

NOTES

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- ALL LEVELS ARE REFERENCED TO THE MALIN HEAD DATUM.
- THE COORDINATE SYSTEM IS BASED ON THE IRISH TRANSVERSE MERCATOR.


LEGEND

- PROPERTY BOUNDARY LINE
- PROPOSED FOUL WATER CONNECTION FROM BUILDING
- PROPOSED 150mm 225mm Ø FOUL WATER CONNECTION
- PROPOSED FOUL SEWER ACCESS JUNCTION
- PROPOSED FOUL SEWER MANHOLE
- EXISTING FOUL SEWER MAIN (SECTION TO BE RE-ROUTED TO AVOID CLASH WITH PROPOSED HOUSING DEVELOPMENT)
- PROPOSED 100mm Ø STORMWATER PIPE
- PERFORATED 100mm Ø PIPE WITHIN SUDS COMPONENT ONLY
- PROPOSED CHANNEL DRAIN
- PROPOSED ACCESS JUNCTION
- PROPOSED SURFACE WATER BIG TEE
- PROPOSED SURFACE WATER ROAD GULLY
- PROPOSED SURFACE WATER MANHOLE
- PROPOSED RAINWATER DOWNPIPE
- PROPOSED OIL SEPARATOR
- PROPOSED 150mm Ø WATER SUPPLY RING MAIN
- PROPOSED WATER SUPPLY CONNECTION PIPE TO UNITS WITH BOUNDARY BOX
- PROPOSED WATER SUPPLY SLUICE VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER METER
- PROPOSED 150mm Ø OR LARGER SURFACE WATER PIPE
- LINEAR FILTER DRAIN
- TREE PITS
- RAINGARDEN
- RAINGARDEN OVERFLOW PIPE
- SWALES
- RAINGARDEN PIPES

P05	21.10.2024	ISSUED FOR INFORMATION	ND	NS	NS
P04	16.08.2024	ISSUED FOR INFORMATION	FW	NS	NS
P03	11.01.2024	ISSUED FOR INFORMATION	FW	NS	NS
P02	23.11.2023	ISSUED FOR INFORMATION	FW	NS	NS
P01	03.11.2023	ISSUED FOR INFORMATION	FW	NS	NS
REV	DATE	DESCRIPTION	D	C	A

PROJECT No.	STAGE
80196	PLANNING


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NICHOLAS O'DWYER
an RSK company

Unit E4, Nutgrove Office Park,
Nutgrove Avenue, Dublin 14
T +353 1 296 9000
F +353 1 296 9001
E dublin@nodwyer.com
W www.nodwyer.com

CLIENT



cluid housing

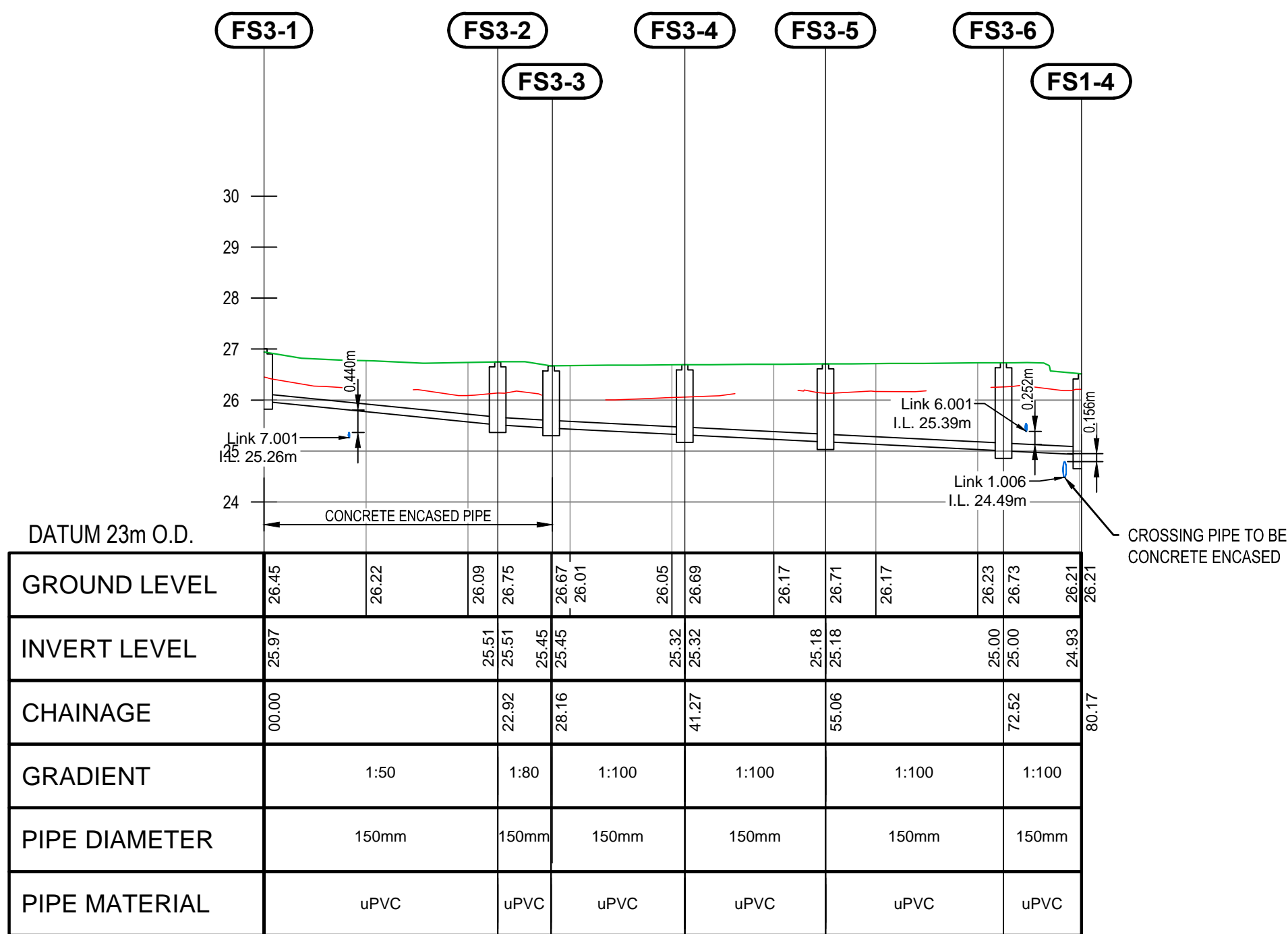
PROJECT

CLUID HOUSING LEIXLIP

TITLE

COMBINED SERVICES LAYOUT PLAN

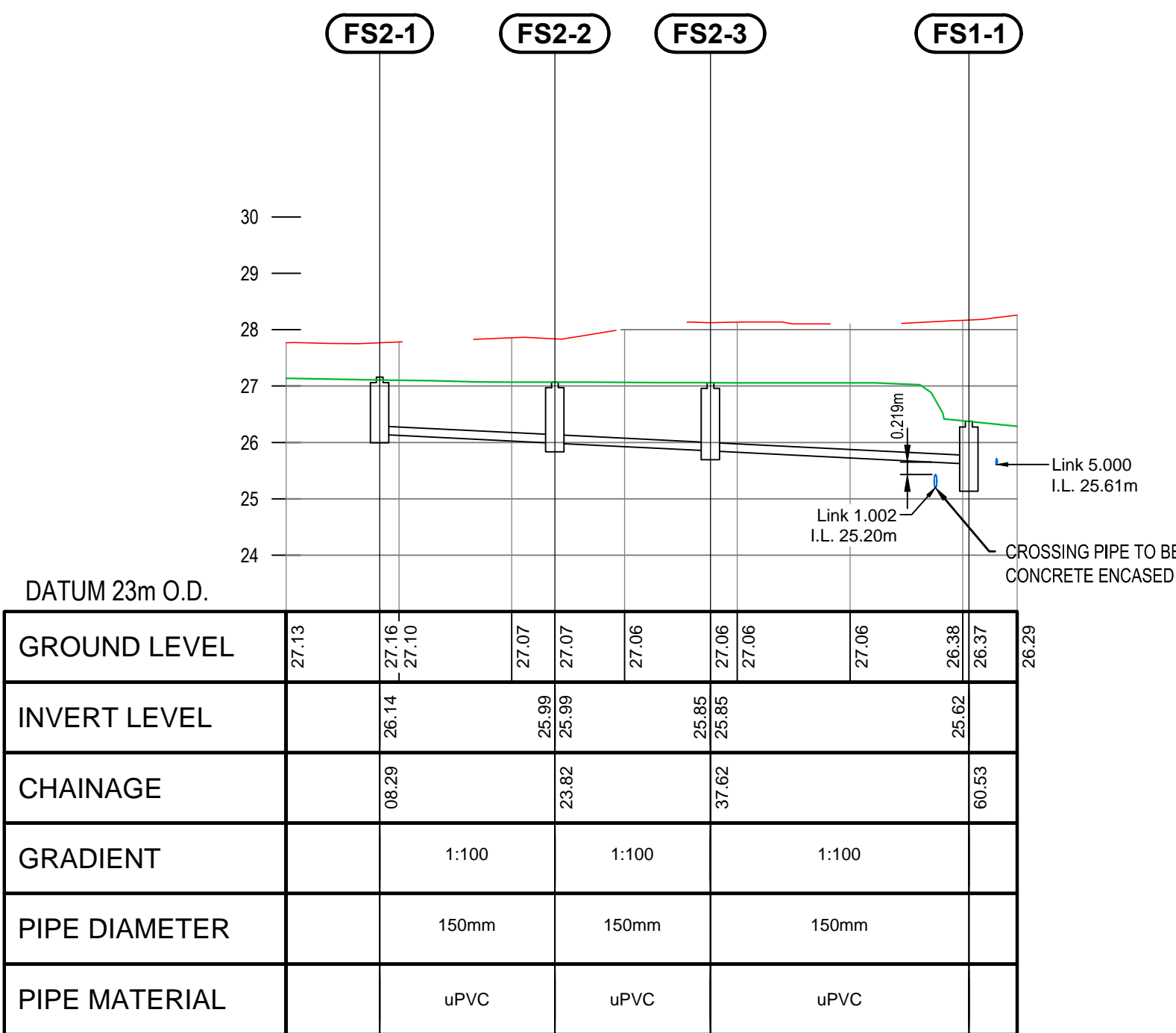
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1:500	N. Duma	N. Skelton	N. Skelton
DATE	21.10.2024	21.10.2024	21.10.2024
SUITABILITY CODE	S2		
INFORMATION			
DRAWING No.	80169-NOD-01-XX-DR-C-08201		
REVISION	P05		



LONGITUDINAL SECTION FOUL SEWER LINE 3: 0m - 80m

V Scale: 1:50

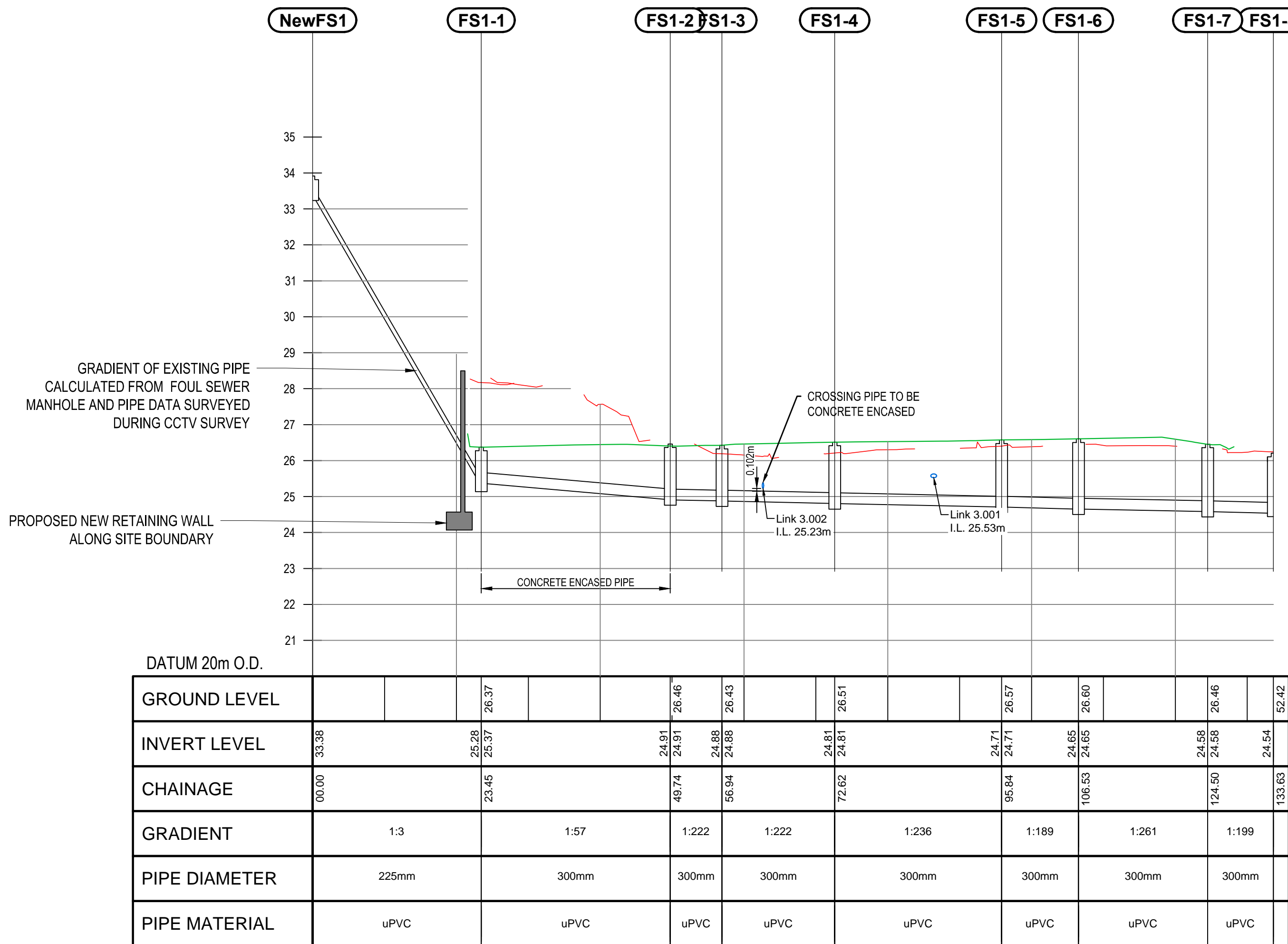
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LONGITUDINAL SECTION FOUL SEWER LINE 2: 0m - 65m

V Scale: 1:50

H Scale: 1:250



LONGITUDINAL SECTION FOUL SEWER LINE 1: 0m - 136m

V Scale: 1:50

H Scale: 1:250

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- THE COORDINATE SYSTEM IS BASED ON THE IRISH TRANSVERSE MERCATOR.
- REFER TO ARCHITECTURAL LAYOUTS FOR CLIENT OWNERSHIP BOUNDARY AND BUILDING DIMENSIONS.
- FOUL SEWER MATERIAL TO BE uPVC AND IN ACCORDANCE TO IRISH WASTEWATER CODE OF PRACTICE.
- COVER TO FOUL SEWER MAIN TO BE MINIMUM 1.2m UNDER ROADS AND 0.9m UNDER GRASSED AREAS AND FOOTPATHS TO BE 150mm CONCRETE.
- ALL COVERS IN PUBLIC AREAS TO BE D400 COVER AND FRAME UNLESS OTHERWISE NOTED.
- ALL MATERIALS PROPOSED FOR USE ON SITE TO BE APPROVED PRIOR TO ARRIVAL ON SITE.

LEGEND

- EXISTING GROUND PROFILE
- PROPOSED FINISHED SURFACE PROFILE

P04	16.08.2024	ISSUED FOR INFORMATION	FW	NS	NS
P03	23.01.2024	ISSUED FOR INFORMATION	FW	NS	NS
P02	23.11.2023	ISSUED FOR INFORMATION	FW	NS	NS
P01	03.11.2023	ISSUED FOR INFORMATION	FW	NS	NS
REV	DATE	DESCRIPTION	D	C	A

PROJECT No.	STAGE
80196	PLANNING

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NICHOLAS O'DWYER
an RSK company

Unit E4, Nutgrove Office Park,
Nutgrove Avenue, Dublin 14
T +353 1 296 9000
F +353 1 296 9001
E dublin@nodwyer.com
W www.nodwyer.com

CLIENT
Chancery Lane, Dublin 8, D08 C98X T +353 1 707 2088 E cluid@cluid.ie

PROJECT
CLUID HOUSING LEIXLIP



TITLE
FOUL SEWER LONGITUDINAL SECTIONS

SCALES @ A1	DRAWN	CHECKED	APPROVED
1:500	F. Walil	N. Skelton	N. Skelton
DATE	DATE	DATE	DATE
03.11.2023	03.11.2023	03.11.2023	03.11.2023

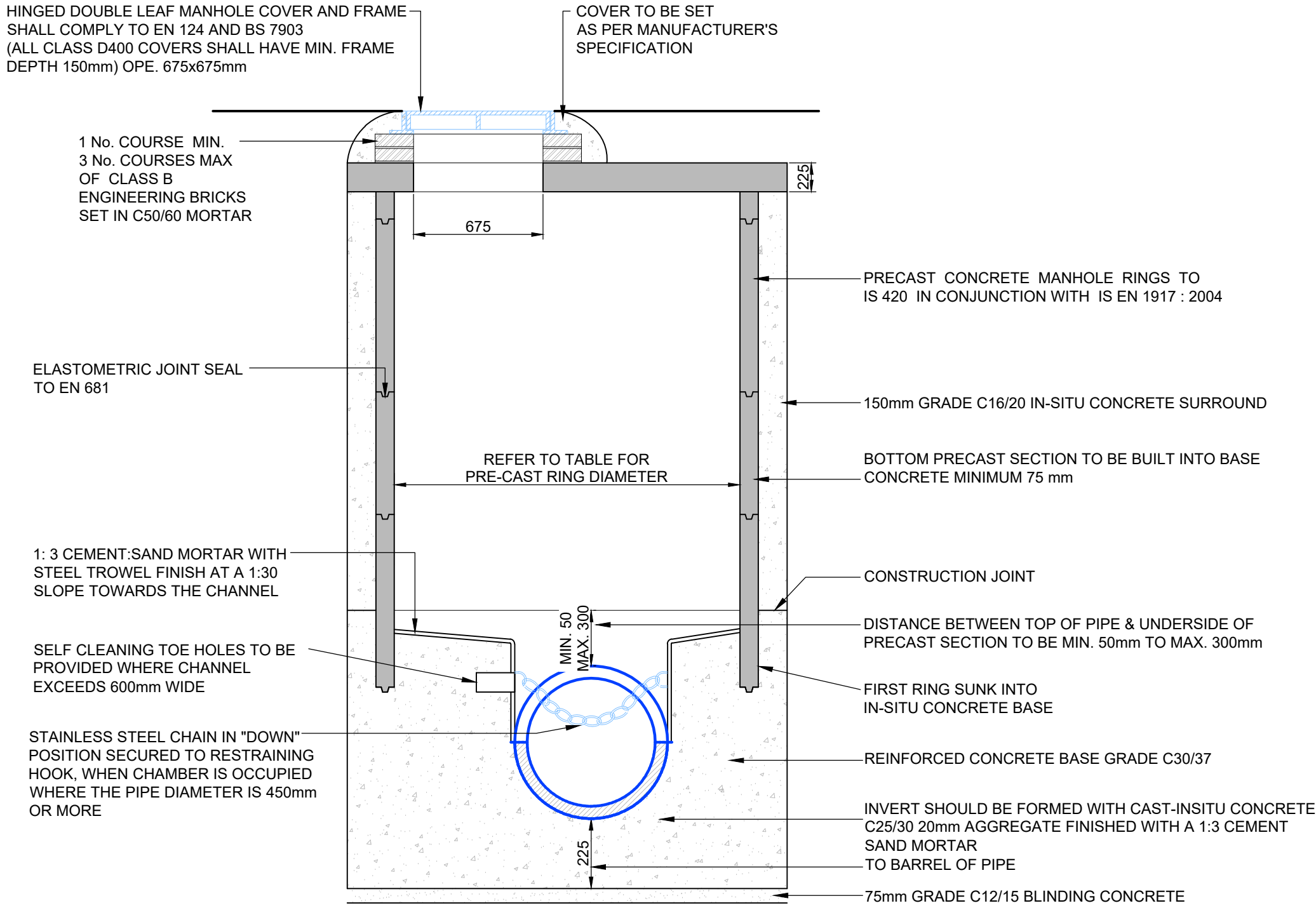
SUITABILITY CODE	SUITABILITY DESCRIPTION
S2	INFORMATION

DRAWING No.	REVISION
80169-NOD-01-XX-DR-C-08302	P04

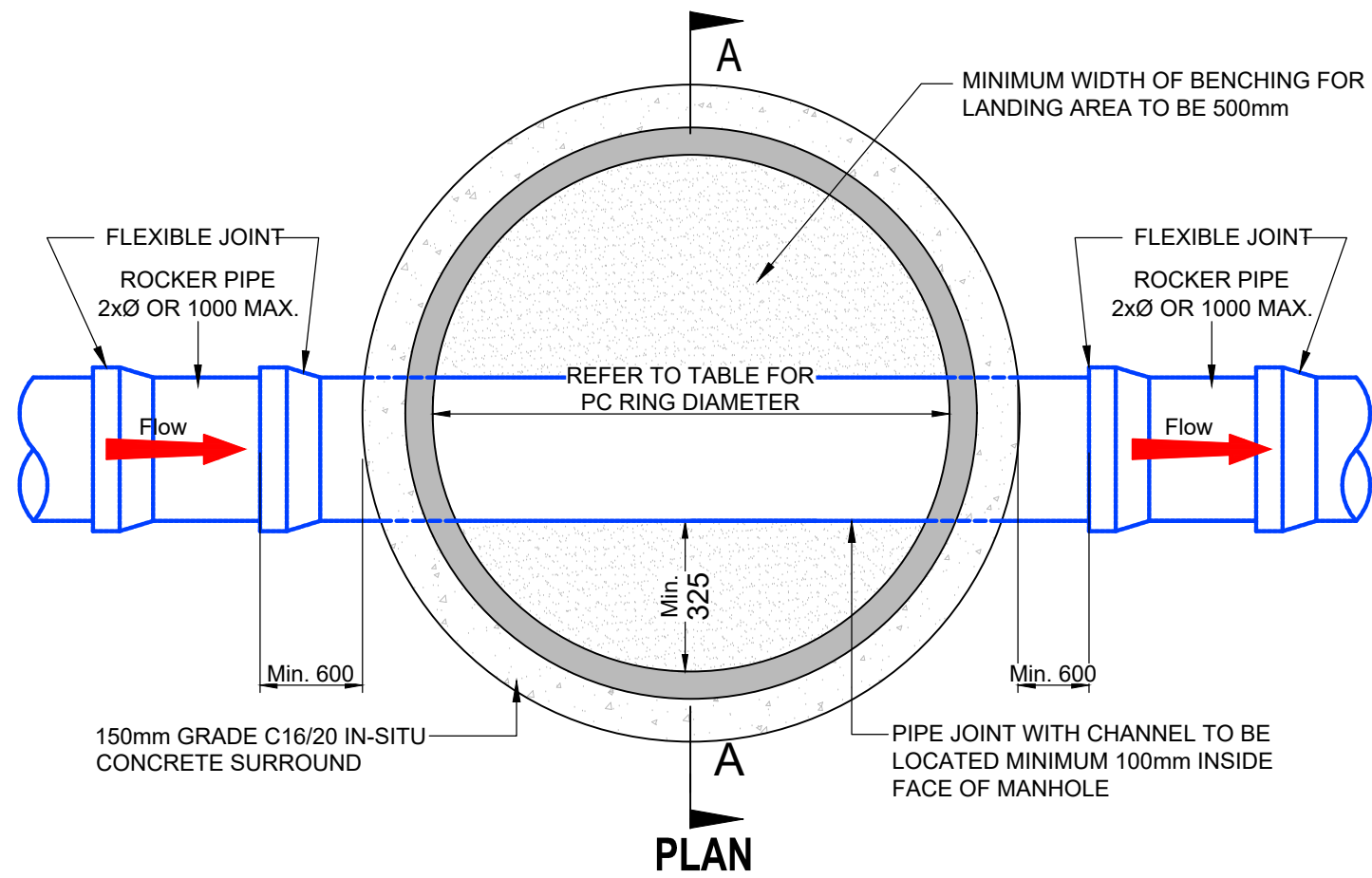


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<p>CLIENT</p>			
 <p>Dublin 8, DOB 678X</p>		<p>T + 353 1 707 2088 E cluid@cluid.ie</p>	
<p>PROJECT</p>			
<p>CLUID HOUSING LEIXLIP</p>			
<p>TITLE</p>			
<p>FOUL SEWER EXISTING MAIN LONGITUDINAL SECTIONS</p>			
<p>SCALES @ A1</p> <p>1:500</p>	<p>DRAWN F. Wallil</p> <p>DATE 03.11.2023</p>	<p>CHECKED N. Skelton</p> <p>DATE 03.11.2023</p>	<p>APPROVED N. Skelton</p> <p>DATE 03.11.2023</p>
<p>SUITABILITY CODE</p> <p>S2</p>	<p>SUITABILITY DESCRIPTION</p> <p>INFORMATION</p>		
<p>DRAWING No.</p> <p>80169-NOD-01-XX-DR-C-08303</p>			<p>REVISION</p> <p>P03</p>

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. PRE-CAST MANHOLES UNITS: COMPLYING WITH REQUIREMENTS OF IS EN 1917 AND BS 5911-PART 3.
3. THICKER MANHOLE BASES REQUIRED FOR SEWERS IN EXCESS OF 3m DEEP WHERE THE SIZE IS GREATER THAN THE STANDARD MINIMUM SIZE.
4. APPROVED PRE-CAST CONCRETE BASES MAY BE USED INCORPORATING CHANNELS, BENCHING ETC. SUBJECT TO IRISH WATER APPROVAL AND COMPLYING WITH BS 5911-PART 4: 2002.
5. STRUCTURAL DESIGN AND REINFORCEMENT DETAILS TO BE PROVIDED BY THE DEVELOPER FOR REVIEW FROM IRISH WATER.
6. MANHOLES GREATER THAN 3m IN DEPTH WILL REQUIRE A DETAILED STRUCTURAL DESIGN AND BE SUBJECT TO IRISH WATER APPROVAL.
7. MANHOLE ROOFS SHOULD CONSIST OF RE-INFORCED CONCRETE SLAB OF IN-SITU CONCRETE, C30/37, WITH A MINIMUM THICKNESS OF 225mm DESIGNED TO CARRY ALL LIVE AND DEAD LOADS, ALTERNATIVELY, APPROVED PRE-CAST CONCRETE ROOF SLABS MAY BE USED SUBJECT TO IRISH WATER APPROVAL AND COMPLIANCE WITH BS 5911 PART 4: 2002.
8. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO APPROVAL FROM IRISH WATER.
9. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND COVERS IN GREEN AREAS.
10. ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANTI FLOATATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO APPROVAL FROM IRISH WATER.
11. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206 : 2013.

