

THE REPUBLIC OF MOZAMBIQUE

BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE



ADMINISTRAÇÃO DE INFRAESTRUTURAS
DE ÁGUA E SANEAMENTO (AIAS)

CONTRACT NO: XXXXXXXXXXXX

Project Name:

BEIRA SANITATION PROJECT : PRIORITY REHABILITATION PROJECT

TENDER DOCUMENT

VOLUME IV - BOOK OF DRAWINGS

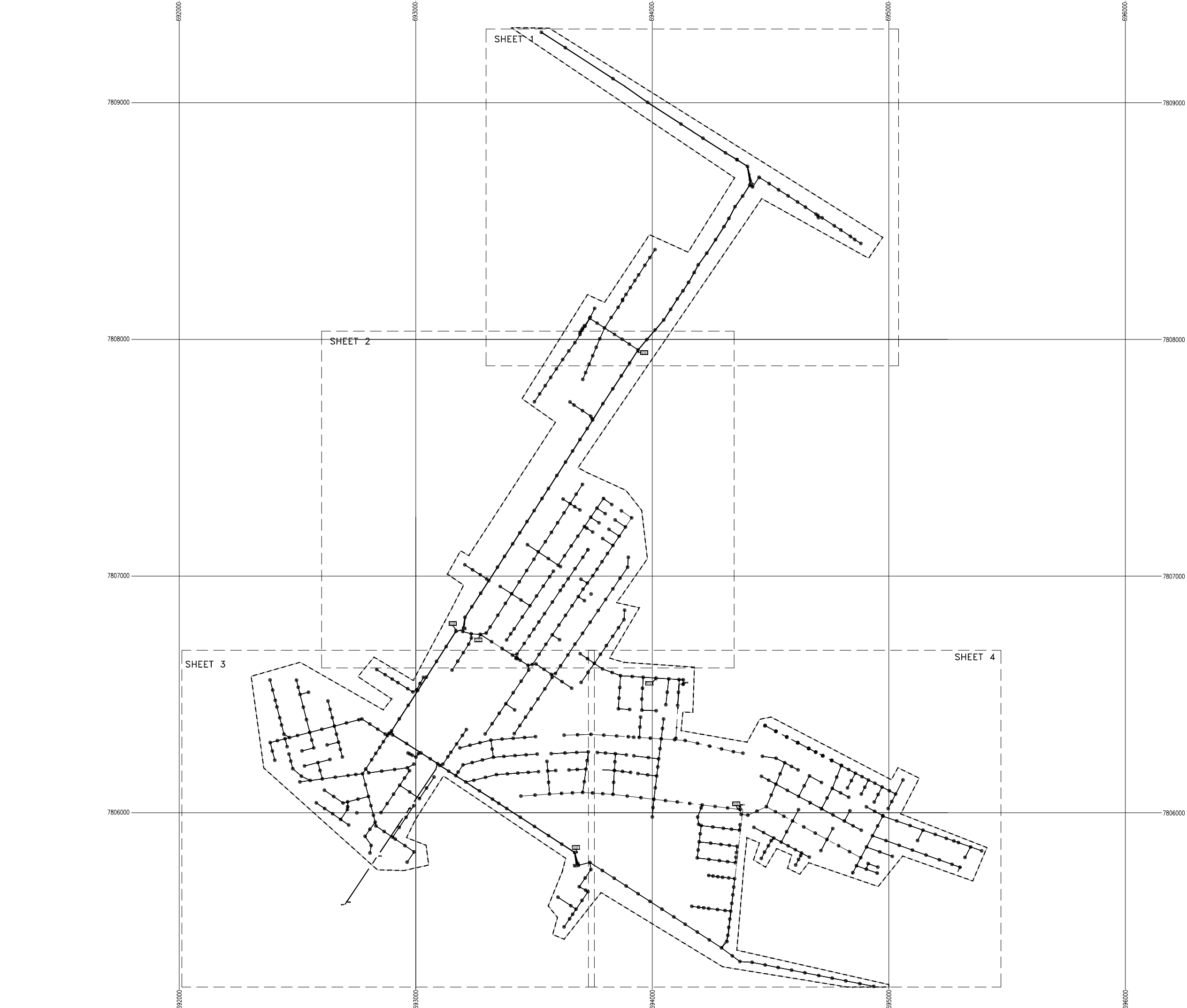
MAY, 2022



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	EEAS/BSMP/MOZ	SN.CW	37	EEAS/BSMP/MOZ/SN.CW.37	Catchment PB10 Collector Sewerline 1.1, 1.2 & 1.3 Plan and Profile	1
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	Filing ID	Drawing Code	Number	Drawing Number	Title	Sheet
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	EEAS/BSMP/MOZ	PS.CW	14	EEAS/BSMP/MOZ/PS.CW.14	Transition Chamber Details	1
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	EEAS/BSMP/MOZ	PS.CW	18	EEAS/BSMP/MOZ/PS.CW.18	PB10, PB11 & PB14. Transition Chamber Details	1
	EEAS/BSMP/MOZ	PS.CW	19	EEAS/BSMP/MOZ/PS.CW.19	Typical Fence Details	1
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LEGEND

EXTENT OF THE REHABILITATION

————

TRUNK LINE

————

COLLECTOR LINE

RELINED SEWER

⊙

MANHOLES

REVISIONS

REV.	DATE	DESCRIPTION	DES.	CHE.	APPR.

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:



SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

BEIRA SEWER REHABILITATION AREA
GENERAL LAYOUT PLAN

DESIGN BY:	PM	DRAWN BY:	AW
CHECKED BY:	MJB	APPROVED BY:	JF
SCALE:	1:7500 (A1)	DATE:	MAR 2022

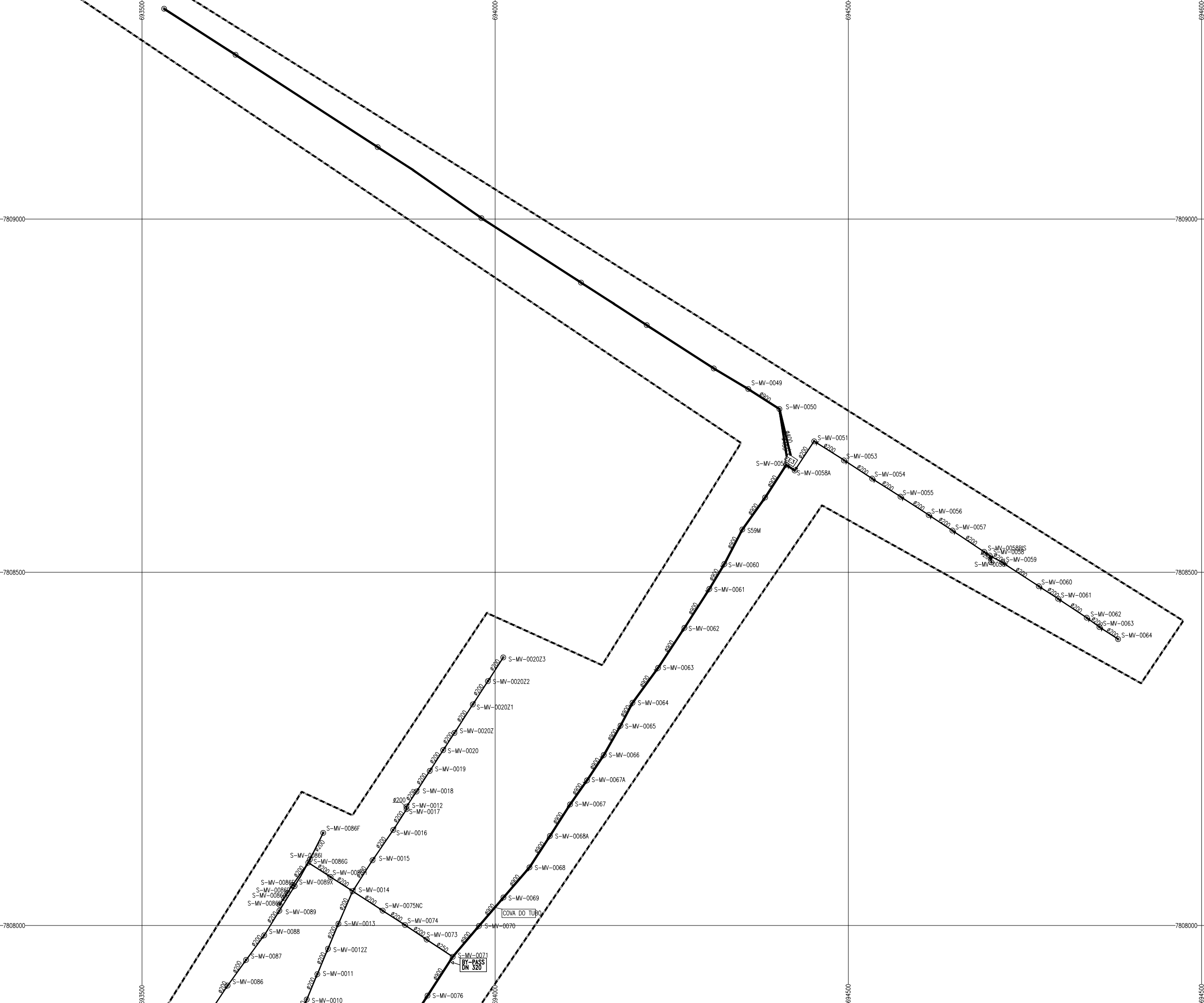
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DRAWING No.

EEAS/BSMP/MOZ/SN.GP.01

Revision

A	B	C	D	E	F
G	H	I	J	K	L



LEGEND

EXTENT OF THE REHABILITATION

TRUNK LINE

COLLECTOR LINE

RELINED SEWER

MANHOLES

SHEET INDEX

SHEET 2

SHEET 3

SHEET

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:

THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB

AIAS

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)

AV. EDUARDO MONDLANE, 1352.

MAPUTO

SASB

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET

PLANET S.A.

APOLLO TOWER 64 | LOUISE RIENCOURT

ST. 11523 ATHENS – GR

+30 210 690 5000

+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA

SEURECA CONSULTING ENGINEERS

30 RUE MADELEINE VIONNET

93300 AUBERVILLIERS – FRANCE

TEL: +331 85 57 70 00

PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI

BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE

SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

BEIRA SEWER REHABILITAION

DETAILED LAYOUT PLAN

SHEET 1 OF 4

DESIGN BY: PM

DRAWN BY: AW

CHECKED BY: MJB

APPROVED BY: JF

SCALE: 1:2500 (A1)

DATE: FEB 2022

JOB No. MZSP00512E

DRAWING No.

EEAS/BSMP/MOZ/SN.GP.01

Revision

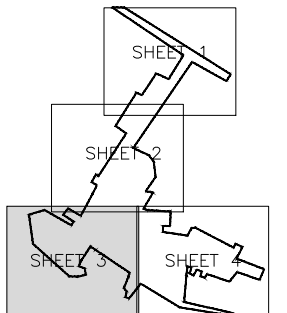
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G	H	I	J	K	L



LEGEND

-----	EXTENT OF THE REHABILITATION
_____	TRUNK LINE
_____	COLLECTOR LINE
-----	RELINED SEWER
⊙	MANHOLES

SHEET INDEX



REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

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BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS
DE ÁGUA E SANEAMENTO

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS
E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



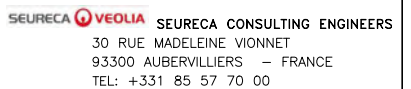
SERVIÇO AUTÔNOMO DE SANEAMENTO DA BEIRA
(SASB), AVENIDA ARMANDO TIVANE
BEIRA

CONSULTANTS:



PLANET S.A.
 APOLLO TOWER 64 | LOUISE RIENCOURT
 ST. 11523 ATHENS - GR
 +30 210 690 5000
 +30 210 698 1885

IN ASSOCIATION WITH:



PROJECT:

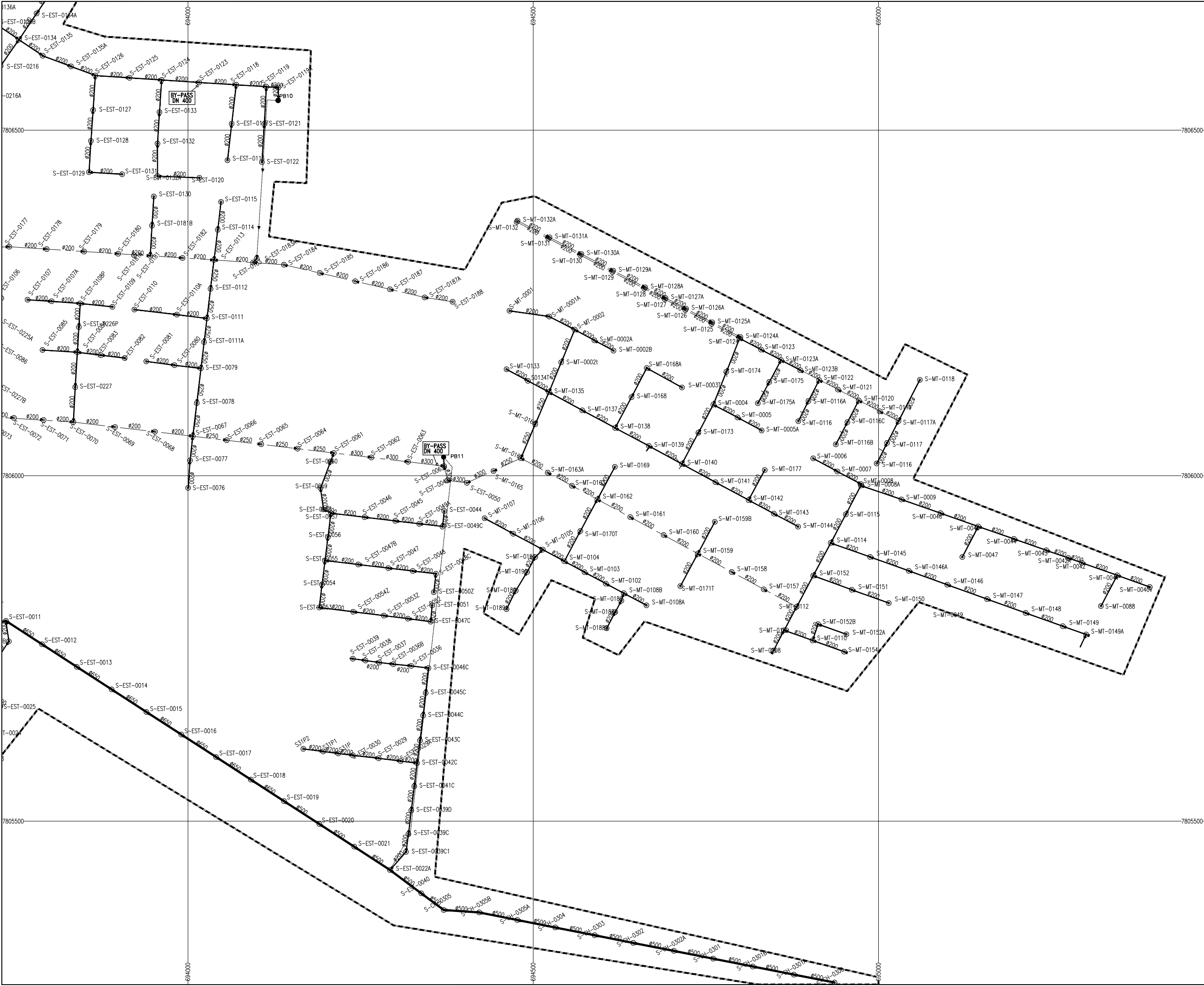
FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

BEIRA SEWER REHABILITATION AREA
DETAILED LAYOUT PLAN
SHEET 3 OF 4

DESIGN BY: PM	DRAWN BY: AW
CHECKED BY: MJB	APPROVED BY: JF
SCALE: 1:2500 (A1)	DATE: FEB 2022

JOB No. MZSP00512E									
DRAWING No. EEAS/BSMP/MOZ/SN.GP.01				Revision					
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LEGEND

- EXTENT OF THE REHABILITATION
- TRUNK LINE
- COLLECTOR LINE
- RELINED SEWER
- MANHOLES

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SHEET 2

SHEET 3

SHEET 4

REVISIONS

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ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

SERVÍÇO AUTÓNOMO DE SANEAMENTO DA BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI

BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE

SPECIFIC CONTRACT N° 300009970

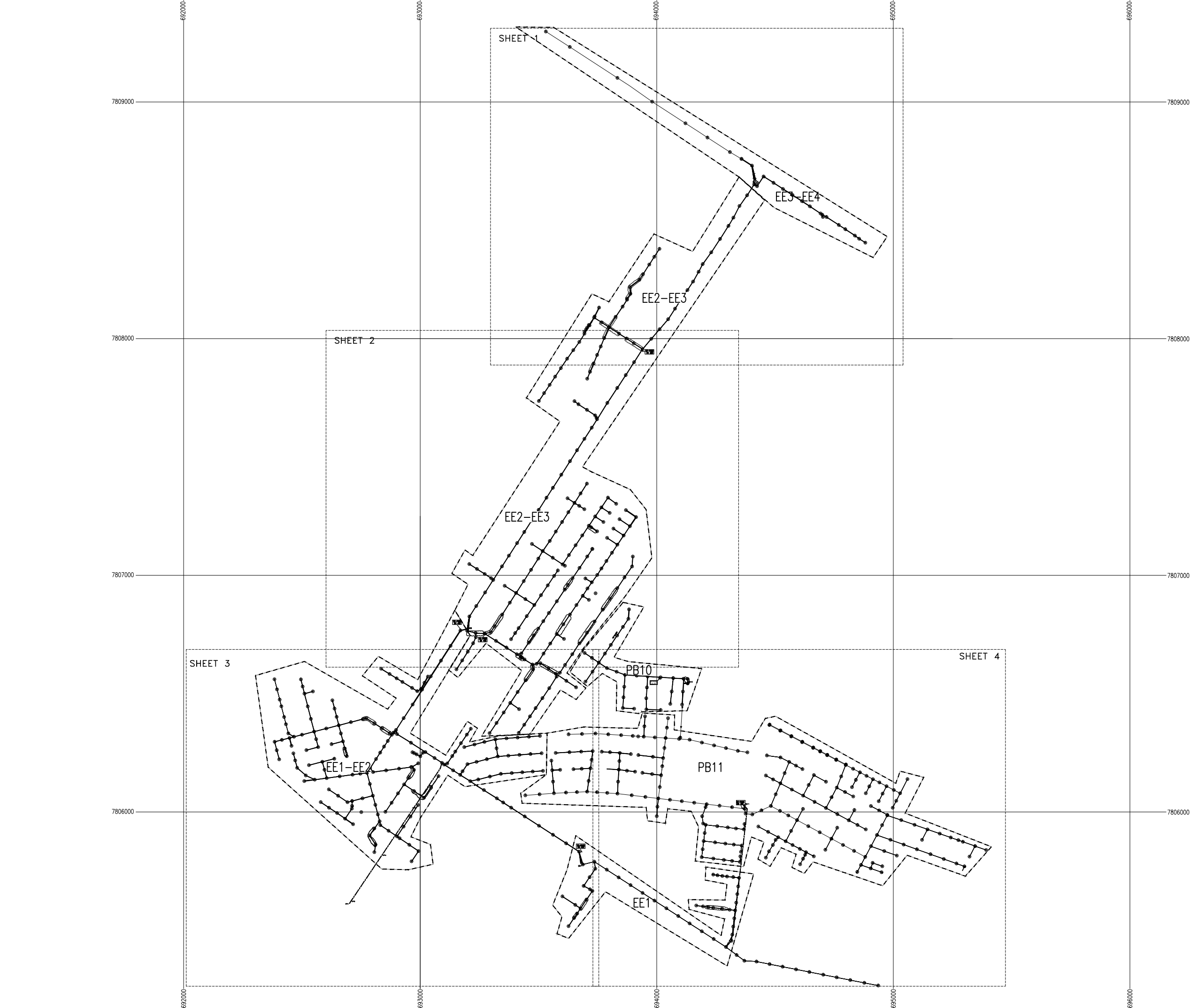
DRAWING TITLE:

BEIRA SEWER REHABILITATION AREA
DETAILED LAYOUT PLAN
SHEET 4 OF 4

DESIGN BY: PM	DRAWN BY: AW
CHECKED BY: MJB	APPROVED BY: JF
SCALE: 1:2500 (A1)	DATE: FEB 2022

JOB No. MZSP00512E

DRAWING No.	Revision
EEAS/BSMP/MOZ/SN.GP.01	A B C D E F G H I J K L



LEGEND

EXTENT OF SEWER REHABILITATION

TO BE REHABILITATED—
AVAILABLE PROFILES

TO BE REHABILITATED—
NO PROFILES (CONTRACTOR TO CONFIRM)

RELINED SEWER

MANHOLES

AREA TO RECEIVE OPEN-CUT
METHOD OF REHABILITATION

REVISIONS

REV.	DATE	DESCRIPTION	DES.	CHE.	APPR.

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ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS
E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA
(SASB), AVENIDA ARMANDO TIVANE
BEIRA

CONSULTANTS:

PLANET S.A.

APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS — GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS — FRANCE
TEL: +331 85 57 70 00

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FWC BENEFICIARIES 2018—LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE

SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

OPEN-CUT & TRENCHLESS
REHABILITATION WORKS LOCATION—
GENERAL LAYOUT PLAN

DESIGN BY:	PM	DRAWN BY:	AW
CHECKED BY:	MJB	APPROVED BY:	JF
SCALE:	1:7500 (A1)	DATE:	MAR 2022

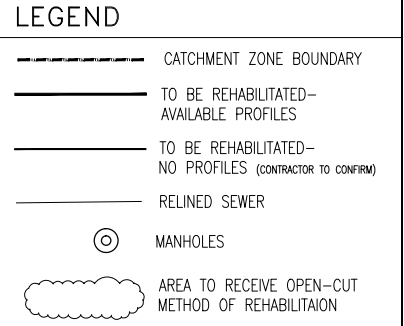
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DRAWING No.

EEAS/BSMP/MOZ/SN.GP.02

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ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS
E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÔNOMO DE SANEAMENTO DA BEIRA
(SASB), AVENIDA ARMANDO TIVANE
BEIRA

CONSULTANTS:



PLANET S.A.
 APOLLO TOWER 64 | LOUISE RIENCOURT
 ST. 11523 ATHENS – GR
 +30 210 690 5000
 +30 210 698 1885

IN ASSOCIATION WITH:



VEOLIA SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

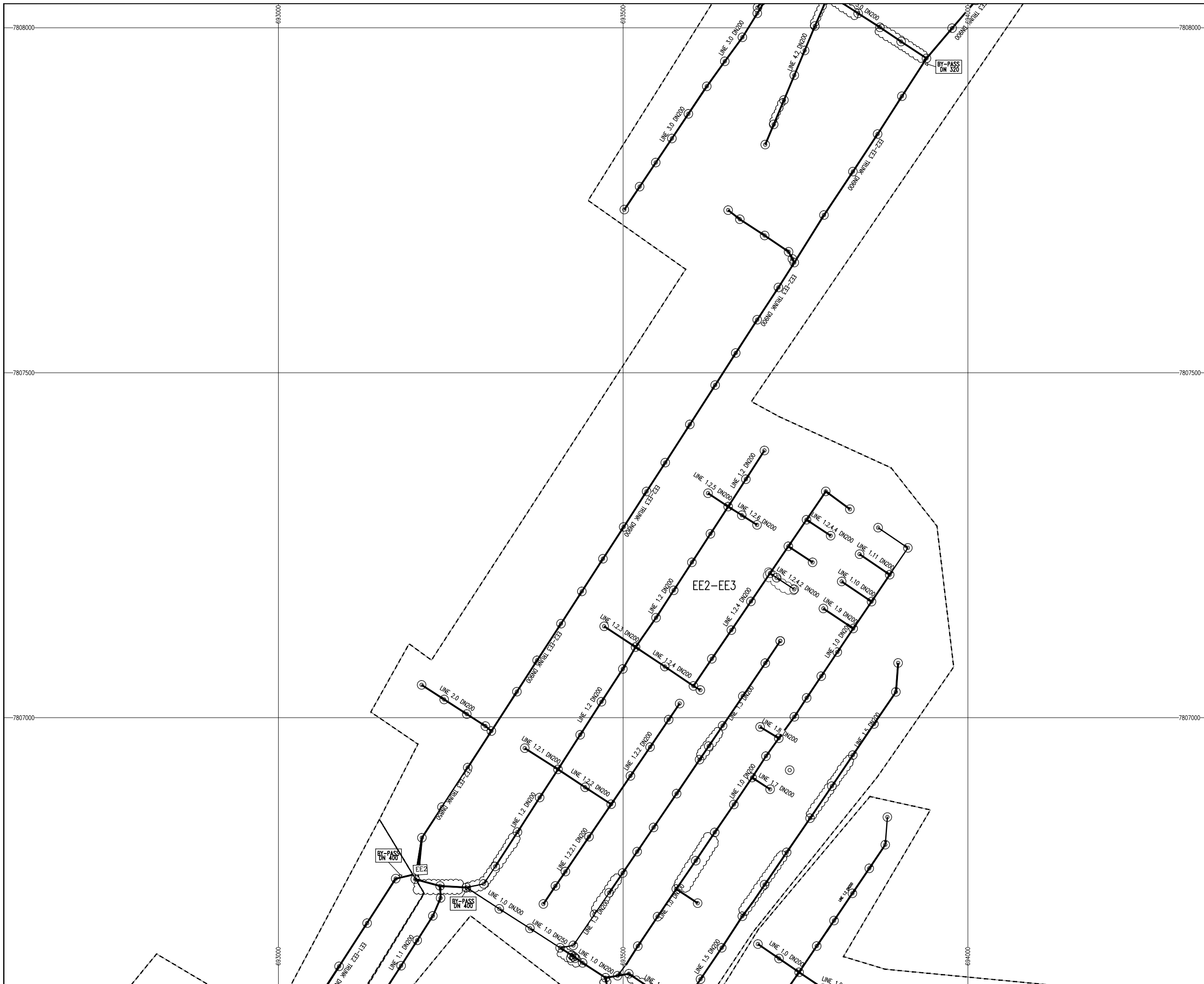
FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:







OPEN-CUT & TRENCHLESS
REHABILITATION WORKS LOCATION
DETAILED LAYOUT PLAN-SHEET 1 OF 4

DESIGN BY: PM	DRAWN BY: AW
CHECKED BY: MJB	APPROVED BY: JF
SCALE: 1:2500 (A1)	DATE: MAR 2022

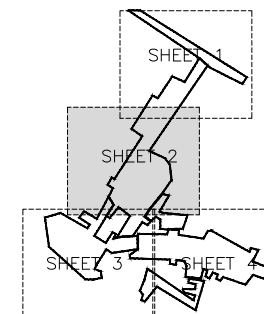
JOB No. MZSP00512E		Revision					
DRAWING No.		A	B	C	D	E	F
EEAS/BSMP/MOZ/SN.GP.02		G	H	I	J	K	L



LEGEND

- | | |
|---|---|
|  | CATCHMENT ZONE BOUNDARY |
|  | TO BE REHABILITATED—
AVAILABLE PROFILES |
|  | TO BE REHABILITATED—
NO PROFILES (CONTRACTOR TO CONFIRM) |
|  | RELINED SEWER |
|  | MANHOLES |
|  | AREA TO RECEIVE OPEN-CUT
METHOD OF REHABILITATION |

SHEET INDEX



REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR.

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE
EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS
DE ÁGUA E SANEAMENTO

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS
E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÔNOMO DE SANEAMENTO DA BEIRA
(SASB), AVENIDA ARMANDO TIVANE
BEIRA

CONSULTANTS:



PLANET S.A.
D TOWER 64 | LOUISE RIENCOURT
523 ATHENS - GR
10 690 5000
10 698 1885

IN ASSOCIATION WITH:



A SEURECA CONSULTING ENGINEERS
E MADELEINE VIONNET
AUBERVILLIERS – FRANCE
331 85 57 70 00

PROJECT:

FWC BENEFICIARIES 2018—LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

OPEN-CUT & TRENCHLESS
REHABILITATION WORKS LOCATION
DETAILED LAYOUT PLAN-SHEET 2 OF 4

DESIGN BY: PM	DRAWN BY: AW
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CHECKED BY: MJB	APPROVED BY: JF
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SCALE: 1:2500 (A1)	DATE: MAR 2022
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JOB No. M7SP00512F

DRAWING No.	Revision
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EEAS/BSMP/MOZ/SN.GP.02	A	B	C	D	E	F
	G	H	I	J	K	L



LEGEND

- CATCHMENT ZONE BOUNDARY
- TO BE REHABILITATED—AVAILABLE PROFILES
- TO BE REHABILITATED—NO PROFILES (CONTRACTOR TO CONFIRM)
- RELINED SEWER
- MANHOLES
- AREA TO RECEIVE OPEN-CUT METHOD OF REHABILITAION

SHEET INDEX

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:

THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE

SPECIFIC CONTRACT N° 300009970

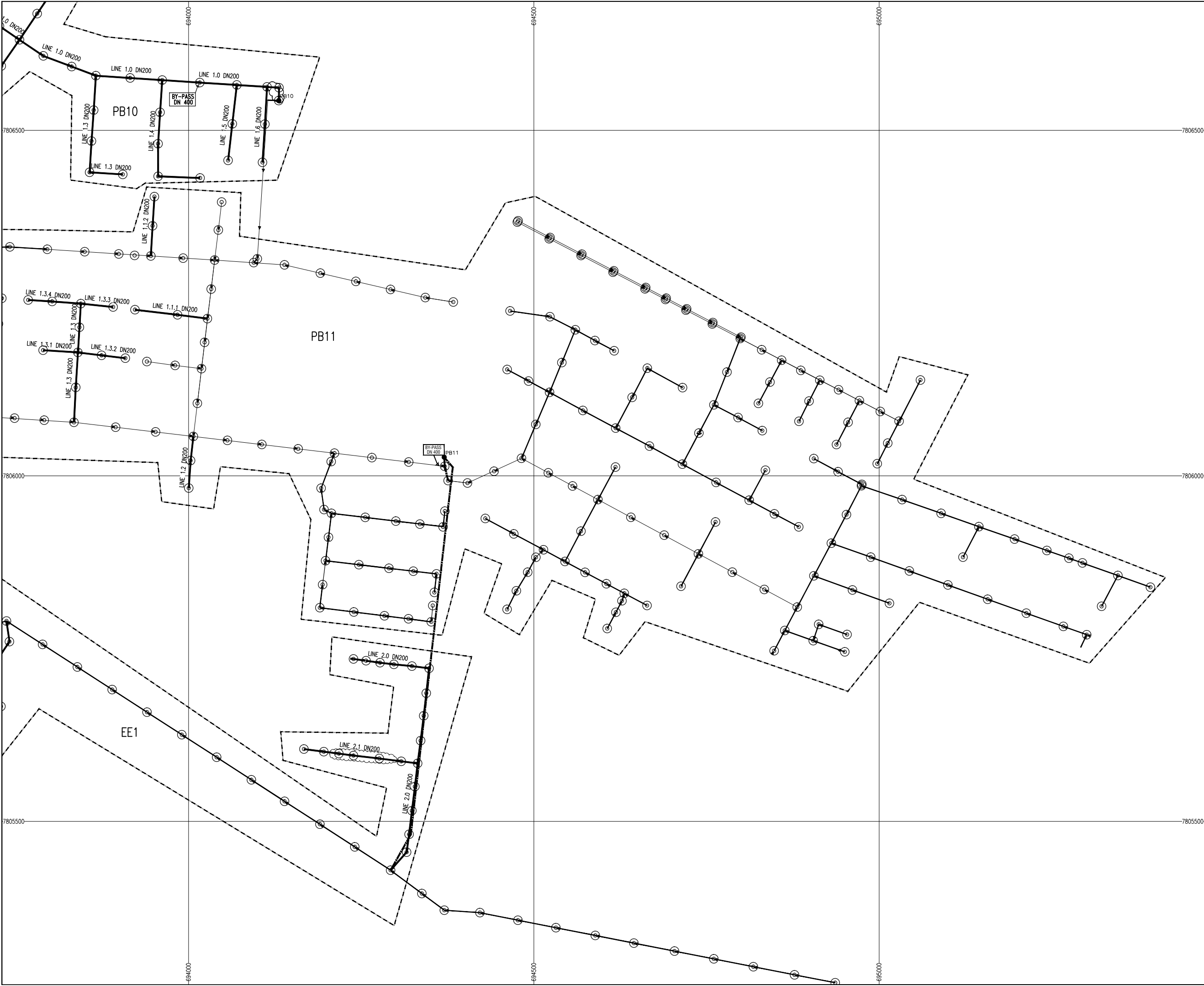
DRAWING TITLE:

OPEN-CUT & TRENCHLESS REHABILITATION WORKS LOCATION DETAILED LAYOUT PLAN-SHEET 3 OF 4

DESIGN BY:	PM	DRAWN BY:	AW
CHECKED BY:	MJB	APPROVED BY:	JF
SCALE:	1:2500 (A1)	DATE:	MAR 2022

JOB No. MZSP00512E

DRAWING No.	Revision
EEAS/BSMP/MOZ/SN.GP.02	A B C D E F G H I J K L



LEGEND

- CATCHMENT ZONE BOUNDARY
- TO BE REHABILITATED—AVAILABLE PROFILES
- TO BE REHABILITATED—NO PROFILES (CONTRACTOR TO CONFIRM)
- RELINED SEWER
- MANHOLES
- AREA TO RECEIVE OPEN-CUT METHOD OF REHABILITATION

SHEET INDEX

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:

THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS — GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS — FRANCE
TEL: +331 85 57 70 00

PROJECT:

FWC BENEFICIARIES 2018—LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

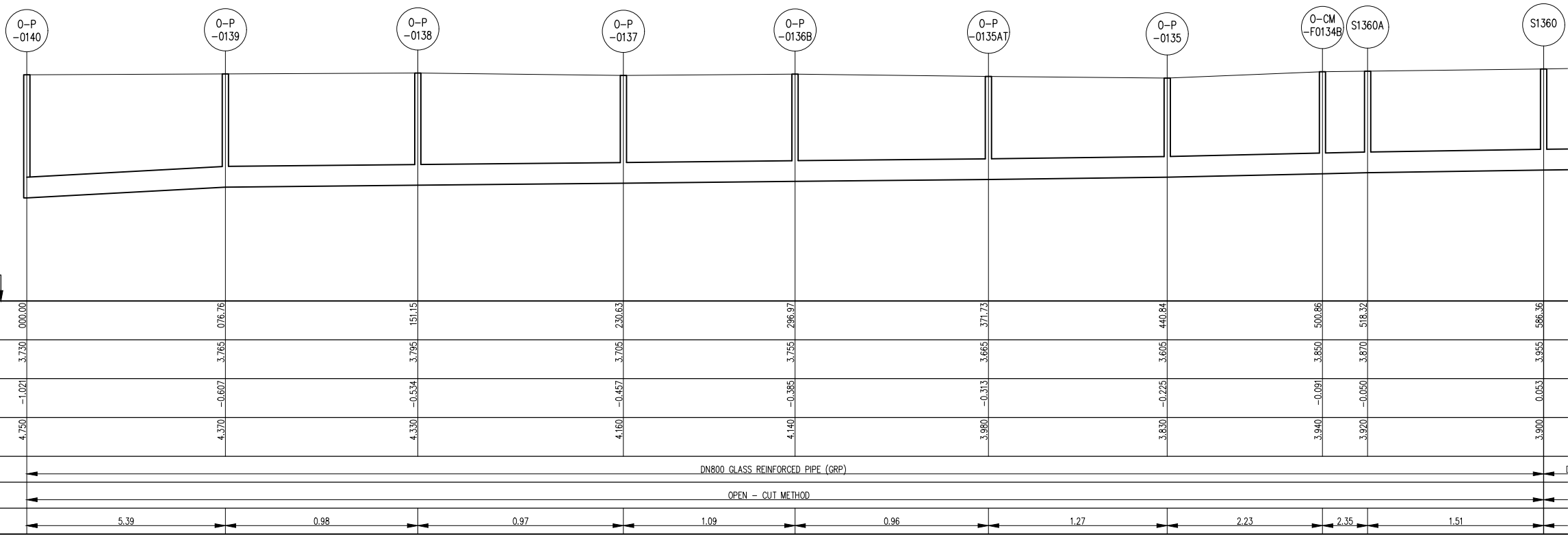
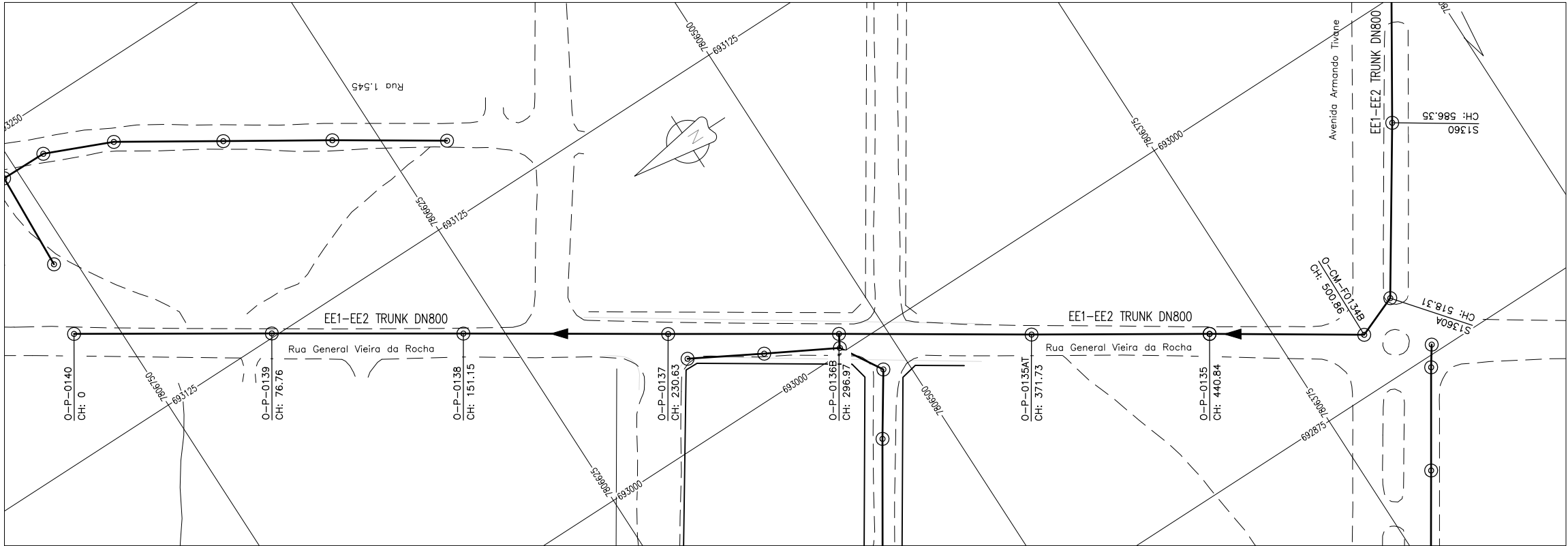
DRAWING TITLE:

OPEN-CUT & TRENCHLESS REHABILITATION WORKS LOCATION
DETAILED LAYOUT PLAN—SHEET 4 OF 4

DESIGN BY:	PM	DRAWN BY:	AW
CHECKED BY:	MJB	APPROVED BY:	JF
SCALE:	1:2500 (A1)	DATE:	MAR 2022

JOB No. MZSP00512E

DRAWING No.	Revision											
	A	B	C	D	E	F	G	H	I	J	K	L
EEAS/BSMP/MOZ/SN.GP.02												



TRUNK SEWERLINE EE1-EE2 PROFILE – SHT1

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

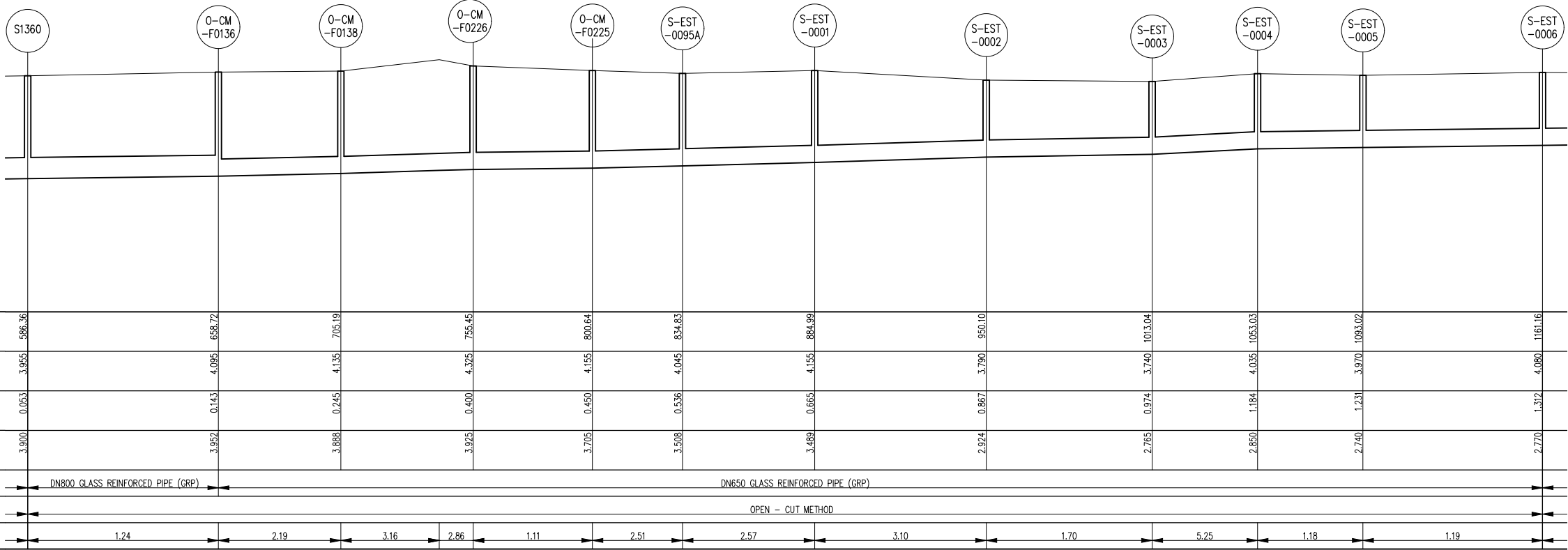
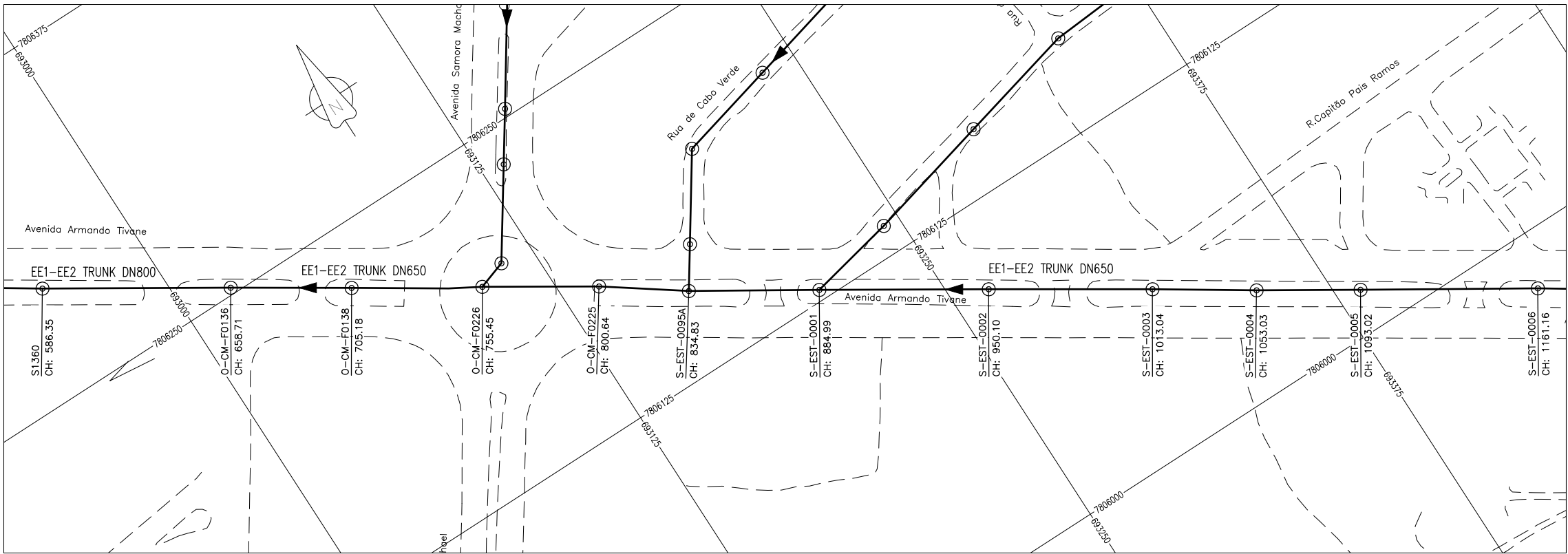
PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

TRUNK SEWERLINE EE1-EE2
PLAN AND PROFILE
SHEET 1 OF 3

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.03	Revision A B C D E F G H I J K L



TRUNK SEWERLINE EE1-EE2 PROFILE - SHT2

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:
SEURECA **VEOLIA** SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

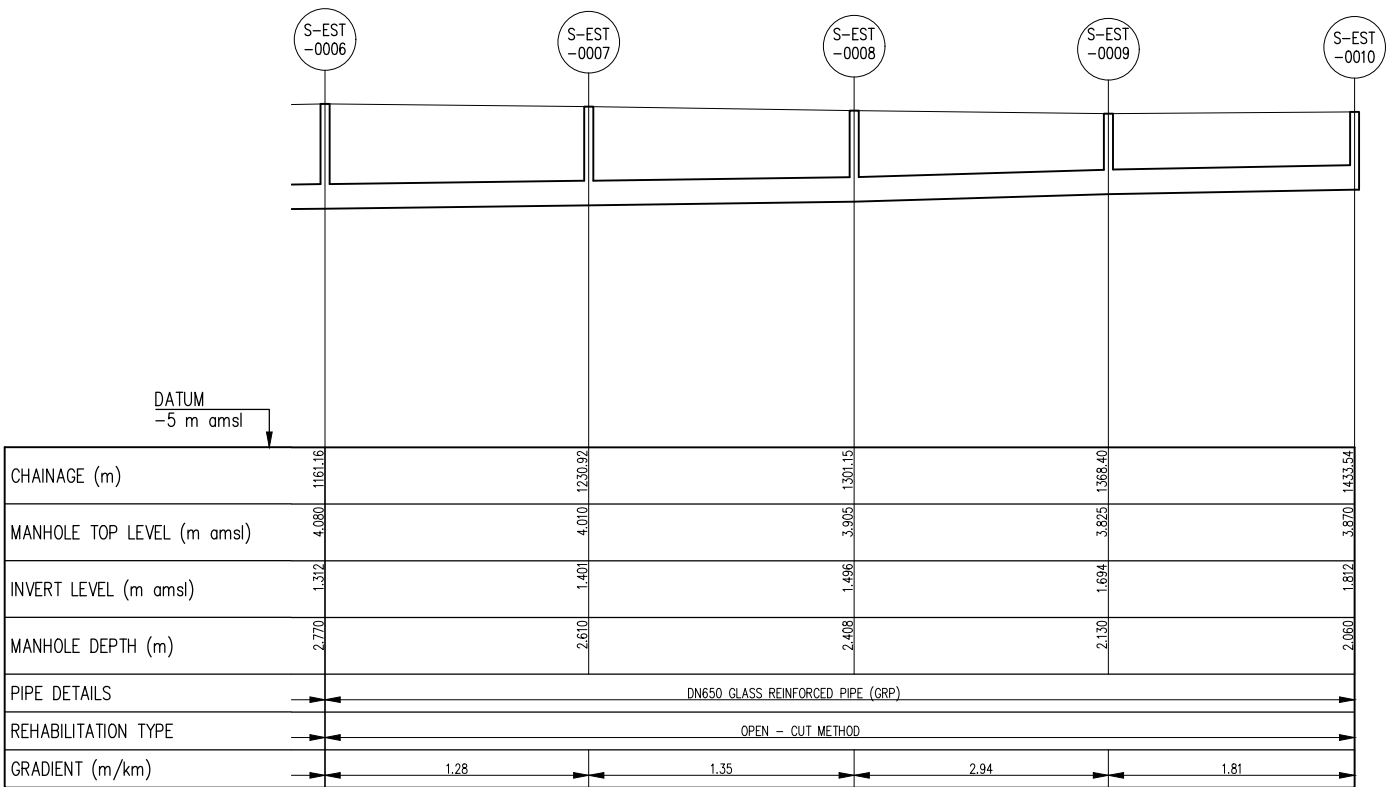
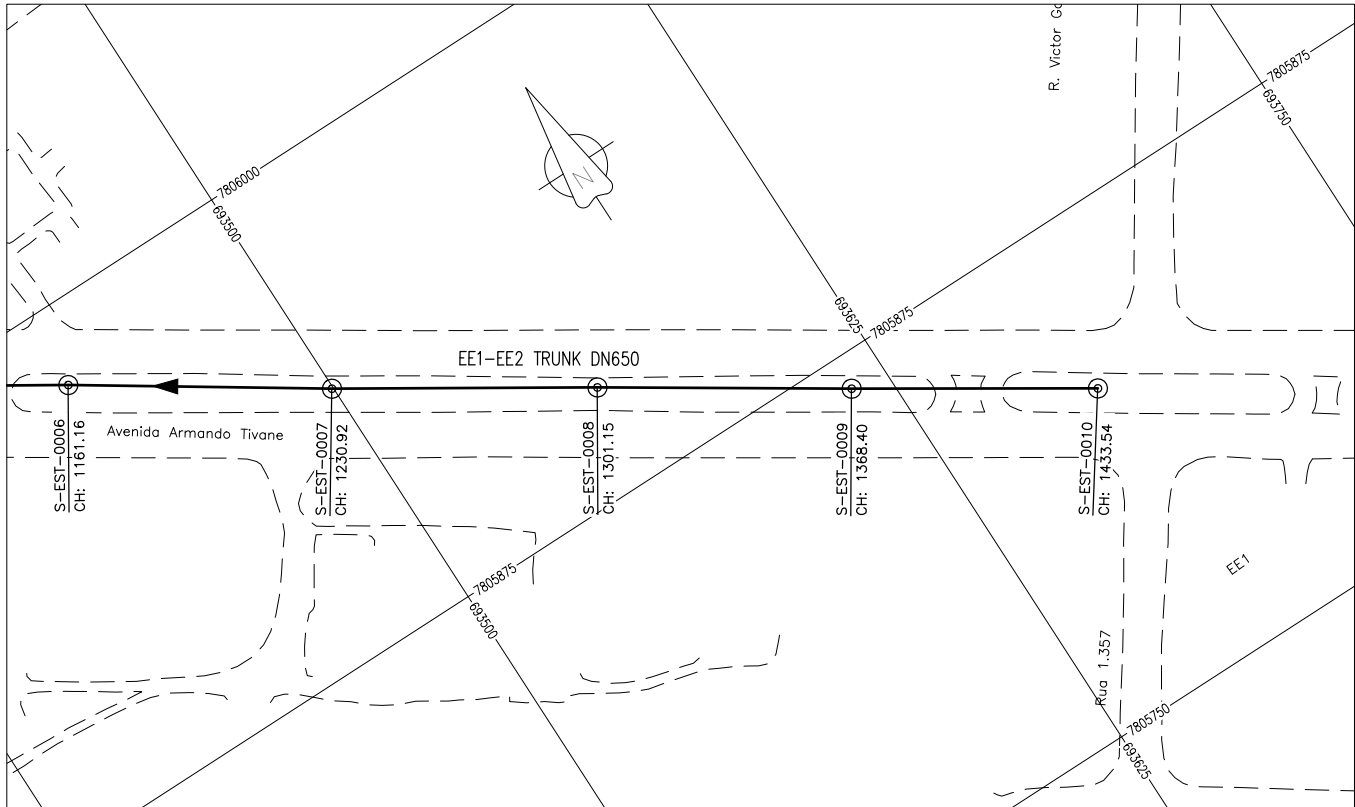
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

TRUNK SEWERLINE EE1-EE2
PLAN AND PROFILE
SHEET 2 OF 3

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.03	Revision A B C D E F G H I J K L



TRUNK SEWERLINE EE1-EE2 PROFILE – SHT3

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:
 SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

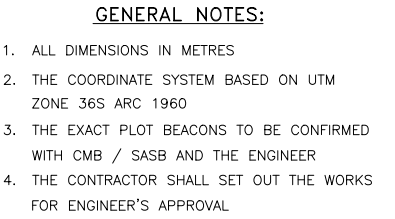
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SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

TRUNK SEWERLINE EE1-EE2
PLAN AND PROFILE
SHEET 3 OF 3

DESIGN BY:	PM	DRAWN BY:	KC
CHECKED BY:	MJB	APPROVED BY:	JF
SCALE:	Hor 1:1000, Ver 1:100	DATE:	MARCH 2022

JOB No. MZSP00512E	Revision						
DRAWING No. EEAS/BSMP/MOZ/SN.CW.03		A	B	C	D	E	F
		G	H	I	J	K	L



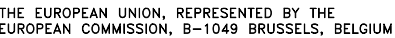
MANHOLE

SEWER LINE

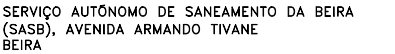
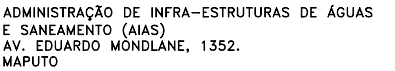
ROAD

REV.	DATE	DESCRIPTION	DES.	CHE.	APPROV.

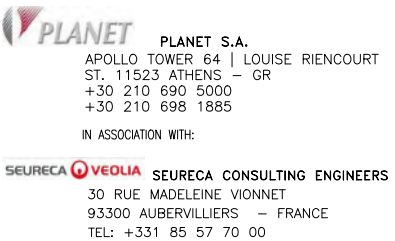
CLIENT:



BENEFICIARY: AIAS, SASB



CONSULTANTS:



PROJECT:

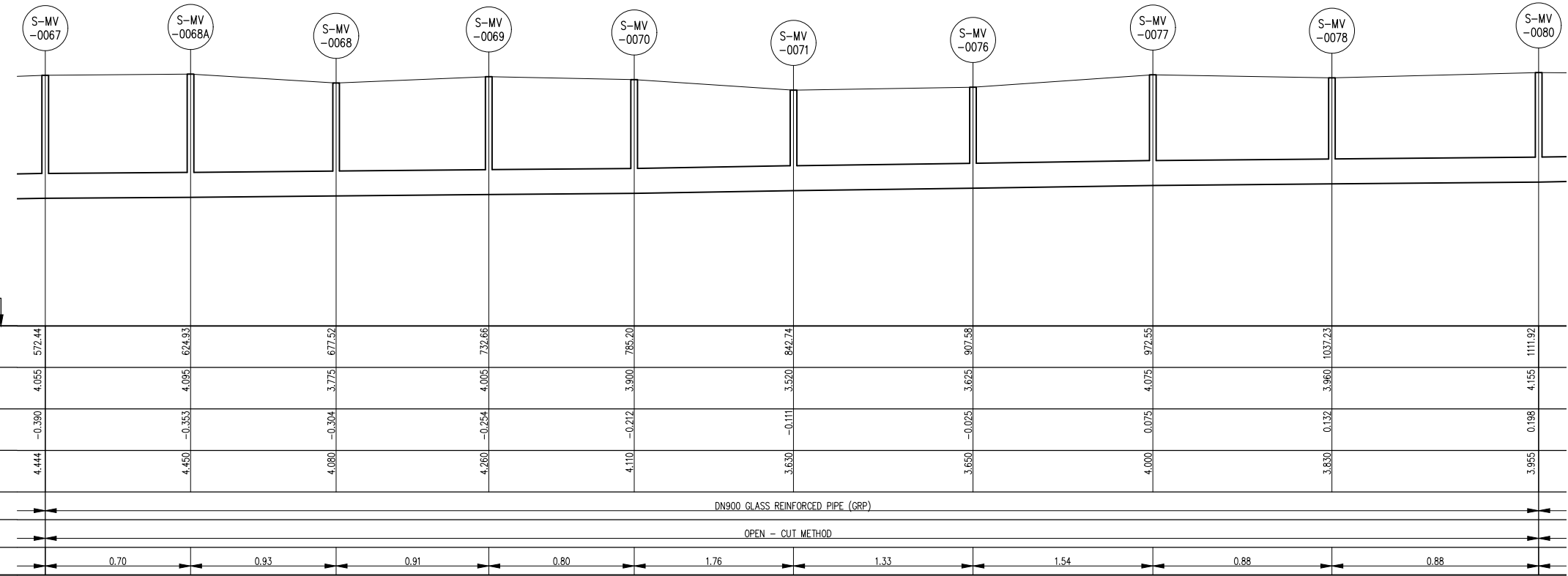
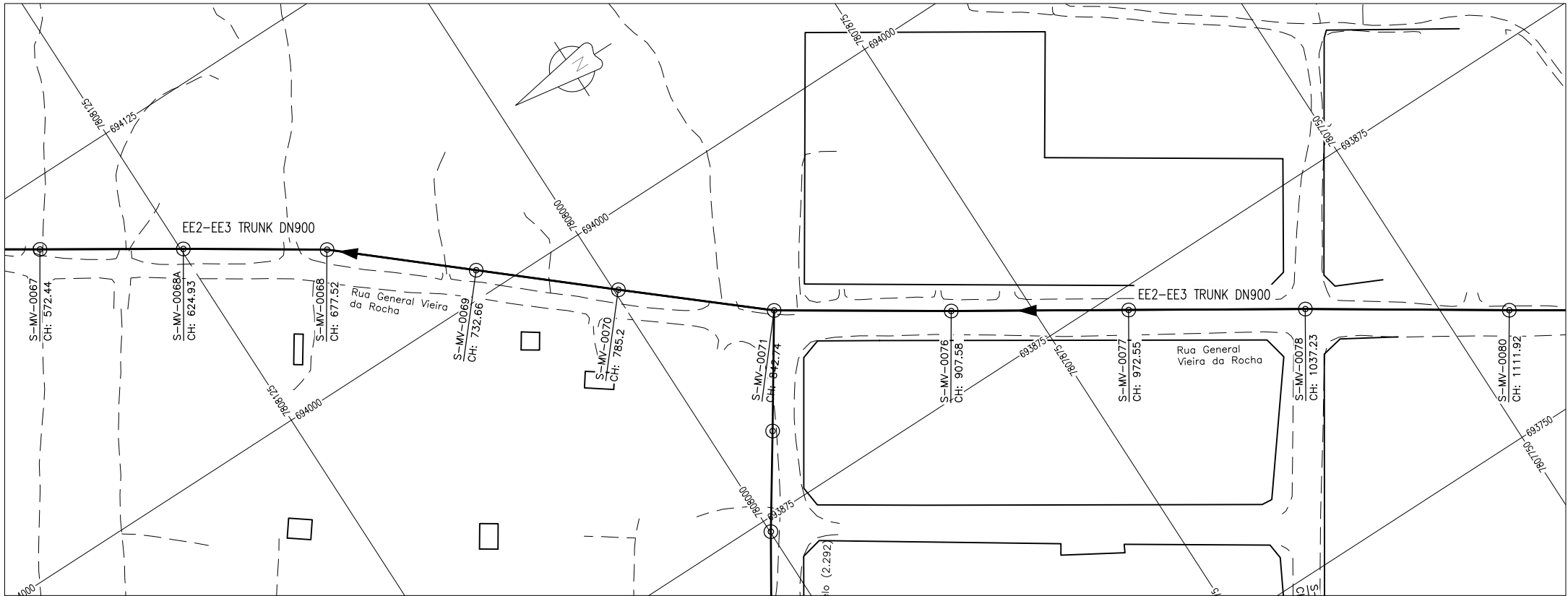
FWC BENEFICIARIES 2018—LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

TRUNK SEWERLINE EE2-EE3
PLAN AND PROFILE
SHEET 1 OF 4

DESIGN BY: PM	DRAWN BY: KC												
CHECKED BY: MJB	APPROVED BY: JF												
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022												
JOB No. MZSP00512E													
DRAWING No.	Revision												
EEAS/BSMP/MOZ/SN.CW.04	<table><tr><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td></tr><tr><td>G</td><td>H</td><td>I</td><td>J</td><td>K</td><td>L</td></tr></table>	A	B	C	D	E	F	G	H	I	J	K	L
A	B	C	D	E	F								
G	H	I	J	K	L								

TRUNK SEWERLINE EE2-EE3 PROFILE - SHT1



TRUNK SEWERLINE EE2-EE3 PROFILE – SHT2

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

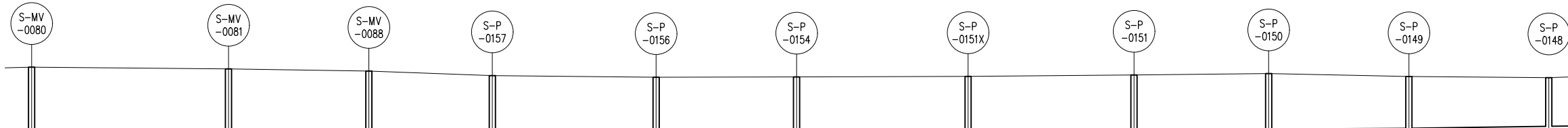
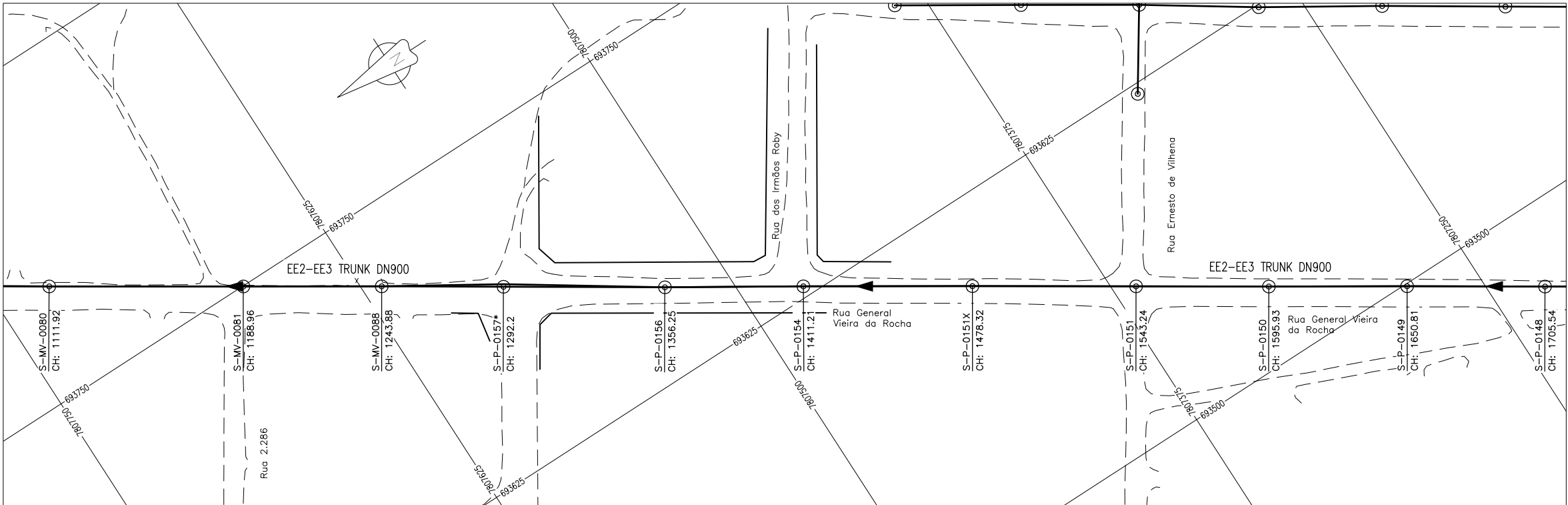
PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

TRUNK SEWERLINE EE2-EE3
PLAN AND PROFILE
SHEET 2 OF 4

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.04	Revision
	A B C D E F
	G H I J K L



	DATUM -5 m amsl									
CHAINAGE (m)	1111.92	1188.96	1243.88	1292.19	1356.27	1411.23	1478.34	1543.26	1595.95	1705.56
MANHOLE TOP LEVEL (m amsl)	4.155	4.085	4.000	3.825	3.760	3.775	3.790	3.850	3.905	3.745
INVERT LEVEL (m amsl)	0.198	0.335	0.390	0.425	0.483	0.554	0.672	0.718	0.834	0.944
TRENCH DEPTH (m)	3.955	3.750	3.610	3.400	3.275	3.220	3.120	3.130	3.070	2.800
PIPE DETAILS	DN900 GLASS REINFORCED PIPE (GRP)									
BEDDING DETAILS	OPEN - CUT METHOD									
GRADIENT (m/km)	1.78	1.00	0.72	0.91	1.29	1.76	0.71	2.20	0.62	1.39

TRUNK SEWERLINE EE2-EE3 PROFILE – SHT3

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES
2. THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
3. THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
4. THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- ⊙ MANHOLE
- SEWER LINE
- - - ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
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IN ASSOCIATION WITH:
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30 RUE MADELEINE VIONNET
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TEL: +331 85 57 70 00

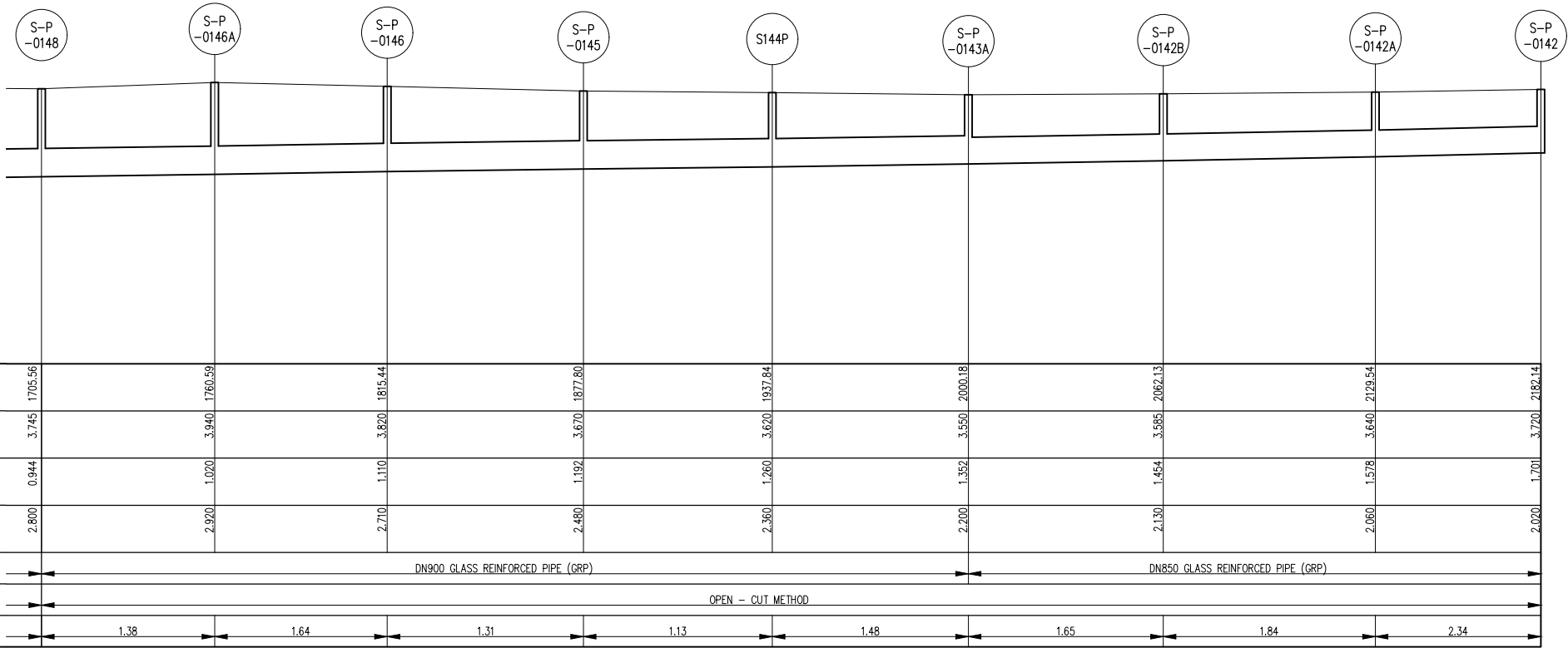
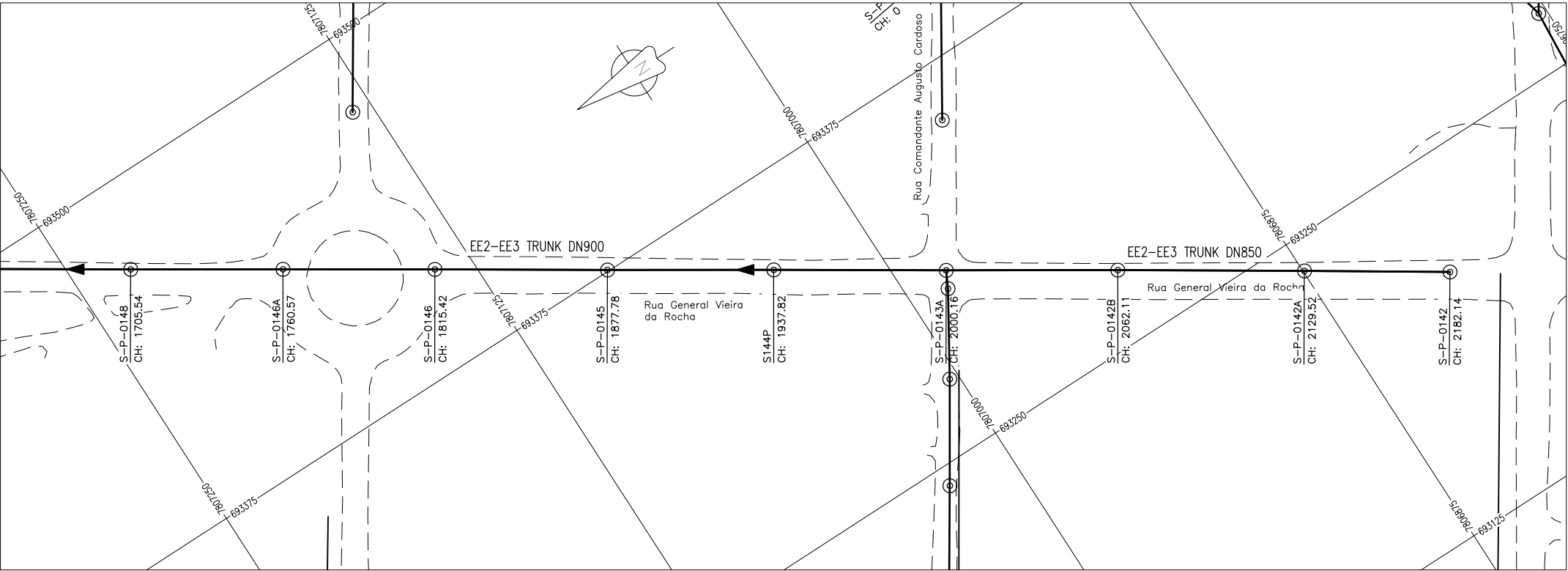
PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

TRUNK SEWERLINE EE2-EE3
PLAN AND PROFILE
SHEET 3 OF 4

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.04	Revision A B C D E F G H I J K L



CHAINAGE (m)	1705.56	1760.59	1815.44	1877.80	1937.84	2000.18	2062.13	2129.54	2182.14
MANHOLE TOP LEVEL (m amsl)	3.745	3.940	3.820	3.670	3.670	3.550	3.585	3.640	3.720
INVERT LEVEL (m amsl)	0.944	1.020	1.110	1.192	1.260	1.352	1.454	1.578	1.701
TRENCH DEPTH (m)	2.800	2.920	2.710	2.480	2.360	2.200	2.130	2.060	2.020
PIPE DETAILS	DN900 GLASS REINFORCED PIPE (GRP)					DN850 GLASS REINFORCED PIPE (GRP)			
BEDDING DETAILS	OPEN - CUT METHOD								
GRADIENT (m/km)	1.38	1.64	1.31	1.13	1.48	1.65	1.84	2.34	

TRUNK SEWERLINE EE2-EE3 PROFILE - SHT4

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÖNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

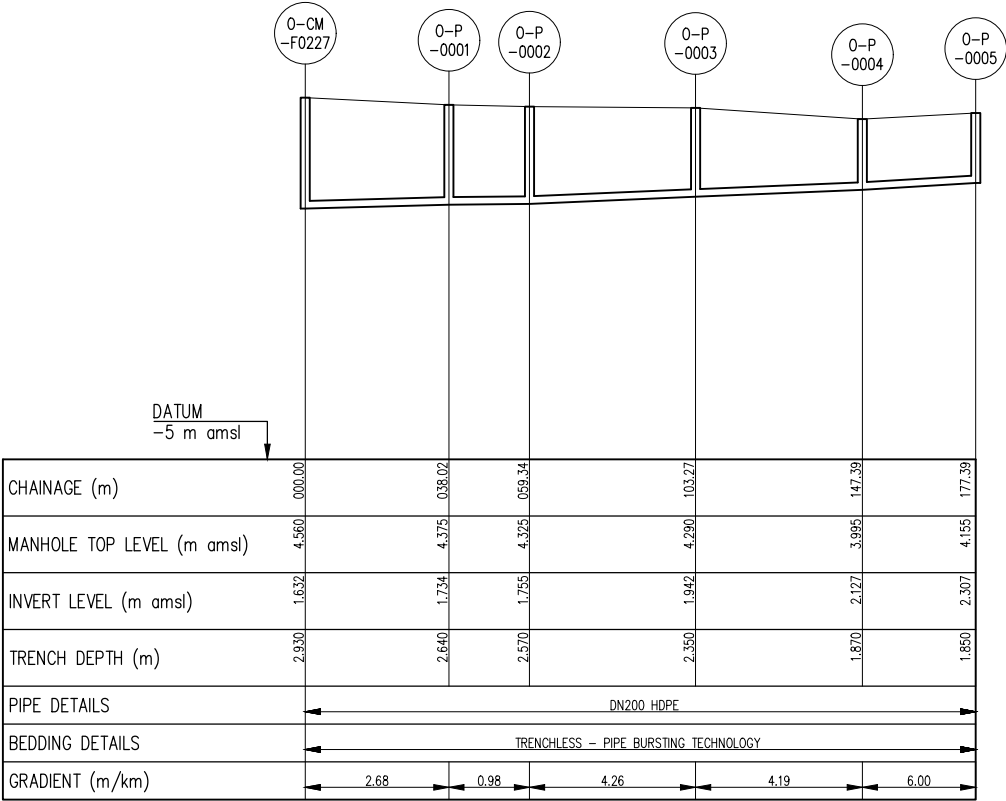
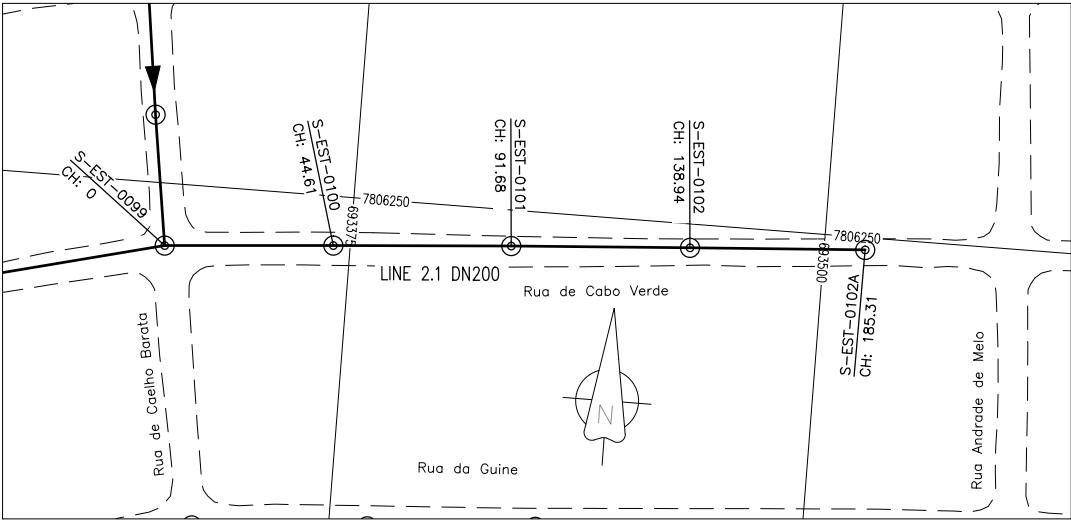
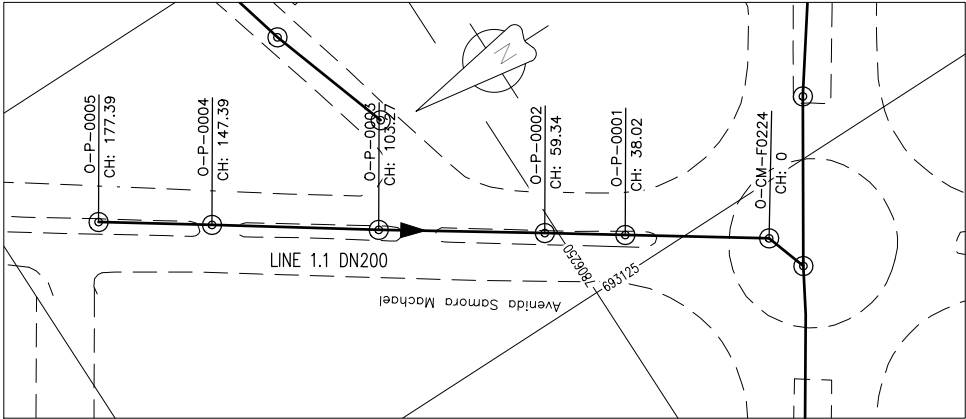
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

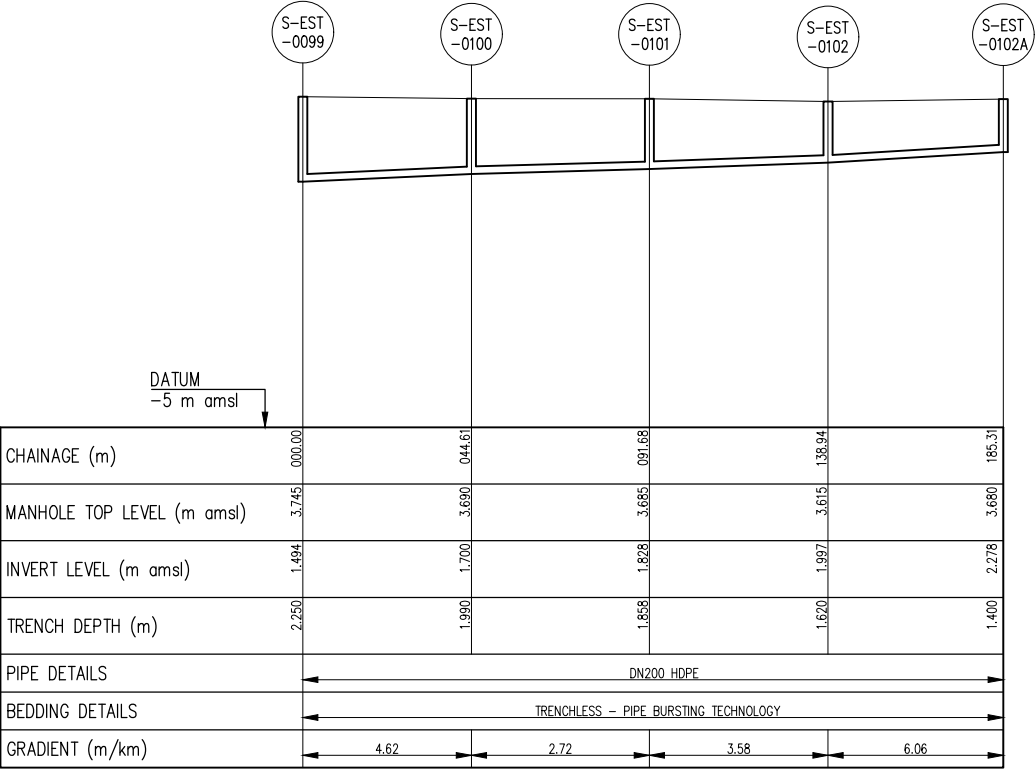
DRAWING TITLE:

TRUNK SEWERLINE EE2-EE3
PLAN AND PROFILE
SHEET 4 OF 4

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.04	Revision A B C D E F G H I J K L



COLLECTOR SEWERLINE 1.1 PROFILE



COLLECTOR SEWERLINE 2.1 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

PROJECT:

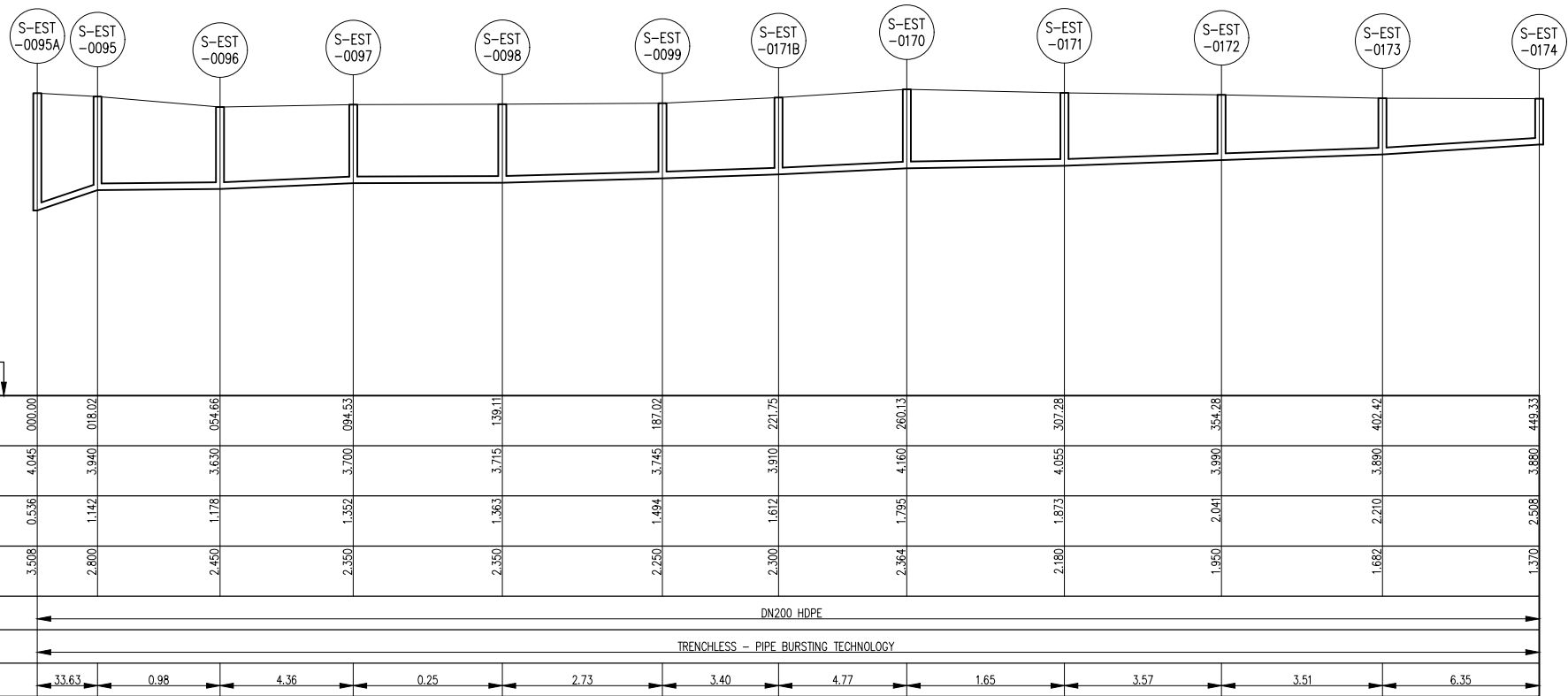
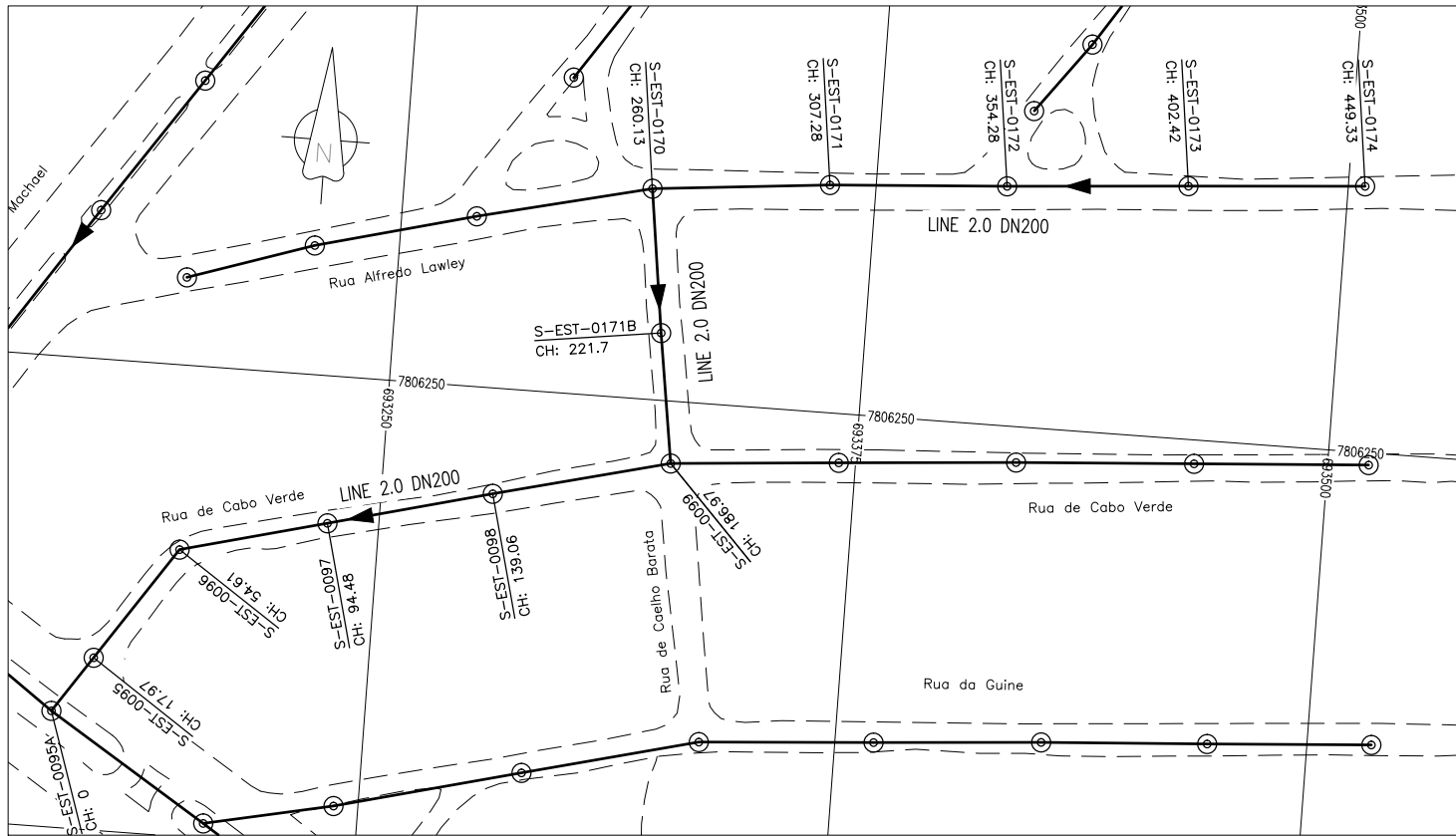
FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE1-EE2 (RUA CABO DE VERDE) COLLECTOR 1.1 AND 2.1 SEWERLINES
PLAN AND PROFILE - SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022

JOB No. MZSP00512E	DRAWING No.	Revision
EEAS/BSMP/MOZ/SN.CW.05		A B C D E F G H I J K L



COLLECTOR SEWERLINE 2.0 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

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30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

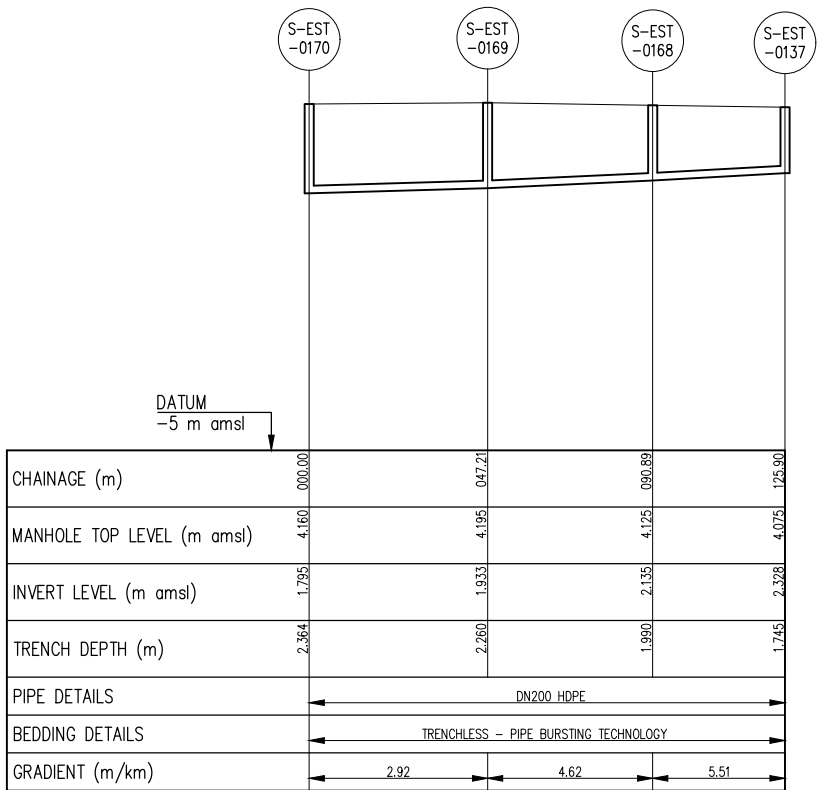
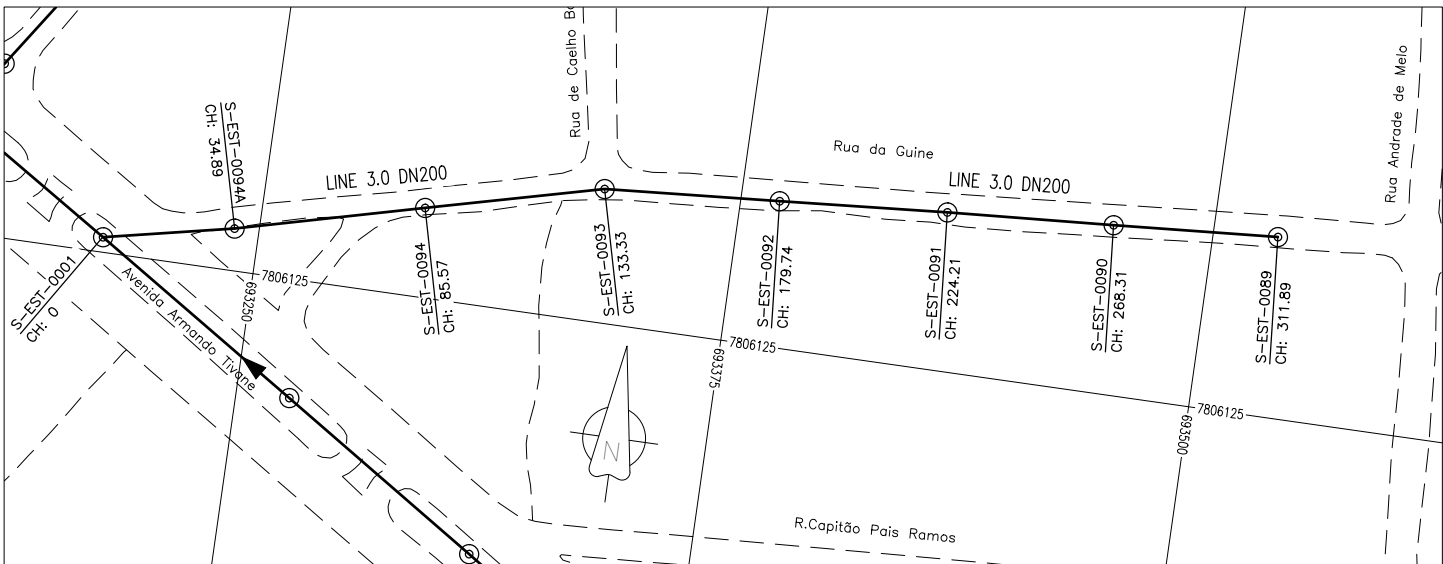
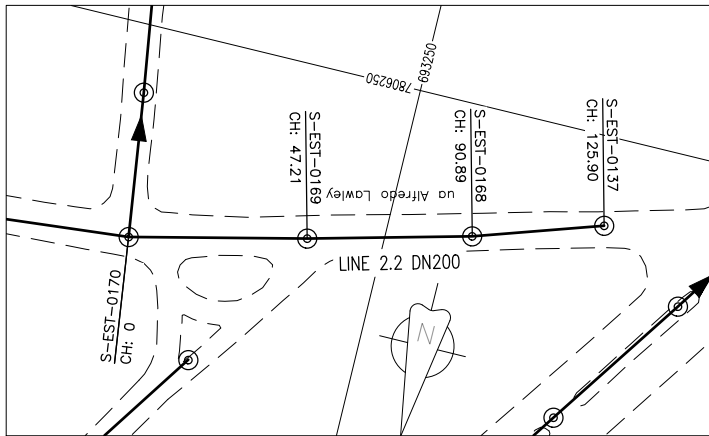
FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

