Ranhill SAJ

RSAJ P-B102.Rev.4

PIPE LOG

Location : REHAB 2020 - PAKEJ 2 (SP 10)
PN12/7 - JLN KG JAWA ULU

Sheet No. : 1
Date : 8/1/2023

CHAINAGE	EXC. DEPTH

SITE CLEARANCE	sq.m	
BULK EXCAVATION		
All material	cu.m	
Rock	cu.m	
Compact material	cu.m	
FILLING		
Approved Material	cu.m	
Sand	cu.m	
Laterite (150mm)	sq.m	
Sand Bedding	sq.m	
Concrete	cu.m	
TURFING		
Top Soil (50mm)	sq.m	
Turfing	sq.m	

CHAMBER		
Type	Set	Middle

CHIPPING	sq.m	
PILING		
Kayu Bakau	m	
Type of Pile	UPVC	
Size	mm	80
Length (Initial)	m	
Length (Extention)	m	
Join Welding	nos	
Cut Pile (1m)	nos	
Linatex Rubber	sq.m	
MS Strap / Bracing	nos	

Prepared By : Yen

Checked and Approved By :

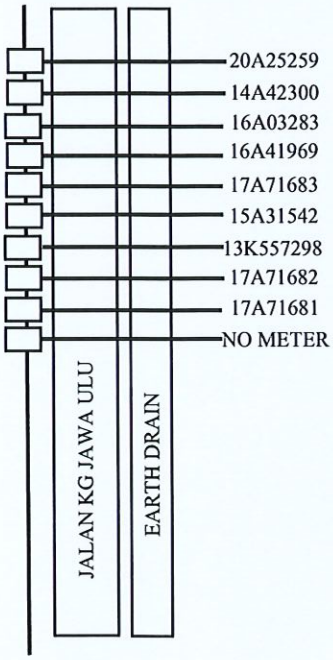
Date :

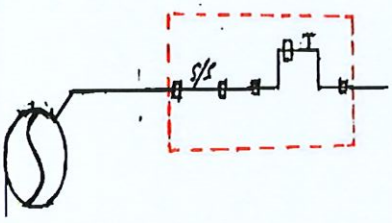
MUHAMAD AZRI BIN ABDUL AZIZ
INSPEKTOR KONTRAK PONTIAN
JABATAN PROJEK
RANHILL SAJ SDN. BHD.
24/1/2023

JALUR CAHAYA SDN BHD 599034-X

SKETCHED DRWG.

Saddle (Type B) 150mm





TRECH EXCAVATION		
a) Depth < 1.8 m	m	
b) Depth > 1.8 m < 3.0 m	m	
c) Road Cutting	m	
d) Track/Gravel/Earth Road	sq.m	
e) Concrete Surface	sq.m	
f) Cross Hedges/Fences/Wall	sq.m	
g) Road Kerb	m	
h) Under water earth drain	sq.m	
i) Under concrete drain/culvert	sq.m	
j) In rock	cu.m	
k) Unsuitable Material	cu.m	
REINSTATEMENT ROAD		
a) Sand Filling	cu.m	
b) Crusher Run	sq.m	
c) Binder Course	sq.m	
d) Wearing Course	sq.m	
e) Milling/Resurfacing	sq.m	
f)Thermoplastic Line Marking	m	

PIPE	DIA.(mm)	NOS	L (m)
HDPE	25	-	84.70
S/STEEL	20	-	27.80

EXPOSE PIPE & SPECIAL		
	m	
	m	
	nos	
	nos	
	nos	
	sq.m	

SPECIAL / FITTINGS		
150MM SADDLE (TYPE B)	nos	
20MM METER STAND	nos	10.00
ELECTRO FUSION (30)	nos	

Comments / Reports

NORSILAWATI BINTI ALI
EKSEKUTIF
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

RSAJ P-B107.Rev.4

Ranhill SAJ

DATA TAPPING DAN PAIP PERHUBUNGAN

PROGRAM PENGGANTIAN PAIP LAMA TAHUN 2020

Nama Projek : PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020

Nama Kontraktor : JALUR CAHAYA SDN BHD

Bil	Pipe	Size (mm)	No. Meter	No Rumah	Comm Pipe (m)		Lintas Parit		Bawah Jalan			Korekan (m2)			Catatan
					PA Pipe (m)	Poly Pipe (m)	GI Sleeve (m)	Stanless Steel (m)	Open Trench (m)	GI Sleeve (m)	Impact Molling	Jubin	Konkrit	Longkang	
1	UPVC	150	20A25259			8.50		2.70							
2	UPVC	150	14A42300			7.50		2.80							
3	UPVC	150	16A03283			9.10		2.60							
4	UPVC	150	16A41969			8.80		3.00							
5	UPVC	150	17A71683			8.50		2.70							
6	UPVC	150	15A31542			11.00		2.80							
7	UPVC	150	13K557298			10.00		2.60							
8	UPVC	150	17A71682			7.50		2.70							
9	UPVC	150	17A71681			6.80		2.70							
10	UPVC	150	NO METER			7.00		3.20							
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
					0.00	84.70	0.00	27.80	0.00	0.00	0.00	0.00	0.00	0.00	

Disediakan Oleh :

Kontraktor
Cop :

JALUR CAHAYA SDN BHD 599034-X

ZAIDI BIN ABDULLAH SATARI
Engineer

Disemak Oleh :

Inspektor Kontrak (D)
Cop :

MUHAMAD AZRI BIN ABDUL AZIZ
INSPEKTOR KONTRAK PONTIAN
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

Disahkan Oleh :

Eksekutif
Cop :

NORSILAWATI BINTI ALI
EKSEKUTIF
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

ELECTRO-FUSION MACHINE REPORT (COMM PIPE)

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 - API API
DATE	8/1/2023 (AHAD)
LOCATION	7 - JALAN KG JAWA ULU

253	08.01.23	10:47	30.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.746 Ohm	5.4 kJ	OK
254	08.01.23	10:54	31.0°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.732 Ohm	5.4 kJ	OK
255	08.01.23	10:59	31.2°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.706 Ohm	5.5 kJ	OK
256	08.01.23	11:06	30.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.744 Ohm	5.4 kJ	OK
257	08.01.23	11:12	30.8°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.710 Ohm	5.5 kJ	OK
258	08.01.23	11:18	31.3°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.707 Ohm	5.5 kJ	OK
259	08.01.23	11:24	31.5°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.745 Ohm	5.4 kJ	OK
260	08.01.23	11:31	32.9°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.750 Ohm	5.4 kJ	OK
261	08.01.23	12:00	33.3°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.708 Ohm	5.5 kJ	OK
262	08.01.23	12:07	34.8°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.743 Ohm	5.4 kJ	OK
263	08.01.23	12:14	34.6°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.760 Ohm	5.4 kJ	OK
264	08.01.23	12:22	35.9°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.736 Ohm	5.4 kJ	OK
265	08.01.23	12:34	35.4°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.732 Ohm	5.4 kJ	OK
266	08.01.23	12:41	36.1°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.735 Ohm	5.5 kJ	OK
267	08.01.23	12:48	35.9°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.687 Ohm	5.5 kJ	OK
268	08.01.23	13:01	36.3°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.744 Ohm	5.4 kJ	OK
269	08.01.23	13:09	36.0°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.735 Ohm	5.4 kJ	OK
270	08.01.23	13:26	35.6°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.742 Ohm	5.4 kJ	OK
271	08.01.23	13:33	36.4°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.765 Ohm	5.4 kJ	OK
272	08.01.23	13:42	37.3°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.750 Ohm	5.5 kJ	OK
273	08.01.23	13:52	40.5°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.729 Ohm	5.4 kJ	OK
274	08.01.23	13:59	41.9°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.783 Ohm	5.4 kJ	OK
275	08.01.23	14:11	43.9°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.752 Ohm	5.4 kJ	OK
276	08.01.23	14:17	41.9°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.725 Ohm	5.4 kJ	OK
277	08.01.23	14:24	42.8°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.744 Ohm	5.4 kJ	OK
278	08.01.23	14:31	41.0°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.740 Ohm	5.4 kJ	OK
279	08.01.23	14:42	42.4°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.736 Ohm	5.4 kJ	OK
280	08.01.23	14:49	41.3°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.769 Ohm	5.4 kJ	OK
281	08.01.23	14:56	41.2°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.759 Ohm	5.4 kJ	OK
282	08.01.23	15:04	42.0°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.731 Ohm	5.4 kJ	OK

Disediakan Oleh:	Disemak Oleh:	Disahkan Oleh:
Kontraktor	Inspektor Kontrak (D)	Eksekutif

JALUR CAHAYA SDN BHD 599034-X

ZAIDI BIN ABDULLAH SATARI
Engineer

MUHAMAD AZRI BIN ABDUL AZIZ
INSPEKTOR KONTRAK PONTIAN
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

NORSILAWATI BINTI ALI
EKSEKUTIF
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

Form No: JK/PT – 05
Rev Date: 23/06/2022

Ranhill SAJ

BORANG PEMERIKSAAN VISUAL (*ELECTRO-FUSION*)

Projek:	Program Penggantian Paip Lama Bagi Tahun 2020 – Pakej 2
Nama :	Sharudin Bin Hassan
No sijil:	199
Nama syarikat:	Jalur Cahaya Sdn Bhd
Tarikh dan Masa:	8/1/2023

KRITERIA	✓	X
KEADAAN TAPAK		
Kawasan tapak berada dalam keadaan yang bersih dan kering.	✓	
KEADAAN BAHAN DAN PERALATAN		
Peralatan berada dalam keadaan baik dan bersih.	✓	
Fittings berada dalam bungkusan? Jika ya, periksa *fittings* jika terdapat kerosakan. Jika tidak, reject *fittings*.	✓	
Peralatan adalah mencukupi sebelum kerja penyambungan dilakukan.	✓	
- *Fusion machine*	✓	
- *Universal pipe cutter*	✓	
- *Rotational pipe scrapper*	✓	
- *Marker*	✓	
- *Isopropyl Alcohol (IPA)*	✓	
- Kain bersih	✓	
- *Generator*	✓	
Kawasan penyambungan paip berada dalam keadaan yang bersih dan kering.	✓	

PEMERIKSAAN SELEPAS PROSES PENYAMBUNGAN *ELECTRO-FUSION*

1) *Melt indicator* pada *fittings* timbul.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 253	✓		Joint No. = 263	✓	
Joint No. = 254	✓		Joint No. = 264	✓	
Joint No. = 255	✓		Joint No. = 265	✓	
Joint No. = 256	✓		Joint No. = 266	✓	
Joint No. = 257	✓		Joint No. = 267	✓	
Joint No. = 258	✓		Joint No. = 268	✓	
Joint No. = 259	✓		Joint No. = 269	✓	
Joint No. = 260	✓		Joint No. = 270	✓	
Joint No. = 261	✓		Joint No. = 271	✓	
Joint No. = 262	✓		Joint No. = 272	✓	

2) Hujung paip dipotong dengan tegak dan lurus.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 253	✓		Joint No. = 263	✓	
Joint No. = 254	✓		Joint No. = 264	✓	
Joint No. = 255	✓		Joint No. = 265	✓	
Joint No. = 256	✓		Joint No. = 266	✓	
Joint No. = 257	✓		Joint No. = 267	✓	
Joint No. = 258	✓		Joint No. = 268	✓	
Joint No. = 259	✓		Joint No. = 269	✓	
Joint No. = 260	✓		Joint No. = 270	✓	
Joint No. = 261	✓		Joint No. = 271	✓	
Joint No. = 262	✓		Joint No. = 272	✓	

3) Penyambungan paip yang dilakukan berada dalam keadaan selari.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 253	/		Joint No. = 263	/	
Joint No. = 254	/		Joint No. = 264	/	
Joint No. = 255	/		Joint No. = 265	/	
Joint No. = 256	/		Joint No. = 266	/	
Joint No. = 257	/		Joint No. = 267	/	
Joint No. = 258	/		Joint No. = 268	/	
Joint No. = 259	/		Joint No. = 269	/	
Joint No. = 260	/		Joint No. = 270	/	
Joint No. = 261	/		Joint No. = 271	/	
Joint No. = 262	/		Joint No. = 272	/	

4) Kawasan yang telah dikikis (*scrapped*) boleh dilihat.

Nama Jalan:

	✓	X		✓	X
Joint No. = 253	/		Joint No. = 263	/	
Joint No. = 254	/		Joint No. = 264	/	
Joint No. = 255	/		Joint No. = 265	/	
Joint No. = 256	/		Joint No. = 266	/	
Joint No. = 257	/		Joint No. = 267	/	
Joint No. = 258	/		Joint No. = 268	/	
Joint No. = 259	/		Joint No. = 269	/	
Joint No. = 260	/		Joint No. = 270	/	
Joint No. = 261	/		Joint No. = 271	/	
Joint No. = 262	/		Joint No. = 272	/	

5) Tanda pada paip (*penetration depth*) tepat dan boleh dilihat.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 253	/		Joint No. = 263	/	
Joint No. = 254	/		Joint No. = 264	/	
Joint No. = 255	/		Joint No. = 265	/	
Joint No. = 256	/		Joint No. = 266	/	
Joint No. = 257	/		Joint No. = 267	/	
Joint No. = 258	/		Joint No. = 268	/	
Joint No. = 259	/		Joint No. = 269	/	
Joint No. = 260	/		Joint No. = 270	/	
Joint No. = 261	/		Joint No. = 271	/	
Joint No. = 262	/		Joint No. = 272	/	

6) Tiada kesan percikan paip yang telah cair atau apa-apa kerosakan pada permukaan luar paip yang telah disambung.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 253	/		Joint No. = 263	/	
Joint No. = 254	/		Joint No. = 264	/	
Joint No. = 255	/		Joint No. = 265	/	
Joint No. = 256	/		Joint No. = 266	/	
Joint No. = 257	/		Joint No. = 267	/	
Joint No. = 258	/		Joint No. = 268	/	
Joint No. = 259	/		Joint No. = 269	/	
Joint No. = 260	/		Joint No. = 270	/	
Joint No. = 261	/		Joint No. = 271	/	
Joint No. = 262	/		Joint No. = 272	/	

7) Paip dan *fittings* yang disambung dibiarkan untuk sejuk mengikut tempoh masa yang ditetapkan.

Nama Jalan: PN 12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 253	/		Joint No. = 263	/	
Joint No. = 254	/		Joint No. = 264	/	
Joint No. = 255	/		Joint No. = 265	/	
Joint No. = 256	/		Joint No. = 266	/	
Joint No. = 257	/		Joint No. = 267	/	
Joint No. = 258	/		Joint No. = 268	/	
Joint No. = 259	/		Joint No. = 269	/	
Joint No. = 260	/		Joint No. = 270	/	
Joint No. = 261	/		Joint No. = 271	/	
Joint No. = 262	/		Joint No. = 272	/	

ADAKAH PENYAMBUNGAN *ELECTRO-FUSION* INI DITERIMA?
(Jika TIDAK, sila nyatakan ulasan di ruangan yang disediakan)

	✓	X		✓	X
Joint No. = 253	/		Joint No. = 263	/	
Joint No. = 254	/		Joint No. = 264	/	
Joint No. = 255	/		Joint No. = 265	/	
Joint No. = 256	/		Joint No. = 266	/	
Joint No. = 257	/		Joint No. = 267	/	
Joint No. = 258	/		Joint No. = 268	/	
Joint No. = 259	/		Joint No. = 269	/	
Joint No. = 260	/		Joint No. = 270	/	
Joint No. = 261	/		Joint No. = 271	/	
Joint No. = 262	/		Joint No. = 272	/	

Ulasan:

.....

.....

.....

Dikendalikan oleh:	Diperiksa dan disahkan oleh:
Tandatangan:	Tandatangan:
Nama Kontraktor: SHAREUDIN B. HASSAN	Nama Kontrak Inspektor: MUHAMAD AZRI BIN ABDUL AZIZ INSPEKTOR KONTRAK PONTIAN
No. Anggota: 199	No. Anggota: JABATAN PROJEK RANHILL SAJ SDN. BHD.
Tarikh:	Tarikh: 8/1/2023

**Dokumen yang perlu diserahkan kepada *Contract Inspector*: Gambar penyambungan dan laporan daripada *Data Logger*.

Form No: JK/PT – 05
Rev Date: 23/06/2022

Ranhill SAJ

BORANG PEMERIKSAAN VISUAL (*ELECTRO-FUSION*)

Projek:	Program Penggantian Paip Lama Bagi Tahun 2020 - Pakej 2
Nama :	Sharudin Bin Hussen
No sijil:	199
Nama syarikat:	Jalur Cahaya Sdn Bhd
Tarikh dan Masa:	8/1/2023

KRITERIA	✓	X
KEADAAN TAPAK		
Kawasan tapak berada dalam keadaan yang bersih dan kering.	/	
KEADAAN BAHAN DAN PERALATAN		
Peralatan berada dalam keadaan baik dan bersih.	/	
Fittings berada dalam bungkusan? Jika ya, periksa *fittings* jika terdapat kerosakan. Jika tidak, reject *fittings*.	/	
Peralatan adalah mencukupi sebelum kerja penyambungan dilakukan.	/	
- *Fusion machine*	/	
- *Universal pipe cutter*	/	
- *Rotational pipe scrapper*	/	
- *Marker*	/	
- *Isopropyl Alcohol (IPA)*	/	
- Kain bersih	/	
- *Generator*	/	
Kawasan penyambungan paip berada dalam keadaan yang bersih dan kering.	/	

PEMERIKSAAN SELEPAS PROSES PENYAMBUNGAN *ELECTRO-FUSION*

1) *Melt indicator* pada *fittings* timbul.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 273	/		Joint No. =		
Joint No. = 274	/		Joint No. =		
Joint No. = 275	/		Joint No. =		
Joint No. = 276	/		Joint No. =		
Joint No. = 277	/		Joint No. =		
Joint No. = 278	/		Joint No. =		
Joint No. = 279	/		Joint No. =		
Joint No. = 280	/		Joint No. =		
Joint No. = 281	/		Joint No. =		
Joint No. = 282	/		Joint No. =		

2) Hujung paip dipotong dengan tegak dan lurus.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 273	/		Joint No. =		
Joint No. = 274	/		Joint No. =		
Joint No. = 275	/		Joint No. =		
Joint No. = 276	/		Joint No. =		
Joint No. = 277	/		Joint No. =		
Joint No. = 278	/		Joint No. =		
Joint No. = 279	/		Joint No. =		
Joint No. = 280	/		Joint No. =		
Joint No. = 281	/		Joint No. =		
Joint No. = 282	/		Joint No. =		

3) Penyambungan paip yang dilakukan berada dalam keadaan selari.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 273	/		Joint No. =		
Joint No. = 274	/		Joint No. =		
Joint No. = 275	/		Joint No. =		
Joint No. = 276	/		Joint No. =		
Joint No. = 277	/		Joint No. =		
Joint No. = 278	/		Joint No. =		
Joint No. = 279	/		Joint No. =		
Joint No. = 280	/		Joint No. =		
Joint No. = 281	/		Joint No. =		
Joint No. = 282	/		Joint No. =		

4) Kawasan yang telah dikikis (*scrapped*) boleh dilihat.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 273	/		Joint No. =		
Joint No. = 274	/		Joint No. =		
Joint No. = 275	/		Joint No. =		
Joint No. = 276	/		Joint No. =		
Joint No. = 277	/		Joint No. =		
Joint No. = 278	/		Joint No. =		
Joint No. = 279	/		Joint No. =		
Joint No. = 280	/		Joint No. =		
Joint No. = 281	/		Joint No. =		
Joint No. = 282	/		Joint No. =		

5) Tanda pada paip (*penetration depth*) tepat dan boleh dilihat.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 273	/		Joint No. =		
Joint No. = 274	/		Joint No. =		
Joint No. = 275	/		Joint No. =		
Joint No. = 276	/		Joint No. =		
Joint No. = 277	/		Joint No. =		
Joint No. = 278	/		Joint No. =		
Joint No. = 279	/		Joint No. =		
Joint No. = 280	/		Joint No. =		
Joint No. = 281	/		Joint No. =		
Joint No. = 282	/		Joint No. =		

6) Tiada kesan percikan paip yang telah cair atau apa-apa kerosakan pada permukaan luar paip yang telah disambung.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 273	/		Joint No. =		
Joint No. = 274	/		Joint No. =		
Joint No. = 275	/		Joint No. =		
Joint No. = 276	/		Joint No. =		
Joint No. = 277	/		Joint No. =		
Joint No. = 278	/		Joint No. =		
Joint No. = 279	/		Joint No. =		
Joint No. = 280	/		Joint No. =		
Joint No. = 281	/		Joint No. =		
Joint No. = 282	/		Joint No. =		

7) Paip dan *fittings* yang disambung dibiarkan untuk sejuk mengikut tempoh masa yang ditetapkan.

