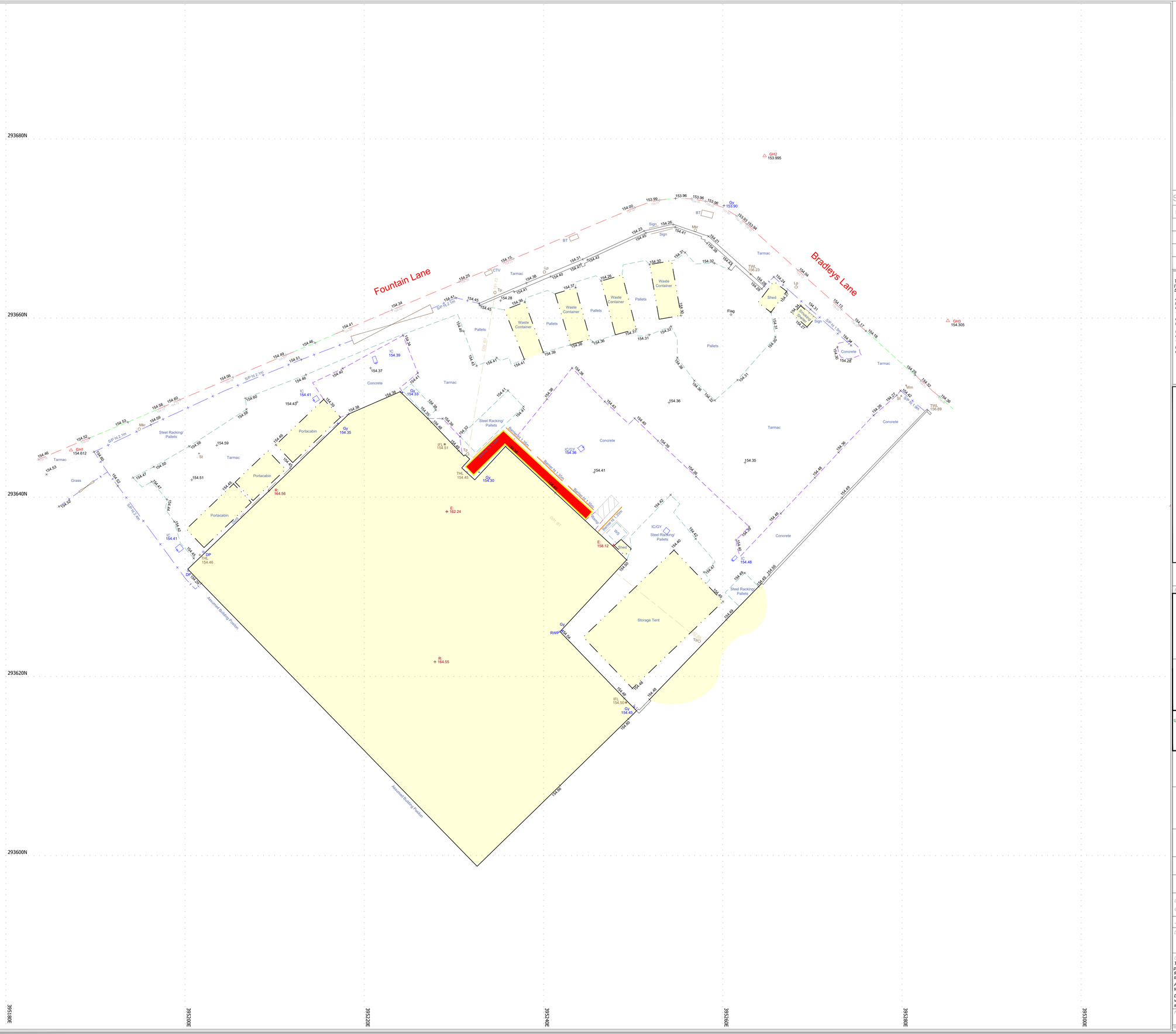

N

Station Information:

Station	Easting (m)	Northing (m)	Level (m)
GH1	395187.263	293645.278	154.612
GH2	395264.668	293678.124	153.995
GH3	395285.114	293659.713	154.305
GH4	395310.072	293639.107	154.638

OS Note:

This survey has been orientated to the Ordnance Survey (O.S) National Grid OSGB36(15) via Global Navigation Satellite Systems (GNSS) and the O.S. Active Network (OS Net).

