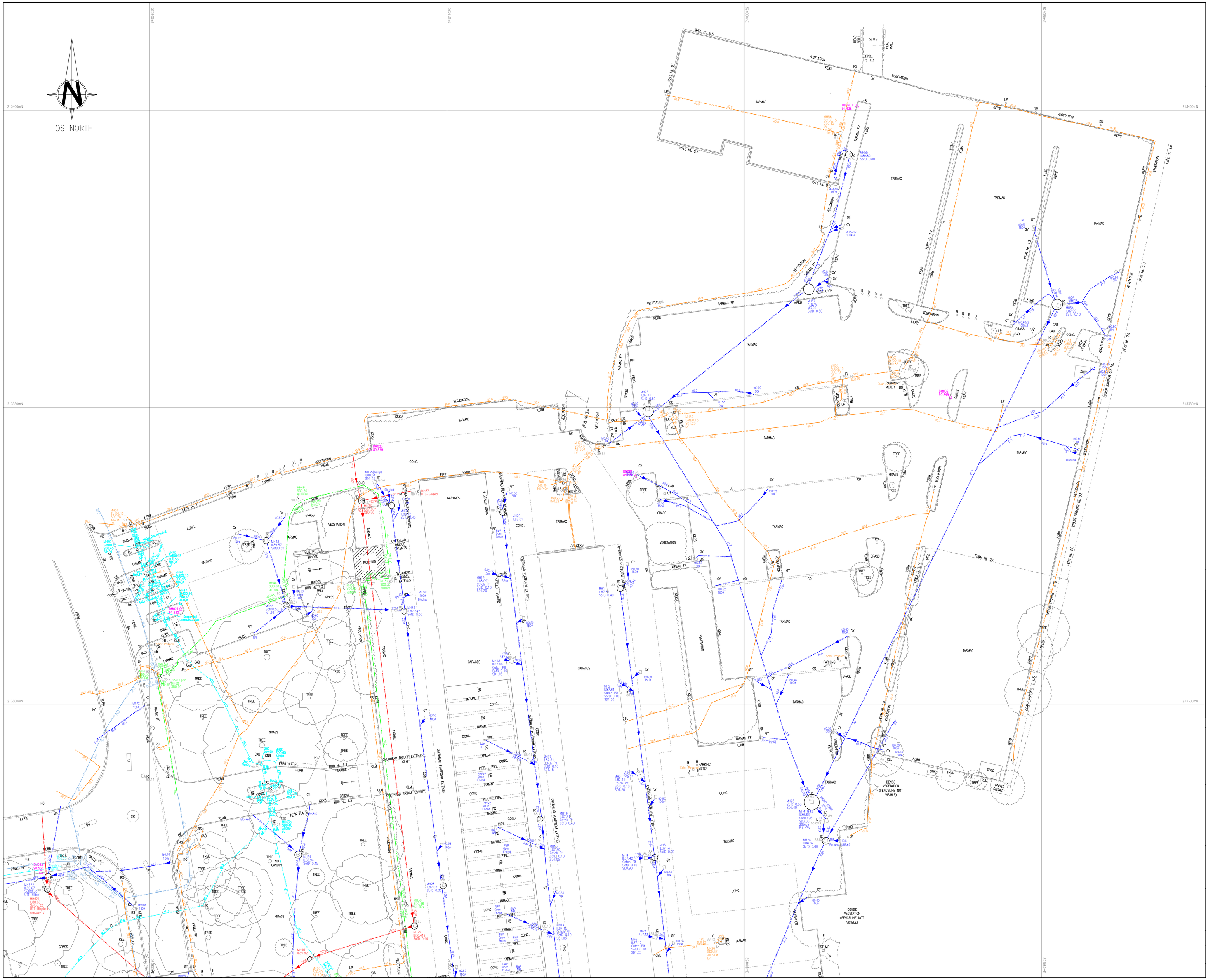
# Appendix E
# WYG Utility Tracing Survey and Draincare CCTV Survey




DO NOT SCALE: CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ANY OMISSIONS OR ERRORS

## NOTES

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2. ALL LEVELS ARE IN METRES AND RELATED TO NEWLYN DATUM, ALL CO-ORDINATES ARE RELATED TO OS SITE GRID VIA GNSS OBSERVATIONS.
3. FOR DETAILED TOPOGRAPHICAL SURVEY, REFER TO DRAWINGS WYG001-007.

