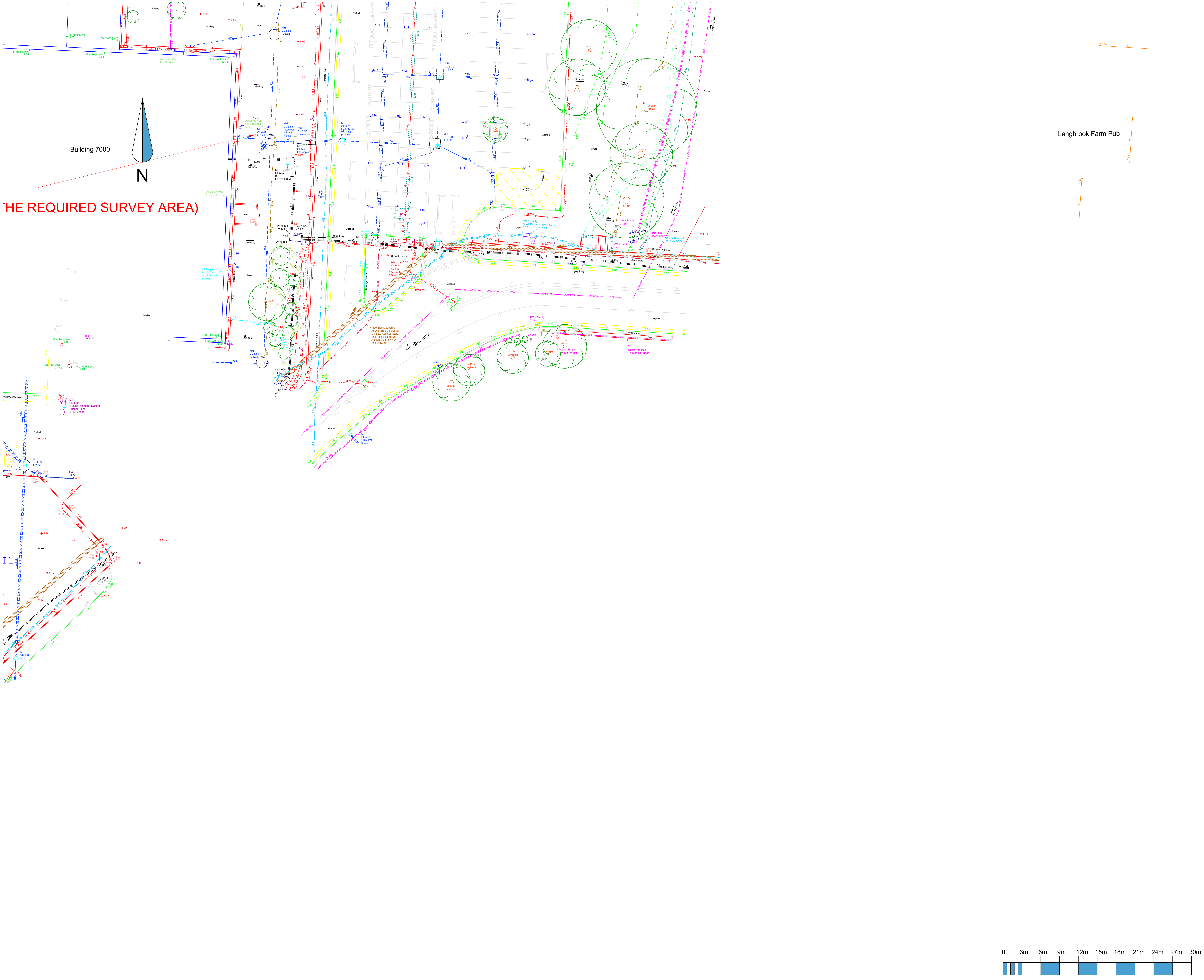

Notes :

Station	Easting	Northing	Level
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C	471223.321	105623.543	4.507
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ON DETAIL SURVEY

AB	Air Brick	EP	Electricity Pole	RS	Road Sign
AC	Asbestos Cement	ER	Earth Rod	RWP	Rain Water Pipe
ACU	Air Conditioning Unit	FL	Floor Level	S	Stump
AD	Assumed Direction	FH	Fire Hydrant	SA	Survey Abandoned
AL	Air Line	FB	Flower Bed	S/A	Soakaway
AR	Assumed Route	FS	Flag Staff	SC	Stop Cock
ASP	Artificial Stone Paving	G	Gully	SI	Spun Iron
		GV	Gas Valve	SL	Soffit Level
AT	Air Tower	IC	Inspection Cover	SP	Sign Post
AV	Air Valve	IL	Invert Level	Spr	Spring
BB	Belisha Beacon	JB	Junction Box	S/R	Steel Railings
BD	Back Drop	KO	Kerb Outlet	SS	Structure Support
BdL	Bed Level	LB	Letter Box	ST	Stop Tap
BH	Borehole	LI	Light	Stn	Survey Station
Bk	Brick	LH	Lamp Hole	SV	Sluice Valve
BL	Basement Light	MB	Mooring Bollard	SVP	Soil Vent Pipe
BOL	Bollard	MH	Manhole Cover	Tac	Tactile Paving
BR	Brick	Mkr	Marker Post	TBM	Temporary Bench Mark
BS	Bus Stop	MP	Mile Post/Stone	TC	Telecom Cover
BT	British Telecom Cover	NFI	No Further Information	TCB	Telephone Call Box
BTB	British Telecom Box			TOV	Top Of Vegetation
CAB	Cabinet	NM	Node Marker	TH	Trial Hole / Pit
Cam	Camera	NP	Name Plate	THL	Threshold Level
CAT	Catenary Level	NPV	No Pipes Visible	Tk	Tank
CC	Control Cabinet	O/H	Overhead	T/F	Top Of Fence
CH	Chainage	OSA	Off Survey Area	T/W	Top Of Wall
ChL	Channel Level	PO	Post	TP	Telegraph Pole
CI	Cast Iron	PB	Post Box	TS	Traffic Signals
CL	Cover Level	PBM	Permanent Bench Mark	UTGA	Unable to Gain Access
Co	Concrete	PE	Polyethylene	UTL	Unable to Lift
CP	Catch Pit	PGM	Permanent Ground Marker	UTS	Unable to Survey
CPS	Conc Paving Slabs			VC	Vitrified Clay
CTV	Cable TV	PLA	Plastic	VDP	Vehicle Detector Pads
CUL	Culvert	PM	Parking Meter	VP	Vent Pipe
D	Depth (deep)	PU	Pump	VR	Vapour Recovery
DI	Ductile Iron	PVC	Polyvinylchloride	VTP	Vertical Pipe
dil	Dilapidated	PZ	Piezometer	WL	Water Level
dis	Disused	RE	Rodding Eye	WM	Water Meter
D/S	Downstream	Ri	Riser	WO	Water Wash Out
EB	Electricity Box	RFL	Roof Level	WS	Window Sample
EC	Electricity Cover	RP	Reflector Post	WV	Water Valve

