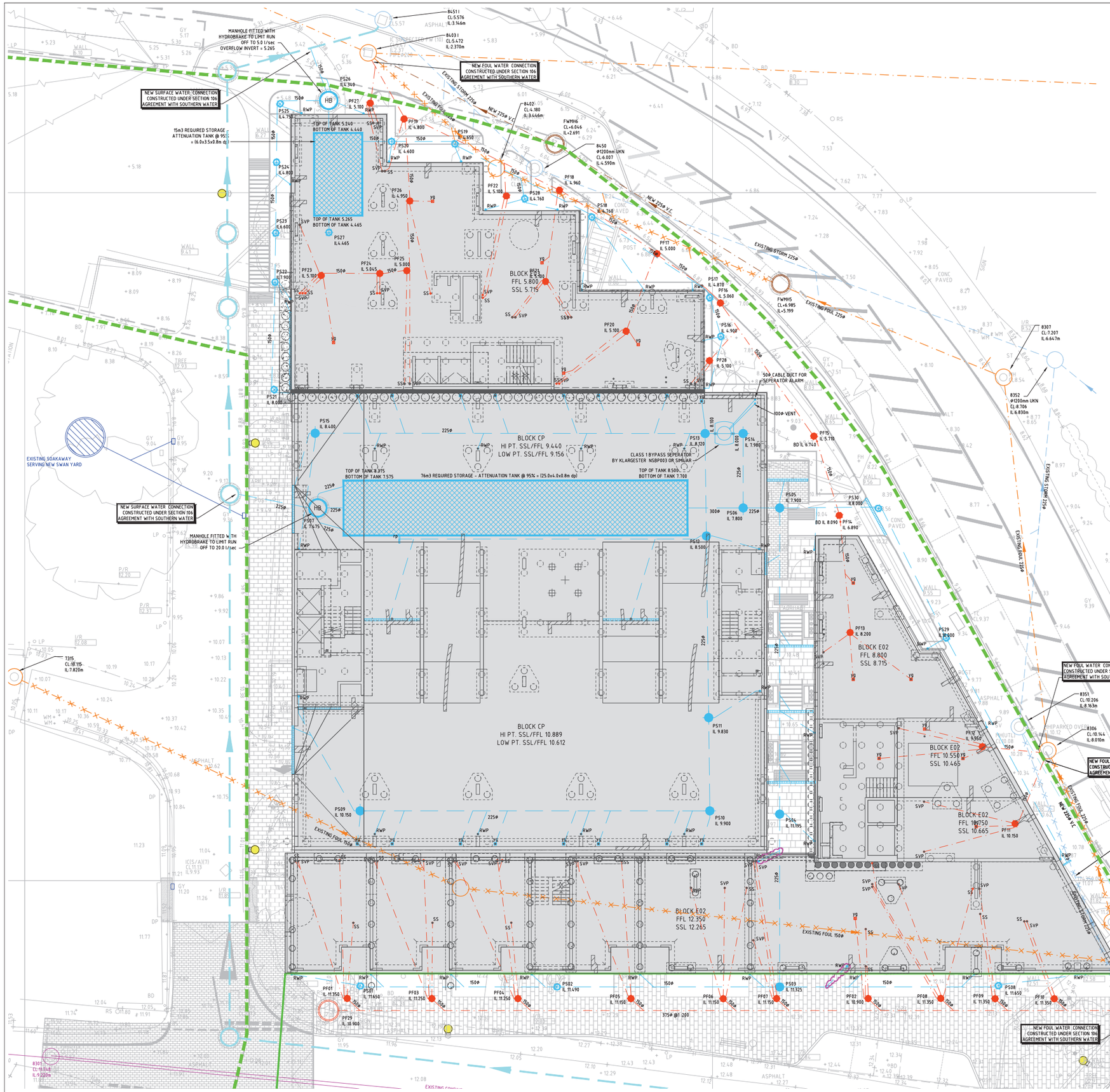


STORM WATER DRAINAGE SCHEDULE

MH REF	COVER LEVEL	INVERT LEVEL	DEPTH (m)	DESCRIPTION	DIMENSION	COVER TYPE	COMMENTS	EASTING	NORTHINGS
PS1	12.250	11.650	0.600	TYPE Y	ø 450	A150	RECESSED COVER	564824.396	174362.351
PS2	12.250	11.490	0.760	TYPE Y	ø 450	A150	RECESSED COVER	564838.702	174362.279
PS3	12.250	11.325	0.925	TYPE Y	ø 600	A150	RECESSED COVER	564854.880	174362.279
PS4	12.250	11.195	1.055	TYPE Y	ø 600	A150	RECESSED COVER	564854.880	174356.869
PS5	9.200	7.900	1.300	TYPE Y	ø 600	A150	RECESSED COVER	564854.880	174377.092
PS6	9.350	7.800	1.550	TYPE Y	ø 600	C250	CATCHPIT	564857.226	174377.092
PS7	9.350	7.475	1.875	TYPE 2	ø 1200	C250	HYDROBRAKE	564821.306	174377.092
PS8	12.250	11.650	0.600	TYPE Y	ø 450	A150	RECESSED COVER	564870.719	174362.372
PS9	10.760	10.150	0.610	TYPE Y	ø 600	C250		564824.381	174355.975
PS10	10.760	9.900	0.860	TYPE Y	ø 600	C250		564849.801	174355.975
PS11	10.800	9.830	0.970	TYPE Y	ø 600	C250		564869.718	174361.853
PS12	9.350	8.500	0.850	TYPE Y	ø 600	C250		564849.550	174375.957
PS13	9.350	8.120	1.230	TYPE Y	ø 600	C250		564849.459	174382.498
PS14	9.350	7.980	1.370	TYPE Y	ø 600	C250		564823.224	174382.498
PS15	9.350	8.400	0.950	TYPE Y	ø 600	C250		564821.112	174382.520
PS16	5.650	4.900	0.750	TYPE Y	ø 450	C250		564850.603	174389.561
PS17	5.650	4.870	0.780	TYPE Y	ø 450	C250		564849.797	174392.372
PS18	5.650	4.760	0.890	TYPE Y	ø 450	C250		564841.221	174398.236
PS19	5.650	4.650	1.000	TYPE Y	ø 450	C250		564831.269	174403.543
PS20	5.650	4.600	1.050	TYPE Y	ø 450	C250	CATCHPIT	564826.467	174403.724
PS21	8.800	8.000	0.800	TYPE Y	ø 450	C250		564818.131	174385.694
PS22	8.800	7.900	0.900	TYPE Y	ø 450	C250		564818.199	174393.504
PS23	7.110	6.600	0.570	TYPE Y	ø 450	C250		564818.249	174397.068
PS24	5.400	4.800	0.600	TYPE Y	ø 450	C250		564818.303	174402.215
PS25	5.650	4.750	0.900	TYPE Y	ø 450	C250		564818.567	174408.445
PS26	5.650	4.340	1.310	TYPE 2	ø 1200	C250	HYDROBRAKE	564822.099	174406.704
PS27	5.800	4.465	1.335	TYPE Y	ø 450	C250	RECESSED COVER	564822.113	174397.114
PS28	5.650	4.760	0.890	TYPE Y	ø 450	C250		564836.347	174399.565
PS29	10.600	10.000	0.600	TYPE Y	ø 450	C250		564866.985	174367.655
PS30	8.650	8.000	0.650	TYPE Y	ø 450	C250		564862.854	174377.062

FOUL WATER DRAINAGE SCHEDULE

MH REF	COVER LEVEL	INVERT LEVEL	DEPTH (m)	DESCRIPTION	DIMENSION	COVER TYPE	COMMENTS	EASTING	NORTHINGS
PF1	12.250	11.350	0.900	TYPE Y	ø 450	A150	RECESSED COVER	564823.441	174341.444
PF2	12.250	10.900	1.350	TYPE Y	ø 450	A150	RECESSED COVER	564865.312	174341.444
PF3	12.250	11.250	1.000	TYPE Y	ø 450	A150	RECESSED COVER	564829.595	174341.435
PF4	12.250	11.250	1.000	TYPE Y	ø 450	A150	RECESSED COVER	564835.854	174341.435
PF5	12.250	11.150	1.100	TYPE Y	ø 450	A150	RECESSED COVER	564844.068	174341.435
PF6	12.250	11.150	1.100	TYPE Y	ø 450	A150	RECESSED COVER	564850.718	174341.425
PF7	12.250	11.150	1.100	TYPE Y	ø 450	A150	RECESSED COVER	564854.955	174341.438
PF8	12.250	11.350	0.900	TYPE Y	ø 450	A150	RECESSED COVER	564866.590	174341.447
PF9	12.250	11.350	0.900	TYPE Y	ø 450	A150	RECESSED COVER	564870.540	174341.425
PF10	12.250	11.350	0.900	TYPE Y	ø 450	A150	RECESSED COVER	564874.842	174341.425
PF11	10.750	10.150	0.600	TYPE Y	ø 450	A150	RECESSED COVER	564871.991	174354.145
PF12	10.550	9.950	0.600	TYPE Y	ø 450	A150	RECESSED COVER	564869.610	174359.739
PF13	8.800	8.200	0.600	TYPE Y	ø 450	A150	RECESSED COVER	564860.000	174368.040
PF14	8.700	6.890	1.810	TYPE Y	ø 450	A150		564859.287	174376.549
PF15	8.700	5.710	2.990	TYPE Y	ø 450	A150		564857.366	174382.309
PF16	5.700	5.060	0.640	TYPE Y	ø 450	A150		564850.570	174391.987
PF17	5.700	5.000	0.700	TYPE Y	ø 450	A150		564845.956	174395.560
PF18	5.700	4.960	0.740	TYPE Y	ø 450	A150		564838.868	174400.184
PF19	5.700	4.800	0.900	TYPE Y	ø 450	A150		564821.538	174455.358
PF20	5.800	5.100	0.700	TYPE Y	ø 450	A150	RECESSED COVER	564843.717	174389.935
PF21	5.800	5.100	0.700	TYPE Y	ø 450	A150	RECESSED COVER	564837.860	174393.550
PF22	5.800	5.100	0.700	TYPE Y	ø 450	A150		564835.009	174399.766
PF23	5.800	5.100	0.700	TYPE Y	ø 450	A150	RECESSED COVER	564821.553	174393.984
PF24	5.800	5.045	0.755	TYPE Y	ø 450	A150	RECESSED COVER	564825.812	174394.130
PF25	5.800	5.000	0.800	TYPE Y	ø 450	A150	RECESSED COVER	564827.778	174396.333
PF26	5.800	4.950	0.850	TYPE Y	ø 450	A150	RECESSED COVER	564827.990	174399.403
PF27	5.800	5.100	0.700	TYPE Y	ø 450	A150		564825.111	174406.510
PF28	5.650	5.100	0.550	TYPE Y	ø 450	A150	RECESSED COVER	564849.779	174387.795
PF29	12.250	10.900	1.350	TYPE 2	ø 1350	A150	RECESSED COVER	564822.094	174340.569
PF30	11.700	8.170	3.530	TYPE 2	ø 1350	DA90	RECESSED COVER	564882.164	174340.569

NOTE: COVER LEVELS SHOWN ARE APPROXIMATE AND ARE TO BE CONFIRMED WHEN PROPOSED FINISHED GROUND LEVEL INFORMATION IS MADE AVAILABLE FROM THE ARCHITECT

LEGEND

- PROPOSED HIGHWAYS BOUNDARY
- EXISTING ADOPTED COMBINED MANHOLE AND SEWER
- EXISTING ADOPTED STORM MANHOLE AND SEWER
- EXISTING ADOPTED FOUL MANHOLE AND SEWER
- EXISTING HIGHWAY STORM MANHOLE AND SEWER
- EXISTING HIGHWAY SOAKAWAY
- ADOPTABLE P.C.C. RING MANHOLE COMBINED (TYPE 1 & 2)
- ADOPTABLE P.C.C. RING MANHOLE STORM (TYPE 1 &2)
- ADOPTABLE P.C.C. RING MANHOLE FOUL (TYPE 1 &2)
- PROPOSED HIGHWAYS SURFACE WATER SEWER AND MANHOLE
- PROPOSED HIGHWAYS SURFACE WATER GULLY
- PROPOSED HIGHWAYS YARD GULLY
- PROPOSED HIGHWAYS CHANNEL DRAIN
- PROPOSED HYDROBRAKE
- PRIVATE P.C.C. RING MANHOLE STORM (TYPE A)
- PRIVATE P.C.C. RING MANHOLE FOUL (TYPE A)
- ø600 uPVC TEGRA FOUL CHAMBERS
- ø600 uPVC TEGRA STORM CHAMBERS
- PRIVATE SURFACE WATER INSPECTION CHAMBER (TYPE Y)
- PRIVATE FOUL WATER INSPECTION CHAMBER (TYPE Y)
- PRIVATE FOUL YARD GULLY
- PRIVATE STORM YARD GULLY
- PRIVATE FOUL SVP
- PRIVATE FOUL STUB STACK
- PRIVATE STORM RWP
- CHANNEL DRAIN
- RODDING POINT
- PRIVATE STORM ROAD GULLY

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NOTES:

1. DO NOT SCALE THIS DRAWING
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWING ISSUES AND THE SPECIFICATION.
3. ALL ADOPTABLE HIGHWAY CONSTRUCTION WORKS SHALL BE CARRIED OUT TO THE STANDARD LAID DOWN IN GRAVESHAM BOROUGH COUNCILS SPECIFICATIONS, WITH A VIEW TO ADOPTION UPON COMPLETION.
4. ALL ADOPTABLE SEWERS AND SOAKAWAYS SHALL BE CONSTRUCTED TO THE STANDARDS LAID DOWN IN "SEWERS FOR ADOPTION" 6th EDITION, THAMES WATER'S AND GRAVESHAM BOROUGH COUNCILS SPECIFICATIONS, WITH A VIEW TO ADOPTION UPON COMPLETION.
5. ALL SEWERS WITH LESS THAN 1.2m OF COVER WHEN LAID BENEATH THE ROADS, OR 0.9m OF COVER IN OTHER AREAS, SHALL BE PROTECTED WITH CONCRETE IN ACCORDANCE WITH EITHER OF THE DETAILS SHOWN ON THE STANDARD DRAWING PROVIDED (FOR BEDDING TYPE LOCATIONS, REFER TO SEWER SECTIONS).
6. IN ORDER TO MAINTAIN THE SATISFACTORY FUNCTIONING OF DRAINAGE SYSTEM, ALL ROAD AND YARD GULLIES ARE TO BE "TRAPPED".
7. ALL NON ADOPTABLE LATERALS BENEATH THE HIGHWAY SHALL BE BACKFILLED WITH LEAN MIX CONCRETE UNLESS OTHERWISE AGREED WITH THE HIGHWAYS ENGINEER.
8. ALL PRIVATE SEWERS ARE TO BE 100mm DIA. UNLESS OTHERWISE STATED. THE PRIVATE DRAINAGE DESIGN ON THE PLAN HAS BEEN BASED ON THE PRINCIPLES OF A uPVC SYSTEM. IT CAN BE ADAPTED TO SUIT A STONEWARE SYSTEM BUT REFERENCE SHOULD BE MADE TO THIS OFFICE BEFORE AMENDMENTS ARE MADE.
9. ALL PRIVATE DRAINAGE TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS APPROVED DOCUMENT "H" BS EN 752, AND TO THE SATISFACTION OF MBC/LONDON BOROUGH OF NEWHAMS BUILDING CONTROL SECTION.
10. MANHOLES SITUATED WITHIN AREAS ACCESSIBLE TO MOTOR VEHICLES ARE TO BE FITTED WITH SUITABLE STRENGTH COVERS AND FRAMES.
11. WHERE DRAINS PASS THROUGH FOUNDATIONS, A FLEXIBLE JOINT SHOULD BE PROVIDED WITHIN 150mm OF THE FACE OF THE STRUCTURE. WHERE TYPE 2 MANHOLES ARE EMPLOYED OR CONCRETE SURROUND IS ADDED TO OTHER MANHOLES A ROCKER PIPE OF MAX 600mm IN LENGTH SHALL BE PROVIDED EITHER SIDE OF THE MANHOLE, LAID AT A SLIGHTLY STEEPER GRADIENT TO ALLOW FOR SETTLEMENT.
12. STUB STACKS FITTED WITH AIR ADMITTANCE VALVES MAY BE USED INSTEAD OF SOIL AND VENT PIPES, SUBJECT TO THE ARCHITECTS APPROVAL (EXCEPT WHERE THE DRAINAGE CONNECTION EXCEEDS 10m BEFORE CONNECTING WITH ANOTHER VENTILATED DRAIN OR INSPECTION CHAMBER OR MANHOLE). HEAD OF DRAIN VENT PIPES MUST NOT BE FITTED WITH AIR ADMITTANCE VALVES.
13. SHALLOW PRIVATE DRAINS MAY REQUIRE PROTECTION USING CONCRETE SURROUND OR PAVING SLABS BRIDGING THE TRENCH SUBJECT TO THE BUILDING INSPECTOR'S REQUIREMENTS.
14. APPROPRIATE MEASURES TO BE AGREED WITH THE DISTRICT COUNCIL'S BUILDING CONTROL SECTION, ARE TO BE TAKEN TO DISCOURAGE RODENT ENTRY INTO THE PROPERTIES.
15. WHERE DRAIN RUNS PASS CLOSE TO BUILDINGS OR THEIR INVERT LEVELS ARE BELOW FOUNDATION LEVEL, THEN THE TRENCHES ARE TO BE BACKFILLED IN ACCORDANCE WITH THE STANDARD DETAIL PROVIDED.
16. REFERENCE SHOULD BE MADE TO THE STRUCTURAL ENGINEERS DETAILS FOR ALL ASPECTS OF FOUNDATION DESIGN AND CONSTRUCTION.
17. BEFORE DETERMINING THE AMOUNT OF FACE BRICKWORK TO EACH UNIT, CONSIDERATION MUST BE GIVEN TO THE PROPOSED FINISHED GROUND LEVELS IN THE VICINITY OF THE PROPERTY. THE LEVELS SHOWN ON THIS DRAWING HAVE BEEN DESIGNED UPON THE PARAMETERS SET DOWN IN THE APPROVED DOCUMENT "H" OF THE BUILDING REGULATIONS 1991 (9TH EDITION).
18. THE CONTRACTOR IS TO KEEP A RECORD OF ANY VARIATIONS MADE ON SITE, INCLUDING THE RELOCATION OF SEWERS OR DRAINS, SO THAT AN AS CONSTRUCTED DRAWING CAN BE PREPARED UPON COMPLETION OF THE PROJECT.
19. THE CONTRACTOR SHOULD CHECK ALL DIMENSIONS ON SITE.
20. IT IS THE SUBCONTRACTORS RESPONSIBILITY TO ENSURE COMPLIANCE WITH CURRENT BUILDING REGULATIONS AND CODES OF PRACTICE.
21. CONNECTIONS TO AND DIVERSIONS OF EXISTING DRAINAGE ARE TO BE CHECKED FOR LEVEL AND POSITION PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ON SITE. ANY SIGNIFICANT DIFFERENCES ARE TO BE REPORTED TO THIS OFFICE SO THAT DESIGNS MAY BE ADJUSTED ACCORDINGLY.
22. ADDITIONAL CONCRETE SURROUND TO MANHOLES REQUIRED IN ACCORDANCE WITH THE STANDARD DETAILS WHERE COVER ABOVE SEWER IS LESS THAN 900mm
23. COVER LEVELS SHOWN ARE APPROXIMATE AND ARE TO BE CONFIRMED WHEN PROPOSED FINISHED GROUND LEVEL INFORMATION IS MADE AVAILABLE FROM THE ARCHITECT

REV	DATE	DESCRIPTION	BY
P8	08/08/24	WP38-ASSIGNED TO CURO	RH
P7	25/04/22	REVISED AS CLOUDED	GMC
P6	23/02/22	COORDINATION ISSUE	GMC
P5	05/01/21	COORDINATION ISSUE	GMC
P4	11/08/21	COORDINATION ISSUE	GMC
P3	04/06/21	COORDINATION ISSUE	GMC
P2	01/04/21	COORDINATION ISSUE	RH
P1	11/06/20	PRELIMINARY ISSUE	RH

DRG STATUS: PRELIMINARY

CLIENT: CURO CONSTRUCTION LTD

PROJECT: THE CHARTER GRAVESEND

DRG TITLE: TECHNICAL LAYOUT SHEET 2

Manhire Associates CONSULTING ENGINEERS
Manhire Associates Limited
Consulting Engineers
Hanover House
76 Coombe Road, Norbiton
Kingston Upon Thames, KT2 7AZ
T: +44 20 8390 9097
F: +44 20 8390 7888
E: enquiries@manhireassociates.co.uk

PROJECT NO	DRG NO	REV	SCALE
19042	C1061	P8	1:100

DRN: RH | DATE: JUNE 20

Touchstone

Part of Places for People

Appendix 5
Car Park Layout

DRAWINGS RECORD

REVISION	DATE	COMMENTS	REVBY	CHKBY
C01	03/08/2023	DRAINAGE REVISED & DOUBLE RWP ADDED	D	LGP
C04	03/10/2023	DRAINAGE SETTING OUT DIMS. ADDED	D	LGP
C05	23/02/2023	UPDATED AS C3 ISSUED	D	LGP
C06	01/06/2023	DR INLET AND ROLLER SHUTTERS ADDED	D	MC
C07	14/08/2023	EXT VG AND BARRIER ADDED. CAR PARKING SET P1-3 SWAPPED WITH MD P1 & P2 SPACES	D	LGP
C08	31/08/2023	CAR PARKING LAYOUT ADJUSTED TO SUDDS REQUIREMENTS	D	LGP
C09	13/11/2023	DRY RISER INLET SETTING OUT INFO ADDED	D	LGP
C10	05/03/2024	DRY RISER INLET SIZE AND SETTING OUT REVISED	D	LGP
C11	21/11/2024	FIRE PROTECTION ADDED TO WALL AS FIRE CONSULTANT COMMENTS	D	LGP
C12	18/02/2025	DRY RISER INLET REVISED	M	T
C13	01/05/2025	DISABLED REFUGE AREA ADDED TO MAIN CORE	D	LGP
C14	19/05/2025	CRASH BARRIERS REINSTATED	D	LGP

KEY PLAN

SIGNIFICANT HEALTH AND SAFETY RISKS (UNUSUAL AND DIFFICULT TO MANAGE ONLY)

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement; in addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

DO NOT SCALE OFF THIS DRAWING

This scheme is subject to town planning and all other necessary consents.

Dimensions, area and levels where given are only approximate and subject to site survey. All dimensions are to be checked on site. Any discrepancies or variations are to be reported to the architect before work commences. Figured dimensions only are to be taken from this drawing.

This drawing is to be read in conjunction with all relevant consultants and / or specialists drawings / documents and any discrepancies or variations are to be reported to the architect before the affected work commences.

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STAGE 4 / 5 ISSUE

Client
REEF ESTATES LTD

Contractor
CURO LIVING LTD

Consultants
G&T, EDC, MANHIRE, WATERMAN, HED, BB7

leslie jones architecture

South Wing, First Floor, 55 Baker Street, London, W1U 8EW
T: 020 7255 1150
E: admin@leslie-jones.co.uk
W: www.lesliejones.co.uk

Job Title
THE CHARTER
RIBA STAGE 4/5

Project Number 3732

Drawing Title
PROPOSED MSCP E04 LEVEL 00 GA PLAN

1 : 50 @A0 09/05/18 MMA LP

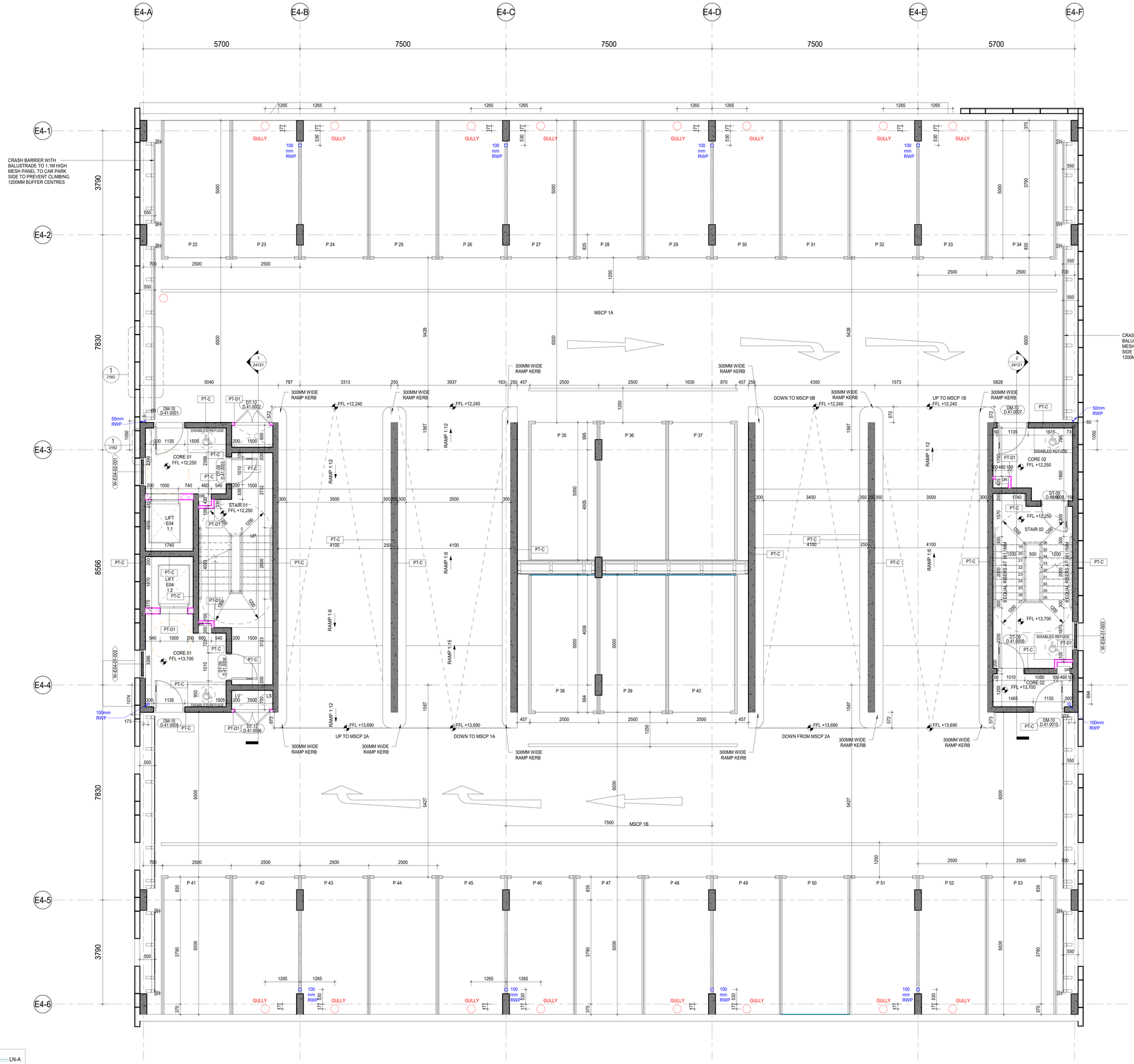
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3732 - LJA - E04 - 00 - DR - A - 04051

suitability: A5 CONTRACTUAL ISSUE
code | description:
revision: C14 CRASH BARRIERS REINSTATED

