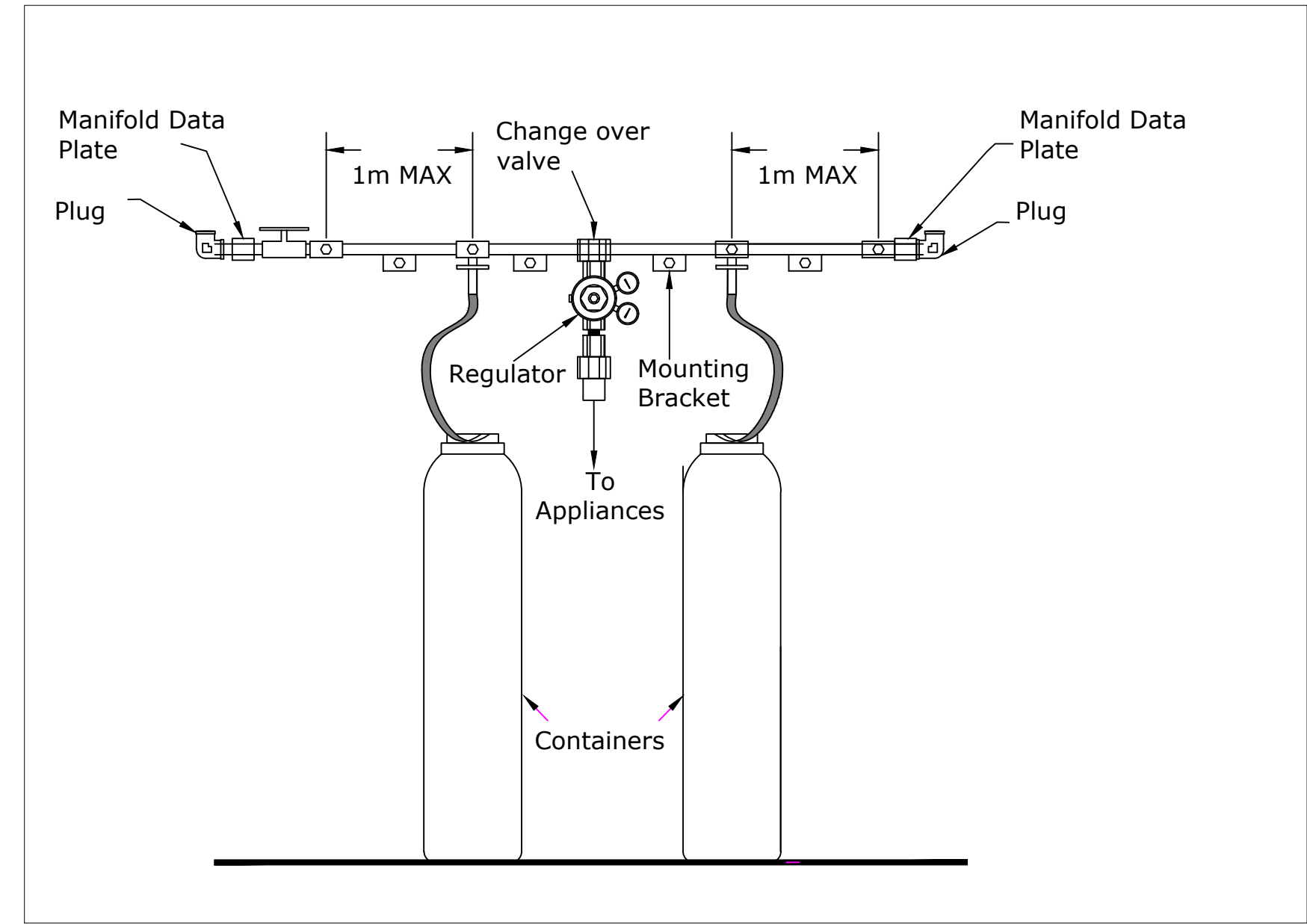