ON FENCES/WALLS/DIVISIONS

B/W	Barbed Wire Fence	P/R	Post and Rail Fence
CrB	Crash Barrier	P/W	Post and Wire Fence
C/B	Close Boarded Fence	S/F	Safety Fence
C/I	Corrugated Iron Fence	S/R	Steel Railings
C/L	Chain Link Fence	W/M	Wire Mesh Fence
E/F	Electric Fence	BW	Brick Wall
FPB	Panel / Board Fence	CW	Concrete Wall
H/R	Hand Rail	DSW	Dry Stone Wall
I/R	Iron Rail Fence	R/W	Retaining Wall
P/L	Palisade Fence	SW	Stone Wall

ON BUILDINGS

ASB	Asbestos	RL	Ridge Level
AV	Air Vent	RWC	Rain Channel
CL	Cill Level	RWP	Rain Water Pipe
CH	Ceiling Height	SA	Spring Of Arch
CHM	Chimney Stack Height	SCH	Suspended Ceiling Height
DH	Door Head	SD	Sliding Door
DP	Down Pipe	SOIL	Soil Pipe
EL	Eave Level	SVP	Sewer Vent Pipe
F	Frame Height	THL	Threshold Level
FD	Folding Door	USB	Underside Of Beam
GRL	Glazed Roof Light	WH	Water Heater
HL	Head Level	WP	Waste Pipe
PART	Partitioning	WST	Water Storage Tank
PL	Parapet Level		

KEY FOR UNDERGROUND SERVICES

Foul/Combined water drain	— — — ► — — —
Foul/Combined drain 300Ø and above	▨
Surface water drain	- - - - ► - - - -
Surface water drain 300Ø and above	▨
End of trace	——) EOT
Electric cables	— E — E — E — E — E —
HV cables	— HV — HV — HV — HV — HV —
Gas	— GAS — GAS — GAS — GAS — GAS —
Water	— W — W — W — W — W — W —
Telephone	— BT — BT — BT — BT — BT —
Catv	— CATV — CATV — CATV — CATV —
CCTV	— CCTV — CCTV — CCTV — CCTV — CCTV —
Comms	— COM — COM — COM — COM — COM —
Fibre Optics	— FO — FO — FO — FO — FO —
Pipe	— PIPE — PIPE — PIPE — PIPE —
Vents	— V — V — V — V — V — V —
Fuel	— F — F — F — F — F — F —
Offsets	— O — O — O — O — O — O —
Vapour Recovery	— VR — VR — VR — VR — VR —
Gauge Lines	— G — G — G — G — G —
Unidentified GPR	— U-GPR — U-GPR — U-GPR — U-GPR —
Unidentified EML	— U-EML — U-EML — U-EML — U-EML —
Taken From Records	— E-TFR — E-TFR — E-TFR — E-TFR —
Assumed Routes	— GAS-AR — GAS-AR — GAS-AR — GAS-AR —
Empty Ducts	— ED — ED — ED — ED — ED —
Earth Rod	— ER — ER — ER — ER — ER —
Rising Main	— RM — RM — RM — RM — RM —
Overhead	— O/H — O/H — O/H — O/H — O/H —
Heating Pipes	— HP — HP — HP — HP — HP —
Traffic Signals	— TS — TS — TS — TS — TS —

Where chamber extents are significantly greater than the cover size, their approximate extents are shown thus;

ABBREVIATION KEY

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BD	base bend
BD	backdrop
CP	cable pit
CL	cover level
CR	cable riser
DP	down pipe
EOT	end of trace
EP	electricity pole
FH	fire hydrant
G	gully
GV	gas valve
HOR	head of run
HL	high level
IC	inspection chamber
IL	invert level
MH	manhole
PR	pipe riser
RE	rodding eye
RWP	rainwater pipe
SV	stop valve
SVP	soil vent pipe
TE	trapped exit
TFR	taken from records
TP	telegraph pole
UTF	unable to find
UTL	unable to lift
UTS	unable to survey
UTT	unable to trace
VP	vent pipe
WL	water level
WM	water meter
WO	wash out valve

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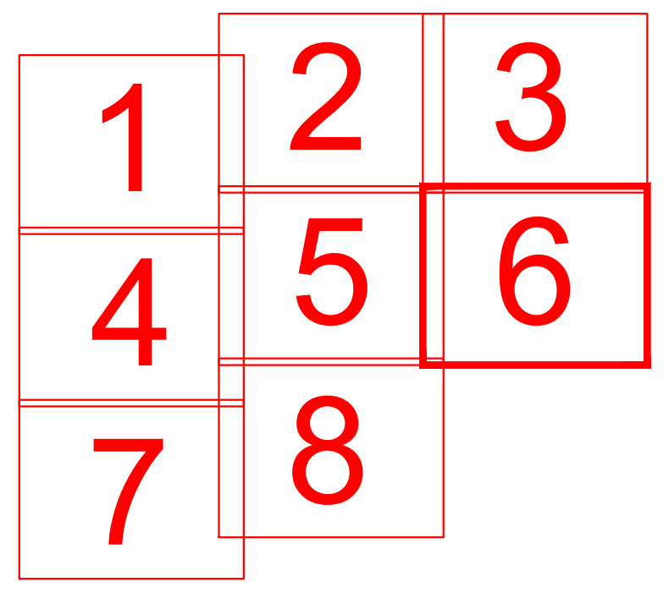

