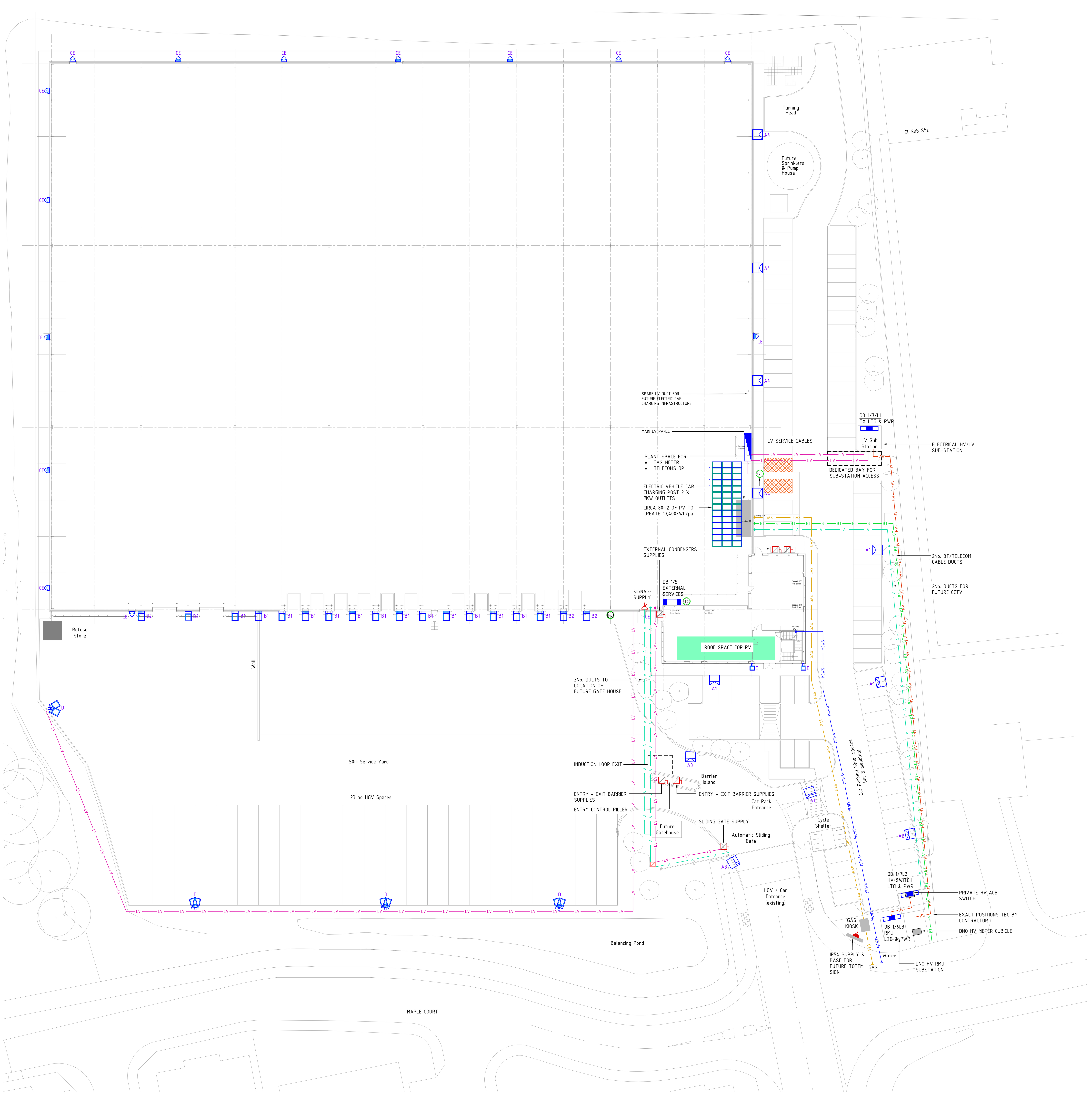
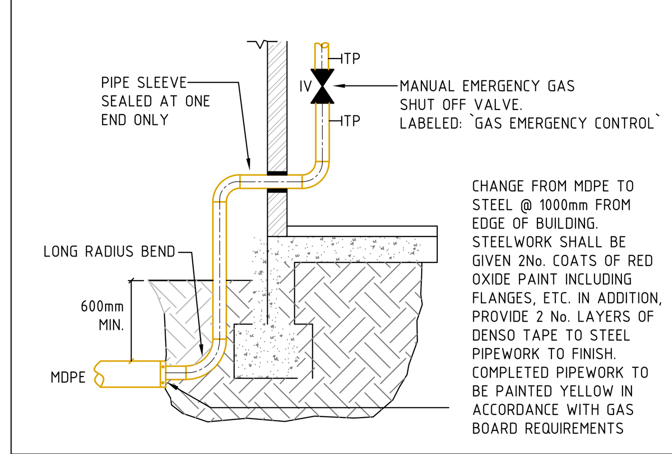