## UTILITIES ABBREVIATIONS

| | |
|---|---|
| (AC) | ASSUMED CONNECTION |
| AR | ASSUMED ROUTE |
| BML | BACK-DROP LEVEL |
| CATV | CABLE TELEVISION |
| Cd | CABLE DEPTH |
| CI | CAST IRON |
| CR | CABLE RISER |
| d | DEPTH OF SERVICE (APPROX) |
| Dd | DUCT DEPTH |
| DI | DUCTILE IRON |
| (e) | EMPTY DUCT |
| ET | ELECTRONICALLY TRACED |
| EOT | END OF TRACE |
| FH | FIRE HYDRANT |
| GV | GAS VALVE |
| Id | INVERT DEPTH |
| IL | INVERT LEVEL |
| KO | KERB OUTLET |
| HV | HIGH VOLTAGE |
| LD | LAND DRAIN |
| LV | LOW VOLTAGE |
| NFI | NO FURTHER INFORMATION |
| NPV | NO PIPES VISIBLE |
| NSV | NO SERVICE VISIBLE |
| Pd | PIPE DEPTH |
| PE | POLYETHYLENE |
| RE | RODDING EYE |
| PR | PIPE RISER |
| RWP | RAINWATER PIPE |
| SD | SUMP DEPTH |
| SL | SUMP LEVEL |
| SOFd | SOFFIT DEPTH |
| ST | STOP TAP |
| SV | SLUICE VALVE |
| UTL | UNABLE TO LIFT |
| UTT | UNABLE TO TRACE |
| WD | WAY-DUCT |
| WL | WATER LEVEL |
| WM | WATER METER |
| WV | WATER VALVE |

## PAS128 QUALITY LEVELS

| | |
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| (A) | HORIZONTAL AND VERTICAL POSITION VERIFIED VISUALLY (Accuracy: Horizontal (±20mm) Vertical(±50mm) |
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| (D) | ROUTE TRANSCRIBED FROM UTILITY ASSET PLANS (Accuracy Undefined) |

## ASSOCIATED DRAWINGS

WYG001 – WELWYN GARDEN CITY TOPOGRAPHICAL SURVEY SHEET 1 OF 14
WYG002 – WELWYN GARDEN CITY TOPOGRAPHICAL SURVEY SHEET 2 OF 14
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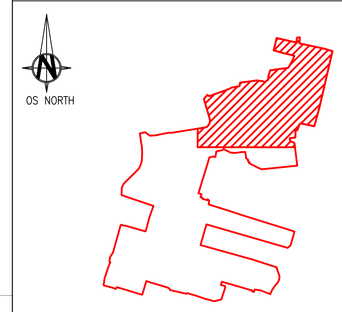
WYG013 – WELWYN GARDEN CITY UTILITIES SURVEY SHEET 13 OF 14
WYG014 – WELWYN GARDEN CITY UTILITIES SURVEY SHEET 14 OF 14

## LOCATION PLAN

HATCHED AREA SHOWN IN THIS DRAWING – BOLD LINE DEFINES SURVEY EXTENT




| REV | DESCRIPTION | BY | CHK | APP | DATE |
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LAMPLUGH ROAD
COCKERMOUTH
CA13 0QT

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FAX: +44 (0)1900 826 324
e-mail: cumbria@wyg.com

