

0 1 2 3 4 5 10 15m

LEGEND

- EXISTING MANHOLE
- ExG – EXISTING GULLY
- EXISTING DRAINAGE AS TAKEN FROM RSK GRP UTILITY SURVEY
- S1 – PROPOSED SURFACE WATER MANHOLE
- F1 – PROPOSED FOUL WATER MANHOLE
- FG – PROPOSED FLOOR GULLY CONNECTED TO FOUL DRAINAGE SYSTEM
- G – PROPOSED GULLY CONNECTED TO SURFACE WATER SYSTEM
- YG – PROPOSED YARD GULLY CONNECTED TO SURFACE WATER SYSTEM
- SAC – PROPOSED SURFACE WATER ACCESS CHAMBER (250mm DIA)
- FAC – PROPOSED FOUL WATER ACCESS CHAMBER (250mm DIA)
- SIC – PROPOSED SURFACE WATER INSPECTION CHAMBER (450\600mm DIA)
- FIC – PROPOSED FOUL WATER INSPECTION CHAMBER (450mm DIA)
- DENOTES BELOW GROUND SURFACE WATER DRAINAGE 100ø @1:100 UNO
- DENOTES BELOW GROUND FOUL DRAINAGE 100ø @ 1:80 UNO
- DENOTES POROUS PAVING
- DENOTES ATTENUATION TANK
- ACO – PROPOSED DRAINAGE CHANNEL
- DC – PROPOSED DISHED CHANNEL
- RE – DENOTES RODDING EYE
- RWP – DENOTES VERTICAL RAIN WATER STACK TO GROUND
- DT – DENOTES DISTRIBUTION TANK INTO STORAGE SUB-BASE STONE.
- SVP SS AAV – DENOTES VERTICAL FOUL STACK TO GROUND
- DENOTES FRENCH DRAIN
- DENOTES THRESHOLD DRAIN, TO BE CONFIRMED
- DENOTES AREA AND DEPTH OF PONDING DURING 1IN100 YR + CC EVENT
- DENOTES SW OVERLAND FLOOD FLOW \ DESIGN EXCEEDENCE ROUTE

NOTES

1. THIS DRAWING IS COPYRIGHT.
2. THE CONTRACTOR AND HIS SUBCONTRACTOR ARE TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO MAKING SHOP DRAWINGS OR COMMENCING MANUFACTURE.
3. THE CONTRACTOR IS TO BRING TO THE NOTICE OF THE ENGINEER ANY DISCREPANCIES CONTAINED IN THIS DRAWING PRIOR TO WORK COMMENCEMENT.
4. ALL PIPE MATERIALS TO BE CONSISTENT BETWEEN MANHOLES.
5. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION GUIDE (DCG) APPENDIX OF THE SEWERAGE SECTOR GUIDNANCE, AND THE RELEVANT WESSEX WATER ADDENDUMS AND POLICIES, CURRENT AT THE TIME OF CONSTRUCTION.
6. FOR CONSTRUCTION DETAILS OF MANHOLES AND SEWERS REFER TO THE DCG AND THE APPROVED DETAILS.
7. INVERT LEVELS OF EXISTING SEWERS TO BE CONFIRMED ON SITE BEFORE ANY SEWER WORK UNDERTAKEN. ANY DISCREPANCIES FOUND SHOULD BE NOTIFIED TO ENGINEERS.
8. WHERE SEWERS HAVE LESS THAN 1.2m OF COVER UNDER ROADS AND 0.9m COVER ELSEWHERE PIPES ARE TO HAVE CLASS Z BEDDING OR A 150mm PROTECTIVE CONCRETE SLAB ABOVE.
9. PLASTIC CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598–1 AND BS EN 13598–2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL, TO TABLE 11 OF APPROVED DOCUMENT H1 OF THE BUILDING REGULATIONS 2010.
10. ORIENTATION OF ALL ACCESS AND INSPECTION CHAMBERS TO BE IN ACCORDANCE WITH NHBC TECHNICAL GUIDANCE 5.3/01
11. WHERE HOUSE DRAINAGE IS TAKEN THROUGH BLOCK CARE IS TO BE TAKEN THAT FOUNDATION LEVELS AND DRAINAGE RUNS DO NOT CLASH.
12. ALL ADOPTABLE MANHOLES TO HAVE A MINIMUM CLEAR OPENING OF 600mmx600mm AND GRADE D400 UNO.
13. ALL BELOW GROUND DRAINAGE TO BE 100mmø UNLESS OTHERWISE INDICATED WITH A MIN. GRADIENT AS FOLLOWS:–

    S.W : 100mm Dia. 1:100
    S.W : 150mm Dia. 1:150
    F.W : 100mm Dia. 1:80
    F.W : 150mm Dia. 1:150
14. ALL ADOPTABLE DRAINAGE MATERIALS SHOULD COMPLY WITH THE REQUIREMENTS OF PART E CIVIL ENGINEERING SPECIFICATION INCLUDED WITH DCG.

