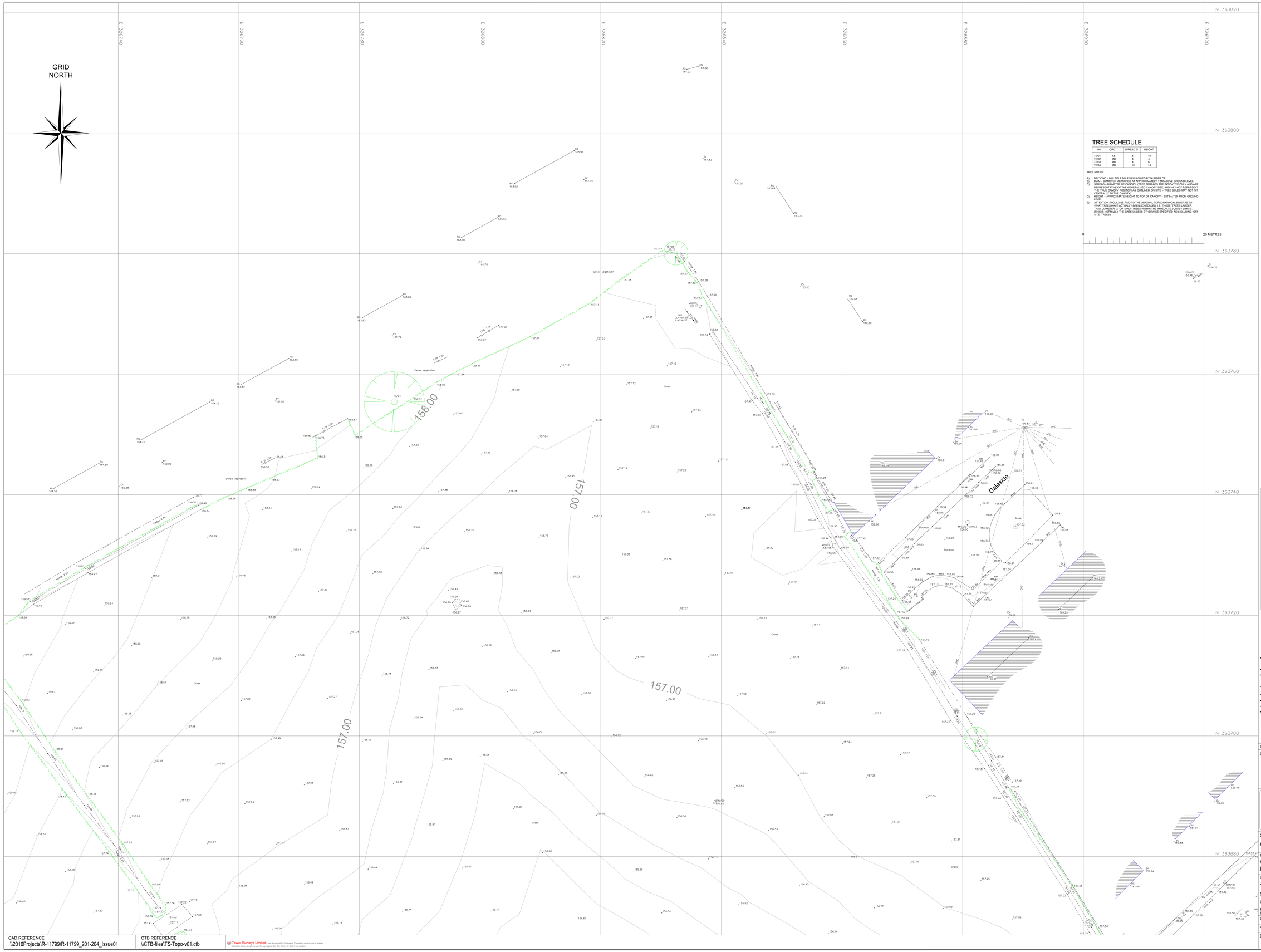



## TREE SCHEDULE

| No. | CIRC. | SPREAD Ø | HEIGHT |
|---|---|---|---|
| TE/01 | 1.5 | 8 | 10 |
| TE/02 | MB | 4 | 6 |
| TE/03 | MB | 4 | 6 |
| TE/04 | MB | 10 | 14 |

