

CONSULTANCY SERVICES FOR SURVEY, DESIGN AND EIA WORKS OF WATER SUPPLY AND
SEWERAGE FACILITIES IN 7 ISLANDS, MALDIVES

PACKAGE 6

SEWERAGE SYSTEM OF L. HITHADHOO ,MALDIVES

For Ministry of National Planning and Housing Infrastructure, Republic of Maldives

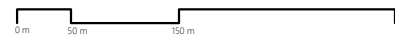
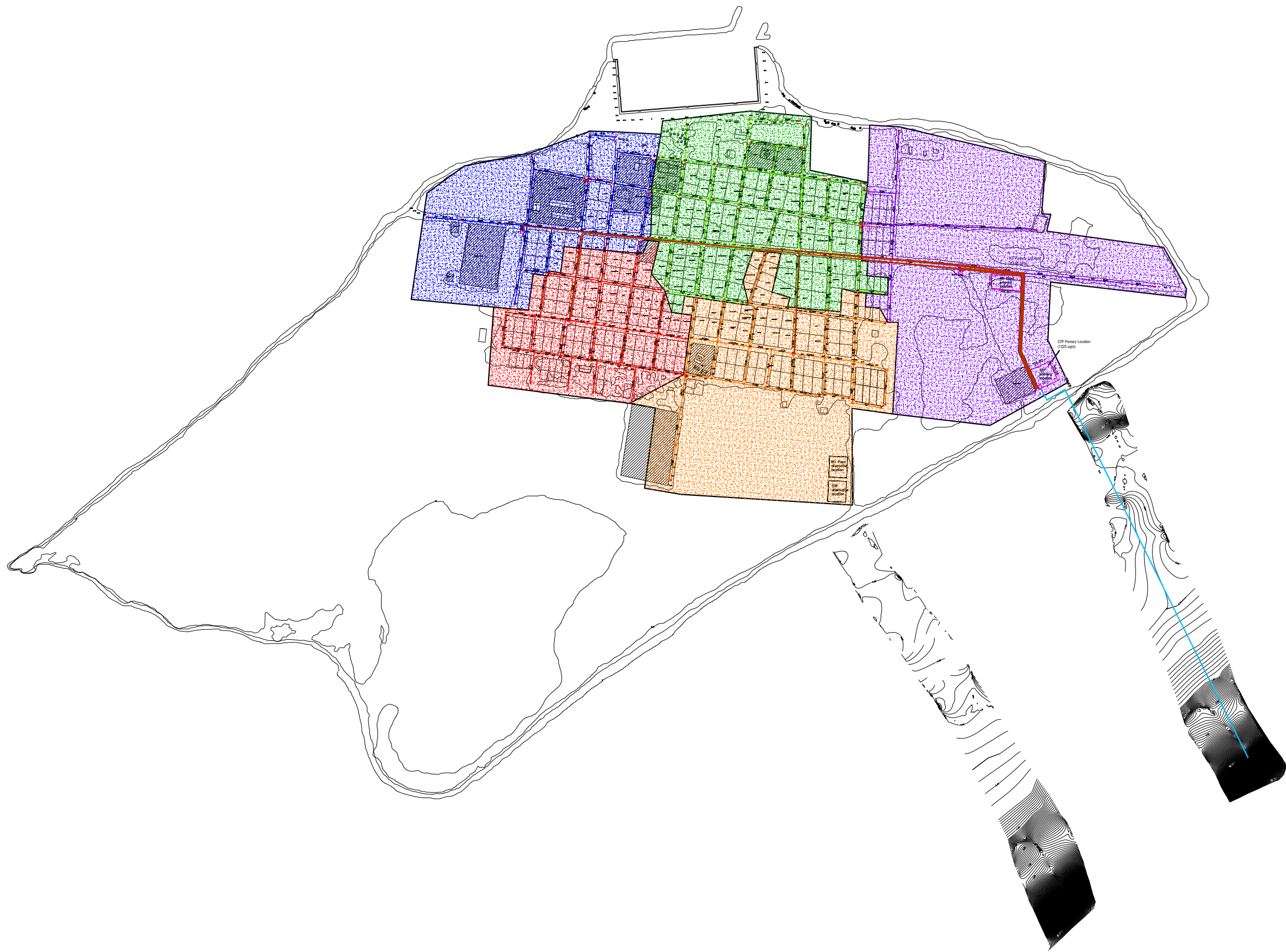


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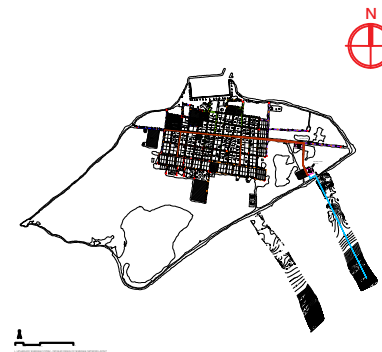


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


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L. HITHADHOO SEWERAGE SYSTEM - SEWERAGE NETWORK CATCHMENT AREAS
1:7000



Legend

-  PS-1 Catchment Area
-  PS-2 Catchment Area
-  PS-3 Catchment Area

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Sub Title:
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Client:
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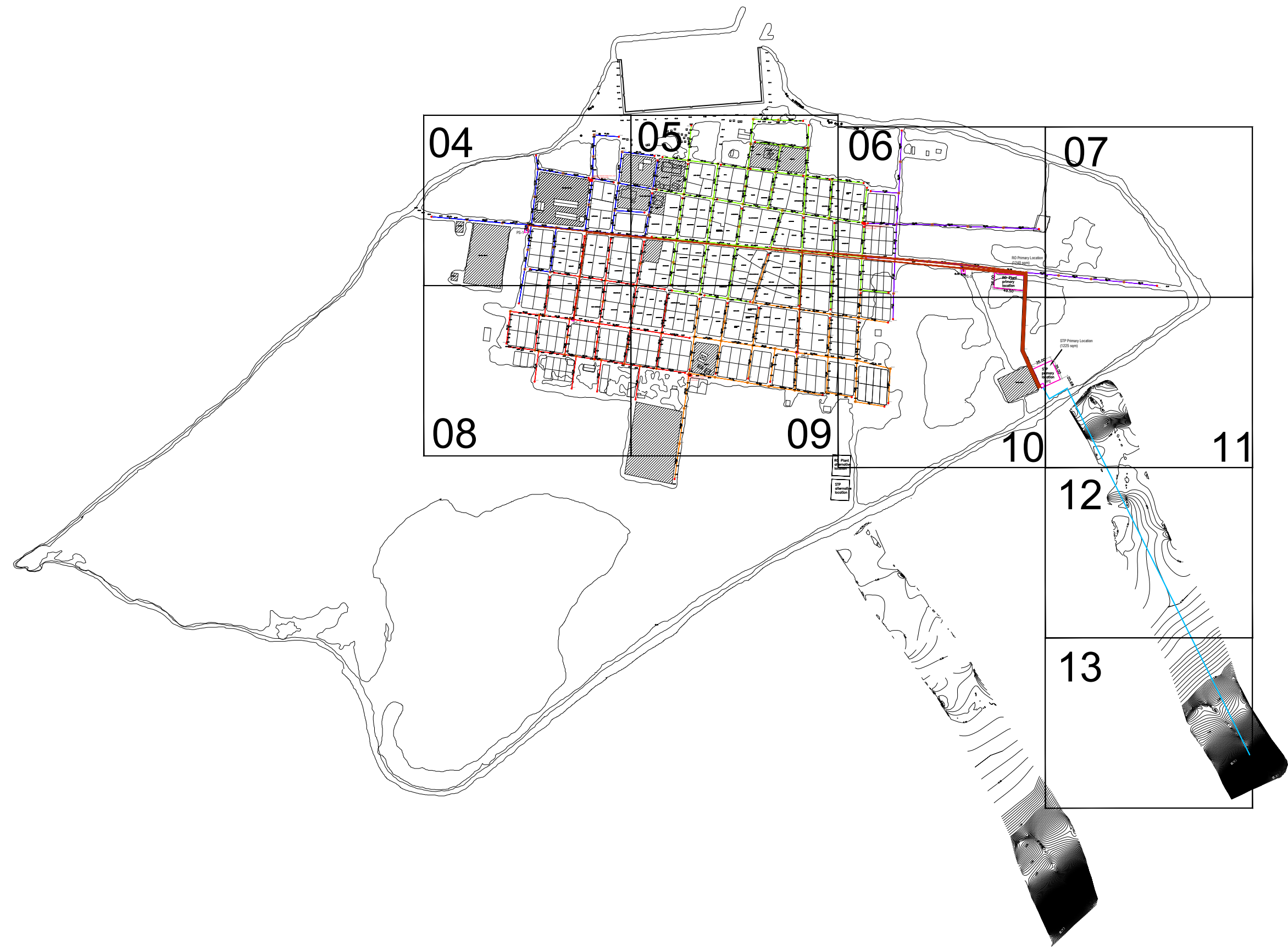


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A-(2)



L. HITHADHOO SEWERAGE SYSTEM - SEWERAGE NETWORK ZONE LAYOUT
1:7000



Legend

- 160mm Ø uPVC PS1 Gravity Sewer Main (SN4, SDR41)
- 160mm Ø uPVC PS2 Gravity Sewer Main (SN4, SDR41)
- 160mm Ø uPVC PS3 Gravity Sewer Main (SN4, SDR41)
- 160mm Ø uPVC PS4 Gravity Sewer Main (SN4, SDR41)
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- 600mm Ø PE/PP Maintenance Shaft
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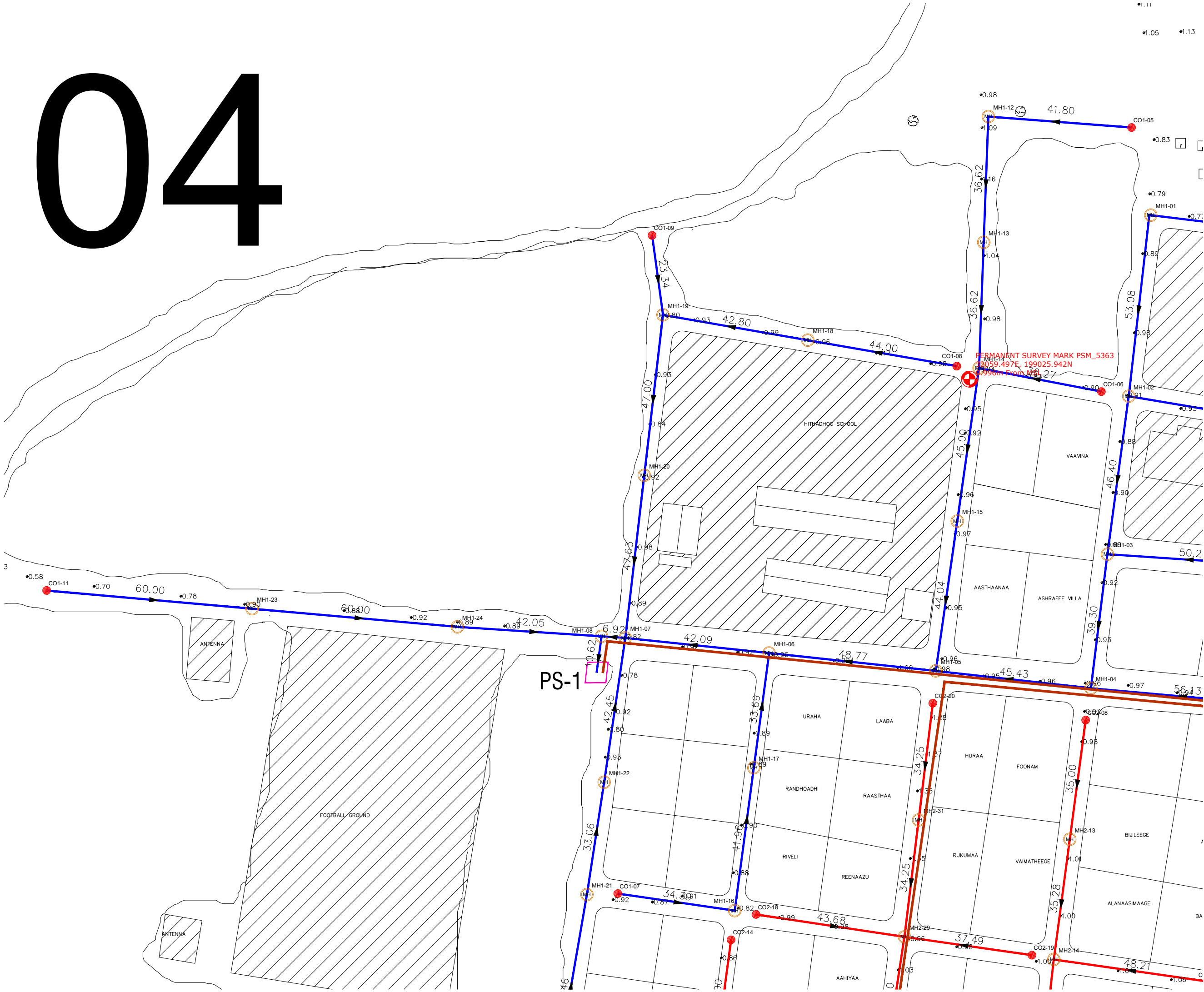
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A-(3)

04



Legend

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- 160mm Ø uPVC PS3 Gravity Sewer Main (SN4, SDR41)
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- Legend**
- 160mm Ø uPVC PS1 Gravity Sewer Main (SN4, SDR41)
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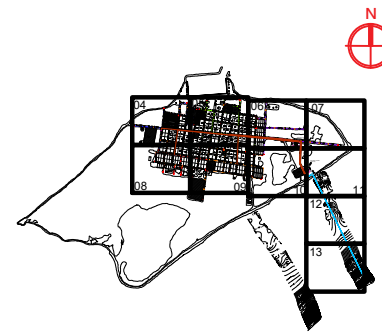
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Building Infrastructure Solutions

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06



Legend

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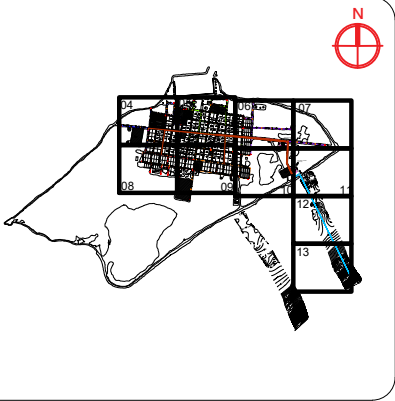


RO Primary Location
(1240 sqm)

PS-5

RO Plant
primary
location

07



Legend

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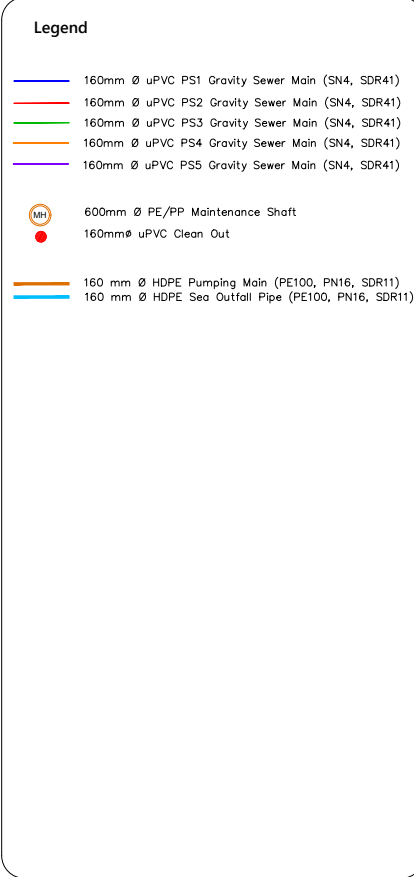
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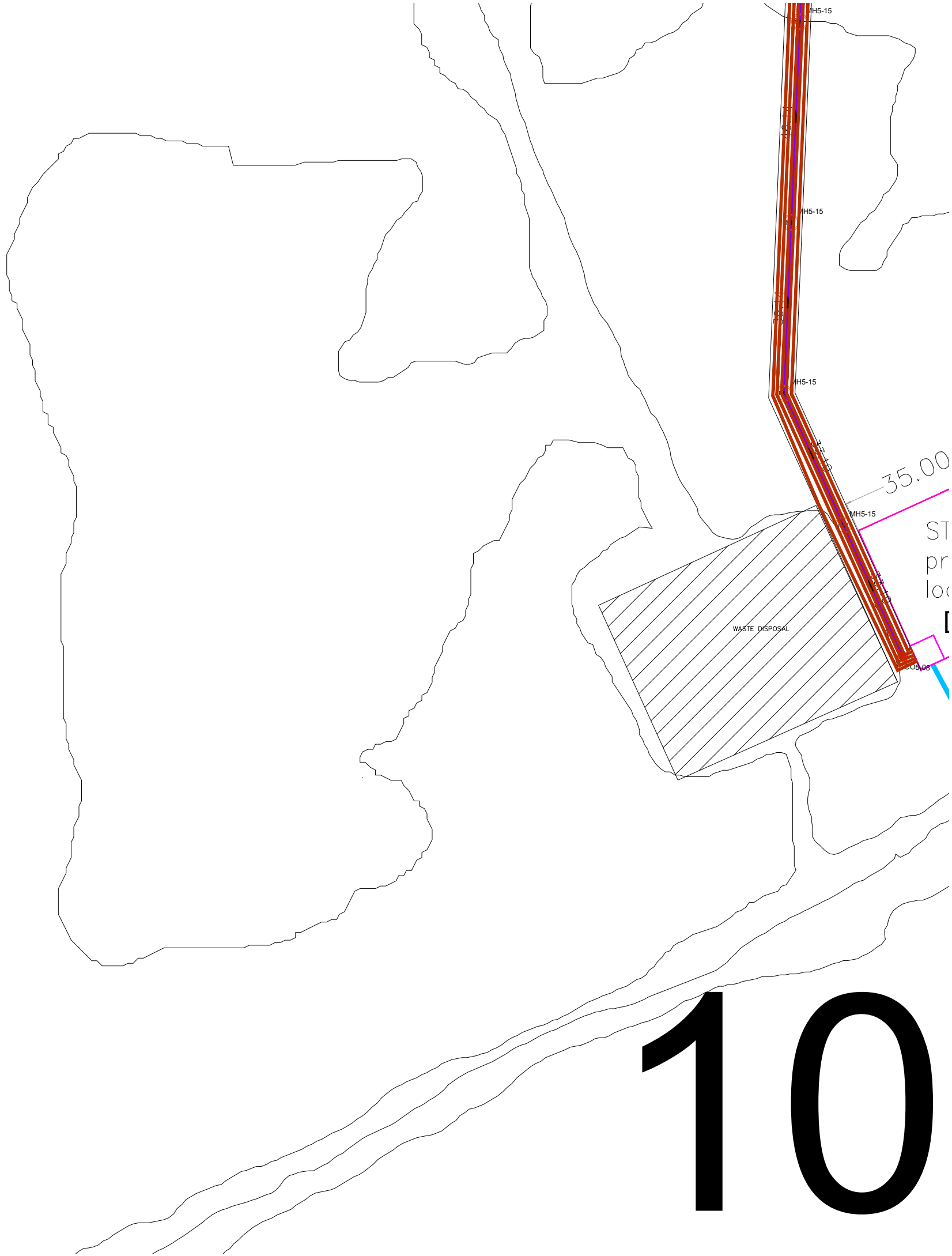
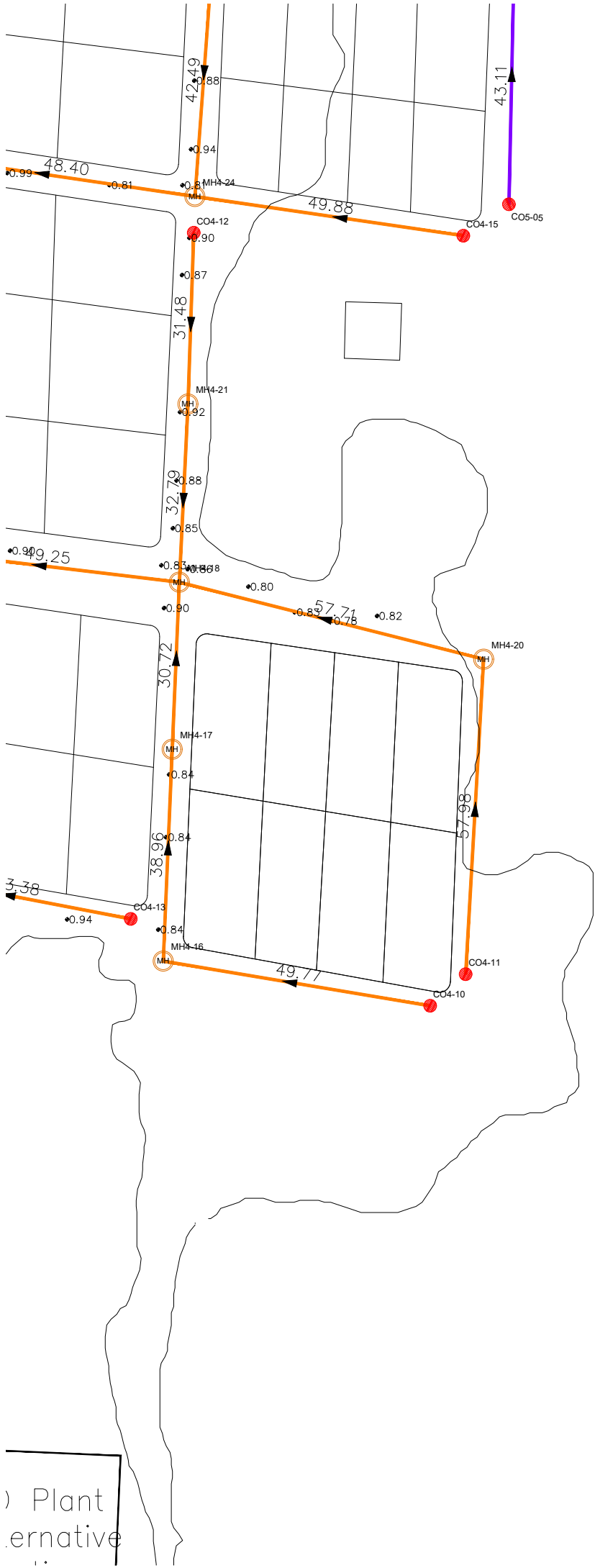
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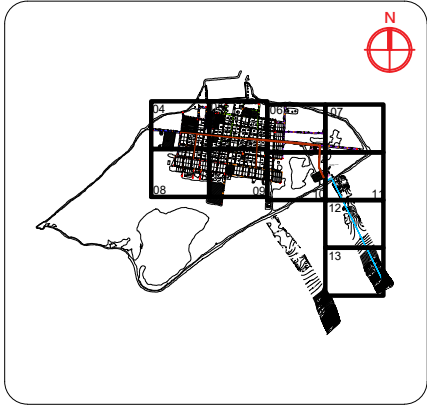
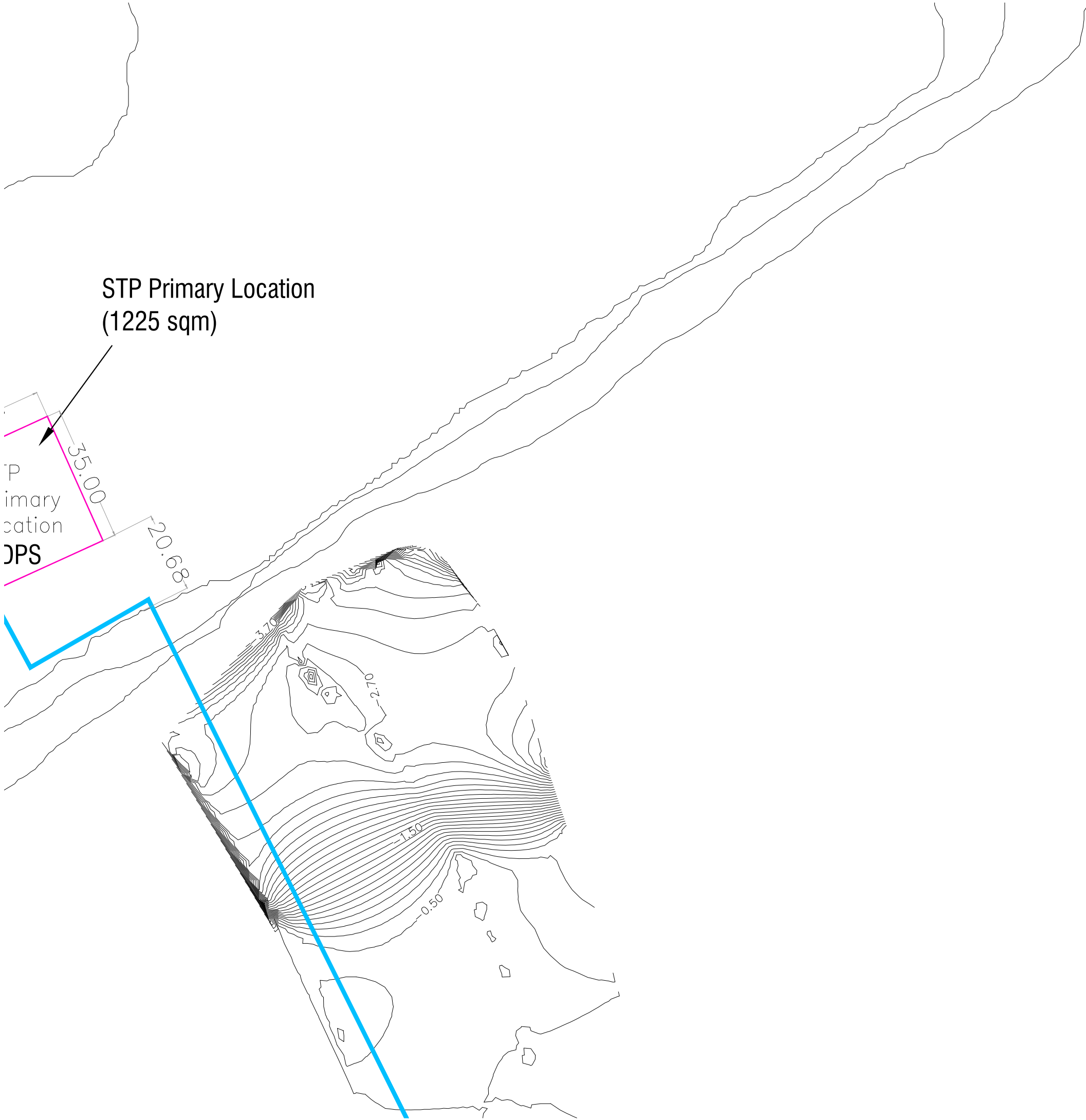
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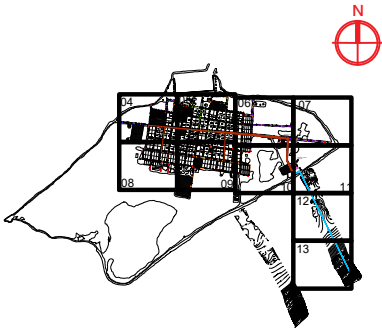
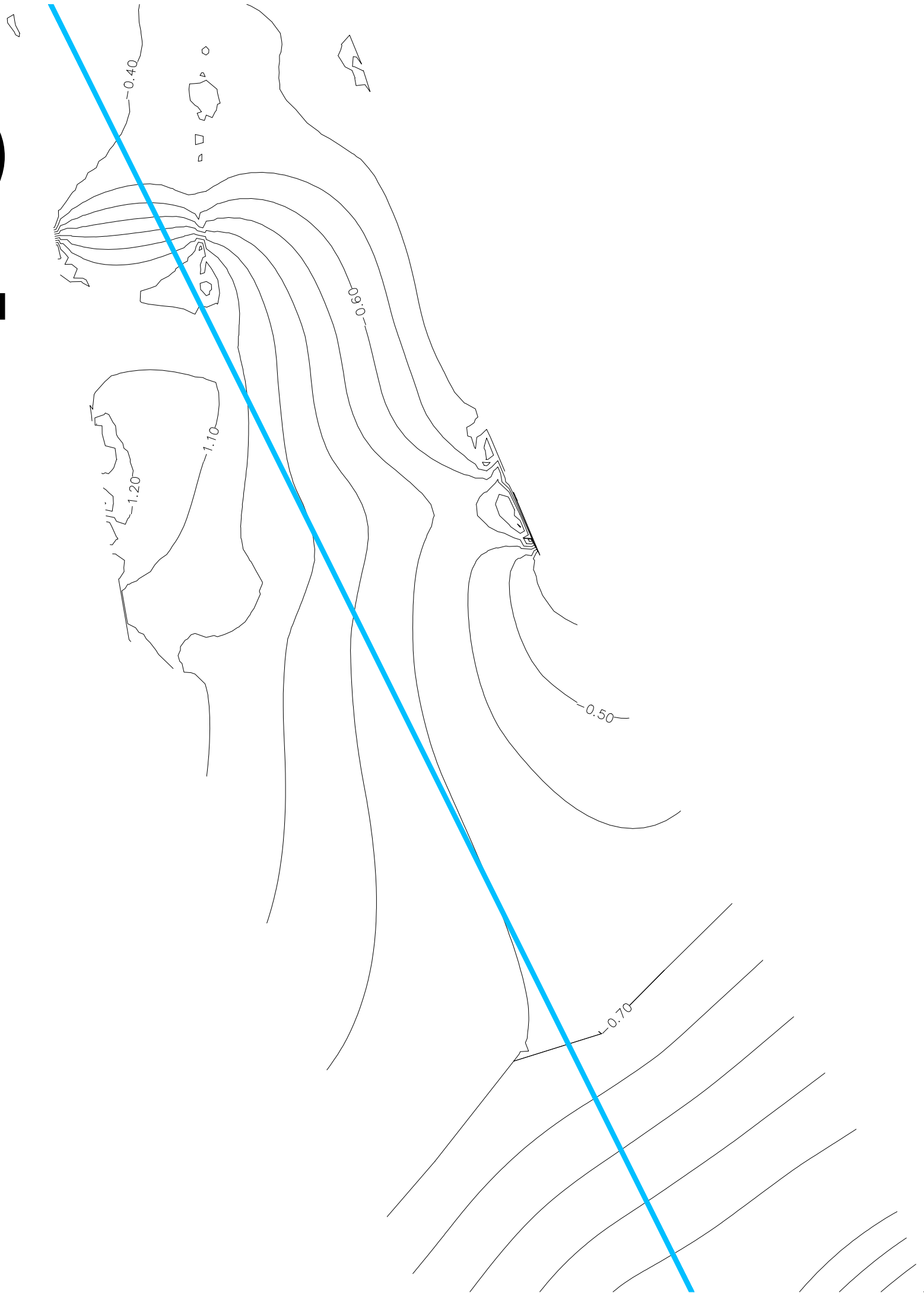
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Legend

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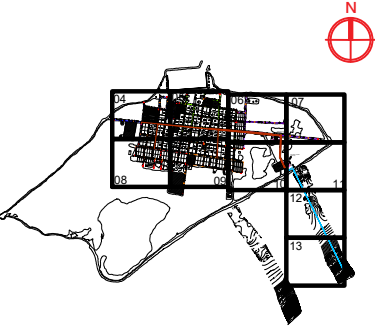
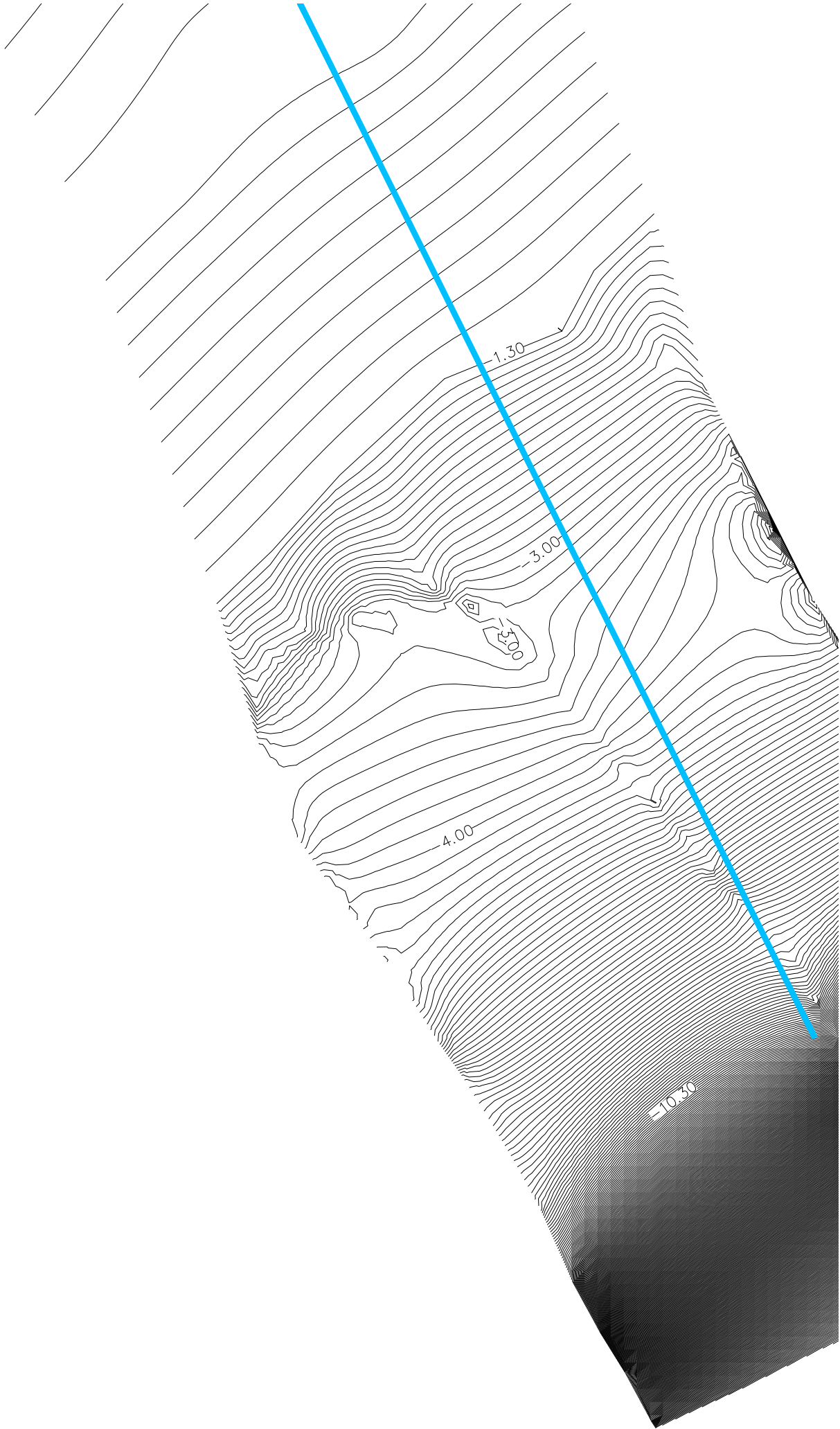
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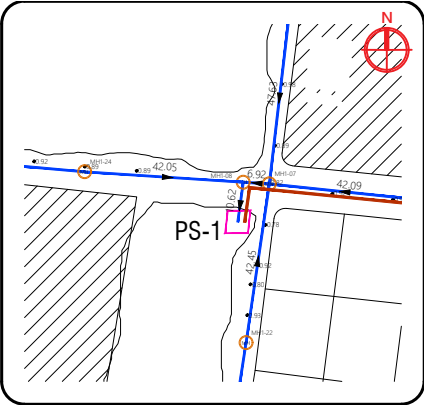
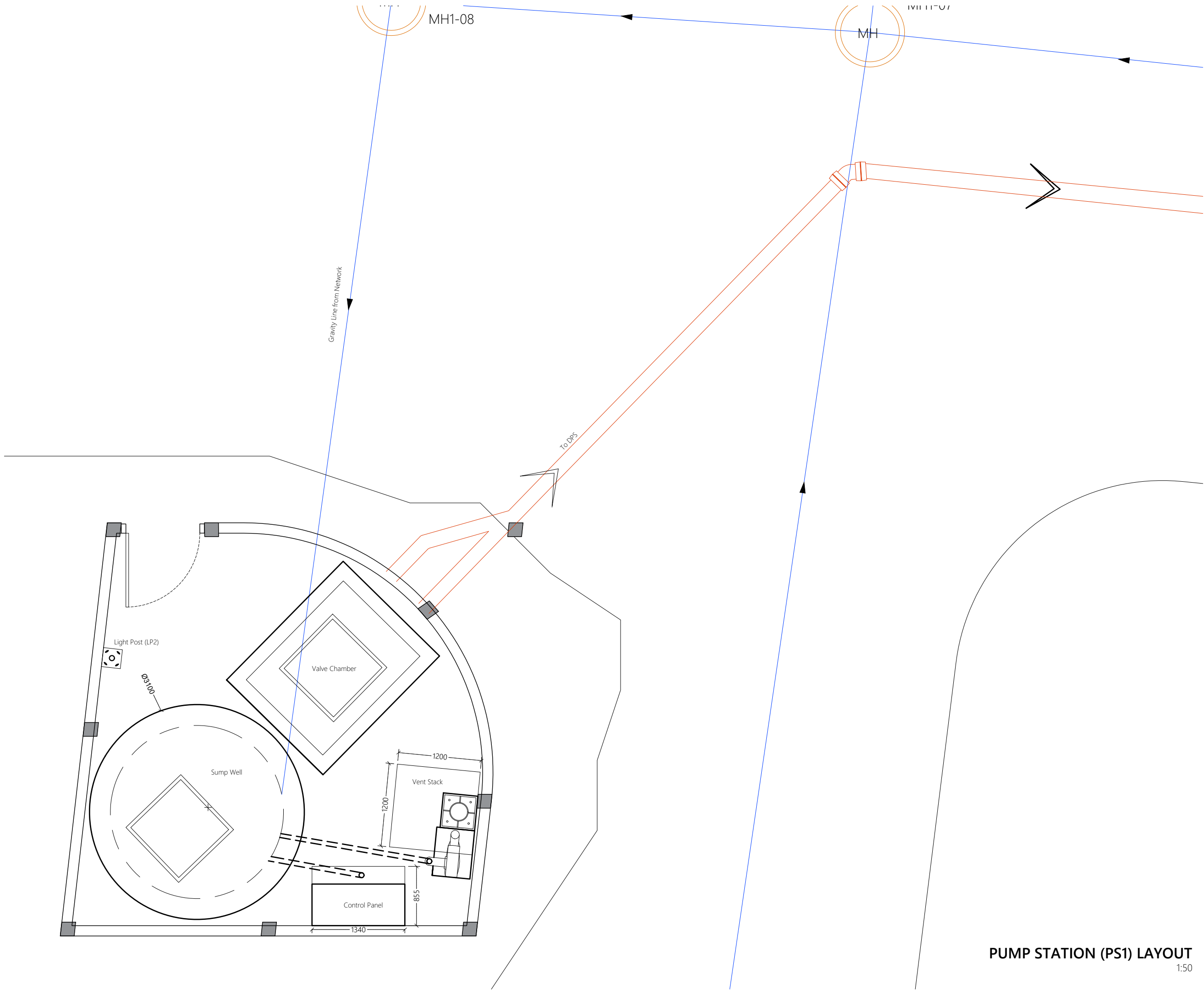
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Legend

160mm Ø uPVC PS1 Gravity Sewer Main (SN4, SDR41)

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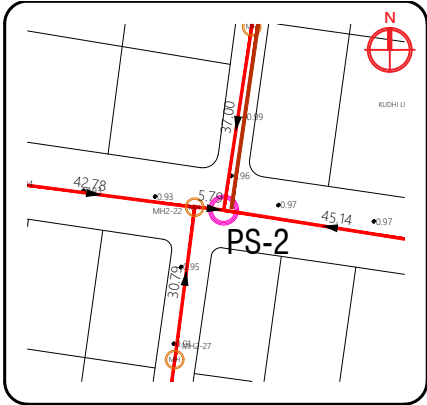
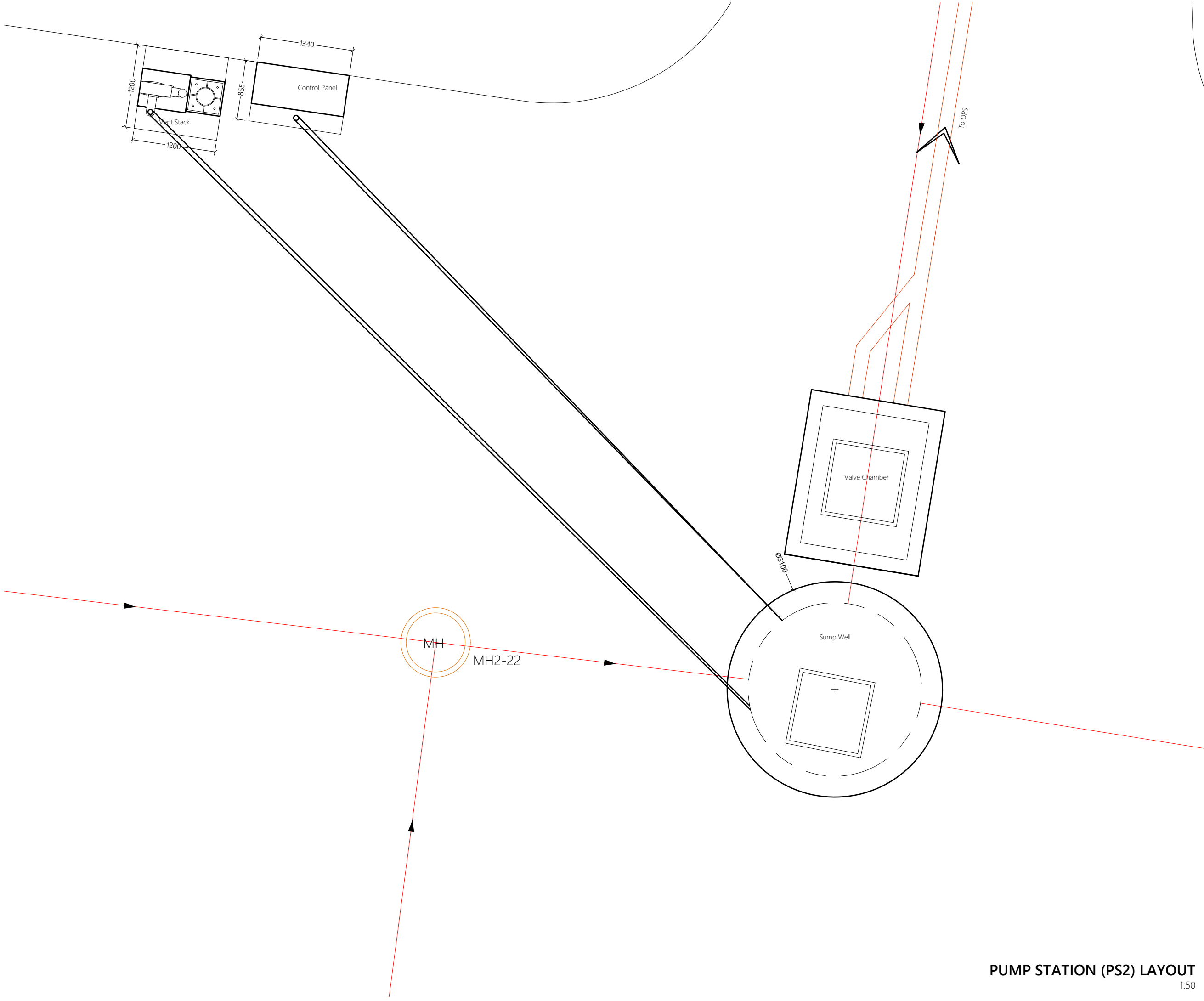
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W-(1)

PUMP STATION (PS1) LAYOUT
1:50



Legend

160mm Ø uPVC PS2 Gravity Sewer Main (SN4, SDR41)

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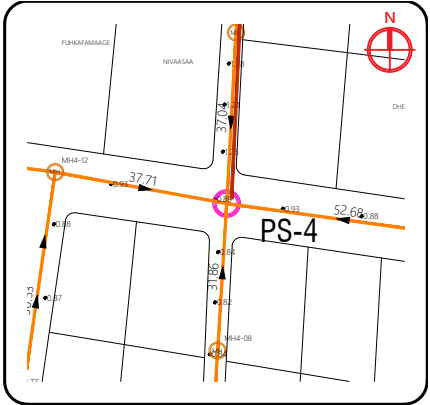
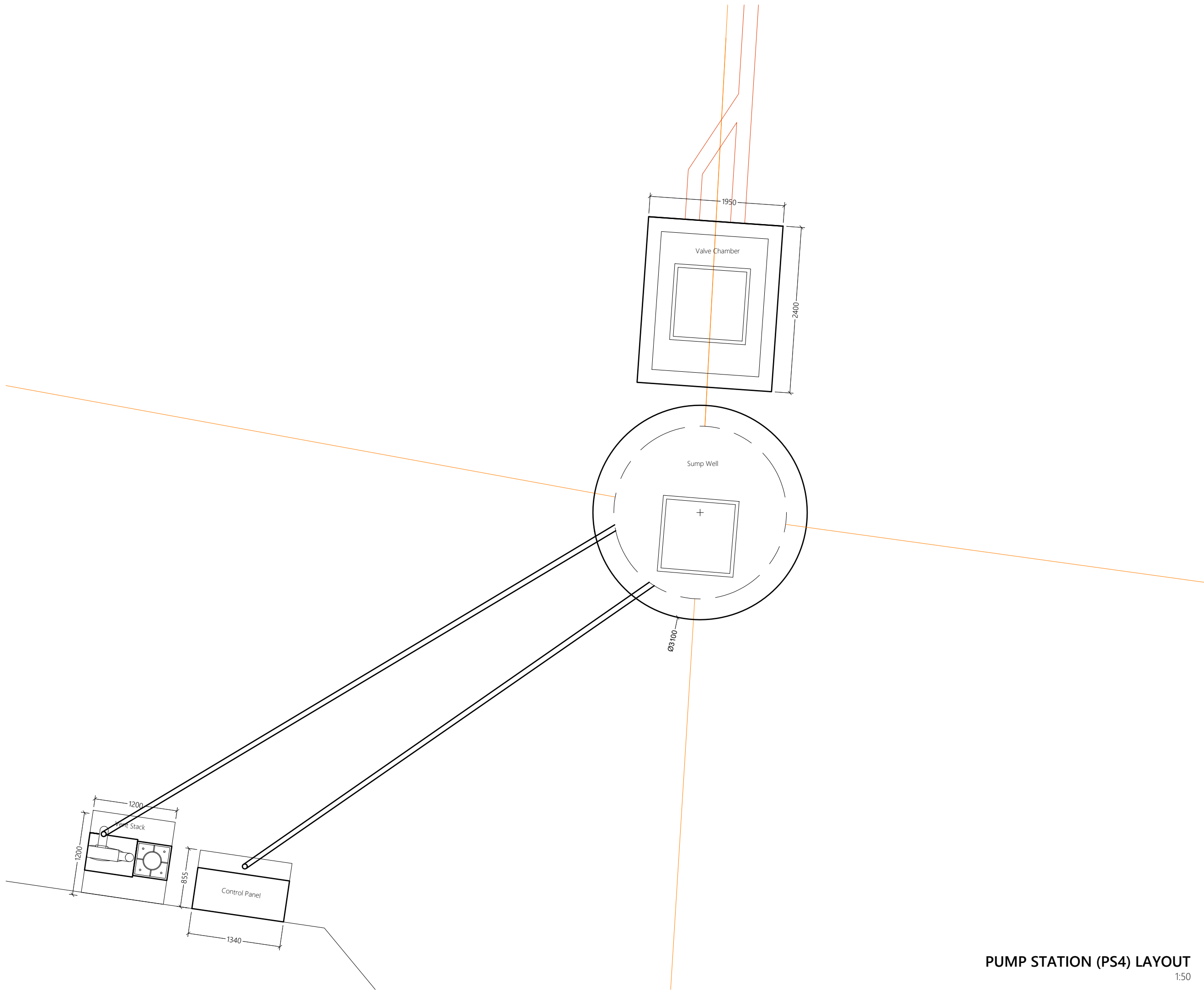
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Designed: F.I.A. Approved: I.W.

Date: Sep 2020 SCALE (A3): 1:50

Project No: EP-WS/2019/06

Rev: Page: **W-(2)**



Legend


160mm Ø uPVC PS4 Gravity Sewer Main (SN4, SDR41)

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.


Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 7 islands, Maldives - Package 6

Sub Title:
Sewerage System in L. Hithadhoo

Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives



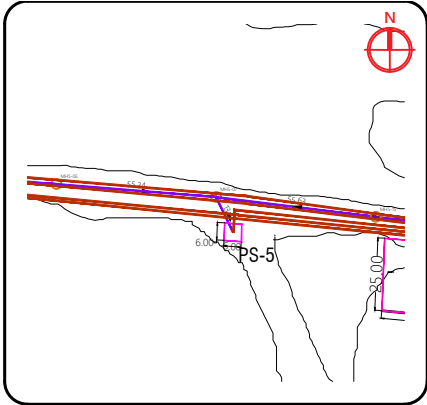
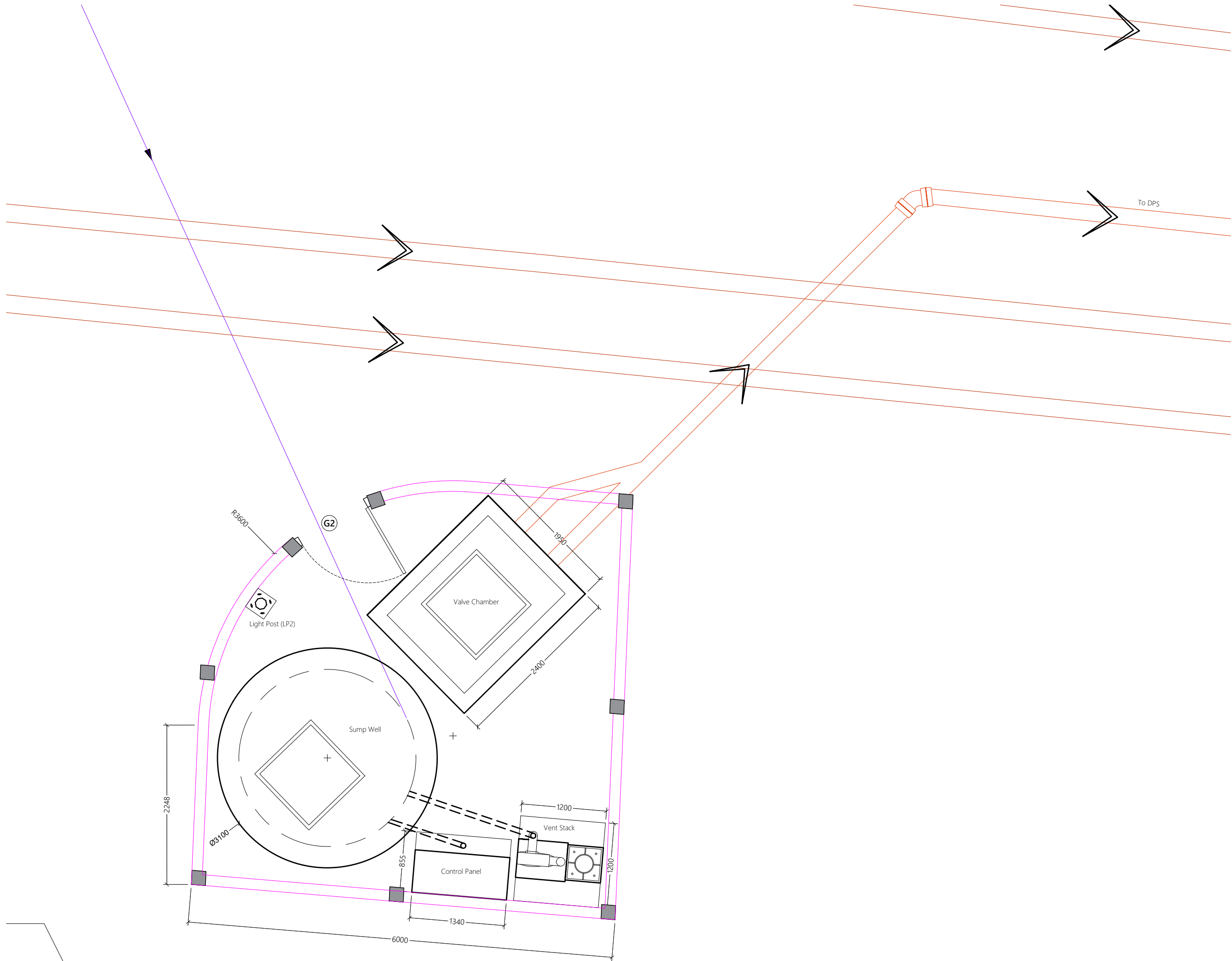
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Maldivian Infrastructure Development

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Project No: EP-WS/2019/06	
Rev:	Page: W-(24)

PUMP STATION (PS4) LAYOUT
1:50



Legend

160mm Ø uPVC PSS Gravity Sewer Main (SN4, SDR41)

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 7 islands, Maldives - Package 6

Sub Title:
Sewerage System in L. Hithadhoo

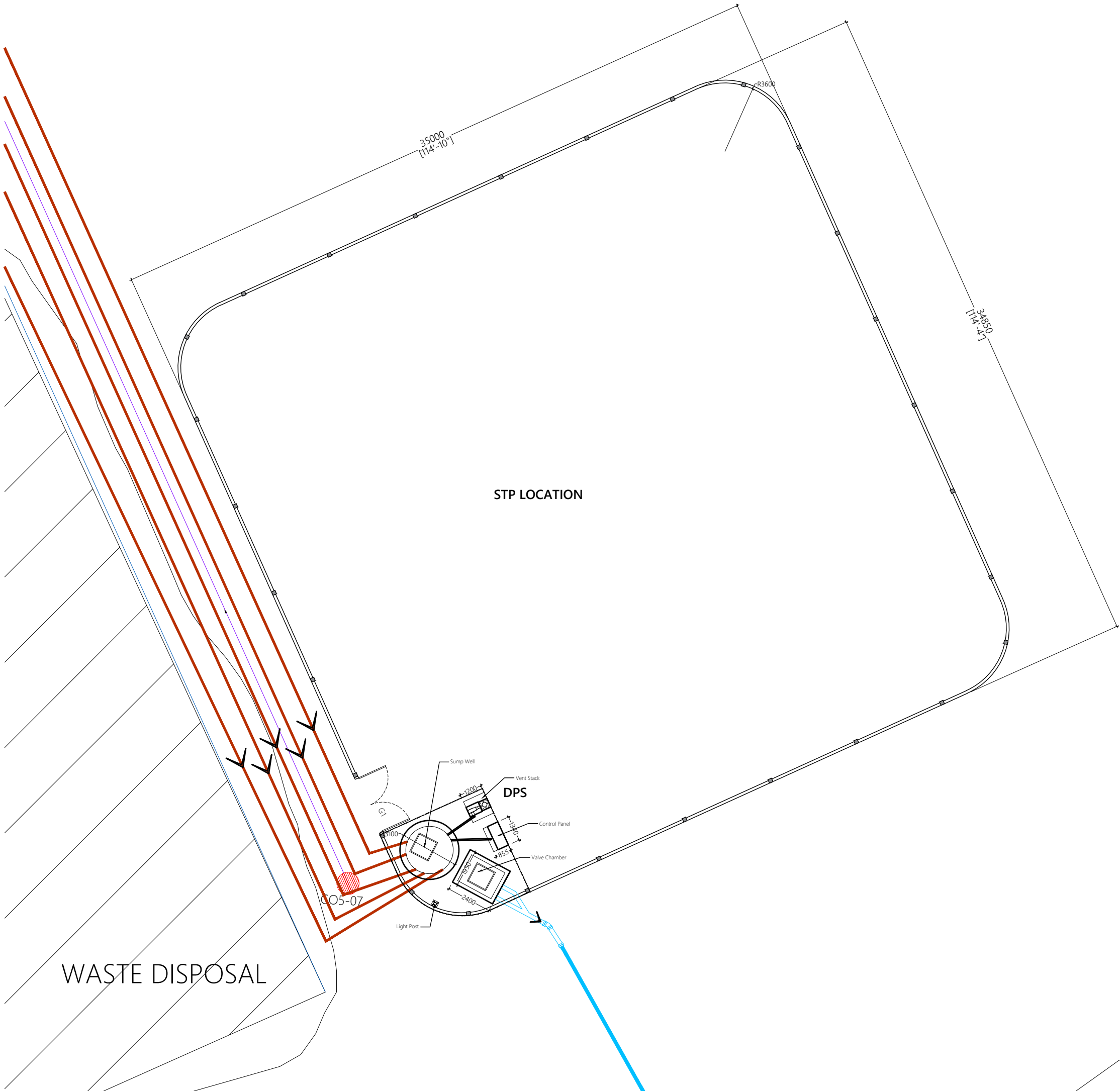
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PUMP STATION (PS5) LAYOUT
1:50



WASTE DISPOSAL

STP LOCATION

DPS

CO5-07

STP/DPS LAYOUT
1:200



Legend

- 160mm Ø uPVC Gravity Sewer Main (SN4, SDR41)
- 110 mm Ø HDPE Pumping Main (PE100, PN16, SDR11)
- 160 mm Ø HDPE Sea Outfall Pipe (PE100, PN16, SDR11)

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 7 Islands, Maldives - Package 6

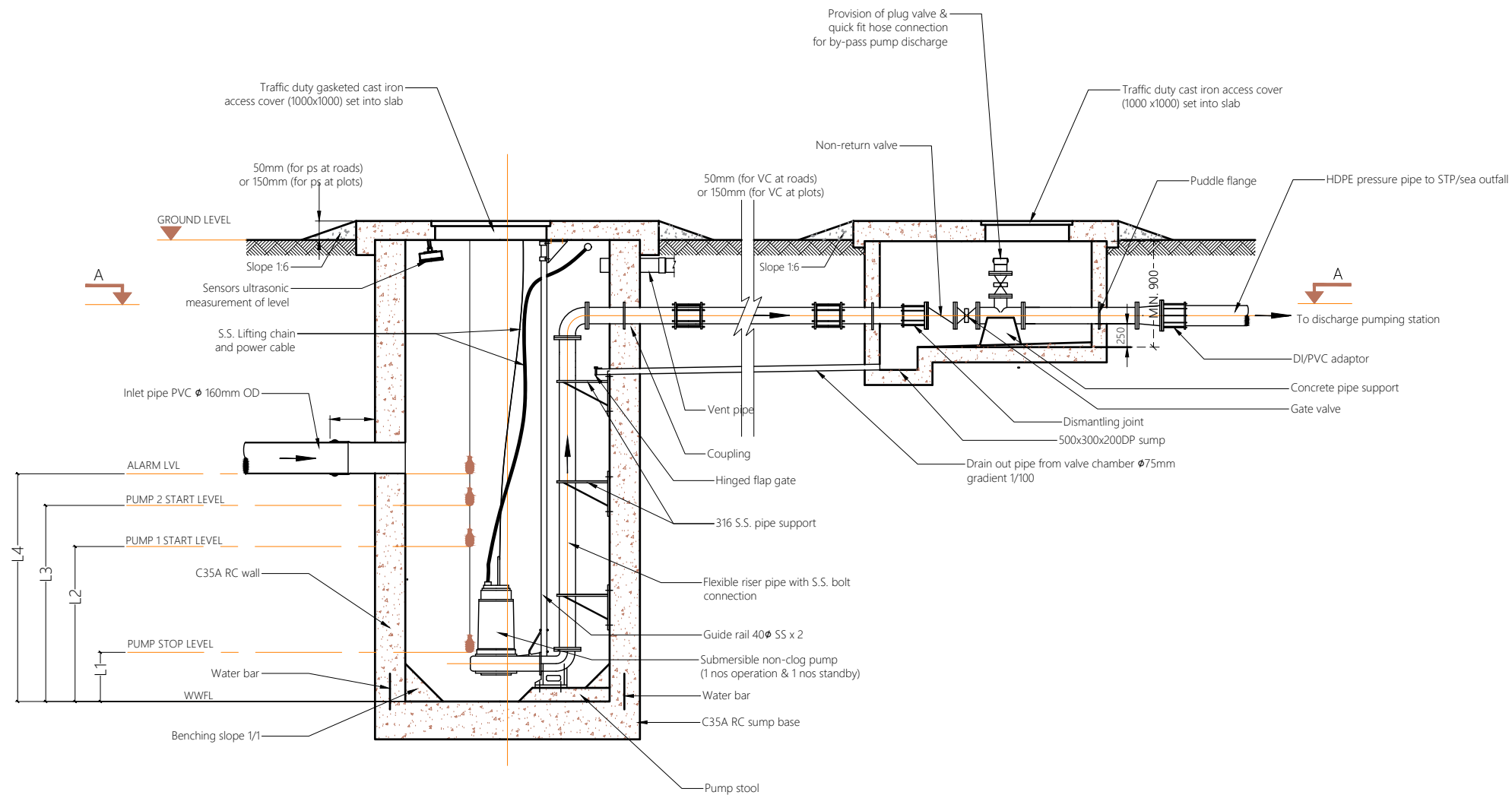
Sub Title:
Sewerage System in L. Hithadhoo

Client:
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Project No: EP-WS/2019/06	Page: W-(4)



PUMP STATION DESIGN DETAILS

(15 YEARS)

Pump Station	Diameter (Ø)	Depth (D)	Inlet Depth	Pump Capacity	Head	Levels			
						L1	L2	L3	L4
PS1	2.5m	2.90m	1.962m	1.6 l/s	17.8 m	0.300m	0.347m	0.497m	0.647m
PS2	2.5m	2.90m	1.848m, 1.565m, 1.273m	2.0 l/s	18.4 m	0.300m	0.361m	0.511m	0.661m
PS3	2.5m	3.00m	2.178m, 2.145m, 2.259m	3.1 l/s	12.1 m	0.300m	0.396m	0.546m	0.696m
PS4	2.5m	3.00m	2.255m, 1.533m, 1.696m, 1.736m	2.2 l/s	13.7 m	0.300m	0.366m	0.516m	0.666m
PS5	2.5m	3.00m	2.242m	1.4 l/s	7.4 m	0.300m	0.343m	0.493m	0.643m
DPS	2.5m	3.00m	0.8m	10.2 l/s	27.3 m	0.300m	0.613m	0.763m	0.913m

PUMP STATION DETAILS - LONGITUDINAL SECTION
NTS



Legend

Notes:

- Pumps, pipe work, fittings and control panel shall be installed in accordance with manufacturers recommendations.
- Orientation of valve chamber pipework to suit location.
- All structural concrete shall be of grade C35A.
- All castings shall be done using sulphate resistant portland cement to BS 4027:1996.
- All structural reinforcement shall be epoxy coating of non-pre-stressed reinforcement to ASTM-A775/A775M.
- A cover of 75mm should be given for all reinforcements.
- Internal concrete surfaces to be coated with 5mm thickness of epoxy bonded glass fibre and finished with gel coat or 500 microns epoxy paint coating.
- External concrete surfaces to be painted with 3 coats of bitumen/rubber emulsion and protected by 500 micron polyethene.

- List of main instruments of pumping station:
1. Sewage pumps (1 duty & 1 standby)
 2. Power cable
 3. Auto-coupling with 40Ø SS guide rail
 4. Stainless steel (316) suspension chain
 5. Cable with float control and weight
 6. Discharge pipe
 7. Puddle flange
 8. Bitumen emulsion and 500 micron polythene sheet protection to external concrete surfaces
 9. Construction joint / water bars
 10. Manhole cover double seal ductile heavy duty cast iron / SS 316 cover
 11. Vent pipe with vent cowl

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 7 islands, Maldives - Package 6

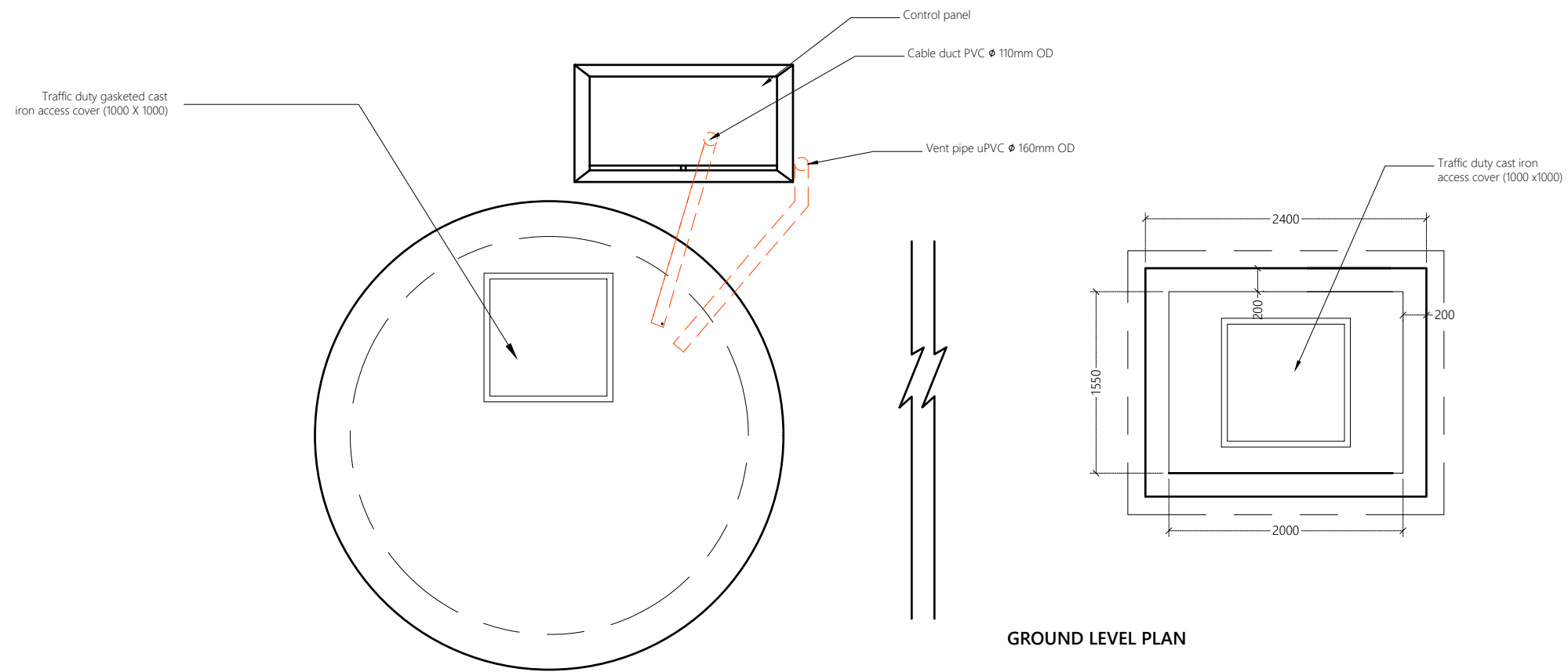
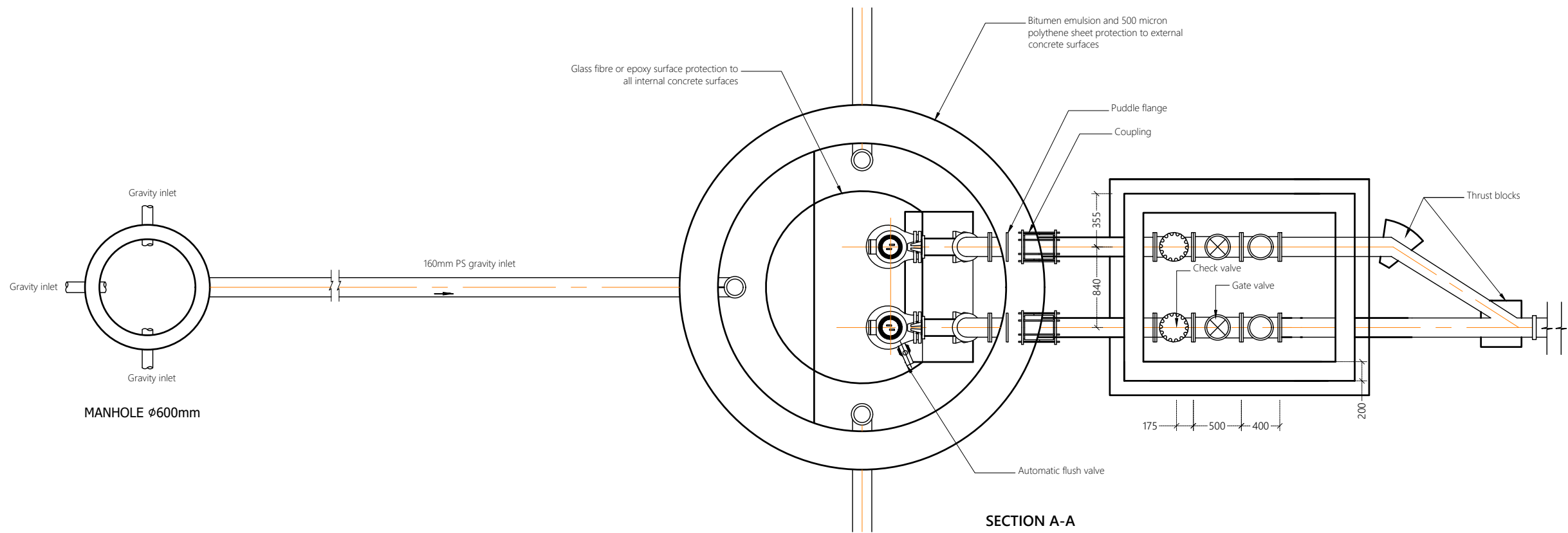
Sub Title:
Sewerage System in L. Hithadhoo

Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives

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Project No: EP-WS/2019/06	Page: W-(5)



PUMP STATION DETAILS - PLAN VIEW
NTS



Legend

Notes:

- Pumps, pipe work, fittings and control panel shall be installed in accordance with manufacturers recommendations.
- Orientation of valve chamber pipework to suit location.
- All structural concrete shall be of grade C35A.
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- List of main instruments of pumping station:
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 2. Power cable
 3. Auto-coupling with 400 SS guide rail
 4. Stainless steel (316) suspension chain
 5. Cable with float control and weight
 6. Discharge pipe
 7. Puddle flange
 8. Bitumen emulsion and 500 micron polythene sheet protection to external concrete surfaces
 9. Construction joint / water bars
 10. Manhole cover double seal ductile heavy duty cast iron / SS 316 cover
 11. Vent pipe with vent cowl

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 7 islands, Maldives - Package 6

Sub Title:
Sewerage System in L. Hithadhoo

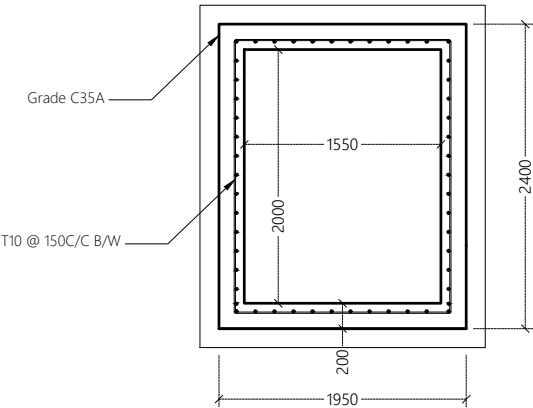
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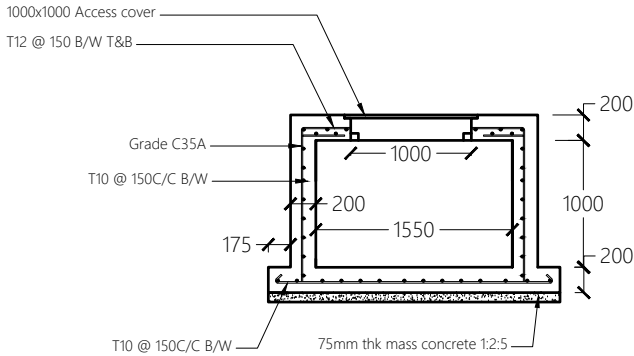
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Project No: EP-WS/2019/06	Page: W-(6)

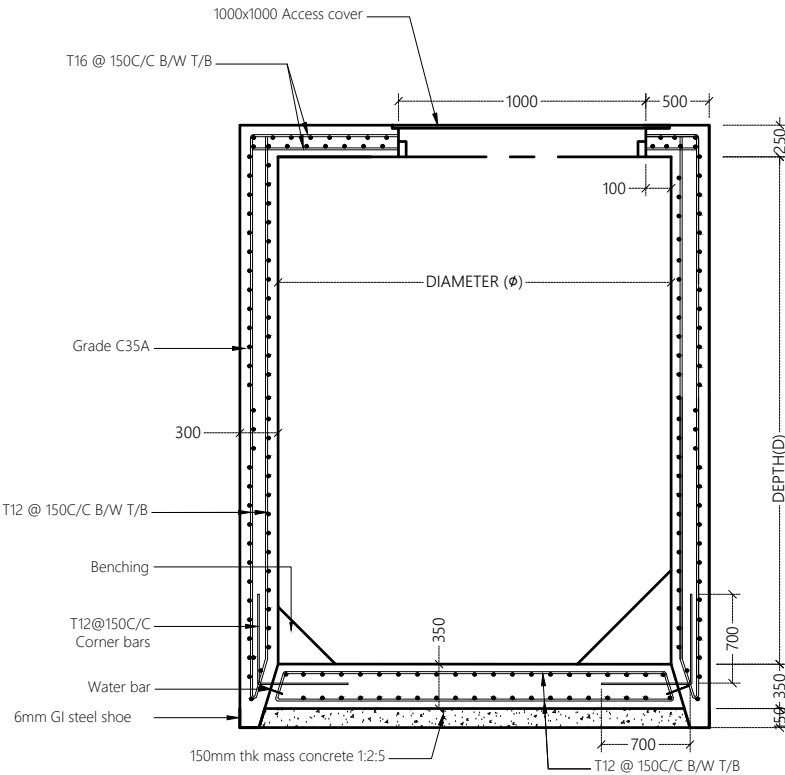
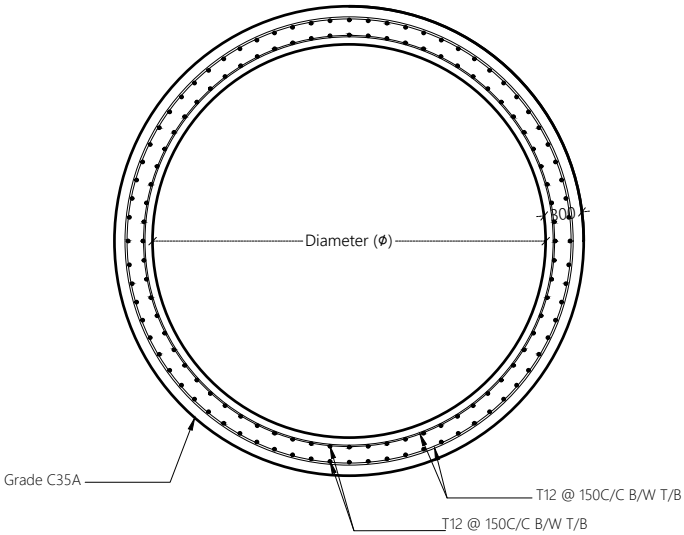
PLAN VIEW



SECTION



VALVE CHAMBER DETAIL



PUMP STATION DETAIL

Pump Station	Diameter (ϕ)	Depth (D)	Inlet Depth
PS1	2.5m	2.90m	1.962m
PS2	2.5m	2.90m	1.848m, 1.565m, 1.273m
PS3	2.5m	3.00m	2.178m, 2.145m, 2.259m
PS4	2.5m	3.00m	2.255m, 1.533m, 1.696m, 1.736m
PS5	2.5m	3.00m	2.242m
DPS	2.5m	3.00m	0.8m

PUMP STATION STRUCTURAL DETAILS

NTS



Legend

Notes:

- Pumps, pipe work, fittings and control panel shall be installed in accordance with manufacturers recommendations.
- Orientation of valve chamber pipework to suit location.
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4. Stainless steel (316) suspension chain
5. Cable with float control and weight
6. Discharge pipe
7. Puddle flange
8. Bitumen emulsion and 500 micron polythene sheet protection to external concrete surfaces
9. Construction joint / water bars
10. Manhole cover double seal ductile heavy duty cast iron / SS 316 cover
11. Vent pipe with vent cowl

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
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Sub Title:
Sewerage System in L. Hithadhoo

Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives

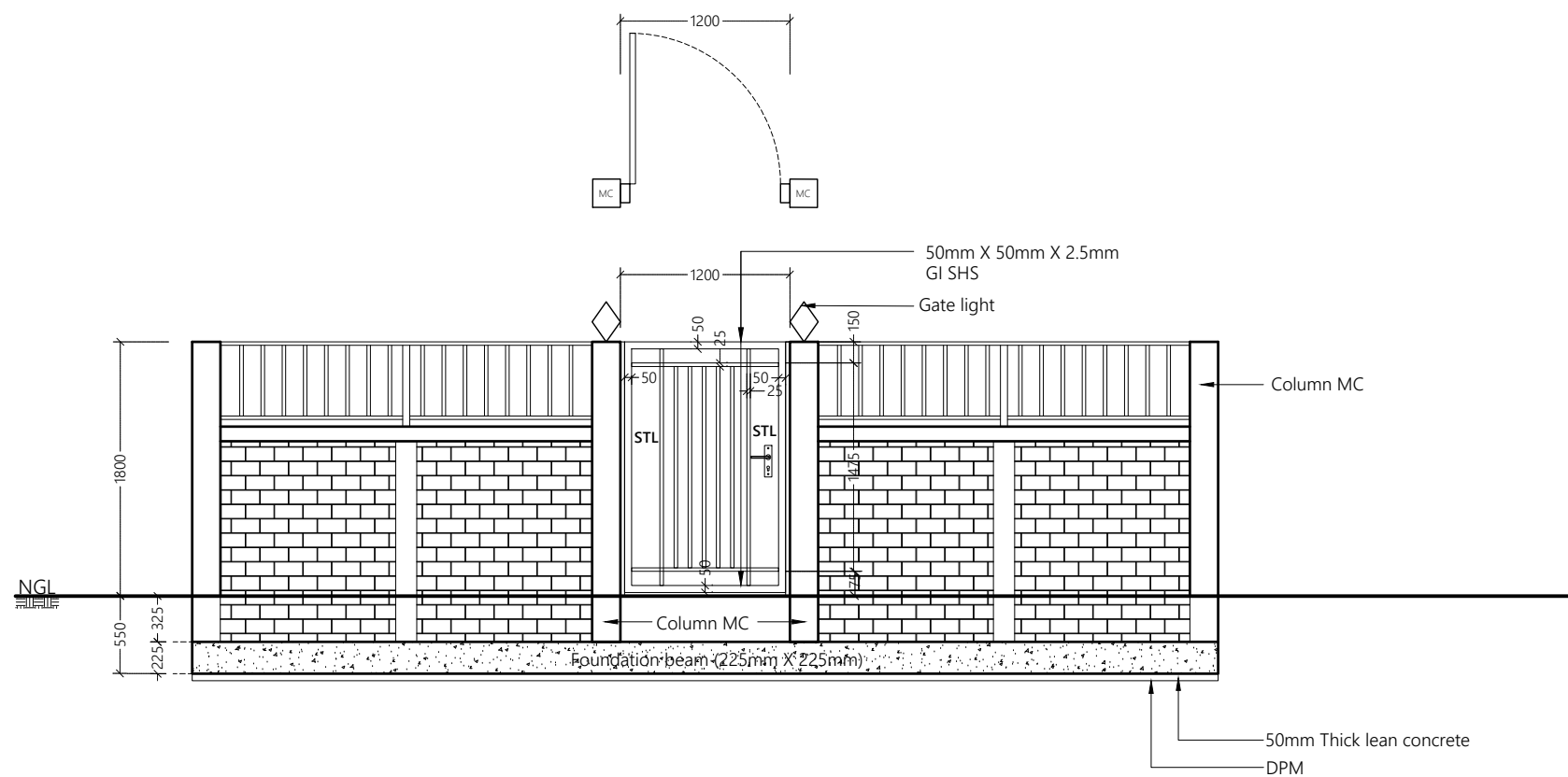
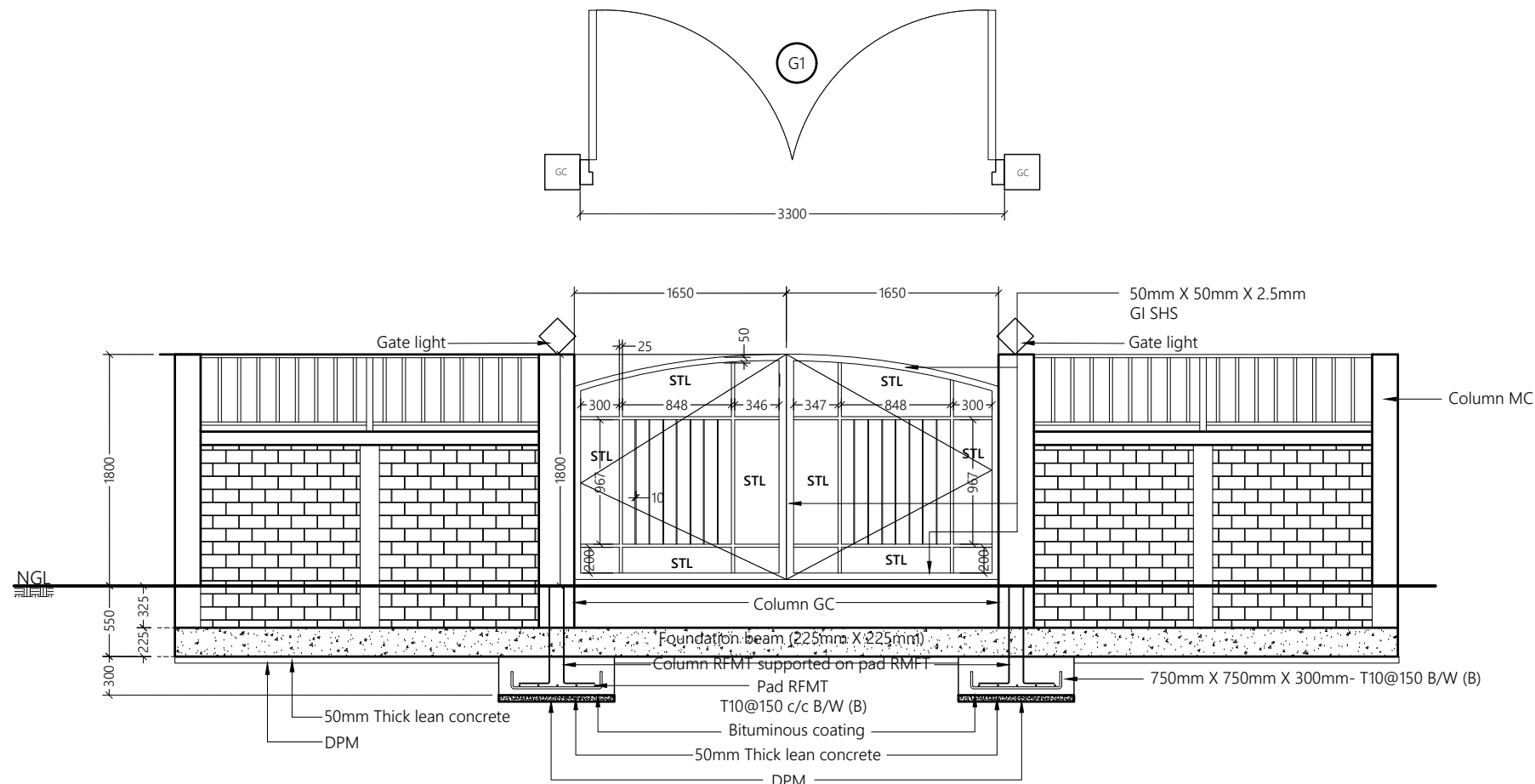


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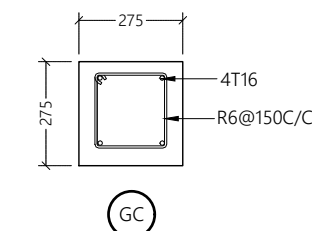
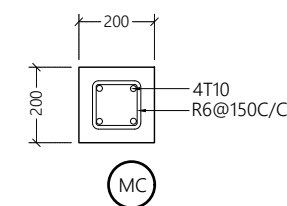


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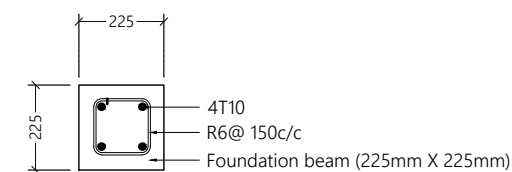
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Project No: EP-WS/2019/06	Rev: Page: W-(7)



GATE DETAILS
1:50



COLUMN DETAILS
1:20



FOUNDATION BEAM DETAIL
1:20



Legend

Notes:

- FRAME MATERIAL : Steel gate frame 2.5mm thick GI sections RHS
- PANEL MATERIAL : Steel frame with steel panels (STL) as shown on elevation view
- All steel members and GI SHS to be applied with 2 coats of anti-corrosive paint with epoxy finishing paint
- Allowance shall be made to fix pad lock in Gates

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 7 islands, Maldives - Package 6

Sub Title:
Sewerage System in L. Hithadhoo

Client:
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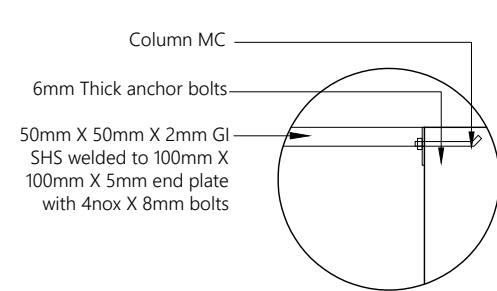
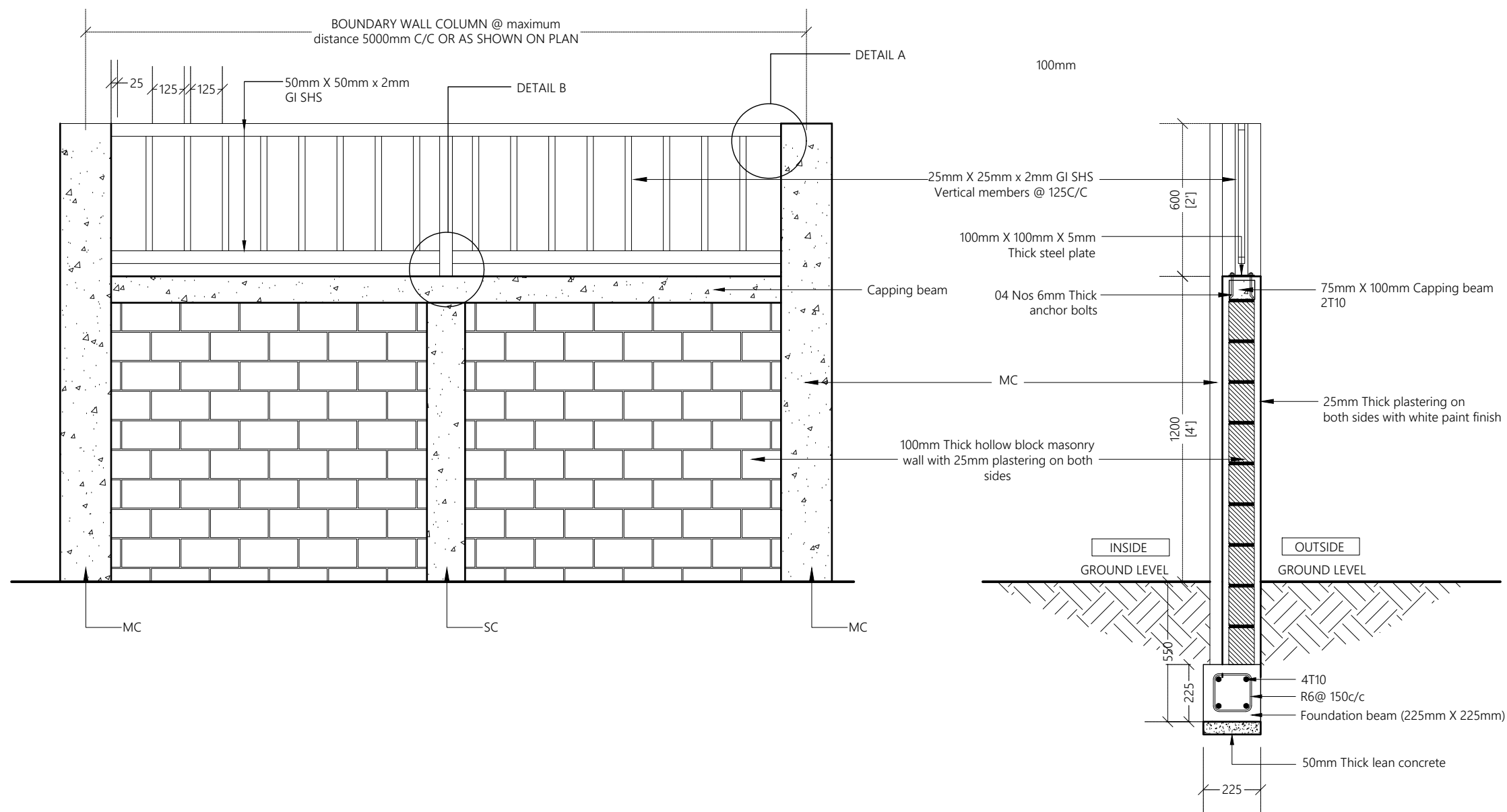
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Date: Sep 2020 SCALE (A3):

Project No: EP-WS/2019/06

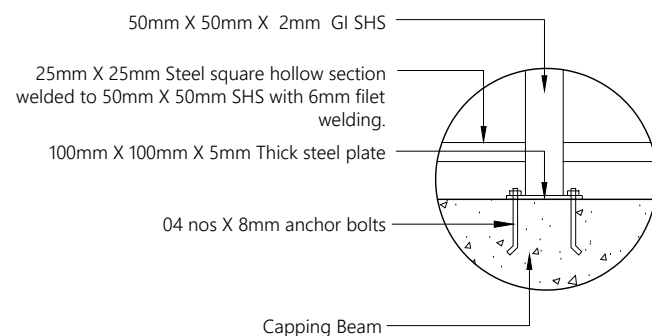
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W-(8)



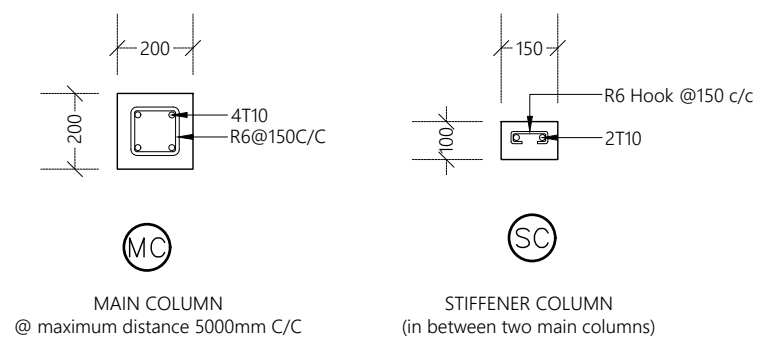
DETAIL A

1:10



DETAIL B

1:10



BOUNDARY WALL AND FENCING DETAILS

1:20



Legend

Notes:

- FRAME MATERIAL : Steel gate frame 2.5mm thick GI sections SHS
- All steel members and GI SHS to be applied with 2 coats of anti-corrosive paint with epoxy finishing paint
- Allowance shall be made to fix pad lock in Gates

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 7 Islands, Maldives - Package 6

Sub Title:
Sewerage System in L. Hithadhoo

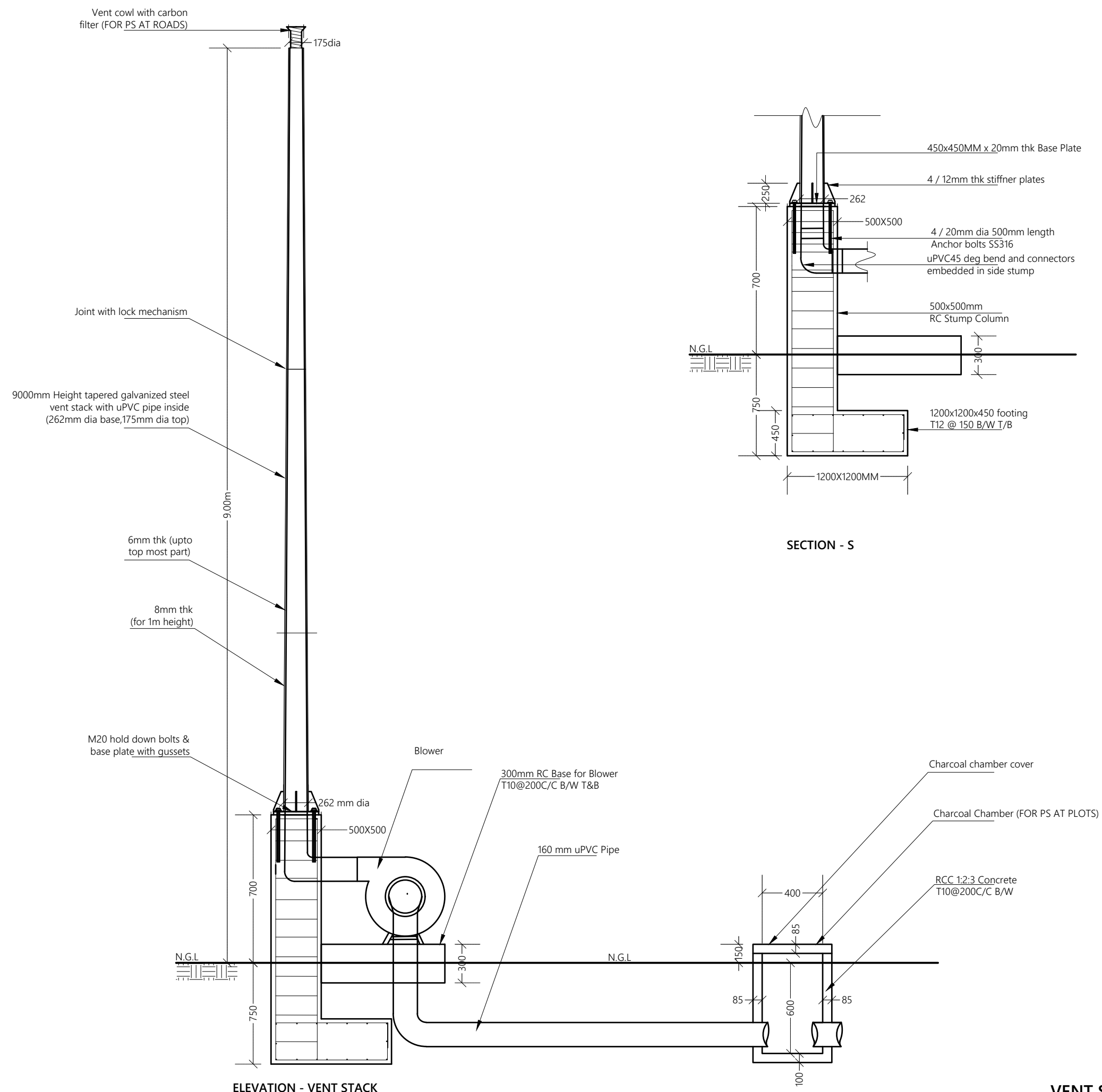
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Date: Sep 2020	SCALE (A3): 1:20
Project No: EP-WS/2019/06	Page: W-(9)

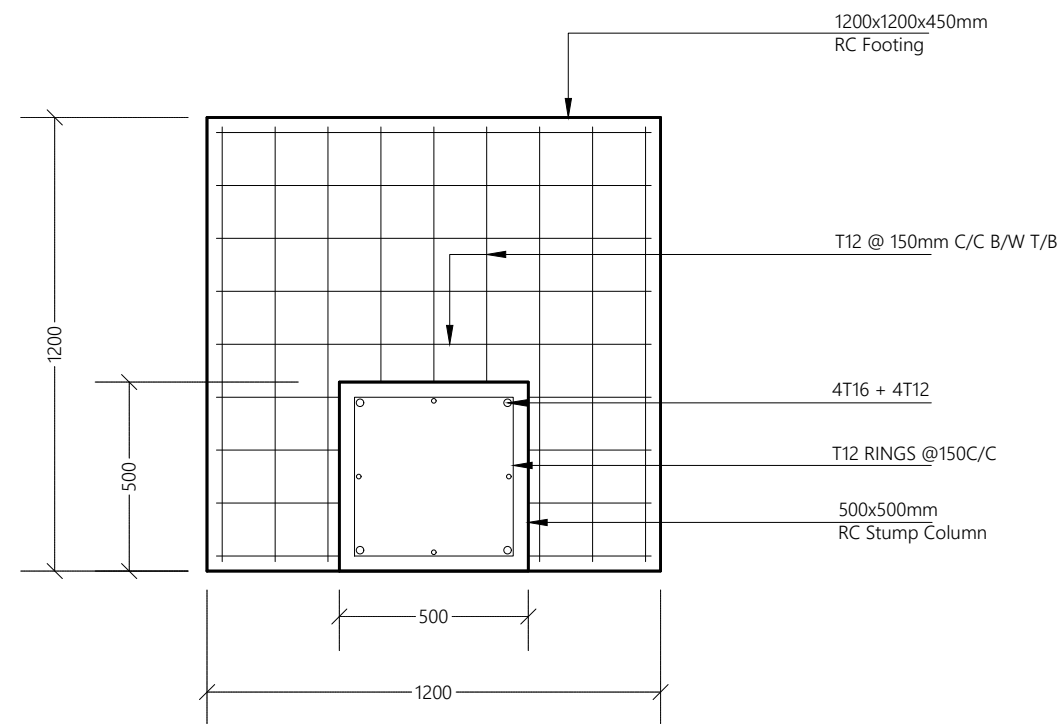


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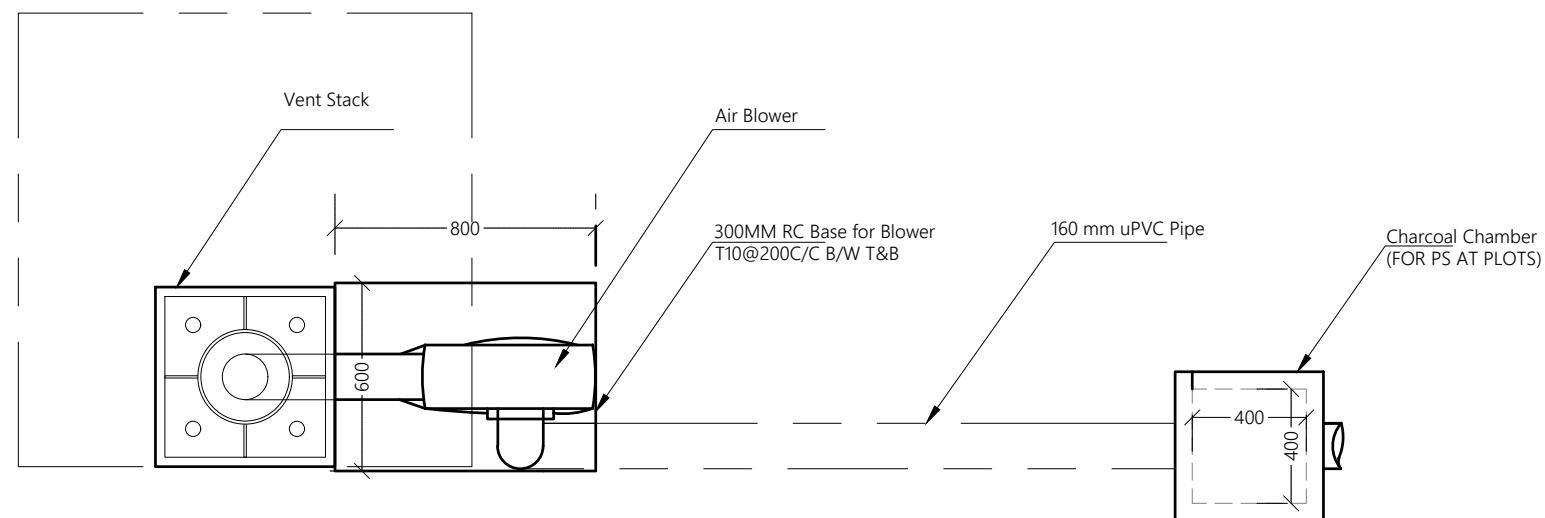
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Date: Sep 2020	SCALE (A3): NTS
Project No: EP-WS/2019/06	
Rev:	Page:

Page:
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FOOTING & STUMP DETAILS OF VENT STACK



AIR BLOWER DETAILS (Plan View)

VENT STACK AND AIR BLOWER DETAILS

NTS



Legend

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 7 islands, Maldives - Package 6

Sub Title:
Sewerage System in L. Hithadhoo

Client:
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Maldives Sri Lanka Sri Lanka Sri Lanka

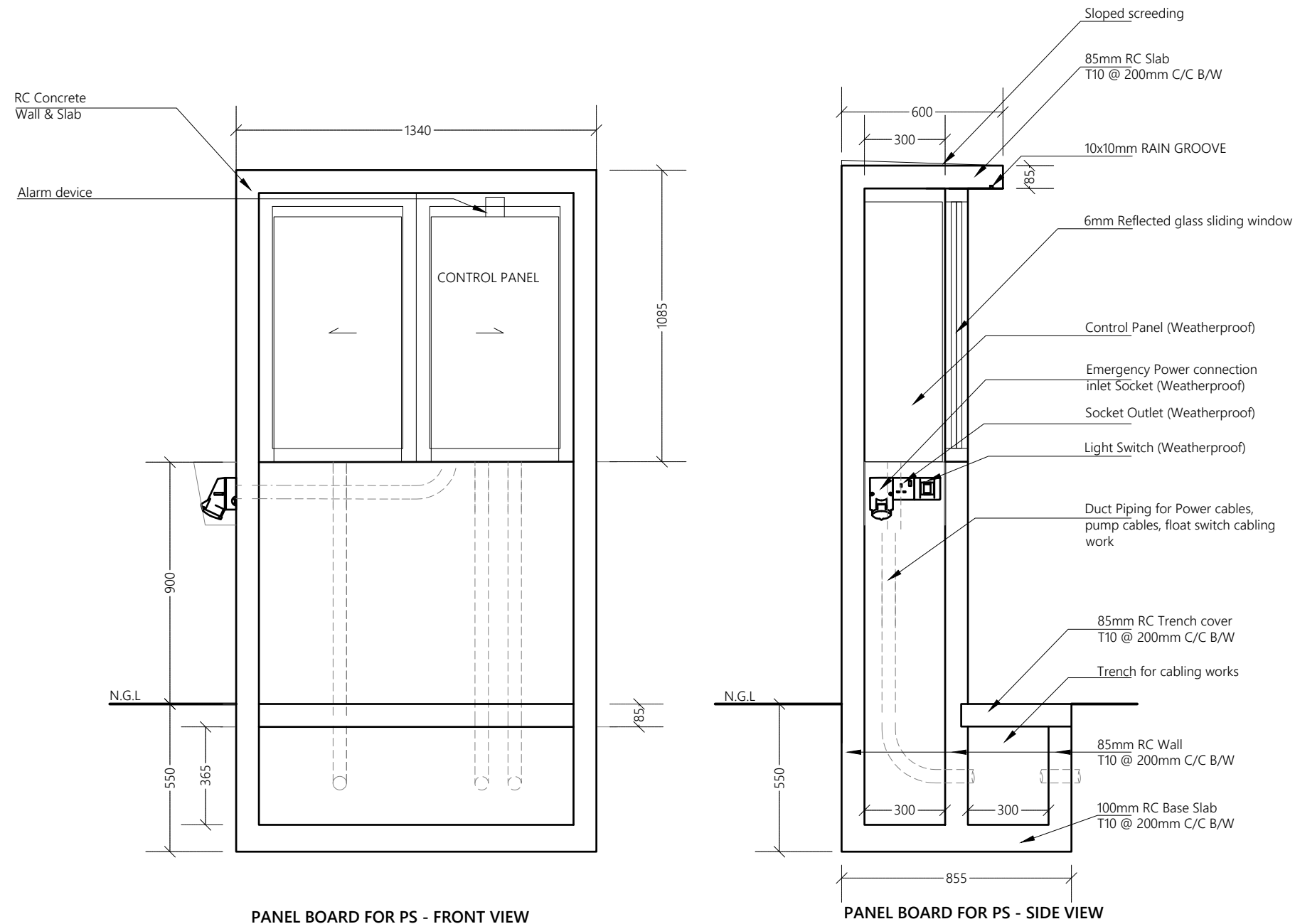
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Date: Sep 2020 SCALE (A3): NTS

Project No: EP-WS/2019/06

Rev: Page: W-(11)



CONTROL PANEL BOARD DETAILS

NTS



Legend

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Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 7 islands, Maldives - Package 6

