

# EMMANUEL CATHOLIC COLLEGE CAFETERIA

## MECHANICAL SERVICES

| DRAWING REGISTER |            |                              |     |                   |          |
|------------------|------------|------------------------------|-----|-------------------|----------|
| No.              | DISCIPLINE | TITLE                        | REV | ISSUE             | DATE     |
| M001             | MECHANICAL | COVERPAGE                    | B   | ISSUED FOR TENDER | 19.11.25 |
| M101             | MECHANICAL | GROUND FLOOR DEMOLITION PLAN | B   | ISSUED FOR TENDER | 19.11.25 |
| M102             | MECHANICAL | ROOF LEVEL DEMOLITION PLAN   | B   | ISSUED FOR TENDER | 19.11.25 |
| M201             | MECHANICAL | GROUND FLOOR NEW WORKS PLAN  | B   | ISSUED FOR TENDER | 19.11.25 |
| M202             | MECHANICAL | ROOF LEVEL NEW WORKS PLAN    | B   | ISSUED FOR TENDER | 19.11.25 |
| M301             | MECHANICAL | SECTIONS                     | B   | ISSUED FOR TENDER | 19.11.25 |
| M401             | MECHANICAL | DETAILS                      | B   | ISSUED FOR TENDER | 19.11.25 |

| DIFFUSION SCHEDULE |                                        |             |                                                                   |
|--------------------|----------------------------------------|-------------|-------------------------------------------------------------------|
| ITEM               | DESCRIPTION                            | SIZE        | COMMENTS                                                          |
| L1                 | LINEAR SLOT SUPPLY AIR DIFFUSER (20mm) | 1 SLOT 600L | C/W INSULATED MATTE BLACK CUSHION HEAD & DEFLECTOR. BD WHEN SHOWN |
| R1                 | HALF CHEVRON RETURN AIR GRILLE         | 600x600     | C/W INSULATED MATTE BLACK DUCT BOOT & OBD                         |
| S1                 | SUPPLY AIR DIFFUSER                    | 450x450     | C/W INSULATED MATTE BLACK CUSHION HEAD & BD WHEN SHOWN            |
| S2                 | SUPPLY AIR DIFFUSER                    | 600x600     | C/W INSULATED MATTE BLACK CUSHION HEAD & BD WHEN SHOWN            |
| T1                 | HALF CHEVRON TRANSFER AIR GRILLE       | 300x300     | C/W INSULATED MATTE BLACK CUSHION HEAD                            |
| WP1                | WEATHERPROOF LOUVRE                    | 1200x450    | WALL MOUNTED C/W INSULATED CGI PLENUM                             |

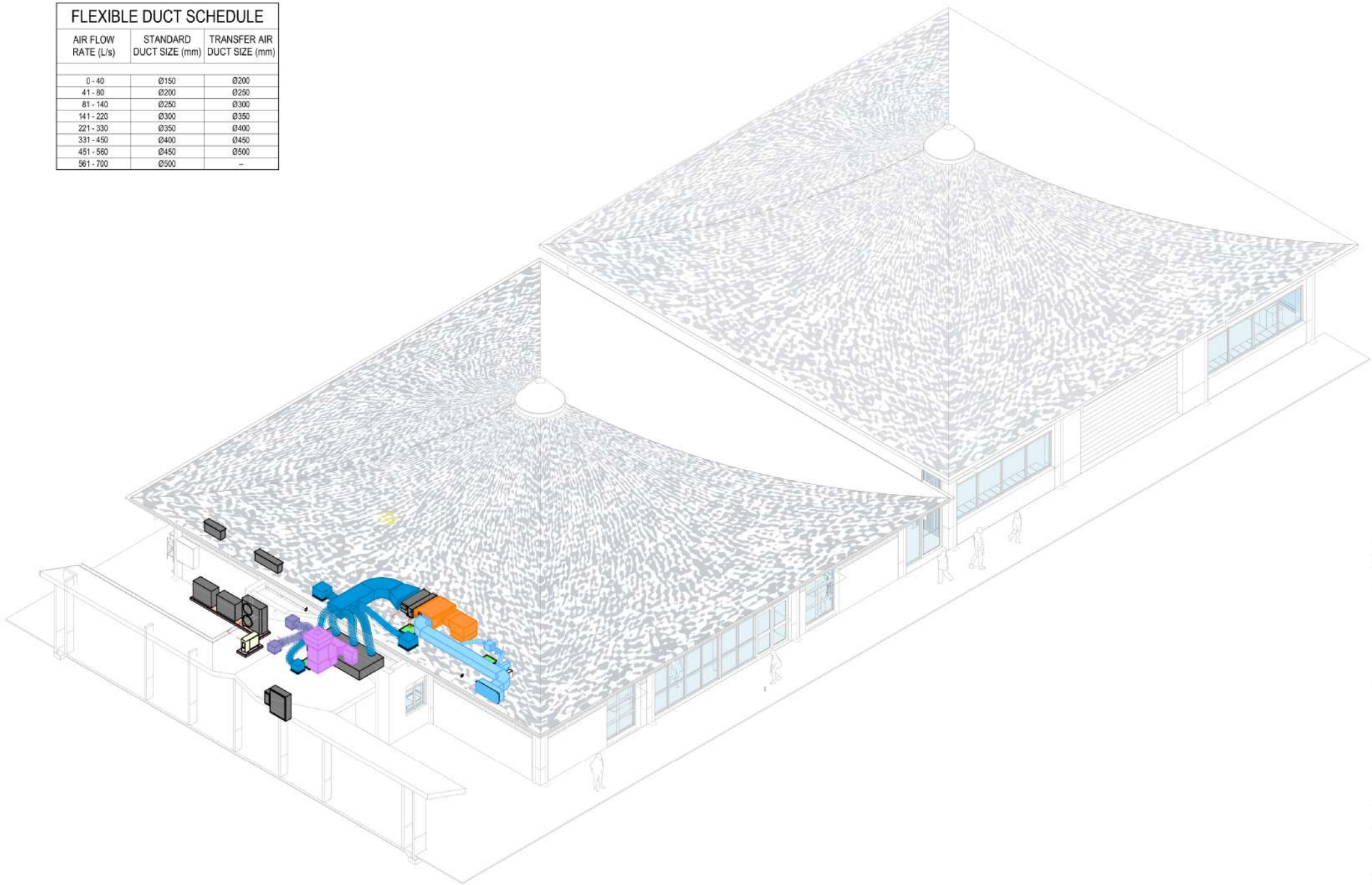
### LEGEND MECHANICAL

|                                                                                     |                                                                                                   |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|    | UNINSULATED DUCTWORK                                                                              |
|    | GSS DUCTWORK INSULATED INTERNALLY TO ACHIEVE R=1.2m²/KW (50mm)                                    |
|    | GSS DUCTWORK INSULATED INTERNALLY TO ACHIEVE R=2.0m²/KW (75mm)                                    |
|    | GSS DUCTWORK INSULATED INTERNALLY TO ACHIEVE R=3.0m²/KW (100mm)                                   |
|    | GSS DUCTWORK INSULATED EXTERNALLY TO ACHIEVE R=1.2m²/KW (50mm)                                    |
|   | FLEXIBLE DUCTWORK INSULATED EXTERNALLY TO ACHIEVE R=1.0m²/KW                                      |
|  | UNINSULATED FLEXIBLE DUCTWORK                                                                     |
|  | FLEXIBLE DUCT CONNECTION                                                                          |
|  | ACCESS PANEL IN DUCT                                                                              |
|  | AIR DIFFUSER TYPE S1, 100L/s. SEE SCHEDULE                                                        |
|  | DOOR UNDERCUT BY 25mm                                                                             |
|  | TEMPERATURE SENSOR LOCATED ON WALL AT 1500 AFL. FINAL LOCATION TO BE CONFIRMED BY ARCHITECT.      |
|  | CONTROL STATION LOCATED ON WALL AT 1000 AFL. FINAL LOCATION TO BE CONFIRMED BY ARCHITECT.         |
|  | AFTER HOURS PUSH BUTTON LOCATED ON WALL AT 1000 AFL. FINAL LOCATION TO BE CONFIRMED BY ARCHITECT. |

| FLEXIBLE DUCT SCHEDULE |                         |                             |
|------------------------|-------------------------|-----------------------------|
| AIR FLOW RATE (L/s)    | STANDARD DUCT SIZE (mm) | TRANSFER AIR DUCT SIZE (mm) |
| 0 - 40                 | Ø150                    | Ø200                        |
| 41 - 80                | Ø200                    | Ø250                        |
| 81 - 140               | Ø250                    | Ø300                        |
| 141 - 220              | Ø300                    | Ø350                        |
| 221 - 330              | Ø350                    | Ø400                        |
| 331 - 450              | Ø400                    | Ø450                        |
| 451 - 560              | Ø450                    | Ø500                        |
| 561 - 700              | Ø500                    | —                           |

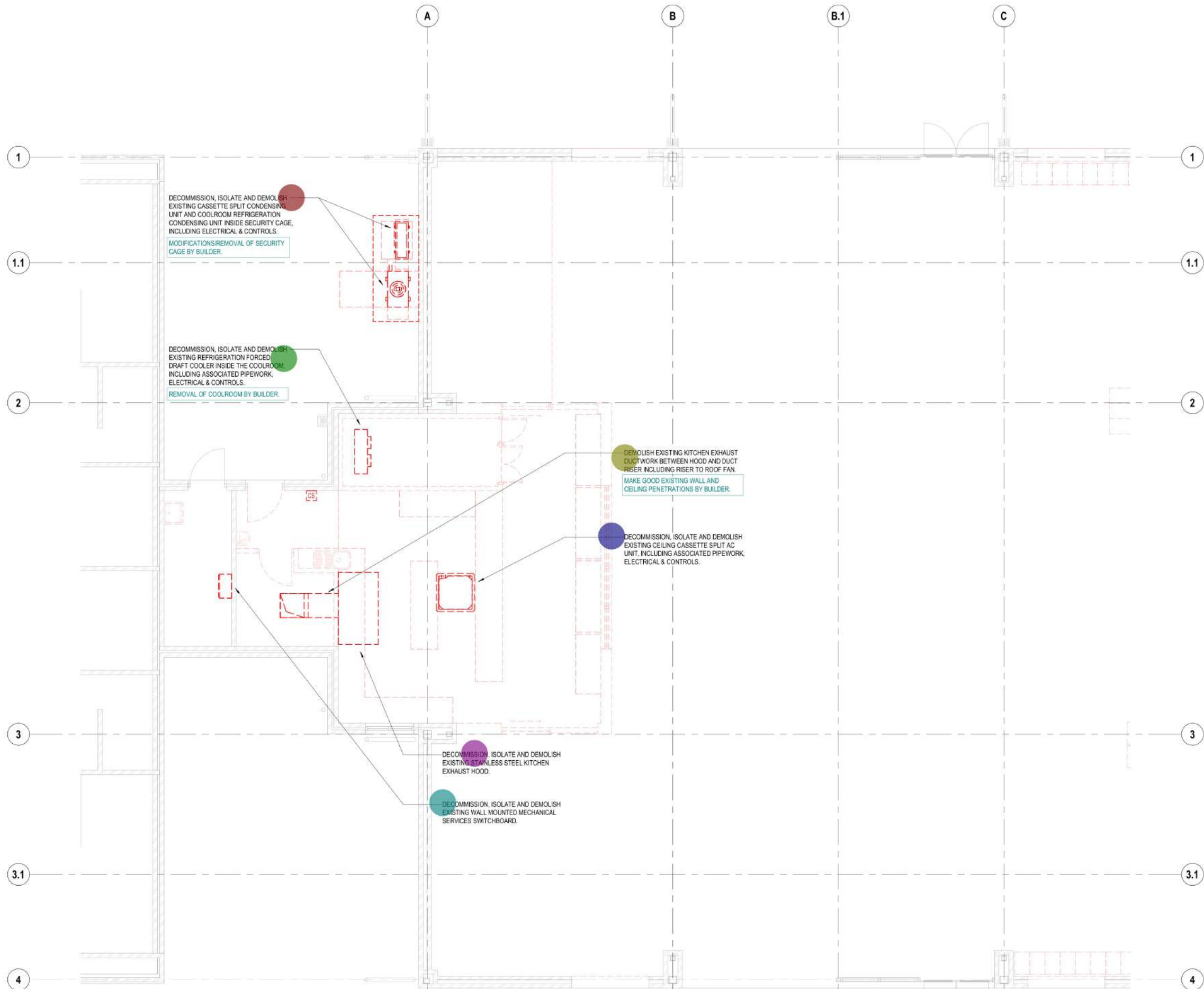
### NOTES

- THIS DRAWING SET IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION.
- ALL DUCT DIMENSIONS ARE CLEAR AIRWAY SIZE.
- ALL FLEXIBLE DUCTWORK RUNS ARE NOT TO EXCEED 6m IN LENGTH.
- ACCESSIBLE SPIGOT BALANCING DAMPERS TO BE INCLUDED AS REQUIRED FOR SUCCESSFUL COMMISSIONING.
- FLEXIBLE DUCT CONNECTIONS TO BE INSTALLED ON ALL MECHANICAL EQUIPMENT.
- WHERE DUCT HEIGHTS PREVENT THE USE OF CIRCULAR SPIGOTS, OVAL SPIGOT CONNECTIONS MAY BE USED.
- FINAL LOCATION OF DUCTING AND EQUIPMENT TO BE CHECKED ON SITE TO SUIT EXISTING SERVICES THAT MAY BE PRESENT. CONTRACTOR TO ALLOW FOR MINOR OFFSETS AND TRANSITIONS AS REQUIRED.
- THE MECHANICAL CONTRACTOR SHALL INCLUDE ALL REQUIRED SECONDARY STEEL WORKS, UNISTRUTS, DROP RODS ETC FOR INSTALLATION OF DUCTWORK AND EQUIPMENTS.
- PROVIDE SAFETY DRIP TRAYS BELOW ALL DUCTED FAN COIL UNITS, DUCT MOUNTED COILS, COIL VALVE ASSEMBLIES AND COMMS ROOM FAN COIL UNITS.



