



MINISTRY OF ENVIRONMENT AND ENERGY
REPUBLIC OF MALDIVES

DETAILED DESIGN DRAWINGS FOR S.MARADHOO, S.MARADHOO-FEYDHOO & S.FEYDHOO

PACKAGE: 2

Project:

Consultancy Services for the Design of Sewerage Facilities in
S.Feydhoo, S.Maradhoo, S.Maradhoo Feydhoo,
S.Hulhudhoo and Hulhumeedhoo.

Volume: 3 of 3

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LIST OF DRAWINGS

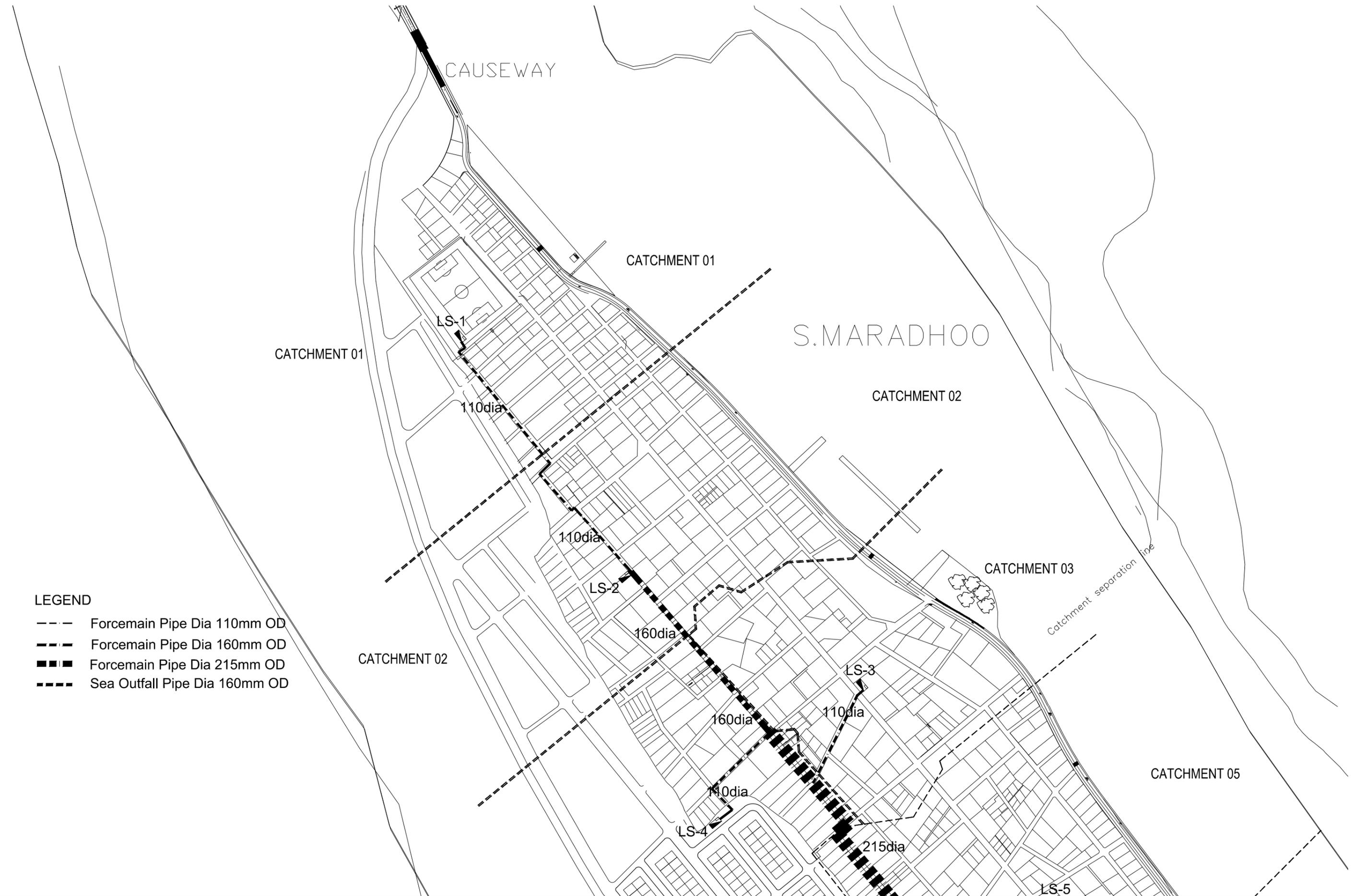
DWG. NOS	DRAWING TITLES
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LIST OF DRAWINGS

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Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alilikigeaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meecco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MF-SW-LIST
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
								Date:	28.Mar.2016	LIST
			Scale:	As given						

SEWERAGE DRAWINGS



LEGEND

- Forcemain Pipe Dia 110mm OD
- - - Forcemain Pipe Dia 160mm OD
- ■ ■ Forcemain Pipe Dia 215mm OD
- - - Sea Outfall Pipe Dia 160mm OD

Employer:
MINISTRY OF ENVIRONMENT AND ENERGY
 REPUBLIC OF MALDIVES

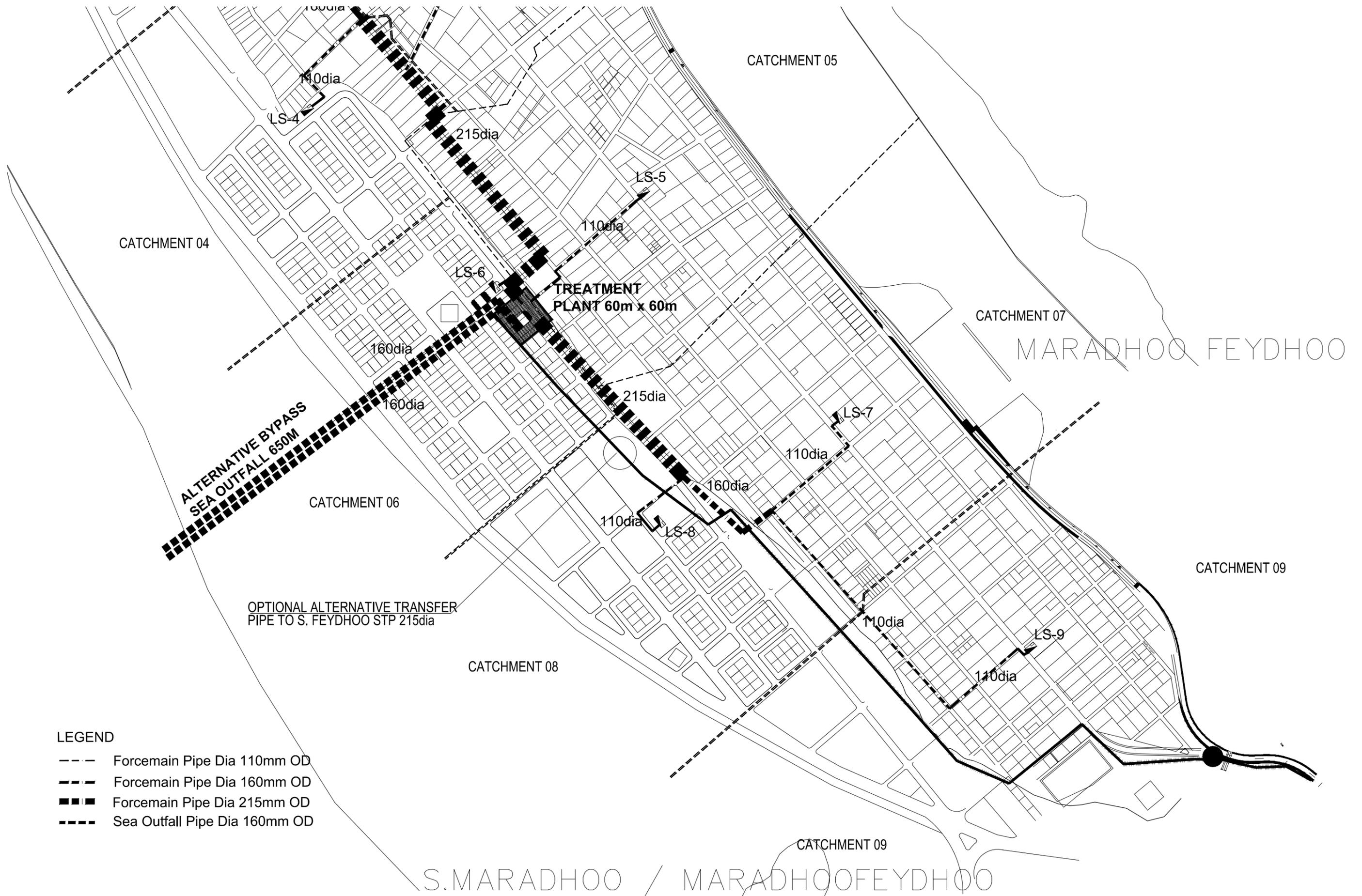
Engineer
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Project:
**DESIGN CONSULTANCY FOR ADDU
 ATOL 5 ISLANDS
 SEWERAGE WORKS 2015**
 ISLAND:
**MARADHOO, MARADHOO
 FEYDHOO & FEYDHOO**

Drawing Title:
 AS GIVEN

Legends:

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			Structural Design by:	Hassan Nihad	
			Checked by:	Hussain Shaheed	Sheet No.
			Date:	28.Mar.2016	
			Scale:	As given	



LEGEND

- Forcemain Pipe Dia 110mm OD
- Forcemain Pipe Dia 160mm OD
- ■ ■ Forcemain Pipe Dia 215mm OD
- Sea Outfall Pipe Dia 160mm OD

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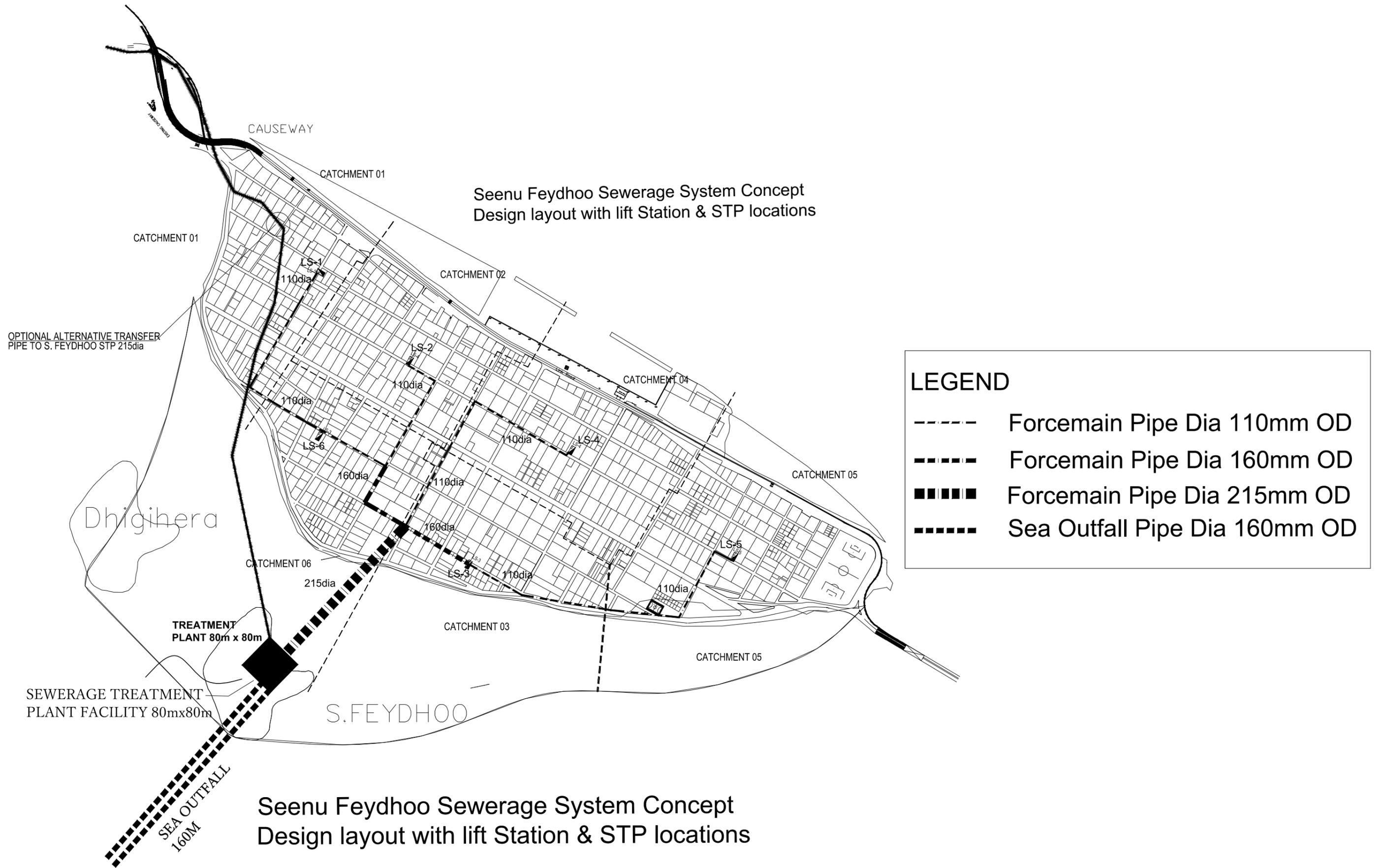
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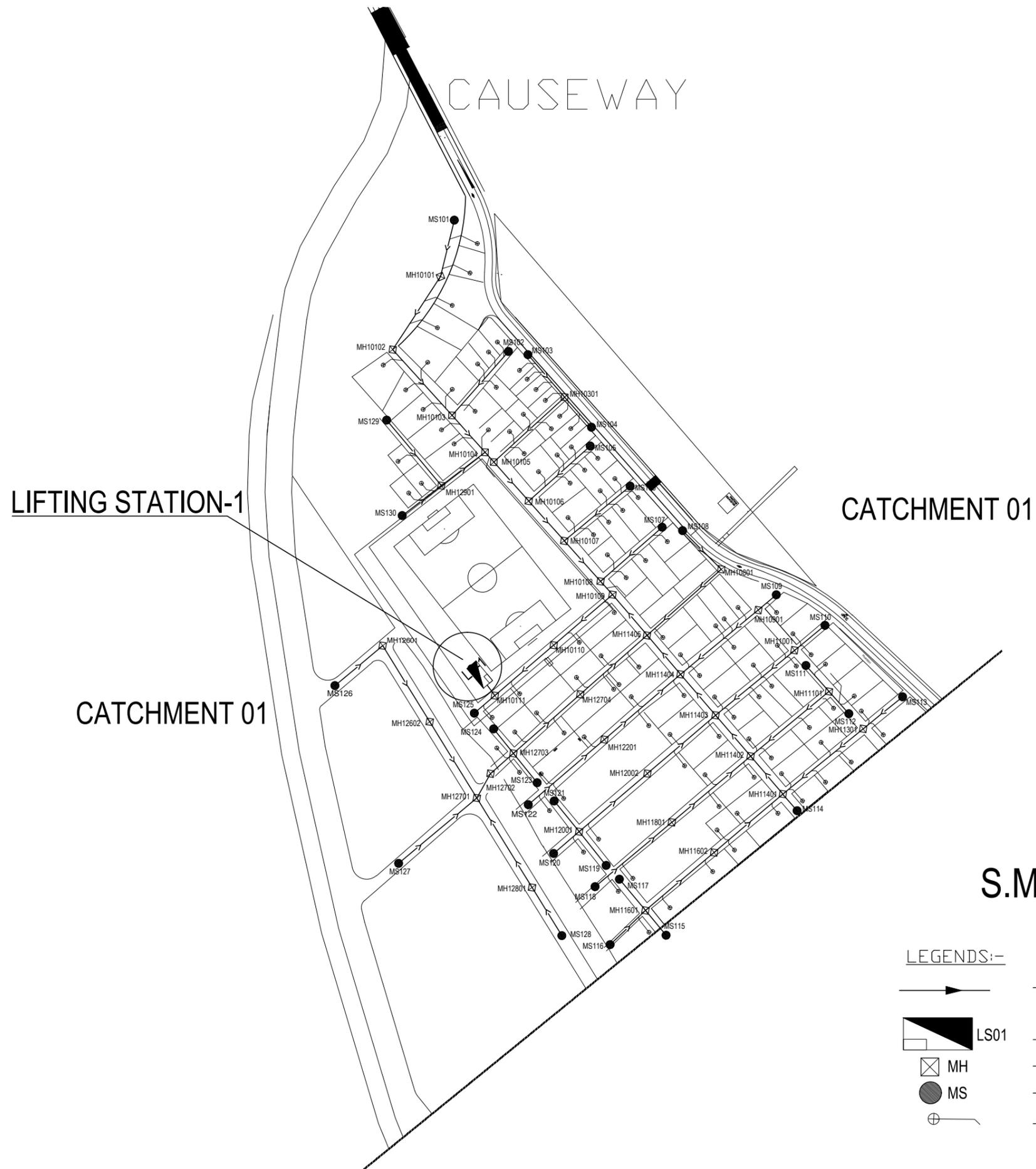
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MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	 2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	AS GIVEN					Hydraulic Designed by:	Hussain Shaheed	MF-SW-100.2
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
								Date:	28.Mar.2016	
								Scale:	As given	



LEGENDS:-

- Ø160mm SEWERAGE LINE
- LS01 - LIFTING STATION
- MH - MANHOLE
- MS - MAINTANANCE SHAFT
- HOUSE CONNECTION Ø110mm

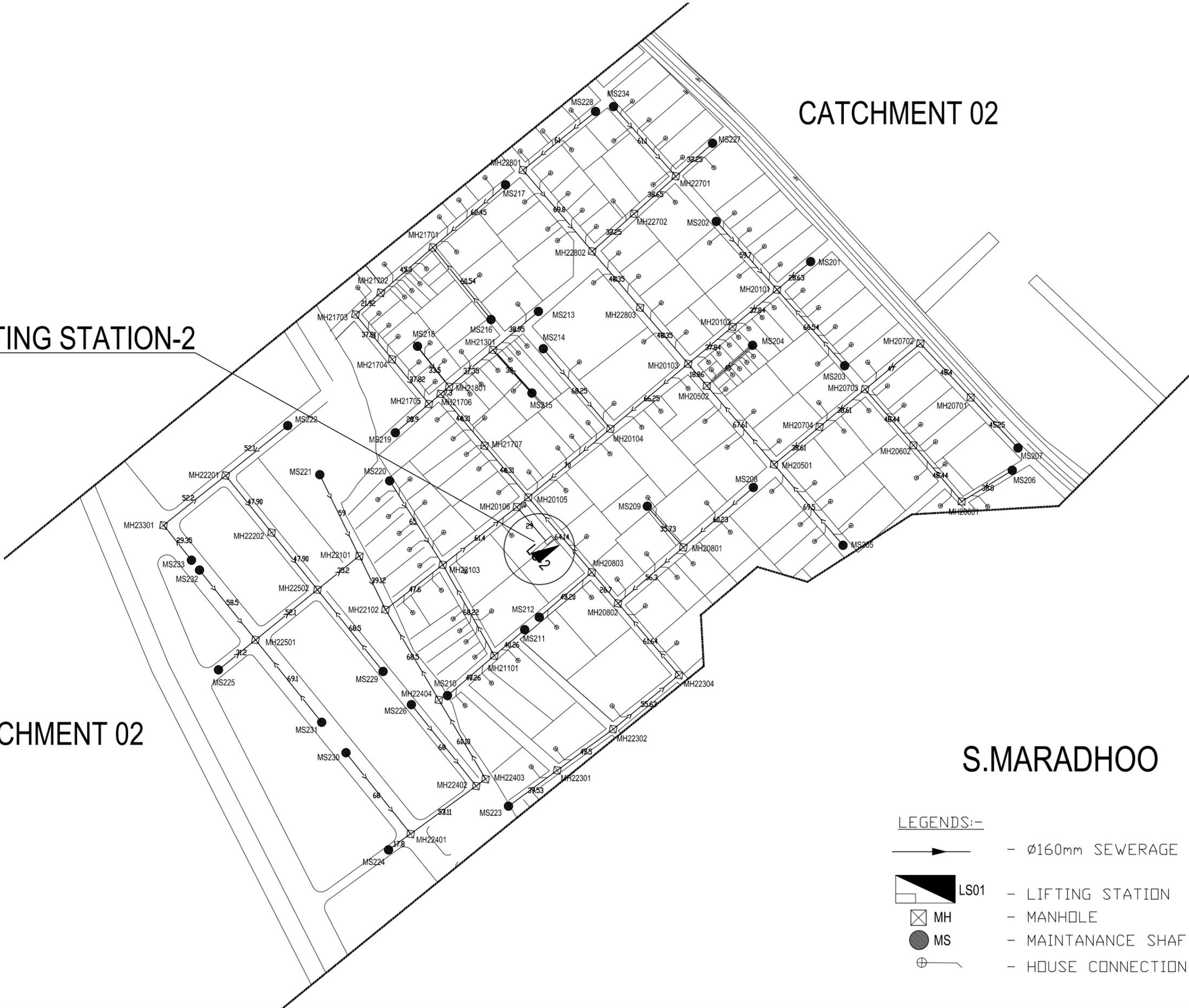
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Scale:	As given																														

CATCHMENT 02

LIFTING STATION-2

CATCHMENT 02

S.MARADHOO



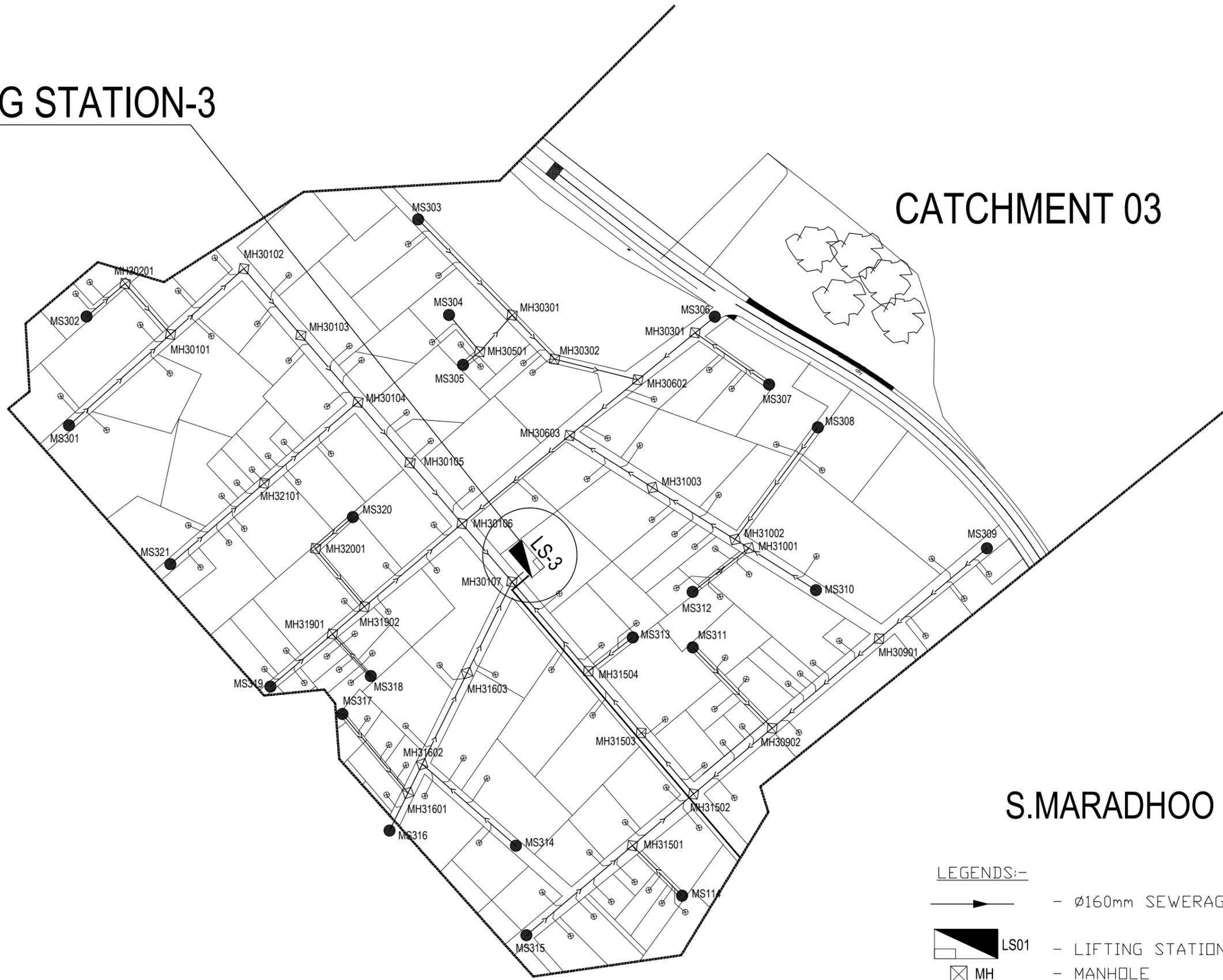
LEGENDS:-

-  - Ø160mm SEWERAGE LINE
-  LS01 - LIFTING STATION
-  MH - MANHOLE
-  MS - MAINTANANCE SHAFT
-  - HOUSE CONNECTION Ø110mm