Nama Jalan: PN12 / 7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 273	/		Joint No. =		
Joint No. = 274	/		Joint No. =		
Joint No. = 275	/		Joint No. =		
Joint No. = 276	/		Joint No. =		
Joint No. = 277	/		Joint No. =		
Joint No. = 278	/		Joint No. =		
Joint No. = 279	/		Joint No. =		
Joint No. = 280	/		Joint No. =		
Joint No. = 281	/		Joint No. =		
Joint No. = 282	/		Joint No. =		

ADAKAH PENYAMBUNGAN *ELECTRO-FUSION* INI DITERIMA?
(Jika TIDAK, sila nyatakan ulasan di ruangan yang disediakan)

	✓	X		✓	X
Joint No. = 273	/		Joint No. =		
Joint No. = 274	/		Joint No. =		
Joint No. = 275	/		Joint No. =		
Joint No. = 276	/		Joint No. =		
Joint No. = 277	/		Joint No. =		
Joint No. = 278	/		Joint No. =		
Joint No. = 279	/		Joint No. =		
Joint No. = 280	/		Joint No. =		
Joint No. = 281	/		Joint No. =		
Joint No. = 282	/		Joint No. =		

Ulasan:

.....

.....

.....

Dikendalikan oleh:	Diperiksa dan disahkan oleh:
Tandatangan:	Tandatangan:
Nama Kontraktor: SHAHRUDIN B. HASSAN	Nama Kontrak Inspektor: MUHAMAD AZRI BIN ABDUL AZIZ INSPEKTOR KONTRAK PONTIAN
No. Anggota: 199	No. Anggota: JABATAN PROJEK RANHILL SAJ SDN. BHD.
Tarikh: 08/01/2023	Tarikh: 8/1/2023

**Dokumen yang perlu diserahkan kepada *Contract Inspector*: Gambar penyambungan dan laporan daripada *Data Logger*.

JALUR GAHAYA SDN BHD 599034-X

ZAIDI BIN ABDULLAH SATARI
Engineer

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 20A2559
	No. rumah :
	Semasa kerja (EF)
	Joint number: 253

REMARKS	No. meter : SAJ 20A2559
	No. rumah :
	Semasa kerja (EF)
	Joint number: 254

REMARKS	No. meter : SAJ 20A2559
	No. rumah :
	Semasa kerja (EF)
	Joint number: 261

REMARKS	No. meter : SAJ 20A2559
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 20A2559
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 20A2559
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 20A2559
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 14A42300
	No. rumah :
	Semasa kerja (EF)
	Joint number: 255

REMARKS	No. meter : SAJ 14A42300
	No. rumah :
	Semasa kerja (EF)
	Joint number: 256

REMARKS	No. meter : SAJ 14A42300
	No. rumah :
	Semasa kerja (EF)
	Joint number: 262

REMARKS	No. meter : SAJ 14A42300
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 14A42300
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 14A42300
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : SAJ 14A42300
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 16A03283
	No. rumah :
	Semasa kerja (EF)
	Joint number: 257

REMARKS	No. meter : SAJ 16A03283
	No. rumah :
	Semasa kerja (EF)
	Joint number: 258

REMARKS	No. meter : SAJ 16A03283
	No. rumah :
	Semasa kerja (EF)
	Joint number: 263

REMARKS	No. meter : SAJ 16A03283
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 16A03283
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 16A03283
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 16A03283
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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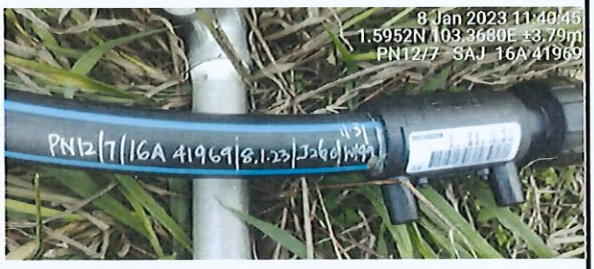
COMMUNICATION PIPE WORKS

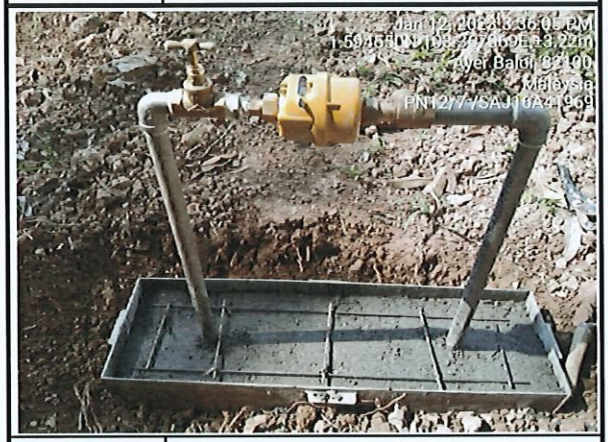
SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 16A41969
	No. rumah :
	Semasa kerja (EF)
	Joint number: 259



REMARKS	No. meter : SAJ 16A41969
	No. rumah :
	Semasa kerja (EF)
	Joint number: 260

REMARKS	No. meter : SAJ 16A41969
	No. rumah :
	Semasa kerja (EF)
	Joint number: 264



REMARKS	No. meter : SAJ 16A41969
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 16A41969
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 16A41969
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : SAJ 16A41969
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 17A71683
	No. rumah :
	Semasa kerja (EF)
	Joint number: 265

REMARKS	No. meter : SAJ 17A71683
	No. rumah :
	Semasa kerja (EF)
	Joint number: 266

REMARKS	No. meter : SAJ 17A71683
	No. rumah :
	Semasa kerja (EF)
	Joint number: 267

REMARKS	No. meter : SAJ 17A71683
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 17A71683
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 17A71683
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 17A71683
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 15A31542
	No. rumah :
	Semasa kerja (EF)
	Joint number: 268

REMARKS	No. meter : SAJ 15A31542
	No. rumah :
	Semasa kerja (EF)
	Joint number: 269

REMARKS	No. meter : SAJ 15A31542
	No. rumah :
	Semasa kerja (EF)
	Joint number: 270

REMARKS	No. meter : SAJ 15A31542
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 15A31542
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 15A31542
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 15A31542
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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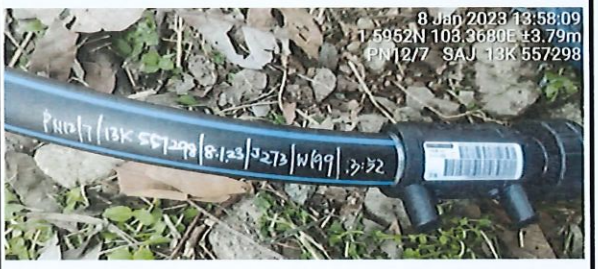
COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 13K557298
	No. rumah :
	Semasa kerja (EF)
	Joint number: 271

REMARKS	No. meter : SAJ 13K557298
	No. rumah :
	Semasa kerja (EF)
	Joint number: 272



REMARKS	No. meter : SAJ 13K557298
	No. rumah :
	Semasa kerja (EF)
	Joint number: 273

REMARKS	No. meter : SAJ 13K557298
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 13K557298
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 13K557298
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 13K557298
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 17A71682
	No. rumah :
	Semasa kerja (EF)
	Joint number: 274

REMARKS	No. meter : SAJ 17A71682
	No. rumah :
	Semasa kerja (EF)
	Joint number: 275

REMARKS	No. meter : SAJ 17A71682
	No. rumah :
	Semasa kerja (EF)
	Joint number: 276

REMARKS	No. meter : SAJ 17A71682
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 17A71682
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 17A71682
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 17A71682
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 17A71681
	No. rumah :
	Semasa kerja (EF)
	Joint number: 277

REMARKS	No. meter : SAJ 17A71681
	No. rumah :
	Semasa kerja (EF)
	Joint number: 278

REMARKS	No. meter : SAJ 17A71681
	No. rumah :
	Semasa kerja (EF)
	Joint number: 279

REMARKS	No. meter : SAJ 17A71681
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 17A71681
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 17A71681
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 17A71681
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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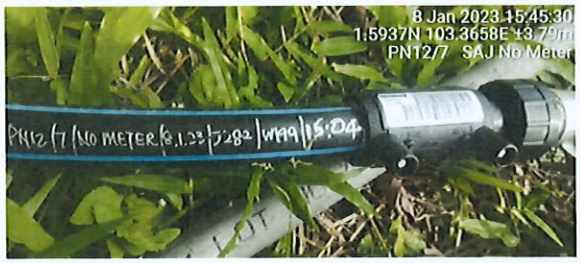
COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : NO METER
	No. rumah :
	Semasa kerja (EF)
	Joint number: 280

REMARKS	No. meter : NO METER
	No. rumah :
	Semasa kerja (EF)
	Joint number: 281



REMARKS	No. meter : NO METER
	No. rumah :
	Semasa kerja (EF)
	Joint number: 282

REMARKS	No. meter : NO METER
	No. rumah :
	Selepas kerja

REMARKS	No. meter : NO METER
	No. rumah :
	Selepas kerja

REMARKS	No. meter : NO METER
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	8/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : NO METER
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

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RSAJ P-B102.Rev.4

PIPE LOG

Location : REHAB 2020 - PAKEJ 2 (SP 10)
PN12/7 - JLN KG JAWA ULU

Sheet No. : 2
Date : 9/1/2023

CHAINAGE	EXC. DEPTH

SITE CLEARANCE	sq.m	
BULK EXCAVATION		
All material	cu.m	
Rock	cu.m	
Compact material	cu.m	
FILLING		
Approved Material	cu.m	
Sand	cu.m	
Laterite (150mm)	sq.m	
Sand Bedding	sq.m	
Concrete	cu.m	
TURFING		
Top Soil (50mm)	sq.m	
Turfing	sq.m	
CHAMBER		
Type	Set	Middle
CHIPPING	sq.m	
PILING		
Kayu Bakau	m	
Type of Pile	UPVC	
Size	mm	80
Length (Initial)	m	
Length (Extention)	m	
Join Welding	nos	
Cut Pile (1m)	nos	
Linatex Rubber	sq.m	
MS Strap / Bracing	nos	

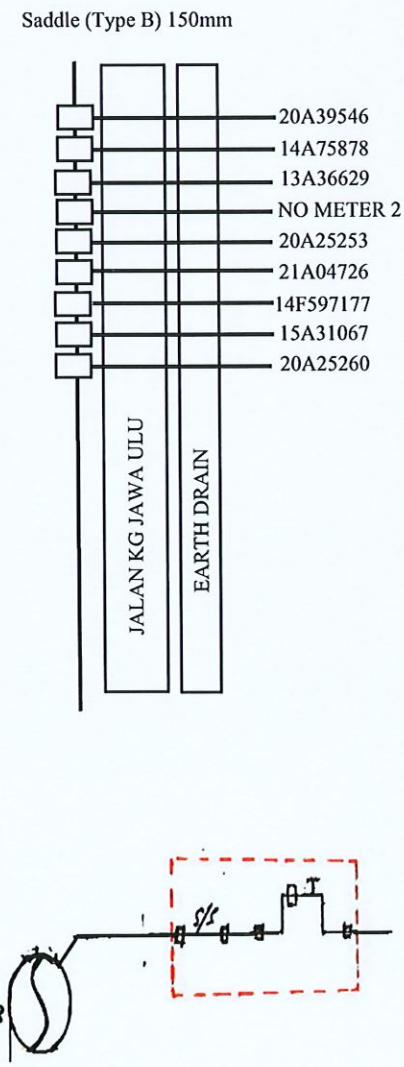
Prepared By :

Checked and Approved By : 24/1/2023

MUHAMAD AZRI BIN ABDUL AZIZ
INSPEKTOR KONTRAK PONTIAN
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

Date :

SKETCHED DRWG.



TRECH EXCAVATION		
a) Depth < 1.8 m	m	
b) Depth > 1.8 m < 3.0 m	m	
c) Road Cutting	m	
d) Track/Gravel/Earth Road	sq.m	
e) Concrete Surface	sq.m	
f) Cross Hedges/Fences/Wall	sq.m	
g) Road Kerb	m	
h) Under water earth drain	sq.m	
i) Under concrete drain/culvert	sq.m	
j) In rock	cu.m	
k) Unsuitable Material	cu.m	
REINSTATEMENT ROAD		
a) Sand Filling	cu.m	
b) Crusher Run	sq.m	
c) Binder Course	sq.m	
d) Wearing Course	sq.m	
e) Milling/Resurfacing	sq.m	
f)Thermoplastic Line Marking	m	

PIPE	DIA.(mm)	NOS	L (m)
HDPE	25	-	62.80
S/STEEL	20	-	26.50

EXPOSE PIPE & SPECIAL		
	m	
	m	
	nos	
	nos	
	nos	
	sq.m	
SPECIAL / FITTINGS		
150MM SADDLE (TYPE B)	nos	
20MM METER STAND	nos	9.00
ELECTRO FUSION (27)	nos	

Comments / Reports

NORGIYAWATI BINTI ALI
EKSEKUTIF
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

ZAIDI BIN ABDULLAH SATARI
Engineer

ALUR CAHAYA SDN BHD 599034-X

Ranhill SAJ

DATA TAPPING DAN PAIP PERHUBUNGAN

PROGRAM PENGGANTIAN PAIP LAMA TAHUN 2020

Nama Projek : PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020

Nama Kontraktor : JALUR CAHAYA SDN BHD

Bil	Pipe	Size (mm)	No. Meter	No Rumah	Comm Pipe (m)		Lintas Parit		Bawah Jalan			Korekan (m2)			Catatan
					PA Pipe (m)	Poly Pipe (m)	GI Sleeve (m)	Stanless Steel (m)	Open Trench (m)	GI Sleeve (m)	Impact Molling	Jubin	Konkrit	Longkang	
1	UPVC	150	20A39546			9.00		2.80							
2	UPVC	150	14A75878			7.00		3.20							
3	UPVC	150	13A36629			8.00		3.20							
4	UPVC	150	NO METER 2			12.00		2.70							
5	UPVC	150	20A25253			6.60		3.20							
6	UPVC	150	21A04726			5.70		3.20							
7	UPVC	150	14F597177			6.50		3.20							
8	UPVC	150	15A31067			3.00		2.50							
9	UPVC	150	20A25260			5.00		2.50							
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
					0.00	62.80	0.00	26.50	0.00	0.00	0.00	0.00	0.00	0.00	

Disediakan Oleh :

Kontraktor
Cop :

Disemak Oleh :

Inspektor Kontrak (D)
Cop :
MUHAMAD AZRI BIN ABDUL AZIZ
INSPEKTOR KONTRAK PONTIAN
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

Disahkan Oleh :

Eksekutif
Cop :
NORSILAWATI BINTI ALI
EKSEKUTIF
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

ELECTRO-FUSION MACHINE REPORT (COMM PIPE)

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 - API API
DATE	9/1/2023 (ISNIN)
LOCATION	7 - JALAN KG JAWA ULU

283	09.01.23	10:21	29.5°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.746 Ohm	5.4 kJ	OK
284	09.01.23	10:27	29.6°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.735 Ohm	5.4 kJ	OK
285	09.01.23	10:33	29.5°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.706 Ohm	5.5 kJ	OK
286	09.01.23	11:19	30.4°C	FR	CPL	25 mm	28.0 V	0000 s/0027 s	0.00	0.0 kJ	FAIL
287	09.01.23	11:21	30.4°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.743 Ohm	5.4 kJ	OK
288	09.01.23	11:28	30.5°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.755 Ohm	5.4 kJ	OK
289	09.01.23	11:34	30.5°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.714 Ohm	5.4 kJ	OK
290	09.01.23	11:40	30.9°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.717 Ohm	5.4 kJ	OK
291	09.01.23	11:46	31.1°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.726 Ohm	5.4 kJ	OK
292	09.01.23	11:52	31.3°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.731 Ohm	5.4 kJ	OK
293	09.01.23	11:58	32.0°C	FR	CPL	25 mm	28.0 V	0000 s/0027 s	0.00	0.0 kJ	FAIL
294	09.01.23	12:00	31.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.743 Ohm	5.4 kJ	OK
295	09.01.23	12:06	31.6°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.741 Ohm	5.5 kJ	OK
296	09.01.23	12:13	31.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.720 Ohm	5.4 kJ	OK
297	09.01.23	12:21	31.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.741 Ohm	5.4 kJ	OK
298	09.01.23	12:28	31.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.733 Ohm	5.4 kJ	OK
299	09.01.23	12:34	32.0°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.751 Ohm	5.4 kJ	OK
300	09.01.23	12:44	32.1°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.731 Ohm	5.4 kJ	OK
301	09.01.23	12:51	31.8°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.726 Ohm	5.4 kJ	OK
302	09.01.23	12:57	31.8°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.734 Ohm	5.4 kJ	OK
303	09.01.23	13:08	31.9°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.719 Ohm	5.4 kJ	OK
304	09.01.23	13:17	31.4°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.737 Ohm	5.4 kJ	OK
305	09.01.23	13:26	31.1°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.736 Ohm	5.4 kJ	OK
306	09.01.23	13:38	30.9°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.757 Ohm	5.4 kJ	OK
307	09.01.23	13:44	31.1°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.757 Ohm	5.4 kJ	OK
308	09.01.23	13:51	31.6°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.733 Ohm	5.4 kJ	OK
309	09.01.23	13:57	31.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.719 Ohm	5.4 kJ	OK
310	09.01.23	14:05	32.2°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.740 Ohm	5.4 kJ	OK
311	09.01.23	14:09	32.1°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.736 Ohm	5.4 kJ	OK

Disediakan Oleh:

Kontraktor

ZAIDI BIN ABDULLAH SATARI
Engineer

CAHAYA SDN BHD JALUR 09034-X

Disemak Oleh:

Inspektor Kontrak (D)

MUHAMAD AZRI BIN ABDUL AZIZ
INSPEKTOR KONTRAK PONTIAN
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

Disahkan Oleh:

Eksekutif

NORSILAWATI BINTI ALI
EK EKUTIF
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

Ranhill SAJ

Form No: JK/PT – 05
Rev Date: 23/06/2022

BORANG PEMERIKSAAN VISUAL (*ELECTRO-FUSION*)

Projek:	Program Penggantian Paip Lama Bagi Tahun 2020 – Pakej 2
Nama :	Sharudin Bin Hassan
No sijil:	199
Nama syarikat:	Jalur Cahaya Sdn Bhd
Tarikh dan Masa:	9/1/2023

KRITERIA	✓	X
KEADAAN TAPAK		
Kawasan tapak berada dalam keadaan yang bersih dan kering.	/	
KEADAAN BAHAN DAN PERALATAN		
Peralatan berada dalam keadaan baik dan bersih.	/	
Fittings berada dalam bungkusan? Jika ya, periksa *fittings* jika terdapat kerosakan. Jika tidak, reject *fittings*.	/	
Peralatan adalah mencukupi sebelum kerja penyambungan dilakukan.	/	
- *Fusion machine*	/	
- *Universal pipe cutter*	/	
- *Rotational pipe scrapper*	/	
- *Marker*	/	
- *Isopropyl Alcohol (IPA)*	/	
- Kain bersih	/	
- *Generator*	/	
Kawasan penyambungan paip berada dalam keadaan yang bersih dan kering.	/	

PEMERIKSAAN SELEPAS PROSES PENYAMBUNGAN *ELECTRO-FUSION*

1) *Melt indicator* pada *fittings* timbul.

