

- Legend**
- Site Boundary
 - Existing Storm Sewer
 - Existing Foul Sewer
 - Existing Combined Sewer
 - Proposed Bioretention
 - Proposed Storm Drainage
 - X Proposed Flow Control
 - Proposed In-Built Fall Grated Channel
 - Proposed Detention Basin
 - Proposed Porous Paving
 - Proposed Foul Drainage

- Notes**
1. Do not scale from this drawing.
 2. The details shown on this drawing are based on a RIBA Stage 3 design produced for MIMWEP Stage 2. The details will need to be reviewed and revised during subsequent design stages.
 3. The topographic survey detail shown on this drawing is based on a survey carried out by 'Technics Group' in September 2019. No responsibility can be taken for the accuracy of this survey.
 4. All levels are shown above ordnance datum (mAOD)
 5. Storm drainage proposals to be agreed with RCT SAB officer including form and location of treatment/attenuation and the outfalling discharge rate.
 6. Attenuation sizes are based on attenuating all return periods up to 1:100 to the 1:1 year discharge rate. The area and volume of attenuation required is subject to agreement with the SAB and DCWW.
 7. Manhole and pipe sizes/locations to be confirmed in subsequent design stages.
 8. Awaiting soakaway test results to determine if a soakaway solution is acceptable. Further Ground Investigation works may be required.
 9. Foul and storm drainage provision to be retained for the operational school buildings during construction.
 10. Continued coordination with the landscape architect required through the subsequent design stages.
 11. Location of rainwater downpipes to be confirmed at future design stages and drainage design to be updated. Locations of bioretention features are indicative and liable to change as a result. Location of attenuation, rain gardens and pipe routes to be coordinated through future design stages.

Pervious paving to provide additional attenuation for car park flows.

In-built fall slot drain with sump at the low point

Building internal layout not shown for clarity. Locations of internal foul drainage to be confirmed and coordinated further at future design stages.

Approx. 70m² of bioretention features around building perimeter to treat stormwater flows from roofs prior to outfall to drainage network. Location of bioretention to be reviewed to avoid building entrances and other perimeter features.

Outline of attenuation earthworks required to attenuate flows to the existing 1-year rate prior to discharge to watercourse. 280m³ attenuation provided to attenuate 0.595ha flows. Size to be refined in next Stage

Surface water network proposed to outfall to Nant yr Afan offsite. Discharge rate to be agreed with the SAB.

Potential to outfall the storm drainage using the existing site outfall. Additional survey requested to confirm location and invert levels of headwall and the pipework to it

Existing surface water pipe to be diverted. Route to be confirmed in subsequent design stages.

Indicative diversion route

Proposed to form new off-site foul drainage route to connect to existing combined sewer in Llanilltud Faerdre Sports Club access road. To be confirmed by DCWW.

Indicative pipe route to Llanilltud Faerdre Sports Club connection pipe

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|-------------------------|----------|----|------|------|
| P02 | 24/09/21 | RL | JN | IA |
| Issued for RIBA Stage 3 | | | | |
| P01 | 24/05/21 | DS | JN | IA |
| Issued for Information | | | | |
| Issue | Date | By | Chkd | Appd |

