

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwato

PPK PERENCANAAN
BP2W GORONTALO

WIRDA, H. ABAS, ST
NIP. 19790119 200802 2001

MENYETUJI

TIM TEKNIS

MARTEN Y. LELENGBOTO, ST, MT

JOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ERCHI CIVIL konsultan
Engineering consulting service
Jl. Sising 38B - Banteng - Banten 17413

DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

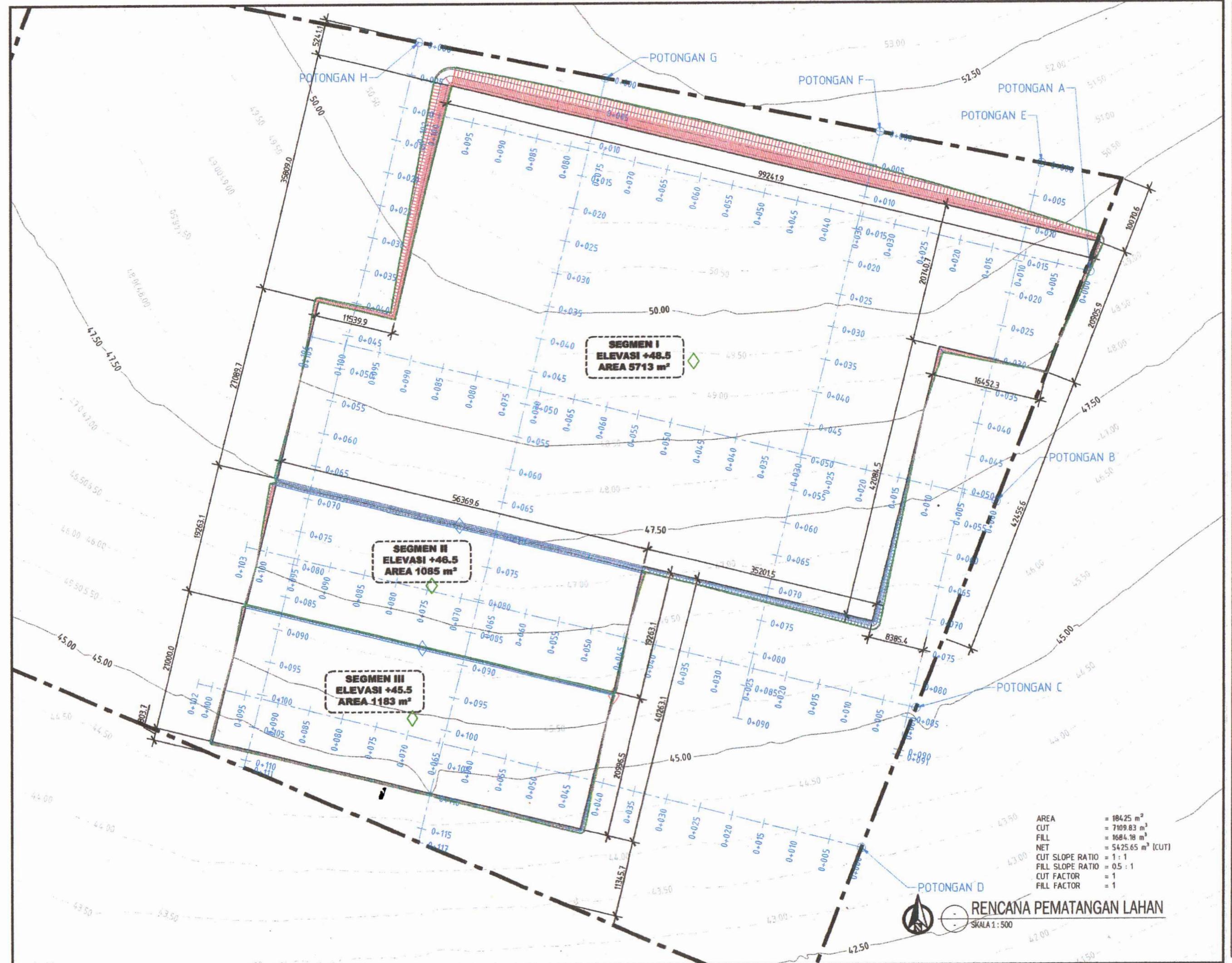
TEAM LEADER
ANDRI LESMANA, ST, MIL

JUDUL GAMBAR

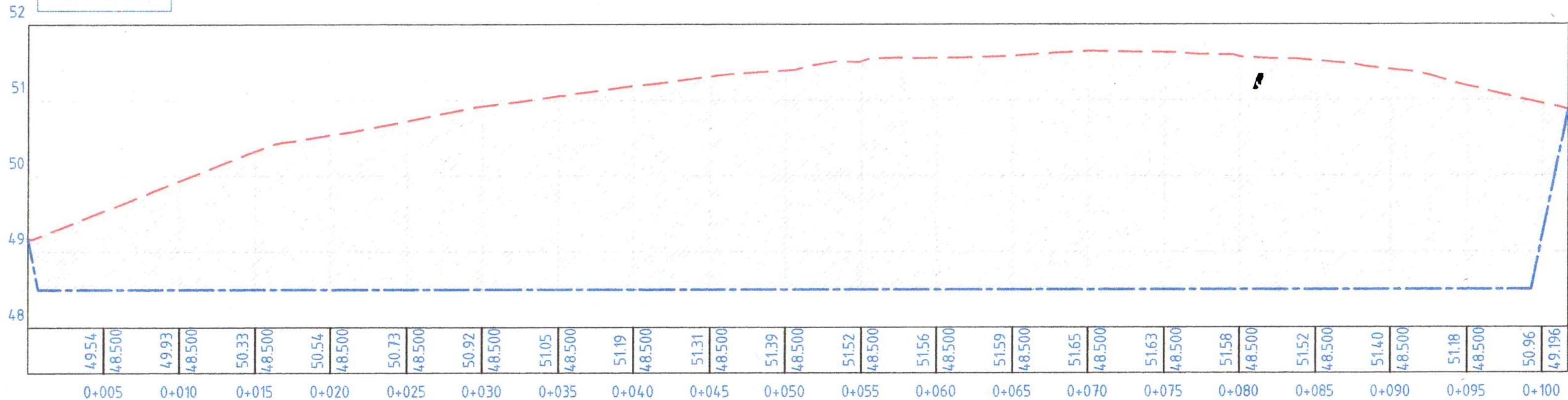
AREA = 18425 m²
CUT = 7109.83 m³
FILL = 1684.18 m³
NET = 5425.65 m³ (CUT)
CUT SLOPE RATIO = 1 : 1
FILL SLOPE RATIO = 0.5 : 1
CUT FACTOR = 1
FILL FACTOR = 1

RENCANA PEMATANGAN LAHAN
SKALA 1:500

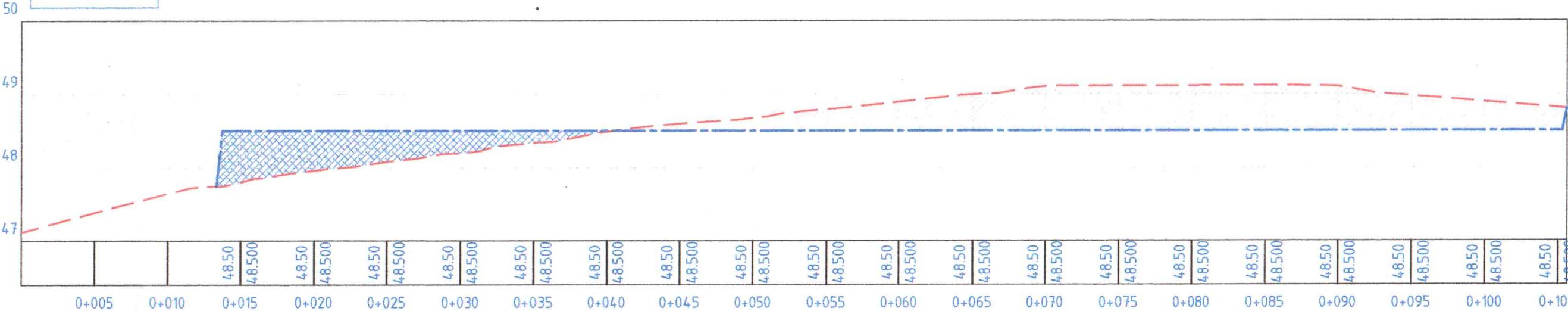
SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR



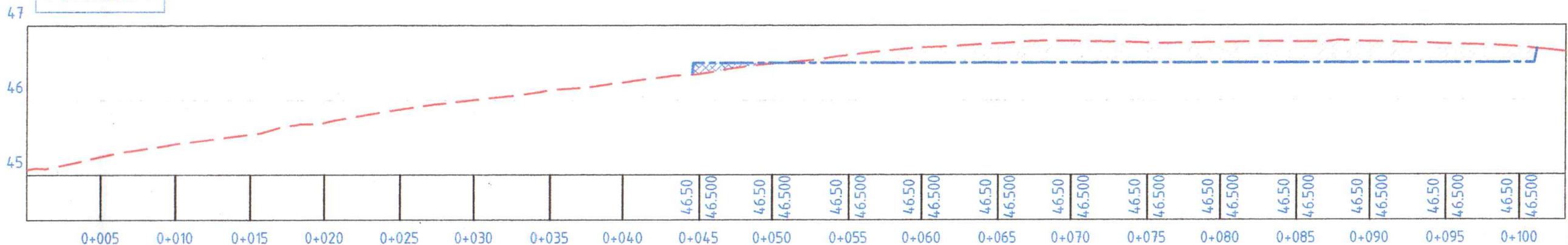
POTONGAN A



POTONGAN B



POTONGAN C



KEMENTERIAN PERKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRASARANA PEMERINTAH WILAYAH GORONTALO
Jl. Prof. Dr. Abdurrahman No. 15 Gorontalo Telp. (045) 23230

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHONOTO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP. 19790119 200802 2 001

MENYETUUI

TIM TEKNIS TTD
MARTEN Y. LELENGBOTO, ST, MT

YOSEPH SETRIAWAN, ST

MUZIZMAN HAMZAH, ST

MOHAMMAD ARDIYIA RAMADHAN, ST

MONIKA STEV CAROLIN, ST

KONSULTAN

PT. ARCHI CIVIL Konsultan
Engineering Consulting Services
Gedung JSM+MPC, Jl. Braga 10
Bandung 40132

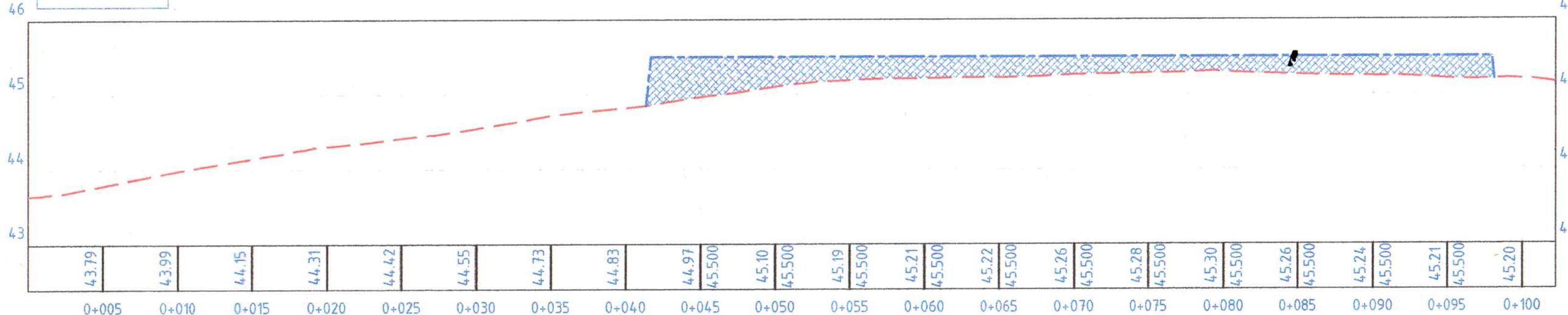
DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA ST,MIL

JUDUL GAMBAR

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR

POTONGAN D



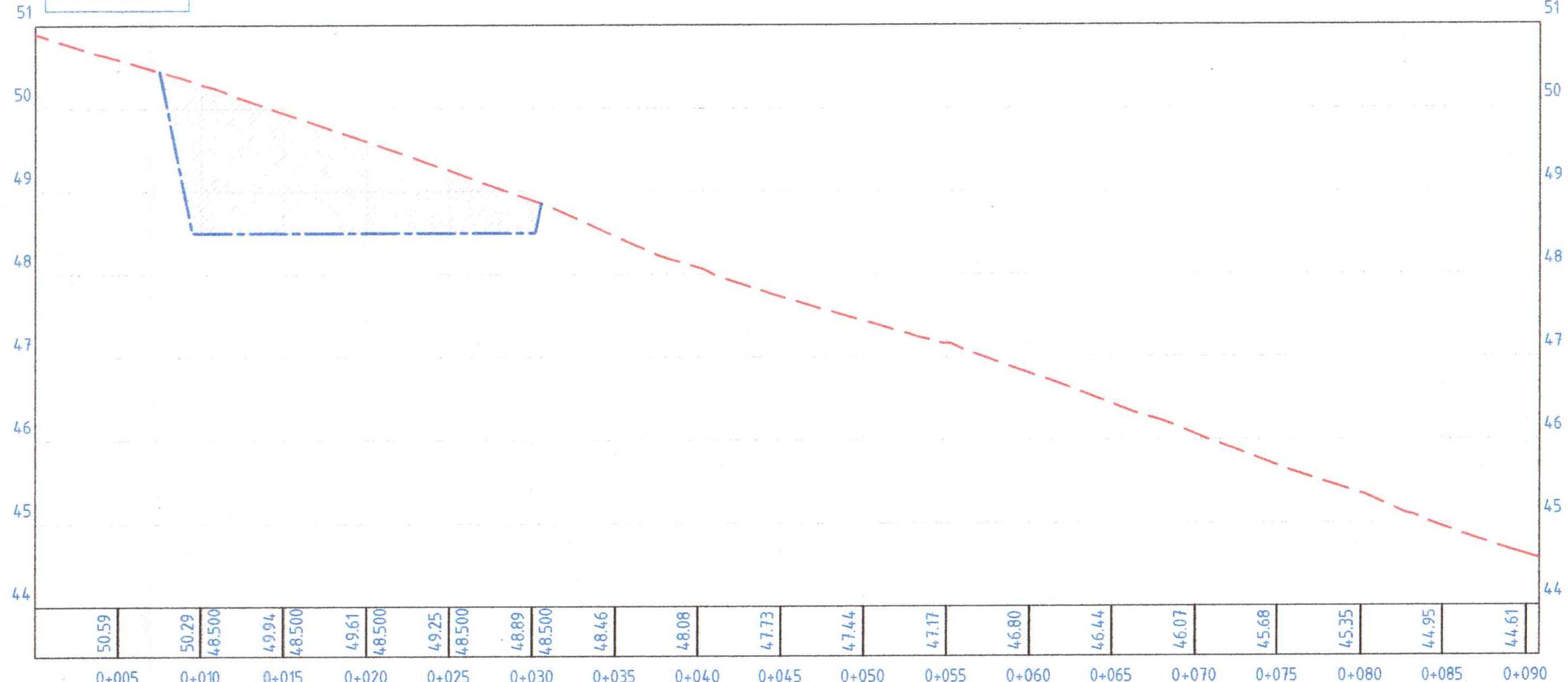
46

45

44

43

POTONGAN E



51

50

49

48

47

46

45

44

KEMENTERIAN PUPR
DIREKTORAT JENDERAL CPTK
BALAI PENGEMBANG PEMERINTAHAN WILAYAH GORONTALO
Jl. Prof. Dr. Soekarno No. 100, 96111 Gorontalo

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHONUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA, H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUUI

TIM TEKNIS TTD

MARTEN Y. LELENGBOTO, ST (Signature)

YOSEPH SETRIAWAN, ST (Signature)

MUAZZIN HAMZAH, ST (Signature)

MOHAMMAD ARDIYA RAMADHAN, ST (Signature)

MONIKA STEVI CAROLIN, ST (Signature)

KONSULTAN

PT. ORCHI CIVIL Konsultan
For engineering consulting solution
JL. SEDA-JAHA-BUNG-KARUYEN LUBUK

DIREKTUR UTAMA (Signature)
Ir. SYAMSUDIN ABDULAH

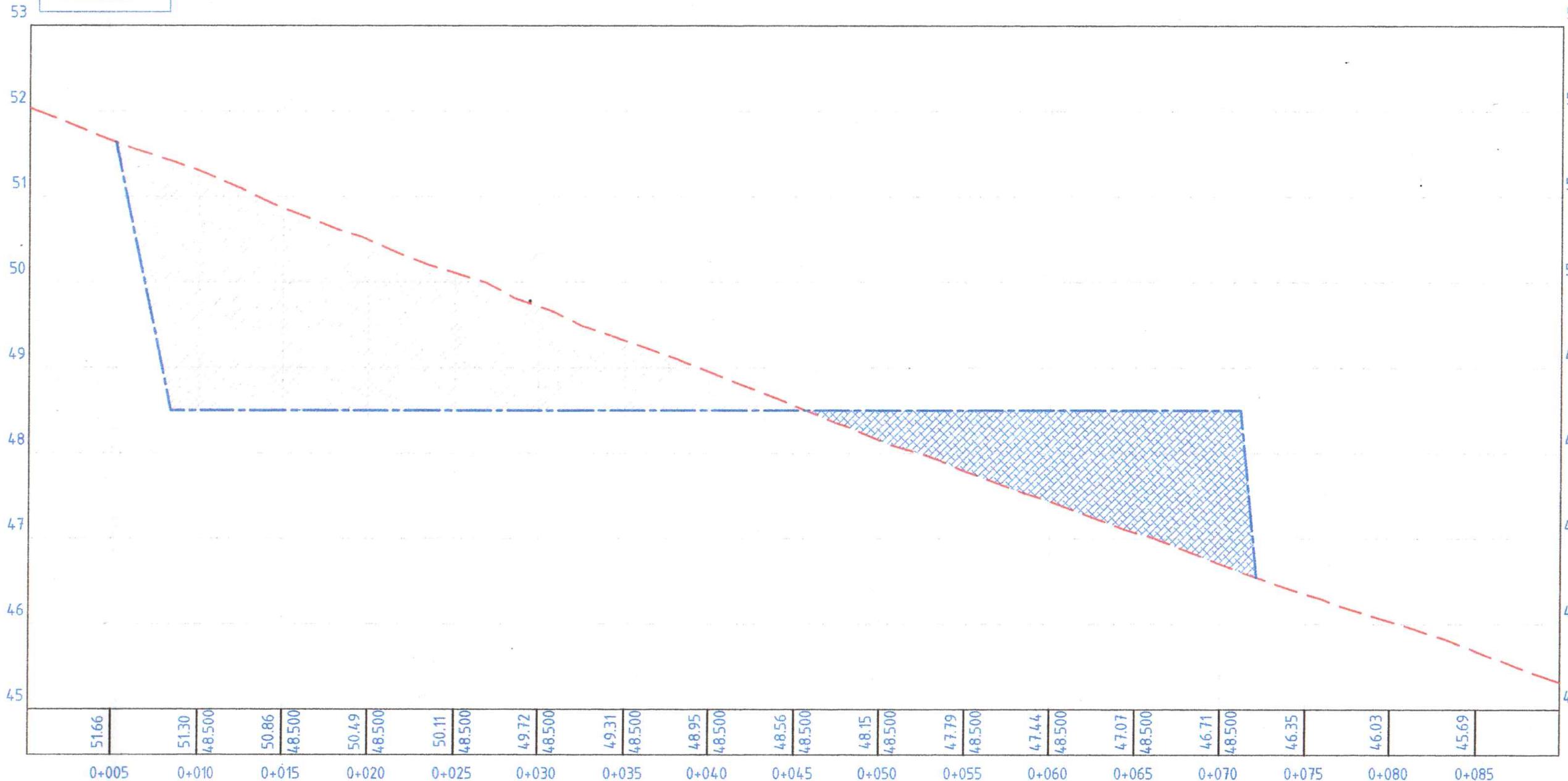
TEAM LEADER (Signature)
ANDRI LESMANA ST.MIL

JUDUL GAMBAR

SKALA GAMBAR RIDA GAMBAR
NOMOR GAMBAR JUMLAH GAMBAR

1

POTONGAN F



KEMENTERIAN PERKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL Cipta Karya
BALAI PRASARANA PEMERINTAHAN WILAYAH GORONTALO
Jl. Prof Dr. Abdi Sabur No. 102, Telp. (031) 415-8222

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwato

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD

MARTEN Y. LELENGBOTO, ST, MT

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDITYA RAMADHAN, ST

MONIKA STEV CAROLIN, ST

KONSULTAN

PT. GRENI CIVIL Konsultan
For Engineering Consulting Services
Gg. Gedung Jaya - Banteng - Banteng - Banyuwangi

DIREKTUR UTAMA

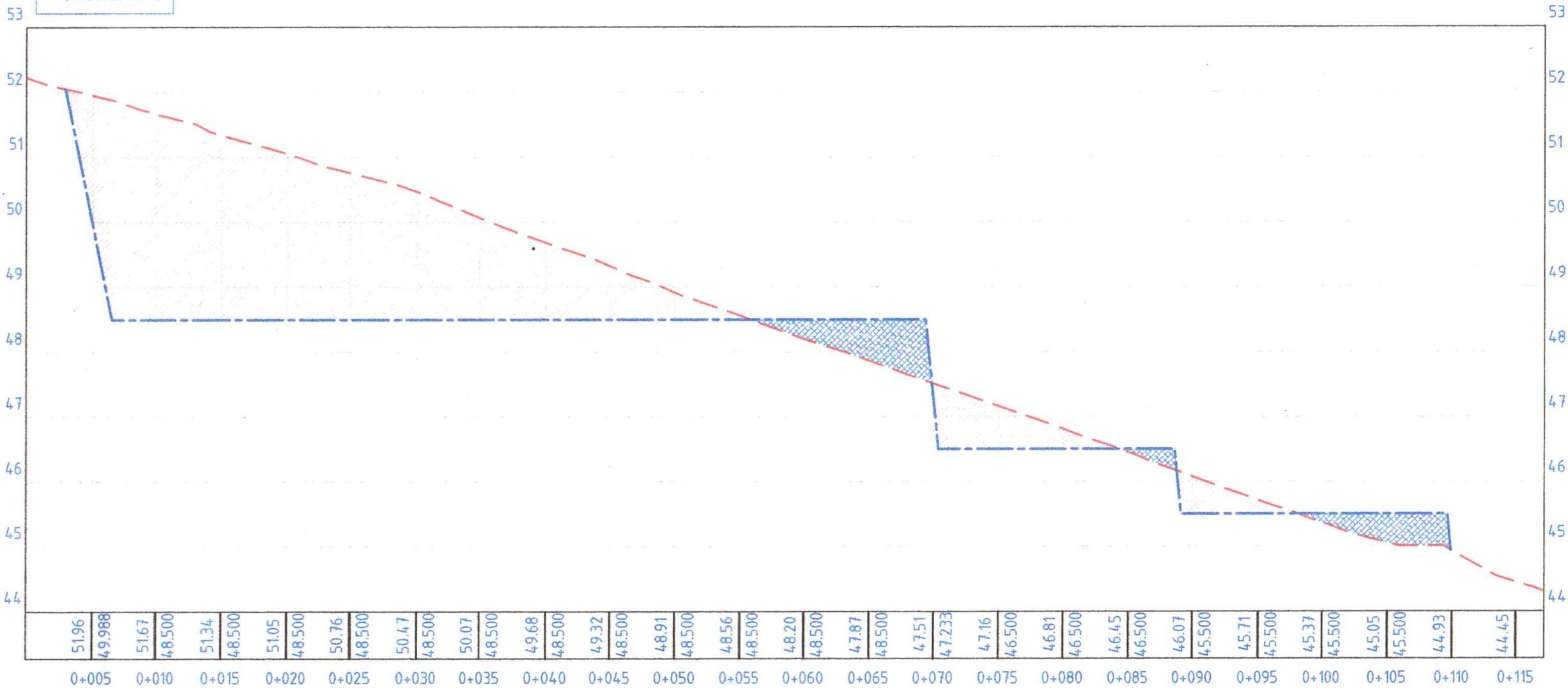
Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA ST.MIL

JUDUL GAMBAR

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR

POTONGAN G



KEMENTERIAN PUPERIUM LIMBAM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CIPTA KARNA
BALAI PRASIRAMA PEMERINTAH WILAYAH GORONTALO
Dr. Prof Dr. Hadi Sitorus, MM BUPATI WILAYAH PEMERINTAH GORONTALO

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHONTO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NP: 19790119 200802 2 001

MENYETUWI

TIM TEKNIS

MARTEN Y. LELENGBOTO, ST, MT

JOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYIA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. CIREHI CIVIL konsultan
Perfor engineering consulting solution
Telp. 0361-268-8199-2199

DIREKTUR UTAMA

Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA ST, MIL

JUDUL GAMBAR

SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP. 19790119 200802 2 001

MENYETUUI

TIM TEKNIS

MARTEN Y. LELENGBOTO, ST, MT

JOSEPH SETRIAWAN, ST

MUAZHAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ARCHI CIVIL konsultan

Architect engineering consulting services

06-2008-204-BAPC-JURAHEN 2020

DIREKTUR UTAMA

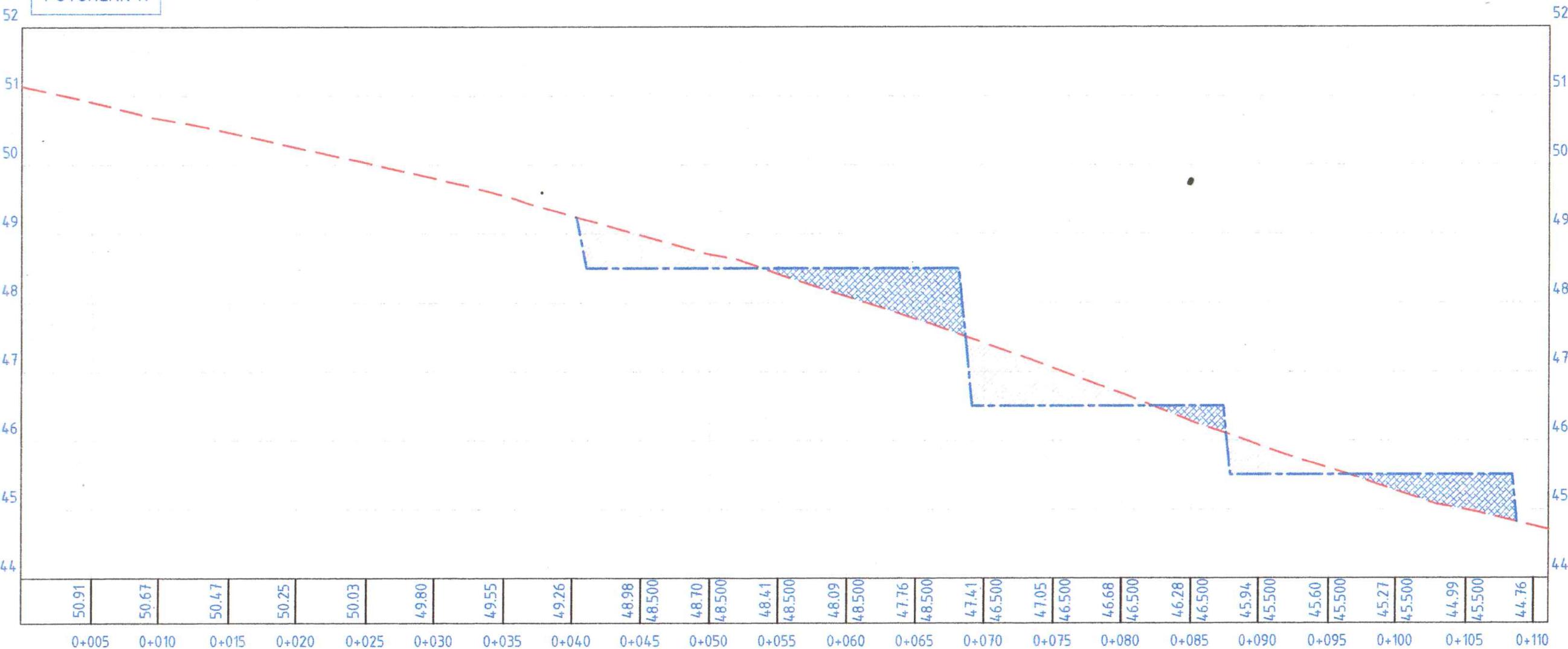
Ir. SYAMSUDIN ABDULAH

TEAM LEADER

ANDRI LESMANA ST.MIL

JUDUL GAMBAR

POTONGAN H



REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 2 001

MENYETUJI

TIM TEKNIS	TID
MARTEN Y. LEIENGBOTO, ST, MT	

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL Konsultan
Place for engineering consulting solution
GUL-SUSAJU-JEPAWANG-TAMBON-SUPPIN

DIREKTUR UTAMA	TID
Ir. SYAMSUDIN ABDULAH	

TEAM LEADER	TID
ANDRI LESMANA ST.MIL	

JUDUL GAMBAR

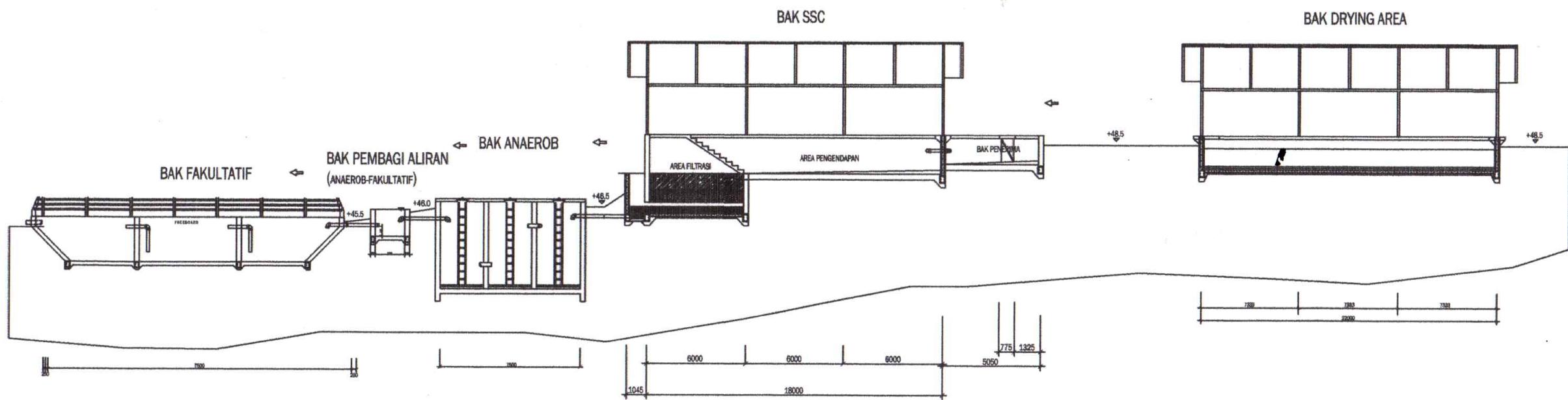
SITE PLAN

SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR

A. BANGUNAN UTAMA	B. BANGUNAN PENUNJANG
10. SOLID SEPARATION CHAMBER (SSC)	01. GERBANG KAWASAN DAN POS JAGA
11. DRYING AREA	02. PARKIR RODA EMPAT
12. BAK ANAEROBIK	03. PARKIR RODA DUA
13. BAK FAKULTATIF	04. PARKIR
14. BAK MATERASI	05. GEDUNG KANTOR PENGELOLA & GEDUNG LABORATORIUM & WORSHOP
15. WETLAND DAN BAK KONTROL	06. AREA LOADING TRUCK TINJA
16. BAK DISENFETKAN	07. TEMPAT CUCI TRUCK
17. BAK PEMBAGI ALIRAN (MATERASH-WETLAND)	08. HANGGAR TRUCK TINJA & BENDEL
18. BAK PEMBAGI ALIRAN (ANAEROB-FAKULTATIF)	09. AREA UTILITAS BANGUNAN
19. AREA PENGEMBANGAN	- TORENT AIR (1) - RESERVOIR (2) - RUMAH GENSET (3)
- LUAS LAHAN	
- LUAS LAHAN TERBANGUN	
PEKERJAAN RIGID BETON K-300	
PEKERJAAN PAVING BLOK K-250	



SITE PLAN
SKALA 1: 800



KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAYA
DIREKTORAT JENDERAL CIPRA KARYA
BALAI PRASARANA PERMUKIMAN WILAYAH GORONTALO
Jl. Prof Dr. Noer Salim No 62A, Menggala Kec. Gondol Tel. Per. (043-62238)

REVIEWDED
INSTALASI PENGOLAHAN LUMPU TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA, H. ABAS, ST
NIP. 19790119 200802 2 001

MENTYUJUI

TIM TEKNIS TTD

MARTEN Y. LELENGBOTO, ST, MT

JOSEPH SETRIAWAN, ST

MUAZZMAN HAMZAH, ST

MOHAMMAD ARDITYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTANT

PT. CRCHI CIVIL konsultan
Engineering consulting service

DIREKTUR UTAMA

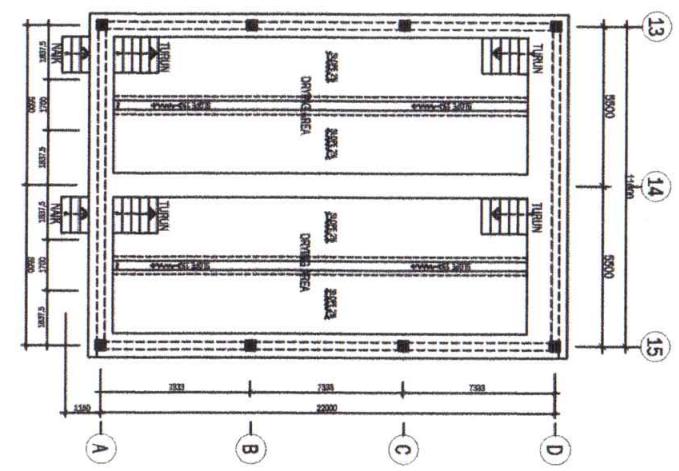
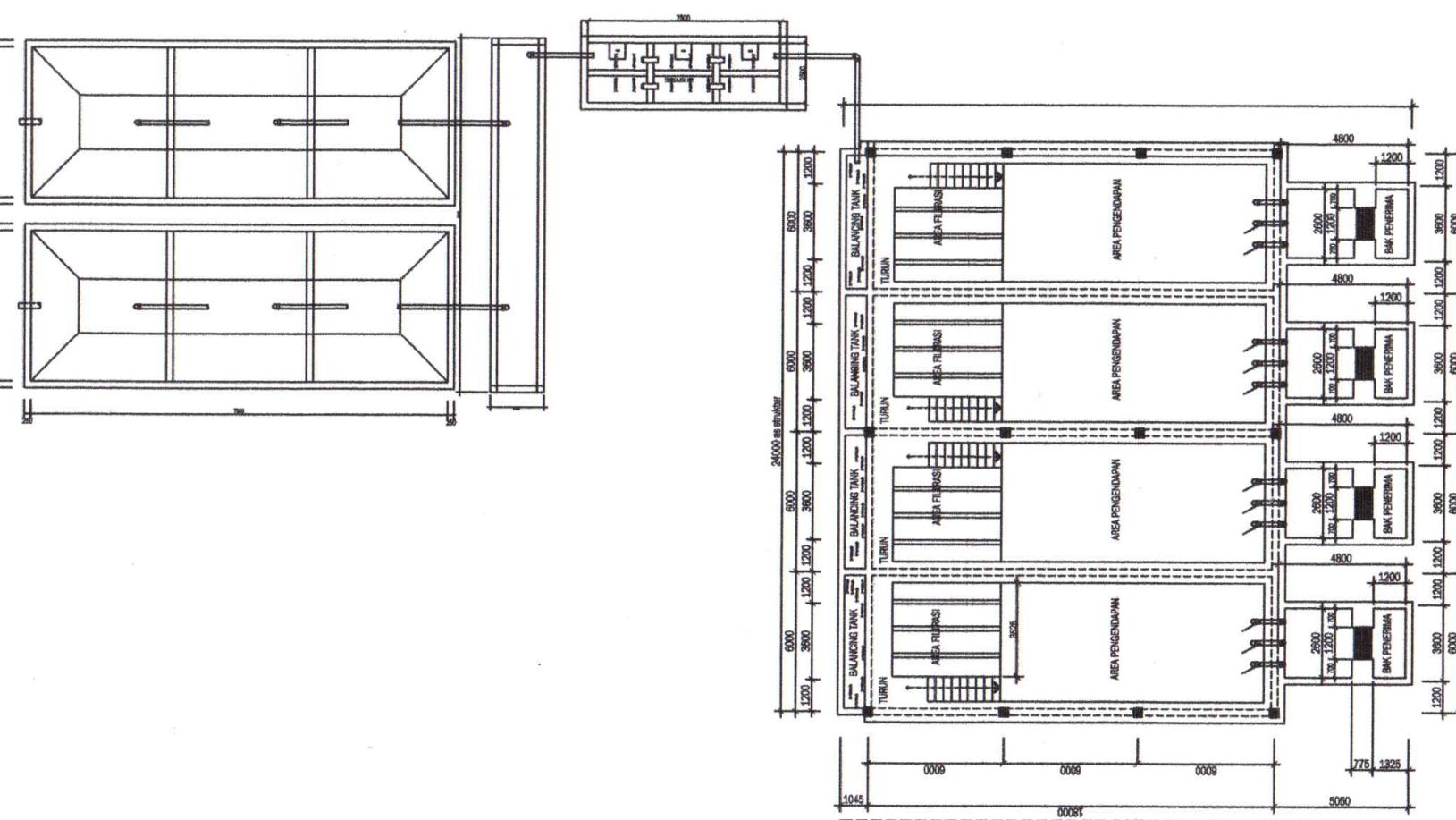
Ir. SYAMSUDIN ABDULAH