<p>Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES</p>	<p>Engineer MEECO 2nd Floor, Aakakaage-1, Galolhu, Alilikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meco.com.mv</p>	<p>Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO</p>	<p>Drawing Title: AS GIVEN</p>	<p>Legends:</p>	<table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>Notes by Engineer:</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Rev	Date	Notes by Engineer:										<table border="1"> <tr> <td>Drawn by:</td> <td>Ahmed A.Saththaaaru</td> <td>Drawing No.</td> </tr> <tr> <td>Hydraulic Designed by:</td> <td>Hussain Shaheed</td> <td>MF-SW-101.1</td> </tr> <tr> <td>Structural Design by:</td> <td>Hassan Nihad</td> <td> </td> </tr> <tr> <td>Checked by:</td> <td>Hussain Shaheed</td> <td>Sheet No.</td> </tr> <tr> <td>Date:</td> <td>28.Mar.2016</td> <td> </td> </tr> <tr> <td>Scale:</td> <td>As given</td> <td> </td> </tr> </table>	Drawn by:	Ahmed A.Saththaaaru	Drawing No.	Hydraulic Designed by:	Hussain Shaheed	MF-SW-101.1	Structural Design by:	Hassan Nihad		Checked by:	Hussain Shaheed	Sheet No.	Date:	28.Mar.2016		Scale:	As given	
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LIFTING STATION-3

CATCHMENT 03



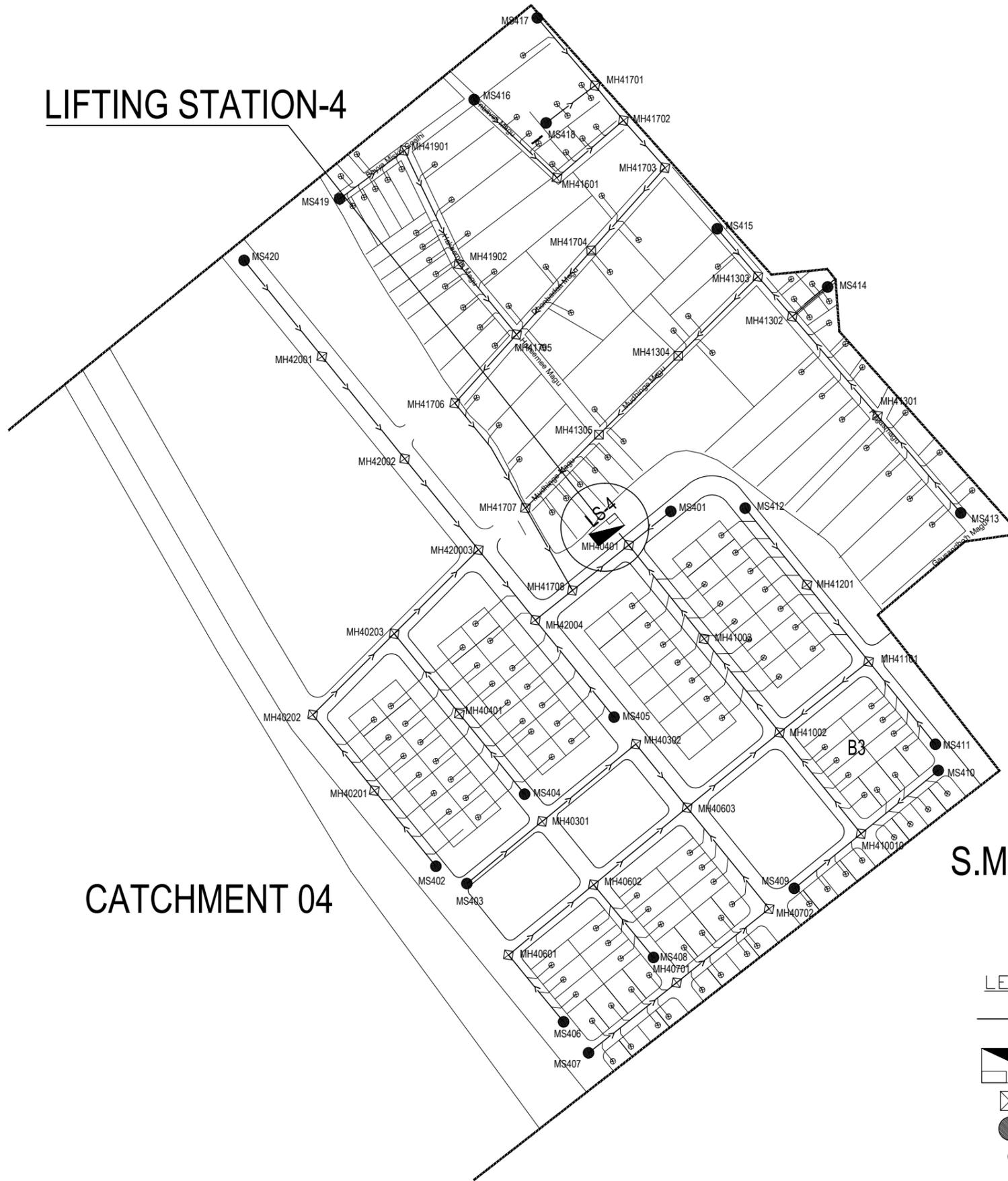
S.MARADHOO

LEGENDS:-

-  - Ø160mm SEWERAGE LINE
-  LS01 - LIFTING STATION
-  MH - MANHOLE
-  MS - MAINTANANCE SHAFT
-  - HOUSE CONNECTION Ø110mm

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			Scale:	As given						

LIFTING STATION-4



CATCHMENT 04

S.MARADHOO

LEGENDS:-

-  - Ø160mm SEWERAGE LINE
-  LS01 - LIFTING STATION
-  - MANHOLE
-  MS - MAINTANANCE SHAFT
-  - HOUSE CONNECTION Ø110mm

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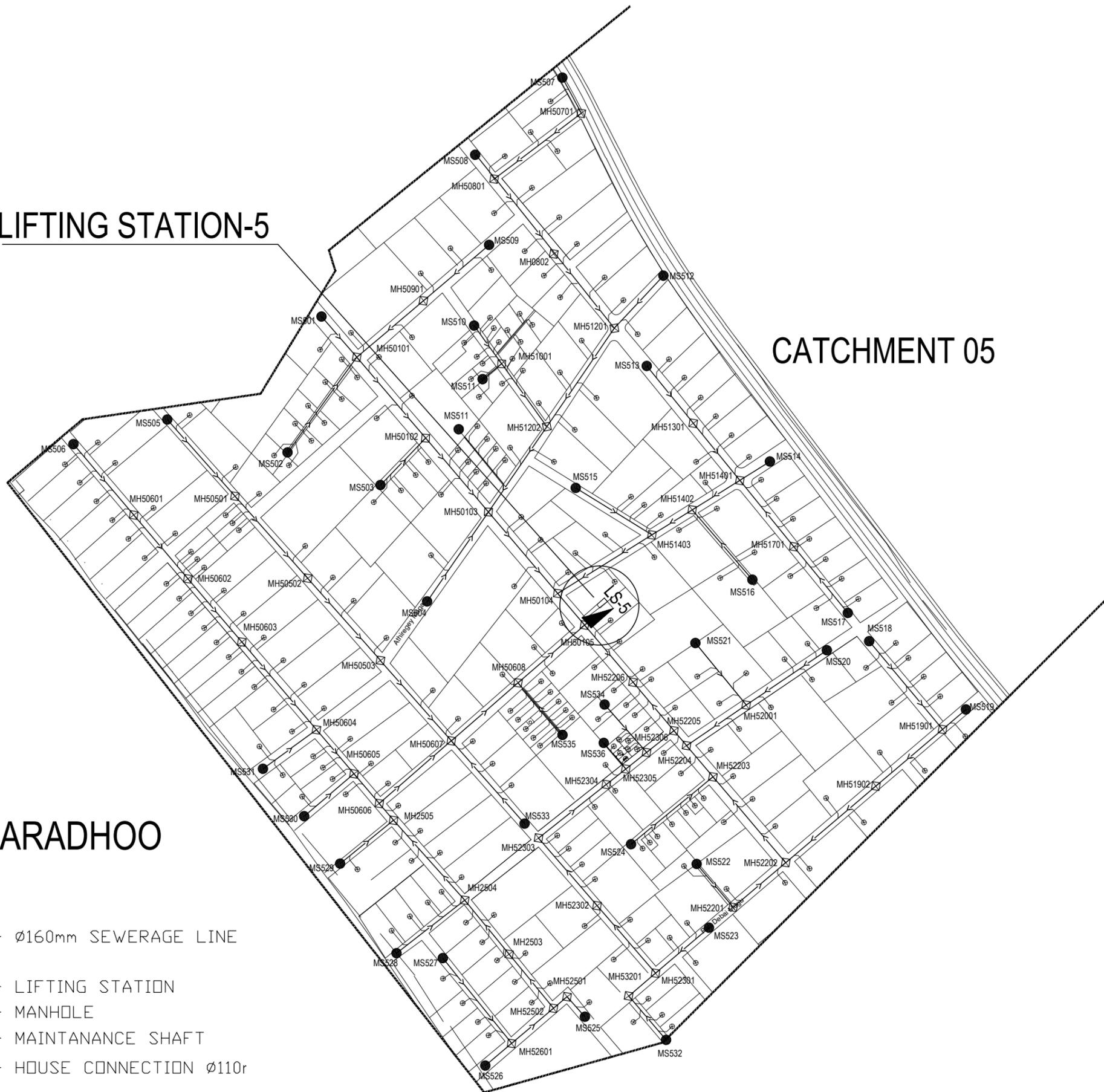
LIFTING STATION-5

CATCHMENT 05

S.MARADHOO

LEGENDS:-

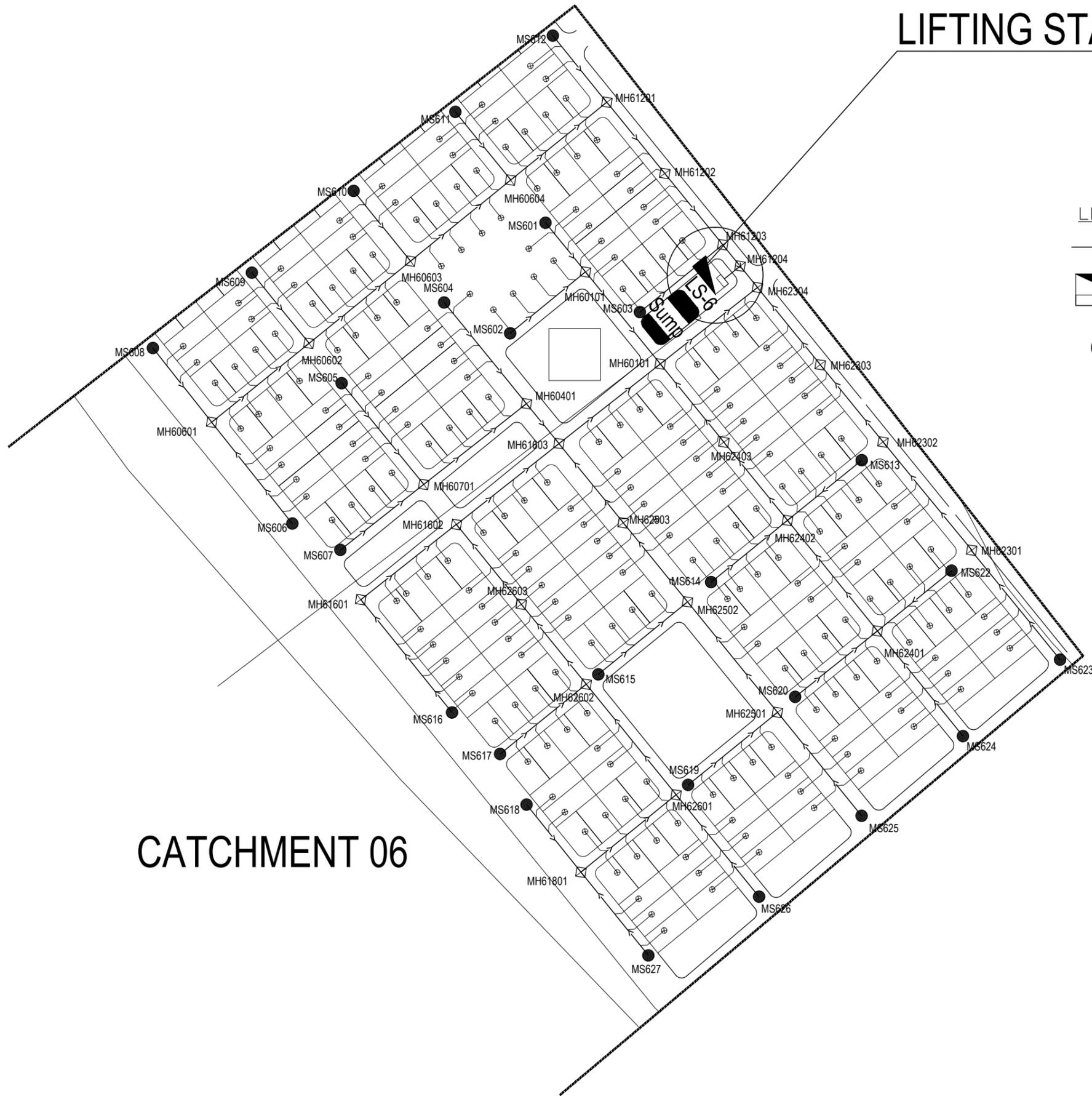
-  - Ø160mm SEWERAGE LINE
-  LS01 - LIFTING STATION
-  MH - MANHOLE
-  MS - MAINTANANCE SHAFT
-  - HOUSE CONNECTION Ø110r



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					Date:	28.Mar.2016				
					Scale:	As given				

LIFTING STATION-6

S.MARADHOO



LEGENDS:-

-  - ϕ 160mm SEWERAGE LINE
-  LS01 - LIFTING STATION
-  MH - MANHOLE
-  MS - MAINTANANCE SHAFT
-  - HOUSE CONNECTION ϕ 110mm

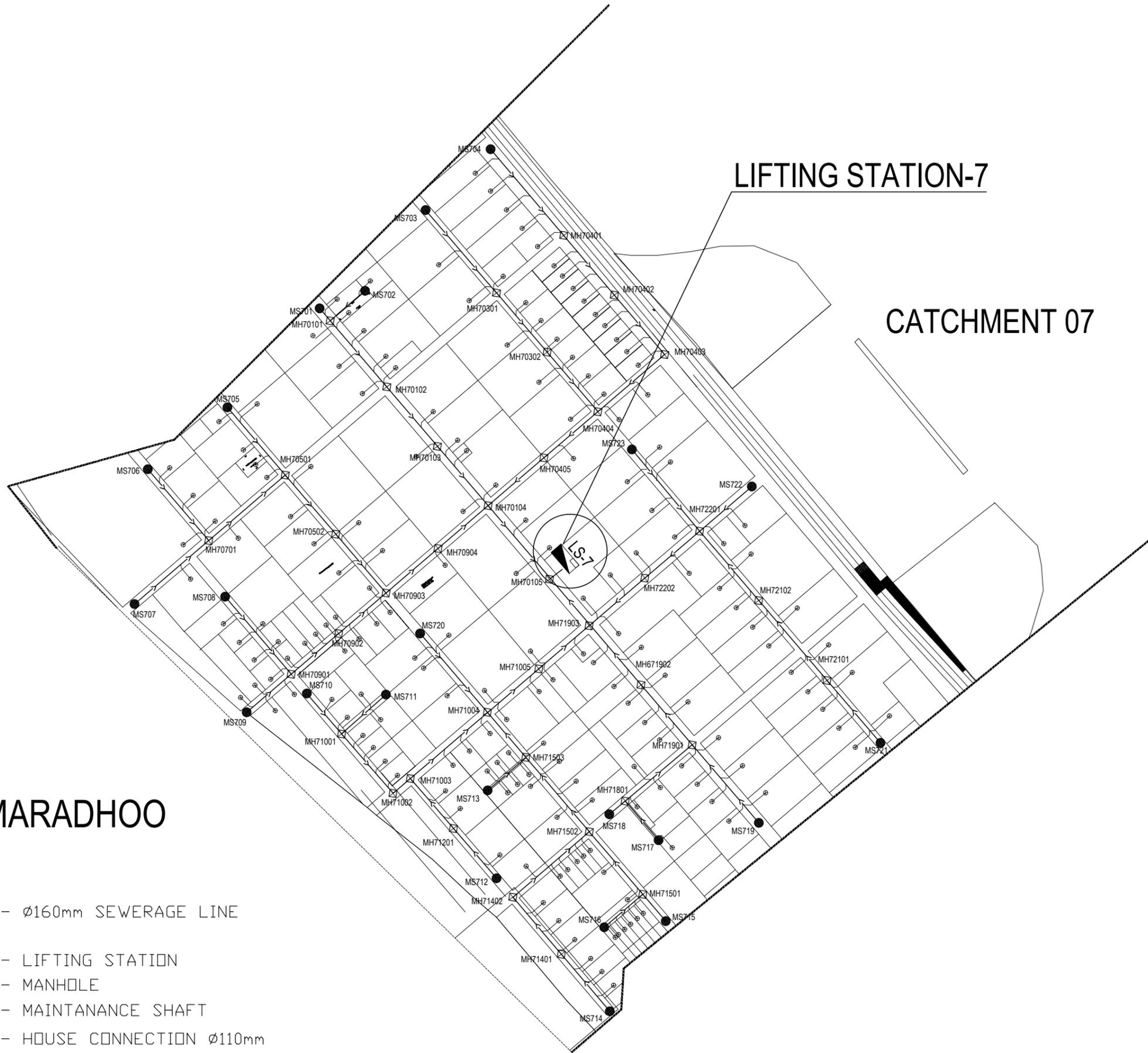
CATCHMENT 06

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S.MARADHOO

LIFTING STATION-7

CATCHMENT 07

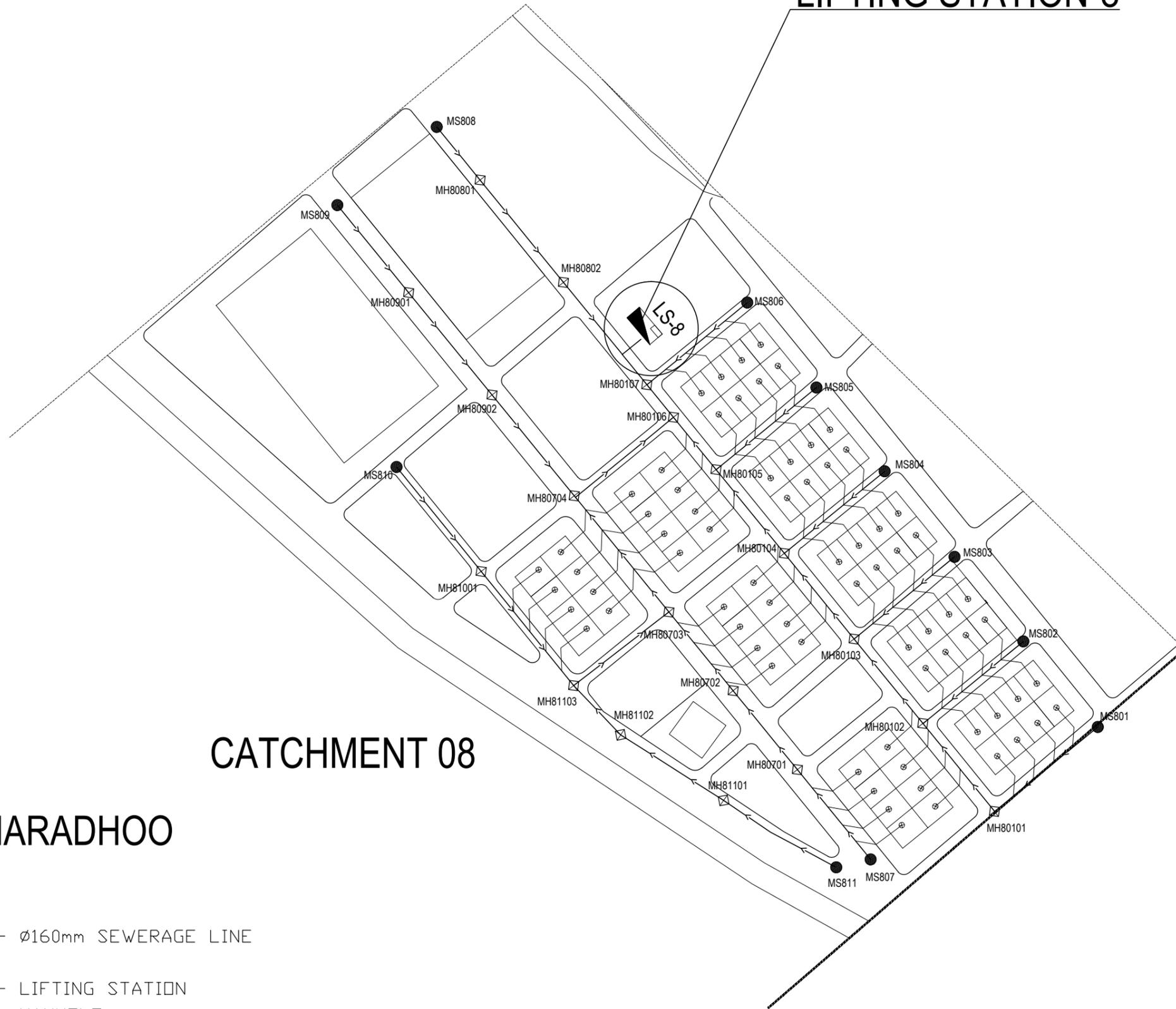


LEGENDS:-

-  - Ø160mm SEWERAGE LINE
-  LS01 - LIFTING STATION
-  MH - MANHOLE
-  MS - MAINTANANCE SHAFT
-  - HOUSE CONNECTION Ø110mm

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LIFTING STATION-8



CATCHMENT 08

S.MARADHOO

LEGENDS:-

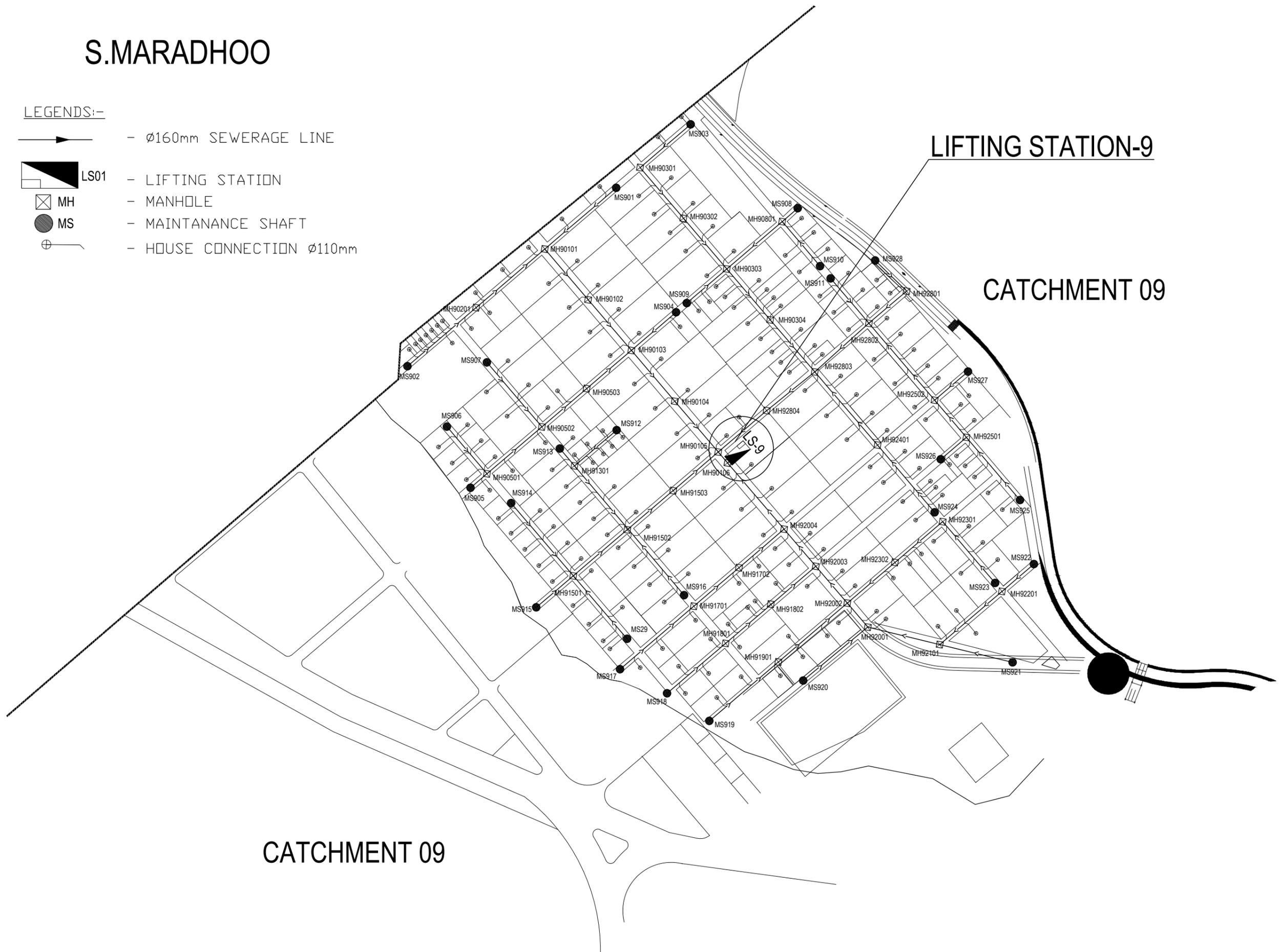
-  - Ø160mm SEWERAGE LINE
-  LS01 - LIFTING STATION
-  MH - MANHOLE
-  MS - MAINTANANCE SHAFT
-  - HOUSE CONNECTION Ø110mm