TREE NOTES:

A) MB "X" NO – MULTIPLE BOLES FOLLOWED BY NUMBER OF.
B) DIAM – DIAMETER MEASURED AT APPROXIMATELY 1.5M ABOVE GROUND LEVEL
C) SPREAD – DIAMETER OF CANOPY. (TREE SPREADS ARE INDICATIVE ONLY AND ARE REPRESENTATIVE OF THE GENERALISED CANOPY SIZE, AND MAY NOT REPRESENT THE TREE'S ACTUAL SHAPE AS OUTLINED ON SITE – TREE BOLES MAY NOT SIT CENTRALLY TO THE CANOPY)
D) HEIGHT – APPROXIMATE HEIGHT TO TOP OF CANOPY – ESTIMATED FROM GROUND LEVEL
E) ATTENTION SHOULD BE PAID TO THE ORIGINAL TOPOGRAPHICAL BRIEF AS TO WHAT TREES HAVE ACTUALLY BEEN SCHEDULED. I.E. THOSE "TREES LARGER THAN DIAMETER "X" OR "ONLY TREES WITHIN THE IMMEDIATE SURVEY LIMITS". (THIS IS NORMALLY THE CASE UNLESS OTHERWISE SPECIFIED AS INCLUDING "OFF SITE" TREES).

0 — 20 METRES

## NOTES

A0

1. SURVEY CONTROL

A) SURVEY GRID (HORIZONTAL)

THIS SURVEY IS ORIENTATED TO ORDNANCE SURVEY GRID NORTH. THE SURVEY IS TO A PLANE GRID, HORIZONTAL MEASUREMENTS TAKEN FROM THIS SURVEY WILL BE GROUND DISTANCE.

FULL ORDNANCE SURVEY CO-ORDINATES CAN BE CALCULATED BY SCALING THE SURVEY ABOUT THE SITE CENTRE, WITH CO-ORDINATES E 326765.500 N 363835.500 AS FOLLOWS.

SHIFT : NOT REQUIRED
SCALE : LSF = 0.99967.
ROTATION: NOT REQUIRED.

THE LOCAL SCALE FACTOR (LSF) APPLICABLE TO THIS SITE IS 0.99967, CALCULATED USING STANDARD TABULATED DATA.

THE CONTROL HAS BEEN ESTABLISHED BY TYING INTO THE ACTIVE ORDNANCE SURVEY CONTROL NETWORK. SEE NOTE C. BELOW.

(FOR THIS RELATIVELY LOW LEVEL SITE, MEAN SEA LEVEL CORRECTIONS (MSL) ARE DEEMED TO BE INSIGNIFICANT AND HAVE THEREFORE NOT BEEN APPLIED.)

B) VERTICAL DATUM:

ALTITUDES FOR THE CONTROL HAVE BEEN CALCULATED FROM GPS DERIVED HEIGHTS AND CONVERTED TO ORTHOMETRIC HEIGHTS (ORDNANCE DATUM NEWLYN - ODN) USING OSGM02 TRANSFORMATION PARAMETERS.

C) GPS CONTROL:

THE CO-ORDINATE SYSTEM USED FOR THE PRIMARY CONTROL IS OSGB36. THIS HAS BEEN CALCULATED FROM ETRS89 USING OSTN02 TRANSFORMATION PARAMETERS.

METHOD: FOR THIS PARTICULAR PROJECT, THE "TRIMBLE VRS NOW" NETWORK HAS BEEN USED. OBSERVATIONS HAVE BEEN TAKEN ON THE FOLLOWING DATE (S): 03/05/16

MANUFACTURERS QUOTED ACCURACY IS RMSE '0 – 20 mm IN PLAN AND 20 – 30 mm IN HEIGHT. HOWEVER, RESULTS MAY VARY DURING THE DAY AND CERTAIN CONDITIONS COULD CAUSE DEGRADATION TO THE FINAL SOLUTIONS. FOR SALIENT CONTROL AND WHEREVER POSSIBLE AND PRACTICAL, TOWER SURVEYS HAVE USED AN OPEN SKY VIEW TO SATELLITE GEOMETRY SO AS TO MAINTAIN THE HIGHEST ACCURACY POSSIBLE.

2.THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS/DOCUMENTATION.