|                                                                                                                                                                                                                                                   |                     |                                                                                       |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|----------------|
| B                                                                                                                                                                                                                                                 | ISSUED FOR TENDER   | 19.11.25                                                                              | BM             |
| A                                                                                                                                                                                                                                                 | ISSUED FOR REVIEW   | 24.10.25                                                                              | BM             |
| No.                                                                                                                                                                                                                                               | AMENDMENT           | DATE                                                                                  | CHKD           |
| TENDER ISSUE                                                                                                                                                                                                                                      |                     |                                                                                       |                |
|  Steens Gray & Kelly<br>Suite 2, 257 York St, SUBIACO WA 6008<br>Ph: (08) 9389 8393 Fax: (08) 9389 8374<br>MECHANICAL CONSULTANTS Web: http://www.sgk.com.au |                     |                                                                                       |                |
| CLIENT<br>HODGE COLLARD PRESTON                                                                                                                                                                                                                   |                     |                                                                                       |                |
| PROJECT<br>EMMANUEL CATHOLIC COLLEGE CAFETERIA<br>122 HAMMOND ROAD, SUCCESS WA                                                                                                                                                                    |                     |                                                                                       |                |
| TITLE<br>MECHANICAL                                                                                                                                                                                                                               |                     |                                                                                       |                |
| COVERPAGE                                                                                                                                                                                                                                         |                     |                                                                                       |                |
| DATE                                                                                                                                                                                                                                              | 19.11.25            |  |                |
| DRAWN                                                                                                                                                                                                                                             | LS                  | SCALE (A1):                                                                           | JOB No. 25 036 |
| DESIGNED                                                                                                                                                                                                                                          | IC                  | 1:1                                                                                   |                |
| APPROVED                                                                                                                                                                                                                                          | BM                  |                                                                                       |                |
| SEE REF<br>SCHEDULES<br>FOR DETAILS                                                                                                                                                                                                               | DRAWING No.<br>M001 | REV<br>B                                                                              |                |

NOTES  
1. FOR TYPICAL NOTES, LEGENDS & SCHEDULES REFER TO  
DRAWING M001.



- Decommission, Isolate And Demolish Existing Cassette Split Condensing
- "Decommission, Isolate And Demolish Existing Refrigeration Forced
- Demolish Existing Kitchen Exhaust Ductwork Between Hood And Duct
- Decommission, Isolate And Demolish Existing Ceiling Cassette Split Ac
- Decommission, Isolate And Demolish Existing Stainless Steel Kitchen Exhaust Hood
- Decommission, Isolate And Demolish Existing Wall Mounted Mechanical Services Switchboard

- 1.0 EA
- 1.0 EA
- 1.0 EA
- 1.0 EA
- 1.0 EA
- 1.0 EA

|   |                   |          |    |
|---|-------------------|----------|----|
| B | ISSUED FOR TENDER | 19.11.25 | BM |
| A | ISSUED FOR REVIEW | 24.10.25 | BM |

|    |           |      |      |
|----|-----------|------|------|
| No | AMENDMENT | DATE | CHKD |
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TENDER ISSUE

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CLIENT  
HODGE COLLARD PRESTON

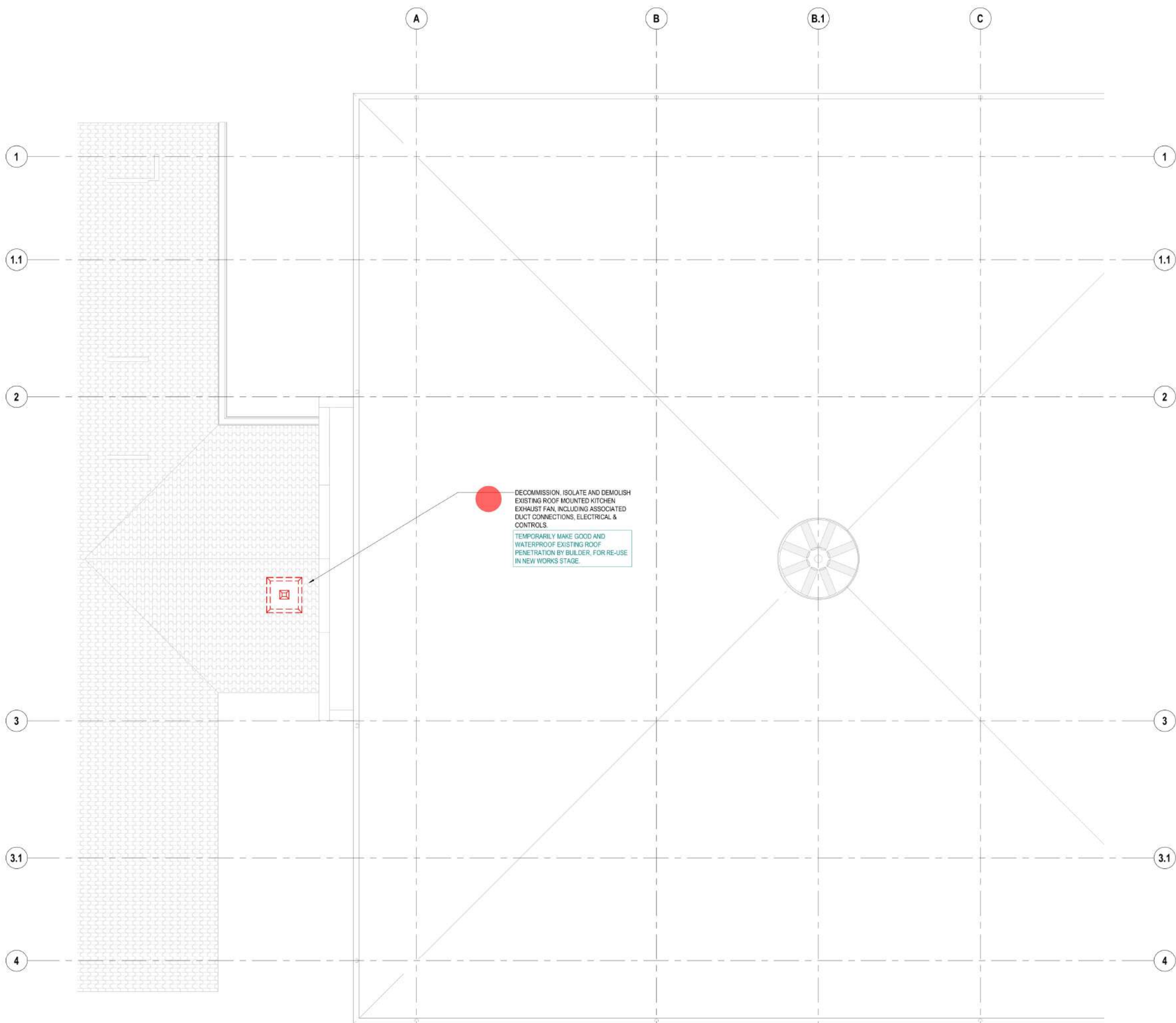
PROJECT  
EMMANUEL CATHOLIC COLLEGE  
CAFETERIA  
122 HAMMOND ROAD, SUCCESS WA

TITLE  
MECHANICAL  
GROUND FLOOR DEMOLITION PLAN

|          |          |             |                    |
|----------|----------|-------------|--------------------|
| DATE     | 19.11.25 | Scale       | 0mm 10 20 30 40 50 |
| DRAWN    | LS       | SCALE (A1): | JOB No. 25 036     |
| DESIGNED | IC       | 1:50        |                    |
| APPROVED | BM       |             |                    |

|             |      |
|-------------|------|
| REV         | B    |
| DRAWING No. | M101 |

NOTES  
1. FOR TYPICAL NOTES, LEGENDS & SCHEDULES REFER TO  
DRAWING M001.



Decommission, Isolate And Demolish Existing Roof Mounted Kitchen

1.0 EA

|   |                   |          |    |
|---|-------------------|----------|----|
| B | ISSUED FOR TENDER | 19.11.25 | BM |
| A | ISSUED FOR REVIEW | 24.10.25 | BM |

|    |           |      |      |
|----|-----------|------|------|
| No | AMENDMENT | DATE | CHKD |
|----|-----------|------|------|

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CLIENT  
HODGE COLLARD PRESTON

PROJECT  
EMMANUEL CATHOLIC COLLEGE  
CAFETERIA  
122 HAMMOND ROAD, SUCCESS WA

TITLE  
MECHANICAL  
ROOF LEVEL DEMOLITION PLAN

|      |          |     |    |    |    |    |    |
|------|----------|-----|----|----|----|----|----|
| DATE | 19.11.25 | 0mm | 10 | 20 | 30 | 40 | 50 |
|------|----------|-----|----|----|----|----|----|

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| DRAWN | LS | SCALE (A1): | JOB No. |
|-------|----|-------------|---------|

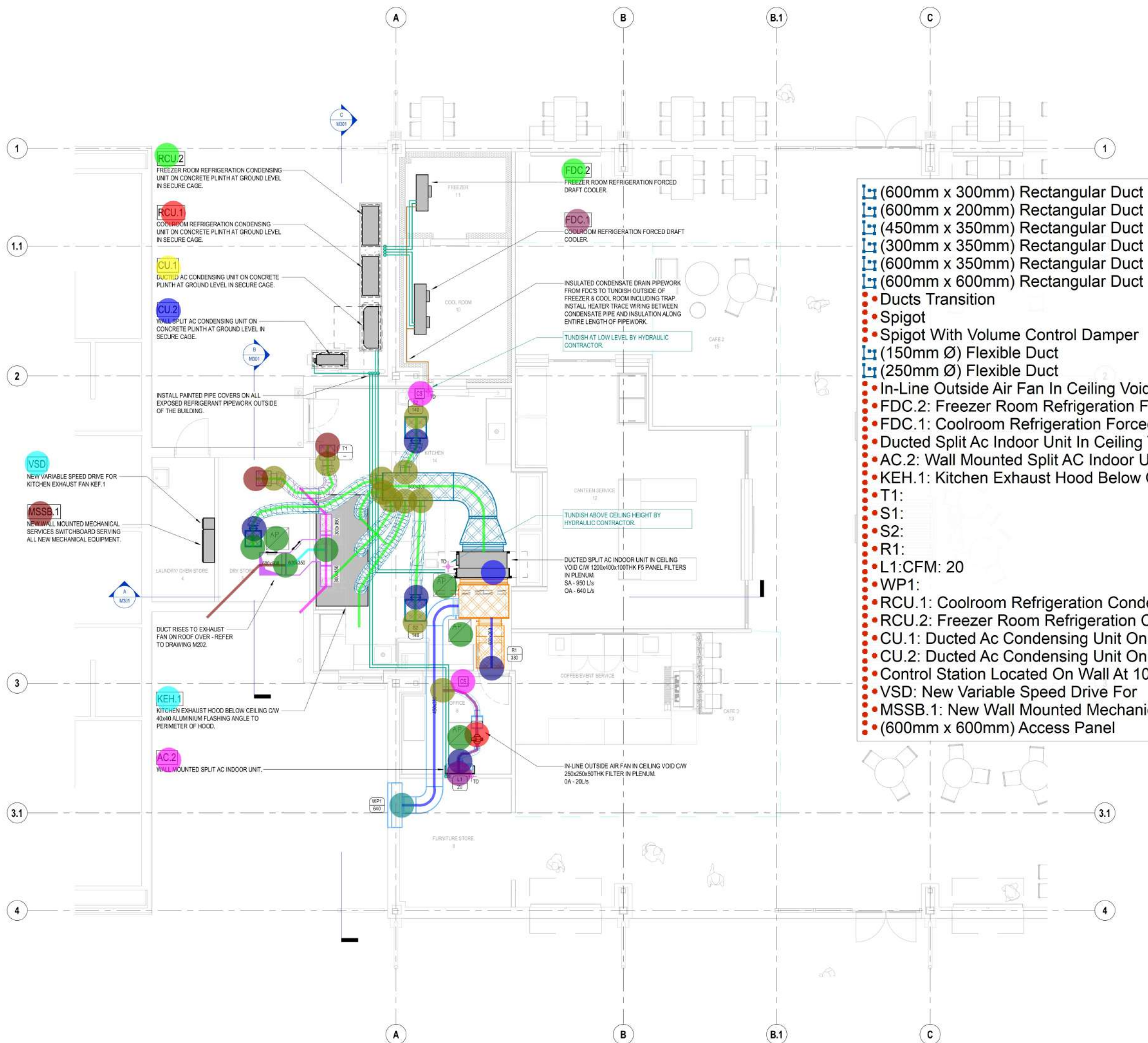
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|----------|----|------|--------|
| DESIGNED | JC | 1:50 | 25 036 |
|----------|----|------|--------|

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|----------|----|-------------|-----|
| APPROVED | BM | DRAWING No. | REV |
|----------|----|-------------|-----|

|      |   |
|------|---|
| M102 | B |
|------|---|



NOTES  
1. FOR TYPICAL NOTES, LEGENDS & SCHEDULES REFER TO DRAWING M001.



