

1. ALL NOTED LEVELS ARE TO ORDNANCE DATUM, MALIN HEAD.
2. REFER TO ARCHITECT'S LAYOUT FOR ALL SET-OUT INFORMATION.
3. REFER TO ARCHITECT / LANDSCAPE ARCHITECT'S DESIGN DRAWINGS FOR DETAILS OF PROPOSED SURFACE FINISHES AND LANDSCAPING.
4. REFER TO ARCHITECT DRAWINGS FOR DETAILS OF PRIVATE DRAINAGE.
5. ALL SURFACE WATER DRAINAGE IS TO BE INSTALLED IN ACCORDANCE WITH THE GREATER DUBLIN REGION CODE OF PRACTICE FOR DRAINAGE WORKS, THE BUILDING REGULATIONS PART H AND THE SITE DEVELOPMENT SPECIFICATION.
6. ALL WASTEWATER DRAINAGE IS TO BE INSTALLED IN ACCORDANCE WITH THE IRISH WATER BOARD CODE OF PRACTICE FOR DRAINAGE WORKS (REVISION 2 - JULY 2020), THE BUILDING REGULATIONS PART H AND THE SITE DEVELOPMENT SPECIFICATION.
7. ALL DRAINAGE COVER LEVELS ARE TO BE COORDINATED WITH PROPOSED ROAD DESIGN LEVELS AND ARCHITECT'S LANDSCAPE ARCHITECT'S PROPOSED FINISH LEVELS.
8. ALL BASEMENT CHAMBER COVERS TO BE DOUBLE SEALED, AND CLASSIFICATION D400 LOADING WHERE LOCATED IN VEHICULAR AREAS.
9. ALL CONNECTIONS TO NEW DRAINAGE NETWORKS ARE TO BE MADE AT AN ANGLE OF 90 DEGREES IN THE DIRECTION OF FLOW.
10. REFER TO ARCHITECT AND MS/ENGINEERING DESIGN DRAWINGS FOR CONFIRMATION OF LOCATION AND SPECIFICATION OF FLOOR GULLIES.
11. REFER TO MS ENGINEERING DESIGN FOR CONFIRMATION OF WASTE AND SANITARY POP-UP/OUTLET LOCATIONS.
12. ALL CONNECTIONS TO SEWERS TO INVERT LEVEL AT PROPOSED CONNECTION TO EXISTING SEWERS, PRIOR TO ANY OTHER WORKS BEING CARRIED OUT, AND MAKE ANY DISCREPANCIES KNOWN TO THE ENGINEER.
13. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMATION OF PRESENCE ALL EXISTING UTILITIES, IF ANY, ALONG ROUTE OF PROPOSED DRAINAGE NETWORKS - BY INTRUSIVE INVESTIGATION OR EQUAL.
14. EXISTING PUBLIC SEWER TO BE JET CLEANED AND CCTV SURVEYED PRIOR TO, AND AFTER PROPOSED CONNECTIONS FROM NEW NETWORK.
15. ALL MAIN DRAINAGE STRUCTURES TO BE JET CLEANED AND CCTV SURVEYED, WITH ANY NOTED DEFECTS REMEDIATED, ON COMPLETION OF WORKS, TO THE SATISFACTION OF THE LOCAL AUTHORITY.
16. WHERE MANHOLE COVERS ARE TO BE LOCATED IN SOFT LANDSCAPE/GRASS AREAS; TO ENSURE THAT MANHOLE COVERS ARE IDENTIFIABLE, ACCESSIBLE AND WILL NOT BECOME OVERGROWN, COVERS ARE TO BE SURROUNDED BY A CONCRETE PLINTH, 200MM ALL ROUND AND 100MM DEEP FORMED WITH C20/25 CONCRETE, 20MM AGGREGATE SIZE, BEDDED IN CLAUSE 804 MATERIAL.
17. ALL DRAINAGE COVERS TO BE LOCATED TO THE IRISH WATER CODE OF PRACTICE SECTION 9.3, WHERE THE REQUIRED CAN NOT BE REACHED PIPES TO BE PROTECTED WITH CONCRETE SURROUND

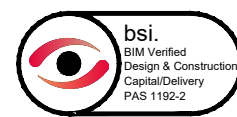
1. REFER TO DRAWING -OCSC-XX-XX-DR-C-0510 FOR THE SURFACE WATER LONGSECTIONS.
2. REFER TO DRAWING -OCSC-XX-XX-DR-C-0515 FOR THE WASTEWATER LONGSECTIONS
3. REFER TO DRAWING -OCSC-XX-XX-DR-C-0550 FOR THE WATERMAIN LAYOUT.