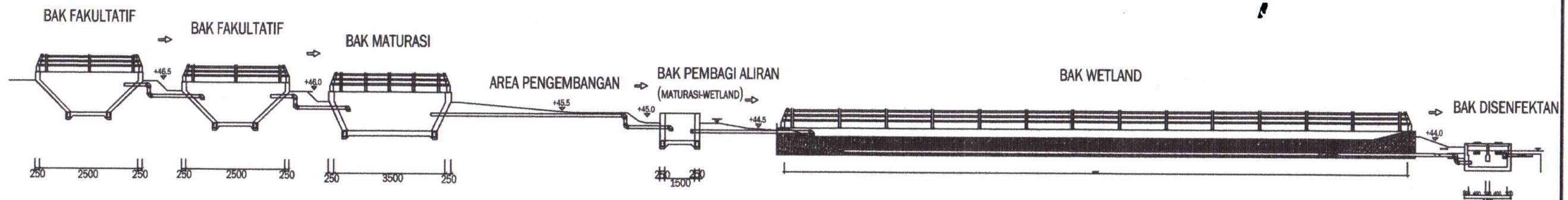
TEAM LEADER

ANDRI LESMANA ST.MIL

JUDUL GAMBAR

SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR

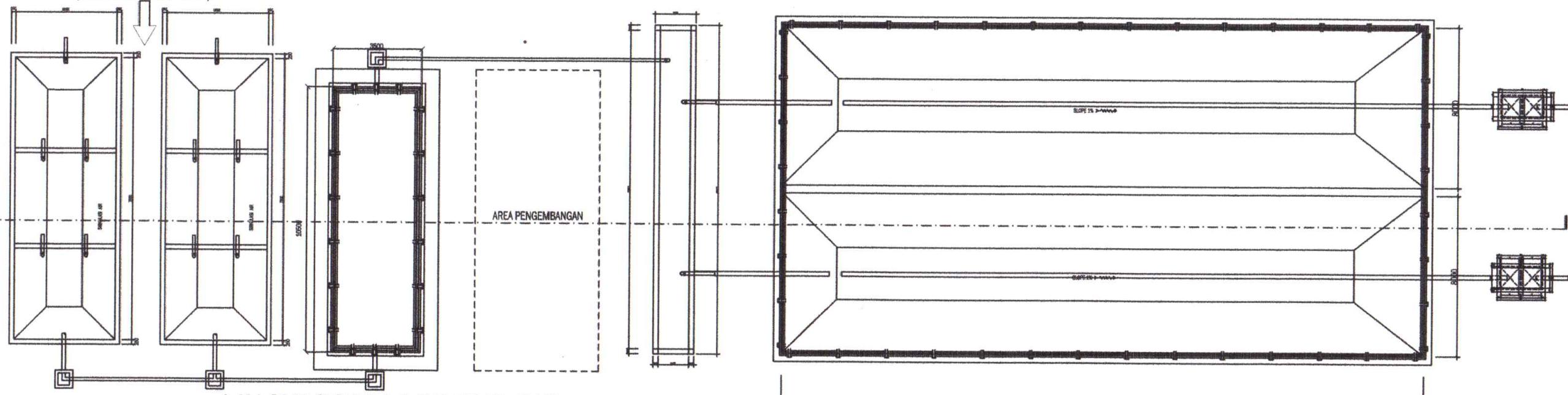




POTONGAN MEMANJANG SISTEM & DIMENSI IPLT

SKALA 1:600

DARI BAK PEMBAGI ALIRAN
(ANAEROB-FAKULTATIF)



LAY OUT SISTEM & DIMENSI IPLT

SKALA 1:600

KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL Cipta Karya
BALAI PRASARANA PEMUKIMAN WILAYAH GORONTALO
Dr. Prof Dr. Abd Sabur, M.Si. Selaku Wakil Kepala BP2W Gorontalo (0435-62036)

REVIEW DEB
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwato

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD

MARTEN Y. LELENGBOTO, ST, MT

JOSEPH SETRIAWAN, ST

MUAZZAM HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

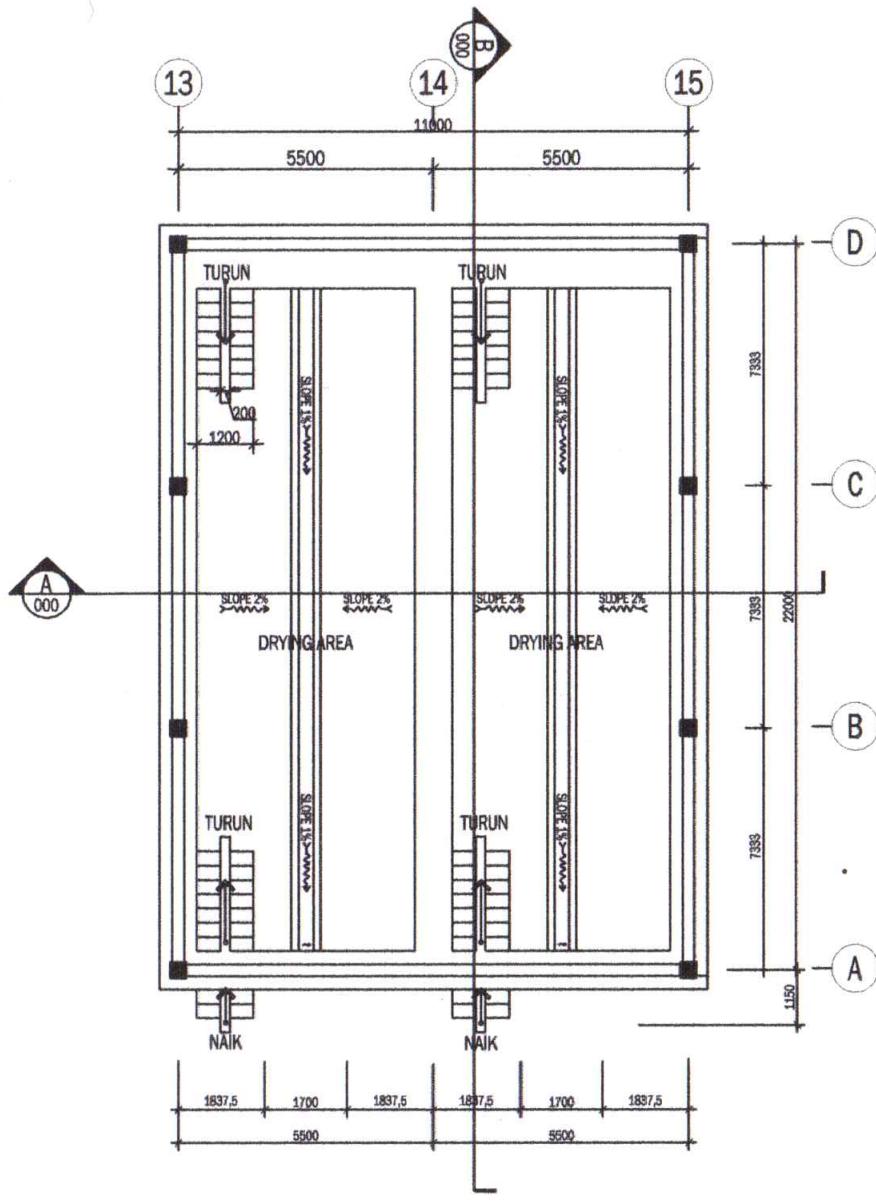
PT. ORCHI CIVIL konsultan
Your engineering consulting solution
Telp. 0362 3300-0000 - 0852-5120-8200

DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

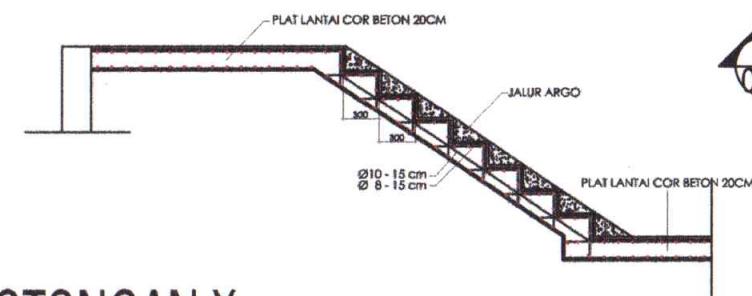
TEAM LEADER
ANDRI LESMANA ST.MIL

JUDUL GAMBAR

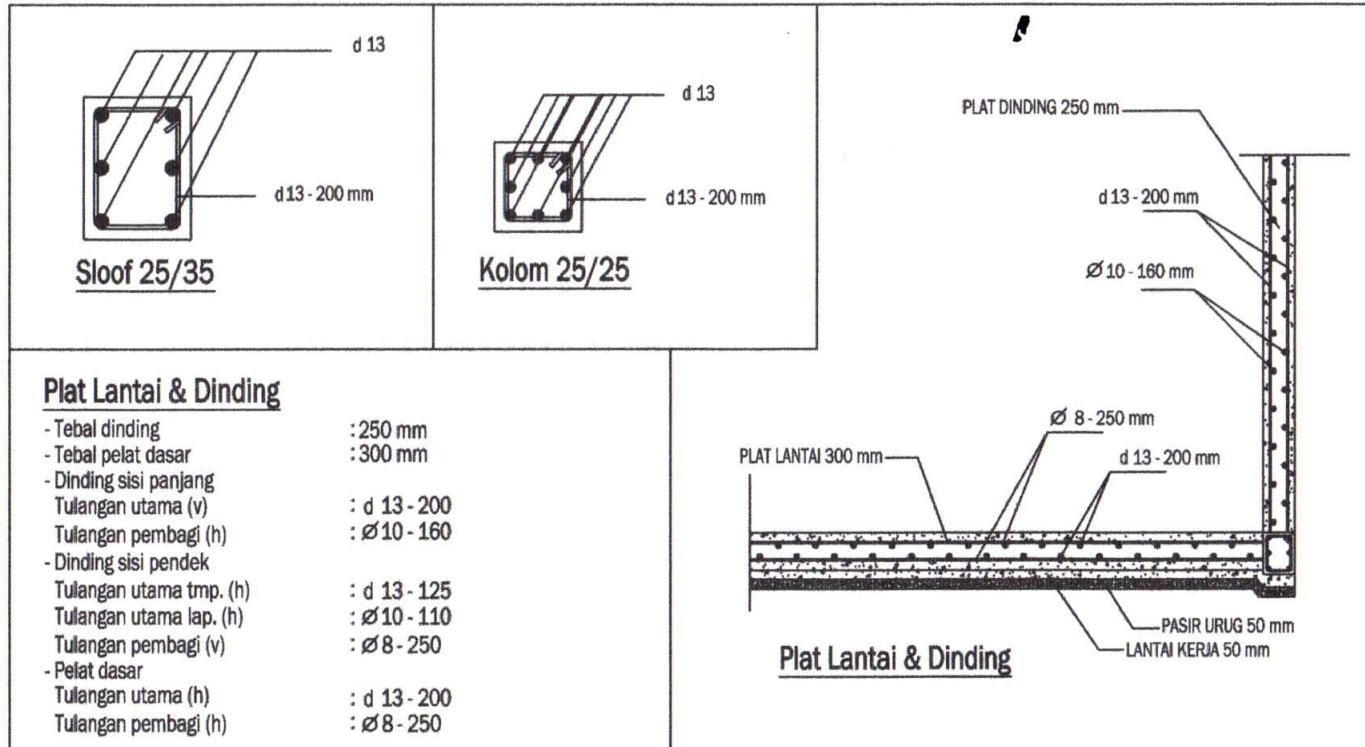
SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR



DENAH
SKALA 1:150

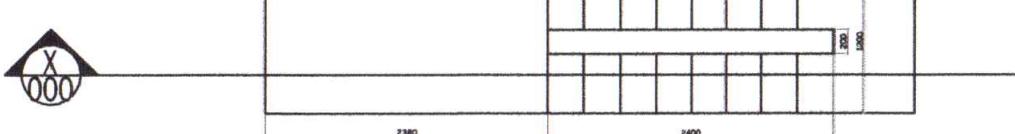


POTONGAN X
SKALA 1:50



DETAIL PEMBESIAN

SKALA 1:20



DENAH TANGGA
SKALA 1:50

BAK DRYING AREA

PANJANG	22,00
LEBAR	5,50
TINGGI BASAH	0,9
TINGGI FREE BOARD	0,5

KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRASARANA PERMUKIMAN WILAYAH GORONTALO
Jl. Prof Dr. ABD. SIAW No.10, Kec. Wunggu, Kec. Gorontalo 76111 NIP. 643-025

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD

MARTEN Y. LELENGBOTO, ST, MIT

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
Engineering consulting solution
D1 - 3308 Jl. Raya - INDONESIA SURABAYA

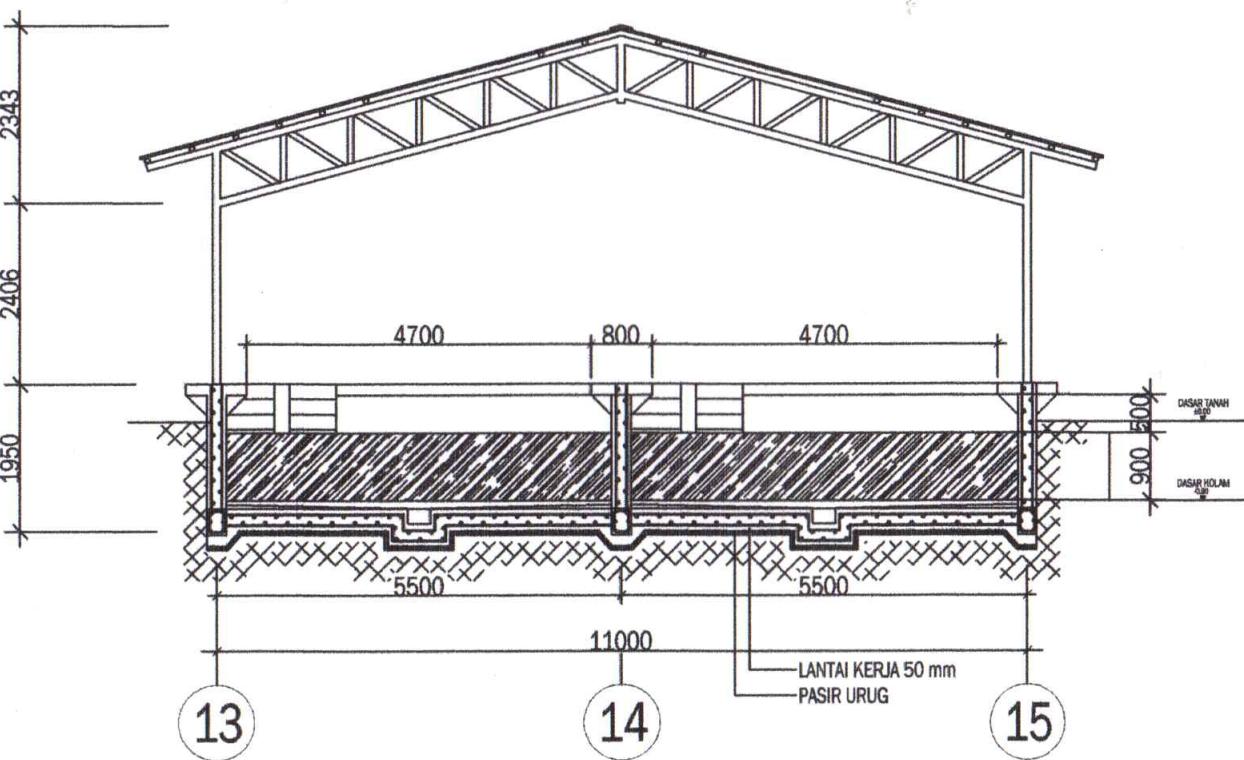
DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA ST.MIL

JUDUL GAMBAR

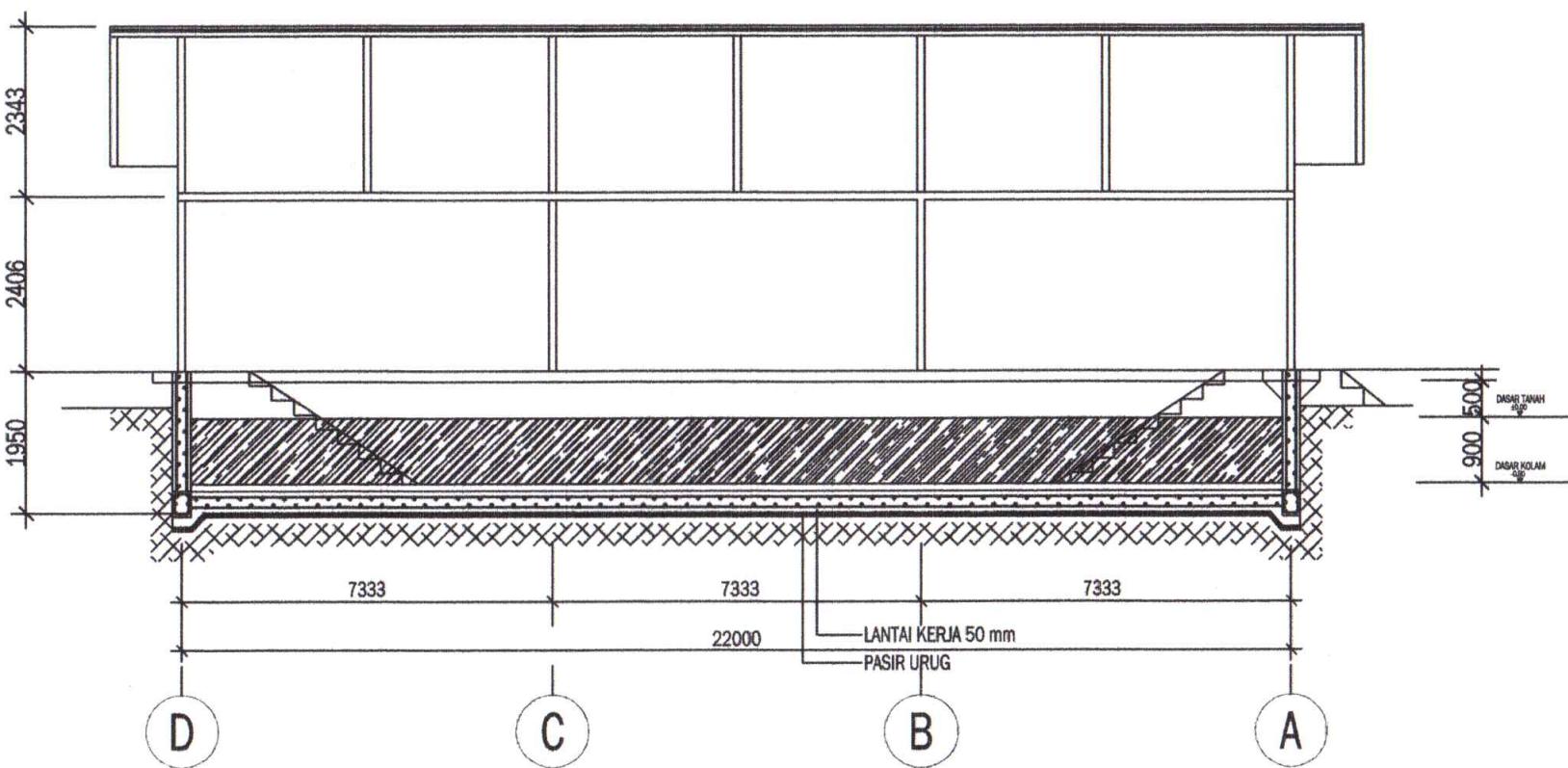
BAK DRYING AREA

SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR



POTONGAN - A

SKALA 1:100



POTONGAN - B

SKALA 1:100

KEMENTERIAN PUPR
DIREKTORAT JENDERAL CPT KARYA
BALAI PRASARANA PERMUKIMAN WILAYAH GORONTALO
X. Prof Dr. Andi Asri B.Si,M.T. MEnggKt Kons. Geoteknik Telp/Fax:0435-423261

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS	TTD
MARTEN Y. LELENGBOTO, ST, MT	

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORECHI CIVIL konsultan
For engineering consulting solution
GJL - 2008 JAKARTA - INDONESIA - ENVIRONMENT SURVEY

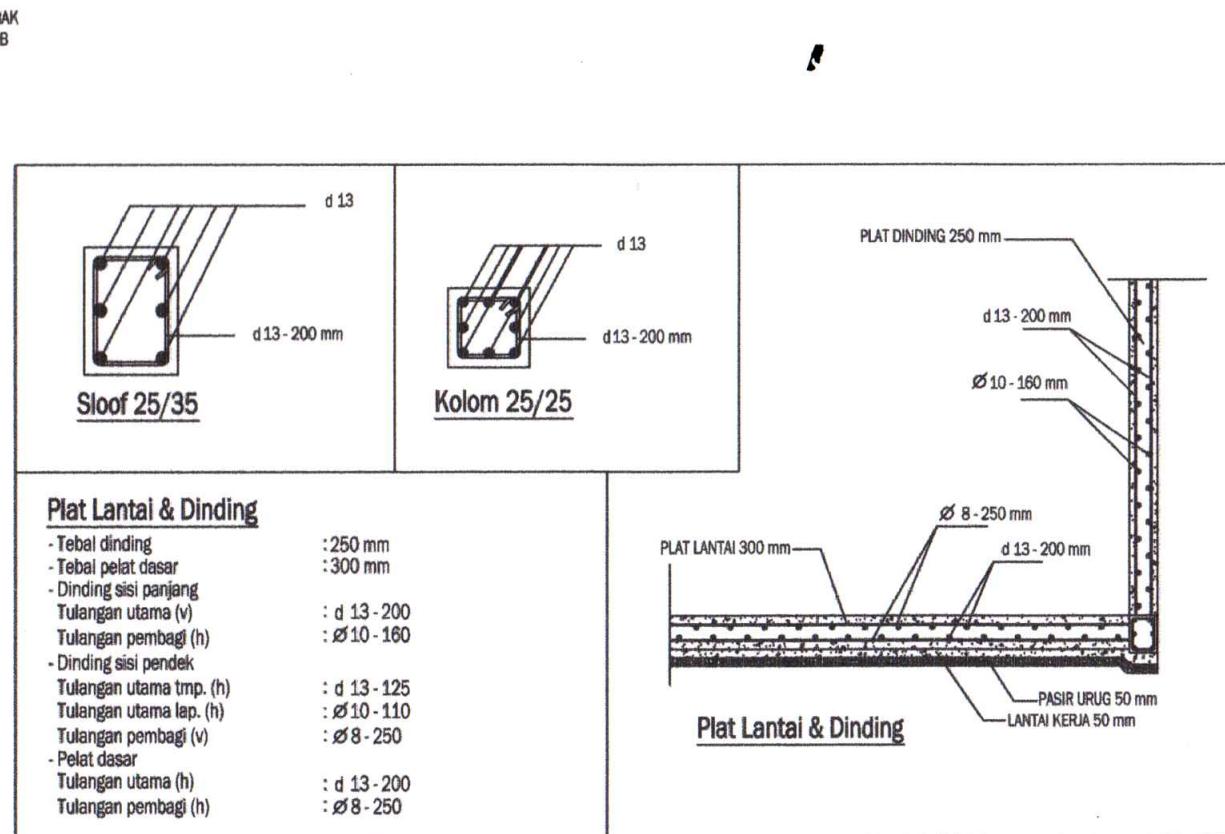
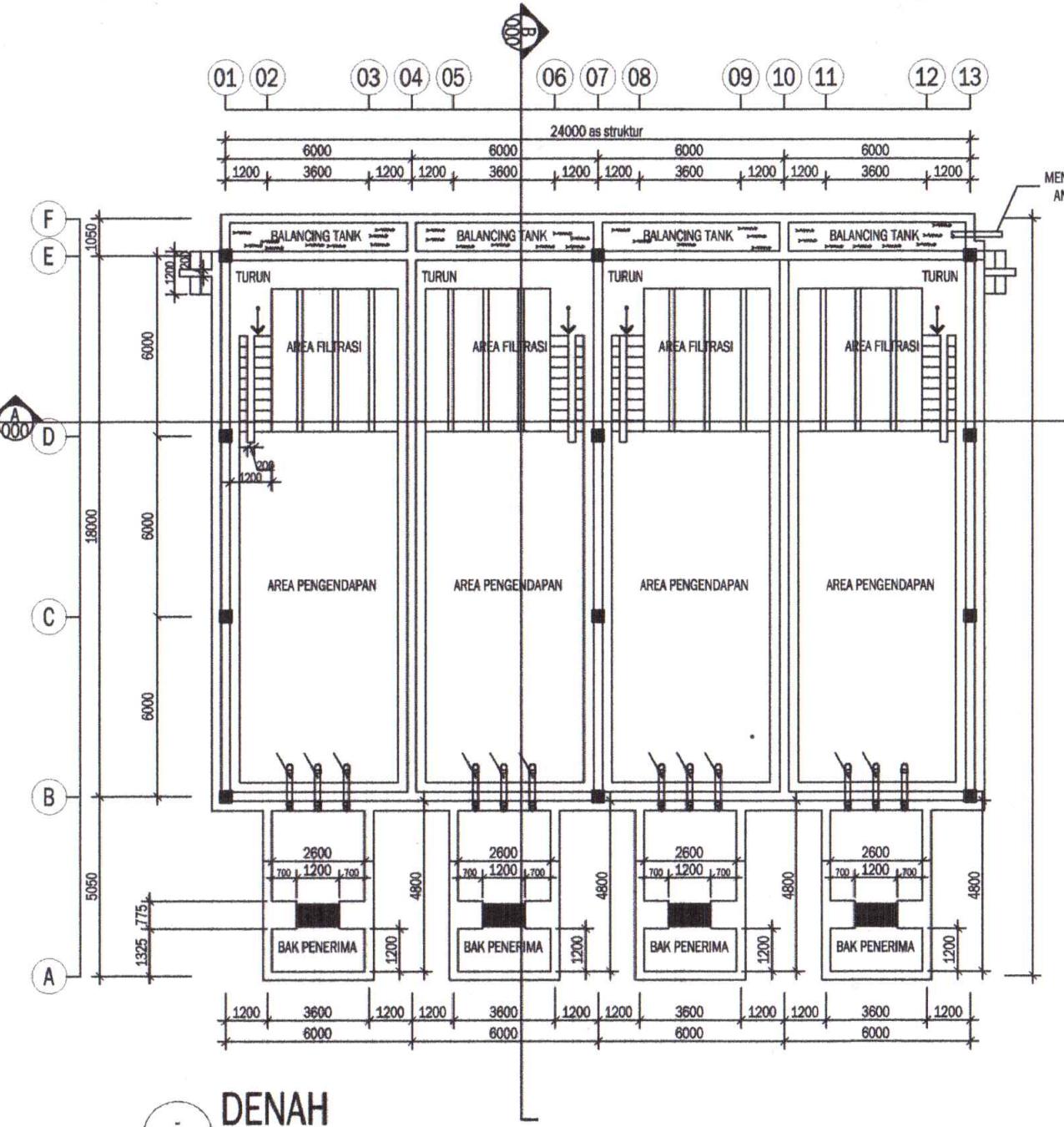
DIREKTUR UTAMA Ir. SYAMSUDIN ABDULAH	
---	--

TEAM LEADER ANDRI LESMANA ST.MIL	
-------------------------------------	--

JUDUL GAMBAR

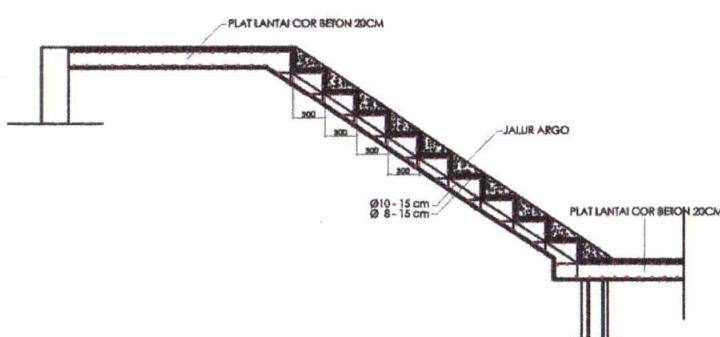
POTONGAN BAK DRYING AREA

SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR

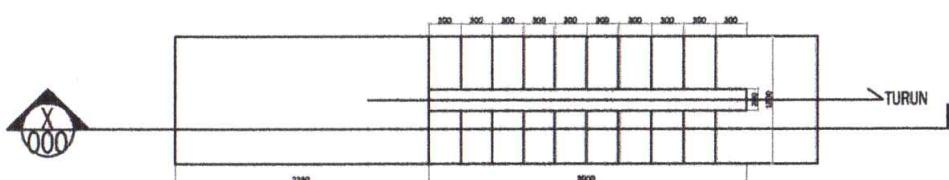


DETAIL PEMBESIAN

SKALA 1:20



POTONGAN X
SKALA 1:50



DENAH TANGGA
SKALA 1:50

BAK SSC

PANJANG	18,00
LEBAR	6,00
TINGGI BASAH	1,5
TINGGI FREE BOARD	0,5

KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRASARANA PEMERINTAH WILAYAH GORONTALO
3. Prof Dr. Abu Salim No. ST245-Whepmbi-Hita Gorontalo Tel/Fax 0415-82533

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP. 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD
MARTEN Y. LELENGBOTO, ST, MT

JOSEPH SETRIAWAN, ST

MUAZZIN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
Your engineering consulting solution
Civil - Structural - Urban - Hydronic - Geotechnical Services

DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

[Signature]

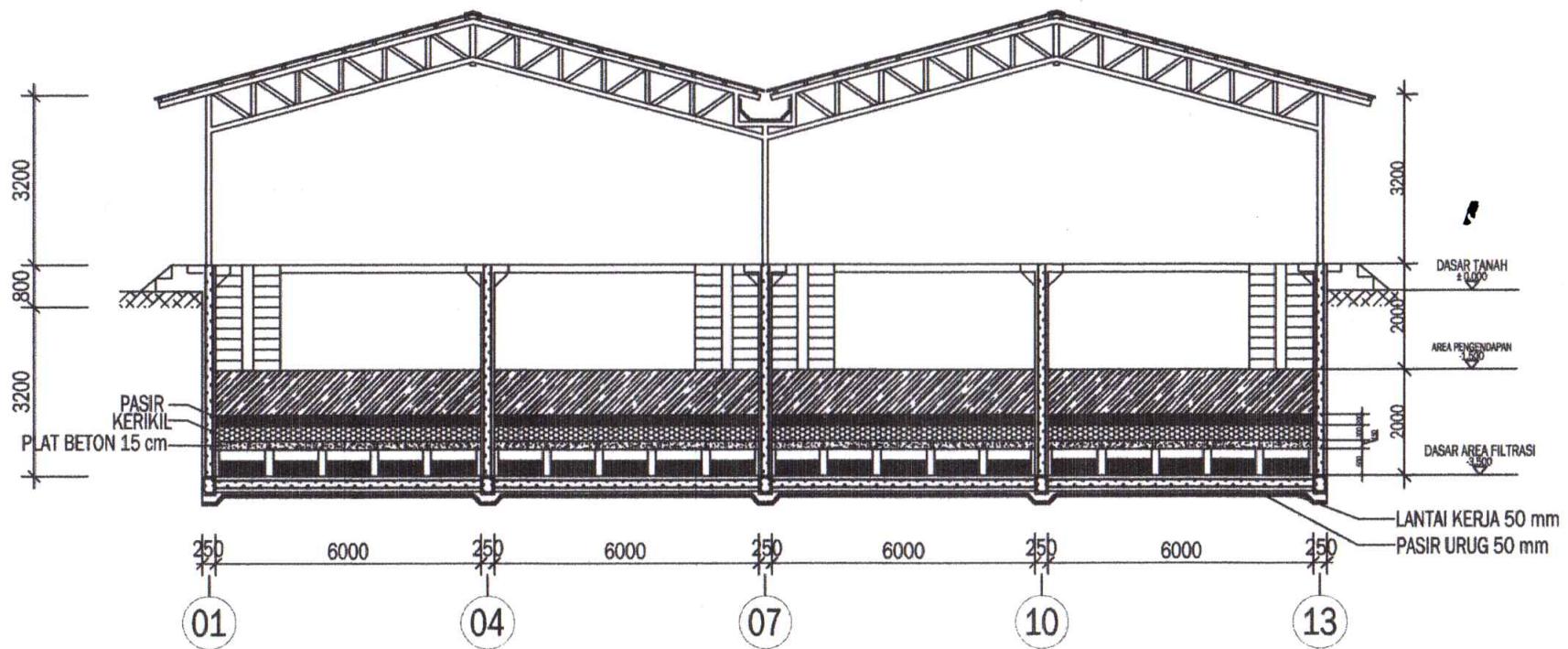
TEAM LEADER
ANDRI LESMANA ST.MIL

[Signature]

