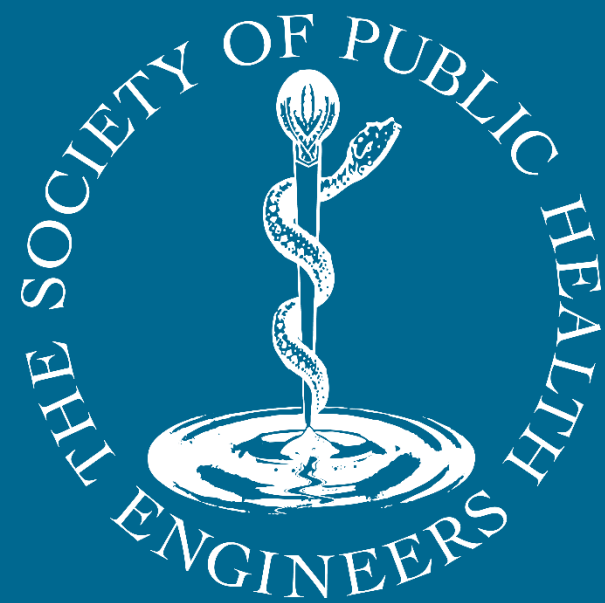


Session 2 Building Fire Strategy and Impact on Fire Protection System / RIBA Stages



Introba



Introductions



Amanda Stanley



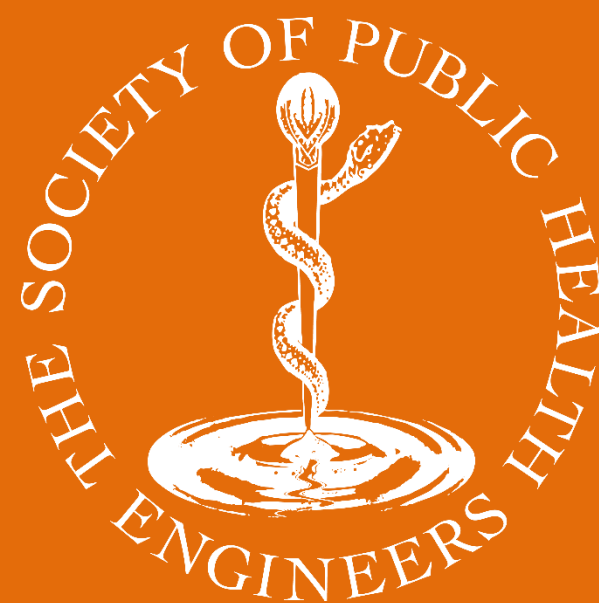
Simon Burch



Jeff Brown



Simon Jarvis



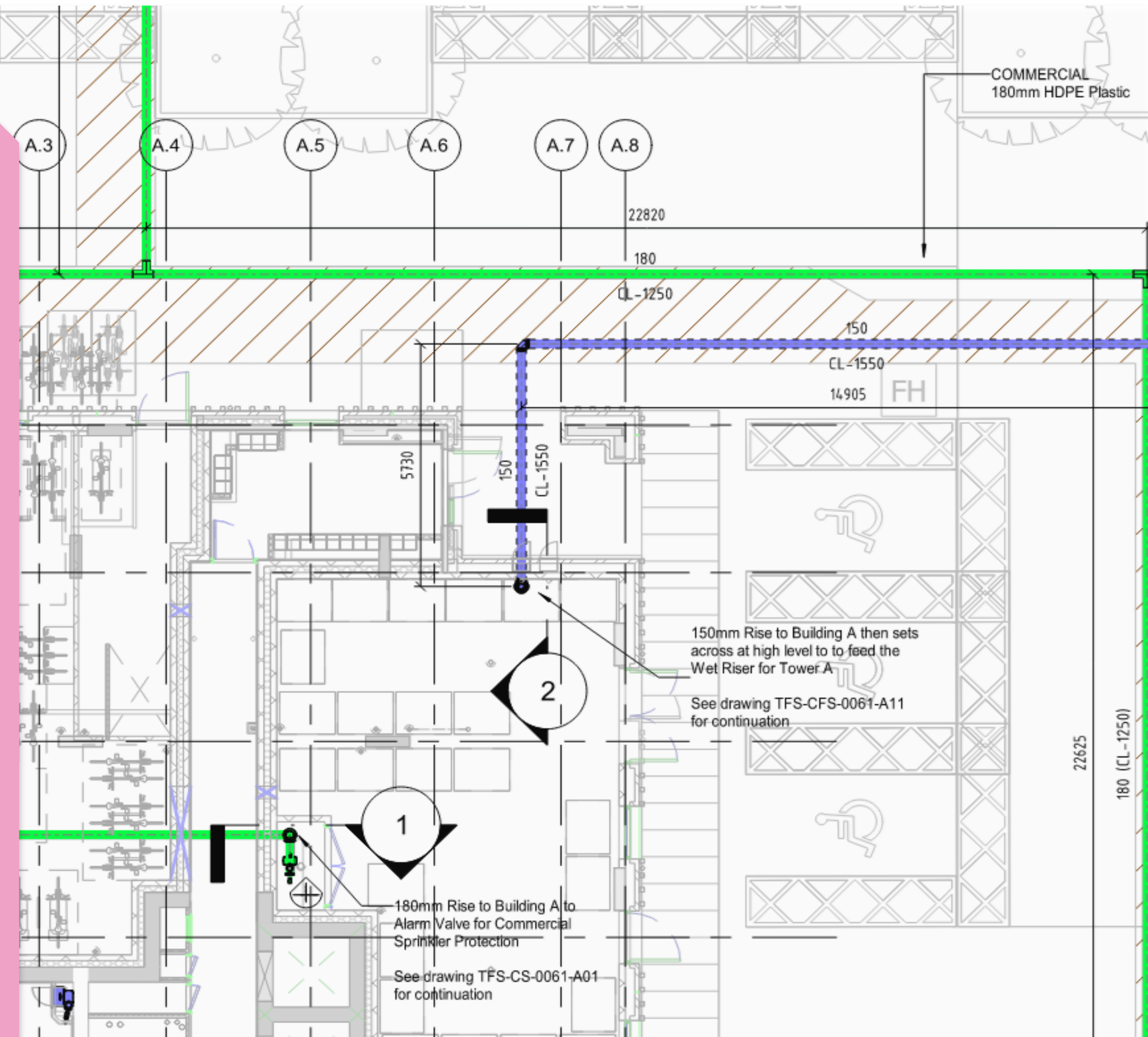
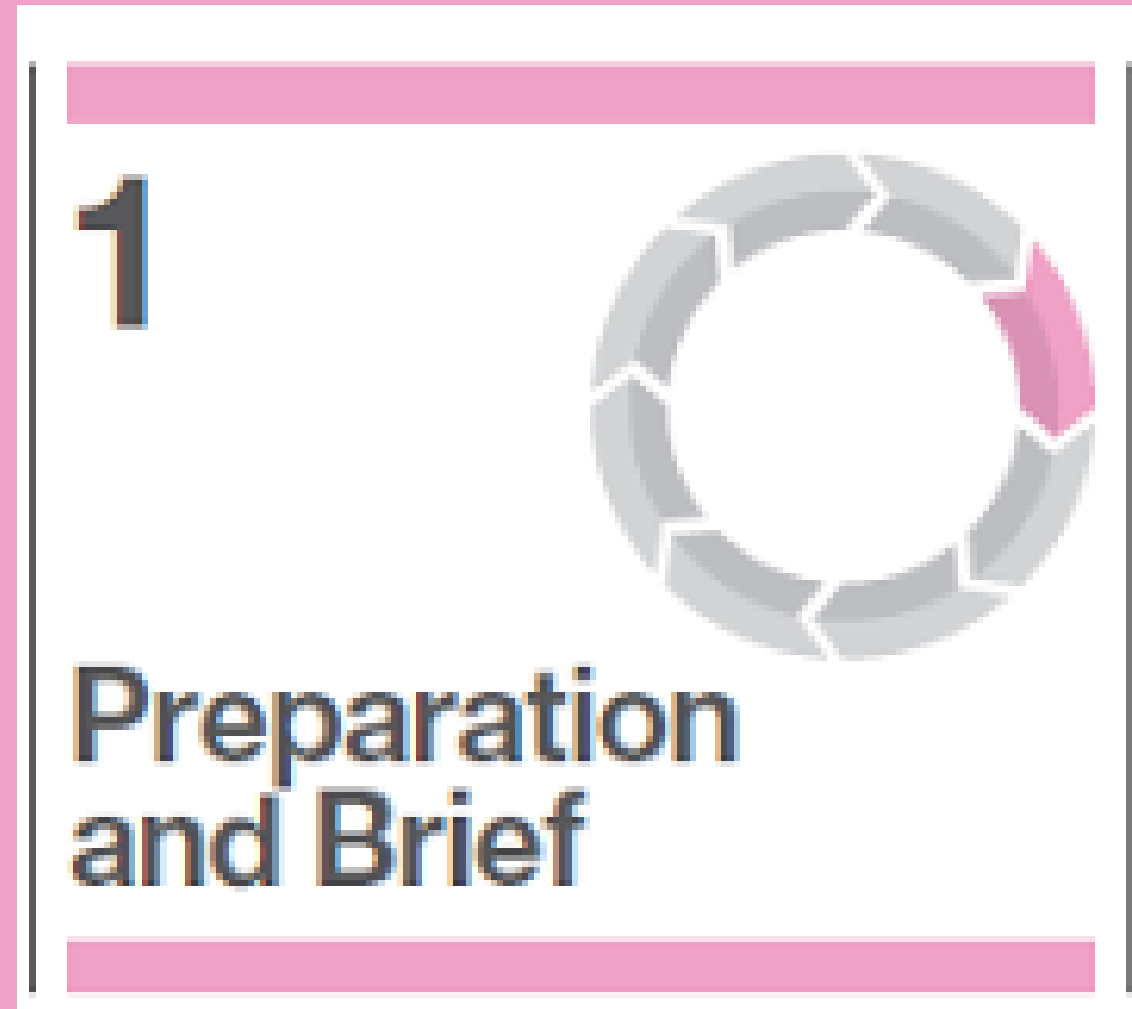
Introba