Rev:	Comments	By	Chkd	Date

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Surveying & BIM
www.surveybase.co.uk

Bath: 01225 314370 - London: 02039 066892

Langstone Technology Park,
Langstone Road, Havant, PO9 1SA

File Name:
Db4207-USP

Drawing Title :
Utilities Survey Of Langstone Technology Park
Sheet (6 of 8 A0)

Client:
AWW

Date
26/04/2019

Scale
A0 @ 1:200

Drawn by:	Checked by:	Project Code:	Revision:
db - AS	db - RI	Db4207-USP	---

Grid Orientation:
North GPS

Site Level Datum
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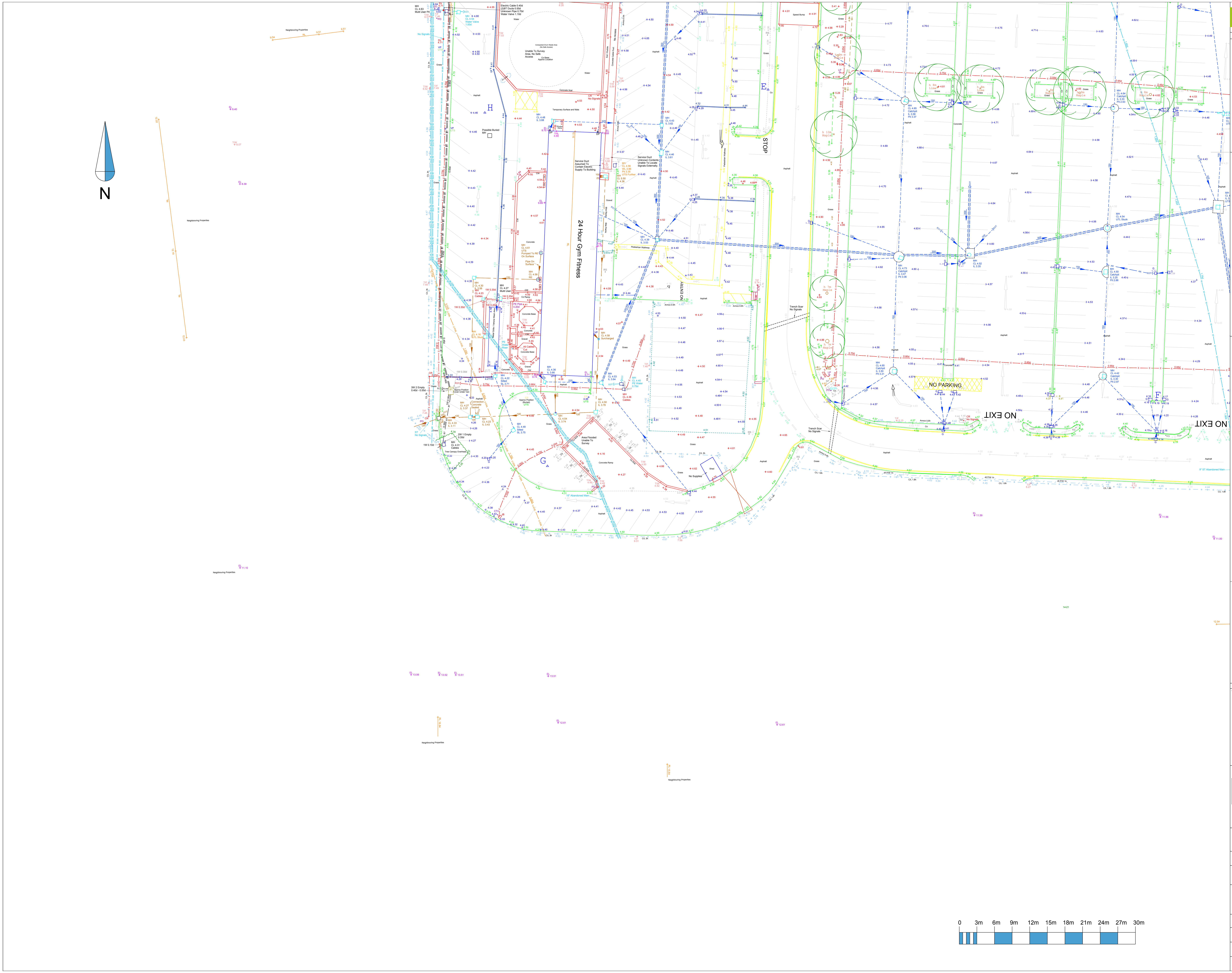

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ON DETAIL SURVEY

AB	Air Brick
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AD	Assumed Direction
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AR	Assumed Route
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BB	Belisha Beacon
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BH	Borehole
Bk	Brick
BL	Basement Light
BOL	Bollard
BR	Brick
BS	Bus Stop
BT	British Telecom Cover
BTB	British Telecom Box
CAB	Cabinet
Cam	Camera
CAT	Catenary Level
CC	Control Cabinet
CH	Chainage
ChL	Channel Level
CI	Cast Iron
CL	Cover Level
Co	Concrete
CP	Catch Pit
CPS	Conc Paving Slabs
CTV	Cable TV
CUL	Culvert
D	Depth (deep)
DI	Ductile Iron
dil	Dilapidated
dis	Disused
D/S	Downstream
EB	Electricity Box
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MP	Mile Post/Stone
NFI	No Further Information
NM	Node Marker
NP	Name Plate
NPV	No Pipes Visible
O/H	Overhead
OSA	Off Survey Area
PO	Post
PB	Post Box
PBM	Permanent Bench Mark
PE	Polyethylene
PGM	Permanent Ground Marker
PLA	Plastic
PM	Parking Meter
PU	Pump
PVC	Polyvinylchloride
PZ	Piezometer
RE	Rodding Eye
Ri	Riser
RFL	Roof Level
RP	Reflector Post

RS	Road Sign
RWP	Rain Water Pipe
S	Stump
SA	Survey Abandoned
S/A	Soakaway
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VDP	Vehicle Detector Pads
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VTP	Vertical Pipe
WL	Water Level
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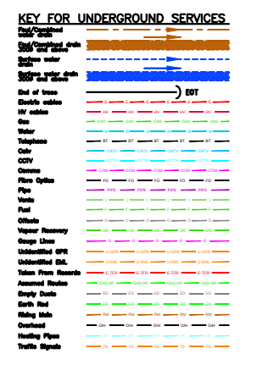