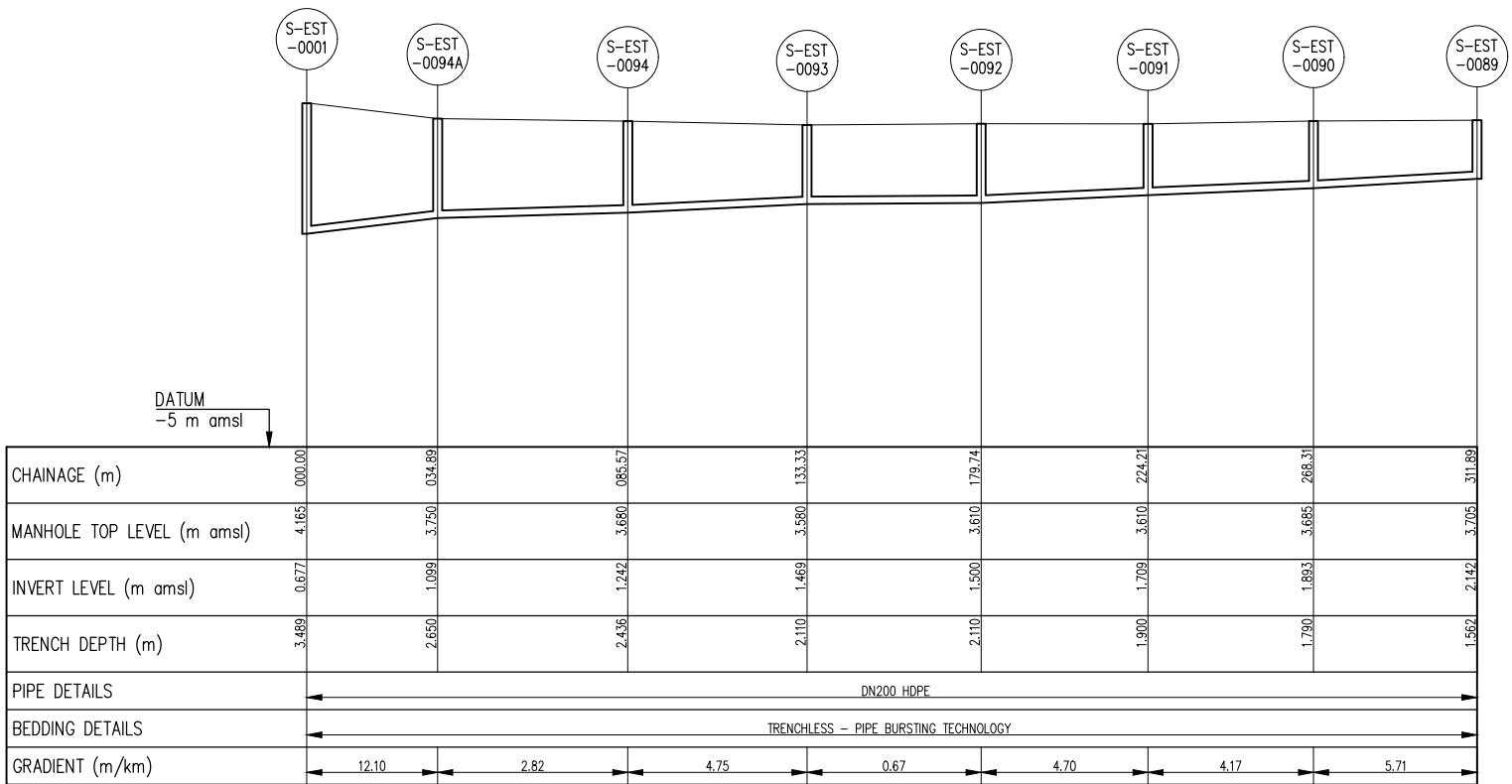
CATCHMENT EE1–EE2 (RUA CABO DE VERDE) COLLECTOR 2.0
PLAN AND PROFILE – SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022

JOB No. MZSP00512E							
DRAWING No.		Revision					
EEAS/BSMP/MOZ/SN.CW.06		A	B	C	D	E	F
		G	H	I	J	K	L



COLLECTOR SEWERLINE 2.2 PROFILE



COLLECTOR SEWERLINE 3.0 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

PROJECT:

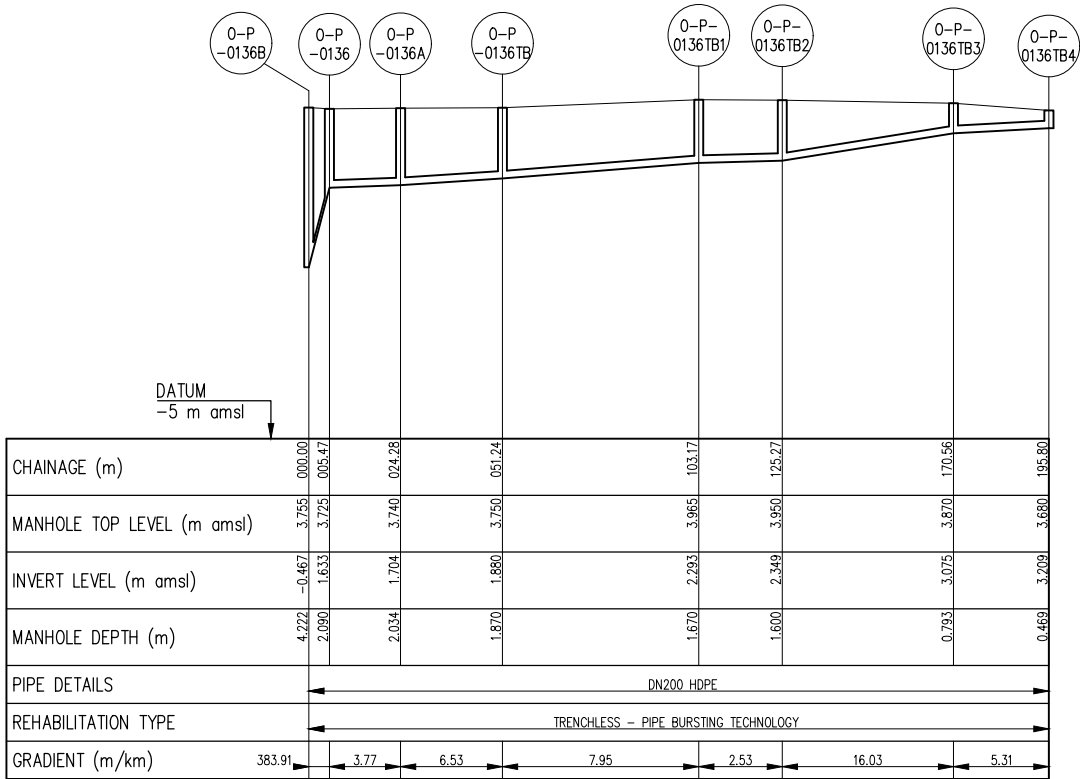
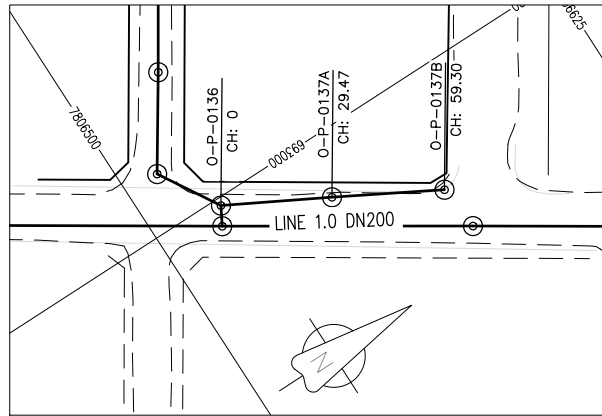
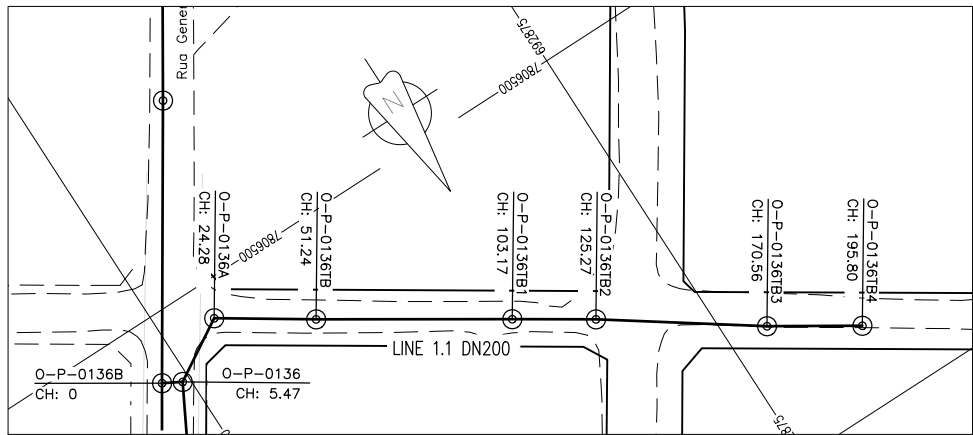
FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

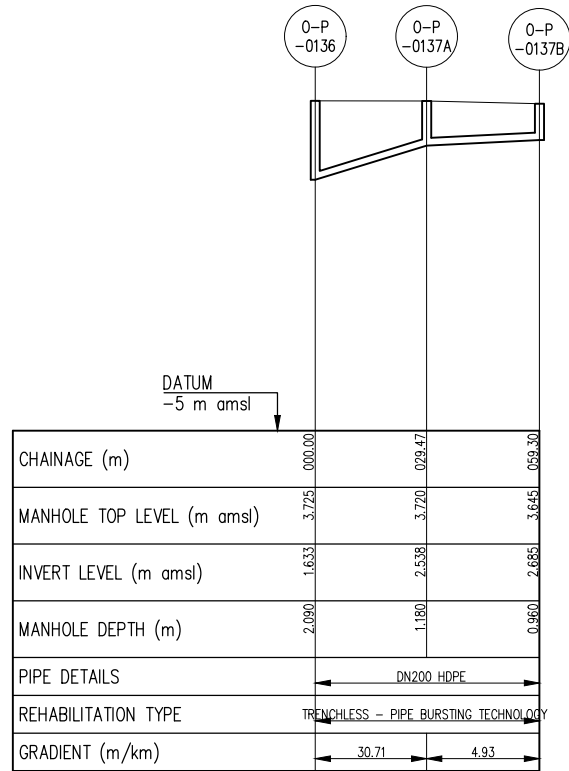
CATCHMENT EE1-EE2 (RUA CABO DE VERDE) COLLECTORS 2.2 AND 3.0
PLAN AND PROFILE - SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022

JOB No. MZSP00512E	DRAWING No.	Revision
EEAS/BSMP/MOZ/SN.CW.07		A B C D E F G H I J K L



COLLECTOR SEWERLINE 1.0 PROFILE



COLLECTOR SEWERLINE 1.1 PROFILE

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES
2. THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
3. THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
4. THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- ⊙ MANHOLE
- SEWER LINE
- - - ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÔNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

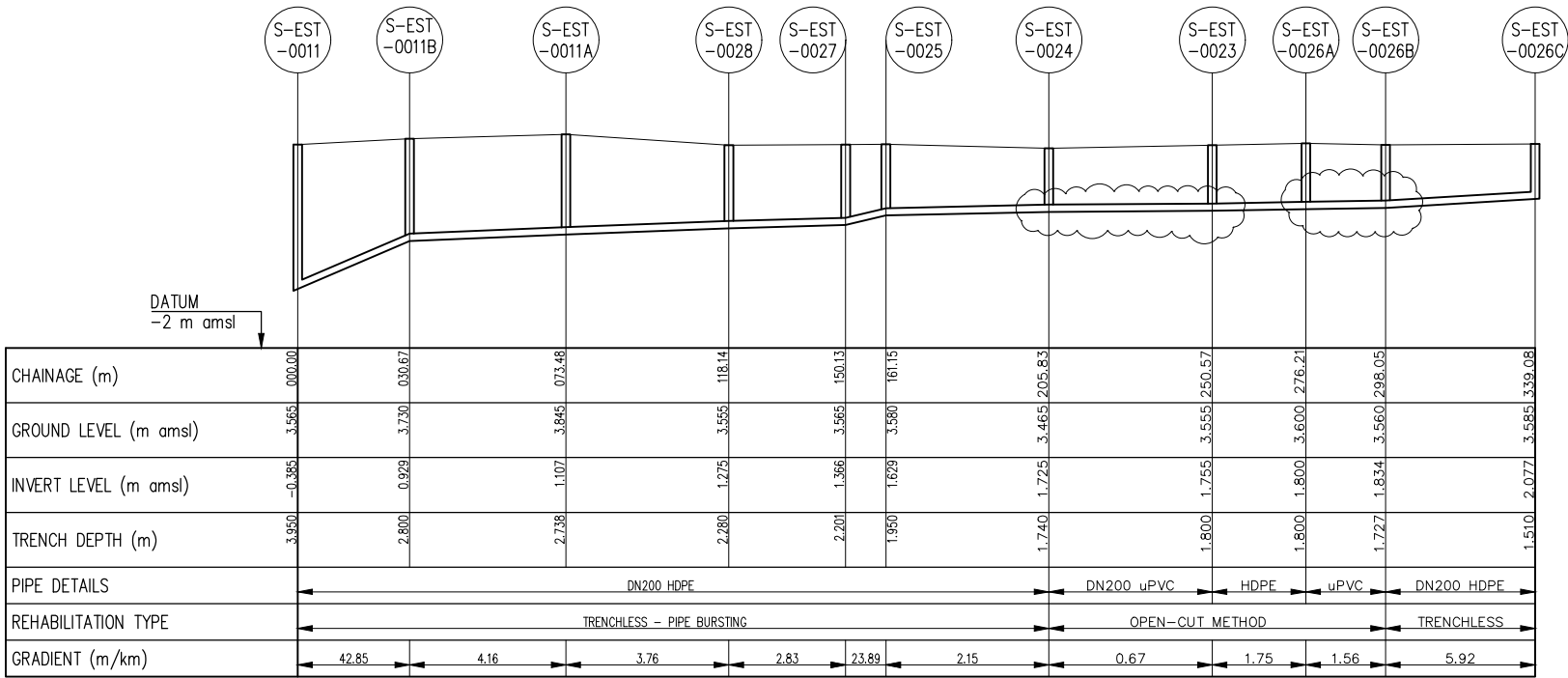
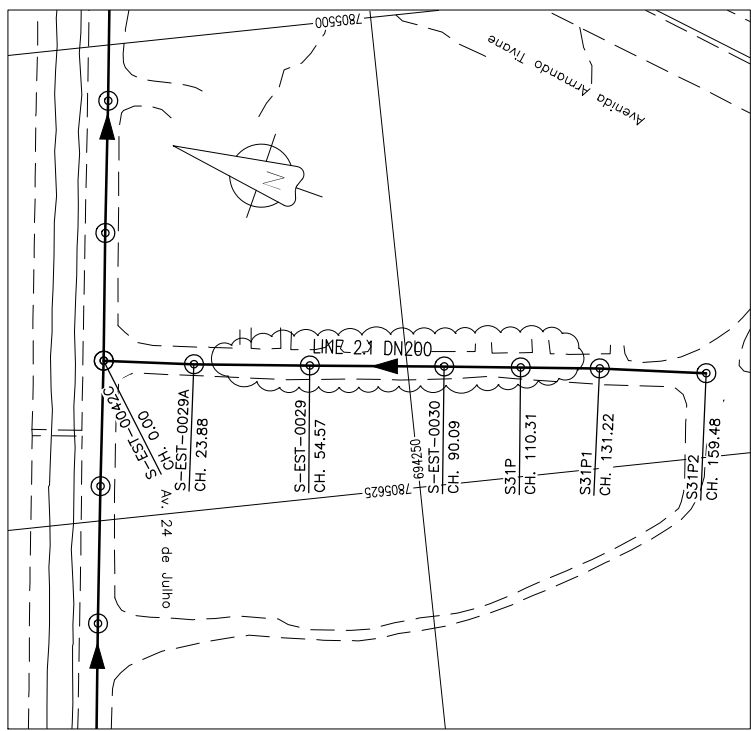
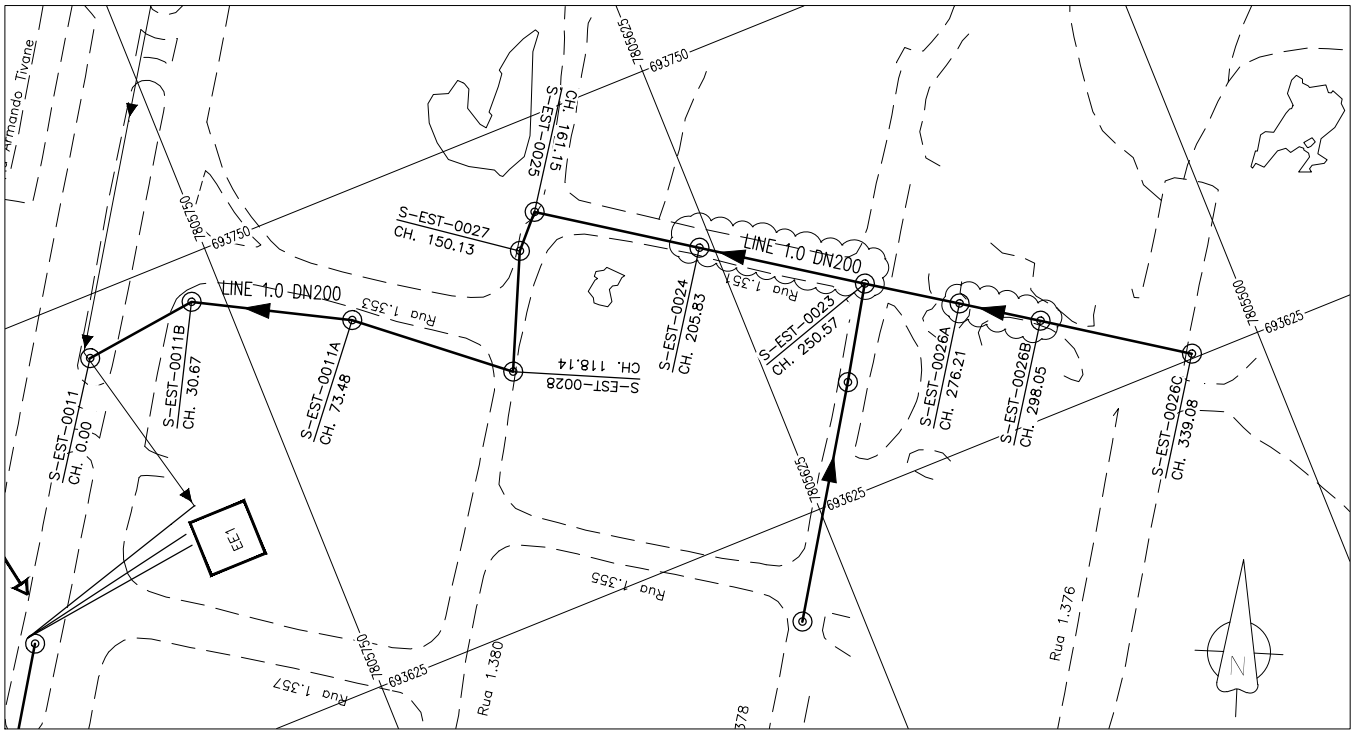
PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

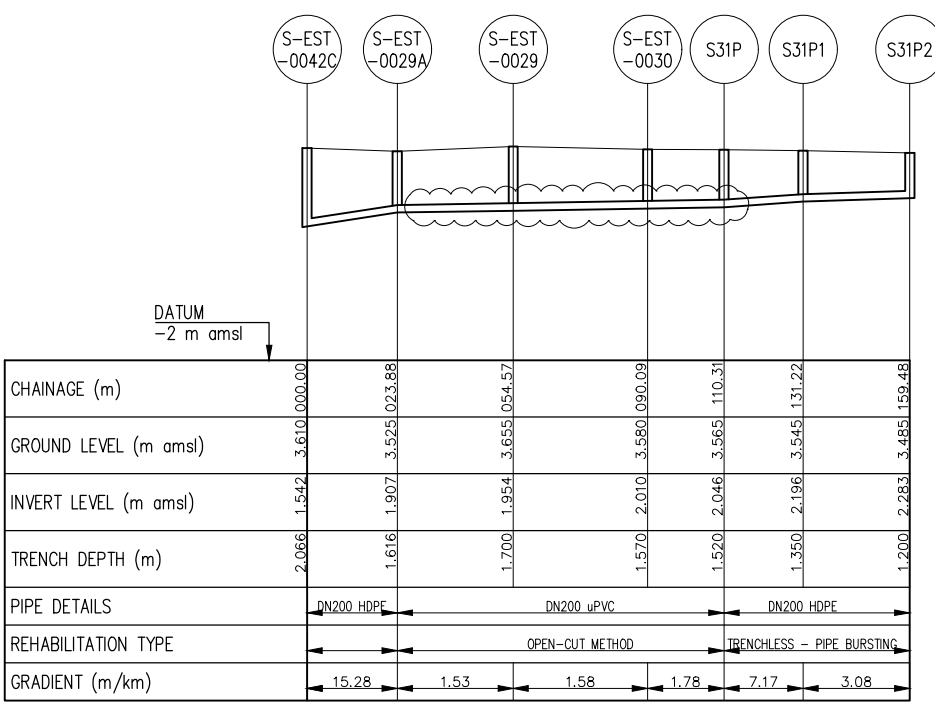
DRAWING TITLE:

CATCHMENT EE1–EE2 (RUA GENERAL VIEIRA DE ROCHA) COLLECTOR SEWERLINE 1.0 & 1.1
PLAN AND PROFILE – SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.08	Revision A B C D E F G H I J K L



SEWERLINE EE1-1.0 PROFILE



SEWERLINE EE1-2.1 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE
BEIRA

CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:



SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

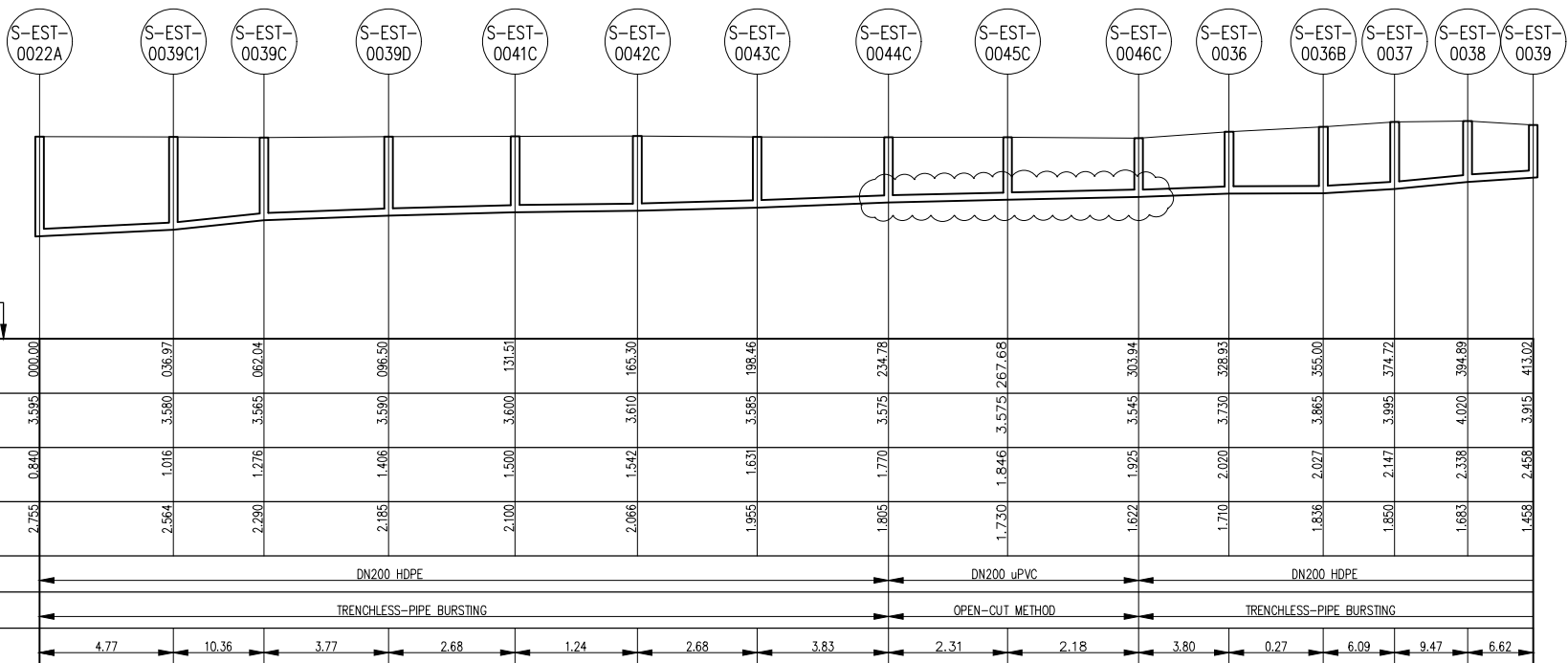
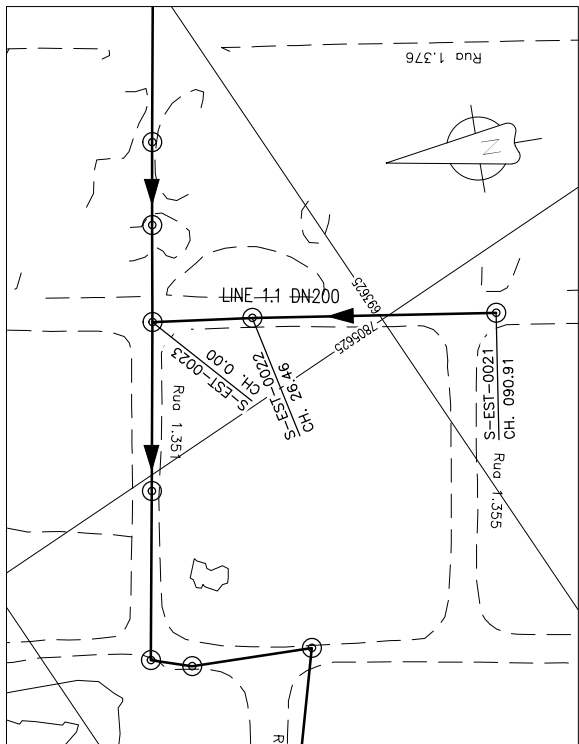
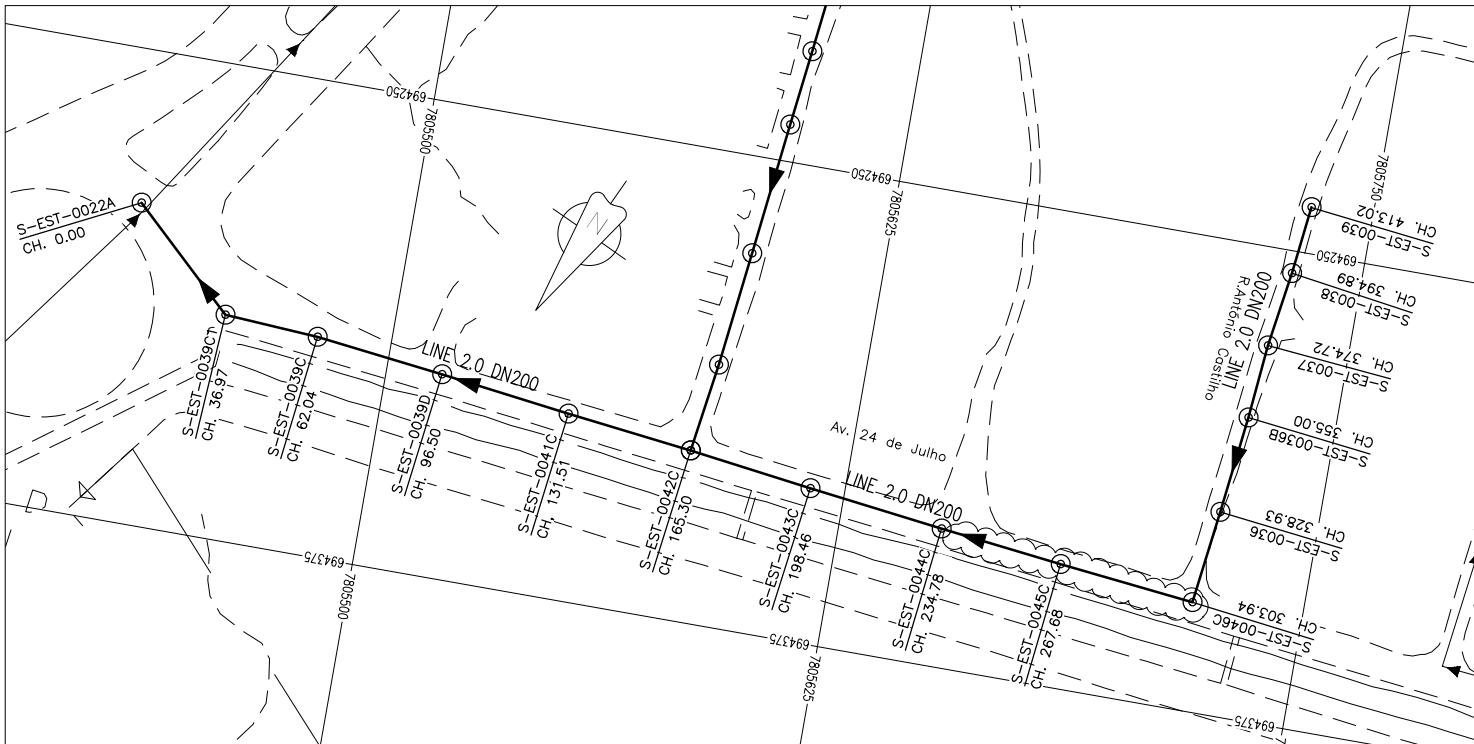
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

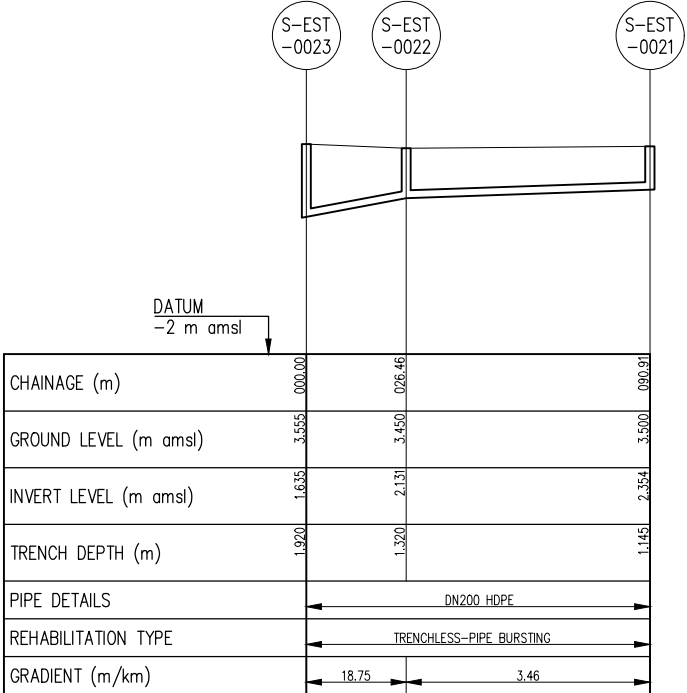
DRAWING TITLE:

CATCHMENT EE1
COLLECTOR 1.0 AND 2.1 PLAN AND PROFILE
SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: JG
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.09	Revision
	A B C D E F
	G H I J K L



SEWERLINE EE1-2.0 PROFILE



SEWERLINE EE1-1.1 PROFILE

- GENERAL NOTES:
- ALL DIMENSIONS IN METRES
 - THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
 - THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
 - THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:

THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB

AIAS

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO

SASB

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA VEOLIA SEURECA CONSULTING ENGINEERS
30 RUE MADELINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

PROJECT:

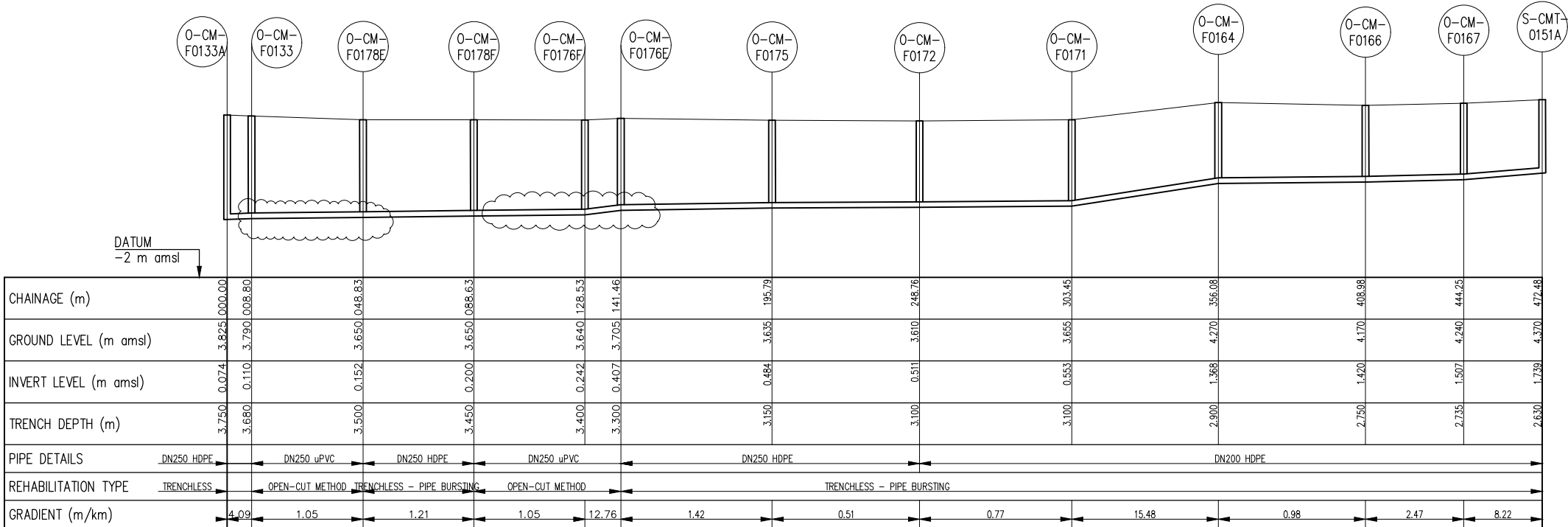
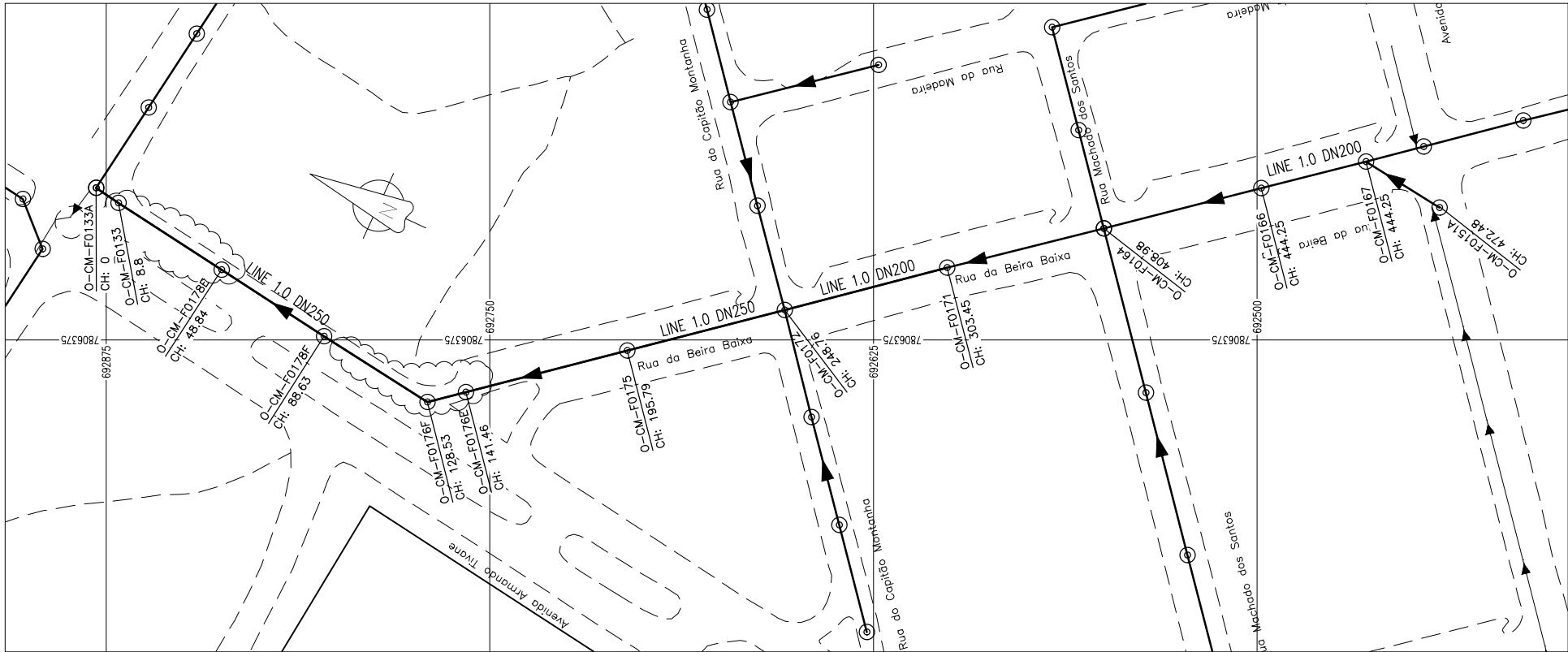
FWC BENEFICIARIES 2018-L0T 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE

SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE1
COLLECTOR 2.0 AND 1.1 PLAN AND PROFILE
SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: JG
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.10	Revision
	A B C D E F
	G H I J K L



SEWERLINE EE1-EE2 MAQUININO 1.0 PROFILE

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES
2. THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
3. THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
4. THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- ⊙ MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:
SEURECA VEOLIA SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

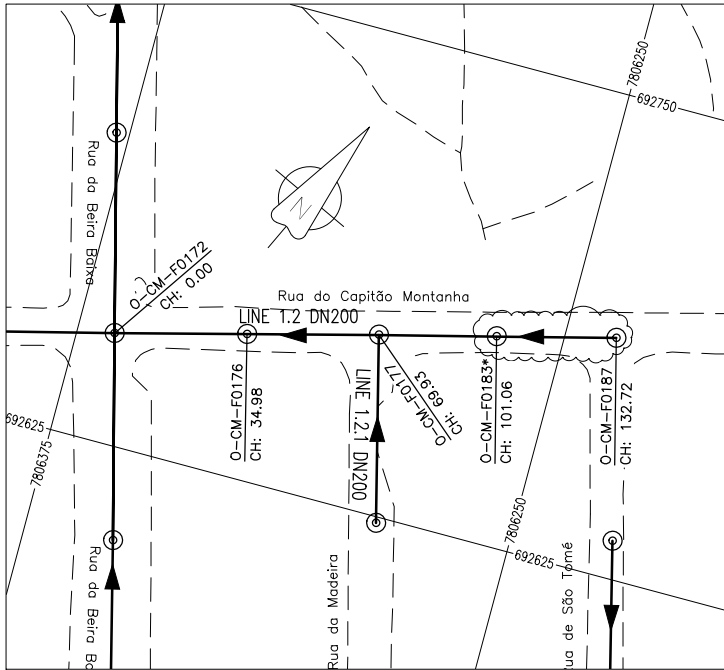
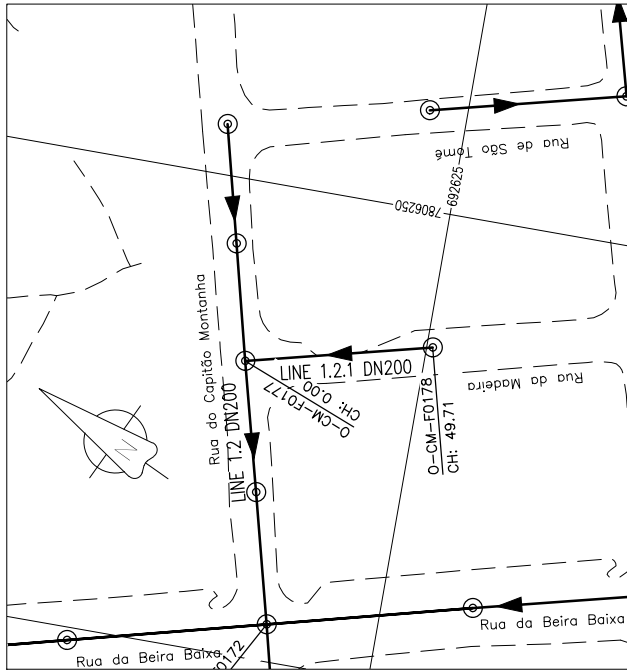
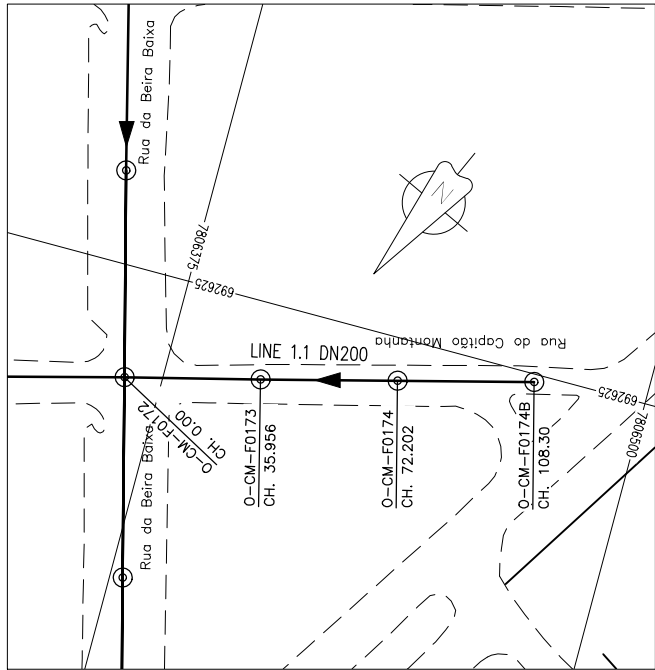
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

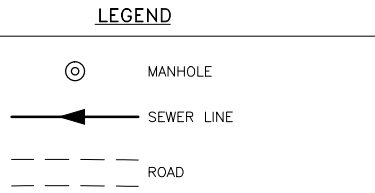
DRAWING TITLE:

CATCHMENT EE1-EE2 (MAQUININO)
COLLECTOR 1.0 PLAN AND PROFILE
SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: JG
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.11	Revision A B C D E F G H I J K L



- GENERAL NOTES:**
- ALL DIMENSIONS IN METRES
 - THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
 - THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
 - THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL



REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

 **PLANET S.A.**
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

 **SEURECA CONSULTING ENGINEERS**
30 RUE MADELINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

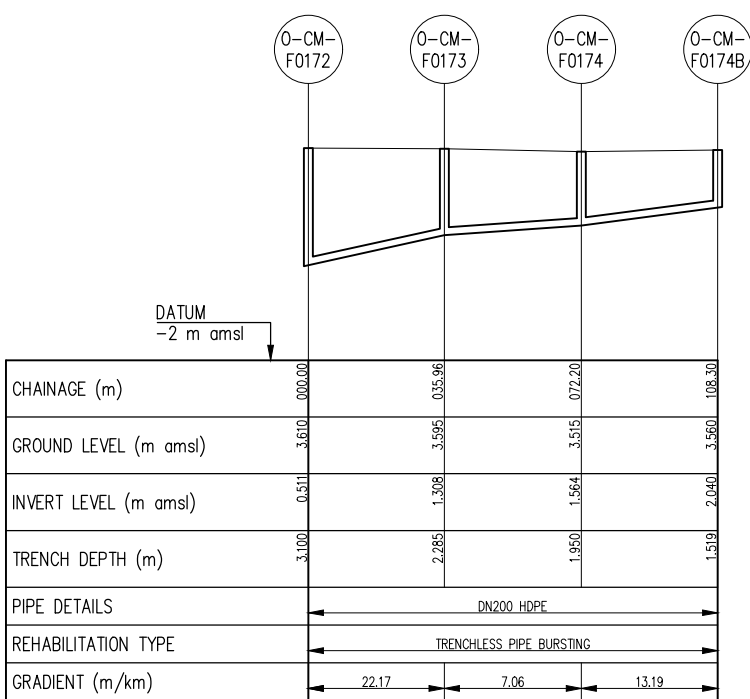
FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE

SPECIFIC CONTRACT N° 300009970

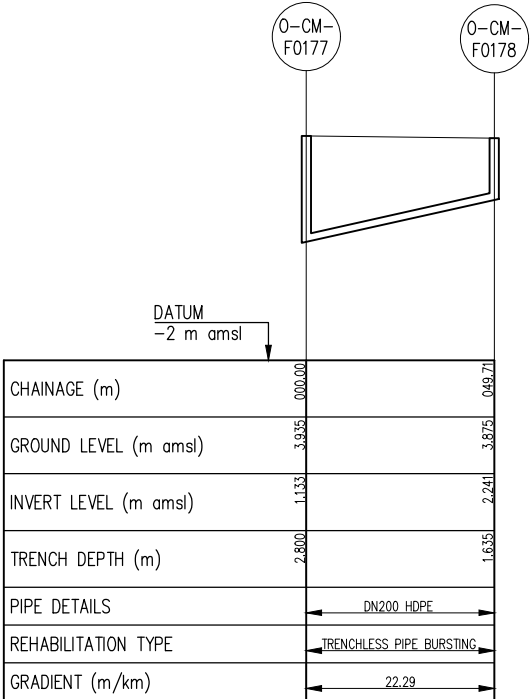
DRAWING TITLE:

CATCHMENT EE1–EE2 (MAQUININO)
COLLECTOR 1.0, 1.2.1 & 1.2 PLAN & PROFILE
SHEET 1 OF 1

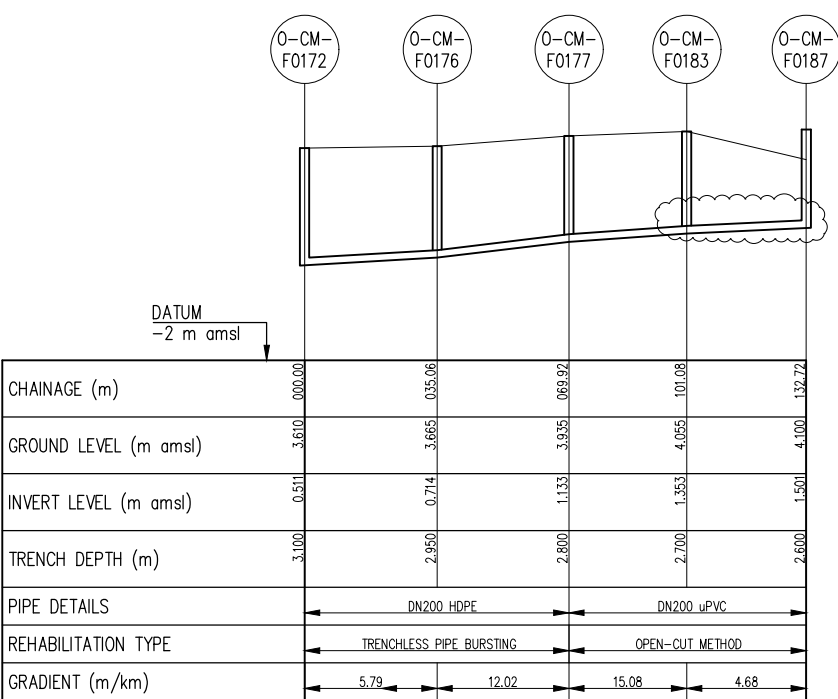
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CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.12	Revision
	A B C D E F
	G H I J K L



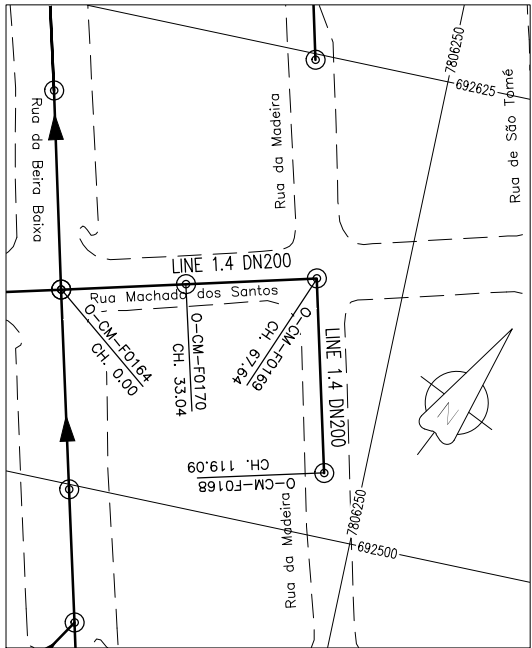
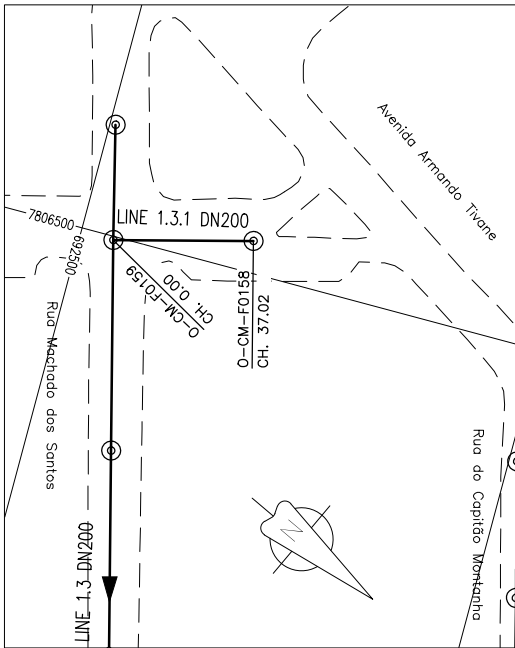
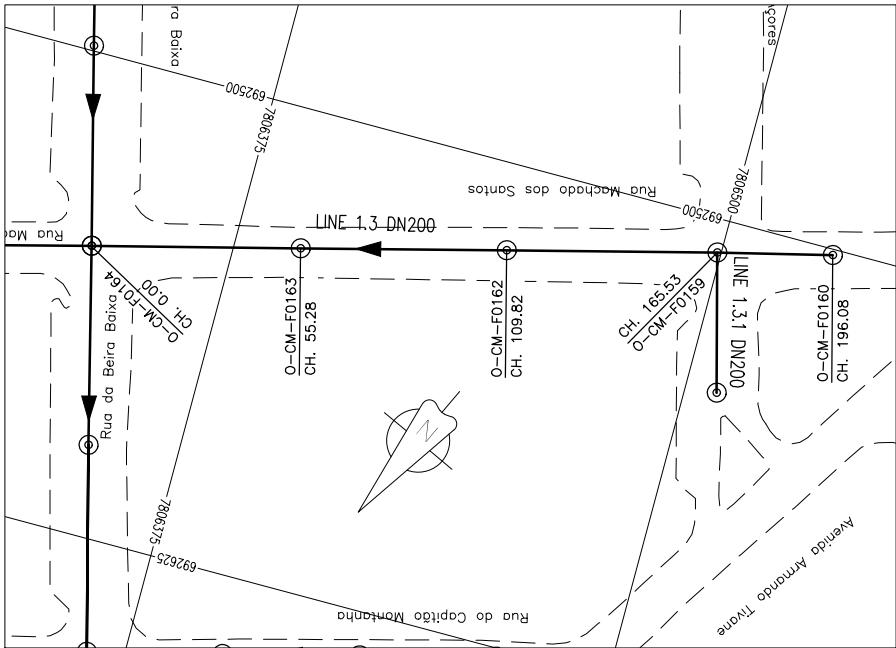
EE1–EE2 MAQUININO 1.1 PROFILE



EE1–EE2 MAQUININO 1.2.1 PROFILE



EE1–EE2 MAQUININO 1.2 PROFILE



GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



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CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

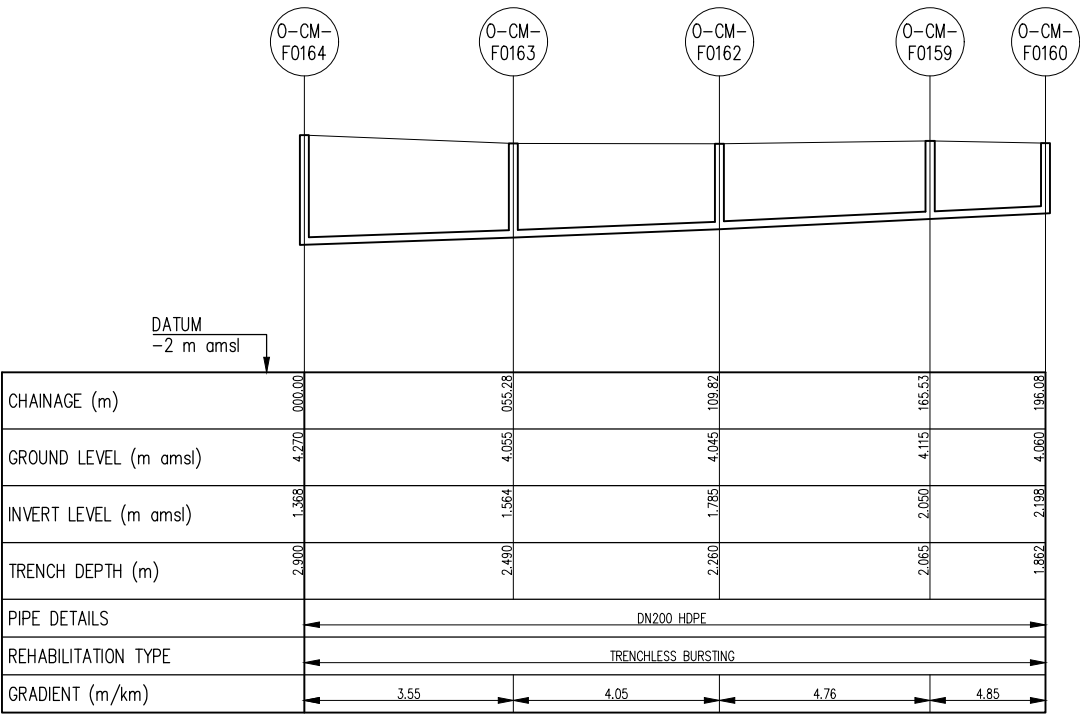
PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

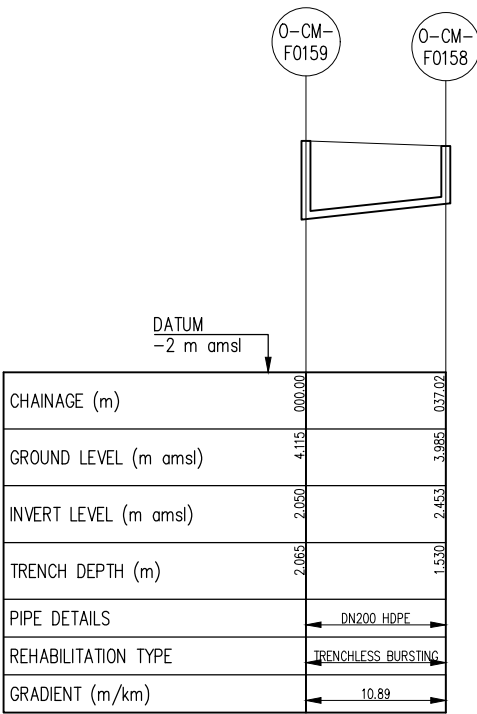
DRAWING TITLE:

CATCHMENT EE1–EE2 (MAQUININO)
COLLECTOR 1.3, 1.3.1 & 1.4 PLAN & PROFILE
SHEET 1 OF 1

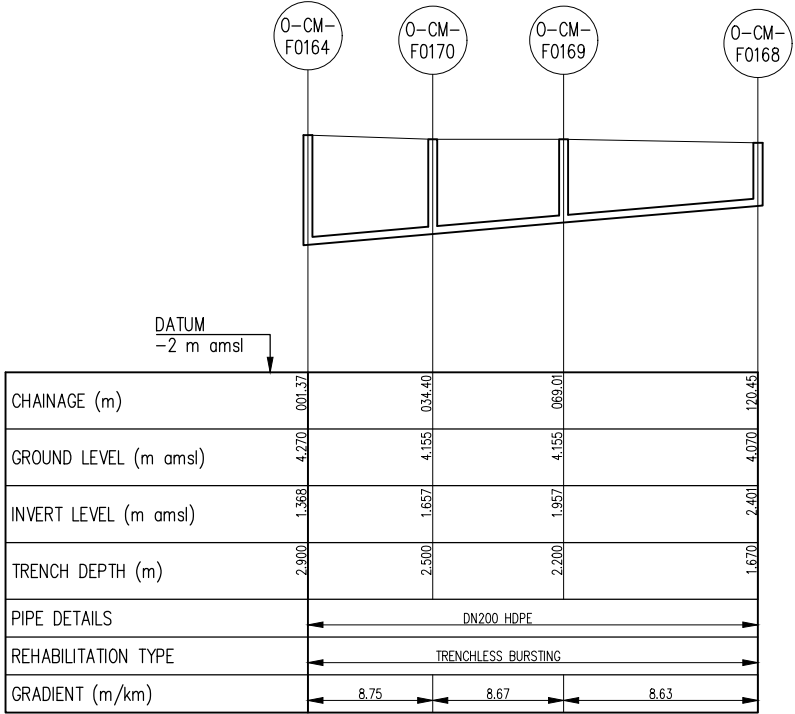
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SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.13	Revision A B C D E F G H I J K L



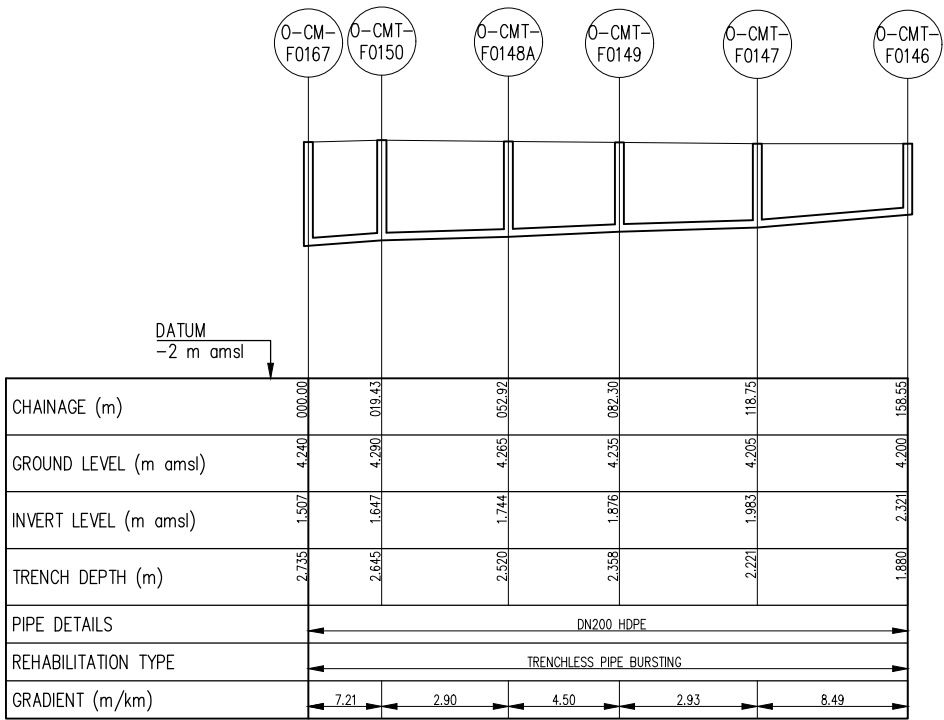
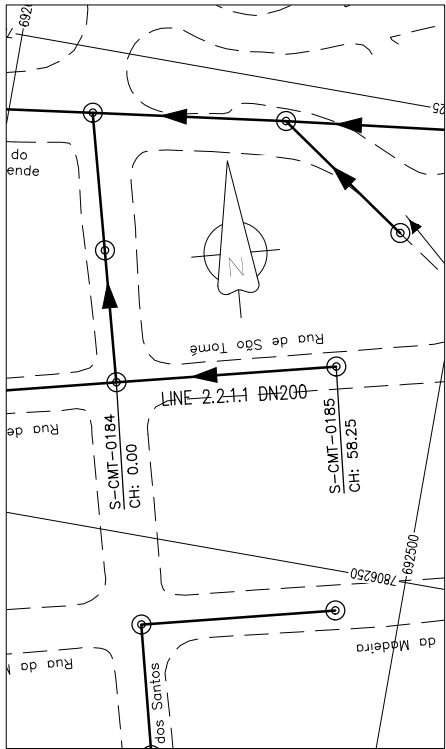
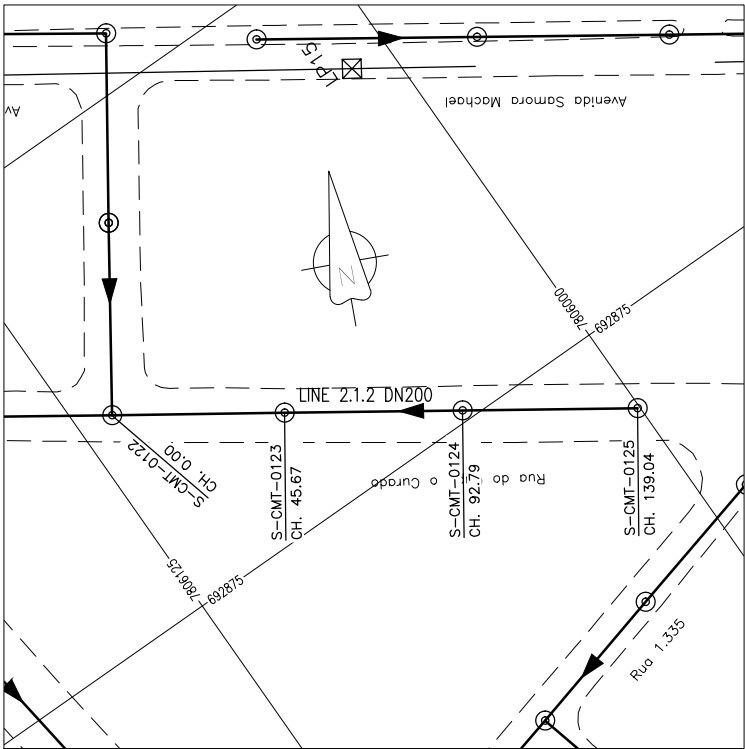
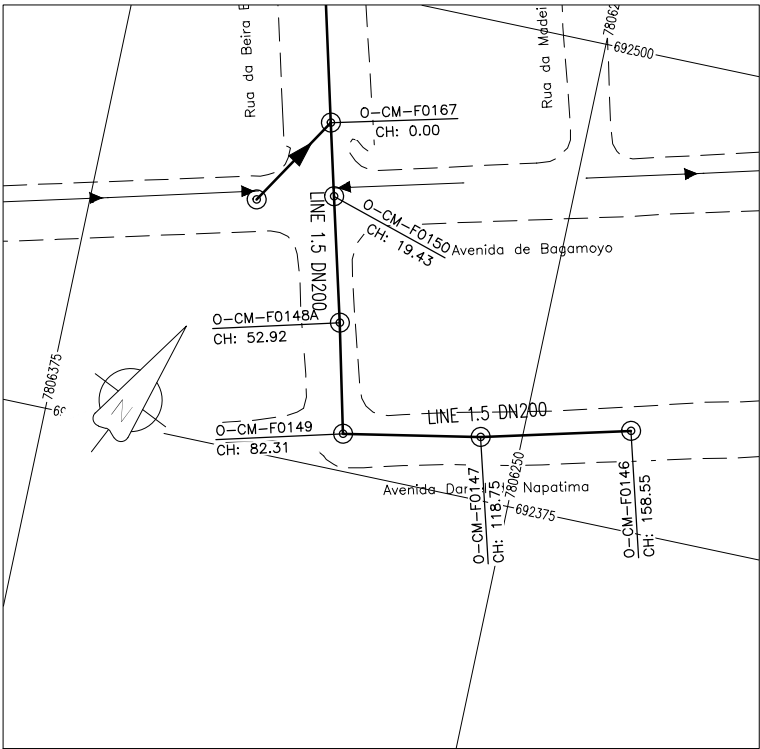
EE1–EE2 MAQUININO 1.3 PROFILE



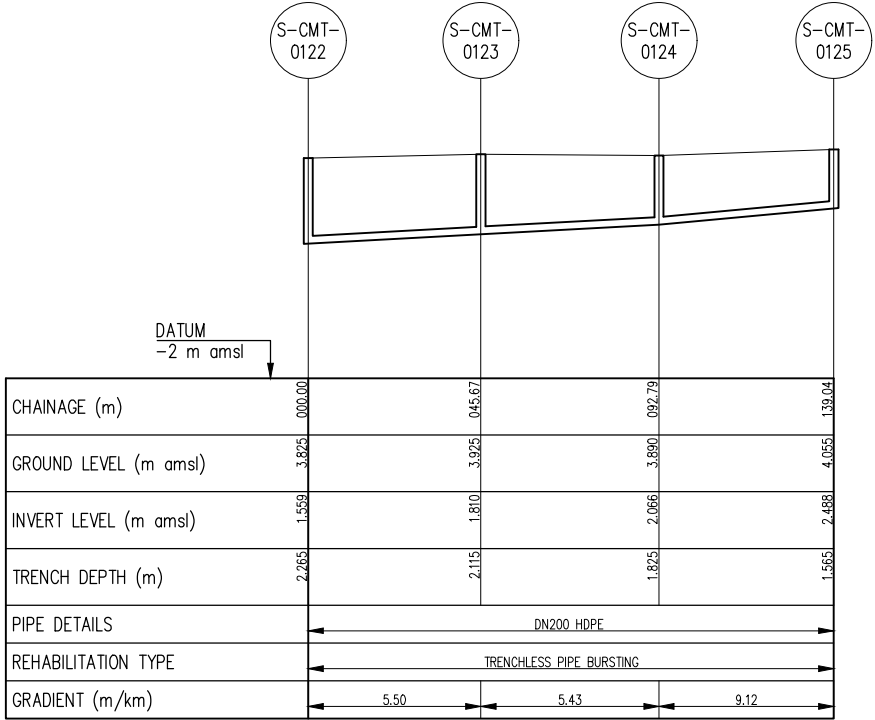
EE1–EE2 MAQUININO 1.3.1 PROFILE



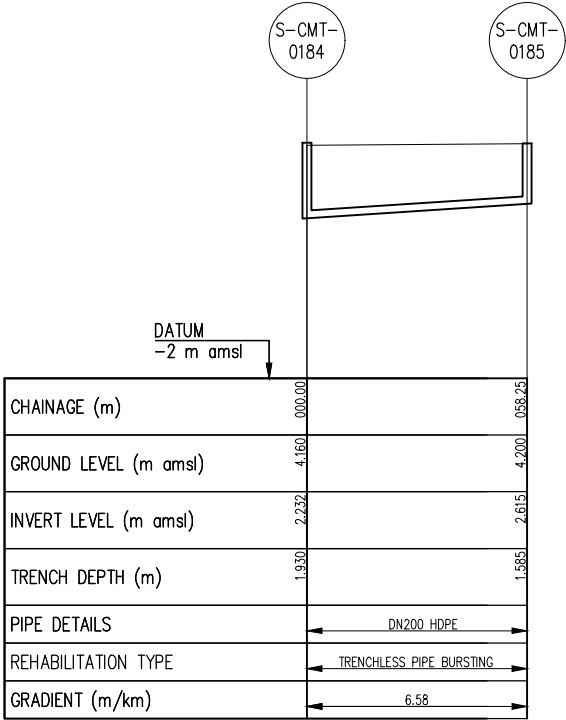
EE1–EE2 MAQUININO 1.4 PROFILE



SEWERLINE EE1-2 MAQUININO 1.5 PROFILE



SEWERLINE EE1-2 MAQUININO 2.1.2 PROFILE



SEWERLINE EE1-2 MAQUININO 2.2.1.1 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:



SEURECA CONSULTING ENGINEERS
30 RUE MADELINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

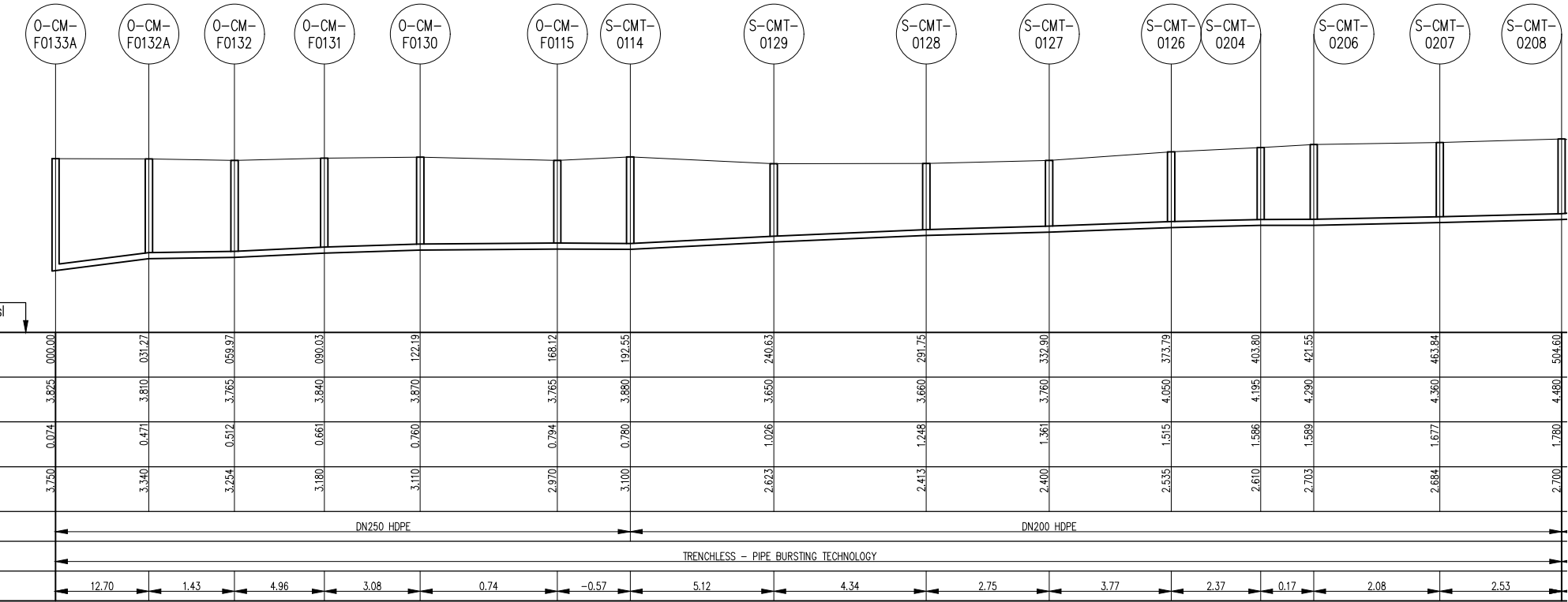
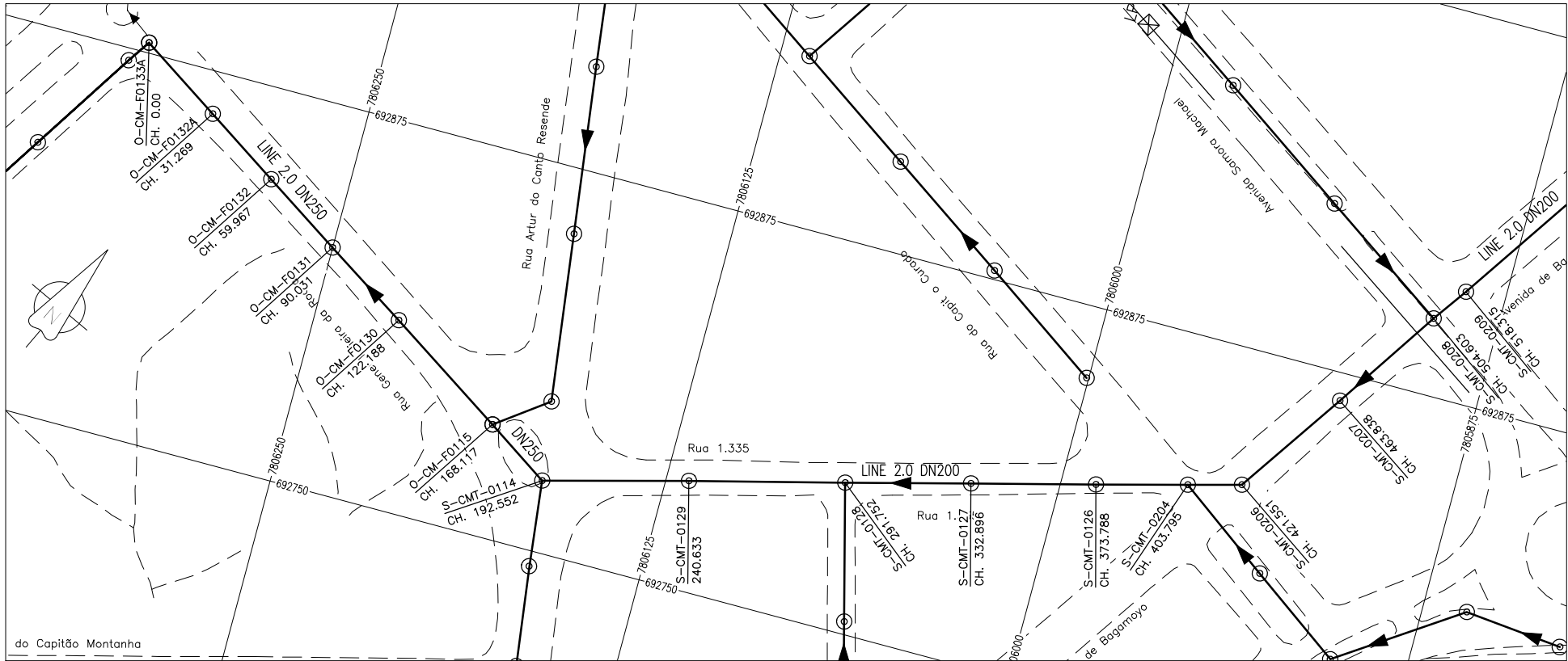
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE1-EE2 (MAQUININO)
COLLECTOR 1.5, 2.1.2 AND 2.2.1.1
PLAN AND PROFILE SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: JG
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.14	Revision A B C D E F G H I J K L



SEWERLINE EE1-EE2 MAQUININO 2.0 PROFILE 1

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES
2. THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
3. THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
4. THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- ⊙ MANHOLE
- SEWER LINE
- - - ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



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CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

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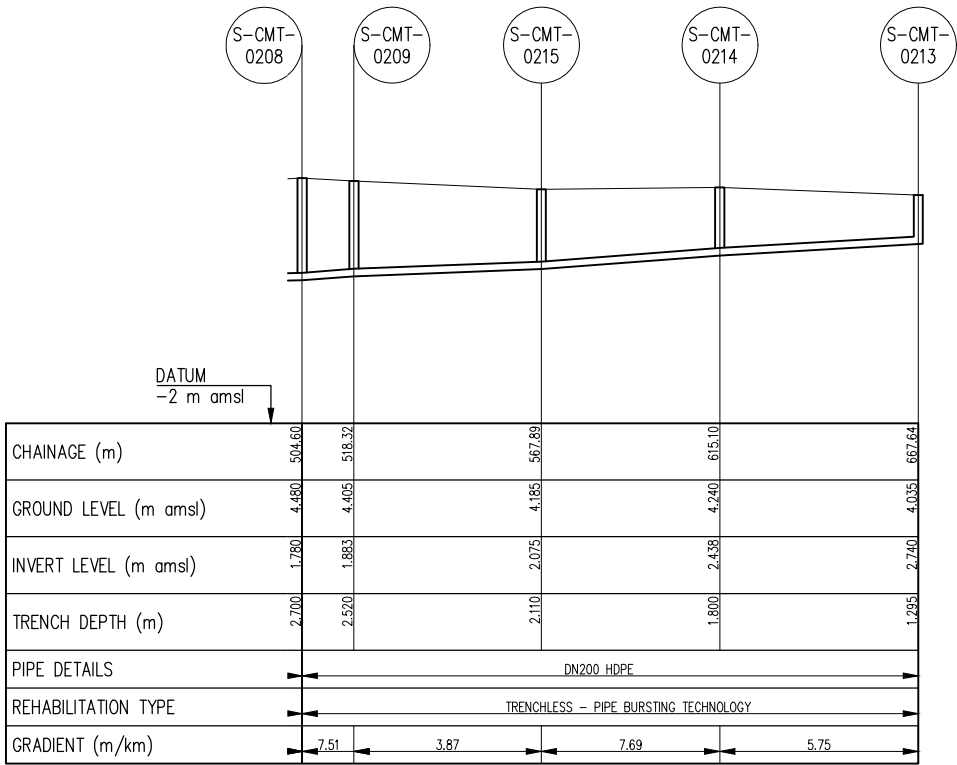
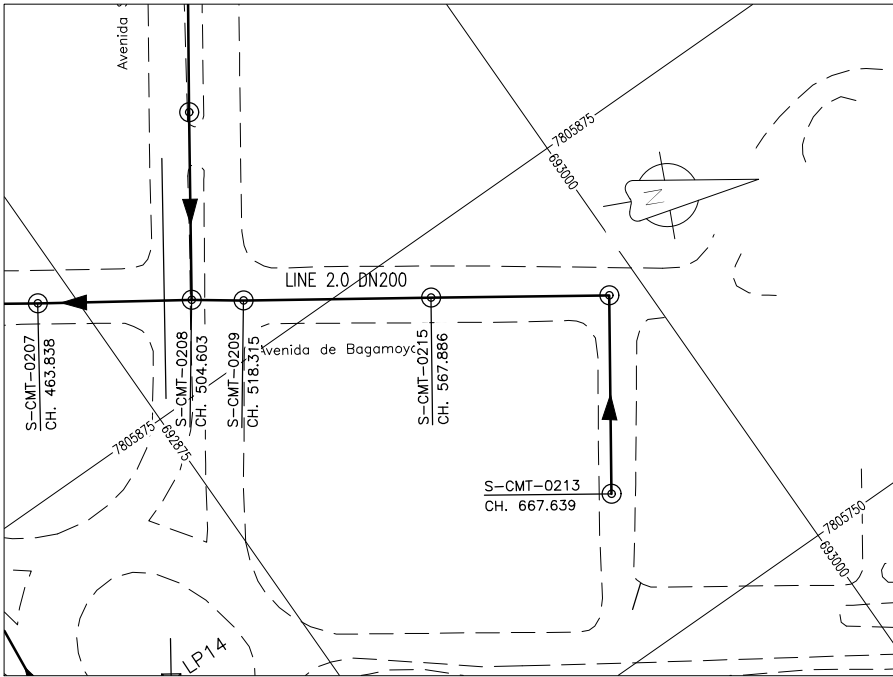
PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE1-EE2 (MAQUININO)
COLLECTOR 2.0 PLAN AND PROFILE
SHEET 1 OF 2

DESIGN BY: PM	DRAWN BY: JG
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.15	Revision
	A B C D E F
	G H I J K L



SEWERLINE EE1-EE2 MAQUININO 2.0 PROFILE 2

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



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PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
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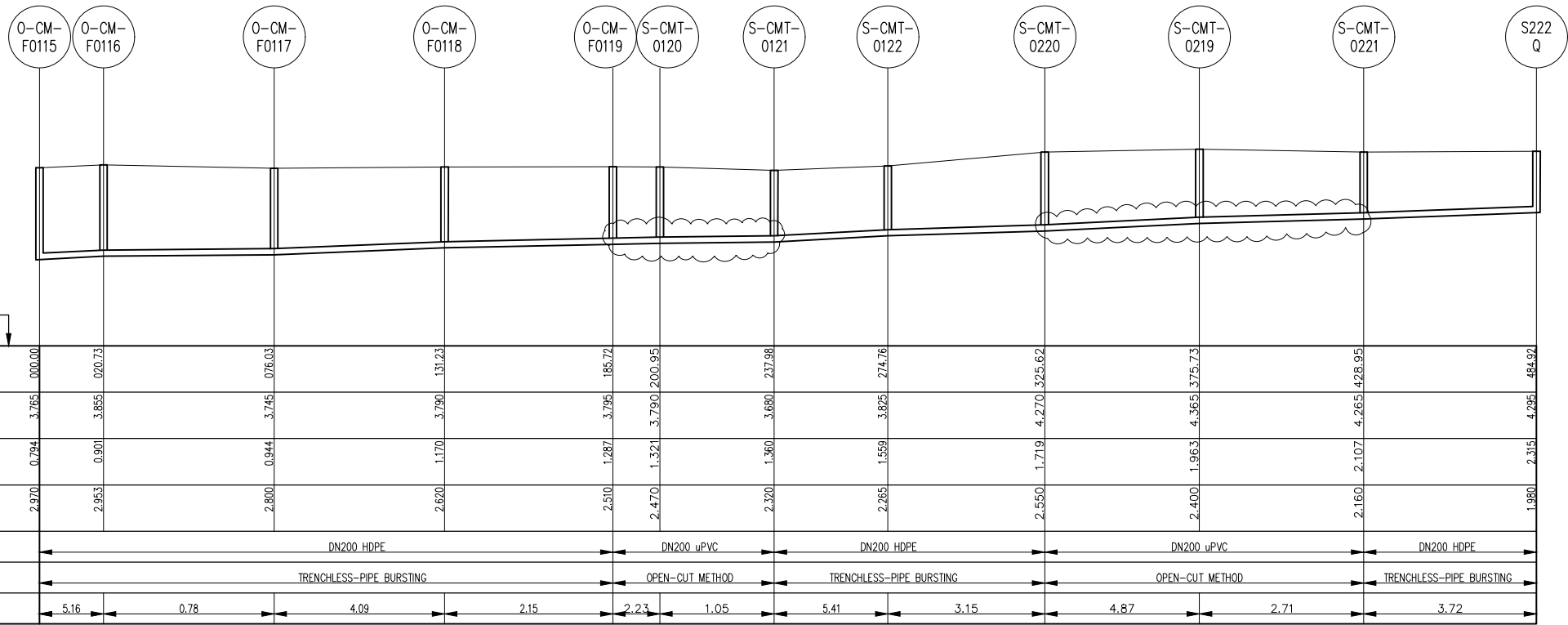
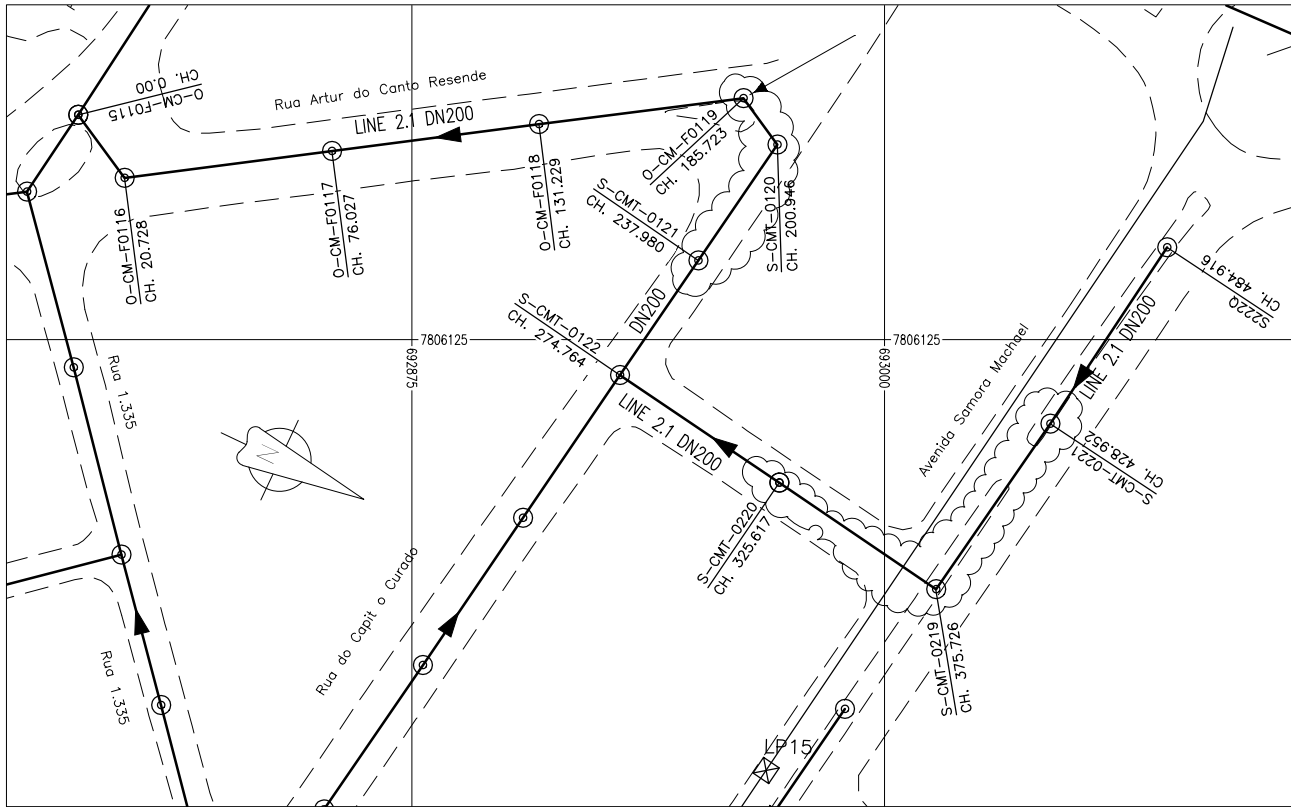
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE1-EE2 (MAQUININO)
COLLECTOR 2.0 PLAN AND PROFILE
SHEET 2 OF 2

DESIGN BY: PM	DRAWN BY: JG
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.15	Revision A B C D E F G H I J K L



CHAINAGE (m)	000.00	020.73	076.03	131.23	185.72	200.95	237.98	274.76	325.62	375.73	428.95	484.94
GROUND LEVEL (m amsl)	3.765	3.855	3.745	3.790	3.795	3.790	3.690	3.825	4.270	4.365	4.265	4.265
INVERT LEVEL (m amsl)	0.794	0.901	0.944	1.170	1.287	1.321	1.360	1.559	1.719	1.963	2.107	2.315
TRENCH DEPTH (m)	2.970	2.953	2.800	2.620	2.510	2.470	2.320	2.265	2.550	2.400	2.160	1.980
PIPE DETAILS	DN200. HDPE				DN200. uPVC		DN200. HDPE		DN200. uPVC		DN200. HDPE	
REHABILITATION TYPE	TRENCHLESS-PIPE BURSTING				OPEN-CUT METHOD		TRENCHLESS-PIPE BURSTING		OPEN-CUT METHOD		TRENCHLESS-PIPE BURSTING	
GRADIENT (m/km)	5.16	0.78	4.09	2.15	2.23	1.05	5.41	3.15	4.87	2.71	3.72	

SEWERLINE EE1-EE2 MAQUININO 2.1 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
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LEGEND

- ⊙ MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

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BENEFICIARY: AIAS, SASB



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MAPUTO



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CONSULTANTS:

PLANET PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:

SEURECA VEOLIA SEURECA CONSULTING ENGINEERS
30 RUE MADELINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

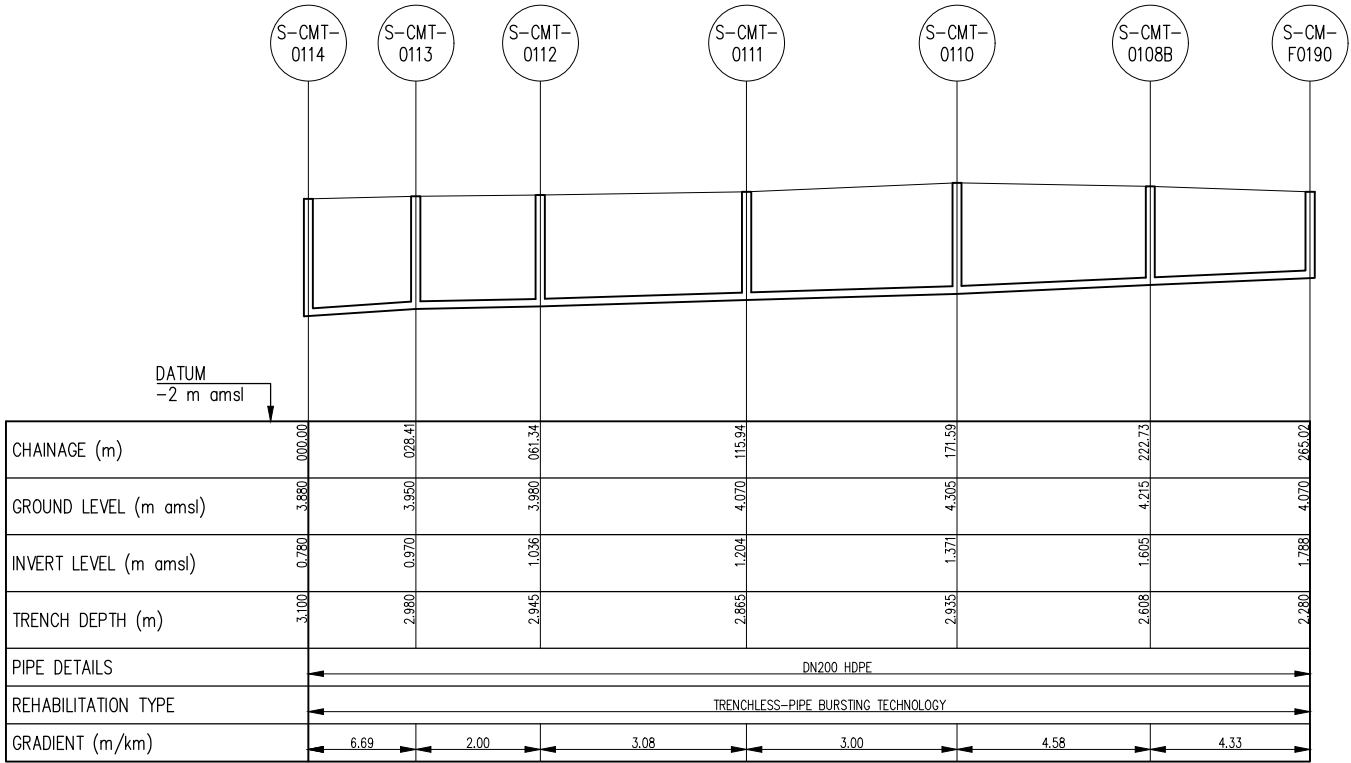
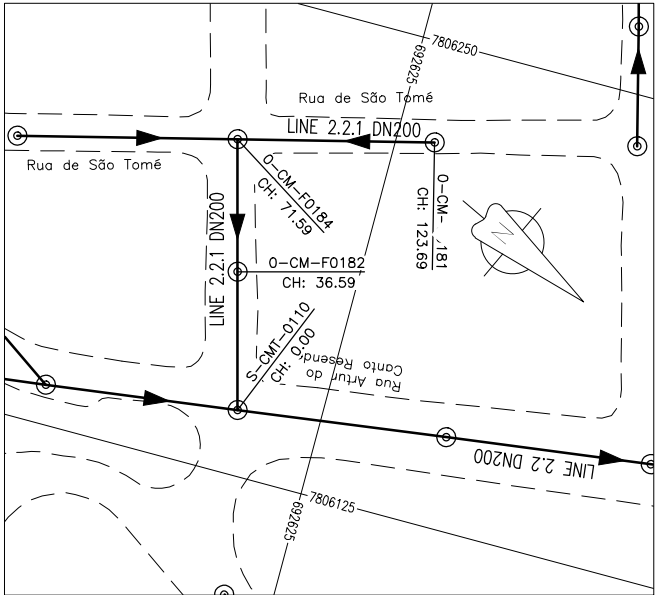
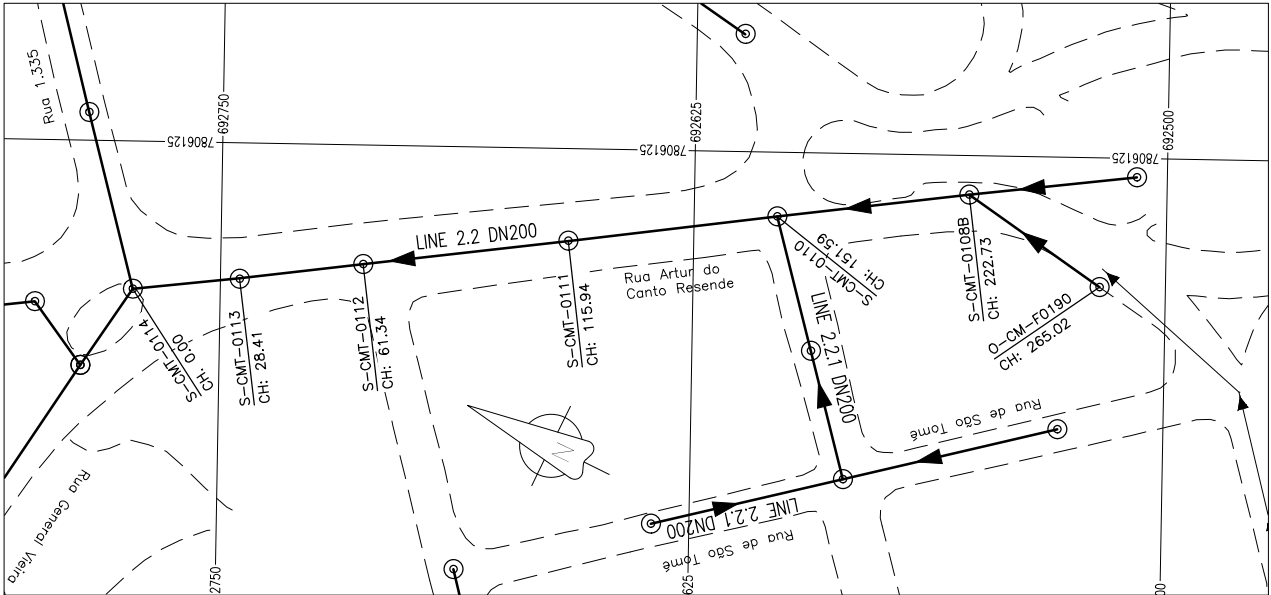
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