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INTERNAL WALL TYPES

PT-A	PT-B1	PT-C2	PT-C5	PT-S	LN-A
PT-A1		PT-C3	PT-D1		LN-B
PT-A2	PT-B2		PT-D2	SW-A	LN-C
PT-A3	PT-C			SW-B	LN-D
PT-B	PT-C1	PT-C4	PT-D3		



INTERNAL WALL TYPES

PT-A	PT-B1	PT-C2	PT-C5	PT-S	LN-A
PT-A1			PT-D1		LN-B
PT-A2	PT-B2	PT-C3	PT-D2	SW-A	LN-C
PT-A3	PT-C			SW-B	LN-D
PT-B	PT-C1	PT-C4	PT-D3		

DRAWINGS RECORD

REVISION:	DATE	COMMENTS	REV BY	CHK BY
P1	31/07/2020	STAGE 4 PRELIMINARY	AC	MT
P2	28/08/2020	STAGE 4 PRELIMINARY	AJC	MT
C01	15/12/2020	CONSTRUCTION ISSUE	LP	MT
C02	14/04/2021	CAR PARK BAYS LAYOUT AMENDED TO SUIT MEP PLANNING. PROTECTION BARRIERS ADDED. DOOR POSITION ADJUSTED.	JS	LGP
C03	23/08/2021	DRAINAGE AMENDED	TL	LGP
C04	01/10/2021	DRAINAGE SETTING OUT DIMS ADDED	JS	LGP
C05	23/02/2022	DETAIL REFS ADDED	JS	LGP
C06	19/12/2024	REMOVED DRAWING	JS	LGP
C07	15/03/2025	DOOR TYPES REVISED	MI	LGP
C08	31/05/2025	DISABLED REFUGE AREA ADDED TO MAIN CORE 2	JS	LGP
C09	19/05/2025	CRASH BARRIERS REINSTATED	JS	LGP

KEY PLAN

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STAGE 4 / 5 ISSUE

Client
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Consultants
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leslie jones architecture

South Wing, First Floor,
55 Baker Street,
London, W1U 8EW

T: 020 7255 1150
E: admin@leslie-jones.co.uk
W: www.lesliejones.co.uk

Job Title
THE CHARTER
RIBA STAGE 4/5

Project Number 3732

Drawing Title
PROPOSED MSCP E04 LEVEL 01 GA PLAN

1 : 50 @A0 09/05/18 MMA LP

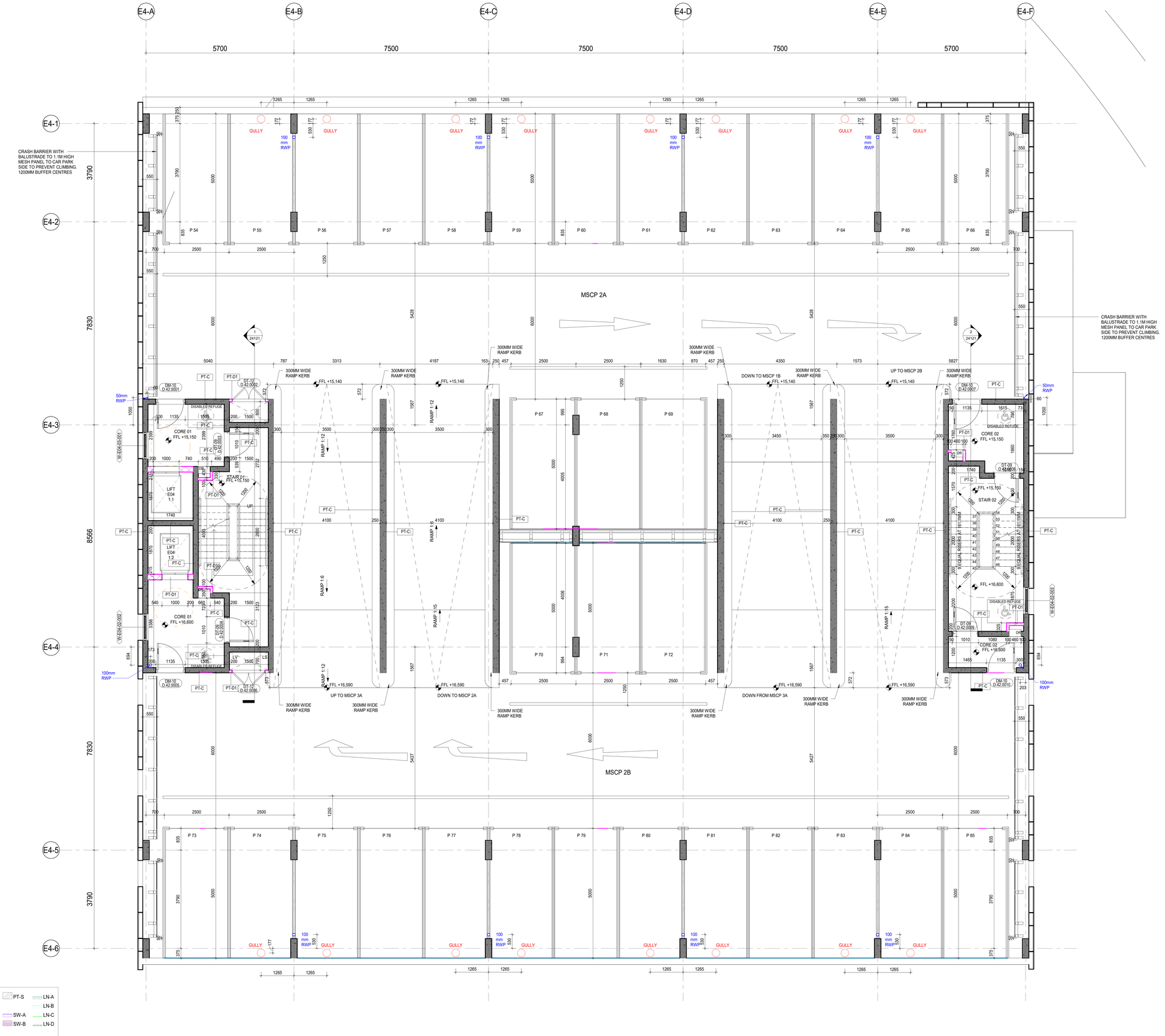
project	originator	volume	level	type	role	number
3732	LJA	E04	01	DR	A	04052

suitability code: A5 description: CONTRACTUAL ISSUE

revision code: C09 description: CRASH BARRIERS REINSTATED

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09/05/2025 15:39:54



INTERNAL WALL TYPES

PT-A, PT-A1, PT-A2, PT-A3, PT-B, PT-B1, PT-B2, PT-C, PT-C1, PT-C2, PT-C3, PT-C4, PT-C5, PT-D1, PT-D2, PT-D3, PT-S, SW-A, SW-B, LN-A, LN-B, LN-C, LN-D

DRAWINGS RECORD

REVISION:	DATE	COMMENTS	REV BY	CHK BY
P1	31/07/2020	STAGE 4 PRELIMINARY	JC	MT
P2	28/08/2020	STAGE 4 PRELIMINARY	AJC	MT
C01	13/12/2020	CONSTRUCTION ISSUE	LP	MT
C02	14/04/2021	CAR PARK BAYS LAYOUT AMENDED TO SUIT M&E PLUMBING, PROTECTION BARRIERS ADDED. DOOR POSITION ADJUSTED.	LS	GP
C03	23/08/2021	DRAINAGE ADDED	LS	GP
C04	01/10/2021	DRAINAGE SETTING OUT DIMS ADDED	LS	GP
C05	19/12/2024	REBADGED DRAWING	JS	GP
C06	19/02/2025	DOOR TYPES REVISED	AK	JS
C07	01/05/2025	DISABLED REFUGE AREA ADDED TO MAIN CORE	JS	GP
C08	19/05/2025	CRASH BARRIERS REINSTATED	JS	GP

KEY PLAN

SIGNIFICANT HEALTH AND SAFETY RISKS (UNUSUAL AND DIFFICULT TO MANAGE ONLY)

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STAGE 4 / 5 ISSUE

Client
REEF ESTATES LTD

Contractor
CURO LIVING LTD

Consultants
G&T, EDC, MANHIRE, WATERMAN, HED, BB7

leslie jones architecture
South Wing, First Floor,
55 Baker Street,
London, W1U 8EW
T: 020 7255 1150
E: admin@leslie-jones.co.uk
W: www.lesliejones.co.uk

Job Title
THE CHARTER
RIBA STAGE 4/5

Project Number 3732

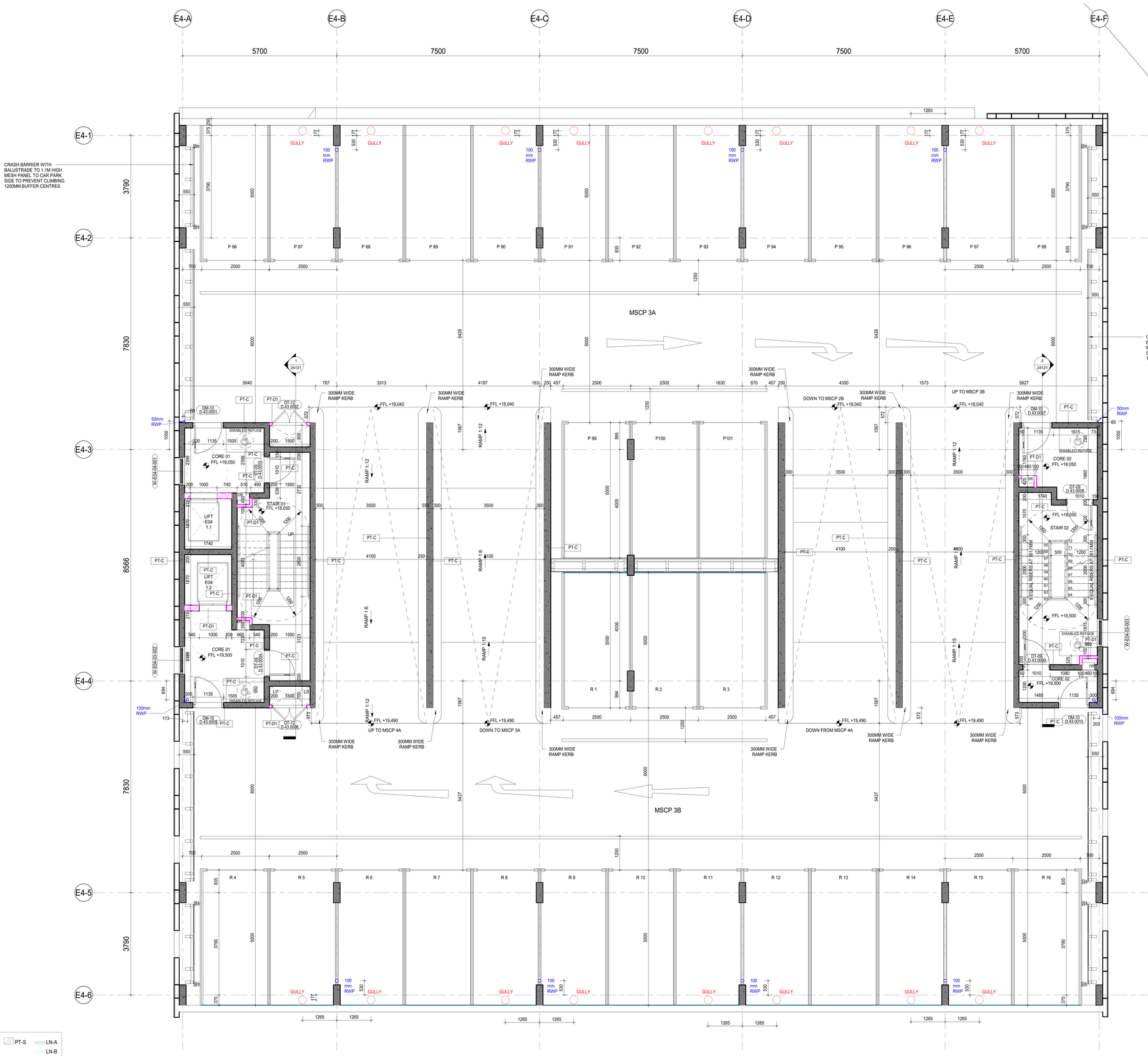
Drawing Title
PROPOSED MSCP E04 LEVEL 02 GA PLAN