JUDUL GAMBAR

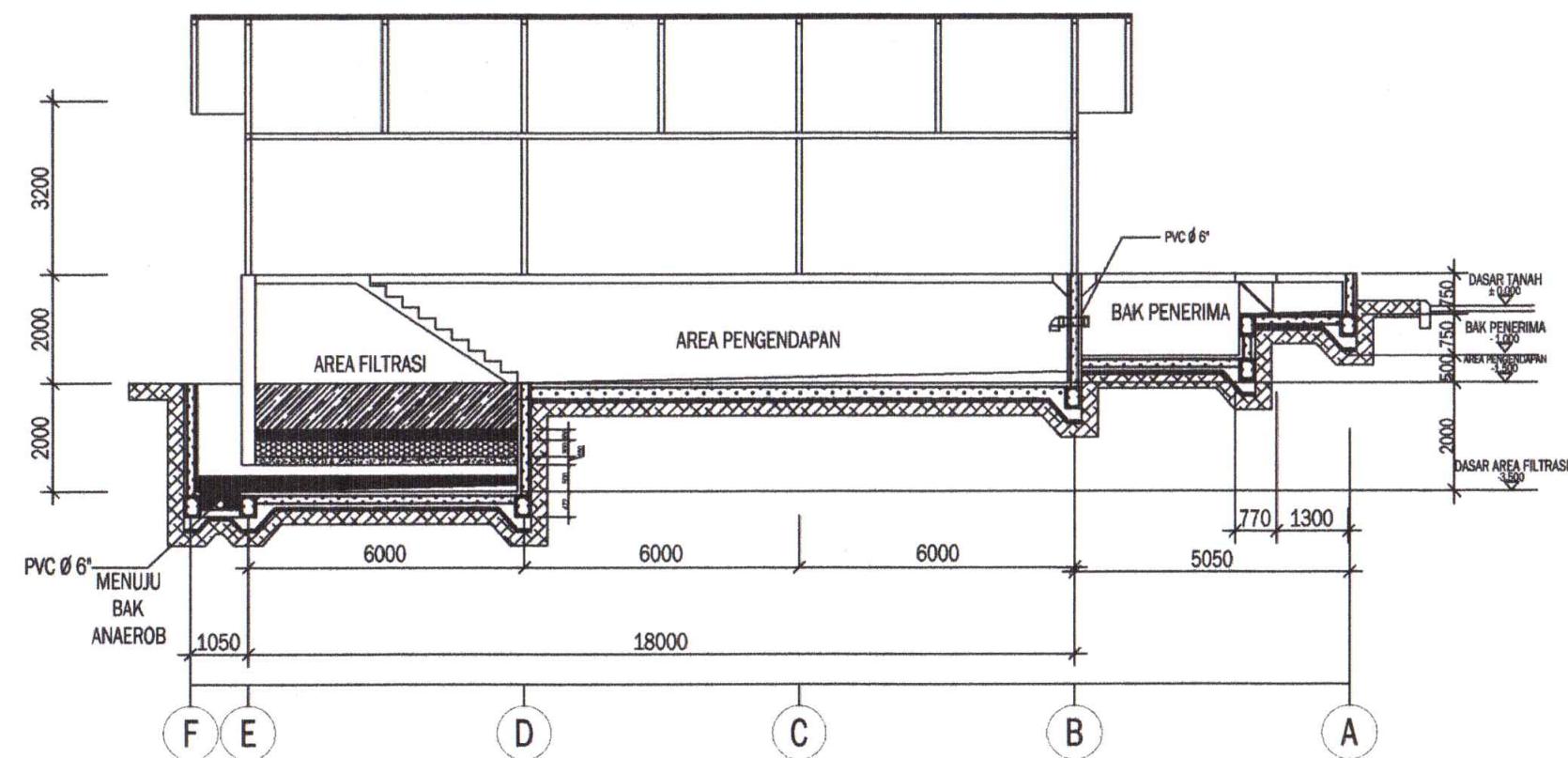
BAK SSC

SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR



POTONGAN - A

SKALA 1:150



POTONGAN - B

SKALA 1:150

KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL OPTA KARYA
BALAI PRASARANA PERMUKIMAN WILAYAH GORONTALO
Jl. Prof Dr. H. Soekarno No. 10, Kec. Wergu, Dist. Gorontalo Tel/Pel (043-42526)

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwato

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD

MARTEN Y. LELENGBOTO, ST, MT

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
Asia's engineering consulting solution
GJL - 2004 URAH - INDONESIA - DUNIA

DIREKTUR UTAMA

Ir. SYAMSUDIN ABDULAH

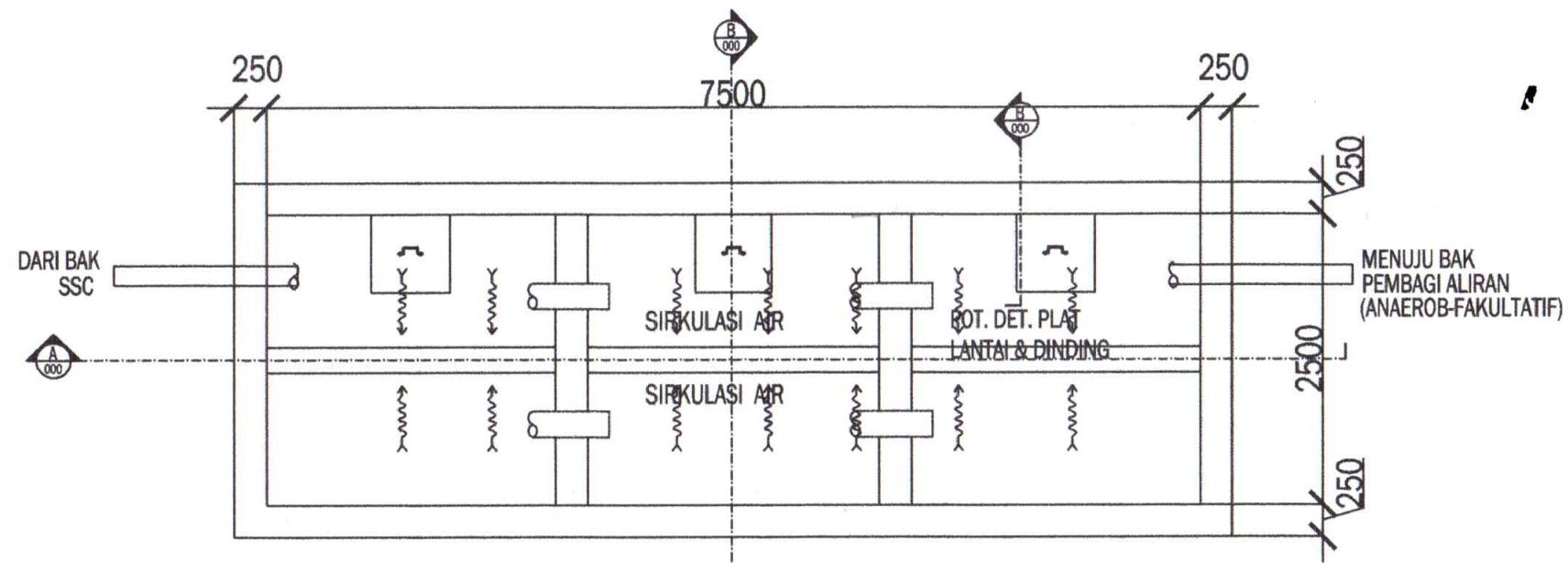
TEAM LEADER

ANDRI LESMANA, ST, MIL

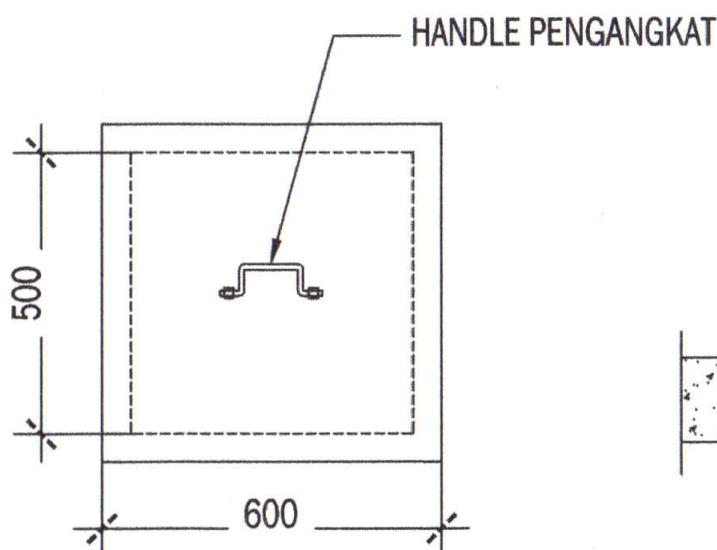
JUDUL GAMBAR

POTONGAN BAK SSC

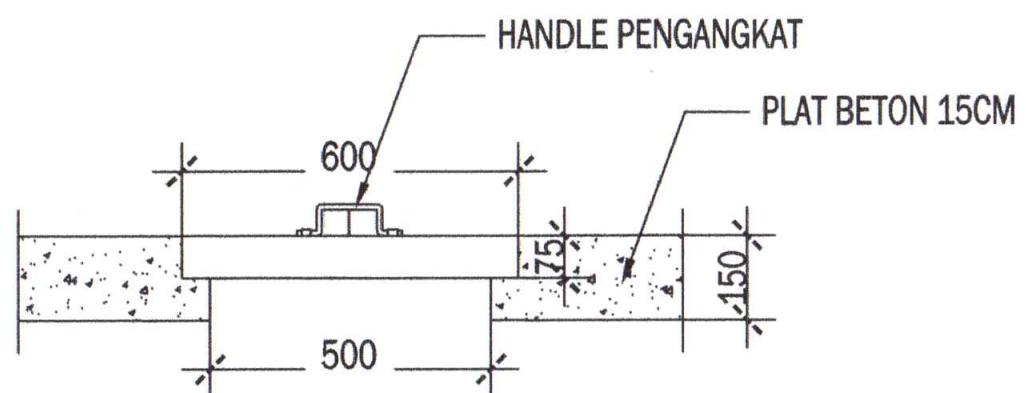
SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR



DENAH.
SKALA 1:60



TAMPAK ATAS MANHOLE
SKALA 1:15



POTONGAN MANHOLE
SKALA 1:15

BAK ANAEROBIK

PANJANG	7,50
LEBAR	2,50
TINGGI BASAH	4
TINGGI FREE BOARD	0,5

KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL Cipta Karya
BALAI PRASARANA PERMUKIMAN WILAYAH GORONTALO
Jl. Prof. Dr. Arief Salim No. 92, Kel. Mengkudu Kec. Tenggarong Sel. Kode Pos 96242

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP. 19790119 200802 2 001

MENYETUJI

TIM TEKNIS	TTD
MARTEN Y. LELENGBOTO, ST, MT	

JOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMDHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
For engineering consulting services
041-3352 1800-1899-1999-2099

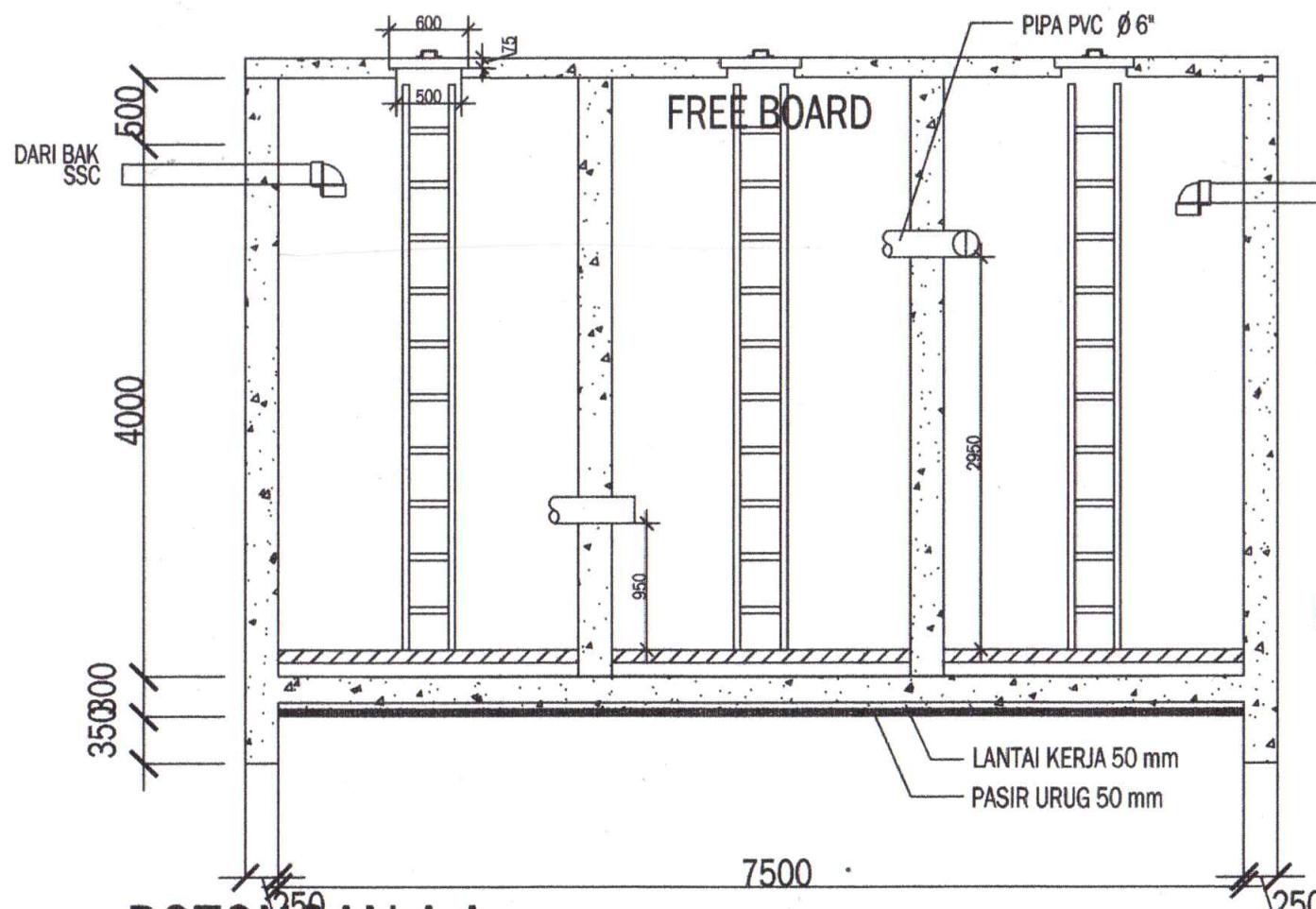
DIREKTUR UTAMA	Ir. SYAMSUDIN ABDULAH

TEAM LEADER	ANDRI LESMANA, ST, MIL

JUDUL GAMBAR

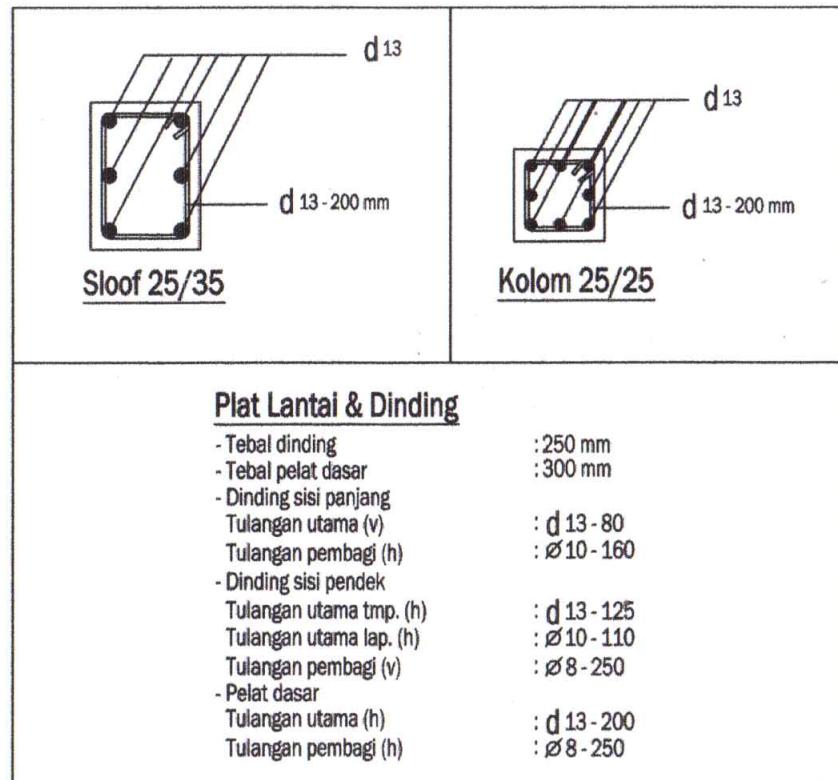
BAK ANAEROBIK

SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR



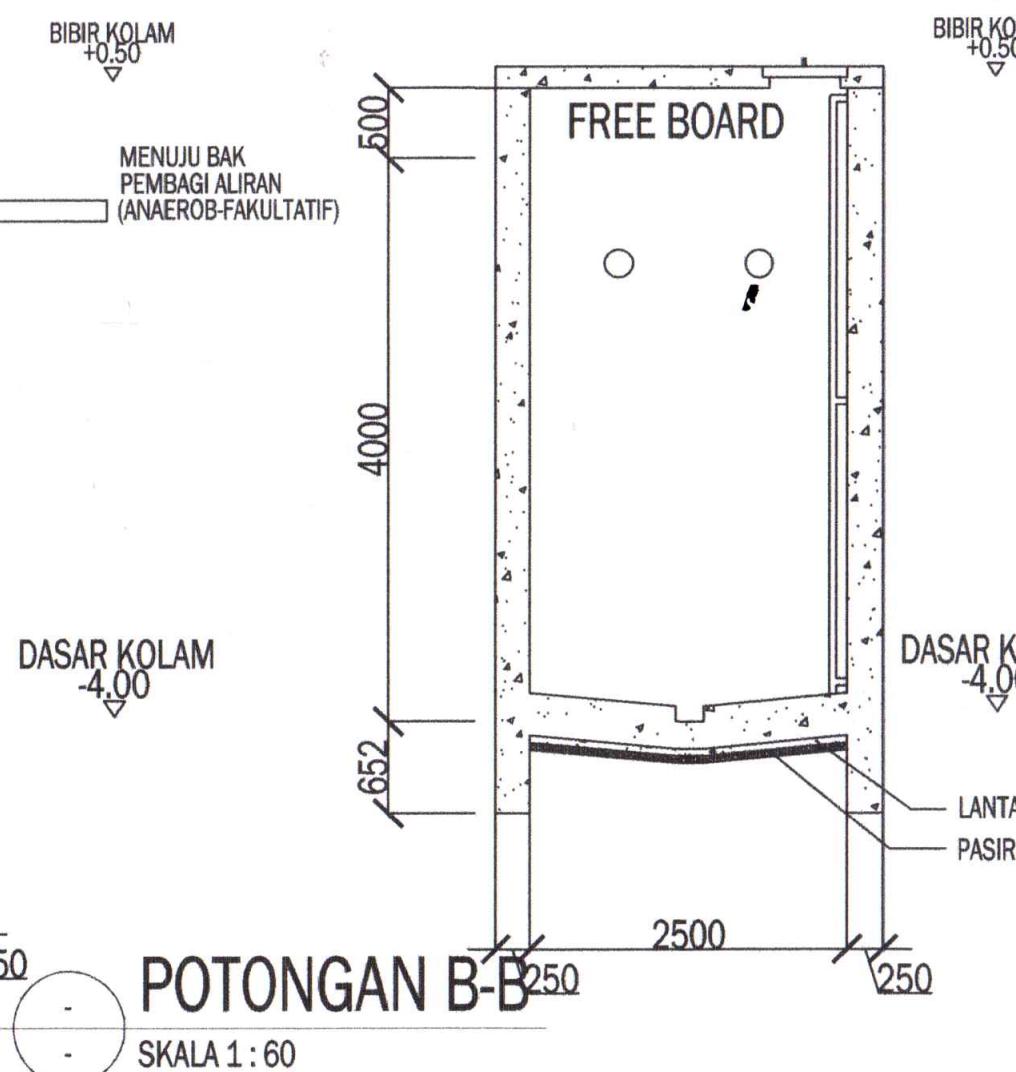
POTONGAN A-A

SKALA 1:60



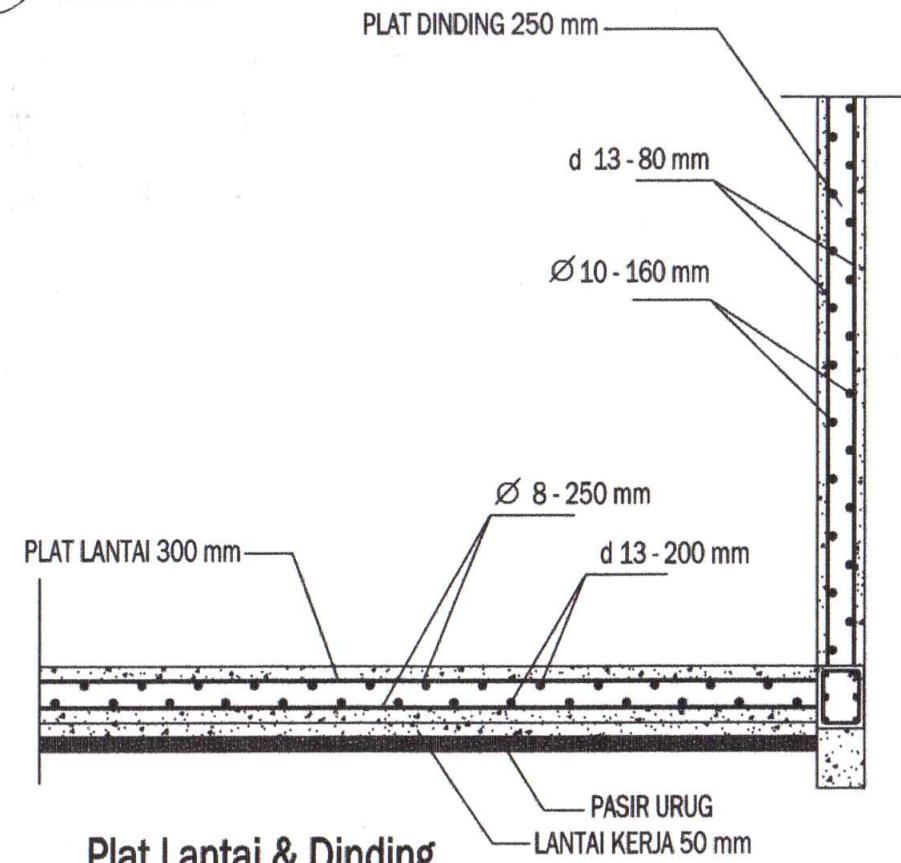
DETAIL PEMBESIAN

SKALA 1:100



POTONGAN B-B

SKALA 1:60



Plat Lantai & Dinding

KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL OPTIMA KARYA
BALAI PRASARANA PERMUKIMAN WILAYAH GORONTALO
Jl. Prof Dr. Aisyah Selatan No. 102, Jl. Wijayakusuma Kec. Gorontalo Telp/Fax: (015-62562)

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwato

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS

MARTEN Y. LELENGBOTO, ST, MT

JOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
Asia engineering consulting solution
DA - 3326 JAKARTA - INDONESIA

DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA ST, MIL

JUDUL GAMBAR

BAK ANAEROBIK

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR

MENYETUJUI

TIM TEKNIS TTD

MARTEN Y. LELENGBOTO, ST, MT

JOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
Engineering consulting solution
GJ - 2004 Uban - Muara - Parmoncon - Sukris

DIREKTUR UTAMA

Ir. SYAMSUDIN ABDULAH

[Signature]

TEAM LEADER

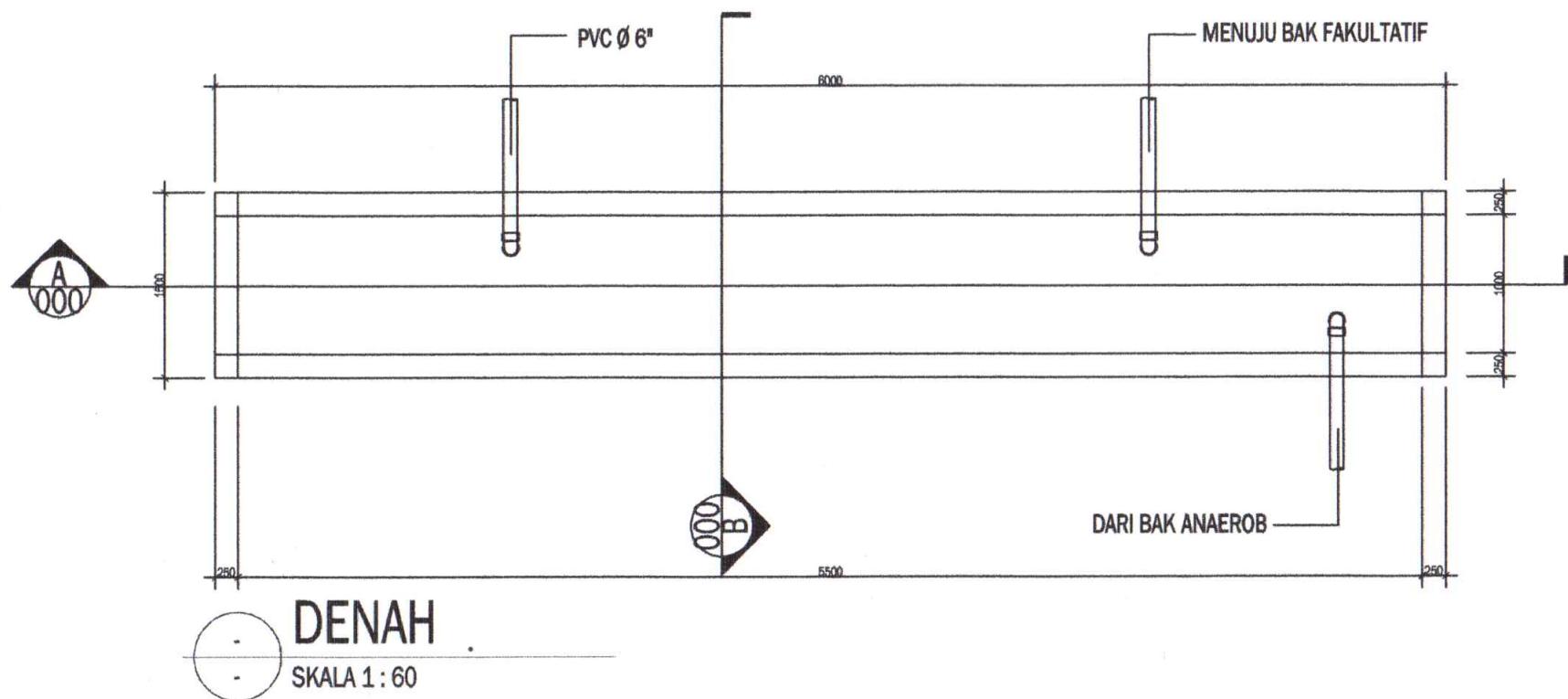
ANDRI LESMANA ST.MIL

A

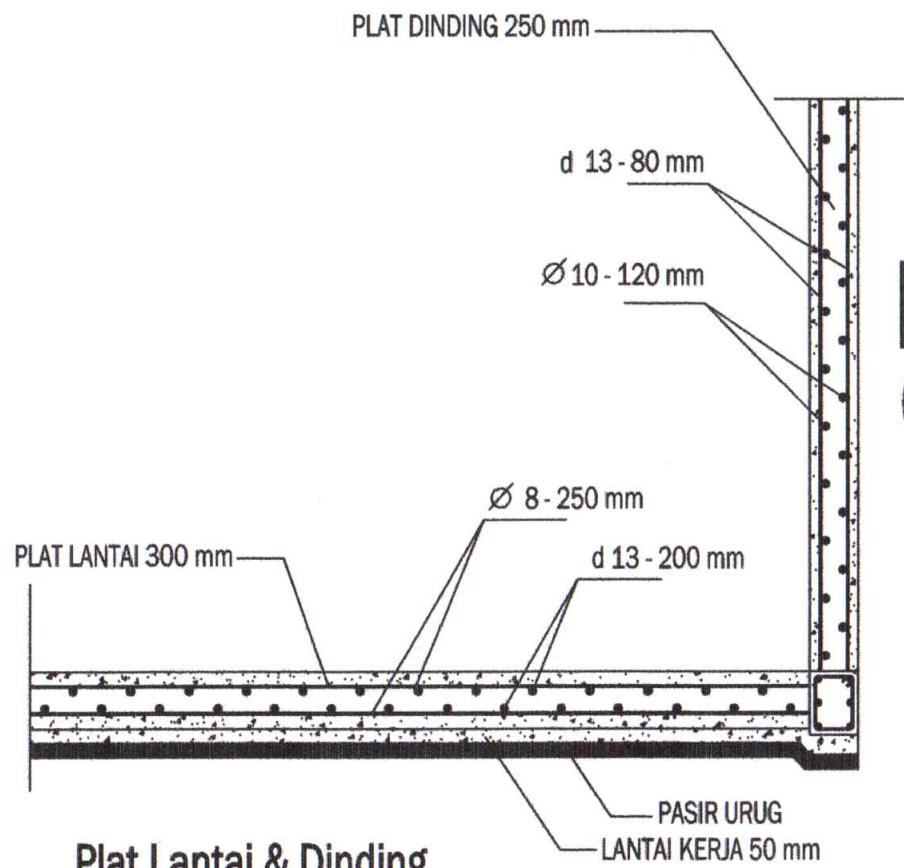
JUDUL GAMBAR

BAK PEMBAGI ALIRAN
(ANAEROB-FAKULTATIF)

PANJANG	5,00
LEBAR	1,50
TINGGI BASAH	0,75
TINGGI FREE BOARD	0,5



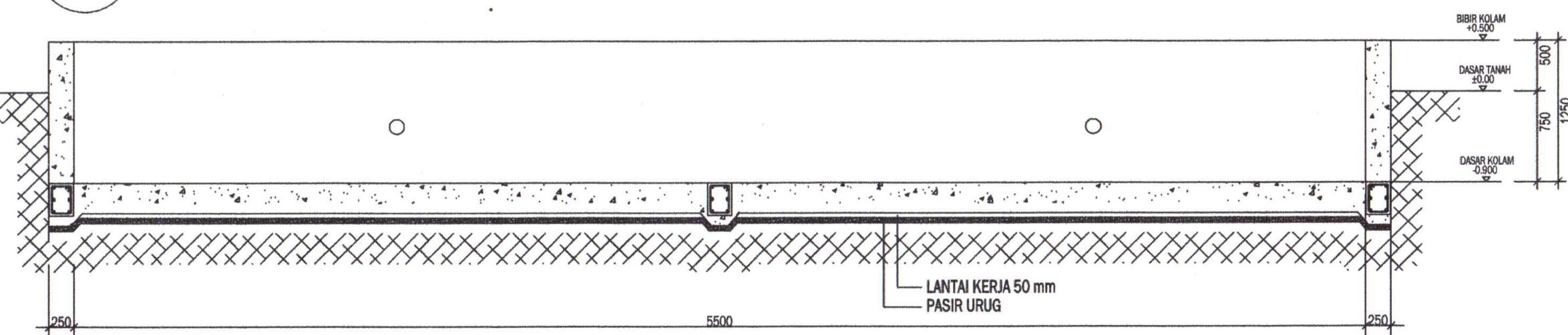
d 13 d 13 - 200 mm	d 13 d 13 - 200 mm
Plat Lantai & Dinding	
<ul style="list-style-type: none"> - Tebal dinding : 250 mm - Tebal pelat dasar : 300 mm - Dinding sisi panjang Tulangan utama (v) : d 13 - 80 Tulangan pembagi (h) : Ø 10 - 120 - Dinding sisi pendek Tulangan utama tipe. (h) : d 13 - 52 Tulangan utama lapis. (h) : Ø 10 - 43 Tulangan pembagi (v) : Ø 8 - 100 - Pelat dasar Tulangan utama (h) : d 13 - 200 Tulangan pembagi (h) : Ø 8 - 250 	



BAK PEMBAGI ALIRAN (ANAEROB-FAKULTATIF)

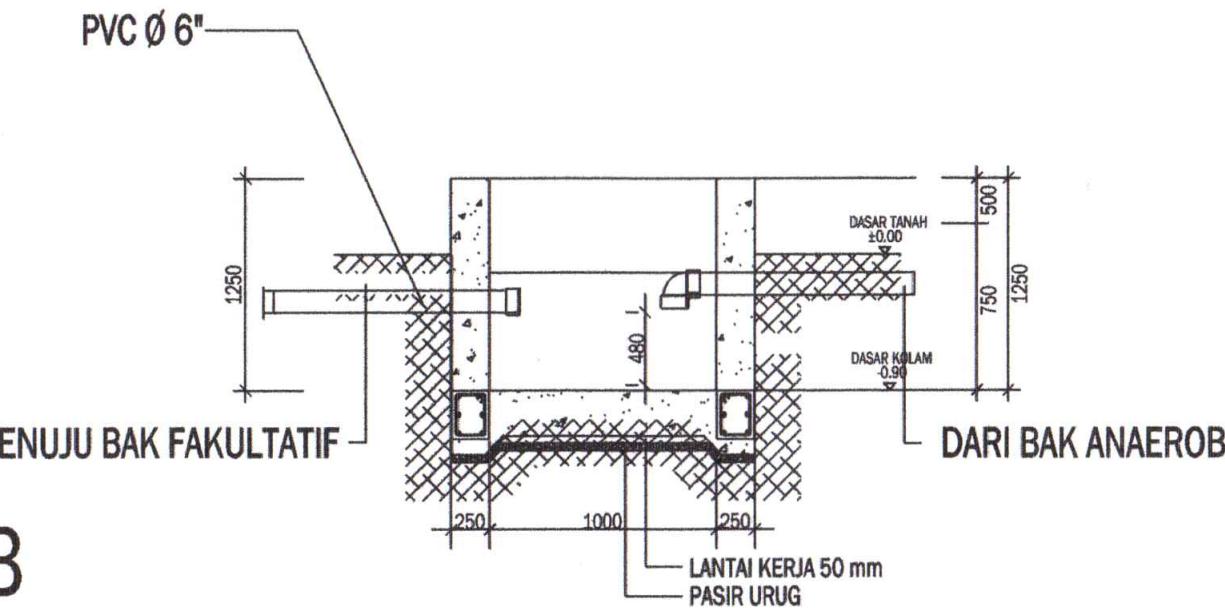
POTONGAN B-B

SKALA 1:30



POTONGAN A-A

SKALA 1:30



KEMENTERIAN PUPR
DIREKTORAT JENDERAL CPT KARYA
BALAI PRASARANA PEMUKIMAN NELAYAN GORONTALO
X. Prof Dr. Andi Sabar B.E.Ir.M.Sc. Mengandalkan Karya Cerdas Teliti Efektif

