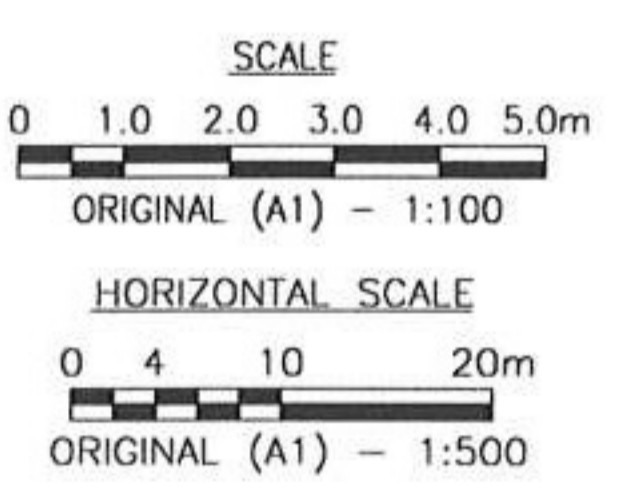




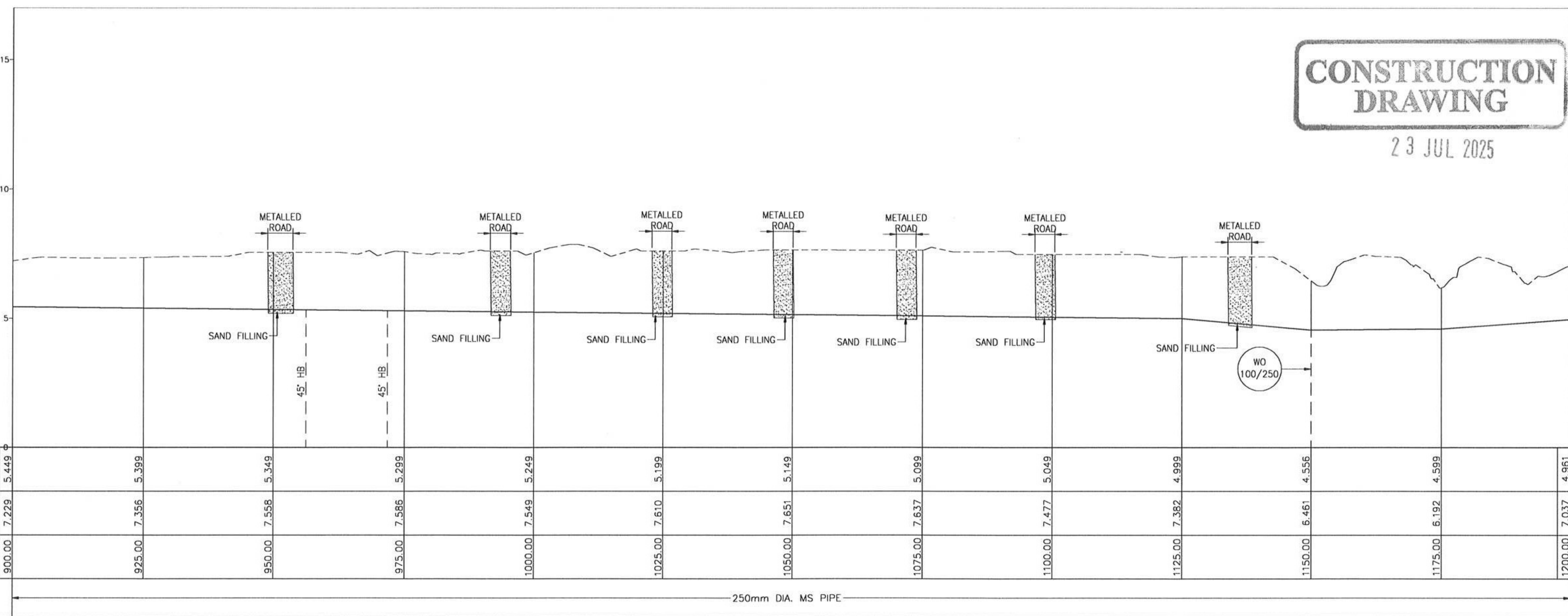
PLAN
SCALE 1:500

- NOTES :
- UNLESS OTHERWISE STATED, ALL LEVELS ARE IN METRES AND DIMENSIONS ARE IN MILLIMETRE.
 - UNLESS OTHERWISE STATED, PIPE SHALL BE LAID AT MINIMUM GRADIENT OF 1:500.
 - ALL PIPES TRENCHES UNDER METALLED ROAD SHALL BE FILLED WITH SAND.
 - DEPTH OF COVER FROM THE GROUND/ROAD TO THE CROWN OF THE PIPE SHALL BE MINIMUM 1.2m.
 - DEPTH OF COVER FROM THE GROUND/ROAD TO THE CROWN OF JACKING SLEEVE SHALL BE MINIMUM 1.5m.
 - ALIGNMENT AND INVERT LEVELS OF PIPELINE SUBJECT TO CHANGE AT SITE TO SUIT AUTHORITIES REQUIREMENT AND SITE CONDITION.
 - THE COORDINATES OF TBM SHOWN ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CHECK AND VERIFY ITS ACCURACY.



DATUM = 0.00m

PIPE INVERT LEVEL (m)	5.449	5.399	5.349	5.299	5.249	5.199	5.149	5.099	5.049	4.999	4.556	4.599	4.961
EXISTING GROUND LEVEL (m)	7.229	7.356	7.558	7.586	7.549	7.610	7.651	7.637	7.477	7.382	6.461	6.192	7.037
CHAINAGE (m)	900.00	925.00	950.00	975.00	1000.00	1025.00	1050.00	1075.00	1100.00	1125.00	1150.00	1175.00	1200.00



LONGITUDINAL PROFILE

CLIENT :
LEMBAGA AIR PERAK
JALAN BASCO KEPAYANG 3
BASCO AVENUE @ KEPAYANG,
31400 IPOH
PERAK DARUL RIDZUAN
TEL : 605 255 1155
FAX : 605 255 6397

CLIENT'S STAMP & SIGNATURE

CONSULTANT:
HLA ASSOCIATES SDN. BHD.
(Company No. 275594-H)
NO. 63 JALAN WANGSA DELIMA 5,
PUSAT BANDAR WANGSA MAJU
53300 KUALA LUMPUR
TEL : 603 4142 2525
FAX : 603 4149 2269
EMAIL : hla@hla-group.com

