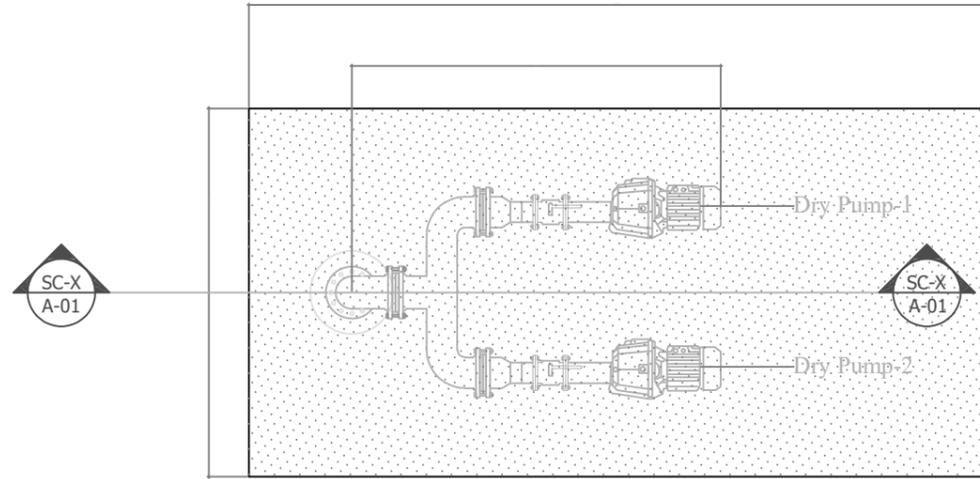
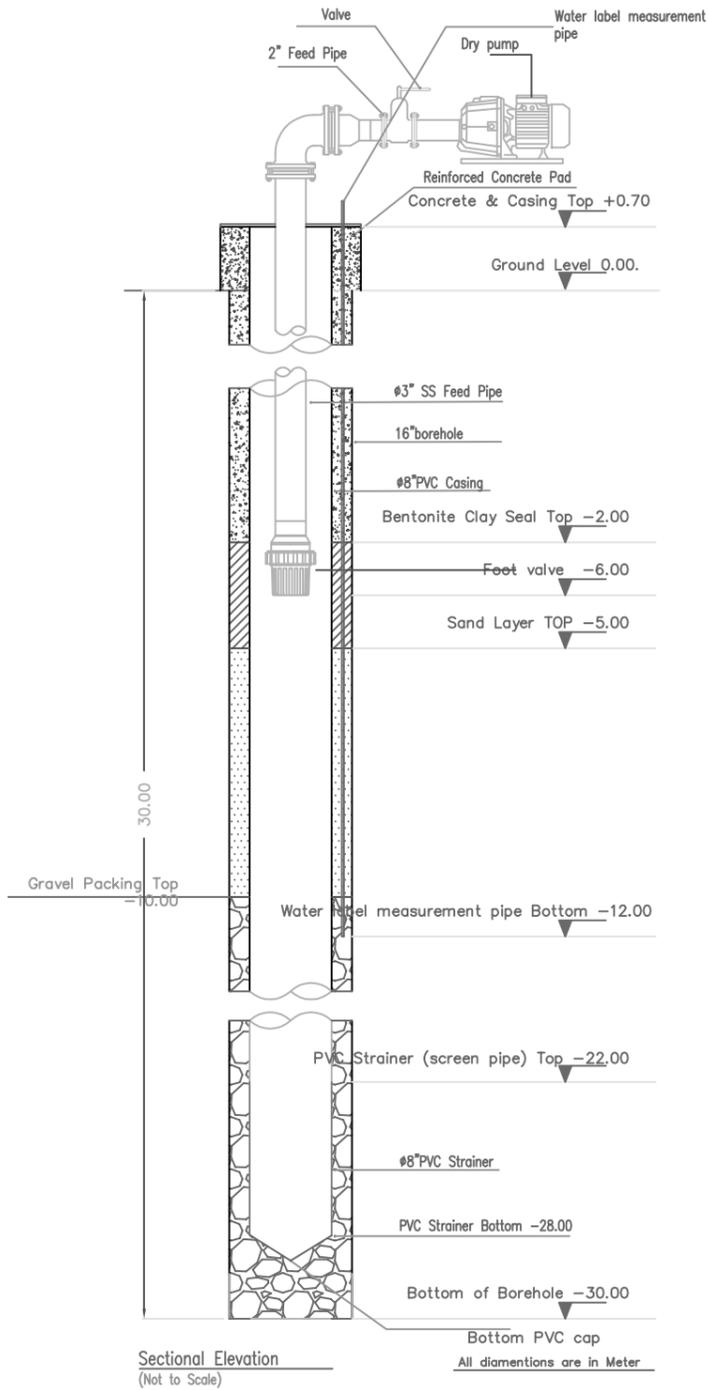


DRAWING LEGEND

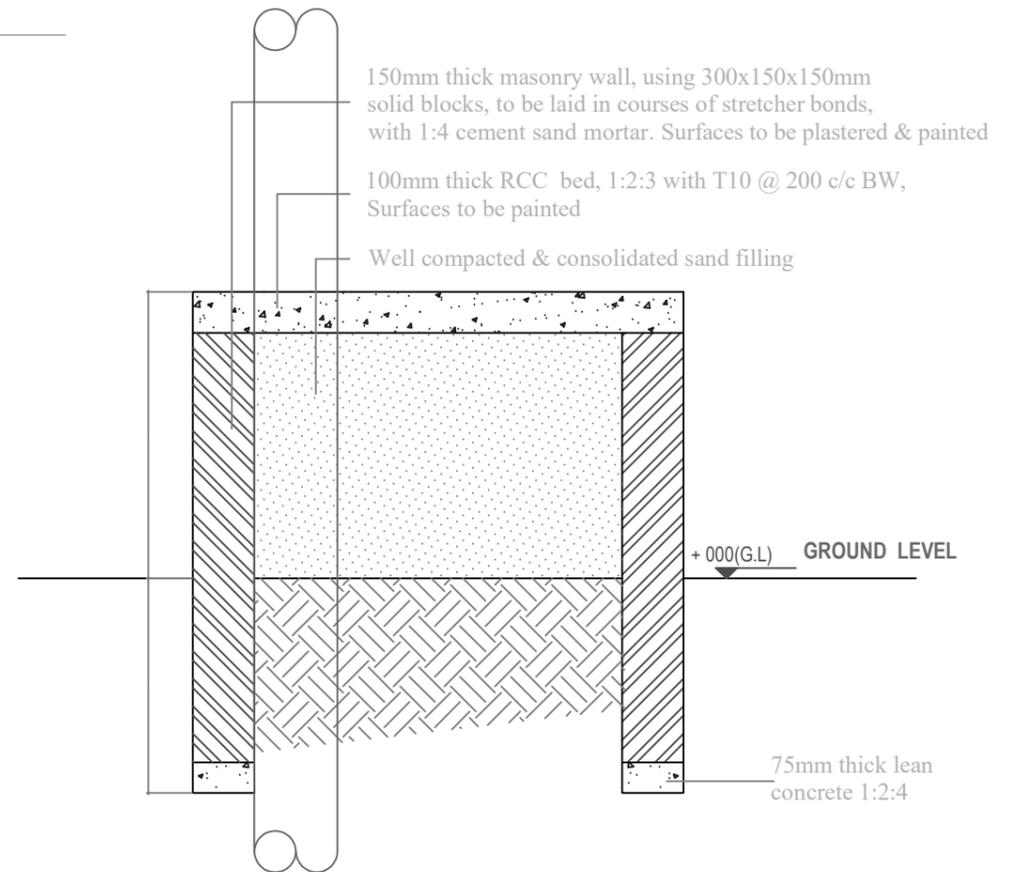
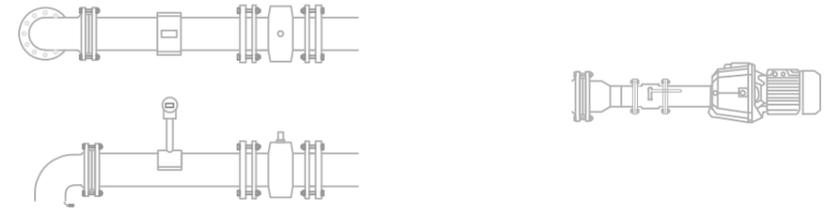
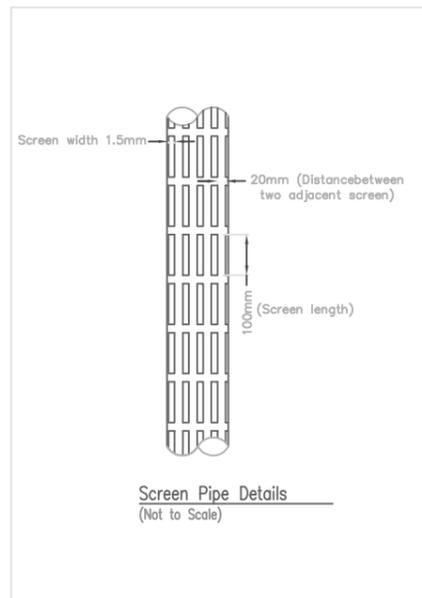
- BF : Bag Filter
- BWP: Bore well pump
- BV : Butterfly Valve
- GV : Gate Valve
- MV : Motorized Valve
- PG : Pressure gauge / Transmitter
- HPP : High pressure Pump
- PV : Pressure Vessel
- CV : Check Valve
- FM : Rotary Flow meter
- T : Flow meter - Totalizer
- TP : Transfer Pump
- TK : Tank
- QIT : Conductivity meter
- CP : CIP Pump
- DEG : Degasify Unit
- CL : Chlorine dosing unit
- V : Ball Valve
- UV : UV Disinfection unit
- UF : Ultra filtration unit
- ARV : Air Relief Valve