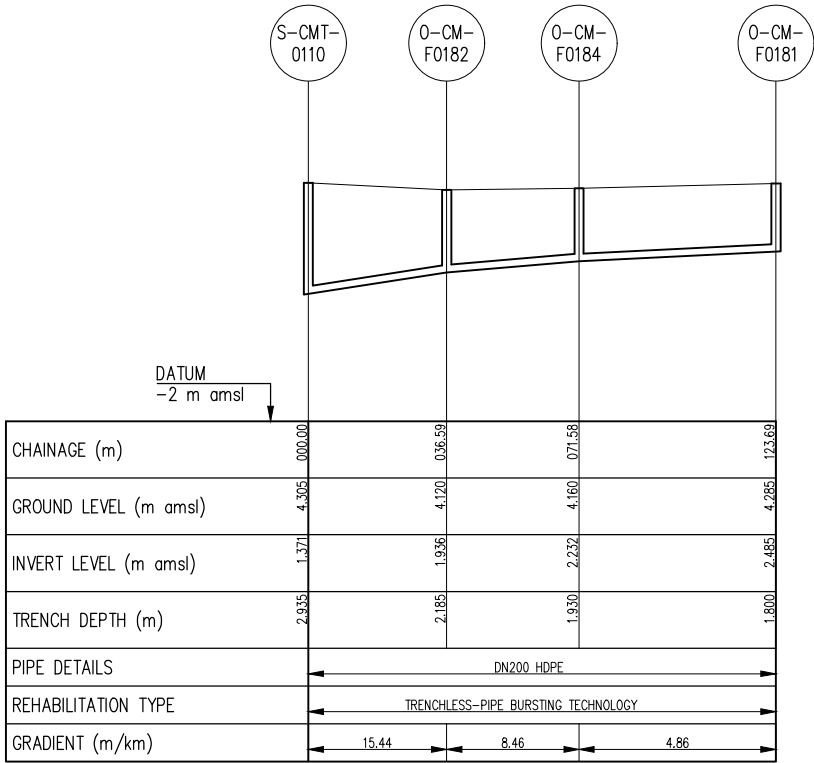
DRAWING TITLE:

CATCHMENT EE1-EE2 (MAQUININO)
COLLECTOR 2.1 PLAN AND PROFILE
SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: JG
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.16	Revision A B C D E F G H I J K L



SEWERLINE EE1-EE2 MAQUININO 2.2 PROFILE



SEWERLINE EE1-EE2 MAQUININO 2.2.1 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
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MAPUTO



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CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

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30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
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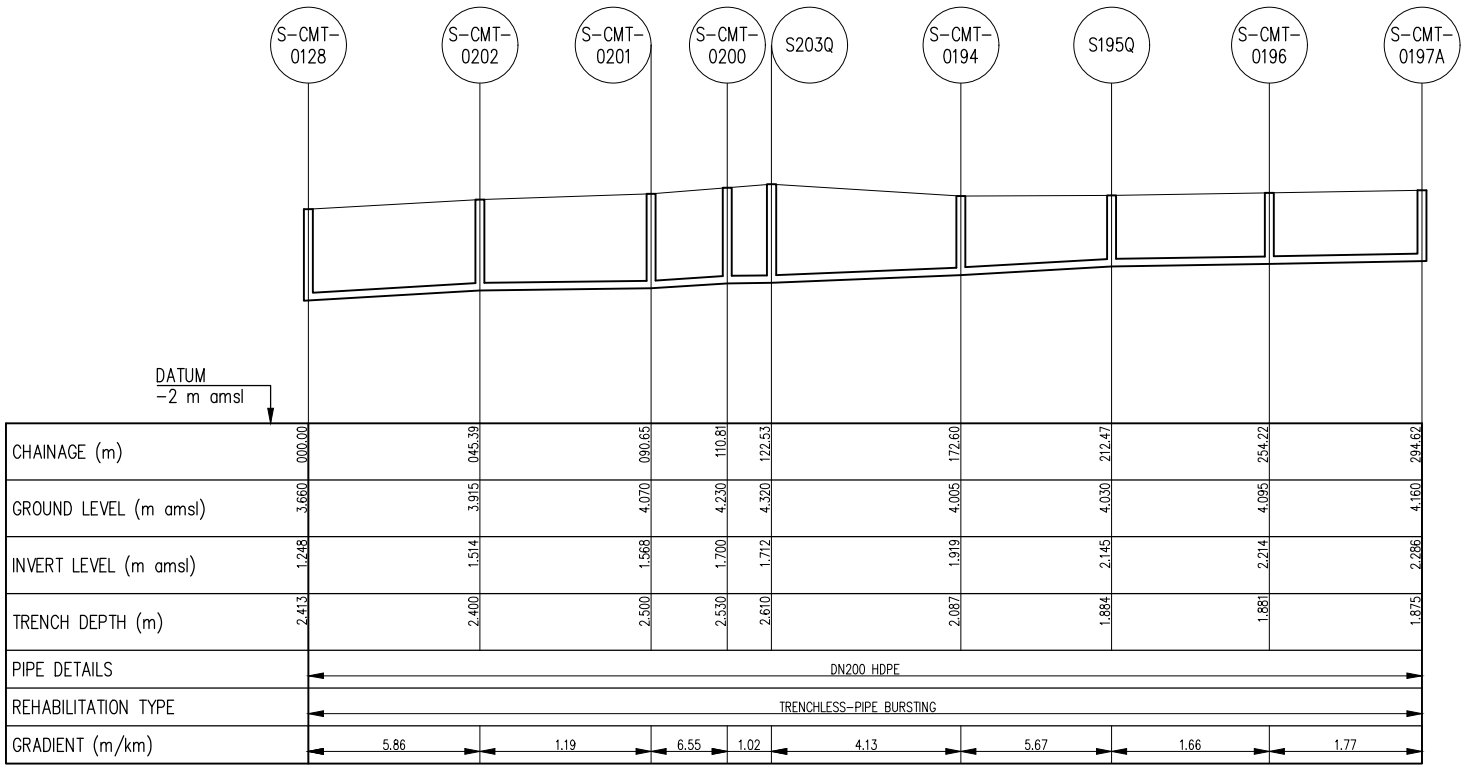
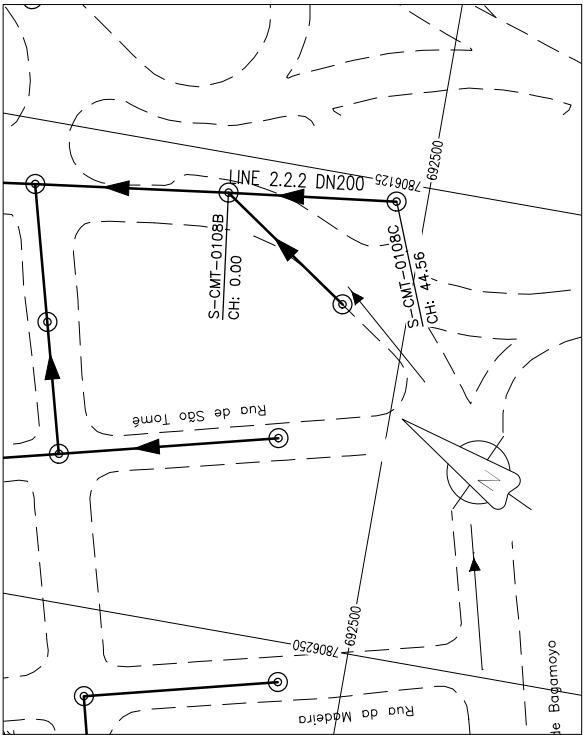
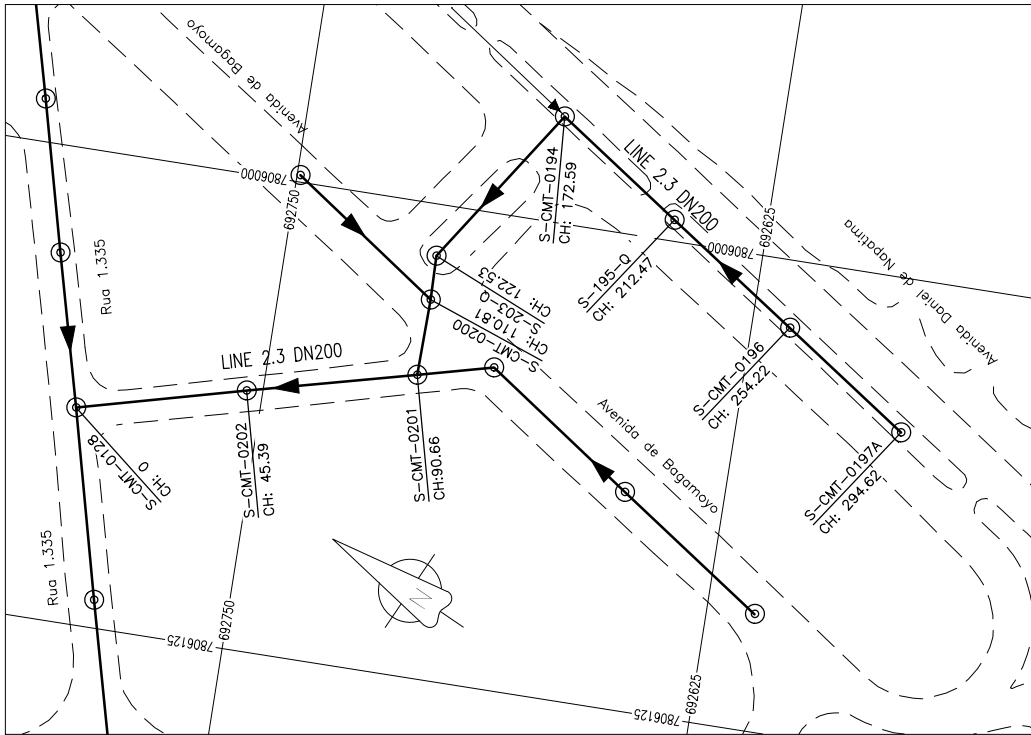
PROJECT:

FWC BENEFICIARIES 2018-L0T 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

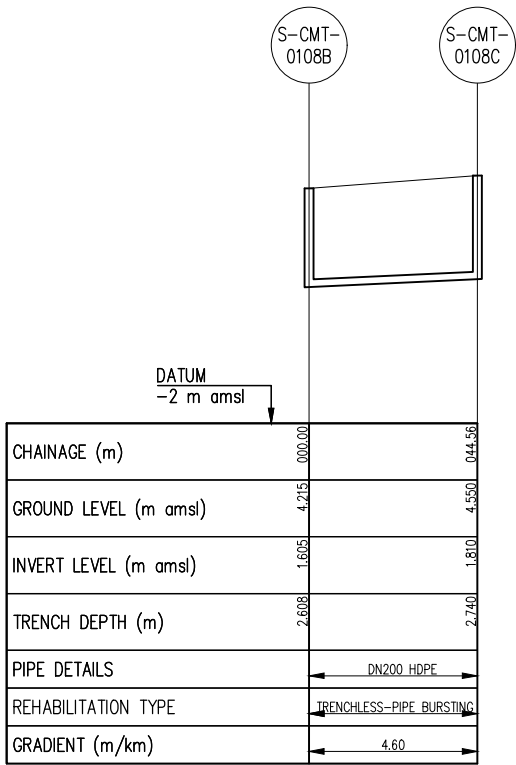
DRAWING TITLE:

CATCHMENT EE1-EE2 (MAQUININO) COLLECTOR 2.2 AND 2.2.1 PLAN AND PROFILE SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: JG
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.17	Revision A B C D E F G H I J K L



SEWERLINE EE1-EE2 MAQUININO 2.3 PROFILE



SEWERLINE EE1-EE2 MAQUININO 2.2.2 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



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BENEFICIARY: AIAS, SASB



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AV. EDUARDO MONDLANE, 1352.
MAPUTO



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CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

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30 RUE MADELINE VIONNET
93300 AUBERVILLIERS – FRANCE
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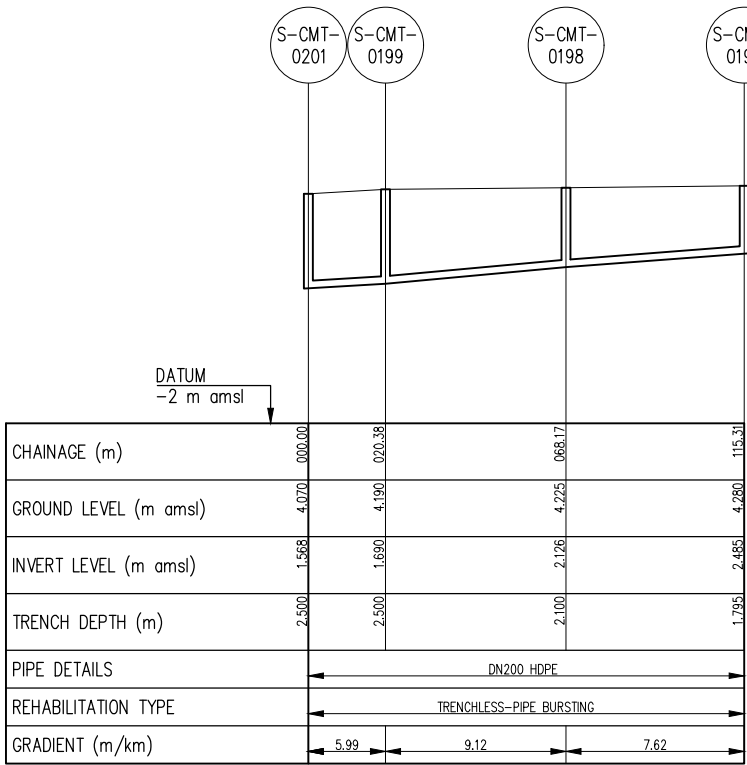
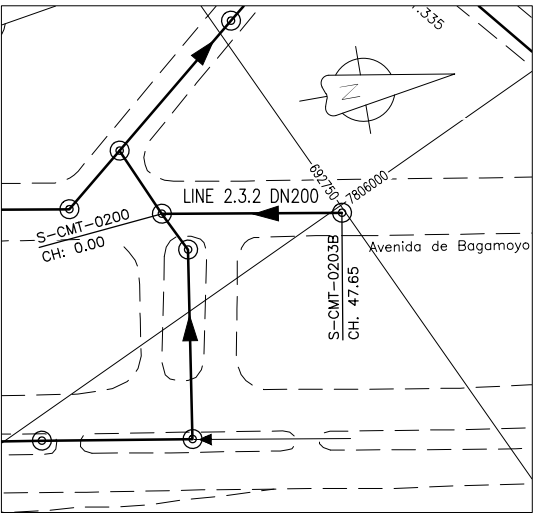
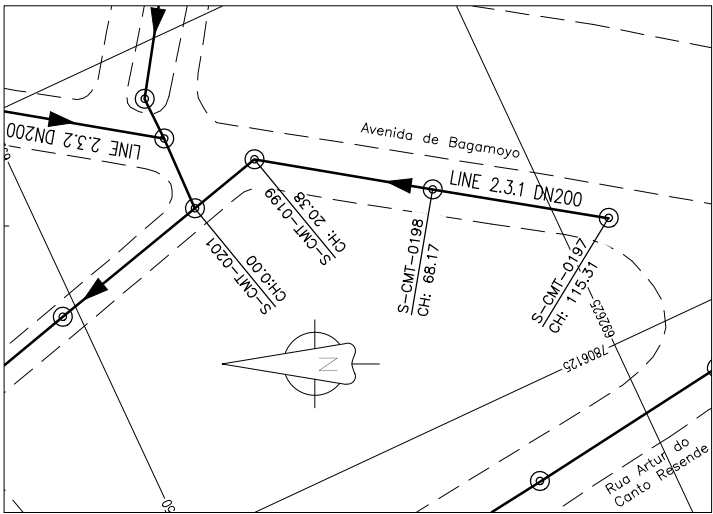
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

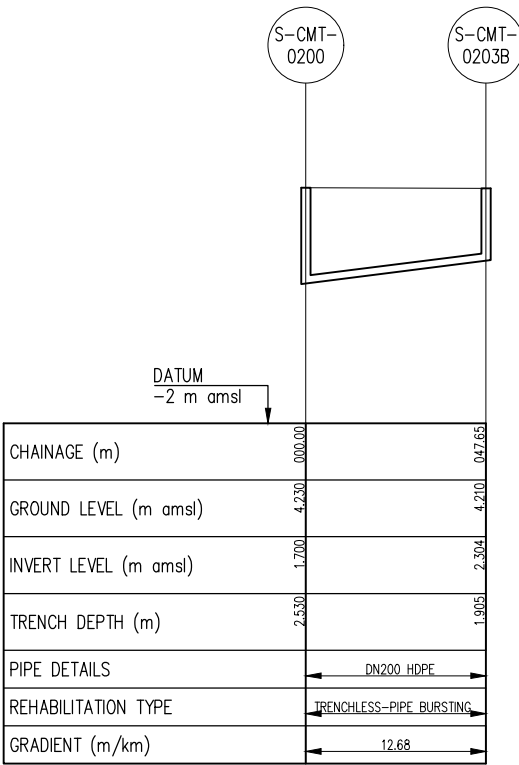
DRAWING TITLE:

CATCHMENT EE1-EE2 (MAQUININO)
COLLECTOR 2.3 AND 2.2.2 PLAN AND PROFILE
SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: JG
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.18	Revision A B C D E F G H I J K L



SEWERLINE EE1-EE2 MAQUININO 2.3.1 PROFILE



SEWERLINE EE1-EE2 MAQUININO 2.3.2 PROFILE

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES
2. THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
3. THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
4. THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- ⊙ MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:

SEURECA VEOLIA SEURECA CONSULTING ENGINEERS
30 RUE MADELINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

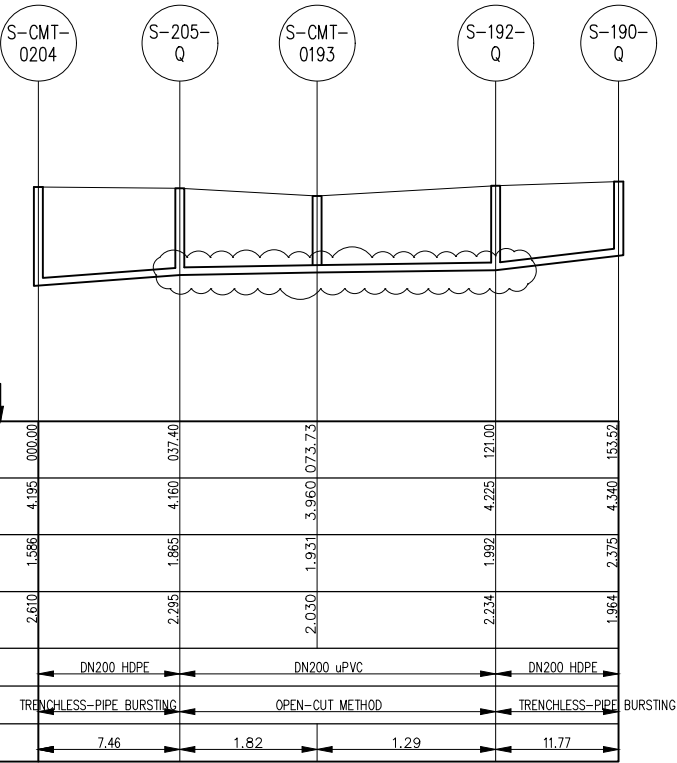
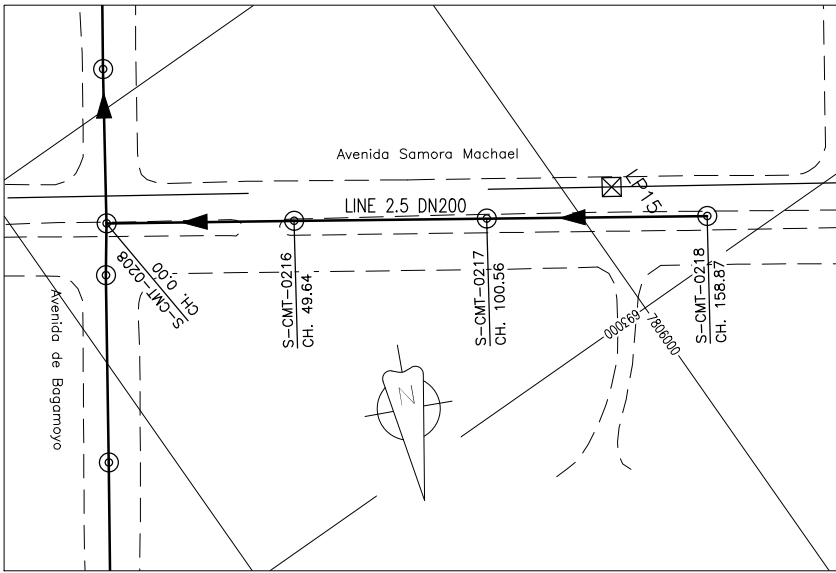
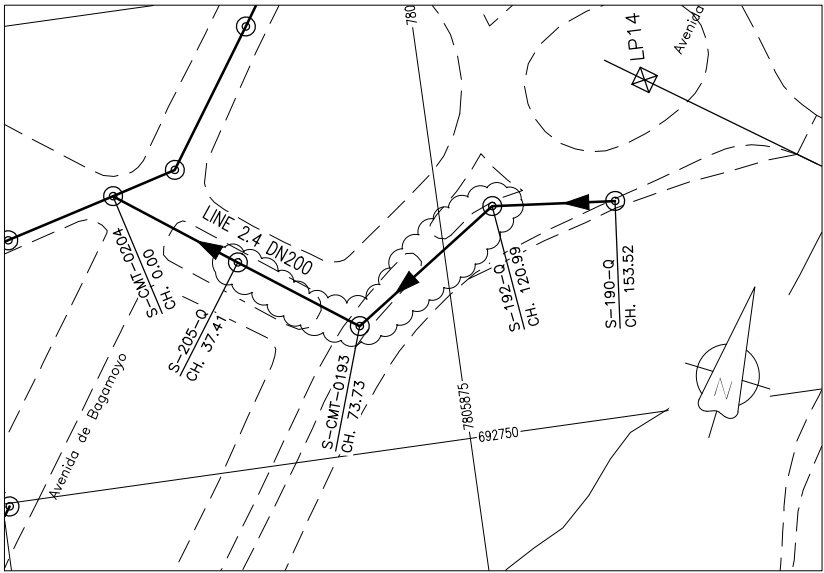
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

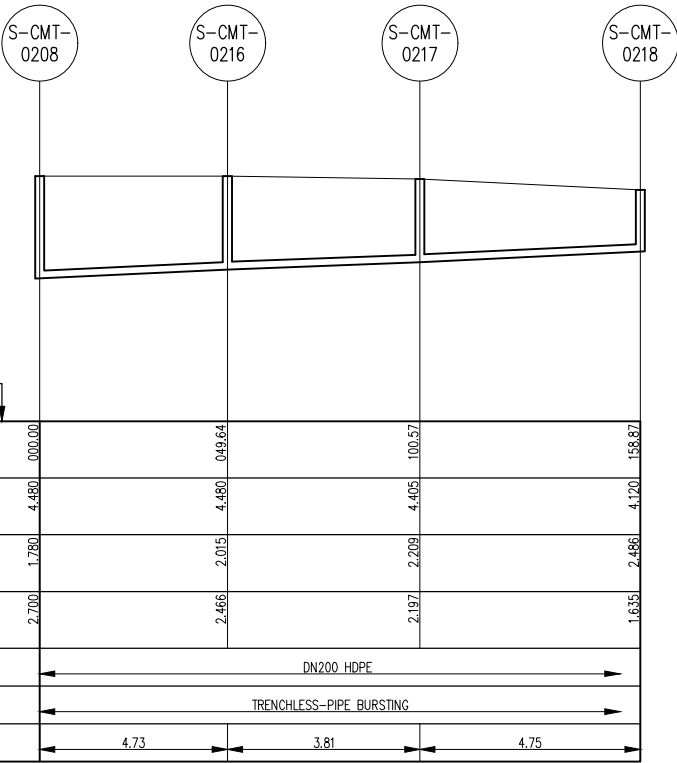
DRAWING TITLE:

CATCHMENT EE1-EE2 (MAQUININO)
COLLECTOR 2.3.1 AND 2.3.2 PLAN AND PROFILE
SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: JG
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.19	Revision A B C D E F G H I J K L



SEWERLINE EE1-EE2 MAQUININO 2.4 PROFILE



SEWERLINE EE1-EE2 MAQUININO 2.5 PROFILE

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES
2. THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
3. THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
4. THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- ⊙ MANHOLE
- SEWER LINE
- - - ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

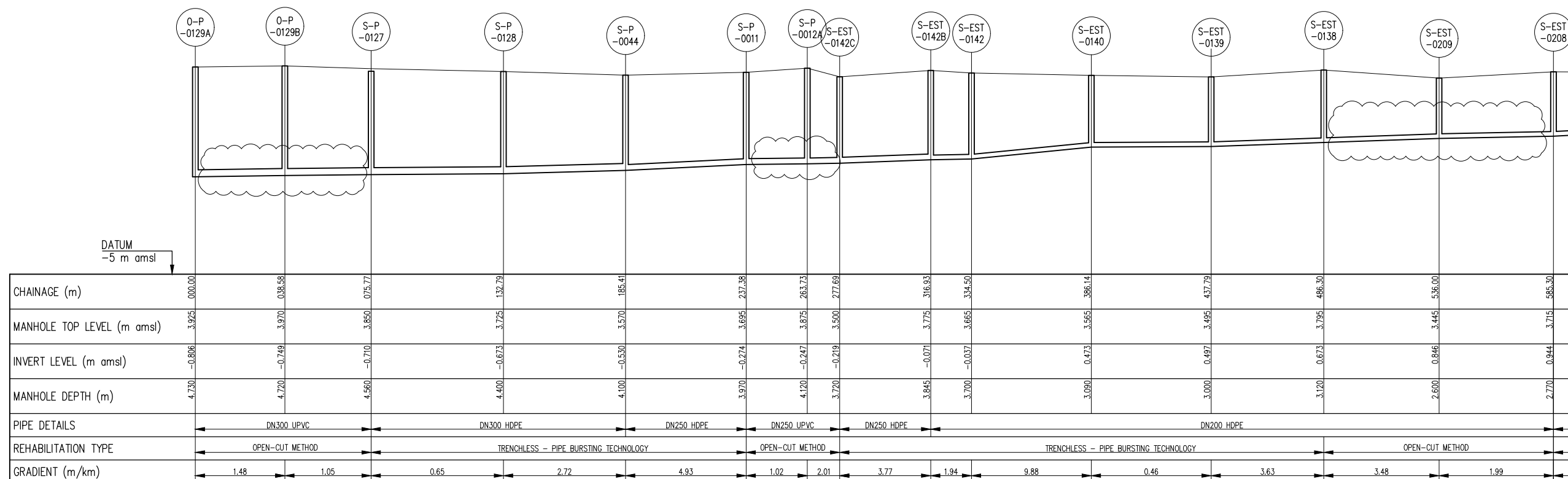
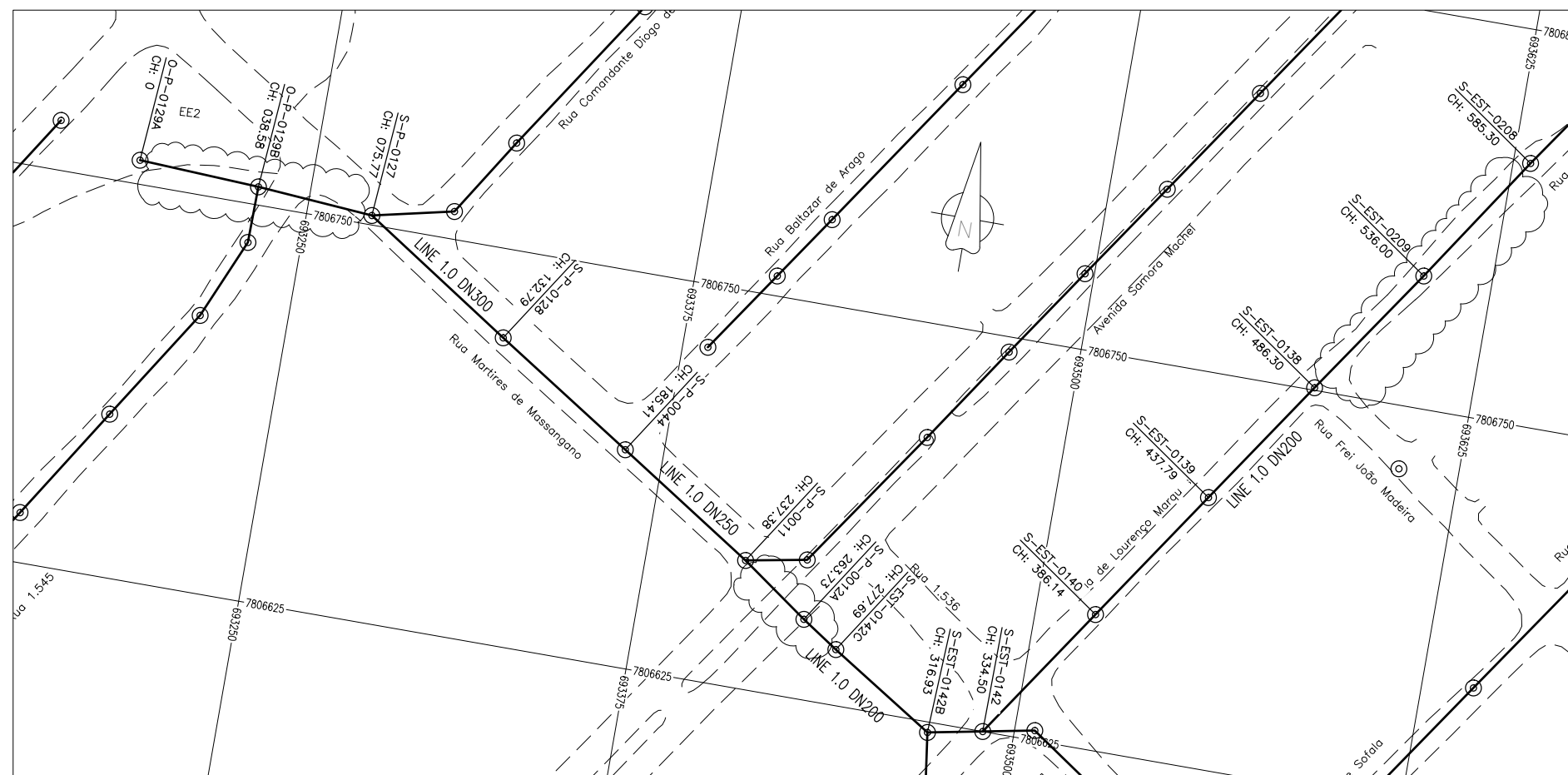
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE1-EE2 (MAQUININO) COLLECTOR2.4 AND 2.5 PLAN AND PROFILE
SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: JG
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MARCH 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.20	Revision A B C D E F G H I J K L

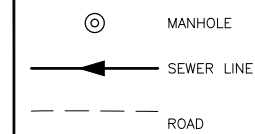


COLLECTOR SEWERLINE 1.0 PROFILE - SHT1

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES
2. THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
3. THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
4. THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND



REVISIONS

REVISIONS					
REV	DATE	DESCRIPTION	DES.	CHE.	APP.

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE
EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS
DE ÁGUA E SANEAMENTO

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS
E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÔNOMO DE SANEAMENTO DA BEIRA
(SASB), AVENIDA ARMANDO TIVANE
BEIRA

CONSULTANTS:



PLANET S.A.
D TOWER 64 | LOUISE RIENCOURT
523 ATHENS - GR
10 690 5000
10 698 1885

IN ASSOCIATION WITH:

SEURECA  **SEURECA CONSULTING ENGINEERS**
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE2-EE3 (RUA DE LOURENÇO
MARQUES) COLLECTOR SEWERLINE 1.0
PLAN AND PROFILE - SHEET 1 OF 2

DESIGN BY: PM	DRAWN BY: KO
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CHECKED BY: MJB	APPROVED BY: JF
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SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 202
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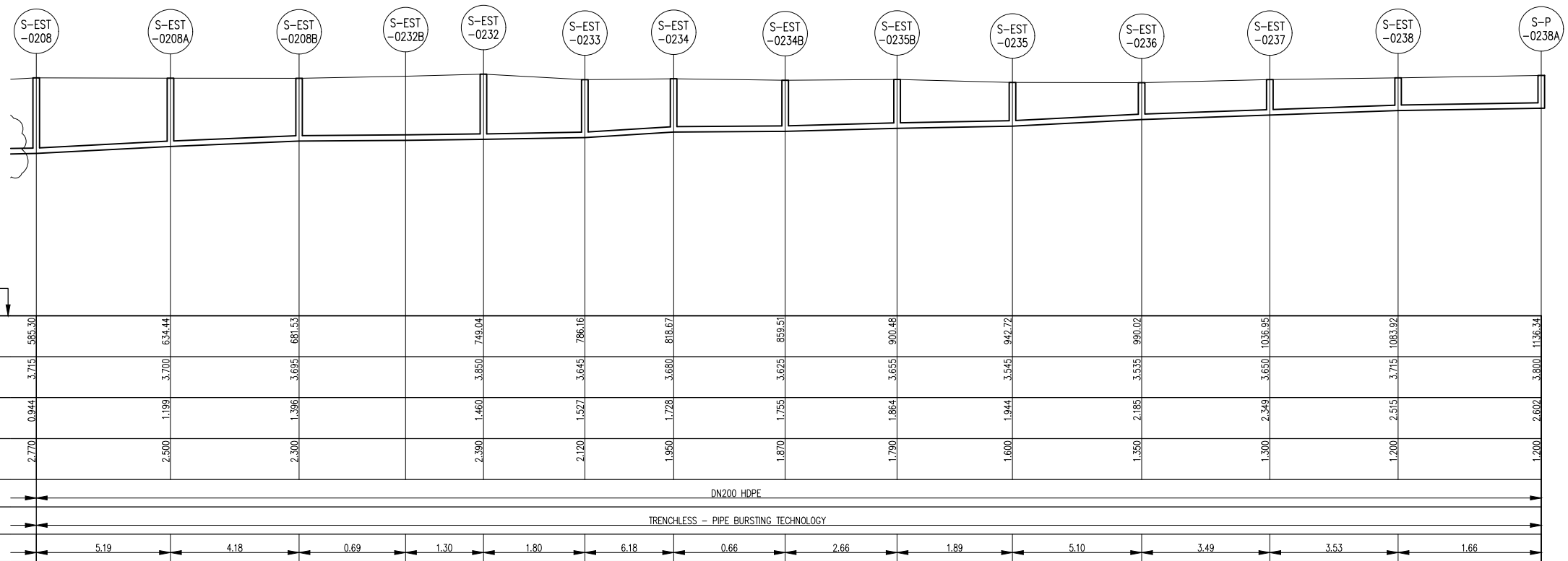
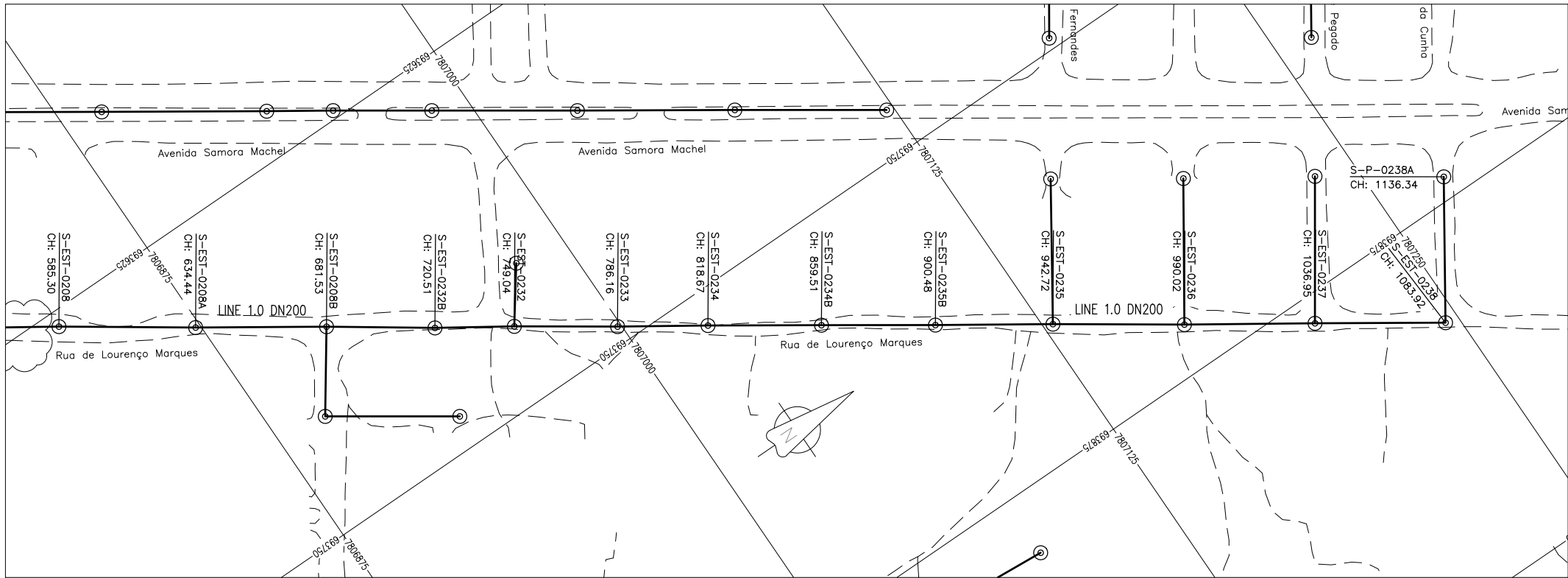
JOB No. MZSP00512E

DRAWING No.

EEAS/BSMP/MOZ/SN.CW.21

Revision

A	B	C	D	E	F
G	H	I	J	K	L



COLLECTOR SEWERLINE 1.0 PROFILE – SHT2

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL
- UNOPENABLE MANHOLES DURING INSPECTION;
(I) S-EST-0232B

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB

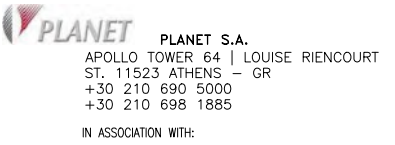


ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



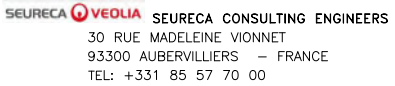
SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:



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30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

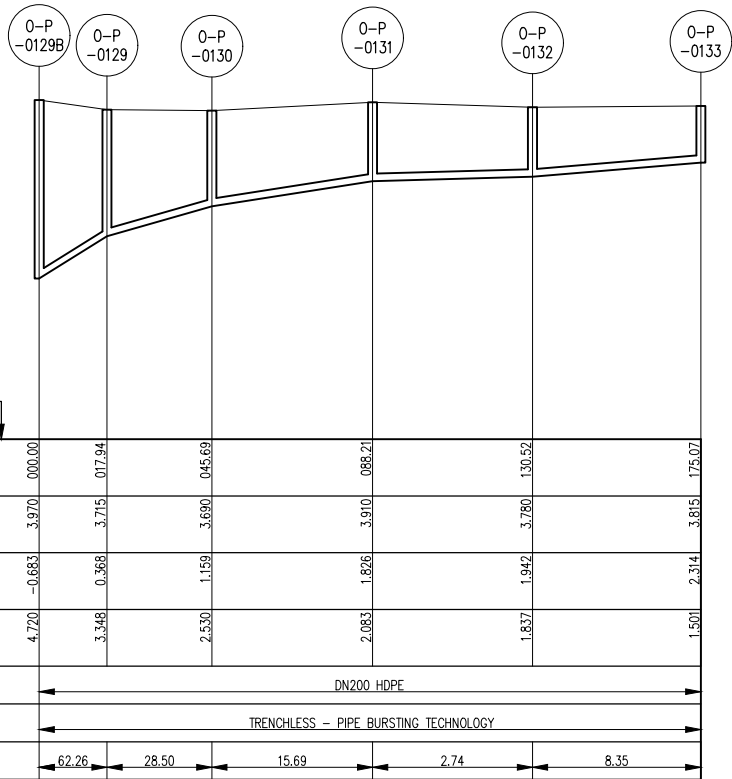
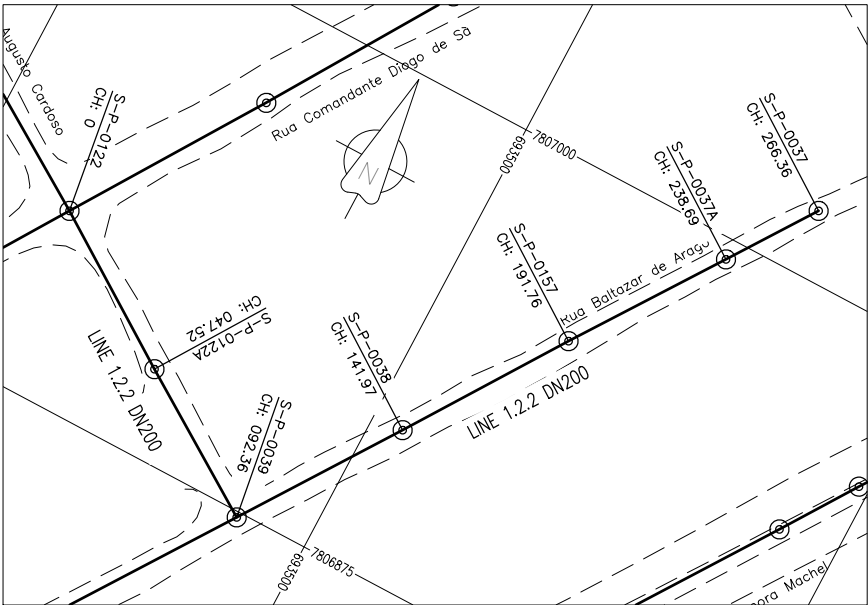
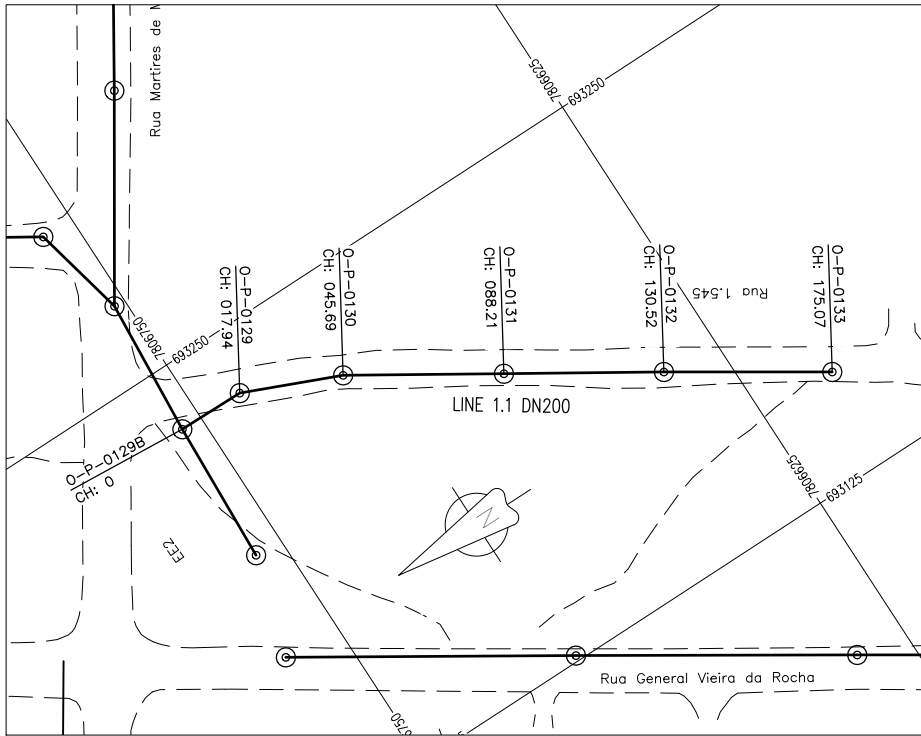
FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

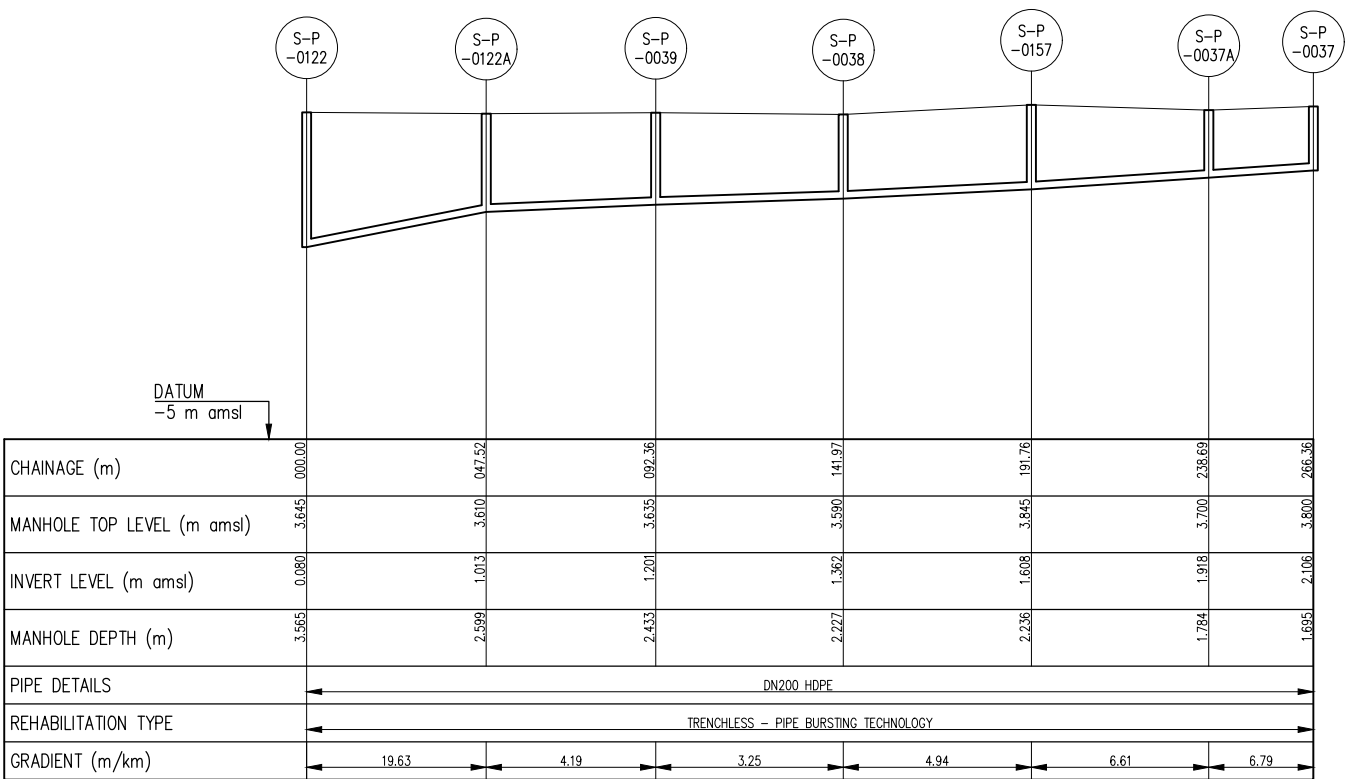
CATCHMENT EE2–EE3 (RUA DE LOURENÇO MARQUES) COLLECTOR SEWERLINE 1.0
PLAN AND PROFILE – SHEET 2 OF 2

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022

JOB No. MZSP00512E	
DRAWING No.	Revision
EEAS/BSMP/MOZ/SN.CW.21	A B C D E F G H I J K L



COLLECTOR SEWERLINE 1.1 PROFILE



COLLECTOR SEWERLINE 1.2.2 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:
SEURECA **VEOLIA** SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

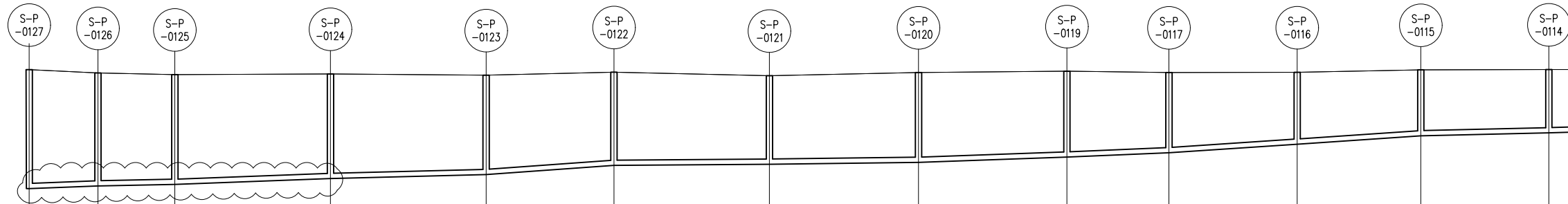
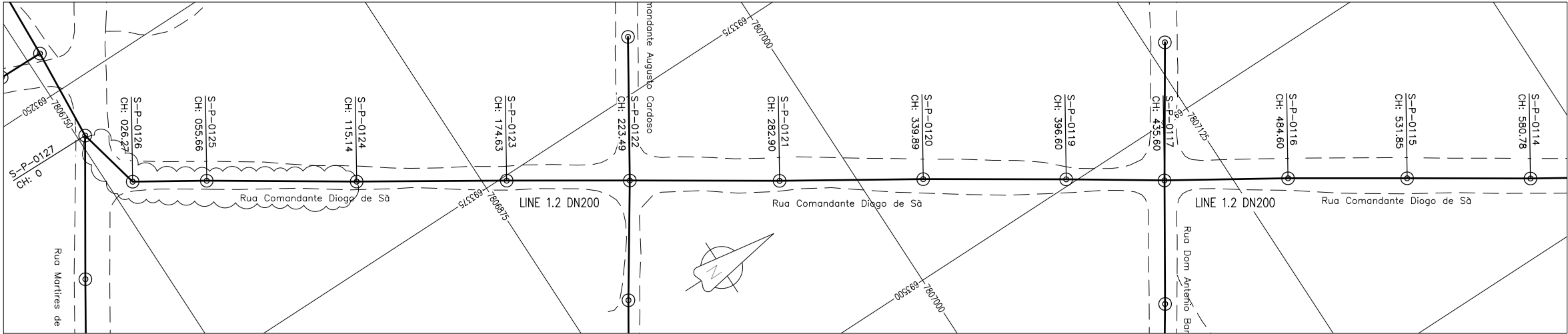
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE2-EE3
COLLECTOR SEWERLINE 1.1 AND 1.2.2
PLAN AND PROFILE - SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.22	Revision A B C D E F G H I J K L



	<div>DATUM -5 m amsl</div>												
CHAINAGE (m)	000.00	026.27	055.66	115.14	174.63	223.49	282.90	339.89	396.60	435.60	484.60	531.85	580.78
MANHOLE TOP LEVEL (m amsl)	3.740	3.615	3.550	3.580	3.530	3.645	3.510	3.630	3.680	3.630	3.640	3.730	3.745
INVERT LEVEL (m amsl)	-0.810	-0.707	-0.648	-0.422	-0.271	0.080	0.124	0.195	0.397	0.562	0.890	1.211	1.323
MANHOLE DEPTH (m)	4.550	4.320	4.200	4.000	3.800	3.565	3.385	3.437	3.285	3.070	2.750	2.521	2.424
PIPE DETAILS	DN200 UPVC				DN200 HDPE								
REHABILITATION TYPE	OPEN - CUT METHOD				TRENCHLESS - PIPE BURSTING TECHNOLOGY								
GRADIENT (m/km)	3.92	2.01	3.80	2.54	7.18	0.74	1.25	3.56	4.23	6.69	6.79	2.29	

COLLECTOR SEWERLINE 1.2 PROFILE – SHT1

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- ⊙ MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:

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30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

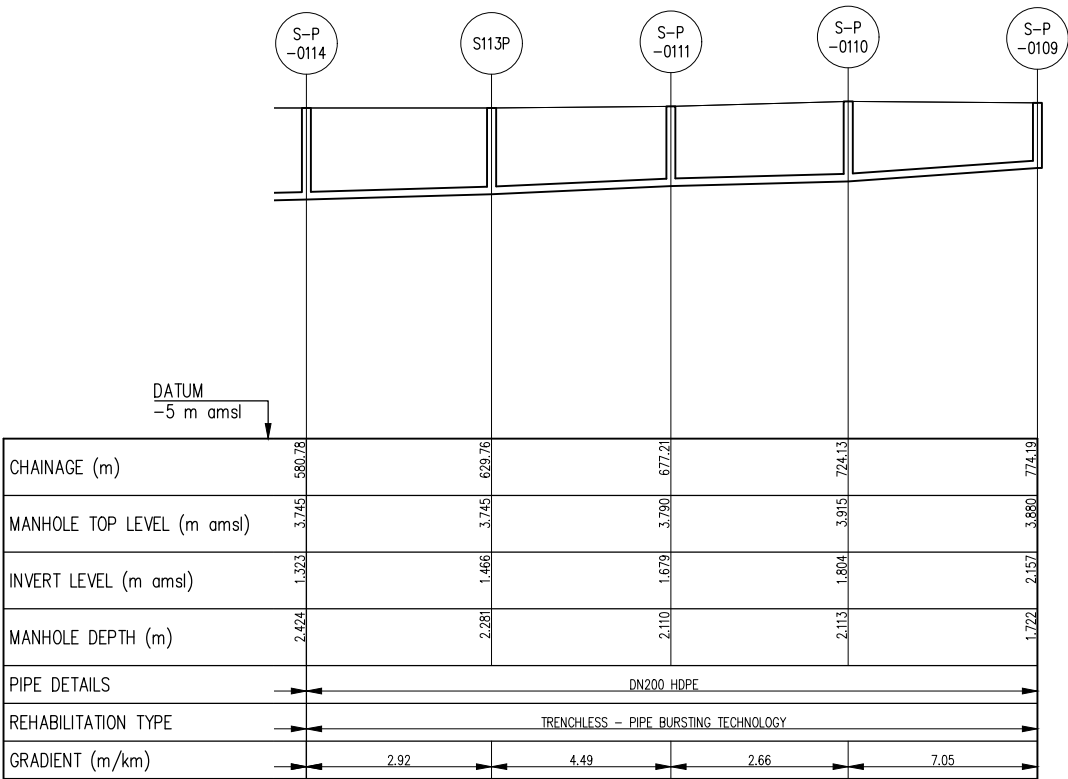
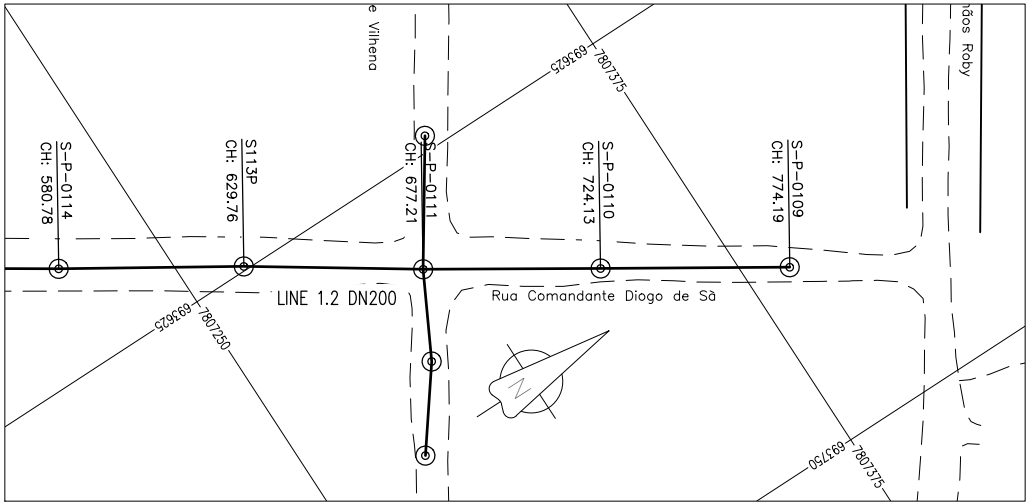
FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE2–EE3
COLLECTOR SEWERLINE 1.2
PLAN AND PROFILE – SHEET 1 OF 2

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022

JOB No. MZSP00512E						
DRAWING No.	Revision					
EEAS/BSMP/MOZ/SN.CW.23	A	B	C	D	E	F
	G	H	I	J	K	L



COLLECTOR SEWERLINE 1.2 PROFILE – SHT2

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES
2. THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
3. THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
4. THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- ⊙ MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV.	DATE	DESCRIPTION	DES.	CHE.	APPR.

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÖNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

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PROJECT:

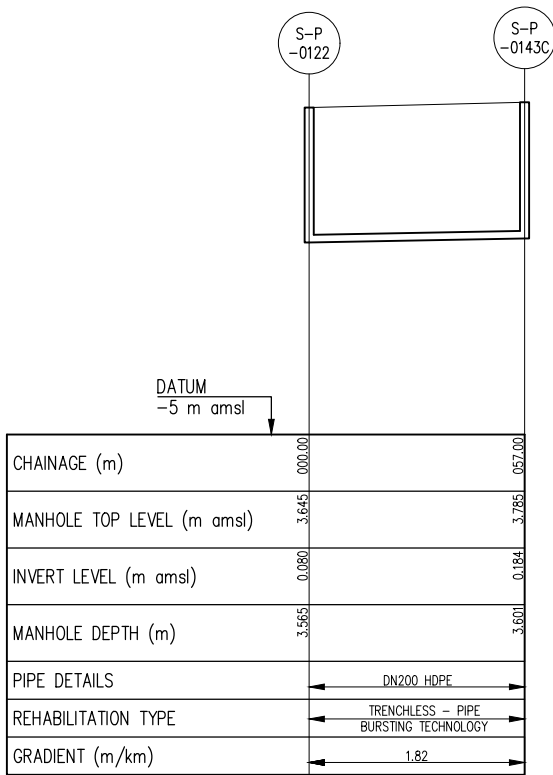
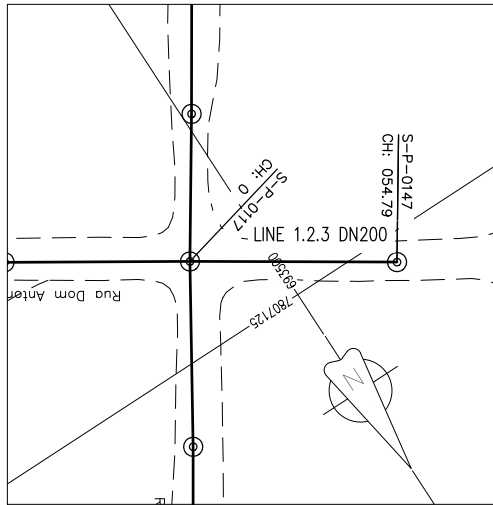
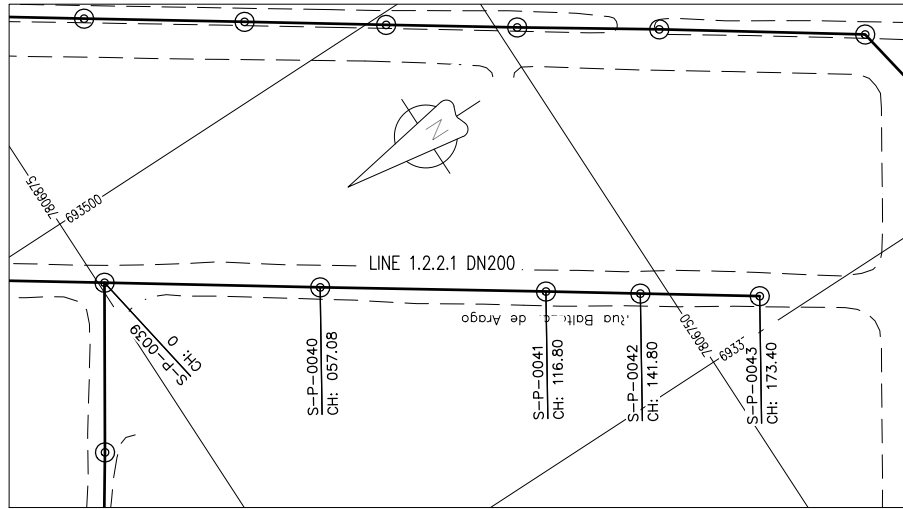
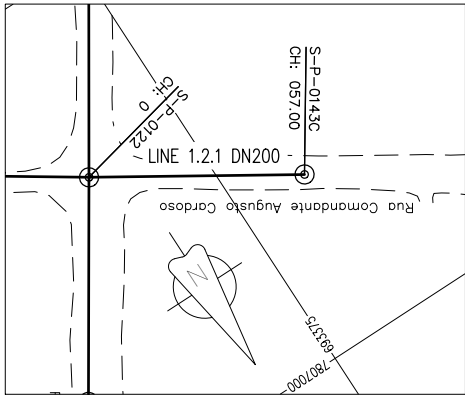
FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

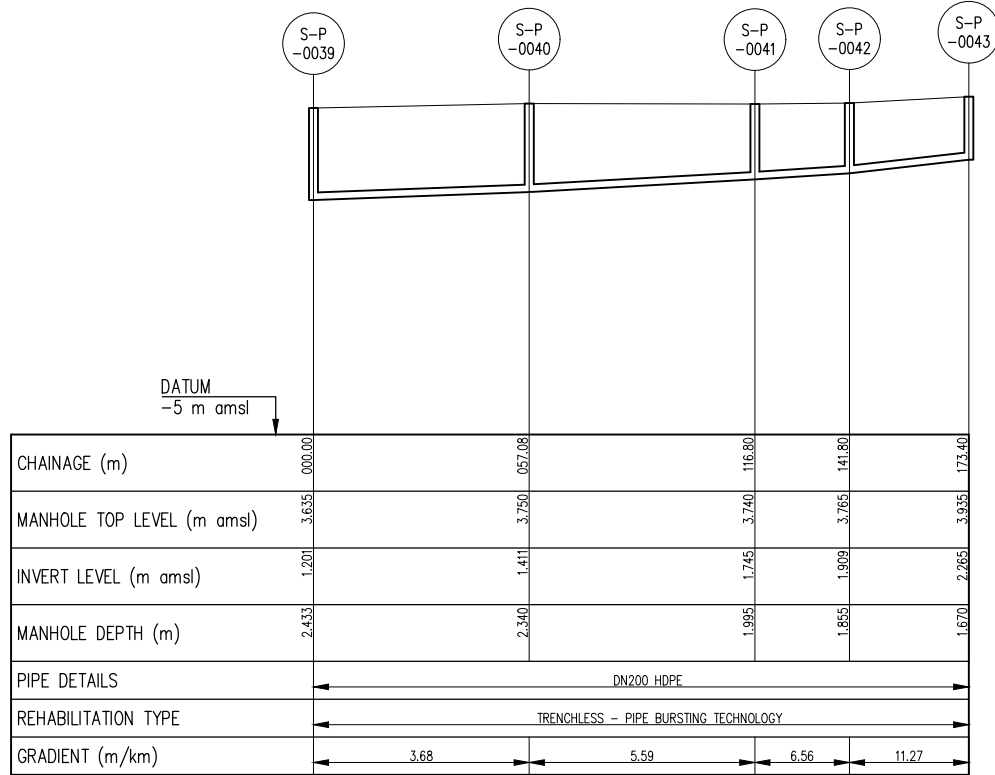
CATCHMENT EE2–EE3
COLLECTOR SEWERLINE 1.2
PLAN AND PROFILE – SHEET 2 OF 2

DESIGN BY:	PM	DRAWN BY:	KC
CHECKED BY:	MJB	APPROVED BY:	JF
SCALE:	Hor 1:1000, Ver 1:100	DATE:	MAR 2022

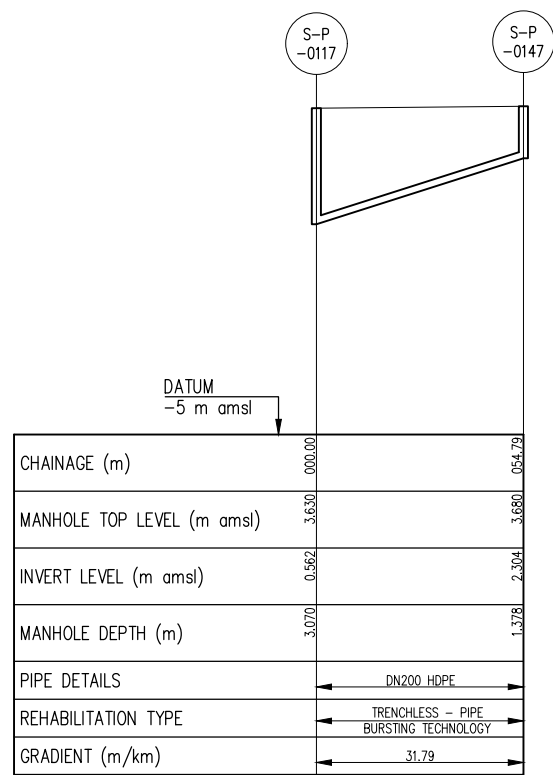
JOB No. MZSP00512E	Revision
DRAWING No. EEAS/BSMP/MOZ/SN.CW.23	A B C D E F G H I J K L



COLLECTOR SEWERLINE 1.2.1 PROFILE



COLLECTOR SEWERLINE 1.2.2.1 PROFILE



COLLECTOR SEWERLINE 1.2.3 PROFILE

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES
2. THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
3. THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
4. THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- ⊙ MANHOLE
- SEWER LINE
- - - ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
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MAPUTO



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CONSULTANTS:

PLANET PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
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PROJECT:

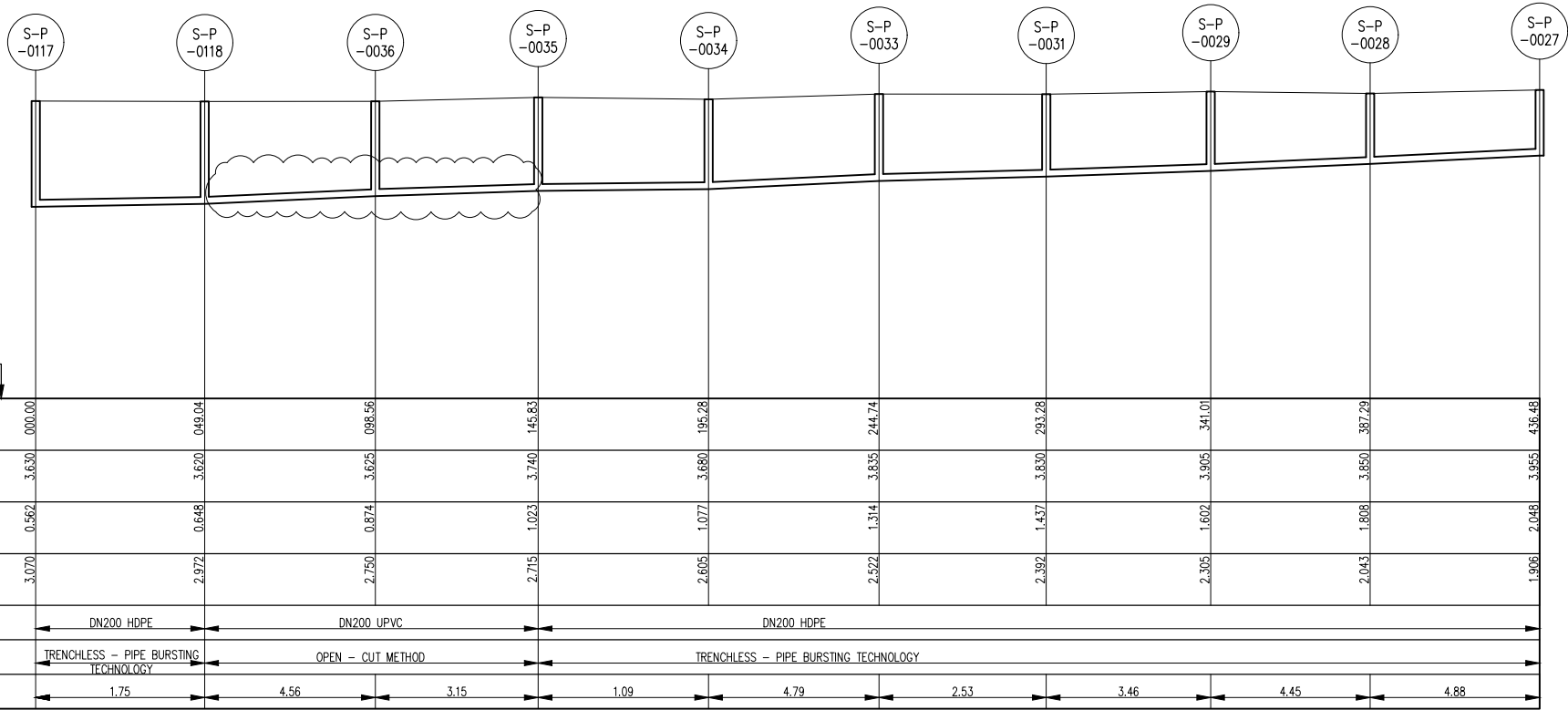
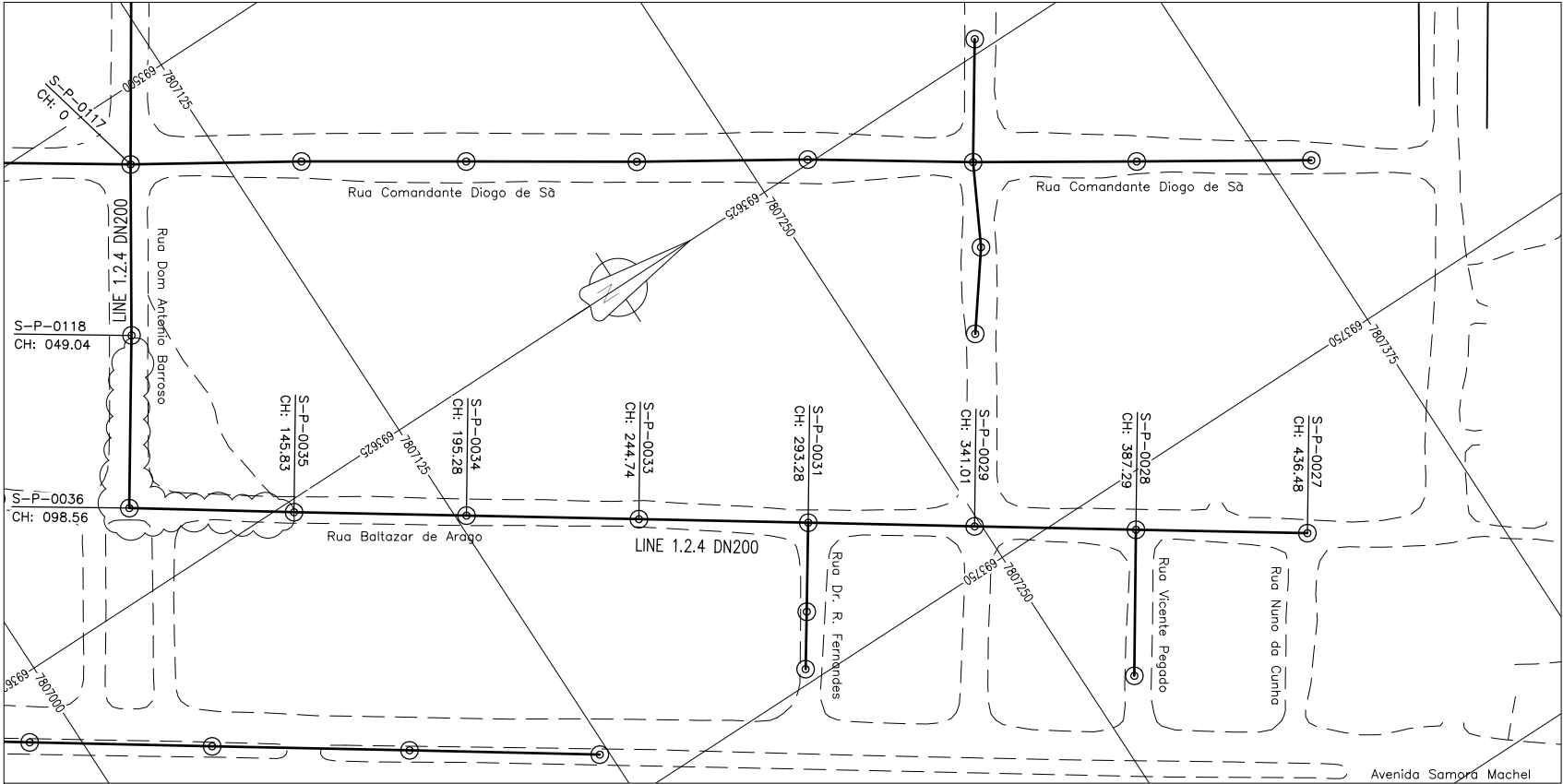
FWC BENEFICIARIES 2018-L0T 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE2-EE3
COLLECTOR SEWERLINES 1.2.1, 1.2.2.1 & 1.2.3
PLAN AND PROFILE - SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022

JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.24	Revision
	A B C D E F
	G H I J K L



COLLECTOR SEWERLINE 1.2.4 PROFILE

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES
2. THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
3. THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
4. THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

PROJECT:

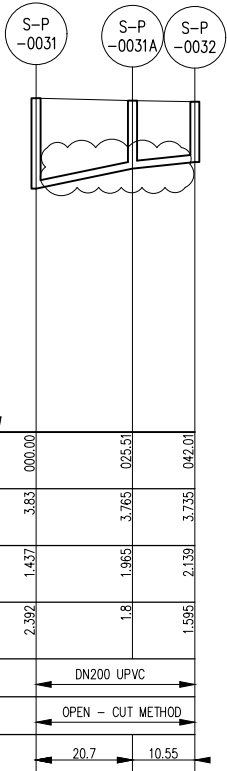
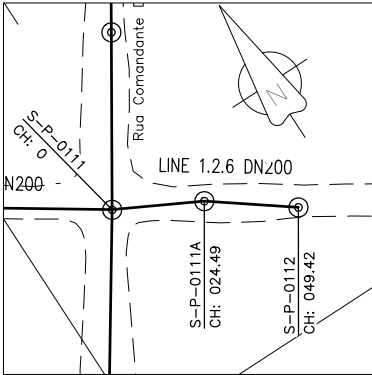
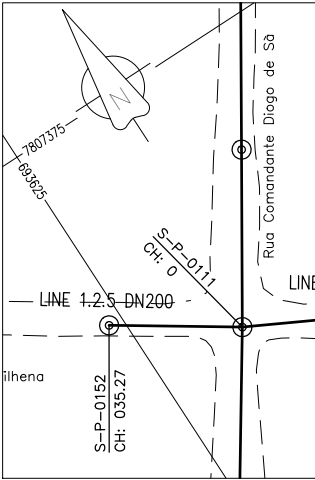
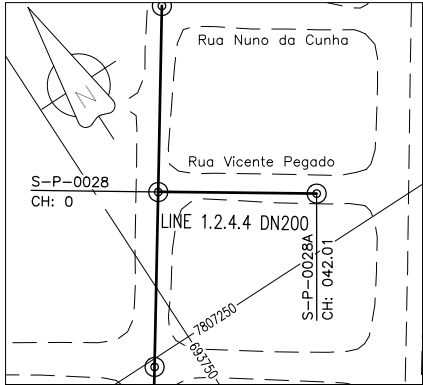
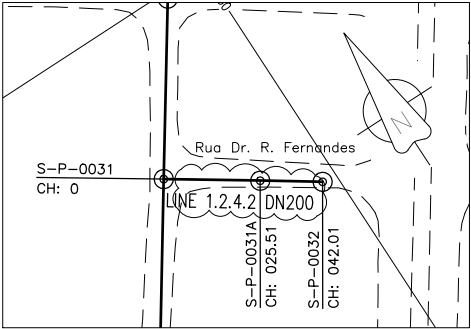
FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE2-EE3
COLLECTOR SEWERLINE 1.2.4
PLAN AND PROFILE - SHEET 1 OF 1

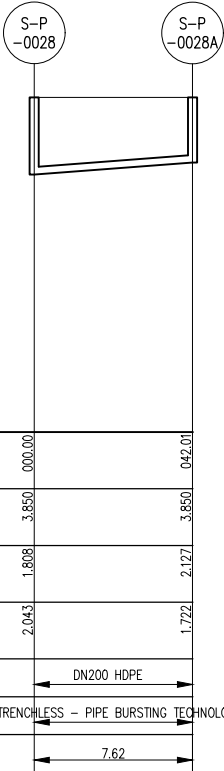
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CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022

JOB No. MZSP00512E	Revision
DRAWING No. EEAS/BSMP/MOZ/SN.CW.25	A B C D E F G H I J K L



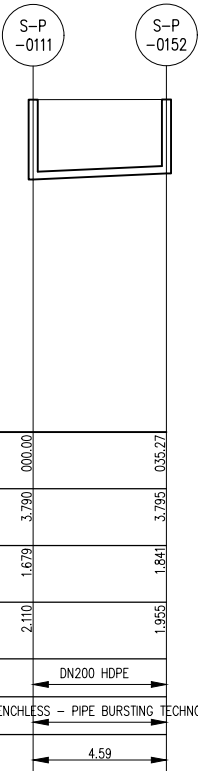
CHAINAGE (m)	000.00	025.51	042.01
MANHOLE TOP LEVEL (m amsl)	3.83	3.765	3.735
INVERT LEVEL (m amsl)	1.437	1.965	2.139
MANHOLE DEPTH (m)	2.392	1.8	1.595
PIPE DETAILS	DN200 UPVC		
REHABILITATION TYPE	OPEN - CUT METHOD		
GRADIENT (m/km)	20.7	10.55	

COLLECTOR 1.2.4.2 PROFILE



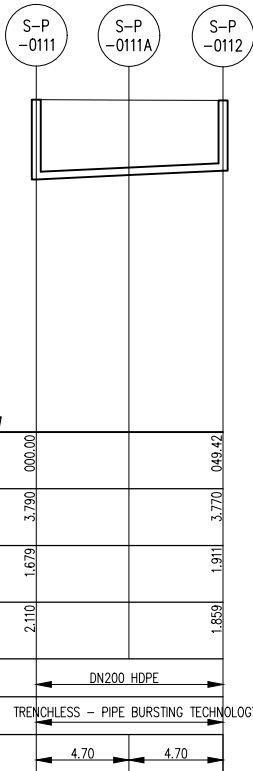
CHAINAGE (m)	000.00	042.01
MANHOLE TOP LEVEL (m amsl)	3.850	3.850
INVERT LEVEL (m amsl)	1.808	2.127
MANHOLE DEPTH (m)	2.043	1.722
PIPE DETAILS	DN200 HDPE	
REHABILITATION TYPE	TRENCHLESS - PIPE BURSTING TECHNOLOGY	
GRADIENT (m/km)	7.62	

COLLECTOR 1.2.4.4 PROFILE



CHAINAGE (m)	000.00	035.27
MANHOLE TOP LEVEL (m amsl)	3.790	3.795
INVERT LEVEL (m amsl)	1.679	1.841
MANHOLE DEPTH (m)	2.110	1.955
PIPE DETAILS	DN200 HDPE	
REHABILITATION TYPE	TRENCHLESS - PIPE BURSTING TECHNOLOGY	
GRADIENT (m/km)	4.59	

COLLECTOR 1.2.5 PROFILE



CHAINAGE (m)	000.00	049.42
MANHOLE TOP LEVEL (m amsl)	3.790	3.770
INVERT LEVEL (m amsl)	1.679	1.911
MANHOLE DEPTH (m)	2.110	1.859
PIPE DETAILS	DN200 HDPE	
REHABILITATION TYPE	TRENCHLESS - PIPE BURSTING TECHNOLOGY	
GRADIENT (m/km)	4.70	4.70

COLLECTOR 1.2.6 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL
- UNOPENABLE MANHOLES DURING INSPECTION;
(I) S-P-0111A

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÖNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA VEOLIA SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

PROJECT:

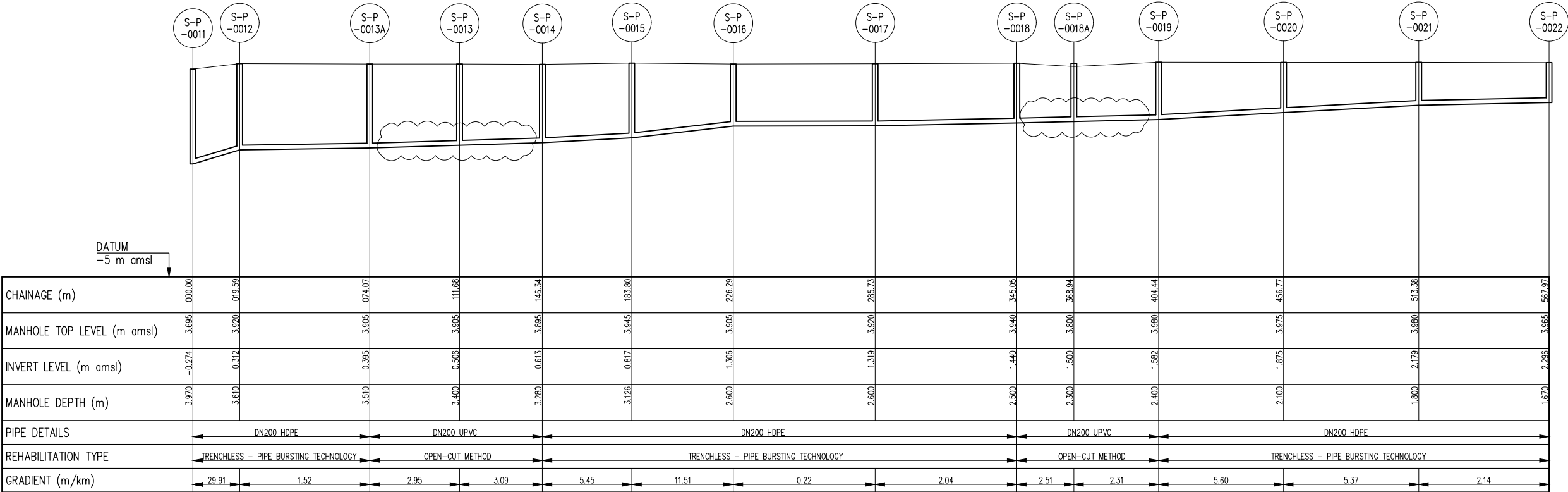
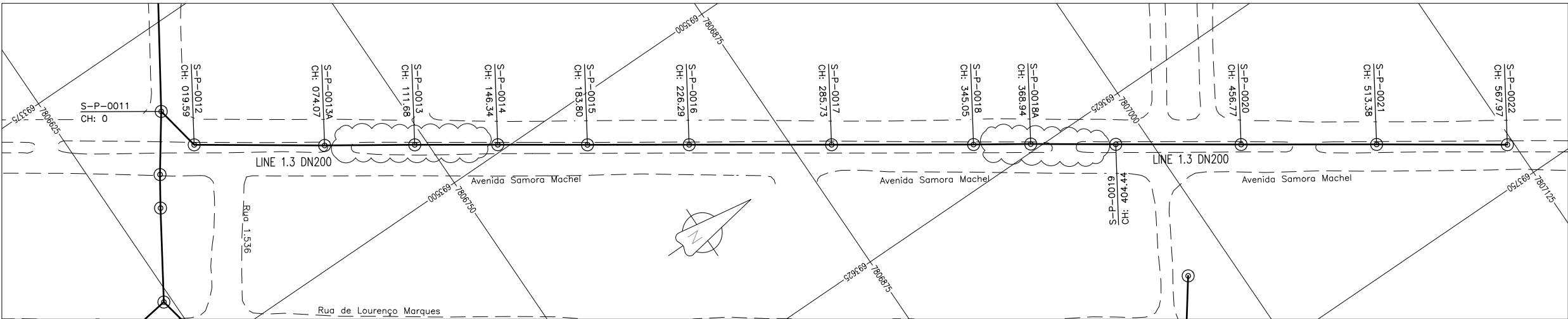
FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE2-EE3, COLLECTOR SEWERLINES 1.2.4.2, 1.2.4.4, 1.2.5 & 1.2.6
PLAN AND PROFILE - SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022

JOB No. MZSP00512E		Revision					
DRAWING No.							
EEAS/BSMP/MOZ/SN.CW.26							
A	B	C	D	E	F		
G	H	I	J	K	L		



COLLECTOR SEWERLINE 1.3 PROFILE

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES
2. THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
3. THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
4. THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB

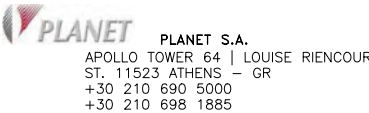


ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÖNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:
SEURECA VEOLIA SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

PROJECT:

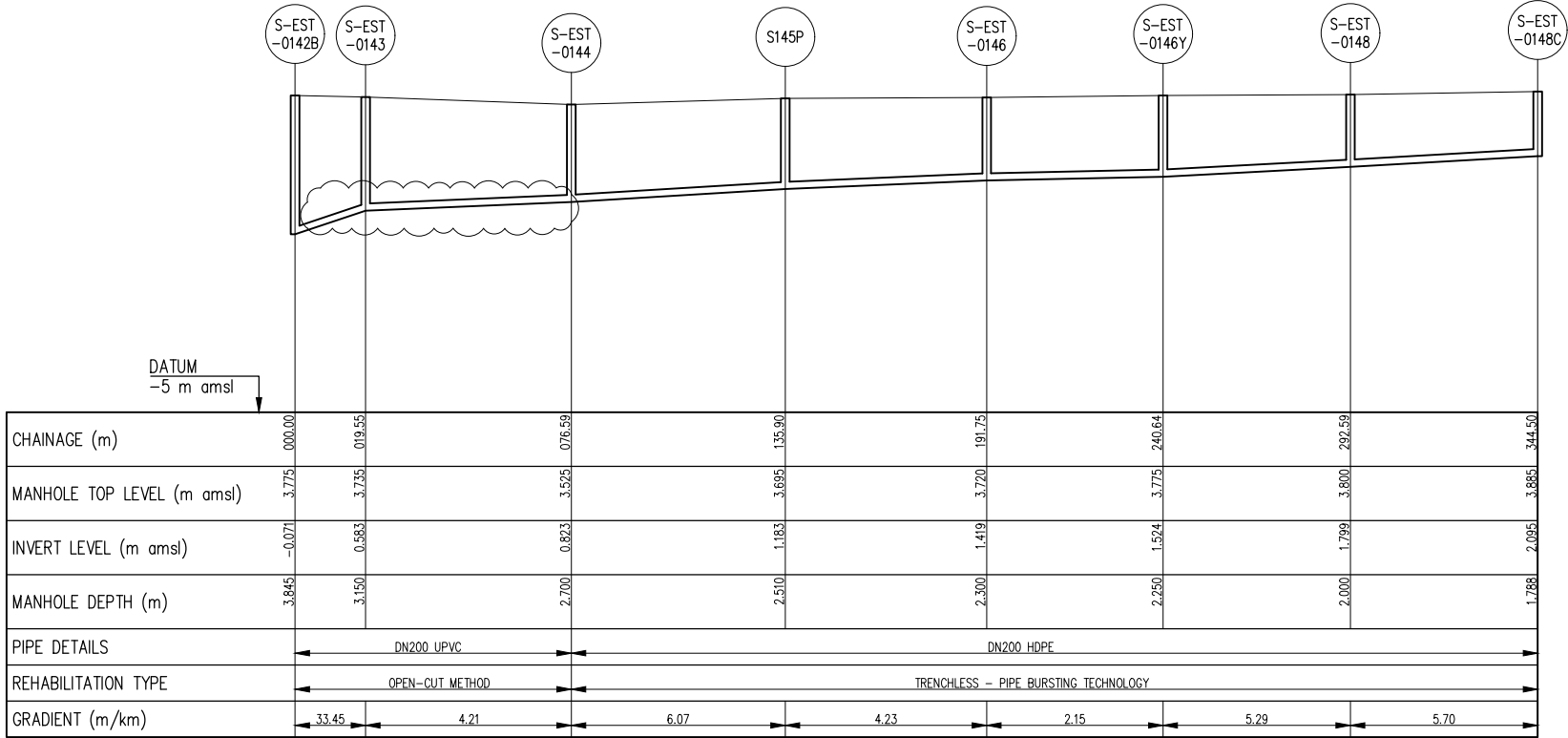
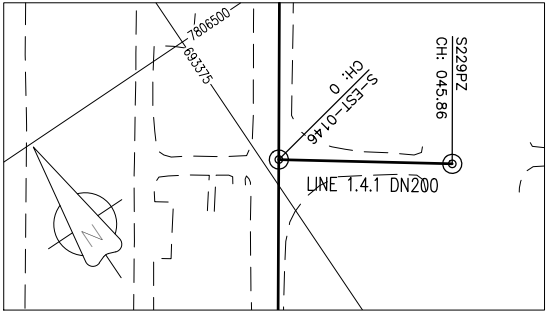
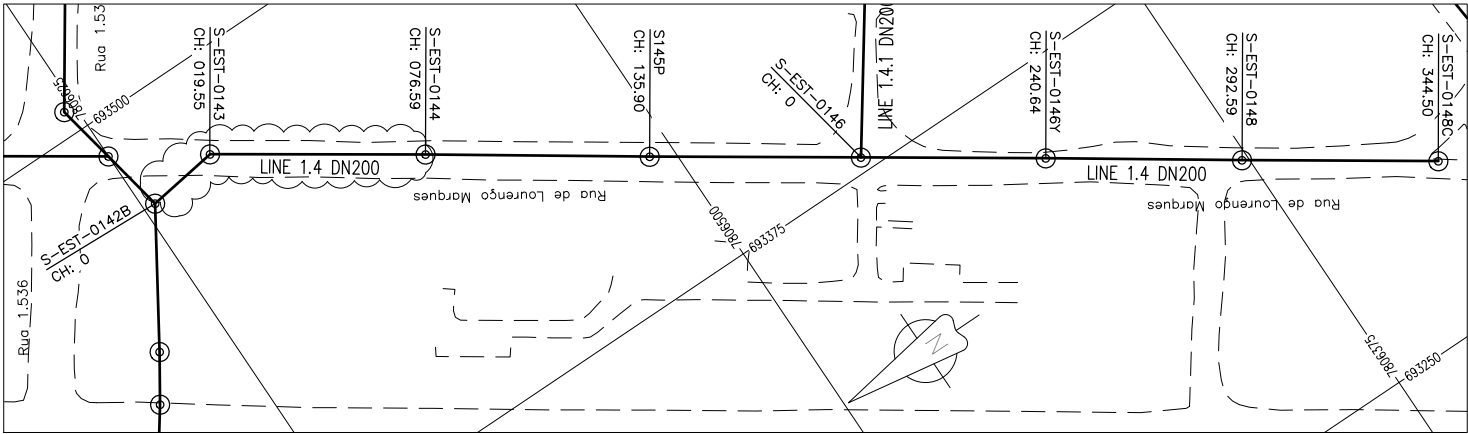
FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