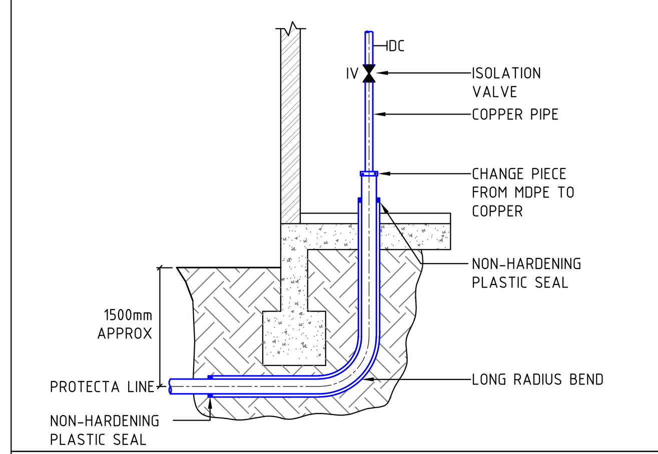
THIS DRAWING IS BASED ON
6157-092 Site Layout Plan

TYPICAL EXTERNAL SERVICES DETAILS

GAS SERVICE INTAKE DETAIL

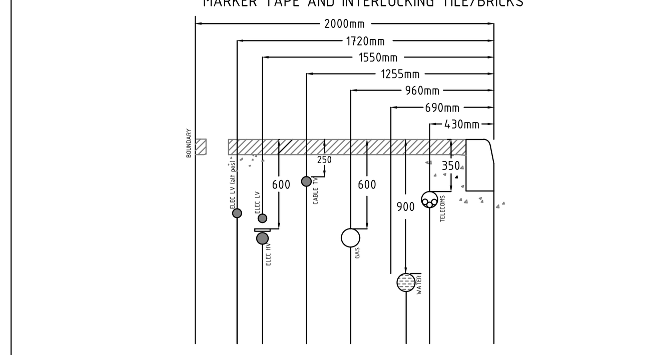


MAINS COLD WATER SERVICE INTAKE DETAIL

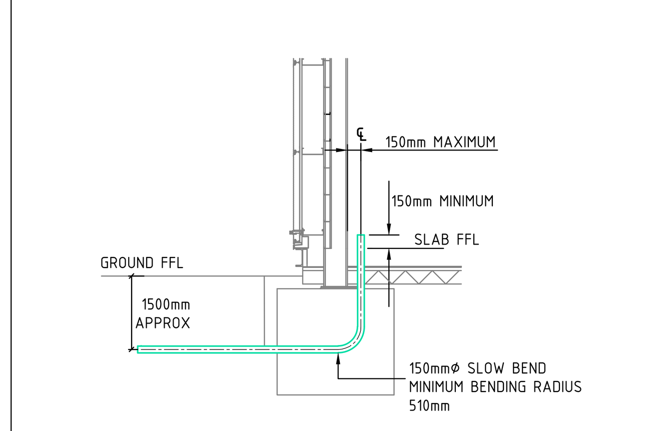


TYPICAL POSITIONING OF UTILITIES BENEATH A FOOTWAY/VERGE

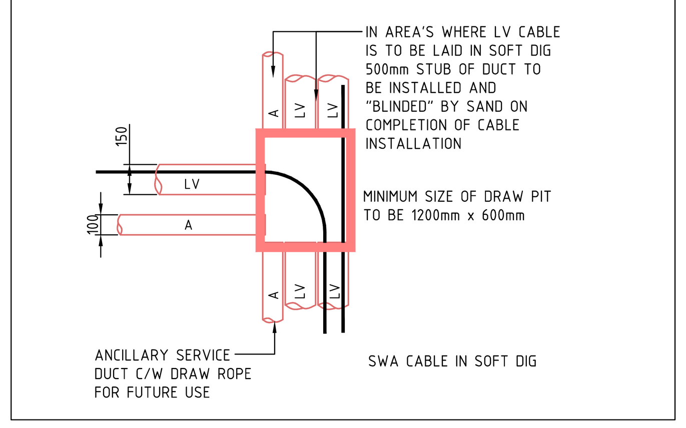
NOTE
ELECTRIC CABLES TO BE INSTALLED WITH MARKER TAPE AND INTERLOCKING TILE/BRICKS