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							Scale:	As given		

S.MARADHOO

LEGENDS:-

-  - Ø160mm SEWERAGE LINE
-  LS01 - LIFTING STATION
-  MH - MANHOLE
-  MS - MAINTANANCE SHAFT
-  - HOUSE CONNECTION Ø110mm

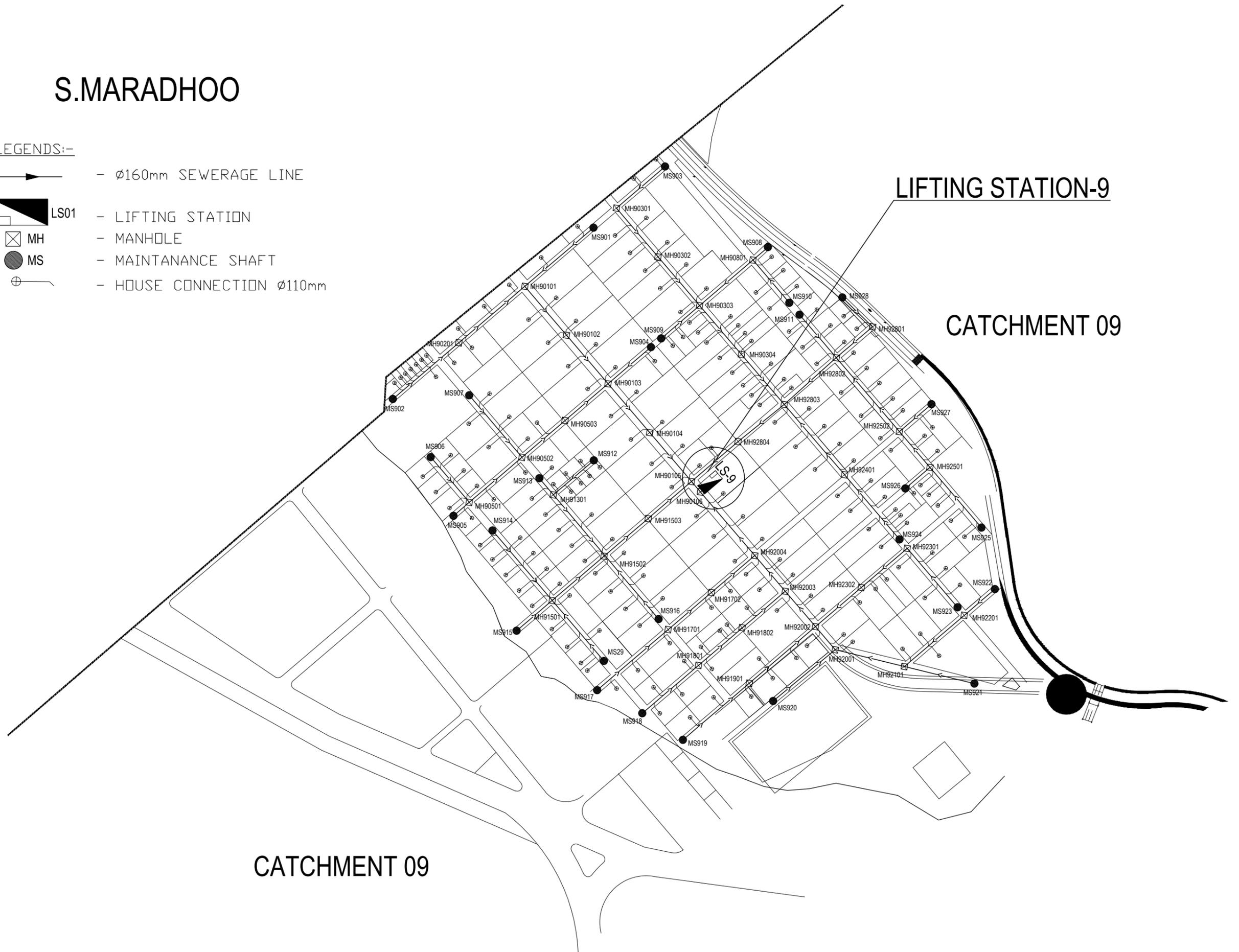


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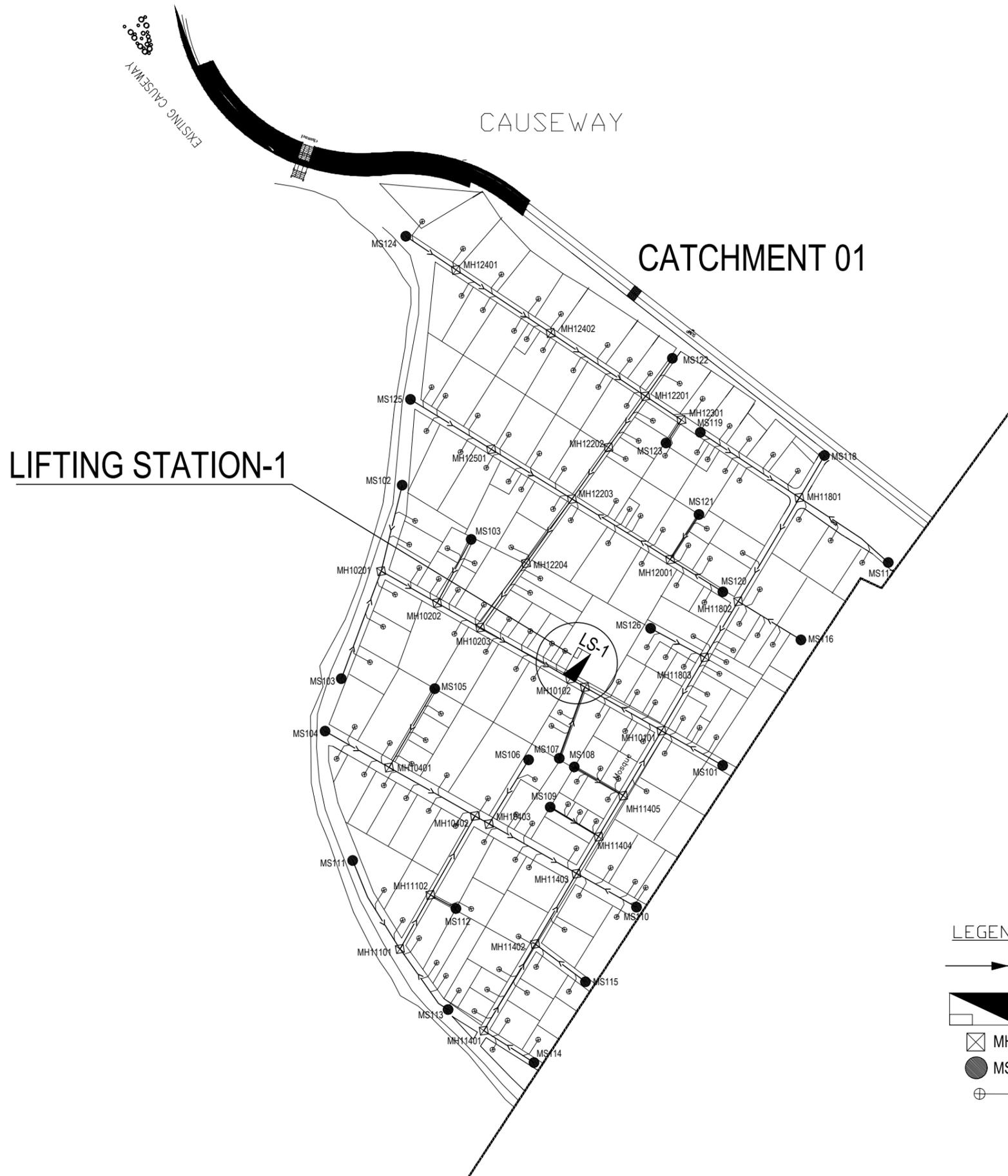
LEGENDS:-

-  - \varnothing 160mm SEWERAGE LINE
-  LS01 - LIFTING STATION
-  MH - MANHOLE
-  MS - MAINTANANCE SHAFT
-  - HOUSE CONNECTION \varnothing 110mm



CATCHMENT 09

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	<table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>Notes by Engineer:</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Rev	Date	Notes by Engineer:										<table border="1"> <tr> <td>Drawn by:</td> <td>Ahmed A.Saththaru</td> </tr> <tr> <td>Hydraulic Designed by:</td> <td>Hussain Shaheed</td> </tr> <tr> <td>Structural Design by:</td> <td>Hassan Nihad</td> </tr> <tr> <td>Checked by:</td> <td>Hussain Shaheed</td> </tr> <tr> <td>Date:</td> <td>28.Mar.2016</td> </tr> <tr> <td>Scale:</td> <td>As given</td> </tr> </table>	Drawn by:	Ahmed A.Saththaru	Hydraulic Designed by:	Hussain Shaheed	Structural Design by:	Hassan Nihad	Checked by:	Hussain Shaheed	Date:	28.Mar.2016	Scale:	As given	Drawing No. MF-SW-101.9 Sheet No.
Rev	Date	Notes by Engineer:																													
Drawn by:	Ahmed A.Saththaru																														
Hydraulic Designed by:	Hussain Shaheed																														
Structural Design by:	Hassan Nihad																														
Checked by:	Hussain Shaheed																														
Date:	28.Mar.2016																														
Scale:	As given																														



S.FEYDHOO

LEGENDS:-

-  - Ø160mm SEWERAGE LINE
-  LS01 - LIFTING STATION
-  MH - MANHOLE
-  MS - MAINTENANCE SHAFT
-  - HOUSE CONNECTION Ø110mm

Employer:
MINISTRY OF ENVIRONMENT AND ENERGY
 REPUBLIC OF MALDIVES

Engineer

 2nd Floor, Aakakaage-1, Galolhu, Alilikigeaanu Magu
 Malé, 20129
 Republic of Maldives
 (+960) 301-0855, (+960) 301-0844
 info@meeco.com.mv

Project:
DESIGN CONSULTANCY FOR ADDU
ATOL 5 ISLANDS
SEWERAGE WORKS 2015
ISLAND:
MARADHOO, MARADHOO
FEYDHOO & FEYDHOO

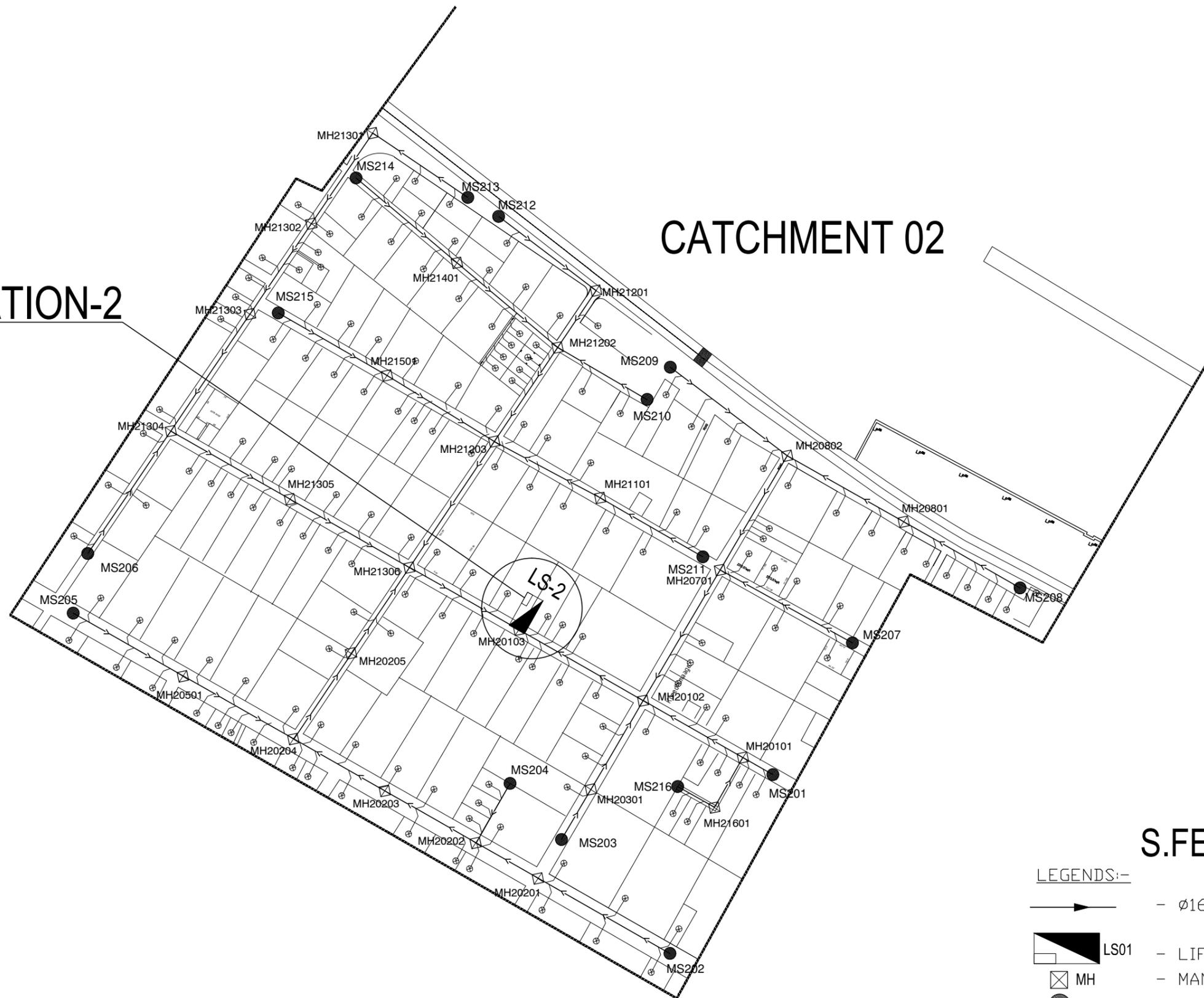
Drawing Title:
 AS GIVEN

Legends:

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			Structural Design by:	Hassan Nihad	
			Checked by:	Hussain Shaheed	Sheet No.
			Date:	28.Mar.2016	
			Scale:	As given	

LIFTING STATION-2

CATCHMENT 02



S.FEYDHOO

LEGENDS:-

-  - \varnothing 160mm SEWERAGE LINE
-  LS01 - LIFTING STATION
-  MH - MANHOLE
-  MS - MAINTENANCE SHAFT
-  - HOUSE CONNECTION \varnothing 110mm

Employer:
MINISTRY OF ENVIRONMENT AND ENERGY
REPUBLIC OF MALDIVES

Engineer
MEECO
2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu
Malé, 20129
Republic of Maldives
(+960) 301-0855, (+960) 301-0844
info@meco.com.mv

Project:
DESIGN CONSULTANCY FOR ADDU
ATOL 5 ISLANDS
SEWERAGE WORKS 2015
ISLAND:
MARADHOO, MARADHOO
FEYDHOO & FEYDHOO

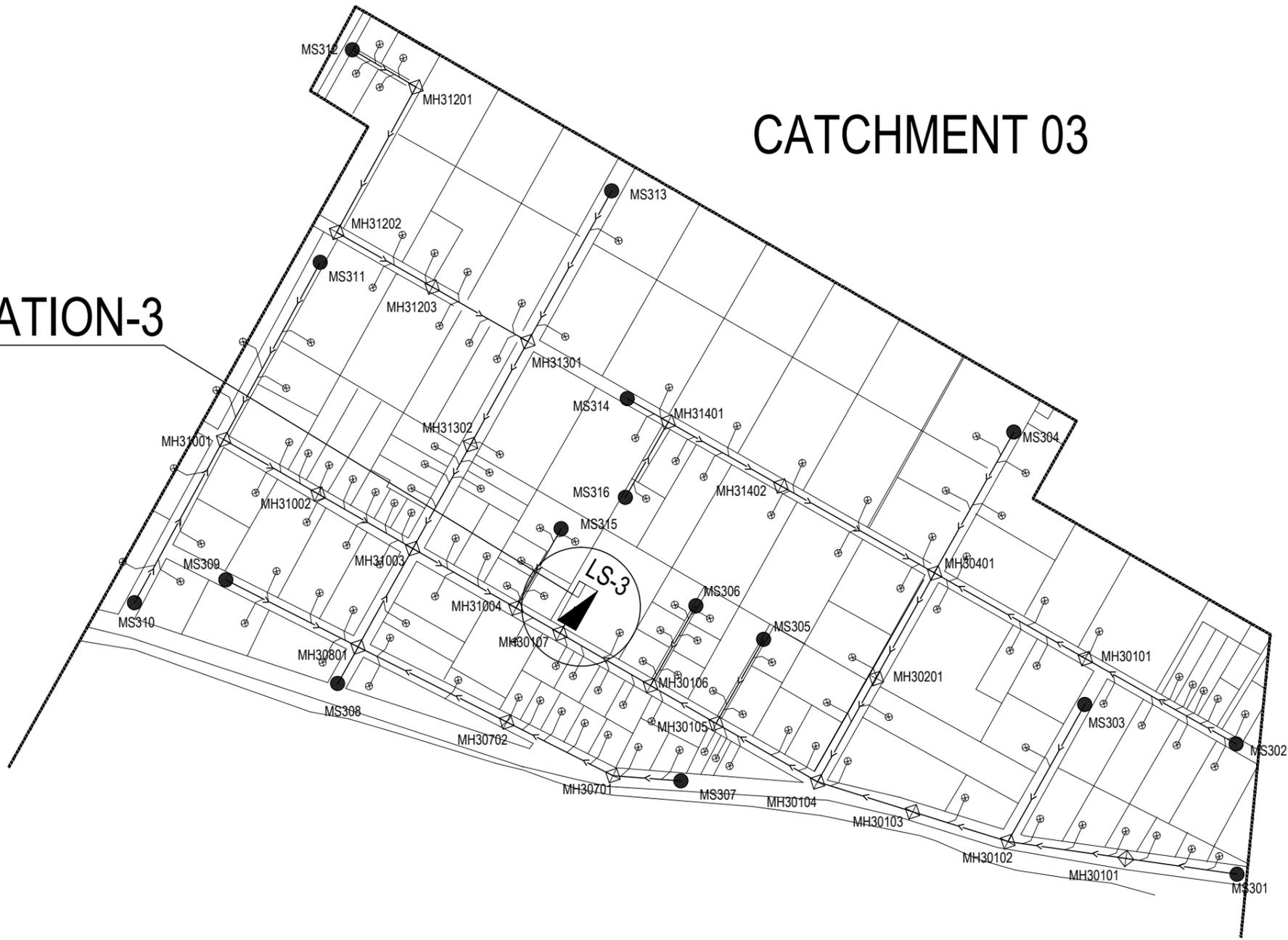
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AS GIVEN

Legends:

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			Structural Design by:	Hassan Nihad	
			Checked by:	Hussain Shaheed	Sheet No.
			Date:	28.Mar.2016	
			Scale:	As given	

CATCHMENT 03

G STATION-3



S.FEYDHOO

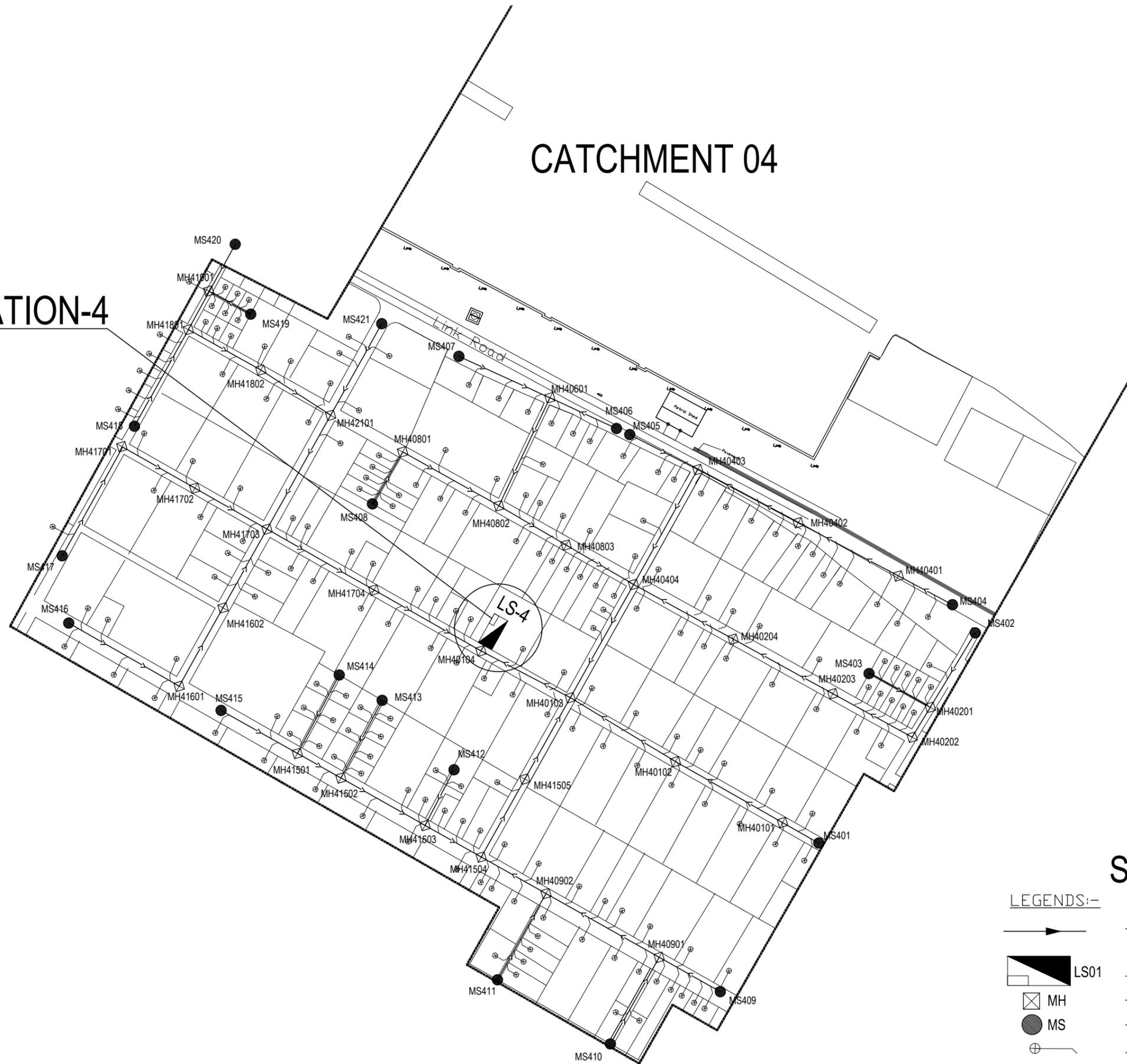
LEGENDS:-

-  - Ø160mm SEWERAGE LINE
-  LS01 - LIFTING STATION
-  MH - MANHOLE
-  MS - MAINTENANCE SHAFT
-  - HOUSE CONNECTION Ø110mm

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MF-SW-101.12
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
					Date:	28.Mar.2016				
					Scale:	As given				