Sub Title:
Sewerage System in L. Hithadhoo

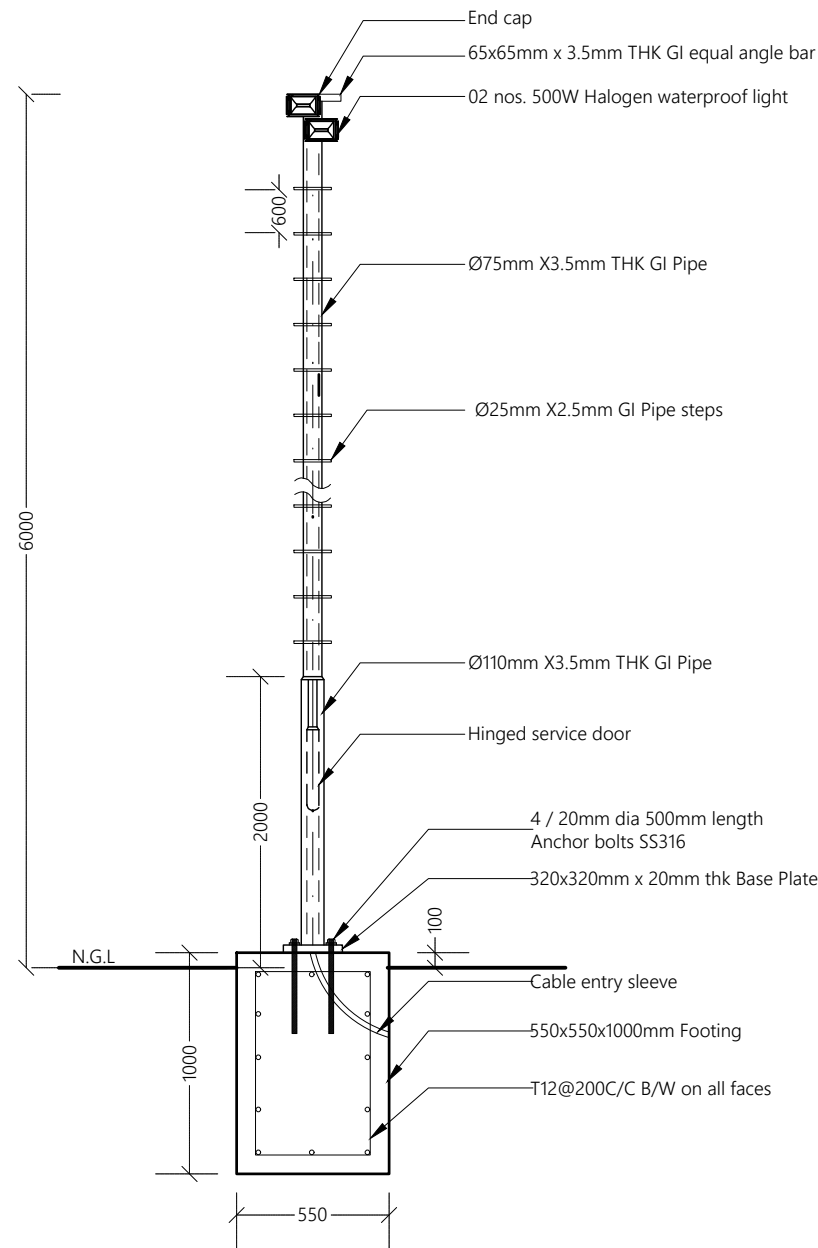
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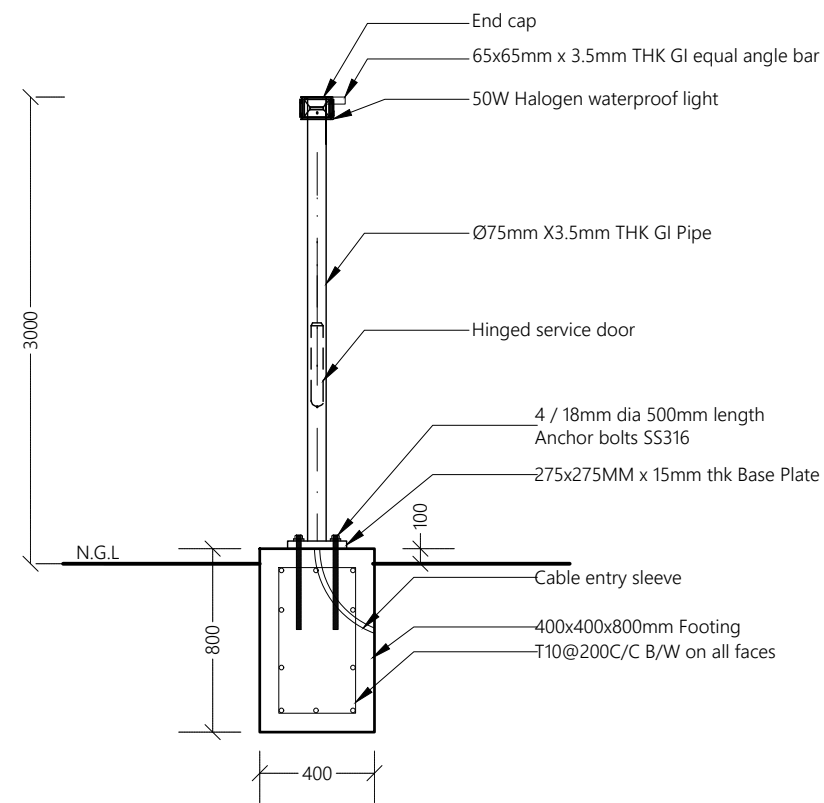
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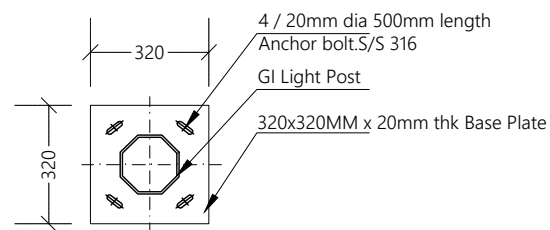
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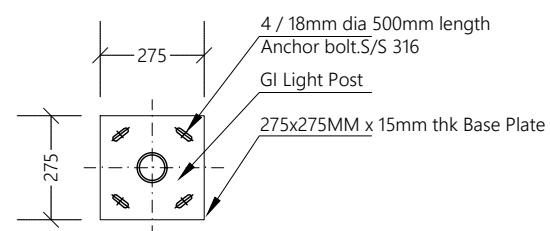
LIGHT POST DETAILS FOR STP COMPOUND (LP1)



LIGHT POST DETAILS FOR PUMP STATION (LP2)



BASE PLATE (LP1)



BASE PLATE (LP2)

NOTE:
 - CONCRETE COVER :50mm
 - All steel members and GI SHS to be applied with 2 coats of anti-corrosive paint with epoxy finishing paint

LIGHT POST DETAILS

NTS



Legend

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

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Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 7 islands, Maldives - Package 6

Sub Title:
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Client:
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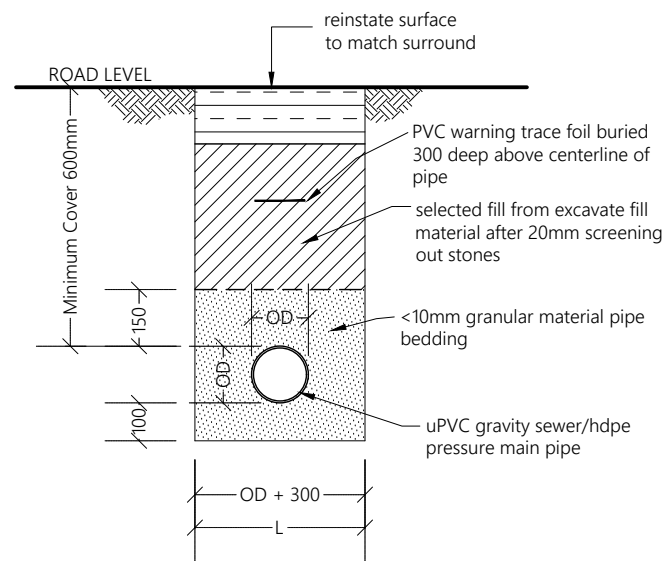
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Date: Sep 2020 SCALE (A3): NTS

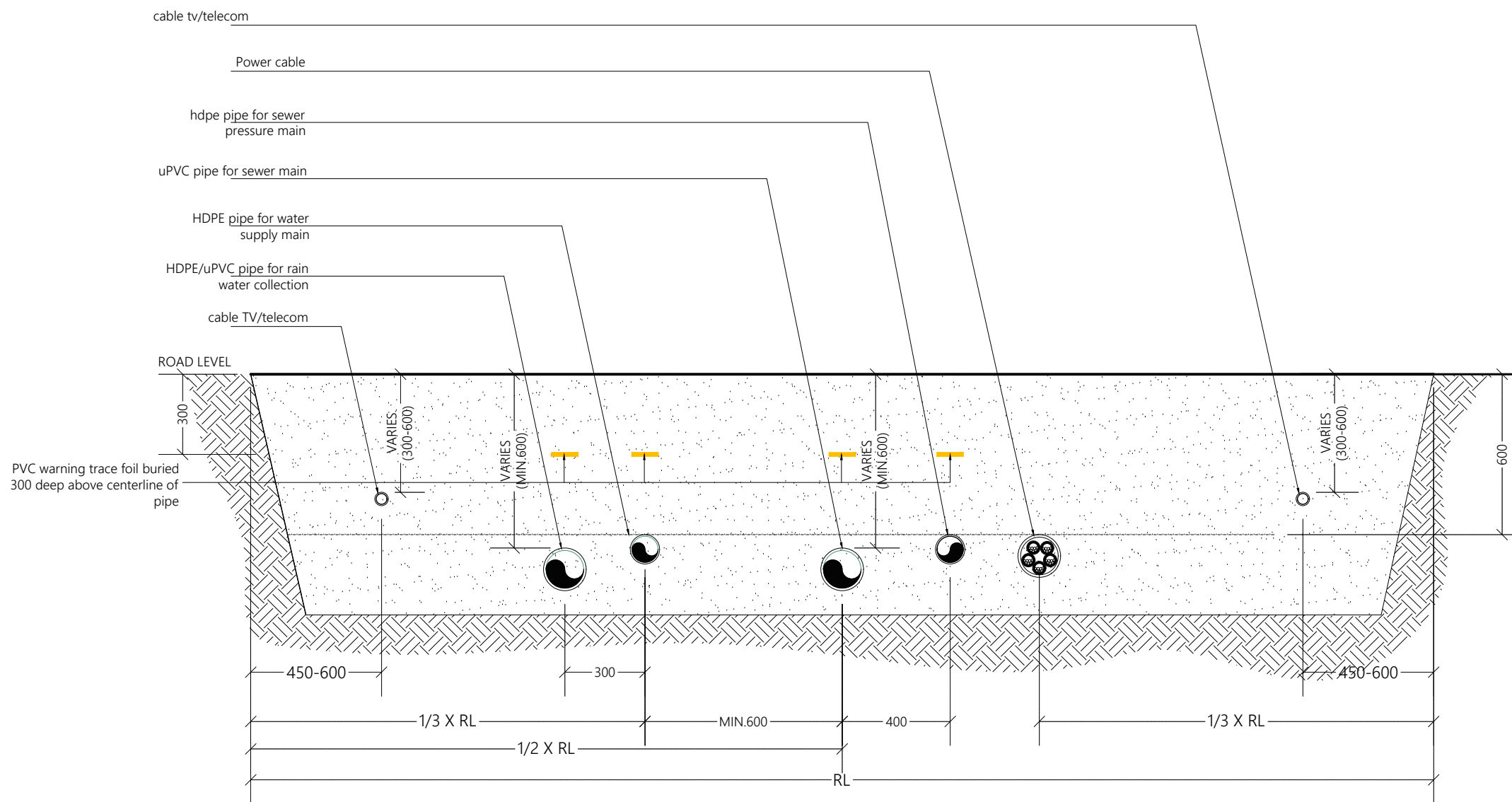
Project No: EP-WS/2019/06

Rev: Page:

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TRENCH & BEDDING DETAILS



TYPICAL ROAD SECTION

TRENCH AND BEDDING DETAILS

1:20

Legend

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Title:
**Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
7 Islands, Maldives - Package 6**

Sub Title:
Sewerage System in L. Hithadhoo

Client:
**Ministry of National Planning, Housing and
Infrastructure, Republic of Maldives**

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Drawn: F.I.A. Checked: M.S.S.

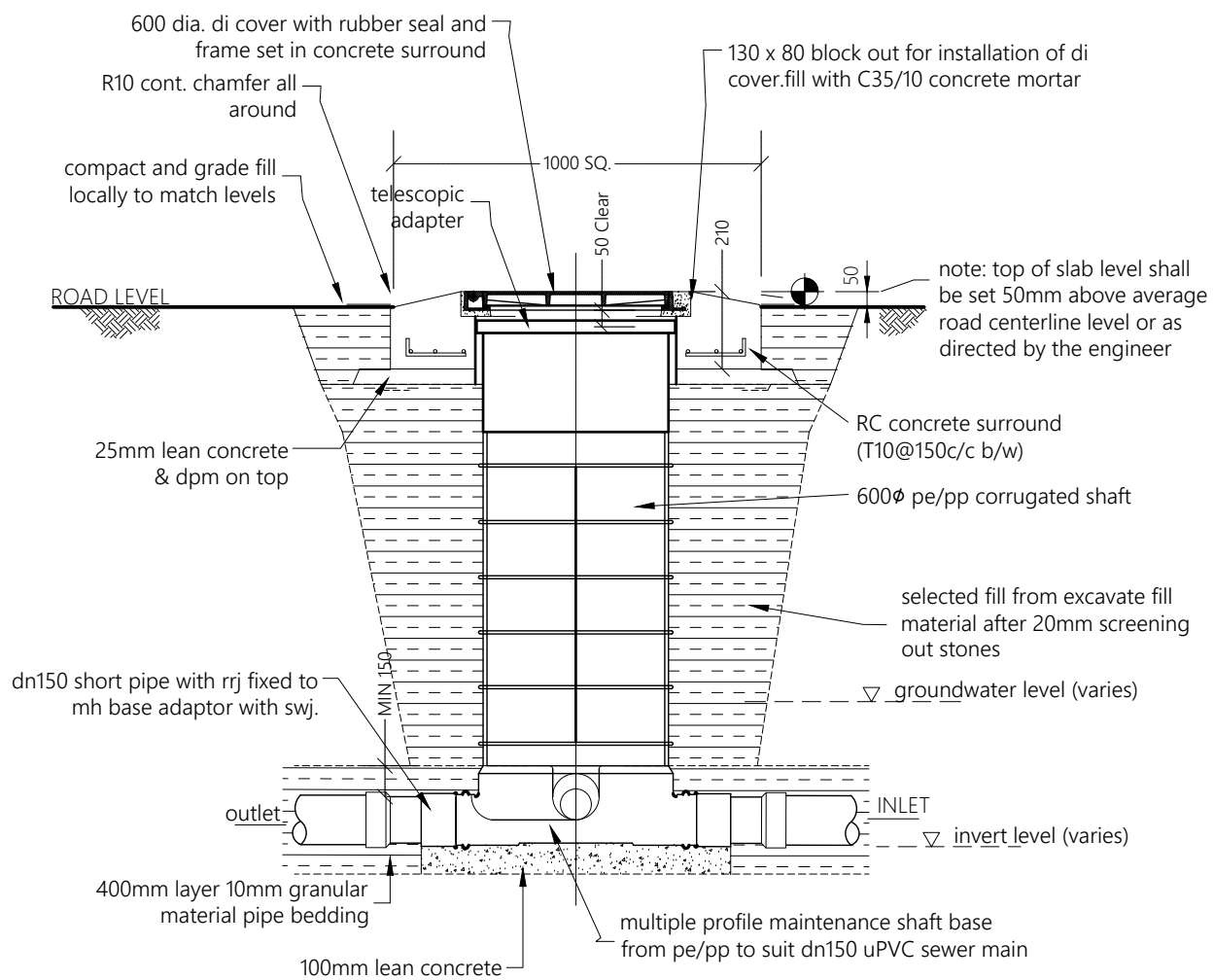
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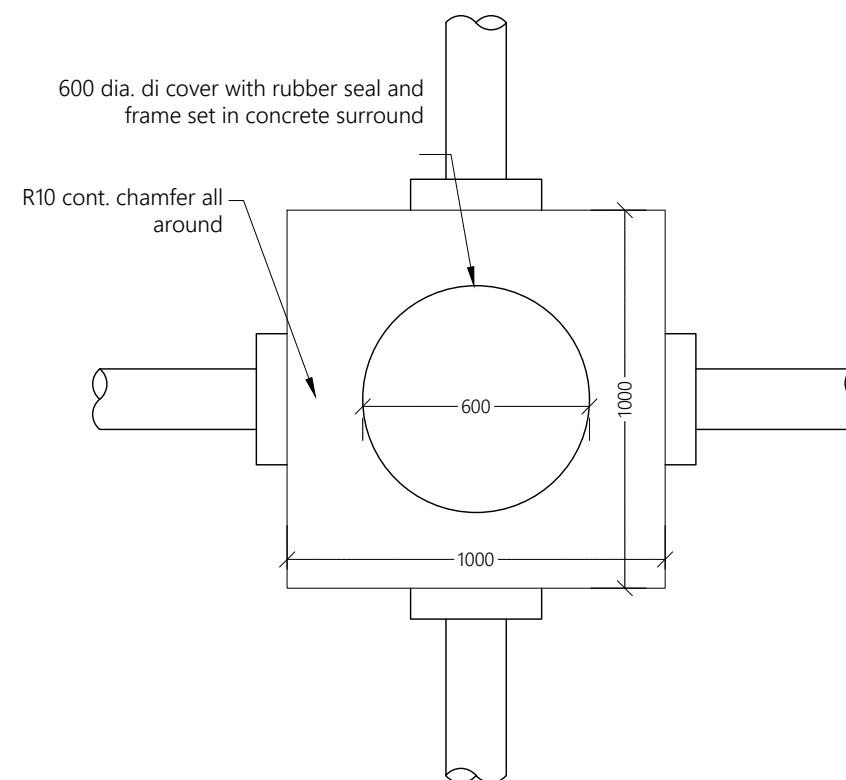
Project No: EP-WS/2019/06

Rev: Page:

W-(14)



ELEVATION - MAINTENANCE SHAFT (MH)



PLAN VIEW - MAINTENANCE SHAFT (MH)

MAINTENANCE SHAFT (MH) DETAILS

1:20



Legend

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 7 islands, Maldives - Package 6

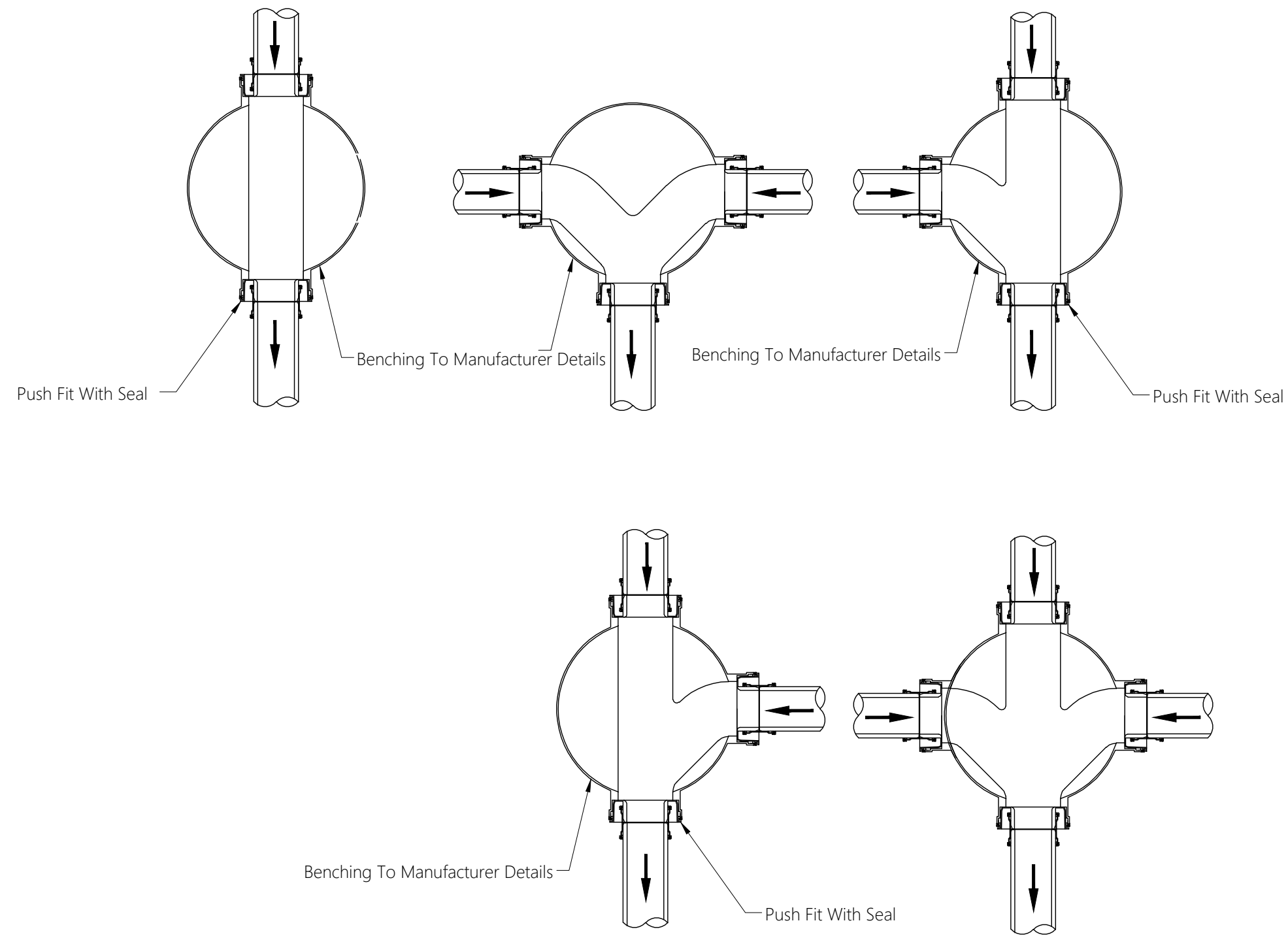
Sub Title:
Sewerage System in L. Hithadhoo

Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives

Drawn: F.I.A. Checked: M.S.S.
Designed: F.I.A. Approved: I.W.
Date: Sep 2020 SCALE (A3): 1:20
Project No: EP-WS/2019/06
Rev: Page: **W-(15)**

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FEEDBACK INFRA
Working Safely, Constructing Responsibly



TYPICAL MANHOLE BASE DETAILS
 NTS




Legend

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.


Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 7 islands, Maldives - Package 6

Sub Title:
Sewerage System in L. Hithadhoo

Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives

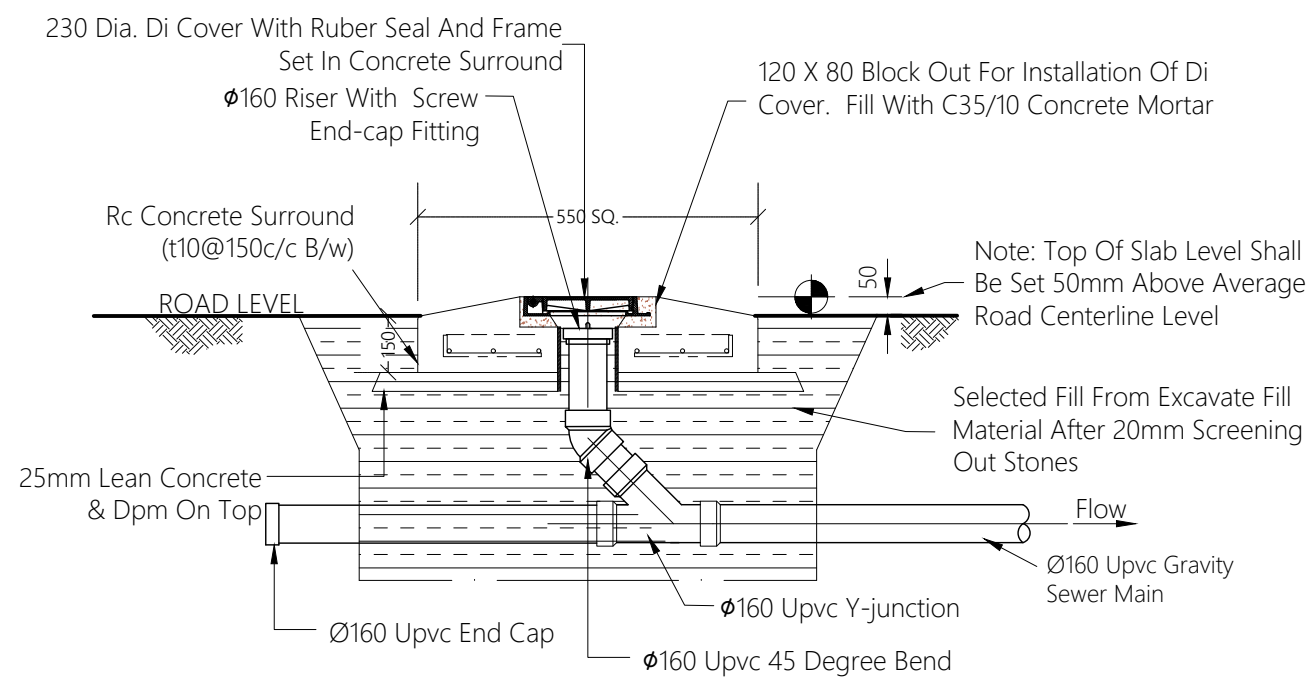


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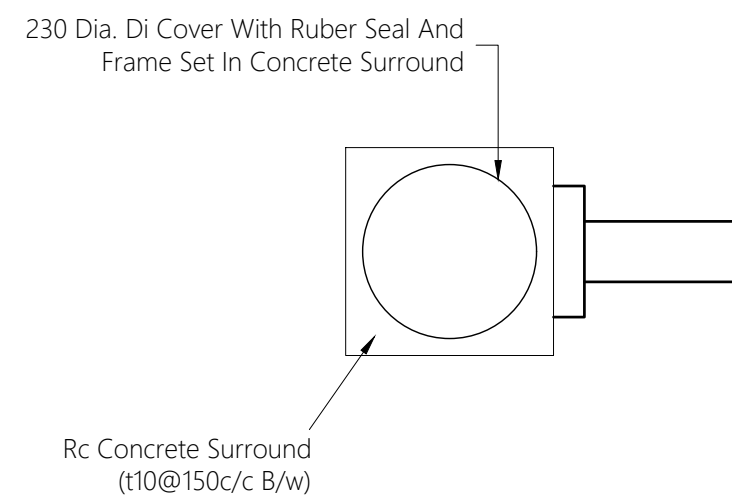


FEEDBACK INFRA
 Working Safely, Constructing Happily

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Date: Sep 2020	SCALE (A3): NTS
Project No: EP-WS/2019/06	
Rev:	Page: W-(16)



ELEVATION - CLEANOUT (CO)



PLAN VIEW - CLEANOUT (CO)



Legend

[illegible]

Title:
**Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
7 islands, Maldives - Package 6**

Sub Title:
Sewerage System in L. Hithadhoo

Client:
**Ministry of National Planning, Housing and
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Drawn: F.I.A.	Checked: M.S.S.
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Designed: F.I.A.	Approved: I.W.
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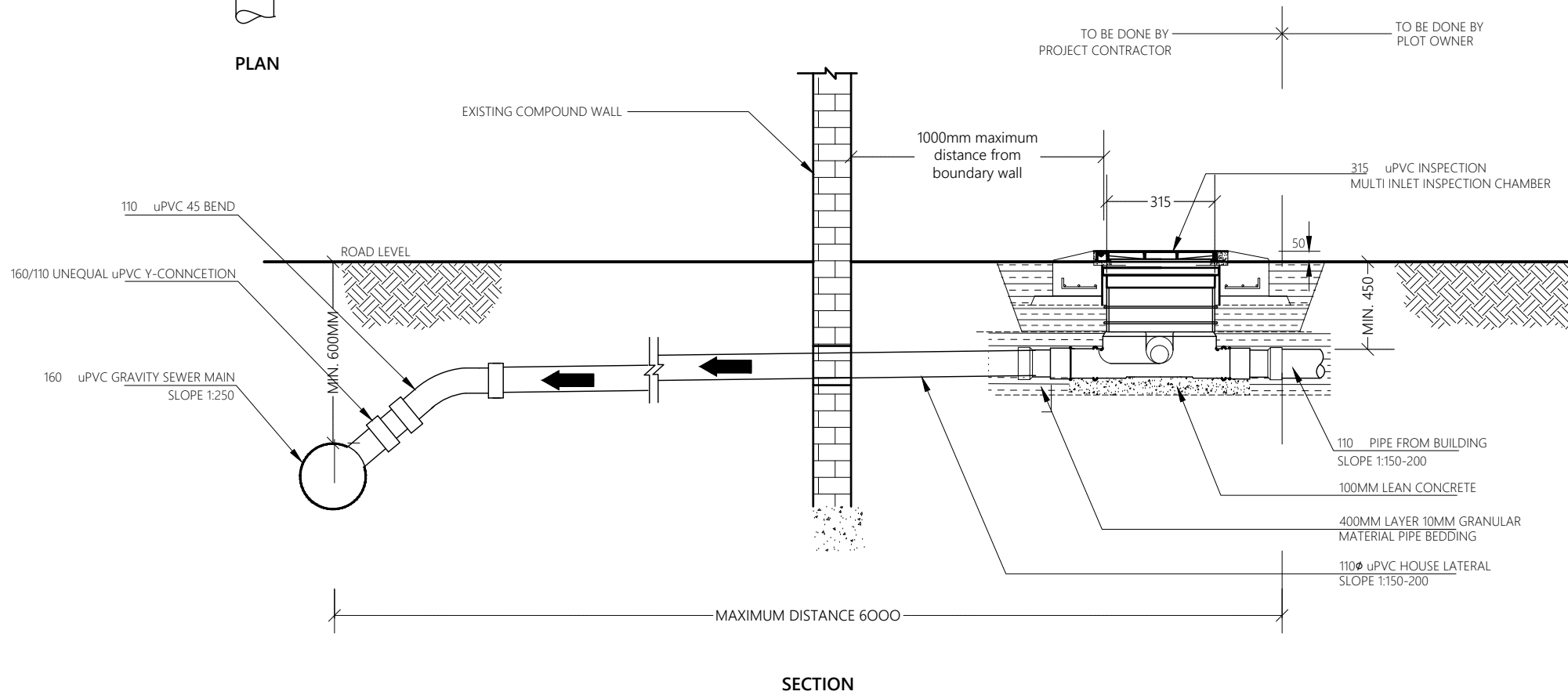
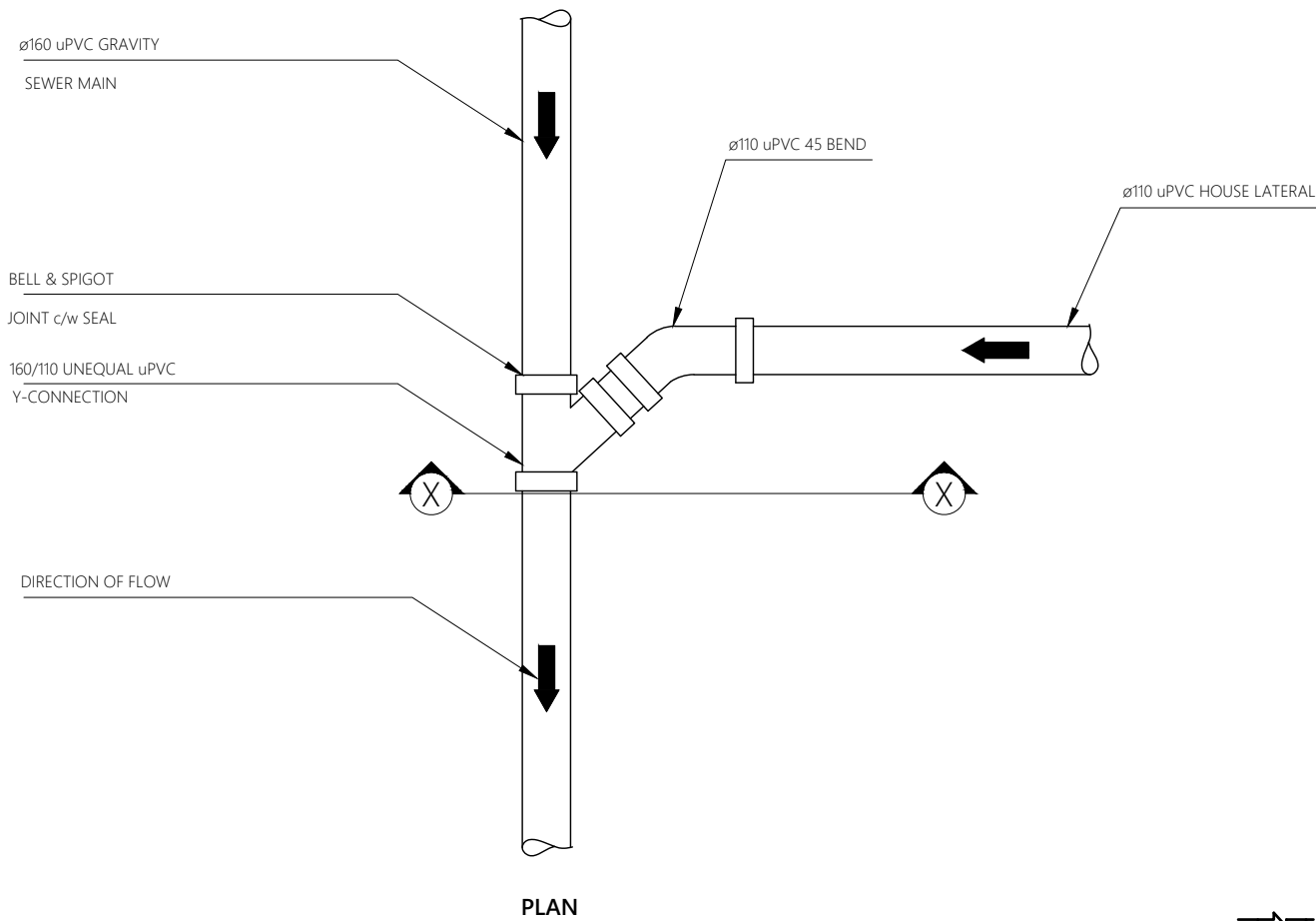
Date: Sep 2020	SCALE (A3): NTS
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Project No: EP-WS/2019/06

Rev:	Page:
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CLEAN OUT DETAILS

NTS



TYPICAL HOUSE CONNECTION DETAIL

NTS



Legend

Notes:

1. Invert level at house inspection chamber and invert level of the sewer main on the road should be checked during the house connection survey and invert level should be adjusted in order to facilitate gravity flow from house inspection chamber to sewer main.

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 7 Islands, Maldives - Package 6

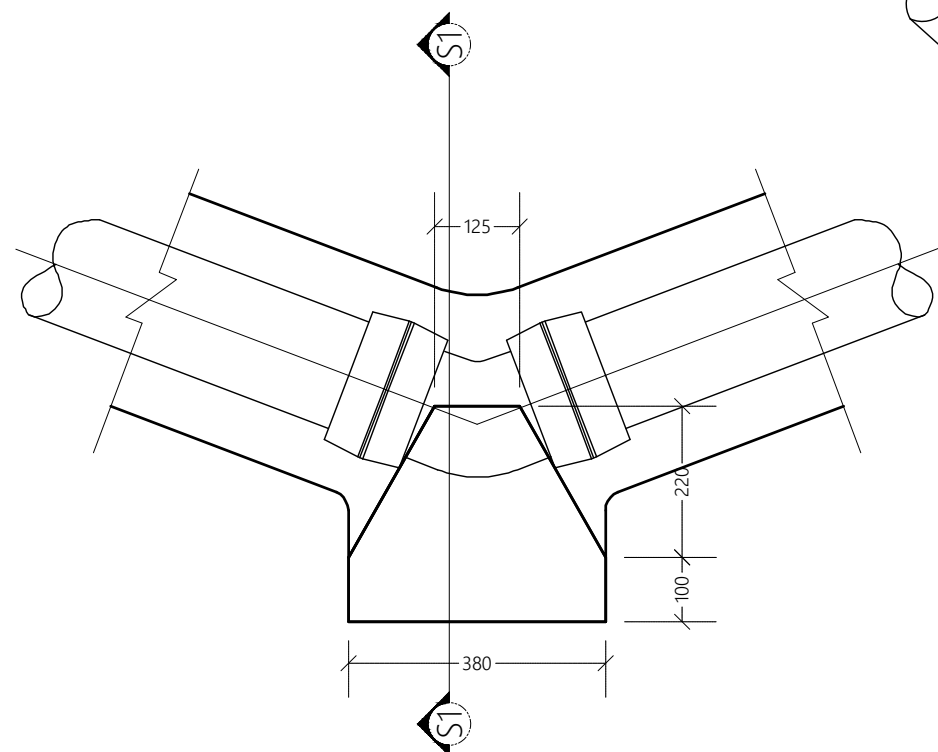
Sub Title:
Sewerage System in L. Hithadhoo

Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives

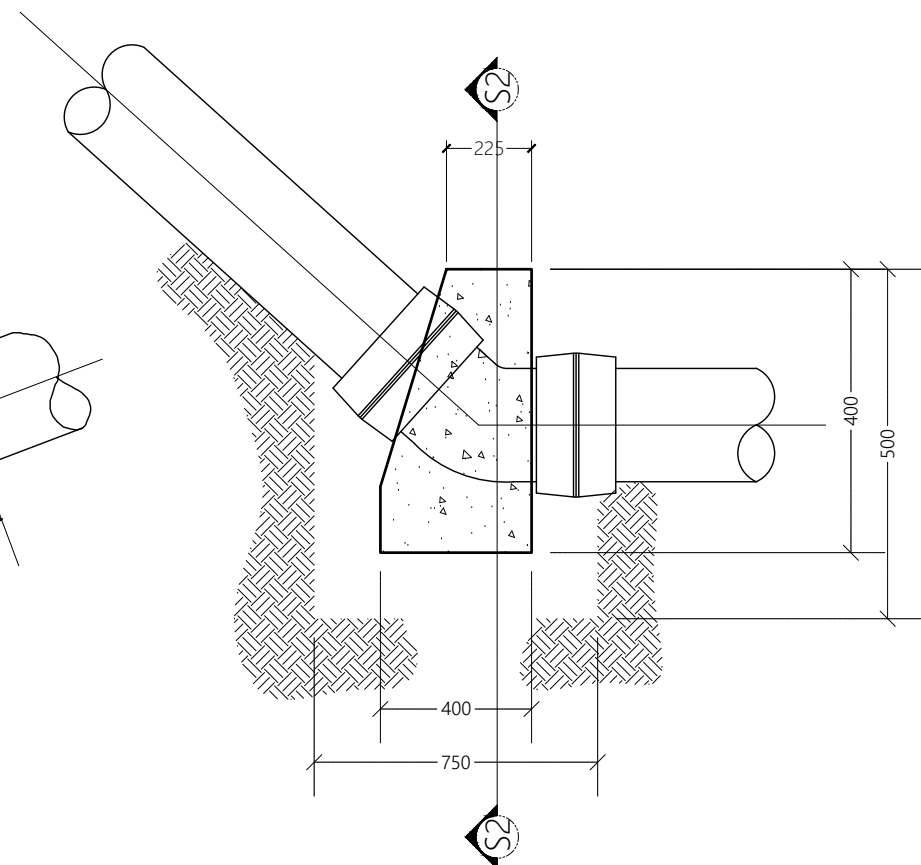
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Maldives Infrastructure Development

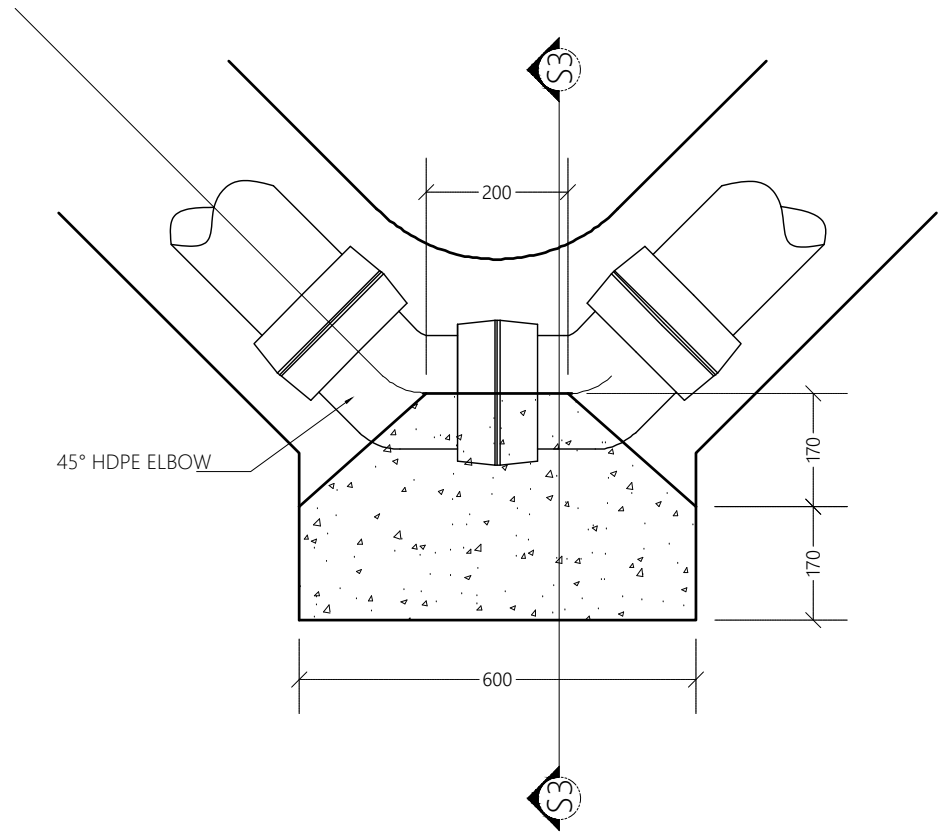
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Date: Sep 2020	SCALE (A3): NTS
Project No: EP-WS/2019/06	Page: W-(18)



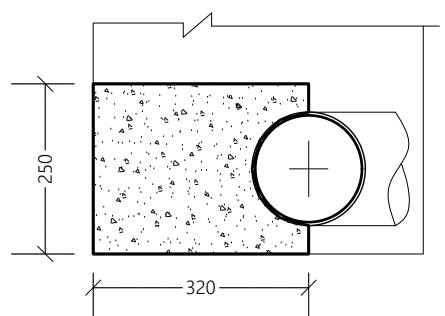
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NTS



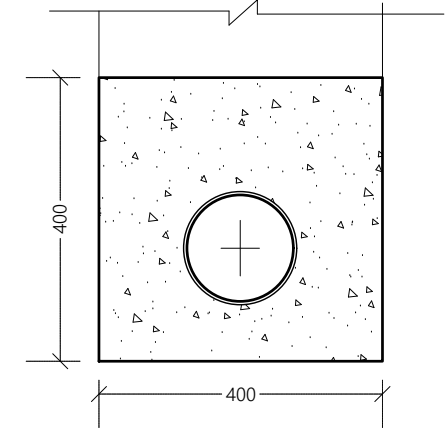
VERTICAL 45° BEND
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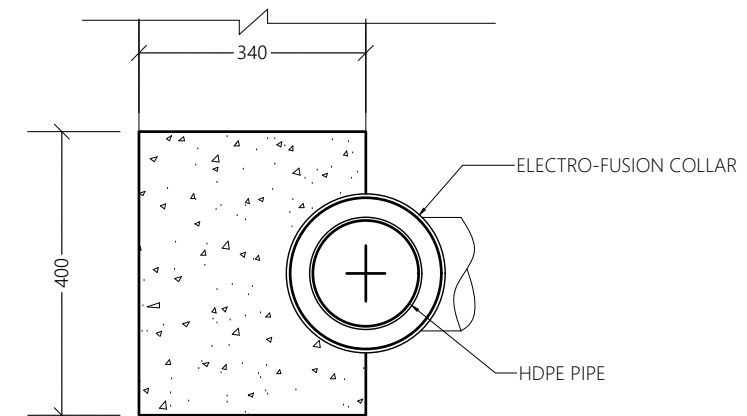
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SECTION S1-S1
NTS



SECTION S2-S2
NTS



SECTION S3-S3
NTS

THRUST BLOCK DETAILS

NTS

Legend

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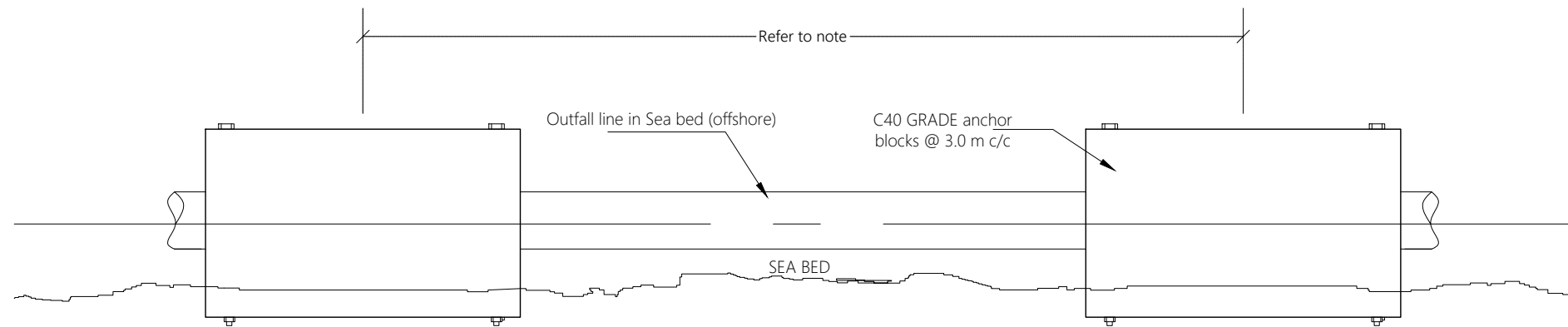
Sub Title:
Sewerage System in L. Hithadhoo

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Date: Sep 2020	SCALE (A3): NTS
Project No: EP-WS/2019/06	Page: W-(19)



Technical drawing of a semi-circular culvert structure. The drawing shows a cross-section of the structure with dimensions: a total width of 900 at the top, a base width of 600, and a height of 300 for the semi-circular part. A circular opening with a diameter of 150 is centered on the base. The structure is shown resting on a "SEA BED".

Technical drawing of a gravity dam cross-section. The dam has a total height of 900 mm, divided into three equal sections of 300 mm each. The base width is 900 mm, with a central 600 mm section and 150 mm sections on either side. The top width is 600 mm. The dam is reinforced with T12 bars at 200 mm center-to-center spacing in both horizontal and vertical directions. The top section is labeled 'Anchor blocks C40A GRADE'. The middle section shows an 'Outfall pipe' and '4 nos. 25mm ϕ Threaded rod with bolts (SS316)'. The bottom section is labeled 'SEA BED'.

4 nos. 25mm ϕ Threaded rod with bolts (SS316)

1000

27mm ϕ hole

100

150


100

400

600

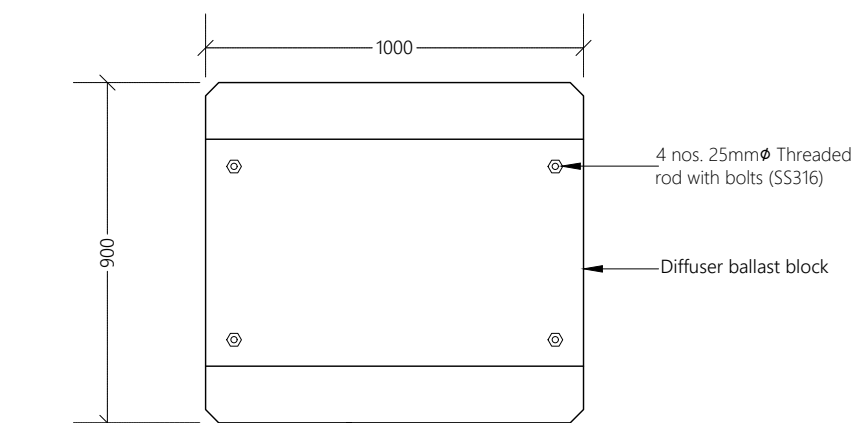
100

150



REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

V-(20)



Technical drawing of the diffuser ballast block assembly. The drawing shows a rectangular block with a central circular diffuser. The overall dimensions are 1000 mm in width and 700 mm in height. The block is composed of several layers: a top layer of 4 nos. 25mm ϕ Threaded rod with bolts (SS316), a middle layer of Diffuser ballast block, and a bottom layer of 160 ϕ HDPE PIPE. The bottom layer is shown with a wavy line representing the SEA BED. The vertical dimensions are 300 mm for the top layer, 400 mm for the middle layer, and 100 mm for the bottom layer. The horizontal dimensions are 1000 mm for the overall width and 1000 mm for the width of the central diffuser area.

600

700

300

400

100

900

SEA BED

4 nos. 25mm Ø Threaded rod with bolts (SS316)

Diffuser ballast block

Technical drawing of the diffuser ballast block, showing front and side views with dimensions and labels.

Front View (Left):

- Overall width: 1000
- Overall height: 700
- Top section height: 300
- Bottom section height: 400
- Bottom flange thickness: 100
- Central circular feature: 160 ϕ HDPE PIPE
- Rectangular features: Diffuser ballast block
- Assembly: 4 nos. 25mm ϕ Threaded rod with bolts (SS316)
- Environment: SEA BED

Side View (Right):

- Overall width: 1000
- Overall height: 700
- Top section height: 300
- Bottom section height: 400
- Bottom flange thickness: 100
- Top section width: 600

Technical drawing of the cross-section of the 'SEA BED' structure. The structure is a trapezoid with a top width of 600 and a bottom width of 1000. The total height is 700, divided into a top section of 300 and a bottom section of 400. The top section contains a horizontal pipe labeled 'T12@200C/C B/W' and a 'Diffuser ballast block'. The bottom section contains a horizontal pipe labeled '160φ HDPE PIPE' and a rectangular structure labeled 'T12@200C/C B/W'. The entire structure is labeled 'SEA BED'.

Technical drawing of a rectangular structure, likely a diffuser or ballast block, showing dimensions and reinforcement details.

Dimensions:

- Top width: 600
- Bottom width: 1000
- Top section height: 300
- Bottom section height: 400
- Base thickness: 100

Reinforcement and Components:

- 4 nos. 25mm ϕ Threaded rod with bolts (SS316)
- T12@200C/C B/W
- Diffuser ballast block
- T12@200C/C B/W
- SEA BED

T DIFFUSER DETAILS



Notes:

1. All backing rings for stub flanges , nuts and bolts shall be grade 316 stainless steel.
2. All pipe work shall be welded on 10mm thick neoprene rubber seal in semicircular recess matching the O.D. the pipe.
3. Fabricate specific pipe clamps to provide firm clamping action according to pipe O.D.
4. All structural concrete shall be of grade C40A.
5. All castings shall be done using sulphate resistant portland cement to BS 4027:1996.
6. All structural reinforcement shall be epoxy coating of non-pre-stressed reinforcement to ASTM-A775/A775M.
7. A cover of 75mm should be given for all reinforcements.
8. In shallow water (regions where the depth is less than 1m), the ballast block spacing is 3.5m. In deeper water (regions where the depth is greater than 1m), the ballast block spacing is 2.0m. All distances are from c/c of blocks.

[illegible]

Title:
**Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
7 islands, Maldives - Package 6**

Sub Title:
Sewerage System in L. Hithadhoo

Client:
**Ministry of National Planning, Housing and
Infrastructure, Republic of Maldives**

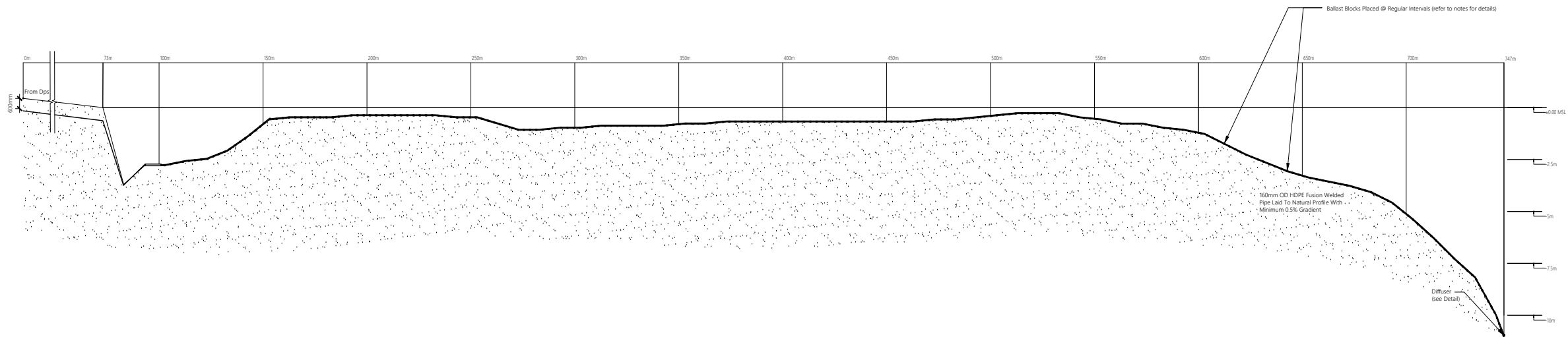


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Date: Sep 2020	SCALE (A3): NTS
Project No: EP-WS/2019/06	
Rev:	Page:

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Notes:

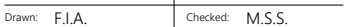
1. Contractor should carry out a detailed bathymetric survey for the proposed area, revise and present a shop drawing for the outfall layout prior to commencement of outfall works.
2. In shallow water (regions where the depth is less than 1m), the ballast block spacing is 3.5m. In deeper water (regions where the depth is greater than 1m), the ballast block spacing is 2.0m. All distances are from c/c of blocks.

