

KEY:

- Site Boundary
- ECMWF Demise
- Proposed Surface Water Drainage
- Proposed Foul Water Drainage
- Proposed Grey Water Drainage
- Existing Surface Water Drainage (not all shown)
- Existing Combined Water Drainage (not all shown)
- Proposed Surface Water Attenuation Storage
- Proposed Combined RWH and Attenuation System (to be confirmed)
- Proposed Permeable Pavement
- Proposed Raingarden
- Tree Root Cells
- Drainage channel (see layout for type) with SUMP unit
- Facade Hidden Slot Channel with SUMP unit
- Permeable Pavement Impermeable Liner
- Proposed Road Gully
- Proposed Grease Trap
- Proposed Floor Gully
- Proposed Shower Gully
- Proposed Rodding Eye

Existing Utility Legend

SURFACE WATER DRAIN  
FOUL WATER DRAIN  
COMBINED DRAIN

Abbreviations

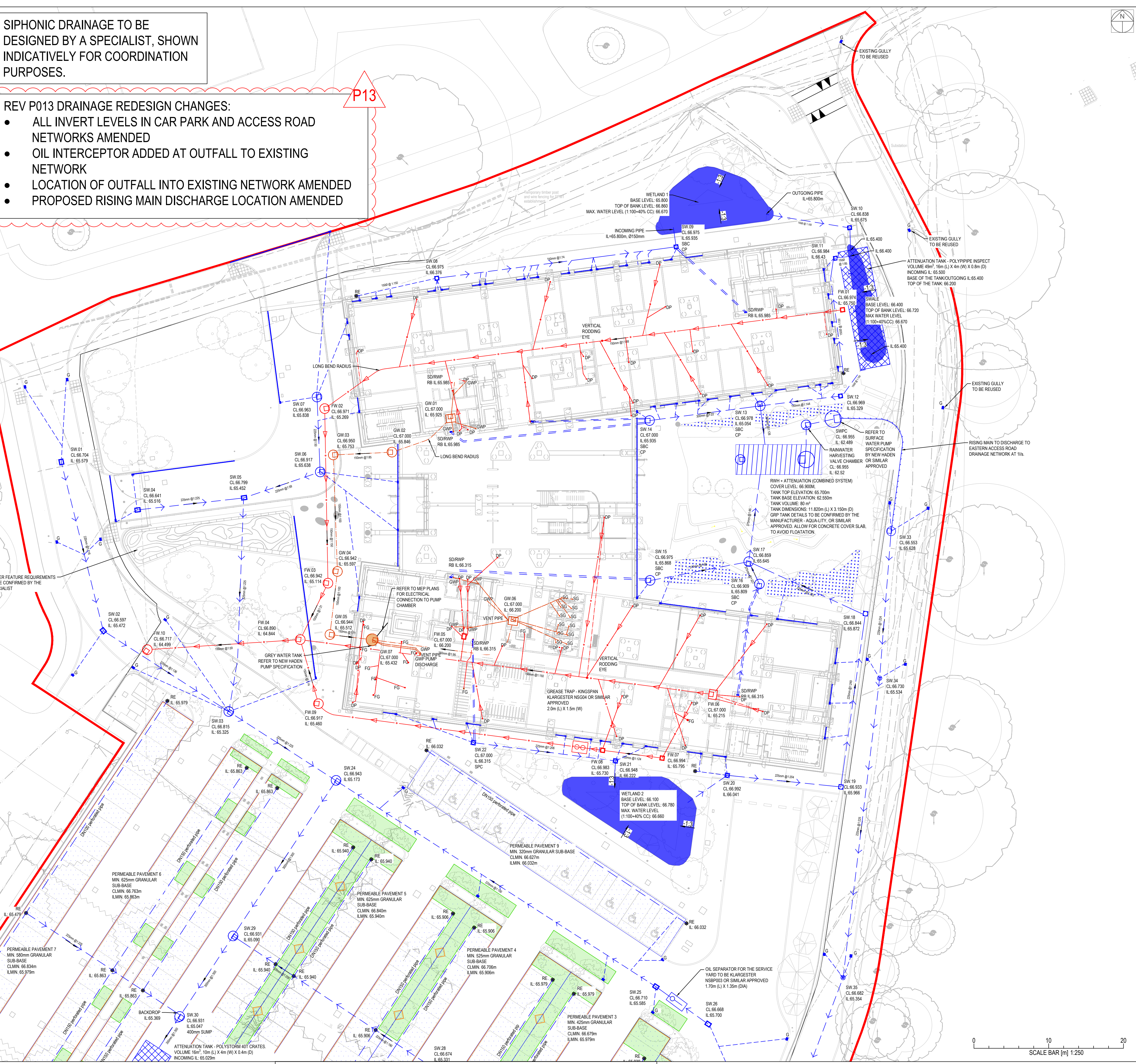
CS CONDENSATE PIPE  
SS STUB STACK  
DP FOUL WATER DRAIN POINT  
SDRWP SIPHONIC DRAIN POINT  
RE RODDING EYE  
GWP GREY WATER POINT  
SWPC SURFACE WATER PUMP CHAMBER  
GWPC GRAY WATER PUMP CHAMBER  
SBC SIPHONIC BREAK CHAMBER

