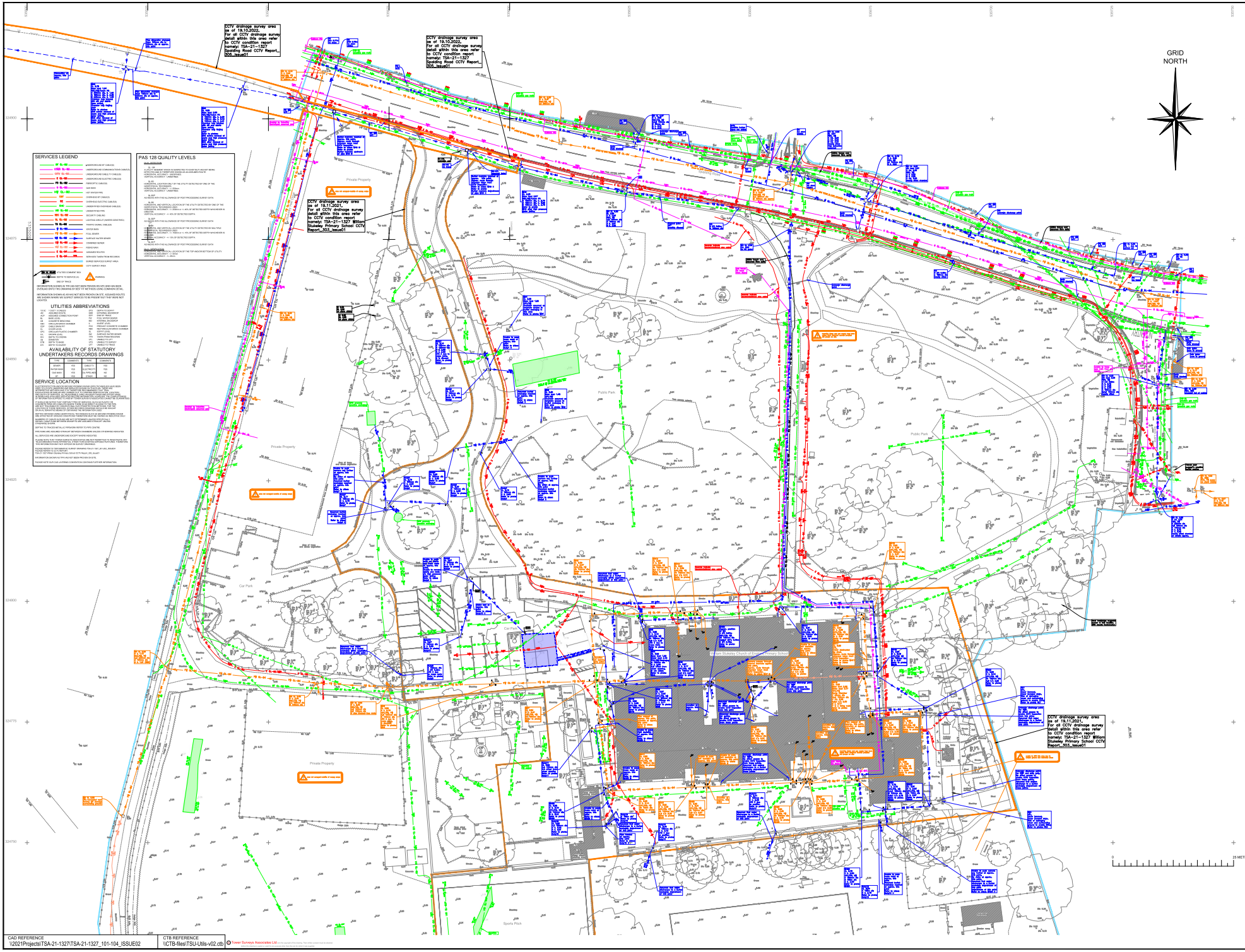


CAD REFERENCE
\\2021\Projects\TSA-21-1327\TSA-21-1327_101-104_ISSUE02

CTB REFERENCE
\\CTB-files\TSU-Utils-v02.ctb

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NOTES

1. SURVEY CONTROL

A) SURVEY GRID (HORIZONTAL)

TWO SURVEY IS ORIENTATED TO ORDNANCE SURVEY GRID NORTH. THIS SURVEY IS TO THE NATIONAL GRID (OSGB36). MEASUREMENTS TAKEN FROM THIS SURVEY WILL BE GROUND DISTANCE.

FULL ORDNANCE SURVEY CO-ORDINATES CAN BE CALCULATED BY SCALING THE SURVEY ABOUT THIS GIVEN SITE CENTRE POINT, WITH CO-ORDINATES E 335908.93 N 324728.60 AS FOLLOWS:

SHIFT - NOT REQUIRED
SCALE - LSF = 0.99983
ROTATION: NOT REQUIRED

THE LOCAL SCALE FACTOR (LSF) APPLICABLE TO THIS SITE IS 0.99983, 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

ALL STUDIES FOR THE CONTROL HAVE BEEN CALCULATED FROM GPS DERIVED HEIGHTS AND CONVERTED TO ORTHOMETRIC HEIGHTS (ORDNANCE DATUM NEWLYN - ODN) NEW OS NET USING OSGM15 TRANSFORMATION PARAMETERS.