1 : 50 @A0 09/05/18 MMA LP

project	originator	volume	level	type	role	number
3732	LJA	E04	02	DR	A	04053

suitability: A5 CONTRACTUAL ISSUE
revision: C08 CRASH BARRIERS REINSTATED

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INTERNAL WALL TYPES

DRAWINGS RECORD

REVISION	DATE	COMMENTS	REV BY	CHK BY
P1	31/07/2020	STAGE 4 PRELIMINARY	AC	MT
P2	28/08/2020	STAGE 4 PRELIMINARY	AJC	MT
C01	19/12/2020	CONSTRUCTION ISSUE	LP	MT
C02	14/04/2021	CAR PARK BAYS LAYOUT AMENDED TO SUIT MEP PLUMBING. PROTECTION BARRIERS ADDED. DOOR POSITION ADJUSTED.	D	LGP
C03	23/08/2021	DRAINAGE SETTING OUT ADDED	D	LGP
C04	01/10/2021	DRAINAGE SETTING OUT DIMS ADDED	D	LGP
C05	16/12/2024	EV CHARGING BAYS (16NO.) LIMITED & REMOVED DRAWING	D	LGP
C06	18/02/2025	DOOR TYPES REVISED	MF	D
C07	30/05/2025	DISABLED REFUGE AREA ADDED TO MAIN CORE	D	LGP
C08	19/05/2025	CRASH BARRIERS REINSTATED	D	LGP

KEY PLAN

SIGNIFICANT HEALTH AND SAFETY RISKS (UNUSUAL AND DIFFICULT TO MANAGE ONLY)

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leslie jones architecture
South Wing, First Floor, 55 Baker Street, London, W1U 8EW
T: 020 7255 1150
E: admin@leslie-jones.co.uk
W: www.lesliejones.co.uk

Job Title
THE CHARTER
RIBA STAGE 4/5

Project Number 3732

Drawing Title
PROPOSED MSCP E04 LEVEL 03 GA PLAN

1 : 50 @A0 09/05/18 MMA LP

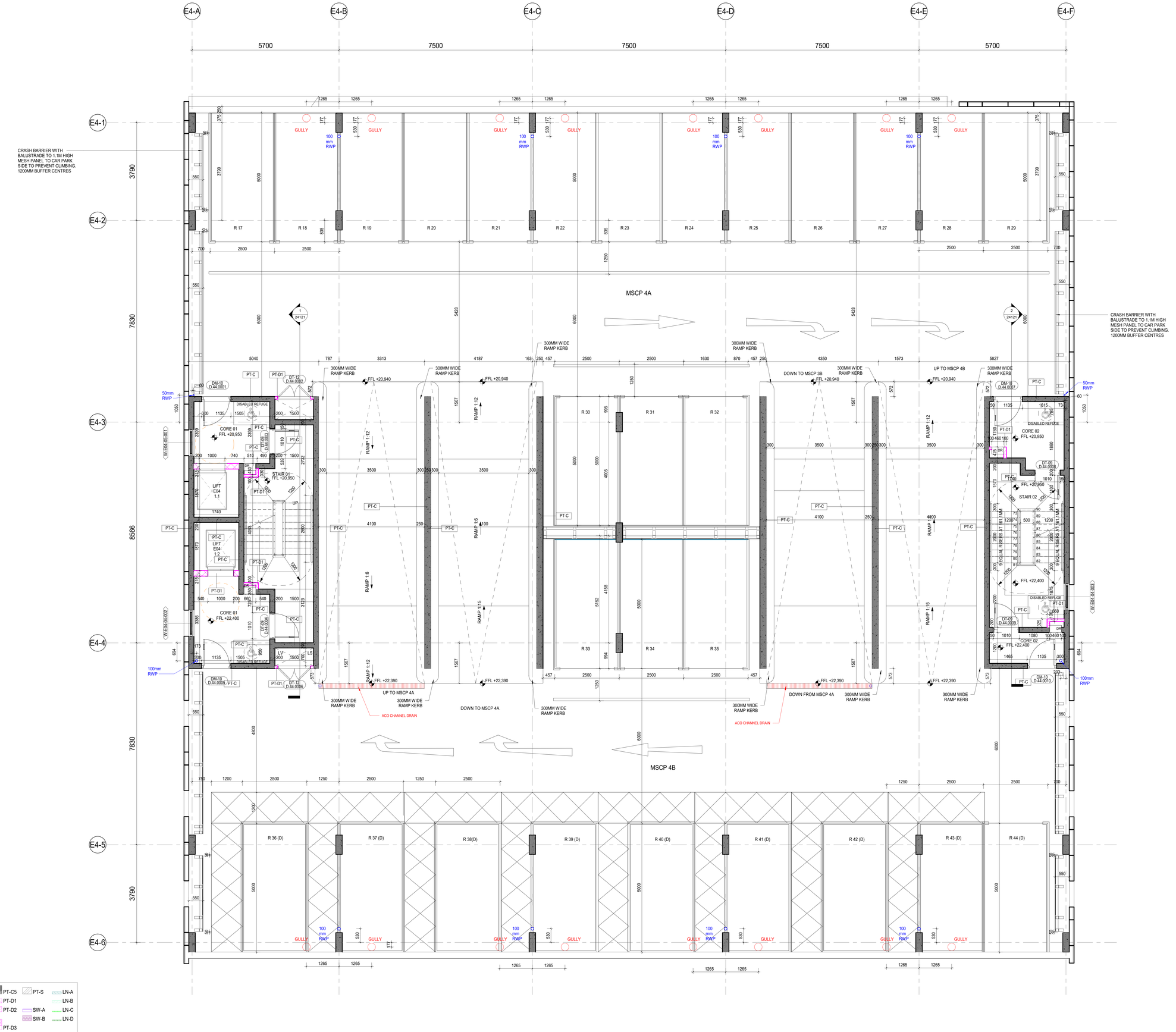
project originator volume level type role number
3732 - LJA - E04 - 03 - DR - A - 04054

suitability code description:
A5 CONTRACTUAL ISSUE

revision code description:
C08 CRASH BARRIERS REINSTATED

09/05/2025 16:36:34

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INTERNAL WALL TYPES

DRAWINGS RECORD

REVISION	DATE	COMMENTS	REV BY	CHK BY
P1	31/07/2020	STAGE 4 PRELIMINARY	AC	MT
P2	28/08/2020	STAGE 4 PRELIMINARY	AJC	MT
C01	19/12/2020	CONSTRUCTION ISSUE	LP	MT
C02	14/04/2021	CAR PARK BAYS LAYOUT AMENDED TO SUIT MEP PLUMBING, PROTECTION BARRIERS ADDED. DOOR POSITION ADJUSTED.	D	LGP
C03	23/09/2021	DRAINAGE SETTING OUT DIMS ADDED	D	LGP
C04	01/10/2021	DRAINAGE SETTING OUT DIMS ADDED	D	LGP
C05	18/12/2024	EV CHARGING BAYS (ONE) LIMITED & REENDED DRAWING	D	LGP
C06	18/02/2025	DOOR TYPES REVISED	MF	D
C07	30/05/2025	DISABLED REFUGE AREA ADDED TO MAIN CORE	D	LGP
C08	19/05/2025	CRASH BARRIERS REINSTATED	D	LGP

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Job Title
THE CHARTER
RIBA STAGE 4/5

Project Number 3732

Drawing Title
PROPOSED MSCP E04 LEVEL 04 GA PLAN

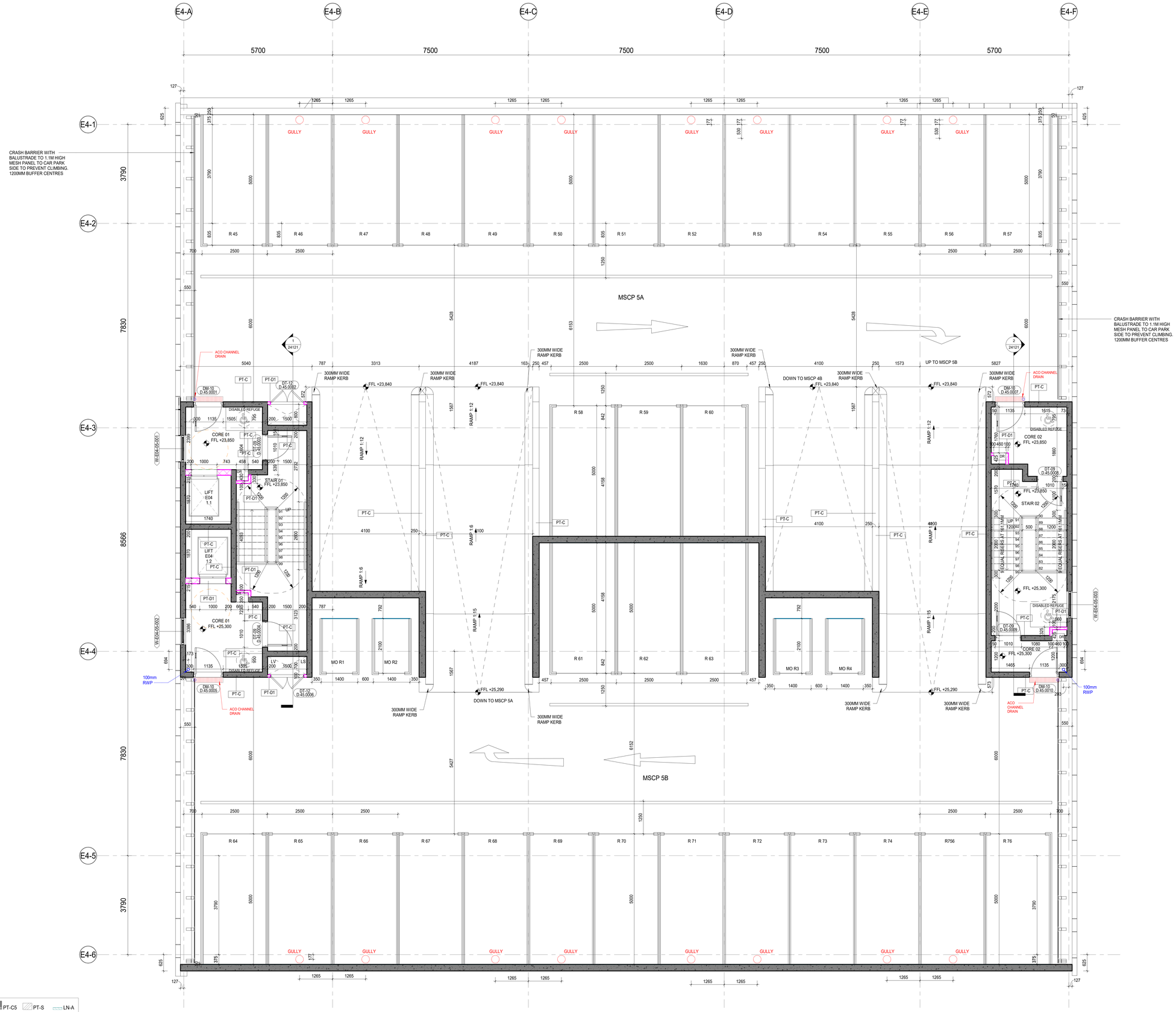
1 : 50 @A0 09/05/18 MMA LP

project	originator	volume	level	type	role	number
3732	LJA	E04	04	DR	A	04055

suitability: code A5 description: CONTRACTUAL ISSUE
revision: code C08 description: CRASH BARRIERS REINSTATED

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190.000 / 9.913



INTERNAL WALL TYPES

DRAWINGS RECORD

REVISION:	DATE	COMMENTS	REV BY	CHK BY
P1	31/07/2020	STAGE 4 PRELIMINARY	JC	ST
P2	28/08/2020	STAGE 4 PRELIMINARY	AJC	ST
C01	19/12/2020	CONSTRUCTION ISSUE	ST	ST
C02	14/04/2021	CAR PARK BAYS LAYOUT AMENDED TO SUIT MEP PLANNING. PROTECTION BARRIERS ADDED. DOOR POSITION ADJUSTED.	JS	CGP
C03	23/08/2021	DRAINAGE ADDED	JS	CGP
C04	01/10/2021	DRAINAGE SETTING OUT DIMS ADDED	JS	CGP
C05	19/12/2024	REBADGED DRAWING	JS	CGP
C06	19/02/2025	DOOR TYPES REVISED	AK	JS
C07	01/05/2025	DISABLED REFUGE AREA ADDED TO MAIN CORE	JS	CGP
C08	19/05/2025	CRASH BARRIERS REINSTATED	JS	CGP

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leslie jones architecture
South Wing, First Floor, 55 Baker Street, London, W1U 8EW
T: 020 7255 1150
E: admin@leslie-jones.co.uk
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Job Title
THE CHARTER
RIBA STAGE 4/5