The Importance of Fire Suppression

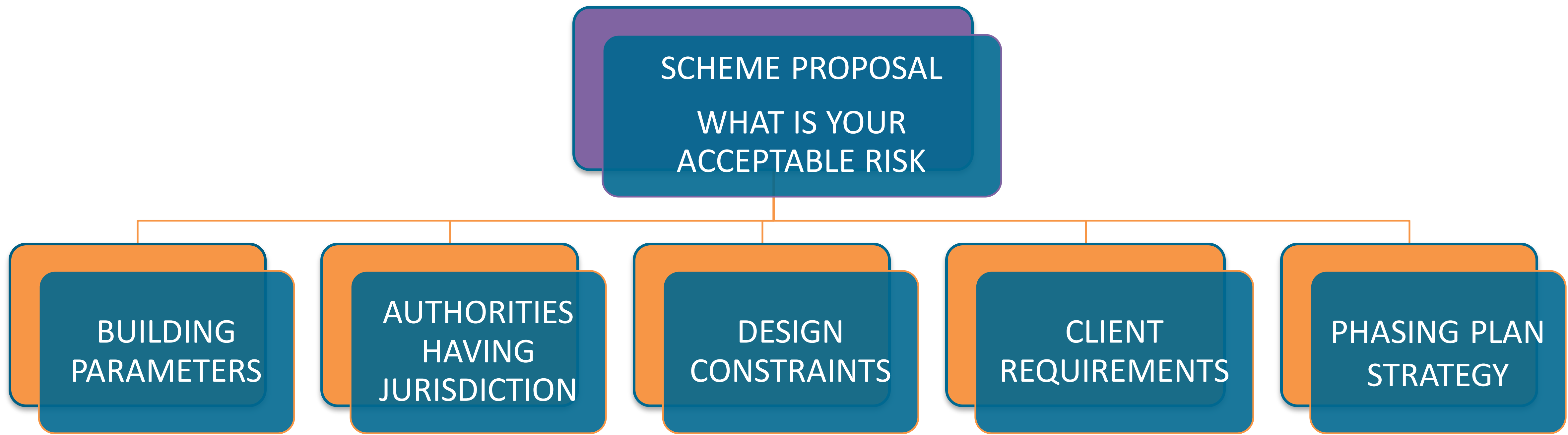


RIBA Stage 1

Developing Project Brief & Objectives

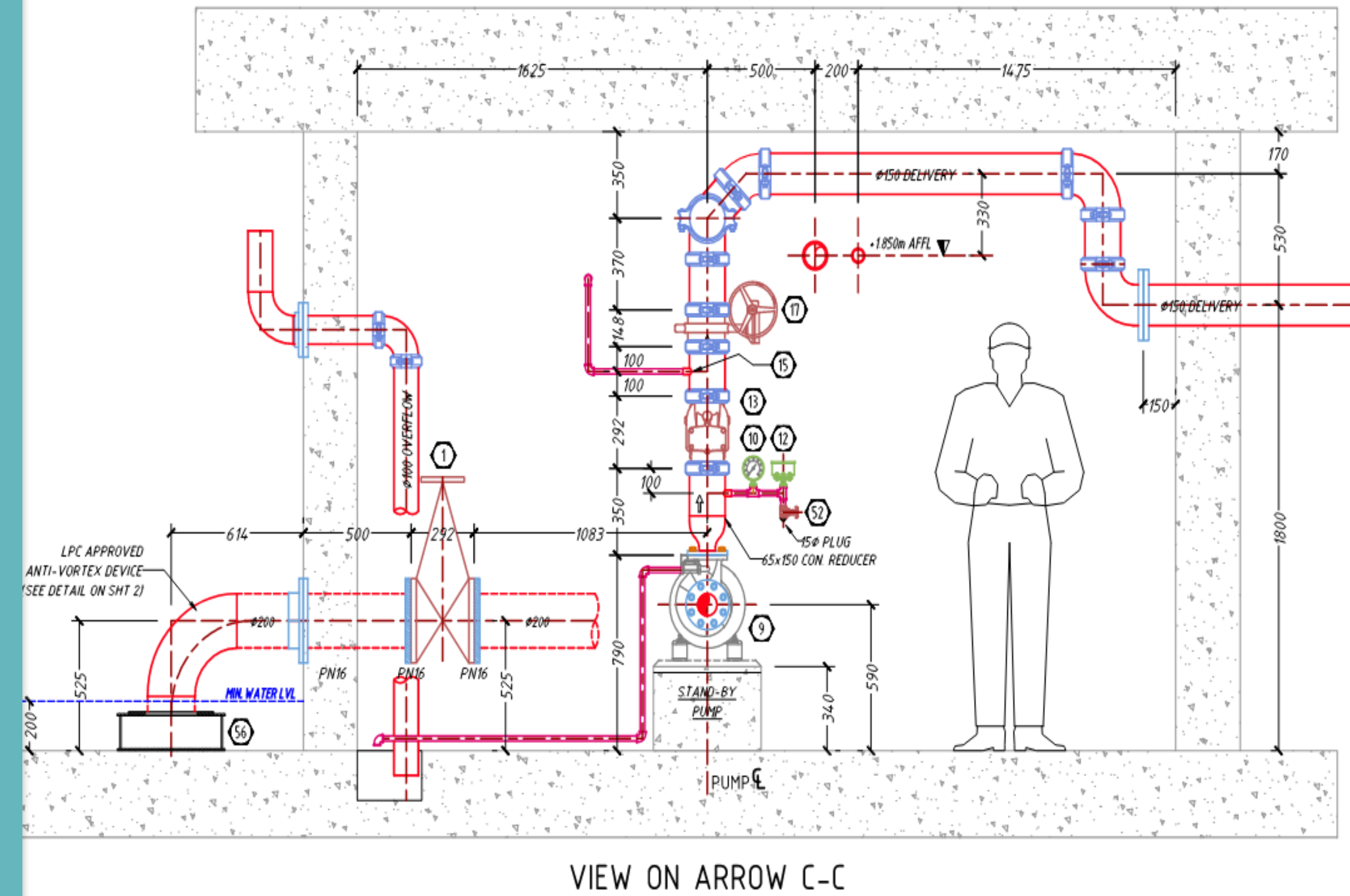
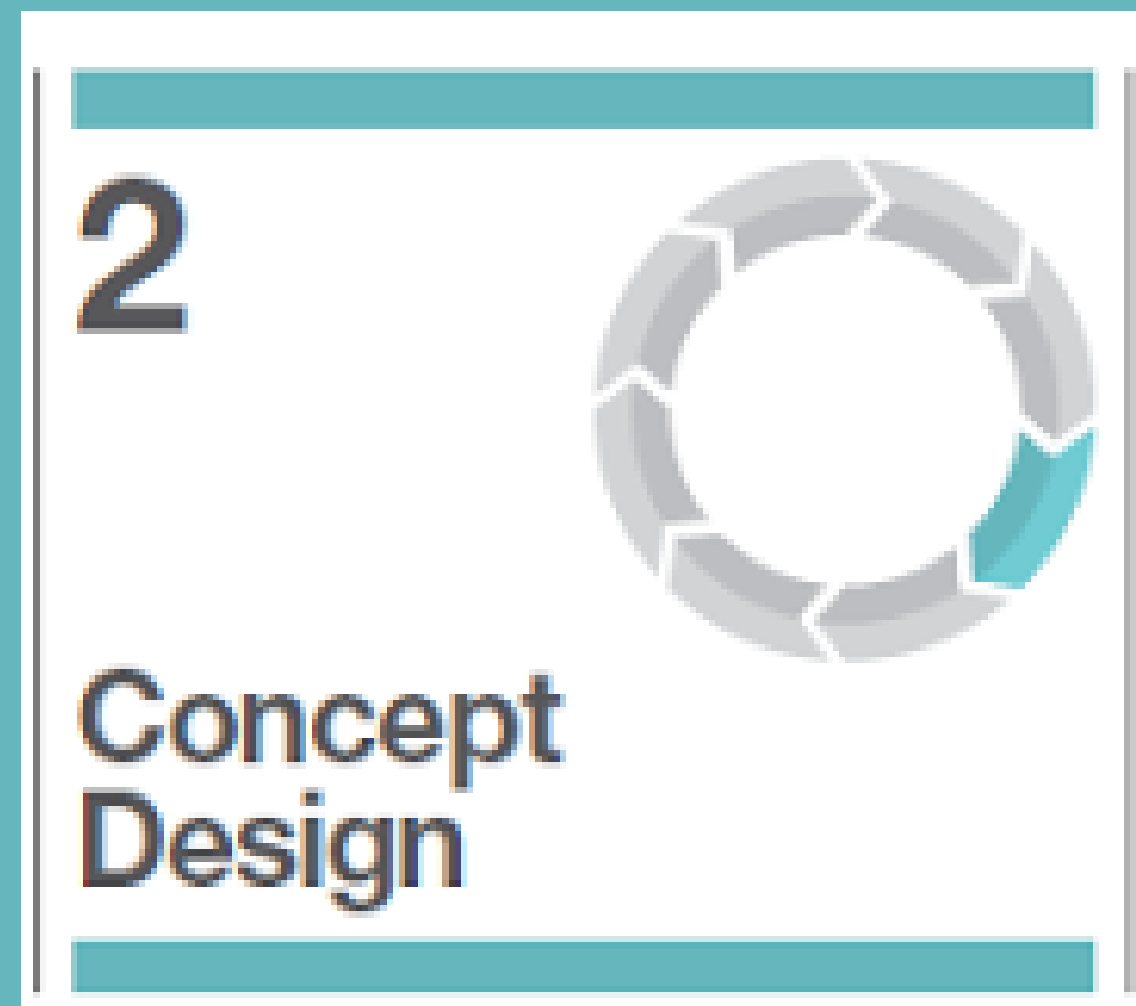


