

SURVEY ORIENTATION & LEVEL DATUM

Survey position and orientation is to Ordnance Survey National Grid, compiled using GNSS observations and Leica SmartNet RTK Network corrections.

Levels are related to Ordnance Datum, computed using GNSS observations and Leica SmartNet RTK Network corrections.

SURVEY CONTROL STATIONS

Station	Easting	Northing	Height
STN01	524714.208	194882.479	84.505
STN02	524702.258	194918.760	83.029
STN03	524644.200	194928.884	84.749
STN04	524689.050	194925.865	84.104
STN05	524698.421	194848.393	84.273
STN06	524717.845	194926.581	83.322
STN07	524700.710	194843.301	83.244
STN08	524581.414	194918.070	85.029
STN09	524618.887	194922.376	86.794
STN10	524644.912	194894.582	84.742
STN11	524659.050	194972.582	84.759
STN12	524584.506	194922.111	84.875
STN13	524688.068	194974.813	84.903
STN14	524642.750	194837.237	85.028
STN15	524628.856	194855.537	85.008
STN16	524691.794	194850.507	84.993
STN18	524671.434	194841.180	85.025
STN19	524680.427	194877.311	84.785
STN20	524734.582	194888.249	84.423
STN21	524733.773	194887.438	84.147

LEGEND

- Abbreviations**
- ASC Air Conditioning Unit
 - BOL Bolard
 - BP Brick Paving
 - BT British Telecom Cover
 - CATV Cable Television Cover
 - CB Control Box
 - CCTV CCTV Cover
 - CONC Concrete
 - CPSP Concrete Paving Slab
 - CPSP Concrete Paving Slab
 - FB Fire Hydrant
 - FB Fire Hydrant
 - G Gas Valve
 - GC Gas Valve
 - IC Inspection Chamber
 - IP Lamp Post
 - MH Manhole
 - SP Sign Post
 - TMAC Tarmac Surface
 - TP Telegraph Post
 - TPS Tactile Paving Slab
 - WV Water Valve
- Levels**
- CL Cover Level
 - ITL Invert Level
 - TFL Top of Fretted Level
 - THL Threshold Level
 - TWL Top of Wall Level

NOTES

Individual trees have only been surveyed around the school buildings. In all other locations edge of vegetation and/or tree canopies have been surveyed.