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwato

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJUI

TIM TEKNIS	TTD
MARTEN Y. LELENGBOTO, ST,MIT	

YOSEPH SETRIAWAN, ST	
----------------------	--

MUAZMAN HAMZAH, ST	
--------------------	--

MOHAMMAD ARDIYA RAMADHAN, ST	
------------------------------	--

MONIKA STEVI CAROLIN, ST	
--------------------------	--

KONSULTAN

PT. ORCHI CIVIL konsultan	
---------------------------	--

DIREKTUR UTAMA	Ir. SYAMSUDIN ABDULAH
----------------	-----------------------

TEAM LEADER	ANDRI LESMANA ST,MIL
-------------	----------------------

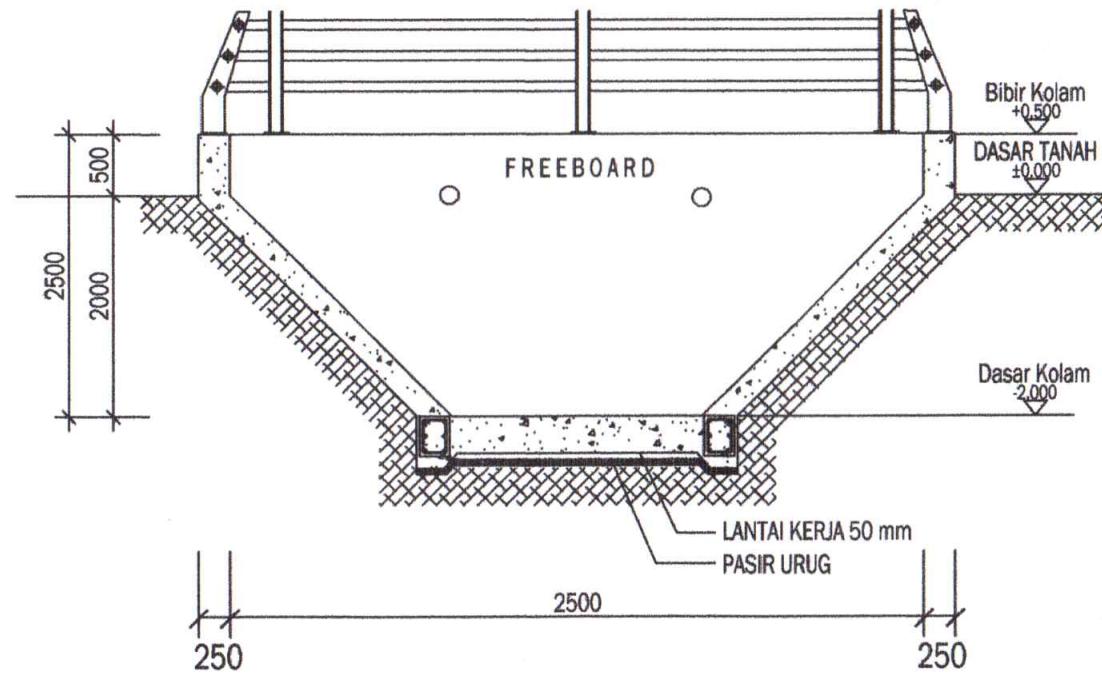
JUDUL GAMBAR

POTONGAN BAK PEMBAGI ALIRAN
(ANAEROB-FAKULTATIF)

SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR

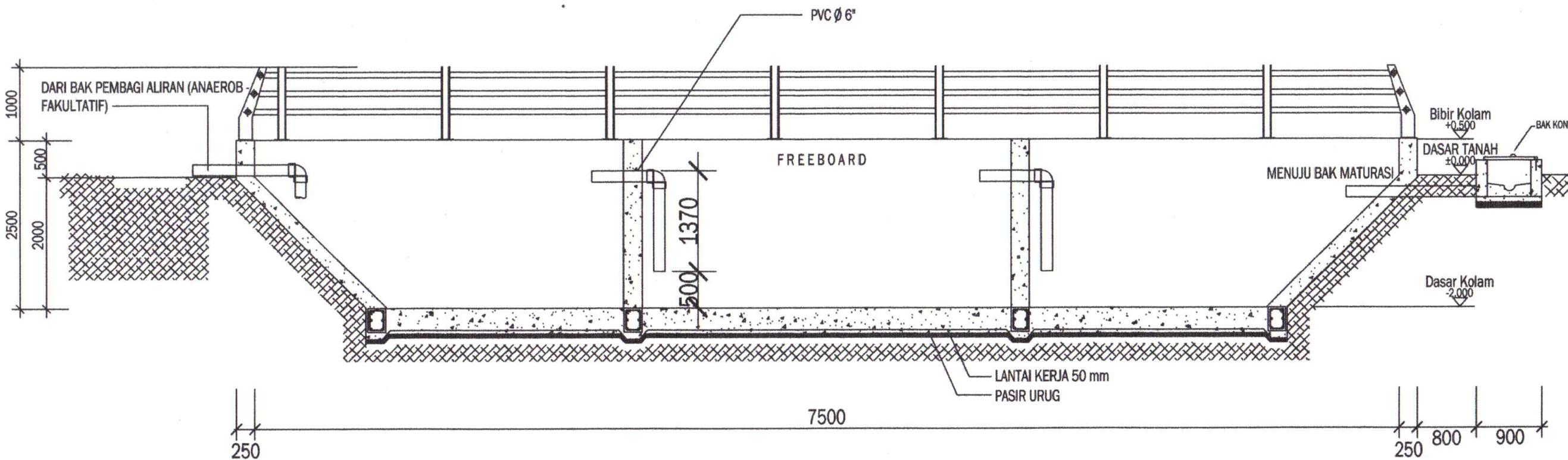
POTONGAN A-A

SKALA 1:30



POTONGAN B-B

SKALA 1:30



KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRASARANA PERMUKIMAN MILAH GORONTALO
Dr. Prof. Drs. H. Sabot, M.Si. Wibanggill atau Generalis Telpon: 045-62526

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwato

PPK PERENCANAAN
BP2W GORONTALO

WIRDA, H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJUI

TIM TEKNIS	TTD
------------	-----

MARTEN Y. LELENGBOTO, ST, MT

JOSEPH SETRIAWAN, ST

MUAZZAM HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ERCHI CIVIL Konsultan
Engineering consulting solution

DIREKTUR UTAMA

ir. SYAMSUDIN ABDULAH

TEAM LEADER

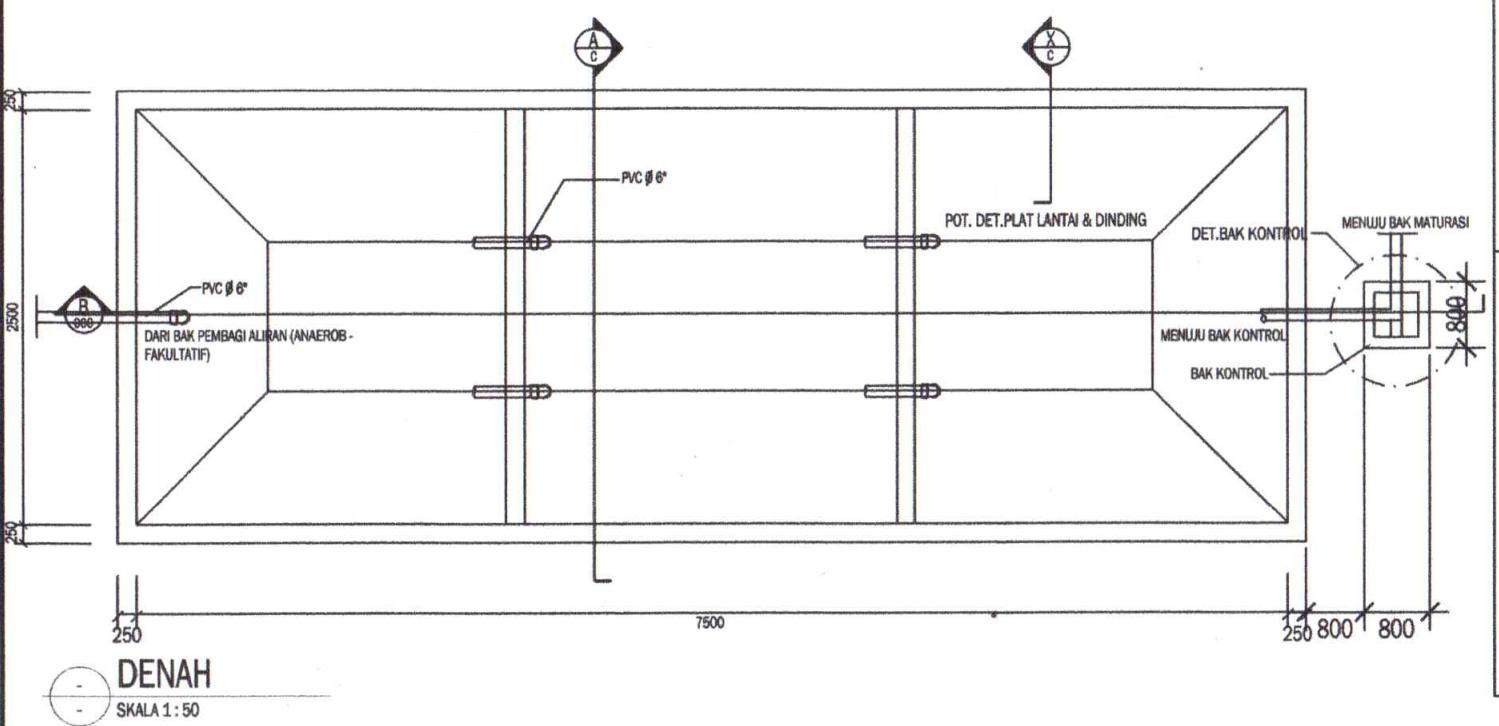
ANDRI LESMANA, ST, MIL

JUDUL GAMBAR

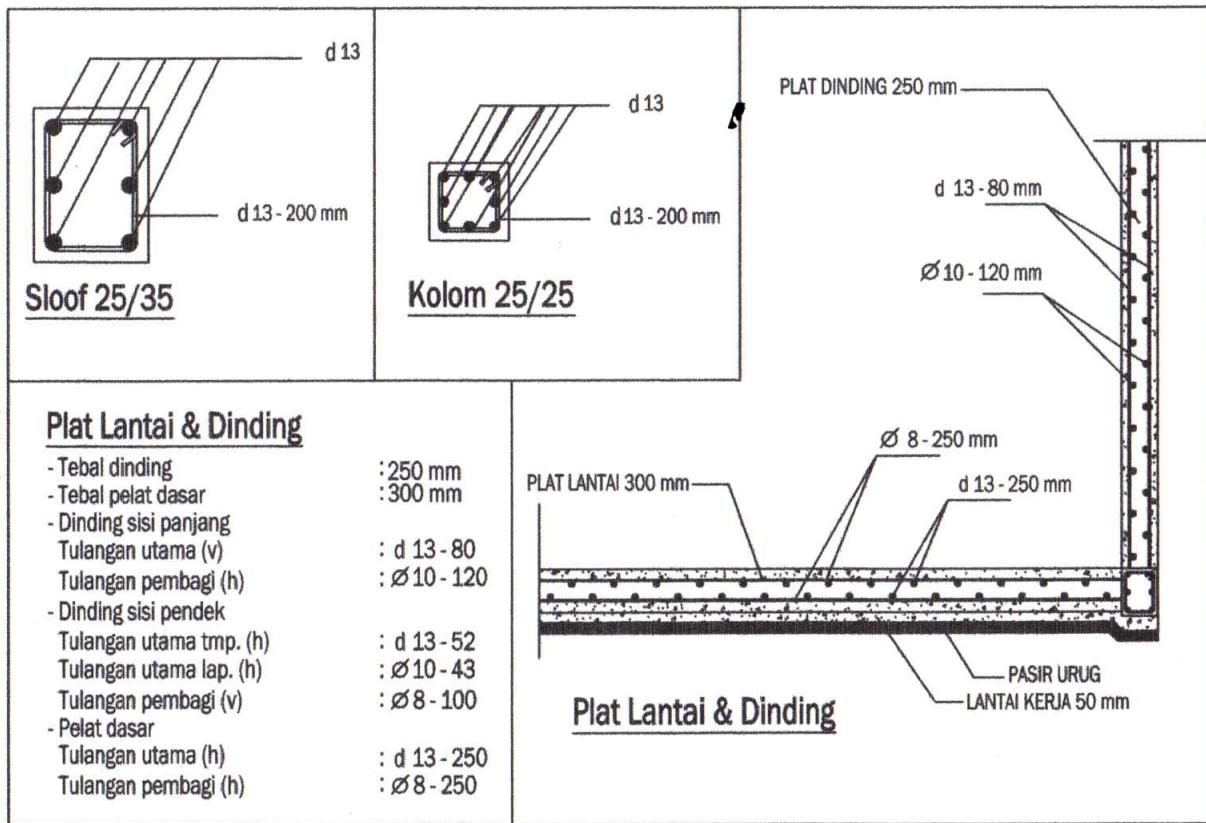
POTONGAN BAK FAKULTATIF

SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR
--------------	-------------	--------------	---------------

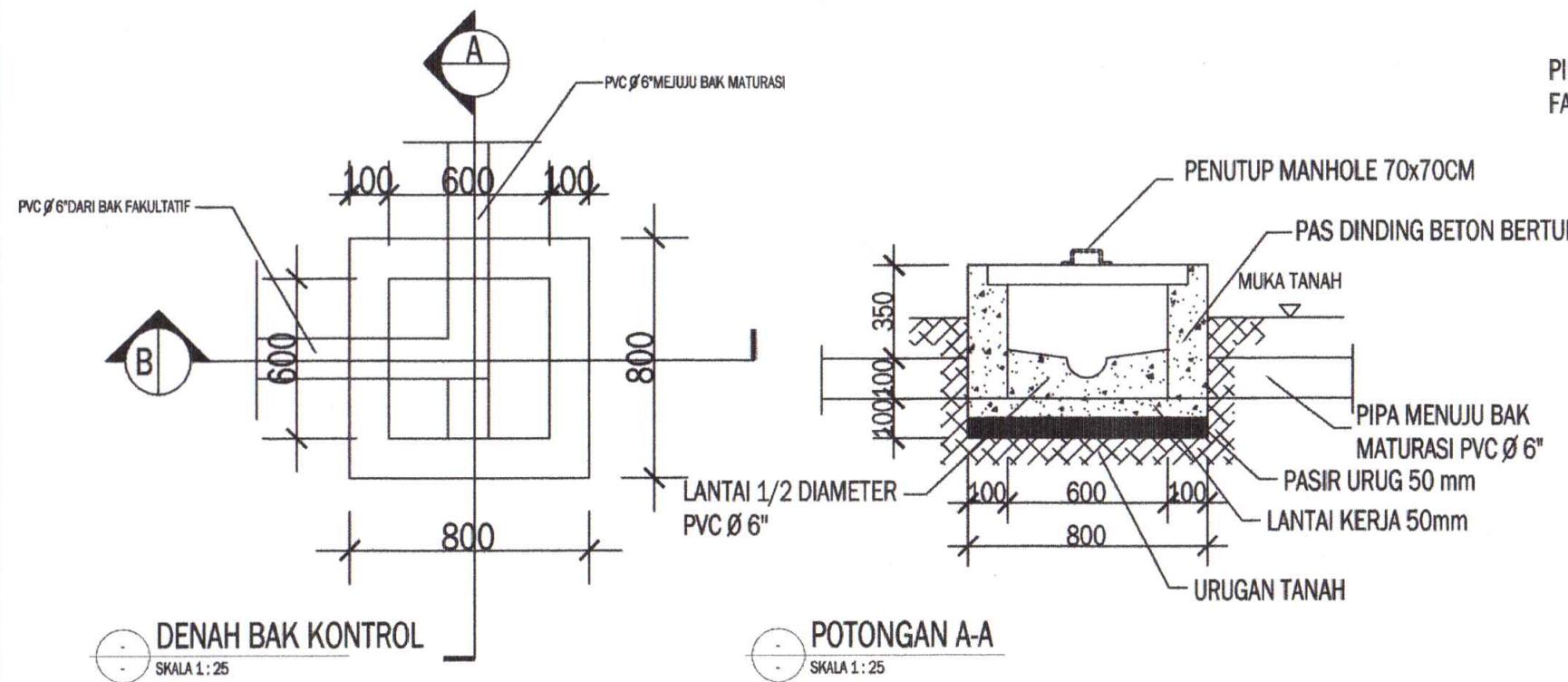
--	--	--	--



DENAH
SKALA 1:50

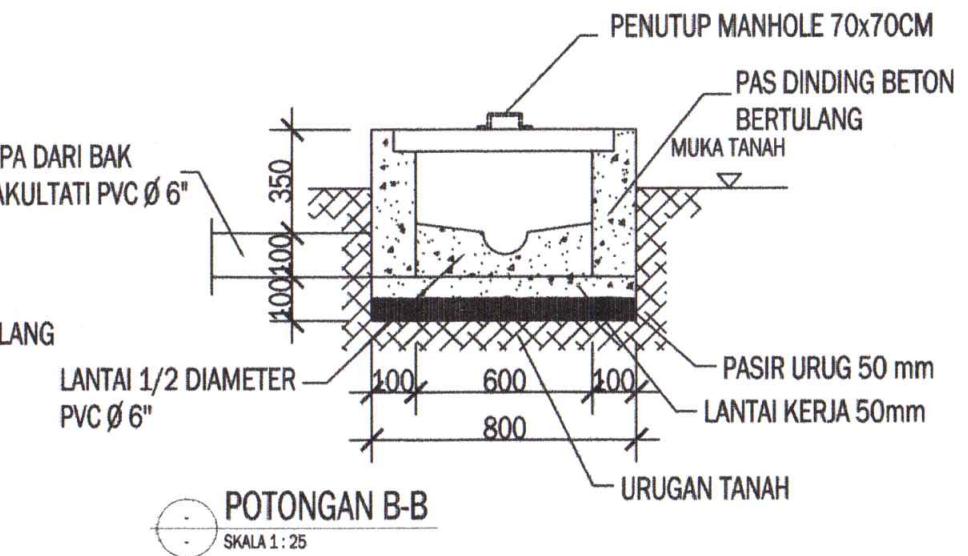


DETAIL PEMBESIAN
SKALA 1:25



DENAH BAK KONTROL
SKALA 1:25

POTONGAN A-A
SKALA 1:25



POTONGAN B-B
SKALA 1:25

BAK FAKULTATIF

PANJANG	7,50
LEBAR	2,50
TINGGI BASAH	2
TINGGI FREE BOARD	0,5

KEMENTERIAN PEKERJAAN RUMAH DAN PERUMAHAN RAYA
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRASARANA PERMUKIMAN MULYAN GORONTALO
X Prof Dr. Abet Salim, No. 12, Jl. Wengkili Desa Gondrong Telp/Fax: 043-62360

REVIEW DEB
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI
TIM TEKNIS TTD

MARTEN Y. LELENGBOTO, ST, MT

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
Prix for engineering consulting solution
Civil - Soils - Geohazard - Environment - Survey

DIREKTUR UTAMA

Ir. SYAMSUDIN ABDULAH

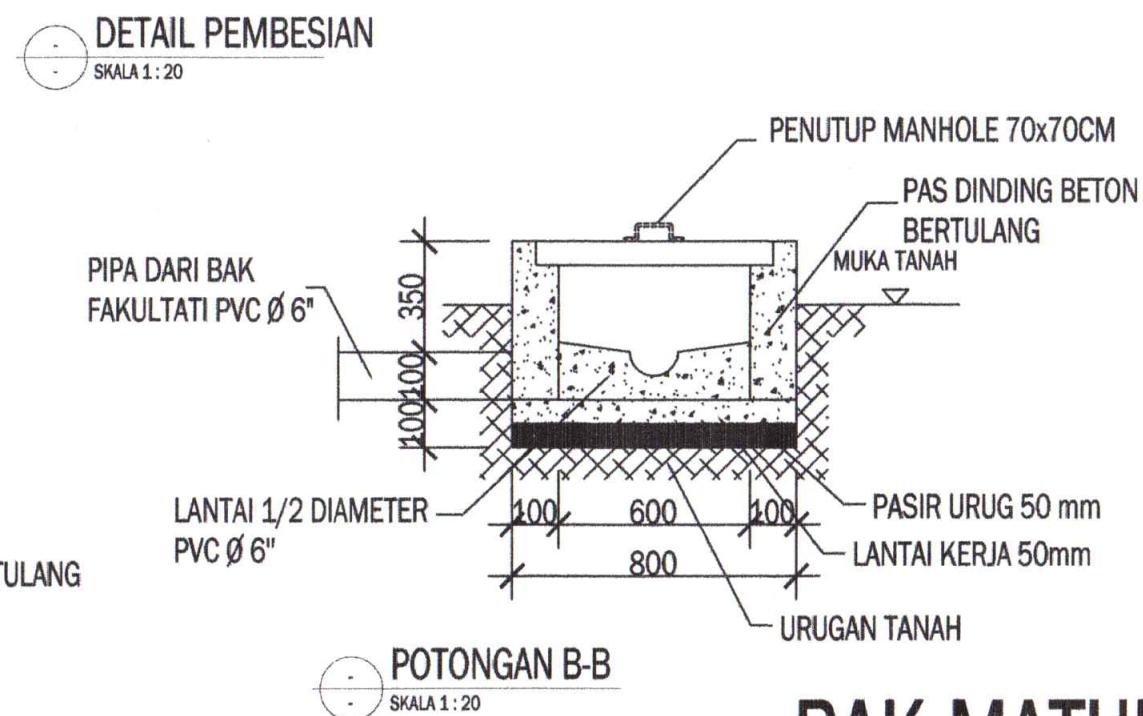
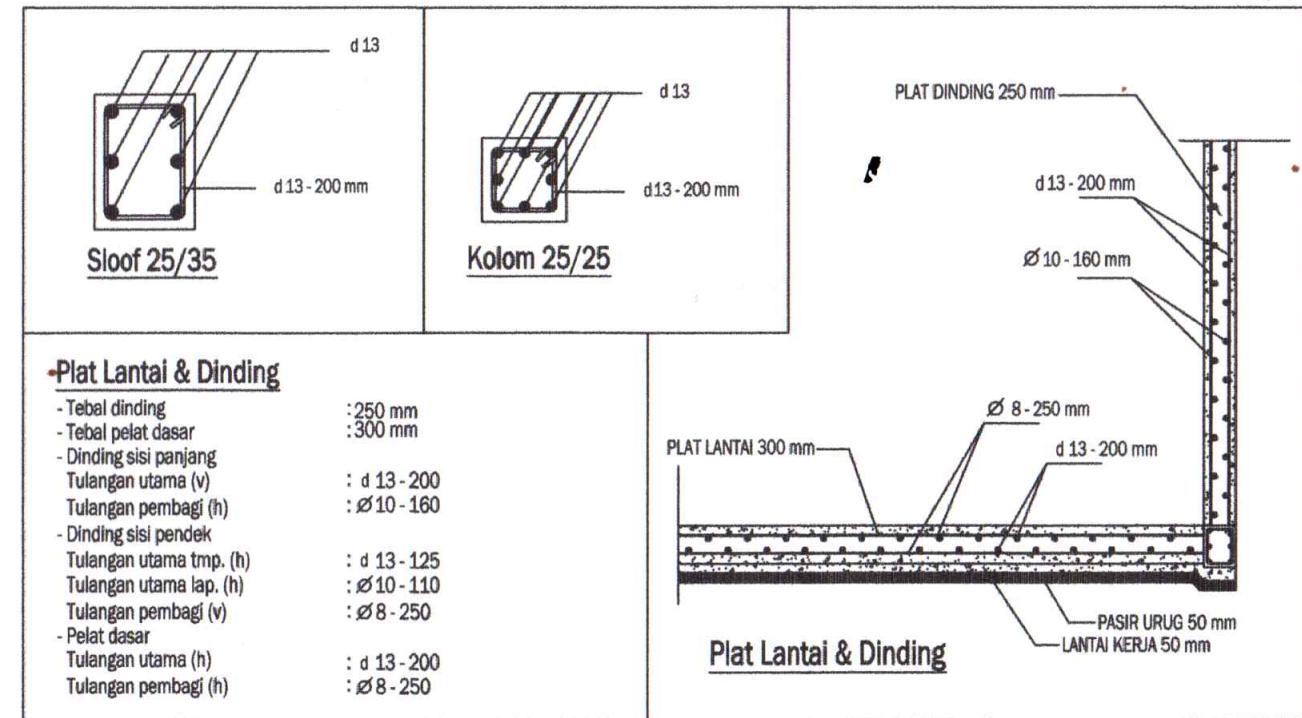
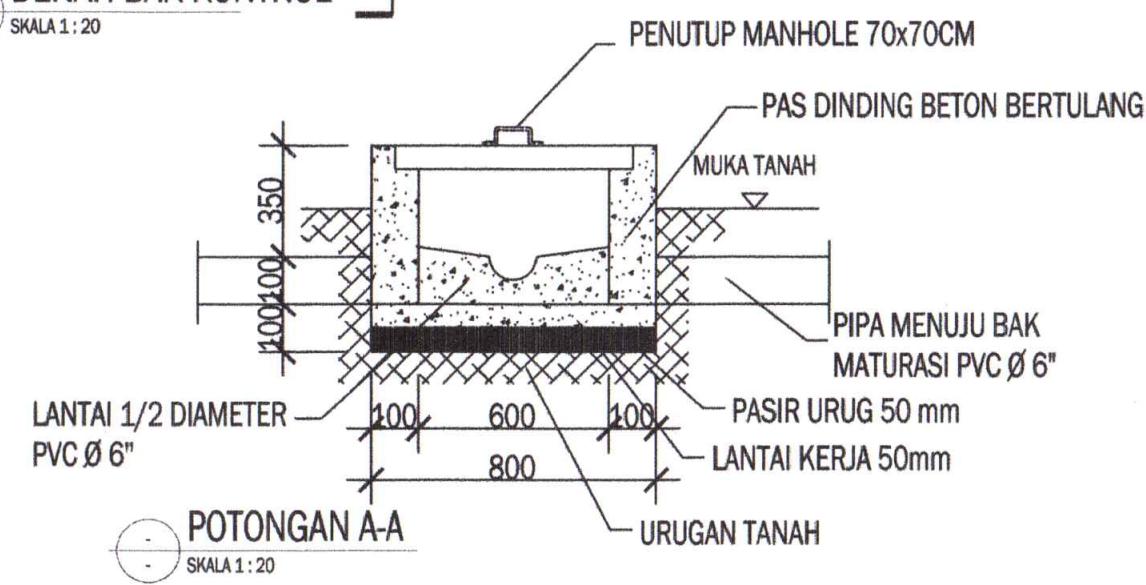
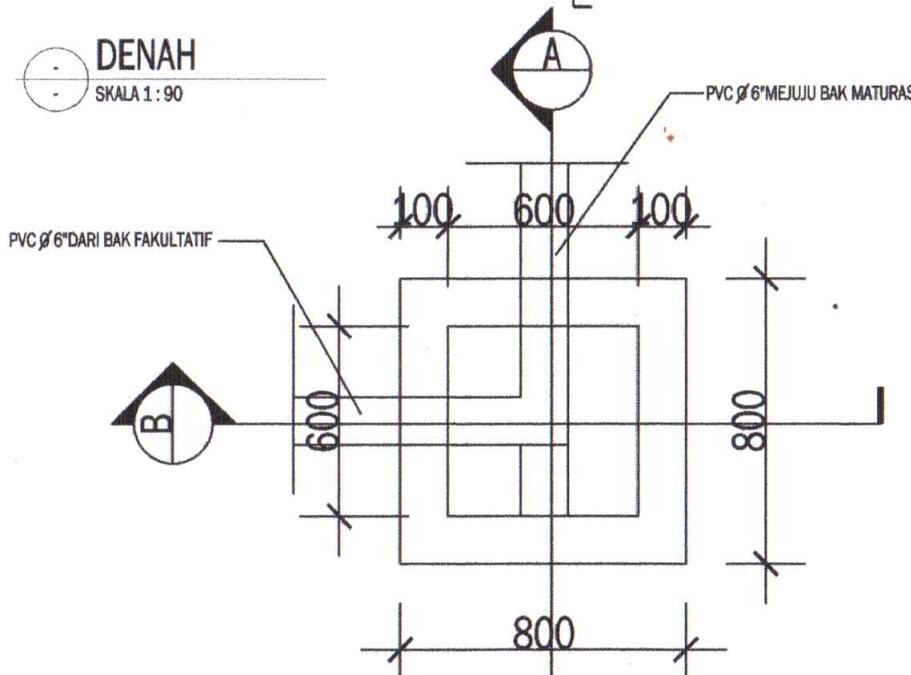
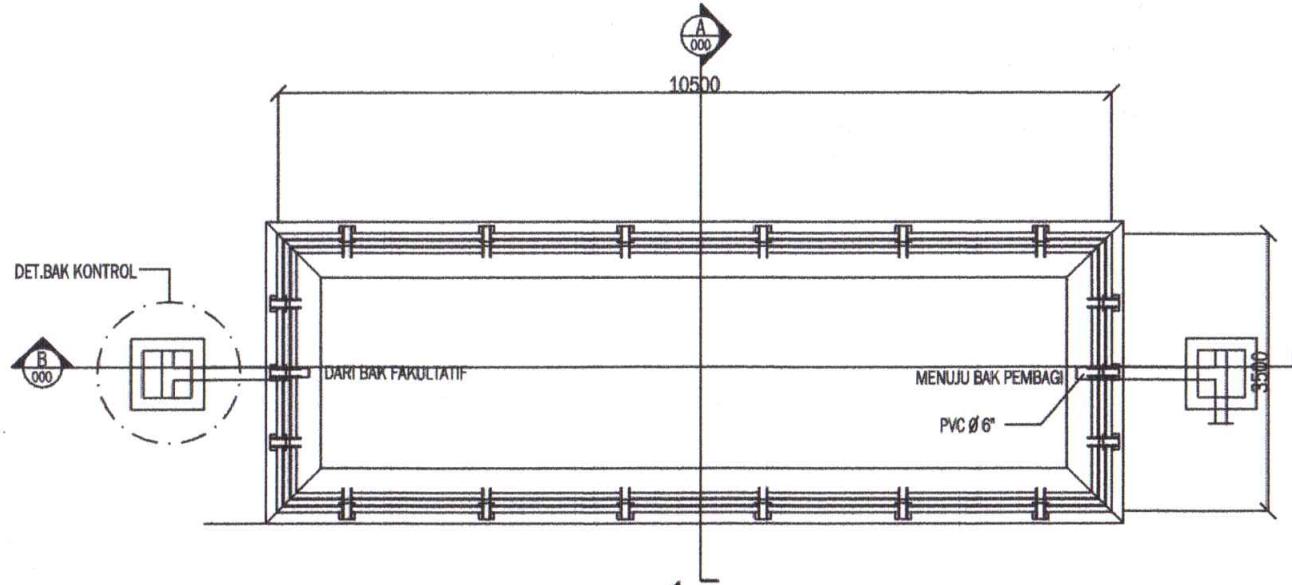
TEAM LEADER

ANDRI LESMANA ST.MIL

JUDUL GAMBAR

BAK FAKULTATIF

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR



BAK MATERASI

PANJANG	10,50
LEBAR	3,50
TINGGI BASAH	1,50
TINGGI FREE BOARD	0,5

KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CITA KARYA
BALAI PRASARANA PERMUKIMAN WILAYAH GORONTALO
Jl. Prof. Dr. Abd. Salam No. 51/da. Wenggut/Blok Gorontalo Tel/Fax 0415-523262

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI
TIM TEKNIS TTD
MARTEN Y. LELENGBOTI, ST, MT
YOSEPH SETRIAWAN, ST
MUAZMAN HAMZAH, ST
MOHAMMAD ARDIYA RAMADHAN, ST
MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. BRECHI CIVIL konsultan
Your engineering consulting solution
Civil - Geotech - Hydraulics - Environment Services

DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA ST.MIL

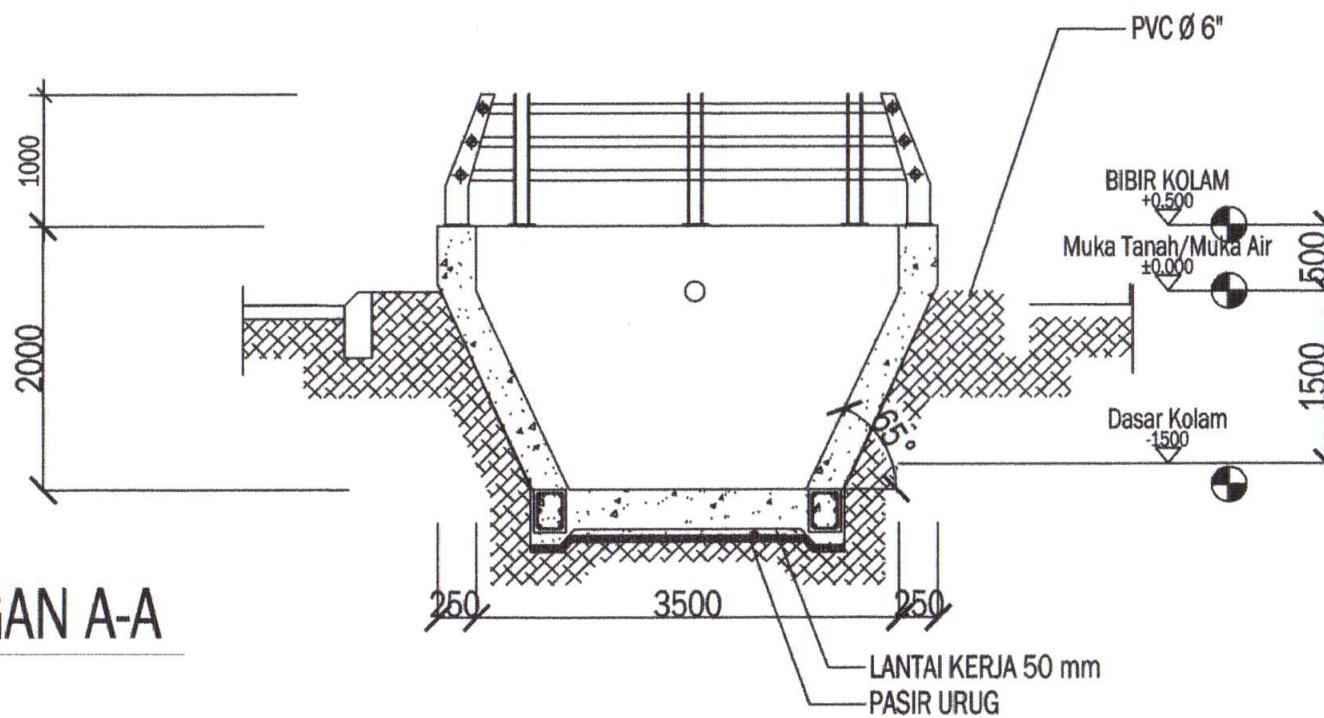
JUDUL GAMBAR

BAK MATERASI

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR

POTONGAN A-A

SKALA 1:60



KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRASARANA PEMERINTAHAN WILAYAH GORONTALO
Jl. Prof Dr. Abd Salam No.51, Kec. Wongblado Kota Gorontalo Telp/Fax: (043-82598)

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwato

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP. 19790119 200802 2 001

MENYETUWI

TIM TEKNIS TTD

MARTEN Y. LELENGBOTI, ST, MT

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
For engineering consulting solution
Dr. - 3304. JAKA - INDONESIA SERVICE

