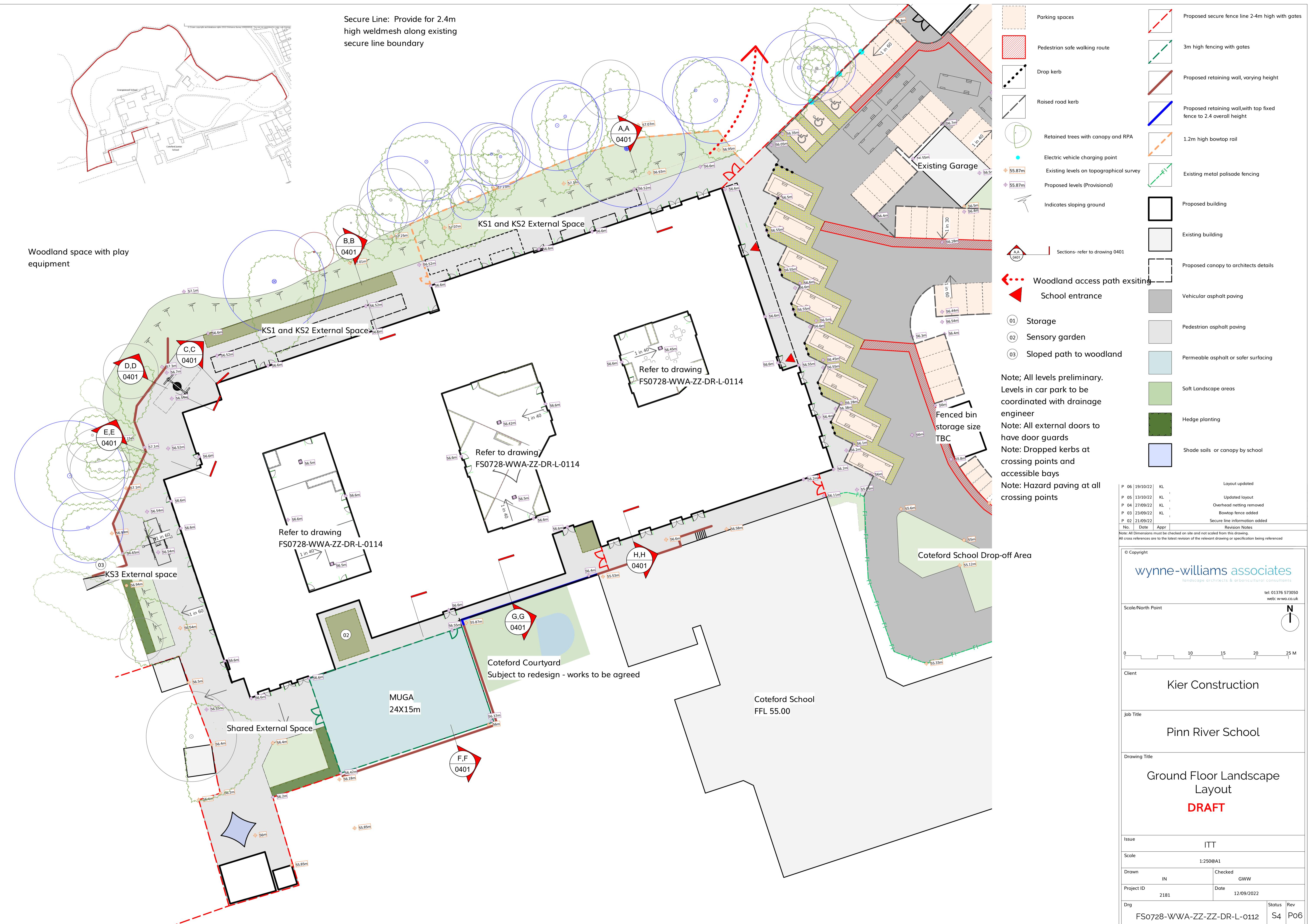

8.3 Appendix C – Proposed Landscape Architect's Plans





- 107 Standard parking bays
- 3 Accessible bays
- 3 school minibus parking bays
- 8 minibus drop off bays
- 9 minibus waiting

01 Powered 2 wheeler parking

02 Minibus drop off bays

Proposed secure fence line 2-4m high

Existing metal palisade fencing

Vehicular asphalt

Parking spaces

Pedestrian safe walking route

Drop kerb

Raised road kerb

Gravel margins

Existing soft landscape

Electric Vehicle Charging Point

Retained trees with canopy and RPA

School entrance

- Note; Levels and drainage in car park to be coordinated with drainage engineers drawings
- Note; Dropped kerbs at crossing points and accessible bays
- Note; Hazard paving at crossing points

Note: Hazard paving at crossing points			
P 03	19/10/22	KL	Updated layouts and levels
P 02	13/10/22	KL	Updated layout

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wynne-williams associates

landscape architects & arboricultural consultants

tel: 01376 573050
web: w-wa.co.uk

Scale/North Point

A circular north arrow symbol with a vertical line and a capital letter 'N' at the top.

0 10 15 20 25 M

Client

Kier Construction

Job Title

Pinn River School

Drawing Title

Car Park Layout

DRAFT

Issue

PLANNING

Scale

1:250@A1

Drawn IN	Checked GWW	
Project ID 2181	Date 12/09/2022	
Drg FS0728-WWA-ZZ-ZZ-DR-L-0113	Status S4	Rev P03

8.4 Appendix D – Proposed Below Ground Drainage General Arrangement

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

It is a requirement that only experienced and competent contractors carry out the work described, using a recognised safe method of working. The following are significant residual risks identified by the designer and are additional to those hazards/risks normally associated with this type of work.



Where appropriate the residual risks are indicated on the drawing with the symbol and reference to the note number

Construction

C1: WORKS TO TAKE PLACE NEAR TO EXISTING SERVICES AND DRAINAGE, INCLUDING A LARGE GAS MAIN THAT RUNS FROM THE BOILER HOUSE. EXTREME CAUTION ADVISED WHEN OPERATING NEAR TO THE GAS MAIN.

C2: CONSTRUCTION WORKS TO TAKE PLACE ADJACENT TO A LIVE SITE OCCUPIED BY VULNERABLE PERSONS.

C3: WORKS TAKING PLACE ADJACENT TO THE LONDON GREEN BELT, SSSI, GRADE 1 NATURE CONSERVATION

C4: EXISTING UNDERGROUND SERVICES LOCATED ON SITE; ALL EXISTING DRAINAGE SERVICES TO BE TIED BACK TO SITE BOUNDARY PRIOR TO CONSTRUCTION WORKS. EXISTING M&E SERVICES STRATEGY TO BE AGREED UPON WITH THE M&E ENGINEER PRIOR TO CONSTRUCTION.

C5: WORKS REQUIRE CONNECTION INTO LIVE SEWERS. SEWERS TO BE INACTIVE PRIOR TO ANY WORKS TAKING PLACE.

C6: CARE TO BE TAKEN TO AVOID CROSS CONTAMINATION BETWEEN SURFACE WATER AND FOUL WATER SEWERS.

C7: RISK OF DISEASE WHEN WORKING WITH EXISTING SEWERS. APPROPRIATE PPE TO BE WORN AT ALL TIMES. WORKS TO BE UNDERTAKEN ONLY BY TRAINED AND COMPETENT PERSONNEL.

C8: EXCAVATION WORKS:

- TRENCHES AND EXCAVATIONS ARE TO BE SHORED UP OR BATTERED BACK TO ENSURE ANY RISK OF THE SIDES COLLAPSING IS MITIGATED.
- EXISTING UTILITIES ARE TO BE IDENTIFIED AND PROTECTED DURING EXCAVATIONS WORKS. IT IS POSSIBLE THERE ARE UNIDENTIFIED UTILITIES, CARE TO BE TAKEN DURING EXCAVATION TO AVOID AND IDENTIFY THESE.