- (600mm x 300mm) Rectangular Duct 4.2 M
- (600mm x 200mm) Rectangular Duct 1.4 M
- (450mm x 350mm) Rectangular Duct 6.6 M
- (300mm x 350mm) Rectangular Duct 4.0 M
- (600mm x 350mm) Rectangular Duct 1.3 M
- (600mm x 600mm) Rectangular Duct 2.7 M
- Ducts Transition 2.0 EA
- Spigot 9.0 EA
- Spigot With Volume Control Damper 4.0 EA
- (150mm Ø) Flexible Duct 3.0 M
- (250mm Ø) Flexible Duct 21.4 M
- In-Line Outside Air Fan In Ceiling Void C/W 250 X 250 X 50 T... 1.0 EA
- FDC.2: Freezer Room Refrigeration Forced 1.0 EA
- FDC.1: Coolroom Refrigeration Forced 1.0 EA
- Ducted Split Ac Indoor Unit In Ceiling Void C/W 1200X400X100 1.0 EA
- AC.2: Wall Mounted Split AC Indoor Unit 1.0 EA
- KEH.1: Kitchen Exhaust Hood Below Ceiling C/W 40X40 Alu... 1.0 EA
- T1: 2.0 EA
- S1: 1.0 EA
- S2: 2.0 EA
- R1: 1.0 EA
- L1:CFM: 20 1.0 EA
- WP1: 1.0 EA
- RCU.1: Coolroom Refrigeration Condensing Unit On Concret... 1.0 EA
- RCU.2: Freezer Room Refrigeration Condensing 1.0 EA
- CU.1: Ducted Ac Condensing Unit On Concrete 1.0 EA
- CU.2: Ducted Ac Condensing Unit On Concrete 1.0 EA
- Control Station Located On Wall At 1000 Afl. Final Location T... 2.0 EA
- VSD: New Variable Speed Drive For 1.0 EA
- MSSB.1: New Wall Mounted Mechanical Services Switchboar... 1.0 EA
- (600mm x 600mm) Access Panel 4.0 EA

|   |                   |          |    |
|---|-------------------|----------|----|
| B | ISSUED FOR TENDER | 19.11.25 | BM |
| A | ISSUED FOR REVIEW | 24.10.25 | BM |

|    |           |      |      |
|----|-----------|------|------|
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PROJECT  
EMMANUEL CATHOLIC COLLEGE  
CAFETERIA  
122 HAMMOND ROAD, SUCCESS WA

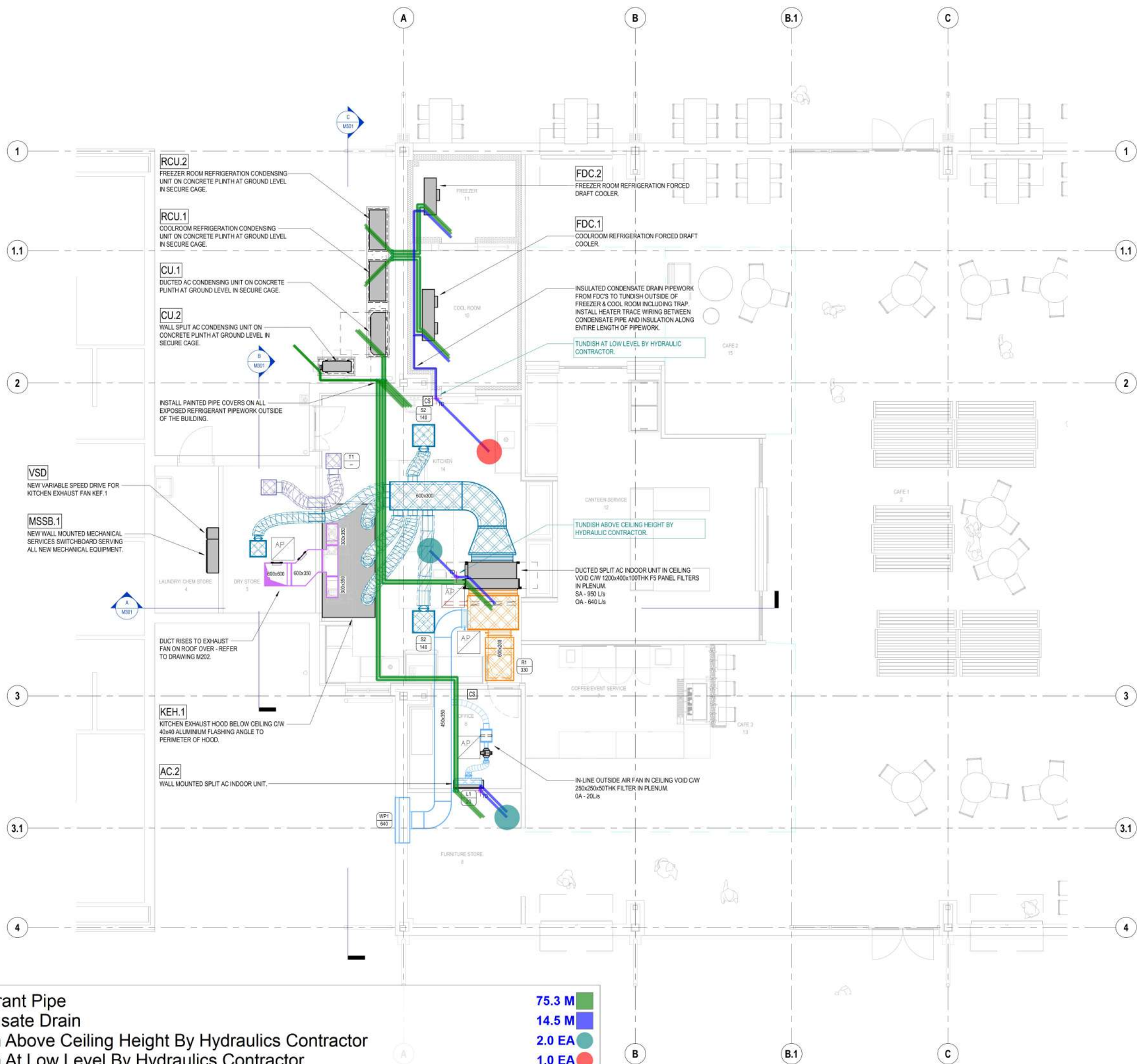
## MECHANICAL

### GROUND FLOOR NEW WORKS PLAN

|          |          |             |         |
|----------|----------|-------------|---------|
| DATE     | 19.11.25 | SCALE (A1): | JOB No. |
| DRAWN    | LS       | 1:50        | 25 036  |
| DESIGNED | IC       |             |         |
| APPROVED | BM       |             |         |

|             |     |
|-------------|-----|
| DRAWING No. | REV |
| M201        | B   |

NOTES  
1. FOR TYPICAL NOTES, LEGENDS & SCHEDULES REFER TO  
DRAWING M001.

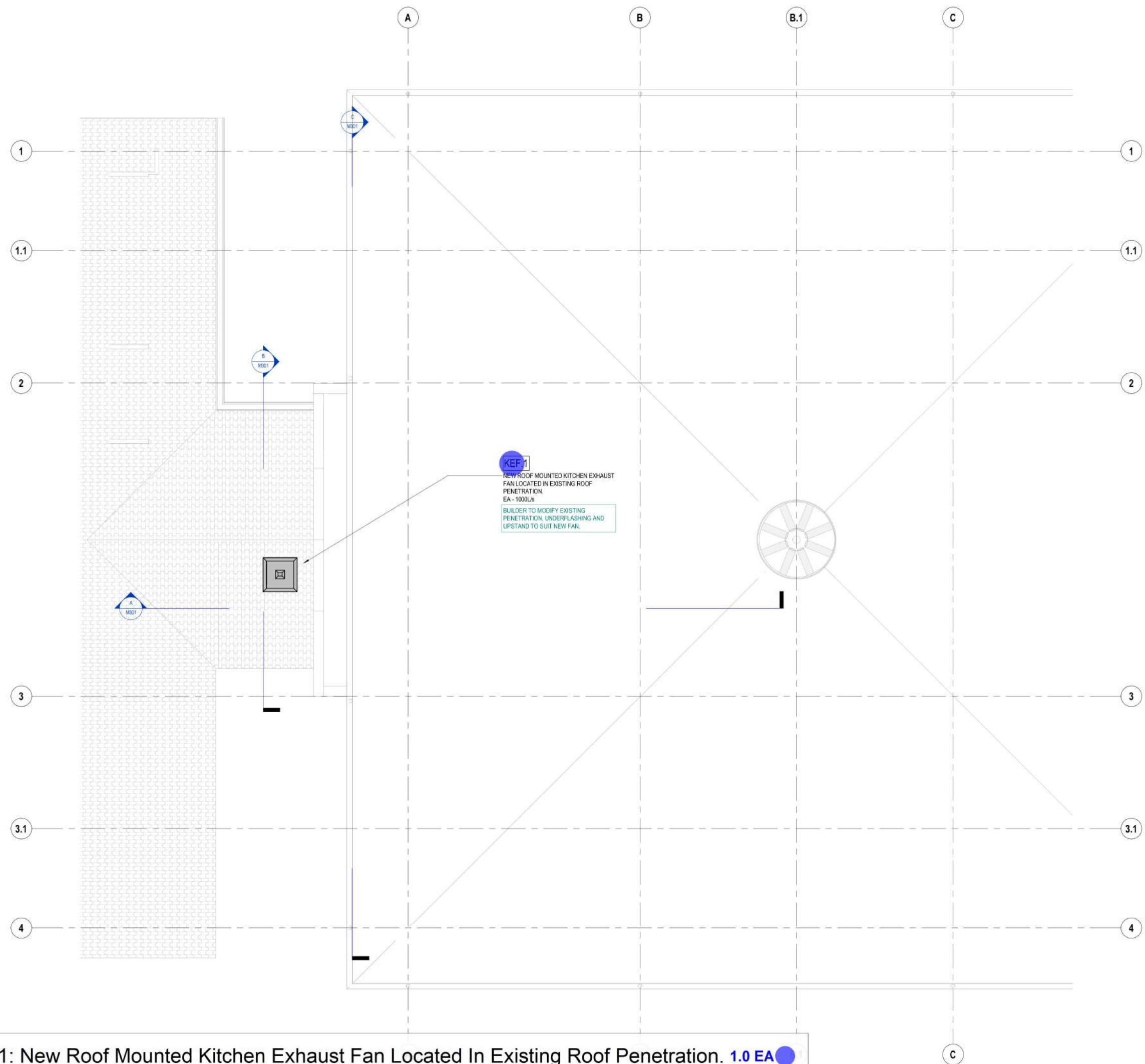


- Refrigerant Pipe
- Condensate Drain
- Tundish Above Ceiling Height By Hydraulics Contractor
- Tundish At Low Level By Hydraulics Contractor

- 75.3 M
- 14.5 M
- 2.0 EA
- 1.0 EA

|                                                                                                                                                                             |                   |                    |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------|----------------|
| B                                                                                                                                                                           | ISSUED FOR TENDER | 19.11.25           | BM             |
| A                                                                                                                                                                           | ISSUED FOR REVIEW | 24.10.25           | BM             |
| No                                                                                                                                                                          | AMENDMENT         | DATE               | CHKD           |
| TENDER ISSUE                                                                                                                                                                |                   |                    |                |
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| CLIENT<br>HODGE COLLARD PRESTON                                                                                                                                             |                   |                    |                |
| PROJECT<br>EMMANUEL CATHOLIC COLLEGE<br>CAFETERIA<br>122 HAMMOND ROAD, SUCCESS WA                                                                                           |                   |                    |                |
| TITLE<br>MECHANICAL<br>GROUND FLOOR NEW WORKS PLAN                                                                                                                          |                   |                    |                |
| DATE                                                                                                                                                                        | 19.11.25          | 0mm 10 20 30 40 50 |                |
| DRAWN                                                                                                                                                                       | LS                | SCALE (A1):        | JOB No. 25 036 |
| DESIGNED                                                                                                                                                                    | IC                | 1:50               |                |
| APPROVED                                                                                                                                                                    | BM                | DRAWING No.        | REV            |
|                                                                                                                                                                             |                   | M201               | B              |

NOTES  
1. FOR TYPICAL NOTES, LEGENDS & SCHEDULES REFER TO  
DRAWING M001.