RIBA Stage 1 – Strategic Ambition



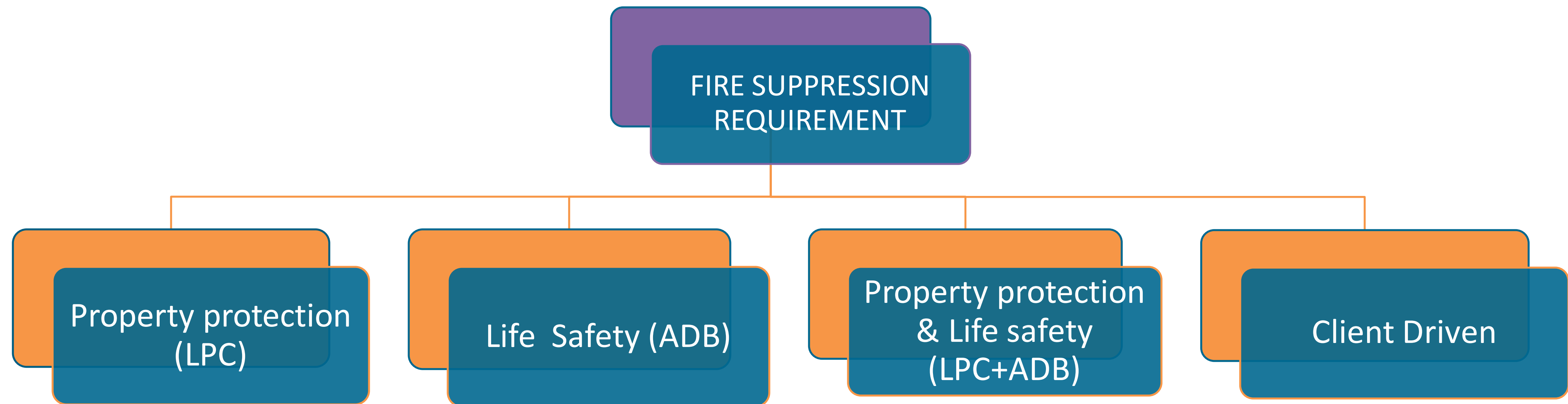
RIBA Stage 2

Preparing Project Design Considerations with potential space planning



RIBA Stage 2 - System Specification Analysis - Input

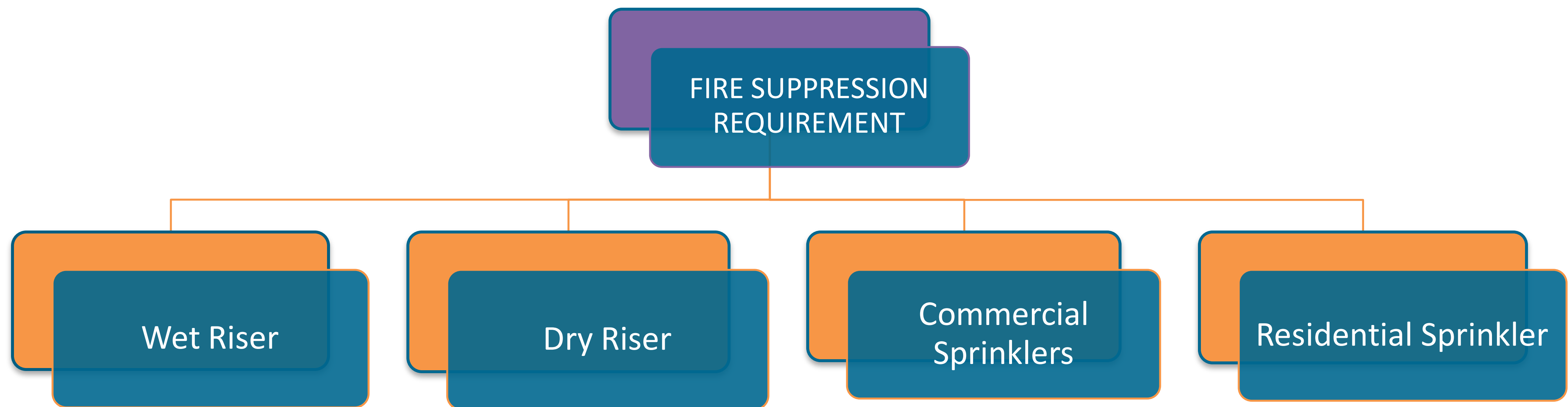
Understanding and establishing the requirement for sprinklers and the effects this can have, including the risk if not identified early enough through a project.



RIBA Stage 2 - System Specification Analysis - Input

- Employers requirements
- Preliminary Fire strategy report
- Building Information – Architectural,
- Standards, specifications and codes of practice
- Scheme suppression proposed plant strategy

RIBA Stage 2 - System Specification Analysis - Output



RIBA Stage 2 - System Specification Analysis - Output

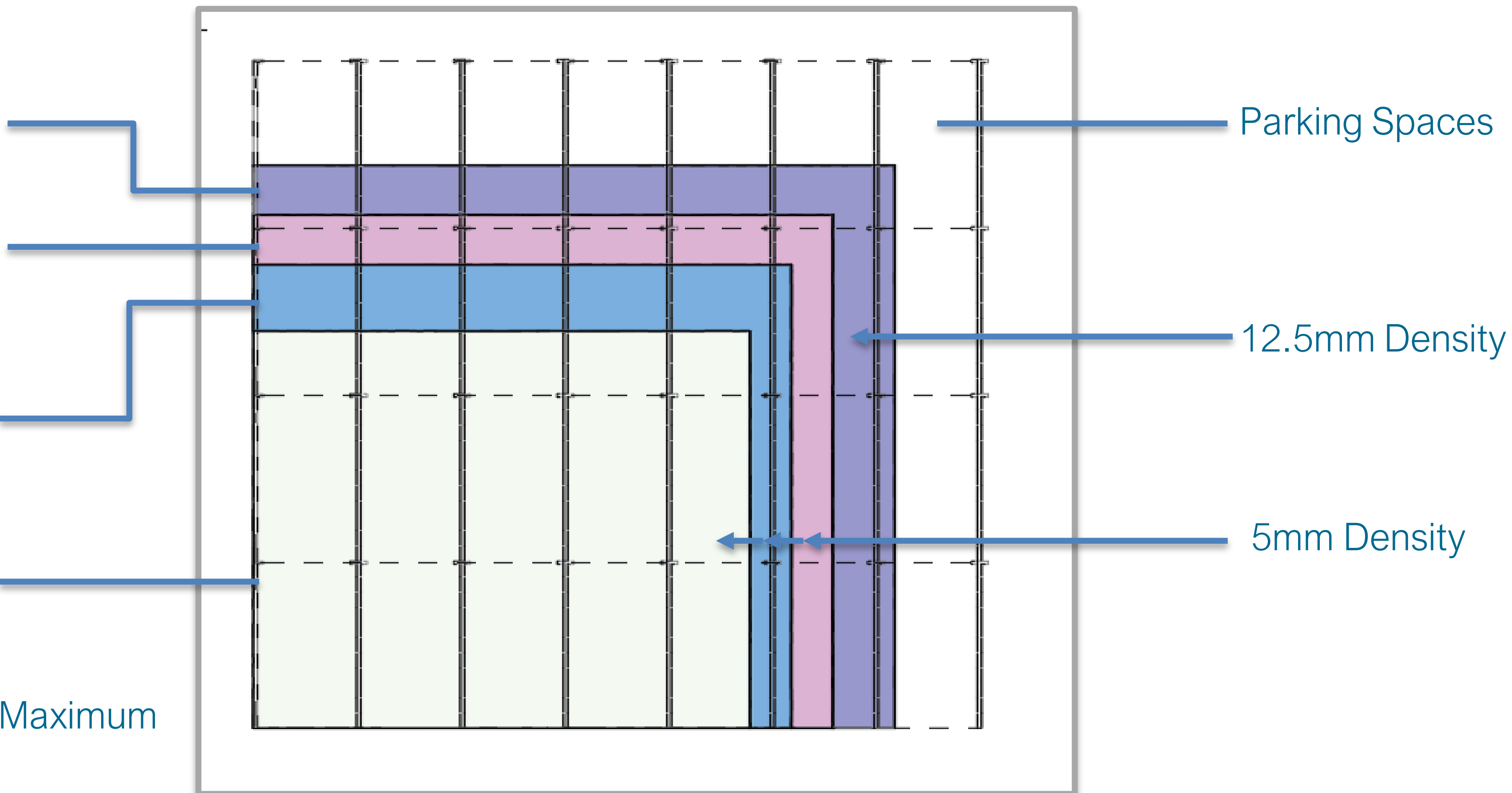
AMAO 260m²
HHP3 Wet System

AMAO 216m²
OH3 Wet System

AMAO 180m²
OH2 Dry System

AMAO 144m²
OH2 Wet System

AMAO = Assumed Maximum
Area of Operation



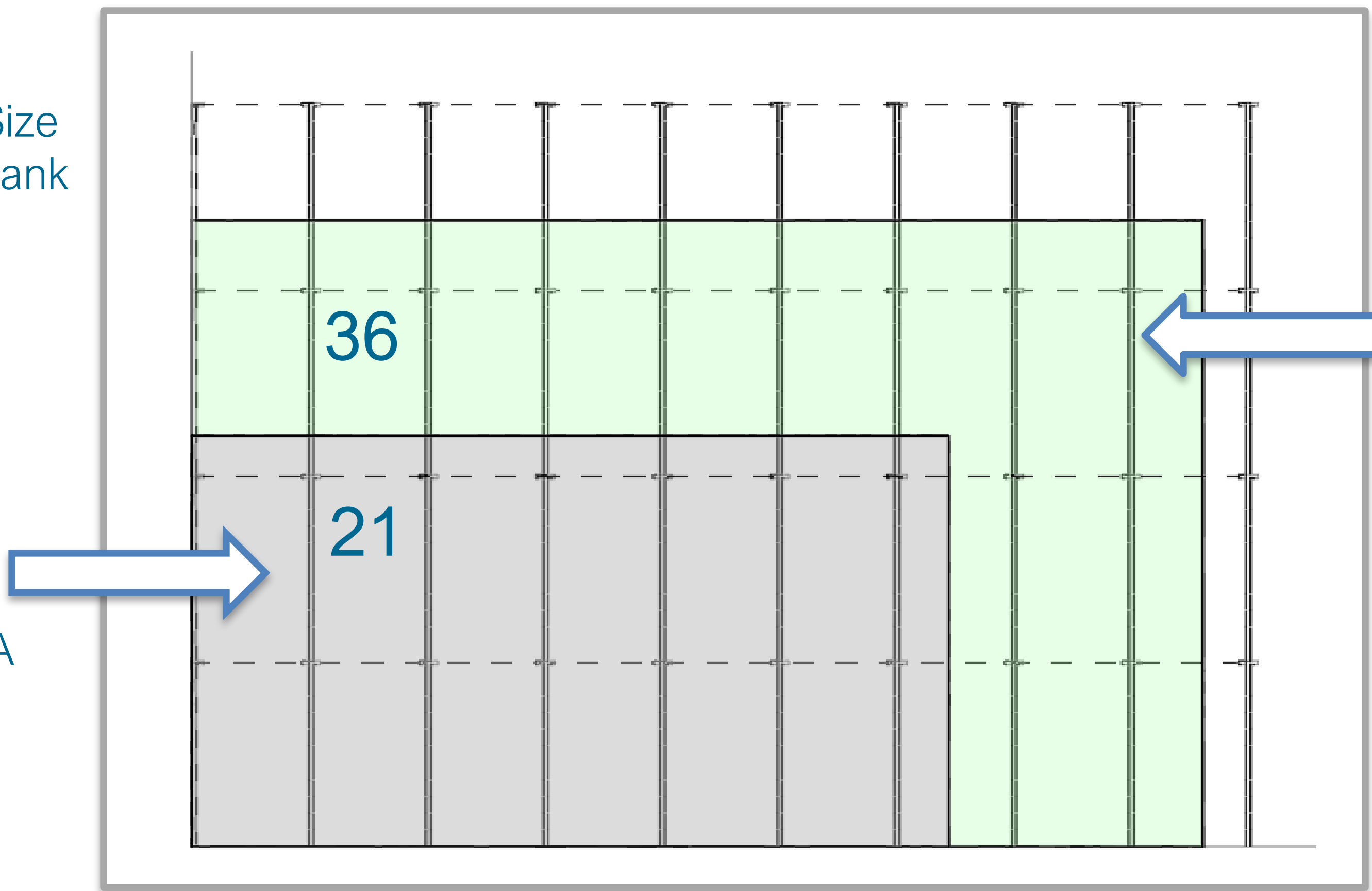
CONFIRMED



RIBA Stage 2 - System Specification Analysis - Output

OH3 Minimum Plantroom Size
135m³ Effective Capacity Tank
180m³ Nominal Capacity
Twin Electric Pumps
OH2 Dry/OH3 Wet System Supply

