

SECTION  
BORE HOLE DETAIL  
Scale - 1:20

NOTES :

PROJECT :  
DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY & SEWERAGE FACILITIES  
IN 18 ISLANDS, MALDIVES

TITLE :  
TYPICAL BOREHOLE DETAIL

CLIENT :  
MINISTRY OF NATIONAL PLANNING &  
INFRASTRUCTURE

SCALE :  
AS GIVEN

DATE :  
Nov-20

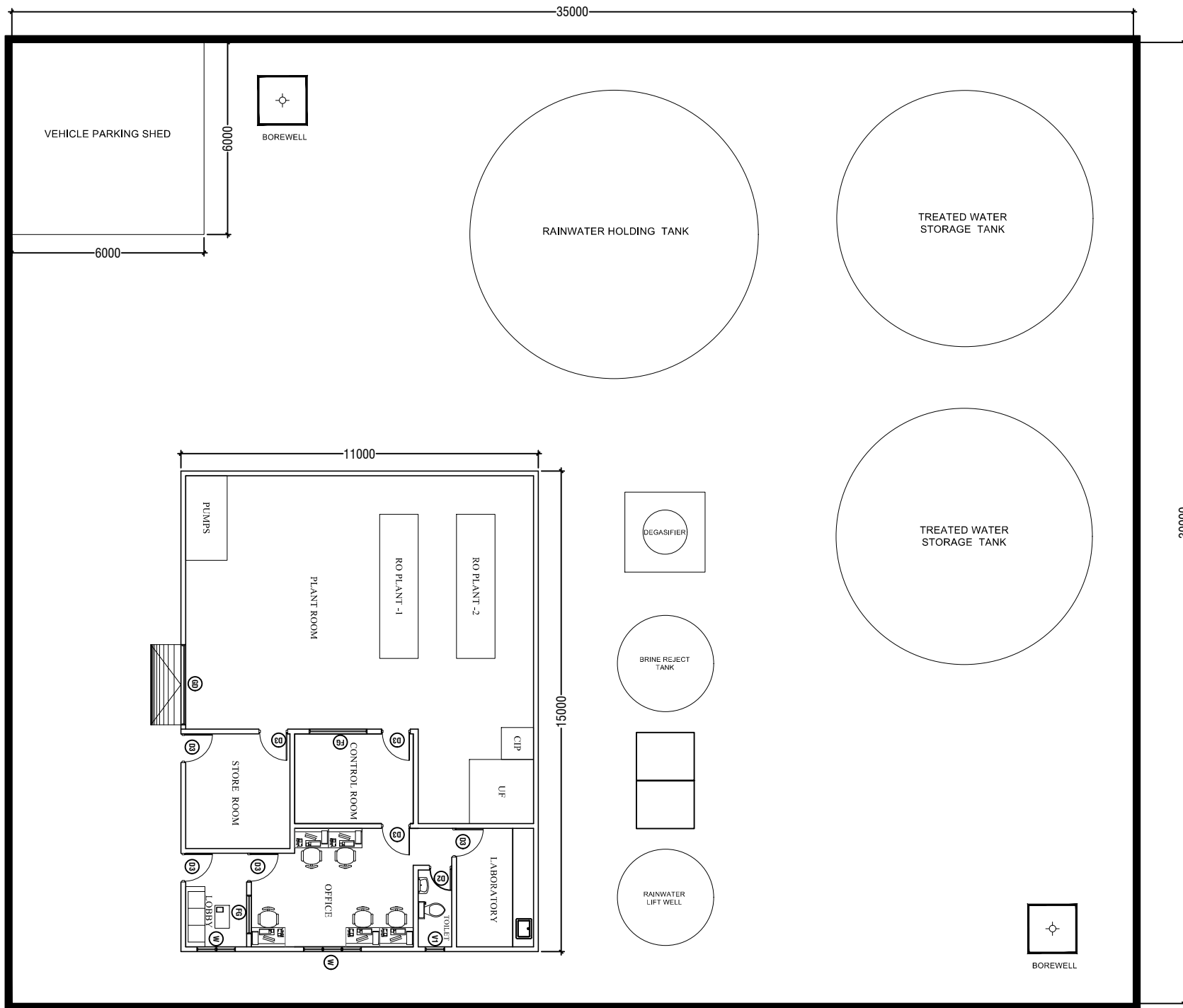
PROJECT NO :

ARCHITECT : -  
ENGINEER : -  
DRAWN BY : -  
CHECKED BY : -  
APPROVED BY : -  
DWG NO :

A- -/-



MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE  
AMEREEH MANSUR MANSUR  
REPUBLIC OF MALDIVES  
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NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY & SEWERAGE  
FACILITIES IN 34 ISLANDS,  
MALDIVES

TITLE :

TYPICAL WTP LAYOUT

CLIENT :

MINISTRY OF NATIONAL PLANNING &  
INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

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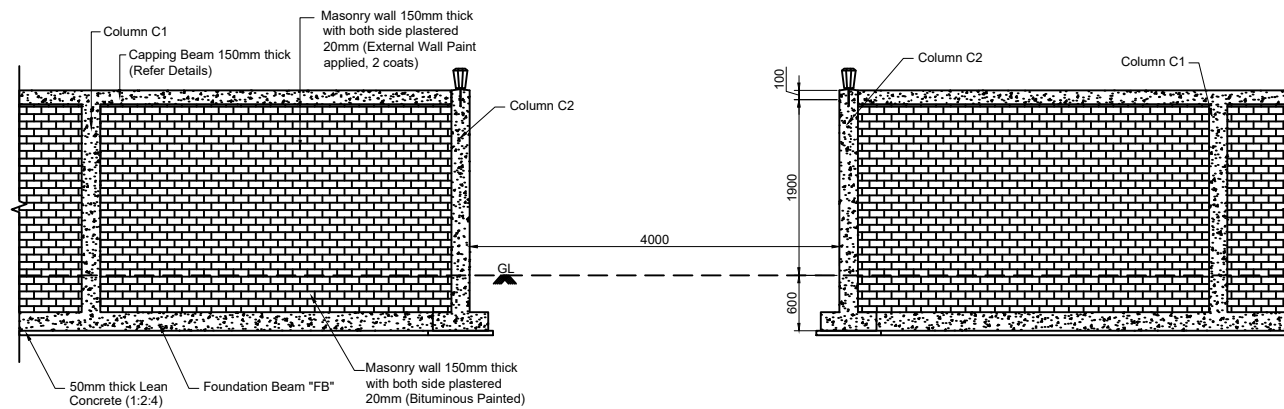
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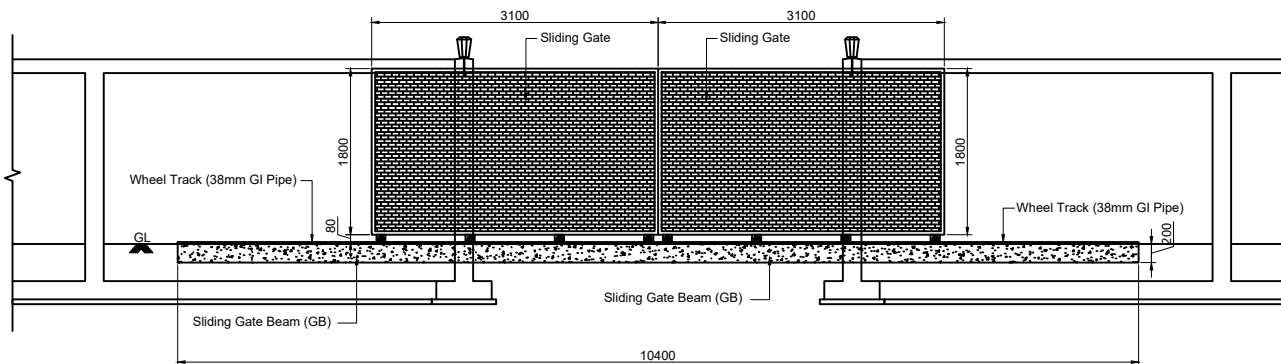
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**Wall Elevation Details**

(Scale: 1:40)



**Gate Details**

(Scale: 1:40)

NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY & SEWERAGE  
FACILITIES IN 18 ISLANDS,  
MALDIVES

TITLE :

TYPICAL FACILITY  
BOUNDARY WALL

CLIENT :

MINISTRY OF NATIONAL PLANNING &  
INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT :

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ENGINEER :

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DRAWN BY :