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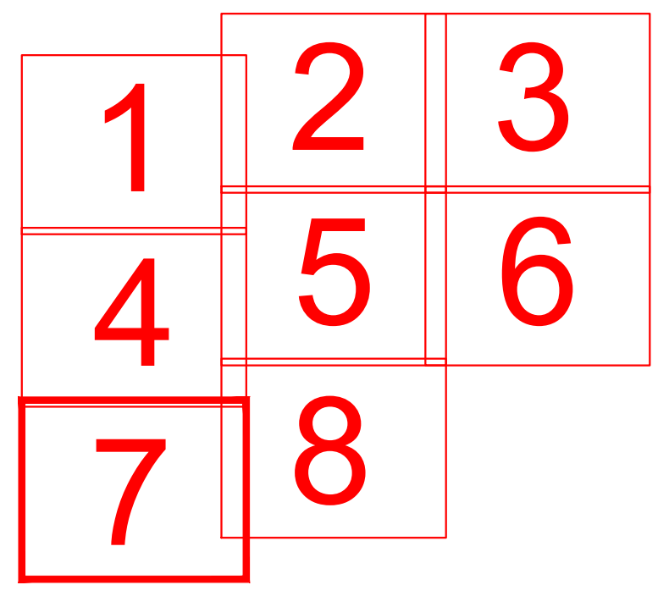
UTILITY SURVEY NOTES



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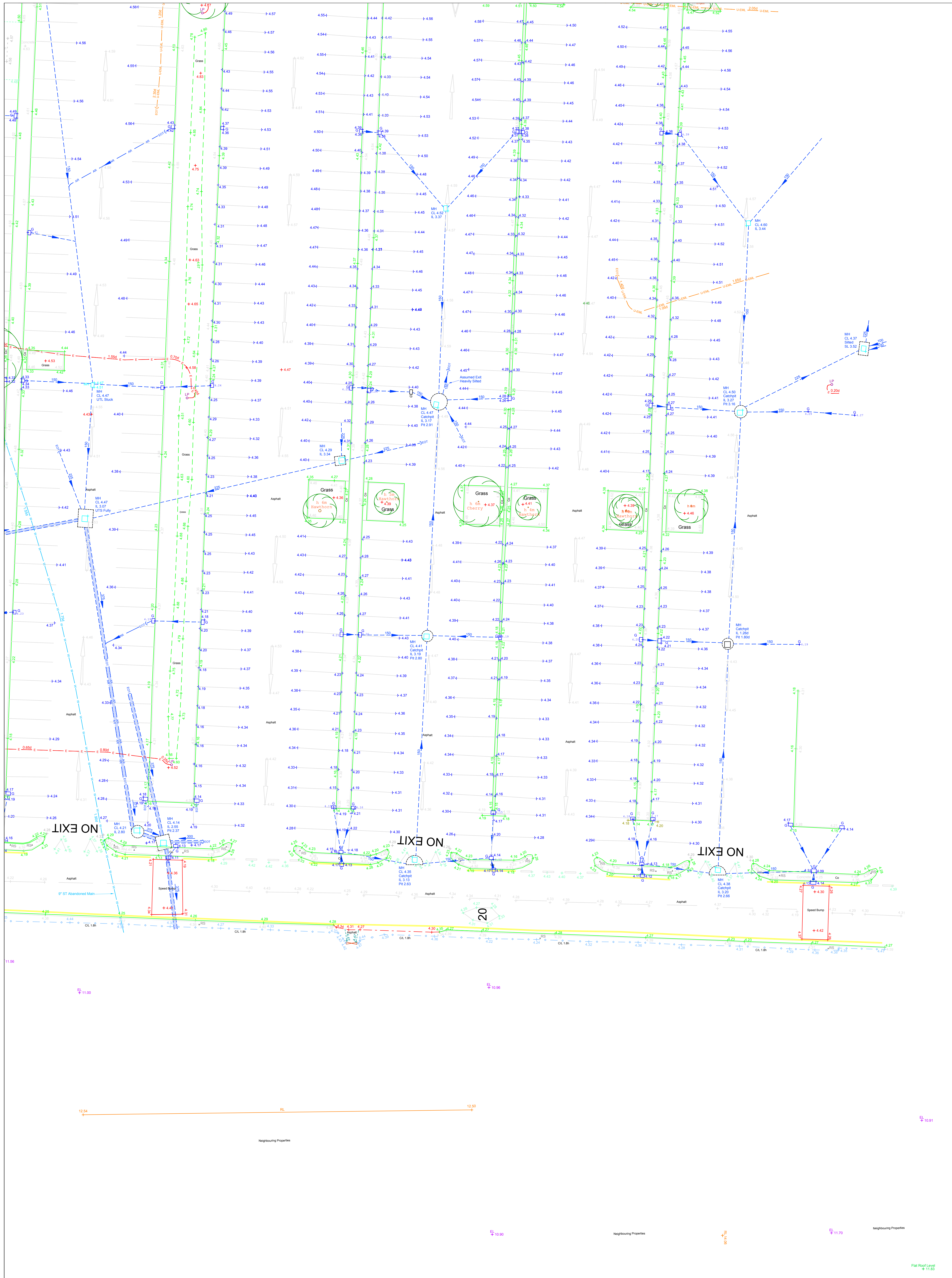

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Water	W
Telephone	BT
Catv	CATV
CCTV	CCTV
Comms	COM
Fibre Optics	FO
Pipe	PIPE
Vents	V
Fuel	F
Offsets	O
Vapour Recovery	VR
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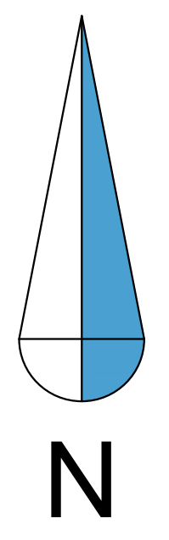