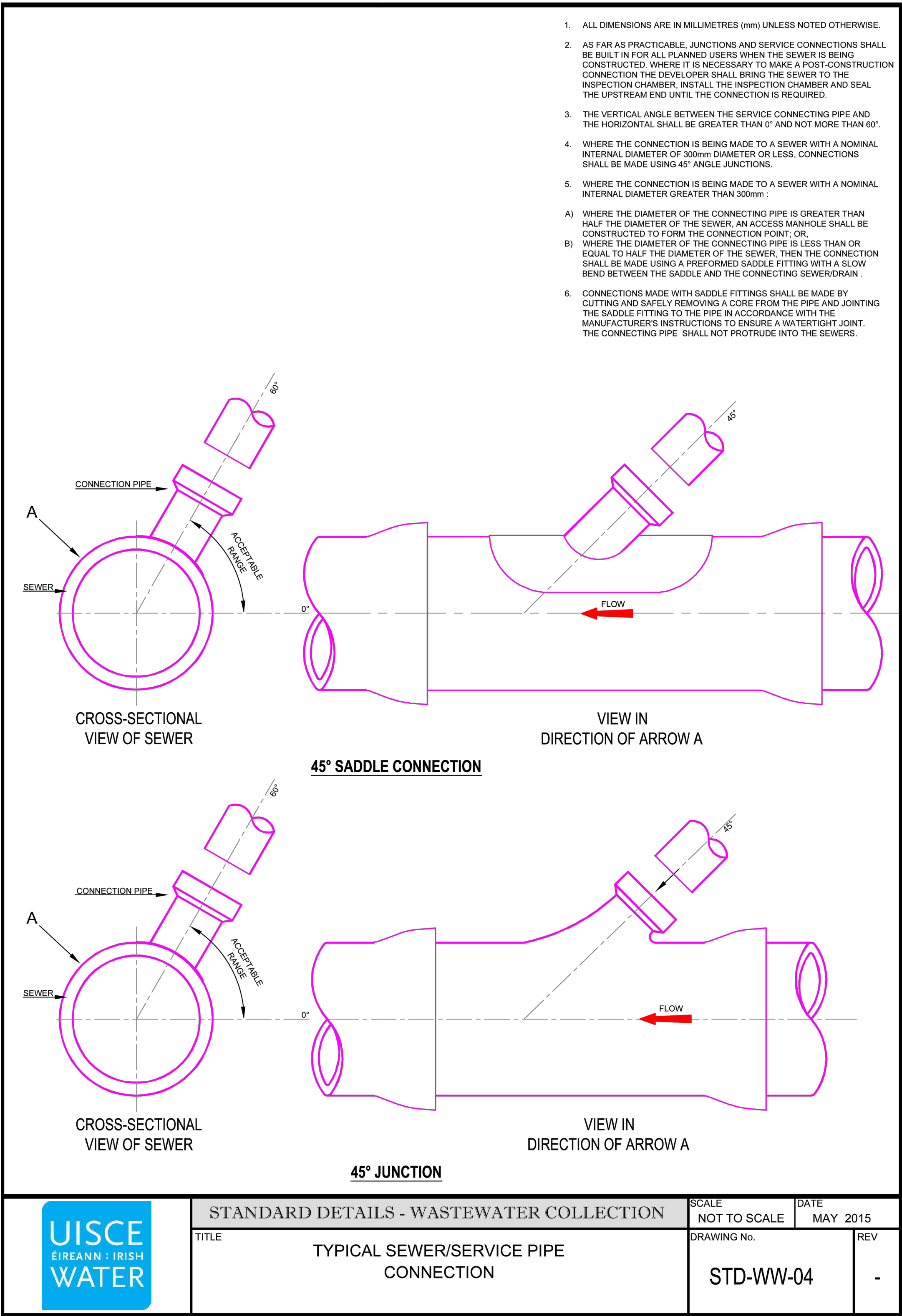


SECTION A-A



MINIMUM MANHOLE DIAMETERS	
DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)
LESS THAN 375	1200
375 TO 450	1350
500 TO 700	1500

PRE-CAST CONCRETE MANHOLE



STANDARD DETAILS - WASTEWATER COLLECTION

SCALE NOT TO SCALE DATE MAY 2015

TITLE TYPICAL SEWER/SERVICE PIPE CONNECTION

DRAWING No. STD-WW-04

REV -


NOTES

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3. THE COORDINATE SYSTEM IS BASED ON THE IRISH TRANSVERSE MERCATOR
4. REFER TO ARCHITECTURAL LAYOUTS FOR CLIENT OWNERSHIP BOUNDARY AND BUILDING DIMENSIONS.
5. FOUL SEWER MATERIAL TO BE UPVC AND IN ACCORDANCE TO IRISH WASTEWATER CODE OF PRACTICE.
6. COVER TO FOUL SEWER MAIN TO BE MINIMUM 1.2M UNDER ROADS AND 0.9M UNDER GRASSED AREAS AND FOOTPATHS TO BE 150MM CONCRETE.
7. ALL COVERS IN PUBLIC AREAS TO BE D400 COVER AND FRAME UNLESS OTHERWISE NOTED.
8. ALL MATERIALS PROPOSED FOR USE ON SITE TO BE APPROVED PRIOR TO ARRIVAL ON SITE.

P01	03.11.2023	ISSUED FOR INFORMATION	FW	NS	NS
REV	DATE	DESCRIPTION	D	C	A

PROJECT No. 80196	STAGE PLANNING
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W www.nodwyer.com

CLIENT



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E cluid@cluid.ie

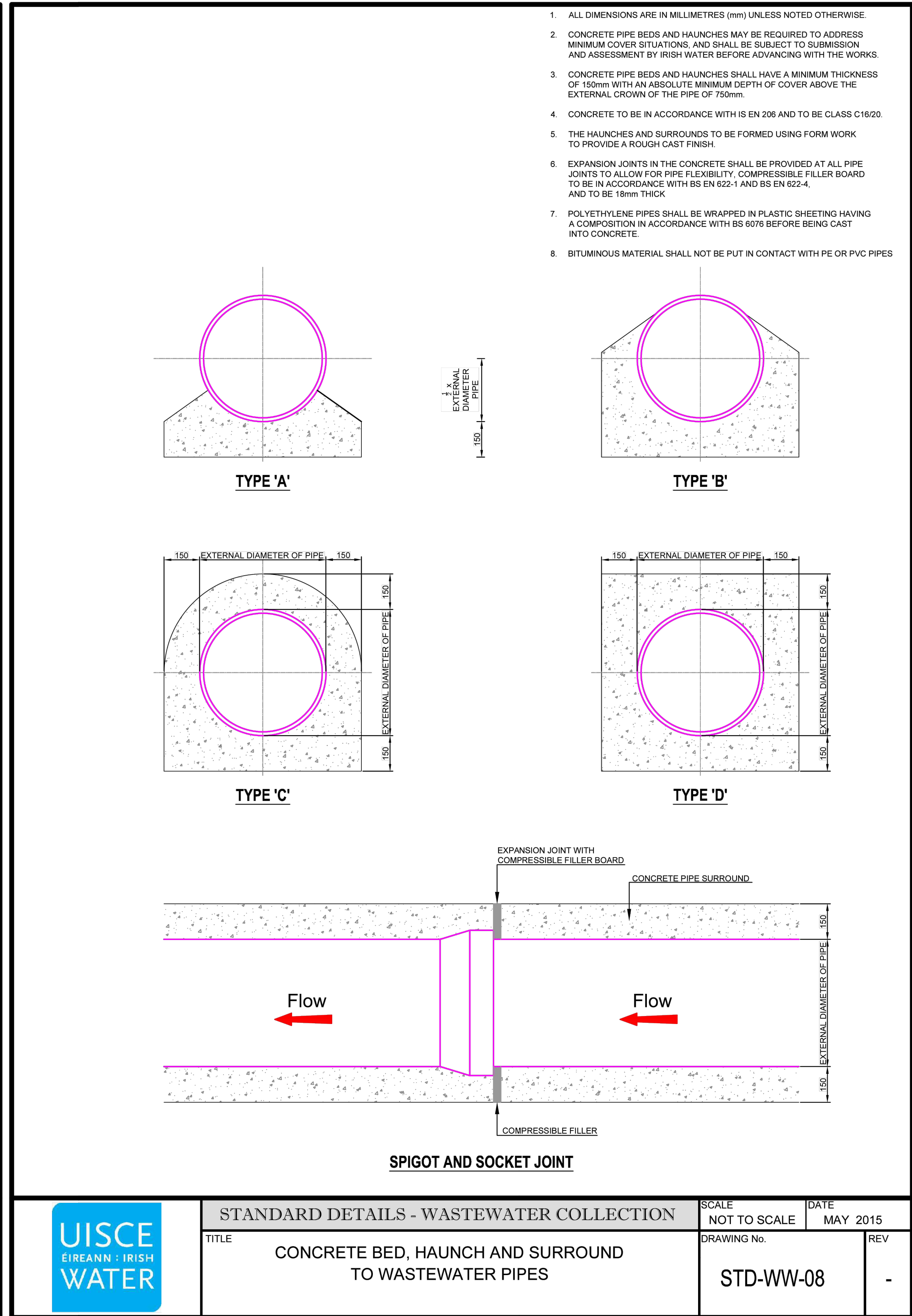
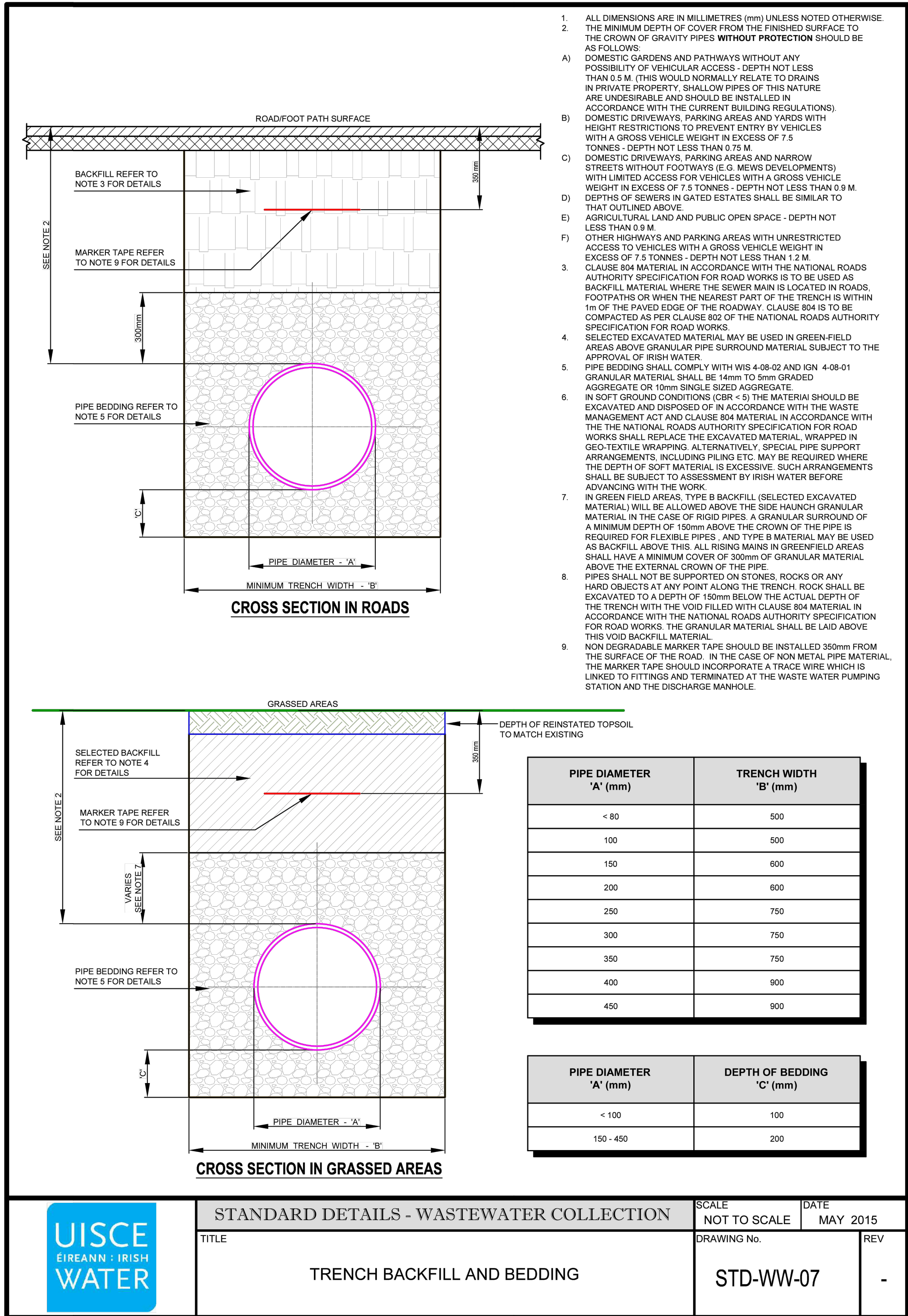
PROJECT CLUID HOUSING LEIXLIP

TITLE FOUL SEWER STANDARD DETAILS SHEET 1

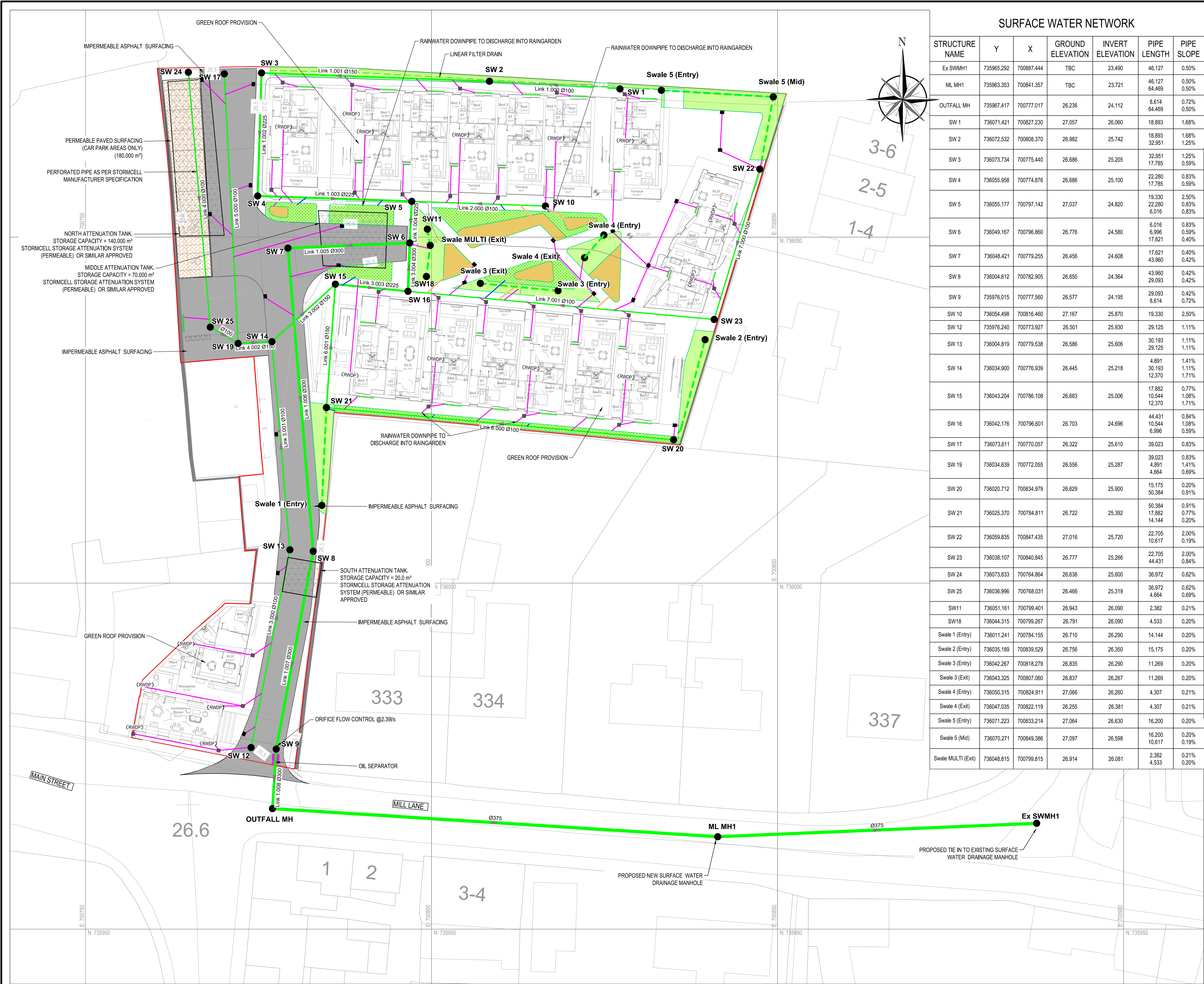
SCALES @ A1 1:500	DRAWN F. Wallil DATE 03.11.2023	CHECKED N. Skelton DATE 03.11.2023	APPROVED N. Skelton DATE 03.11.2023
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SUITABILITY CODE S2	SUITABILITY DESCRIPTION INFORMATION
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DRAWING No. 80169-NOD-01-XX-DR-C-08310	REVISION P01
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NOTES									
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SURFACE WATER NETWORK

STRUCTURE NAME	Y	X	GROUND ELEVATION	INVERT ELEVATION	PIPE LENGTH	PIPE SLOPE
Ex SWMH1	735965.292	700887.444	TBC	23.490	46.127	0.50%
ML MH1	735963.353	700841.357	TBC	23.721	46.127	0.50%
OUTFALL MH	735967.417	700777.017	26.236	24.112	8.614	0.72%
SW 1	736071.421	700827.230	27.057	26.060	18.893	1.68%
SW 2	736072.532	700808.370	26.982	25.742	18.893	1.68%
SW 3	736073.734	700775.440	26.686	25.205	32.951	1.25%
SW 4	736055.958	700774.876	26.686	25.100	22.280	0.83%
SW 5	736055.177	700797.142	27.037	24.820	19.330	2.50%
SW 6	736049.167	700796.860	26.776	24.580	6.016	0.83%
SW 7	736048.421	700779.255	26.456	24.608	6.996	0.59%
SW 8	736004.612	700782.905	26.650	24.364	17.621	0.40%
SW 9	735976.015	700777.560	26.577	24.195	29.093	0.42%
SW 10	736054.498	700816.460	27.167	25.870	8.614	0.72%
SW 12	735976.240	700773.927	26.501	25.930	29.125	1.11%
SW 13	736004.819	700779.538	26.586	25.606	30.193	1.11%
SW 14	736034.900	700776.939	26.445	25.218	4.891	1.41%
SW 15	736043.204	700786.108	26.683	25.006	30.193	1.11%
SW 16	736042.176	700796.601	26.703	24.696	12.370	1.71%
SW 17	736073.611	700770.057	26.322	25.610	10.544	0.84%
SW 19	736034.639	700772.055	26.556	25.287	6.996	0.59%
SW 20	736020.712	700834.979	26.629	25.900	44.431	1.08%
SW 21	736025.370	700784.811	26.722	25.392	10.544	1.08%
SW 22	736059.835	700847.435	27.016	25.720	10.544	1.08%
SW 23	736038.107	700840.845	26.777	25.266	6.996	0.59%
SW 24	736073.833	700764.864	26.638	25.600	39.023	0.83%
SW 25	736036.996	700768.031	26.466	25.319	4.891	1.41%
SW11	736051.161	700799.401	26.943	26.090	50.384	0.91%
SW18	736044.315	700799.267	26.791	26.090	17.882	0.77%
Swale 1 (Entry)	736011.241	700784.155	26.710	26.290	14.144	0.20%
Swale 2 (Entry)	736035.189	700839.529	26.756	26.350	15.175	0.20%
Swale 3 (Entry)	736042.267	700818.279	26.835	26.290	11.269	0.20%
Swale 3 (Exit)	736043.325	700807.060	26.837	26.267	11.269	0.20%
Swale 4 (Entry)	736050.315	700824.911	27.066	26.260	4.307	0.21%
Swale 4 (Exit)	736047.035	700822.119	26.255	26.381	4.307	0.21%
Swale 5 (Entry)	736071.223	700833.214	27.064	26.630	16.200	0.20%
Swale 5 (Mid)	736070.271	700849.386	27.097	26.598	16.200	0.20%
Swale MULTI (Exit)	736048.815	700799.815	26.914	26.081	4.533	0.20%


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LEGEND

	PROPERTY BOUNDARY LINE
	PROPOSED 100mm Ø SURFACE WATER PIPE
	PERFORATED 100mm Ø PIPE WITHIN SUGS COMPONENT ONLY
	PROPOSED 150mm Ø OR LARGER SURFACE WATER PIPE
	PROPOSED CHANNEL DRAIN
	PROPOSED ACCESS JUNCTION
	PROPOSED SURFACE WATER BIG TEE
	PROPOSED SURFACE WATER ROAD GULLY
	PROPOSED SURFACE WATER MANHOLE
	PROPOSED RAINWATER DOWNPIPE
	PROPOSED OIL SEPARATOR
	LINEAR FILTER DRAIN
	TREE PITS
	RAINGARDEN
	RAINGARDEN OVERFLOW PIPE
	SWALES
	RAINGARDEN PIPES

P04	21.10.2024	ISSUED FOR INFORMATION	ND	NS	NS
P03	16.08.2024	ISSUED FOR INFORMATION	FW	NS	NS
P02	11.01.2024	ISSUED FOR INFORMATION	FW	NS	NS
P01	03.11.2023	ISSUED FOR INFORMATION	FW	NS	NS
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PROJECT No.		STAGE			
80196		PLANNING			

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T +353 1 296 9000
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E dublin@nodwyer.com
W www.nodwyer.com

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T +353 1 767 2088
E cluid@cluid.ie