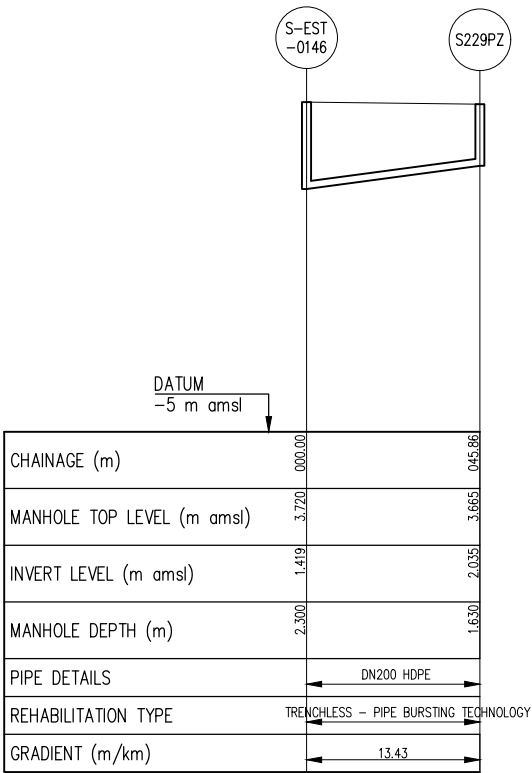
CATCHMENT EE2-EE3
COLLECTOR SEWERLINE 1.3
PLAN AND PROFILE - SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022

JOB No. MZSP00512E	Revision
DRAWING No. EEAS/BSMP/MOZ/SN.CW.27	A B C D E F G H I J K L



COLLECTOR SEWERLINE 1.4 PROFILE



COLLECTOR 1.4.1 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÔNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:
 SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

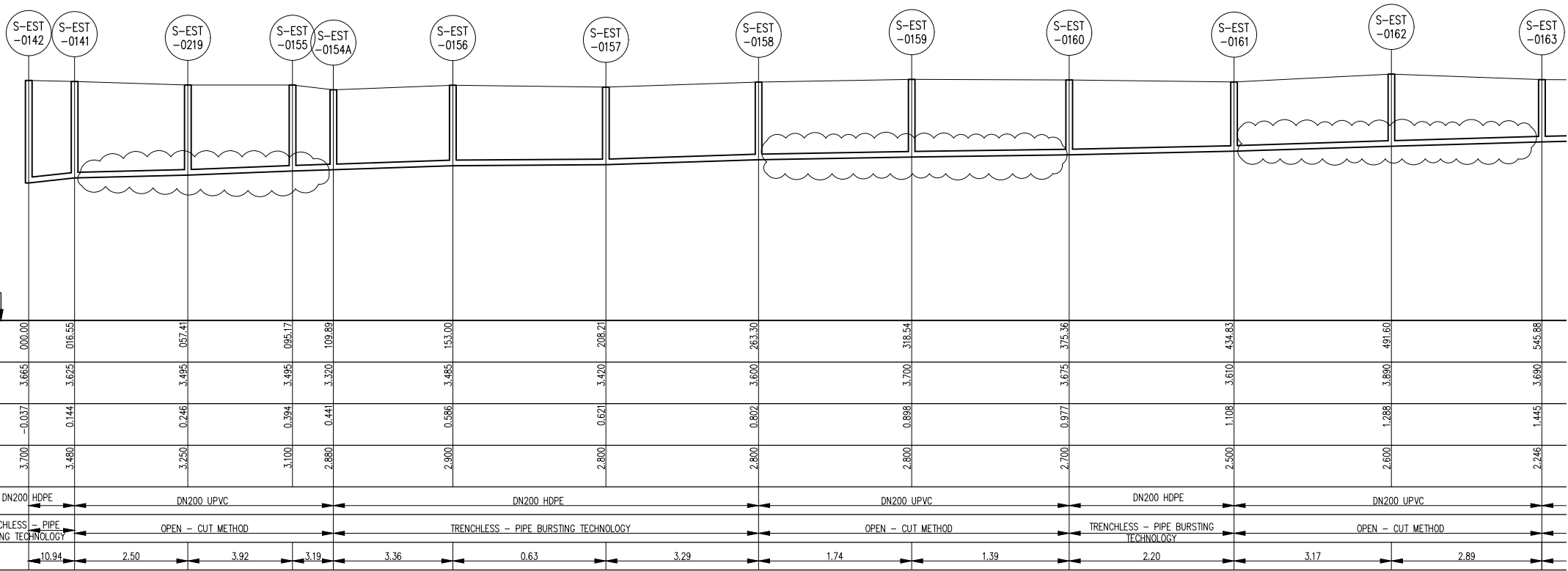
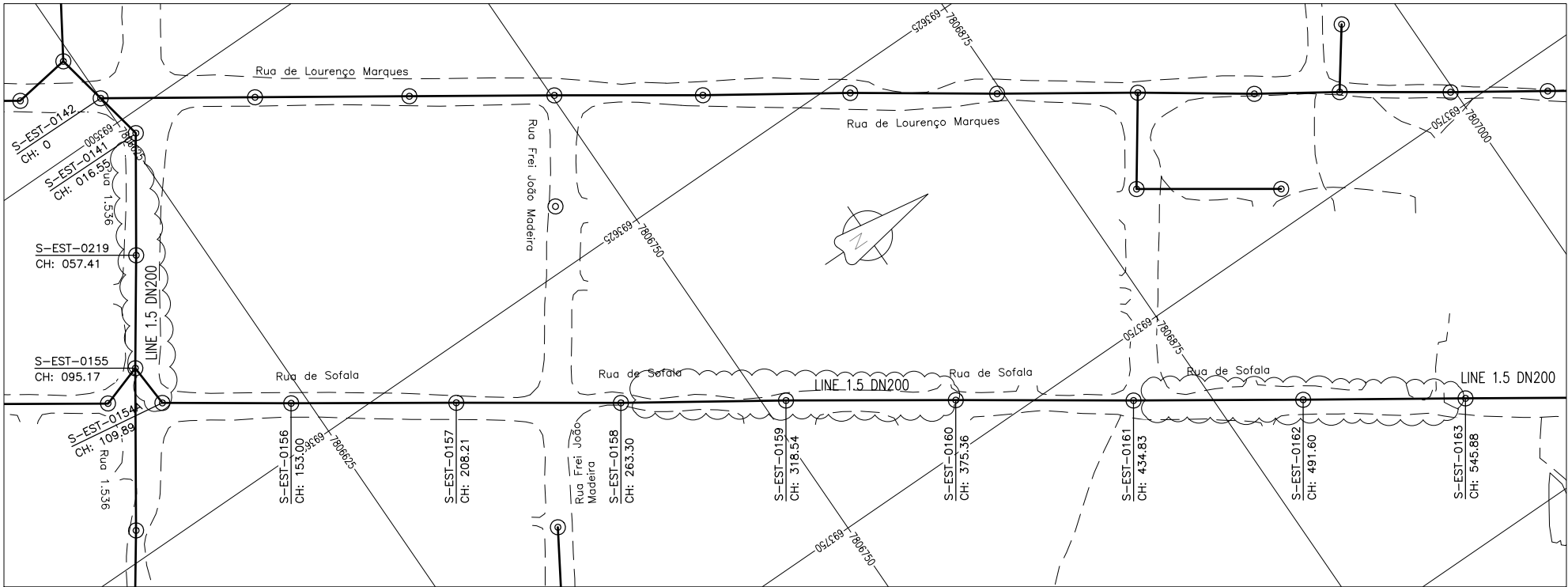
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE2-EE3
COLLECTOR SEWERLINE 1.4 AND 1.4.1
PLAN AND PROFILE - SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.28	Revision A B C D E F G H I J K L



COLLECTOR SEWERLINE 1.5 PROFILE – SHT1

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)

AV. EDUARDO MONDLANE, 1352. MAPUTO



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CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:



SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

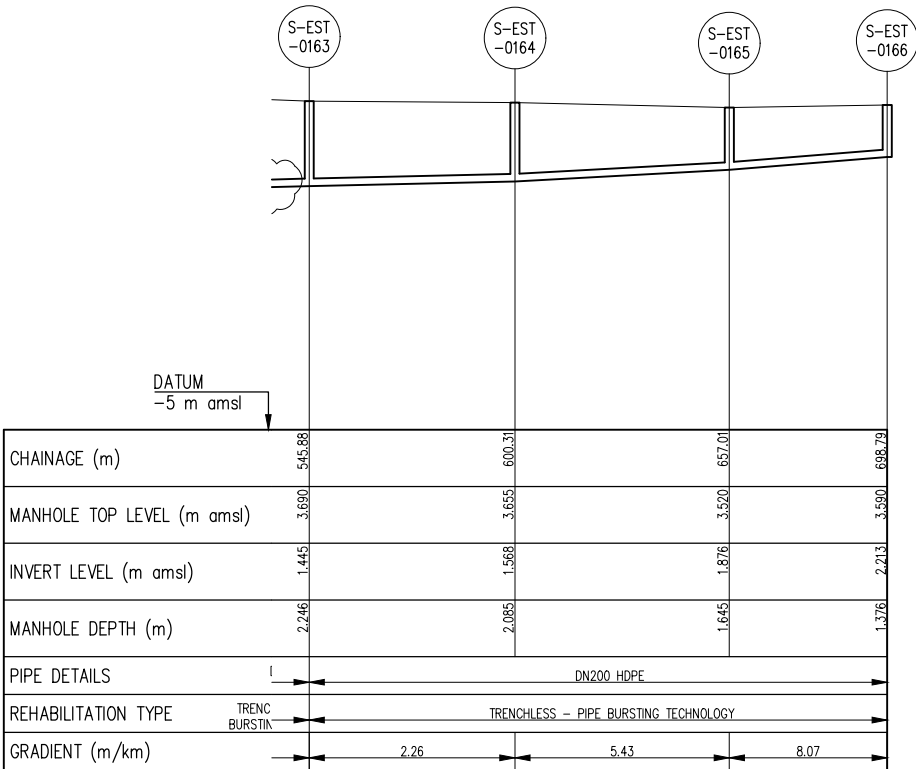
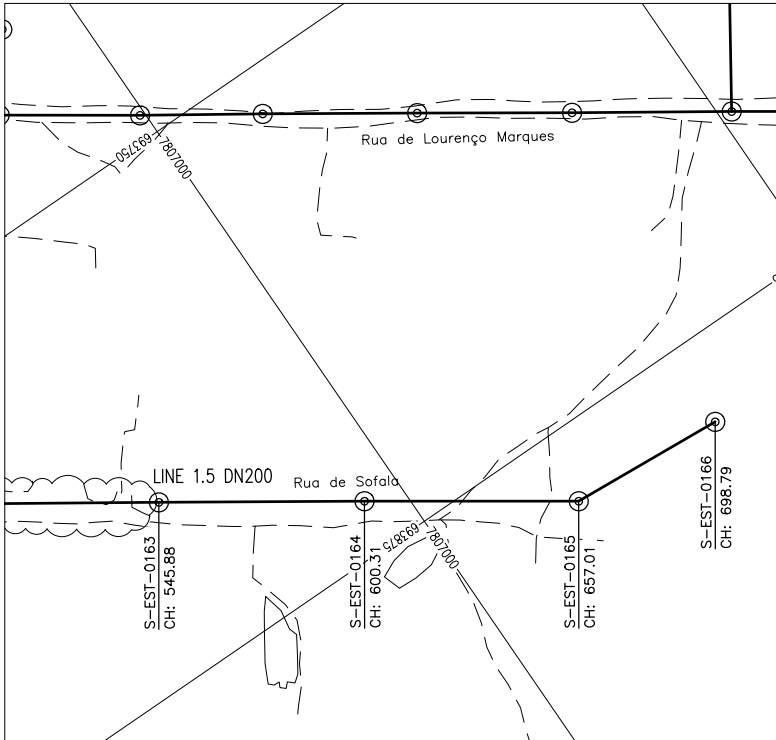
DRAWING TITLE:

CATCHMENT EE2–EE3
COLLECTOR SEWERLINE 1.5
PLAN AND PROFILE – SHEET 1 OF 2

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022

JOB No. MZSP00512E

DRAWING No.	Revision
EEAS/BSMP/MOZ/SN.CW.29	A B C D E F G H I J K L



COLLECTOR SEWERLINE 1.5 PROFILE –SHT2

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES
2. THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
3. THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
4. THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- ⊙ MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÓNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

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30 RUE MADELEINE VIONNET
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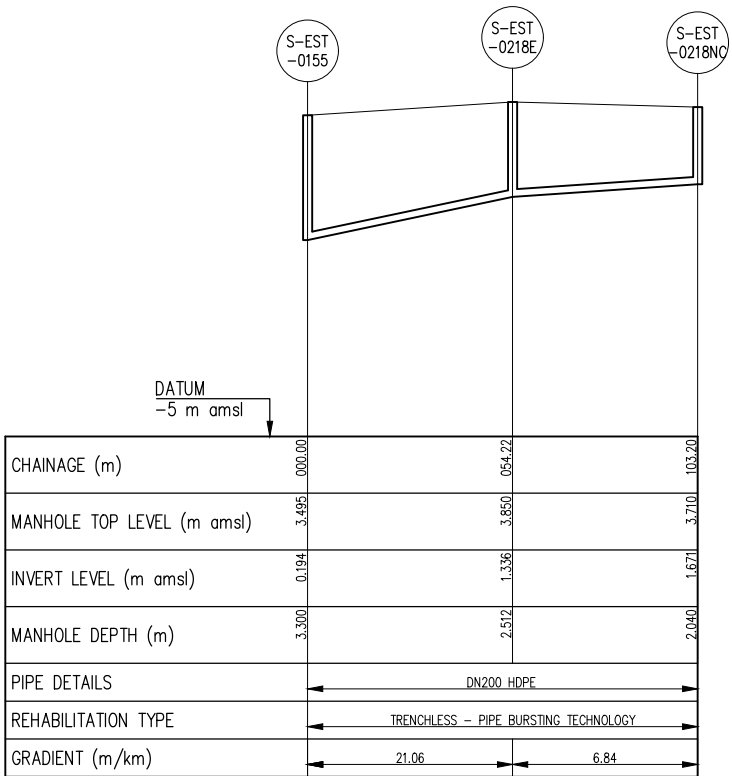
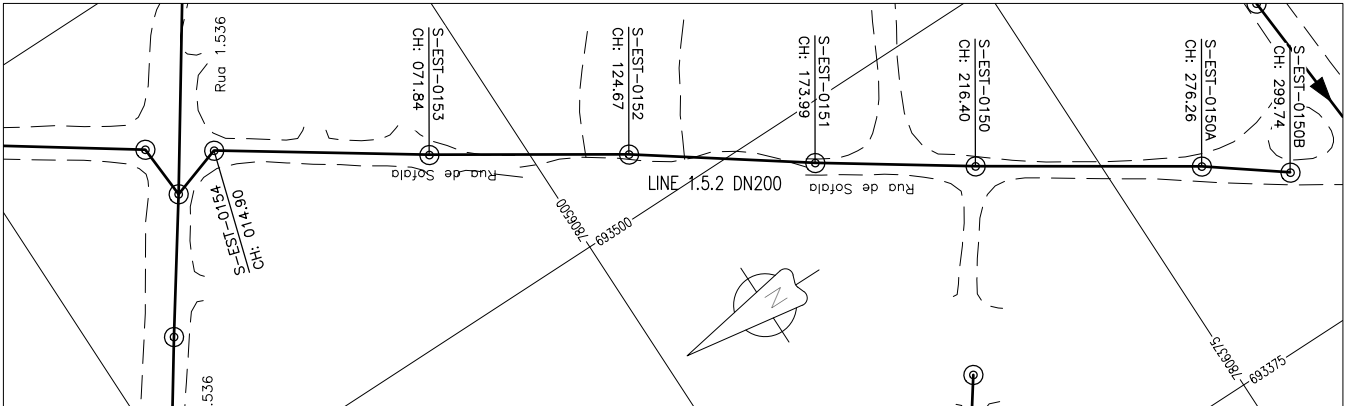
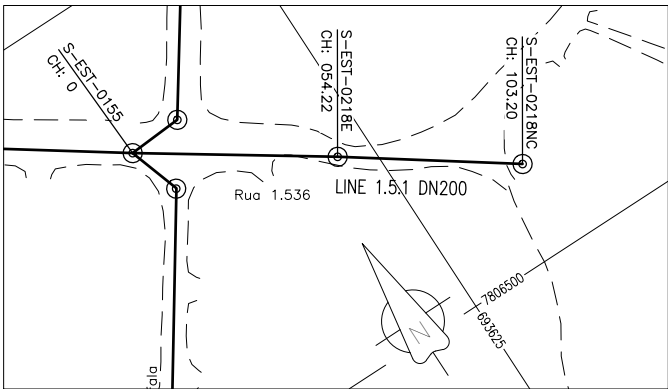
PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

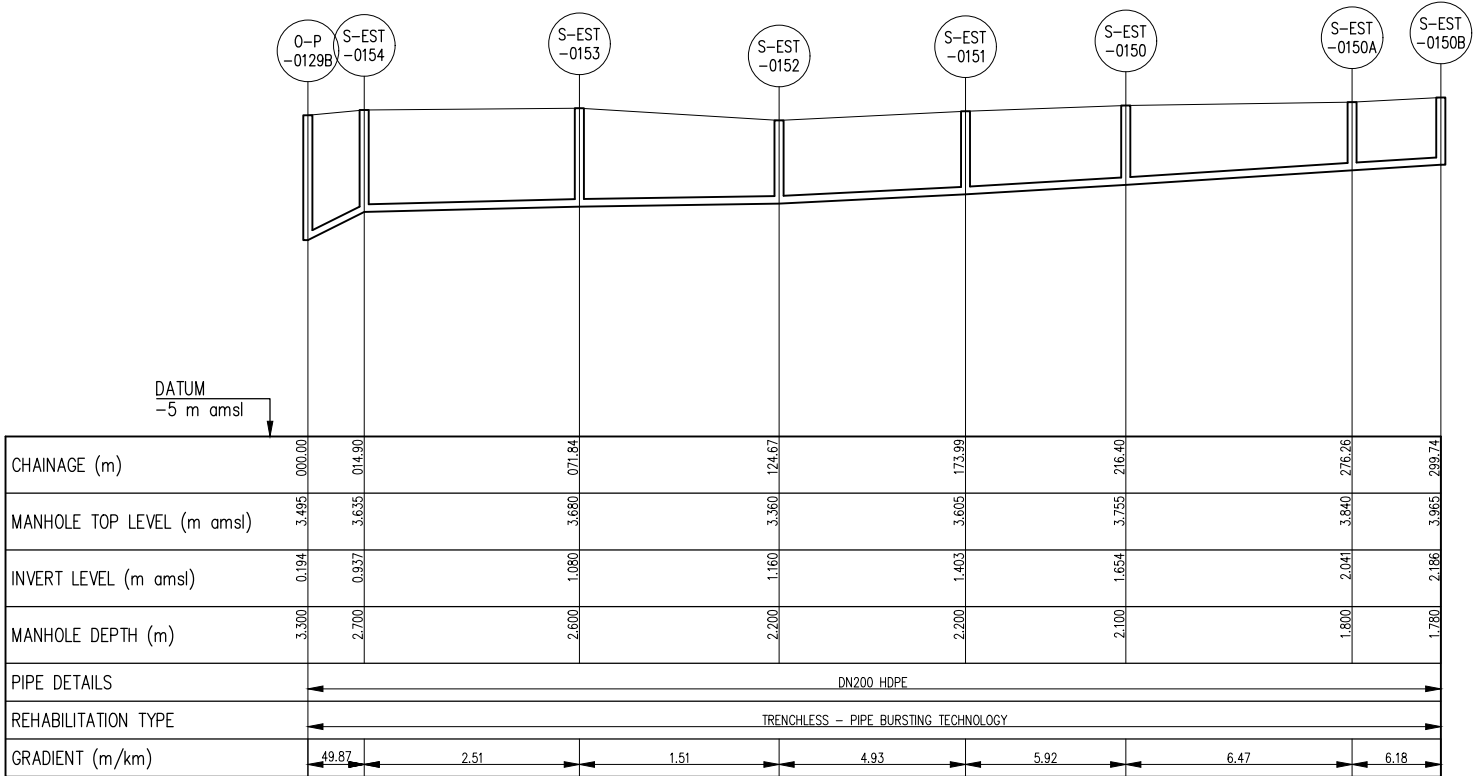
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CATCHMENT EE2–EE3
COLLECTOR SEWERLINE 1.5
PLAN AND PROFILE – SHEET 2 OF 2

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022
JOB No. MZSP00512E	
DRAWING No. EAS/BSMP/MOZ/SN.CW.29	Revision A B C D E F G H I J K L



COLLECTOR SEWERLINE 1.5.1 PROFILE



COLLECTOR SEWERLINE 1.5.2 PROFILE

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES
2. THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
3. THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
4. THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- ⊙ MANHOLE
- SEWER LINE
- - - ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:
SEURECA **VEOLIA** SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

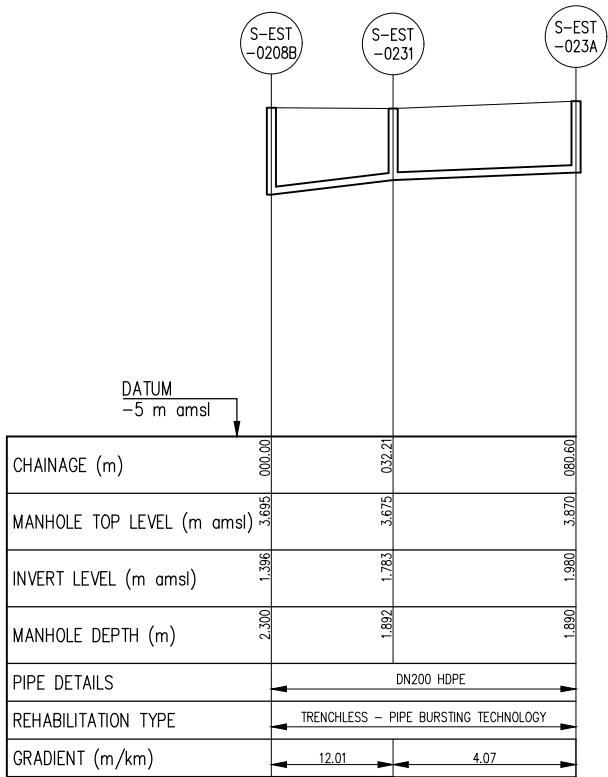
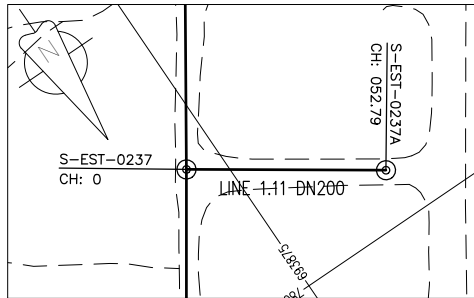
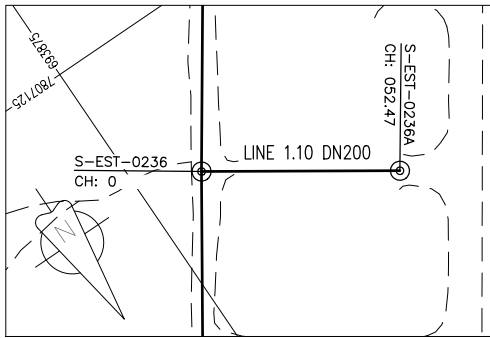
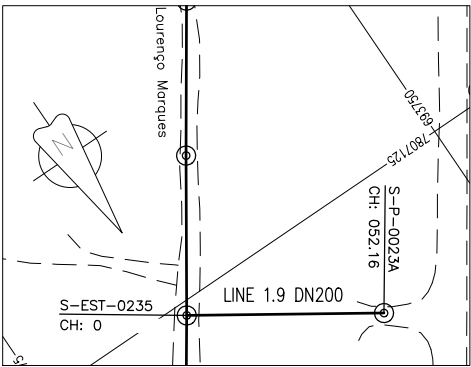
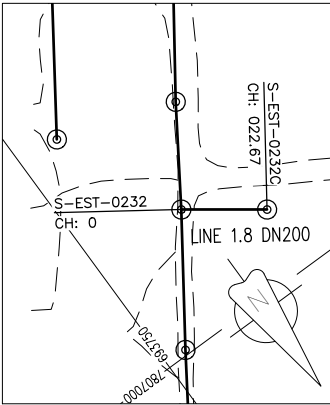
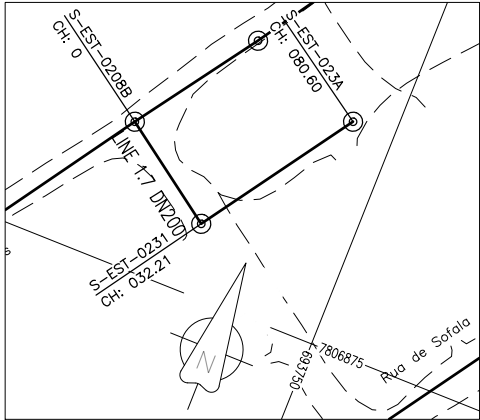
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

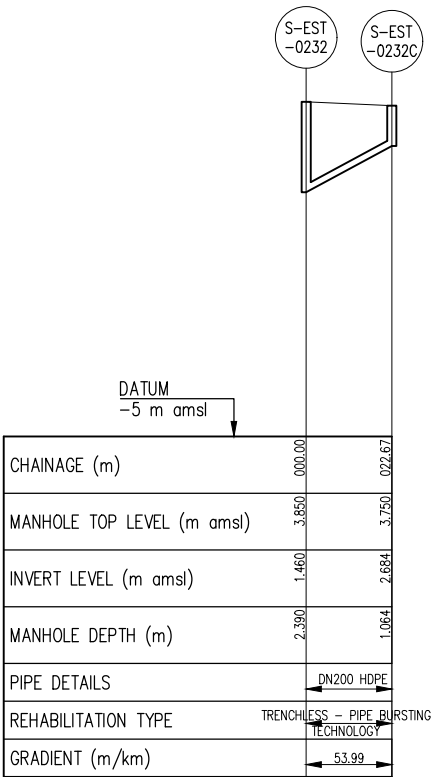
DRAWING TITLE:

CATCHMENT EE2-EE3
COLLECTOR SEWERLINE 1.5.1 & 1.5.2
PLAN AND PROFILE - SHEET 1 OF 1

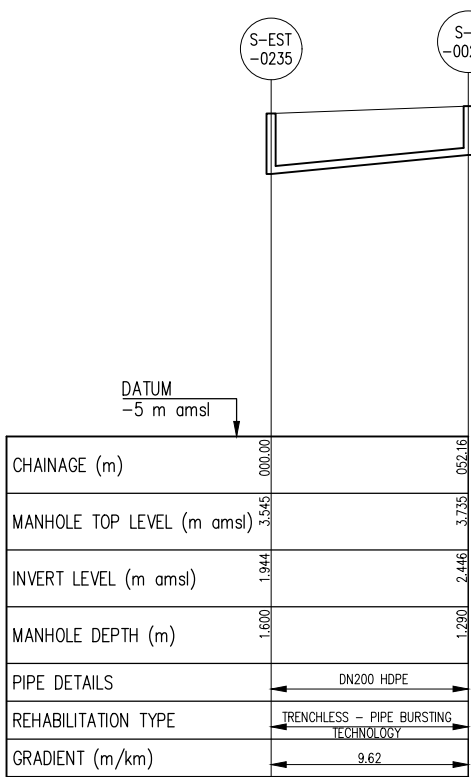
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CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.30	Revision A B C D E F G H I J K L



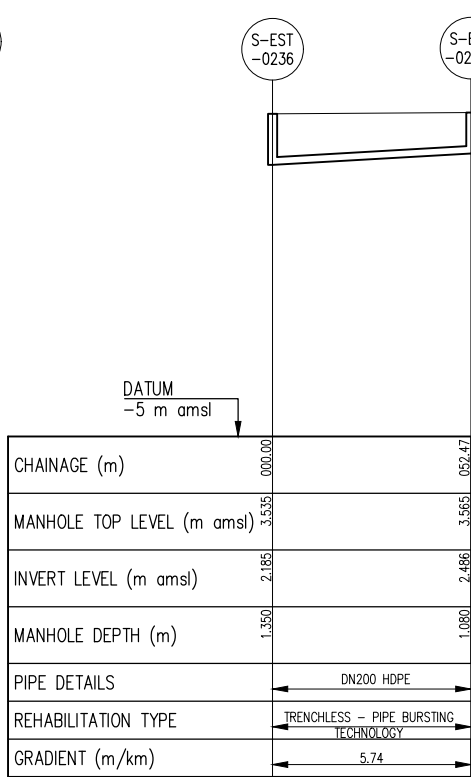
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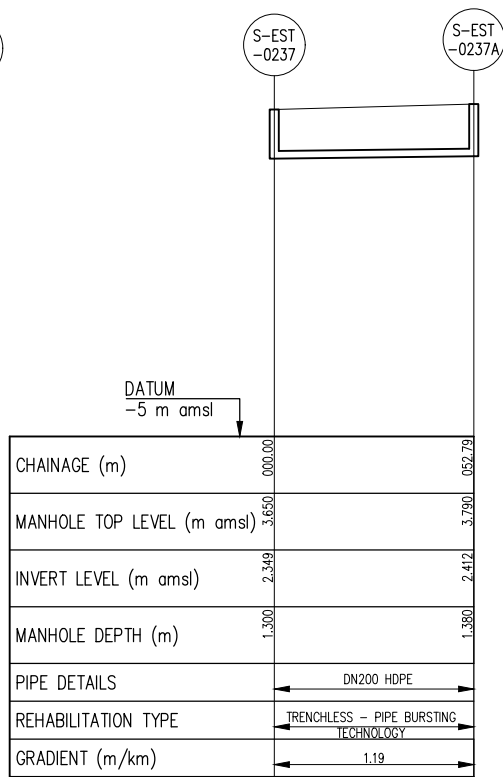
COLLECTOR 1.8



COLLECTOR 1.9



COLLECTOR 1.10



COLLECTOR 1.11

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- ⊙ MANHOLE
- SEWER LINE
- - - ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB

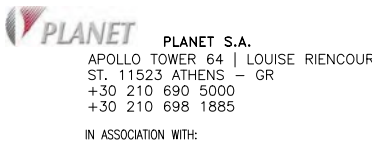


ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:



SEURECA SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

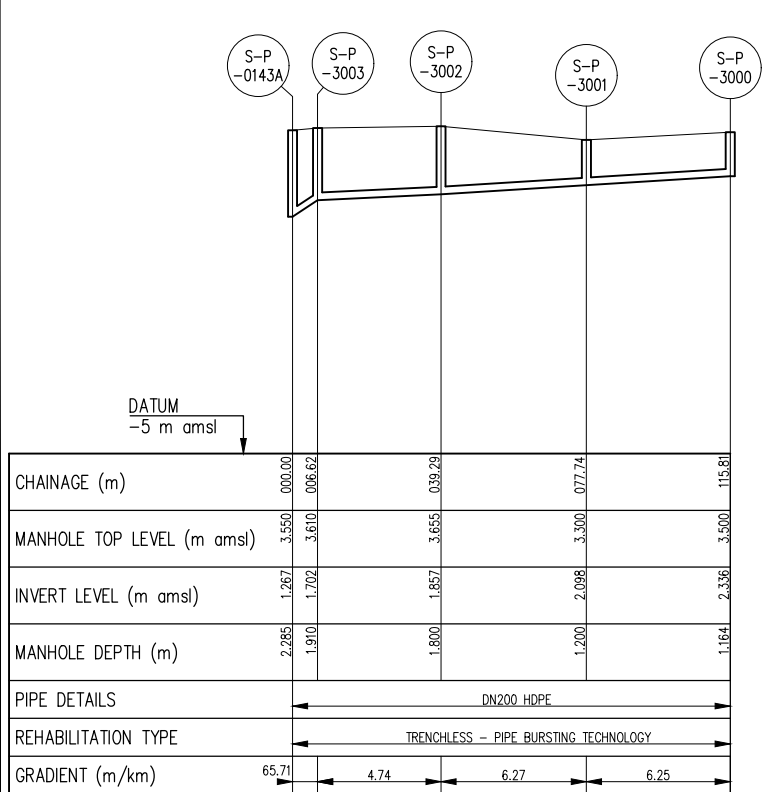
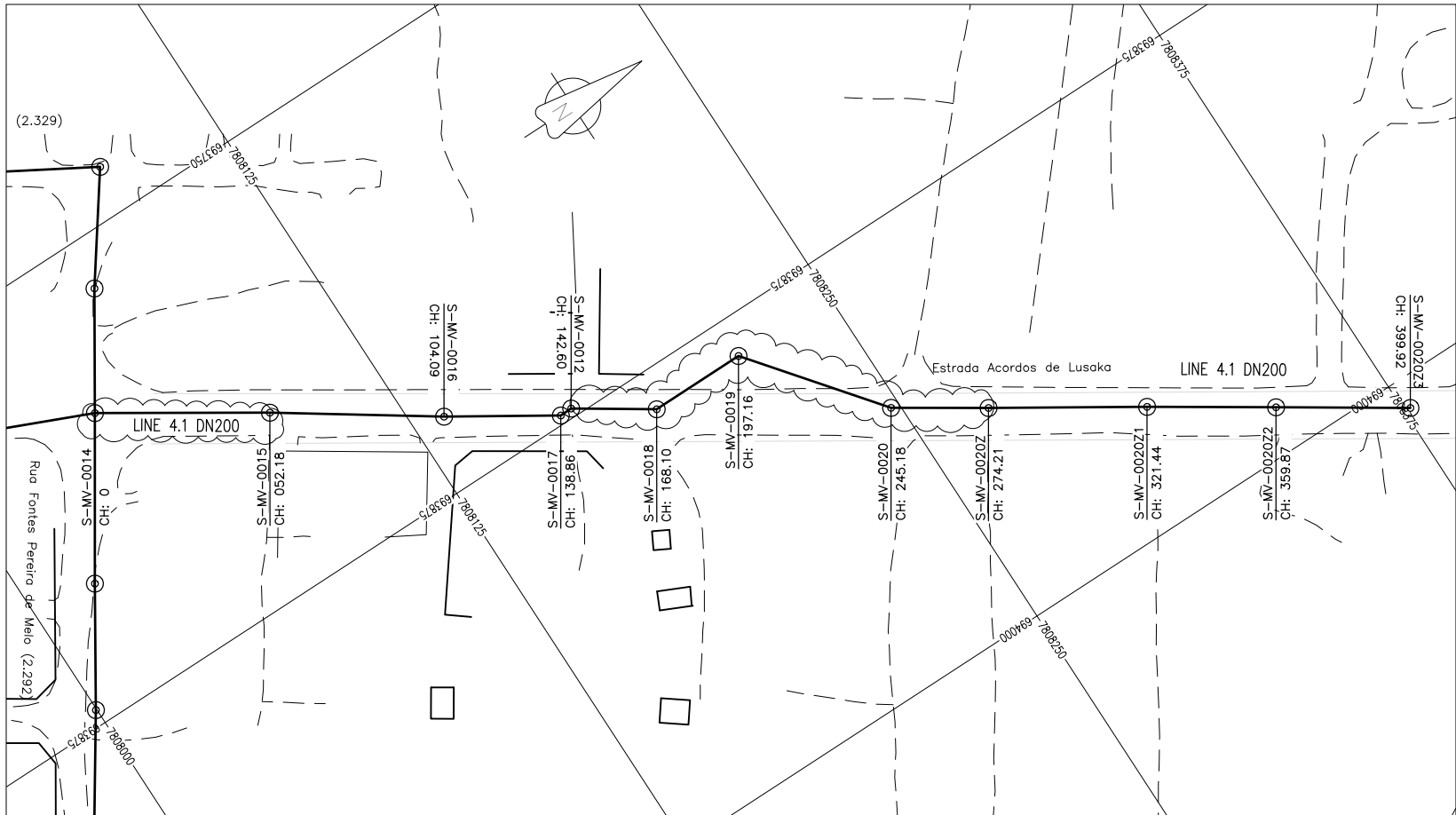
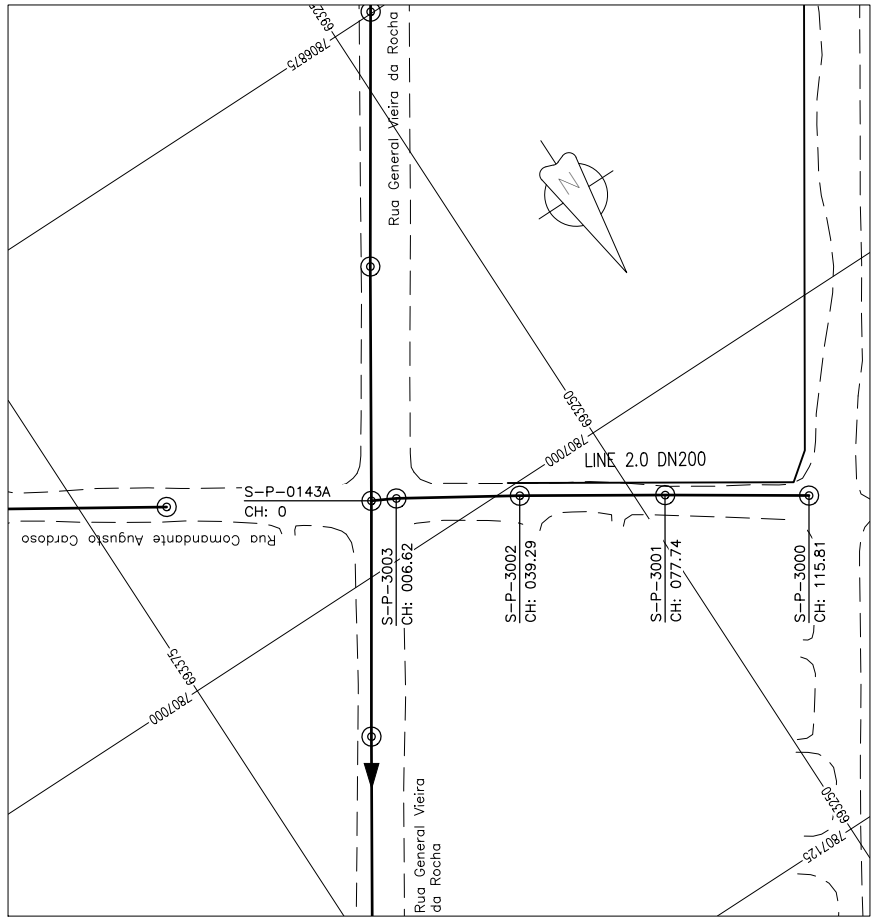
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

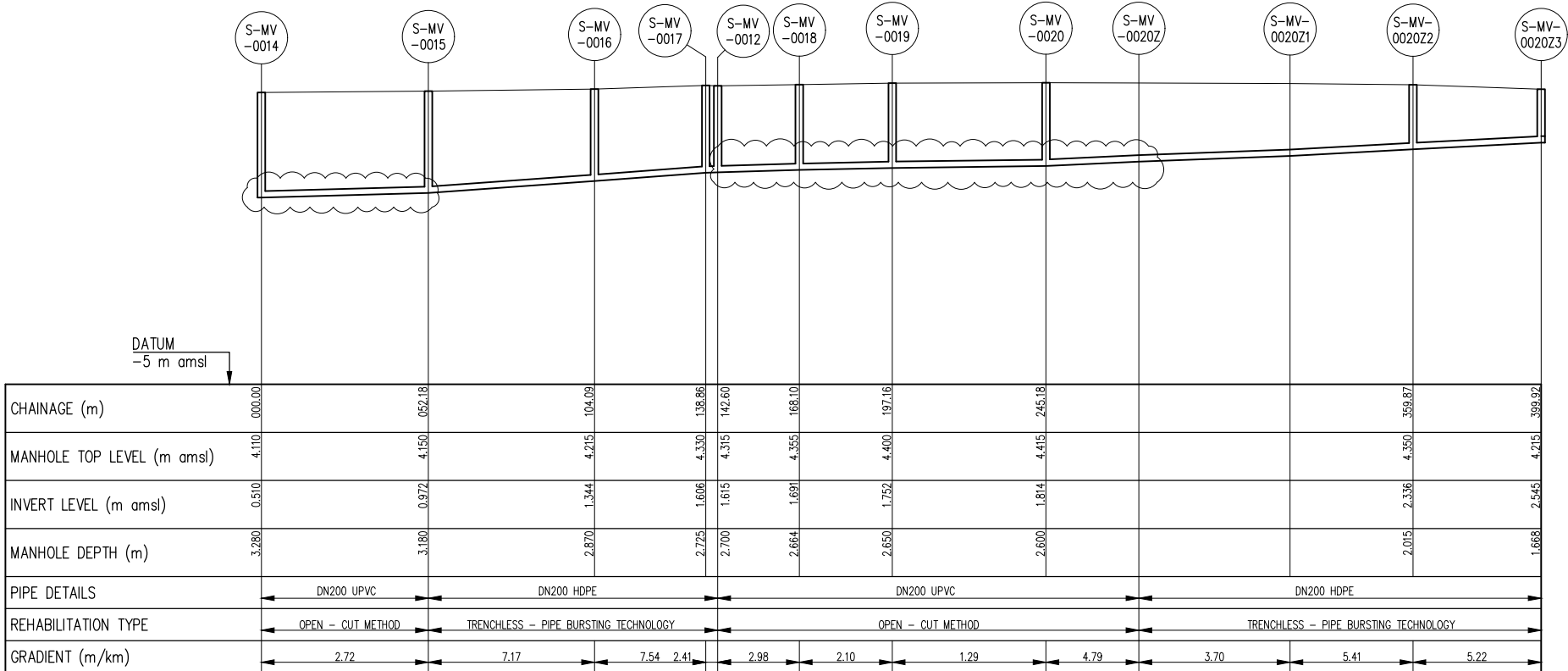
DRAWING TITLE:

CATCHMENT EE2-EE3, COLLECTOR SEWERLINES 1.7, 1.8, 1.9, 1.10 & 1.11
PLAN AND PROFILE - SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022
JOB No. MZSP00512E	
DRAWING No. EAS/BSMP/MOZ/SN.CW.31	Revision A B C D E F G H I J K L



COLLECTOR SEWERLINE 2.0 PROFILE



COLLECTOR SEWERLINE 4.1 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL
- UNOPENABLE MANHOLES DURING INSPECTION;
(I) S-MV-0020Z
(II) S-MV-0020Z1

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÖNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:



SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

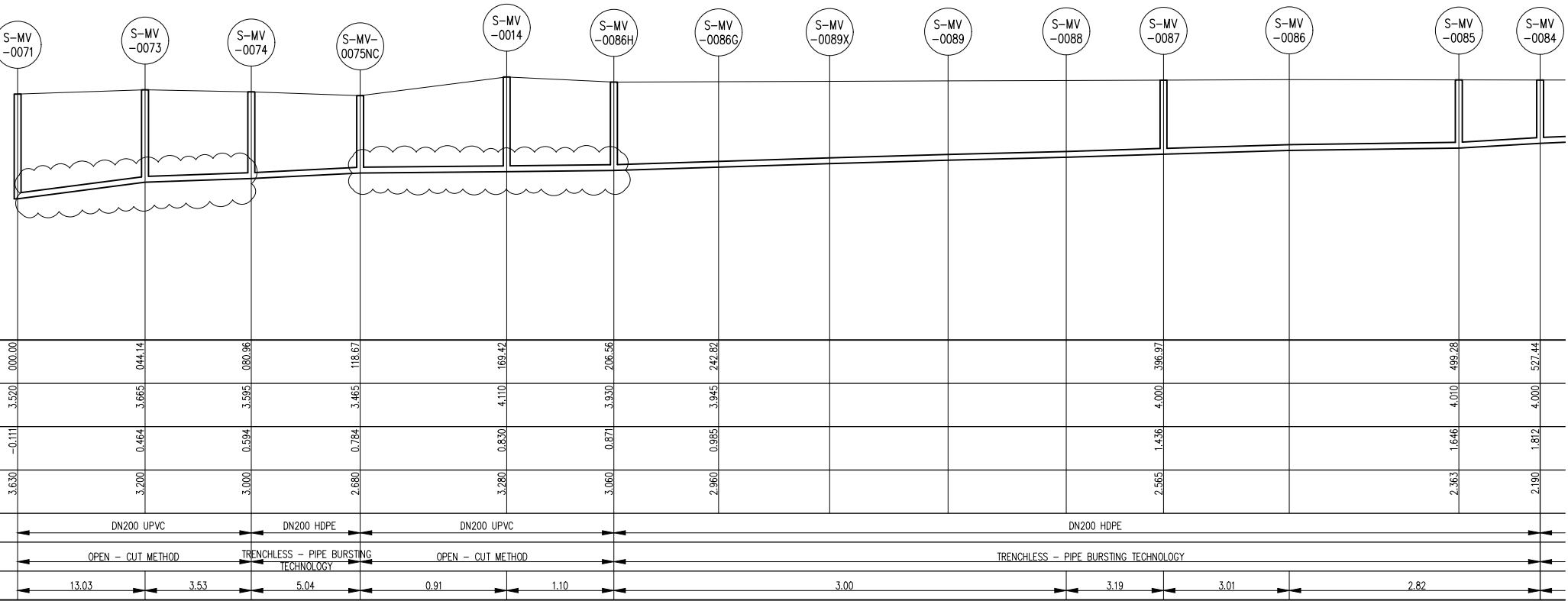
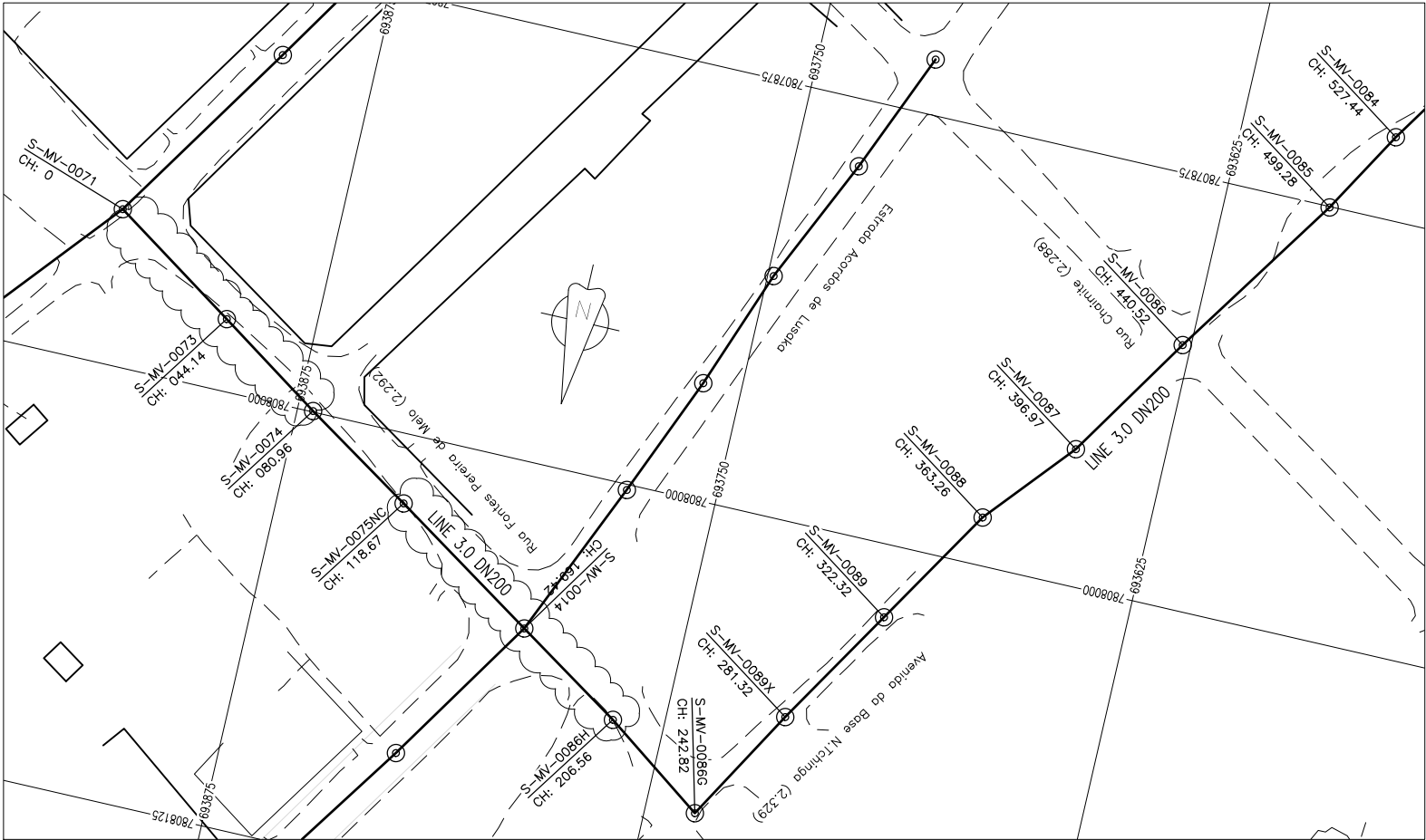
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS,
EUROPAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE2-EE3
COLLECTOR SEWERLINES 2.0 & 4.1
PLAN AND PROFILE - SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022
JOB No. MZSP00512E	
DRAWING No.	Revision
EEAS/BSMP/MOZ/SN.CW.32	A B C D E F G H I J K L



COLLECTOR SEWERLINE 3.0 PROFILE – SHT1

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL
- UNOPENABLE MANHOLES DURING INSPECTION;
(I) S-MV-0086G
(II) S-MV-0089X
(III) S-MV-0089
(IV) S-MV-0088
(V) S-MV-0085

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÖNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:
 SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

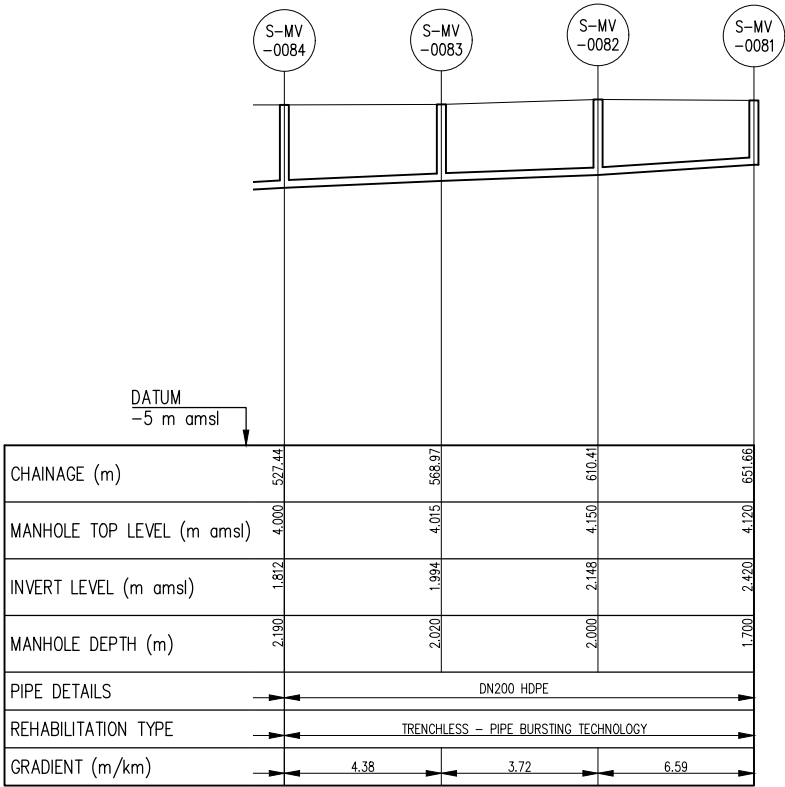
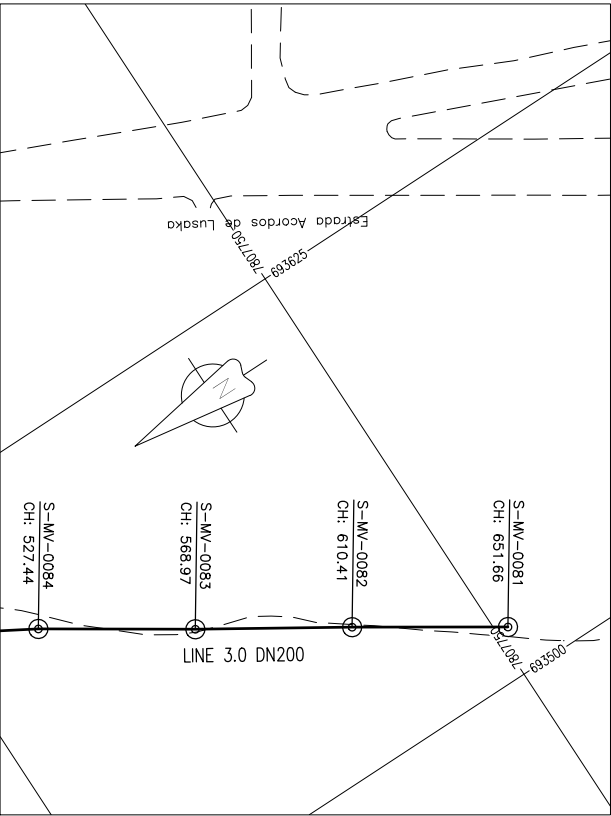
FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE2–EE3
COLLECTOR SEWERLINE 3.0
PLAN AND PROFILE – SHEET 1 OF 2

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022

JOB No. MZSP00512E	Revision
DRAWING No. EEAS/BSMP/MOZ/SN.CW.33	A B C D E F G H I J K L



COLLECTOR SEWERLINE 3.0 PROFILE – SHT2

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES
2. THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
3. THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
4. THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL

LEGEND

- ⊙ MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA VEOLIA SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

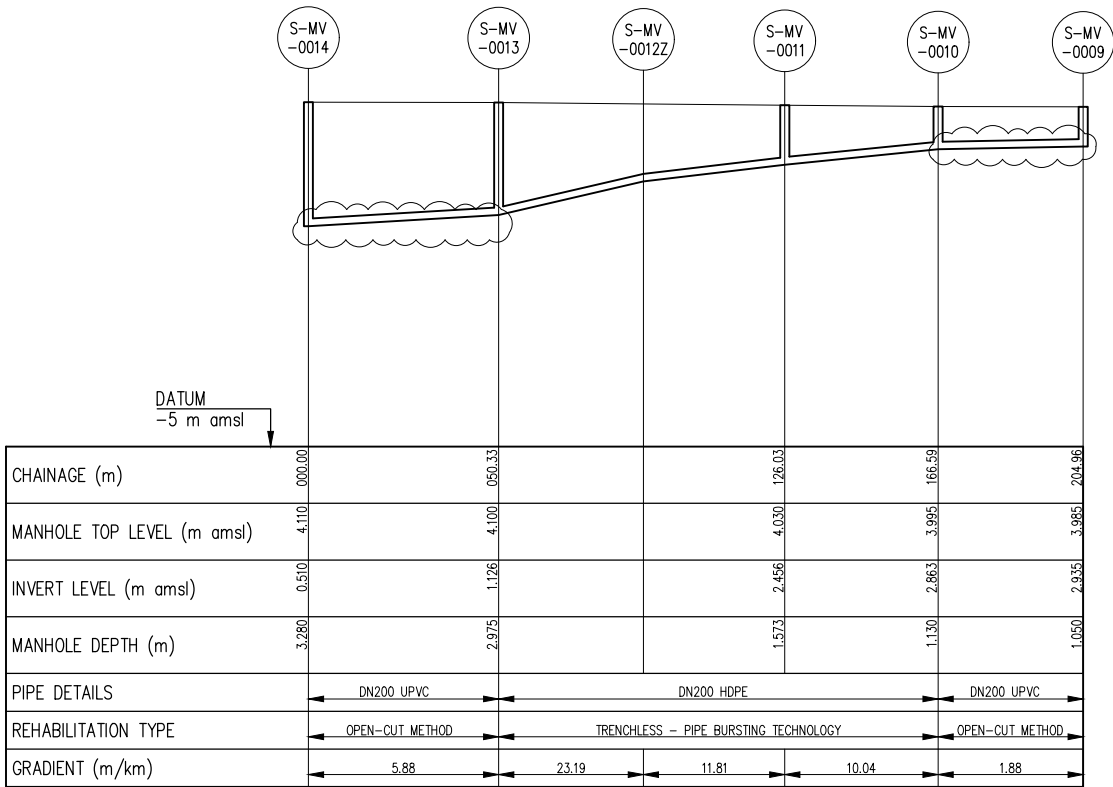
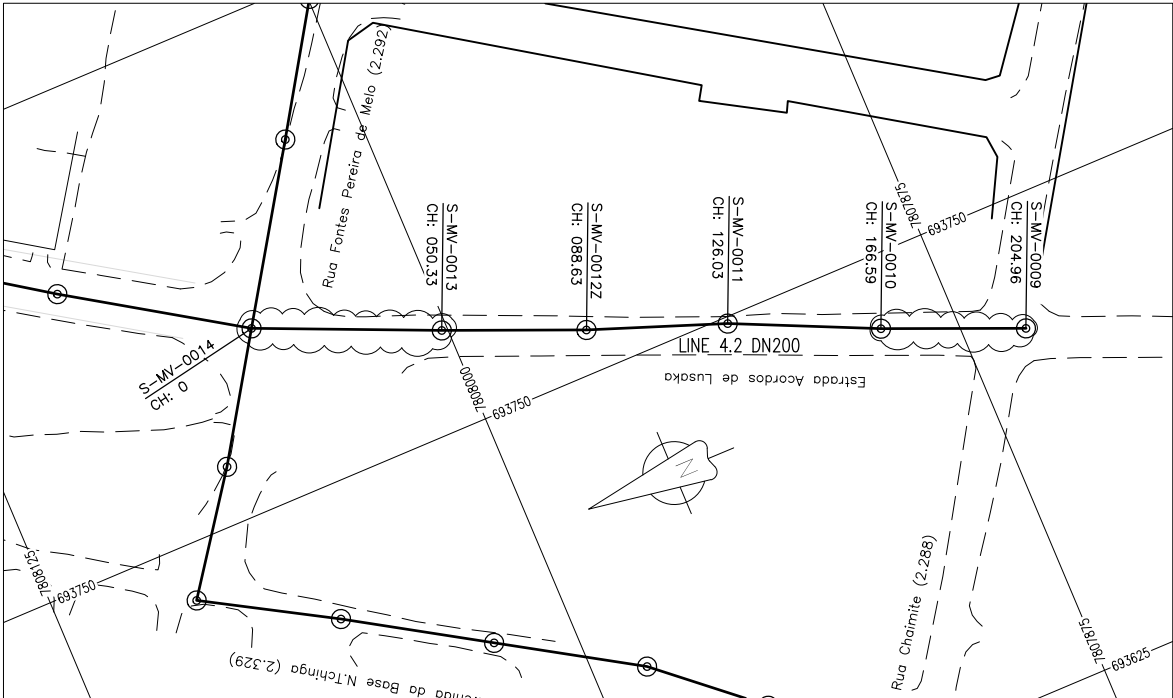
FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE2–EE3
COLLECTOR SEWERLINE 3.0
PLAN AND PROFILE – SHEET 2 OF 2

DESIGN BY:	PM	DRAWN BY:	KC
CHECKED BY:	MJB	APPROVED BY:	JF
SCALE:	Hor 1:1000, Ver 1:100	DATE:	MAR 2022

JOB No. MZSP00512E	Revision
DRAWING No. EEAS/BSMP/MOZ/SN.CW.33	A B C D E F G H I J K L



COLLECTOR SEWERLINE 4.2 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL
- UNOPENABLE MANHOLES DURING INSPECTION;
(I) S-MV-0012Z

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÖNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE
BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

 SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

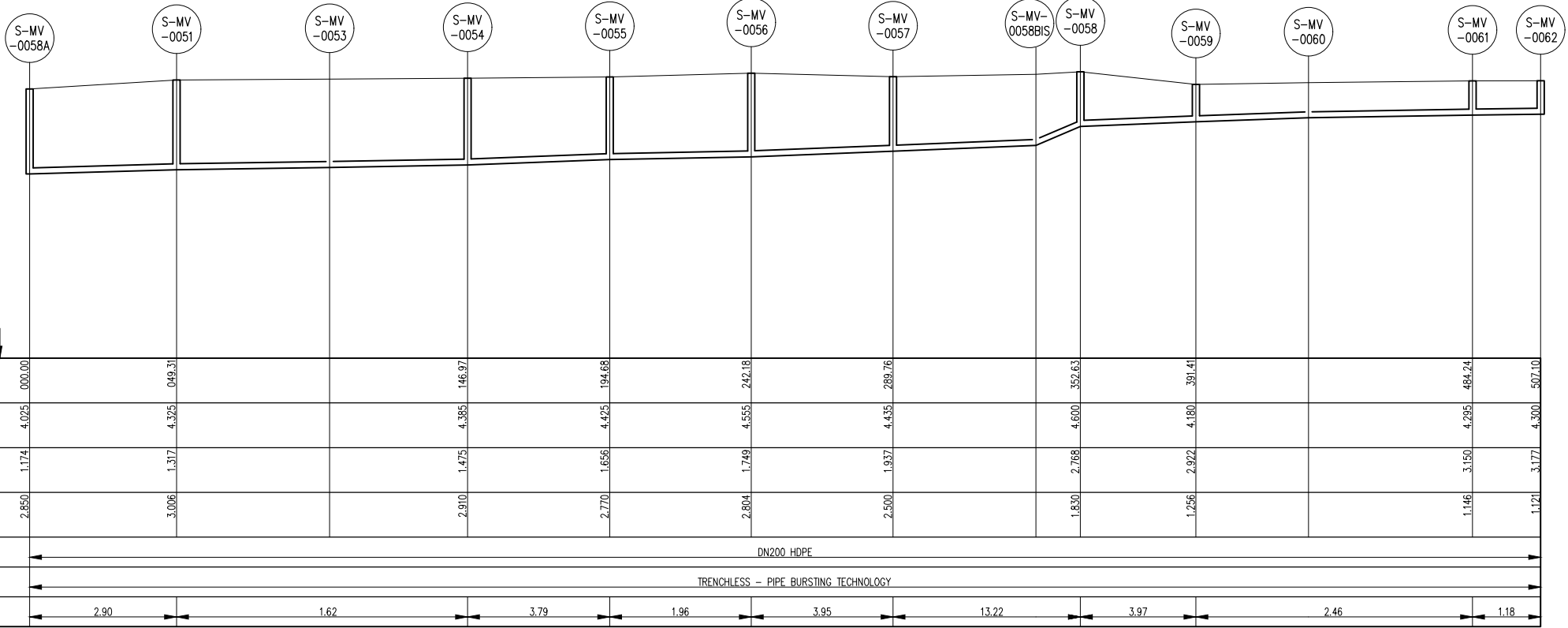
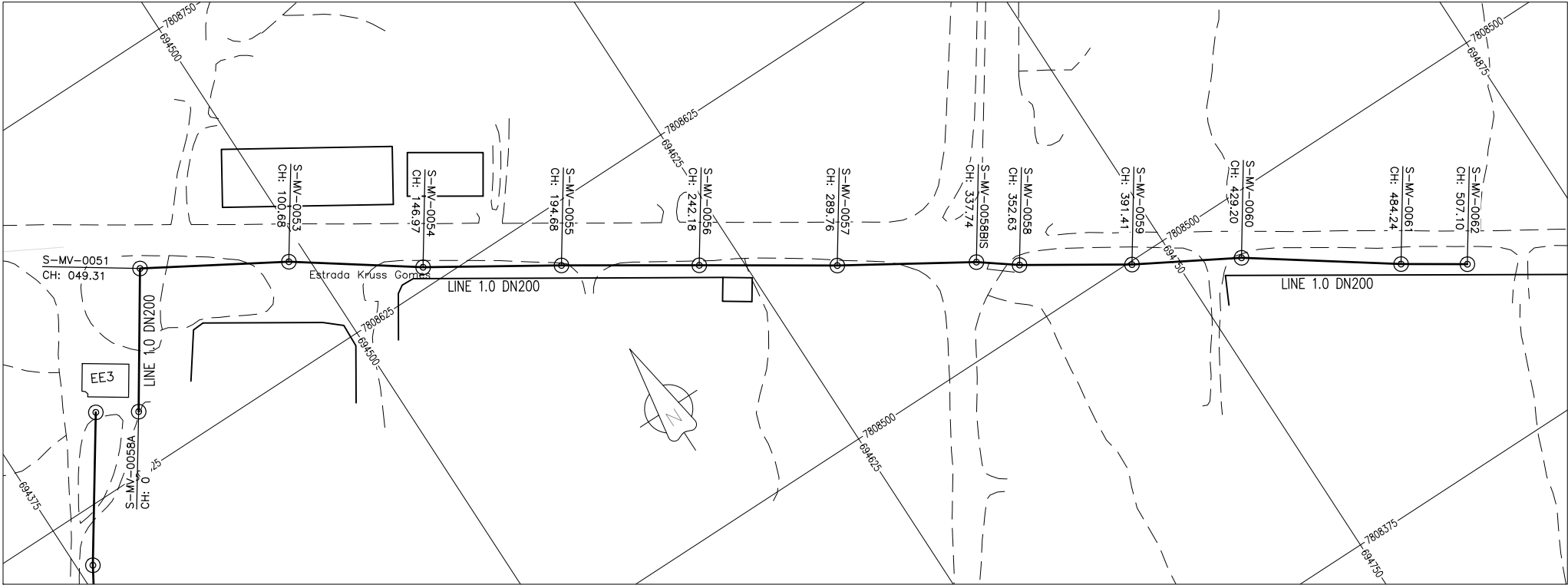
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BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE2–EE3
COLLECTOR SEWERLINE 4.2
PLAN AND PROFILE – SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022

JOB No. MZSP00512E	Revision
DRAWING No.	A B C D E F
EEAS/BSMP/MOZ/SN.CW.34	G H I J K L



COLLECTOR SEWERLINE 1.0 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL
- UNOPENABLE MANHOLES DURING INSPECTION;
(I) S-MV-0053
(II) S-MV-0058BIS
(III) S-MV-0060

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

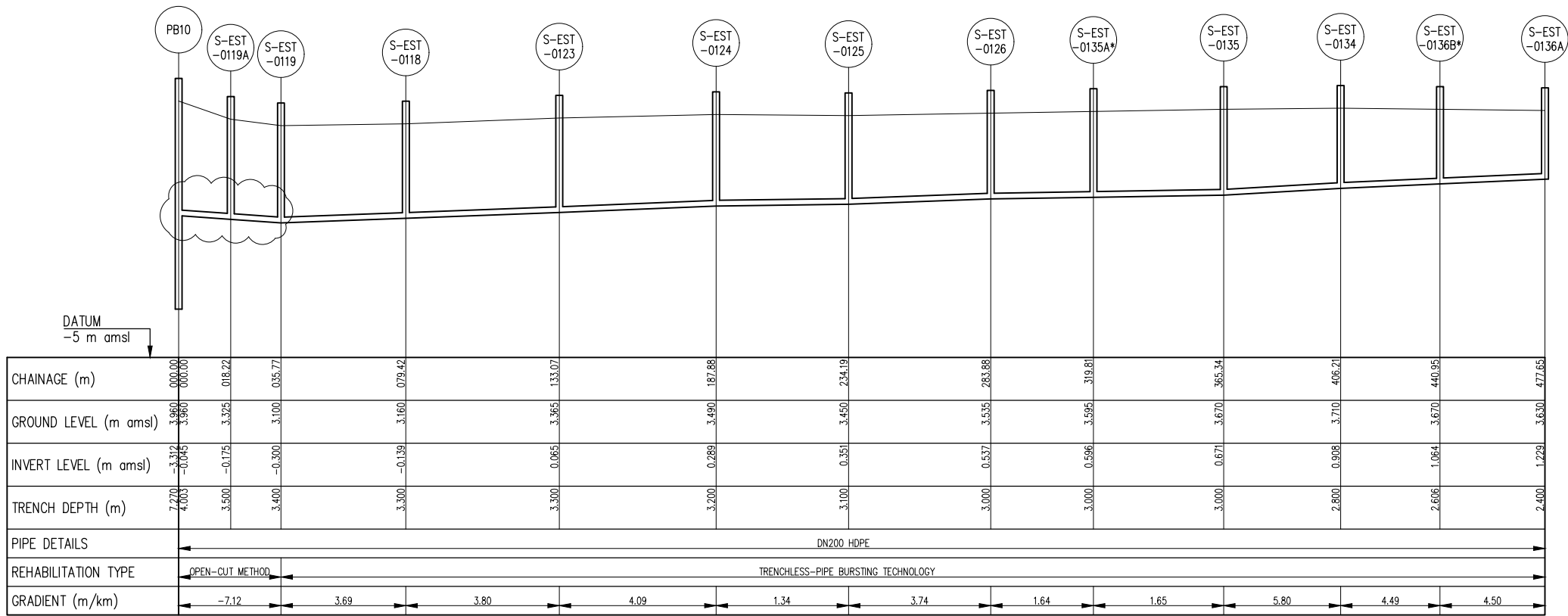
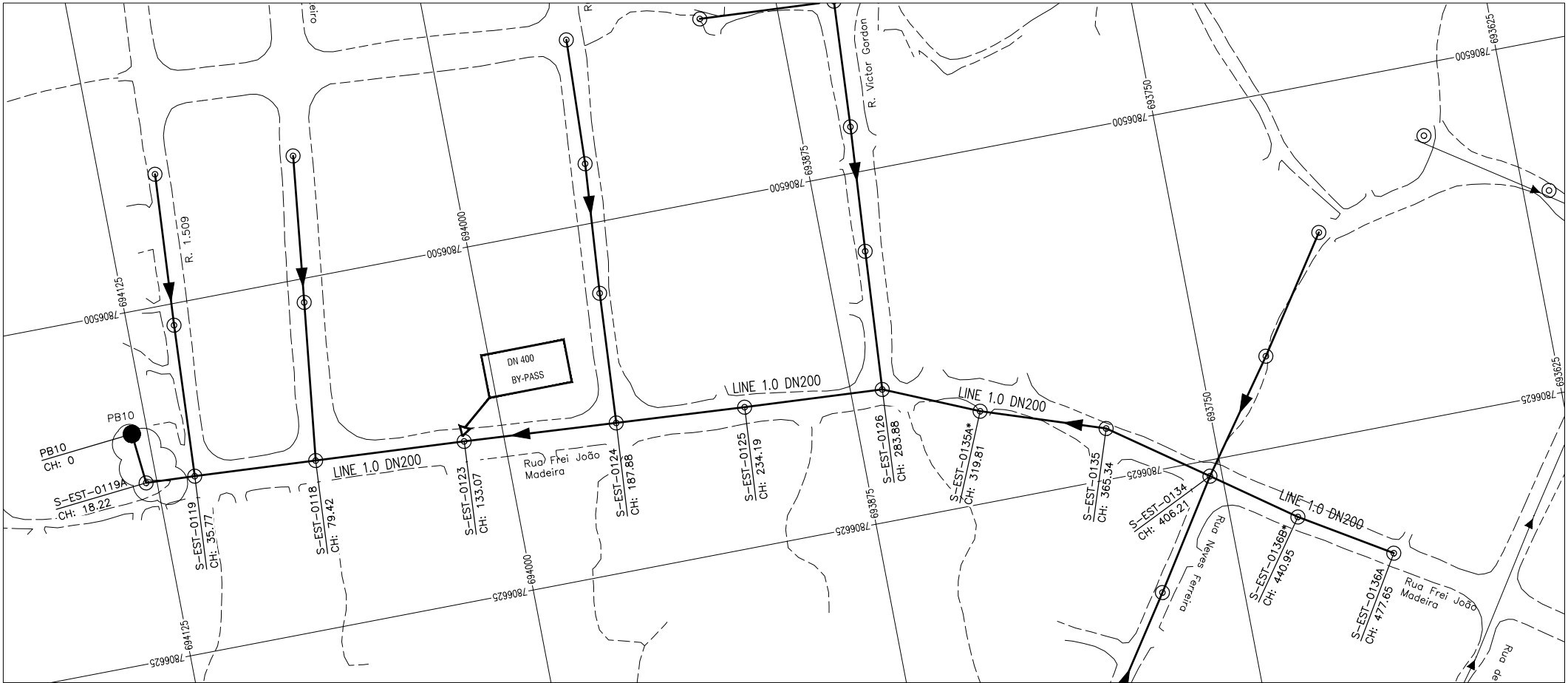
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

CATCHMENT EE3-EE4
COLLECTOR SEWERLINE 1.0
PLAN AND PROFILE - SHEET 1 OF 1

DESIGN BY: PM	DRAWN BY: KC
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.35	Revision A B C D E F G H I J K L



SEWERLINE PB10/1.0 PROFILE

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES
2. THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
3. THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
4. THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL
5. UNOPENABLE MANHOLES DURING INSPECTION;
(I) S-EST-0232B

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA **VEOLIA** SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

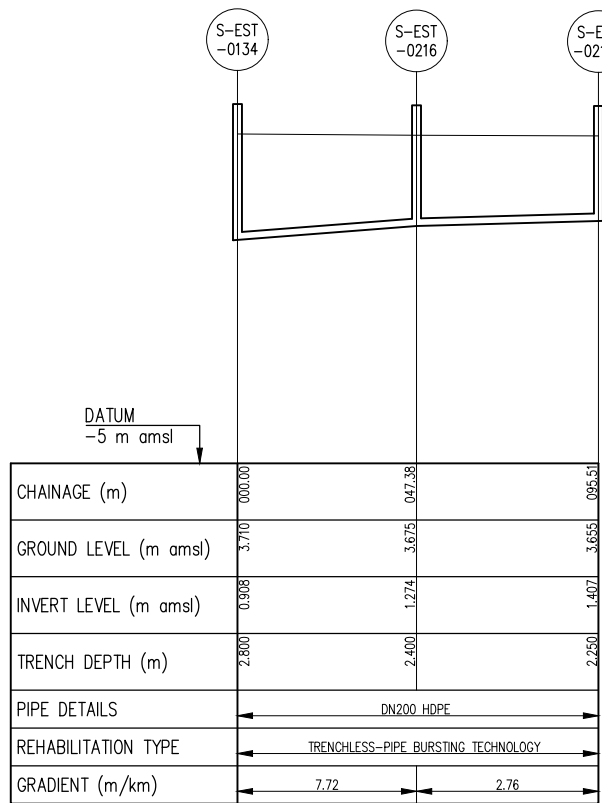
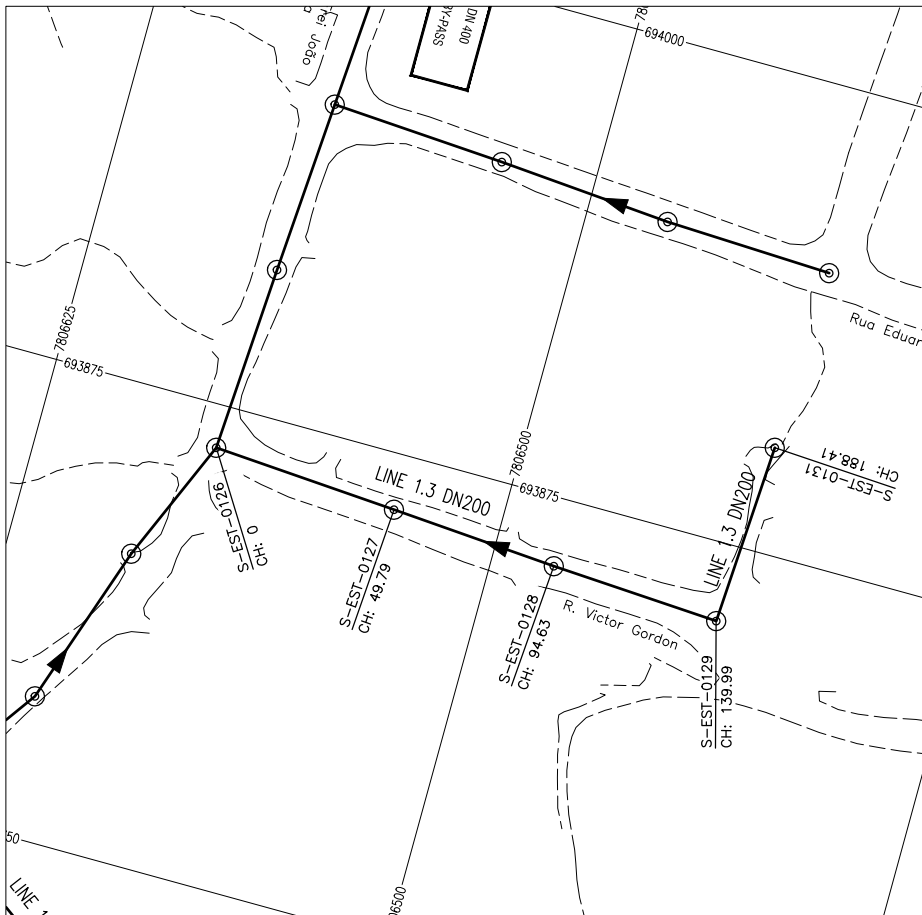
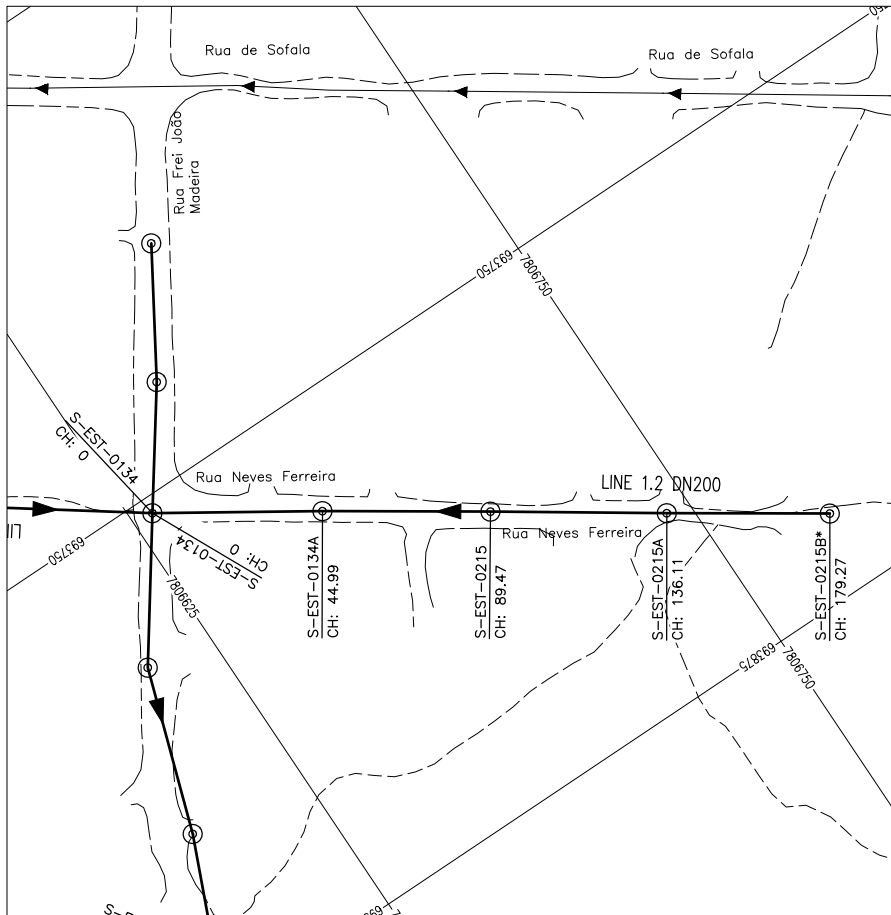
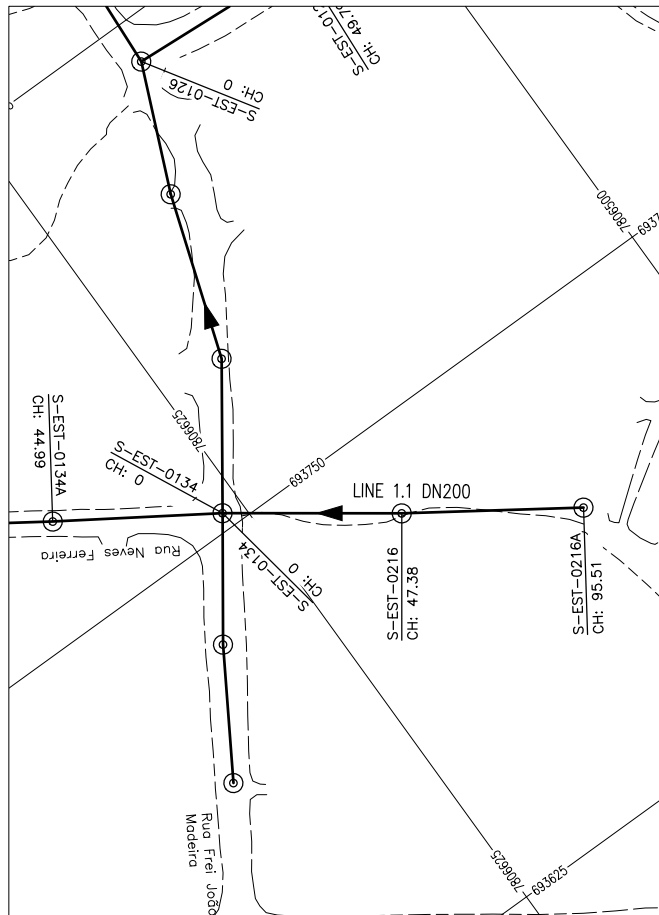
FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

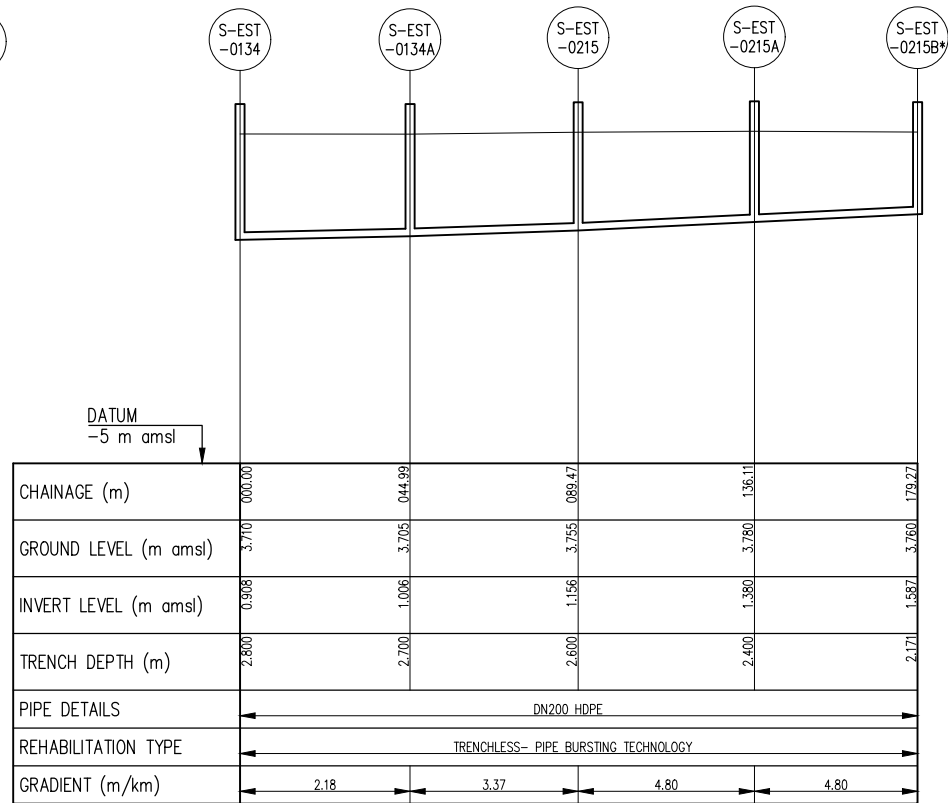
CATCHMENT PB10 COLLECTOR
SEWERLINE 1.0
PLAN AND PROFILE

DESIGN BY: PM	DRAWN BY: AW
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022

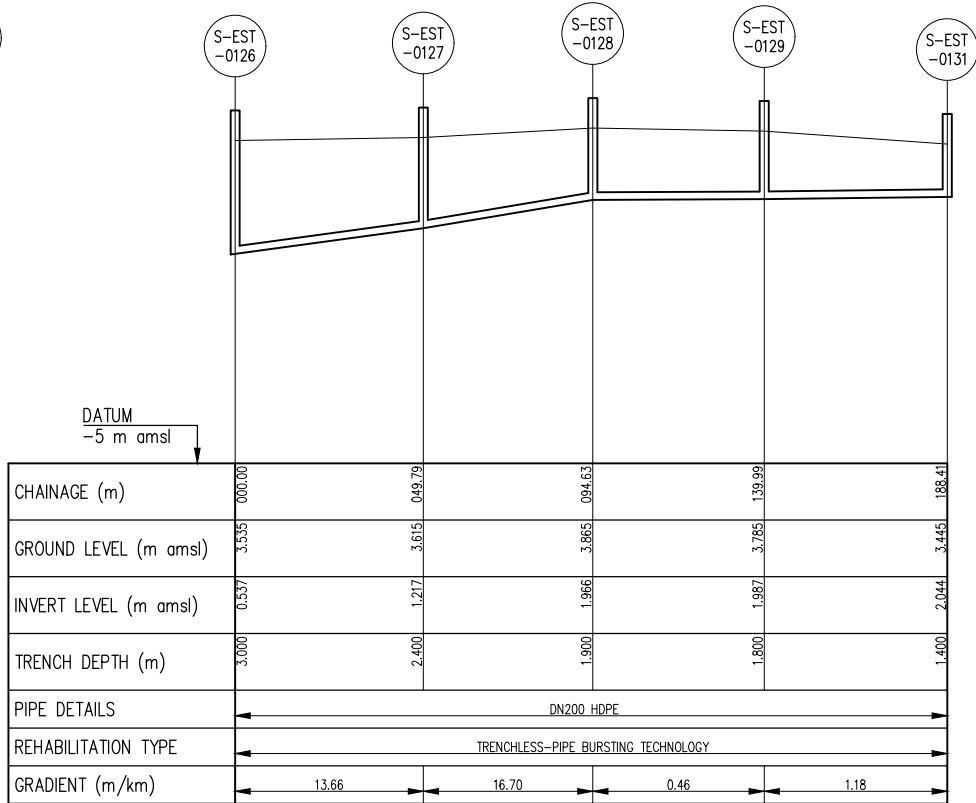
JOB No. MZSP00512E	Revision
DRAWING No. EEAS/BSMP/MOZ/SN.CW.36	A B C D E F G H I J K L



SEWERLINE PB10/1.1 PROFILE



SEWERLINE PB10/1.2 PROFILE



SEWERLINE PB10/1.3 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL
- UNOPENABLE MANHOLES DURING INSPECTION;
(I) S-EST-0232B

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM
BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:
SEURECA VEOLIA SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