C9: VENTILATION PIPES TO BE INSTALLED ON FOUL MANHOLES TO PREVENT A BUILD-UP OF TOXIC GAS.

Operation

O1: WHERE WET RISERS ARE PROPOSED FOR USE, TESTING TO BE CARRIED OUT OUTSIDE PEAK FOUL DRAINAGE HOURS.

O2: MANHOLES ARE PROPOSED WITHIN THE PLAYGROUND AND MUGA PITCHES. MANHOLES LOCATED WITHIN SCHOOL GROUNDS TO BE LOCKED TO PREVENT CHILDREN FROM ACCESSING THEM.

Maintenance

M1: SEVERAL PROPOSED MANHOLES HAVE DEPTHS EXCEEDING 2m. CARE TO BE TAKEN WHEN UNDERTAKING MAINTENANCE TASKS ON DEEP MANHOLES. MAINTENANCE TO ONLY BE UNDERTAKEN BY TRAINED AND COMPETENT PERSONNEL.

M2: ACCESS TO THE ATTENUATION TANK IS LIMITED. REFER TO CURTINS' O&M MANUAL AND THE MANUFACTURER'S RECOMMENDATIONS FOR MAINTENANCE PROCEDURES FOR THE ATTENUATION TANK.

Demolition

D1: AN ASBESTOS SURVEY MUST BE UNDERTAKEN PRIOR TO ANY DEMOLITION OR CONSTRUCTION WORKS TAKING PLACE ON SITE.

D2: DEMOLITION WORKS MAY REQUIRE THE REMOVAL OF THE PROPOSED ATTENUATION TANK CRATES TO BE DISPOSED OF LEGALLY AND IN LINE WITH THE MANUFACTURE'S RECOMMENDATIONS. WHERE POSSIBLE, ATTENUATION CRATES SHOULD BE REUSED, REPURPOSED FOR USE OR RECYCLED.

ALL EXISTING DRAINAGE COLLECTING RUN-OFF FROM WITHIN THE PROPOSED DRAINAGE AREA TO BE STOPPED UP OR REMOVED. PROPOSED AREA TO BE DRAINED USING NEW GULLIES AND CHANNELS

UPSTREAM CONNECTIONS OF EXISTING DRAINAGE RUNS TO BE CONFIRMED. PREVIOUS CCTV SURVEY WAS ABANDONED DUE TO A CHANGE IN PIPE SIZE

CHANNEL DRAIN WILL BE REQUIRED ALONG EASTERN EDGE OF BUILDING IN ORDER TO PROTECT STRUCTURE FROM SURFACE WATER RUNOFF. CHANNEL DRAIN TO CONNECT INTO PROPOSED DIVERSION SURFACE WATER MANHOLE SW34. SUBJECT TO COORDINATION WITH LANDSCAPE ARCHITECT LEVELS PLAN.

AREAS OF NEW HARDSTANDING TO BE DRAINED INTO EXISTING DRAINAGE SYSTEM AND DISCHARGED FROM SITE UNRESTRICTED. TO COMPENSATE, AN AREA OF EXISTING CAR PARK TO THE NORTH HAS BEEN INCLUDED IN THE PROPOSED NETWORKS CATCHMENT AREA. THE AREA DRAINING UN-RESTRICTED IS MARGINALLY LESS THAN IN THE PRE-DEVELOPMENT CASE.

PERMEABLE MUGA SURFACING PROPOSED FOR THE PITCH AND SURROUNDING AREAS WHERE VIEABLE. TO BE DESIGNED BY A SPECIALIST MUGA SURFACING ENGINEER.

TYPE 3 SUBBASE OF DEPTH 200-300mm PROPOSED. PERFORATED PIPES PROPOSED TO BE INSTALLED ABOVE THE TANK AND BELOW THE TYPE 3 SUB-BASE. DEPTH TO BE CONFIRMED FOLLOWING RECEIPT OF LANDSCAPE ARCHITECT'S LEVELS PLAN.

ROUTE SHOWN IS ANTICIPATED ONLY. CCTV AND GPR SURVEY REQUIRED TO CONFIRM LOCATION AND DIRECTION OF EXISTING SURFACE WATER DRAIN

PROPOSED ATTENUATION TANK TO BE PLACED UNDERNEATH THE PROPOSED PERMEABLE MUGA PITCH.

APPROXIMATE STORAGE VOLUME - 505.5m³ AREA - 47.3m² DEPTH - 1.125m POROSITY - 95%

C.L: 56.10 I.L: 54.14

EXISTING SURFACE WATER MANHOLE TO BE RELOCATED TO SW33 OUTFALL

CONTRACTOR TO CONFIRM EXISTING MANHOLE LEVEL FOLLOWING VARYING SURVEY RESULTS IDENTIFIED BY CURTINS

PROPOSED MANHOLE TO BE CONSTRUCTED OVER EXISTING SW OUTFALL. GPR AND CCTV SURVEY REQUIRED TO IDENTIFY LOCATION OF EXISTING SEWER.

VORTEX FLOW CONTROL MANHOLE (SW33 OUTFALL): DESIGN HEAD - 1.9m DESIGN FLOW - 2.5l/s

PROPOSED MANHOLE TO BE CONSTRUCTED OVER EXISTING SW OUTFALL. GPR AND CCTV SURVEY REQUIRED TO IDENTIFY LOCATION OF EXISTING SEWER.

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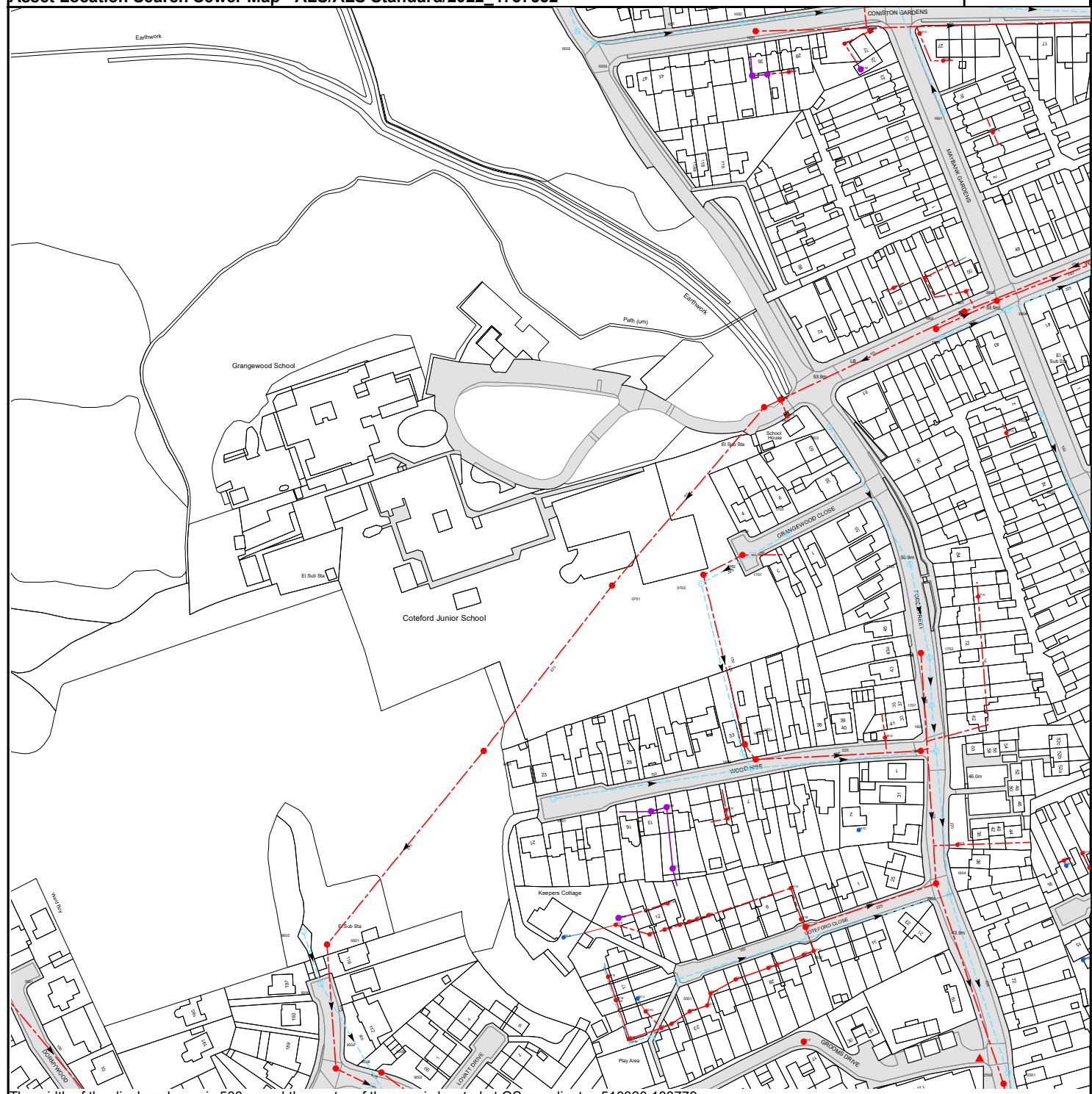
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8.5 Appendix E – Thames Water Sewer Record