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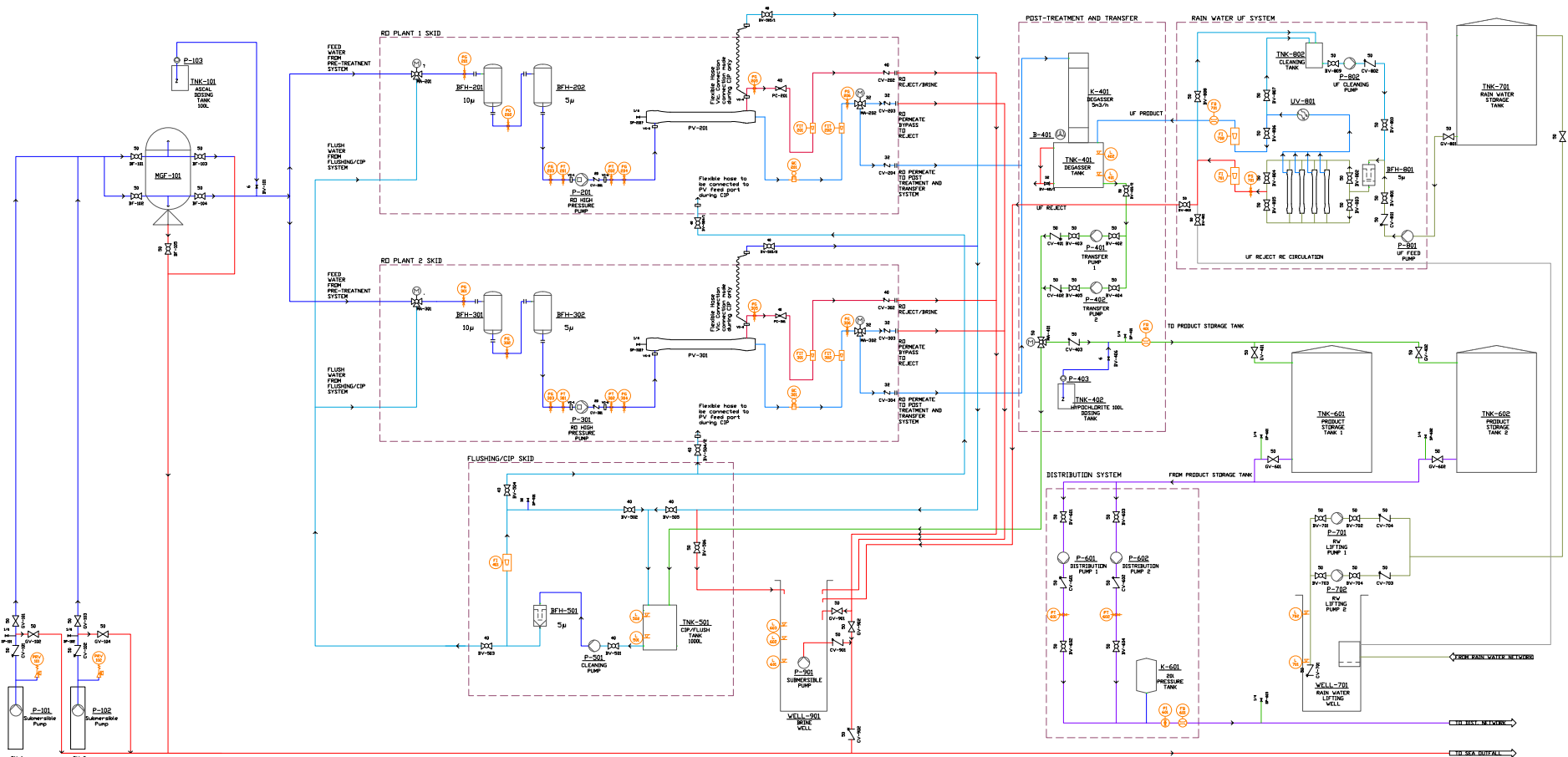
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LEGEND	ABBREVIATION INDEX
CONDUCTIVITY SENSOR	PI - PRESSURE INDICATOR
FLOW TOTALIZER	PT - PRESSURE TRANSMITTER
PRESSURE MEASUREMENT POINT	FM - FLOW METER
PLC CONTROLLER	CC - CONDUCTIVITY
FLOWMETER	CV - CHECK VALVE
BALL VALVE 1-WAY	BV - BALL VALVE
CHECK VALVE	PC - PRESSURE CONTROL
FLANGED CONNECTION	PV - PRESSURE VESSEL
COUPLING	VC - VERTICAL COUPLING
PRESSURE CONTROL VALVE	U - UNION COUPLING
VPS	SP - SAMPLE VALVE

#### NOTES :

#### PROJECT :

DESIGN & BUILD FOR CONSTRUCTION OF WATER SUPPLY & SEWERAGE FACILITIES IN 18 ISLANDS, MALDIVES

#### TITLE :

TYPICAL P & ID DIAGRAM

#### CLIENT :

MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE

#### SCALE :

AS GIVEN

#### DATE :

Nov-20

#### PROJECT NO :

#### ARCHITECT :

#### ENGINEER :

#### DRAWN BY :

#### CHECKED BY :

#### APPROVED BY :

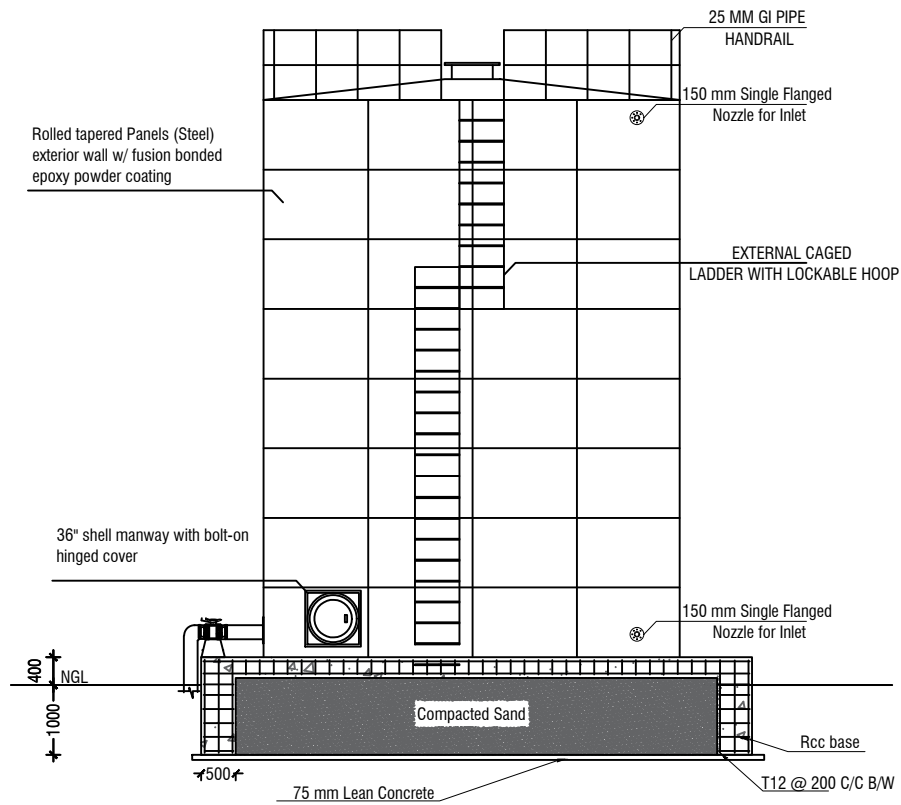
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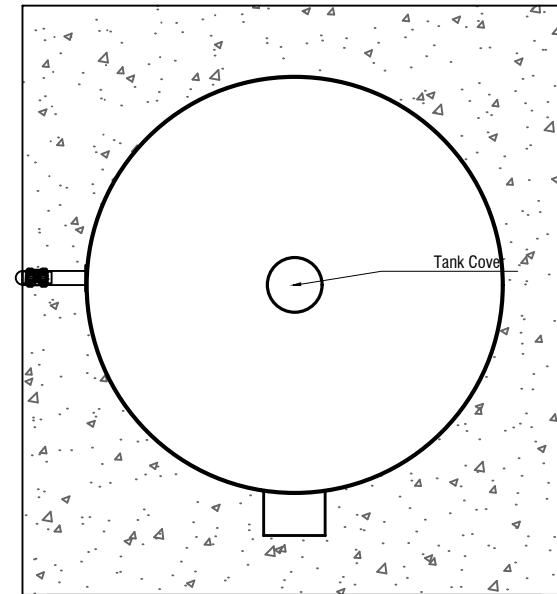


MINISTRY OF NATIONAL PLANNING,  
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ANTHONY MARCO MALDI  
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**TREATED WATER/RAINWATER STORAGE TANK**



NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY & SEWERAGE  
FACILITIES IN 18 ISLANDS,  
MALDIVES

TITLE :

TYPICAL STORAGE TANK

CLIENT :

MINISTRY OF NATIONAL  
PLANNING & INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT :

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ENGINEER :

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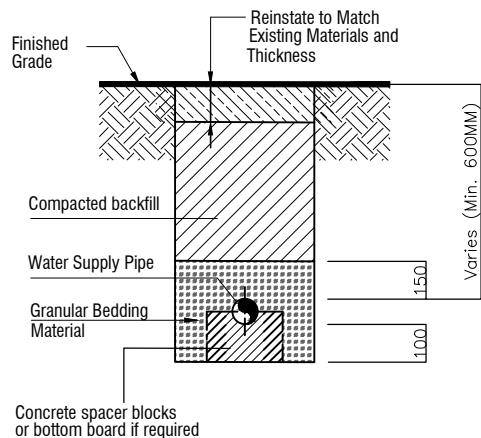
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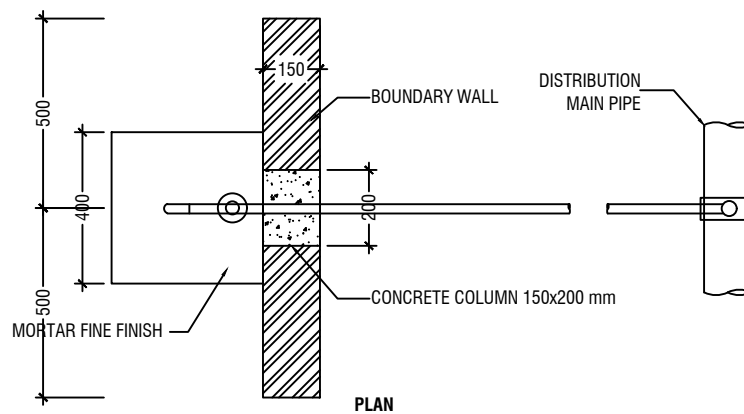