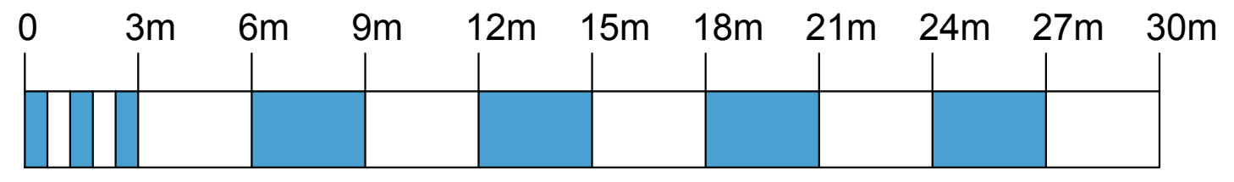

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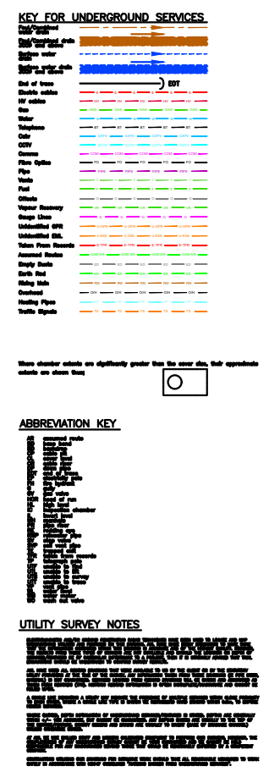
BS	Bus Stop
BT	British Telecom Cover
BTB	British Telecom Box
CAB	Cabinet
Cam	Camera
CAT	Catenary Level
CC	Control Cabinet
CH	Chainage
ChL	Channel Level
CI	Cast Iron
CL	Cover Level
Co	Concrete
CP	Catch Pit
CPS	Conc Paving Slabs
CTV	Cable TV
CUL	Culvert
D	Depth (deep)
DI	Ductile Iron
dil	Dilapidated
dis	Disused
D/S	Downstream
EB	Electricity Box
EC	Electricity Cover
EP	Electricity Pole
ER	Earth Rod
FL	Floor Level
FH	Fire Hydrant
FB	Flower Bed
FS	Flag Staff
G	Gully
GV	Gas Valve
IC	Inspection Cover
IL	Invert Level
JB	Junction Box
KO	Kerb Outlet
LB	Letter Box
LI	Light
LH	Lamp Hole
MB	Mooring Bollard
MH	Manhole Cover
Mkr	Marker Post
MP	Mile Post/Stone
NFI	No Further Information
NM	Node Marker
NP	Name Plate
NPV	No Pipes Visible
O/H	Overhead
OSA	Off Survey Area
PO	Post
PB	Post Box
PBM	Permanent Bench Mark
PE	Polyethylene
PGM	Permanent Ground Marker
PLA	Plastic
PM	Parking Meter
PU	Pump
PVC	Polyvinylchloride
PZ	Piezometer
RE	Rodding Eye
Ri	Riser
RFL	Roof Level
RP	Reflector Post
RS	Road Sign
RWP	Rain Water Pipe
S	Stump
SA	Survey Abandoned
S/A	Soakaway
SC	Stop Cock
SI	Spun Iron
SL	Soffit Level
SP	Sign Post
Spr	Spring
S/R	Steel Railings
SS	Structure Support
ST	Stop Tap
Stn	Survey Station
SV	Sluice Valve
SVP	Soil Vent Pipe
Tac	Tactile Paving
TBM	Temporary Bench Mark
TC	Telecom Cover
TCB	Telephone Call Box
TOV	Top Of Vegetation
TH	Trial Hole / Pit
THL	Threshold Level
Tk	Tank
T/F	Top Of Fence
T/W	Top Of Wall
TP	Telegraph Pole
TS	Traffic Signals
UTGA	Unable to Gain Access
UTL	Unable to Lift
UTS	Unable to Survey
VC	Vitrified Clay
VDP	Vehicle Detector Pads
VP	Vent Pipe
VR	Vapour Recovery
VTP	Vertical Pipe
WL	Water Level
WM	Water Meter
WO	Water Wash Out
WS	Window Sample
WV	Water Valve

ON FENCES/WALLS/DIVISIONS

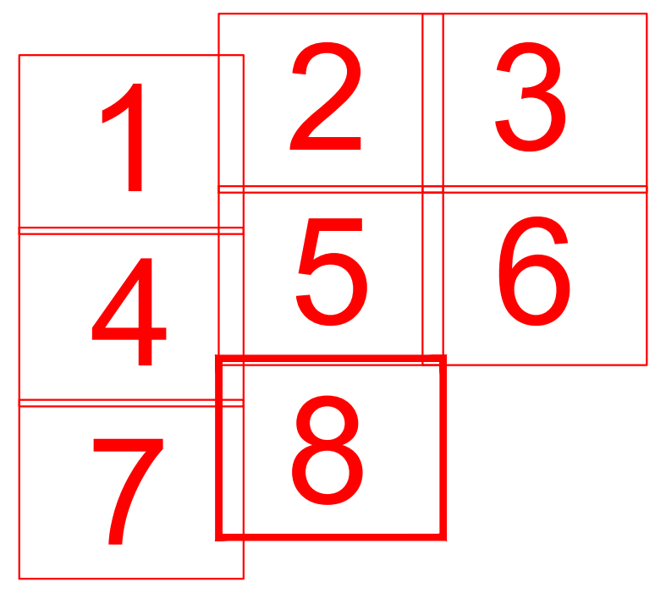
B/W	Barbed Wire Fence
CrB	Crash Barrier
C/B	Close Boarded Fence
C/I	Corrugated Iron Fence
C/L	Chain Link Fence
E/F	Electric Fence
FPB	Panel / Board Fence
H/R	Hand Rail
I/R	Iron Rail Fence
P/L	Palisade Fence
P/R	Post and Rail Fence
P/W	Post and Wire Fence
S/F	Safety Fence
S/R	Steel Railings
W/M	Wire Mesh Fence
BW	Brick Wall
CW	Concrete Wall
DSW	Dry Stone Wall
R/W	Retaining Wall
SW	Stone Wall

