Technical Note: Tidal Flood Modelling for Medmerry Park, Chichester.

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Project: 3341 – Medmerry Park

Date: 09 August 2023

Revision: 2nd ISSUE

1. Background Information

1.1. Herrington Consulting has been commissioned to undertake numerical flood modelling for Medmerry Park Holiday Village. The purpose of the modelling is to support a Flood Risk Assessment (FRA) and planning application for modernisation of the Park, which includes landscaping to raise the existing units above the tidal flood level. No additional units have been proposed as part of the post-development scenario. The location of the site is shown in Figure 1.

1.2. This technical note details the setup of the model representing the existing and post development scenarios, for the purpose of refining the risk of flooding from the sea (separate modelling of surface water risks have been considered in a corresponding report).

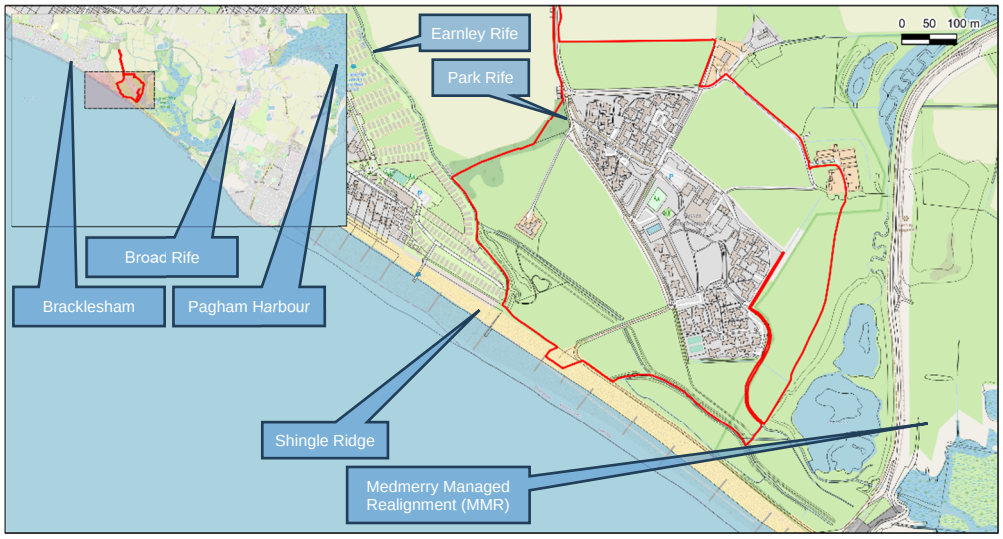


Figure 1 – Site location

1.3. The Park is situated in low-lying coastal hinterlands between Medmerry Managed Realignment (MMR), Bracklesham, and Earnley. The sea defences in the region consist of natural shingle ridge to the rear of a variable width beach. The frontage directly adjacent to the Park has a policy of managed retreat, which changes to hold the line at Bracklesham. The sea defences around the perimeter of the MMR are engineered earthen embankments, with flap-valve culverts facilitating the drainage of the rifes from Earnley, the park, and the Earnley flood alleviation scheme.

1.4. The shingle ridge directly adjacent to the MMR has become eroded following storms during the winter of 2022/2023. Gravel sediments from the shingle ridge have been rolled back into the hinterland and the crest level depleted from 5 mODN to approximately 3 mODN. This is consistent with the historic behaviour of the shingle ridge within the bounds of the MMR since is breaching in late 2013.

1.5. A topographic survey of the site has previously been undertaken in late 2019 and has been made available to inform this modelling study. A copy of the topographic survey drawing has been enclosed with this technical note.

2. Numerical Flood Model - Technical Methodology

2.1. The model has been constructed using the TUFLOW 2-dimensional (2D) numerical flood modelling system, version TUFLOW 2020-10-AF_iSP_w64. The model has 1-dimensional (1D) structures placed into the 2D domain, to represent the important culverts near the site; these have been constructed in ESTRY (TUFLOW's 1D channel and pipe flow model). The most recent version of TUFLOW has been used to take advantage of TUFLOW's Highly Parallelised Computation (HPC) using Graphical Processing Unit (GPU). This approach uses the latest advances in the TUFLOW software to ensure the detail is captured and capitalises on improved model run times to allow the entire catchment to be modelled.

2.2. The 2D Digital Elevation Model (DEM) uses a grid resolution of 8 m to represent the region. The ground elevations of the DEM are based upon the EA's 1 m LiDAR composite Digital Terrain Model (DTM) from 2022, which is shown in Figure 2.

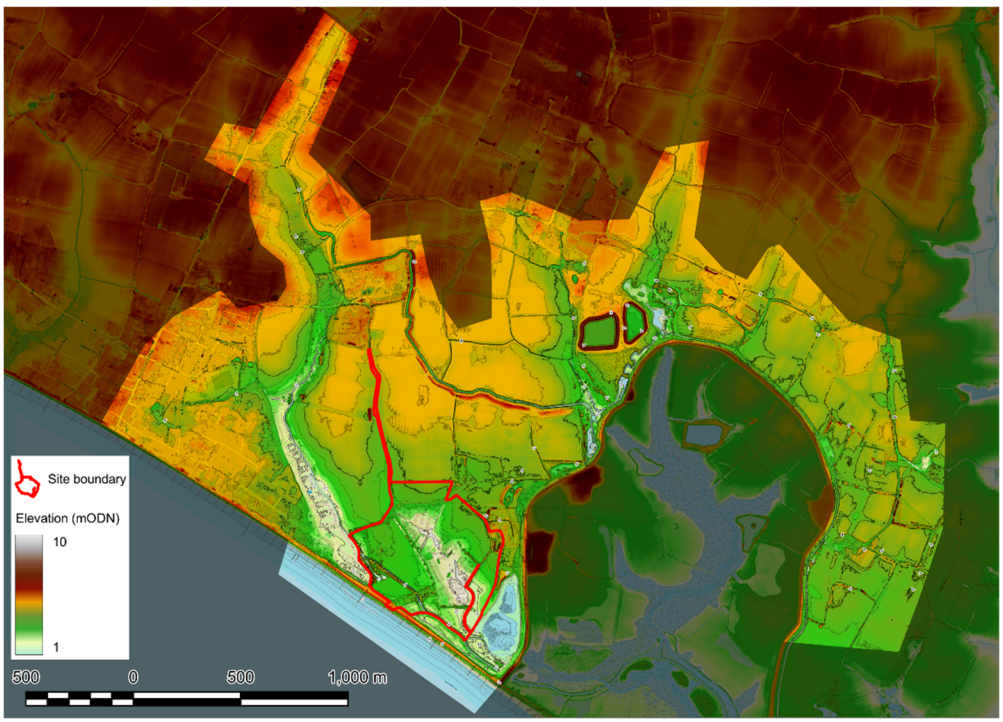


Figure 2 – Model active area and DTM

2.3. The LiDAR levels have been verified with the site-specific topographic survey levels and found to represent ground elevations well. Therefore, no modification of the model DEM has been undertaken using the topographic survey levels.

2.4. The model uses Sub-Grid Scale (SGS) sampling approach (sampling at 2 m) to overcome any sensitivity to model grid size and negate any requirement to increase the model resolution higher than the selected 8 m combination. Similarly, the wider area's 8 m resolution is sufficient to represent the main channels and flow routes found within the flood compartment.

2.5. The model uses a time-varying water level boundary to represent the tide. The tidal curve representing Selsey has been extracted from the Environment Agency Emsworth to Littlehampton 2014 Coastal model. The surge curves and heights have been extracted from the Environment Agency Coastal Flood Boundary, with surge values from chainage point 4598 and the surge curve from Portsmouth. The model simulates three tidal high waters, the first coinciding with the peak of the surge.

2.6. Climate change adjustments for sea level rise have been applied following the guidance of the NPPF for Higher Central. All adjustments have been made using the base year of 2014 as per the origin of the data used for the original coastal model. Adjustments range from 51.3 mm to 1,503.9 mm for present day through to 2125 (Upper End), respectively.

2.7. The tidal surge water levels have been applied to the main offshore 'HT' boundary as well as the outlet of the flapped outfall from Earnley Rife into the MMR.

2.8. Wave overtopping rates have been extracted directly from the Environment Agency Emsworth to Littlehampton 2014 model for boundary sections 'WO_69' through to 'WO_75'. The rates have been applied using a surface area '2d_sa' type boundary input instead of the 'pump' type used in the original model. The length of each boundary section has been used as the multiplier in the boundary database control file to convert the rate from the supplied discharge per linear metre to the total discharge.

2.9. The original model provided overtopping rates for the 2070 and 2115 epochs and for 'UKCP09' and 'NPPF' scenarios. The higher NFFP rates have been applied to the model without recalculation for the 2100 and 2125 epochs. This approach is necessary as it is impractical to attempt the reproduction of the original calculation to adjust them for the shift in epochs based on the current year. However, sensitivity testing of the overtopping rate has been undertaken and is detailed in Section 3.

2.10. The model applies a spatially varying Manning's *n* roughness values following the land use types of the Ordnance Survey MasterMap and standard values from Chow 1959.

Feature Code	Description	Manning's *n*
10021	Buildings	0.3
10053	General land surfaces	0.05
10054	General land surfaces	0.025
10056	General land surfaces	0.04
10089	Inland water	0.03
10096	Manmade embankments (ponds)	0.03
10111	Thick vegetation	0.08
10123	Roads, tracks, and paths	0.03
10172 & 10183	Roads, tracks, and paths	0.025
10185	Roads, tracks, and paths	0.03
10203	Foreshore	0.035
10210	Tidal waters	0.03
10217	Hardstanding	0.035

Table 1 – List of material types and the corresponding roughness values adopted from Chow 1959

2.11. Three extreme flow events have been simulated with the model, including:

- 1 in 30 year return period event (3.3%AEP, Annual Exceedance Probability), equivalent to the definition used for the functional floodplain;
- 1 in 200 year return period event (0.5%AEP) with and without climate change representing 2023, 2100, and 2125, as well as for both Higher Central and Upper End scenarios; and

- 1 in 1,000 year return period event (0.1%AEP) with and without climate change representing 2023, 2100, and 2125, as well as for both Higher Central and Upper End scenarios.

2.12. The model has been run for both defended and undefended scenarios. The defended scenario assumes that the shingle ridge along the frontage is maintained at 5 mODN along its length between Bracklesham and the MMR. The undefended scenario assumes that the same section of shingle ridge erodes to leave only the existing levels of the hinterland which vary spatially along the frontage.

2.13. The model simulates the flow input with no infiltration losses to the soils within the model domain. This approach is considered to represent the worst case conditions, where the ground is either already saturated or the soils have a negligible infiltration rate.

2.14. Table 2 lists the models run for the TUFLOW baseline and post-development scenarios. All simulations use the TUFLOW control file *3341_TDLMed23_~s1~_~e1~_~s2~.tcf*. Baseline simulations are designated A1 and A2 for defended and undefended scenarios, respectively. Post-development scenarios are designated B1 and B2 for defended and undefended scenarios, respectively.

Scenario	s1	e1	s2	Comment
Existing conditions	A1 (Defended)	T30[2023]HC	000	3.3%AEP, present day, Higher Central climate change
		T200[2023]HC		0.5%AEP, present day, Higher Central climate change
		T200[2125]HC		0.5%AEP, year 2125, Higher Central climate change
		T1000[2125]HC		0.1%AEP, year 2125, Higher Central climate change
		T1000[2023]HC		0.1%AEP, year 2125, Higher Central climate change
	A2 (Undefended)	T30[2023]HC		3.3%AEP, present day, Higher Central climate change
		T200[2023]HC		0.5%AEP, present day, Higher Central climate change
		T200[2125]HC		0.5%AEP, year 2125, Higher Central climate change
		T1000[2125]HC		0.1%AEP, year 2125, Higher Central climate change
Post-development	B1	T30[2023]HC		3.3%AEP, present day, Higher Central climate change
		T200[2023]HC		0.5%AEP, present day, Higher Central climate change
		T200[2125]HC		0.5%AEP, year 2125, Higher Central climate change
		T1000[2023]HC		0.1%AEP, present day, Higher Central climate change
		T1000[2125]HC		0.1%AEP, year 2125, Higher Central climate change
	B2	T200[2125]HC		0.5%AEP, year 2125, Higher Central climate change
		T1000[2125]HC		0.1%AEP, year 2125, Higher Central climate change
Sensitivity tests	A1	T200[2125]HC	OTup	Overtopping sensitivity test; rates increased by 10%
		T200[2125]HC	nUP	Manning's n roughness test; +20%
			nDN	Manning's n roughness test; -20%
	A2		nUP	Manning's n roughness test; +20%
			nDN	Manning's n roughness test; -20%

Table 2 – List of model simulations with corresponding events

2.15. Initial testing with the model has been used to determine the extent of the active area. This is generally straightforward with respect to the areas around Bracklesham and Earnley. However, to the rear of the MMR, the worst case flood extent (T1000[2125] Upper End; not otherwise presented) eventually reaches Broad Rife flowing towards the Environment Agency pumping station at Ferry Pool (the pumped outlet of Broad Rife into Pagham Harbour). Therefore, the

model is allowed to glass-wall at the rear of the MMR instead of continuing to slowly fill the flood compartment between the MMR and the Ferry Pool pumping station. This approach is conservative as it is the equivalent of filling the flood compartment early or assuming that it is already full. Any other assumption would lead to lesser flooding to the rear of the MMR.

2.16. Table 3 lists and describes the files used in the TUFLOW model setup, including geometry files, boundary files for both 2D and 1D.

File name	Description
2d_code_3341MedT_Active_Area_A_R.SHP	2D active area of the model
2d_loc_3341MT_grid_A_L.SHP	2D origin and orientation of the grid
3341_MedT_SZ89nw_compDTM_1m_A.ASC 3341_CCOSwath_2013_1m.ASC	Composite LiDAR ASC files interpolated to the grid and for SGS
3341_Lakes.ASC 3341_Orchard.ASC 3341_Secret Garden.ASC 3341_Woodland.ASC	Client supplied landscaping representing post-development
2d_zsh_3341MT_Udef_A_R.SHP 2d_zsh_3341MT_Udef_A_P.SHP	Z-shape control of shingle ridge to represent undefended scenarios
2d_mat_3341MT_MMmaterials_A_R.SHP	OS MasterMap materials layer
2d_mat_3341MT_tidal_A_R.SHP	Materials definition for tidal areas
2d_sa_3341_MedT_OT_BNDY_A_R.SHP 2d_sa_3341_MedT_OT_BNDY_A_plus10pc_R.SHP	Definition of overtopping boundaries; normal and sensitivity
2d_bc_3341MedT_Offshore_A_L.SHP	Offshore water level boundary
2d_bc_3341MT_SX_A_L.SHP	1D – 2D boundary interface connection between the pipe and the 2D representation of the watercourse
1d_nwk_3341MT_Culverts_A_L.SHP 1d_nwk_3341MT_Culverts_A_nUP_L.SHP 1d_nwk_3341MT_Culverts_A_nDN_L.SHP	Flap-valve culvert for Earnley Rife entering MMR; normal and sensitivity
1d_bc_3341MT_DS_A_P.SHP	Downstream tidal water level boundary at the Earnley Rife/MMR flap-valve

Table 3 – TUFLOW model files

3. Sensitivity Testing

3.1. Several sensitivity tests have been undertaken to ensure a full understanding of model behaviour. These have included:

- Overtopping rate increased by 10%;
- Manning's n roughness value +20%; and
- Manning's n roughness value -20%.

3.2. **Overtopping rate –** A 10% increase in overtopping rate results in an increase of no more than 0.04 m in some locations in the model. This does not translate to a significant change in the flood extents of the defended scenarios. Therefore, the unadjusted overtopping rates have been retained for the design scenarios.

3.3. **Manning's n values ±20% –** The surface roughness in the model represents typical conditions with respect to seasonal vegetative growth. However, vegetation can change significantly

between summer and winter, and therefore greatly affect the speed at which flood water may transit through an area.

3.3.1. The spatially varying roughness values applied in the model represent the mean values suggested by Chow 1959. However, it is recognised that there is variation for any of these values, typically representing seasonal changes, for example. To represent the potential seasonal variation, the Manning's n value has been varied by ±20% in four separate simulations (two each for the defended and undefended scenarios).

3.3.2. The results show that the variance of Manning's n by +20% and -20% results in flood levels varying over the floodplain for the undefended scenario by 0.01 m and -0.003 m respectively. For the defended scenario the Manning's n variance of +20% and -20% flood levels in the flood compartment near Earnley Rife change by -0.007 m and -0.012 m, respectively.

3.3.3. In all defended and undefended sensitivity scenarios the extent of flooding varies very slightly, but not significantly. On this basis, the seasonal growth and variation in vegetation is not considered to be significant and therefore, no further adjustment has been made or investigated.

4. Simulation Messages

4.1. The model simulation reports several checks and warnings which have been investigated and found not to have any implications for the model results. These checks and warnings are discussed subsequently.

4.1.1. The following message has been attributed to the setup of the model where there is a uniform grid resolution applied over the whole model domain:

- WARNING 2812 - No quadtree nesting, largest nesting level = 1

4.1.2. The following message has been attributed to the repeat occurrence of the SGS condition during model initialisation, but will not affect the model run or the model results:

- CHECK 2370 - Ignoring coincident point found in Z Shape SGS layer.

4.1.3. The following messages have been attributed to the automatic generation of the connections between the 2D domain and the 1D representation of the culvert into the MMR:

- WARNING 2118 - Lowered SX ZC Zpt by 0.34m to 1D node bed level.

4.1.4. The following message has been attributed to the initialisation of the SGS setup but does not affect the run of the model or the model results:

- CHECK 3520 - Found SGS cell face that has minimum Face elevation lower than the minimum cell centre elevations on both sides.

5. Results

5.1. The graphical model results are appended to this technical report and are listed in Table 4.

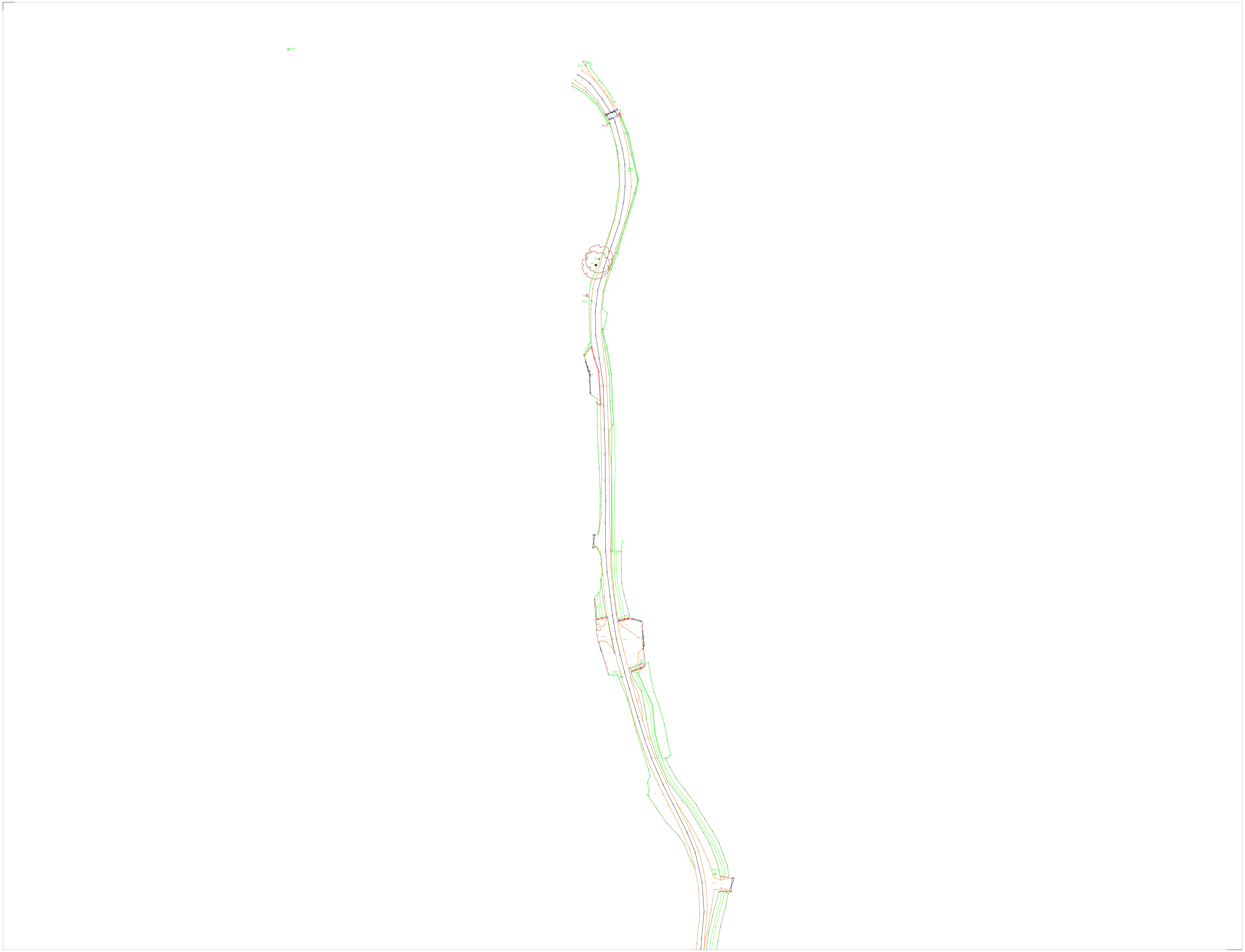
Model result no.	Scenario	Event	Scenario	Output	Max Level on site	Figure No.
1	Existing and Post-development	3.3%AEP, present day	Defended	Max depth & Max Level	n/a	A.1
2		0.5%AEP, present day			n/a	A.2
3		0.5%AEP plus climate change [2125]			n/a	A.3
4		0.5%AEP plus climate change [2125]	Undefended		4.43 mODN	A.4
5		1:1,000 year, present day	Defended		n/a	A.5

Table 4 - List of appended figures

6. Enclosed Documents

6.1. The following documents have been enclosed with this technical note:

- Topographic survey; and
- Modelling results.



Notes:

The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connection points before work starts. The Contractor is to comply in all respects with current Building Legislation, British Standard Specifications, Building Regulations, Construction (Design & Management) Regulations, Party Wall Act, etc. whether or not specifically stated on this drawing. This drawing must be read with and checked against any structural, geotechnical or other specialist documentation provided.

This drawing is not intended to show details of foundations, ground conditions or ground contaminants. Each area of ground relied upon to support any structure depicted (including drainage) must be investigated by the Contractor. A suitable method of foundation should be provided allowing for existing ground conditions. Any suspect or fluid ground, contaminates on or within the ground, should be further investigated by a suitable expert. Any earthwork constructions shown indicate typical slopes for guidance only & should be further investigated by a suitable expert.

Where existing trees are to be retained they should be subject to a full Arboricultural inspection for safety. All trees are to be planted so as to ensure they are a minimum of 5 metres from buildings and 3 metres from drainage and services. A suitable method of foundation is to be provided to accommodate the proposed tree planting. All tree types are provided as a guide only and a full Arboricultural survey to be conducted to determine the exact tree types should be completed.

Sketch proposals are for illustrative purposes only & as such are subject to detailed site investigation including ground conditions/contaminants, drainage, design & planning/density negotiations. Sketch proposals may be based upon enlargements of OS sheets & visual estimations of existing site features, accuracy will therefore need to be verified by survey. Sketch proposals have not been considered in respect of CDM Regulations.

Survey carried out to client specification and in accordance with RICS publication:
SURVEYS OF LAND , BUILDING & UTILITY SERVICES AT SCALES 1:500 & LARGER, 3rd EDITION.

Utility Services Location Note:

This survey has been carried out using a combination of observation and detection using electrolocation and ground probing radar equipment. Connections between reference points such as manholes are assumed to be straight unless bends are indicated. The accuracy is limited to the tolerances normally expected from the equipment used.

The following indications of completeness and accuracy are for guidance only:

In areas where there is a large concentration of services, the completeness will be between 80% and 90%. This will be reduced where there are obstructions at ground level.

Positional accuracy will vary with depth and pipe / duct material; an accuracy of +/- 150 mm is achievable in normal circumstances but this will be reduced for plastic pipes.

Existing information from historical plans is likely to be unreliable and is shown for guidance only.

Excavations in the area should be carried out with care and in accordance with HSG 47. No absolute guarantee of accuracy should be inferred from these plans.

The following text is an extract from Surveys of Land, Buildings and Utility Surveys at scales of 1:500 and Larger, 3rd Edition

"Electronic tracing is a reliable, method of locating buried services. ***On Heavy, built up sites 85% completeness is probably all that can be expected.*** *Plan accuracies of +/- 150mm may be achieved but this figure will depend on the depth of the service below ground level.* ***Where similar services run in close proximity, separation may be impossible. Successful tracing of non-metallic pipes may be limited.*** *Existing record information showing underground services is often incomplete and of doubtful accuracy. It should be regarded only as an indication and cannot be guaranteed"*

Standard Abbreviations

ACO	LINEAR DRAINAGE CHANNEL	Flat RF	FLAT ROOF LEVEL	RS	ROAD SIGN
AV	AIR VALVE	FH	FIRE HYDRANT	RSP	RAILWAY SIGNAL POST
A/R	ASSUMED ROUTE	FS	FLAG STAFF	RW	RETAINING WALL
BB	BELISH BEACON	G	GULLY	RWP	RAN WATER PIPE
BdL	BED LEVEL	GIS	GAS INLET POINT	Sap	SAPLING
BH	BOREHOLE	GP	GUIDE POST	SB	SIGN BOARD
Bol	BOLLARD	GPR	GROUND PROBING RADAR	Shlt	SHELTER
BP	BOUNDARY POST	Grl	GRILLE COVER	Si	SPUN IRON
B Pvg	BLOCK PAVING	GV	GAS VALVE COVER	SL	SOFFIT LEVEL
BRck	BICYCLE RACK	Hrl	HAND RAIL	Slt	SILT LEVEL
BS	BUS STOP	IC	INSPECTION COVER	SMP	SETTLEMENT MONITORING Pnt
BT	BRITISH TELECOM COVER	IL	INVERT LEVEL	SP	SIGN POST
BW	BRICK WALL	I/R	IRON RAILING FENCE	Spd Hump	SPEED HUMP
BWF	BARBED WIRE FENCE	KO	KERB OUTLET	SPt	SAMPLING POINT
CAP	CABLE WINDING MACHINE	Lby	LIFEBUOY	SS	STRUCTURE POINT
Cat	CATENARY LEVEL	Lck	LOCK GATE	ST	STAND PIPE / SUPPLY TAP
CATV	CABLE TV COVER	Ldr	LADDER	Sti	STILE
CB	CONTROL BOX	LOR	LOSS OF REFLECTION (gpr)	Stone Pvg	STONE PAVING SLABS
C/B	CLOSE BOARDED FENCE	LOS	LOSS OF SIGNAL (eml)	STP	STAND PIPE
CD	CHAMBER DEPTH	LP	LAMP POST	StPO	STAY POST
Cgd	CATTLE GRID	Mcy	MACHINERY	Stu	STUMP
Ci	CAST IRON	MH	MANHOLE	StW	STAYWIRE
CIP	CABLE INLET POINT	MgP	MOORING POST	SV	STOP VALVE
CL	COVER LEVEL	Mkr	MARKER POST	SW	STONE WALL
C/L	CHAIN LINK FENCE	MP	MILE POST	Tac	TACTILE PAVING
Col	COLUMN	MS	MILESTONE	TBM	TEMPORARY BENCH MARK
Conc	CONCRETE	MU	ELECTRIC MOTOR	TBol	BOLLARD (Dept' Transport)
Conc Pvg	CONCRETE PAVING	NVP	NO VISIBLE PIPE	TCB	TELEPHONE CALL BOX
CP	CATCHPIT	NP	NAME PLATE	TCP	TELEPHONE CALL POST
Cpe	CHILDRENS PLAY EQUIPMENT	OSA	OUTSIDE SURVEY AREA	TEL	TELECOM COVER
Cpy	BUILDING CANOPY	OSBM	OS BENCH MARK	ThL	THRESHOLD LEVEL
Cpsn	CAPSTAN	OGC	OVERGROUND CONDUIT	TL	TRAFFIC SIGNAL POST
CR	CRANE / HOIST	OHC	OVERHEAD CONDUIT	TM	TICKET MACHINE
Cul	CULVERT	OHE	OVERHEAD ELECTRIC	ToV	TOP OF VALVE LEVEL
Ct	CABLE TRAY/ TROUGH	OHG	OVERHEAD GANTRY	TP	TELEGRAPH POLE
CW	CONCRETE WALL	OHStruct	OVERHEAD STRUCTURE	Tpt	TRIAL PIT
Dav	Davit	OHT	OVERHEAD TELECOMS	Tr	TROUGH
DC	DUCT COVER	OHU	OVERHEAD UNKNOWN	UTA	UNABLE TO ACCESS
Di	DUCTILE IRON	P	POST	UTL	UNABLE TO LOCATE
(dilap)	DILAPIDATED	PB	POST BOX	UTR	UNABLE TO RAISE
(dis)	DISUSED	PC	SECURITY CAMERA	UTS	UNABLE TO SURVEY
DPC	DAMP PROOF COURSE	Pcg	PEDESTRIAN CROSSING	UTT	UNABLE TO TRACE (utilities)
DS	DIRECTION SIGN	PD	PIT DEPTH	VC	VITRIFIED CLAY
DSW	DRYSTONE WALL	P/F	PANEL FENCE	VDP	VEHICLE DETECTION PAD
Eav	EAVES LEVEL	PP	PETROL PUMP	VP	VENT PIPE
EIC	ELECTRICITY COVER	P/R	POST & RAIL FENCE	VW	VALVE WHEEL
EOT	END OF TRACE (utility)	Psk	PENSTOCK	WB	WEIGH BRIDGE
EP	ELECTRICITY POLE	PV	VERTICAL PIPE	WG	WATER GAUGE
ER	EARTH ROD	Pyl	PYLON	WL	WATER LEVEL
ESP	ELECTRICITY SUPPLY POINT	PZ	PIEZOMETER	WM	WATER METER
ESW	ELECTRICITY SWITCH BOX	Rdg	RIDGE LEVEL	W/M	WIRE MESH FENCE
EVC	ELECTRIC VEHICLE CHARGING	RE	RODDING EYE	WO	WASHOUT COVER
FB	FOOTBRIDGE	RG	RAIN GAUGE	WS	WIND SOCK POLE
FL	FLOOR LEVEL	RL	RIDGE LEVEL	WSR	WATER LEVEL SENSOR
FFL	FINISHED FLOOR LEVEL	RMP	RESRVOIR MONITORING Pnt		
Flgt	FLOOR LIGHT	RP	REFLECTOR POST		

	SURVEY EXTENTS	D=1.00m 1.00d	DEPTH INFORMATION
BT	BRITISH TELECOM	HW	HOT WATER
BT(r)	TAKEN FROM RECORDS	HW(r)	TAKEN FROM RECORDS
CTV	CATV CABLE	O/F	OPTIC FIBRE
CTV(r)	TAKEN FROM RECORDS	O/F(r)	TAKEN FROM RECORDS
CTV	CCTV CABLE	OIL	OIL PIPELINE
CTV(r)	TAKEN FROM RECORDS	OIL(r)	TAKEN FROM RECORDS
CW	COMBINED WATER	PWR	POWER FEATURE
CW(r)	TAKEN FROM RECORDS	SW	SURFACE WATER
DUC	EMPTY DUCT	SW(r)	TAKEN FROM RECORDS
DUC(r)	TAKEN FROM RECORDS	T	TELECOMMUNICATION CABLE
EA	EARTHING FEATURE	T(r)	TAKEN FROM RECORDS
EA(r)	TAKEN FROM RECORDS	TLM	TELEMETRY CABLE
E	ELECTRIC CABLE	TRA	TRAFFIC SIGNALS
E(r)	TAKEN FROM RECORDS	TRA(r)	TAKEN FROM RECORDS
FL	FUEL LINE	UK	UNKNOWN SERVICE
FL(r)	TAKEN FROM RECORDS	UK(r)	TAKEN FROM RECORDS
FW	FOUL WATER	VNT	VENT
FW(r)	TAKEN FROM RECORDS	VNT(r)	TAKEN FROM RECORDS
GAS	GAS	W	WATER
GAS(r)	TAKEN FROM RECORDS	W(r)	TAKEN FROM RECORDS
GPR	GPR FEATURE	HV	HV ELECTRIC
GPR(r)	TAKEN FROM RECORDS	HV(r)	TAKEN FROM RECORDS
Helium	HELIUM FEATURE	REF:GPR02	REFERENCE TO GPR DATA IN REPORT
Helium(r)	TAKEN FROM RECORDS		

PAS 128 Quality Levels:

SURVEY TYPE, QUALITY LEVELS AND ACCURACY	SUPPORTING DATA
VERIFICATION: QL-A: HORIZONTAL ± 50MM VERTICAL ± 25MM	HORIZONTAL & VERTICAL LOCATION OF THE TOP AND/OR BOTTOM OF THE ITEM.
DETECTION: QL-B4	A UTILITY WHICH IS SUSPECTED TO EXIST BUT HAS NOT BEEN DETECTED AND IS SHOWN AS AN ASSUMED ROUTE.
QL-B3/p: HORIZONTAL ±500MM	HORIZONTAL LOCATION ONLY OF THE UTILITY DETECTED BY ONE TECHNIQUE.
QL-B2/p: HORIZONTAL ±250MM/±40% VERTICAL ±40%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY ONE TECHNIQUE ONLY.
QL-B1/p: HORIZONTAL ±150MM/±15% VERTICAL ±15%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY MULTIPLE TECHNIQUES.
SITE RECONNAISSANCE: QL-C	---
DESKTOP: QL-D	---

NOTES: HORIZONTAL/VERTICAL VARIABLES BASED ON DETECTED LOCATION OF UTILITY
P = POST PROCESSING
REFER TO FULL PAS128 DOCUMENT FOR FURTHER INFORMATION

Sheet Layouts

1 2 3 4 5 6

N

Grid:
National Grid by GPS Observations to the OS Active Network (OSTN15)

Datum:
Ordnance Datum by GPS Observations to the OS Active Network (OSGM15)

Revision:	Amendments:	Date:	Name:
-	-	-	-
-	-	-	-
-	-	-	-
A	ORIGINAL ISSUE	MAR'23	JH

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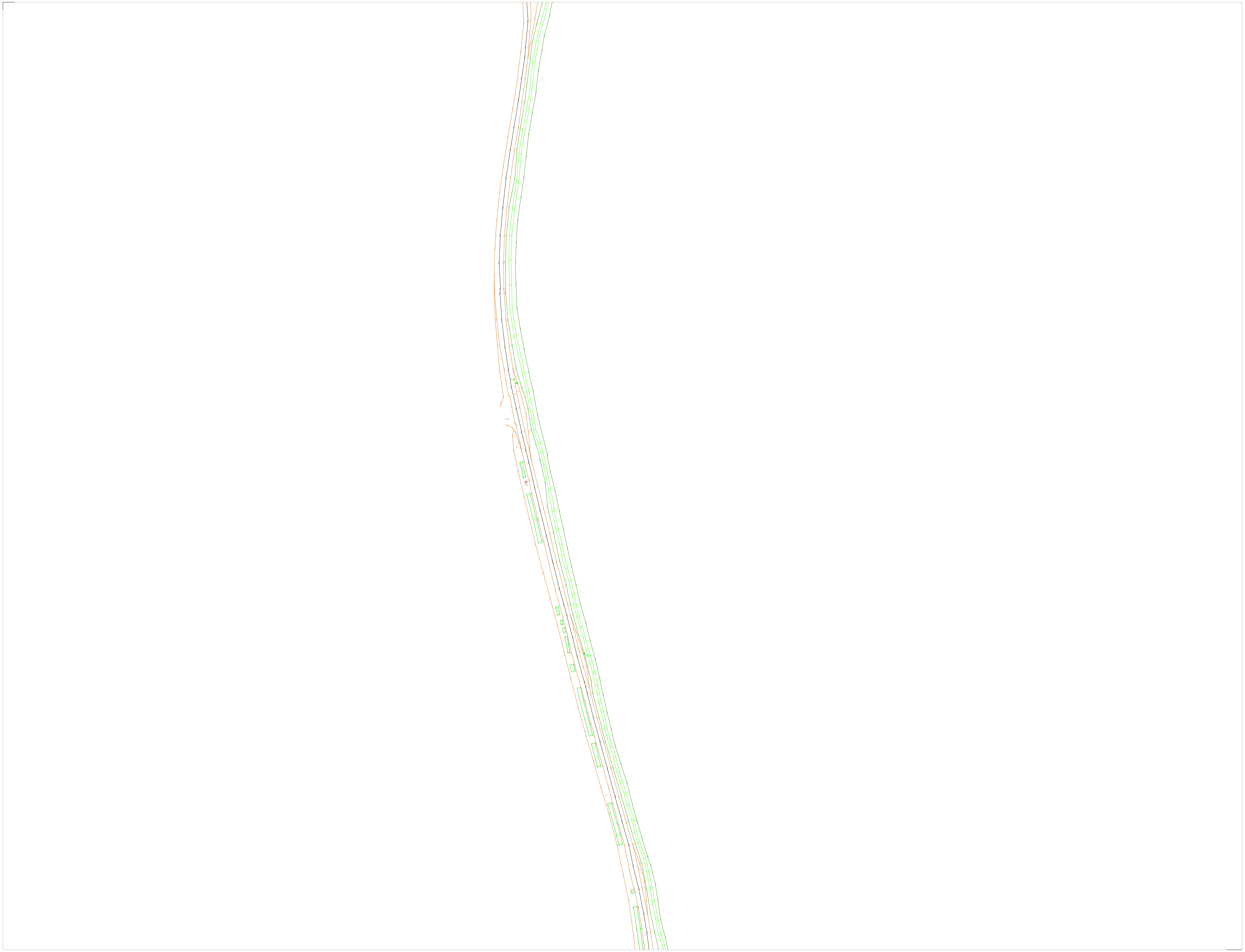
CLIENT:
Laister Planning Limited
Ground Floor, Oddfellows Hall, London Road
Chipping Norton, Oxfordshire
OX7 5QH

PROJECT:
Medmerry
Holiday Village

TITLE:
Topographical
Survey

Drawn: JH/MV/GK/MK	Checked: RJ
Date: March 2023	Scale: 1:500 @ A0 (1:200 Text)
Drg No: UAT3127_A	Sheet: 1 of 6

MAKING COMPLEX EASY



Notes:

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Sketch proposals are for illustrative purposes only & as such are subject to detailed site investigation including ground conditions/contaminants, drainage, design & planning/density negotiations. Sketch proposals may be based upon enlargements of OS sheets & visual estimations of existing site features, accuracy will therefore need to be verified by survey. Sketch proposals have not been considered in respect of CDM Regulations.

Survey carried out to client specification and in accordance with RICS publication:
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Positional accuracy will vary with depth and pipe / duct material; an accuracy of +/- 150 mm is achievable in normal circumstances but this will be reduced for plastic pipes.

Existing information from historical plans is likely to be unreliable and is shown for guidance only.

Excavations in the area should be carried out with care and in accordance with HSG 47. No absolute guarantee of accuracy should be inferred from these plans.

