

Conor Phillips
CSEA Consulting
Seafort Lodge
Castledawson Avenue
Blackrock
Co. Dublin

16 June 2022

Re: Design Submission for Barnhill, Dublin 15, Co. Dublin (the “Development”) (the “Design Submission”) / 2340790475.

Dear Conor Phillips,

Many thanks for your recent Design Submission.

We have reviewed your proposal for the connection(s) at the Development. Based on the information provided, which included the documents outlined in Appendix A to this letter, Irish Water has no objection to your proposals.


This letter does not constitute an offer, in whole or in part, to provide a connection to any Irish Water infrastructure. Before you can connect to our network you must sign a connection agreement with Irish Water. This can be applied for by completing the connection application form at www.water.ie/connections. Irish Water’s current charges for water and wastewater connections are set out in the Water Charges Plan as approved by the Commission for Regulation of Utilities (CRU) (https://www.cru.ie/document_group/irish-waters-water-charges-plan-2018/).

You the Customer (including any designers/contractors or other related parties appointed by you) is entirely responsible for the design and construction of all water and/or wastewater infrastructure within the Development which is necessary to facilitate connection(s) from the boundary of the Development to Irish Water’s network(s) (the “**Self-Lay Works**”), as reflected in your Design Submission. Acceptance of the Design Submission by Irish Water does not, in any way, render Irish Water liable for any elements of the design and/or construction of the Self-Lay Works.

If you have any further questions, please contact your Irish Water Representative

Name: Dario Alvarez
Email: dalvarez@water.ie

Yours sincerely,



Yvonne Harris

Head of Customer Operations

Appendix A

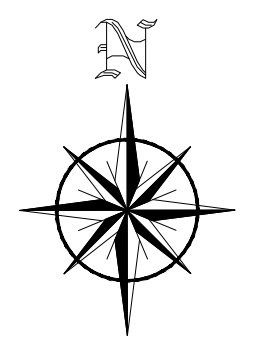
Document Title & Revision

- 16_053_00_1035 - Proposed Barnhill LAP Watermain Layout - June 2022
- 16_053_00_1037 - Proposed Barnhill LAP Combined Foul & Surface Water Sewer Layout - June 2022
- 16_053_00_1045 - Proposed Barnhill LAP Foul Longsections - Sheet 1 to 8

Standard Details/Code of Practice Exemption: N/A

For further information, visit www.water.ie/connections

Notwithstanding any matters listed above, the Customer (including any appointed designers/contractors, etc.) is entirely responsible for the design and construction of the Self-Lay Works. Acceptance of the Design Submission by Irish Water will not, in any way, render Irish Water liable for any elements of the design and/or construction of the Self-Lay Works.



PROPOSED 110mm OUTSIDE DIAMETER SDR 17 PE WATERMAIN TO CONNECT TO FUTURE 110mm ø PE WATERMAIN (CONSTRUCTED AS PART OF THE ONGAR DISTRIBUTOR ROAD SCHEME) AT THIS LOCATION

PROPOSED 225mm OUTSIDE DIAMETER SDR 17 PE WATERMAIN TO CONNECT TO FUTURE 225mm ø PE WATERMAIN (CONSTRUCTED AS PART OF THE ONGAR DISTRIBUTOR ROAD SCHEME) AT THIS LOCATION

PROPOSED 225mm OUTSIDE DIAMETER SDR 17 PE WATERMAIN TO CONNECT TO FUTURE 225mm ø PE WATERMAIN (CONSTRUCTED AS PART OF THE ONGAR DISTRIBUTOR ROAD SCHEME) AT THIS LOCATION

PROPOSED 110mm OUTSIDE DIAMETER SDR 17 PE WATERMAIN TO CONNECT TO FUTURE 110mm ø PE WATERMAIN (CONSTRUCTED AS PART OF THE ONGAR DISTRIBUTOR ROAD SCHEME) AT THIS LOCATION

PROPOSED 110mm OUTSIDE DIAMETER SDR 17 PE WATERMAIN TO CONNECT TO FUTURE 110mm ø PE WATERMAIN (CONSTRUCTED AS PART OF THE ONGAR DISTRIBUTOR ROAD SCHEME) AT THIS LOCATION

PROPOSED 225mm OUTSIDE DIAMETER SDR 17 PE WATERMAIN TO CONNECT TO FUTURE 225mm ø PE WATERMAIN (CONSTRUCTED AS PART OF THE ONGAR DISTRIBUTOR ROAD SCHEME) AT THIS LOCATION

PROPOSED 160mm OUTSIDE DIAMETER SDR 17 PE WATERMAIN TO ALLOW FOR CONNECTION TO PROPOSED FOUL PUMPING STATION

PROPOSED WATERMAIN LEGEND:

- PROPOSED 110mm OUTSIDE ø SDR 17 PE WATERMAIN
- PROPOSED 160mm OUTSIDE ø SDR 17 PE WATERMAIN
- PROPOSED 225mm OUTSIDE ø SDR 17 PE WATERMAIN
- PROPOSED WATERMAIN CONNECTION TO UNITS WITH BOUNDARY BOX
- PROPOSED AIR VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED SLUICE VALVE
- PROPOSED SCOUR VALVE
- PROPOSED WATER METER

EXISTING WATERMAIN LEGEND:

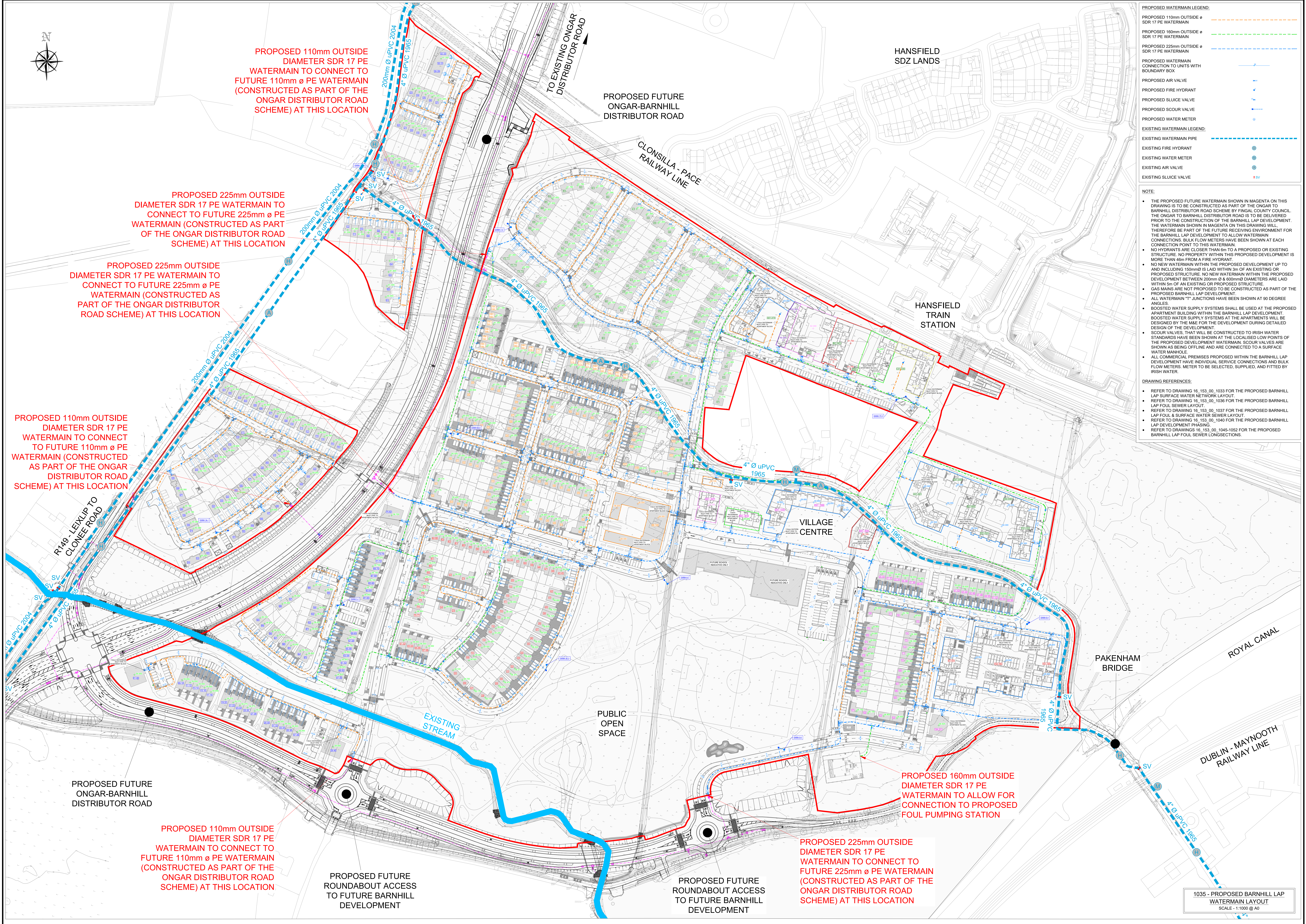
- EXISTING WATERMAIN PIPE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING AIR VALVE
- EXISTING SLUICE VALVE

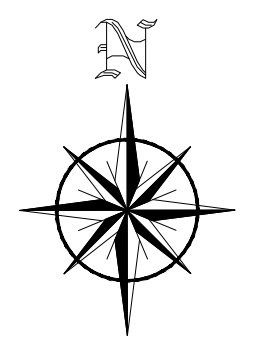
NOTE:

- THE PROPOSED FUTURE WATERMAIN SHOWN IN MAGENTA ON THIS DRAWING IS TO BE CONSTRUCTED AS PART OF THE ONGAR TO BARNHILL DISTRIBUTOR ROAD SCHEME BY FINCH COUNTY COUNCIL. THE ONGAR TO BARNHILL DISTRIBUTOR ROAD IS TO BE DELIVERED PRIOR TO THE CONSTRUCTION OF THE BARNHILL LAP DEVELOPMENT. THE WATERMAIN SHOWN IN MAGENTA ON THIS DRAWING WILL THEREFORE BE PART OF THE FUTURE RECEIVING ENVIRONMENT FOR THE BARNHILL LAP DEVELOPMENT TO ALLOW WATERMAIN CONNECTIONS. BULK FLOW METERS HAVE BEEN SHOWN AT EACH CONNECTION POINT TO THIS WATERMAIN.
- NO HYDRANTS ARE CLOSER THAN 6m TO A PROPOSED OR EXISTING STRUCTURE. NO PROPERTY WITHIN THIS PROPOSED DEVELOPMENT IS MORE THAN 46m FROM A FIRE HYDRANT.
- NO NEW WATERMAIN WITHIN THE PROPOSED DEVELOPMENT UP TO AND INCLUDING 150mm ø IS LAID WITHIN 3m OF AN EXISTING OR PROPOSED STRUCTURE. NO NEW WATERMAIN WITHIN THE PROPOSED DEVELOPMENT BETWEEN 200mm ø & 600mm ø DIAMETERS ARE LAID WITHIN 6m OF AN EXISTING OR PROPOSED STRUCTURE.
- GAS MAINS ARE NOT PROPOSED TO BE CONSTRUCTED AS PART OF THE PROPOSED BARNHILL LAP DEVELOPMENT.
- ALL WATERMAIN JUNCTIONS HAVE BEEN SHOWN AT 90 DEGREE ANGLES.
- BOOSTED WATER SUPPLY SYSTEMS SHALL BE USED AT THE PROPOSED APARTMENT BUILDING WITHIN THE BARNHILL LAP DEVELOPMENT. BOOSTED WATER SUPPLY SYSTEMS AT THE APARTMENTS WILL BE DESIGNED BY THE M&E FOR THE DEVELOPMENT DURING DETAILED DESIGN OF THE DEVELOPMENT.
- SCOUR VALVES THAT WILL BE CONSTRUCTED TO IRISH WATER STANDARDS HAVE BEEN SHOWN AT THE LOCALISED LOW POINTS OF THE PROPOSED DEVELOPMENT WATERMAIN. SCOUR VALVES ARE SHOWN AS BEING OFFLINE AND ARE CONNECTED TO A SURFACE WATER MANHOLE.
- ALL COMMERCIAL PREMISES PROPOSED WITHIN THE BARNHILL LAP DEVELOPMENT HAVE INDIVIDUAL SERVICE CONNECTIONS AND BULK FLOW METERS. METER TO BE SELECTED, SUPPLIED, AND FITTED BY IRISH WATER.

DRAWING REFERENCES:

- REFER TO DRAWING 16_153_00_1033 FOR THE PROPOSED BARNHILL LAP SURFACE WATER NETWORK LAYOUT.
- REFER TO DRAWING 16_153_00_1036 FOR THE PROPOSED BARNHILL LAP FOUL SEWER LAYOUT.
- REFER TO DRAWING 16_153_00_1037 FOR THE PROPOSED BARNHILL LAP FOUL & SURFACE WATER SEWER LAYOUT.
- REFER TO DRAWING 16_153_00_1040 FOR THE PROPOSED BARNHILL LAP DEVELOPMENT PHASING.
- REFER TO DRAWINGS 16_153_00_1045-1052 FOR THE PROPOSED BARNHILL LAP FOUL SEWER LONGSECTIONS.





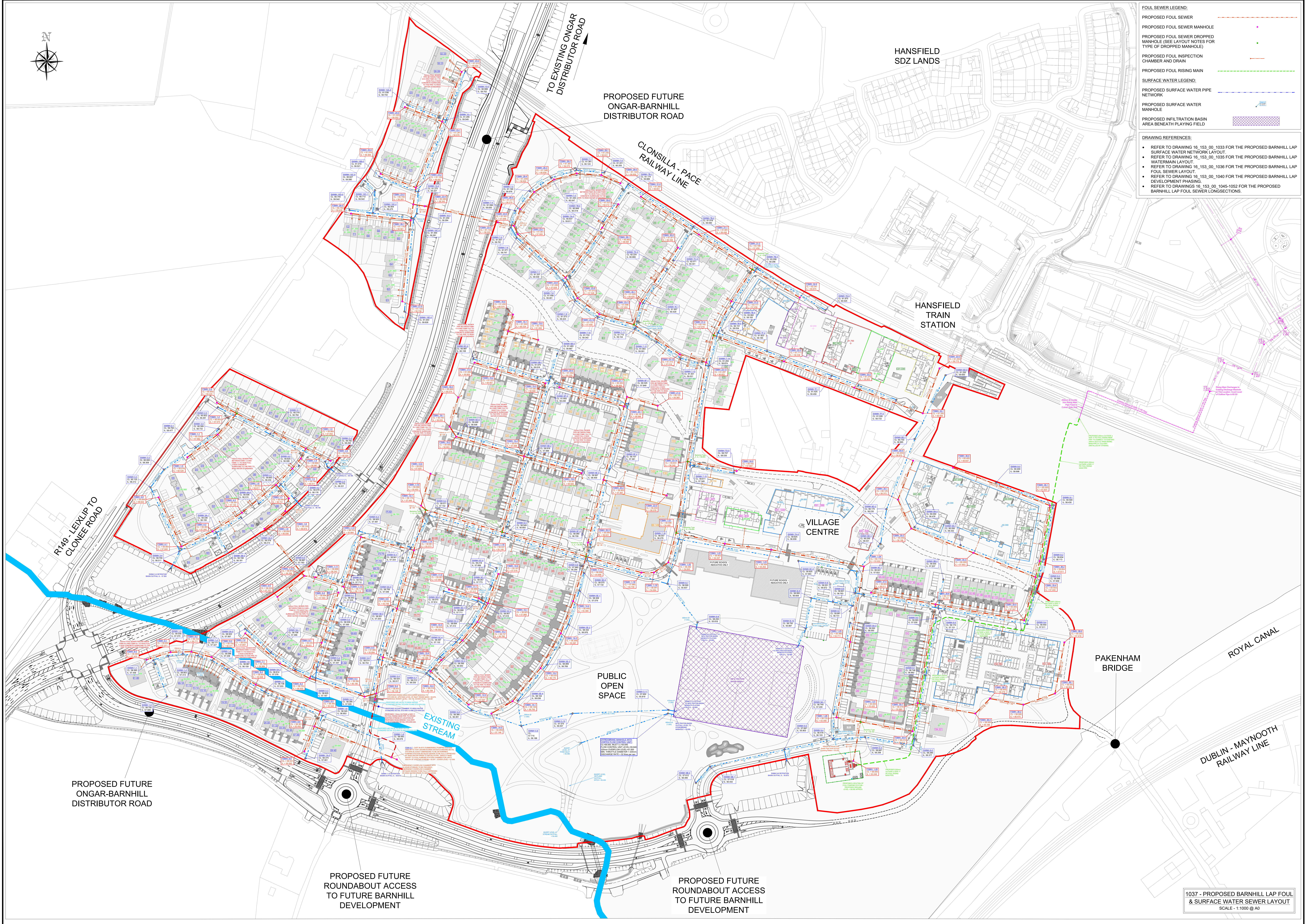
FOUL SEWER LEGEND:

- PROPOSED FOUL SEWER ---
- PROPOSED FOUL SEWER MANHOLE ●
- PROPOSED FOUL SEWER DROPPED MANHOLE (SEE LAYOUT NOTES FOR TYPE OF DROPPED MANHOLE) ●
- PROPOSED FOUL INSPECTION CHAMBER AND DRAIN —
- PROPOSED FOUL RISING MAIN ---

SURFACE WATER LEGEND:

- PROPOSED SURFACE WATER PIPE NETWORK ---
- PROPOSED SURFACE WATER MANHOLE ●
- PROPOSED INFILTRATION BASIN AREA BENEATH PLAYING FIELD

- DRAWING REFERENCES:**
- REFER TO DRAWING 16_153_00_1033 FOR THE PROPOSED BARNHILL LAP SURFACE WATER NETWORK LAYOUT
 - REFER TO DRAWING 16_153_00_1035 FOR THE PROPOSED BARNHILL LAP WATERMAIN LAYOUT
 - REFER TO DRAWING 16_153_00_1036 FOR THE PROPOSED BARNHILL LAP FOUL SEWER LAYOUT
 - REFER TO DRAWING 16_153_00_1040 FOR THE PROPOSED BARNHILL LAP DEVELOPMENT PHASING
 - REFER TO DRAWINGS 16_153_00_1045-1052 FOR THE PROPOSED BARNHILL LAP FOUL SEWER LONGSECTIONS.