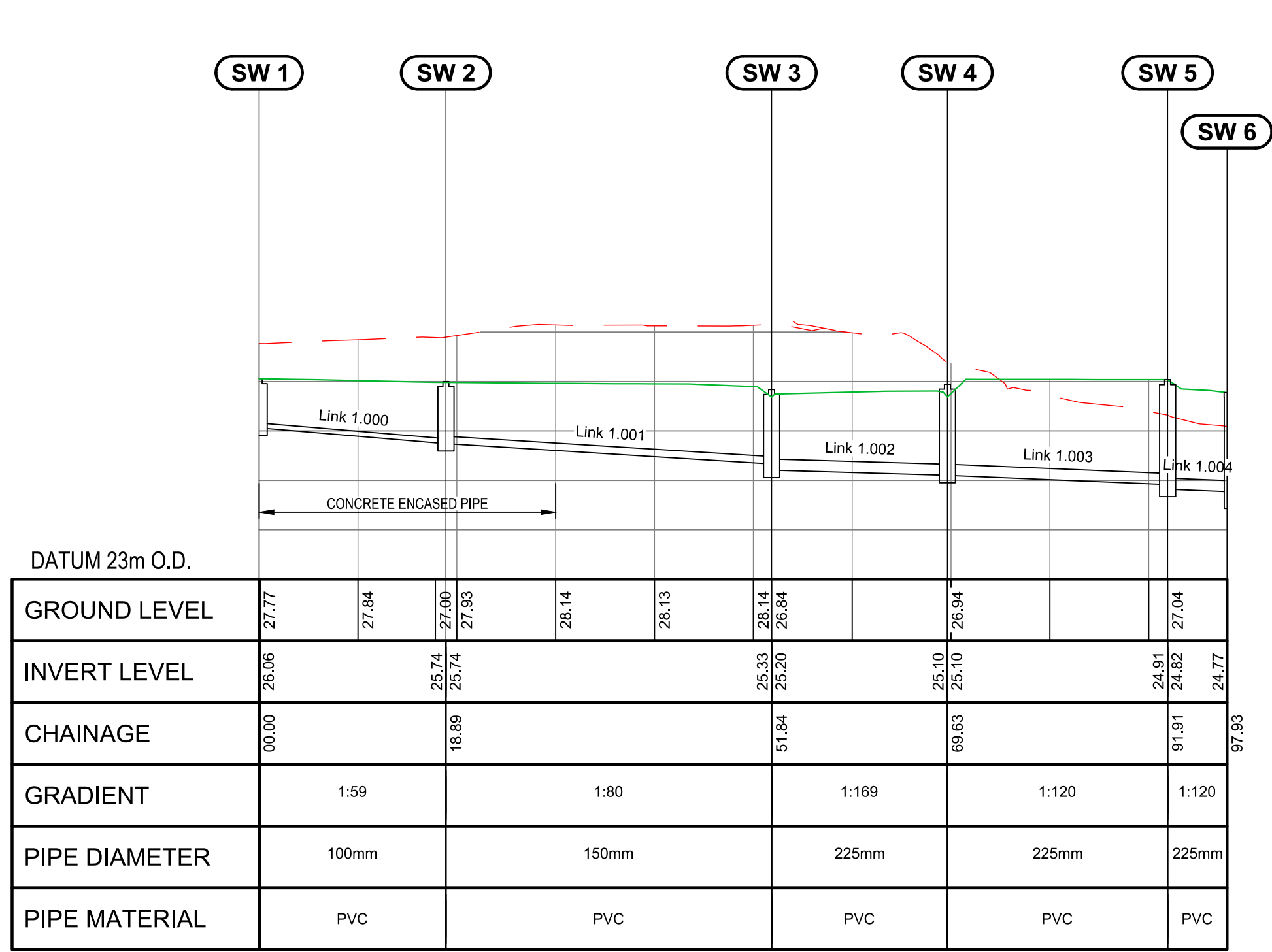
PROJECT

CLUID HOUSING LEIXLIP

TITLE

SURFACE WATER LAYOUT PLAN

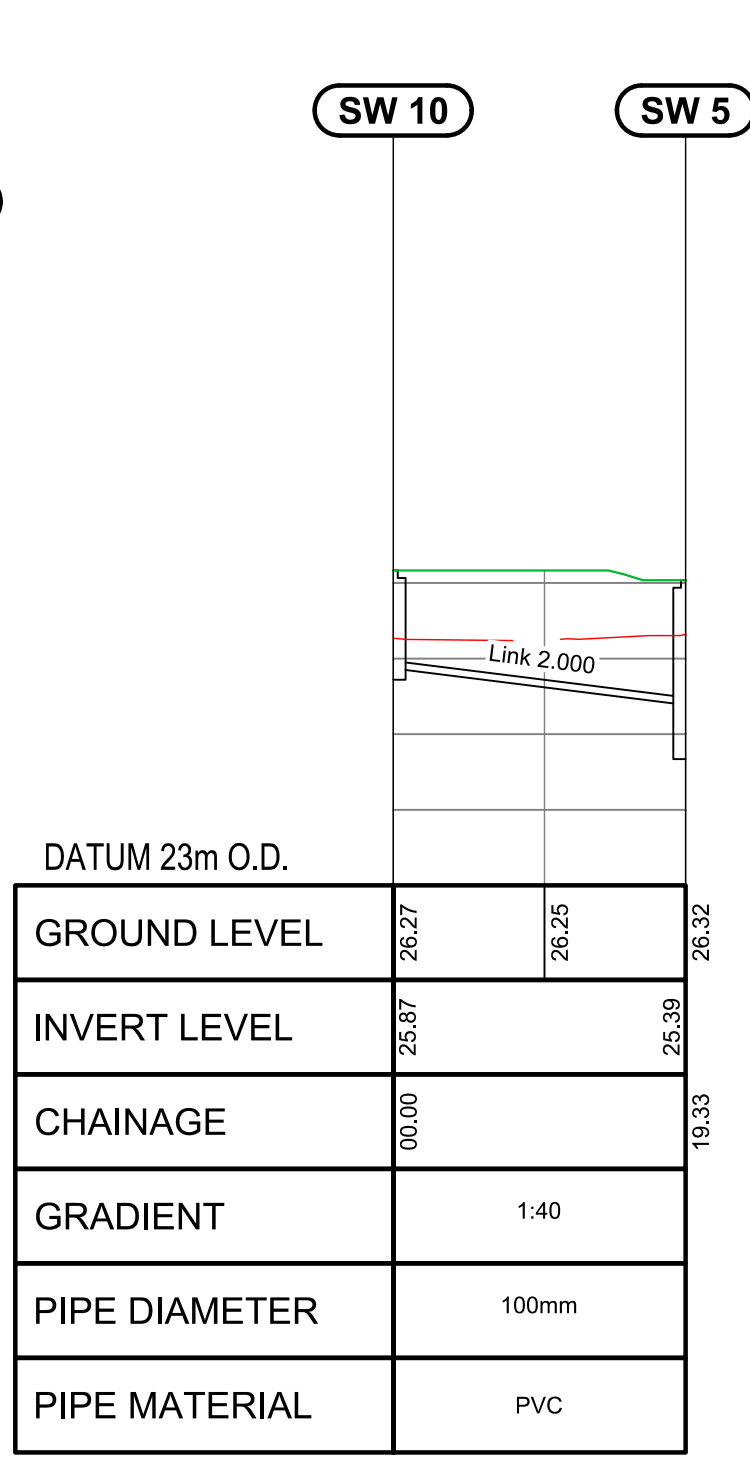
SCALES @ A1	DRAWN	CHECKED	APPROVED
1:250	N. Duma	N. Skelton	N. Skelton
DATE	DATE	DATE	DATE
21.10.2024	21.10.2024	21.10.2024	21.10.2024
SUITABILITY CODE	INFORMATION		
S2			
DRAWING No.	80169-NOD-01-XX-DR-C-08401		REVISION
			P04



LONGITUDINAL SECTION SURFACE WATER LINE 1: 0m - 98m

V Scale: 1:50

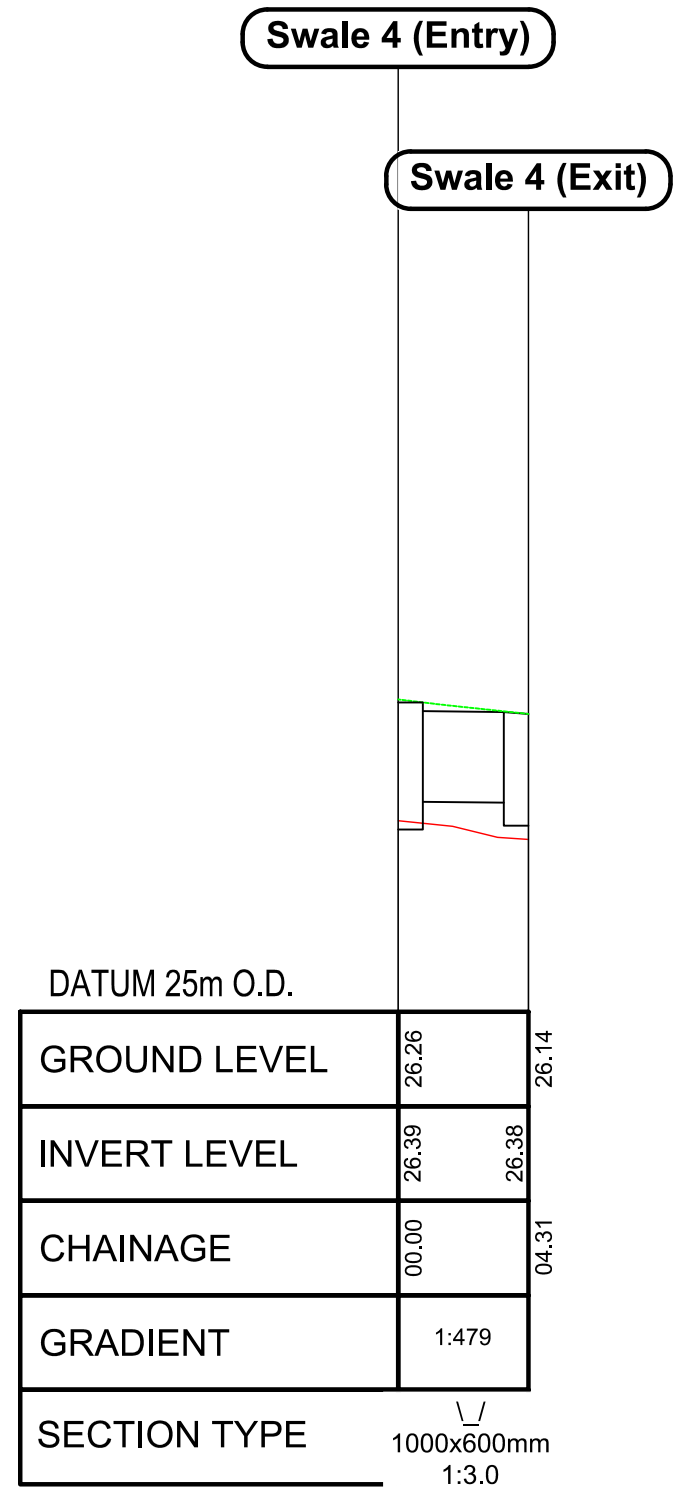
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LONGITUDINAL SECTION SURFACE WATER LINE 2: 0m - 19m

V Scale: 1:50

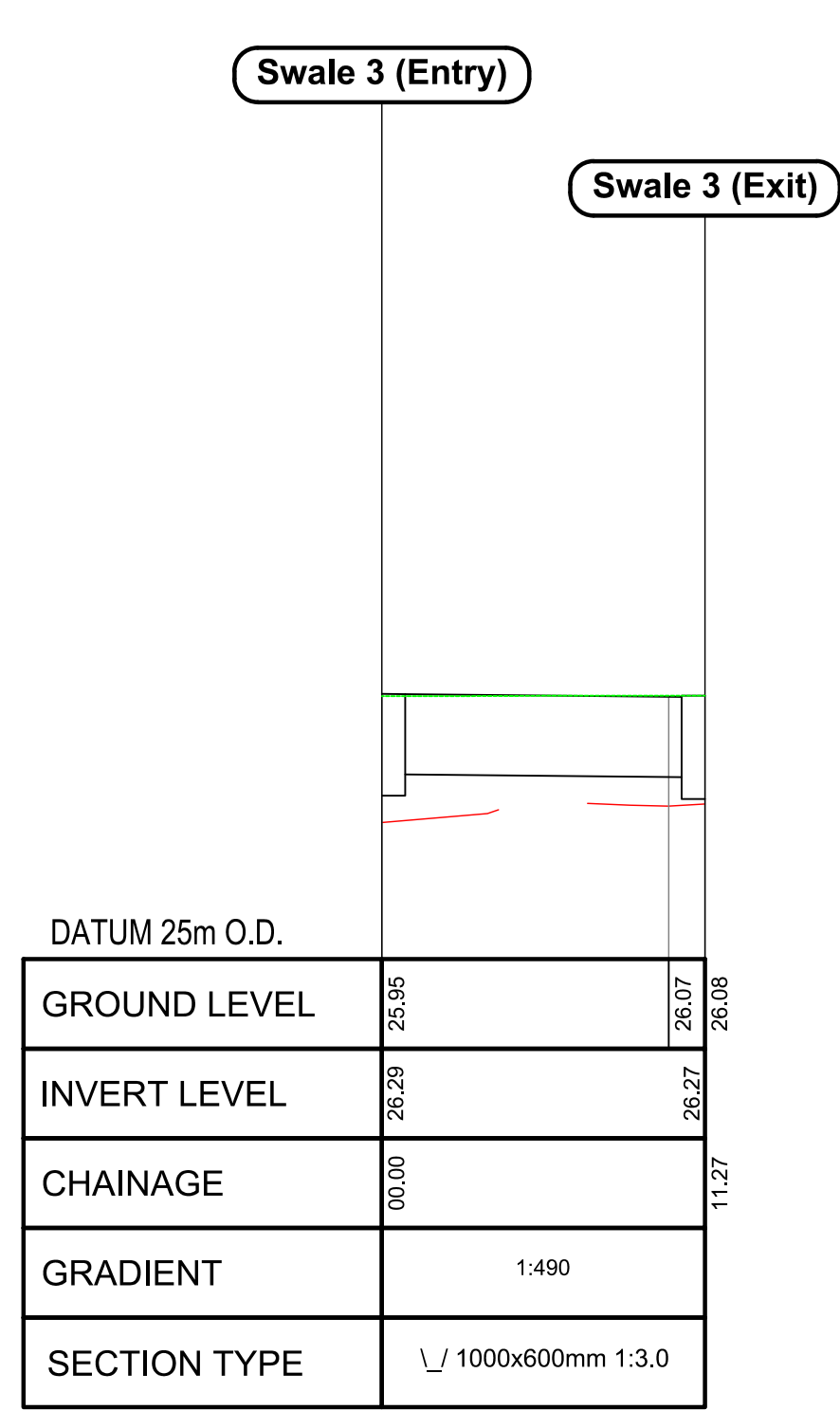
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LONGITUDINAL SECTION Swale Line 1

V Scale: 1:50

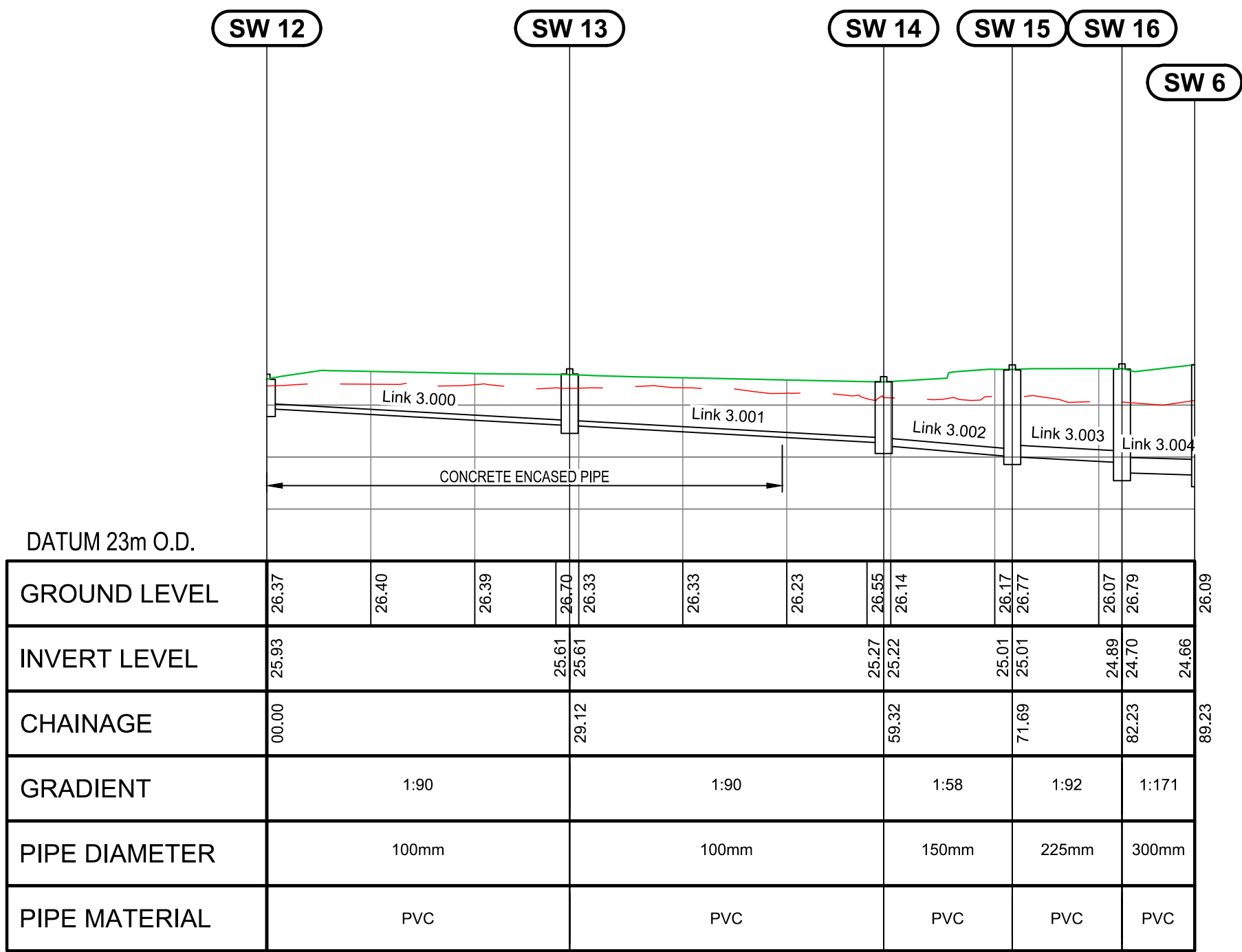
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LONGITUDINAL SECTION Swale Line 2

V Scale: 1:50

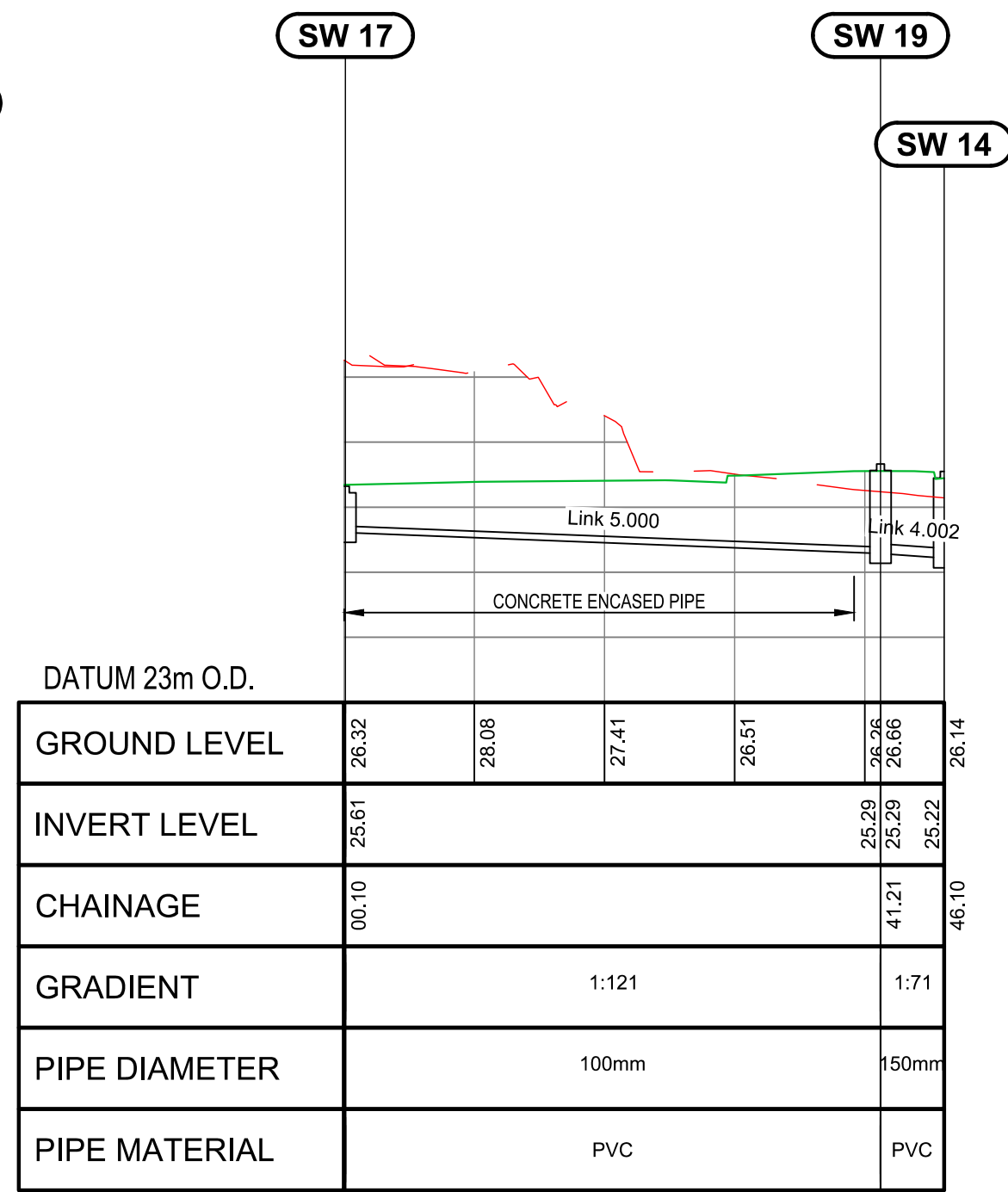
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LONGITUDINAL SECTION SURFACE WATER LINE 3: 0m - 89m

V Scale: 1:50

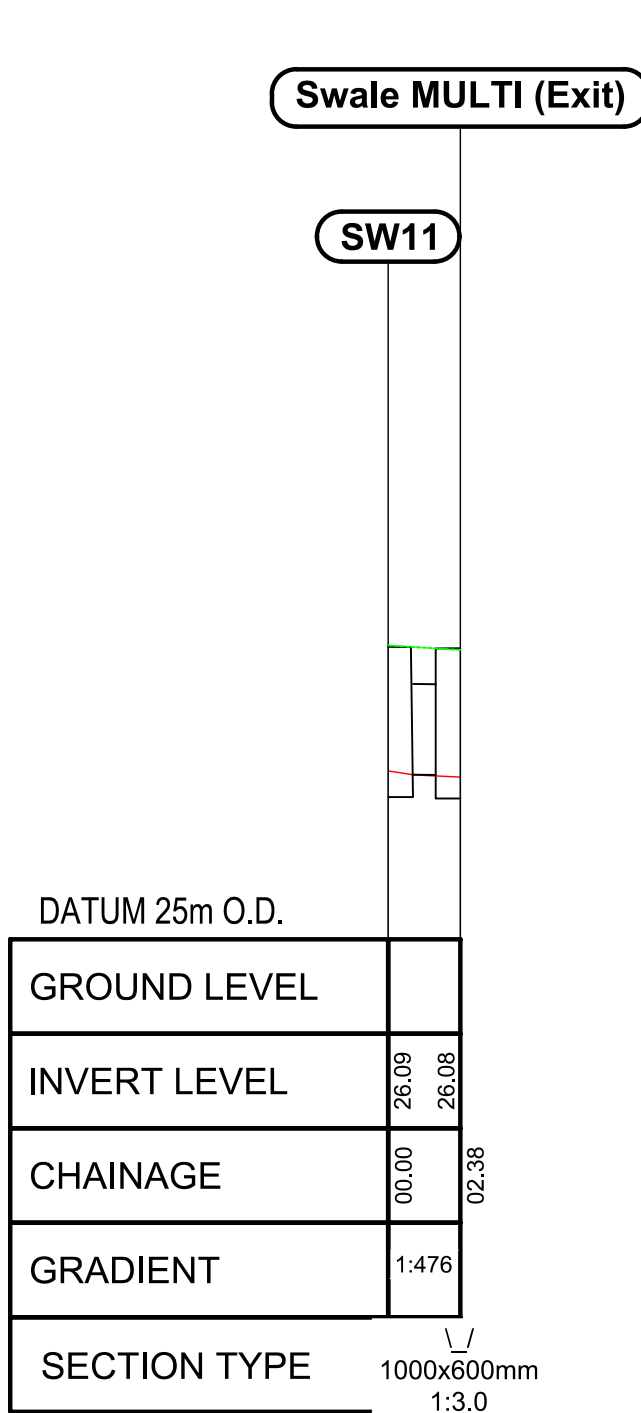
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LONGITUDINAL SECTION SURFACE WATER LINE 4: 0m - 46m

V Scale: 1:50

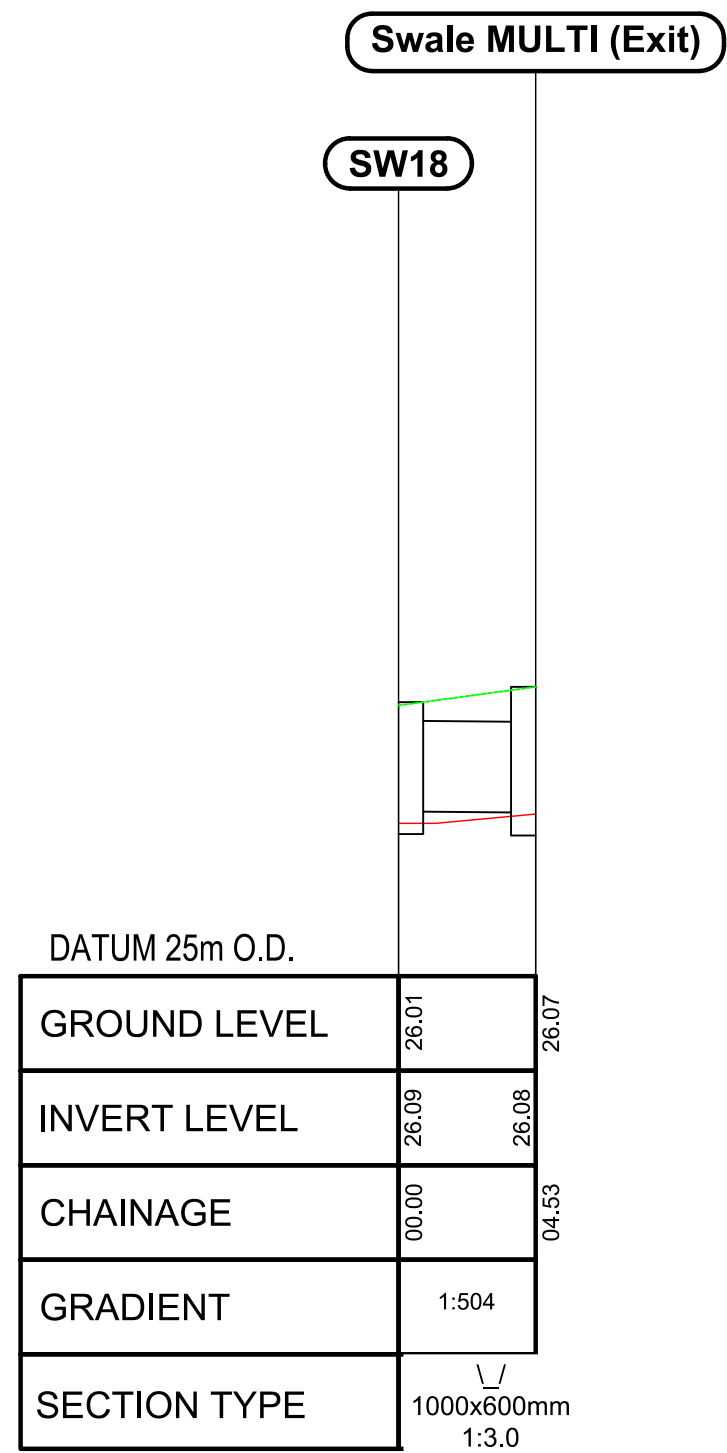
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LONGITUDINAL SECTION Swale Line 4

V Scale: 1:50

H Scale: 1:250



LONGITUDINAL SECTION Swale Line 3

V Scale: 1:50

H Scale: 1:250


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 - THE COORDINATE SYSTEM IS BASED ON THE IRISH TRANSVERSE MERCATOR.
 - REFER TO ARCHITECTURAL LAYOUTS FOR CLIENT OWNERSHIP BOUNDARY AND BUILDING DIMENSIONS.
 - ALL WORKS CARRIED OUT IN THE PUBLIC STREET TO BE TO KILDARE COUNTY COUNCIL SPECIFICATIONS.
 - ALL COVERS IN PUBLIC AREAS TO BE D400 COVER AND FRAME UNLESS OTHERWISE NOTED.
 - ALL MATERIALS PROPOSED FOR USE ON SITE TO BE APPROVED PRIOR TO ARRIVAL ON SITE.

