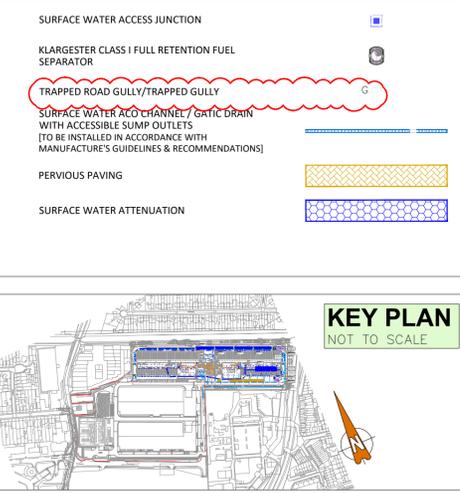
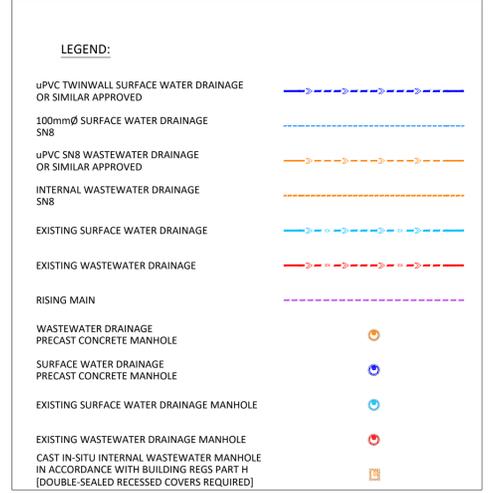


FOR DETAILED DESIGN INFORMATION REFER TO DRAWINGS  
 - LON1X2-OCS-CZ-ZZ-DR-C-4001 - 4002 [DRAINAGE LAYOUTS]  
 - LON1X2-OCS-CZ-ZZ-DR-C-4005 - 4009 [DRAINAGE LONGSECTIONS]

**FOR CONSTRUCTION**

**GENERAL NOTES:**

- ALL NOTED LEVELS ARE TO ORDNANCE DATUM.
- REFER TO ARCHITECT / LANDSCAPE ARCHITECT'S DESIGN DRAWINGS FOR DETAILS OF PROPOSED SURFACE FINISHES AND LANDSCAPING (INCLUDING GREEN ROOFS).
- ALL DRAINAGE COVER LEVELS ARE TO BE COORDINATED WITH PROPOSED ROAD DESIGN LEVELS AND ARCHITECT/LANDSCAPE ARCHITECT'S PROPOSED FINISH LEVELS.
- ALL INTERNAL CHAMBER COVERS TO BE DOUBLE SEALED, AND CLASSIFICATION D400 LOADING WHERE LOCATED IN VEHICULAR AREAS.
- ALL NEW DRAINAGE IS DESIGNED IN ACCORDANCE WITH SEWERS FOR ADOPTION AND BUILDING REGULATIONS PART H: DRAINAGE WASTE DISPOSAL SUBJECT TO RESTRICTIONS IMPOSED BY THE EXISTING BUILDING.
- ALL CONNECTIONS TO NEW DRAINAGE NETWORKS ARE TO BE MADE AT AN ANGLE OF 90° OR IN THE DIRECTION OF FLOW.
- REFER TO ARCHITECT AND M&E ENGINEERING DESIGN DRAWINGS FOR CONFIRMATION OF LOCATION AND SPECIFICATION OF FLOOR GULLIES.
- REFER TO M&E ENGINEERING DESIGN FOR CONFIRMATION OF WASTE AND SANITARY POP-UP/OUTLET LOCATIONS.
- THE CONTRACTOR IS TO VERIFY INVERT LEVEL AT PROPOSED CONNECTION TO EXISTING SEWERS, PRIOR TO ANY OTHER WORKS BEING CARRIED OUT, AND MAKE ANY DISCREPANCIES KNOWN TO THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMATION OF PRESENCE ALL EXISTING UTILITIES, IF ANY, ALONG ROUTE OF PROPOSED DRAINAGE NETWORKS - BY INTRUSIVE INVESTIGATION OR EQUAL.
- EXISTING PUBLIC SEWER TO BE JET CLEANED AND CCTV SURVEYED PRIOR TO, AND AFTER PROPOSED CONNECTIONS FROM NEW NETWORK. CONTRACTOR TO CONFIRM THE EXISTING MANHOLE LOCATIONS AND INVERTS PRIOR TO COMMENCEMENT. ENGINEER TO BE ADVISED IN WRITING OF ANY DISCREPANCIES FROM INFORMATION SHOWN ON RECORD DRAWINGS.
- 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.
- SEWERS - SUBJECT TO APPROVAL TO CONNECT [EXISTING THAMES SURFACE AND WASTEWATER].
- THE INTEGRITY OF THE EXCAVATIONS IS TO BE MAINTAINED BY THE CONTRACTOR AT ALL TIMES, REFER TO THE SOIL INVESTIGATIONS REPORT.
- UNDERGROUND SERVICES CO-ORDINATION IS ONGOING - DRAINAGE IS SUBJECT TO CHANGE