Nama Jalan: PN12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 283	/		Joint No. = 295	/	
Joint No. = 284	/		Joint No. = 296	/	
Joint No. = 285	/		Joint No. = 297	/	
Joint No. = 287	/		Joint No. = 298	/	
Joint No. = 288	/		Joint No. = 299	/	
Joint No. = 289	/		Joint No. = 300	/	
Joint No. = 290	/		Joint No. = 301	/	
Joint No. = 291	/		Joint No. = 302	/	
Joint No. = 292	/		Joint No. = 303	/	
Joint No. = 294	/		Joint No. = 304	/	

2) Hujung paip dipotong dengan tegak dan lurus.

Nama Jalan: PN12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 283	/		Joint No. = 295	/	
Joint No. = 284	/		Joint No. = 296	/	
Joint No. = 285	/		Joint No. = 297	/	
Joint No. = 287	/		Joint No. = 298	/	
Joint No. = 288	/		Joint No. = 299	/	
Joint No. = 289	/		Joint No. = 300	/	
Joint No. = 290	/		Joint No. = 301	/	
Joint No. = 291	/		Joint No. = 302	/	
Joint No. = 292	/		Joint No. = 303	/	
Joint No. = 294	/		Joint No. = 304	/	

3) Penyambungan paip yang dilakukan berada dalam keadaan selari.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 283	/		Joint No. = 295	/	
Joint No. = 284	/		Joint No. = 296	/	
Joint No. = 285	/		Joint No. = 297	/	
Joint No. = 287	/		Joint No. = 298	/	
Joint No. = 288	/		Joint No. = 299	/	
Joint No. = 289	/		Joint No. = 300	/	
Joint No. = 290	/		Joint No. = 301	/	
Joint No. = 291	/		Joint No. = 302	/	
Joint No. = 292	/		Joint No. = 303	/	
Joint No. = 294	/		Joint No. = 304	/	

4) Kawasan yang telah dikikis (*scrapped*) boleh dilihat.

Nama Jalan:

	✓	X		✓	X
Joint No. = 283	/		Joint No. = 295	/	
Joint No. = 284	/		Joint No. = 296	/	
Joint No. = 285	/		Joint No. = 297	/	
Joint No. = 287	/		Joint No. = 298	/	
Joint No. = 288	/		Joint No. = 299	/	
Joint No. = 289	/		Joint No. = 300	/	
Joint No. = 290	/		Joint No. = 301	/	
Joint No. = 291	/		Joint No. = 302	/	
Joint No. = 292	/		Joint No. = 303	/	
Joint No. = 294	/		Joint No. = 304	/	

5) Tanda pada paip (*penetration depth*) tepat dan boleh dilihat.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 283	/		Joint No. = 295	/	
Joint No. = 284	/		Joint No. = 296	/	
Joint No. = 285	/		Joint No. = 297	/	
Joint No. = 287	/		Joint No. = 298	/	
Joint No. = 288	/		Joint No. = 299	/	
Joint No. = 289	/		Joint No. = 300	/	
Joint No. = 290	/		Joint No. = 301	/	
Joint No. = 291	/		Joint No. = 302	/	
Joint No. = 292	/		Joint No. = 303	/	
Joint No. = 294	/		Joint No. = 304	/	

6) Tiada kesan percikan paip yang telah cair atau apa-apa kerosakan pada permukaan luar paip yang telah disambung.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 283	/		Joint No. = 295	/	
Joint No. = 284	/		Joint No. = 296	/	
Joint No. = 285	/		Joint No. = 297	/	
Joint No. = 287	/		Joint No. = 298	/	
Joint No. = 288	/		Joint No. = 299	/	
Joint No. = 289	/		Joint No. = 300	/	
Joint No. = 290	/		Joint No. = 301	/	
Joint No. = 291	/		Joint No. = 302	/	
Joint No. = 292	/		Joint No. = 303	/	
Joint No. = 294	/		Joint No. = 304	/	

7) Paip dan *fittings* yang disambung dibiarkan untuk sejuk mengikut tempoh masa yang ditetapkan.

Nama Jalan: PN12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 283	✓		Joint No. = 295	✓	
Joint No. = 284	✓		Joint No. = 296	✓	
Joint No. = 285	✓		Joint No. = 297	✓	
Joint No. = 287	✓		Joint No. = 298	✓	
Joint No. = 288	✓		Joint No. = 299	✓	
Joint No. = 289	✓		Joint No. = 300	✓	
Joint No. = 290	✓		Joint No. = 301	✓	
Joint No. = 291	✓		Joint No. = 302	✓	
Joint No. = 292	✓		Joint No. = 303	✓	
Joint No. = 294	✓		Joint No. = 304	✓	

ADAKAH PENYAMBUNGAN *ELECTRO-FUSION* INI DITERIMA?
(Jika TIDAK, sila nyatakan ulasan di ruangan yang disediakan)

	✓	X		✓	X
Joint No. = 283	✓		Joint No. = 295	✓	
Joint No. = 284	✓		Joint No. = 296	✓	
Joint No. = 285	✓		Joint No. = 297	✓	
Joint No. = 287	✓		Joint No. = 298	✓	
Joint No. = 288	✓		Joint No. = 299	✓	
Joint No. = 289	✓		Joint No. = 300	✓	
Joint No. = 290	✓		Joint No. = 301	✓	
Joint No. = 291	✓		Joint No. = 302	✓	
Joint No. = 292	✓		Joint No. = 303	✓	
Joint No. = 294	✓		Joint No. = 304	✓	

Ulasan:

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Dikendalikan oleh:	Diperiksa dan disahkan oleh:
Tandatangan:	Tandatangan:
Nama Kontraktor: SHAHRUDIN B. HASSAN	Nama Kontrak Inspektor: MUHAMAD AZRI BIN ABDUL AZIZ INSPEKTOR KONTRAK PONTIAN
No. Anggota: 199	No. Anggota: JABATAN PROJEK RANHILL SAJ SDN. BHD.
Tarikh: 09.01.2023	Tarikh: 9/1/2023

**Dokumen yang perlu diserahkan kepada *Contract Inspector*: Gambar penyambungan dan laporan daripada *Data Logger*.

CAHAYA SDN BHD JALUR 599034-X

ZAIDI BIN ABDULLAH SATARI
Engineer

Form No: JK/PT – 05
Rev Date: 23/06/2022

Ranhill SAJ

BORANG PEMERIKSAAN VISUAL (*ELECTRO-FUSION*)

Projek:	Program Penggantian Paip Lama Bagi Tahun 2020 - Pakej 2
Nama :	Sharudin Bin Hassan
No sijil:	199
Nama syarikat:	Jalur Cahaya Sdn Bhd
Tarikh dan Masa:	9/1/2023

KRITERIA	✓	X
KEADAAN TAPAK		
Kawasan tapak berada dalam keadaan yang bersih dan kering.	/	
KEADAAN BAHAN DAN PERALATAN		
Peralatan berada dalam keadaan baik dan bersih.	/	
Fittings berada dalam bungkusan? Jika ya, periksa *fittings* jika terdapat kerosakan. Jika tidak, reject *fittings*.	/	
Peralatan adalah mencukupi sebelum kerja penyambungan dilakukan.	/	
- *Fusion machine*	/	
- *Universal pipe cutter*	/	
- *Rotational pipe scrapper*	/	
- *Marker*	/	
- *Isopropyl Alcohol (IPA)*	/	
- Kain bersih	/	
- *Generator*		
Kawasan penyambungan paip berada dalam keadaan yang bersih dan kering.	/	

PEMERIKSAAN SELEPAS PROSES PENYAMBUNGAN *ELECTRO-FUSION*

1) *Melt indicator* pada *fittings* timbul.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 305	/		Joint No. =		
Joint No. = 306	/		Joint No. =		
Joint No. = 307	/		Joint No. =		
Joint No. = 308	/		Joint No. =		
Joint No. = 309	/		Joint No. =		
Joint No. = 310	/		Joint No. =		
Joint No. = 311	/		Joint No. =		
Joint No. =			Joint No. =		
Joint No. =			Joint No. =		
Joint No. =			Joint No. =		

2) Hujung paip dipotong dengan tegak dan lurus.

Nama Jalan: PN12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 305	/		Joint No. =		
Joint No. = 306	/		Joint No. =		
Joint No. = 307	/		Joint No. =		
Joint No. = 308	/		Joint No. =		
Joint No. = 309	/		Joint No. =		
Joint No. = 310	/		Joint No. =		
Joint No. = 311	/		Joint No. =		
Joint No. =			Joint No. =		
Joint No. =			Joint No. =		
Joint No. =			Joint No. =		

3) Penyambungan paip yang dilakukan berada dalam keadaan selari.

Nama Jalan: PN12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 305	/		Joint No. =		
Joint No. = 306	/		Joint No. =		
Joint No. = 307	/		Joint No. =		
Joint No. = 308	/		Joint No. =		
Joint No. = 309	/		Joint No. =		
Joint No. = 310	/		Joint No. =		
Joint No. = 311	/		Joint No. =		
Joint No. =			Joint No. =		
Joint No. =			Joint No. =		
Joint No. =			Joint No. =		

4) Kawasan yang telah dikikis (*scrapped*) boleh dilihat.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 305	/		Joint No. =		
Joint No. = 306	/		Joint No. =		
Joint No. = 307	/		Joint No. =		
Joint No. = 308	/		Joint No. =		
Joint No. = 309	/		Joint No. =		
Joint No. = 310	/		Joint No. =		
Joint No. = 311	/		Joint No. =		
Joint No. =			Joint No. =		
Joint No. =			Joint No. =		
Joint No. =			Joint No. =		

5) Tanda pada paip (*penetration depth*) tepat dan boleh dilihat.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 305	/		Joint No. =		
Joint No. = 306	/		Joint No. =		
Joint No. = 307	/		Joint No. =		
Joint No. = 308	/		Joint No. =		
Joint No. = 309	/		Joint No. =		
Joint No. = 310	/		Joint No. =		
Joint No. = 311	/		Joint No. =		
Joint No. =			Joint No. =		
Joint No. =			Joint No. =		
Joint No. =			Joint No. =		

6) Tiada kesan percikan paip yang telah cair atau apa-apa kerosakan pada permukaan luar paip yang telah disambung.

Nama Jalan: PN12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 305	/		Joint No. =		
Joint No. = 306	/		Joint No. =		
Joint No. = 307	/		Joint No. =		
Joint No. = 308	/		Joint No. =		
Joint No. = 309	/		Joint No. =		
Joint No. = 310	/		Joint No. =		
Joint No. = 311	/		Joint No. =		
Joint No. =			Joint No. =		
Joint No. =			Joint No. =		
Joint No. =			Joint No. =		

7) Paip dan *fittings* yang disambung dibiarkan untuk sejuk mengikut tempoh masa yang ditetapkan.					
Nama Jalan: PN 12/7 - JLN KG JAWA ULU					
	✓	X		✓	X
Joint No. = 305	/		Joint No. =		
Joint No. = 306	/		Joint No. =		
Joint No. = 307	/		Joint No. =		
Joint No. = 308	/		Joint No. =		
Joint No. = 309	/		Joint No. =		
Joint No. = 310	/		Joint No. =		
Joint No. = 311	/		Joint No. =		
Joint No. =			Joint No. =		
Joint No. =			Joint No. =		
Joint No. =			Joint No. =		
ADAKAH PENYAMBUNGAN *ELECTRO-FUSION* INI DITERIMA? (Jika TIDAK, sila nyatakan ulasan di ruangan yang disediakan)					
	✓	X		✓	X
Joint No. = 305	/		Joint No. =		
Joint No. = 306	/		Joint No. =		
Joint No. = 307	/		Joint No. =		
Joint No. = 308	/		Joint No. =		
Joint No. = 309	/		Joint No. =		
Joint No. = 310	/		Joint No. =		
Joint No. = 311	/		Joint No. =		
Joint No. =			Joint No. =		
Joint No. =			Joint No. =		
Joint No. =			Joint No. =		

Ulasan:

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.....

.....

Dikendalikan oleh:	Diperiksa dan disahkan oleh:
Tandatangan:	Tandatangan:
Nama Kontraktor: SHAHUDIN B. HASSAN	Nama Kontrak Inspektor: MUHAMAD AZRI BIN ABDUL AZIZ INSPEKTOR KONTRAK PONTIAN
No. Anggota: 199	No. Anggota: JABATAN PROJEK RANHILL SAJ SDN. BHD.
Tarikh: 09.01.2023	Tarikh: 9/1/2023

**Dokumen yang perlu disahkan kepada *Contract Inspector*: Gambar penyambungan dan laporan daripada *Data Logger*.

JALUR CAHAYA SDN BHD 599034-X

ZAIDI BIN ABDULLAH SATARI
Engineer

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 20A39546
	No. rumah :
	Semasa kerja (EF)
	Joint number: 283

REMARKS	No. meter : SAJ 20A39546
	No. rumah :
	Semasa kerja (EF)
	Joint number: 284

REMARKS	No. meter : SAJ 20A39546
	No. rumah :
	Semasa kerja (EF)
	Joint number: 285

REMARKS	No. meter : SAJ 20A39546
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 20A39546
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 20A39546
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 20A39546
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 14A75878
	No. rumah :
	Semasa kerja (EF)
	Joint number: 287

REMARKS	No. meter : SAJ 14A75878
	No. rumah :
	Semasa kerja (EF)
	Joint number: 288

REMARKS	No. meter : SAJ 14A75878
	No. rumah :
	Semasa kerja (EF)
	Joint number: 289

REMARKS	No. meter : SAJ 14A75878
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 14A75878
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 14A75878
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 14A75878
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 13A36629
	No. rumah :
	Semasa kerja (EF)
	Joint number: 290

REMARKS	No. meter : SAJ 13A36629
	No. rumah :
	Semasa kerja (EF)
	Joint number: 291

REMARKS	No. meter : SAJ 13A36629
	No. rumah :
	Semasa kerja (EF)
	Joint number: 292

REMARKS	No. meter : SAJ 13A36629
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 13A36629
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 13A36629
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 13A36629
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : NO METER
	No. rumah :
	Semasa kerja (EF)
	Joint number: 294

REMARKS	No. meter : NO METER
	No. rumah :
	Semasa kerja (EF)
	Joint number: 295

REMARKS	No. meter : NO METER 2
	No. rumah :
	Semasa kerja (EF)
	Joint number: 296

REMARKS	No. meter : NO METER 2
	No. rumah :
	Selepas kerja

REMARKS	No. meter : NO METER 2
	No. rumah :
	Selepas kerja

REMARKS	No. meter : NO METER 2
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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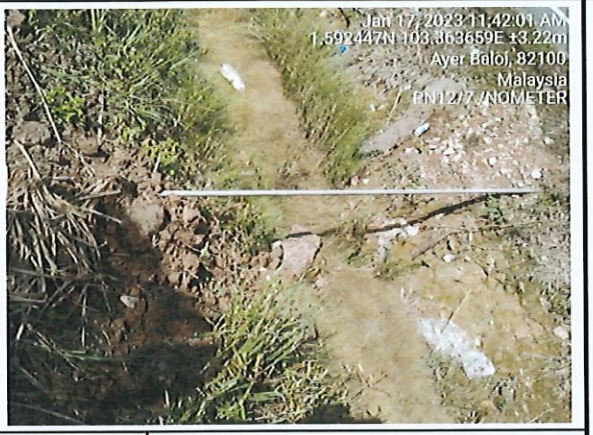
COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU



REMARKS	
	No. meter : NO METER 2
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : SAJ 2025253
	No. rumah :
	Semasa kerja (EF)
	Joint number: 297

REMARKS	
	No. meter : SAJ 2025253
	No. rumah :
	Semasa kerja (EF)
	Joint number: 298

REMARKS	
	No. meter : SAJ 2025253
	No. rumah :
	Semasa kerja (EF)
	Joint number: 299

REMARKS	
	No. meter : SAJ 2025253
	No. rumah :
	Selepas kerja

REMARKS	
	No. meter : SAJ 2025253
	No. rumah :
	Selepas kerja

REMARKS	
	No. meter : SAJ 2025253
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : SAJ 2025253
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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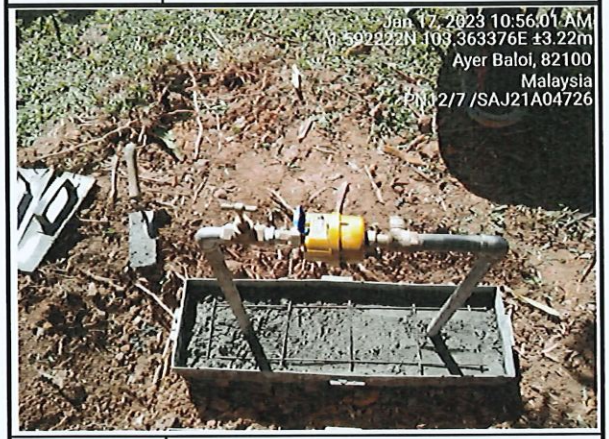
COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 21A04726
	No. rumah :
	Semasa kerja (EF)
	Joint number: 300