- LEGEND
- EXISTING GROUND PROFILE
 - PROPOSED FINISHED SURFACE PROFILE

P03	21.10.2024	ISSUED FOR INFORMATION	ND	NS	NS
P02	11.01.2024	ISSUED FOR INFORMATION	FW	MD	NS
P01	03.11.2023	ISSUED FOR INFORMATION	FW	MD	NS
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PROJECT No.	STAGE
80196	PLANNING

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Unit E4, Nutgrove Office Park,
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W www.nodwyer.com



T +353 1 707 2088
E cluid@cluid.ie

PROJECT

CLUID HOUSING LEIXLIP

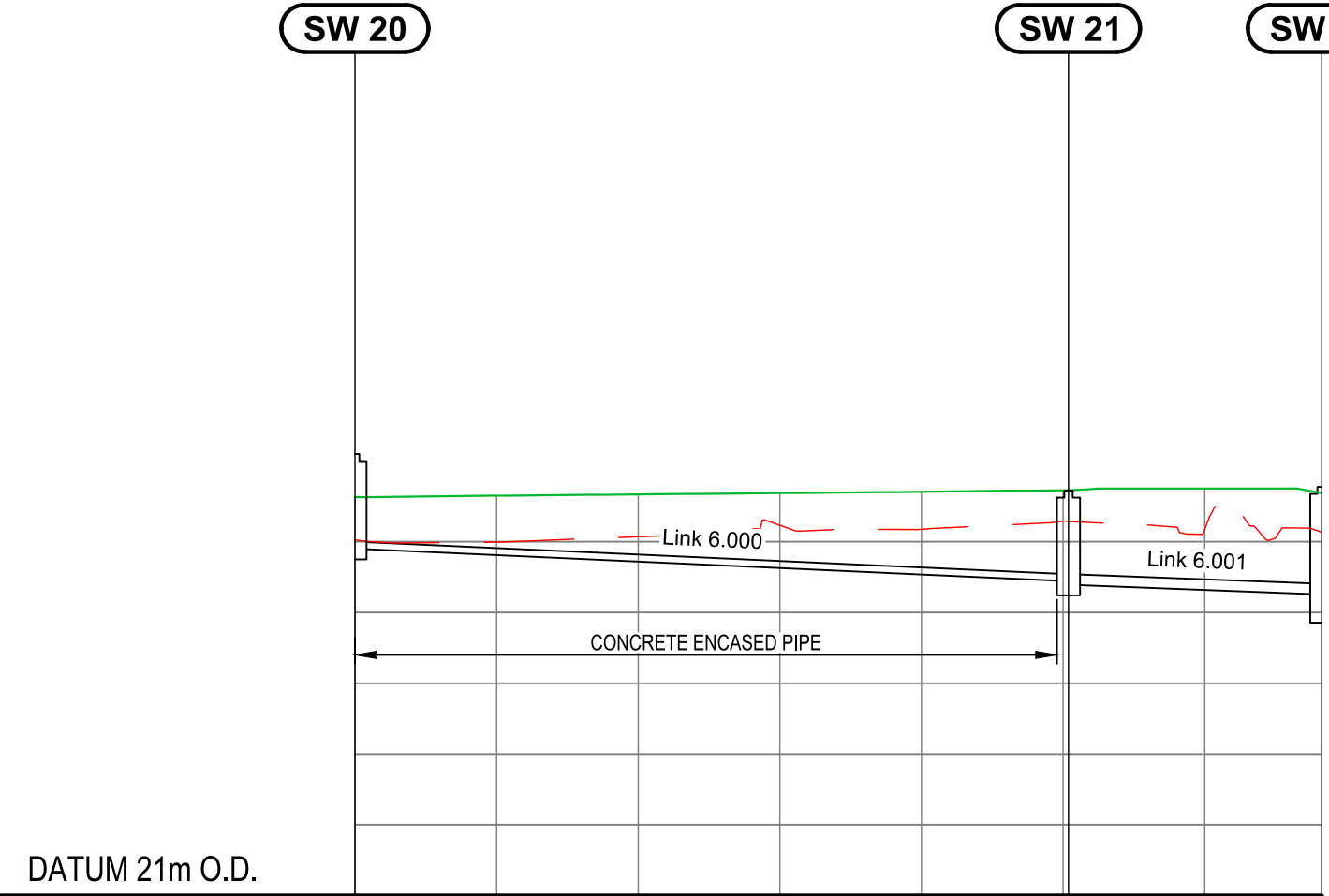
TITLE

SURFACE WATER
LONGITUDINAL SECTIONS
SHEET 1

SCALES @ A1	DRAWN N. Duma	CHECKED N. Skelton	APPROVED N. Skelton
1:500	DATE 21.10.2024	DATE 21.10.2024	DATE 21.10.2024

SUITABILITY CODE S2	SUITABILITY DESCRIPTION INFORMATION
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DRAWING No. 80169-NOD-01-XX-DR-C-08402	REVISION P03
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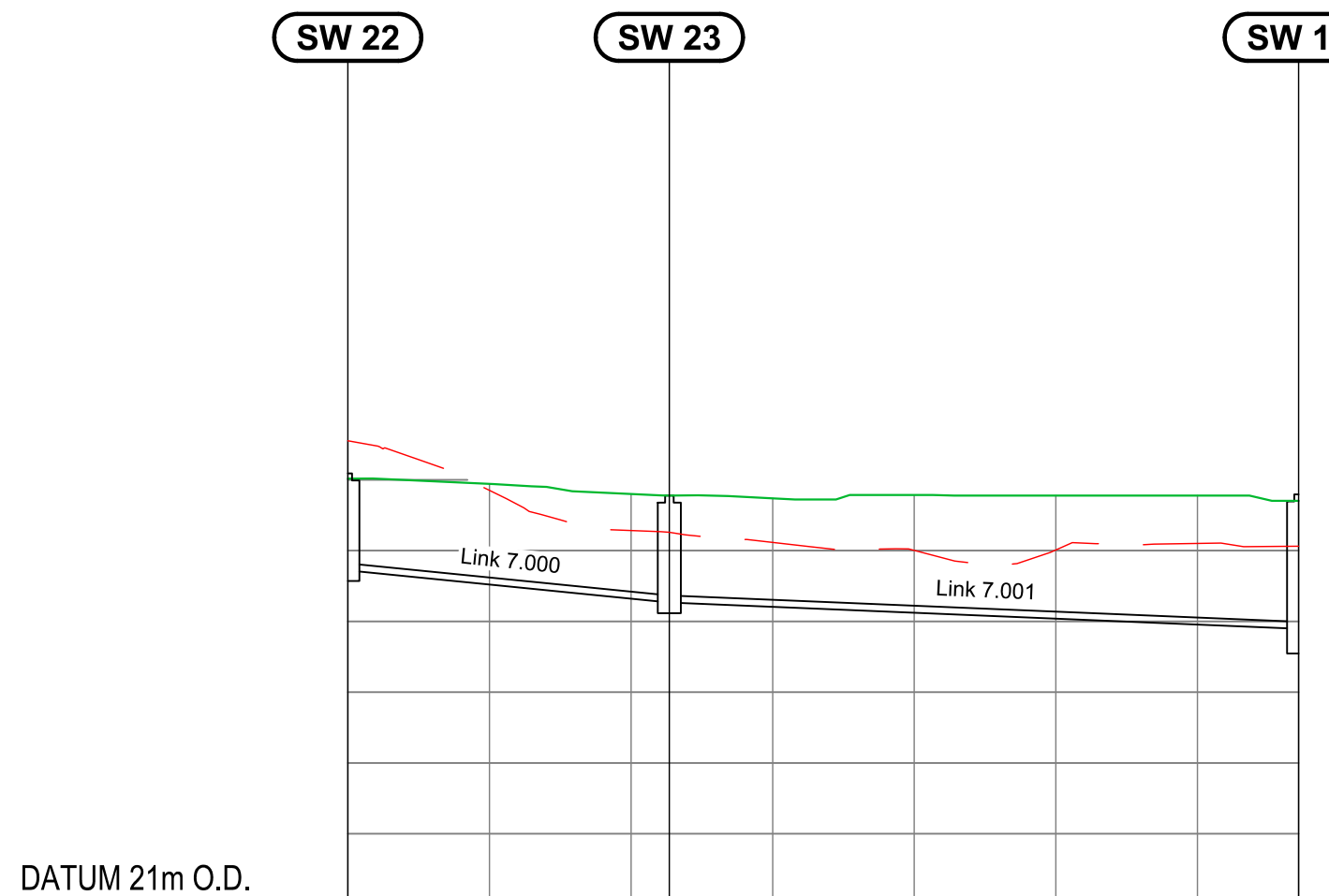


DATUM 21m O.D.							
GROUND LEVEL	26.03	25.99	26.07	26.23	26.17	26.72	26.17
INVERT LEVEL	25.90					25.44	25.25
CHAINAGE	00.00					50.38	68.27
GRADIENT			1:110				1:130
PIPE DIAMETER			100mm				150mm
PIPE MATERIAL			PVC				PVC

LONGITUDINAL SECTION SURFACE WATER LINE 5: 0m - 68m

V Scale: 1:50

H Scale: 1:250

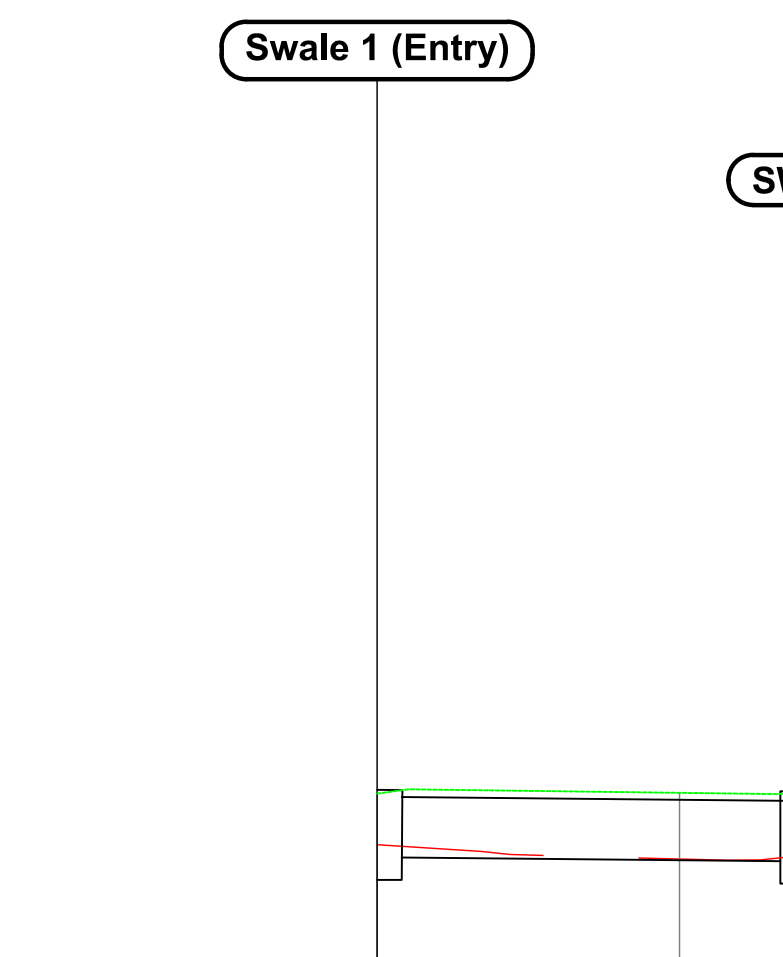


DATUM 21m O.D.							
GROUND LEVEL	27.55	26.85	26.28	26.18	26.12	26.00	26.10
INVERT LEVEL	25.72		25.27	25.27			24.90
CHAINAGE	00.00		22.71				87.14
GRADIENT		1:50			1:120		
PIPE DIAMETER		100mm			100mm		
PIPE MATERIAL		PVC			PVC		

LONGITUDINAL SECTION SURFACE WATER LINE 6: 0m - 67m

V Scale: 1:50

H Scale: 1:250



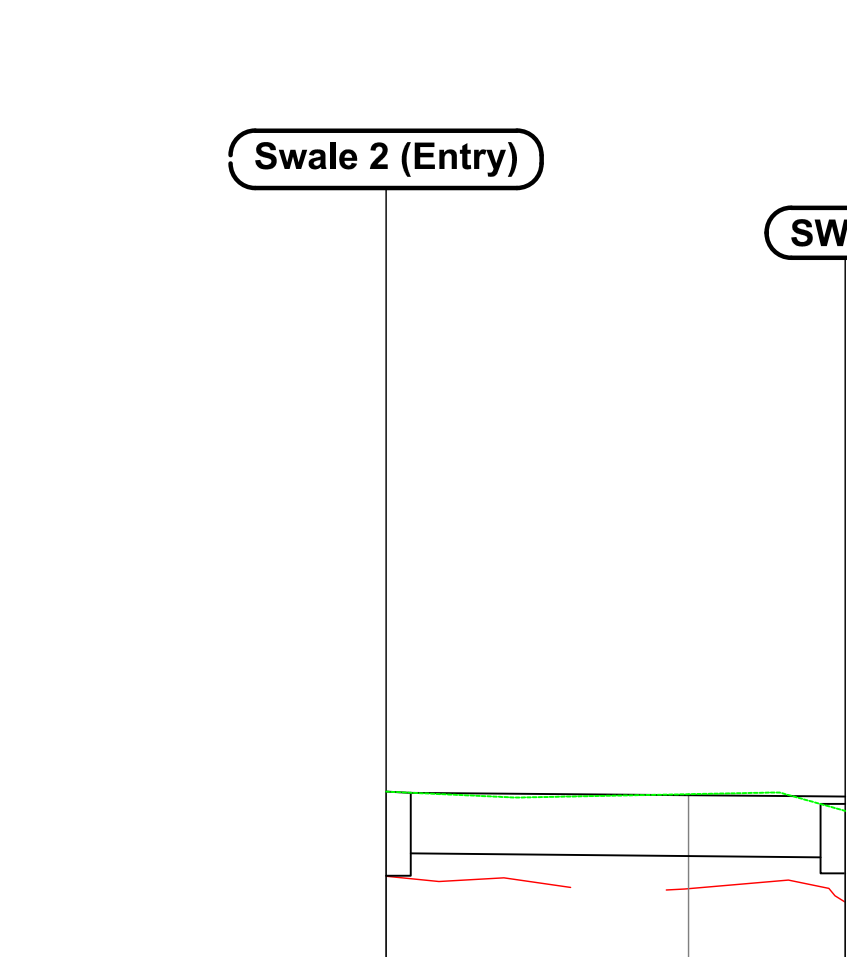
DATUM 25m O.D.			
GROUND LEVEL			
INVERT LEVEL	26.29		26.26
CHAINAGE	00.00		14.14
GRADIENT		1:505	
SECTION TYPE		\\ 1000x400mm 1:3.0	

LONGITUDINAL SECTION

Swale Line 6

V Scale: 1:50

H Scale: 1:250



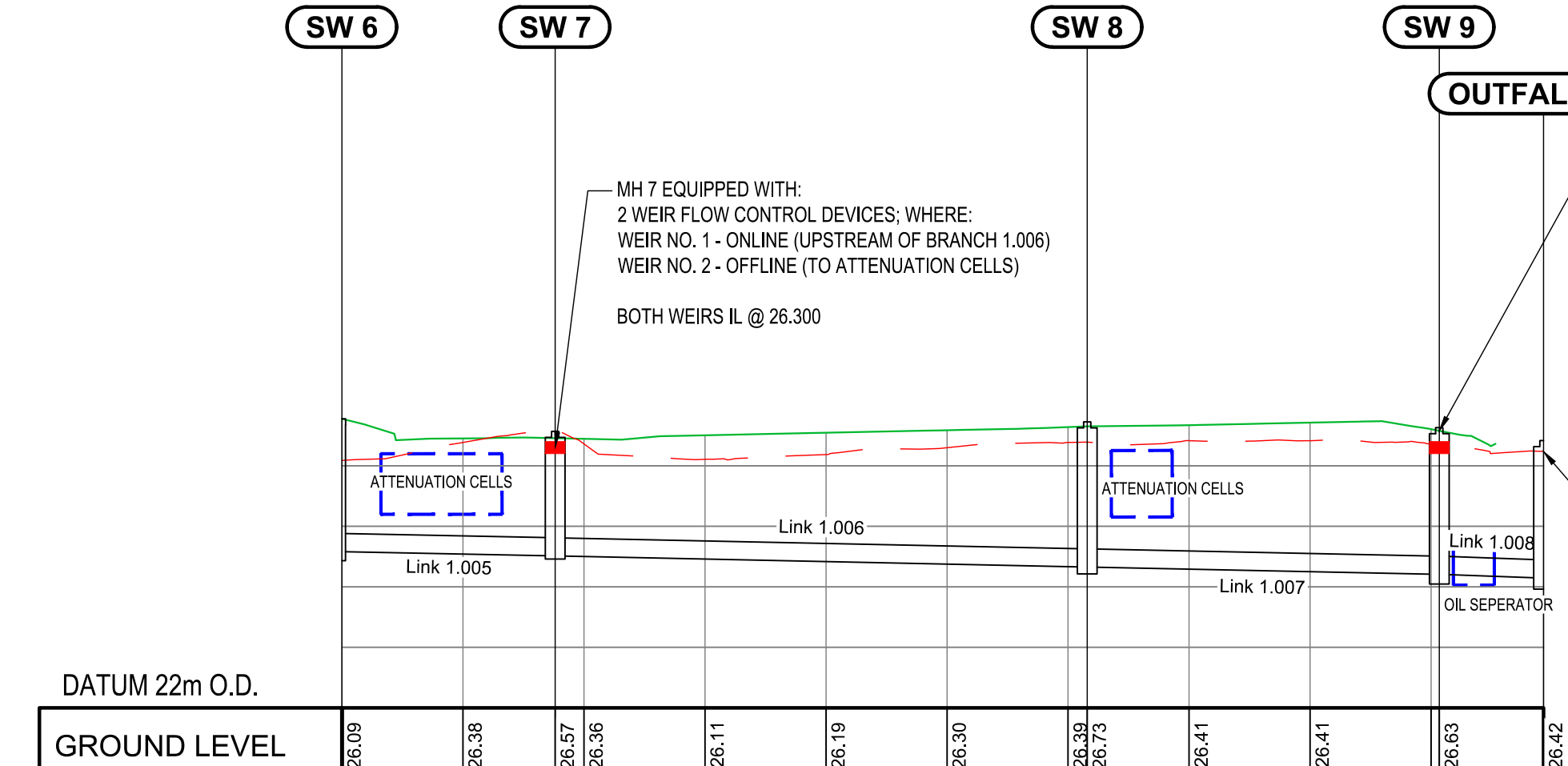
DATUM 25m O.D.			
GROUND LEVEL			
INVERT LEVEL	26.35		26.32
CHAINAGE	00.00		15.18
GRADIENT		1:506	
SECTION TYPE		\\ 1000x400mm 1:3.0	

LONGITUDINAL SECTION

Swale Line 8

V Scale: 1:50

H Scale: 1:250

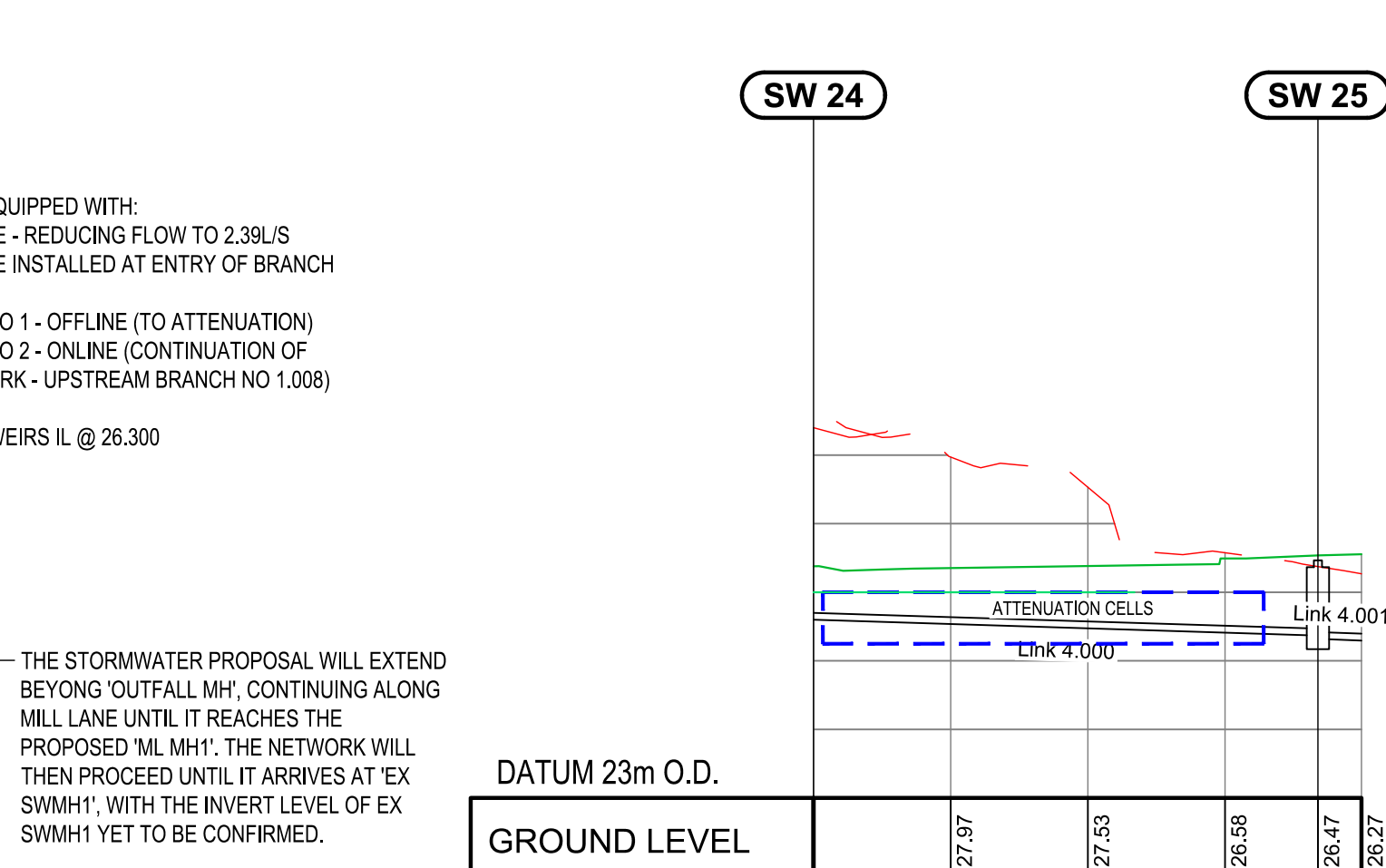


DATUM 22m O.D.							
GROUND LEVEL	26.09	26.38	26.57	26.36	26.11	26.19	26.30
INVERT LEVEL	24.58		24.51	24.51		24.33	24.21
CHAINAGE	00.00		17.62		61.58		90.67
GRADIENT		1:252			1:240		1:139
PIPE DIAMETER		300mm			300mm		300mm
PIPE MATERIAL		PVC			PVC		PVC

