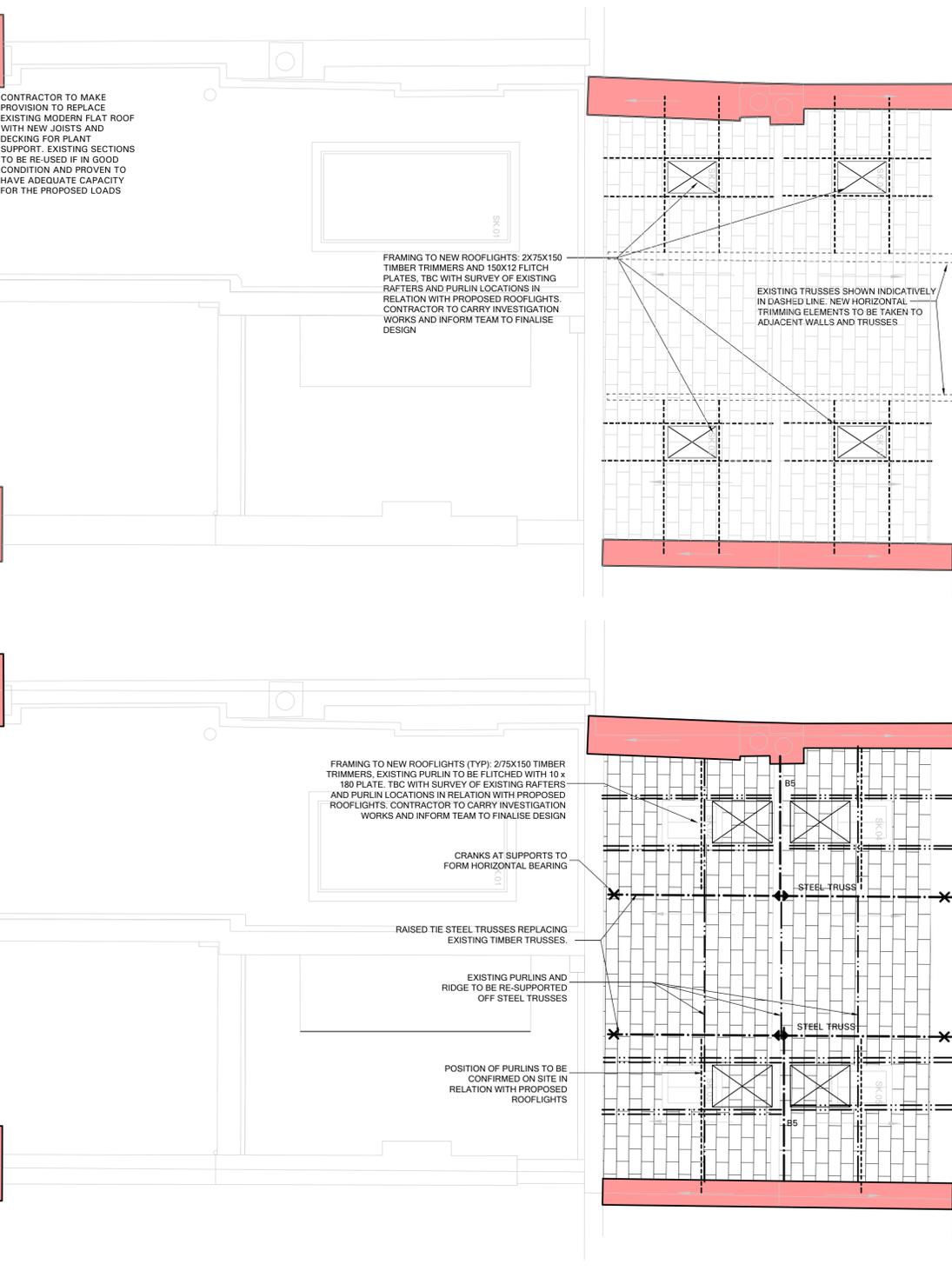
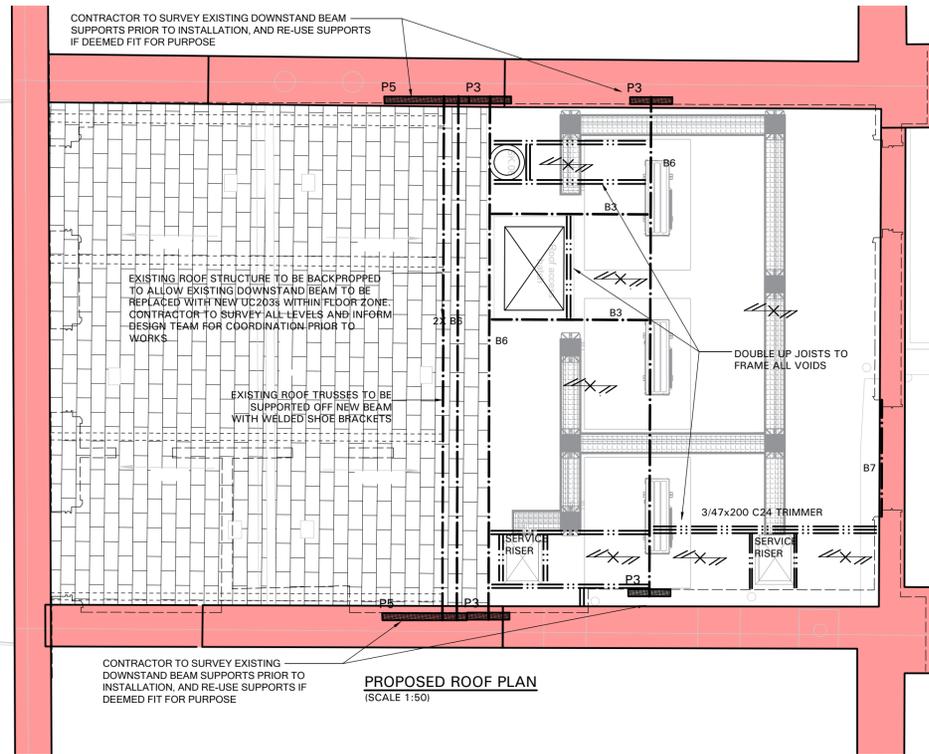