DIREKTUR UTAMA

Ir. SYAMSUDIN ABDULAH

TEAM LEADER

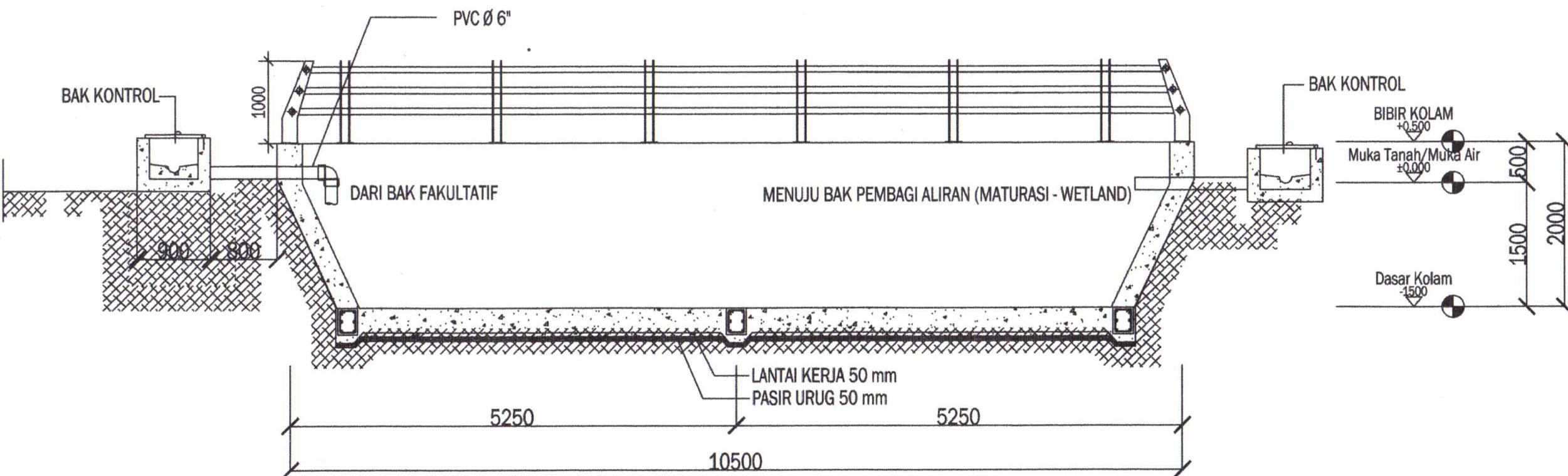
ANDRI LESMANA ST.MIL

JUDUL GAMBAR

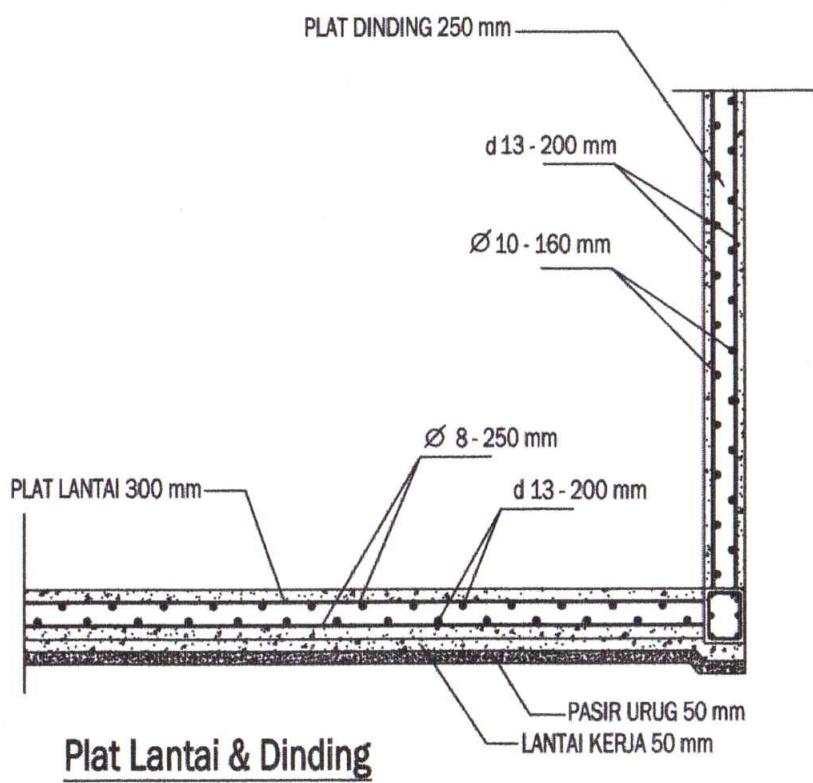
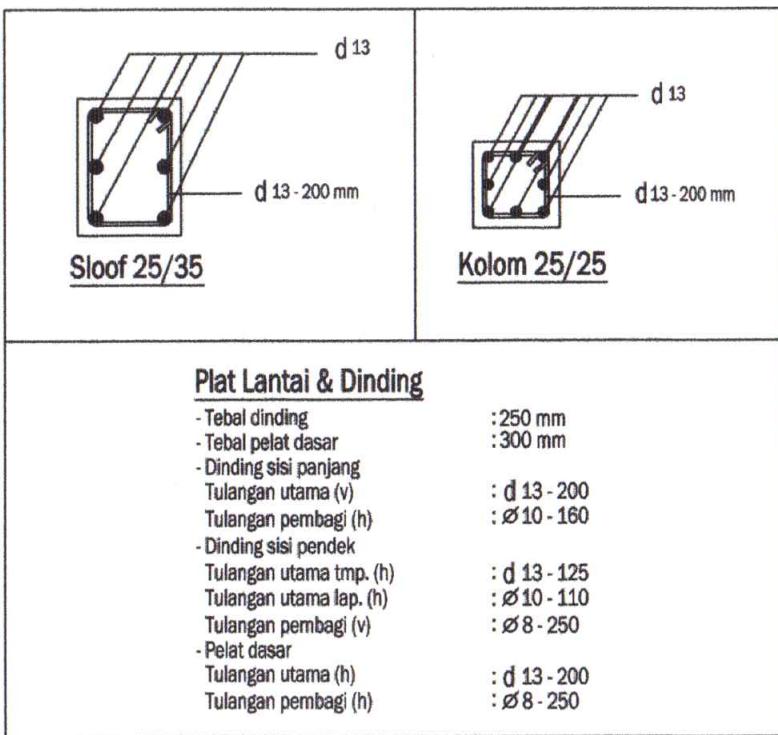
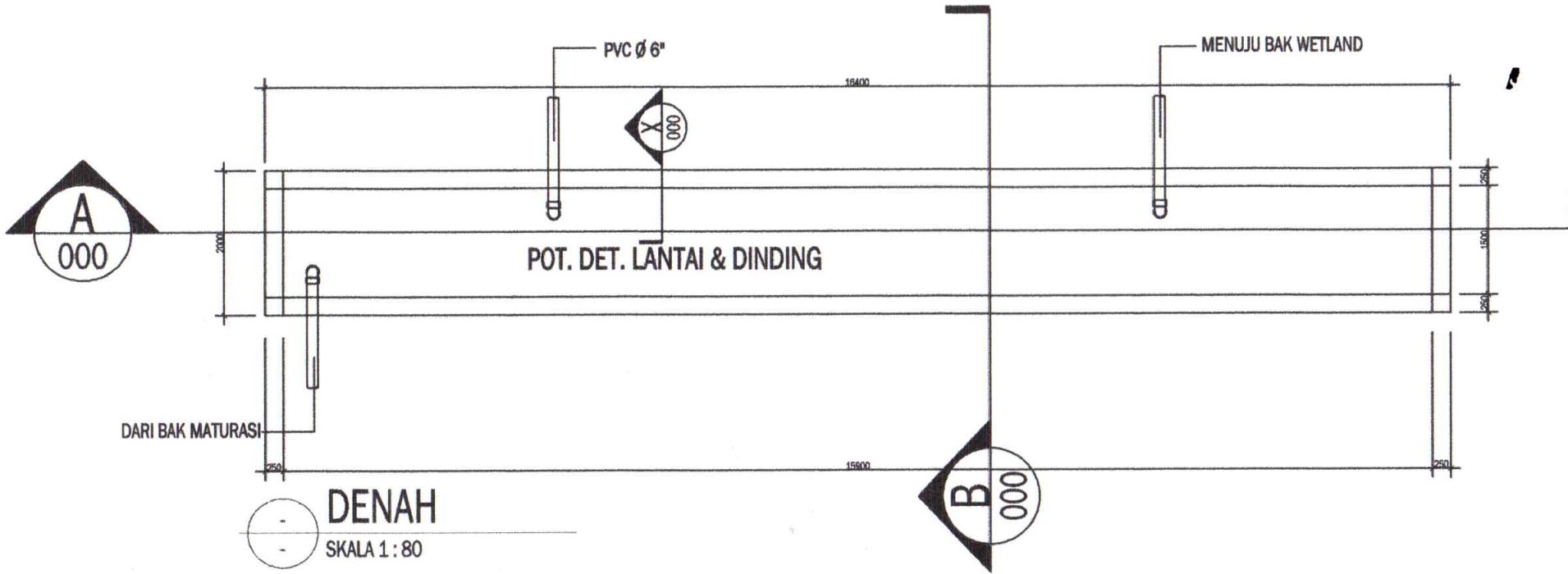
BAK MATURASI

POTONGAN B-B

SKALA 1:60



SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR



BAK PEMBAGI ALIRAN (MATERASI-WETLAND)

PANJANG	16,40
LEBAR	2,00
TINGGI BASAH	0,75
TINGGI FREE BOARD	0,5

KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRASARANA PERMUKIMAN VILAYAH GORONTALO
X. Prof Dr. Hadi Salim Heruza, MEng. MSc. (NIP. 1948-02-26)

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwato

PPK PERENCANAAN
BP2W GORONTALO

WIRDA, H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD
MARTEN Y. LELENGBOTO, S.P., MT.

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
Engineering consulting service
Dr. Ir. Syamsudin Abdulah, M.S.I.

DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA ST.MIL

JUDUL GAMBAR

BAK PEMBAGI

SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwato

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD

MARTEN Y. LELENGBOTO, ST, MT

JOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ERCHI CIVIL konsultan
New engineering consulting solution
201 - 2020 JEWAH PERAP - ENVIRONMENT SERVICES

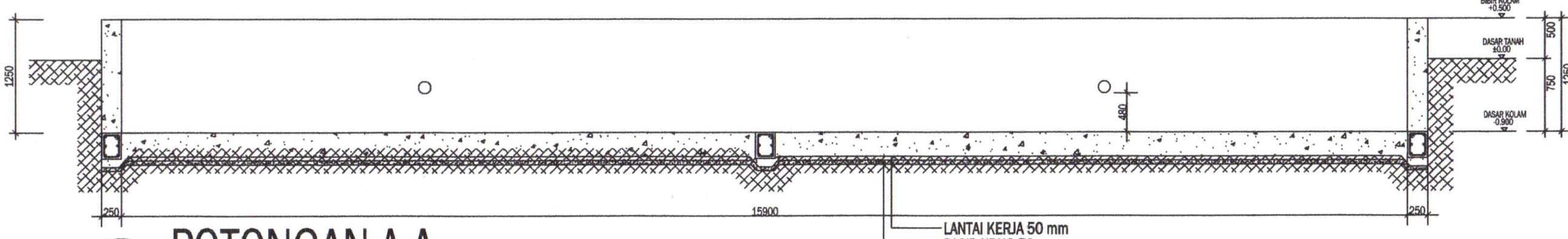
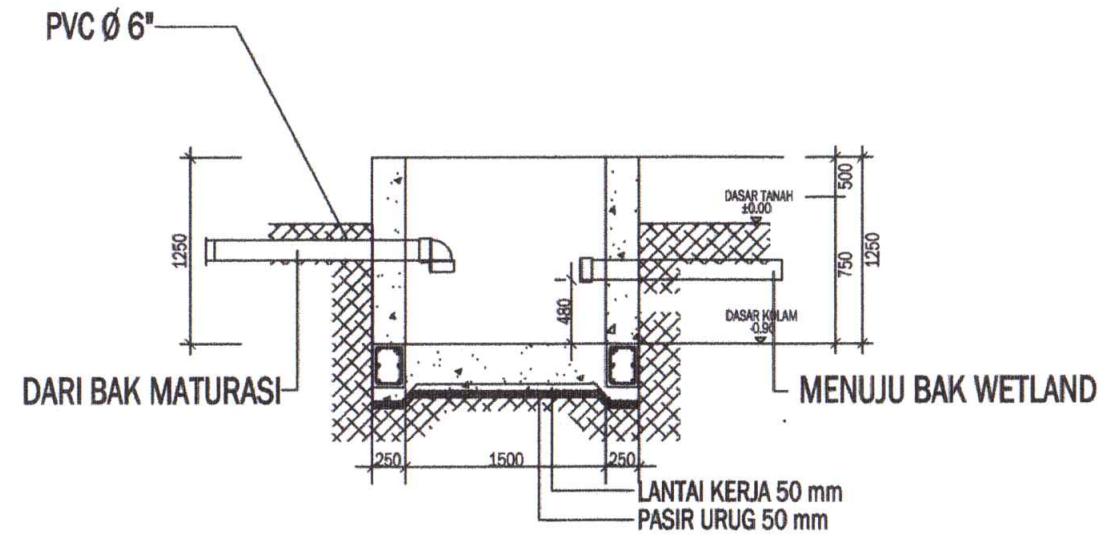
DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA ST.MIL

JUDUL GAMBAR

BAK PEMBAGI

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR

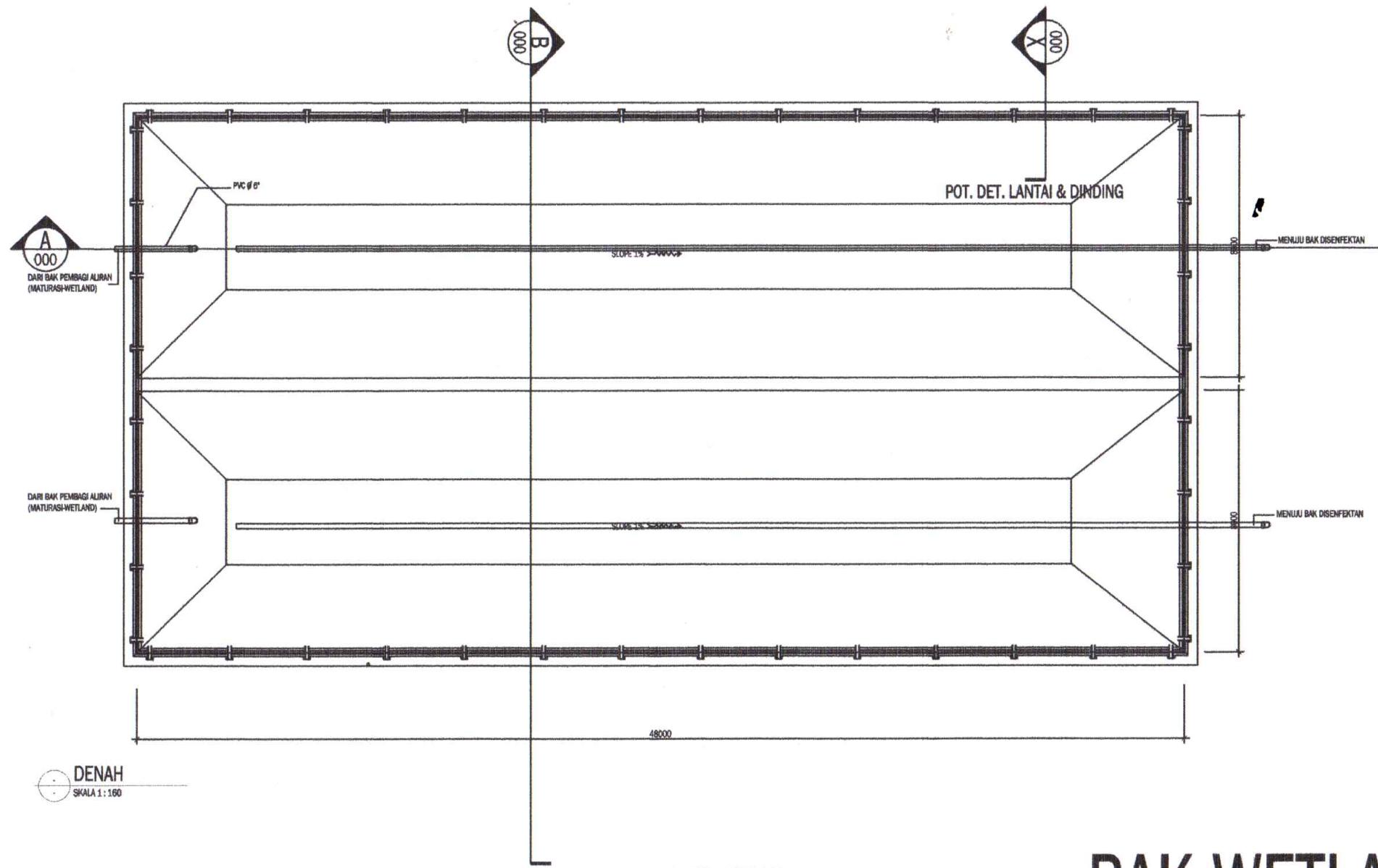


POTONGAN B-B

SKALA 1:60

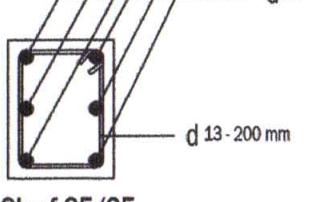
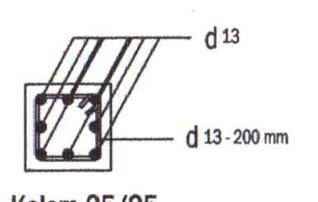
POTONGAN A-A

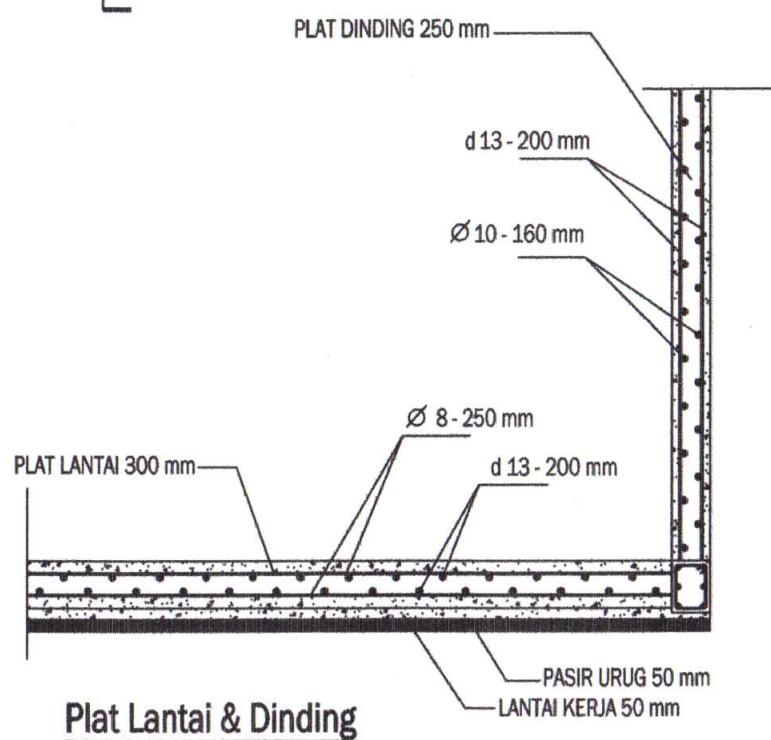
SKALA 1:60



BAK WETLAND

PANJANG	48,00
LEBAR	8,00
TINGGI BASAH	0,75
TINGGI FREE BOARD	0,5

	d 13
	d 13 - 200 mm
Sloof 25/35	d 13 - 200 mm
Plat Lantai & Dinding	
- Tebal dinding	: 250 mm
- Tebal pelat dasar	: 300 mm
- Dinding sisi panjang	
Tulangan utama (v)	: d 13 - 200
Tulangan pembagi (h)	: Ø 10 - 160
- Dinding sisi pendek	
Tulangan utama tnp. (h)	: d 13 - 125
Tulangan utama lap. (h)	: Ø 10 - 110
Tulangan pembagi (v)	: Ø 8 - 250
- Pelat dasar	
Tulangan utama (h)	: d 13 - 200
Tulangan pembagi (h)	: Ø 8 - 250



Plat Lantai & Dinding

KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CPTA KARYA
BALAI PRASARANA PERMUKIMAN WILAYAH GORONTALO
Jl. Prof Dr. Noer Sabir No 10/10, Wengkulu Selatan Telp: 043-42389

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwato

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD
MARTEN Y. LELENGBOTQ, ST, MT

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
Area for engineering consulting solution
CIV - DESIGN - 3DMM - MAPPING - ENVIRONMENT - SUPPLY

DIREKTUR UTAMA

Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESIMANA ST.MIL

JUDUL GAMBAR

BAK WETLAND

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwato

PPK PERENCANAAN
BP2W GORONTALO

WIRDA, H. ABAS, ST
NIP: 19790119 200802 2 001

Menyetujui

TIM TEKNIS TTD

MARTEN Y. LELENGBOTO, ST, MT

JOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
Asia's engineering consulting solution
TEL: 021-2948-8478 / 021-2948-8479

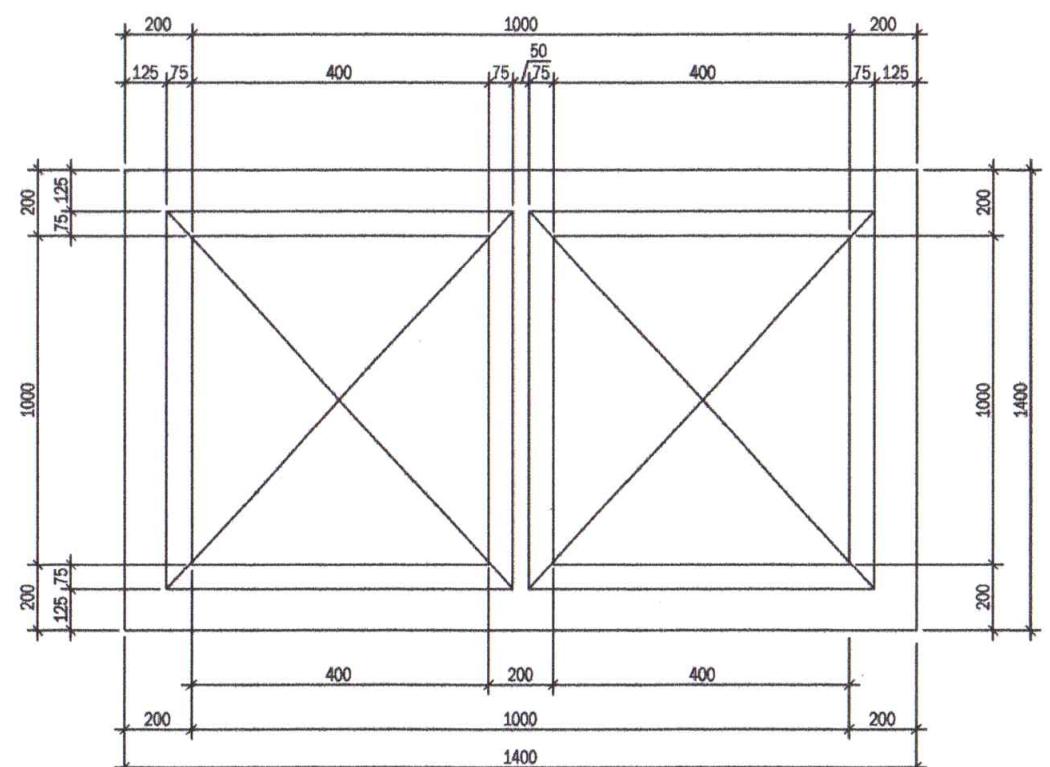
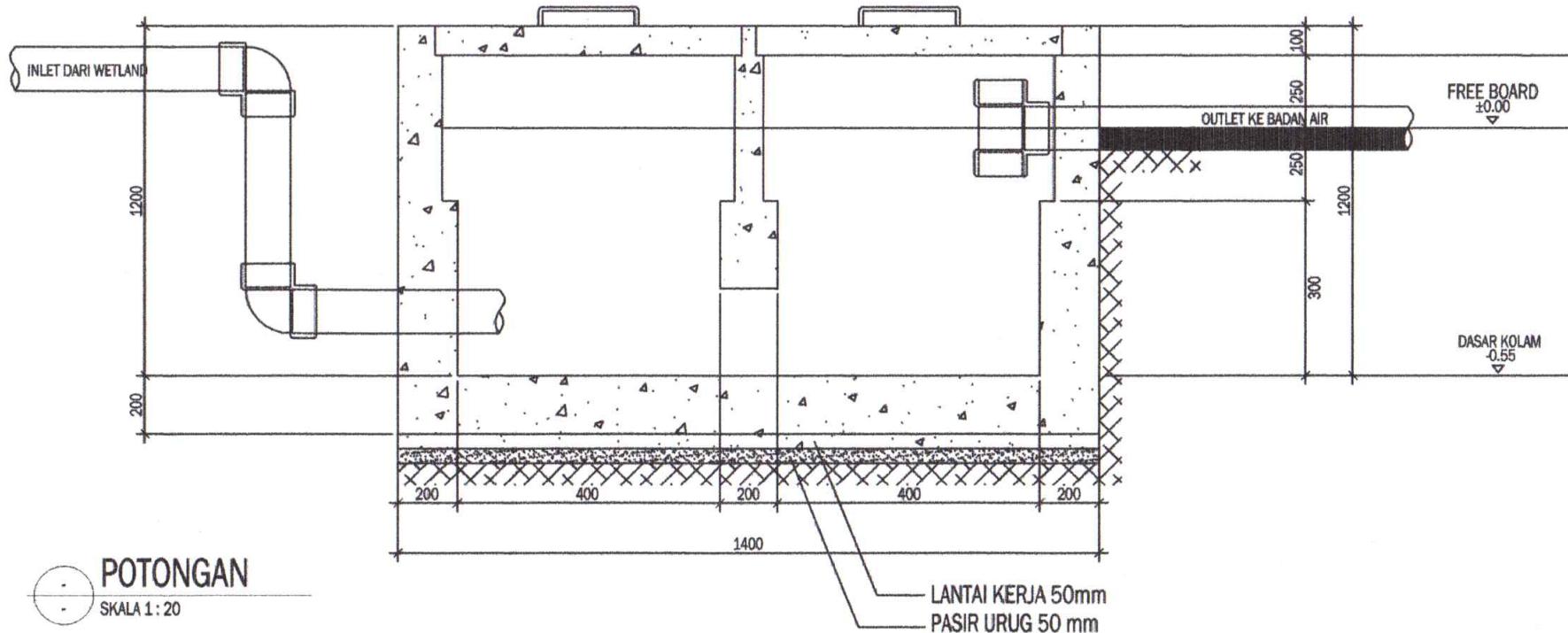
DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA ST.MIL

JUDUL GAMBAR

BAK WETLAND

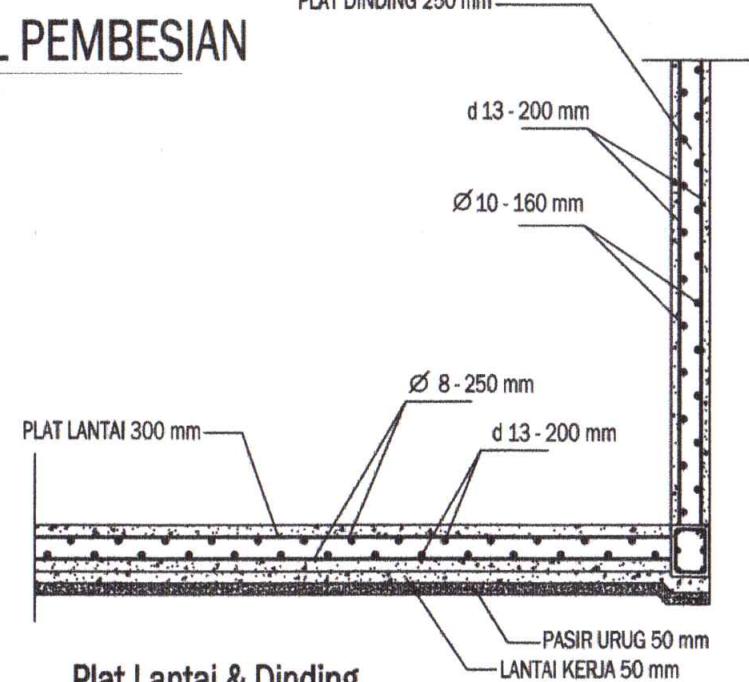
SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR



Sloof 25/35	Kolom 25/25
Plat Lantai & Dinding	
- Tebal dinding	: 250 mm
- Tebal pelat dasar	: 300 mm
- Dinding sisi panjang	
Tulangan utama (v)	: d 13 - 200
Tulangan pembagi (h)	: Ø 10 - 160
- Dinding sisi pendek	
Tulangan utama tlp. (h)	: d 13 - 125
Tulangan utama lap. (h)	: Ø 10 - 110
Tulangan pembagi (v)	: Ø 8 - 250
- Pelat dasar	
Tulangan utama (h)	: d 13 - 200
Tulangan pembagi (h)	: Ø 8 - 250

DETAIL PEMBESIAN

SKALA 1:20



Plat Lantai & Dinding

BAK DESINFEKSI

PANJANG	1,00
LEBAR	0,4
TINGGI BASAH	0,3
TINGGI FREE BOARD	0,25

KEMENTERIAN PUPR
DIREKTORAT JENDERAL CPTA KARYA
BALAI PASHARANA PEMUKIMAN WILAYAH GORONTALO
Jl. Prof Dr. Arief Budiman No 32/A, Wanggameti-Kota Gorontalo 961-9233

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS	TID
MARTEN Y. LELENGBOTO, ST, MT	

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan Place for engineering consulting solution CIV - DESIGN - DRAWING - ENVIRONMENT - SUPERVIS	
---	--

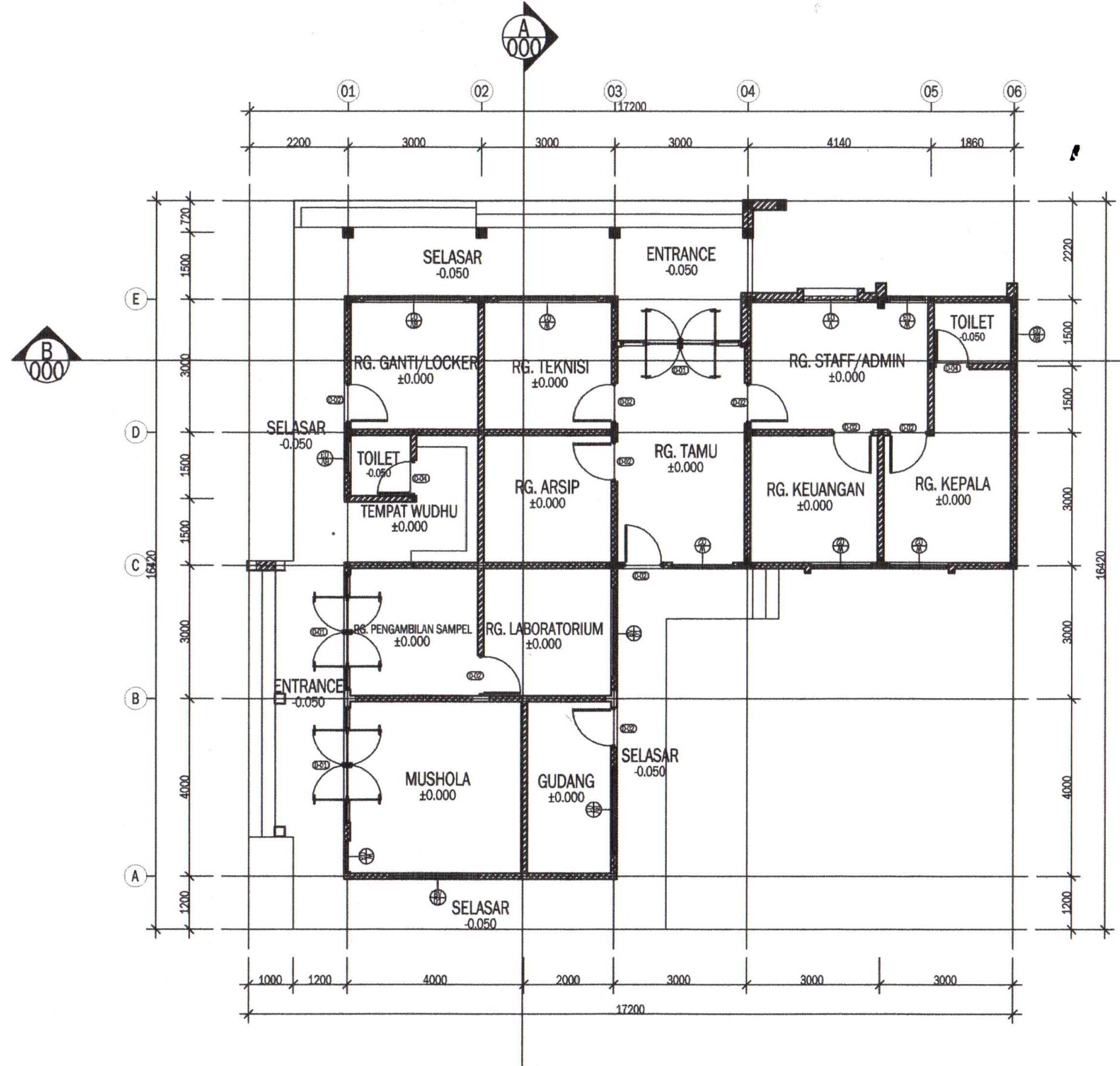
DIREKTUR UTAMA Ir. SYAMSUDIN ABDULAH	
---	--

TEAM LEADER ANDRI LESMANA ST.MIL	
-------------------------------------	--

JUDUL GAMBAR

BAK DESINFEKSI

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR



DENAH GEDUNG KANTOR PENGELOLA DAN LABORATORIUM

SKALA 1:75

KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CITA KARYA
BALAI PRASARANA PEMERINTAHAN WILAYAH GORONTALO
Jl. Prof Dr. Kartolo No 81/BLK. Wengkuk Kec. Gorontalo Telp. (043-62202)

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD
MARTEN Y. LELENGBOTO, ST, MT

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PP. ORCHI CIVIL konsultan
Your engineering consulting solution
Div. SISTEM UDARA INDUSTRI - KONSELING SUPERVISI