The following text is an extract from Surveys of Land, Buildings and Utility Surveys at scales of 1:500 and Larger, 3rd Edition

"Electronic tracing is a reliable, method of locating buried services. ***On Heavy, built up sites 85% completeness is probably all that can be expected.*** *Plan accuracies of +/- 150mm may be achieved but this figure will depend on the depth of the service below ground level.* ***Where similar services run in close proximity, separation may be impossible. Successful tracing of non-metallic pipes may be limited.*** *Existing record information showing underground services is often incomplete and of doubtful accuracy. It should be regarded only as an indication and cannot be guaranteed"*

Standard Abbreviations

ACO	LINEAR DRAINAGE CHANNEL	Flat RF	FLAT ROOF LEVEL	RS	ROAD SIGN
AV	AIR VALVE	FH	FIRE HYDRANT	RSP	RAILWAY SIGNAL POST
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BH	BOREHOLE	GP	GUIDE POST	SB	SIGN BOARD
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BT	BRITISH TELECOM COVER	IL	INVERT LEVEL	SP	SIGN POST
BW	BRICK WALL	I/R	IRON RAILING FENCE	Spd Hump	SPEED HUMP
BWF	BARBED WIRE FENCE	KO	KERB OUTLET	SPt	SAMPLING POINT
CAP	CABLE WINDING MACHINE	Lby	LIFEBUOY	SS	STRUCTURE POINT
Cat	CATENARY LEVEL	Lck	LOCK GATE	ST	STAND PIPE / SUPPLY TAP
CATV	CABLE TV COVER	Ldr	LADDER	Sti	STILE
CB	CONTROL BOX	LOR	LOSS OF REFLECTION (gpr)	Stone Pvg	STONE PAVING SLABS
C/B	CLOSE BOARDED FENCE	LOS	LOSS OF SIGNAL (eml)	STP	STAND PIPE
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Cgd	CATTLE GRID	Mcy	MACHINERY	Stu	STUMP
Ci	CAST IRON	MH	MANHOLE	StW	STAYWIRE
CIP	CABLE INLET POINT	MgP	MOORING POST	SV	STOP VALVE
CL	COVER LEVEL	Mkr	MARKER POST	SW	STONE WALL
C/L	CHAIN LINK FENCE	MP	MILE POST	Tac	TACTILE PAVING
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Cpsn	CAPSTAN	OGC	OVERGROUND CONDUIT	TL	TRAFFIC SIGNAL POST
CR	CRANE / HOIST	OHC	OVERHEAD CONDUIT	TM	TICKET MACHINE
Cul	CULVERT	OHE	OVERHEAD ELECTRIC	ToV	TOP OF VALVE LEVEL
Ct	CABLE TRAY/ TROUGH	OHG	OVERHEAD GANTRY	TP	TELEGRAPH POLE
CW	CONCRETE WALL	OHStruct	OVERHEAD STRUCTURE	Tpt	TRIAL PIT
Dav	Davit	OHT	OVERHEAD TELECOMS	Tr	TROUGH
DC	DUCT COVER	OHU	OVERHEAD UNKNOWN	UTA	UNABLE TO ACCESS
Di	DUCTILE IRON	P	POST	UTL	UNABLE TO LOCATE
(dilap)	DILAPIDATED	PB	POST BOX	UTR	UNABLE TO RAISE
(dis)	DISUSED	PC	SECURITY CAMERA	UTS	UNABLE TO SURVEY
DPC	DAMP PROOF COURSE	Pcg	PEDESTRIAN CROSSING	UTT	UNABLE TO TRACE (utilities)
DS	DIRECTION SIGN	PD	PIT DEPTH	VC	VITRIFIED CLAY
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GAS	GAS	W	WATER
GAS(r)	TAKEN FROM RECORDS	W(r)	TAKEN FROM RECORDS
GPR	GPR FEATURE	HV	HV ELECTRIC
GPR(r)	TAKEN FROM RECORDS	HV(r)	TAKEN FROM RECORDS
Helium	HELIUM FEATURE	REF:GPR02	REFERENCE TO GPR DATA IN REPORT
Helium(r)	TAKEN FROM RECORDS		

PAS 128 Quality Levels:

SURVEY TYPE, QUALITY LEVELS AND ACCURACY	SUPPORTING DATA
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SITE RECONNAISSANCE: QL-C	---
DESKTOP: QL-D	---

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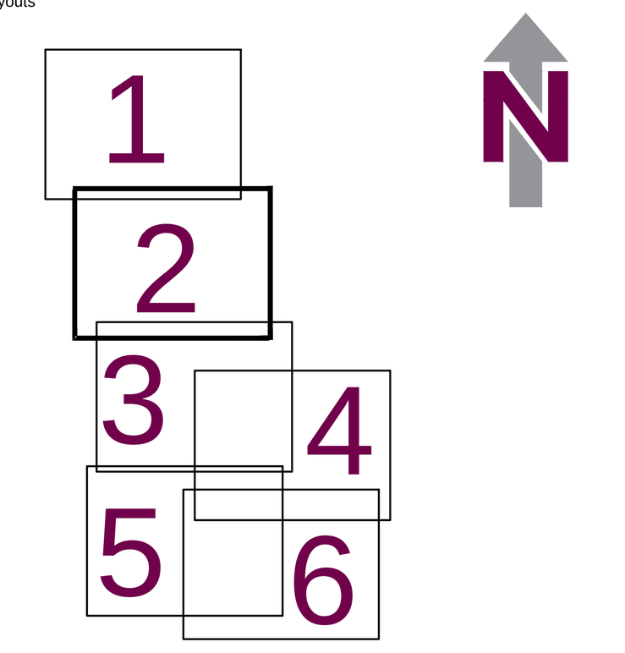
Sheet Layouts



Grid:
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Revision:	Amendments:	Date:	Name:
-	-	-	-
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A	ORIGINAL ISSUE	MAR'23	JH

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THE SURVEY ASSOCIATION AFFILIATE MEMBER
A TETRA TECH COMPANY
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Red Deer House, Dunston Business Village, Stafford Road, Dunston, Staffordshire, ST18 9AB

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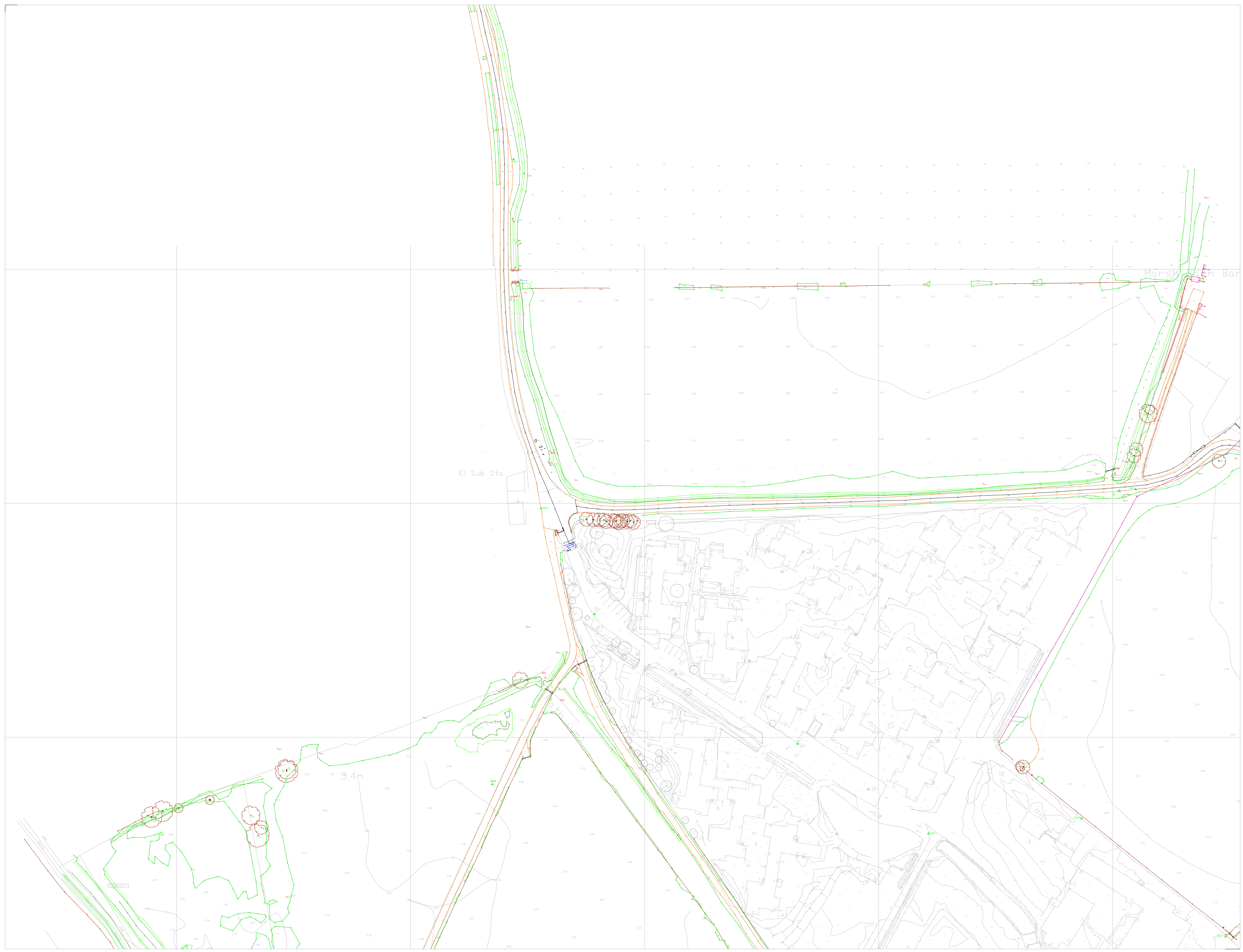

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GAS	GAS	W	WATER
GAS(r)	TAKEN FROM RECORDS	W(r)	TAKEN FROM RECORDS
GPR	GPR FEATURE	HV	HV ELECTRIC
GPR(r)	TAKEN FROM RECORDS	HV(r)	TAKEN FROM RECORDS
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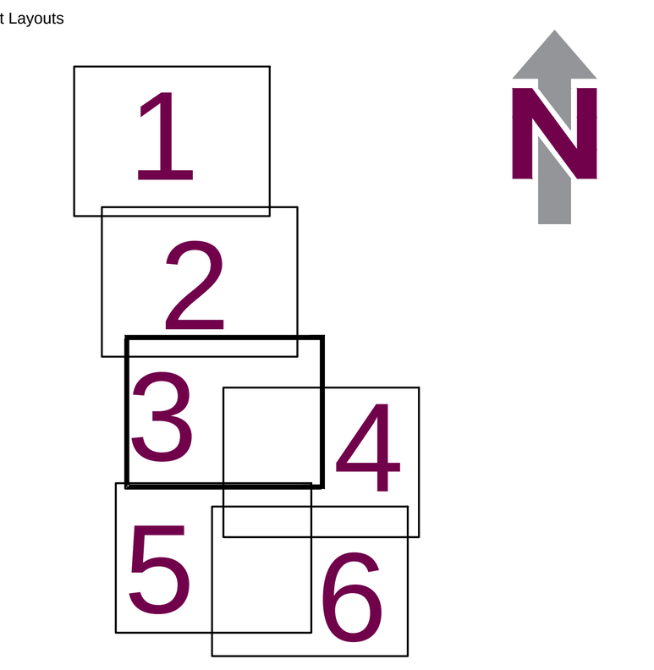

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-	-	-	-
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A	ORIGINAL ISSUE	MAR'23	JH

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A TETRA TECH COMPANY

THE SURVEY ASSOCIATION AFFILIATE MEMBER

Stafford - Clevedon - Milton Keynes - Warrington - Edinburgh
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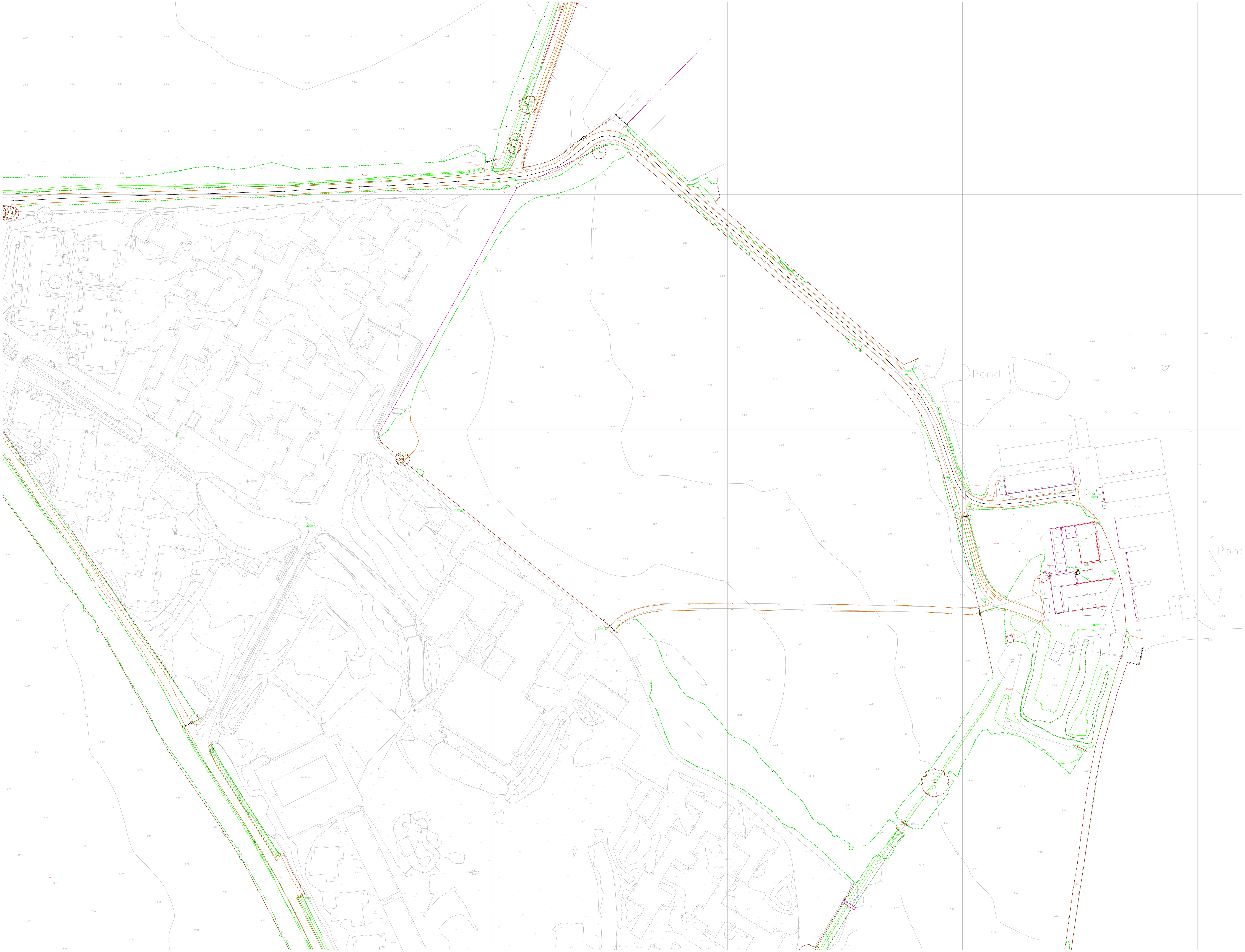

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Survey carried out to client specification and in accordance with RICS publication:
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Utility Services Location Note:

This survey has been carried out using a combination of observation and detection using electrolocation and ground probing radar equipment. Connections between reference points such as manholes are assumed to be straight unless bends are indicated. The accuracy is limited to the tolerances normally expected from the equipment used.

The following indications of completeness and accuracy are for guidance only:

In areas where there is a large concentration of services, the completeness will be between 80% and 90%. This will be reduced where there are obstructions at ground level.

Positional accuracy will vary with depth and pipe / duct material; an accuracy of +/- 150 mm is achievable in normal circumstances but this will be reduced for plastic pipes.

Existing information from historical plans is likely to be unreliable and is shown for guidance only.

Excavations in the area should be carried out with care and in accordance with HSG 47. No absolute guarantee of accuracy should be inferred from these plans.

The following text is an extract from Surveys of Land, Buildings and Utility Surveys at scales of 1:500 and Larger, 3rd Edition

"Electronic tracing is a reliable, method of locating buried services. ***On Heavy, built up sites 85% completeness is probably all that can be expected.*** *Plan accuracies of +/- 150mm may be achieved but this figure will depend on the depth of the service below ground level.* ***Where similar services run in close proximity, separation may be impossible. Successful tracing of non-metallic pipes may be limited.*** *Existing record information showing underground services is often incomplete and of doubtful accuracy. It should be regarded only as an indication and cannot be guaranteed"*

Standard Abbreviations

ACO	LINEAR DRAINAGE CHANNEL	Flat RF	FLAT ROOF LEVEL	RS	ROAD SIGN
AV	AIR VALVE	FH	FIRE HYDRANT	RSP	RAILWAY SIGNAL POST
A/R	ASSUMED ROUTE	FS	FLAG STAFF	RW	RETAINING WALL
BB	BELISH BEACON	G	GULLY	RWP	RAN WATER PIPE
BdL	BED LEVEL	GIS	GAS INLET POINT	Sap	SAPLING
BH	BOREHOLE	GP	GUIDE POST	SB	SIGN BOARD
Bol	BOLLARD	GPR	GROUND PROBING RADAR	Shlt	SHELTER
BP	BOUNDARY POST	Grl	GRILLE COVER	Si	SPUN IRON
B Pvg	BLOCK PAVING	GV	GAS VALVE COVER	SL	SOFFIT LEVEL
BRck	BICYCLE RACK	Hrl	HAND RAIL	Slt	SILT LEVEL
BS	BUS STOP	IC	INSPECTION COVER	SMP	SETTLEMENT MONITORING Pnt
BT	BRITISH TELECOM COVER	IL	INVERT LEVEL	SP	SIGN POST
BW	BRICK WALL	I/R	IRON RAILING FENCE	Spd Hump	SPEED HUMP
BWF	BARBED WIRE FENCE	KO	KERB OUTLET	SPt	SAMPLING POINT
CAP	CABLE WINDING MACHINE	Lby	LIFEBUOY	SS	STRUCTURE POINT
Cat	CATENARY LEVEL	Lck	LOCK GATE	ST	STAND PIPE / SUPPLY TAP
CATV	CABLE TV COVER	Ldr	LADDER	Sti	STILE
CB	CONTROL BOX	LOR	LOSS OF REFLECTION (gpr)	Stone Pvg	STONE PAVING SLABS
C/B	CLOSE BOARDED FENCE	LOS	LOSS OF SIGNAL (eml)	STP	STAND PIPE
CD	CHAMBER DEPTH	LP	LAMP POST	StPO	STAY POST
Cgd	CATTLE GRID	Mcy	MACHINERY	Stu	STUMP
Ci	CAST IRON	MH	MANHOLE	StW	STAYWIRE
CIP	CABLE INLET POINT	MgP	MOORING POST	SV	STOP VALVE
CL	COVER LEVEL	Mkr	MARKER POST	SW	STONE WALL
C/L	CHAIN LINK FENCE	MP	MILE POST	Tac	TACTILE PAVING
Col	COLUMN	MS	MILESTONE	TBM	TEMPORARY BENCH MARK
Conc	CONCRETE	MU	ELECTRIC MOTOR	TBol	BOLLARD (Dept' Transport)
Conc Pvg	CONCRETE PAVING	NVP	NO VISIBLE PIPE	TCB	TELEPHONE CALL BOX
CP	CATCHPIT	NP	NAME PLATE	TCP	TELEPHONE CALL POST
Cpe	CHILDRENS PLAY EQUIPMENT	OSA	OUTSIDE SURVEY AREA	TEL	TELECOM COVER
Cpy	BUILDING CANOPY	OSBM	OS BENCH MARK	ThL	THRESHOLD LEVEL
Cpsn	CAPSTAN	OGC	OVERGROUND CONDUIT	TL	TRAFFIC SIGNAL POST
CR	CRANE / HOIST	OHC	OVERHEAD CONDUIT	TM	TICKET MACHINE
Cul	CULVERT	OHE	OVERHEAD ELECTRIC	ToV	TOP OF VALVE LEVEL
Ct	CABLE TRAY/ TROUGH	OHG	OVERHEAD GANTRY	TP	TELEGRAPH POLE
CW	CONCRETE WALL	OHStruct	OVERHEAD STRUCTURE	Tpt	TRIAL PIT
Dav	Davit	OHT	OVERHEAD TELECOMS	Tr	TROUGH
DC	DUCT COVER	OHU	OVERHEAD UNKNOWN	UTA	UNABLE TO ACCESS
Di	DUCTILE IRON	P	POST	UTL	UNABLE TO LOCATE
(dilap)	DILAPIDATED	PB	POST BOX	UTR	UNABLE TO RAISE
(dis)	DISUSED	PC	SECURITY CAMERA	UTS	UNABLE TO SURVEY
DPC	DAMP PROOF COURSE	Pcg	PEDESTRIAN CROSSING	UTT	UNABLE TO TRACE (utilities)
DS	DIRECTION SIGN	PD	PIT DEPTH	VC	VITRIFIED CLAY
DSW	DRYSTONE WALL	P/F	PANEL FENCE	VDP	VEHICLE DETECTION PAD
Eav	EAVES LEVEL	PP	PETROL PUMP	VP	VENT PIPE
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ESP	ELECTRICITY SUPPLY POINT	PZ	PIEZOMETER	WM	WATER METER
ESW	ELECTRICITY SWITCH BOX	Rdg	RIDGE LEVEL	W/M	WIRE MESH FENCE
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BT(r)	TAKEN FROM RECORDS	HW(r)	TAKEN FROM RECORDS
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CTV(r)	TAKEN FROM RECORDS	O/F(r)	TAKEN FROM RECORDS
CTV	CCTV CABLE	OIL	OIL PIPELINE
CTV(r)	TAKEN FROM RECORDS	OIL(r)	TAKEN FROM RECORDS
CW	COMBINED WATER	PWR	POWER FEATURE
CW(r)	TAKEN FROM RECORDS	SW	SURFACE WATER
DUC	EMPTY DUCT	SW(r)	TAKEN FROM RECORDS
DUC(r)	TAKEN FROM RECORDS	T	TELECOMMUNICATION CABLE
EA	EARTHING FEATURE	T(r)	TAKEN FROM RECORDS
EA(r)	TAKEN FROM RECORDS	TLM	TELEMETRY CABLE
E	ELECTRIC CABLE	TRA	TRAFFIC SIGNALS
E(r)	TAKEN FROM RECORDS	TRA(r)	TAKEN FROM RECORDS
FL	FUEL LINE	UK	UNKNOWN SERVICE
FL(r)	TAKEN FROM RECORDS	UK(r)	TAKEN FROM RECORDS
FW	FOUL WATER	VNT	VENT
FW(r)	TAKEN FROM RECORDS	VNT(r)	TAKEN FROM RECORDS
GAS	GAS	W	WATER
GAS(r)	TAKEN FROM RECORDS	W(r)	TAKEN FROM RECORDS
GPR	GPR FEATURE	HV	HV ELECTRIC
GPR(r)	TAKEN FROM RECORDS	HV(r)	TAKEN FROM RECORDS
Helium	HELIUM FEATURE	REF:GPR02	REFERENCE TO GPR DATA IN REPORT
Helium(r)	TAKEN FROM RECORDS		

PAS 128 Quality Levels:

SURVEY TYPE, QUALITY LEVELS AND ACCURACY	SUPPORTING DATA
VERIFICATION: QL-A: HORIZONTAL ± 50MM VERTICAL ± 25MM	HORIZONTAL & VERTICAL LOCATION OF THE TOP AND/OR BOTTOM OF THE ITEM.
DETECTION: QL-B4	A UTILITY WHICH IS SUSPECTED TO EXIST BUT HAS NOT BEEN DETECTED AND IS SHOWN AS AN ASSUMED ROUTE.
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SITE RECONNAISSANCE: QL-C	---
DESKTOP: QL-D	---

NOTES: HORIZONTAL/VERTICAL VARIABLES BASED ON DETECTED LOCATION OF UTILITY
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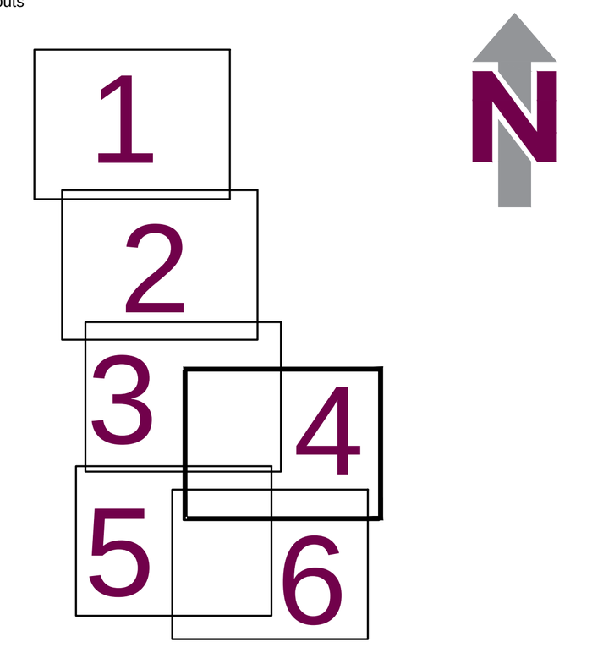
Sheet Layouts



Grid:	Datum:
National Grid by GPS Observations to the OS Active Network (OSTN15)	Ordnance Datum by GPS Observations to the OS Active Network (OSGM15)

Revision:	Amendments:	Date:	Name:
-	-	-	-
-	-	-	-
-	-	-	-
A	ORIGINAL ISSUE	MAR'23	JH

MAKING COMPLEX EASY
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Red Deer House, Dunston Business Village, Stafford Road, Dunston, Staffordshire, ST18 9AB

CLIENT:
Laister Planning Limited
Ground Floor, Oddfellows Hall, London Road
Chipping Norton, Oxfordshire
OX7 5QH

PROJECT:
Medmerry
Holiday Village

TITLE:
Topographical
Survey

Drawn: JH/MV/GK/MK	Checked: RJ
Date: March 2023	Scale: 1:500 @ A0 (1:200 Text)
Drg No: UAT3127_A	Sheet: 4 of 6

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Notes:

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	SURVEY EXTENTS	D=1.00m 1.00d	DEPTH INFORMATION
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BT(r)	TAKEN FROM RECORDS	HW(r)	TAKEN FROM RECORDS
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CTV(r)	TAKEN FROM RECORDS	O/F(r)	TAKEN FROM RECORDS
CTV	CCTV CABLE	OIL	OIL PIPELINE
CTV(r)	TAKEN FROM RECORDS	OIL(r)	TAKEN FROM RECORDS
CW	COMBINED WATER	PWR	POWER FEATURE
CW(r)	TAKEN FROM RECORDS	SW	SURFACE WATER
DUC	EMPTY DUCT	SW(r)	TAKEN FROM RECORDS
DUC(r)	TAKEN FROM RECORDS	T	TELECOMMUNICATION CABLE
EA	EARTHING FEATURE	T(r)	TAKEN FROM RECORDS
EA(r)	TAKEN FROM RECORDS	TLM	TELEMETRY CABLE
E	ELECTRIC CABLE	TRA	TRAFFIC SIGNALS
E(r)	TAKEN FROM RECORDS	TRA(r)	TAKEN FROM RECORDS
FL	FUEL LINE	UK	UNKNOWN SERVICE
FL(r)	TAKEN FROM RECORDS	UK(r)	TAKEN FROM RECORDS
FW	FOUL WATER	VNT	VENT
FW(r)	TAKEN FROM RECORDS	VNT(r)	TAKEN FROM RECORDS
GAS	GAS	W	WATER
GAS(r)	TAKEN FROM RECORDS	W(r)	TAKEN FROM RECORDS
GPR	GPR FEATURE	HV	HV ELECTRIC
GPR(r)	TAKEN FROM RECORDS	HV(r)	TAKEN FROM RECORDS
Helium	HELIUM FEATURE	REF:GPR02	REFERENCE TO GPR DATA IN REPORT
Helium(r)	TAKEN FROM RECORDS		

PAS 128 Quality Levels:

SURVEY TYPE, QUALITY LEVELS AND ACCURACY	SUPPORTING DATA
VERIFICATION: QL-A: HORIZONTAL ± 50MM VERTICAL ± 25MM	HORIZONTAL & VERTICAL LOCATION OF THE TOP AND/OR BOTTOM OF THE ITEM.
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SITE RECONNAISSANCE: QL-C	---
DESKTOP: QL-D	---

NOTES: HORIZONTAL/VERTICAL VARIABLES BASED ON DETECTED LOCATION OF UTILITY
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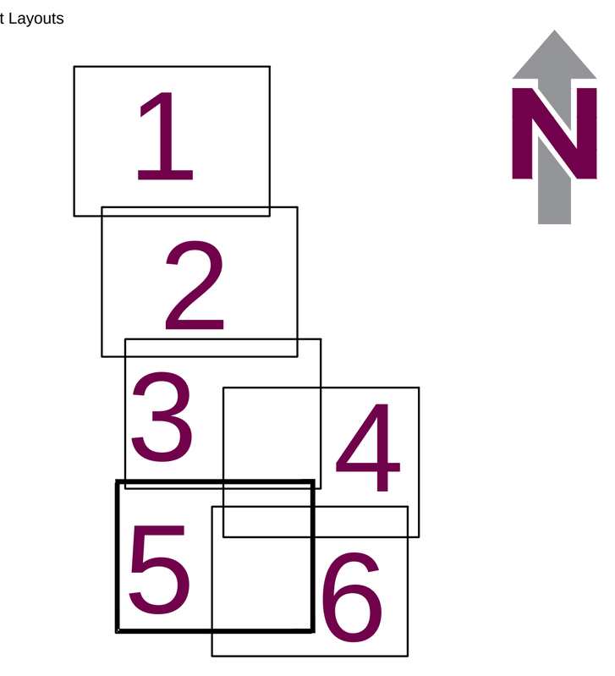
Sheet Layouts



Grid:	Datum:
National Grid by GPS Observations to the OS Active Network (OSTN15)	Ordnance Datum by GPS Observations to the OS Active Network (OSGM15)

Revision:	Amendments:	Date:	Name:
-	-	-	-
-	-	-	-
-	-	-	-
A	ORIGINAL ISSUE	MAR'23	JH

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MAKING COMPLEX EASY
THE SURVEY ASSOCIATION AFFILIATE MEMBER
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T: 0800 917 8227 E: rps.survey@rpsgroup.com www.rpsgroup.com
Red Deer House, Dunston Business Village, Stafford Road, Dunston, Staffordshire, ST18 9AB

CLIENT:
Laister Planning Limited
Ground Floor, Oddfellows Hall, London Road
Chipping Norton, Oxfordshire
OX7 5QH

PROJECT:
Medmerry
Holiday Village

TITLE:
Topographical
Survey

Drawn: JH/MV/GK/MK	Checked: RJ
Date: March 2023	Scale: 1:500 @ A0 (1:200 Text)
Drg No: UAT3127_A	Sheet: 5 of 6

MAKING
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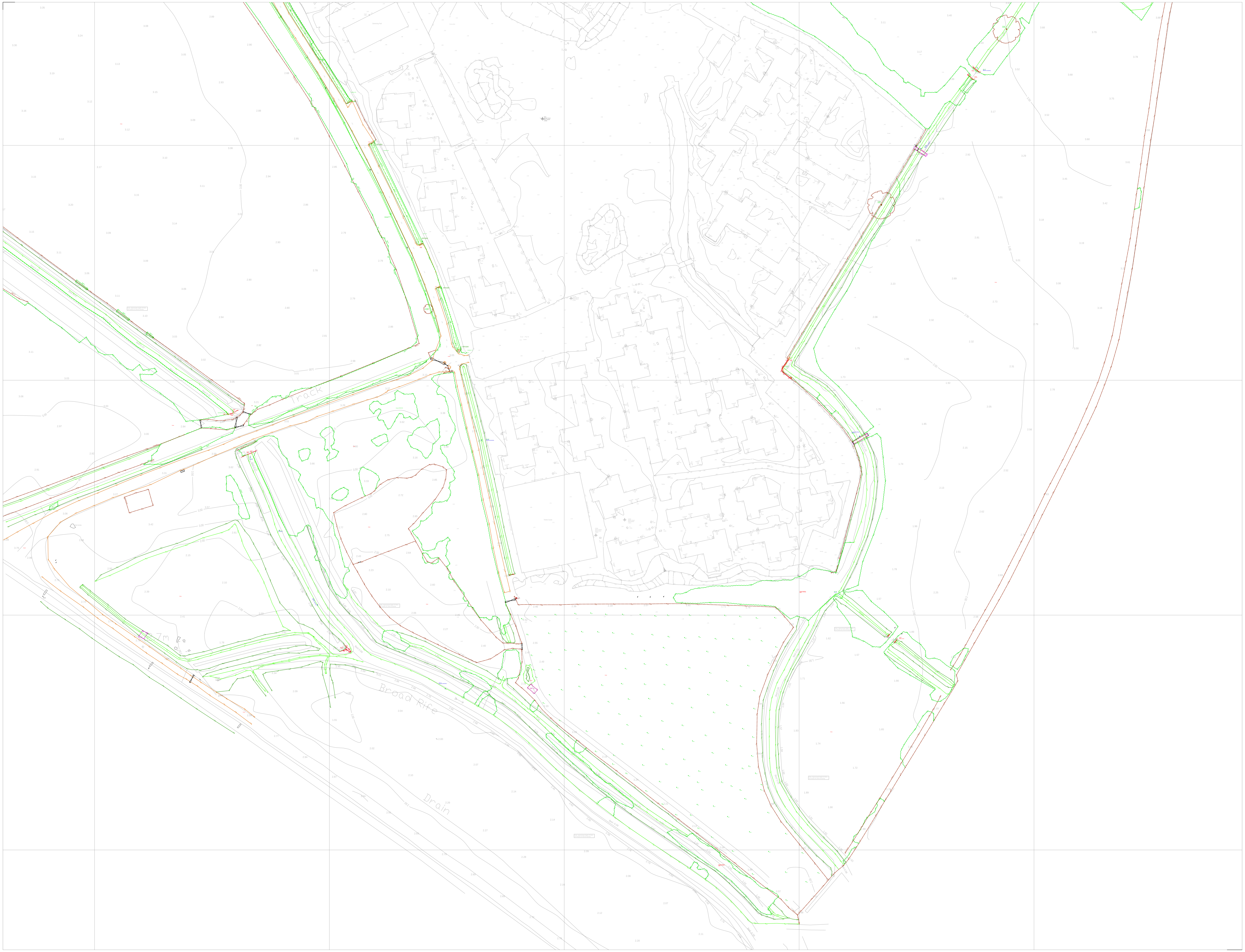

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Positional accuracy will vary with depth and pipe / duct material; an accuracy of +/- 150 mm is achievable in normal circumstances but this will be reduced for plastic pipes.

Existing information from historical plans is likely to be unreliable and is shown for guidance only.

Excavations in the area should be carried out with care and in accordance with HSG 47. No absolute guarantee of accuracy should be inferred from these plans.

The following text is an extract from Surveys of Land, Buildings and Utility Surveys at scales of 1:500 and Larger, 3rd Edition

"Electronic tracing is a reliable, method of locating buried services. ***On Heavy, built up sites 85% completeness is probably all that can be expected.*** *Plan accuracies of +/- 150mm may be achieved but this figure will depend on the depth of the service below ground level.* ***Where similar services run in close proximity, separation may be impossible. Successful tracing of non-metallic pipes may be limited.*** *Existing record information showing underground services is often incomplete and of doubtful accuracy. It should be regarded only as an indication and cannot be guaranteed"*

Standard Abbreviations

ACO LINEAR DRAINAGE CHANNEL; AV AIR VALVE; A/R ASSUMED ROUTE; BB BELISH BEACON; BdL BED LEVEL; BH BOREHOLE; Bol BOLLARD; BP BOUNDARY POST; B Pvg BLOCK PAVING; BRck BICYCLE RACK; BS BUS STOP; BT BRITISH TELECOM COVER; BW BRICK WALL; BWF BARBED WIRE FENCE; CAP CABLE WINDING MACHINE; Cat CATENARY LEVEL; CATV CABLE TV COVER; CB CONTROL BOX; C/B CLOSE BOARDED FENCE; CD CHAMBER DEPTH; Cgd CATTLE GRID; CI CAST IRON; CIP CABLE INLET POINT; CL COVER LEVEL; C/L CHAIN LINK FENCE; Col COLUMN; Conc CONCRETE; Conc Pvg CONCRETE PAVING; CP CATCHPIT; Cpe CHILDRENS PLAY EQUIPMENT; Cpy BUILDING CANOPY; Cpsn CAPSTAN; CR CRANE / HOIST; Cul CULVERT; Ct CABLE TRAY/ TROUGH; CW CONCRETE WALL; Dav Davit; DC DUCT COVER; DI DUCTILE IRON; (dilap) DILAPIDATED; (dis) DISUSED; DPC DAMP PROOF COURSE; DS DIRECTION SIGN; DSW DRYSTONE WALL; Eav EAVES LEVEL; EIC ELECTRICITY COVER; EOT END OF TRACE (utility); EP ELECTRICITY POLE; ER EARTH ROD; ESP ELECTRICITY SUPPLY POINT; ESW ELECTRICITY SWITCH BOX; EVC ELECTRIC VEHICLE CHARGING; FB FOOTBRIDGE; FL FLOOR LEVEL; FFL FINISHED FLOOR LEVEL; Flgt FLOOR LIGHT

Flat RF FLAT ROOF LEVEL; FH FIRE HYDRANT; FS FLAG STAFF; G GULLY; GIS GAS INLET POINT; GP GUIDE POST; GPR GROUND PROBING RADAR; Grl GRILLE COVER; GV GAS VALVE COVER; HR HAND RAIL; IC INSPECTION COVER; IL INVERT LEVEL; I/R IRON RAILING FENCE; KO KERB OUTLET; Lby LIFEBUOY; Lck LOCK GATE; Ldr LADDER; LOR LOSS OF REFLECTION (gpr); LOS LOSS OF SIGNAL (eml); LP LAMP POST; Mcy MACHINERY; MH MANHOLE; MgP MOORING POST; Mkr MARKER POST; MP MILE POST; MS MILESTONE; MU ELECTRIC MOTOR; NVP NO VISIBLE PIPE; NP NAME PLATE; OSA OUTSIDE SURVEY AREA; OSBM OS BENCH MARK; OGC OVERGROUND CONDUIT; OHC OVERHEAD CONDUIT; OHE OVERHEAD ELECTRIC; OHG OVERHEAD GANTRY; OHStruct OVERHEAD STRUCTURE; OHT OVERHEAD TELECOMS; OHU OVERHEAD UNKNOWN; P POST; PB POST BOX; PC SECURITY CAMERA; Pcg PEDESTRIAN CROSSING; PD PIT DEPTH; P/F PANEL FENCE; PP PETROL PUMP; P/R POST & RAIL FENCE; Psk PENSTOCK; PV VERTICAL PIPE; Pyl PYLON; PZ PIEZOMETER; Rdg RIDGE LEVEL; RE RODDING EYE; RG RAIN GAUGE; RL RIDGE LEVEL; RMP RESRVOIR MONITORING Pnt; RP REFLECTOR POST

RS ROAD SIGN; RSP RAILWAY SIGNAL POST; RW RETAINING WALL; RWP RAN WATER PIPE; Sap SAPLING; SB SIGN BOARD; Shlt SHELTER; SI SPUN IRON; SL SOFFIT LEVEL; Slt SILT LEVEL; SMP SETTLEMENT MONITORING Pnt; SP SIGN POST; Spd Hump SPEED HUMP; SPt SAMPLING POINT; SS STRUCTURE POINT; ST STAND PIPE / SUPPLY TAP; Sti STILE; Stone Pvg STONE PAVING SLABS; STP STAND PIPE; StPD STAY POST; Stu STUMP; StW STAYWIRE; SV STOP VALVE; SW STONE WALL; Tac TACTILE PAVING; TBM TEMPORARY BENCH MARK; TBol BOLLARD (Dept' Transport); TCB TELEPHONE CALL BOX; TCP TELEPHONE CALL POST; TEL TELECOM COVER; ThL THRESHOLD LEVEL; TL TRAFFIC SIGNAL POST; TM TICKET MACHINE; ToV TOP OF VALVE LEVEL; TP TELEGRAPH POLE; Tpt TRIAL PIT; Tr TROUGH; UTA UNABLE TO ACCESS; UTL UNABLE TO LOCATE; UTR UNABLE TO RAISE; UTS UNABLE TO SURVEY; UTT UNABLE TO TRACE (utilities); VC VITRIFIED CLAY; VDP VEHICLE DETECTION PAD; VP VENT PIPE; VW VALVE WHEEL; WB WEIGH BRIDGE; WG WATER GAUGE; WL WATER LEVEL; WM WATER METER; W/M WIRE MESH FENCE; WO WASHOUT COVER; WS WIND SOCK POLE; WSR WATER LEVEL SENSOR

SURVEY EXTENTS — D=1.00m 1.00d DEPTH INFORMATION

BT BRITISH TELECOM; BT(r) TAKEN FROM RECORDS; CTV CATV CABLE; CTV(r) TAKEN FROM RECORDS; CTV CCTV CABLE; CTV(r) TAKEN FROM RECORDS; CW COMBINED WATER; CW(r) TAKEN FROM RECORDS; DUC EMPTY DUCT; DUC(r) TAKEN FROM RECORDS; EA EARTHING FEATURE; EA(r) TAKEN FROM RECORDS; E ELECTRIC CABLE; E(r) TAKEN FROM RECORDS; FL FUEL LINE; FL(r) TAKEN FROM RECORDS; FW FOUL WATER; FW(r) TAKEN FROM RECORDS; GAS GAS; GAS(r) TAKEN FROM RECORDS; GPR GPR FEATURE; GPR(r) TAKEN FROM RECORDS; Helium HELIUM FEATURE; Helium(r) TAKEN FROM RECORDS

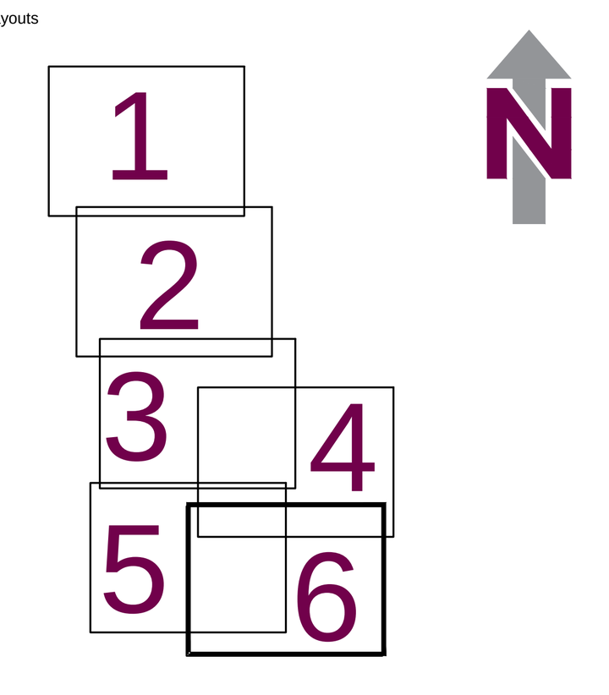
HW HOT WATER; HW(r) TAKEN FROM RECORDS; O/F OPTIC FIBRE; O/F(r) TAKEN FROM RECORDS; OIL OIL PIPELINE; OIL(r) TAKEN FROM RECORDS; PWR POWER FEATURE; SW SURFACE WATER; SW(r) TAKEN FROM RECORDS; T TELECOMMUNICATION CABLE; T(r) TAKEN FROM RECORDS; TLM TELEMETRY CABLE; TRA TRAFFIC SIGNALS; TRA(r) TAKEN FROM RECORDS; UK UNKNOWN SERVICE; UK(r) TAKEN FROM RECORDS; VNT VENT; VNT(r) TAKEN FROM RECORDS; W WATER; W(r) TAKEN FROM RECORDS; HV HV ELECTRIC; HV(r) TAKEN FROM RECORDS; REF:GPR02 REFERENCE TO GPR DATA IN REPORT

PAS 128 Quality Levels:

SURVEY TYPE, QUALITY LEVELS AND ACCURACY	SUPPORTING DATA
VERIFICATION: QL-A: HORIZONTAL ± 50MM VERTICAL ± 25MM	HORIZONTAL & VERTICAL LOCATION OF THE TOP AND/OR BOTTOM OF THE ITEM.
DETECTION: QL-B4	A UTILITY WHICH IS SUSPECTED TO EXIST BUT HAS NOT BEEN DETECTED AND IS SHOWN AS AN ASSUMED ROUTE.
QL-B3/p: HORIZONTAL ±500MM	HORIZONTAL LOCATION ONLY OF THE UTILITY DETECTED BY ONE TECHNIQUE.
QL-B2/p: HORIZONTAL ±250MM/±40% VERTICAL ±40%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY ONE TECHNIQUE ONLY.
QL-B1/p: HORIZONTAL ±150MM/±15% VERTICAL ±15%	HORIZONTAL AND VERTICAL LOCATION OF UTILITY DETECTED BY MULTIPLE TECHNIQUES.
SITE RECONNAISSANCE: QL-C	---
DESKTOP: QL-D	---

NOTES: HORIZONTAL/VERTICAL VARIABLES BASED ON DETECTED LOCATION OF UTILITY
P = POST PROCESSING
REFER TO FULL PAS128 DOCUMENT FOR FURTHER INFORMATION

Sheet Layouts



Grid: National Grid by GPS Observations to the OS Active Network (OSTN15)

Datum: Ordnance Datum by GPS Observations to the OS Active Network (OSGM15)

Revision:	Amendments:	Date:	Name:
-	-	-	-
-	-	-	-
-	-	-	-
A	ORIGINAL ISSUE	MAR'23	JH

rps MAKING COMPLEX EASY
THE SURVEY ASSOCIATION AFFILIATE MEMBER
A TETRA TECH COMPANY
Stafford - Clevedon - Milton Keynes - Warrington - Edinburgh
T: 0800 917 8227 E: rps.survey@rpsgroup.com www.rpsgroup.com
Red Deer House, Dunston Business Village, Stafford Road, Dunston, Staffordshire, ST18 9AB

CLIENT:
Laister Planning Limited
Ground Floor, Oddfellows Hall, London Road
Chipping Norton, Oxfordshire
OX7 5QH

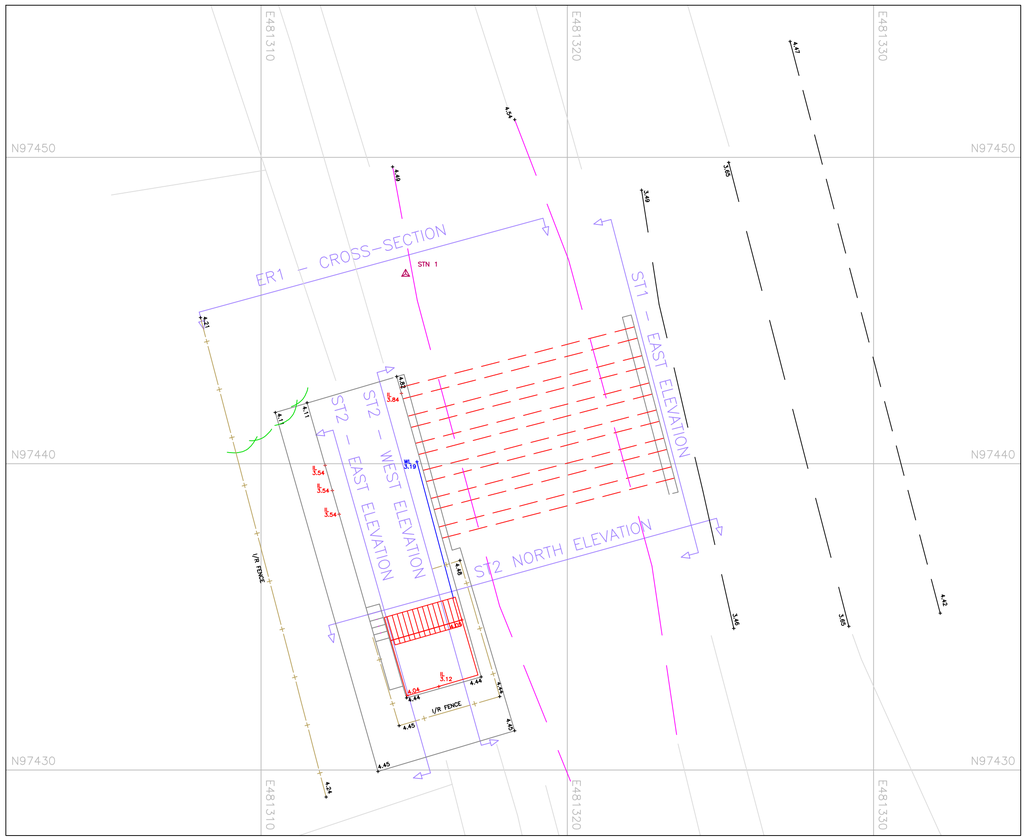
PROJECT:
Medmerry
Holiday Village

TITLE:
Topographical
Survey

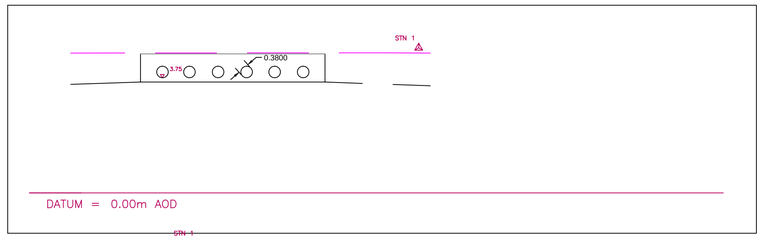
Drawn: JH/MV/GK/MK	Checked: RJ
Date: March 2023	Scale: 1:500 @ A0 (1:200 Text)
Drg No: UAT3127_A	Sheet: 6 of 6

MAKING
COMPLEX
EASY

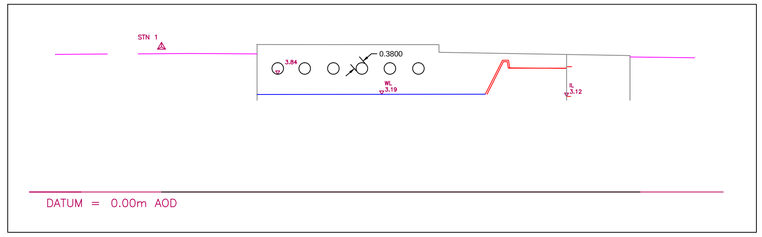
PLAN OF STRUCTURES ST2 AND ST1



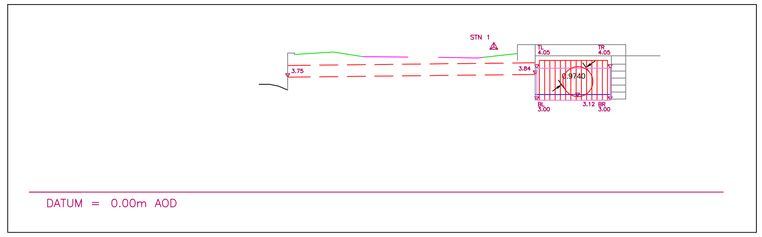
ST1 EAST ELEVATION



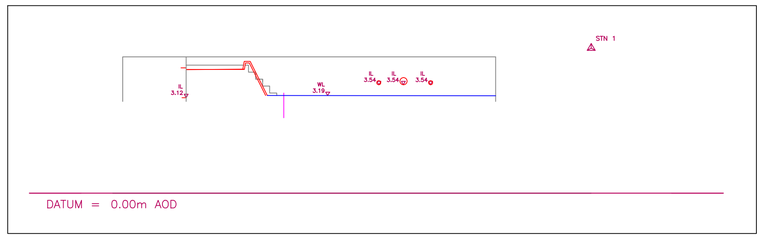
ST2 WEST ELEVATION



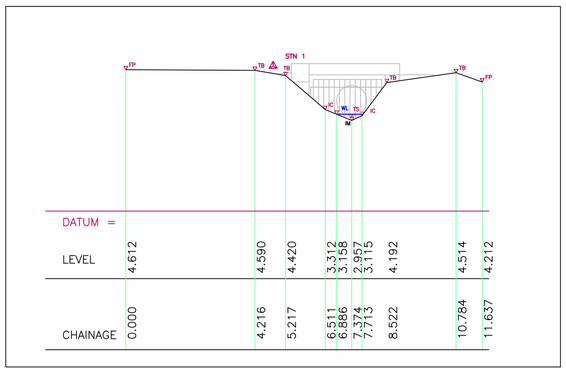
ST2 NORTH ELEVATION



ST2 EAST ELEVATION



ER1 – CROSS-SECTION



KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
LT	Left Top
RT	Right Top
LB	Left Bottom
RB	Right Bottom
BL	Base Level
IL	Invert Level
TS	Top of Silt
FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
TP	Telegraph pole
B/W	Barbed wire fence
C/B	Close boarded fence
C/L	Chain link fence
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

Notes

Where underground services are shown it is advisable to check these details against statutory authority records before proceeding with any design.