•• KEF-1: New Roof Mounted Kitchen Exhaust Fan Located In Existing Roof Penetration. 1.0 EA

|   |                   |          |    |
|---|-------------------|----------|----|
| B | ISSUED FOR TENDER | 19.11.25 | BM |
| A | ISSUED FOR REVIEW | 24.10.25 | BM |

|    |           |      |      |
|----|-----------|------|------|
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HODGE COLLARD PRESTON

PROJECT  
EMMANUEL CATHOLIC COLLEGE  
CAFETERIA  
122 HAMMOND ROAD, SUCCESS WA

TITLE  
MECHANICAL

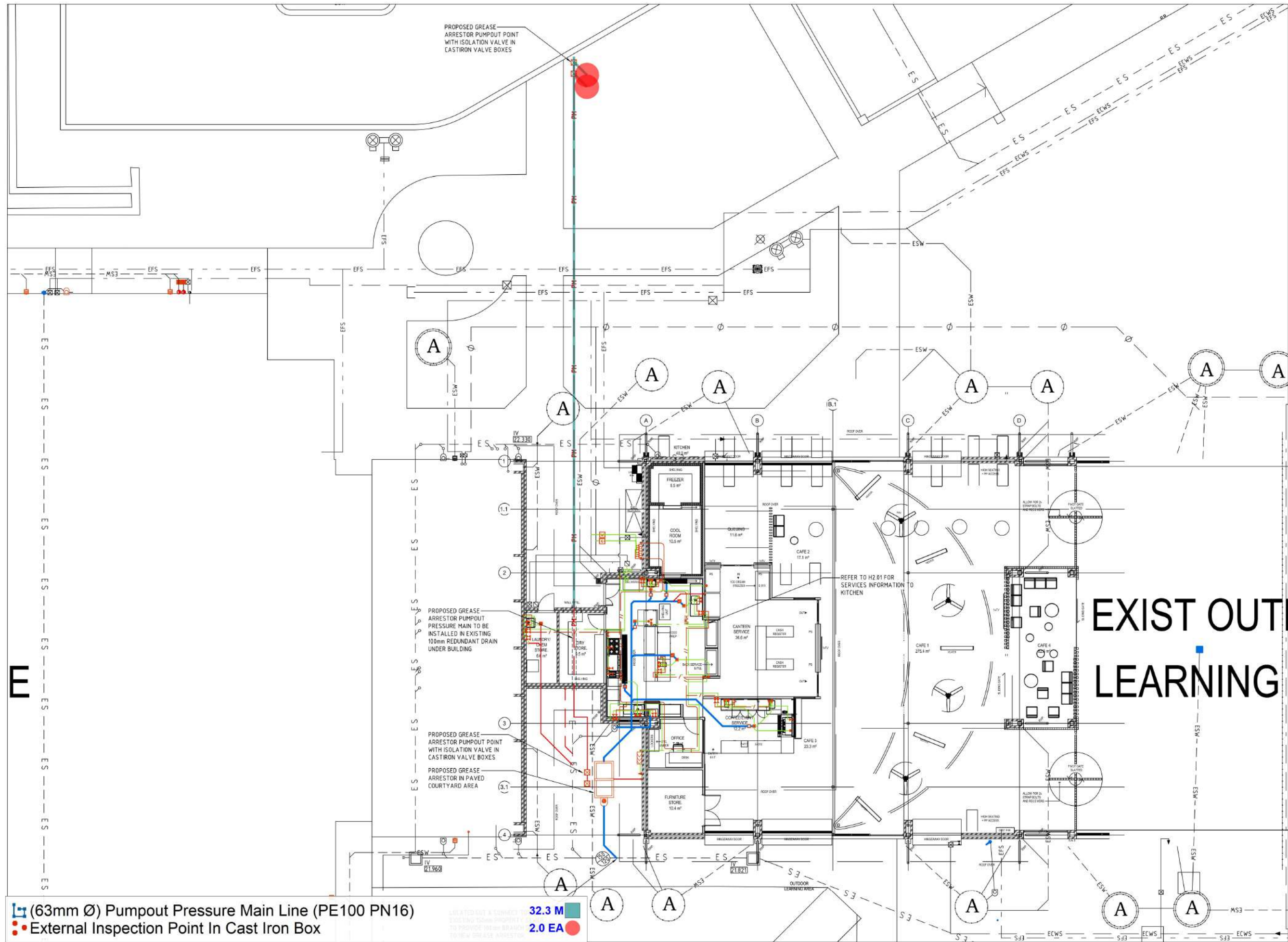
ROOF LEVEL NEW WORKS PLAN

|          |          |             |         |
|----------|----------|-------------|---------|
| DATE     | 19.11.25 | SCALE (A1): | JOB No. |
| DRAWN    | LS       | 1:50        | 25 036  |
| DESIGNED | JC       |             |         |
| APPROVED | BM       |             |         |

|          |          |             |     |
|----------|----------|-------------|-----|
| DATE     | 19.11.25 | DRAWING No. | REV |
| 19.11.25 | M202     |             | B   |







(63mm Ø) Pumpout Pressure Main Line (PE100 PN16)  
External Inspection Point In Cast Iron Box

32.3 M  
2.0 EA

CAFETERIA HYDRAULIC SERVICES SITE PLAN  
SCALE 1:100

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| NO | REVISION          | DATE     |
|----|-------------------|----------|
| T0 | ISSUED FOR TENDER | 14.11.25 |
| T1 | ISSUED FOR TENDER | 18.12.25 |

### PLAN NOTES



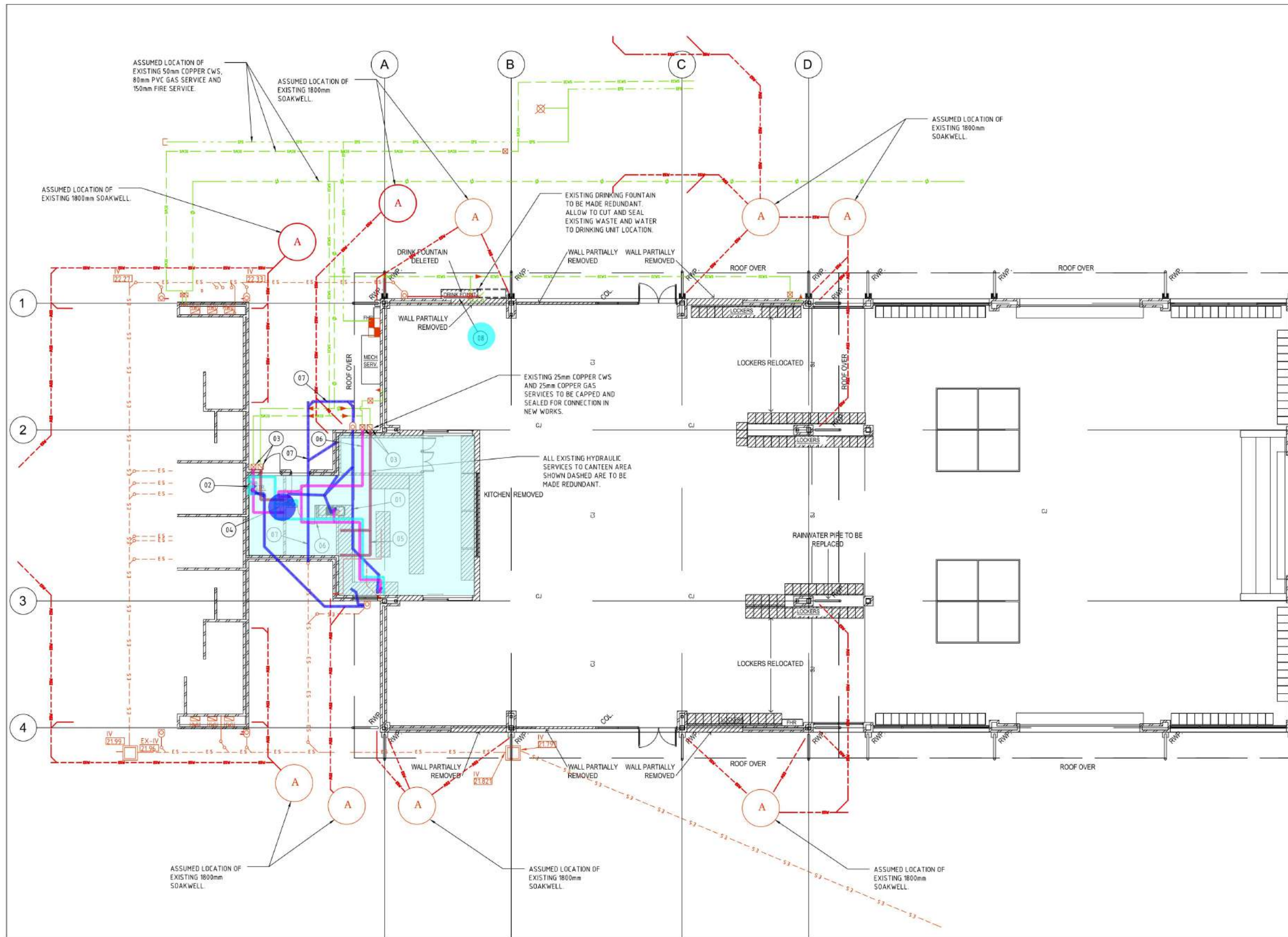
Client  
EMMANUEL CATHOLIC COLLEGE  
122 HAMMOND ROAD SUCCESS WA 6164

Project  
EMMANUEL CATHOLIC COLLEGE  
CAFETERIA

Drawing Title  
HYDRAULIC SERVICES  
SITE PLAN

| Drawn          | Checked    | Scale @ A1 |
|----------------|------------|------------|
| DJC            | PJC        | 1:100@A1   |
| Date           | Job Number |            |
| SEP 2025       | 1007-16    |            |
| Drawing Number | Revision   |            |

H1.01 T1



- Remove Existing DWV Waste Pipe 39.5 M
- Remove Existing Cold Water Pipe 20.9 M
- Remove Existing Hot Water Pipe 15.3 M
- Remove Existing Gas Pipe 11.6 M
- Remove Existing Hot Water Unit Installed In Laundry To Be Made Redundant 1.0 EA
- Remove Existing Drinking Fountain To Be Made Redundant 1.0 EA
- Existing Hydraulic Services To Canteen & laundry Area Made Redundant. Contractor To Allow To Cut, Seal An... 67.7 SQ M

## GENERAL NOTES

- G001 ALL EXISTING SERVICES MADE REDUNDANT BY THESE WORKS ARE TO BE REMOVED AND DISPOSED OFF SITE.
- G002 ALL SERVICE SHUT DOWNS REQUIRED FOR THESE WORKS ARE TO BE COORDINATED WITH THE PROJECT MANAGER. CONTRACTORS ARE REQUIRED TO PROVIDE PROGRAM LISTING SHUT DOWN TIMES TO THE PROJECT MANAGER FOR REVIEW WITH THE COLLEGE. ALLOW ALL COSTS FOR SHUT DOWN WORKS TO BE CARRIED OUT OUTSIDE NORMAL WORKING HOURS SHOULD THIS BE REQUESTED BY THE PROJECT MANAGER.
- G003 THE LOCATION OF EXISTING SERVICES ARE ASSUMED AND TAKEN FROM COLLEGE AS-CONSTRUCTED RECORDS. CONTRACTORS ARE TO ALLOW ALL COSTS FOR ELECTRONIC TRACING, SCANNING, CCTV DRAIN CAMERA INSPECTIONS AND EXCAVATIONS TO CONFIRM LOCATION ON SITE.

## PLAN NOTES

- 01 EXISTING HYDRAULIC SERVICES TO CANTEEN AREA MADE REDUNDANT. CONTRACTOR TO ALLOW TO CUT, SEAL AND REMOVE ALL REDUNDANT HOT AND COLD WATER SERVICES LOCATED IN CEILING SPACE AND GAS SERVICES IN CEILING SPACE. CONTRACTOR TO CUT CAP AND SEAL ALL REDUNDANT FIXTURE WASTE CONNECTIONS BELOW EXISTING SLAB LEVEL AND MAKE GOOD AFTER DEMOLITION.
- 02 EXISTING HYDRAULIC SERVICES TO LAUNDRY MADE REDUNDANT. CONTRACTOR TO ALLOW TO CUT, SEAL AND REMOVE ALL REDUNDANT HOT AND COLD WATER SERVICES LOCATED IN CEILING SPACE AND GAS SERVICES IN CEILING SPACE. CONTRACTOR TO CUT CAP AND SEAL ALL REDUNDANT FIXTURE WASTE CONNECTIONS BELOW EXISTING SLAB LEVEL AND MAKE GOOD AFTER DEMOLITION.
- 03 EXISTING 25mm GAS AND CWS SUPPLIED TO EXISTING CANTEEN AND LAUNDRY AREAS TO BE MADE REDUNDANT. ALLOW TO CAP AND SEAL EXISTING ISOLATION VALVES IN THIS LOCATION AND REMOVE ALL REDUNDANT PIPE WORK.
- 04 EXISTING INSTANTANEOUS HOT WATER UNIT INSTALLED IN LAUNDRY TO BE MADE REDUNDANT. ALLOW TO REMOVE REDUNDANT FIXTURE AND CUT CAP AND SEAL EXISTING HWS, CWS AND GAS SUPPLY CONNECTIONS TO REDUNDANT GAS HWU. ALLOW TO MAKE GOOD EXISTING PENETRATION TO ROOF AFTER DEMOLITION.
- 05 EXISTING 25mm GAS SUPPLY TO CANTEEN AREA SHOWN DASHED TO BE MADE REDUNDANT. ALLOW TO REMOVE ALL REDUNDANT PIPEWORK AND MAKE GOOD.
- 06 EXISTING 25mm CWS SUPPLY TO CANTEEN AREA SHOWN DASHED TO BE MADE REDUNDANT. ALLOW TO REMOVE ALL REDUNDANT PIPEWORK AND MAKE GOOD.
- 07 EXISTING 100mm DWV DRAINS AND WASTES TO CANTEEN AREA SHOWN DASHED TO BE MADE REDUNDANT. REFER TO NEW WORKS PLAN FOR NEW DRAINS AND WASTES TO NEW CANTEEN AREA.
- 08 EXISTING DRINKING FOUNTAIN TO BE MADE REDUNDANT. ALLOW TO CAP AND SEAL EXISTING 50mm DWV WASTE AND 20mm CWS SUPPLY TO DRINKING FOUNTAIN FOR CONNECTION IN NEW WORKS.