PROJECT TITLE :
PROJEK PEMBINAAN LOJI RAWATAN AIR KG. GAJAH (PACKAGE PLANT), DAERAH PERAK TENGAH, PERAK DARUL RIDZUAN

APPROVED BY AUTHORITY/UTILITY/SERVICE PROVIDER

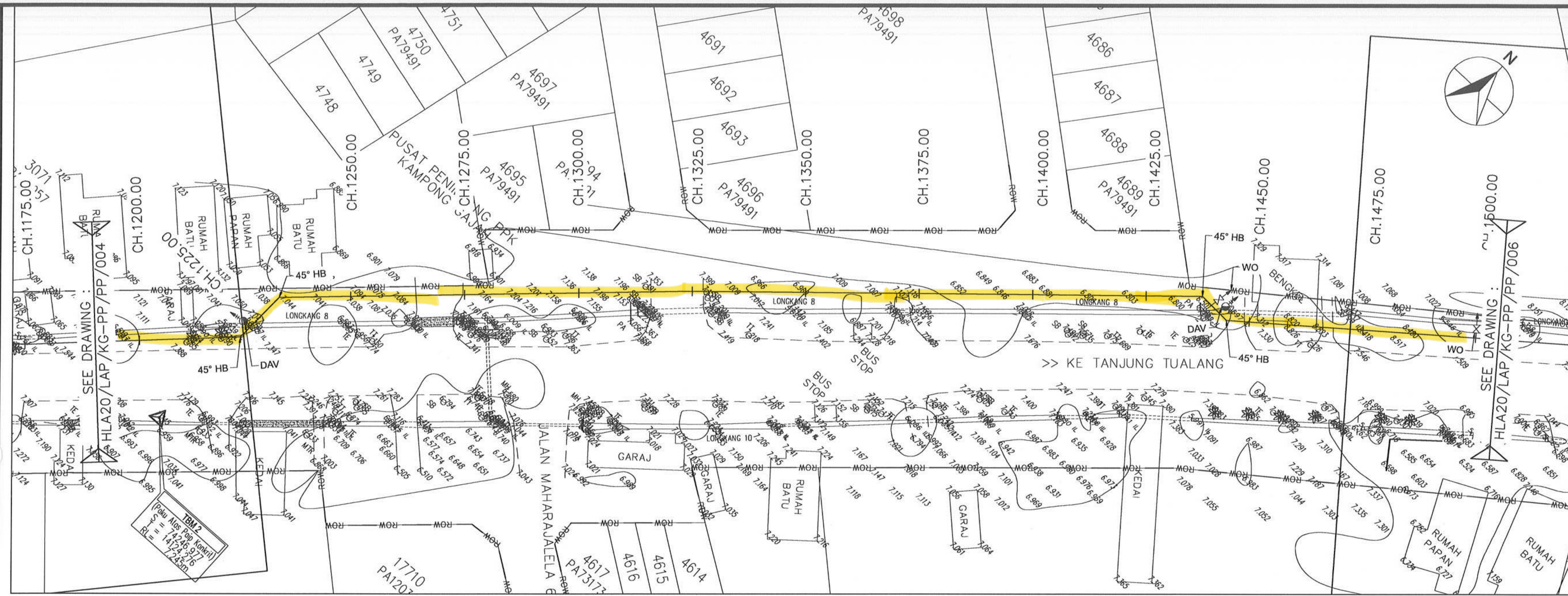
CONSULTANTS CHOP & SIGNATURE

REVISION	DESCRIPTION	DATE

CONTRACT TITLE :

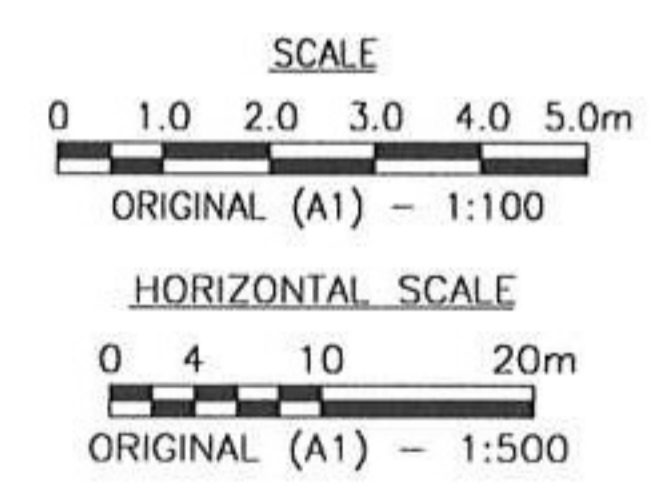
DRAWING TITLE :
**250mm DIA. TREATED WATER PIPELINE
PLAN AND LONGITUDINAL PROFILE
CH. 900.00 - CH. 1200.00**

DATE : JULY 2025	SCALE : AS SHOWN
DRAWN : FMH/AFJ	CHECKED : MSN
DESIGNED : DAZ	APPROVED : Ir. LSG
DRAWING NUMBER : LAP/KG-PP/HLA9528/C/PP/004	REVISION : C0



PLAN
SCALE 1:500

- NOTES :
- UNLESS OTHERWISE STATED, ALL LEVELS ARE IN METRES AND DIMENSIONS ARE IN MILLIMETRE.
 - UNLESS OTHERWISE STATED, PIPE SHALL BE LAID AT MINIMUM GRADIENT OF 1:500.
 - ALL PIPES TRENCHES UNDER METALLED ROAD SHALL BE FILLED WITH SAND.
 - DEPTH OF COVER FROM THE GROUND/ROAD TO THE CROWN OF THE PIPE SHALL BE MINIMUM 1.2m.
 - DEPTH OF COVER FROM THE GROUND/ROAD TO THE CROWN OF JACKING SLEEVE SHALL BE MINIMUM 1.5m.
 - ALIGNMENT AND INVERT LEVELS OF PIPELINE SUBJECT TO CHANGE AT SITE TO SUIT AUTHORITIES REQUIREMENT AND SITE CONDITION.
 - THE COORDINATES OF TBM SHOWN ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CHECK AND VERIFY ITS ACCURACY.



DATUM = 0.00m

PIPE INVERT LEVEL (m)	EXISTING GROUND LEVEL (m)	CHAINAGE (m)	SIZE AND TYPE OF PIPE
4.961	7.037	1200.00	250mm DIA. MS PIPE
5.247	7.020	1219.76	
5.148	7.148	1222.96	
5.250	7.000	1225.00	
5.242	7.148	1226.96	
5.200	7.076	1250.00	250mm DIA. MS PIPE
5.150	7.057	1275.00	
5.100	7.072	1300.00	
5.050	7.193	1325.00	
4.950	7.051	1375.00	
4.900	6.929	1400.00	250mm DIA. MS PIPE
4.850	6.830	1425.00	
4.828	6.658	1435.22	
4.897	6.519	1437.60	
4.897	6.019	1440.74	
4.850	6.313	1443.86	250mm DIA. MS PIPE
4.834	6.364	1445.71	
4.834	7.149	1450.00	
4.793	8.264	1475.00	250mm DIA. MS PIPE
4.743	6.290	1500.00	250mm DIA. MS PIPE

LONGITUDINAL PROFILE

CONSTRUCTION DRAWING

23 JUL 2025

CLIENT :

LEMBAGA AIR PERAK

JALAN BASCO KEPAYANG 3
31400 IPOH
PERAK DARUL RIDZUAN
TEL : 605 255 1155
FAX : 605 255 6397

CLIENT'S STAMP & SIGNATURE

CONSULTANT:

HLA ASSOCIATES SDN. BHD.
(Company No. 275594-H)

NO. 83 JALAN WANGSA DELIMA 5,
PUSAT BANDAR WANGSA MAJU
53300 KUALA LUMPUR
TEL : 603 4142 2525
FAX : 603 4149 2269
EMAIL : hla@hla-group.com

PROJECT TITLE :

PROJEK PEMBINAAN LOJI RAWATAN AIR KG. GAJAH (PACKAGE PLANT), DAERAH PERAK TENGAH, PERAK DARUL RIDZUAN

APPROVED BY AUTHORITY/UTILITY/SERVICE PROVIDER

CONSULTANTS CHOP & SIGNATURE

REVISION	DESCRIPTION	DATE

CONTRACT TITLE :

DRAWING TITLE :