ARCH. DESIGN: -	PROJECT: WATER AND SANITATION	
STRUC. DESIGN: -	CONTENTS: TYPICAL DRAWINGS	
DRAWN BY: -	SCALE: -	
DATE: FEBRUARY 2019	DWG NO: TYP/W01	
CLIENT: -	FILE:	
NOTES: -	MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE AMEENEE MAGU, MAAFANNU, MALE', 20392, REPUBLIC OF MALDIVES TEL: +960 3004300, FAX: +960 3004301	



WELL HEAD - PLAN

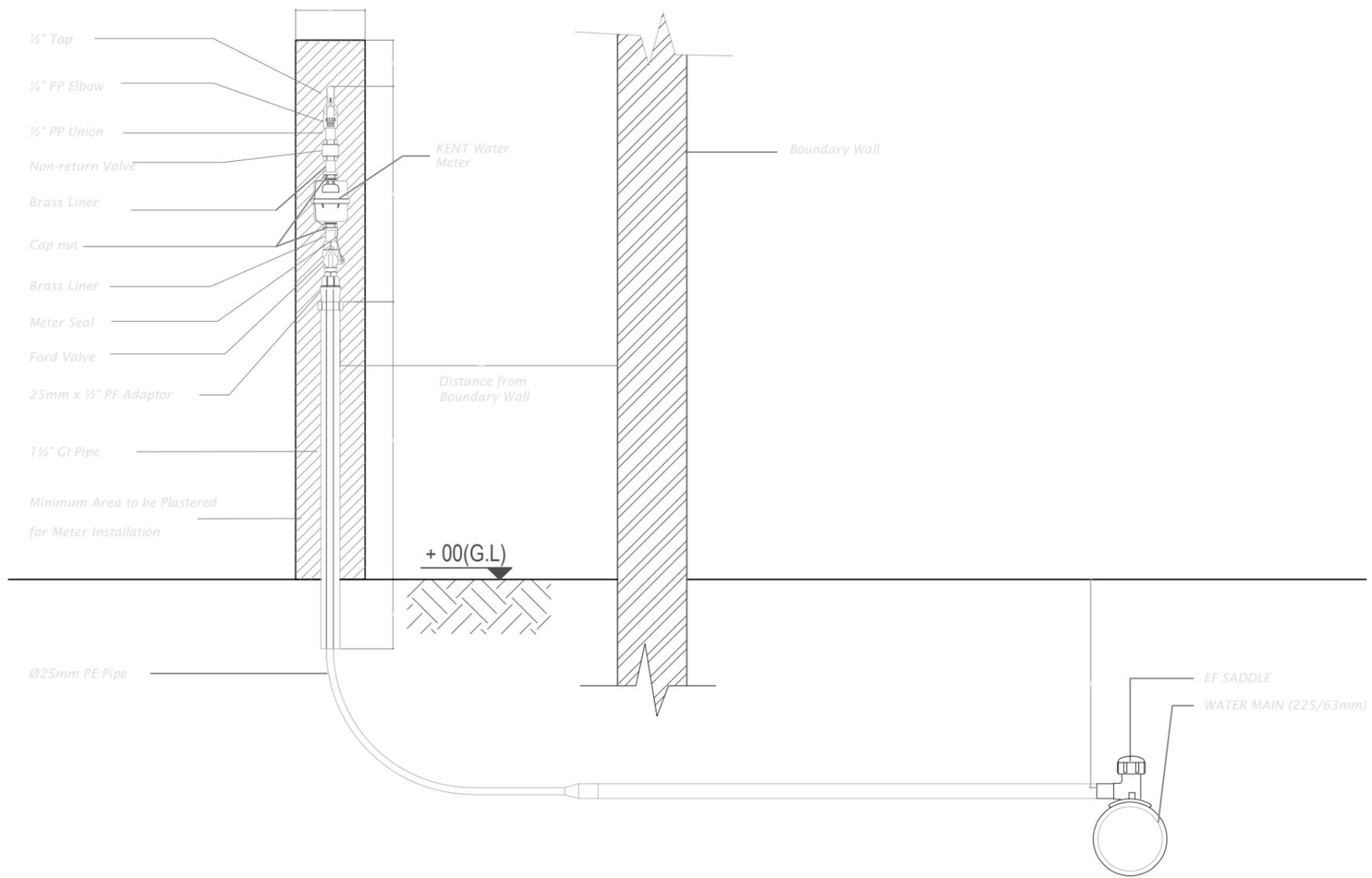
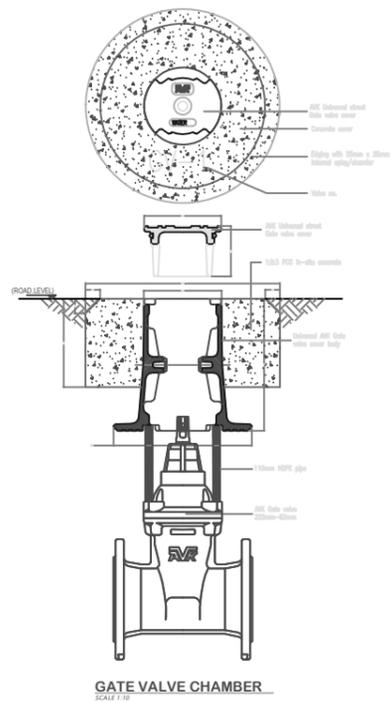
SCALE 1:20