SIPHONIC DRAINAGE TO BE DESIGNED BY A SPECIALIST, SHOWN INDICATIVELY FOR COORDINATION PURPOSES.

REV P013 DRAINAGE REDESIGN CHANGES:

- ALL INVERT LEVELS IN CAR PARK AND ACCESS ROAD NETWORKS AMENDED
- OIL INTERCEPTOR ADDED AT OUTFALL TO EXISTING NETWORK
- LOCATION OF OUTFALL INTO EXISTING NETWORK AMENDED
- PROPOSED RISING MAIN DISCHARGE LOCATION AMENDED

P13



BUILDING DESIGN PARTNERSHIP SHALL HAVE NO RESPONSIBILITY FOR ANY USE MADE OF THIS DOCUMENT OTHER THAN FOR THAT WHICH IT WAS PREPARED AND ISSUED.

ALL DIMENSIONS SHOULD BE CHECKED ON SITE.

DO NOT SCALE FROM THIS DRAWING

ANY DRAWING ERRORS OR DIVERGENCIES SHOULD BE BROUGHT TO THE ATTENTION OF BUILDING DESIGN PARTNERSHIP AT THE ADDRESS SHOWN BELOW.

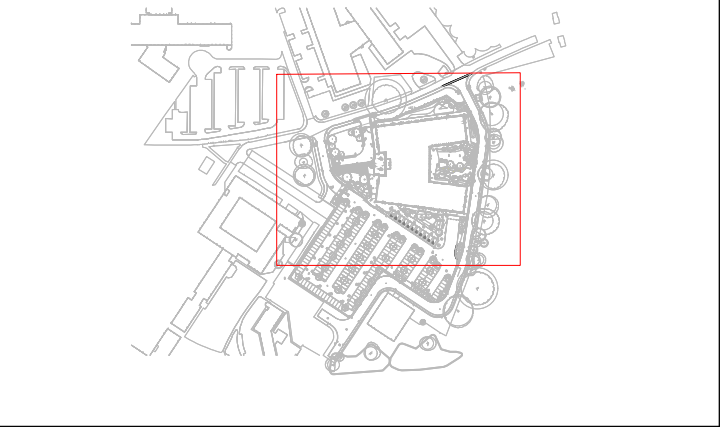
DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE FOLLOWING BEFORE WORK COMMENCES:

- THE CDM DESIGN ISSUES REGISTER
- THE BDP RISK SERIES OF DRAWINGS
- THE PROJECT CDM RISK REGISTER

NOTES

- DRAINAGE STRATEGY IS SUBJECT TO APPROVAL BY THE ENVIRONMENT AGENCY, LEAD LOCAL FLOOD AUTHORITY (LLFA) AND THAMES WATER
- THIS DRAWING IS BASED ON:
  - TOPOGRAPHICAL AND UTILITIES SURVEY BY 1ST HORIZON FG-UR5699 DRAWING SERIES DATED 27.09.2023
  - WHERE FURTHER LEVELS DATA IS REQUIRED, LEAD DATA HAS BEEN USED AND THIS IS ANNOTATED ON THE PLAN.
  - LANDSCAPE SITE PLAN DATED 13.09.2024
  - ARCHITECTURAL FLOOR LAYOUT DATED 03.05.2024
  - PUBLIC HEALTH ENGINEER LAYOUT DATED 03.05.2024
  - STRUCTURAL FOUNDATIONS LAYOUT DATED 03.05.2024
- DRAINAGE CHANNELS: DRAINAGE CHANNELS WITHIN THE ROADS TO BE HEAVY DUTY LOADING CLASS (D400 BUT £600 FOR SERVICE YARD), ACC OR SIMILAR APPROVED. ALLOW FOR HIDDEN SLOT DRAINAGE CHANNEL FOR THE BUILDING PERIMETER AND AROUND THE MAIN ENTRANCE. SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT / ARCHITECT. ALL CHANNEL DRAINS TO BE ACC M1000 10.0 UNLESS STATED OTHERWISE.
- A PERMEABLE SPECIALIST GEOTEXTILE PRODUCT SUCH AS INBITEXTM OR PERMAFILTER OR SIMILAR APPROVED TO BE INCORPORATED INTO PERMEABLE PAVING TO IMPROVE WATER QUALITY FOR THE ROADS AND CAR PARK AREAS.
- TOTAL SURFACE WATER PEAK DISCHARGE RATE PROPOSED IS 7.2 L/S, SUBJECT TO APPROVAL. PROPOSED SURFACE WATER DESIGNED TO ACCOMMODATE 1 IN 100 CRITICAL STORM EVENT WITH 40% CLIMATE CHANGE ALLOWANCE.
- PEAK FOUL WATER DISCHARGE RATE OF 7.3 L/S APPROVED BY THAMES WATER, S106 STILL REQUIRED.
- REFER TO THE ARCHITECTS PLANS FOR FOUL WATER POINT AND RAINWATER PIPE SETTING OUT INFORMATION.
- REFER TO THE LANDSCAPE ARCHITECT PLANS FOR SETTING OUT OF ROADS AND DRAINAGE FEATURES.
- KITCHEN SPECIALIST PLANS REQUIRED FOR COORDINATION.
- ALL DRAINAGE IS UPVC UNLESS OTHERWISE SPECIFIED. ALL SURFACE WATER DRAINS ARE 150mm DIAMETER AND ALL FOUL WATER DRAINS ARE 100mm DIAMETER UNLESS OTHERWISE SPECIFIED.
- FOR EXISTING SERVICES DRAWING REFER TO 1ST HORIZON DRAWINGS FG-UR5699-01 TO 06, DATED 27.09.19.
- SIPHONIC DRAINAGE TO BE DETAILLED AND DESIGNED BY A SPECIALIST. RAINWATER PIPES AND ASSOCIATED DRAINAGE IS SHOWN INDICATIVELY FOR COORDINATION PURPOSES ONLY.
- ALL COVERS TO BE RECESSED IN PAVED AREAS, ORIENTATED TO PAVING.
- FOR DRAINAGE SCHEDULES REFER TO DRAWINGS ECMWF-BDP-ZZ-ZZ-DR-C-000104 & 000105.
- ALL FOUL WATER AND GREY WATER DRAIN POINTS TO HAVE ABOVE GROUND RODDING ACCESS.
- EXISTING ABANDONED WITHIN THE BUILDING FOOTPRINT AND ABANDONED IN EXTERNAL AREAS.
- REFER TO LANDSCAPE TYPICAL DETAILS FOR FURTHER INFO ON INTERFACE BETWEEN TREE PITS AND PERMEABLE PAVING BAYS.

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|-----------------------------------------------------|----------------|
| P13 - S4 DRAINAGE REDESIGN ISSUE                    | JD LJ 15/10/24 |
| P12 - S4 SECURITY CHANGE ISSUE                      | JD LJ 13/09/24 |
| P11 - UPDATED FROM TA COMMENTS                      | GM JT 09/09/24 |
| P10 - FOR PLANNING                                  | GM LJ 07/08/24 |
| P09 - FOR PLANNING                                  | GM SR 26/07/24 |
| P08 - STAGE 4 REDESIGN                              | GM SR 27/06/24 |
| P07 - STAGE 4 FINAL/INTERNAL DRAINAGE - COORDINATED | GM JT 03/06/24 |
| P06 - STAGE 4 FINAL                                 | GM SR 10/05/24 |
| P05 - FINAL STAGE 4 ISSUE                           | GM SR 20/03/24 |
| P04 - STAGE 4 FOR COSTING                           | GM SR 16/02/24 |
| P03 - STAGE 3 ISSUE                                 | TP TK 20/10/23 |
| P02 - WIP FOR COSTING                               | AF GM 09/10/23 |
| P01 - WIP FOR COSTING                               | TP TK 29/09/23 |



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BDP JOB NUMBER  
**P3002898**

DRAWING TITLE  
**BELOW GROUND DRAINAGE LAYOUT SHEET 1 of 2**

DRAWING SUBMITTAL  
**S(4)**

SCALE  
**1:250**

DATE PREP FORWARDED  
**09/29/23**

REVISION NO.  
**P13**

ECMWF-BDP-ZZ-ZZ-DR-C-000102