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| NO | REVISION          | DATE     |
|----|-------------------|----------|
| T0 | ISSUED FOR TENDER | 14.11.25 |
| T1 | ISSUED FOR TENDER | 18.12.25 |



Client  
EMMANUEL CATHOLIC COLLEGE  
122 HAMMOND ROAD SUCCESS WA 6164

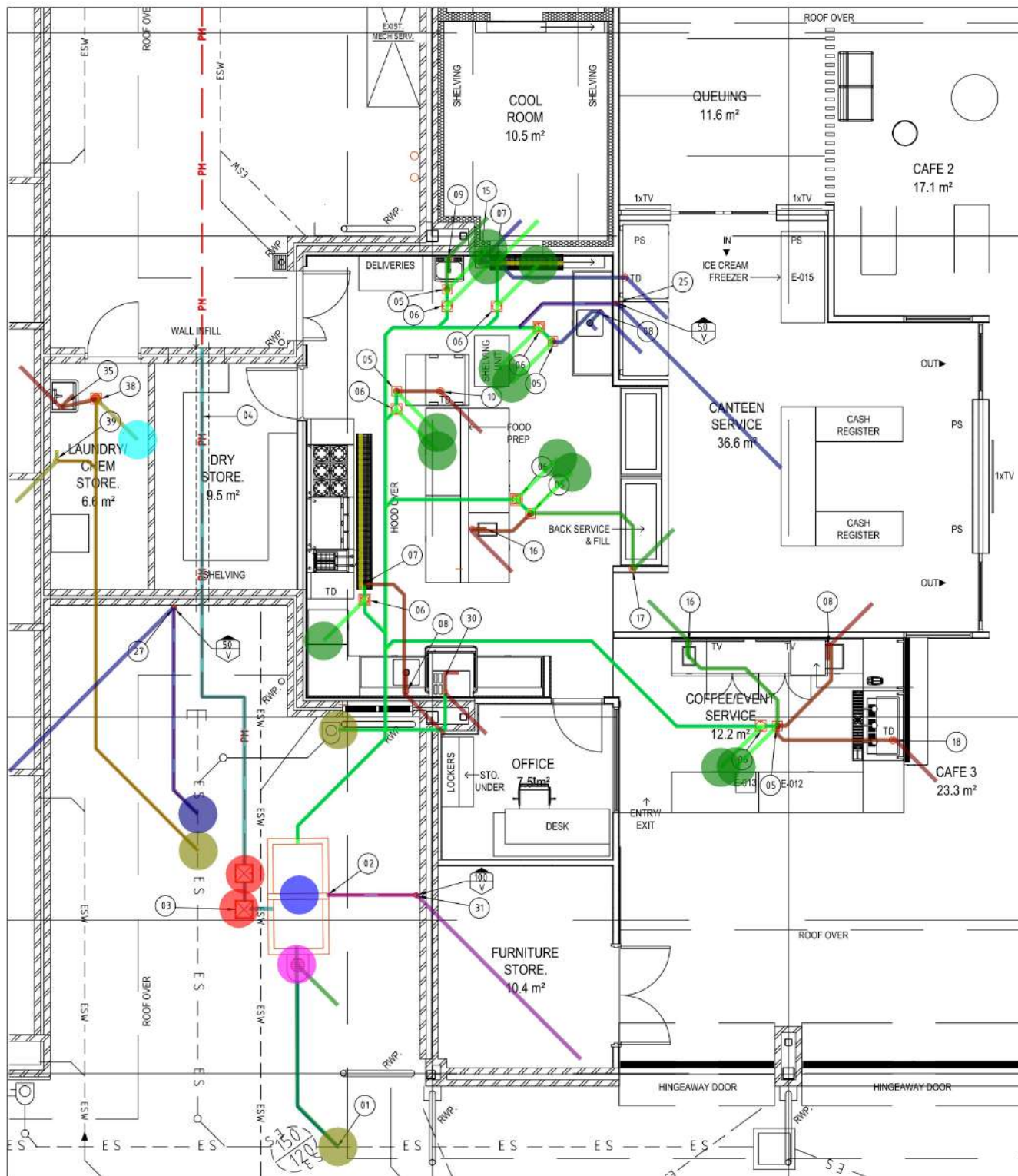
Project  
EMMANUEL CATHOLIC COLLEGE  
CAFETERIA

Drawing Title  
HYDRAULIC SERVICES  
DEMOLITION PLAN

| Drawn          | Checked    | Scale @ A1 |
|----------------|------------|------------|
| DJC            | PJC        | 1:100@A1   |
| Date           | Job Number | Revision   |
| SEP 2025       | 1007-16    |            |
| Drawing Number | Revision   |            |