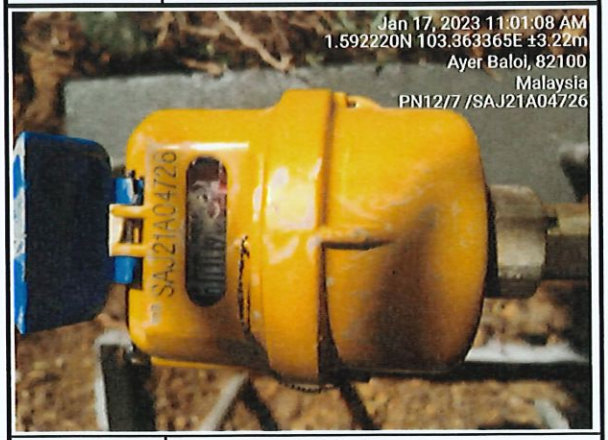
REMARKS	No. meter : SAJ 21A04726
	No. rumah :
	Semasa kerja (EF)
	Joint number: 301

REMARKS	No. meter : SAJ 21A04726
	No. rumah :
	Semasa kerja (EF)
	Joint number: 302



REMARKS	No. meter : SAJ 21A04726
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 21A04726
	No. rumah :
	Selepas kerja



REMARKS	No. meter : SAJ 21A04726
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : SAJ 21A04726
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 14F597177
	No. rumah :
	Semasa kerja (EF)
	Joint number: 303

REMARKS	No. meter : SAJ 14F597177
	No. rumah :
	Semasa kerja (EF)
	Joint number: 304

REMARKS	No. meter : SAJ 14F597177
	No. rumah :
	Semasa kerja (EF)
	Joint number: 305

REMARKS	No. meter : SAJ 14F597177
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 14F597177
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 14F597177
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 14F597177
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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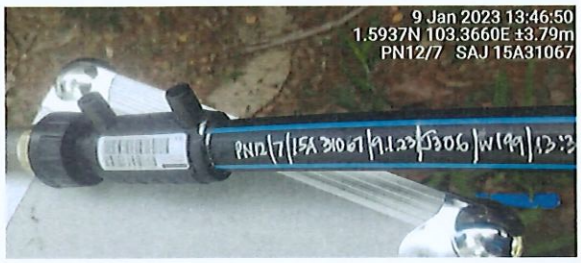
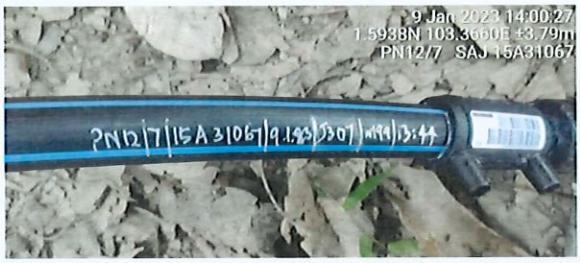
COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU



REMARKS	No. meter : SAJ 15A31069
	No. rumah :
	Semasa kerja (EF)
	Joint number: 306



REMARKS	No. meter : SAJ 15A31069
	No. rumah :
	Semasa kerja (EF)
	Joint number: 307

REMARKS	No. meter : SAJ 15A31069
	No. rumah :
	Semasa kerja (EF)
	Joint number: 308

REMARKS	No. meter : SAJ 15A31069
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 15A31069
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 15A31069
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : SAJ 15A31069
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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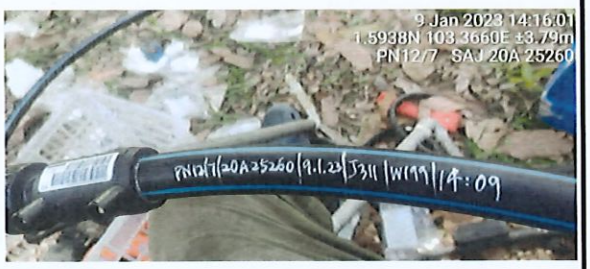
COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 20A25260
	No. rumah :
	Semasa kerja (EF)
	Joint number: 309

REMARKS	No. meter : SAJ 20A25260
	No. rumah :
	Semasa kerja (EF)
	Joint number: 310



REMARKS	No. meter : SAJ 20A25260
	No. rumah :
	Semasa kerja (EF)
	Joint number: 311

REMARKS	No. meter : SAJ 20A25260
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 20A25260
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 20A25260
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	9/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 20A25260
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

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RSAJ P-B102.Rev.4

PIPE LOG

Location : REHAB 2020 - PAKEJ 2 (SP 10)
PN12/7 - JLN KG JAWA ULU

Sheet No. : 3
Date : 10/1/2023

CHAINAGE	EXC. DEPTH

SITE CLEARANCE	sq.m	
BULK EXCAVATION		
All material	cu.m	
Rock	cu.m	
Compact material	cu.m	
FILLING		
Approved Material	cu.m	
Sand	cu.m	
Laterite (150mm)	sq.m	
Sand Bedding	sq.m	
Concrete	cu.m	
TURFING		
Top Soil (50mm)	sq.m	
Turfing	sq.m	

CHAMBER		
Type	Set	Middle
CHIPPING	sq.m	

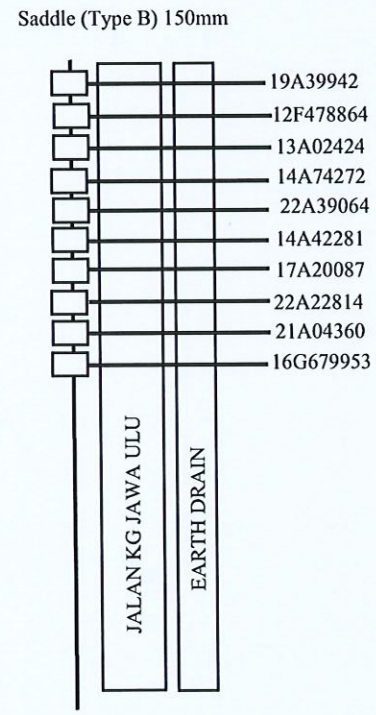
PILING		
Kayu Bakau	m	
Type of Pile	UPVC	
Size	mm	80
Length (Initial)	m	
Length (Extention)	m	
Join Welding	nos	
Cut Pile (1m)	nos	
Linatex Rubber	sq.m	
MS Strap / Bracing	nos	

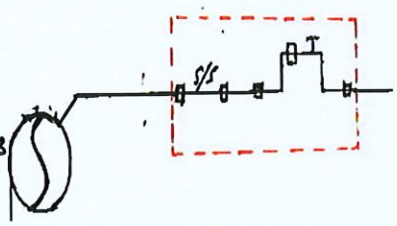
Prepared By :

Checked and Approved By : 24/1/2023
MUHAMAD AZRI BIN ABDUL AZIZ
INSPEKTOR KONTRAK PONTIAN
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

Date :

SKETCHED DRWG.





TRECH EXCAVATION		
a) Depth < 1.8 m	m	
b) Depth > 1.8 m < 3.0 m	m	
c) Road Cutting	m	
d) Track/Gravel/Earth Road	sq.m	
e) Concrete Surface	sq.m	
f) Cross Hedges/Fences/Wall	sq.m	
g) Road Kerb	m	
h) Under water earth drain	sq.m	
i) Under concrete drain/culvert	sq.m	
j) In rock	cu.m	
k) Unsuitable Material	cu.m	
REINSTATEMENT ROAD		
a) Sand Filling	cu.m	
b) Crusher Run	sq.m	
c) Binder Course	sq.m	
d) Wearing Course	sq.m	
e) Milling/Resurfacing	sq.m	
f)Thermoplastic Line Marking	m	

PIPE	DIA.(mm)	NOS	L (m)
HDPE	25	-	69.80
S/STEEL	20	-	22.30

EXPOSE PIPE & SPECIAL		
	m	
	m	
	nos	
	nos	
	nos	
	sq.m	

SPECIAL / FITTINGS		
150MM SADDLE (TYPE B)	nos	
20MM METER STAND	nos	10.00
ELECTRO FUSION (30)	nos	

Comments / Reports

NORSILAWATI BINTI ALI
EKSEKUTIF
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

ZAIDI BIN ABDULLAH SATARI
Engineer

JALUR CAHAYA SDN BHD 599034-X

RSAJ P-B107.Rev.4

Ranhill SAJ

DATA TAPPING DAN PAIP PERHUBUNGAN

PROGRAM PENGGANTIAN PAIP LAMA TAHUN 2020

Nama Projek : PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020

Nama Kontraktor : JALUR CAHAYA SDN BHD

Bil	Pipe	Size (mm)	No. Meter	No Rumah	Comm Pipe (m)		Lintas Parit		Bawah Jalan			Korekan (m2)			Catatan
					PA Pipe (m)	Poly Pipe (m)	GI Sleeve (m)	Stanless Steel (m)	Open Trench (m)	GI Sleeve (m)	Impact Molling	Jubin	Konkrit	Longkang	
1	UPVC	150	16G679953			6.00		1.70							
2	UPVC	150	21A04360			6.00		1.70							
3	UPVC	150	22A22814			6.50		1.70							
4	UPVC	150	17A20087			7.00		1.70							
5	UPVC	150	14A42281			6.30		1.70							
6	UPVC	150	22A39064			5.00		1.80							
7	UPVC	150	14A74272			6.20		2.80							
8	UPVC	150	13A02424			10.00		3.20							
9	UPVC	150	12F478864			7.60		2.80							
10	UPVC	150	19A39942			9.20		3.20							
11															
12															
13															
14															
15															
16															
17															
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23															
24															
25															
26															
27															
28															
29															
30															
					0.00	69.80	0.00	22.30	0.00	0.00	0.00	0.00	0.00	0.00	

Disediakan Oleh :

Kontraktor

Cop :

JALUR CAHAYA SDN BHD 599034-X

ZAIDI BIN ABDULLAH SATARI
Engineer

Disemak Oleh :

Inspektor Kontrak (D)

Cop :

MUHAMAD AZRI BIN ABDUL AZIZ
INSPEKTOR KONTRAK PONTIAN
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

Disahkan Oleh :

Eksekutif

Cop :

NORSILAWATI BINTI ALI
EKSEKUTIF
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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ELECTRO-FUSION MACHINE REPORT (COMM PIPE)

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 - API API
DATE	10/1/2023 (SELASA)
LOCATION	7 - JALAN KG JAWA ULU

312	10.01.23	11:45	31.3°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.767 Ohm	5.4 kJ	OK
313	10.01.23	11:52	31.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.706 Ohm	5.5 kJ	OK
314	10.01.23	11:59	33.0°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.744 Ohm	5.4 kJ	OK
315	10.01.23	12:11	36.4°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.724 Ohm	5.4 kJ	OK
316	10.01.23	12:18	39.1°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.739 Ohm	5.4 kJ	OK
317	10.01.23	12:24	37.4°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.758 Ohm	5.4 kJ	OK
318	10.01.23	12:31	35.6°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.750 Ohm	5.4 kJ	OK
319	10.01.23	12:39	36.2°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.737 Ohm	5.4 kJ	OK
320	10.01.23	12:46	35.4°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.718 Ohm	5.4 kJ	OK
321	10.01.23	12:52	34.1°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.753 Ohm	5.4 kJ	OK
322	10.01.23	12:59	33.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.754 Ohm	5.4 kJ	OK
323	10.01.23	13:07	33.6°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.754 Ohm	5.4 kJ	OK
324	10.01.23	13:24	32.6°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.736 Ohm	5.5 kJ	OK
325	10.01.23	13:34	32.4°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.747 Ohm	5.4 kJ	OK
326	10.01.23	13:41	32.1°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.705 Ohm	5.5 kJ	OK
327	10.01.23	13:49	31.6°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.678 Ohm	5.5 kJ	OK
328	10.01.23	13:55	31.5°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.746 Ohm	5.5 kJ	OK
329	10.01.23	14:02	31.3°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.727 Ohm	5.4 kJ	OK
330	10.01.23	14:11	30.5°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.733 Ohm	5.4 kJ	OK
331	10.01.23	14:15	30.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.737 Ohm	5.4 kJ	OK
332	10.01.23	14:24	32.1°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.691 Ohm	5.5 kJ	OK
333	10.01.23	14:31	32.6°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.686 Ohm	5.5 kJ	OK
334	10.01.23	14:35	32.3°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.723 Ohm	5.4 kJ	OK
335	10.01.23	14:44	31.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.726 Ohm	5.4 kJ	OK
336	10.01.23	14:55	33.6°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.702 Ohm	5.5 kJ	OK
337	10.01.23	15:01	32.8°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.745 Ohm	5.4 kJ	OK
338	10.01.23	15:10	31.3°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.727 Ohm	5.4 kJ	OK
339	10.01.23	15:16	30.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.744 Ohm	5.4 kJ	OK
340	10.01.23	15:23	30.4°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.736 Ohm	5.4 kJ	OK
341	10.01.23	15:28	29.9°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.742 Ohm	5.4 kJ	OK

Disediakan Oleh:

Kontraktor

ZAIDI BIN ABDULLAH SAARI
Engineer

JAYA SDN BHD 399094-X JALUR G

Disemak Oleh:

Inspektor Kontrak (D)

MUHAMAD AZRI BIN ABDUL AZIZ
INSPEKTOR KONTRAK PONTIAN
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

Disahkan Oleh:

NORSUHAWATI BINTI ALI
EKSEKUTIF
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

Eksekutif

Form No: JK/PT – 05
Rev Date: 23/06/2022

Ranhill SAJ

BORANG PEMERIKSAAN VISUAL (*ELECTRO-FUSION*)

Projek:	Program Penggantian Paip Lama Bagi Tahun 2020- Pakej 2
Nama :	Sharudin Bin Hassan
No sijil:	199
Nama syarikat:	Jalur Cahaya Sdn Bhd
Tarikh dan Masa:	10/1/2023

KRITERIA	✓	X
KEADAAN TAPAK		
Kawasan tapak berada dalam keadaan yang bersih dan kering.	/	
KEADAAN BAHAN DAN PERALATAN		
Peralatan berada dalam keadaan baik dan bersih.	/	
Fittings berada dalam bungkusan? Jika ya, periksa *fittings* jika terdapat kerosakan. Jika tidak, reject *fittings*.	/	
Peralatan adalah mencukupi sebelum kerja penyambungan dilakukan.	/	
- *Fusion machine*	/	
- *Universal pipe cutter*	/	
- *Rotational pipe scrapper*	/	
- *Marker*	/	
- *Isopropyl Alcohol (IPA)*	/	
- Kain bersih	/	
- *Generator*		
Kawasan penyambungan paip berada dalam keadaan yang bersih dan kering.	/	

PEMERIKSAAN SELEPAS PROSES PENYAMBUNGAN *ELECTRO-FUSION*

1) *Melt indicator* pada *fittings* timbul.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 312	/		Joint No. = 322	/	
Joint No. = 313	/		Joint No. = 323	/	
Joint No. = 314	/		Joint No. = 324	/	
Joint No. = 315	/		Joint No. = 325	/	
Joint No. = 316	/		Joint No. = 326	/	
Joint No. = 317	/		Joint No. = 327	/	
Joint No. = 318	/		Joint No. = 328	/	
Joint No. = 319	/		Joint No. = 329	/	
Joint No. = 320	/		Joint No. = 330	/	
Joint No. = 321	/		Joint No. = 331	/	

2) Hujung paip dipotong dengan tegak dan lurus.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 312	/		Joint No. = 322	/	
Joint No. = 313	/		Joint No. = 323	/	
Joint No. = 314	/		Joint No. = 324	/	
Joint No. = 315	/		Joint No. = 325	/	
Joint No. = 316	/		Joint No. = 326	/	
Joint No. = 317	/		Joint No. = 327	/	
Joint No. = 318	/		Joint No. = 328	/	
Joint No. = 319	/		Joint No. = 329	/	
Joint No. = 320	/		Joint No. = 330	/	
Joint No. = 321	/		Joint No. = 331	/	

3) Penyambungan paip yang dilakukan berada dalam keadaan selari.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 312	/		Joint No. = 322	/	
Joint No. = 313	/		Joint No. = 323	/	
Joint No. = 314	/		Joint No. = 324	/	
Joint No. = 315	/		Joint No. = 325	/	
Joint No. = 316	/		Joint No. = 326	/	
Joint No. = 317	/		Joint No. = 327	/	
Joint No. = 318	/		Joint No. = 328	/	
Joint No. = 319	/		Joint No. = 329	/	
Joint No. = 320	/		Joint No. = 330	/	
Joint No. = 321	/		Joint No. = 331	/	

4) Kawasan yang telah dikikis (*scrapped*) boleh dilihat.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 312	/		Joint No. = 322	/	
Joint No. = 313	/		Joint No. = 323	/	
Joint No. = 314	/		Joint No. = 324	/	
Joint No. = 315	/		Joint No. = 325	/	
Joint No. = 316	/		Joint No. = 326	/	
Joint No. = 317	/		Joint No. = 327	/	
Joint No. = 318	/		Joint No. = 328	/	
Joint No. = 319	/		Joint No. = 329	/	
Joint No. = 320	/		Joint No. = 330	/	
Joint No. = 321	/		Joint No. = 331	/	

5) Tanda pada paip (*penetration depth*) tepat dan boleh dilihat.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 312	/		Joint No. = 322		
Joint No. = 313	/		Joint No. = 323	/	
Joint No. = 314	/		Joint No. = 324	/	
Joint No. = 315	/		Joint No. = 325	/	
Joint No. = 316	/		Joint No. = 326	/	
Joint No. = 317	/		Joint No. = 327	/	
Joint No. = 318	/		Joint No. = 328	/	
Joint No. = 319	/		Joint No. = 329	/	
Joint No. = 320	/		Joint No. = 330	/	
Joint No. = 321	/		Joint No. = 331	/	

6) Tiada kesan percikan paip yang telah cair atau apa-apa kerosakan pada permukaan luar paip yang telah disambung.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 312	/		Joint No. = 322	/	
Joint No. = 313	/		Joint No. = 323	/	
Joint No. = 314	/		Joint No. = 324	/	
Joint No. = 315	/		Joint No. = 325	/	
Joint No. = 316	/		Joint No. = 326	/	
Joint No. = 317	/		Joint No. = 327	/	
Joint No. = 318	/		Joint No. = 328	/	
Joint No. = 319	/		Joint No. = 329	/	
Joint No. = 320	/		Joint No. = 330	/	
Joint No. = 321	/		Joint No. = 331	/	

7) Paip dan *fittings* yang disambung dibiarkan untuk sejuk mengikut tempoh masa yang ditetapkan.