Asset Location Search Sewer Map - ALS/ALS Standard/2022_4737552



The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.

Based on the Ordnance Survey Map (2020) with the Sanction of the controller of H.M. Stationery Office, License no. 100019345 Crown Copyright Reserved.

NB. Levels quoted in metres Ordnance Newlyn Datum. The value -9999.00 indicates that no survey information is available

Manhole Reference	Manhole Cover Level	Manhole Invert Level
151F	n/a	n/a
261G	n/a	n/a
261F	n/a	n/a
261E	n/a	n/a
261H	n/a	n/a
271A	n/a	n/a
281C	n/a	n/a
181C	n/a	n/a
191E	n/a	n/a
191D	n/a	n/a
191C	n/a	n/a
1801	53.42	41.13
181B	n/a	n/a
1804	55.01	52.91
1802	54.94	52.08
2801	54.13	41.3
2804	53.88	51.25
2802	53.75	50.81
281A	n/a	n/a
191A	n/a	n/a
291A	n/a	n/a
1901	52.8	49.85
191B	n/a	n/a
101B	n/a	n/a
101D	n/a	n/a
101C	n/a	n/a
1001	53.12	49.8
101F	n/a	n/a
1002	53.37	50.51
1003	51.32	48.19
051H	n/a	n/a
051K	n/a	n/a
051N	n/a	n/a
051J	n/a	n/a
9506	47.54	45.44
051E	n/a	n/a
9501	48.61	40.47
051A	n/a	n/a
061G	n/a	n/a
9602	48.43	46.28
061F	n/a	n/a
061D	n/a	n/a
061A	n/a	n/a
0601	47.95	46.09
9601	50.36	40.68
0701	50.95	40.93
0003	54.75	51.21
0002	54.85	52.99
2803	53.92	51.25
251A	n/a	n/a
251D	n/a	n/a
2501	43.19	40.45
2502	43.17	41.77
051F	n/a	n/a
051G	n/a	n/a
051B	n/a	n/a
051C	n/a	n/a
051D	n/a	n/a
0501	44.85	43.38
151B	n/a	n/a
151C	n/a	n/a
151E	n/a	n/a
151A	n/a	n/a
151D	n/a	n/a
1501	44.38	42.96
061O	n/a	n/a
1605	44.37	42.29
061H	n/a	n/a
061N	n/a	n/a
161B	n/a	n/a
061M	n/a	n/a
061L	n/a	n/a
061E	n/a	n/a
2603	n/a	n/a
161A	n/a	n/a
1604	45.34	42.29
9502	42.19	40.38
9508	45.57	43.76
9504	45.43	43.25
051I	n/a	n/a
051M	n/a	n/a
051L	n/a	n/a
061B	n/a	n/a
061C	n/a	n/a
0703	n/a	n/a
0702	49.85	47.65
061P	n/a	n/a
161E	n/a	n/a
1701	49.88	48.3
1606	47.18	46.04
1601	47.31	45.41

Manhole Reference	Manhole Cover Level	Manhole Invert Level
1607	46.77	45.47
1704	49.89	48.51
1602	46.84	45.04
181A	n/a	n/a
1703	50.7	48.68
1803	n/a	n/a
161C	n/a	n/a
161D	n/a	n/a
1705	51.44	49.89
1603	46.72	44.22
1702	48.68	45.94
1706	48.49	46.9
1707	47.55	45.46
1608	46.78	44.78
261A	n/a	n/a
2805	53.08	51.68
2806	52.73	50.64

The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified and established on site before any works are undertaken.



Asset Location Search - Sewer Key

Public Sewer Types (Operated and maintained by Thames Water)

- Foul Sewer:** A sewer designed to convey waste water from domestic and industrial sources to a treatment works.
- Surface Water Sewer:** A sewer designed to convey surface water (e.g. rain water from roofs, yards and car parks) to rivers or watercourses.
- Combined Sewer:** A sewer designed to convey both waste water and surface water from domestic and industrial sources to a treatment works.
- Storm Sewer:**

Sewer Fittings

A feature in a sewer that does not affect the flow in the pipe. Example: a vent is a fitting as the function of a vent is to release excess gas.

- Air Valve
- Dam Chase
- Fitting
- Sludge Sewer
- Foul Trunk Sewer
- Combined Trunk Sewer
- Surface Water Raising Main
- Vacuum
- Vent Pipe

Other Symbols

Symbols used on maps which do not fall under other general categories.