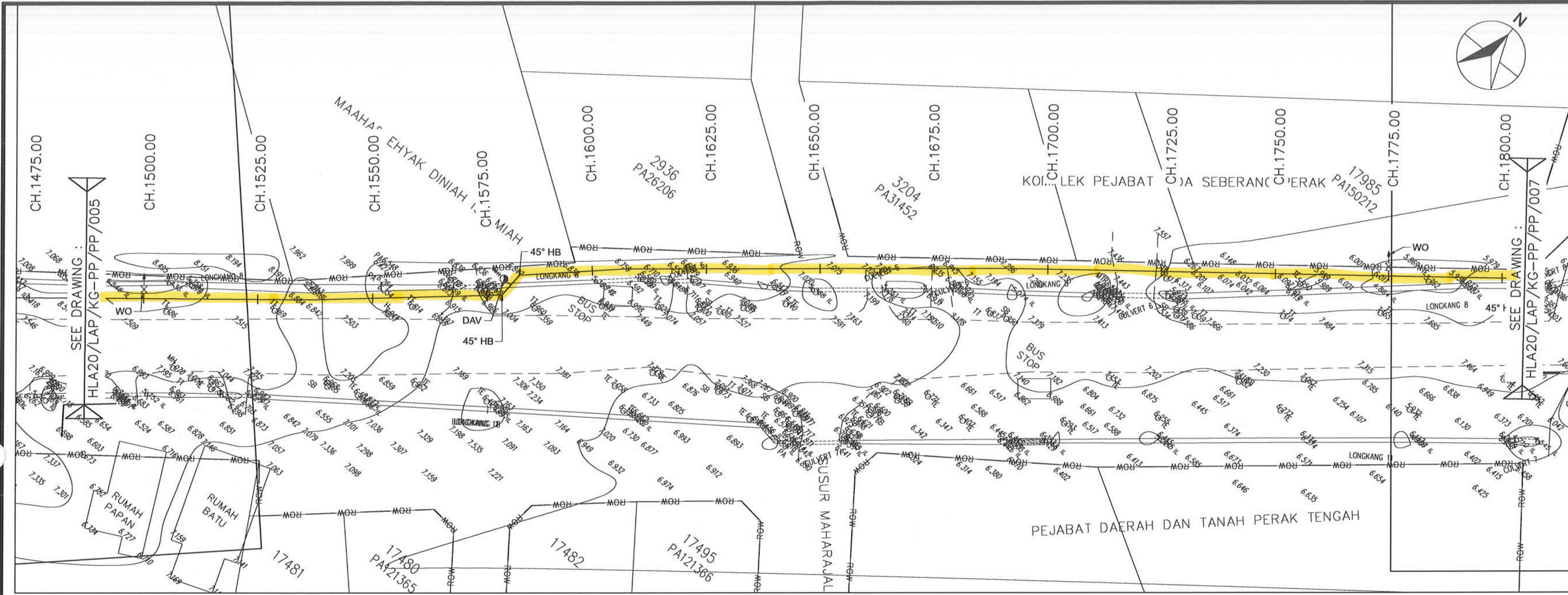
250mm DIA. TREATED WATER PIPELINE

PLAN AND LONGITUDINAL PROFILE
CH. 1200.00 - CH. 1500.00

DATE : JULY 2025	SCALE : AS SHOWN
DRAWN : FMH/AFJ	CHECKED : MSN
DESIGNED : DAZ	APPROVED : Ir. LSG

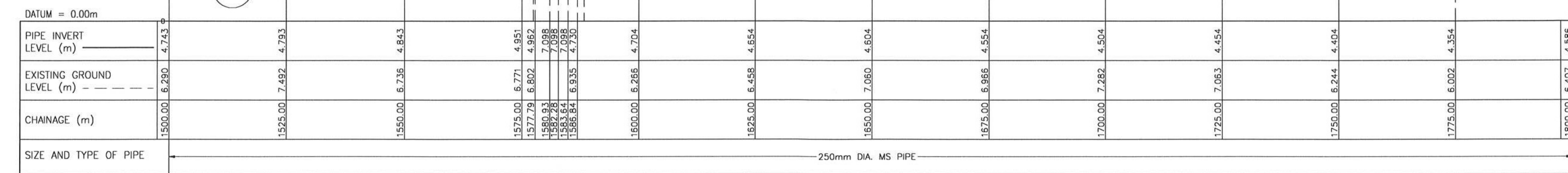
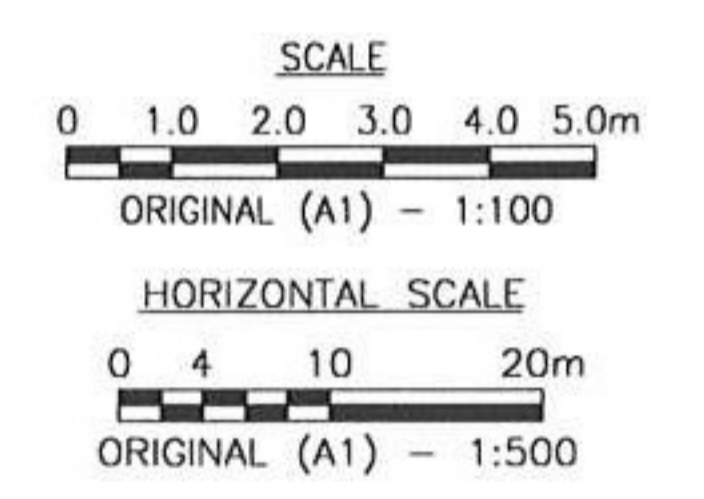
DRAWING NUMBER : LAP/KG-PP/HLA9528/C/PP/005

REVISION : C0



PLAN
SCALE 1:500

- NOTES :
- UNLESS OTHERWISE STATED, ALL LEVELS ARE IN METRES AND DIMENSIONS ARE IN MILLIMETRE.
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 - DEPTH OF COVER FROM THE GROUND/ROAD TO THE CROWN OF JACKING SLEEVE SHALL BE MINIMUM 1.5m.
 - ALIGNMENT AND INVERT LEVELS OF PIPELINE SUBJECT TO CHANGE AT SITE TO SUIT AUTHORITIES REQUIREMENT AND SITE CONDITION.
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LONGITUDINAL PROFILE

CONSTRUCTION DRAWING
23 JUL 2025

CLIENT :
LEMBAGA AIR PERAK
JALAN BASCO KEPAYANG 3
31400 IPOH
PERAK DARUL RIDZUAN
TEL : 605 255 1155
FAX : 605 255 6397

CLIENT'S STAMP & SIGNATURE

CONSULTANT:
HLA ASSOCIATES SDN. BHD.
(Company No. 275594-H)
NO. 83 JALAN WANGSA DELIMA 5,
PUSAT BANDAR WANGSA MAJU
53300 KUALA LUMPUR
TEL : 603 4142 2525
FAX : 603 4149 2269
EMAIL : hla@hla-group.com

PROJECT TITLE :
PROJEK PEMBINAAN LOJI RAWATAN AIR KG. GAJAH (PACKAGE PLANT), DAERAH PERAK TENGAH, PERAK DARUL RIDZUAN

APPROVED BY AUTHORITY/UTILITY/SERVICE PROVIDER

CONSULTANTS CHOP & SIGNATURE

REVISION	DESCRIPTION	DATE

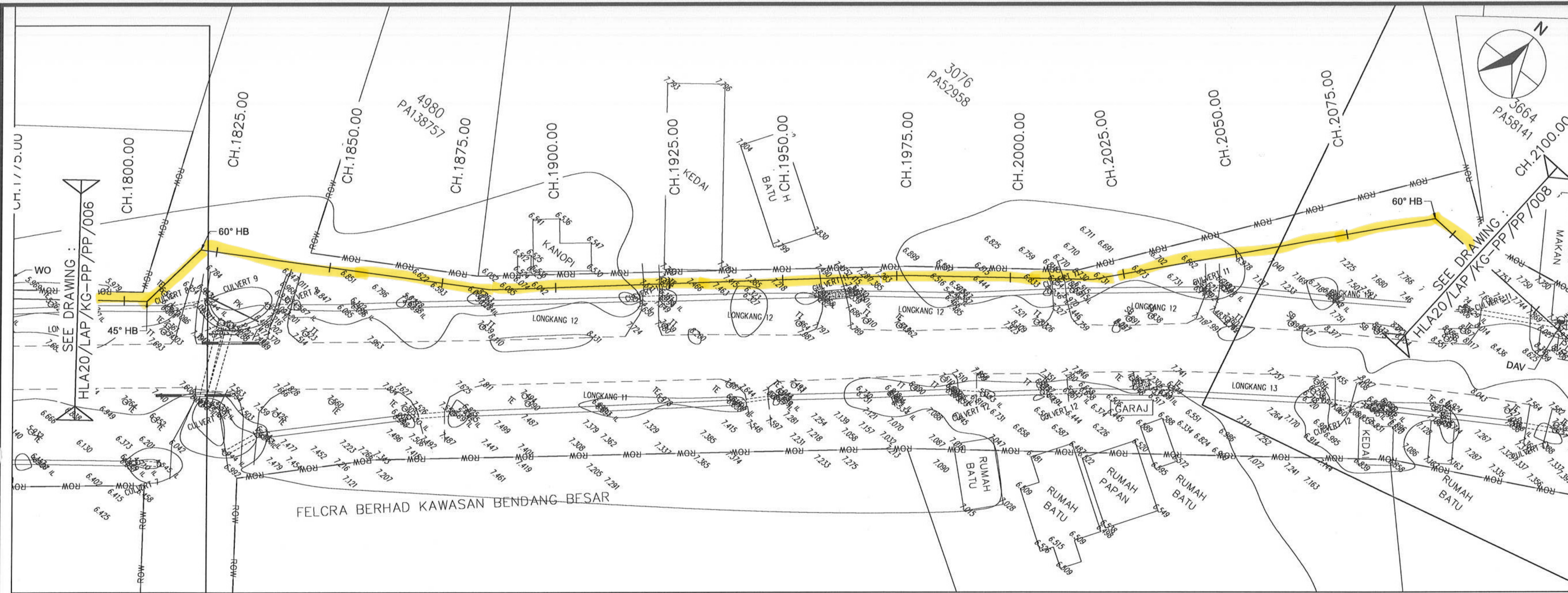
CONTRACT TITLE :