1. ALL NOTED LEVELS ARE TO ORDNANCE DATUM, MALIN HEAD.	
2. REFER TO ARCHITECT'S LAYOUT FOR ALL SET-OUT INFORMATION.	
3. REFER TO ARCHITECT / LANDSCAPE ARCHITECT'S DESIGN DRAWINGS FOR DETAILS OF PROPOSED SURFACE FINISHES AND LANDSCAPING.	
4. REFER TO ARCHITECT DRAWINGS FOR DETAILS OF PRIVATE DRAINAGE.	
5. ALL SURFACE WATER DRAINAGE IS TO BE INSTALLED IN ACCORDANCE WITH THE GREATER DUBLIN REGION CODE OF PRACTICE FOR DRAINAGE WORKS, THE BUILDING REGULATIONS PART H AND THE SITE DEVELOPMENT SPECIFICATION.	
6. ALL BAR PARK DRAINAGE IS TO BE INSTALLED IN ACCORDANCE WITH THE GREATER DUBLIN REGION CODE OF PRACTICE FOR DRAINAGE WORKS, THE BUILDING REGULATIONS PART H AND THE SITE DEVELOPMENT SPECIFICATION.	
7. ALL WASTEWATER DRAINAGE IS TO BE INSTALLED IN ACCORDANCE WITH THE IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE (REVISION 2 - JULY 2020), THE BUILDING REGULATIONS PART H AND THE SITE DEVELOPMENT SPECIFICATION.	
8. ALL DRAINAGE COVER LEVELS ARE TO BE COORDINATED WITH PROPOSED ROAD DESIGN LEVELS AND ARCHITECT/LANDSCAPE ARCHITECT'S PROPOSED FINISH LEVELS.	
9. ALL BASEMENT CHAMBER COVERS TO BE DOUBLE SEALED, AND CLASSIFICATION D400 LOADING WHERE LOCATED IN VEHICULAR AREAS.	
10. ALL CONNECTIONS TO NEW DRAINAGE NETWORKS ARE TO BE MADE AT AN ANGLE OF 90° OR IN THE DIRECTION OF FLOW.	
11. REFER TO ARCHITECT AND M&E ENGINEERING DESIGN DRAWINGS FOR CONFIRMATION OF LOCATION AND SPECIFICATION OF FLOOR GULLIES.	
12. REFER TO M&E ENGINEERING DESIGN FOR CONFIRMATION OF WASTE AND SANITARY POOP-UP/OUTLET LOCATIONS.	
13. THE CONTRACTOR IS TO VERIFY INVERT LEVEL AT PROPOSED CONNECTION TO EXISTING SERVICES, PRIOR TO ANY OTHER WORKS BEING CARRIED OUT, AND MAKE ANY DISCREPANCIES KNOWN TO THE ENGINEER.	
14. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMATION OF PRESENCE ALL EXISTING UTILITIES, IF ANY, ALONG ROUTE OF PROPOSED DRAINAGE NETWORKS - BY INTRUSIVE INVESTIGATION OR EQUAL.	
15. EXISTING PUBLIC SEWER TO BE JET CLEANED AND CCTV SURVEYED PRIOR TO, AND AFTER PROPOSED CONNECTIONS FROM NEW NETWORK.	
16. ALL NEW DRAINAGE INFRASTRUCTURE TO BE JET CLEANED AND CCTV SURVEYED, WITH ANY NOTED DEFECTS REMEDIATED, ON COMPLETION OF WORKS, TO THE SATISFACTION OF THE LOCAL AUTHORITY.	
17. WHERE MANHOLE COVERS ARE TO BE LOCATED IN SOFT LANDSCAPED/GRASS AREAS; TO ENSURE THAT MANHOLE COVERS ARE IDENTIFIABLE, ACCESSIBLE AND WILL NOT BECOME OVERGROWN, COVERS ARE TO BE SURROUNDED BY A CONCRETE PLINTH, 200MM ALL ROUND AND 100MM DEEP FORMED WITH C20/25 CONCRETE, 20MM	