LONGITUDINAL SECTION SURFACE WATER LINE 7: 0m - 99m

V Scale: 1:50

H Scale: 1:250



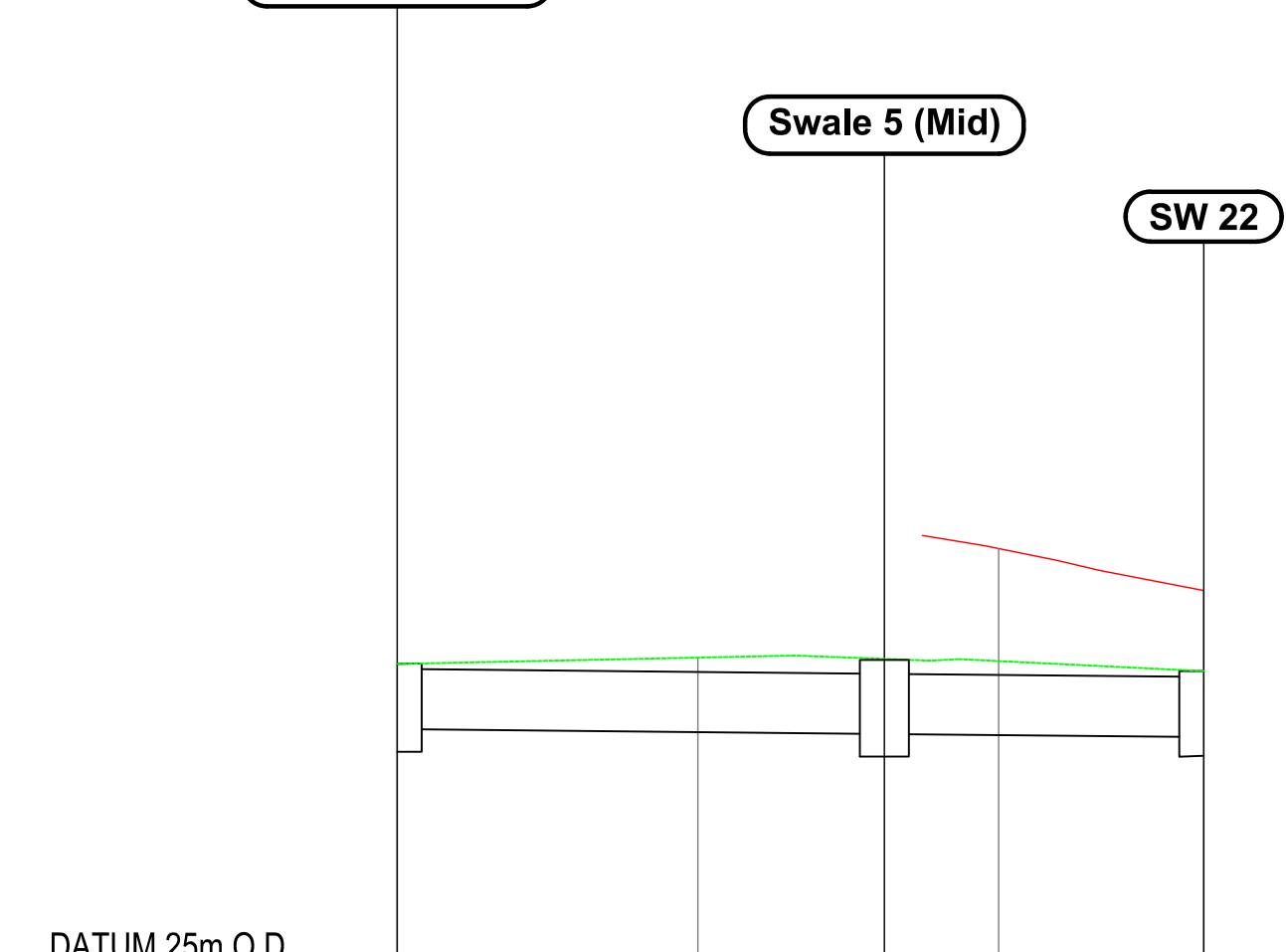
DATUM 23m O.D.							
GROUND LEVEL		27.97	27.53	26.58	26.47	26.27	
INVERT LEVEL	25.60			25.37	25.26		
CHAINAGE	00.00			36.77			
GRADIENT			1:160		1:146		
PIPE DIAMETER			100mm		100mm		
PIPE MATERIAL			PVC		PVC		

LONGITUDINAL SECTION SURFACE

WATER LINE 7: 0m - 99m

V Scale: 1:50

H Scale: 1:250



DATUM 25m O.D.							
GROUND LEVEL							
INVERT LEVEL	26.63		26.60	26.60	26.58		
CHAINAGE	00.00		16.20				
GRADIENT		1:506			1:531		
SECTION TYPE		\\ 1000x400mm 1:3.0			\\ 1000x400mm 1:3.0		

LONGITUDINAL SECTION

Swale Line 7

V Scale: 1:50

H Scale: 1:250

NOTES

1. ALL MEASUREMENTS AND LEVELS ARE EXPRESSED IN METERS, UNLESS OTHERWISE SPECIFIED.

2. ALL LEVELS ARE REFERENCED TO THE MALIN HEAD DATUM.

3. THE COORDINATE SYSTEM IS BASED ON THE IRISH TRANSVERSE MERCATOR

4. REFER TO ARCHITECTURAL LAYOUTS FOR CLIENT OWNERSHIP BOUNDARY AND BUILDING DIMENSIONS.

5. ALL WORKS CARRIED OUT IN THE PUBLIC STREET TO BE TO KILDARE COUNTY COUNCIL SPECIFICATIONS.

6. ALL COVERS IN PUBLIC AREAS TO BE D400 COVER AND FRAME UNLESS OTHERWISE NOTED.

7. ALL MATERIALS PROPOSED FOR USE ON SITE TO BE APPROVED PRIOR TO ARRIVAL ON SITE.

LEGEND

EXISTING GROUND PROFILE

PROPOSED FINISHED SURFACE PROFILE

PROJECT No.

80196

STAGE

PLANNING

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NICHOLAS O'DWYER

an RSK company

Unit E4, Nutgrove Office Park,
Nutgrove Avenue, Dublin 14
T +353 1 296 9000
F +353 1 296 9001
E dublin@nodwyer.com
W www.nodwyer.com

CLIENT

cluid housing

CLUID HOUSING LEIXLIP

TITLE

SURFACE WATER
LONGITUDINAL SECTIONS
SHEET 2

SCALES @ A1

1:500

DRAWN

N. Duma

CHECKED

N. Skelton

APPROVED

N. Skelton

SUITABILITY CODE

S2

SUITABILITY DESCRIPTION

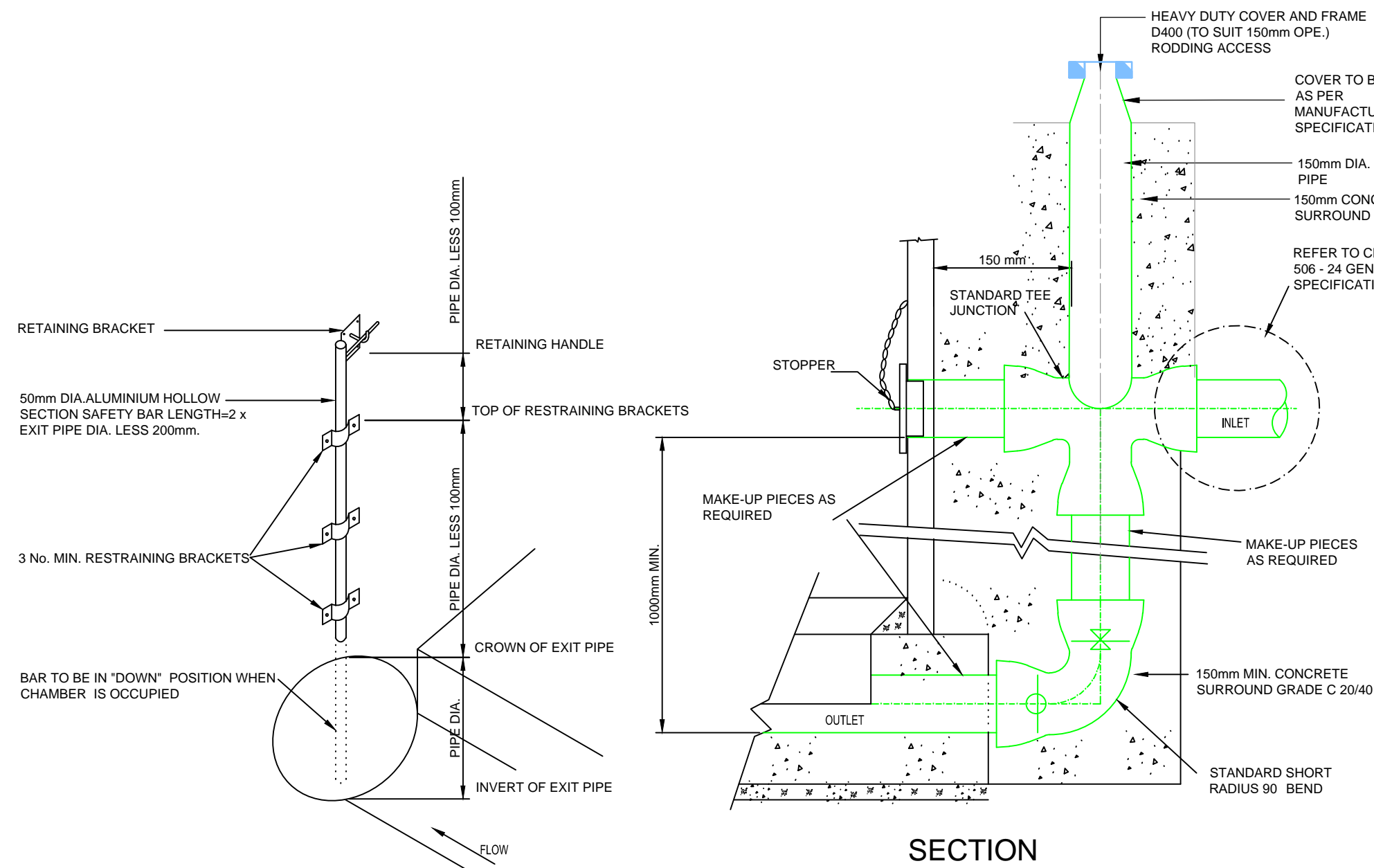
INFORMATION

DRAWING No.

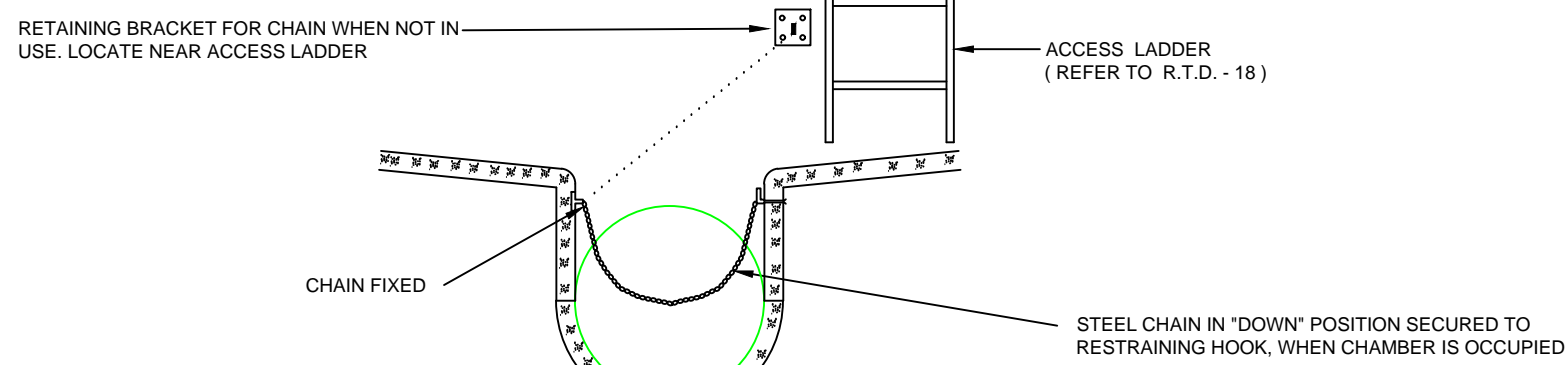
80169-NOD-01-XX-DR-C-08403

REVISION

P03



DETAIL OF SAFETY BAR DETAIL OF BACK-DROP TO MANHOLE



SECTION

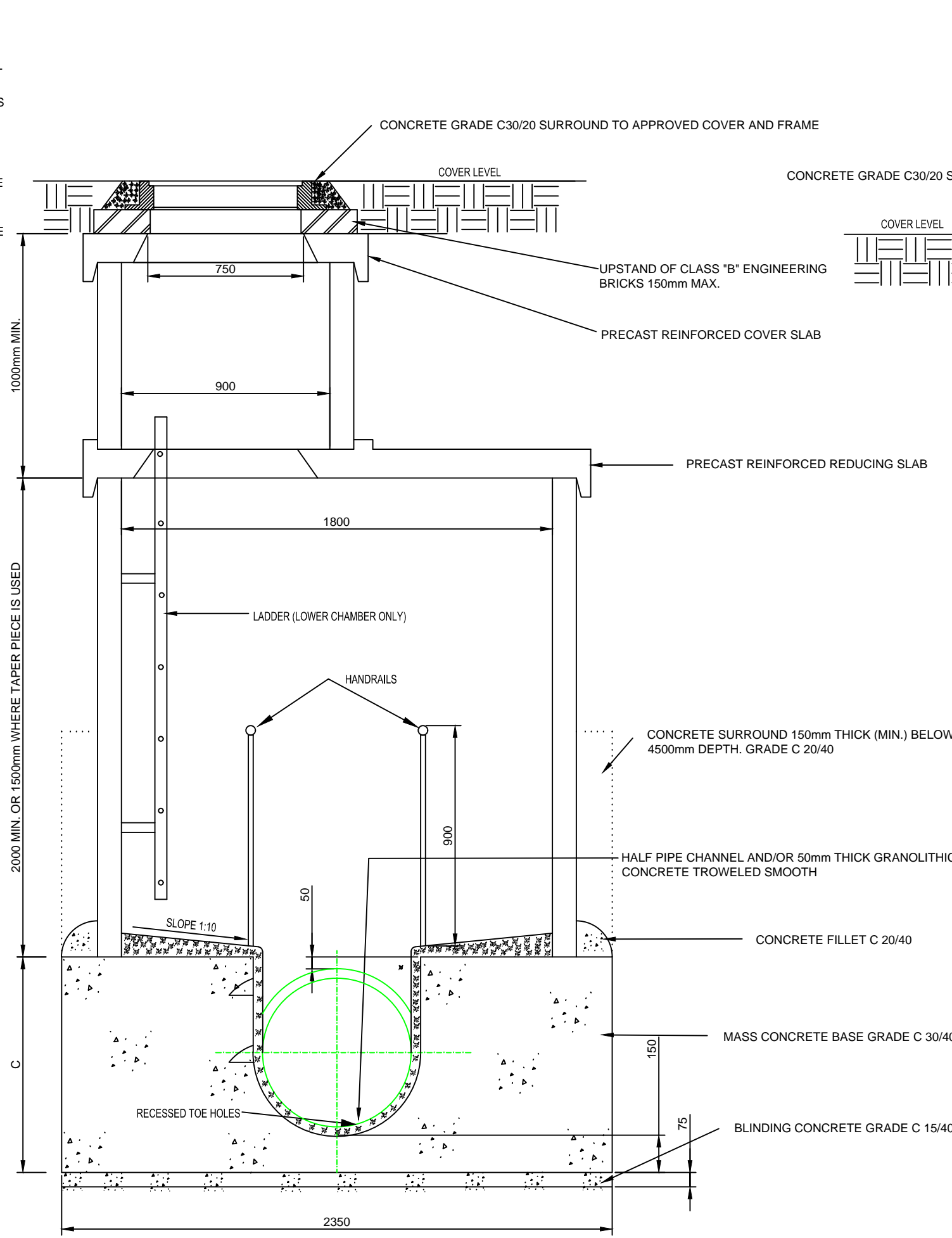
DETAIL OF SAFETY CHAIN

TABLE OF DIMENSIONS

MANHOLE TYPE NUMBER	EXIT PIPE DIAMETER	MAXIMUM DEPTH TO INVERT mm	MANHOLE CHANNEL CONFIGURATION	MANHOLE CHAMBER DIAMETER - A mm	MANHOLE BASE DIA. - B mm	HEIGHT OF MH. BASE - C mm	NOTES
TYPE 1	A UP TO 350 DIA.	3650	ALL ARRANGEMENTS	1200 DIA.	1700 DIA.	EXIT PIPE DIA. + 275	SEE DETAIL NOTES 1-4
	B 375-800 DIA.	4100	1) STRAIGHT THROUGH 2) CURVED CHANNEL 45°	1500 DIA.	2000 DIA.	EXIT PIPE DIA. + 325	DITTO : 1-7
	C 375-800 DIA.	3800	3) CURVED CHANNEL 45° 4) JUNCTION	1500 DIA.	2000 DIA.	EXIT PIPE DIA. + 300	DITTO : 1-7
	D 675-1100 DIA.	4300	1) STRAIGHT THROUGH 2) CURVED CHANNEL 45°	1800 DIA.	2350 DIA.	EXIT PIPE DIA. + 350	DITTO : 1-7
	E 675-900 DIA.	4200	3) CURVED CHANNEL 45° 4) JUNCTION	1800 DIA.	2350 DIA.	EXIT PIPE DIA. + 350	DITTO : 1-7
TYPE 2	A UP TO 350 DIA.	3650 - 6350	ALL ARRANGEMENTS	1800 DIA.	2350 DIA.	EXIT PIPE DIA. + 275	SEE DETAIL NOTES 1-4 & 8
	B 375-800 DIA.	4100 - 6500	1) STRAIGHT THROUGH 2) CURVED CHANNEL 45°	1800 DIA.	2350 DIA.	EXIT PIPE DIA. + 325	DITTO : 1-8
	C 375-800 DIA.	3900 - 6500	3) CURVED CHANNEL 45° 4) JUNCTION	1800 DIA.	2350 DIA.	EXIT PIPE DIA. + 300	DITTO : 1-8
	D 675-1100 DIA.	4300 - 6850	1) STRAIGHT THROUGH 2) CURVED CHANNEL 45°	1800 DIA.	2350 DIA.	EXIT PIPE DIA. + 350	DITTO : 1-8
	E 675-900 DIA.	4200 - 6750	3) CURVED CHANNEL 45° 4) JUNCTION	1800 DIA.	2350 DIA.	EXIT PIPE DIA. + 350	DITTO : 1-8

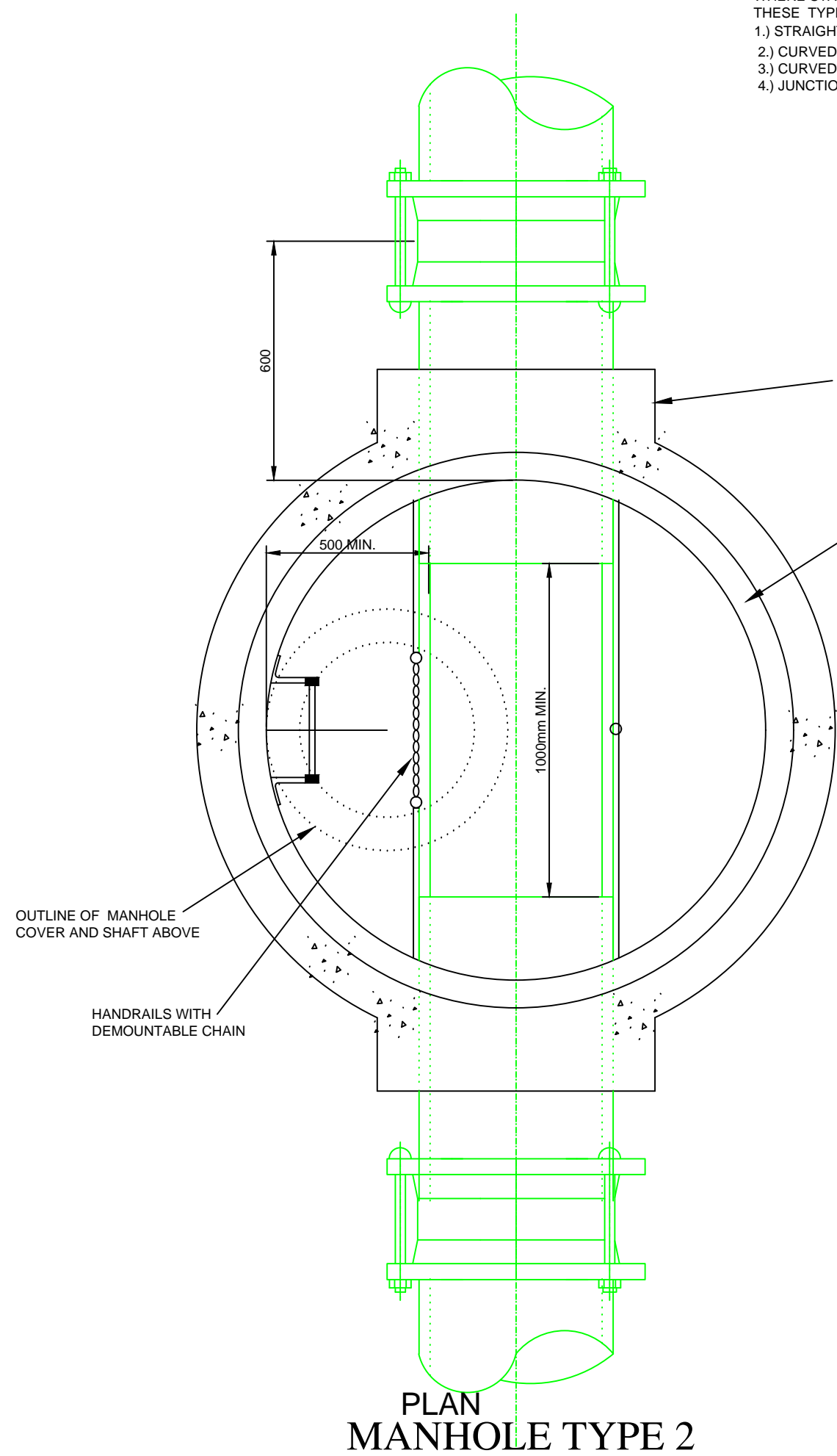
DETAIL NOTES

- FOR BEDDING AND SEALING OF CHAMBER RINGS - THE TOP RING (TO P.C. COVER SLAB) AND BOTTOM RING TO BE BEDDED WITH CEMENT MORTAR. FOR INTERMEDIATE RINGS, JOINTS TO BE SEALED WITH EITHER APPROVED PREFORMED JOINTING STRIP OR BY LIBERALLY COATING THE FACES OF THE JOINTS WITH APPROVED BITUMINOUS MATERIAL PRIOR TO BEING POSITIONED. SURPLUS MATERIAL TO BE NEATLY STRUCK OFF.
- ENTRY AND EXIT PIPES TO BE BUILT IN MONOLITHICALLY WITH THE MANHOLE AND THE MANHOLE MADE WATER TIGHT.
- BRANCH BENDS TO BE CURVED IN THE DIRECTION OF FLOW.
- THE DESIGN OF ALL DEEP MANHOLES (>3M DEEP) IS SUBJECT TO APPROVAL.
- PROVIDE RECESSED TOE HOLES IN CHANNELS OVER 450mm IN DEPTH. (SEE TYPE 2 MANHOLE)
- FOR 600mm DIA. EXIT PIPES AND OVER, A SAFETY BAR OR CHAIN IS TO BE PROVIDED. (BOTH AS DETAILED)
- FOR 600mm DIA. EXIT PIPES AND OVER, PROVIDE 25mm GALVANISED SOLID BAR HANDRAILS WITH CHAIN - ONE END DEMOUNTABLE - AT EDGES OF BENCHING. (SEE TYPE 2 MANHOLE)