DRAWING TITLE :
250mm DIA. TREATED WATER PIPELINE
PLAN AND LONGITUDINAL PROFILE
CH. 1500.00 - CH. 1800.00

DATE : JULY 2025	SCALE : AS SHOWN
DRAWN : FMH/AFJ	CHECKED : MSN
DESIGNED : DAZ	APPROVED : Ir. LSG

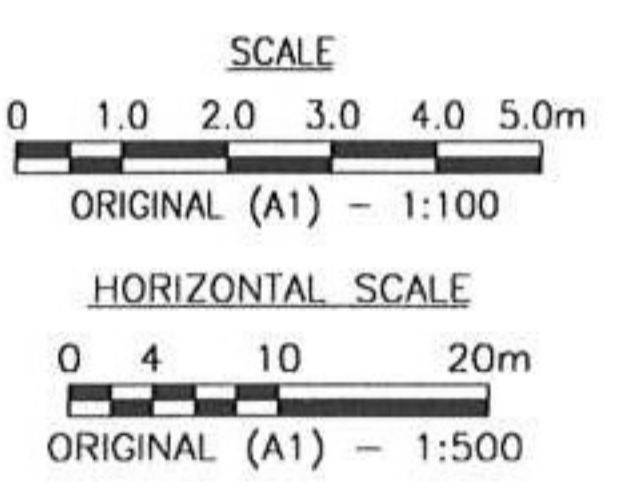
DRAWING NUMBER :
LAP/KG-PP/HLA9528/C/PP/006

REVISION
C0



PLAN
SCALE 1:500

- NOTES :
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PIPE INVERT LEVEL (m)	EXISTING GROUND LEVEL (m)	CHAINAGE (m)	SIZE AND TYPE OF PIPE
4.586	6.407	1800.00	250mm DIA. MS PIPE
4.837	6.585	1825.00	
4.887	6.921	1850.00	
4.937	6.497	1875.00	
4.987	6.781	1900.00	
5.037	7.538	1925.00	
5.087	7.310	1950.00	
5.137	7.049	1975.00	
5.187	6.745	2000.00	
5.237	6.905	2025.00	
5.265	6.999	2050.00	
5.600	7.373	2075.00	
5.934	7.863	2100.00	

LONGITUDINAL PROFILE

CLIENT :

LEMBAGA AIR PERAK
 JALAN BASCO KEPAYANG 3
 BASCO AVENUE @ KEPAYANG,
 31400 IPOH
 PERAK DARUL RIDZUAN
 TEL : 605 255 1155
 FAX : 605 255 6397

CLIENT'S STAMP & SIGNATURE

CONSULTANT:

HLA ASSOCIATES SDN. BHD.
 (Company No 275594-H)
 NO. 83 JALAN WANGSA DELIMA 5,
 PUSAT BANDAR WANGSA MAJU
 53300 KUALA LUMPUR
 TEL : 603 4142 2525
 FAX : 603 4149 2269
 EMAIL : hla@hla-group.com

PROJECT TITLE :
**PROJEK PEMBINAAN LOJI RAWATAN
 AIR KG. GAJAH (PACKAGE PLANT),
 DAERAH PERAK TENGAH, PERAK
 DARUL RIDZUAN**

APPROVED BY AUTHORITY/UTILITY/SERVICE PROVIDER

CONSULTANTS CHOP & SIGNATURE

**CONSTRUCTION
 DRAWING**
 23 JUL 2025

REVISION	DESCRIPTION	DATE

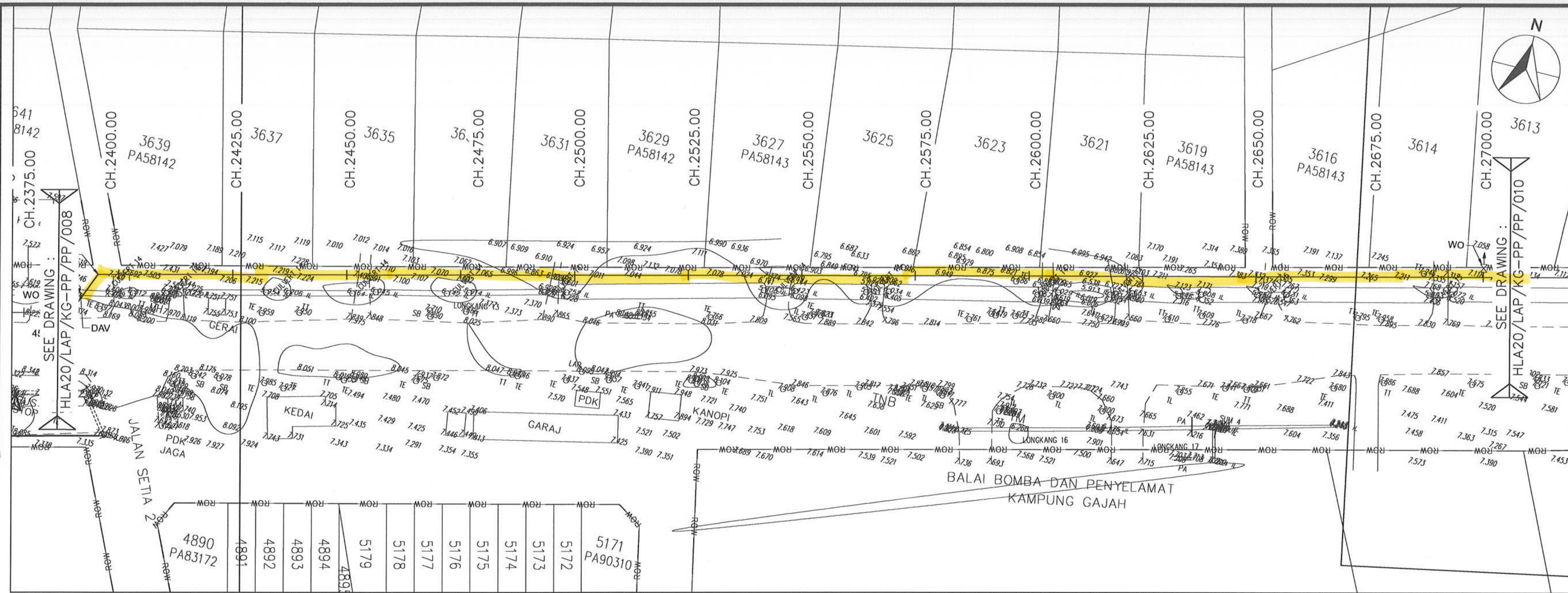
CONTRACT TITLE :

DRAWING TITLE :
**250mm DIA. TREATED
 WATER PIPELINE**
**PLAN AND LONGITUDINAL PROFILE
 CH. 1800.00 - CH. 2100.00**

DATE : JULY 2025	SCALE : AS SHOWN
DRAWN : FMH/AFJ	CHECKED : MSN
DESIGNED : DAZ	APPROVED : Ir. LSG

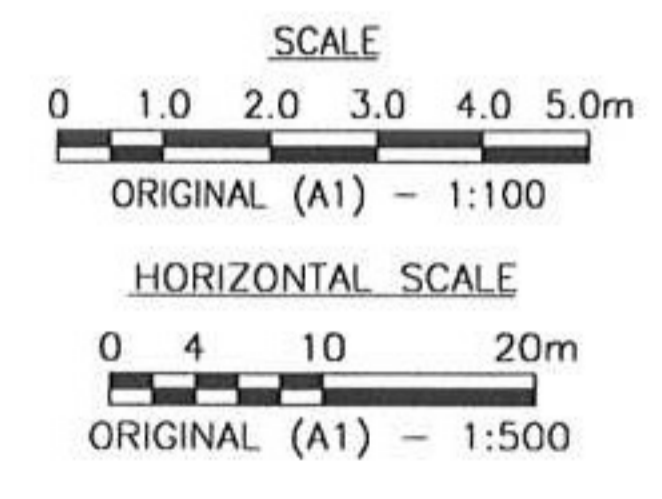
DRAWING NUMBER :
LAP/KG-PP/HLA9528/C/PP/007