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
**Consultancy Services for Survey,
Design and EIA works of Water
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7 islands, Maldives - Package 6**

Sub Title:
Sewerage System in L. Hithadhoo

Client:
**Ministry of National Planning, Housing and
Infrastructure, Republic of Maldives**



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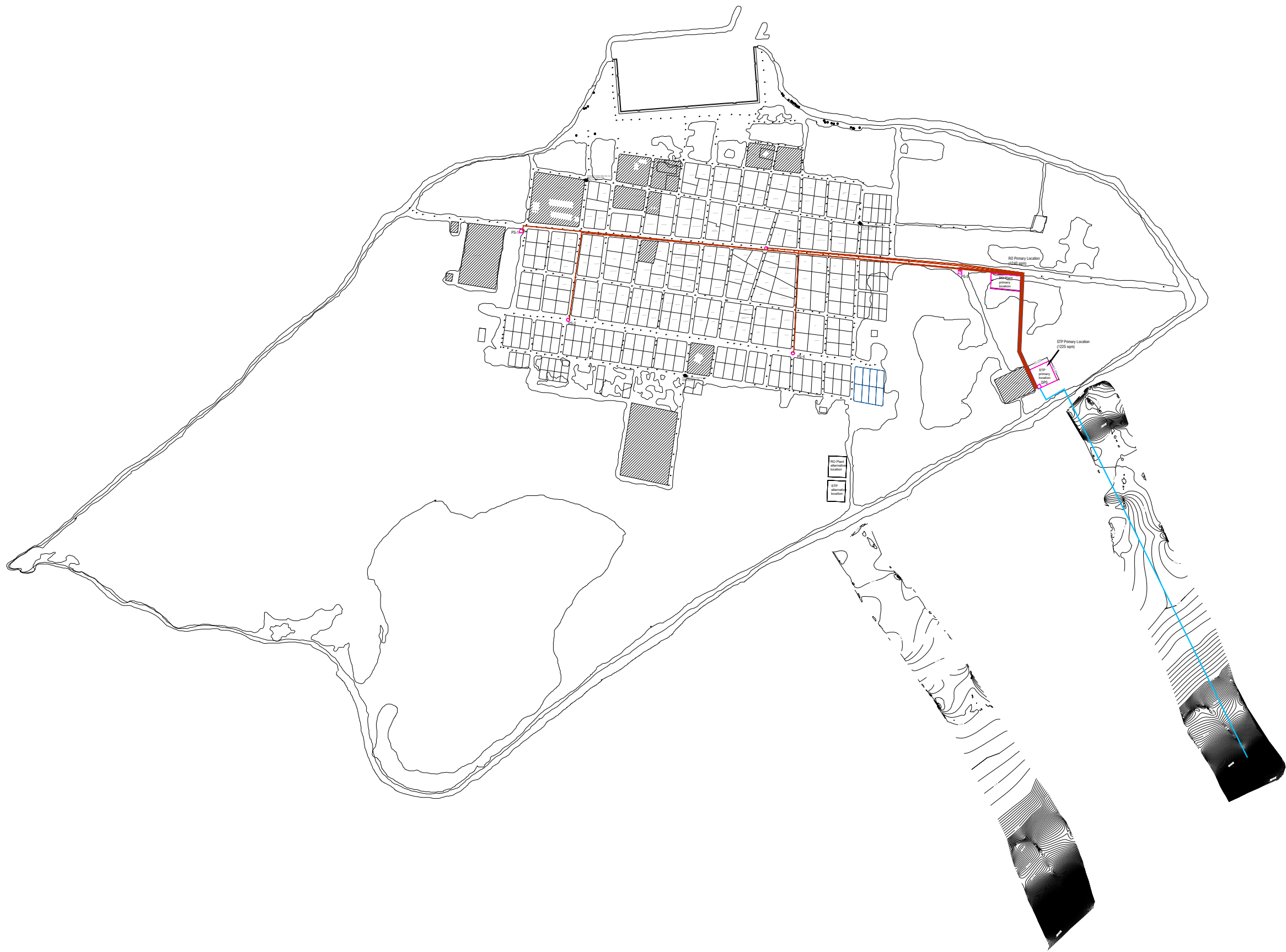
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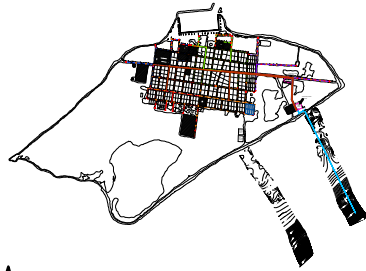
Rev:	Page: W-(22)
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SEA OUTFALL DETAILS

NTS



L. HITHADHOO SEWERAGE SYSTEM - PRESSURE NETWORK LAYOUT
1:7000



Legend

- 110 mm Ø HDPE Pumping Main (PE100, PN16, SDR11)
- 160 mm Ø HDPE Sea Outfall Pipe (PE100, PN16, SDR11)

REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 7 islands, Maldives - Package 6

Sub Title:
Sewerage System in L. Hithadhoo

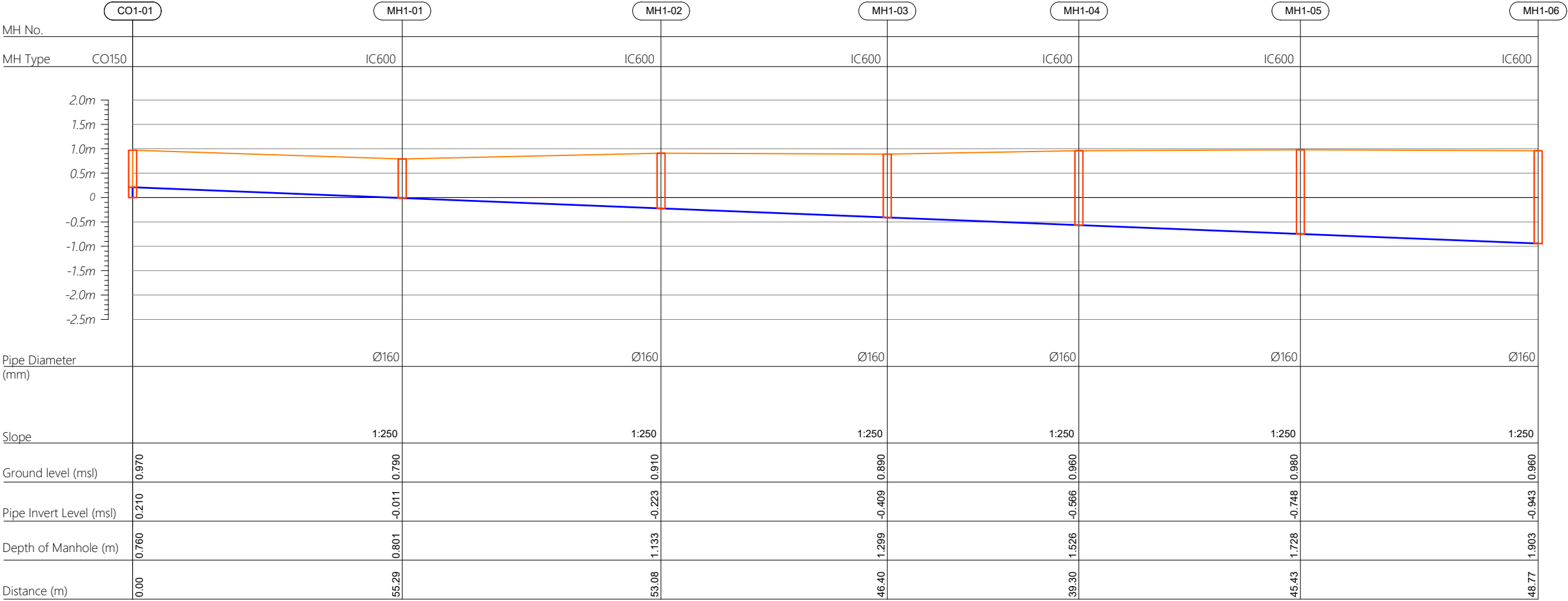
Client:
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Date: Sep 2020	SCALE (A3): 1:7000
Project No: EP-WS/2019/06	Page: W-(23)

Profile 01



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:

Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 5 islands, Maldives - Package 6

Sub Title:

Sewerage System in L.Hithadhoo

Client:

Ministry of National Planning, Housing and Infrastructure, Republic of Maldives

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F

DBACK

INFRA

Making Infrastructure Happen

Drawn: A.R.W

Checked: M.S.S

Designed: F.I.A

Approved: I.W

Date: Aug 2020

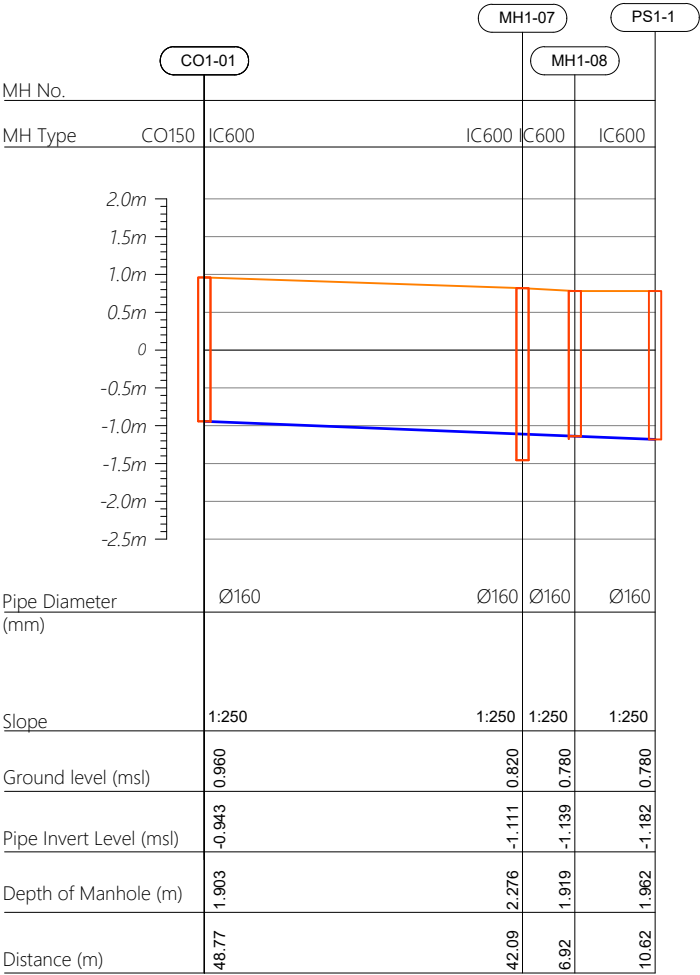
SCALE (A3): 1:100

Project No: 01010101

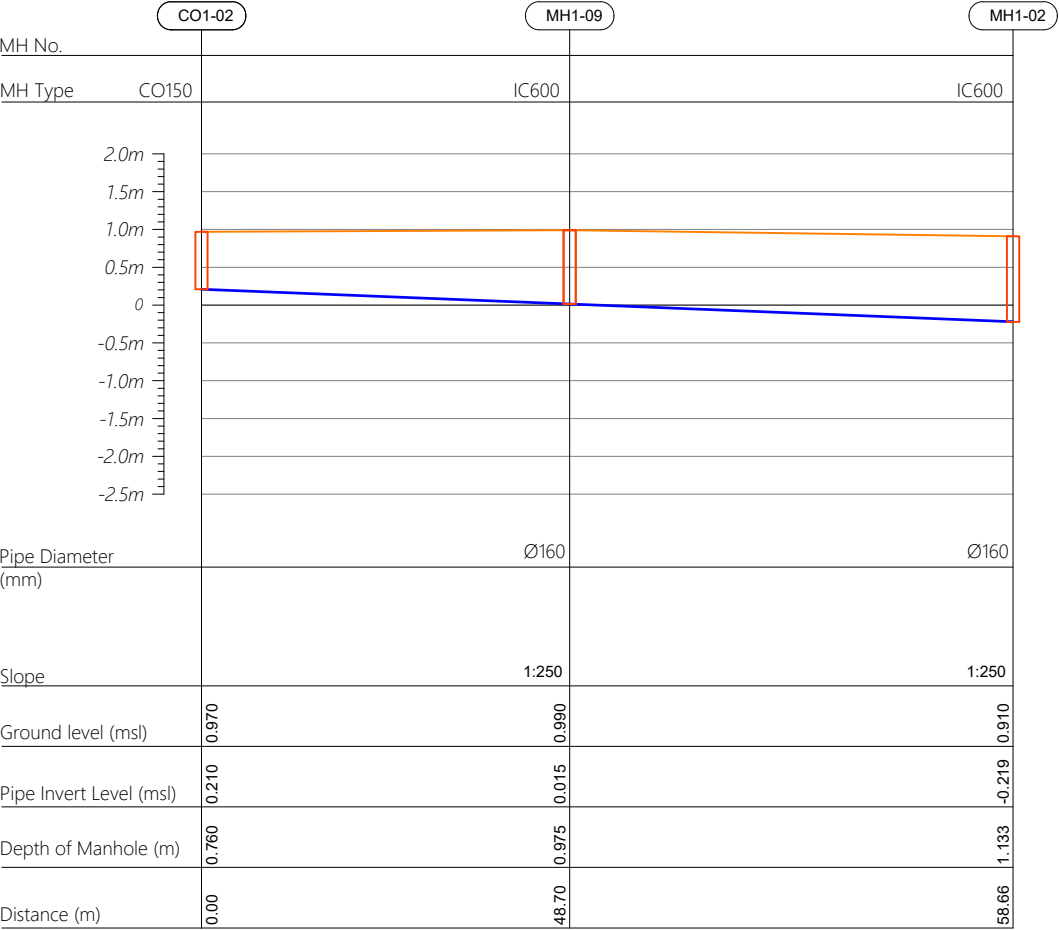
Rev: R-01

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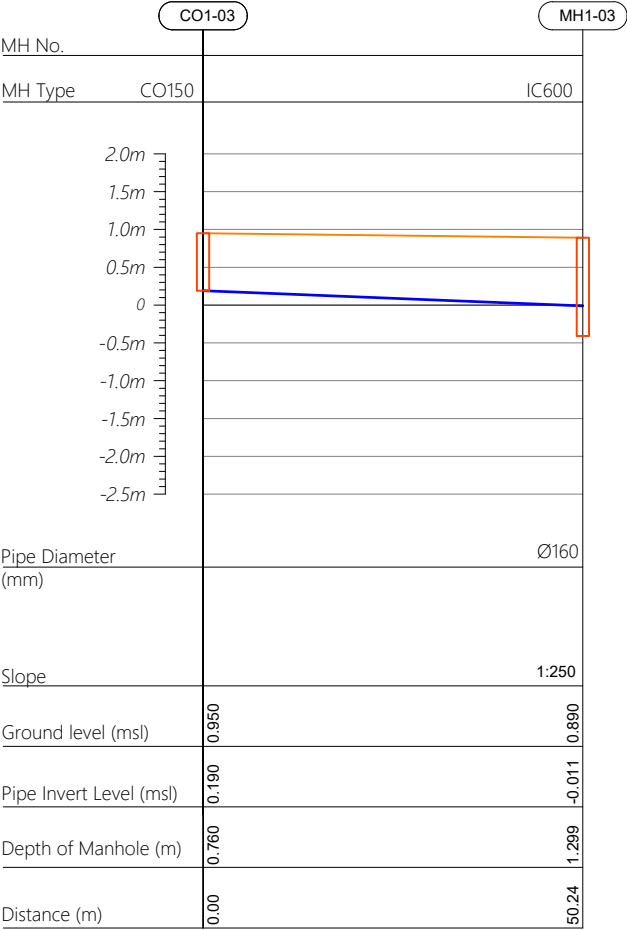
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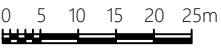
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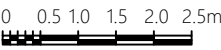
Profile 03



HORIZONTAL SCALE



VERTICAL SCALE



CO160 — Cleanout Ø160
IC600 — HDPE Manhole Ø600
PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
**Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
5 islands, Maldives - Package 6**

Sub Title:
Sewerage System in L.Hithadhoo

Client:
**Ministry of National Planning, Housing and
Infrastructure, Republic of Maldives**

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Drawn: A.R.W. Checked: M.S.S.

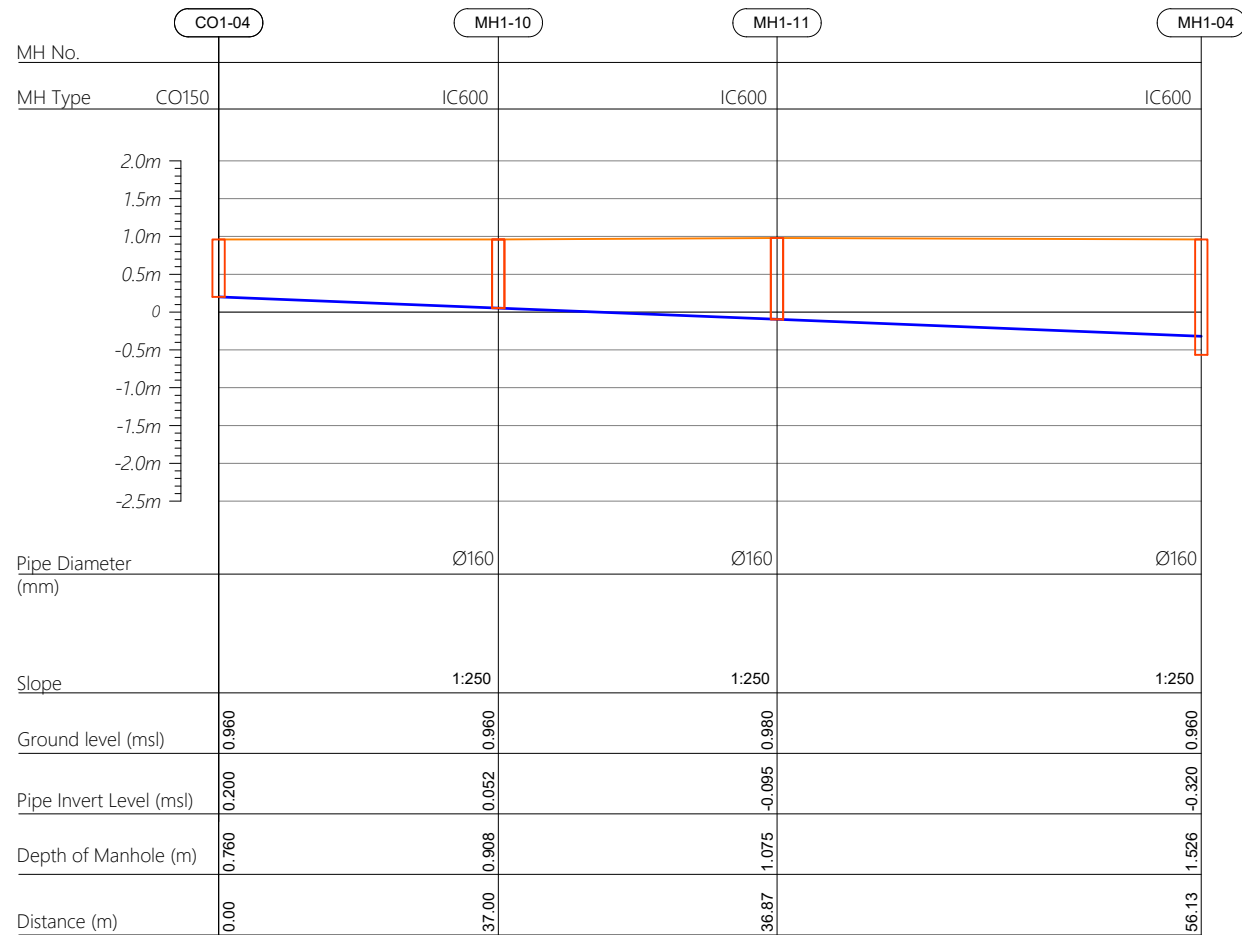
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Date: Aug 2020 SCALE (A3): 1:100

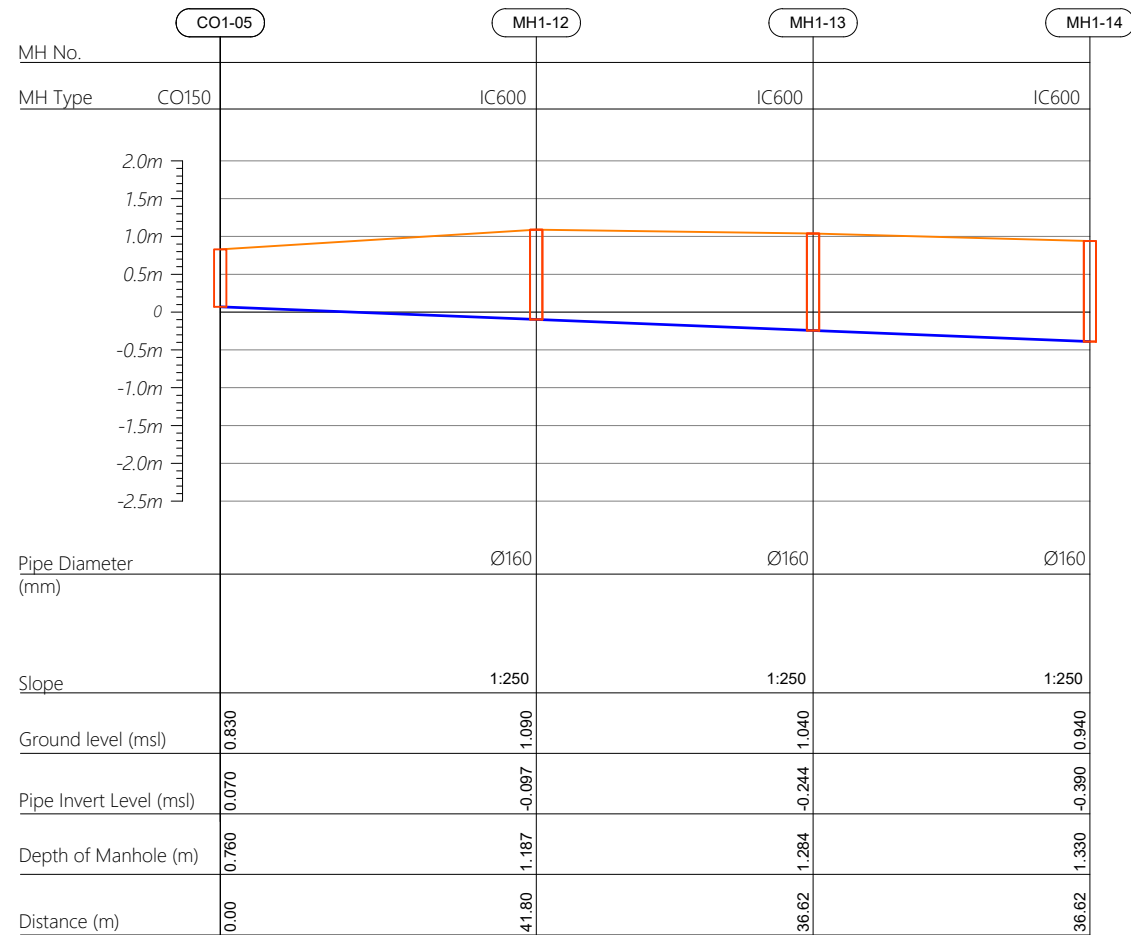
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Rev: R-01 Page: PS1-02

Profile 04



Profile 05



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
*Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
5 islands, Maldives - Package 6*

Sub Title:
Sewerage System in L.Hithadhoo

Client:
*Ministry of National Planning, Housing and
Infrastructure, Republic of Maldives*



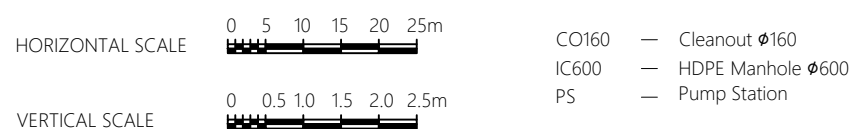
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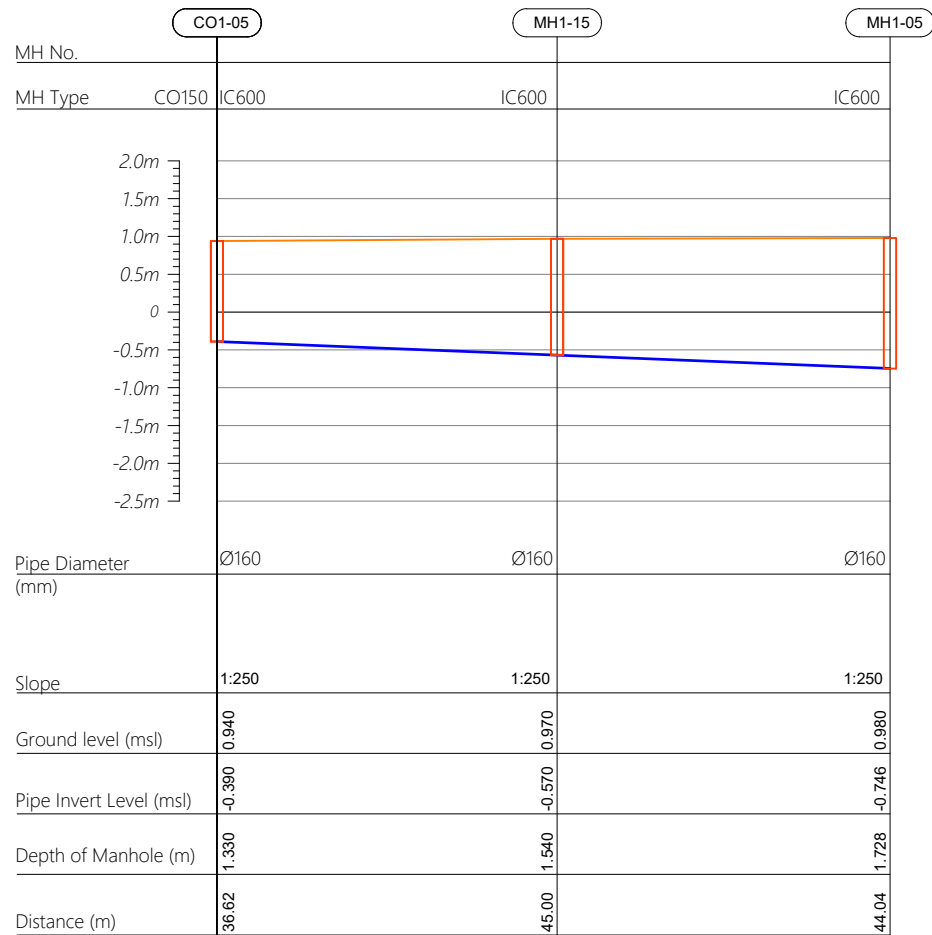
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Project No: 01010101

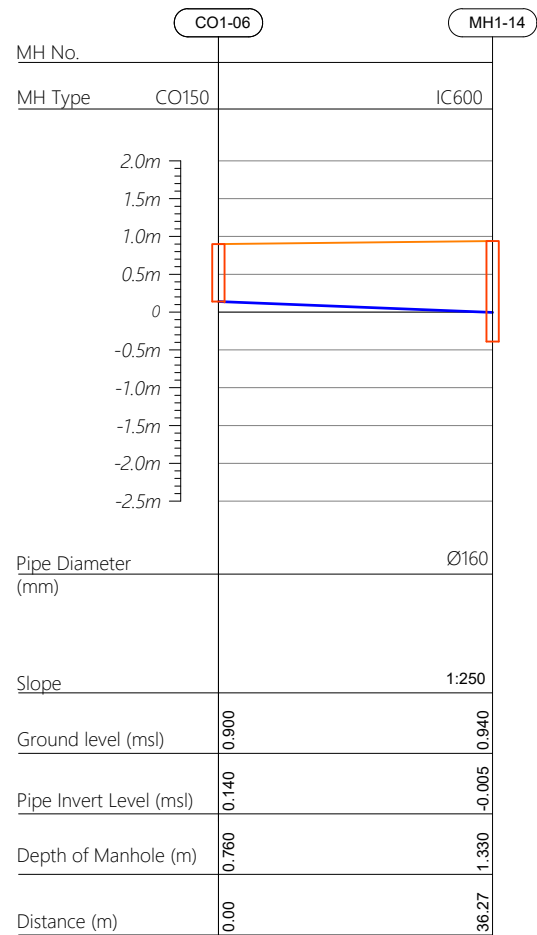
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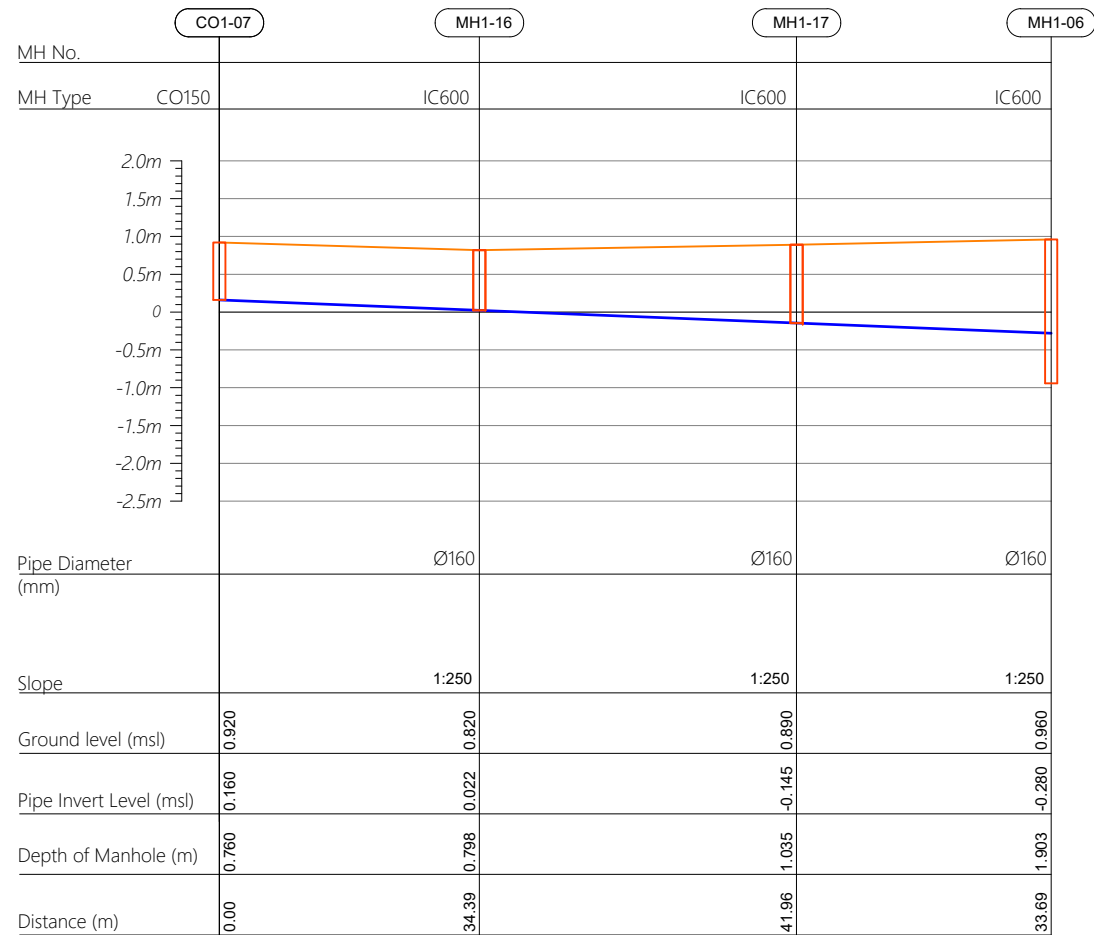
Profile 05



Profile 06



Profile 07



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
*Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
5 islands, Maldives - Package 6*

Sub Title:
Sewerage System in L.Hithadhoo

Client:
*Ministry of National Planning, Housing and
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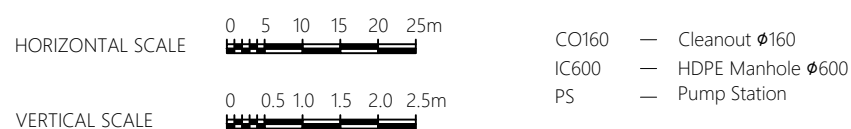
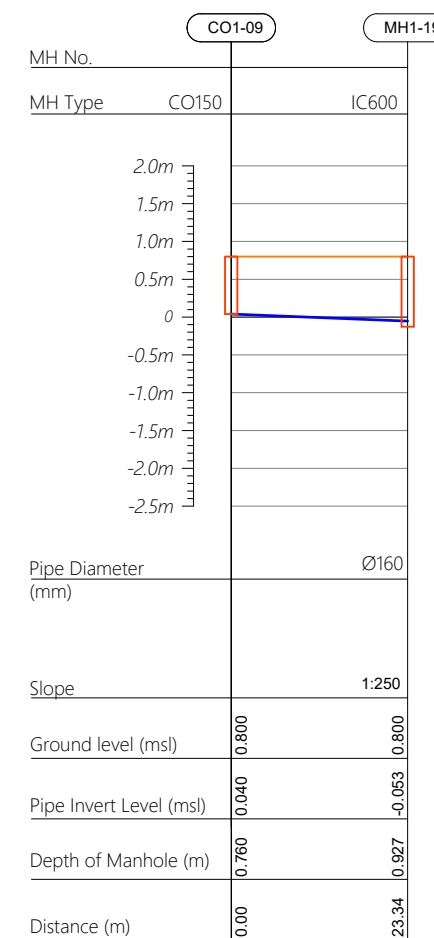
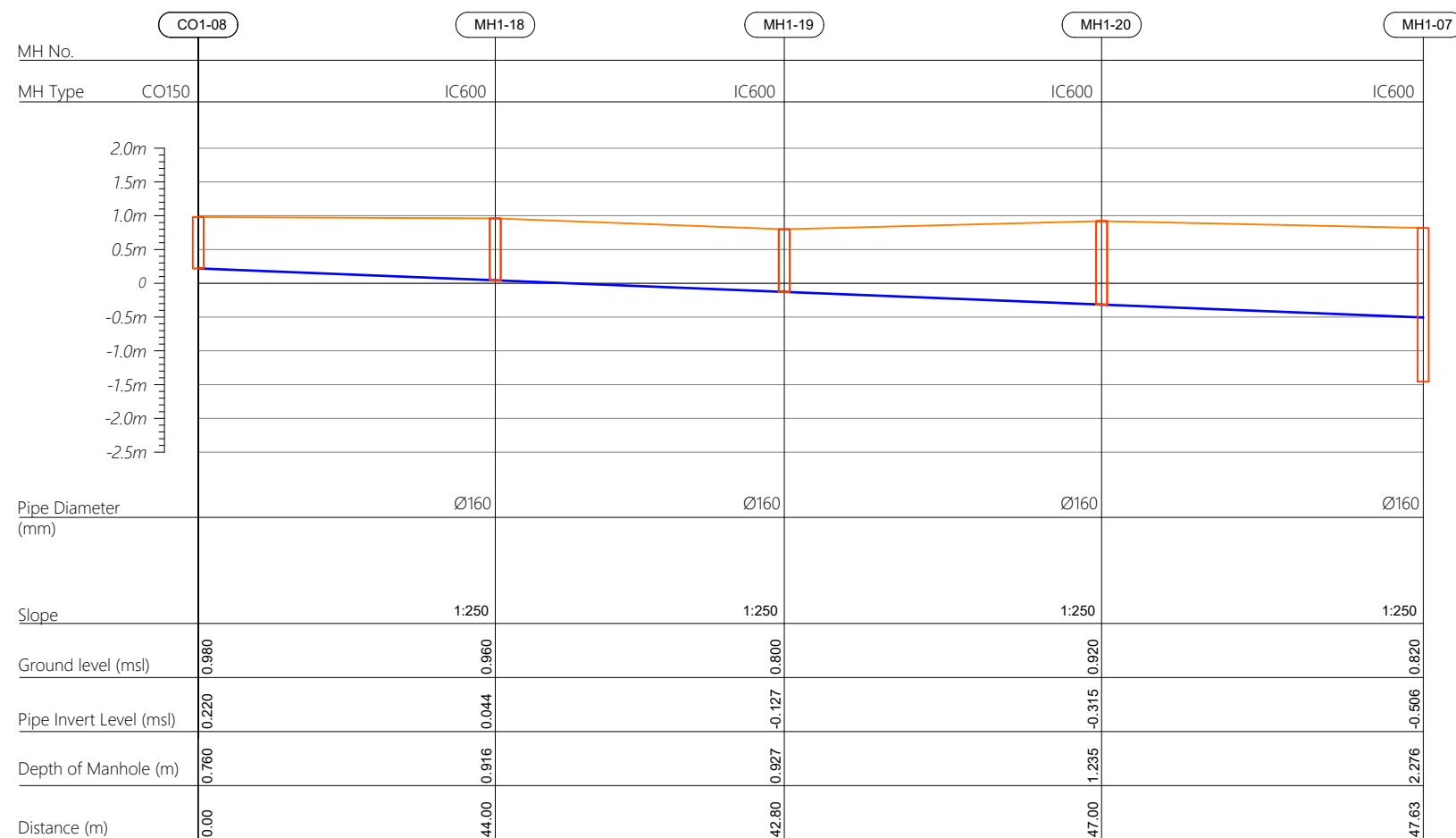
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Project No: 01010101

Rev: <i>R-01</i>	Page: <i>PS1-04</i>
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Profile 08



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	App

Title:
*Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
5 islands, Maldives - Package 6*

Sub Title:
Sewerage System in L.Hithadhoo

Client:
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Infrastructure, Republic of Maldives*



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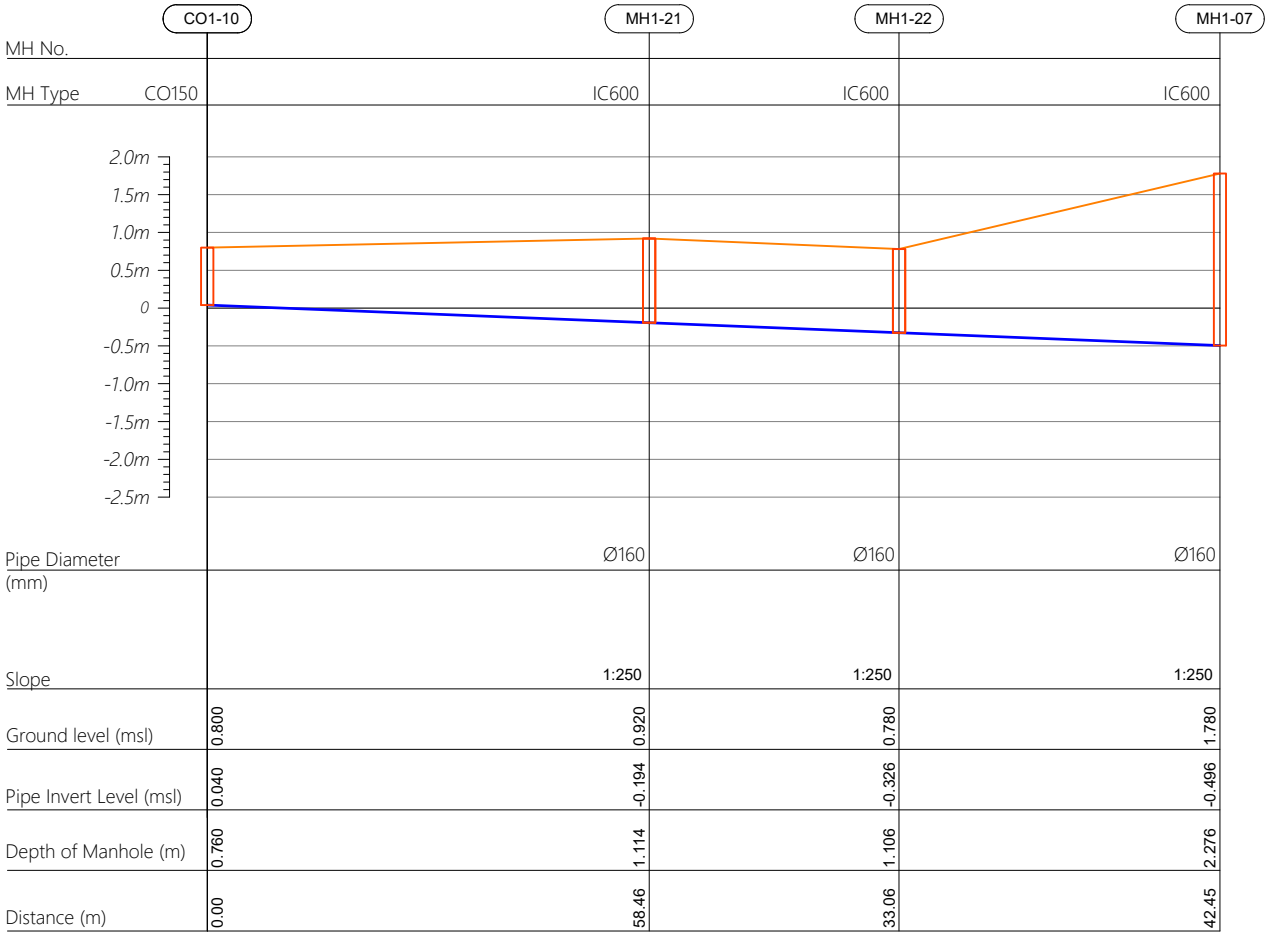
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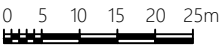
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Rev: <i>R-01</i>	Page: <i>PS1-1</i>
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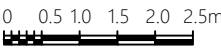
Profile 10



HORIZONTAL SCALE



VERTICAL SCALE



- CO160 — Cleanout Ø160
- IC600 — HDPE Manhole Ø600
- PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 5 islands, Maldives - Package 6

Sub Title:
Sewerage System in L.Hithadhoo

Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives

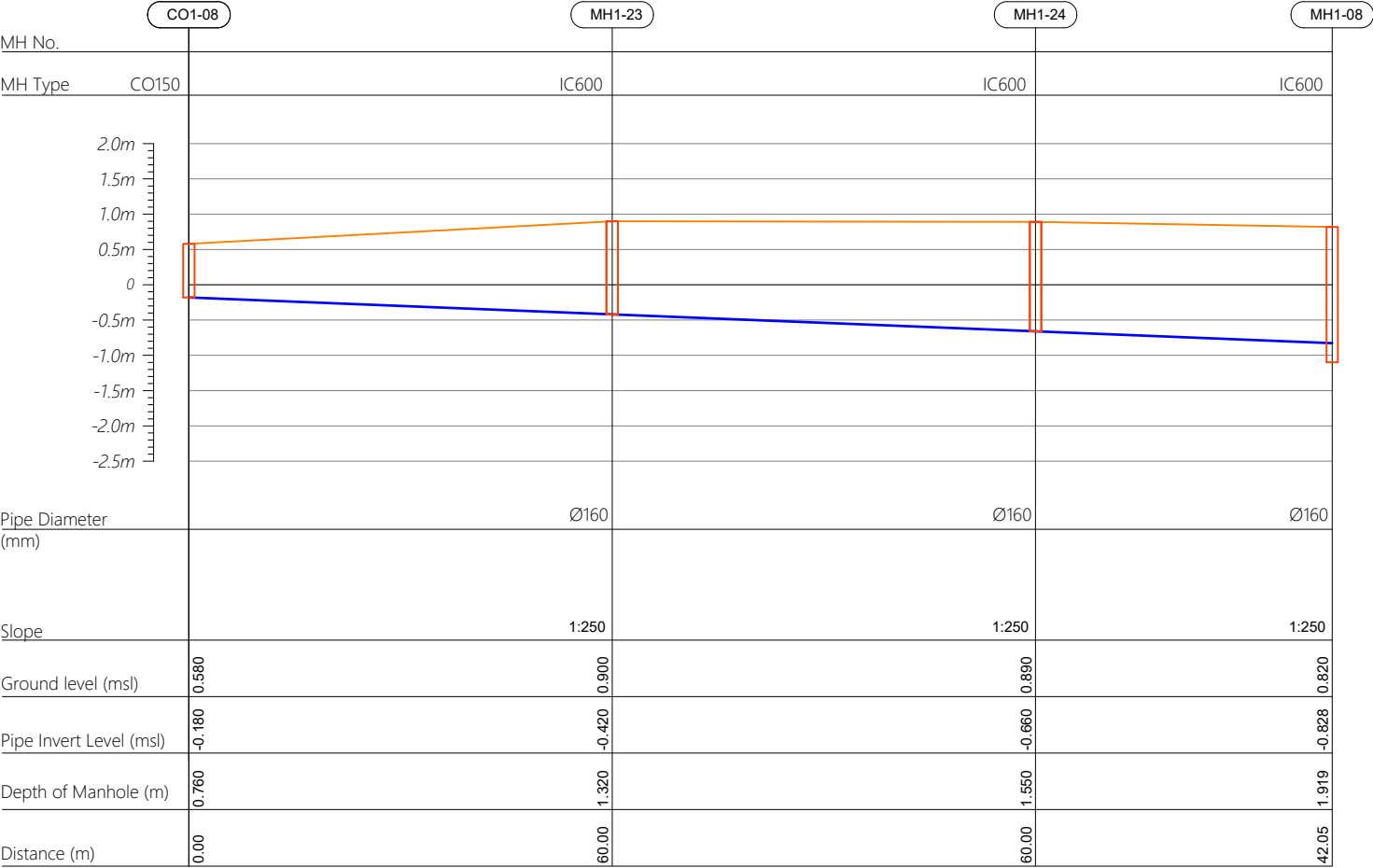
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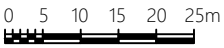
FIDBACK INFRA
Maldivu Infrastructure Happpu

Drawn: A.R.W	Checked: M.S.S
Designed: F.I.A	Approved: I.W
Date: Aug 2020	SCALE (A3): 1:100
Project No: 01010101	
Rev: R-01	Page: PS1-06

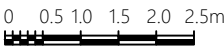
Profile 11



HORIZONTAL SCALE



VERTICAL SCALE



- CO160 — Cleanout Ø160
IC600 — HDPE Manhole Ø600
PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 5 islands, Maldives - Package 6

Sub Title:
Sewerage System in L.Hithadhoo

Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives

EPOCH
ASSOCIATES
T: +960 333 3528
E: info@epoch.associates
W: www.epoch.associates
A: G. Rosary West,
Husnuheemaa Magu, Male', Maldives

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Drawn: A.R.W Checked: M.S.S

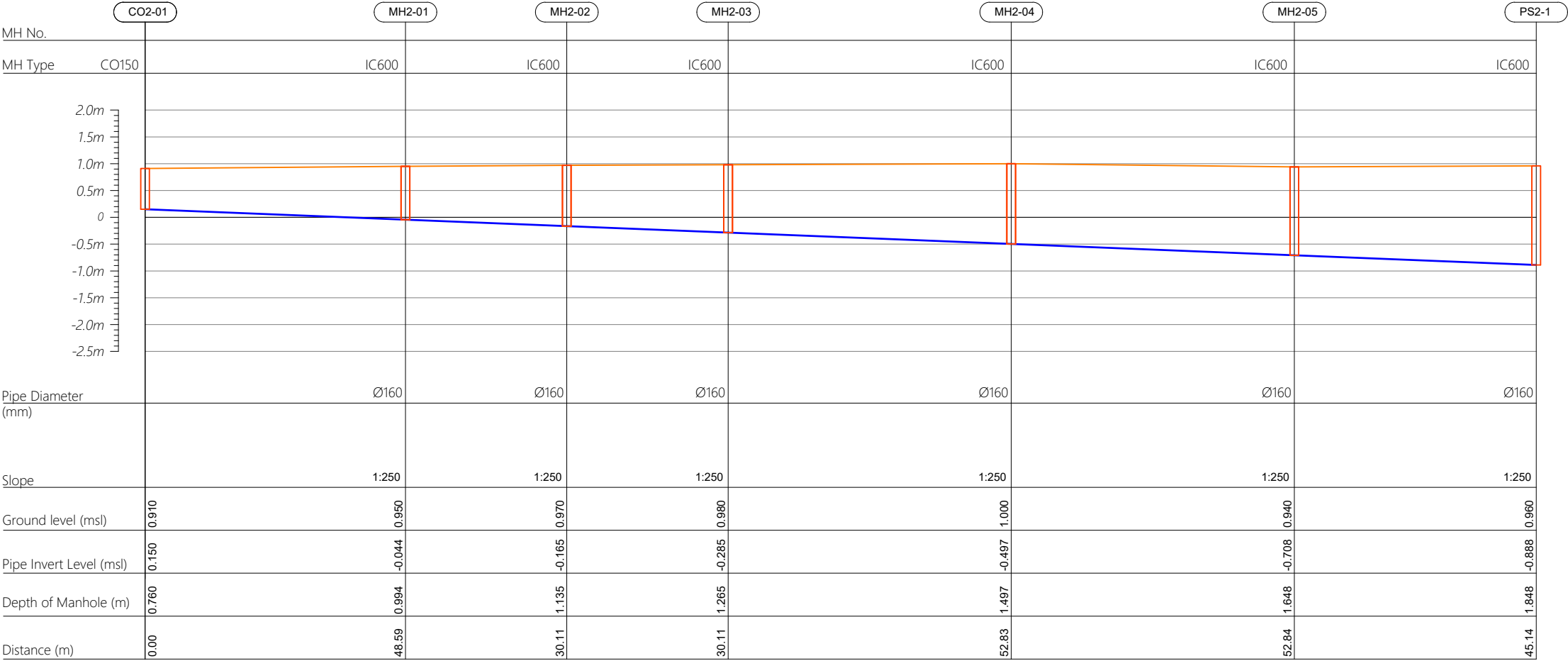
Designed: F.I.A Approved: I.W

Date: Aug 2020 SCALE (A3): 1:100

Project No: 01010101

Rev: R-01 Page: PS1-07

Profile 01



- CO160 — Cleanout Ø160
- IC600 — HDPE Manhole Ø600
- PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

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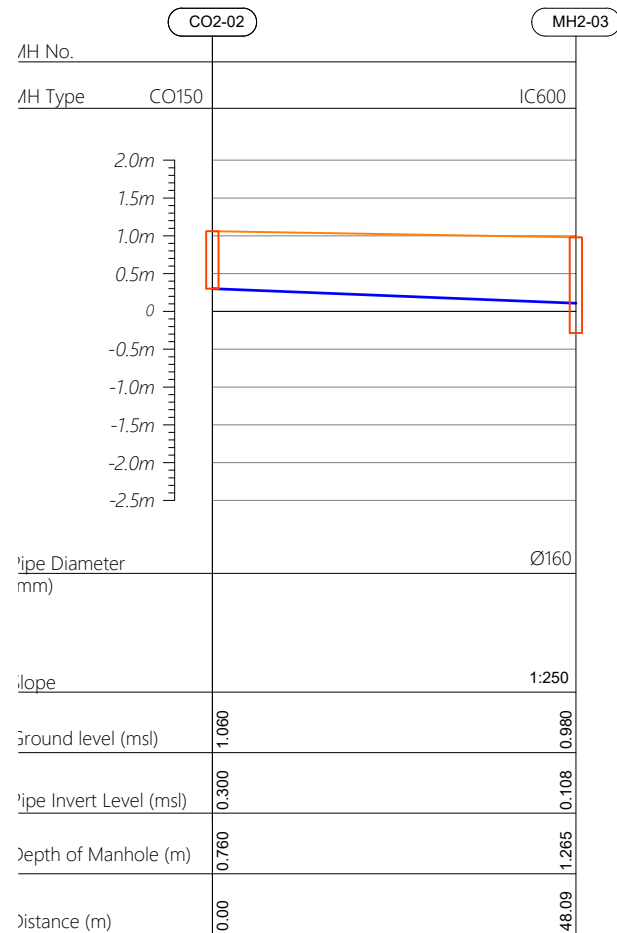
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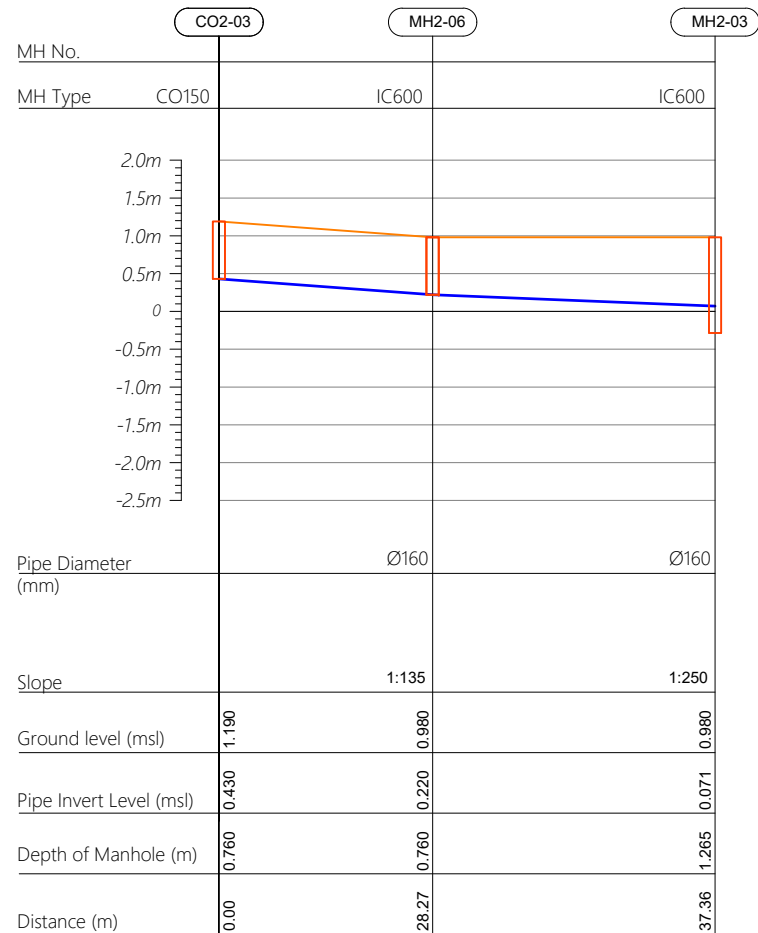
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Designed: F.I.A	Approved: I.W
Date: Aug 2020	SCALE (A3): 1:100
Project No: 01010101	

Rev: R-01	Page: PS2-01
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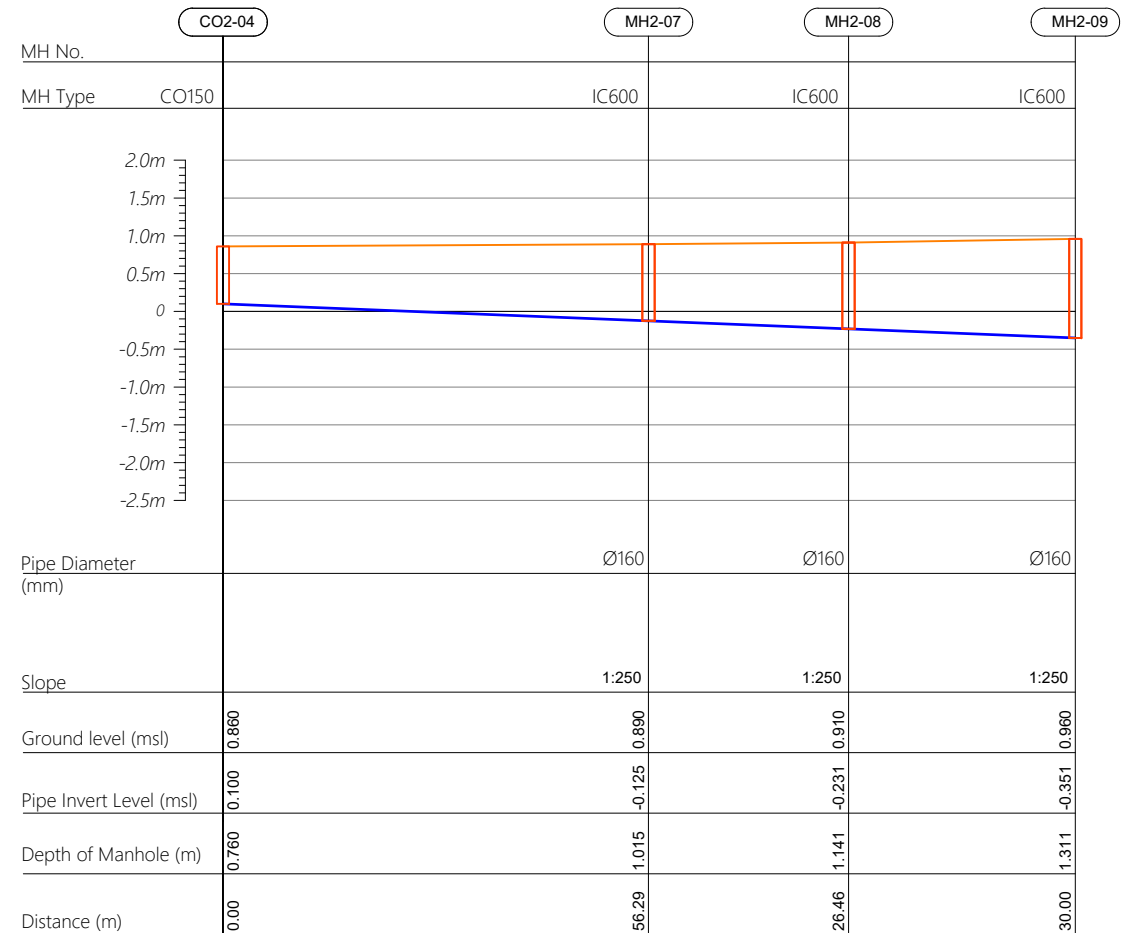
Profile 02