All information contained in this drawing (including digital data) should be checked and verified prior to any fabrication or construction.

Grid co–ordinates and levels are based upon the Ordnance Survey

REVISION	DESCRIPTION	DATE

MERIDIAN
Land surveying and design

WEST HORSLEY PLACE
EPSOM ROAD, WEST HORSLEY KT24 6AW
Tel: 07948 603936 – Email: peter@meridiansurvey.co.uk

CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

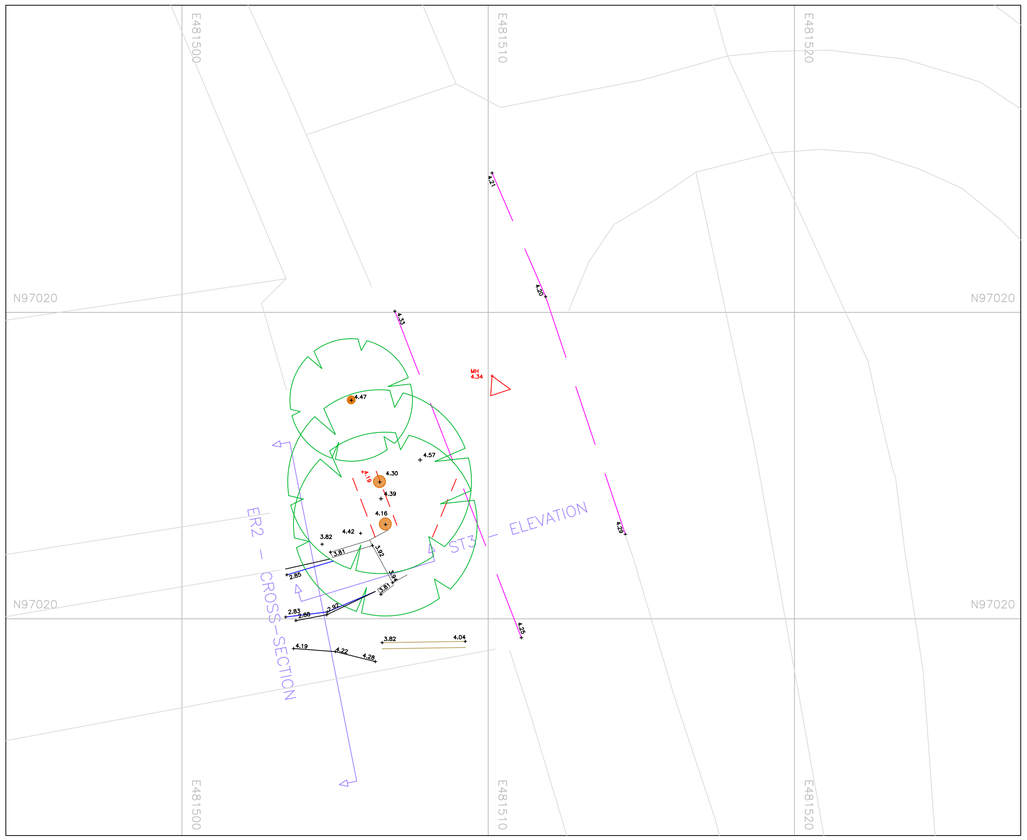
DRAWING

Survey of structures and cross–sections – ER–A

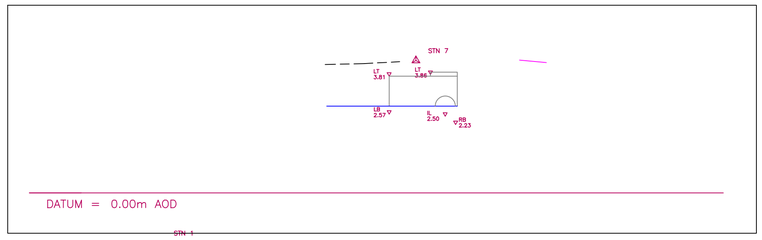
SCALE	DATE
1:100 (A1)	13/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_02	–

PLAN OF STRUCTURE ST3



ST3 EAST ELEVATION



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REVISION	DESCRIPTION	DATE
A	FP LEVEL (0.000) AMENDED	5/7/19

KEY

FP	Flood Plain
BB	Bottom of Bank
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WL	Water Line
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IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
LT	Left Top
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FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
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EP	Electricity pole
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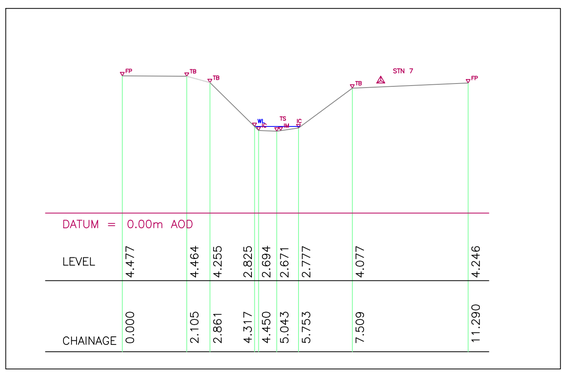
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

ER2 – CROSS–SECTION



CHAINAGE	0.000	2.105	2.861	4.317	4.450	5.043	5.753	7.509	11.290
LEVEL	4.477	4.464	4.255	2.825	2.694	2.671	2.777	4.077	4.246

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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

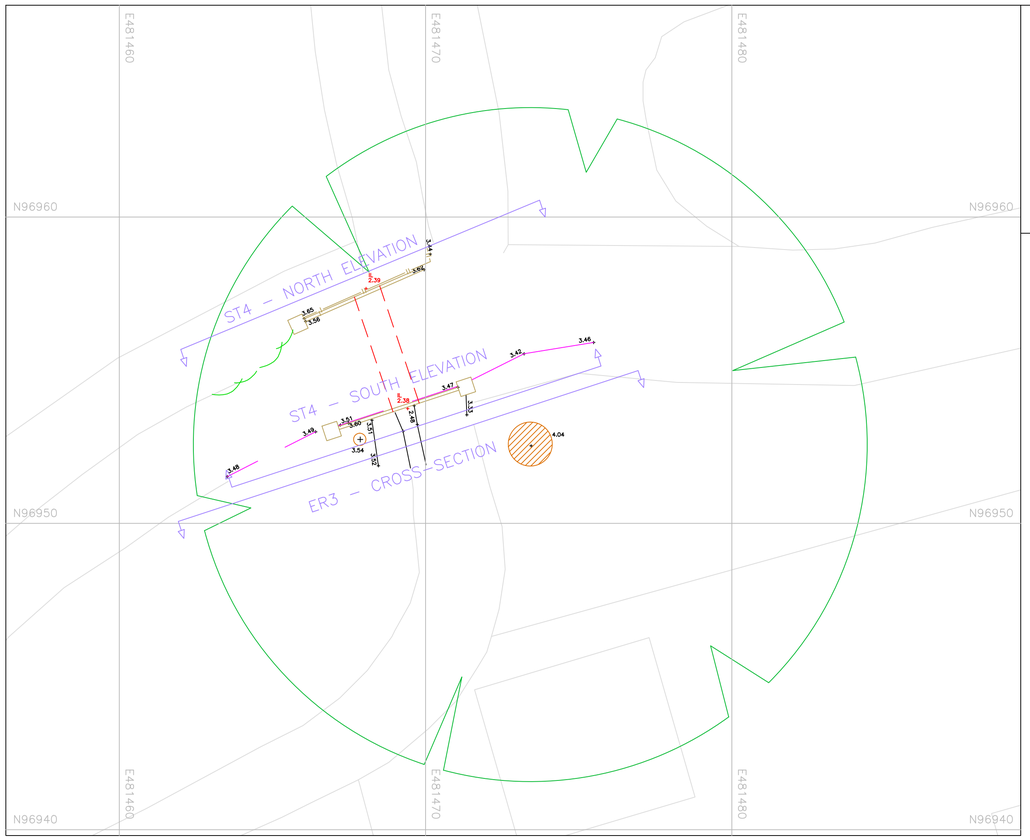
DRAWING

Survey of structures and cross–sections – ER–B

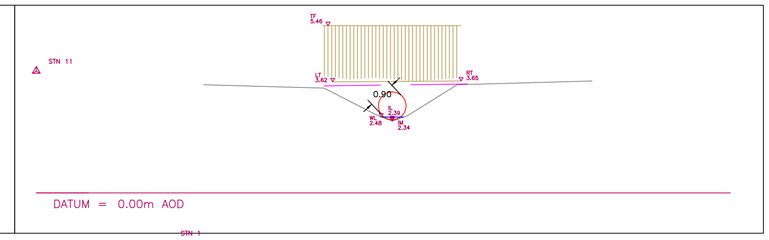
SCALE	DATE
1:100 (A1)	13/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_03	A

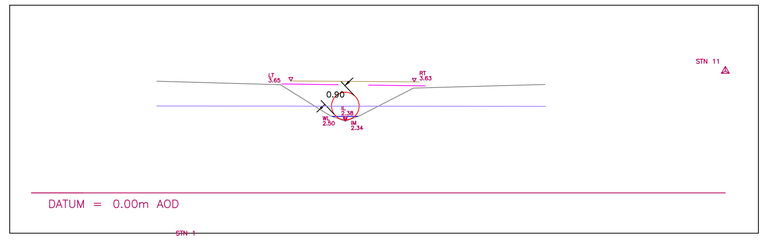
PLAN OF STRUCTURE ST4



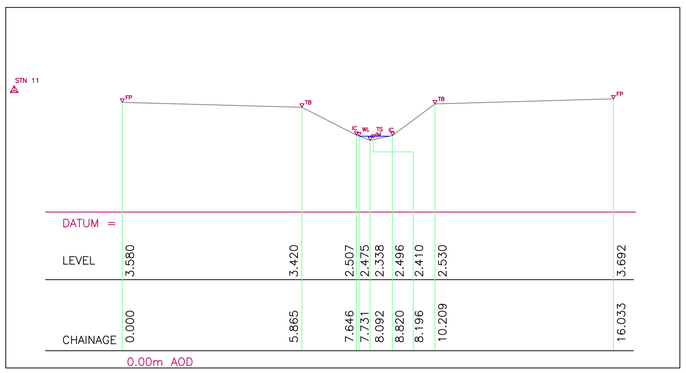
ST4 NORTH ELEVATION



ST4 SOUTH ELEVATION



ER3 – CROSS–SECTION



KEY

FP	Flood Plain
BB	Bottom of Bank
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WL	Water Line
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Applies to Arch, Culvert or Head Wall	
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P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

Notes

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REVISION	DESCRIPTION	DATE

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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

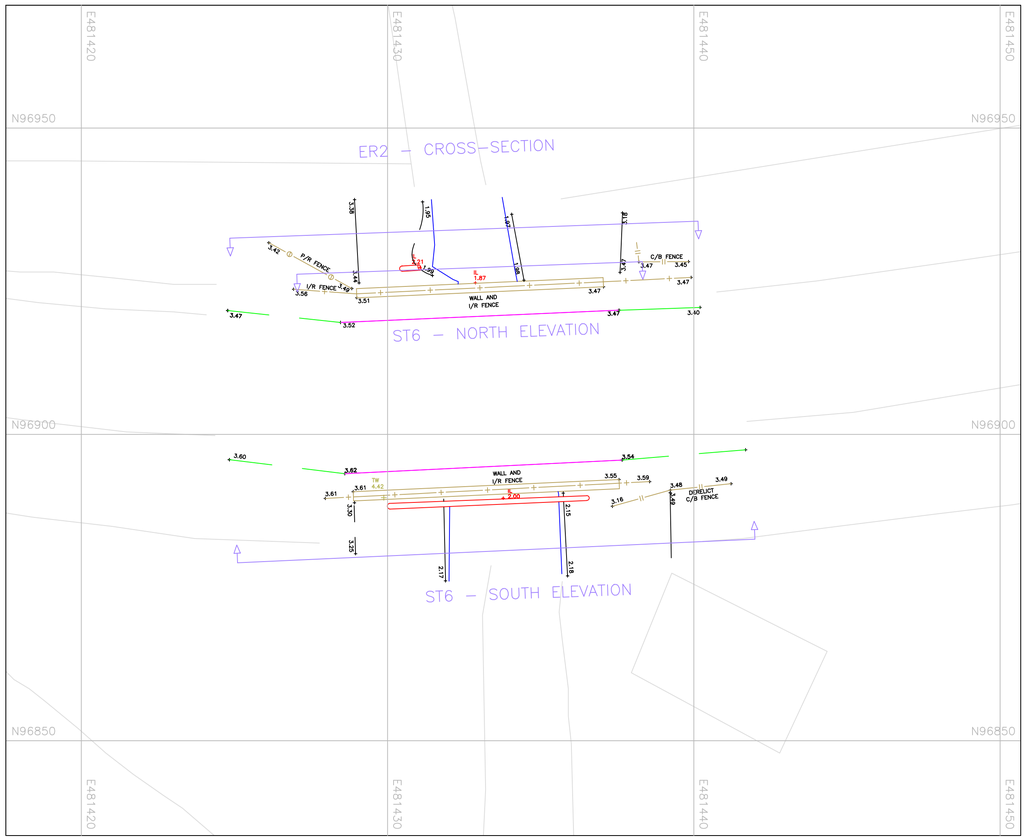
DRAWING

Survey of structures and cross–sections – ER–C

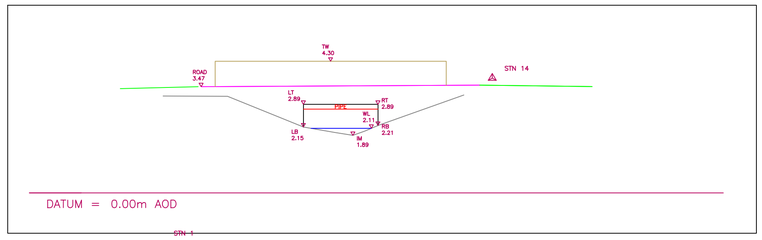
SCALE	DATE
1:100 (A1)	13/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_04	–

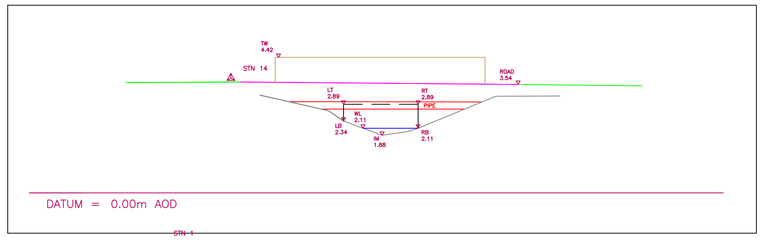
PLAN OF STRUCTURE ST6



ST6 NORTH ELEVATION



ST6 SOUTH ELEVATION



Notes

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REVISION	DESCRIPTION	DATE

KEY

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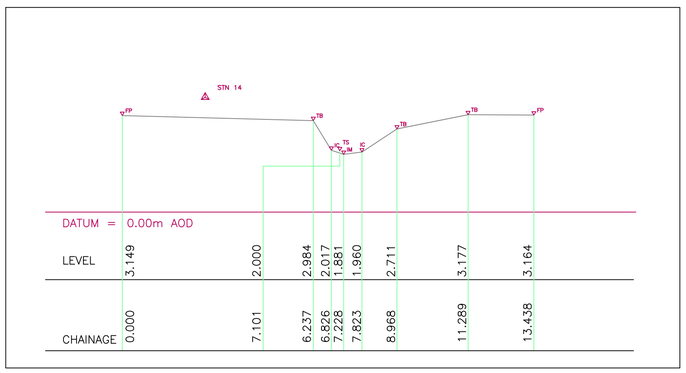
RTW	Retaining wall
SSF	Steel security fence

ER4 – CROSS–SECTION



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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

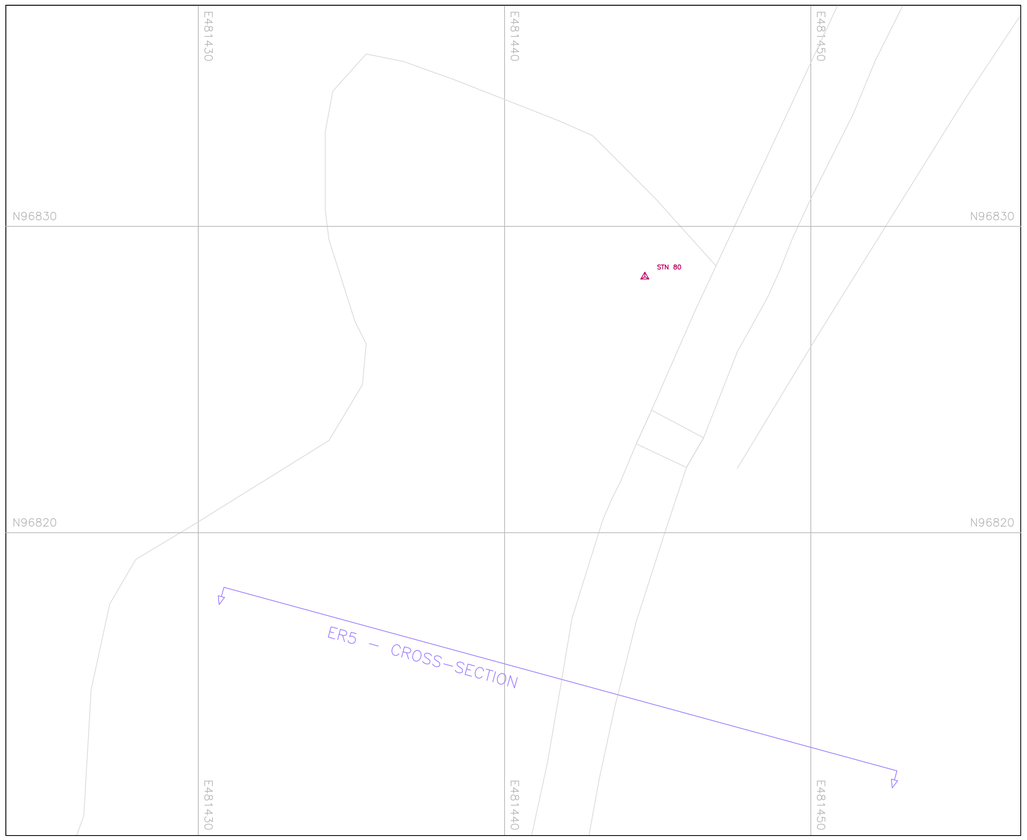
DRAWING

Survey of structures and cross–sections – ER–D

SCALE	DATE
1:100 (A1)	15/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_05	–

PLAN OF STRUCTURE ST6



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P/R	Post and rail fence
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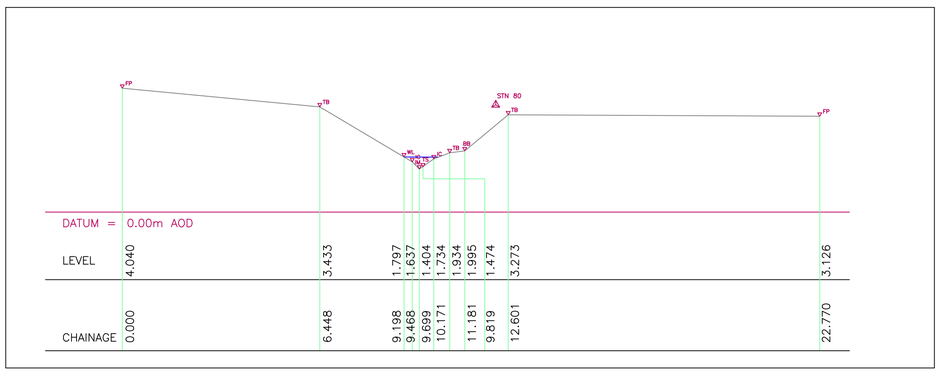
RTW	Retaining wall
SSF	Steel security fence

ER5 – CROSS–SECTION



Notes

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Grid co–ordinates and levels are based upon the Ordnance Survey

REVISION	DESCRIPTION	DATE

MERIDIAN
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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

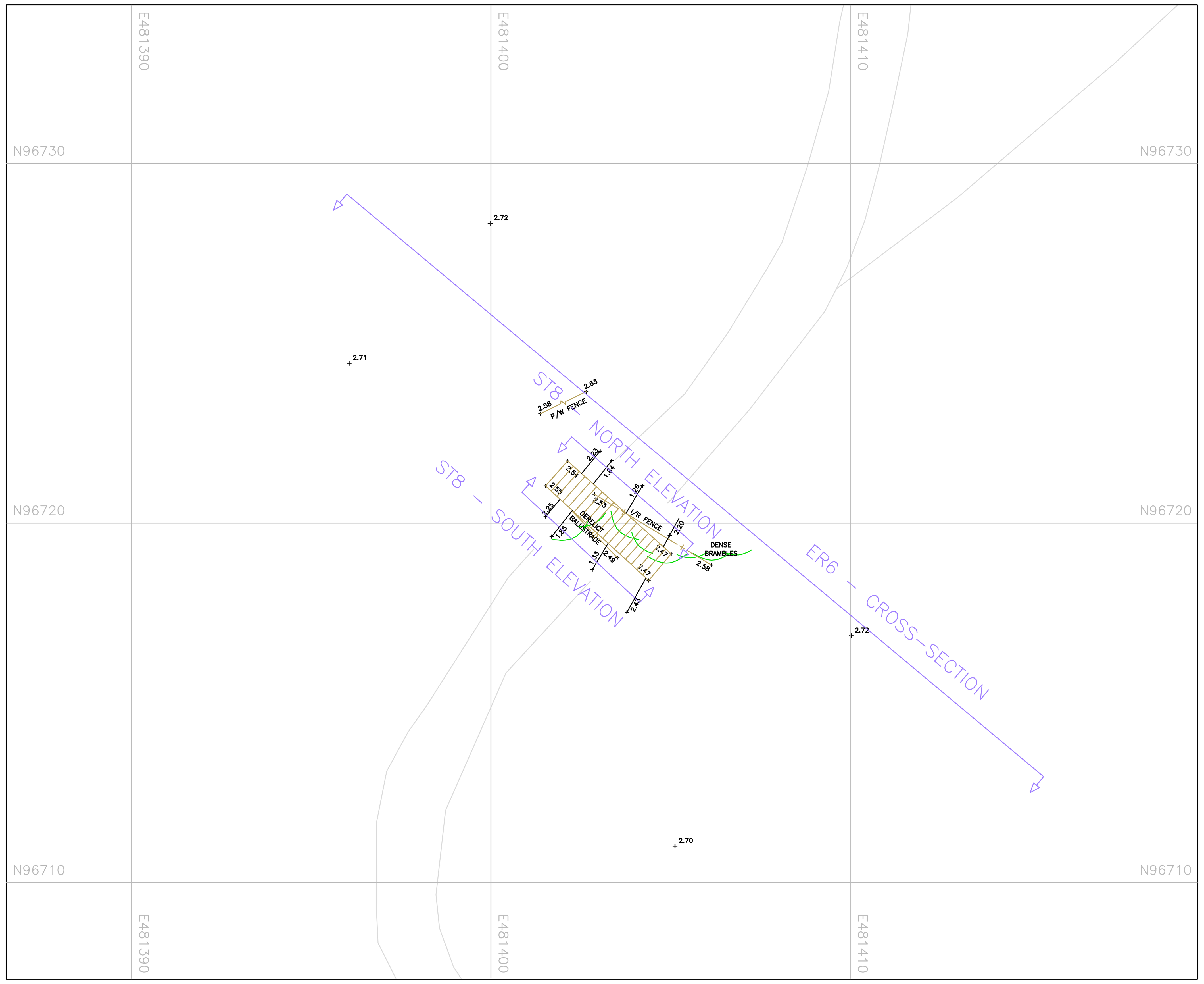
DRAWING

Survey of structures and cross–sections – ER–E

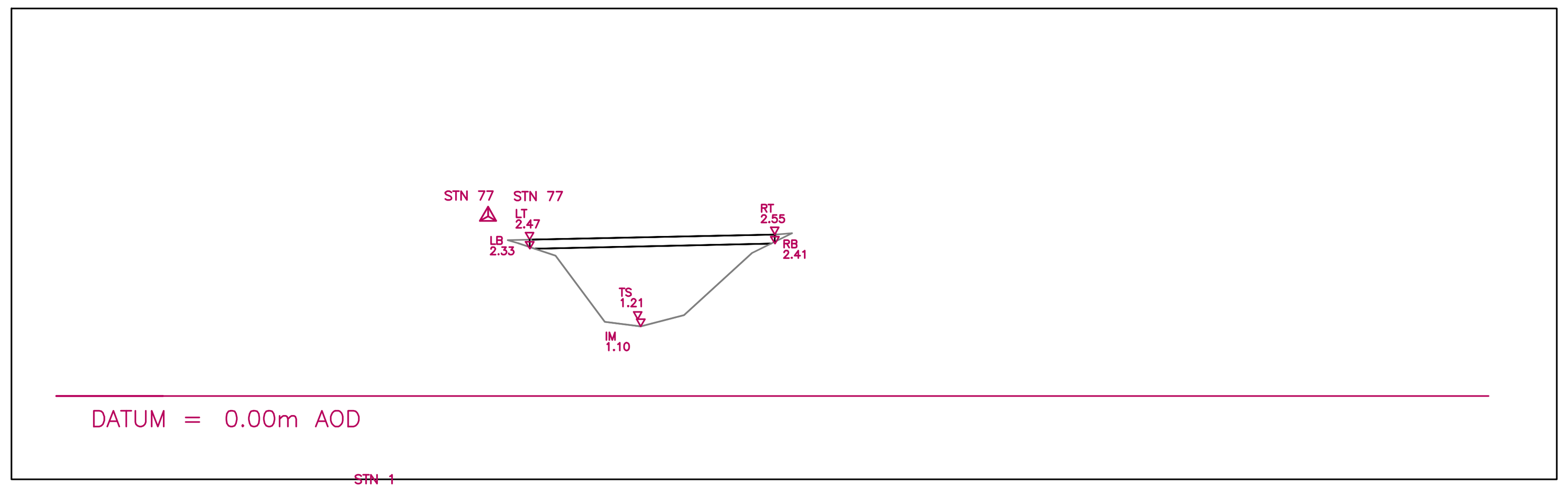
SCALE	DATE
1:100 (A1)	17/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_06	–

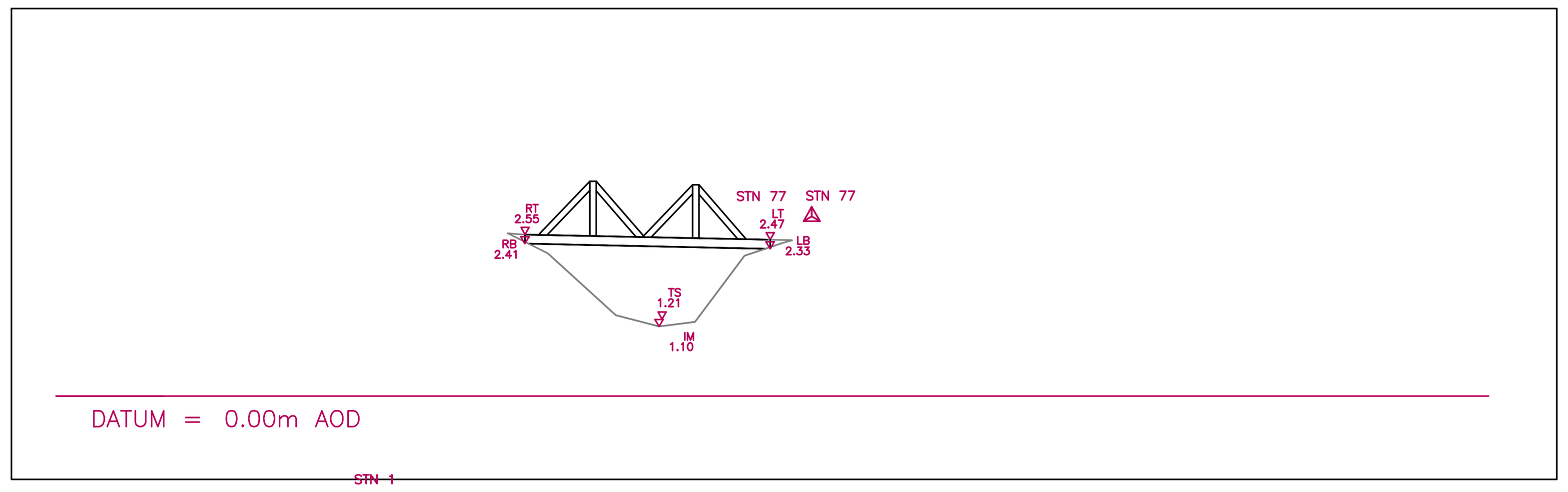
PLAN OF STRUCTURE ST8



ST8 NORTH ELEVATION



ST8 SOUTH ELEVATION



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Grid co-ordinates and levels are based upon the Ordnance Survey

REVISION	DESCRIPTION	DATE

KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid-point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
LT	Left Top
RT	Right Top
LB	Left Bottom
RB	Right Bottom
BL	Base Level
IL	Invert Level
TS	Top of Silt
FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
TP	Telegraph pole
B/W	Barbed wire fence
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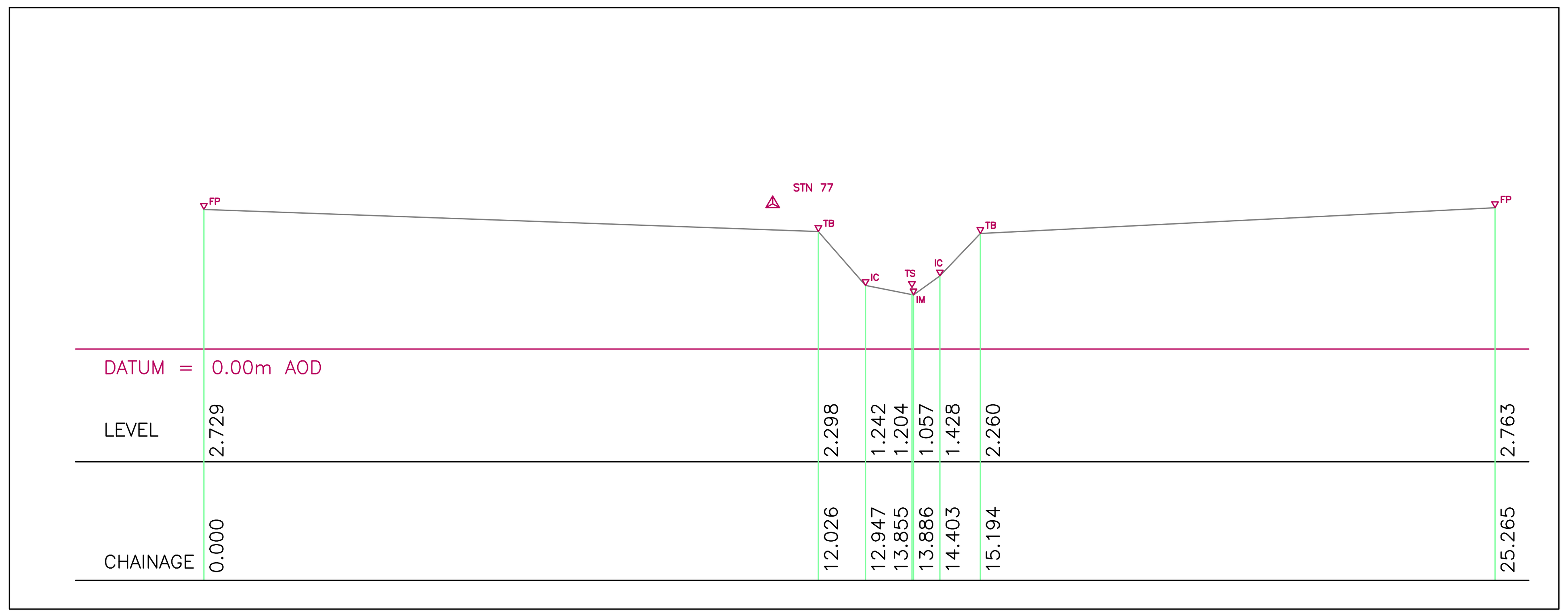
C/L	Chain link fence
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

ER6 – CROSS-SECTION



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CUSTOMER
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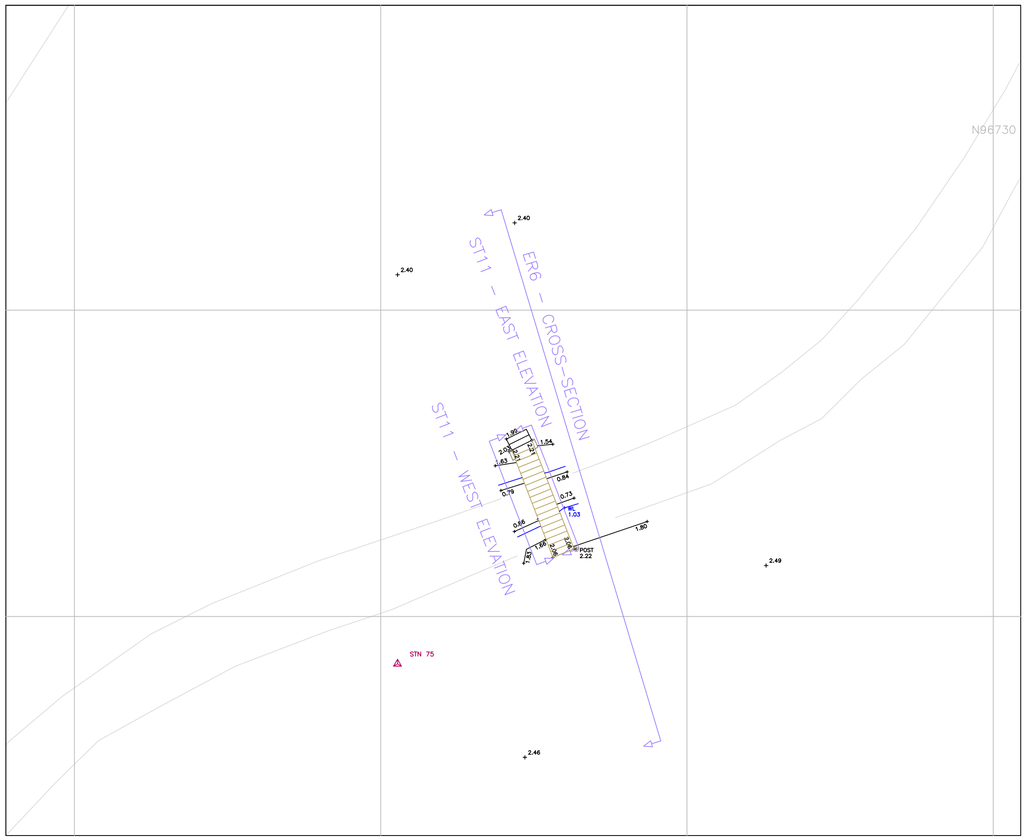
PROJECT
Earnley Watercourse, floodplain and structure fluvial modelling

DRAWING
Survey of structures and cross-sections – ER-F

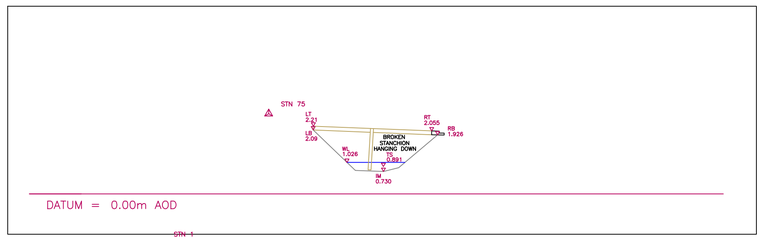
SCALE	DATE
1:100 (A1)	17/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_07	–

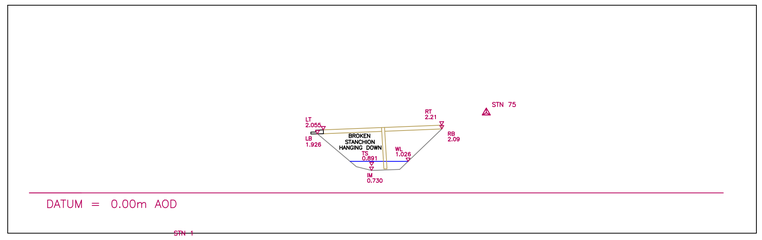
PLAN OF STRUCTURE ST8



ST11 EAST ELEVATION



ST11 WEST ELEVATION



KEY

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BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid-point
Applies to Arch, Culvert or Head Wall	
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IL	Invert Level
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GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
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B/W	Barbed wire fence
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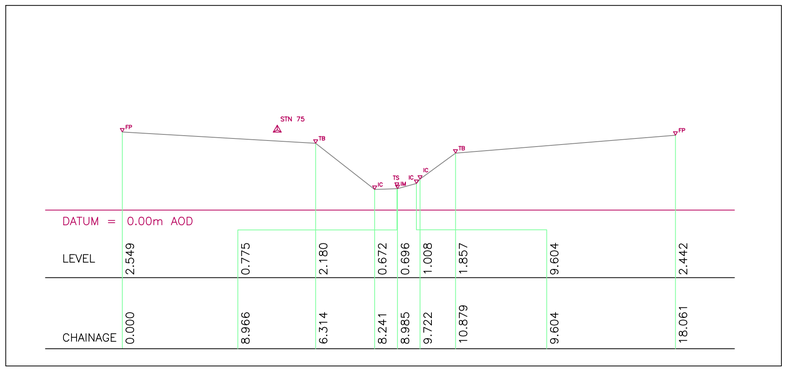
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

ER6 – CROSS-SECTION



Notes

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REVISION	DESCRIPTION	DATE

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PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

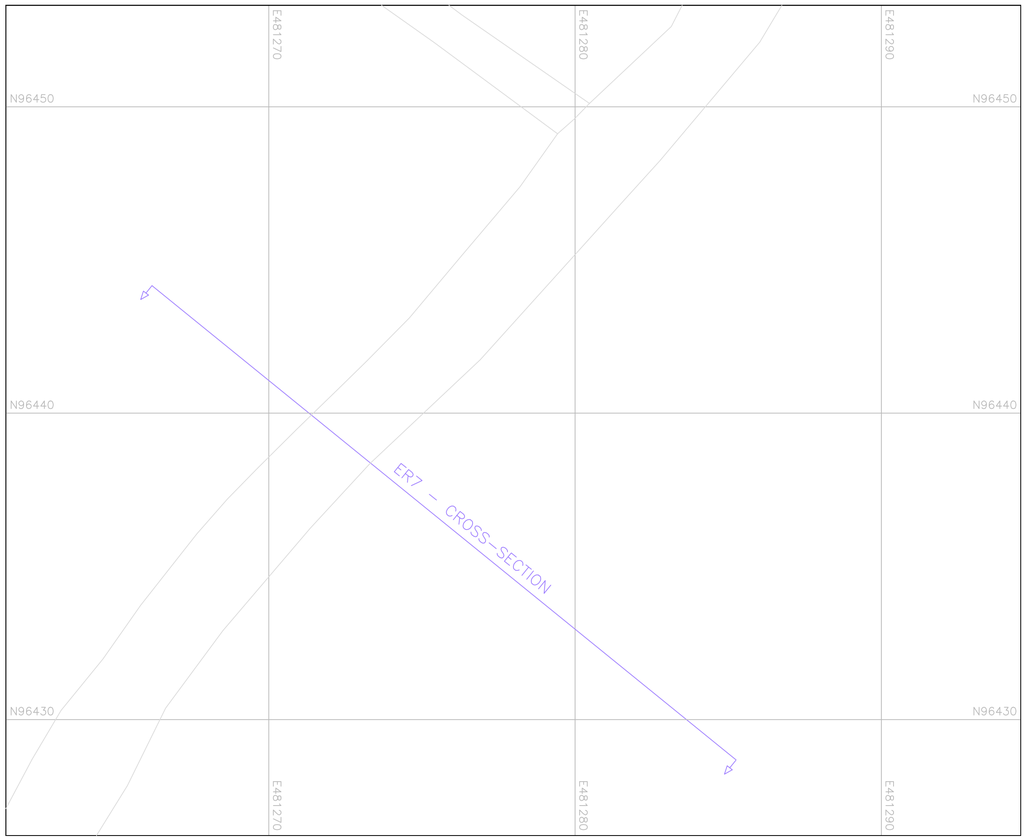
DRAWING

Survey of structures and cross-sections – ER-G

SCALE	DATE
1:100 (A1)	17/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_09	–

PLAN OF CROSS-SECTION ER7



KEY

FP	Flood Plain
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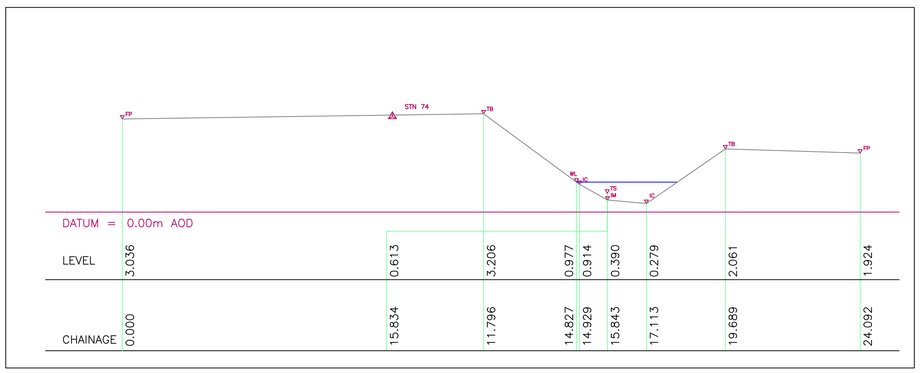
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

ER7 – CROSS-SECTION



Notes

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REVISION	DESCRIPTION	DATE
A	RH2 FP REINSTATED XYZ FILE	5/7/19

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PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