REVISION HISTORY

REV	DATE	BY	NOTES
A	15/11/2018	A	Trees amended



PROJECT NAME
The Totteridge Academy

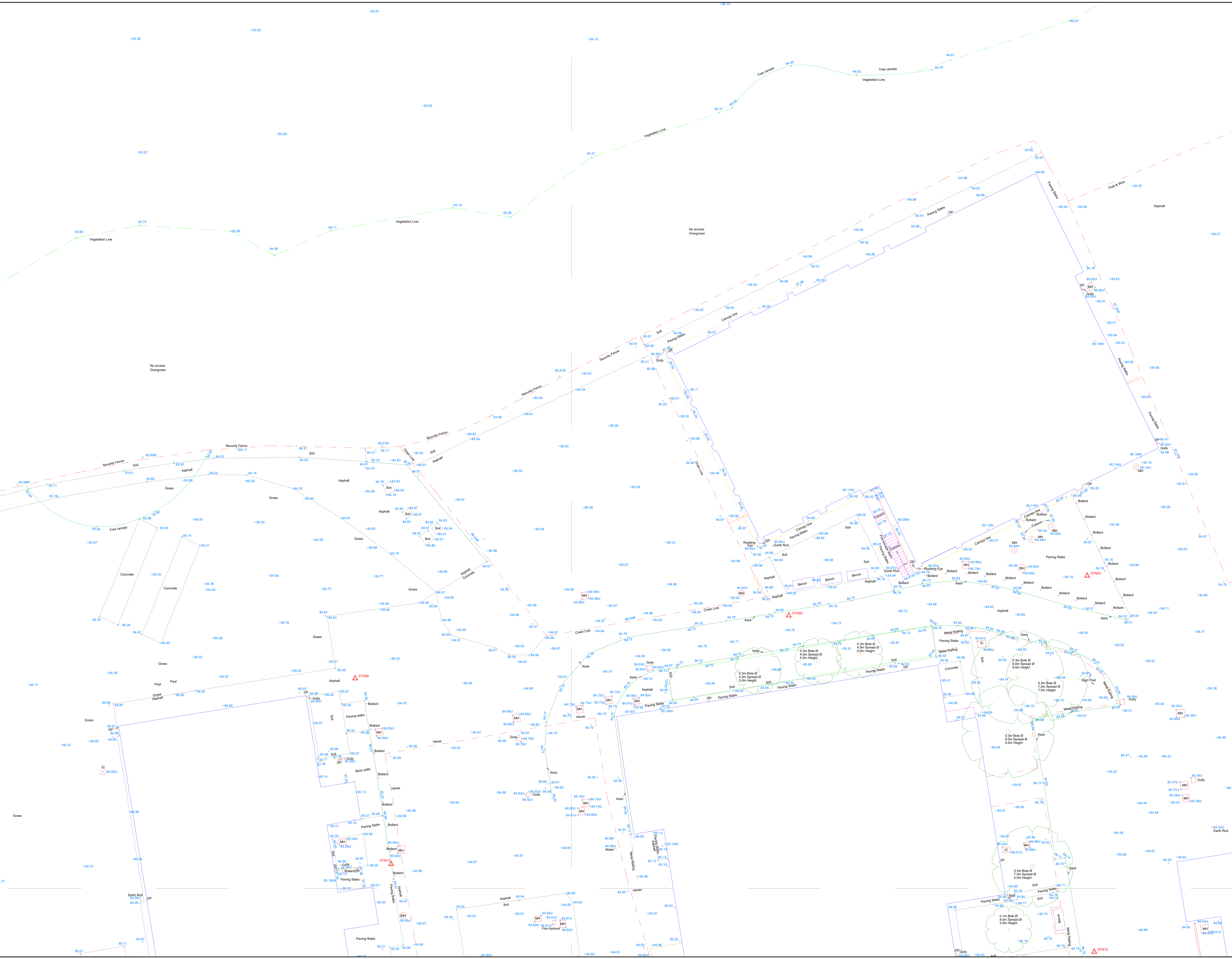
DRAWING TITLE
3D Topographic Survey
(Sheet 1 of 5)

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laser scanning | 3d modelling | bim | surveying | training

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SURVEYED	DRAWN	CHECKED	DATE	SCALE
GS	RB		Oct 2018	1:500 @ A0

JOB NO 2167 **DRAWING NO** BON-2167-001 **REVISION** A



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SURVEY CONTROL STATIONS

Station	Easting	Northing	Height
STN01	24712.500	184922.276	84.500
STN02	24710.258	184918.760	83.929
STN03	24644.300	184920.890	84.149
STN04	24689.005	184925.985	84.104
STN05	24699.001	184949.862	83.273
STN06	24737.045	184928.591	83.323
STN07	24691.115	184943.351	83.664
STN08	24681.414	184918.070	85.059
STN09	24616.667	184923.476	84.794
STN10	24684.912	184894.582	84.742
STN11	24699.000	184972.002	84.759
STN12	24684.506	184902.111	84.975
STN13	24688.668	184874.913	84.993
STN14	24642.750	184837.237	85.028
STN15	24626.865	184853.342	85.006
STN16	24691.704	184850.957	84.993
STN17	24719.209	184853.342	84.986
STN18	24671.494	184841.180	85.025
STN19	24690.457	184877.311	84.785
STN20	24734.862	184896.349	84.423
STN21	24773.773	184897.438	84.147

LEGEND

Abbreviations

- A/C Air Conditioning Unit
- BOL Bolt
- BP Brick Paving Cover
- BT British Telecom Cover
- CATV Cable Television Cover
- CB Control Box
- CCTV CCTV Cover
- CONC Concrete
- CPS Concrete Paving Slab
- CP Drain Pipe
- FB Flower Bed
- FH Fire Hydrant
- GV Gas Valve
- I/C Inspection Chamber
- LP Lamp Post
- MH Manhole
- GP Sign Post
- TS Tarmac Surface
- TP Telegraph Post
- TFS Tactile Paving Slab
- WV Water Valve

Levels

- CL Cover Level
- IL Invert Level
- TFL Top of Fence Level
- TML Threshold Level
- TWL Top of Wall Level

NOTES
 Individual trees have only been surveyed around the school buildings.