Profile 03



Profile 04



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
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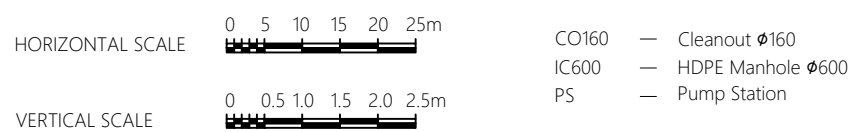
Drawn: A.R.W	Checked: M.S.S
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Designed: F.I.A	Approved: I.W
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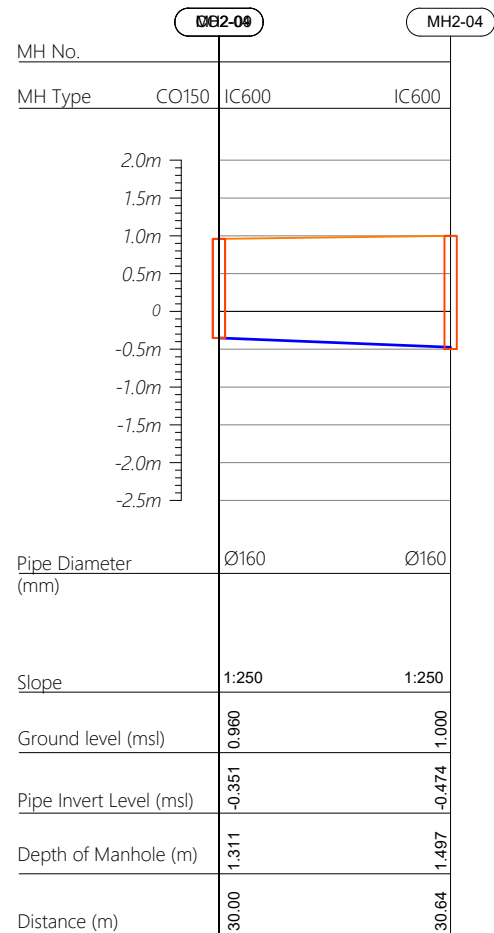
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Project No: 01010101

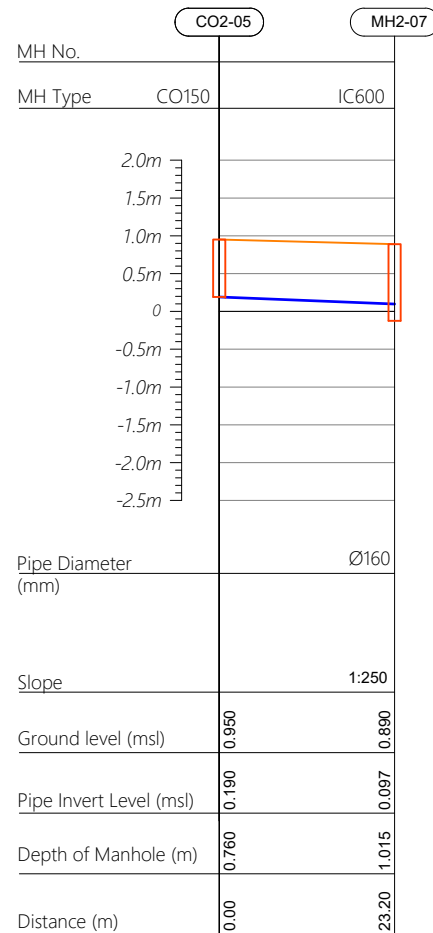
Rev: <i>R-01</i>	Page: <i>PS2-02</i>
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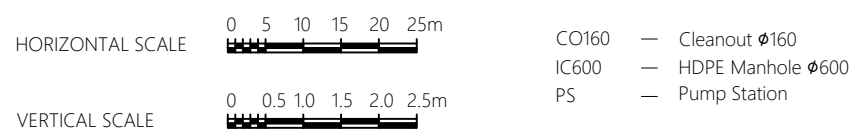
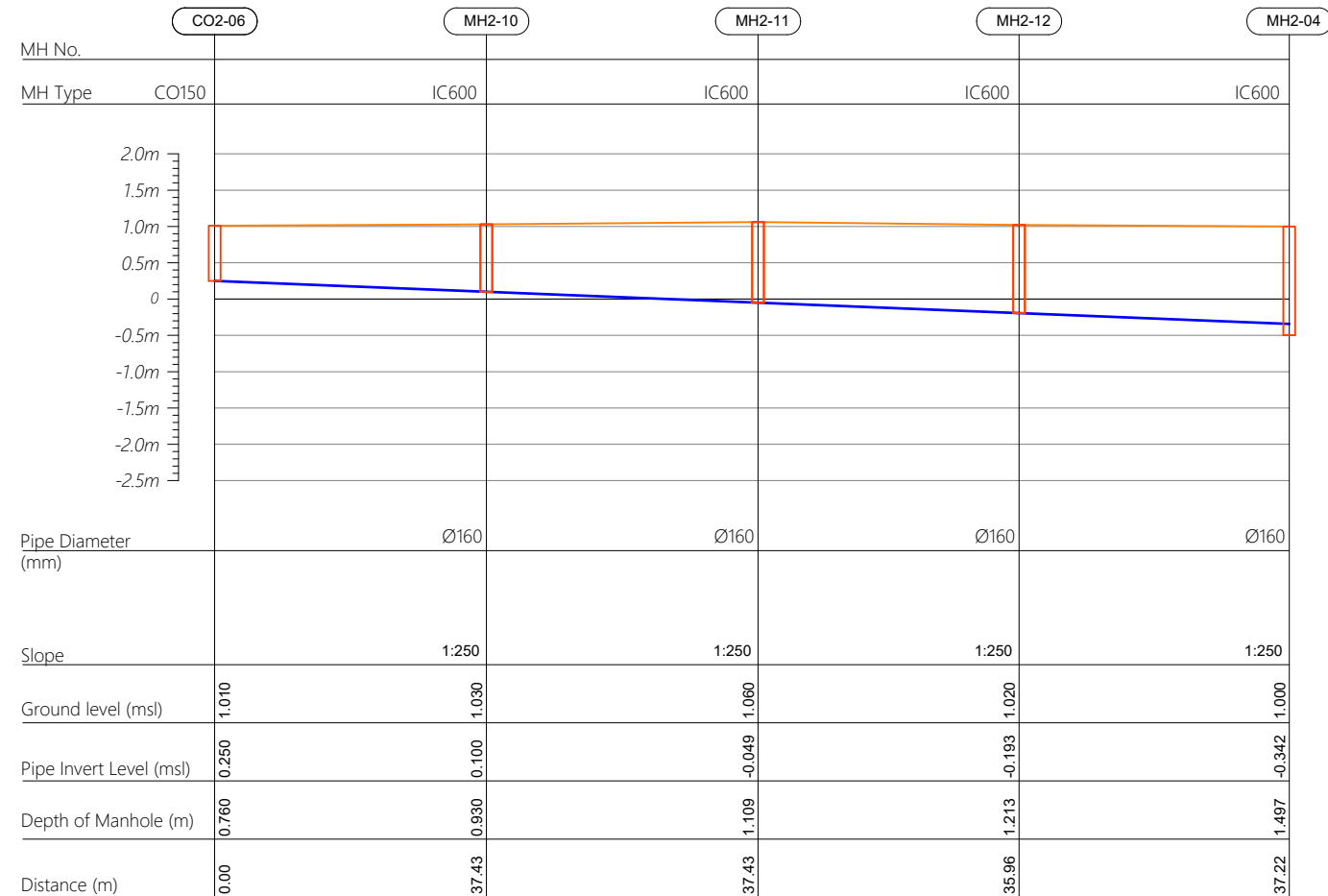
Profile 04



Profile 05



Profile 06



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
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Drawn: A.R.W	Checked: M.S.S
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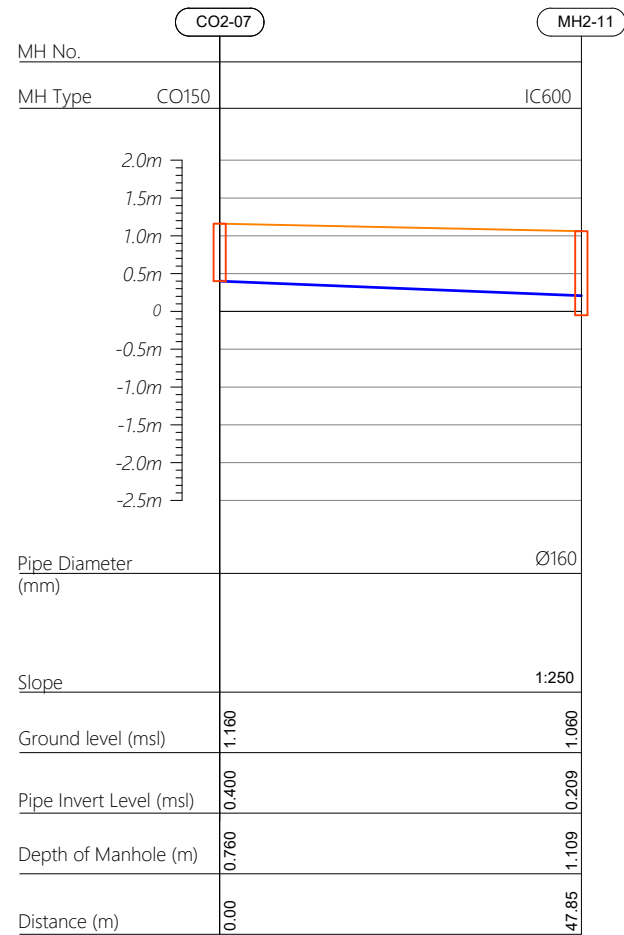
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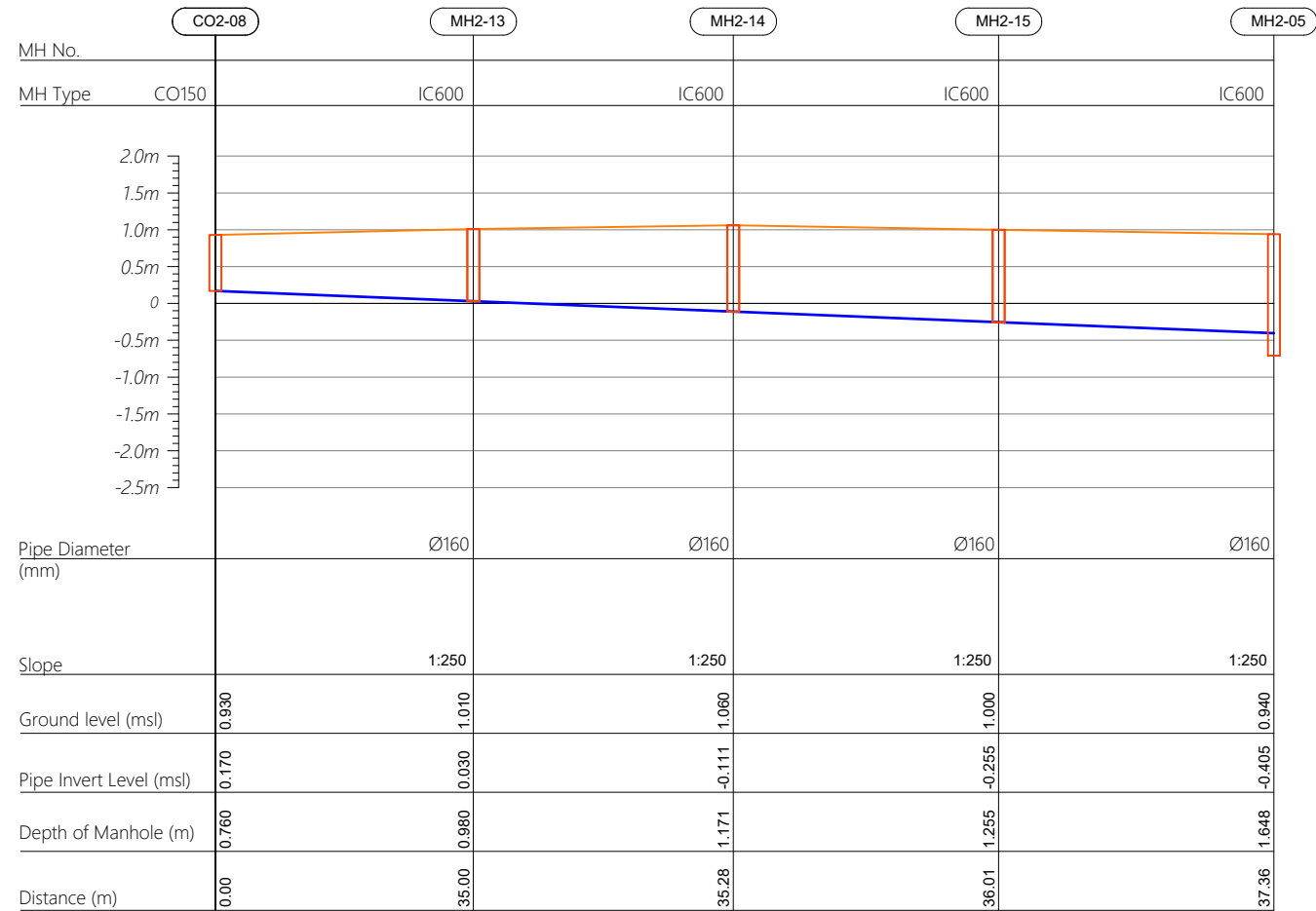
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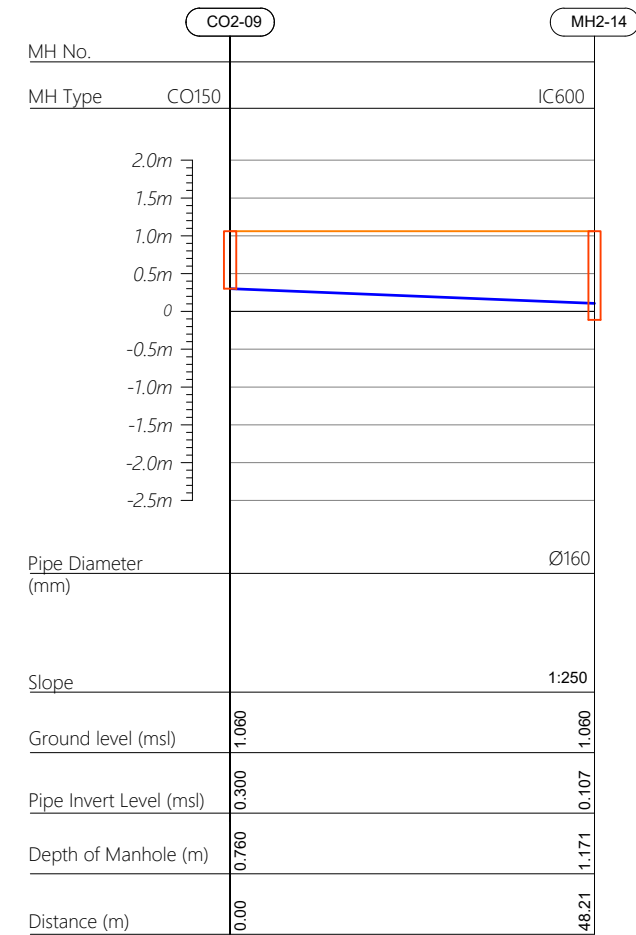
Profile 07



Profile 08



Profile 09



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
*Consultancy Services for Survey,
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Drawn: A.R.W	Checked: M.S.S
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Designed: F.I.A	Approved: I.W
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Date: Aug 2020	SCALE (A3): 1:100
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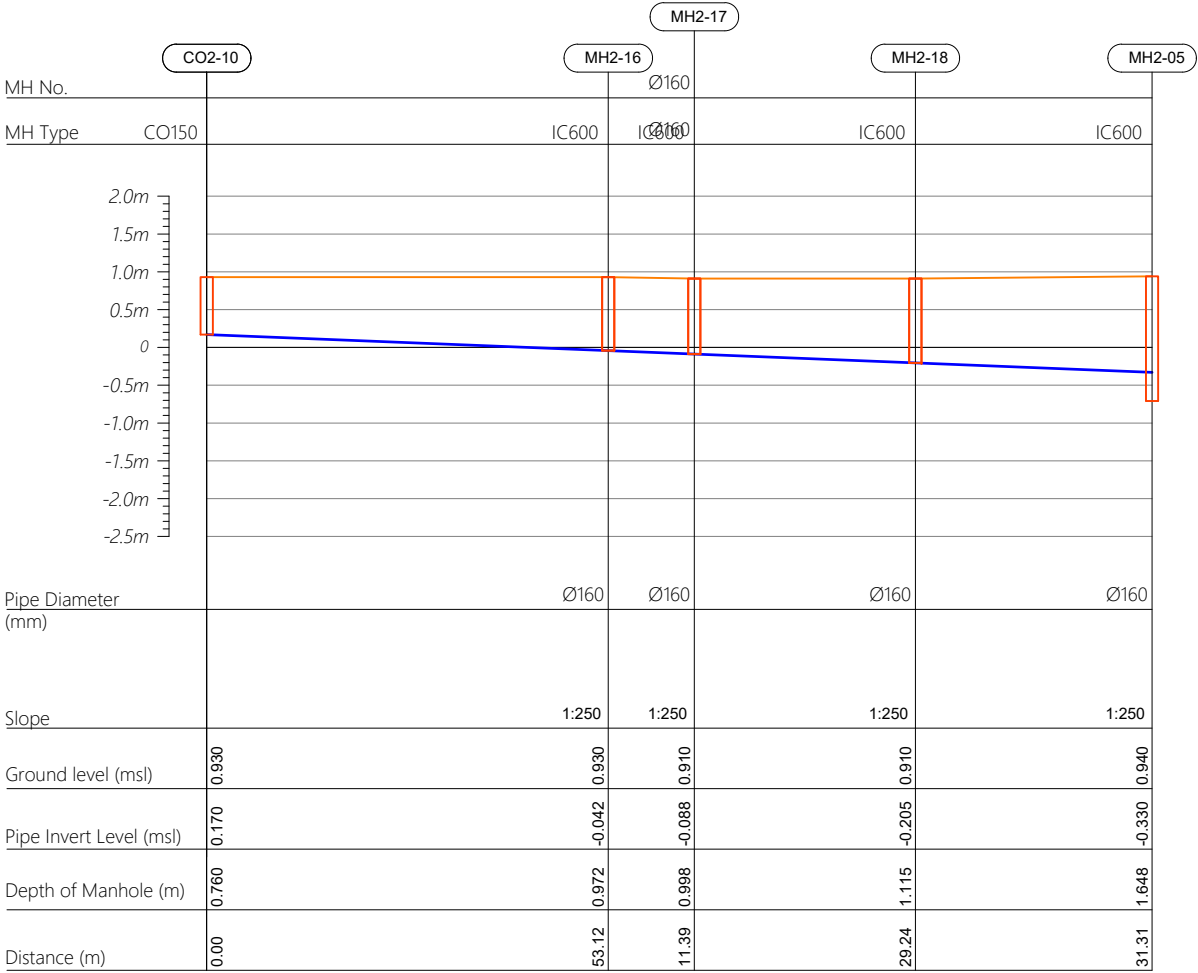
Project No: 01010101

Rev:	Page:
R-01	PS2-04

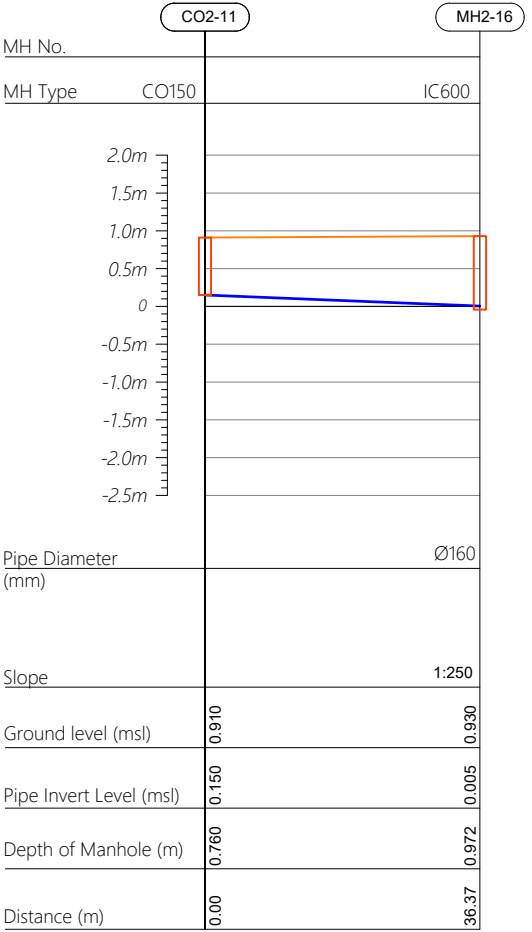


CO160 — Cleanout ϕ 160
IC600 — HDPE Manhole ϕ 600
PS — Pump Station

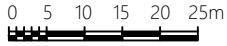
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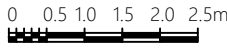
Profile 11



HORIZONTAL SCALE



VERTICAL SCALE



CO160 — Cleanout Ø160
IC600 — HDPE Manhole Ø600
PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

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Sub Title:
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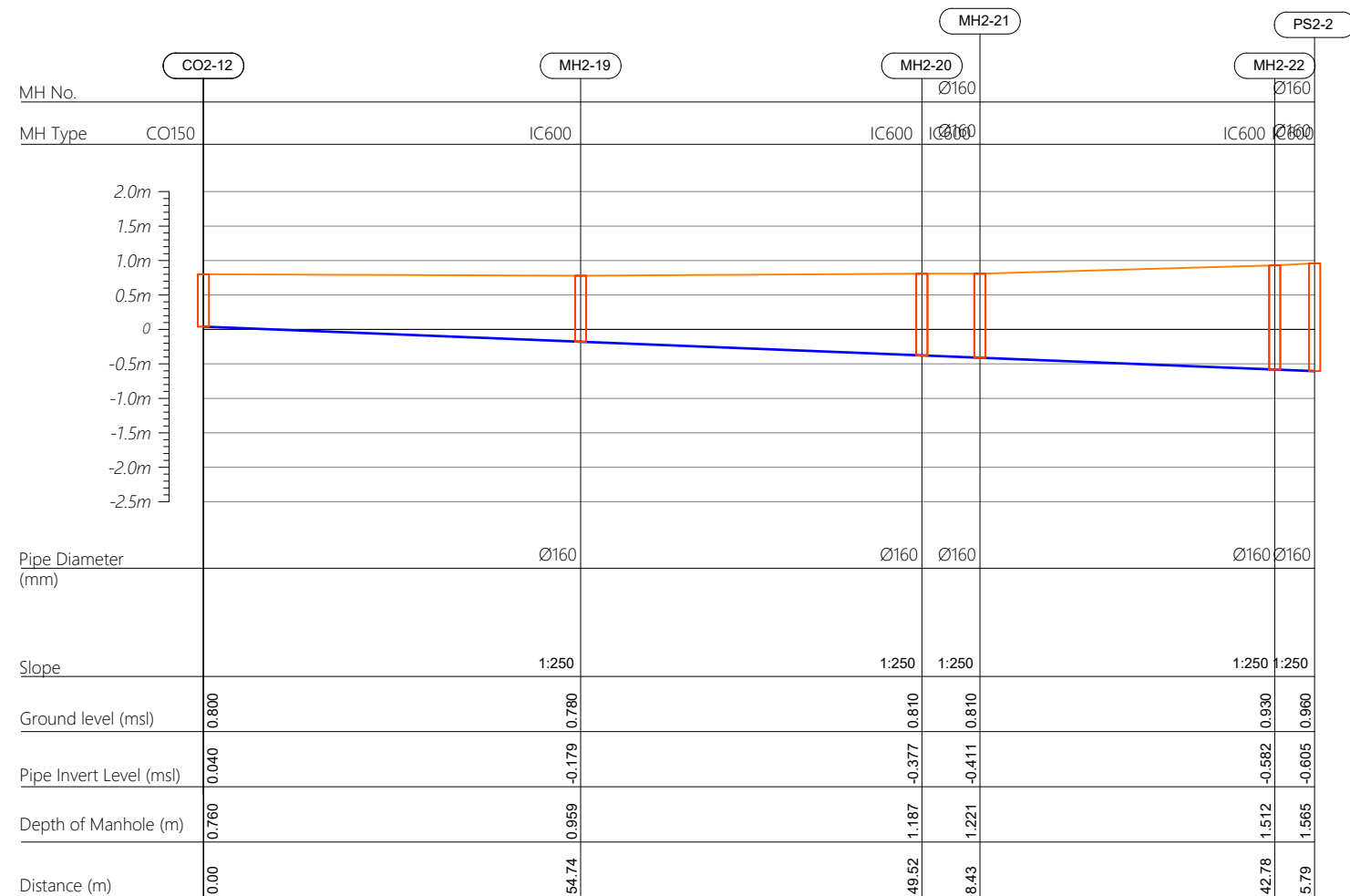
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Designed: F.I.A
Date: Aug 2020
Project No: 01010101

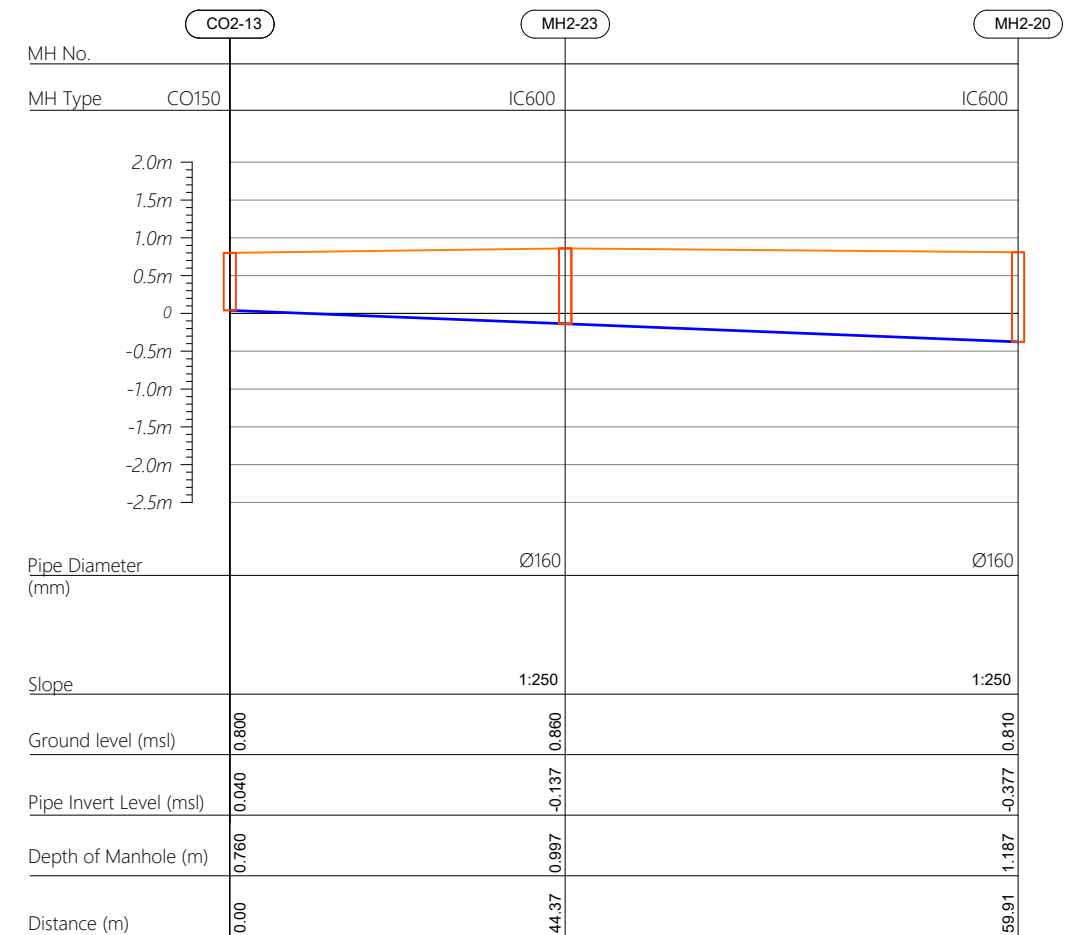
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SCALE (A3): 1:100

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Profile 12



Profile 13



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
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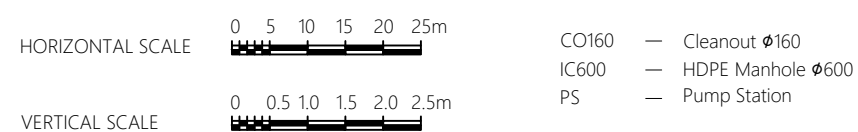
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Designed: F.J.A	Approved: J.W
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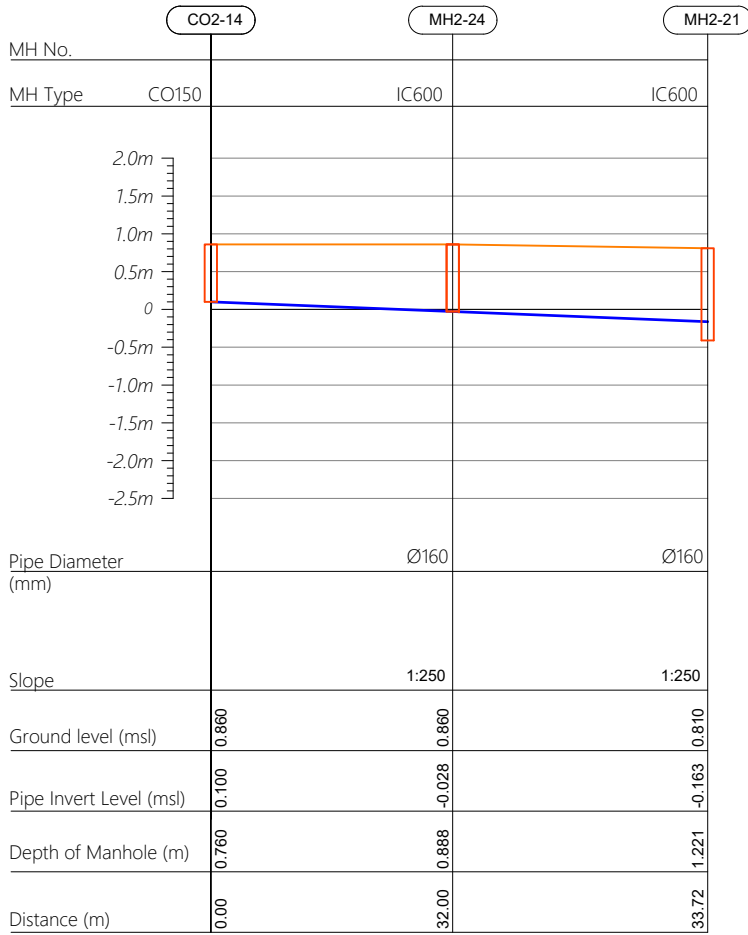
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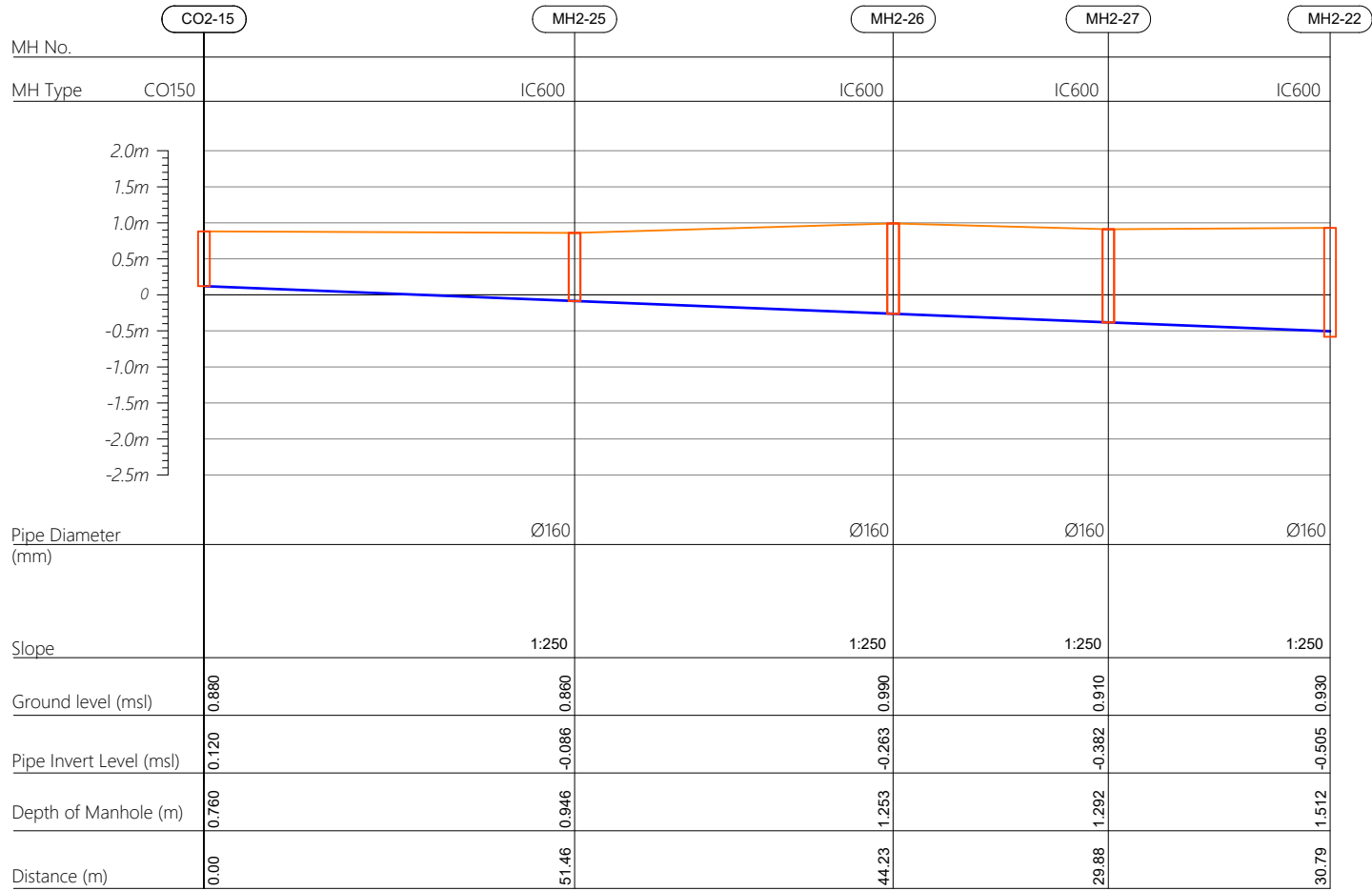
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Profile 14



Profile 15



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title: *Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 5 islands, Maldives - Package 6*

Sub Title:
Sewerage System in L.Hithadhoo

Client:
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Drawn: A.R.W	Checked: M.S.S
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Designed: F.I.A	Approved: I.W
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Date: Aug 2020 SCALE (A3): 1:100

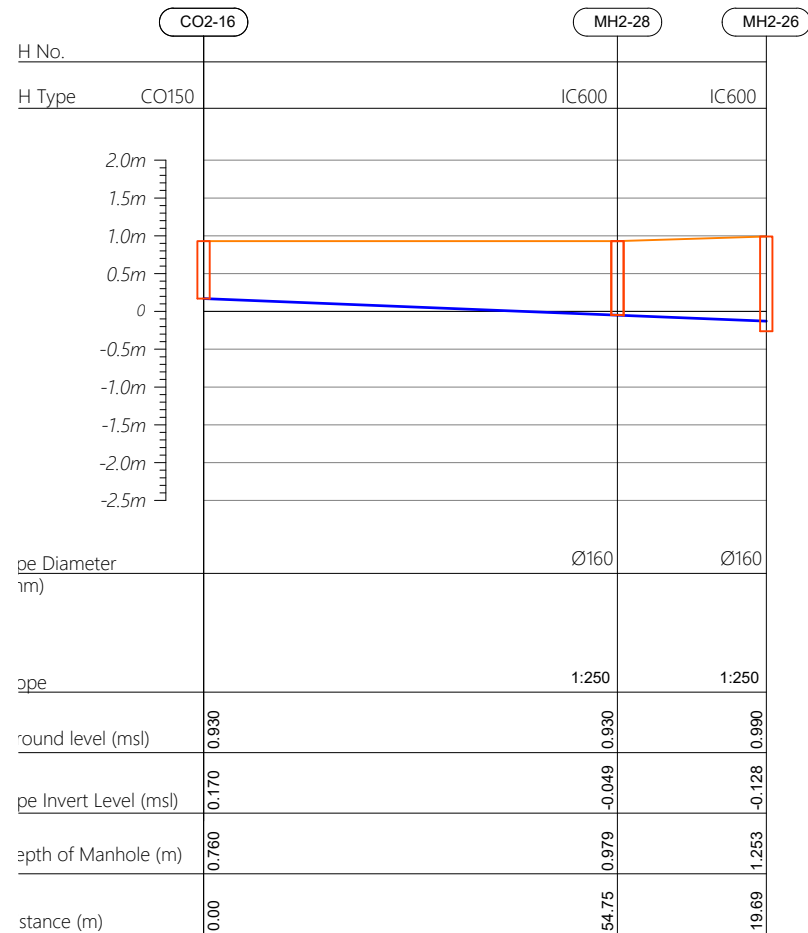
Project No: 01010101

Rev: <i>R-01</i>	Page: <i>PS2-07</i>
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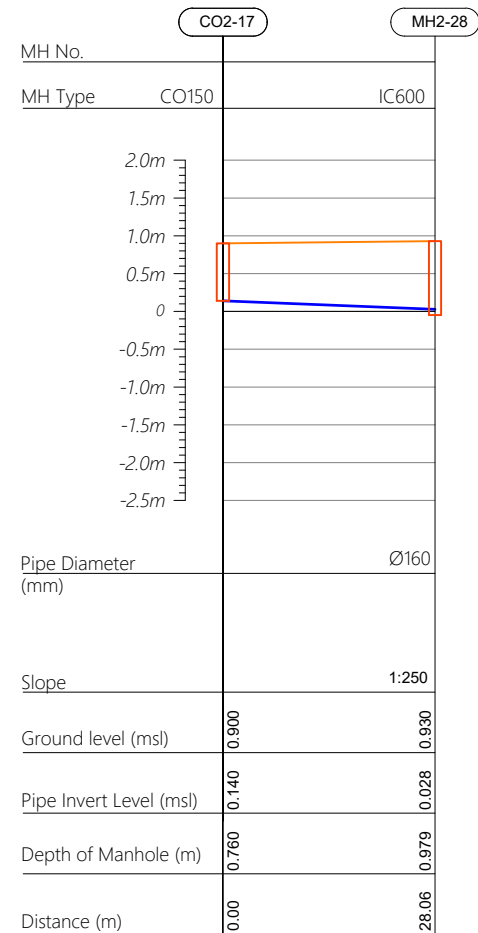
HORIZONTAL SCALE  CO160 — Cleanout ϕ 160
IC600 — HDPE Manhole ϕ 600
PS — Pump Station

VERTICAL SCALE 

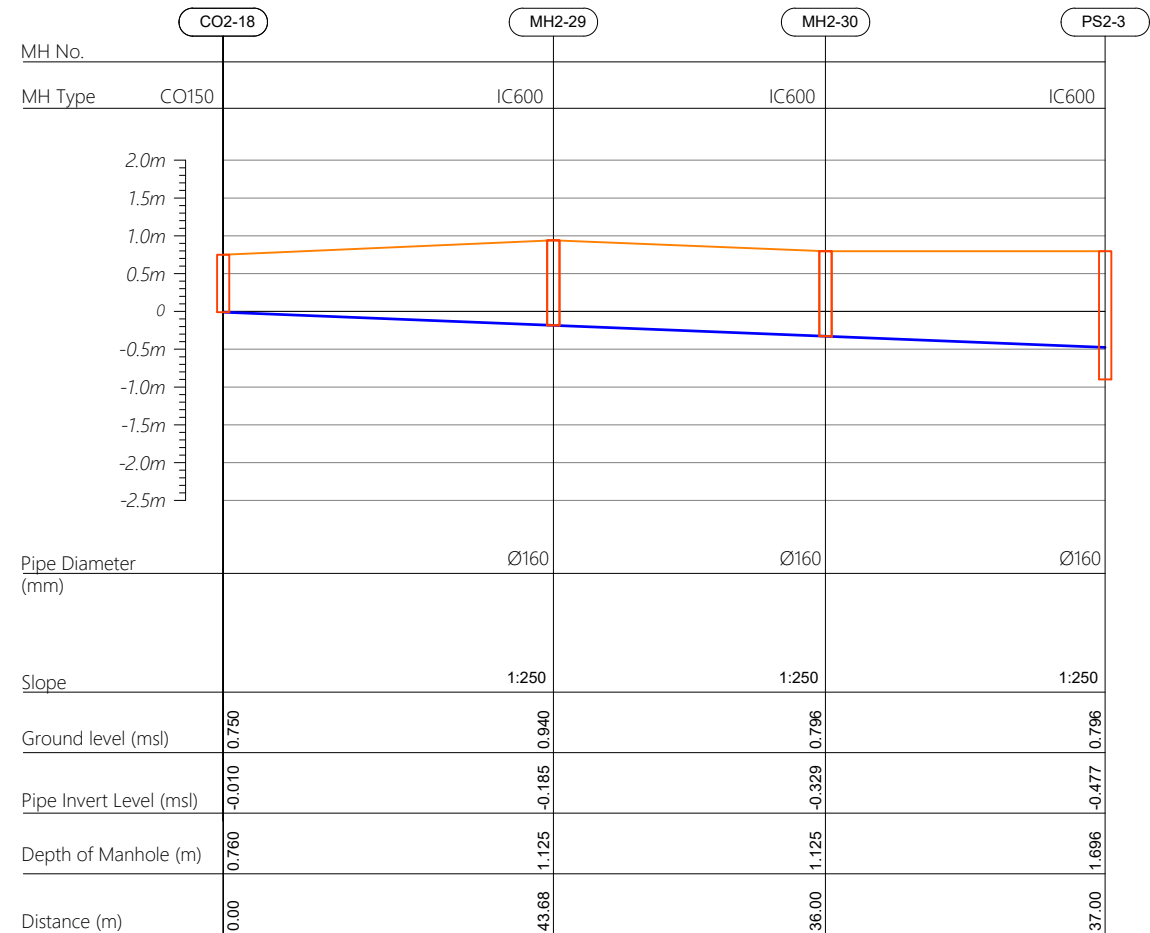
Profile 16



Profile 17



Profile 18



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
*Consultancy Services for Survey,
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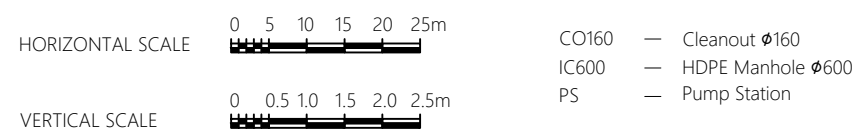
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Designed: F.I.A	Approved: J.W
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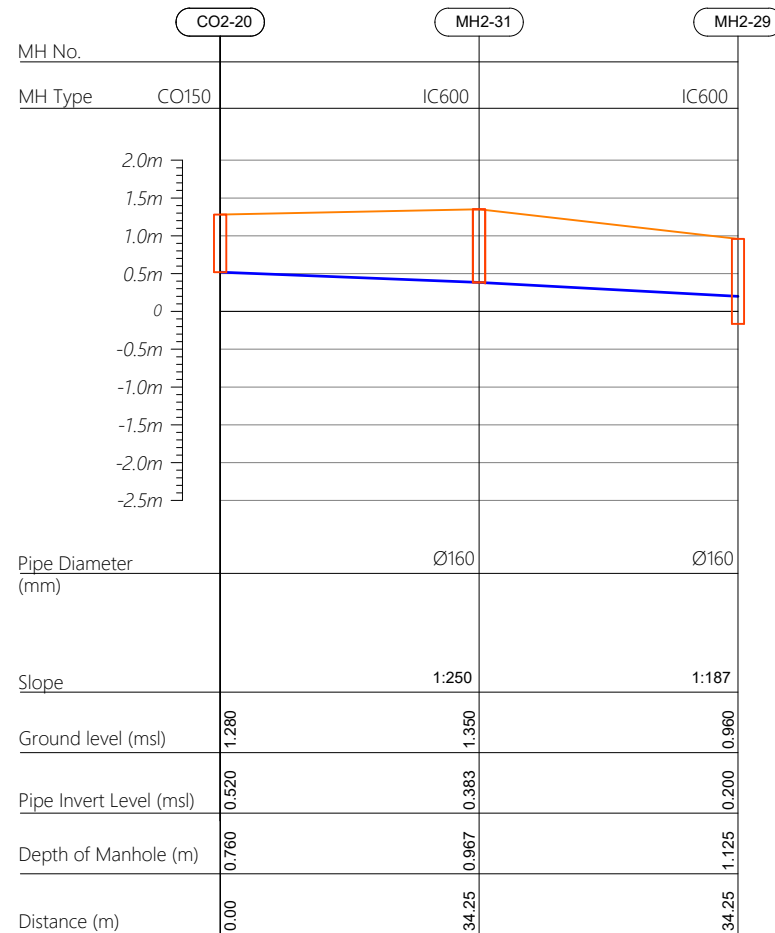
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Project No: 01010101

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Profile 20



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Sub Title:
Sewerage System in L.Hithadhoo

Client:
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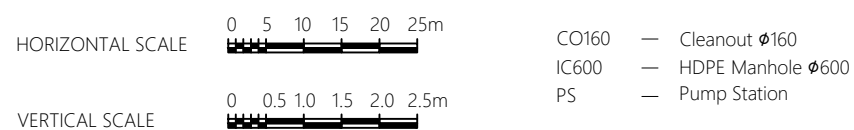
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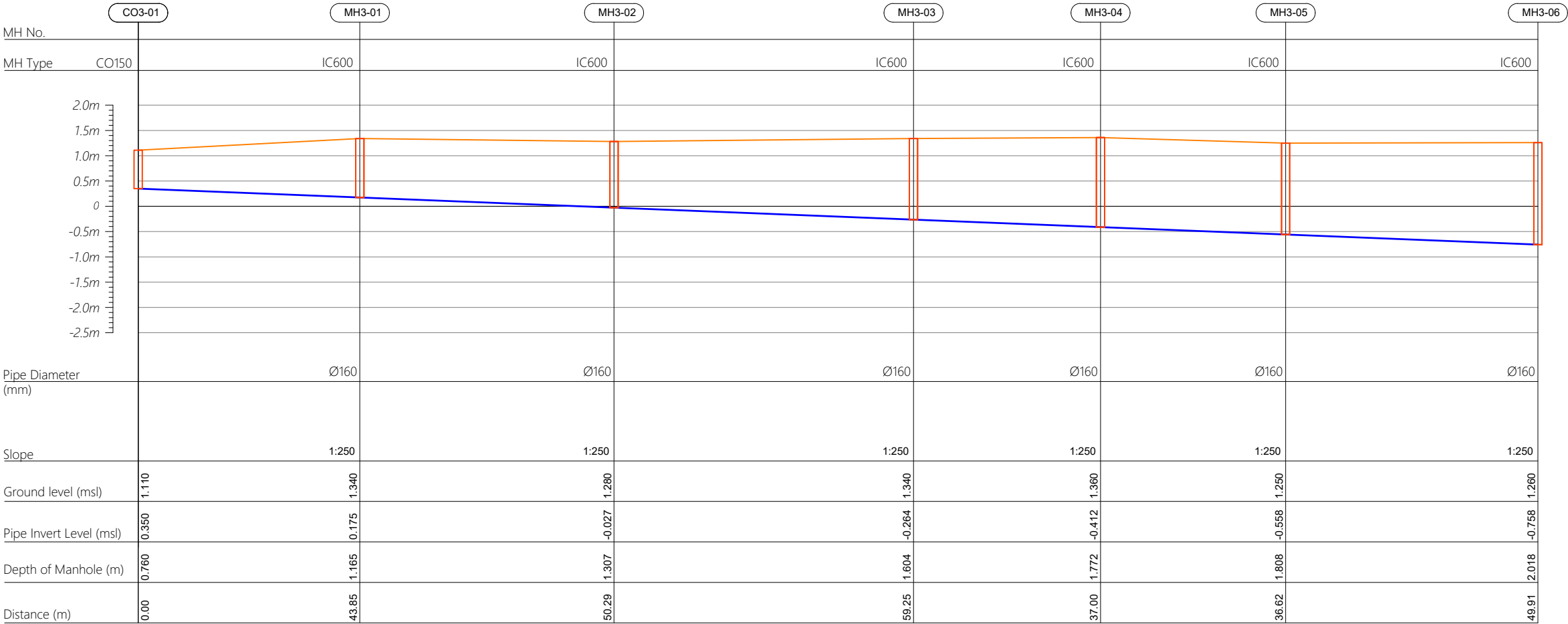
Date: Aug 2020	SCALE (A3): 1:100
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Project No: 01010101

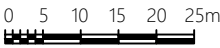
Rev.	Page:
R-01	PS2-09



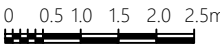
Profile 01



HORIZONTAL SCALE



VERTICAL SCALE



- CO160 — Cleanout Ø160
- IC600 — HDPE Manhole Ø600
- PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

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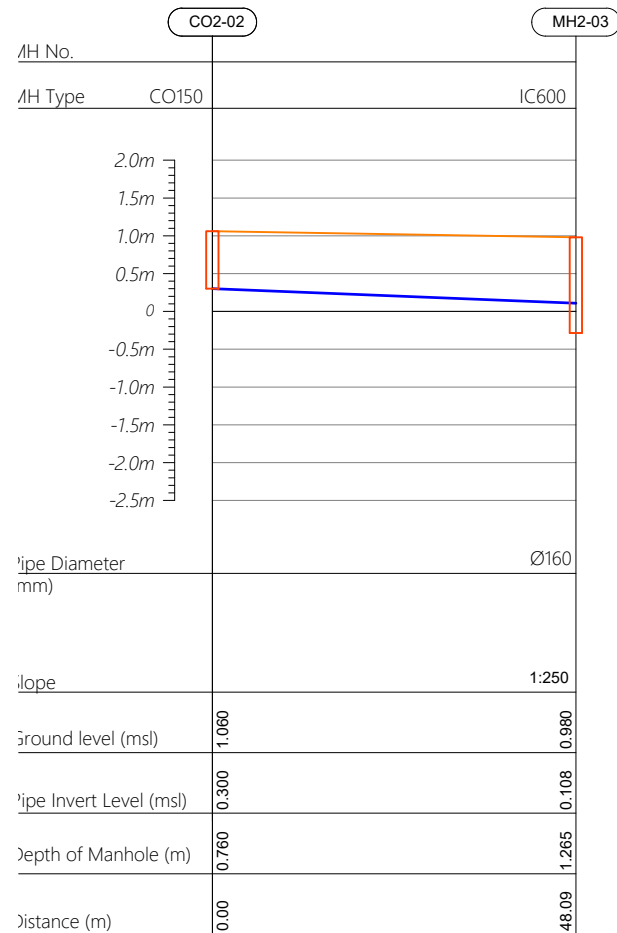
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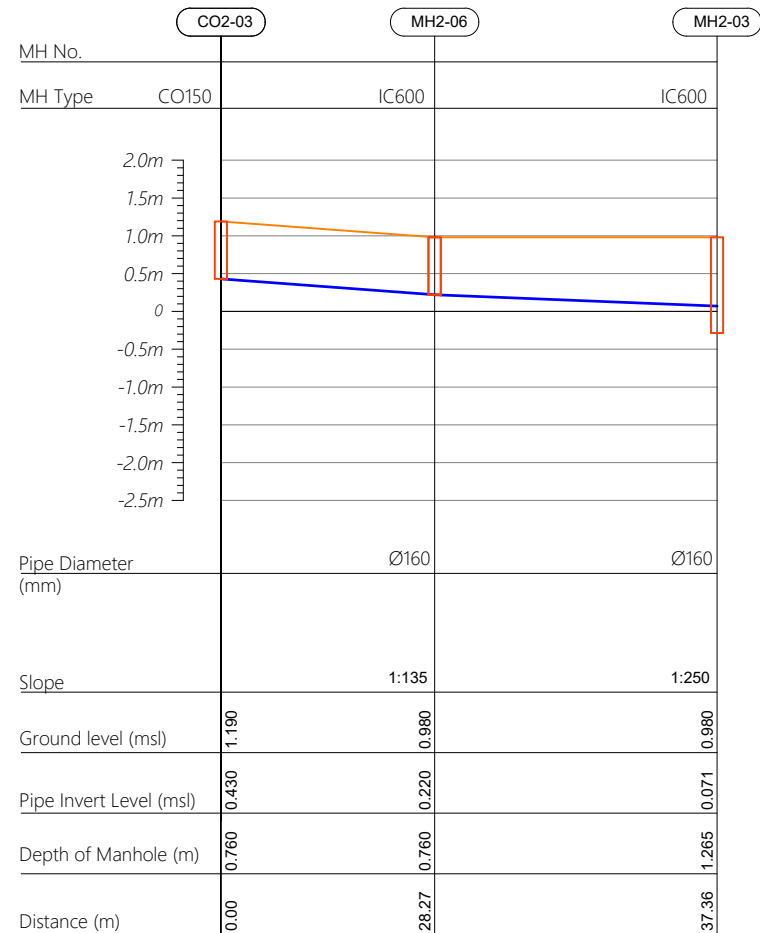
Project No: 01010101