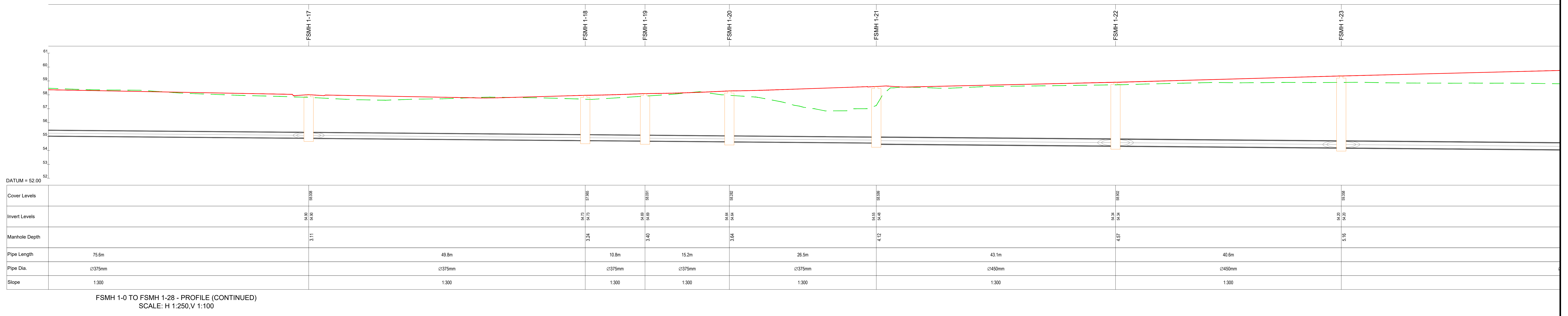
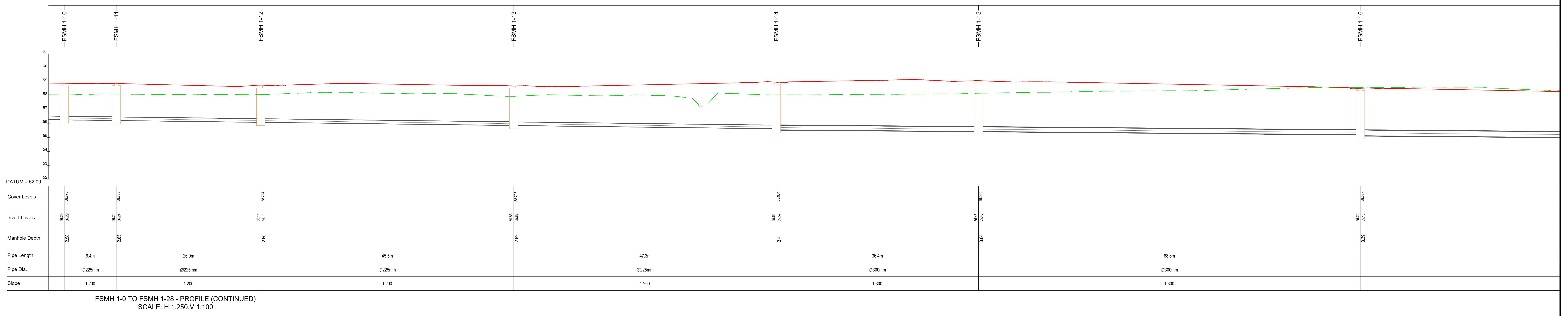
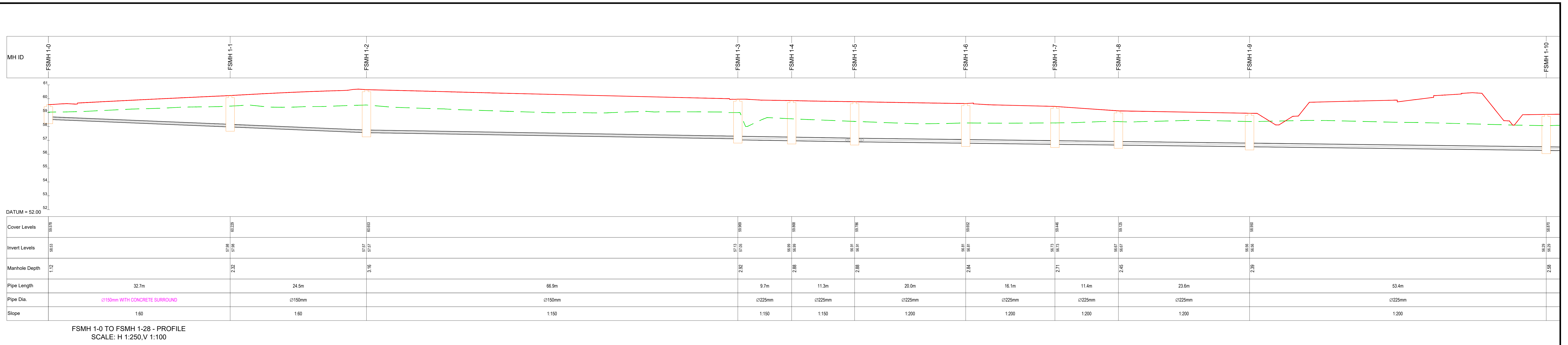


PROPOSED FUTURE ONGAR-BARNHILL DISTRIBUTOR ROAD

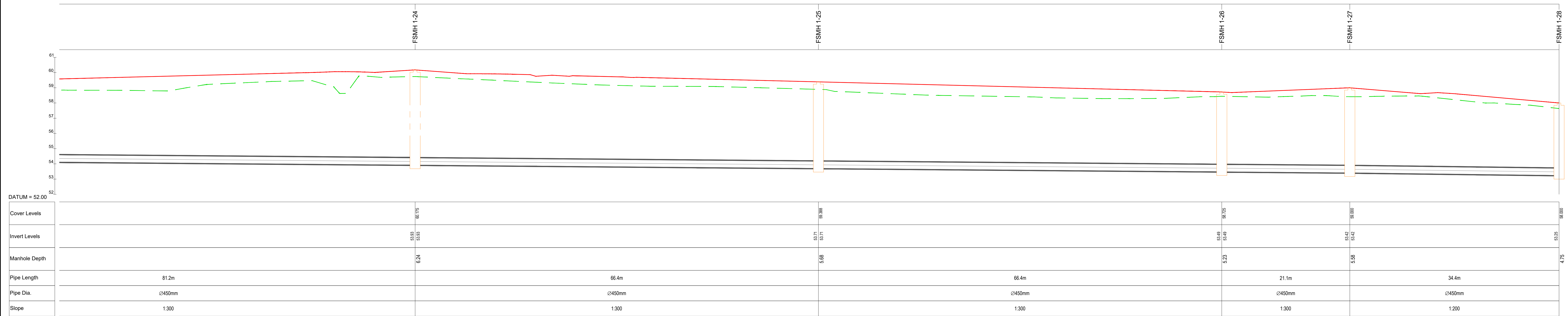
PROPOSED FUTURE ROUNDABOUT ACCESS TO FUTURE BARNHILL DEVELOPMENT

PROPOSED FUTURE ROUNDABOUT ACCESS TO FUTURE BARNHILL DEVELOPMENT

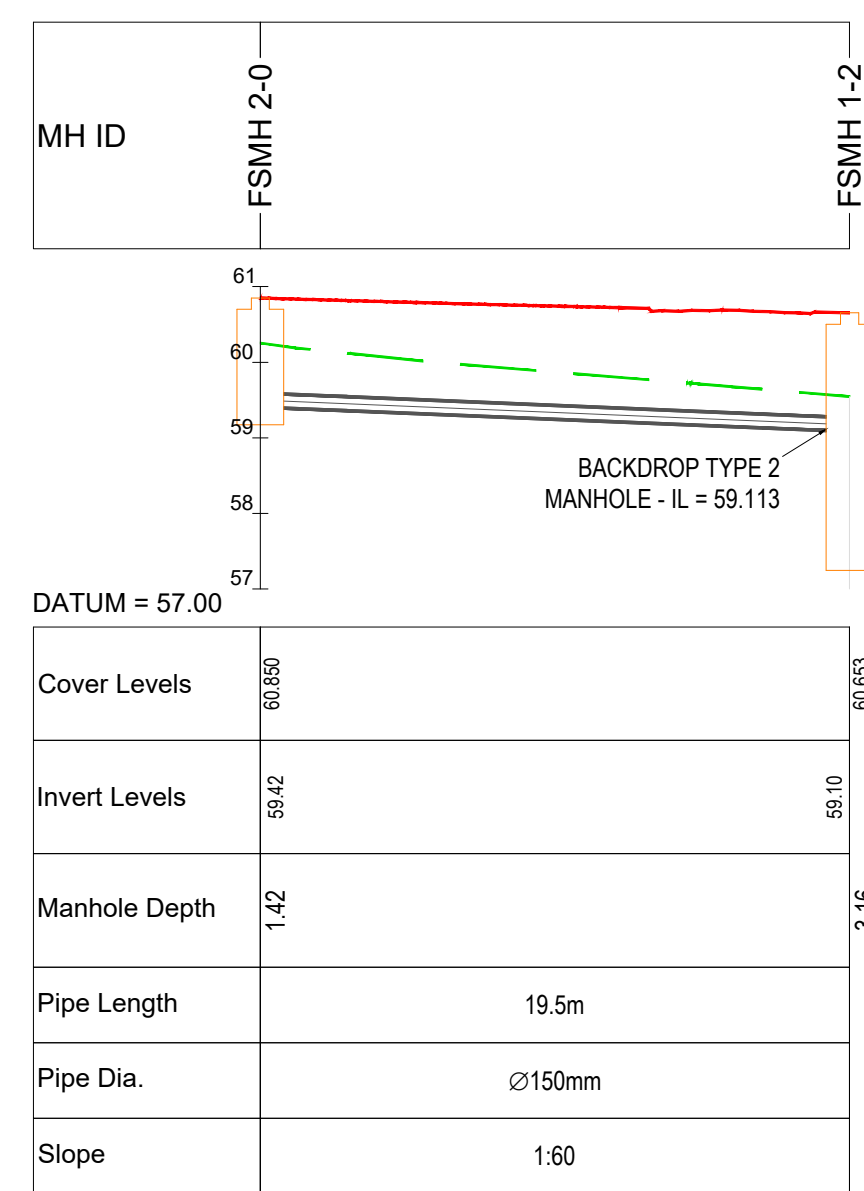
1037 - PROPOSED BARNHILL LAP FOUL & SURFACE WATER SEWER LAYOUT
SCALE - 1:1000 @ A0



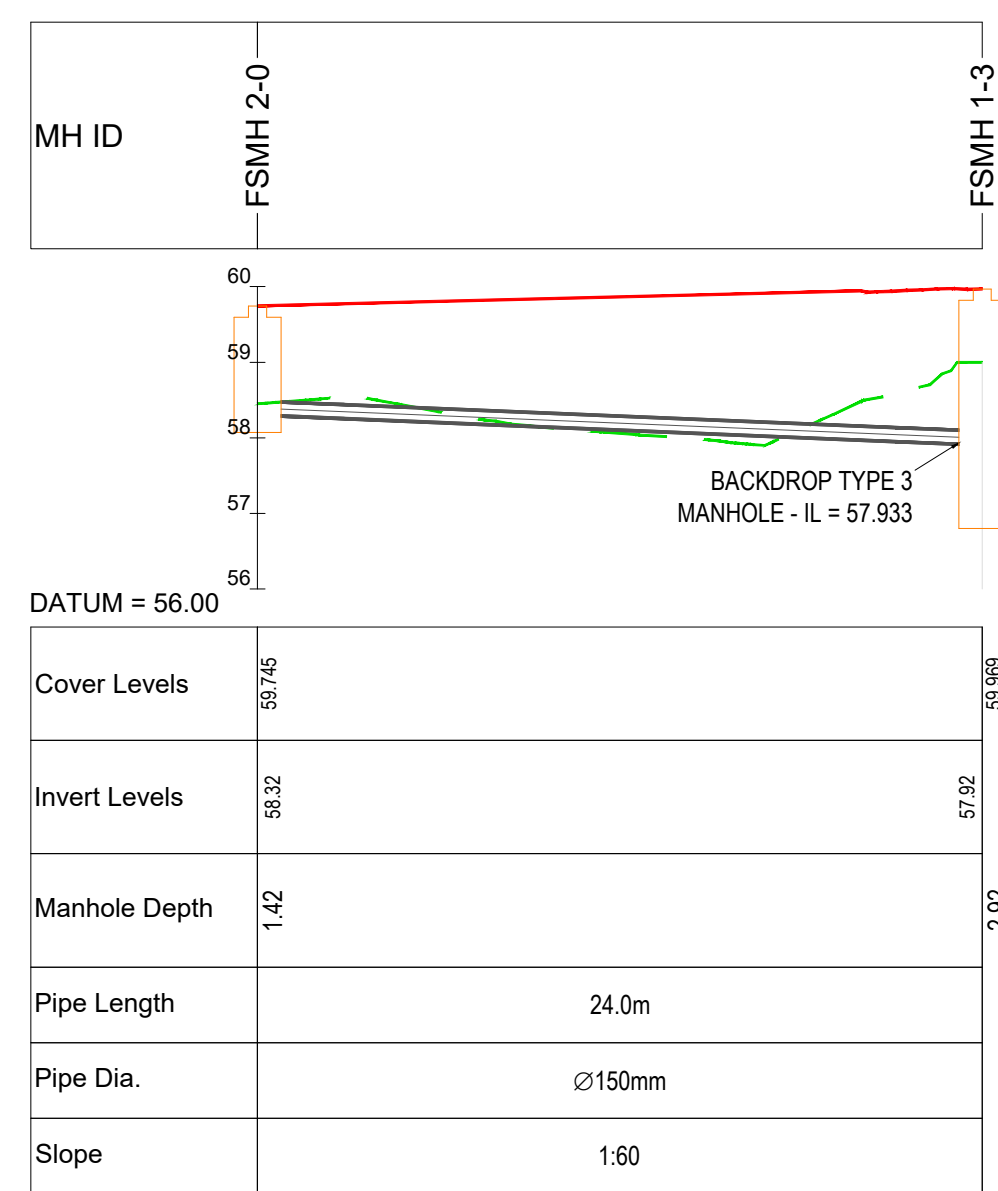
LEGEND:	
EXISTING GROUND PROFILE	-----
PROPOSED GROUND PROFILE	-----
DRAWING REFERENCES:	
• REFER TO DRAWING 16_153_00_1036 FOR THE PROPOSED BARNHILL LAP FOUL SEWER LAYOUT	
1045 - PROPOSED BARNHILL LAP FOUL LONGSECTIONS SHEET 1 OF 8 SCALE - 1:1000 @ A0	



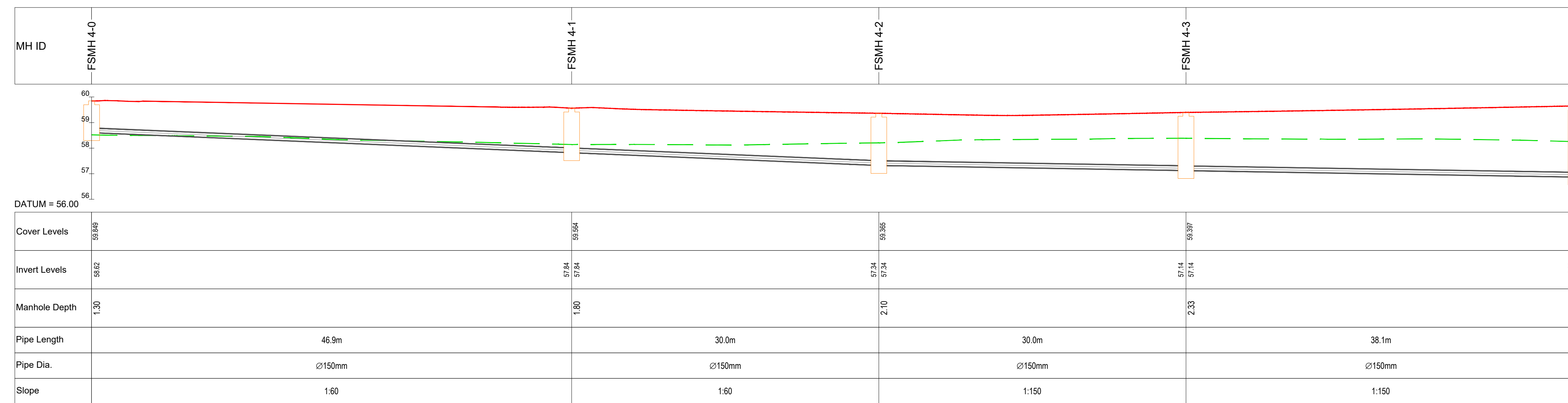
FSMH 1-0 TO FSMH 1-28 - PROFILE (CONTINUED)
SCALE: H 1:250,V 1:100



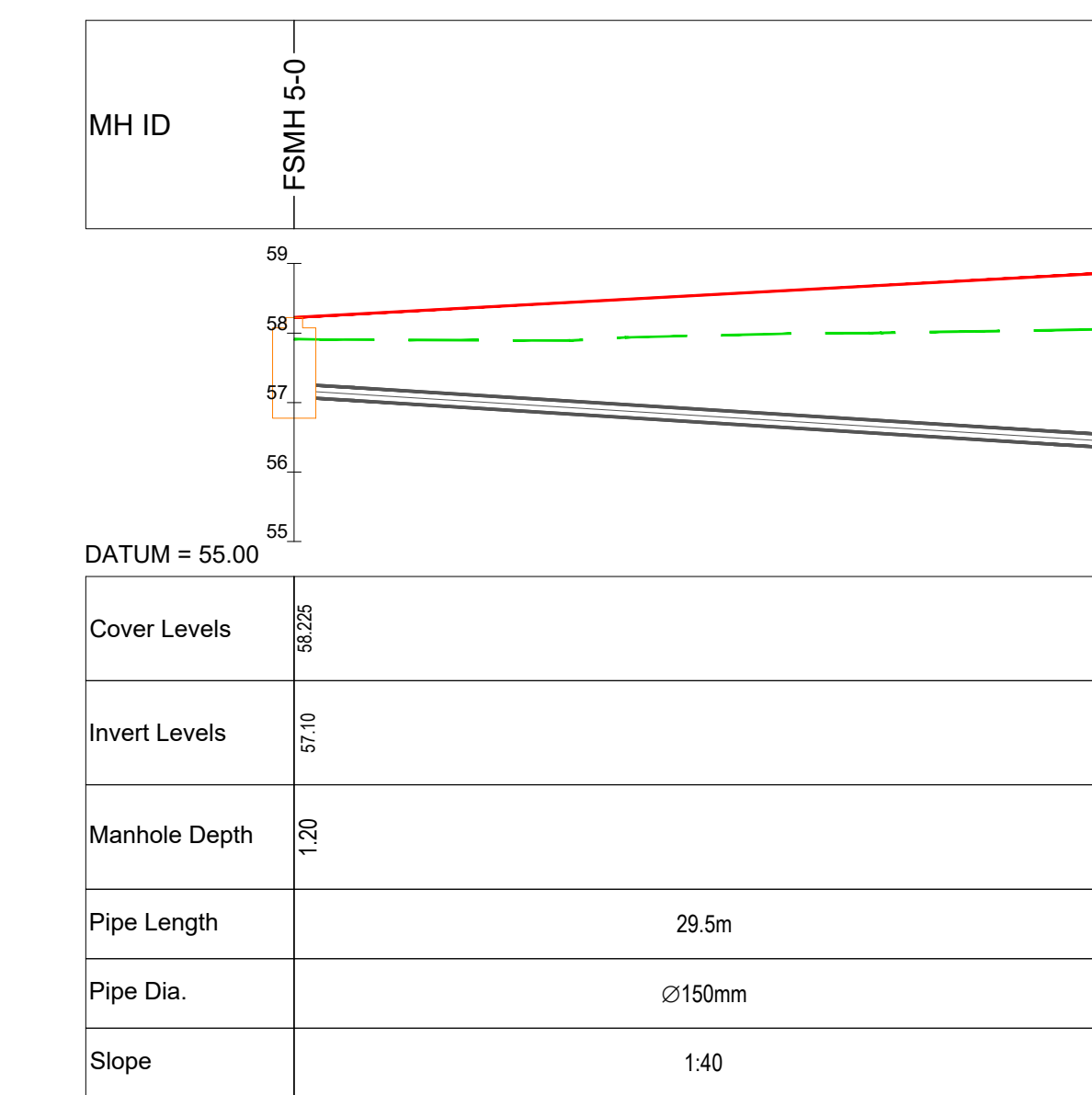
FSMH 2-0 TO FSMH 1-2 - PROFILE
SCALE: H 1:250,V 1:100