SECTION X-X

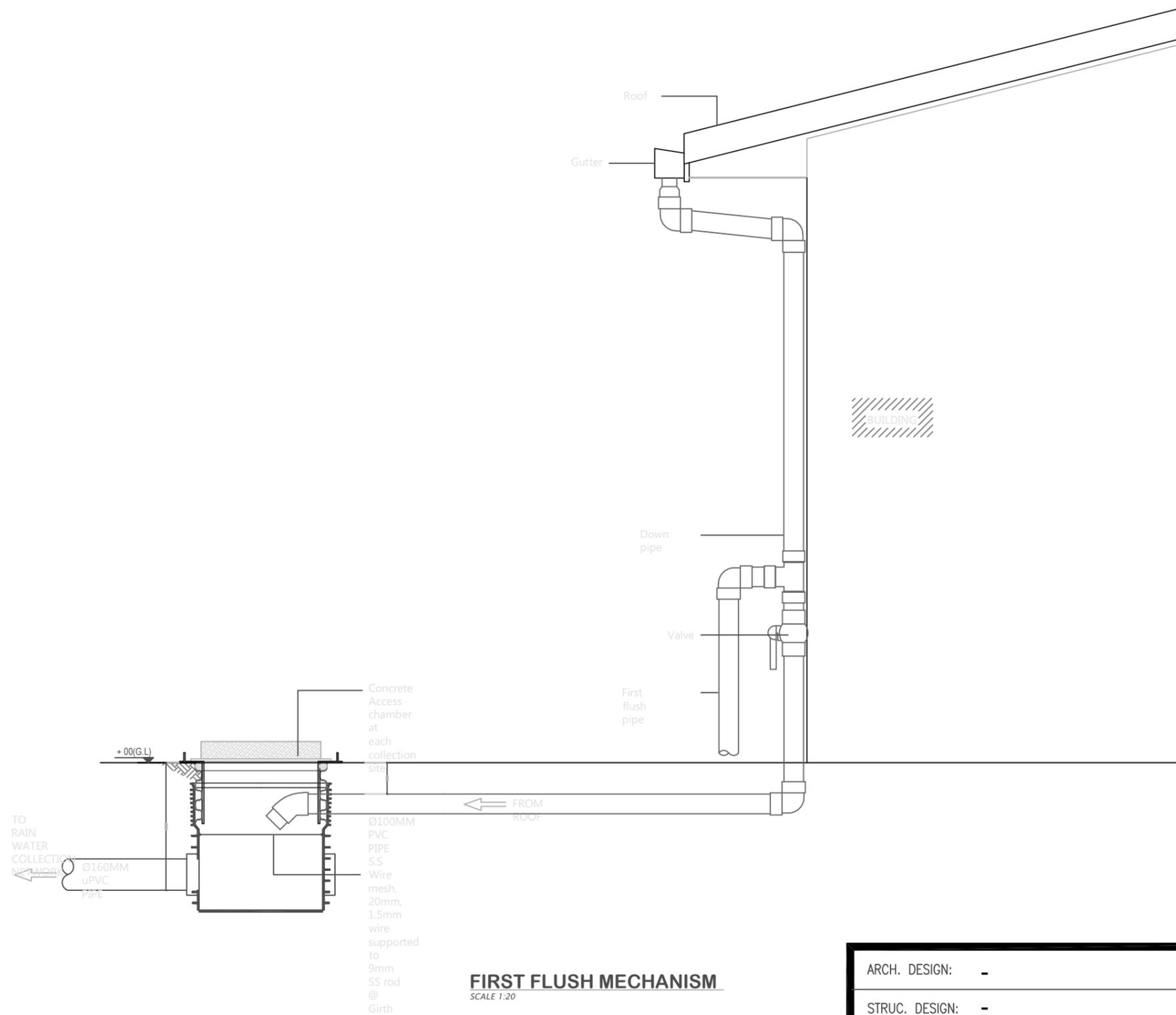
SCALE 1:20

ARCH. DESIGN: -	PROJECT: WATER AND SANITATION	
STRUC. DESIGN: -	CONTENTS: TYPICAL DRAWINGS	
DRAWN BY: -	SCALE: -	
DATE: FEBRUARY 2019	FILE:	DWG NO: TYP/W02
CLIENT: -	 MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE AMEENEE MAGU, MAAFANNU, MALE', 20392, REPUBLIC OF MALDIVES TEL: +960 3004300, FAX: +960 3004301	
NOTES: -		



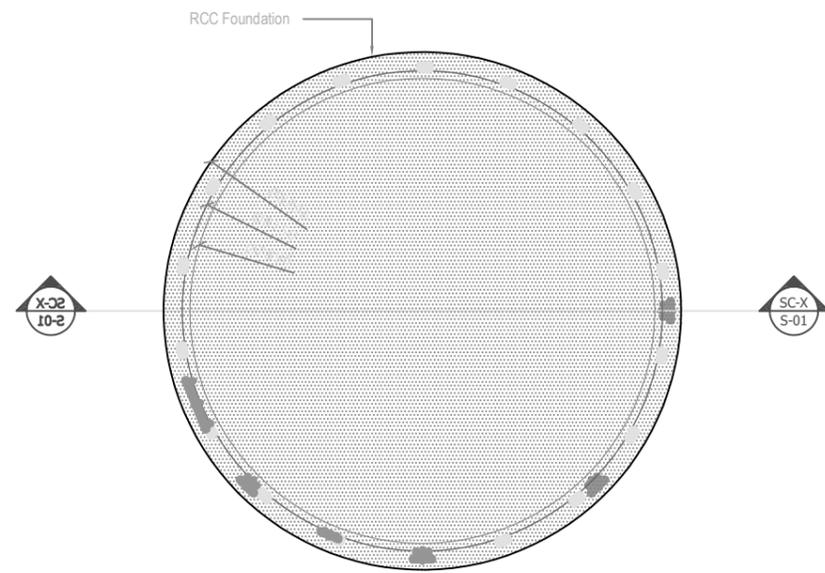
HOUSE CONNECTION DETAIL
SCALE 1:10

ARCH. DESIGN: -	PROJECT: WATER AND SANITATION	
STRUC. DESIGN: -	CONTENTS: TYPICAL DRAWINGS	
DRAWN BY: -	DATE: FEBRUARY 2019	
CLIENT: -	SCALE: -	DWG NO: TYP/W03
NOTES: -	FILE:	
	 MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE AMEENEE MAGU, MAAFANNU, MALE', 20392, REPUBLIC OF MALDIVES TEL: +960 3004300, FAX: +960 3004301	



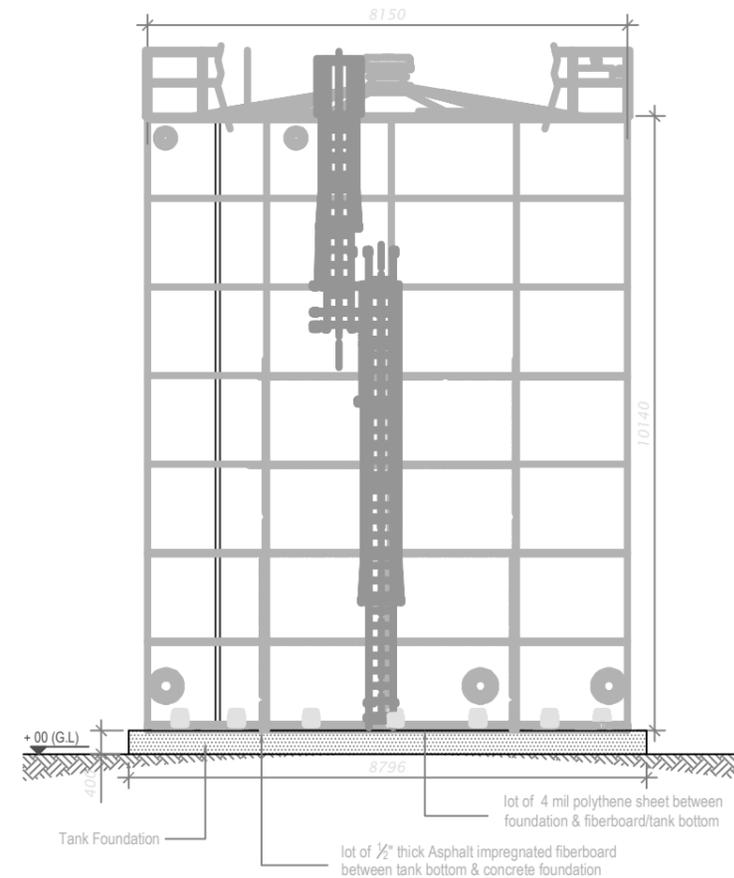
FIRST FLUSH MECHANISM
SCALE 1:20

ARCH. DESIGN: -	PROJECT: WATER AND SANITATION	
STRUC. DESIGN: -	CONTENTS: TYPICAL DRAWINGS	
DRAWN BY: -	DATE: FEBRUARY 2019	
CLIENT: -	SCALE: -	DWG NO: TYP/W04
NOTES: -	FILE:	
	 MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE AMEENEE MAGU, MAAFANNU, MALE', 20392, REPUBLIC OF MALDIVES TEL: +960 3004300, FAX: +960 3004301	