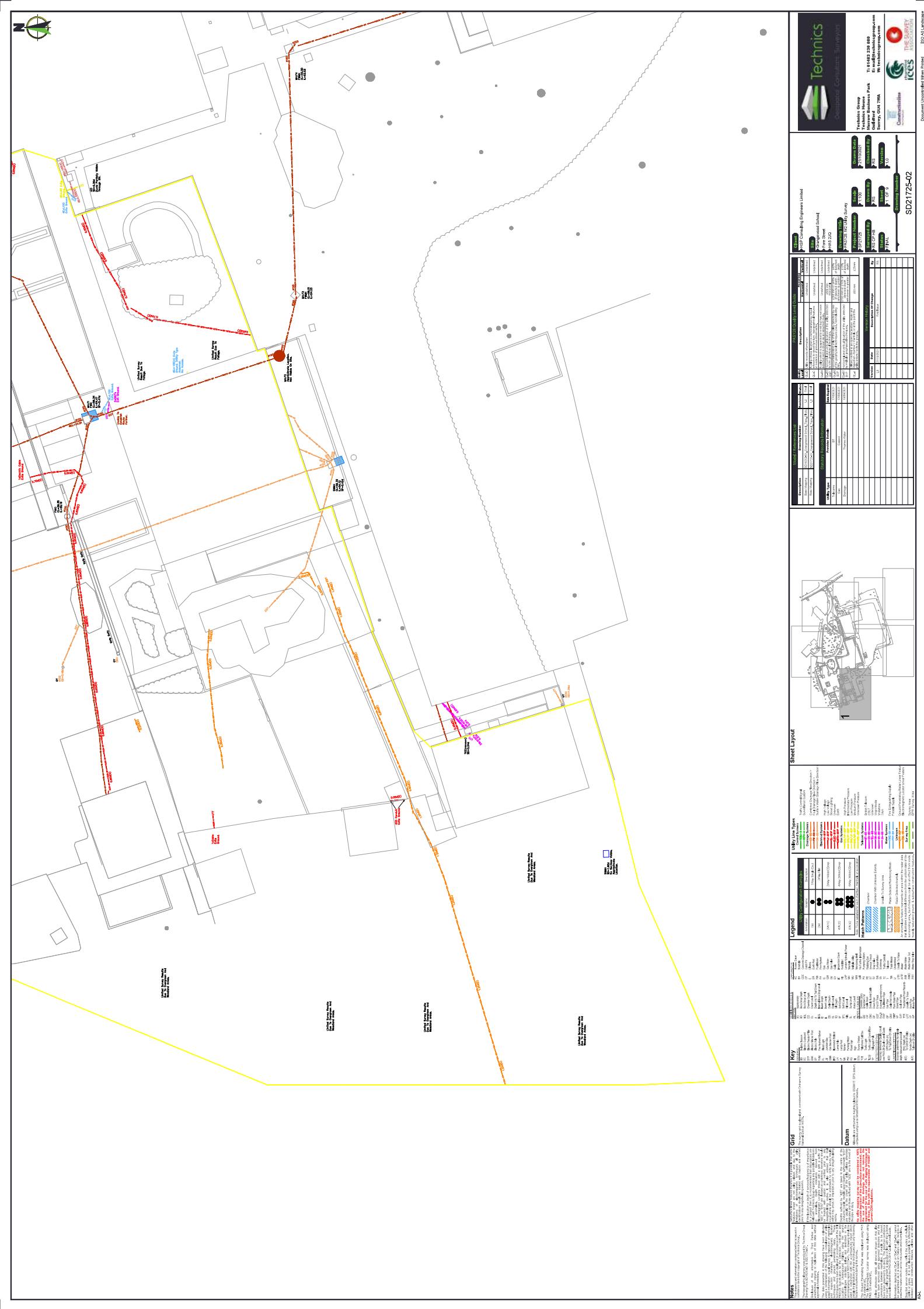
- Change of Characteristic Indicator
- Invert Level
- Summit
- Areas Lines denoting areas of underground surveys, etc.
- Agreement
- Chamber
- Operational Site
- End Items
- Ducts or Crossings
- End
- Casement
- Conduit Bridge
- Subway
- Tunnel

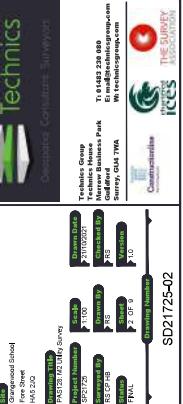
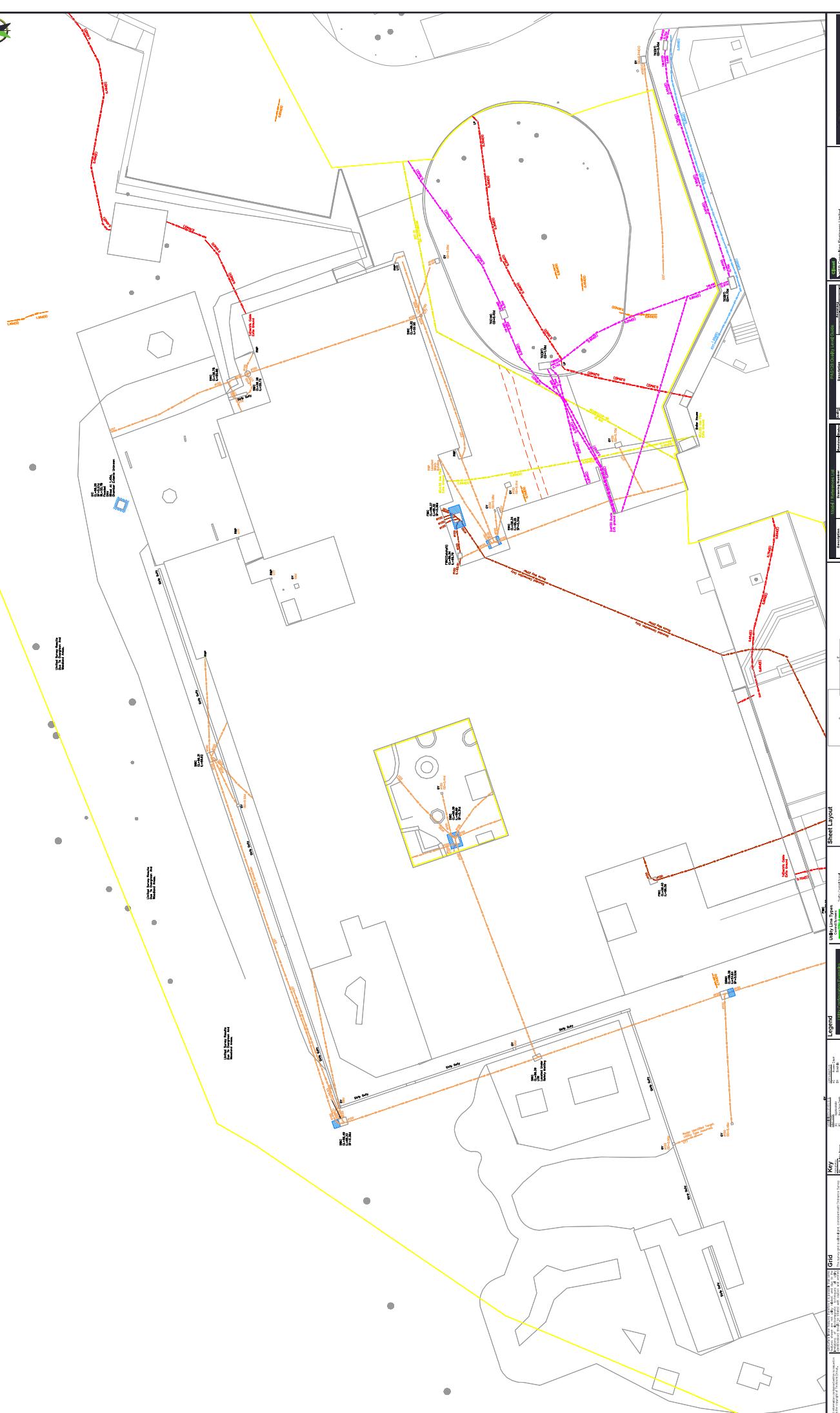
Notes:

- All levels associated with the plants are to Ordnance Datum Newlyn.
- All measurements on the plan are metric.
- Arrows (on gravity fed sewers) or flicks (on rising mains) indicate the direction of flow.
- More private pipes are not shown on our plans, as in the past, this information has not been recorded.

- 'hi' or 'lo' on a manhole indicates that data is unavailable.
- The text appearing alongside a sewer line indicates the internal diameter of the pipe in millimetres.
- Text next to a manhole indicates the manhole reference number and should not be taken as a measurement.
- If you are unsure about any text or symbology, please contact Property Searches on 0800 009 4540.