Nama Jalan: PN12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 312	/		Joint No. = 322	/	
Joint No. = 313	/		Joint No. = 323	/	
Joint No. = 314	/		Joint No. = 324	/	
Joint No. = 315	/		Joint No. = 325	/	
Joint No. = 316	/		Joint No. = 326	/	
Joint No. = 317	/		Joint No. = 327	/	
Joint No. = 318	/		Joint No. = 328	/	
Joint No. = 319	/		Joint No. = 329	/	
Joint No. = 320	/		Joint No. = 330	/	
Joint No. = 321	/		Joint No. = 331	/	

ADAKAH PENYAMBUNGAN *ELECTRO-FUSION* INI DITERIMA?
(Jika TIDAK, sila nyatakan ulasan di ruangan yang disediakan)

	✓	X		✓	X
Joint No. = 312	/		Joint No. = 322	/	
Joint No. = 313	/		Joint No. = 323	/	
Joint No. = 314	/		Joint No. = 324	/	
Joint No. = 315	/		Joint No. = 325	/	
Joint No. = 316	/		Joint No. = 326	/	
Joint No. = 317	/		Joint No. = 327	/	
Joint No. = 318	/		Joint No. = 328	/	
Joint No. = 319	/		Joint No. = 329	/	
Joint No. = 320	/		Joint No. = 330	/	
Joint No. = 321	/		Joint No. = 331	/	

Ulasan:

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Dikendalikan oleh:	Diperiksa dan disahkan oleh:
Tandatangan:	Tandatangan:
Nama Kontraktor: SHAHRUDIN B. HASSAN	Nama Kontrak Inspektor: MUHAMAD AZRI BIN ABDUL AZIZ INSPEKTOR KONTRAK PONTIAN
No. Anggota: 199	No. Anggota: JABATAN PROJEK RANHILL SAJ SDN. BHD.
Tarikh:	Tarikh: 10/1/2023

**Dokumen yang perlu diserahkan kepada *Contract Inspector*: Gambar penyambungan dan laporan daripada *Data Logger*.

Form No: JK/PT – 05
Rev Date: 23/06/2022

Ranhill SAJ

BORANG PEMERIKSAAN VISUAL (*ELECTRO-FUSION*)

Projek:	Program Penggantian Paip Lama Bagi Tahun 2020 - Pakej 2
Nama :	Sharudin Bin Hassan
No sijil:	199
Nama syarikat:	Jalur Cahaya Sdn Bhd
Tarikh dan Masa:	10/1/2023

KRITERIA	✓	X
KEADAAN TAPAK		
Kawasan tapak berada dalam keadaan yang bersih dan kering.	/	
KEADAAN BAHAN DAN PERALATAN		
Peralatan berada dalam keadaan baik dan bersih.	/	
Fittings berada dalam bungkusan? Jika ya, periksa *fittings* jika terdapat kerosakan. Jika tidak, reject *fittings*.	/	
Peralatan adalah mencukupi sebelum kerja penyambungan dilakukan.		
- *Fusion machine*	/	
- *Universal pipe cutter*	/	
- *Rotational pipe scrapper*	/	
- *Marker*	/	
- *Isopropyl Alcohol (IPA)*	/	
- Kain bersih	/	
- *Generator*	/	
Kawasan penyambungan paip berada dalam keadaan yang bersih dan kering.	/	

PEMERIKSAAN SELEPAS PROSES PENYAMBUNGAN *ELECTRO-FUSION*

1) *Melt indicator* pada *fittings* timbul.

Nama Jalan: PN12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 332	/		Joint No. =		
Joint No. = 333	/		Joint No. =		
Joint No. = 334	/		Joint No. =		
Joint No. = 335	/		Joint No. =		
Joint No. = 336	/		Joint No. =		
Joint No. = 337	/		Joint No. =		
Joint No. = 338	/		Joint No. =		
Joint No. = 339	/		Joint No. =		
Joint No. = 340	/		Joint No. =		
Joint No. = 341	/		Joint No. =		

2) Hujung paip dipotong dengan tegak dan lurus.

Nama Jalan: PN12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 332	/		Joint No. =		
Joint No. = 333	/		Joint No. =		
Joint No. = 334	/		Joint No. =		
Joint No. = 335	/		Joint No. =		
Joint No. = 336	/		Joint No. =		
Joint No. = 337	/		Joint No. =		
Joint No. = 338	/		Joint No. =		
Joint No. = 339	/		Joint No. =		
Joint No. = 340	/		Joint No. =		
Joint No. = 341	/		Joint No. =		

3) Penyambungan paip yang dilakukan berada dalam keadaan selari.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 332	/		Joint No. =		
Joint No. = 333	/		Joint No. =		
Joint No. = 334	/		Joint No. =		
Joint No. = 335	/		Joint No. =		
Joint No. = 336	/		Joint No. =		
Joint No. = 337	/		Joint No. =		
Joint No. = 338	/		Joint No. =		
Joint No. = 339	/		Joint No. =		
Joint No. = 340	/		Joint No. =		
Joint No. = 341	/		Joint No. =		

4) Kawasan yang telah dikikis (*scrapped*) boleh dilihat.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 332	/		Joint No. =		
Joint No. = 333	/		Joint No. =		
Joint No. = 334	/		Joint No. =		
Joint No. = 335	/		Joint No. =		
Joint No. = 336	/		Joint No. =		
Joint No. = 337	/		Joint No. =		
Joint No. = 338	/		Joint No. =		
Joint No. = 339	/		Joint No. =		
Joint No. = 340	/		Joint No. =		
Joint No. = 341	/		Joint No. =		

5) Tanda pada paip (*penetration depth*) tepat dan boleh dilihat.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 332	/		Joint No. =		
Joint No. = 333	/		Joint No. =		
Joint No. = 334	/		Joint No. =		
Joint No. = 335	/		Joint No. =		
Joint No. = 336	/		Joint No. =		
Joint No. = 337	/		Joint No. =		
Joint No. = 338	/		Joint No. =		
Joint No. = 339	/		Joint No. =		
Joint No. = 340	/		Joint No. =		
Joint No. = 341	/		Joint No. =		

6) Tiada kesan percikan paip yang telah cair atau apa-apa kerosakan pada permukaan luar paip yang telah disambung.

Nama Jalan: PN 12/7 (JLN KG JAWA ULU)

	✓	X		✓	X
Joint No. = 332	/		Joint No. =		
Joint No. = 333	/		Joint No. =		
Joint No. = 334	/		Joint No. =		
Joint No. = 335	/		Joint No. =		
Joint No. = 336	/		Joint No. =		
Joint No. = 337	/		Joint No. =		
Joint No. = 338	/		Joint No. =		
Joint No. = 339	/		Joint No. =		
Joint No. = 340	/		Joint No. =		
Joint No. = 341	/		Joint No. =		

7) Paip dan *fittings* yang disambung dibiarkan untuk sejuk mengikut tempoh masa yang ditetapkan.

Nama Jalan: PN12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 332	/		Joint No. =		
Joint No. = 333	/		Joint No. =		
Joint No. = 334	/		Joint No. =		
Joint No. = 335	/		Joint No. =		
Joint No. = 336	/		Joint No. =		
Joint No. = 337	/		Joint No. =		
Joint No. = 338	/		Joint No. =		
Joint No. = 339	/		Joint No. =		
Joint No. = 340	/		Joint No. =		
Joint No. = 341	/		Joint No. =		

ADAKAH PENYAMBUNGAN *ELECTRO-FUSION* INI DITERIMA?
(Jika TIDAK, sila nyatakan ulasan di ruangan yang disediakan)

	✓	X		✓	X
Joint No. = 332	/		Joint No. =		
Joint No. = 333	/		Joint No. =		
Joint No. = 334	/		Joint No. =		
Joint No. = 335	/		Joint No. =		
Joint No. = 336	/		Joint No. =		
Joint No. = 337	/		Joint No. =		
Joint No. = 338	/		Joint No. =		
Joint No. = 339	/		Joint No. =		
Joint No. = 340	/		Joint No. =		
Joint No. = 341	/		Joint No. =		

Ulasan:

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.....

.....

Dikendalikan oleh:	Diperiksa dan disahkan oleh:
Tandatangan:	Tandatangan:
Nama Kontraktor: SHAHRUDIN B. HASSAN	Nama Kontrak Inspektor: MUHAMAD AZRI BIN ABDUL AZIZ INSPEKTOR KONTRAK PONTIAN JABATAN PROJEK RANHILL SAJ SDN. BHD.
No. Anggota: 199	No. Anggota:
Tarikh: 10.01.2023	Tarikh: 10/1/2023

**Dokumen yang perlu diserahkan kepada *Contract Inspector*: Gambar penyambungan dan laporan daripada *Data Logger*.

JALUR CAHAYA SDN BHD 599034-X

ZAIDI BIN ABDULLAH SATARI
Engineer

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 16G679953
	No. rumah :
	Semasa kerja (EF)
	Joint number: 312

REMARKS	No. meter : SAJ 16G679953
	No. rumah :
	Semasa kerja (EF)
	Joint number: 313

REMARKS	No. meter : SAJ 16G679953
	No. rumah :
	Semasa kerja (EF)
	Joint number: 314

REMARKS	No. meter : SAJ 16G679953
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 16G679953
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 16G679953
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : SAJ 16G679953
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 21A04360
	No. rumah :
	Semasa kerja (EF)
	Joint number: 315

REMARKS	No. meter : SAJ 21A04360
	No. rumah :
	Semasa kerja (EF)
	Joint number: 316

REMARKS	No. meter : SAJ 21A04360
	No. rumah :
	Semasa kerja (EF)
	Joint number: 317

REMARKS	No. meter : SAJ 21A04360
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 21A04360
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 21A04360
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : SAJ 21A04360
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

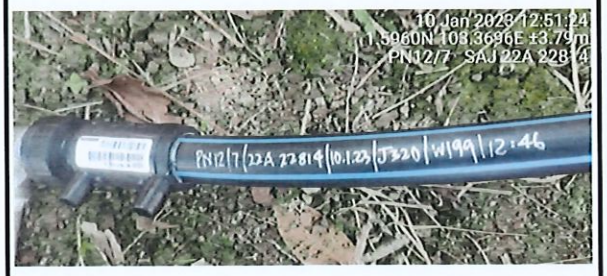
JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 22A22814
	No. rumah :
	Semasa kerja (EF)
	Joint number: 318

REMARKS	No. meter : SAJ 22A22814
	No. rumah :
	Semasa kerja (EF)
	Joint number: 319



REMARKS	No. meter : SAJ 22A22814
	No. rumah :
	Semasa kerja (EF)
	Joint number: 320

REMARKS	No. meter : SAJ 22A22814
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 22A22814
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 22A22814
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : SAJ 22A22814
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

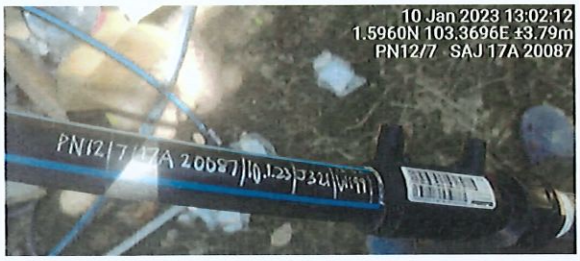
PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

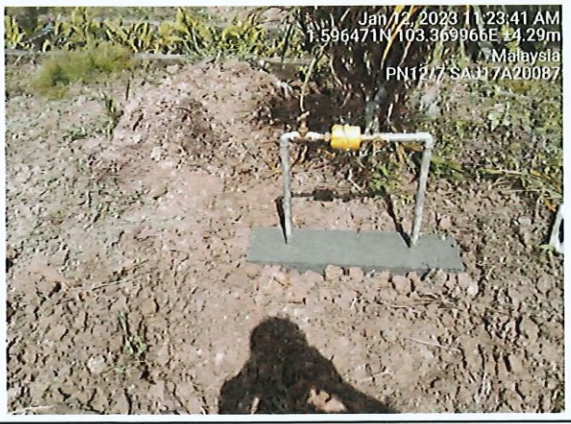


REMARKS	No. meter : SAJ 17A20087
	No. rumah :
	Semasa kerja (EF)
	Joint number: 321

REMARKS	No. meter : SAJ 17A20087
	No. rumah :
	Semasa kerja (EF)
	Joint number: 322

REMARKS	No. meter : SAJ 17A20087
	No. rumah :
	Semasa kerja (EF)
	Joint number: 323

REMARKS	No. meter : SAJ 17A20087
	No. rumah :
	Selepas kerja



REMARKS	No. meter : SAJ 17A20087
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 17A20087
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : SAJ 17A20087
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 14A42281
	No. rumah :
	Semasa kerja (EF)
	Joint number: 324

REMARKS	No. meter : SAJ 14A42281
	No. rumah :
	Semasa kerja (EF)
	Joint number: 325

REMARKS	No. meter : SAJ 14A42281
	No. rumah :
	Semasa kerja (EF)
	Joint number: 326

REMARKS	No. meter : SAJ 14A42281
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 14A42281
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 14A42281
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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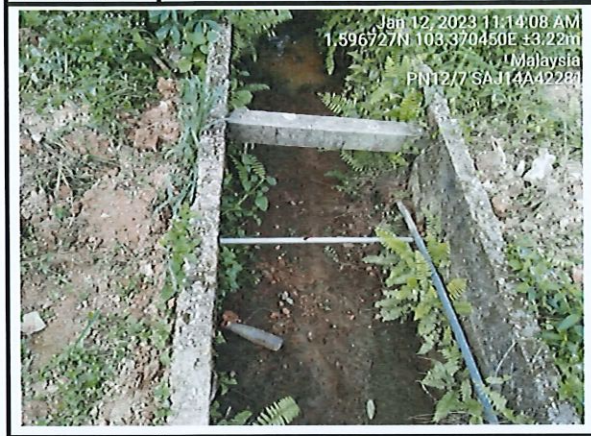
COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU



REMARKS	No. meter : SAJ 14A42281
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 22A39064
	No. rumah :
	Semasa kerja (EF)
	Joint number: 327

REMARKS	No. meter : SAJ 22A39064
	No. rumah :
	Semasa kerja (EF)
	Joint number: 328

REMARKS	No. meter : SAJ 22A39064
	No. rumah :
	Semasa kerja (EF)
	Joint number: 329

REMARKS	No. meter : SAJ 22A39064
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 22A39064
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 22A39064
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : SAJ 22A39064
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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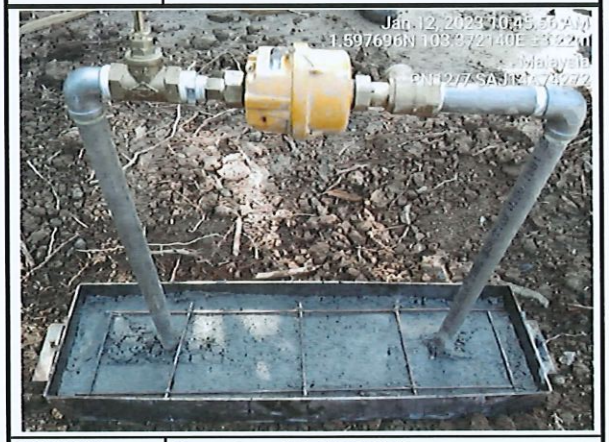
COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 14A74272
	No. rumah :
	Semasa kerja (EF)
	Joint number: 330

REMARKS	No. meter : SAJ 14A74272
	No. rumah :
	Semasa kerja (EF)
	Joint number: 331

REMARKS	No. meter : SAJ 14A74272
	No. rumah :
	Semasa kerja (EF)
	Joint number: 332



REMARKS	No. meter : SAJ 14A74272
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 14A74272
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 14A74272
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : SAJ 14A74272
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 13A02424
	No. rumah :
	Semasa kerja (EF)
	Joint number: 333

REMARKS	No. meter : SAJ 13A02424
	No. rumah :
	Semasa kerja (EF)
	Joint number: 334

REMARKS	No. meter : SAJ 13A02424
	No. rumah :
	Semasa kerja (EF)
	Joint number: ~~336~~ 335

REMARKS	No. meter : SAJ 13A02424
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 13A02424
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 13A02424
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : SAJ 13A02424
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

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COMMUNICATION PIPE WORKS

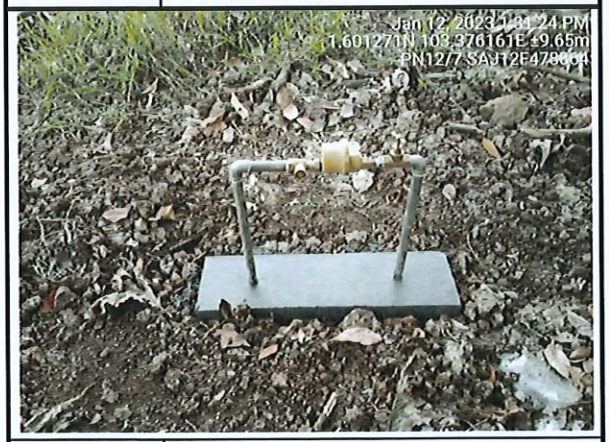
SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 12F478864
	No. rumah :
	Semasa kerja (EF)
	Joint number: 336

REMARKS	No. meter : SAJ 12F478864
	No. rumah :
	Semasa kerja (EF)
	Joint number: 337

REMARKS	No. meter : SAJ 12F478864
	No. rumah :
	Semasa kerja (EF)
	Joint number: 338

REMARKS	No. meter : SAJ 12F478864
	No. rumah :
	Selepas kerja



REMARKS	No. meter : SAJ 12F478864
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 12F478864
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : SAJ 12F478864
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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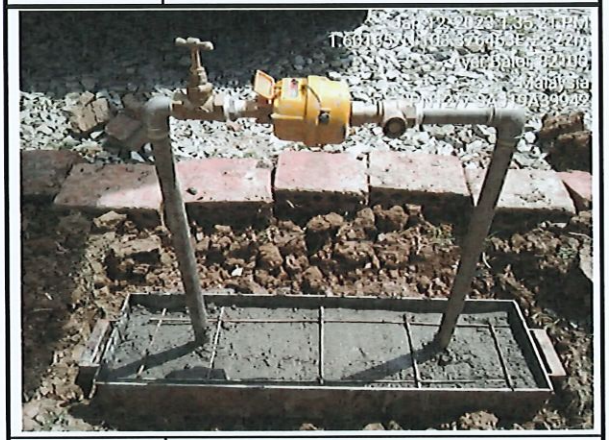
COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 19A39942
	No. rumah :
	Semasa kerja (EF)
	Joint number: 339

REMARKS	No. meter : SAJ 19A39942
	No. rumah :
	Semasa kerja (EF)
	Joint number: 340

REMARKS	No. meter : SAJ 19A39942
	No. rumah :
	Semasa kerja (EF)
	Joint number: 341



REMARKS	No. meter : SAJ 19A39942
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 19A39942
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 19A39942
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	10/1/2022 (SELASA)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : SAJ 19A39942
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

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RSAJ P-B102.Rev.4

PIPE LOG

Location : REHAB 2020 - PAKEJ 2 (SP 10)
PN12/7 - JLN KG JAWA ULU

Sheet No. : 4
Date : 11/1/2023

CHAINAGE	EXC. DEPTH

SITE CLEARANCE	sq.m	
BULK EXCAVATION		
All material	cu.m	
Rock	cu.m	
Compact material	cu.m	
FILLING		
Approved Material	cu.m	
Sand	cu.m	
Laterite (150mm)	sq.m	
Sand Bedding	sq.m	
Concrete	cu.m	
TURFING		
Top Soil (50mm)	sq.m	
Turfing	sq.m	

CHAMBER		
Type	Set	Middle
CHIPPING	sq.m	

PILING		
Kayu Bakau	m	
Type of Pile	UPVC	
Size	mm	80
Length (Initial)	m	
Length (Extention)	m	
Join Welding	nos	
Cut Pile (1m)	nos	
Linatex Rubber	sq.m	
MS Strap / Bracing	nos	

Prepared By :

Checked and Approved By :

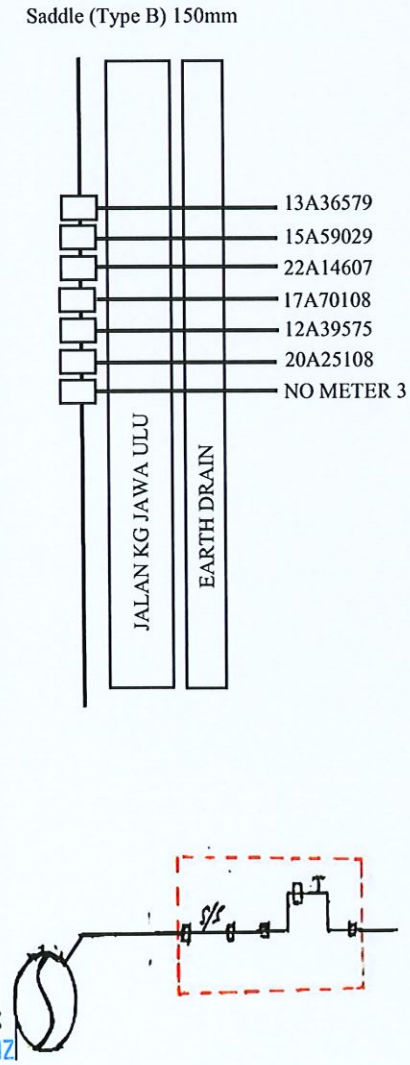
24/1/2023

Date :

MUHAMAD AZRI BIN ABDUL AZIZ
INSPEKTOR KONTRAK PONTIAN
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

ZAIDI BIN ABDULLAH SATARI
Engineer

SKETCHED DRWG.