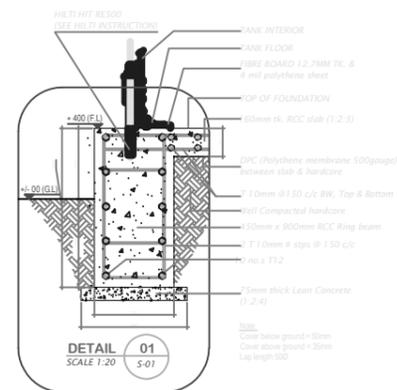
PRODUCT WATER TANK & FOUNDATION PLAN

SCALE 1:100

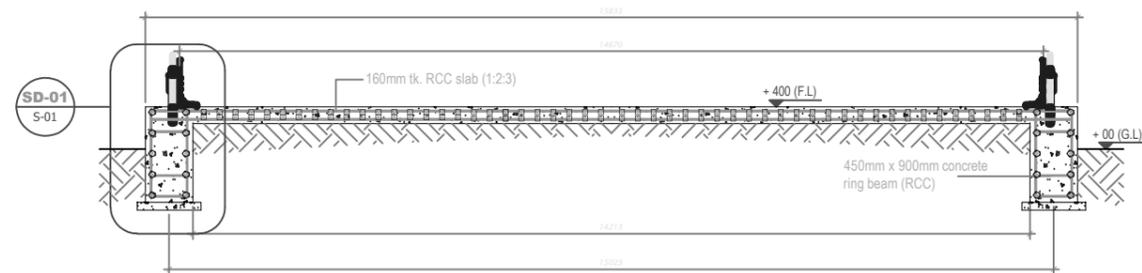


PRODUCT WATER TANK & FOUNDATION - ELEVATION

SCALE NTS



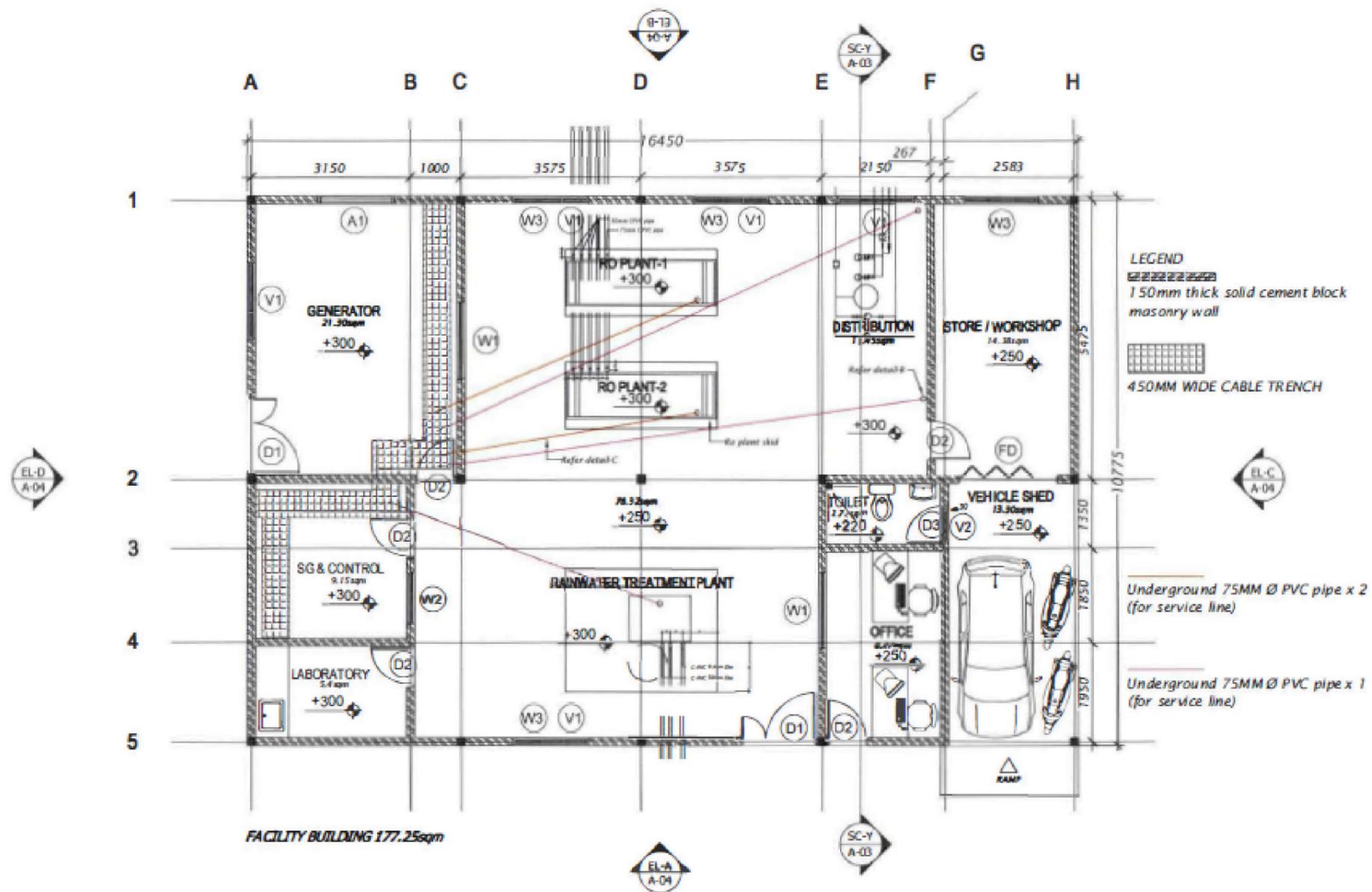
DETAIL 01
SCALE 1:20
S-01



SECTION X-X (01)

SCALE 1:50

ARCH. DESIGN: -	PROJECT: WATER AND SANITATION	
STRUC. DESIGN: -	CONTENTS: TYPICAL DRAWINGS	
DRAWN BY: -	DATE: FEBRUARY 2019	
CLIENT: -	SCALE: -	DWG NO: TYP/W05
	FILE:	
NOTES: -	 MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE AMEENEE MAGU, MAAFANNU, MALE', 20392, REPUBLIC OF MALDIVES TEL: +960 3004300, FAX: +960 3004301	



FACILITY BUILDING 177.25sqm

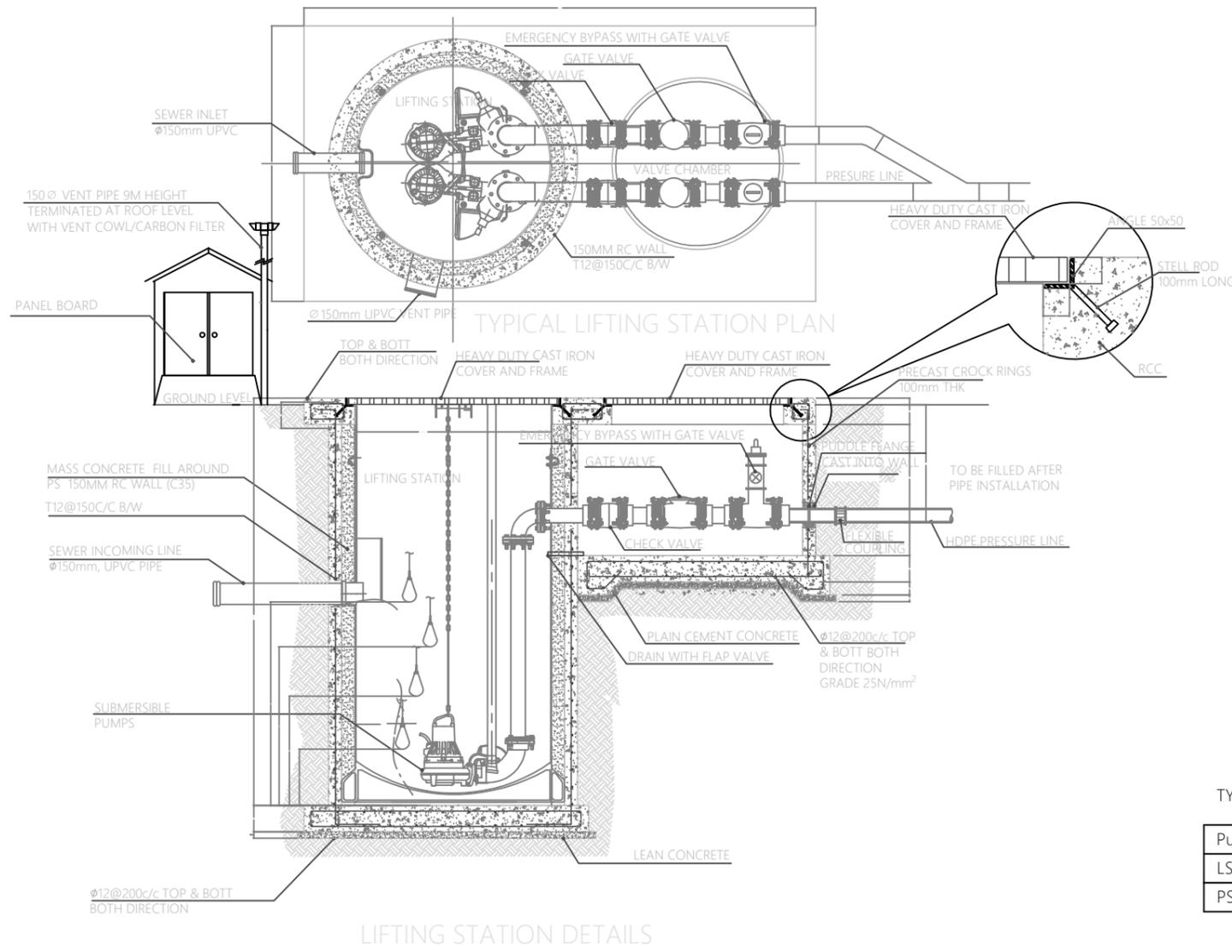
GROUND FLOOR PLAN
SCALE: 1:100

ARCH. DESIGN: -	PROJECT: WATER AND SANITATION	
STRUC. DESIGN: -	CONTENTS: TYPICAL DRAWINGS	
DRAWN BY: -	SCALE: -	
DATE: FEBRUARY 2019	DWG NO: TYP/W06	
CLIENT: -	FILE:	

NOTES:
-



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AMEENEE MAGU, MAAFANNU, MALE', 20392, REPUBLIC OF MALDIVES
TEL: +960 3004300, FAX: +960 3004301