Project:
WELWYN GARDEN CITY

Drawing Title:
UTILITIES SURVEY
SHEET 8 OF 14

| Scale @ A0 | Drawn | Date | Checked | Date | Approved | Date |
|---|---|---|---|---|---|---|
| 1:200 | ADEX | 03/02/2020 | MD | 03/02/2020 | TN | 03/02/2020 |

| Project No. | Office | Type | Drawing No. | Revision |
|---|---|---|---|---|
| A115249 | 22 | 01 | WYG008 | - |

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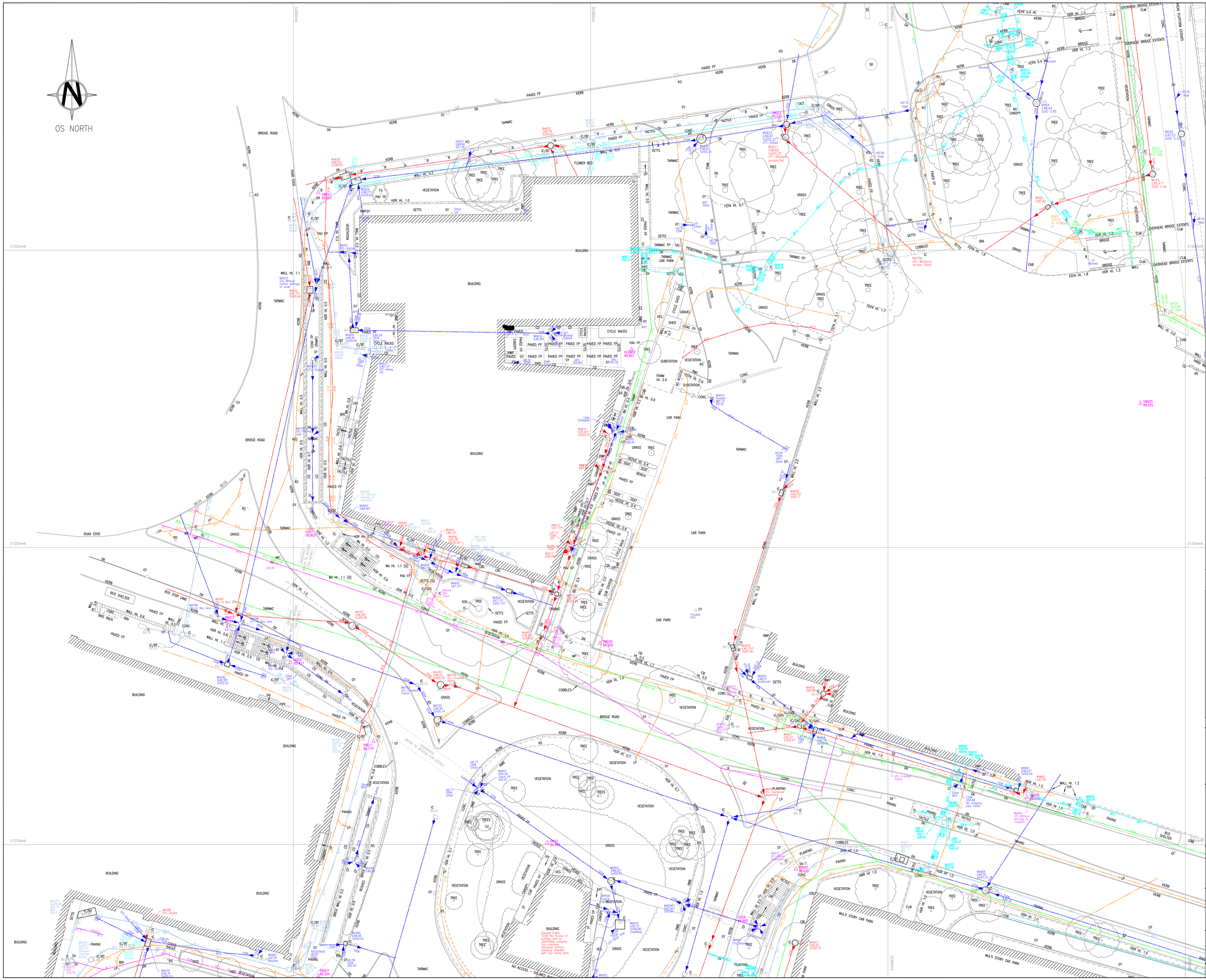