TYPICAL DUCT ENTRY INTO BUILDING



TYPICAL DRAW PIT DETAIL



Powercharge
Data sheet

Input	
Input Voltage	230V
Phase	Single Phase
Input Power	14kW
Input Current	60A
Connection Requirement	80A/30mA RCBO or 80A MCB and 30mA RCD in the customer's distribution board
Electrical Output per socket outlet	
Output charging power	7kW (with the option for 3.6kW)
Output voltage	230V
Output current	30A
Output	
Output charging connector	IEC 62196-2 Type 2
Electrical Safety	
Operating Temperature range	-25 °C to 65 °C
Operating Humidity range	5% to 95% non-condensing
Standard Compliance	EN 60950, IEC 61 851, EN 61000-6-1 2007, EN 61000-6-3 2007
IP rating	IP54
Dimensions, weight and material	
Max width	220mm
Max height floor-standing	1242mm
Max height wall-mounted	830mm
Depth	120mm
Shipping weight	Typically 11.5kg gross 11.0 kg net
Material	Aluminium extrusion
Paint Finish	Powder Coat

LEGEND

IMAGE	SYMBOL	DESCRIPTION
	A1	RECTANGULAR LANTERN LED LUMINAIRE MOUNTED ON 8m COLUMNS AS PER ABACUS LIGHTING - EUDORA AL61001/80W/4k
	A2	RECTANGULAR LANTERN LED LUMINAIRE MOUNTED ON 8m COLUMNS AS PER ABACUS LIGHTING - EUDORA AL61003/80W/4k
	A3	RECTANGULAR LANTERN LED LUMINAIRE MOUNTED ON 8m COLUMNS AS PER ABACUS LIGHTING - EUDORA AL61001/60W/4k
	A4	RECTANGULAR LANTERN LED LUMINAIRE WALL MOUNTED AS PER ABACUS LIGHTING - EUDORA AL61003/80W/4k
	B1	RECTANGULAR LED LUMINAIRE WALL MOUNTED AS PER ABACUS LIGHTING - ARTE AL21102/S1S112/30W
	B2	RECTANGULAR LED LUMINAIRE WALL MOUNTED AS PER ABACUS LIGHTING - ARTE AL21102/S1S112/60W
	C	LED LUMINAIRE WALL MOUNTED AS PER ABACUS LIGHTING - VETTA AL22003 8W / 4K
	CE	LED LUMINAIRE WALL MOUNTED AS PER ABACUS LIGHTING - VETTA AL22003 8W / 4K / EMERGENCY
	D	2No. RECTANGULAR LED LUMINAIRES MOUNTED ON 8m MASTS AS PER ABACUS LIGHTING - ARTE AL21102/S7M111/150W
HV — HV — HV		CABLE DUCT - HIGH VOLTAGE
LV — LV		CABLE DUCT - EXTERNAL LIGHTING & POWER
A — A		CABLE DUCT - ANCILLARY SERVICES
MCWS — MCWS		WATER SUPPLY
GAS — GAS		GAS SUPPLY
BT — BT — BT		BRITISH TELECOMMUNICATIONS
		THREE PHASE & NEUTRAL ISOLATOR
		SWITCHED FUSED CONNECTION UNIT (IP54)
		INTERNALLY MOUNTED 13 AMP SOCKET FOR EXTERNAL SIGNAGE SUPPLY MOUNTED AT 8M AFFL
		DRAW PIT
		TP&N DISTRIBUTION BOARD (AS SCHNEIDER ELECTRIC ACTI9 ISOBAR 'B' TYPE)
		SP&N DISTRIBUTION BOARD
	PC	EXTERNAL LIGHTING PHOTOCELL
	TC	EXTERNAL LIGHTING TIME CLOCK AND CONTACTOR ARRANGEMENT
	EVC	ELECTRIC VEHICLE CHARGING POST
		ELECTRIC VEHICLE CHARGING CARPARK SPACES MINIMUM CARPARK WIDTH 2.8M