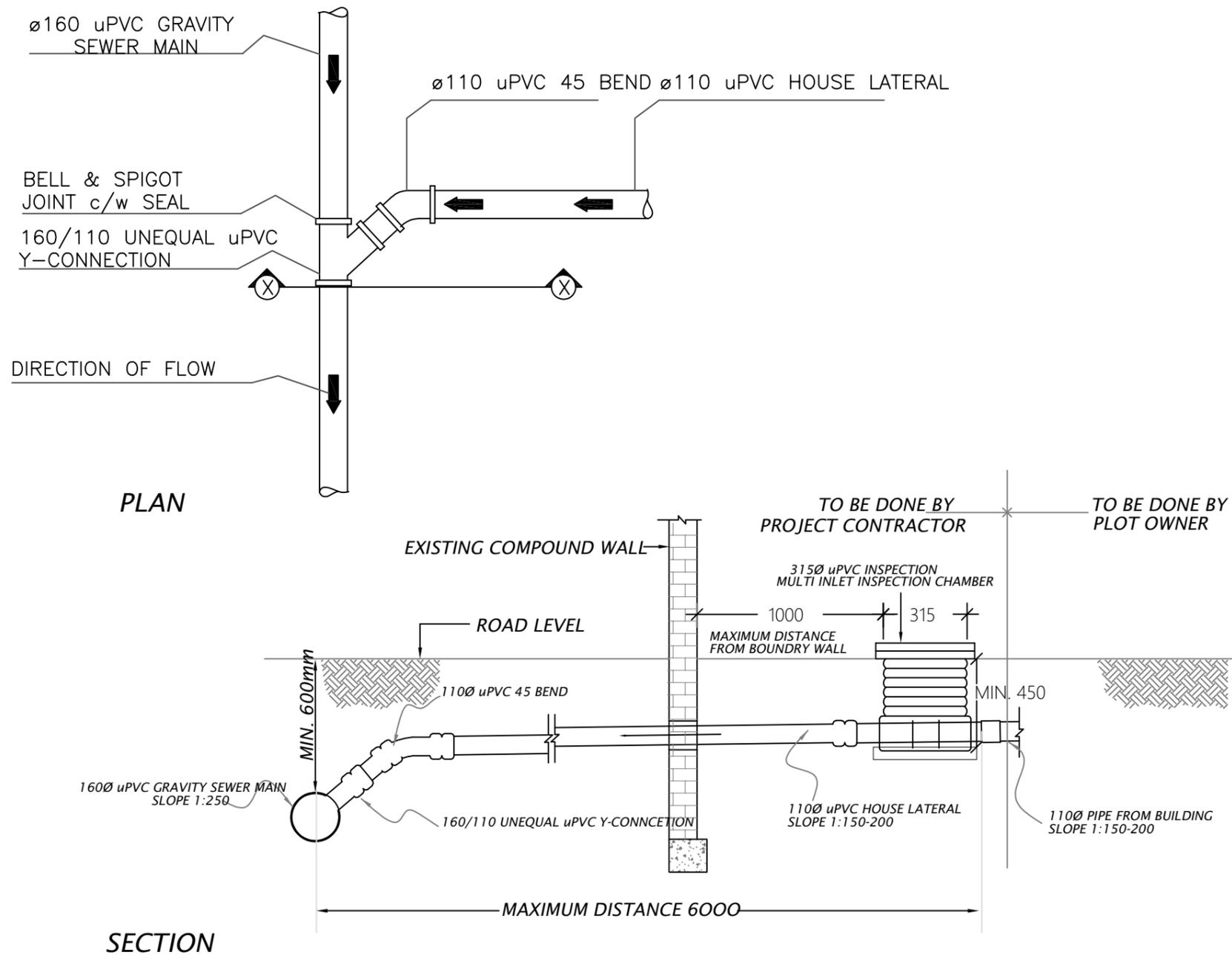
- LIST OF MAIN INSTRUMENTS OF PREFAB PUMPING STATION:
1. SEWAGE PUMPS (1 DUTY & 1 STANDBY)
 2. POWER CABLE
 3. AUTO-COUPLING WITH 40Ø SS GUIDE RAIL
 4. STAINLESS STEEL (316) SUSPENSION CHAIN
 5. CABLE WITH FLOAT CONTROL AND WEIGHT
 6. DISCHARGE PIPE
 7. PUDDLE FLANGE
 8. PE LINING
 9. BITUMEN EMULSION AND 500MICRON POLYTHENE SHEET PROTECTION TO EXTERNAL CONCRETE SURFACES
 10. CONSTRUCTION JOINT/WATER BARS
 11. MANHOLE COVER DOUBLE SEAL DUCTILE HEAVY DUTY CAST IRON/SS316 COVER
 12. 100Ø VENT PIPE WITH VENT COWL AT TOP OR CONNECTED TO NEAREST BUILDING VENT PIPE

NOTE:-
 -PUMPS, PIPE WORK, FITTINGS AND CONTROL PANEL SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 -POSITION OF CONTROL PANEL AND VENT PIPE TO SUIT LOCATION/NEAREST VILLA M&E ROOM.
 -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.

TYPICAL PUMP STATION DESIGN DETAILS

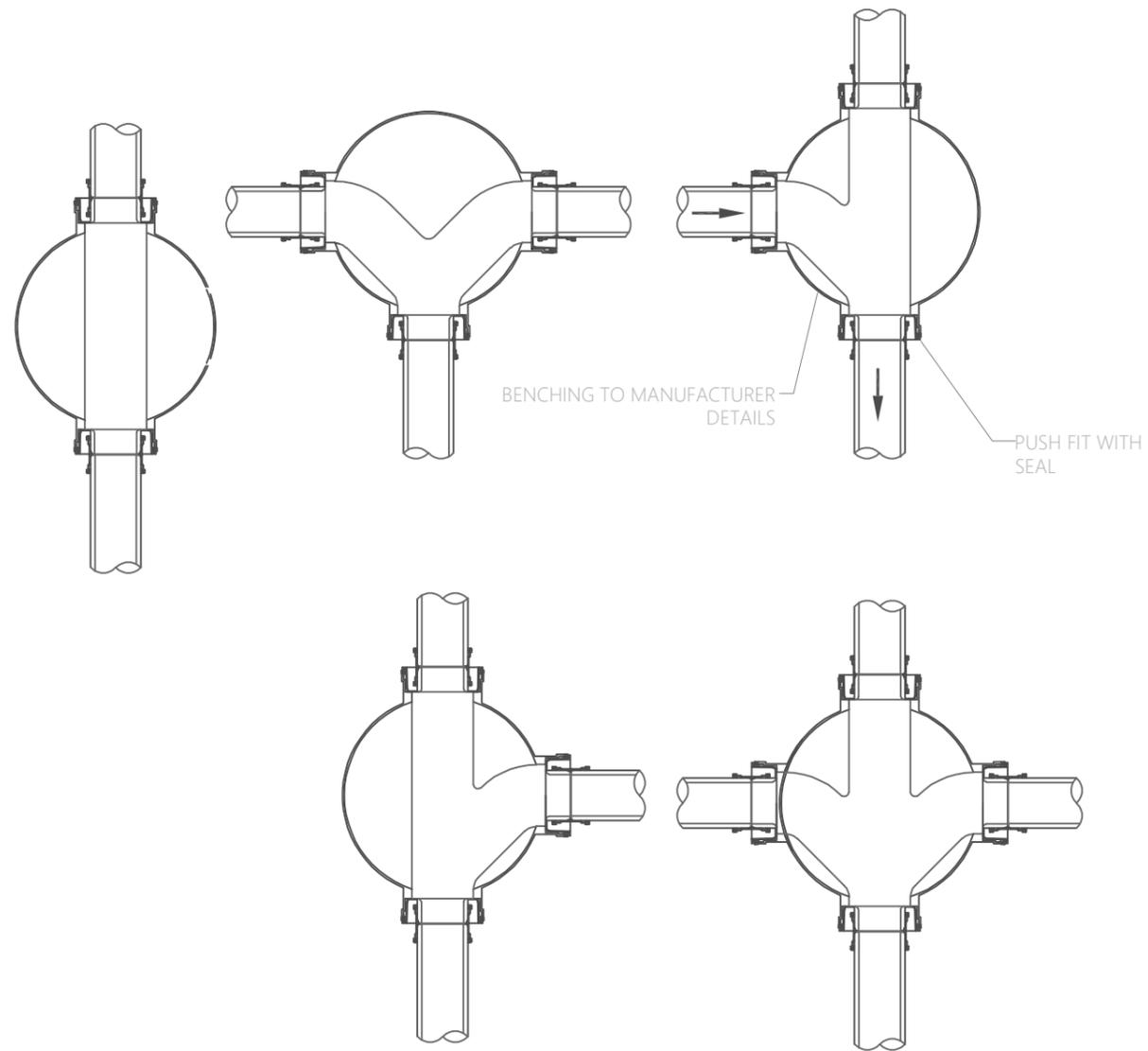
Pump	Diameter (DIA)	Depth (D)	Inlet depth	Pump Capacity	Head	(15 YEARS)			
						Levels			
						L1	L2	L3	L4
LS1	2.0m	3.55m	2.744m	XX l/s	X m	0.300m	0.423m	0.573m	0.723m
PS&O	2.2m	3.70m	2.637m	XX l/s	XX m	0.300m	0.560m	0.710m	0.860m