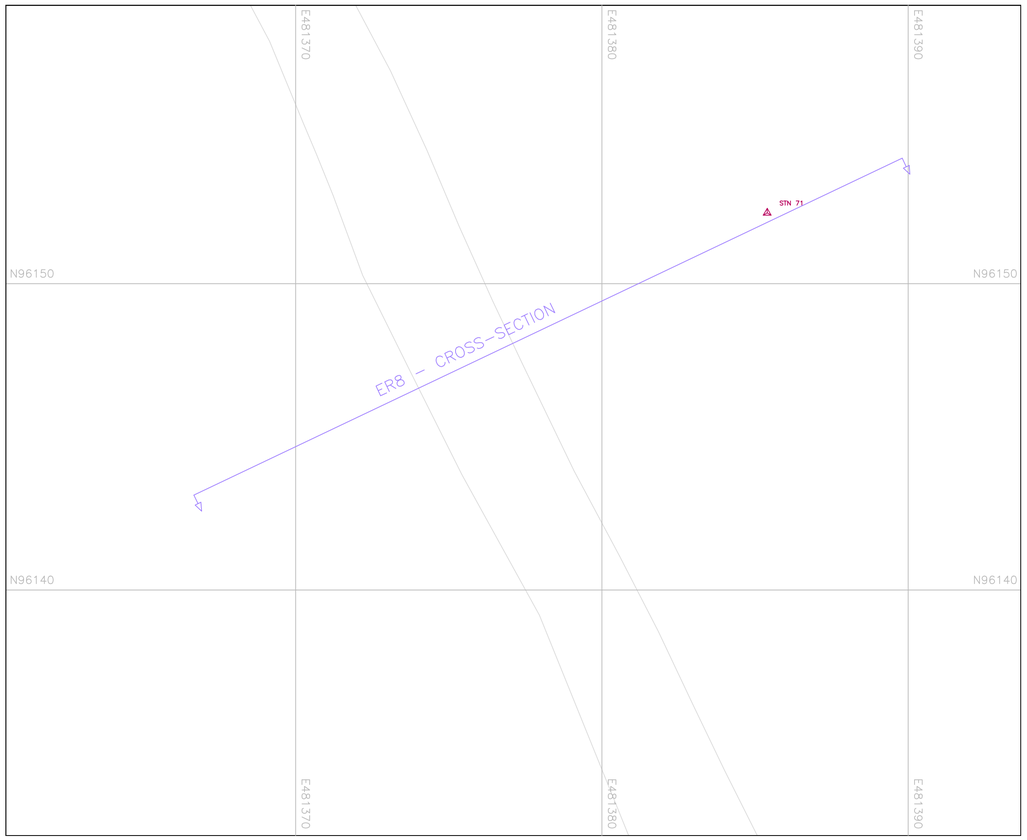
DRAWING

Survey of structures and cross-sections – ER-H

SCALE	DATE
1:100 (A1)	19/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_10	A

PLAN OF CROSS–SECTION ER8



Notes

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KEY

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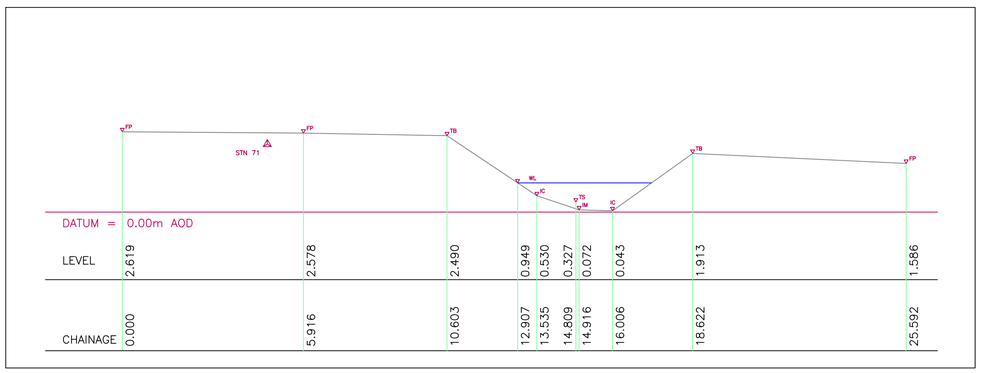
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

ER8 – CROSS–SECTION



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PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

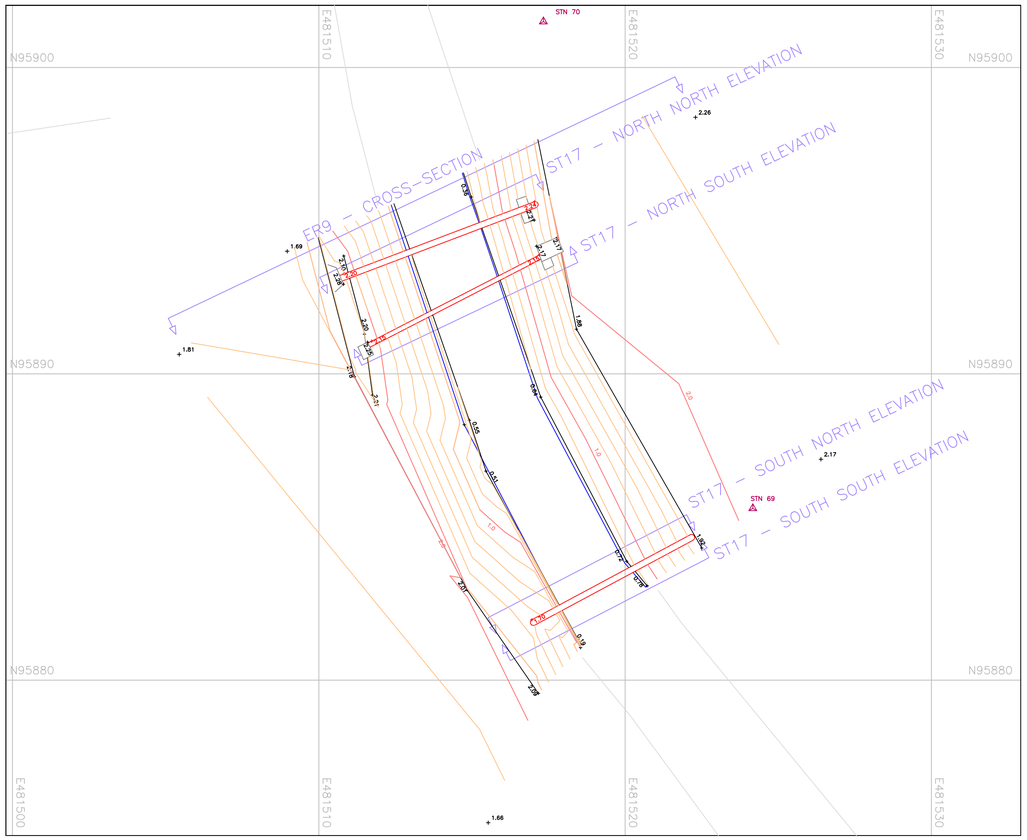
DRAWING

Survey of structures and cross–sections – ER–I

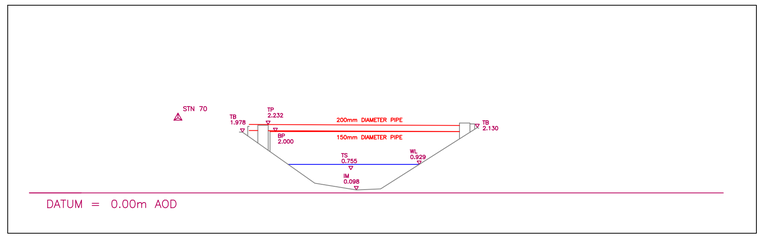
SCALE	DATE
1:100 (A1)	19/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_11	–

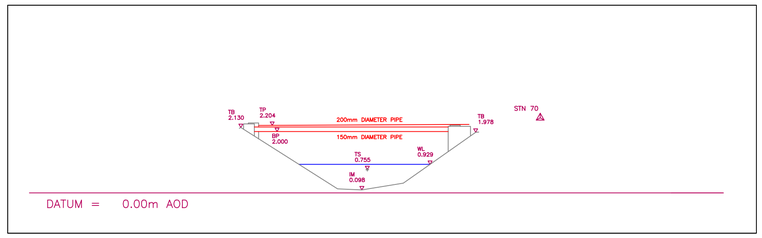
PLAN OF STRUCTURES ST17



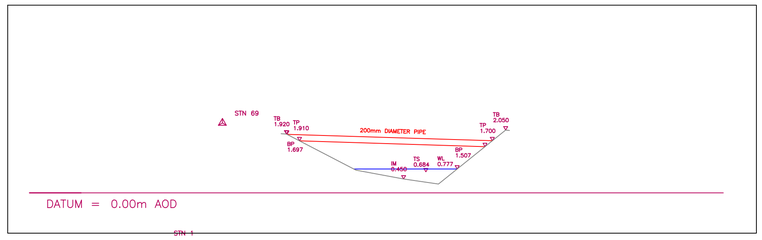
ST17 – NORTH NORTH ELEVATION



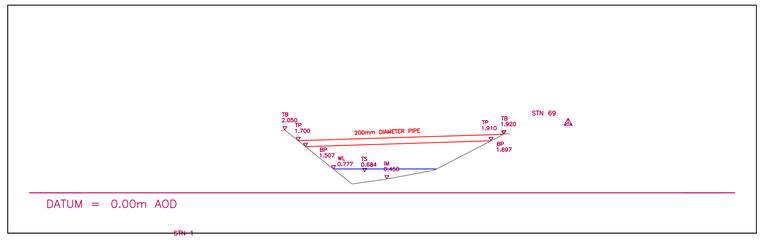
ST17 – NORTH SOUTH ELEVATION



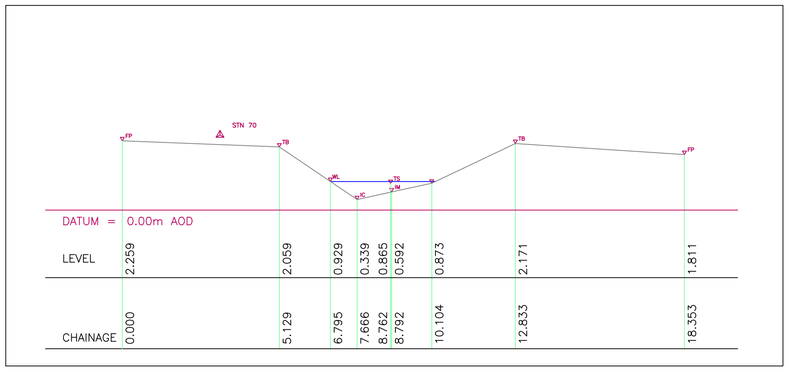
ST17 – SOUTH NORTH ELEVATION



ST17 – SOUTH SOUTH ELEVATION



ER9 – CROSS–SECTION



KEY

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IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
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LT	Left Top
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P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
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Notes

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REVISION	DESCRIPTION	DATE
A	ER09 REINSTATED XYZ FILE	5/7/19

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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

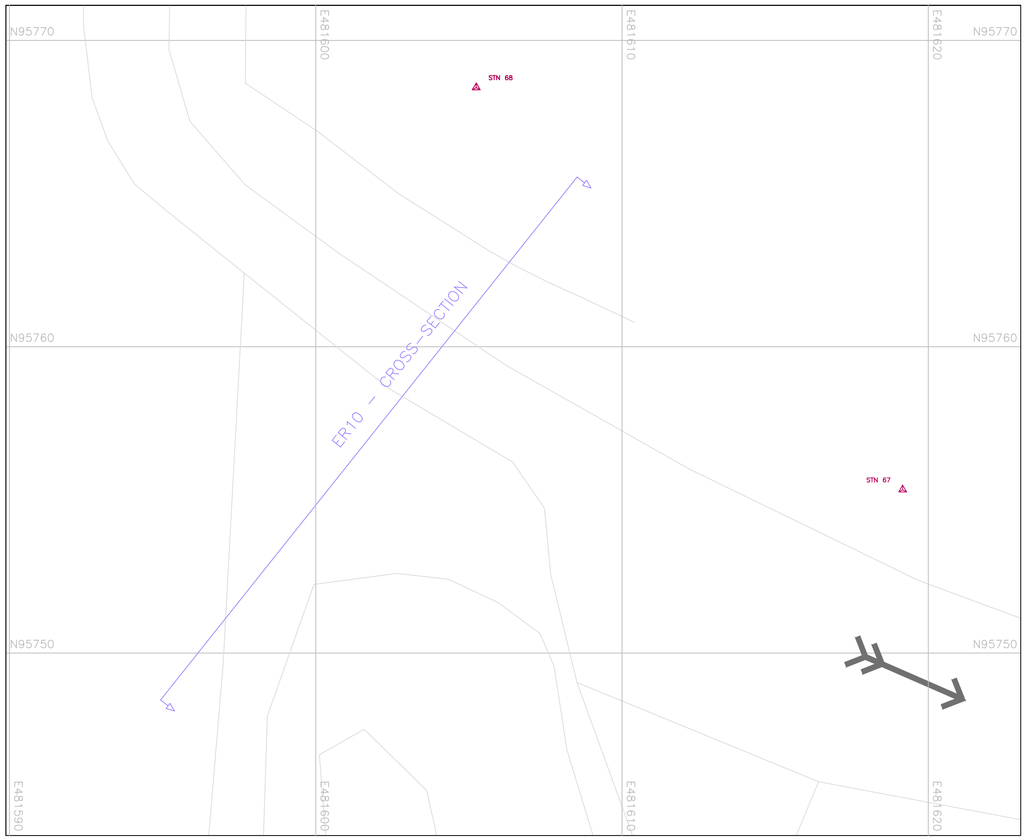
DRAWING

Survey of structures and cross–sections – ER–J

SCALE	DATE
1:100 (A1)	20/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_12	A

PLAN OF CROSS–SECTION ER10



KEY

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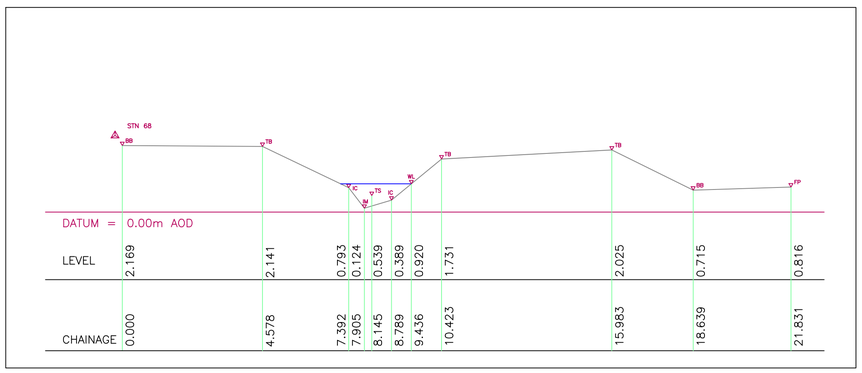
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

ER10 – CROSS–SECTION



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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

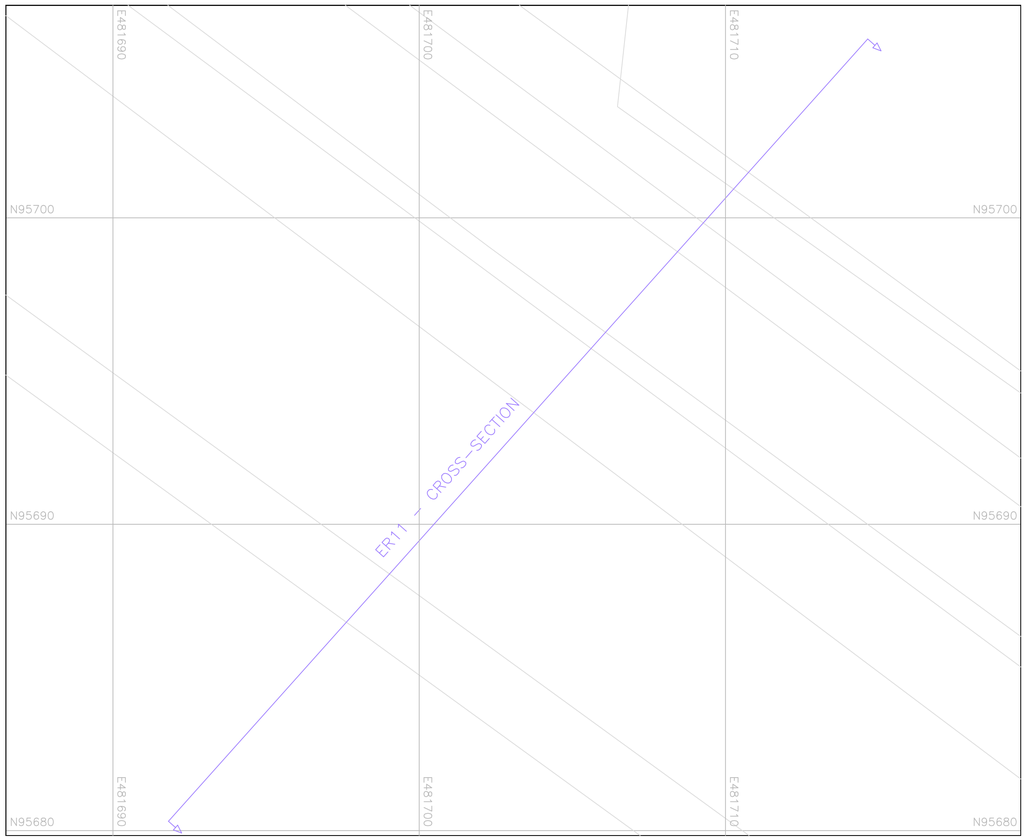
DRAWING

Survey of structures and cross–sections – ER–K

SCALE	DATE
1:100 (A1)	20/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_13	–

PLAN OF CROSS–SECTION ER11



KEY

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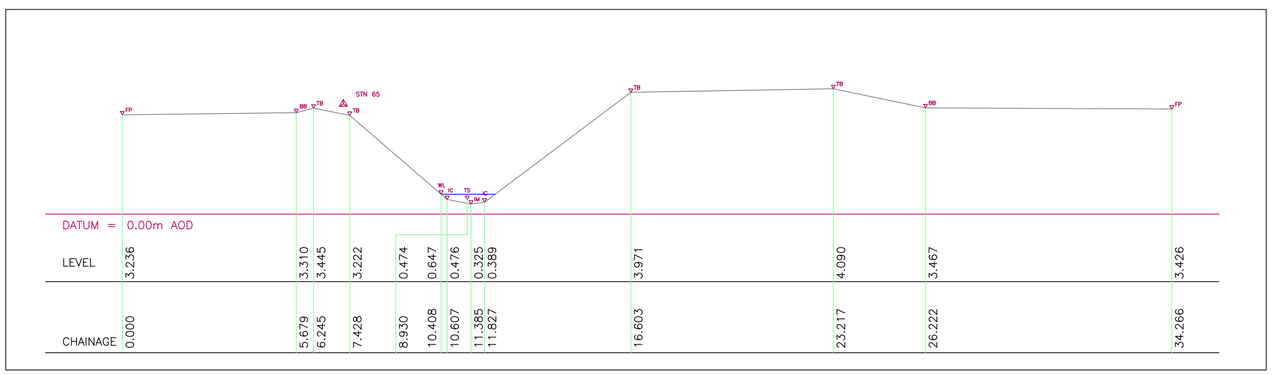
ER11 – CROSS–SECTION



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CUSTOMER

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PROJECT

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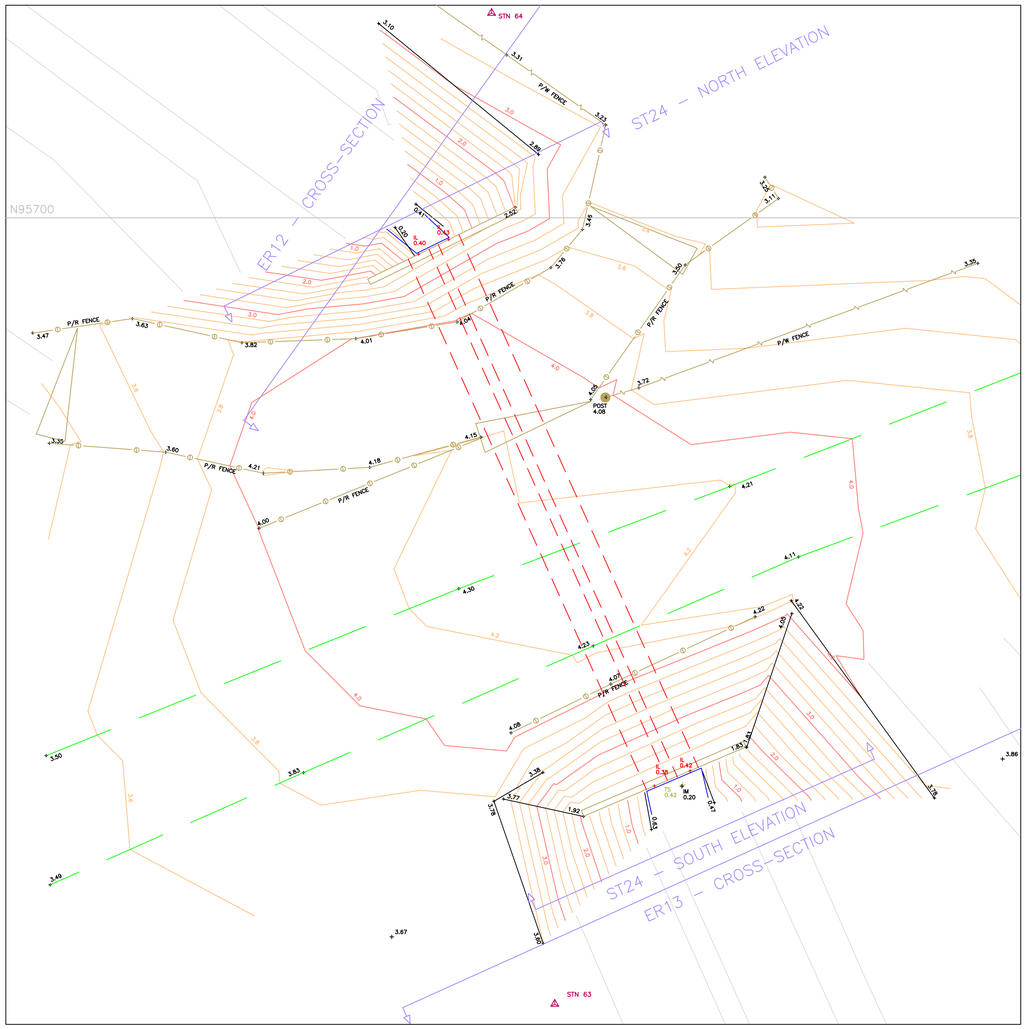
DRAWING

Survey of structures and cross–sections – ER–L

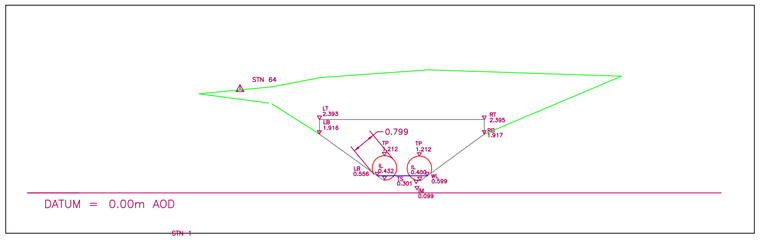
SCALE	DATE
1:100 (A1)	20/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_14	–

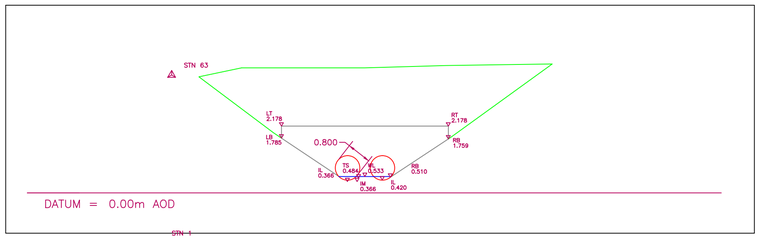
PLAN OF STRUCTURE – ST24



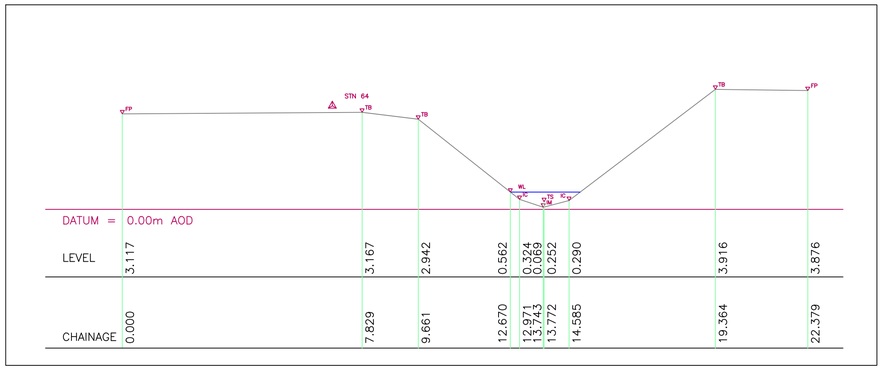
ST24 – NORTH ELEVATION



ST24 – SOUTH ELEVATION

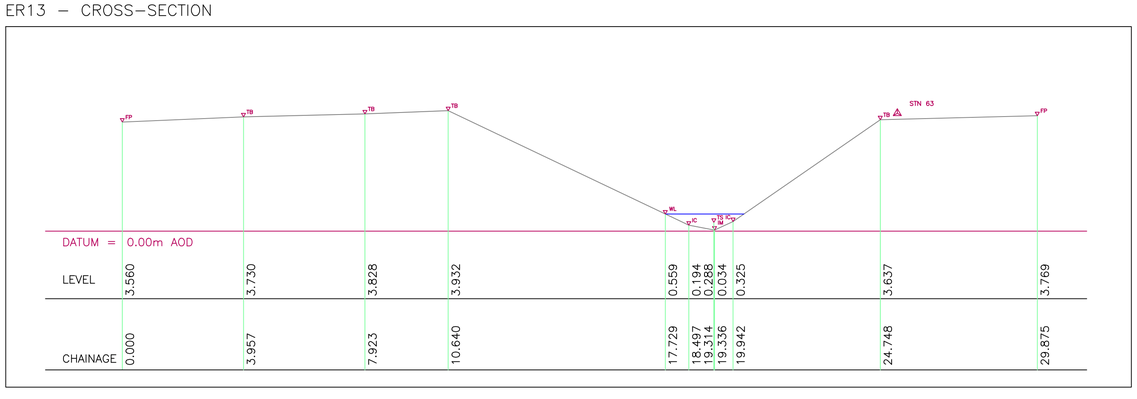


ER12 – CROSS–SECTION



LEVEL	3.117	3.167	2.942	0.562	0.324	0.069	0.252	0.290	3.916	3.876
CHAINAGE	0.000	7.829	9.661	12.670	12.971	13.343	13.772	14.585	19.364	22.379

ER13 – CROSS–SECTION



LEVEL	3.560	3.730	3.828	3.932	0.559	0.194	0.034	0.325	3.637	3.769
CHAINAGE	0.000	3.957	7.923	10.640	17.729	18.497	19.336	19.942	24.748	29.875

KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
LT	Left Top
RT	Right Top
LB	Left Bottom
RB	Right Bottom
BL	Base Level
IL	Invert Level
TS	Top of Silt
FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
TP	Telegraph pole
B/W	Barbed wire fence
C/B	Close boarded fence
C/L	Chain link fence
C/P	Chestnut paling fence
P/R	Post and rail fence

Notes

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Grid co–ordinates and levels are based upon the Ordnance Survey

REVISION	DESCRIPTION	DATE

MERIDIAN
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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

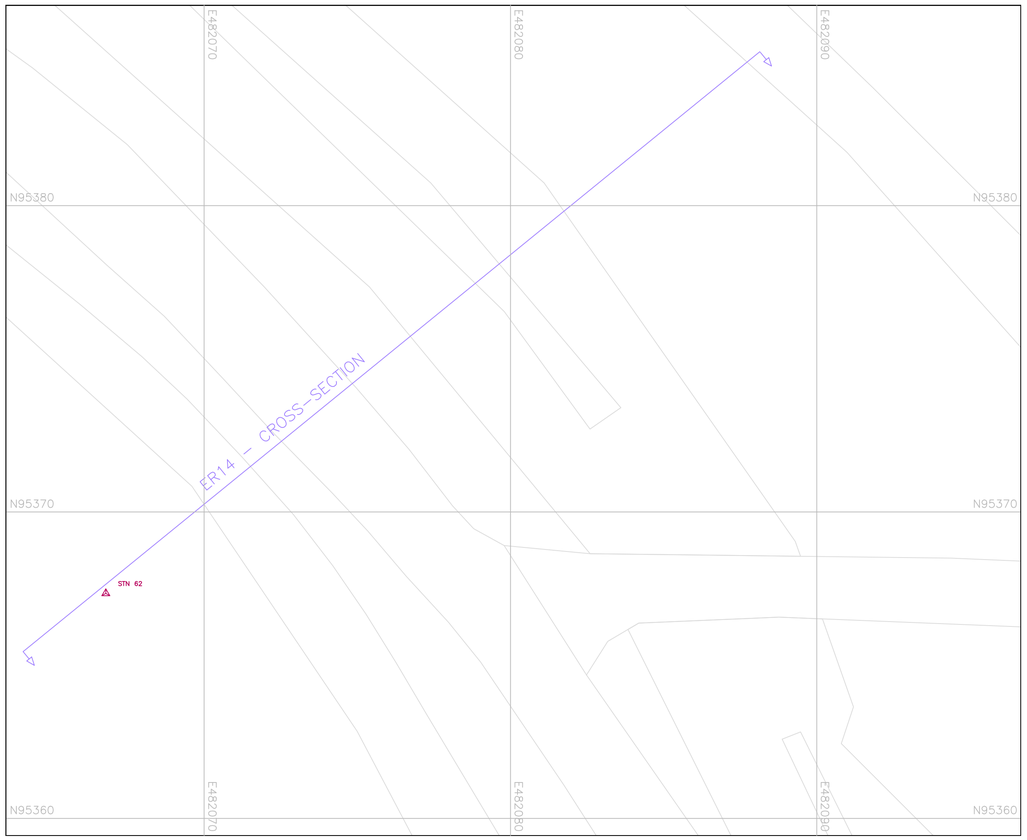
DRAWING

Survey of structures and cross–sections – ER–M

SCALE	DATE
1:100 (A1)	20/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_15	–

PLAN OF CROSS–SECTION – ER14



KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
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IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
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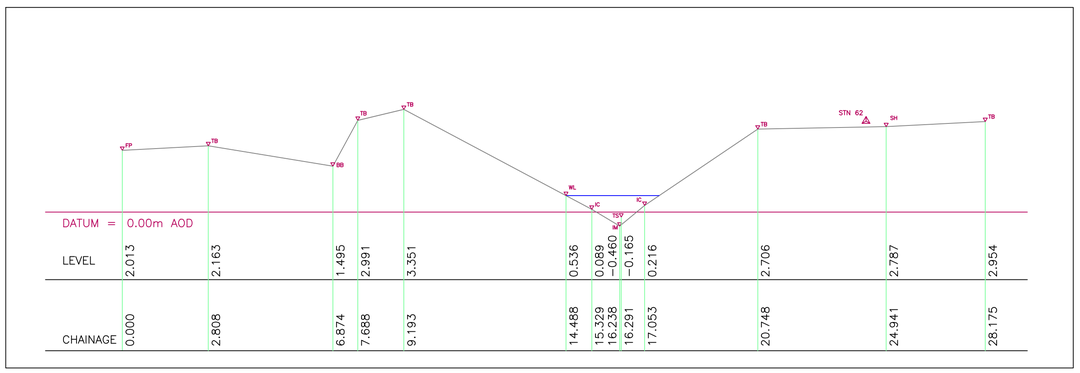
C/L	Chain link fence
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

ER14 – CROSS–SECTION



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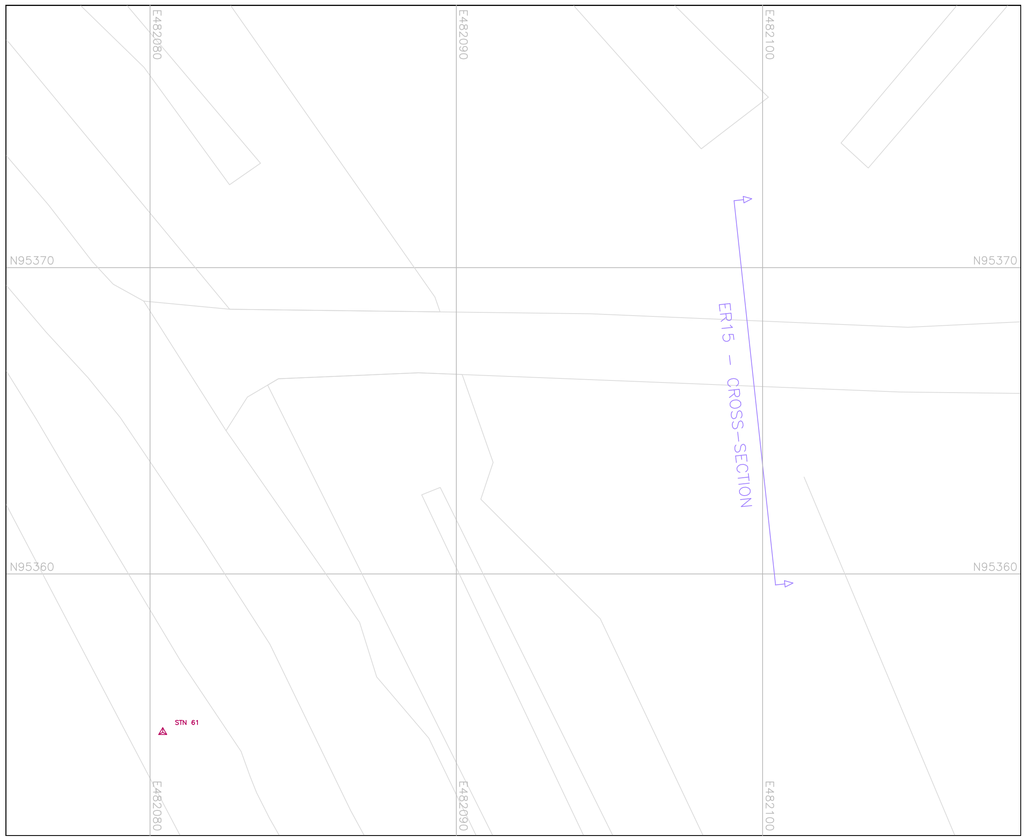
Survey of structures and cross–sections – ER–N

SCALE	DATE
1:100 (A1)	21/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_16	–

PLAN OF CROSS–SECTION – ER15



KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
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MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
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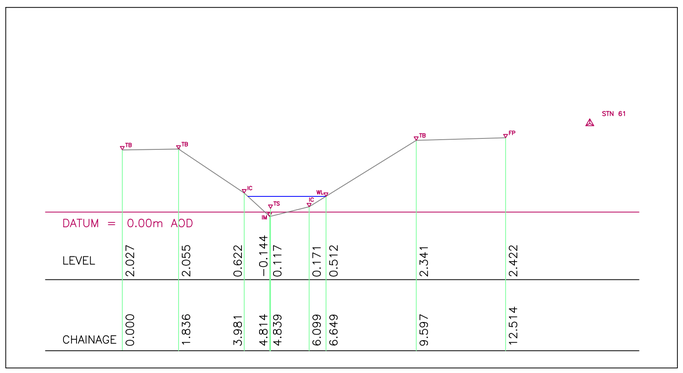
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

ER15 – CROSS–SECTION



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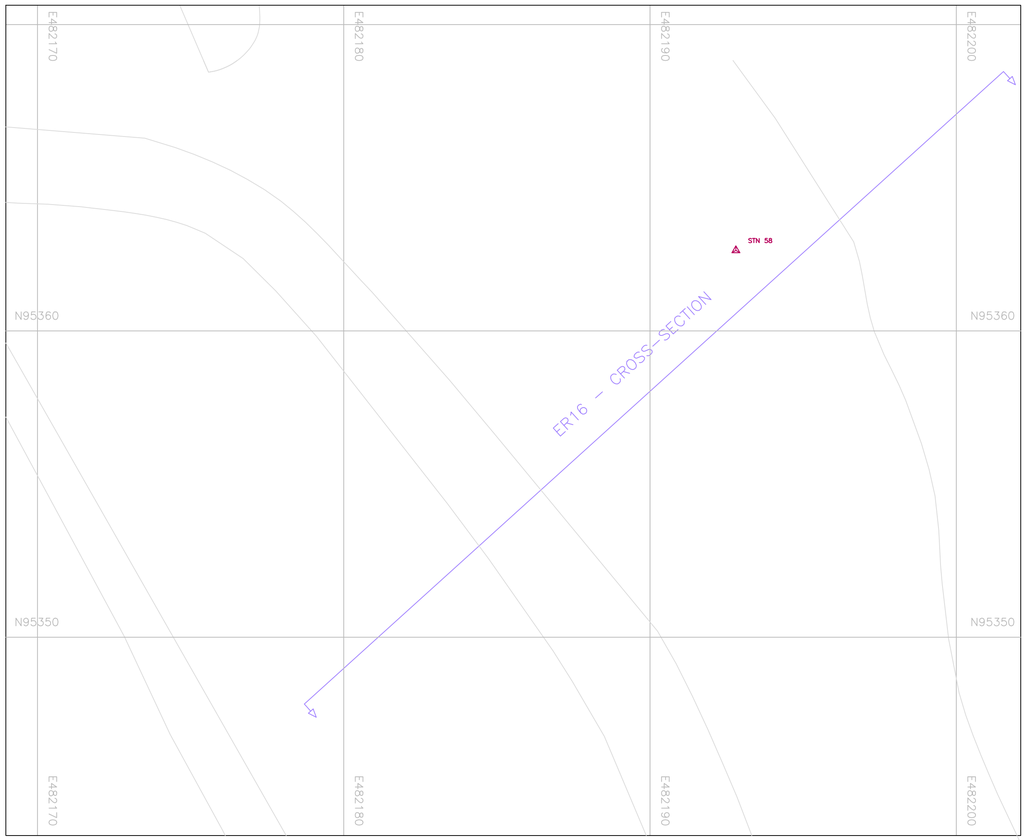
DRAWING

Survey of structures and cross–sections – ER–0

SCALE	DATE
1:100 (A1)	21/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_17	–

PLAN OF CROSS–SECTION – ER16



KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
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Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
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RB	Right Bottom
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GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
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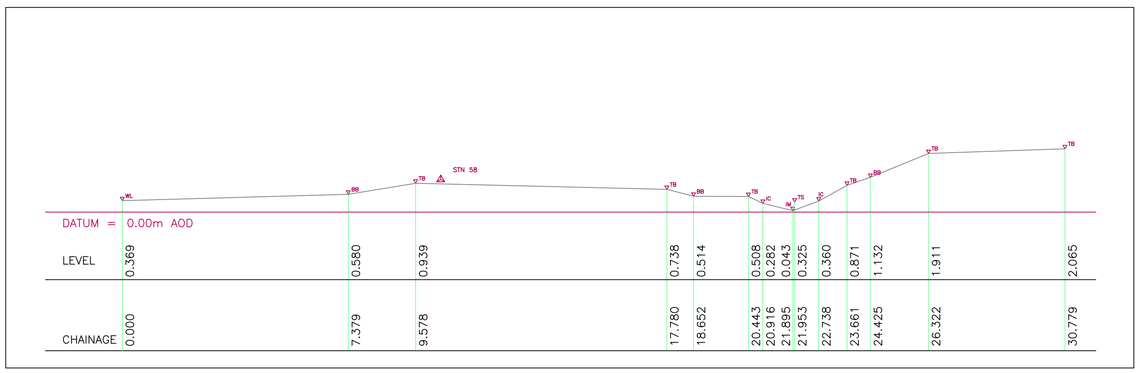
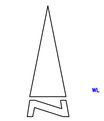
C/L	Chain link fence
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

ER16 – CROSS–SECTION





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REVISION	DESCRIPTION	DATE
A	CORRECTED 46mm IN HEIGHT	5/7/19

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Earnley Watercourse, floodplain and structure fluvial modelling

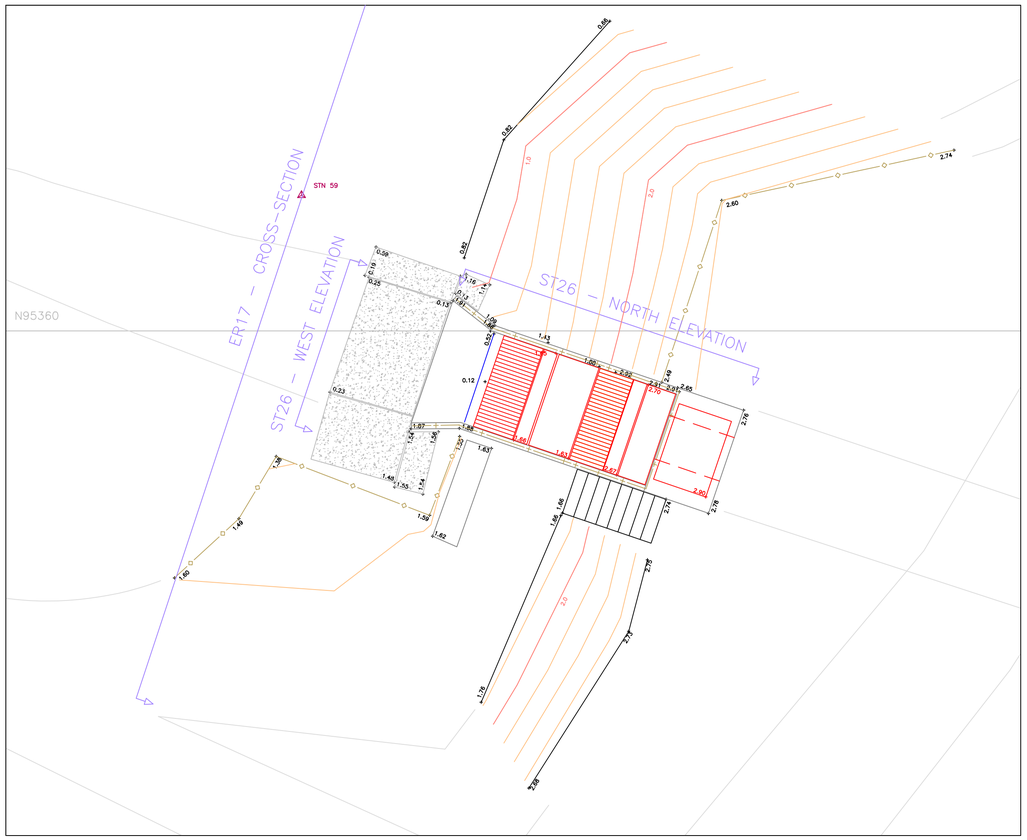
DRAWING

Survey of structures and cross–sections – ER–P

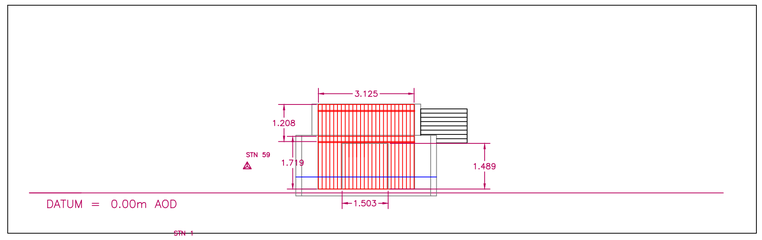
SCALE	DATE
1:100 (A1)	21/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_18	A

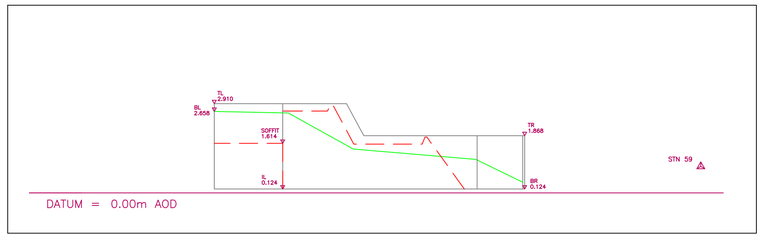
PLAN OF STRUCTURE – ST26



ST26 WEST ELEVATION



ST26 NORTH ELEVATION



Notes

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REVISION	DESCRIPTION	DATE

KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
LT	Left Top
RT	Right Top
LB	Left Bottom
RB	Right Bottom
BL	Base Level
IL	Invert Level
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FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
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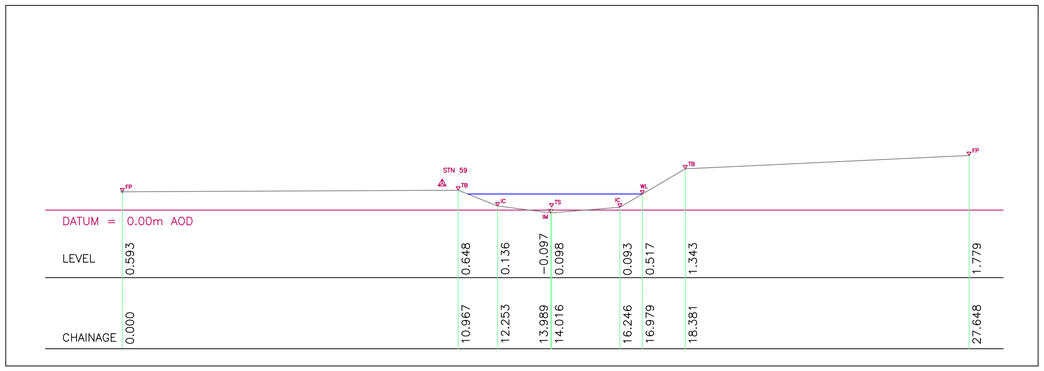
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

