

MANHOLE SCHEDULE

>	МН	МН	SIZE	COVER	COVER	INVERT	DEPTH	
>	REF	TYPE	Ø	TYPE	LEVEL	LEVEL	DEPIN	
	S1	NIC	600Ø	MD	51.600	49.000	2.600	
>	S2	TYPE B	1200Ø	MD	51.600	48.825	2.775	
>	S3	POLY	600Ø	MD	51.600	49.500	2.100	
		CATCHPIT	0000					
>	S4	POLY	600Ø	MD	51.600	49.450	2.050	
>	54	CATCHPIT	6000	טואו	51.600	49.450	2.050	
>	F1	UIC	450Ø	MD	51.600	50.900	0.700	
	C1	TYPE B	1200Ø	MD	51.600	48.800	2.800	
7	C2	TYPE B	1200Ø	HD	51.600	48.600	3.000	

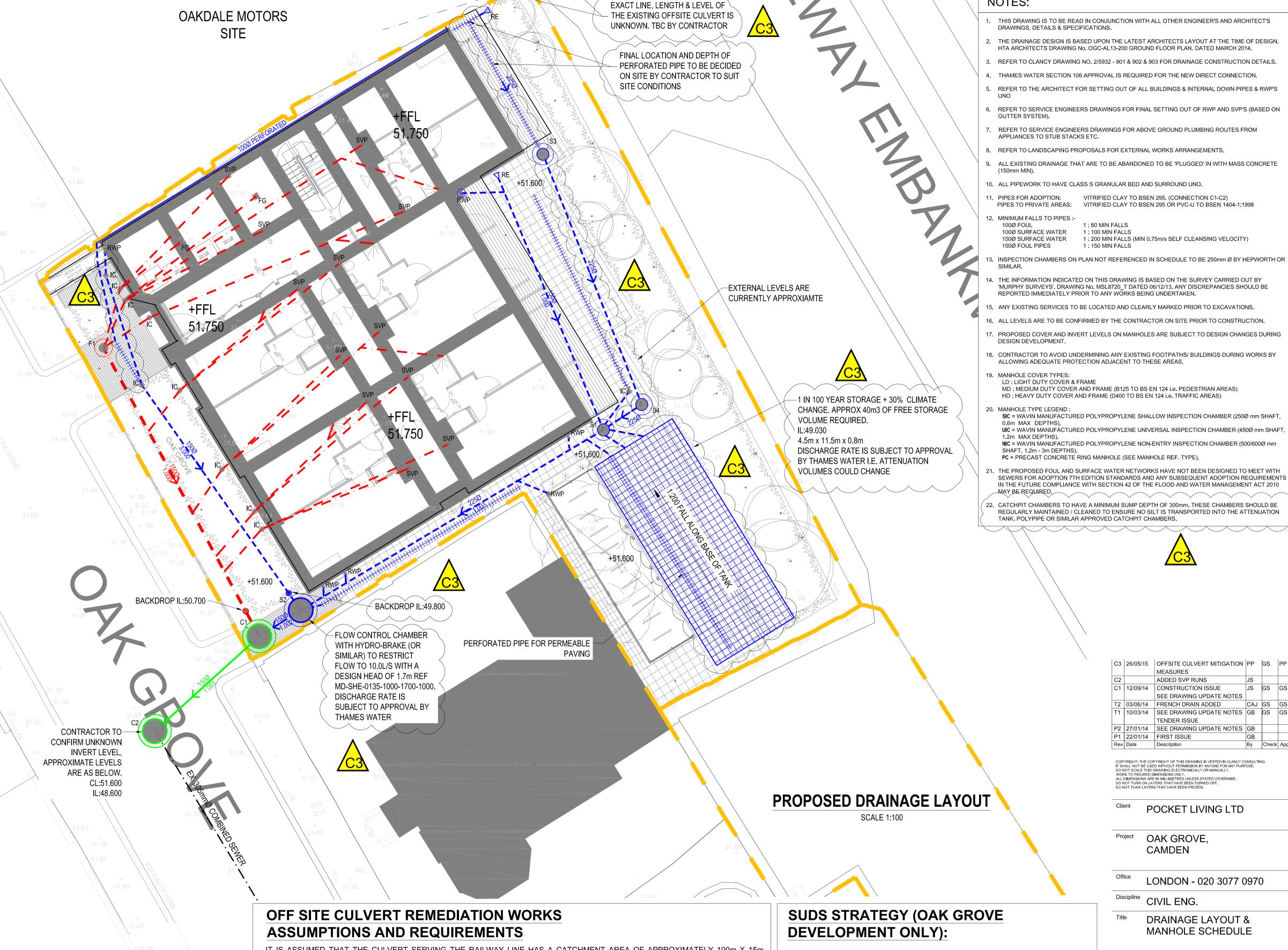
CDMC NOTES:

- REFER TO EXISTING DRAWINGS, SURVEY DRAWINGS AND GROUND PENETRATING RADAR RESULTS BEFORE EXCAVATING TO AVOID HITTING ANY LIVE SERVICES.
- TRENCHES FOR SERVICES, DRAINAGE SOME DEPTHS ARE SHOWN IN EXCESS OF 1.2m DEEP. SUITABLE SUPPORT SYSTEMS TO BE PROVIDED TO PREVENT TRENCHES COLLAPSING.
- POSSIBLE MADE GROUND, POTENTIAL CONTAMINANTS INCLUDE HEAVY METALS, PAHS, SULPHATE, ASBESTOS, GROUND GAS.
- UTILITIES MAY NOT BE SHOWN IN EXACT LOCATIONS SHOWN ON SERVICES PLANS, A GROUND PENETRATING RADAR SURVEY SHOULD BE UNDERTAKEN TO IDENTIFY THE SERVICES PRIOR TO CONSTRUCTION WORKS.
- CONSTRUCTING NEW CONNECTIONS TO EXISTING MANHOLES AND NEW MANHOLES, POTENTIAL FOR HAZARDOUS GASES. PERMIT TO ENTER EXISTING MANHOLES SHOULD BE OBTAINED FROM THAMES WATER BEFORE UNDERTAKING THE WORK. RELEVANT P.P.E SHOULD BE WORN AT ALL TIMES.

DRAWING UPDATE NOTES:

UPDATES FOR REVISION C3:

- SURFACE WATER DRAINAGE SYSTEM REDESIGNED TO ACCOUNT FOR OFFSITE CULVERT SURFACE WATER DISCHARGE ON TO THE OAK GROVE DEVELOPMENT SITE. PLEASE REFER TO OTHER NOTES ON THIS DRAWING FOR DETAILED DESIGN ASSUMPTIONS ETC
- RWP ADJACENT TO THE OAKDALE MOTORS SITE ADDED TO THE DESIGN.
- MANHOLE SCHEDULE UPDATED.
- FLOW CONTROL SPECIFICATION AND FLOW RATE UPDATED.
- ATTENUATION TANK SIZE UPDATED.
- NOTE 22 ADDED.



IT IS ASSUMED THAT THE CULVERT SERVING THE RAILWAY LINE HAS A CATCHMENT AREA OF APPROXIMATELY 100m X 15m (1500m²). THIS CATCHMENT DRAINS VIA LAND DRAINS BENEATH THE RAILWAY PRIOR TO DISCHARGING INTO THE CULVERT. HOWEVER IT HAS BEEN ASSUMED THAT ONLY APPROXIMATELY 1000m2 IS ACTUALLY CONNECTED TO THE CULVERT DUE TO THE LAND DRAINAGE NATURE OF WATER FLOW PATHS AND THE HEAVY SILTATION OF THE CULVERT (AS SHOWN IN THE CCTV SURVEY RECORD PROVIDED TO US REF: AMCO/LNE/059-101). 1000m2 WAS USED IN THE DRAINAGE DESIGN MODEL.

THE CULVERT IS CURRENTLY HEAVILY SILTED AND SHOULD NOT BE CLEANED OUT OR MODIFIED IN ANYWAY. ITS CONDITION IS AS PER THE ALREADY ISSUED CULVERT REPORT. SHOULD THIS CHANGE WE SHOULD BE IMMEDIATELY NOTIFIED AS THIS COUULD AFFECT FLOW RATES AND THE REQUIRED ATTENUATION VOLUMES.