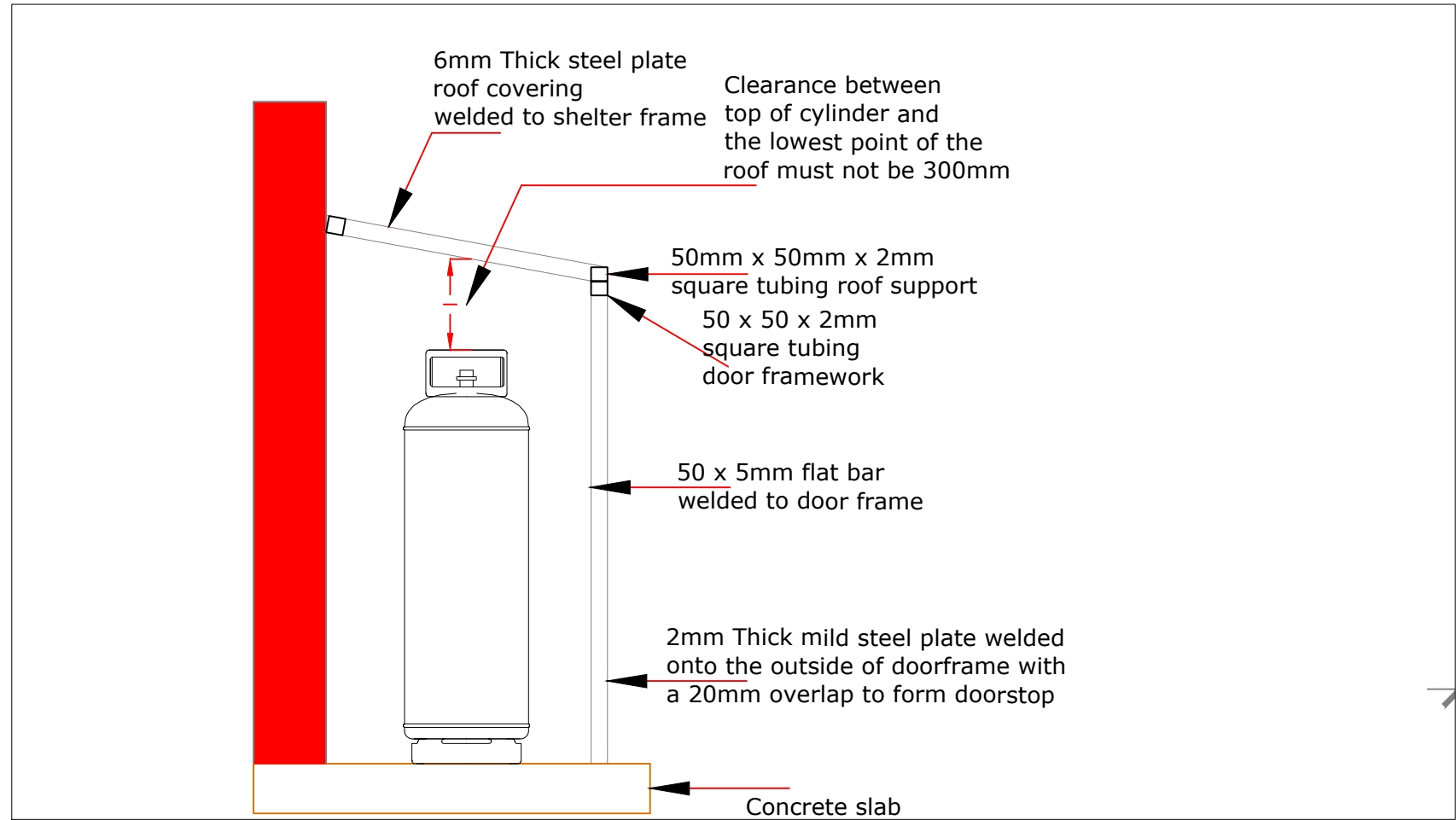