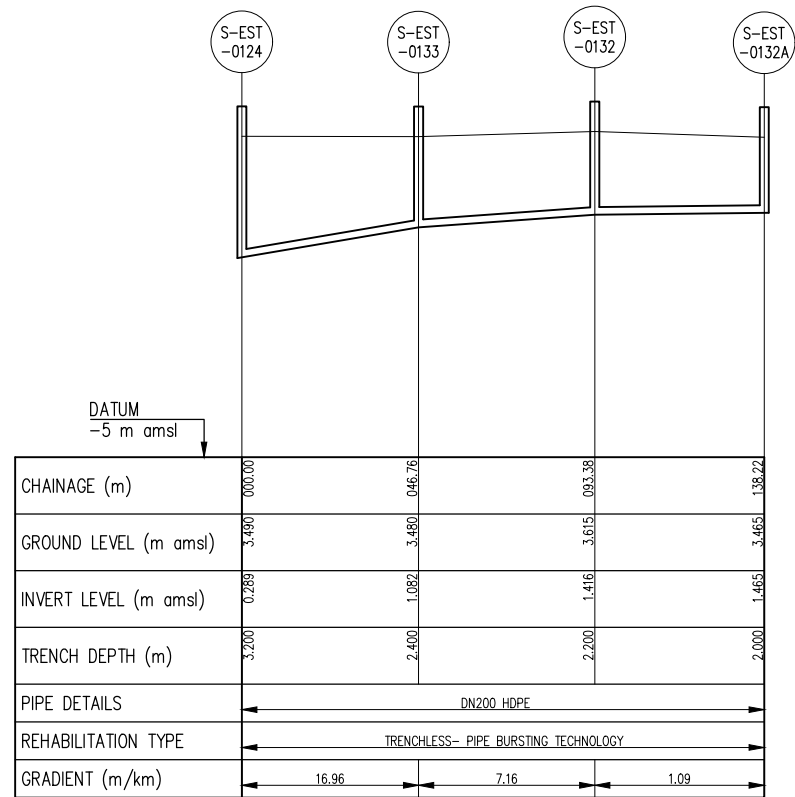
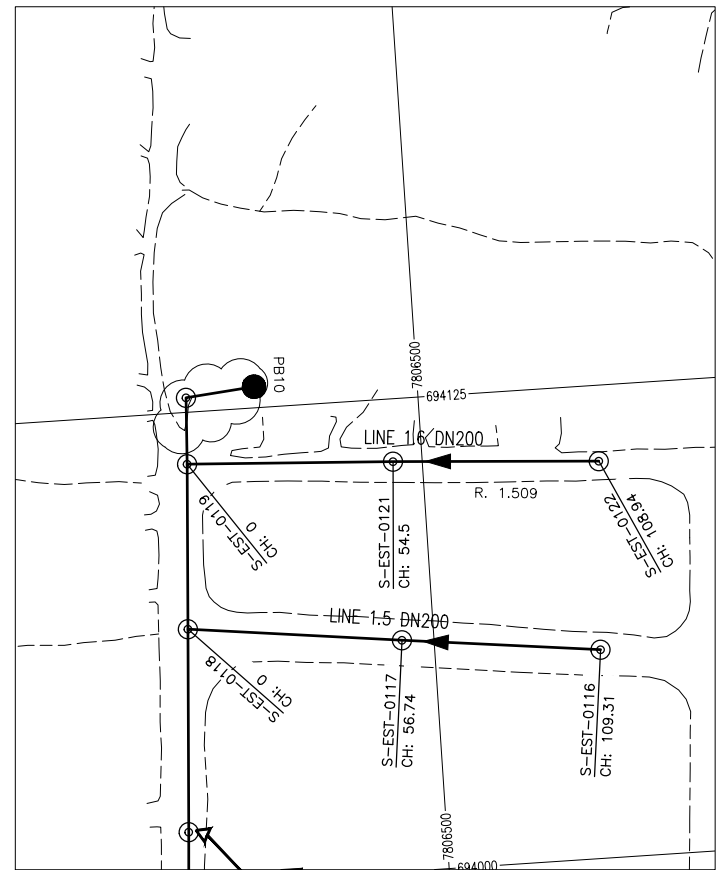
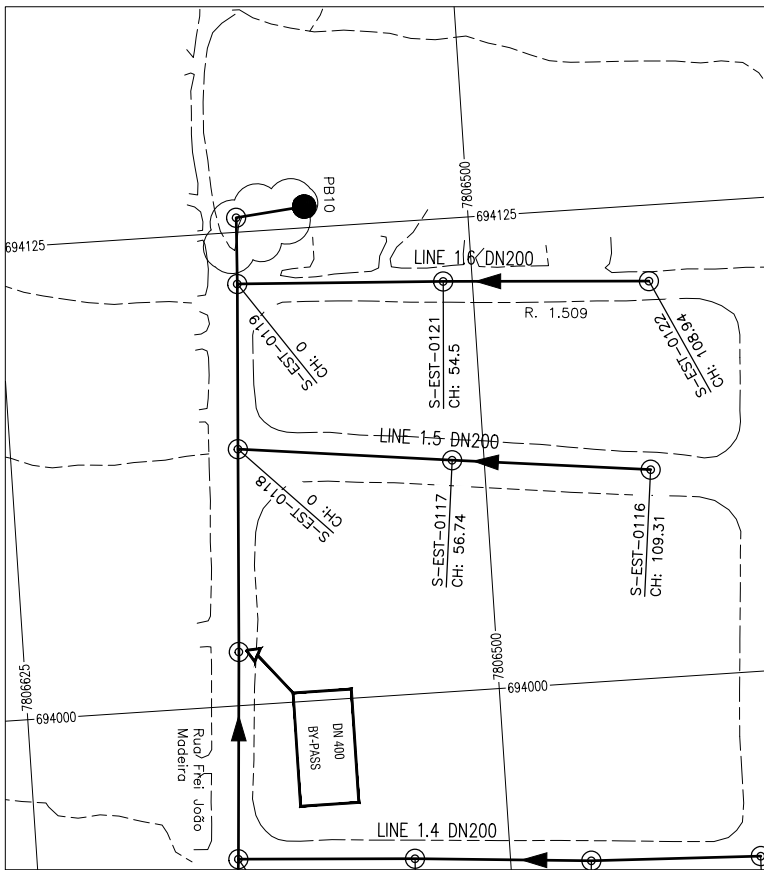
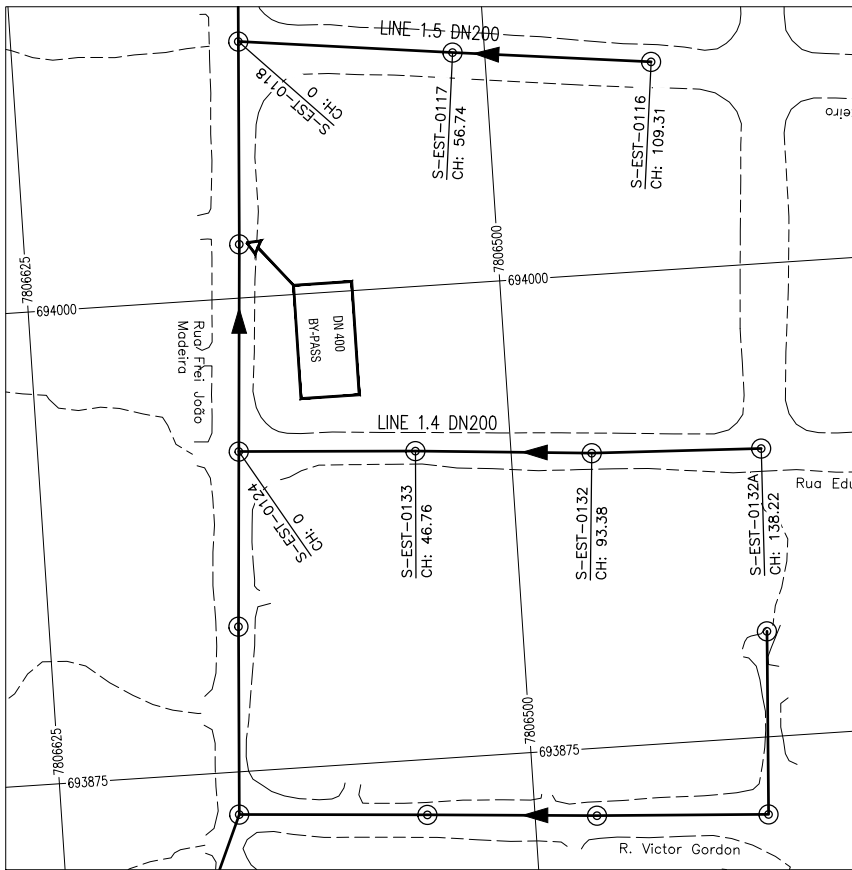
FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

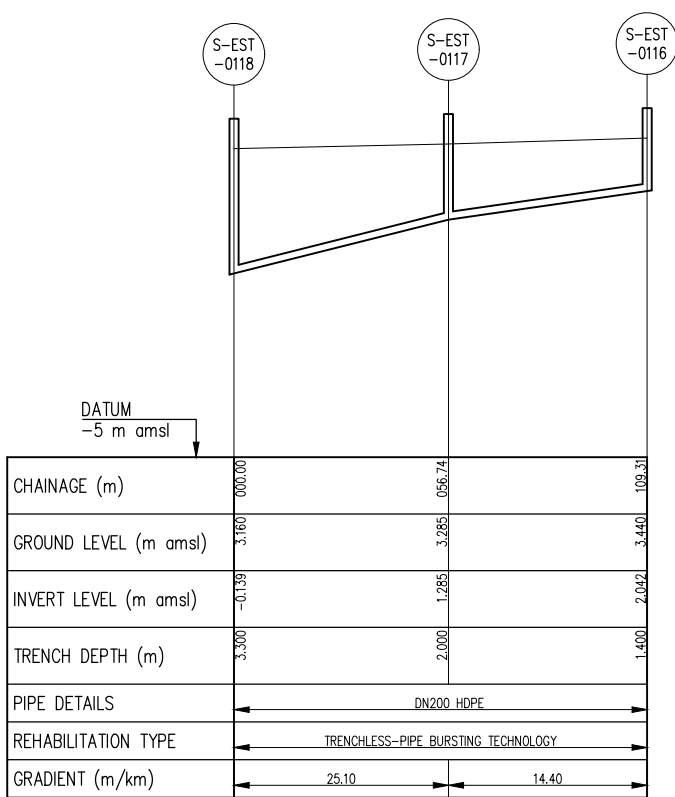
CATCHMENT PB10 COLLECTOR
SEWERLINE 1.1, 1.2 & 1.3
PLAN AND PROFILE

DESIGN BY: PM	DRAWN BY: AW
CHECKED BY: MJB	APPROVED BY: JF
SCALE: Hor 1:1000, Ver 1:100	DATE: MAR 2022

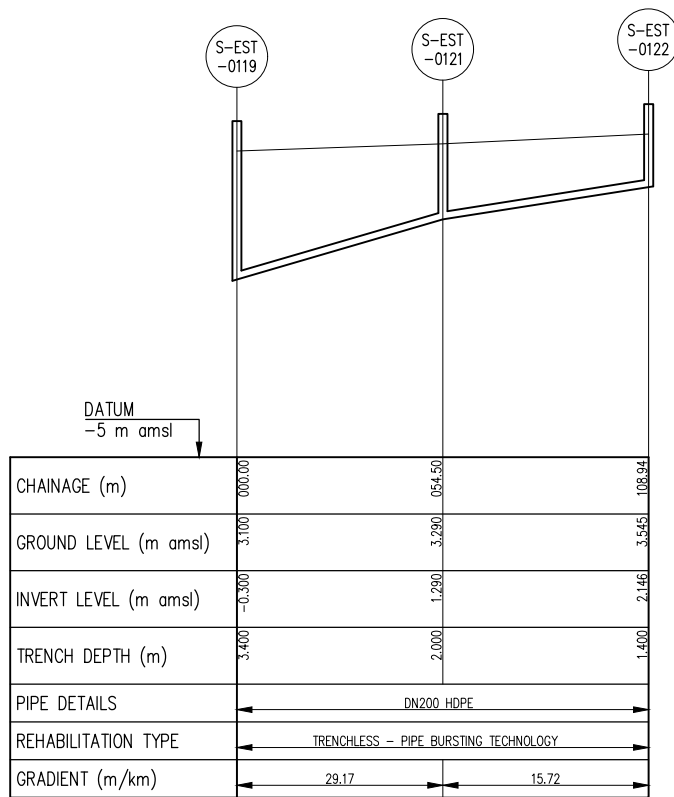
JOB No. MZSP00512E	Revision
DRAWING No. EEAS/BSMP/MOZ/SN.CW.37	A B C D E F
	G H I J K L



SEWERLINE PB10/1.4 PROFILE



SEWERLINE PB10/1.5 PROFILE



SEWERLINE PB10/1.6 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL
- UNOPENABLE MANHOLES DURING INSPECTION;
(I) S-EST-0232B

LEGEND

- MANHOLE
- SEWER LINE
- ROAD

REVISIONS

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THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

- PLANET S.A.**
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:
SEURECA VEOLIA SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

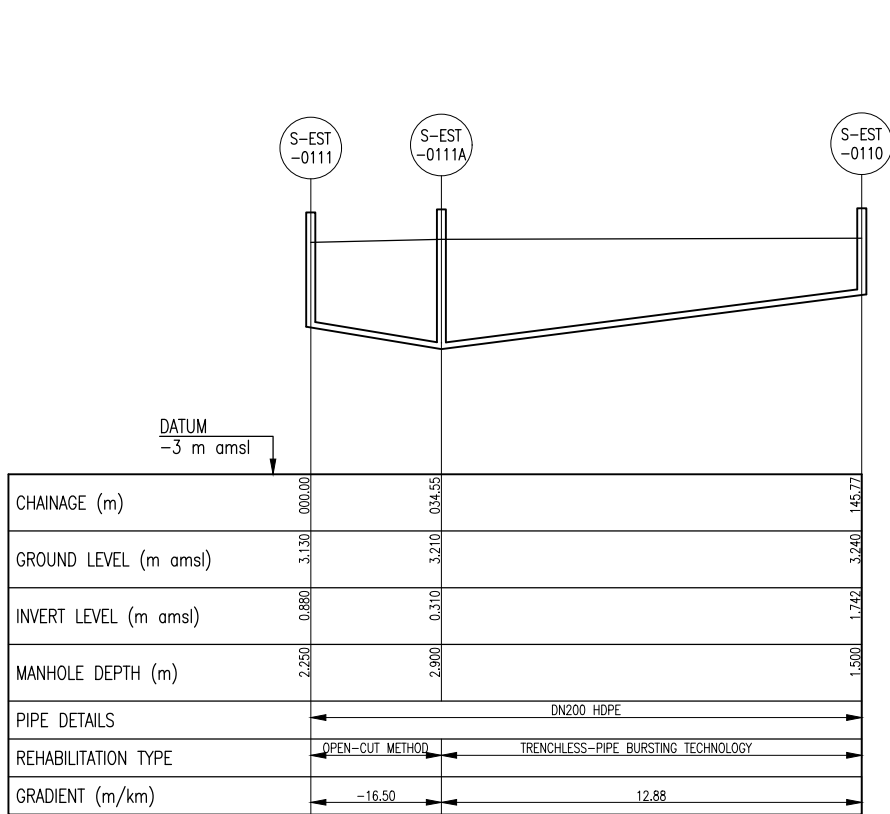
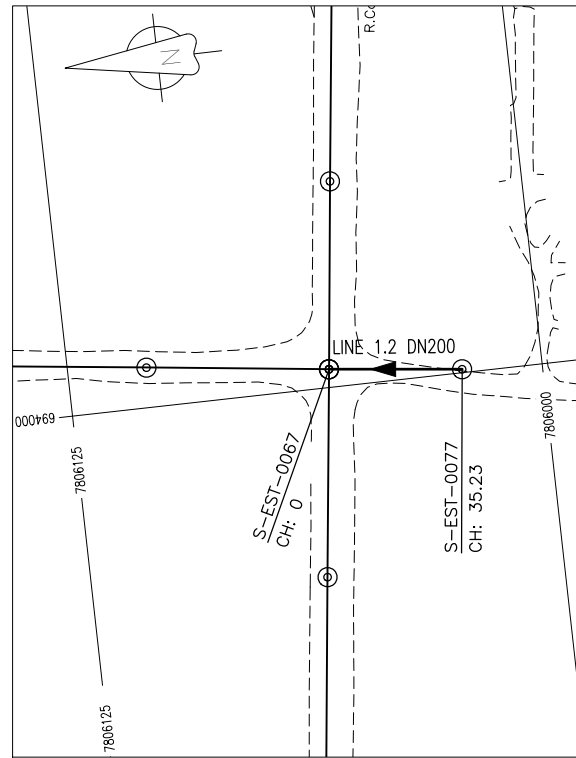
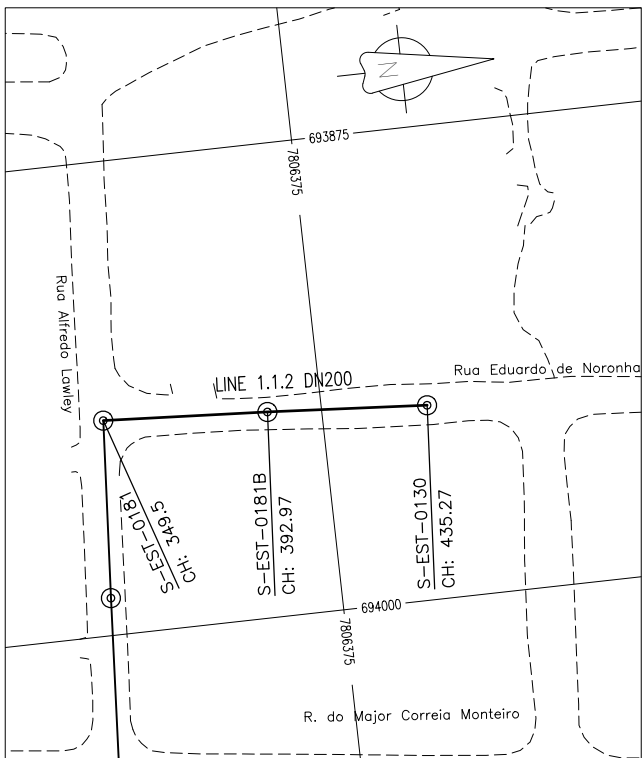
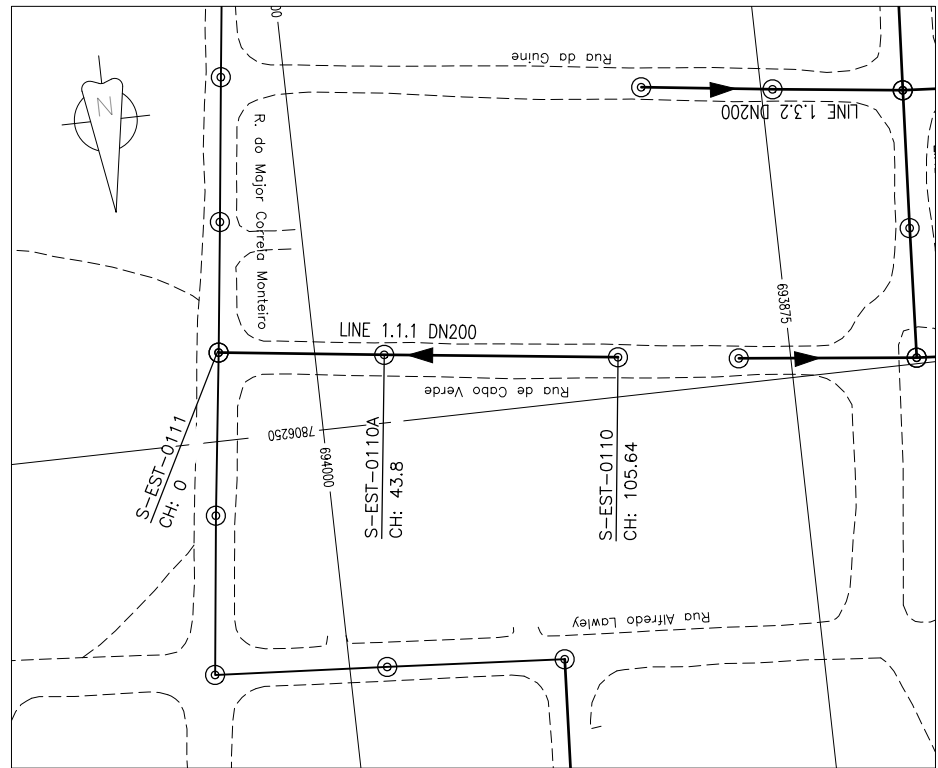
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SEWERLINE 1.4, 1.5 & 1.6
PLAN AND PROFILE

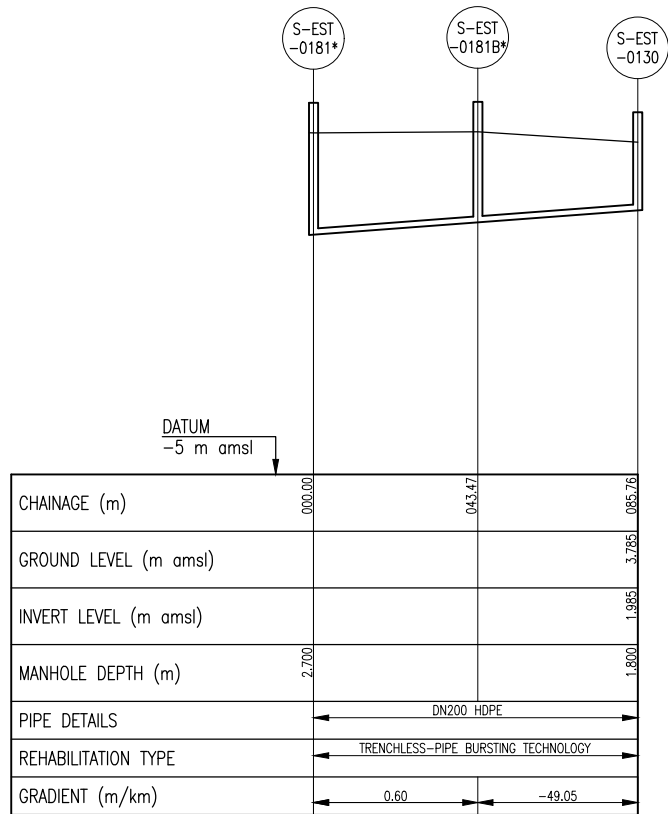
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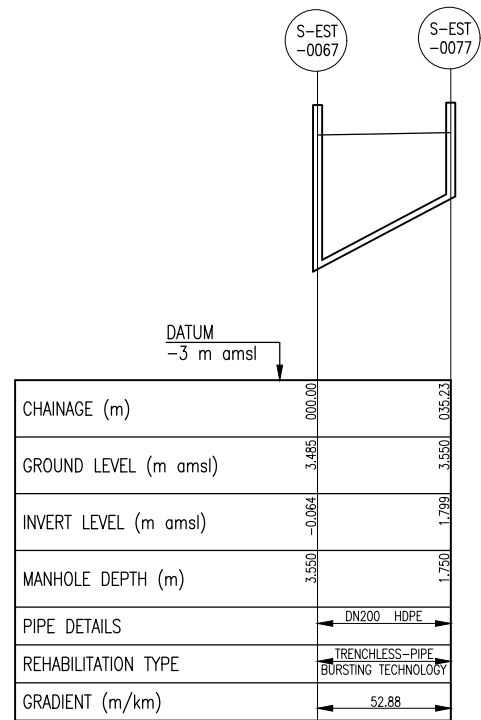
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SEWERLINE PB11/1.1.1 PROFILE



SEWERLINE PB11/1.1.2 PROFILE



SEWERLINE PB11/1.2 PROFILE

GENERAL NOTES:

- ALL DIMENSIONS IN METRES
- THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
- THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
- THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL
- UNOPENABLE MANHOLES DURING INSPECTION;
(I) S-EST-0232B

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REVISIONS

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BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

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MAPUTO



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CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

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30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

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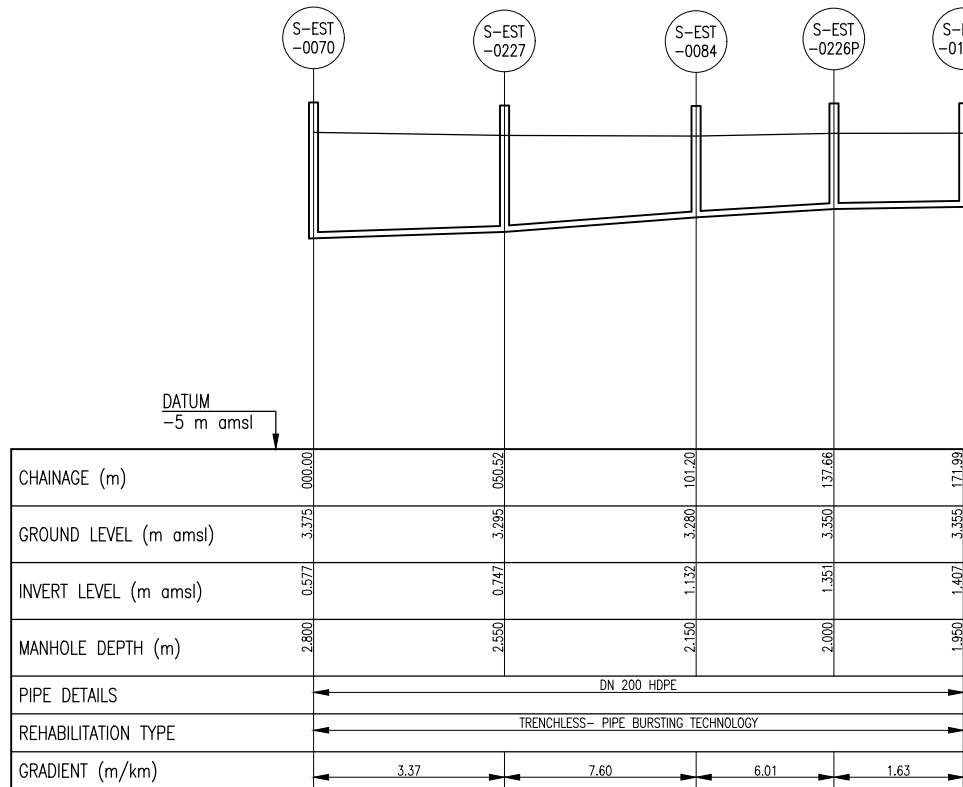
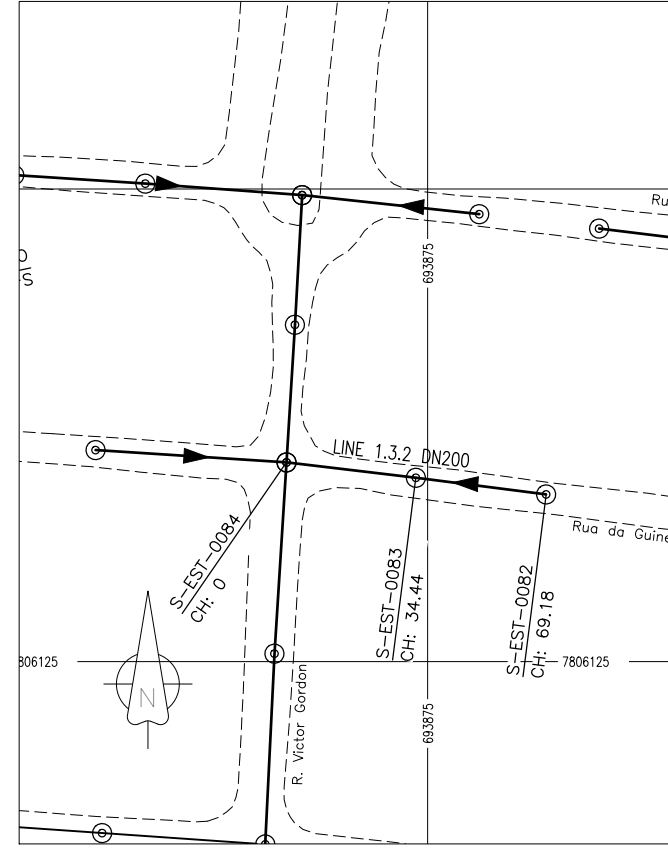
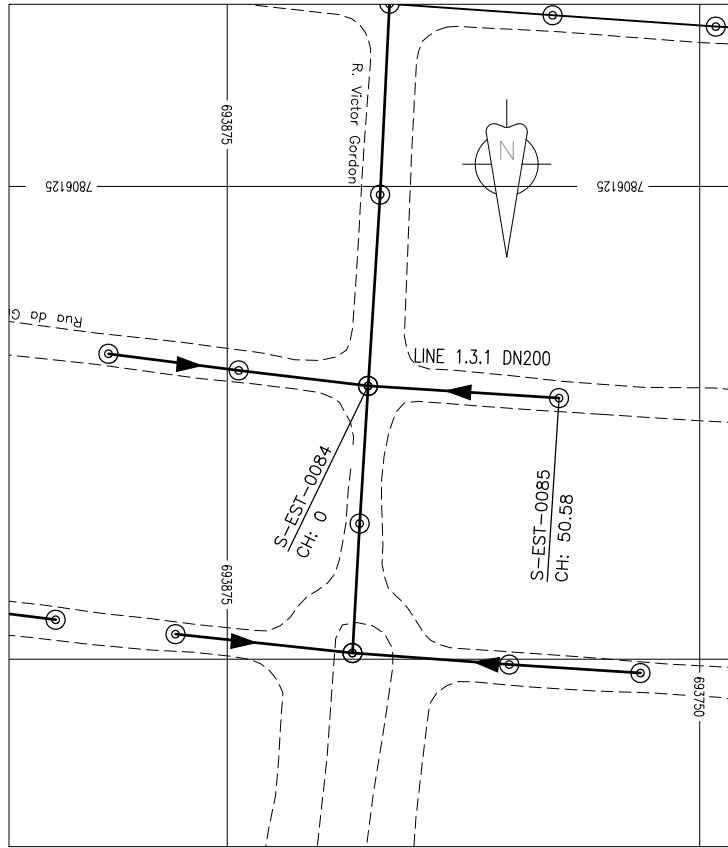
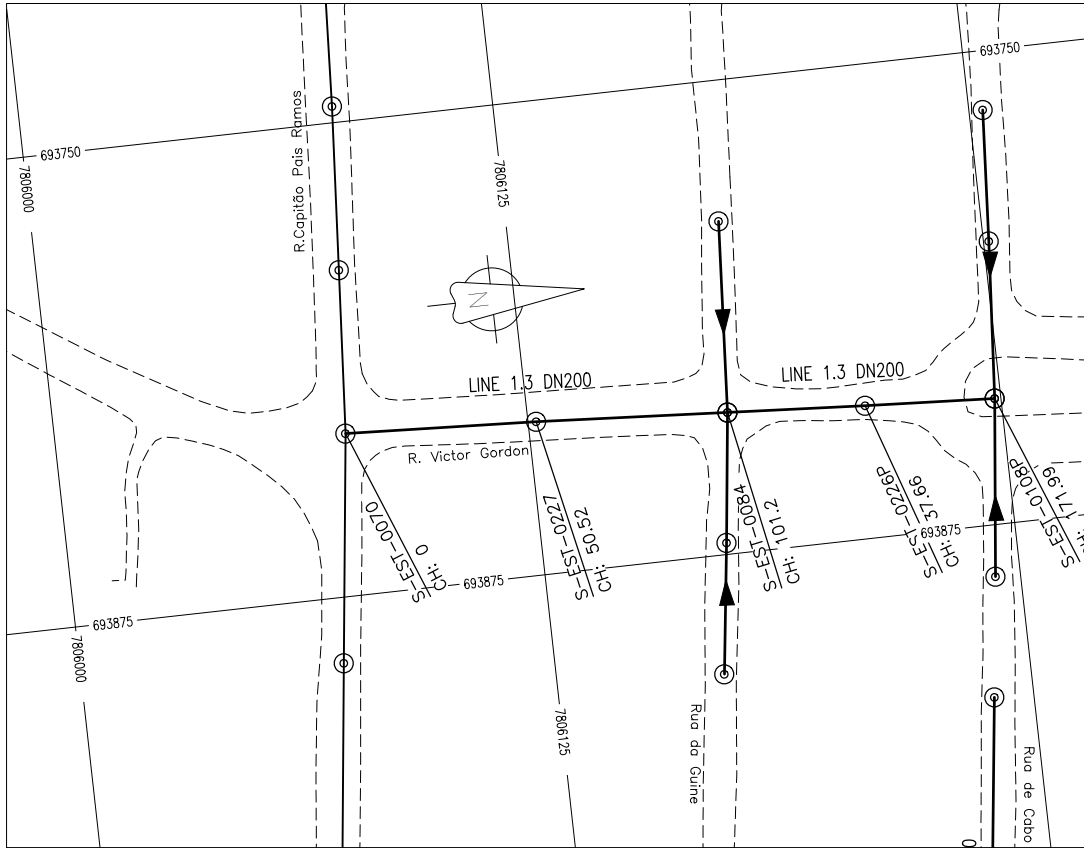
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PLAN AND PROFILE

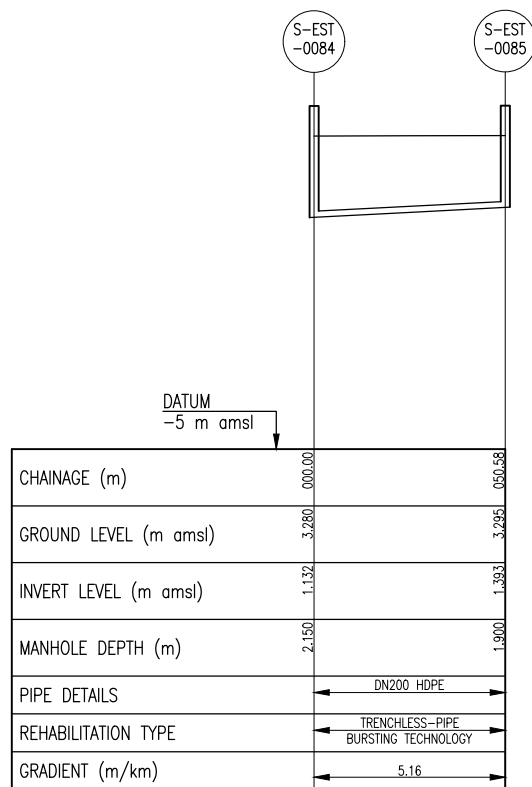
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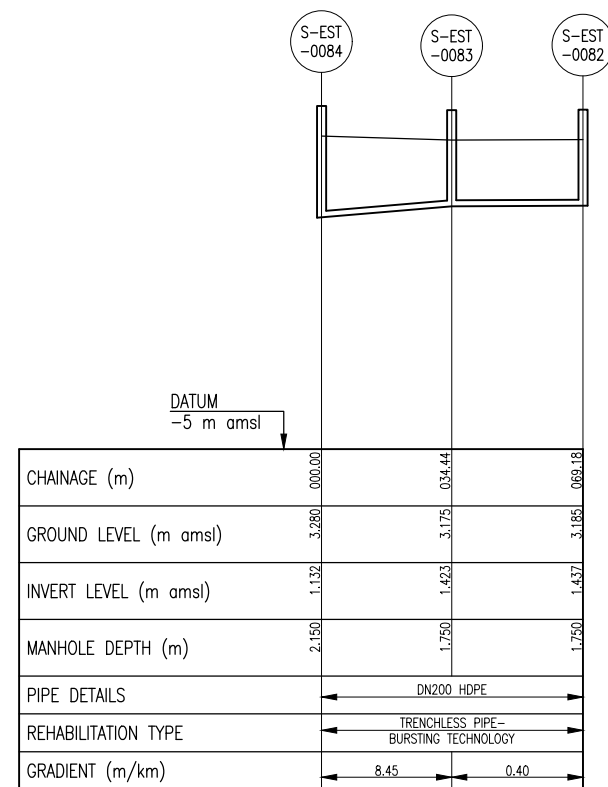
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SEWERLINE PB11/1.3 PROFILE



SEWERLINE PB11/1.3.1 PROFILE



SEWERLINE PB11/1.3.2 PROFILE

GENERAL NOTES:

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REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

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BENEFICIARY: AIAS, SASB

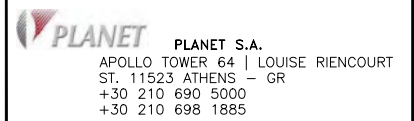


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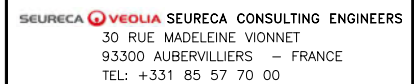


SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:



IN ASSOCIATION WITH:



PROJECT:

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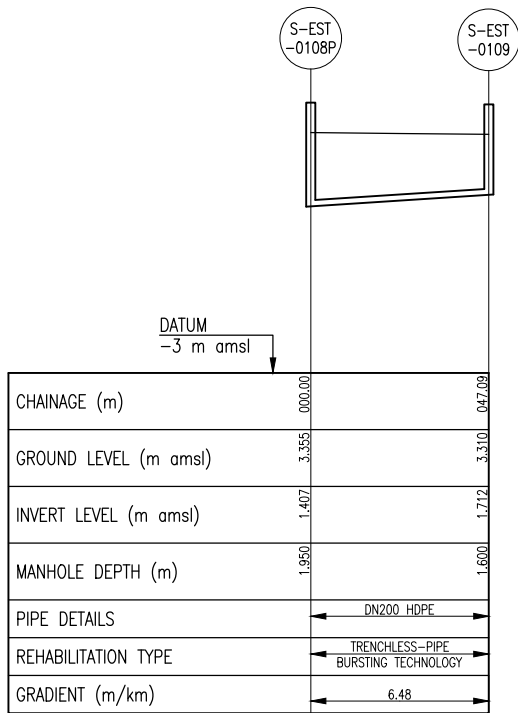
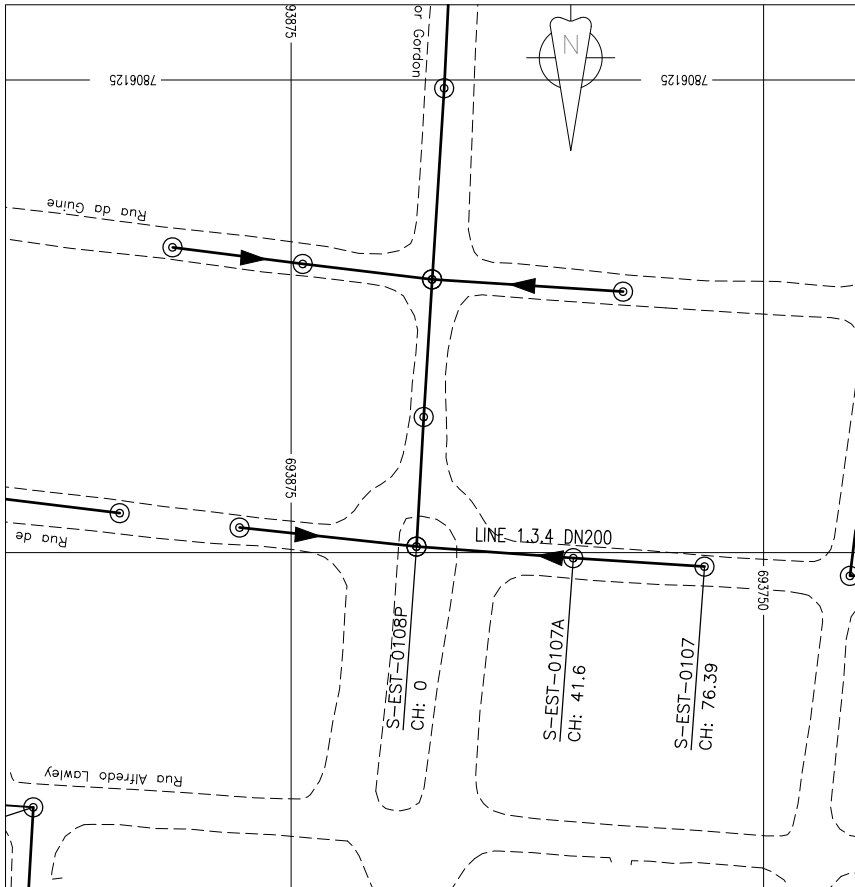
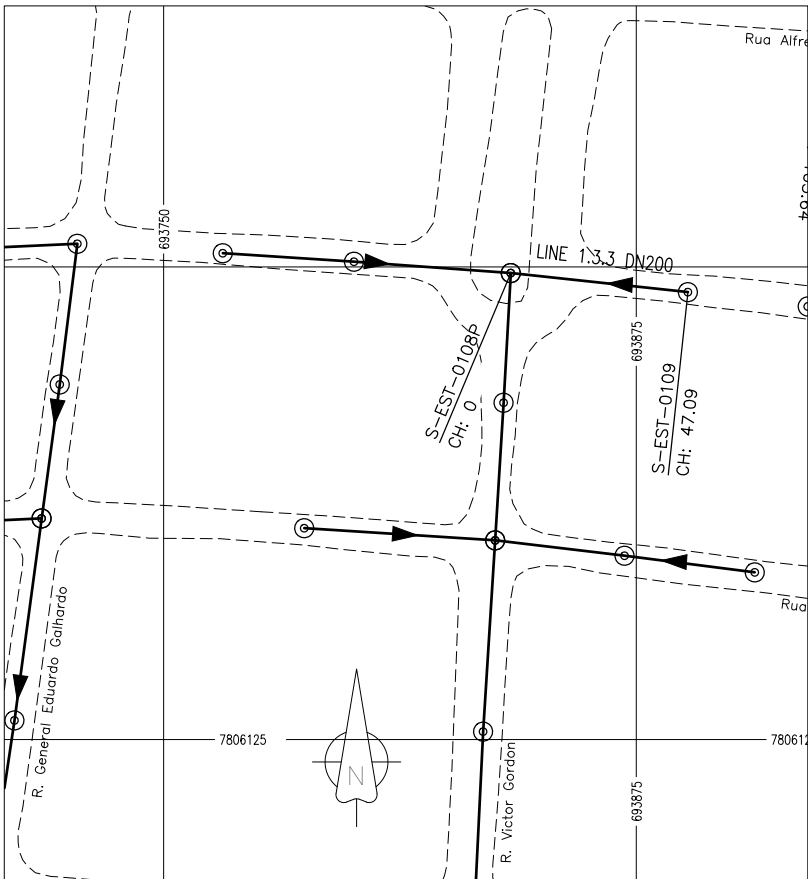
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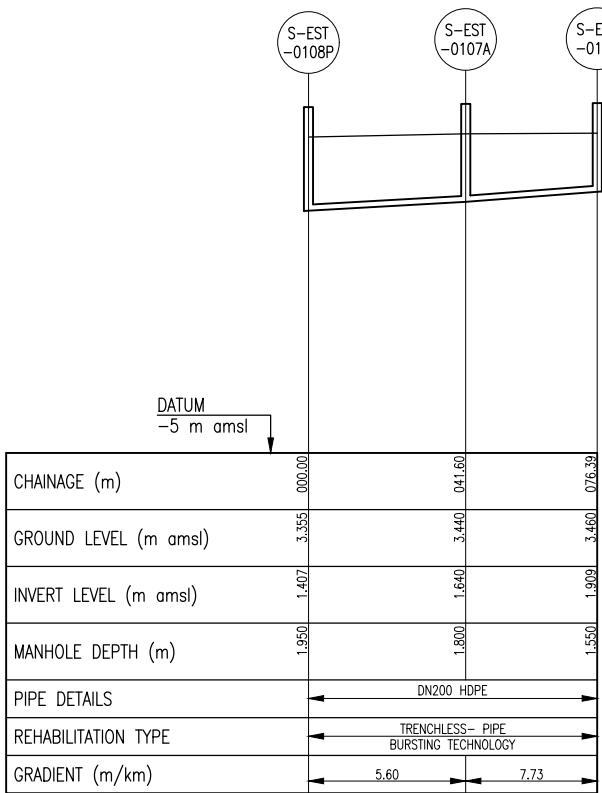
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SEWERLINE PB11/1.3.3 PROFILE



SEWERLINE PB11/1.3.4 PROFILE

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES
2. THE COORDINATE SYSTEM BASED ON UTM ZONE 36S ARC 1960
3. THE EXACT PLOT BEACONS TO BE CONFIRMED WITH CMB / SASB AND THE ENGINEER
4. THE CONTRACTOR SHALL SET OUT THE WORKS FOR ENGINEER'S APPROVAL
5. UNOPENABLE MANHOLES DURING INSPECTION;
(I) S-EST-0232B

LEGEND

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



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BENEFICIARY: AIAS, SASB

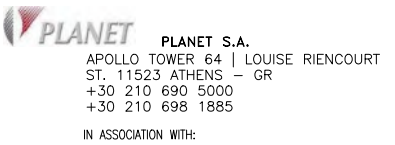


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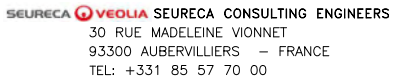
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APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
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30 RUE MADELEINE VIONNET
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TEL: +331 85 57 70 00

PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE,
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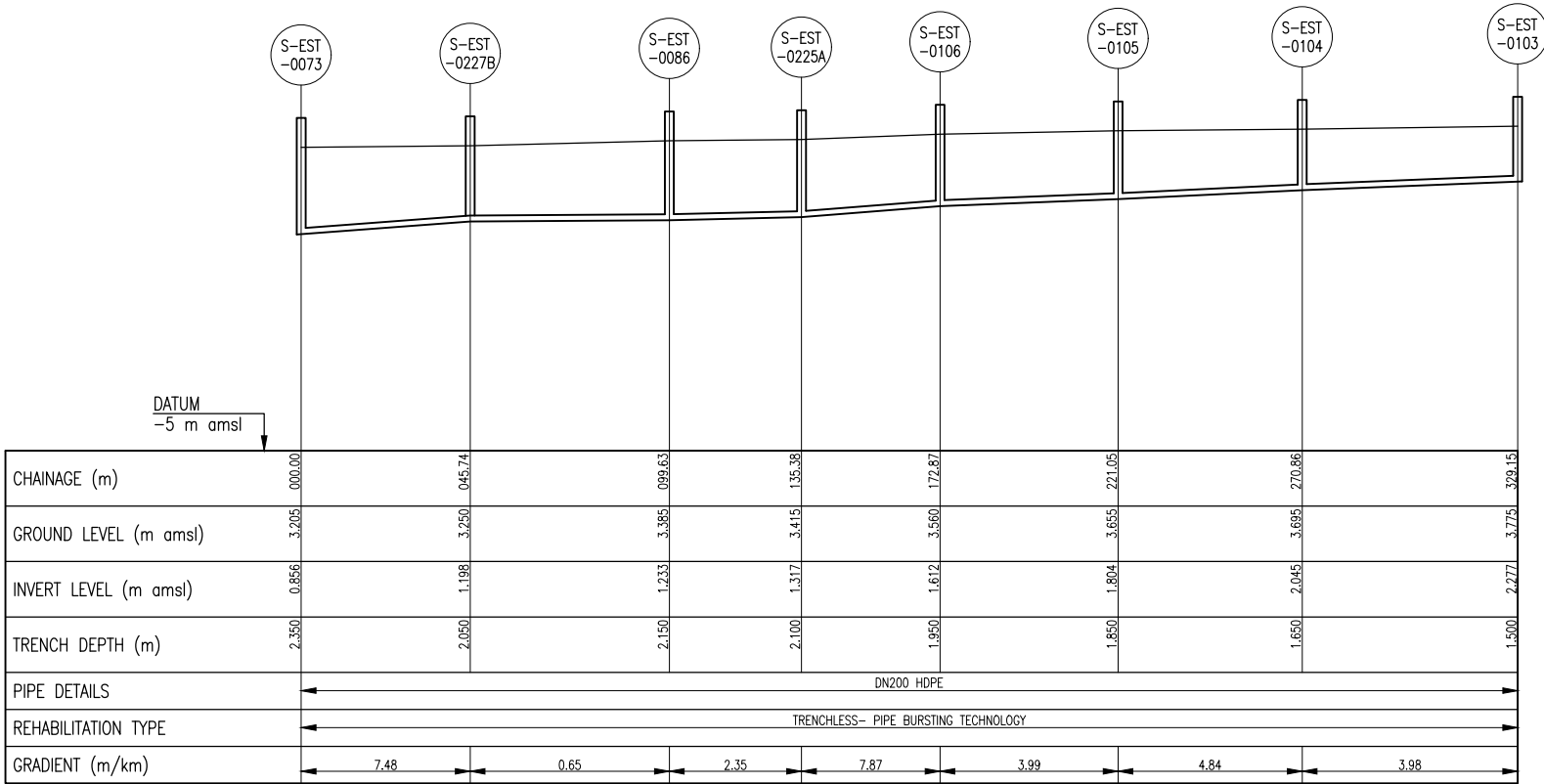
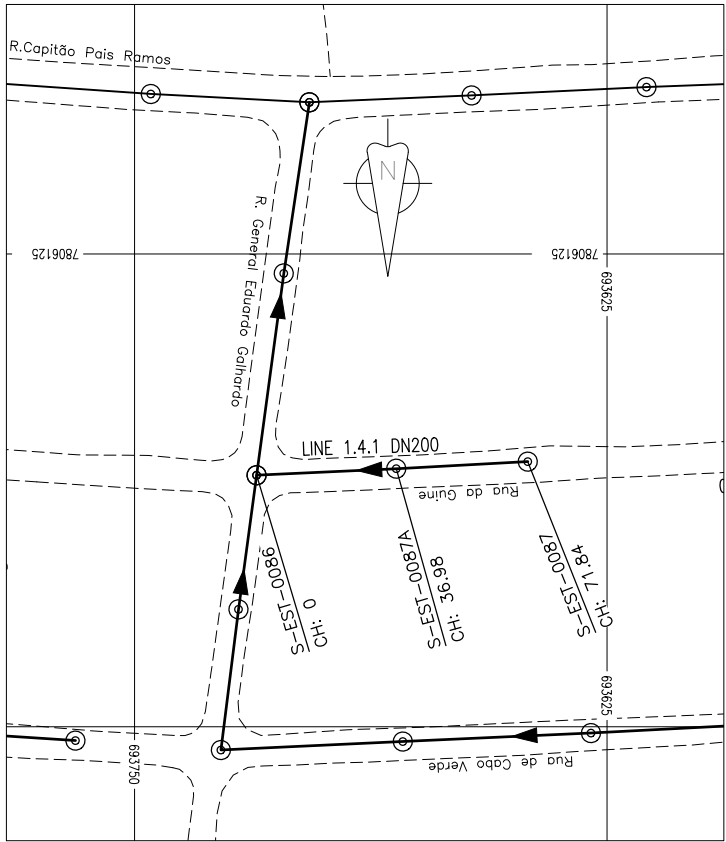
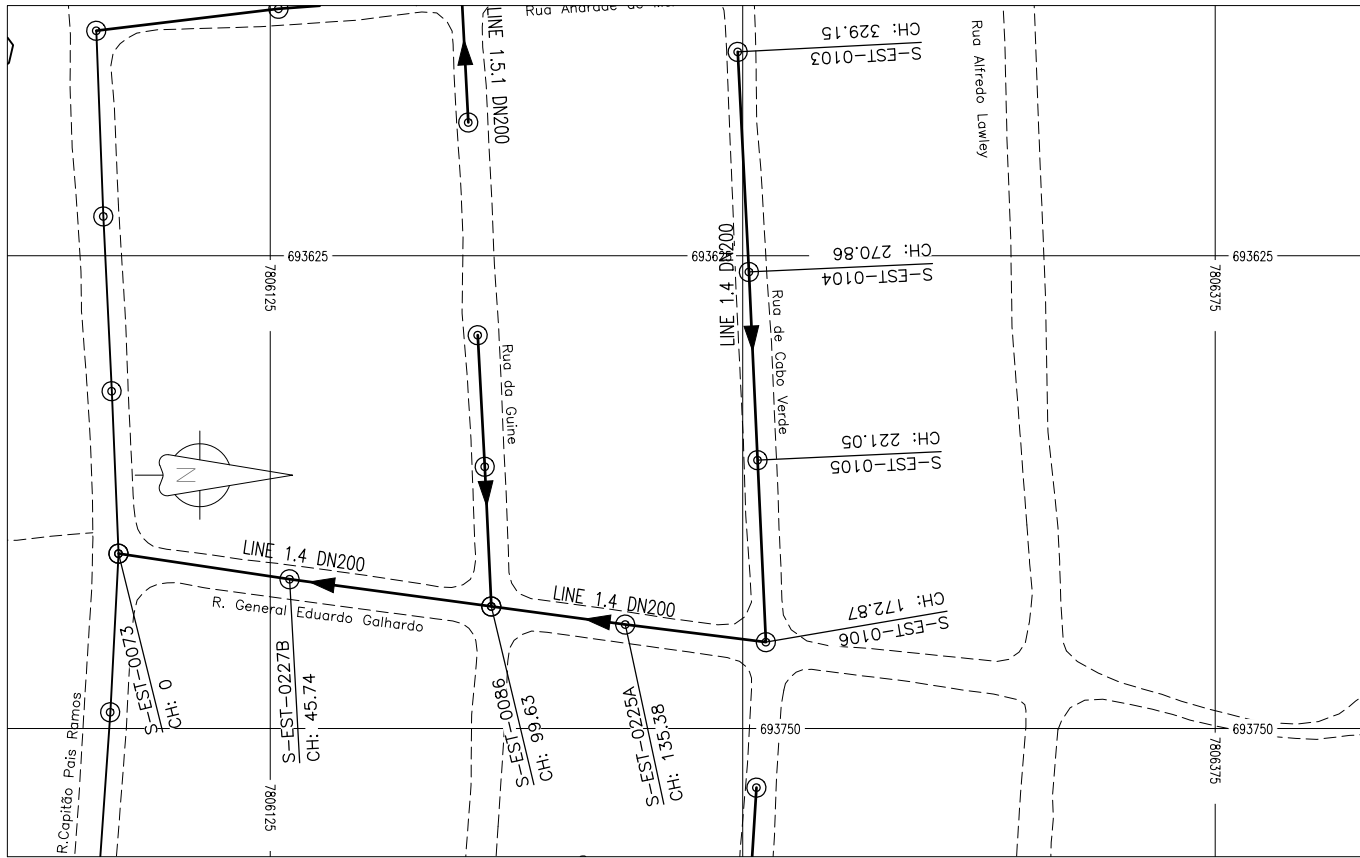
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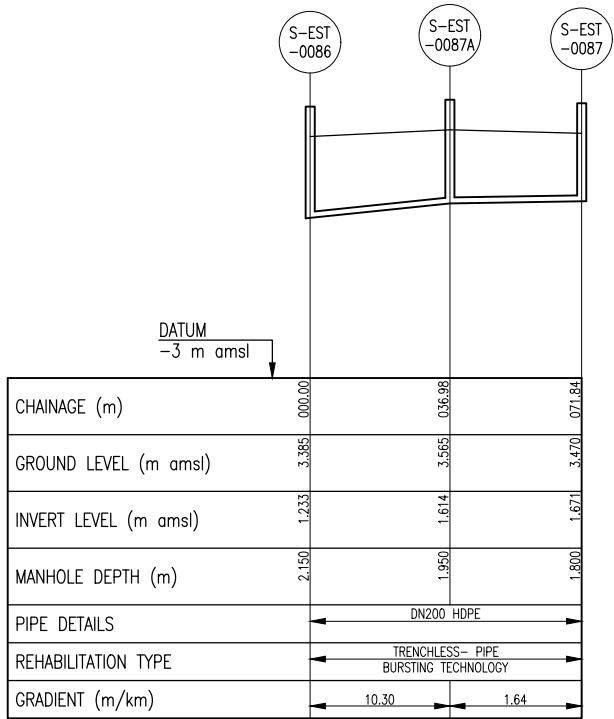
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	A	B	C	D	E	F	G	H	I	J	K	L



SEWERLINE PB11/1.4 PROFILE



SEWERLINE PB11/1.4.1 PROFILE

GENERAL NOTES:

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CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
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TEL: +331 85 57 70 00

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BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
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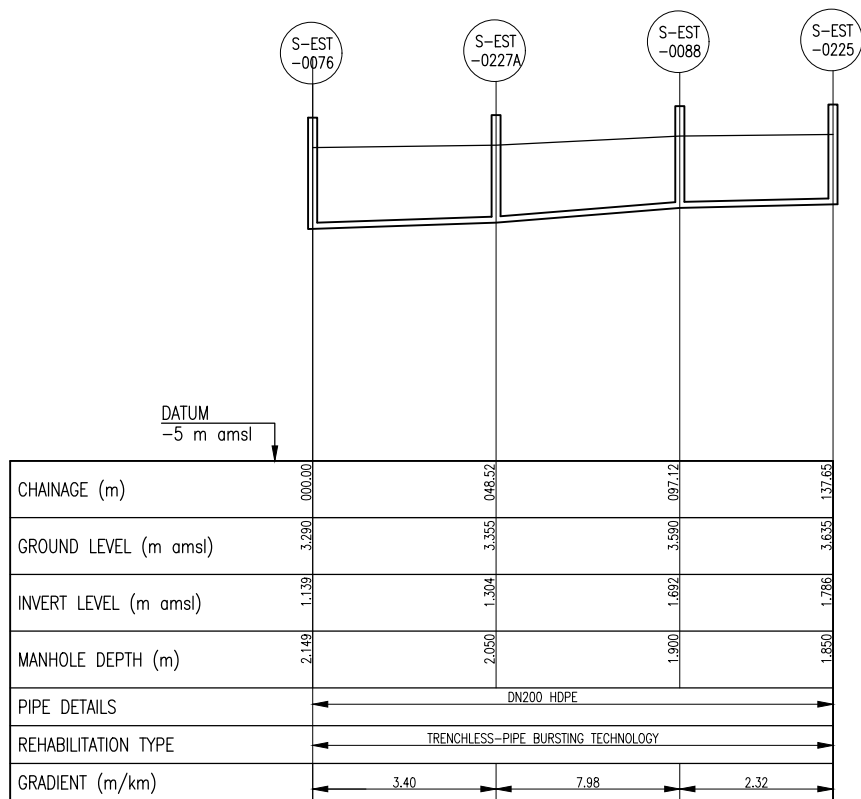
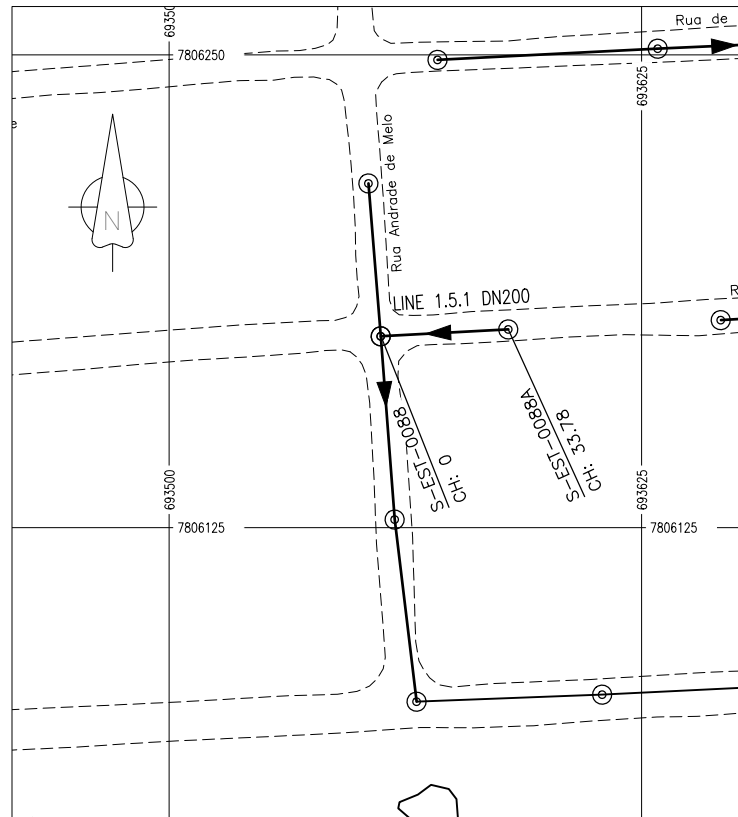
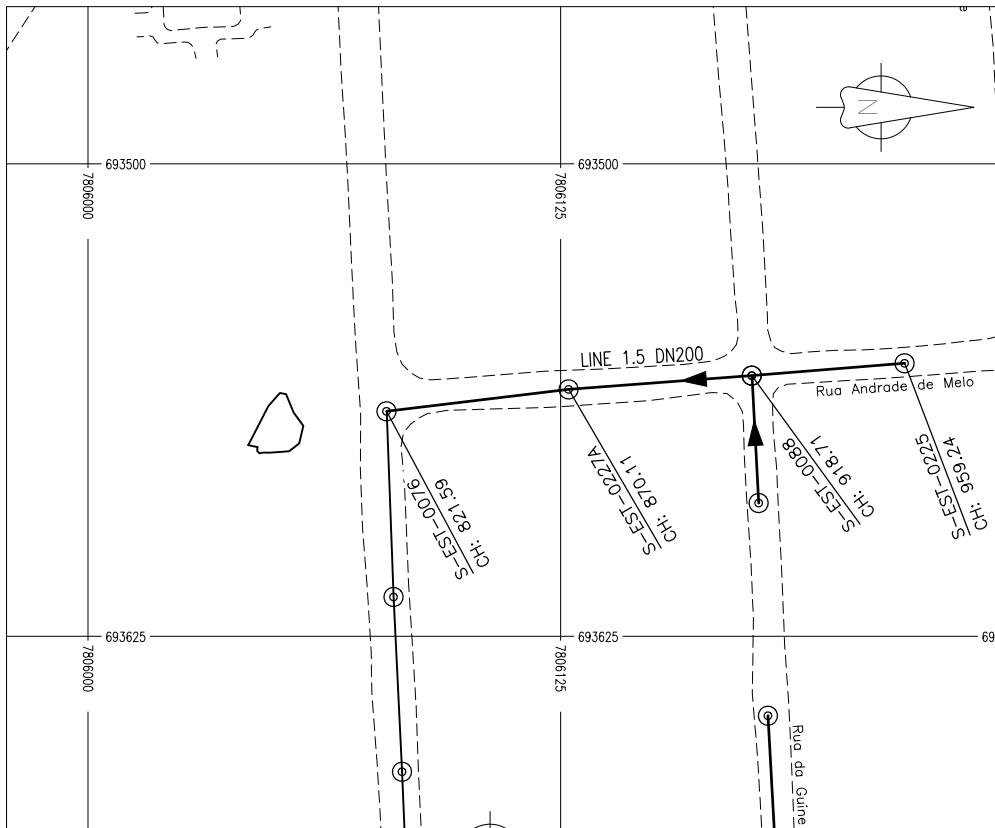
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SEWERLINE 1.4 & 1.4.1
PLAN AND PROFILE

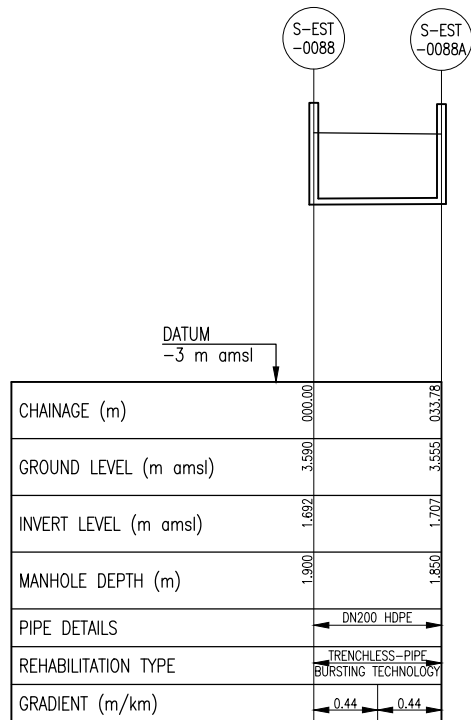
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EEAS/BSMP/MOZ/SN.CW.42	A	B	C	D	E	F
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SEWERLINE PB11/1.5 PROFILE



SEWERLINE PB11/1.5.1 PROFILE

GENERAL NOTES:

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(I) S-EST-0232B

LEGEND

REVISIONS

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BENEFICIARY: AIAS, SASB

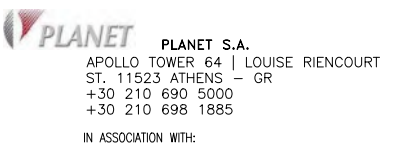


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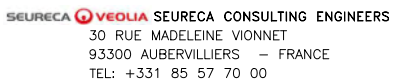
SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

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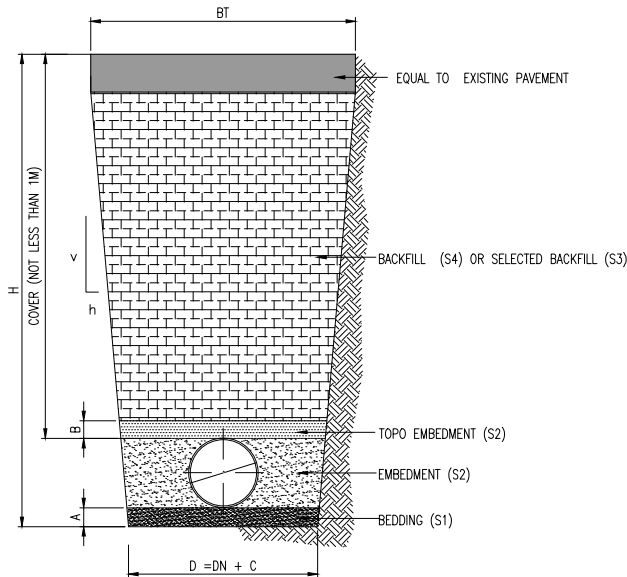
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CATCHMENT PB11 COLLECTOR
SEWERLINE 1.5 & 1.5.1
PLAN AND PROFILE

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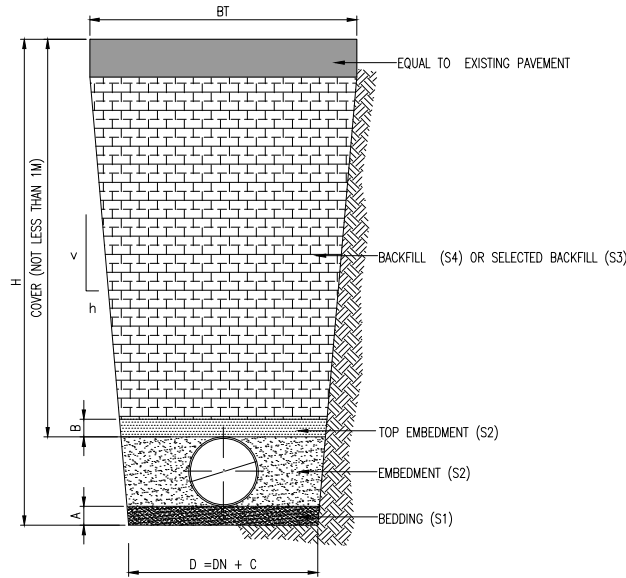
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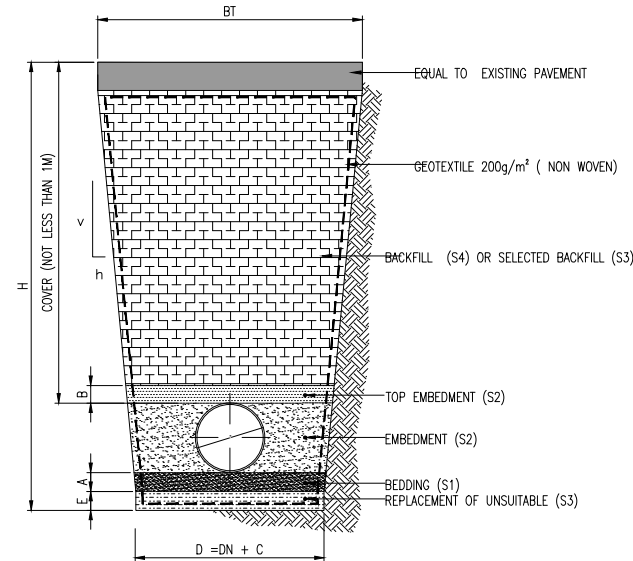
TRENCH IN HARD SOIL/ROCK
(Soil Type 1)

SCALE: N.T.S



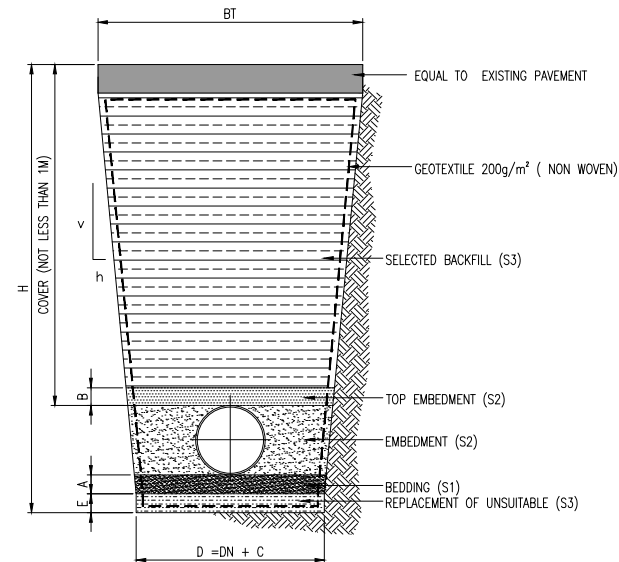
TRENCH IN ORDINARY SOIL
(Soil Type 2)

SCALE: N.T.S



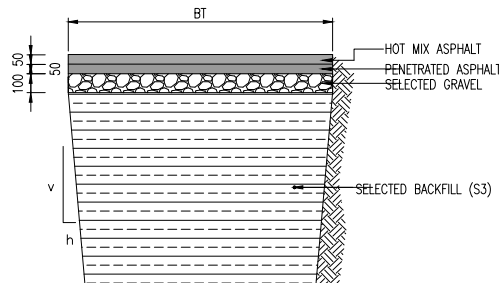
TRENCH IN SOFT/EXPANSIVE SOIL
(Soil Type 3)

SCALE: N.T.S



TRENCH WITH PHREATIC LEVEL
(Soil Type 4)

SCALE: N.T.S



STREET/ROAD TRENCH

SCALE: N.T.S

TABLE 1 – TYPICAL TRENCH WIDTHS											
DIMENSIONS	DN≤500mm					DN>500mm					
NOMINAL DIAMETER – DN (mm)	200	250	300	315	350	400	500	650	800	850	900
WIDTH OF TRENCH – D (mm)	700	750	800	815	850	900	1100	1250	1400	1450	1500
BEDDING IN SOIL – A (mm)	100					100					
BEDDING IN ROCK – A (mm)	150					150					
B (mm)	150					150					
C (mm)	400					600					
E (mm)	150					150					

TABLE 2 – TRENCH WALL SLOPE	v	h
SOIL TYPE 1 (trench wall stronger than embedment)	10	1
SOIL TYPE 2 – (trench wall and embedment equally strong)	2*	1
SOIL TYPE 3 – (trench wall weaker than embedment)	1*	1

(*) See Notes 6 and 7

SOIL TYPE	TABLE 3 – MATERIALS DESCRIPTION CHART	GROUP SYMBOL
S1	GRAVEL – SINGLE SIZE WITH < 5% (#200); Dmax < 19mm	GP
S2	GRAVEL – GRADED WITH < 5% (#200); <25% (#50); Dmax < 19mm	GW
S3	SAND AND COARSE GRAINED SOILS WITH LESS THAN 5% FINES	SW, GW
S4	SOILS WITH > 25% (#10), NP TO IP<15%, Dmax < 100mm	SW, GW

NOTES:

- BEDDING MATERIAL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 50 MM THICKNESS;
- RELATIVE DENSITY FOR MATERIALS S1 AND S2 MUST NOT EXCEED 70%;
- COMPACTION DEGREE FOR S4 MATERIALS SHALL NOT BE INFERIOR TO 90%;
- BACKFILL SELECT MATERIAL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 100MM THICKNESS;
- IN VERY SOFT SOILS WITH HIGH WATER LEVELS SPECIAL MEASURES SHALL BE APPLIED IN ORDER TO GUARANTEE AN ADEQUATE STABILITY OF THE TRENCH WALLS, ESPECILLY WHEN PERSONNEL IS WORKING INSIDE;
- IN SECTIONS WHERE THE GROUND IS NOT SELF-SUPPORTING FOR THE DEFINED SLOPES, IT WILL BE NECESSARY THE SHORING OF THE TRENCH WALLS;
- GIVEN LIMITED SPACE IN URBAN AREAS, IN CASE OF SOIL TYPE 2 AND 3, TRENCH SHORING SHOULD BE CONSIDERED.
- N.T.S means 'NOT TO SCALE'.

REVISIONS

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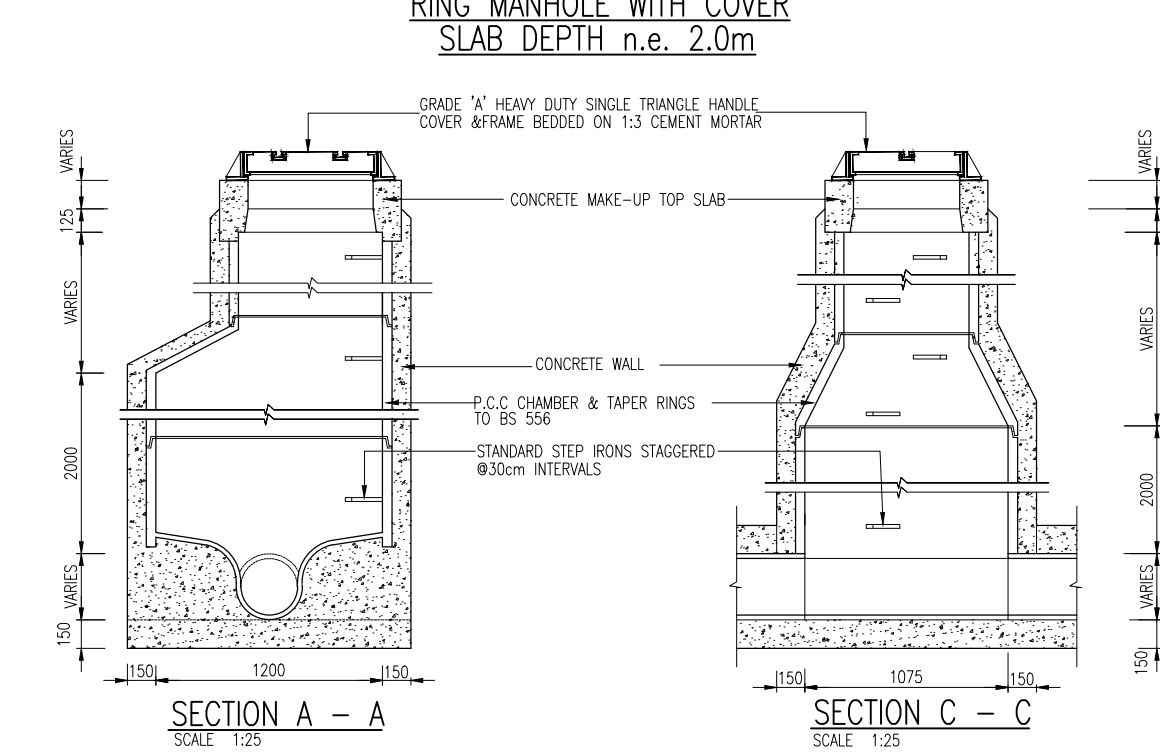
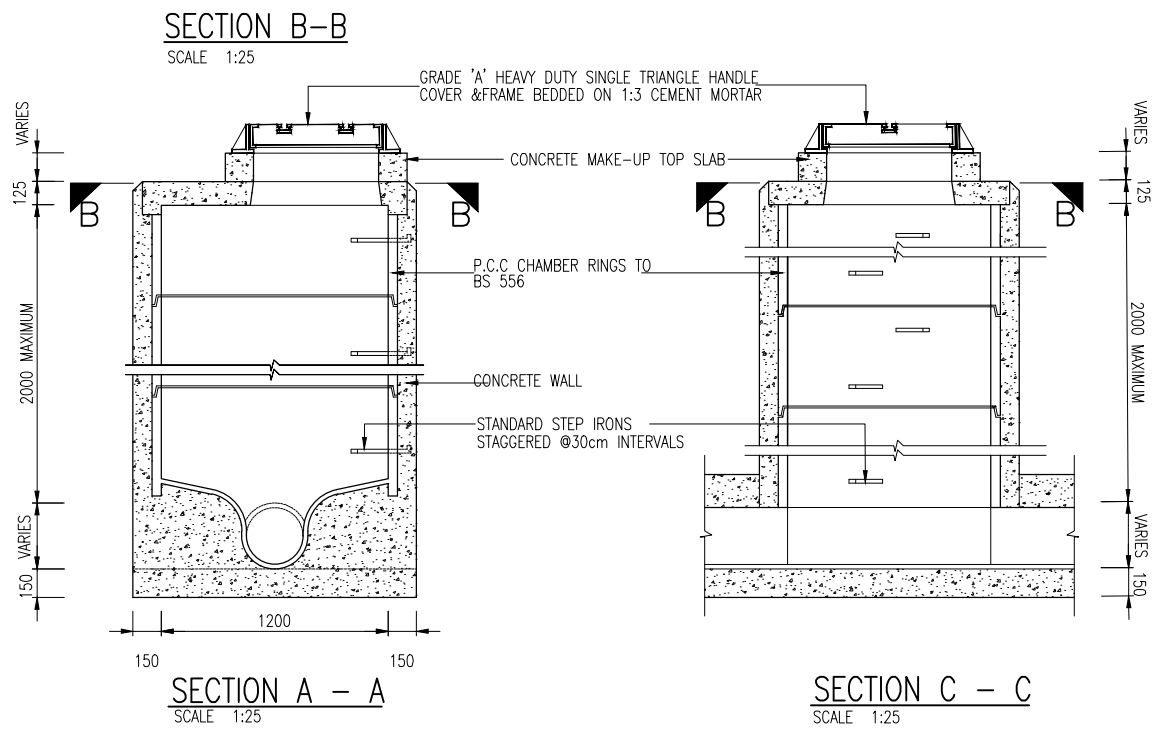
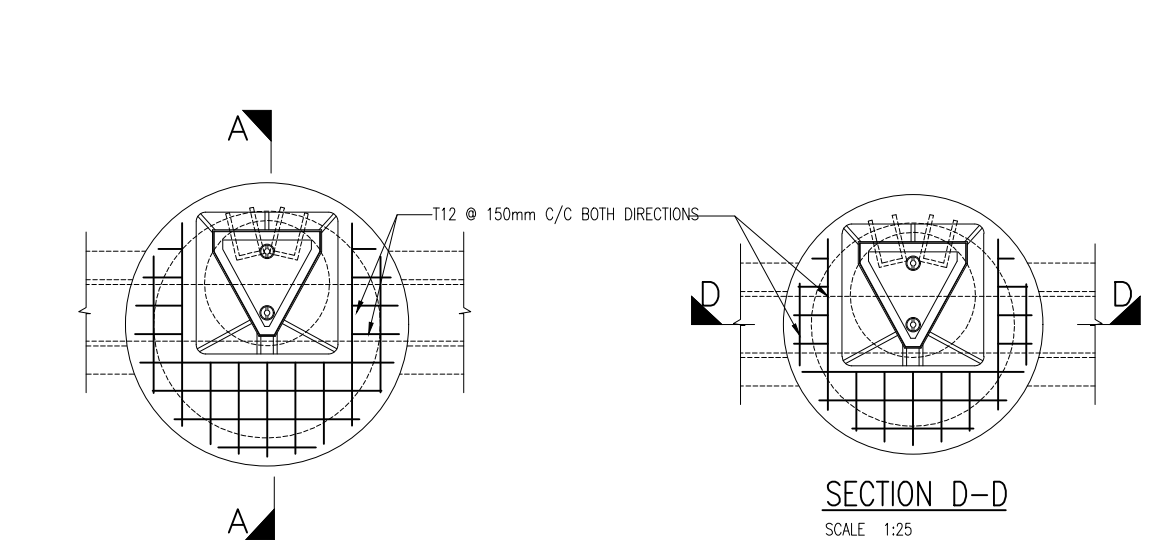
PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

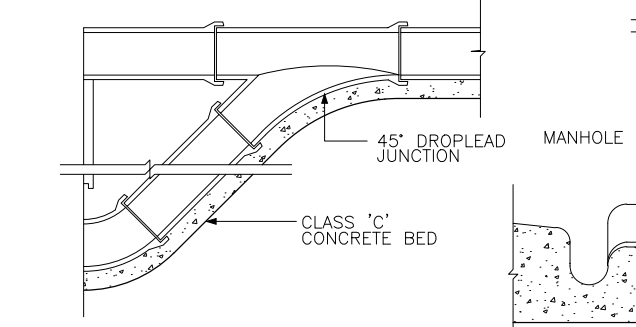
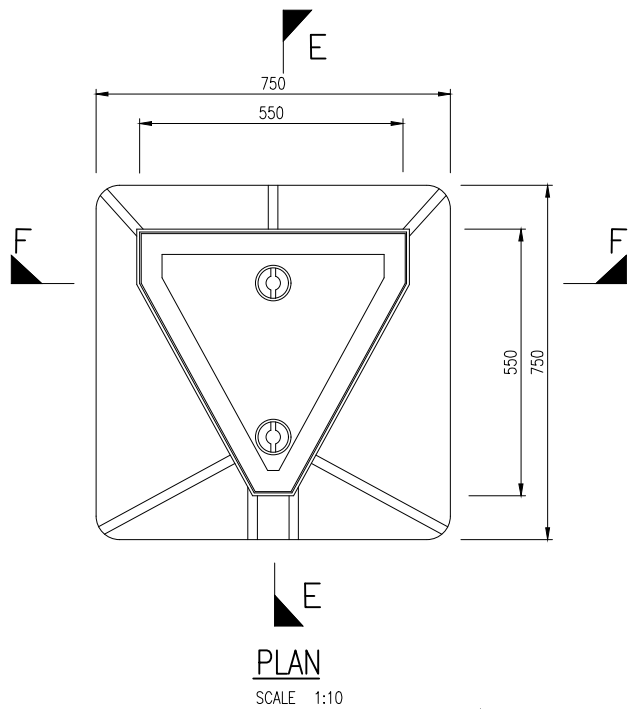
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TYPICAL TRENCH DETAILS

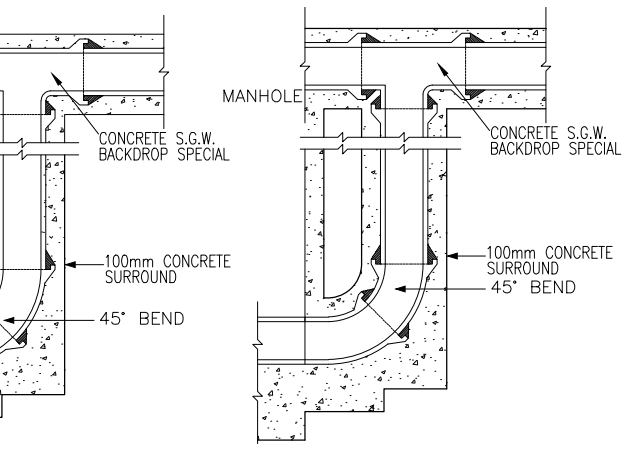
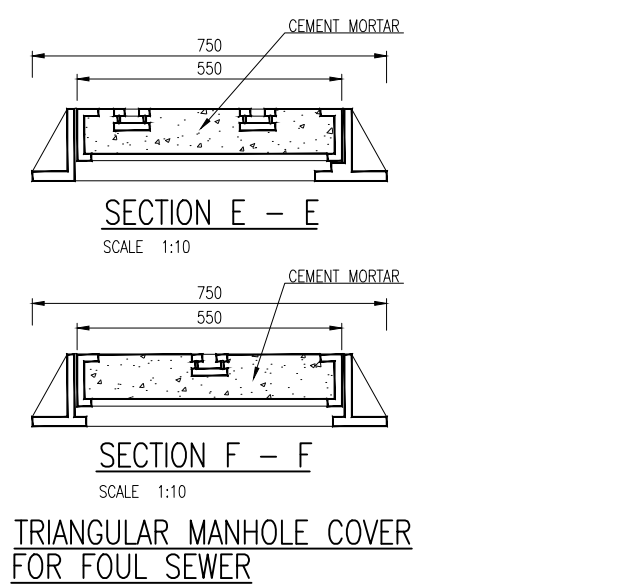
DESIGN BY:	PM	DRAWN BY:	AW
CHECKED BY:	MJB	APPROVED BY:	JF
SCALE:	N.T.S	DATE:	MAR 2022
JOB No. MZSP00512E			
DRAWING No.		Revision	
EEAS/BSMP/MOZ/SN.CW.44		A	B
		C	D
		E	F
		G	H
		I	J
		K	L



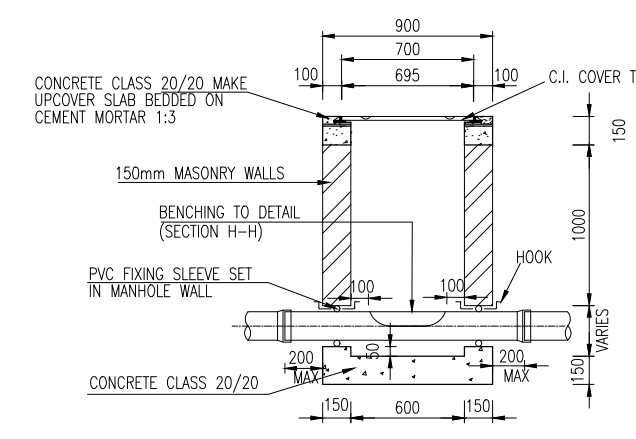
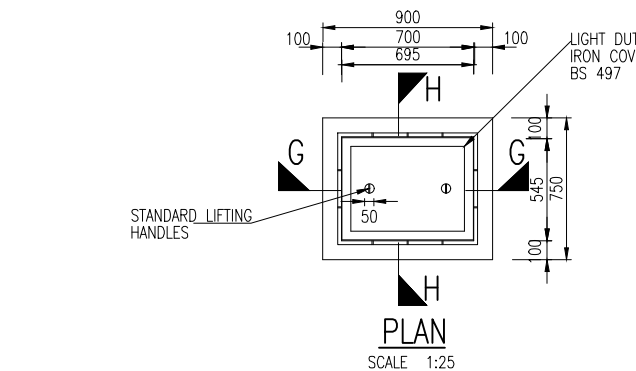
RING MANHOLE WITH COVER SLAB & TAPER SHAFT DEPTH > 2.0m



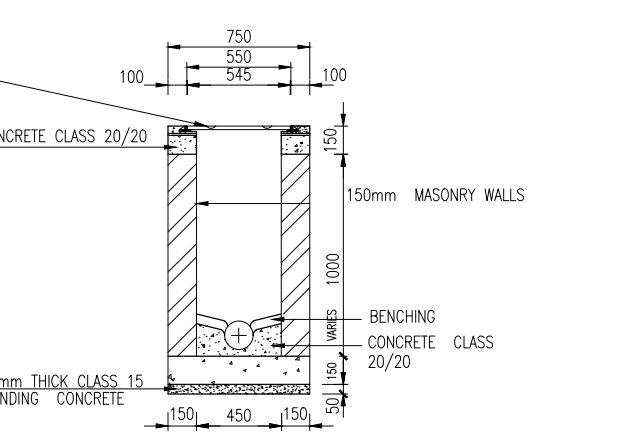
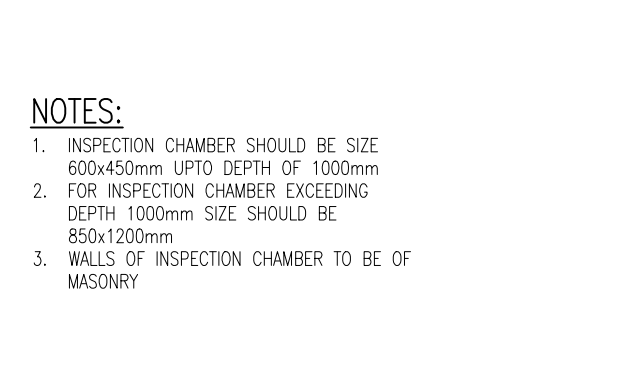
MANHOLE DROPLEAD



SIDE ENTRANCE BACKDROP



SECTION G - G



SECTION H - H

INSPECTION CHAMBER DETAILS

- NOTES:**
1. ALL CONCRETE TO BE SULPHATE RESISTANT AND OF CLASS 'C25'.
 2. ALL PRECAST CONCRETE UNITS TO BS 556.
 3. COVER FABRICATED FROM 6mm M.S. PLATE.
 4. CONCRETE FILLING TO BE VIBRATED AND CURED IN ACCORDANCE WITH THE APPROPRIATE SPECIFICATION CLAUSES.
 5. TOLERANCE ON OVERALL SIZE 3mm.
 6. ALL HAUNCHES ARE CLASS 15/40. CONCRETE AS INDICATED ON THE SPECIFICATION OVER EXCAVATION TO BE MADE GOOD IN CONCRETE CLASS 15/40.

REVISIONS				
REV	DATE	DESCRIPTION	DES.	CHE. APPR

CLIENT:

THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB

AIAS
ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

SASB
SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÓNDLANE, 1352.
MAPUTO

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

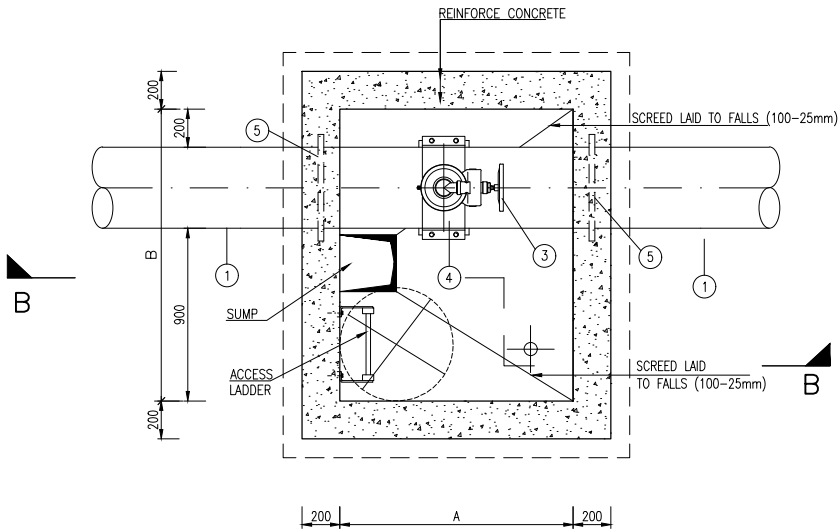
IN ASSOCIATION WITH:

SEURECA VEOLIA SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

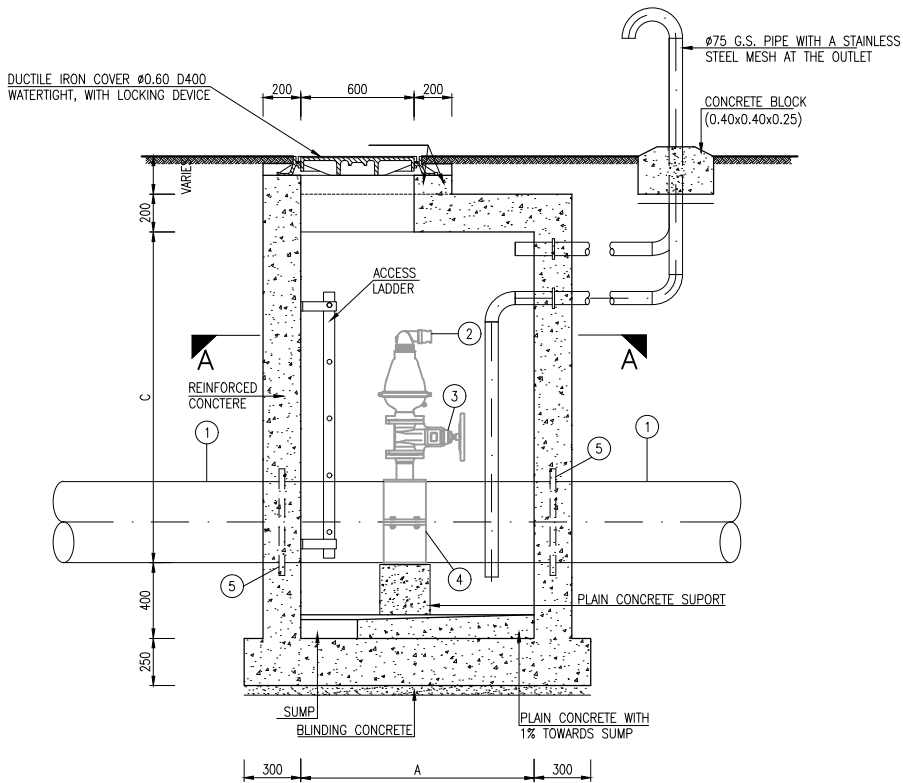
PROJECT:

FWC BENEFICIARIES 2018-L0T 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:											
STANDARD MANHOLES ,INSPECTION CHAMBER & SURROUND DETAILS											
DESIGN BY: PM		DRAWN BY: AW									
CHECKED BY: MJB		APPROVED BY: JF									
SCALE: 1:25 ; 1:10 (A1)		DATE: MAR 2022									
JOB No. MZSP00512E											
DRAWING No.						Revision					
EFAS/BSMP/MOZ/SN.CW.45						A	B	C	D	E	F



SECTION A-A



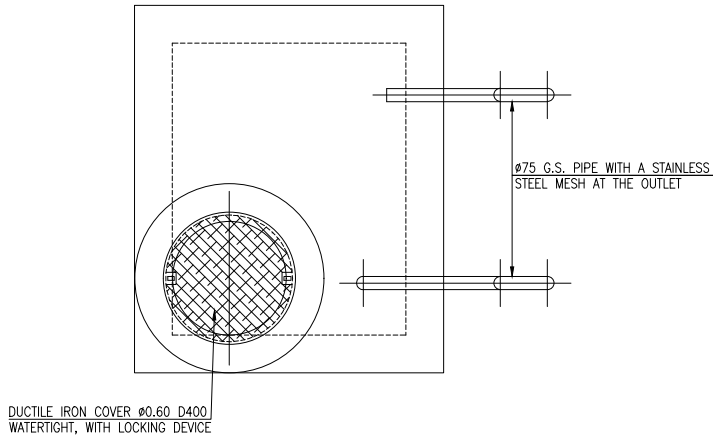
SECTION B-B

SYMBOLOLOGY

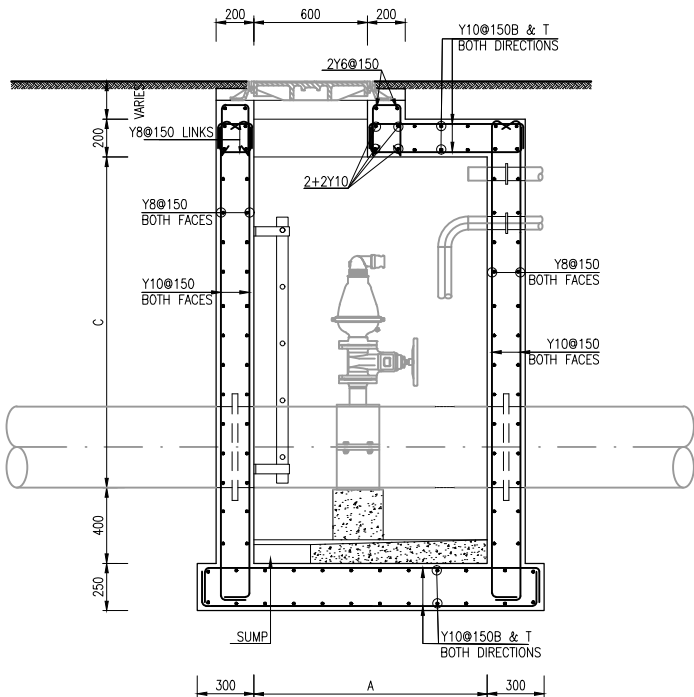
- ①- EXISTING UPVC PIPE
- ②- FLANGED AIR VALVE, TRIPLE FUNCTION, FOR WASTEWATER AND LOW PRESSURE SERVICE (TYPE A.R.I. D-025)
- ③- DUCTILE IRON FLANGED GATE VALVE, PN10
- ④- DUCTILE IRON TAPPING SADDLE WITH FLANGE FOR PVC PIPES
- ⑤- PVC SEALING RING BONDED TO THE EXISTING PIPE

EQUIPMENT DIMENSIONS				
FORCE MAIN SECTION	FORCE MAIN ①	AIR VALVE ②	GATE VALVE ③	TAPPING SADDLE WITH FLANGE ④
0+825	DN250	DN80	DN80	DN250xDN80
4+825	DN400	DN80	DN80	DN400xDN80

MANHOLE DIMENSIONS			
FORCE MAIN SECTION	A	B	C
0+825	1.20	1.35	1.40
4+825	1.20	1.50	2.00



COVER SLAB



REINFORCEMENT DETAILS

NOTES:

1. THE VENTILATION POSITION MUST BE DETERMINED ACCORDING TO LOCAL CONDITIONS
2. GRP LADDERS, WITH STAINLESS STEEL WALL FIXING
3. OUTSIDE OF CHAMBER TO BE COATED WITH BITUMEN 3mm DRY FILM THICKNESS

EQUIPMENT NOTES:

4. THE CIVIL WORKS DRAWINGS MAY NOT FIT, IN DETAIL, TO ALL BRANDS OF EQUIPMENT TO BE INSTALLED
5. ACCESS OPENINGS, SUPPORTS AND EVERYTHING REGARDING THE EQUIPMENT ASSEMBLY, CAN ONLY BE DONE AFTER APPROVAL OF DRAWINGS BY CONTRACTORS OF THE MECHANICAL AND ELECTRICAL EQUIPMENT, OR FROM DRAWINGS PROVIDED BY THEM.