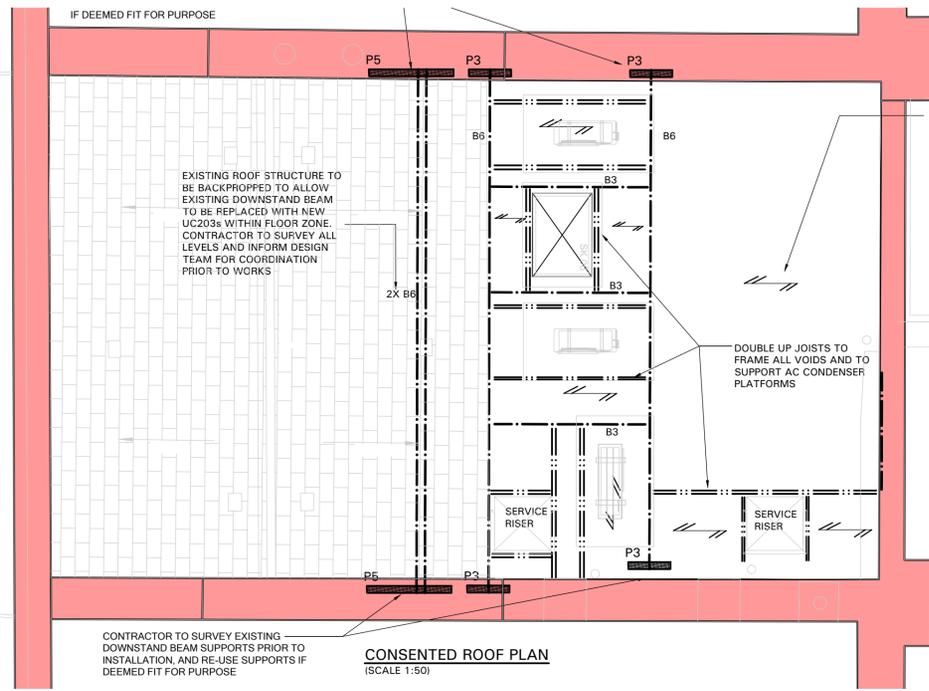