8.6 Appendix F – CCTV and Utilities Survey



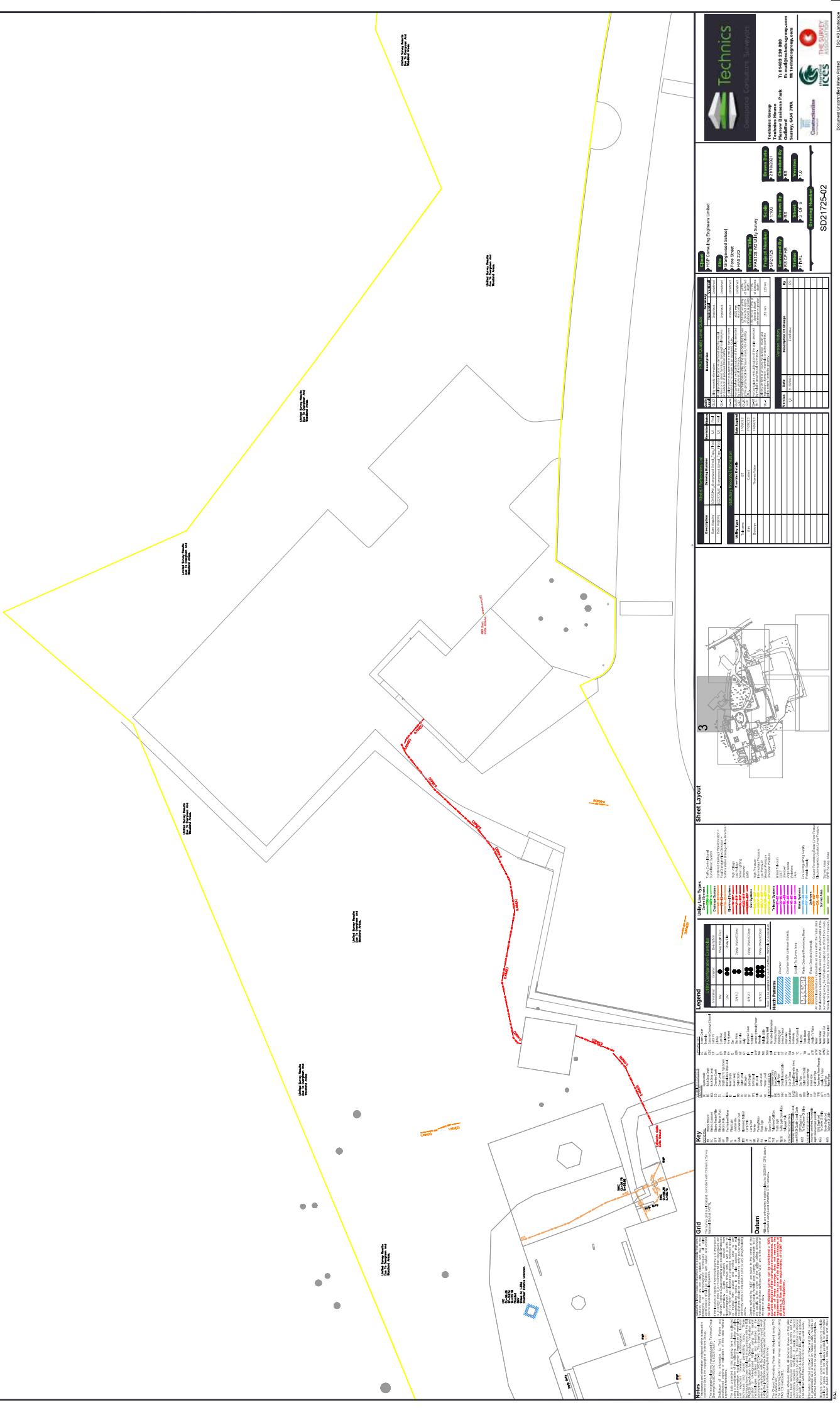


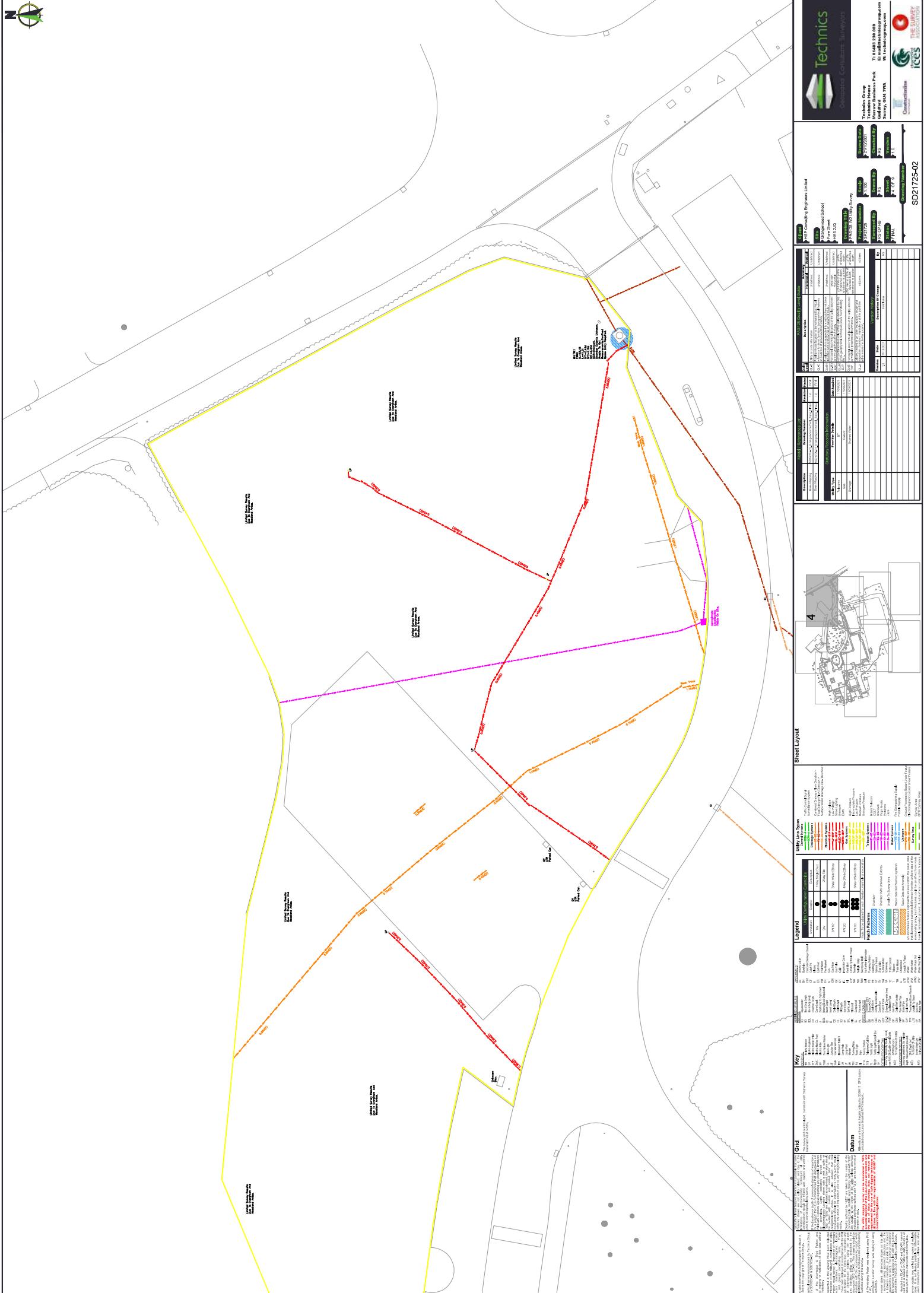
Project Information	
Project Name	SD21725-02
Client	SP Consulting Engineers Limited
Surveyor	Technics Surveyors Ltd
Address	100-102 London Road, Luton, Bedfordshire, LU1 1JL
Telephone	01582 711000
Fax	01582 711025
E-mail	info@technics-surveyors.com
Web	www.technics-surveyors.com
Project Manager	David
Surveyor	Chris
Site Manager	Paul
Site Office Address	100-102 London Road, Luton, Bedfordshire, LU1 1JL
Site Office Telephone	01582 711000
Site Office Fax	01582 711025
Site Office E-mail	info@technics-surveyors.com
Site Office Web	www.technics-surveyors.com
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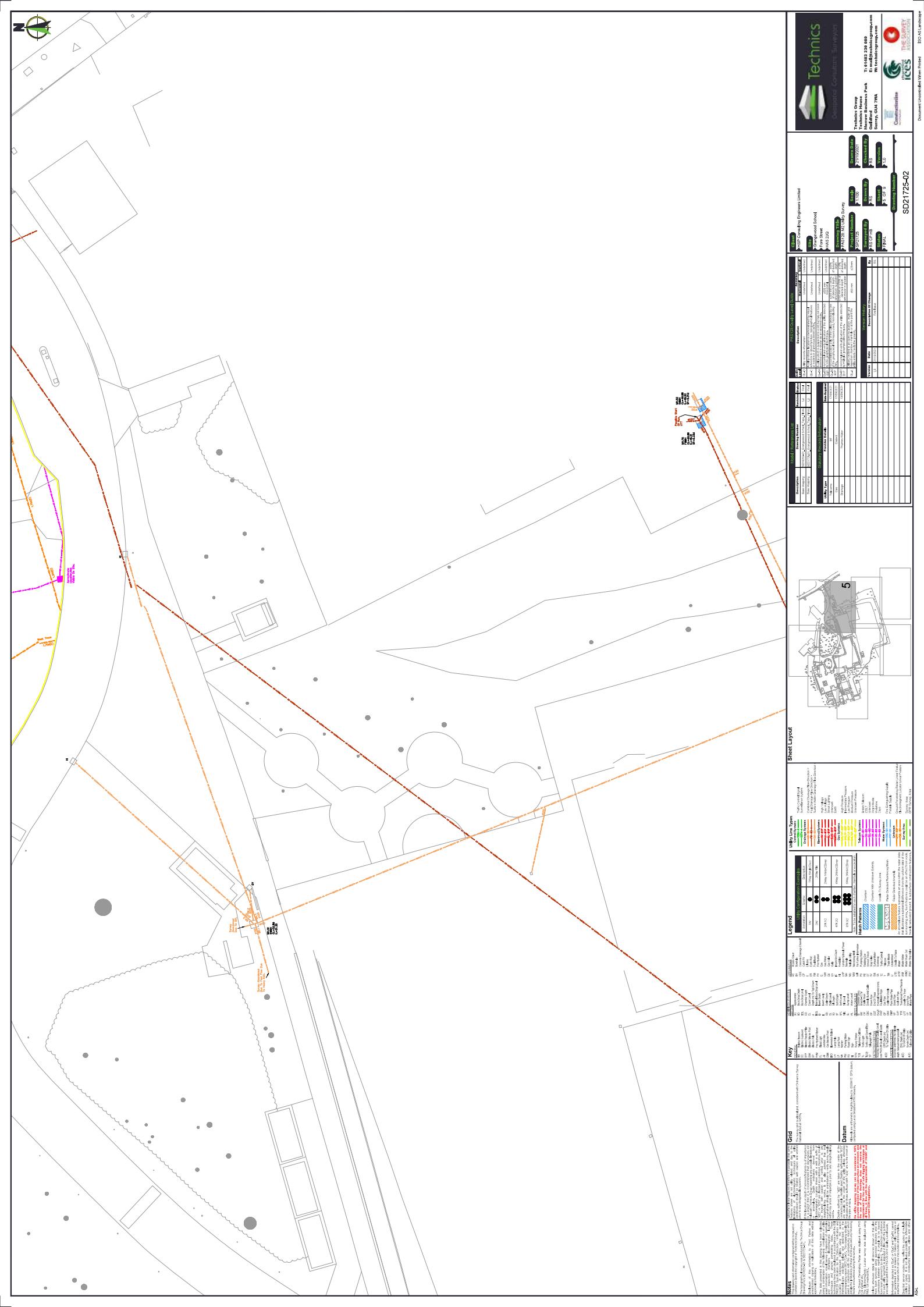
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Fax	01582 711025
E-mail	info@technics-surveyors.com
Web	www.technics-surveyors.com
Project Manager	David
Surveyor	Chris
Site Manager	Paul
Site Office Address	100-102 London Road, Luton, Bedfordshire, LU1 1JL
Site Office Telephone	01582 711000
Site Office Fax	01582 711025
Site Office E-mail	info@technics-surveyors.com
Site Office Web	www.technics-surveyors.com
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Site Fax	01582 711025
Site E-mail	info@technics-surveyors.com
Site Web	www.technics-surveyors.com