3.CHECK SCALE BAR AND GRID BEFORE TAKING NON-FIGURED DIMENSIONS FROM THIS DRAWING.

4.IF IN DOUBT ASK.

## LEGEND

- SPOT LEVEL
- SURVEY STATION
- SAPLING
- BUSH/SHRUB
- HEDGE/AREA OF UNDERGROWTH
- TREE (INDICATIVE ONLY)
- BUILDING
- CONTOUR
- RETAINING WALL
- BANKING
- GATE
- OVERHEAD CABLE
- FENCE WITH DESCRIPTION

| | |
|---|---|
| C/B | CLOSE BOARDED |
| CL | CHAIN LINK |
| H/M | HIT AND MISS |
| I/R | IRON RAILING |
| P/R | POST AND RAIL |
| P/W | POST AND WIRE |
| P/R | POST AND RAIL |
| P/S | POST AND STRING |
| W/M | WIRE MESH |

## ABBREVIATIONS

| | | | |
|---|---|---|---|
| A/R | APEX ROOF LEVEL | LB | LITTER BIN |
| B | BOLLARD | LP | LAMP POST |
| BB | BELISHA BEACON | MKR | MARKER POST |
| BL | BED LEVEL | MH | MANHOLE |
| BP | BUS STOP PATH | MH/C | MANHOLE-CIRCULAR |
| BP | BOUNDARY POST | MH/S | MANHOLE-SQUARE |
| BS | BUS STOP | MH/T | MANHOLE-TRIANGULAR |
| BT | BRITISH TELECOM IC | MP | MILE POST |
| CATV | CABLE TELEVISION IC | PB | PILLAR BOX |
| CB | CATCH BASIN/PIT | PC | PHONE |
| CL | COVER LEVEL | PM | PARKING METER |
| COL | COLUMN | P | POST |
| CP | CATCH PIT | PYL | ELECTRIC PYLON |
| CR | CROSS ROAD LEVEL | RE | BUILDING EVE |
| DK | DROP KERB | R/R/G | ROOF/RIDGE LEVEL |
| DRN | DRAIN | RNP | ROAD NAME PLATE |
| DWP | DOWN WATER PIPE | RS | ROAD SIGN |
| E | ELECTRIC IC | RWP | RAIN WATER PIPE |
| EC | ELECTRICITY CONTROL BOX | SC | STOP COCK |
| ECB | ELECTRICITY CABLE | SFL | SOFFIT LEVEL |
| EV | EAVES LEVEL | SGY | STRIP GULLY |
| EP | ELECTRICITY POLE | SP/B | SIGN POST/BOARD |
| F | FENCE LEVEL | SP | SPOT LEVEL |
| FFL | FINISHED FLOOR LEVEL | SV | STOP VALVE |
| FH | FIRE HYDRANT | SW | STORM WATER |
| FL | FLOOD LIGHT | TAP | WATER TAP |
| FW | FOUL WATER | TCB | TELEPHONE CALL BOX |
| G | GULLY | TF | TRAFFIC LIGHT |
| GV | GAS VALVE | TL | TRAFFIC LIGHT |
| GP | GATE POST | TOF | TOP OF FENCE |
| IC | INSPECTION COVER | TP | TELEPHONE POLE |
| IL | INVERT LEVEL | TWL | TOP OF WALL |
| IC/M | INSPECTION COVER/ MH | VP | VENT PIPE/ VENT |
| KB | KERB | WL | WATER LEVEL |
| K/O | KERB OUTLET GULLY | WM | WATER METER |
| | | W/O | WASH OUT |

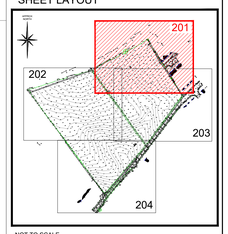
## STATION CO-ORDINATES

| STATION | EASTING | NORTHING | LEVEL | DESCRIPTION |
|---|---|---|---|---|
| STN/01 | 326923.51 | 363875.77 | 157.54 | SURVEY NAIL |
| STN/02 | 326879.72 | 363614.95 | 156.17 | PEG AND NAIL |
| STN/03 | 326807.14 | 363528.41 | 151.15 | PEG AND NAIL |
| STN/04 | 326936.82 | 363563.82 | 153.22 | SURVEY NAIL |
| STN/05 | 326739.86 | 363440.51 | 147.85 | SURVEY NAIL |
| STN/06 | 326884.59 | 363743.94 | 156.77 | SURVEY NAIL |
| STN/07 | 326918.45 | 363776.25 | 156.46 | SURVEY NAIL |
| STN/08 | 326939.44 | 363640.00 | 157.13 | SURVEY NAIL |
| STN/09 | 326838.90 | 363688.99 | 156.55 | PEG AND NAIL |