Beauty/Nail Technology | Consumer Studies, Food Production | Consumer Studies, Sewing.  
Scale: 1:50

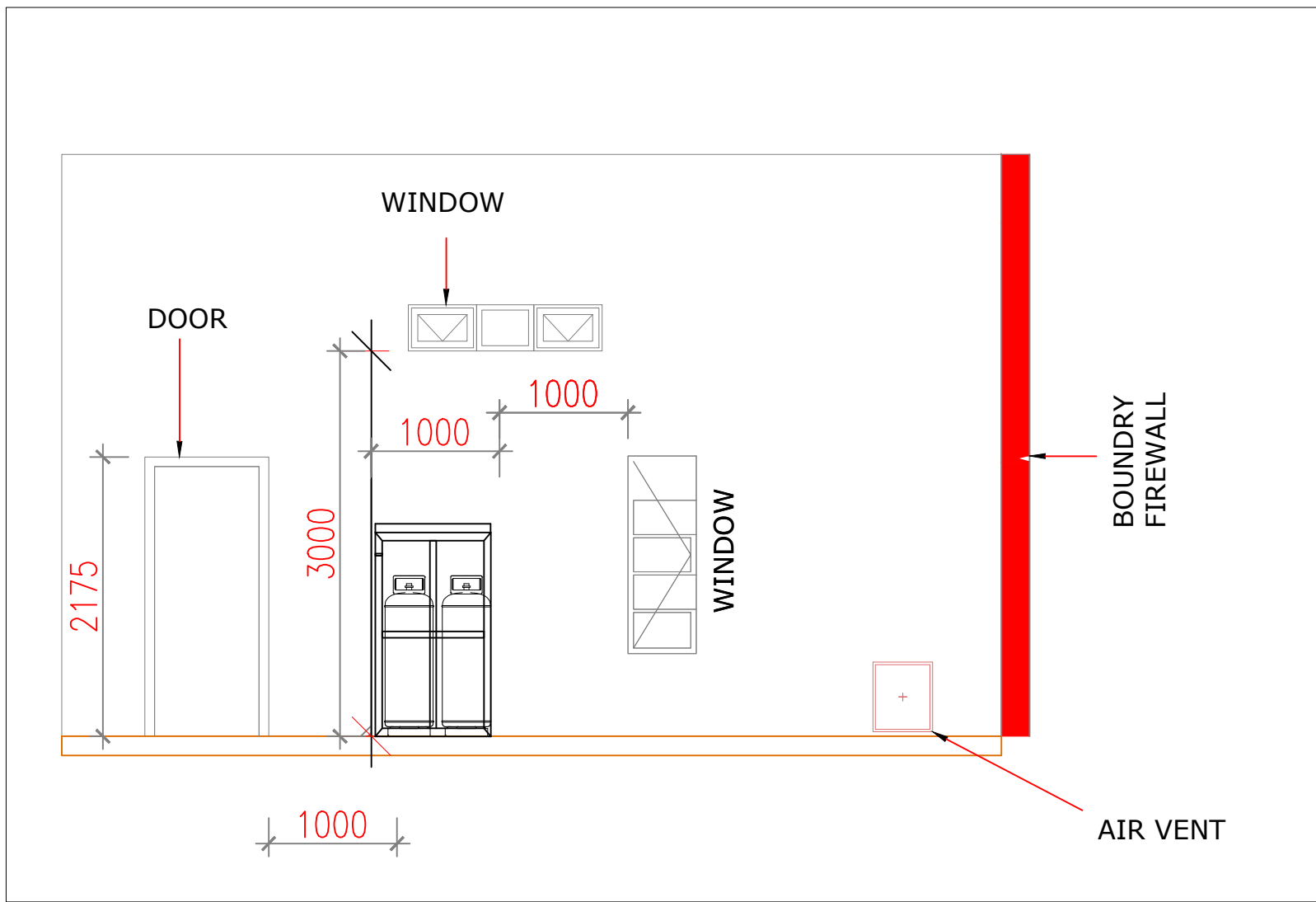


TYPICAL VAPOUR MANIFOLD WITH CHANGEOVER VALVE  
NTS

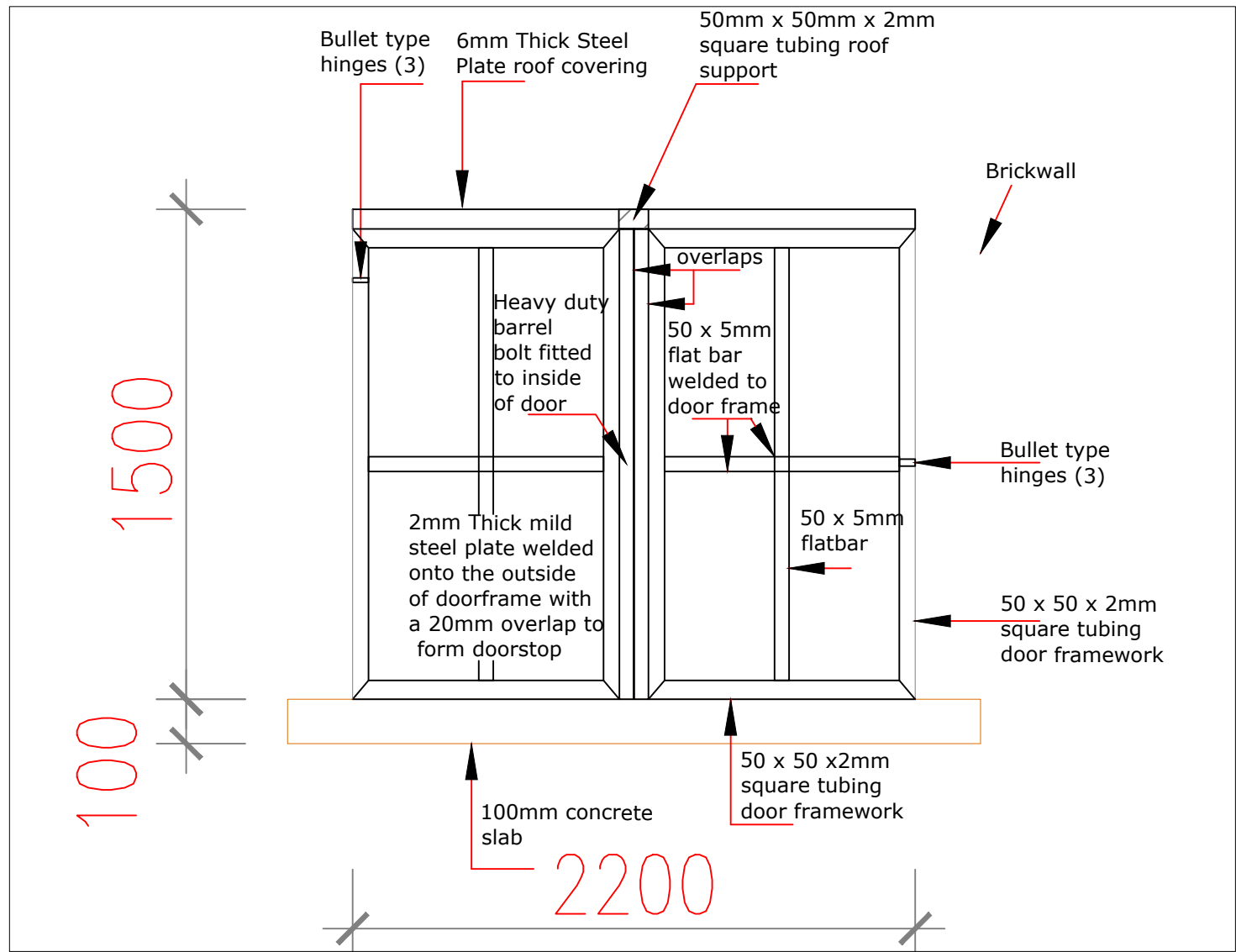
| LP Gas Schedule                                    |                  |   |  |
|--|------------------|---|--|
| STORAGE AREA                                       |                  |   |  |
| LP Gas Gate and Roof Structure                     | 2200Lx850Dx1500H | 1 |  |
| LP Gas Cylinder                                    | 19Kg             | 2 |  |
| LP Gas Vapour & Manifold complete With Accessories |                  | 1 |  |



