

**NOTE:**

FENCE AT BOUNDARY BETWEEN FORTFIELD ROAD AND THE DETENTION BASIN TO ENSURE FREE FLOW OF WATER DURING A PLUVIAL FLOOD EVENT ON FORTFIELD ROAD. PROPOSED FENCE TO HAVE 300mm CLEARANCE OFF GROUND LEVEL BETWEEN POSTS TO MITIGATE AGAINST BLOCKAGE DUE TO DEBRIS BEING CAUGHT IN FENCE, BUT TO PROTECT SMALL CHILDREN FROM ENTERING THE DETENTION BASIN.

DURING TIMES OF PLUVIAL FLOODING ON FORTFIELD ROAD, WATER THAT OVERTOPS THE FOOTPATH WILL THEN FLOW UNOBSTRUCTED DOWN INTO THE DETENTION BASIN.

THIS ENABLES EASY ACCESS FOR MAINTENANCE, AND REDUCES VISUAL OBSTRUCTION TO THE DETENTION BASIN FOR SAFETY REASONS. REFER TO THE PUNCH CONSULTING ENGINEERS' ENGINEERING PLANNING REPORT FOR FURTHER INFORMATION.

PROPOSED FOUL MANHOLES					
Name	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
F1-12	48.400	1200	713260.160	729816.938	1.675
F1-13_OUT	48.250	1200	713246.424	729810.905	1.640

PROPOSED FOUL PIPES									
Name	US Node	DS Node	Length (m)	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	US Depth (m)
F1.012	F1-12	F1-13_OUT	15.002	46.125	46.050	0.075	200.0	225	1.450

PROPOSED SURFACE WATER MANHOLES					
Name	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
EXT MH20	48.700	1200	713301.845	729712.686	2.800
S1-14	47.670	1500	713257.999	729813.882	2.592
EXT MH4	47.800	1500	713247.849	729820.963	3.000
EXT MH3	47.620	1350	713220.786	729881.072	2.950

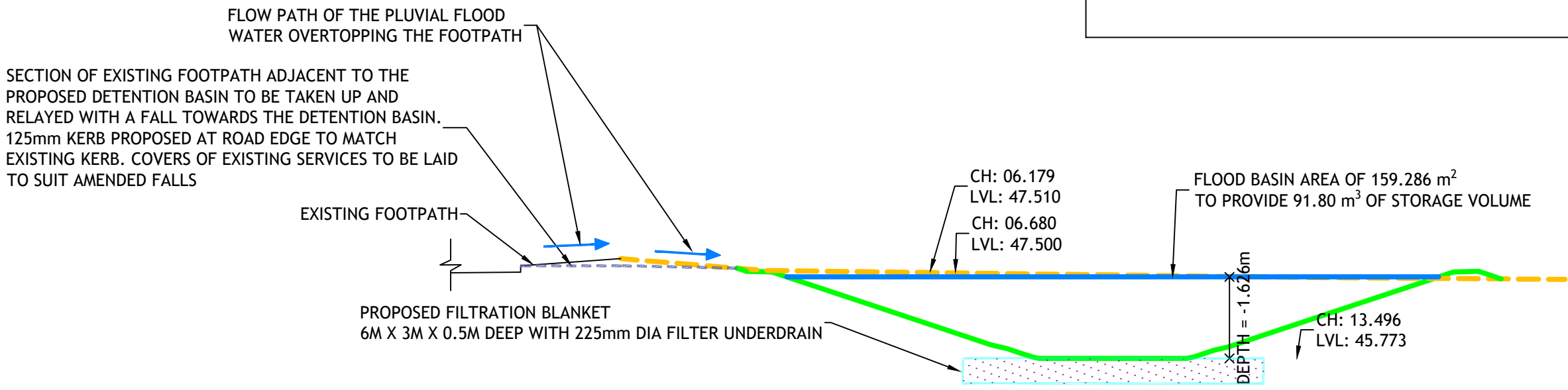
PROPOSED SURFACE WATER PIPES										
Name	US Node	DS Node	Length (m)	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	US Depth (m)	DS Depth (m)
EXT S20.000	EXT MH20	EXT MH4	120.994	45.900	44.970	0.930	130.1	300	2.500	2.530
S1.014	S1-14	EXT MH4	12.376	45.078	45.045	0.033	375.0	525	2.067	2.230
EXT 20.001	EXT MH4	EXT MH3	65.920	44.800	44.670	0.130	507.1	450	2.550	2.500