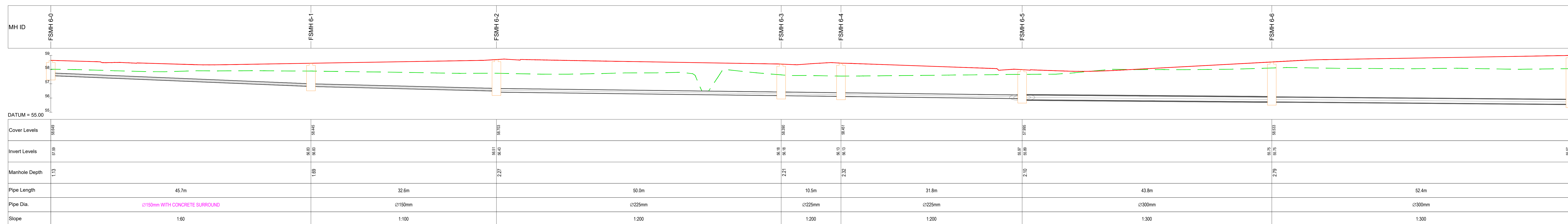
FSMH 3-0 TO FSMH 1-3 - PROFILE
SCALE: H 1:250,V 1:100



FSMH 4-0 TO FSMH 1-6 - PROFILE
SCALE: H 1:250,V 1:100



FSMH 5-0 TO FSMH 1-10 - PROFILE
SCALE: H 1:250,V 1:100

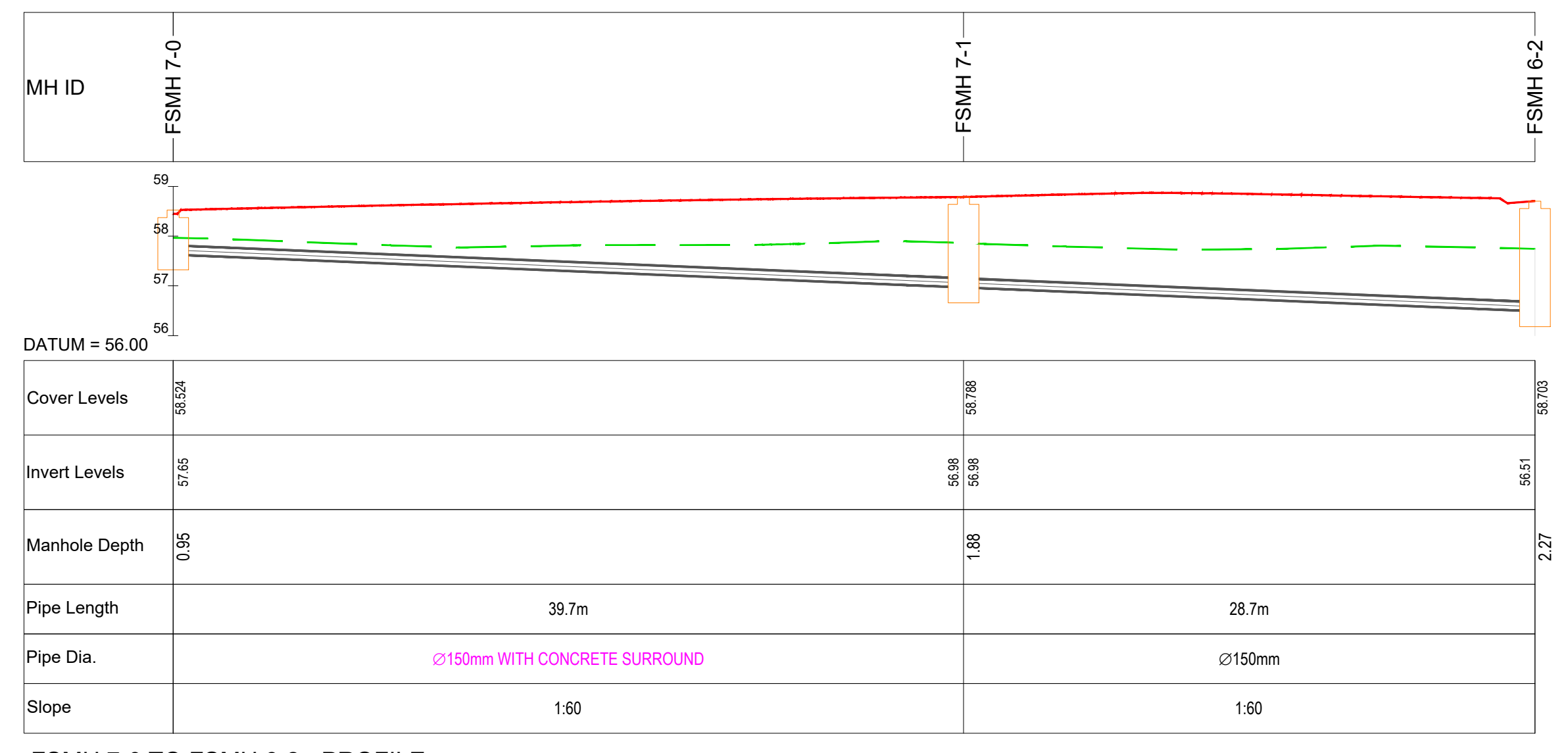


FSMH 6-0 TO FSMH 1-14 - PROFILE
SCALE: H 1:250,V 1:100

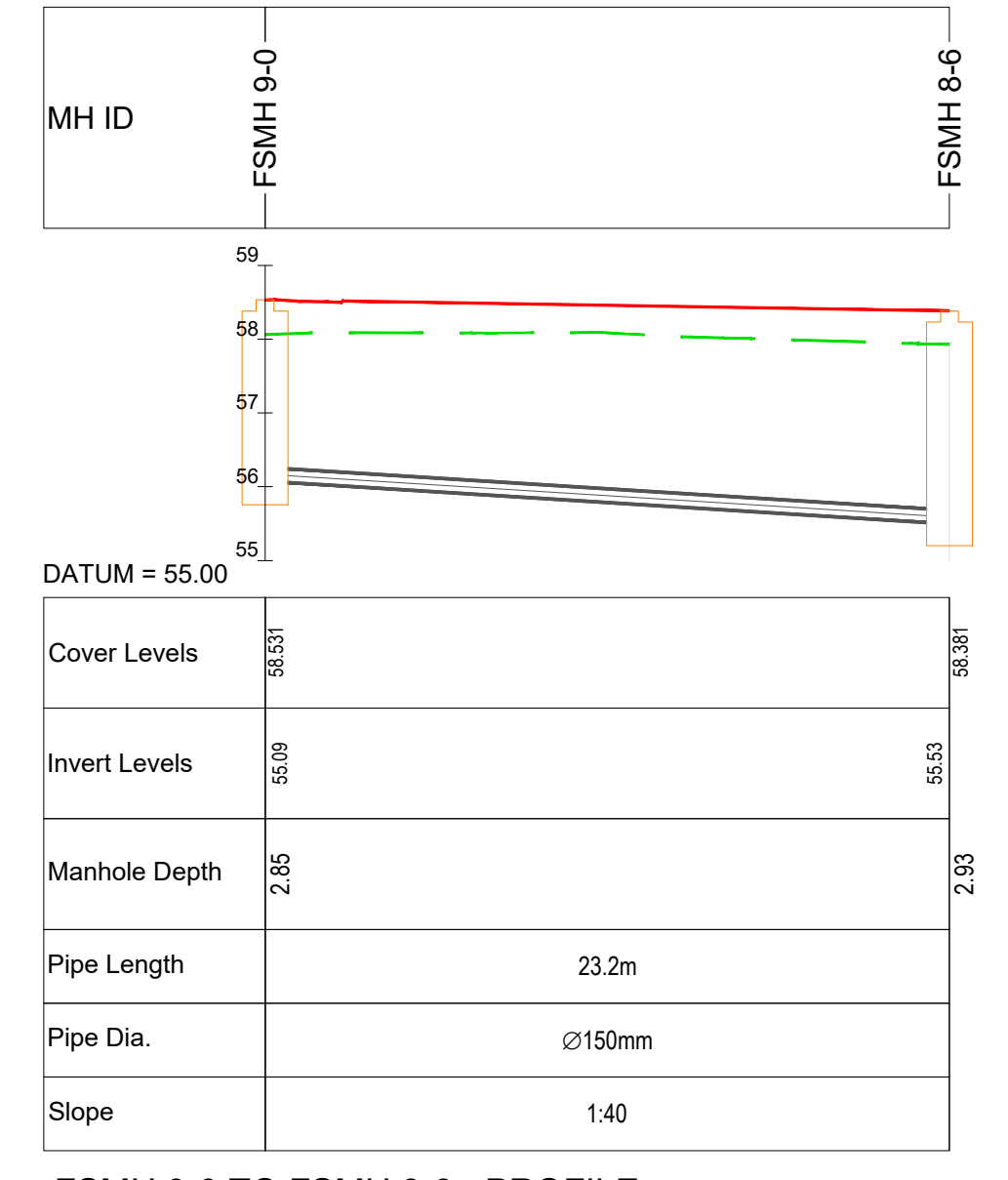
LEGEND:
EXISTING GROUND PROFILE
PROPOSED GROUND PROFILE

DRAWING REFERENCES:
REFER TO DRAWING 16_153_00_1036 FOR THE PROPOSED BARNHILL LAP FOUL SEWER LAYOUT

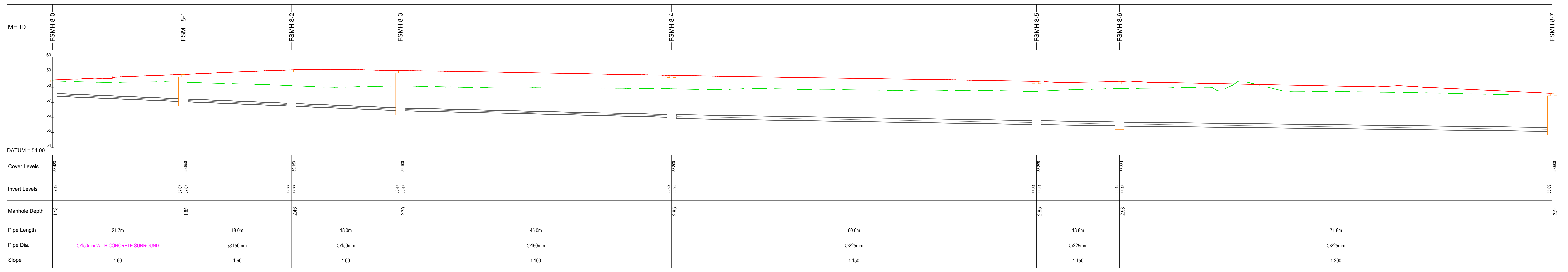
1046 - PROPOSED BARNHILL LAP FOUL LONGSECTIONS SHEET 2 OF 8
SCALE - 1:1000 @ A0



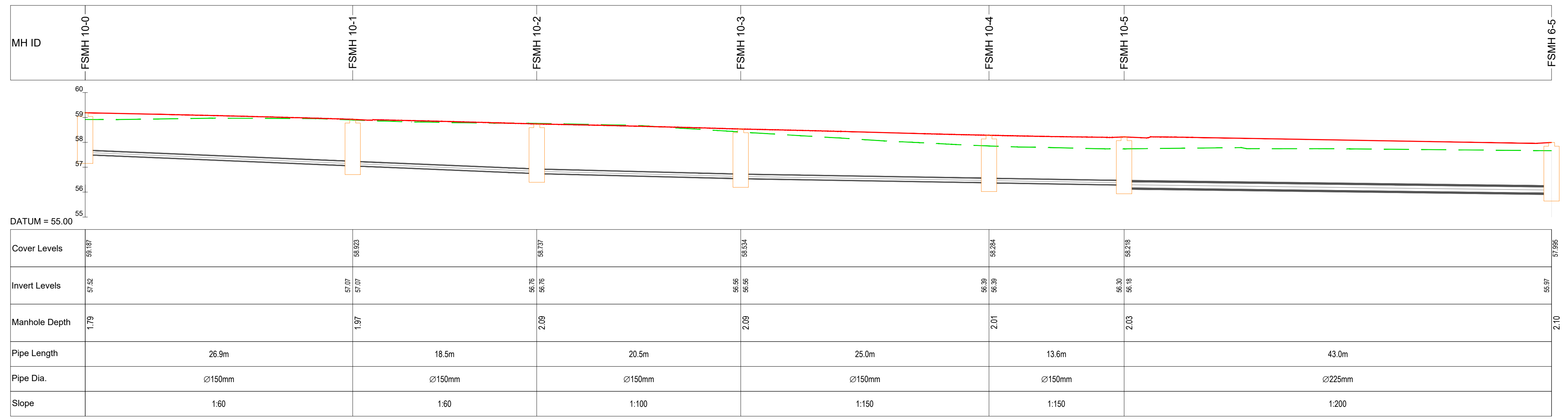
FSMH 7-0 TO FSMH 6-2 - PROFILE
SCALE: H 1:250, V 1:100



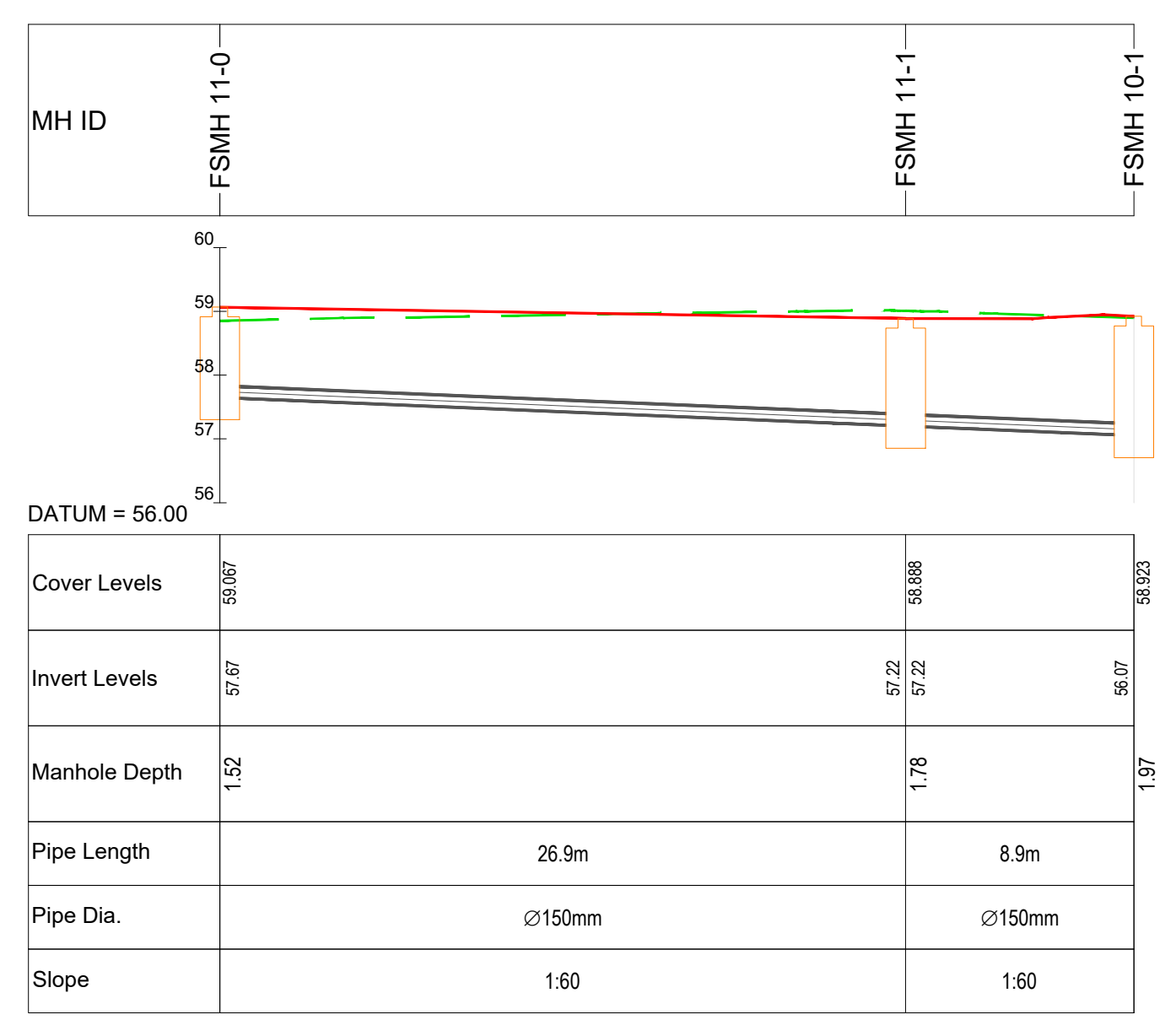
FSMH 9-0 TO FSMH 8-6 - PROFILE
SCALE: H 1:250, V 1:100