REVISION HISTORY

REV	DATE	BY	NOTES
A	15/11/2018	A	Trees amended

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PROJECT NAME
 The Totteridge Academy

DRAWING TITLE
 3D Topographic Survey
 (Sheet 2 of 5)

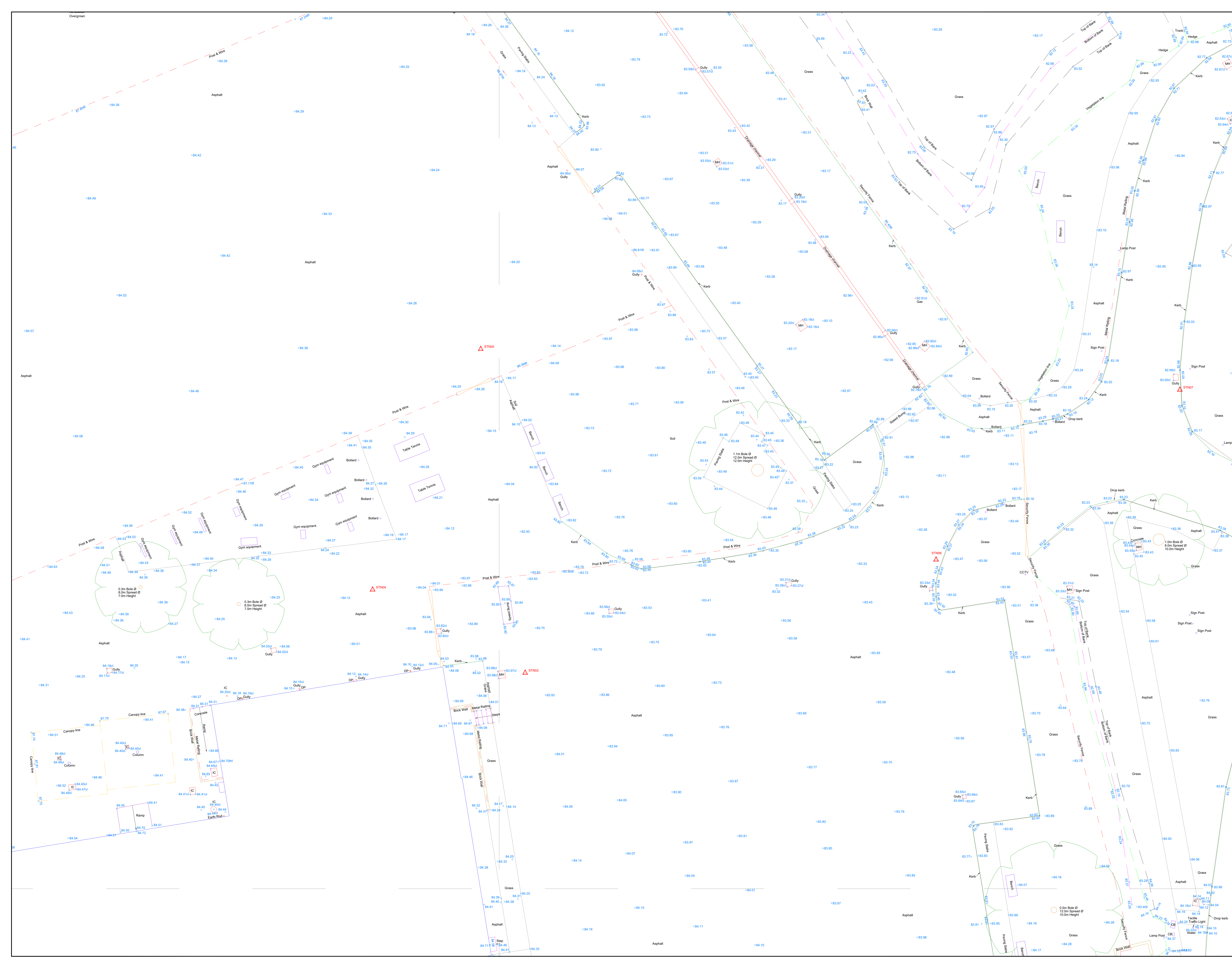
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 GS/RS/RS RB Oct 2018 1:100 @ A0