ON BUILDINGS

ASB	Asbestos
AV	Air Vent
CL	Cill Level
CH	Ceiling Height
CHM	Chimney Stack Height
DH	Door Head
DP	Down Pipe
EL	Eave Level
F	Frame Height
FD	Folding Door
GRL	Glazed Roof Light
HL	Head Level
PART	Partitioning
PL	Parapet Level
RL	Ridge Level
RWC	Rain Channel
RWP	Rain Water Pipe
SA	Spring Of Arch
SCH	Suspended Ceiling Height
SD	Sliding Door
SOIL	Soil Pipe
SVP	Sewer Vent Pipe
THL	Threshold Level
USB	Underside Of Beam
WH	Water Heater
WP	Waste Pipe
WST	Water Storage Tank



KEY FOR UNDERGROUND SERVICES



Rev:	Comments	By	Chkd	Date
-	-	-	-	-

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Langstone Technology Park,
Langstone Road, Havant, PO9 1SA

File Name:
Db4207-USP

Drawing Title :
Utilities Survey Of Langstone Technology Park
Sheet (8 of 8 A0)

Client:
AWW

Date
26/04/2019

Scale
A0 @ 1:200

Drawn by:	Checked by:	Project Code:	Revision:
db - AS	db - RI	Db4207-USP	---

Grid Orientation:
North GPS

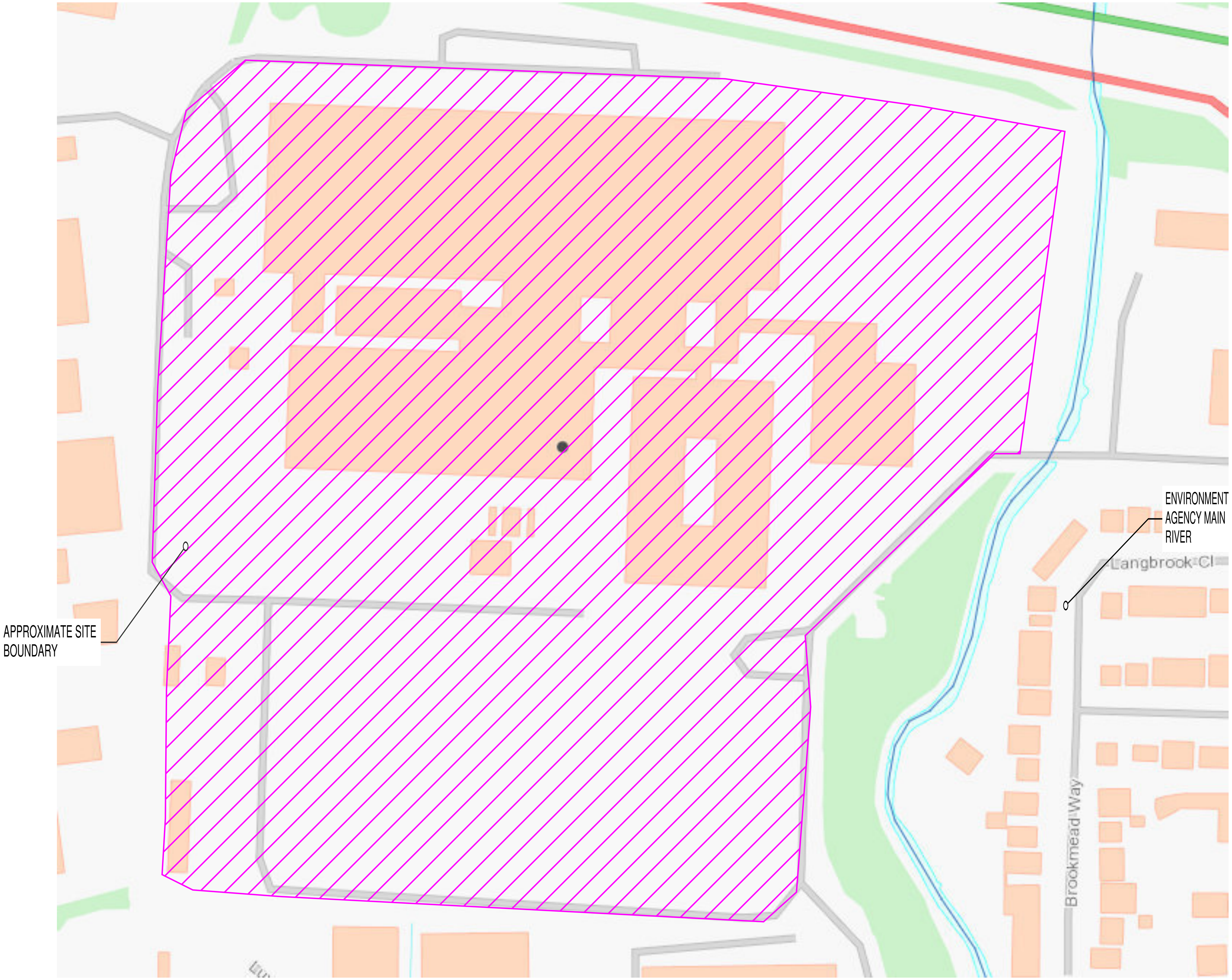
Site Level Datum
OS GPS

All dimensions are to be checked on site where applicable.This drawing must not be scaled, and only written dimensions should be respected.

Tree species and sizes on this drawing are not guaranteed, and if critical should be verified by an arboriculturist. Tree spreads are average about the bole, and heights are approximate at the time of the survey.

