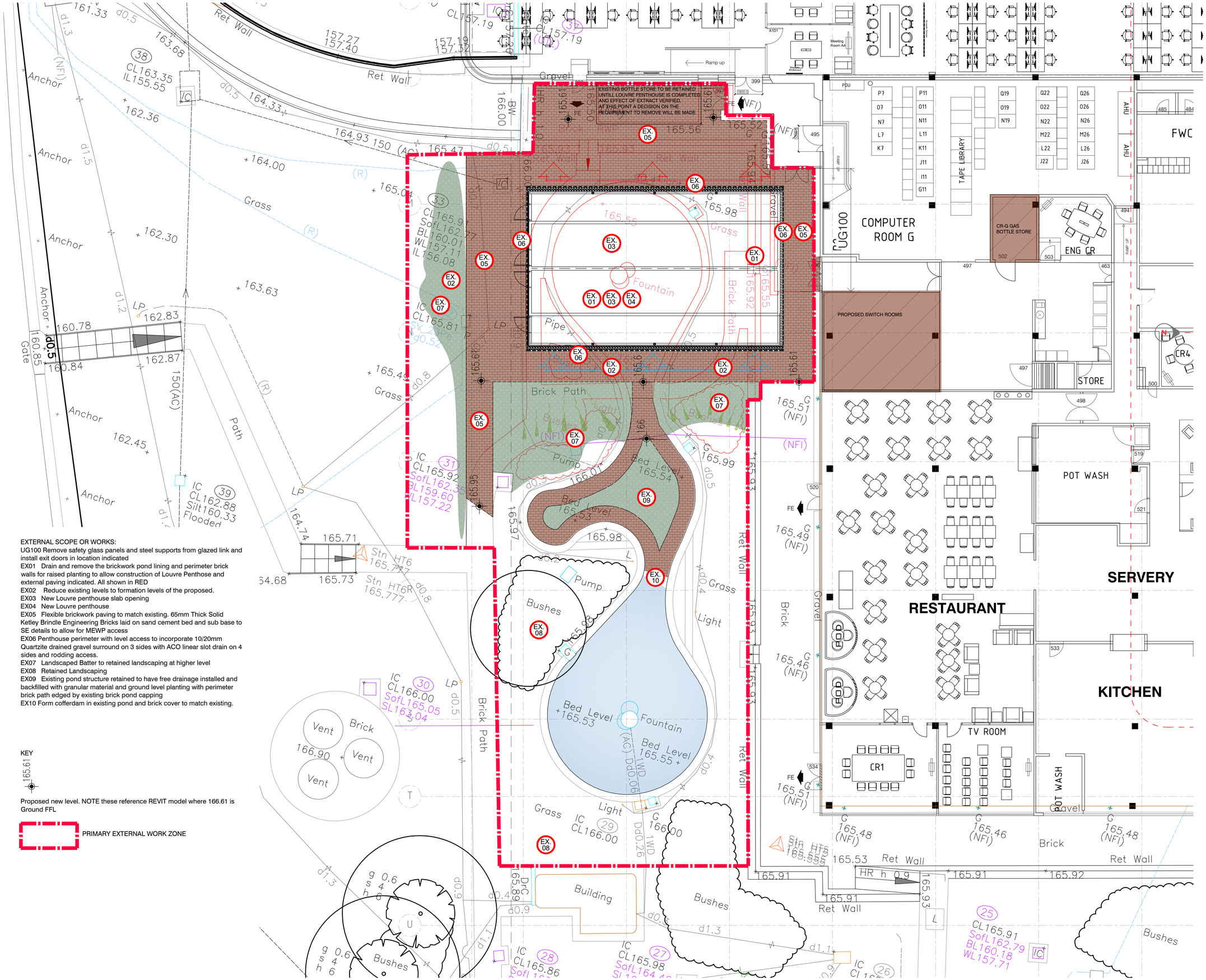


EXTERNAL SCOPE OR WORKS:
UG100 Remove safety glass panels and steel supports from glazed link and install exit doors in location indicated
EX01 Drain and remove the brickwork pond lining and perimeter brick walls for raised planting to allow construction of Louvre Penthouse and external paving indicated. All shown in RED
EX02 Reduce existing levels to formation levels of the proposed.
EX03 New Louvre penthouse slab opening
EX04 New Louvre penthouse
EX05 Flexible brickwork paving to match existing. 65mm Thick Solid Ketley Brindle Engineering Bricks laid on sand cement bed and sub base to SE details to allow for MEWP access
EX06 Penthouse perimeter with level access to incorporate 10/20mm Quartzite drained gravel surround on 3 sides with ACO linear slot drain on 4 sides and rodding access.
EX07 Landscaped Batter to retained landscaping at higher level
EX08 Retained Landscaping
EX09 Existing pond structure retained to have free drainage installed and backfilled with granular material and ground level planting with perimeter brick path edged by existing brick pond capping
EX10 Form cofferdam in existing pond and brick cover to match existing.