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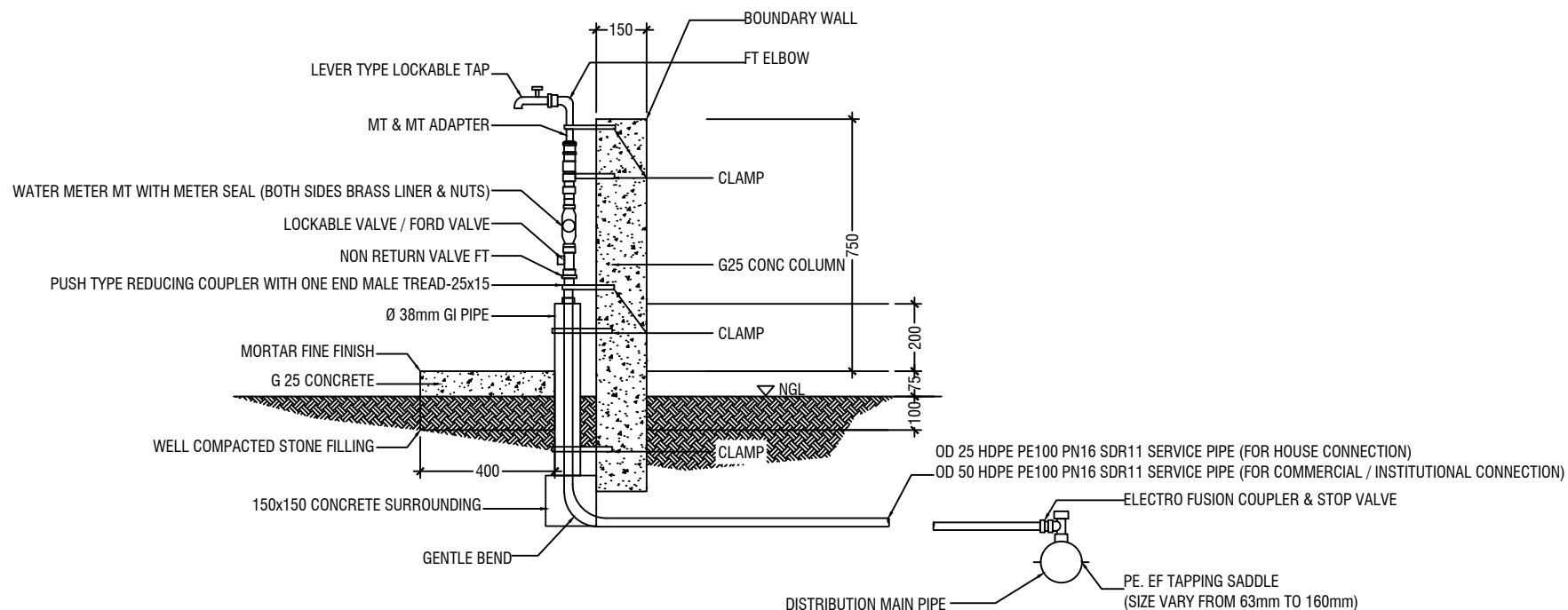
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TYPICAL PIPE TRENCH



HOUSE CONNECTION DETAIL



## WATER SUPPLY HOUSE CONNECTION

NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY & SEWERAGE  
FACILITIES IN 18 ISLANDS,  
MALDIVES

TITLE :

TYPICAL WATER SUPPLY  
CONNECTION

CLIENT :

MINISTRY OF NATIONAL  
PLANNING & INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT :

ENGINEER :

DRAWN BY :

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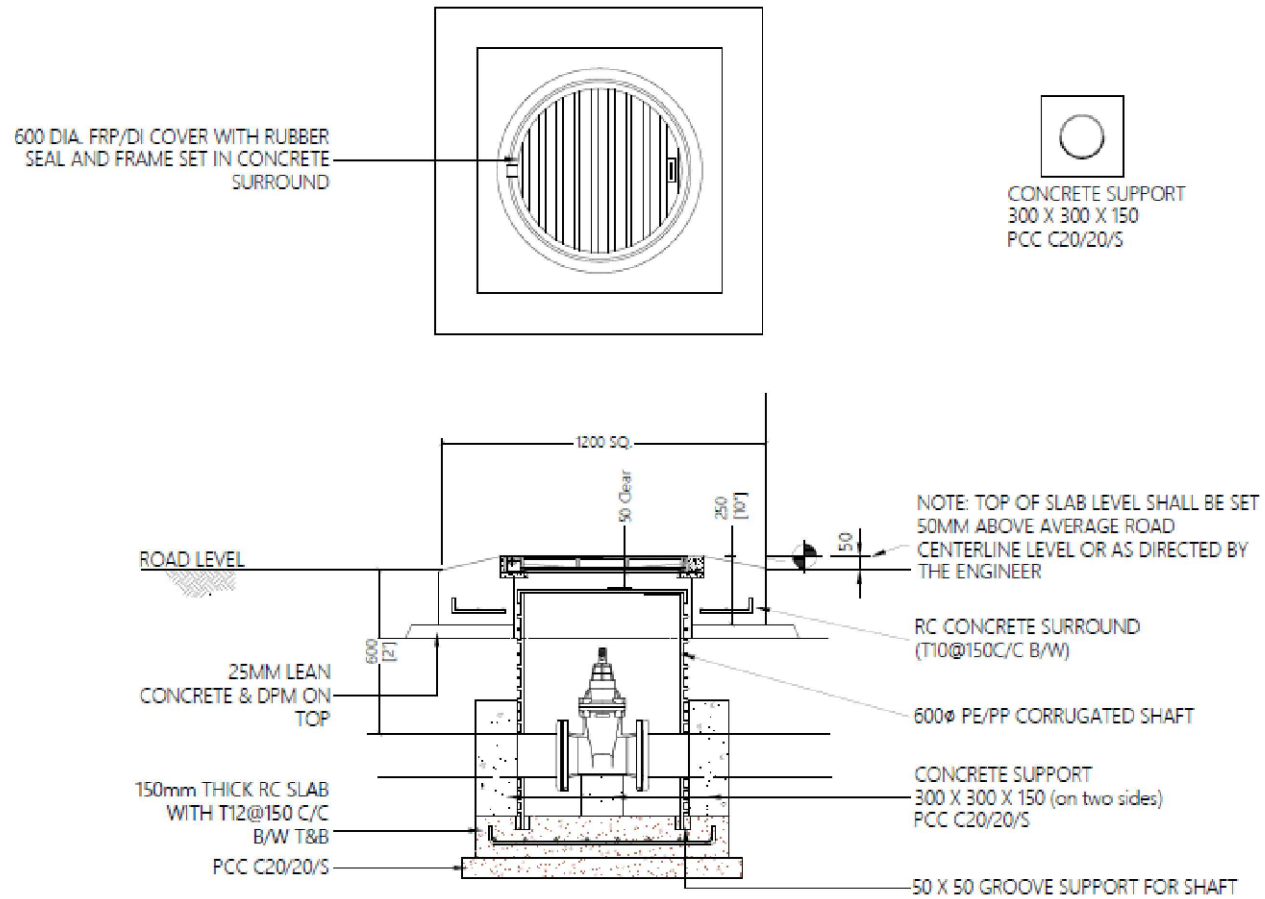
DWG NO :

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SECTION - VALVE CHAMBER

NOTES :

PROJECT :

DESIGN & BUILD FOR CONSTRUCTION OF WATER SUPPLY & SEWERAGE FACILITIES IN 18 ISLANDS, MALDIVES

TITLE :

TYPICAL VALVE CHAMBER

CLIENT :

MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT :

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ENGINEER :

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DRAWN BY :

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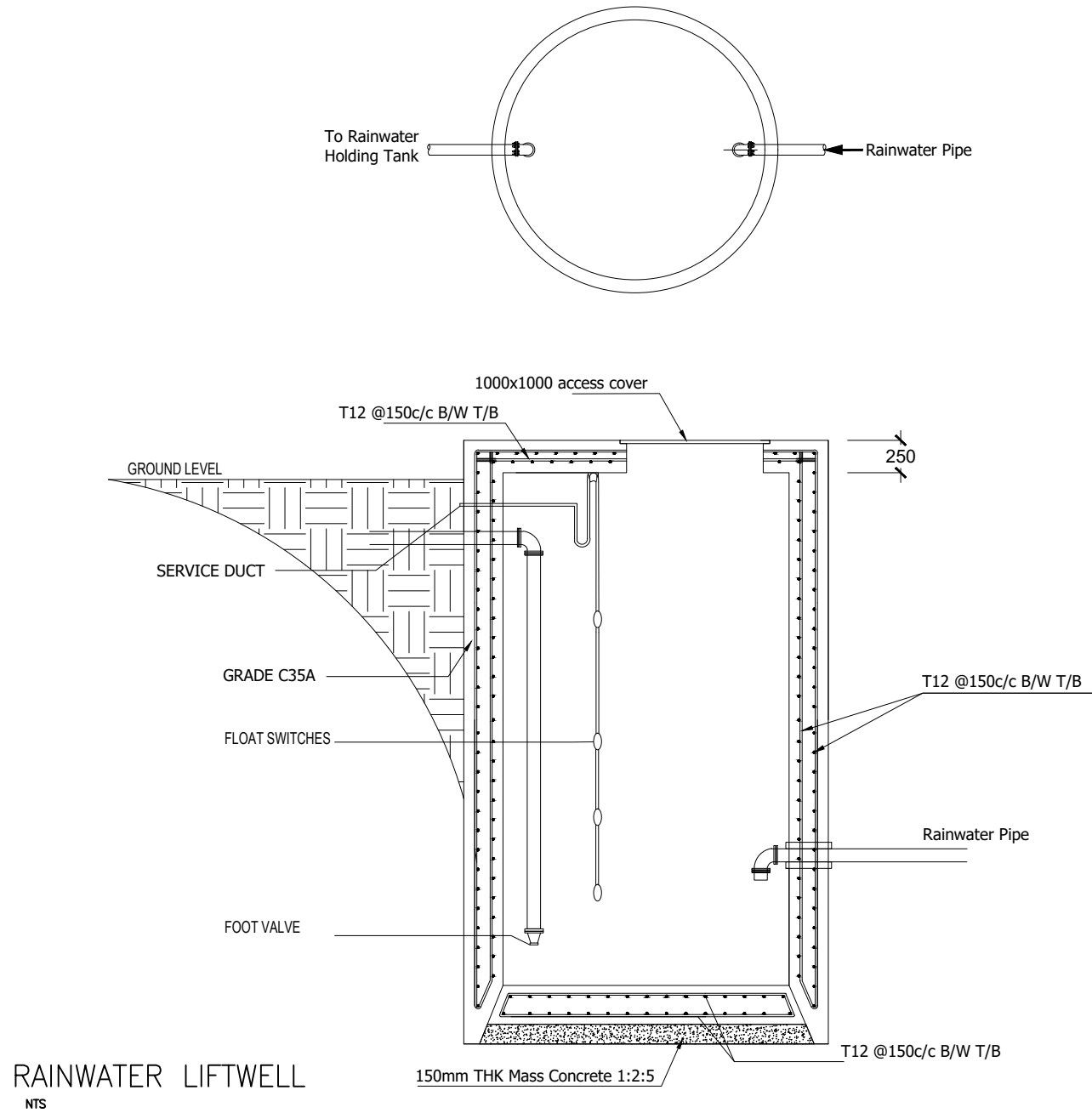
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RAINWATER LIFTWELL  
NTS

NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY & SEWERAGE FACILITIES  
IN 18 ISLANDS, MALDIVES

TITLE :

TYPICAL RAINWATER LIFTWELL

CLIENT :

MINISTRY OF NATIONAL PLANNING &  
INFRASTRUCTURE

SCALE :

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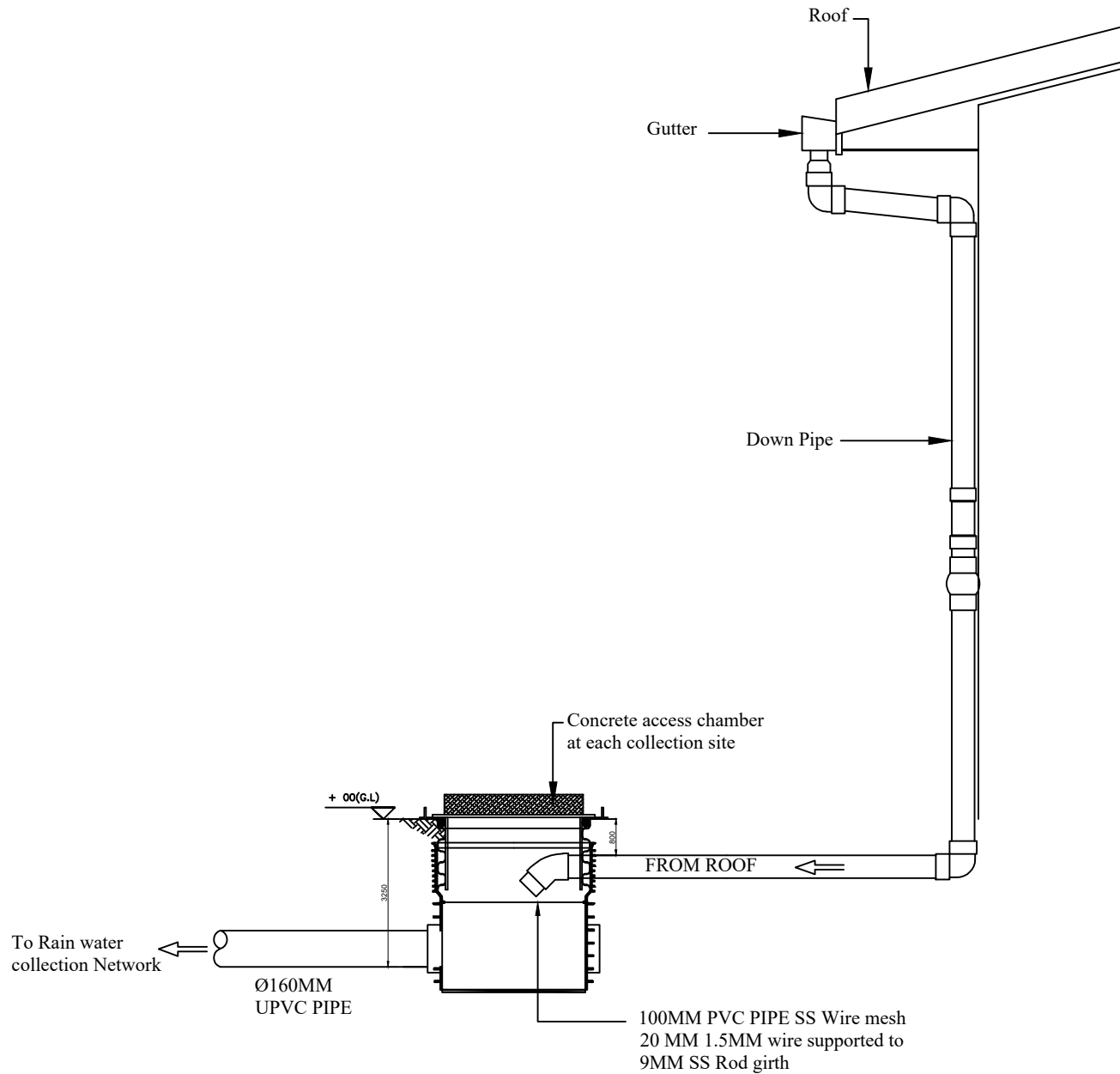
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## FIRST FLUSH MECHANISM

NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY & SEWERAGE  
FACILITIES IN 18 ISLANDS,  
MALDIVES

TITLE :

TYPICAL DOWNTAKE  
ARRANGEMENT

CLIENT :

MINISTRY OF NATIONAL PLANNING &  
INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

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TEL: 444-0170, FAX: 444-0171, WEB: www.planning.gov.mv

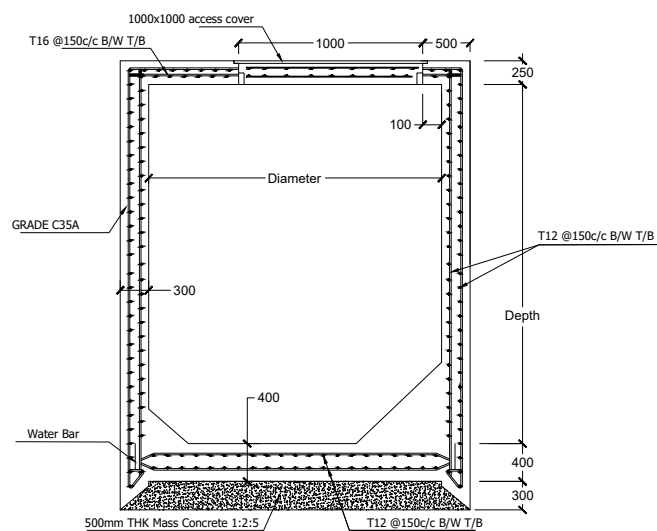


1. All structural concrete shall be of grade C35A.
2. All castings shall be done using Sulpahte Resistant Portland Cement to BS 4027:1996.
3. All structural reinforcement shall be epoxy coating of non-pre-stressed reinforcement to ASTM-A775/A775M.