Project Number 3732

Drawing Title
PROPOSED MSCP E04 LEVEL 05 GA PLAN

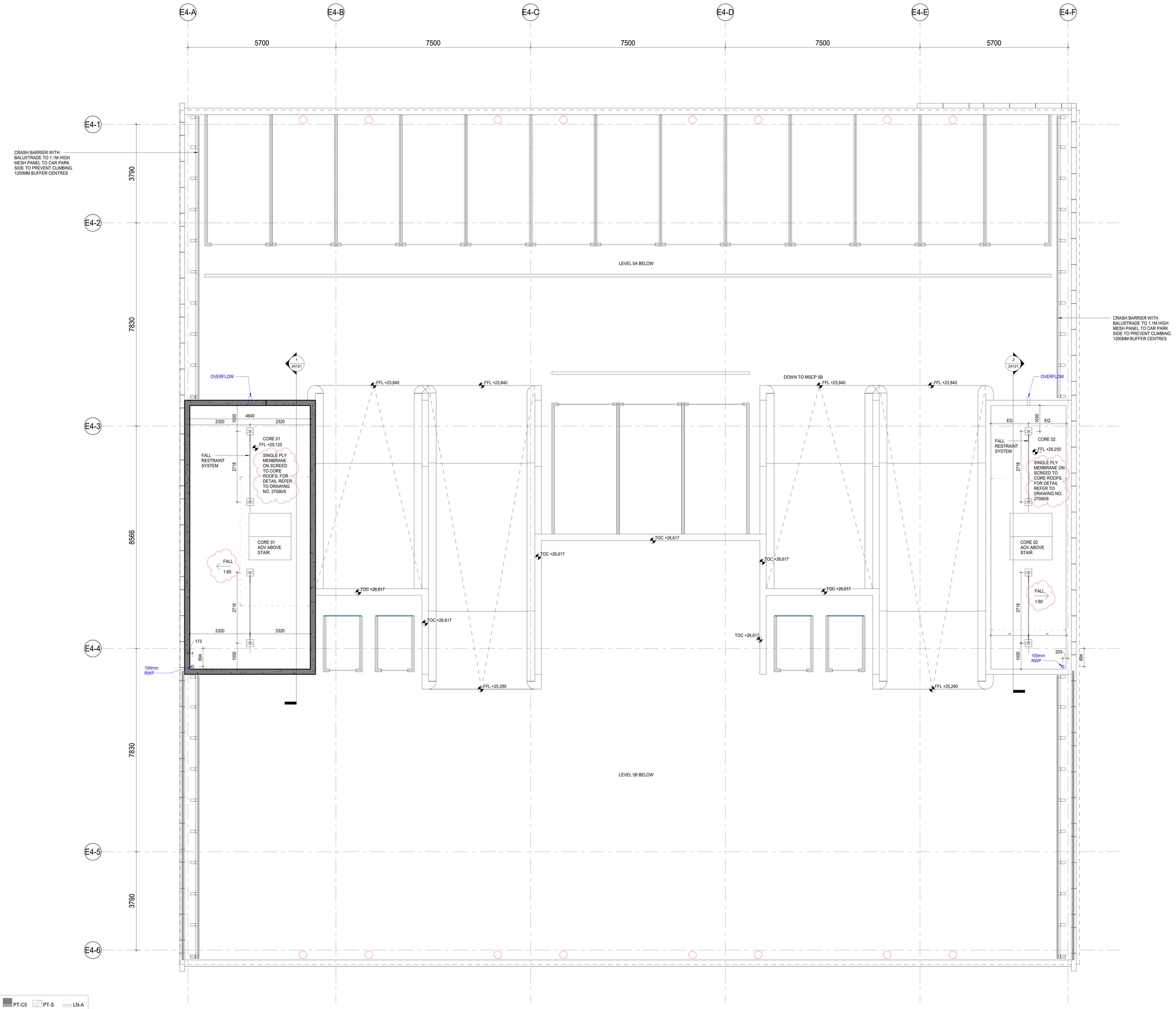
1 : 50 @A0 09/05/18 MMA LP

project	originator	volume	level	type	role	number
3732 -	LJA -	E04 -	05 -	DR -	A -	04056

suitability: code description
A5 CONTRACTUAL ISSUE

revision: code description
C08 CRASH BARRIERS REINSTATED

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INTERNAL WALL TYPES

PT-A	PT-B1	PT-C2	PT-C5	PT-S	LN-A
PT-A1			PT-D1		LN-B
PT-A2	PT-B2	PT-C3	PT-D2	SW-A	LN-C
PT-A3	PT-C			SW-B	LN-D
PT-B	PT-C1	PT-C4	PT-D3		

DRAWINGS RECORD

REVISION:	DATE	COMMENTS	REV BY	CHK BY
P1	31/07/2020	STAGE 4 PRELIMINARY	AC	MT
P2	28/08/2020	STAGE 4 PRELIMINARY	AJC	MT
C01	19/12/2020	CONSTRUCTION ISSUE	LP	MT
C02	14/04/2021	CAR PARK BAYS LAYOUT AMENDED TO SUIT MEP PLANNING. CORE 01 ROOF LEVEL ADJUSTED	JS	LDP
C03	23/08/2021	STAIR CORE REVISED	JS	LDP
C04	01/10/2021	DRAINAGE SETTING OUT DIMS. ADDED	JS	LDP
C05	19/12/2024	REENGISED DRAWING	JS	LDP
C06	04/04/2025	M/E COORDINATED WITH M&E	JS	LDP
C07	09/05/2025	FALL RESTRAINT SYSTEM ADDED TO CORE ROOFS	JS	LDP
C08	19/05/2025	CRASH BARRIERS REINDEXED	JS	LDP
C09	11/06/2025	SCREED FALL ADDED TO CORE ROOFS	JS	LDP

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Job Title
THE CHARTER
RIBA STAGE 4/5

Project Number 3732

Drawing Title
PROPOSED MSCP E04 LEVEL 06 GA PLAN

1 : 50 @A0 09/05/18 MMA LP

project	originator	volume	level	type	role	number
3732	LJA	E04	06	DR	A	04057

suitability: code A5 description: CONTRACTUAL ISSUE

revision: code C09 description: SCREED FALL ADDED TO CORE ROOFS

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10/06/2025 10:08:08

Touchstone

Part of Places for People

Appendix 6
External Lighting Strategy

	Luminaire A	Luminaire B	Luminaire C	Luminaire D
Supplier	C U Phosco	C U Phosco	C U Phosco	C U Phosco
Type	P863-128-R1-740-W5-250-34W	P863-16-P4-NW-E0400-22W	P863-128-P4-740-W5-325-43W	P863-16-R3-NW-E0550-29W
Lamp(s)	740SS	740P NW	740SS	740P NW
Lamp Flux (klm)	5.11	2.44	6.35	3.44
Maintenance Factor	0.84	0.84	0.84	0.84
No. in Project	10	11	2	3

BCAH003 TO STAYB

BCAH004 TO STAYB

BCAH002 TO STAYB

BCAH005 TO STAYB

BCAH006 TO STAYB

BCAH007 TO STAYB

EX COL TO STAYD

EXISTING TO STAYD

BTAI001 TO STAYB

BTAI002 TO STAYB

EXIST REMOVEDB

R&L COLUMN 7A

BUS STOP

DISABLED

KEEP CLEAR

SOME INFORMATION MAY BE MISSING DUE TO PARKED VEHICLES

LOADING ONLY

SUB-STATION

ASPHALT

CONC PAVED

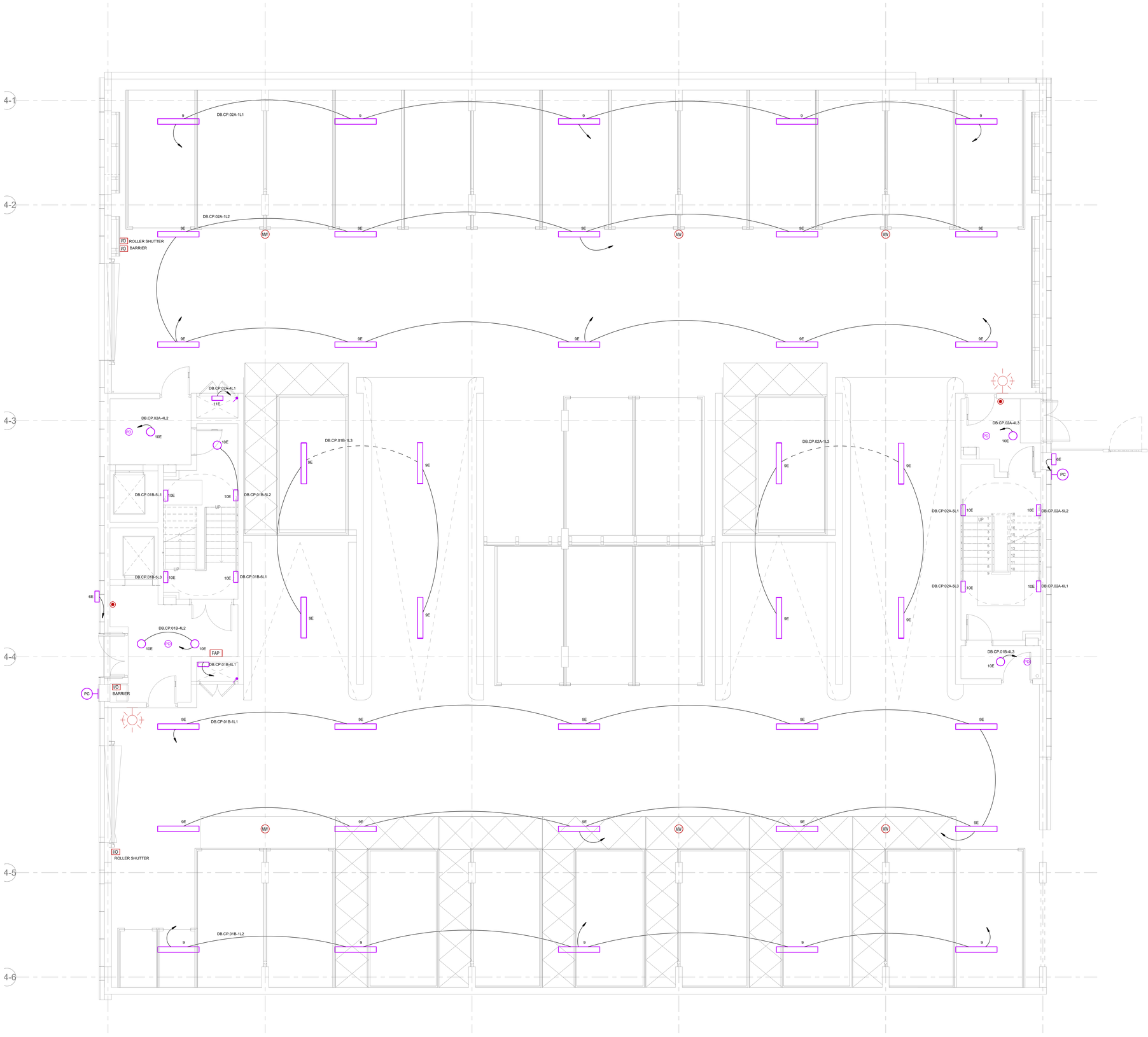
BRICK PAVED

LIGHTING REALITY

PROJECT NAME:	**THE CHARTER GRAVESEND**
PROJECT No:	
SCALE:	**1:250**
DATE:	**22 June 2022**
CALCULATION:	**Horizontal Illuminance (lux)**
DESIGNER:	**Mike Mills**
	Streetlighting Design using 6metre Columns with P863 lanterns all to KCC. Lighting Designed to BS5489 2020 Category P3.
PREPARED BY:	
FILE NAME:	**C:\Users\mike\Documents\The Charter S278 Gravesend New Lighting Revised 06-22.rtma**

Results Grid 1	
Eav	11.23
Emin	1.59
Emax	44.13
Emin/Emax	0.04
Emin/Eav	0.14

BS14534678



NOTES:

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6. ALL WORKS ARE TO BE IN ACCORDANCE WITH THE CURRENT RELEVANT REGULATIONS, BUILDING REGULATIONS, BRITISH STANDARDS, ACCEPTED CODES OF PRACTICE & TRADE ASSOCIATION REQUIREMENTS.
7. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO LIAISE WITH THE MAIN CONTRACTOR & ALL OTHER TRADES TO ENSURE THE CO-ORDINATION OF WORKS TO SUIT PROGRAM CONTRACTS & AVOID CLASHES.
8. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR COMMUNAL LIGHTING IN CORRIDORS TO BE CONTROLLED BY 24 HOUR PERMANENT CIRCUITS & PRESENCE DETECTORS , 25% OF THE LIGHTING SHALL BE PERMANENT AND 75% ACTIVE SWITCHING. MAIN ENTRANCES ARE TO BE 24 HOUR MAINTAINED .
9. PLEASE REFER TO ASSOCIATED LANDLORD DB SCHEDULE FOR CIRCUIT REFERENCES.
10. PLEASE REFER TO LIGHTING SCHEDULE FOR LUMANIRE SPECIFICATION.
11. EXTERNAL LIGHTING TO BE DEVELOPED AT STAGE 4 UPON RECEIPT OF LANDSCAPE ARCITECT'S DESIGN .
12. CAR PARK LIGHTING TO BE CONTROLLED BY SURFACE MOUTED DUAL CHANNEL LONG RANGE MICROWAVE DETECTORS. LIGHTING ABOVE MAIN ROADWAYS TO BE MAINTAINED 24 HOURS AT REDUCED LIGHT LEVELS DURING PERIODS OF INACTIVITY. LIGHTING LEVELS TO BE AGRREED WITH THE CLIENT. ALL OTHER LUMINAIRES TO CONTROLED BY PRSENCE DETECTION.