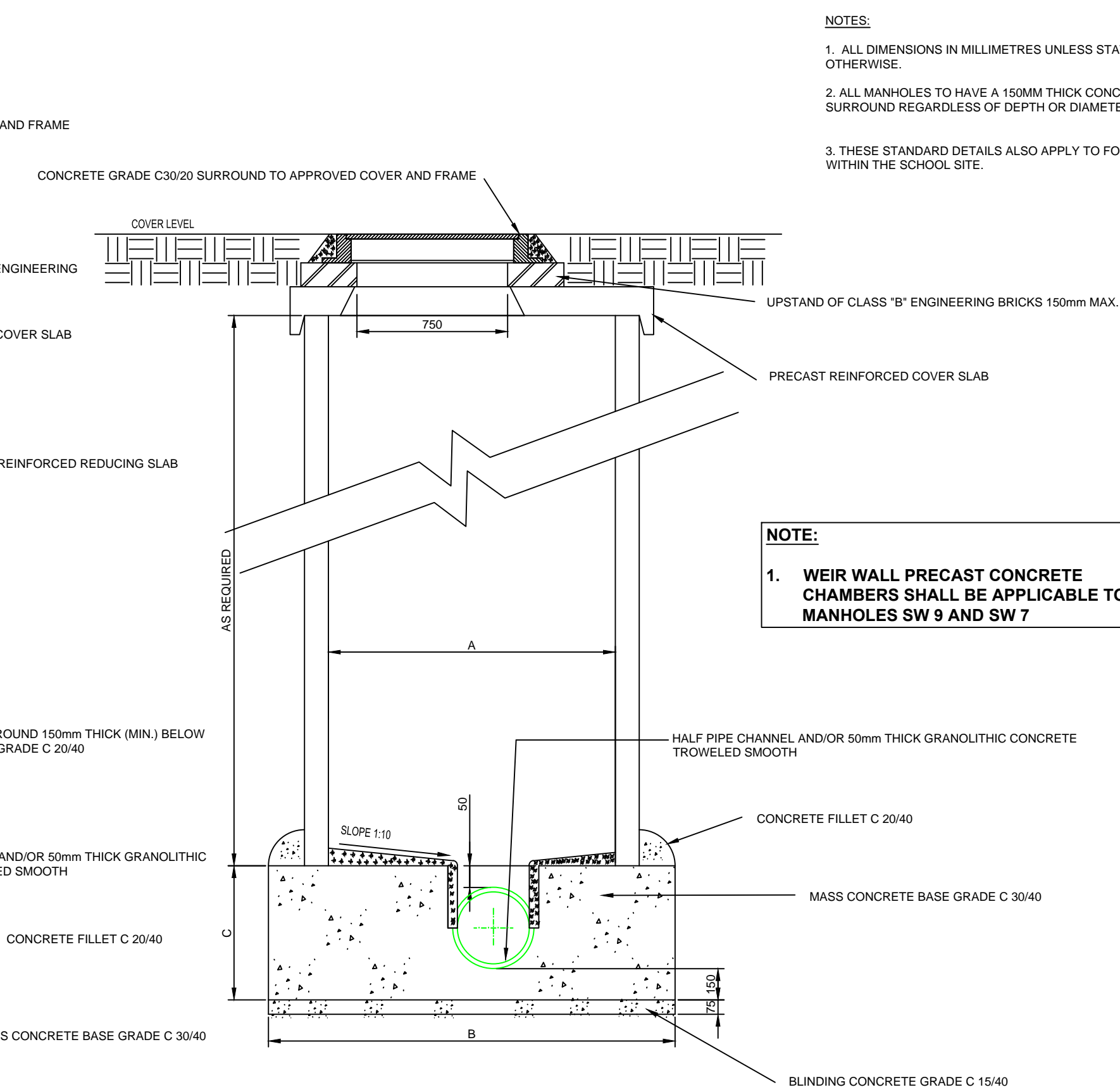


SECTION

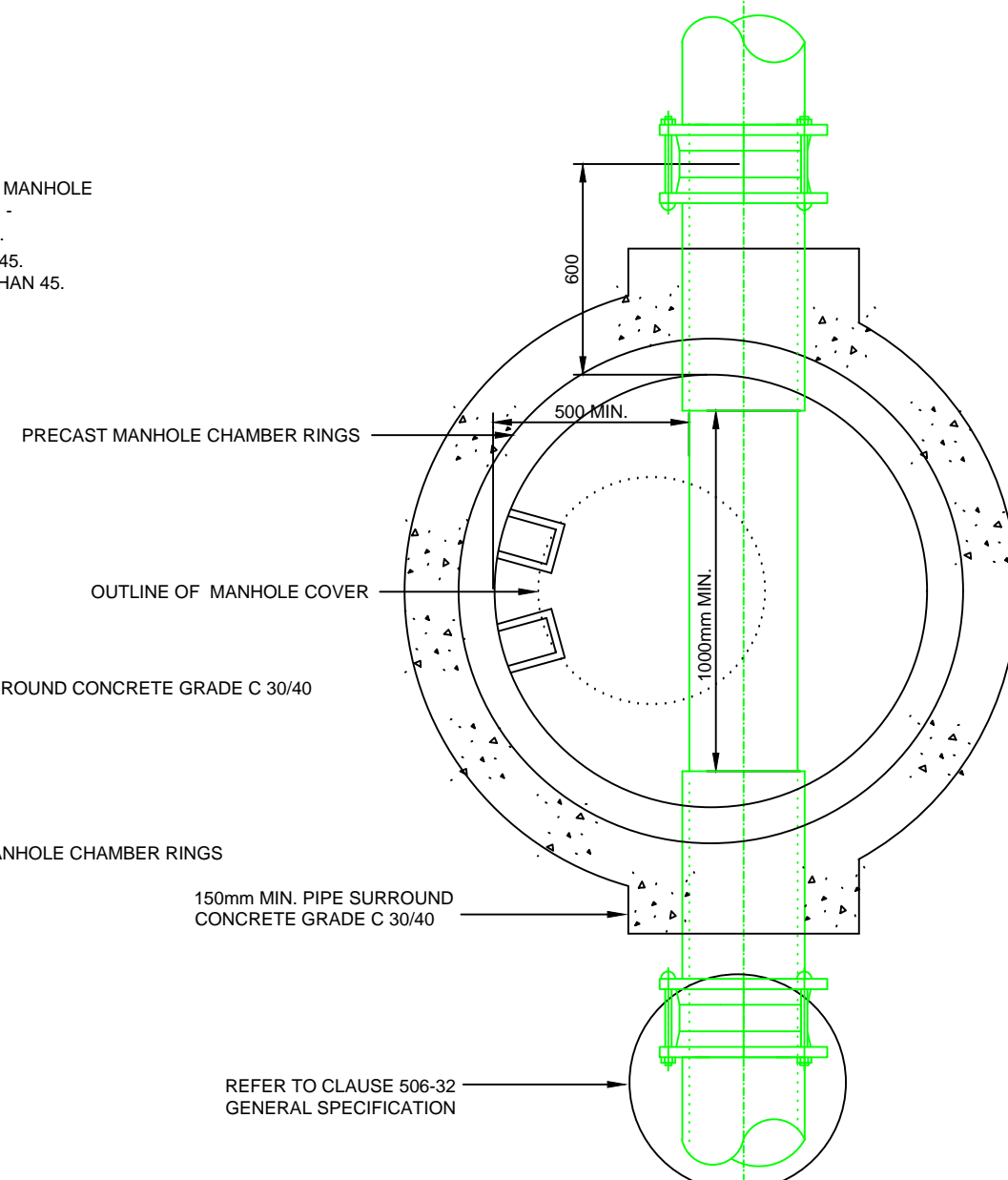
WHERE STATED IN TABLE BELOW, MANHOLE THESE TYPES ARE SUITABLE FOR -
1) STRAIGHT THROUGH CHANNEL.
2) CURVED CHANNEL LESS THAN 45.
3) CURVED CHANNEL GREATER THAN 45.
4) JUNCTION



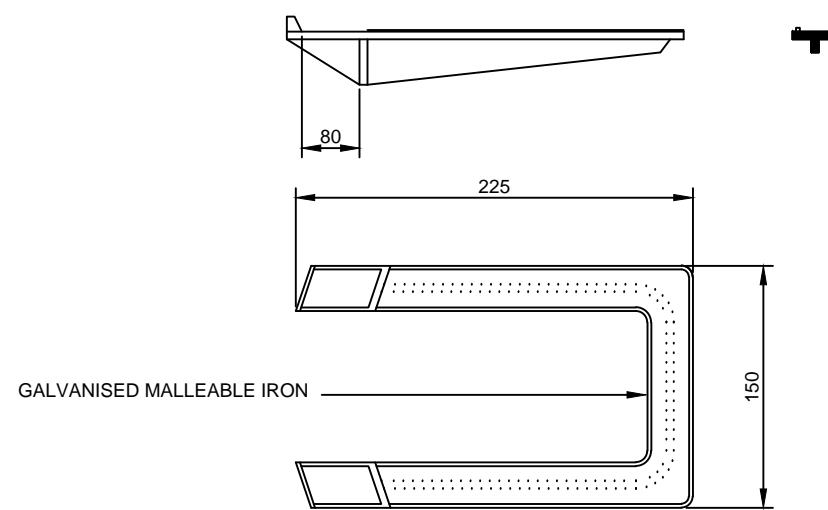
PLAN MANHOLE TYPE 2



SECTION



PLAN MANHOLE TYPE 1



DETAIL OF STEP IRON

- NOTES:
- ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.
 - ALL MANHOLES TO HAVE A 150MM THICK CONCRETE SURROUND REGARDLESS OF DEPTH OR DIAMETER.
 - THESE STANDARD DETAILS ALSO APPLY TO FOUL DRAINAGE WITHIN THE SCHOOL SITE.

NOTE:
1. WEIR WALL PRECAST CONCRETE CHAMBERS SHALL BE APPLICABLE TO MANHOLES SW 9 AND SW 7

NOTES

P02	11.01.2023	ISSUED FOR INFORMATION	FW	NS	NS
P01	03.11.2023	ISSUED FOR INFORMATION	FW	NS	NS
REV	DATE	DESCRIPTION	D	C	A

PROJECT No. 80196 STAGE PLANNING

NICHOLAS O'DWYER
an RSK company

Unit E4, Nutgrove Office Park,
Nutgrove Avenue, Dublin 14
T +353 1 296 9000
F +353 1 296 9001
E dublin@nodwyer.com
W www.nodwyer.com

CLIENT

cluid housing
Dublin 8, DOCK 6X

T +353 1 767 2088
E cluid@cluid.ie

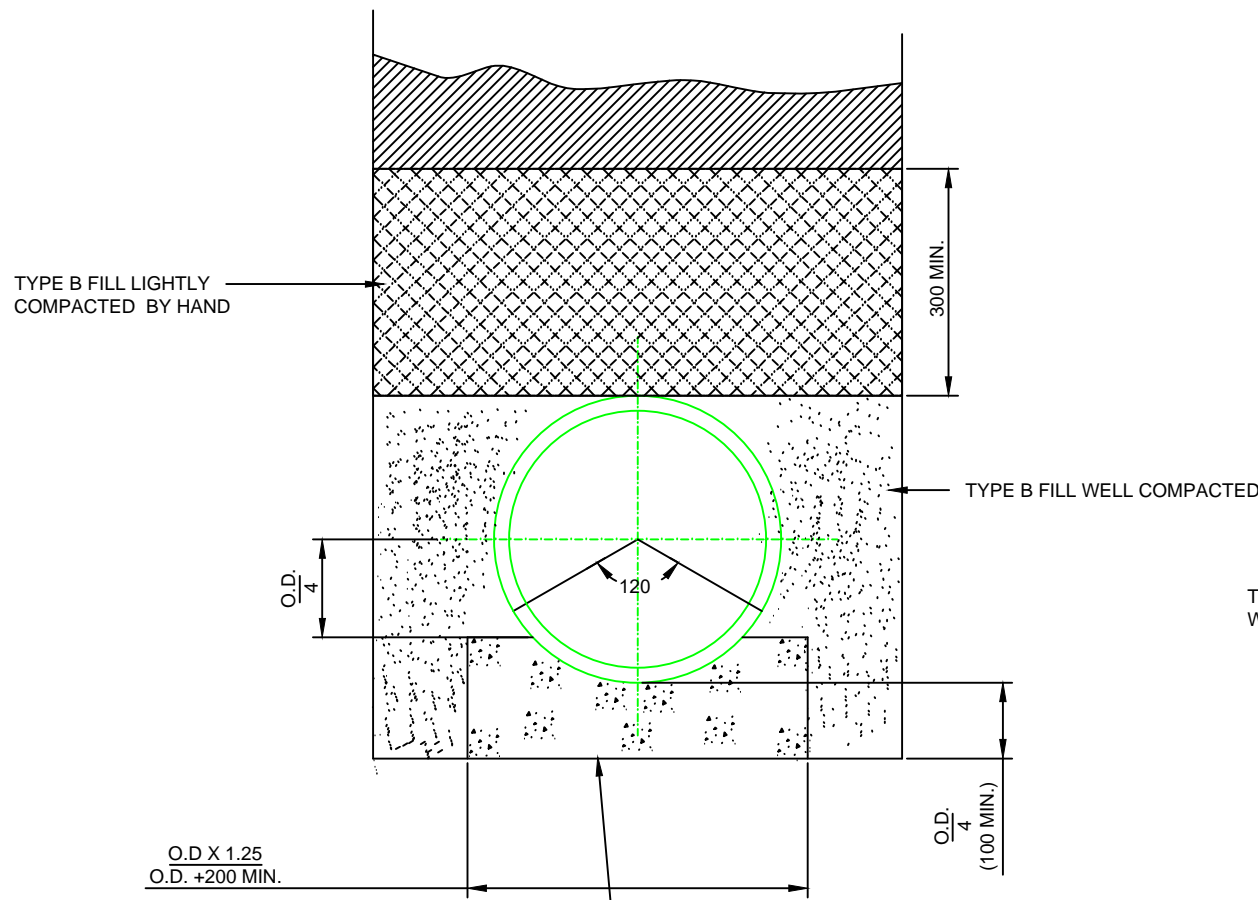
PROJECT

CLUID HOUSING LEIXLIP

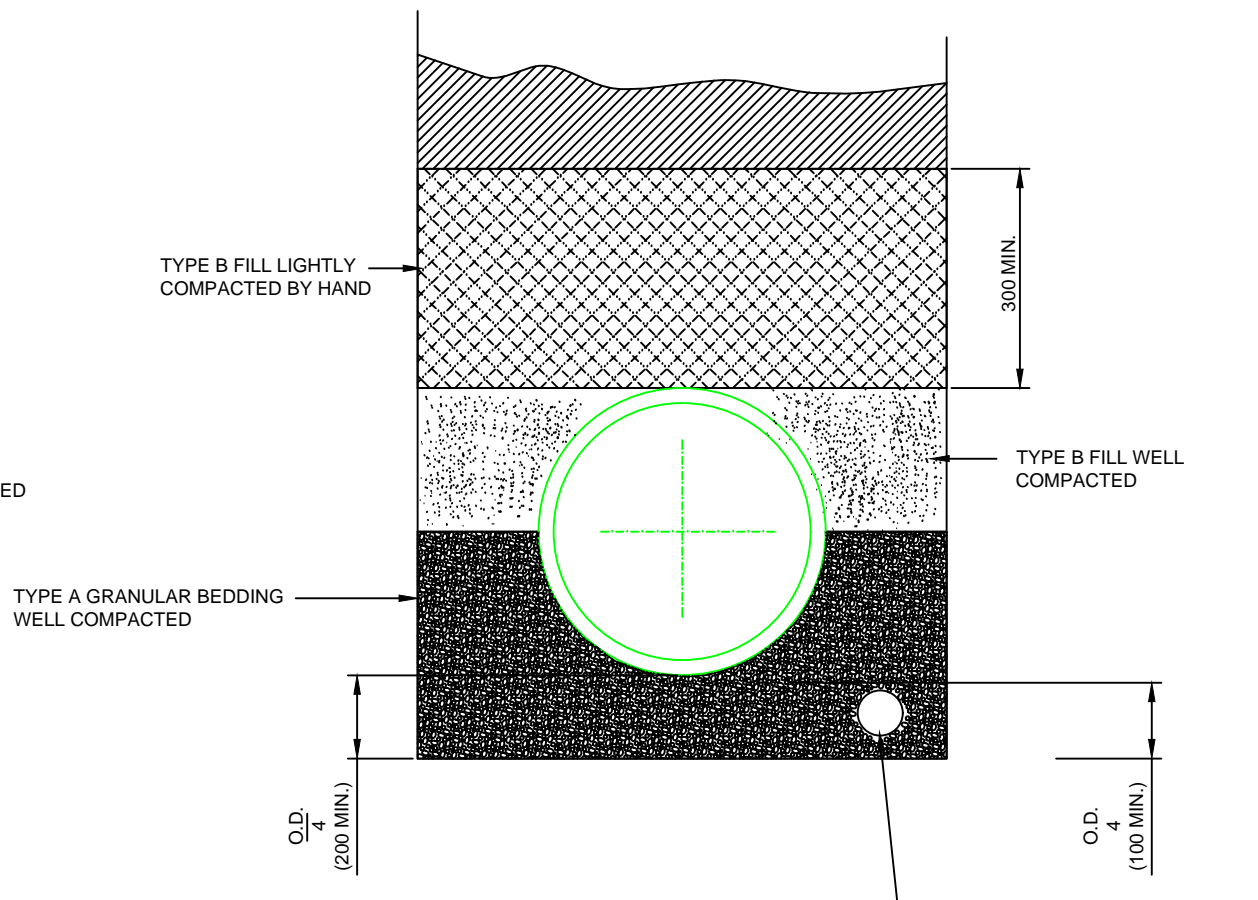
TITLE

SURFACE WATER
STANDARD DETAILS
SHEET 1

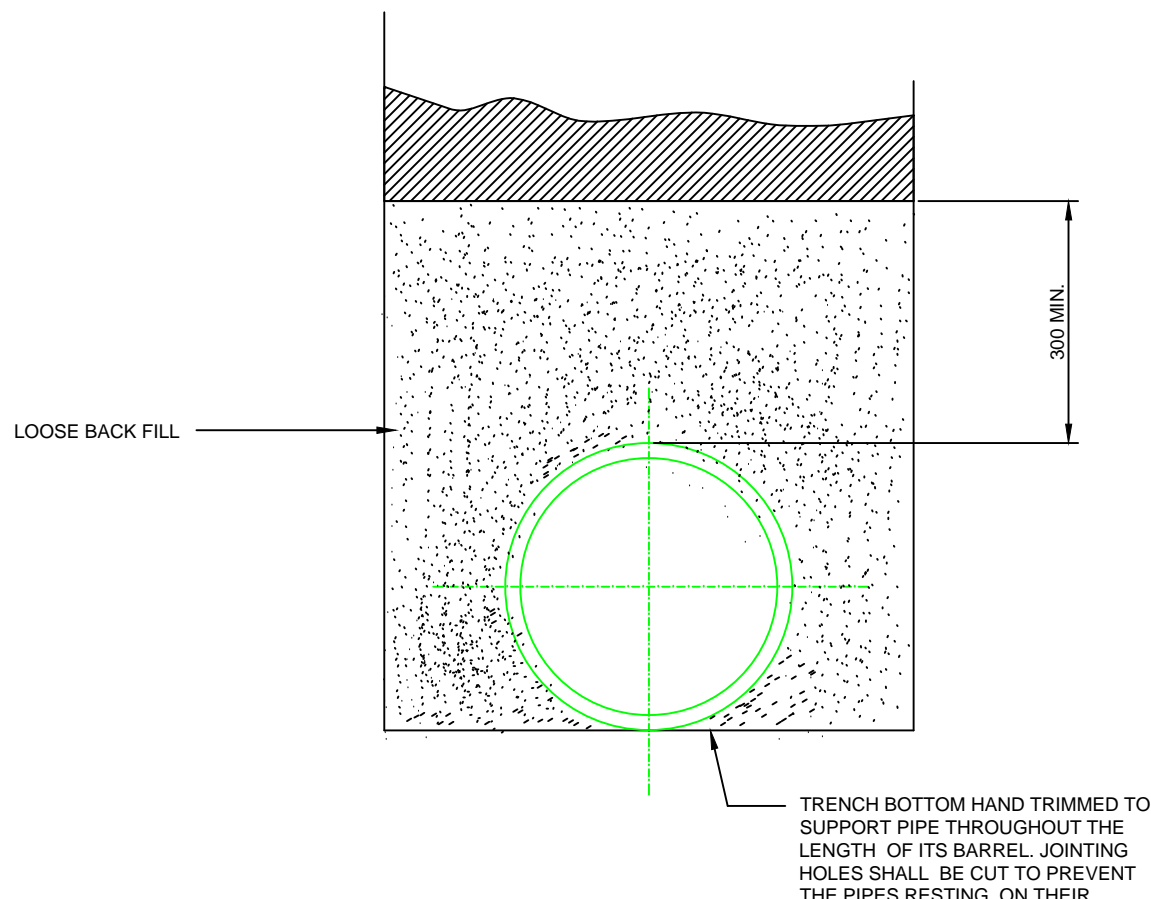
SCALES @ A1	DRAWN F. Wallil	CHECKED N. Skelton	APPROVED N. Skelton
1:500	DATE 03.11.2023	DATE 03.11.2023	DATE 03.11.2023
SUITABILITY CODE S2	SUITABILITY DESCRIPTION INFORMATION		
DRAWING No. 80169-NOD-01-XX-DR-C-08410			REVISION P01