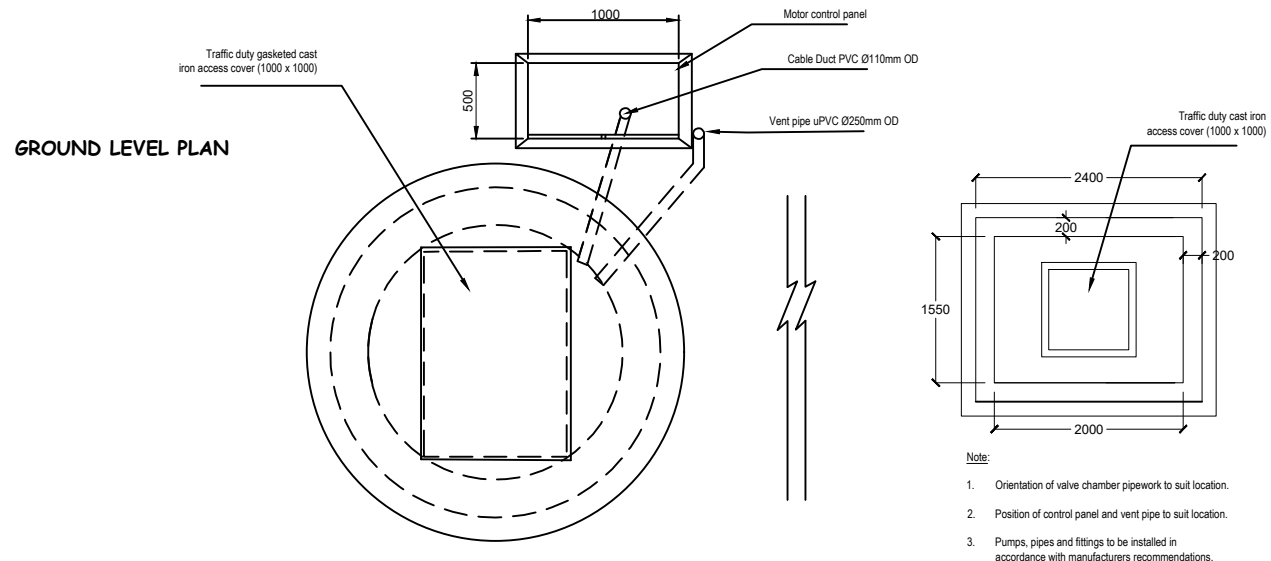
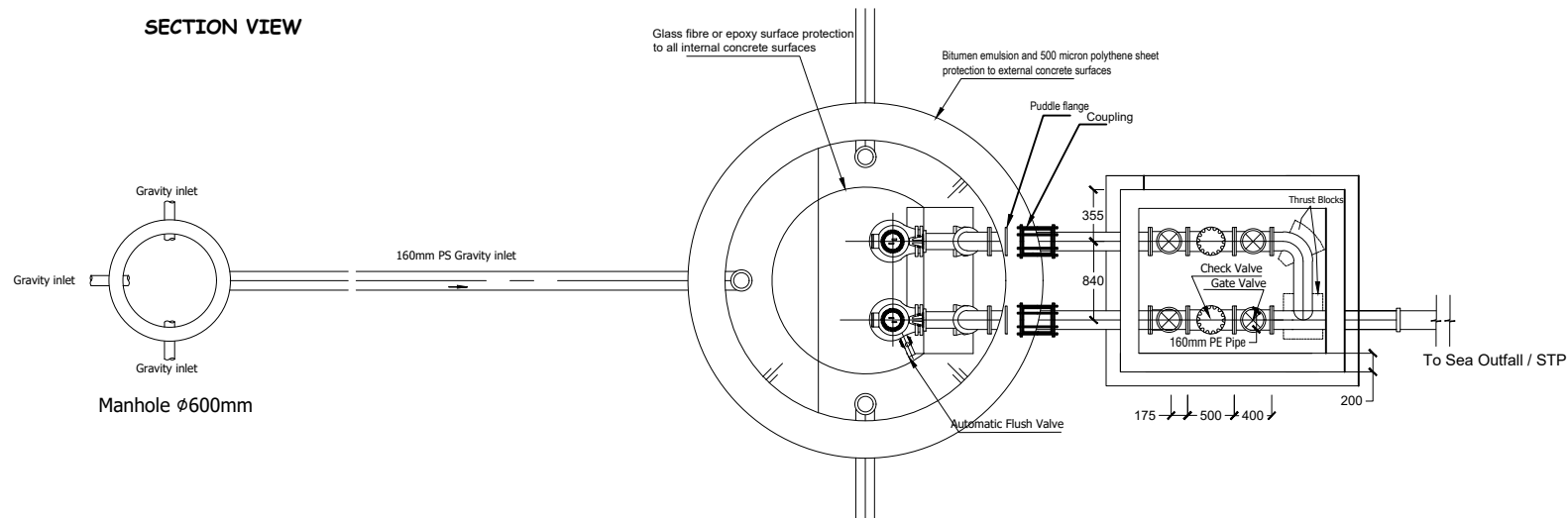


## VALVE CHAMBER DETAIL

PUMPING STATION STRUCTURAL DETAILS  
Scale: N.T.S



AMEENEE MADU MALE  
REPUBLIC OF MALDIVES  
TEL: 4304700, FAX: 4304701, WEB: [www.planning.gov.mv](http://www.planning.gov.mv)



NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER SUPPLY  
& SEWERAGE FACILITIES IN 18  
ISLANDS, MALDIVES

TITLE :

Typical Pump Station

CLIENT :

MINISTRY OF NATIONAL PLANNING &  
INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT :

-

ENGINEER :

-

DRAWN BY :

-

CHECKED BY :

-

APPROVED BY :

-

DWG NO :

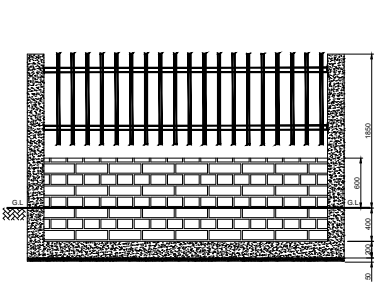
A- -/-

NA - 0

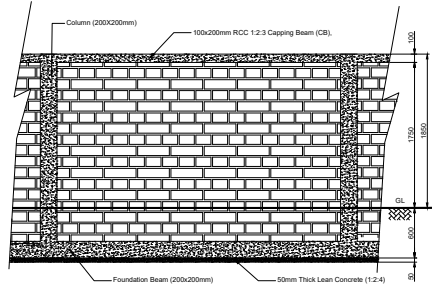


MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE

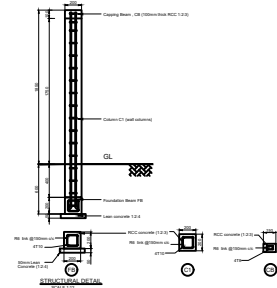
AMEREEH MANSUR MANSUR  
REPUBLIC OF MALDIVES  
TEL: 444-0700, FAX: 444-0701, WEB: www.nationalplanning.gov.mv



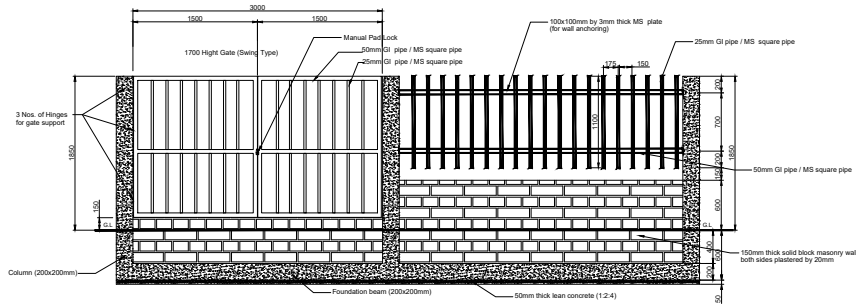
BOUNDARY WALL FENCING ALONG THE ROAD SIDE



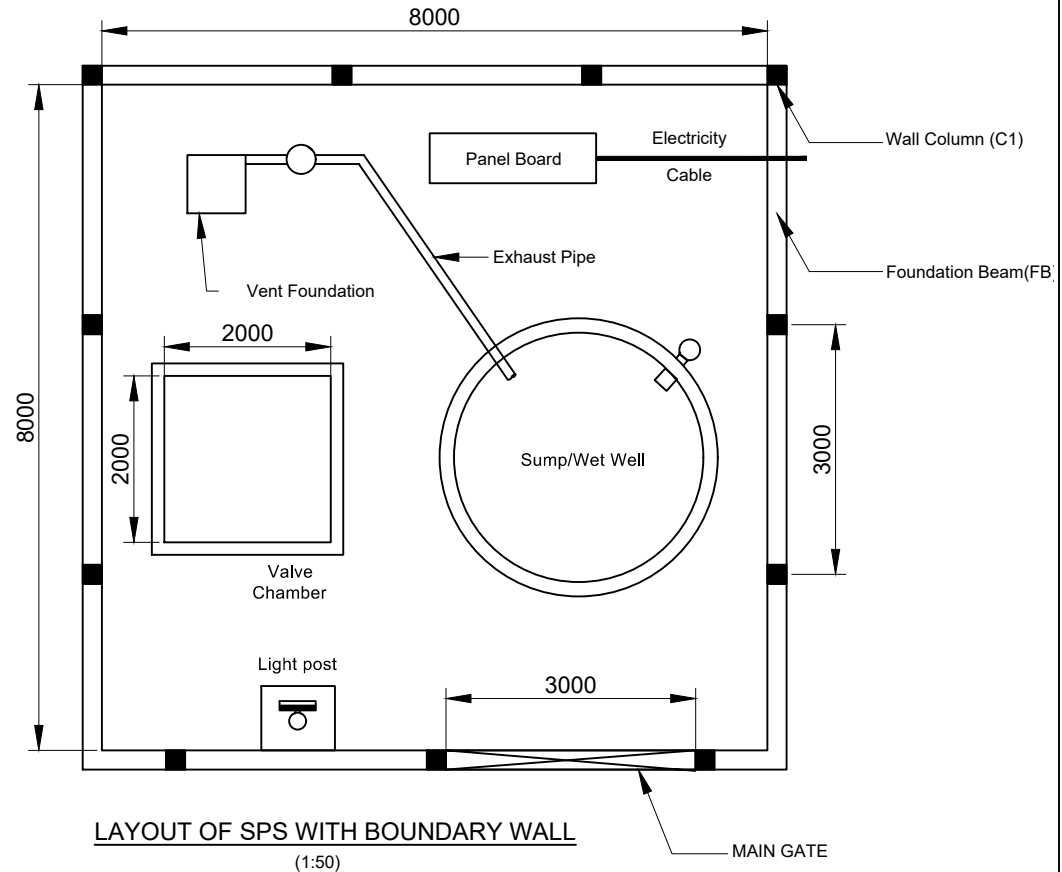
BOUNDARY WALL ALONG ADJACENT TO ANOTHER ROAD / PLOT



STRUCTURAL DETAIL



BOUNDARY WALL FENCING & STEEL GATE ELEVATION DETAILS



LAYOUT OF SPS WITH BOUNDARY WALL

(1:50)

NOTES :