LEGEND:

K	KEY SWITCH (COMMUNAL CORRIDOR LIGHTING OVERRIDE SWITCH)
2	TWO-WAY LIGHT SWITCH
G	ONE WAY LIGHT SWITCH(G DENOTES NO. OF GANGS)
EM	EMERGENCY LIGHTING TEST SWITCH
6	SURFACE MOUNTED LED BULKHEAD LIGHT
7	RECESSED LED DOWNLIGHT
8	RECESSED ARCHITECTURAL LED DOWNLIGHT
9	LINEAR SURFACE MOUNTED LED LIGHT
10	SURFACE MOUNTED LED BULKHED LIGHT
E1	RECESSED EMERGENCY SPOT LIGHT
E2	SURFACE MOUNTED EMERGENCY TWIN SPOT
E3	SURFACE MOUNTED EMERGENCY SPOT LIGHT
11	SURFACE MOUNTED BULKHEAD
X1	SURFACE MOUNTED LED BULKHEAD LIGHT
X2	COLUMN MOUNTED LED LANTERN
PC	PHOTOCELL
EXIT	EXIT SIGN
PD	PRESENCE DETECTOR
MW	MICROWAVE DETECTOR (WITH DUAL CHANNEL CONTROL FUNCTION)
S	SMOKE DETECTOR
H	HEAT DETECTOR
	MANUAL CALL POINT
H	HEAT DETECTOR SOUNDER / STROBE
S	SMOKE DETECTOR/SOUNDER
G	GAS DETECTOR
H	FIRE ALARM SOUNDER/STROBE
S	SMOKE DETECTOR/SOUNDER/STROBE
	FIRE ALARM STROBE
FARP	FIRE ALARM REPEATER PANEL
FAP	FIRE ALARM PANEL
I/O	FIRE ALARM INPUT / OUTPUT DEVICE
AOVP	AUTOMATIC OPENING VENTILATION SYSTEM PANEL
AOV	AUTOMATIC OPENING VENT
OR	AOV OVERRIDE SWITCH
AC	ACCESS CONTROL
E	'E' DENOTES 3 HOUR EMERGENCY BATTERY BACK UP
CPV	CAR PARK VENTILATION SYSTEM PANEL
MCCP	MECHANICAL CONTROL CENTRE PANEL
GDP	GAS DETECTION ALARM PANEL
BS	BOOSTER PUMPSET
MSVS	MECHANICAL SMOKE VENTILLATION SYSTEM PANEL
FC	FIRE CURTAIN
SFS	SPRINKLER FLOW SWITCH
DH	DOOR HOLD

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RELATED DOCUMENTS

This drawing should be read with the appropriate Specification (s) and Schedule (s) and all other standard documentation.

WARNING

Do Not Scale from this drawing. Verify all dimensions, levels and structural details on site.

REVISIONS

P01	13.05.2025	INITIAL ISSUE - FOR APPROVAL
P02	10.06.2025	UPDATED TO LATEST ARCHITECTS GA

CLIENT

CURO CONSTRUCTION LTD
3-4 New Street
City of London
London EC2M 4TP

CONSULTING ENGINEER

EDC
2nd Floor, Westminster Tower
3 Albert Embankment
London SE1 7SP

CONTRACT

THE CHARTER
Gravesend Eastern Quarter

DRAWING TITLE

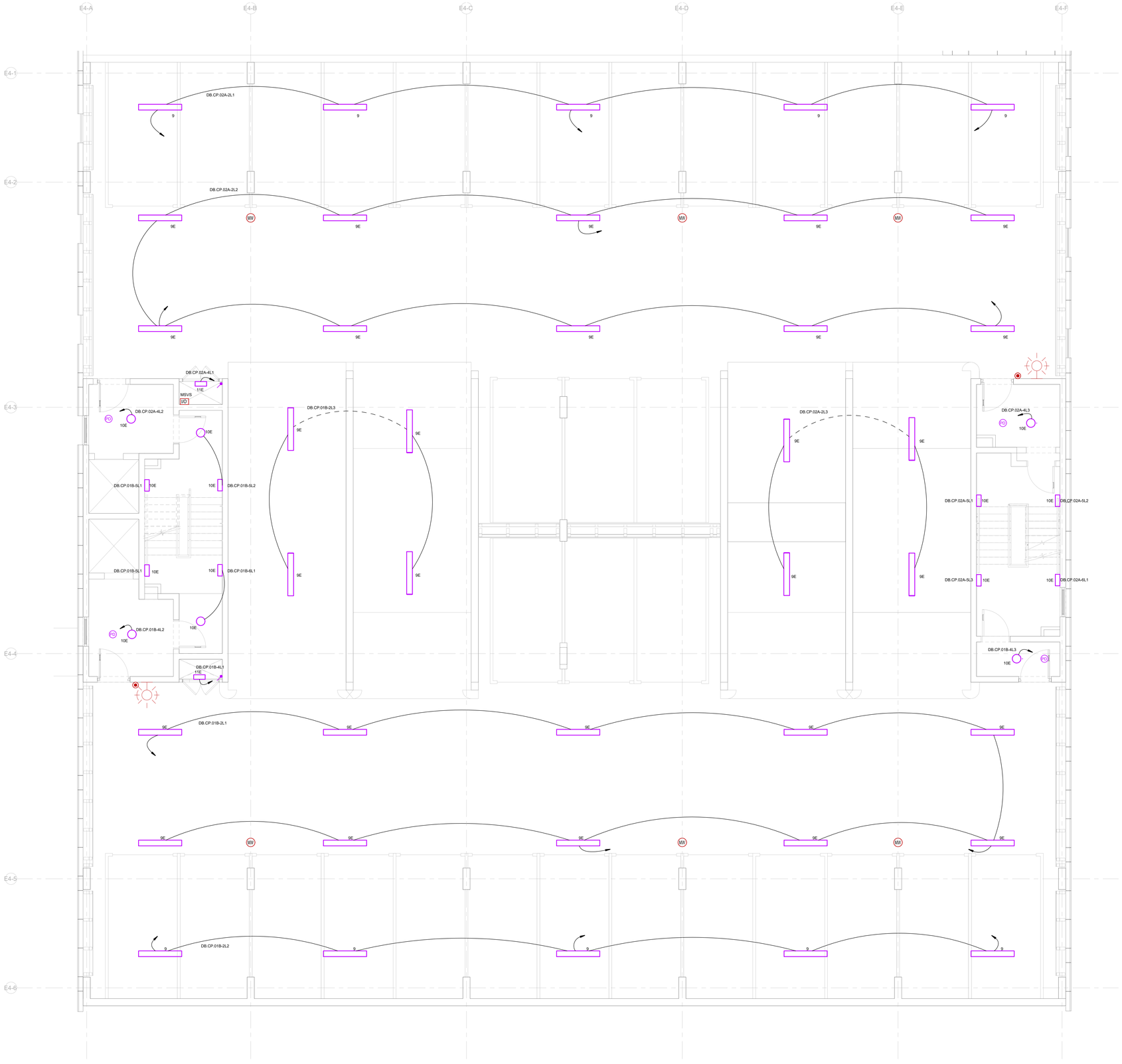
CAR PARK GROUND FLOOR
LIGHTING & FIRE ALARM SERVICES LAYOUT

watkins

Integrated Mechanical, Electrical & Plumbing Services

Watkins House, Leigh Road
Haine Business Park,
Ramsgate, Kent, CT12 5EU
TEL : 01843 852 277
info@watkins.co.uk, watkins.co.uk

DATE 13.05.2025	DRAWN JS
SCALE 1:50@A0	APP. RM
DRG No. CC1087-WTK-E4-00-DR-E-00001	Rev P02



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LEGEND:

K	KEY SWITCH (COMMUNAL CORRIDOR LIGHTING OVERRIDE SWITCH)	H	HEAT DETECTOR SOUNDER / STROBE
2	TWO-WAY LIGHT SWITCH	S	SMOKE DETECTOR/SOUNDER
G	ONE WAY LIGHT SWITCH(G DENOTES NO. OF GANGS)	G	GAS DETECTOR
EM	EMERGENCY LIGHTING TEST SWITCH		FIRE ALARM SOUNDER/STROBE
6	SURFACE MOUNTED LED BULKHEAD LIGHT	S	SMOKE DETECTOR/SOUNDER/STROBE
7	RECESSED LED DOWNLIGHT		FIRE ALARM STROBE
8	RECESSED ARCHITECTURAL LED DOWNLIGHT	FARP	FIRE ALARM REPEATER PANEL
9	LINEAR SURFACE MOUNTED LED LIGHT	FAP	FIRE ALARM PANEL
10	SURFACE MOUNTED LED BULKHED LIGHT	I/O	FIRE ALARM INPUT / OUTPUT DEVICE
E1	RECESSED EMERGENCY SPOT LIGHT	AOVP	AUTOMATIC OPENING VENTILATION SYSTEM PANEL
E2	SURFACE MOUNTED EMERGENCY TWIN SPOT	AOV	AUTOMATIC OPENING VENT
E3	SURFACE MOUNTED EMERGENCY SPOT LIGHT	OR	AOV OVERRIDE SWITCH
11	SURFACE MOUNTED BULKHEAD	AC	ACCESS CONTROL
X1	SURFACE MOUNTED LED BULKHEAD LIGHT	E	'E' DENOTES 3 HOUR EMERGENCY BATTERY BACK UP
X2	COLUMN MOUNTED LED LANTERN	CPV	CAR PARK VENTILATION SYSTEM PANEL
PC	PHOTOCELL	MCCP	MECHANICAL CONTROL CENTRE PANEL
EXIT	EXIT SIGN	GDP	GAS DETECTION ALARM PANEL
PD	PRESENCE DETECTOR	BS	BOOSTER PUMPSET
MW	MICROWAVE DETECTOR (WITH DUAL CHANNEL CONTROL FUNCTION)	MSVS	MECHANICAL SMOKE VENTILLATION SYSTEM PANEL
S	SMOKE DETECTOR	FC	FIRE CURTAIN
H	HEAT DETECTOR	SFS	SPRINKLER FLOW SWITCH
	MANUAL CALL POINT	DH	DOOR HOLD

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CONSULTING ENGINEER

EDC
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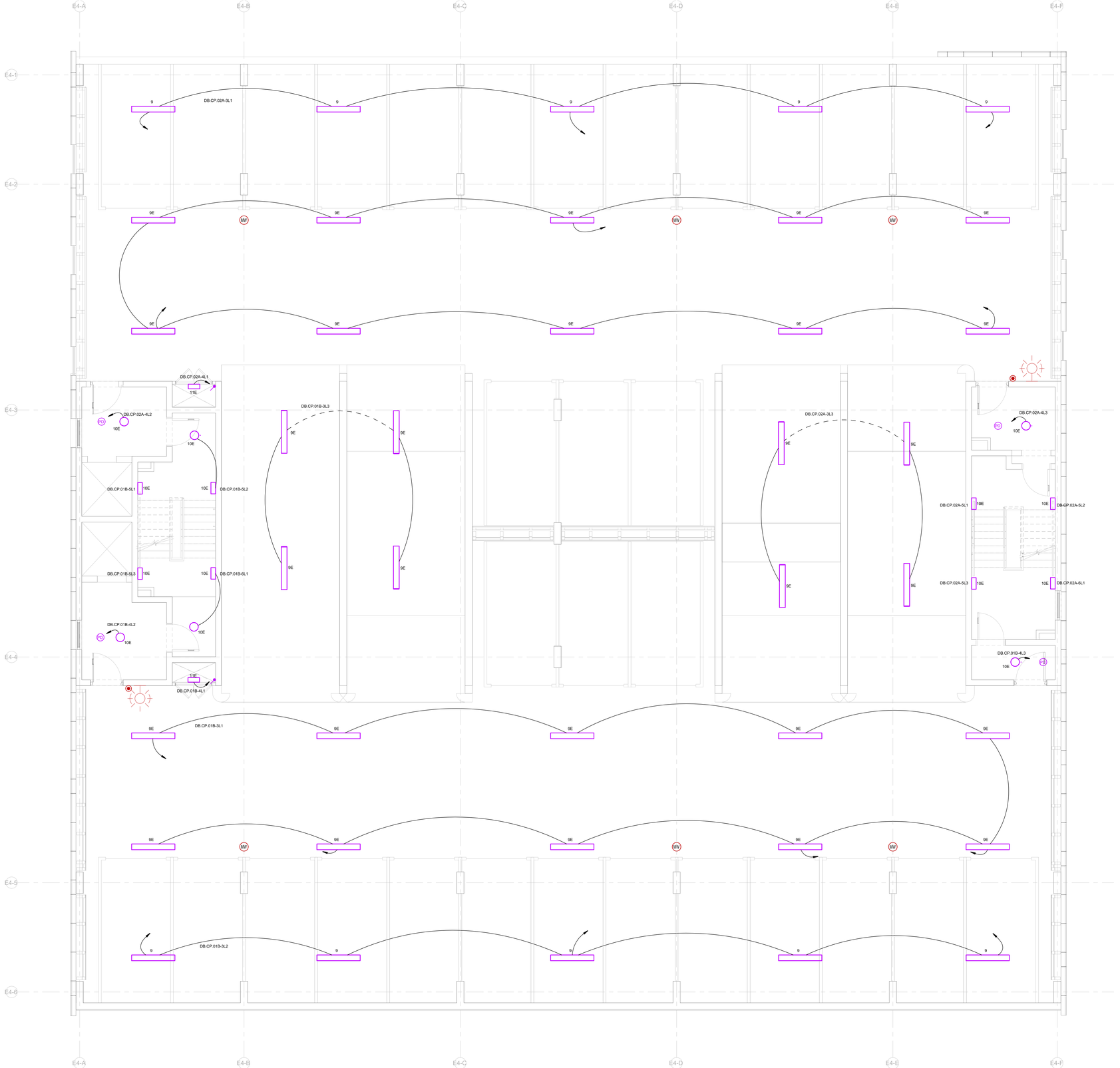
CAR PARK FIRST FLOOR
LIGHTING & FIRE ALARM SERVICES LAYOUT