Typical Electrical Loadings
Full Load Current 27A
Starting Current 79A
Locked Rotor Current 238A
Total Load 317A



HHP3 Minimum Plantroom Size
380m³ Effective Capacity Tank
440m³ Nominal Capacity
Twin Electric Pumps
HHP3 Wet System Supply

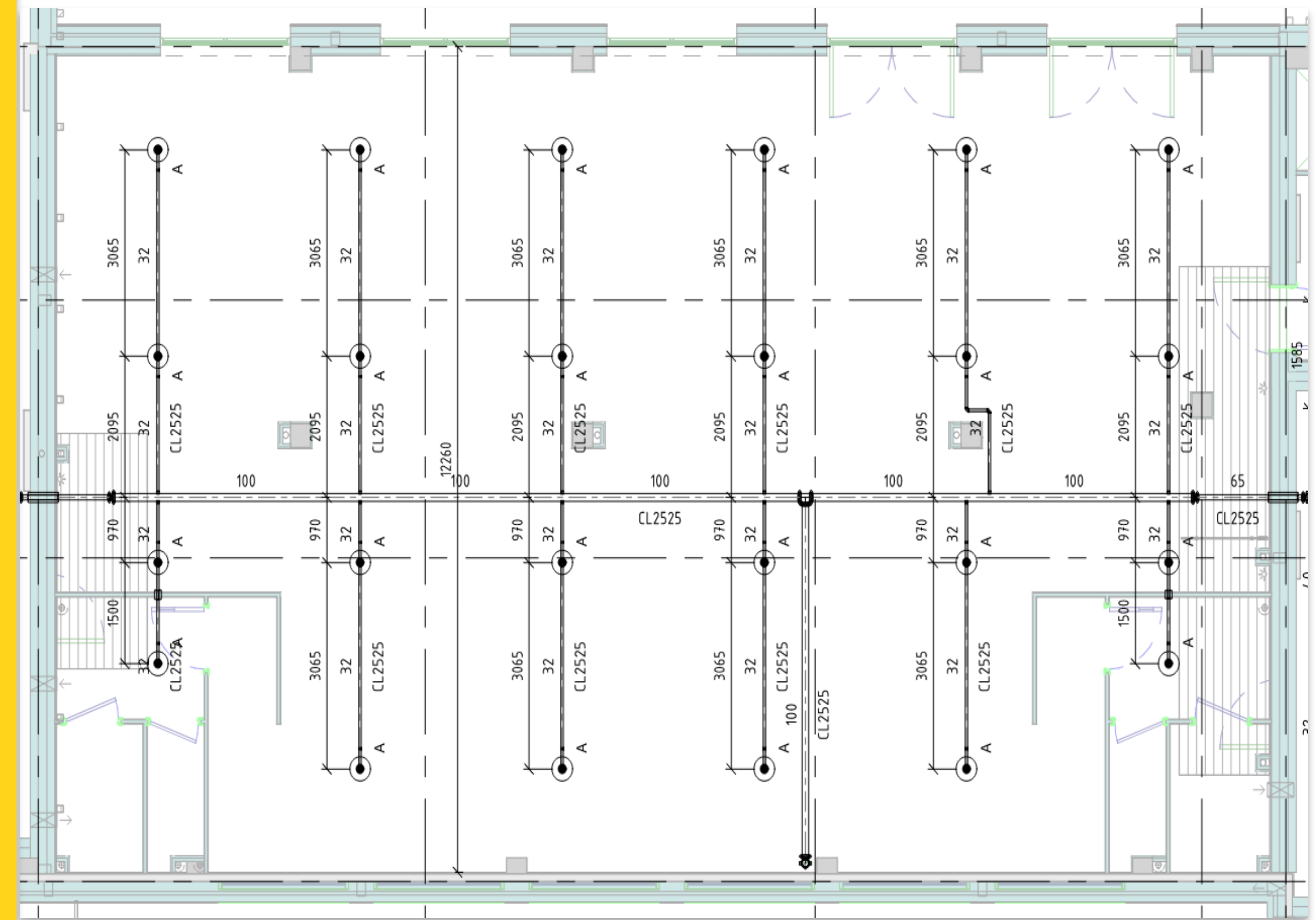
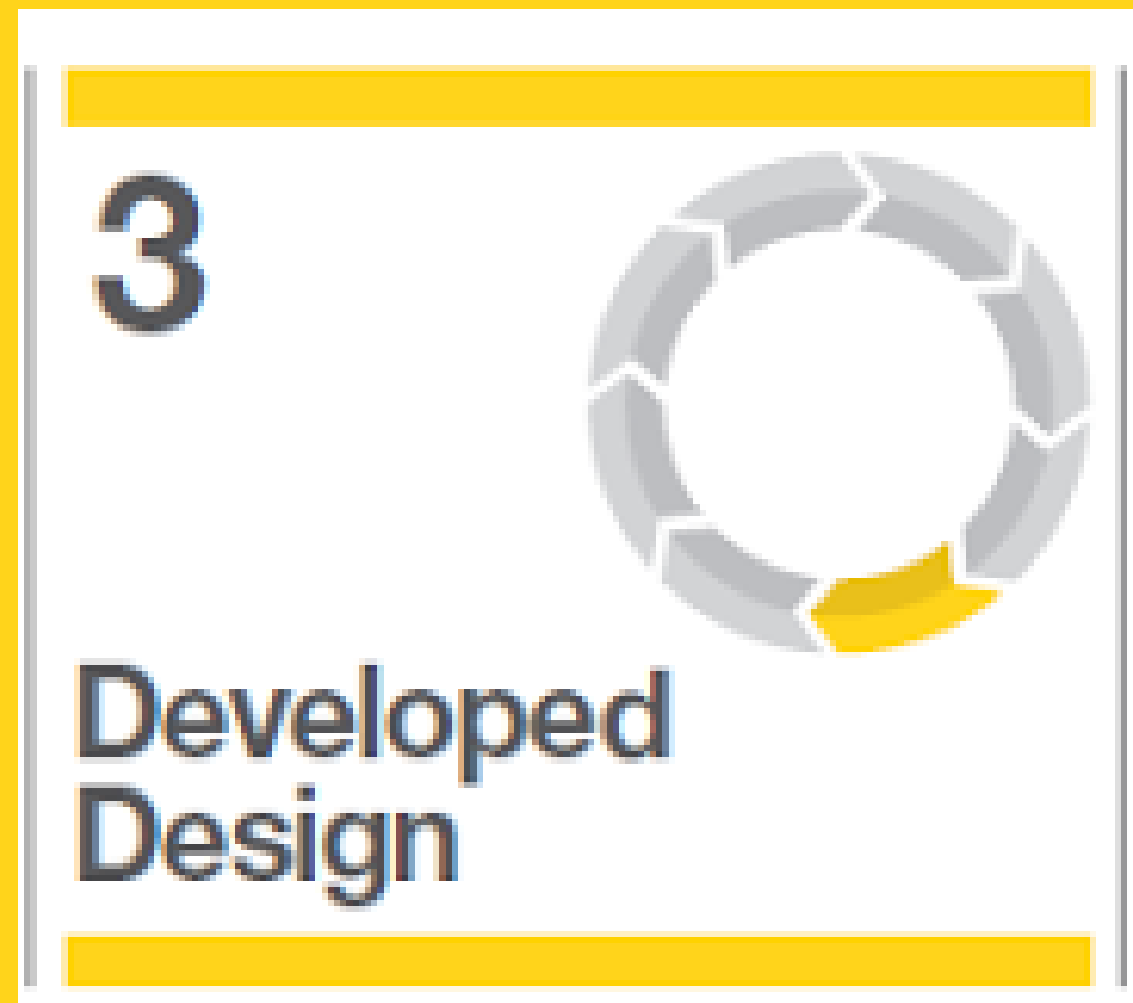
Typical Electrical Loadings
Full Load Current 152A
Starting Current 380A
Locked Rotor Current 1140A
Total Load 1520A