TRECH EXCAVATION		
a) Depth < 1.8 m	m	
b) Depth > 1.8 m < 3.0 m	m	
c) Road Cutting	m	
d) Track/Gravel/Earth Road	sq.m	
e) Concrete Surface	sq.m	
f) Cross Hedges/Fences/Wall	sq.m	
g) Road Kerb	m	
h) Under water earth drain	sq.m	
i) Under concrete drain/culvert	sq.m	
j) In rock	cu.m	
k) Unsuitable Material	cu.m	
REINSTATEMENT ROAD		
a) Sand Filling	cu.m	
b) Crusher Run	sq.m	
c) Binder Course	sq.m	
d) Wearing Course	sq.m	
e) Milling/Resurfacing	sq.m	
f)Thermoplastic Line Marking	m	

PIPE	DIA.(mm)	NOS	L (m)
HDPE	25	-	54.70
S/STEEL	20	-	6.80

EXPOSE PIPE & SPECIAL		
	m	
	m	
	nos	
	nos	
	nos	
	sq.m	
SPECIAL / FITTINGS		
150MM SADDLE (TYPE B)	nos	—
20MM METER STAND	nos	7.00
ELECTRO FUSION (16)	nos	

Comments / Reports

NORSILAWATI BINTI ALI
EKSEKI
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

RSAJ P-B107.Rev.4

Ranhill SAJ

DATA TAPPING DAN PAIP PERHUBUNGAN

PROGRAM PENGGANTIAN PAIP LAMA TAHUN 2020

Nama Projek : PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020

Nama Kontraktor : JALUR CAHAYA SDN BHD

Bil	Pipe	Size (mm)	No. Meter	No Rumah	Comm Pipe (m)		Lintas Parit		Bawah Jalan			Korekan (m2)			Catatan
					PA Pipe (m)	Poly Pipe (m)	GI Sleeve (m)	Stanless Steel (m)	Open Trench (m)	GI Sleeve (m)	Impact Molling	Jubin	Konkrit	Longkang	
1	UPVC	150	NO METER 3			7.00									
2	UPVC	150	20A25108			5.80									
3	UPVC	150	12A39575			9.50									
4	UPVC	150	17A70108			7.00									
5	UPVC	150	22A14607			9.20		3.40							
6	UPVC	150	15A59029			7.70		3.40							
7	UPVC	150	13A36579			8.50									
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
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21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
					0.00	54.70	0.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00	

Disediakan Oleh :

Kontraktor

Cop :

JALUR CAHAYA SDN BHD 599034-X

ZAIDI BIN ABDULLAH SATARI
Engineer

Disemak Oleh :

Inspektor Kontrak (D)

Cop :

MUHAMAD AZRI BIN ABDUL AZIZ
INSPEKTOR KONTRAK PONTIAN
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

Disahkan Oleh :

Eksekutif

Cop :

NORSILAWATI BINTI ALI
EKSEKUTIF
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

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ELECTRO-FUSION MACHINE REPORT (COMM PIPE)

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 - API API
DATE	11/1/2023 (RABU)
LOCATION	7 - JALAN KG JAWA ULU

342	11.01.23	10:51	30.3°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.724 Ohm	5.4 kJ	OK
343	11.01.23	10:58	30.4°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.754 Ohm	5.4 kJ	OK
344	11.01.23	11:09	30.9°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.756 Ohm	5.4 kJ	OK
345	11.01.23	11:15	31.0°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.726 Ohm	5.4 kJ	OK
346	11.01.23	11:25	30.8°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.726 Ohm	5.4 kJ	OK
347	11.01.23	11:31	30.8°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.741 Ohm	5.4 kJ	OK
348	11.01.23	11:37	30.8°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.696 Ohm	5.5 kJ	OK
349	11.01.23	11:43	30.9°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.705 Ohm	5.5 kJ	OK
350	11.01.23	11:50	31.1°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.720 Ohm	5.4 kJ	OK
351	11.01.23	11:57	31.9°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.741 Ohm	5.4 kJ	OK
352	11.01.23	12:03	32.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.717 Ohm	5.5 kJ	OK
353	11.01.23	12:10	32.4°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.760 Ohm	5.4 kJ	OK
354	11.01.23	12:17	32.5°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.748 Ohm	5.4 kJ	OK
355	11.01.23	12:23	33.0°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.769 Ohm	5.4 kJ	OK
356	11.01.23	12:30	32.8°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.755 Ohm	5.4 kJ	OK
357	11.01.23	12:37	32.8°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.739 Ohm	5.4 kJ	OK

Disediakan Oleh:

Kontraktor

ZAIDI BIN ABDULLAH SATARI
Engineer

Disemak Oleh:

Inspektor Kontrak (D)

MUHAMAD AZRI BIN ABDUL AZIZ
INSPEKTOR KONTRAK PONTIAN
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

Disahkan Oleh:

NORSHAWATI BINTI ALI
EKSEKUTIF
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

Eksekutif

Ranhill SAJ

Form No: JK/PT – 05
Rev Date: 23/06/2022

BORANG PEMERIKSAAN VISUAL (*ELECTRO-FUSION*)

Projek:	PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 - PAKEJ 2
Nama :	SHARUDIN BIN HASSAN
No sijil:	199
Nama syarikat:	JALUR CAHAYA SDN BHD
Tarikh dan Masa:	11/1/2023

KRITERIA	✓	X
KEADAAN TAPAK		
Kawasan tapak berada dalam keadaan yang bersih dan kering.	/	
KEADAAN BAHAN DAN PERALATAN		
Peralatan berada dalam keadaan baik dan bersih.	/	
Fittings berada dalam bungkusan? Jika ya, periksa *fittings* jika terdapat kerosakan. Jika tidak, reject *fittings*.	/	
Peralatan adalah mencukupi sebelum kerja penyambungan dilakukan.		
- *Fusion machine*	/	
- *Universal pipe cutter*	/	
- *Rotational pipe scrapper*	/	
- *Marker*	/	
- *Isopropyl Alcohol (IPA)*	/	
- Kain bersih	/	
- *Generator*	/	
Kawasan penyambungan paip berada dalam keadaan yang bersih dan kering.	/	

PEMERIKSAAN SELEPAS PROSES PENYAMBUNGAN *ELECTRO-FUSION*

1) *Melt indicator* pada *fittings* timbul.

Nama Jalan: PN12/7 - JLN KG JAWA ULU

		✓	X			✓	X
Joint No. =	342	/		Joint No. =	352	/	
Joint No. =	343	/		Joint No. =	353	/	
Joint No. =	344	/		Joint No. =	354	/	
Joint No. =	345	/		Joint No. =	355	/	
Joint No. =	346	/		Joint No. =	356	/	
Joint No. =	347	/		Joint No. =	357	/	
Joint No. =	348	/		Joint No. =			
Joint No. =	349	/		Joint No. =			
Joint No. =	350	/		Joint No. =			
Joint No. =	351	/		Joint No. =			

2) Hujung paip dipotong dengan tegak dan lurus.

Nama Jalan:

		✓	X			✓	X
Joint No. =	342	/		Joint No. =	352	/	
Joint No. =	343	/		Joint No. =	353	/	
Joint No. =	344	/		Joint No. =	354	/	
Joint No. =	345	/		Joint No. =	355	/	
Joint No. =	346	/		Joint No. =	356	/	
Joint No. =	347	/		Joint No. =	357	/	
Joint No. =	348	/		Joint No. =			
Joint No. =	349	/		Joint No. =			
Joint No. =	350	/		Joint No. =			
Joint No. =	351	/		Joint No. =			

3) Penyambungan paip yang dilakukan berada dalam keadaan selari.

Nama Jalan: PN12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 342	/		Joint No. = 352	/	
Joint No. = 343	/		Joint No. = 353	/	
Joint No. = 344	/		Joint No. = 354	/	
Joint No. = 345	/		Joint No. = 355	/	
Joint No. = 346	/		Joint No. = 356	/	
Joint No. = 347	/		Joint No. = 357	/	
Joint No. = 348	/		Joint No. =		
Joint No. = 349	/		Joint No. =		
Joint No. = 350	/		Joint No. =		
Joint No. = 351	/		Joint No. =		

4) Kawasan yang telah dikikis (*scrapped*) boleh dilihat.

Nama Jalan: PN12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 342	/		Joint No. = 352	/	
Joint No. = 343	/		Joint No. = 353	/	
Joint No. = 344	/		Joint No. = 354	/	
Joint No. = 345	/		Joint No. = 355	/	
Joint No. = 346	/		Joint No. = 356	/	
Joint No. = 347	/		Joint No. = 357	/	
Joint No. = 348	/		Joint No. =		
Joint No. = 349	/		Joint No. =		
Joint No. = 350	/		Joint No. =		
Joint No. = 351	/		Joint No. =		

5) Tanda pada paip (*penetration depth*) tepat dan boleh dilihat.

Nama Jalan: PN12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 342	/		Joint No. = 352	/	
Joint No. = 343	/		Joint No. = 353	/	
Joint No. = 344	/		Joint No. = 354	/	
Joint No. = 345	/		Joint No. = 355	/	
Joint No. = 346	/		Joint No. = 356	/	
Joint No. = 347	/		Joint No. = 357	/	
Joint No. = 348	/		Joint No. =		
Joint No. = 349	/		Joint No. =		
Joint No. = 350	/		Joint No. =		
Joint No. = 351	/		Joint No. =		

6) Tiada kesan percikan paip yang telah cair atau apa-apa kerosakan pada permukaan luar paip yang telah disambung.

Nama Jalan: PN 12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 342	/		Joint No. = 352	/	
Joint No. = 343	/		Joint No. = 353	/	
Joint No. = 344	/		Joint No. = 354	/	
Joint No. = 345	/		Joint No. = 355	/	
Joint No. = 346	/		Joint No. = 356	/	
Joint No. = 347	/		Joint No. = 357	/	
Joint No. = 348	/		Joint No. =		
Joint No. = 349	/		Joint No. =		
Joint No. = 350	/		Joint No. =		
Joint No. = 351	/		Joint No. =		

7) Paip dan *fittings* yang disambung dibiarkan untuk sejuk mengikut tempoh masa yang ditetapkan.					
Nama Jalan: PW 12/7 - JLN KG JAWA ULU					
	✓	X		✓	X
Joint No. = 342	/		Joint No. = 352	/	
Joint No. = 343	/		Joint No. = 353	/	
Joint No. = 344	/		Joint No. = 354	/	
Joint No. = 345	/		Joint No. = 355	/	
Joint No. = 346	/		Joint No. = 356	/	
Joint No. = 347	/		Joint No. = 357	/	
Joint No. = 348	/		Joint No. =		
Joint No. = 349	/		Joint No. =		
Joint No. = 350	/		Joint No. =		
Joint No. = 351	/		Joint No. =		

ADAKAH PENYAMBUNGAN *ELECTRO-FUSION* INI DITERIMA?
(Jika TIDAK, sila nyatakan ulasan di ruangan yang disediakan)

	✓	X		✓	X
Joint No. = 342	/		Joint No. = 352	/	
Joint No. = 343	/		Joint No. = 353	/	
Joint No. = 344	/		Joint No. = 354	/	
Joint No. = 345	/		Joint No. = 355	/	
Joint No. = 346	/		Joint No. = 356	/	
Joint No. = 347	/		Joint No. = 357	/	
Joint No. = 348	/		Joint No. =		
Joint No. = 349	/		Joint No. =		
Joint No. = 350	/		Joint No. =		
Joint No. = 351	/		Joint No. =		

Ulasan:

.....

.....

.....

Dikendalikan oleh:	Diperiksa dan disahkan oleh:
Tandatangan:	Tandatangan:
Nama Kontraktor: SHAHUDIN B. HASSAN	Nama Kontrak Inspektor: MUHAMAD AZRI BIN ABDUL AZIZ INSPEKTOR KONTRAK PONTIAN
No. Anggota: 199	No. Anggota: JABATAN PROJEK RANHILL SAJ SDN. BHD.
Tarikh: 11/01/2023	Tarikh: 11/1/2023

**Dokumen yang perlu diserahkan kepada *Contract Inspector*: Gambar penyambungan dan laporan daripada *Data Logger*.

ZAIDI BIN ABDULLAH SATARI
Engineer

JALUR CAHAYA SDN BHD 698034-X

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	11/1/2022 (RABU)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : NO METER 3
	No. rumah :
	Semasa kerja (EF)
	Joint number: 342

REMARKS	No. meter : NO METER 3
	No. rumah :
	Semasa kerja (EF)
	Joint number: 343

REMARKS	No. meter : NO METER 3
	No. rumah :
	Selepas kerja

REMARKS	No. meter : NO METER 3
	No. rumah :
	Selepas kerja

REMARKS	No. meter : NO METER 3
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	11/1/2022 (RABU)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 2025108
	No. rumah :
	Semasa kerja (EF)
	Joint number: 344

REMARKS	No. meter : SAJ 2025108
	No. rumah :
	Semasa kerja (EF)
	Joint number: 345

REMARKS	No. meter : SAJ 2025108
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 20A25108
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 20A25108
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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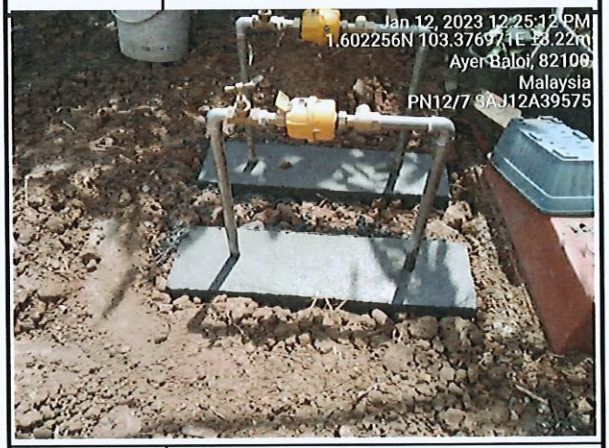
COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	11/1/2022 (RABU)
LOCATION	7- JALAN KG JAWA ULU

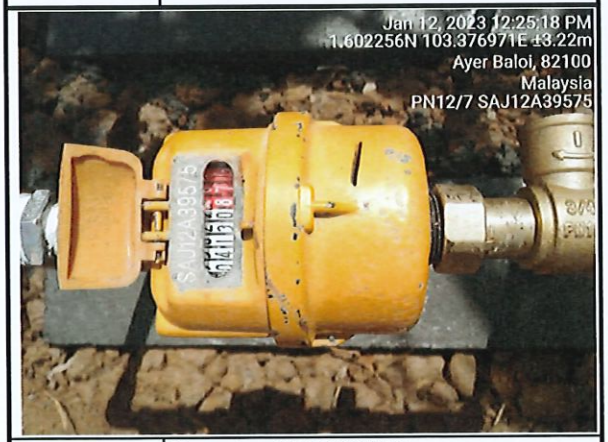
REMARKS	No. meter : SAJ 12A39575
	No. rumah :
	Semasa kerja (EF)
	Joint number: 346

REMARKS	No. meter : SAJ 12A39575
	No. rumah :
	Semasa kerja (EF)
	Joint number: 347

REMARKS	No. meter : SAJ 12A39575
	No. rumah :
	Selepas kerja



REMARKS	No. meter : SAJ 12A39575
	No. rumah :
	Selepas kerja



REMARKS	No. meter : SAJ 12A39575
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	11/1/2022 (RABU)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 17A70108
	No. rumah :
	Semasa kerja (EF)
	Joint number: 348

REMARKS	No. meter : SAJ 17A70108
	No. rumah :
	Semasa kerja (EF)
	Joint number: 349

REMARKS	No. meter : SAJ 17A70108
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 17A70108
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 17A70108
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	11/1/2022 (RABU)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 22A14607
	No. rumah :
	Semasa kerja (EF)
	Joint number: 350

REMARKS	No. meter : SAJ 22A14607
	No. rumah :
	Semasa kerja (EF)
	Joint number: 351

REMARKS	No. meter : SAJ 22A14607
	No. rumah :
	Semasa kerja (EF)
	Joint number: 352

REMARKS	No. meter : SAJ 22A14607
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 22A14607
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 22A14607
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	11/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	
	No. meter : SAJ 22A14607
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	11/1/2022 (RABU)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 15A59029
	No. rumah :
	Semasa kerja (EF)
	Joint number: 353

REMARKS	No. meter : SAJ 15A59029
	No. rumah :
	Semasa kerja (EF)
	Joint number: 354

REMARKS	No. meter : SAJ 15A59029
	No. rumah :
	Semasa kerja (EF)
	Joint number: 355

REMARKS	No. meter : SAJ 15A59029
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 15A59029
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 15A59029
	No. rumah :
	Selepas kerja