H1.02

T1

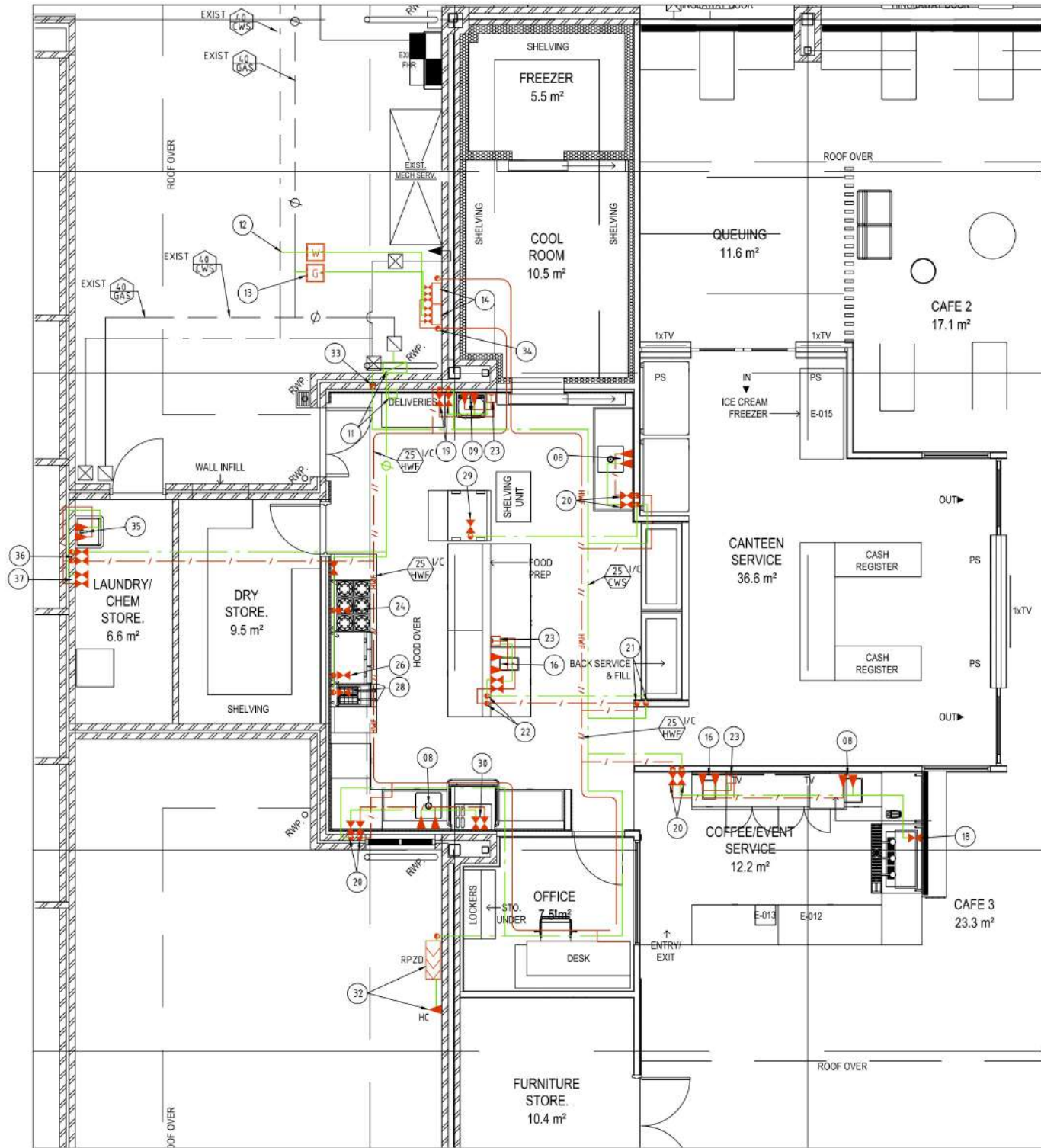


CAFETERIA KITCHEN DRAINS & WASTES SERVICES FLOOR PLAN

SCALE 1:50

PLAN NOTES

- 12 LOCATE CUT & CONNECT TO EXISTING 40mm CWS MAIN TO PROVIDE NEW SERVICE AS SHOWN
- 13 LOCATE CUT & CONNECT TO EXISTING 40mm GAS MAIN TO PROVIDE NEW SERVICE AS SHOWN
- 14 PROVIDE RHEEM MANIFOLDED HIGH FLOW GAS HOT WATER UNITS SECURED TO EXTERNAL WALL AND COMPLETE WITH REDISSET HOT WATER CIRCULATION PUMPS.
- 15 PROVIDE 100mm x 50mm HALF ROUND CHROME PLATED TUNISH AT LOW LEVEL FOR COOL ROOM CONDENSATE DRAIN BY MECHANICAL SERVICES CONTRACTOR TO DISCHARGE OVER.
- 16 PROVIDE 15mm HWS AND CWS ISOLATION VALVES AND CONNECTIONS TO SPECIFIED STAINLESS STEEL HAND WASH BASIN. PROVIDE 40mm CHROME COPPER TRAP AND WASTE TO HWB. 40mm DWV WASTE IN GROUND TO DISCHARGE INTO IWT AS SHOWN.
- 17 PROVIDE 40mm DWV CONDENSATE DRAIN TO RISE IN FRAMED WALL TO SERVICE A/C UNIT BY MECHANICAL SERVICES CONTRACTOR. PROVIDE 50mm x 40mm DWV TUNISH AT HIGH LEVEL. ALLOW TO COORDINATE LOCATION OF TUNISH WITH MECHANICAL SERVICES CONTRACTOR ON SITE.
- 18 PROVIDE 50 x 40mm CHROME COPPER TUNISH IN CUPB FOR COFFEE MACHINE. WASTE TO DISCHARGE OVER. PROVIDE 15mm SS ISOLATION BALL VALVE WITH DUAL CHECK, AQUAPURE FILTER AND CONNECTION TO COFFEE MACHINE.
- 19 PROVIDE 15mm HWS AND CWS BRANCHES TO OFFSET AT HIGH LEVEL IN CEILING SPACE AND DROP IN FRAMED WALL TO 15mm HWS AND CWS STAINLESS STEEL ISOLATION VALVES TO ISOLATE SUPPLY TO FIXTURES AS SHOWN. ISOLATION VALVES TO BE INSTALLED UNDER BENCH IN CUPBOARD.
- 20 PROVIDE 20mm HWS AND CWS BRANCHES TO OFFSET AT HIGH LEVEL IN CEILING SPACE AND DROP IN FRAMED WALL TO 20mm HWS AND CWS STAINLESS STEEL ISOLATION VALVES TO ISOLATE SUPPLY TO FIXTURES AS SHOWN. ISOLATION VALVES TO BE INSTALLED UNDER BENCH IN CUPBOARD.
- 21 PROVIDE 20mm HWS AND CWS BRANCHES TO OFFSET AT HIGH LEVEL IN CEILING SPACE AND DROP IN FRAMED WALL TO OFFSET UNDER FLOOR SLAB TO SERVICE FIXTURES LOCATED IN ISLAND BENCH. ALLOW TO CHANGE FROM COPPER TO PE AND INSTALL IN 65mm DWV SLEEVES UNDER FLOOR SLAB.
- 22 PROVIDE 20mm HWS AND CWS BRANCHES TO OFFSET IN GROUND AND RISE IN FRAMED WALL TO 20mm HWS AND CWS STAINLESS STEEL ISOLATION VALVES TO ISOLATE SUPPLY TO FIXTURES AS SHOWN. ISOLATION VALVES TO BE INSTALLED UNDER BENCH.
- 23 PROVIDE 15mm HWS AND CWS ISOLATION VALVES AND CONNECTIONS TO CALEFFI THERMOSTATIC MIXING VALVE MODEL 252212TMX INSTALLED IN STAINLESS STEEL IN WALL VALVE BOX TO SUPPLY HAND WASH BASINS AS SHOWN.
- 24 PROVIDE 20mm GAS AGA APPROVED ISOLATION BALL VALVE WITH 20mm COPPER GAS SUPPLY BRANCH FROM 40mm COPPER GAS PIPE CLIPPED IN SERVICES WALL AND CONNECTION VIA AGA APPROVED PLUMBIZY PLASTIC COATED STAINLESS STEEL BRAIDED FLEXIBLE HOSE TO SPECIFIED COMMERCIAL GAS COOKER/OVEN - GAS DEMAND - 150 MJ/HR. PROVIDE SECURING CHAIN TO APPLIANCE. REFER TO CATERLINK AND ARCHITECTURAL DRAWINGS FOR APPLIANCE TYPE AND SETOUT REQUIREMENTS.
- 25 PROVIDE 50mm DWV VENT TO RISE IN FRAMED WALL AND TERMINATE ABOVE ROOF LEVEL. PROVIDE DEXTITE FLASHING TO ROOF PENETRATION.
- 26 PROVIDE 20mm GAS AGA APPROVED ISOLATION BALL VALVE WITH 20mm COPPER GAS SUPPLY BRANCH FROM 40mm COPPER GAS PIPE CLIPPED IN SERVICES WALL AND CONNECTION VIA AGA APPROVED PLUMBIZY PLASTIC COATED STAINLESS STEEL BRAIDED FLEXIBLE HOSE TO SPECIFIED COMMERCIAL GAS GRIDDLE - GAS DEMAND - 60 MJ/HR. PROVIDE SECURING CHAIN TO APPLIANCE. REFER TO CATERLINK AND ARCHITECTURAL DRAWINGS FOR APPLIANCE TYPE AND SETOUT REQUIREMENTS.
- 27 PROVIDE 50mm DWV VENT EXTERNAL WALL AND TERMINATE ABOVE ROOF LEVEL. PROVIDE DEXTITE FLASHING TO ROOF PENETRATION.
- 28 PROVIDE 20mm GAS AGA APPROVED ISOLATION BALL VALVE WITH 20mm COPPER GAS SUPPLY BRANCH FROM 40mm COPPER GAS PIPE CLIPPED IN SERVICES WALL AND CONNECTION VIA AGA APPROVED PLUMBIZY PLASTIC COATED STAINLESS STEEL BRAIDED FLEXIBLE HOSE TO SPECIFIED COMMERCIAL GAS FRYER - GAS DEMAND - 150 MJ/HR. PROVIDE SECURING CHAIN TO APPLIANCE. REFER TO CATERLINK AND ARCHITECTURAL DRAWINGS FOR APPLIANCE TYPE AND SETOUT REQUIREMENTS.
- 29 PROVIDE 20mm R/O STAINLESS STEEL ISOLATION BALL VALVE WITH 20mm COPPER GAS SUPPLY BRANCH FROM 40mm COPPER GAS PIPE CLIPPED IN SERVICES WALL AND CONNECTION VIA AGA APPROVED PLUMBIZY PLASTIC COATED STAINLESS STEEL BRAIDED FLEXIBLE HOSE TO SPECIFIED COMMERCIAL GAS GRIDDLE - GAS DEMAND - 60 MJ/HR. PROVIDE SECURING CHAIN TO APPLIANCE. REFER TO CATERLINK AND ARCHITECTURAL DRAWINGS FOR APPLIANCE TYPE AND SETOUT REQUIREMENTS.



- (50mm Ø) Waste Pipe
- (40mm Ø) Waste Pipe
- (100mm Ø) Waste Pipe
- (65mm Ø) Waste Pipe
- (50mm Ø) Vent Pipe
- (100mm Ø) Vent Pipe
- (63mm Ø) Pumpout Pressure Main Line (PE100 PN16)
- External Inspection Point In Cast Iron Box
- (110mm Ø) HDPE Drain Line
- SPS 200mm Stainless Steel Channel Drain Fitted With Stainless Steel Non ...
- proposed Grease Trap In paved Courtyard Area
- Over Relief Gully
- 100mm Stainless Steel Grate Over Existing Floor Waste Gully
- 100mm SPS Stainless Steel Non Slip Cleanout Point
- Locate And Connect proposed Waste Pipe Into Existing Pipe
- Locate And Connect proposed Vent Pipe Into Existing Pipe

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ISSUED FOR TENDER  
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NO REVISION DATE  
TO ISSUED FOR TENDER 14.11.25  
T1 ISSUED FOR TENDER 18.12.25

PLAN NOTES

- 01 LOCATED CUT & CONNECT TO EXISTING 150mm PROPERTY SEWER TO PROVIDE 100mm BRANCH DRAIN TO NEW GREASE ARRESTOR
- 02 PROPOSED GREASE ARRESTOR IN PAVED COURTYARD AREA
- 03 PROPOSED GREASE ARRESTOR PUMPOUT POINT WITH ISOLATION VALVE IN CASTIRON VALVE BOXES
- 04 PROPOSED GREASE ARRESTOR PUMPOUT PRESSURE MAIN 63mm PE100 PN16 TO BE INSTALLED IN EXISTING 100mm REDUNDANT DRAIN UNDER BUILDING SHOWN DASHED.
- 05 PROVIDE 110mm HDPE INDUSTRIAL WASTE TRAP WITH STAINLESS STEEL VINYL CLAMP GRATE AND INSERT BASKET SPS MODEL LG100SSA-BT. GRATE TO FINISH FLUSH WITH FINISHED FLOOR COVERING. TRAPS WITHOUT WASTE CONNECTIONS ARE TO BE FITTED WITH CHARGE PIPE FROM SOLENOID.
- 06 PROVIDE 110mm HDPE DRAIN CONNECTION TO 100mm SPS STAINLESS STEEL NON SLIP CLEAN OUT POINT MODEL LG100SSA/NS AS SHOWN. COVER PLATE TO FINISH FLUSH WITH FINISHED FLOOR LEVEL.
- 06 PROVIDE 110mm HDPE DRAIN CONNECTION TO 100mm SPS STAINLESS STEEL NON SLIP CLEAN OUT POINT MODEL LG100SSA/NS AS SHOWN. COVER PLATE TO FINISH FLUSH WITH FINISHED FLOOR LEVEL.
- 07 PROVIDE SPS 200mm STAINLESS STEEL CHANNEL DRAIN FITTED WITH STAINLESS STEEL NON SLIP R12 GRATE SITE MEASURE TO SUIT INSTALLATION. CHANNEL TO BE 50mm DEEP WITH 110mm HDPE TRAP AND SS INSERT BASKET. CHANNEL DRAIN WASTE TO CONNECT TO 110mm HDPE GREASE DRAIN AS SHOWN.
- 08 PROVIDE 50mm TRAP AND WASTE TO STAINLESS STEEL SINK. PROVIDE 15mm HWS AND CWS CONNECTIONS TO SPECIFIED SINK MIXER.
- 09 PROVIDE 15mm HWS AND CWS ISOLATION VALVES AND CONNECTIONS TO SPECIFIED STAINLESS STEEL KNEE OPERATED WALL HUNG HAND WASH BASIN. PROVIDE 40mm CHROME COPPER TRAP AND WASTE TO HWB. 40mm DWV WASTE IN GROUND TO DISCHARGE INTO IWT AS SHOWN.
- 10 PROVIDE 50mm HDPE TRAP AND WASTE TO COMBI OVENS
- 11 PROVIDE ALL CONTROLS KEY OPERATED SAFETY CHECK SYSTEM COMPLETE WITH SOLENOID VALVE, REGULATOR, ISOLATION BALL VALVES 40mm ON INLET AND OUTLET CONNECTIONS IN LOCKABLE CABINET AND REMOTE KEY OPERATED SAFETY SHUT OFF CONTROLLER LOCATED ON WALL IN KITCHEN. TOTAL 300 MJ/HR DEMAND. PROVIDE IDENTIFICATION PLATE TO SOLENOID VALVE INSTALLED IN CABINET. BUILDER TO PROVIDE 240 V SINGLE PHASE POWER SUPPLY TO SOLENOID, ALLOW FOR WIRING TO CONTROLLER. PROVIDE SOLENOID VALVE BY-PASS WITH LOCKABLE GAS BALL VALVES TO ALLOW FOR MAINTENANCE. CONFIRM TOTAL MJ/HR DEMAND PRIOR TO ORDERING VALVE.



Client  
EMMANUEL CATHOLIC COLLEGE  
122 HAMMOND ROAD SUCCESS WA 6164

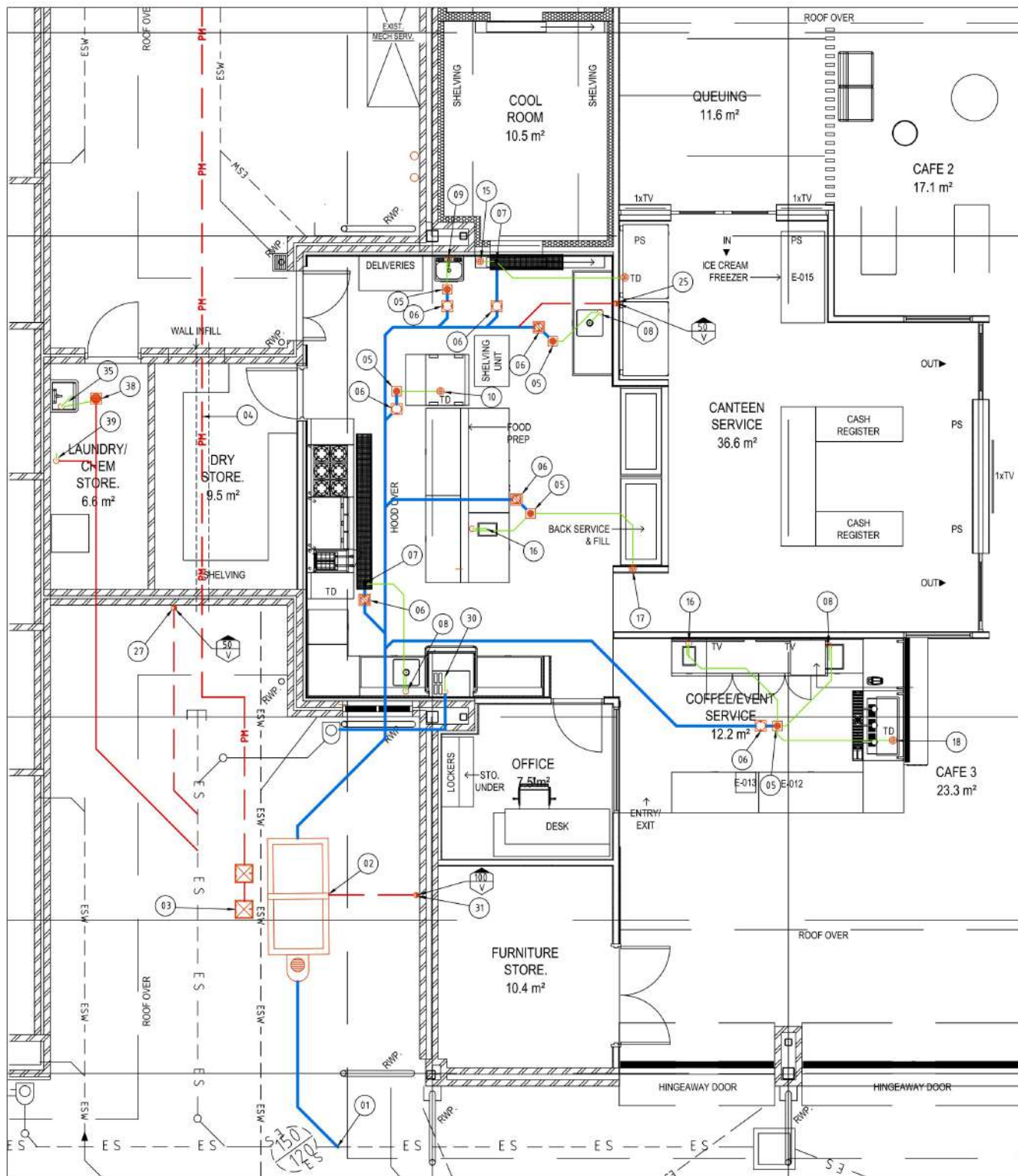
Project  
EMMANUEL CATHOLIC COLLEGE  
CAFETERIA

Drawing Title  
HYDRAULIC SERVICES  
FLOOR PLAN

Drawn  
DJC  
Checked  
PJC  
Scale @ A1  
1:100 @ A1  
Date  
SEP 2025  
Job Number  
1007-16  
Revision