REVISION
C0



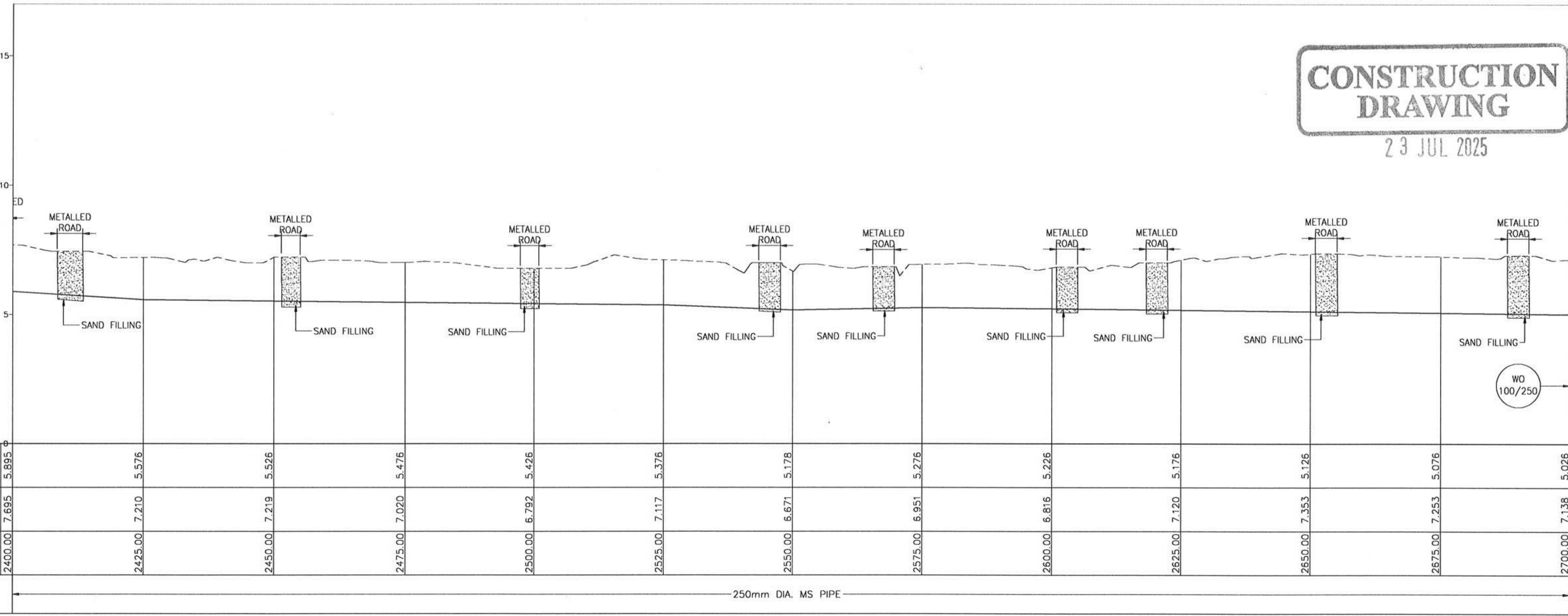
PLAN
SCALE 1:500

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DATUM = 0.00m

PIPE INVERT LEVEL (m)	5.895	5.876	5.826	5.476	5.426	5.376	5.178	5.276	5.226	5.176	5.126	5.076	5.026
EXISTING GROUND LEVEL (m)	7.695	7.210	7.219	7.020	6.792	7.117	6.671	6.951	6.816	7.120	7.353	7.253	7.138
CHAINAGE (m)	2400.00	2425.00	2450.00	2475.00	2500.00	2525.00	2550.00	2575.00	2600.00	2625.00	2650.00	2675.00	2700.00
SIZE AND TYPE OF PIPE	250mm DIA. MS PIPE												



LONGITUDINAL PROFILE

CLIENT :

LEMBAGA AIR PERAK
 JALAN BASCO KEPAYANG 3
 BASCO AVENUE @ KEPAYANG,
 31400 IPOH
 PERAK DARUL RIDZUAN
 TEL : 605 255 1155
 FAX : 605 255 6397

CLIENT'S STAMP & SIGNATURE

CONSULTANT:

HLA ASSOCIATES SDN. BHD.
 (Company No. 275594-H)
 NO. B3 JALAN WANGSA DELIMA 5,
 PUSAT BANDAR WANGSA MAJU
 53300 KUALA LUMPUR
 TEL : 603 4142 2525
 TEL : 603 4149 2269
 EMAIL : hla@hla-group.com

PROJECT TITLE :
**PROJEK PEMBINAAN LOJI RAWATAN
 AIR KG. GAJAH (PACKAGE PLANT),
 DAERAH PERAK TENGAH, PERAK
 DARUL RIDZUAN**

APPROVED BY AUTHORITY/UTILITY/SERVICE PROVIDER

CONSULTANTS CHOP & SIGNATURE

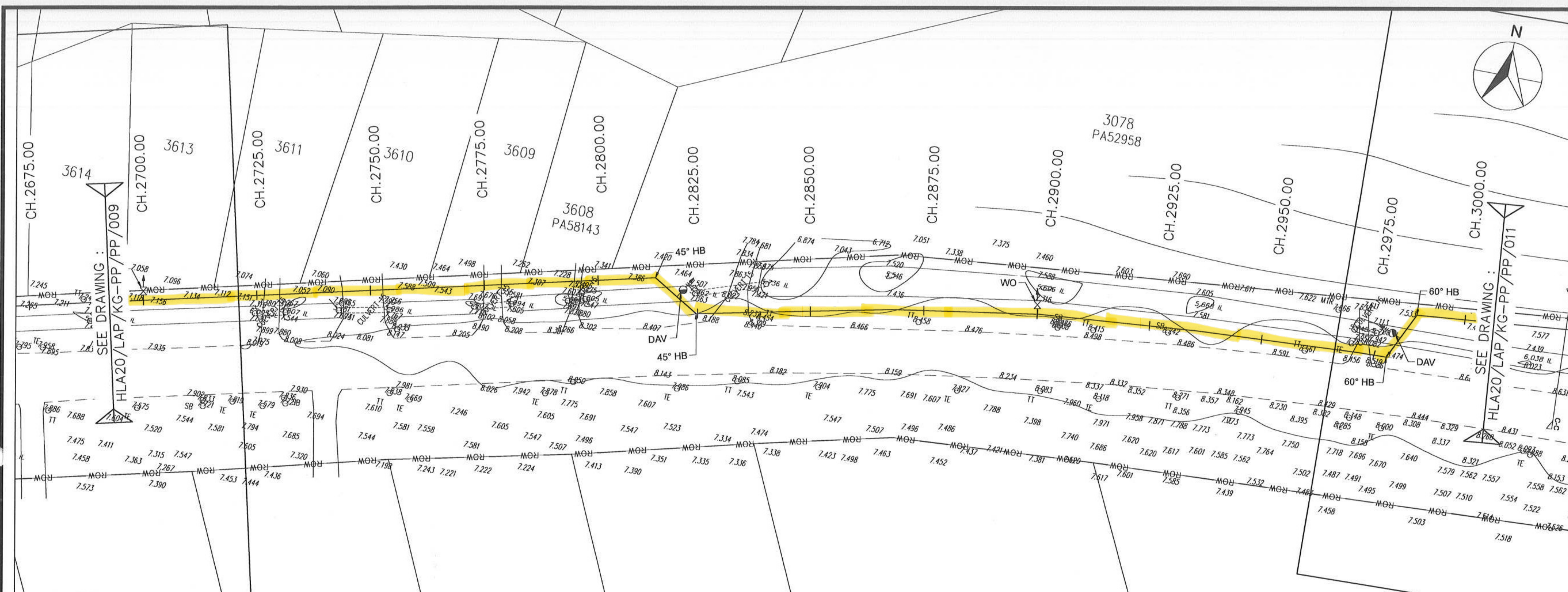
REVISION	DESCRIPTION	DATE

CONTRACT TITLE :