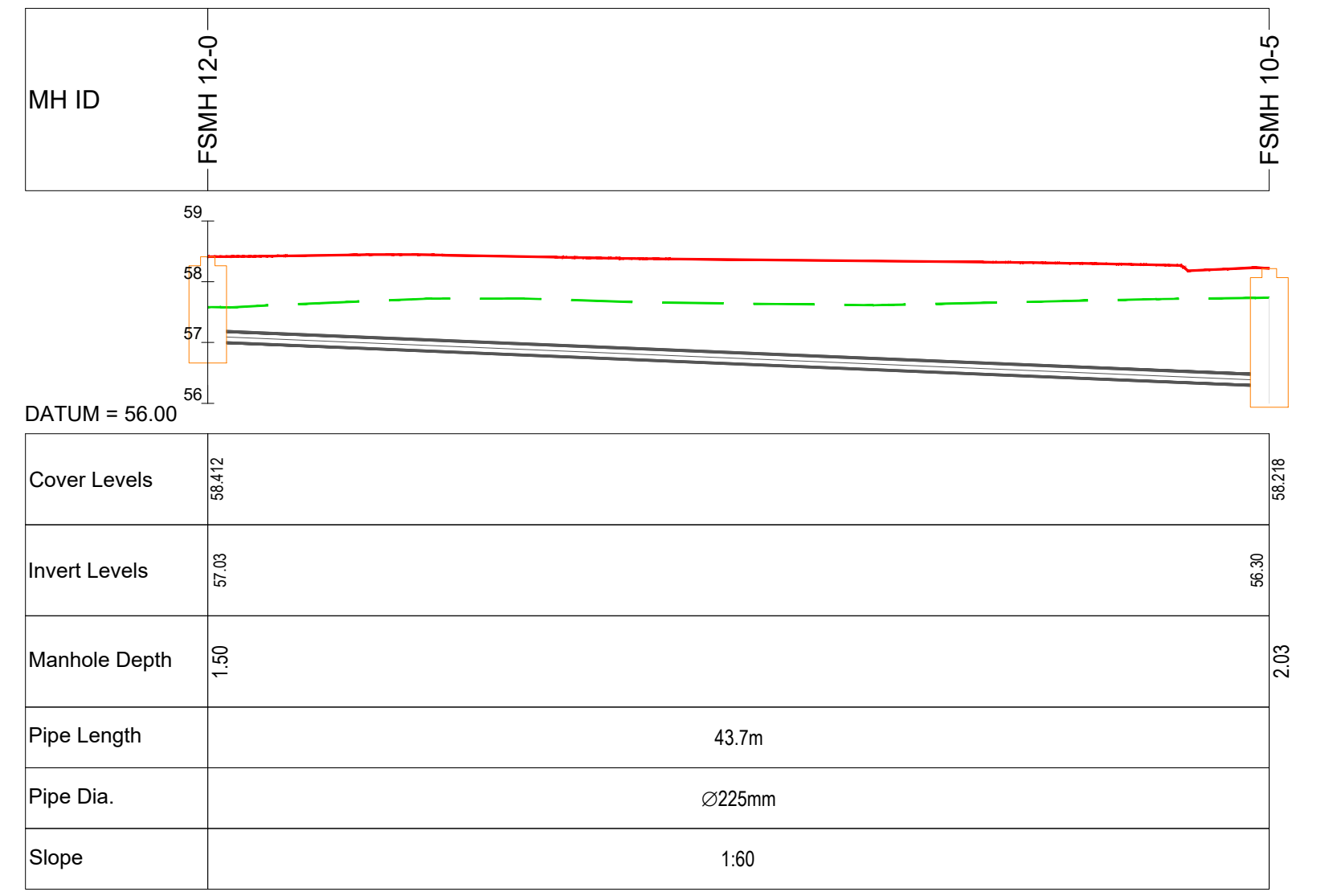
FSMH 8-0 TO FSMH 8-7 - PROFILE
SCALE: H 1:250, V 1:100



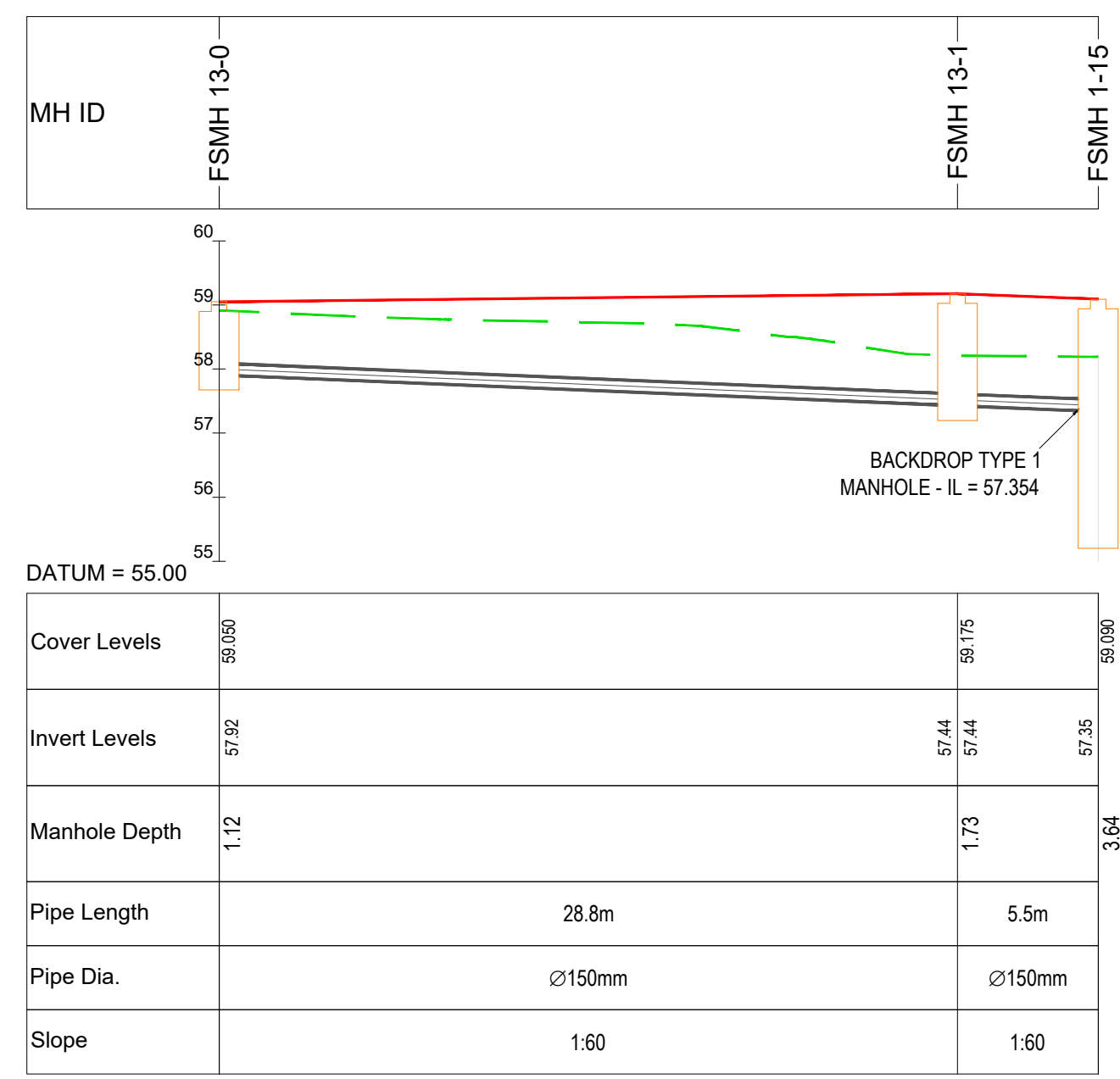
FSMH 10-0 TO FSMH 6-5 - PROFILE
SCALE: H 1:250, V 1:100



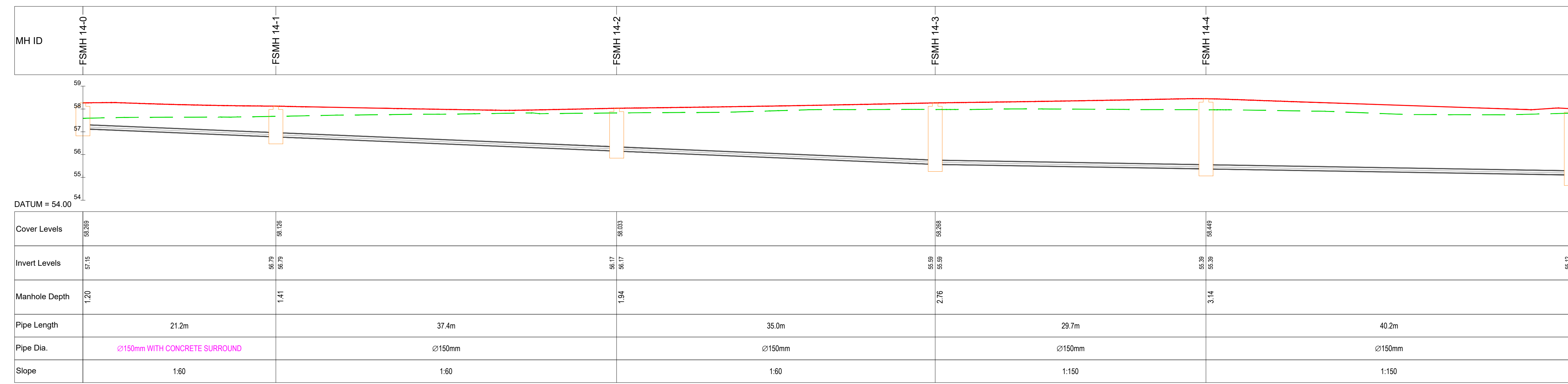
FSMH 11-0 TO FSMH 10-1 - PROFILE
SCALE: H 1:250, V 1:100



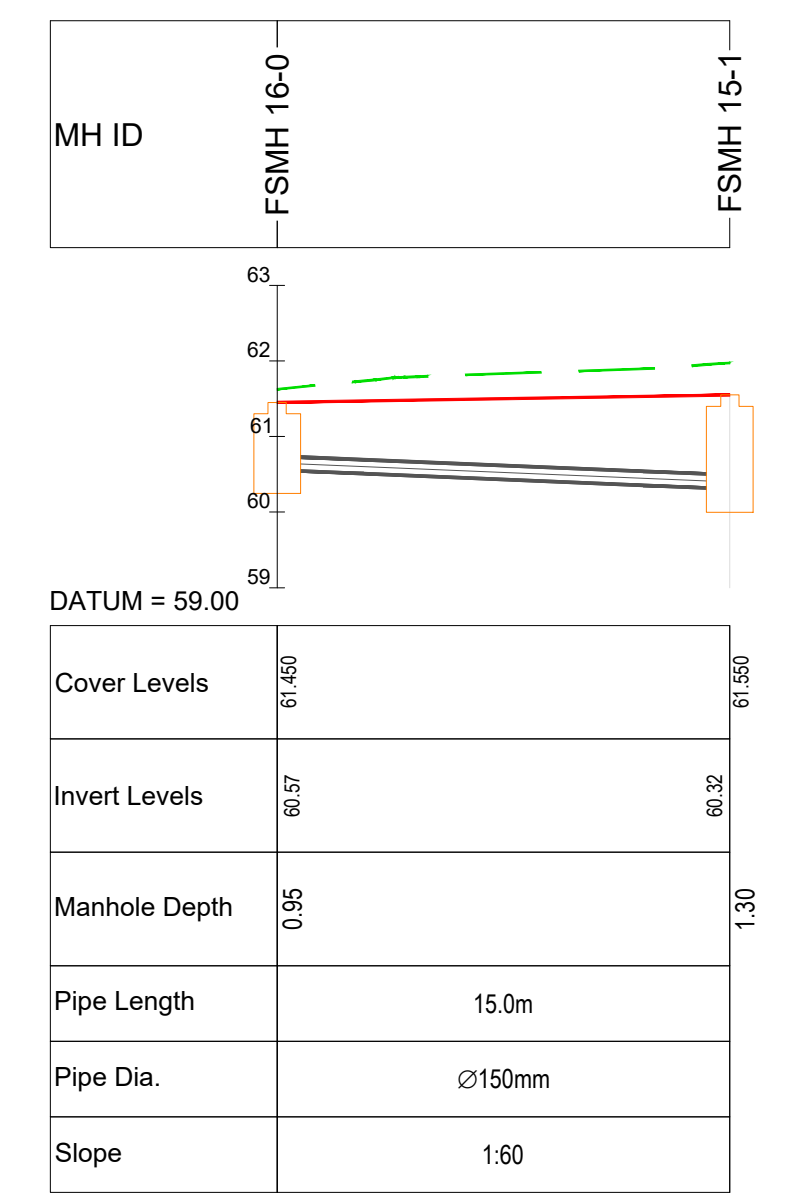
FSMH 12-0 TO FSMH 10-5 - PROFILE
SCALE: H 1:250, V 1:100



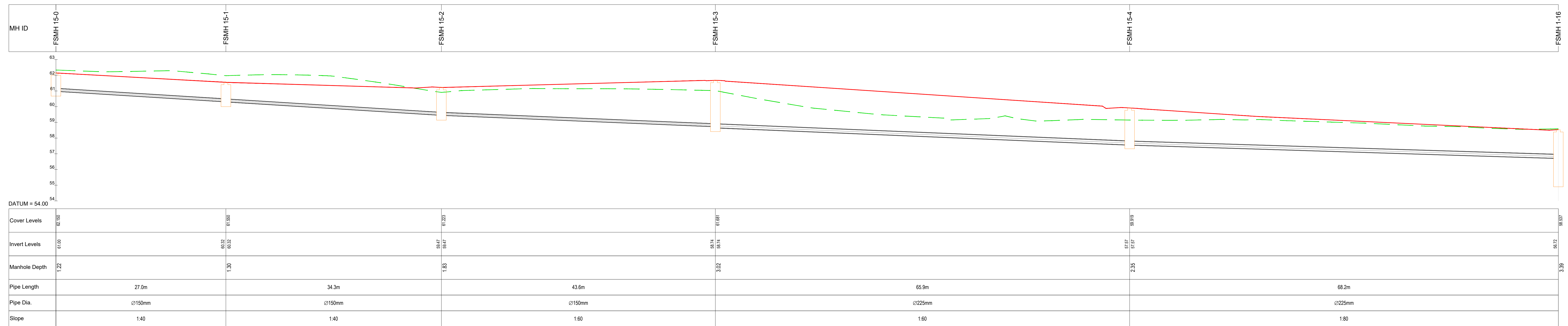
FSMH 13-0 TO FSMH 1-15 - PROFILE
SCALE: H 1:250, V 1:100



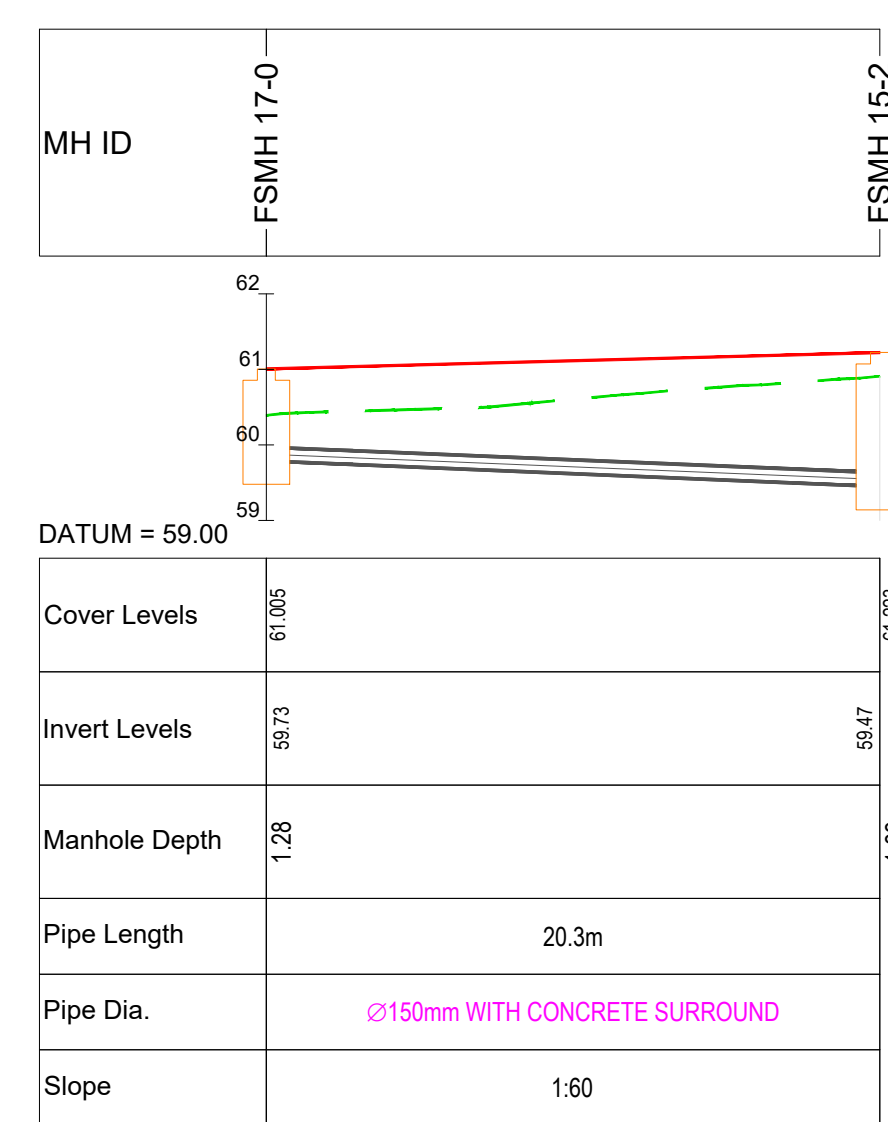
FSMH 14-0 TO FSMH 1-17 - PROFILE
SCALE: H 1:250, V 1:100