C) GPS CONTROL:

THE CO-ORDINATE SYSTEM USED FOR THE PRIMARY CONTROL IS OSGB36. THIS HAS BEEN ACHIEVED BY USING TRIMBLE FROM STRIDENT NOW OS NET USING OSTN15 TRANSFORMATION PARAMETERS.

FOR THIS PARTICULAR PROJECT, THE TRIMBLE VRS NOW NETWORK HAS BEEN USED. OBSERVATIONS HAVE BEEN TAKEN ON: 14/10/2021

MANUFACTURERS QUOTED ACCURACY IN RMSE 10 - 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 DETAIL SURVEY WORK, THE SURVEYOR WILL ENSURE THAT THE SURVEY IS CARRIED OUT BY WITH GOOD 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
TREE (INDICATIVE ONLY)
HEDGE/RANK OF UNDERGROWTH
BUILDING
CONTOUR
RETAINING WALL
BANKING
GATE
OVERHEAD CABLE
FENCE WITH DESCRIPTION

CB	CLOSE BOARDED	LR	IRON RAILING
CL	CHAIN LINK	PW	POST AND WIRE
CR	CRASH BARRIER	SW	STOCK WIRE
ConcP	CONCRETE POST	WN	WIRE MESH

ABBREVIATIONS

ARR	ARCH ROOF LEVEL	MH	MANHOLE
B	BOLLARD	MP	MILE POST
BE	BEECH BEACON	OHC	OVERHEAD CABLE
BH	BOREHOLE	OHL	OVERHEAD LINE
BP	BUTT PLATE	PIT	PIT
BT	BOUNDARY POST	PM	PARKING METER
BW	BOX WORK	PO	POST
BT	BRITISH TELECOM (C)	PYL	ELECTRIC PYLON
CATV	CABLE TELEVISION (C	RC	RODDING EYE
CCTV	CLOSED CIRCUIT TELEVISION	RCC	RECTANGULAR CHEC
CCTV	CLOSED CIRCUIT TELEVISION	RNP	ROAD NAME PLATE
CL	CONIFER LEVEL	RS	ROAD SIGN
CP	CAT POST	RWP	RAIN WATER PIPE
CT	CONCRETE POST	SC	STOP COCK
CTV	CABLE TELEVISION POINT	SFL	SOFFIT LEVEL
DE	DECIDUOUS	SP	SIGN POST
DRN	DRAIN	SP	SIGN POSTBOARD
EC	ELECTRICITY CONTROL BOX	ST	STOP TAP
EH	ELECTRIC HUT	STA	SURVEY STATION
EI	ELECTRICITY COVER	SV	STOP VALVE
EP	ELECTRICITY POLE	SVF	SOIL VENT PIPE
FB	FLOWER BED	TAP	WATER TAP
FL	FINISHED FLOOR LEVEL	TAP	WATER TAP
FH	FIRE HYDRANT	TBM	TEMPORARY BENCHMARK
G	GRASS VERGE	TEL	TELEPHONE POLE
GI	POOL WATER	TFL	TARGETED LEVEL
G	GULLY	TL	TRAFFIC LIGHT
GV	GAS VALVE	TP	TELEGRAPH POLE
GP	GATE POST	TP	TELEPHONE POLE
IC	INSPECTION COVER	TSN	TOP OF WALL
IL	INVERT LEVEL	WT	WATER TAP
KO	KERB DEPRESSED GULLY	WV	WATER VALVE
LC	LAMP COLUMN	WO	WATER METER
LP	LAMP POST	WO	ASSH OUT
MWP	MARKER POST	WP	WASTE/SOIL PIPE

TREE NOTES

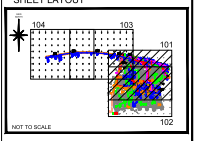
A) NB "X" NO. - MULTIPLE BOLES FOLLOWED BY NUMBER OF.
B) DIA. - TRUNK DIAMETER MEASURED AT APPROX 1.5M ABOVE GROUND LEVEL.
C) SPREAD - DIAMETER OF CANOPY. (TREE SPREADS ARE INDICATIVE ONLY AND ARE TAKEN AT THE FOUR CARDINAL POINTS AND ROUNDED TO THE NEAREST METRE)
TOP - TOP OF TREE (TAKEN FROM BASE OF CUT GRASS ON SITE) - TREE HEIGHTS MAY NOT BE 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 OF A CERTAIN TRUNK DIAMETER "X" DIA "ONLY TREES WITHIN THE IMMEDIATE SURVEY LIMITS" ETC.) AS IN MOST CASES THE CASE UNLESS OTHERWISE SPECIFIED AS INCLUDING "OFF SITE" TREES.