ALL ON PLOT EXCAVATIONS, DUCT LAYING AND REINSTATEMENT SHALL BE BY THE APPOINTED CONTRACTOR

NOTES:

1. THIS DRAWING IS PROVIDED AS PART OF ANDERSON GREEN PERFORMANCE DOCUMENTATION AND INDICATES DESIGN INTENT ONLY TO ASSIST IN PRICING. IT DOES NOT CONSTITUTE A DETAILED DESIGN AND IT WILL REMAIN THE RESPONSIBILITY OF THE SUB-CONTRACTOR TO ENSURE THE FINAL DESIGN AND INSTALLATION COMPLIES FULLY WITH THE PROJECT SPECIFICATION.
2. DO NOT SCALE FROM THIS DRAWING.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE MECHANICAL & ELECTRICAL SPECIFICATIONS.
4. ALL GAS PIPEWORK TO BE INSTALLED IN ACCORDANCE WITH THE GAS SAFETY INSTALLATION & USE REGULATIONS 1998 & ALL RELEVANT IGEM PUBLICATIONS.
5. ALL GAS PIPEWORK IS TO BE COMPLETE WITH ALL NECESSARY TEST & PURGE POINTS.
6. ADEQUATE VENTILATION IS TO BE PROVIDED TO ALL GAS PIPEWORK WITHIN DUCTS/VOIDS TO IGEM STANDARD.
7. DRAWING TO BE READ IN COLOUR ONLY.
8. THE POWER & DISTRIBUTION INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THIS DRAWING, THE LATEST EDITION OF BS7671 THE IET WIRING REGULATIONS AND ALL OTHER TENDER DOCUMENTS.
9. PROVIDE AN EARTHING SYSTEM IN ACCORDANCE WITH BS 7671 THE IET WIRING REGULATIONS, BS 7430, ELECTRICITY SUPPLY REGULATIONS AND LOCAL ELECTRICITY SUPPLY AUTHORITY REQUIREMENTS.
10. ALL DUCT DIMENSIONS ARE INTERNAL. DUCT ROUTES SHALL BE COMPLETE WITH SLOW RADIUS BEND PVC DUCTS ALLOWING CABLES TO BE ROUTED.
11. ALL PENETRATIONS THROUGH THE BUILDING FABRIC SHALL BE FULLY AND NEATLY SEALED AT BOTH ENDS AND BE AS SMALL CROSS SECTIONAL AREA AS POSSIBLE. ALL DUCTS SHALL BE WATER AND VERMIN SEALED.
12. DUCTING SHALL BE INSTALLED WITH GLUED JOINTS WITH A STRATEGICALLY SITED ACCESS CHAMBER SYSTEM SIZED TO SUIT THE CABLES TO BE ROUTED WITHIN IT. PULL IN CHAMBERS SHALL BE SITED AS A MINIMUM AT EACH BEND AND ALSO IDEALLY NO GREATER THAN EVERY 50 METRES. THE CABLING AND DUCTING SHALL BE BURIED AT DEPTHS AND SPACED ACCORDING TO NJUG - NATIONAL JOINT UTILITIES GUIDANCE SUITABLE FOR THE VOLTAGES OF THE INSTALLATION. ALL DUCTS SHALL BE INSTALLED AND LEFT WITH 2 NO DRAW ROPES AS A MINIMUM.
13. ALL DUCTS TO BE 100mm MINIMUM UNLESS OTHERWISE STATED.
14. ALL COLUMNS SHALL BE ROOT MOUNTED, FIXED STATIC GALVANISED STEEL TUBULAR WITH A SHIELD-SHAPED FLUSH ACCESS DOOR.

SCALE BAR: 0 2 4 6 8 10 12 14 16 18 20 22 24m

Rev.	Description	Date
P03	ELECTRIC CAR CHARGING ADDED	01.08.19
P02	ISSUED FOR TENDER	15.07.19
P01	ISSUED FOR TENDER	30.04.19

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Client: RULA DEVELOPMENTS

Stage: TENDER

Project: MAPLE ROAD
TANKERSLEY
SOUTH YORKSHIRE

Title: M&E
EXTERNAL SERVICES

BIM Tech:	Eng:	QA Eng:	Date:	Size:	Scale:
DC	MS	MS	04.03.19	A0	1:250

Project No. - Originator - Zone - Level - Type - Role - Drawing No.:	Suitability:	Revision:
NT0626-AG-EX-XX-DR-ME-4001	S2	P03

Template v2.4