**SURFACE WATER NETWORK - NORTH**

USMH	USCL (m)	USIL (m)	PN	SLOPE (1:X)	DSCL (m)	DSL (m)	PIPE DIA. (mm)	USMH DIA. (mm)
1	28.188	26.763	1.000	170.0	28.302	26.625	225	1200
2	28.302	26.625	1.001	170.0	28.225	26.556	225	1200
3	28.311	26.603	2.000	60.0	28.225	26.556	225	1050
4	28.225	26.406	1.002	324.0	27.952	26.281	375	1350
5	28.071	26.487	3.000	60.0	27.952	26.431	225	1200
6	27.952	26.208	1.003	405.0	28.140	26.095	450	1350
7	28.233	26.608	4.000	60.0	28.140	26.751	225	1200
8	28.140	26.058	1.004	405.0	28.165	25.998	450	1350
9	28.274	26.849	5.000	60.0	28.165	26.790	225	1200
10	28.165	24.700	1.005	351.7	28.072	24.582	600	1500
11	28.143	26.718	6.000	170.0	28.175	26.896	225	1200
12	28.175	26.696	6.001	170.0	28.072	26.676	225	1200
13	28.072	24.582	1.006	332.0	28.279	24.457	600	1500
14	28.341	26.916	7.000	170.0	28.279	26.896	225	1200
15	28.279	24.457	1.007	334.7	28.463	24.333	600	1500
16	28.488	27.063	8.000	170.0	28.463	27.042	225	1200
17	28.463	24.333	1.008	330.7	28.258	24.208	600	1500
18	28.225	26.800	9.000	170.0	28.190	26.637	225	1200
19	28.190	26.637	9.001	170.0	28.235	26.587	225	1200
20	28.235	26.512	9.002	170.0	28.308	26.396	300	1200
21	28.308	26.396	9.003	170.0	28.258	26.378	300	1200
22	28.258	24.208	1.009	580.0	28.205	24.190	600	1500
23	28.205	24.190	1.010	580.0	28.182	24.181	600	1500

**SURFACE WATER NETWORK - SOUTH**

USMH	USCL (m)	USIL (m)	PN	SLOPE (1:X)	DSCL (m)	DSL (m)	PIPE DIA. (mm)	USMH DIA. (mm)
1	28.176	26.676	1.000	245.0	28.250	26.519	300	1200
2	28.250	26.623	2.000	80.0	28.250	26.594	225	1200
3	28.250	26.519	1.001	245.0	28.000	26.394	300	1200
4	28.289	26.740	3.000	178.7	28.000	26.394	300	1200
5	28.000	26.244	1.002	50.0	28.000	26.162	450	1350
6	28.000	26.162	1.003	50.0	28.350	25.938	450	1350
7	28.350	25.938	1.004	50.0	28.250	25.868	450	1350
8	28.275	26.500	4.000	170.0	28.260	26.458	225	1200
9	28.260	26.423	4.001	245.0	28.260	26.332	300	1200
10	28.350	26.524	5.000	30.0	28.260	26.407	225	1200
11	28.260	26.332	4.002	138.8	28.250	26.018	300	1200
12	28.250	25.716	1.005	70.9	28.043	25.416	600	1500
13	28.043	25.416	1.006	150.0	27.641	25.001	600	1500
14	27.641	25.001	1.007	580.0	28.179	24.941	600	1500
15	27.641	25.001	1.007	580.0	28.179	24.941	600	1500
16	28.179	24.941	1.008	580.0	28.132	24.862	600	1500
17	28.132	24.862	1.009	580.0	27.994	24.850	600	1500
18	27.994	24.850	1.010	580.0	28.000	24.827	600	1500
19	27.994	24.850	1.010	580.0	28.000	24.827	600	1500
20	27.994	24.850	1.010	580.0	28.000	24.827	600	1500
21	27.994	24.850	1.010	580.0	28.000	24.827	600	1500
22	27.994	24.850	1.010	580.0	28.000	24.827	600	1500
23	28.000	26.500	9.000	170.0	28.000	26.058	300	1200
24	28.000	26.058	9.001	170.0	28.000	26.029	300	1200
25	28.165	26.740	10.000	71.7	28.250	26.204	225	1200
26	28.250	26.243	11.000	60.0	28.250	26.204	225	1200
27	28.250	26.204	10.001	71.7	28.000	26.104	225	1200
28	28.000	26.029	9.002	170.0	28.000	26.006	300	1200
29	28.000	24.132	1.011	350.0	28.310	23.889	600	1500
30	28.310	23.889	1.012	560.0	28.284	23.865	600	1500
31	28.022	26.597	12.000	100.0	28.214	26.388	225	1200
32	28.214	26.388	12.001	170.0	28.284	26.348	1200	
33	28.284	23.865	1.013	560.0	27.878	23.839	600	1500
34	27.878	23.839	1.014	560.0	27.935	23.823	600	1500
35	27.935	23.823	1.015	560.0	27.965	23.816	600	1500