CONFIRMED

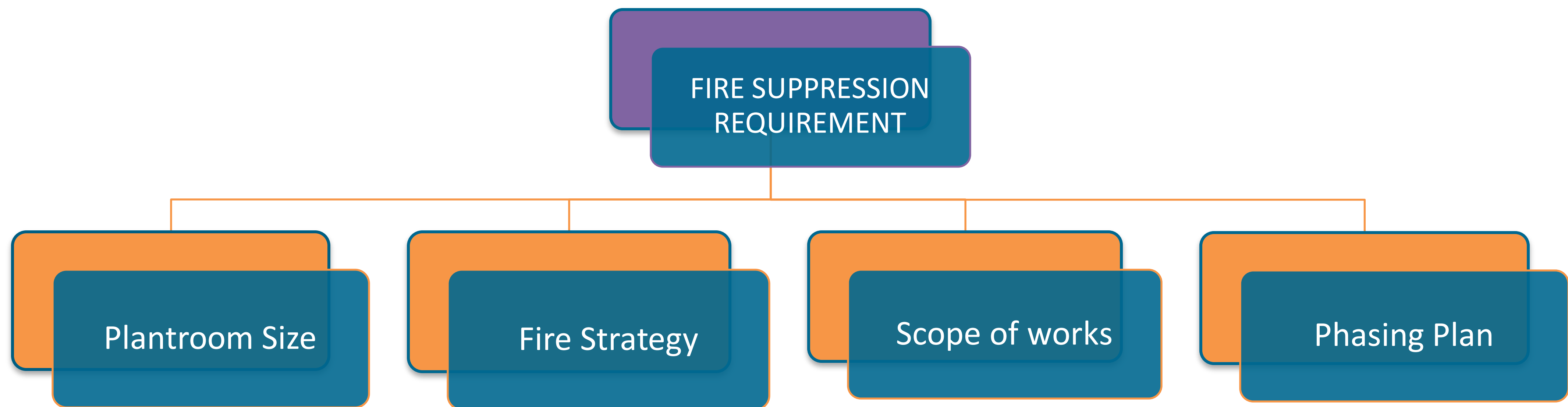


RIBA Stage 3

Developing the Project's Space Planning & basic infrastructure requirements



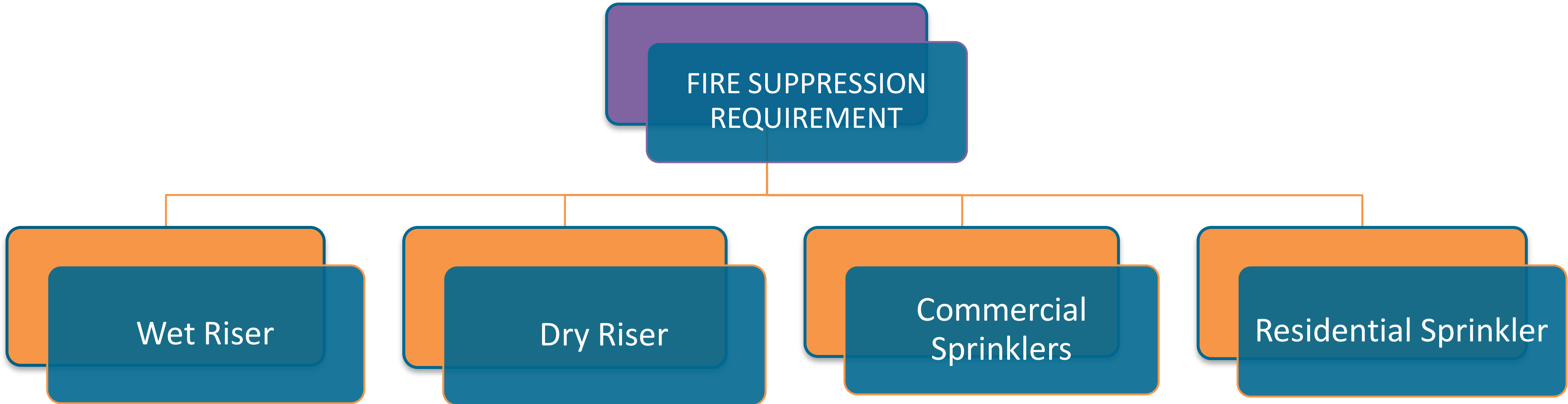
RIBA Stage 3 - System Specification Analysis - Input



RIBA Stage 3 - System Specification Analysis - Input

- Confirmed Plantroom Sizes
- Confirmed Fire Strategy
- Confirmed Scope of works
- Confirmed hazard reviews
- Confirmed building information
- Confirmed Phasing plan

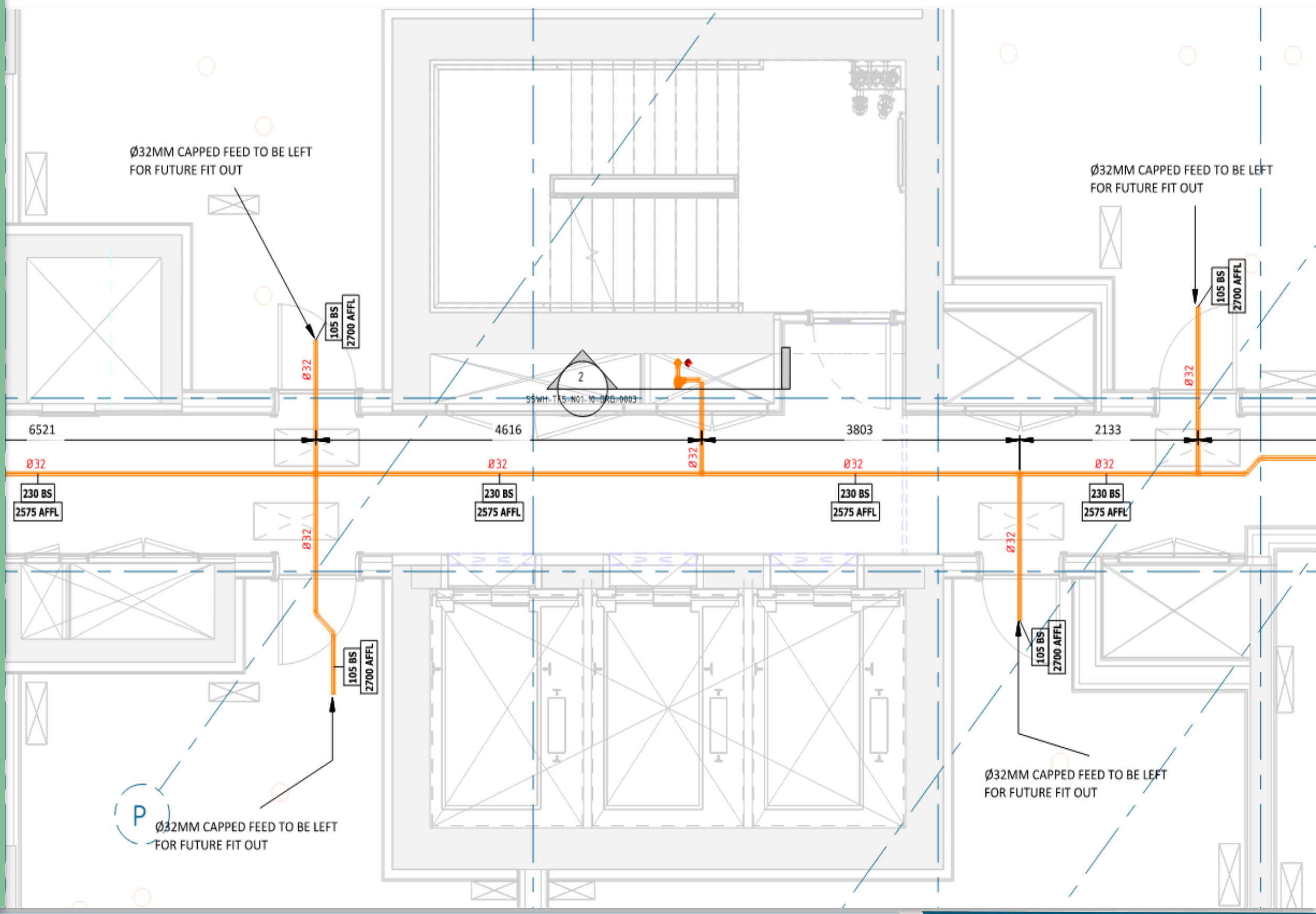
RIBA Stage 3 - System Specification Analysis - Output



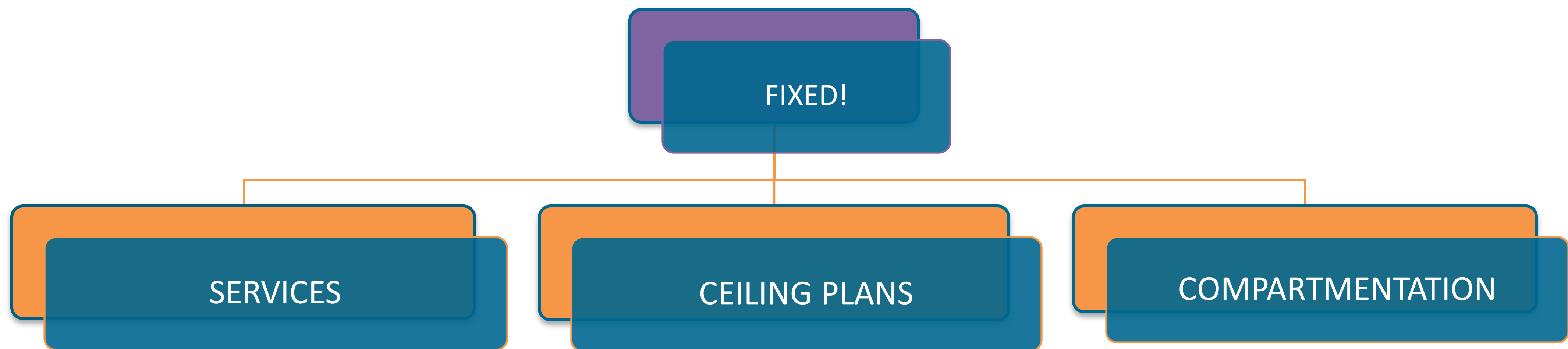
CONFIRMED

RIBA Stage 4

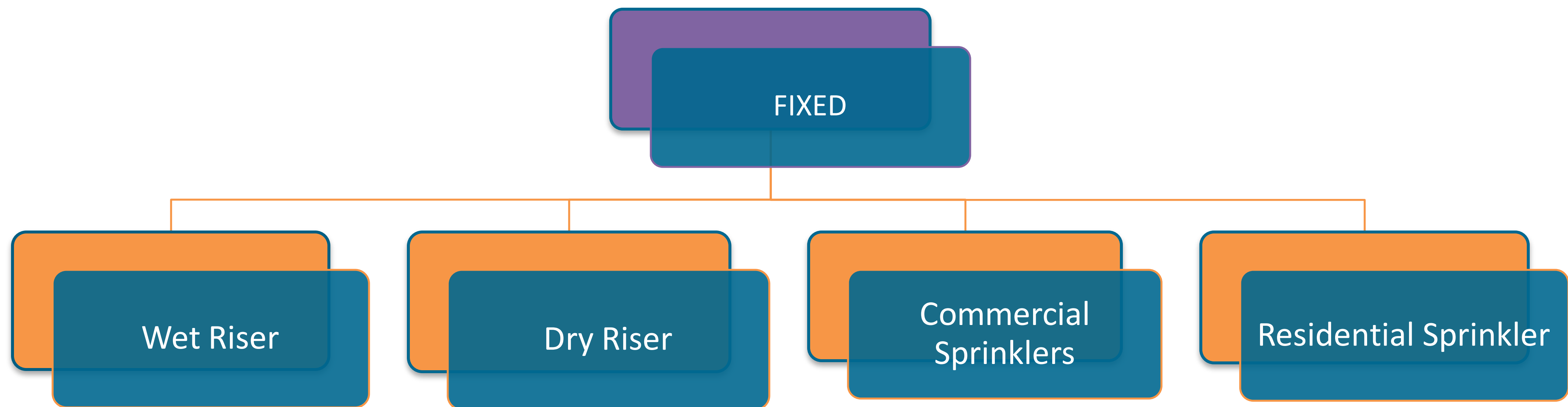
Developing the Design to Tender and Construction level of detail including calculations