1. REFER TO DRAWING -OCSC-XX-XX-DR-C-0510 FOR THE SURFACE WATER LONGSECTIONS.
2. REFER TO DRAWING -OCSC-XX-XX-DR-C-0515 FOR THE WASTEWATER LONGSECTIONS
3. REFER TO DRAWING -OCSC-XX-XX-DR-C-0550 FOR THE WATERMAIN LAYOUT.

- FOR SETTING OUT REFER TO ARCHITECT'S DRAWINGS.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ARCHITECTURAL AND ENGINEERING DRAWINGS AND ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE THIS DRAWING. USE FIGURED DIMENSIONS ONLY.
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Rev No.	Date	Revision Note	Drn by	Chkd by
P01	17/09/21	ISSUED FOR INFORMATION	MK	AH
P02	14/10/21	REVISED RED LINE BOUNDARY	MKo	AH
P03	19/10/21	STAGE COMPLETE - SUITABLE FOR INFORMATION	RM	SMG
P04	27/04/22	FOR PLANNING	RM	MKo
P05	11/05/22	REVISED DRAINAGE LAYOUT	MKo	MK
P06	03/06/22	REVISED DRAINAGE LAYOUT	MKo	MK
P07	05.07.22	REVISED DRAINAGE LAYOUT	MKo	MK

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Date: 06/09/21 Scale: 1/500 @ A1 Drn by: MK Chkd by: AH Aprvd by: AH

SURFACE WATER DRAINAGE NETWORK DETAILS										
USMH	USCL (m)	PN	Length (m)	USIL (m)	US C.Depth (m)	Slope (1:X)	Dia (mm)	DSIL (m)	DS C.Depth (m)	DSMH
S1	154.047	S1.000	59.239	152.622	1.200	23.0	225	150.046	1.194	S6
S5	154.507	S2.002	24.457	152.757	1.518	20.0	225	151.534	1.252	S6
S6	153.011	S2.003	19.710	151.534	1.252	20.0	225	150.549	0.704	S7
S7	151.478	S2.004	11.983	150.549	0.704	25.0	225	150.069	1.171	S8
S8	151.465	S1.001	36.465	150.046	1.194	20.0	225	148.223	1.212	S20
S20	149.660	S1.002	14.879	148.057	1.378	25.0	225	147.462	1.214	S27
S24	151.500	S5.002	23.845	149.000	2.275	164.5	225	148.855	1.340	S25
S25	150.420	S5.003	26.216	148.855	1.340	35.0	225	148.106	0.665	S26
S26	148.996	S5.004	8.631	148.106	0.665	20.0	225	147.674	1.002	S27
S27	148.901	S1.003	26.552	147.462	1.214	20.0	225	146.134	1.173	S28
S28	147.533	S1.004	16.025	146.134	1.173	20.0	225	145.333	1.208	S29
S29	146.766	S1.005	14.605	145.333	1.208	20.0	225	144.603	1.246	S30
S30	146.074	S1.006	21.557	144.603	1.246	20.0	225	143.525	1.260	S43
S38	146.036	S7.005	26.017	144.203	1.608	170.0	225	144.050	0.735	S45
S49	145.010	S1.007	9.084	143.450	1.260	20.0	300	142.996	1.212	S50
S50	144.516	S1.008	10.582	142.996	1.221	20.0	300	142.467	0.233	S51
S51	143.000	S1.009	13.767	141.253	1.447	20.0	300	140.565	1.235	S52
S52	142.100	S1.010	37.692	140.565	1.310	19.8	225	138.660	1.415	S53
S53	140.300	S1.011	17.735	138.585	1.415	251.6	300	138.515	4.499	S54
S54	143.314	S1.012	17.356	138.515	4.499	246.2	300	138.444	4.486	S63
S63	143.230	S1.013	19.957	138.444	4.486	186.6	300	138.338	4.079	S66
S68	142.718	S1.014	10.778	138.338	4.079	185.2	300	138.280	3.580	S77
S74	143.692	S12.004	25.811	141.660	1.807	100.0	225	141.402	0.996	S75
S75	142.623	S12.005	9.718	141.402	0.996	50.1	225	141.208	1.084	S76
S76	142.517	S12.006	7.099	141.208	1.084	50.0	225	141.066	0.869	S77
S77	142.160	S1.015	9.854	138.280	3.580	170.0	300	138.222	3.178	S85
S80	144.000	S14.002	12.123	141.401	2.374	245.0	225	141.352	1.523	S87
S81	143.100	S14.003	10.017	141.352	1.523	244.3	225	141.311	1.426	S82
S82	142.962	S14.004	8.327	141.311	1.426	25.0	225	140.978	1.007	S83
S83	142.210	S14.005	5.311	140.978	1.007	25.0	225	140.765	1.097	S84
S84	141.087	S14.006	9.140	140.765	1.097	25.0	225	140.400	1.075	S85
S85	141.700	S1.016	10.208	138.222	3.253	170.0	225	138.162	3.068	S86
S86	141.455	S1.017	10.582	138.162	3.068	407.0	225	138.136	2.566	S87
S87	140.927	S1.018	5.030	138.136	2.566	170.0	225	138.106	2.392	S88
S88	140.624	S1.019	8.083	138.106	2.292	170.0	225	138.059	2.235	