STATION CO-ORDINATES

STATION	EASTING	NORTHING	LEVEL	DESCRIPTION
ST01	336666.86	324877.97	4.37	SURVEY NAIL
ST02	336677.64	324878.07	4.42	SURVEY NAIL
ST03	336734.89	324859.77	4.45	SURVEY NAIL
ST04	336579.28	324805.90	4.19	SURVEY NAIL
ST05	336579.28	324805.90	4.19	SURVEY NAIL
ST06	336736.87	324797.26	4.45	SURVEY NAIL
ST07	336715.98	324825.09	4.22	SURVEY NAIL
ST08	336598.72	324891.43	3.25	SURVEY NAIL
ST09	336526.23	324768.71	3.33	SURVEY NAIL
ST10	336526.23	324768.71	3.33	SURVEY NAIL
ST11	336510.66	324728.04	3.29	SURVEY NAIL
ST12	336629.24	324862.23	3.50	SURVEY NAIL
ST13	336629.24	324862.23	3.50	SURVEY NAIL
ST14	336668.73	324803.73	3.73	SURVEY NAIL
ST15	336695.29	324798.69	3.75	SURVEY NAIL
ST16	336695.29	324798.69	3.75	SURVEY NAIL
ST17	336657.72	324794.01	3.91	SURVEY NAIL
ST18	336610.93	324784.27	3.97	SURVEY NAIL
ST19	336609.12	324761.12	3.60	SURVEY NAIL
ST20	336676.84	324777.92	3.91	SURVEY NAIL
ST21	336676.84	324777.92	3.91	SURVEY NAIL
ST22	336687.72	324757.34	3.83	SURVEY NAIL
ST23	336637.86	324759.68	3.78	SURVEY NAIL
ST24	336637.86	324759.68	3.78	SURVEY NAIL
ST25	336628.56	324747.05	3.76	PEG & NAIL
ST26	336669.27	324705.29	3.26	PEG & NAIL
ST27	336681.23	324721.17	3.23	PEG & 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



GENERAL

- NO ALLOWANCE HAS BEEN MADE FOR SUB SURFACE ENTRY INTO MANHOLES OR OTHER UNDERGROUND CHAMBERS. ALL DEPTHS TAKEN FROM TOP OF COVER TO INVERT OR GENERAL GROUND LEVEL UNLESS STATED. ALL TAKEN FROM RADIAL ENCROACHED ON BY VEG. NO APPROXIMATE ONLY.
- 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 SHOWN IN THEIR APPROXIMATE POSITIONS. THE CONTRACTOR SHALL ALLOW FOR HAND DIGGING WORK AND TAKE PARTICULAR CARE DURING EXCAVATION WORK. SAFE DIGGING PRACTICE SHOULD BE FOLLOWED.
- WHERE THERE IS ANY APPARENT CONFLICT BETWEEN THE DETAILS INDICATED ON THIS DRAWING AND THOSE INDICATED ON OTHER DRAWINGS, THEN TOWER SURVEYS AGE SHOULD BE INFORMED PRIOR TO CONSTRUCTION ON SITE.
- THE PLOTTING SCALE OF THIS DRAWING IS THE SAME ACCURACIES IMPLIED BY THE PLOTTING SCALE AND EQUALLY APPLICABLE TO ANY DATA SUPPLIED FOR USE.
- EVERY EFFORT IS MADE TO IDENTIFY ALL VISIBLE ABOVE GROUND FEATURES. HOWEVER, IT IS POSSIBLE THAT SOME MAY BE OBSCURED BY VEGETATION OR OTHER OBSTRUCTIONS.
- VISIBLE FEATURES IN THE VICINITY OF THE BOUNDARIES, IF SHOWN ON THIS SURVEY, MAY NOT REPRESENT THE EXTENT OF LEGALLY CONVEYED OWNERSHIP.
- ALL FEATURES SHOWN ON THIS DRAWING ARE SCHEMATIC SYMBOLS OR HATCHING ARE INDICATIVE ONLY. SUCH AS ROAD MARKINGS, HEDGE CENTRE LINES, BRICK OR HATCHING AND GLAZING DETAIL.

Topographic and CCTV Drainage Survey Data Added - Spalding Road	REV.	DATE	DRWN	CHKD	APPR
	A	25/11/22	DRN/LS	DRN/LS	JWH
DESCRIPTION					

DRAWING STATUS

INFORMATION

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Member - Land Utilities Surveying Safety
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www.towersurveys.co.uk

CLIENT

LINCOLNSHIRE COUNTY COUNCIL

PROJECT TITLE

WILLIAM STUKELEY C of E PRIMARY SCHOOL
SPALDING ROAD, HOLBEACH, PE12 7HG

DRAWING DETAIL

BURIED SERVICES & CCTV SURVEY AS OF 19/11/2021 (SHEET 1 OF 4)

DRAWN	DMDW	DATE	
PROJECT ENGINEER	JWH		NOVEMBER 2021
CHECKED	ILRL	SCALE	
APPROVED	JWH	1:250	(WHEN PLOTTED @ A0)

DRAWING NUMBER: TSA-21-1327/101
REVISION: A