AS THE CULVERT IS EFFECTIVELY DISCHARGING LAND DRAINAGE; ANY NEW DRAINAGE SYSTEM DESIGNED TO CATER FOR THE CULVERT DISCHARGE (WITHIN THE OAK GROVE SITE BOUNDARY) SHOULD BE REGULARLY MAINTAINED BY THE LANDOWNER AND INSPECTED TO PREVENT SILTATION AND BLOCKAGES. THIS WILL HELP TO ENSURE THAT THE DRAINAGE SYSTEM IS WORKING TO ITS DESIGNED OPTIMUM PERFORMANCE AND PREVENT LOCALISED FLOODING WITHIN THE OAK GROVE SITE BOUNDARY.

PLEASE ALSO REFER TO CLANCY FEE PROPOSAL DATED 15/05/15 FOR FURTHER CLARIFICATION ON THIS ISSUE & DESIGN.

THE SURFACE WATER DISCHARGE RATE HAS BEEN RESTRICTED TO A MAXIMUM OF 10L/S TO ACCOUNT FOR THE RUN OFF FROM THE NEW DEVELOPMENT AND THE RUN OFF FROM THE CULVERT. THIS IS TO BE CONFIRMED BY THAMES WATER AND MAY NOT BE ACCEPTED. IF A LOWER DISCHARGE RATE IS REQUIRED THEN THE ATTENUATION VOLUME WILL HAVE TO BE INCREASED.

- THE SURFACE WATER DRAINAGE DESIGN IS BASED UPON THE SITE CURRENTLY BEING GREENFIELD GIVING A MAX FLOW RATE OF 51/s.
- THE PROPOSED STORAGE IS THEN CALCULATED ON THE BASIS OF RETAINING A 1 in 100 YEAR RAINFALL EVENT AND AN ALLOWANCE OF 30% INCREASE FOR CLIMATE CHANGE.
- ATTENUATED STORAGE IS CALCULATED ONLY FOR ROOF & BIKE STORE AREAS
- PERMEABLE PAVING AREAS DESIGNED TO DRAIN THEMSELVES INDEPENDENTLY. STORAGE VOLUME FOR PAVING CALCULATED BY ASSUMING NO PERMEABLE AREAS CAN DRAIN AWAY UNTIL THE ATTENUATED STORAGE HAS COMPLETELY EMPTIED FOR A 30min WINTER STORM AT 5I/s.

TOTAL SITE AREA = 765m² EXISTING IMPERMEABLE AREA = 0m² PROPOSED IMPERMEABLE AREA = 387m² PROPOSED PERMEABLE PAVING = 140m² PROPOSED SOFT LANDSCAPE = 238m²

ATTENUATED STORAGE REQUIRED FOR 1 in 100 YEAR AND CLIMATE CHANGE = 9.6m³ (FOR OAK GROVE DEVELOPMENT SITE ONLY)

C3 26/05/15		OFFSITE CULVERT MITIGATION	PP	GS	PP
		MEASURES			
C2		ADDED SVP RUNS	JS		
C1	12/09/14	CONSTRUCTION ISSUE	JS	GS	GS
		SEE DRAWING UPDATE NOTES			
T2	03/06/14	FRENCH DRAIN ADDED	CAJ	GS	GS
T1	10/03/14	SEE DRAWING UPDATE NOTES	GB	GS	GS
		TENDER ISSUE			
P2	27/01/14	SEE DRAWING UPDATE NOTES	GB		
P1	22/01/14	FIRST ISSUE	GB		
Rev	Date	Description	Ву	Check	Арр.

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POCKET LIVING LTD

OAK GROVE, **CAMDEN**

LONDON - 020 3077 0970

Discipline CIVIL ENG.

DRAINAGE LAYOUT & MANHOLE SCHEDULE

-	Diawii	JS	Date	SEPTEMBER 2014
	Checked	GS	Scale @ A1	1:100
	Approved	GS	Status	CONSTRUCTION



Drawing numbe

2/5932

900

C3