ER17 – CROSS–SECTION



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Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

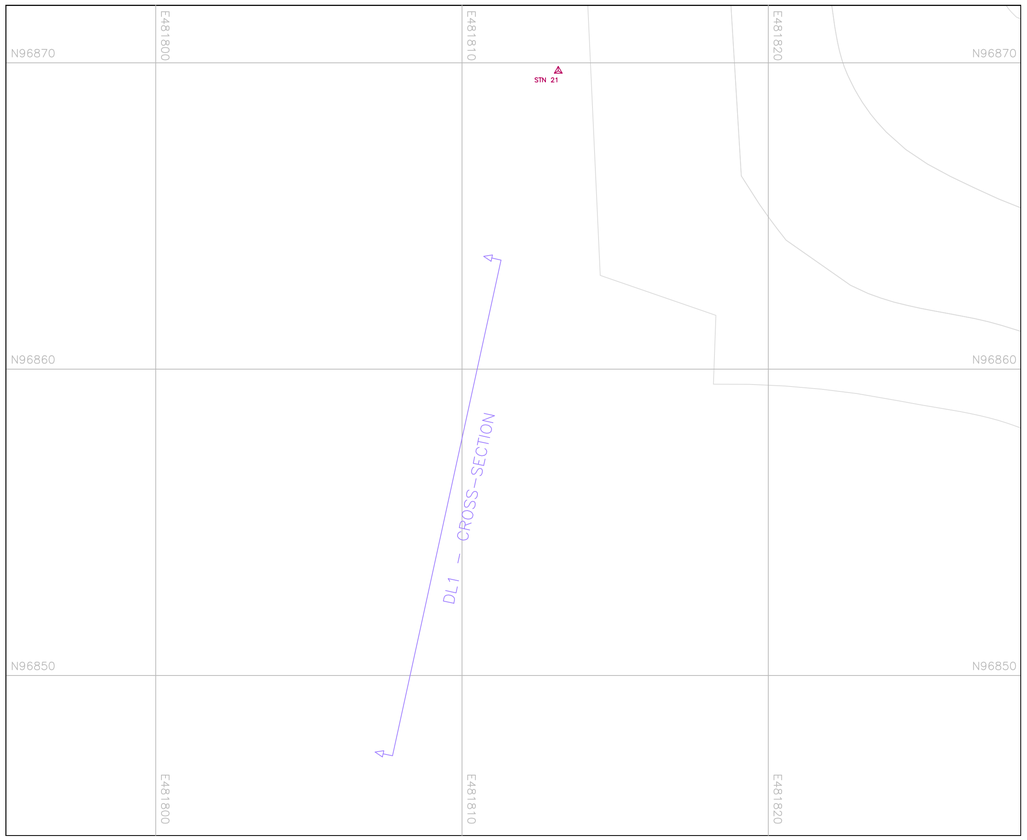
DRAWING

Survey of structures and cross–sections – ER–Q

SCALE	DATE
1:100 (A1)	21/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_19	–

PLAN OF CROSS–SECTION – DL1



KEY

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IC	In Channel
IM	In Channel mid–point
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MH	Manhole
SMP	Service marker post
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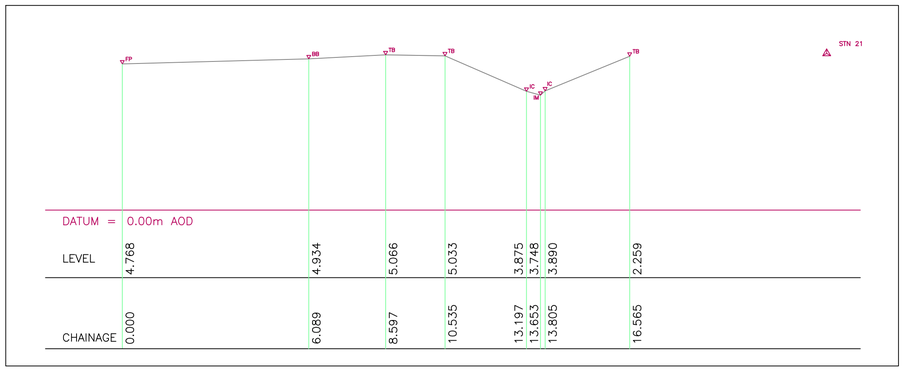
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL1 – CROSS–SECTION



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PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

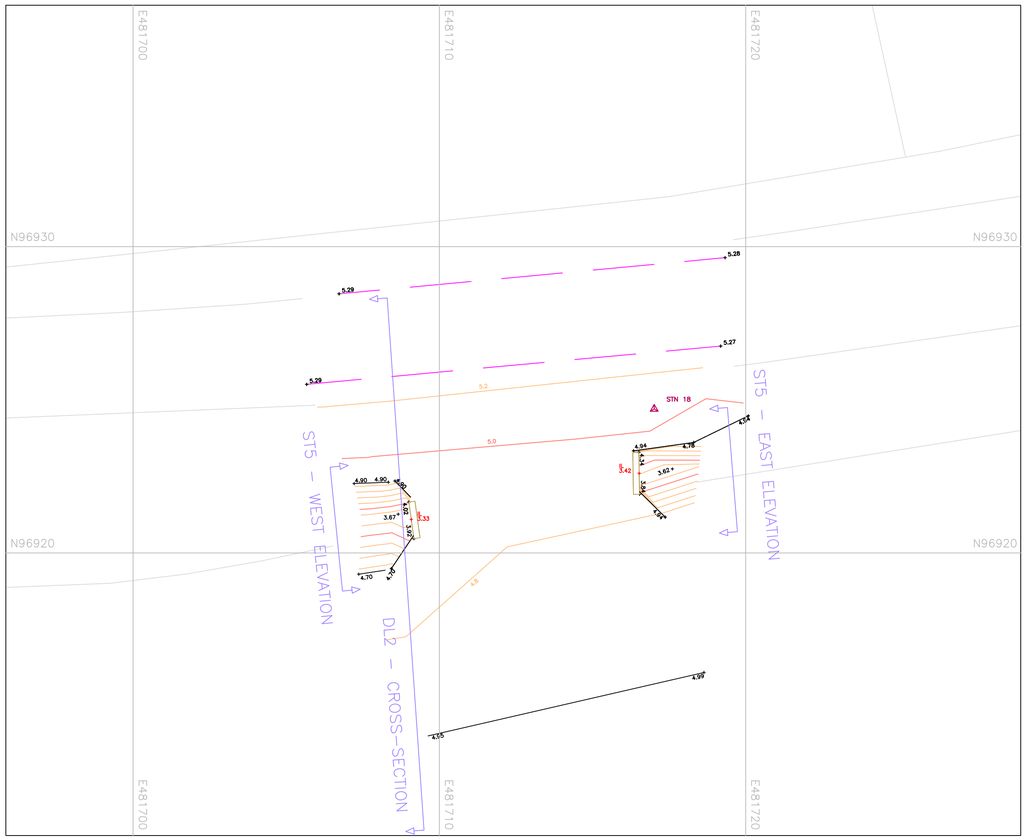
DRAWING

Survey of structures and cross–sections – DL–A

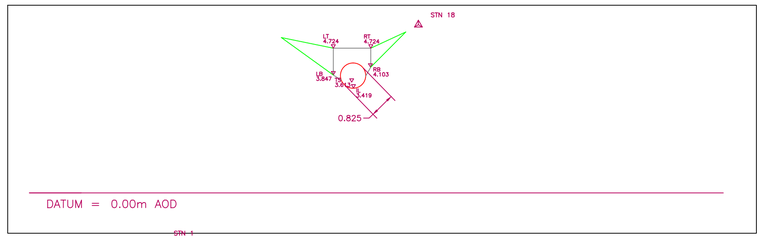
SCALE	DATE
1:100 (A1)	22/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_20	–

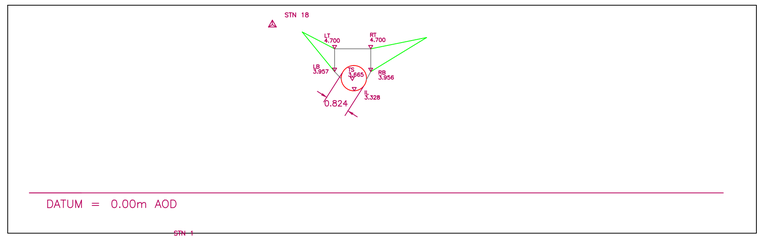
PLAN OF STRUCTURE ST5



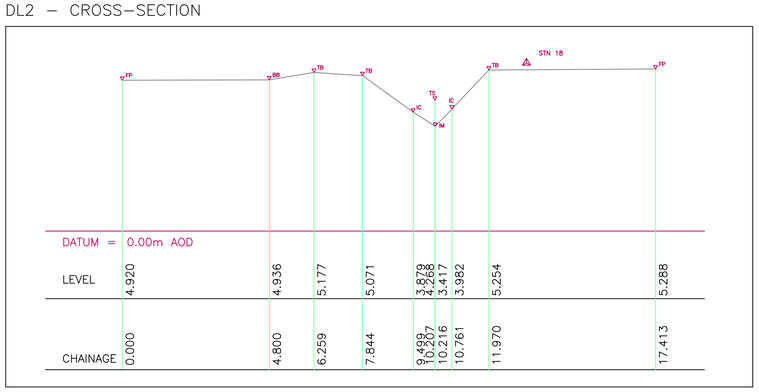
ST5 EAST ELEVATION



ST5 WEST ELEVATION



DL2 – CROSS–SECTION



KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point

Applies to Arch, Culvert or Head Wall

SL	Soffit Level
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GY	Gulley
IC	Inspection cover
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CUSTOMER

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PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

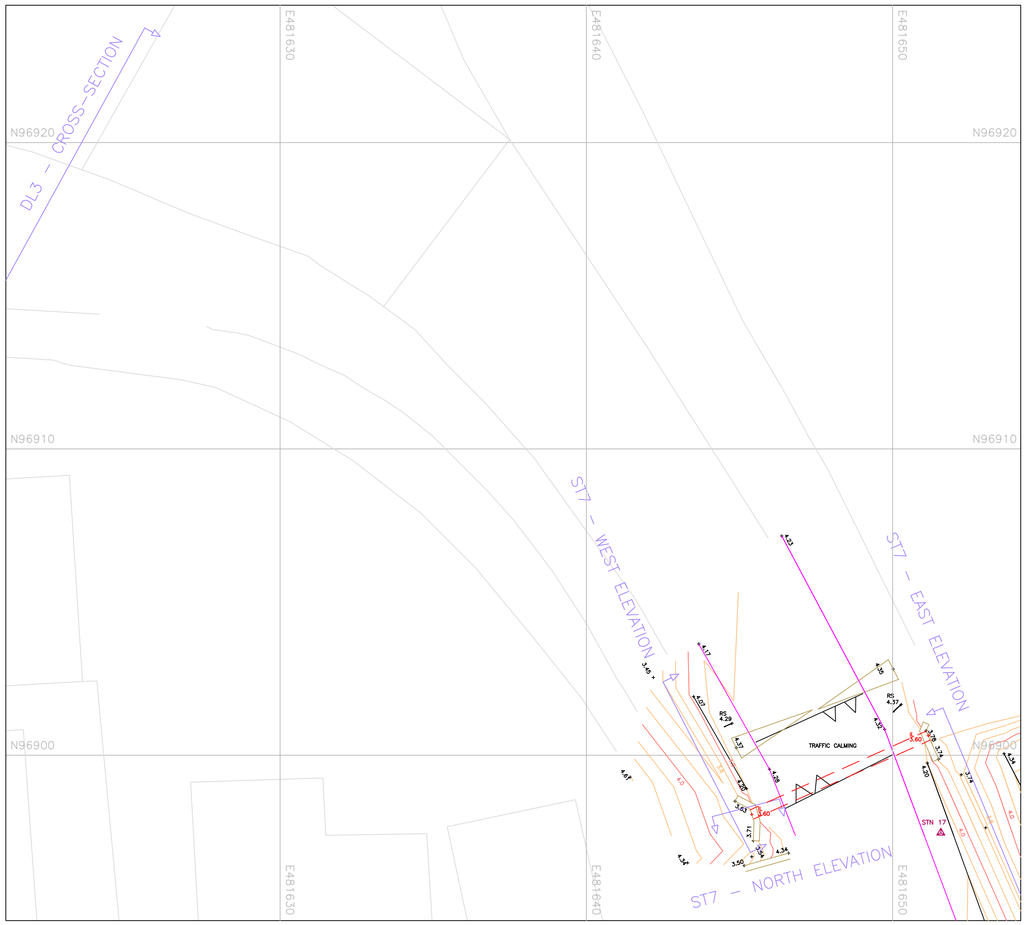
DRAWING

Survey of structures and cross–sections – DL–B

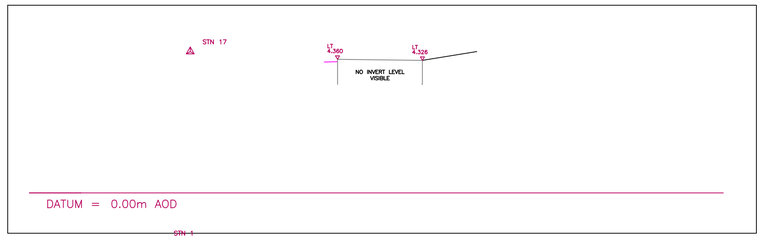
SCALE	DATE
1:100 (A1)	22/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_21	–

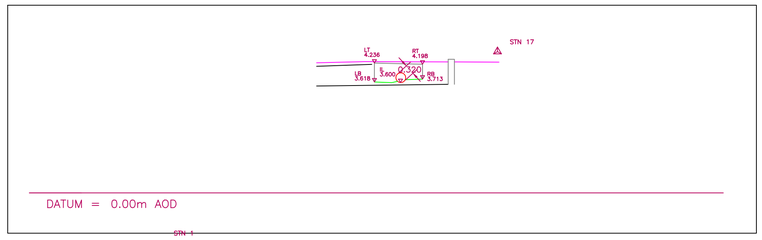
PLAN OF STRUCTURE ST7



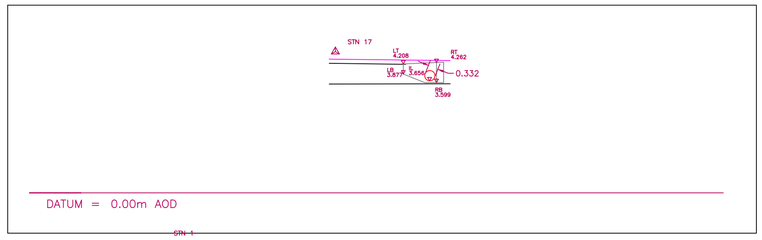
ST7 NORTH ELEVATION



ST7 WEST ELEVATION



ST7 EAST ELEVATION



KEY

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WL	Water Line
IC	In Channel
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Applies to Arch, Culvert or Head Wall	
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P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
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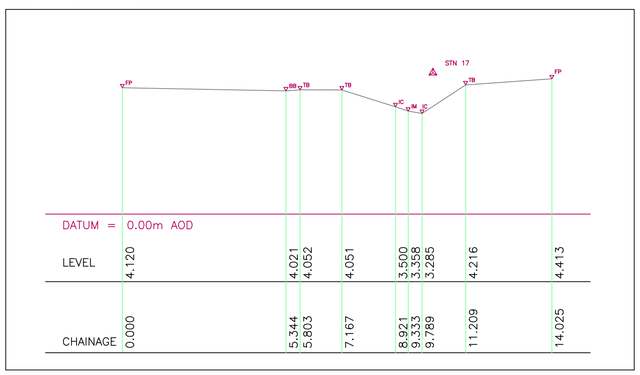
DL3 – CROSS–SECTION



Notes

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Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

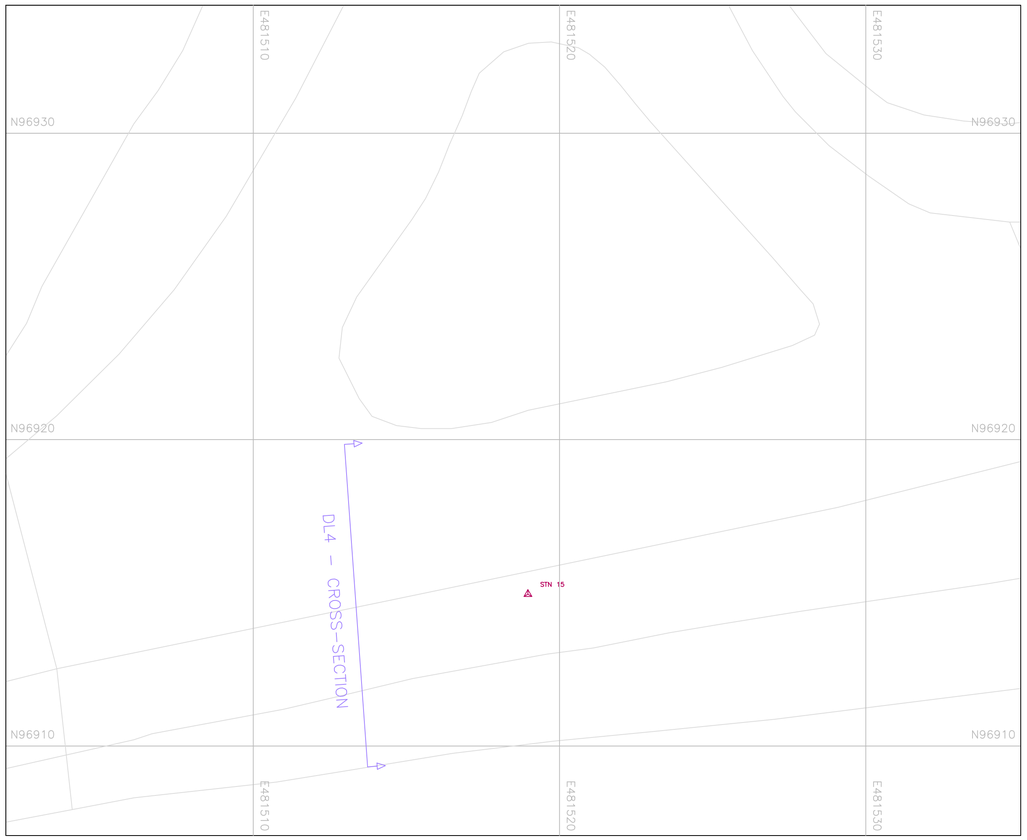
DRAWING

Survey of structures and cross–sections – DL–C

SCALE	DATE
1:100 (A1)	22/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_22	–

PLAN OF ELEVATION – DL4



KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
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Applies to Arch, Culvert or Head Wall	
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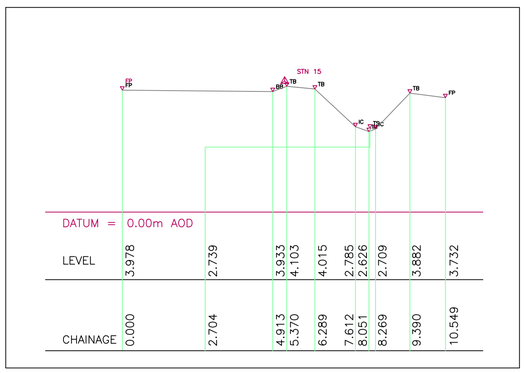
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL4 – CROSS–SECTION



Notes

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Grid co–ordinates and levels are based upon the Ordnance Survey

REVISION	DESCRIPTION	DATE

MERIDIAN
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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

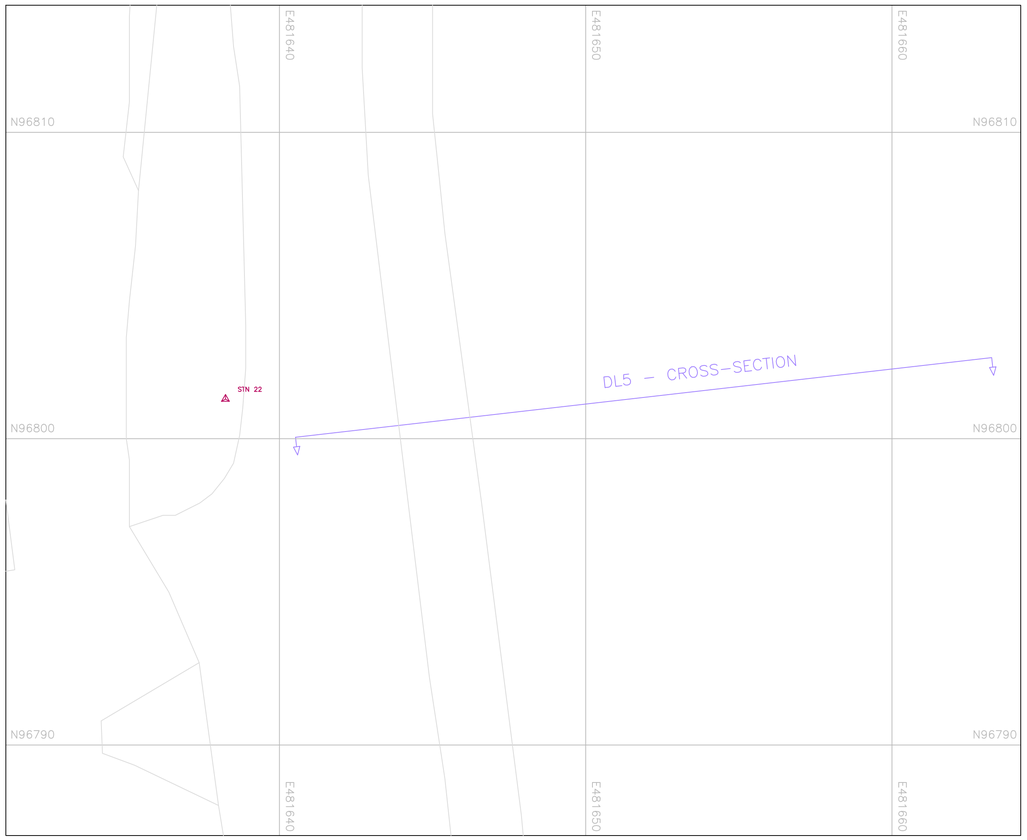
DRAWING

Survey of structures and cross–sections – DL–D

SCALE	DATE
1:100 (A1)	22/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_23	–

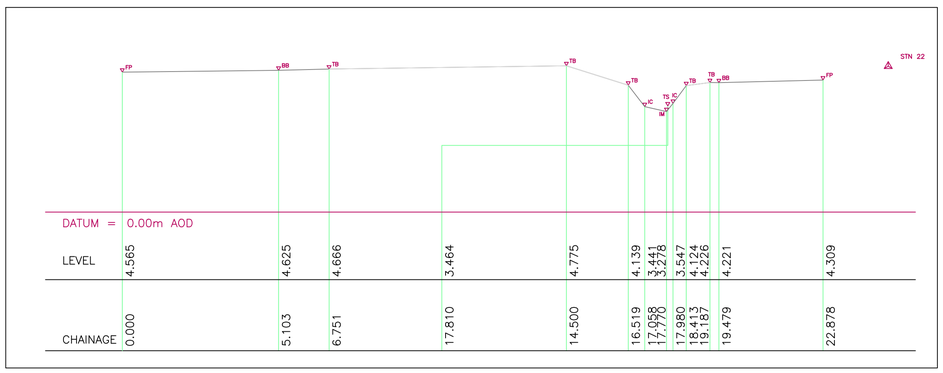
PLAN OF CROSS–SECTION – DL5



KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
LT	Left Top
RT	Right Top
LB	Left Bottom
RB	Right Bottom
BL	Base Level
IL	Invert Level
TS	Top of Silt
FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
TP	Telegraph pole
B/W	Barbed wire fence
C/B	Close boarded fence
C/L	Chain link fence
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL5 – CROSS–SECTION



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REVISION	DESCRIPTION	DATE
A	CORRECTED 99mm HEIGHT	5/7/19

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CUSTOMER

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PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

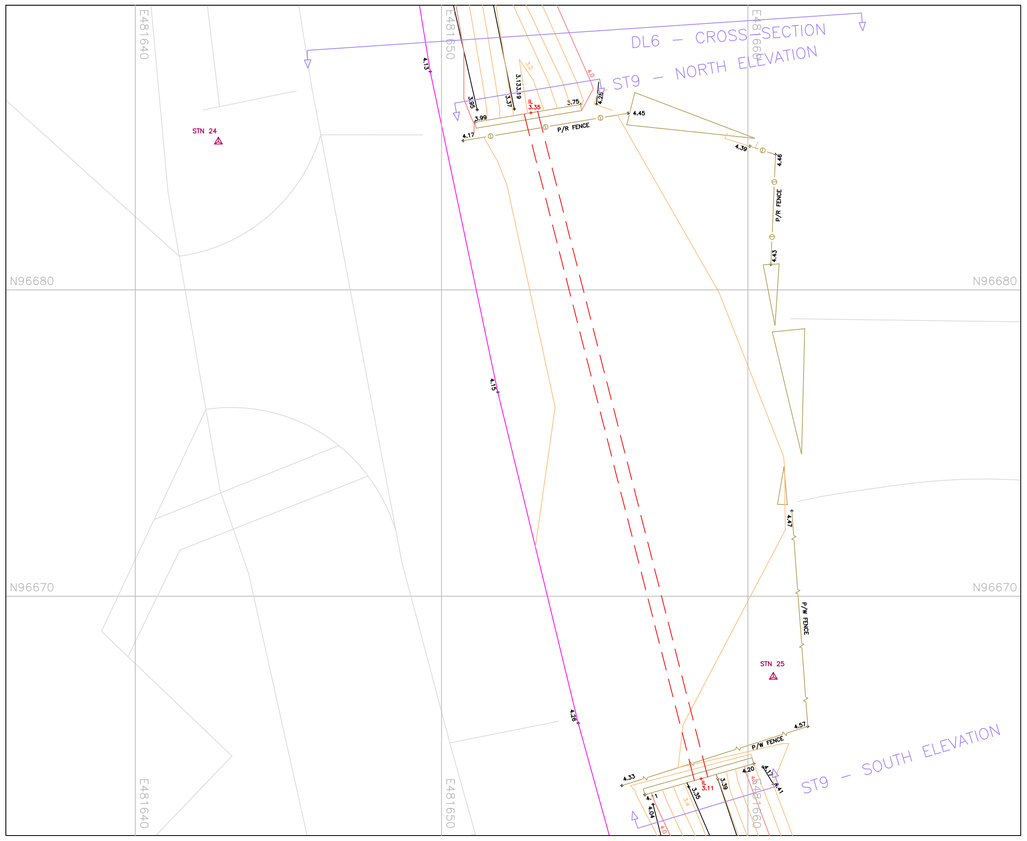
DRAWING

Survey of structures and cross–sections – DL–E

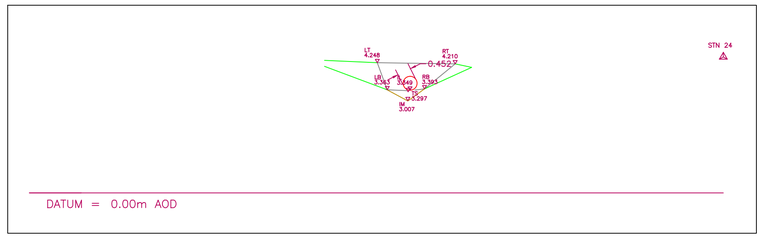
SCALE	DATE
1:100 (A1)	23/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_24	A

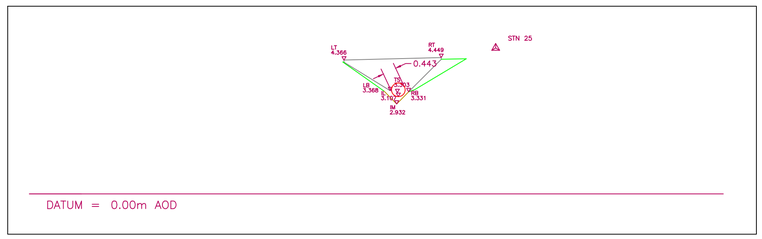
PLAN OF STRUCTURE – ST9



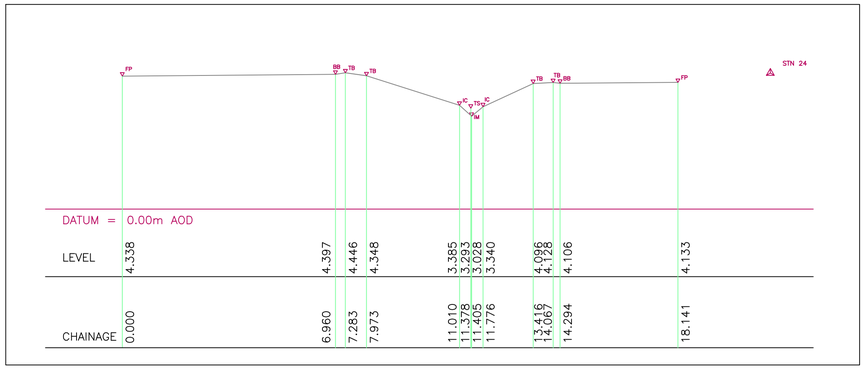
ST9 NORTH ELEVATION



ST9 SOUTH ELEVATION



DL6 – CROSS–SECTION



KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
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FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
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I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

Notes

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Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

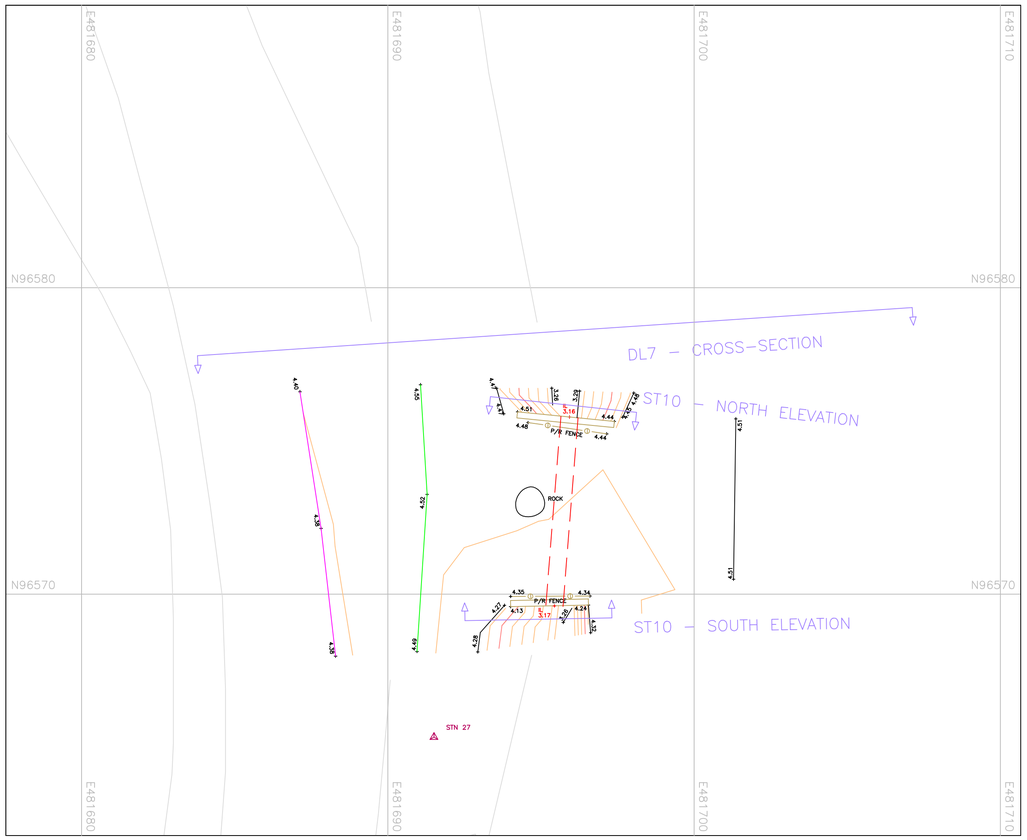
DRAWING

Survey of structures and cross–sections – DL–F

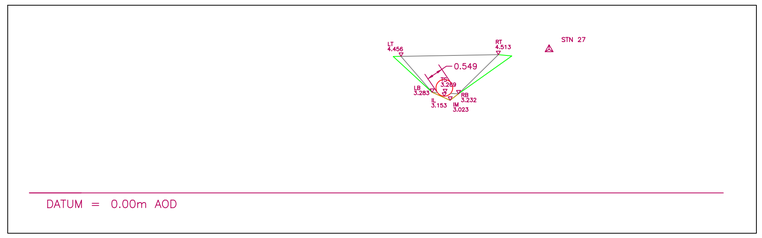
SCALE	DATE
1:100 (A1)	23/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_25	–

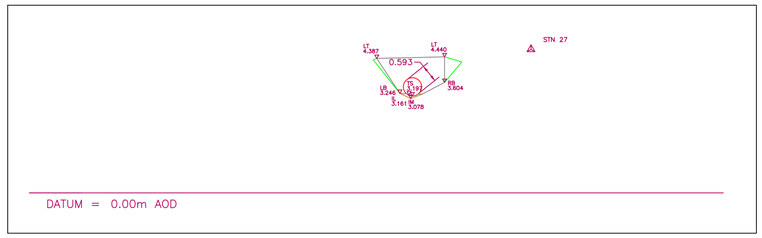
PLAN OF STRUCTURE – ST10



ST10 NORTH ELEVATION



ST10 SOUTH ELEVATION



KEY

FP	Flood Plain
BB	Bottom of Bank
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IC	In Channel
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Applies to Arch, Culvert or Head Wall	
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RB	Right Bottom
BL	Base Level
IL	Invert Level
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GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
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C/L	Chain link fence
C/P	Chestnut paling fence
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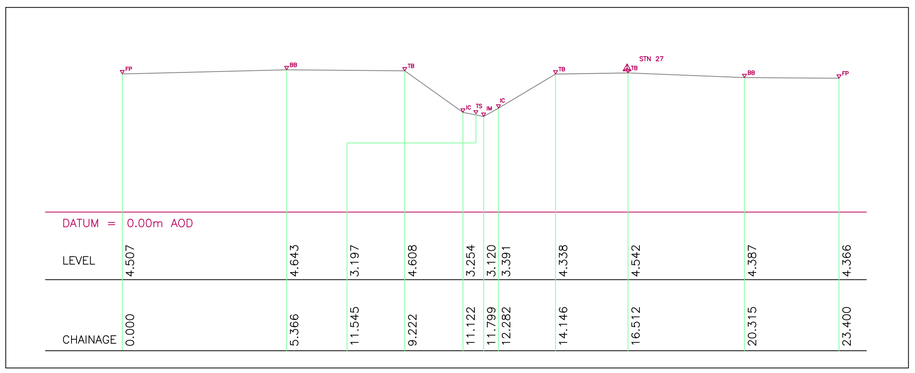
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL7 – CROSS–SECTION



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Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

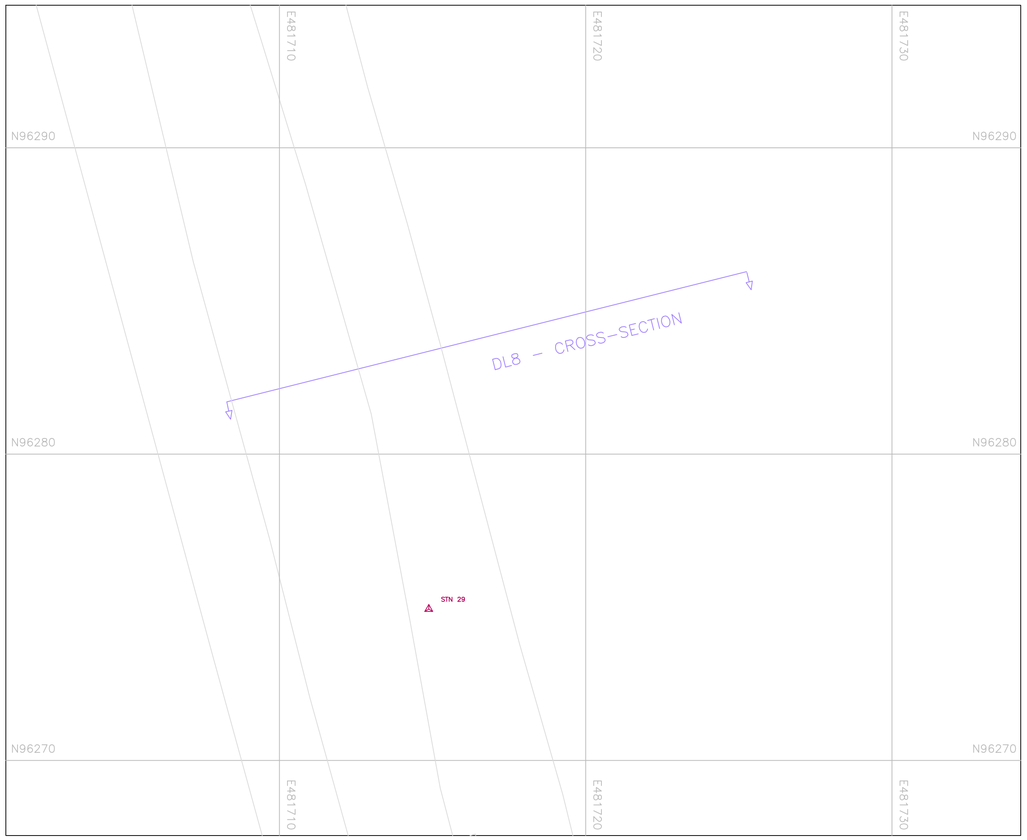
DRAWING

Survey of structures and cross–sections – DL–G

SCALE	DATE
1:100 (A1)	24/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_26	–

PLAN OF CROSS–SECTION – DL8



KEY

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P/R	Post and rail fence
P/W	Post and wire fence
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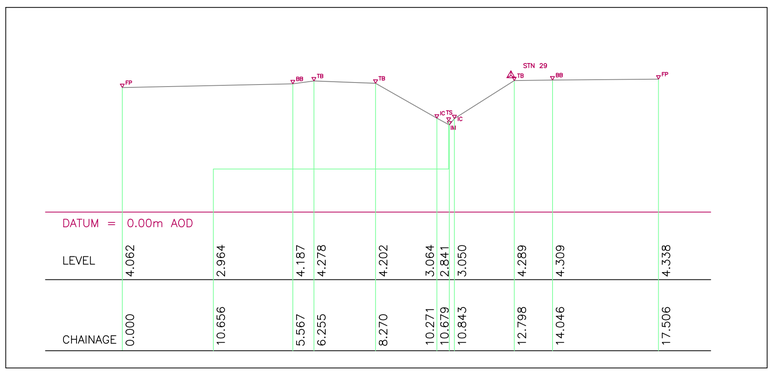
RTW	Retaining wall
SSF	Steel security fence

DL8 – CROSS–SECTION



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PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

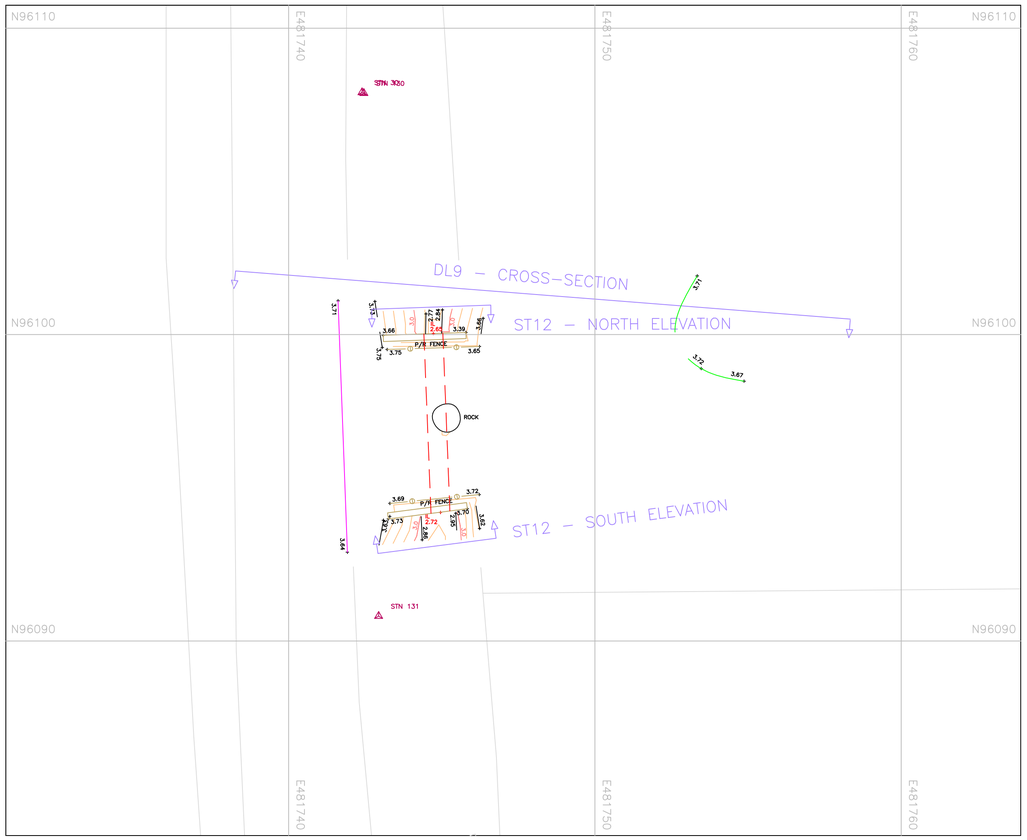
DRAWING

Survey of structures and cross–sections – DL–H

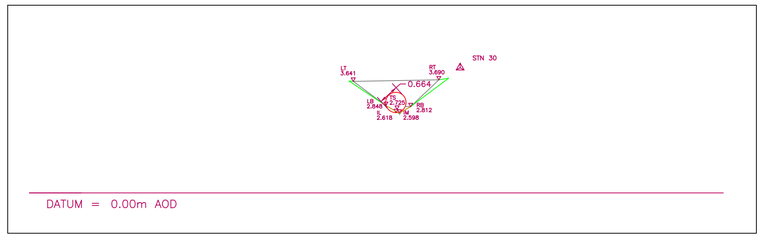
SCALE	DATE
1:100 (A1)	24/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_27	–

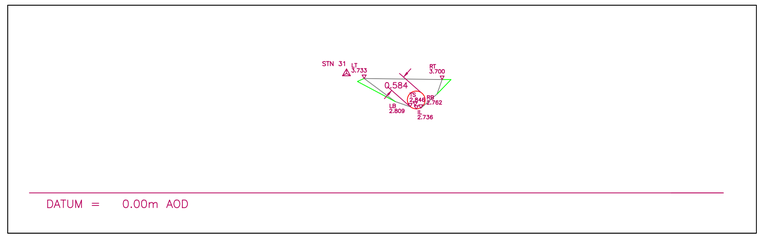
PLAN OF STRUCTURE – ST12



ST12 – NORTH ELEVATION



ST12 – SOUTH ELEVATION



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Notes

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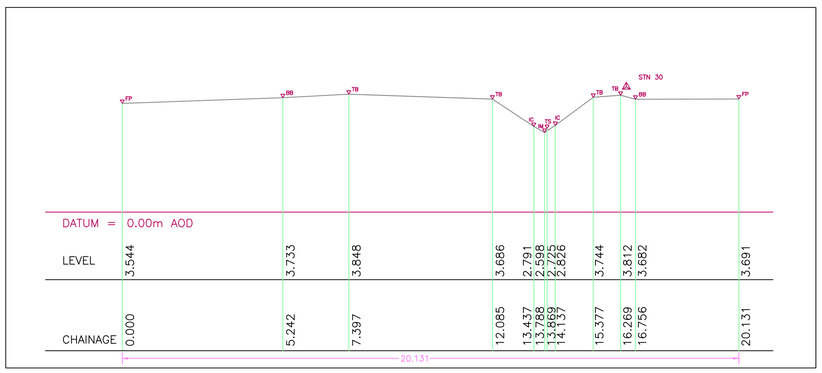
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL9 – CROSS–SECTION