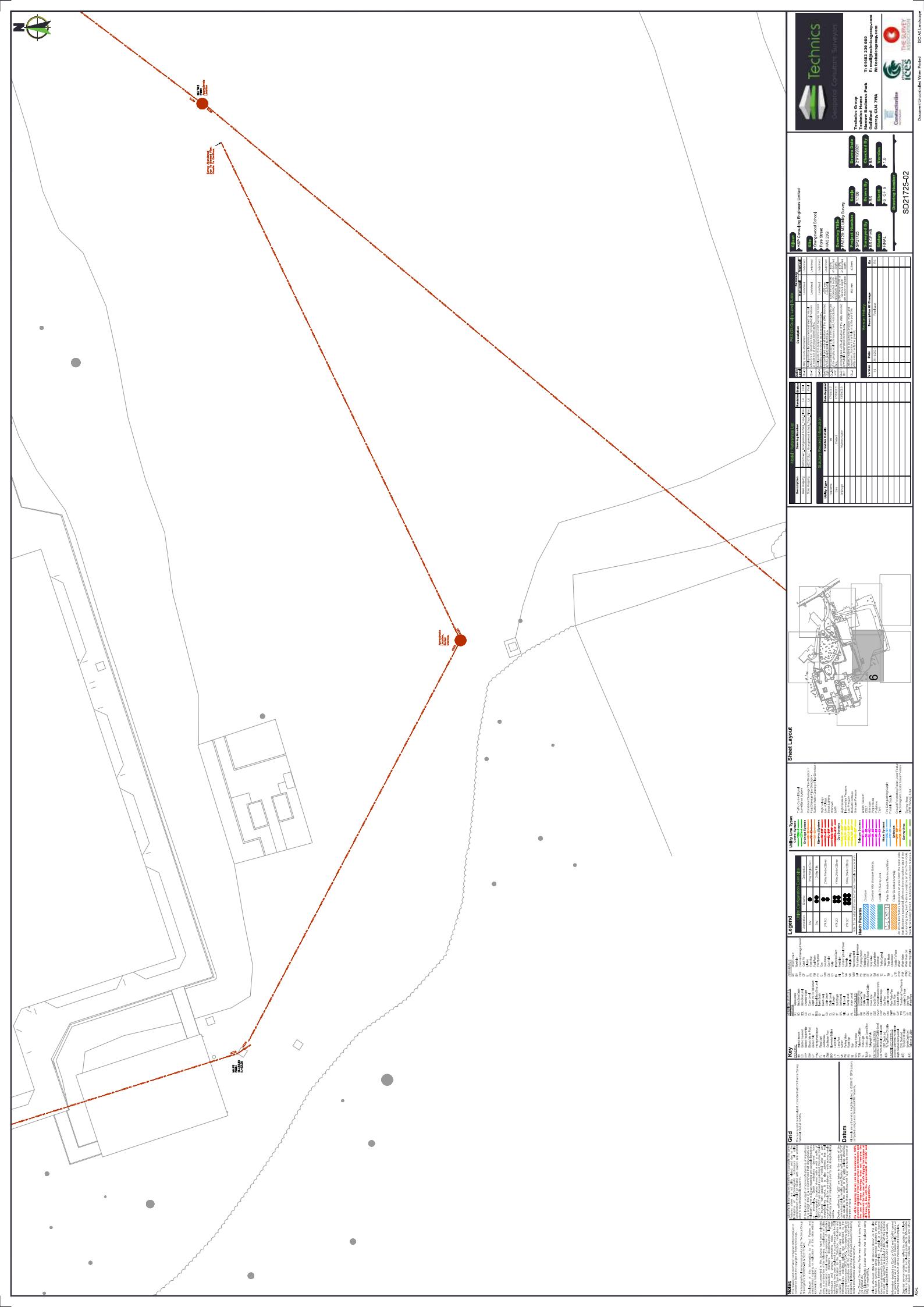


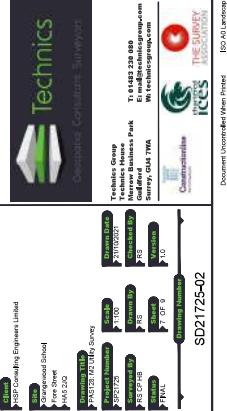
Notes	
Grid	Grid reference: SD 21725-02. The grid reference is based on the British National Grid (BNG) system. The grid reference SD 21725-02 is located in the 100km square SD, the 10km square 217, and the 1km square 02. The grid reference is used to identify the location of the survey data and the site plan.
Datum	Datum: The survey data is based on the British National Grid (BNG) datum. The BNG datum is a horizontal reference system for Great Britain, defined by the Ordnance Survey. The datum is used to provide a consistent reference for the survey data and the site plan.
Scale	Scale: The scale of the site plan is 1:1000. This means that 1 unit of length on the plan represents 1000 units of length on the ground. The scale is indicated by a scale bar on the plan.
Orientation	Orientation: The orientation of the site plan is indicated by a compass rose, which shows the cardinal directions (North, South, East, West) and intermediate directions (Northeast, Southeast, Southwest, Northwest).