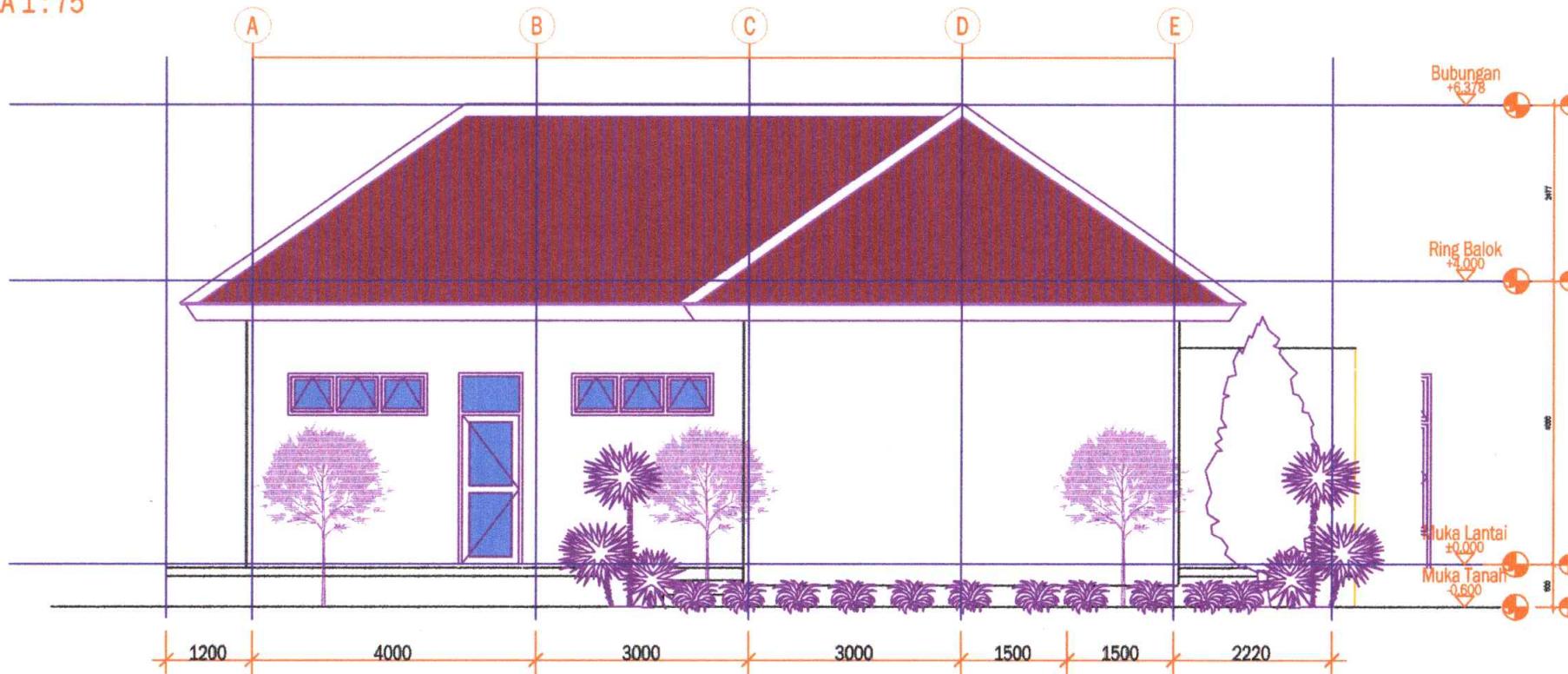
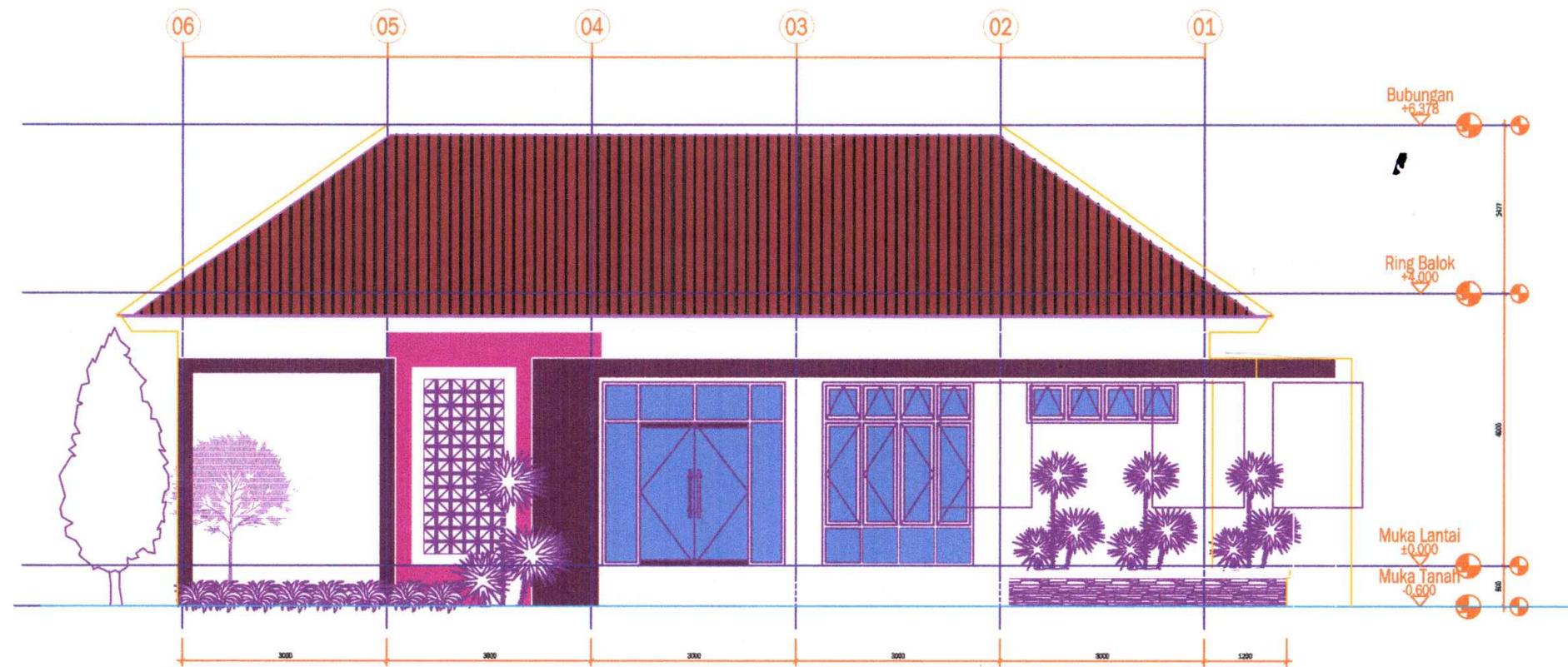
DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA ST.MIL

JUDUL GAMBAR

DENAH

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR



KEMENTERIAN PERUMAHAN DAN PERKEMBANGAN RAKYAT
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRASARANA PERKEMBANGAN WILAYAH GORONTALO
Jl. Prof Dr. Moerdjoko No. 10, Jl. Wongorengoreng, Telp/Fax (041-2222)

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD
MARTEN Y. LELENGBOTO, ST, MT

YOSEPH SETRIAWAN, ST

MUAZMAN HAMIZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
Engineering consulting services
DESIGN - DRAWING - CONTRACTING - BIDDING

DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA ST.MIL

JUDUL GAMBAR

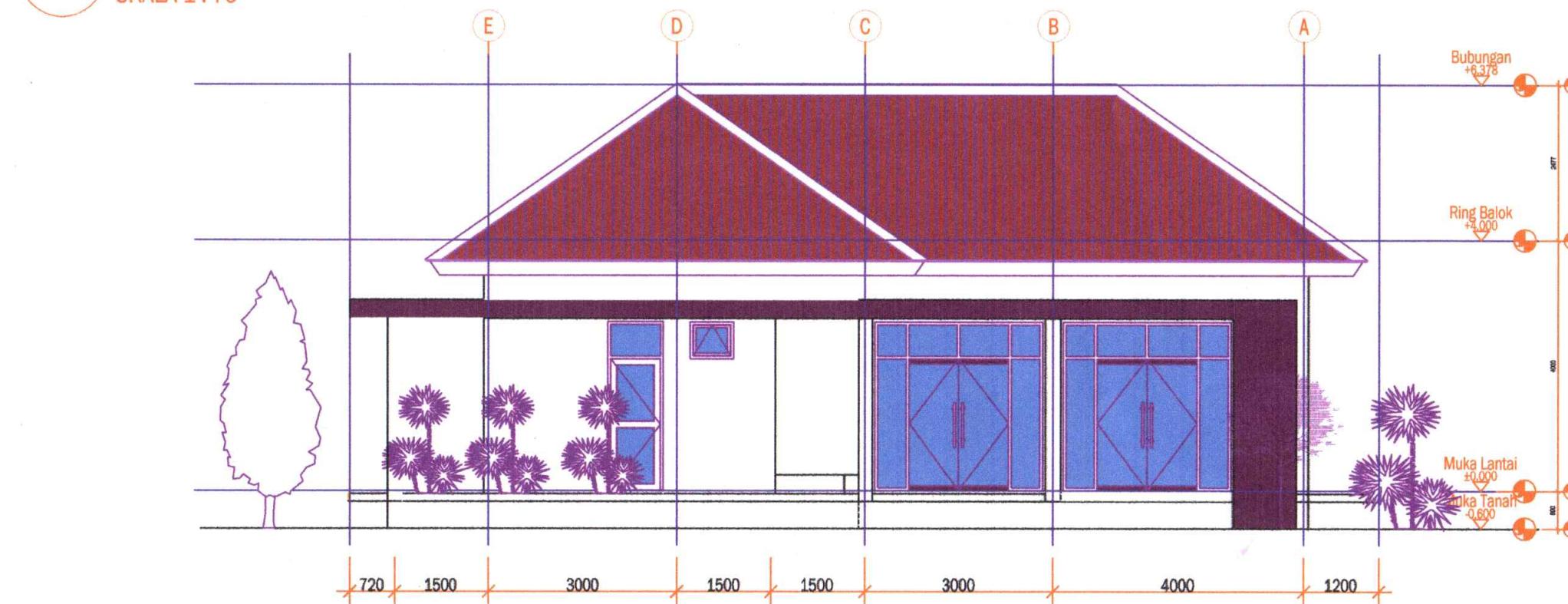
TAMPAK

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR



TAMPAK - C

SKALA 1:75



TAMPAK - D

SKALA 1:75

KEMENTERIAN PUPR
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRASARANA PERKEMBANGAN WILAYAH GORONTALO
Jl. Prof Dr. Abdi Salur No.15, Kel. Wongkalele Talo Sumbawa 70918 Nusa Tenggara Barat

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS

MARTENI Y. LELENGBOTO, SE, MT

[Signature]

JOSEPH SETRIAWAN, ST

MUAZZMAN HAMZAH, ST

[Signature]

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

[Signature]

KONSULTAN

PT. ORCHI CIVIL Konsultan
Engineering consulting services
DESIGN - DRAWING - DOCUMENT - SERVICES

DIREKTUR UTAMA

Ir. SYAMSUDIN ABDULAH

[Signature]

TEAM LEADER

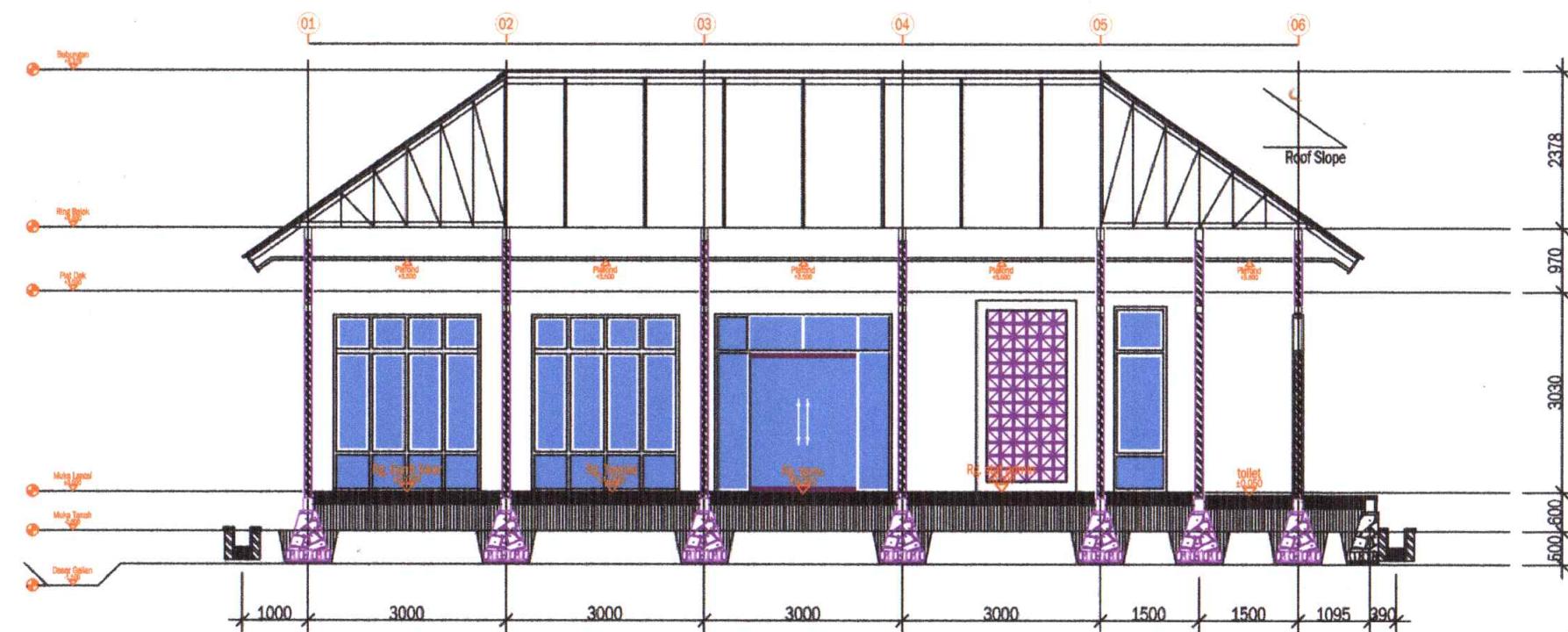
ANDRI LESMANA ST.MIL

[Signature]

JUDUL GAMBAR

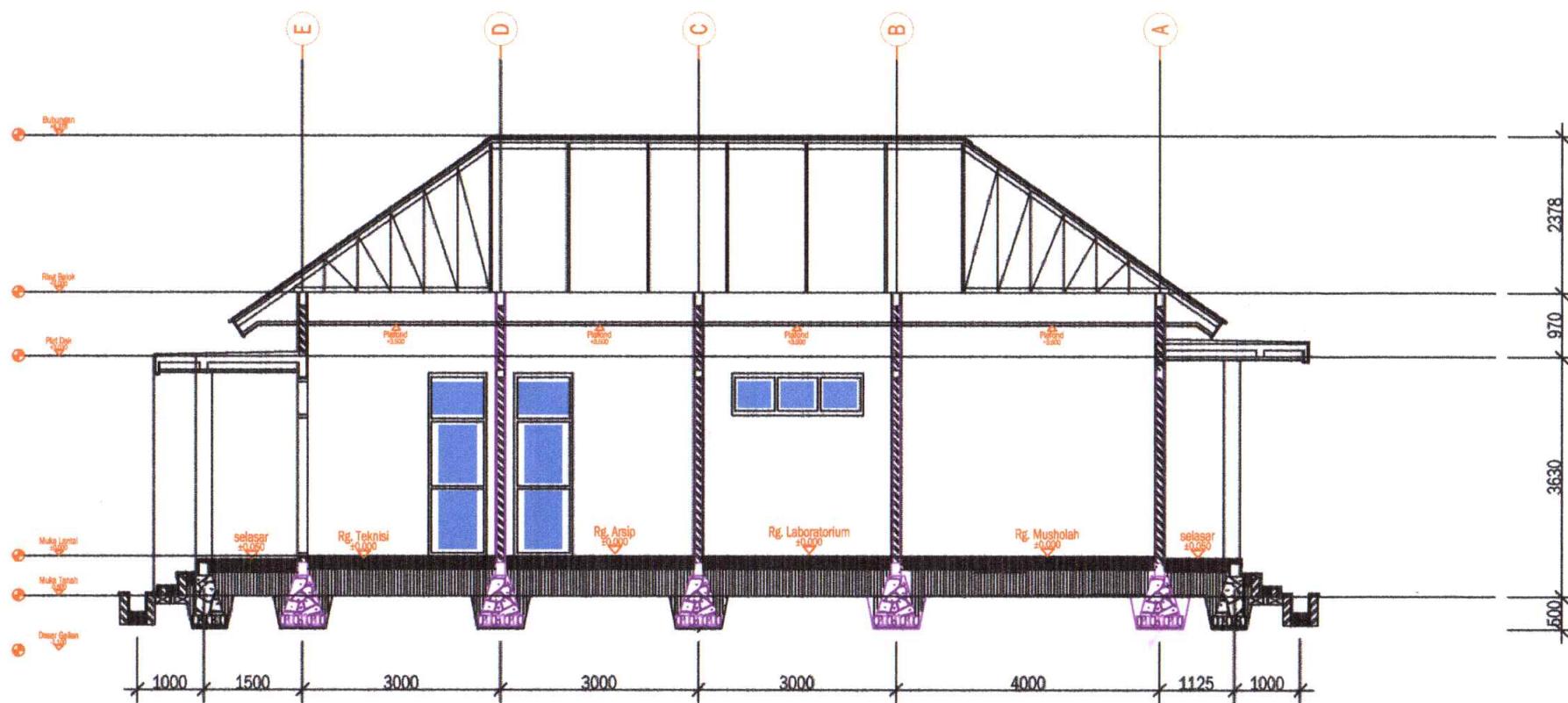
TAMPAK

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR



POTONGAN B

SKALA 1:75



POTONGAN A

SKALA 1:75

KEMENTERIAN PENGURUAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL Cipta Karya
BALAI PRASARANA PERLAKUAN WILAYAH GORONTALO
Jl. Prof Dr. Arief Salim No. 02, Kec. Wiggundu Kota Gorontalo Tel. Per. 0436-42520

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwato

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP. 19790119 200802 2 001

MENYETUJI	
TIM TEKNIS	ITD
MARTEN Y. LELENGBOTO, ST, MT	
YOSEPH SETRIAWAN, ST	
MUAZMAN HAMZAH, ST	
MOHAMMAD ARDIYA RAMADHAN, ST	
MONIKA STEVI CAROLIN, ST	

KONSULTAN

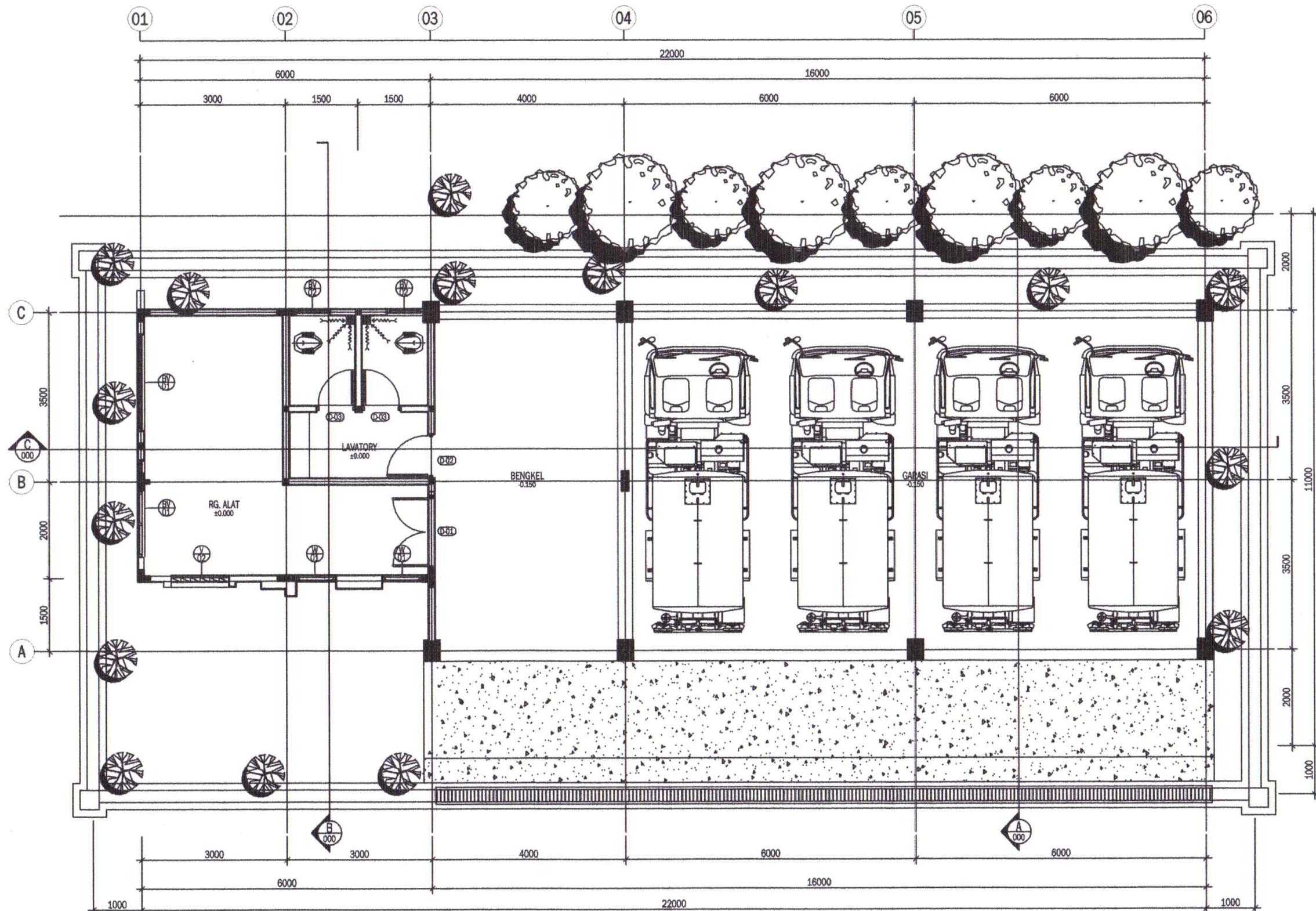
PT. ERCHI CIVIL Konsultan
Engineering Consulting Services
CPL - SSOHN - 2014 - BP2W - GORONTALO - INDONESIA

DIREKTUR UTAMA	Ir. SYAMSUDIN ABDULAH
TEAM LEADER	ANDRI LESMANA ST.MIL

JUDUL GAMBAR

POTONGAN

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR



DENAH GARASI TRUCK TINJA & BENGKEL

SKALA 1:75

KEMENTERIAN PUPERI
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRASARANA PERMUKIMAN WILAYAH GORONTALO
Jl. Prof Dr. Abd Salam No.42,Jl. Wayagkrikor Gorontalo Telp(043-42536)

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD
MARTEN Y. LELENGBOTO, ST, MT

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
R&E engineering consulting solution
CIV - DESIGN - URBAN - INFRASTRUCTURE - ENVIRONMENT - SERVICES

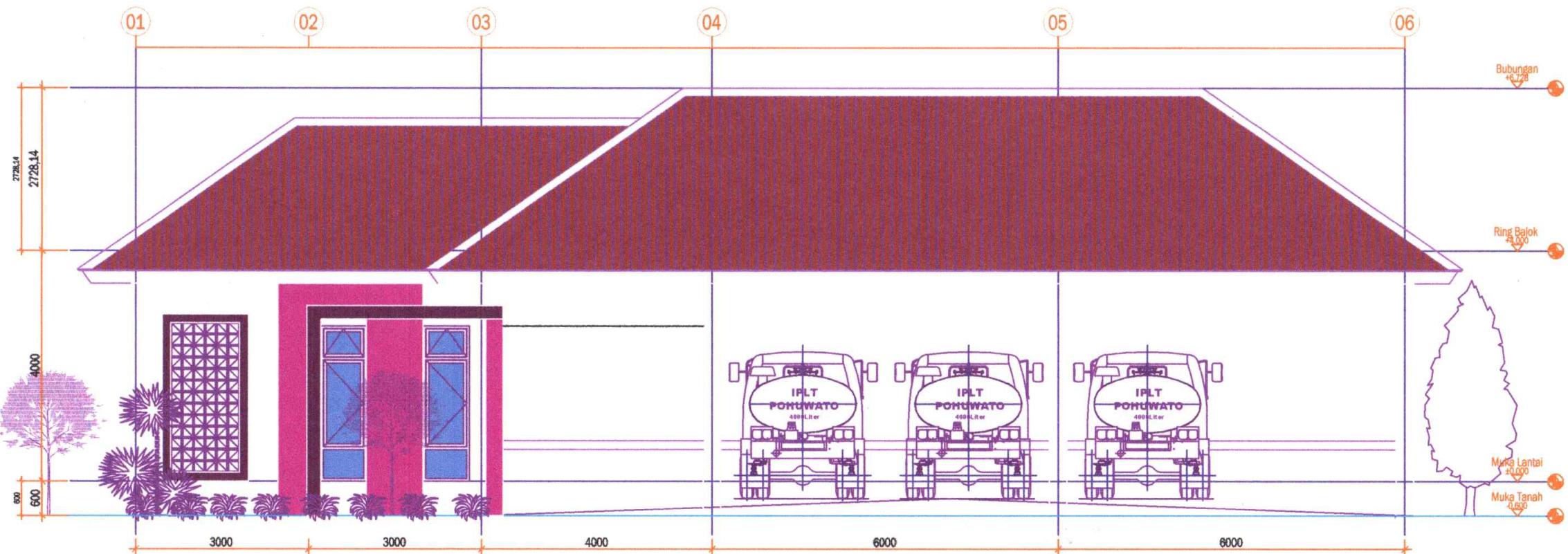
DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA ST.MIL

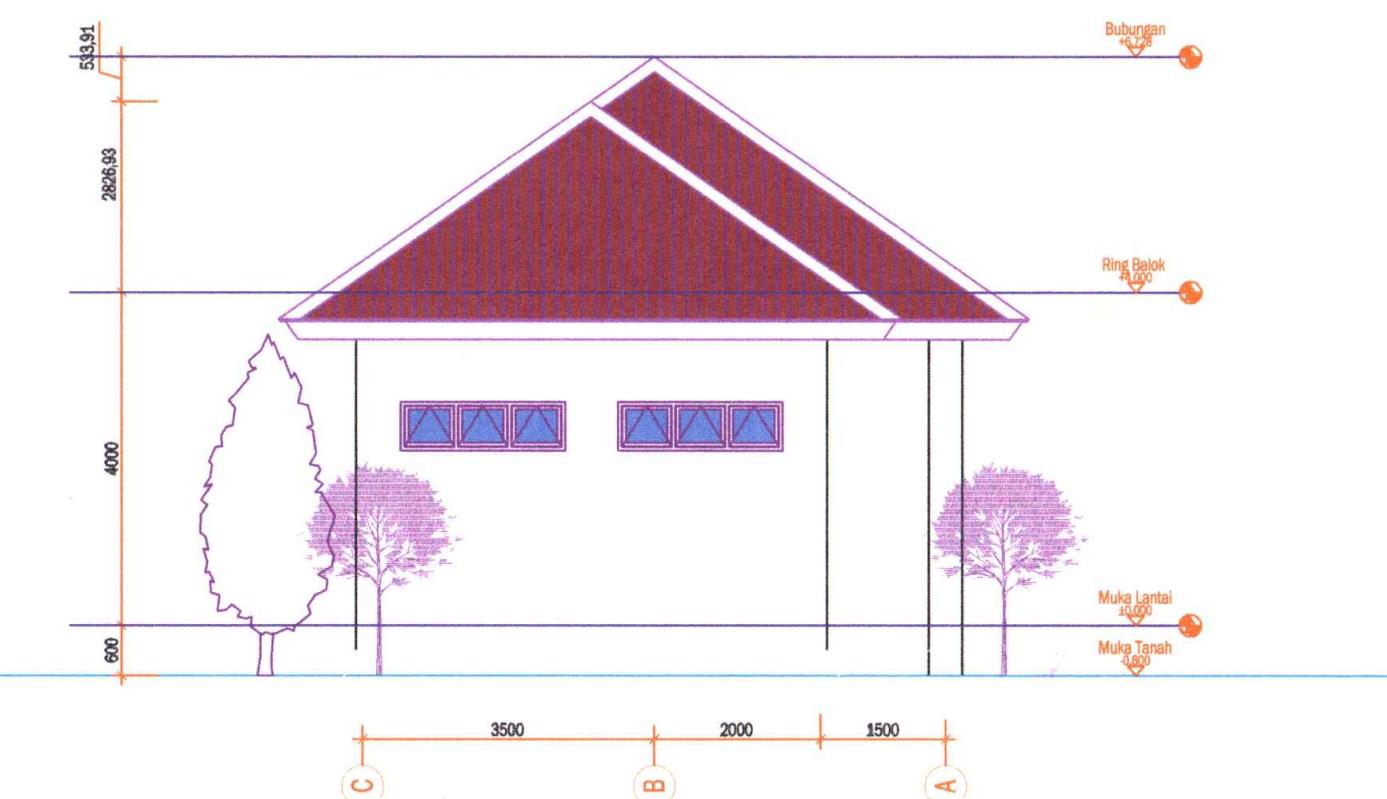
JUDUL GAMBAR

DENAH

SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR



TAMPAK - A
SKALA 1:75



TAMPAK - B
SKALA 1:75

KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CIPTA KARVA
BALI PRASARANA PEMERINTAHAN WILAYAH GORONTALO
Dr. Prof Dr. Heri Nasar No. 10,Jl. Wiliyeh II Kel Gorontalo Telp/Fax 043-83280

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD
MARTEN Y. LELENGBOTO, ST, MT

YOSEPH SETRIAWAN, ST

MUAZZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMDHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. CRCHI CIVIL konsultan
Place for engineering consulting solution
CIV. DESIGN URBAN - BUILDING - ENVIRONMENT - SUPERVIS

DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

Zeynudin

TEAM LEADER
ANDRI LESMANA ST.MIL

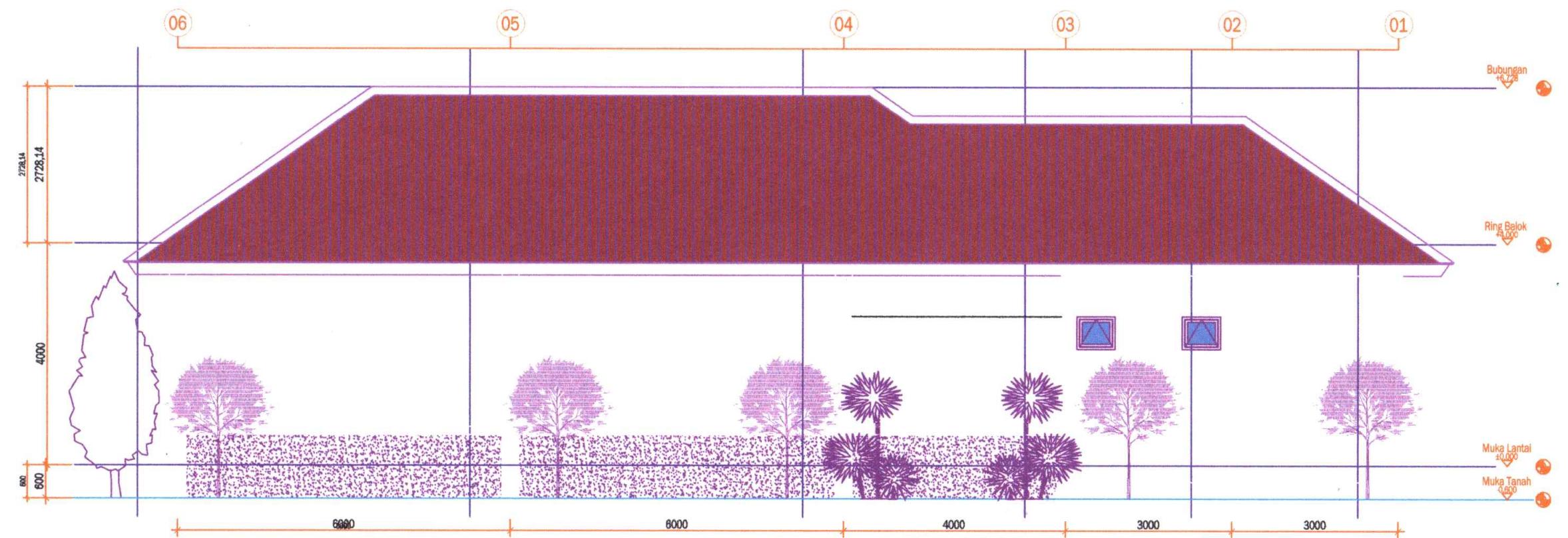
A

JUDUL GAMBAR

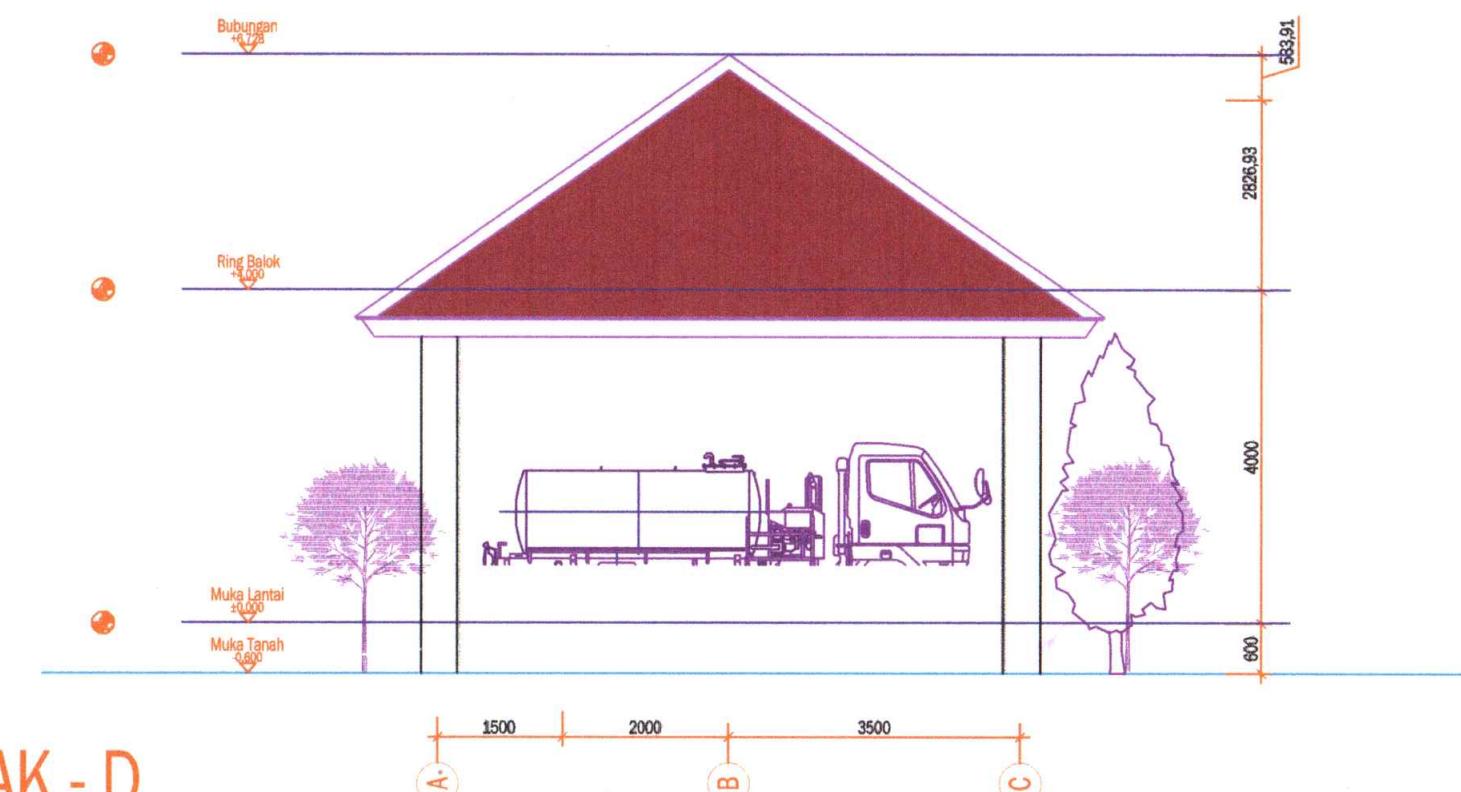
TAMPAK

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR

--	--	--	--



TAMPAK - C
SKALA 1:75



TAMPAK - D
SKALA 1:75

KEMENTERIAN PEMERINTAHAN RUMAH DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRAKARSANA PENGETAHUAN WILAYAH GORONTALO
Jl. Prof Dr. Andi Sabri No.124, Wangga Pura Gorontalo Telp/Fax 0431-43236

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD
MARTEN Y. LELENGBOTO, ST, MT

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
Place for engineering consulting solution
CIV. - SESSON - URBAN - IRING - ENVIRONMENT - SUPERVISOR