A true OSGB36 coordinate has been established near to the site centre via a transformation using the OSTN15GB & OSGM15GB transformation models.

The survey has been correlated to this point and a further one or more OSGB36 (15) points established to create a true O.S. bearing for angle orientation.

No scale factor has been applied to the survey therefore the coordinates shown are arbitrary & not true O.S. Coordinates which have a scale factor applied.

Please refer to Survey Station Table to enable establishment of the on-site grid and datum.

Legend:

Boundary
Hedge
Kerb Stone
Line marking
Cross kerb
Centre line
Top of bank
Bottom of bank
Overhead Cable
Concrete edge
Tarmac edge
Grass verge
Cliff/Quarry/Overhang
Bottom of bank
Stations and Name
100.000 Station Level
Tree / Bush / Sapling
Area of Undergrowth
Woodland
Ridge Level
Eaves Level
Flat Roof Level
Gate

Fence types:
HW Hedgerows
WI Iron Railings
WM Wire Mesh
PR Post & Rail
PW Post & Wire
CL Chain Link
WP Wooden Panels
CB Close Boarded
SP Steel Palisade

IC Inspection chamber
Pillar Pipe Inv.
IS Pipe Invert
Gy Gully
Rg Back gully
Dp Down pipe
Pipe Pipe above ground
MH Manhole
WL Water level
FI Flood light
Lp Lamp post
Tp Telegraph post
Ep Electricity post
Tr Traffic light
Box Box stop
Sv Stop valve
St Stop tap
Ev Earth rod
Wm Water meter
Gas Gas valve
Av Air valve
ICU Unidentified inspection
Wo Wash out
Ra Rodding eye
BB Bellmix beacon
CTV Cable tv
Mkr Marker post
Gmkr Gas marker post
So Soffit
Fh Fire hydrant

Bol Bollard
IS Illuminated bollard
Bin Rubbish bin
Vp Vent pipe
Gnd Ground light
Llbox Letter box
Stmp Tree Stump
Slte Slite
IFL Internal floor level
THL Threshold level
Sp Sign post
TH Triathole
BH Borehole
ELC Electric
BT British Telecom
Ctrbx Control box
TT Tactile
BP Brick paved
CPS Concrete paving slabs
CVR Cover
Rwall Retaining wall
TWL Top of Wall Level
WS Weighing Scales
Gi Girth
MG Mesh girth
IC Inspection chamber
CL Cover level
IL Invert level
UTL Unable to lift

Rev.	Date	Description	Drawn	Q. Ref.

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CLIENT
Recyclus Group Ltd
T/A Halo Battery Recycling

PROJECT
St Georges Works
Bradleys Lane
Tipton, DY4 9EZ

TITLE
Topographical Survey

SCALE	DATE
A1@ 1: 200	10.11.2019
DRAWN	QUALITY REF.
ST	GH6251

Level datum	See note
Grid orientation	See note
Job number	35175

Drawing No. **35175_T** Rev. **0**

Comments
This plan should only be used for its original purpose. Greenhatch Group accepts no responsibility for this plan if supplied to any party other than the original client.

All dimensions should be checked on site prior to design and construction.

Drainage information (where applicable) has been visually inspected from the surface and therefore should be treated as approximate only.

Notes:

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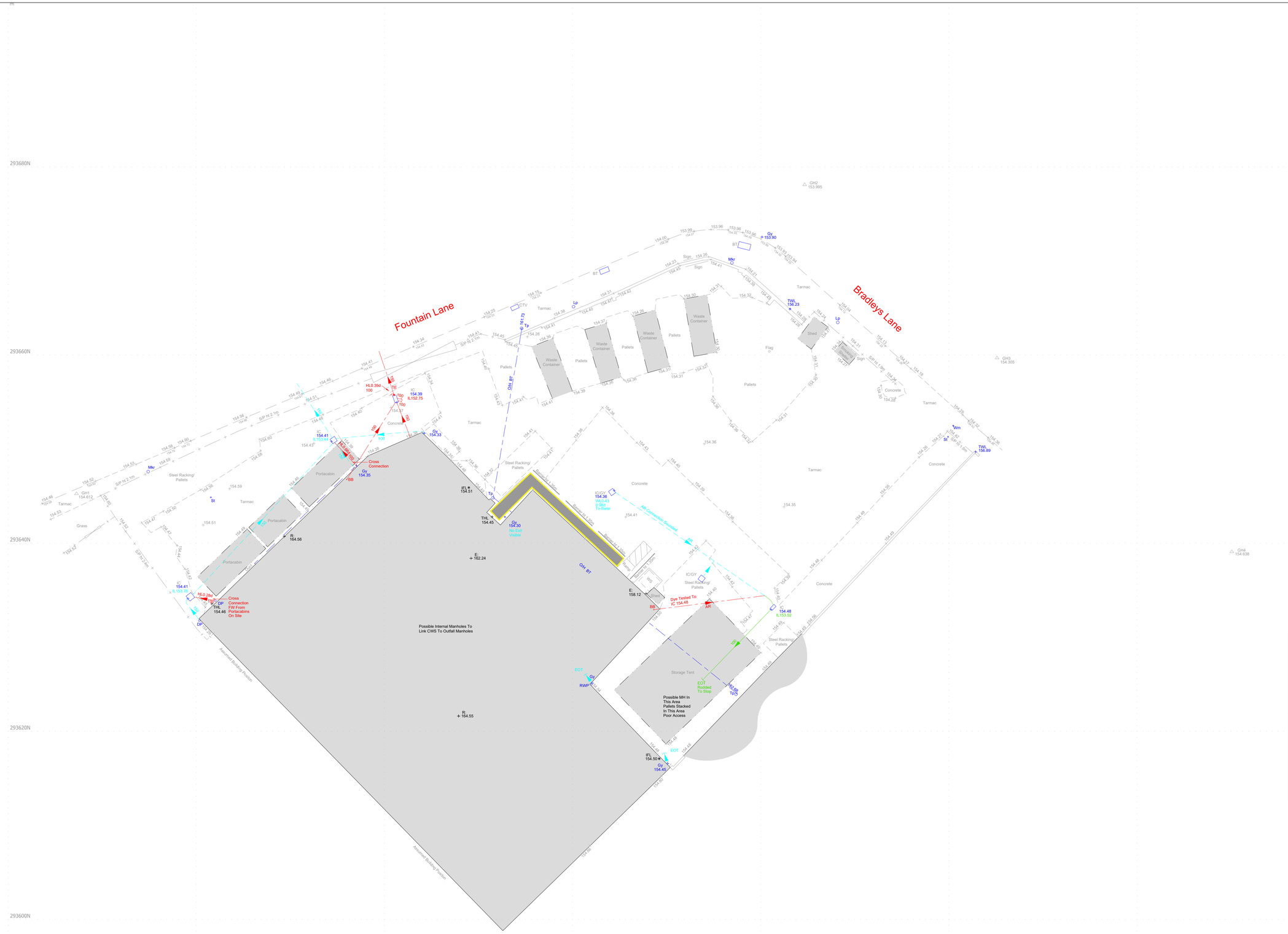

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NOTES;

UTILITY KEY

- ELECTRIC CABLE
- ELECTRIC & COMMS CABLE
- TS — TRAFFIC SIGNAL CABLE
- TELECOMS CABLE
- TV — CABLE TELEVISION
- COM — COMMUNICATION CABLE
- WATER PIPE
- GAS PIPE
- FOUL DRAINAGE
- CONTAMINATED SURFACE DRAINAGE
- SURFACE DRAINAGE
- COMBINED DRAINAGE
- PUMPING MAIN
- F — FUEL PIPE
- V — VENT PIPE
- O — OFFSET FILL PIPE
- G — GAUGE LINE
- VR — VAPOUR RECOVERY
- SERVICE DUCTS
- H — HEATING PIPES
- UNIDENTIFIED SIGNAL
- END OF TRACE