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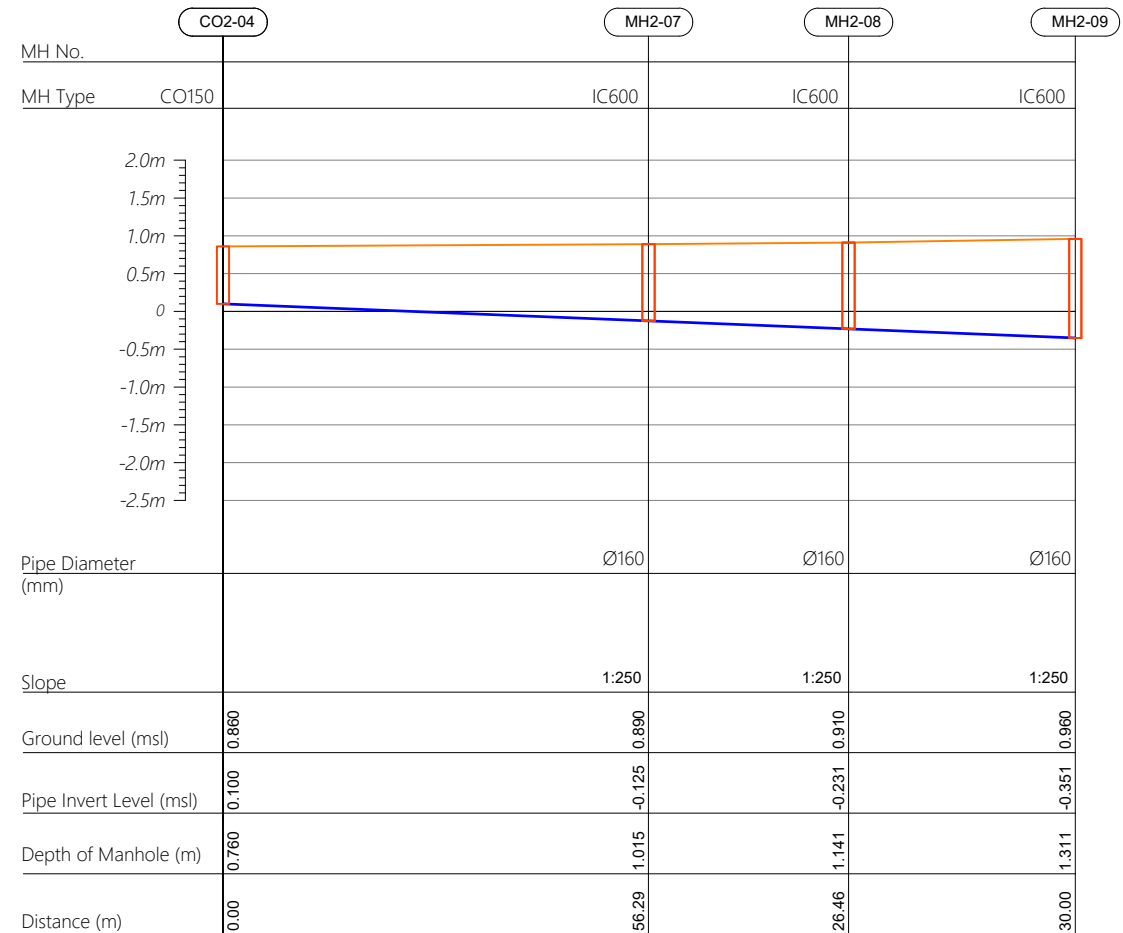
Profile 02



Profile 03



Profile 04



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
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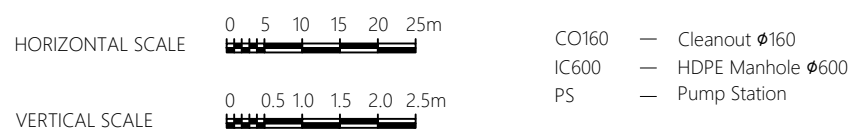
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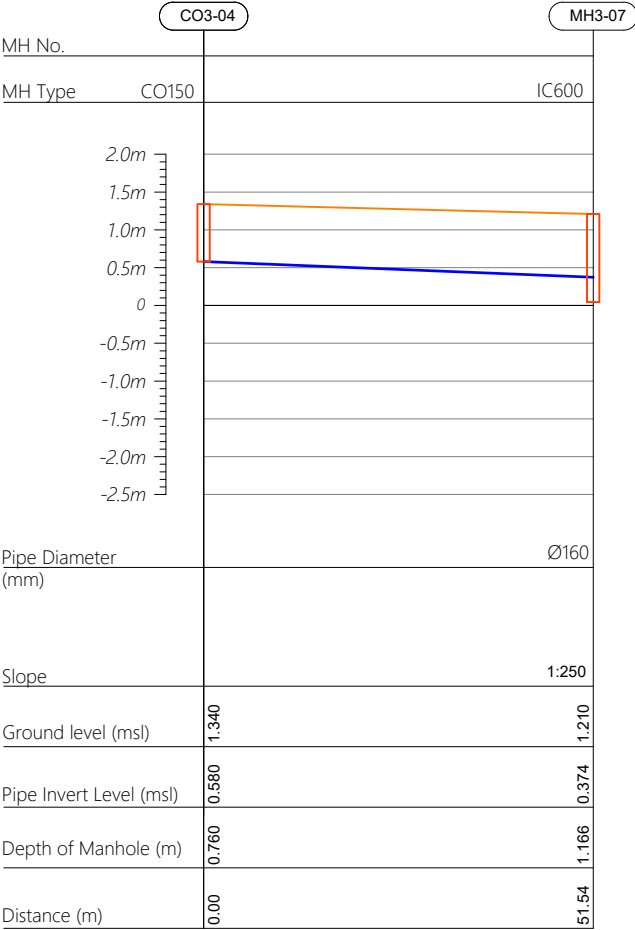
Date: Aug 2020	SCALE (A3): 1:100
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Project No: 01010101

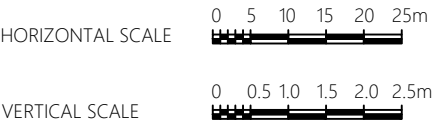
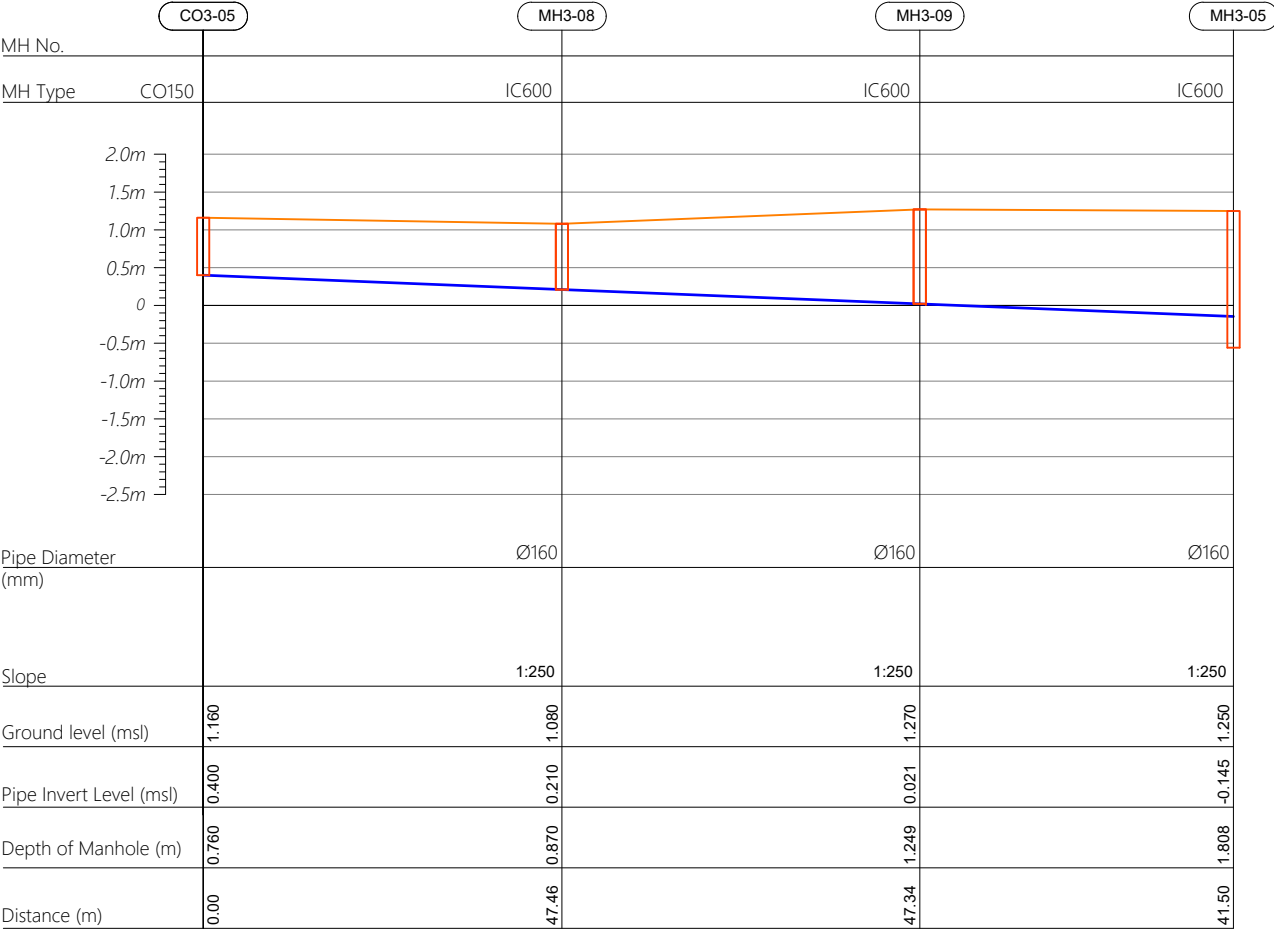
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Profile 04



Profile 05



- CO160 — Cleanout Ø160
- IC600 — HDPE Manhole Ø600
- PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

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Maldivu Infrastructure Happa

Drawn: A.R.W Checked: M.S.S

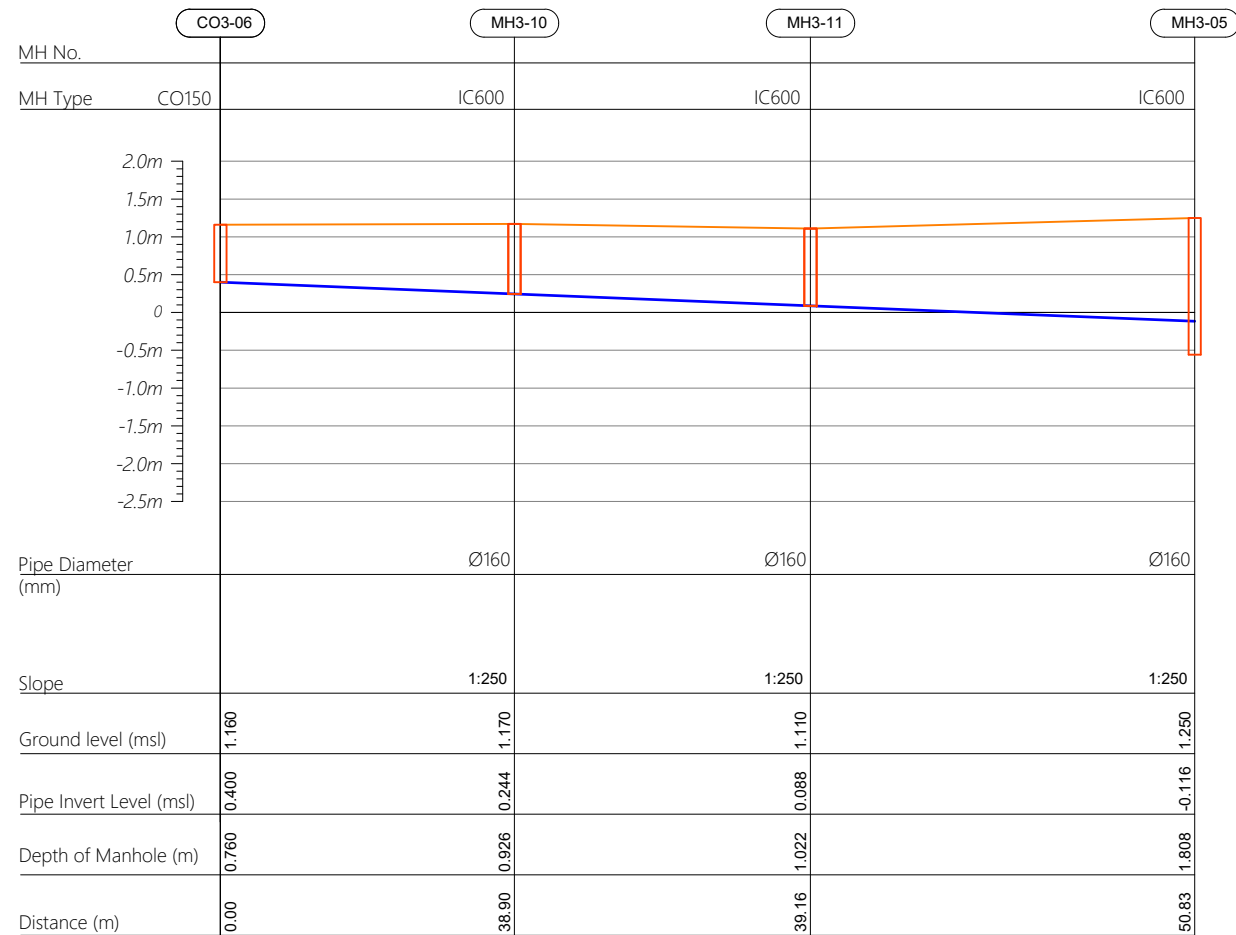
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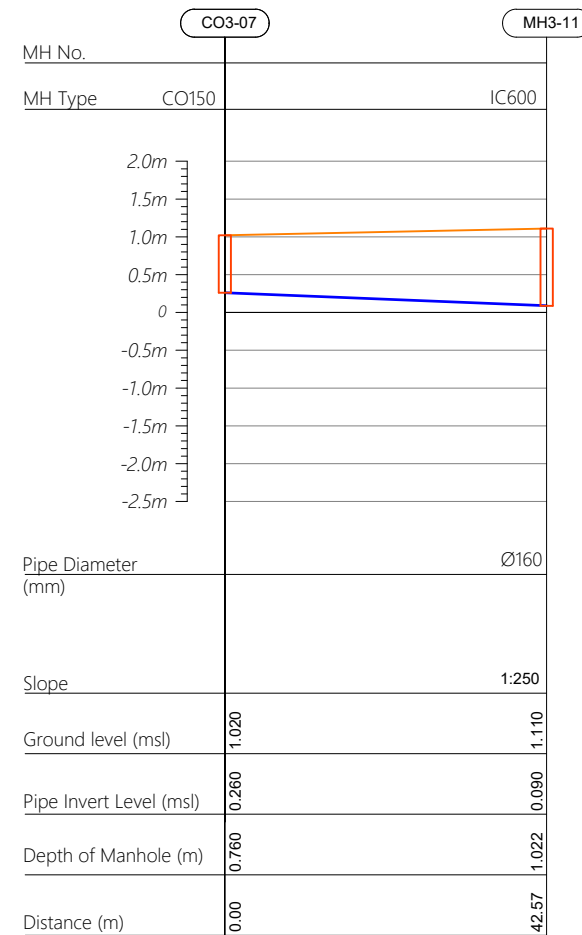
Project No: 01010101

Rev: R-01 Page: PS3-03

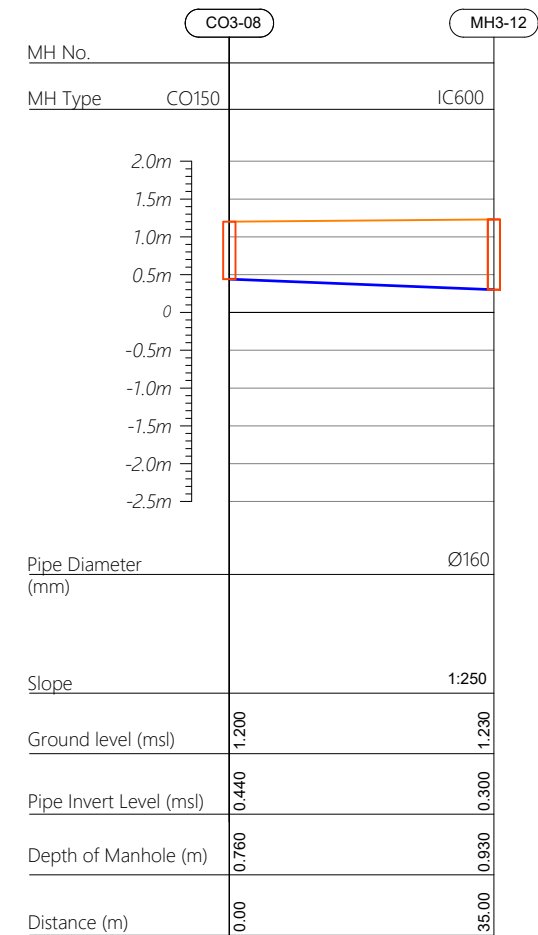
Profile 06



Profile 07



Profile 08



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

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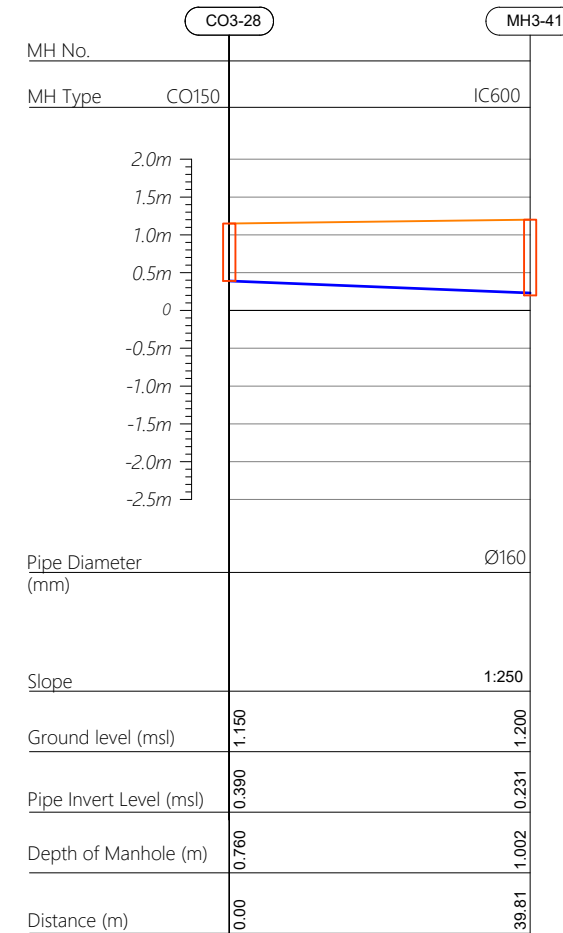
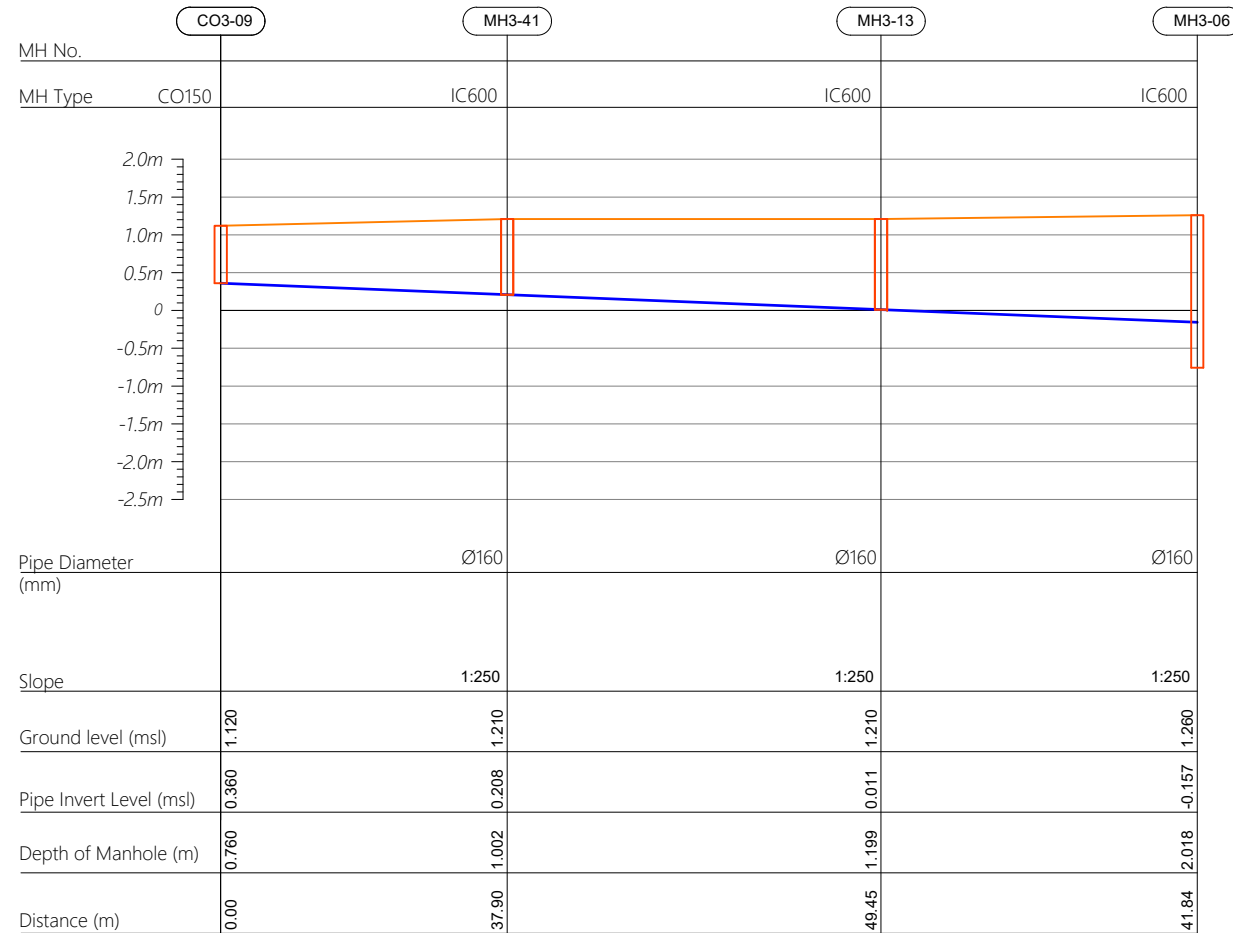
Project No: 01010101

Rev:	Page:
R-01	PS3-04



Profile 09

MH No.	CO3-08	MH3-11
MH Type	CO150	IC600
Pipe Diameter (mm)	Ø160	Ø160
Slope	1:250	1:250
Ground level (msl)	1.230	1.110
Pipe Invert Level (msl)	0.300	0.159
Depth of Manhole (m)	0.930	1.022
Distance (m)	35.00	35.28



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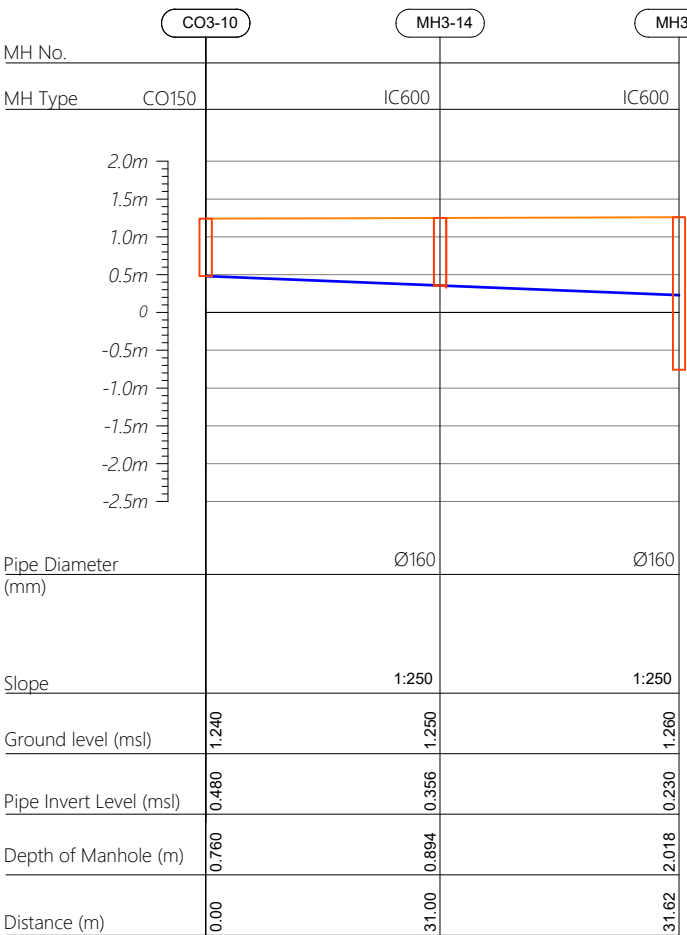
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Designed: F.I.A	Approved: I.W
Date: Aug 2020	SCALE (A3): 1:100
Project No: 01010101	

Rev: <i>R-01</i>	Page: <i>PS3-05</i>
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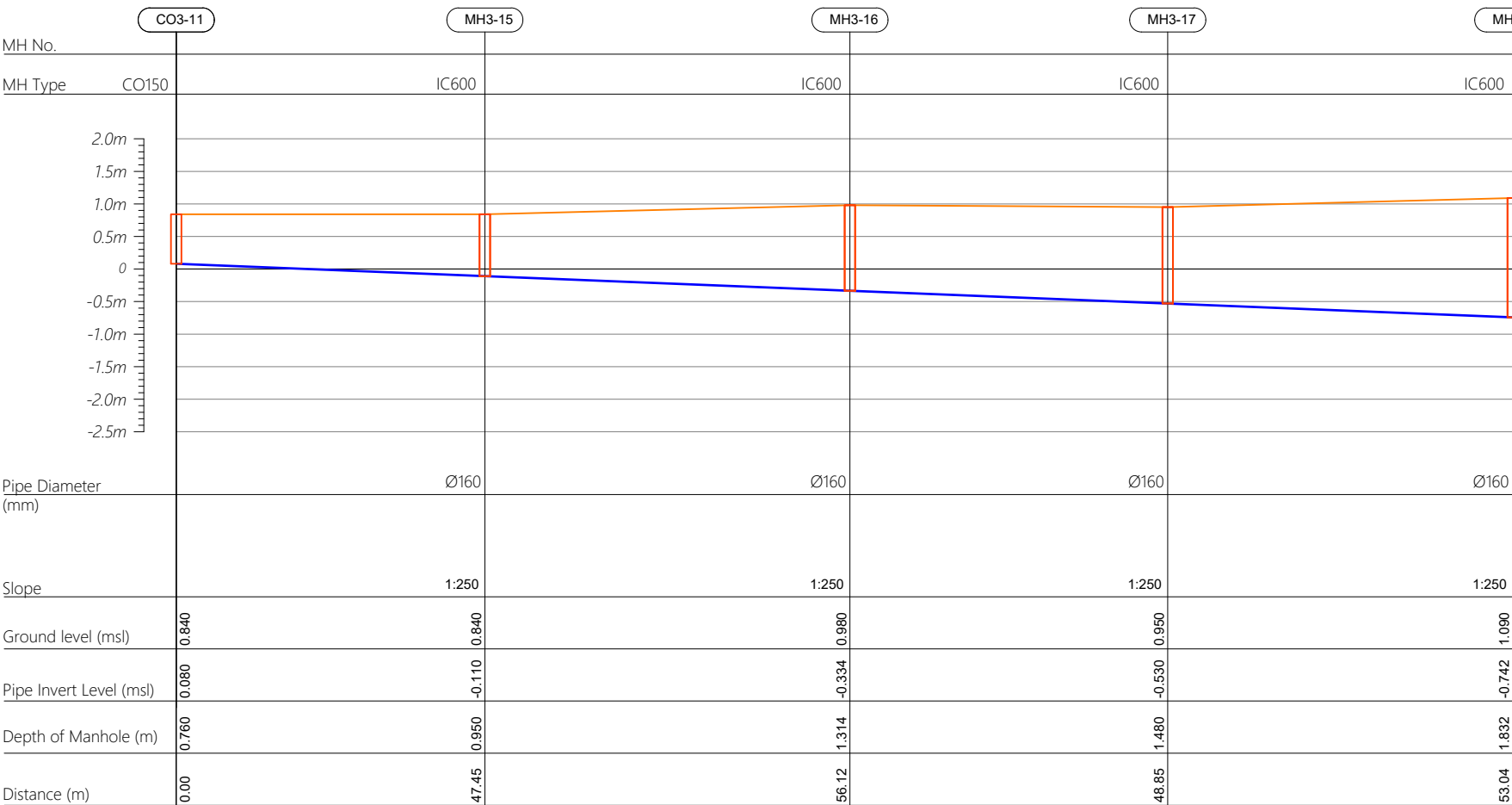


CO160 — Cleanout $\phi 160$
IC600 — HDPE Manhole $\phi 600$
PS — Pump Station

Profile 10



Profile 11



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

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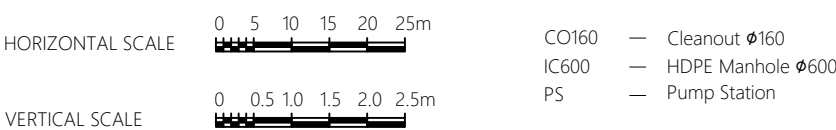
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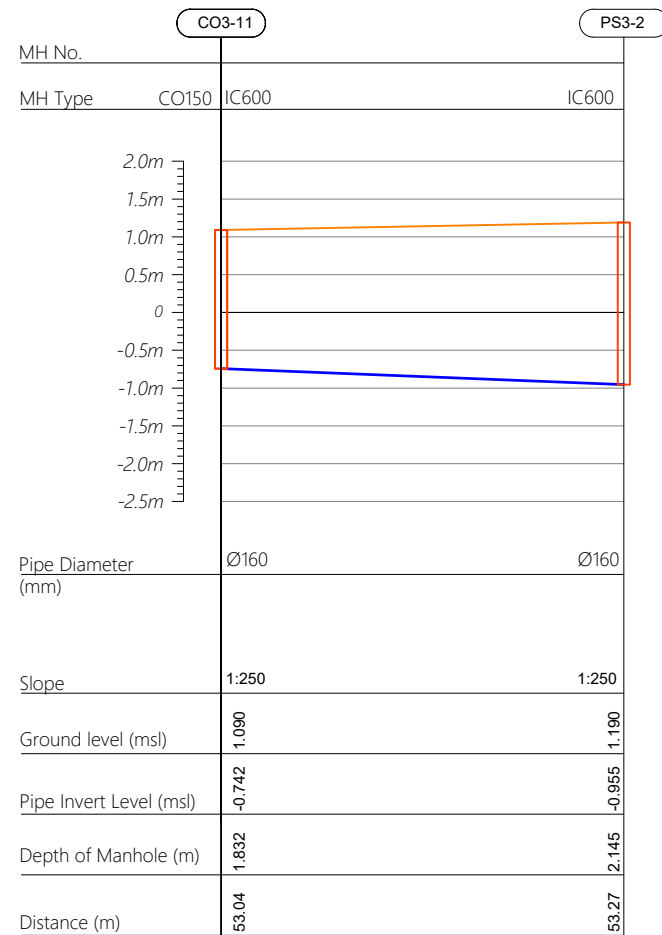
Date: Aug 2020	SCALE (A3): 1:100
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Project No: 01010101

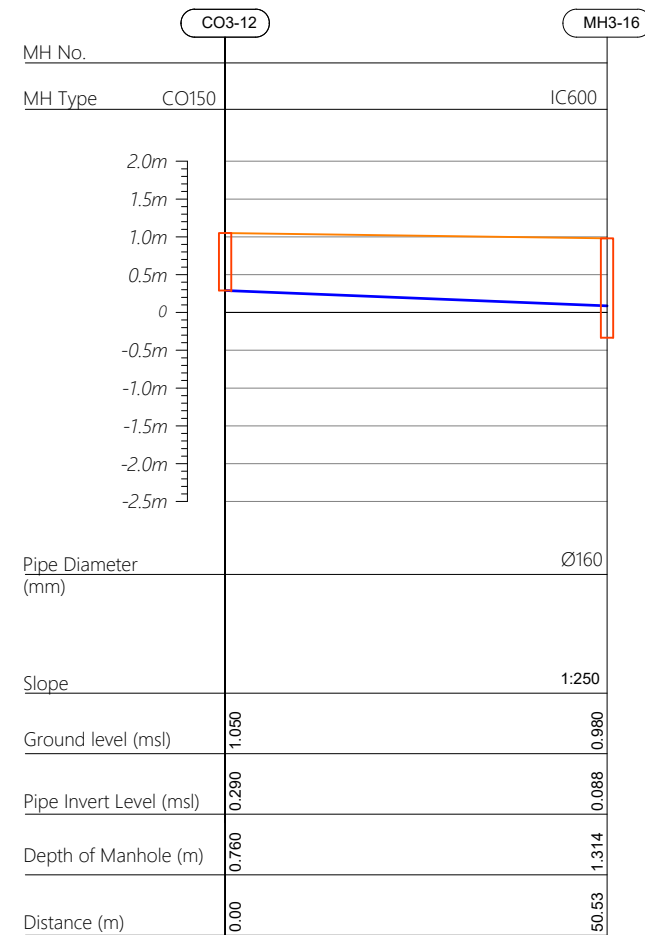
Rev:	Page:
R-01	PS3-06



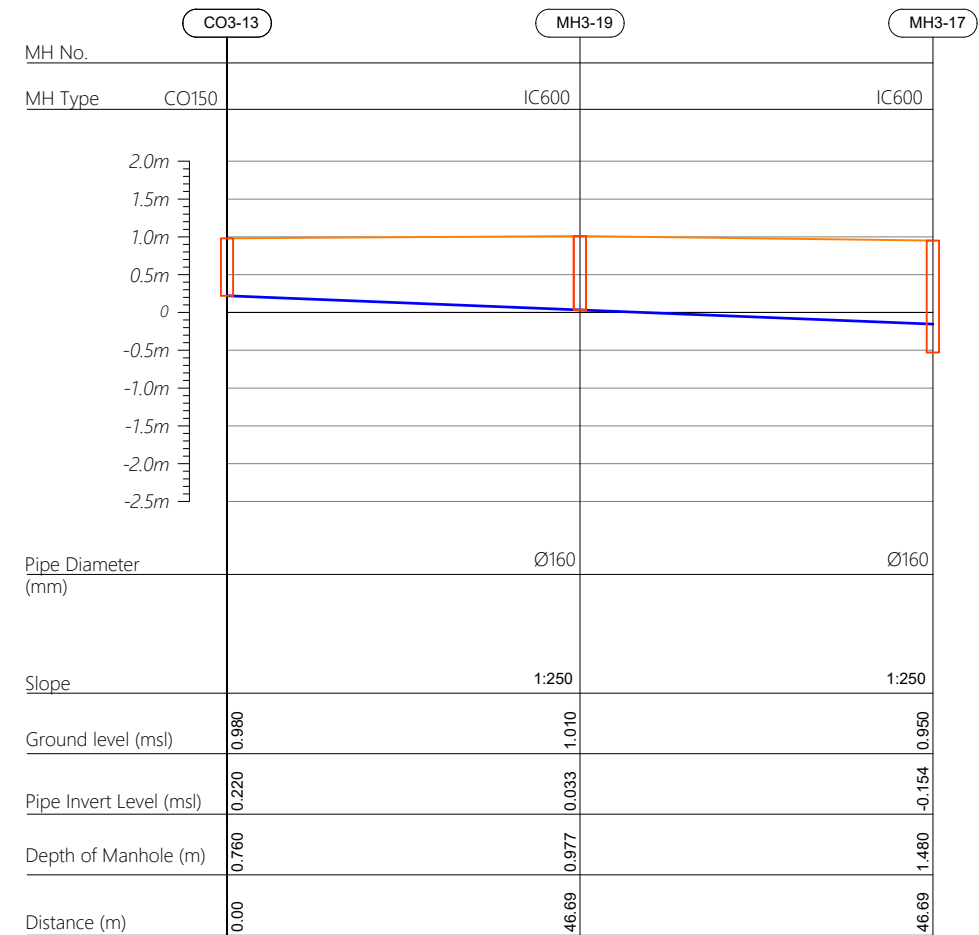
Profile 11



Profile 12



Profile 13



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
*Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
5 islands, Maldives - Package 6*

Sub Title:
Sewerage System in L.Hithadhoo

Client:
*Ministry of National Planning, Housing and
Infrastructure, Republic of Maldives*



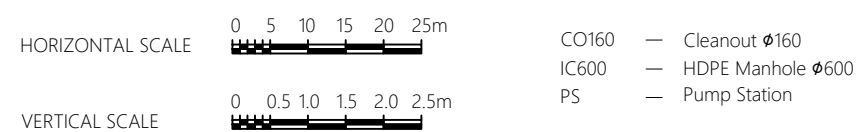
Drawn: A.R.W	Checked: M.S.S
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Designed: F.I.A	Approved: I.W
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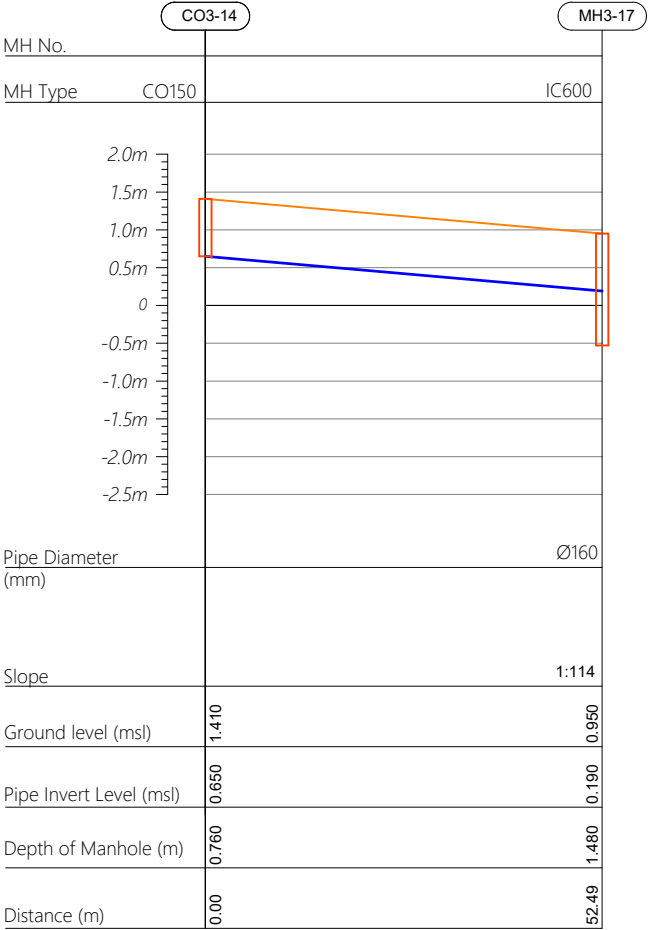
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Project No: 01010101

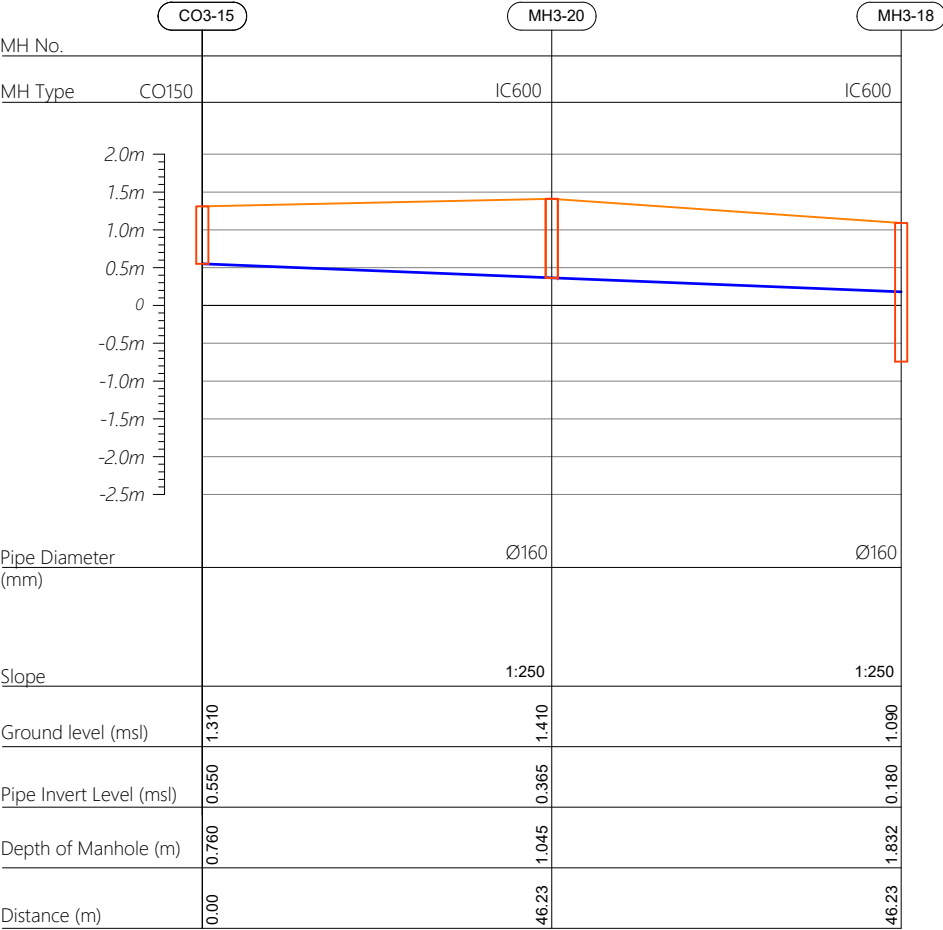
Rev: <i>R-01</i>	Page: <i>PS3-07</i>
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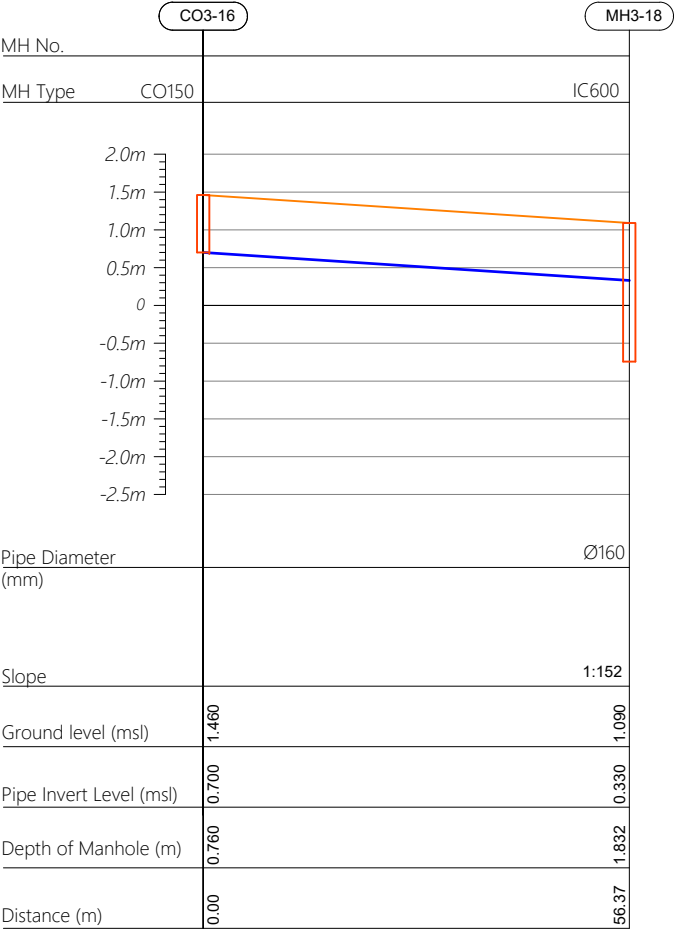
Profile 14



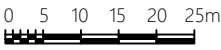
Profile 15



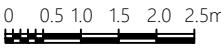
Profile 16



HORIZONTAL SCALE



VERTICAL SCALE



- CO160 — Cleanout Ø160
- IC600 — HDPE Manhole Ø600
- PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 5 islands, Maldives - Package 6

Sub Title:
Sewerage System in L.Hithadhoo

Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives



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W: www.epoch.associates
A: G. Rosary West,
Husnuheemaa Magu, Male', Maldives



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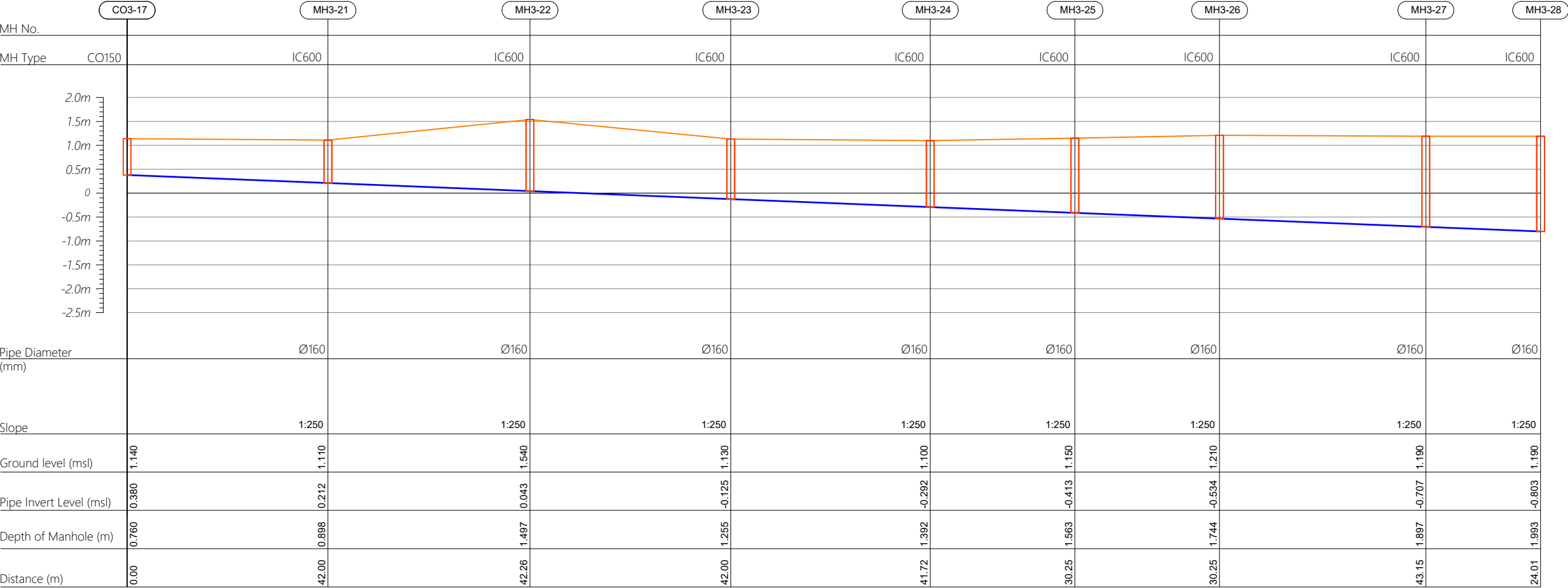
Designed: F.I.A Approved: I.W

Date: Aug 2020 SCALE (A3): 1:100

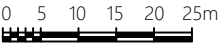
Project No: 01010101

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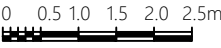
Profile 17



HORIZONTAL SCALE



VERTICAL SCALE



- CO160 — Cleanout Ø160
- IC600 — HDPE Manhole Ø600
- PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 5 islands, Maldives - Package 6

Sub Title:
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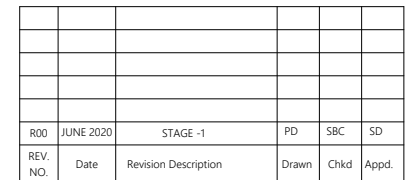
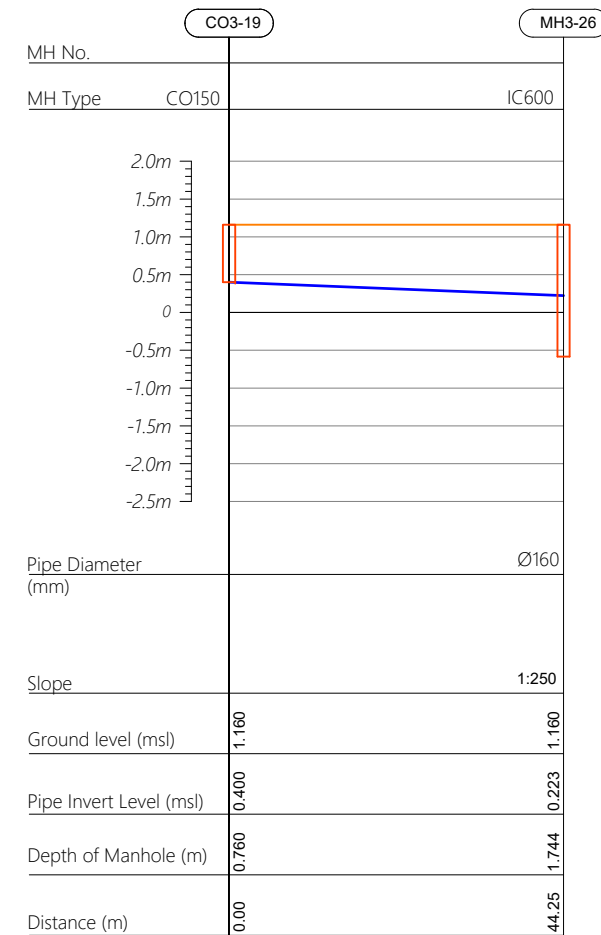
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Date: Aug 2020 SCALE (A3): 1:100