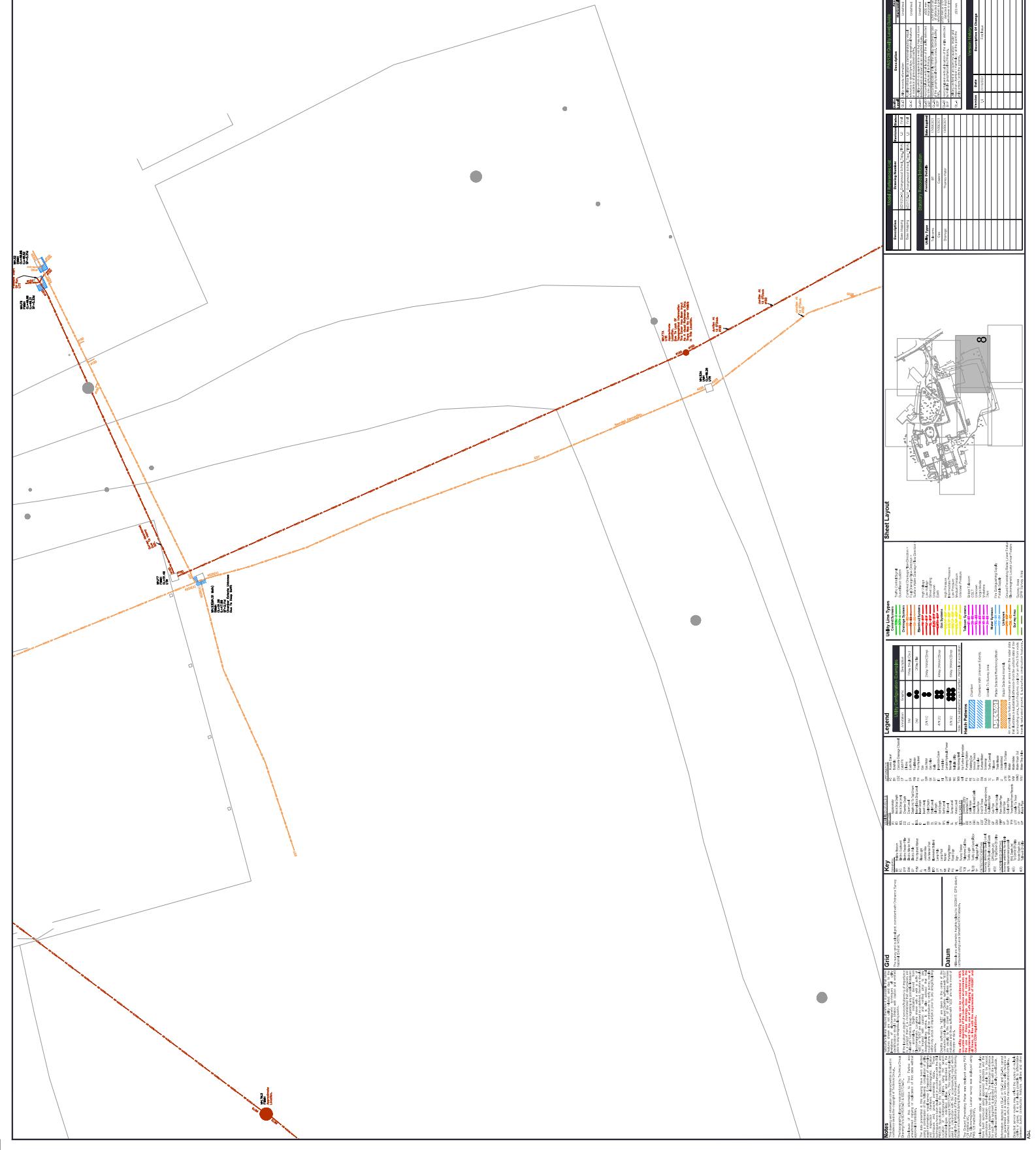


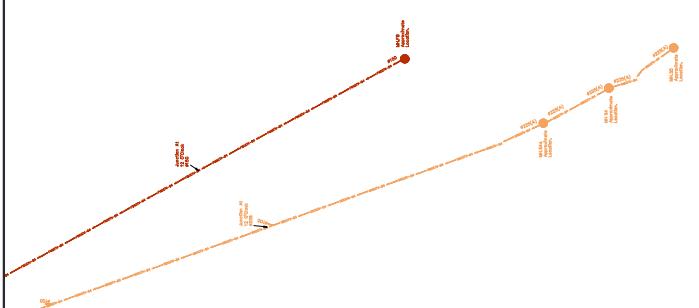






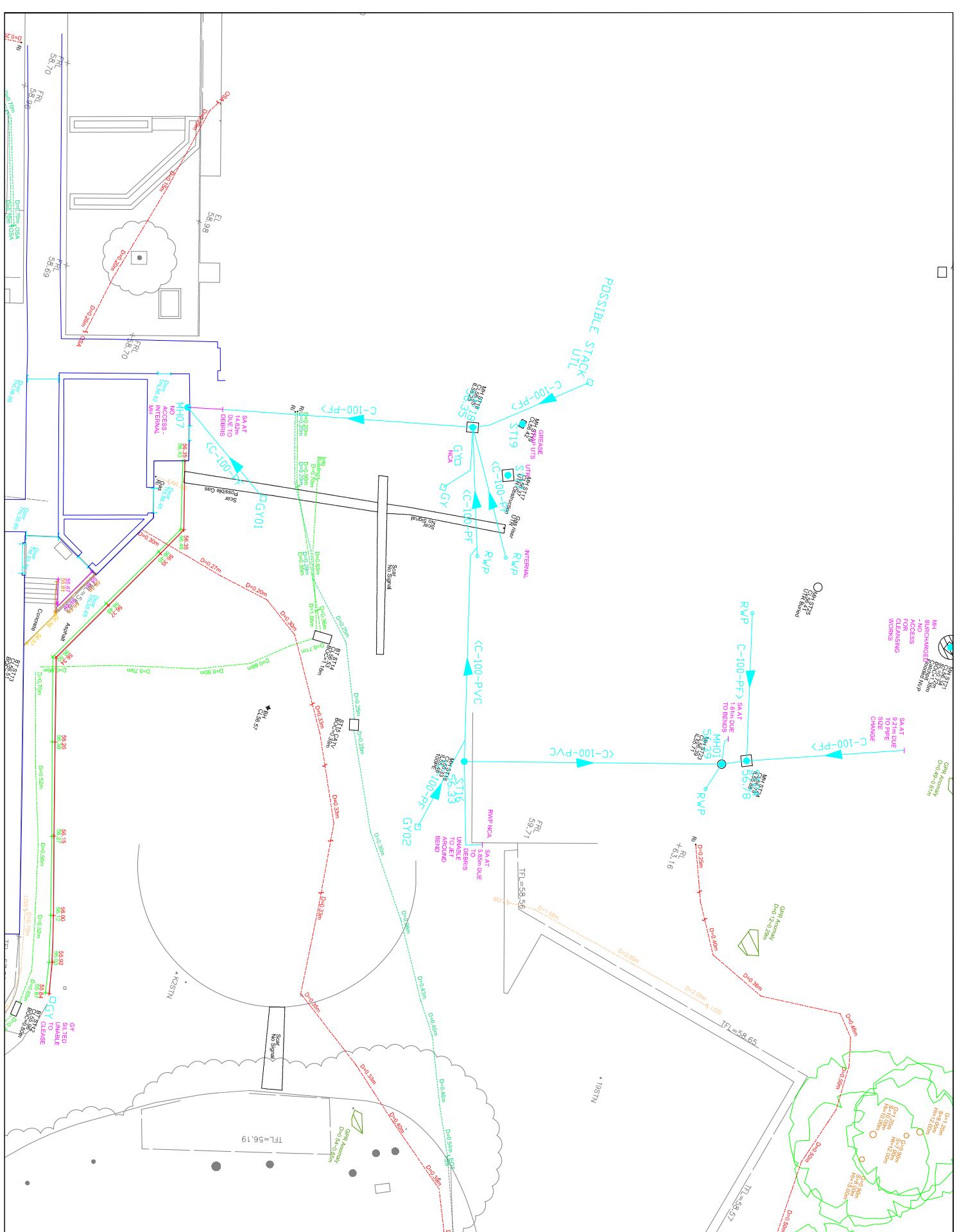
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100% Configuration Examples	
1. Basic Configuration	Configure basic system parameters, including IP address, subnet mask, and gateway.
2. Advanced Routing	Configure static routes and dynamic routing protocols (e.g., OSPF, BGP) to handle complex network topologies.
3. Quality of Service (QoS)	Configure QoS policies to prioritize traffic based on priority levels (e.g., VoIP, video, data).
4. Network Security	Configure security features such as firewalls, intrusion detection systems (IDS), and secure shell (SSH) access.
5. Network Monitoring	Configure monitoring and logging features to track network performance and detect anomalies.
6. Network Optimization	Configure optimization features such as traffic shaping and link aggregation to improve network performance.
7. Network Troubleshooting	Configure troubleshooting features such as ping, traceroute, and port mirroring to diagnose network issues.