APPENDIX C

Existing Drainage



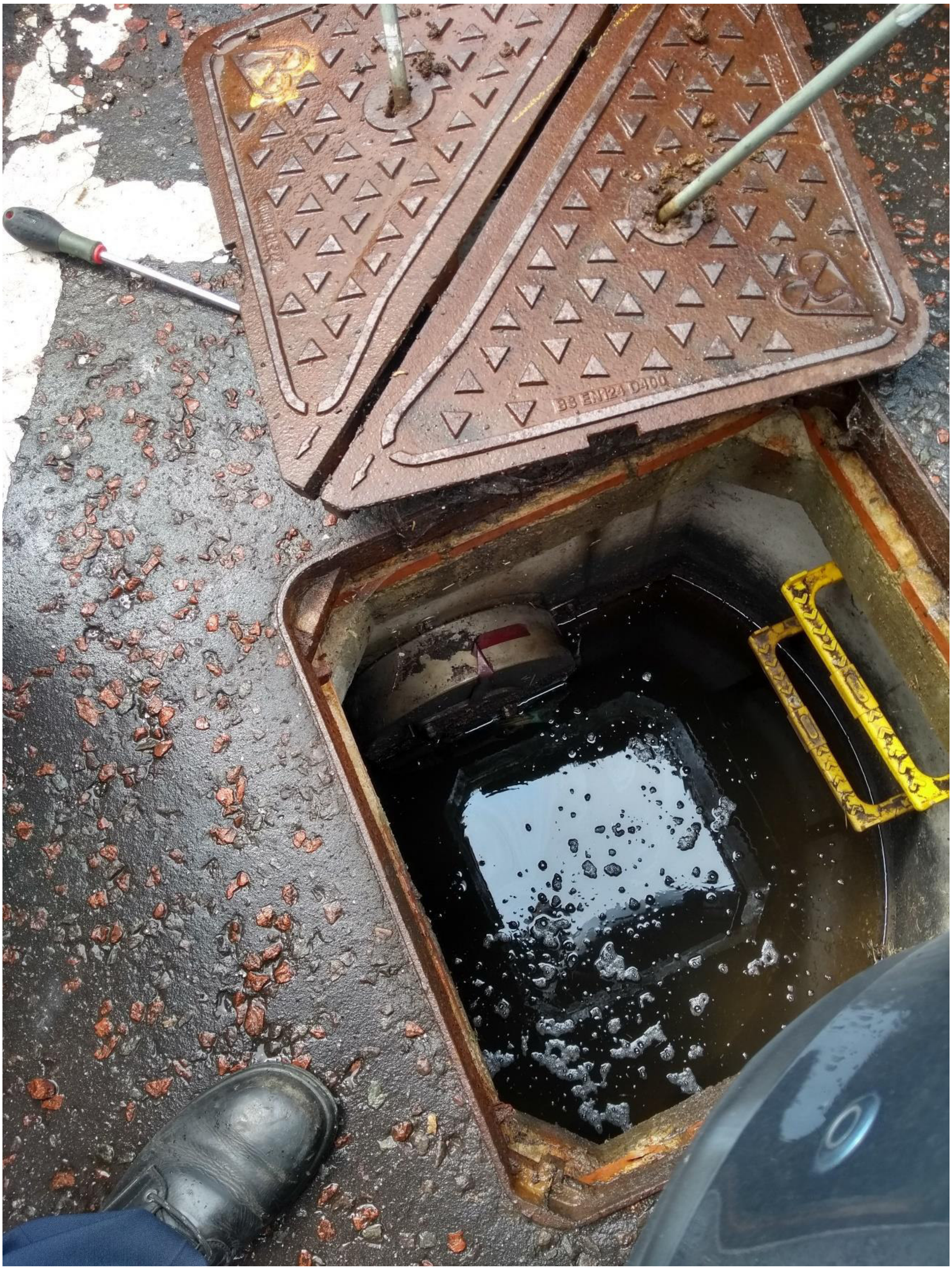
SOURCE: ENVIRONMENT AGENCY MAIN RIVER MAP

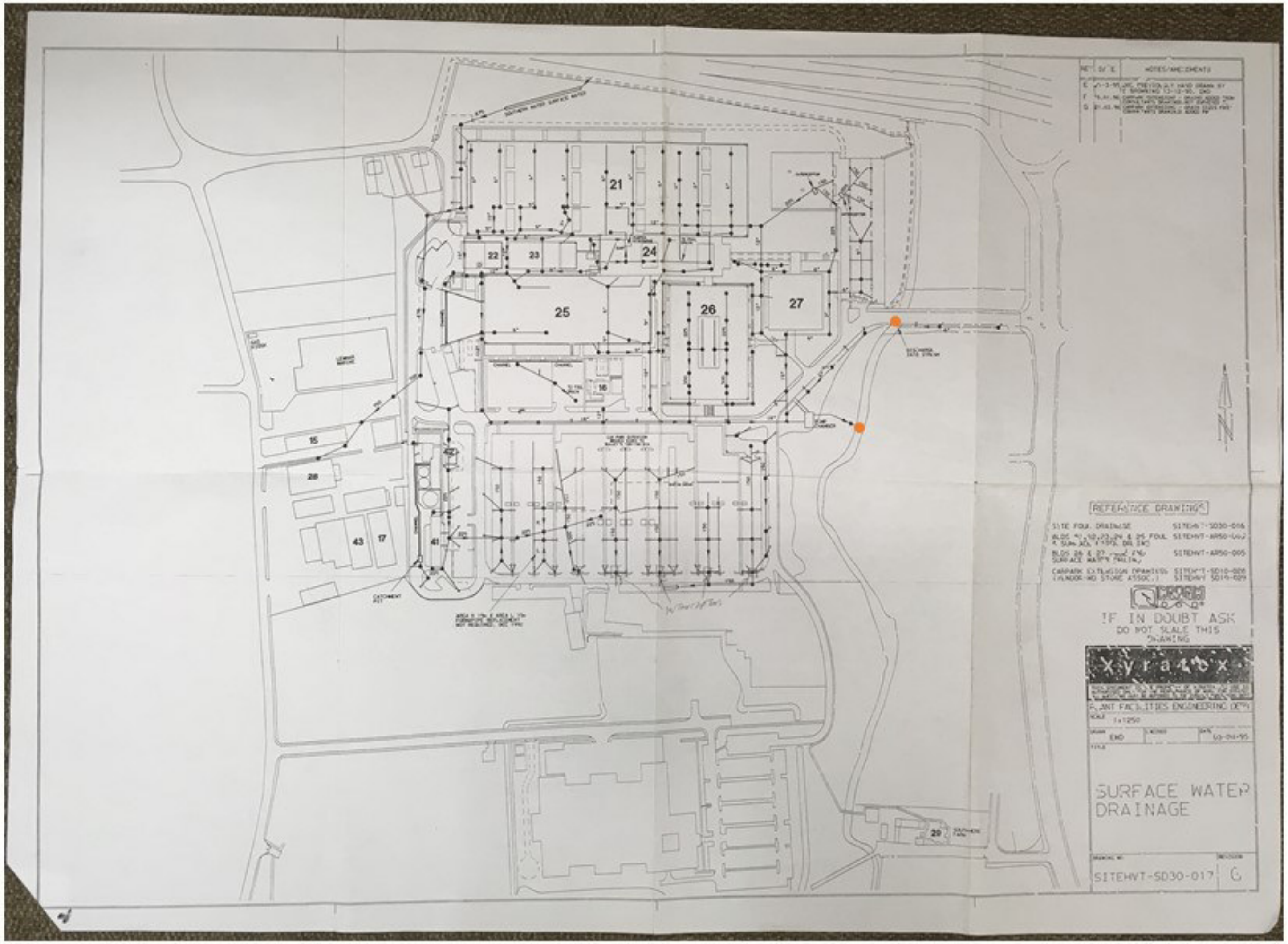
clancy consulting
Over 40 years in business