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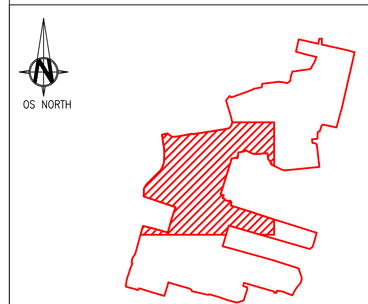


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TEL: +44 (0)1900 898 600
FAX: +44 (0)1900 826 324
e-mail: cumbria@wyg.com

Project:
WELWYN GARDEN CITY

Drawing Title:
UTILITIES SURVEY
9 OF 14

| Scale @ A0 | Drawn | Date | Checked | Date | Approved | Date |
|---|---|---|---|---|---|---|
| 1:200 | ADEX | 03/02/2020 | MD | 03/02/2020 | TN | 03/02/2020 |

| Project No. | Office | Type | Drawing No. | Revision |
|---|---|---|---|---|
| A115249 | 22 | 01 | WYG009 | P1 |

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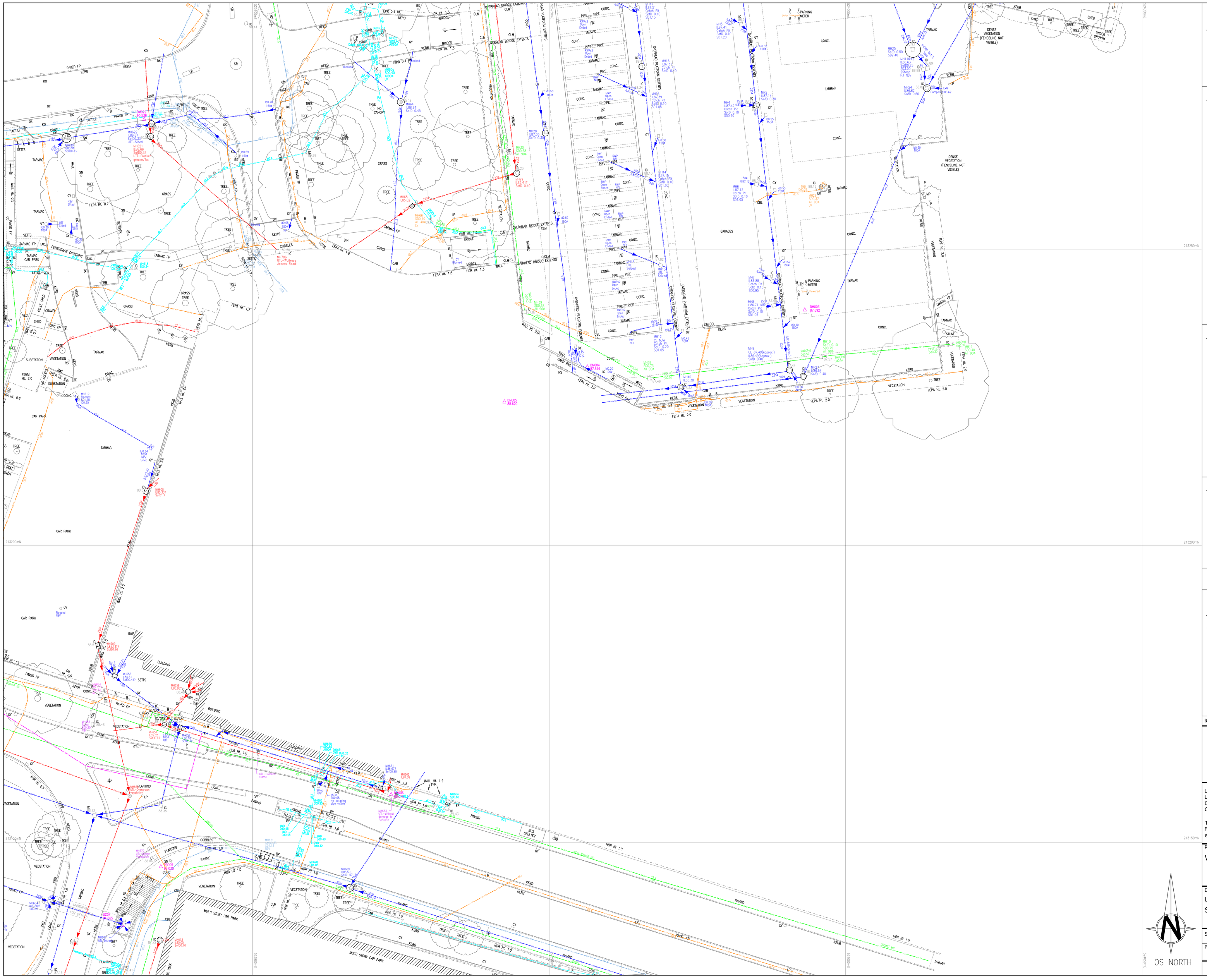