REVISION	DESCRIPTION	DATE

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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

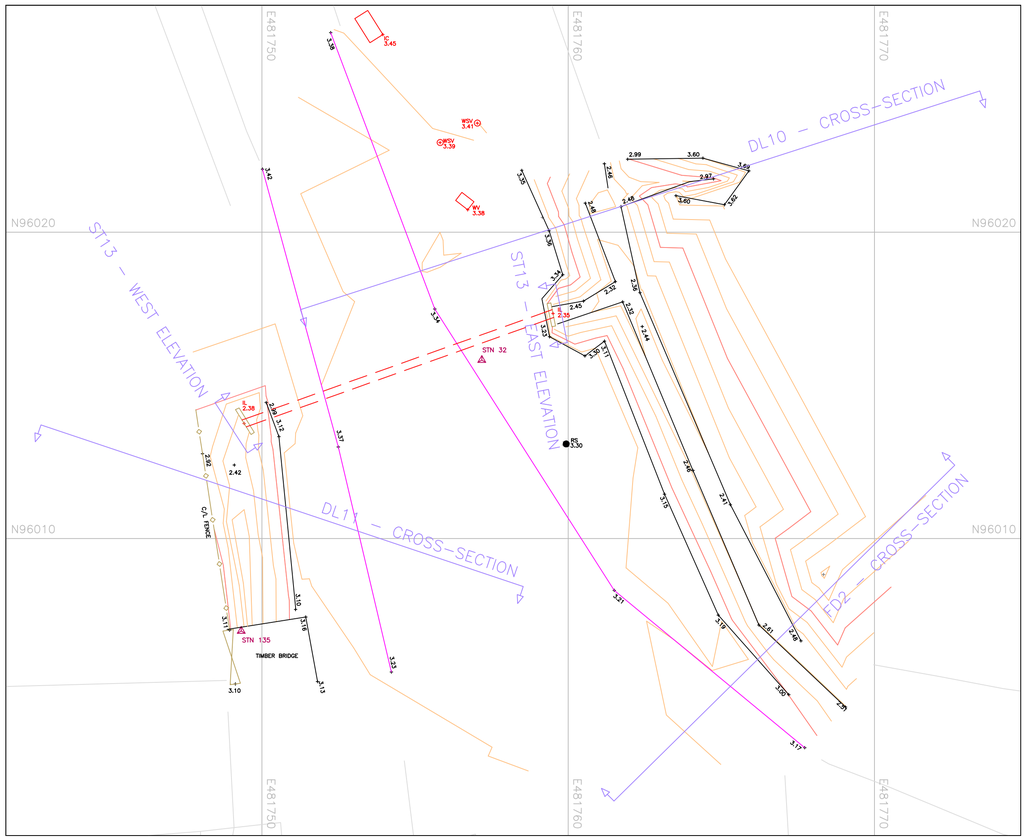
DRAWING

Survey of structures and cross–sections – DL–I

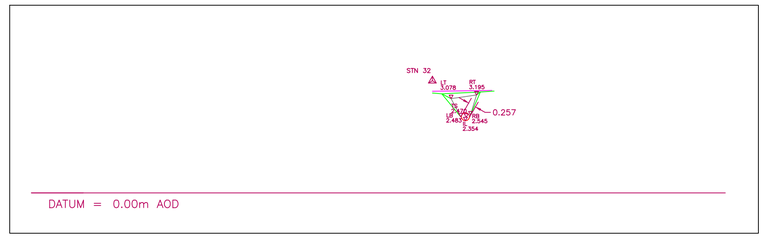
SCALE	DATE
1:100 (A1)	24/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_28	–

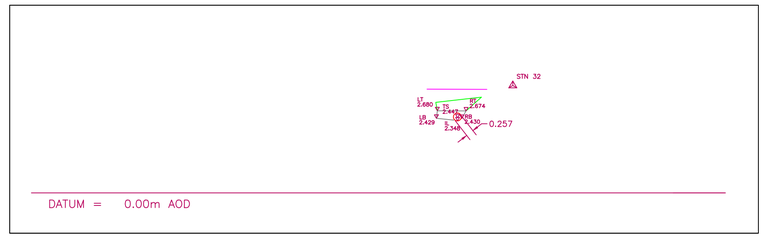
PLAN OF STRUCTURE – ST13



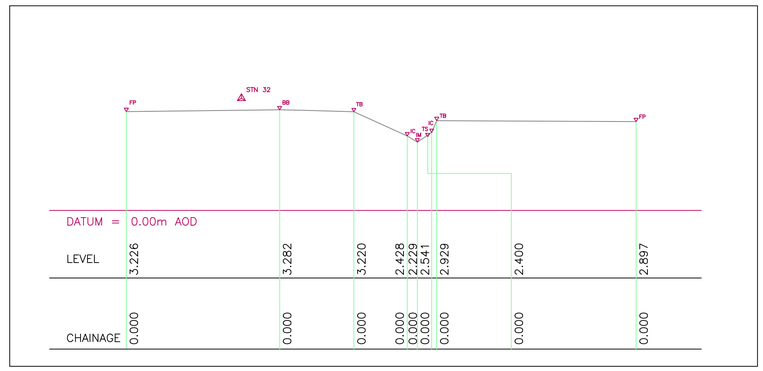
ST13 – EAST ELEVATION



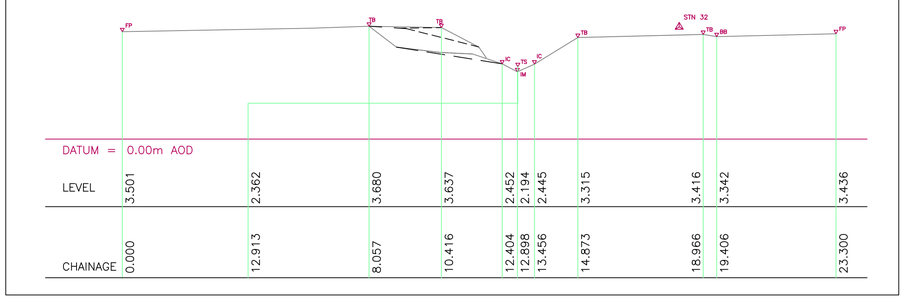
ST13 – WEST ELEVATION



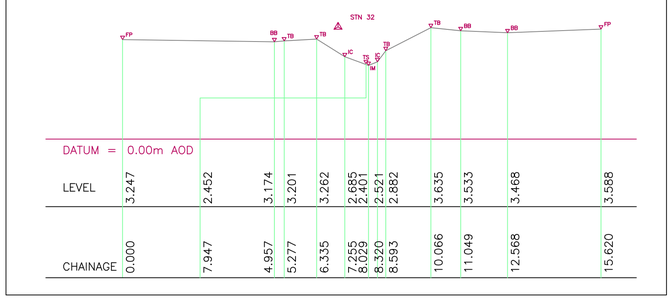
DL11 – CROSS–SECTION



DL10 – CROSS–SECTION



FD2 – CROSS–SECTION



KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
	Applies to Arch, Culvert or Head Wall
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I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
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Notes

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REVISION	DESCRIPTION	DATE

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PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

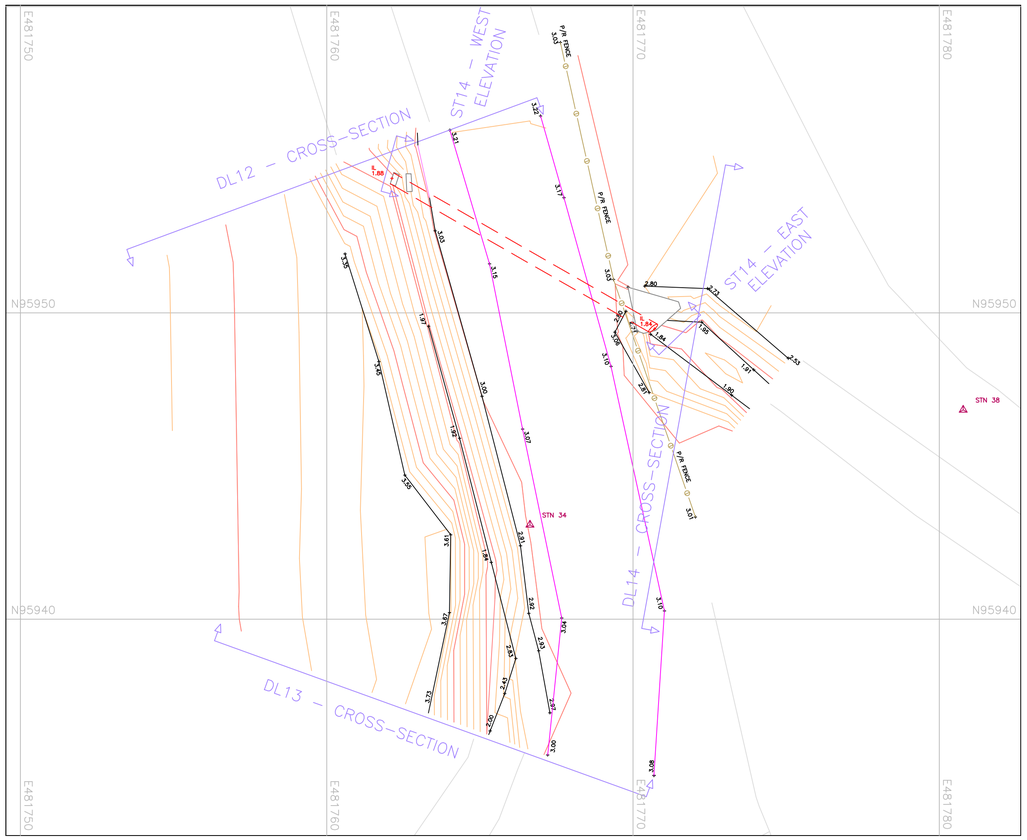
DRAWING

Survey of structures and cross–sections – DL–J

SCALE	DATE
1:100 (A1)	24/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_29	–

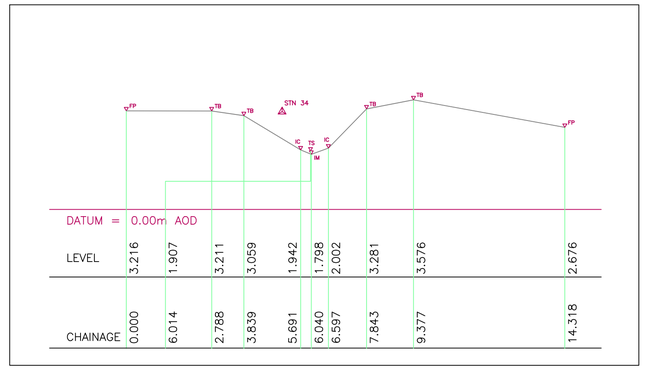
PLAN OF STRUCTURE – ST14



ST14 – WEST ELEVATION

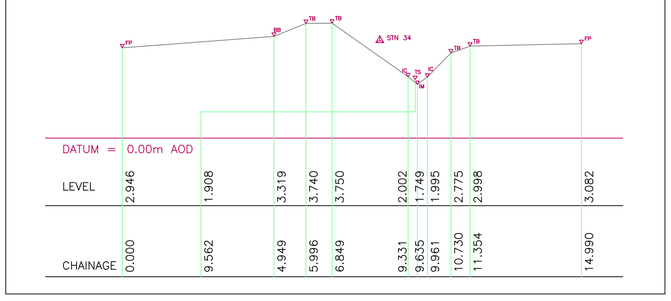
ST14 – EAST ELEVATION

DL12 – CROSS–SECTION



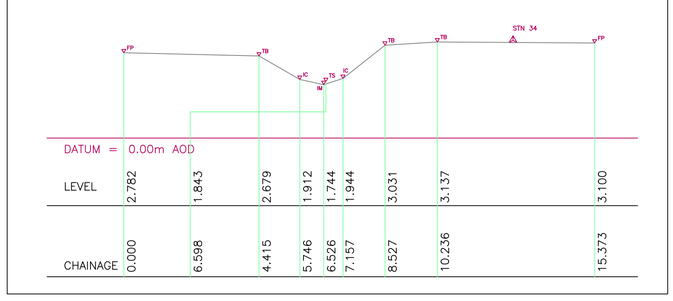
LEVEL	3.216	1.907	3.211	3.059	1.942	1.798	2.002	3.281	3.576	2.676
CHAINAGE	0.000	6.014	2.788	3.839	5.691	6.040	6.597	7.843	9.377	14.318

DL13 – CROSS–SECTION



LEVEL	2.946	1.908	3.319	3.740	3.750	2.002	1.749	1.995	2.775	2.998	3.082
CHAINAGE	0.000	9.562	4.949	5.996	6.849	9.331	9.635	9.961	10.730	11.354	14.990

DL14 – CROSS–SECTION



LEVEL	2.782	1.843	2.679	1.912	1.744	1.944	3.031	3.137	3.100
CHAINAGE	0.000	6.598	4.415	5.746	6.526	7.157	8.527	10.236	15.373

KEY

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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

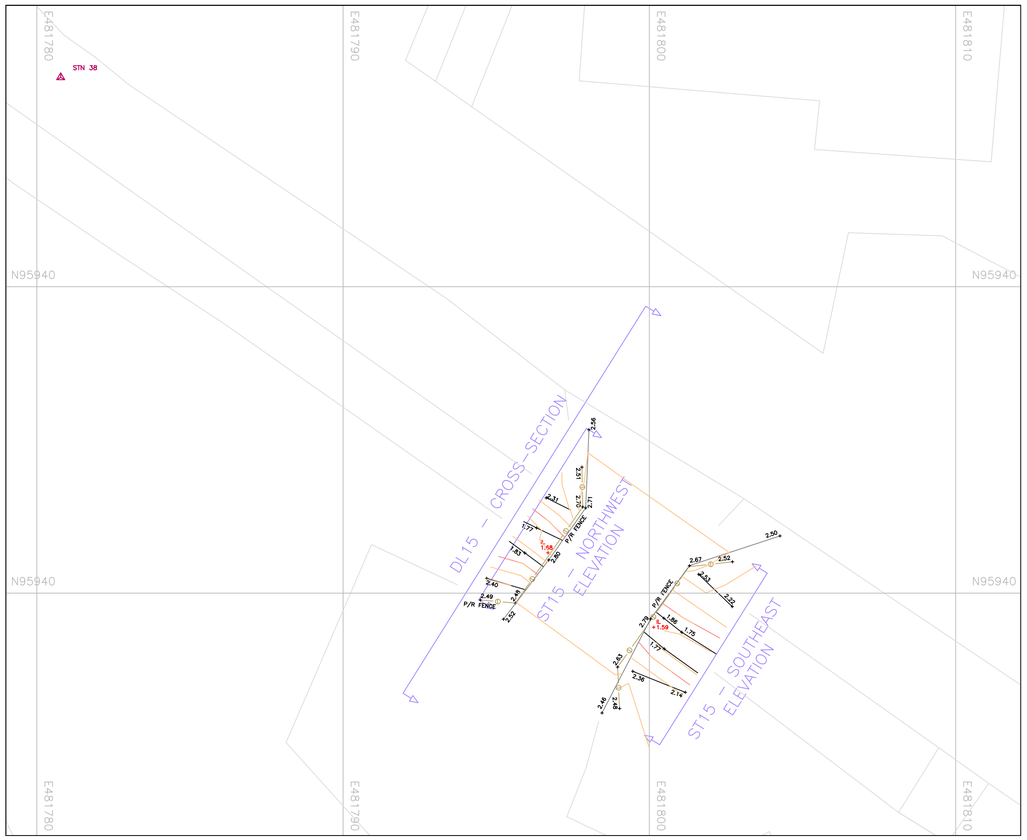
DRAWING

Survey of structures and cross–sections – DL–K

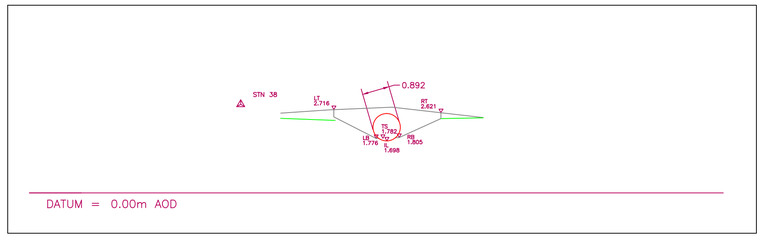
SCALE	DATE
1:100 (A1)	25/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_30	–

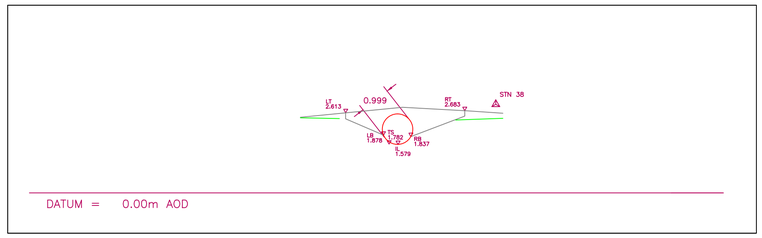
PLAN OF STRUCTURE – ST15



ST15 – NORTHWEST ELEVATION



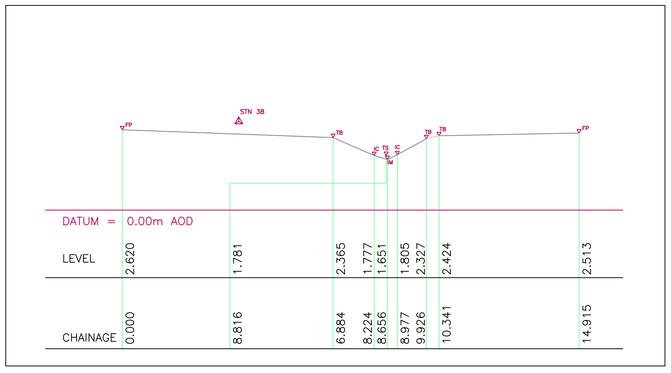
ST15 – SOUTHEAST ELEVATION



KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
LT	Left Top
RT	Right Top
LB	Left Bottom
RB	Right Bottom
BL	Base Level
IL	Invert Level
TS	Top of Silt
FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
TP	Telegraph pole
B/W	Barbed wire fence
C/B	Close boarded fence
C/L	Chain link fence
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL15 – CROSS–SECTION



Notes

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Grid co–ordinates and levels are based upon the Ordnance Survey

REVISION	DESCRIPTION	DATE
A	CORRECTED DATUM	5/7/19

MERIDIAN
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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

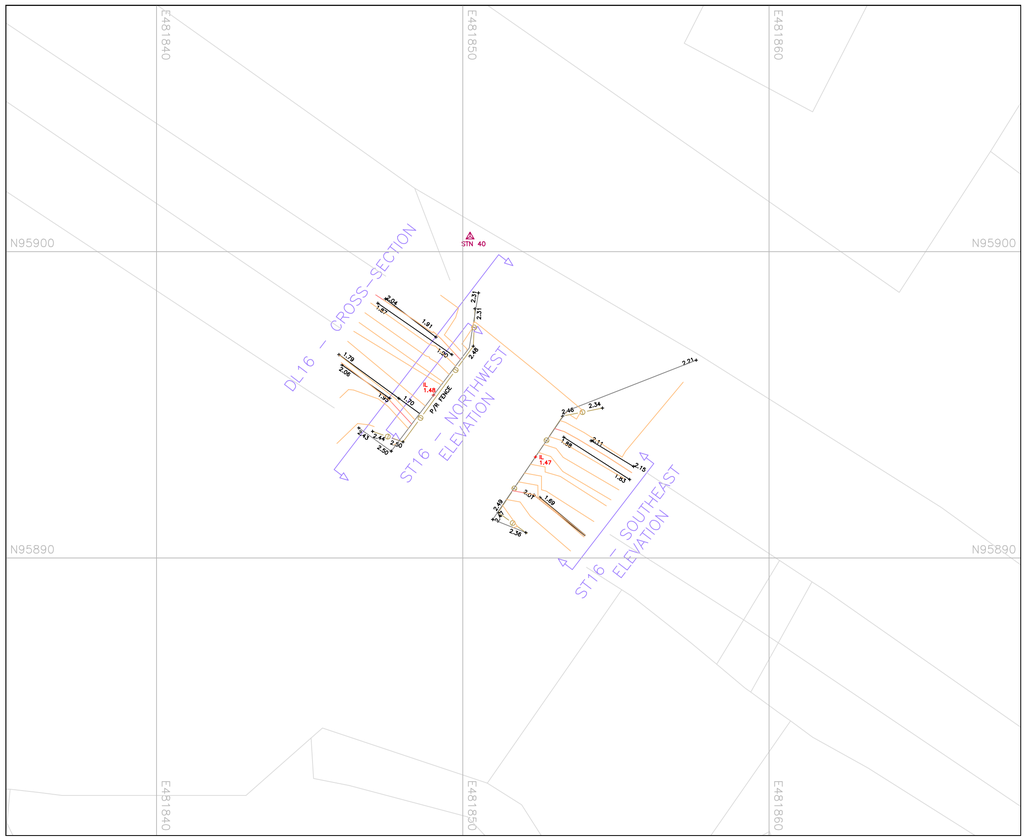
DRAWING

Survey of structures and cross–sections – DL–L

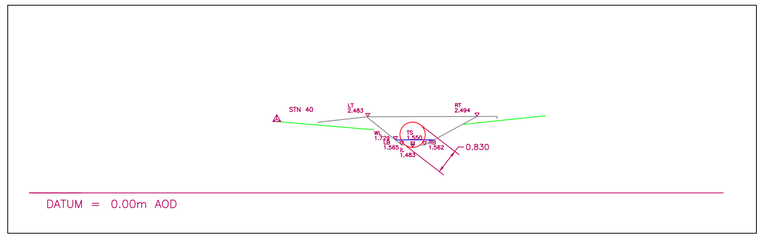
SCALE	DATE
1:100 (A1)	25/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_31	A

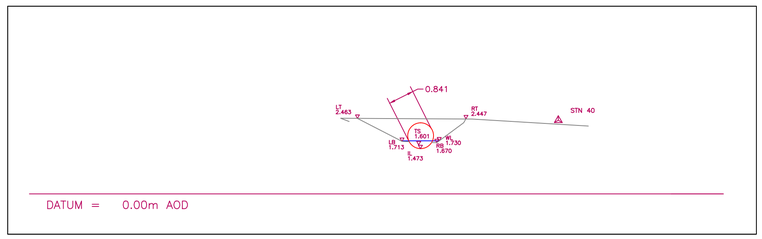
PLAN OF STRUCTURE – ST16



ST16 – NORTHWEST ELEVATION



ST16 – SOUTHEAST ELEVATION



Notes

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Grid co–ordinates and levels are based upon the Ordnance Survey

REVISION	DESCRIPTION	DATE
A	DATUM AMENDED	5/7/19

KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
LT	Left Top
RT	Right Top
LB	Left Bottom
RB	Right Bottom
BL	Base Level
IL	Invert Level
TS	Top of Silt
FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
TP	Telegraph pole
B/W	Barbed wire fence
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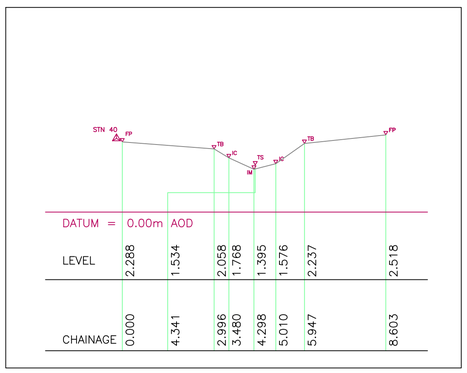
C/L	Chain link fence
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL16 – CROSS–SECTION



CHAINAGE	0.000	4.341	2.996	3.480	4.298	5.010	5.947	8.603
LEVEL	2.288	1.534	2.058	1.768	1.395	1.576	2.237	2.518

MERIDIAN
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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

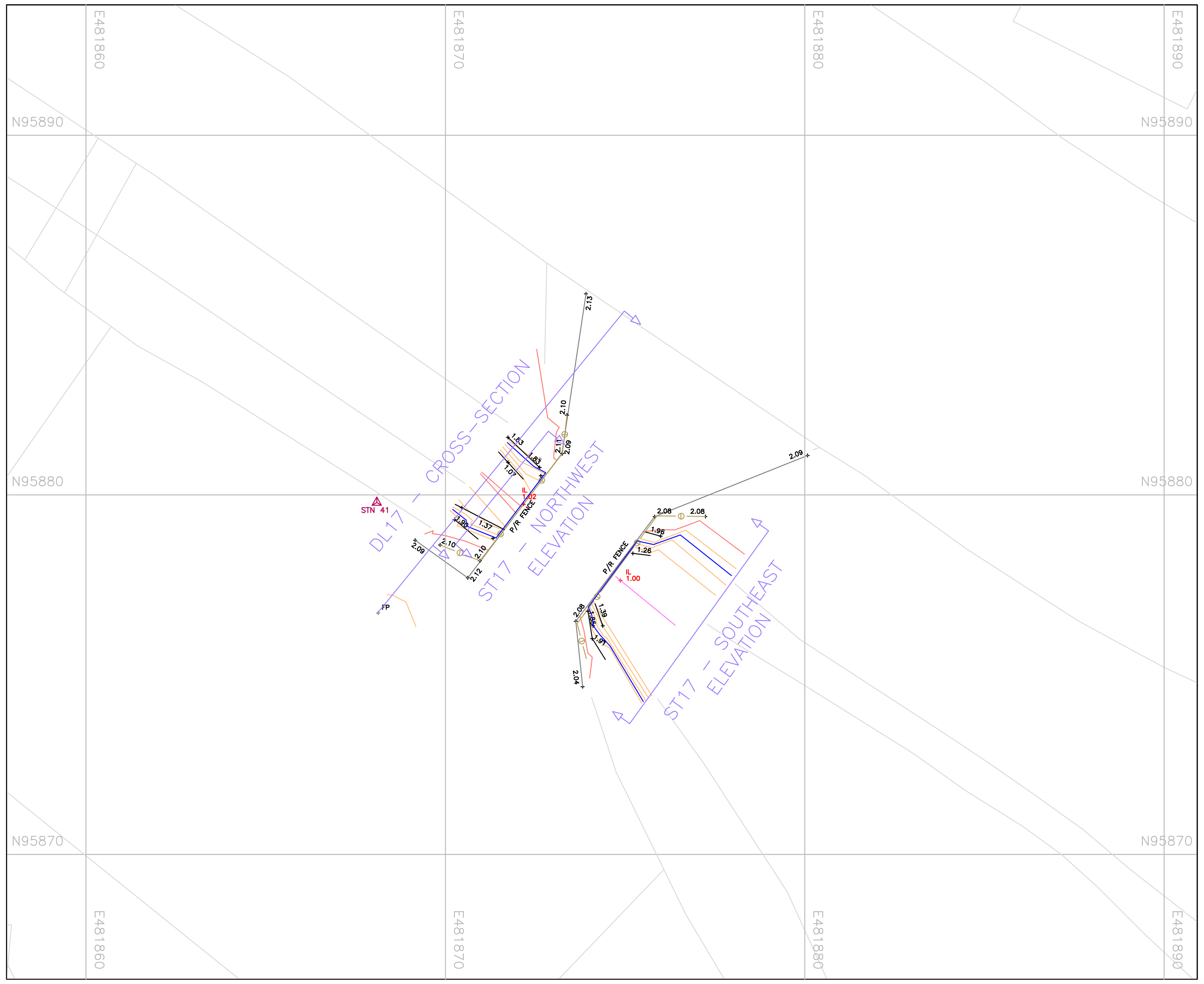
DRAWING

Survey of structures and cross–sections – DL–M

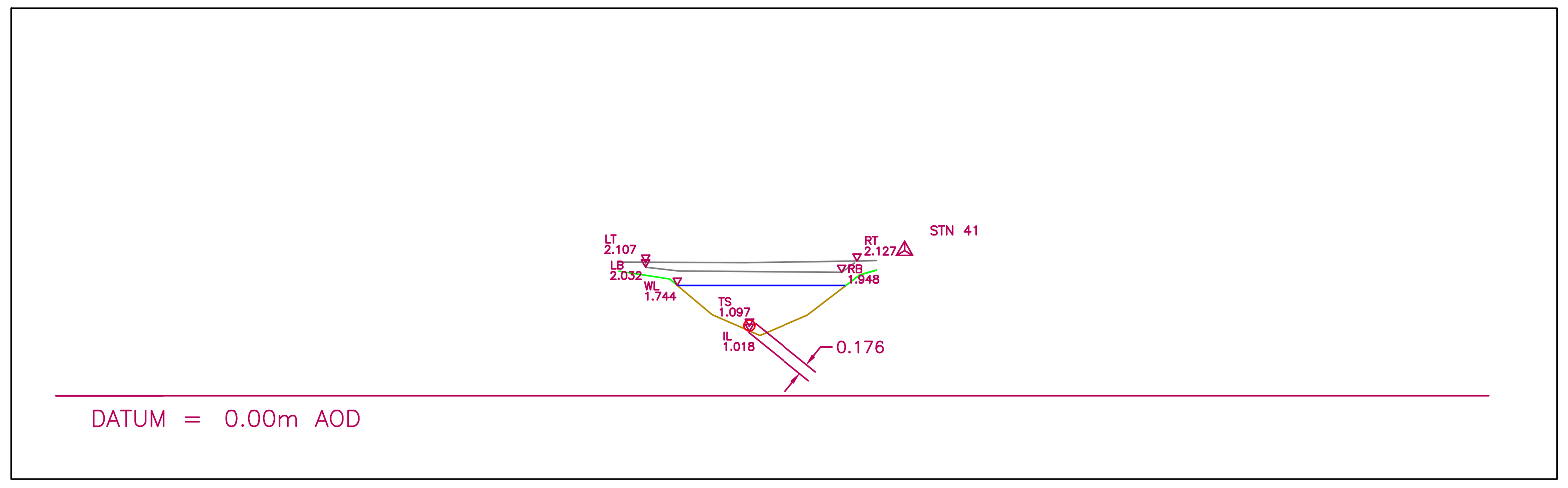
SCALE	DATE
1:100 (A1)	25/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_32	A

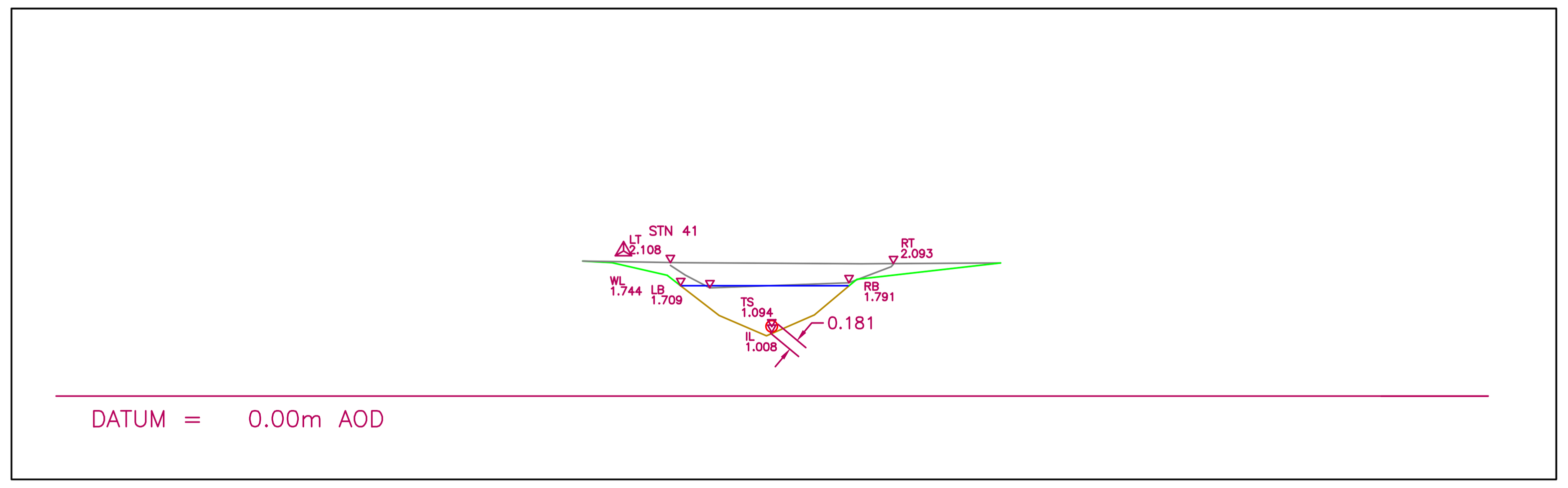
PLAN OF STRUCTURE – ST17



ST17 – NORTHWEST ELEVATION



ST17 – SOUTHEAST ELEVATION



Notes

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Grid co-ordinates and levels are based upon the Ordnance Survey

REVISION	DESCRIPTION	DATE

KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid-point

Applies to Arch, Culvert or Head Wall

SL	Soffit Level
LT	Left Top
RT	Right Top
LB	Left Bottom
RB	Right Bottom
BL	Base Level
IL	Invert Level
TS	Top of Silt
FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
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WSV	Water stop valve
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OSBM	OS bench mark
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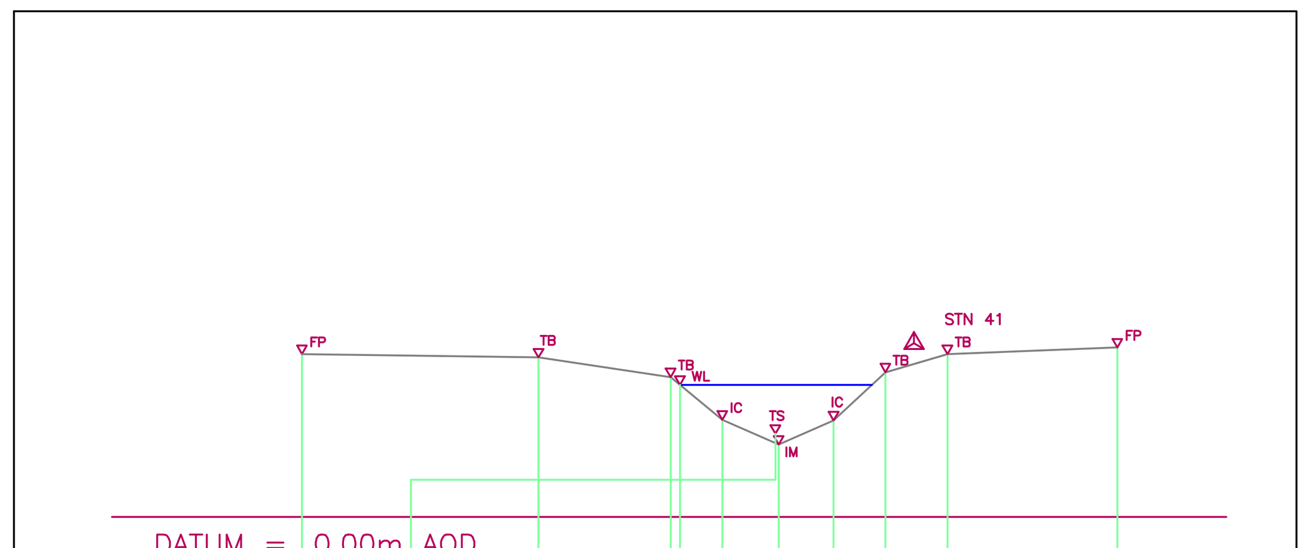
B/W	Barbed wire fence
C/B	Close boarded fence
C/L	Chain link fence
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL17 – CROSS-SECTION



LEVEL	2.149	1.097	2.106	1.845	1.743	1.281	0.953	1.274	1.908	2.149	2.237
CHAINAGE	0.000	6.255	3.125	4.871	4.994	5.555	6.299	7.024	7.708	8.529	10.773

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CUSTOMER
Manhire LLP

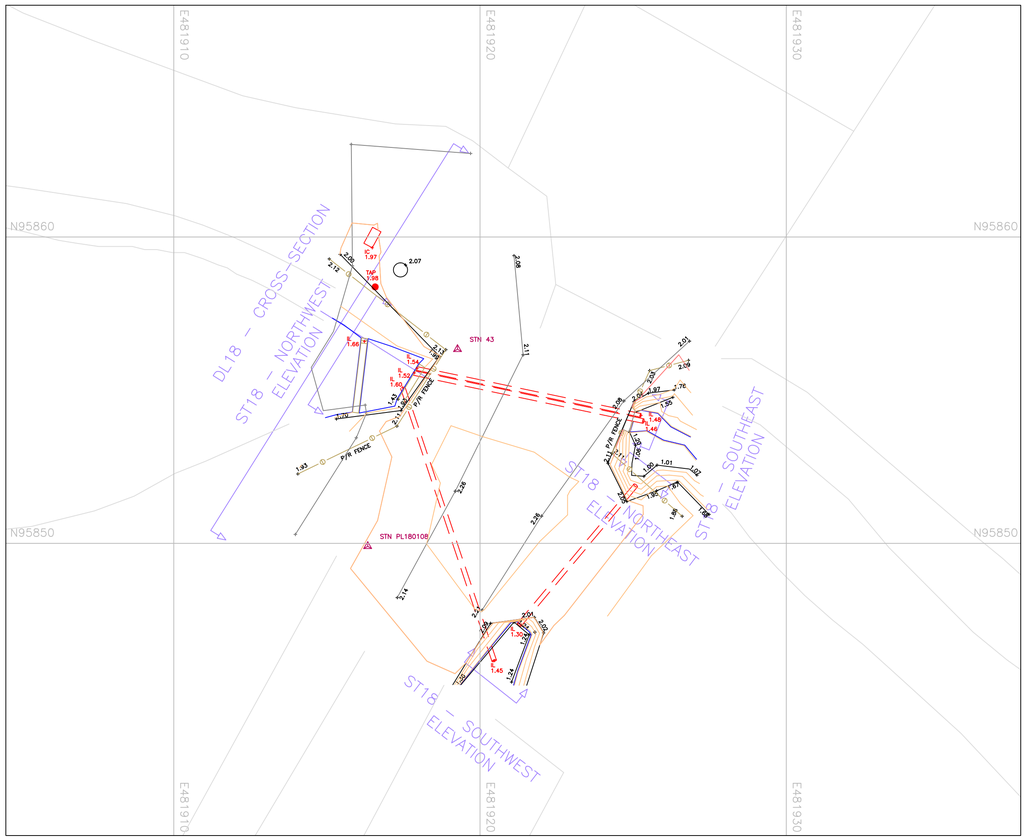
PROJECT
Earnley Watercourse, floodplain and structure fluvial modelling

DRAWING
Survey of structures and cross-sections – DL-N

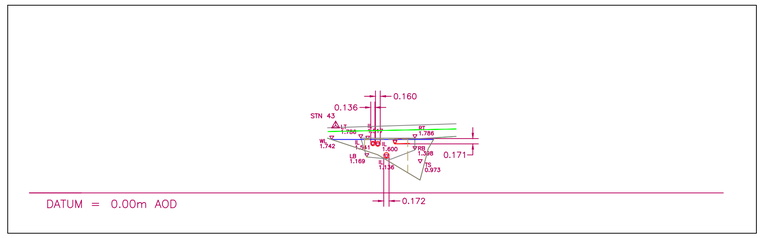
SCALE	DATE
1:100 (A1)	25/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_33	–

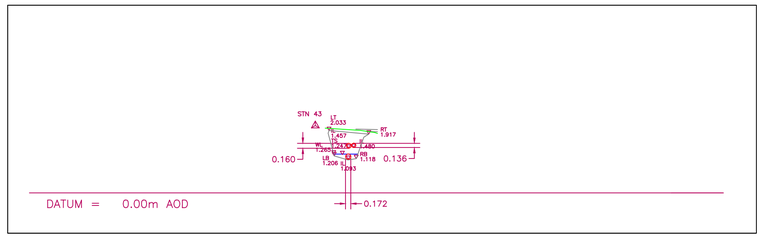
PLAN OF STRUCTURE – ST18



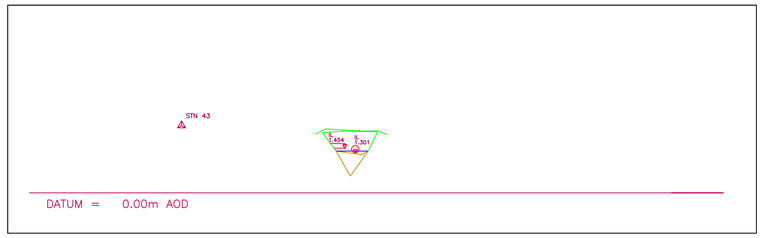
ST18 – NORTHWEST ELEVATION



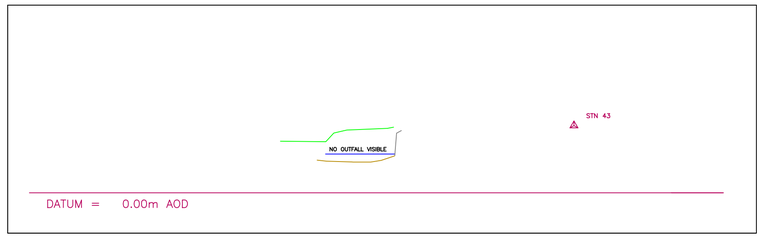
ST18 – SOUTHEAST ELEVATION



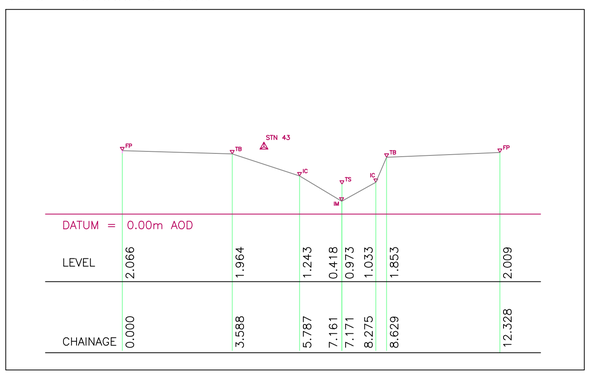
ST18 – SOUTHWEST ELEVATION



ST18 – NORTHEAST ELEVATION



DL18 – CROSS–SECTION



KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
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I/W	Interwoven fence
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L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

Notes

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Grid co–ordinates and levels are based upon the Ordnance Survey

REVISION	DESCRIPTION	DATE
A	AMEND DATUM	5/7/19

MERIDIAN
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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

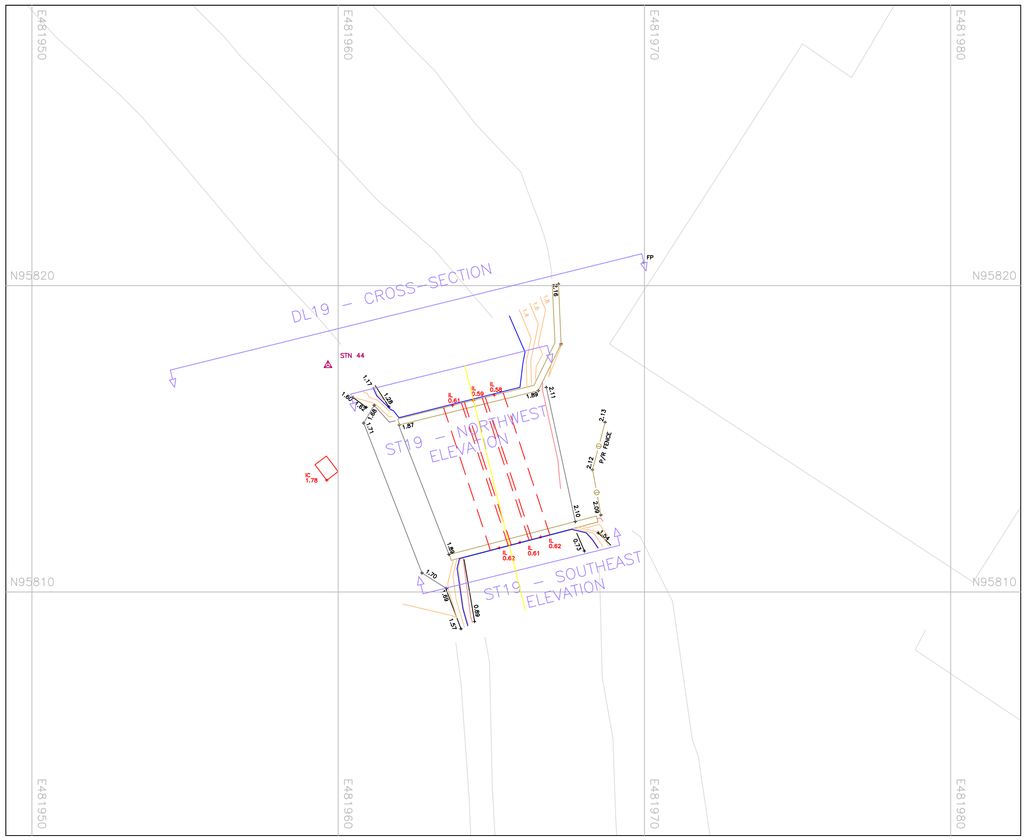
DRAWING

Survey of structures and cross–sections – DL–0

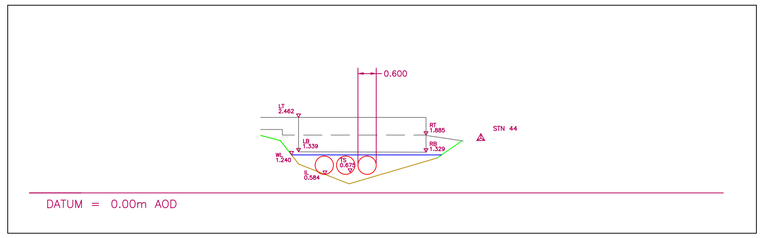
SCALE	DATE
1:100 (A1)	25/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_34	A