watkins

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Watkins House, Leigh Road
Haine Business Park,
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TEL : 01843 852 277
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EDC
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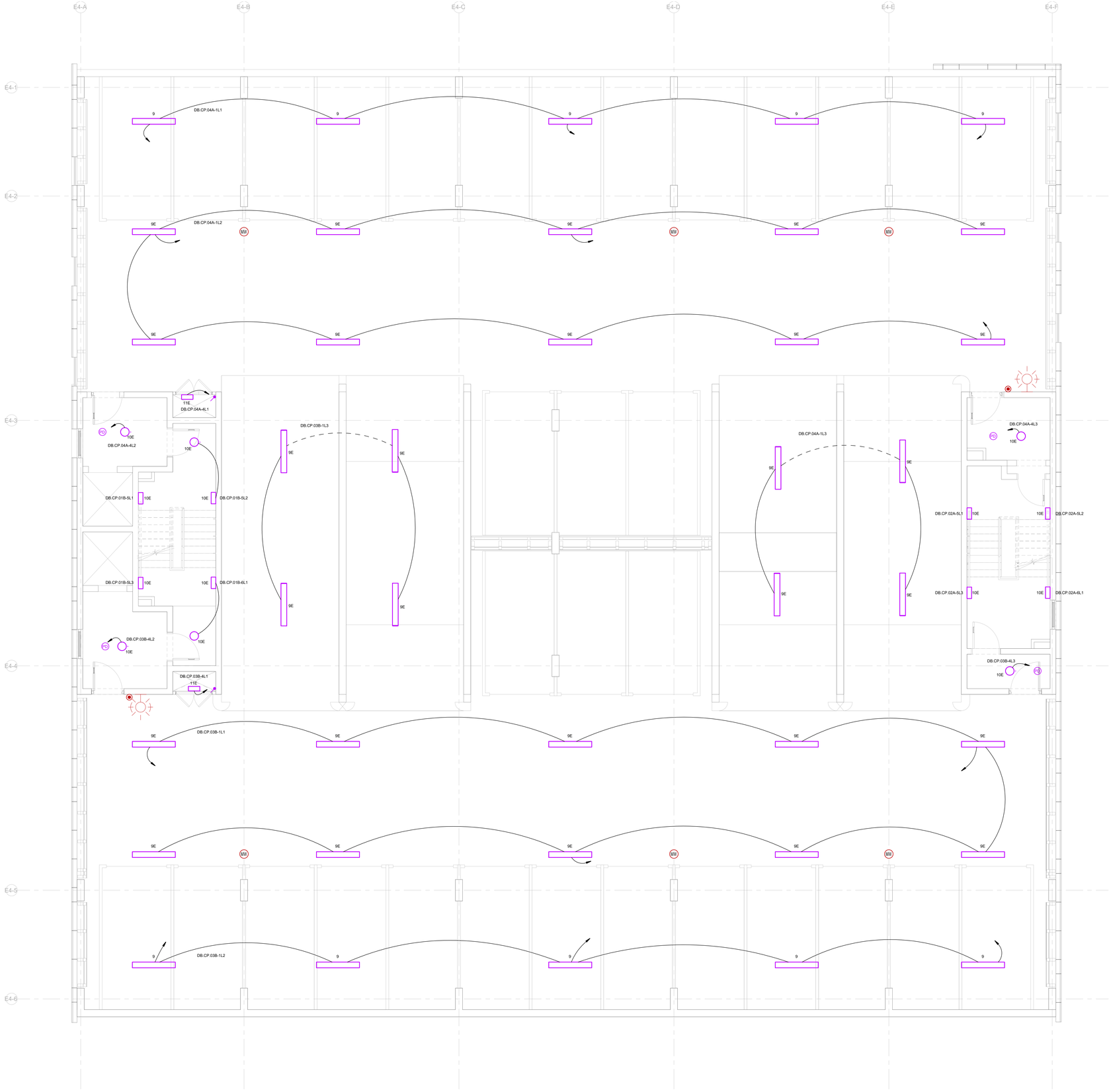
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H	HEAT DETECTOR
	MANUAL CALL POINT
HS	HEAT DETECTOR SOUNDER / STROBE
SS	SMOKE DETECTOR/SOUNDER
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AC	ACCESS CONTROL
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MSVS	MECHANICAL SMOKE VENTILLATION SYSTEM PANEL
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SFS	SPRINKLER FLOW SWITCH
DH	DOOR HOLD

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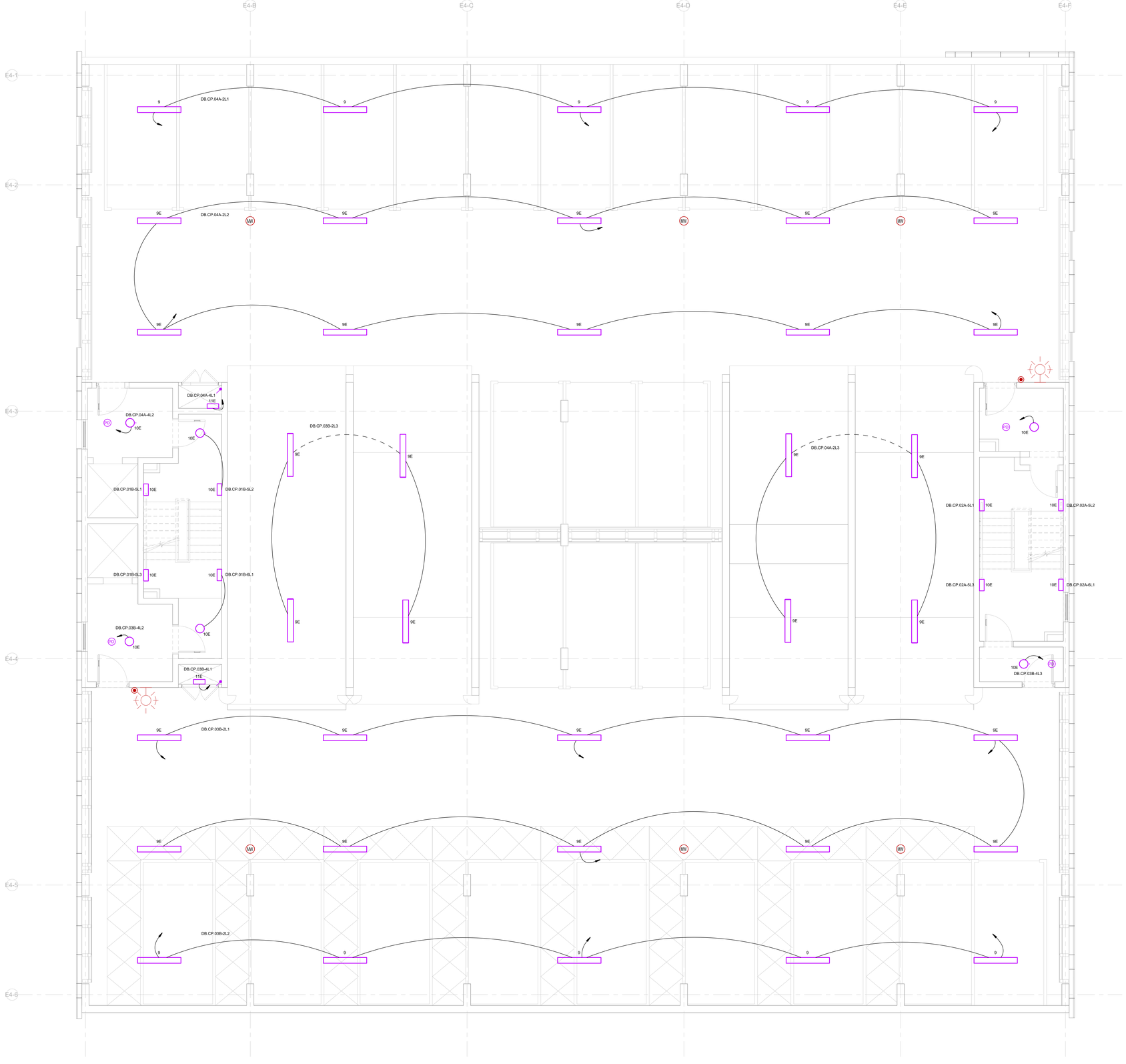
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CONTRACT
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DRAWING TITLE
CAR PARK THIRD FLOOR
LIGHTING & FIRE ALARM SERVICES LAYOUT

watkins
Integrated Mechanical, Electrical & Plumbing Services
Watkins House, Leigh Road
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TEL : 01843 852 277
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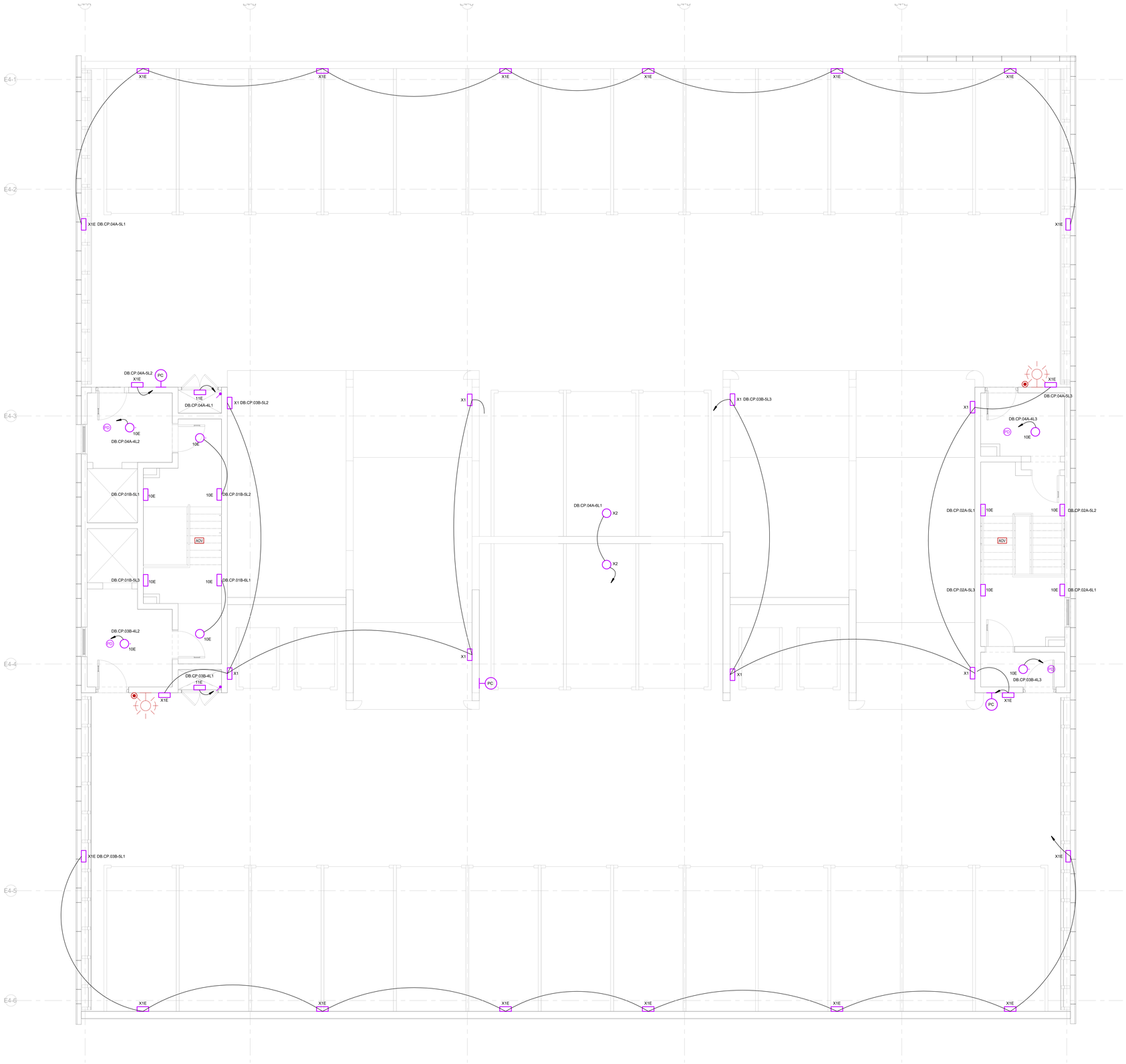
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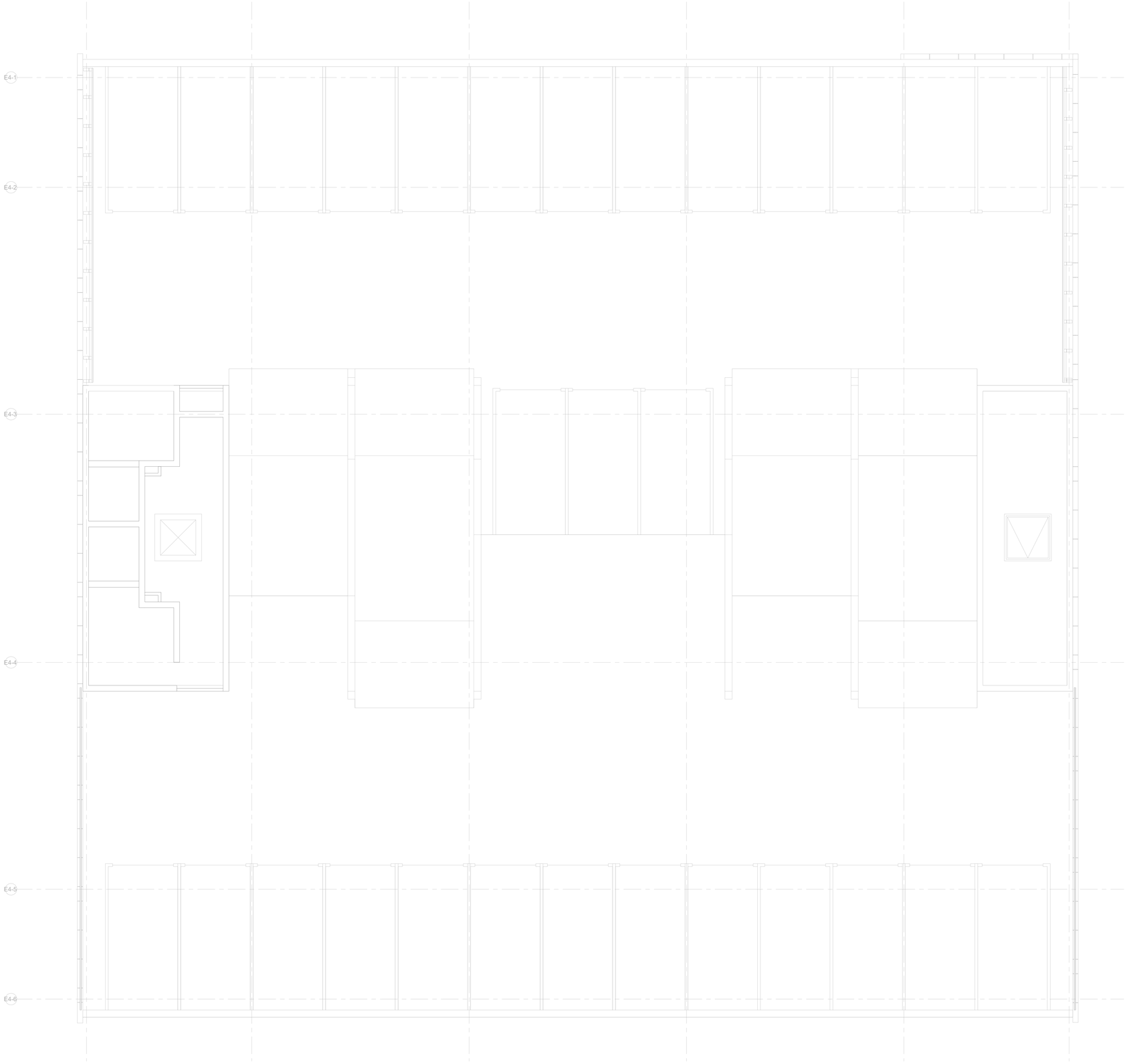
CONSULTING ENGINEER
EDC
2nd Floor, Westminster Tower
3 Albert Embankment
London SE1 7SP