ROOF PLAN



- NOTES:
- REFER TO MBP'S SPECIFICATIONS AND GENERAL NOTES
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE REMAINING STRUCTURAL DRAWINGS, TRIAL PIT LOGS AND DESIGN STATEMENT
 - INSTALL STRAPS AT ALL LEVELS BETWEEN TIMBER FLOOR AND MASONRY WALLS. REFER TO DETAILS
 - EXISTING LINTELS AND SUPPORT OF INTERNAL BLOCKWORK/BRICKWORK WALLS TO BE INSPECTED AND REVIEWED ON SITE - ALLOW FOR MAKING GOOD OF EXISTING SUPPORTS
 - DEMOLITION AND TEMPORARY WORKS, WATERPROOFING, FIRE STRATEGY, REINFORCEMENT DETAILING AND BENDING SCHEDULES BY OTHERS
 - CONTRACTOR TO INFORM DESIGN TEAM OF DISCREPANCIES FOUND ON SITE RELATED TO DESIGN ASSUMPTIONS
 - ALL NON STRUCTURAL WALLS AND PARTITIONS TO HAVE DEFLECTION HEADS TO UNDERSIDE OF FLOOR ABOVE
 - CONTRACTOR TO ADD NOGGINS AT THIRDS OF SPAN WHERE NON EXISTING. CONTRACTOR TO INFILL EXISTING OBSOLETE NOTCHES IN JOISTS TO BE RETAINED WITH BLOCKING AND GLUE
 - CONTRACTOR TO SURVEY ALL EXISTING WET AREAS (EG. BATHROOMS AND KITCHENS) FOR TIMBER ROT. ALLOW FOR REPLACEMENT OF 30% OF EXISTING JOISTS. TO BE CONFIRMED AFTER SURVEY.
 - PLYWOOD TO BE SCREWED TO MAIN JOISTS WHERE EXISTING FLOORBOARDS ARE REMOVED. WHERE LEVELING FURRINGS ARE USED, THE SCREWS USED MUST ENSURE BOARD/JOIST CONNECTION THROUGH TO MAIN JOISTS.
 - CONTRACTOR TO INVESTIGATE CONDITION OF ALL EXISTING STEEL ELEMENTS TO BE RETAINED. ALLOW FOR CORROSION TREATMENT AFTER SURVEY
 - CONTRACTOR TO EXECUTE TRIAL PITS TO CONFIRM FOUNDATION DEPTH AND GEOMETRY AND WATER LEVELS PRIOR TO WORKS
 - CONTRACTOR TO MAKE PROVISION TO REPAIR 30% OF EXISTING BRICKWORK WITH STANDARD REPOINTING - TO BE CONFIRMED ON SITE
 - ALL OBSOLETE NOTCHES IN JOISTS ARE TO BE INFILLED WITH SOLID BLOCKING, GLUED. REFER TO MBP DETAILS FOR RULES FOR HOLES AND NOTCHING
 - ANY BWIC NOT SHOWN IN THE STRUCTURAL DRAWINGS ARE TO BE CONFIRMED WITH STRUCTURAL ENGINEER. MAKE PROVISION TO SLEEVES/ADD LINTELS TO EXECUTE OPENINGS THROUGH STRUCTURAL WALLS/FLOORS.
 - STRENGTHENING WORKS ARE TO BE COORDINATED WITH THE UNDERFLOOR HEATING. IN SOME AREAS FLITCHING MAY BE REPLACED BY DOUBLING UP THE EXISTING JOISTS

CONCRETE		
TYPE	CLASS/DESIGNATED CONCRETE	SPEC. REF.
GENERAL	RC 32/40	E10
IN CONTACT WITH SOIL	DS-3	E10
MASS CONCRETE	GEN1	E10
BLINDING	GEN1	E10

STEEL		
TYPE	CLASS/GRADE	SPEC. REF.
GENERAL	S355	G10
BOLTS	8.8	G10

TIMBER		
TYPE	CLASS/GRADE	SPEC. REF.
NEW	C24	G20
PLYWOOD	I/I	G20

LEGEND:

	EXISTING STRUCTURE TO BE RETAINED		EXISTING WALLS BELOW		SPAN OF 50x150 GRADE C24 TIMBER JOISTS @ 400 CRS w/ 2x12mm PLY ON TOP AND NOGGINS AT THIRDS OF SPAN	ABBREVIATIONS:
	NEW BRICKWORK		COLUMN REFERENCE. REFER TO SCHEDULES FOR TYPE AND SIZE		SPAN OF 50x250 GRADE C24 TIMBER JOISTS @ 300 CRS w/ 2x12mm PLY ON TOP AND NOGGINS AT THIRDS OF SPAN	SFL - STRUCTURAL SLAB LEVEL
	NEW LOAD-BEARING BLOCKWORK		NEW LINTEL & REFERENCE. REFER TO SCHEDULES FOR TYPE AND SIZE		FLITCH ELEMENT - REFER TO PLAN FOR SIZES	FINISHED FLOOR LEVEL
	NEW STEEL BEAM & REFERENCE. REFER TO SCHEDULES FOR TYPE AND SIZE		NEW TIMBER MEMBER, JOIST/RAFTER ETC.		SPAN OF EXISTING TIMBER JOISTS - REFER TO PLAN FOR SIZES	TOP - TOP OF FLOOR
	EXISTING STEEL BEAM, REFER TO PLANS FOR SIZES		SPAN OF EXISTING TIMBER JOISTS - REFER TO PLANS FOR SIZES		EXISTING TIMBER JOISTS, REFER TO PLANS FOR SIZES	TOB - TOP OF BEAM
	NEW CONCRETE PADSTONE. REFER TO SCHEDULE FOR SIZES		SPAN OF 50x200 GRADE C24 TIMBER JOISTS @ 400 CRS w/ 2x12mm PLY ON TOP AND NOGGINS AT THIRDS OF SPAN		EXISTING TIMBER JOISTS, REFER TO PLANS FOR SIZES	TOPC - TOP OF PILECAP
	NEW MASS CONCRETE UNDERPINNING CAST IN 1.0m LENGTHS TO 1-3-5-2-4 SEQUENCE		EXISTING TIMBER JOISTS, REFER TO PLANS FOR SIZES		EXISTING TIMBER JOISTS, REFER TO PLANS FOR SIZES	TOS - TOP OF STEEL
			EXISTING TIMBER JOISTS, REFER TO PLANS FOR SIZES		EXISTING TIMBER JOISTS, REFER TO PLANS FOR SIZES	TOW - TOP OF WALL
			EXISTING TIMBER JOISTS, REFER TO PLANS FOR SIZES		EXISTING TIMBER JOISTS, REFER TO PLANS FOR SIZES	TOJ - TOP OF JOIST
			EXISTING TIMBER JOISTS, REFER TO PLANS FOR SIZES		EXISTING TIMBER JOISTS, REFER TO PLANS FOR SIZES	CB - COLUMN BELOW
			EXISTING TIMBER JOISTS, REFER TO PLANS FOR SIZES		EXISTING TIMBER JOISTS, REFER TO PLANS FOR SIZES	WB - WALL BELOW

BEAM SCHEDULE		
REF	SIZE	COMMENTS
B1	203x133x30 UKB	* DENOTES TOP PLATE TO SUPPORT BRICKWORK
B2	254x254x73 UKC	* DENOTES TOP PLATE TO SUPPORT BRICKWORK
B3	200x90x30 UKPFC	
B4	203X203X46 UKC	
B5	150x90x24 UKPFC	
B6	203X203X60 UKC	
B7	152X152X37 UKC	

LINTELS	
CLEAR SPAN OF OPENING	SIZE
UP TO 1m	100x100DP PRECAST CONCRETE LINTEL
1m TO 1.8m	100x140DP PRECAST CONCRETE LINTEL
1.8m TO 2.4m	100x215DP PRECAST CONCRETE LINTEL

NOTES:
 * NUMBER OF LINTEL TO SUIT WALL WIDTH, E.G. 2150 WALL REQUIRES 2No. LINTELS.
 * FIRE RATING REQUIREMENTS BY OTHERS

PADSTONE SCHEDULE		
REF	SIZE	COMMENTS
P1	225x350x150dp	MASS CONCRETE
P2	100X350X150dp	MASS CONCRETE
P3	100X600X300dp	MASS CONCRETE
P4	225X225X150dp	MASS CONCRETE
P5	100X1200X300	REINFORCED CONCRETE

COLUMN SCHEDULE		
REF	SIZE	COMMENTS
C1	260X90X35 PFC	
C2	60X60X5 RHS	HOT ROLLED
C3		

- NOTES:**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
 - FOR SETTING OUT REFER TO ARCHITECT'S DRAWINGS.
 - ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
 - DO NOT SCALE FROM THE DRAWING OR THE COMPUTER DIGITAL DATA. ONLY FIGURED DIMENSIONS TO BE USED.

Project Title 55 CUMBERLAND TERRACE, LONDON NW1 4HJ	Scale @ A1 1:50	Date APR	Drawn MI	Checked MI	MBP Michael Barclay Partnership consulting engineers
Drawing Status S4 - SUITABLE FOR STAGE APPROVAL	Project Drawing ID 8045-MBP-XX-RF-DR-S-0704	Revision P01	Chronicle House, 72 - 78 Fleet Street London EC4Y 1HY T 020 7240 1191 E london@mbp-uk.com W mbp-uk.com		
Drawing Title CONSENTED & PROPOSED ROOF LEVEL GENERAL ARRANGEMENTS	Project Originator Volume Level Type Risk Number				