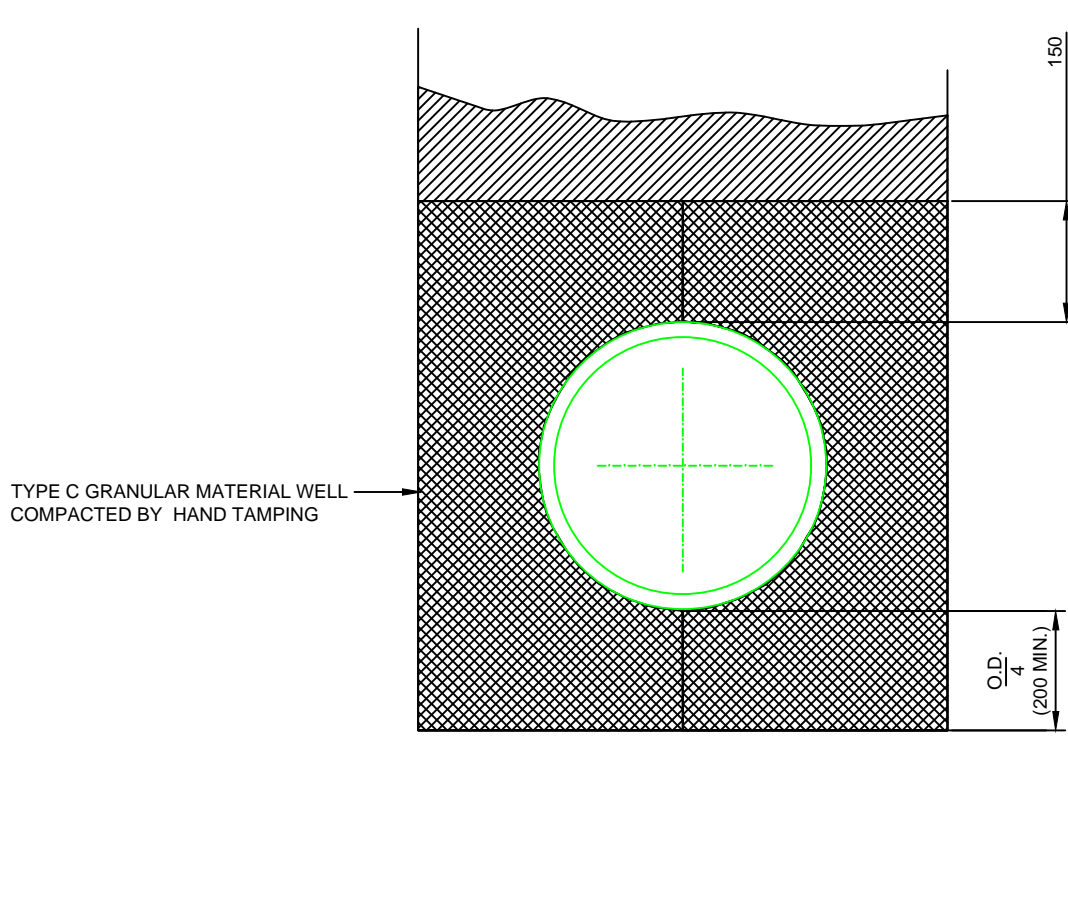
CLASS A BEDDING



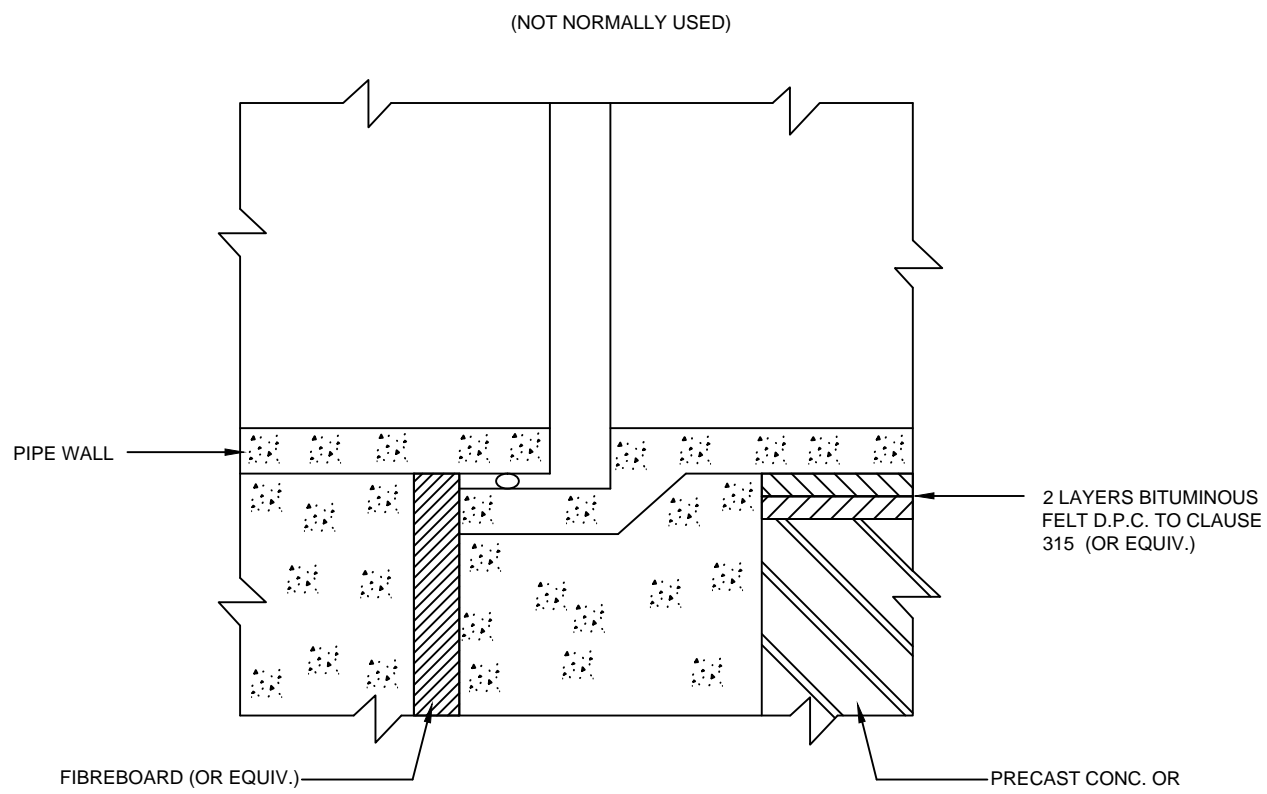
CLASS B BEDDING



CLASS D BEDDING



CLASS E BEDDING



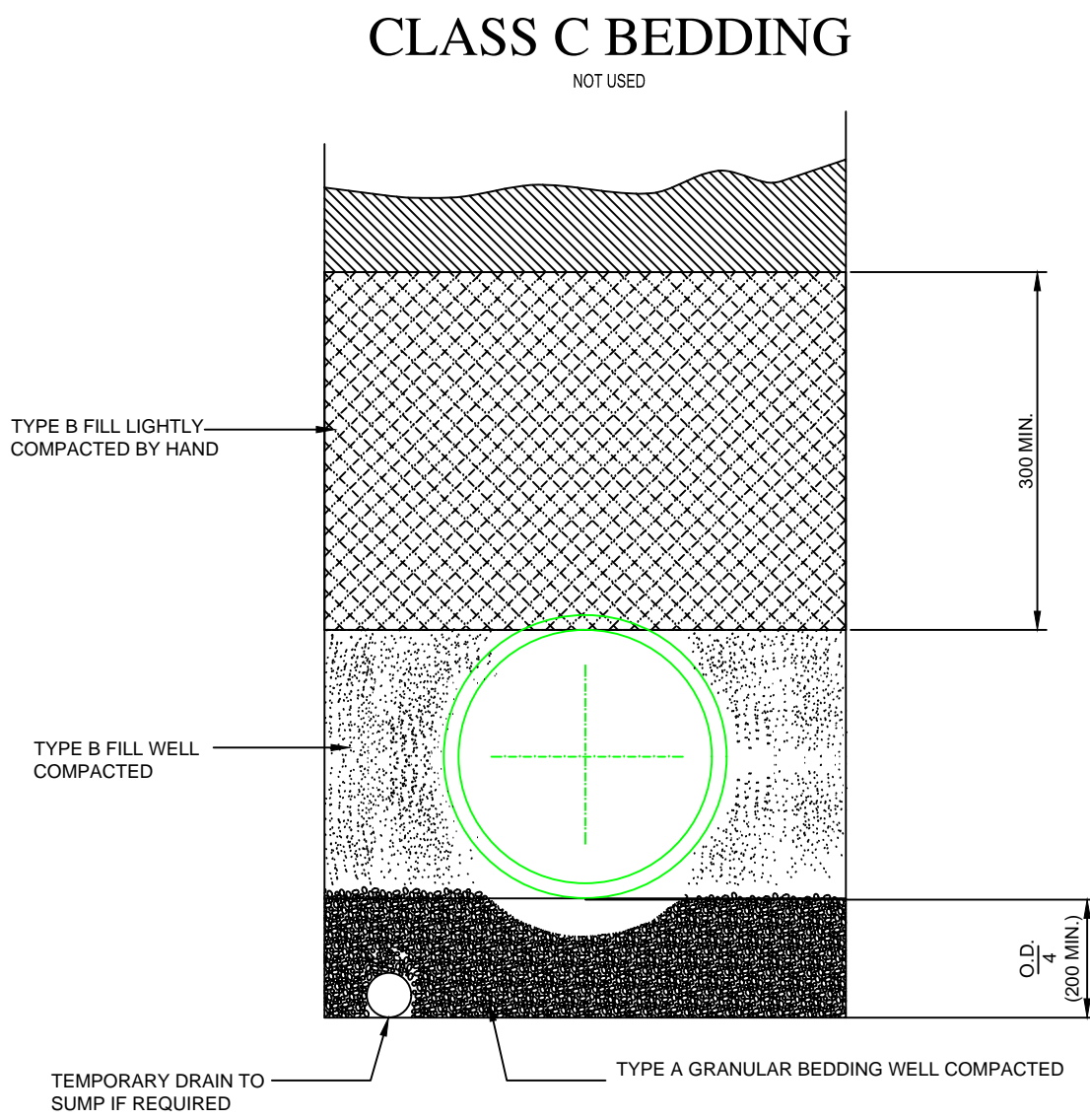
JOINT IN CONCRETE SUPPORT

NOTES:

1. THE MINIMUM TRENCH WIDTH IS ALSO THE PAYMENT WIDTH.
2. THE MAXIMUM TRENCH WIDTH IS MINIMUM TRENCH WIDTH PLUS 200mm.
3. ANY INTERNAL DIAMETER BETWEEN THOSE GIVEN IN THE TABLE, SHALL BE INCLUDED IN THE NEXT HIGHEST DIAMETER FOR MINIMUM TRENCH, PAYMENT AND MAXIMUM TRENCH WIDTHS.
- * 4. WHERE TRENCH DEPTH IS GREATER THAN 1500mm THE WIDTH IS TO BE 1100mm.

NOMINAL INTERNAL DIAMETER (mm)	MINIMUM TRENCH WIDTH (mm)
100	430*
150	490*
200	550*
250	620*
300	680*
350	730*
400	780*
450	830*
500	880*
600	980*
700	1080*
750	1140
800	1180
850	1220
900	1260
1000	1360
1100	1460
1200	1560
ABOVE 1200	OUTSIDE DIAMETER OF PIPE PLUS 800

MINIMUM TRENCH WIDTHS



CLASS F BEDDING

1. ALL DIMENSIONS IN MILLIMETRES UNLESS STATED OTHERWISE.
2. BEDDING TO PIPES SHALL BE CARRIED OUT IN ACCORDANCE WITH CLAUSE 506.
3. THE APPLICABLE BEDDING SHALL BE AS SPECIFIED IN THE CONTRACT.
4. TYPE A AND TYPE C BEDDING MATERIALS IN ACCORDANCE WITH CLAUSE 347.12.

TEST SIEVE (mm)	PERCENTAGE BY MASS PASSING			
	TYPE A40	TYPE A20	TYPE A14	TYPE A10 or TYPE C
63	100	-	-	-
37.5	85-100	100	-	-
20	0-25	85-100	100	-
14	-	-	85-100	100
10	0-5	0-25	0-50	85-100
5	-	0-5	0-10	0-25
2.36	-	-	-	0-5

5. TYPE A MATERIAL SHALL BE USED AS FOLLOWS:

TYPE	NOMINAL BORE OF PIPE(mm)
A40	EXCEEDING 1350
A20	600 - 1350
A14	300 - 525
A10	LESS THAN 300

6. TYPE B BEDDING MATERIAL IN ACCORDANCE WITH CLAUSE 347.12.

SELECTED FILL TYPE B COMPRISING UNIFORM READILY COMPACTABLE MATERIAL FREE FROM TREE ROOTS, VEGETABLE MATTER, BUILDING RUBBISH AND FROZEN SOIL, AND EXCLUDING CLAY LUMPS RETAINED ON 75mm SIEVE AND STONES RETAINED ON 25mm SIEVE.

7. FOR PIPE DIAMETERS GREATER THAN 800mm AND CLASS B, E AND F BEDDINGS, THE DEPTH OF GRANULAR BED BELOW THE BARREL MAY BE REDUCED WHERE STATED IN THE CONTRACT.

8. REFERENCE TO A CLAUSE ON THIS DRAWING IS TO THE GENERAL SPECIFICATION.


9. TYPE C BEDDING MATERIALS IN ACCORDANCE WITH CLAUSE 347.13

NOTES

P01	03.11.2023	ISSUED FOR INFORMATION	FW	NS	NS
REV	DATE	DESCRIPTION	D	C	A

PROJECT No.	STAGE
80196	PLANNING

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Unit E4: Nutgrove Office Park,
Nutgrove Avenue, Dublin 14
T +353 1 296 9000
F +353 1 296 9001
E dublin@nodwyer.com
W www.nodwyer.com

CLIENT



T +353 1 707 2088
E cluid@cluid.ie

CLUID HOUSING LEIXLIP

SURFACE WATER
STANDARD DETAILS
SHEET 2

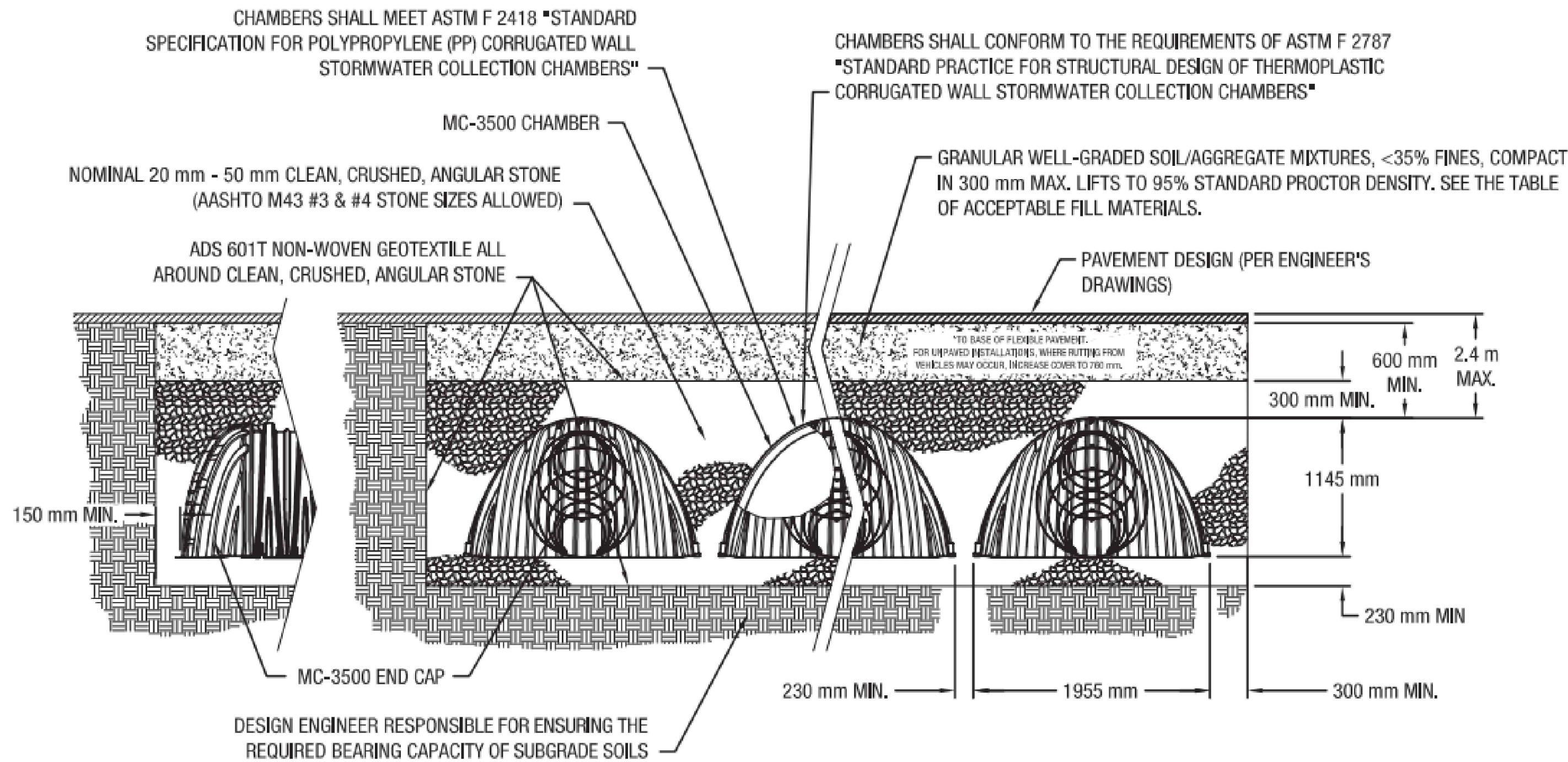
SCALES @ A1	DRAWN F. Wall	CHECKED N. Skelton	APPROVED N. Skelton
1:500	DATE 03.11.2023	DATE 03.11.2023	DATE 03.11.2023

SUITABILITY CODE S2	SUITABILITY DESCRIPTION INFORMATION
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DRAWING No. 80169-NOD-01-XX-DR-C-08411	REVISION P01
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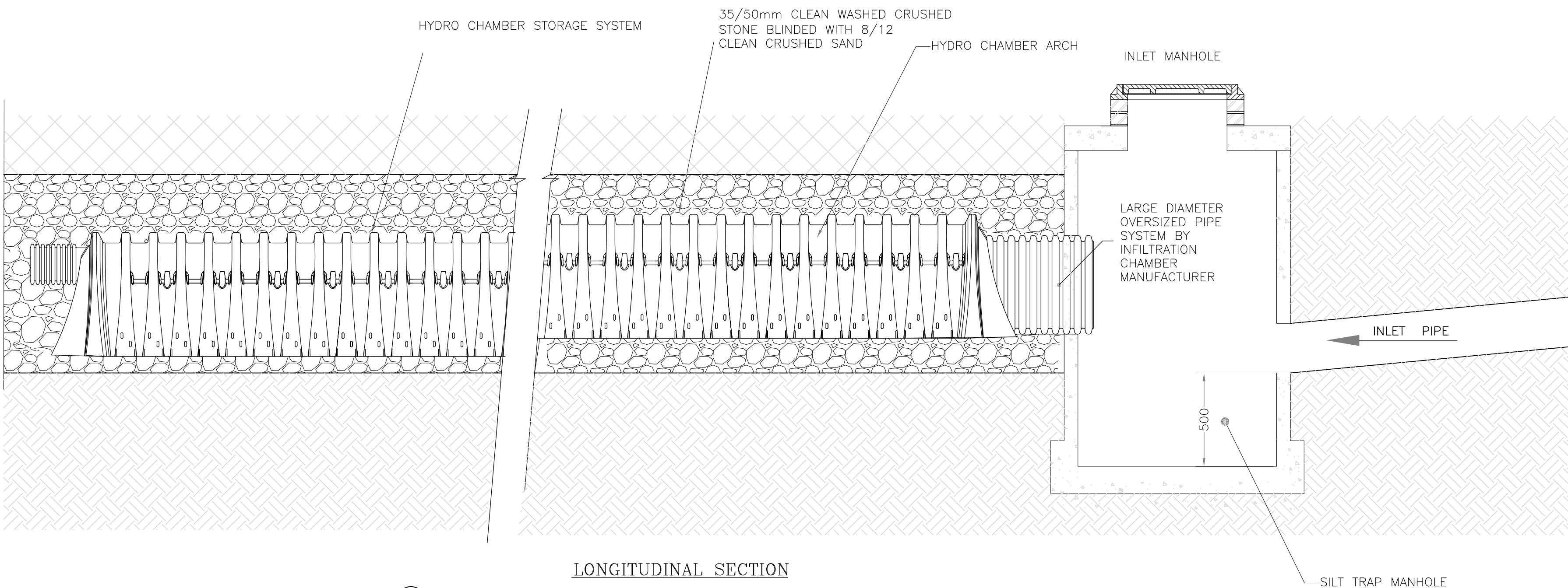
NOTE:
PROPOSED INFILTRATION CHAMBER:
DESIGNED TO CATER FOR 100 YEAR STORM EVENT.
TO BE CONSTRUCTED WITH 55% VOIDS RATIO USING
MICROSTRAIN MC 3500 CHAMBERS SURROUNDED IN
20-50mm CRUSHED ANGULAR STONE OR
SIMILAR APPROVED.

NOTE:
ATTACHED DETAIL IS TYPICAL
ATTENUATION CHAMBERS
SPECIFIED BY STORMTECH
A SIMILAR APPROVED PRODUCT
MAY BE USED



CROSS SECTION

17 TYPICAL SUDS INFILTRATION SYSTEM (STORMTECH MC 3500)



LONGITUDINAL SECTION

17 TYPICAL SUDS INFILTRATION SYSTEM (STORMTECH MC 3500)

NOTES

P01	03.11.2023	ISSUED FOR INFORMATION	FW	NS	NS
REV	DATE	DESCRIPTION	D	C	A

PROJECT No.	STAGE
80196	PLANNING

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Unit E4, Nutgrove Office Park,
Nutgrove Avenue, Dublin 14

T +353 1 296 9000
F +353 1 296 9001
E dublin@nodwyer.com
W www.nodwyer.com

CLIENT



T +353 1 707 2088
E cluid@cluid.ie

PROJECT

CLUID HOUSING LEIXLIP

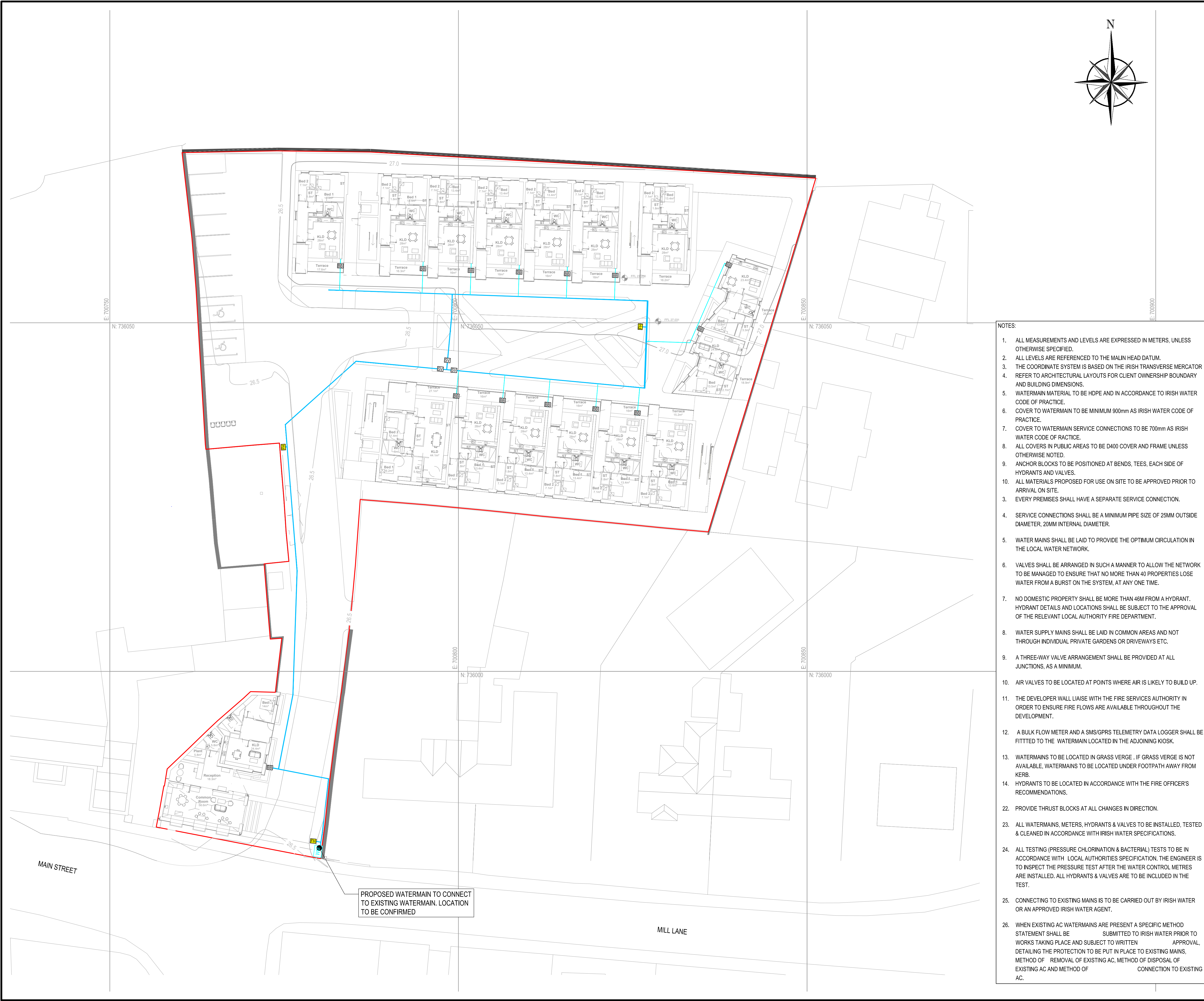
TITLE

SURFACE WATER
STANDARD DETAILS
SHEET 3

SCALES @ A1	DRAWN F. Walli	CHECKED N. Skelton	APPROVED N. Skelton
1:500	DATE 03.11.2023	DATE 03.11.2023	DATE 03.11.2023

SUITABILITY CODE S2	SUITABILITY DESCRIPTION INFORMATION
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DRAWING No. 80169-NOD-01-XX-DR-C-08412	REVISION P01
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- NOTES:
- ALL MEASUREMENTS AND LEVELS ARE EXPRESSED IN METERS, UNLESS OTHERWISE SPECIFIED.
 - ALL LEVELS ARE REFERENCED TO THE MALIN HEAD DATUM.
 - THE COORDINATE SYSTEM IS BASED ON THE IRISH TRANSVERSE MERCATOR
 - REFER TO ARCHITECTURAL LAYOUTS FOR CLIENT OWNERSHIP BOUNDARY AND BUILDING DIMENSIONS.
 - WATERMAIN MATERIAL TO BE HDPE AND IN ACCORDANCE TO IRISH WATER CODE OF PRACTICE.
 - COVER TO WATERMAIN TO BE MINIMUM 900mm AS IRISH WATER CODE OF PRACTICE.
 - COVER TO WATERMAIN SERVICE CONNECTIONS TO BE 700mm AS IRISH WATER CODE OF RACTICE.
 - ALL COVERS IN PUBLIC AREAS TO BE D400 COVER AND FRAME UNLESS OTHERWISE NOTED.
 - ANCHOR BLOCKS TO BE POSITIONED AT BENDS, TEES, EACH SIDE OF HYDRANTS AND VALVES.
 - ALL MATERIALS PROPOSED FOR USE ON SITE TO BE APPROVED PRIOR TO ARRIVAL ON SITE.
 - EVERY PREMISES SHALL HAVE A SEPARATE SERVICE CONNECTION.
 - SERVICE CONNECTIONS SHALL BE A MINIMUM PIPE SIZE OF 25MM OUTSIDE DIAMETER, 20MM INTERNAL DIAMETER.
 - WATER MAINS SHALL BE LAID TO PROVIDE THE OPTIMUM CIRCULATION IN THE LOCAL WATER NETWORK.
 - VALVES SHALL BE ARRANGED IN SUCH A MANNER TO ALLOW THE NETWORK TO BE MANAGED TO ENSURE THAT NO MORE THAN 40 PROPERTIES LOSE WATER FROM A BURST ON THE SYSTEM, AT ANY ONE TIME.
 - NO DOMESTIC PROPERTY SHALL BE MORE THAN 46M FROM A HYDRANT. HYDRANT DETAILS AND LOCATIONS SHALL BE SUBJECT TO THE APPROVAL OF THE RELEVANT LOCAL AUTHORITY FIRE DEPARTMENT.
 - WATER SUPPLY MAINS SHALL BE LAID IN COMMON AREAS AND NOT THROUGH INDIVIDUAL PRIVATE GARDENS OR DRIVEWAYS ETC.
 - A THREE-WAY VALVE ARRANGEMENT SHALL BE PROVIDED AT ALL JUNCTIONS, AS A MINIMUM.
 - AIR VALVES TO BE LOCATED AT POINTS WHERE AIR IS LIKELY TO BUILD UP.
 - THE DEVELOPER WALL LIAISE WITH THE FIRE SERVICES AUTHORITY IN ORDER TO ENSURE FIRE FLOWS ARE AVAILABLE THROUGHOUT THE DEVELOPMENT.
 - A BULK FLOW METER AND A SMS/GPRS TELEMETRY DATA LOGGER SHALL BE FITTED TO THE WATERMAIN LOCATED IN THE ADJOINING KIOSK.
 - WATERMAINS TO BE LOCATED IN GRASS VERGE . IF GRASS VERGE IS NOT AVAILABLE, WATERMAINS TO BE LOCATED UNDER FOOTPATH AWAY FROM KERB.
 - HYDRANTS TO BE LOCATED IN ACCORDANCE WITH THE FIRE OFFICER'S RECOMMENDATIONS.
 - PROVIDE THRUST BLOCKS AT ALL CHANGES IN DIRECTION.
 - ALL WATERMAINS, METERS, HYDRANTS & VALVES TO BE INSTALLED, TESTED & CLEANED IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
 - ALL TESTING (PRESSURE CHLORINATION & BACTERIAL) TESTS TO BE IN ACCORDANCE WITH LOCAL AUTHORITIES SPECIFICATION. THE ENGINEER IS TO INSPECT THE PRESSURE TEST AFTER THE WATER CONTROL METRES ARE INSTALLED. ALL HYDRANTS & VALVES ARE TO BE INCLUDED IN THE TEST.
 - CONNECTING TO EXISTING MAINS IS TO BE CARRIED OUT BY IRISH WATER OR AN APPROVED IRISH WATER AGENT.
 - WHEN EXISTING AC WATERMAINS ARE PRESENT A SPECIFIC METHOD STATEMENT SHALL BE SUBMITTED TO IRISH WATER PRIOR TO WORKS TAKING PLACE AND SUBJECT TO WRITTEN APPROVAL, DETAILING THE PROTECTION TO BE PUT IN PLACE TO EXISTING MAINS, METHOD OF REMOVAL OF EXISTING AC, METHOD OF DISPOSAL OF EXISTING AC AND METHOD OF CONNECTION TO EXISTING AC.