CATCHMENT 04

IFTING STATION-4



S.FEYDHOO

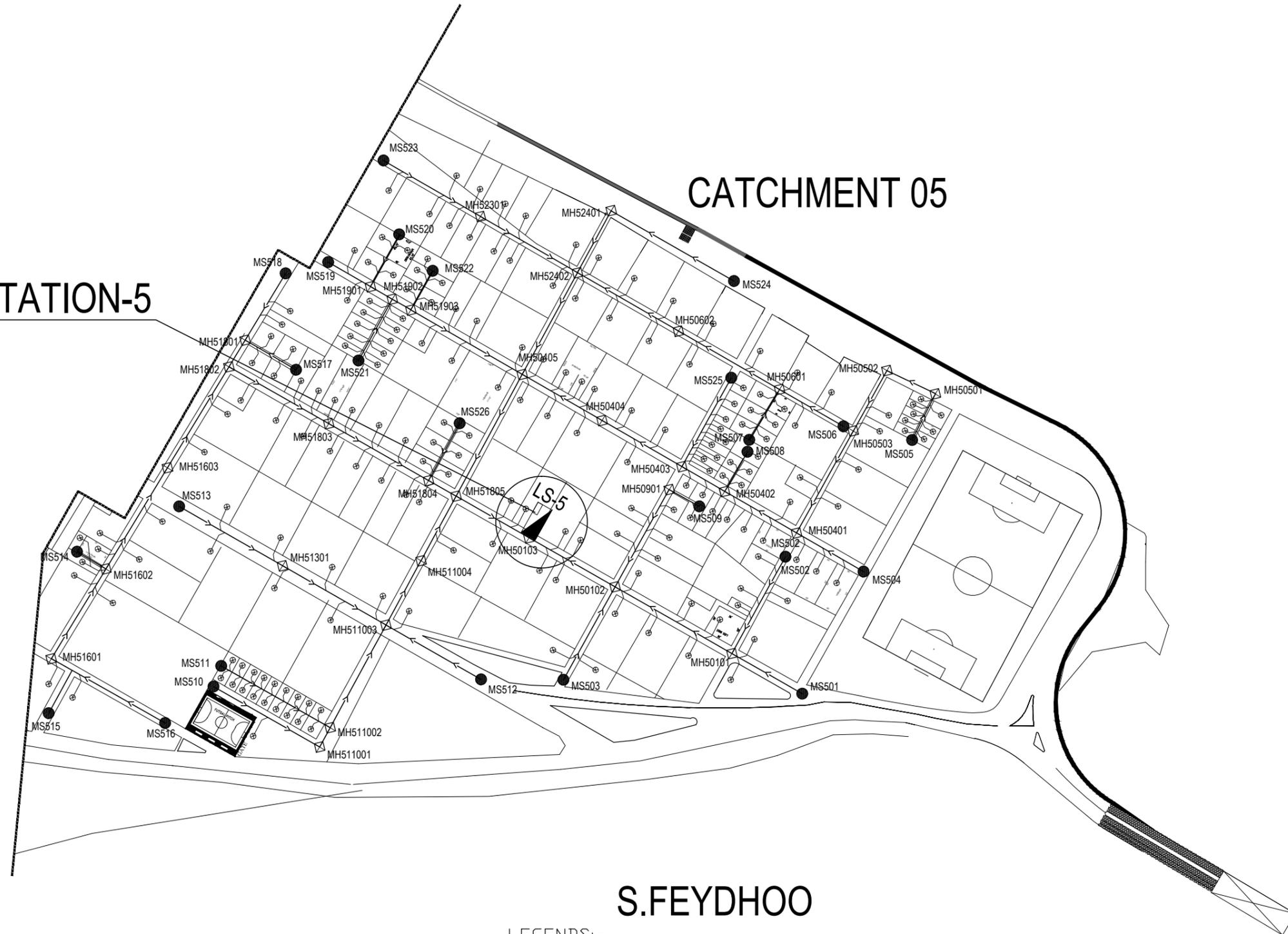
LEGENDS:-

-  - Ø160mm SEWERAGE LINE
-  LS01 - LIFTING STATION
-  MH - MANHOLE
-  MS - MAINTENANCE SHAFT
-  - HOUSE CONNECTION Ø110mm

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
								Hydraulic Designed by:	Hussain Shaheed	MF-SW-101.13
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
					Date:	28.Mar.2016				
					Scale:	As given				

LIFTING STATION-5

CATCHMENT 05



S.FEYDHOO

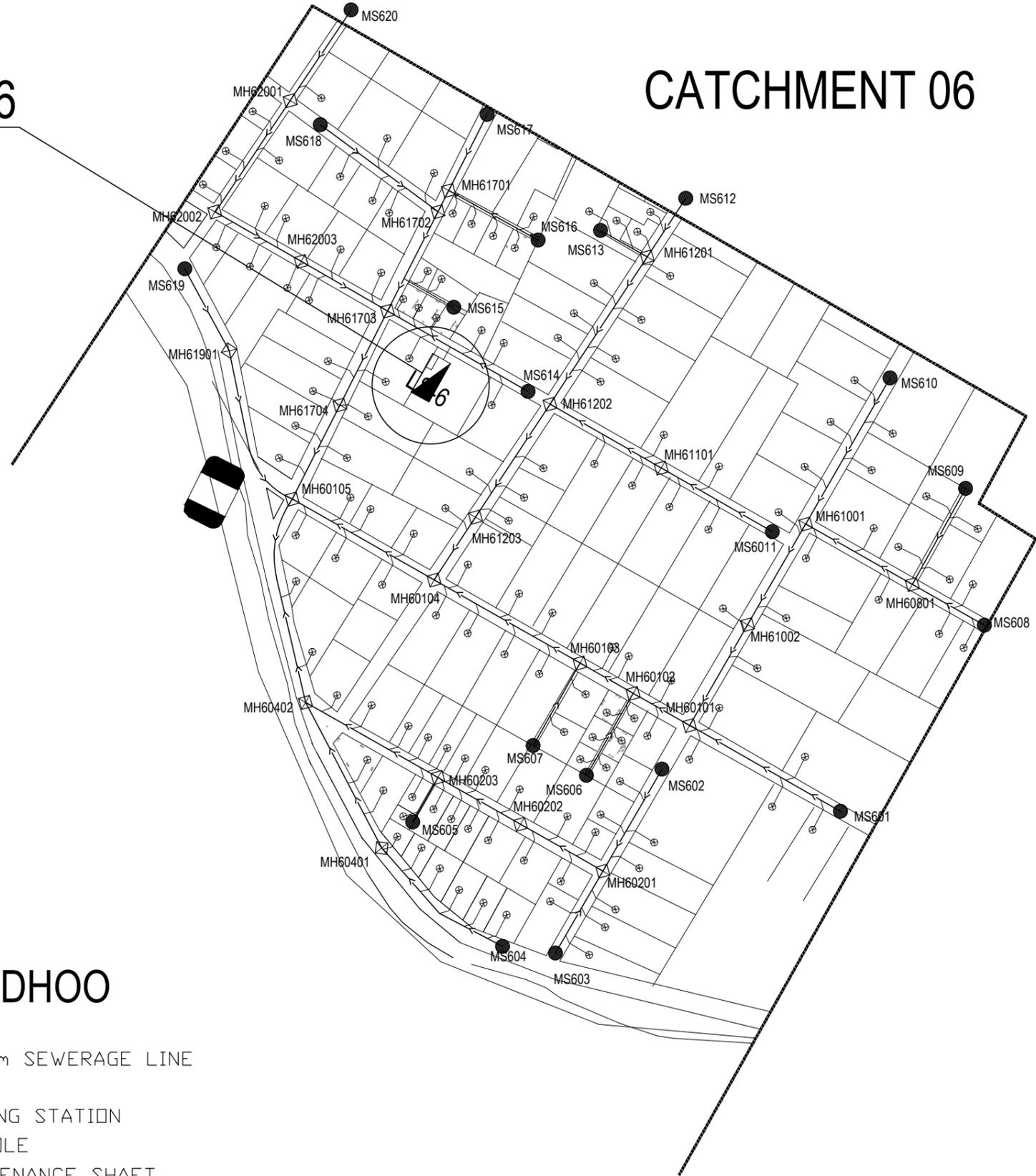
LEGENDS:-

-  - Ø160mm SEWERAGE LINE
-  LS01 - LIFTING STATION
-  MH - MANHOLE
-  MS - MAINTENANCE SHAFT
-  - HOUSE CONNECTION Ø110mm

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
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								Structural Design by:	Hassan Nihad	
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							Date:	28.Mar.2016		
							Scale:	As given		

LIFTING STATION-6

CATCHMENT 06

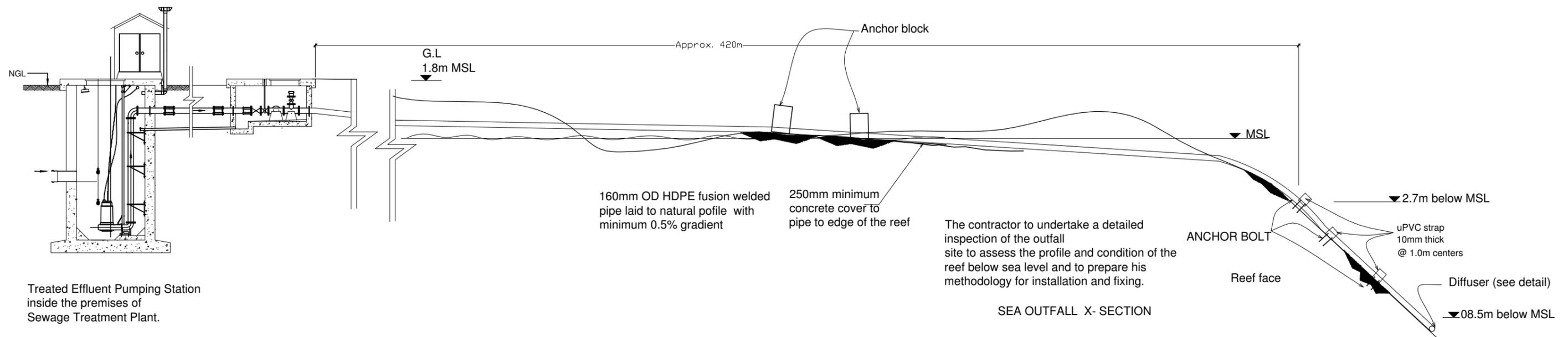


S.FEYDHOO

LEGENDS:-

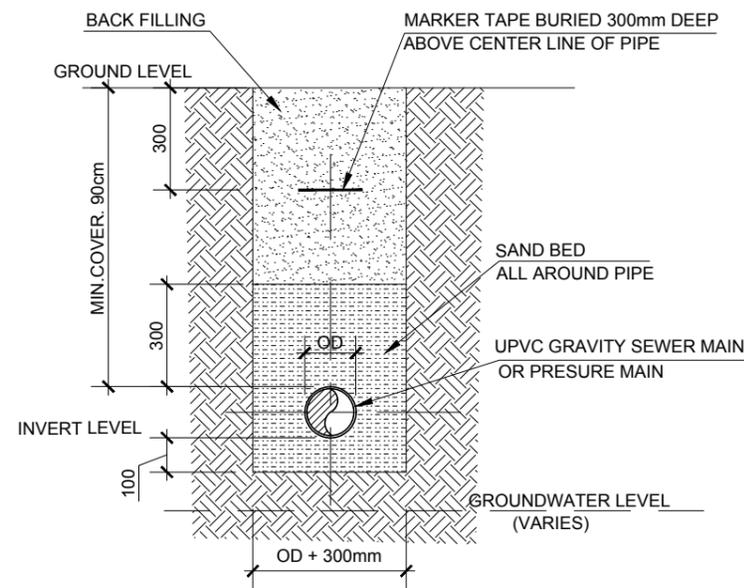
-  - Ø160mm SEWERAGE LINE
-  LS01 - LIFTING STATION
-  MH - MANHOLE
-  MS - MAINTENANCE SHAFT
-  - HOUSE CONNECTION Ø110mm

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
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					Date:	28.Mar.2016				
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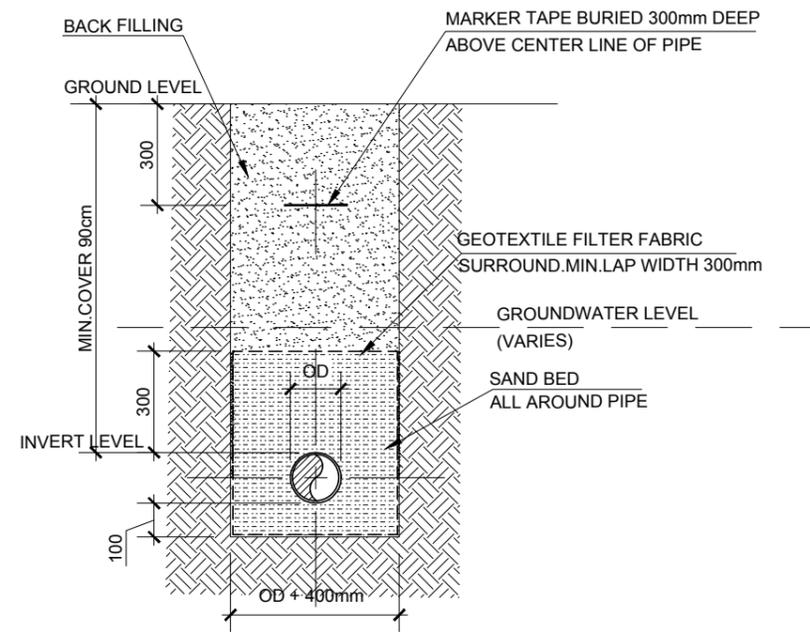


TYPICAL SEAOUTFALL DETAILS (FEYDHOO)

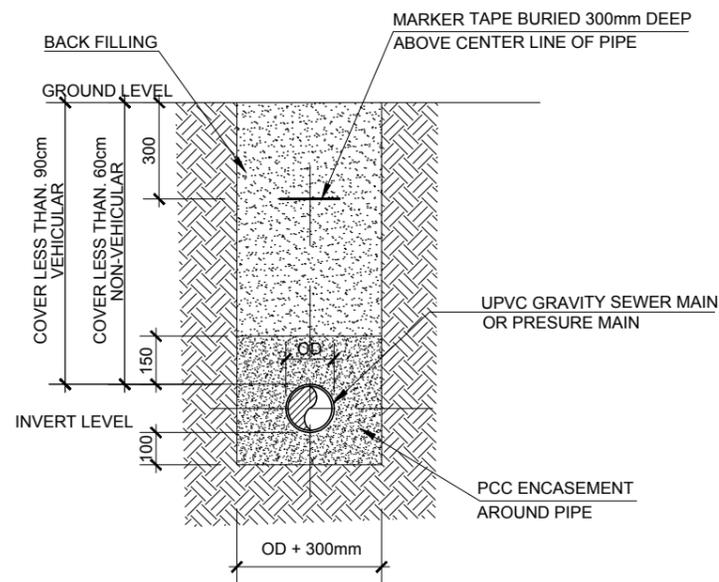
Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer MEECO 2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
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							Date:	28.Mar.2016		
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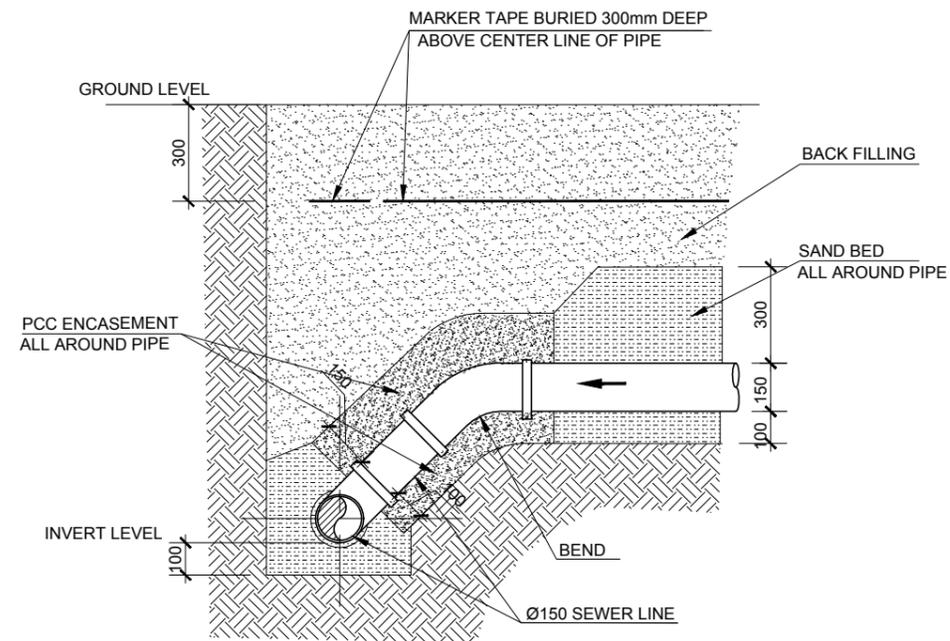
**TYPICAL PIPE TRENCH DETAIL
(WATER TABLE BELOW TRENCH BASE)**



**TYPICAL PIPE TRENCH DETAIL
(WATER TABLE ABOVE TRENCH BASE)**

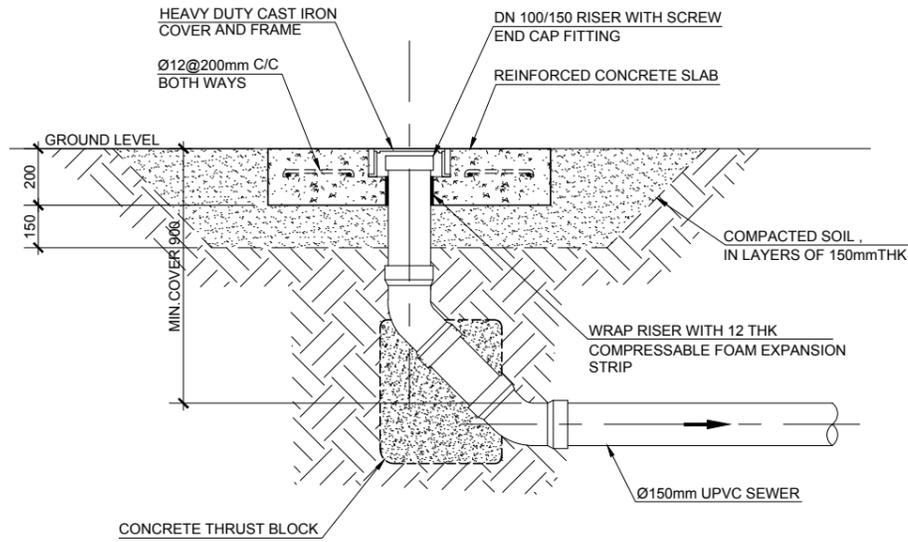


**TYPICAL PIPE TRENCH DETAIL
CONCRETE ENCASUREMENT**

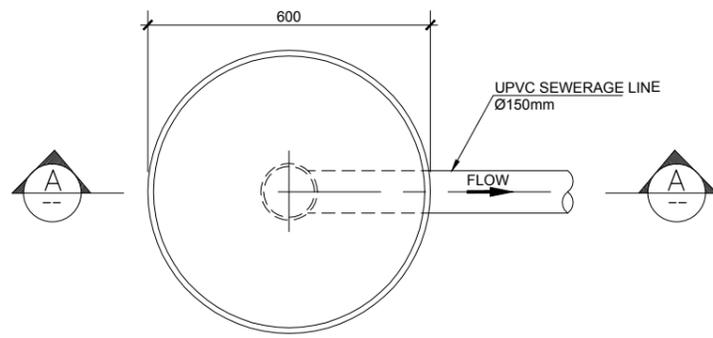


**TYPICAL BRANCH CONNECTION FROM PIPES
AT HIGHER LEVEL TO LOWER LEVEL**

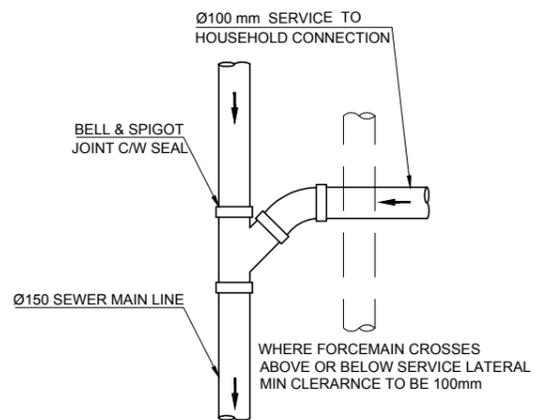
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MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@mecco.com.mv	DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	AS GIVEN					Hydraulic Designed by:	Hussain Shaheed	MF-SW-102
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
								Date:	28.Mar.2016	
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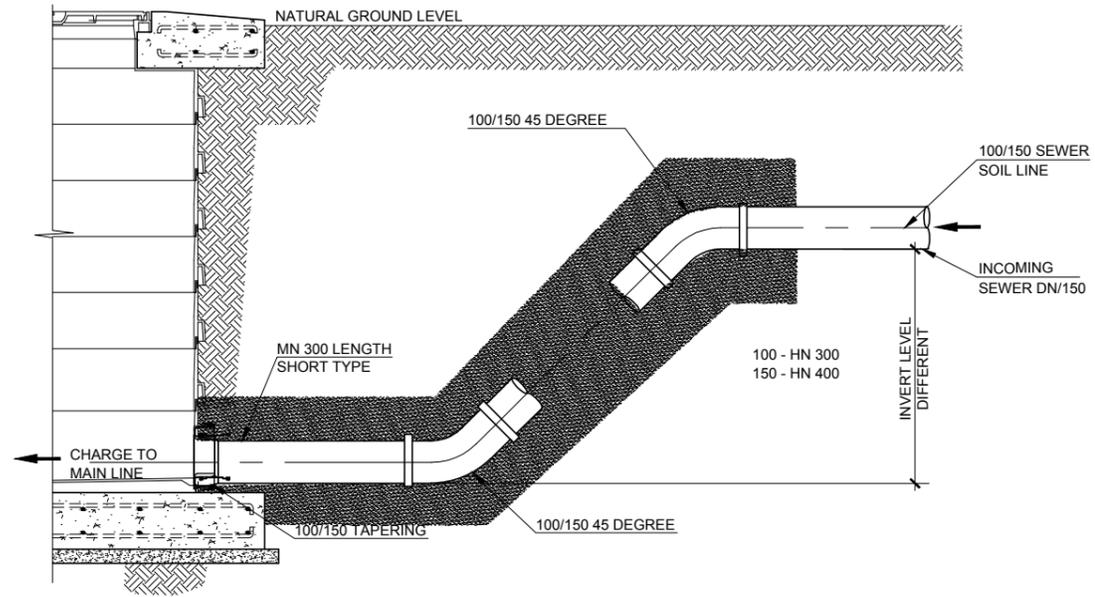
SECTION A-A



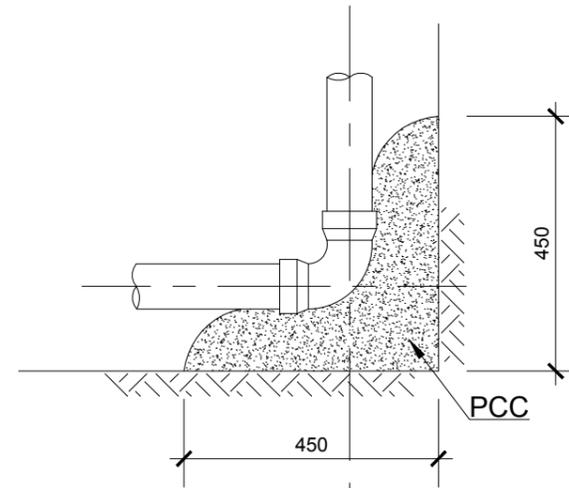
TYPICAL CLEAN OUT (CO)



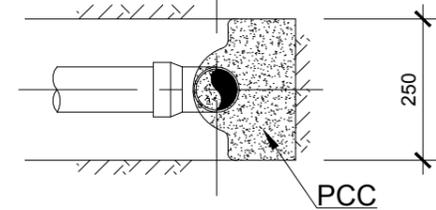
TYPICAL SERVICE LATERAL PLAN



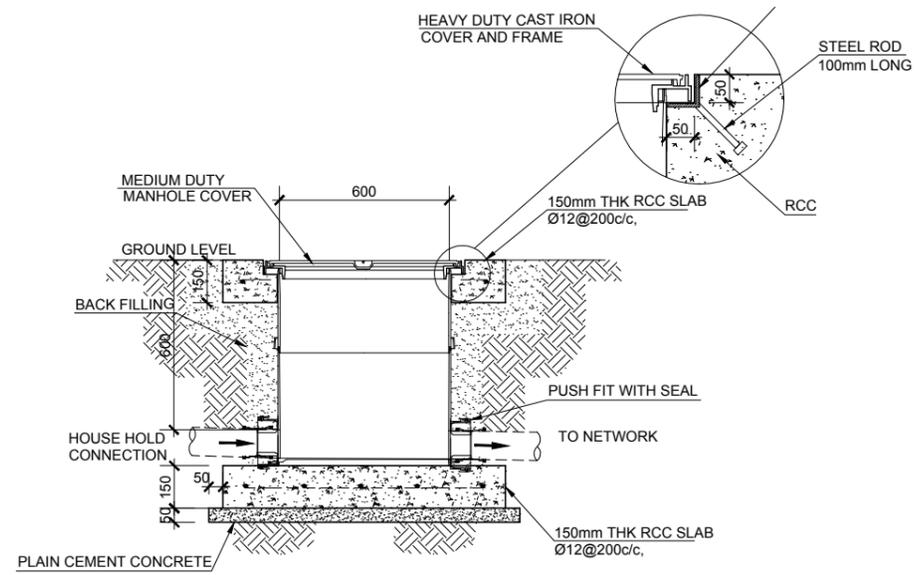
MANHOLE PIPE CONNECTION DETAIL



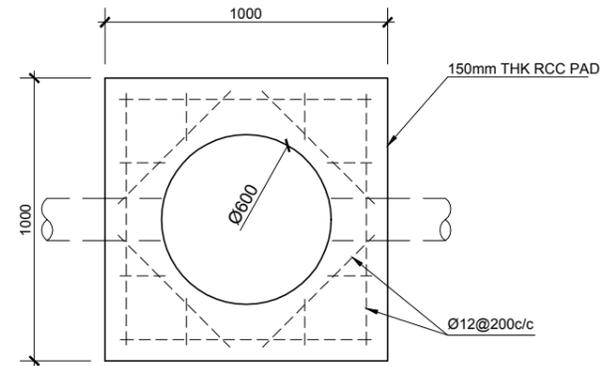
90° HORIZONTAL BEND (BTM) FOR Ø80 PRESSURE PIPE