ARCH. DESIGN: -	PROJECT: WATER AND SANITATION		
STRUC. DESIGN: -	CONTENTS: TYPICAL DRAWINGS		
DRAWN BY: -	SCALE: -		
DATE: FEBRUARY 2019	FILE:		DWG NO: TYP/S01
CLIENT: -	 MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE AMEENEE MAGU, MAAFANNU, MALE', 20392, REPUBLIC OF MALDIVES TEL: +960 3004300, FAX: +960 3004301		
NOTES: -			



TYPICAL HOUSE CONNECTION DETAILS 01
NTS

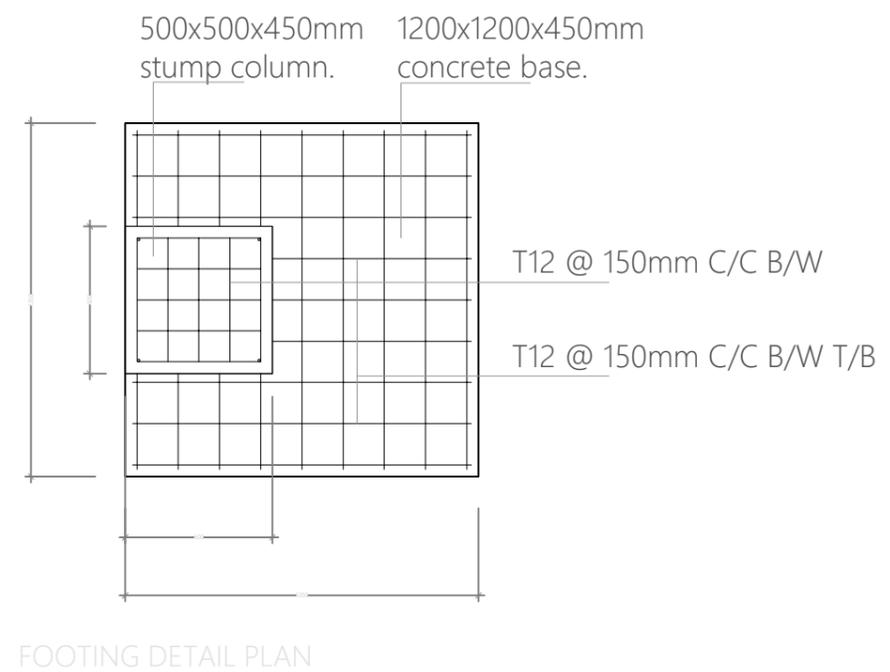
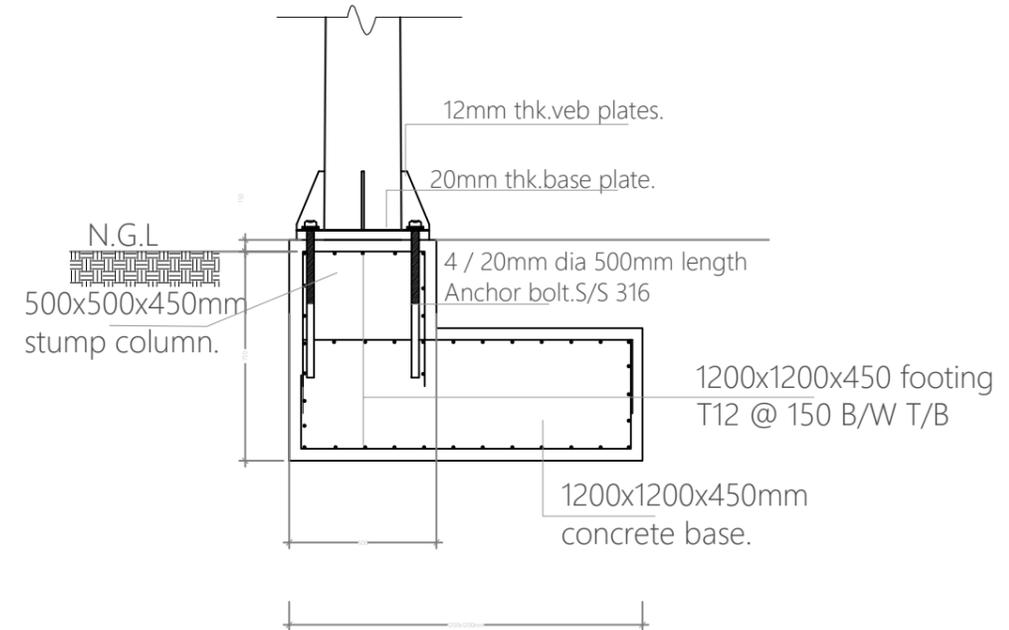
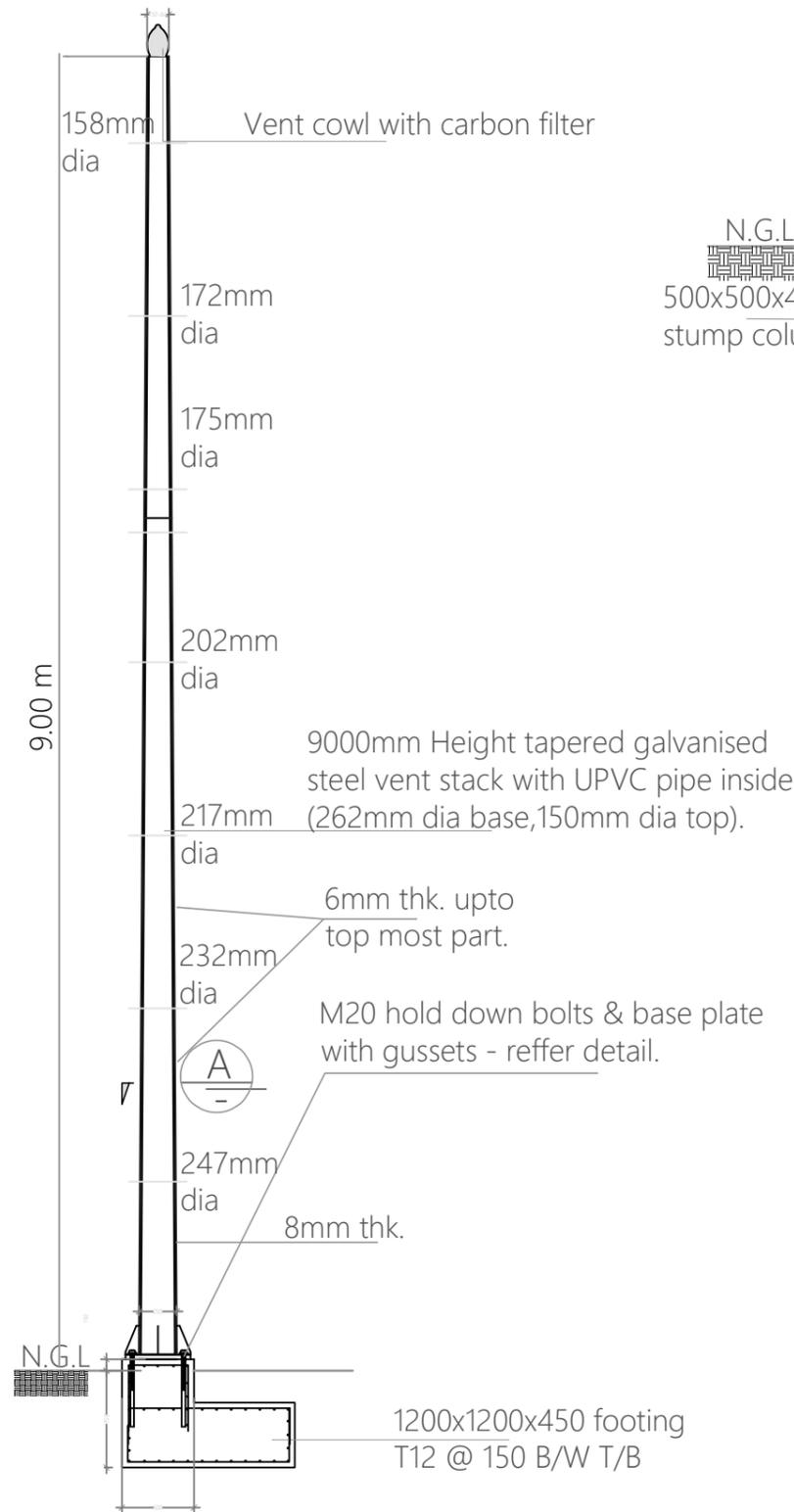
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STRUC. DESIGN: -	CONTENTS: TYPICAL DRAWINGS	
DRAWN BY: -	DATE: FEBRUARY 2019	
CLIENT: -	SCALE: -	DWG NO: TYP/S02
NOTES: -	FILE:	
		 MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE AMEENEE MAGU, MAAFANNU, MALE', 20392, REPUBLIC OF MALDIVES TEL: +960 3004300, FAX: +960 3004301