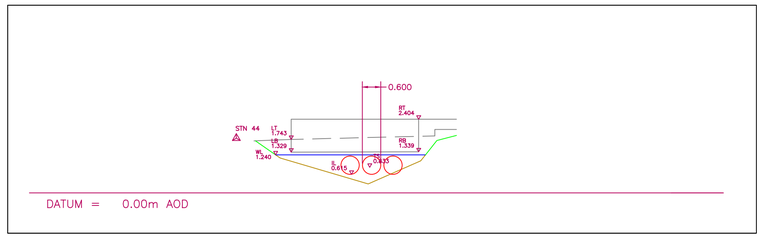
PLAN OF STRUCTURE – ST19



ST19 – NORTHWEST ELEVATION



ST19 – SOUTHEAST ELEVATION



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Notes

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KEY

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Applies to Arch, Culvert or Head Wall	
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C/L	Chain link fence
C/P	Chestnut paling fence
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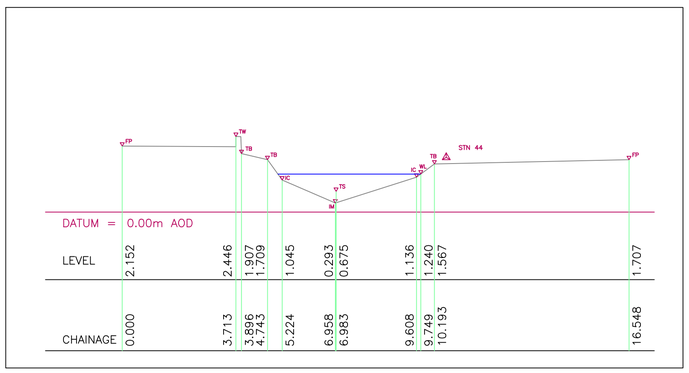
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL19 – CROSS–SECTION



LEVEL	2.152	2.446	1.907	1.709	1.045	0.293	0.675	1.136	1.240	1.567	1.707
CHAINAGE	0.000	3.713	3.896	4.743	5.224	6.958	6.983	9.608	9.749	10.193	16.548

REVISION	DESCRIPTION	DATE

MERIDIAN
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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

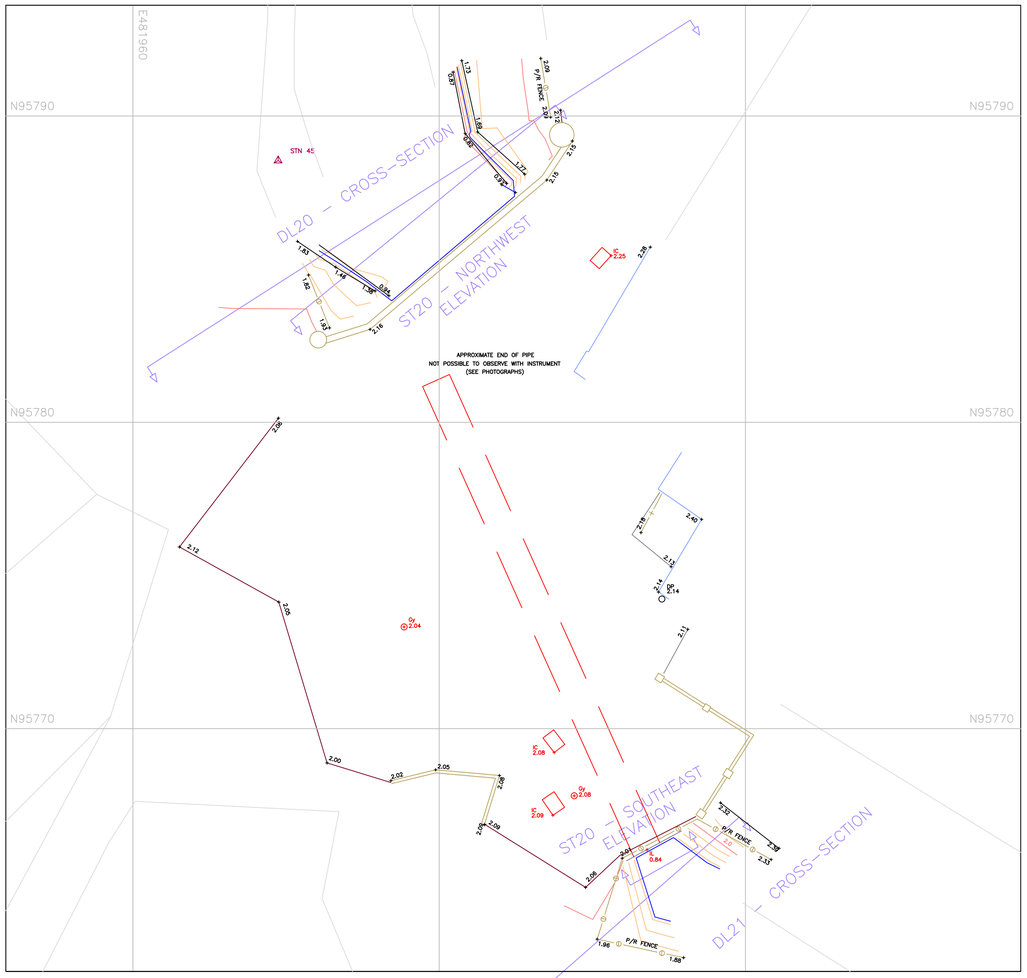
DRAWING

Survey of structures and cross–sections – DL–P

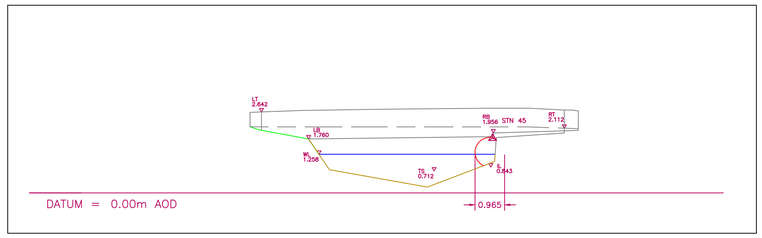
SCALE	DATE
1:100 (A1)	26/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_35	–

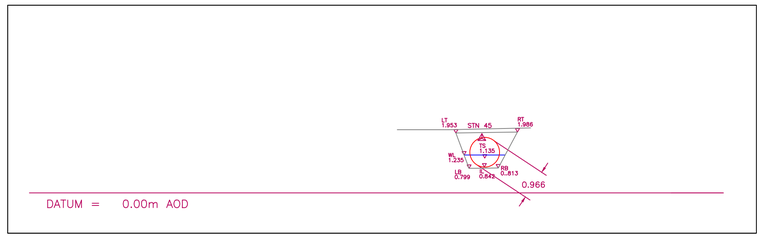
PLAN OF STRUCTURE – ST20



ST20 – NORTHWEST ELEVATION



ST20 – SOUTHEAST ELEVATION



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Notes

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CHECK XYZ FILE AGAINST DL21 CROSS–SECTION

ID Number	Code	Eastings	Northings	Height	Check
DL210000	YYFP	481,969.9654	95,757.8323	2.0836	✓
DL210001	YYTB	481,976.6718	95,762.8109	1.9176	✓
DL210002	YYIC	481,977.4140	95,764.1182	1.1923	✓
DL210003	YYIM	481,978.0750	95,764.9772	0.6957	✓
DL210004	YYIC	481,978.5896	95,765.6673	1.0302	✓
DL210005	YYTB	481,979.7976	95,767.1099	2.3911	✓

KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
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EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
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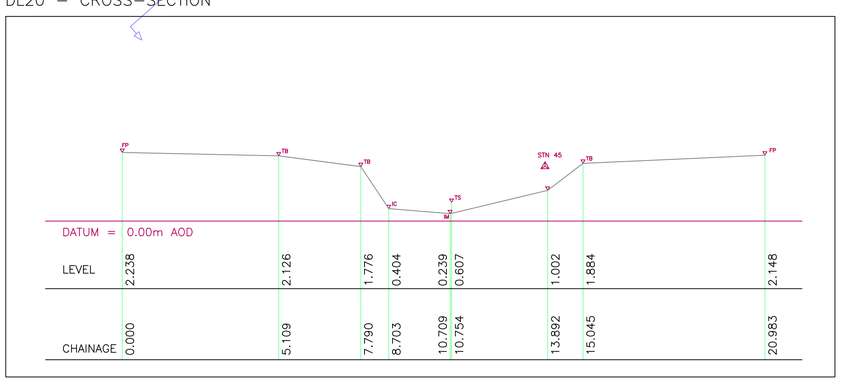
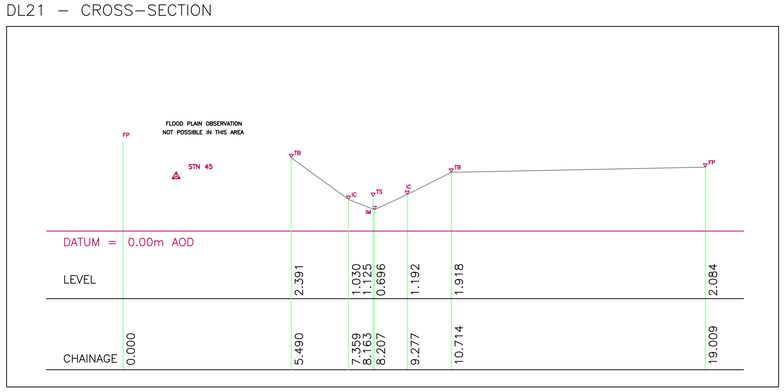
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL20 – CROSS–SECTION



DL21 – CROSS–SECTION



A	DATA IN XYZ FILE REVISED	9/7/19
REVISION	DESCRIPTION	DATE

MERIDIAN
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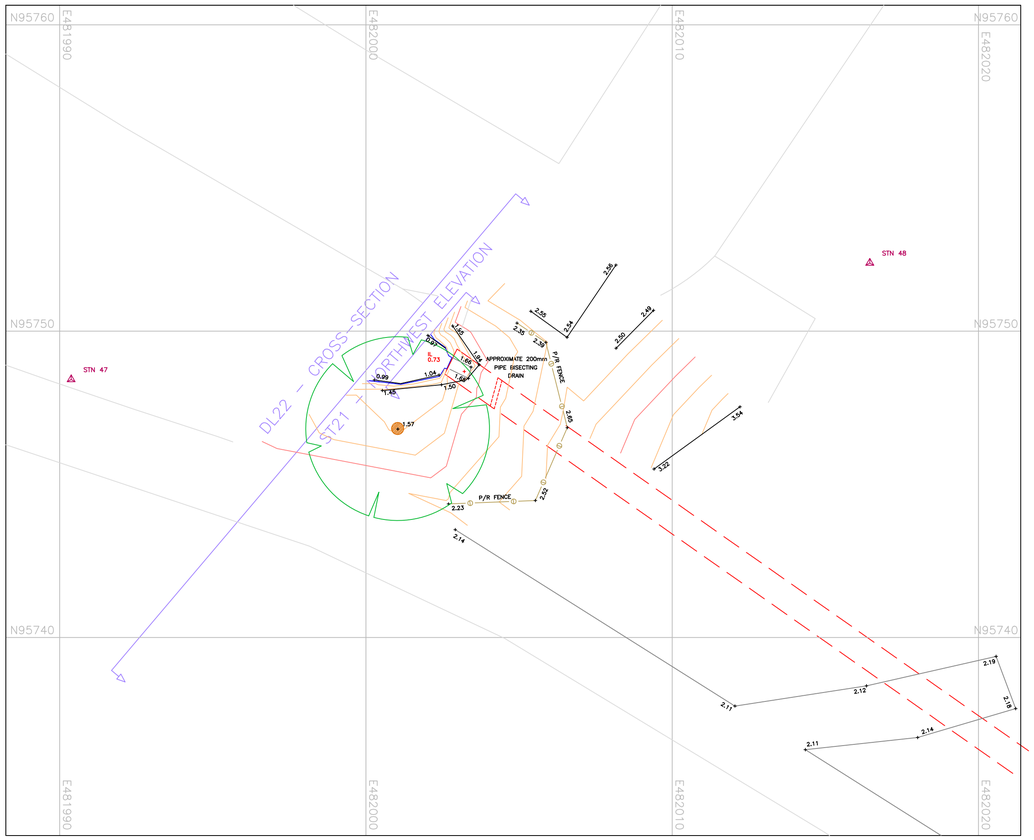
EPSOM ROAD, WEST HORSLEY KT24 6AW
Tel: 07948 603936 – Email: peter@meridiansurvey.co.uk

CUSTOMER
Manhire LLP
PROJECT
Earnley Watercourse, floodplain and structure fluvial modelling
DRAWING
Survey of structures and cross–sections – DL–Q

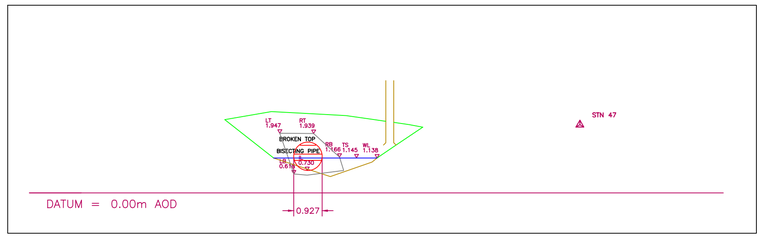
SCALE	DATE
1:100 (A1)	26/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_36	A

PLAN OF STRUCTURE – ST21



ST21 – NORTHWEST ELEVATION



Notes

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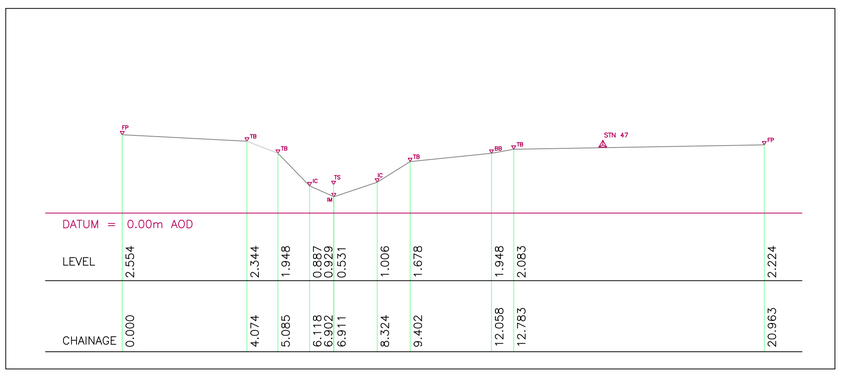
REVISION	DESCRIPTION	DATE
A	XYZ FILE DATA REINSTATED	6/7/19

KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
LT	Left Top
RT	Right Top
LB	Left Bottom
RB	Right Bottom
BL	Base Level
IL	Invert Level
TS	Top of Silt
FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
TP	Telegraph pole
B/W	Barbed wire fence
C/B	Close boarded fence
C/L	Chain link fence
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL22 – CROSS–SECTION



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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

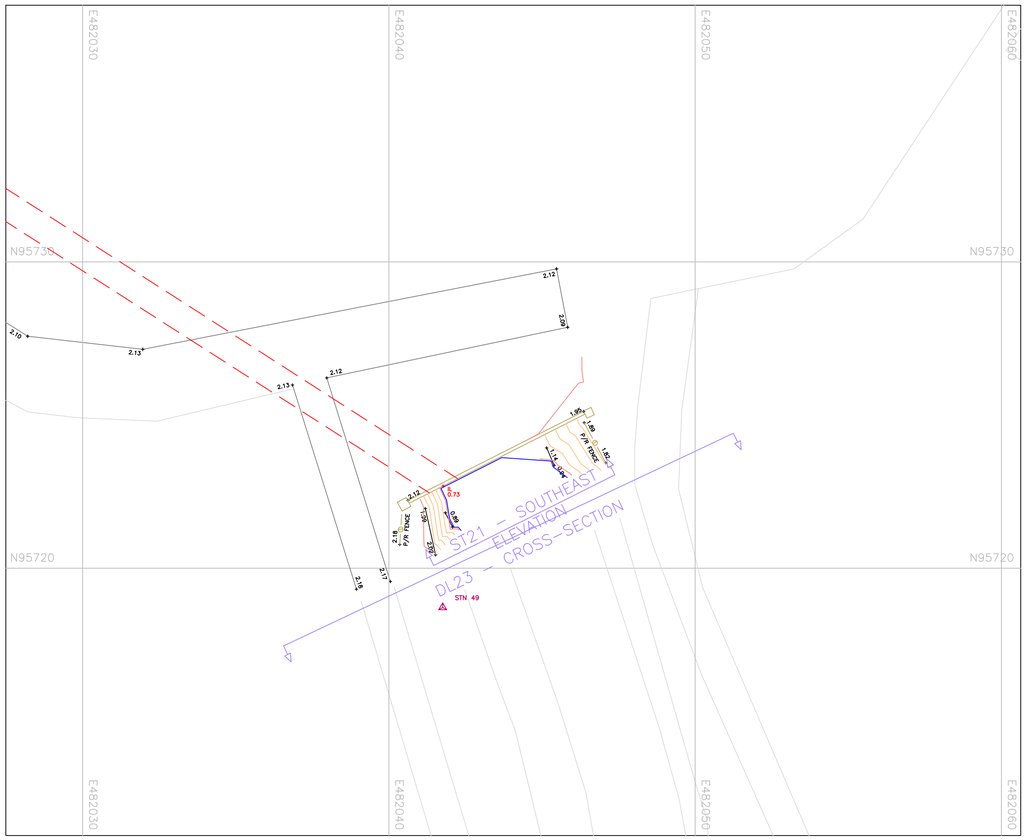
DRAWING

Survey of structures and cross–sections – DL–R (NW)

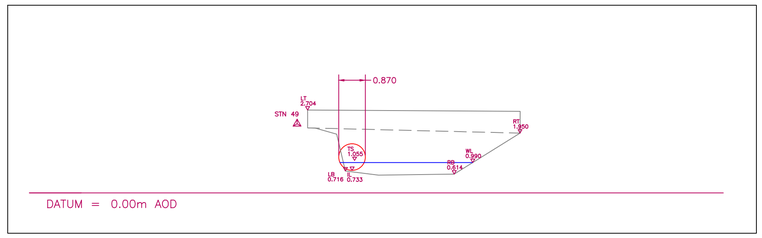
SCALE	DATE
1:100 (A1)	26/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_37	A

PLAN OF STRUCTURE – ST21



ST21 – SOUTHEAST ELEVATION



Notes

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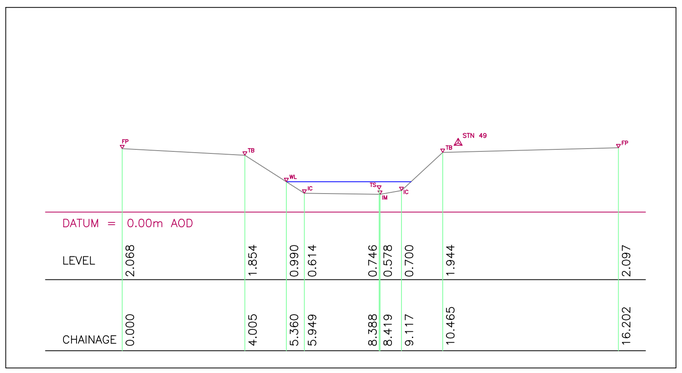
Grid co–ordinates and levels are based upon the Ordnance Survey

REVISION	DESCRIPTION	DATE

KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
LT	Left Top
RT	Right Top
LB	Left Bottom
RB	Right Bottom
BL	Base Level
IL	Invert Level
TS	Top of Silt
FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
TP	Telegraph pole
B/W	Barbed wire fence
C/B	Close boarded fence
C/L	Chain link fence
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL23 – CROSS–SECTION



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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

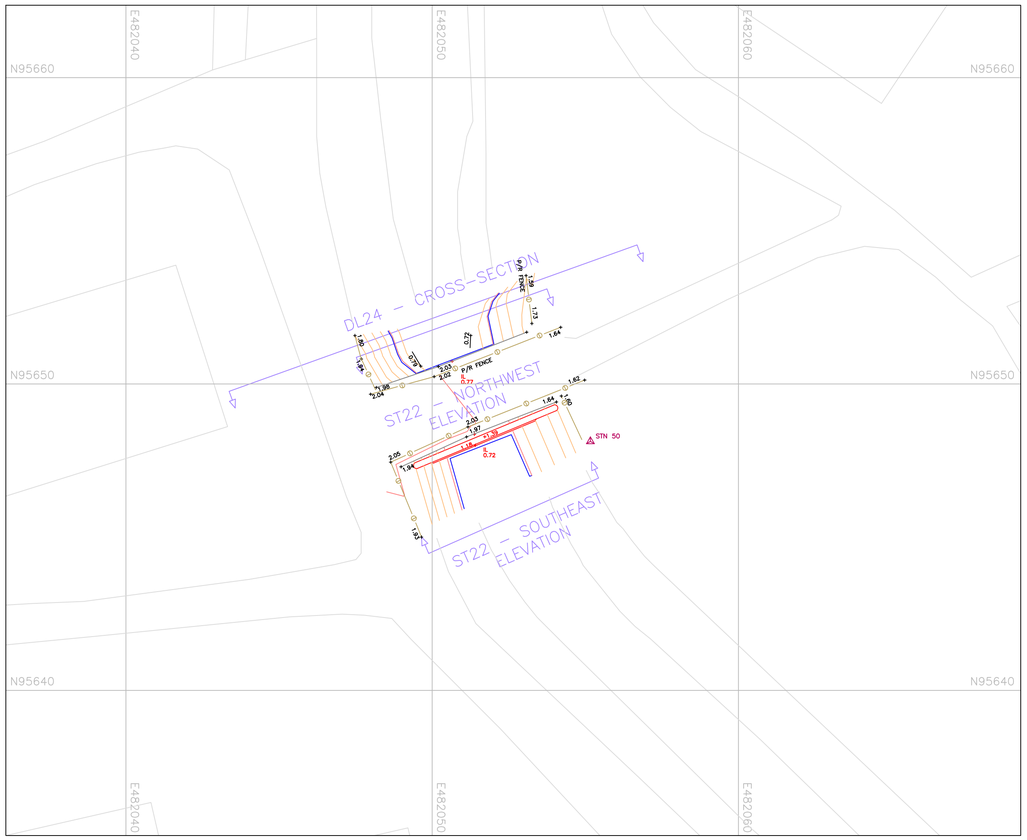
DRAWING

Survey of structures and cross–sections – DL–R (SE)

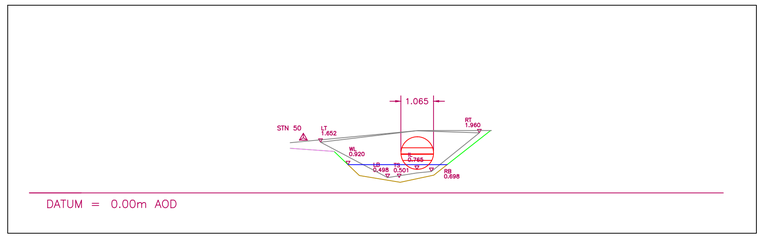
SCALE	DATE
1:100 (A1)	26/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_38	–

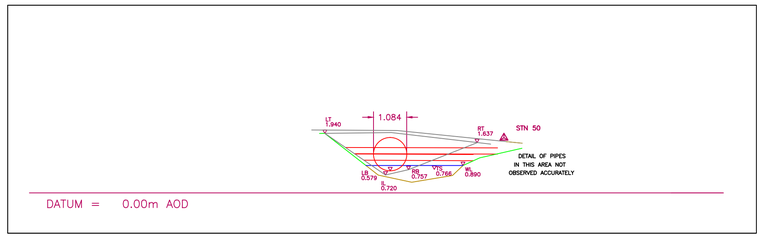
PLAN OF STRUCTURE – ST22



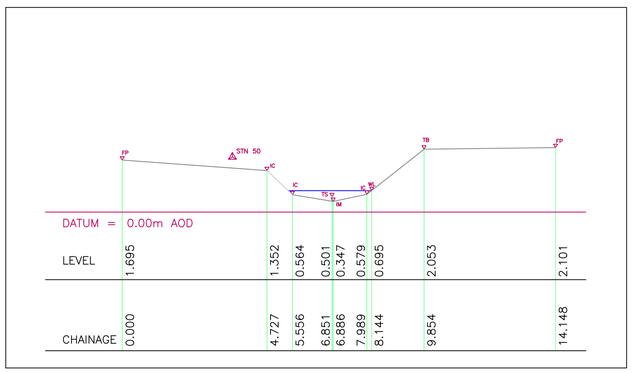
ST22 – NORTHWEST ELEVATION



ST22 – SOUTHEAST ELEVATION



DL24 – CROSS-SECTION



KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
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RT	Right Top
LB	Left Bottom
RB	Right Bottom
BL	Base Level
IL	Invert Level
TS	Top of Silt
FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
TP	Telegraph pole
B/W	Barbed wire fence
C/B	Close boarded fence
C/L	Chain link fence
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

Notes

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Grid co–ordinates and levels are based upon the Ordnance Survey

REVISION	DESCRIPTION	DATE
A	CROSS–SECTION AMENDED	5/7/19

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Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

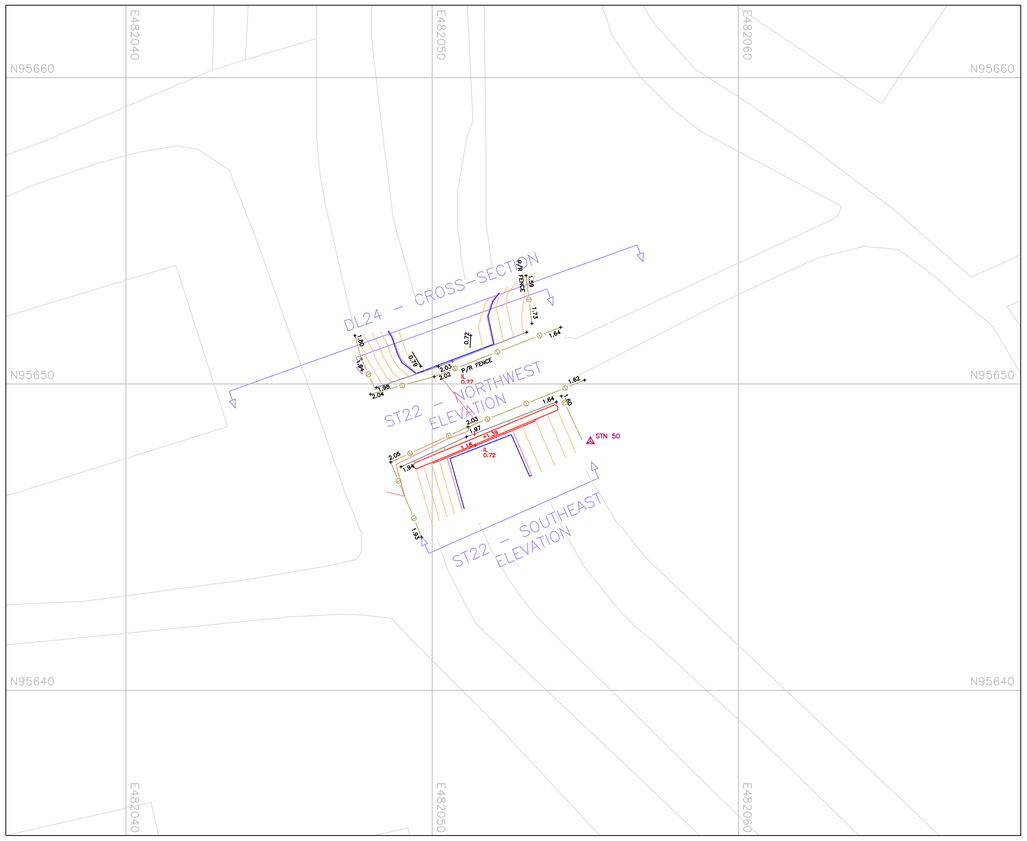
DRAWING

Survey of structures and cross–sections – DL–S

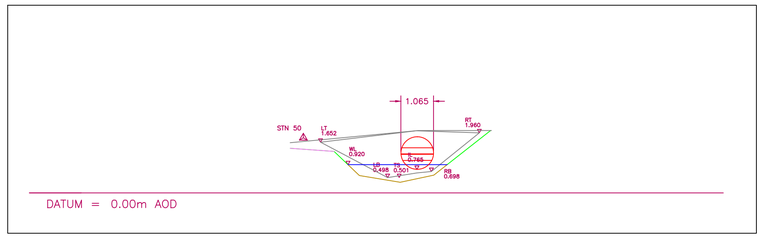
SCALE	DATE
1:100 (A1)	26/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_39	A

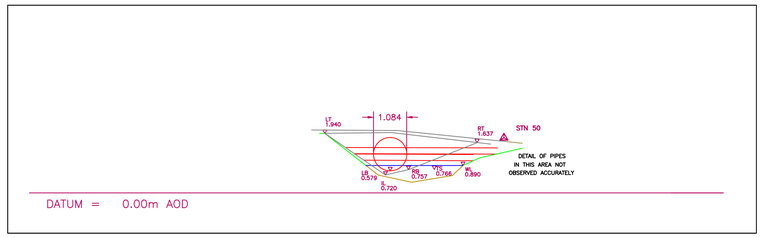
PLAN OF STRUCTURE – ST22



ST22 – NORTHWEST ELEVATION



ST22 – SOUTHEAST ELEVATION



CHECK XYZ FILE AGAINST DL24 CROSS–SECTION

ID Number	Code	Eastings	Northings	Height	Check
DL240000	YYFP	482,043.3720	95,649.7620	2.1010	✓
DL240001	YYTB	482,047.5460	95,650.8430	2.0530	✓
DL240003	YYIC	482,049.1700	95,651.8410	0.5790	✓
DL240004	YYIM	482,050.2680	95,652.0470	0.3470	✓
DL240006	YYIC	482,051.4980	95,652.5570	0.5640	✓
DL240007	YYTB	482,052.2970	95,652.7850	1.3520	✓
DL240008	YYFP	482,056.6890	95,654.5400	1.6950	✓

KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
LT	Left Top
RT	Right Top
LB	Left Bottom
RB	Right Bottom
BL	Base Level
IL	Invert Level
TS	Top of Silt
FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
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C/L	Chain link fence
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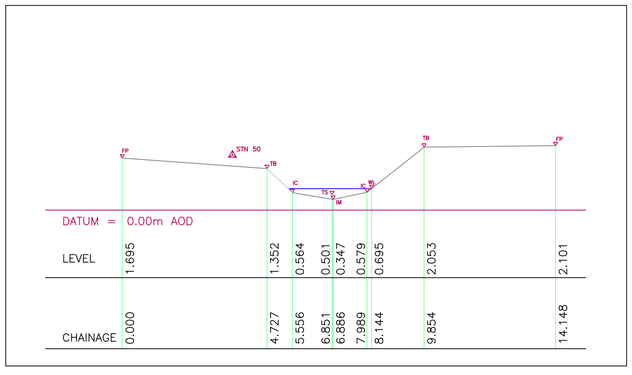
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL24 – CROSS–SECTION



Notes

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Grid co–ordinates and levels are based upon the Ordnance Survey

REVISION	DESCRIPTION	DATE
B	CHECKED & CONFIRMED XYZ	9/7/19
A	CROSS–SECTION AMENDED	5/7/19

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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

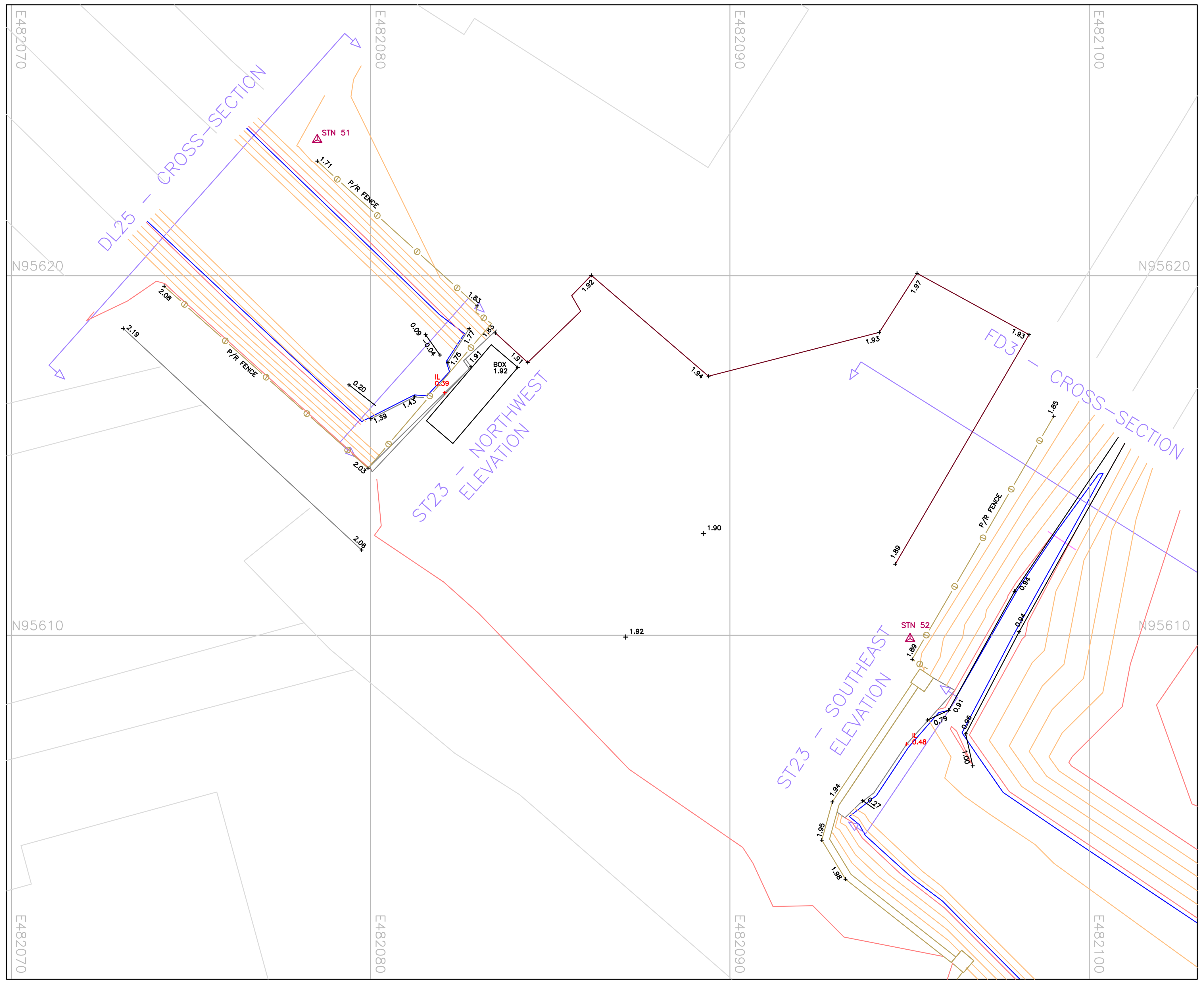
DRAWING

Survey of structures and cross–sections – DL–S

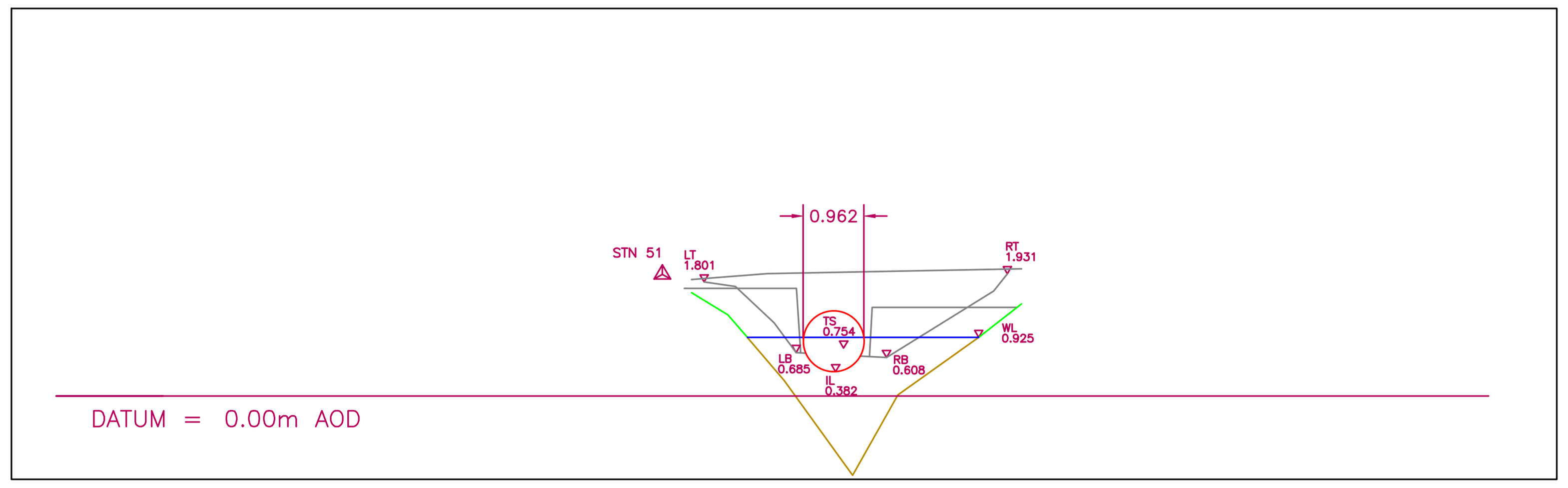
SCALE	DATE
1:100 (A1)	26/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_39	B

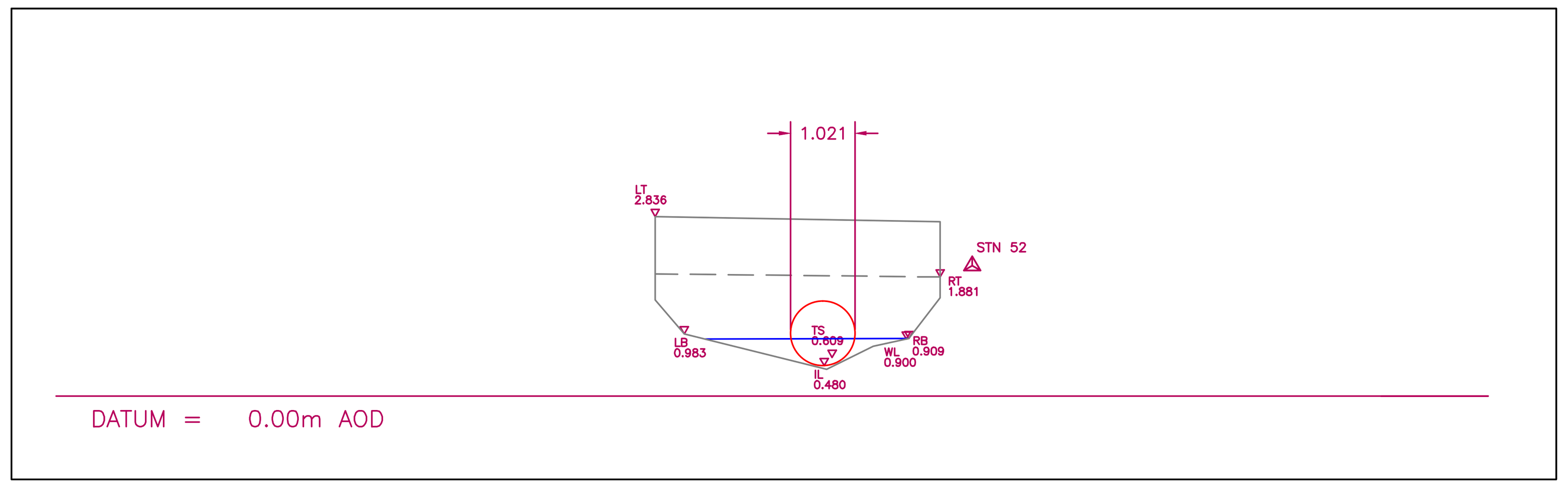
PLAN OF STRUCTURE – ST23



ST23 – NORTHWEST ELEVATION



ST23 – SOUTHEAST ELEVATION



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Grid co–ordinates and levels are based upon the Ordnance Survey