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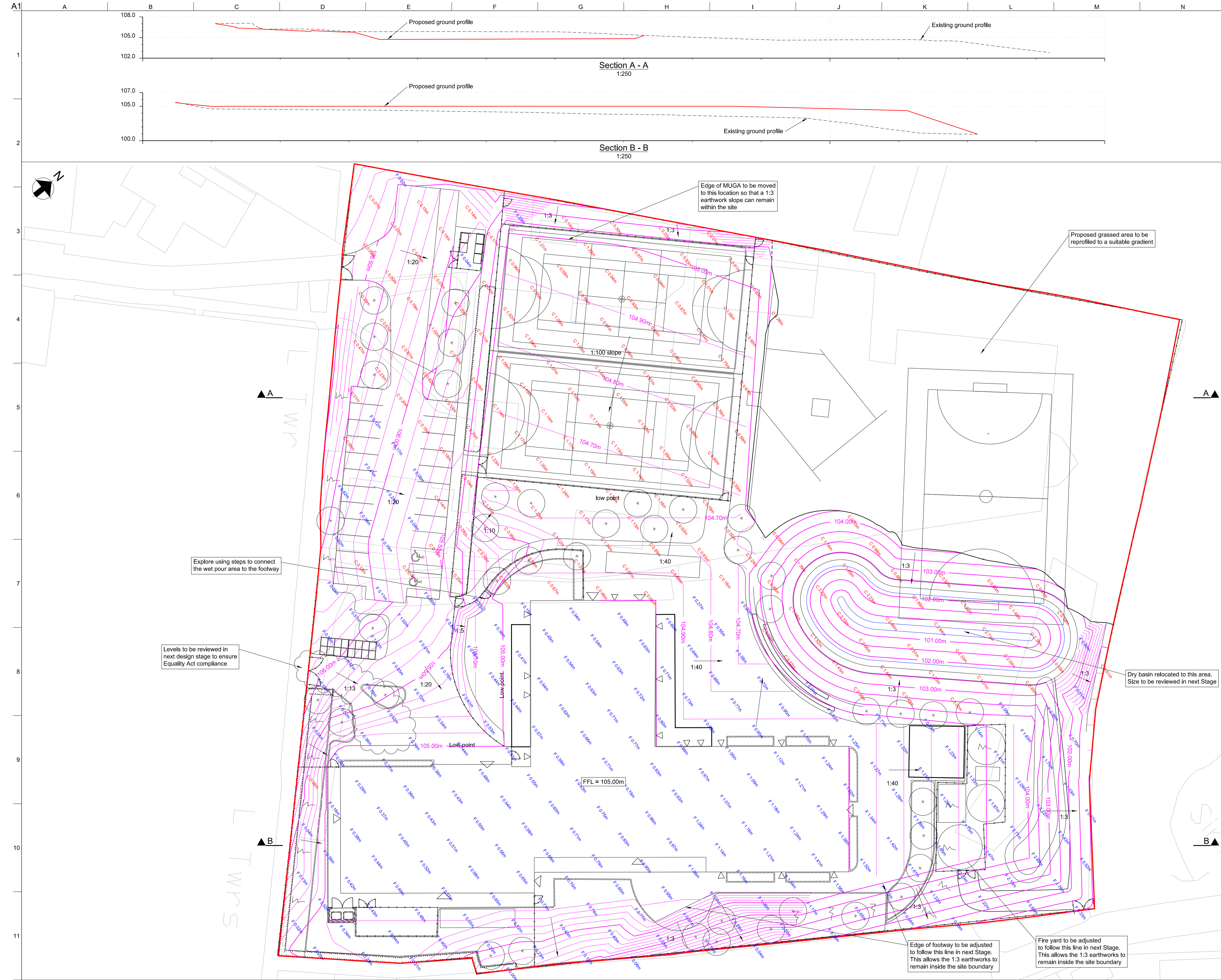
4 Pierhead St, Capital Waterside
Cardiff, CF10 4GP
T +44(0)29 20473727 F +44(0)29 20472277
www.arup.com

Client
MIMWEP
Rhondda Cynon Taf County Council

Project Title
RCT Batch Primary

Drawing Title
**Llanilltud Faerdref
Proposed Drainage**

Scale at A1 1:250 Role Civils
Suitability S3- Suitable for Review and Comment
Job No **281143** Rev **P02**
Drawing No **RH0301-ARP-ZZ-00-DR-C-00041**



Legend

| | |
|--|------------------|
| | Site Boundary |
| | Proposed Contour |
| | Depth of Cut |
| | Depth of Fill |

Notes

1. Cut and fill depths shown are based on the difference between the proposed finished levels and the existing ground level.
2. All levels at the site boundary are retained at existing level.