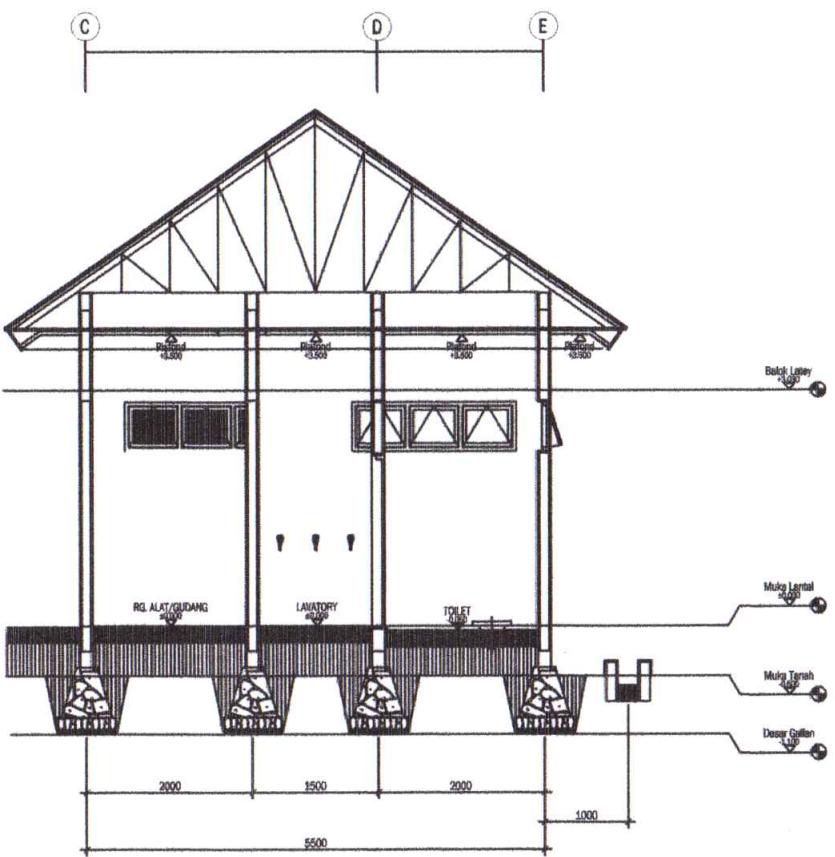
DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA ST.MIL

JUDUL GAMBAR

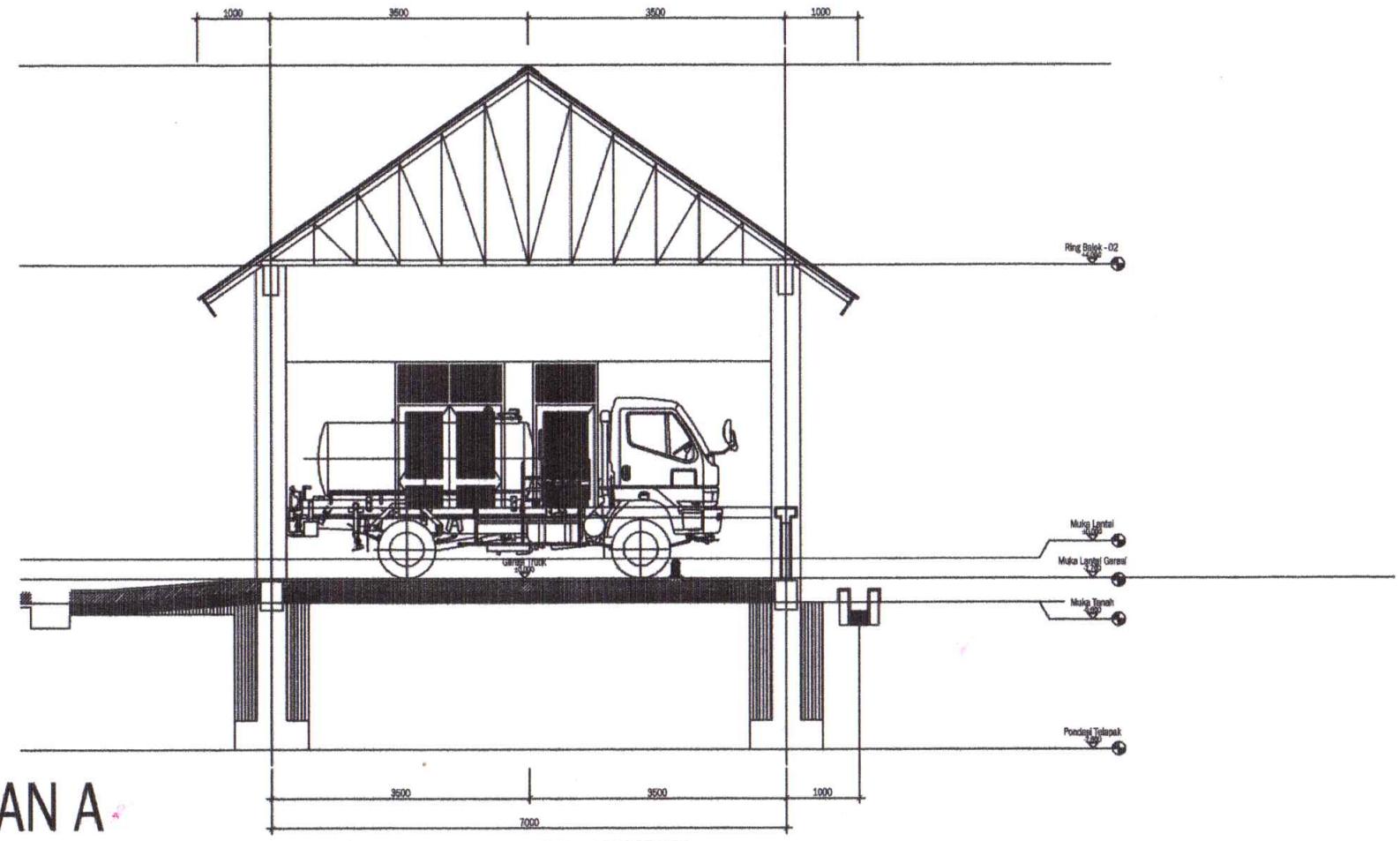
TAMPAK

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR



POTONGAN B

SKALA 1:75



POTONGAN A

SKALA 1:75

KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRASARANA PERUMAHAN WILAYAH GORONTALO
Jl. Prof Dr. Arief Sutan Haji 10 Km. Wayagkutuk Golo Gorontalo Telp/Fax: (043-8320)

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

IPPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD
MARTEN Y. LELENGBOTO, ST, MT *[Signature]*

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST *[Signature]*

MOHAMAD ARDIYA RAMADHAN, ST *[Signature]*

MONIKA STEVI CAROLIN, ST *[Signature]*

KONSULTAN

PT. ORCHI CIVIL konsultan
Engineering consulting services
Jl. 300A Jemur-Wringin - Enviroment Services *[Signature]*

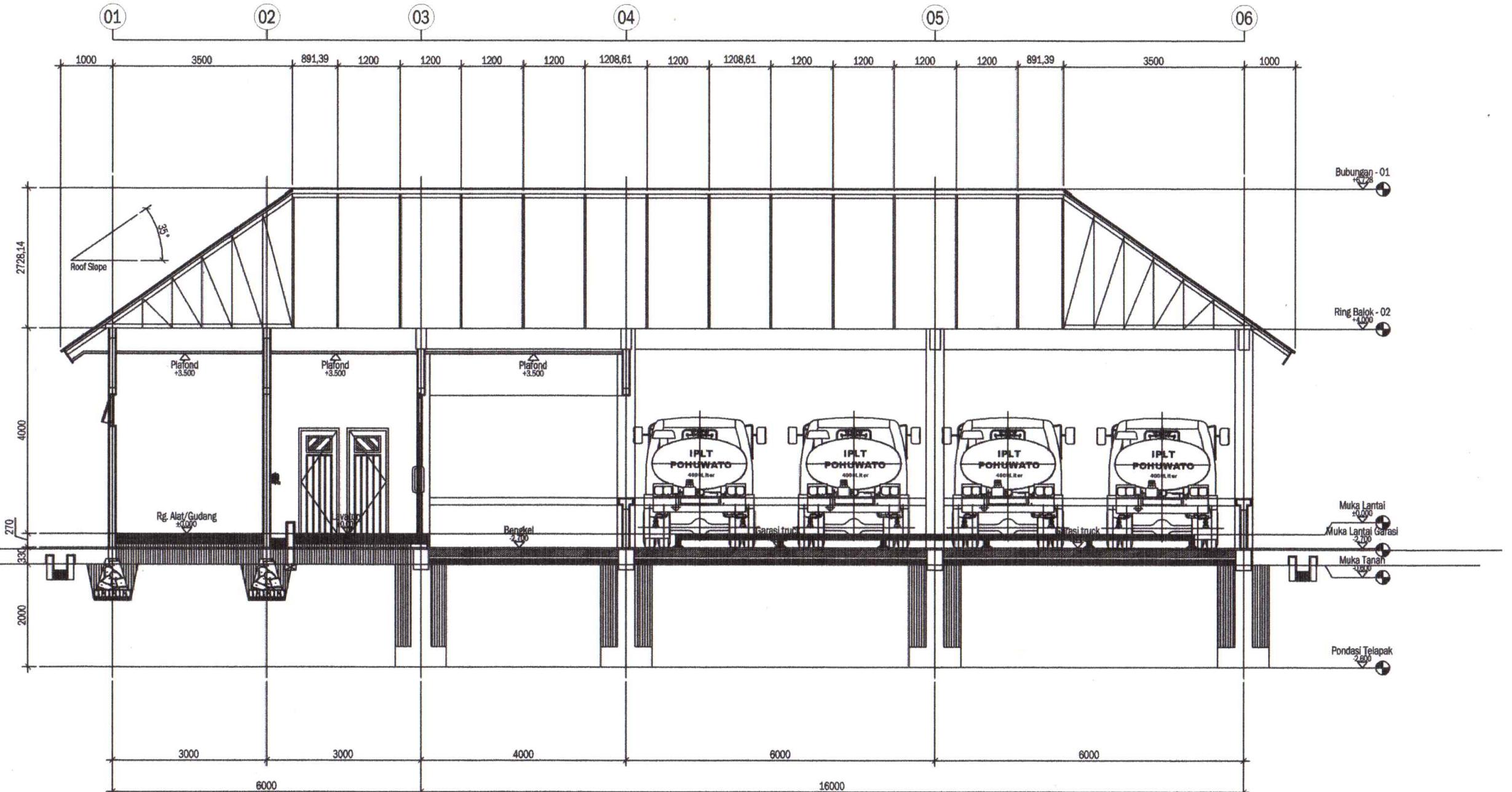
DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH *[Signature]*

TEAM LEADER
ANDRI LESMANA ST.MIL *[Signature]*

JUDUL GAMBAR

POTONGAN

SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR



KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRASARANA PERMUKIMAN WILAYAH GORONTALO
Dr. Prof Dr. Arief Sulisno Heru ST, MM, MEnggk, MM (Telp/Fax: 0432-63120)

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA, H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD

MARTEN Y. LELENGBOTO, ST, MM

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
Place for engineering consulting solution
DESIGN URBAN - BUILDING - ENVIRONMENT - SURVEYS

DIREKTUR UTAMA

Ir. SYAMSUDIN ABDULAH

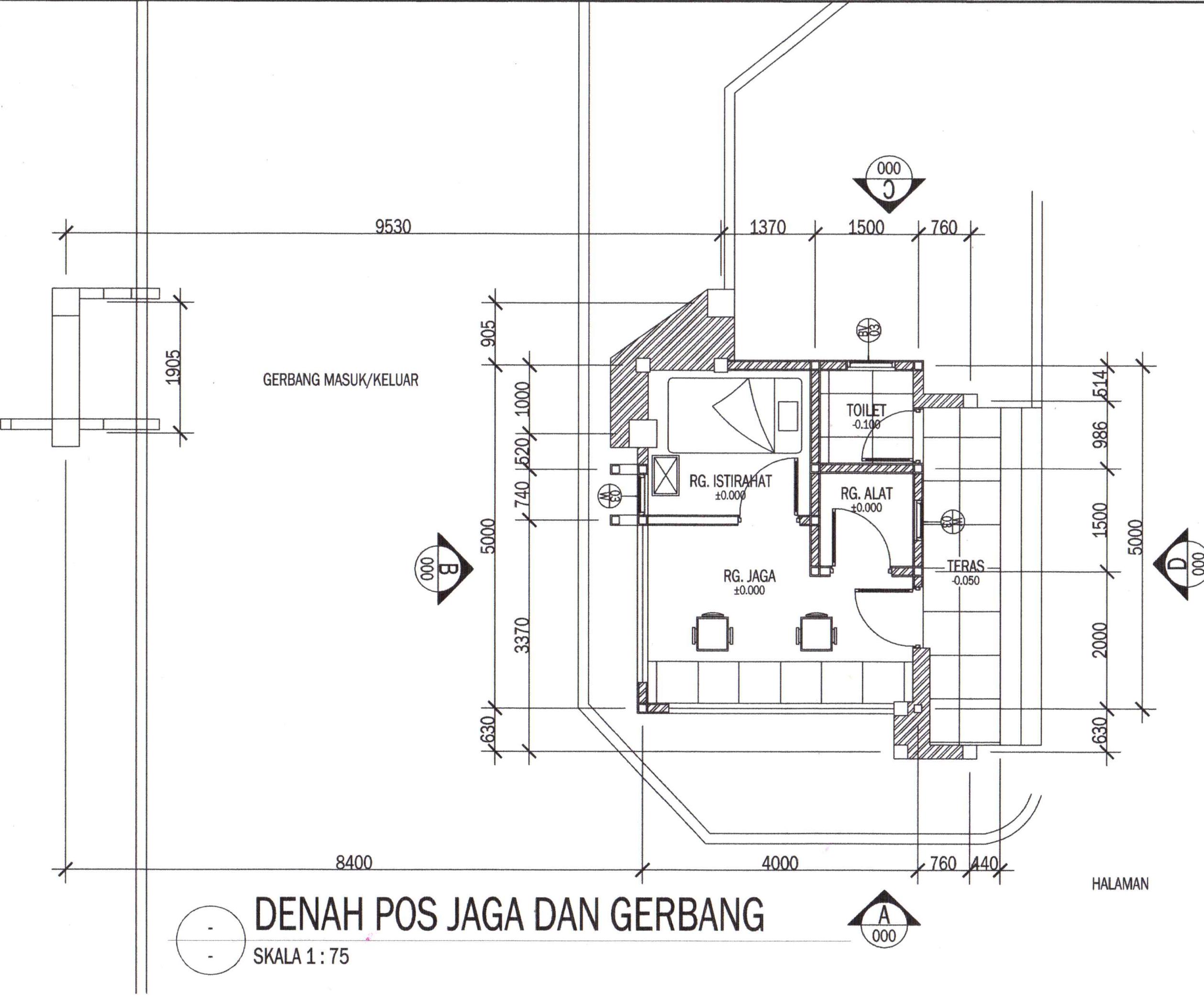
TEAM LEADER

ANDRI LESMANA ST.MIL

JUDUL GAMBAR

POTONGAN

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR



KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRASARANA PEMERIKSAAN WILAYAH GORONTALO
Jl. Prof Dr. Abd Sabur No.52, KM. 10,52, Jl. Wergulali Bola Bola, Telp/Fax (043-62348)

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD

MARTEN Y. LELEBOTO, ST, MT

JOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
Asia's engineering consulting solution
DA - 3000 JAKARTA INDONESIA SURABAYA

DIREKTUR UTAMA

Ir. SYAMSUDIN ABDULAH

[Signature]

TEAM LEADER

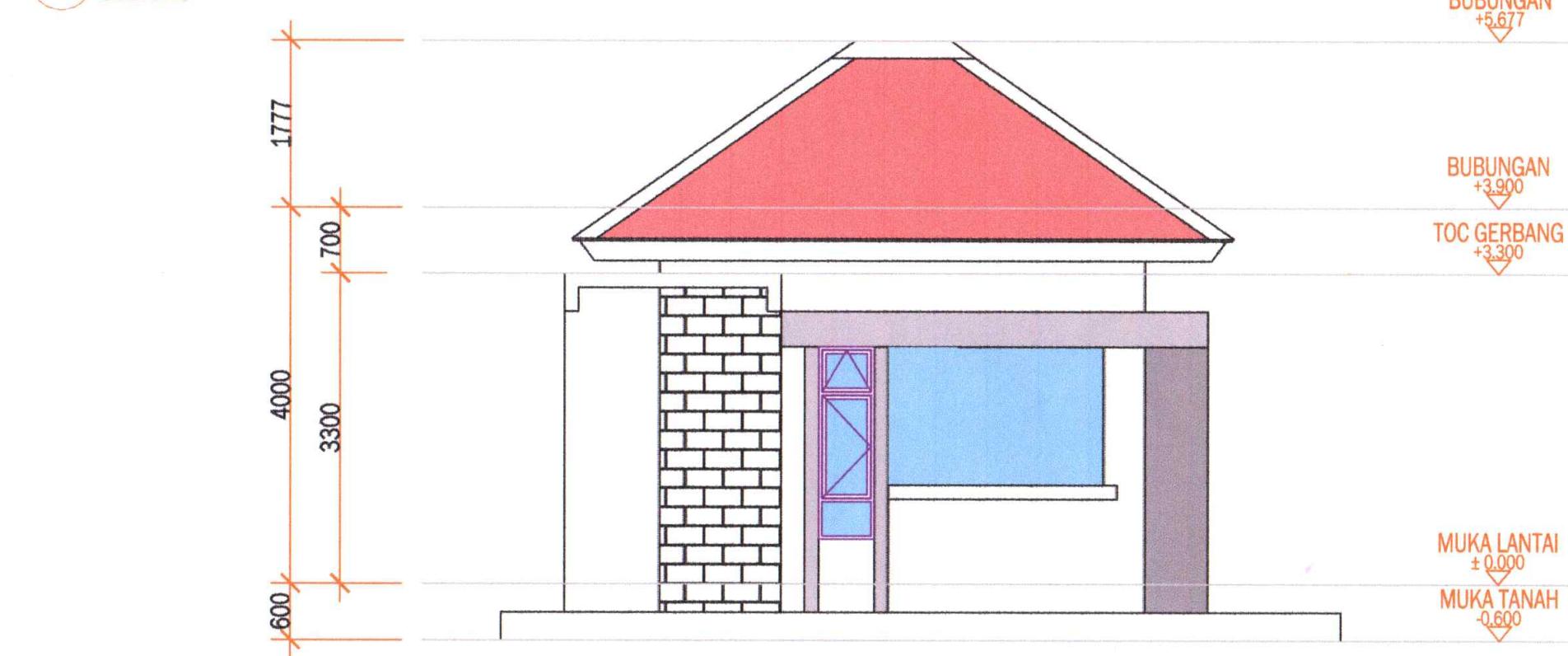
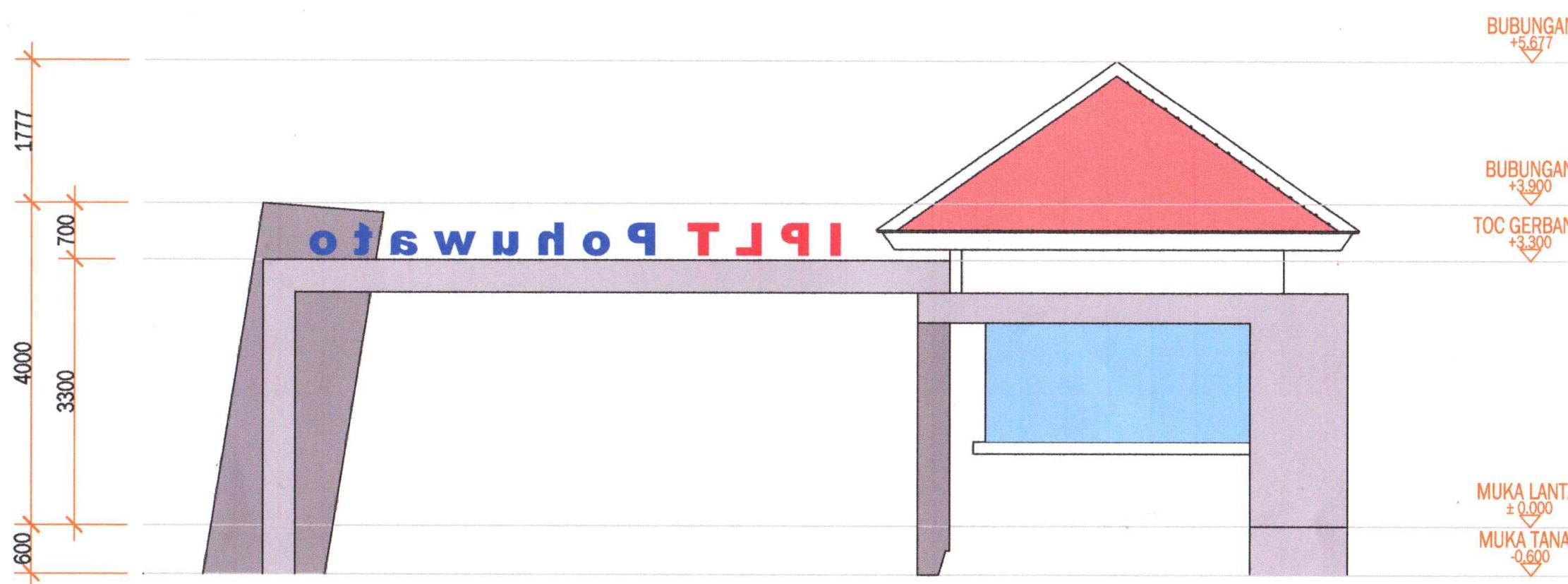
ANDRI LESMANA ST.MIL

A

JUDUL GAMBAR

DENAH

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR



KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRASARANA PEMERINTAHAN WILAYAH GORONTALO
Dr. Prof Dr. Arief Sabtu, MM S.I.Pd. Wewenang Balai Desakota No. 1001-B/2020

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUVATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA, H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS	TTD
MARTEN Y. LELENGBOTO, ST, MT	

YOSEPH SETRIAWAN, ST

MUAZZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
Engineering consulting solution
Tel. 0308 4200 4000-4000 4000

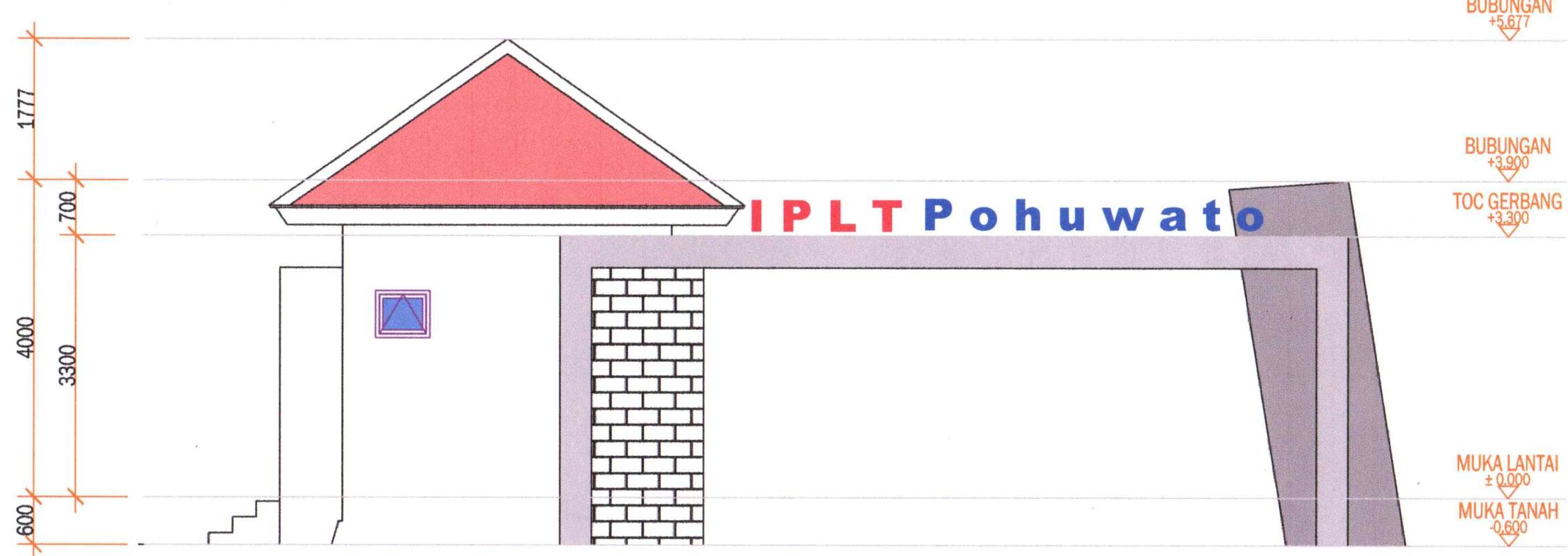
DIREKTUR UTAMA	ir. SYAMSUDIN ABDULAH
----------------	-----------------------

TEAM LEADER	ANDRI LESMANA ST.MIL
-------------	----------------------

JUDUL GAMBAR

TAMPAK

SKALA GAMBAR NODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR



TAMPAK - C
SKALA 1:75



TAMPAK - D
SKALA 1:75

KEMENTERIAN PEKERJAAN UMUM DAN PERBAHARUAN RAKYAT
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRASARANA PEMUKIMAN WILAYAH GORONTALO
Jl. Prof Dr. Noer Sabar No.92A, Wonggabeh Kec. Sengkang Reg. No. 645-8202

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUVATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS	TTD
MARTEN Y. LELENGBOTO, SE, M.T.	

YOSEPH SETRIAWAN, ST

MUAZZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL Konsultan
Your engineering consulting source
Sektor: Jalan - Jembatan - Infrastruktur - Sumber Daya

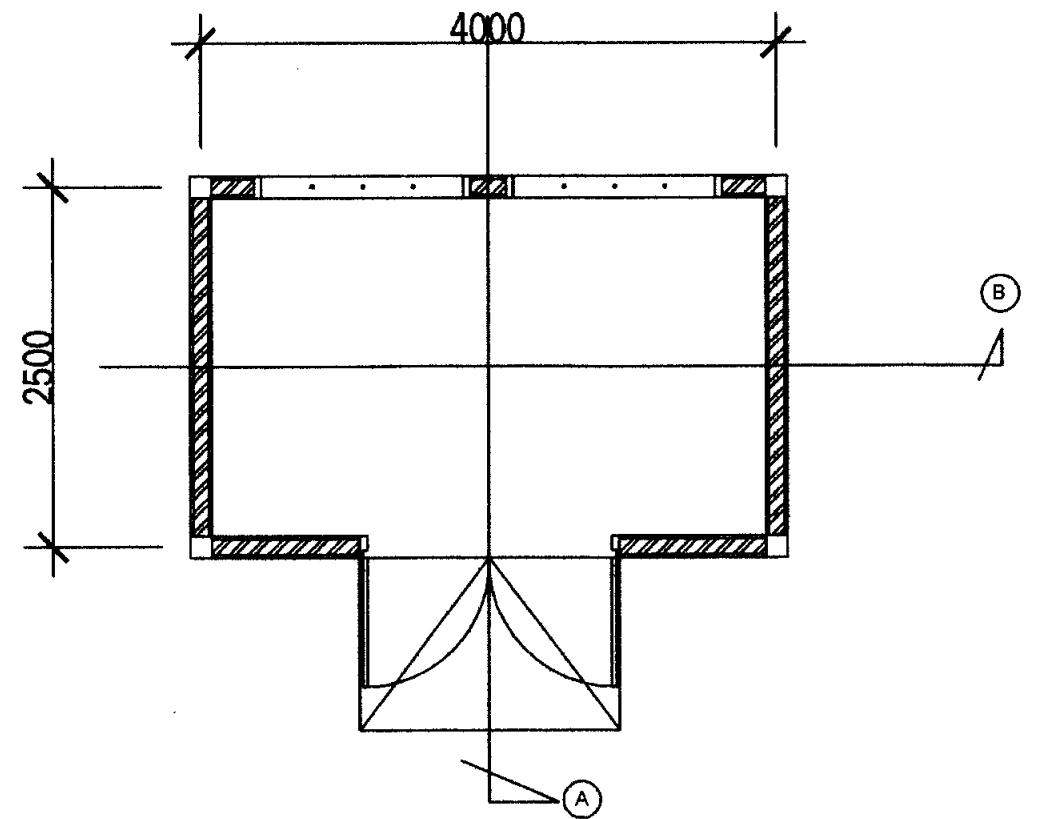
DIREKTUR UTAMA	
Ir. SYAMSUDIN ABDULAH	

TEAM LEADER	
ANDRI LESMANA ST.MIL	

JUDUL GAMBAR

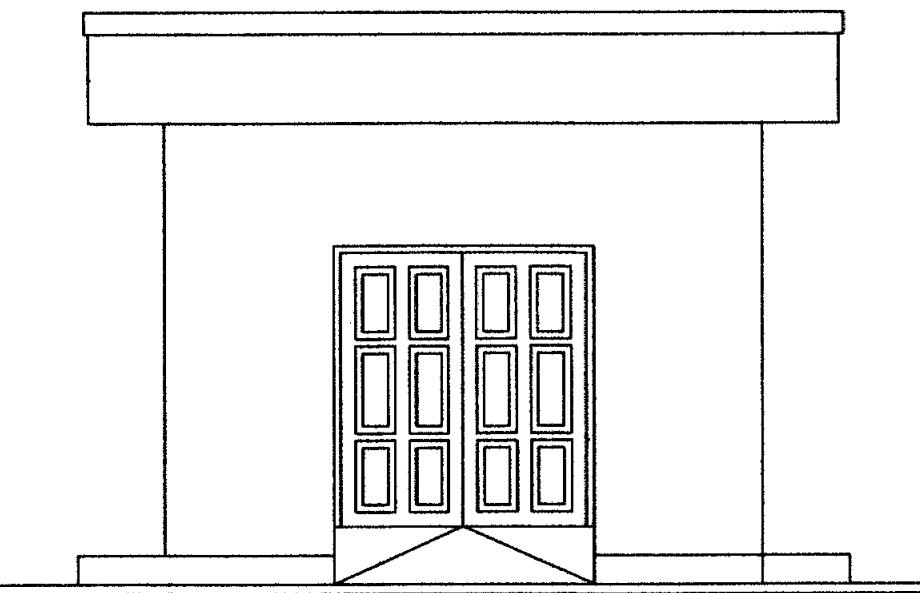
TAMPAK

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR



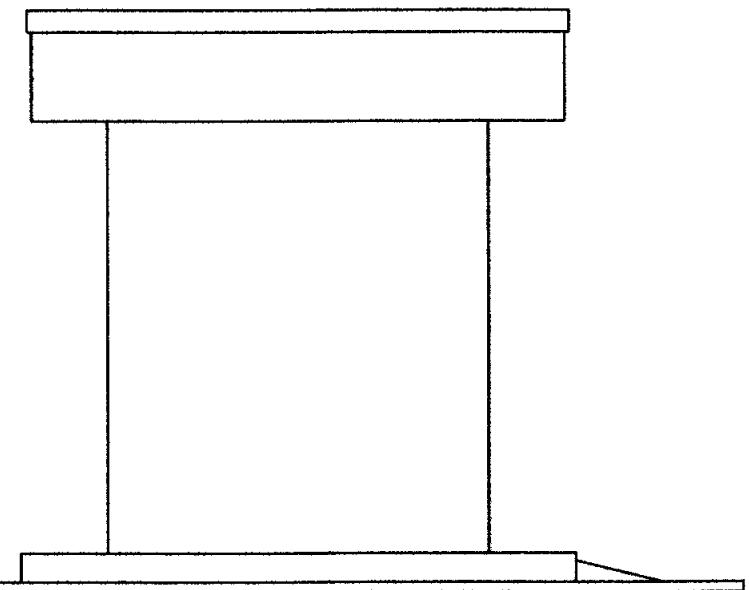
DENAH RUMAH GENSET

SKALA 1:75



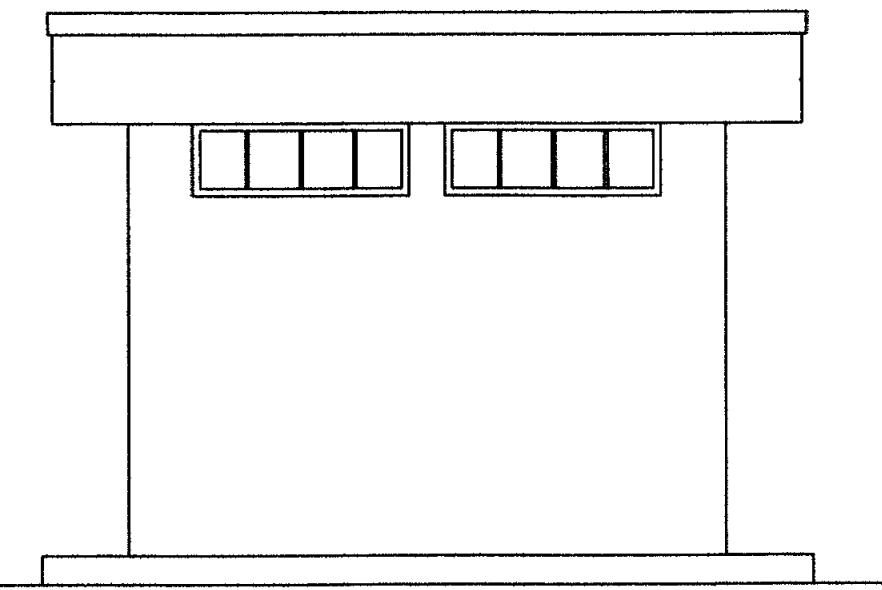
TAMPAK DEPAN

SKALA 1:75



TAMPAK SAMPING KANAN

SKALA 1:75



TAMPAK BELAKANG

SKALA 1:75

KEMENTERIAN PUPERIUM LUMPU DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CPTA KARYA
BALAI PRAKERINA PEMUKIMAN WILAYAH GORONTALO
Jl. Prof Dr. Moestopo No. 51A, Wengi, Kec. Sambutan, Telp. 036-20000

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwato

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD

MARTEN Y. LELENGBOTO, ST, MT

YOSEPH SETRIAWAN, ST

MUJAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEV CAROLIN, ST

KONSULTAN

DIREKTUR UTAMA

Ir. SYAMSUDIN ABDULAH

TEAM LEADER

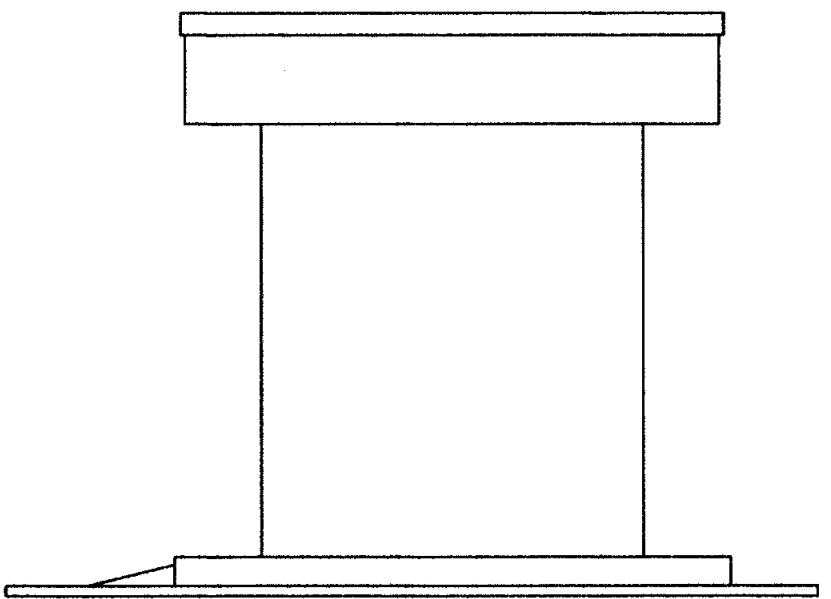
ANDRI LESMANA, ST, MIL

JUDUL GAMBAR

RUMAH GENSET

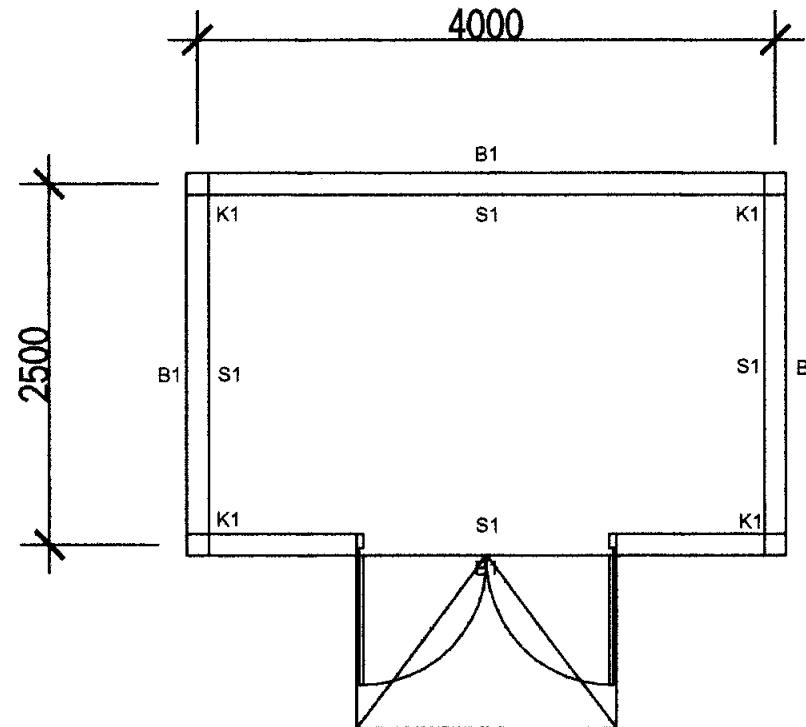
SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR

--	--	--	--



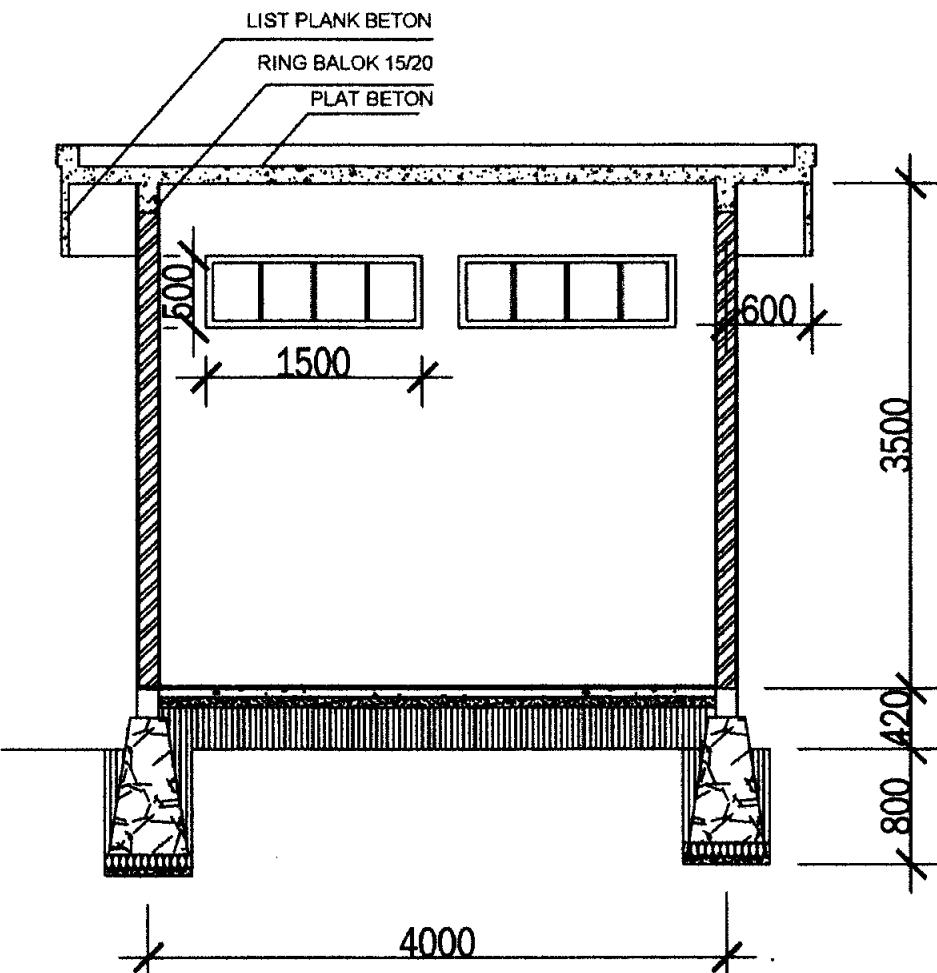
TAMPAK SAMPING KIRI

SKALA 1:75



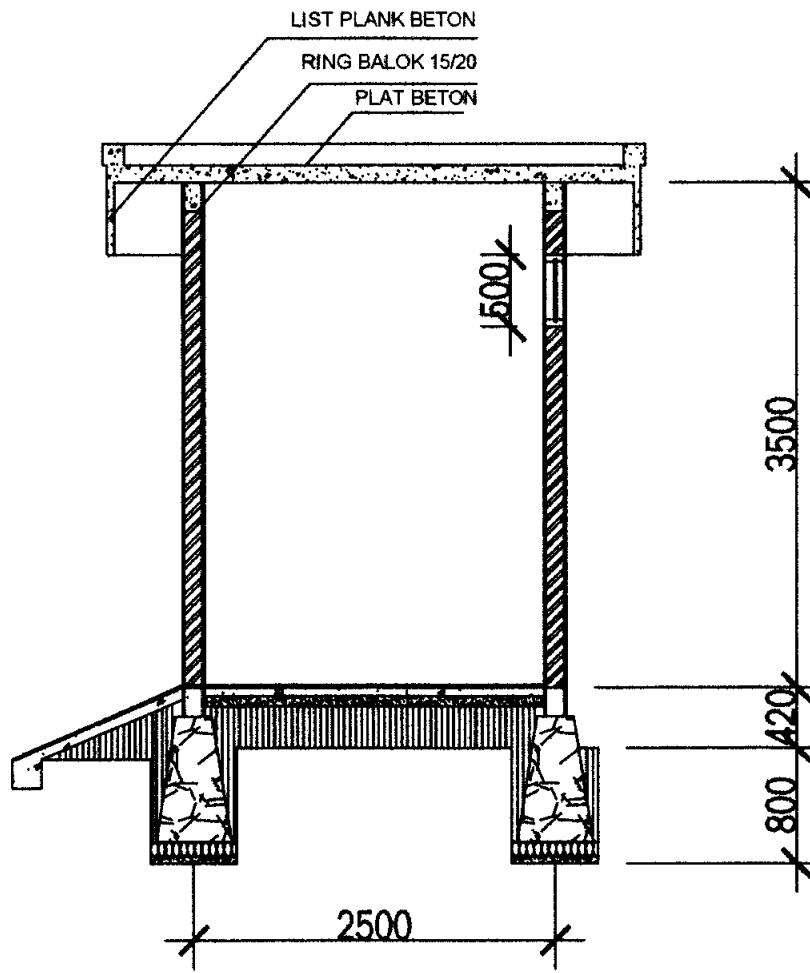
DENAH RENCANA KOLOM, SLOOR, & BALOK

SKALA 1:75



POTONGAN B-B

SKALA 1:75



POTONGAN A-A

SKALA 1:75

KEMENTERIAN PUPR
DIREKTORAT JENDERAL CPT KARYA
BALAI PRASARANA PERUMAHAN MULYAH GORONTALO
Jl. Prof Dr. Abdurrahman No.144, Wadukgantung, Gantung, Telp/Fax 0432-22000

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwato

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUWI

TIM TEKNIS TTD

MARTEN Y. LELENGBOYO, ST, MT

JOSEPH SETRIAWAN, ST

MUAZZAM HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

DIREKTUR UTAMA

Ir. SYAMSUDIN ABDULAH

TEAM LEADER

ANDRI LESMANA, ST, MIL

JUDUL GAMBAR

RUMAH GENSET

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR

UKURAN SLOOF	DESKRIPSI
15 x 20	TULANGAN
TYPE SLOOF	
S1	
Tulangan Atas	2 - Ø12
Tulangan Tengah	-
Tulangan Bawah	2 - Ø12
Tulangan Begel	Ø 10 - 12.5

UKURAN KOLOM	DESKRIPSI
15 x 15	TULANGAN
TYPE KOLOM	
K 1	
Tulangan Utama	4 - Ø12
Tulangan Begel	Ø 10 - 12.5

UKURAN BALOK	DESKRIPSI
15 x 20	TULANGAN
TYPE BALOK	
B1	
Tulangan Atas	2 - Ø14
Tulangan Tengah	2 - Ø14
Tulangan Bawah	2 - Ø14
Tulangan Begel	Ø 10 - 12.5

SKALA 1:20

DETAIL KOLOM, SLOOF, & BALOK

KEMENTERIAN PEKERJAAN UMUM DAN PERUBAHAN RAKYAT
DIREKTORAT JENDERAL Cipta Karya
BALAI PRASARANA PERMUKIMAN WILAYAH GORONTALO
Jl. Prof Dr. Arief Salim No. 82/Ud. Wanggudu Km Gorontalo Telp/Fax (043-43293)

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA, H. ABAS, ST
NIP: 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD

MARTEN Y. LELENGBOTO, ST, MT

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA, ST.MIL

JUDUL GAMBAR

DETAIL KOLOM,SLOOF, & BALOK

SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR

COR BETON 1:3:5

URUGAN PASIR

MUKA TANAH

PAS. BATU KALI 1:5

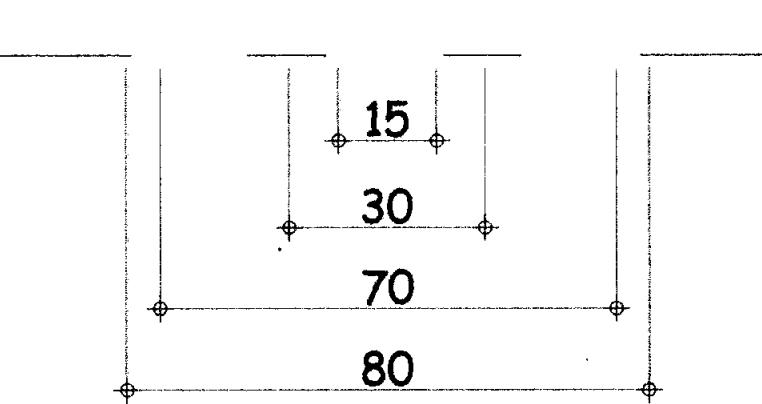
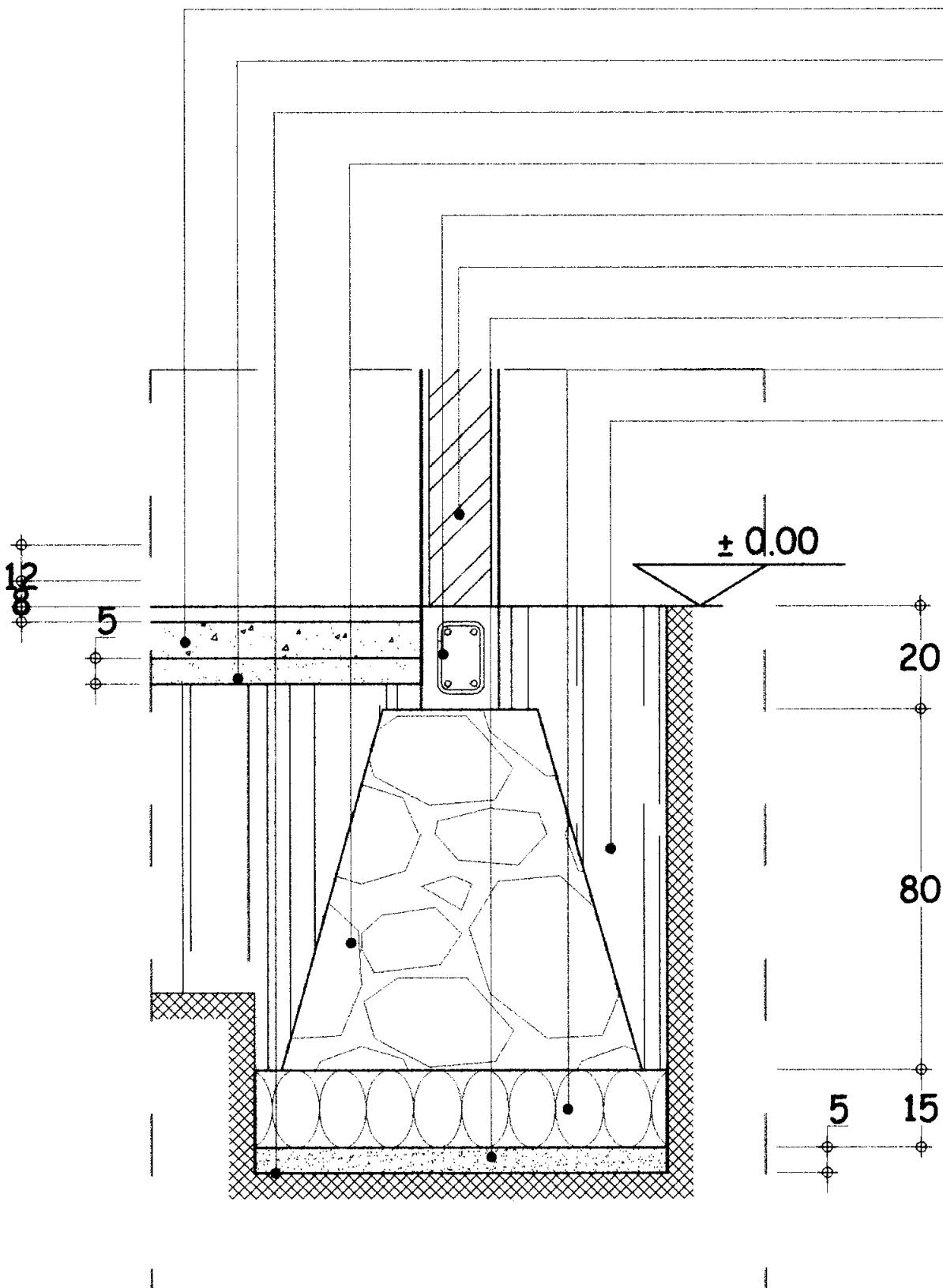
SLOOF 15/20

DINDING BATA 1:5

URUGAN PASIR

PAS. BATU KOSONG

URUGAN TANAH



DETAIL PONDASI

SKALA 1:30

DETAIL PONDASI

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR

--	--	--	--

KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAYA
DIREKTORAT JENDERAL CPTA KARYA
BALAI PRASARANA PEMERINTAH WILAYAH GORONTALO
Jl. Prof. Dr. Noer Siregar No. 2500, Venesia Selatan Gorontalo. Tel/Fax: 031-62202

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwato

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP. 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD

MARTEN Y. LELENGBOTO, ST, MT

JOSEPH SETRIAWAN, ST

MUAZZIN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

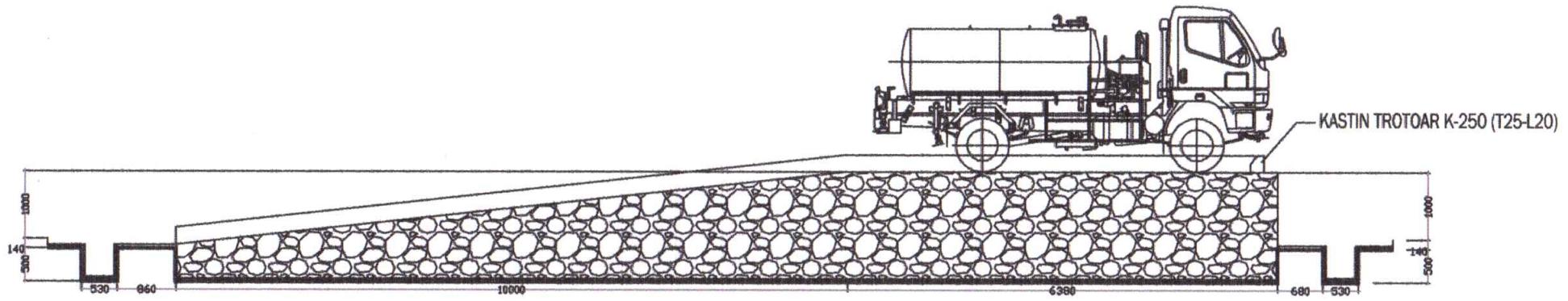
MONIKA STEVI CAROLIN, ST

KONSULTAN

DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA ST, MIL

JUDUL GAMBAR



KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CPTA KARYA
BALAI PRASARANA PEMERINTAHAN WILAYAH GORONTALO
Dr. Prof. Drs. Atal Sipan, MM. Wargabakti Nasional Gorontalo - Tel. 043-62588

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA, H. ABAS, ST
NIP. 19790119 200802 2 001

MENYETUJI

TIM TEKNIS TTD

MARTEN Y. LELENGBOTO, ST, MT

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMDHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
Your engineering consulting solution
CIV - SSOA - JASA - HPPNC - INFORMASI - UDPS

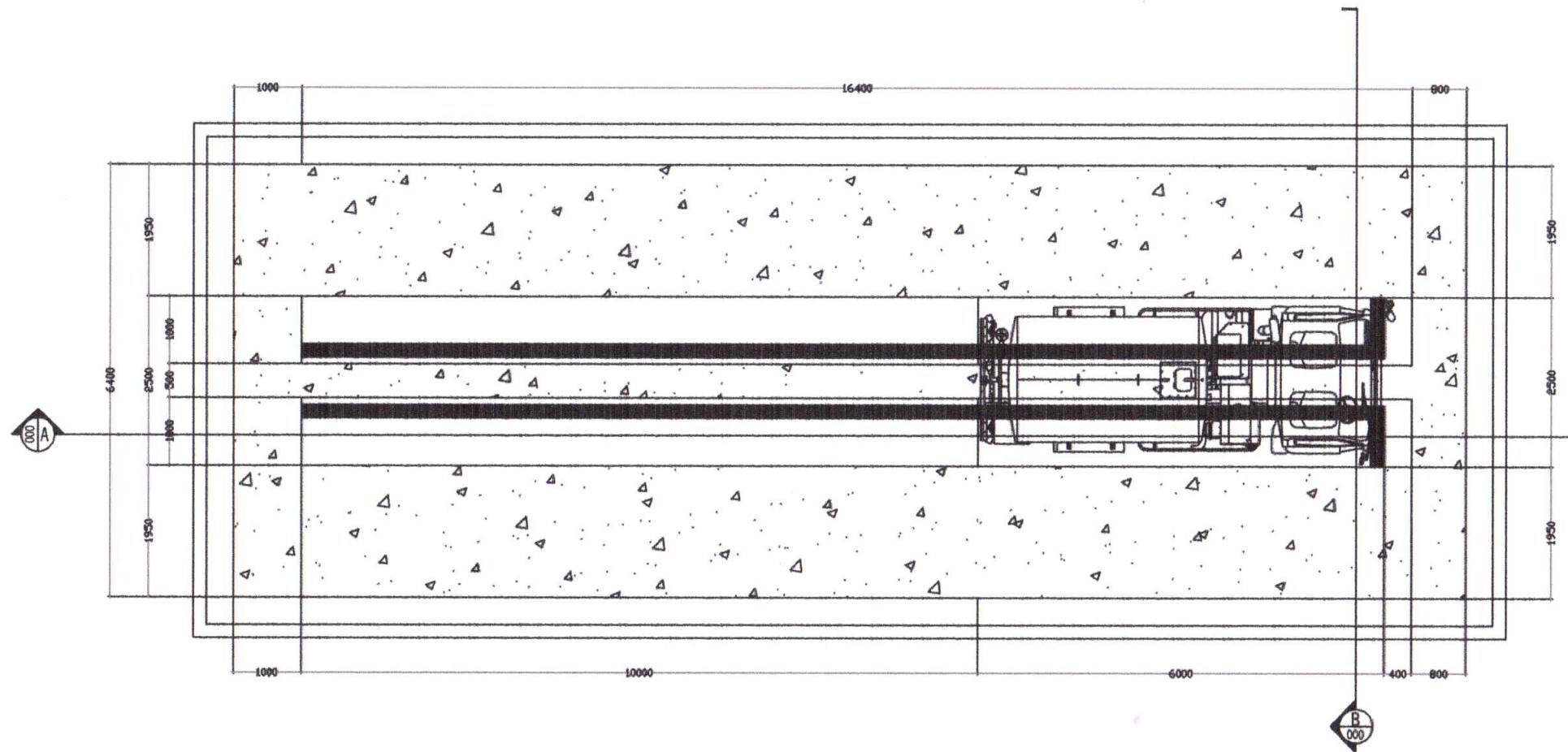
DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA ST.MIL

JUDUL GAMBAR

TEMPAT CUCI TRUCK

SKALA GAMBAR	KODE GAMBAR	NOMOR GAMBAR	JUMLAH GAMBAR



DENAH TEMPAT CUCI TRUCK

SKALA 1:75

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHuwATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA. H. ABAS, ST
NIP. 19790119 200802 2 001

MENYETUWI

TIM TEKNIS TTD

MARTEN Y. LELENGOBOTO, ST, MT

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ORCHI CIVIL konsultan
For engineering consulting solution
JL. SENGKANG 28A - BANTEN - INDONESIA 14310

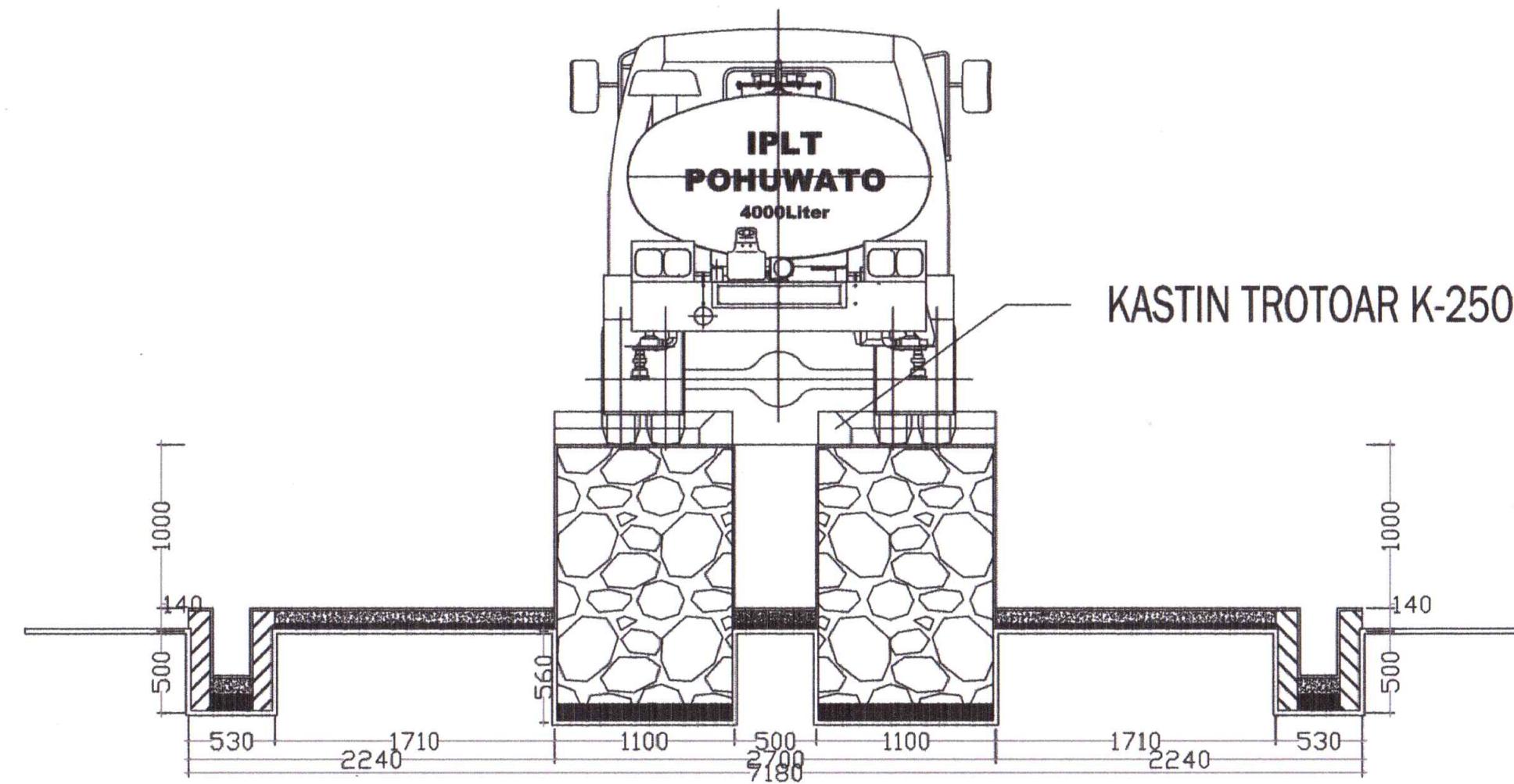
DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

TEAM LEADER
ANDRI LESMANA ST.MIL

JUDUL GAMBAR

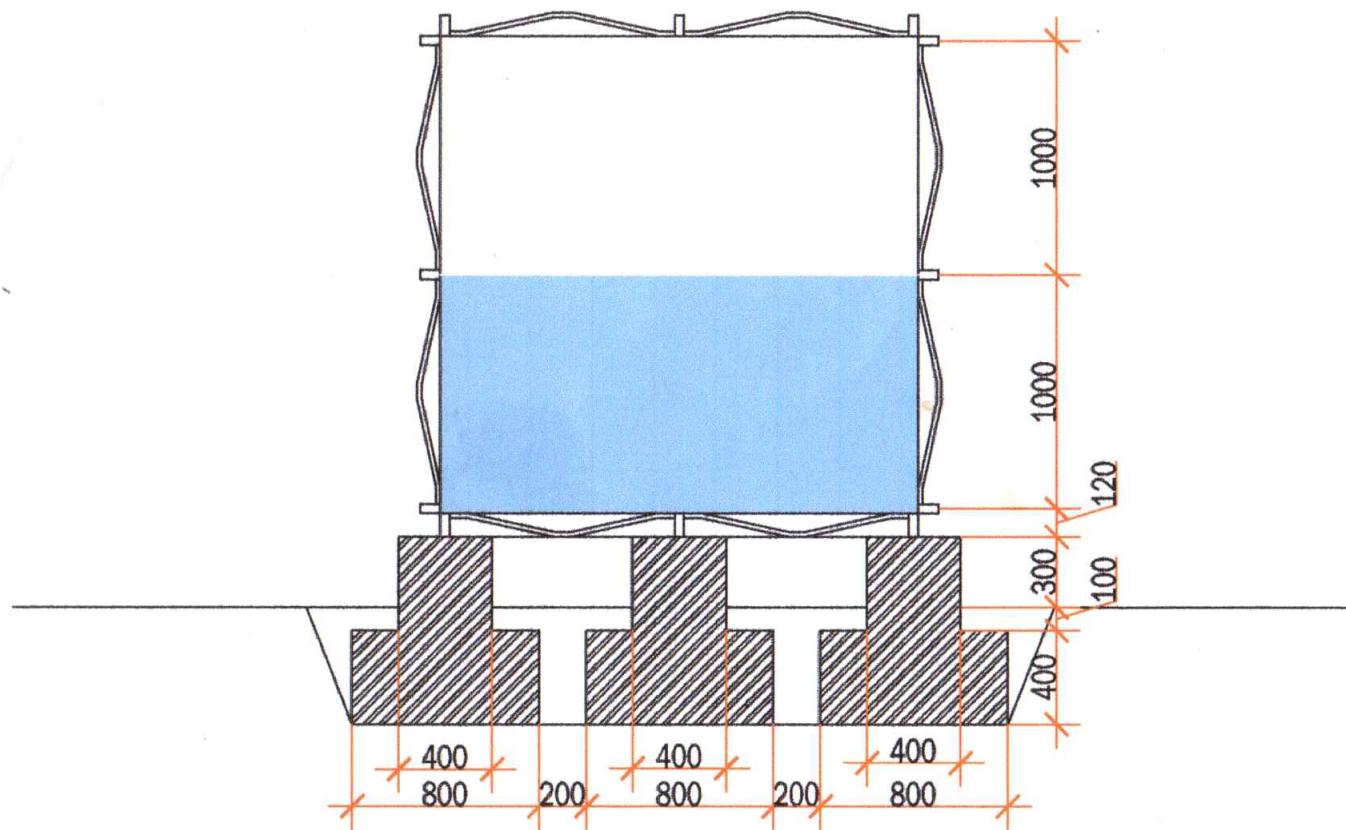
TEMPAT CUCI TRUCK

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR

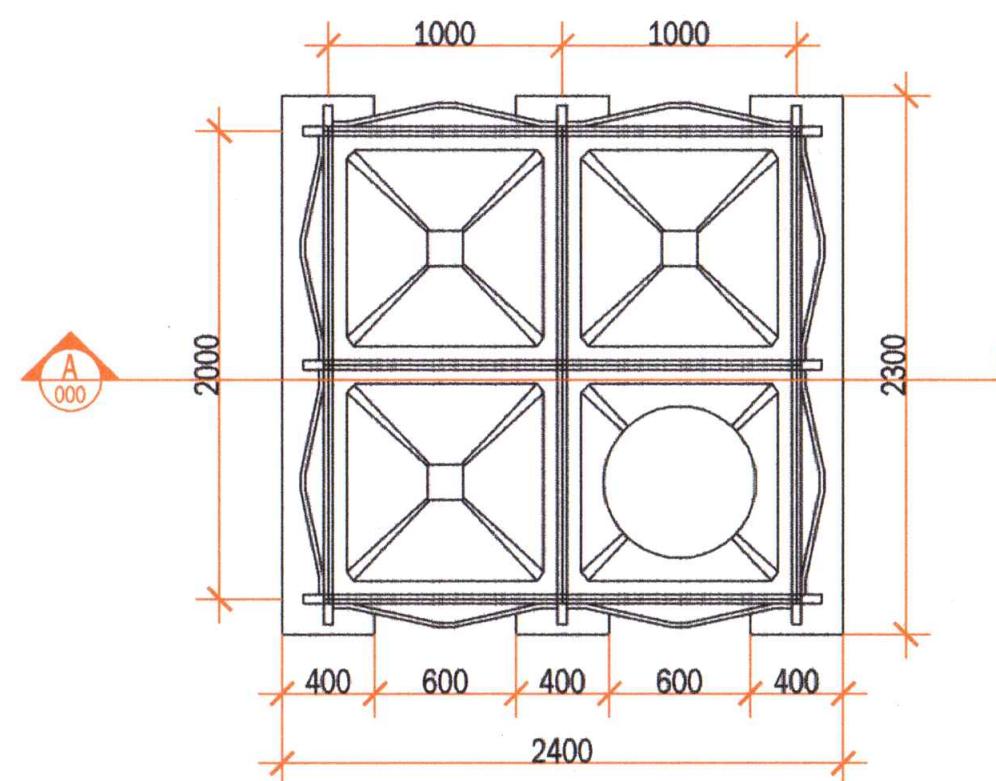


POTONGAN B

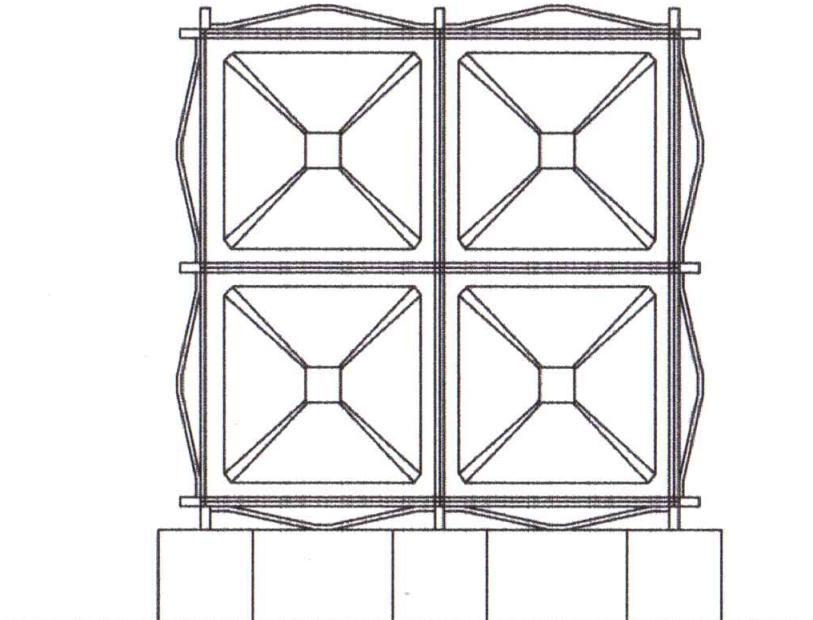
SKALA 1:30



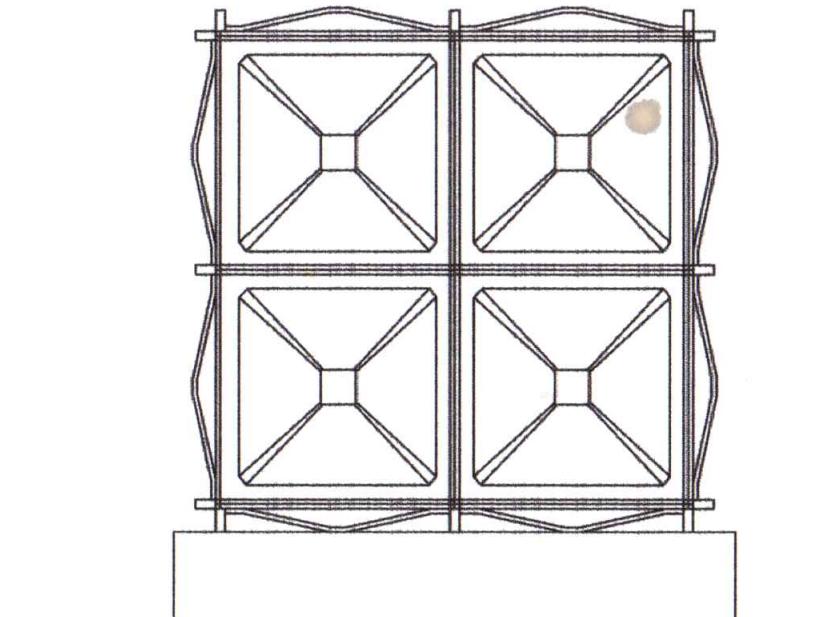
POTONGAN - A
SKALA 1:100



DENAH RESERVOIR
SKALA 1:100



TAMPAK DEPAN/BELAKANG
SKALA 1:100



TAMPAK SAMPING KIRI/KANAN
SKALA 1:100

KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
DIREKTORAT JENDERAL CIPTA KARYA
BALAI PRASARANA PERUMAHAN WILAYAH GORONTALO
Jl. Prof Dr. Abd Salam No.82A, Wayangkuli Kec. Gorontalo Telp/Fax: 0432-62368

REVIEW DED
INSTALASI PENGOLAHAN LUMPUR TINJA
KABUPATEN POHUWATO

PPK PERENCANAAN
BP2W GORONTALO

WIRDA H. ABAS, ST
NIP: 19790119 20082 2 001

MENYETUJI

TIM TEKNIS TTD
MARTEN Y. LELENGBOTO, ST, MT

YOSEPH SETRIAWAN, ST

MUAZMAN HAMZAH, ST

MOHAMMAD ARDIYA RAMADHAN, ST

MONIKA STEVI CAROLIN, ST

KONSULTAN

PT. ARCHI CIVIL konsultan
Engineering consulting solution
Civil - Structural - Geotechnical - Environment - Survey

DIREKTUR UTAMA
Ir. SYAMSUDIN ABDULAH

Syamsudin

TEAM LEADER
ANDRI LESMANA ST.MIL

A

JUDUL GAMBAR

RESERVOIR AIR

SKALA GAMBAR KODE GAMBAR NOMOR GAMBAR JUMLAH GAMBAR