PROPOSED SURFACE WATER PIPES (ASSOCIATED WITH PLUVIAL FLOODING)										
Name	US Node	DS Node	Length (m)	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	US Depth (m)	DS Depth (m)
S20.000	S20-0	S20-1	3.840	46.040	46.000	0.040	95.0	450	1.200	1.240
S20.001	S20-1	S20-2	8.557	46.000	45.910	0.090	95.0	450	1.240	1.640
S20.002	S20-2	S20-3_POND	4.764	45.901	45.800	0.101	47.2	450	1.649	1.750

**NOTE:**

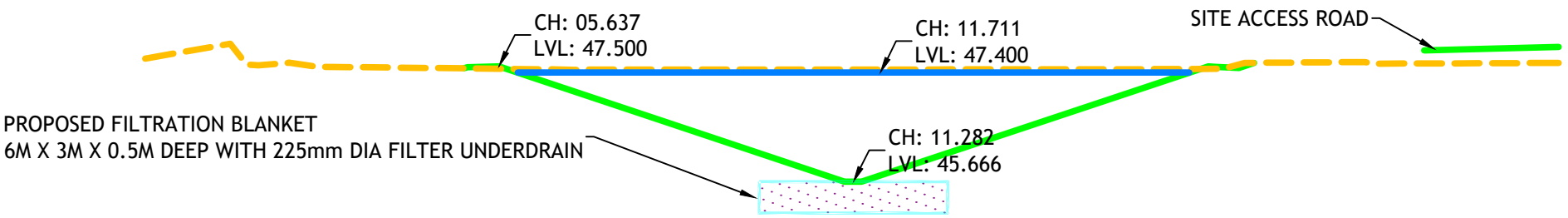
POND TO BE LINED DUE TO GROUND CONDITIONS. GROUND INVESTIGATIONS HAVE CONFIRMED POOR INFILTRATION POTENTIAL DUE TO CLAY OVERBURDEN.

REFER TO PUNCH ENGINEERING PLANNING REPORT FOR FURTHER DISCUSSION ON EXISTING GROUND CONDITIONS



Proposed Levels	46.773		
Existing Levels	47.764	47.437	47.950
Chainage	00.000	10.000	18.845

AL 2- LONGSECTION

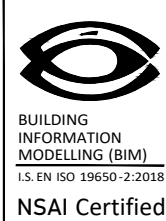


Proposed Levels	46.045		
Existing Levels	47.692	47.448	47.544
Chainage	00.000	10.000	22.511

AL 1 - LONGSECTION

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Rev	Amendment	By	Date	Rev	Amendment	By	Date
C01	STAGE 2 LRD SUBMISSION	RD	2024-03-07				
C02	STAGE 3 LRD SUBMISSION	DAP	2024-08-02				
C03	STAGE 3 LRD SUBMISSION	DAP	2024-09-24				
C04	STAGE 3 LRD SUBMISSION	DAP	2024-11-01				
C05	STAGE 3 LRD SUBMISSION	DAP	2024-12-06				

Rev	Amendment	By	Date	Rev	Amendment	By	Date

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Project: FORTFIELD ROAD, TERENURE, DUBLIN 6W			
Title: PLUVIAL FLOODING DETENTION BASIN			
Drawn: RD	Date drawn: FEBRUARY 2024	Technician Check: DP	Engineer Check: C. SHANNON
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