DRAWING TITLE :
**250mm DIA. TREATED
 WATER PIPELINE**
**PLAN AND LONGITUDINAL PROFILE
 CH. 2400.00 - CH. 2700.00**

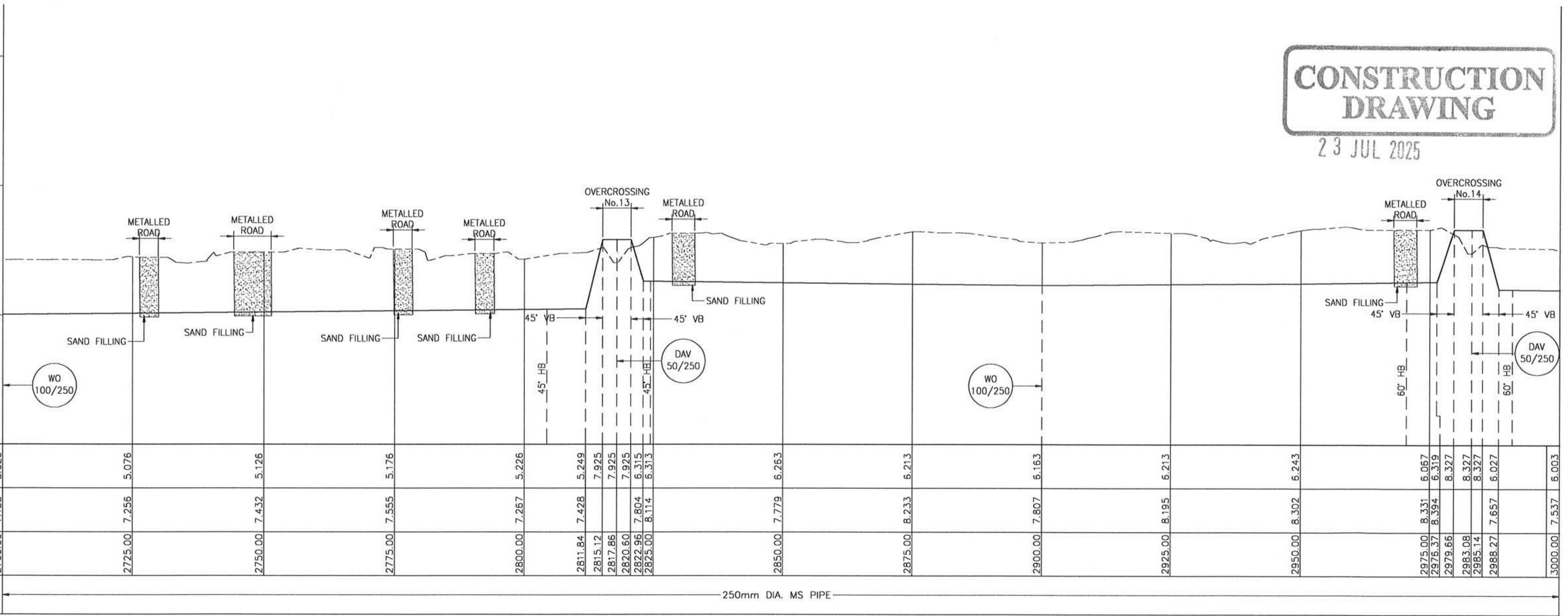
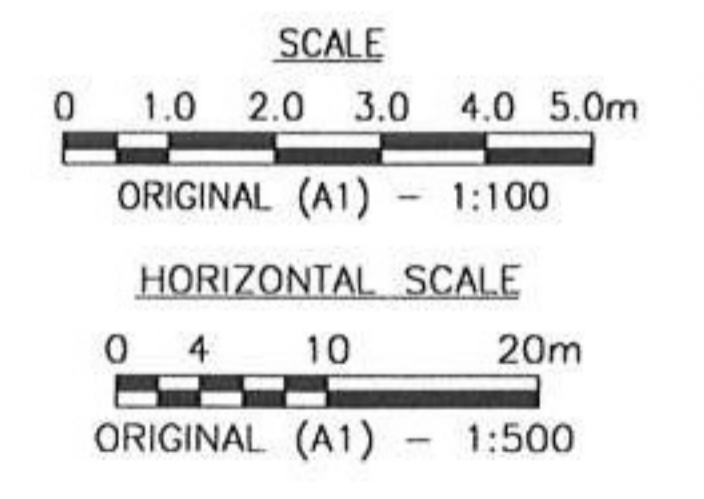
DATE : JULY 2025	SCALE : AS SHOWN
DRAWN : FMH/AFJ	CHECKED : MSN
DESIGNED : DAZ	APPROVED : Ir. LSG

DRAWING NUMBER : LAP/KG-PP/HLA9528/C/PP/009
 REVISION : **CO**



PLAN
SCALE 1:500

- NOTES :
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LONGITUDINAL PROFILE

CLIENT :

LEMBAGA AIR PERAK
JALAN BASCO KEPAYANG 3
BASCO AVENUE @ KEPAYANG,
31400 IPOH
PERAK DARUL RIDZUAN
TEL : 605 255 1155
FAX : 605 255 6397

CLIENT'S STAMP & SIGNATURE

CONSULTANT:

HLA ASSOCIATES SDN. BHD.
(Company No. 27594-H)
NO. 83 JALAN WANGSA DELIMA 5,
PUSAT BANDAR WANGSA MAJU
53300 KUALA LUMPUR
TEL : 603 4142 2525
FAX : 603 4149 2269
EMAIL : hla@hla-group.com

PROJECT TITLE :

PROJEK PEMBINAAN LOJI RAWATAN
AIR KG. GAJAH (PACKAGE PLANT),
DAERAH PERAK TENGAH, PERAK
DARUL RIDZUAN

APPROVED BY AUTHORITY/UTILITY/SERVICE PROVIDER

CONSULTANTS CHOP & SIGNATURE

**CONSTRUCTION
DRAWING**
23 JUL 2025

REVISION	DESCRIPTION	DATE

CONTRACT TITLE :

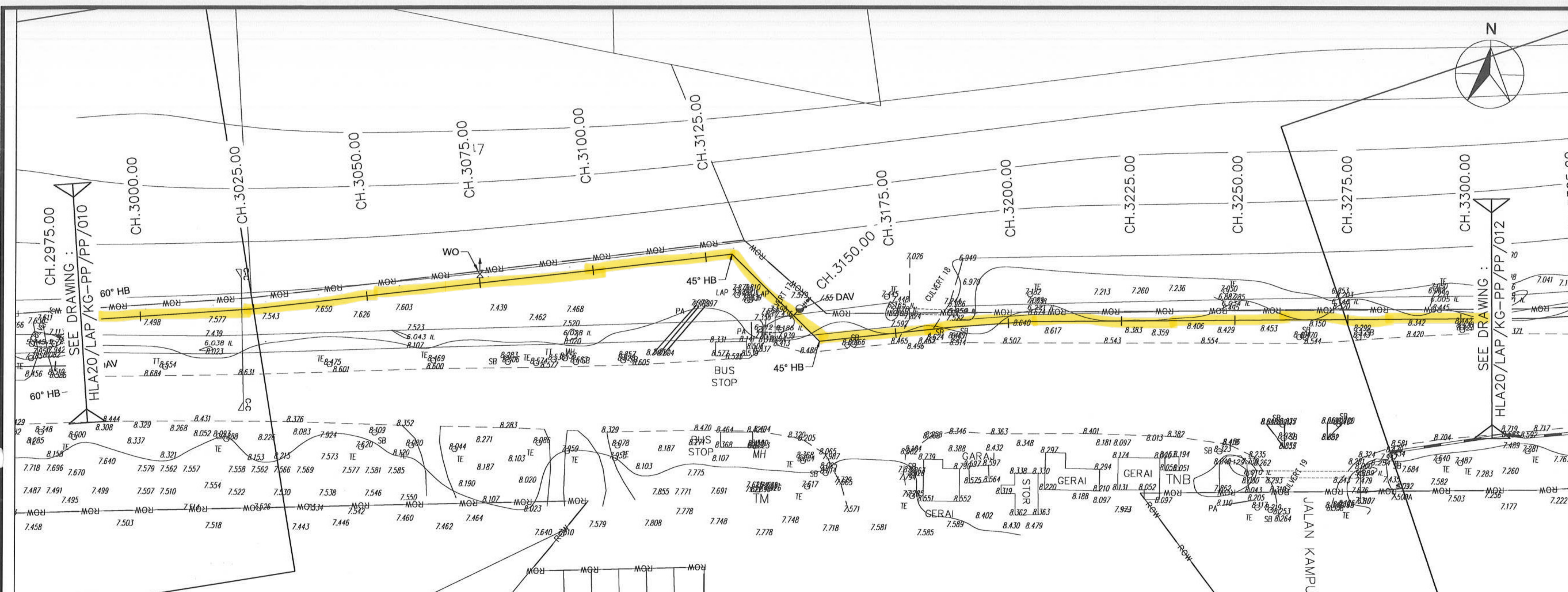
DRAWING TITLE :

**250mm DIA. TREATED
WATER PIPELINE**
PLAN AND LONGITUDINAL PROFILE
CH. 2700.00 - CH. 3000.00

DATE : JULY 2025	SCALE : AS SHOWN
DRAWN : FMH/AFJ	CHECKED : MSN
DESIGNED : DAZ	APPROVED : Ir. LSG

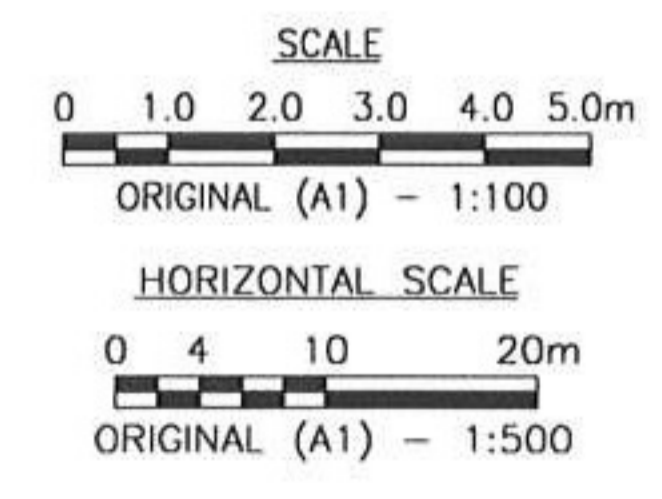
DRAWING NUMBER : LAP/KG-PP/HLA9528/C/PP/010