8. Network Configuration Examples	Configure specific network components such as switches, routers, and wireless access points.
9. Network Configuration Examples	Configure specific network components such as switches, routers, and wireless access points.
10. Network Configuration Examples	Configure specific network components such as switches, routers, and wireless access points.

Column		Column	
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CLIENT:
40SEVEN

CLIENT:
40SEVEN

REV AMENDMENT BY
PROJECT:

40 SEVEN
PINN RIVER SCHOOL
PINNER

TITLE:

PENN RIVER SCHOOL
DRAINAGE PLAN 1 OF 4

SCALE: 1:100 DRWG SHEET: 1
DRAWING NO.: 1101-1027

DRAWING NO.: 1121-1037

CHECKED BY: RC DATE: 06/09/2014

i-3
Intelligent

DS DRAINS

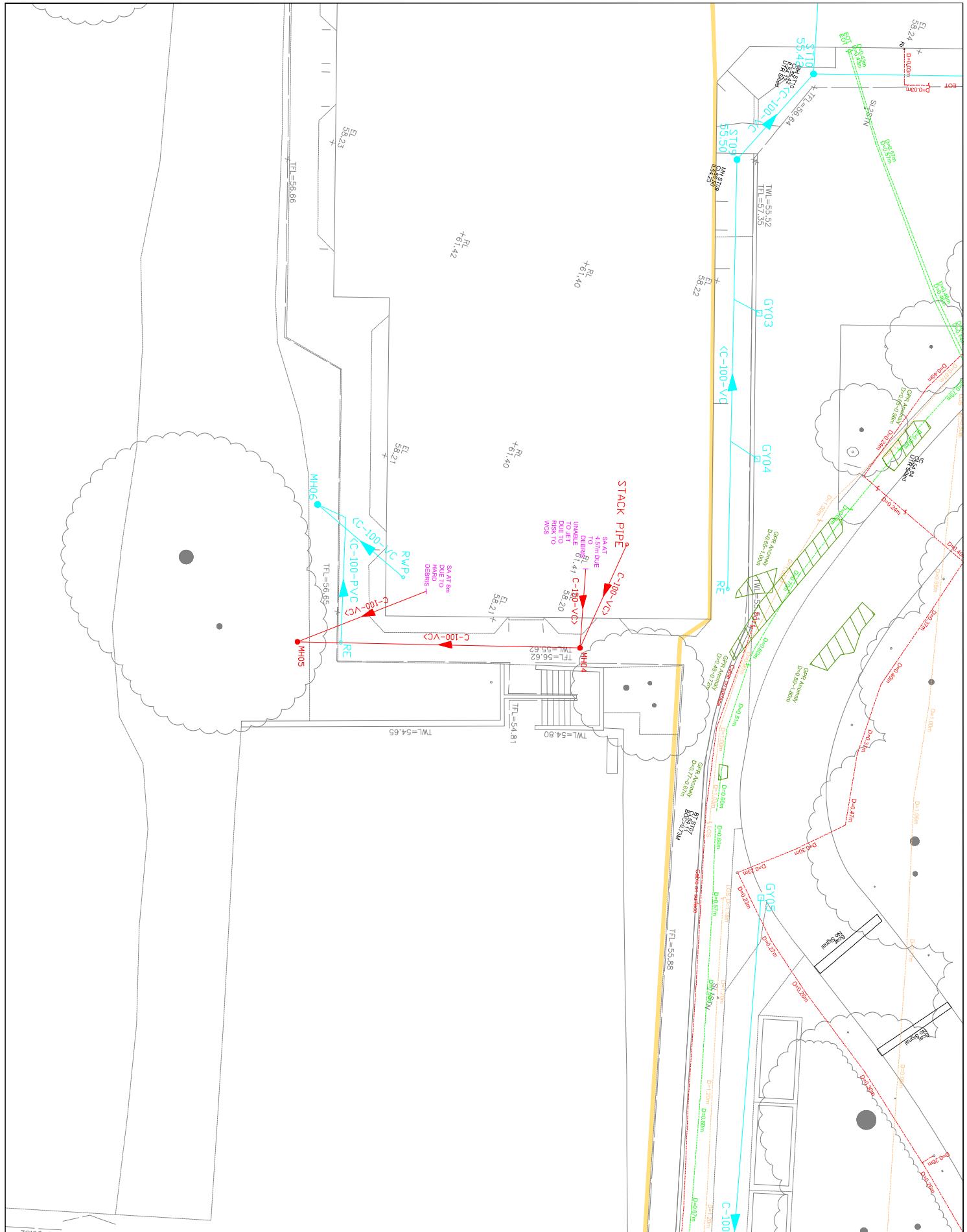
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Intelligent Drainage Solutions Ltd
Unit 3

London Road Business Park
Refford

Notts
DN22 6HG

Tel: 01777 858707



SYMBOLS:

LINE TYPES:

Surface Water Drainage

Foul Water Drainage

Combined Water Drainage

Magenta lines show Assumed Lines

Unsurveyed and Assumed Lines