Project No: 01010101

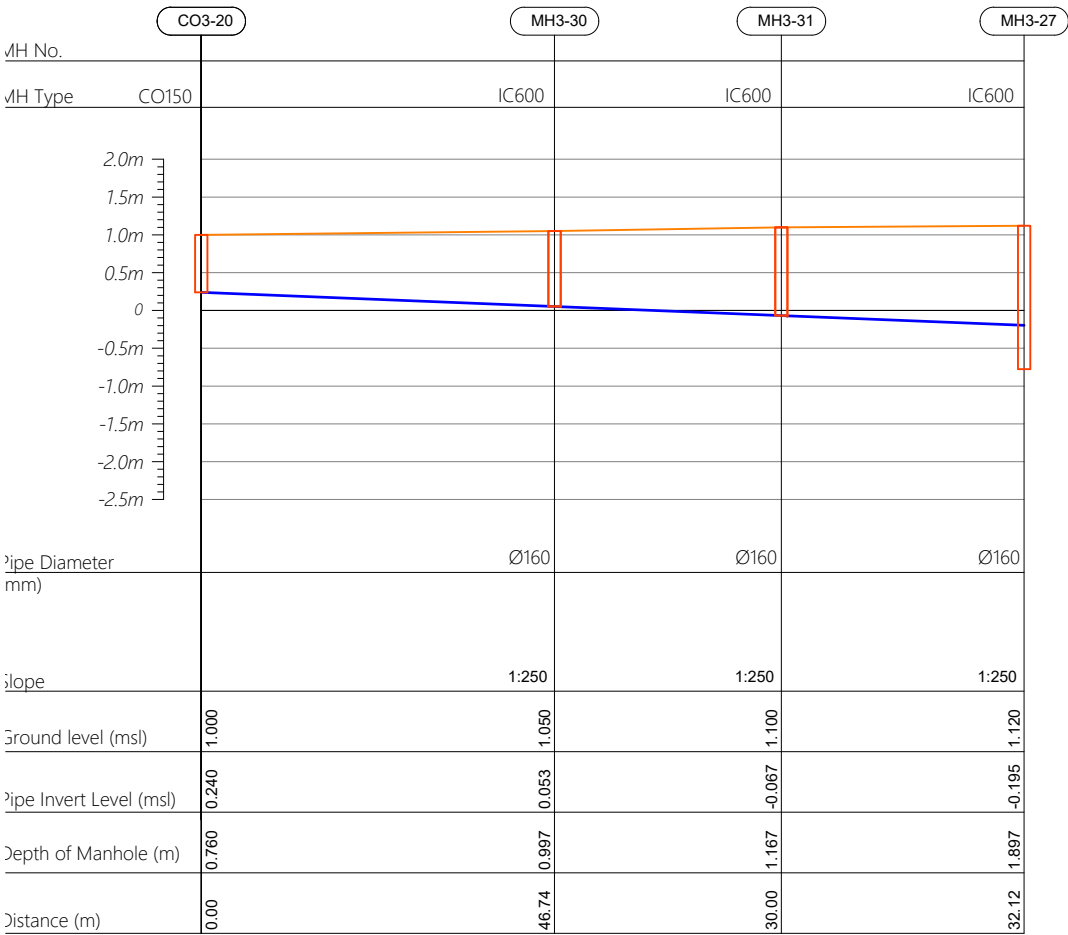
Rev: R-01 Page: PS3-09

Profile 19

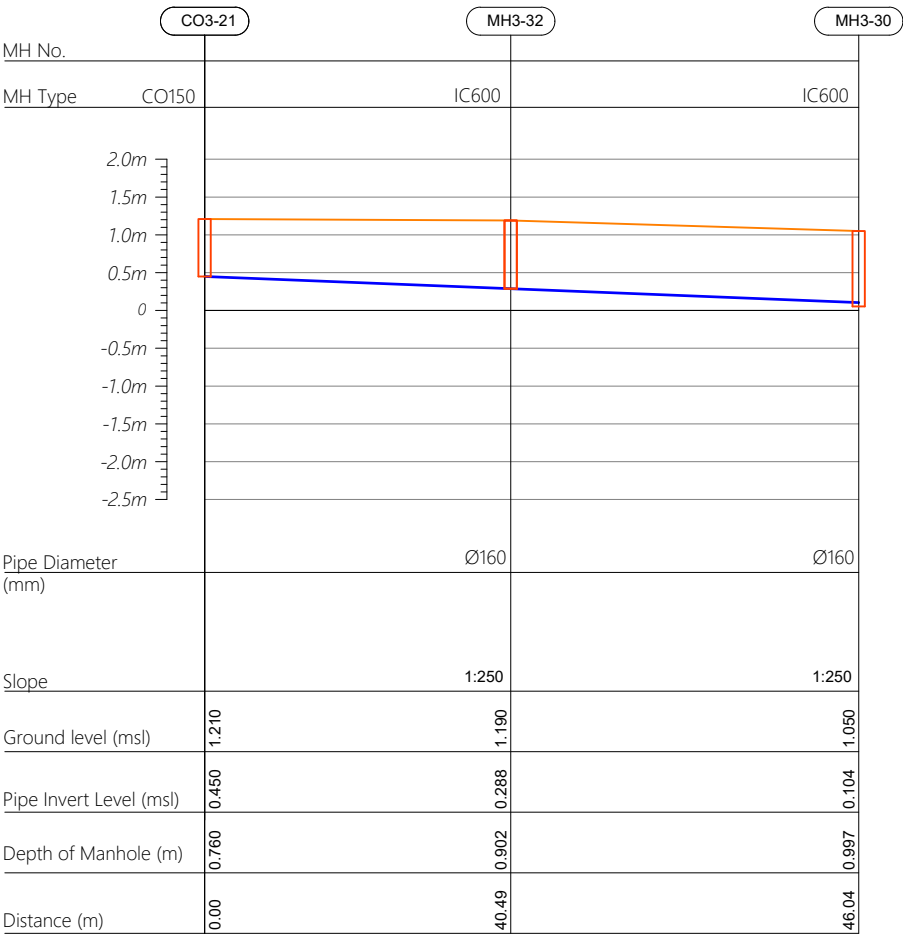


Rev:	Page:
R-01	PS3-10

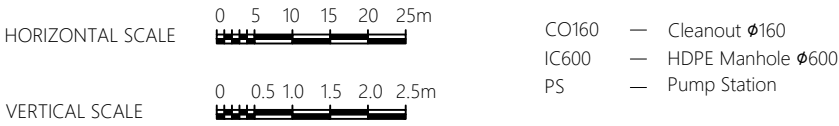
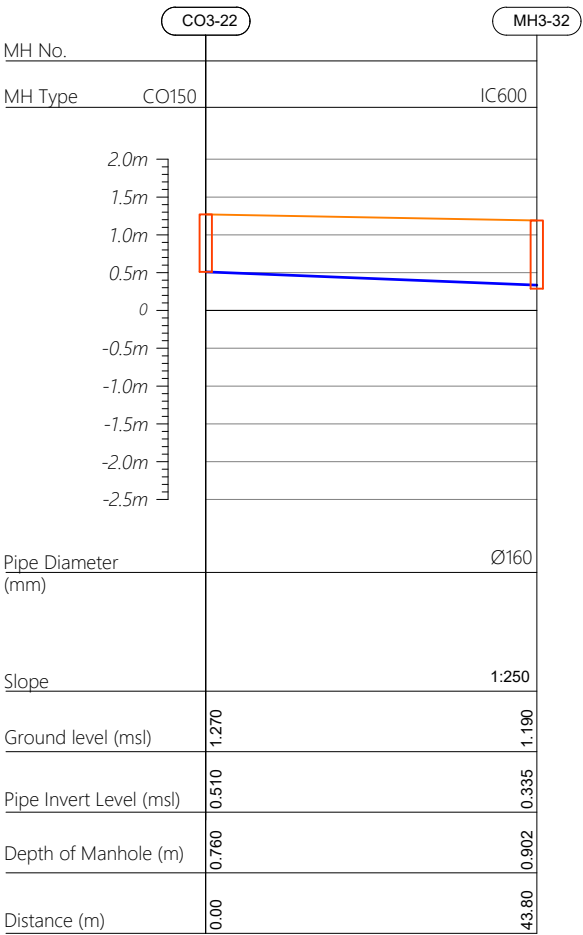
Profile 20



Profile 21



Profile 22



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
5 islands, Maldives - Package 6

Sub Title:
Sewerage System in L.Hithadhoo

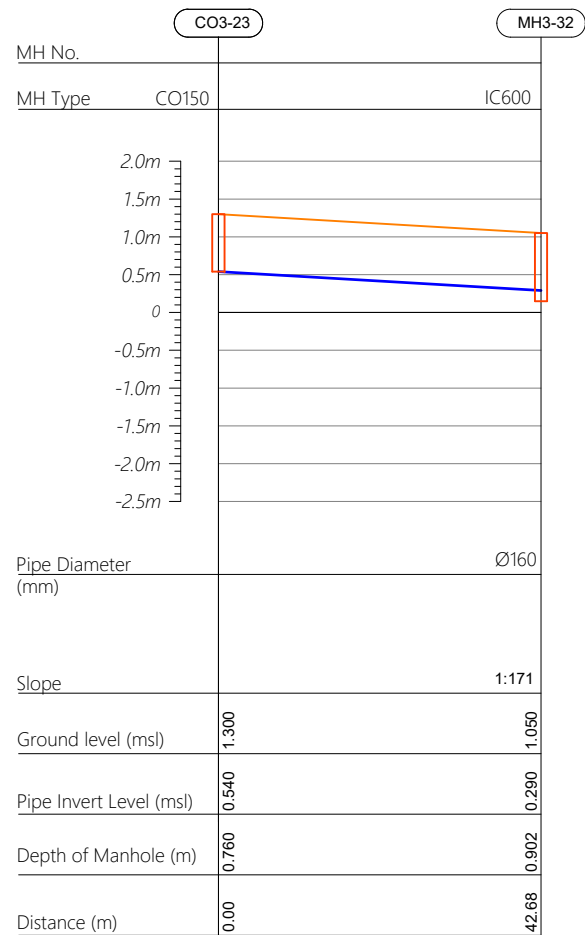
Client:
Ministry of National Planning, Housing and
Infrastructure, Republic of Maldives


T: +960 333 3528
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A: G. Rosary West,
Husnuheemaa Magu, Male', Maldives

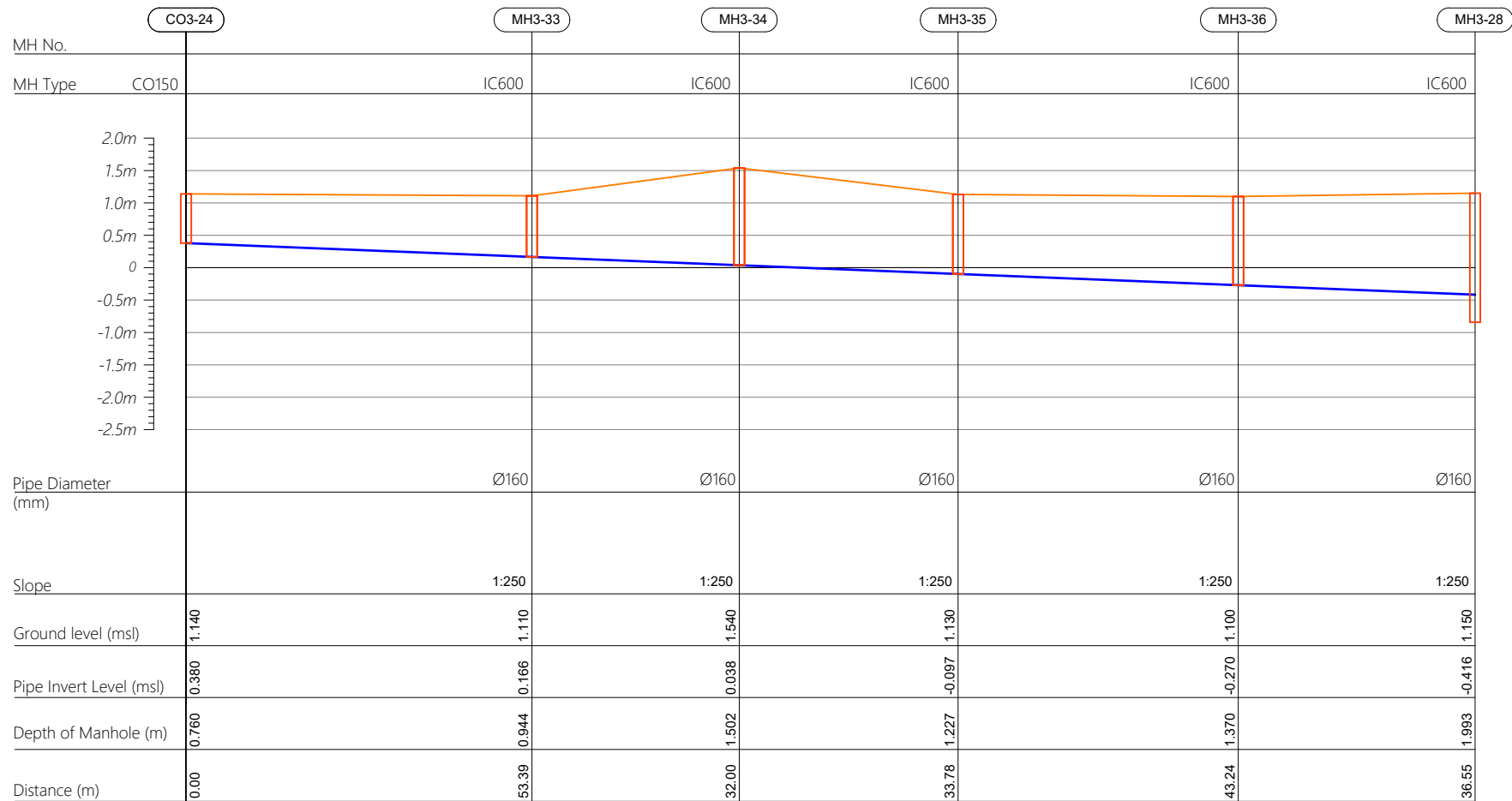

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Designed: F.I.A	Approved: J.W
Date: Aug 2020	SCALE (A3): 1:100
Project No:	01010101

Profile 23



Profile 24



CO160 — Cleanout Ø160
IC600 — HDPE Manhole Ø600
PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
*Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
5 islands, Maldives - Package 6*

Sub Title:
Sewerage System in L.Hithadhoo

Client:
*Ministry of National Planning, Housing and
Infrastructure, Republic of Maldives*



Drawn: A.R.W	Checked: M.S.S
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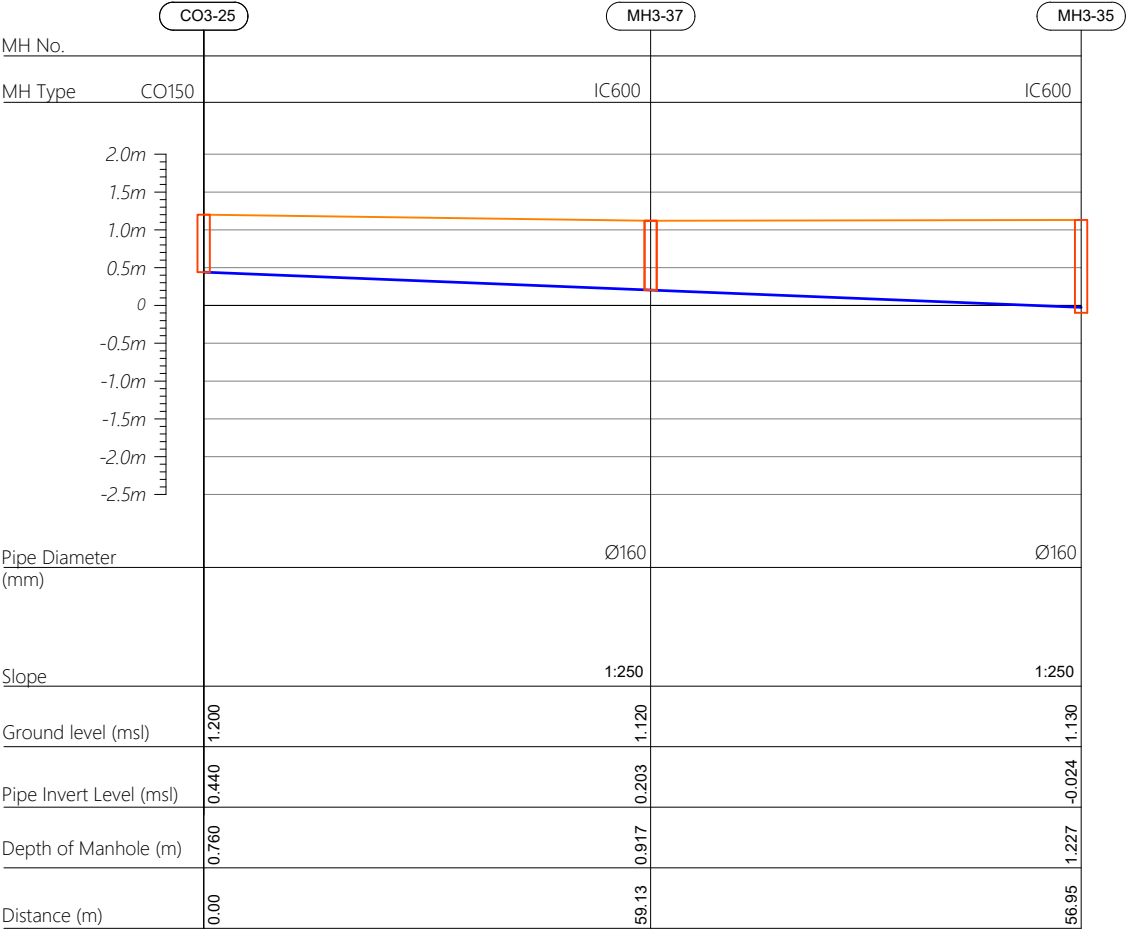
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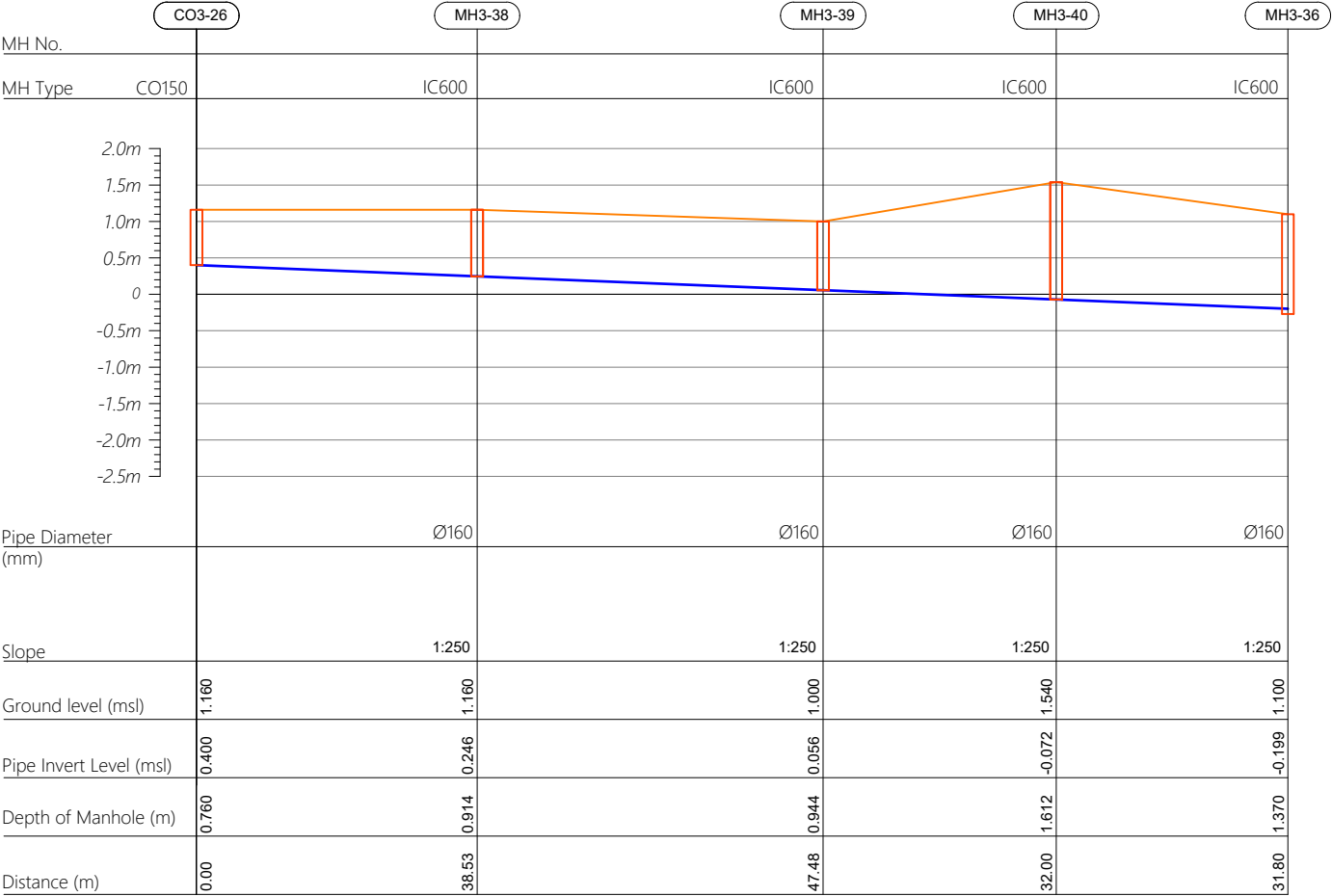
Project No: 01010101

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Profile 25



Profile 26



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 5 islands, Maldives - Package 6

Sub Title:
Sewerage System in L.Hithadhoo

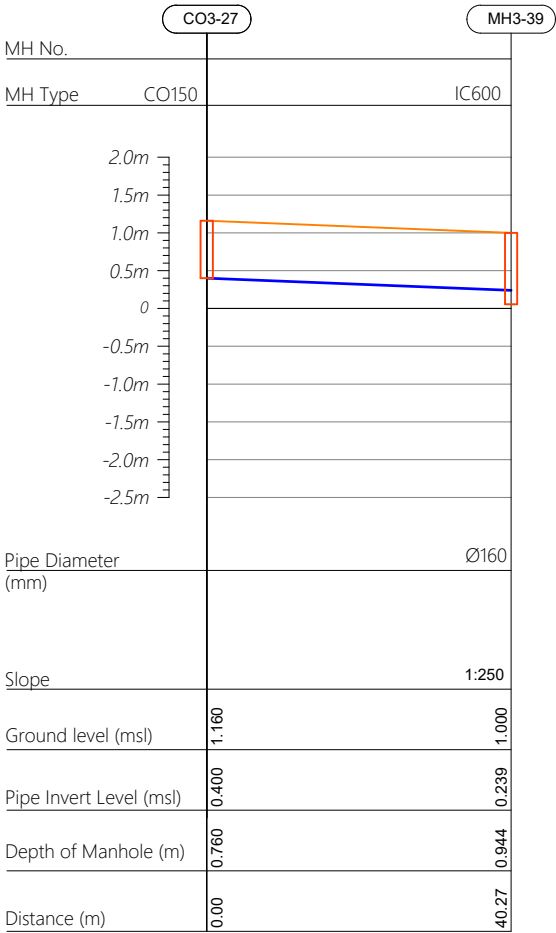
Client:
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A: G. Rosary West, Huseenuheemaa Magu, Male', Maldives

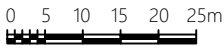
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Drawn: A.R.W	Checked: M.S.S
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Date: Aug 2020	SCALE (A3): 1:100
Project No:	01010101

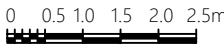
Profile 27



HORIZONTAL SCALE



VERTICAL SCALE



- CO160 — Cleanout Ø160
- IC600 — HDPE Manhole Ø600
- PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 5 islands, Maldives - Package 6

Sub Title:
Sewerage System in L.Hithadhoo

Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives



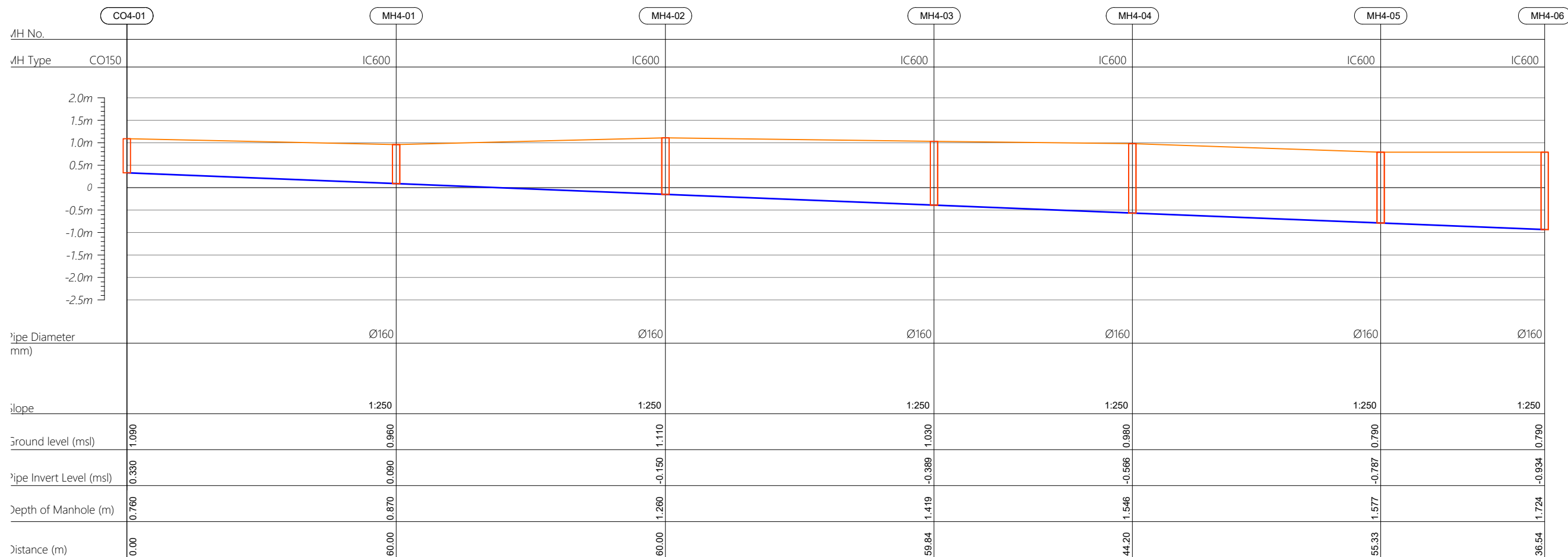
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A: G. Rosary West, Huseenuheemaa Magu, Male', Maldives



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Designed: F.I.A	Approved: I.W
Date: Aug 2020	SCALE (A3): 1:100
Project No: 01010101	
Rev: R-01	Page: PS3-14

Profile 01



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
*Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
5 islands, Maldives - Package 6*

Sub Title:
Sewerage System in L.Hithadhoo

Client:
*Ministry of National Planning, Housing and
Infrastructure, Republic of Maldives*



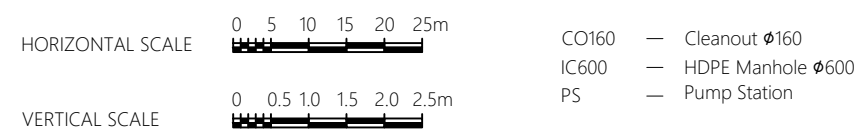
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Designed: F.I.A	Approved: I.W
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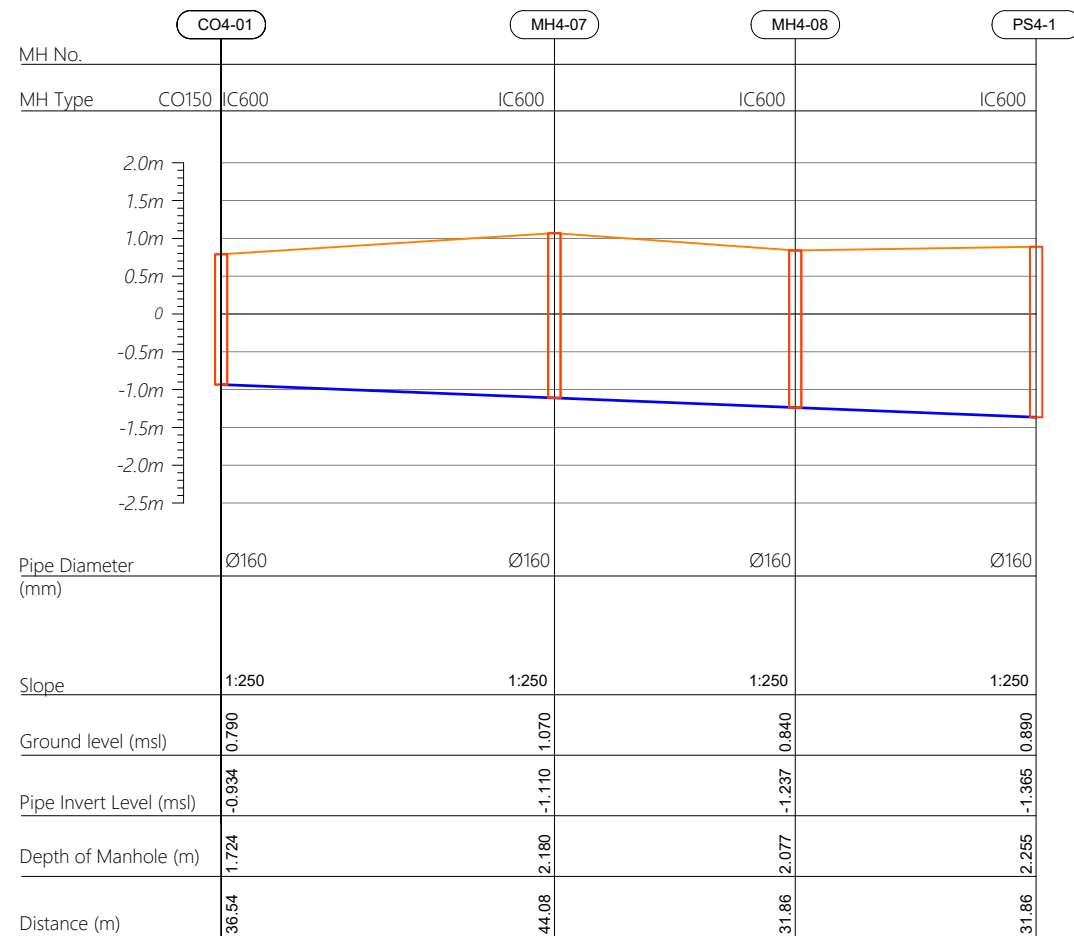
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Project No: 01010101

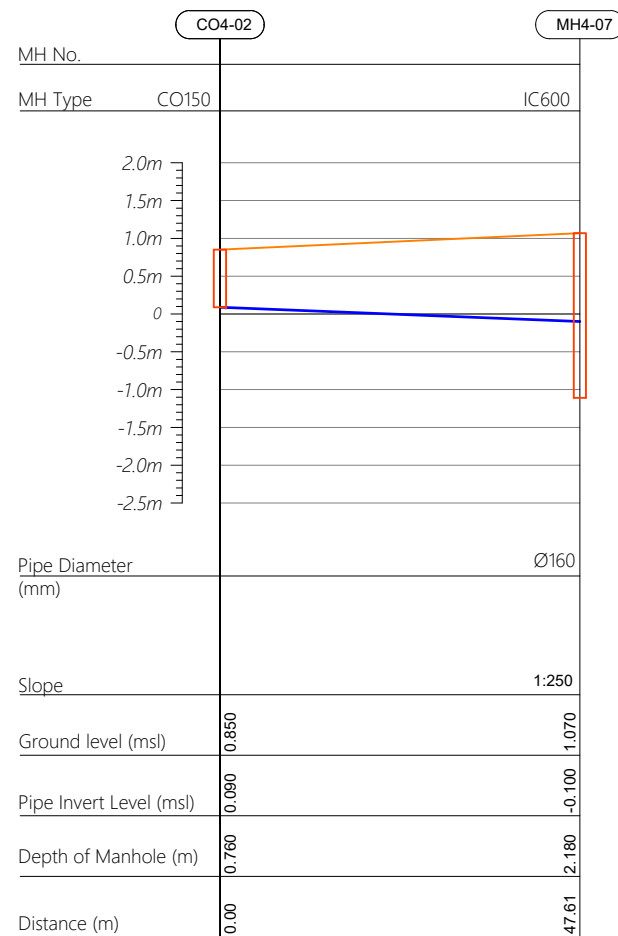
Rev:	Page:
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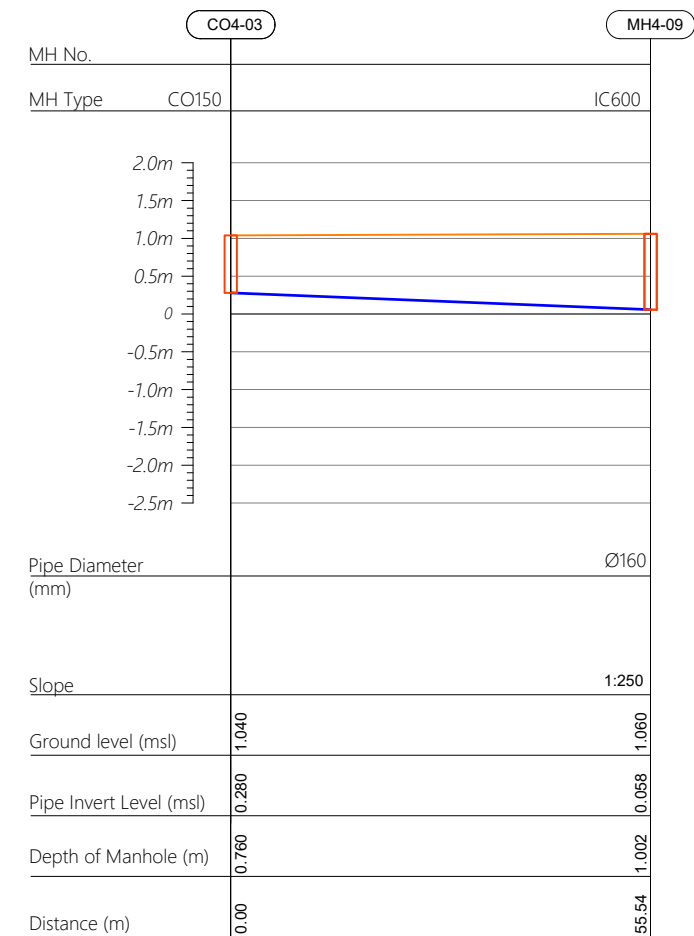
Profile 01



Profile 02



Profile 03



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
*Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
5 islands, Maldives - Package 6*

Sub Title:
Sewerage System in L.Hithadhoo

Client:
*Ministry of National Planning, Housing and
Infrastructure, Republic of Maldives*



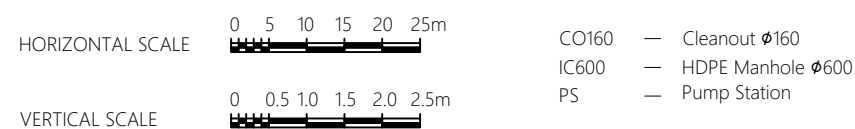
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Designed: F.J.A	Approved: J.W
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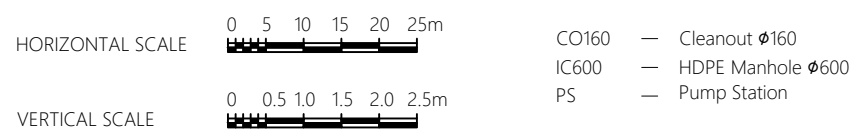
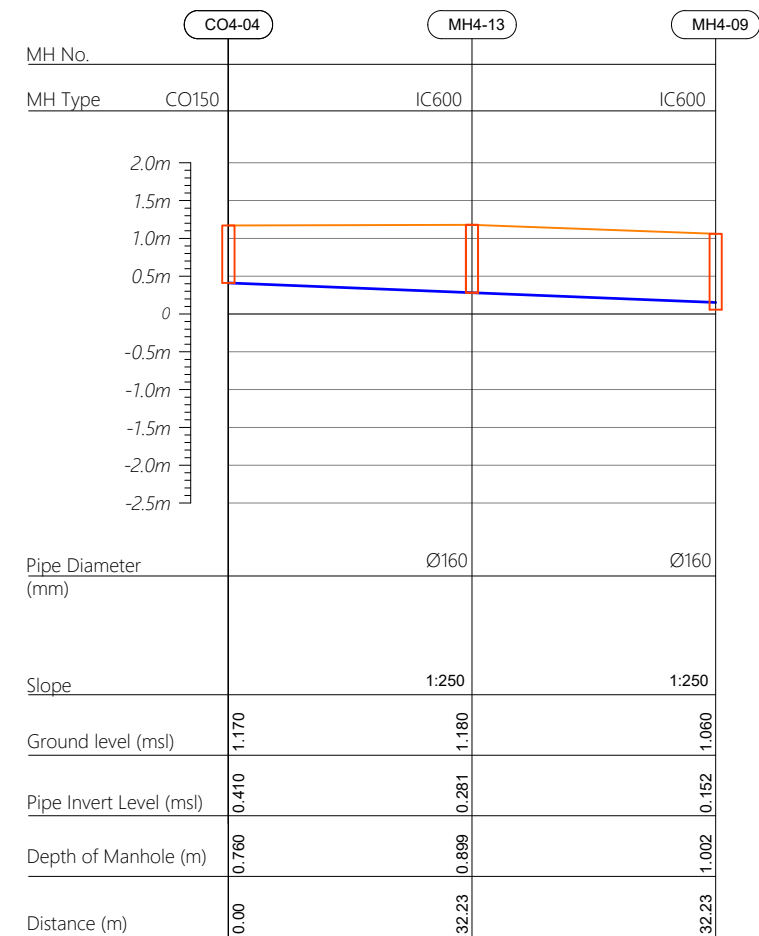
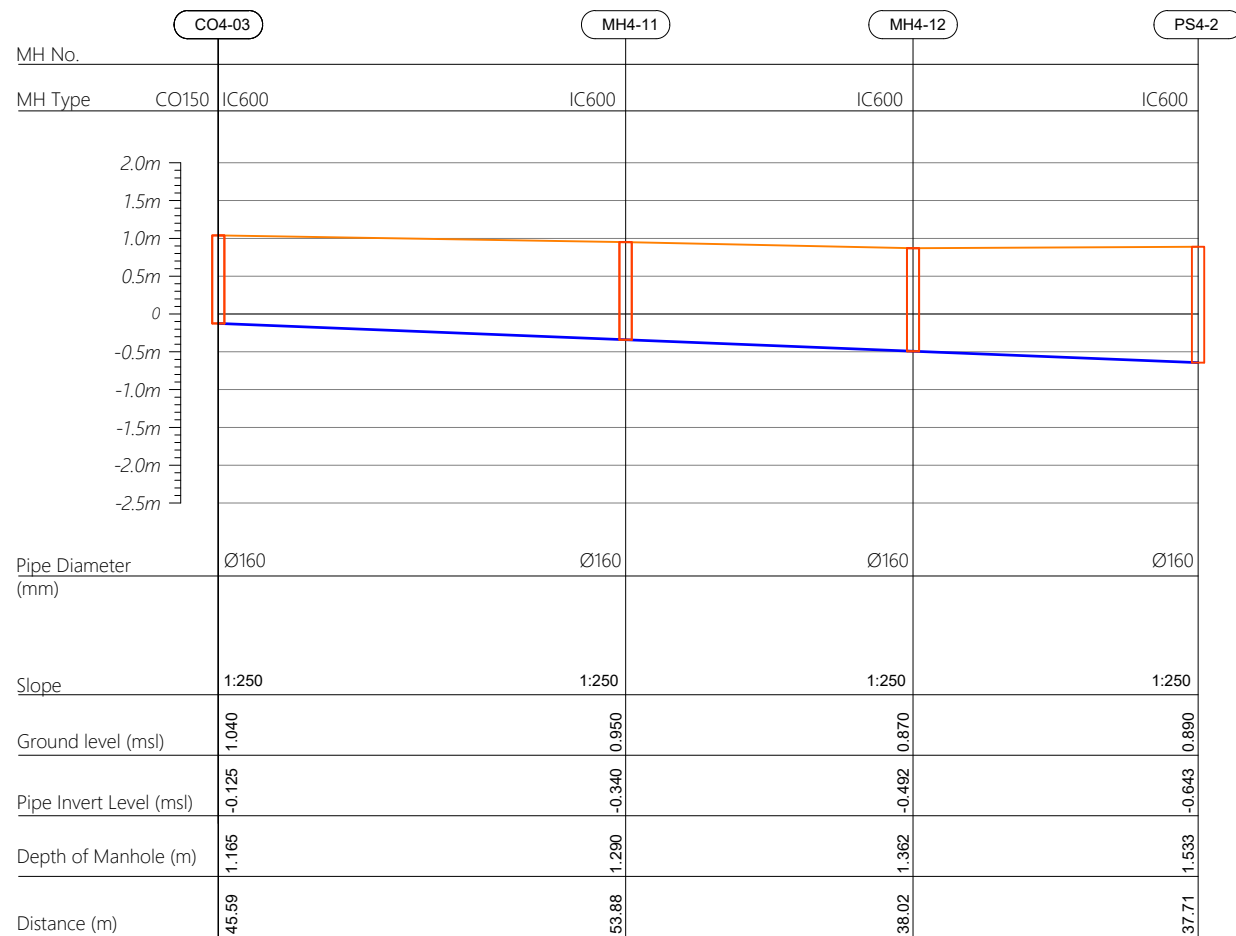
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Project No: 01010101

Rev:	Page:
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Profile 03



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title: *Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 5 islands, Maldives - Package 6*

Sub Title:
Sewerage System in L.Hithadhoo

Client:
*Ministry of National Planning, Housing and
Infrastructure, Republic of Maldives*



Drawn: A.R.W	Checked: M.S.S
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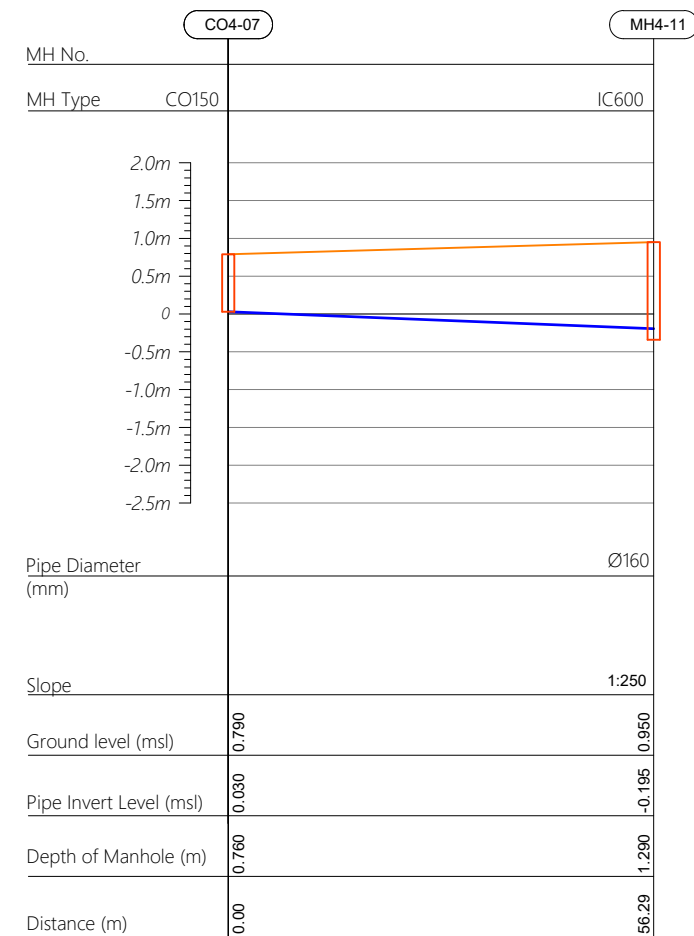
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Date: Aug 2020	SCALE (A3): 1:100
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Project No: 01010101


Rev:	Page:
R-01	PS4-03


Profile 07



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

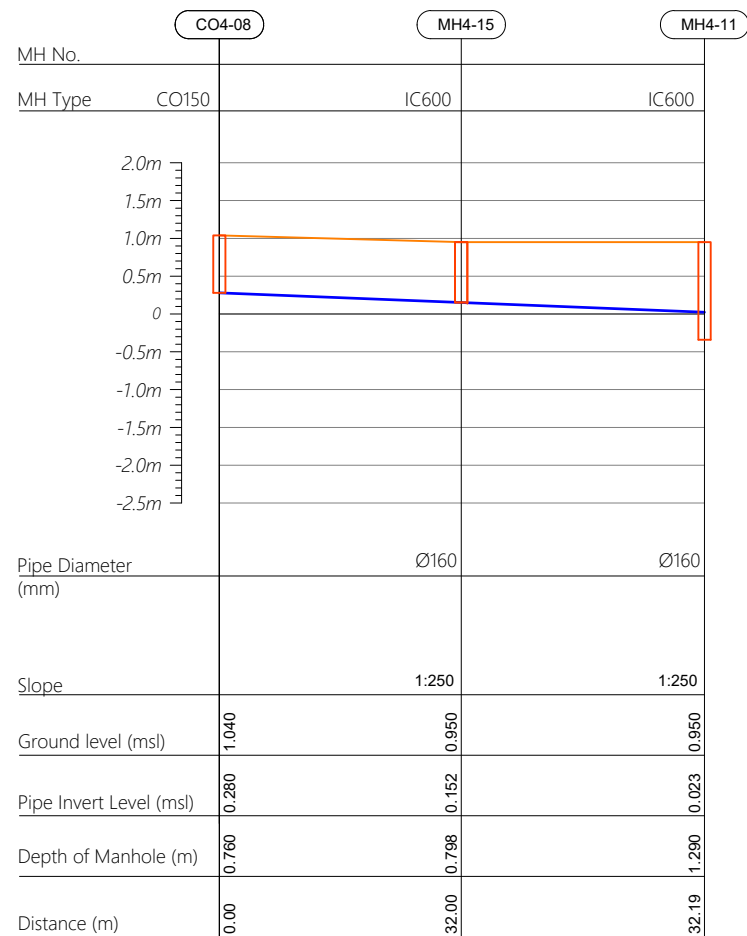
Rev:	Page:
R-01	PS4-04

HORIZONTAL SCALE 

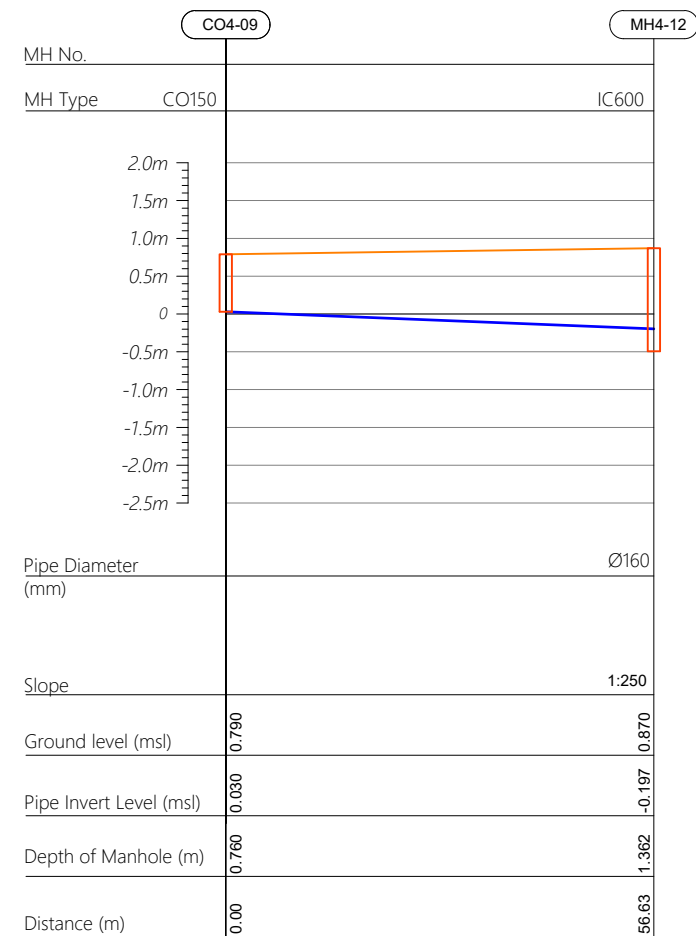
VERTICAL SCALE 

CO160 — Cleanout ϕ 160
IC600 — HDPE Manhole ϕ 600
PS — Pump Station

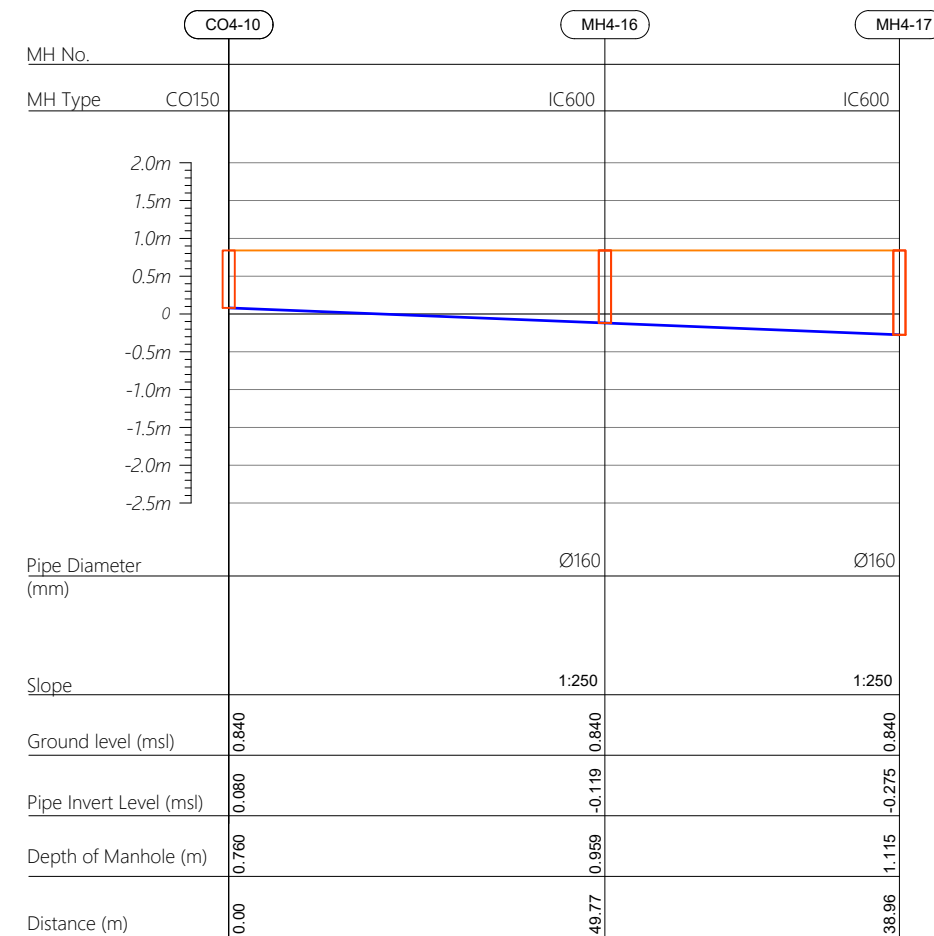
Profile 08



Profile 09



Profile 10



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
*Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
5 islands, Maldives - Package 6*

Sub Title:
Sewerage System in L.Hithadhoo

Client:
*Ministry of National Planning, Housing and
Infrastructure, Republic of Maldives*



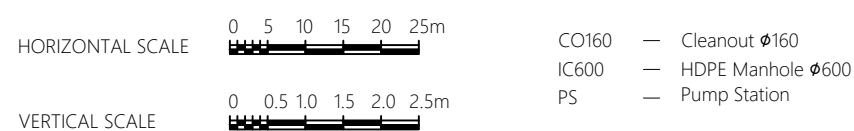
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Designed: F.I.A	Approved: J.W
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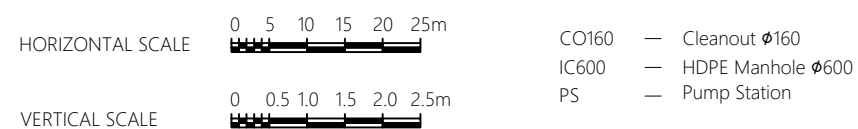
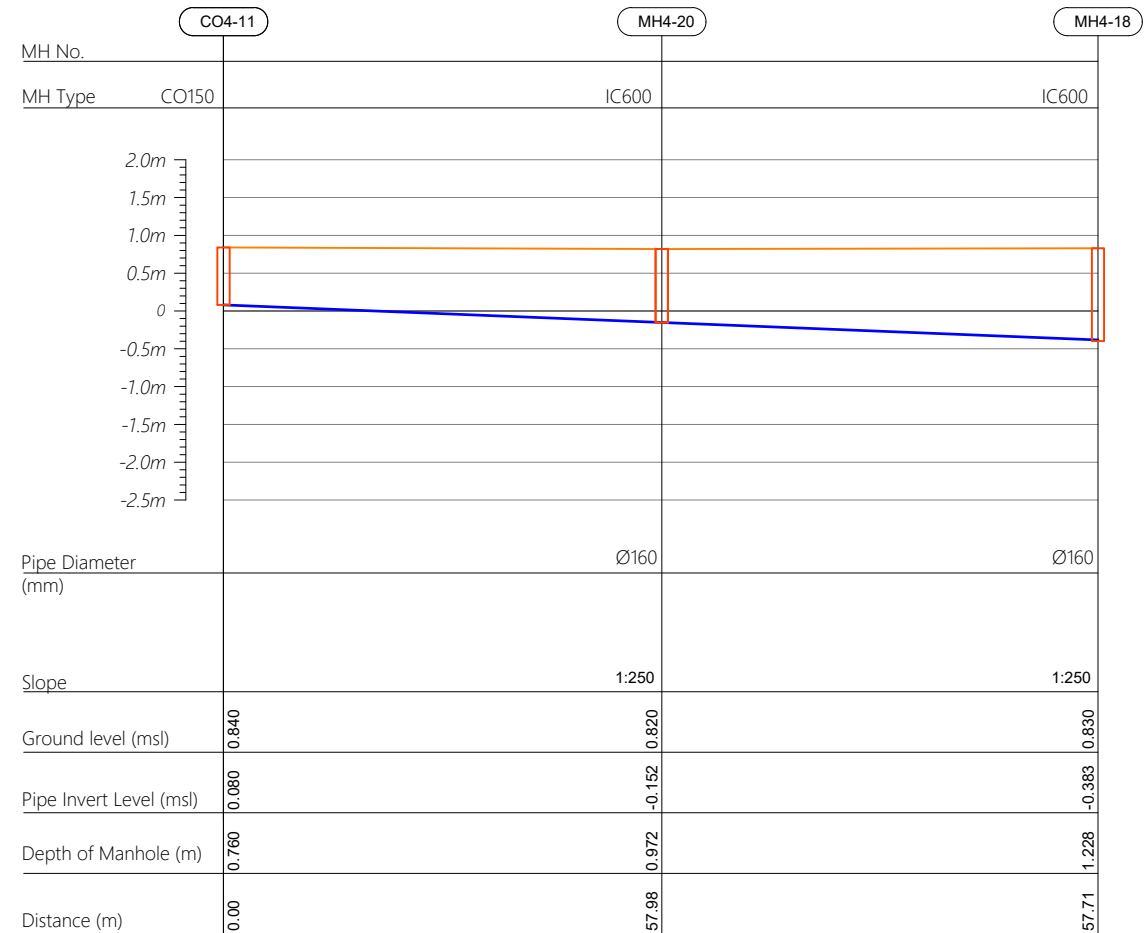
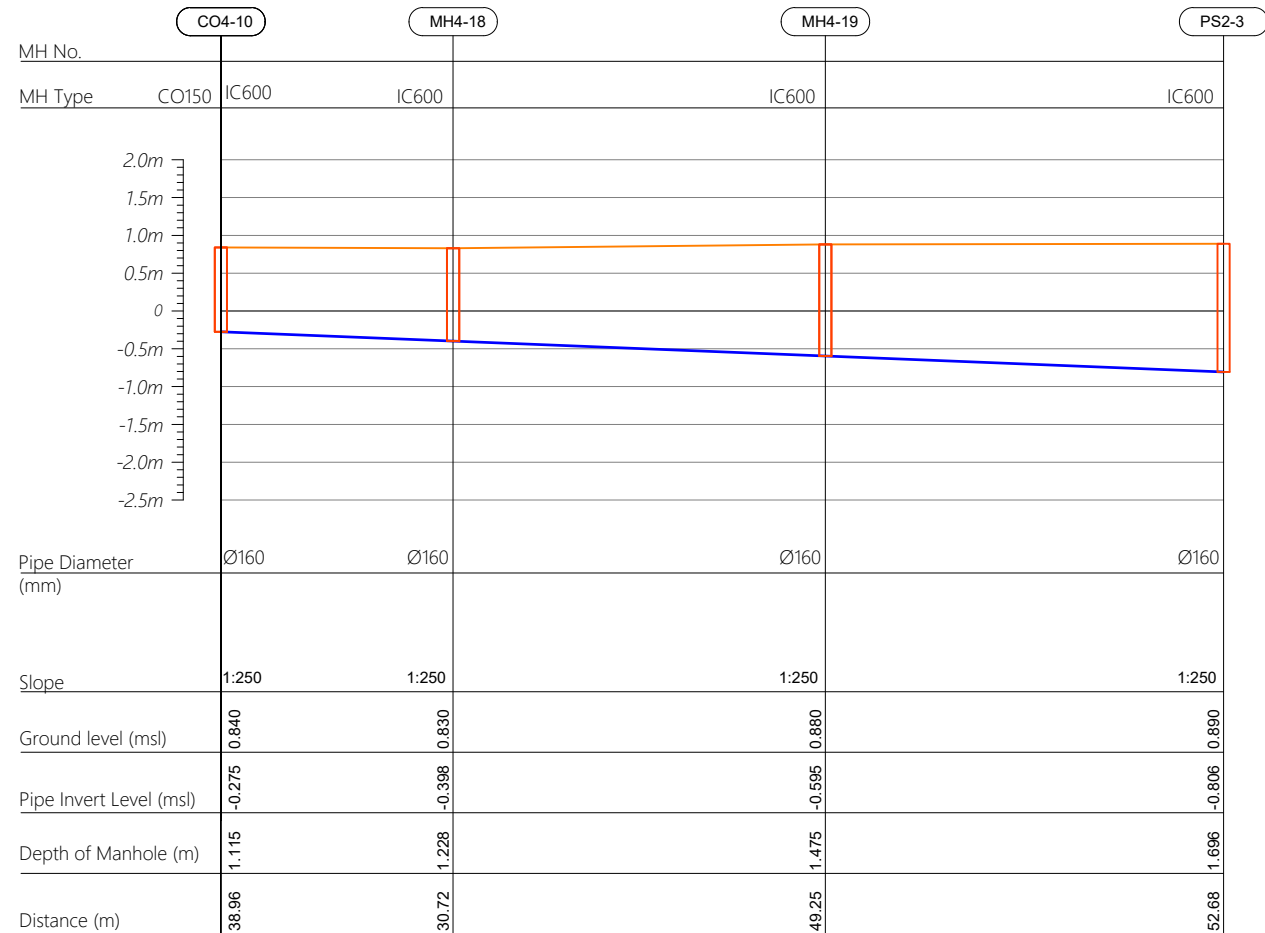
Date: Aug 2020	SCALE (A3): 1:100
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Project No: 01010101