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|-------------------------|----------|----|------|------|
| P02 | 24/09/21 | CB | JN | IA |
| Issued for RIBA Stage 3 | | | | |
| P01 | 24/05/21 | DS | JN | IA |
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4 Pierhead St, Capital Waterside
Cardiff, CF10 4GP
T +44(0)29 20473727 F +44(0)29 20472277
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Client
MIMWEP
Rhondda Cynon Taf County Council

Project Title
RCT Batch Primary

Drawing Title
Llanilltud Faerdref
External Finished Levels

| | | | |
|-------------|-------------------------------------|------|------------|
| Scale at A1 | 1:250 | Role | Civils |
| Suitability | S3- Suitable for Review and Comment | | |
| Job No | 281143 | Rev | P02 |
| Drawing No | RH0301-ARP-ZZ-00-DR-C-00031 | | |



Legend

- Site Boundary
- Storm Sewer
- Foul Sewer
- Combined Sewer
- Gas
- Water
- Telecoms
- Electric
- - - Electric (Overhead)
- Unknown

- Notes**
1. The positions of services and plant shown on this drawing are indicative only and reflect the level of information obtained from a survey carried out by 'Technics Group' in August 2019. No guarantee is given for the accuracy of this information and it is intended for general guidance only.
 2. Services may exist at various depths and their routes may deviate within the vicinity of the routes shown. The information must not be relied upon for excavation or other works. The onus of locating the services before using mechanical excavator or other plant, rests entirely upon the contractor.
 3. Where utilities are indicated there may be multiple cables present.
 4. Other utilities may be present underground that are not shown on this drawing. Before any works are undertaken, the contractor is to ensure they are satisfied that the works area is utility free or that any identified utility can be managed safely.
 5. Contractor should review all factual information related to utilities, liaise with statutory authorities and undertake further checks and surveys to ascertain location and depth of utilities prior to undertaking intrusive, construction or diversion works.
 6. Utility location and depth should be read at the appropriate accuracy in accordance with PAS128.
 7. Refer to MEP drawings for the utility strategy and how the services are to be removed and at what stage of the project.
 8. The existing drainage of the school site will need to be accommodated during construction.

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|-------------------------|----------|----|------|------|
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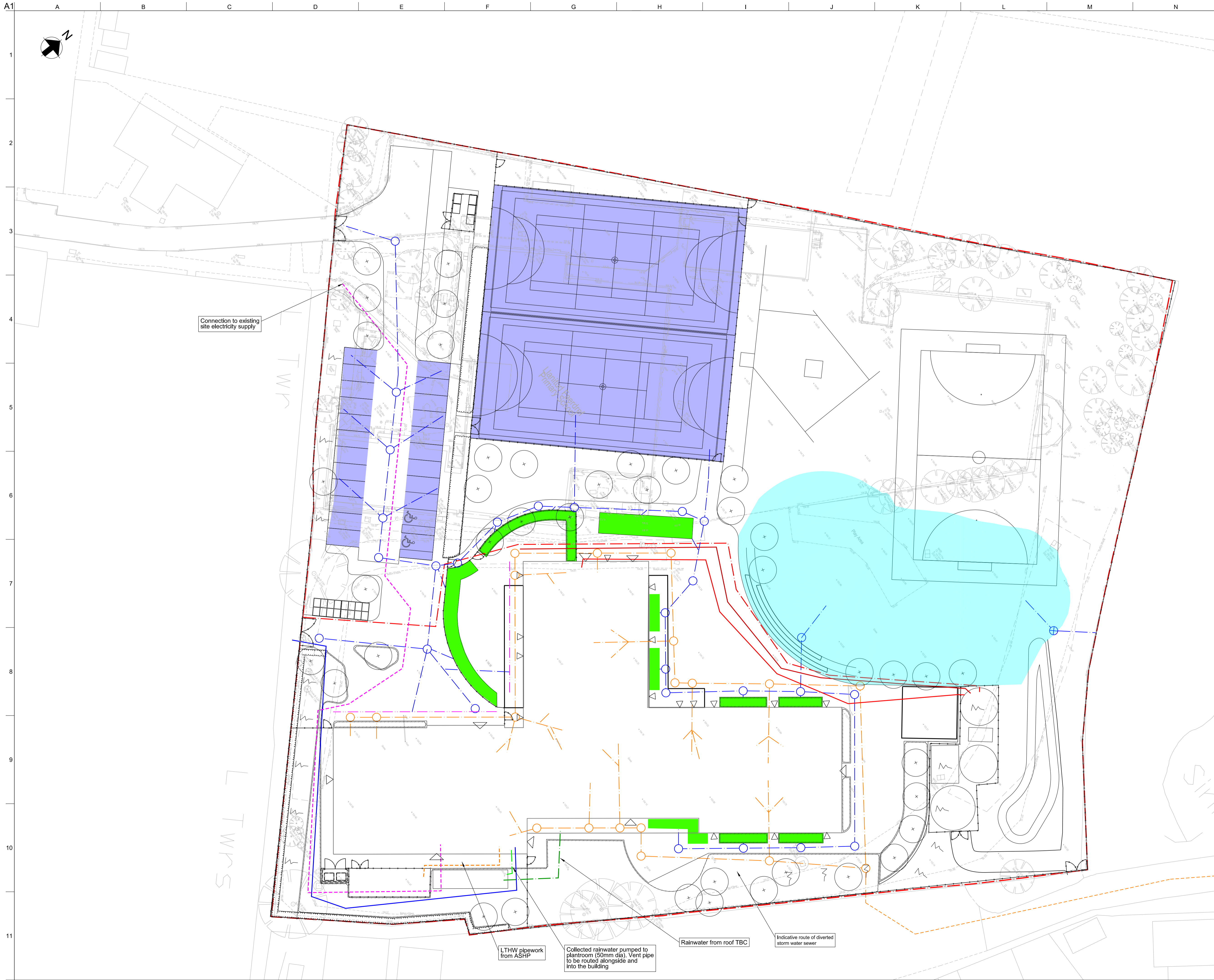
4 Pierhead St, Capital Waterside
Cardiff, CF10 4GP
T +44(0)29 20473272 F +44(0)29 20472277
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Client
MIMWEP
Rhondda Cynon Taf County Council