MATERIALS

6. BLINDING CONCRETE C12/15:
7. CONCRETE : C25/30
8. REINFORCING STEEL : A500 NR (EN 10080 / EN 1992 1-1)

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÓNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:
SEURECA **VEOLIA** SEURECA CONSULTING ENGINEERS
30 RUE MADELINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

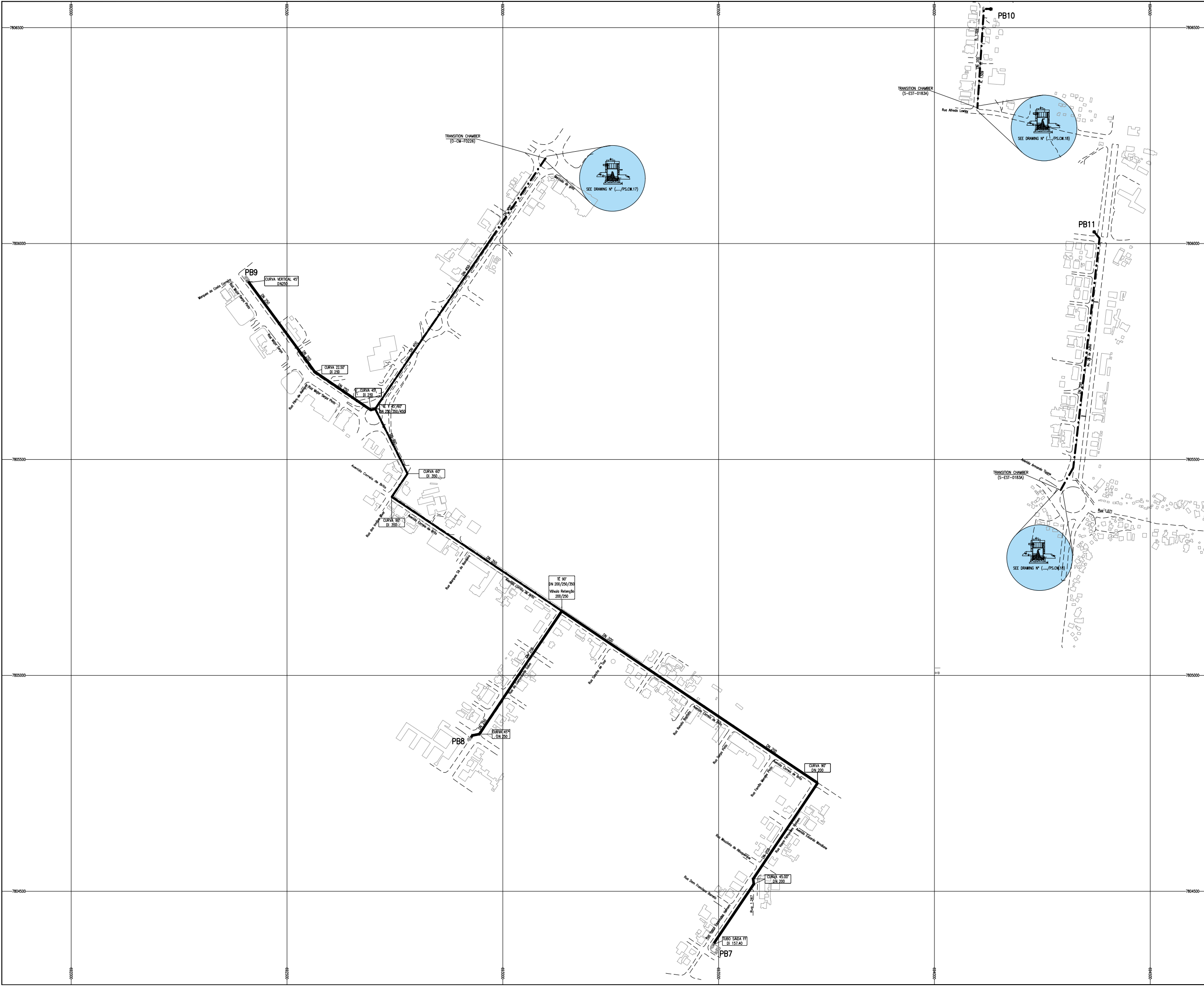
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

AIR VALVE DRAWING

DESIGN BY: PM	DRAWN BY: AW
CHECKED BY: MJB	APPROVED BY: JF
SCALE: 1:20 (A1)	DATE: MAR 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/SN.CW.46	
Revision	
A B C D E F G H I J K L	



LEGEND

SYMBOLOLOGY:

- EXISTING PRESSURE PIPE, TO MAINTAIN
- EXISTING PRESSURE PIPE, TO REPLACE
- NEW PRESSURE PIPE, TO INSTALL
- EXISTING PRESSURE PIPE (ALIGNMENTS TO CONFIRM)
- CHAMBER TO BUILD/TO ADAPT
- EXISTING BUILDINGS

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

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BENEFICIARY: AIAS, SASB

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE
BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

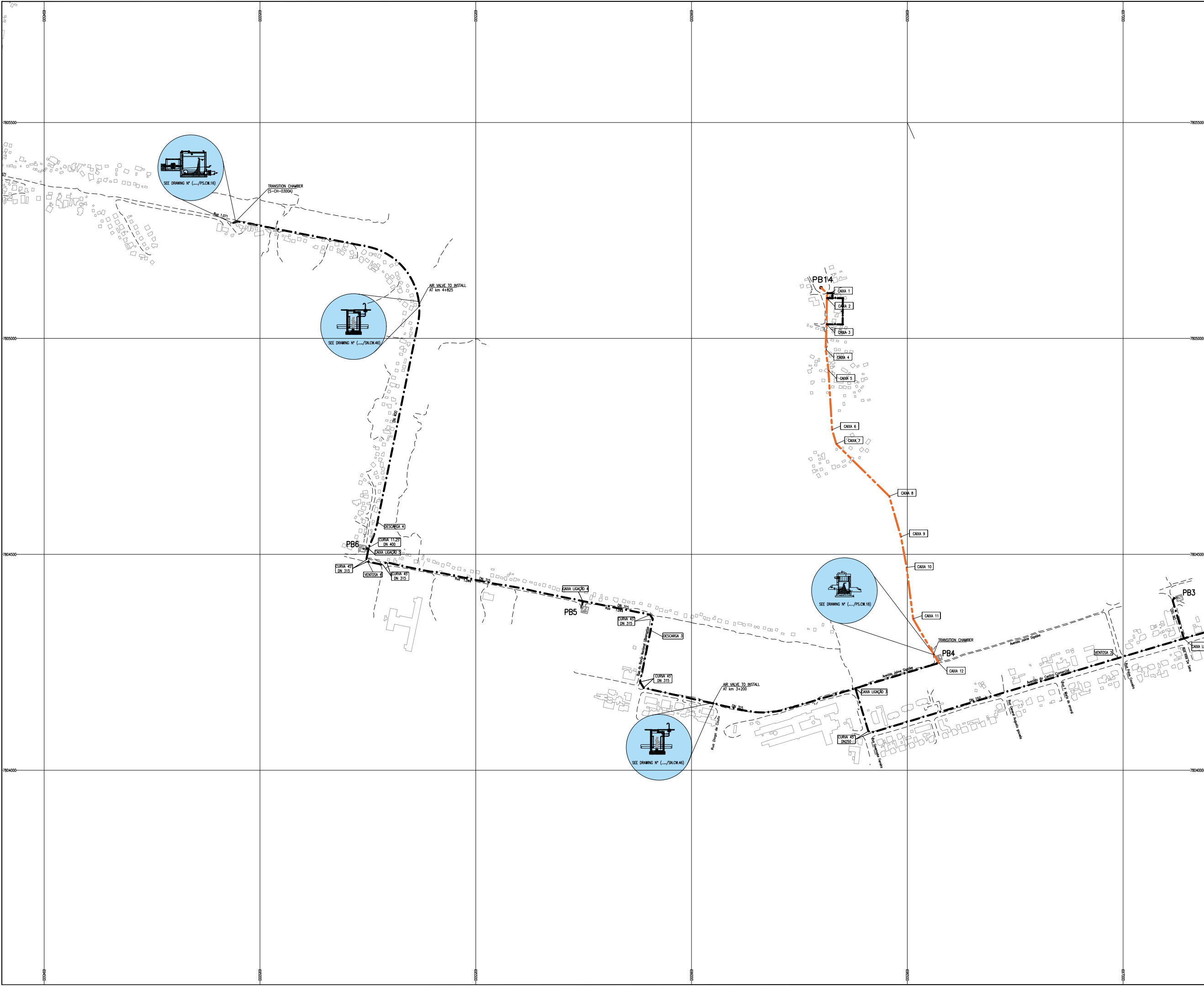
DRAWING TITLE:

PUMPING SYSTEMS
GENERAL LAYOUT PLAN
SHEET 1 OF 3

DESIGN BY:	PM	DRAWN BY:	AW
CHECKED BY:	MJB	APPROVED BY:	JF
SCALE:	1:2500 (A1)	DATE:	MAY 2022

JOB No. MZSP00512E

DRAWING No.	Revision
EEAS/BSMP/MOZ/PS.GP.01	A B C D E F G H I J K L



LEGEND

SYMBOLOLOGY:

- EXISTING PRESSURE PIPE, TO MAINTAIN
- - - EXISTING PRESSURE PIPE, TO REPLACE
- NEW PRESSURE PIPE, TO INSTALL
- EXISTING PRESSURE PIPE (ALIGNMENTS TO CONFIRM)
- CHAMBER TO BUILD/TO ADAPT
- EXISTING BUILDINGS

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

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AV. EDUARDO MONDLANE, 1352.
MAPUTO

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA

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CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
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+30 210 698 1885

IN ASSOCIATION WITH:

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30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
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PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI

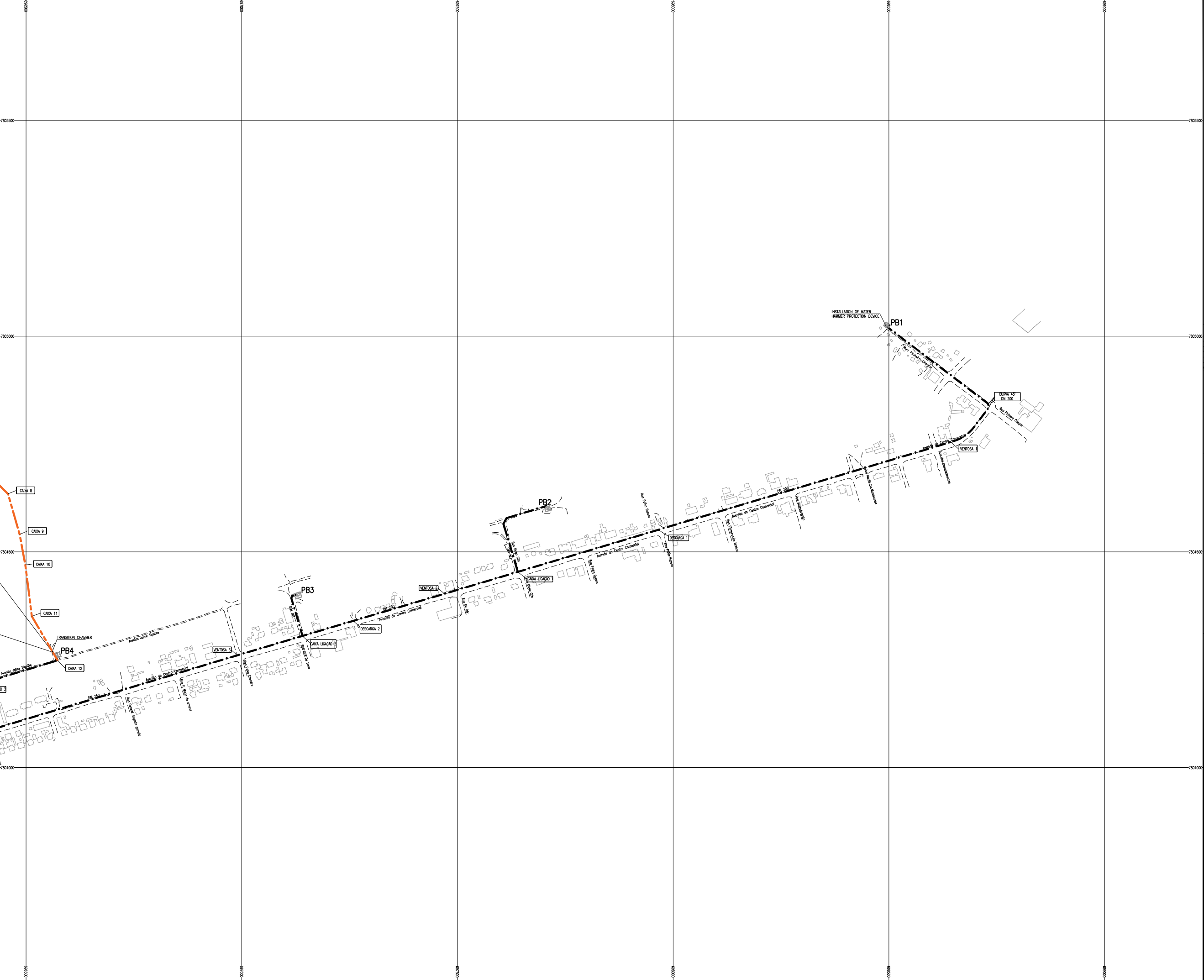
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE

SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

PUMPING SYSTEMS
GENERAL LAYOUT PLAN
SHEET 2 OF 3

DESIGN BY:	PM	DRAWN BY:	AW
CHECKED BY:	MJB	APPROVED BY:	JF
SCALE:	1:2500 (A1)	DATE:	MAY 2022
JOB No. MZSP00512E			
DRAWING No.		Revision	
EEAS/BSMP/MOZ/PS.GP.01		A B C D E F G H I J K L	



LEGEND

SYMBOLOLOGY:

- EXISTING PRESSURE PIPE, TO MAINTAIN
- EXISTING PRESSURE PIPE, TO REPLACE
- NEW PRESSURE PIPE, TO INSTALL
- EXISTING PRESSURE PIPE (ALIGNMENTS TO CONFIRM)
- CHAMBER TO BUILD/TO ADAPT
- EXISTING BUILDINGS

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:

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BENEFICIARY: AIAS, SASB

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI

BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE

SPECIFIC CONTRACT N° 300009970

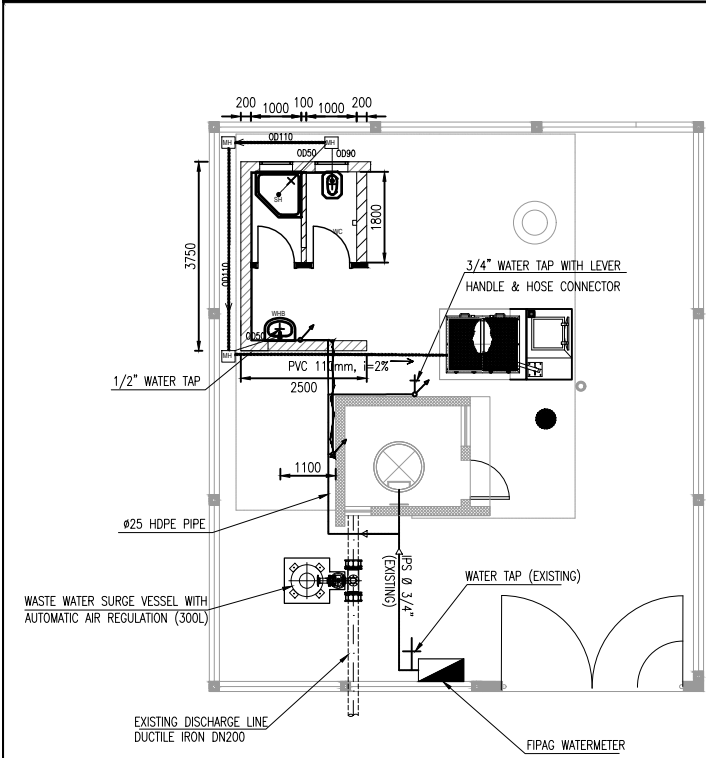
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PUMPING SYSTEMS
GENERAL LAYOUT PLAN
SHEET 3 OF 3

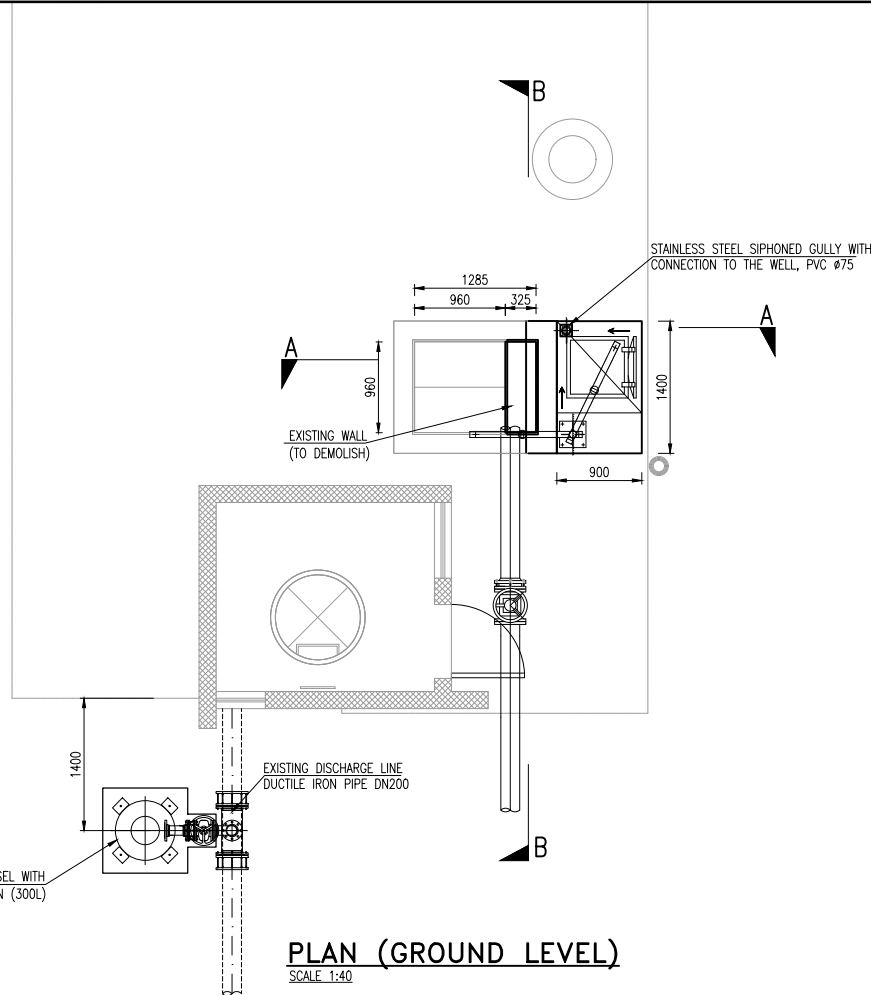
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SCALE:	1:2500 (A1)	DATE:	MAY 2022

JOB No. MZSP00512E

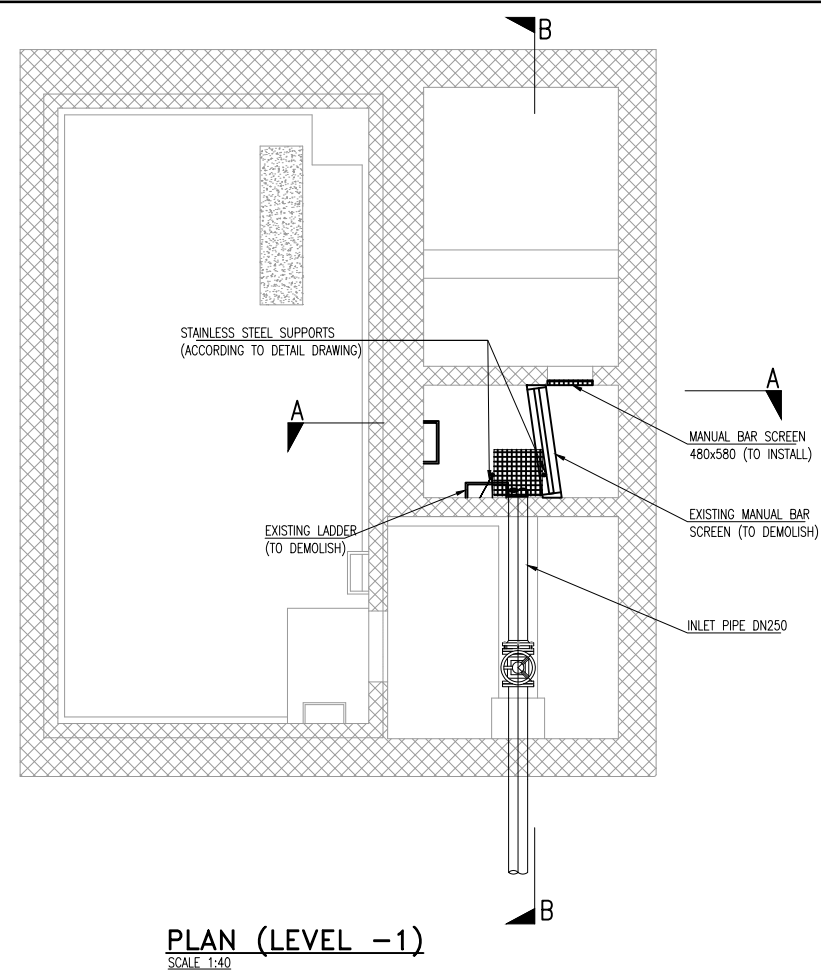
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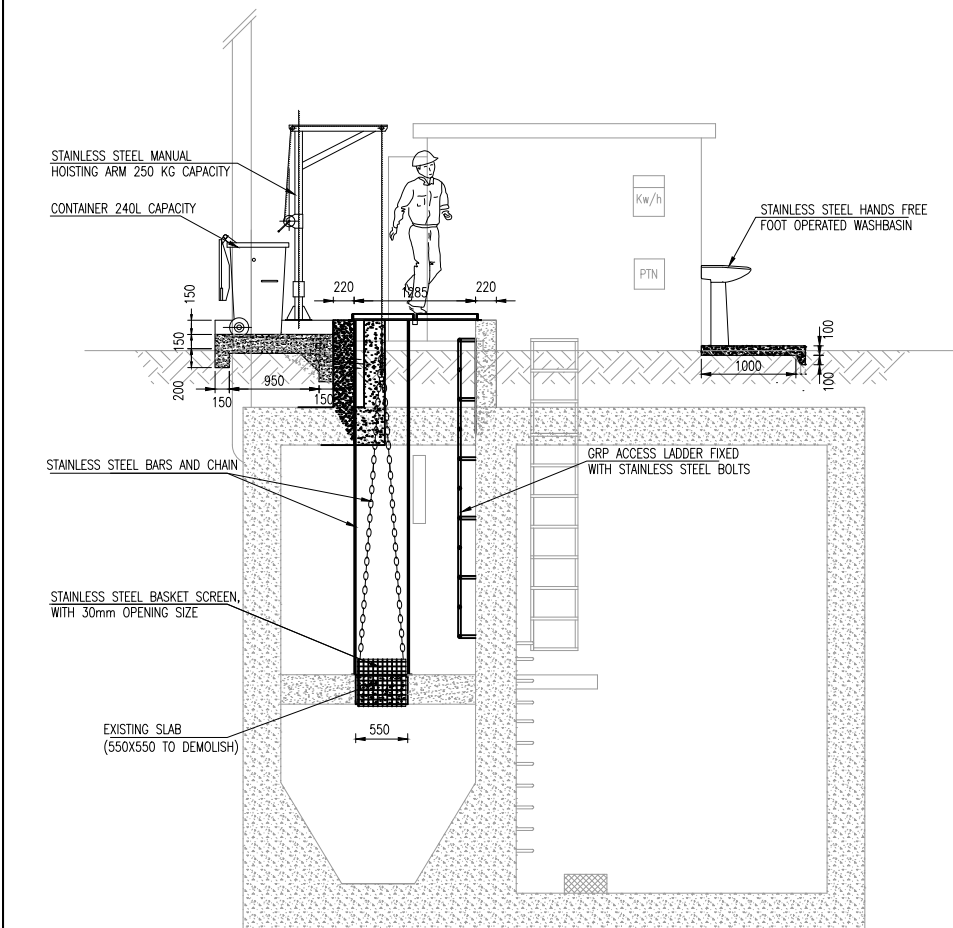
GENERAL LAYOUT
SCALE 1:75



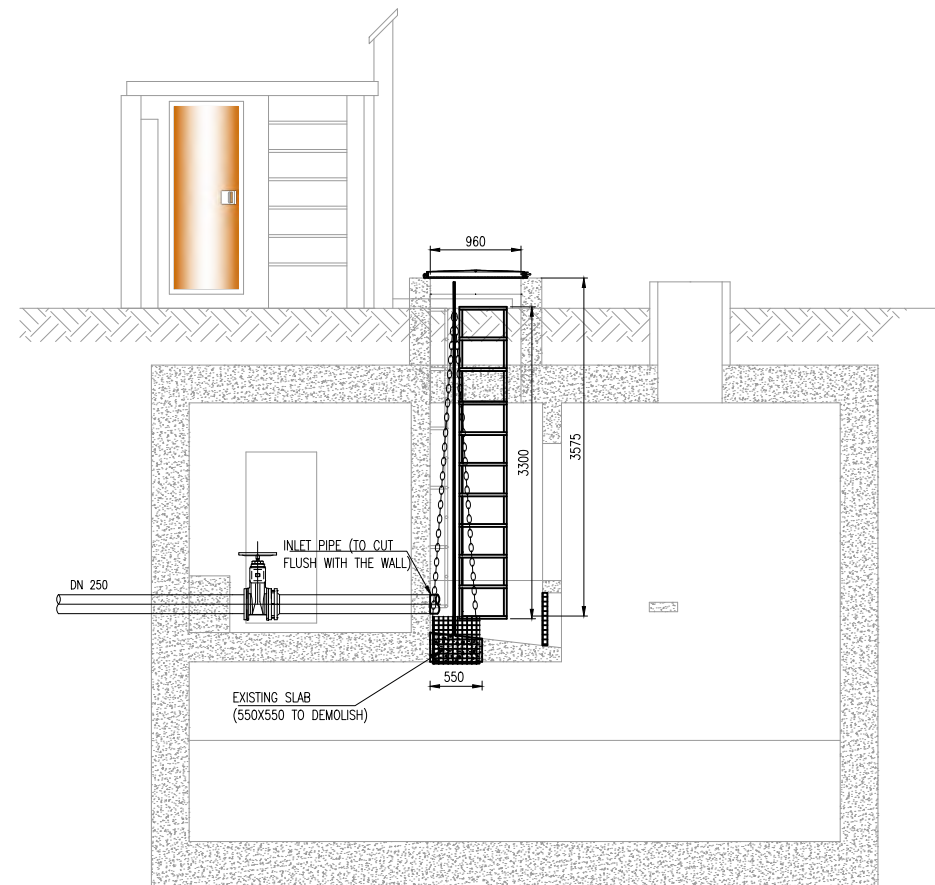
PLAN (GROUND LEVEL)
SCALE 1:40



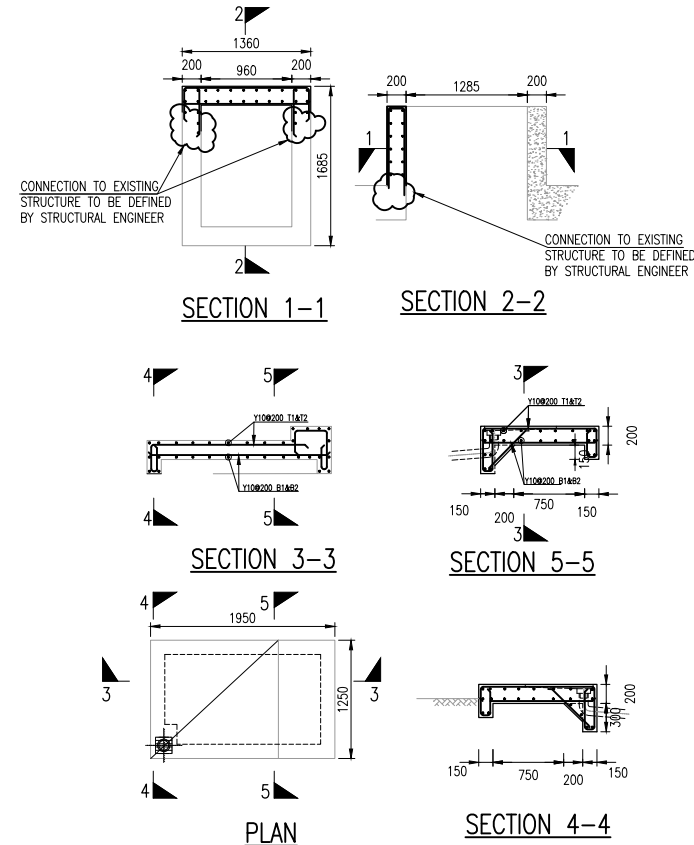
PLAN (LEVEL -1)
SCALE 1:40



SECTION A-A
SCALE 1:40



SECTION B-B
SCALE 1:40



REINFORCED CONCRETE DETAILS
SCALE 1:40

NOTES:

- STRUCTURAL ENGINEER TO DEFINE:
1. CONCRETE CLASS TO BE USED.
 2. CUTTING DETAIL WHERE SLAB NEEDS TO BE CUT.
 3. CONNECTION TO EXISTING STRUCTURE
 4. REFER TO DRAWING NO. **EEAS/BSMP/MOZ/PS.CW.01** FOR REINFORCEMENT DETAILS

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR.

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM
BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÓNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

PLANET PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
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IN ASSOCIATION WITH:
SEURECA **VEOLIA** SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

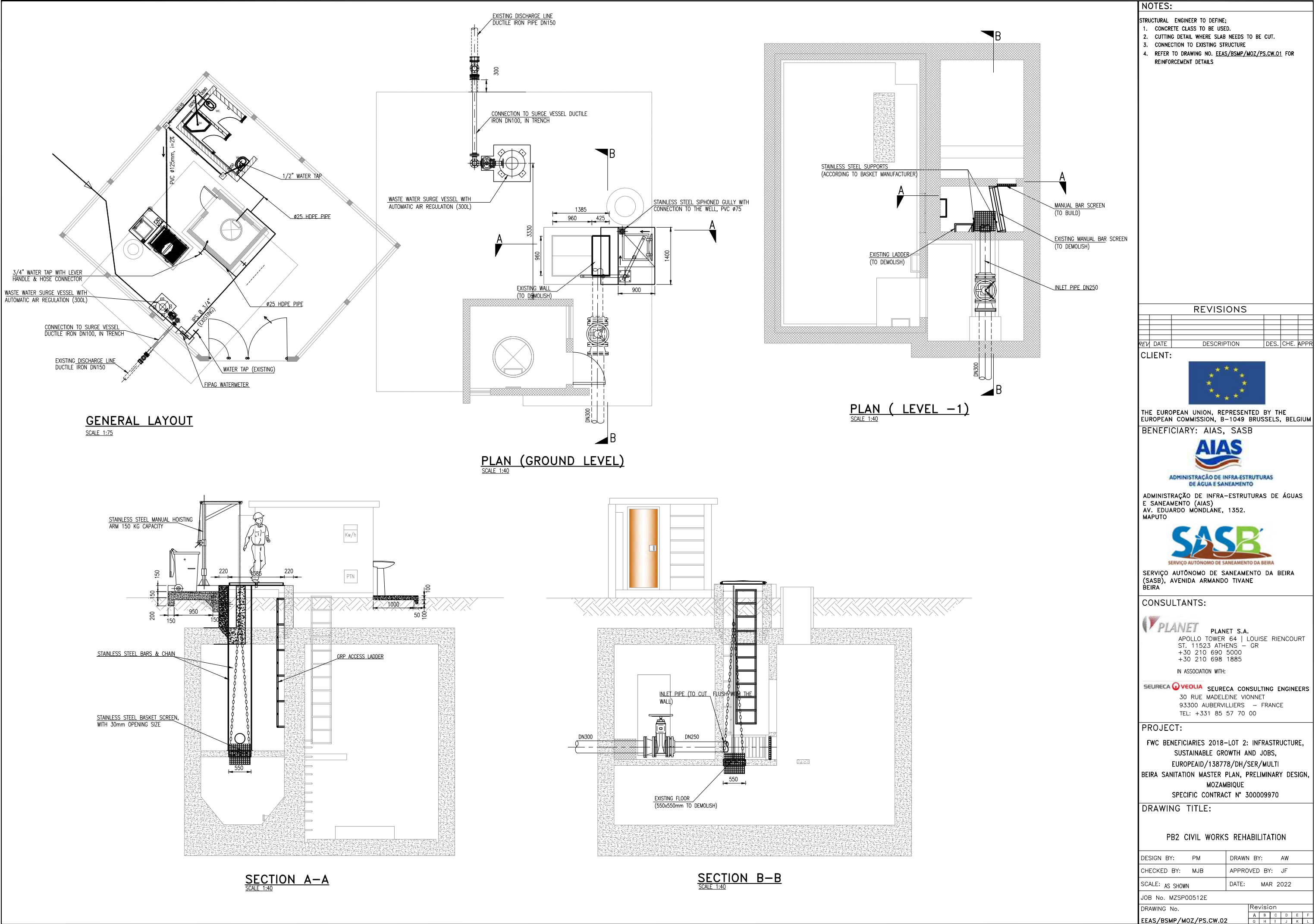
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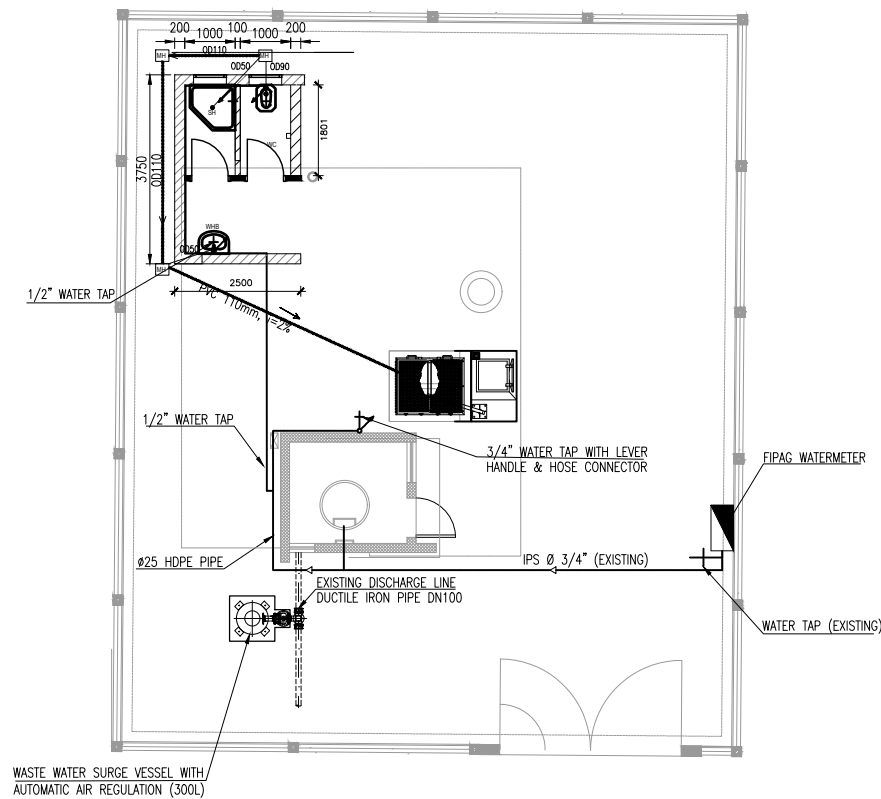
FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

PB1 CIVIL WORKS REHABILITATION

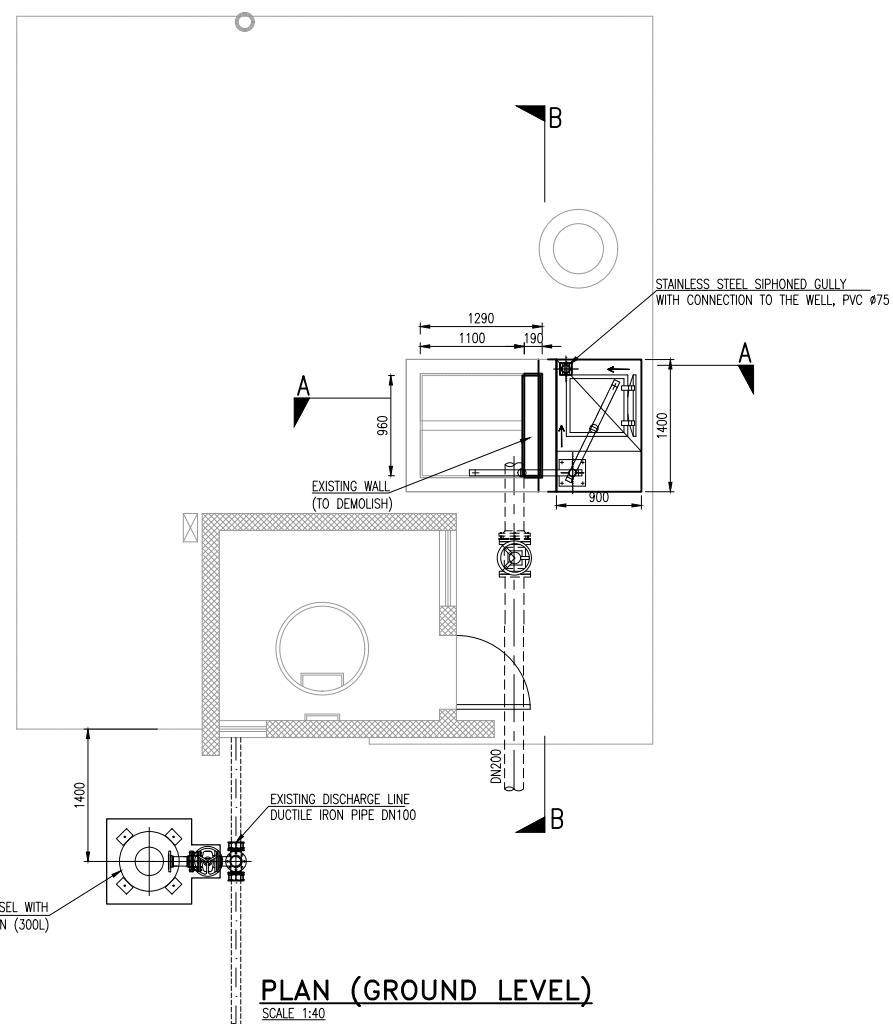
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DRAWING No.	Revision
EEAS/BSMP/MOZ/PS.CW.01	A B C D E F G H I J K L



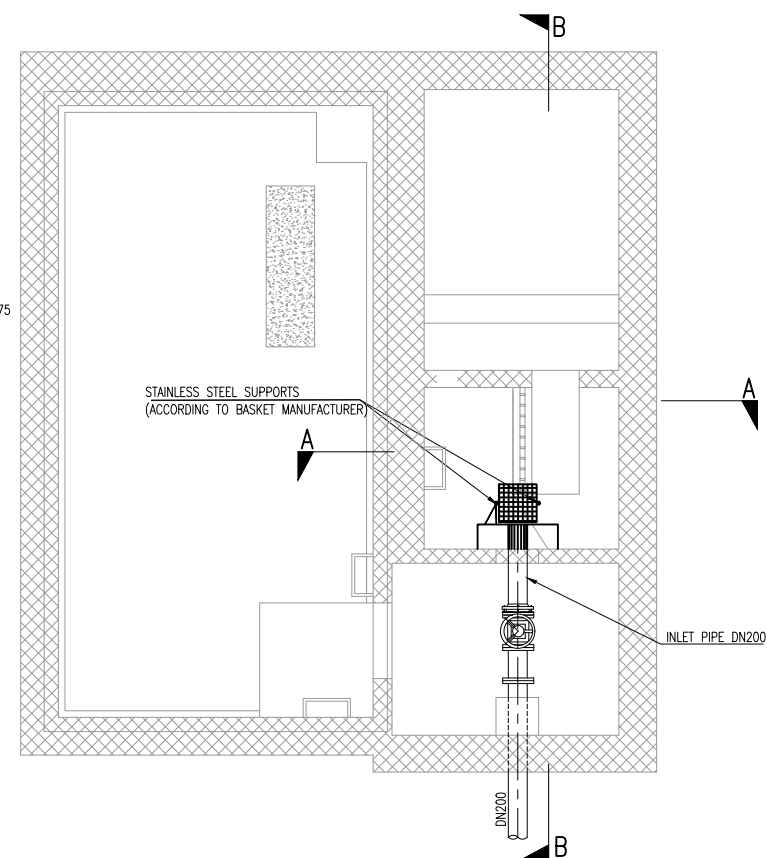


GENERAL LAYOUT
SCALE 1:75

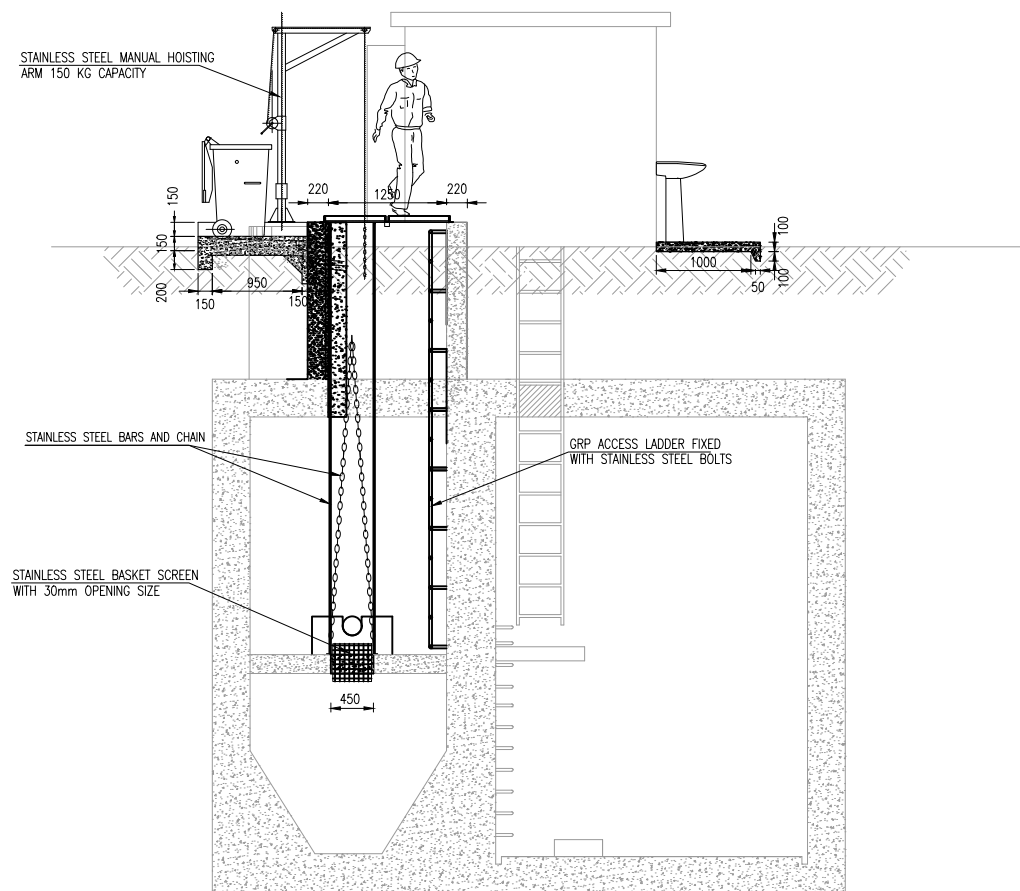
WASTE WATER SURGE VESSEL WITH
AUTOMATIC AIR REGULATION (300L)



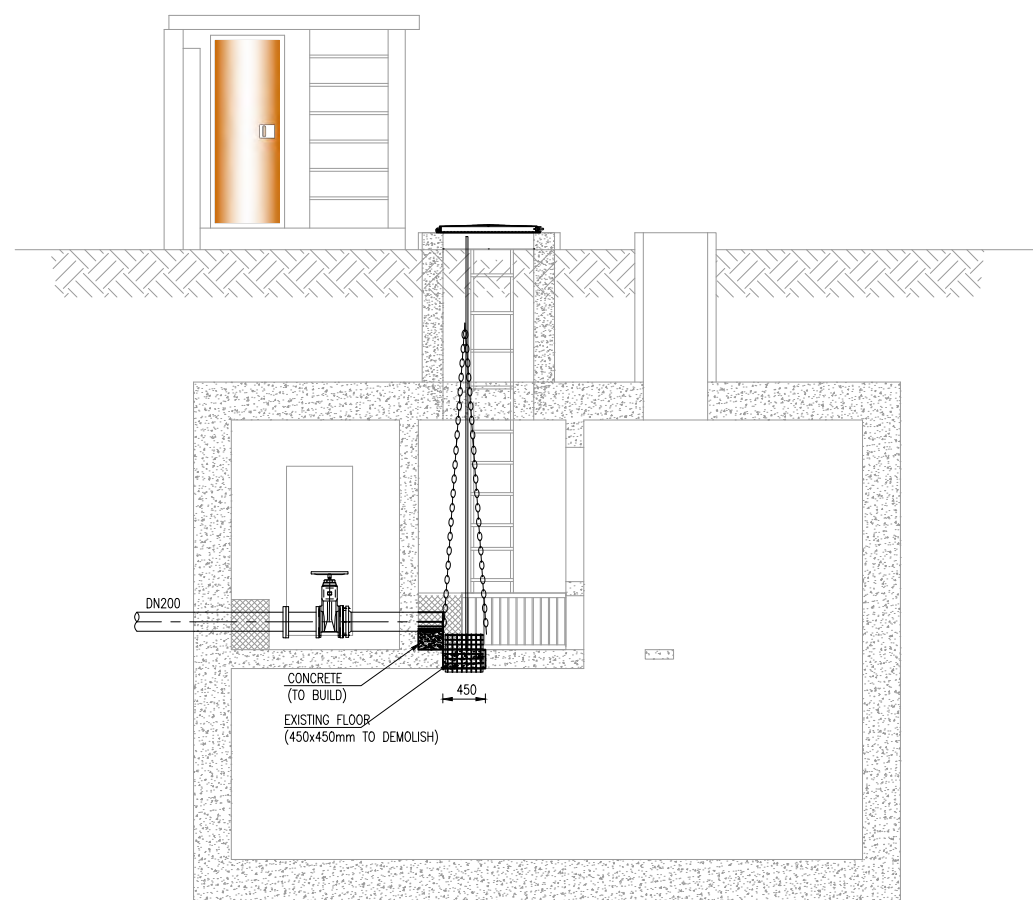
PLAN (GROUND LEVEL)
SCALE 1:40



PLAN (LEVEL-1)
SCALE 1:40



SECTION A-A
SCALE 1:40



SECTION B-B
SCALE 1:40

NOTES:

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1. CONCRETE CLASS TO BE USED.
 2. CUTTING DETAIL WHERE SLAB NEEDS TO BE CUT.
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REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR.

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE
EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM
BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS
E SANEAMENTO (AIAS)
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MAPUTO



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BEIRA

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PLANET PLANET S.A.
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ST. 11523 ATHENS - GR
+30 210 690 5000
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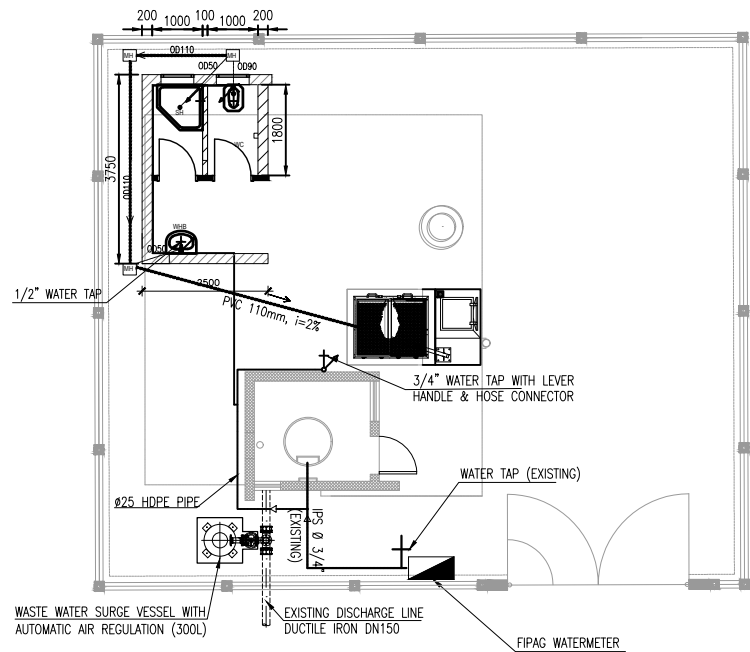
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

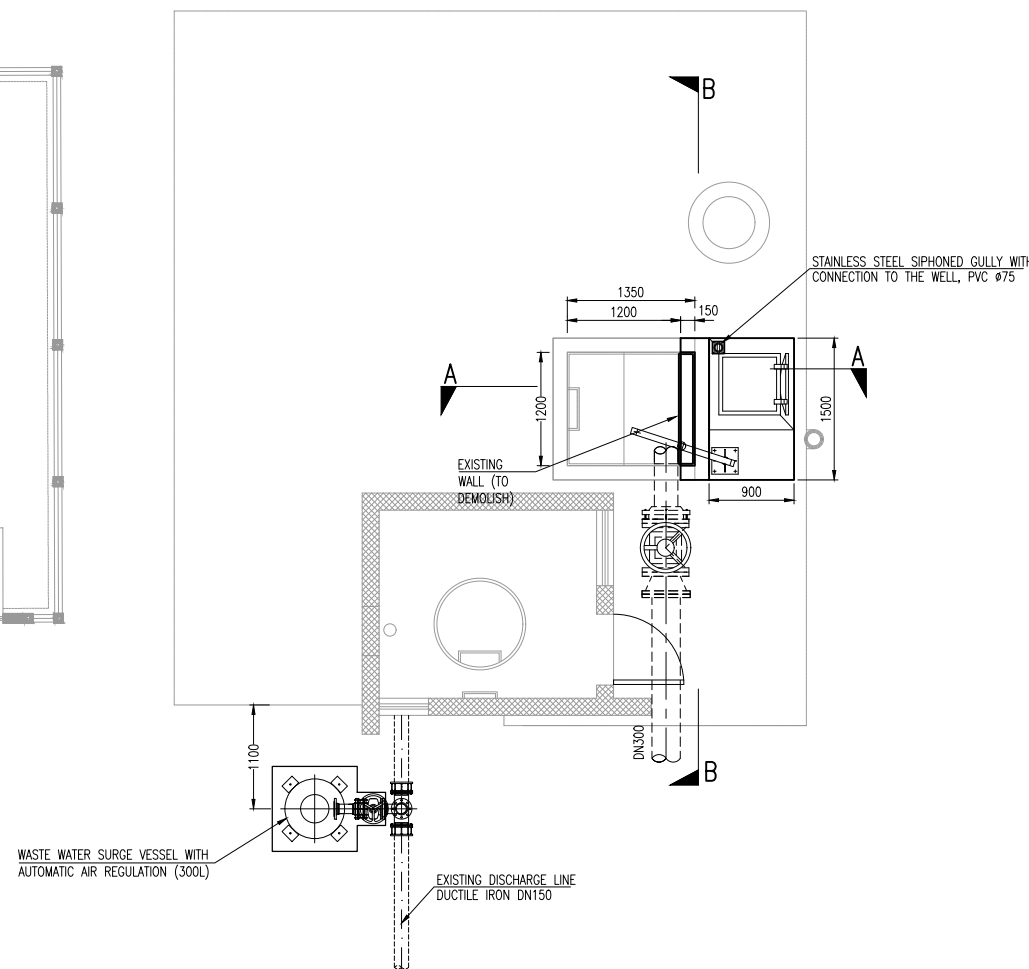
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PB3 CIVIL WORKS REHABILITATION

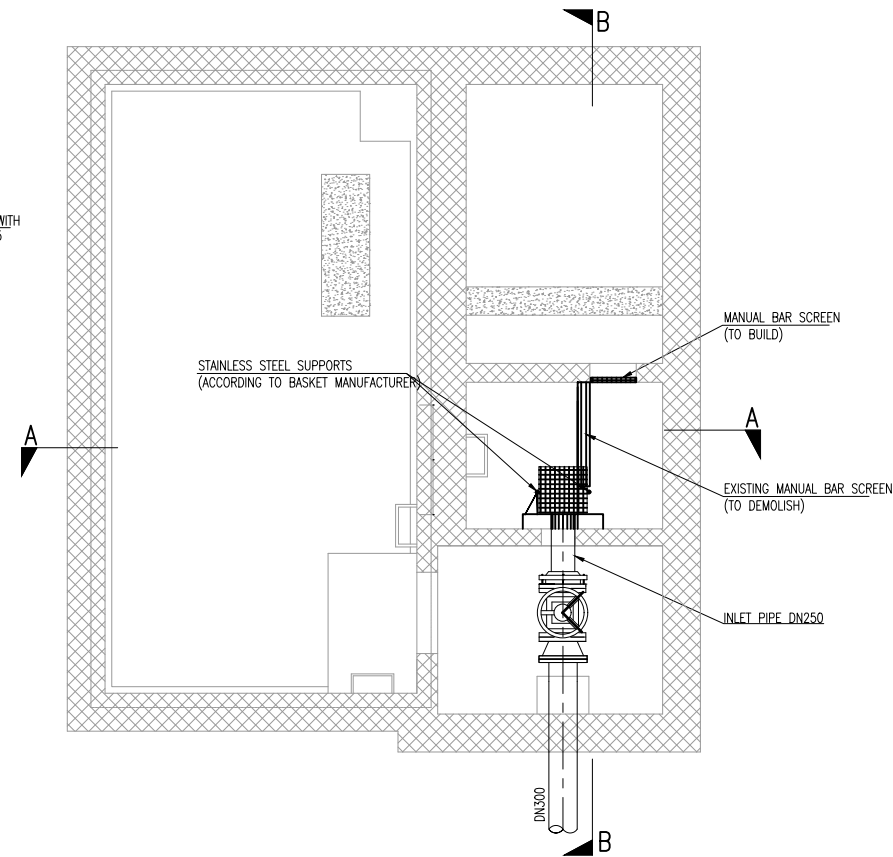
DESIGN BY:	PM	DRAWN BY:	AW
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JOB No.	MZSP00512E		
DRAWING No.	EEAS/BSMP/MOZ/PS.CW.03	Revision	
		A	B
		C	D
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		I	J
		K	L



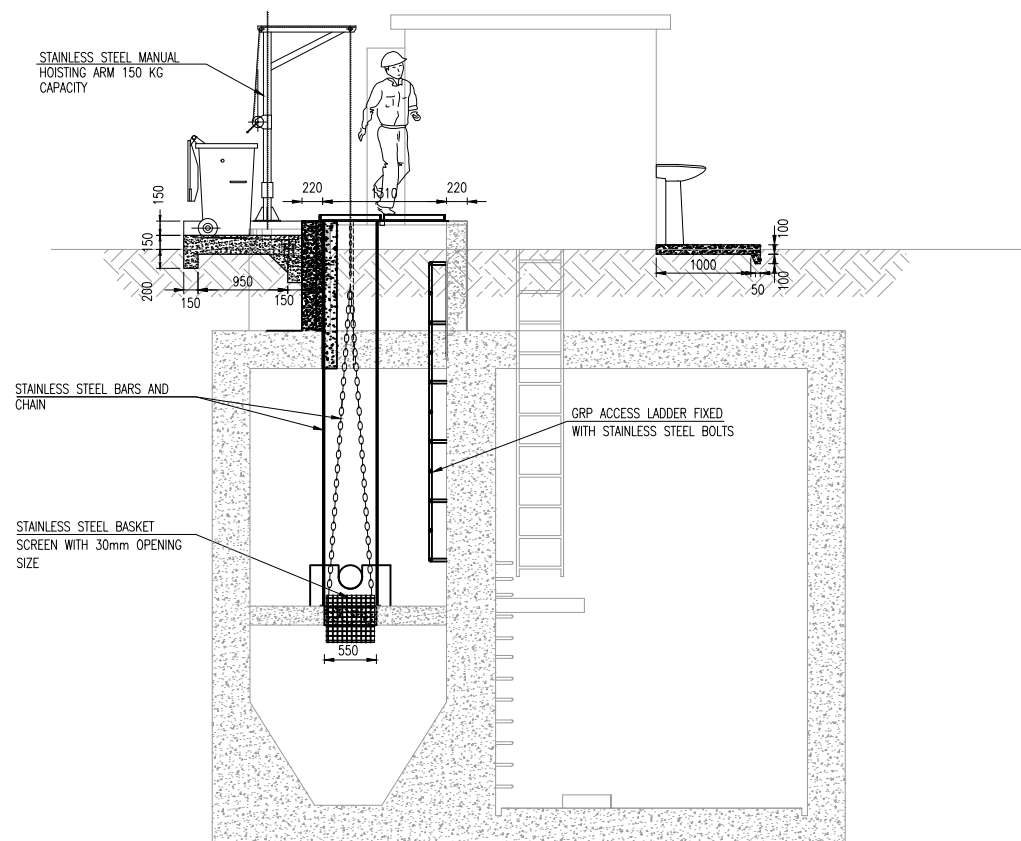
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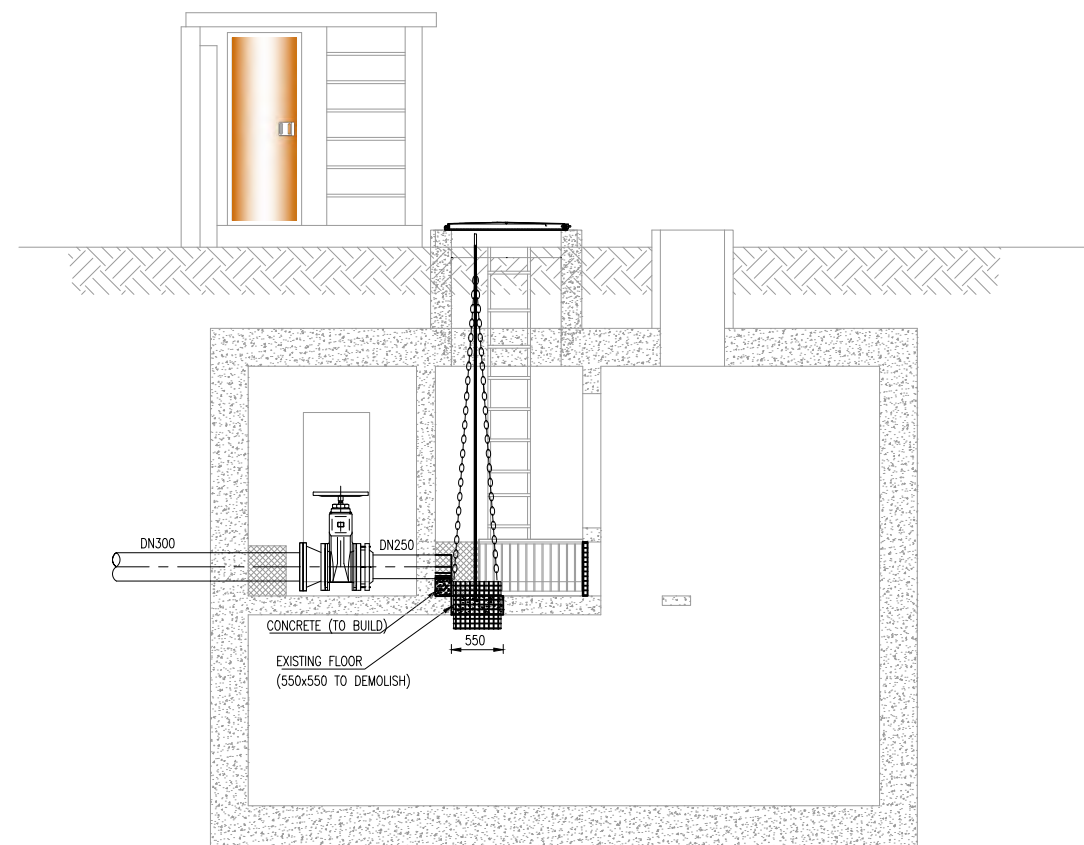
PLAN (GROUND LEVEL)
SCALE: 1:40



PLAN (LEVEL -1)
SCALE: 1:40



SECTION A-A
SCALE: 1:40



SECTION B-B
SCALE: 1:40

NOTES:

- STRUCTURAL ENGINEER TO DEFINE:
1. CONCRETE CLASS TO BE USED.
 2. CUTTING DETAIL WHERE SLAB NEEDS TO BE CUT.
 3. CONNECTION TO EXISTING STRUCTURE
 4. REFER TO DRAWING NO. **EEAS/BSMP/MOZ/PS.CW.01** FOR REINFORCEMENT DETAILS

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR.

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE
EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM
BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS
E SANEAMENTO (AIAS)
AV. EDUARDO MÓNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA
(SASB), AVENIDA ARMANDO TIVANE
BEIRA

CONSULTANTS:

PLANET PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:
SEURECA **VEOLIA** SEURECA CONSULTING ENGINEERS
30 RUE MADELINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

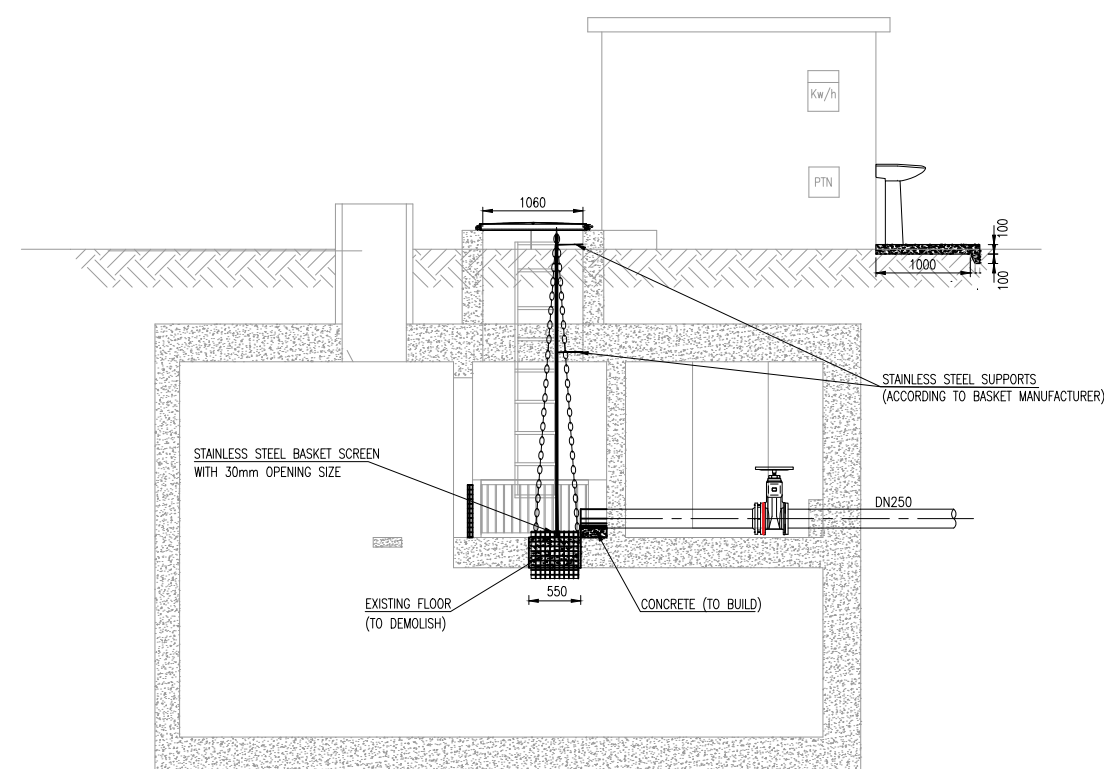
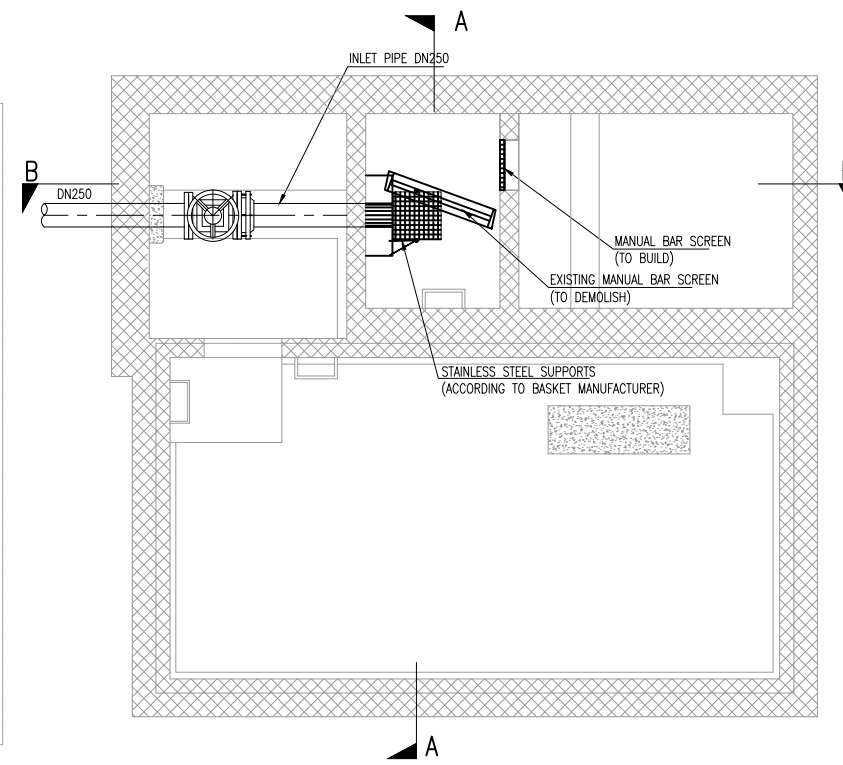
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

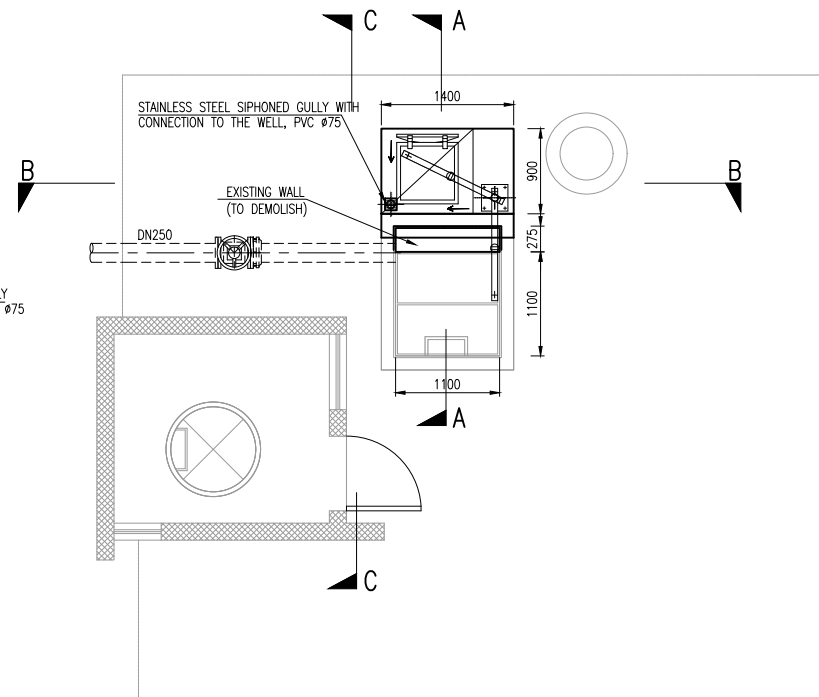
DRAWING TITLE:

PB4 CIVIL WORKS REHABILITATION

DESIGN BY: PM	DRAWN BY: AW
CHECKED BY: MJB	APPROVED BY: JF
SCALE: AS SHOWN	DATE: MAR 2022
JOB No. MZSP00512E	
DRAWING No.	Revision
EEAS/BSMP/MOZ/PS.CW.04	A B C D E F G H I J K L



DESIGN BY: PM	DRAWN BY: AW												
CHECKED BY: MJB	APPROVED BY: JF												
SCALE: AS SHOWN	DATE: MAR 2022												
JOB No. MZSP00512E													
DRAWING No.													
Revision													
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G	H	I	J	K	L								
EEAS/BSPM/MOZ/PS.CW.05													

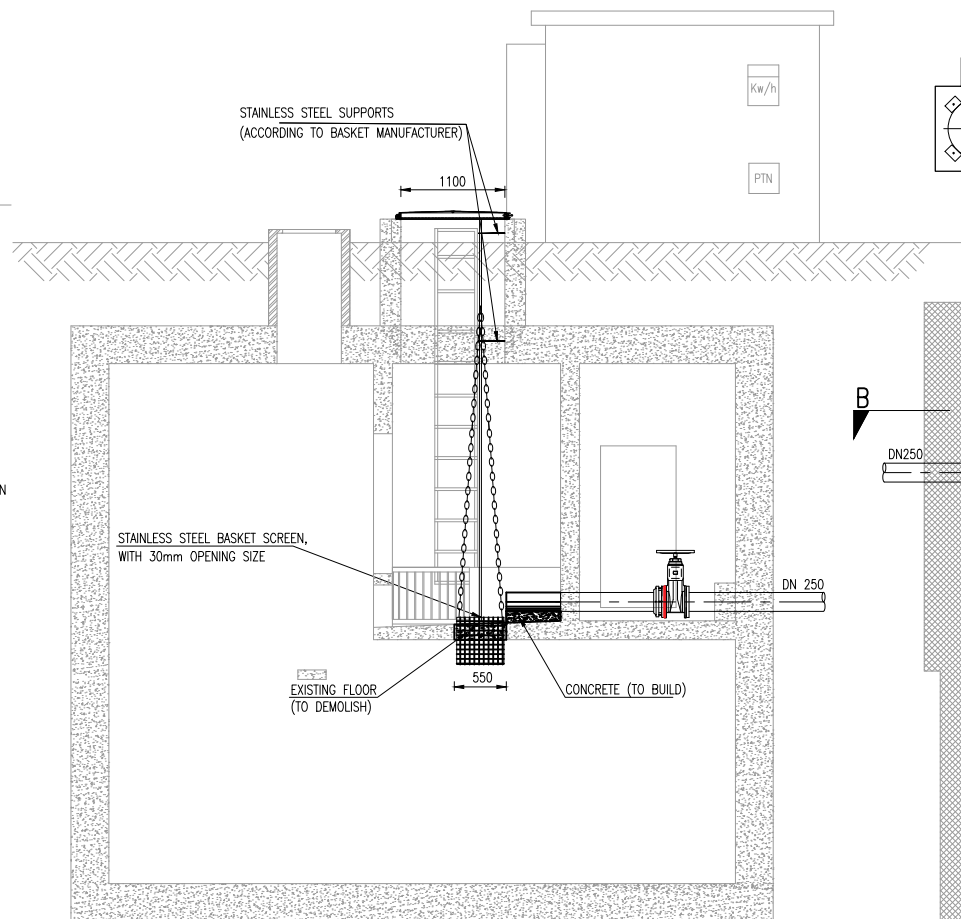


EXISTING DISCHARGE LINE
DUCTILE IRON DN200

900

CONNECTION TO SURGE VESSEL
DUCTILE IRON DN100, IN TRENCH (≈5m)

WASTE WATER SURGE VESSEL WITH
AUTOMATIC AIR REGULATION (300L)



Technical drawing of a wastewater treatment plant (WWTP) showing a plan view and a cross-section.

The plan view shows a rectangular building with a central rectangular area. The cross-section shows a vertical inlet pipe (DN250) entering a chamber, passing through a manual bar screen, and then through a series of stainless steel supports.

Labels in the plan view:

- EXISTING MANUAL BAR SCREEN (TO DEMOLISH)
- STAINLESS STEEL SUPPORTS (ACCORDING TO BASKET MANUFACTURER)

Labels in the cross-section:

- INLET PIPE DN250

Section lines are indicated by 'A' and 'B'.

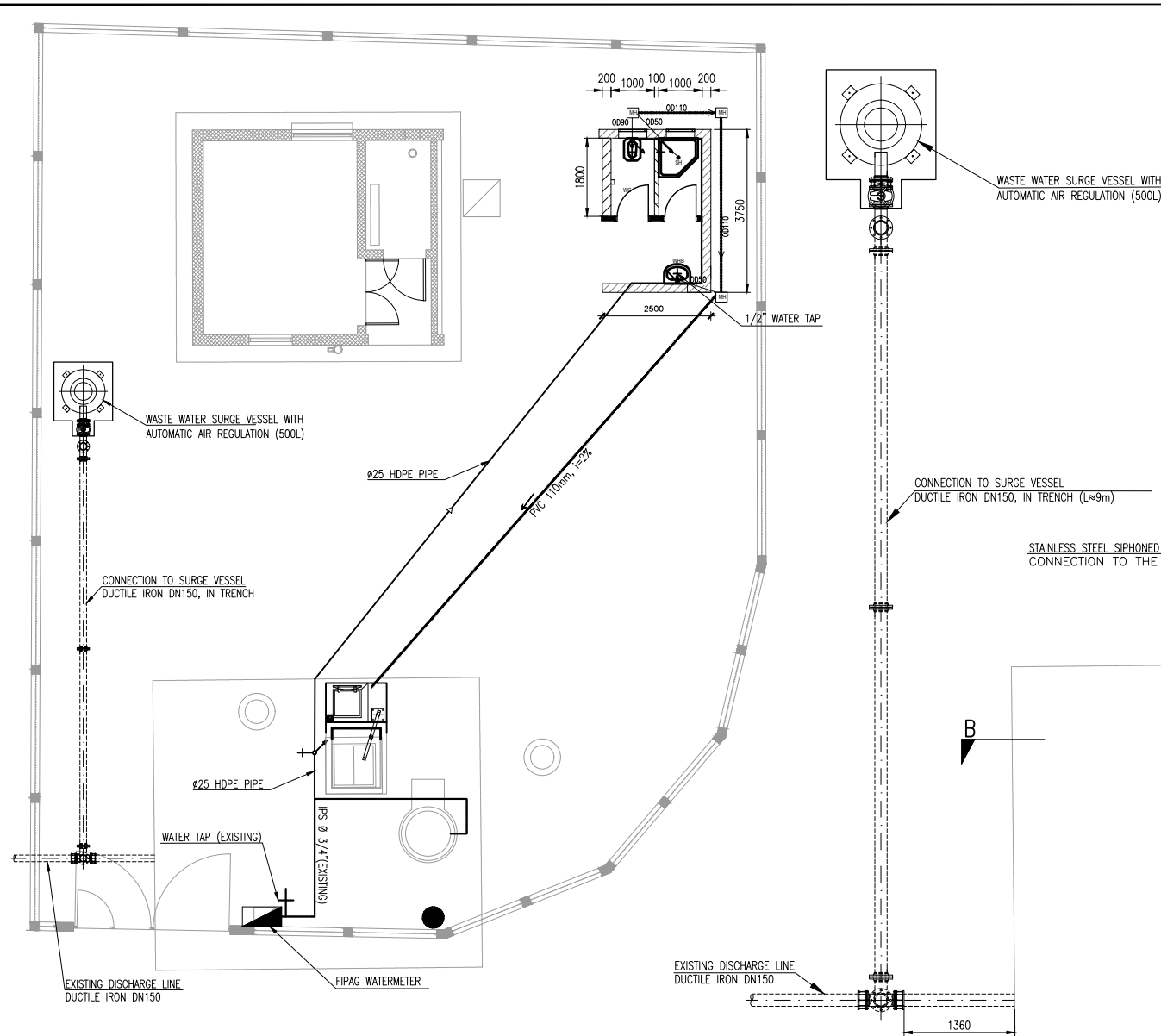
STAINLESS STEEL BASKET SCREEN, WITH 30mm OPENING SIZE

EXISTING FLOOR

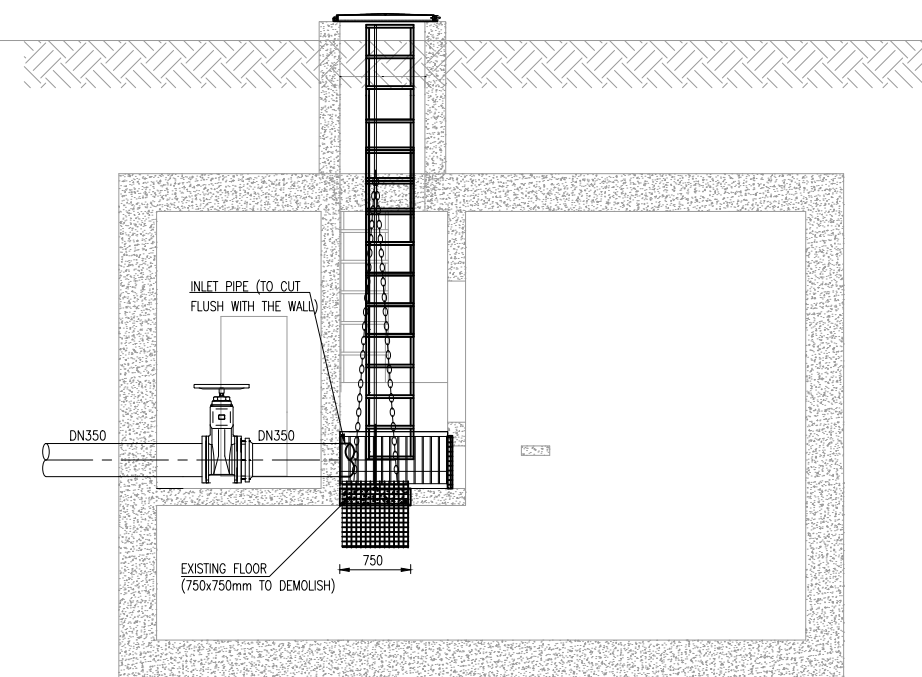
500

CONCRETE (TO BUILD)

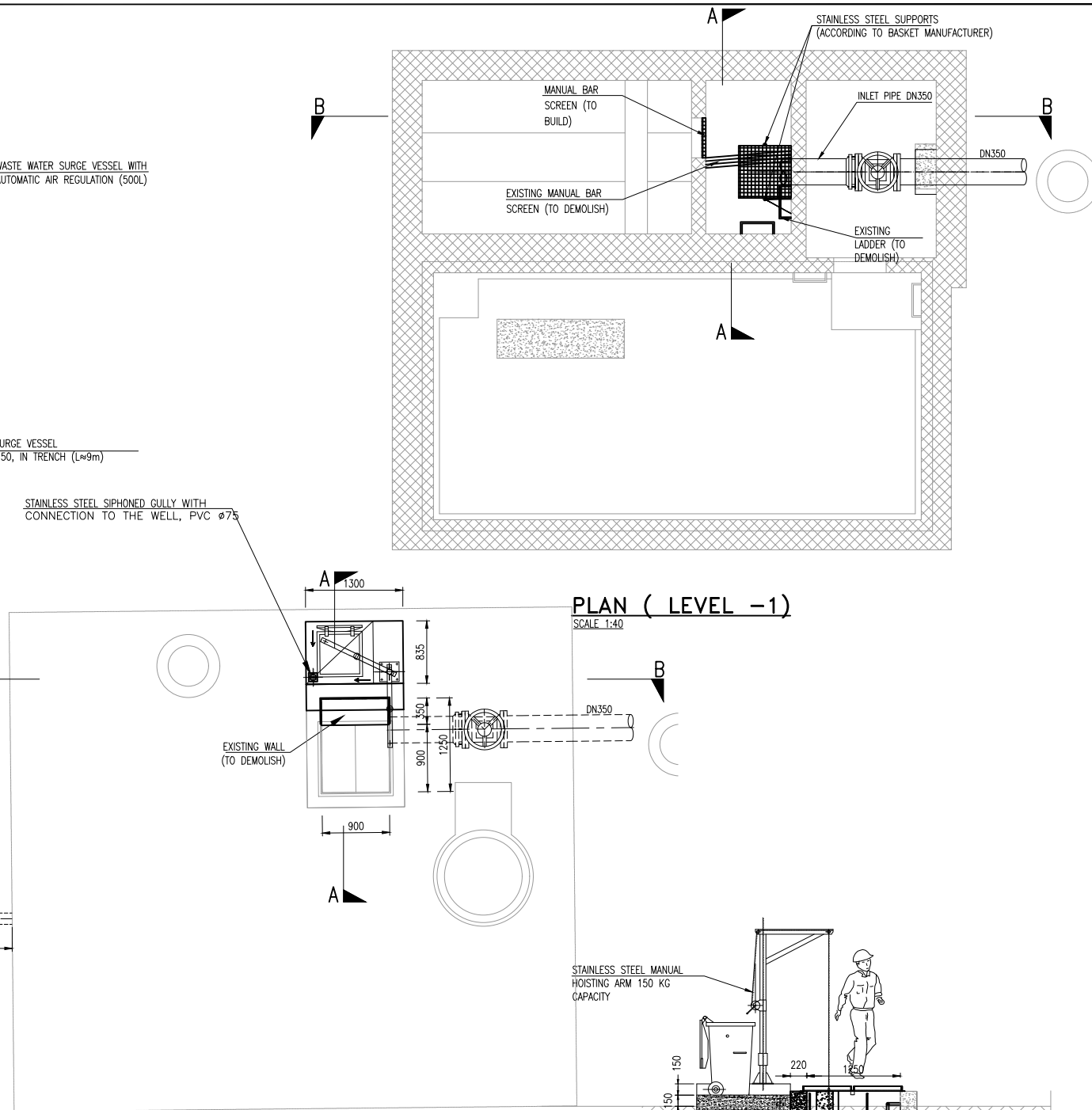
Revision



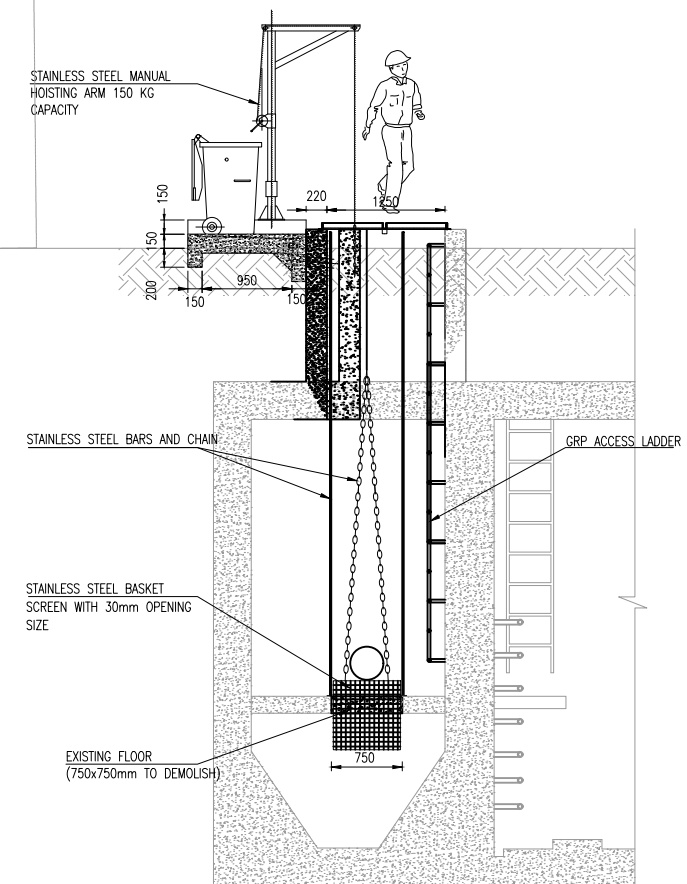
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SCALE: 1:75






SECTION B-B
SCALE: 1:40

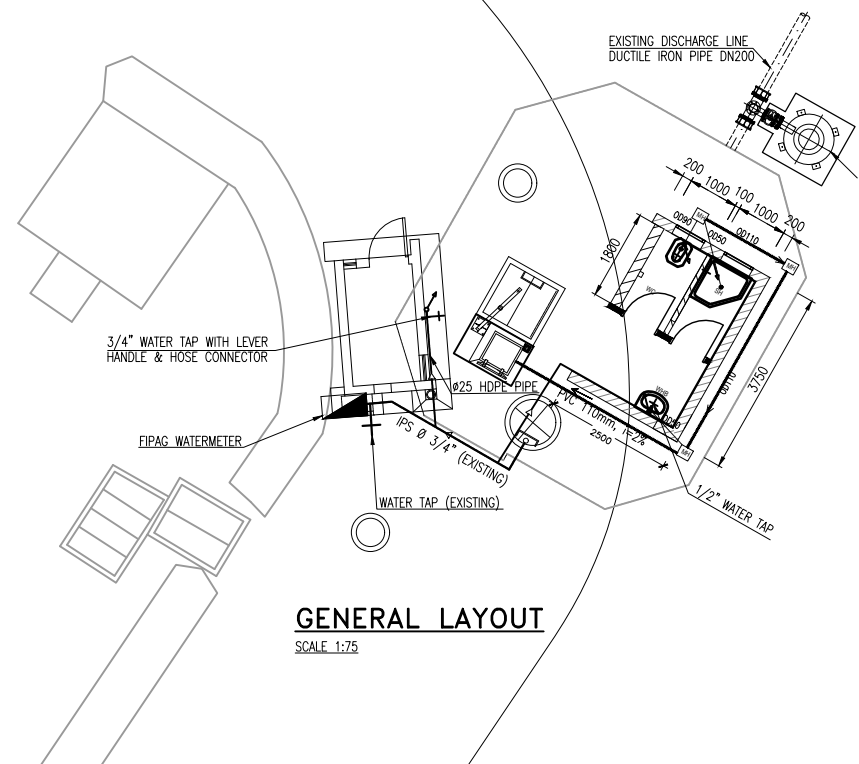


PLAN (GROUND LEVEL)
SCALE: 1:40

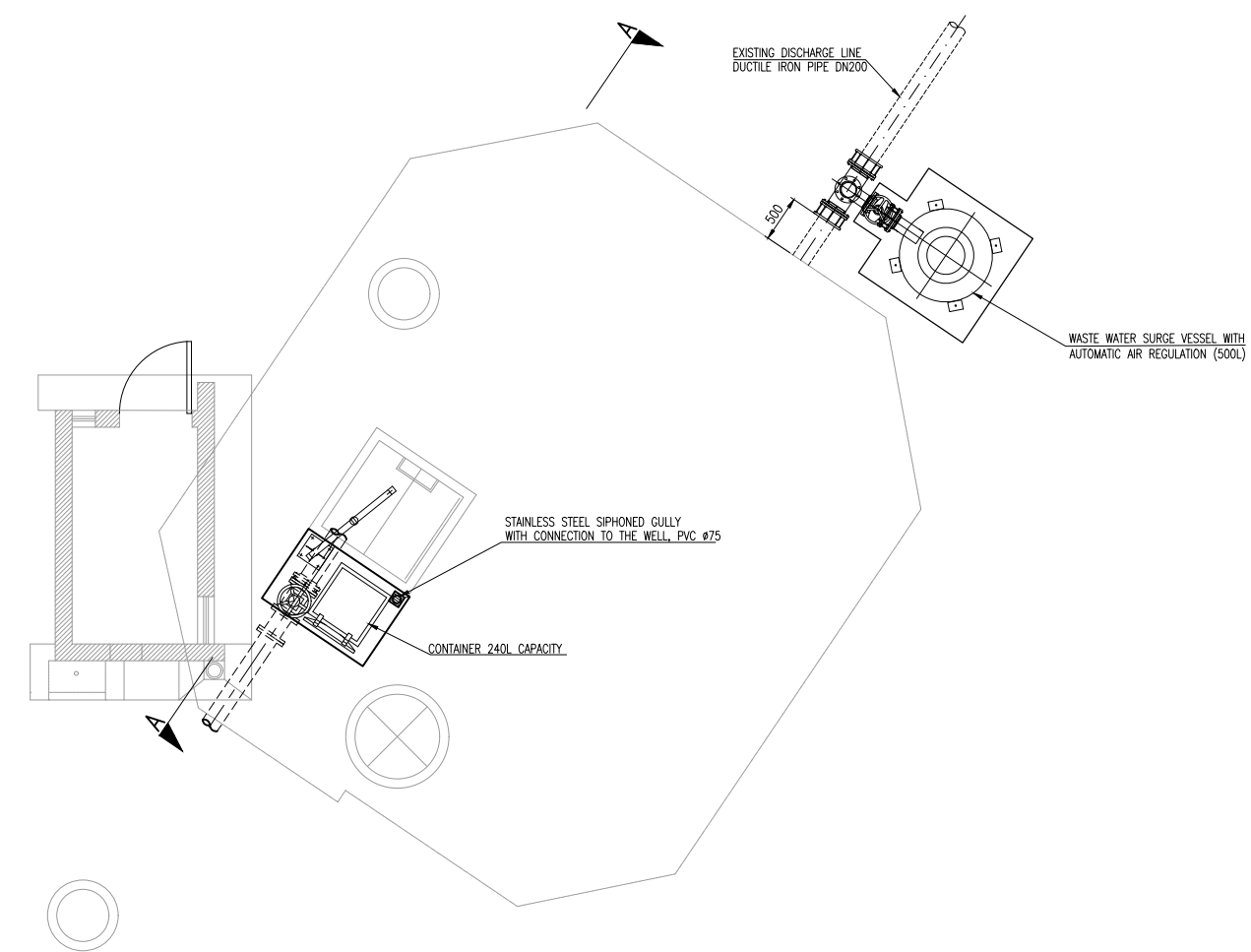


SECTION A-A
SCALE: 1:40

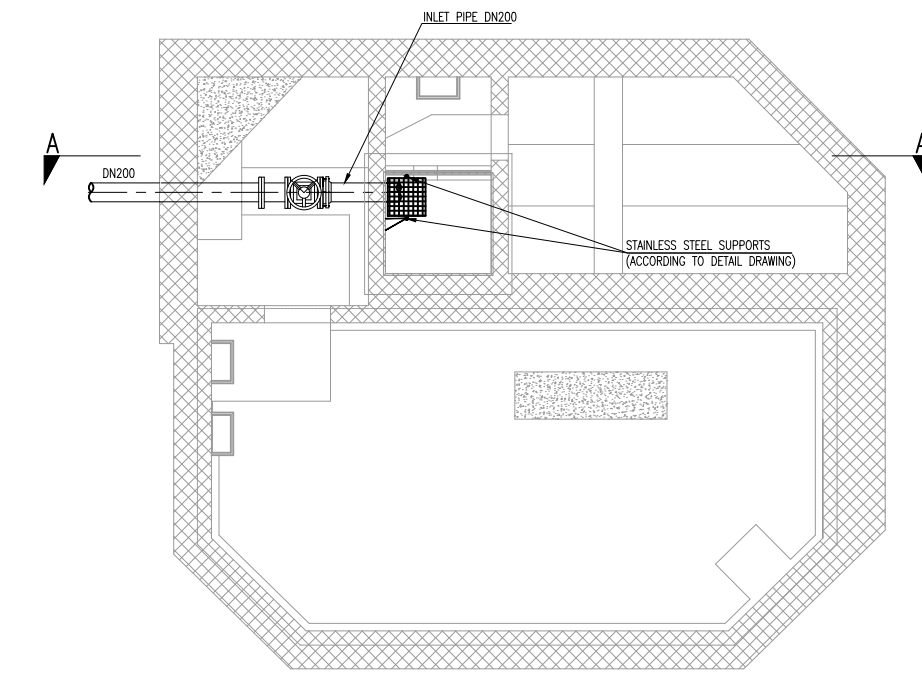
NOTES: STRUCTURAL ENGINEER TO DEFINE; 1. CONCRETE CLASS TO BE USED. 2. CUTTING DETAIL WHERE SLAB NEEDS TO BE CUT. 3. CONNECTION TO EXISTING STRUCTURE 4. REFER TO DRAWING NO. EEAS/BSMP/MOZ/PS.CW.01 FOR REINFORCEMENT DETAILS			
REVISIONS			
REV	DATE	DESCRIPTION	DES. CHE. APPR
CLIENT:			
			
THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM			
BENEFICIARY: AIAS, SASB			
			
ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO			
ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS) AV. EDUARDO MÓNDLANE, 1352. MAPUTO			
			
SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA			
CONSULTANTS:			
			
PLANET S.A. APOLLO TOWER 64 LOUISE RIENCOURT ST. 11523 ATHENS - GR +30 210 690 5000 +30 210 698 1885			
IN ASSOCIATION WITH:			
			
SEURECA CONSULTING ENGINEERS 30 RUE MADELEINE VIONNET 93300 AUBERVILLIERS - FRANCE TEL: +331 85 57 70 00			
PROJECT:			
FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE SPECIFIC CONTRACT N° 300009970			
DRAWING TITLE:			
PB7 CIVIL WORKS REHABILITATION			
DESIGN BY:	PM	DRAWN BY:	AW
CHECKED BY:	MJB	APPROVED BY:	JF
SCALE:	AS SHOWN	DATE:	MAR 2022
JOB No.	MZSP00512E	Revision	
DRAWING No.	EEAS/BSMP/MOZ/PS.CW.07	A	B
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		E	F
		G	H
		I	J
		K	L



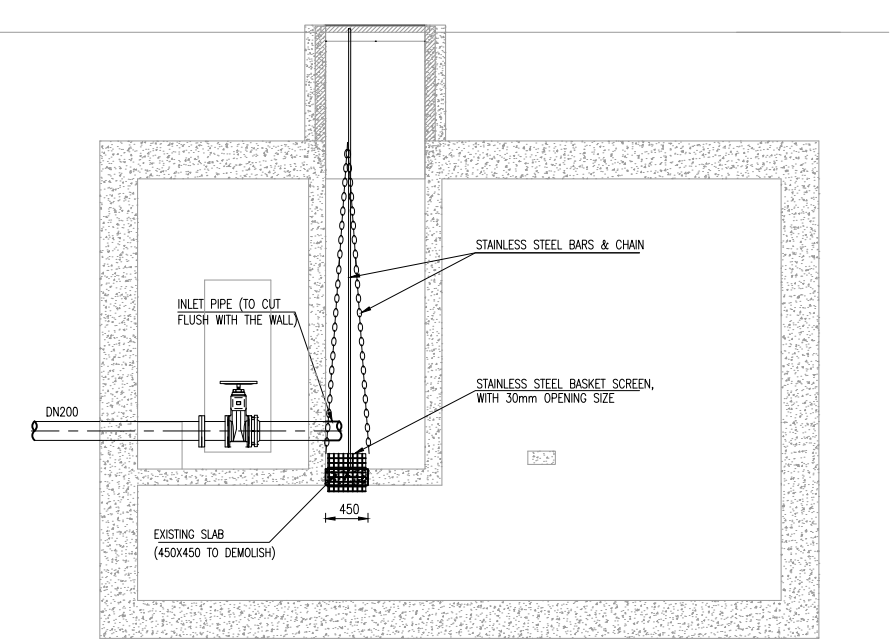
GENERAL LAYOUT
SCALE 1:75



PLAN (GROUND LEVEL)
SCALE 1:40



PLAN (LEVEL -1)
SCALE 1:40





SECTION A-A
SCALE 1:40



NOTES:
STRUCTURAL ENGINEER TO DEFINE:
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REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR.