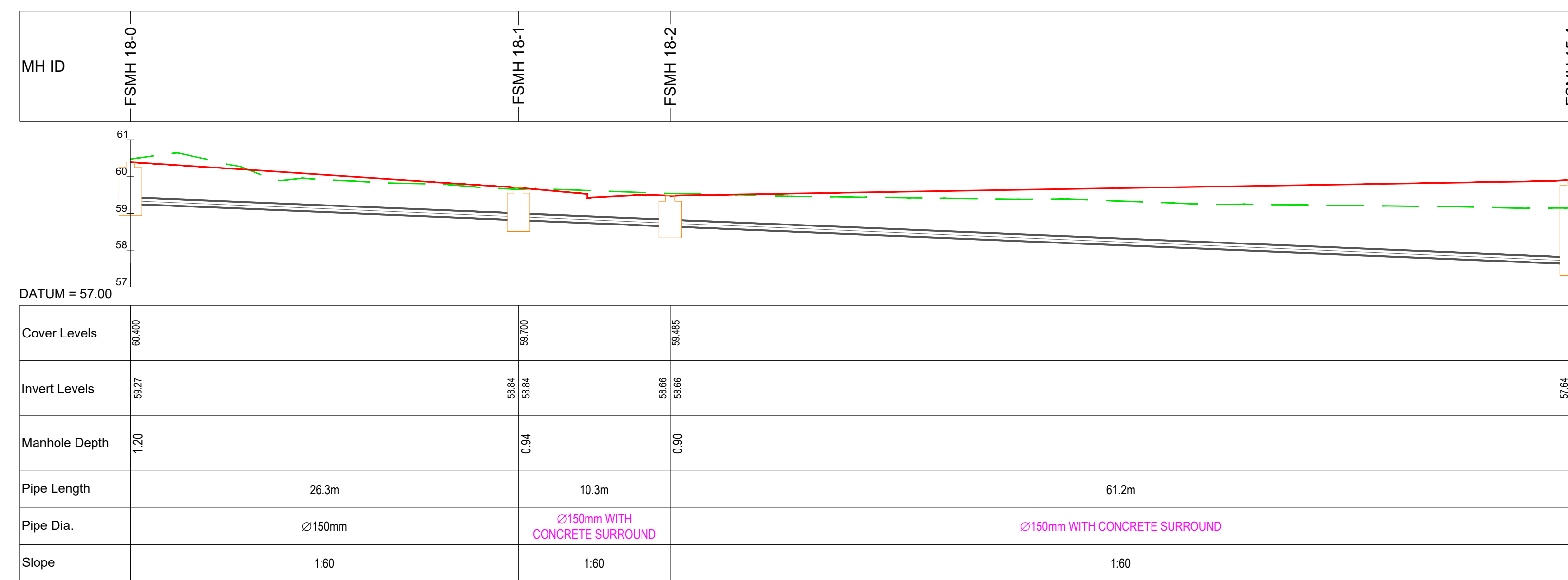
FSMH 16-0 TO FSMH 15-1 - PROFILE
SCALE: H 1:250, V 1:100



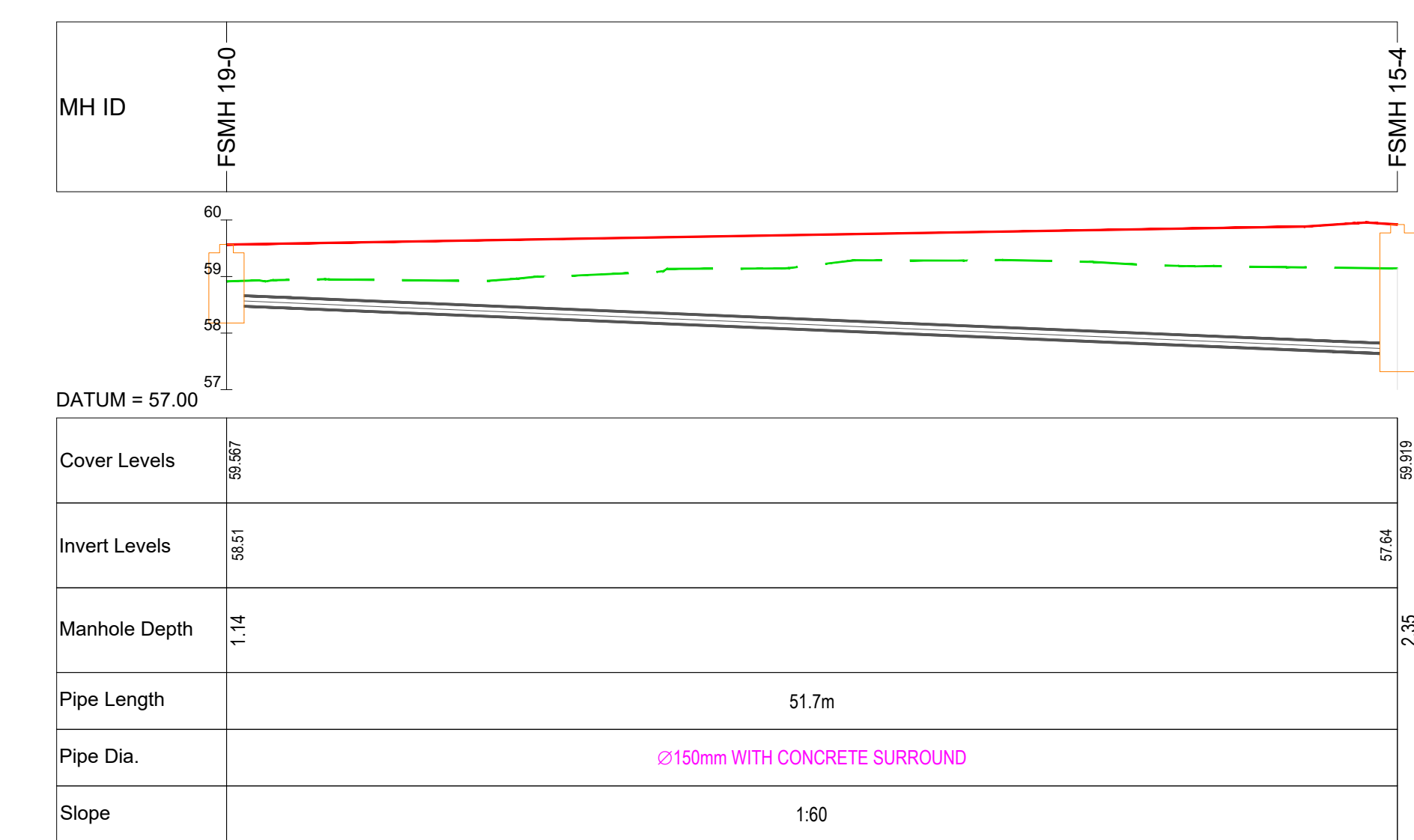
FSMH 15-0 TO FSMH 1-16 - PROFILE
SCALE: H 1:250, V 1:100



FSMH 17-0 TO FSMH 15-2 - PROFILE
SCALE: H 1:250, V 1:100



FSMH 18-0 TO FSMH 15-4 - PROFILE
SCALE: H 1:250, V 1:100



FSMH 19-0 TO FSMH 15-4 - PROFILE
SCALE: H 1:250, V 1:100

LEGEND:

EXISTING GROUND PROFILE
PROPOSED GROUND PROFILE

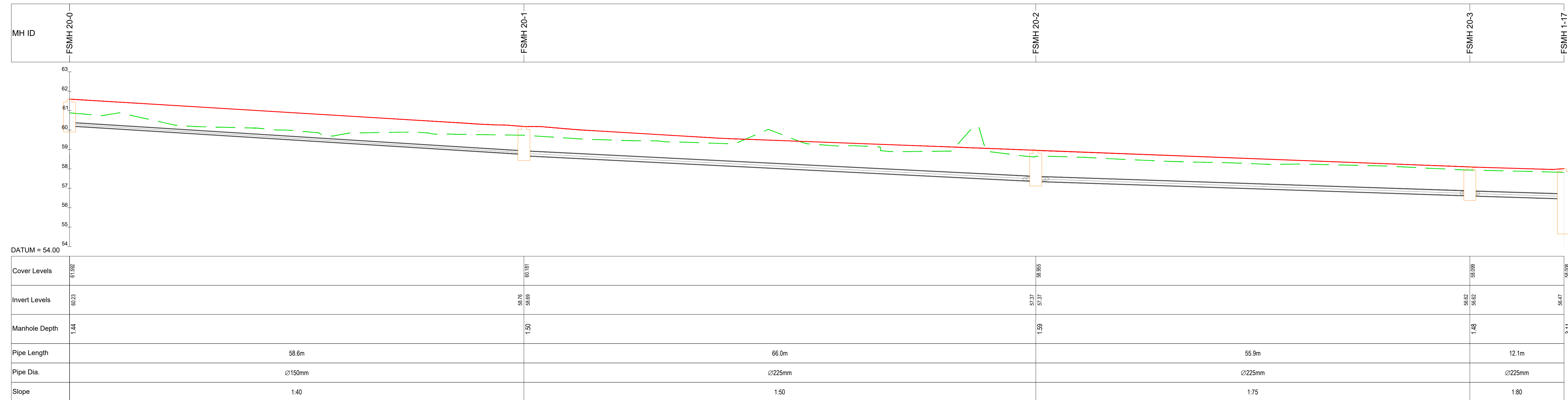
DRAWING REFERENCES:

REFER TO DRAWING 16_153_00_1036 FOR THE PROPOSED BARNHILL LAP FOUL SEWER LAYOUT

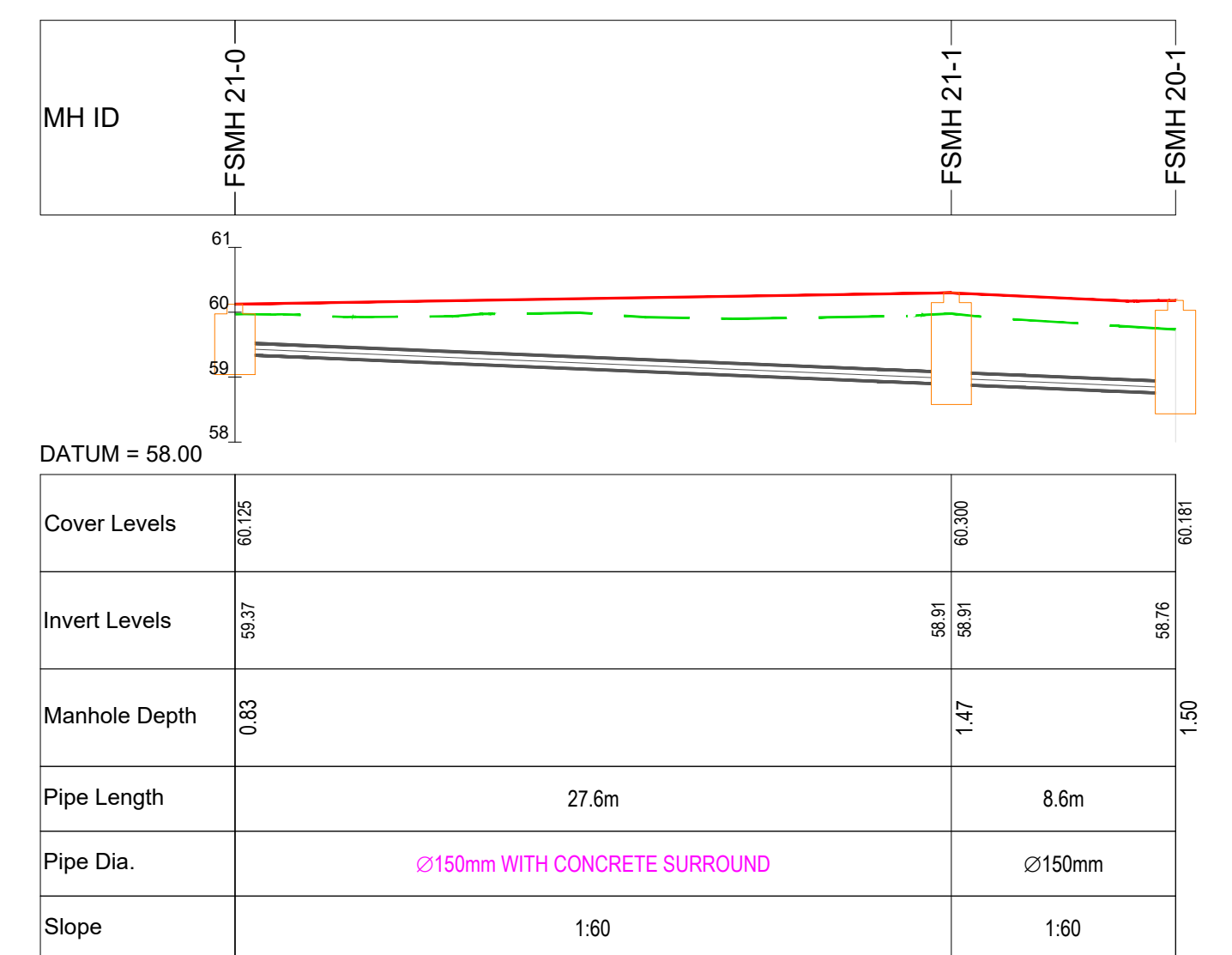
1048 - PROPOSED BARNHILL LAP FOUL LONGSECTIONS SHEET 4 OF 8
SCALE - 1:1000 @ A0

LEGEND:
EXISTING GROUND PROFILE (dashed green line)
PROPOSED GROUND PROFILE (solid red line)

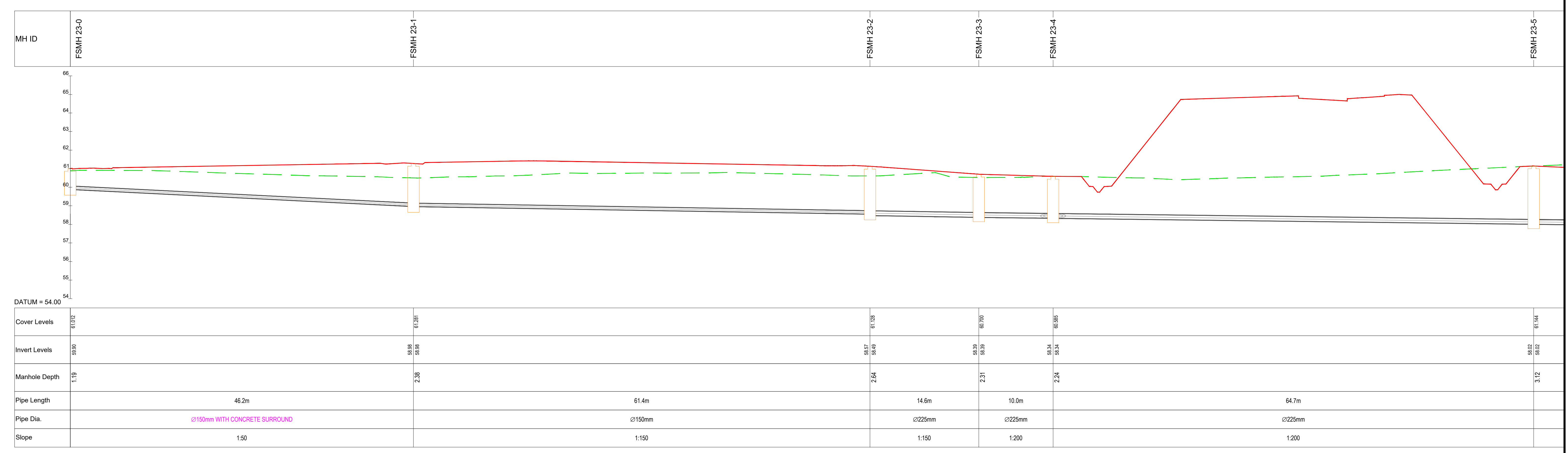
DRAWING REFERENCES:
• REFER TO DRAWING 16_153_00_1036 FOR THE PROPOSED BARNHILL LAP FOUL SEWER LAYOUT



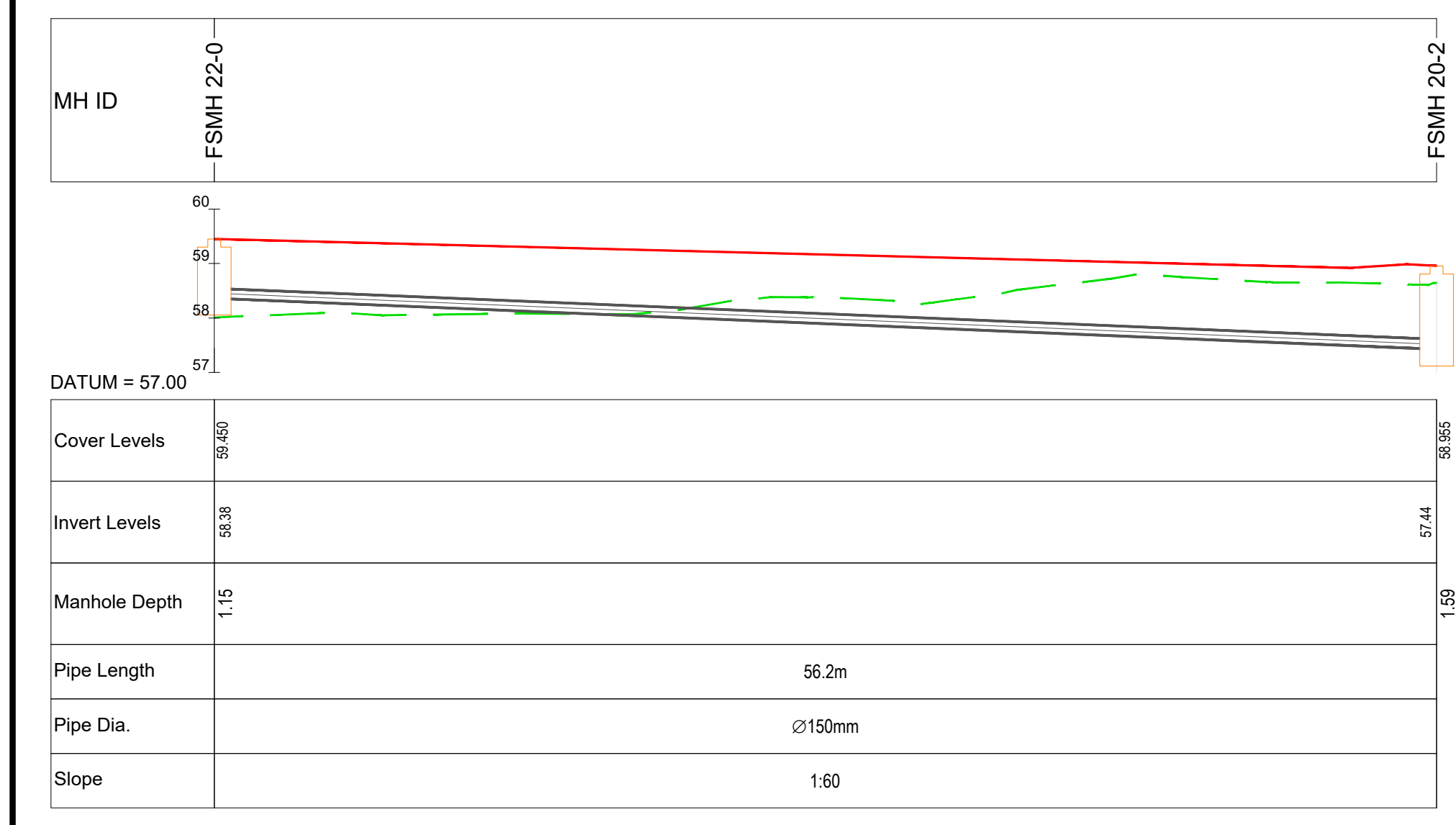
FSMH 20-0 TO FSMH 1-17 - PROFILE
SCALE: H 1:250, V 1:100