JOB NUMBER : 8/1982
DRAWING NUMBER : SK003
TITLE : EA MAIN RIVER LOCATION
DRAWN BY : CH
DATE : JUNE 2019
REVISION P01

Flow control currently on site in north car park.

The following photos were taken after the CCTV survey was undertaken to identify the previously unknown flow control devices. The restriction on the flow is currently unknown and will be required to be established in detailed design for full hydraulic modelling.


BS EN124 D400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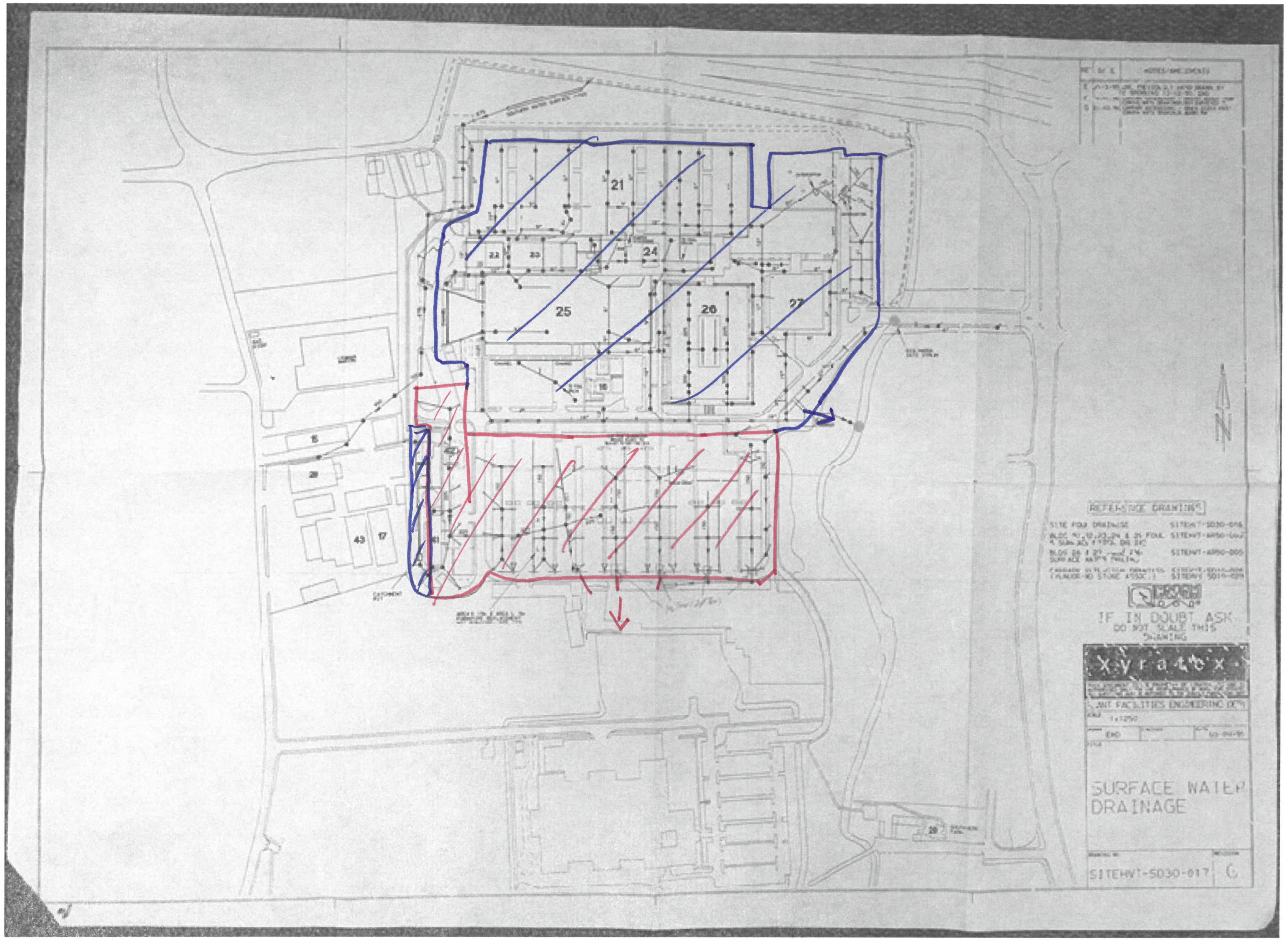
CATCHMENT PIT
DISCHARGE INTO STREAM
N
REFERENCE DRAWINGS
SITE FOUL DRAINAGE
IF IN DOUBT ASK
DO NOT SCALE THIS DRAWING
Xyratex
PLANT FACILITIES ENGINEERING DEPT
SCALE 1:1250
DRAWN END
DATE 03-04-95
SURFACE WATER DRAINAGE
SITEHVT-SD30-017
G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REFERENCE DRAWINGS
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SITEHVT-AR50-005
IF IN DOUBT ASK
DO NOT SCALE THIS DRAWING
XYRATEX
FACILITIES ENGINEERING
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SURFACE WATER DRAINAGE
SITEHVT-SD30-017
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