UNLESS OTHERWISE STATED THE SURVEY STATIONS LISTED ABOVE ARE ONLY INTENDED TO BE USED FOR TOPOGRAPHICAL SURVEYS AT THE STATED SCALE.

DUE CONSIDERATION SHOULD BE GIVEN TO LONG TERM STABILITY OF SURVEY STATION MARKERS.

## SHEET LAYOUT




NOT TO SCALE

## GENERAL

- NO ALLOWANCE HAS BEEN MADE FOR SUB SURFACE ENTRY INTO MANHOLES, OR OTHER SUBSTRUCTURES, OR FOR ANY WORK, PLANT OR MATERIALS, WHICH MAY BE REQUIRED. DEPTHS, SIZES ETC. ARE TAKEN FROM ABOVE GROUND AND AS SUCH WILL BE APPROXIMATE ONLY.
- IT IS THE CONTRACTOR IS TO CHECK AND VERIFY ALL CRITICAL DIMENSIONS AND LEVELS BEFORE WORK STARTS.
- BURIED SERVICES SHOWN ON THIS DRAWING MAY BE ASSUMED ROUTES AND WILL NORMALLY BE OF UNKNOWN CONDITION. CONTRACTORS SHOULD UNDERTAKE SUITABLE VALIDATION WORK AND TAKE PARTICULAR CARE DURING EXCAVATION WORK. SAFE DIGGING PRACTICES ARE ADVISED.
- SHOULD THERE BE ANY CONFLICT BETWEEN THE DETAILS INDICATED ON THIS DRAWING AND THOSE INDICATED ON OTHER DRAWINGS, THEN TOWER SURVEYS SHOULD BE INFORMED IMMEDIATELY FOR ADVICE.
- IT IS IMPORTANT TO NOTE THAT THE SAME ACCURACIES IMPLIED BY THE PLOTTING SCALE ARE EQUALLY APPLICABLE TO DIGITAL DATA SUPPLIED FOR CAD.
- THE SURVEY HAS BEEN CARRIED OUT TO SHOW GENERALLY PERMANENT FEATURES; HOWEVER, IT SHOULD BE BORNE IN MIND THAT THERE MAY BE ITEMS OBSCURED AT THE TIME OF SURVEY.
- VISIBLE FEATURES IN THE VICINITY OF THE BOUNDARIES, AS SHOWN ON THIS SURVEY, MAY NOT REPRESENT THE EXTENT OF LEGALLY CONVEYED OWNERSHIP.
- UNLESS OTHERWISE SPECIFIED FEATURES SHOWN USING LINE STYLES OR HATCHING ARE INDICATIVE ONLY, SUCH AS: ROAD MARKINGS, HEDGE CENTRELINES, BRICK HATCHING AND GLAZING DETAIL.

| DESCRIPTION | REV | DATE | DRWN | CHKD | APPR |
|---|---|---|---|---|---|

DRAWING STATUS

**INFORMATION**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CLIENT
OPUS INTERNATIONAL CONSULTANTS

PROJECT TITLE
WELL STREET, BUCKLEY
FLINTSHIRE

DRAWING DETAIL
TOPOGRAPHICAL SURVEY AS OF 04/05/16
SHEET 1 OF 4

| | | | |
|---|---|---|---|
| DRAWN | DT | DATE | MAY 2016 |
| PROJECT ENGINEER | PV | | |
| CHECKED | ML | SCALE | 1 : 200 (WHEN PLOTTED @ A0) |
| APPROVED | AC | | |

| DRAWING NUMBER | REVISION |
|---|---|
| R-11799/201 | |

CAD REFERENCE
\\2016Projects\R-11799\R-11799_201-204_Issue01

CTB REFERENCE
\\CTB-files\TS-Topo-v01.ctb

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