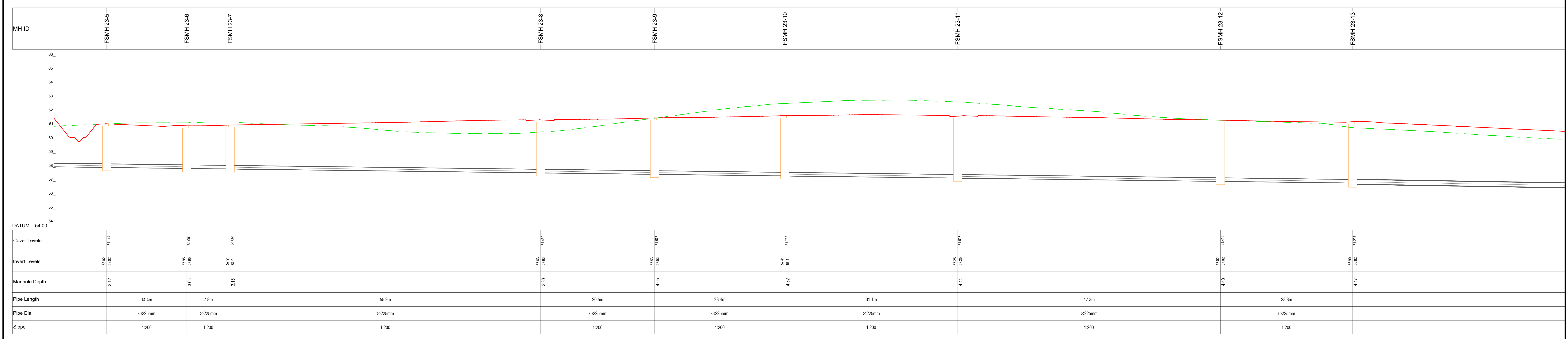
FSMH 21-0 TO FSMH 20-1 - PROFILE
SCALE: H 1:250, V 1:100



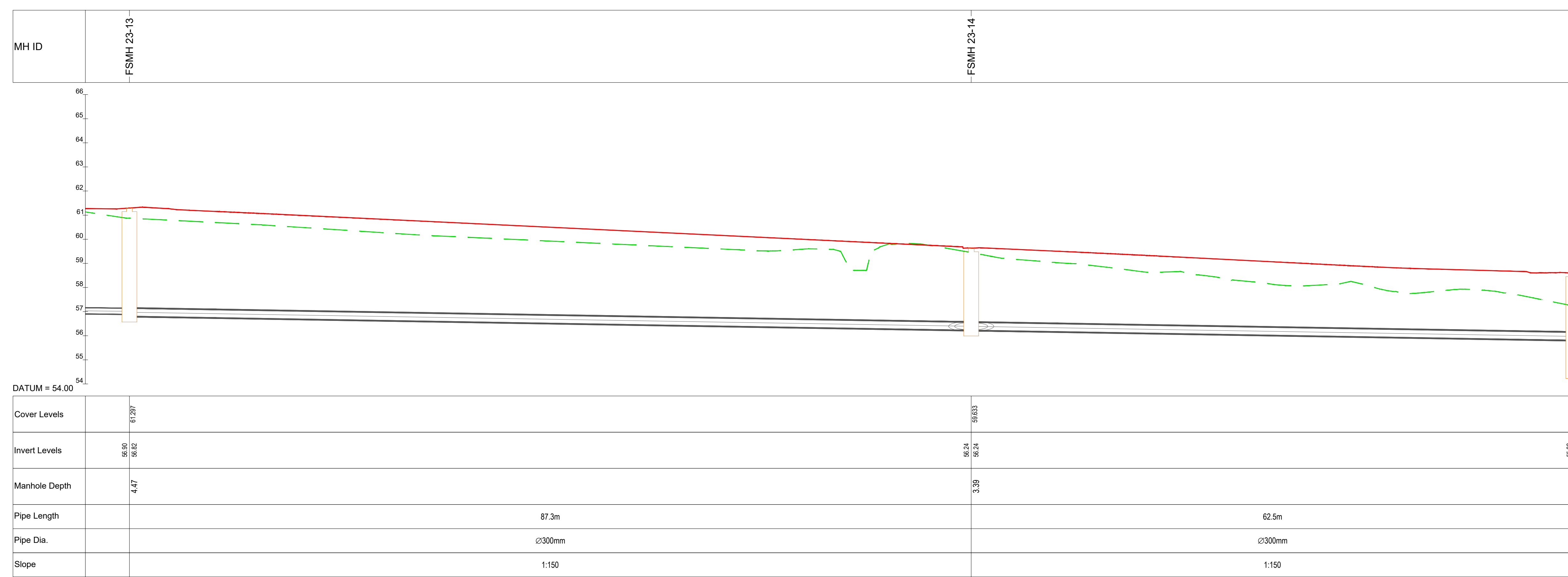
FSMH 23-0 TO FSMH 1-21 - PROFILE
SCALE: H 1:250, V 1:100



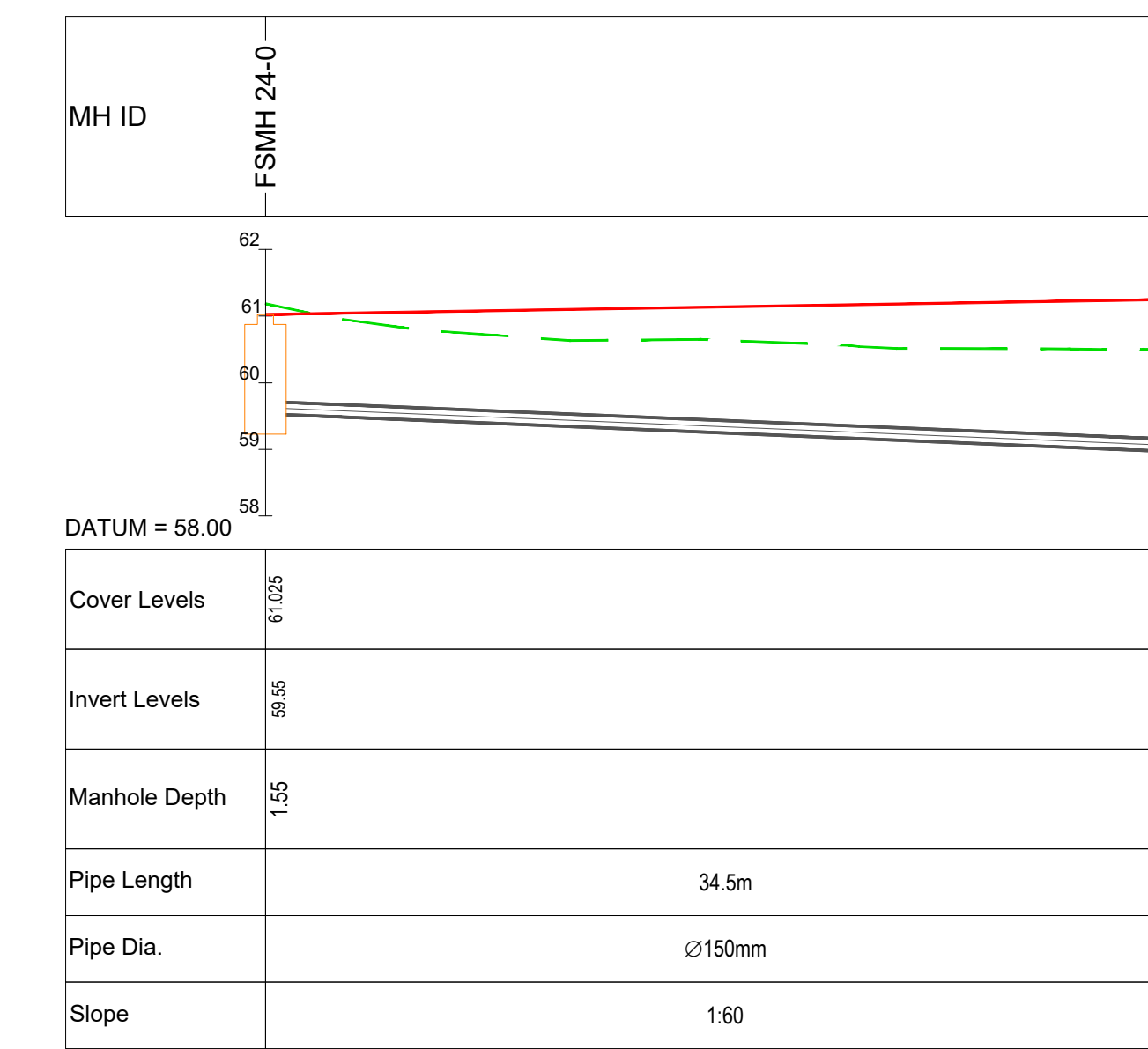
FSMH 22-0 TO FSMH 20-2 - PROFILE
SCALE: H 1:250, V 1:100



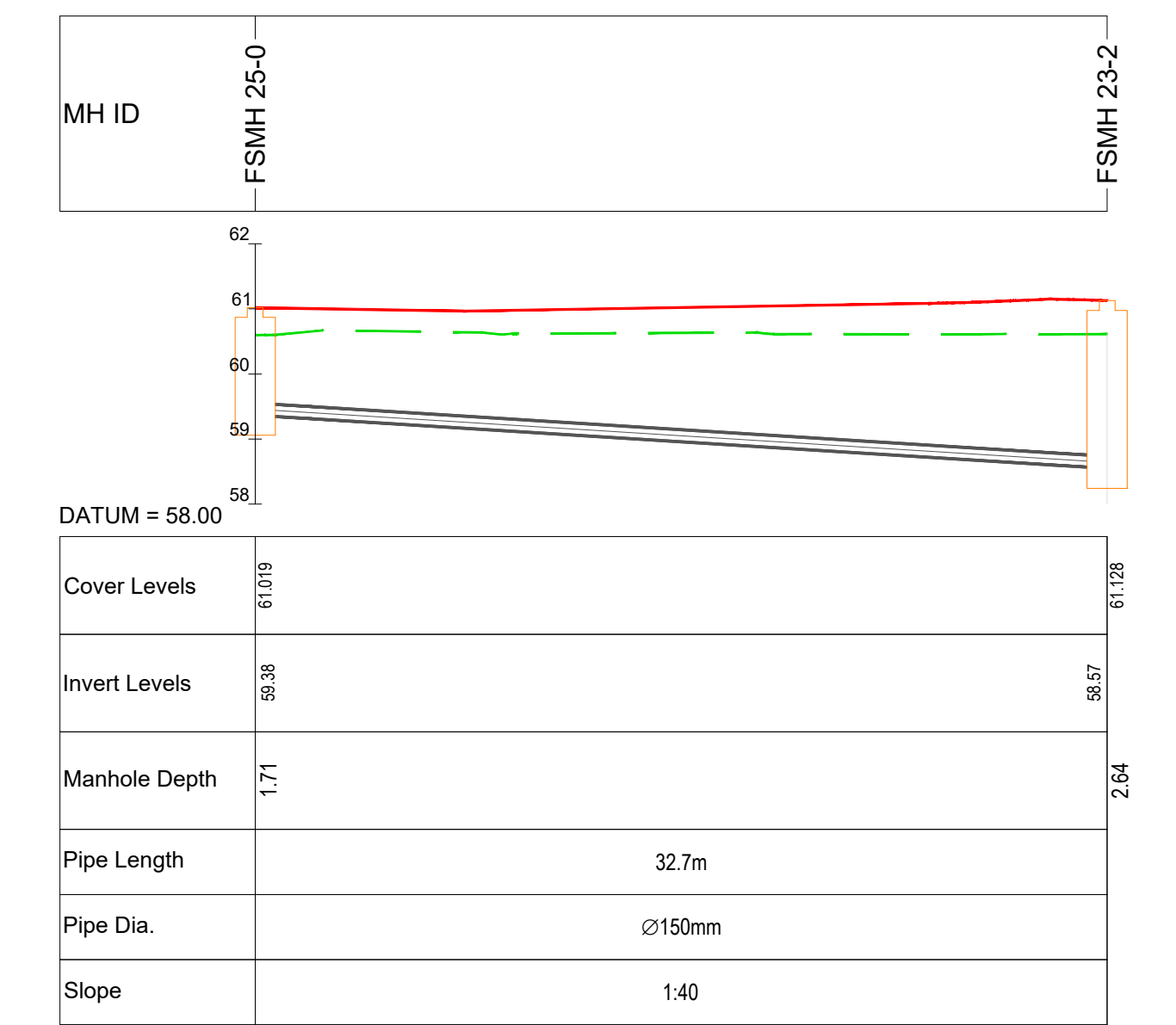
FSMH 23-0 TO FSMH 1-21 - PROFILE (CONTINUED)
SCALE: H 1:250, V 1:100



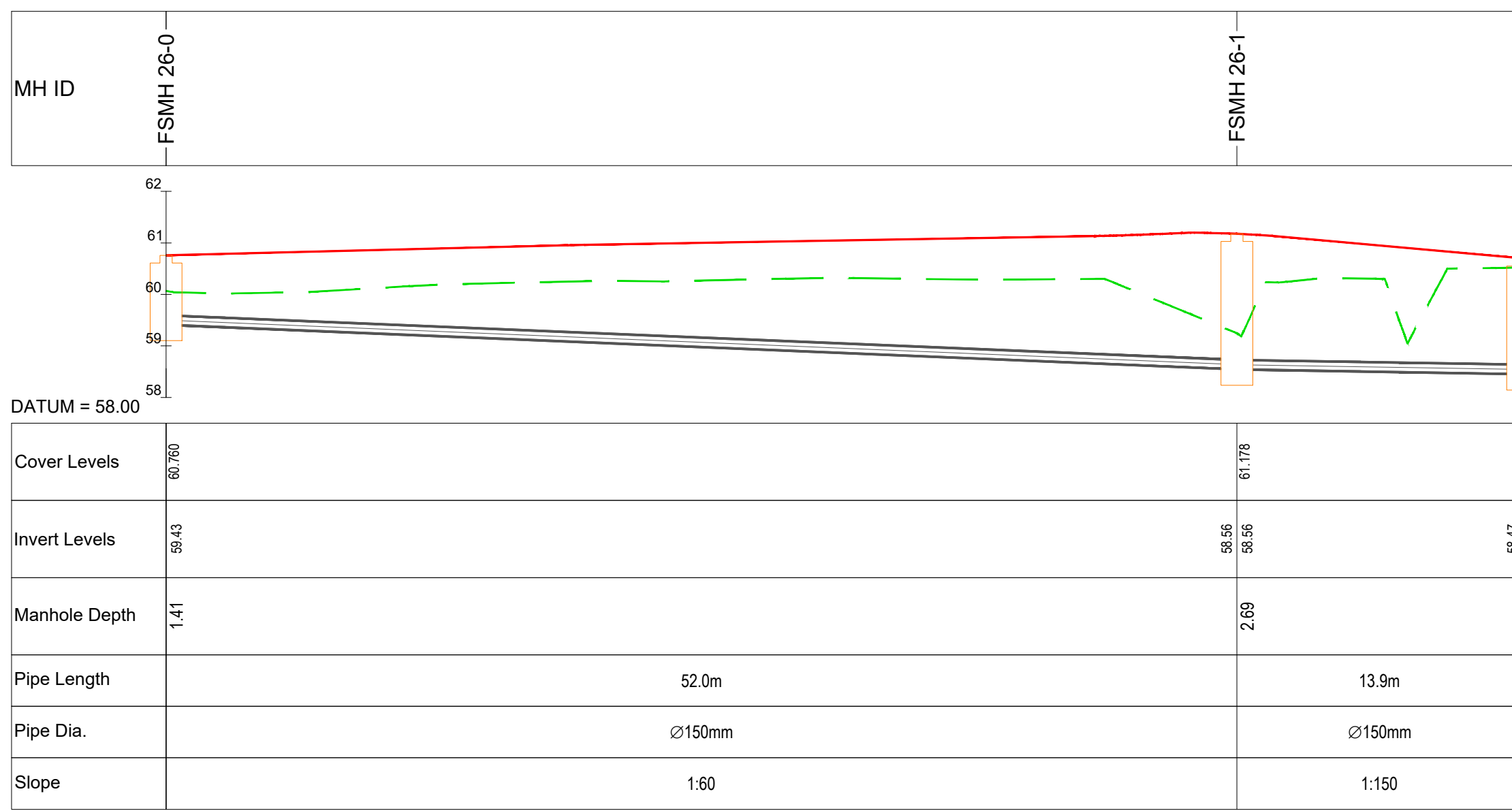
FSMH 23-0 TO FSMH 1-21 - PROFILE (CONTINUED)
SCALE: H 1:250,V 1:100