CONTRACT
THE CHARTER
Gravesend Eastern Quarter

DRAWING TITLE
CAR PARK FIFTH FLOOR
LIGHTING & FIRE ALARM SERVICES LAYOUT

watkins
Integrated Mechanical, Electrical & Plumbing Services
Watkins House, Leigh Road
Haine Business Park,
Ramsgate, Kent, CT12 5EU
TEL : 01843 852 277
info@watkins.co.uk, watkins.co.uk

DATE 13.05.2025	DRAWN JS
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DRG No. CC1087-WTK-E4-05-DR-E-00001	Rev. P01



NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL DRAWINGS, SPECIFICATIONS, SCHEDULES ETC. PRODUCED BY THE MEP CONSULTANTS AND THE WIDER DESIGN TEAM.
2. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED.
3. DO NOT SCALE. WORK TO MEASURED DIMENSIONS ONLY. ALL DIMENSIONS & LEVELS ARE TO BE CHECKED BY THE CONTRACTOR ON SITE PRIOR TO WORK COMMENCING.
4. THE INFORMATION ON THIS DRAWING IS INDICATIVE ONLY OF THE DESIGN INTENT. THE CONTRACTOR SHOULD USE THIS AS A BASIS ONLY FOR THE DESIGN DEVELOPMENT & PRODUCTION OF WORKING DRAWINGS FOR SITE USE.
5. ANY DISCREPANCIES, ERRORS OR OMISSIONS ARE TO BE CLARIFIED WITH THE RELEVANT ENGINEER AT THE EARLIEST OPPOTUNITY.
6. ALL WORKS ARE TO BE IN ACCORDANCE WITH THE CURRENT RELEVANT REGULATIONS, BUILDING REGULATIONS, BRITISH STANDARDS, ACCEPTED CODES OF PRACTICE & TRADE ASSOCIATION REQUIREMENTS.
7. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO LIAISE WITH THE MAIN CONTRACTOR & ALL OTHER TRADES TO ENSURE THE CO-ORDINATION OF WORKS TO SUIT PROGRAM CONTRACTS & AVOID CLASHES.
8. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR COMMUNAL LIGHTING IN CORRIDORS TO BE CONTROLLED BY 24 HOUR PERMANENT CIRCUITS & PRESENCE DETECTORS , 25% OF THE LIGHTING SHALL BE PERMANENT AND 75% ACTIVE SWITCHING. MAIN ENTRANCES ARE TO BE 24 HOUR MAINTAINED .
9. PLEASE REFER TO ASSOCIATED LANDLORD DB SCHEDULE FOR CIRCUIT REFERENCES.
10. PLEASE REFER TO LIGHTING SCHEDULE FOR LUMANIRE SPECIFICATION.
11. EXTERNAL LIGHTING TO BE DEVELOPED AT STAGE 4 UPON RECEIPT OF LANDSCAPE ARCITECT'S DESIGN
12. CAR PARK LIGHTING TO BE CONTROLLED BY SURFACE MOUTED DUAL CHANNEL LONG RANGE MICROWAVE DETECTORS. LIGHTING ABOVE MAIN ROADWAYS TO BE MAINTAINED 24 HOURS AT REDUCED LIGHT LEVELS DURING PERIODS OF INACTIVITY. LIGHTING LEVELS TO BE AGREED WITH THE CLIENT. ALL OTHER LUMINAIRES TO CONTROLED BY PRSENCE DETECTION.

LEGEND:

K	KEY SWITCH (COMMUNAL CORRIDOR LIGHTING OVERRIDE SWITCH)	HD	HEAT DETECTOR SOUNDER / STROBE
2	TWO-WAY LIGHT SWITCH	S	SMOKE DETECTOR/SOUNDER
G	ONE WAY LIGHT SWITCH(G DENOTES NO. OF GANGS)	G	GAS DETECTOR
EM	EMERGENCY LIGHTING TEST SWITCH		FIRE ALARM SOUNDER/STROBE
6	SURFACE MOUNTED LED BULKHEAD LIGHT	S	SMOKE DETECTOR/SOUNDER/STROBE
7	RECESSED LED DOWNLIGHT		FIRE ALARM STROBE
8	RECESSED ARCHITECTURAL LED DOWNLIGHT	FARP	FIRE ALARM REPEATER PANEL
9	LINEAR SURFACE MOUNTED LED LIGHT	FAP	FIRE ALARM PANEL
10	SURFACE MOUNTED LED BULKHED LIGHT	I/O	FIRE ALARM INPUT / OUTPUT DEVICE
E1	RECESSED EMERGENCY SPOT LIGHT	AOVP	AUTOMATIC OPENING VENTILATION SYSTEM PANEL
E2	SURFACE MOUNTED EMERGENCY TWIN SPOT	AOV	AUTOMATIC OPENING VENT
E3	SURFACE MOUNTED EMERGENCY SPOT LIGHT	OR	AOV OVERRIDE SWITCH
11	SURFACE MOUNTED BULKHEAD	AC	ACCESS CONTROL
X1	SURFACE MOUNTED LED BULKHEAD LIGHT	E	'E' DENOTES 3 HOUR EMERGENCY BATTERY BACK UP
X2	COLUMN MOUNTED LED LANTERN	CPV	CAR PARK VENTILATION SYSTEM PANEL
PC	PHOTOCELL	MCCP	MECHANICAL CONTROL CENTRE PANEL
EXIT	EXIT SIGN	GDP	GAS DETECTION ALARM PANEL
PD	PRESENCE DETECTOR	BS	BOOSTER PUMPSET
MW	MICROWAVE DETECTOR (WITH DUAL CHANNEL CONTROL FUNCTION)	MSVS	MECHANICAL SMOKE VENTILLATION SYSTEM PANEL
S	SMOKE DETECTOR	FC	FIRE CURTAIN
H	HEAT DETECTOR	SFS	SPRINKLER FLOW SWITCH
	MANUAL CALL POINT	DH	DOOR HOLD

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RELATED DOCUMENTS
This drawing should be read with the appropriate Specification (s) and Schedule (s) and all other standard documentation.

WARNING
Do Not Scale from this drawing. Verify all dimensions, levels and structural details on site.

REVISIONS

P01	13.05.2025	INITIAL ISSUE - FOR APPROVAL

CLIENT

CURO CONSTRUCTION LTD
3-4 New Street
City of London
London EC2M 4TP

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EDC
2nd Floor, Westminster Tower
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London SE1 7SP

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Touchstone

Part of Places for People

Appendix 7
Refuse Storage Plan



Cumulative Street-Level Plan

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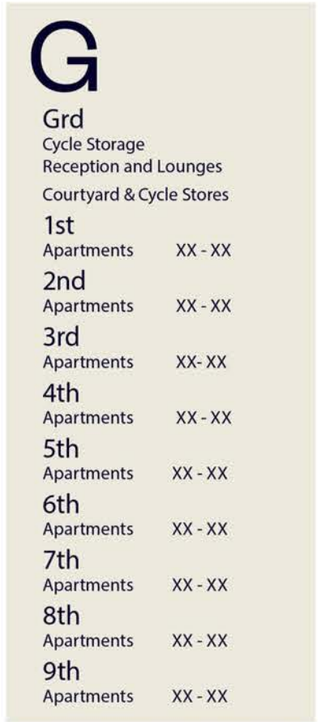
Touchstone

Part of Places for People

Appendix 8
Wayfinding Plans

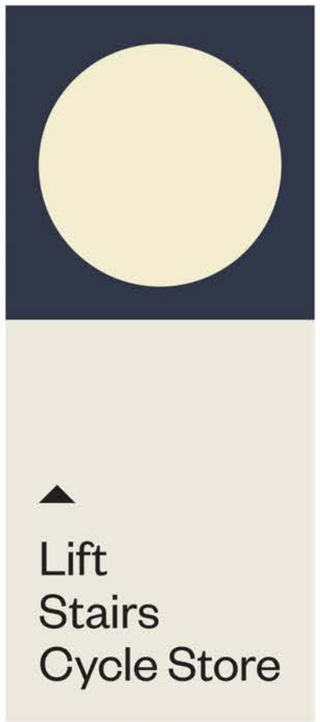
A, C, D and E Typical Internal Wayfinding

Each floor to has a unique shape and colour linking back to the brand concept



A. Directory

Powder Coated RAL: TBC
Textured Aluminium



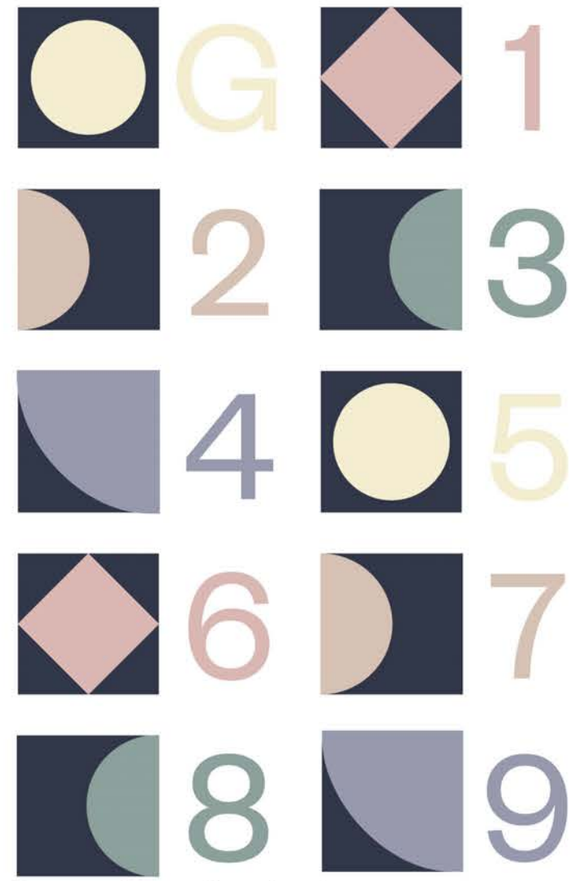
C. Directions



D. Flat numbering



E. Room Naming



Proposed artwork per level

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