WASTEWATER DRAINAGE NETWORK DETAILS										
USMH	USCL (m)	PN	Length (m)	USIL (m)	US C.Depth (m)	Slope (1:X)	Dia (mm)	DSIL (m)	DS C.Depth (m)	DSMH
F1	153.91	F1.000	25.886	152.485	1.2	40	225	151.838	1.212	F2
F2	153.275	F1.001	47.341	151.838	1.212	20	225	149.471	1.218	F4
F3	149.86	F2.000	25.474	148.847	0.788	200	225	148.782	1.97	F4
F4	150.914	F1.002	26.051	148.72	1.97	50	225	148.199	1.196	F5
F5	149.619	F1.003	16.102	148.199	1.196	20	225	147.394	1.207	F6
F6	148.528	F1.004	27.18	147.394	1.207	20	225	146.035	1.248	F7
F7	147.806	F1.005	12.804	146.035	1.248	20	225	145.394	1.21	F8
F8	146.83	F1.006	12.86	145.394	1.21	20	225	144.751	1.155	F9
F9	146.132	F1.007	24.023	144.251	1.656	20	225	143.05	1.642	F10
F10	143.192	F3.000	24.16	142.217	0.75	200	225	142.096	2.596	F11
F11	144.917	F1.008	8.683	142.096	2.596	200	225	142.053	2.269	F12
F12	144.546	F1.009	8.33	142.053	2.269	200	225	142.011	1.955	F13
F13	144.191	F1.010	26.022	142.011	1.955	200	225	141.881	1.339	F14
F14	143.445	F1.011	19.333	141.881	1.339	200	225	141.784	1.336	F15
F15	143.346	F1.012	20.861	141.784	1.336	200	225	141.68	1.36	F16
F16	143.265	F1.013	23.413	140.88	2.16	200.1	225	140.763	1.655	F17
F17	142.643	F1.014	16.537	140.763	1.655	40	225	140.35	1.273	F20
F18	142.888	F4.000	10.066	141.08	1.583	50	225	140.879	1.232	F19
F19	142.335	F4.001	17.771	140.879	1.232	40	225	140.434	1.188	F20
F20	141.848	F1.015	28.164	140.275	1.473	22	300	138.995	1.212	F25
F21	140	F5.000	8.882	138.875	0.9	201.9	225	138.831	1.451	F23
F22	142	F6.000	29.457	140.575	1.2	200	225	140.428	1.347	F25
F23	142	F6.001	11.356	139.428	2.347	60	225	139.239	1.043	F25
F25	140.507	F1.016	10.401	138.756	1.451	200	300	138.704	1.501	F26
F25	140.507	F7.000	50.505	139.2	1.082	40	225	137.937	1.038	F28
F26	139.2	F7.001	66.834	137.937	1.038	200	225	137.603	1.472	F27
F27	139.3	F7.002	3.242	137.603	1.472	200	225	137.587	1.488	