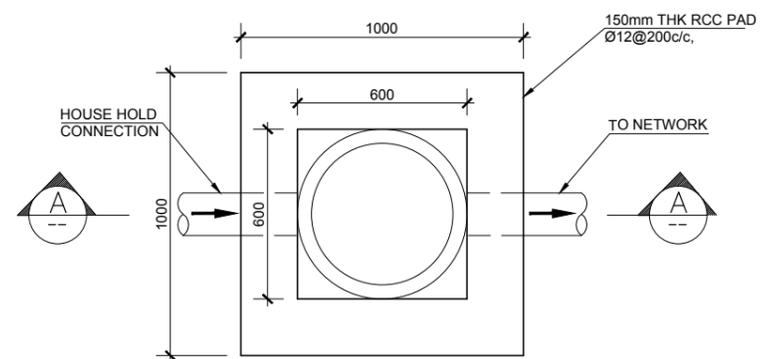
Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer 2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MF-SW-103
								Structural Design by:	Hassain Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
								Date:	28.Mar.2016	
			Scale:	As given						



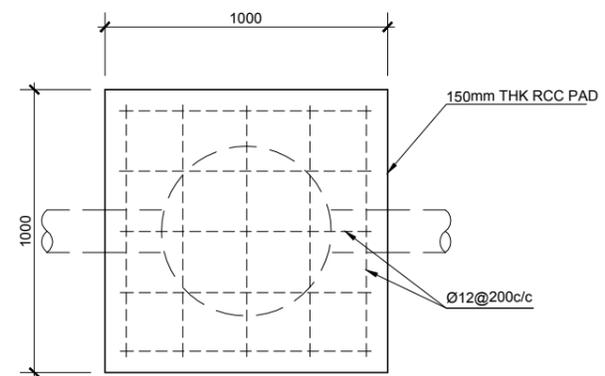
SECTION A-A



TOP SLAB

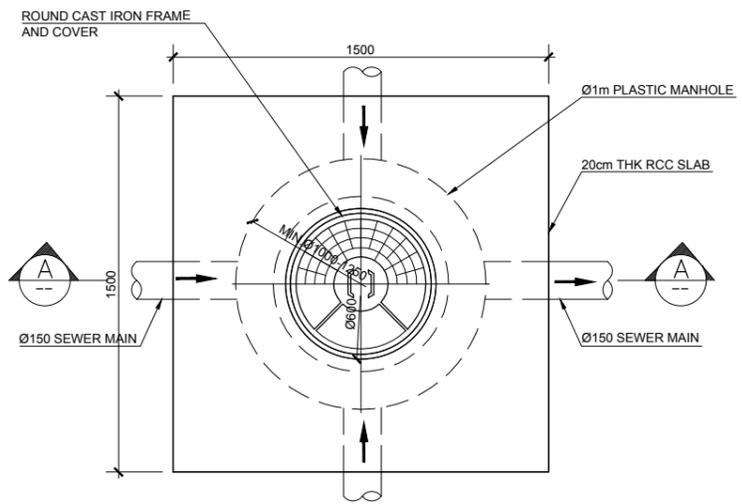


INSPECTION CHAMBER

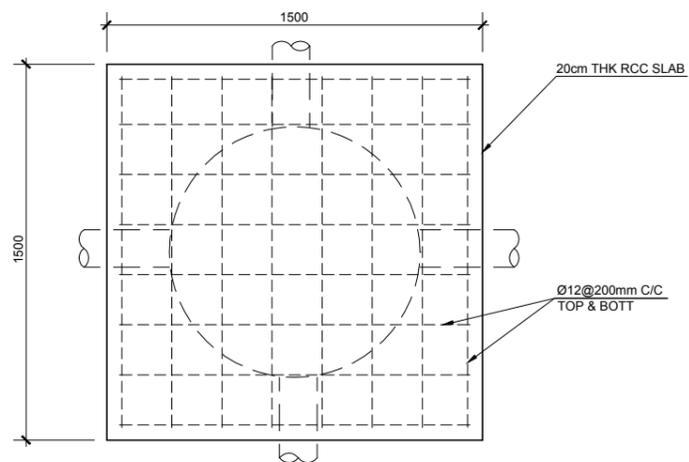


BOTTOM SLAB

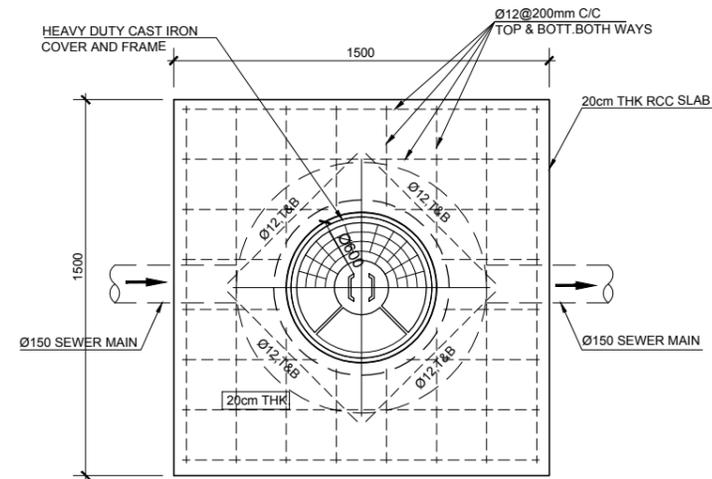
Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer 2nd Floor, Aakakaage-1, Galolhu, Alilikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@mecco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No. MF-SW-104
						-		Hydraulic Designed by:	Hussain Shaheed	
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	
								Date:	28.Mar.2016	
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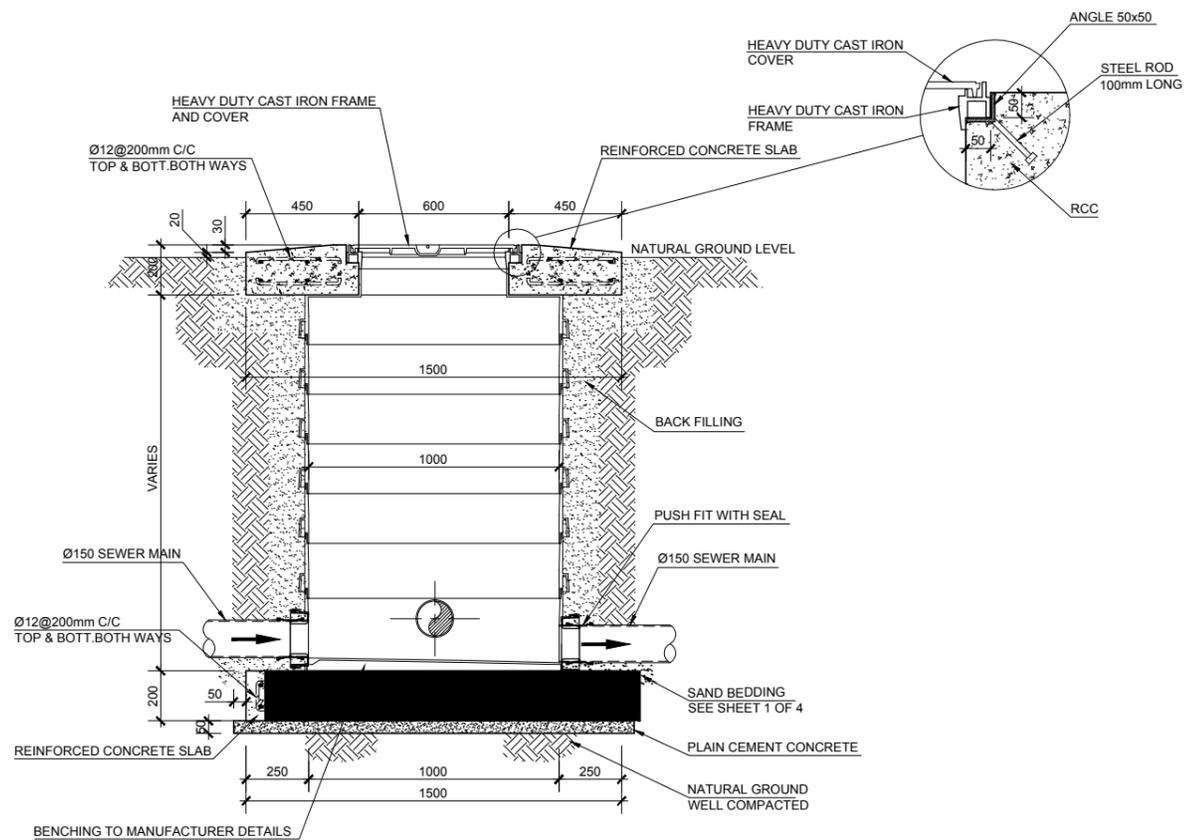
TYPICAL PLASTIC MANHOLE



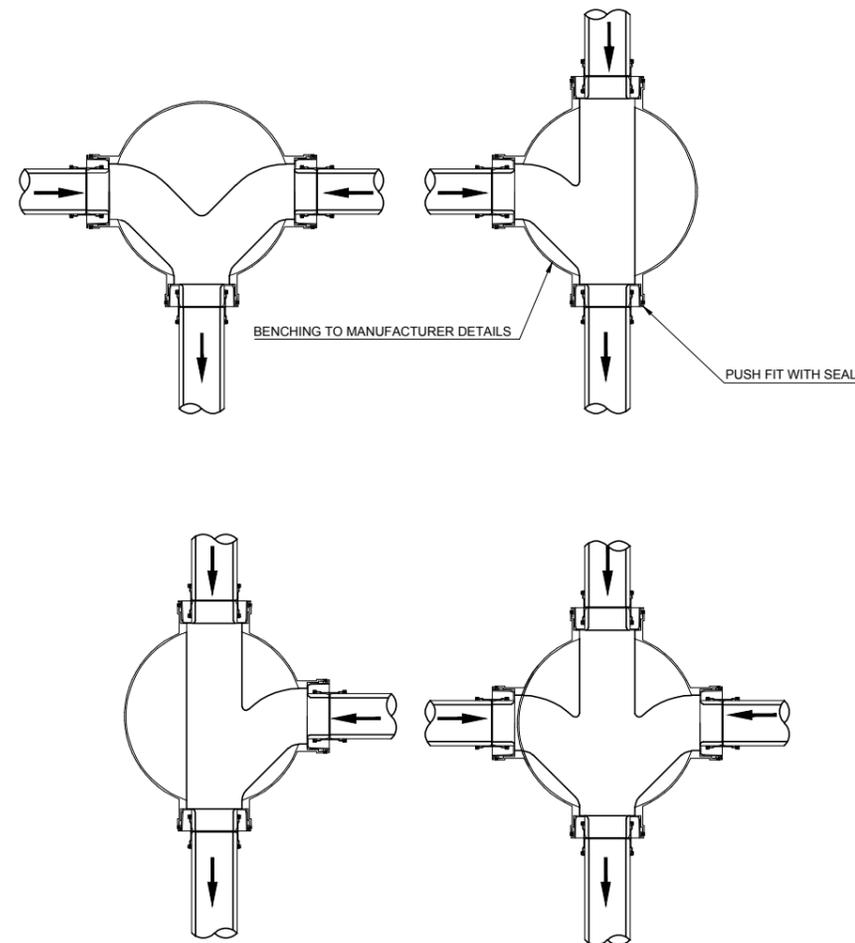
BOTTOM SLAB



TOP SLAB



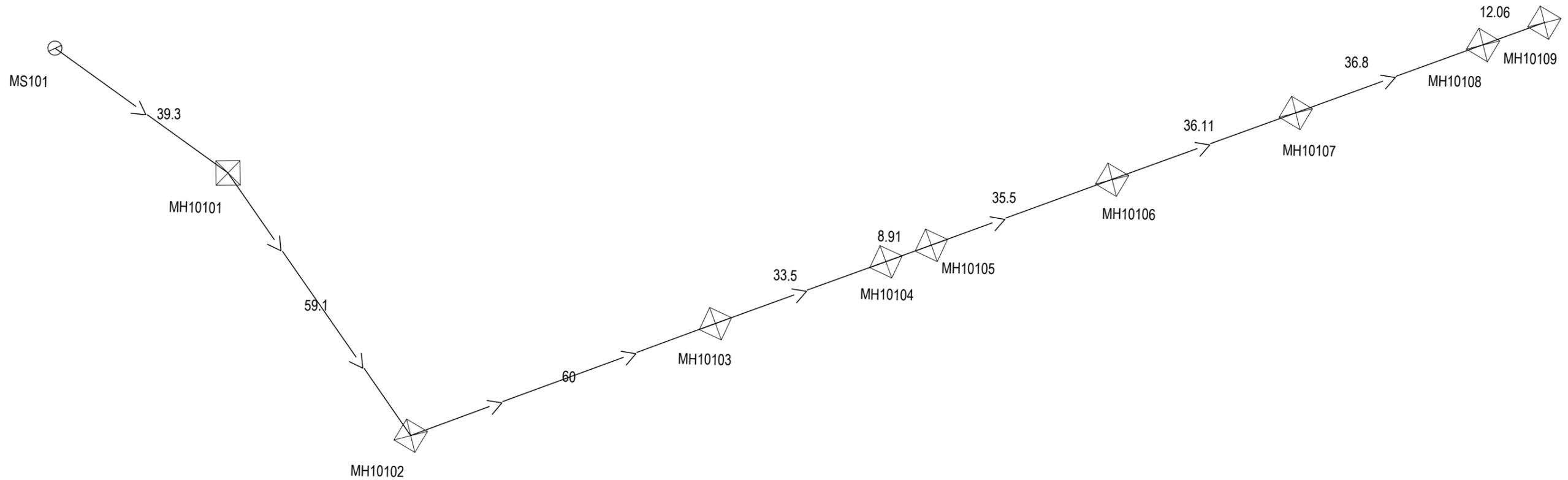
SECTION-A-A



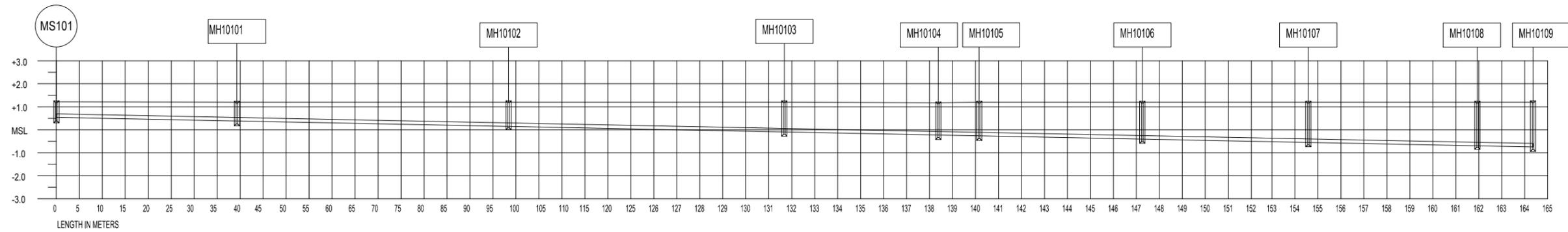
TYPICAL MOULDED PLASTIC MANHOLE BASES

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer 2nd Floor, Aakakaage-1, Galolhu, Alilikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
								Hydraulic Designed by:	Hussain Shaheed	MF-SW-105
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
								Date:	28.Mar.2016	
			Scale:	As given						

**S. MARADHOO, MARADHOO-FEYDHOO
CATCHMENT PROFILE DRAWINGS**



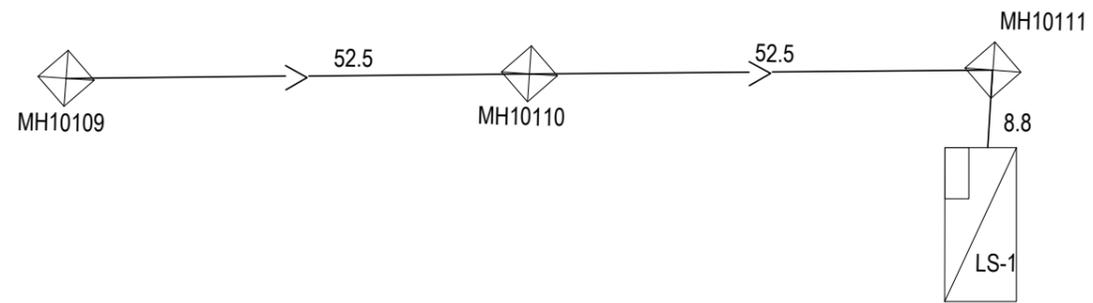
PROFILE-01a



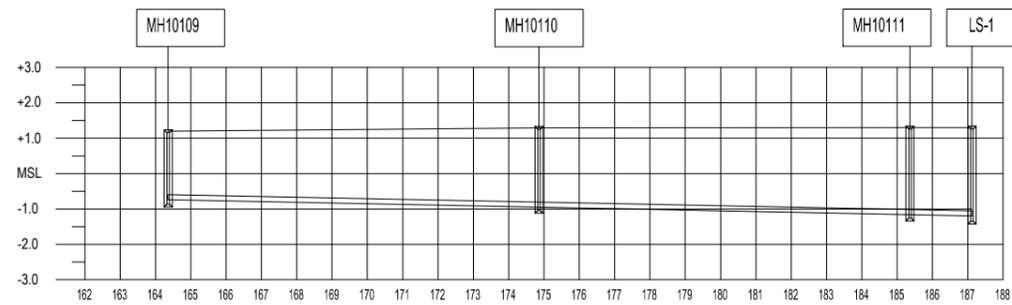
Manhole No	MS101	MH10101	MH10102	MH10103	MH10104	MH10105	MH10106	MH10107	MH10108	MH10109
Ground Level (from MSL)	1.22	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Invert Level	0.62	0.46	0.23	-0.01	-0.15	-0.18	-0.33	-0.47	-0.62	-0.67
Depth of Manhole	0.60	0.74	0.97	1.21	1.35	1.38	1.53	1.67	1.82	1.87
Distance between Manhole	0.00	39.30	59.10	60.00	33.50	8.91	35.50	36.11	36.80	12.08
Pipeslope		0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Pipe diameter		150mm								

CATCHMENT 01

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.1
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
			Date:	28.Mar.2016						
			Scale:	As given						



PROFILE-01b

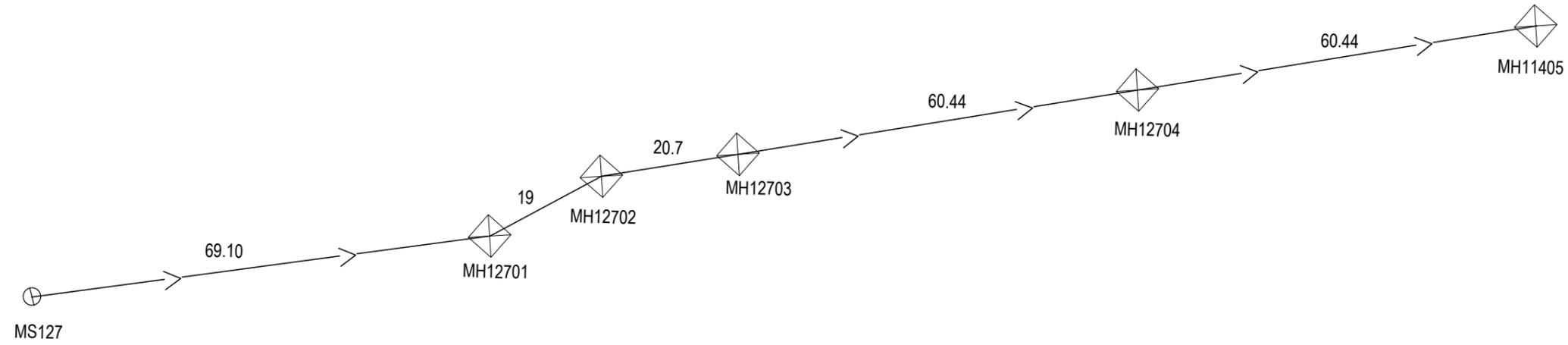


LENGTH IN METERS

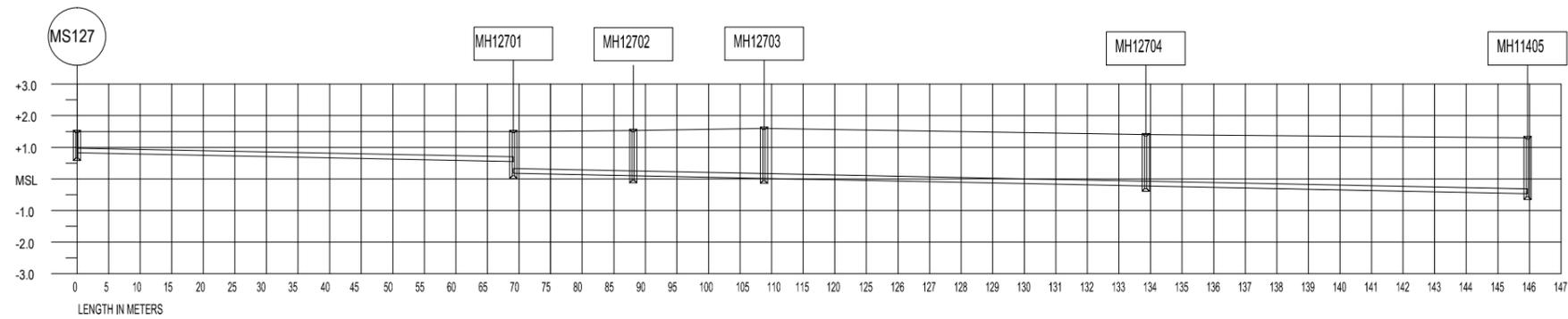
Manhole No	MH10109	MH10110	MH10111	LS-1
Ground Level (from MSL)	1.20	1.30	1.30	1.30
Invert Level	-0.67	-0.88	-1.09	-1.13
Depth of Manhole	1.87	2.18	2.39	2.43
Distance between Manhole	12.08	52.50	52.50	8.80
Pipeslope		0.004	0.004	0.004
Pipe diameter		150mm	150mm	150mm

CATCHMENT 01

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
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								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
								Date:	28.Mar.2016	
			Scale:	As given						



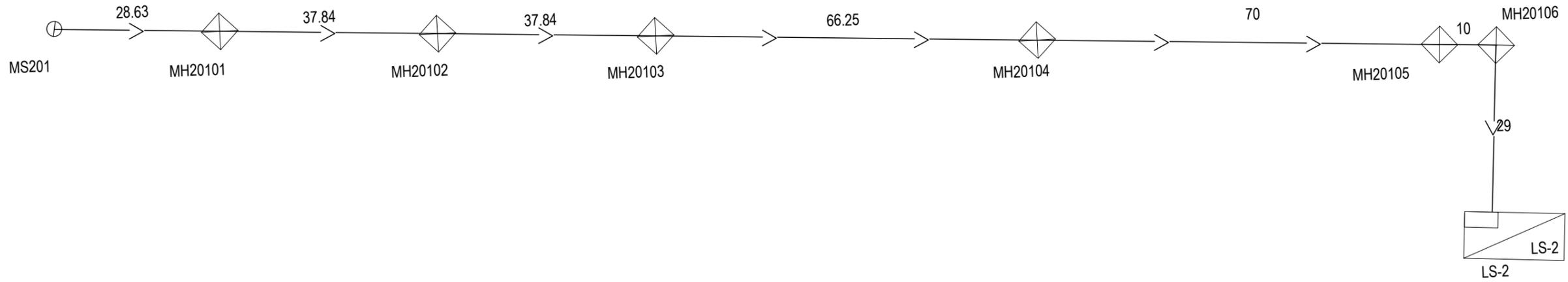
PROFILE-27



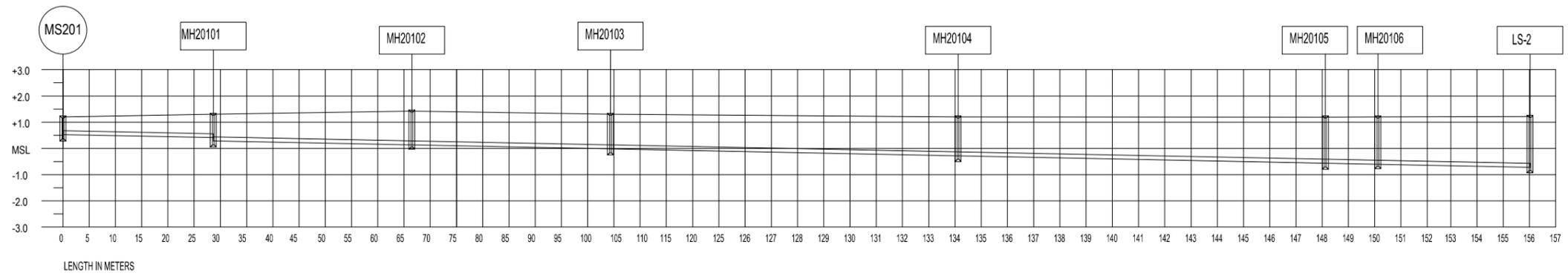
Manhole No	MS127	MH12701	MH12702	MH12703	MH12704	MH11405
Ground Level (from MSL)	1.50	1.50	1.53	1.60	1.40	1.30
Invert Level	0.90	0.25	0.17	0.09	-0.15	-0.39
Depth of Manhole	0.60	1.25	1.36	1.51	1.55	1.69
Distance between Manhole	0.00	69.10	19.00	20.70	60.44	60.44
Pipeslope		0.004	0.004	0.004	0.004	0.004
Pipe diameter		150mm	150mm	150mm	150mm	150mm