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Profile 10



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title: *Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 5 islands, Maldives - Package 6*

Sub Title:
Sewerage System in L.Hithadhoo

Client:
*Ministry of National Planning, Housing and
Infrastructure, Republic of Maldives*

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A: G. Rosary West,
Husnuheenga Maagu, Male', Maldives

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Drawn: A.R.W	Checked: M.S.S
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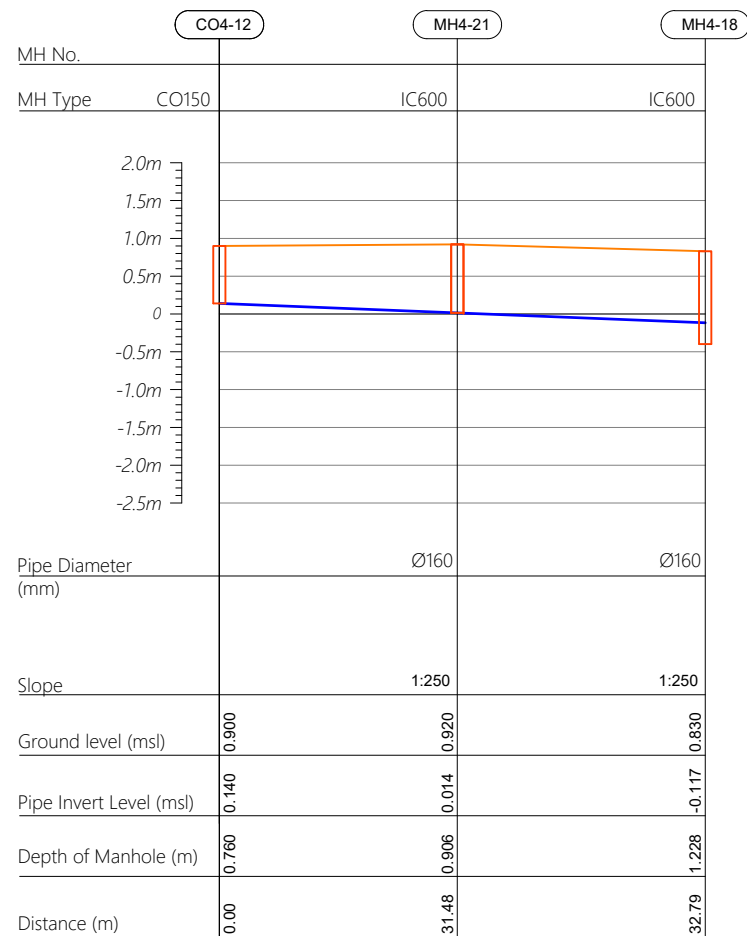
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Date: Aug 2020	SCALE (A3): 1:100
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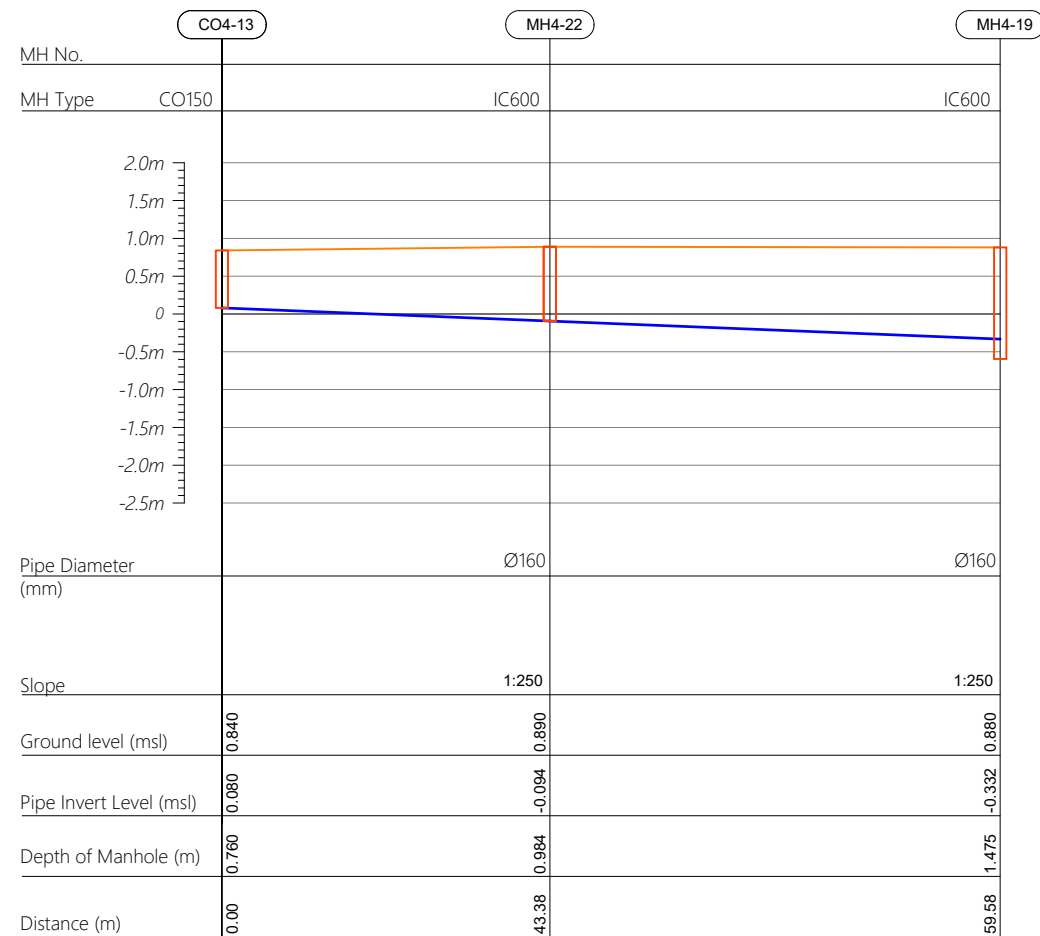
Project No: 01010101

Rev:	Page:
R-01	PS4-06

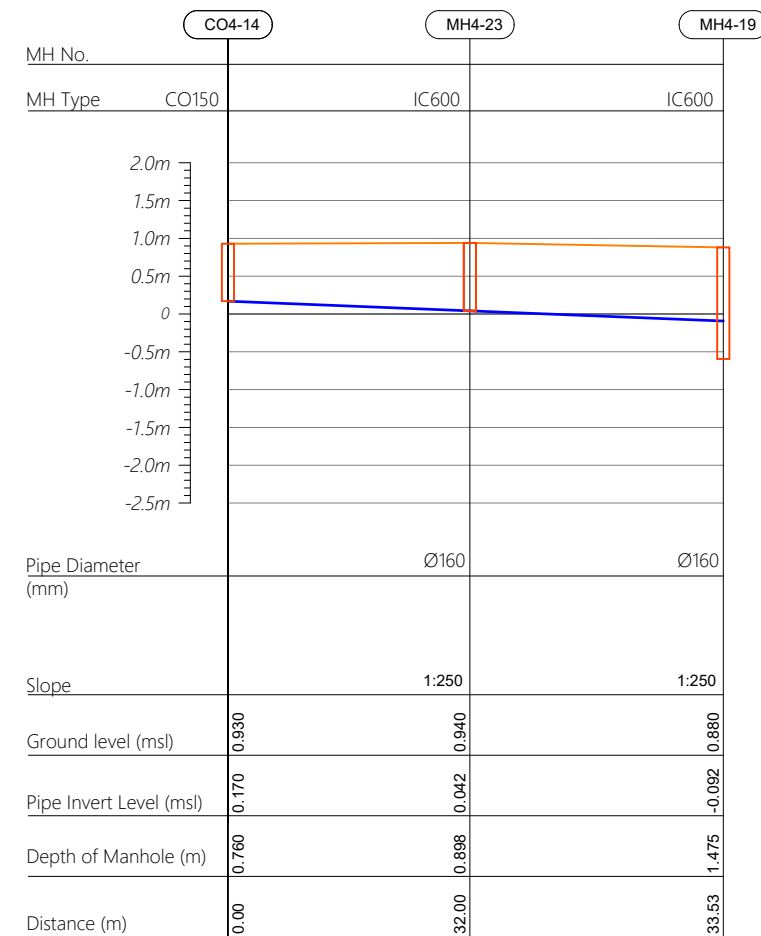
Profile 12



Profile 13



Profile 14



R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
*Consultancy Services for Survey,
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5 islands, Maldives - Package 6*

Sub Title:
Sewerage System in L.Hithadhoo

Client:
*Ministry of National Planning, Housing and
Infrastructure, Republic of Maldives*



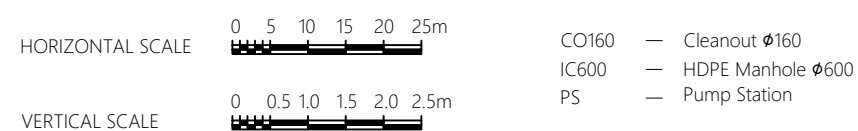
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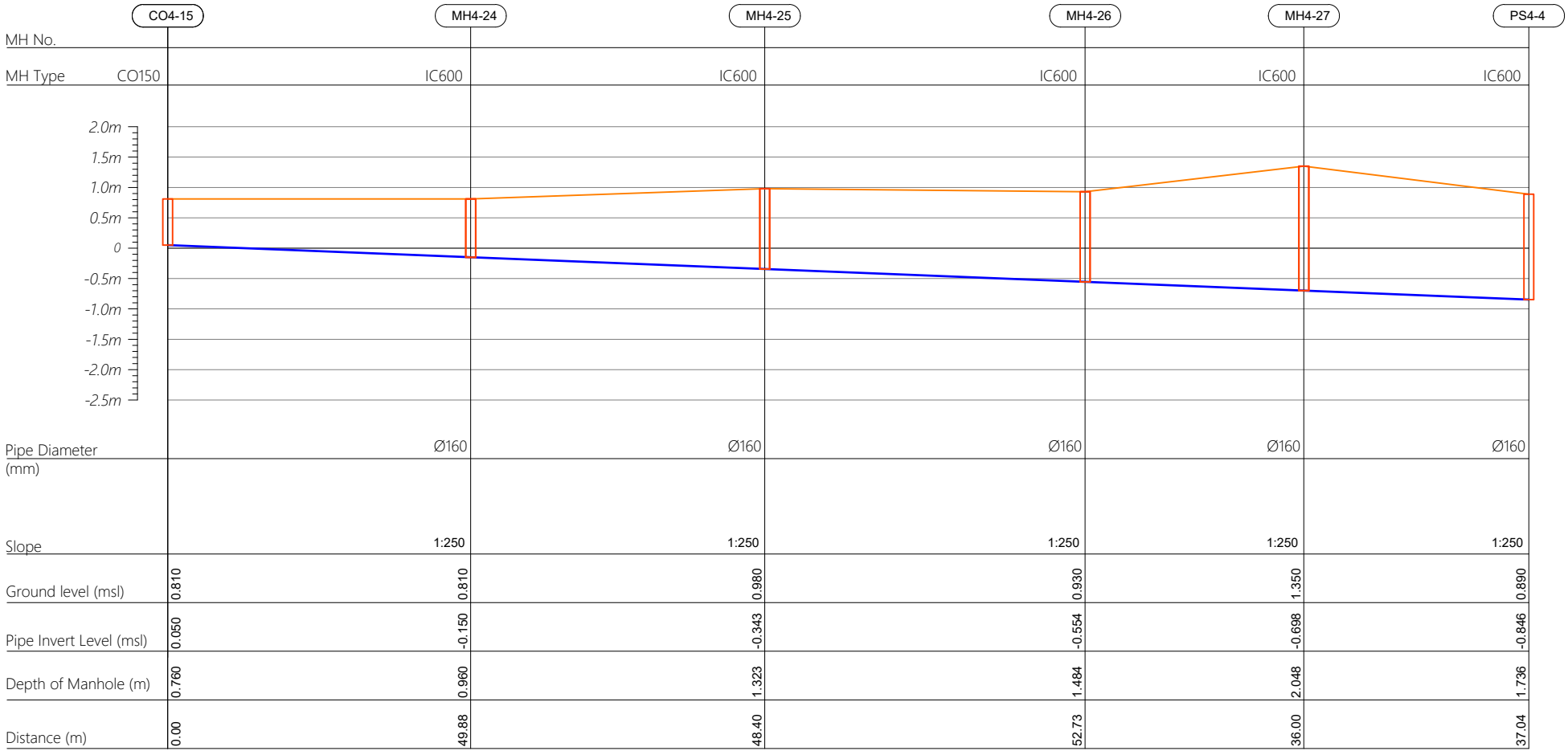
Date: Aug 2020	SCALE (A3): 1:100
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Profile 15



CO160 — Cleanout Ø160
IC600 — HDPE Manhole Ø600
PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
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Client:
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A: G. Rosary West,
Husnuheemaa Magu, Male', Maldives

Maldivu Infrastructure Happa

Drawn: A.R.W Checked: M.S.S

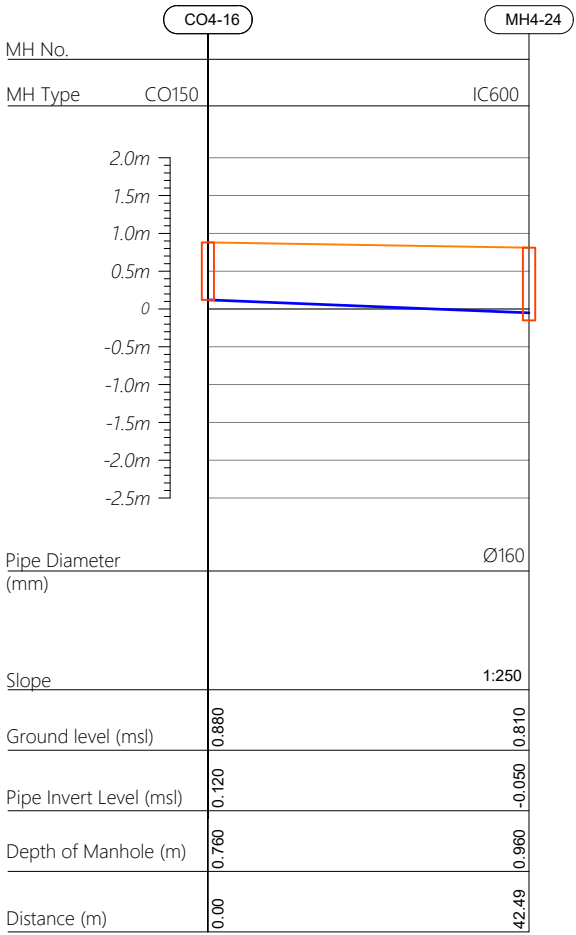
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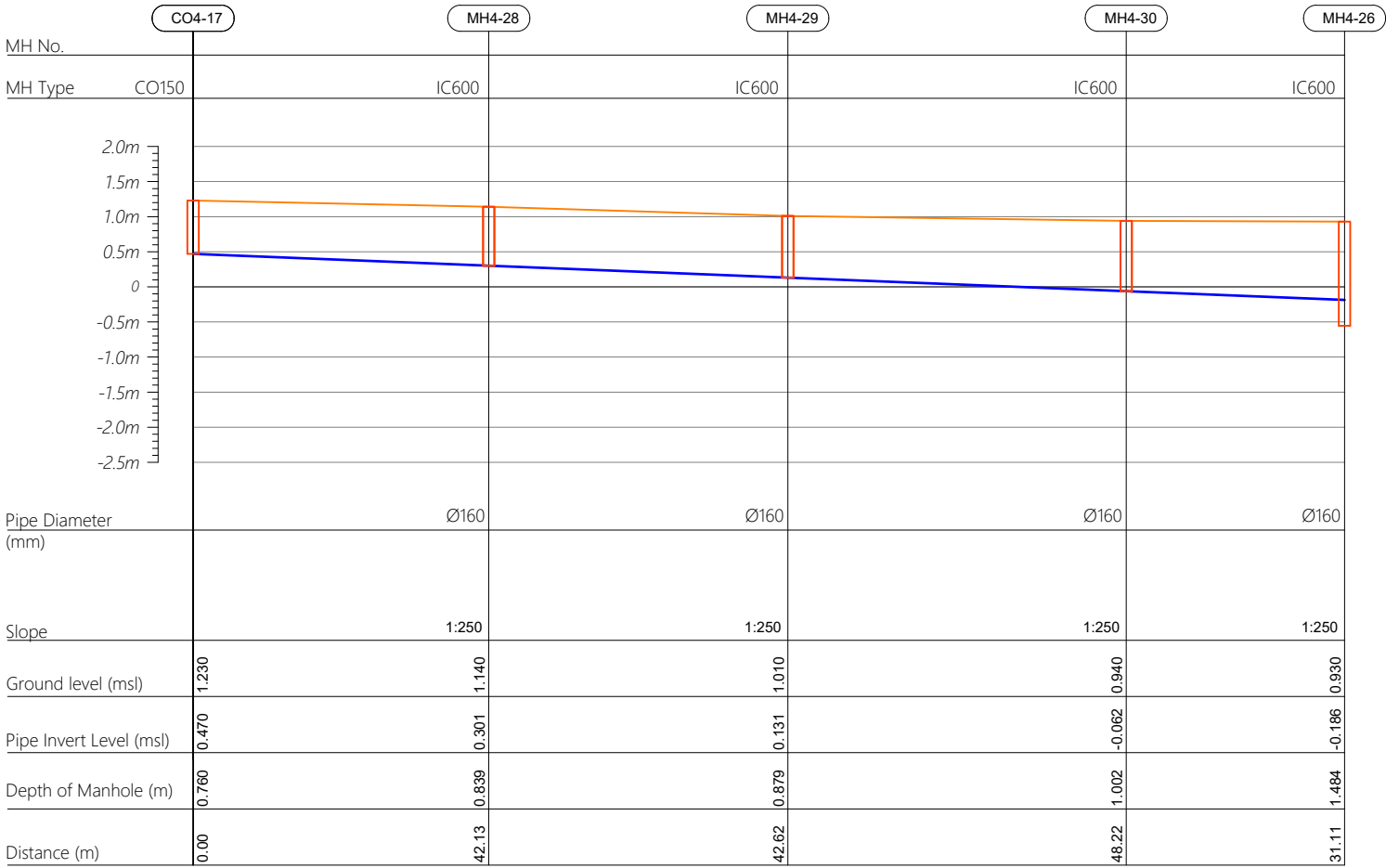
Project No: 01010101

Rev: R-01 Page: PS4-08

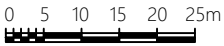
Profile 16



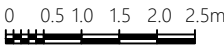
Profile 17



HORIZONTAL SCALE



VERTICAL SCALE



- CO160 — Cleanout Ø160
- IC600 — HDPE Manhole Ø600
- PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
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Sub Title:
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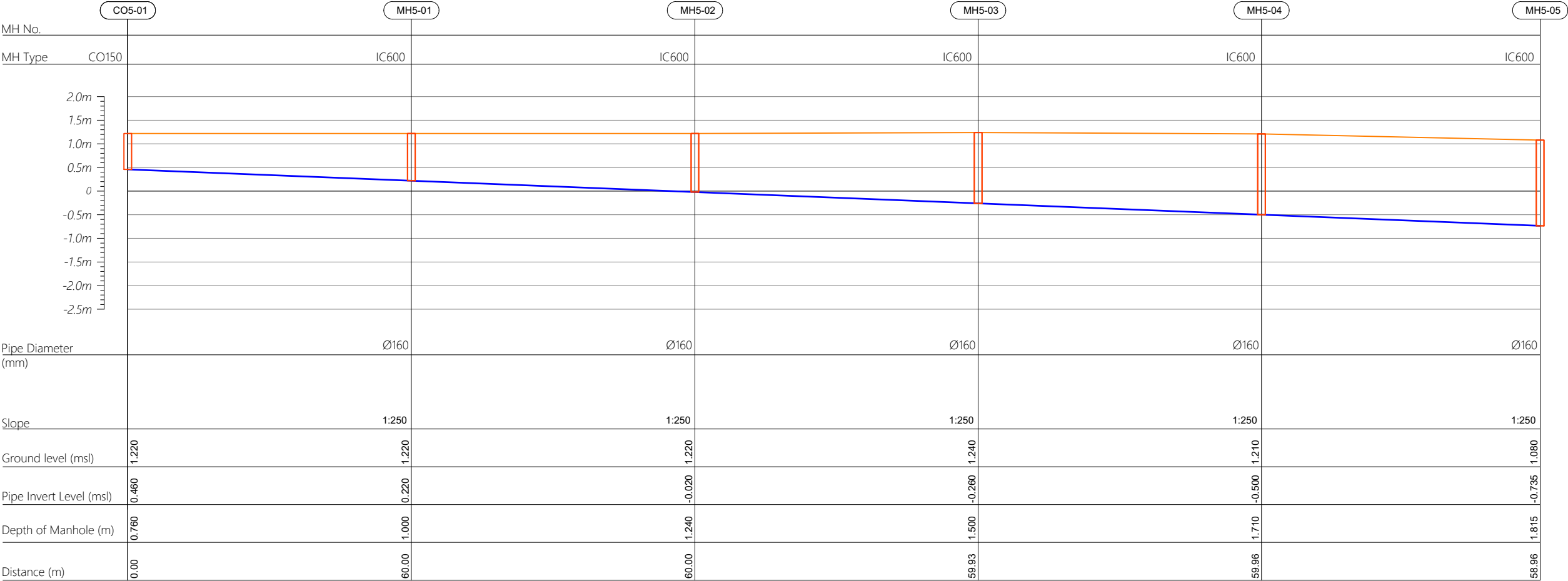
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Date: Aug 2020 SCALE (A3): 1:100

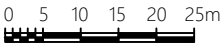
Project No: 01010101

Rev: R-01 Page: PS4-09

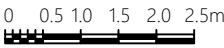
Profile 01



HORIZONTAL SCALE



VERTICAL SCALE



- CO160 — Cleanout Ø160
- IC600 — HDPE Manhole Ø600
- PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
*Consultancy Services for Survey,
Design and EIA works of Water
Supply and Sewerage Facilities in
5 islands, Maldives - Package 6*

Sub Title:
Sewerage System in L.Hithadhoo

Client:
*Ministry of National Planning, Housing and
Infrastructure, Republic of Maldives*



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Husnuheemaa Magu, Male', Maldives



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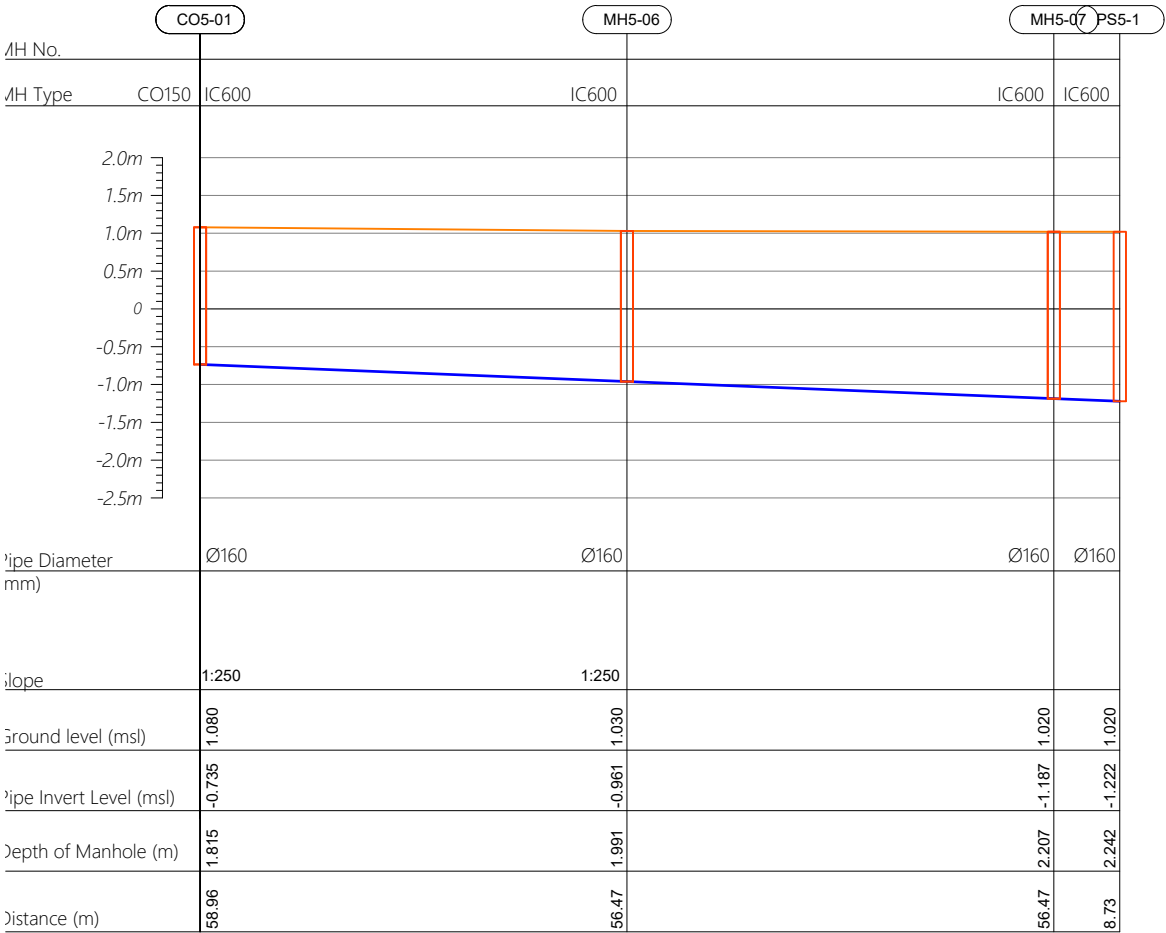
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Date: Aug 2020 SCALE (A3): 1:100

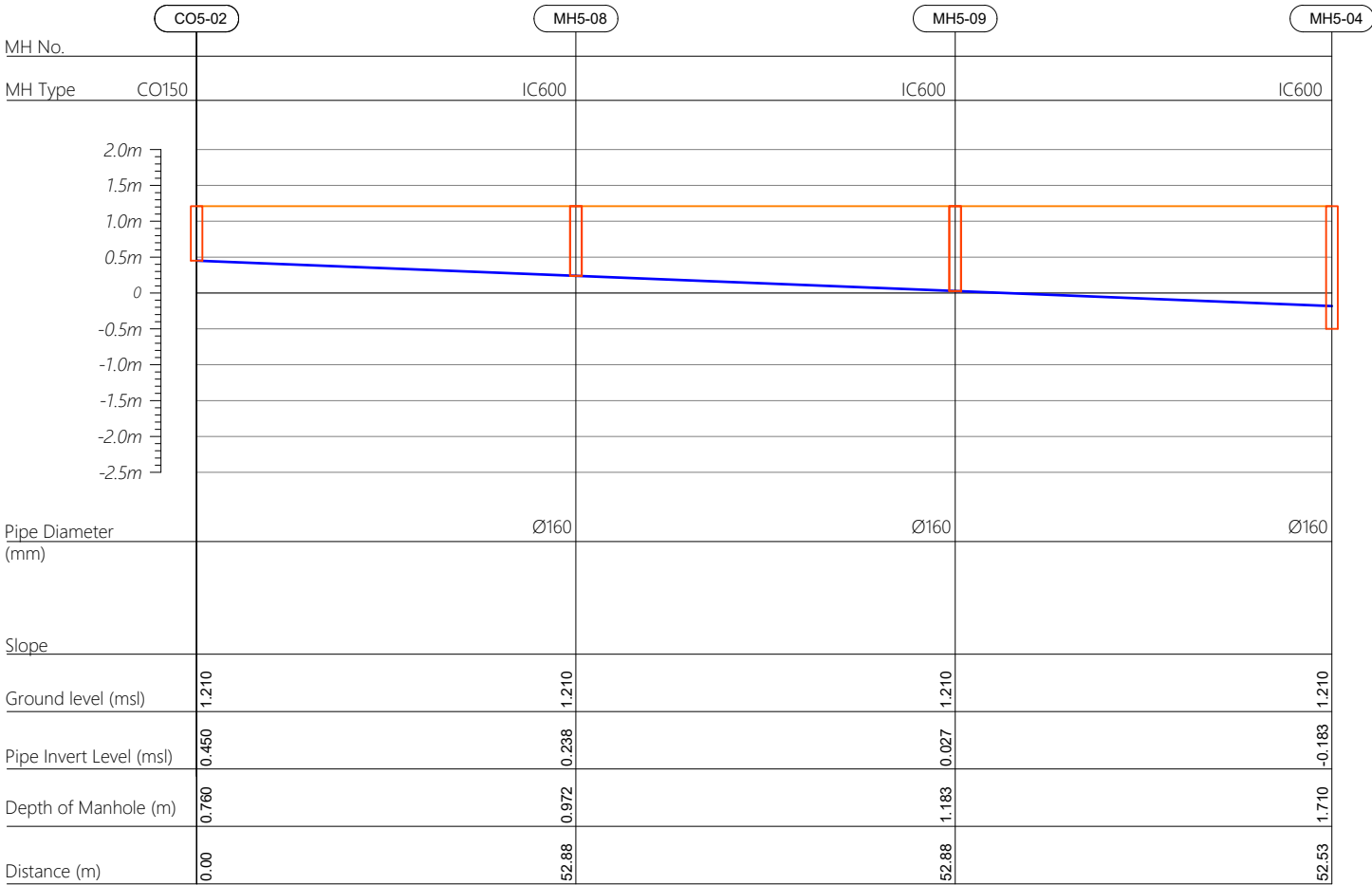
Project No: 01010101

Rev: R-01 Page: PS5-01

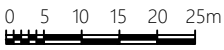
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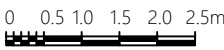
Profile 02



HORIZONTAL SCALE



VERTICAL SCALE



- CO160 — Cleanout Ø160
- IC600 — HDPE Manhole Ø600
- PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 5 islands, Maldives - Package 6

Sub Title:
Sewerage System in L.Hithadhoo

Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives



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Drawn: A.R.W Checked: M.S.S

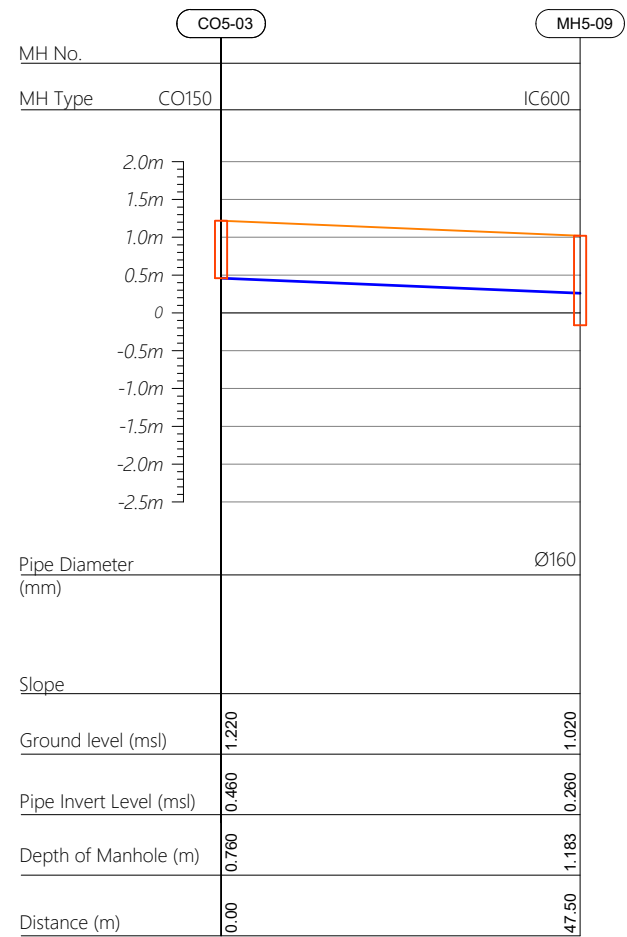
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Date: Aug 2020 SCALE (A3): 1:100

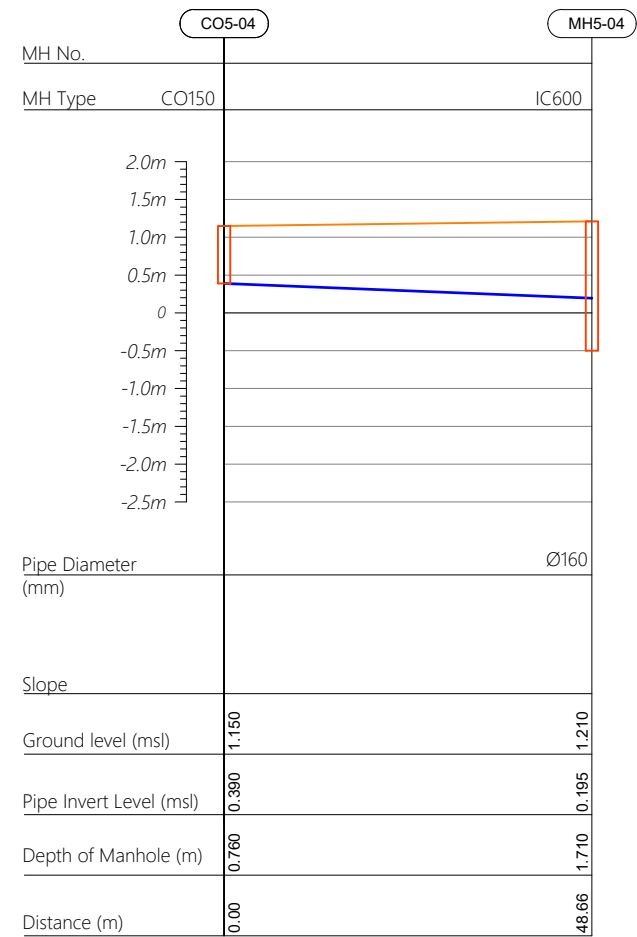
Project No: 01010101

Rev: R-01 Page: PS5-02

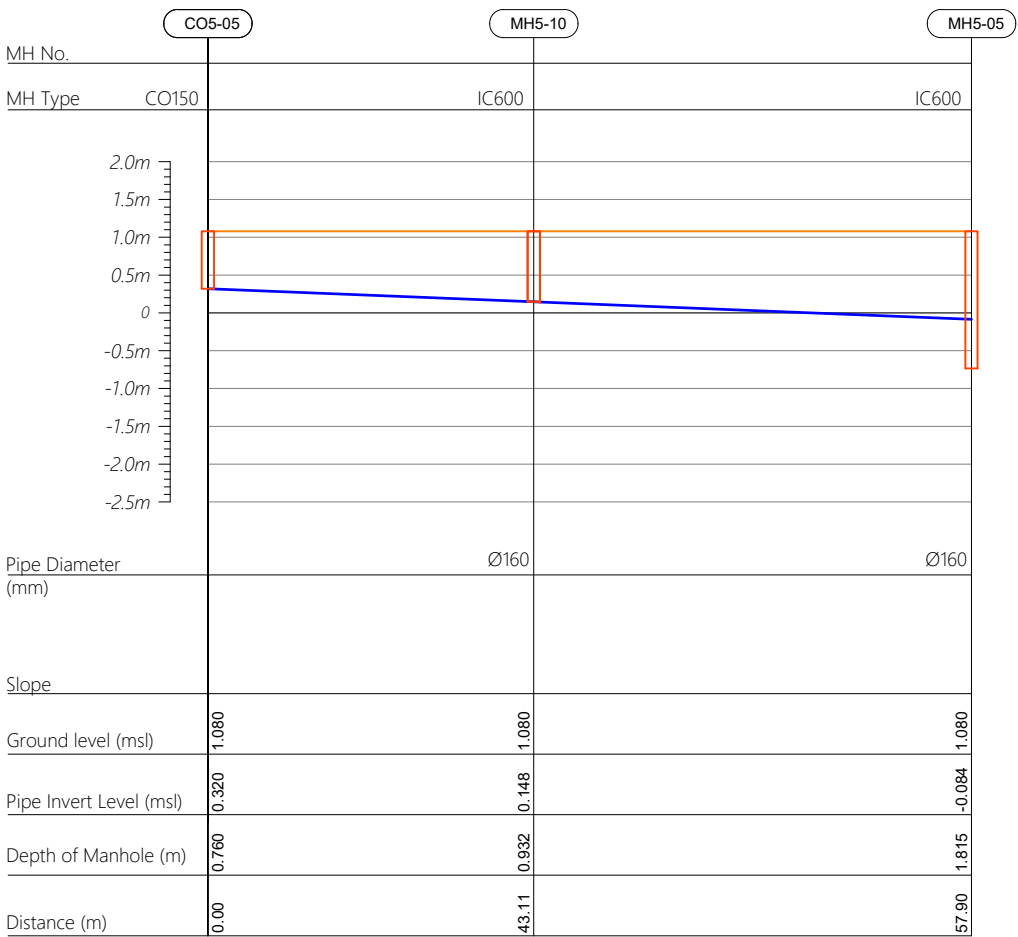
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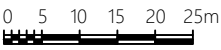
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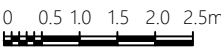
Profile 05



HORIZONTAL SCALE



VERTICAL SCALE



- CO160 — Cleanout Ø160
- IC600 — HDPE Manhole Ø600
- PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 5 islands, Maldives - Package 6

Sub Title:
Sewerage System in L.Hithadhoo

Client:
Ministry of National Planning, Housing and Infrastructure, Republic of Maldives



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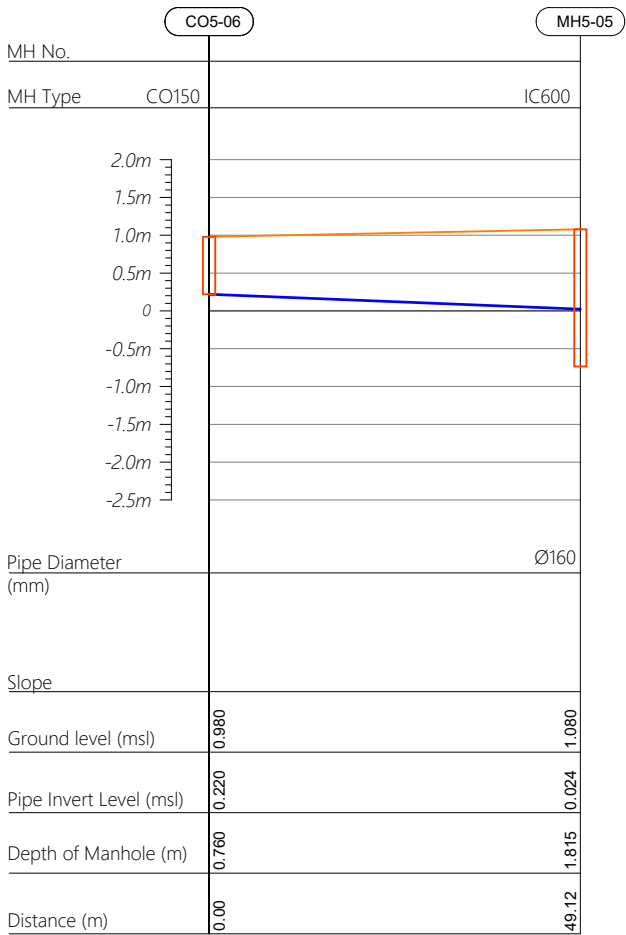
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Date: Aug 2020 SCALE (A3): 1:100

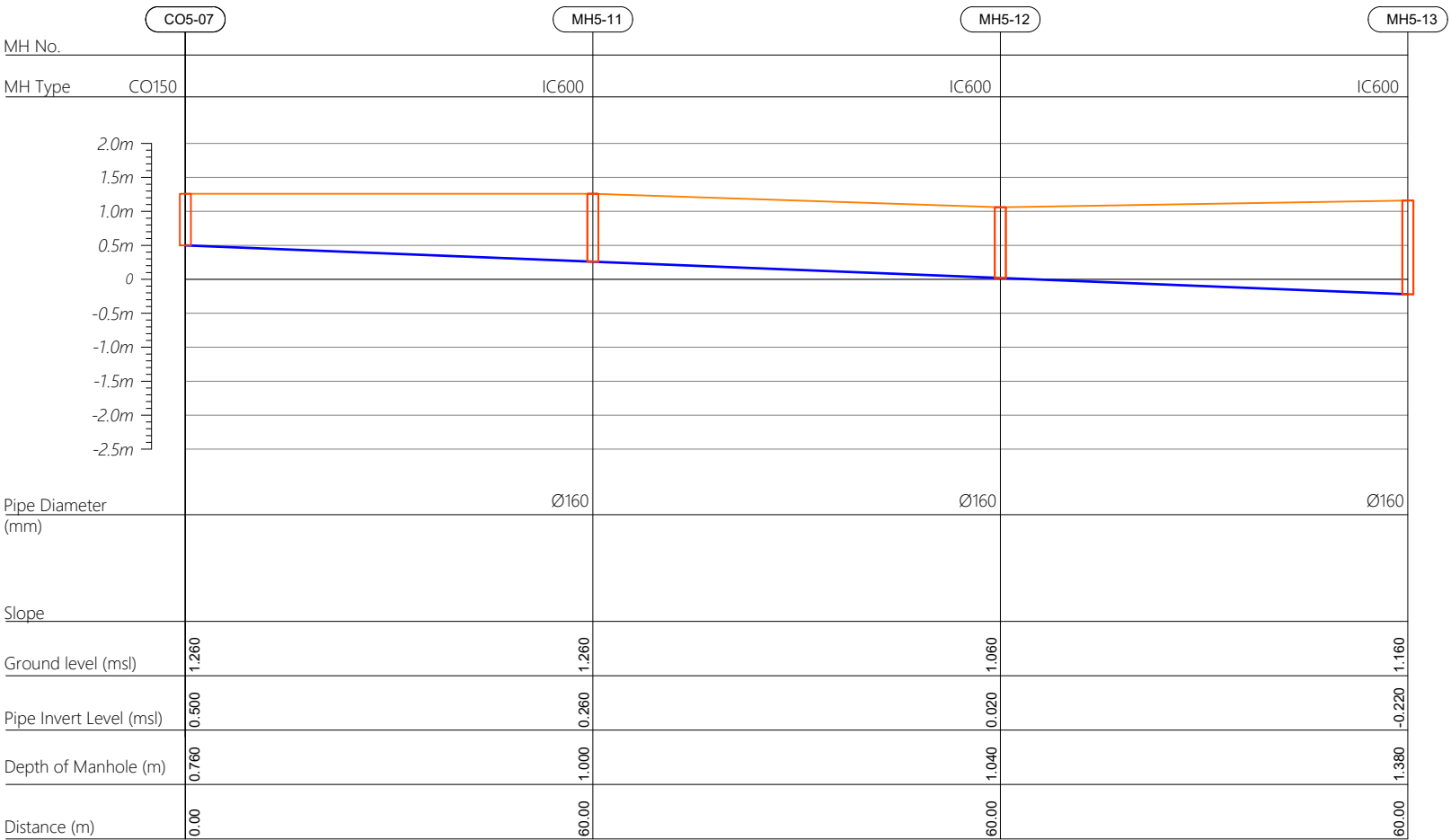
Project No: 01010101

Rev: R-01 Page: PS5-03

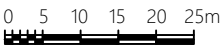
Profile 06



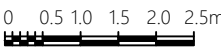
Profile 07



HORIZONTAL SCALE



VERTICAL SCALE



- CO160 — Cleanout Ø160
- IC600 — HDPE Manhole Ø600
- PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 5 islands, Maldives - Package 6

Sub Title:
Sewerage System in L.Hithadhoo

Client:
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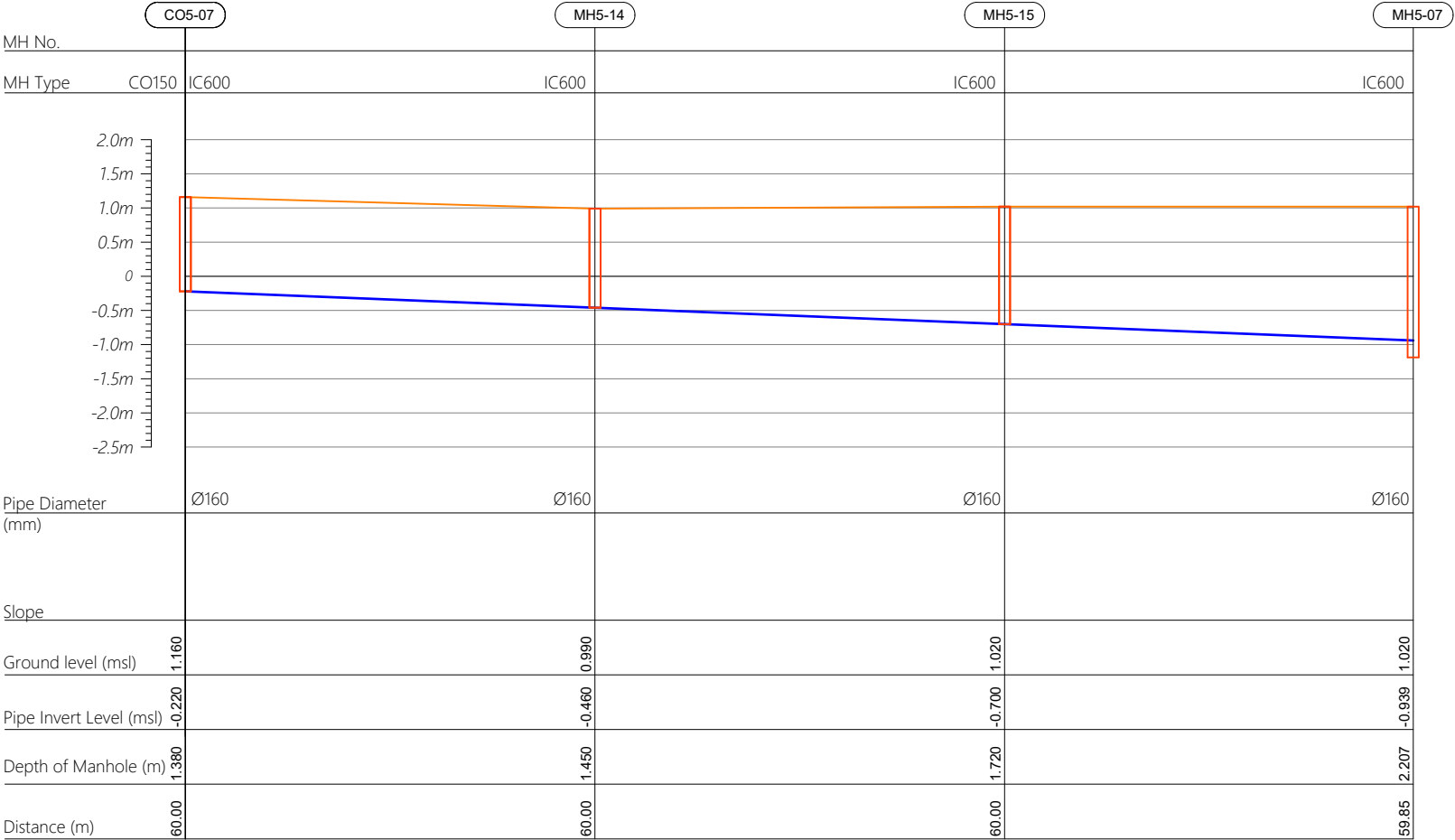
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Date: Aug 2020 SCALE (A3): 1:100

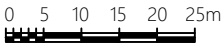
Project No: 01010101

Rev: R-01 Page: PS5-04

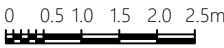
Profile 07



HORIZONTAL SCALE



VERTICAL SCALE



- CO160 — Cleanout Ø160
IC600 — HDPE Manhole Ø600
PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 5 islands, Maldives - Package 6

Sub Title:
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Client:
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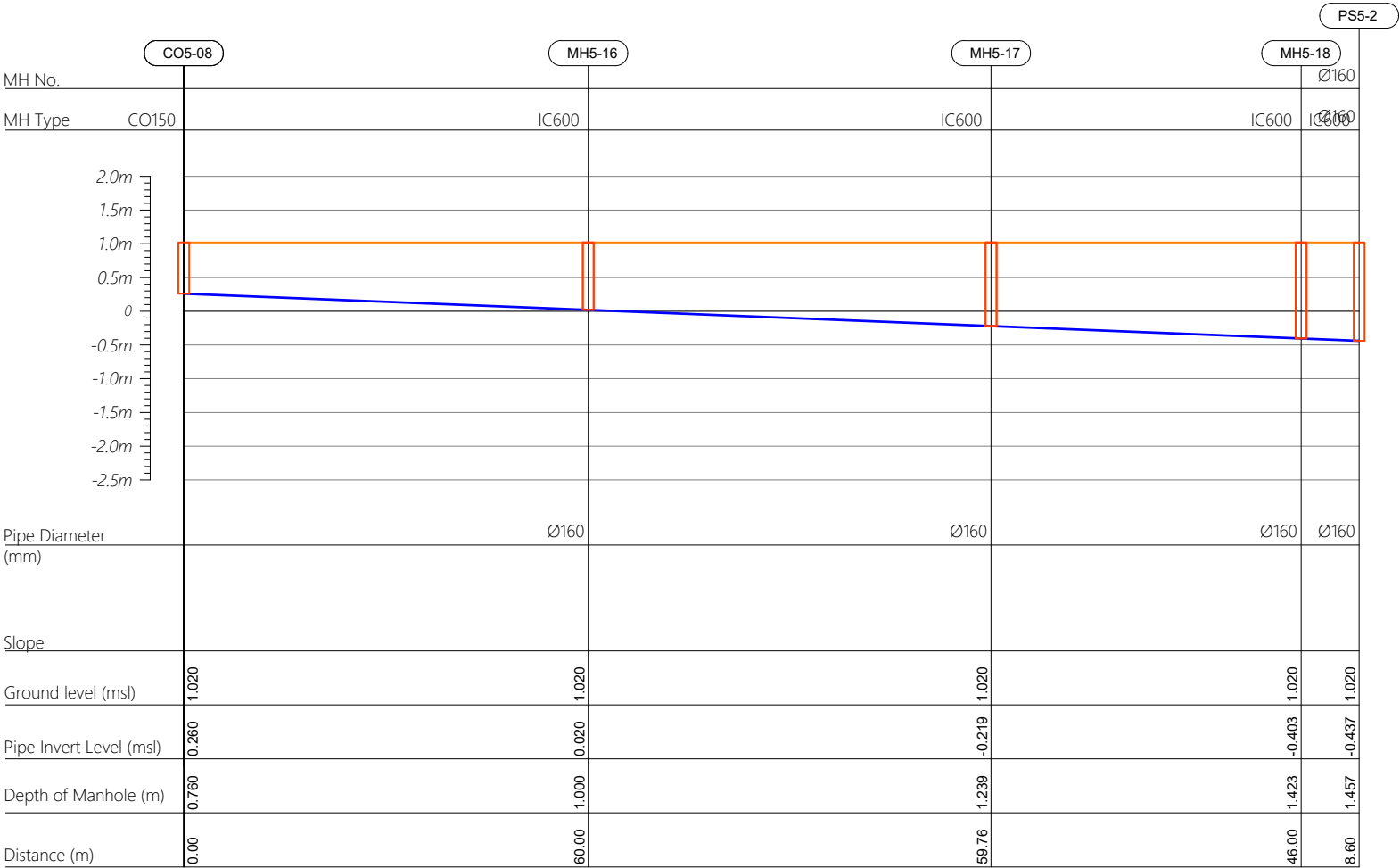
Designed: F.I.A Approved: I.W

Date: Aug 2020 SCALE (A3): 1:100

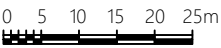
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Rev: R-01 Page: PS5-05

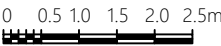
Profile 08



HORIZONTAL SCALE



VERTICAL SCALE



- CO160 — Cleanout Ø160
- IC600 — HDPE Manhole Ø600
- PS — Pump Station

R00	JUNE 2020	STAGE -1	PD	SBC	SD
REV. NO.	Date	Revision Description	Drawn	Chkd	Appd.

Title:
Consultancy Services for Survey, Design and EIA works of Water Supply and Sewerage Facilities in 5 islands, Maldives - Package 6

Sub Title:
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Project No: 01010101

Rev: R-01 Page: PS5-06