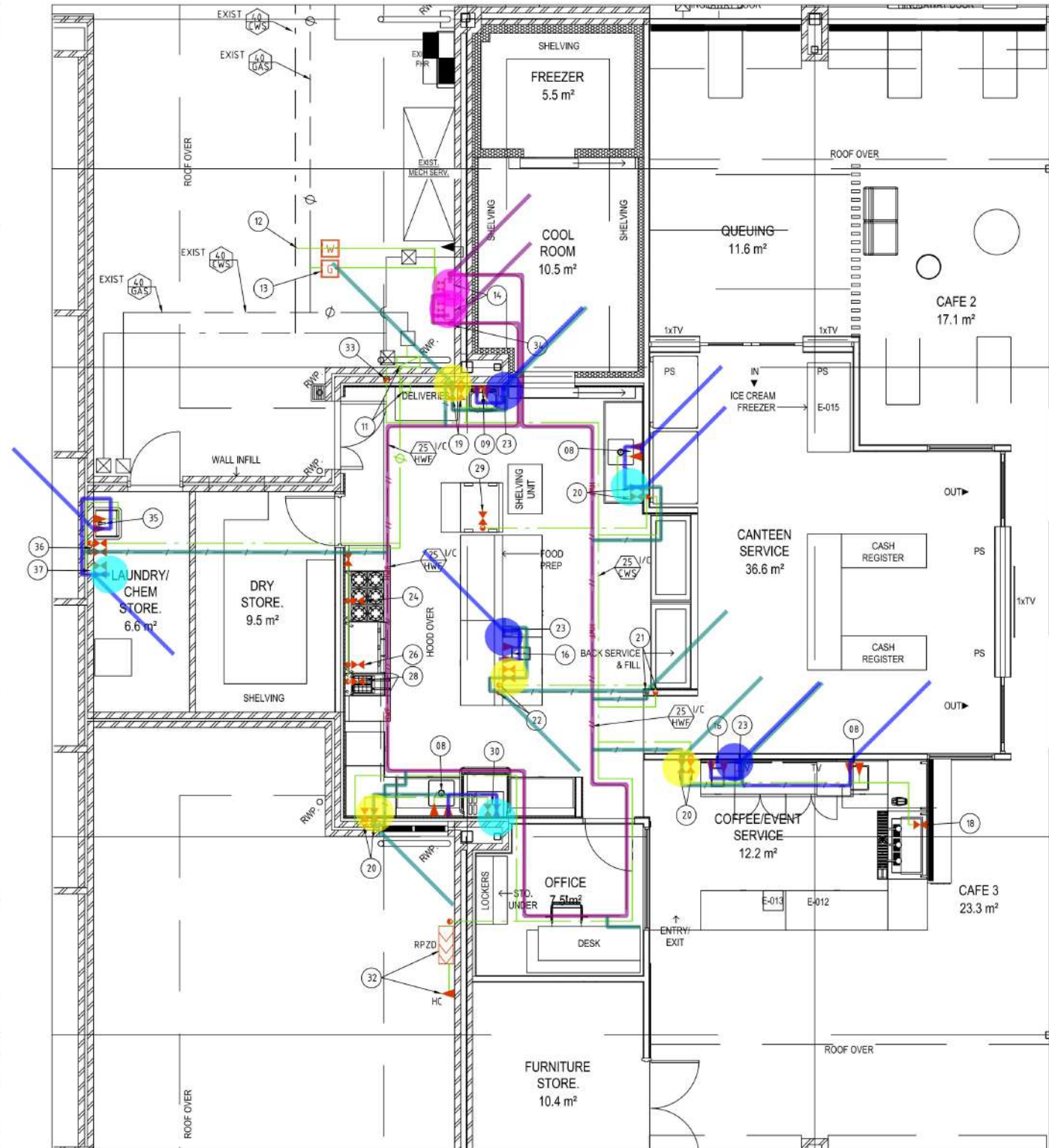
H2.01 T1

T1



CAFETERIA KITCHEN DRAINS & WASTES SERVICES FLOOR PLAN

SCALE 1:50



CAFETERIA KITCHEN WATER & GAS SERVICES FLOOR PLAN

SCALE 1:50

## PLAN NOTES

- 12 LOCATE CUT & CONNECT TO EXISTING 40mm CWS MAIN TO PROVIDE NEW SERVICE AS SHOWN
- 13 LOCATE CUT & CONNECT TO EXISTING 40mm GAS MAIN TO PROVIDE NEW SERVICE AS SHOWN
- 14 PROVIDE RHEEM MANIFOLDED HIGH FLOW GAS HOT WATER UNITS SECURED TO EXTERNAL WALL AND COMPLETE WITH REDISSET HOT

- 17 PROVIDE 40mm DWV CONDENSATE DRAIN TO RISE IN FRAMED WALL TO SERVICE A/C UNIT BY MECHANICAL SERVICES CONTRACTOR. PROVIDE 50mm x 40mm DWV TUNISH AT HIGH LEVEL. ALLOW TO COORDINATE LOCATION OF TUNISH WITH MECHANICAL SERVICES CONTRACTOR ON SITE.
- 18 PROVIDE 50 x 40mm CHROME COPPER TUNISH IN CUPB FOR COFFEE MACHINE WASTE TO DISCHARGE OVER. PROVIDE 15mm

- 21 PROVIDE 20mm HWS AND CWS BRANCHES TO OFFSET AT HIGH LEVEL IN CEILING SPACE AND DROP IN FRAMED WALL TO OFFSET UNDER FLOOR SLAB TO SERVICE FIXTURES LOCATED IN ISLAND BENCH. ALLOW TO CHANGE FROM COPPER TO PE AND INSTALL IN 65mm DWV SLEEVES UNDER FLOOR SLAB.
- 22 PROVIDE 20mm HWS AND CWS BRANCHES TO OFFSET IN GROUND AND RISE IN FRAMED WALL TO 20mm HWS AND CWS STAINLESS STEEL ISOLATION VALVES TO ISOLATE SUPPLY TO FIXTURES AS SHOWN AND ABOVE ROOF LEVEL. PROVIDE DEKITE FLASHING TO ROOF PENETRATION.

- 24 PROVIDE 20mm GAS AGA APPROVED ISOLATION BALL VALVE WITH 20mm COPPER GAS SUPPLY BRANCH FROM 40mm COPPER GAS PIPE CLIPPED IN SERVICES WALL AND CONNECTION VIA AGA APPROVED PLUMBIZY PLASTIC COATED STAINLESS STEEL BRAIDED FLEXIBLE HOSE TO SPECIFIED COMMERCIAL GAS COOKER/OVEN - GAS DEMAND - 150 MJ/HR. PROVIDE SECURING CHAIN TO APPLIANCE. REFER TO CATERLINK AND ARCHITECTURAL DRAWINGS FOR APPLIANCE TYPE AND SET POINT REQUIREMENTS.
- 25 PROVIDE 20mm DWV VENT TO RISE IN FRAMED WALL AND TERMINATE ABOVE ROOF LEVEL. PROVIDE DEKITE FLASHING TO ROOF PENETRATION.

- 27 PROVIDE 50mm DWV VENT TO RISE ON EXTERNAL WALL AND TERMINATE ABOVE ROOF LEVEL. PROVIDE DEKITE FLASHING TO ROOF PENETRATION.
- 28 PROVIDE 20mm GAS AGA APPROVED ISOLATION BALL VALVE WITH 20mm COPPER GAS SUPPLY BRANCH FROM 40mm COPPER GAS PIPE CLIPPED IN SERVICES WALL AND CONNECTION VIA AGA APPROVED PLUMBIZY PLASTIC COATED STAINLESS STEEL BRAIDED FLEXIBLE HOSE TO SPECIFIED COMMERCIAL GAS COOKER/OVEN - GAS DEMAND - 150 MJ/HR. PROVIDE SECURING CHAIN TO APPLIANCE. REFER TO CATERLINK AND ARCHITECTURAL DRAWINGS FOR APPLIANCE TYPE AND SET POINT REQUIREMENTS.
- 29 PROVIDE 20mm DWV VENT TO RISE IN FRAMED WALL AND TERMINATE ABOVE ROOF LEVEL. PROVIDE DEKITE FLASHING TO ROOF PENETRATION.

- 30 PROVIDE 50mm CHROME COPPER TRAP AND WASTE TO DISHWASHER/GLASSWASHER SUPPLIED BY KITCHEN CONTRACTOR WITH COPPER WASTE TO OFFSET UNDER SLAB AS SHOWN. PROVIDE 20mm HWS & CWS STAINLESS STEEL ISOLATION VALVES WITH PLUMBIZY PLASTIC COATED SS BRAIDED FLEXIBLE HOSES TO DISH/GLASSWASHER
- 31 PROVIDE 100mm DWV VENT FROM GREASE ARRESTOR TO RISE ON EXTERNAL WALL AND TERMINATE ABOVE ROOF LEVEL. PROVIDE DEKITE FLASHING TO ROOF PENETRATION.
- 32 PROVIDE 20mm COPPER CWS SUPPLY TO OFFSET AT HIGH LEVEL IN STORE. DROP IN WALL TO SUPPLY 20mm RPZD INSTALLED IN EXTERNAL WALL AND KEY OPERATED POLISHED BRASS HOSECOCK WITH BRASS BIB EXTENSION AS SHOWN.
- 33 PROVIDE 25mm COPPER CWS SUPPLY TO RISE ON WALL AND OFFSET IN CEILING SPACE TO SERVICE CANTEN AS SHOWN.
- 34 PROVIDE 25mm COPPER HWF SUPPLY TO RISE ON WALL AND OFFSET IN CEILING SPACE TO SERVICE CANTEN AS SHOWN.

- 35 PROVIDE 50mm CHROME COPPER TRAP AND WASTE TO REINSTATED CLEANERS SINK. PROVIDE 15mm HWS AND CWS ISOLATION VALVES AND CONNECTIONS TO SPECIFIED CLEANERS SINK SET.
- 36 PROVIDE 20mm HWS AND CWS ISOLATION VALVES INSTALLED IN IN-WALL STAINLESS STEEL ISOLATION VALVE BOX TO ISOLATE SUPPLY TO LAUNDRY AREA AS SHOWN.
- 37 PROVIDE 15mm HWS AND CWS CONNECTIONS TO WASHING MACHINE STOPS AS SHOWN. WASTE FROM WASHING MACHINE TO DISCHARGE INTO TRAPPED STANDING WASTE.
- 38 PROVIDE 100mm STAINLESS STEEL GRATE TO EXISTING FLOOR WASTE GULLY. GRATE TYPE TO SUIT FLOOR COVERING. GRATE TO FINISH FLUSH WITH FINISHED FLOOR LEVEL.
- 39 PROVIDE 65mm DWV TRAPPED STANDING WASTE FOR WASHING MACHINE TO DISCHARGE INTO. 65mm DWV DRAIN IN GROUND AS SHOWN.

- (25mm Ø) Hot Water Flow Pipe
- (20mm Ø) Hot & Warm Water Pipe
- (15mm Ø) Hot & Warm Water Pipe
- (15mm Ø) Isolation Valve
- (20mm Ø) Isolation Valve
- Thermostatic Mixing Valve
- Provide Rheem Manifolded High Flow gas hot Water Unit Secured To

- 38.1 M
- 39.9 M
- 28.5 M
- 3.0 EA
- 4.0 EA
- 3.0 EA
- E2.0 EA

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- 04 PROPOSED GREASE ARRESTOR PUMP-OUT PRESSURE MAIN 63mm PE100 PN16 TO BE INSTALLED IN EXISTING 100mm REDUNDANT DRAIN UNDER BUILDING SHOWN DASHED.
- 05 PROVIDE 110mm HDPE INDUSTRIAL WASTE TRAP WITH STAINLESS STEEL VINYL CLAMP GRATE AND INSERT BASKET SPS MODEL LG100SSA-BT. GRATE TO FINISH FLUSH WITH FINISHED FLOOR COVERING. TRAPS WITHOUT WASTE CONNECTIONS ARE TO BE FITTED WITH CHARGE PIPE FROM SOLENOID.
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- 07 PROVIDE SPS 200mm STAINLESS STEEL CHANNEL DRAIN FITTED WITH STAINLESS STEEL NON SLIP R12 GRATE SITE MEASURE TO SUIT INSTALLATION. CHANNEL TO BE 50mm DEEP WITH 110mm HDPE TRAP AND SS INSERT BASKET CHANNEL DRAIN WASTE TO CONNECT TO 110mm HDPE GREASE DRAIN AS SHOWN.
- 08 PROVIDE 50mm TRAP AND WASTE TO STAINLESS STEEL SINK. PROVIDE 15mm HWS AND CWS CONNECTIONS TO SPECIFIED SINK MIXER.
- 09 PROVIDE 15mm HWS AND CWS ISOLATION VALVES AND CONNECTIONS TO SPECIFIED STAINLESS STEEL KNEE OPERATED WALL HUNG HAND WASH BASIN. PROVIDE 40mm CHROME COPPER TRAP AND WASTE TO HWB. 40mm DWV WASTE IN GROUND TO DISCHARGE INTO IWT AS SHOWN.
- 10 PROVIDE 50mm HDPE TRAP AND WASTE TO COMBI OVENS
- 11 PROVIDE ALL CONTROLS KEY OPERATED SAFETY CHECK SYSTEM COMPLETE WITH SOLENOID VALVE, REGULATOR, ISOLATION BALL VALVES 40mm ON INLET AND OUTLET CONNECTIONS IN LOCKABLE CABINET AND REMOTE KEY OPERATED SAFETY SHUT OFF CONTROLLER LOCATED ON WALL IN KITCHEN. TOTAL 300 MJ/HR DEMAND. PROVIDE IDENTIFICATION PLATE TO SOLENOID VALVE INSTALLED IN CABINET. BUILDER TO PROVIDE 240 V SINGLE PHASE POWER SUPPLY TO SOLENOID. ALLOW FOR WIRING TO CONTROLLER. PROVIDE SOLENOID VALVE BY-PASS WITH LOCKABLE GAS BALL VALVES TO ALLOW FOR MAINTENANCE. CONFIRM TOTAL MJ/HR DEMAND PRIOR TO ORDERING VALVE.