**SURFACE WATER NETWORK - NORTH OUTFALL**

USMH	USCL (m)	USIL (m)	PN	SLOPE (1:X)	DSCL (m)	DSL (m)	PIPE DIA. (mm)	USMH DIA. (mm)
1	28.052	26.627	1.000	170.0	28.150	26.609	225	1200

**SURFACE WATER NETWORK - SOUTH OUTFALL**

USMH	USCL (m)	USIL (m)	PN	SLOPE (1:X)	DSCL (m)	DSL (m)	PIPE DIA. (mm)	USMH DIA. (mm)
1	28.058	26.847	1.000	170.0	28.166	26.808	225	1200

**WASTEWATER NETWORK**

USMH	USCL (m)	USIL (m)	PN	SLOPE (1:X)	DSCL (m)	DSL (m)	PIPE DIA. (mm)	USMH DIA. (mm)
WW1	28.250	27.024	1.000	80.0	28.250	26.695	150	
WW2	28.250	26.695	1.001	80.0	28.400	26.475	150	
WW3	28.400	26.475	1.002	80.0	28.400	26.396	150	
WW4	28.400	26.396	1.003	80.0	28.400	26.292	150	
WW5	28.400	26.292	1.004	80.0	28.400	26.213	150	
WW6	28.250	26.987	1.005	80.0	28.250	26.870	150	
WW7	28.250	26.870	1.006	80.0	28.250	26.503	150	
WW8	28.250	26.503	1.007	80.0	28.400	26.213	150	
WW9	28.400	26.213	1.008	80.0	28.400	26.160	150	
WW10	28.400	26.160	1.009	80.0	28.400	26.075	150	
WW11	28.400	26.075	1.010	80.0	28.194	25.967	150	
WW12	28.194	25.967	1.011	80.0	28.313	25.178	150	

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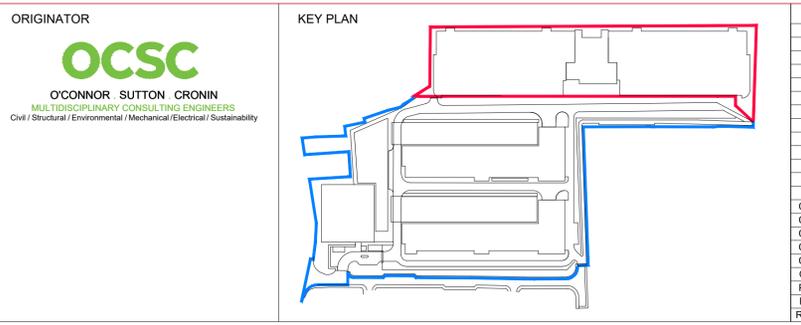
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**KEY PLAN**  
 NOT TO SCALE

**Legend:**

C6	LEGEND UPDATED AS CLOUDED	MC	DC	14.03.25
C5	GULLIES ADDED AS CLOUDED	MC	DC	06.02.25
C4	LEGEND UPDATED AS CLOUDED	MC	COM	29.01.25
C3	LAYOUT UPDATED	RC	COM	20.12.24
C2	LEGEND UPDATED	COR	COM	05.12.24
C1	CONSTRUCTION ISSUE	COR	COM	08.11.24
P2	SUITABLE FOR TENDER	COR	COM	23.08.24
P1	SUITABLE FOR TENDER	COR	MK	06.08.24
Rev	Description	Dm	Chk	Date



**Campus Number & Name**  
 LON1 LONDON ONE

**Project**  
 LON1X2 LONDON ONE PHASE THREE

**Drawing Title**  
 PROPOSED DRAINAGE LAYOUT SHEET 1 OF 3

**Status Code**  
 A5 - AUTHORISED & ACCEPTED - STAGE 5

**Stage**  
 CONSTRUCTION ISSUE

**Drawing Number**  
 LON1X2-OCS-CZ-ZZ-DR-C-4000

**Rev**  
 C6

**Scale**  
 1 : 500

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