CLIENT:

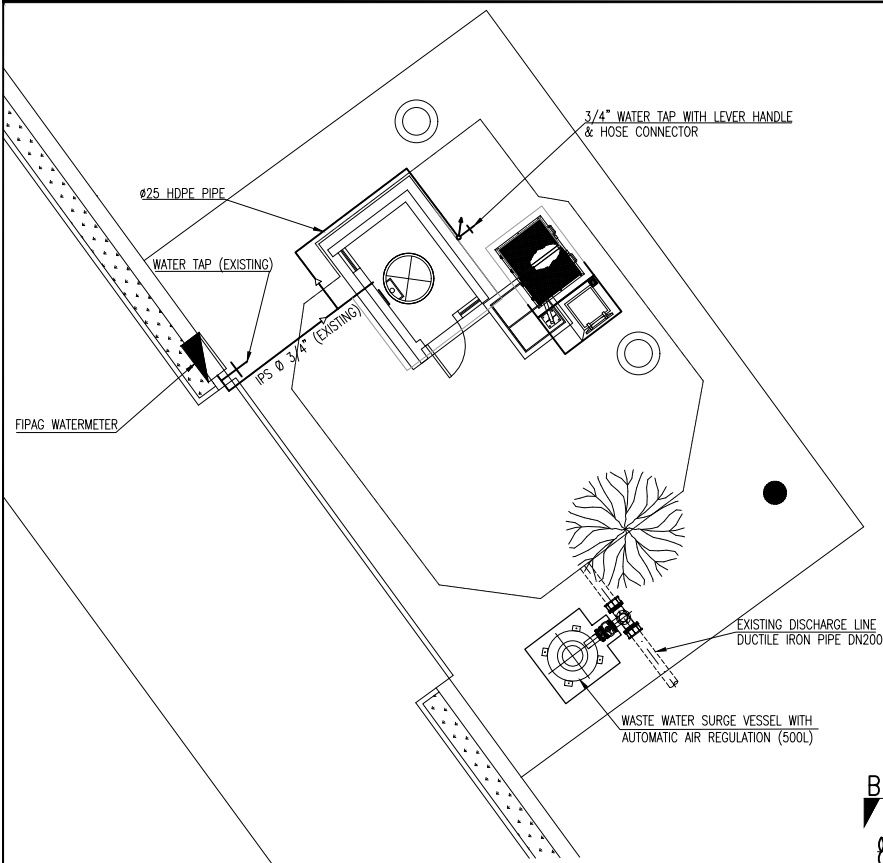
THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM
BENEFICIARY: AIAS, SASB

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ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÓNDLANE, 1352.
MAPUTO

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APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885
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30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

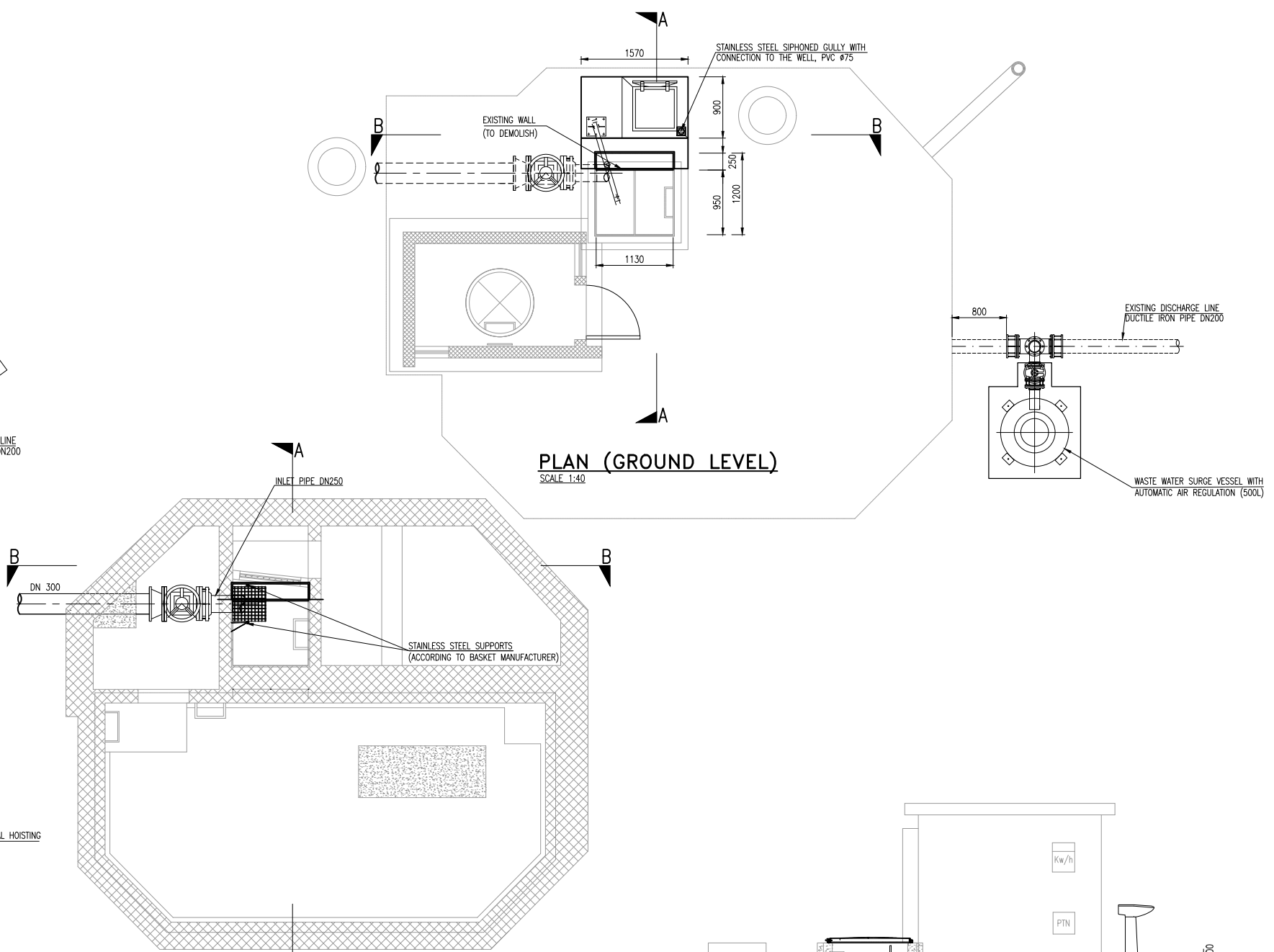
PROJECT:
FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:
PB8 CIVIL WORKS REHABILITATION

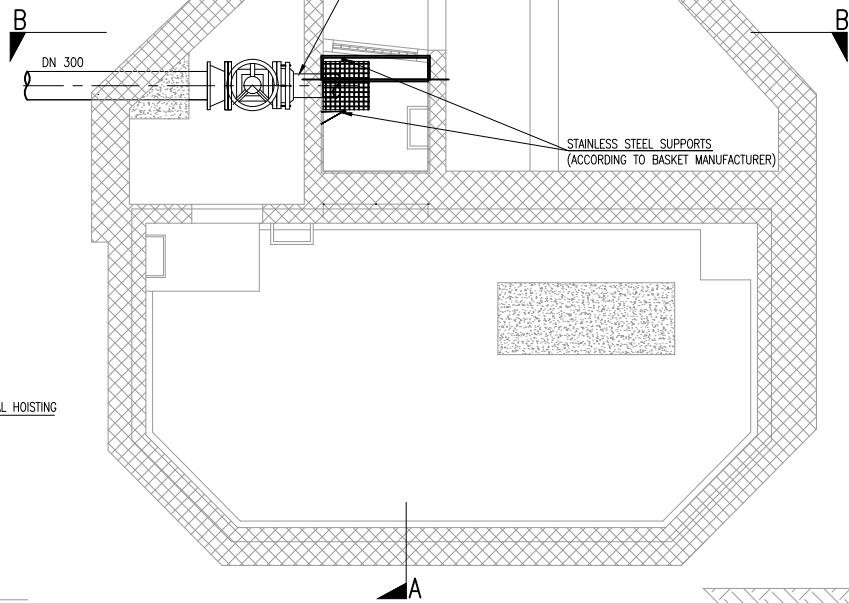
DESIGN BY:	PM	DRAWN BY:	AW
CHECKED BY:	MJB	APPROVED BY:	JF
SCALE:	AS SHOWN	DATE:	MAR 2022
JOB No. MZSP00512E			
DRAWING No.		Revision	
EEAS/BSMP/MOZ/PS.CW.08		A B C D E F G H I J K L	



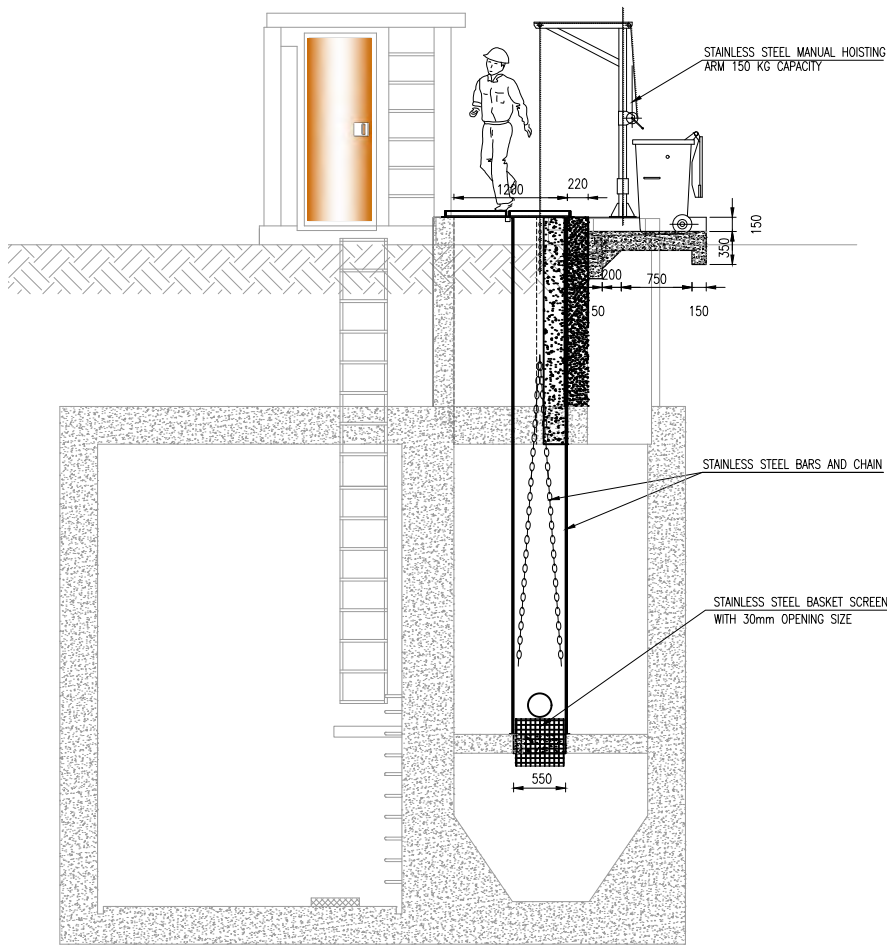
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SCALE 1:75



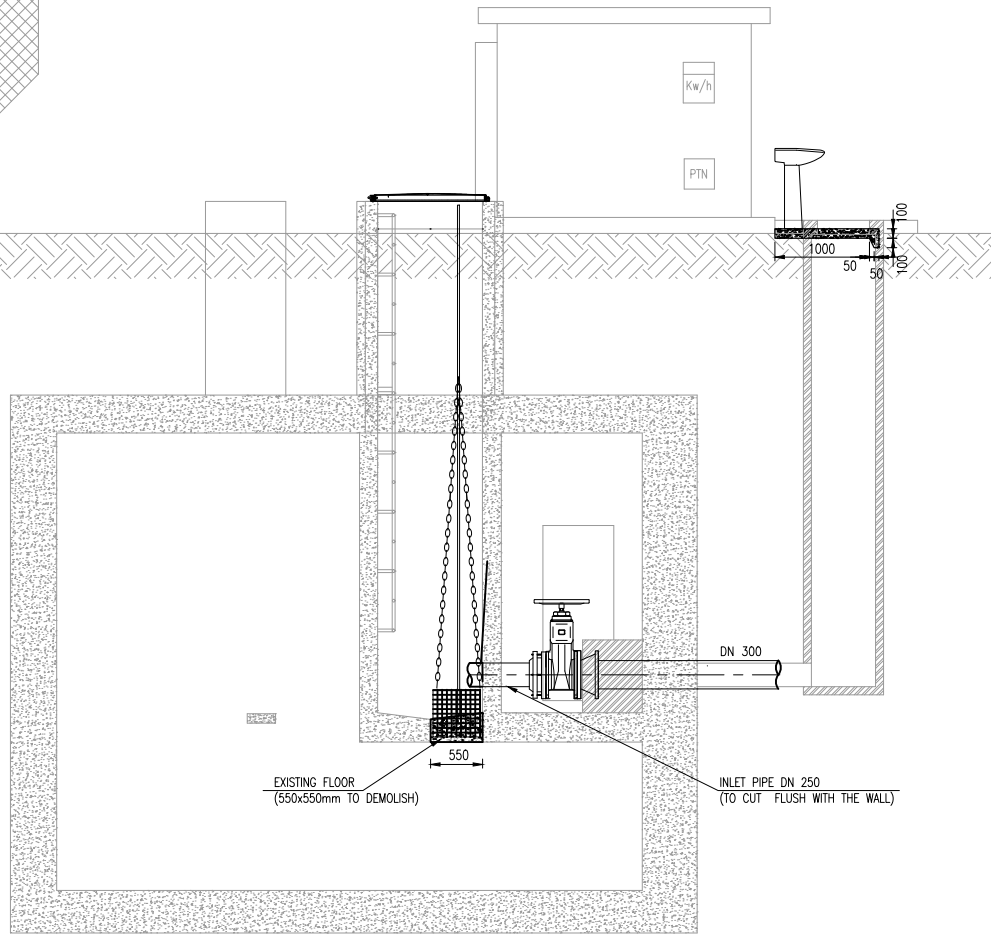
PLAN (GROUND LEVEL)
SCALE 1:40



PLAN (LEVEL -1)
SCALE 1:40



SECTION A-A
SCALE 1:40



SECTION B-B
SCALE 1:40

NOTES:


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REVISIONS


REV	DATE	DESCRIPTION	DES.	CHE.	APPR.

CLIENT:




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BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÓNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

 **PLANET S.A.**
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

 **SEURECA CONSULTING ENGINEERS**
30 RUE MADELINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

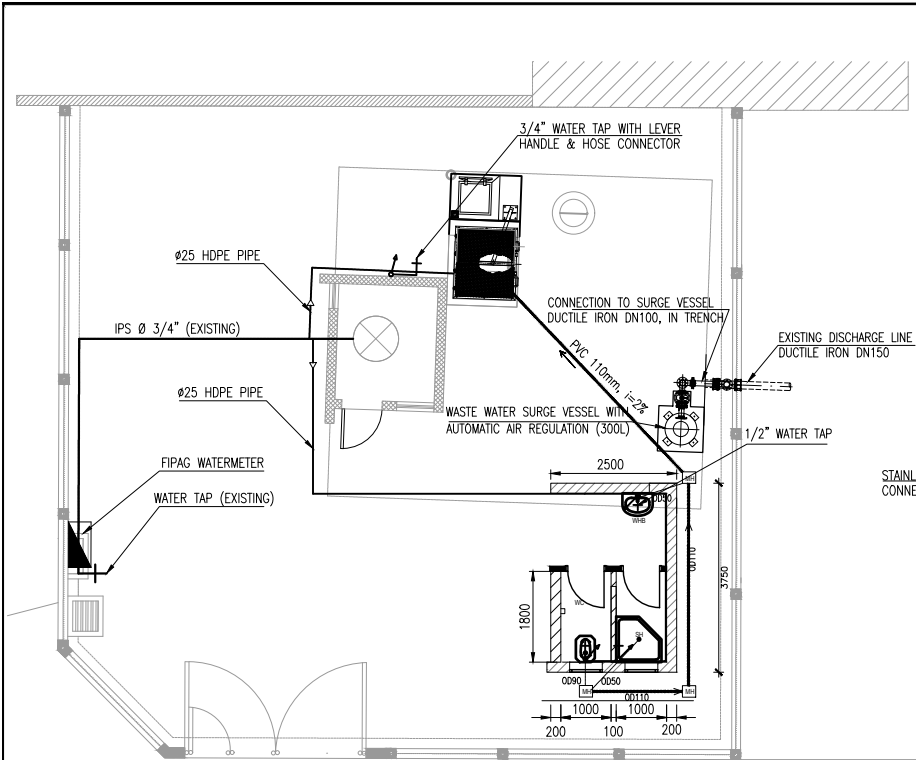
PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

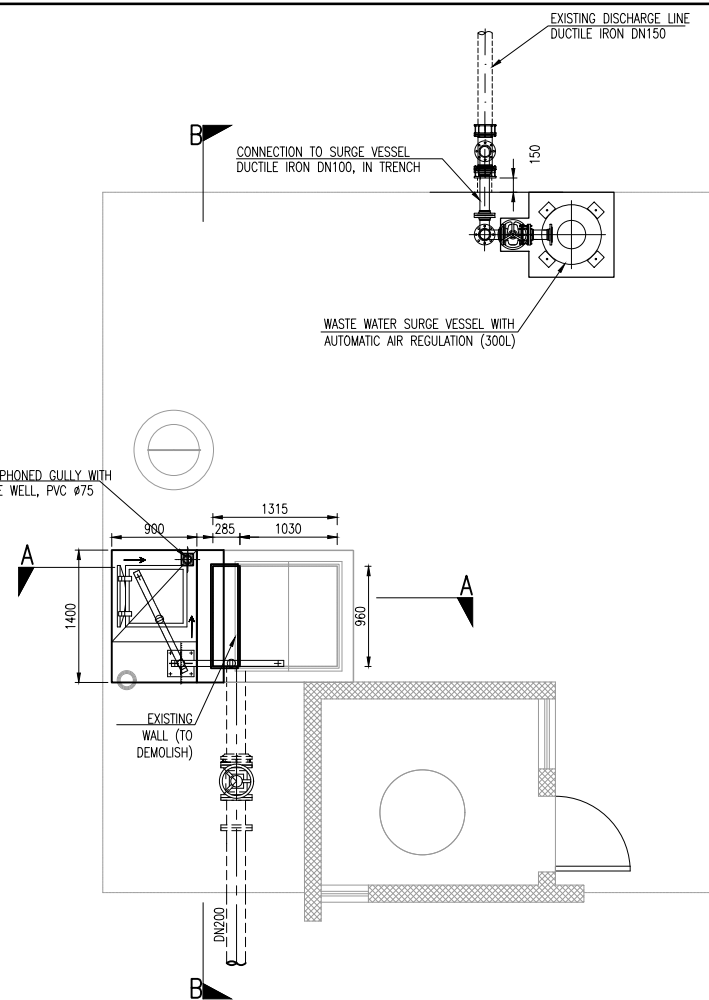
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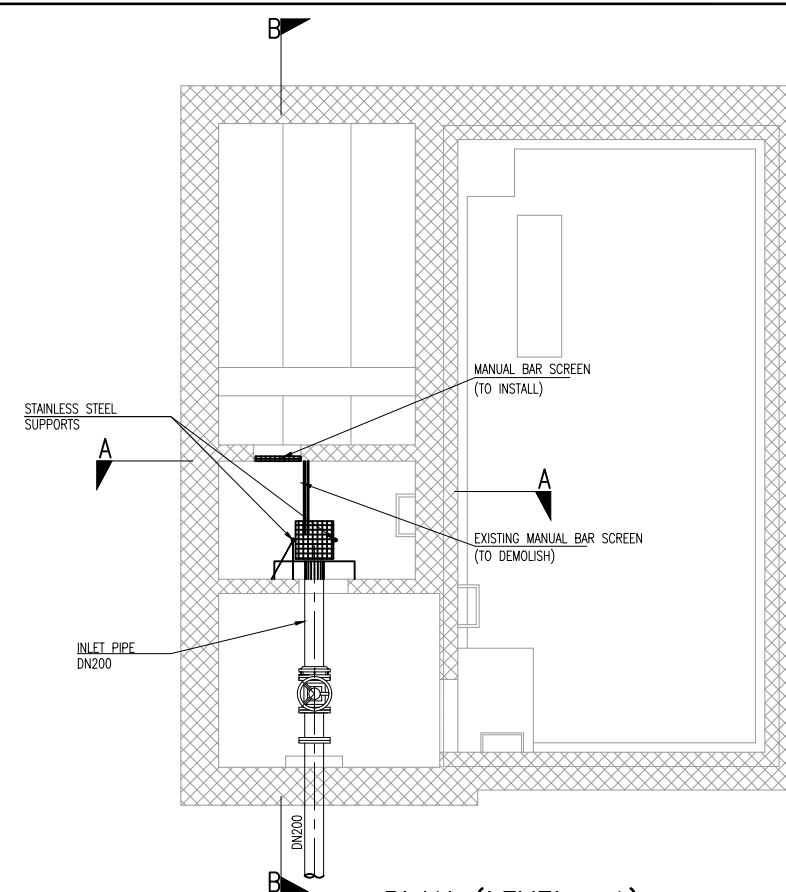
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CHECKED BY: MJB	APPROVED BY: JF
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DRAWING No. EEAS/BSMP/MOZ/PS.CW.09	Revision A B C D E F G H I J K L



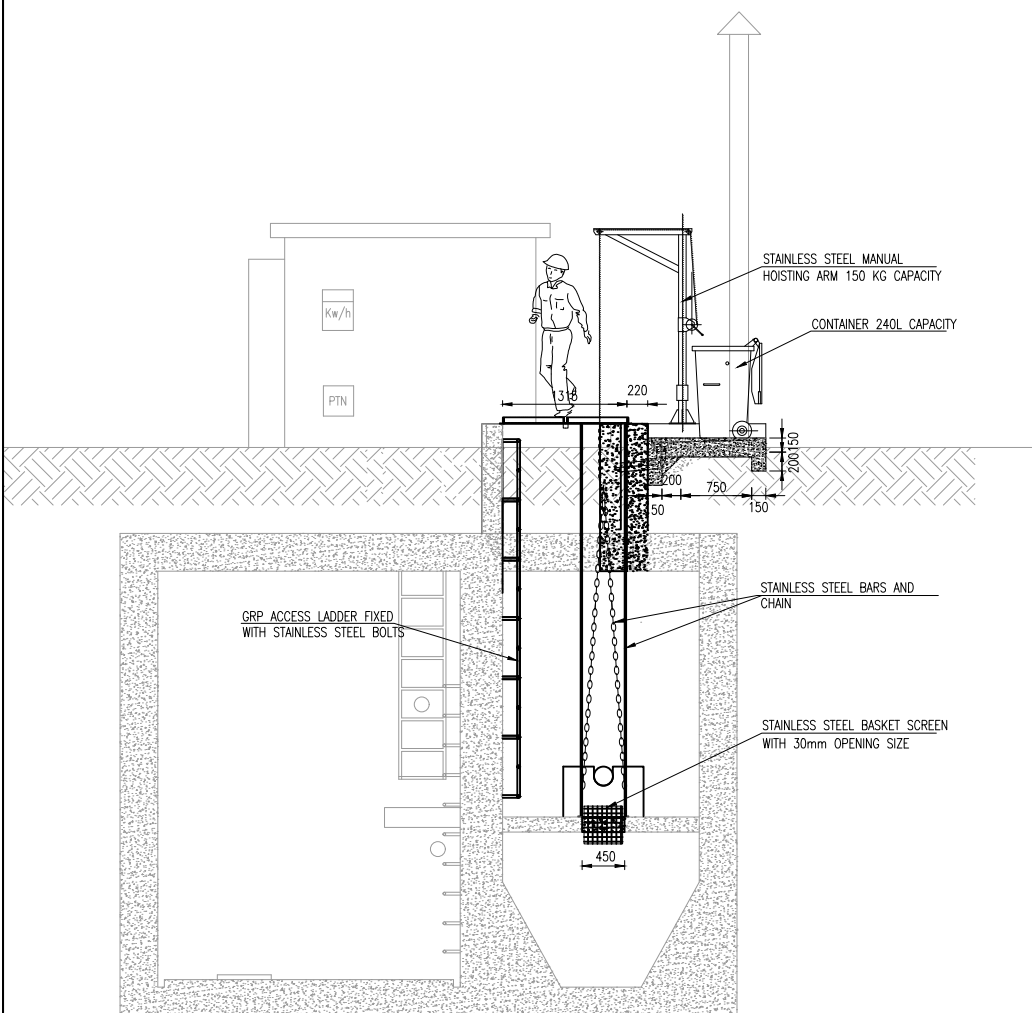
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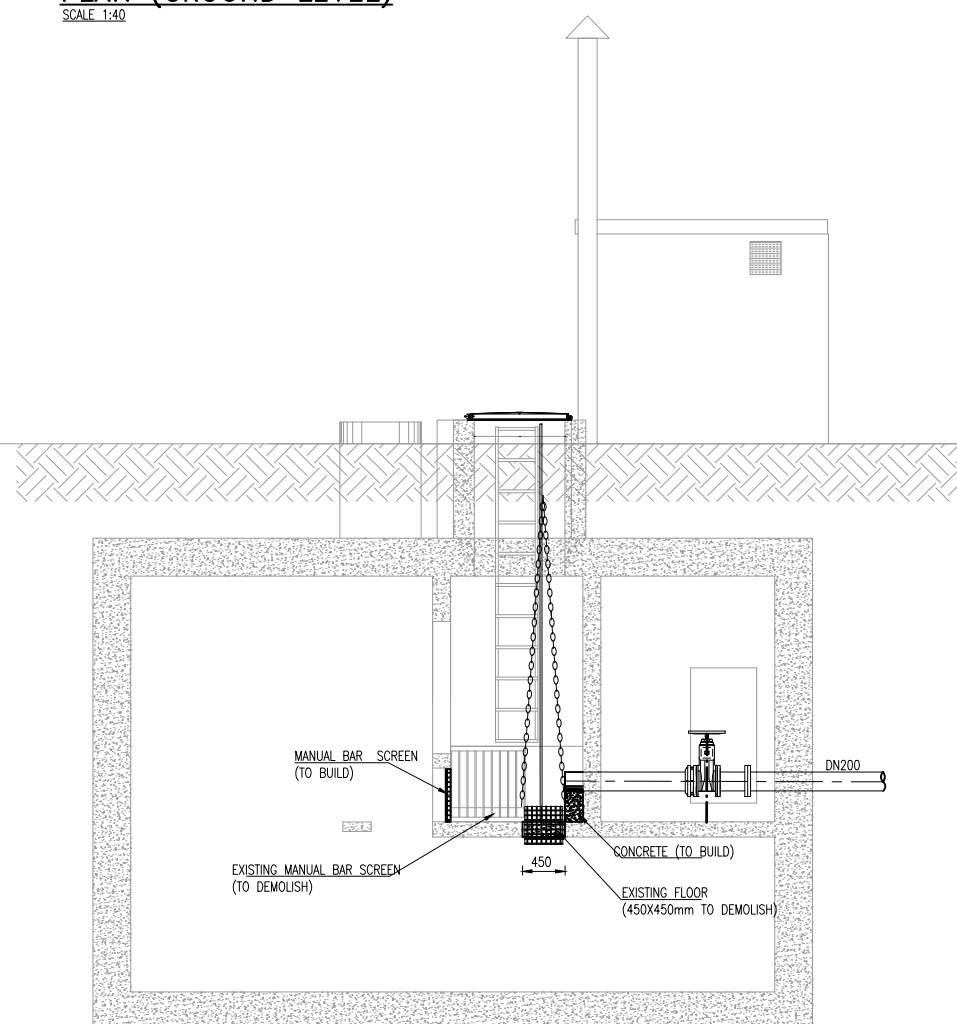
PLAN (GROUND LEVEL)
SCALE 1:40



PLAN (LEVEL -1)
SCALE 1:40



SECTION A-A
SCALE 1:40



SECTION B-B
SCALE 1:40

NOTES:

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REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR.

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÓNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:



SEURECA CONSULTING ENGINEERS
30 RUE MADELINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

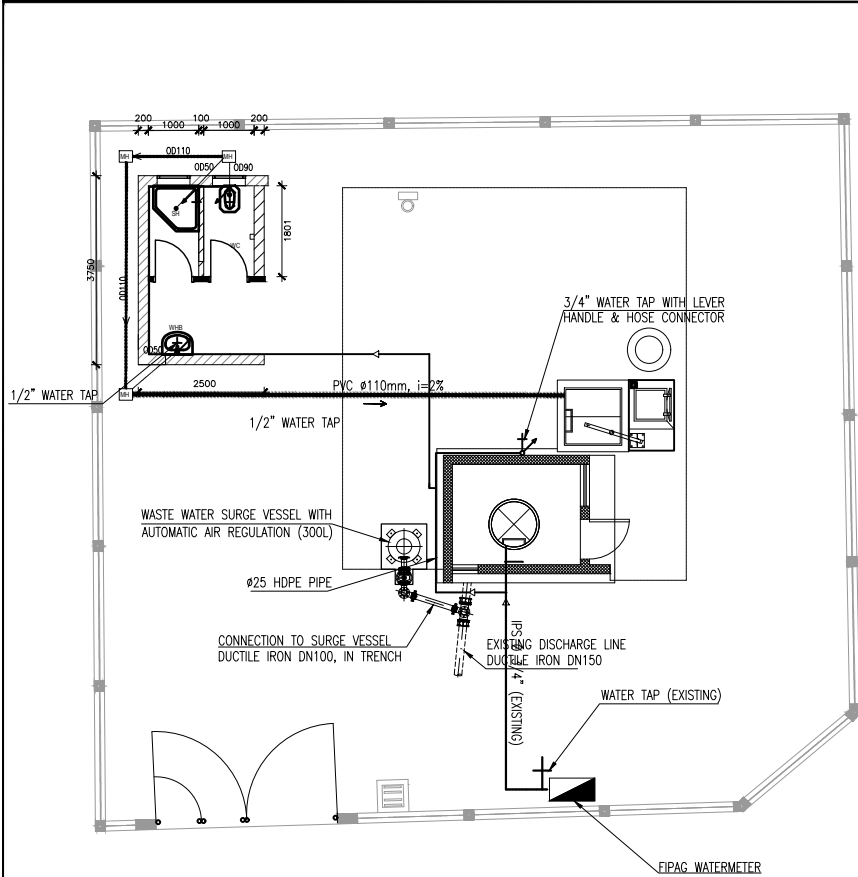
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

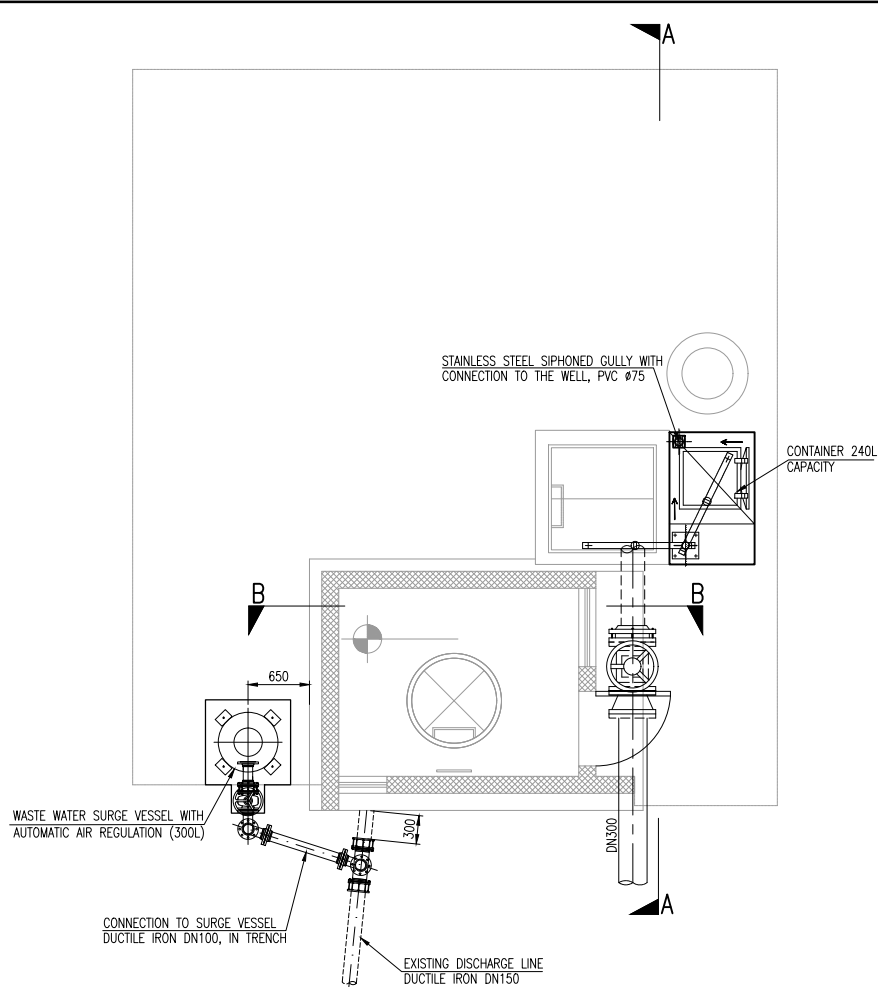
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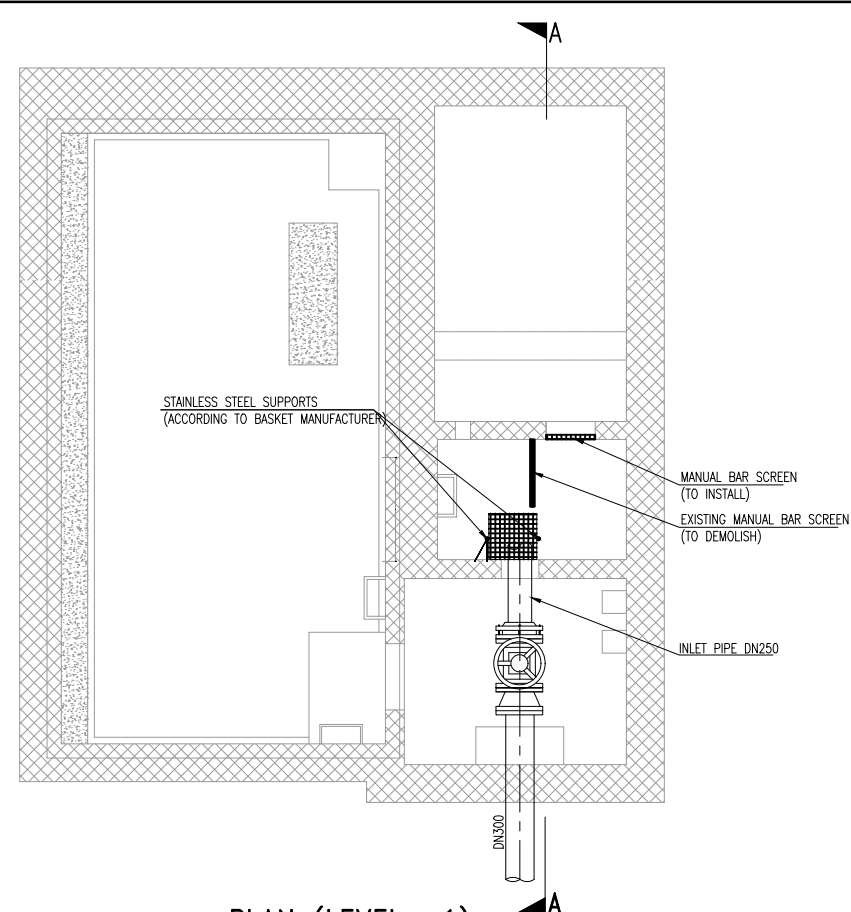
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CHECKED BY: MJB	APPROVED BY: JF
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JOB No. MZSP00512E	
DRAWING No.	Revision
EEAS/BSMP/MOZ/PS.CW.10	A B C D E F G H I J K L



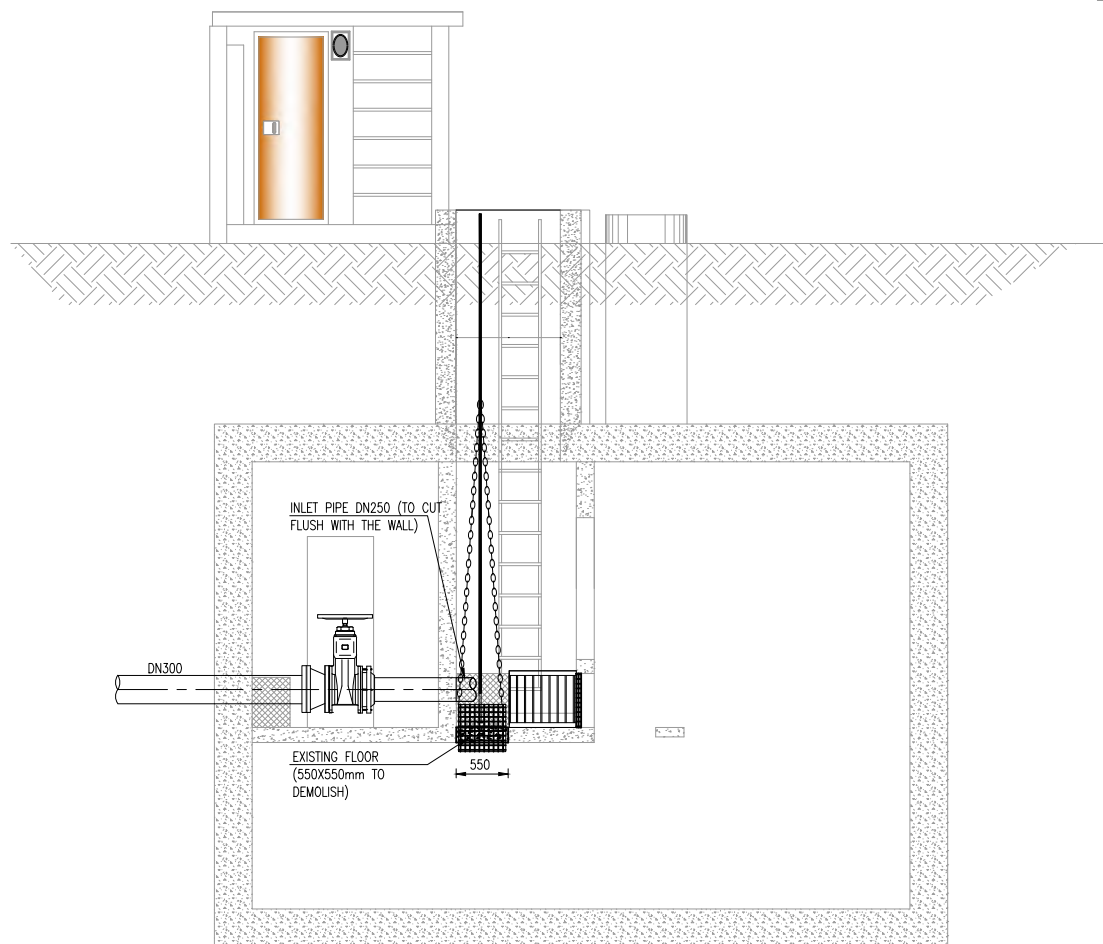
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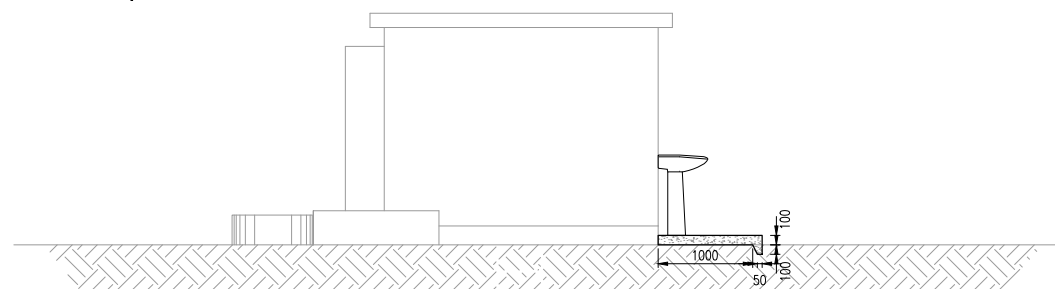
PLAN (GROUND LEVEL)
SCALE 1:40



PLAN (LEVEL -1)
SCALE 1:40



SECTION A-A
SCALE 1:40



SECTION B-B
SCALE 1:40

NOTES:
STRUCTURAL ENGINEER TO DEFINE:
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REVISIONS				
REV	DATE	DESCRIPTION	DES.	CHE. APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
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MAPUTO



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CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:



SEURECA CONSULTING ENGINEERS
30 RUE MADELINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

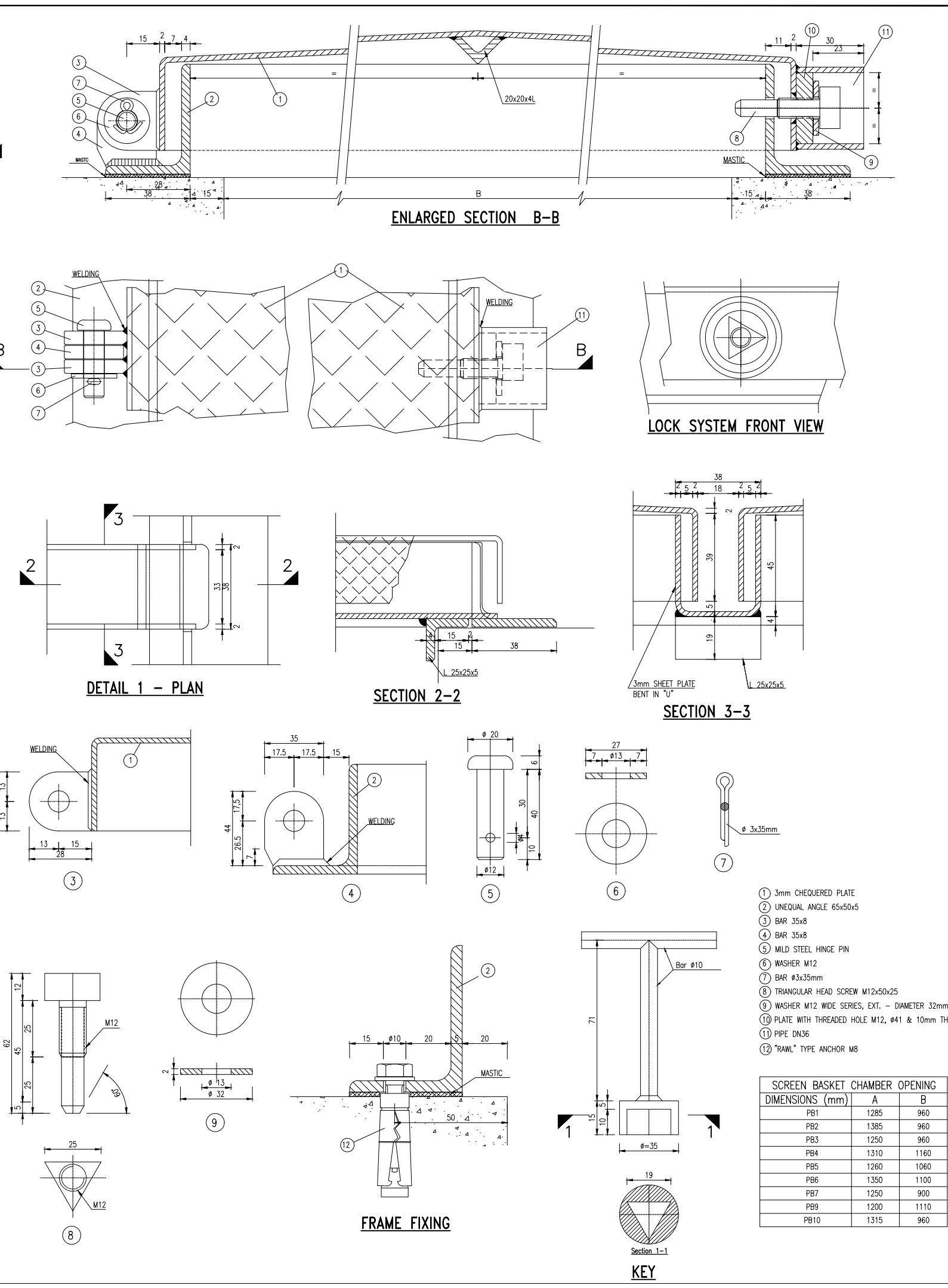
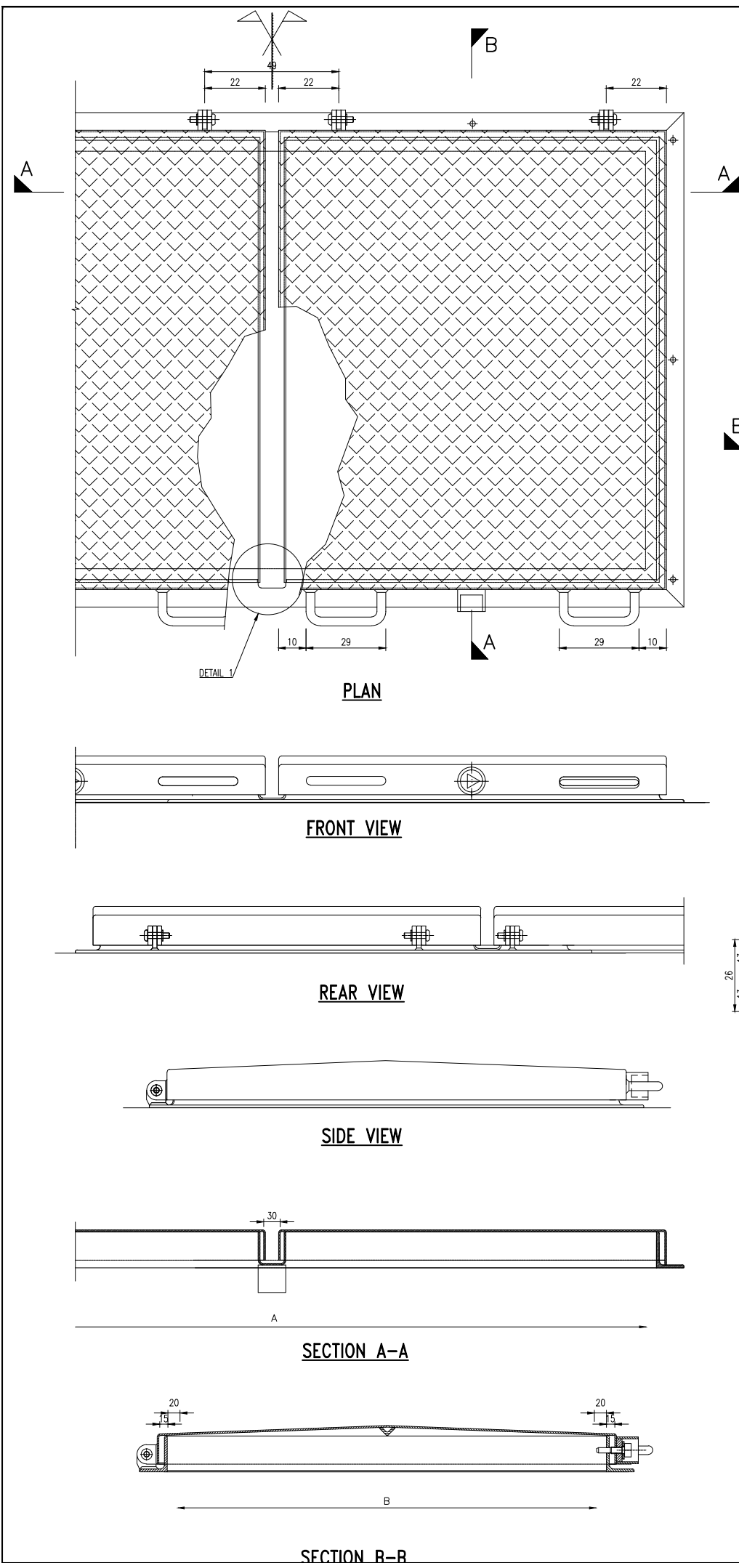
PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

PB11 CIVIL WORKS REHABILITATION

DESIGN BY:	PM	DRAWN BY:	AW
CHECKED BY:	MJB	APPROVED BY:	JF
SCALE:	AS SHOWN	DATE:	MAR 2022
JOB No. MZSP00512E			
DRAWING No.		Revision	
EEAS/BSMP/MOZ/PS.CW.11		A B C D E F G H I J K L	




- 1 3mm CHEQUERED PLATE
- 2 UNEQUAL ANGLE 65x50x5
- 3 BAR 35x8
- 4 BAR 35x8
- 5 MILD STEEL HINGE PIN
- 6 WASHER M12
- 7 BAR Ø3x35mm
- 8 TRIANGULAR HEAD SCREW M12x50x25
- 9 WASHER M12 WIDE SERIES, EXT. - DIAMETER 32mm
- 10 PLATE WITH THREADED HOLE M12, Ø41 & 10mm THICK
- 11 PIPE DN36
- 12 "RAWL" TYPE ANCHOR M8

SCREEN BASKET CHAMBER OPENING		
DIMENSIONS (mm)	A	B
PB1	1285	960
PB2	1385	960
PB3	1250	960
PB4	1310	1160
PB5	1260	1060
PB6	1350	1100
PB7	1250	900
PB9	1200	1110
PB10	1315	960

NOTES:
ALL METALLIC ELEMENTS WILL BE IN AISI 316 STAINLESS STEEL


REVISIONS				
REV.	DATE	DESCRIPTION	DES.	CHE. APPR.

CLIENT:




THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÓNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA

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CONSULTANTS:

 **PLANET S.A.**
APOLLO TOWER 64 | LOUISE RIENCOURT
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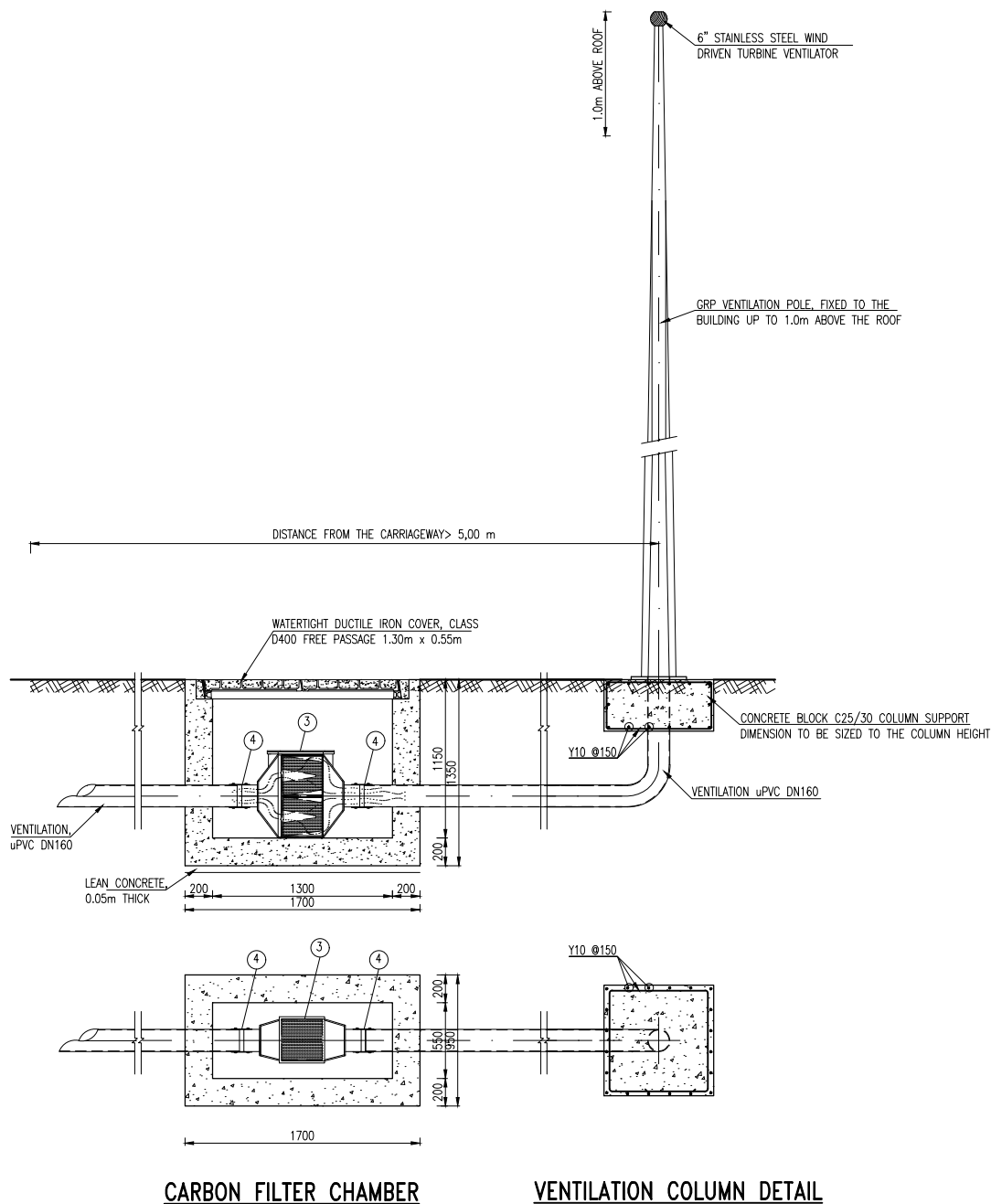
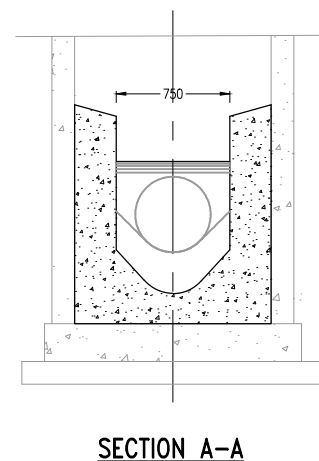
PROJECT:

FWC BENEFICIARIES 2018-L0T 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

METALLIC COVER DETAILS

DESIGN BY: PM	DRAWN BY: AW
CHECKED BY: MJB	APPROVED BY: JF
SCALE: N.T.S (A1)	DATE: MAR 2022
JOB No. MZSP00512E	
DRAWING No.	Revision
EEAS/BSMP/MOZ/PS.CW.12	A B C D E F G H I J K L



1. "EPOXI" COATING ON INTERIOR SURFACES
2. CONCRETE C25/30 ; STEEL A500NR
3. DEODORIZATION UNIT TYPE "DEPUR VENT BIO 2XPP12"
(Klinger Portugal)
4. INTERCONNECTING SLEEVE WITH STAINLESS STEEL CLAMPS

REVISIONS					
REV	DATE	DESCRIPTION	DES.	CHE.	APPR.



 **PLANET S.A.**
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

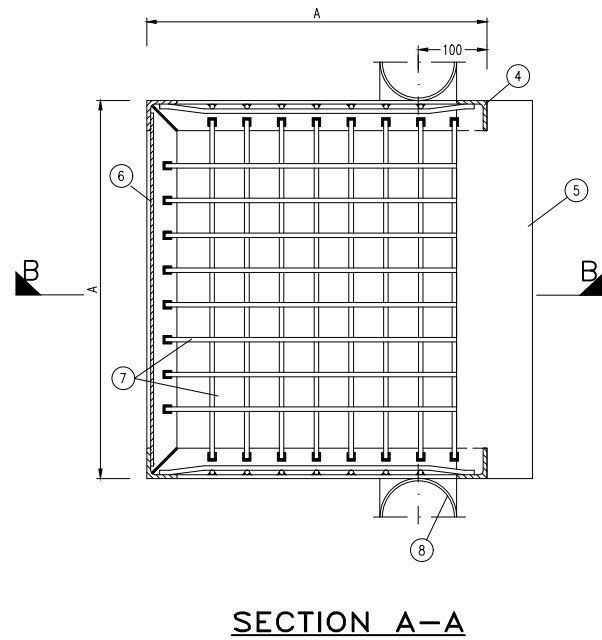
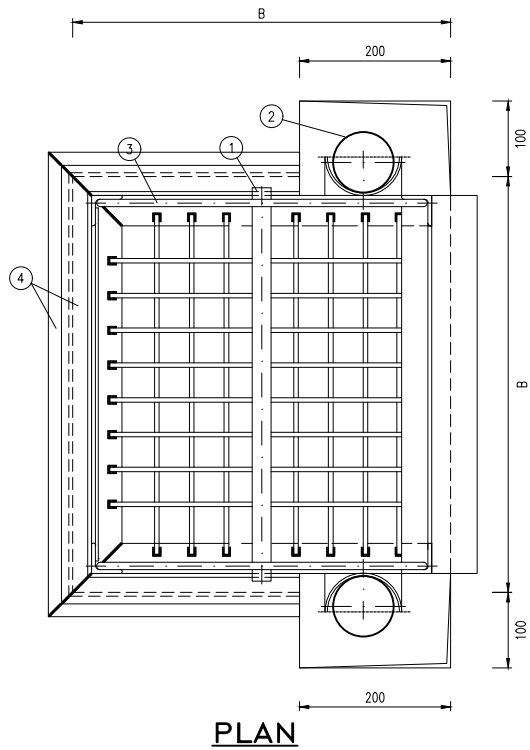
IN ASSOCIATION WITH:

 **SEURECA VEOLIA** **SEURECA CONSULTING ENGINEER**
30 RUE MADELEINE VINNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

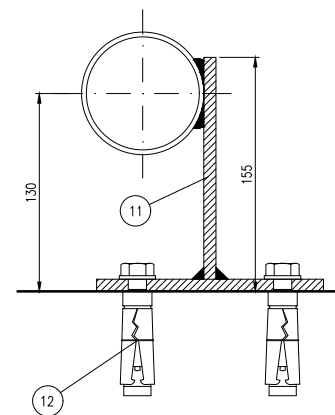
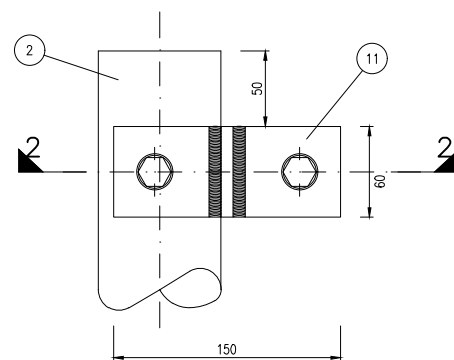
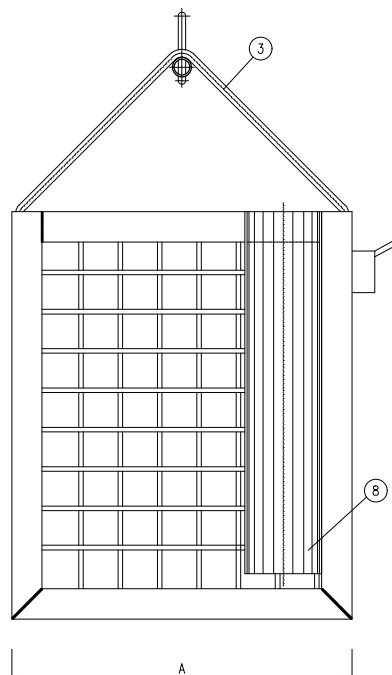
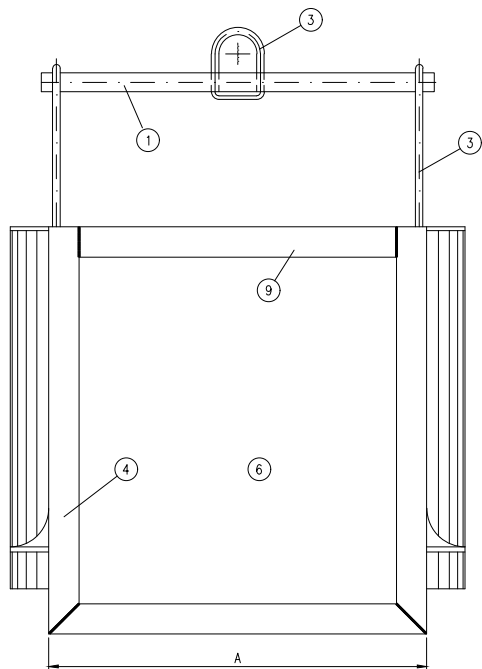
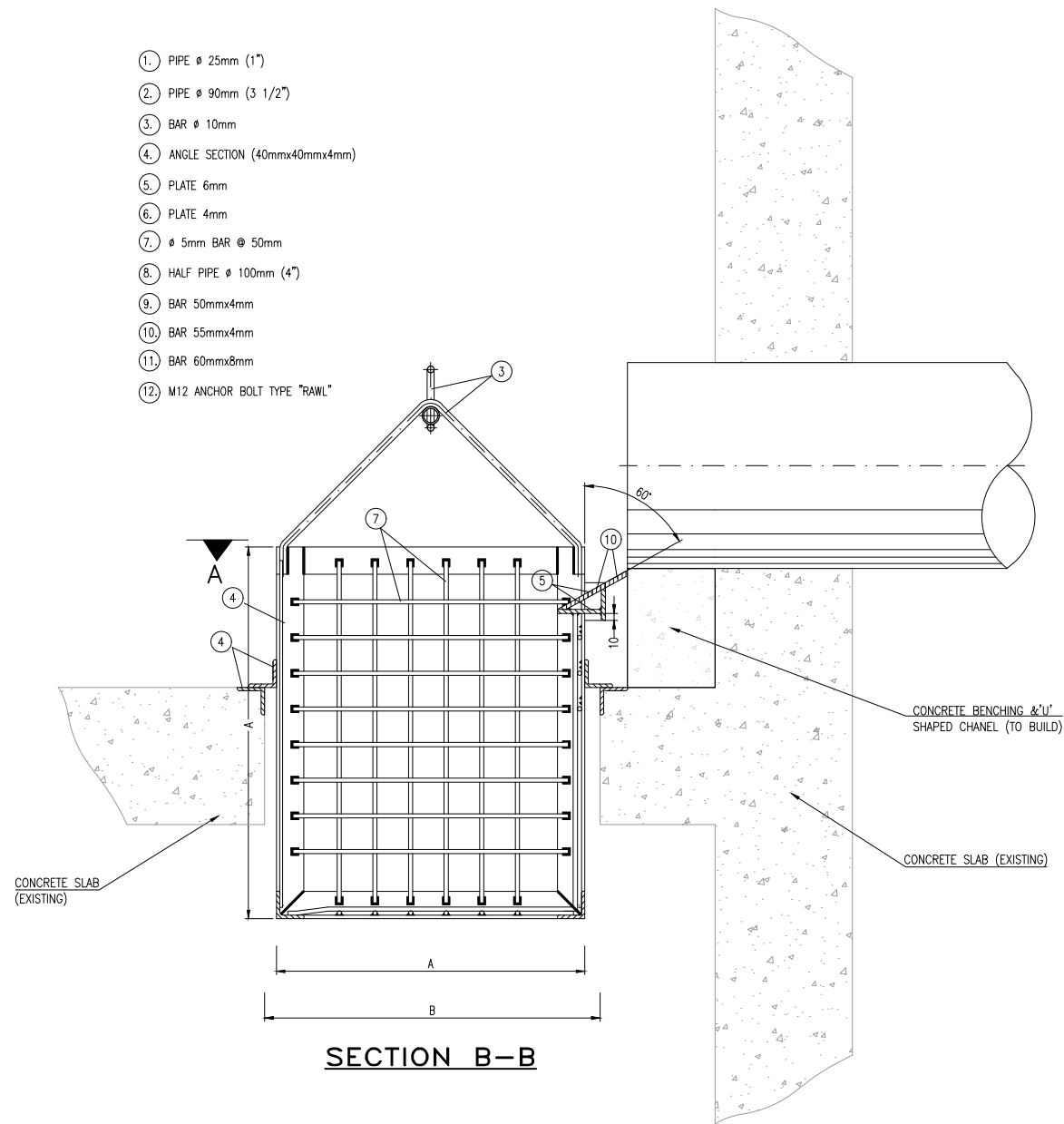
FWC BENEFICIARIES 2018—LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

EXISTING TRANSITION CHAMBER
WITH CARBON FILTER &
VENTILATION COLUMN DETAIL

DESIGN BY: PM	DRAWN BY: AW												
CHECKED BY: MJB	APPROVED BY: JF												
SCALE: 1:25 (A1)	DATE: MAR 2022												
JOB No. MZSP00512E													
DRAWING No.													
Revision													
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A	B	C	D	E	F								
G	H	I	J	K	L								
EEAS/BSMP/MOZ/PS.CW.14													



1. PIPE \varnothing 25mm (1")
2. PIPE \varnothing 90mm (3 1/2")
3. BAR \varnothing 10mm
4. ANGLE SECTION (40mmx40mmx4mm)
5. PLATE 6mm
6. PLATE 4mm
7. \varnothing 5mm BAR @ 50mm
8. HALF PIPE \varnothing 100mm (4")
9. BAR 50mmx4mm
10. BAR 55mmx4mm
11. BAR 60mmx8mm
12. M12 ANCHOR BOLT TYPE "RAWL"



PUMPING STATION	INLET PIPE DN (mm)	BASKET SIZES(AxB) (mm)
PB1	250	500x550
PB2	250	500x550
PB3	200	400x450
PB4	250	500x550
PB5	250	500x550
PB6	250	500x550
PB7	350	700x750
PB8	200	400x450
PB9	200	400x450
PB10	200	400x450
PB11	250	500x550

NOTES:
MATERIAL:STAINLESS STEEL AISI 316L

REVISIONS

CLIENT:

THE EUROPEAN UNION, REPRESENTED BY THE
EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM
BENEFICIARY: AIAS, SASB

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS
DE ÁGUA E SANEAMENTO
ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS
E SANEAMENTO (AIAS)
AV. EDUARDO MÓNDLANE, 1352.
MAPUTO

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA
(SASB), AVENIDA ARMANDO TIVANE
BEIRA

CONSULTANTS:

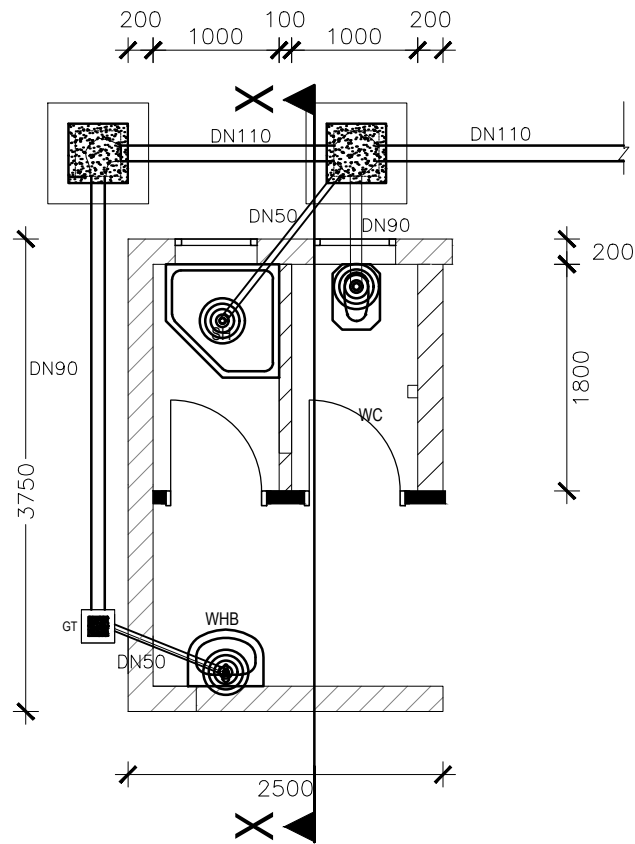
PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:

SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

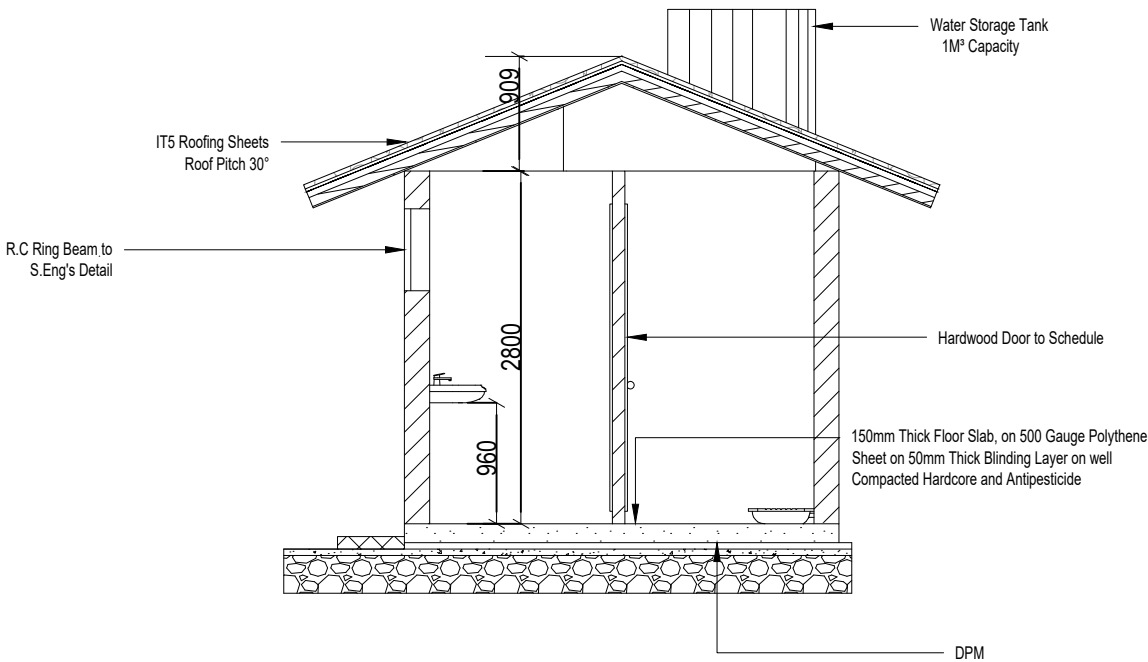
PROJECT:
FWC BENEFICIARIES 2018--LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

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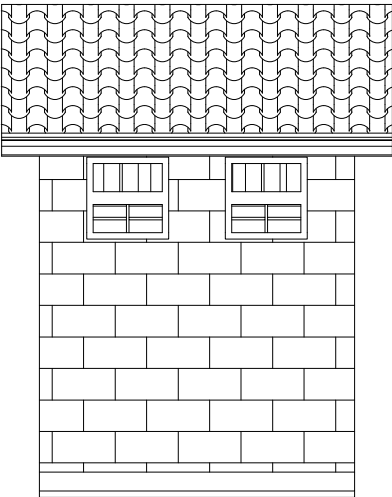
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JOB No. MZSP00512E
DRAWING No. EEAS/BSMP/MOZ/PS.CW.13
Revision
A B C D E F
G H I J K L



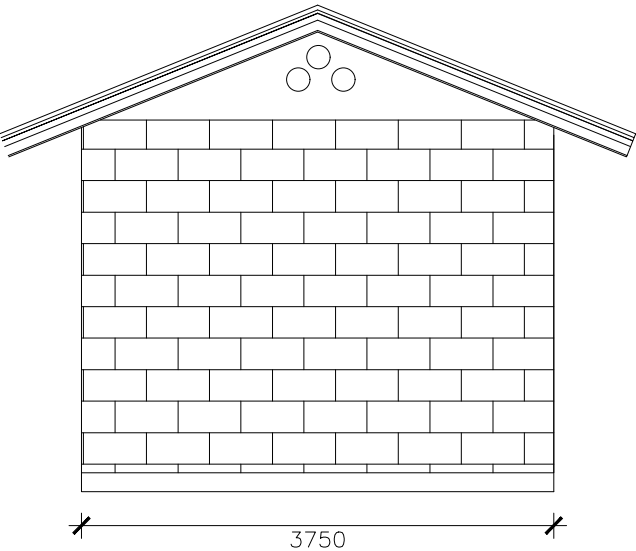
TYPICAL TOILET/BATHROOM PLAN
SCALE 1:30



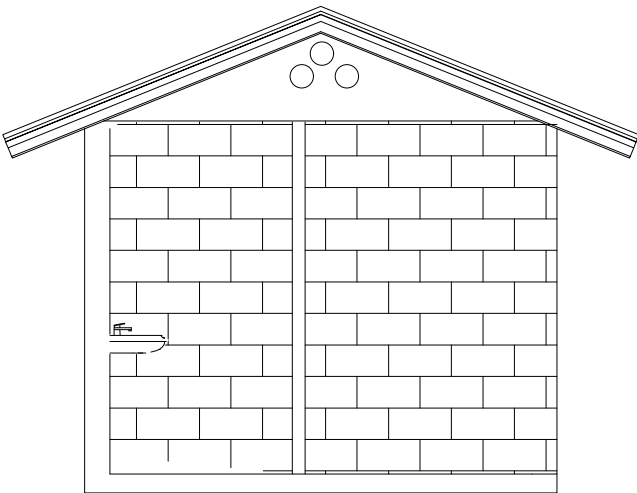
SECTION X--X
SCALE 1:30



BACK ELEVATION
SCALE 1:30



WEST ELEVATION
SCALE 1:30



EAST ELEVATION
SCALE 1:30

- NOTES:
- ALL CONCRETE TO BE SULPHATE RESISTANT AND OF CLASS 'C25'.
 - ALL PRECAST CONCRETE UNITS TO BS 556.
 - COVER FABRICATED FROM 6mm M.S. PLATE.
 - CONCRETE FILLING TO BE VIBRATED AND CURED IN ACCORDANCE WITH THE APPROPRIATE SPECIFICATION CLAUSES.
 - TOLERANCE ON OVERALL SIZE 3mm.
 - ALL HAUNCHES ARE CLASS 15/40. CONCRETE AS INDICATED ON THE SPECIFICATION OVER EXCAVATION TO BE MADE GOOD IN CONCRETE CLASS 15/40.

REVISIONS				
REV	DATE	DESCRIPTION	DES.	CHE. APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÓNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:

 PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

 SEURECA CONSULTING ENGINEERS
30 RUE MADELINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

PROJECT:

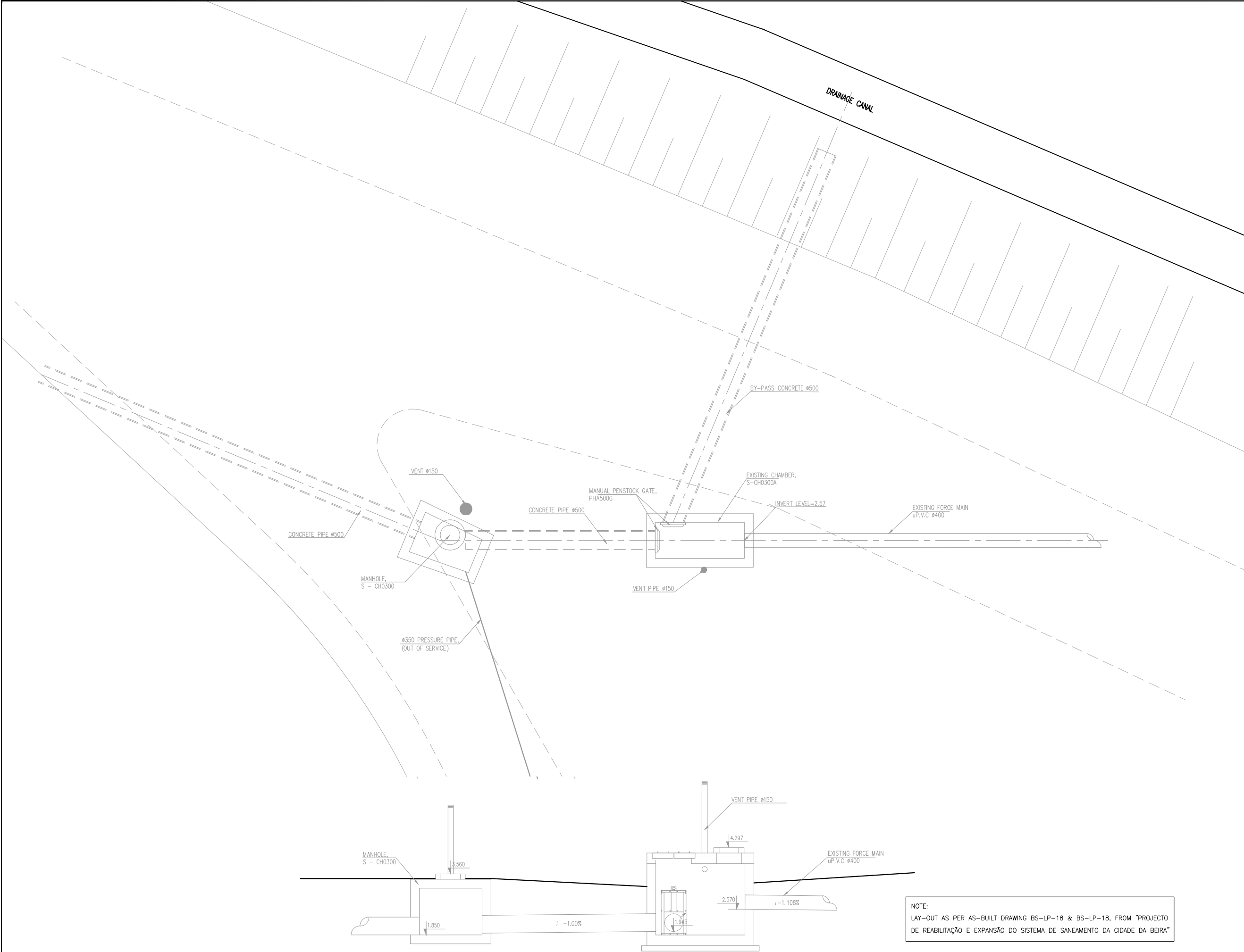
FWC BENEFICIARIES 2018--LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE

SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

TYPICAL TOILET /BATHROOM

DESIGN BY:	PM	DRAWN BY:	AW
CHECKED BY:	MJB	APPROVED BY:	JF
SCALE:	1:30 (A1)	DATE:	MAR 2022
JOB No.	MZSP00512E	Revision	
DRAWING No.	EEAS/BSMP/MOZ/PS.CW.15	A	B
		C	D
		E	F
		G	H
		I	J
		K	L



EXISTING LAYOUT

NOTE:
LAY-OUT AS PER AS-BUILT DRAWING BS-LP-18 & BS-LP-18, FROM "PROJECTO DE REABILITAÇÃO E EXPANSÃO DO SISTEMA DE SANEAMENTO DA CIDADE DA BEIRA"

- NOTES:
- MATERIALS
1. BLINDING CONCRETE :C12/15
 2. CONCRETE : C25/30
 3. REINFORCING STEEL : A500 NR (EN 10080 / EN 1992 1-1)
- EQUIPMENT NOTES:
4. THE CIVIL WORKS DRAWINGS MAY NOT FIT, IN DETAIL, TO ALL BRANDS OF EQUIPMENT TO BE INSTALLED
 5. ACCESS OPENINGS, SUPPORTS AND EVERYTHING REGARDING THE EQUIPMENT ASSEMBLY, CAN ONLY BE DONE AFTER APPROVAL OF DRAWINGS BY CONTRACTORS OF THE MECHANICAL AND ELECTRICAL EQUIPMENT, OR FROM DRAWINGS PROVIDED BY THEM.

REVISIONS				
REV	DATE	DESCRIPTION	DES.	CHE. APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO


ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÓNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA


SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:



SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

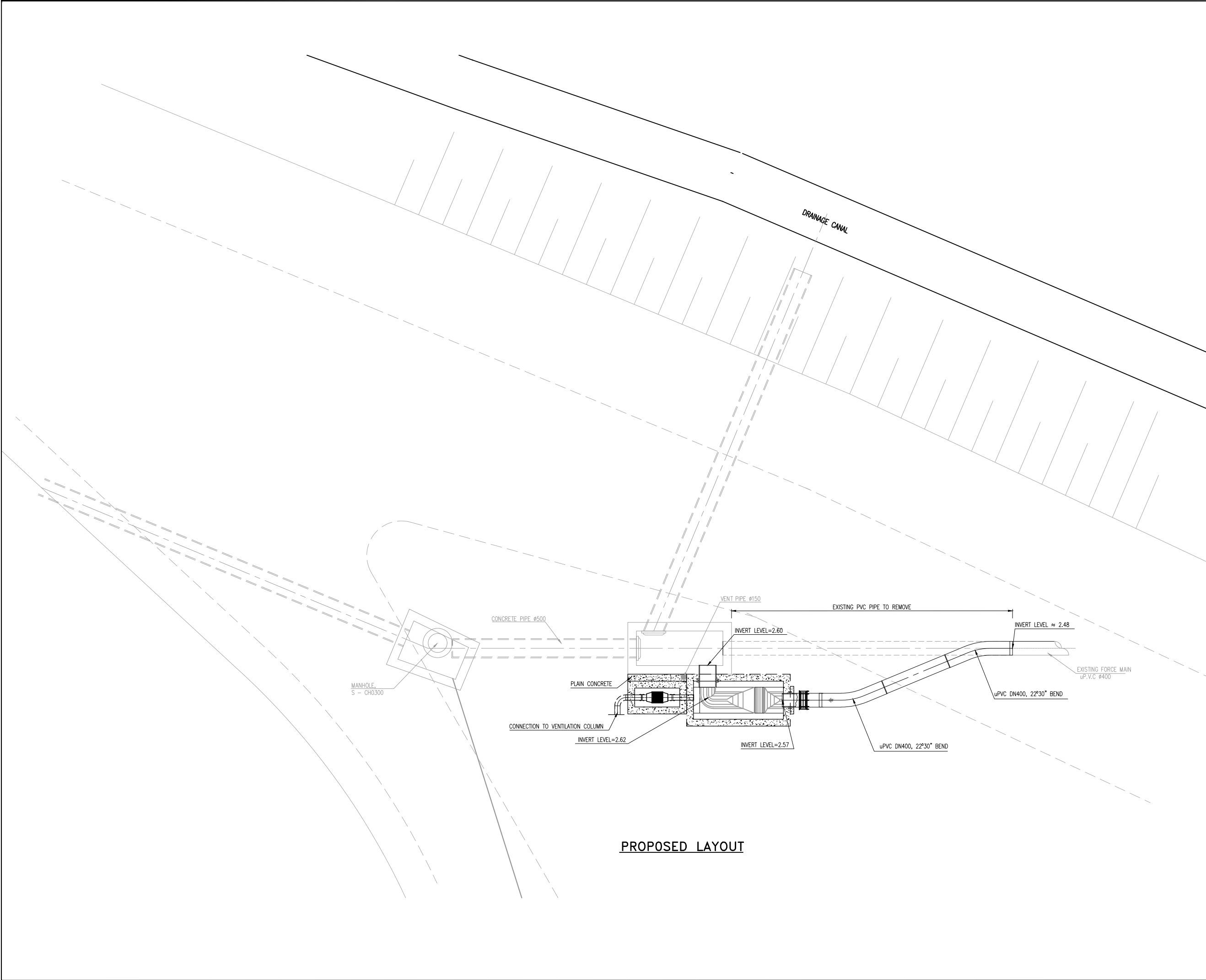
PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI

BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE

SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:	
PB1–PB6 TRANSITION CHAMBER DETAILS SHEET 1 OF 3	
DESIGN BY: PM	DRAWN BY: AW
CHECKED BY: MJB	APPROVED BY: JF
SCALE: 1:50 (A1)	DATE: MAY 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/PS.CW.16	
Revision	
A	B
C	D
E	F
G	H
I	J
K	L



PROPOSED LAYOUT

- NOTES:**
- MATERIALS**
1. BLINDING CONCRETE :C12/15
 2. CONCRETE : C25/30
 3. REINFORCING STEEL : A500 NR (EN 10080 / EN 1992 1-1)
- EQUIPMENT NOTES:**
4. THE CIVIL WORKS DRAWINGS MAY NOT FIT, IN DETAIL, TO ALL BRANDS OF EQUIPMENT TO BE INSTALLED
 5. ACCESS OPENINGS, SUPPORTS AND EVERYTHING REGARDING THE EQUIPMENT ASSEMBLY, CAN ONLY BE DONE AFTER APPROVAL OF DRAWINGS BY CONTRACTORS OF THE MECHANICAL AND ELECTRICAL EQUIPMENT, OR FROM DRAWINGS PROVIDED BY THEM.