ABBREVIATIONS

AC	ASBESTOS CEMENT	MW	MONITORING WELL
AR	ASSUMED ROUTE	OH	OVERHEAD
BB	BASE BEND	OSA	OFF SURVEY AREA
BD	BACKDROP	PE	POLYETHYLENE
BH	BOREHOLE	PL	PLASTIC
BR	BRICK	PO	POLYPOT
CI	CAST IRON	PVC	POLYVINYL CHLORIDI
CL	COVER LEVEL	RE	RODDING EYE
CO	CONCRETE	RWP	RAIN WATER PIPE
CR	CABLE RISER	S/A	SOAKAWAY
CP	CATCHPIT	SI	SPUN IRON
CI	CAST IRON	ST	STOP TAP
DP	DOWN PIPE	S.T	STEEL
ED	EMPTY DUCT	SV	SLUICE VALVE
EOBC	END OF TRENCH SCAR	SVP	SOIL VENT PIPE
EOT	END OF TRACE	TE	TRAPPED EXIT
ER	EARTHING ROD	TFR	TAKEN FROM RECOR.
EP	ELECTRICITY POLE	TL	TRAFFIC LIGHT
FH	FIRE HYDRANT	TP	TELEGRAPH POLE
Gy	GULLY	UTCCTV	UNABLE TO CCTV
GPR	GROUND PENETRATING RADAR	UTF	UNABLE TO FIND
GRP	GLASS REINFORCED PLASTIC	UTL	UNABLE TO LIFT
GV	GAS VALVE	UTS	UNABLE TO SURVEY
HL	HIGH LEVEL	VC	VITRIFIED CLAY
HOR	HEAD OF RUN	VP	VENT PIPE
IC	INSPECTION CHAMBER	VR	VAPOUR RECOVERY
IL	INVERT LEVEL	WL	WATER LEVEL
LP	LAMP POST	WM	WATER METER
MH	MANHOLE	WO	WASH OUT VALVE
SWS	SURFACE WATER SEWER		
FWS	FOUL WATER SEWER		
CWS	COMBINED WATER SEWER		

DISCLAIMER

ELECTRO-MAGNETIC TECHNIQUES AND/OR GROUND PENETRATING RADAR HAVE BEEN USED IN THE LOCATION OF UNDERGROUND SERVICES. 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 RECOR. DRAWINGS, THE COMPLETENESS OF THE UNDERGROUND SERVICES INFORMATION CANNOT BE GUARANTEED. THE METHOD OF SURVEY DOES NOT ALLOW FOR THE DETECTION OF ALL UNDERGROUND SERVICES AND AS SUCH ALL SERVICES SHOULD BE TREATED AS LIVE.

WHERE SERVICES ARE NON-METALLIC POSITIONS MAY BE TAKEN FROM RECORDS, TRENCH SCARS & SURFACE DETAIL.

WHERE QUOTED, DEPTH ESTIMATIONS ARE GENERALLY TO THE CENTRE OF THE SERVICE. DEPTHS TO GRAVITY SEWERS AND DRAINAGE ARE GENERALLY TO INVERT LEVELS UNLESS OTHERWISE STATED.

PIPE SIZES WHICH CANNOT BE OBTAINED BY VISUAL SURVEY ARE TAKEN FROM RECORD DRAWINGS OR MARKER PLATES WHERE AVAILABLE.

WHERE GROUND PENETRATING RADAR HAS BEEN USED IT WILL PRIMARILY HAVE BEEN TO IDENTIFY UNDERGROUND UTILITIES IF POSSIBLE WE WILL ALSO IDENTIFY UNDERGROUND STRUCTURES/ TANKS ETC. BUT CANNOT GUARANTEE TO HAVE LOCATED ALL SUCH ITEM THE USE OF RADAR CAN BE LIMITED BOTH BY SURFACE CONDITIONS AND ALSO BY SOIL TYPE. DEPTH ESTIMATES WOULD NOT NORMALLY BE PROVIDED FOR SERVICES LOCATED WITH GPR.

Rev	Date	Description	Drawn	Q. Re

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CLIENT
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T/A Halo Battery Recycling

PROJECT
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Bradley's Lane
Tipton DY4 9EZ

TITLE
Underground Drainage Survey

SCALE	DATE
A1@ 1: 200	12.11.19
DRAWN	QUALITY REF
DOT	13897

Level datum	
Grid orientation	
Job number	35175

Drawing No. 35175_UG — Rev. 0

Comments
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Notes:

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