Project Title
RCT Batch Primary

Drawing Title
**Llanilltud Faerdref
Existing Drainage and Utilities**

| | | | |
|-------------|-------------------------------------|------|------------|
| Scale at A1 | 1:250 | Role | Civils |
| Suitability | S3- Suitable for Review and Comment | | |
| Job No | 281143 | Rev | P02 |
| Drawing No | RH0301-ARP-ZZ-00-DR-C-00021 | | |



Connection to existing site electricity supply

S W T W R S

LTHW pipework from ASHP

Collected rainwater pumped to plantroom (50mm dia). Vent pipe to be routed alongside and into the building

Rainwater from roof TBC

Indicative route of diverted storm water sewer

- Legend**
- Site Boundary
 - Proposed Surface Water Drainage
 - Proposed Foul Water Drainage
 - Proposed Rising Main
 - Proposed Bio-remediation Drainage Channel
 - Proposed Potable Water
 - Proposed Fire Water
 - Proposed Hydrant Main
 - Proposed LV Electric

- Notes**
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 3. The topographic survey detail shown on this drawing is based on a survey carried out by 'Technics Group' in September 2019. No responsibility can be taken for the accuracy of this survey.
 4. All levels are shown above ordnance datum (m AOD).
 5. The details shown on this drawing are subject to change in subsequent design stages and following any potential comments received from statutory authorities.
 6. Existing services to the existing school building to be removed not shown on this drawing for clarity.
 7. Contractor to identify any unknown services prior to commencement of works.
 8. Contractor to investigate and identify all known and unknown services prior to commencement of works.
 9. Refer to MEP drawings for the utility strategy and how the services are to be removed and at what stage of the project.
 10. The existing drainage of the school site will need to be accommodated during construction.
 11. No gas is required

| | | | | |
|-------------------------|----------|----|------|------|
| P01 | 24/09/21 | IA | JN | IA |
| Issued for RIBA Stage 3 | | | | |
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4 Pierhead St, Capital Waterside
Cardiff, CF10 4GP
T +44(0)29 20473227 F +44(0)29 20472277
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Drawing Title
**Llanilltud Faerdref
Proposed Utilities**

Scale at A1 1:250 Role Civils

Suitability S3- Suitable for Review and Comment

Job No **281143** Rev **P01**

Drawing No **RH0301-ARP-ZZ-00-DR-C-00081**