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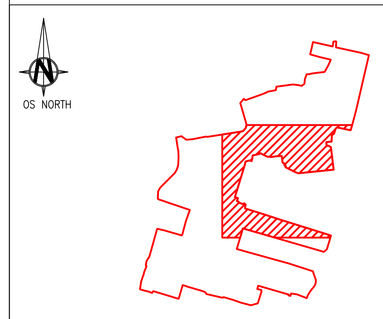


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0 2 4 6 8 10 m
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LAKELAND BUSINESS PARK
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Project:
WELWYN GARDEN CITY

Drawing Title:
UTILITIES SURVEY
SHEET 10 OF 14

| Scale @ A0 | Drawn | Date | Checked | Date | Approved | Date |
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| 1:200 | ADEX | 03/02/2020 | MD | 03/02/2020 | TN | 03/02/2020 |

| Project No. | Office | Type | Drawing No. | Revision |
|---|---|---|---|---|
| A115249 | 22 | 01 | WYG010 | P1 |

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## NOTES

1. EXISTING TOPOGRAPHICAL SURVEY INFORMATION TAKEN FROM WYG GROUP LTD DRAWING NUMBER A115249-WY0001.

## TOPO LEGEND

| | | | |
|---|---|---|---|
| AB | AERIAL BASE | IC/WO | INSPECTION COVER WASH OUT |
| AC | AIR CONDITIONING UNIT | J | TRACK JOINT |
| AV | AIR VALVE | LJ | TRACK JOINT |
| BB | BELGIKA BEACON | KO | KERB OUTLET |
| BC | BICYCLE RACK | LC | LITTER BIN |
| BM | BENCHMARK | LB | LITTER BIN |
| B | BOLLARD | LA | LAY DOWN AREA |
| BS | BUS STOP | LP | LIGHT POLE |
| BS | BUS STOP | LV | MANUAL VALVE |
| CAB | CABINET | MH | MANHOLE |
| CAB/BT | CABINET BRITISH TELECOM. | MHW | MEAN HIGH WATER LEVEL |
| CAB/EL | CABINET ELECTRIC | MLW | MEAN LOW WATER LEVEL |
| CAL | CALTRAP | MP | MARKER POST |
| CAL | CANOPY LEVEL | MP | MARKER POST |
| CB | CRASH BARRIER | MP/BT | MARKER POST BRITISH TELECOM. |
| CB | CATCH BASIN | MP/EL | MARKER POST ELECTRIC |
| CD | CHANNEL DRAIN | MP/GA | MARKER POST GAS |
| CDC | CONC. DUCT COVER | MP/WA | MARKER POST WATER |
| CG | CONCRETE OR STONE | NB | NOTICE BOARD |
| CGB | COLUMN | NP | NAME PLATE |
| CNB | CONCRETE BASE | OP | OVERHEAD STORE |
| CNP | CONCRETE PLINTH | OHBT | OVERHEAD BRITISH TELECOM. |
| CONC. | CONCRETE | OHCBL | OVERHEAD CABLES |
| CP | CAPPED POST | OHEL | OVERHEAD ELECTRIC |
| CPL | CROWN PIPE LEVEL | OHPL | OVERHEAD POWER LINES |
| CPS | CONC. PIPE SUPPORT | OHPS | OVERHEAD PIPE SUPPORT |
| CR | CRASH ROCK | OHPB | OVERHEAD PATERNOSTER |
| DB | DROP BARRIER | OHPPS | OVERHEAD PIPEBRIDGE SUPPORT |