RIBA Stage 4 - Input

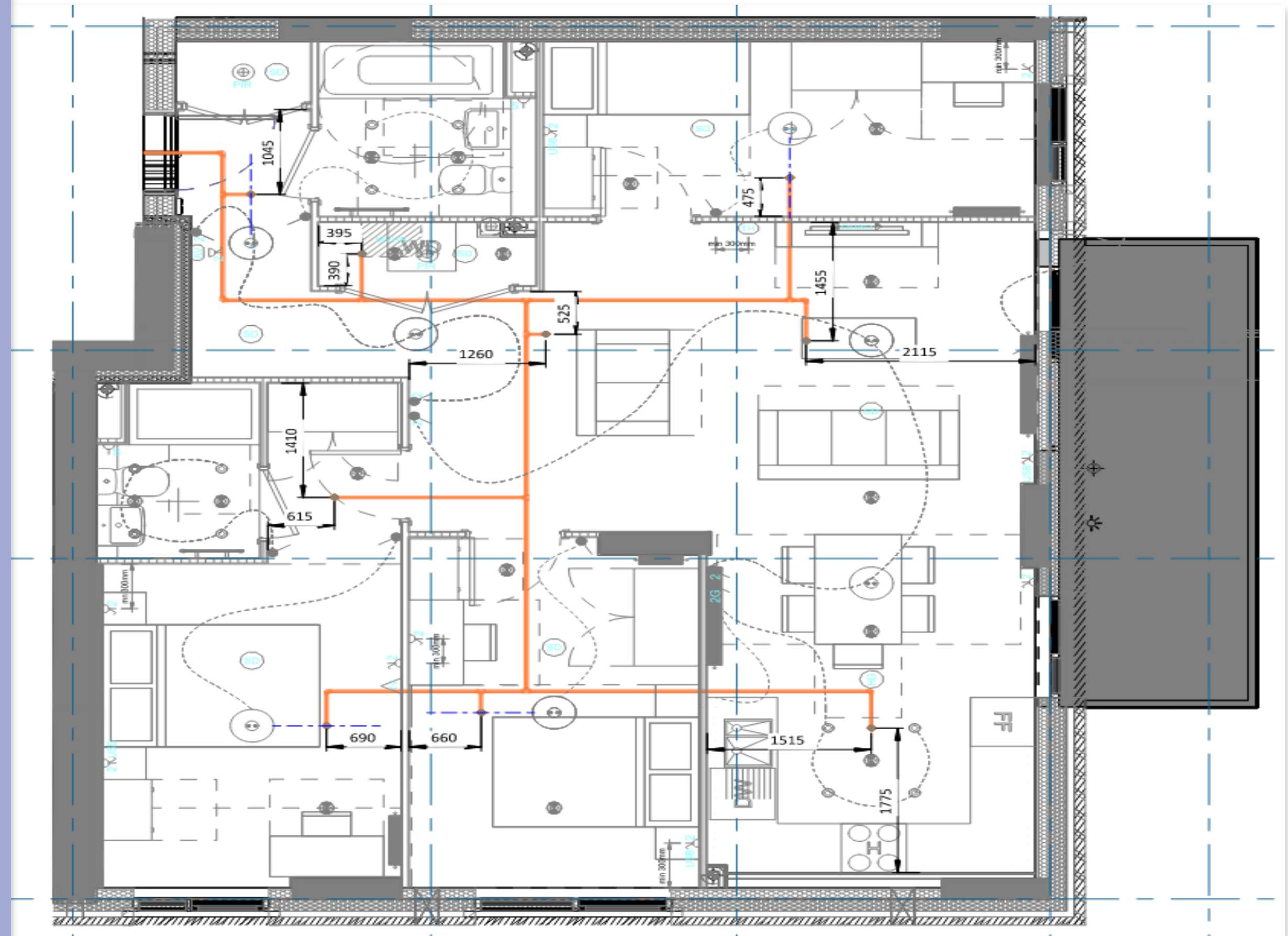


RIBA Stage 4 - Output

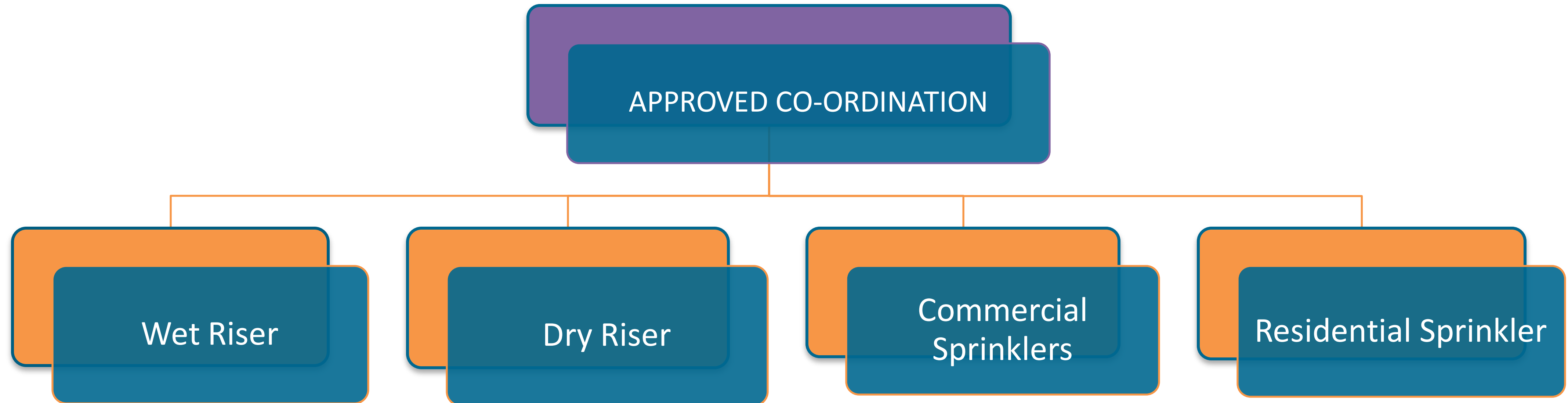


RIBA Stage 5

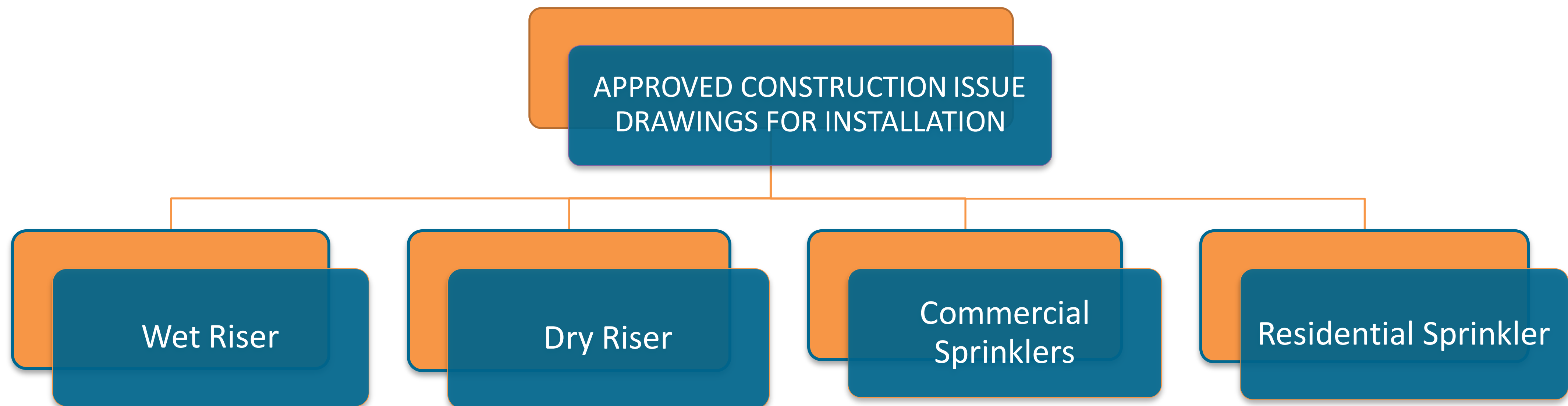
Installing the Project



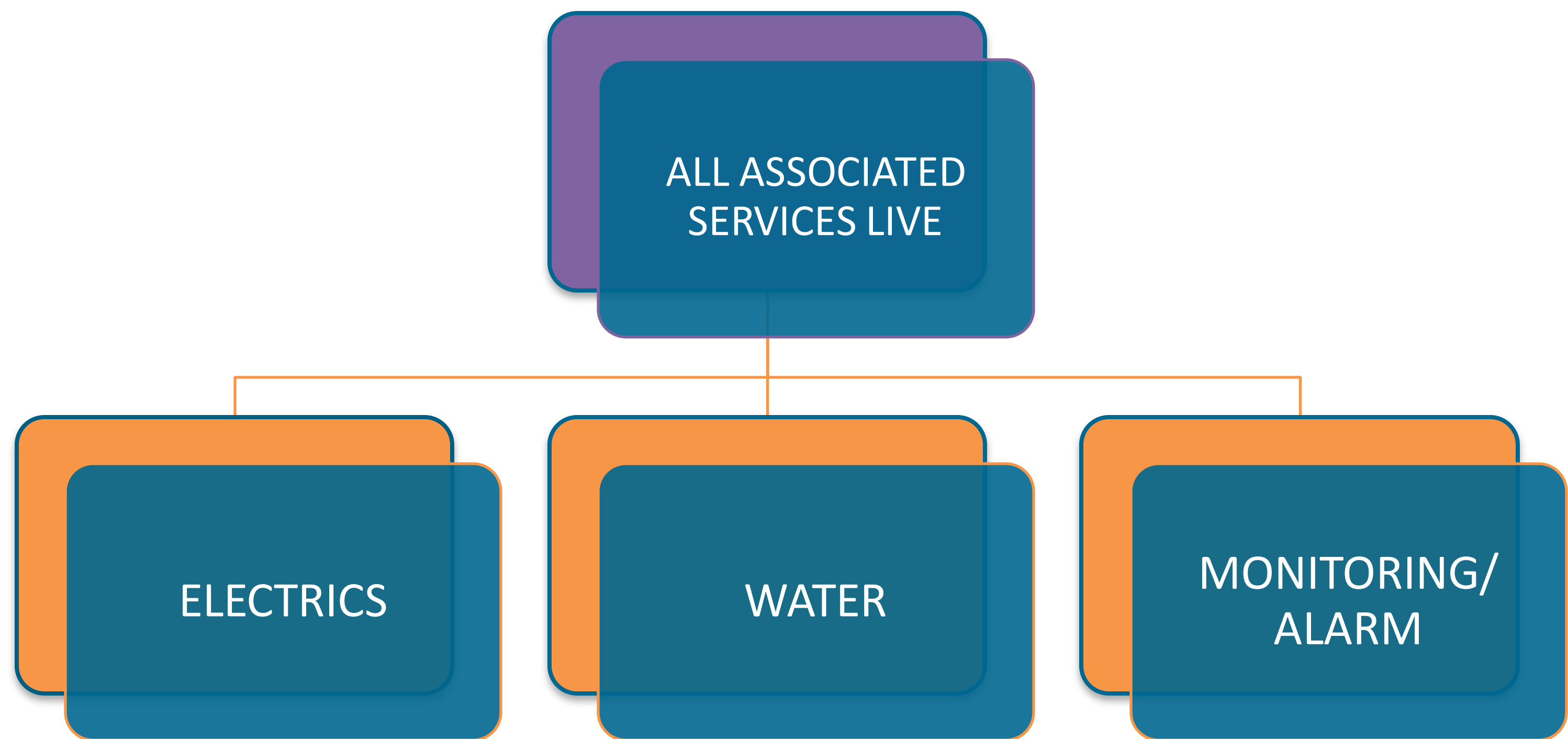
RIBA Stage 5 - Input



RIBA Stage 5 - Output

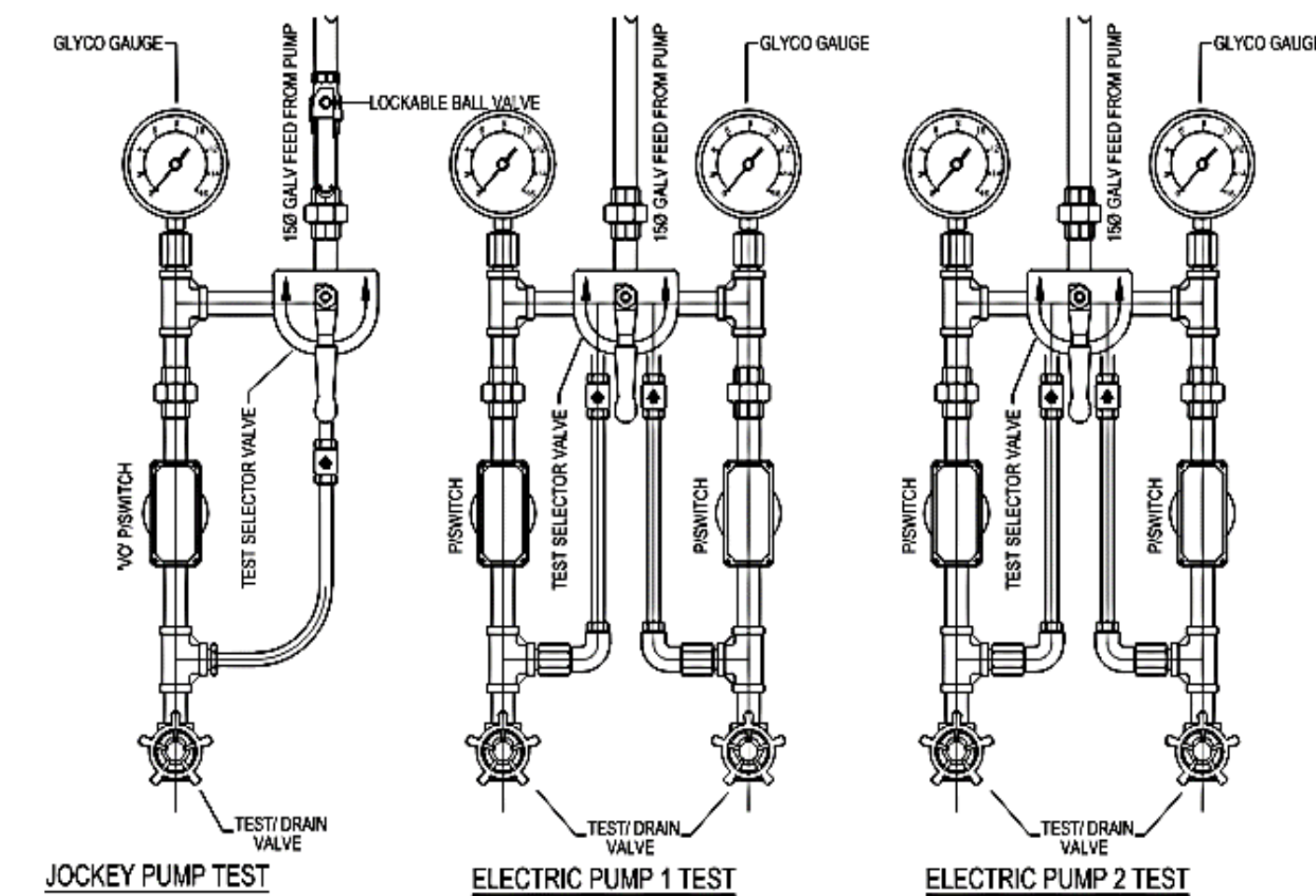