JOB NO 2167 **DRAWING NO** BON-2167-001 **REVISION** A



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SURVEY CONTROL STATIONS

Station	Easting	Northing	Height
STN01	52472.00	19492.00	84.50
STN02	52472.25	19491.75	83.99
STN03	52484.00	19492.00	84.19
STN04	52489.00	19492.00	84.10
STN05	52499.00	19492.00	83.93
STN06	52473.00	19492.00	83.33
STN07	52499.00	19492.00	84.19
STN08	52481.00	19491.75	85.09
STN09	52489.00	19492.00	84.19
STN10	52484.00	19492.00	84.74
STN11	52489.00	19492.00	84.19
STN12	52484.00	19492.00	84.74
STN13	52489.00	19492.00	84.19
STN14	52484.00	19492.00	84.74
STN15	52489.00	19492.00	84.19
STN16	52499.00	19492.00	83.93
STN17	52499.00	19492.00	84.19
STN18	52481.00	19491.75	85.09
STN19	52489.00	19492.00	84.19
STN20	52473.00	19492.00	83.33
STN21	52473.00	19492.00	83.33

LEGEND

Abbreviations

- A/C Air Conditioning Unit
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- BT British Telecom Cover
- CATV Cable Television Cover
- CB Control Box
- CCTV CCTV Cover
- CON Concrete
- CP Concrete Paving Slab
- DP Drain Pipe
- FB Flower Bed
- FI Fire Hydrant
- G Gully
- GV Gully Valve
- IC Inspection Chamber
- IP Lamp Post
- IP Manhole
- IP Sign Post
- IP Tarmac Surface
- IP Telegraph Post
- IP Tactile Paving Slab
- IP Water Valve

Levels

- CL Cover Level
- IL Invert Level
- TFL Top of Fence Level
- TLL Threshold Level
- TWL Top of Wall Level

NOTES

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REVISION HISTORY

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A	15/11/2018	A	Trees amended



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DRAWING TITLE
3D Topographic Survey
(Sheet 3 of 5)

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laser scanning | 3d modelling | 3m | surveying | training