PROJECT :  
DESIGN & BUILD FOR  
CONSTRUCTION OF WATER  
SUPPLY & SEWERAGE  
FACILITIES IN 18 ISLANDS,  
MALDIVES

TITLE :  
PUMP STATION PLOT  
LAYOUT  
CLIENT :  
MINISTRY OF NATIONAL  
PLANNING & INFRASTRUCTURE

SCALE :  
AS GIVEN

DATE :  
Nov-20

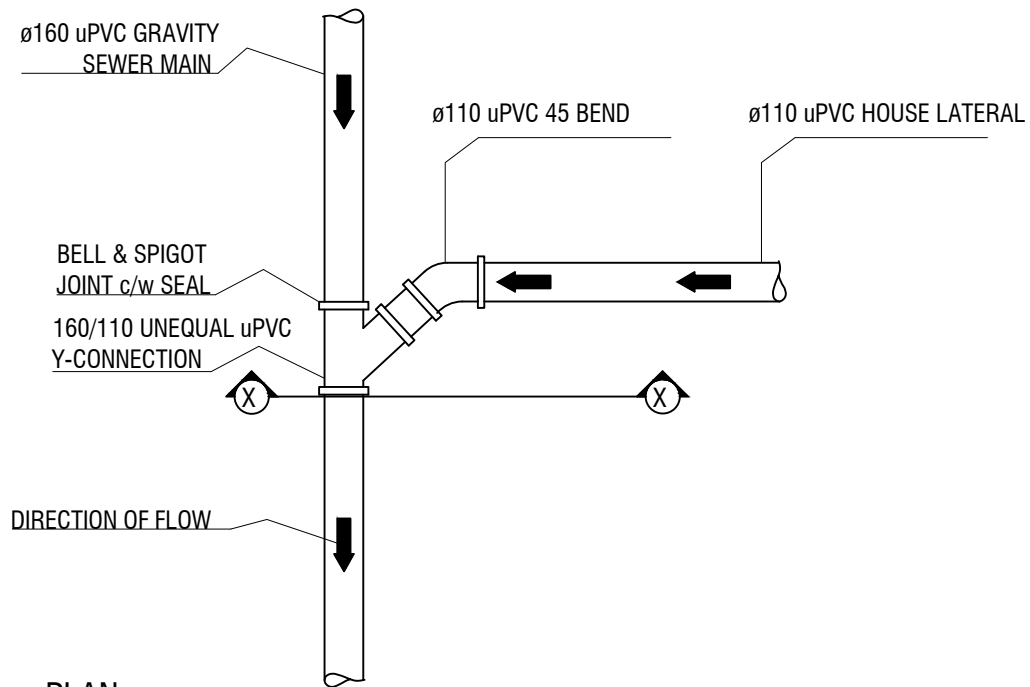
PROJECT NO :

ARCHITECT : -  
ENGINEER : -  
DRAWN BY : -  
CHECKED BY : -  
APPROVED BY : -  
DWG NO :

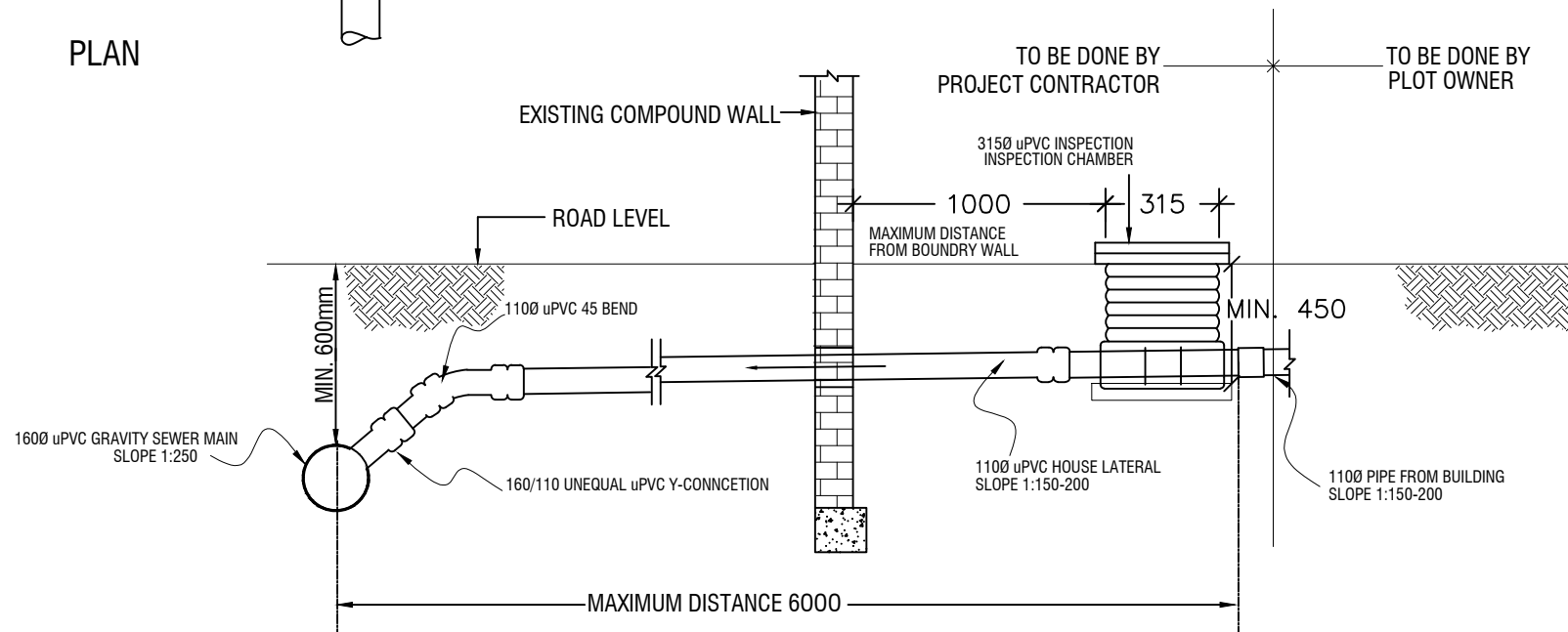
A- -/-



MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE  
AMEREEH MAHDI BALE  
REPUBLIC OF MALDIVES  
TEL: 444-0700, FAX: 44-0707, WEB: www.planning.gov.mv



PLAN



SECTION

**TYPICAL HOUSE CONNECTION DETAIL**  
N.T.S

NOTES :

PROJECT :  
DESIGN & BUILD FOR  
CONSTRUCTION OF WATER SUPPLY  
& SEWERAGE FACILITIES IN 18  
ISLANDS, MALDIVES

TITLE :  
SEWERAGE COLLECTION SYSTEM

CLIENT :  
MINISTRY OF NATIONAL PLANNING &  
INFRASTRUCTURE

SCALE :  
AS GIVEN

DATE :  
Nov-20

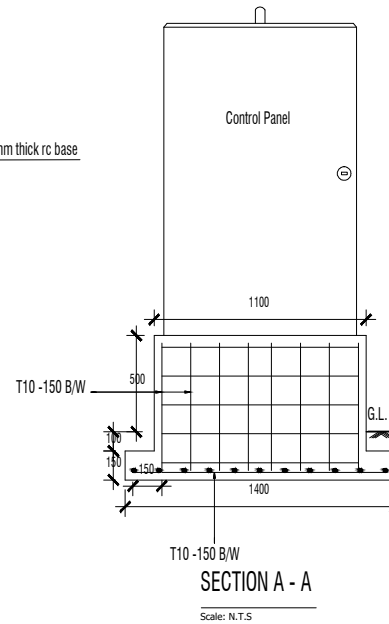
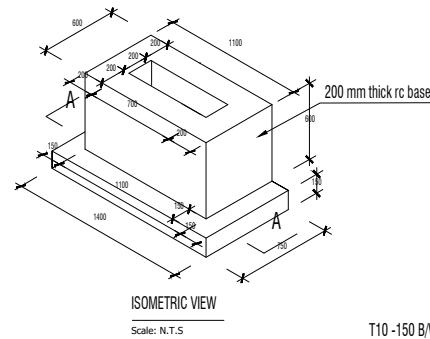
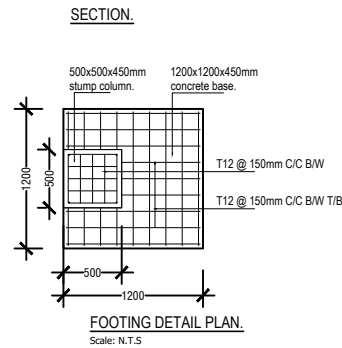
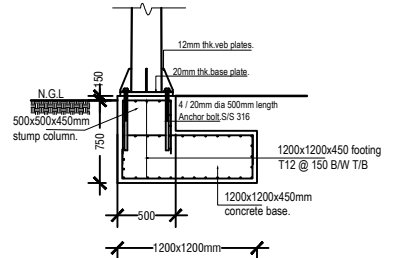
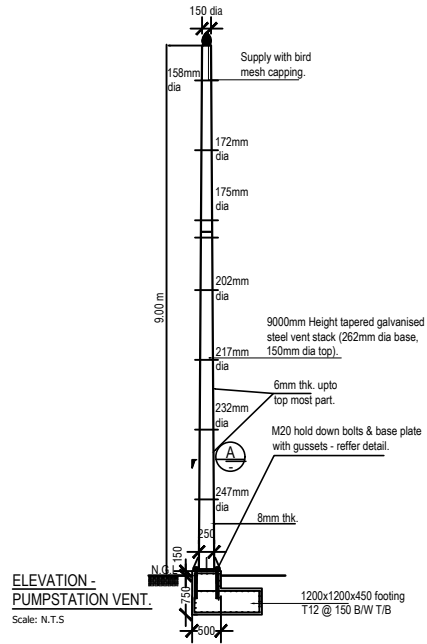
PROJECT NO :

ARCHITECT : -  
ENGINEER : -  
DRAWN BY : -  
CHECKED BY : -  
APPROVED BY : -  
DWG NO :

A- -/-



MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE  
AMEREEH BANGU BANGU  
REPUBLIC OF MALDIVES  
TEL: 444-0100, FAX: 44-0101, WEB: www.planing.gov.mv



NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER SUPPLY  
& SEWERAGE FACILITIES IN 18  
ISLANDS, MALDIVES

TITLE :

Vent Pipe & Control Panel

CLIENT :

MINISTRY OF NATIONAL PLANNING &  
INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT :

-

ENGINEER :

-

DRAWN BY :

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CHECKED BY :

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APPROVED BY :

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DWG NO :

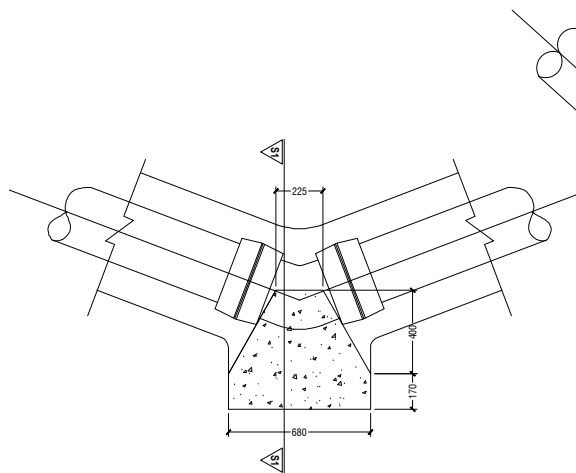
A- -/-

N/A - 09

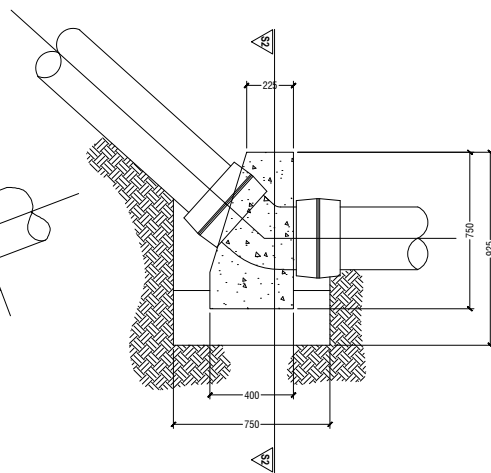


MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE

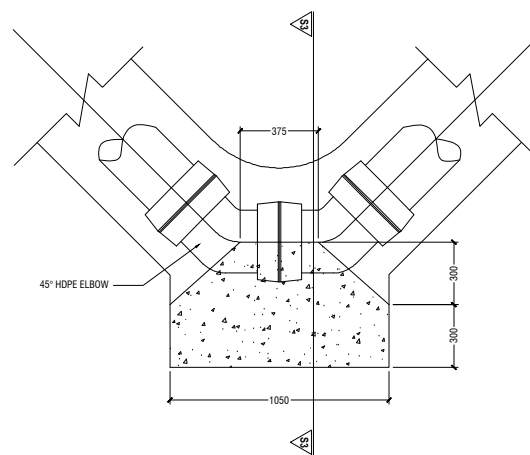
AMEREEH HANU HALE  
REPUBLIC OF MALDIVES  
TEL: 444-0700, FAX: 444-0701, WEB: www.nationalplanning.gov.mv



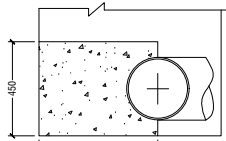
**HORIZONTAL 45° BEND**  
NTS



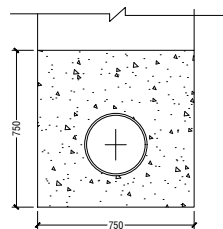
**VERTICAL 45° BEND**  
NTS



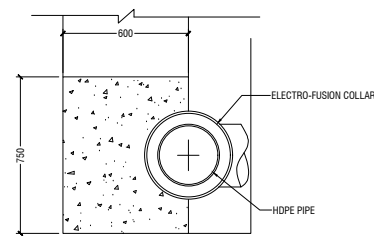
**HORIZONTAL 90° BEND**  
NTS



**SECTION S1-S1**  
NTS



**SECTION S2-S2**  
NTS



**SECTION S3-S3**  
NTS

**THRUST BLOCK DETAIL - FORCE MAINS ONLY**

SCALE 1:20  
0 0.1 0.2 0.4 0.6 0.8 1

NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER SUPPLY  
& SEWERAGE FACILITIES IN 18  
ISLANDS, MALDIVES

TITLE :

SEWERAGE COLLECTION SYSTEM

CLIENT :

MINISTRY OF NATIONAL PLANNING &  
INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT : -

ENGINEER : -

DRAWN BY : -

CHECKED BY : -

APPROVED BY : -

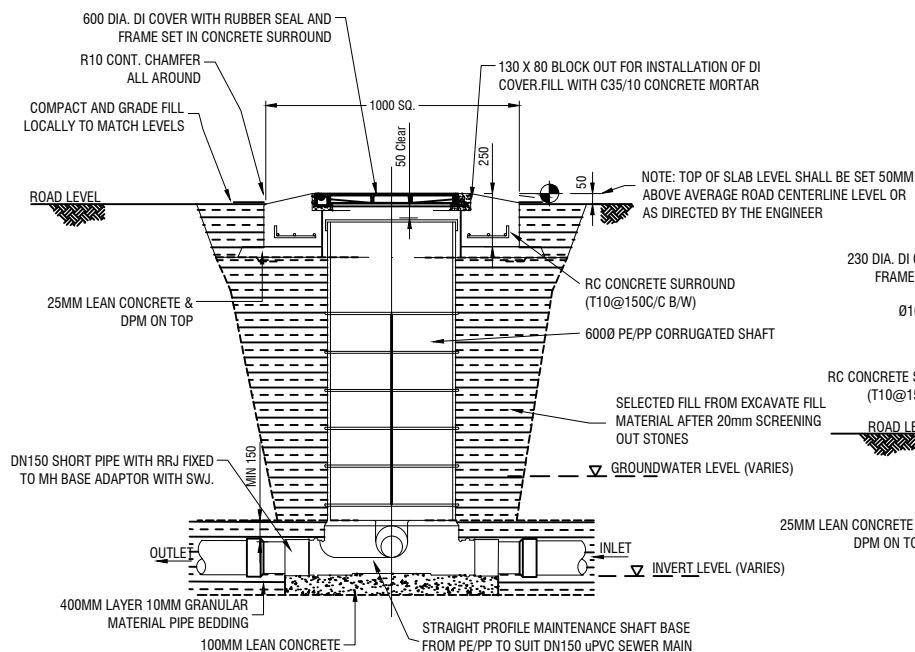
DWG NO :

A- -/-



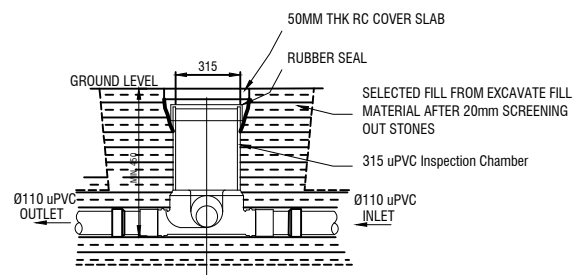
MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE

AMEREEH HANU HANU  
REPUBLIC OF MALDIVES  
TEL: 444-0700, FAX: 44-0707, WEB: www.planning.gov.mv



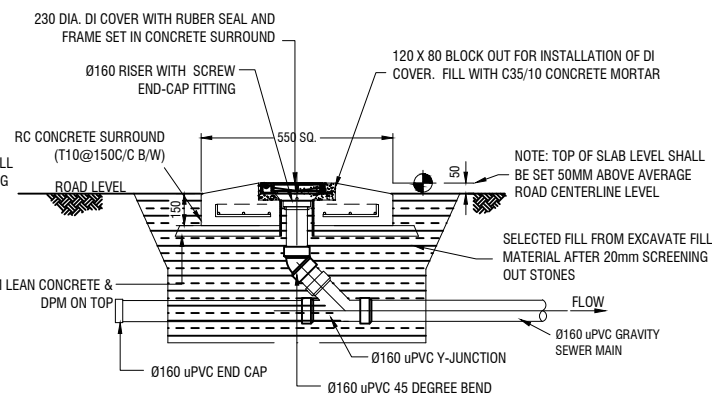
**ELEVATION - MAINTENANCE SHAFT (MH)**

Scale 1:20



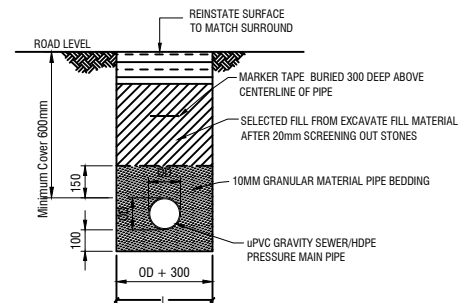
**HOUSE INSPECTION CHAMBER (IC)**

Scale 1:20



**ELEVATION - CLEANOUT (CO)**

Scale 1:20



**TRENCH & BEDDING DETAILS**

Scale 1:20

NOTES :

PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER SUPPLY  
& SEWERAGE FACILITIES IN 18  
ISLANDS, MALDIVES

TITLE :

SEWERAGE COLLECTION SYSTEM

CLIENT :

MINISTRY OF NATIONAL PLANNING &  
INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT : -

ENGINEER : -

DRAWN BY : -

CHECKED BY : -

APPROVED BY : -

DWG NO :