| DBB | DROP BARRIER BOX | PT | POLE TOP |
| DBP | DROP BARRIER POST | PB | POINTS BOX |
| DK | DROP KERB | PC | PEDESTRIAN CROSSING |
| DE | DENALER | PCL | PEDESTRIAN CROSSING LINE |
| EEB | EMERGENCY EQUIPMENT BOX | PO | POINTS DETECTOR |
| EWL | EMERG. EYE WASH SHOWER | PL | PEDESTRIAN LIGHTING BOLLARD |
| EL | ENTRY LEVEL | PM | PARKING METER |
| EP | ELECTRIC POLE | PM | POINT MOTOR |
| EB | EARTH BOX | PRB | POST BOX |
| EC | ELEC. CONTROL | PS | POST |
| FE | FIRE EXTINGUISHER | PB | POINT BOXES |
| FECL | CHAINLINK FENCE | PS | PIPE SUPPORT |
| FEFR | FRAME FENCE | RL | ROOF LEVEL |
| FEPA | PANEL FENCE | RG | RODDING GRATE |
| FEPG | PALISADE FENCE | RWL | RAIN WATER PIPE |
| FEPL | PALISADE FENCE | RGL | RIDGE LEVEL |
| FEPR | POST & RAIL FENCE | RL | ROOF LEVEL |
| FEWM | WELDMESH FENCE | RP | REFLECTOR POST |
| FH | FIRE HYDRANT | RS | RAIN SPOUT |
| FL | FLOOD LIGHT | RSD | ROLLER SHUTTER DOOR |
| FL | FLOOD LEVEL | RTW | RETAINING WALL |
| FP | FOOTPATH | SA | SAMPLE POINT |
| FP | FOOTPRINT | SAP | SOIL SAMPLE |
| FS | FLAG STAFF | SAW | SAWING |
| G/S/W | GATE SINGLE SPREAD HEIGHT | SD | SINGLE DOOR |
| GAD | GATE DOUBLE | SG | SIGN, SIGNAL |
| GAS | GATE SINGLE | SL | SOFFIT LEVEL |
| GB | GAS BOTTLE STORE | SN | GENERAL SIGN |
| GB | GRIT BIN | SR | SPEED REDIRECTOR |
| GBS | GAS BOTTLE STORE | SRK | SAFETY RESPONSE KIT |
| GDC | GRATED DUCT COVER | STL | STILE |
| GP | GUARD POST | ST | STOP TAP |
| GRP | GRADE RING | STHR | STOP TAP HANDWHEEL |
| GV | GAS VALVE | SV | STOP VALVE |
| GY | GULLY | SVP | SOIL VENT PIPE |
| HB | HOSE BOX | TB | TELEBOX |
| HR | HEIGHT RESTRICTOR | TAC | TACTILE PAVING |
| HL | HEIGHT | TEL | TELEPHONE |
| I | INSPECTION BOX (NOT BURIED) | TL | TRAFFIC LIGHT |
| IC | INSPECTION COVER UNKNOWN | TL | THRESHOLD LEVEL |
| IC/BH | INSPECTION COVER BOREHOLE | TP | TELEGRAPH POLE |
| IC/BT | INSPECTION COVER BRITISH TELECOM. | TS | TRAFFIC SWITCH |
| IC/FH | INSPECTION COVER FIRE HYDRANT | UG | UNDERGIVE LEVEL |
| IC/EL | INSPECTION COVER ELECTRIC | UP | UTILITY POLE |
| IC/GA | INSPECTION COVER GAS | WJ | WELD JOINT |
| IC/SL | INSPECTION COVER STREET LIGHT | WL | WATER LEVEL |
| IC/WA | INSPECTION COVER WATER | WP | WATER POST |
| | | WS/GV | SURVEY STATION |