REVISION : C0



PLAN
SCALE 1:500

- NOTES :
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DATUM = 0.00m

PIPE INVERT LEVEL (m)	6.003	5.953	5.903	5.842	5.892	5.942	5.978	6.014	6.064	6.114	6.164
EXISTING GROUND LEVEL (m)	7.537	7.549	7.749	7.498	7.725	7.938	7.704	8.020	8.306	8.471	8.219
CHAINAGE (m)	3000.00	3025.00	3050.00	3075.00	3100.00	3125.00	3142.98	3150.00	3175.00	3200.00	3225.00
SIZE AND TYPE OF PIPE	← 250mm DIA. MS PIPE →										

LONGITUDINAL PROFILE

CONSTRUCTION DRAWING
23 JUL 2025

CLIENT :
LEMBAGA AIR PERAK
JALAN BASCO KEPAYANG 3
BASCO AVENUE @ KEPAYANG,
31400 IPFH
PERAK DARUL RIDZUAN
TEL : 605 255 1155
FAX : 605 255 6397

CLIENT'S STAMP & SIGNATURE

CONSULTANT:
HLA ASSOCIATES SDN. BHD.
(Company No. 275594-H)
NO. 83 JALAN WANGSA DELIMA 5,
PUSAT BANDAR WANGSA MAJU
53300 KUALA LUMPUR
TEL : 603 4142 2525
FAX : 603 4149 2269
EMAIL : hla@hla-group.com

PROJECT TITLE :
PROJEK PEMBINAAN LOJI RAWATAN AIR KG. GAJAH (PACKAGE PLANT), DAERAH PERAK TENGAH, PERAK DARUL RIDZUAN

APPROVED BY AUTHORITY/UTILITY/SERVICE PROVIDER

CONSULTANTS CHOP & SIGNATURE

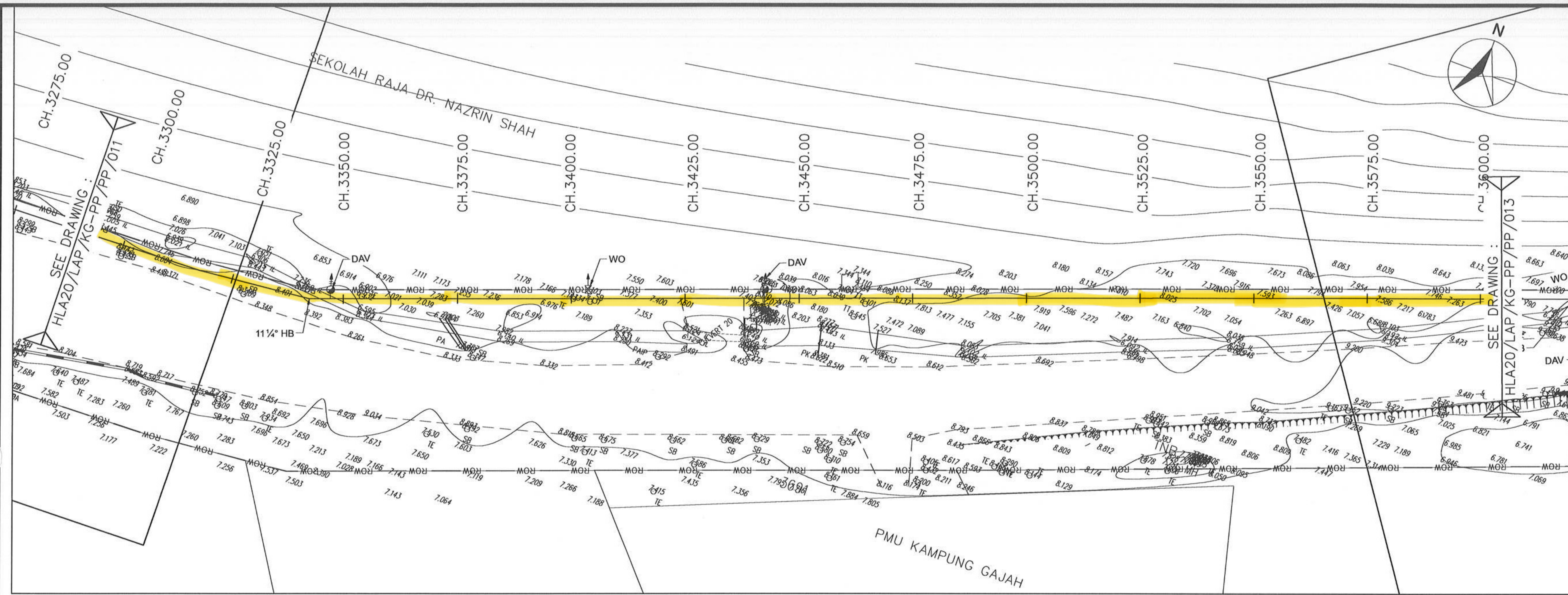
REVISION	DESCRIPTION	DATE

CONTRACT TITLE :

DRAWING TITLE :
250mm DIA. TREATED WATER PIPELINE
PLAN AND LONGITUDINAL PROFILE
CH. 3000.00 - CH. 3300.00

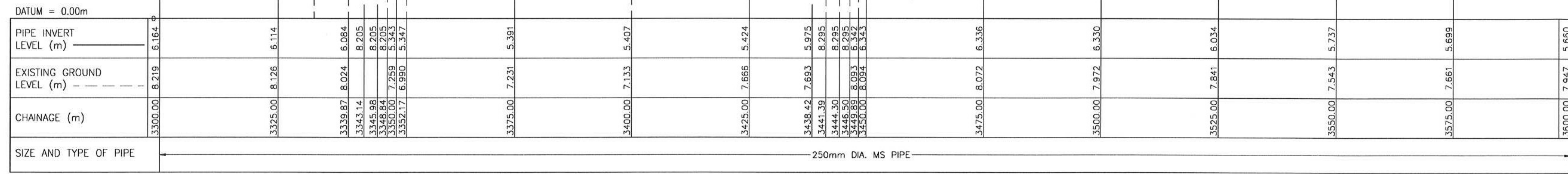
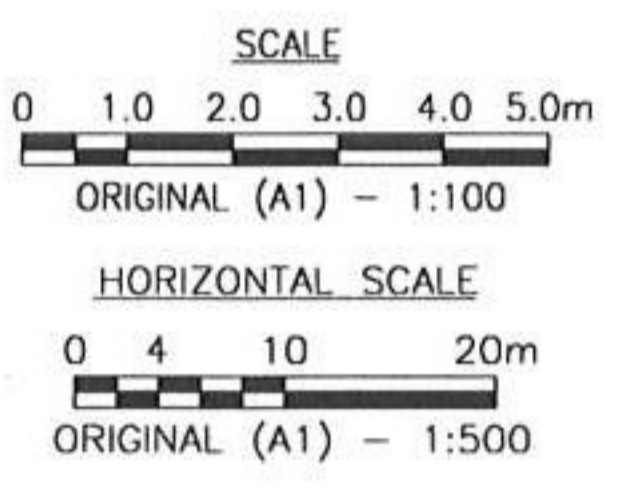
DATE : JULY 2025	SCALE : AS SHOWN
DRAWN : FWH/AFJ	CHECKED : MSN
DESIGNED : DAZ	APPROVED : Ir. LSG

DRAWING NUMBER : LAP/KG-PP/HLA9528/C/PP/011
REVISION : C0



PLAN
SCALE 1:500

- NOTES :
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 - THE COORDINATES OF TBM SHOWN ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CHECK AND VERIFY ITS ACCURACY.