Address: Redfern House, 105 Ashley Road, Herts, AL1 2DE

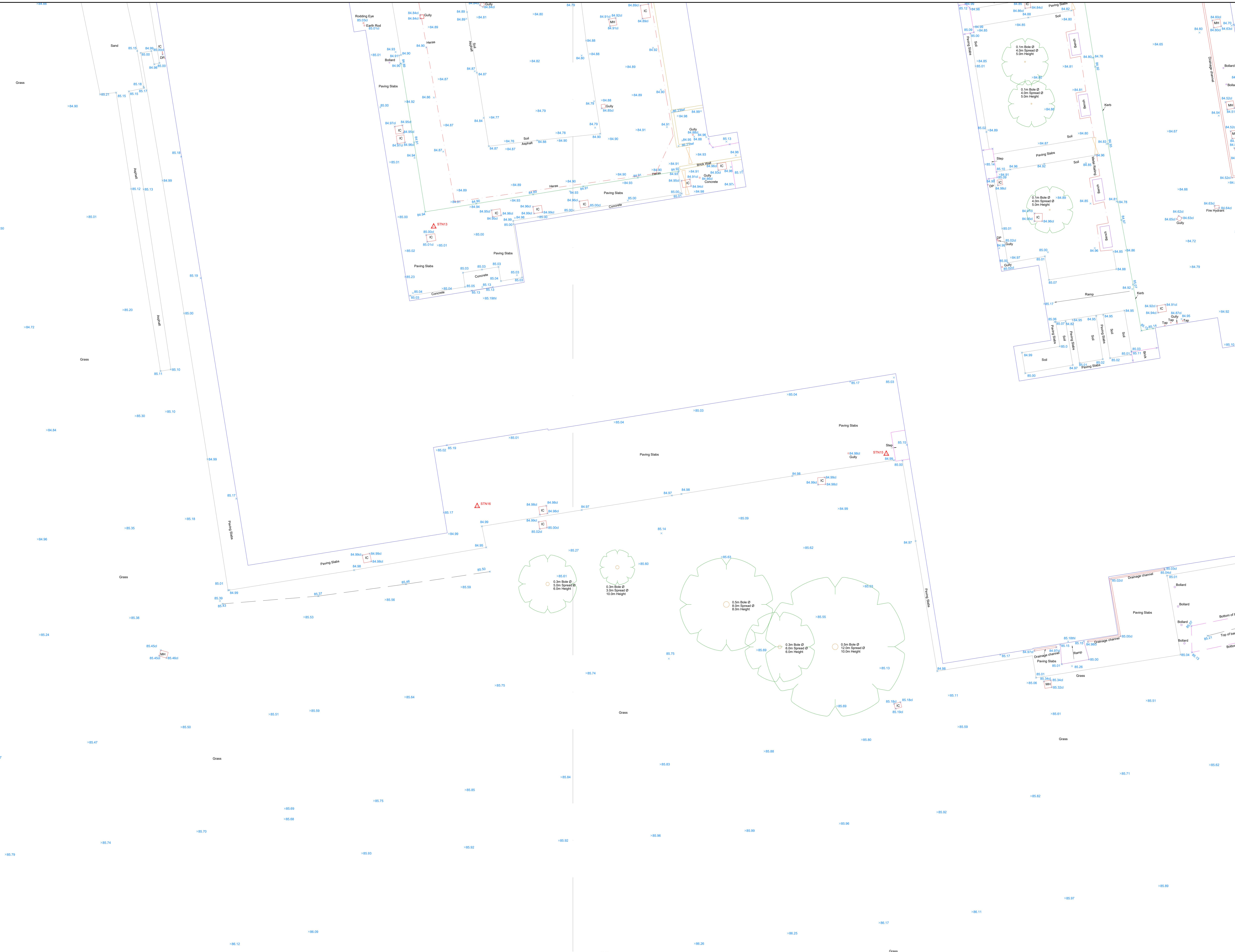
Telephone: 01727 228221

Email: info@bonningtonsurveys.co.uk

Website: www.bonningtonsurveys.co.uk

SURVEYED	DRAWN	CHECKED	DATE	SCALE
GS	RB	RB	Oct 2018	1:100 @ A0

JOB NO: 2167 DRAWING NO: BON-2167-001 REVISION: A



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SURVEY CONTROL STATIONS

Station	Easting	Northing	Height
STN01	524712.258	194918.760	83.929
STN02	524688.005	194925.985	84.104
STN03	524737.045	194928.591	83.323
STN04	524681.414	194918.070	85.059
STN05	524681.414	194918.070	84.794
STN06	524681.414	194918.070	85.059
STN07	524681.414	194918.070	84.794
STN08	524681.414	194918.070	85.059
STN09	524681.414	194918.070	84.794
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STN11	524681.414	194918.070	84.794
STN12	524681.414	194918.070	85.059
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STN14	524681.414	194918.070	85.059
STN15	524681.414	194918.070	84.794
STN16	524681.414	194918.070	85.059
STN17	524681.414	194918.070	84.794
STN18	524681.414	194918.070	85.059
STN19	524681.414	194918.070	84.794
STN20	524681.414	194918.070	85.059
STN21	524681.414	194918.070	84.794
STN22	524681.414	194918.070	85.059

LEGEND

Abbreviations

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BOLL	Bollard
BP	Brick Paving
BT	British Telecom Cover
CATV	Cable Television Cover
CB	Control Box
CCTV	CCTV Cover
CONC	Concrete
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FB	Flower Bed
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IP	Lamp Post
IP	Manhole
IP	Sign Post
IP	Tarmac Surface
IP	Telegraph Post
IP	Tactile Paving Slab
IP	Water Valve

Levels

CL	Cover Level
IL	Invert Level
TFL	Top of Fence Level
TLL	Threshold Level
TWL	Top of Wall Level

NOTES
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A	15/11/2018	A	Trees amended



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3D Topographic Survey
(Sheet 4 of 5)

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Address: Redfern House, 105 Ashley Road, 91 Ashmole, Herts, AL1 2DE