KEY

165.61

Proposed new level. NOTE these reference REVIT model where 166.61 is Ground FFL

PRIMARY EXTERNAL WORK ZONE

## RESIDUAL RISK

Wherever possible unnecessary risk is designed out of these proposals. Where residual risk remains this is assessed and identified on the relevant drawings with this symbol. Refer to the note and the relevant measures in the Health + Safety documentation

GES NOTES.
These are not exhaustive, refer to current Global Engineering Standards.
Generally:

Noise shall not exceed the local office GES maximum permissible NR requirements. Where noise from LEC equipment is likely to cause nuisance, consider using proprietary acoustic LECs with acoustic baffles and ventilation fans ).
The acoustic performance of the air delivery systems and related components has become an increasingly key factor with regards to comfort in office space.
The designer shall ensure that the maximum permissible noise criteria as stated within the table below are adhered to when designing air conditioning systems.
The designer shall obtain sufficient information to assess room absorption characteristics when calculating room noise levels.
The designer shall give due consideration to maximum permissible noise levels externally when selecting external plant and be aware of any statutory approvals
required regarding compliance with acoustic criteria.
Table D3000060-1 – Room Maximum NR Ratings

| Description | NR Rating |
|---|---|
| Cellular Office | 35 |
| Open Plan Office | 38 |
| Meeting Room | 35 |
| Conference Room | 35 |
| Training Room | 35 |
| Video Conferencing Room | 30 |
| Break Out Areas | 38 |
| Dining Space / Canteen | 40 |
| Trading Room | 38 |
| IT Equipment Rooms (Note 1) | 45 |
| Entrance Hall | 40 - 45 |
| Reception | 40 - 45 |
| Toilet Areas | 40 |

Within IT Equipment rooms the target NR level is NR45. Where this NR level is not achievable and significantly higher noise levels are permitted within IT environments appropriate Health and Safety compliance measures shall be implemented including the high noise level warnings and appropriate protection measures in place.
The cooling plant design maximum cooling rate shall be achieved at the maximum ambient conditions to suit the location. Each unit shall be capable of running continuously at the lowest step of cooling capacity without any adverse effect.
Dependent on location of the facility, the opportunity of free cooling shall be maximised.
The design, construction, materials and finishes of all equipment shall be suitable for the location, climatic conditions and operating conditions to which the installation will be exposed. The designer shall undertake a risk assessment of the local
environmental conditions and apply appropriate protective upgrades to plant and equipment. For example, buildings with external plant exposed to sea air conditions shall be enhanced to a marine specification.
Rotating and reciprocating components shall be dynamically balanced.
Unless otherwise indicated each unit shall be provided as a fully packaged, factory assembled and tested unit, constructed on a robust frame and casing. Where necessary include for the dismantling and rebuilding of the equipment by the manufacturer in position on site.
The frame supports and casing of the units shall be constructed of material which is either corrosion resistant or made proof against corrosion after manufacture.
The chiller installation shall comply with the manufacturer's recommendations regarding installation (including clearances), operation, and maintenance.
Major components shall be readily accessible for safe maintenance and arranged to facilitate removal without disturbing other system components. Plant shall be arranged to ensure tube removal or maintenance is unobstructed. Units shall be fully
accessible for thorough cleaning.
The location of air cooled units relative to the building shall not impede air flow through the unit. Where possible unit coils shall be protected from direct sunlight.
Airflow through the unit(s) shall not be restricted by associated water distribution pipework or other services and plant. Airflow through the unit(s) shall be in accordance with manufacture's recommendations.
Unit(s) shall perform within the acoustic requirements as indicated. The acoustic performance shall be achieved by either selection of equipment to ensure that it erforms at a noise level below that specified, or by the provision of an acoustic
protection package to ensure that the acoustic requirements are achieved.
The unit(s) shall be capable of meeting the required duty without exceeding the specified noise level requirements as stated.
Pipework and equipment carrying refrigerant shall be insulated. Insulation shall be manufactured without the use of CFCs, HFCs or HCFCs, be formaldehyde free and be resistant to mould and mildew.
All insulation installed outdoors shall wherever practical be mechanically protected or where this is not practical, apply two coats of weather resistant coatings.
Metal parts of coolers shall be bonded to earth.
Lightning protection shall be provided for external unit(s).

| | | |
|---|---|---|
| T1 | ISSUED FOR CLIENT APPROVAL | 28.06.2024 |
| P2 | ACOUSTIC NOTES ADDED. REVISION TO LANDSCAPE FOLLOWING CLIENT INPUTS. SCOPING NOTES ADDED | 05.06.2024 |
| P1 | PRELIMINARY DRAWING ISSUE \| by CJC | 23.04.2024 |

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Revision

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SYGDC

TANKERSLEY

# Louvre Penthouse B
## Proposed External Works Layout

| A1 Scale | A3 Scale | Date | Drawn By | |
|---|---|---|---|---|
| 1:100 | 1:200 | 05.06.2024 | MJW | RIBA Chartered Practice |

| Project Number | Drawing Number | Revision |
|---|---|---|
| 27708 | A(98)03 | T1 |

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