PACKAGED PUMPING STATION

SURFACE WATER PUMPING STATION WITH DIUAL DUTY AND STANDBY VORTEX IMPELLER PUMPS WITH ALARMS ALARMS, TELEMETRY AND NON-RETURN VALVES

CL: 74.49
INLET IL: 72.75
PEAK DISCHARGE RATE: 2.92 L/S

PERMEABLE CAR PARKING BAYS

PERMEABLE BLOCK PAVERS INSTALLED ON A POROUS SUB-BASE (4/20 GRANULAR MATERIAL), WRAPPED IN A PERMEABLE GEO-TEXTILE. SURFACE WATER PROPOSED TO DISCHARGE TO GROUND.

SURFACE WATER FROM ADJACENET ASPHALT CARRIAGEWAY TO DRAIN ON TO PERMEABLE PAVING.

INFILTRATION TESTING AND GROUNDWATER MONITORING REQUIRED TO CONFIRM DESIGN PARAMETERS.

PROPOSED OUTFALL TO EXISTING SURFACE WATER DRAINAGE DITCH
IL: 73.90
PEAK DISCHARGE RATE: 2.92 L/S

APPROVAL FOR DISCHARGE TO THE DITCH IS TO BE CONFIRMED PRIOR TO CONNECTION.

2NO. RAIN GARDENS

RAIN GARDEN WITH FREEBOARD INSTALLED ON SUITABLE TOPSOIL / TREE PIT BACKFILL AND A COARSE GRADED AGGREGATE RESERVOIR, WRAPPED IN A PERMEABLE GEO-TEXTILE. SURFACE WATER PROPOSED TO DISCHARGE TO GROUND.

SURFACE WATER FROM ADJACENET FOOTWAY AND RAMP TO DRAIN INTO RAIN GARDENS.

INFILTRATION TESTING AND GROUNDWATER MONITORING REQUIRED TO CONFIRM DESIGN PARAMETERS.

SURFACE WATER CONNECTION FROM SPORTS HALL DRAINAGE NETWORK (REF242130)

PROPOSED BLUE ROOF ATTENUATION

ALL ROOF CATCHMENTS TO BE ATTENUATED WITHIN BLUE ROOF SYSTEM AND DISCHARGED AT A RESTRICTED RATE TO THE BELOW GROUND DRAINAGE NETWORK VIA RESTRICTED ROOF OUTLET AND RWP'S.

TOTAL PEAK DISCHARGE RATE FROM BLUE ROOF AREAS = 2.92 L/S

PERMEABLE FOOTWAY

PERMEABLE BLOCK PAVERS INSTALLED ON A POROUS SUB-BASE (4/20 GRANULAR MATERIAL), WRAPPED IN A PERMEABLE GEO-TEXTILE. SURFACE WATER PROPOSED TO DISCHARGE TO GROUND.

INFILTRATION TESTING AND GROUNDWATER MONITORING REQUIRED TO CONFIRM DESIGN PARAMETERS.

FILTER STRIP

SURFACE WATER FROM NEW ACCESS ROAD TO DRAIN INTO ADJACENT FILTER STRIP AND DISCHARGE TO GROUND

INFILTRATION TESTING AND GROUNDWATER MONITORING REQUIRED TO CONFIRM DESIGN PARAMETERS.

SURFACE WATER FROM FOOTWAYS TO DRAIN ON TO ADJACENT SOFT LANDSCAPING, AS PER THE EXISTING SITE

EXISTING SURFACE WATER DISCHARGE POINT TBC ASAP

EXISTING SURFACE WATER DISCHARGE POINT TBC ASAP

MH1 CL: 74.49 IL: 73.80
MH2 CL: 74.49 IL: 73.60
MH3 CL: 74.49 IL: 73.40
MH4 CL: 74.49 IL: 73.10
MH5 CL: 74.49 IL: 72.80
MH6 CL: 74.60 IL: 74.00

EX MHA CL: 74.74 IL: 73.17
EX MHB CL: 74.41 IL: 72.94
EX MHC CL: 73.34 IL: 72.33
EX MHD CL: 73.16 IL: 71.80
EX MHE CL: 72.77 IL: 71.47
EX MHF CL: 72.56 IL: 70.95
EX MHG

EX SOAKAWAY 1
EX SOAKAWAY 2
EX SOAKAWAY 3
EX SOAKAWAY 4

RWP
250 DIA
225 DIA @ 1:100
150 DIA @ 1:100
100 DIA
100 DIA OVERFLOW
OVERFLOW

BLAKE HOUSE
DRAKE HOUSE
CADET
Existing Parent House
Existing Playground

New Parking bays 18nr standard bays (5m x 2.4m) 1nr. Blue Badge bay
Realigned Road
Existing Road downgraded to path
Living Willow Tunnel Indicatively shown. To be delivered at future phase
Visitor Cycle Parking (4 spaces)
Footprint of existing building that will be demolished. Opportunity to re-purpose the footprint as a recreational area e.g. Petanque
New external kitchen area and social space
New social space for existing Drake House. Design to be confirmed
Visitor Cycle Parking
Existing Leylandii trees to be removed
New Road to provide access to Cadet Building
New Graded route (less than 1:20 gradient) to New Boarding House
New Steps
Canopy at 1st Floor Level
New Radial Seating bench 20m long
Reconfigured path network
Parent House Garden

This drawing is to be read in conjunction with all relevant Architects, Engineers and Specialists Drawings and Specifications.

Do not scale from this drawing.

NOTES

1. DRAWING BASED ON BD LANDSCAPE ARCHITECTS 'LANDSCAPE AREAS PLAN' 0363-BDL-XX-XX-DR-L-0002-P06.

2. EXISTING DRAINAGE SHOWN BASED ON TOWER SURVEYS TOPOGRAPHICAL SURVEY DATED OCTOBER 2014.

3. BELOW GROUND DRAINAGE SIZED TO ACCOMODATE OVERFLOW DISCHARGE RATES FROM ROOF CATCHMENTS

LEGEND

- EXISTING SURFACE WATER DRAINAGE
- PROPOSED SURFACE WATER DRAINAGE
- PROPOSED SURFACE WATER PUMPING STATION
- PROPOSED SURFACE WATER RISING MAIN
- RWP - INDICATIVE LOCATION
- CHANNEL DRAIN
- THRESHOLD DRAIN WITH BRICKSLOT UPSTAND
- PERMEABLE PAVING WITH POROUS SUB-BASE (UNLINED)
- FILTER DRAIN (UNLINED)
- RAIN GARDEN (UNLINED)
- CURRENT RED LINE BOUNDARY

| Rev | Date | By | Chk | Description |
|---|---|---|---|---|
| P3 | 19/12/24 | MTr | KTr | Issued for planning |
| P2 | 17/12/24 | MTr | KTr | Issued for planning (Draft) |
| P1 | 13/12/24 | MTr | KTr | Preliminary Issue |


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**Project**
New Reddam Boarding

**Drawing Title**
Proposed Drainage Layout

| Scale | EWP Project | Date | Drawn |
|---|---|---|---|
| 1:250@ A1 | 2240251 | Dec 2024 | MTr |

| Design Phase | Status | Revision |
|---|---|---|
| Preliminary | S2 | P3 |

[Project]-[Origin]-[Function]-[Spatial]-[Form]-[Discipline]-[No.]
2240251-EWP - ZZ - 00 - SK - C - 00001