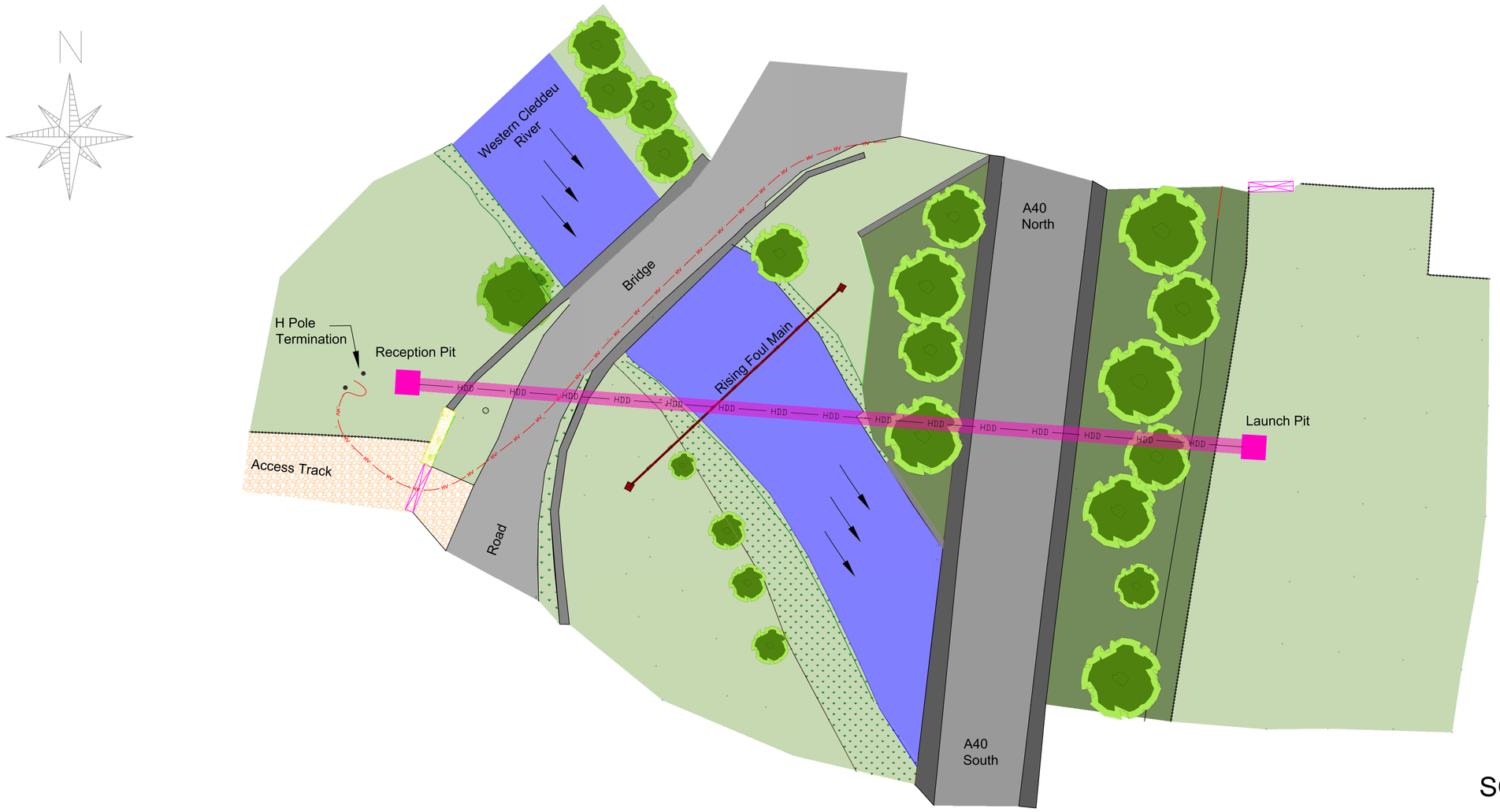
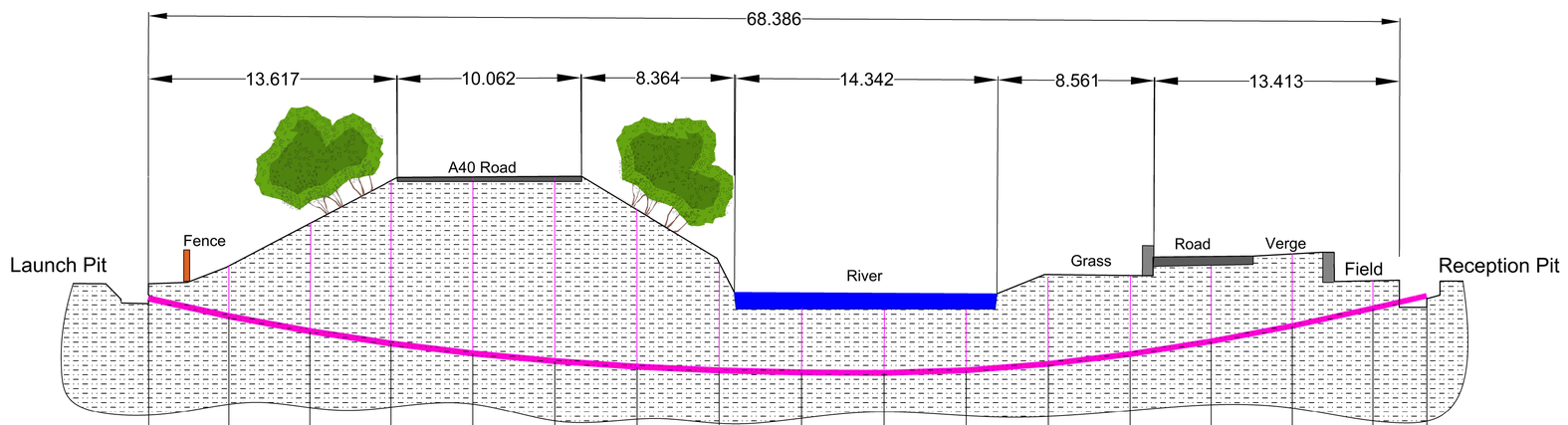