REVISION	DESCRIPTION	DATE
A	DL25 LEVELS AMENDED	6/7/19

KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point

Applies to Arch, Culvert or Head Wall

SL	Soffit Level
LT	Left Top
RT	Right Top
LB	Left Bottom
RB	Right Bottom
BL	Base Level
IL	Invert Level
TS	Top of Silt
FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
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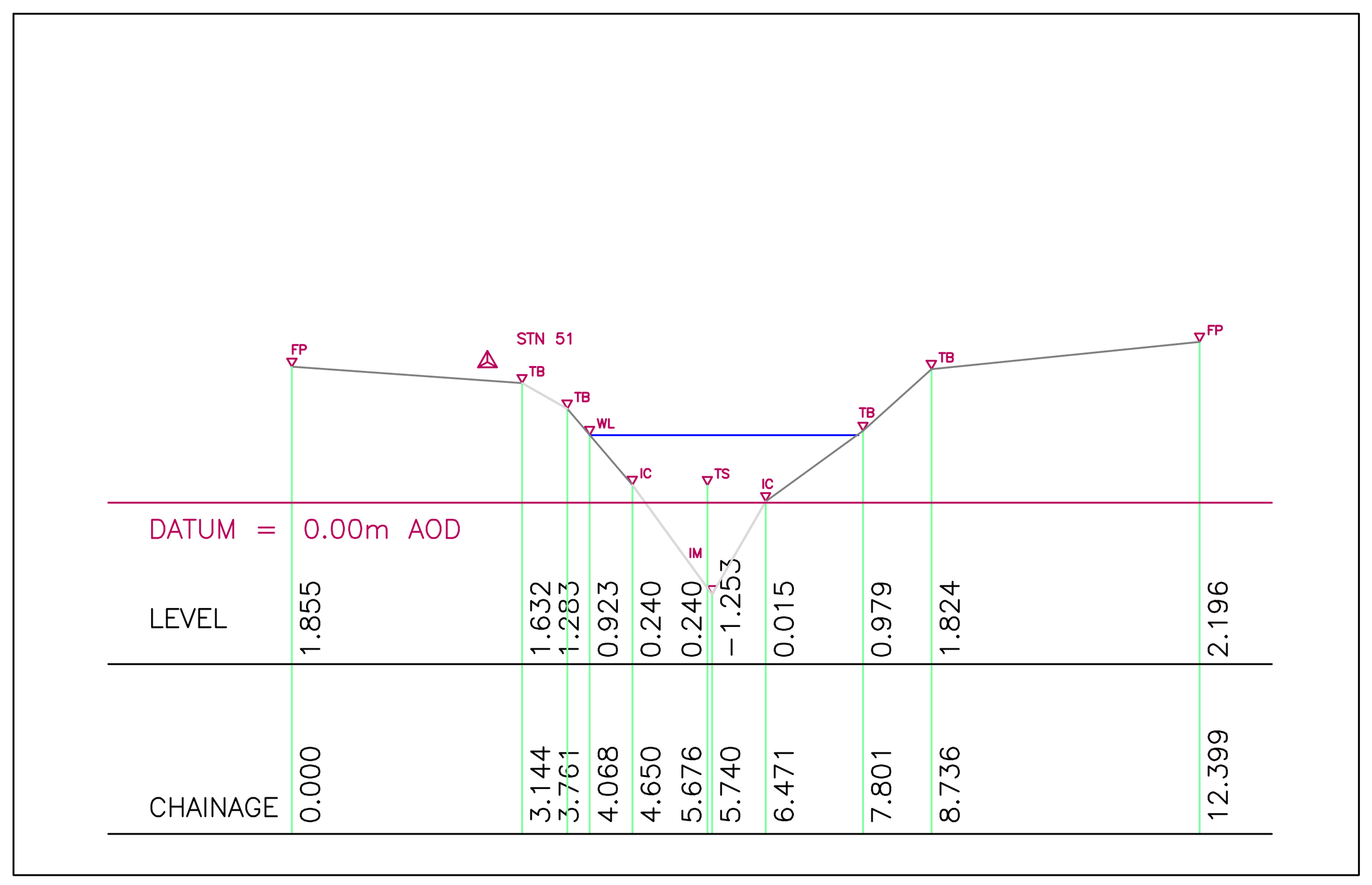
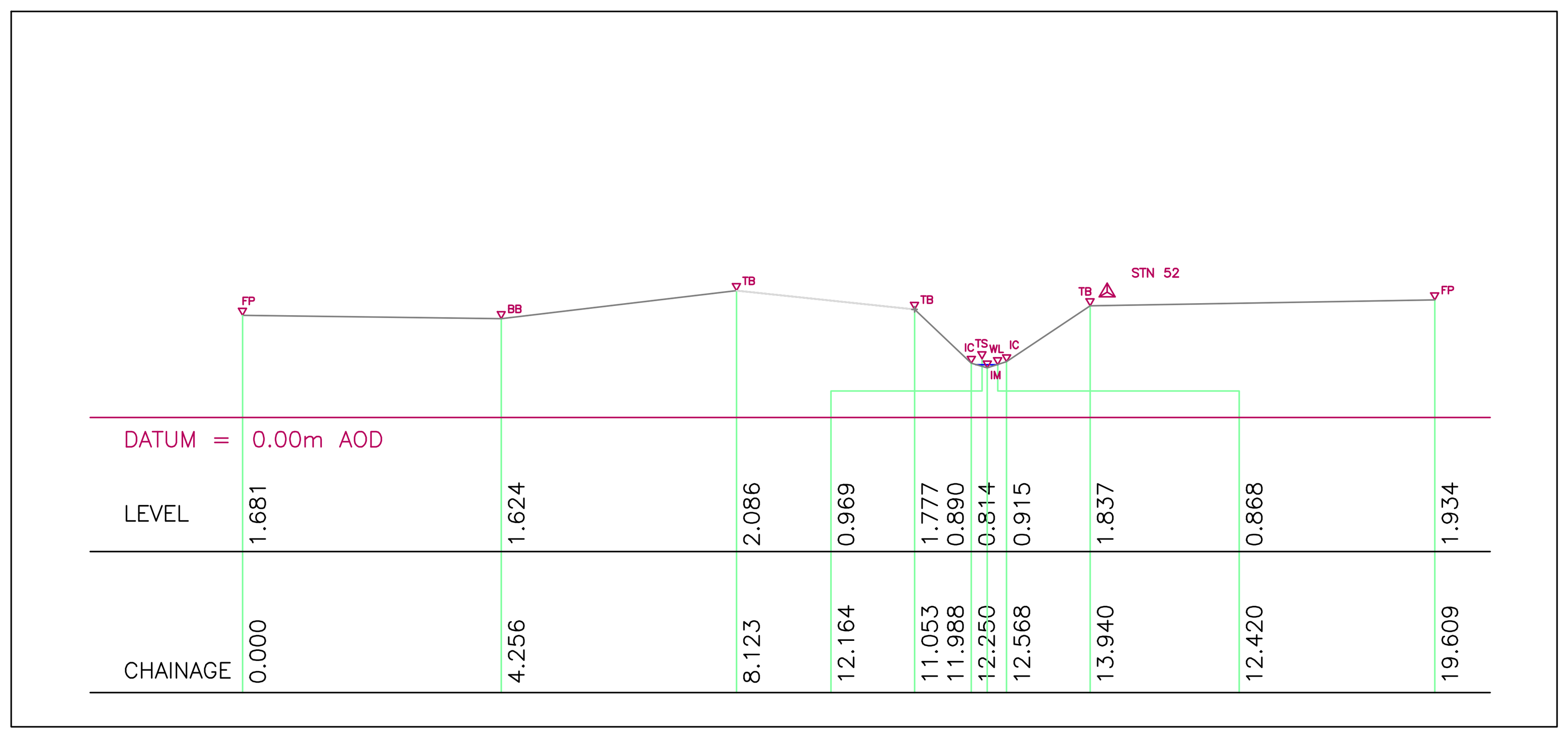
B/W	Barbed wire fence
C/B	Close boarded fence
C/L	Chain link fence
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL25 – CROSS-SECTION



FD3 – CROSS-SECTION



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CUSTOMER
Manhire LLP

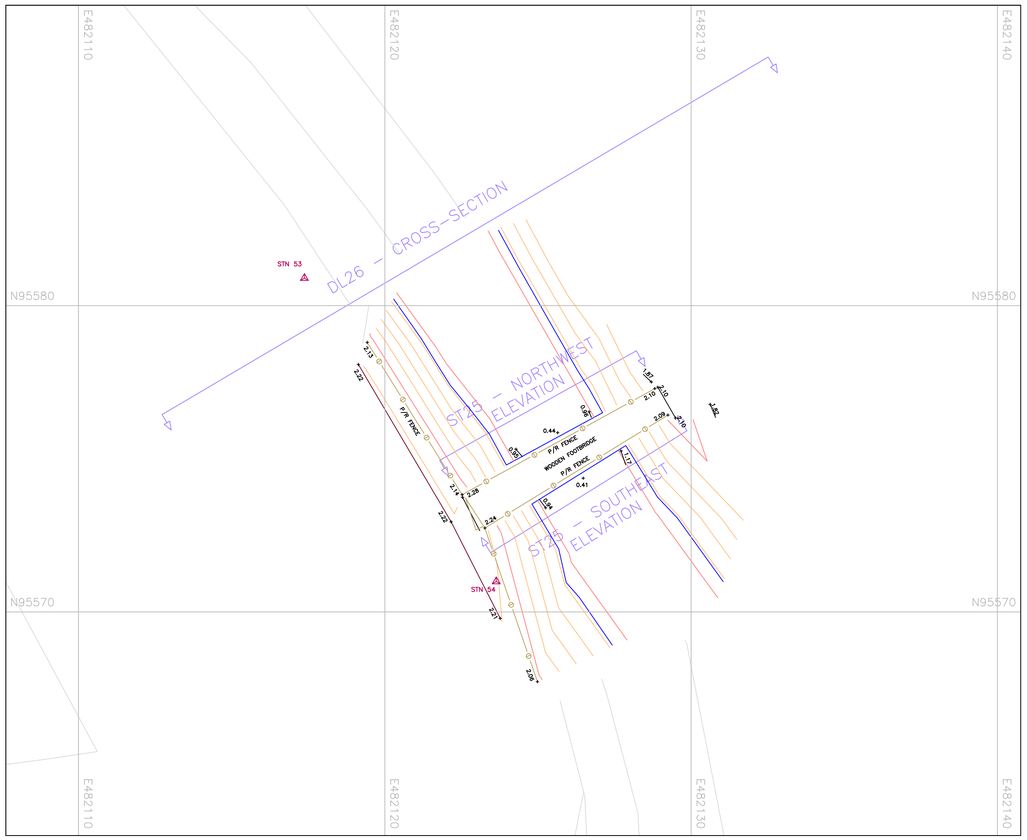
PROJECT
Earnley Watercourse, floodplain and structure fluvial modelling

DRAWING
Survey of structures and cross–sections – DL–T

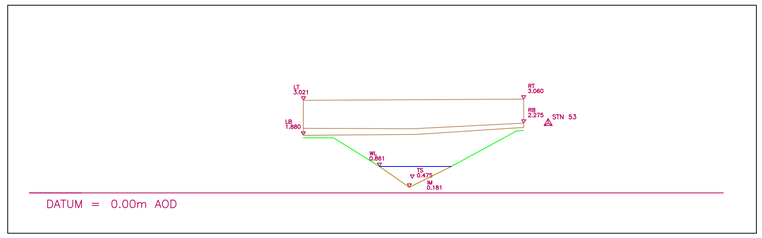
SCALE	DATE
1:100 (A1)	27/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_40	A

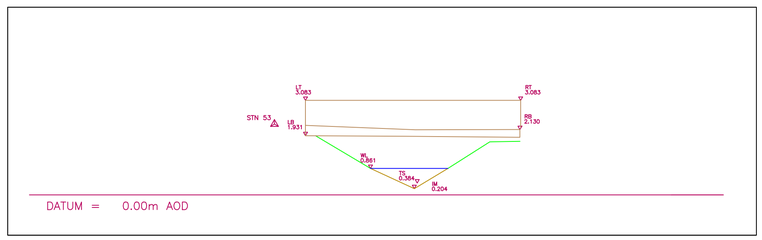
PLAN OF STRUCTURE – ST25



ST25 – NORTHWEST ELEVATION



ST25 – SOUTHEAST ELEVATION



CHECK XYZ FILE GAINST DL26 CROSS–SECTION

ID Number	Code	Eastings	Northings	Height	Check
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DL260008	YYBB	482,128.7776	95,582.3899	1.7956	✓
DL260007	YYTB	482,125.7970	95,581.3769	1.7778	✓
DL260006	YYIC	482,122.0451	95,582.0289	0.3513	✓
DL260004	YYIM	482,121.3320	95,581.7359	−0.1710	✓
DL260003	YYIC	482,120.9605	95,581.2093	0.3264	✓
DL260002	YYTB	482,119.4796	95,580.0140	1.8685	✓
DL260001	YYTB	482,119.2785	95,578.7613	2.1391	✓
DL260000	YYFP	482,112.7300	95,576.4423	2.1985	✓

Notes

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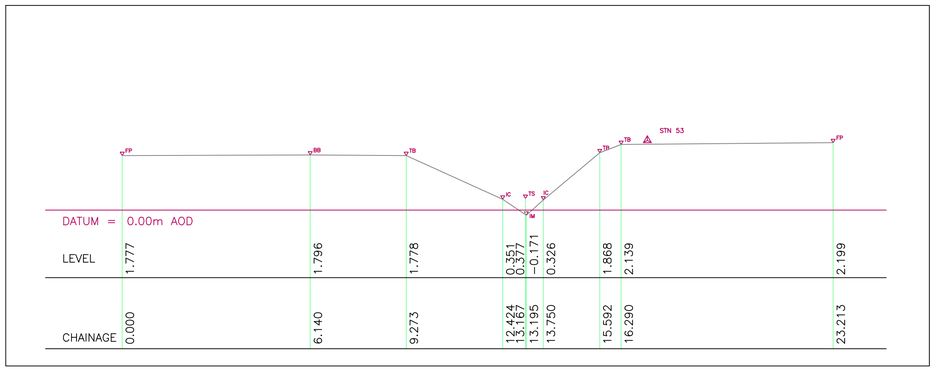
Grid co–ordinates and levels are based upon the Ordnance Survey

KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
LT	Left Top
RT	Right Top
LB	Left Bottom
RB	Right Bottom
BL	Base Level
IL	Invert Level
TS	Top of Silt
FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
TP	Telegraph pole
B/W	Barbed wire fence
C/B	Close boarded fence
C/L	Chain link fence
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL26 – CROSS–SECTION



REVISION	DESCRIPTION	DATE
A	DATA CHECKED & CONFIRMED	6/7/19

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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

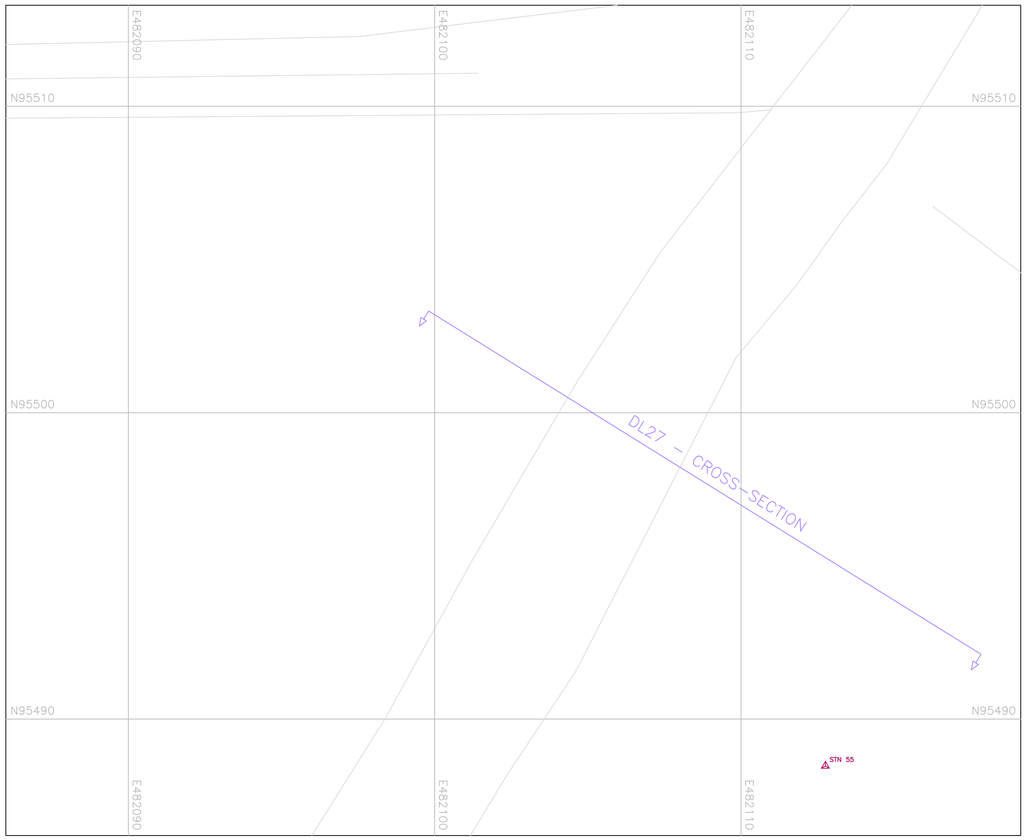
DRAWING

Survey of structures and cross–sections – DL–U

SCALE	DATE
1:100 (A1)	27/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_41	–

PLAN OF CROSS–SECTION – DL27



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Notes

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Grid co–ordinates and levels are based upon the Ordnance Survey

REVISION	DESCRIPTION	DATE

KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
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RB	Right Bottom
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GSV	Gas stop valve
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EP	Electricity pole
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OSBM	OS bench mark
RS	Road sign
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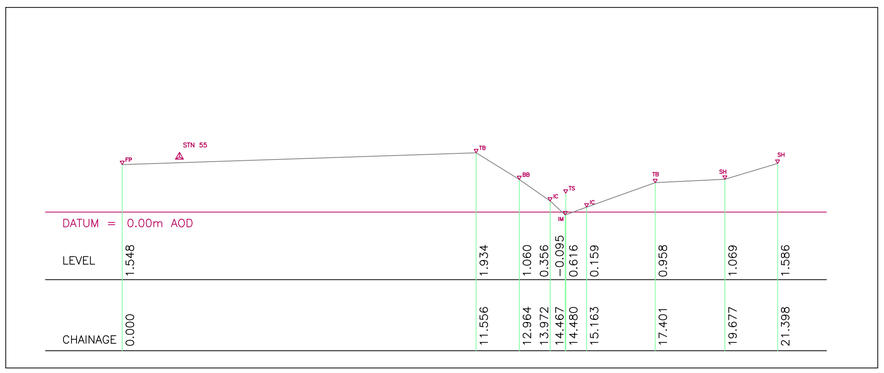
C/L	Chain link fence
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL27 – CROSS–SECTION



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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

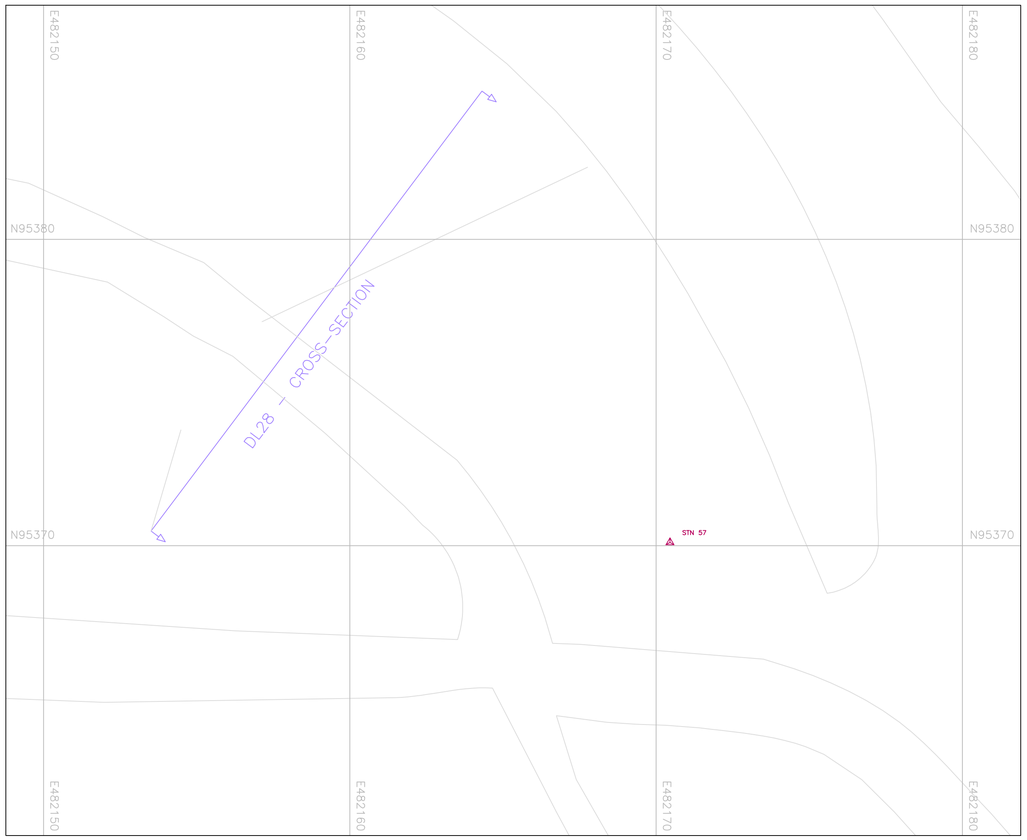
DRAWING

Survey of structures and cross–sections – DL–V

SCALE	DATE
1:100 (A1)	27/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_42	–

PLAN OF CROSS–SECTION – DL28



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Grid co–ordinates and levels are based upon the Ordnance Survey

REVISION	DESCRIPTION	DATE
A	XYZ FILE DATA REINSTATED	6/7/19

KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
LT	Left Top
RT	Right Top
LB	Left Bottom
RB	Right Bottom
BL	Base Level
IL	Invert Level
TS	Top of Silt
FH	Fire hydrant
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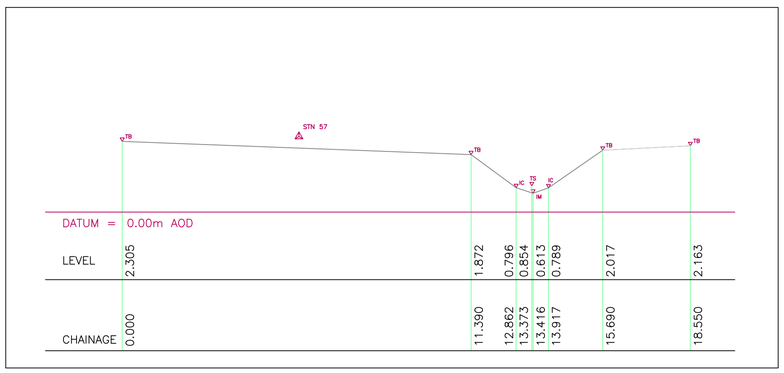
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

DL28 – CROSS–SECTION



MERIDIAN
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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

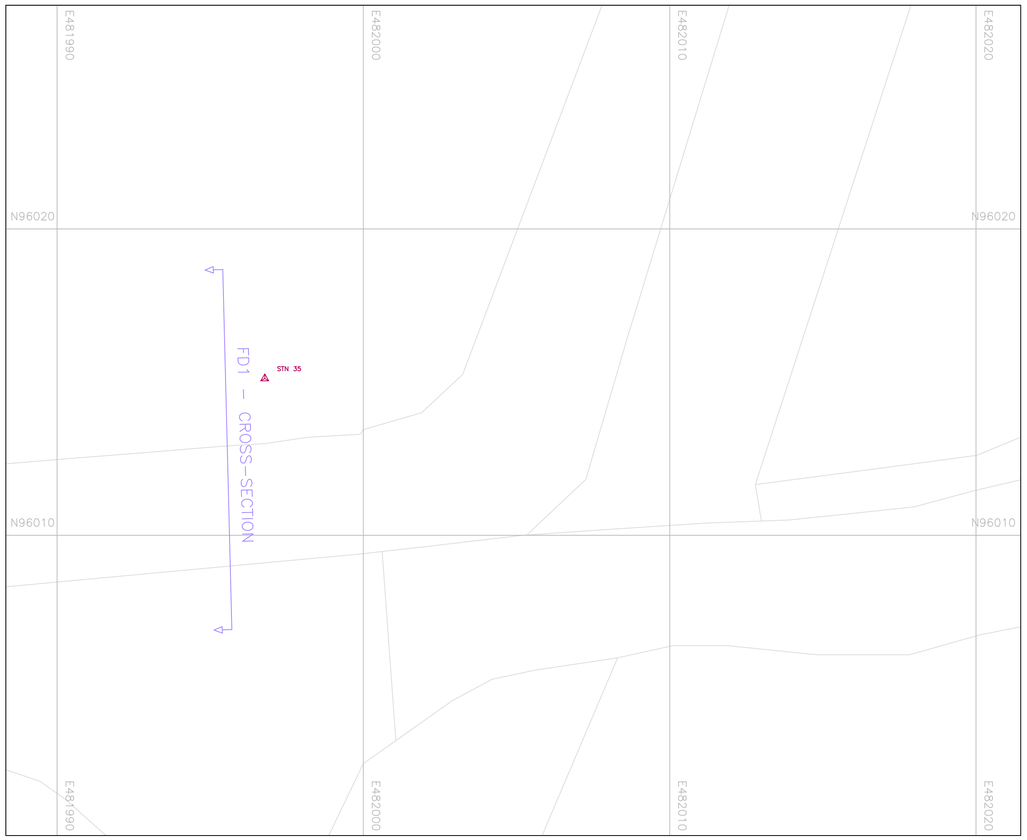
DRAWING

Survey of structures and cross–sections – DL–W

SCALE	DATE
1:100 (A1)	28/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_43	A

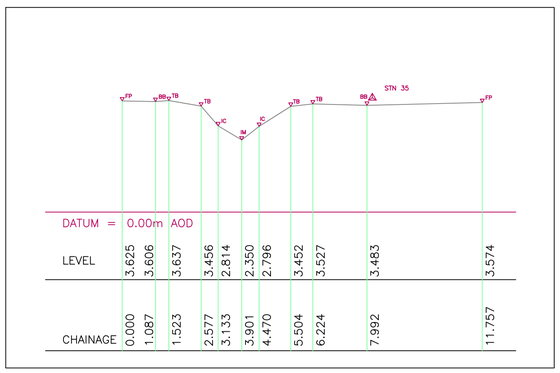
PLAN OF CROSS–SECTION – FD1



KEY

FP	Flood Plain
BB	Bottom of Bank
TB	Top of Bank
WL	Water Line
IC	In Channel
IM	In Channel mid–point
Applies to Arch, Culvert or Head Wall	
SL	Soffit Level
LT	Left Top
RT	Right Top
LB	Left Bottom
RB	Right Bottom
BL	Base Level
IL	Invert Level
TS	Top of Silt
FH	Fire hydrant
GY	Gulley
IC	Inspection cover
MH	Manhole
SMP	Service marker post
GSV	Gas stop valve
WSV	Water stop valve
DK	Drop kerb
EP	Electricity pole
KB	Kerb
OSBM	OS bench mark
RS	Road sign
TP	Telegraph pole
B/W	Barbed wire fence
C/B	Close boarded fence
C/L	Chain link fence
C/P	Chestnut paling fence
I/W	Interwoven fence
I/R	Iron railing
L/B	Lapboard fence
P/R	Post and rail fence
P/W	Post and wire fence
W/M	Wire mesh fence
RTW	Retaining wall
SSF	Steel security fence

FD1 – CROSS–SECTION



Notes

Where underground services are shown it is advisable to check these details against statutory authority records before proceeding with any design.

All information contained in this drawing (including digital data) should be checked and verified prior to any fabrication or construction.

Grid co–ordinates and levels are based upon the Ordnance Survey

REVISION	DESCRIPTION	DATE

MERIDIAN
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CUSTOMER

Manhire LLP

PROJECT

Earnley Watercourse, floodplain and structure fluvial modelling

DRAWING

Survey of structures and cross–sections – FD–A

SCALE	DATE
1:100 (A1)	28/6/2019

CLIENT NO.	JOB NO.	REVISION
00228	0411_44	–

TITLE

MAXIMUM DEPTH OF TIDAL FLOODING
3.3%AEP EVENT, PRESENT DAY

DEFENDED

LEGEND

Site boundary

Max depth (m)
- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- > 1.00

Flood level (mODN)
- <= 3.25
- 3.25 - 3.50
- 3.50 - 3.75
- 3.75 - 4.00
- 4.00 - 4.25
- 4.25 - 4.50
- 4.50 - 4.75
- > 4.75

DETAILS

DEPTH PRE-DEV	DEPTH POST-DEV
LEVEL PRE-DEV	LEVEL POST-DEV

NOTES

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2. All dimensions are in metres unless otherwise stated
3. All heights are in metres Above Ordnance Datum Newlyn (mAODN) unless otherwise stated

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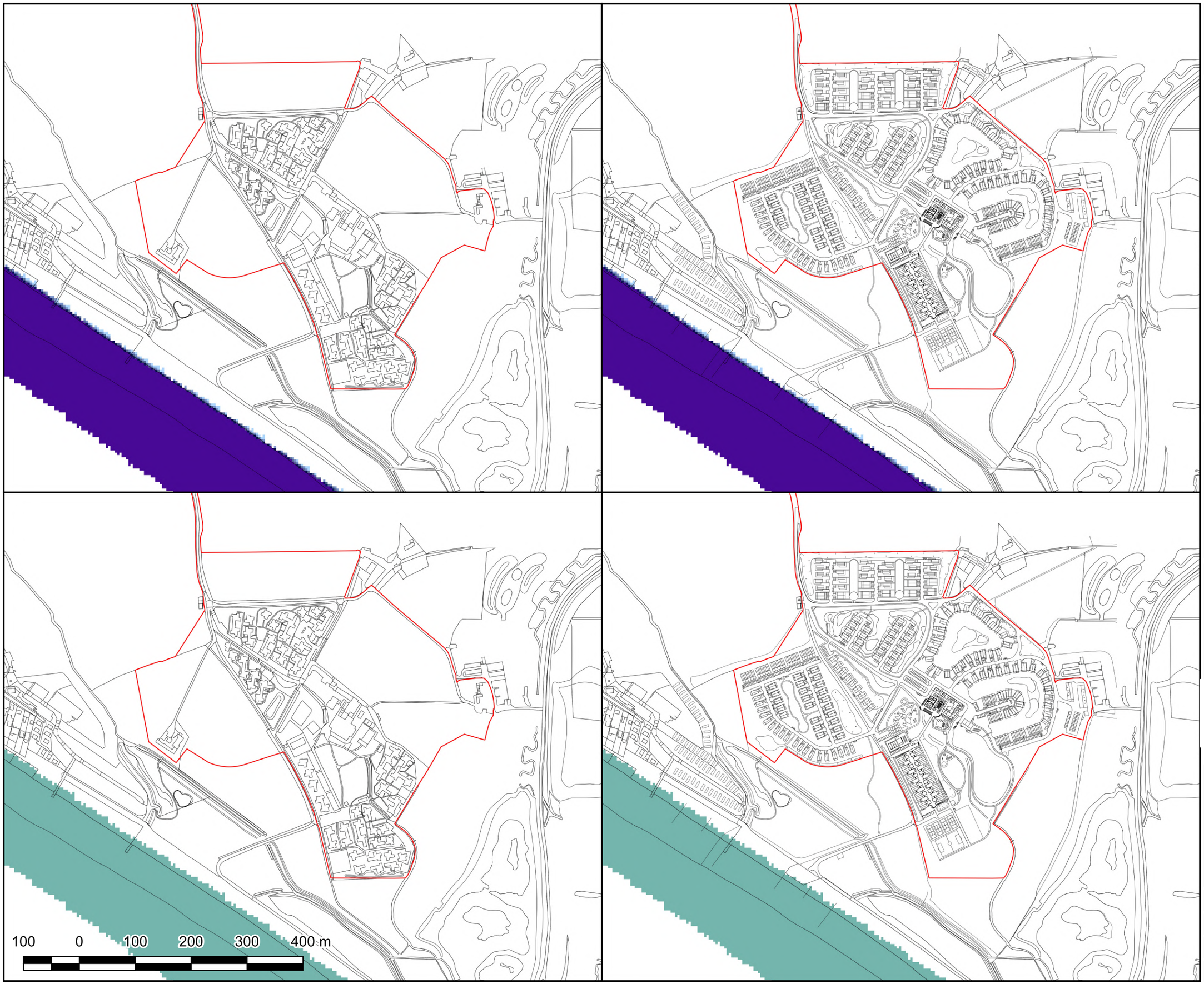
REV	DESCRIPTION	DATE
1	1st issue	14-06-2023
2	2nd issue	09-08-2023

CLIENT: COVE

PROJECT: MEDMERRY PARK, CHICHESTER

SCALE	PROJECT No.	INITIALS	CHECKED BY
1: @ A3	3341	NW	--

DRAWING No.: A.1



TITLE

MAXIMUM DEPTH OF TIDAL FLOODING
0.5%AEP EVENT, PRESENT DAY

DEFENDED

LEGEND

Site boundary

Max depth (m)
- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- > 1.00

Flood level (mODN)
- <= 3.25
- 3.25 - 3.50
- 3.50 - 3.75
- 3.75 - 4.00
- 4.00 - 4.25
- 4.25 - 4.50
- 4.50 - 4.75
- > 4.75

DETAILS

DEPTH PRE-DEV	DEPTH POST-DEV
LEVEL PRE-DEV	LEVEL POST-DEV

NOTES

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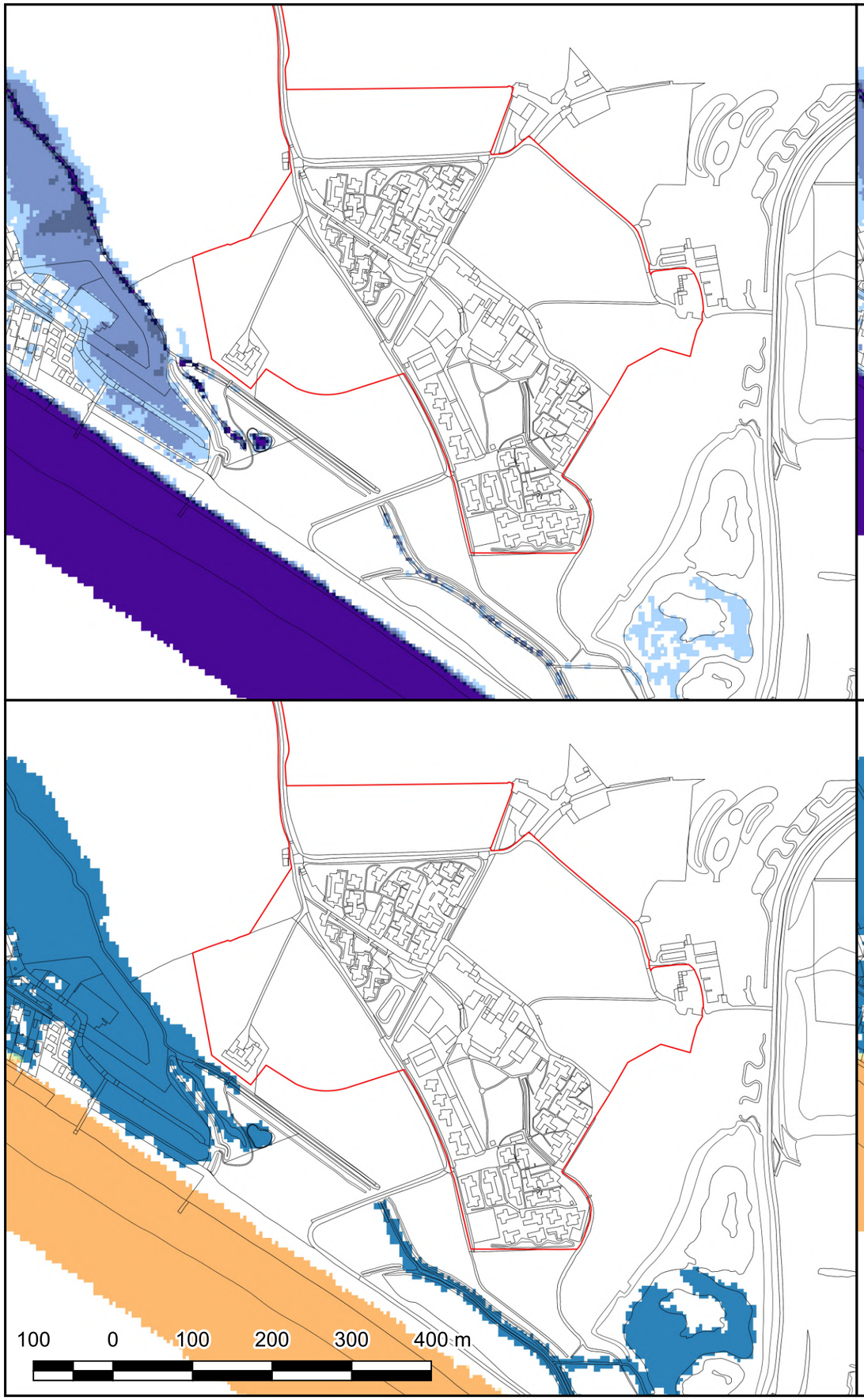
REV	DESCRIPTION	DATE
1	1st issue	14-06-2023
2	2nd issue	09-08-2023

CLIENT: COVE

PROJECT: MEDMERRY PARK, CHICHESTER

SCALE	PROJECT No.	INITIALS	CHECKED BY
1: @ A3	3341	NW	--

DRAWING No.: **A.2**



TITLE

MAXIMUM DEPTH OF TIDAL FLOODING 0.5%AEP EVENT, PLUS CLIMATE CHANGE IN 2125

DEFENDED

LEGEND

Site boundary

Max depth (m)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- > 1.00

Flood level (mODN)

- <= 3.25
- 3.25 - 3.50
- 3.50 - 3.75
- 3.75 - 4.00
- 4.00 - 4.25
- 4.25 - 4.50
- 4.50 - 4.75
- > 4.75

DETAILS

DEPTH PRE-DEV	DEPTH POST-DEV
LEVEL PRE-DEV	LEVEL POST-DEV

NOTES

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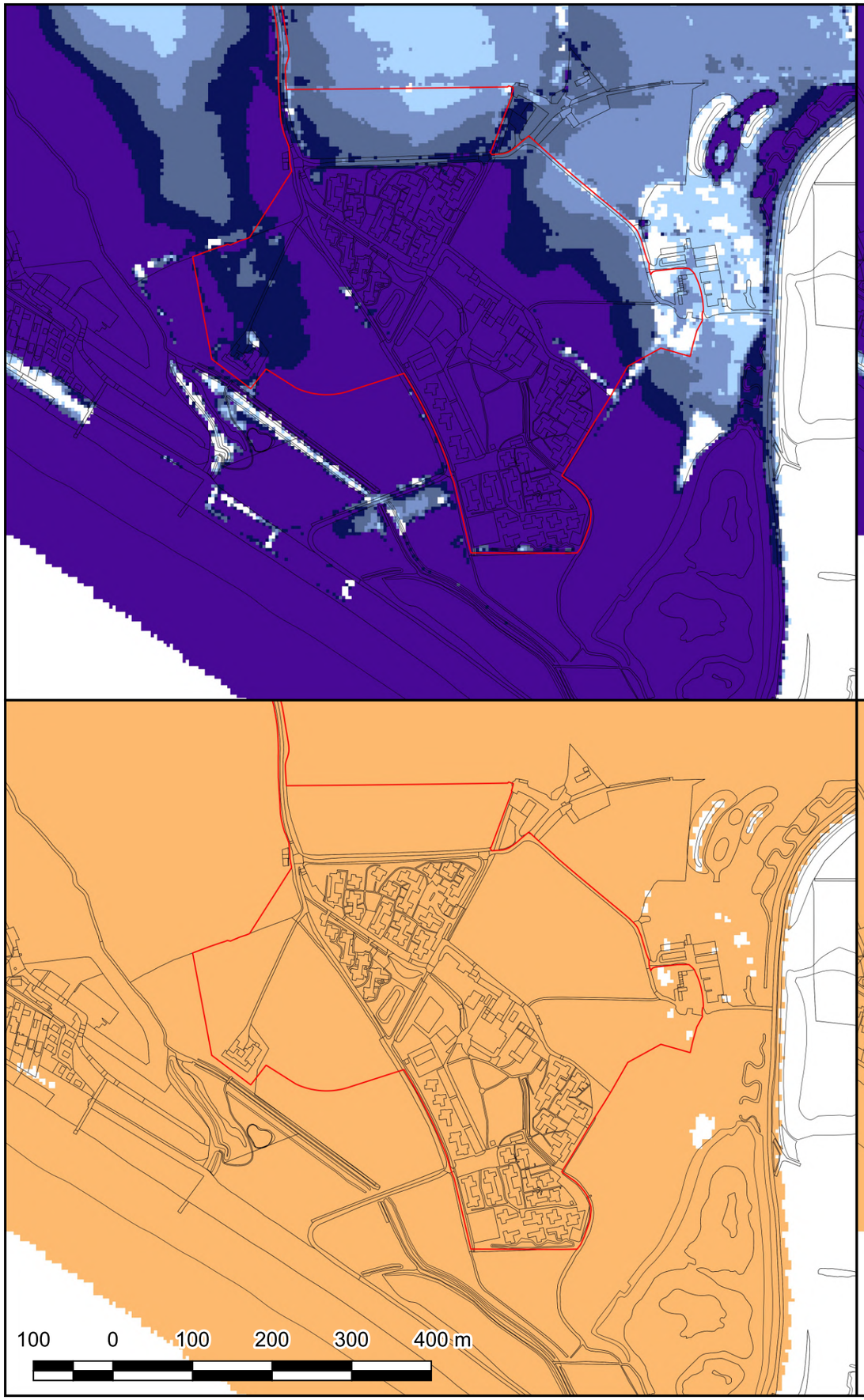
REV	DESCRIPTION	DATE
1	1st issue	14-06-2023
2	2nd issue	09-08-2023

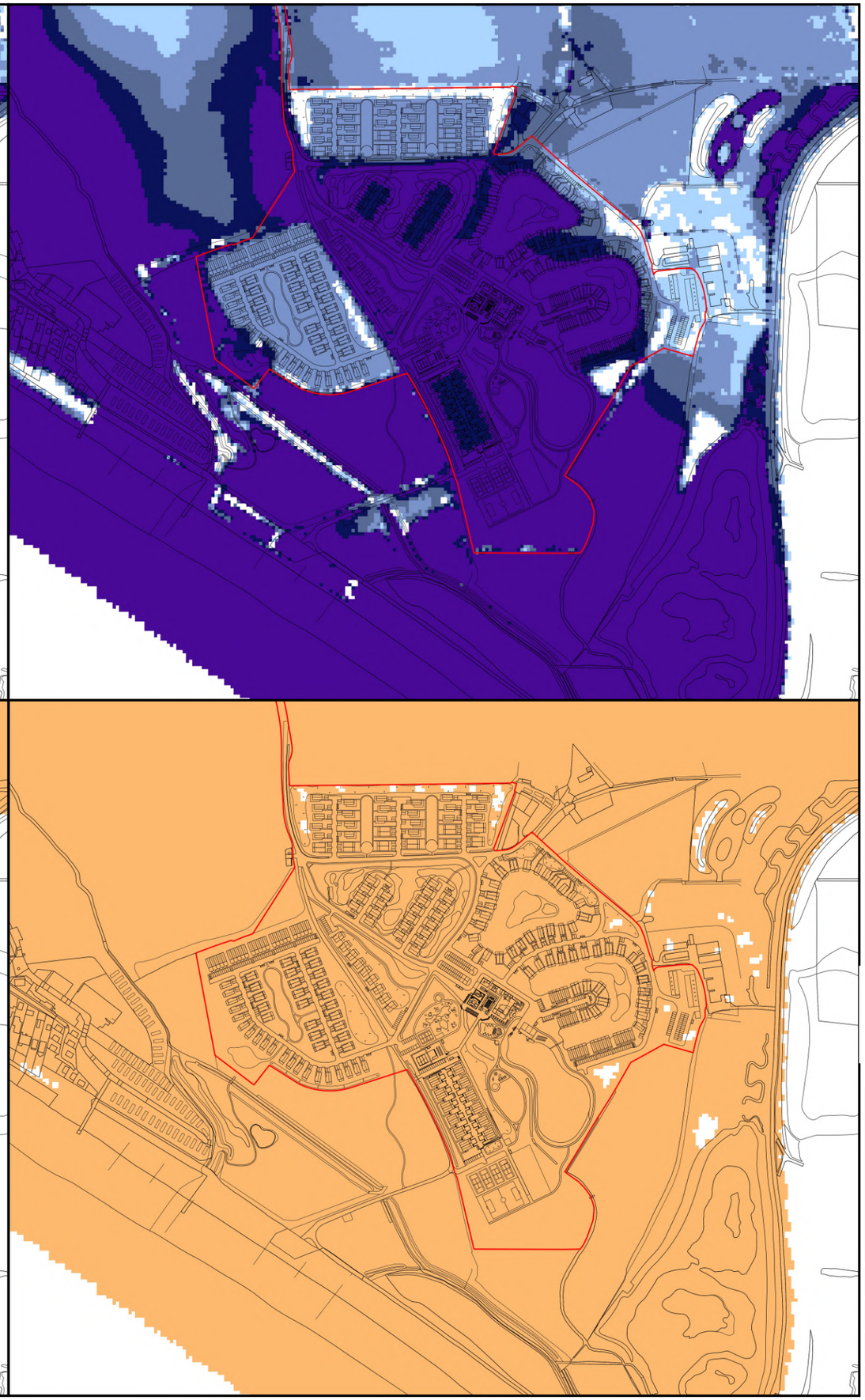
CLIENT COVE

PROJECT MEDMERRY PARK, CHICHESTER

SCALE	PROJECT No.	INITIALS	CHECKED BY
1: @ A3	3341	NW	--

DRAWING No. **A.3**





TITLE

MAXIMUM DEPTH OF TIDAL FLOODING 0.5%AEP EVENT PLUS CLIMATE CHANGE IN 2125

UNDEFENDED

LEGEND

Site boundary

Max depth (m)

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- > 1.00

Flood level (mODN)

- <= 3.25
- 3.25 - 3.50
- 3.50 - 3.75
- 3.75 - 4.00
- 4.00 - 4.25
- 4.25 - 4.50
- 4.50 - 4.75
- > 4.75

DETAILS

*Offshore peak flood level for T200[2125] Higher Central event is 4.43 mODN

DEPTH PRE-DEV	DEPTH POST-DEV
LEVEL PRE-DEV	LEVEL POST-DEV

NOTES

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REV	DESCRIPTION	DATE
1	1st issue	14-06-2023
2	2nd issue	09-08-2023

CLIENT COVE

PROJECT MEDMERRY PARK, CHICHESTER

SCALE	PROJECT No.	INITIALS	CHECKED BY
1: @ A3	3341	NW	--

DRAWING No. **A.4**

TITLE

MAXIMUM DEPTH OF TIDAL FLOODING
0.1%AEP EVENT, PRESENT DAY

DEFENDED

LEGEND

Site boundary

Max depth (m)
- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 0.75
- 0.75 - 1.00
- > 1.00

Flood level (mODN)
- <= 3.25
- 3.25 - 3.50
- 3.50 - 3.75
- 3.75 - 4.00
- 4.00 - 4.25
- 4.25 - 4.50
- 4.50 - 4.75
- > 4.75

DETAILS

DEPTH PRE-DEV	DEPTH POST-DEV
LEVEL PRE-DEV	LEVEL POST-DEV

NOTES

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London: Unit S2.11, Woolyard, 52 Bermondsey Street, London, SE1 3UD

REV	DESCRIPTION	DATE
1	1st issue	14-06-2023
2	2nd issue	09-08-2023

CLIENT: COVE

PROJECT: MEDMERRY PARK, CHICHESTER

SCALE	PROJECT No.	INITIALS	CHECKED BY
1: @ A3	3341	NW	--

DRAWING No.: **A.5**