REVISIONS				
REV	DATE	DESCRIPTION	DES.	CHE. APPR

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CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:



SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
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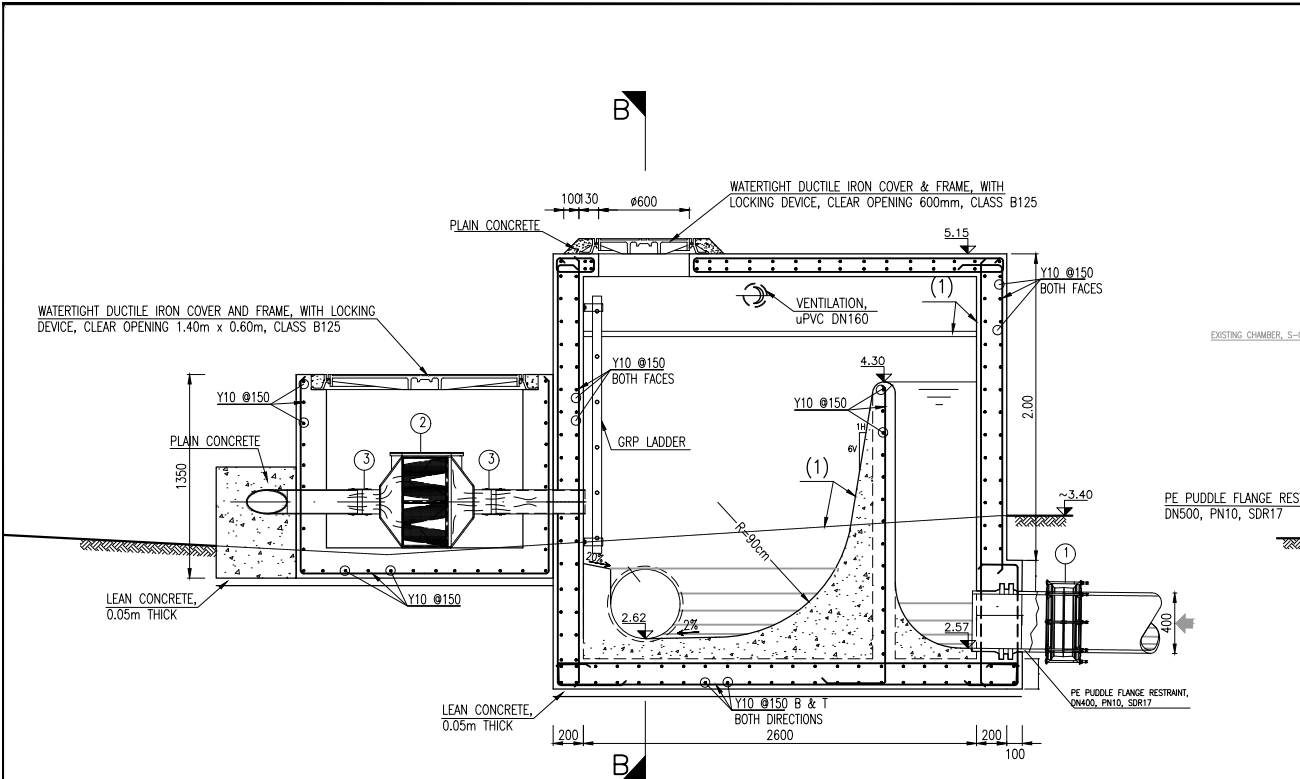
PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI

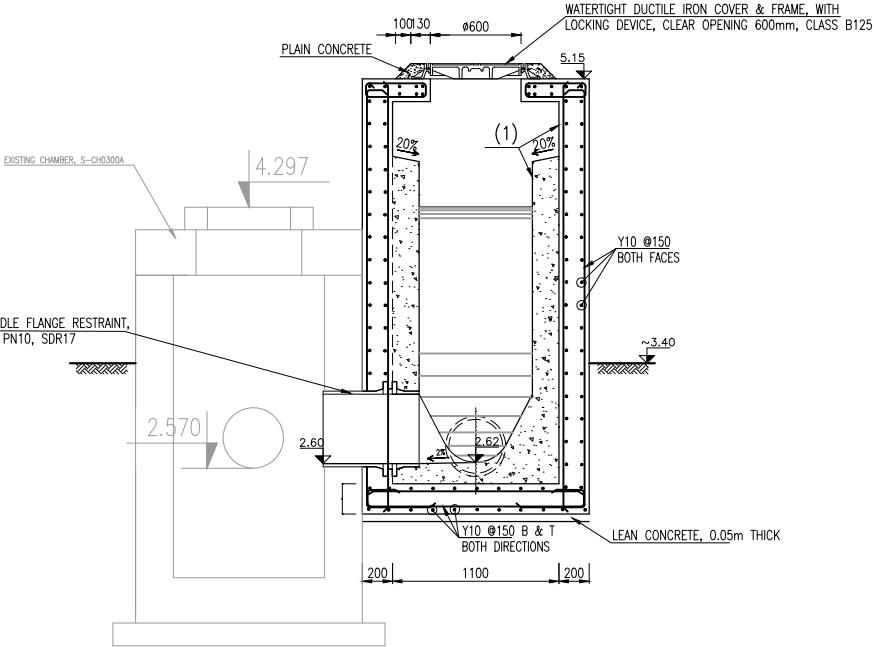
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE

SPECIFIC CONTRACT N° 300009970

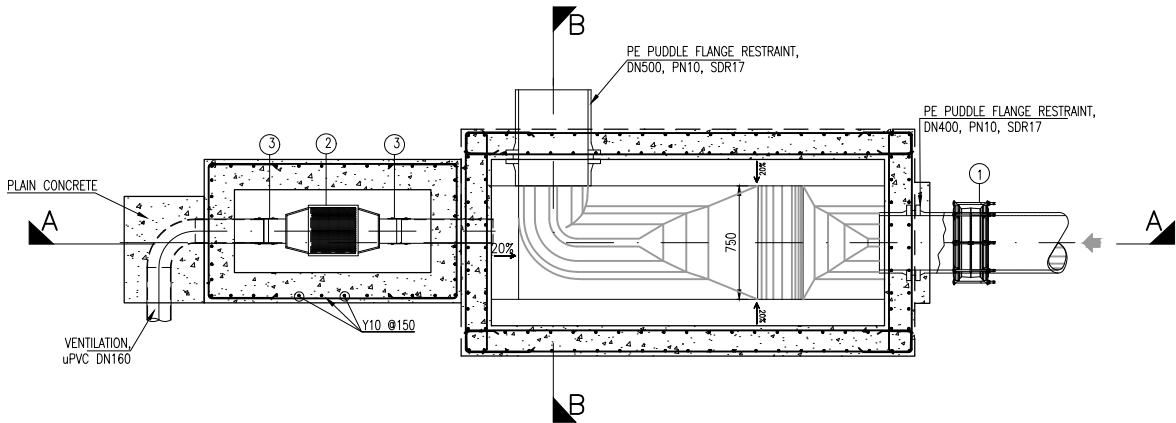
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CHECKED BY:	MJB	APPROVED BY:	JF	
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JOB No. MZSP00512E				
DRAWING No.				Revision
EEAS/BSMP/MOZ/PS.CW.16				A B C D E F G H I J K L



SECTION A-A

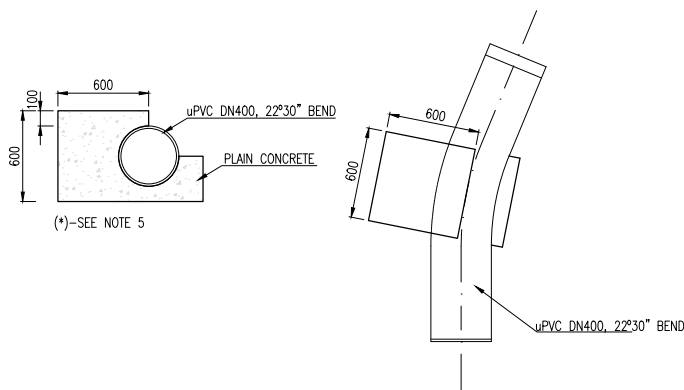


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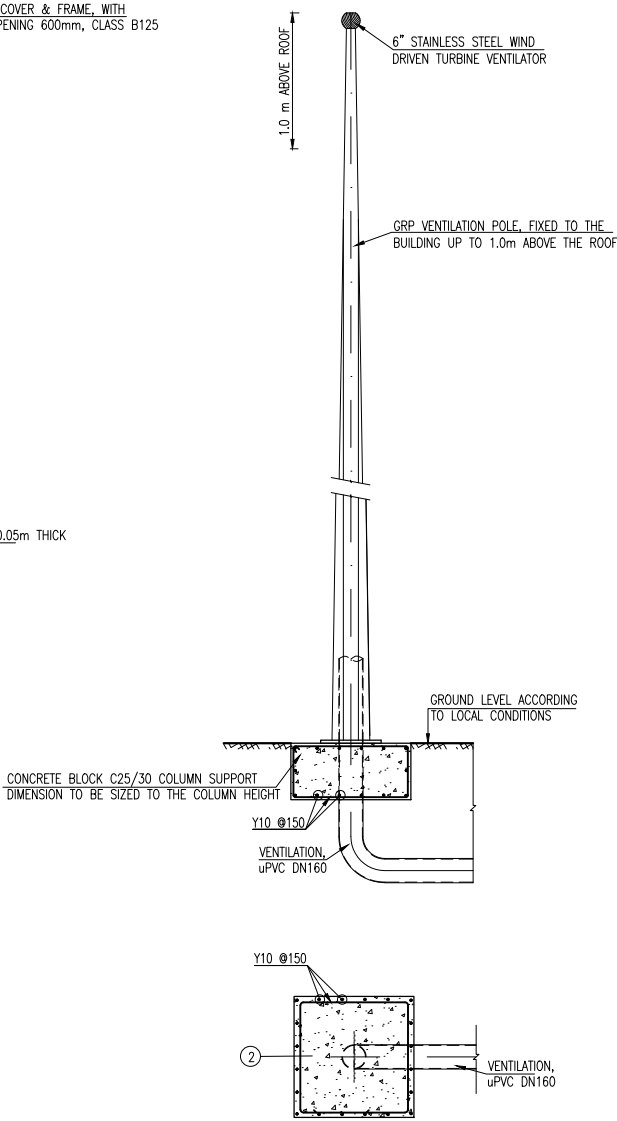


PLAN

TRANSITION CHAMBER



22°30' BEND THRUST BLOCK



VENTILATION COLUMN DETAIL

SYMBOLOLOGY:

- DUCTILE IRON STRAIGHT COUPLING DN400, PN10, FOR PVC PIPES
- DEODORIZATION UNIT TYPE "DEPUR VENT BIO 2XPP12" (Klinger Portugal)
- INTERCONNECTING SLEEVE WITH STAINLESS STEEL CLAMPS

NOTES:

- EPOXI COATING ON INTERIOR SURFACES
- OUTSIDE OF CHAMBER IN CONTACT WITH GROUND TO BE COATED WITH BITUMEN 3MM DRY FILM THICKNESS
- THE VENTILATION POSITION MUST BE DETERMINED ACCORDING TO LOCAL CONDITIONS
- GRP LADDER, WITH STAINLESS STEEL WALL FIXING
- DIMENSIONS AS PER AS-BUILT DRAWING BS-LP-17, FROM "PROJECTO DE REABILITAÇÃO E EXPANSÃO DO SISTEMA DE SANEAMENTO DA CIDADE DA BEIRA"

NOTES:

MATERIALS

- BLINDING CONCRETE :C12/15
- CONCRETE : C25/30
- REINFORCING STEEL : A500 NR (EN 10080 / EN 1992 1-1)

EQUIPMENT NOTES:

- THE CIVIL WORKS DRAWINGS MAY NOT FIT, IN DETAIL, TO ALL BRANDS OF EQUIPMENT TO BE INSTALLED
- ACCESS OPENINGS, SUPPORTS AND EVERYTHING REGARDING THE EQUIPMENT ASSEMBLY, CAN ONLY BE DONE AFTER APPROVAL OF DRAWINGS BY CONTRACTORS OF THE MECHANICAL AND ELECTRICAL EQUIPMENT, OR FROM DRAWINGS PROVIDED BY THEM.

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM
BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÓNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

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30 RUE MADELINE VIONNET
93300 AUBERVILLIERS - FRANCE
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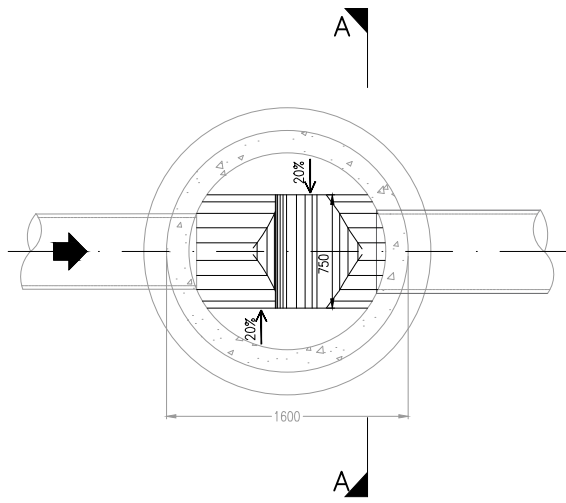
PROJECT:

FWC BENEFICIARIES 2018-L0T 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

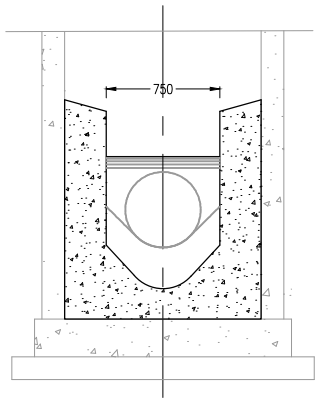
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PB1-PB6 TRANSITION CHAMBER DETAILS
SHEET 3 OF 3

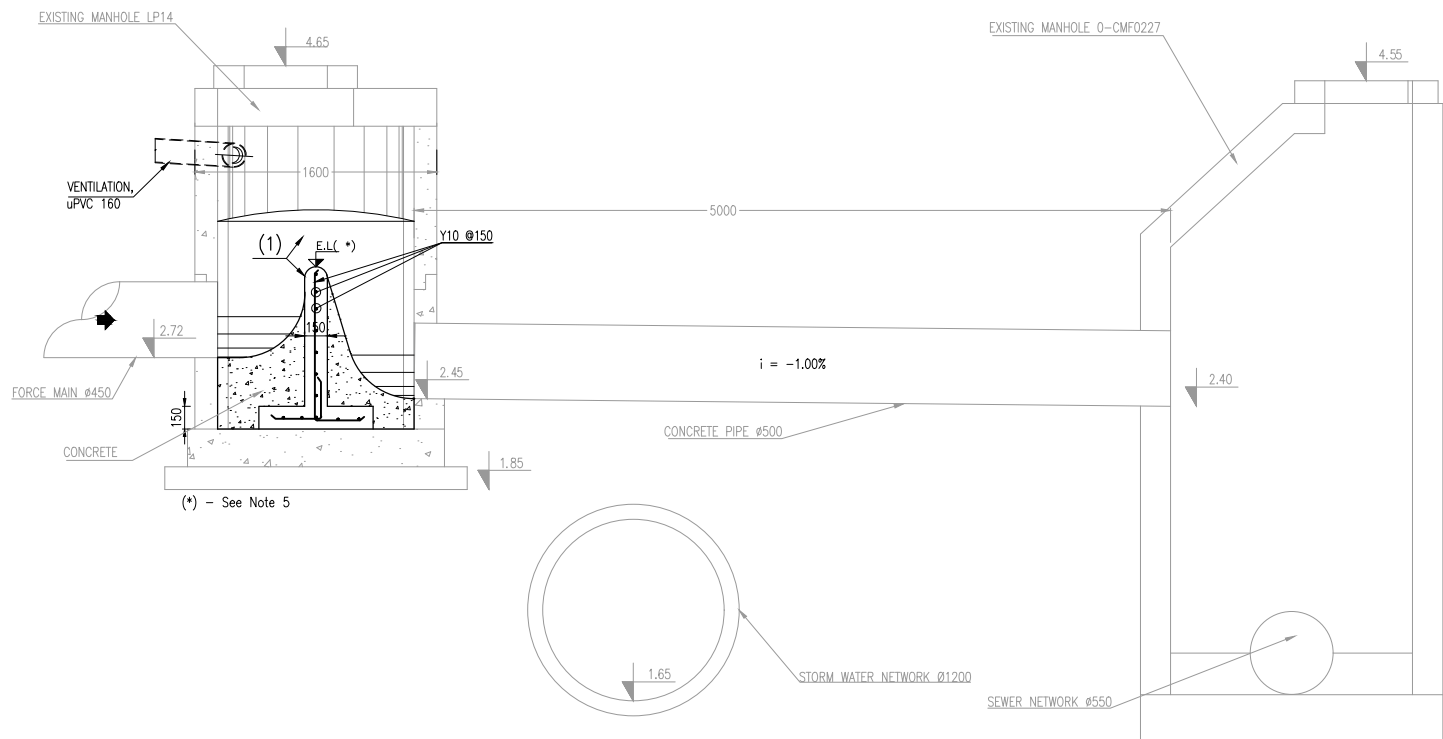
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SCALE: 1:25 (A1)	DATE: MAY 2022
JOB No. MZSP00512E	
DRAWING No.	Revision
EEAS/BSMP/MOZ/PS.CW.16	A B C D E F G H I J K L



PLAN

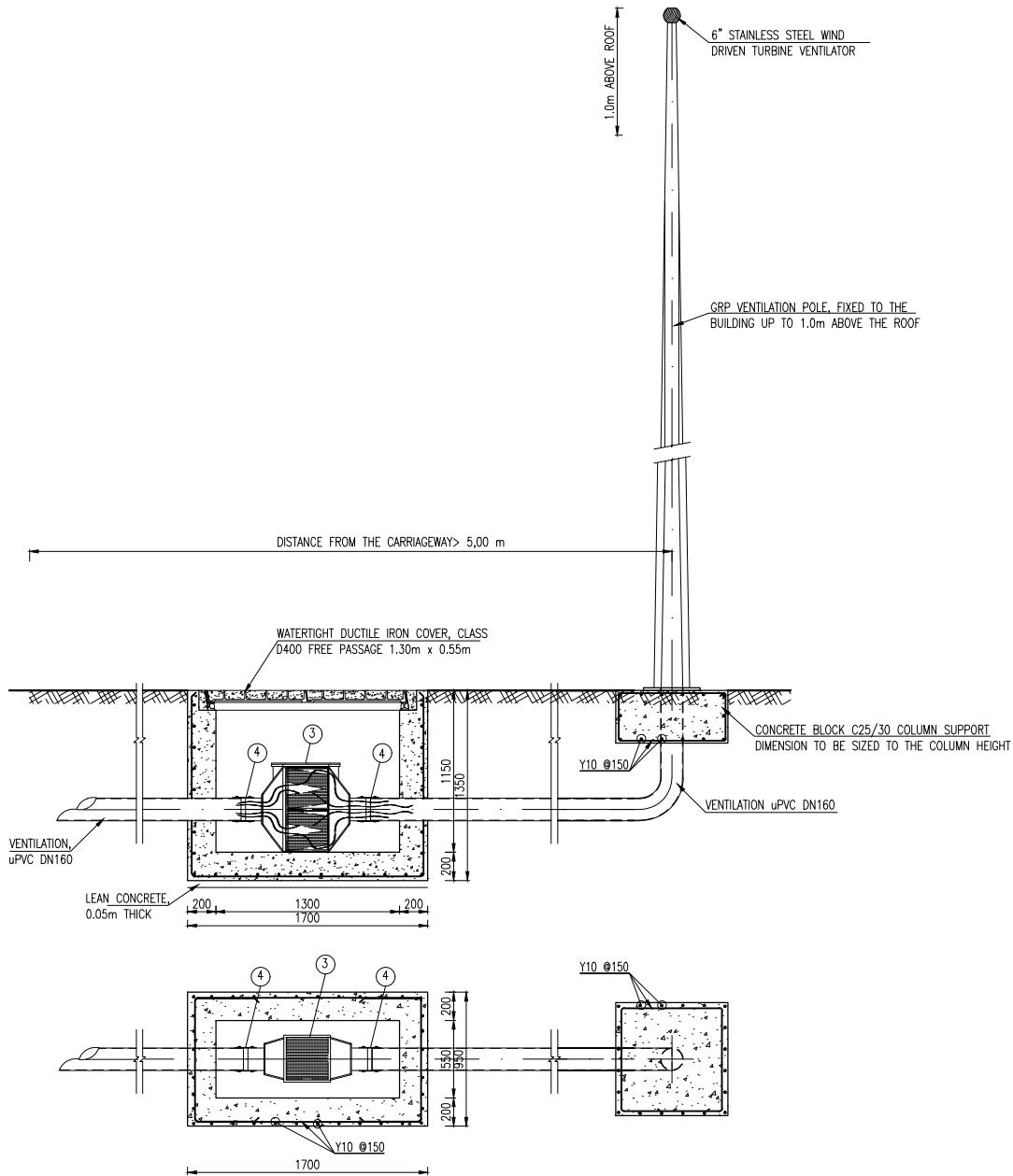


SECTION A-A



LONGITUDINAL PROFILE

EXISTING TRANSITION CHAMBER



CARBON FILTER CHAMBER

VENTILATION COLUMN DETAIL

NOTES:

1. "EPOXI" COATING ON INTERIOR SURFACES
2. CONCRETE C25/30 ; STEEL A500NR
3. DEODORIZATION UNIT TYPE "DEPUR VENT BIO 2XPP12" (Klinger Portugal)
4. INTERCONNECTING SLEEVE WITH STAINLESS STEEL CLAMPS
5. AT THE PRESENT DATE, THERE IS NO INFORMATION AVAILABLE REGARDING THE LONGITUDINAL PROFILE OF THE SET OF PRESSURE PIPES OF THE PB 7/8/9 SYSTEM, SO IT IS NOT KNOWN THE PIPES HIGHEST ELEVATION. THEREFORE, THE "EL" VALUE MUST BE SET ONLY AFTER THAT INFORMATION IS OBTAINED

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÓNDLANE, 1352.
MAPUTO



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CONSULTANTS:

PLANET PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:
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30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
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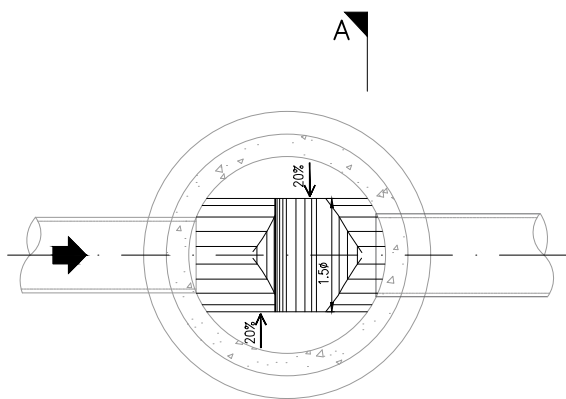
PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

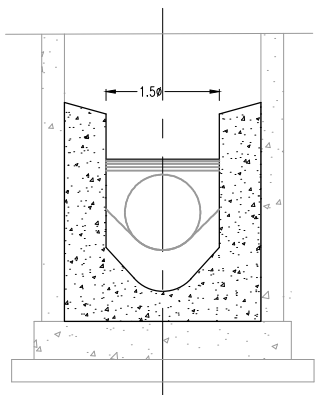
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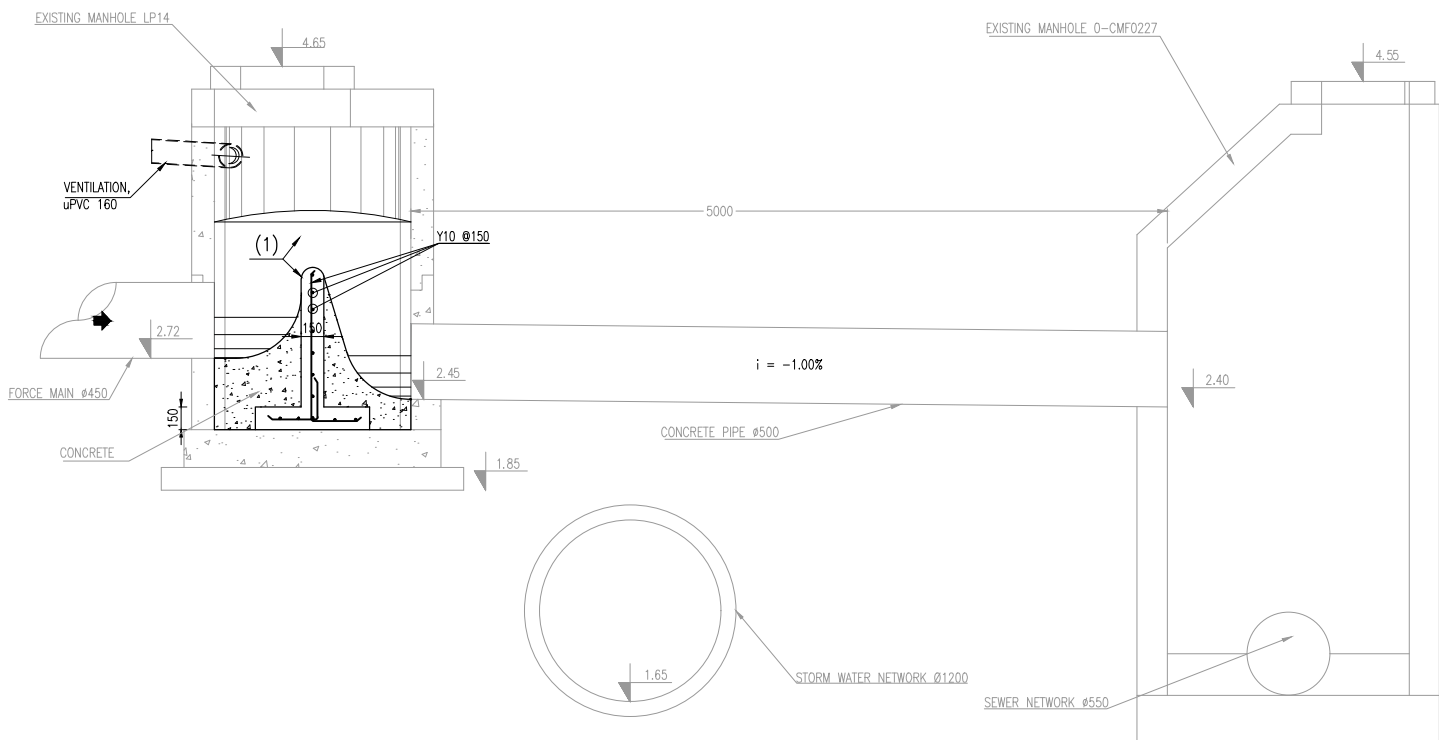
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JOB No. MZSP00512E			
DRAWING No.		Revision	
EEAS/BSMP/MOZ/PS.CW.17		A B C D E F G H I J K L	



PLAN

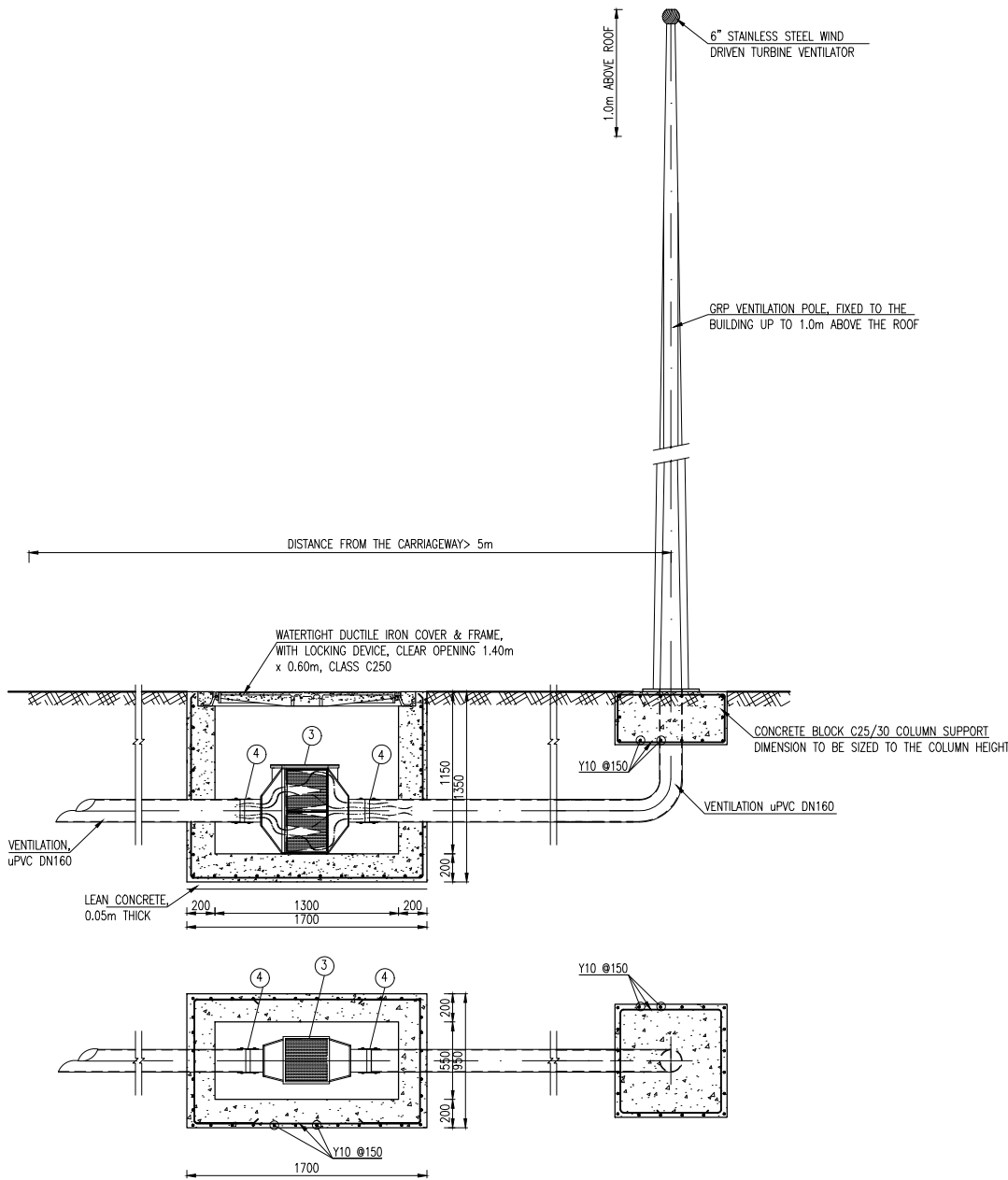


SECTION A-A



LONGITUDINAL PROFILE

EXISTING TRANSITION CHAMBER



CARBON FILTER CHAMBER

VENTILATION COLUMN DETAIL

NOTES:

1. "EPOXI" COATING ON INTERIOR SURFACES
2. CONCRETE C25/30 ; STEEL A500NR
3. DEODORIZATION UNIT TYPE "DEPUR VENT BIO 2XPP12" (Klinger Portugal)
4. INTERCONNECTING SLEEVE WITH STAINLESS STEEL CLAMPS

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM
BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MÓNDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:



SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

PROJECT:

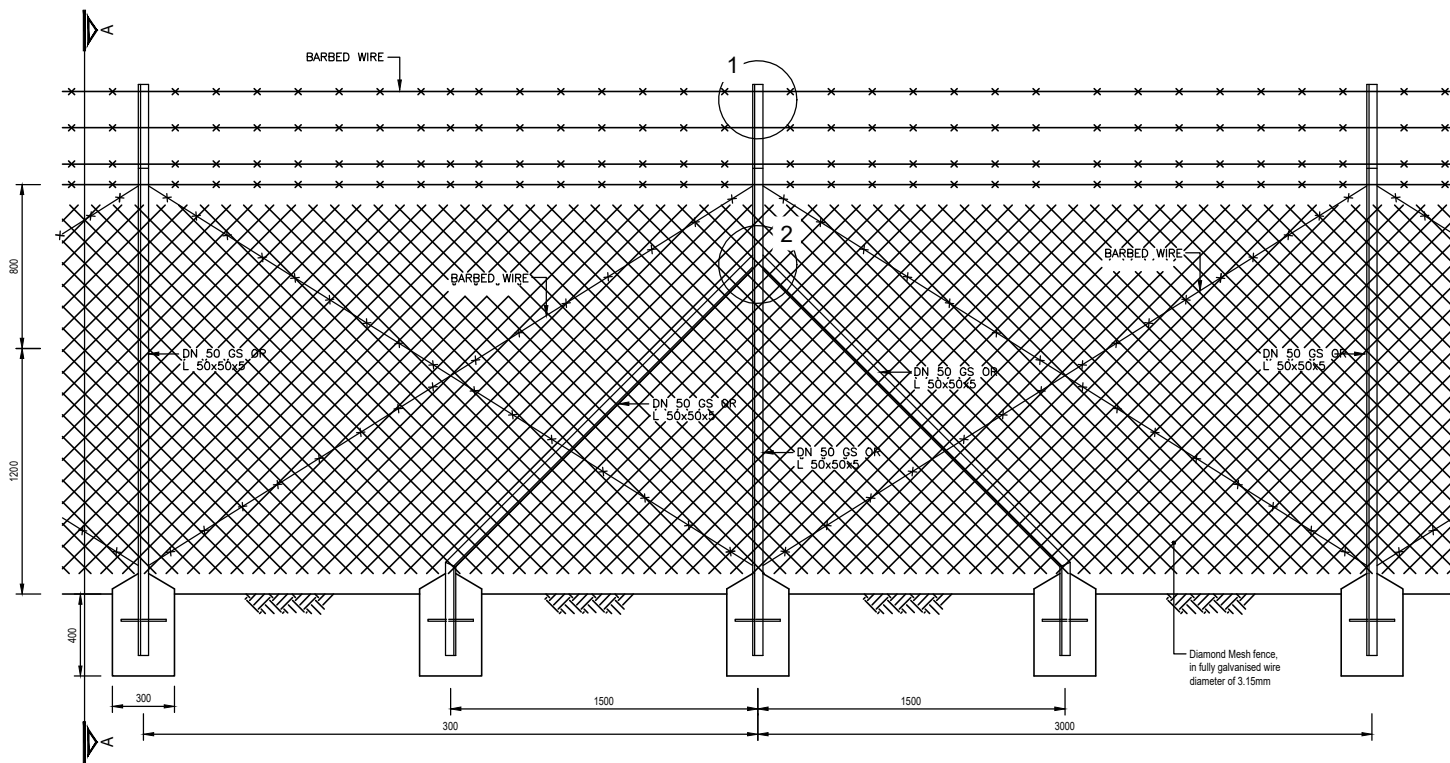
FWC BENEFICIARIES 2018--LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

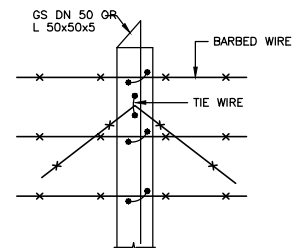
PB10, PB11 & PB14 TRANSITION CHAMBERS DETAILS

DESIGN BY:	PM	DRAWN BY:	AW
CHECKED BY:	MJB	APPROVED BY:	JF
SCALE:	1:25 (A1)	DATE:	MAY 2022

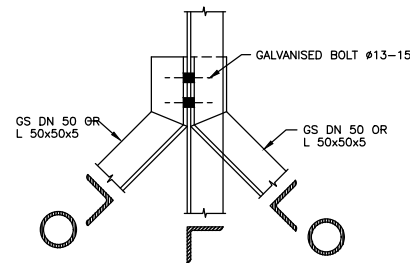
JOB No. MZSP00512E	Revision
DRAWING No.	A B C D E F
EEAS/BSMP/MOZ/PS.CW.18	G H I J K L



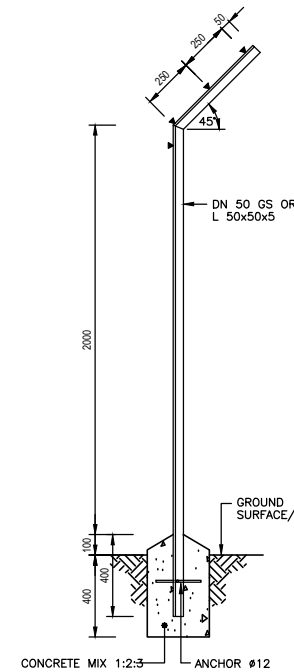
TYPICAL FENCE



DETAIL 1 - 1



DETAIL 2 - 2



SECTION A - A

NOTES:

1. ALL DIMENSIONS IN mm EXCEPT REINFORCEMENT DETAILS
2. WHERE POSSIBLE, STANDARD FENCE POSTS IN GALVANISED STEEL PIPE SHOULD BE USED. IF THIS IS NOT POSSIBLE, USE STEEL ANGLE AS SHOWN.

NOTES:
CONCRETE CLASS 25 / 30

REVISIONS				
REV	DATE	DESCRIPTION	DES.	CHE. APPR

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE
EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS
E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA
(SASB), AVENIDA ARMANDO TIVANE
BEIRA

CONSULTANTS:

PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:

SEURECA VEOLIA SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

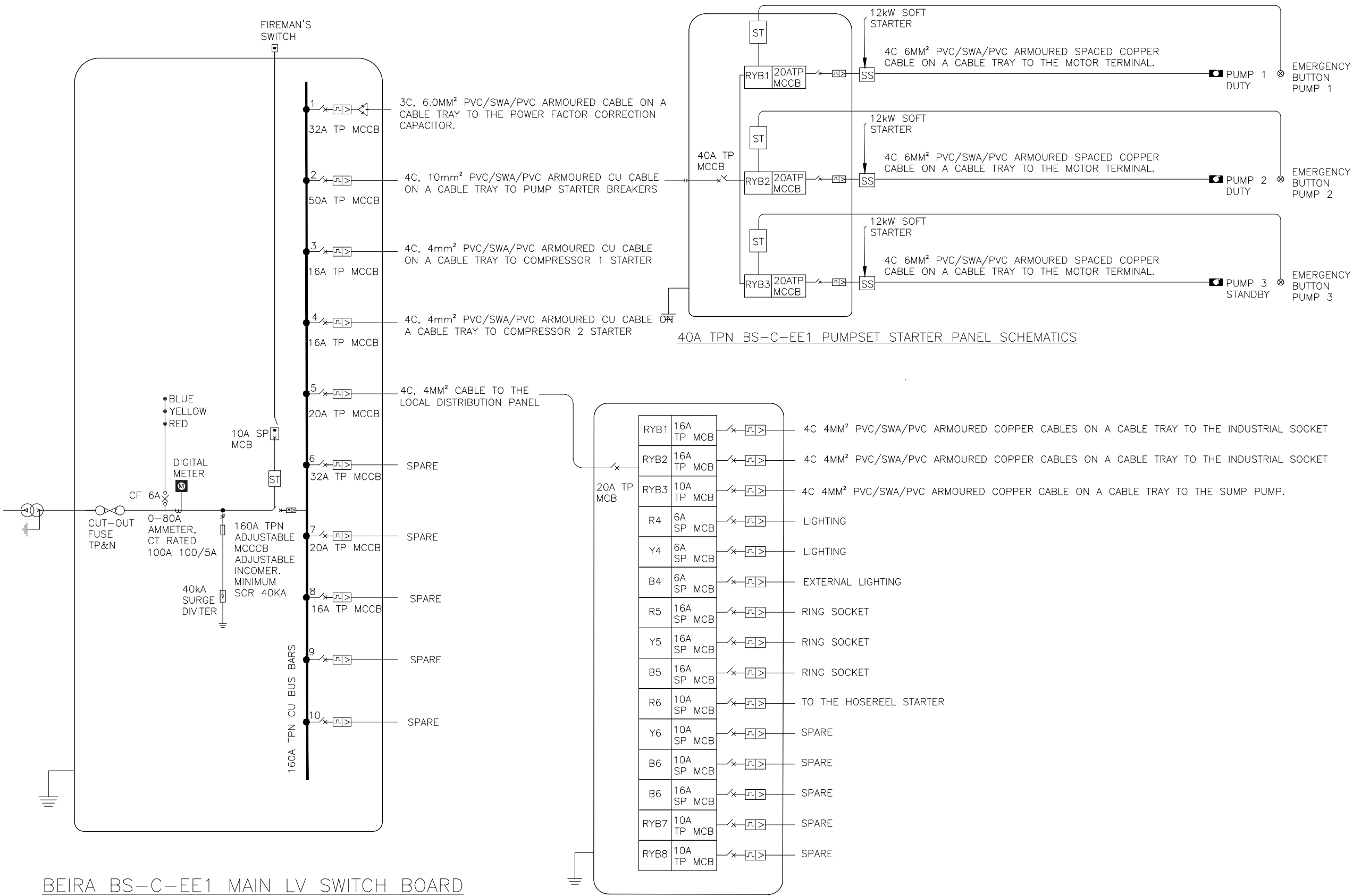
FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

TYPICAL FENCE DETAILS

DESIGN BY:	PM	DRAWN BY:	AW
CHECKED BY:	MJB	APPROVED BY:	JF
SCALE:	1:25 (A1)	DATE:	FEB 2022

JOB No. MZSP00512E	Revision
DRAWING No. EEAS/BSMP/MOZ/PS.CW.19	



BEIRA BS-C-EE1 MAIN LV SWITCH BOARD
RATING: 400V, 160A TPN

8 WAY 20A TPN SUB DISTRIBUTION BOARD DB BEIRA-BS-EE1
QUANTITY: 1

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES

LEGEND

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



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ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS
E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



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(SASB), AVENIDA ARMANDO TIVANE
BEIRA

CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:



SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

PROJECT:

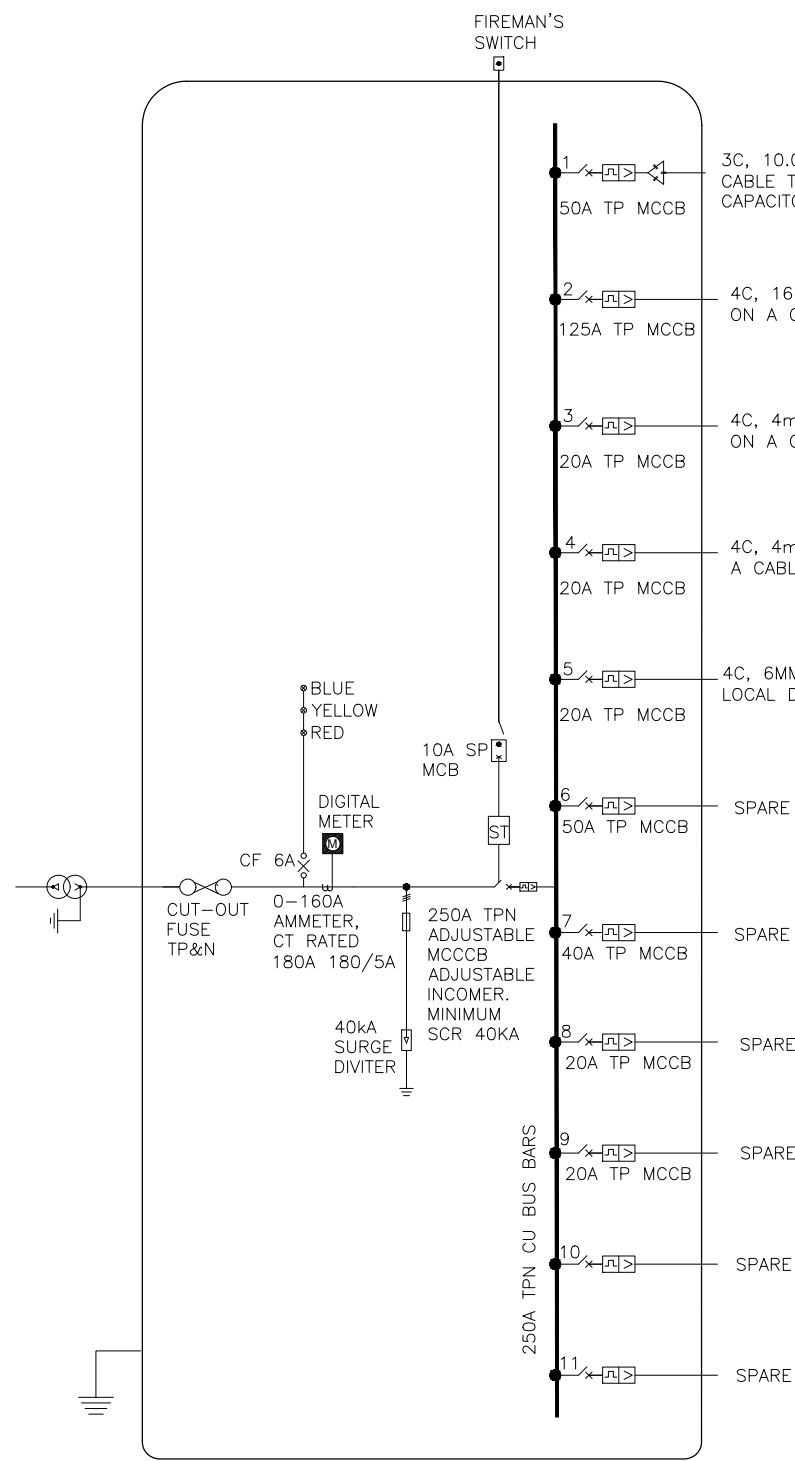
FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

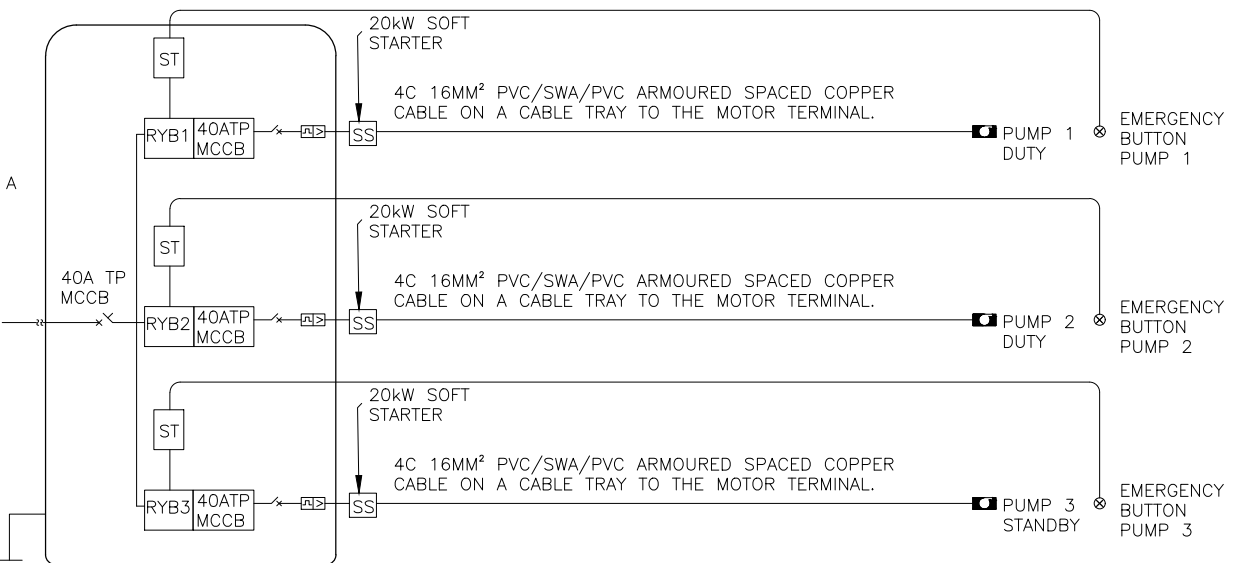
EE1 ELECTRICAL SCHEMATICS

DESIGN BY:	DON	DRAWN BY:	E.M
CHECKED BY:	MJB	APPROVED BY:	DON
SCALE:	NTS	DATE:	MARCH 2022

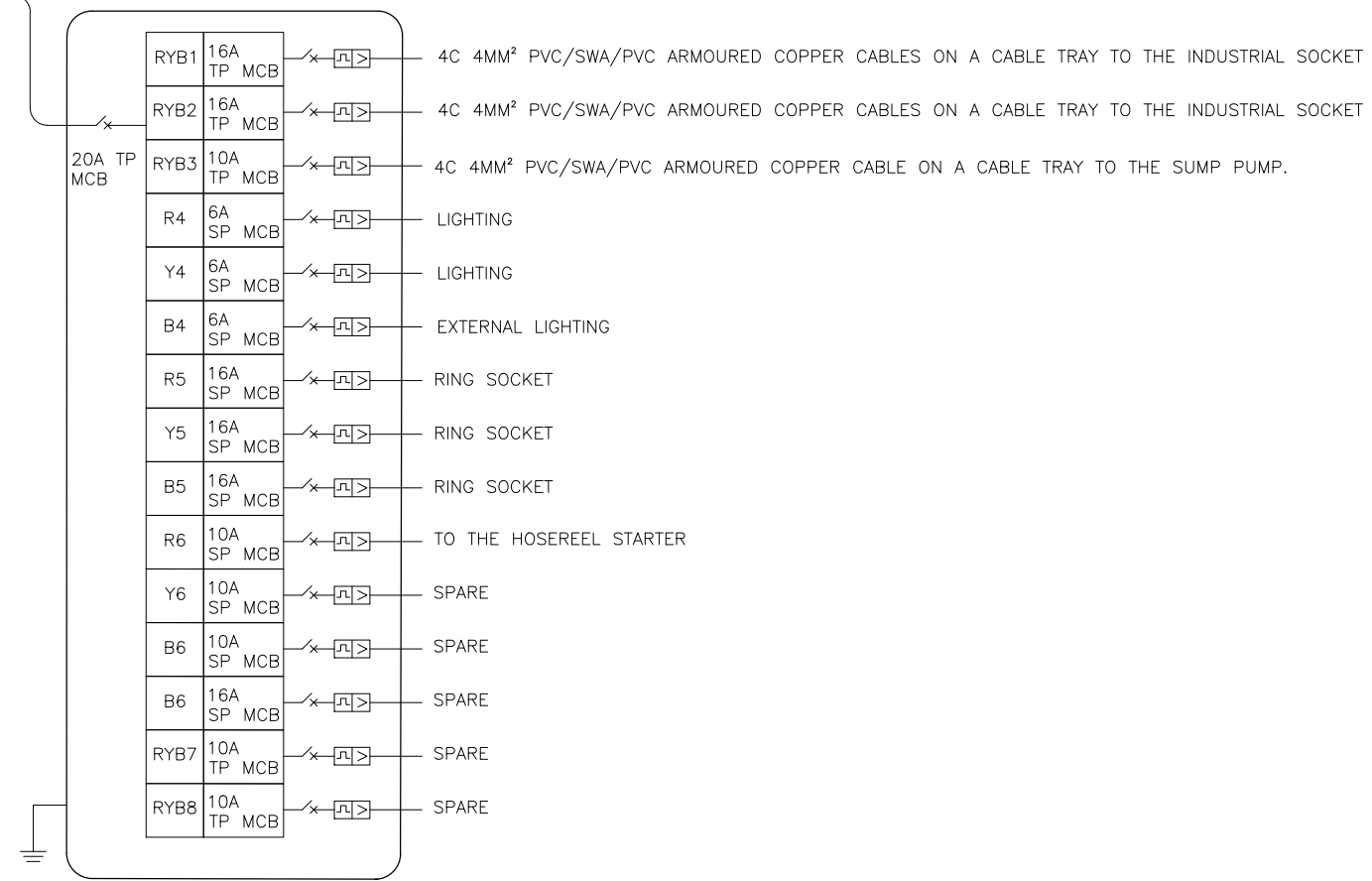
DRAWING No. EEAS/BSMP/MOZ/PS.ME.01	Revision											
	A	B	C	D	E	F	G	H	I	J	K	L



BEIRA BS-C-EE2 MAIN LV SWITCH BOARD
RATING: 400V, 250A TPN



100A TPN BS-C-EE2 PUMPSET STARTER PANEL SCHEMATICS



8 WAY 20A TPN SUB DISTRIBUTION BOARD DB BEIRA-BS-EE2
QUANTITY: 1

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES

LEGEND

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR.

CLIENT:



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MAPUTO



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(SASB), AVENIDA ARMANDO TIVANE
BEIRA

CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:



SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

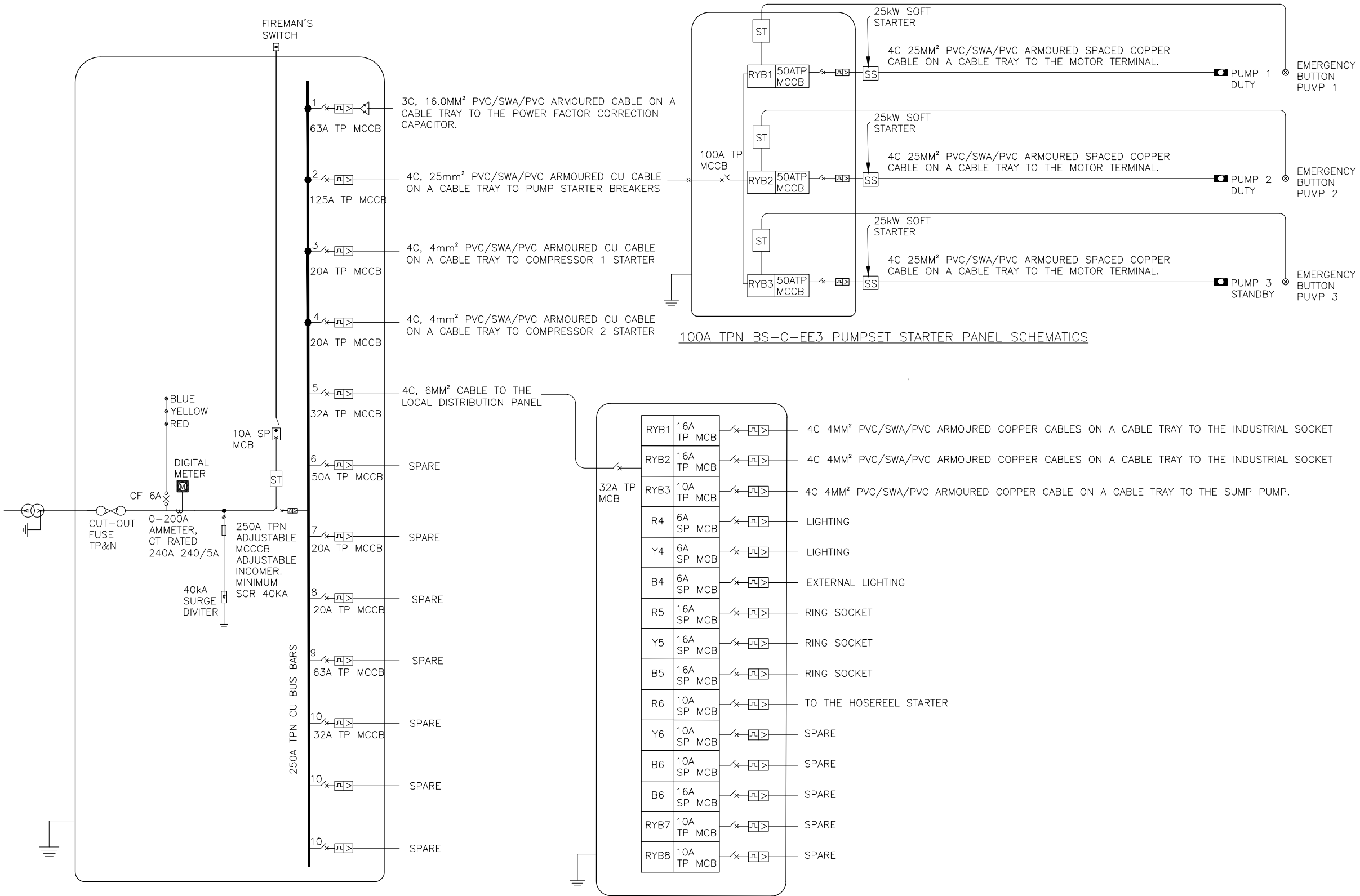
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

EE2 ELECTRICAL SCHEMATICS

DESIGN BY: PM	DRAWN BY: RM
CHECKED BY: MJB	APPROVED BY: JF
SCALE: NTS	DATE: AUG 2021
JOB No. MZSP00512E	Revision
DRAWING No. EEAS/BSMP/MOZ/PS.ME.02	A B C D E F G H I J K L



BEIRA BS-C-EE3 MAIN LV SWITCH BOARD
RATING: 400V, 250A TPN

8 WAY 32A TPN SUB DISTRIBUTION BOARD DB BEIRA-BS-EE3
QUANTITY: 1

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES

LEGEND

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



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ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS
E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA
(SASB), AVENIDA ARMANDO TIVANE
BEIRA

CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:



SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

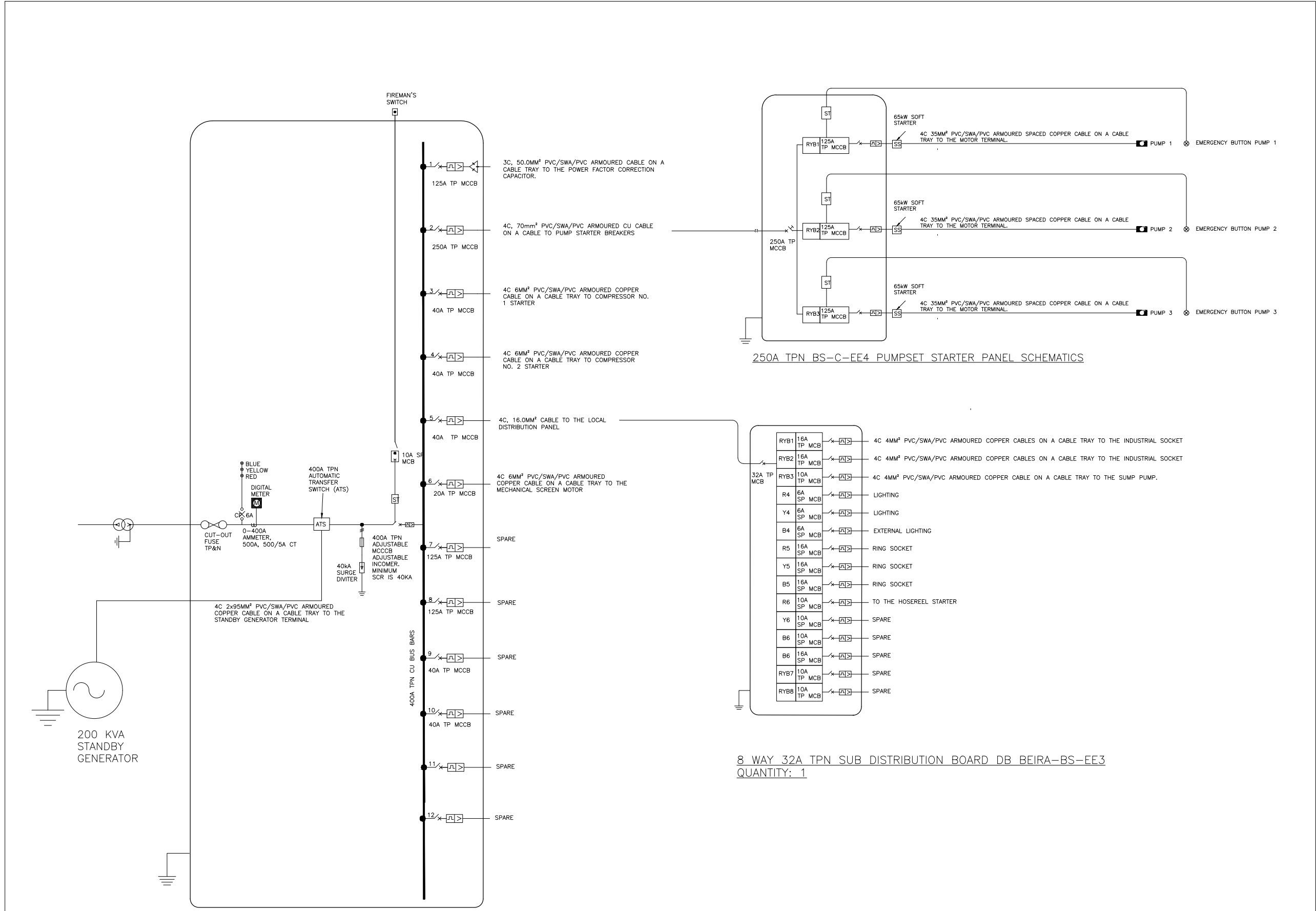
PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

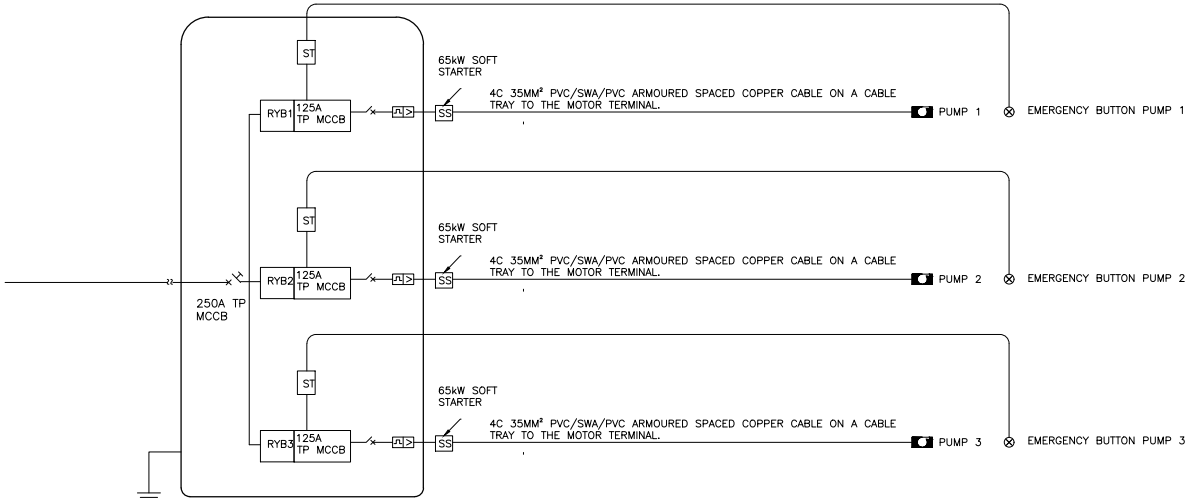
DRAWING TITLE:

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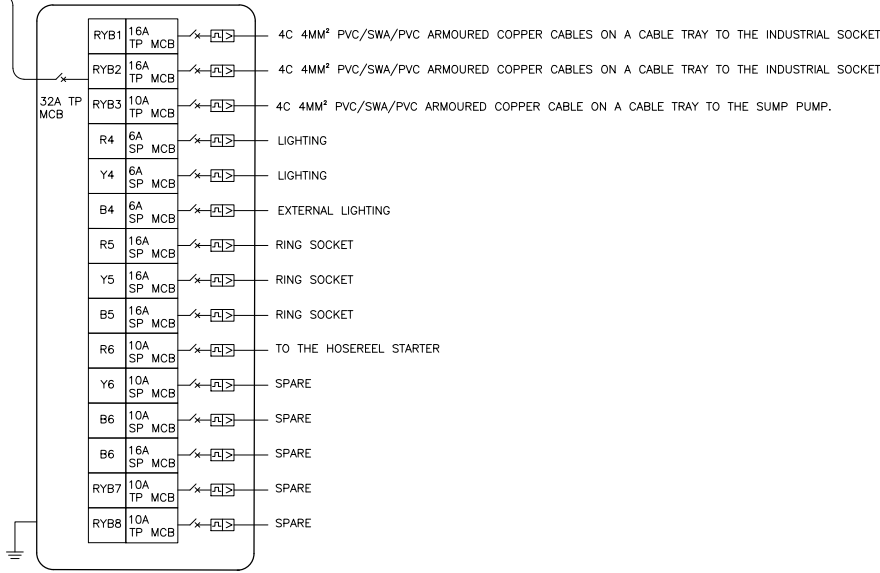
DESIGN BY:	DON	DRAWN BY:	E.M
CHECKED BY:	MJB	APPROVED BY:	DON
SCALE:	NTS	DATE:	MARCH 2022
JOB No.	MZSP00512E		
DRAWING No.	EEAS/BSMP/MOZ/PS.ME.03	Revision	
		A	B
		C	D
		E	F
		G	H
		I	J
		K	L



BEIRA SANITATION MASTER PLAN PUMPING STATION MAIN LV SWITCH BOARD-BEIRA-WWTP-MV-EE4
RATING: 400V TPN
QUANTITY: 1



250A TPN BS-C-EE4 PUMPSET STARTER PANEL SCHEMATICS



8 WAY 32A TPN SUB DISTRIBUTION BOARD DB BEIRA-BS-EE3
QUANTITY: 1

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES

LEGEND

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



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EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS
E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA
(SASB), AVENIDA ARMANDO TIVANE

CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:



SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

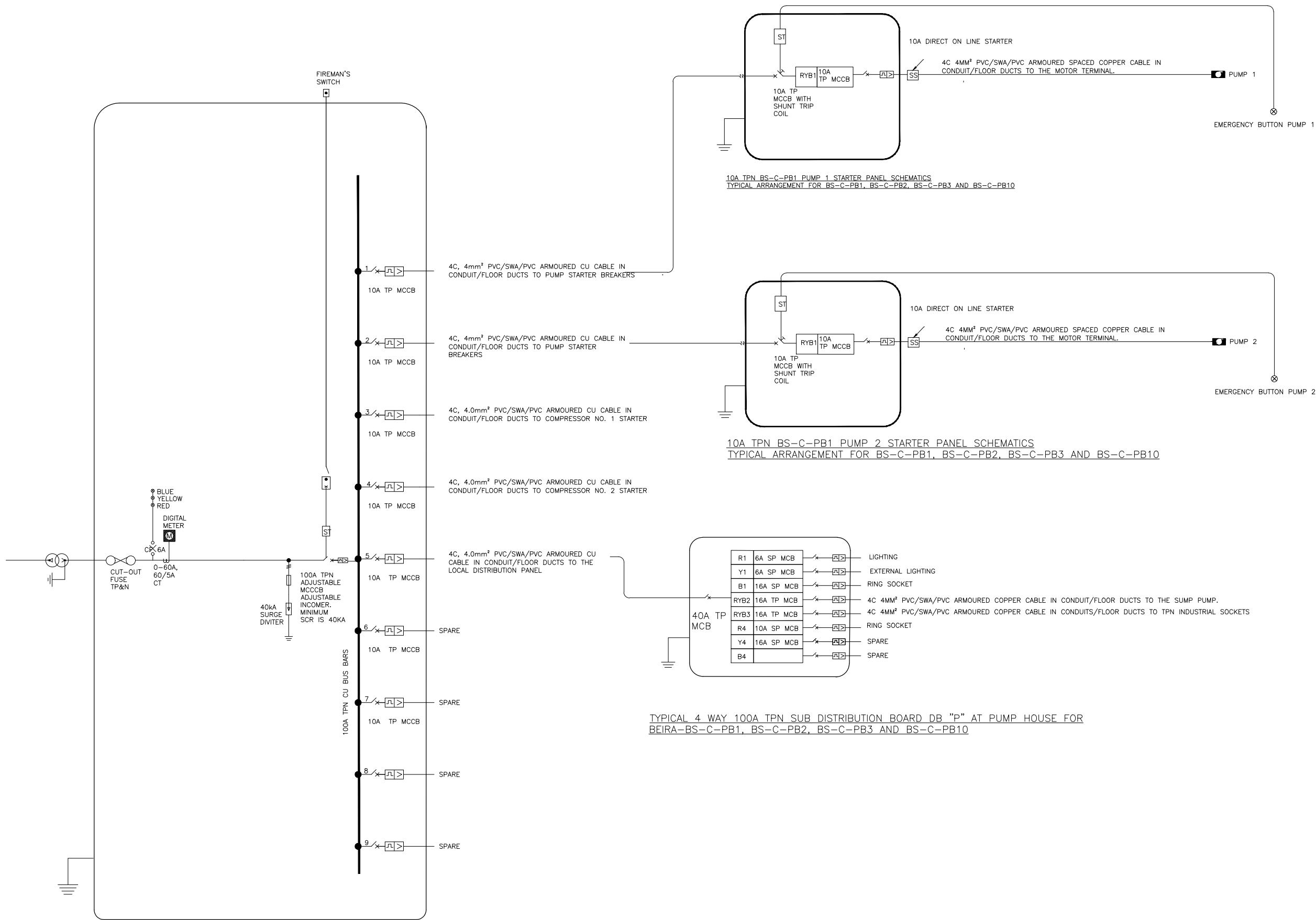
DRAWING TITLE:

EE4 ELECTRICAL SCHEMATICS

DESIGN BY:	DON	DRAWN BY:	E.M
CHECKED BY:	MJB	APPROVED BY:	DON
SCALE:	NTS	DATE:	MARCH 2022

JOB No. MZSP00512E

DRAWING No.	Revision					
EEAS/BSMP/MOZ/PS.ME.04	A	B	C	D	E	F
	G	H	I	J	K	L



TYPICAL BEIRA BS-C-PB1, BS-C-PB2, BS-C-PB3 AND BS-C-PB10 MAIN LV SWITCH BOARD
RATING: 400V TPN

10A TPN BS-C-PB1 PUMP 1 STARTER PANEL SCHEMATICS
TYPICAL ARRANGEMENT FOR BS-C-PB1, BS-C-PB2, BS-C-PB3 AND BS-C-PB10

10A TPN BS-C-PB1 PUMP 2 STARTER PANEL SCHEMATICS
TYPICAL ARRANGEMENT FOR BS-C-PB1, BS-C-PB2, BS-C-PB3 AND BS-C-PB10

TYPICAL 4 WAY 100A TPN SUB DISTRIBUTION BOARD DB "P" AT PUMP HOUSE FOR
BEIRA-BS-C-PB1, BS-C-PB2, BS-C-PB3 AND BS-C-PB10

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES

LEGEND

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR

CLIENT:



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ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS
E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA
(SASB), AVENIDA ARMANDO TIVANE
BEIRA

CONSULTANTS:

PLANET PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885
IN ASSOCIATION WITH:
SEURECA **VEOLIA** SEURECA CONSULTING ENGINEERS
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

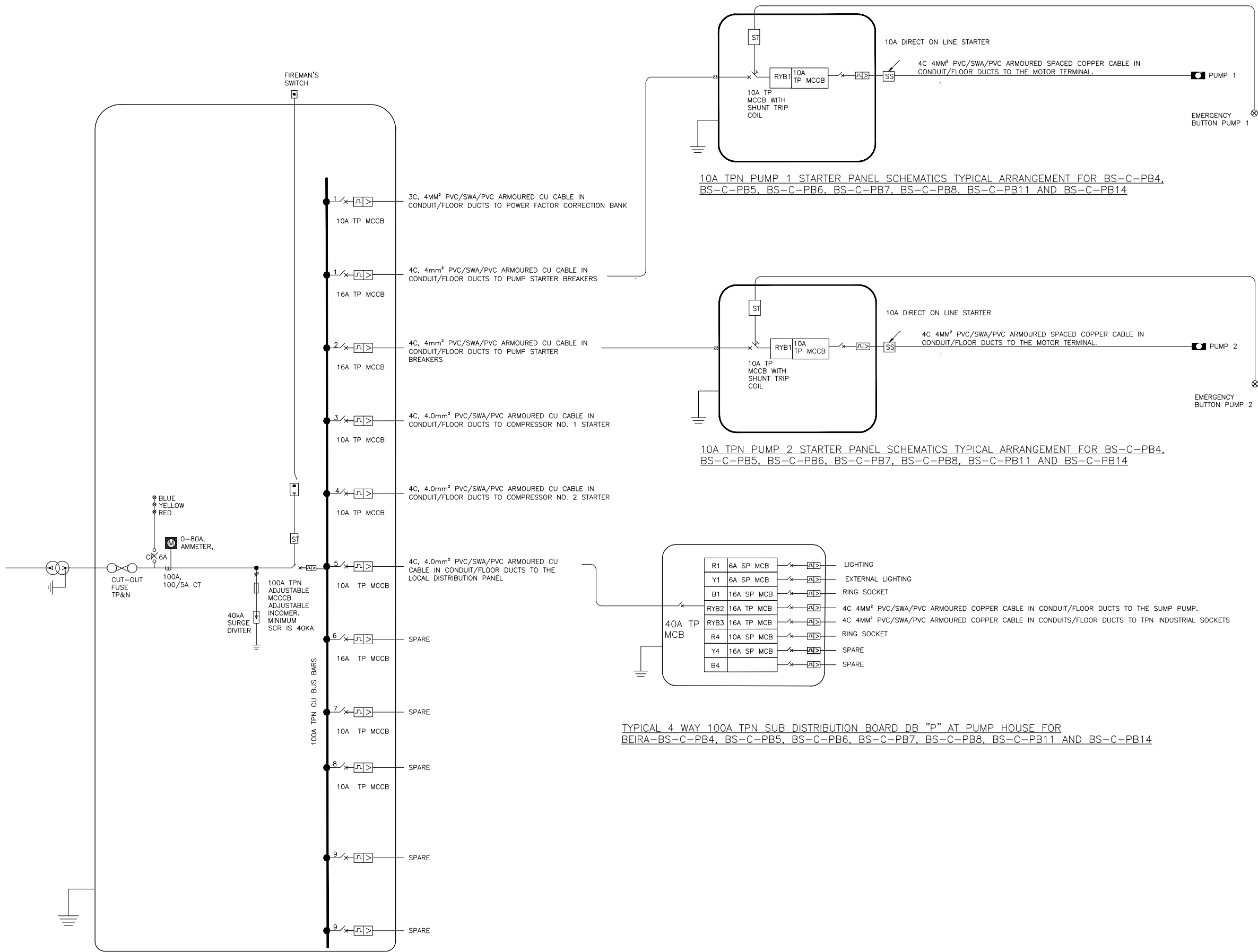
PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

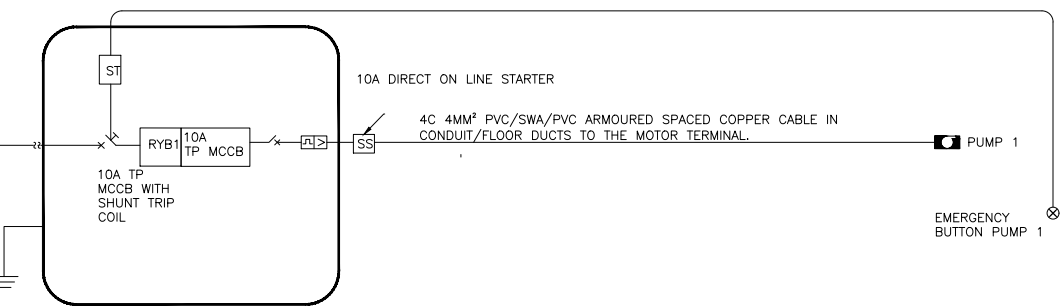
DRAWING TITLE:

PB1, PB2, PB3 & PB10 ELECTRICAL SCHEMATICS

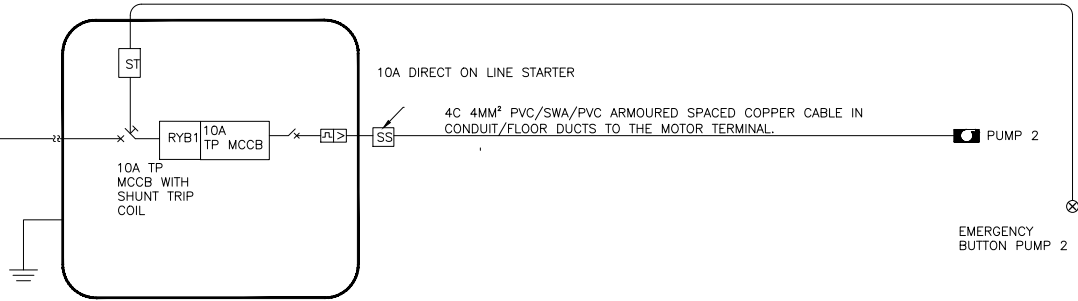
DESIGN BY: DON	DRAWN BY: EM
CHECKED BY: MJB	APPROVED BY: DON
SCALE: NTS	DATE: MAR 2022
JOB No. MZSP00512E	
DRAWING No. EEAS/BSMP/MOZ/PS.ME.05	Revision A B C D E F G H I J K L



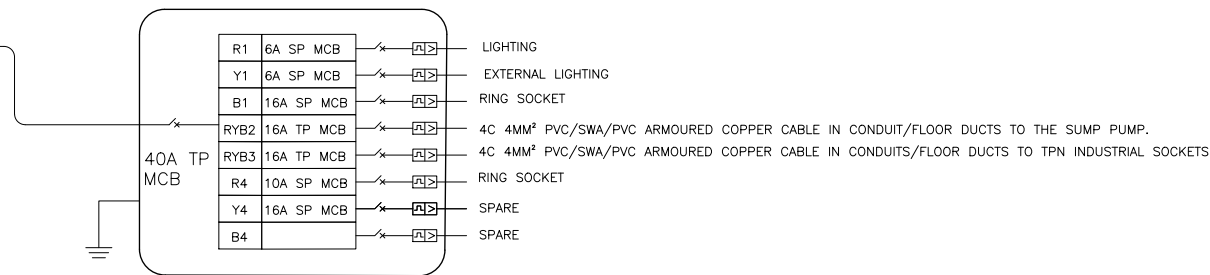
TYPICAL BEIRA BS-C-PB4, BS-C-PB5, BS-C-PB6, BS-C-PB7, BS-C-PB8, BS-C-PB11 AND BS-C-PB14 MAIN LV SWITCH BOARD RATING: 400V TPN



10A TPN PUMP 1 STARTER PANEL SCHEMATICS TYPICAL ARRANGEMENT FOR BS-C-PB4, BS-C-PB5, BS-C-PB6, BS-C-PB7, BS-C-PB8, BS-C-PB11 AND BS-C-PB14



10A TPN PUMP 2 STARTER PANEL SCHEMATICS TYPICAL ARRANGEMENT FOR BS-C-PB4, BS-C-PB5, BS-C-PB6, BS-C-PB7, BS-C-PB8, BS-C-PB11 AND BS-C-PB14



TYPICAL 4 WAY 100A TPN SUB DISTRIBUTION BOARD DB "P" AT PUMP HOUSE FOR BEIRA-BS-C-PB4, BS-C-PB5, BS-C-PB6, BS-C-PB7, BS-C-PB8, BS-C-PB11 AND BS-C-PB14

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES

LEGEND

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR.

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BENEFICIARY: AIAS, SASB

.Mozambique\AIAS.jpg

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO

.Mozambique\SASB.jpg

SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE
BEIRA

CONSULTANTS:

.Mozambique\PLANET.jpg

PLANET S.A.

APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS - GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:

.Mozambique\Seureca Logo.JPG

SEURECA CONSULTING ENGINEERS

30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS - FRANCE
TEL: +331 85 57 70 00

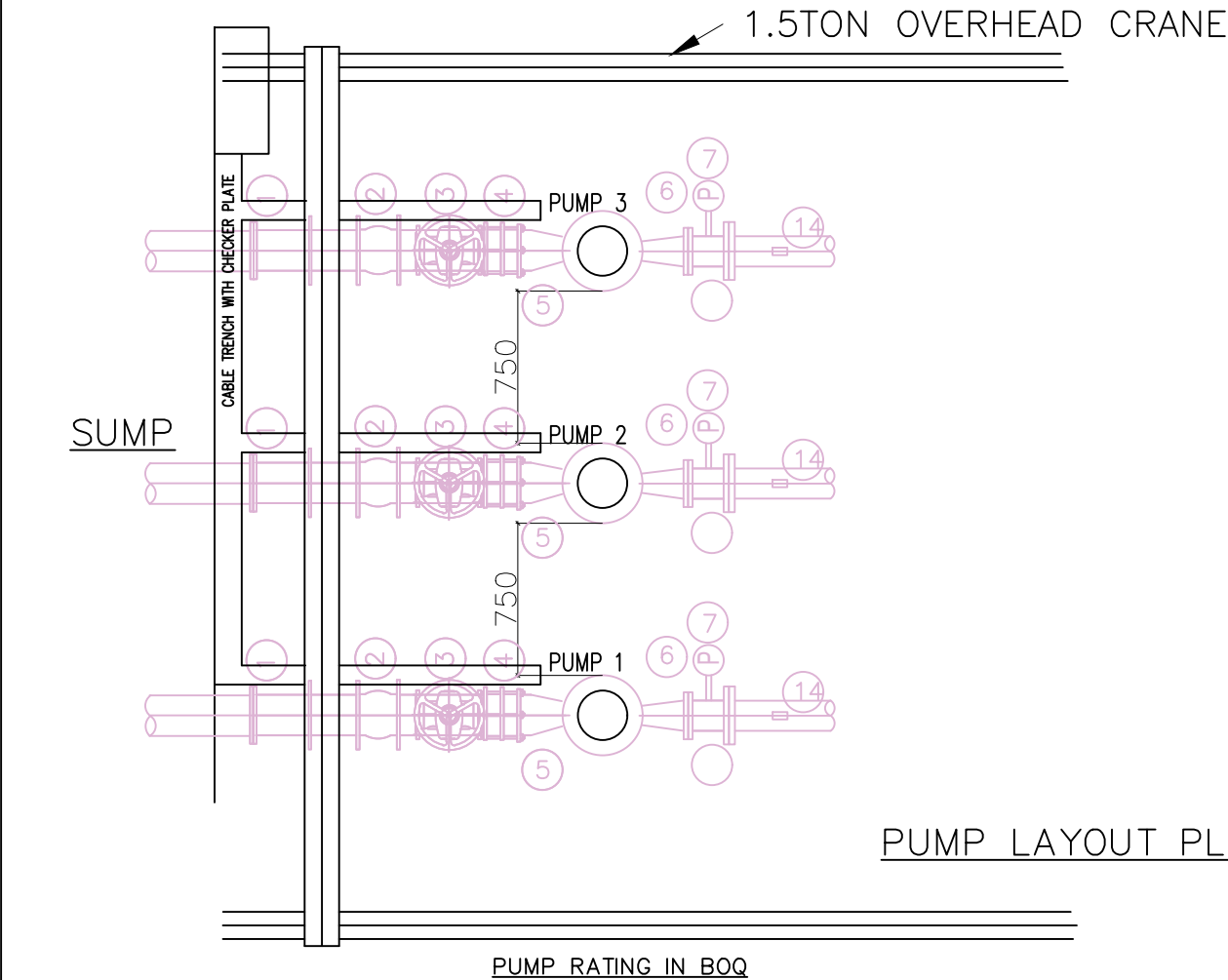
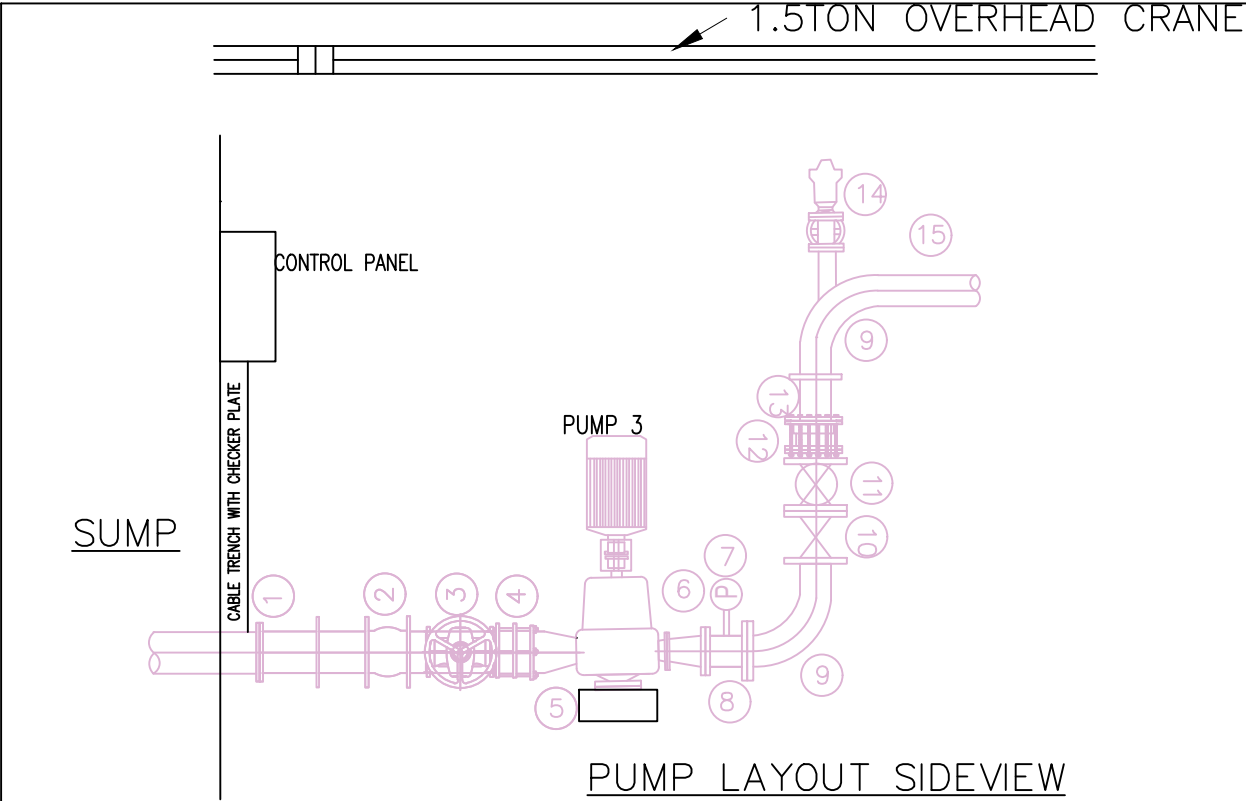
PROJECT:

FWC BENEFICIARIES 2018-LOT 2: INFRASTRUCTURE, SUSTAINABLE GROWTH AND JOBS, EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN, MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

PB4, PB5, PB6, PB7, PB8, PB11 & PB14
ELECTRICAL SCHEMATICS

DESIGN BY:	DON	DRAWN BY:	E.M
CHECKED BY:	MJB	APPROVED BY:	DON
SCALE:	NTS	DATE:	MARCH 2022
JOB No.	MZSP00512E	Revision	
DRAWING No.	EEAS/BSMP/MOZ/PS.ME.06	A	B
		C	D
		E	F
		G	H
		I	J
		K	L



LEGEND

SUCTION & DELIVERY
PIPEWORK SCHEDULE:

ITEM	DESCRIPTION	DN	No.
1	SINGLE FLANGE PIPE PIECE WITH A PUDDLE FLANGE	DN150	2
2	FLEXIBLE RUBBER JOINT	DN150	2
3	DOUBLE FLANGED GATE VALVE	DN150	2
4	FLANGE DISMANTLING UNIT	DN150	2
5	DOUBLE FLANGED CONCENTRIC TAPER	DN150/100	2
6	DOUBLE FLANGED CONCENTRIC TAPER	DN100/80	2
7	PRESSURE GAUGE	DN40	2
8	DOUBLE FLANGE PIPE PIECE	DN100	2
9	DOUBLE FLANGED ELBOW 90°	DN100	2
10	DOUBLE FLANGED GATE VALVE	DN100	2
11	DOUBLE FLANGED NON RETURN VALVE	DN100	2
12	FLANGE DISMANTLING UNIT	DN100	2
13	SINGLE FLANGE PIPE PIECE WITH A PUDDLE FLANGE	DN100	2
14	DN40 FLANGED AIR VALVE	DN40	2
15	SINGLE FLANGED PIPE PIECE L=1000mm (BE ADJUSTED ON SITE)	DN100	2
	L=1000mm (BE ADJUSTED ON SITE)		

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES

LEGEND

REVISIONS

REV	DATE	DESCRIPTION	DES.	CHE.	APPR.

CLIENT:



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EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB





ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS
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MAPUTO



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CONSULTANTS:

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APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
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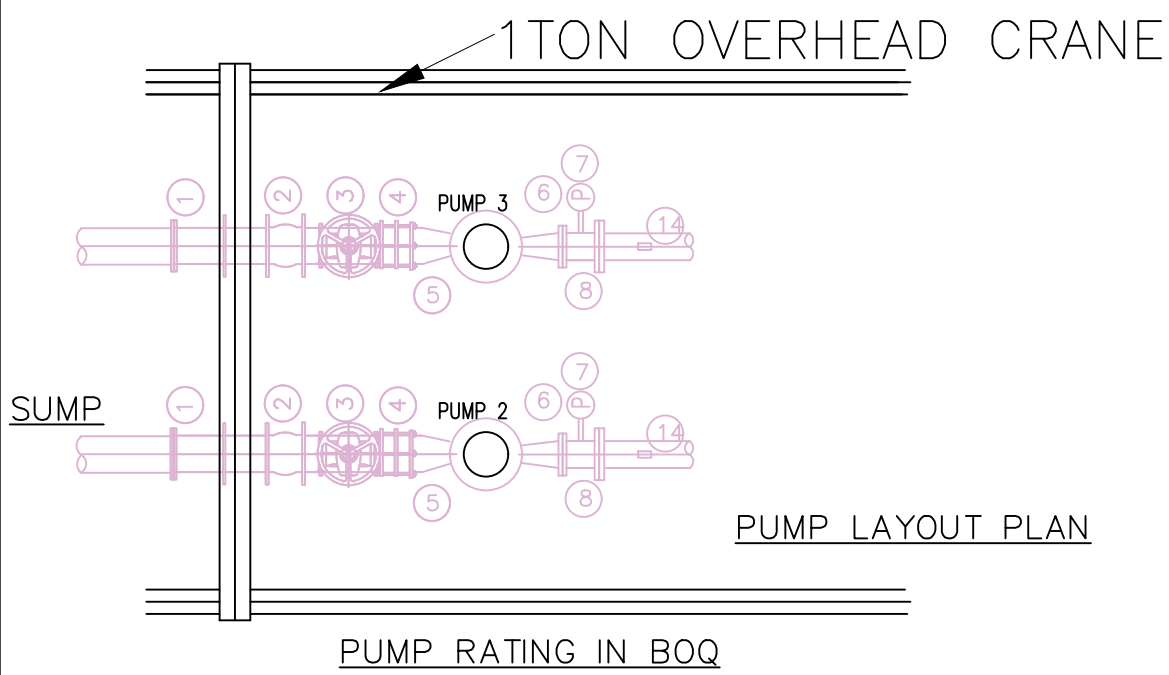
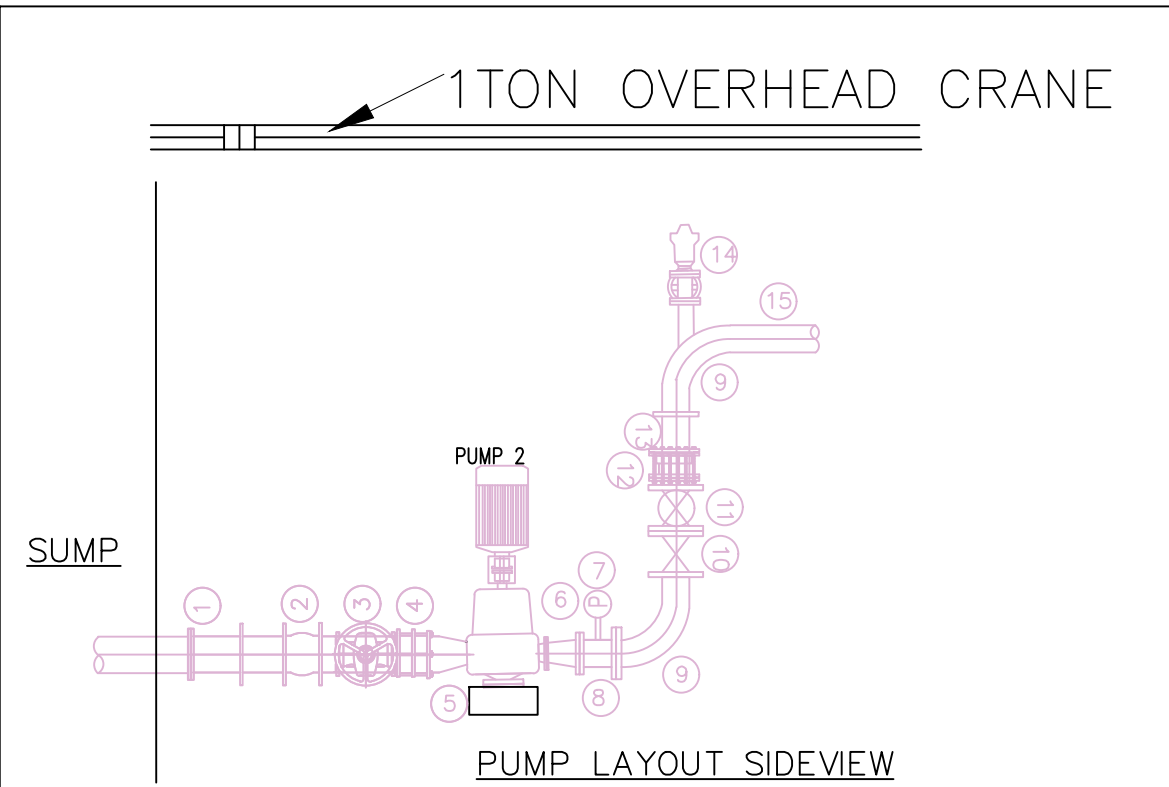
IN ASSOCIATION WITH:
**SEURECA CONSULTING ENGINEERS**
30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:
FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:
TYPICAL EEs BOOSTER STATIONS
PUMPS LAYOUT

DESIGN BY:	DON	DRAWN BY:	PM
CHECKED BY:	MJB	APPROVED BY:	DON
SCALE:	Hor 1:1000, Ver 1:100	DATE:	MAR 2022

JOB No. MZSP00512E	Revision
DRAWING No.	
EEAS/BSMP/MOZ/PS.ME.08	



LEGEND			
SUCTION & DELIVERY PIPEWORK SCHEDULE:			
ITEM	DESCRIPTION	DN	No.
1	SINGLE FLANGE PIPE PIECE WITH A PUDDLE FLANGE	DN150	2
2	FLEXIBLE RUBBER JOINT	DN150	2
3	DOUBLE FLANGED GATE VALVE	DN150	2
4	FLANGE DISMANTLING UNIT	DN150	2
5	DOUBLE FLANGED CONCENTRIC TAPER	DN150/100	2
6	DOUBLE FLANGED CONCENTRIC TAPER	DN100/80	2
7	PRESSURE GAUGE	DN40	2
8	DOUBLE FLANGE PIPE PIECE	DN100	2
9	DOUBLE FLANGED ELBOW 90°	DN100	2
10	DOUBLE FLANGED GATE VALVE	DN100	2
11	DOUBLE FLANGED NON RETURN VALVE	DN100	2
12	FLANGE DISMANTLING UNIT	DN100	2
13	SINGLE FLANGE PIPE PIECE WITH A PUDDLE FLANGE	DN100	2
14	DN40 FLANGED AIR VALVE	DN40	2
15	SINGLE FLANGED PIPE PIECE L=1000mm (BE ADJUSTED ON SITE)	DN100	2
	L=1000mm (BE ADJUSTED ON SITE)		

GENERAL NOTES:

1. ALL DIMENSIONS IN METRES

LEGEND

REVISIONS

REV. DATE DESCRIPTION DES. CHE. APPR.

CLIENT:



THE EUROPEAN UNION, REPRESENTED BY THE EUROPEAN COMMISSION, B-1049 BRUSSELS, BELGIUM

BENEFICIARY: AIAS, SASB



ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUA E SANEAMENTO

ADMINISTRAÇÃO DE INFRA-ESTRUTURAS DE ÁGUAS E SANEAMENTO (AIAS)
AV. EDUARDO MONDLANE, 1352.
MAPUTO



SERVIÇO AUTÓNOMO DE SANEAMENTO DA BEIRA (SASB), AVENIDA ARMANDO TIVANE BEIRA

CONSULTANTS:



PLANET S.A.
APOLLO TOWER 64 | LOUISE RIENCOURT
ST. 11523 ATHENS – GR
+30 210 690 5000
+30 210 698 1885

IN ASSOCIATION WITH:



SEURECA CONSULTING ENGINEERS

30 RUE MADELEINE VIONNET
93300 AUBERVILLIERS – FRANCE
TEL: +331 85 57 70 00

PROJECT:

FWC BENEFICIARIES 2018–LOT 2: INFRASTRUCTURE,
SUSTAINABLE GROWTH AND JOBS,
EUROPEAID/138778/DH/SER/MULTI
BEIRA SANITATION MASTER PLAN, PRELIMINARY DESIGN,
MOZAMBIQUE
SPECIFIC CONTRACT N° 300009970

DRAWING TITLE:

TYPICAL PBs BOOSTER STATIONS
PUMPS LAYOUT

DESIGN BY: DON DRAWN BY: PM

CHECKED BY: MJB APPROVED BY: DON

SCALE: Hor 1:1000, Ver 1:100 DATE: MAR 2022

JOB No. MZSP00512E

DRAWING No. EEAS/BSMP/MOZ/PS.ME.09

Revision
A B C D E F
G H I J K L