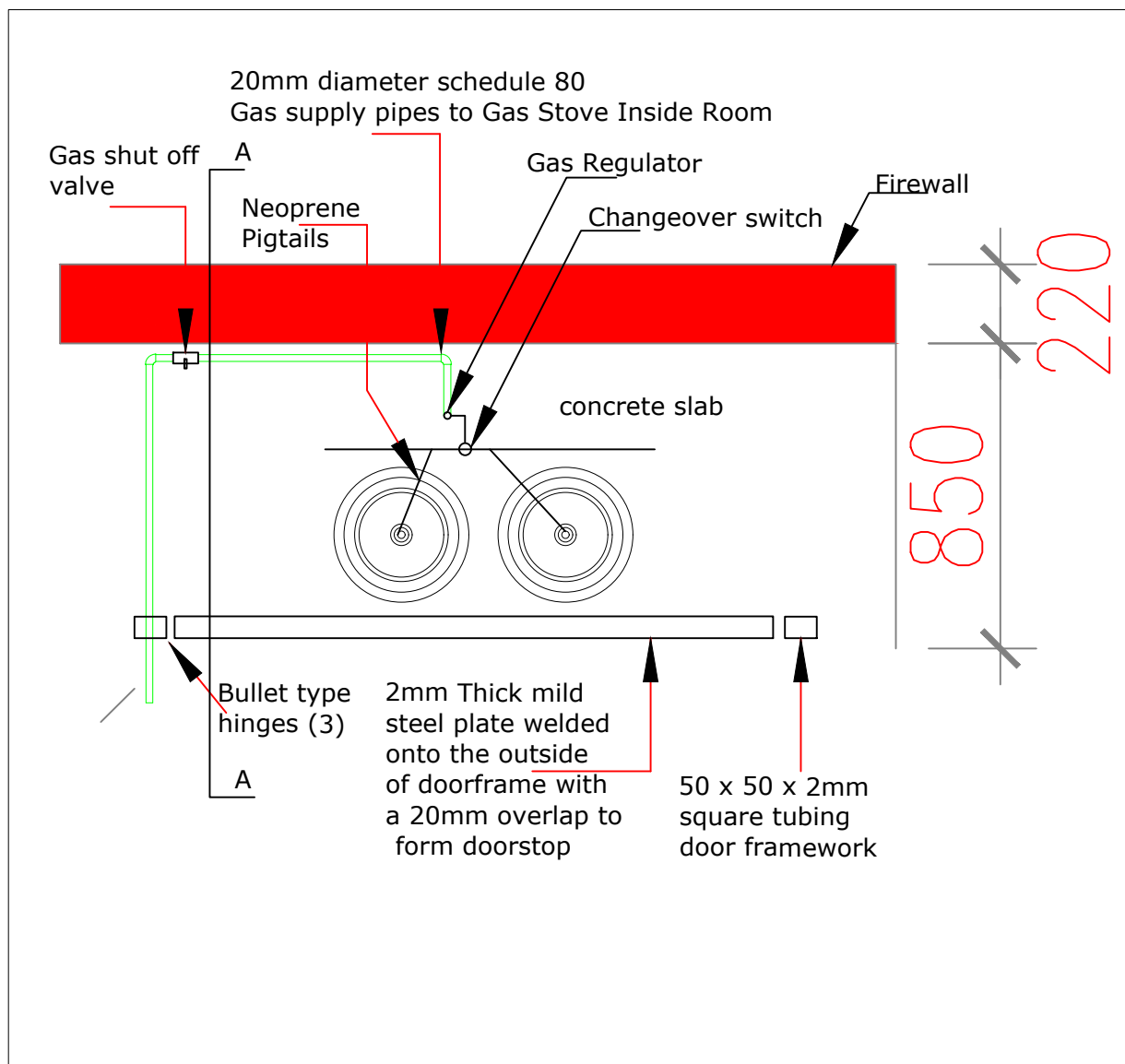
TYPICAL SECTION A-A  
NTS



TYPICAL CYLINDER PLACEMENT BOUNDARY WALL SANS 10087  
SCALE NTS



TYPICAL FRONT VIEW  
NTS



LP GAS : TYPICAL GATE & ROOF STRUCTURE  
NTS

**IMPORTANT NOTES:**

The purpose of this project is to install a new LP gas installation to the new Beauty/Nail technology | Consumer Studies, Food Production | Consumer Studies, Sewing. The new installation must comply with the current regulations for both SANS 10400 and SANS 10087 - Part 1.

**Gas Storage Area:**

1. New signage to be installed
2. New gas manifold to be installed with manual change over valve including pig tail connections name plate etc as per regulations
3. New first stage regulator to be installed with a glow rate of up to 15kh/hr including pressure gauge
4. An emergency shut off valve must be located outside the storage area and must be clearly marked

**Piping Installation**

5. All new piping must be pressure tested
6. Piping to be painted in light stone colour
7. Piping must be labelled with direction markers and LPG identification labels
8. Piping concealed in the floor and any voids to be changed to the TRAC pipe of continuous length, this must be avoided as far as possible

**Valves**

9. All valves must be approved LP gas ball valves
10. Second stage regulators to be installed at an appropriate area and shown on workshop drawings

**FOR  
TENDER**

| REV | DATE     | DESCRIPTION   | ISSUED BY | APPR. BY | SIGNATURE |
|-----|----------|---|-----------|----------|-----------|
| A   | 17-07-20 | UPDATED ARCHITECT LAYOUTS, UPDATED MECHANICAL LAYOUTS | RR        | RR       |           |
| B   | 29-07-21 | UPDATED MECHANICAL LAYOUTS                            | RR        | RR       |           |
|     |          |   |           |          |           |
|     |          |   |           |          |           |
|     |          |   |           |          |           |
|     |          |   |           |          |           |
|     |          |   |           |          |           |
|     |          |   |           |          |           |
|     |          |   |           |          |           |
|     |          |   |           |          |           |

**IMPORTANT NOTES:**

All the necessary safety features shall be incorporated. All machines / apparatus / including installations must comply with the relevant SABS specifications and the Occupational Health & Safety Act ( Act 85 of 1993)

According to SANS 10087, the regulations state where a bottle can or can't be placed and how an installation may be completed.