CATCHMENT 01

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.3
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
								Date:	28.Mar.2016	
			Scale:	As given						



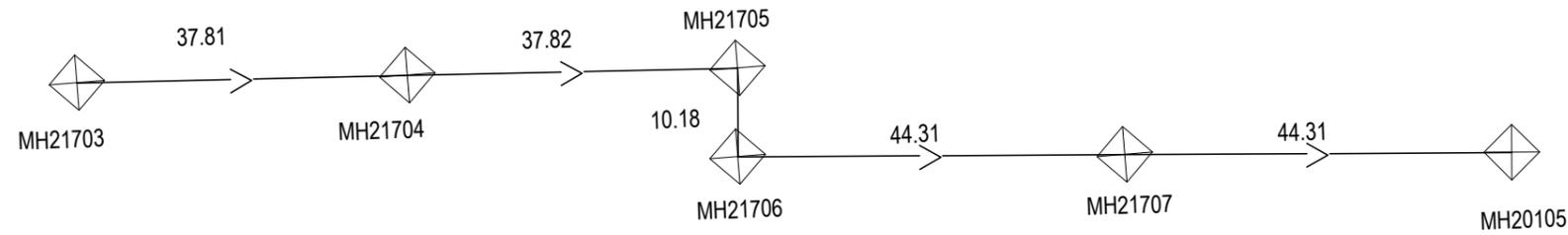
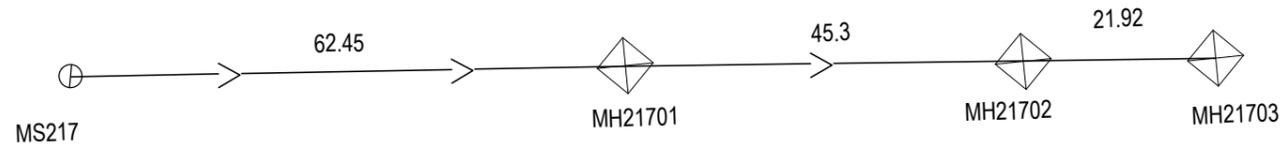
PROFILE-01



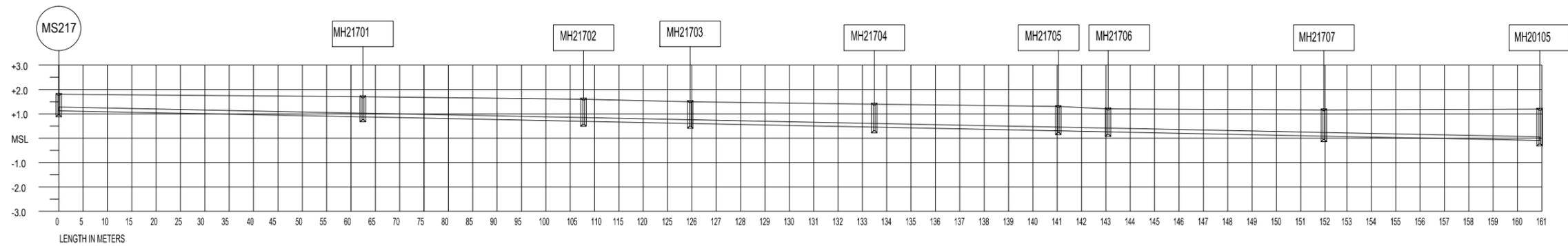
Manhole No	MS201	MH20101	MH20102	MH20103	MH20104	MH20105	MH20106	LS-2
Ground Level (from MSL)	1.20	1.30	1.42	1.30	1.20	1.19	1.20	1.10
Invert Level	0.60	0.49	0.33	-0.63	-0.90	-1.18	-1.22	-1.33
Depth of Manhole	0.60	0.81	1.09	1.93	2.10	2.37	2.42	2.43
Distance between Manhole	0.00	28.63	37.84	37.84	66.25	70.00	10.00	29.00
Pipeslope		0.004	0.004	0.004	0.004	0.004	0.004	0.004
Pipe diameter		150mm	150mm	150mm	150mm	150mm	150mm	150mm

CATCHMENT 02

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.4
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
								Date:	28.Mar.2016	
			Scale:	As given						



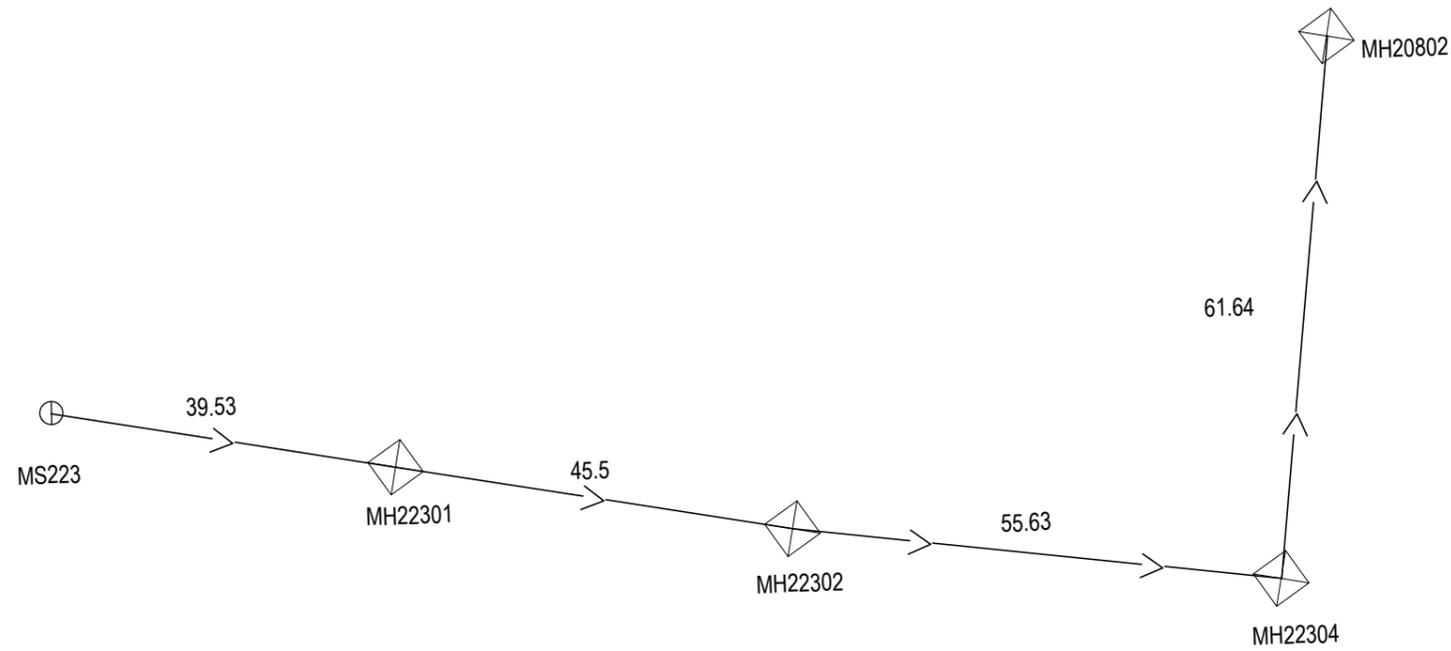
PROFILE-17



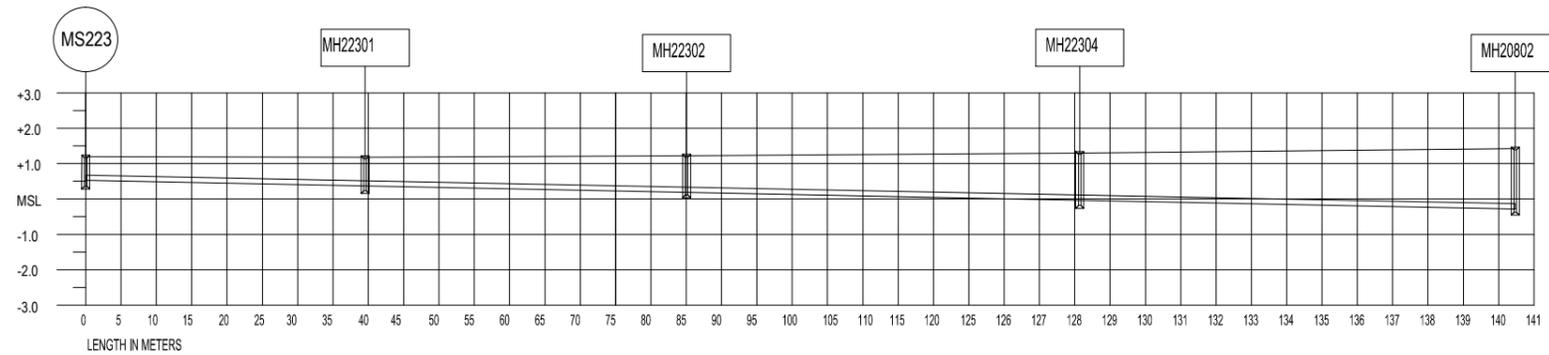
Manhole No	MS217	MH21701	MH21702	MH21703	MH21704	MH21705	MH21706	MH21707	MH20105
Ground Level (from MSL)	1.80	1.70	1.60	1.50	1.40	1.30	1.20	1.16	1.19
Invert Level	1.20	0.95	0.77	0.68	0.53	0.38	0.34	0.16	-0.02
Depth of Manhole	0.60	0.75	0.83	0.82	0.87	0.92	0.86	1.00	1.21
Distance between Manhole	0.00	62.45	45.30	21.92	37.81	37.82	10.18	44.31	44.31
Pipeslope		0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Pipe diameter		150mm							

CATCHMENT 02

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.5
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
			Date:	28.Mar.2016						
			Scale:	As given						



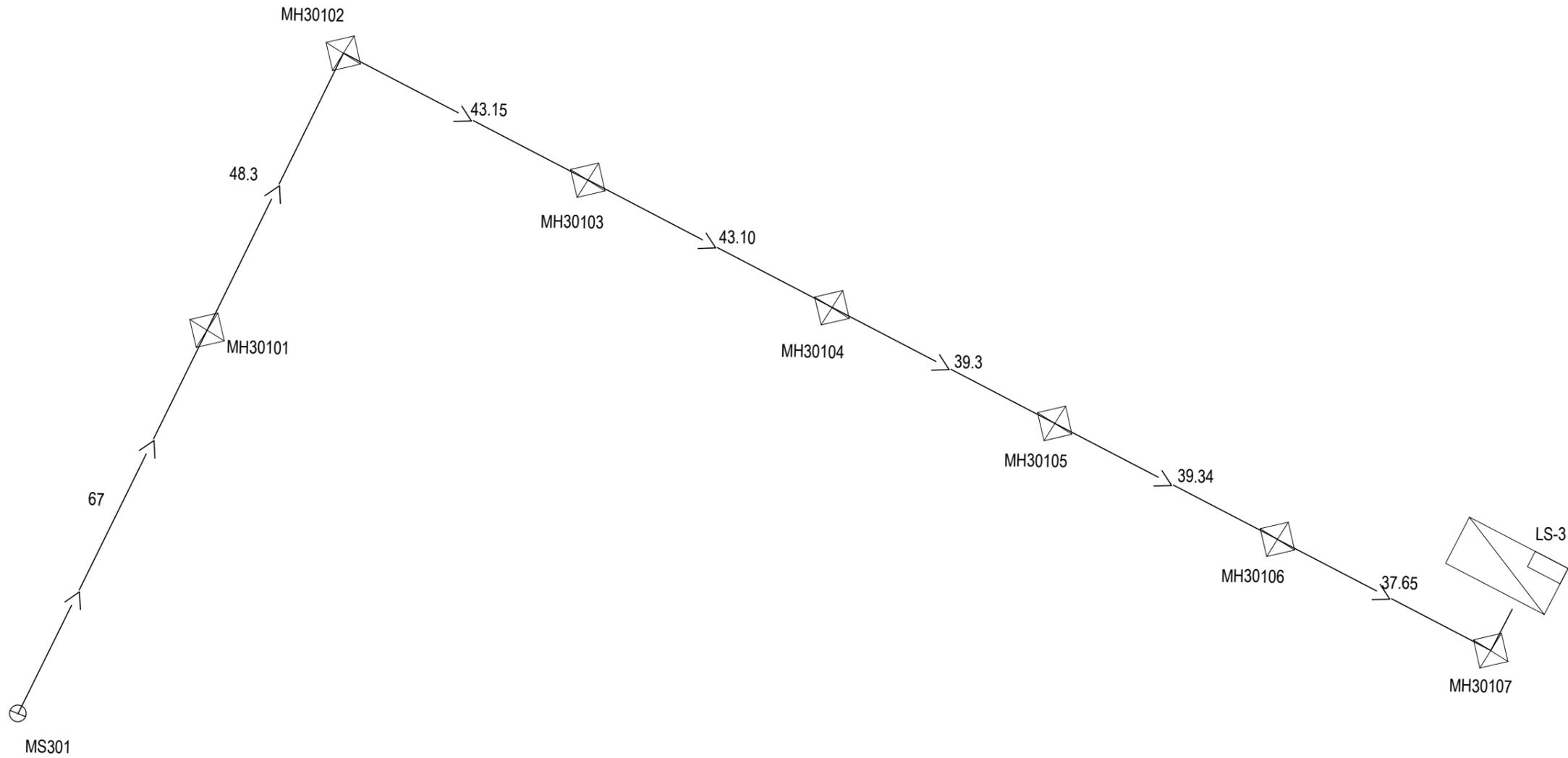
PROFILE-23



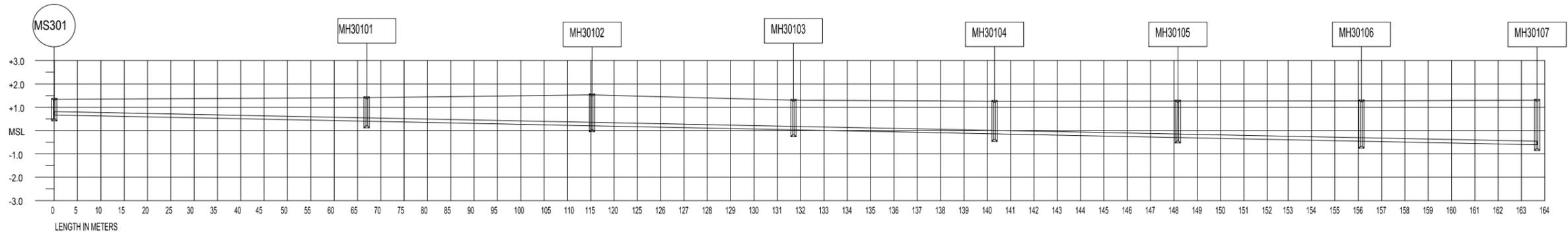
Manhole No	MS223	MH22301	MH22302	MH22304	MH20802
Ground Level (from MSL)	1.20	1.18	1.22	1.30	1.43
Invert Level	0.60	0.44	0.26	0.04	-0.21
Depth of Manhole	0.60	0.74	0.96	1.26	1.64
Distance between Manhole	0.00	39.53	45.50	55.63	61.64
Pipeslope		0.004	0.004	0.004	0.004
Pipe diameter		150mm	150mm	150mm	150mm

CATCHMENT 02

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer MEECO 2nd Floor, Aakakaage-1, Galolhu, Alikilefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.6
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
					Date:	28.Mar.2016				
					Scale:	As given				



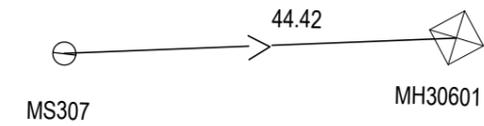
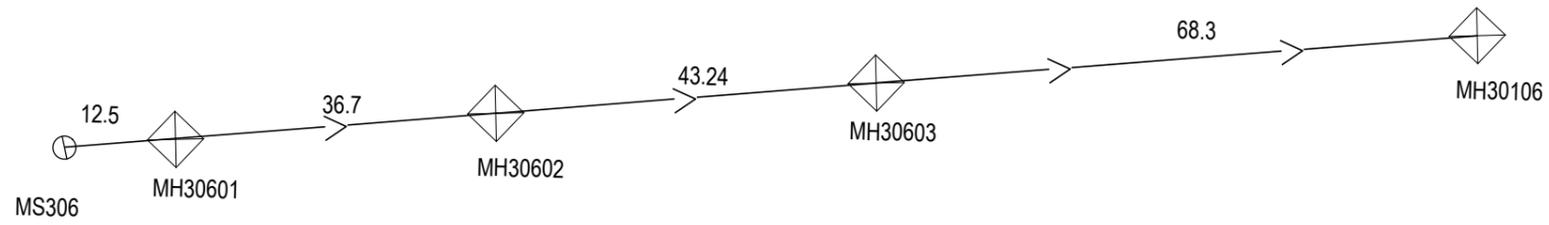
PROFILE-01



Manhole No	MS301	MH30101	MH30102	MH30103	MH30104	MH30105	MH30106	MH30107
Ground Level (from MSL)	1.34	1.41	1.53	1.30	1.25	1.26	1.27	1.30
Invert Level	0.74	0.47	0.28	0.11	-0.07	-0.22	-0.38	-0.53
Depth of Manhole	0.60	0.94	1.25	1.19	1.32	1.48	1.65	1.83
Distance between Manhole	0.00	67.00	48.30	43.15	43.10	39.30	39.34	37.65
Pipeslope		0.004	0.004	0.004	0.004	0.004	0.004	0.004
Pipe diameter		150mm						

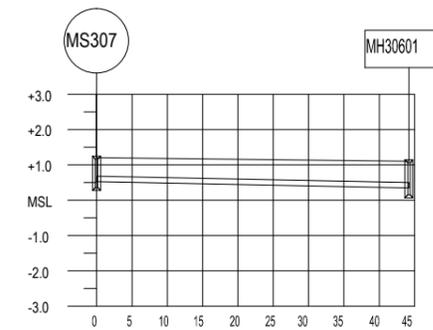
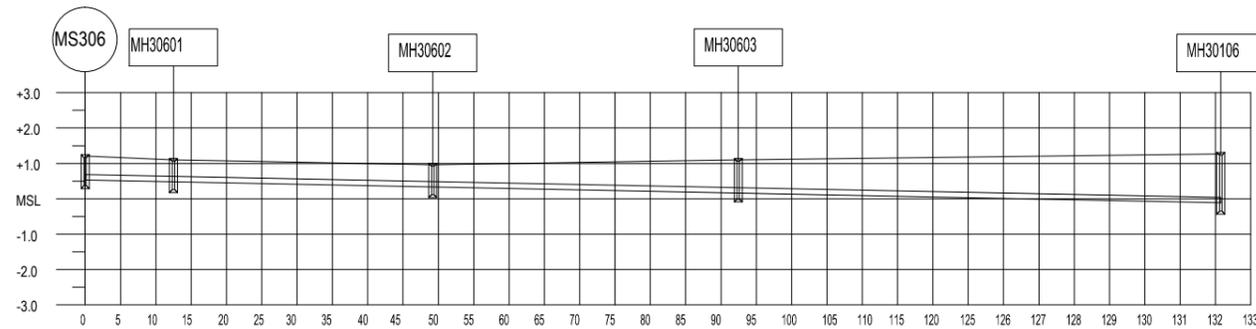
CATCHMENT 03

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.7
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
			Date:	28.Mar.2016						
			Scale:	As given						



PROFILE-06

PROFILE-07



LENGTH IN METERS

Manhole No	MS306	MH30601	MH30602	MH30603	MH30106
Ground Level (from MSL)	1.21	1.10	0.96	1.30	1.25
Invert Level	0.61	0.56	0.41	0.24	-0.03
Depth of Manhole	0.60	0.54	0.55	1.06	1.28
Distance between Manhole	0.00	12.50	36.70	43.24	68.30
Pipeslope		0.004	0.004	0.004	0.004
Pipe diameter		150mm	150mm	150mm	150mm

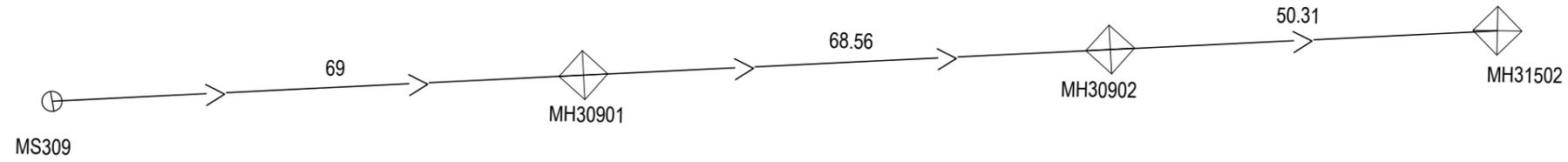
LENGTH IN METERS

Manhole No	MS307	MH30601
Ground Level (from MSL)	1.20	1.10
Invert Level	0.60	0.42
Depth of Manhole	0.60	0.68
Distance between Manhole	0.00	44.20
Pipeslope		0.004
Pipe diameter		150mm

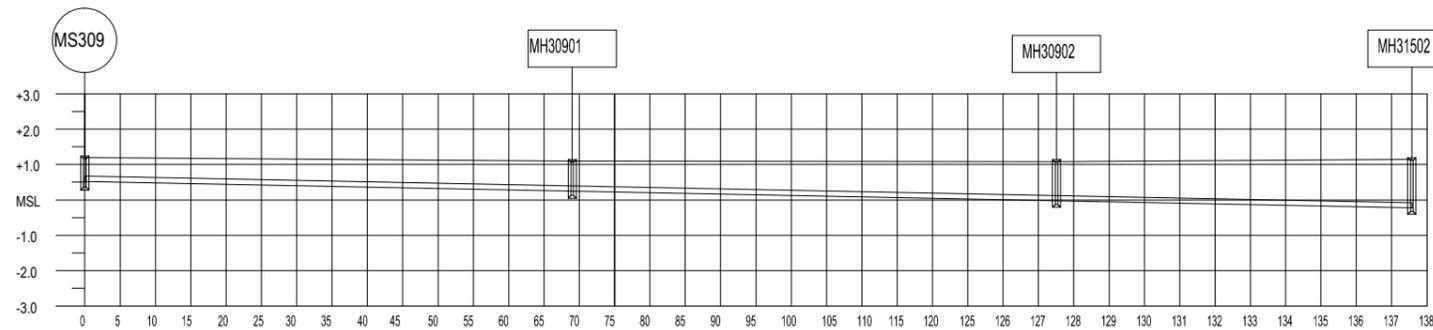
CATCHMENT 03

CATCHMENT 03

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev Date Notes by Engineer:	Drawn by: Ahmed A.Saththaru	Drawing No. MA-SW-106.8
					- - -	Hydraulic Designed by: Hussain Shaheed	Sheet No.
					- - -	Structural Design by: Hassan Nihad	
					- - -	Checked by: Hussain Shaheed Date: 28.Mar.2016 Scale: As given	