Client
WELWYN & HATFIELD COUNCIL

Project
CAMPUS EAST CAR PARK
WELWYN GARDEN CITY

Title
CCTV SURVEY
MAIN SPINE PIPEWORK LAYOUT

Drawing Number
TS21-081-DC1

| Revision | Description | Date |
|---|---|---|
| | | |

Scale 1:200@A0 | Sheet 1 of 2

| Drawn by | Checked by | Date of Survey |
|---|---|---|
| JL | GG | FEB 2021 |


**Draincare Ltd**
Unit 20
Martinfield Business Centre,
Welwyn Garden City, Herts,
AL7 1HG

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## NOTES

1. EXISTING TOPOGRAPHICAL SURVEY INFORMATION TAKEN FROM WYG GROUP LTD DRAWING NUMBER A115249-WYG001.

## TOPO LEGEND

| | | | |
|---|---|---|---|
| AM | AERIAL MAST | IC/WO | INSPECTION COVER WASH OUT |
| AC | AIR CONDITIONING UNIT | TL | WATER LEVEL |
| AP | ACCESS PANEL | LS | LIGHT SWITCH |
| BM | BELISHA BEACON | MO | MAIN POWER OUTLET |
| BLL | BED LEVEL | LAD | LADDER |
| BH | BOREHOLE | LB | LITTER BIN |
| BW | BOLLARD | LA | LAY DOWN AREA |
| BX | BOXPIPE | LP | LAMP POST |
| BS | BUS STOP | ME | METRES EAST |
| CAB | CABINET | MN | MANHOLE |
| CAB/BT | CABINET BRITISH TELECOM | MWL | MEAN WATER LEVEL |
| CAB/EL | CABINET ELECTRIC | MLW | MEAN LOW WATER LEVEL |
| CAM | CAMERA | MN | METRES NORTH |
| CL | CABLE LEVEL | MO | MAIN POWER OUTLET |
| CB | CHAIN BARRIER | MP/BT | MARKER POST BRITISH TELECOM |
| CBL | CABLE | MP/EL | MARKER POST ELECTRIC |
| CD | CHANNEL DRAIN | MP/GA | MARKER POST GAS |
| CDO | CONC. DUCT OVERD | MP/WA | MARKER POST WATER |
| CGS | CONC. GAS SIL STORE | MS | MAST STAY |
| CLM | COLUMN | MT | MAKE PLACE |
| CNB | CONCRETE BASE | OH | OVERHEAD TEMC |
| CNP | CONCRETE PLATFO | OHBT | OVERHEAD BRITISH TELECOM. |
| CONC | CONCRETE | OHCEL | OVERHEAD CABLES |
| CP | CATCHPIT | OHPL | OVERHEAD PIPES |
| CPL | CONC. PIPE LEVEL | OHPS | OVERHEAD POWER LINES |
| CPS | CONC. PIPE SUPPORT | OHPSP | OVERHEAD POLE SUPPORT |
| CT | CABLE TRAY | OHPB | OVERHEAD PIPEBRIDGE |
| CB | CRASH BARRIER | OHPBS | OVERHEAD PIPEBRIDGE SUPPORT |
| DBB | DROP BARRIER BOX | PCL | POLE |
| DBP | DROP BARRIER POST | PB | PARKING BOX |
| DK | DROP KERB | PC | PEDESTRIAN CROSSING |
| DL | DATALECT | PCN | POINT CROSSING NOSE |
| DSB | DATALECT EQUIPMENT BOX | PD | PEDESTRIAN DOOR |
| EW | EMERGENCY SHOWER | PL | PEDESTRIAN LIGHTING BOLLARD |
| EL | EAVES LEVEL | PLB | POINTS LEVER |