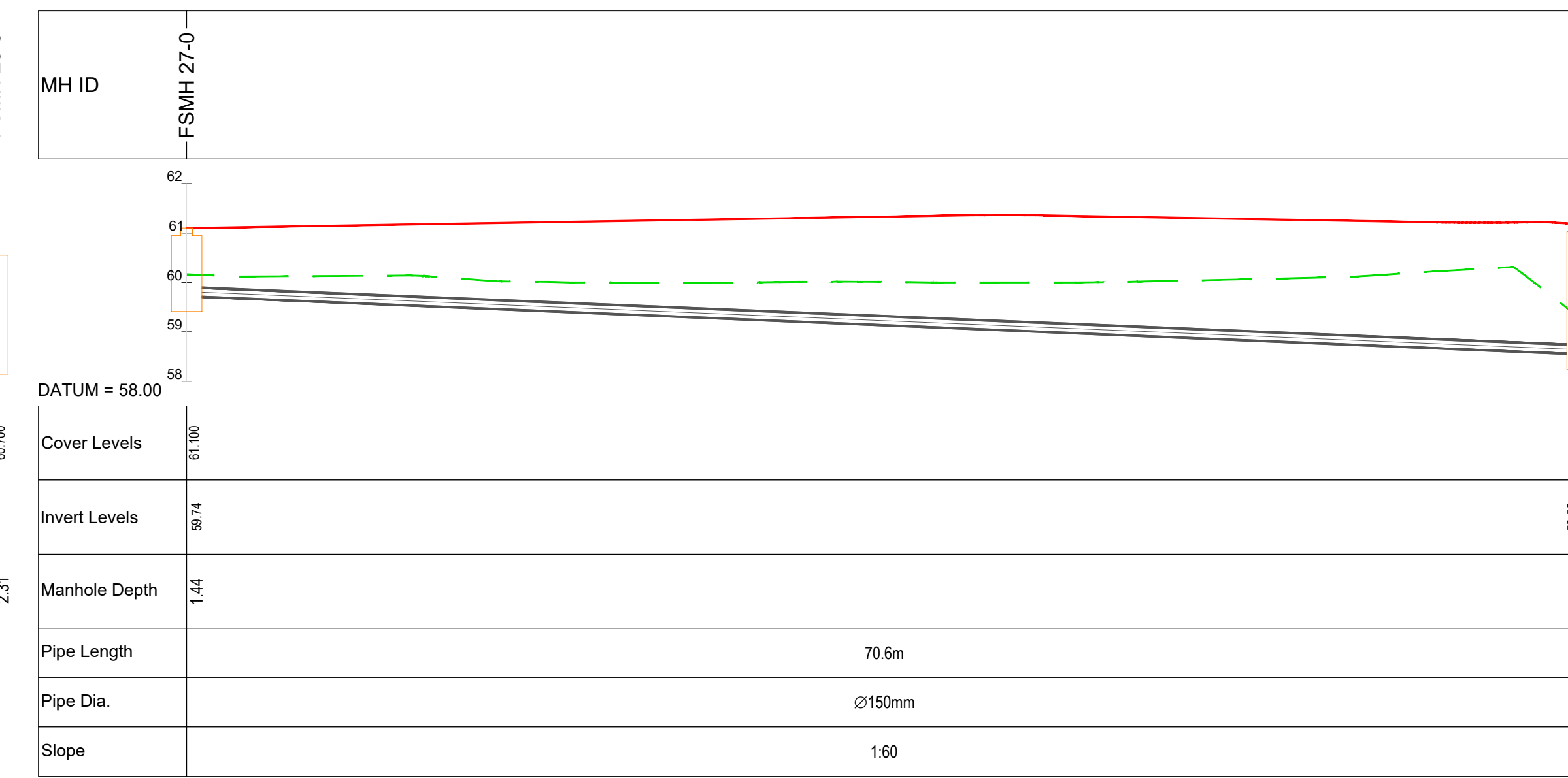
FSMH 24-0 TO FSMH 23-1 - PROFILE
SCALE: H 1:250,V 1:100



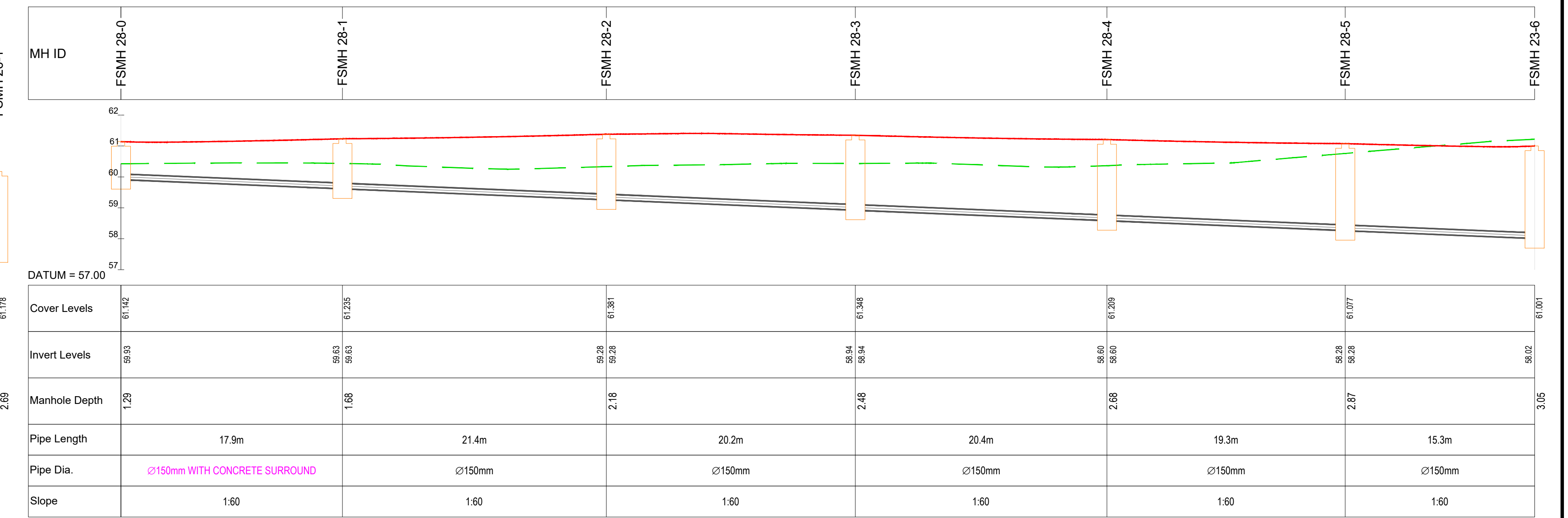
FSMH 25-0 TO FSMH 23-2 - PROFILE
SCALE: H 1:250,V 1:100



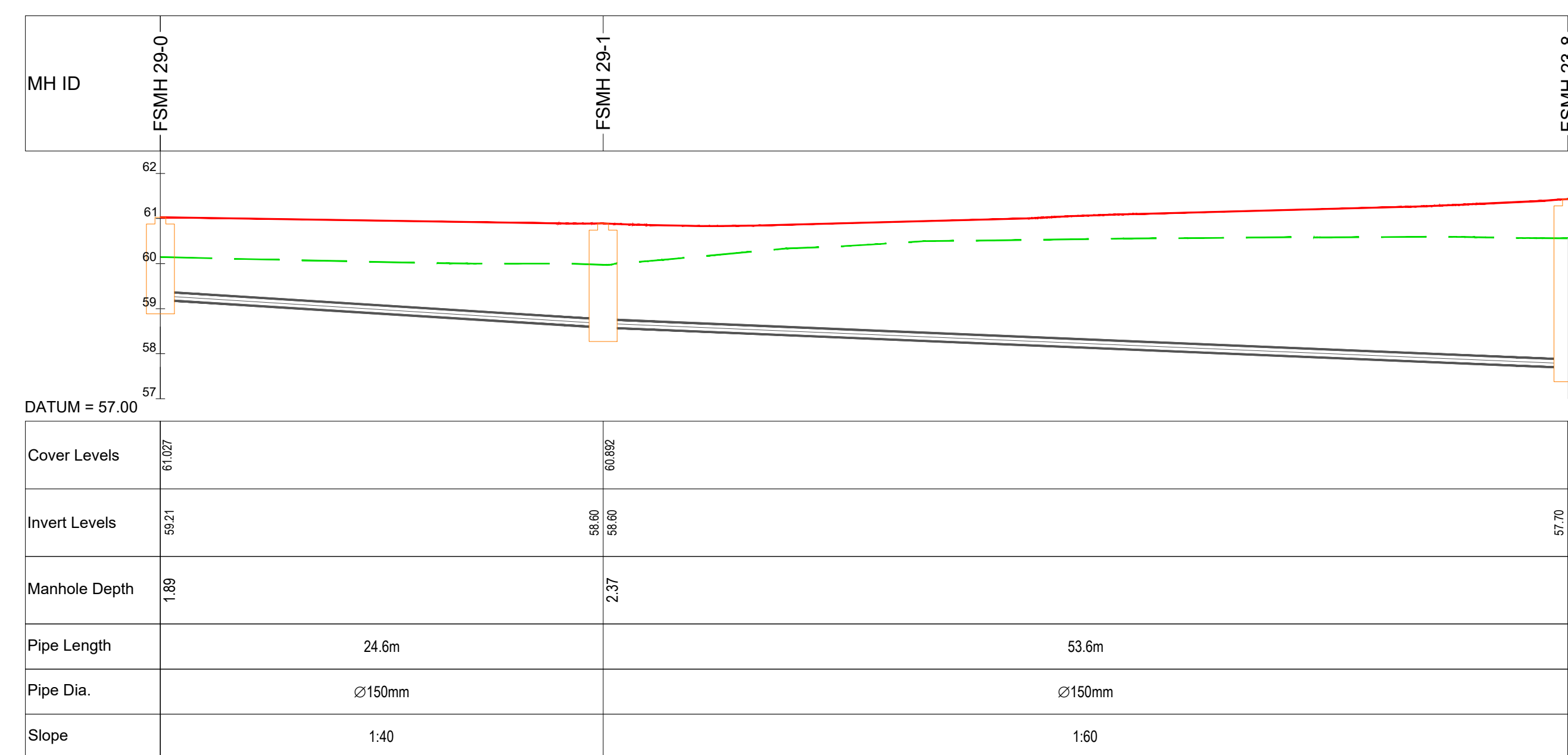
FSMH 26-0 TO FSMH 23-3 - PROFILE
SCALE: H 1:250,V 1:100



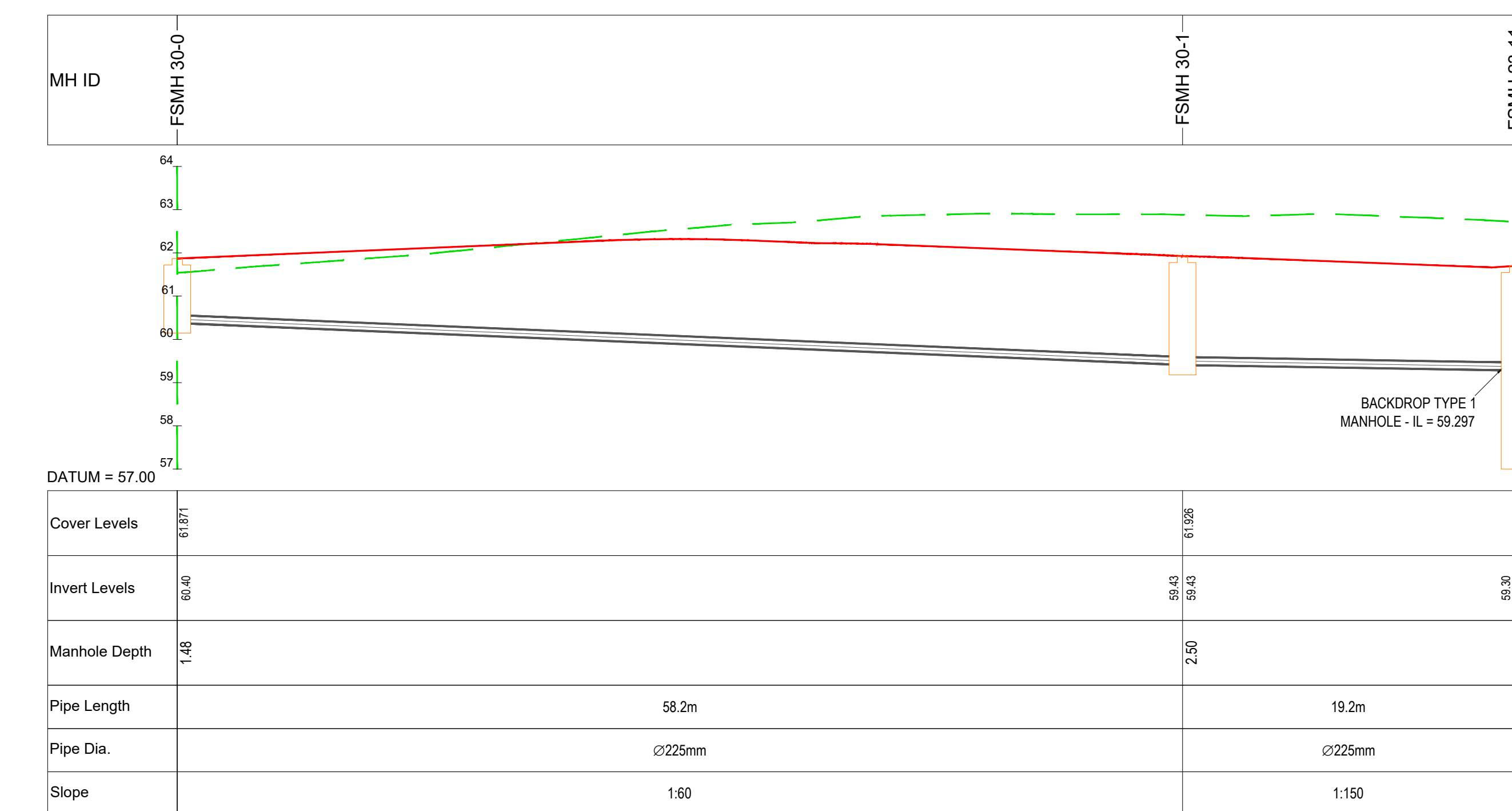
FSMH 27-0 TO FSMH 26-1 - PROFILE
SCALE: H 1:250,V 1:100



FSMH 28-0 TO FSMH 23-6 - PROFILE
SCALE: H 1:250,V 1:100



FSMH 29-0 TO FSMH 23-8 - PROFILE
SCALE: H 1:250,V 1:100



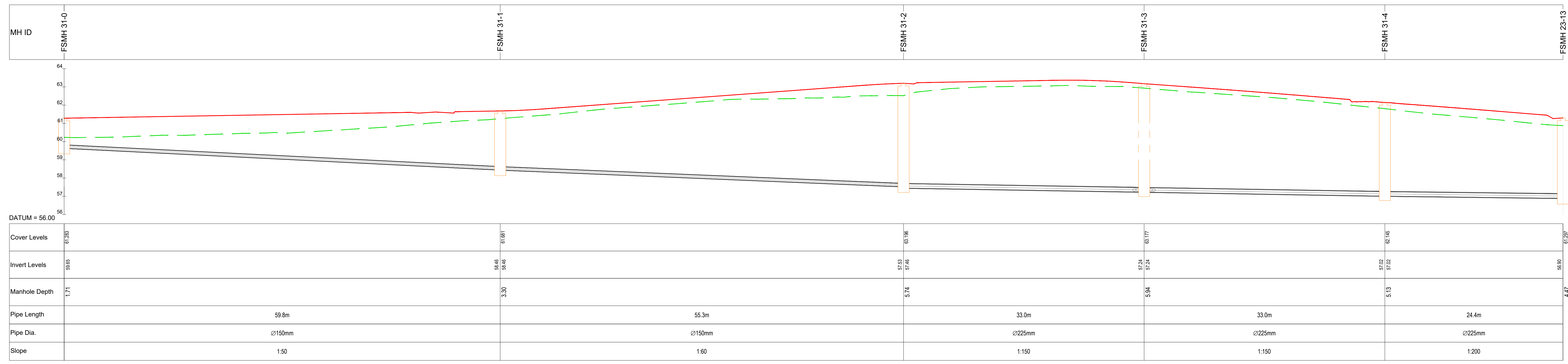
FSMH 30-0 TO FSMH 23-11 - PROFILE
SCALE: H 1:250,V 1:100

LEGEND:

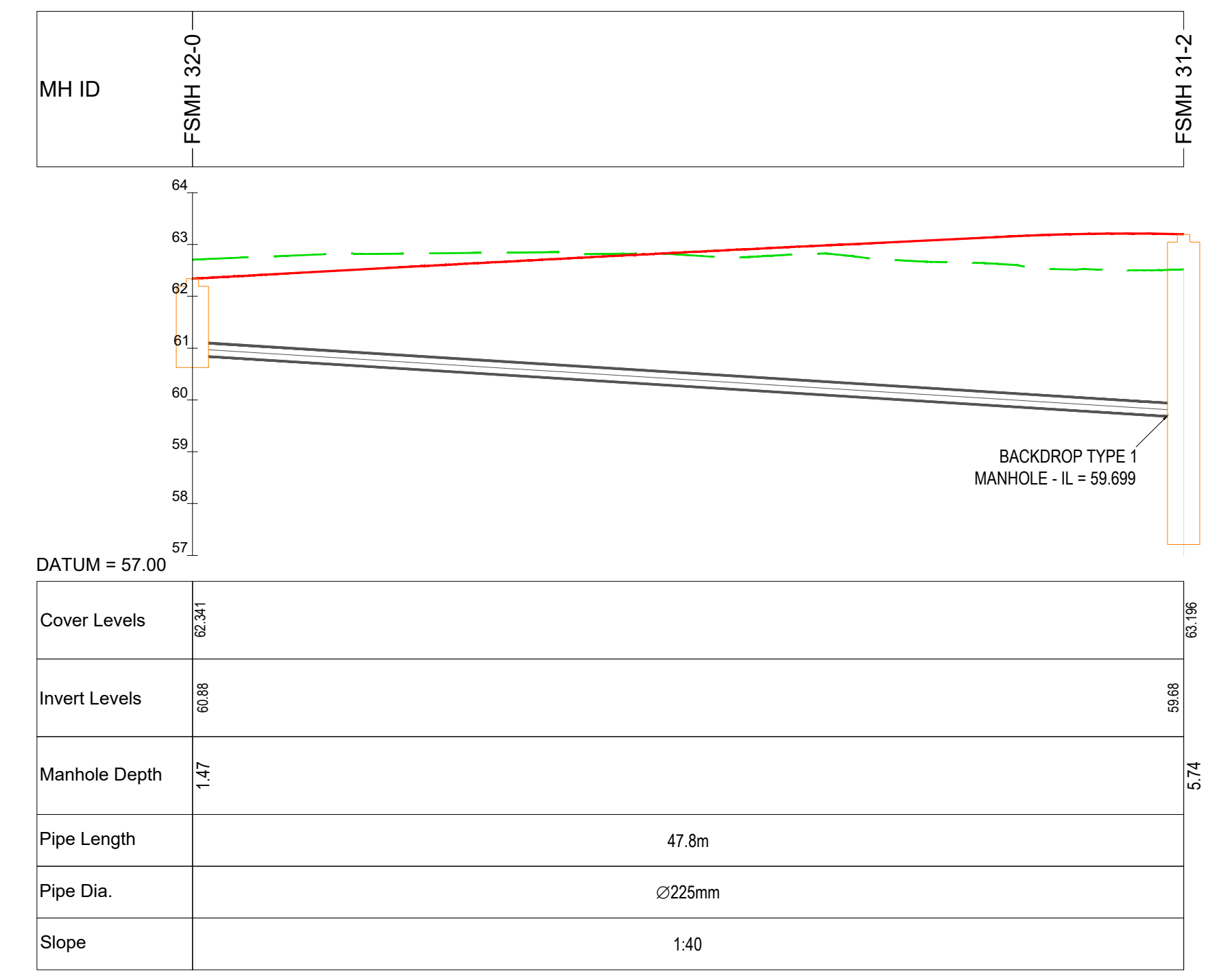
EXISTING GROUND PROFILE
PROPOSED GROUND PROFILE