RIBA Stage 6 - Input



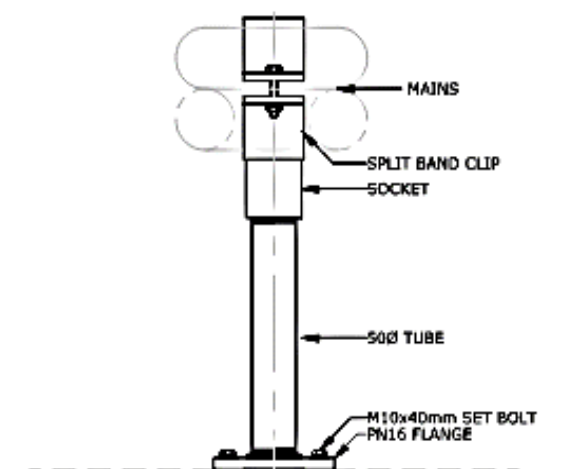
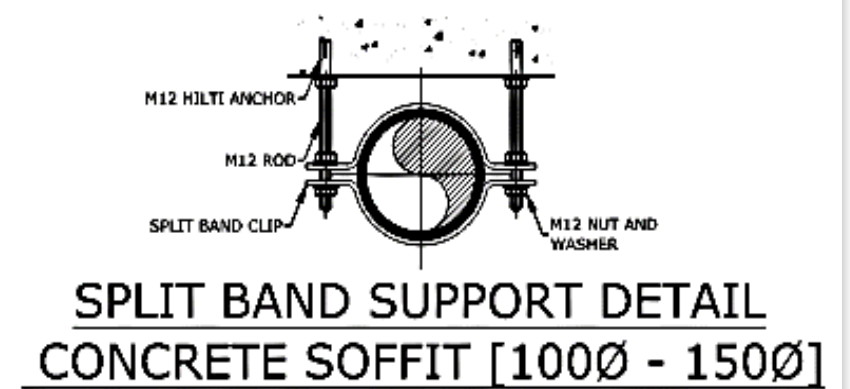
RIBA Stage 6

Commissioning, Testing, Training & Maintenance Package



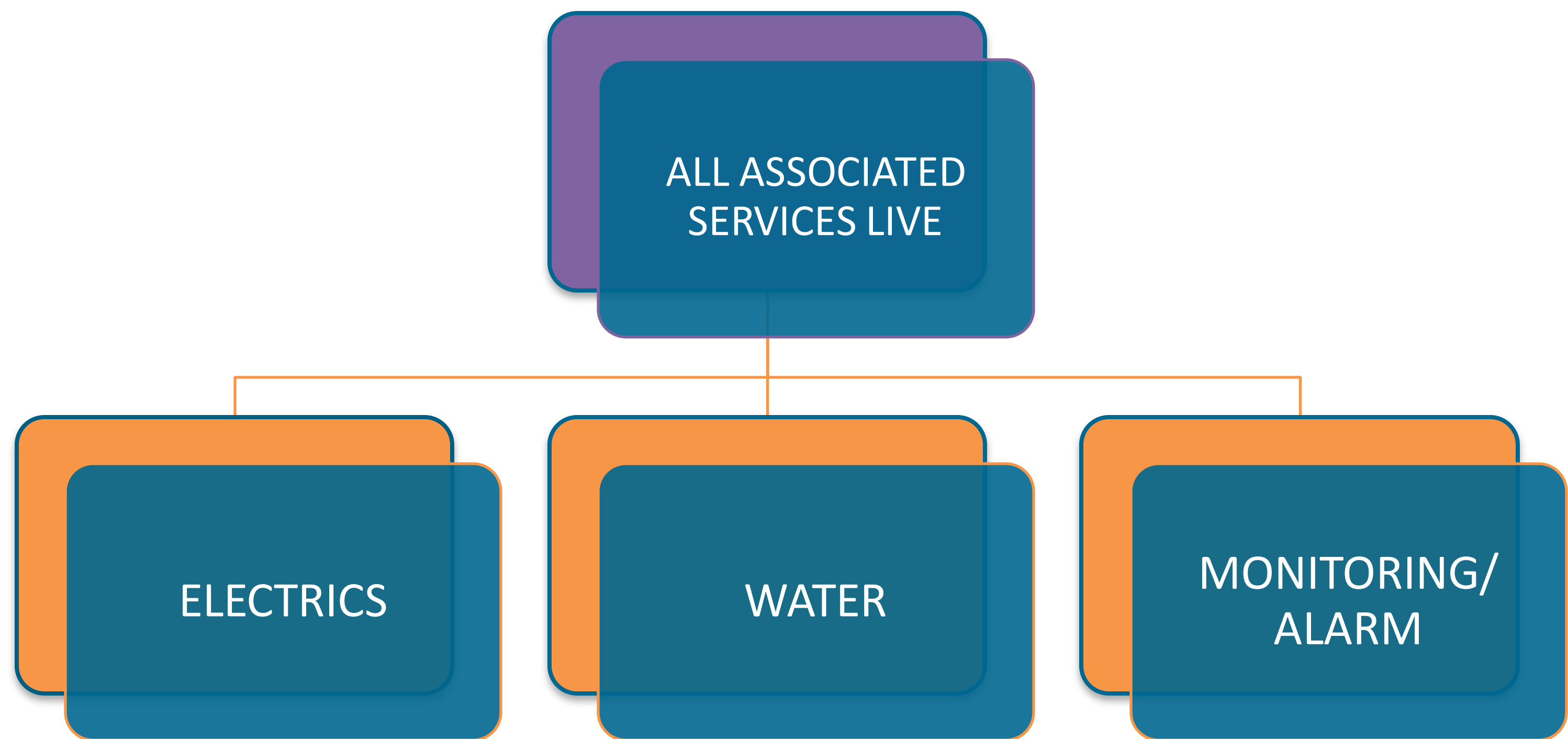
PUMP INITIATION / TEST SYSTEM (N.T.S.)
CONSISTING OF 5 (no) INDEPENDANT P/SWITCHES