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	11/1/2022 (AHAD)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 15A59029
	No. rumah :
	Selepas kerja (s/s crossing)

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

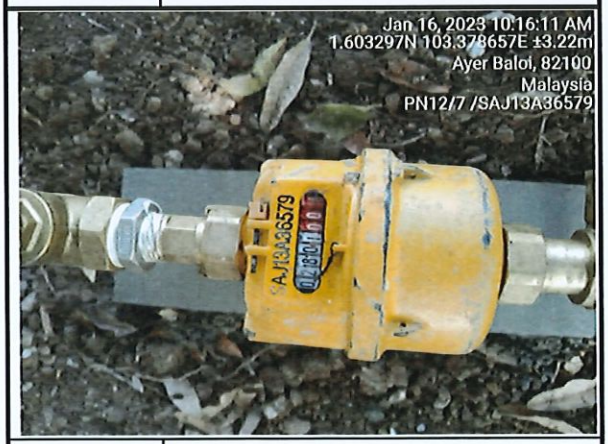
SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	11/1/2022 (RABU)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 13A36579
	No. rumah :
	Semasa kerja (EF)
	Joint number: 356

REMARKS	No. meter : SAJ 13A36579
	No. rumah :
	Semasa kerja (EF)
	Joint number: 357

REMARKS	No. meter : SAJ 13A36579
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 13A36579
	No. rumah :
	Selepas kerja



REMARKS	No. meter : SAJ 13A36579
	No. rumah :
	Selepas kerja

REMARKS	

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RSAJ P-B102.Rev.4

PIPE LOG

Location : REHAB 2020 - PAKEJ 2 (SP 10)
PN12/7 - JLN KG JAWA ULU

Sheet No. : 5
Date : 14/1/2023

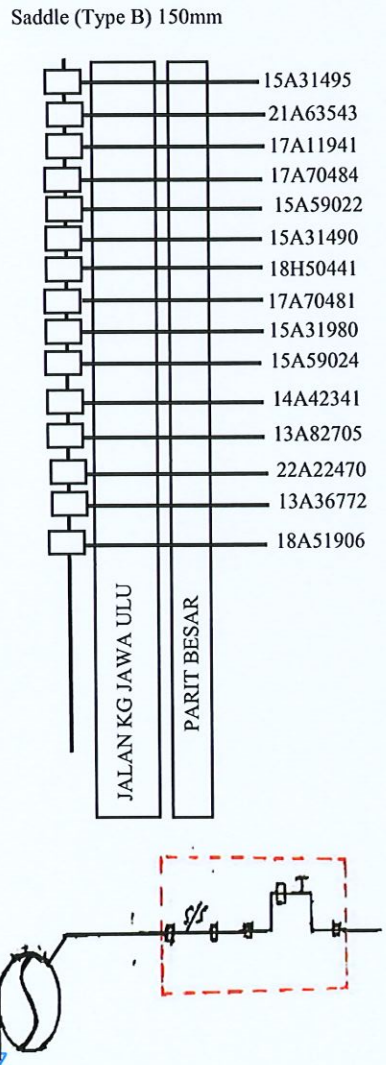
CHAINAGE	EXC. DEPTH

SITE CLEARANCE	sq.m	
BULK EXCAVATION		
All material	cu.m	
Rock	cu.m	
Compact material	cu.m	
FILLING		
Approved Material	cu.m	
Sand	cu.m	
Laterite (150mm)	sq.m	
Sand Bedding	sq.m	
Concrete	cu.m	
TURFING		
Top Soil (50mm)	sq.m	
Turfing	sq.m	

CHAMBER		
Type	Set	Middle
CHIPPING	sq.m	

PILING		
Kayu Bakau	m	
Type of Pile	UPVC	
Size	mm	80
Length (Initial)	m	
Length (Extention)	m	
Join Welding	nos	
Cut Pile (1m)	nos	
Linatex Rubber	sq.m	
MS Strap / Bracing	nos	

SKETCHED DRWG.



TRECH EXCAVATION		
a) Depth < 1.8 m	m	
b) Depth > 1.8 m < 3.0 m	m	
c) Road Cutting	m	
d) Track/Gravel/Earth Road	sq.m	
e) Concrete Surface	sq.m	
f) Cross Hedges/Fences/Wall	sq.m	
g) Road Kerb	m	
h) Under water earth drain	sq.m	
i) Under concrete drain/culvert	sq.m	
j) In rock	cu.m	
k) Unsuitable Material	cu.m	
REINSTATEMENT ROAD		
a) Sand Filling	cu.m	
b) Crusher Run	sq.m	
c) Binder Course	sq.m	
d) Wearing Course	sq.m	
e) Milling/Resurfacing	sq.m	
f)Thermoplastic Line Marking	m	

PIPE	DIA.(mm)	NOS	L (m)
HDPE	25	-	125.70
S/STEEL	20	-	0.00

EXPOSE PIPE & SPECIAL		
	m	
	m	
	nos	
	nos	
	nos	
	sq.m	

SPECIAL / FITTINGS		
150MM SADDLE (TYPE B)	nos	
20MM METER STAND	nos	15.00
ELECTRO FUSION (30)	nos	

Prepared By :

Checked and Approved By

Date : 24/1/2023

MUHAMAD AZRI BIN ABDUL AZIZ
INSPEKTOR KONTRAK PONTIAN
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

JALUR CAHAYA SDN BHD 599034-X

ZAIDI BIN ABDULLAH SATARI
Engineer

Comments / Reports

NORSIAWATI BINTI ALI
EKSEKUTIF
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

RSAJ P-B107.Rev.4

Ranhill SAJ

DATA TAPPING DAN PAIP PERHUBUNGAN

PROGRAM PENGGANTIAN PAIP LAMA TAHUN 2020

Nama Projek : PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020

Nama Kontraktor : JALUR CAHAYA SDN BHD

Bil	Pipe	Size (mm)	No. Meter	No Rumah	Comm Pipe (m)		Lintas Parit		Bawah Jalan			Korekan (m2)			Catatan
					PA Pipe (m)	Poly Pipe (m)	GI Sleeve (m)	Stanless Steel (m)	Open Trench (m)	GI Sleeve (m)	Impact Molling	Jubin	Konkrit	Longkang	
1	UPVC	150	18A51906			8.80									
2	UPVC	150	13A36772			7.50									
3	UPVC	150	22A22470			9.60									
4	UPVC	150	13A82705			8.40									
5	UPVC	150	14A42341			8.50									
6	UPVC	150	15A59024			8.00									
7	UPVC	150	15A31980			10.00									
8	UPVC	150	17A70481			11.80									
9	UPVC	150	18H50441			7.40									
10	UPVC	150	15A31490			7.70									
11	UPVC	150	15A59022			9.50									
12	UPVC	150	17A70484			8.00									
13	UPVC	150	17A11941			7.50									
14	UPVC	150	21A63543			6.00									
15	UPVC	150	15A31495			7.00									
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
					0.00	125.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Disediakan Oleh :

Kontraktor

Cop :

Disemak Oleh :

Inspektor Kontrak (D)

Cop : MUHAMAD AZRI BIN ABDUL AZIZ
INSPEKTOR KONTRAK PONTIAN
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

Disahkan Oleh :

Eksekutif

Cop : NORSHAWATI BINTI ALI
EKSEKUTIF
JABATAN PROJEK
RANHILL SAJ SDN. BHD.

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

ELECTRO-FUSION MACHINE REPORT (COMM PIPE)

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 - API API
DATE	14/1/2023 (SABTU)
LOCATION	7 - JALAN KG JAWA ULU

358	14.01.23	09:28	27.4°C	FR	CPL	25 mm	28.0 V	0028 s/0028 s	3.759 Ohm	5.6 kJ	OK
359	14.01.23	09:36	28.3°C	FR	CPL	25 mm	28.0 V	0028 s/0028 s	3.719 Ohm	5.6 kJ	OK
360	14.01.23	09:43	28.4°C	FR	CPL	25 mm	28.0 V	0028 s/0028 s	3.728 Ohm	5.6 kJ	OK
361	14.01.23	09:53	29.5°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.712 Ohm	5.6 kJ	OK
362	14.01.23	10:00	29.6°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.713 Ohm	5.5 kJ	OK
363	14.01.23	10:08	29.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.748 Ohm	5.4 kJ	OK
364	14.01.23	11:34	35.9°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.738 Ohm	5.4 kJ	OK
365	14.01.23	11:41	35.0°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.764 Ohm	5.4 kJ	OK
366	14.01.23	11:48	33.6°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.698 Ohm	5.5 kJ	OK
367	14.01.23	11:55	32.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.696 Ohm	5.5 kJ	OK
368	14.01.23	12:02	32.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.741 Ohm	5.4 kJ	OK
369	14.01.23	12:08	33.4°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.683 Ohm	5.5 kJ	OK
370	14.01.23	12:14	33.1°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.744 Ohm	5.4 kJ	OK
371	14.01.23	12:21	32.3°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.729 Ohm	5.4 kJ	OK
372	14.01.23	12:27	31.8°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.757 Ohm	5.4 kJ	OK
373	14.01.23	12:33	33.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.717 Ohm	5.5 kJ	OK
374	14.01.23	12:40	33.4°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.746 Ohm	5.4 kJ	OK
375	14.01.23	12:46	34.1°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.721 Ohm	5.4 kJ	OK
376	14.01.23	12:53	33.0°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.729 Ohm	5.4 kJ	OK
377	14.01.23	13:00	33.9°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.697 Ohm	5.5 kJ	OK
378	14.01.23	13:48	36.3°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.757 Ohm	5.4 kJ	OK
379	14.01.23	13:54	34.8°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.741 Ohm	5.4 kJ	OK
380	14.01.23	14:01	33.9°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.708 Ohm	5.5 kJ	OK
381	14.01.23	14:07	33.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.745 Ohm	5.4 kJ	OK
382	14.01.23	14:19	33.3°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.749 Ohm	5.4 kJ	OK
383	14.01.23	14:25	34.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.727 Ohm	5.4 kJ	OK
384	14.01.23	14:55	34.6°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.722 Ohm	5.5 kJ	OK
385	14.01.23	15:03	34.7°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.750 Ohm	5.4 kJ	OK
386	14.01.23	15:09	34.0°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.708 Ohm	5.5 kJ	OK
387	14.01.23	15:15	33.4°C	FR	CPL	25 mm	28.0 V	0027 s/0027 s	3.737 Ohm	5.4 kJ	OK

Disediakan Oleh:	Disemak Oleh:	Disahkan Oleh:
Kontraktor	Inspektor Kontrak (D)	Eksekutif
ZAIDI BIN ABDULLAH SATARI Engineer	MUHAMAD AZRI BIN ABDUL AZIZ INSPEKTOR KONTRAK PONTIAN JABATAN PROJEK RANHILL SAJ SDN. BHD.	NORHIL AWATI BINTI ALI EKSEKUTIF JABATAN PROJEK RANHILL SAJ SDN. BHD.

Ranhill SAJ

Form No: JK/PT – 05
Rev Date: 23/06/2022

BORANG PEMERIKSAAN VISUAL (*ELECTRO-FUSION*)

Projek:	PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 - PAKEJ 2
Nama :	SHARUDIN BIN HASSAN
No sijil:	199
Nama syarikat:	JALUR CAHAYA SDN BHD
Tarikh dan Masa:	14 / 1 / 2023

KRITERIA	✓	X
KEADAAN TAPAK		
Kawasan tapak berada dalam keadaan yang bersih dan kering.	/	
KEADAAN BAHAN DAN PERALATAN		
Peralatan berada dalam keadaan baik dan bersih.	/	
Fittings berada dalam bungkusan? Jika ya, periksa *fittings* jika terdapat kerosakan. Jika tidak, reject *fittings*.	/	
Peralatan adalah mencukupi sebelum kerja penyambungan dilakukan.	/	
- *Fusion machine*	/	
- *Universal pipe cutter*	/	
- *Rotational pipe scrapper*	/	
- *Marker*	/	
- *Isopropyl Alcohol (IPA)*	/	
- Kain bersih	/	
- *Generator*		
Kawasan penyambungan paip berada dalam keadaan yang bersih dan kering.	/	
PEMERIKSAAN SELEPAS PROSES PENYAMBUNGAN *ELECTRO-FUSION*		

1) *Melt indicator* pada *fittings* timbul.

Nama Jalan: PN 12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 358	/		Joint No. = 368	/	
Joint No. = 359	/		Joint No. = 369	/	
Joint No. = 360	/		Joint No. = 370	/	
Joint No. = 361	/		Joint No. = 371	/	
Joint No. = 362	/		Joint No. = 372	/	
Joint No. = 363	/		Joint No. = 373	/	
Joint No. = 364	/		Joint No. = 374	/	
Joint No. = 365	/		Joint No. = 375	/	
Joint No. = 366	/		Joint No. = 376	/	
Joint No. = 367	/		Joint No. = 377	/	

2) Hujung paip dipotong dengan tegak dan lurus.

Nama Jalan: PN 12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 358	/		Joint No. = 368	/	
Joint No. = 359	/		Joint No. = 369	/	
Joint No. = 360	/		Joint No. = 370	/	
Joint No. = 361	/		Joint No. = 371	/	
Joint No. = 362	/		Joint No. = 372	/	
Joint No. = 363	/		Joint No. = 373	/	
Joint No. = 364	/		Joint No. = 374	/	
Joint No. = 365	/		Joint No. = 375	/	
Joint No. = 366	/		Joint No. = 376	/	
Joint No. = 367	/		Joint No. = 377	/	

3) Penyambungan paip yang dilakukan berada dalam keadaan selari.

Nama Jalan: PN 12/7 - JLN KG JAWA ULU

		✓	X			✓	X
Joint No. =	358	/		Joint No. =	368	/	
Joint No. =	359	/		Joint No. =	369	/	
Joint No. =	360	/		Joint No. =	370	/	
Joint No. =	361	/		Joint No. =	371	/	
Joint No. =	362	/		Joint No. =	372	/	
Joint No. =	363	/		Joint No. =	373	/	
Joint No. =	364	/		Joint No. =	374	/	
Joint No. =	365	/		Joint No. =	375	/	
Joint No. =	366	/		Joint No. =	376	/	
Joint No. =	367	/		Joint No. =	377	/	

4) Kawasan yang telah dikikis (*scrapped*) boleh dilihat.

Nama Jalan: PN 12/7 - JLN KG JAWA ULU

		✓	X			✓	X
Joint No. =	358	/		Joint No. =	368	/	
Joint No. =	359	/		Joint No. =	369	/	
Joint No. =	360	/		Joint No. =	370	/	
Joint No. =	361	/		Joint No. =	371	/	
Joint No. =	362	/		Joint No. =	372	/	
Joint No. =	363	/		Joint No. =	373	/	
Joint No. =	364	/		Joint No. =	374	/	
Joint No. =	365	/		Joint No. =	375	/	
Joint No. =	366	/		Joint No. =	376	/	
Joint No. =	367	/		Joint No. =	377	/	

5) Tanda pada paip (*penetration depth*) tepat dan boleh dilihat.

Nama Jalan: PN 12/9 - JLN KG JAWA ULU

		✓	X			✓	X
Joint No. =	358	/		Joint No. =	368	/	
Joint No. =	359	/		Joint No. =	369	/	
Joint No. =	360	/		Joint No. =	370	/	
Joint No. =	361	/		Joint No. =	371	/	
Joint No. =	362	/		Joint No. =	372	/	
Joint No. =	363	/		Joint No. =	373	/	
Joint No. =	364	/		Joint No. =	374	/	
Joint No. =	365	/		Joint No. =	375	/	
Joint No. =	366	/		Joint No. =	376	/	
Joint No. =	367	/		Joint No. =	377	/	

6) Tiada kesan percikan paip yang telah cair atau apa-apa kerosakan pada permukaan luar paip yang telah disambung.

Nama Jalan: PN 12/7 - JLN KG JAWA ULU

		✓	X			✓	X
Joint No. =	358	/		Joint No. =	368	/	
Joint No. =	359	/		Joint No. =	369	/	
Joint No. =	360	/		Joint No. =	370	/	
Joint No. =	361	/		Joint No. =	371	/	
Joint No. =	362	/		Joint No. =	372	/	
Joint No. =	363	/		Joint No. =	373	/	
Joint No. =	364	/		Joint No. =	374	/	
Joint No. =	365	/		Joint No. =	375	/	
Joint No. =	366	/		Joint No. =	376	/	
Joint No. =	367	/		Joint No. =	377	/	

7) Paip dan *fittings* yang disambung dibiarkan untuk sejuk mengikut tempoh masa yang ditetapkan.

Nama Jalan: PN 12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 358	/		Joint No. = 368	/	
Joint No. = 359	/		Joint No. = 369	/	
Joint No. = 360	/		Joint No. = 370	/	
Joint No. = 361	/		Joint No. = 371	/	
Joint No. = 362	/		Joint No. = 372	/	
Joint No. = 363	/		Joint No. = 373	/	
Joint No. = 364	/		Joint No. = 374	/	
Joint No. = 365	/		Joint No. = 375	/	
Joint No. = 366	/		Joint No. = 376	/	
Joint No. = 367	/		Joint No. = 377	/	

ADAKAH PENYAMBUNGAN *ELECTRO-FUSION* INI DITERIMA?
(Jika TIDAK, sila nyatakan ulasan di ruangan yang disediakan)

	✓	X		✓	X
Joint No. = 358	/		Joint No. = 368	/	
Joint No. = 359	/		Joint No. = 369	/	
Joint No. = 360	/		Joint No. = 370	/	
Joint No. = 361	/		Joint No. = 371	/	
Joint No. = 362	/		Joint No. = 372	/	
Joint No. = 363	/		Joint No. = 373	/	
Joint No. = 364	/		Joint No. = 374	/	
Joint No. = 365	/		Joint No. = 375	/	
Joint No. = 366	/		Joint No. = 376	/	
Joint No. = 367	/		Joint No. = 377	/	

Ulasan:

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Dikendalikan oleh:	Diperiksa dan disahkan oleh:
Tandatangan:	Tandatangan:
Nama Kontraktor: SHAHRUDIN B. HASSAN	Nama Kontrak Inspektor: MUHAMAD AZRI BIN ABDUL AZIZ INSPEKTOR KONTRAK PONTIAN
No. Anggota: 199	No. Anggota: JABATAN PROJEK RANHILL SAJ SDN. BHD.
Tarikh: 14/01/2023	Tarikh: 14/1/2023

**Dokumen yang perlu diserahkan kepada *Contract Inspector*: Gambar penyambungan dan laporan daripada *Data Logger*.

CAHAYA JALUR SDN BHD 599034-X

ZAIDI BIN ABDULLAH SATARI
Engineer

Ranhill SAJ

Form No: JK/PT – 05
Rev Date: 23/06/2022

BORANG PEMERIKSAAN VISUAL (*ELECTRO-FUSION*)

Projek:	PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 - PAKEJ 2
Nama :	SHARUDIN BIN HASSAN
No sijil:	199
Nama syarikat:	JALUR CAHAYA SDN BHD
Tarikh dan Masa:	14/1/2023

KRITERIA	✓	X
KEADAAN TAPAK		
Kawasan tapak berada dalam keadaan yang bersih dan kering.	/	
KEADAAN BAHAN DAN PERALATAN		
Peralatan berada dalam keadaan baik dan bersih.	/	
Fittings berada dalam bungkusan? Jika ya, periksa *fittings* jika terdapat kerosakan. Jika tidak, reject *fittings*.	/	
Peralatan adalah mencukupi sebelum kerja penyambungan dilakukan. - *Fusion machine* - *Universal pipe cutter* - *Rotational pipe scrapper* - *Marker* - *Isopropyl Alcohol (IPA)* - Kain bersih - *Generator*	/ / / / / / /	
Kawasan penyambungan paip berada dalam keadaan yang bersih dan kering.	/	

PEMERIKSAAN SELEPAS PROSES PENYAMBUNGAN *ELECTRO-FUSION*

1) *Melt indicator* pada *fittings* timbul.