DRAWING REFERENCES:

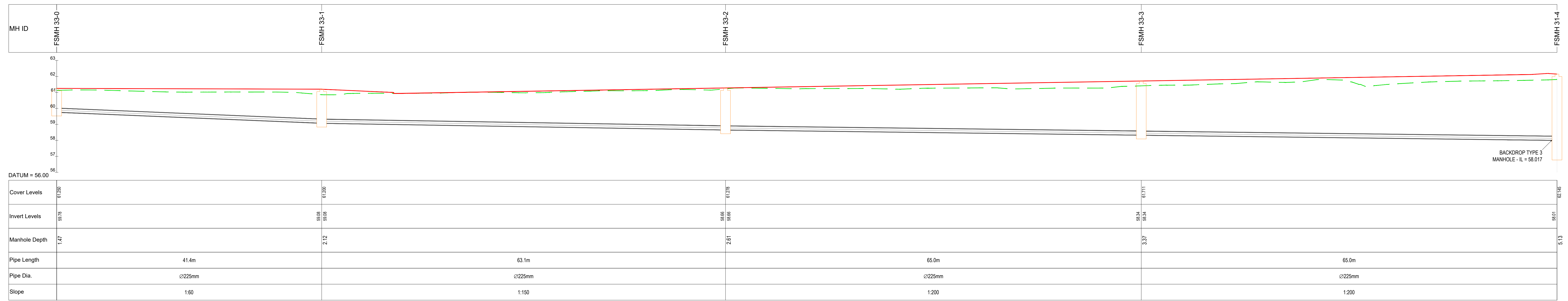
REFER TO DRAWING 18_153_00_1036 FOR THE PROPOSED BARNHILL LAP FOUL SEWER LAYOUT



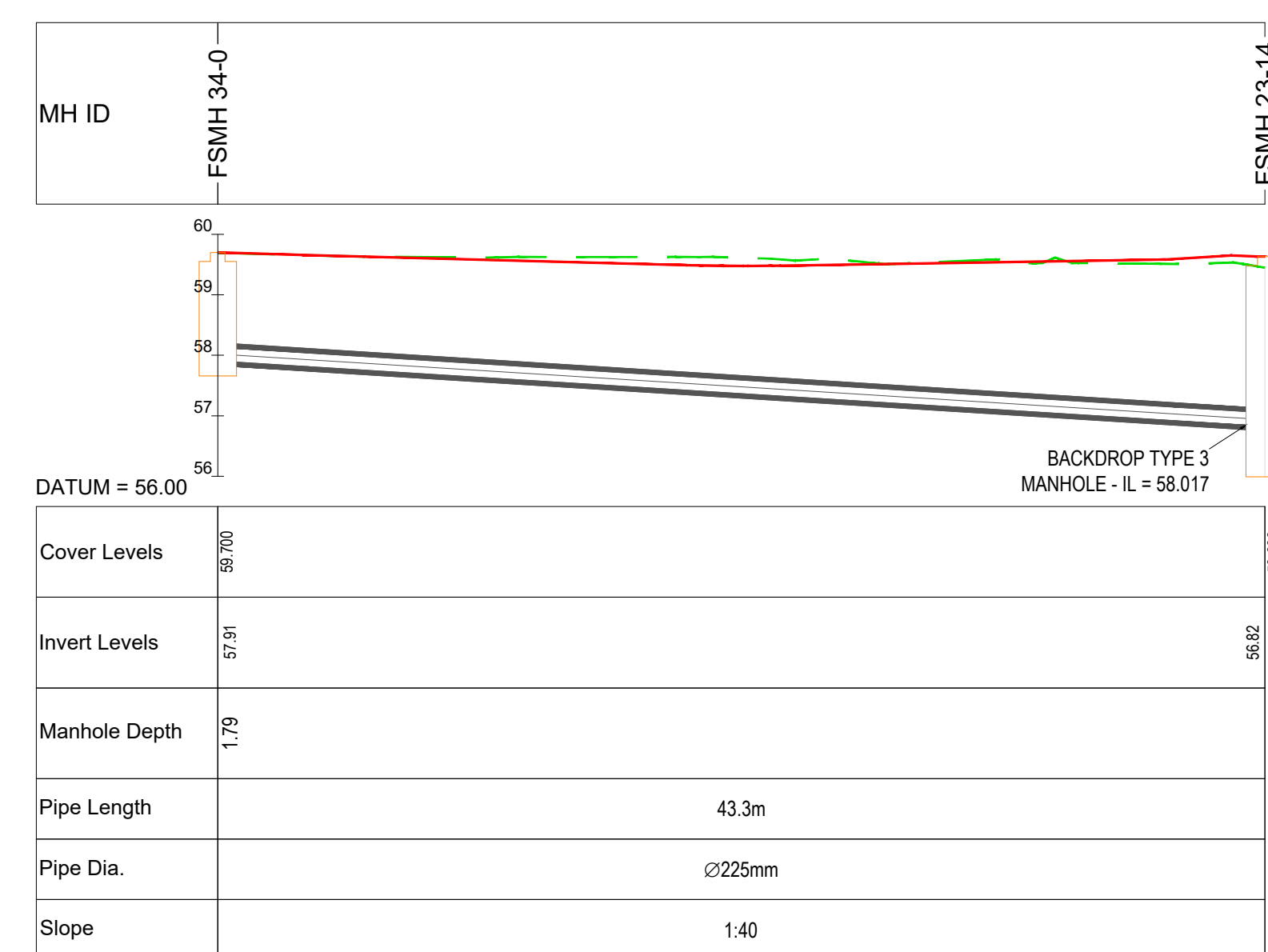
FSMH 31-0 TO FSMH 23-13 - PROFILE
SCALE: H 1:250,V 1:100



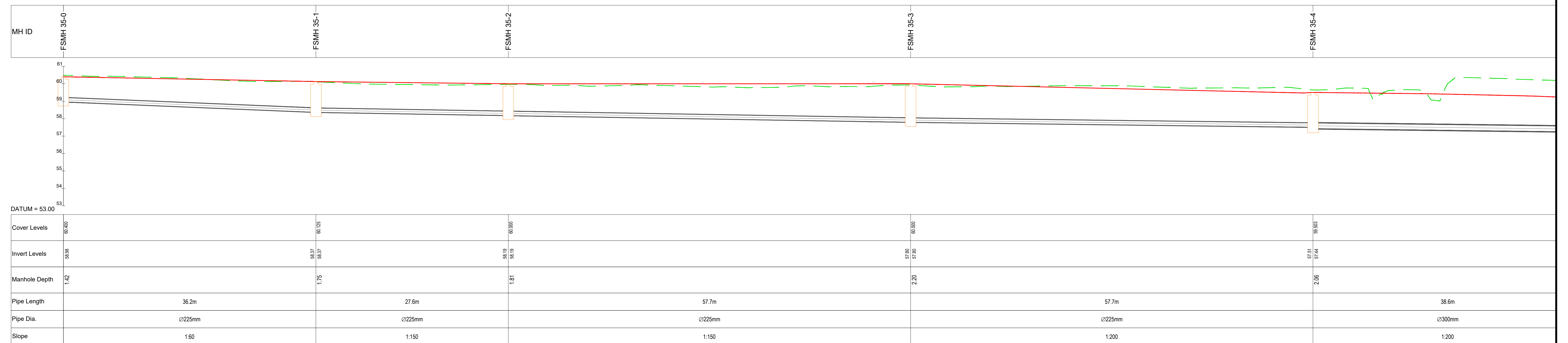
FSMH 32-0 TO FSMH 31-2 - PROFILE
SCALE: H 1:250,V 1:100



FSMH 33-0 TO FSMH 31-4 - PROFILE
SCALE: H 1:250,V 1:100



FSMH 34-0 TO FSMH 23-14 - PROFILE
SCALE: H 1:250,V 1:100



FSMH 35-0 TO FSMH 1-27 - PROFILE
SCALE: H 1:250,V 1:100

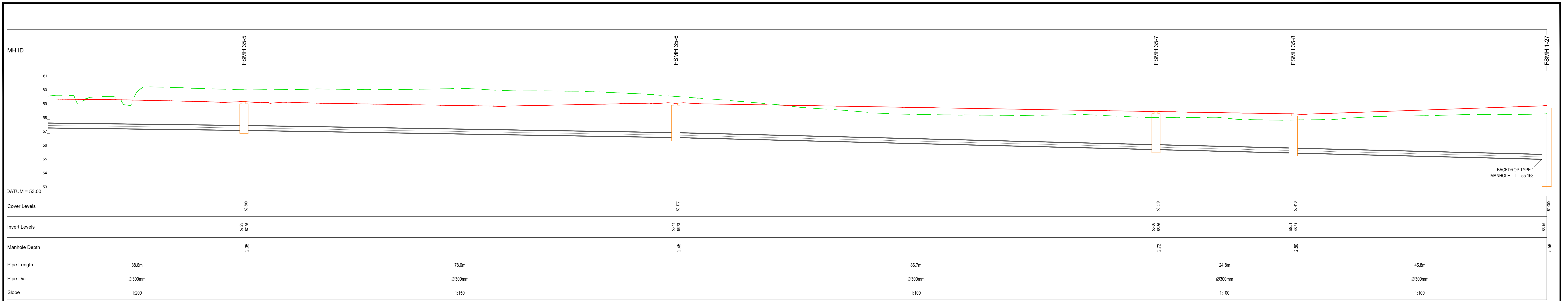
LEGEND:

EXISTING GROUND PROFILE
PROPOSED GROUND PROFILE

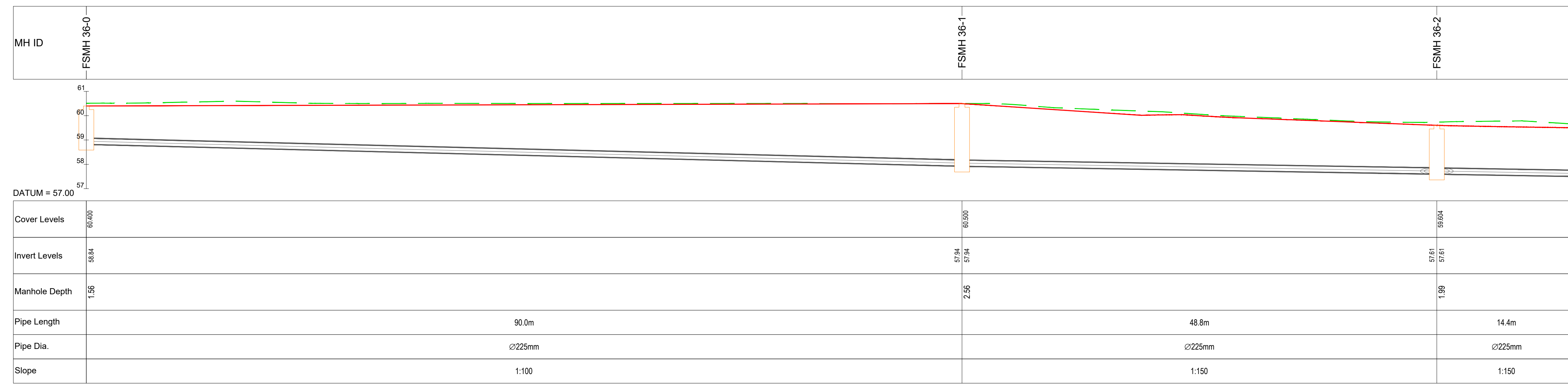
DRAWING REFERENCES:

REFER TO DRAWING 16_153_00_1036 FOR THE PROPOSED BARNHILL LAP FOUL SEWER LAYOUT

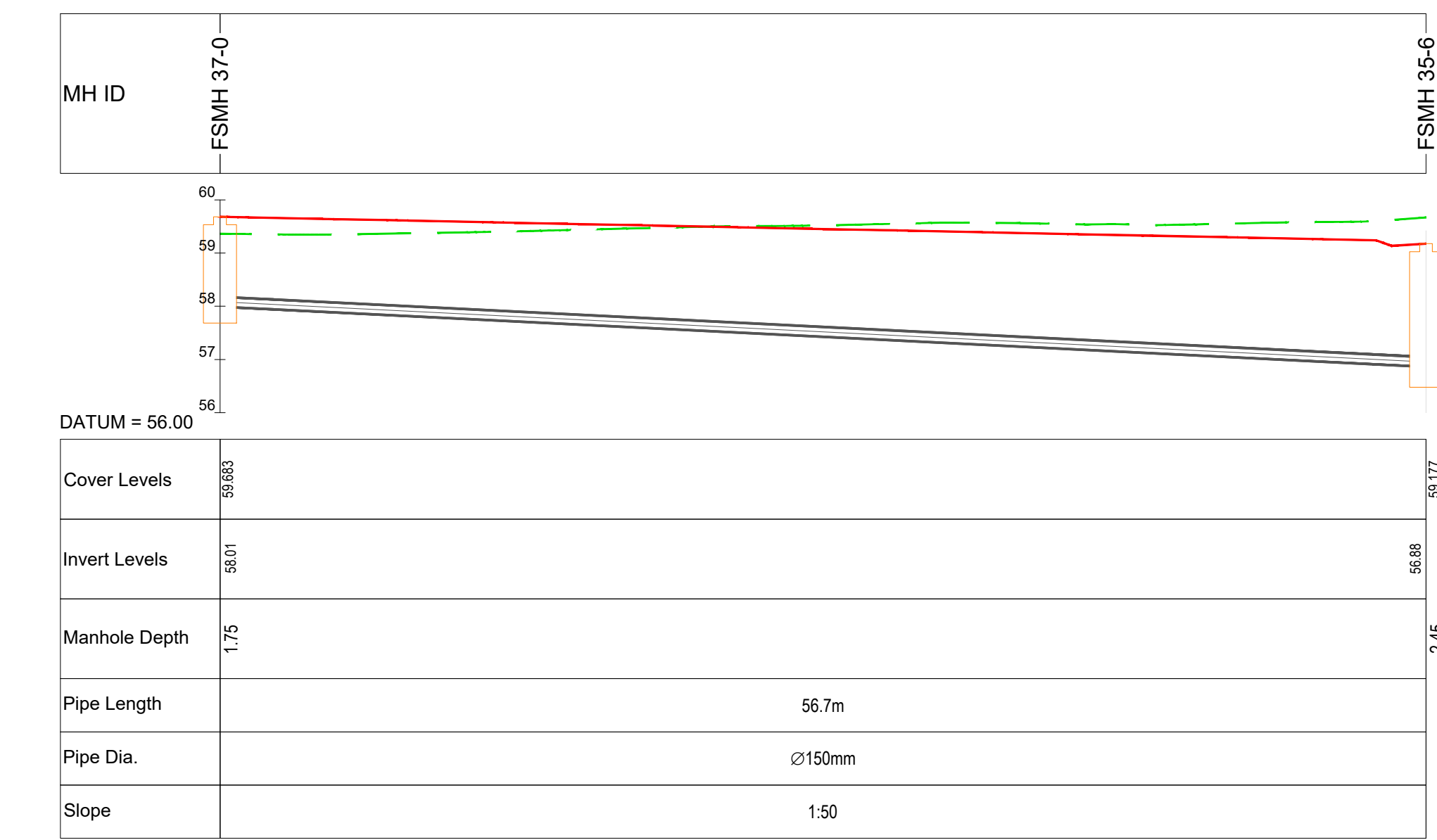
1051 - PROPOSED BARNHILL LAP FOUL LONGSECTIONS SHEET 7 OF 8
SCALE - 1:1000 @ A0



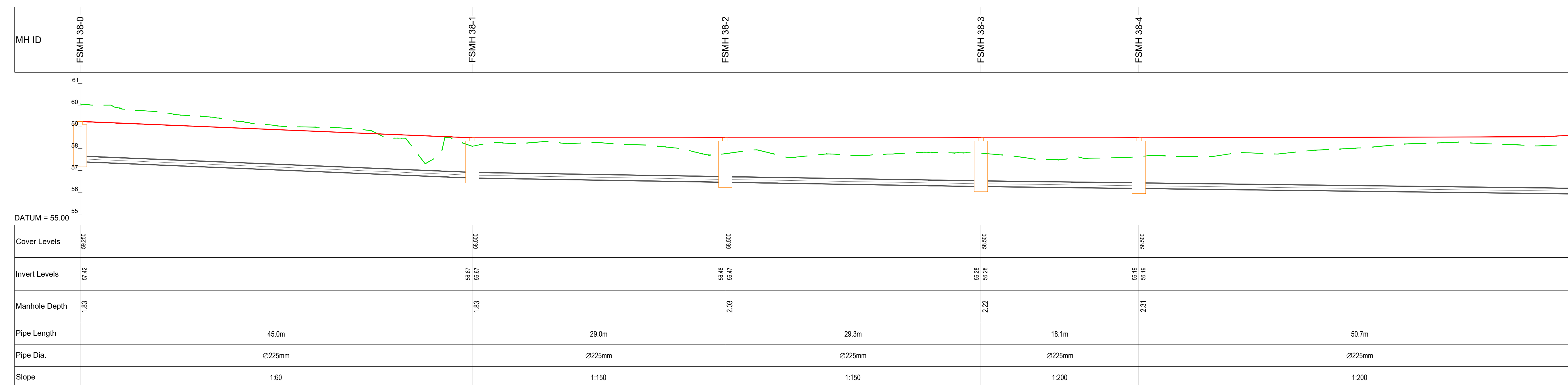
FSMH 35-0 TO FSMH 1-27 - PROFILE (CONTINUED)
SCALE: H 1:250, V 1:100



FSMH 36-0 TO FSMH 35-4 - PROFILE
SCALE: H 1:250, V 1:100



FSMH 37-0 TO FSMH 35-6 - PROFILE
SCALE: H 1:250, V 1:100



FSMH 38-0 TO FSMH 35-7 - PROFILE
SCALE: H 1:250, V 1:100

LEGEND:
 EXISTING GROUND PROFILE
 PROPOSED GROUND PROFILE

DRAWING REFERENCES:
 • REFER TO DRAWING 18_153_00_1036 FOR THE PROPOSED BARNHILL LAP FOUL SEWER LAYOUT

1052 - PROPOSED BARNHILL LAP FOUL
 LONGSECTIONS SHEET 8 OF 8
 SCALE - 1:1000 @ A0