IF IN DOUBT ASK

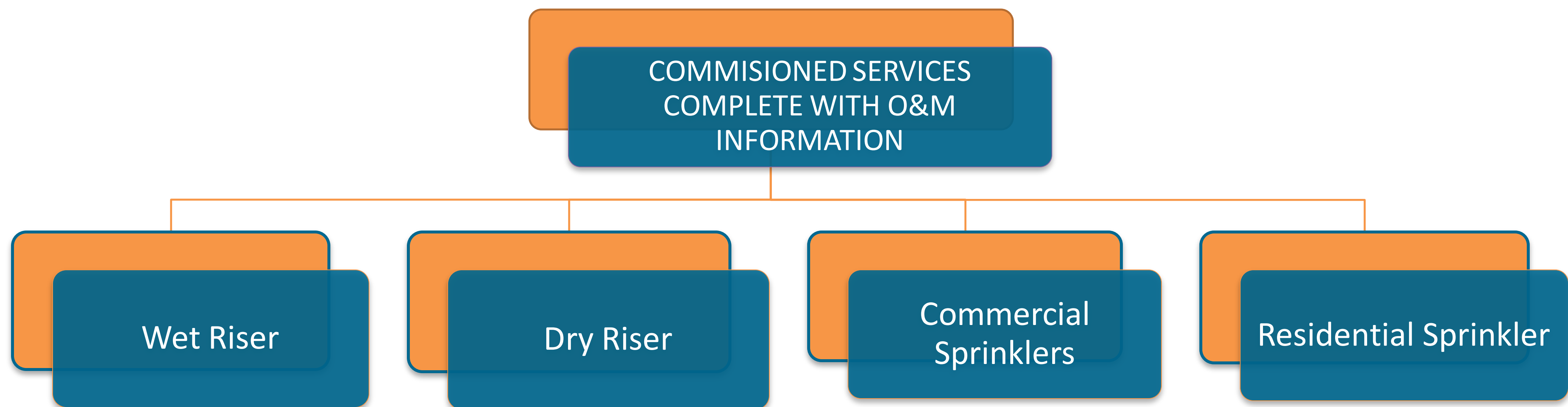


TYPICAL PIPE STAND DETAIL

RIBA Stage 6 - Input

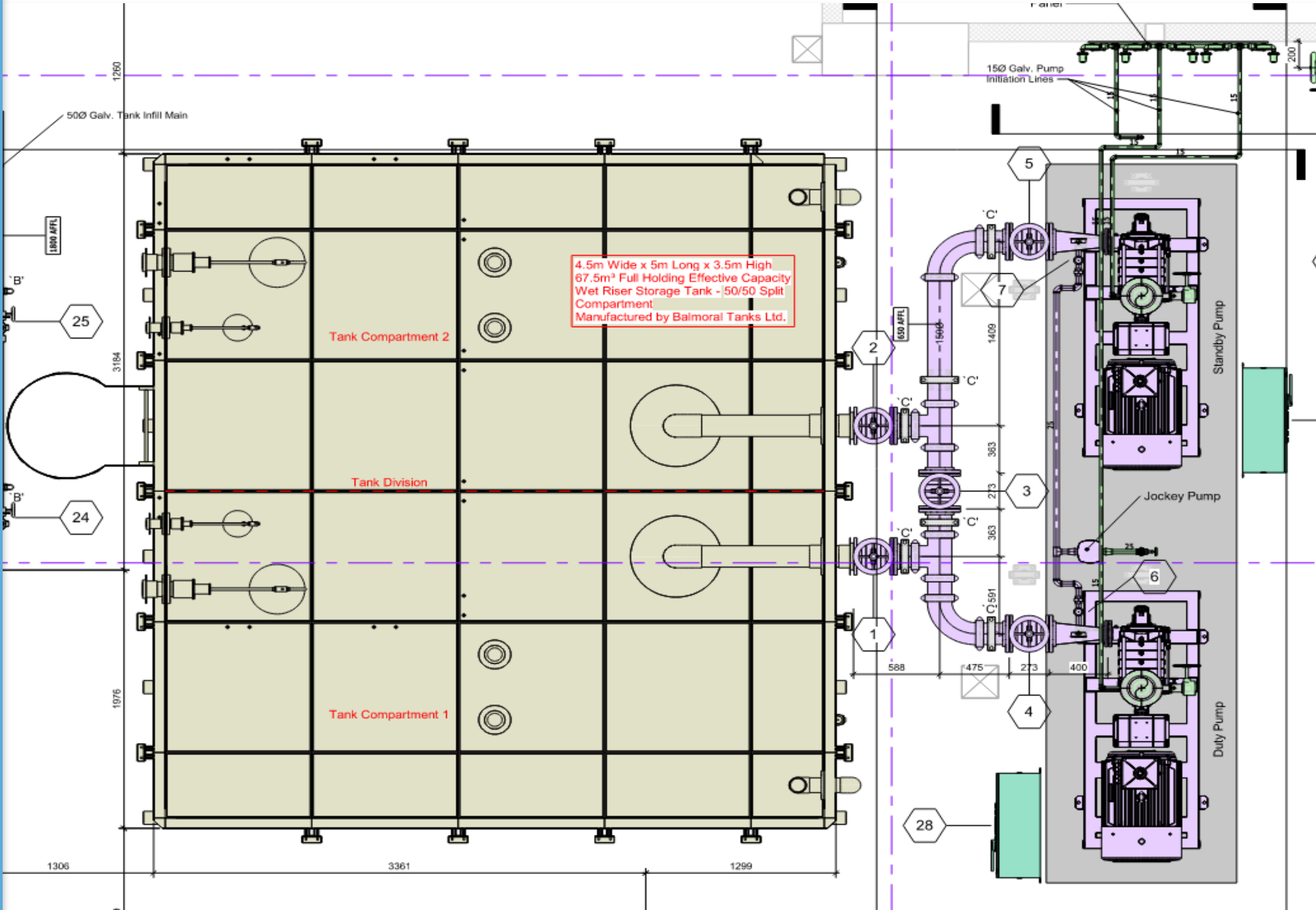
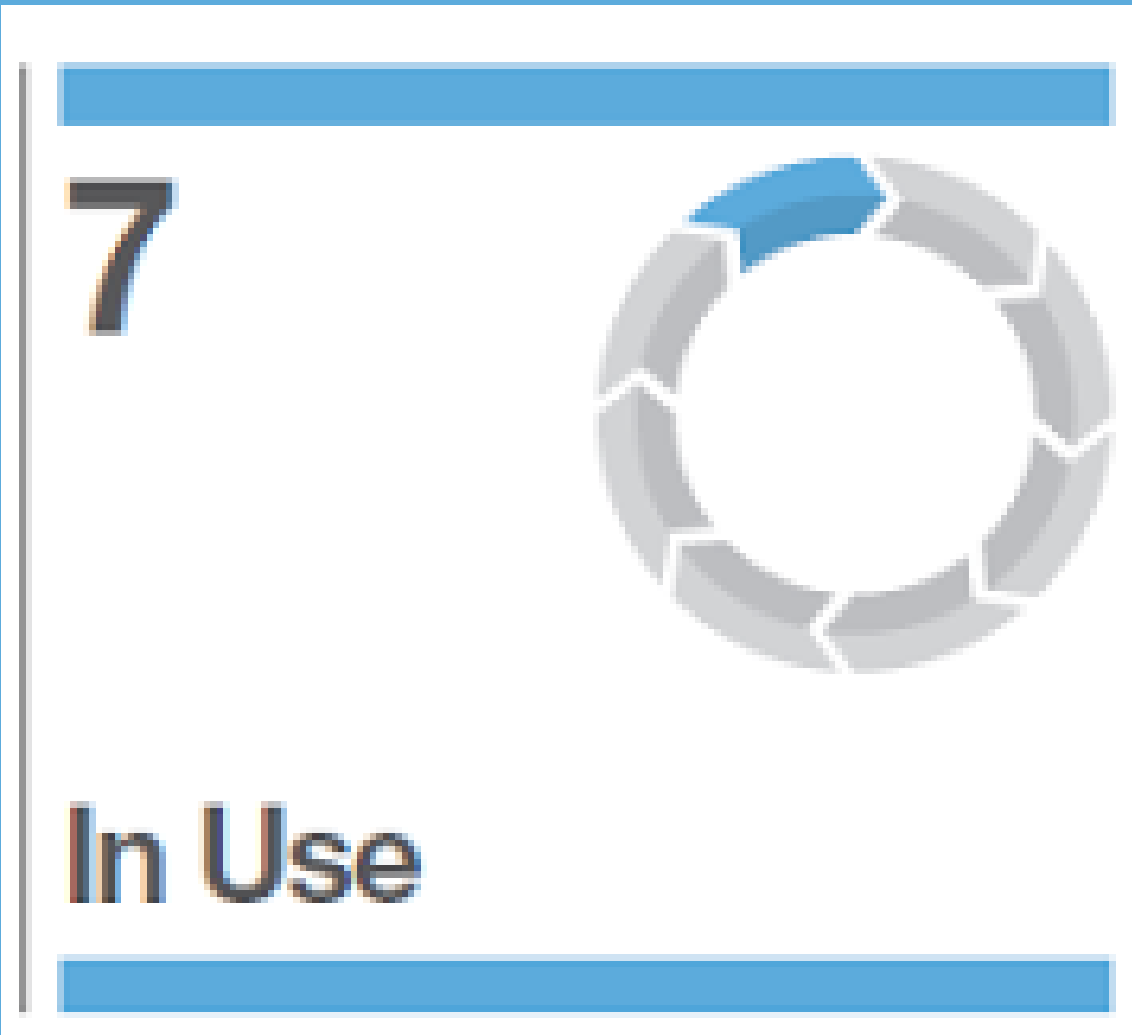


RIBA Stage 6 - Output



RIBA Stage 7

Continuing System Maintenance & Legal Obligations
After Handover



RIBA Stage 7

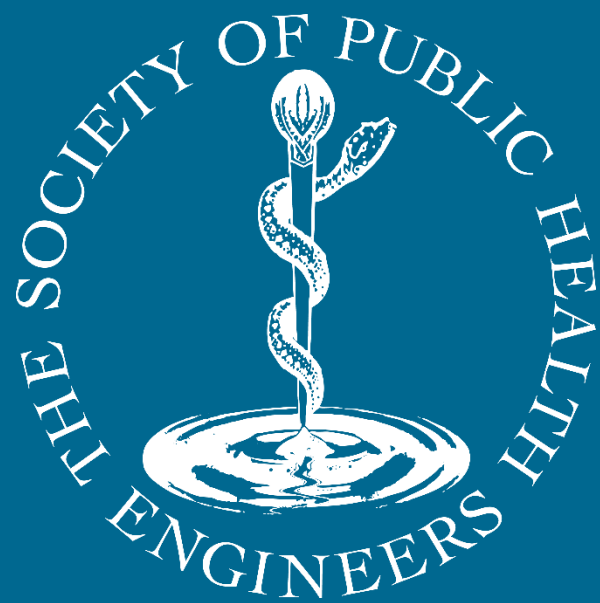
FIRE SUPPRESSION SYSTEMS TO BE SERVICED AND MAINTAINED INLINE WITH
MANUFACTURERS REQUIREMENTS & RELEVANT STANDARDS

POTENTIAL RISKS

UNDER SIZED WATER SUPPLY INFRASTRUCTURE – TANK SIZE, PUMP SIZE
UN MAINTAINED SYSTEMS – VOID CERTIFICATION
LEGAL NON-COMPLIANCE
FAILURE TO OBTAIN BUILDING SIGN OFF
LIQUIDATED AND ASCERTAINED DAMAGES
WASTE WATER IMPLICATIONS 450,000 Ltrs

slido

Thank
you



Introba