LONGITUDINAL PROFILE

**CONSTRUCTION
DRAWING**
23 JUL 2025

CLIENT :
LEMBAGA AIR PERAK
JALAN BASCO KEPAYANG 3
31400 IPOH
PERAK DARUL RIDZUAN
TEL : 605 255 1155
FAX : 605 255 6397

CLIENT'S STAMP & SIGNATURE

CONSULTANT:
HLA ASSOCIATES SDN. BHD.
(Company No. 275594-H)
NO. 83 JALAN WANGSA DELIMA 5,
PUSAT BANDAR WANGSA MAJU
53300 KUALA LUMPUR
TEL : 603 4142 2525
FAX : 603 4149 2269
EMAIL : hla@hla-group.com

PROJECT TITLE :
**PROJEK PEMBINAAN LOJI RAWATAN
AIR KG. GAJAH (PACKAGE PLANT),
DAERAH PERAK TENGAH, PERAK
DARUL RIDZUAN**

APPROVED BY AUTHORITY/UTILITY/SERVICE PROVIDER

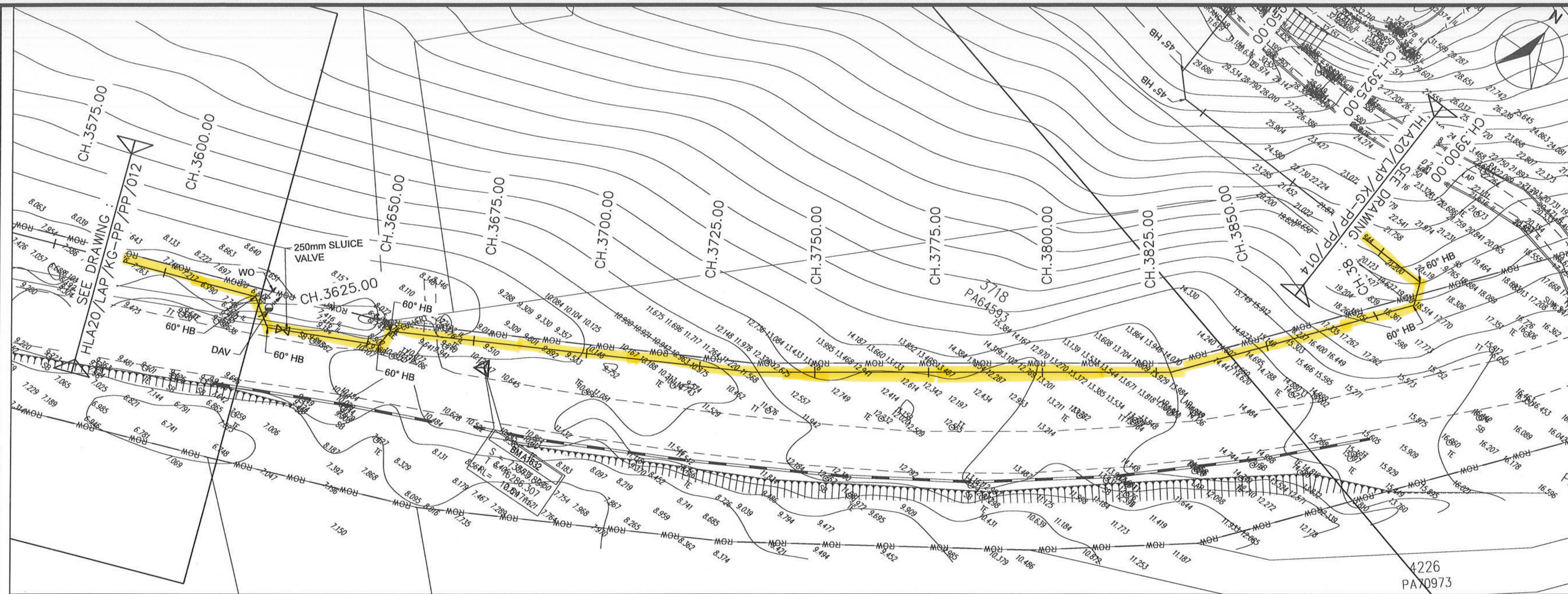
CONSULTANTS CHOP & SIGNATURE

REVISION	DESCRIPTION	DATE

CONTRACT TITLE :

DRAWING TITLE :
**250mm DIA. TREATED
WATER PIPELINE**
PLAN AND LONGITUDINAL PROFILE
CH. 3300.00 - CH. 3600.00

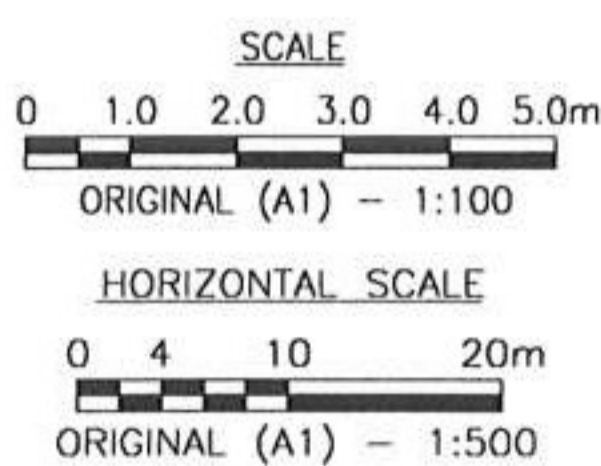
DATE : JULY 2025	SCALE : AS SHOWN
DRAWN : FMH/AFJ	CHECKED : MSN
DESIGNED : DAZ	APPROVED : Ir. LSG
DRAWING NUMBER : LAP/KG-PP/HLA9528/C/PP/012	REVISION C0



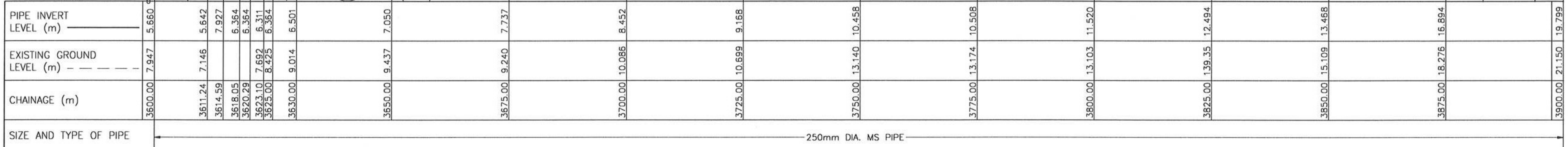
PLAN
SCALE 1:500

NOTES :

- UNLESS OTHERWISE STATED, ALL LEVELS ARE IN METRES AND DIMENSIONS ARE IN MILLIMETRE.
- UNLESS OTHERWISE STATED, PIPE SHALL BE LAID AT MINIMUM GRADIENT OF 1:500.
- ALL PIPES TRENCHES UNDER METALLED ROAD SHALL BE FILLED WITH SAND.
- DEPTH OF COVER FROM THE GROUND/ROAD TO THE CROWN OF THE PIPE SHALL BE MINIMUM 1.2m.
- DEPTH OF COVER FROM THE GROUND/ROAD TO THE CROWN OF JACKING SLEEVE SHALL BE MINIMUM 1.5m.
- ALIGNMENT AND INVERT LEVELS OF PIPELINE SUBJECT TO CHANGE AT SITE TO SUIT AUTHORITIES REQUIREMENT AND SITE CONDITION.
- THE COORDINATES OF TBM SHOWN ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CHECK AND VERIFY ITS ACCURACY.



DATUM = 0.00m



LONGITUDINAL PROFILE

CLIENT :

LEMBAGA AIR PERAK
 JALAN BASCO KEPAYANG 3
 BASCO AVENUE @ KEPAYANG,
 31400 IPOH
 PERAK DARUL RIDZUAN
 TEL : 605 255 1155
 FAX : 605 255 6397

CLIENT'S STAMP & SIGNATURE

CONSULTANT:

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PROJECT TITLE :
PROJEK PEMBINAAN LOJI RAWATAN AIR KG. GAJAH (PACKAGE PLANT), DAERAH PERAK TENGAH, PERAK DARUL RIDZUAN

APPROVED BY AUTHORITY/UTILITY/SERVICE PROVIDER

CONSULTANTS CHOP & SIGNATURE

REVISION	DESCRIPTION	DATE

CONTRACT TITLE :

DRAWING TITLE :
250mm DIA. TREATED WATER PIPELINE
PLAN AND LONGITUDINAL PROFILE
CH. 3600.00 - CH. 3900.00

DATE : JULY 2025	SCALE : AS SHOWN
DRAWN : FMH/AFJ	CHECKED : MSN
DESIGNED : DAZ	APPROVED : Ir. LSG

DRAWING NUMBER :
LAP/KG-PP/HLA9528/C/ PP/013
 REVISION : **C0**