NOTE ON SW DRAINAGE DESIGN

THIS DRAINAGE DESIGN IS BASED ON THE SURFACE WATER DRAINAGE STRATEGY AS SHOWN ON PLAN 10292/1061 P7 (PREPARED BY GTA CIVILS LTD) AND AS SUBMITTED AND APPROVED UNDER THE PLANNING CONSENT AWDM/1450/21, THE STRATEGY STATES THAT OFF SITE SW DISCHARGE RATES ARE TO BE RESTRICTED TO 2.0l/s AND THAT BELOW GROUND ATTENUATION IS TO BE PROVIDED BY CELLULAR STORAGE, SURFACE WATER RUNOFF IS TO BE TREATED BY PERMEABLE PAVING IN THE CAR PARK LOCATED BEHIND BLOCK A ONLY, NO OTHER TREATMENT IS REQUIRED FOR RUNOFF FROM HARD PAVED AREAS.

THE SIMPLE POLLUTION INDICES METHOD AS SET OUT IN CHAPTER 26 OF THE CIRIA SUDS MANUAL C753 HAS BEEN APPLIED TO DEMONSTRATE THAT PERMEABLE PAVING IS SUITABLE TO TREAT RUNOFF FROM PARKING AREAS.

TABLE 26.2 GIVES THE INDICES FOR A RESIDENTIAL CAR, WITH LOW TRAFFIC ROADS ETC, AS 0.5 FOR SUSPENDED SOLIDS, 0.4 FOR METALS AND 0.4 FOR HYDROCARBONS, THE OVERALL POLLUTION HAZARD LEVEL IS LOW.

TABLE 26.3 GIVES THE MITIGATION INDICES FOR PERMEABLE PAVING AS 0.7 FOR SUSPENDED SOLIDS, 0.6 FOR METALS AND 0.7 FOR HYDROCARBONS, IT CAN THEREFORE BE SEEN THAT THE MITIGATION INDICES EXCEED THE POLLUTION HAZARD INDICES AND THAT AN APPROPRIATE LEVEL OF TREATMENT WILL BE PROVIDED.

IT SHOULD BE NOTED THAT RUNOFF FROM OTHER HARD PAVED AREAS WILL BE DRAINED TO TRAPPED GULLIES AND LINEAR DRAINAGE CHANNELS.

HEALTH & SAFETY:

ALL WORKS TO BE CARRIED OUT BY A CONTRACTOR COMPETENT TO UNDERTAKE THE CONSTRUCTION OF WORKS AS INDICATED ON THIS DRAWING. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE JOB SPECIFIC RISK ASSESSMENT. THE HAZARDS NOTED ARE IN ADDITION TO THE NORMAL HAZARDS AND RISKS FACED BY A COMPETENT CONTRACTOR WHEN DEALING WITH THE TYPE OF WORKS DETAILED ON THIS DRAWING.

TENDER

rev	date	description	initials
T3	06/12/23	DRAINAGE STRATEGY NOTE ADDED, DESIGN EXCEEDENCE FLOW PATHS AREAS \ VOLUMES OF PONDING ADDED, AS PER LLFA REQUIREMENTS	AJV
T2	29/11/23	SITE / BUILDING LAYOUTS UPDATED TO ARCHITECTS DRAWING 22.087-HGP-XX-00-D-A-1100-P2. CRANE BASE RELOCATED. DRAINAGE AMENDED TO SUIT.	AJV
T1	17/10/23	SITE / BUILDING LAYOUTS UPDATED TO ARCHITECTS DRAWINGS RECEIVED 09/10/2023. DRAINAGE AMENDED TO SUIT. STATUS UPDATED.	AJV
P1	04/10/23	PRELIMINARY ISSUE	MD

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