SCALE: 1:200



Rod Number	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Depth	2.744	5.883	8.892	9.638	10.084	8.566	5.889	3.471	3.498	3.356	4.879	4.293	4.631	3.931	1.502
Pitch %	-20.22	-16.75	-13.58	-10.68	-8.03	-5.62	-3.45	-1.50	0.0	+5.56	+9.96	+13.91	+17.44	+20.55	+23.23
Chainage	4.395	8.821	13.271	17.739	22.220	26.710	31.206	36.704	40.204	44.703	49.190	53.659	58.105	62.526	66.922

NOT TO SCALE

Notes:

Abbreviations for underground services

AC	Asbestos cement	MkP	Marker post
ALK	Alkathene	NFI	No further information
AV	Air valve	NL-A	Not located - route assumed
BD	Back drop	NL-I	Not located - route plotted from on-site information
BH	Bore hole	NL-R	Not located - route plotted from records
Br	Brick	NL-T	Not located - plotted from visible french scar detail
BTIC	British Telecom inspection chamber	NRV	Non return valve
BTMH	British Telecom manhole	NS	No signal
CA	Compressed air	O/H	Overhead
CATV	Cable tv	PE	Polyethylene
CCTV	Closed circuit television	pe	Pot ended
CH	Coal hole	PR	Pipe riser
CI	Cast iron	PRV	Pressure reducing valve
CL	Cover level	PVC	Polyvinyl chloride
CM	Cable marker	RE	Rodding eye
CONC	Concrete	RG	Road gully
C/PIT	Catch pit	RS	Road sign
CU	Copper	RWP	Rain water pipe
CR	Cable riser	S/A	Soakaway
DB	Direct buried	SC	Stop cock
DI	Ductile iron	SE	Side entry
ECP	Electric cable pit	SI	Spun iron
ENV	Extra high voltage	SL	Soffit level
EJB	Electric joint box	SP	Soil pipe
EP	Electricity pole	ST	Steel
ER	Earthing rod	SV	Stop valve
ES	Earthing strap	SVP	Soil vent pipe
FH	Fire hydrant	SW	Sink waste
FL	Floor level	TCB	Telephone call box
FLT	Flood light	T/I	Trapped inlet
F/O	Fibre optic	T/O	Trapped outlet
FP	Feeder pillar	TP	Telephone pole
G	Gully	UL	Up light
GM	Gas meter	UST	Underground storage tank
GV	Gas valve	UTL	Unable to lift
HV	High voltage	UTF	Unable to find
IC	Inspection chamber	UTGA	Unable to gain access
IL	Invert level	UTR	Unable to rod
Kv	Kilo volts	UTS	Unable to survey
LD	Land drain	UTT	Unable to trace
LH	Lamp hole	VC	Vitrified clay
LP	Lamp post	VP	Vent pipe
LPG	Liquid petroleum gas	WL	Water level
LV	Low voltage	WM	Water meter
MDPE	Medium density polyethylene	WO	Wash out
MH	Manhole		

Notes for underground services

I. A combination of electromagnetic techniques & ground penetrating radar have been used, as appropriate, in the location of underground services and drains. The results are not infallible and trial excavations should be carried out to confirm service identification, positions and particularly depths, where these are critical. Although all reasonable effort has been made in searching available record drawings, the completeness of the underground services information cannot be guaranteed.
II. Where no cover level is available, depths to pipe inverts are shown thus; IL
III. Depths of services at inspection chambers, where possible, are shown thus; 0.95d
Depths obtained electronically are generally to the centre of the service and are shown thus; (0.80)
V. Number of duct ways, where known, shown thus; 3W
Pipe sizes, which cannot be obtained by visual survey, are taken from record drawings/marker plates where available
Cable routes shown as a single line may actually consist of many cables.
Electric cable routes shown are assumed to be LV unless otherwise annotated
Information taken from records is suffixed thus; (R)
X. Drainage pipe sizes & invert levels have been determined without man entry into chambers. Every effort has been made to correctly obtain this information, however, accuracy is dependent on visibility from the surface.
To assist with clarity of presentation, services and drains have been extended within buildings.

Key for underground services

Foul/combined
Surface water
Drain
drain
Trade effluent drain 300Ø and above
Pumping main
End of trace — EOT
End of trench scar — EOSc
Lv cables
Electric cables
HV cables
Band of electric cables
Air conditioning pipes
BT/Telephone
Cctv
Compressed air
Characteristic change
Data cabling
Mercury
Earthing strap
Empty ducts
Fire alarm
Gas-low pressure
Gas-medium pressure
Gas-redundant
Heating pipes
Heating pipes-redundant
Multi user ducts
Nitrogen pipes
Overhead service
Service duct
Water
Unidentified
Steel Grid Drain

NOT FOR CONSTRUCTION

gleed services is POWER engineering

CLIENT: National Grid

CONTRACTOR:

DRAWN:	CHECKED:	DATE:	REVISION:
SCG	SCG	15/04/24	

PROJECT NAME: Wolf Castle HDD

DRAWING TITLE: Horizontal Directional Drill

SCALE:	SHEET SIZE:	SHEET NO:
As above	A1	

PROJECT NO:	STATUS:

DRAWING NO: 197334-nationalgrid-000