- 1 : Bottle(s) can not be placed closer than 1m to a door.
- 2 : Bottle(s) can not be placed closer than 2m to an open drain or depression, where the gas can gather if the bottle leaks.
- 3 : Bottle(s) can not be placed closer than 5m to an electrical switch, motor, generator, pool pump etc.
- 4 : Bottle(s) can not be placed closer than 1m to the side of a window unless there is atleast 300mm between the bottom of the window and the top of the bottle and a non combustible roof has been placed between the window and the bottle.
- 5 : Bottle(s) can not be placed closer than 1m to a boundary wall, unless the wall is a double brick "firewall" > 1.8m tall, with no ventilation gaps in the wall.
- 6 : Only a registered LP gas installer may work on a gas system. Every installation must be signed off by installer with a valid certificate.
- 7 : Piping shall be Schedule 80 Steel Pipe, **Do Not Use Copper Piping.**
- 8 : Reinforced "orange" hose connecting appliances can not be longer than 2m and the hose can not have any joins and it can not pass through any walls or partition.
- 9 : Air vents must be at the low levels and must not be obstructed.
- 10: Only a registered LP gas Installer may work on a gas system. Every installation must be signed off by installer with a valid certificate.
- 11: All works for, Liquid Petroleum (LP Gas) Installation to conform to by lays, current regulations, SANS 10087-1 including related codes of Practice.
- 12: Signage to be Installed.
- 13: New manual change over LP Gas manifold to be installed including pig tails, name plates etc.
- 14: New final stage regulator c/w Pressure Gauge to be installed to meet design flow rates.
- 15:Piping shall be Schedule 80 Steel Pipe **ONLY** & all Piping should be Pressure Tested.
- 17: Piping to be labeled with direction markers and LPG identified labels.
- 18: All valves to be of approved LP Gas ball valves.
- 19: Second stage regulators to be installed to each LP Gas equipment.
- 20: LP Gas to be installed to indicative points and installed and fitted as per approved workshop drawings. Workshop drawings to be approved by the mechanical engineer.
- 21: Shut off Valves to be placed in logical and reachable places throughout and shall be pre approved by engineer on site.

**CLIENT:**



**CONSULTANT:**



**Gauteng Office (Head Office)**

GladAfrica House, Hertford Office Park  
90 Bekker Road, Vorna Valley, Midrand, 1686  
P.O. Box 6723 Halfway House 1685  
Tel: +27 11 312 2537/2584  
Fax +27 11 805 1950  
[www.gladafrika.com](http://www.gladafrika.com)

|          | NAME      | REG. NO. | SIGNATURE | DATE     |
|----------|-----------|----------|-----------|----------|
| DRAWN    | R.RAMPLIN | 20140432 |           | 29/07/21 |
| DESIGNED | R.RAMPLIN | 20140432 |           | 29/07/21 |
| APPROVED |           |          |           |          |

**PROJECT DESCRIPTION**

TROMPSBURG SPECIAL SCHOOL  
SCHOOL SECTION

**DRAWING TITLE**

BEAUTY & NAIL TECHNOLOGY LP GAS INSTALLATION  
LAYOUT

| STATUS LEGEND |                         | SHEET SIZE   |          |
|---------------|-------------------------|--------------|----------|
| I             | = INFORMATION           | A1           |          |
| CV            | = CONCEPT AND VIABILITY |              |          |
| D             | = DESIGN DEVELOPMENT    |              |          |
| T             | = TENDER                |              |          |
| C             | = CONSTRUCTION          | SCALE        |          |
| AB            | = AS BUILT              | AS SPECIFIED |          |
| DISCIPLINE    | DRAWING NUMBER          | STATUS       | REVISION |
| MECHANICAL    | 92-ME-LP-302            | T            | B        |