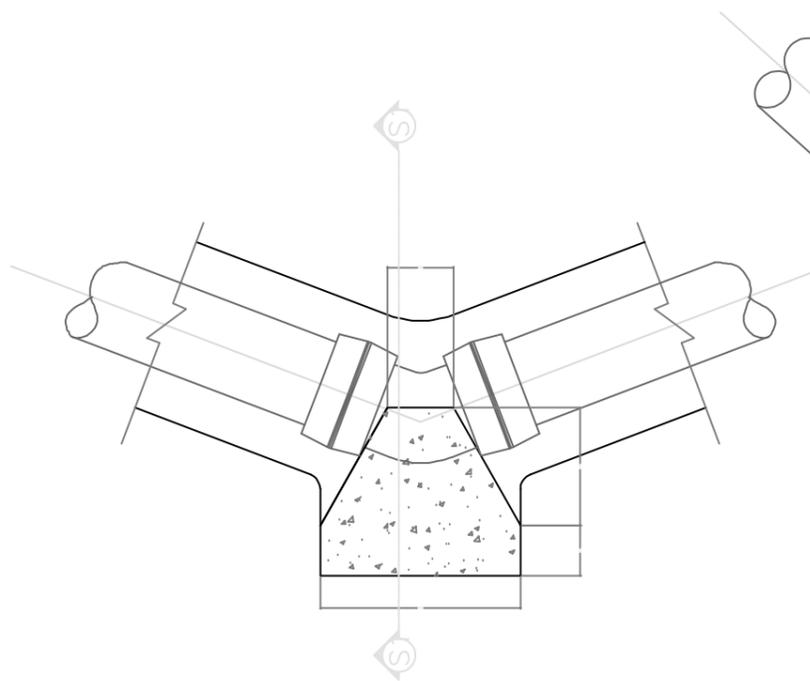
TYPICAL MOULDED PLASTIC MANHOLE BASE DETAILS

TYPICAL MANHOLE BASE DETAILS 02
NTS

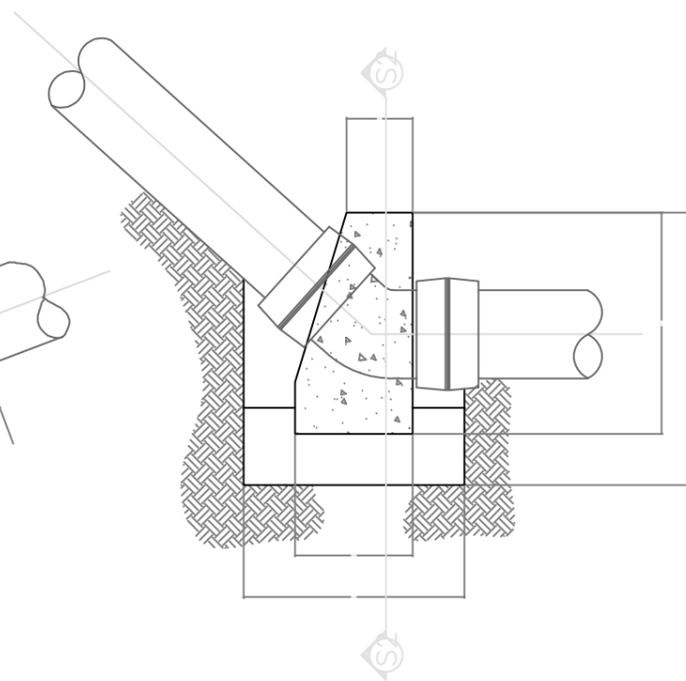
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STRUC. DESIGN: -	CONTENTS: TYPICAL DRAWINGS	
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DATE: FEBRUARY 2019	FILE:	DWG NO: TYP/S03
CLIENT: -	 MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE AMEENEE MAGU, MAAFANNU, MALE', 20392, REPUBLIC OF MALDIVES TEL: +960 3004300, FAX: +960 3004301	
NOTES: -		



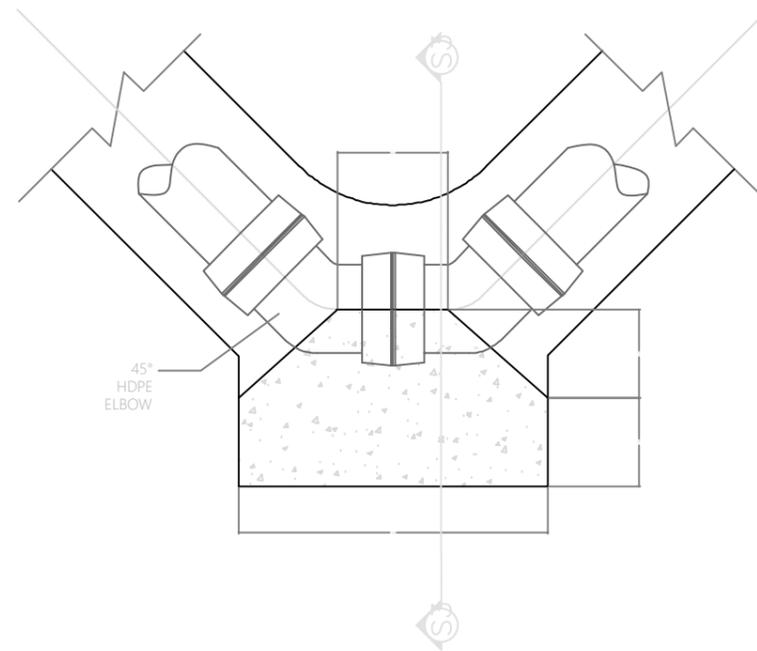
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STRUC. DESIGN: -	CONTENTS: TYPICAL DRAWINGS	
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DATE: FEBRUARY 2019	FILE:	DWG NO: TYP/S05
CLIENT: -	 MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE AMEENEE MAGU, MAAFANNU, MALE', 20392, REPUBLIC OF MALDIVES TEL: +960 3004300, FAX: +960 3004301	
NOTES: -		