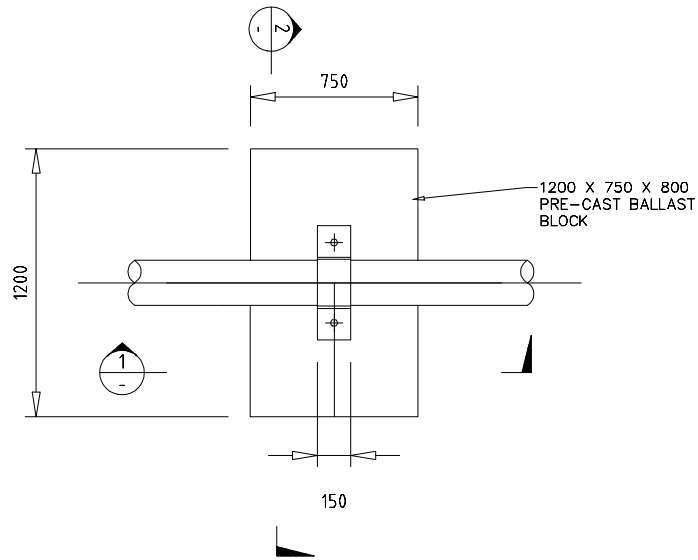
A- -/-



MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE

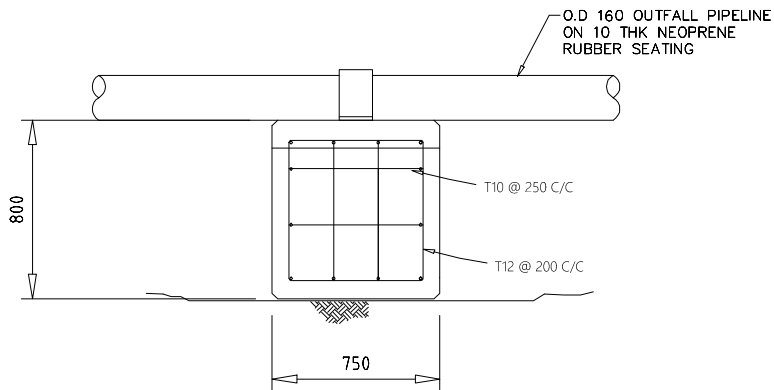
AMEREEH HANU HALE  
REPUBLIC OF MALDIVES  
TEL: 444-0100, 444-0000, 0010; WWW.PLANNING.GOV.MV





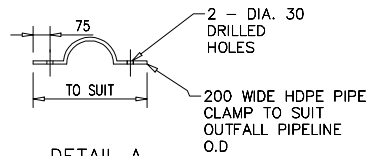
PLAN PRE-CAST BALLAST BLOCK

Scale: N.T.S



ELEVATION

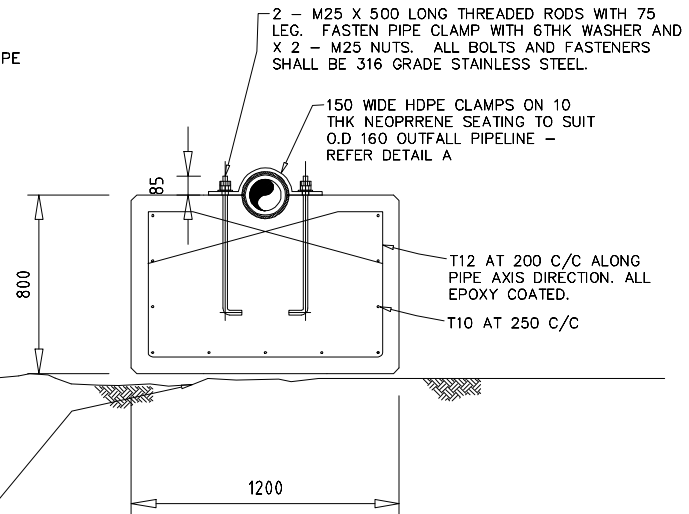
Scale: N.T.S



DETAIL A

PRE-CAST BALLAST BLOCK

PREPARE SEABED PRIOR TO PLACEMENT OF BALLAST BLOCKS MAX. +/- 25MM AMPLITUDE

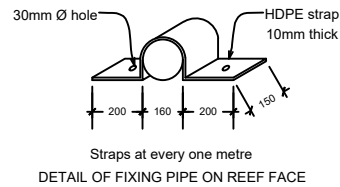


SECTION - PRE-CAST BALLAST BLOCK ASSEMBLY

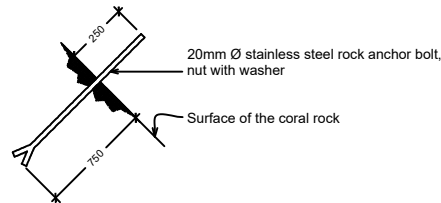
Scale: N.T.S

NOTES:

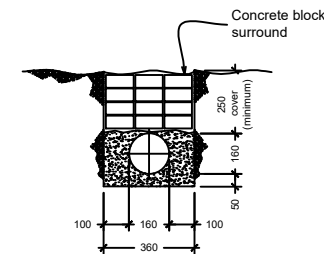
1. MIN 75MM COVER TO ALL REINFORCEMENT BARS.
2. ALL REINFORCEMENT SHALL BE EPOXY COATED PRIOR TO PLACEMENT OF CONCRETE.
3. PRE-CAST BALLAST BLOCKS SHALL BE FABRICATED WITH N40 / 20 CONCRETE.



DETAIL OF FIXING PIPE ON REEF FACE



ANCHOR BOLT DETAIL FOR FIXING OUTFALL PIPE ON STEEP REEF SLOPES



BURIED SECTION DETAIL

SEA OUTFALL FIXING DETAIL

Scale: N.T.S

NOTES :

PROJECT :

DESIGN & BUILD FOR CONSTRUCTION OF WATER SUPPLY & SEWERAGE FACILITIES IN 18 ISLANDS, MALDIVES

TITLE :

Sea Outfall

CLIENT :

MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT :

-

ENGINEER :

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DRAWN BY :

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CHECKED BY :

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APPROVED BY :

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DWG NO :

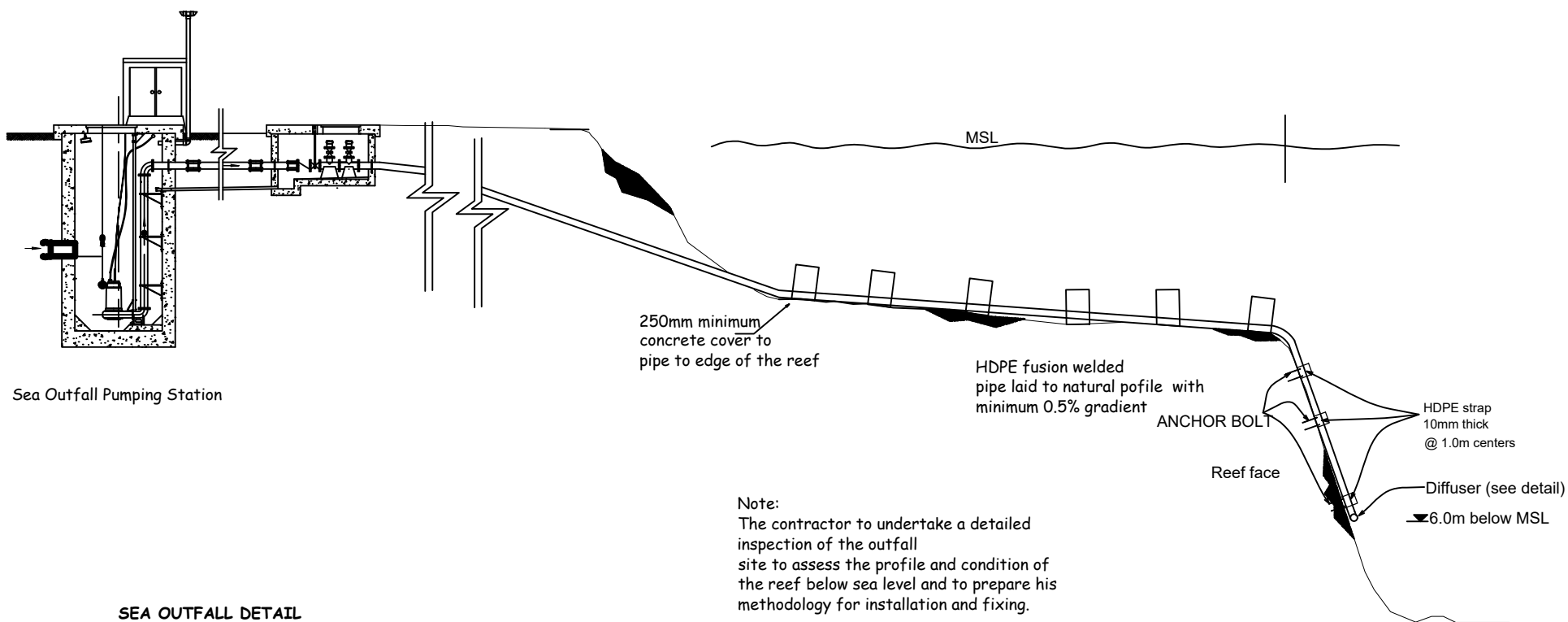
A- -/-



MINISTRY OF NATIONAL PLANNING, HOUSING AND INFRASTRUCTURE

AMEREEH BAKSHI, HOD  
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TEL: 444-0100, FAX: 44-0101, WEB: www.npi.gov.mv





### SEA OUTFALL DETAIL

Scale: N.T.S

NOTES :

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PROJECT :

DESIGN & BUILD FOR  
CONSTRUCTION OF WATER SUPPLY  
& SEWERAGE FACILITIES IN 18  
ISLANDS, MALDIVES

TITLE :

Sea Outfall

CLIENT :

MINISTRY OF NATIONAL PLANNING &  
INFRASTRUCTURE

SCALE :

AS GIVEN

DATE :

Nov-20

PROJECT NO :

ARCHITECT : -

ENGINEER : -

DRAWN BY : -

CHECKED BY : -

APPROVED BY : -

DWG NO :

A- -/-



MINISTRY OF NATIONAL PLANNING,  
HOUSING AND INFRASTRUCTURE

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TEL: 444-0100, FAX: 44-00101, WEB: www.planning.gov.mv