PROFILE-09

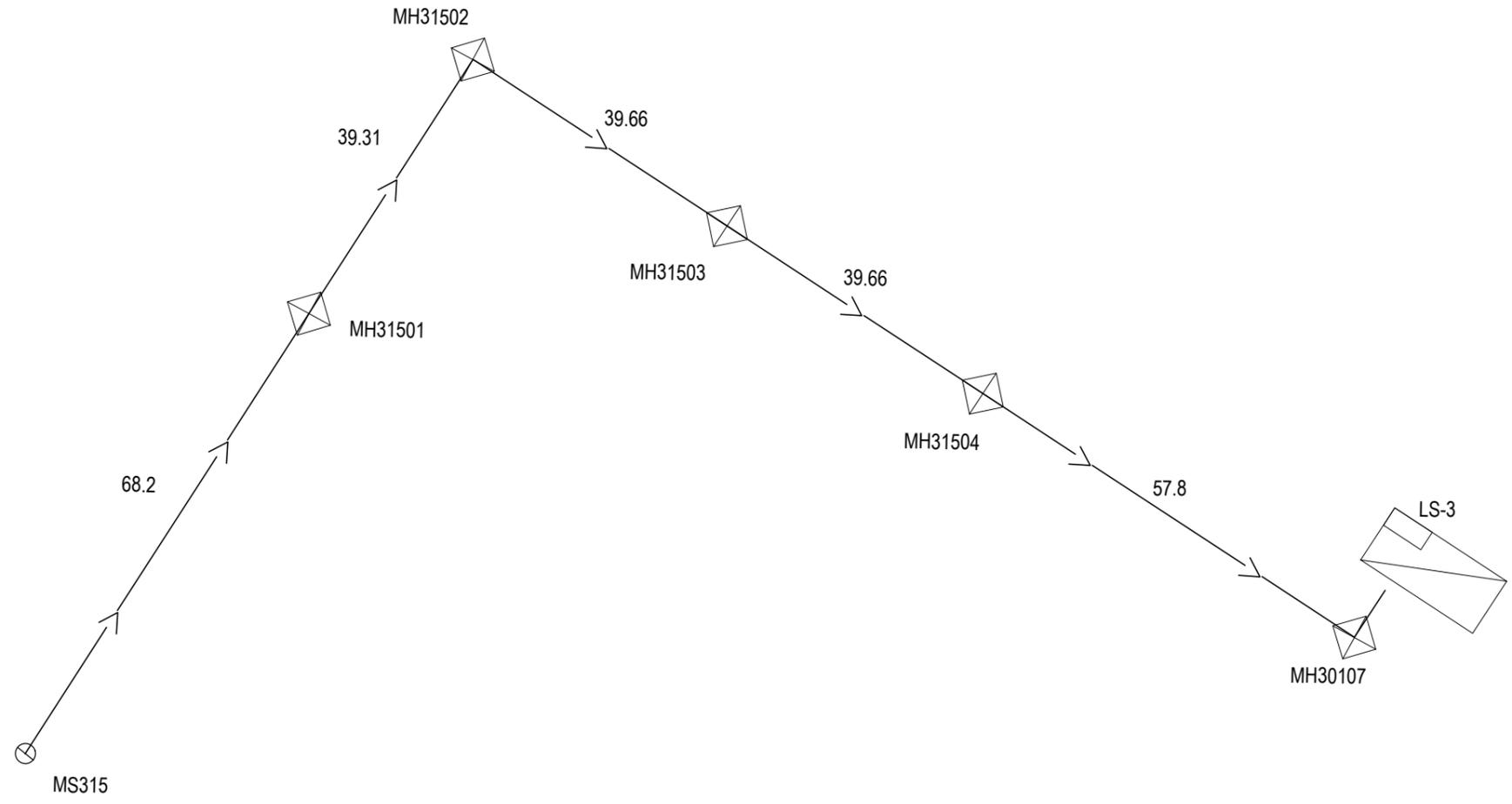


LENGTH IN METERS

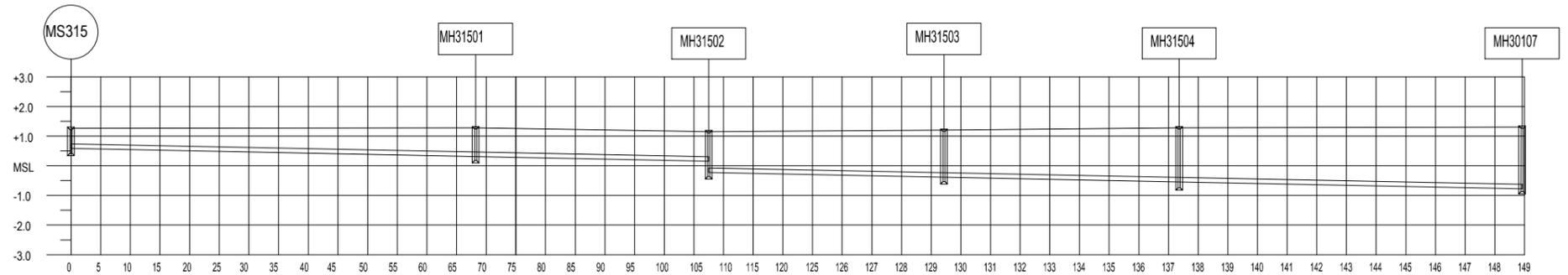
Manhole No	MS309	MH30901	MH30902	MH31502
Ground Level (from MSL)	1.20	1.10	1.08	1.15
Invert Level	0.60	0.32	0.05	-0.15
Depth of Manhole	0.60	0.78	1.03	1.30
Distance between Manhole	0.00	69.00	68.56	50.31
Pipeslope		0.004	0.004	0.004
Pipe diameter		150mm	150mm	150mm

CATCHMENT 03

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.9
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
								Date:	28.Mar.2016	
			Scale:	As given						



PROFILE-15

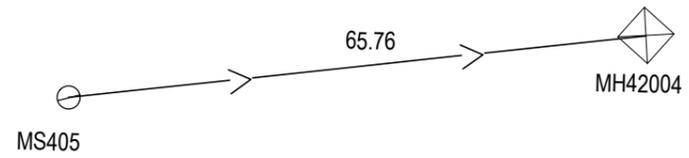
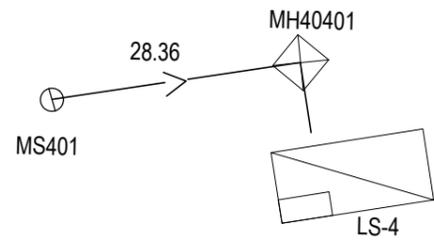


LENGTH IN METERS

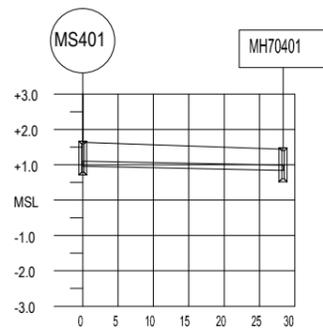
Manhole No	MS315	MH31501	MH31502	MH31503	MH31504	MH30107
Ground Level (from MSL)	1.26	1.28	1.15	1.20	1.28	1.30
Invert Level	0.66	0.39	-0.15	-0.31	-0.47	-0.70
Depth of Manhole	0.60	0.89	1.30	1.51	1.75	2.00
Distance between Manhole	0.00	68.20	39.31	39.66	39.66	57.80
Pipeslope		0.004	0.004	0.004	0.004	0.004
Pipe diameter		150mm	150mm	150mm	150mm	150mm

CATCHMENT 03

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.10
								Checked by:	Hussain Shaheed	Sheet No.
								Date:	28.Mar.2016	
			Scale:	As given						



PROFILE-01

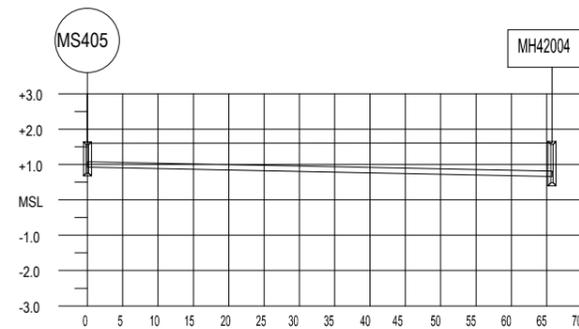


LENGTH IN METERS

Manhole No	MS401	MH40401
Ground Level (from MSL)	1.63	1.44
Invert Level	1.03	0.92
Depth of Manhole	0.60	0.52
Distance between Manhole	0.00	28.36
Pipeslope		0.004
Pipe diameter		150mm

CATCHMENT 04

PROFILE-05

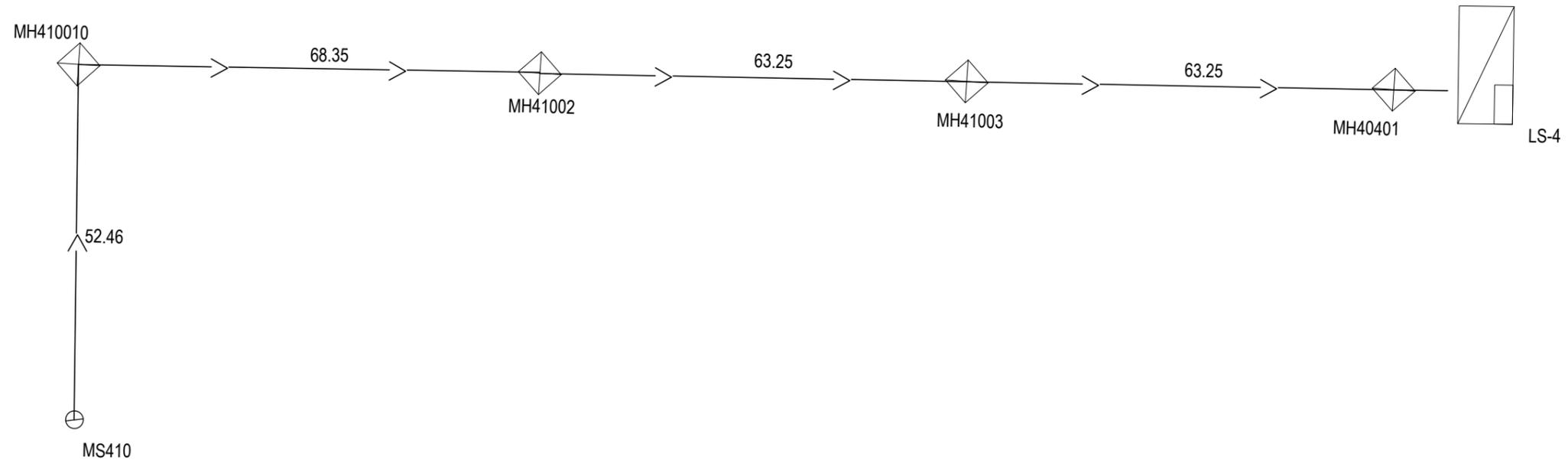


LENGTH IN METERS

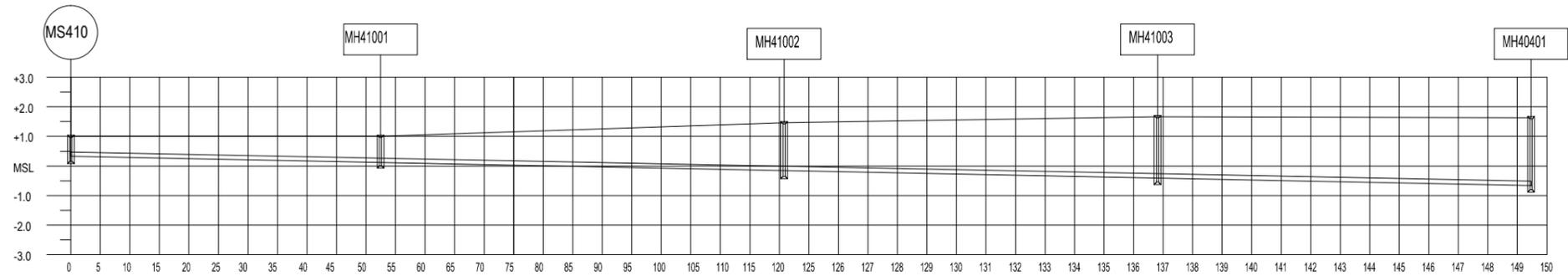
Manhole No	MS405	MH42004
Ground Level (from MSL)	1.60	1.61
Invert Level	1.00	0.74
Depth of Manhole	0.60	0.87
Distance between Manhole	0.00	65.76
Pipeslope		0.004
Pipe diameter		150mm

CATCHMENT 04

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer MEECO 2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.11
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
					Date:	28.Mar.2016				
					Scale:	As given				



PROFILE-10

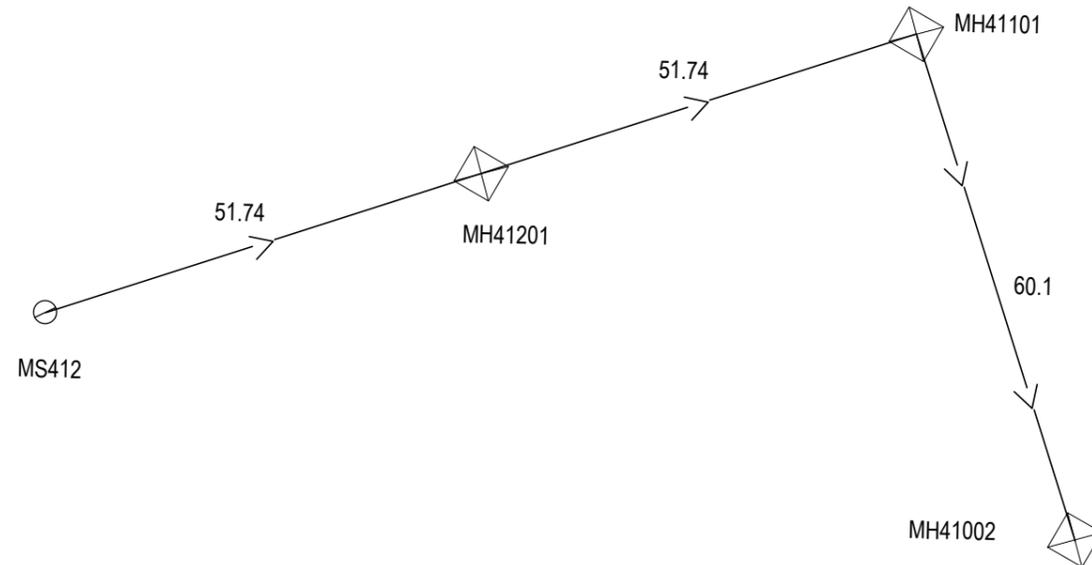
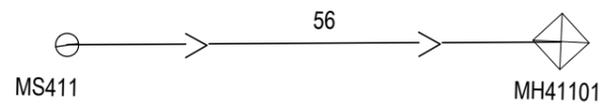


LENGTH IN METERS

Manhole No	MS410	MH41001	MH41002	MH41003	MH40401
Ground Level (from MSL)	1.00	1.00	1.46	1.64	1.44
Invert Level	0.40	0.19	-0.08	-0.34	-0.59
Depth of Manhole	0.60	0.81	1.54	1.98	2.03
Distance between Manhole	0.00	52.46	68.35	63.25	63.25
Pipeslope		0.004	0.004	0.004	0.004
Pipe diameter		150mm	150mm	150mm	150mm

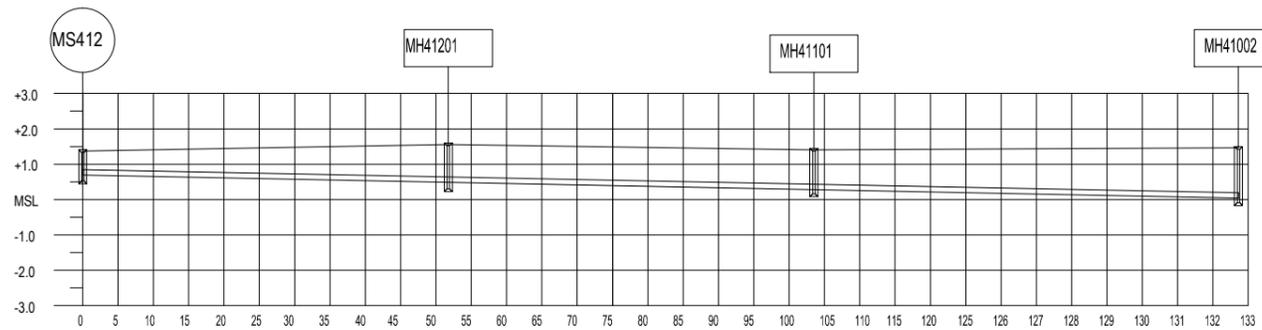
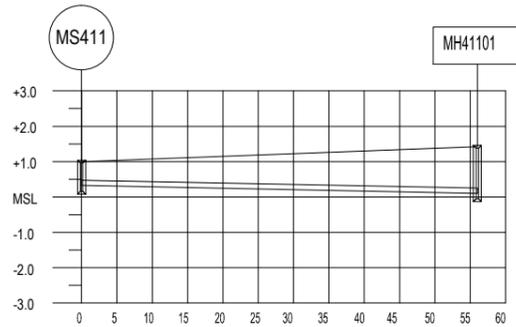
CATCHMENT 04

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.12
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
								Date:	28.Mar.2016	
			Scale:	As given						



PROFILE-11

PROFILE-12



LENGTH IN METERS

Manhole No	MS411	MH41101
Ground Level (from MSL)	1.00	1.42
Invert Level	0.40	0.18
Depth of Manhole	0.60	1.24
Distance between Manhole	0.00	56.00
Pipeslope		0.004
Pipe diameter		150mm

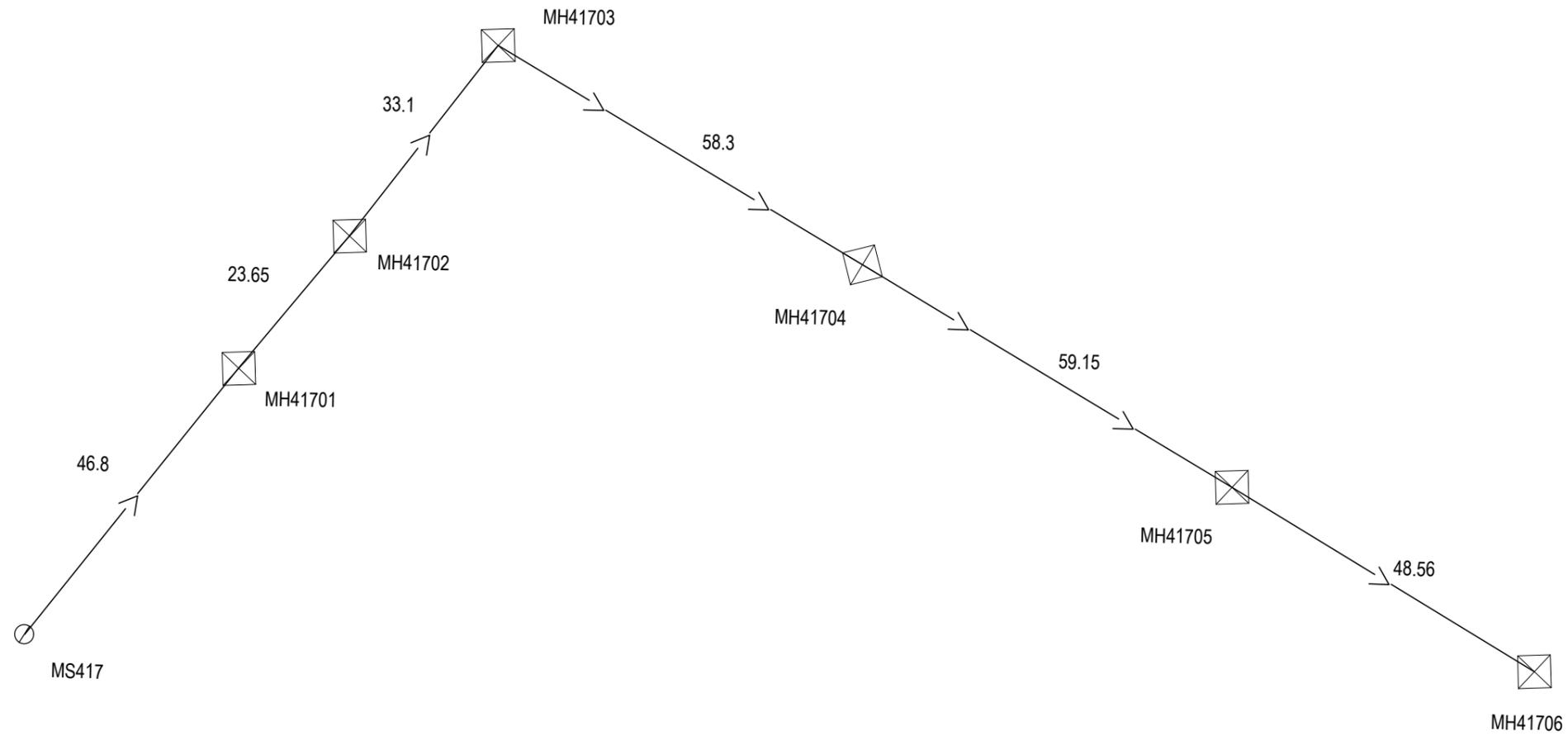
LENGTH IN METERS

Manhole No	MS412	MH41201	MH41101	MH41002
Ground Level (from MSL)	1.37	1.56	1.42	1.46
Invert Level	0.77	0.56	0.36	0.12
Depth of Manhole	0.60	1.00	1.06	1.34
Distance between Manhole	0.00	51.74	51.74	60.10
Pipeslope		0.004	0.004	0.004
Pipe diameter		150mm	150mm	150mm

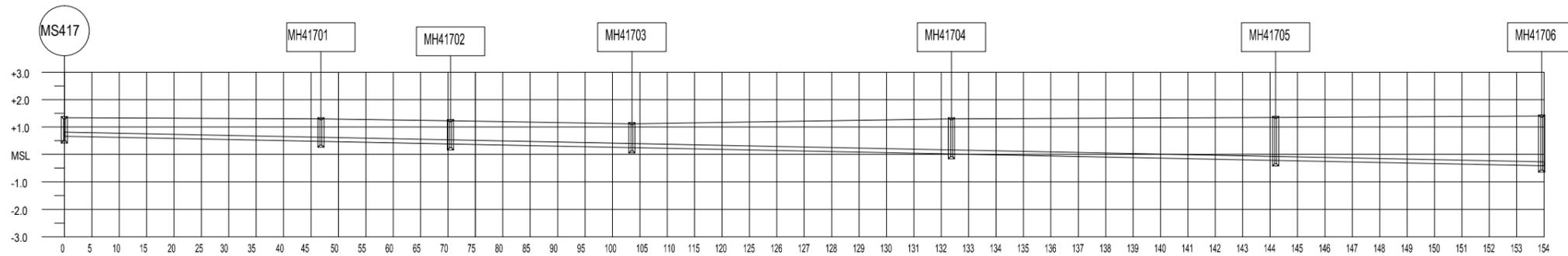
CATCHMENT 04

CATCHMENT 04

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.13
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
								Date:	28.Mar.2016	
			Scale:	As given						



PROFILE-17

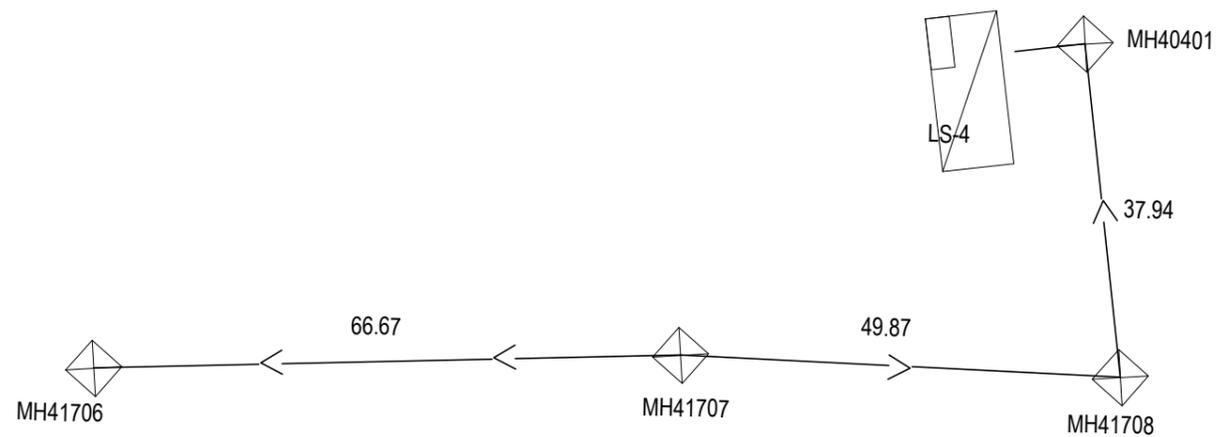


LENGTH IN METERS

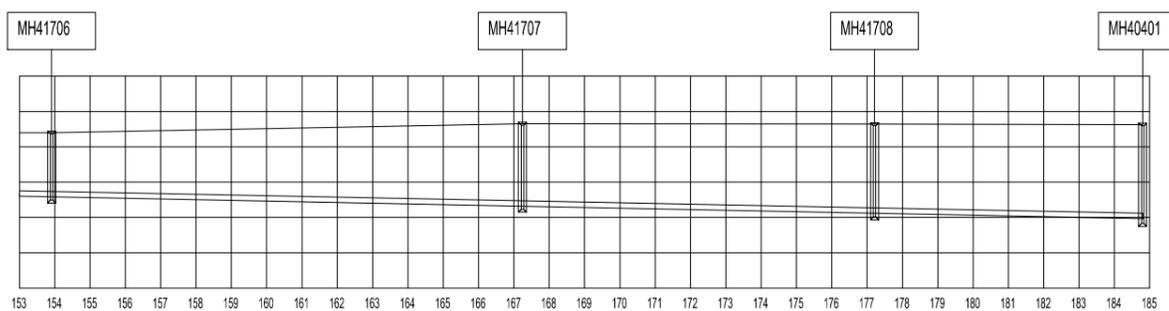
Manhole No	MS417	MH41701	MH41702	MH41703	MH41704	MH41705	MH41706
Ground Level (from MSL)	1.34	1.30	1.23	1.12	1.30	1.35	1.40
Invert Level	0.74	0.55	0.46	0.33	0.09	-0.14	-0.34
Depth of Manhole	0.60	0.75	0.77	0.79	1.21	1.49	1.74
Distance between Manhole	0.00	46.80	23.65	33.10	58.30	59.15	48.56
Pipeslope		0.004	0.004	0.004	0.004	0.004	0.004
Pipe diameter		150mm	150mm	150mm	150mm	150mm	150mm

CATCHMENT 04

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer MEECO 2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.14
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
					Date:	28.Mar.2016				
					Scale:	As given				