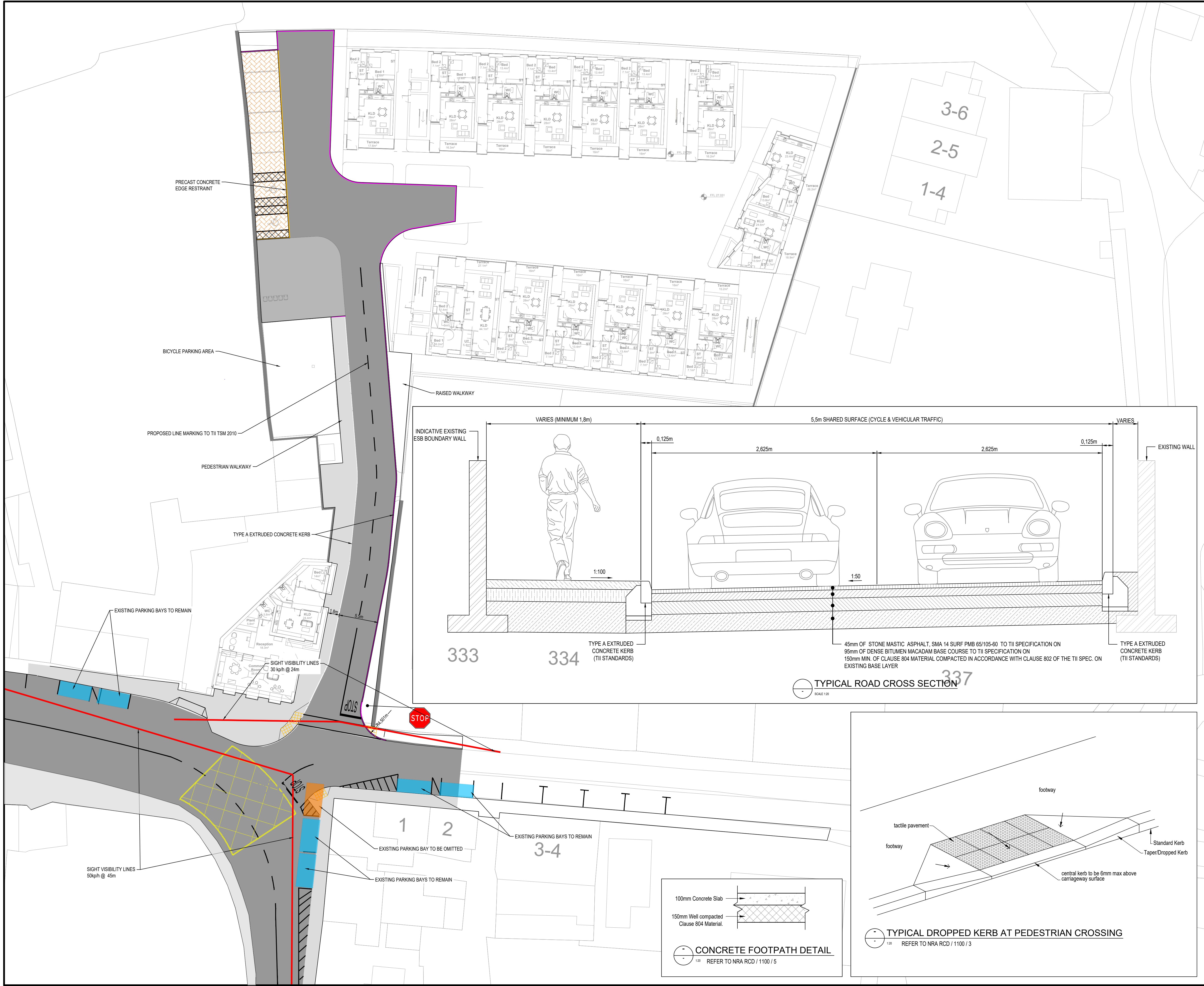
NOTES

- ALL MEASUREMENTS AND LEVELS ARE EXPRESSED IN METERS, UNLESS OTHERWISE SPECIFIED.
- ALL LEVELS ARE REFERENCED TO THE MALIN HEAD DATUM.
- THE COORDINATE SYSTEM IS BASED ON THE IRISH TRANSVERSE MERCATOR
- REFER TO ARCHITECTURAL LAYOUTS FOR CLIENT OWNERSHIP BOUNDARY AND BUILDING DIMENSIONS.

LEGEND

- PROPERTY BOUNDARY LINE
- PROPOSED 100mm Ø WATER RING MAIN
- PROPOSED WATER CONNECTION PIPE TO UNITS WITH BOUNDARY BOX
- PROPOSED WATERMAIN SLUCE GATE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER METER

P02	16.08.2023	ISSUED FOR INFORMATION	FW	NS	NS
P01	03.11.2023	ISSUED FOR INFORMATION	FW	NS	NS
REV	DATE	DESCRIPTION	D	C	A
PROJECT No. 80196		STAGE PLANNING			
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CLIENT		 Dublin 8, DOCK 6 BX T +353 1 767 2088 E cluid@cluid.ie			
PROJECT CLUID HOUSING LEIXLIP					
TITLE WATER SUPPLY LAYOUT PLAN					
SCALES @ A1	DRAWN F. Walil	CHECKED N. Skelton	APPROVED N. Skelton		
1:500	DATE 03.11.2023	DATE 03.11.2023	DATE 03.11.2023		
SUITABILITY CODE S2	SUITABILITY DESCRIPTION INFORMATION				
DRAWING No. 80169-NOD-01-XX-DR-C-08501			REVISION P01		



NOTES

1. 1 NO. PARKING SPACE IS REMOVED

2. SIGHT-LINES DRAWN AS PER DMURS.

LEGEND

PARKING SPACE TO BE REMAINED

PARKING SPACE TO BE REMOVED

P03	2025.05.16	INTERSECTION & ROAD MARKINGS UPDATED	FW	JM	NS
P02	2024.08.16	INTERSECTION & ROAD MARKINGS UPDATED	FW	NS	NS
P01	2023.11.03	ISSUED FOR INFORMATION	FW	NS	NS
REV	DATE	DESCRIPTION	D	C	A

PROJECT No.

STAGE

WORK IN PROGRESS

NICHOLAS O'DWYER

an RSK company

Unit E4, Nutgrove Office Park,
Nutgrove Avenue, Dublin 14
T +353 1 296 9000
F +353 1 296 9001
E dublin@nodwyer.com
W www.nodwyer.com

CLIENT

cluid housing

T +353 1 707 2088
E cluid@cluid.ie

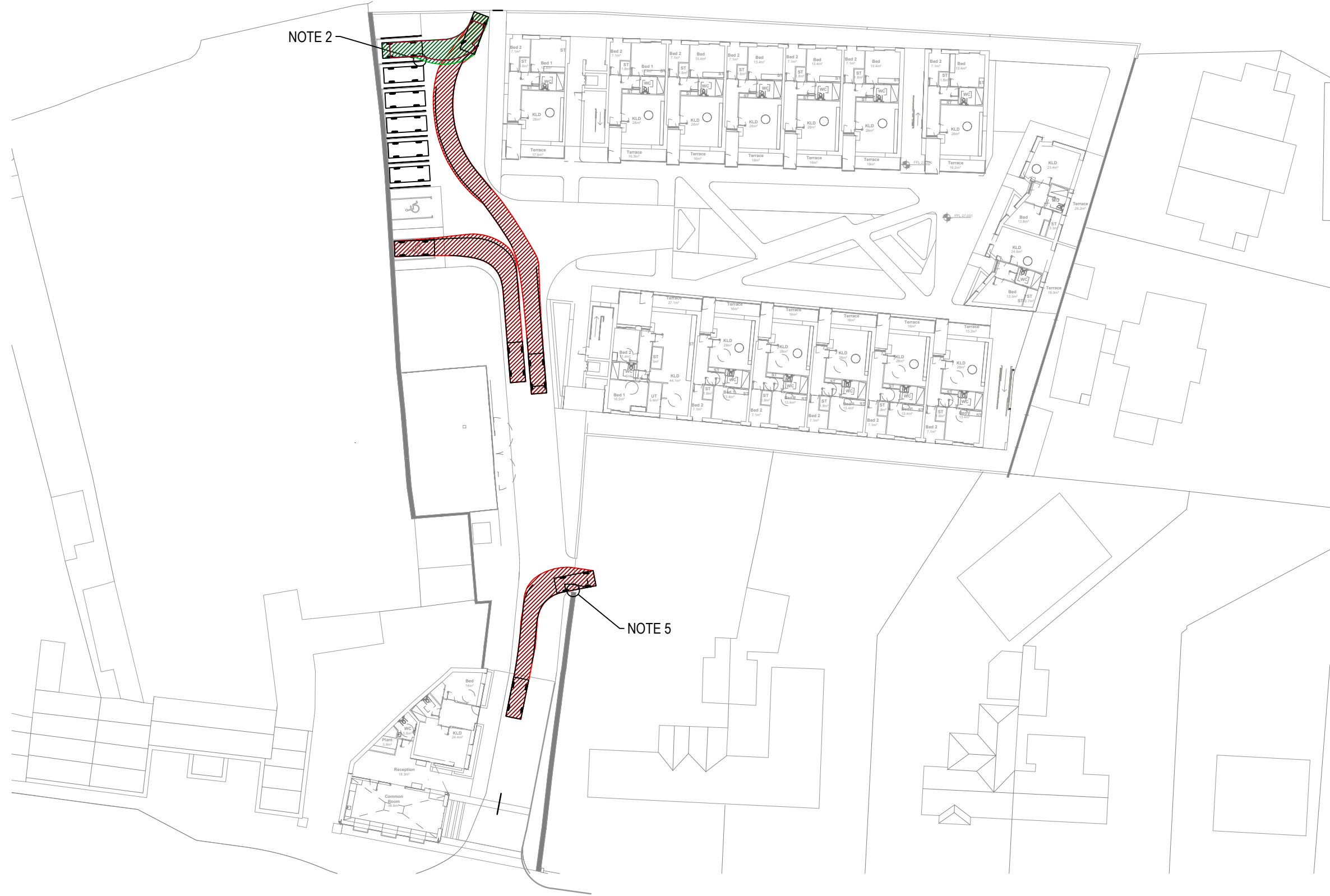
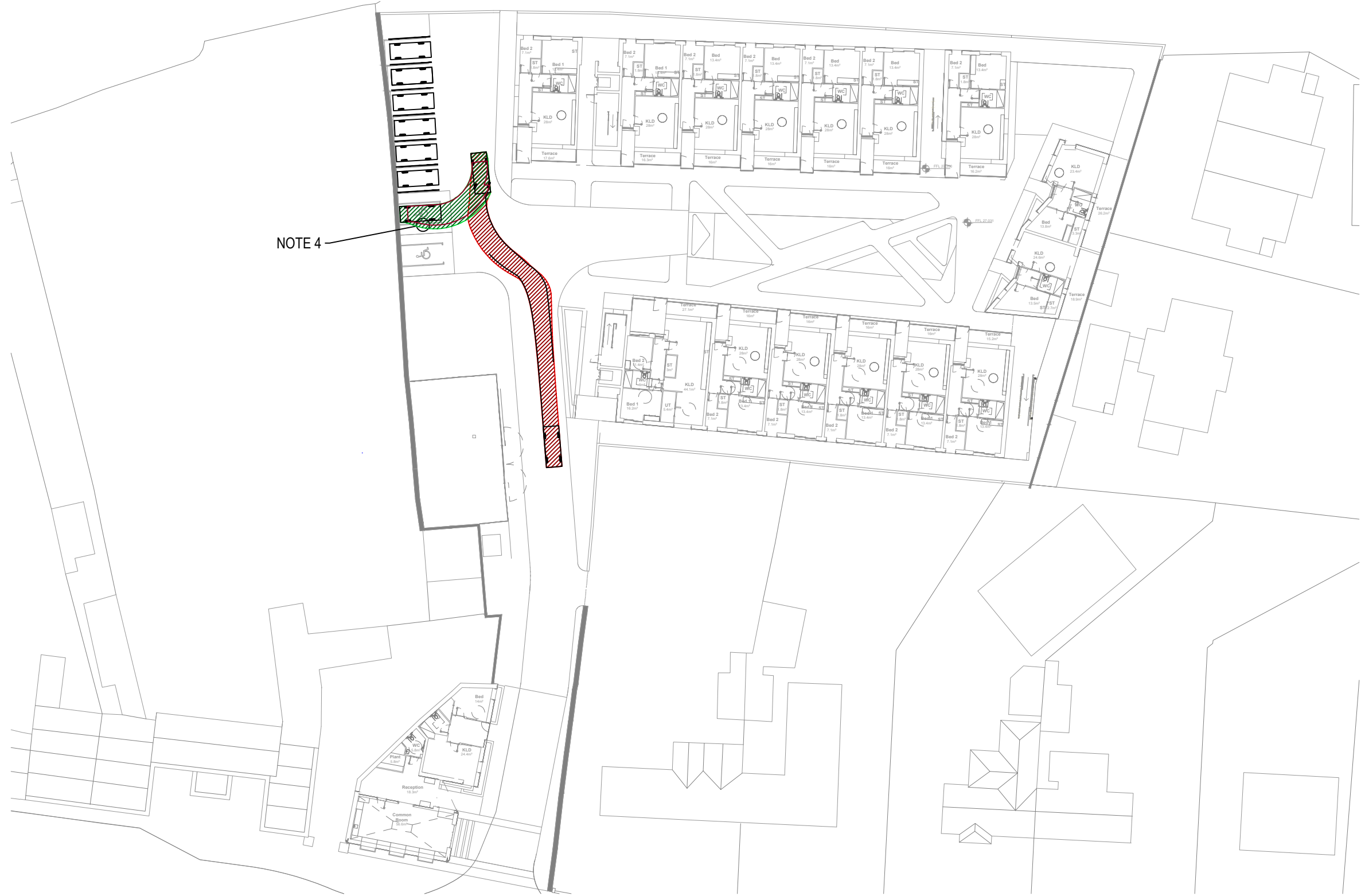
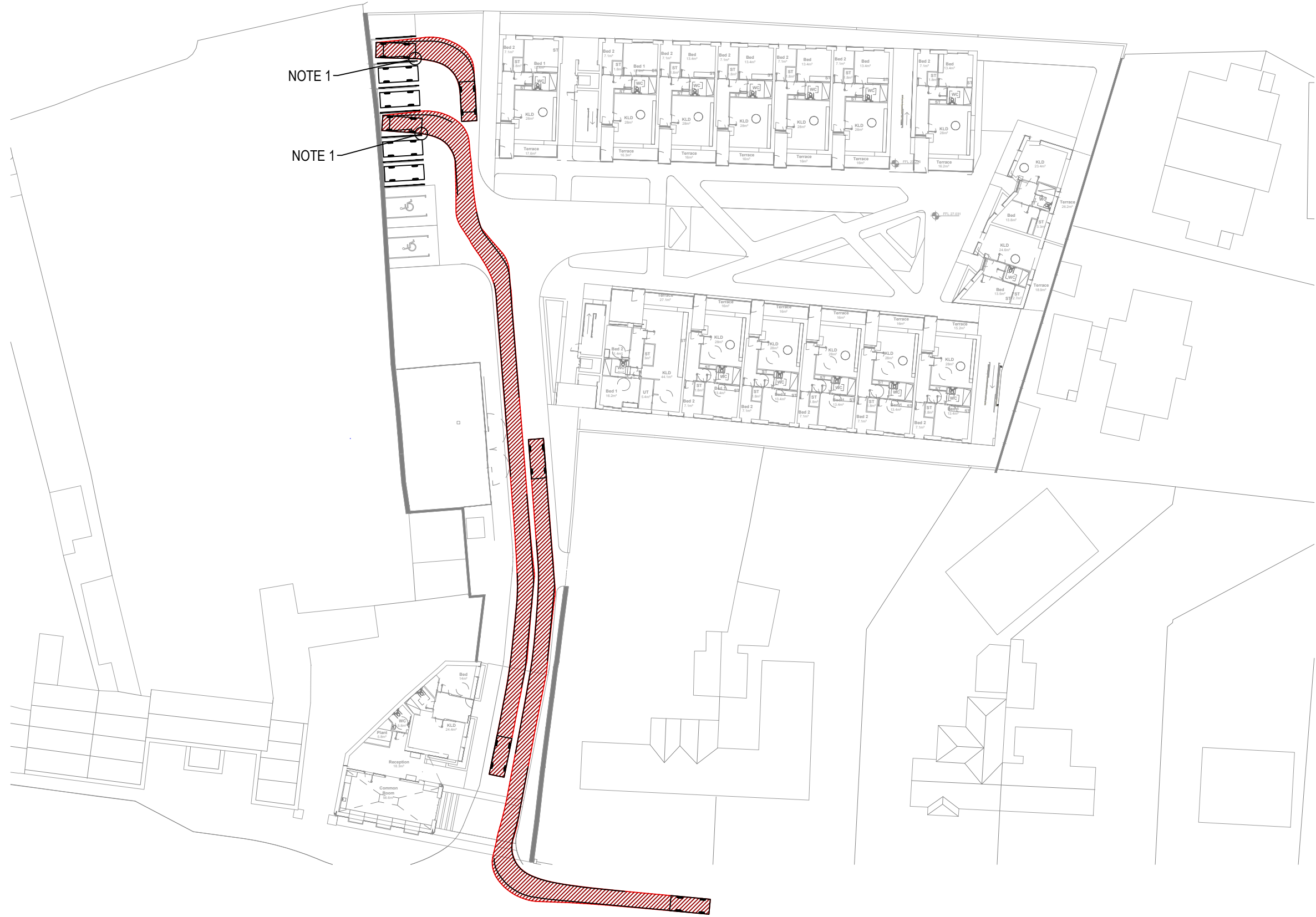
PROJECT

CLUID HOUSING LEIXLIP

TITLE

ROADWAY ACCESS LAYOUT AND DETAILS

SCALES @ A1	DRAWN	CHECKED	APPROVED
AS SHOWN	F. Wall	J. Muro	N. Skelton
SUITABILITY CODE	DATE	DATE	DATE
S2	2025.05.16	2025.05.16	2025.05.16
SUITABILITY DESCRIPTION	INFORMATION		
DRAWING No.	REVISION		
80169-NOD-01-XX-DR-C-08601	P03		

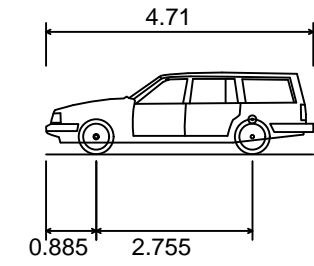


NOTES

NOTES:

- SUCCESSFUL SINGLE TURNING MOVEMENT INTO THE PARKING BAY.
- SUCCESSFUL REVERSE MOVEMENT OUT OF PARKING BAY. REVERSING VEHICLE DOES NOT CLASH WITH ADJACENT PARKED VEHICLE.
- SUCCESSFUL TURNING MOVEMENT INTO DISABLE PARKING BAY.
- SUCCESSFUL TURNING MOVEMENT OUT OF DISABLE PARKING BAY.
- SUCCESSFUL TURNING MOVEMENT FROM ACCESS ROAD TO ADJACENT NEIGHBOURS PROPERTY.

Estate Car (Medium sized passenger vehicle)

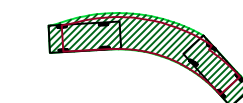


Overall Length	4.710m
Overall Width	1.804m
Overall Body Height	1.442m
Min Body Ground Clearance	0.207m
Max Track Width	1.756m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	5.950m

FORWARD MOVEMENT (RED)



REVERSE MOVEMENT (GREEN)



P02	16.08.2024	ISSUED FOR INFORMATION	FW	NS	NS
P01	03.11.2023	ISSUED FOR INFORMATION	FW	NS	NS
REV	DATE	DESCRIPTION	D	C	A

PROJECT No.	STAGE
80196	PLANNING

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Unit E4, Nutgrove Office Park,
Nutgrove Avenue, Dublin 14
T +353 1 296 9000
F +353 1 296 9001
E dublin@nodwyer.com
W www.nodwyer.com

CLIENT



T +353 1 707 2088
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PROJECT

CLUID HOUSING LEIXLIP

TITLE

ROADS
VEHICLE TRACKING
PASSENGER VEHICLE

SCALES @ A1	DRAWN	CHECKED	APPROVED
1:500	F. Walil	N. Skelton	N. Skelton
	DATE	DATE	DATE
	03.11.2023	03.11.2023	03.11.2023

SUITABILITY CODE	SUITABILITY DESCRIPTION
S2	INFORMATION

DRAWING No.	REVISION
80169-NOD-01-XX-DR-C-08801	P02



FIRE TRUCK VEHICLE TRACKING



BIN LORRY VEHICLE TRACKING

NOTES

1. ACCESS ROAD ACCESS HAS SUFFICIENT SPACE FOR SUCCESSFUL TURNING MOVEMENT.

2. SUCCESSFUL REVERSE AND TURNING MOVEMENT

3. BUILDING OVERHANG DOES NOT CLASH WITH BIN LORRY TURNING MOVEMENT.

Fire Truck

7.7

1.382

4.2

Overall Length

7.700m

Overall Width

2.430m

Overall Body Height

3.512m

Min Body Ground Clearance

0.397m

Track Width

2.380m

Lock-to-lock time

5.00s

Curb to Curb Turning Radius

7.400m

Bin Lorry

11.2

1.67

4.815

5.508

1.385

Overall Length

11.200m

Overall Width

2.530m

Overall Body Height

3.751m

Min Body Ground Clearance

0.304m

Track Width

2.500m

Lock-to-lock time

4.00s

Curb to Curb Turning Radius

9.500m

FORWARD MOVEMENT (RED)

REVERSE MOVEMENT (GREEN)

P02	16.08.2024	FOR INFORMATION		FW	NS	NS	
P01	03.11.2023	FOR INFORMATION		FW	NS	NS	
REV	DATE	DESCRIPTION		D	C	A	
PROJECT No.		STAGE	PLANNING				
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<div><div><div><div></div><div>clúid housing</div></div></div><div>T +353 1 707 2088 E cluid@cluid.ie</div></div>		PROJECT					
CLUID HOUSING LEIXLIP		TITLE					
ROADS VEHICLE TRACKING RIGID SERVICE VEHICLES		SCALES @ A1					
1:500		DRAWN F. Walil		CHECKED N. Skelton		APPROVED N. Skelton	
DATE 2023.11.03		DATE 2023.11.03		DATE 2023.11.03			
SUITABILITY CODE S2		SUITABILITY DESCRIPTION INFORMATION					
DRAWING No. 80169-NOD-01-XX-DR-C-08802		REVISION P02					