| EP | ELECTRIC PEDESTAL | PLD | POINTS LEVER DOOR |
| EX | EARTH ROD | PM | POST BOX |
| FBOS | FLOWER BEDS | PO | POST |
| FE | FIRE EXTINGUISHER | PR | POWER ROOM |
| FCL | CHAINLINK FENCE | PS | PIPE SUPPORT |
| FENE | TEMP. HERAS FENCE | PT | PERCOLATION |
| FEPR | PALISADE FENCE | RGS | PEDESTRIAN BARRIER |
| FEPW | PALISADE FENCE | RLL | RIDGE LEVEL |
| FEPW | POST & WIRE FENCE | RL | ROOF LEVEL |
| FEPW | POST & RAIL FENCE | RP | REFLECTOR POST |
| FEMW | MESLIMESH FENCE | RS | ROAD SIGN |
| FL | FLOOR LEVEL | RSD | ROLLER SHUTTER DOOR |
| FL | FLOOR LIGHT | RTW | RETAINING WALL |
| FLL | FLOOR LEVEL | SWP | SIGN WASTE PIPE |
| FP | FLAG POLE | SL | SIGN LIGHT |
| FS | FLAG STAFF | SP | SUMP LIGHT |
| G/T/P/ | TREE DATA SPREAD HEIGHT | SD | SLIDING DOOR |
| GAD | GAS DANGER | SG | RAIL SIGNAL |
| GAS | GAS SIL STORE | SL | SERVE LEVEL |
| GATE | GATE TURNSTILE | SN | SERVICE NOSE |
| GB | GRIT BIN | SR | SPEED RESTRICTOR |
| GBS | GAS BOTTLE STORE | SRK | SPILL RESPONSE KIT |
| GC | GAS CONTROL VALVE | ST | STAIRS |
| GP | GRADIENT POST | TP | STOP TAP |
| GRP | GRIDICE POINT | STHDR | STEPS WITH HANDRAIL |
| GT | GAS TAP | TB | TRAFFIC BOX |
| GV | GULLY | TDP | TOP DEAD PIPE |
| HDR | HANDRAIL | TEW | TEST WIRE |
| HL | HEAD LIGHT RESTRICTOR | TH | TRUNCHEON |
| HT | HEIGHT | TL | TRAFFIC LIGHT |
| IB | INSPECTION BOX (NOT BURIED) | TSL | THRESHOLD LEVEL |
| IC | INSPECTION COVER UNKNOWN | TP | TELEGRAPH POLE |
| IC/BH | INSPECTION COVER BOREHOLE | TV | TELEVISION POLE |
| IC/BT | INSPECTION COVER BRITISH TELECOM. | UL | UNDERSIDE LEVEL |
| IC/FH | INSPECTION COVER FIRE HYDRANT | VP | VENT PIPE |
| IC/EL | INSPECTION COVER ELECTRIC | WC | WATER CAP |
| IC/GA | INSPECTION COVER GAS | WL | WATER LEVEL |
| IC/SL | INSPECTION COVER STREET LIGHT | WP | WASTE PIPE |
| IC/WA | INSPECTION COVER WATER | WPDXX | SURVEY STATION |

0 5 10 20 30 40 50 m
SCALE 1:200

Client
WELWYN & HATFIELD COUNCIL

Project
CAMPUS EAST CAR PARK
WELWYN GARDEN CITY

Title
CCTV SURVEY
MAIN SPINE PIPEWORK LAYOUT

Drawing Number
TS21-061-DC2

| Revision | Description | Date |
|---|---|---|
| | | |

| Scale | Sheet |
|---|---|
| 1:200@A0 | 2 of 2 |

| Drawn by | Checked by | Date of Survey |
|---|---|---|
| JL | GG | FEB 2021 |


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