PROFILE-17

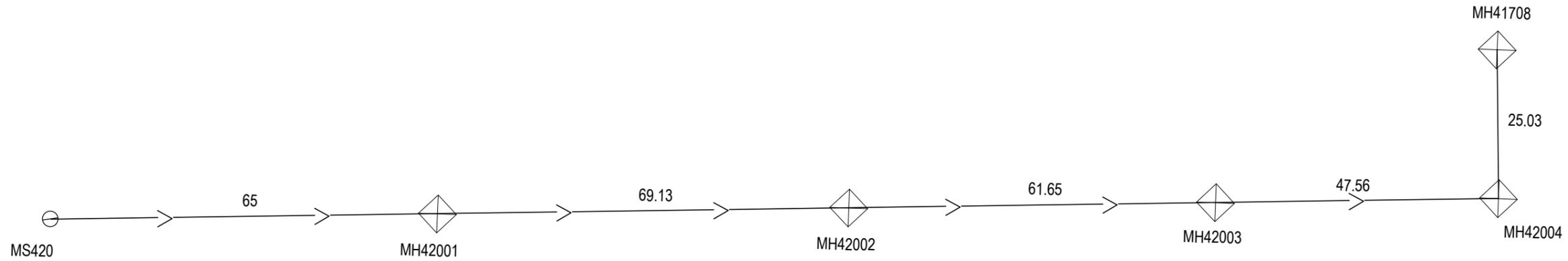


LENGTH IN METERS

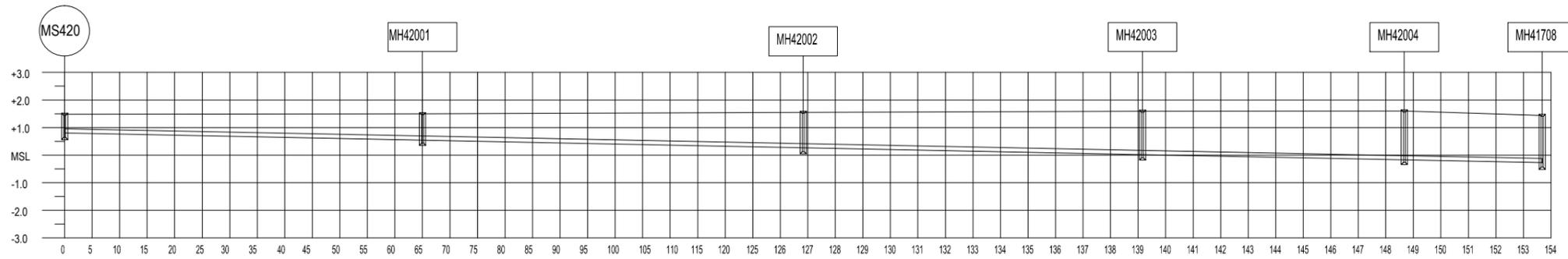
MH41706	MH41707	MH41708	MH40401
1.40	1.43	1.44	1.44
-0.34	-0.60	-0.80	-0.96
1.74	2.03	2.24	2.40
48.56	66.67	49.87	37.94
0.004	0.004	0.004	0.004
150mm	150mm	150mm	150mm

CATCHMENT 04

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.15
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
			Date:	28.Mar.2016						
			Scale:	As given						



PROFILE-20



LENGTH IN METERS

Manhole No	MS420	MH42001	MH42002	MH42003	MH42004	MH41708
Ground Level (from MSL)	1.48	1.50	1.55	1.59	1.60	1.44
Invert Level	0.88	0.62	0.34	0.10	-0.09	-0.19
Depth of Manhole	0.60	0.88	1.21	1.49	1.69	1.63
Distance between Manhole	0.00	65.00	69.13	61.65	47.56	25.03
Pipeslope		0.004	0.004	0.004	0.004	0.004
Pipe diameter		150mm	150mm	150mm	150mm	150mm

CATCHMENT 04

Employer:
MINISTRY OF ENVIRONMENT AND ENERGY
REPUBLIC OF MALDIVES

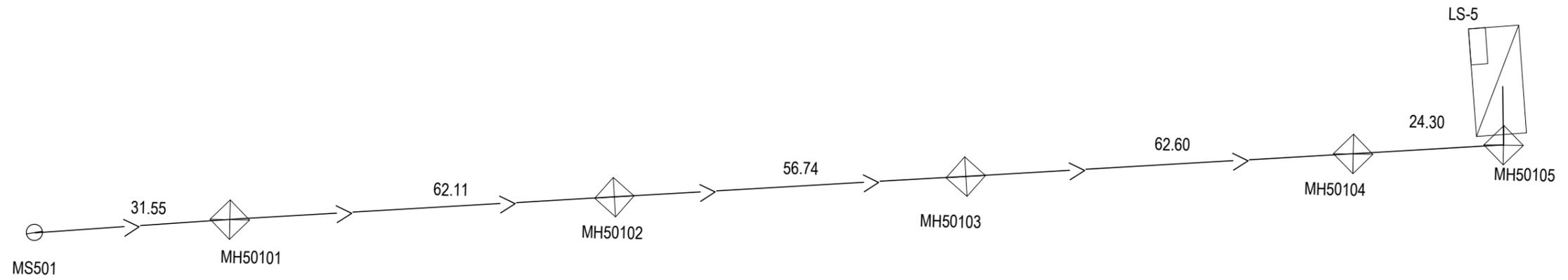
Engineer
MEECO
2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu
Malé, 20129
Republic of Maldives
(+960) 301-0855, (+960) 301-0844
info@meeco.com.mv

Project:
DESIGN CONSULTANCY FOR ADDU
ATOL 5 ISLANDS
SEWERAGE WORKS 2015
ISLAND:
MARADHOO, MARADHOO
FEYDHOO & FEYDHOO

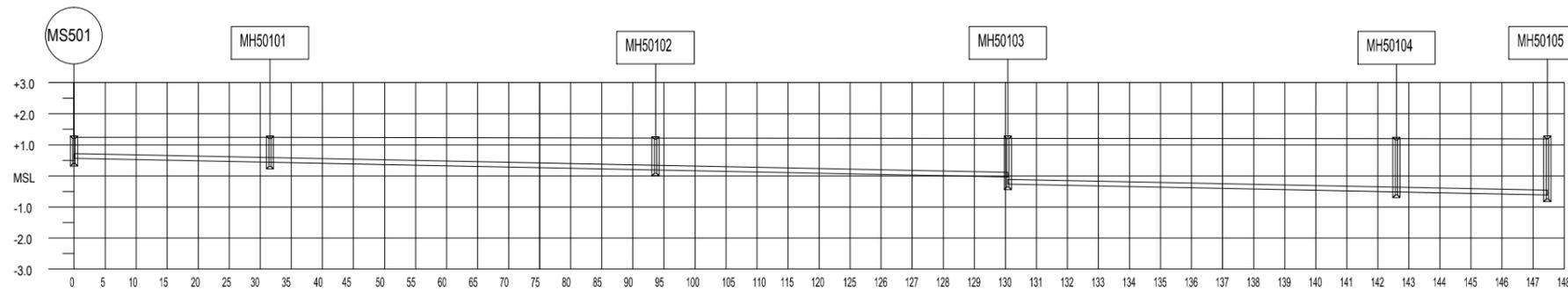
Drawing Title:
AS GIVEN

Legends:

Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
	-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.16
			Structural Design by:	Hassain Nihad	
			Checked by:	Hussain Shaheed	Sheet No.
			Date:	28.Mar.2016	
			Scale:	As given	



PROFILE-01



LENGTH IN METERS

Manhole No	MS501	MH50101	MH50102	MH50103	MH50104	MH50105
Ground Level (from MSL)	1.24	1.24	1.22	1.21	1.20	1.19
Invert Level	0.64	0.51	0.27	-0.19	-0.44	-0.54
Depth of Manhole	0.60	0.73	0.95	1.40	1.64	1.73
Distance between Manhole	0.00	31.55	62.11	56.74	62.60	24.30
Pipeslope		0.004	0.004	0.004	0.004	0.004
Pipe diameter		150mm	150mm	150mm	150mm	150mm

CATCHMENT 05

Employer:
MINISTRY OF ENVIRONMENT AND ENERGY
REPUBLIC OF MALDIVES

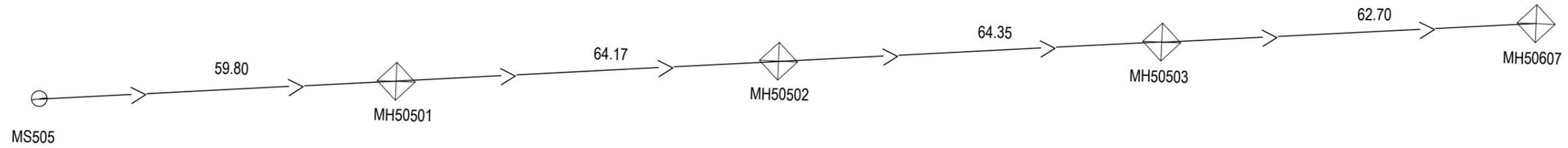
Engineer
MEECO
2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu
Malé, 20129
Republic of Maldives
(+960) 301-0855, (+960) 301-0844
info@meeco.com.mv

Project:
DESIGN CONSULTANCY FOR ADDU
ATOL 5 ISLANDS
SEWERAGE WORKS 2015
ISLAND:
MARADHOO, MARADHOO
FEYDHOO & FEYDHOO

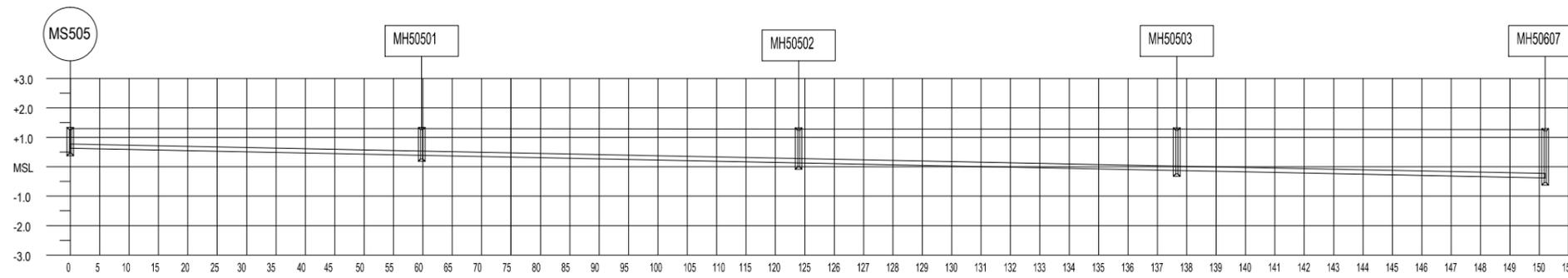
Drawing Title:
AS GIVEN

Legends:

Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
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			Structural Design by:	Hassan Nihad	
			Checked by:	Hussain Shaheed	Sheet No.
			Date:	28.Mar.2016	
			Scale:	As given	



PROFILE-05

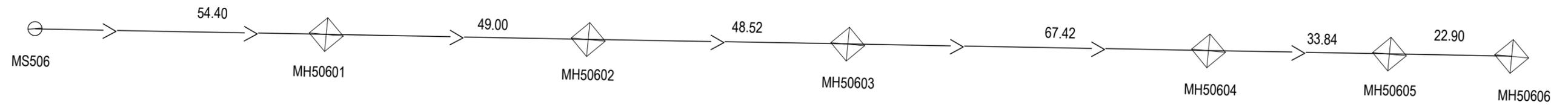


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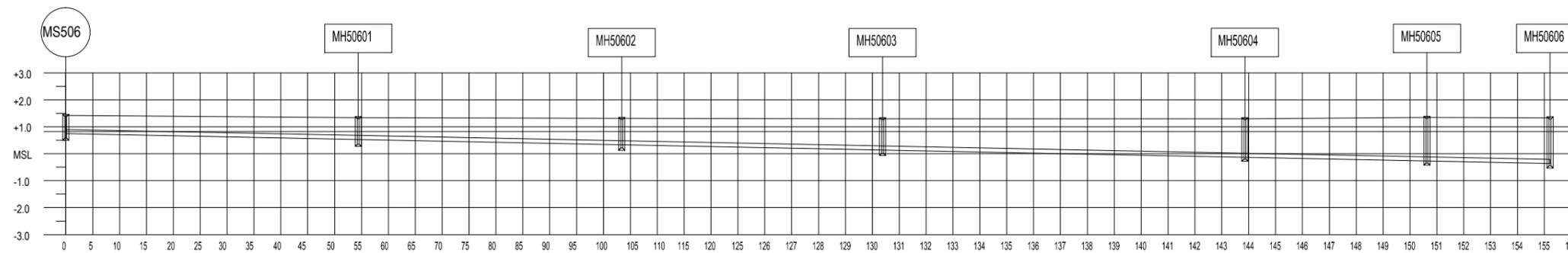
Manhole No	MS505	MH50501	MH50502	MH50503	MH50607
Ground Level (from MSL)	1.30	1.30	1.29	1.28	1.26
Invert Level	0.70	0.46	0.20	-0.05	-0.30
Depth of Manhole	0.60	0.84	1.09	1.33	1.56
Distance between Manhole	0.00	59.80	64.17	64.35	62.70
Pipeslope		0.004	0.004	0.004	0.004
Pipe diameter		150mm	150mm	150mm	150mm

CATCHMENT 05

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.18
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
								Date:	28.Mar.2016	
			Scale:	As given						



PROFILE-06

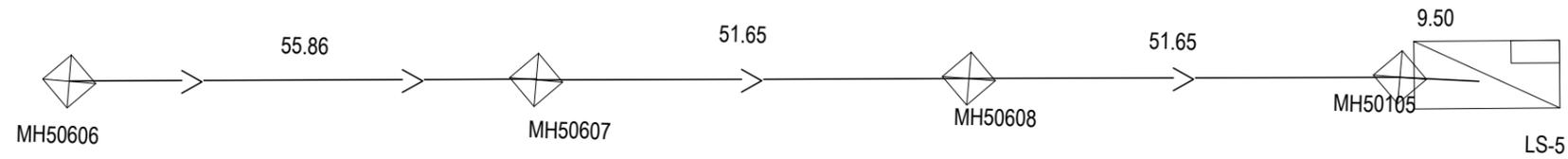


LENGTH IN METERS

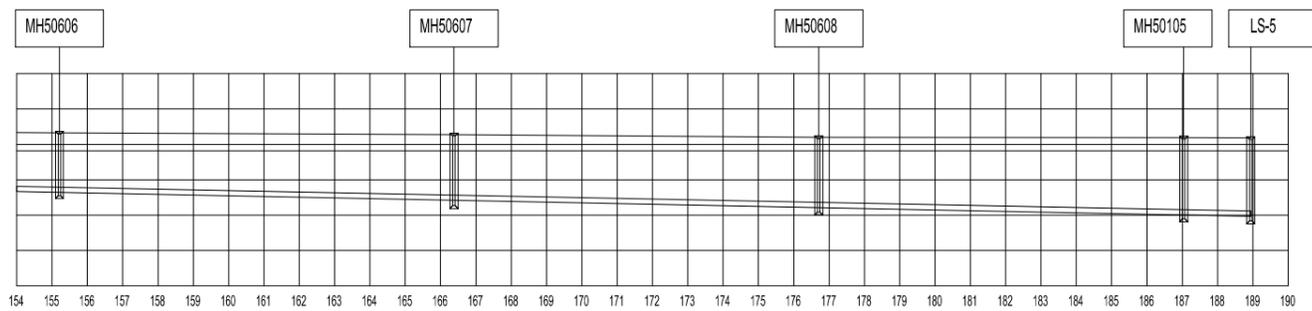
Manhole No	MS506	MH50601	MH50602	MH50603	MH50604	MH50605	MH50606	MH50607	MH50608	MH50105	LS-5
Ground Level (from MSL)	1.42	1.34	1.31	1.29	1.30	1.35	1.33	1.28	1.20	1.19	1.18
Invert Level	0.82	0.60	0.41	0.21	-0.06	-0.19	-0.28	-0.51	-0.71	-0.92	-0.96
Depth of Manhole	0.60	0.74	0.90	1.08	1.36	1.54	1.61	1.79	1.91	2.11	2.14
Distance between Manhole	0.00	54.40	49.00	48.52	67.42	33.84	22.90	55.86	51.65	51.65	9.50
Pipeslope		0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Pipe diameter		150mm	150mm								

CATCHMENT 05

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.19
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
			Date:	28.Mar.2016						
			Scale:	As given						



PROFILE-06

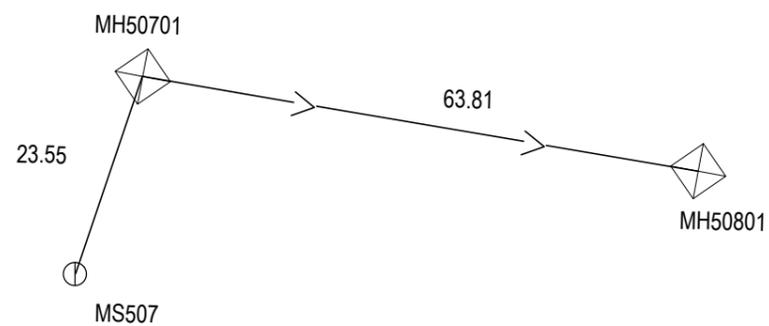


LENGTH IN METERS

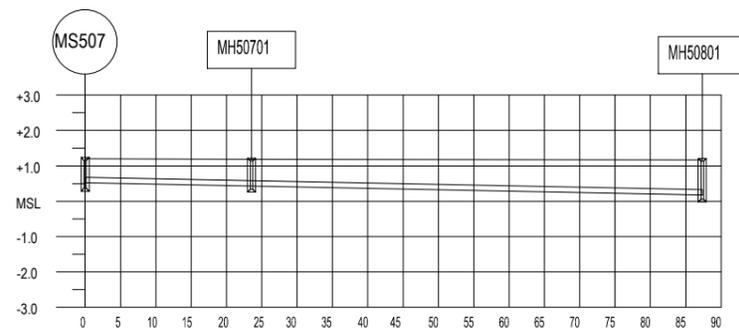
Manhole No	MS506	MH50601	MH50602	MH50603	MH50604	MH50605	MH50606	MH50607	MH50608	MH50105	LS-5
Ground Level (from MSL)	1.42	1.34	1.31	1.29	1.30	1.35	1.33	1.28	1.20	1.19	1.18
Invert Level	0.82	0.60	0.41	0.21	-0.06	-0.19	-0.28	-0.51	-0.71	-0.92	-0.96
Depth of Manhole	0.60	0.74	0.90	1.08	1.36	1.54	1.61	1.79	1.91	2.11	2.14
Distance between Manhole	0.00	54.40	49.00	48.52	67.42	33.84	22.90	55.86	51.65	51.65	9.50
Pipeslope		0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Pipe diameter		150mm	150mm								

CATCHMENT 05

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.20
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
			Date:	28.Mar.2016						
			Scale:	As given						



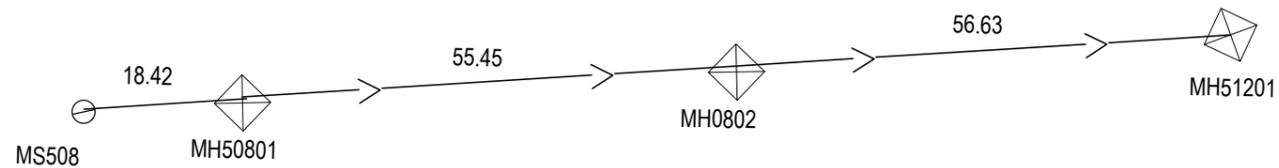
PROFILE-07



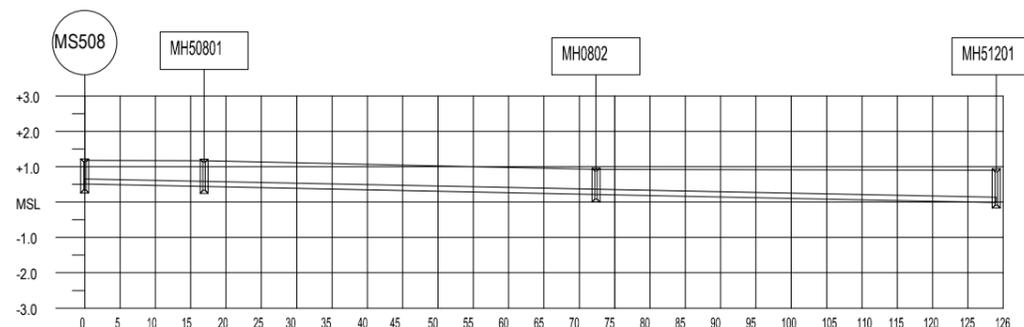
LENGTH IN METERS

Manhole No	MS507	MH50701	MH50801
Ground Level (from MSL)	1.20	1.18	1.17
Invert Level	0.60	0.51	0.25
Depth of Manhole	0.60	0.67	0.92
Distance between Manhole	0.00	23.55	63.81
Pipeslope		0.004	0.004
Pipe diameter		150mm	150mm

CATCHMENT 05



PROFILE-08

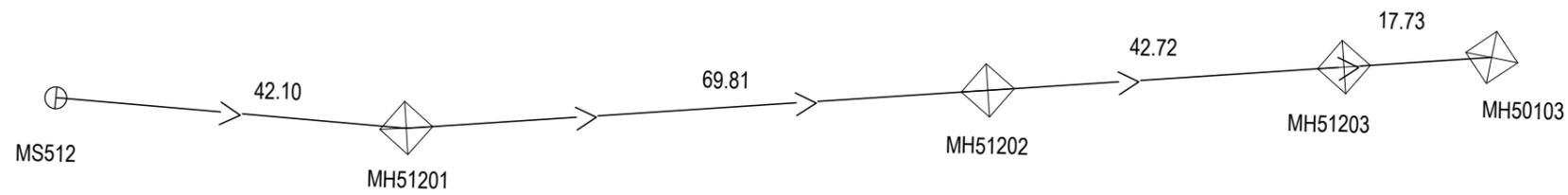


LENGTH IN METERS

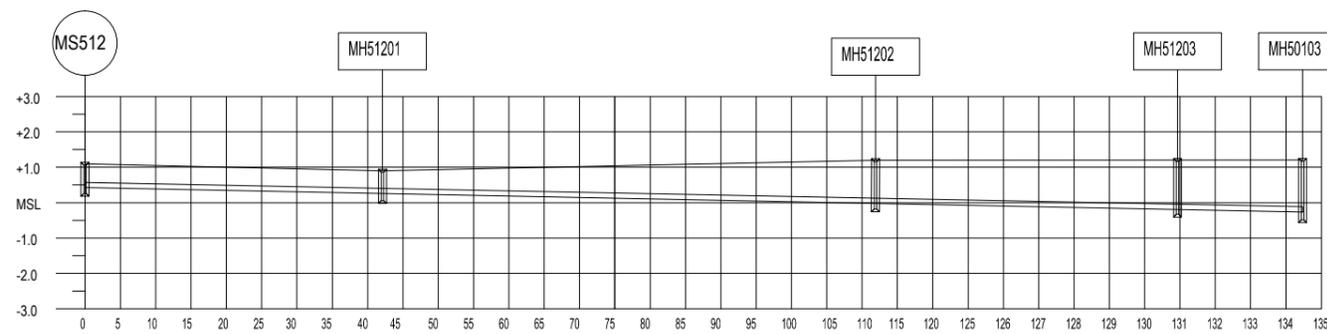
Manhole No	MS508	MH50801	MH0802	MH51201
Ground Level (from MSL)	1.18	1.17	0.92	0.90
Invert Level	0.58	0.51	0.28	0.06
Depth of Manhole	0.60	0.66	0.64	0.84
Distance between Manhole	0.00	18.42	55.45	56.63
Pipeslope		0.004	0.004	0.004
Pipe diameter		150mm	150mm	150mm

CATCHMENT 05

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev Date Notes by Engineer:	Drawn by: Ahmed A.Saththaru	Drawing No. MA-SW-106.21
					- - -	Hydraulic Designed by: Hussain Shaheed	Sheet No.
					- - -	Structural Design by: Hassan Nihad	
					- - -	Checked by: Hussain Shaheed	
					- - -	Date: 28.Mar.2016	
- - -	Scale: As given						



PROFILE-12



LENGTH IN METERS

Manhole No	MS512	MH51201	MH51202	MH51203	MH50103
Ground Level (from MSL)	1.10	0.90	1.20	1.21	1.21
Invert Level	0.50	0.33	0.05	-0.12	-0.19
Depth of Manhole	0.60	0.57	1.15	1.33	1.40
Distance between Manhole	0.00	42.10	69.81	42.72	17.73
Pipeslope		0.004	0.004	0.004	0.004
Pipe diameter		150mm	150mm	150mm	150mm

CATCHMENT 05

Employer: MINISTRY OF ENVIRONMENT AND ENERGY REPUBLIC OF MALDIVES	Engineer  2nd Floor, Aakakaage-1, Galolhu, Alikilegefaanu Magu Malé, 20129 Republic of Maldives (+960) 301-0855, (+960) 301-0844 info@meeco.com.mv	Project: DESIGN CONSULTANCY FOR ADDU ATOL 5 ISLANDS SEWERAGE WORKS 2015 ISLAND: MARADHOO, MARADHOO FEYDHOO & FEYDHOO	Drawing Title: AS GIVEN	Legends:	Rev	Date	Notes by Engineer:	Drawn by:	Ahmed A.Saththaru	Drawing No.
						-		Hydraulic Designed by:	Hussain Shaheed	MA-SW-106.22
								Structural Design by:	Hassan Nihad	
								Checked by:	Hussain Shaheed	Sheet No.
								Date:	28.Mar.2016	
			Scale:	As given						