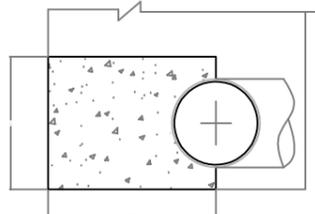
HORIZONTAL 45° BEND
NTS



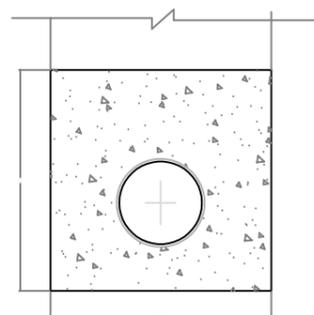
VERTICAL 45° BEND
NTS



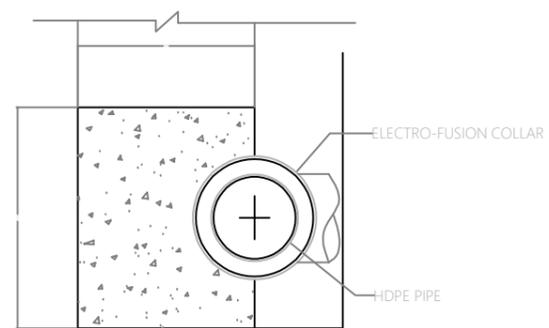
HORIZONTAL 90° BEND
NTS



SECTION S1-S1
NTS



SECTION S2-S2
NTS

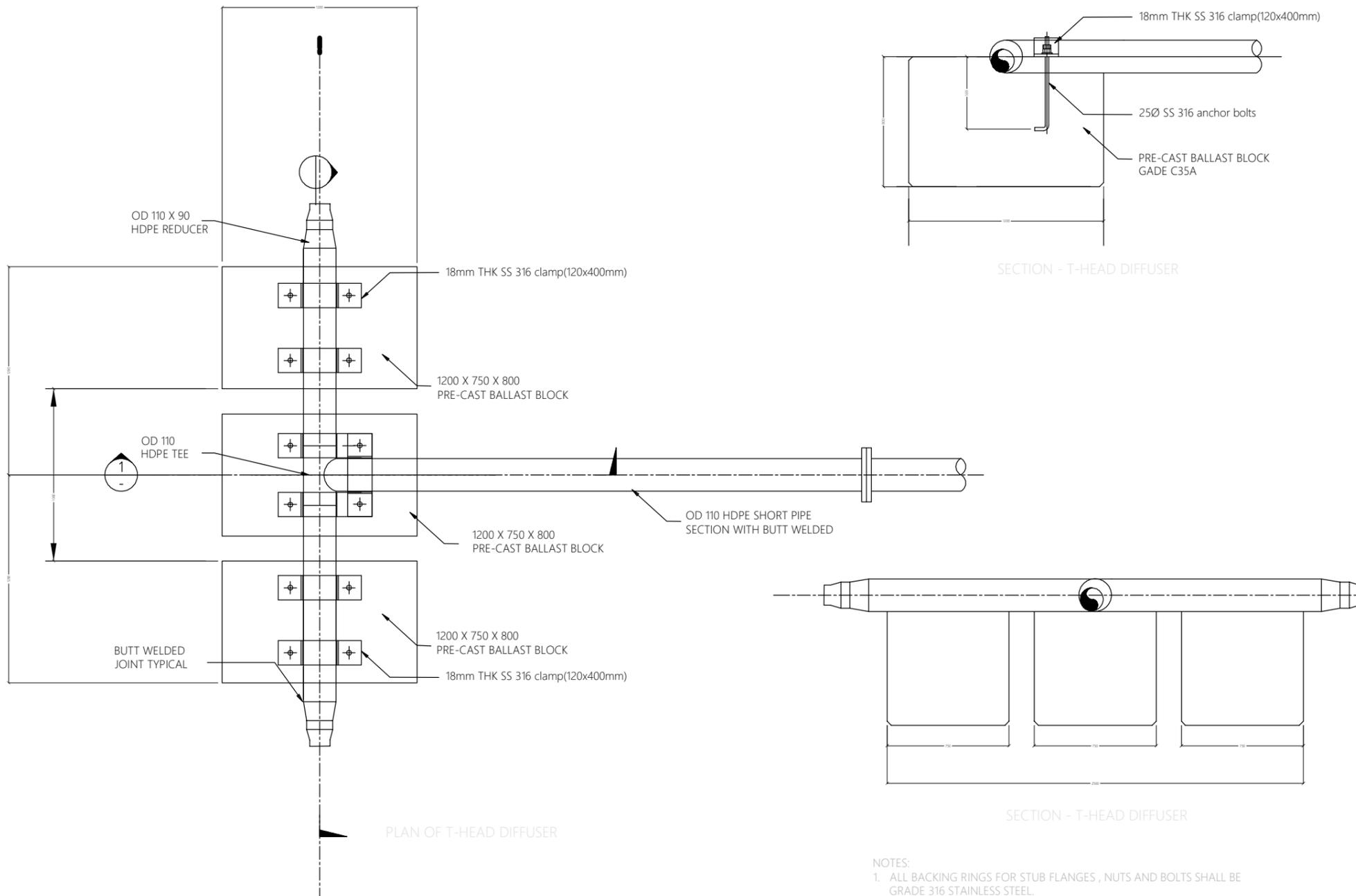


SECTION S3-S3
NTS

THRUST BLOCK DETAIL - FORCE MAINS ONLY
SCALE 1:20

THRUST BLOCK DETAILS
NTS

ARCH. DESIGN: -	PROJECT: WATER AND SANITATION	
STRUC. DESIGN: -	CONTENTS: TYPICAL DRAWINGS	
DRAWN BY: -	DATE: FEBRUARY 2019	
CLIENT: -	SCALE: -	DWG NO: TYP/S06
NOTES: -	FILE:	
		 MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE AMEENEE MAGU, MAAFANNU, MALE', 20392, REPUBLIC OF MALDIVES TEL: +960 3004300, FAX: +960 3004301



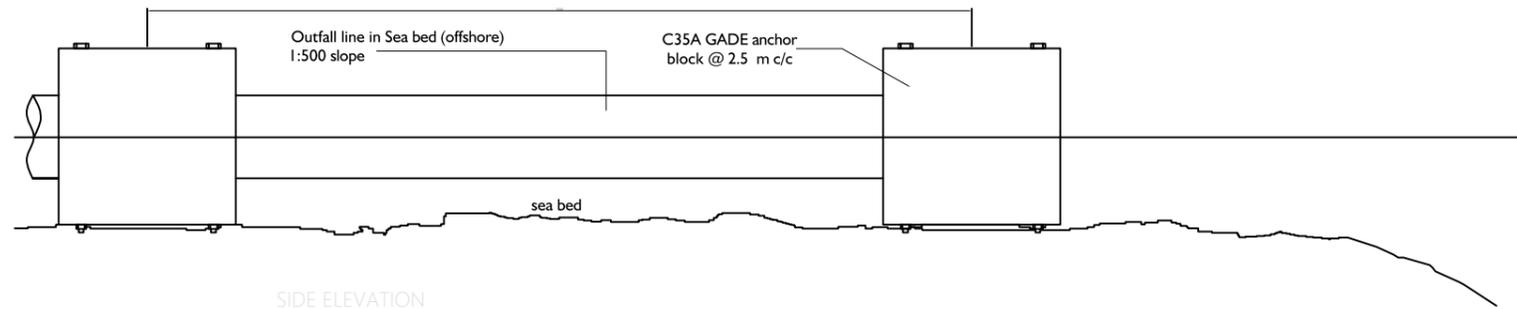
T-HEAD DIFFUSER DETAILS
NTS

NOTES:

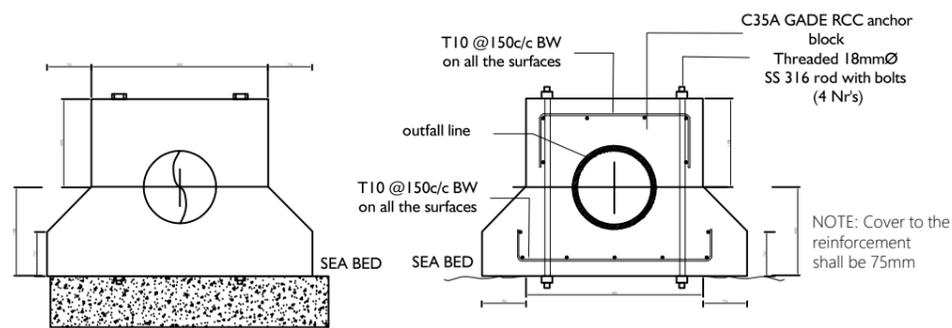
1. ALL BACKING RINGS FOR STUB FLANGES, NUTS AND BOLTS SHALL BE GRADE 316 STAINLESS STEEL.
2. ALL PIPE WORK SHALL BE BEDDED ON 10MM THICK NEOPRENE RUBBER SEAT IN SEMICIRCULAR RECESS MATCHING THE O.D. THE PIPE.
3. FABRICATE SPECIFIC PIPE CLAMPS TO PROVIDE FIRM CLAMPING ACTION ACCORDING TO PIPE O.D.
4. ALL STRUCTURAL CONCRETE SHALL BE OF GRADE C35A.
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.

ARCH. DESIGN: -	PROJECT: WATER AND SANITATION	
STRUC. DESIGN: -	CONTENTS: TYPICAL DRAWINGS	
DRAWN BY: -	DATE: FEBRUARY 2019	
CLIENT: -	SCALE: -	DWG NO: TYP/S07
NOTES: -	FILE:	
		 MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE AMEENEE MAGU, MAAFANNU, MALE', 20392, REPUBLIC OF MALDIVES TEL: +960 3004300, FAX: +960 3004301

SEA OUTFALL LINE & ANCHORING DETAILS

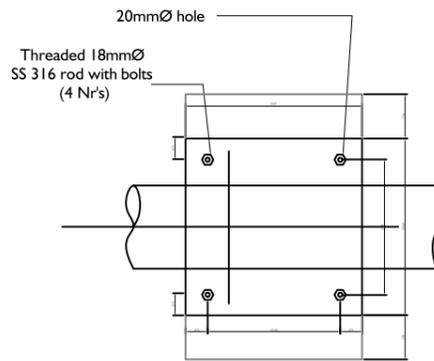


SIDE ELEVATION



FRONT ELEVATION

SECTION ELEVATION



PLAN

NOTES:

1. ALL BACKING RINGS FOR STUB FLANGES, NUTS AND BOLTS SHALL BE GRADE 316 STAINLESS STEEL.
2. ALL PIPE WORK SHALL BE BEDDED ON 10MM THICK NEOPRENE RUBBER SEAT IN SEMICIRCULAR RECESS MATCHING THE O.D. THE PIPE.
3. ALL STRUCTURAL CONCRETE SHALL BE OF GRADE C35A.
4. ALL CASTINGS SHALL BE DONE USING SULPHATE RESISTANT PORTLAND CEMENT TO BS 4027:1996.
5. ALL STRUCTURAL REINFORCEMENT SHALL BE EPOXY COATING OF NON-PRE-STRESSED REINFORCEMENT TO ASTM-A775/A775M.

BALLAST BLOCK DETAIL
NTS

ARCH. DESIGN: -	PROJECT: WATER AND SANITATION	
STRUC. DESIGN: -	CONTENTS: TYPICAL DRAWINGS	
DRAWN BY: -	DATE: FEBRUARY 2019	
CLIENT: -	SCALE: -	DWG NO: TYP/S08
NOTES: -	FILE:	
		 MINISTRY OF NATIONAL PLANNING & INFRASTRUCTURE AMEENEE MAGU, MAAFANNU, MALE', 20392, REPUBLIC OF MALDIVES TEL: +960 3004300, FAX: +960 3004301