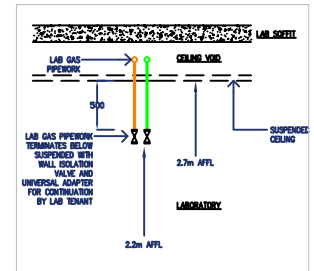
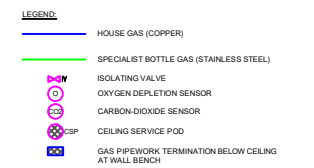
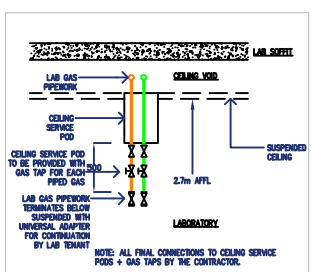


- NOTES:**
- DO NOT SCALE FROM THIS DRAWING
  - ALL LAB GAS SERVICES ARE CONTRACTOR DESIGN PORTION (CDP).
  - IN THE ABSENCE OF ANY LAB EQUIPMENT DETAILS THE GAS DESIGN SHALL BE BASED ON THE FOLLOWING FLOW TO EACH/EVERY CSP
    - COMPRESSED AIR: 60-80 LITRES/ANM.
    - NITROGEN: 8-10 LITRES/ANM.
    - OXYGEN: 8-10 LITRES/ANM.
    - CARBON-DIOXIDE: 8-10 LITRES/ANM.
  - FOR LAB GAS PIPWORK SIZING, 50% DIVERSITY CAN BE APPLIED WHERE APPROPRIATE.
  - THE CONTRACTOR MUST APPOINT AN APPROPRIATELY QUALIFIED SPECIALIST TO UNDERTAKE THE DESIGN.
  - ANY LAB GASES SYSTEM STORED INTERNALLY MUST BE HOUSED FOR EACH FLOOR WITH PROPRIETARY FIRE-RATED ENCLOSURES
  - 2 NO. GAS DETECTION CONTROL PANELS SHALL BE PROVIDED FOR EACH FLOOR: ONE FOR THE NORTH DENISE AND ANOTHER FOR THE SOUTH DENISE.
  - EACH LABORATORY WILL HAVE A BEACON SOUNDER AT THE ENTRANCE TO AND WITHIN THE LABORATORY AREA ALONG WITH OXYGEN AND CARBON DIOXIDE SENSORS. IN THE EVENT OF SENSORS REACH AMBER OR RED SET POINTS, THE BEACON SOUNDERS WILL BE ACTIVATED AND THE GAS SUPPLY AT THE MANIFOLD WILL BE AUTOMATICALLY ISOLATED.
  - EACH GAS BOTTLE STORE WILL HAVE A BEACON SOUNDER AT THE ENTRANCE TO AND WITHIN THE LABORATORY AREA ALONG WITH OXYGEN AND CARBON DIOXIDE SENSORS. IN THE EVENT OF SENSORS REACH AMBER OR RED SET POINTS, THE BEACON SOUNDERS WILL BE ACTIVATED AND THE GAS SUPPLY AT THE MANIFOLD WILL BE AUTOMATICALLY ISOLATED.
  - ALL GAS DETECTION WIRING WILL BE UNDERTAKEN BY THE LAB GAS SPECIALIST



DETAIL 'A': LAB GAS PIPWORK TERMINATION ABOVE BENCH (NTS)



DETAIL 'B': LAB GAS PIPWORK CEILING SERVICE POD TERMINATION (NTS)

S4-P02	10/04/2024	STAGE 3 CAT-B ISSUE	CON. AG.
S4-P01	14/02/2024	STAGE 3 CAT-B ISSUE	CON. AG.
SUT-REV	DATE	DESCRIPTION	DRN. CHK.
REVISION:			

**STAGE 3**

THIS DRAWING IS COPYRIGHT. DO NOT SCALE FROM DRAWING. THE CONTRACTOR AND THEIR SUB-CONTRACTORS ARE TO VERIFY ALL DIMENSIONS ON SITE BEFORE MAKING SHOP DRAWINGS OR COMMENCING MANUFACTURE.

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**PROJECT INFORMATION**

CLIENT: OXFORD VICTORIA HOUSE DEVELOPMENT LTD  
PROJECT: LONDON, WC1B 4DA

**DRAWING INFORMATION**

DRAWING TITLE: MECHANICAL SERVICES  
FIRST FLOOR  
CAT-B LAB GAS LAYOUT

DESIGNED BY	AG	DATE	Jan. 2024
DRAWN BY	AG	KJT JOB No.	
SCALE	1:100 @ A1		
JOB CODE	L3221	ORIGINAL LEVEL-TYPE-DRAWING NUMBER	L3221
L3221	KJT-02-01-DR-M-5410		S4-P02