Nama Jalan: PN12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 378	/		Joint No. =		
Joint No. = 379	/		Joint No. =		
Joint No. = 380	/		Joint No. =		
Joint No. = 381	/		Joint No. =		
Joint No. = 382	/		Joint No. =		
Joint No. = 383	/		Joint No. =		
Joint No. = 384	/		Joint No. =		
Joint No. = 385	/		Joint No. =		
Joint No. = 386	/		Joint No. =		
Joint No. = 387	/		Joint No. =		

2) Hujung paip dipotong dengan tegak dan lurus.

Nama Jalan: PN12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 378	/		Joint No. =		
Joint No. = 379	/		Joint No. =		
Joint No. = 380	/		Joint No. =		
Joint No. = 381	/		Joint No. =		
Joint No. = 382	/		Joint No. =		
Joint No. = 383	/		Joint No. =		
Joint No. = 384	/		Joint No. =		
Joint No. = 385	/		Joint No. =		
Joint No. = 386	/		Joint No. =		
Joint No. = 387	/		Joint No. =		

3) Penyambungan paip yang dilakukan berada dalam keadaan selari.

Nama Jalan: PN12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 378	/		Joint No. =		
Joint No. = 379	/		Joint No. =		
Joint No. = 380	/		Joint No. =		
Joint No. = 381	/		Joint No. =		
Joint No. = 382	/		Joint No. =		
Joint No. = 383	/		Joint No. =		
Joint No. = 384	/		Joint No. =		
Joint No. = 385	/		Joint No. =		
Joint No. = 386	/		Joint No. =		
Joint No. = 387	/		Joint No. =		

4) Kawasan yang telah dikikis (*scrapped*) boleh dilihat.

Nama Jalan: PN12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 378	/		Joint No. =		
Joint No. = 379	/		Joint No. =		
Joint No. = 380	/		Joint No. =		
Joint No. = 381	/		Joint No. =		
Joint No. = 382	/		Joint No. =		
Joint No. = 383	/		Joint No. =		
Joint No. = 384	/		Joint No. =		
Joint No. = 385	/		Joint No. =		
Joint No. = 386	/		Joint No. =		
Joint No. = 387	/		Joint No. =		

5) Tanda pada paip (*penetration depth*) tepat dan boleh dilihat.

Nama Jalan: PN12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 378	/		Joint No. =		
Joint No. = 379	/		Joint No. =		
Joint No. = 380	/		Joint No. =		
Joint No. = 381	/		Joint No. =		
Joint No. = 382	/		Joint No. =		
Joint No. = 383	/		Joint No. =		
Joint No. = 384	/		Joint No. =		
Joint No. = 385	/		Joint No. =		
Joint No. = 386	/		Joint No. =		
Joint No. = 387	/		Joint No. =		

6) Tiada kesan percikan paip yang telah cair atau apa-apa kerosakan pada permukaan luar paip yang telah disambung.

Nama Jalan: PN12/7 - JLN KG JAWA ULU

	✓	X		✓	X
Joint No. = 378	/		Joint No. =		
Joint No. = 379	/		Joint No. =		
Joint No. = 380	/		Joint No. =		
Joint No. = 381	/		Joint No. =		
Joint No. = 382	/		Joint No. =		
Joint No. = 383	/		Joint No. =		
Joint No. = 384	/		Joint No. =		
Joint No. = 385	/		Joint No. =		
Joint No. = 386	/		Joint No. =		
Joint No. = 387	/		Joint No. =		

7) Paip dan *fittings* yang disambung dibiarkan untuk sejuk mengikut tempoh masa yang ditetapkan.					
Nama Jalan: PN12/7 - JLN KG JAWA ULU					
	✓	X		✓	X
Joint No. = 378	/		Joint No. =		
Joint No. = 379	/		Joint No. =		
Joint No. = 380	/		Joint No. =		
Joint No. = 381	/		Joint No. =		
Joint No. = 382	/		Joint No. =		
Joint No. = 383	/		Joint No. =		
Joint No. = 384	/		Joint No. =		
Joint No. = 385	/		Joint No. =		
Joint No. = 386	/		Joint No. =		
Joint No. = 387	/		Joint No. =		
ADAKAH PENYAMBUNGAN *ELECTRO-FUSION* INI DITERIMA? (Jika TIDAK, sila nyatakan ulasan di ruangan yang disediakan)					
	✓	X		✓	X
Joint No. = 378	/		Joint No. =		
Joint No. = 379	/		Joint No. =		
Joint No. = 380	/		Joint No. =		
Joint No. = 381	/		Joint No. =		
Joint No. = 382	/		Joint No. =		
Joint No. = 383	/		Joint No. =		
Joint No. = 384	/		Joint No. =		
Joint No. = 385	/		Joint No. =		
Joint No. = 386	/		Joint No. =		
Joint No. = 387	/		Joint No. =		

Ulasan:

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.....

Dikendalikan oleh:	Diperiksa dan disahkan oleh:
Tandatangan:	Tandatangan:
Nama Kontraktor: SHAHRUDIN B. HASSAN	Nama Kontrak Inspektor: MUHAMAD AZRI BIN ABDUL AZIZ INSPEKTOR KONTRAK PONTIAN
No. Anggota: 199	No. Anggota: JABATAN PROJEK RANHILL SAJ SDN. BHD.
Tarikh: 14/01/2023	Tarikh: 14/1/2023

**Dokumen yang perlu diserahkan kepada *Contract Inspector*: Gambar penyambungan dan laporan daripada *Data Logger*.

JALUR CAHAYA SDN BHD 59034-X

ZAIDI BIN ABDULLAH SATARI
Engineer

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

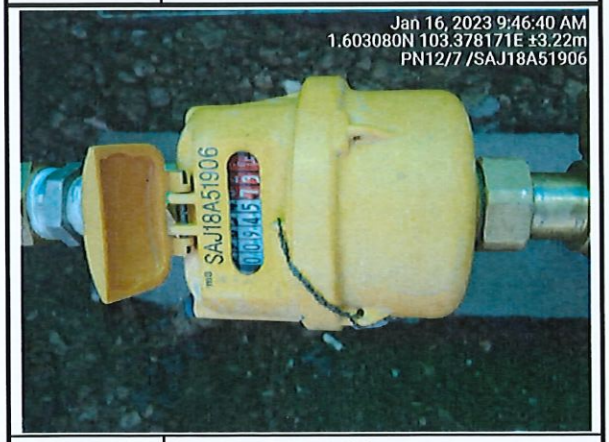
SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	14/1/2022 ~~(RABU)~~ SABTU
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : 18A51906
	No. rumah :
	Semasa kerja (EF)
	Joint number: 358

REMARKS	No. meter : 18A51906
	No. rumah :
	Semasa kerja (EF)
	Joint number: 359

REMARKS	No. meter : 18A51906
	No. rumah :
	Selepas kerja

REMARKS	No. meter : 18A51906
	No. rumah :
	Selepas kerja



REMARKS	No. meter : 18A51906
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

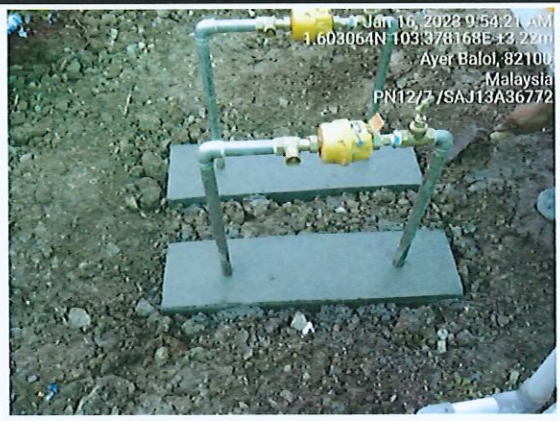
COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	14/1/2022 (RABU)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 13A36772
	No. rumah :
	Semasa kerja (EF)
	Joint number: 360

REMARKS	No. meter : SAJ 13A36772
	No. rumah :
	Semasa kerja (EF)
	Joint number: 361

REMARKS	No. meter : SAJ 13A36772
	No. rumah :
	Selepas kerja



REMARKS	No. meter : SAJ 13A36772
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 13A36772
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	14/1/2022 ~~(RABU)~~ SABTU
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 22A22470
	No. rumah :
	Semasa kerja (EF)
	Joint number: 362

REMARKS	No. meter : SAJ 22A22470
	No. rumah :
	Semasa kerja (EF)
	Joint number: 363

REMARKS	No. meter : SAJ 22A22470
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 22A22470
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 22A22470
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	14/1/2022 ~~(RABU)~~ SABTU
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 13A82705
	No. rumah :
	Semasa kerja (EF)
	Joint number: 364

REMARKS	No. meter : SAJ 13A82705
	No. rumah :
	Semasa kerja (EF)
	Joint number: 365

REMARKS	No. meter : SAJ 13A82705
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 13A82705
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 13A82705
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

COMMUNICATION PIPE WORKS

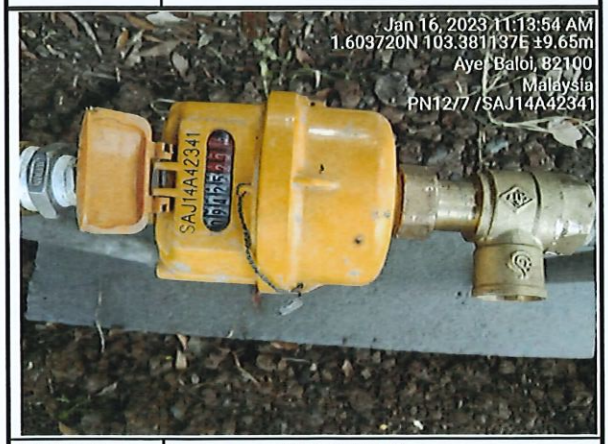
SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	14/1/2022 ~~(SABTU)~~ SABTU
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 14A42341
	No. rumah :
	Semasa kerja (EF)
	Joint number: 366

REMARKS	No. meter : SAJ 14A42341
	No. rumah :
	Semasa kerja (EF)
	Joint number: 367

REMARKS	No. meter : SAJ 14A42341
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 14A42341
	No. rumah :
	Selepas kerja



REMARKS	No. meter : SAJ 14A42341
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

Ranhill SAJ

JC

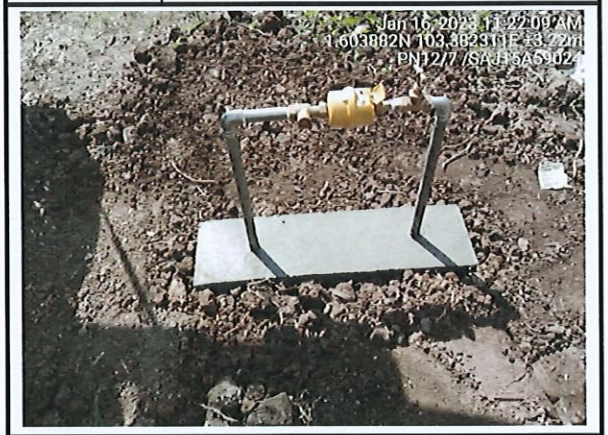
COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	14/1/2022 (SABTU)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 15A59024
	No. rumah :
	Semasa kerja (EF)
	Joint number: 368

REMARKS	No. meter : SAJ 15A59024
	No. rumah :
	Semasa kerja (EF)
	Joint number: 369

REMARKS	No. meter : SAJ 15A59024
	No. rumah :
	Selepas kerja



REMARKS	No. meter : SAJ 15A59024
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 15A59024
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	14/1/2022 (SABTU)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 15A31980
	No. rumah :
	Semasa kerja (EF)
	Joint number: 370

REMARKS	No. meter : SAJ 15A31980
	No. rumah :
	Semasa kerja (EF)
	Joint number: 371

REMARKS	No. meter : SAJ 15A31980
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 15A31980
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 15A31980
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	14/1/2022 (SABTU)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 17A70481
	No. rumah :
	Semasa kerja (EF)
	Joint number: 372

REMARKS	No. meter : SAJ 17A70481
	No. rumah :
	Semasa kerja (EF)
	Joint number: 373

REMARKS	No. meter : SAJ 17A70481
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 17A70481
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 17A70481
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

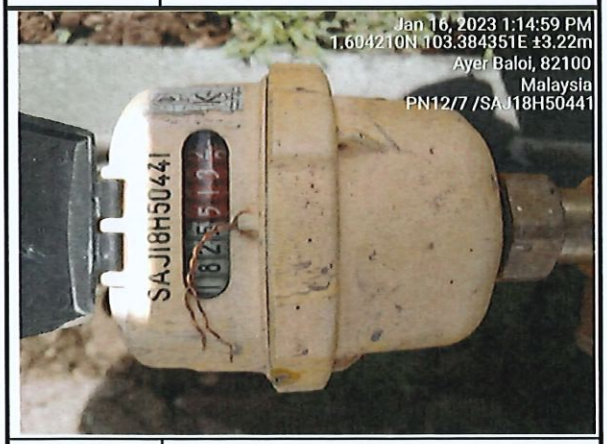
SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	14/1/2022 (SABTU)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 18H50441
	No. rumah :
	Semasa kerja (EF)
	Joint number: 374

REMARKS	No. meter : SAJ 18H50441
	No. rumah :
	Semasa kerja (EF)
	Joint number: 375

REMARKS	No. meter : SAJ 18H50441
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 18H50441
	No. rumah :
	Selepas kerja



REMARKS	No. meter : SAJ 18H50441
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR
PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	14/1/2022 (SABTU)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 15A31490
	No. rumah :
	Semasa kerja (EF)
	Joint number: 376

REMARKS	No. meter : SAJ 15A31490
	No. rumah :
	Semasa kerja (EF)
	Joint number: 377

REMARKS	No. meter : SAJ 15A31490
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 15A31490
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 15A31490
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	14/1/2022 (SABTU)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 15A59022
	No. rumah :
	Semasa kerja (EF)
	Joint number: 378

REMARKS	No. meter : SAJ 15A59022
	No. rumah :
	Semasa kerja (EF)
	Joint number: 379

REMARKS	No. meter : SAJ 15A59022
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 15A59022
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 15A59022
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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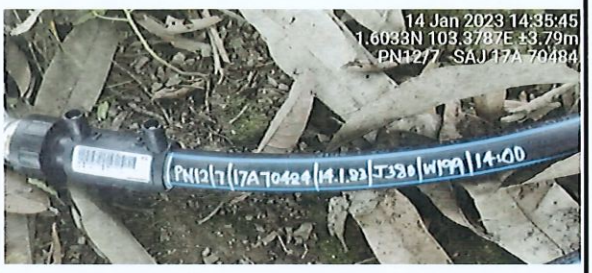
COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	14/1/2022 (SABTU)
LOCATION	7- JALAN KG JAWA ULU



REMARKS	No. meter : SAJ 17A70484
	No. rumah :
	Semasa kerja (EF)
	Joint number: 380

REMARKS	No. meter : SAJ 17A70484
	No. rumah :
	Semasa kerja (EF)
	Joint number: 381

REMARKS	No. meter : SAJ 17A70484
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 17A70484
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 17A70484
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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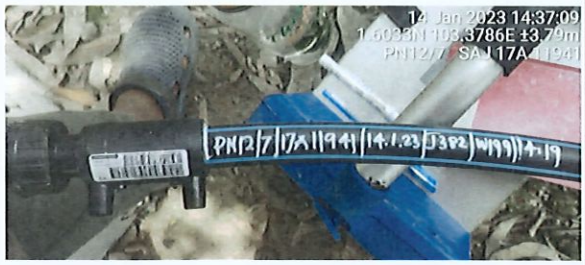
COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	14/1/2022 (SABTU)
LOCATION	7- JALAN KG JAWA ULU



REMARKS	No. meter : SAJ 17A11941
	No. rumah :
	Semasa kerja (EF)
	Joint number: 382

REMARKS	No. meter : SAJ 17A11941
	No. rumah :
	Semasa kerja (EF)
	Joint number: 383

REMARKS	No. meter : SAJ 17A11941
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 17A11941
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 17A11941
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	14/1/2022 (SABTU)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 21A63543
	No. rumah :
	Semasa kerja (EF)
	Joint number: 384

REMARKS	No. meter : SAJ 21A63543
	No. rumah :
	Semasa kerja (EF)
	Joint number: 385

REMARKS	No. meter : SAJ 21A63543
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 21A63543
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 21A63543
	No. rumah :
	Selepas kerja

REMARKS	

PROGRAM PENGGANTIAN PAIP LAMA BAGI TAHUN 2020 DI NEGERI JOHOR PAKEJ 2 : DAERAH JOHOR BAHRU, KULAI, PONTIAN, KOTA TINGGI DAN MERSING

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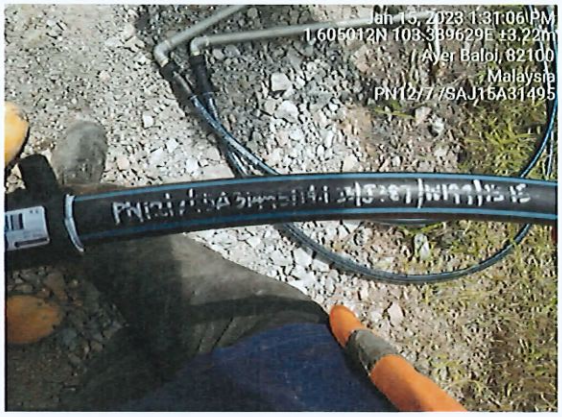
COMMUNICATION PIPE WORKS

SUB PACKAGE	PONTIAN (PTN10)
DMA	PN12 API-API
DATE	14/1/2022 (SABTU)
LOCATION	7- JALAN KG JAWA ULU

REMARKS	No. meter : SAJ 15A31495
	No. rumah :
	Semasa kerja (EF)
	Joint number: 386



REMARKS	No. meter : SAJ 15A31495
	No. rumah :
	Semasa kerja (EF)
	Joint number: 387

REMARKS	No. meter : SAJ 15A31495
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 15A31495
	No. rumah :
	Selepas kerja

REMARKS	No. meter : SAJ 15A31495
	No. rumah :
	Selepas kerja

REMARKS	