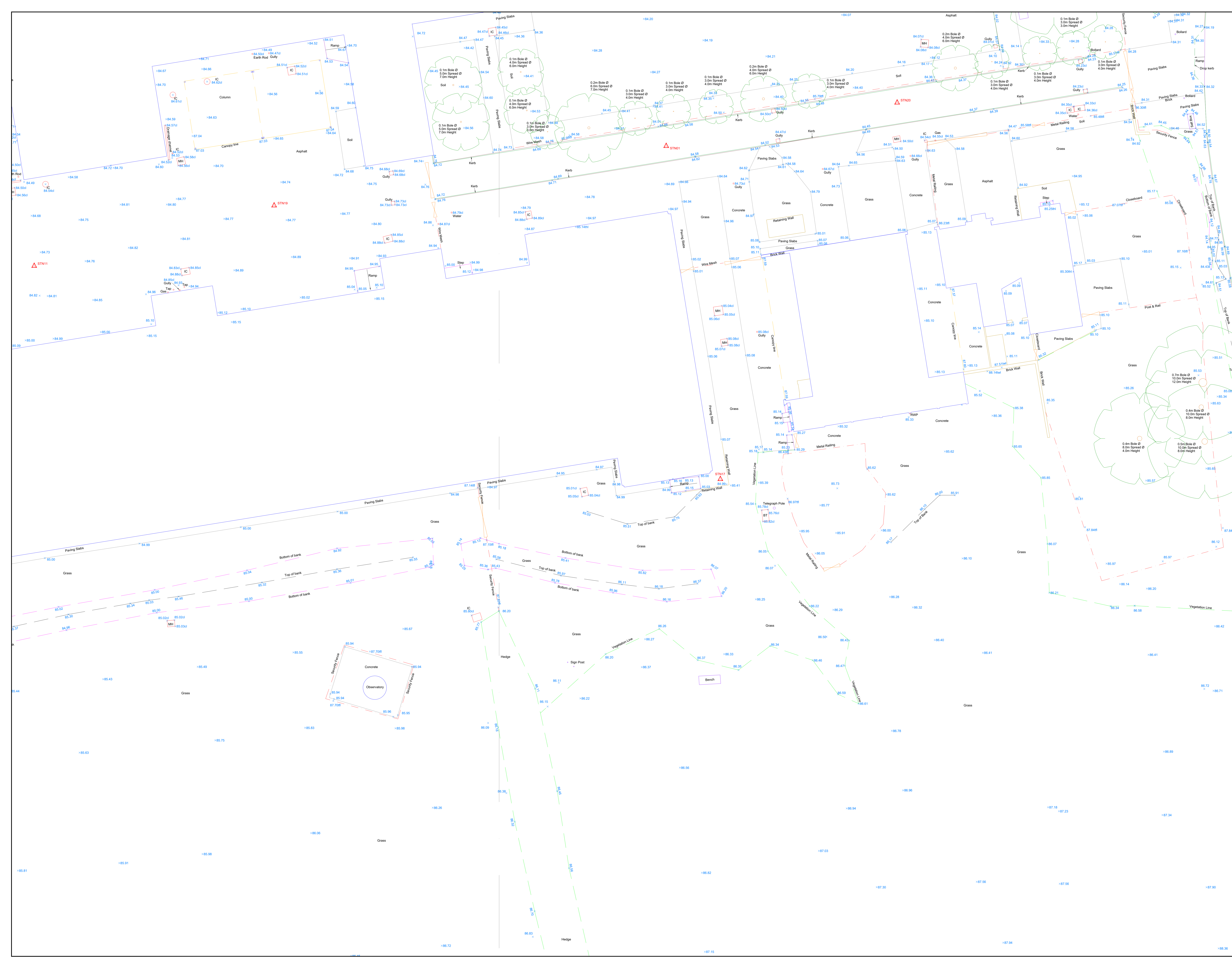
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SURVEYED	DRAWN	CHECKED	DATE	SCALE
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STN02	52472.258	18451.765	83.929
STN03	52468.005	18452.885	84.149
STN04	52468.005	18452.885	84.104
STN05	52469.115	18452.885	84.273
STN06	52473.545	18452.591	83.323
STN07	52469.115	18452.885	83.564
STN08	52461.414	18451.870	85.059
STN09	52461.607	18452.476	84.794
STN10	52464.912	18454.562	84.742
STN11	52462.020	18452.202	84.756
STN12	52464.506	18492.111	84.975
STN13	52462.668	18463.913	84.993
STN14	52462.750	18463.237	85.028
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LP	Lamp Post
MM	Manhole
SP	Sign Post
T/M	Tarmac Surface
TP	Telegraph Pole
T/P	Tactile Paving Slab
WV	Water Valve

Levels

CL	Cover Level
InvL	Invert Level
TFL	Top of Fence Level
TSL	Threshold Level
TWL	Top of Wall Level

NOTES

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REVISION HISTORY

REV.	DATE	BY	NOTES
A	15/11/2018	A	Trees amended

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DRAWING TITLE

3D Topographic Survey
(Sheet 5 of 5)

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