Client  
EMMANUEL CATHOLIC COLLEGE  
122 HAMMOND ROAD SUCCESS WA 6164

Project  
EMMANUEL CATHOLIC COLLEGE  
CAFETERIA

Drawing Title  
HYDRAULIC SERVICES  
FLOOR PLAN

Drawn DJC Checked PJC Scale @ A1  
Date SEP 2025 Job Number 1007-16  
Drawing Number Revision

H2.01 T1



## LIGHTING LEGEND

UNLESS OTHERWISE DETAILED ALL LAMPS WITHIN COMMON AREAS SHALL BE "COOL WHITE" WITH A 4000K COLOUR TEMPERATURE.

| TYPE      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LAMP    |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| A1        | UP/DOWN INTERNAL WALL LIGHT - LEDS C4 "AFFRODITA" CAT N° 808-FLOOD DOUBLE EMISSION WITH WIDE BEAM SPREAD, 220 x 90mm IN DIMENSIONS. COLOUR TO BE NOMINATED BY ARCHITECT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12W LED |
| A2        | EXTERNAL WALL OR CEILING MOUNTED LUMINAIRE IP65 RATED WITH DIE-CAST ALUMINIUM BASE AND UV STABILISED POLYCARBONATE VANDAL RESISTANT DIFFUSER - LEDS C4 CAT N° 15-9835-SERIES 260mm NOM IN DIAMETER. COLOUR TO BE NOMINATED BY ARCHITECT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 15W LED |
| B1        | RECESSED DOWNLIGHT WITH DRIVER - LED C4 "NIT" SERIES CAT N° BH11-11X9-F2 WIDE BEAM. COLOUR TO BE NOMINATED BY ARCHITECT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12W LED |
| B2        | RECESSED DOWNLIGHT WITH DRIVER - LED C4 "PLAY" SERIES CAT N° AG13-13X9-F1 WIDE BEAM. COLOUR TO BE NOMINATED BY ARCHITECT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12W LED |
| B3        | AS FOR TYPE "B2" BUT CAT N° AG13-7X9-F1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 9W LED  |
| C1        | 1200mm x 300mm RECESSED FLAT LED PANEL - LEDS C4 ECOFIT CAT N° AP13-35X9MPB814. COMPLETE WITH A ONE PIECE PLASTER RECESS TRIM.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 32W LED |
| C2        | AS FOR TYPE "C1" BUT WITH 24 WATT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 24W LED |
| D1        | 1200mm (NOM) LED BATTEN - LIMELITE CAT N° BL-SM-1200-23W-4K.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 23W LED |
| E1        | RECESSED SINGLE POINT EMERGENCY LUMINAIRE. CLEVERTRONICS CAT N° LUFE-PRO OR SIMILAR PRODUCT EQUIVALENT IN FUNCTION, QUALITY AND THE LIKE APPROVED BY THE SUPERINTENDENT'S REPRESENTATIVE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LED     |
| EX        | SUSTAINED EXIT SIGN WITH "RUNNING MAN" DIFFUSER.<br><br>TYPE 1 - SINGLE-SIDED SURFACE MOUNTED - CLEVERTRONICS CAT N° LCFLD OR SIMILAR PRODUCT EQUIVALENT IN FUNCTION, QUALITY AND THE LIKE APPROVED BY THE SUPERINTENDENT'S REPRESENTATIVE.<br><br>TYPE 2 - CLEVERTRONICS CAT N° LWLED WEATHERPROOF AND IMPACT RESISTANT SINGLE SIDED EXIT.<br><br>TYPE 3 - AS FOR TYPE 2 BUT DOUBLE SIDED EXIT.<br><br>NOTE: WHERE ARROWS ARE SHOWN ADJACENT EXIT SYMBOL, FIT MATCHING DIFFUSERS TO SHOW DIRECTION OF EXIT.<br><br>CONTRACTOR IS TO SELECT CORRECT CATALOGUE NUMBER ON ALL EXIT SIGNS TO SUIT TYPE OF DIFFUSER (SINGLE OR DOUBLE) AND DIRECTIONAL ARROW TYPE.                                                                                                                                                                       | LED     |
| F1        | WEATHERPROOF COOLROOM LIGHT - LIMELITE CAT N° STM-SM-600 600mm (NOM) IN LENGTH.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 23W LED |
| F2        | WEATHERPROOF FREEZER LIGHT - CARANDINI PEC GEN 4-N 600mm (NOM) IN LENGTH.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 19W LED |
| LTS       | TRACK LIGHT AND SPOTLIGHT (3-HEAD CONFIGURATION) - LEADS C4 "ATOM TRACK 52" SERIES WITH 3 N° SPOT LIGHTS, EACH WITH A FLOOD 43° BEAM. COLOUR TO BE NOMINATED BY THE ARCHITECT. CONTRACTOR TO SIZE AND ORDER EACH TRACK TO MATCH THE INDICATED LENGTHS SHOWN ON THE DRAWINGS, SUPPLIED WITH ALL END CAPS AND TRACK ADAPTORS TO SUIT THE INSTALLATION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 22W LED |
| SL1       | CONTINUOUS LED EXTRUSION LUMINAIRE, NOMINAL 90mm x 50mm PROFILE, 3600mm (NOM) IN LENGTH. LUMINAIRE SELECTED TO BE - INTRALUX VL9050-22-CLO-SU-3600-940 WITH WIDE BEAM, END-CAPS AND 4000K LED BOARDS DELIVERING 4851 LM PER 1000mm LENGTH (22W/M). LUMINAIRE TO BE SUSPENDED USING STAINLESS STEEL WIRE AND PROPRIETARY FIXINGS AS DETAILED ON THE DRAWINGS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LED     |
| SL2       | AS FOR TYPE SL1 BUT 2400 (NOM) IN LENGTH - INTRALUX VL9050-22-CLO-SU-2400-940.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LED     |
| LED STRIP | PROVIDE LEDS C4 "ASAI 3D" 16mm IP67 LED STRIP, 24V PWM INSTALLED IN CONTINUOUS LENGTHS AS DETAILED ON DRAWING E.06. MOUNT LED STRIP ON TOP OF THE SUSPENDED CEILING SOFFIT USING 45 DEGREE MOUNTING BRACKETS (BY CONTRACTOR) AT REGULAR INTERNALS TO AIM LIGHT UPWARD AND FORWARD. BRACKETS TO ALLOW THE STRIP TO FOLLOW THE CURVED SOFFIT PROFILE AND REMAIN FULLY CONCEALED FROM VIEW. INSTALL THE LED STRIP IN SECTIONS AS REQUIRED TO SUIT CURVATURE, ACCESS, ALL MANUFACTURER RECOMMENDATIONS.                                                                                                                                                                                                                                                                                                                                  | LED     |
| FC        | 1200mm DIAMETER CEILING SWEEP FAN WITH 3 BLADES. FANS SHALL BE VENTAIR "STANZA" CAT N° STA1203 - COLOUR TO BE NOMINATED BY THE ARCHITECT. ALL CEILING SWEEP FANS ARE TO BE SECURELY FIXED TO THE ROOF STRUCTURE WITH ADDITIONAL STRUCTURAL SUPPORT PROVIDED AS REQUIRED. THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL A SUSPENSION ROD SIZED TO SUIT THE REQUIRED FAN MOUNTING HEIGHT, AND SUSPEND THE FAN USING A J-HOOK AS NECESSARY TO ENSURE STABLE INSTALLATION. CONCEAL THE J-HOOK AND ALL FIXINGS WITHIN THE CEILING SPACE. THE SUSPENSION ROD SHALL PASS THROUGH THE CEILING AND BE FITTED WITH A CLIPSAL OR EQUIVALENT UNIVERSAL COVER FLANGE, SECURELY FIXED IN PLACE TO CONCEAL THE CEILING PENETRATION. <b>NOTE:</b> CONFIRM THE SUSPENSION HEIGHT OF THE CEILING SWEEP FANS WITH THE ARCHITECT PRIOR TO ORDERING. |         |
|           | FAN SPEED CONTROLLER FOR THE ABOVE FANS LOCATED AS SHOWN ON THE DRAWINGS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |
|           | PROVIDE HEATSTRIP RADIANT ELECTRIC HEATER. HEATER TO BE SURFACE MOUNTED USING THE MANUFACTURER'S STANDARD MOUNTING BRACKETS, COMPLETE WITH MANUFACTURER'S HARD-WIRED AND REMOTE CONTROLS.<br><br>TYPE A - THH2400A 2400 WATT 1360mm (NOM) IN LENGTH<br>TYPE B - THH1800A 1800 WATT 1100mm (NOM) IN LENGTH<br><br>INSTALL ALL COMPONENTS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS AND ELECTRICAL STANDARDS. ALL HEATERS SHALL BE SECURELY FIXED TO THE ROOF STRUCTURE WITH ADDITIONAL STRUCTURAL SUPPORT PROVIDED AS REQUIRED.                                                                                                                                                                                                                                                                                                    |         |

## POWER AND MISCELLANEOUS LEGEND

OUTLETS SHALL BE INSTALLED AT HEIGHTS NOTED OR SHOWN ADJACENT THE SYMBOL.

WHERE NO HEIGHTS ARE SHOWN ADJACENT SYMBOLS WALL MOUNT AT 450 AFL.

HEIGHTS ARE TO THE CENTRES OF ACCESSORIES/FLUSH PLATES.

REFER GENERAL NOTES FOR OUTLETS ON FIRE RATED AND ACOUSTIC RATED WALLS.

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10A SINGLE GPO              | SGPO SYMBOL INDICATES THE OUTLET IS SURGE PROTECTED.                                                                                                                                                                                                                                                                                                                                                               |
| N                           | N DENOTES GPO PROVIDED WITH NEON INDICATOR                                                                                                                                                                                                                                                                                                                                                                         |
| 10A DOUBLE GPO              | 10A DOUBLE GPO WITH AN ADDITIONAL SWITCH MECHANISM ON THE SAME FLUSH PLATE.                                                                                                                                                                                                                                                                                                                                        |
| N                           | A SOLID DGPO SYMBOL INDICATES THE OUTLET IS SURGE PROTECTED.                                                                                                                                                                                                                                                                                                                                                       |
| N                           | N DENOTES GPO PROVIDED WITH NEON INDICATOR                                                                                                                                                                                                                                                                                                                                                                         |
| 15A                         | 15A SINGLE SOCKET OUTLET                                                                                                                                                                                                                                                                                                                                                                                           |
| N                           | A SOLID 15A SYMBOL INDICATES THE OUTLET IS SURGE PROTECTED                                                                                                                                                                                                                                                                                                                                                         |
| N                           | N DENOTES GPO PROVIDED WITH NEON INDICATOR                                                                                                                                                                                                                                                                                                                                                                         |
| 20A                         | 20 AMP SINGLE PHASE SOCKET OUTLET                                                                                                                                                                                                                                                                                                                                                                                  |
| 4                           | FOUR GANG 10A OUTLET                                                                                                                                                                                                                                                                                                                                                                                               |
| 10AMP PENDANT SOCKET OUTLET | SUSPEND TO 1800 AFL UOS ON THE DRAWING. REFER DETAILS FOR ADDITIONAL INFORMATION                                                                                                                                                                                                                                                                                                                                   |
| 15AMP PENDANT SOCKET OUTLET |                                                                                                                                                                                                                                                                                                                                                                                                                    |
| (20)                        | CLIPSAL 56 SERIES IP66 FIVE PIN THREE PHASE SOCKET OUTLET OR SIMILAR PRODUCT EQUIVALENT IN FUNCTION, QUALITY AND THE LIKE APPROVED BY THE SUPERINTENDENT'S REPRESENTATIVE.                                                                                                                                                                                                                                         |
|                             | CURRENT RATING OF OUTLET                                                                                                                                                                                                                                                                                                                                                                                           |
| RJ45                        | RJ45 SOCKET IN FLUSH PLATE FOR VOICE/DATA WITH CAT 6A UTP CABLE TERMINATED AT BOTH ENDS. UNLESS DETAILED OTHERWISE CONNECT 1 x RJ45 SOCKET AS VOICE                                                                                                                                                                                                                                                                |
| N                           | N DENOTES NUMBER OF OUTLETS ON EACH FLUSH PLATE. MAXIMUM OF 4 OUTLETS                                                                                                                                                                                                                                                                                                                                              |
| WAP                         | CEILING OR WALL MOUNTED 1 x CATEGORY 6A DATA OUTLET FOR WIRELESS ACCESS POINT (WAP). TERMINATE CATEGORY 6A CABLE INTO OUTLET IN FLUSH PLATE FIXED TO THE UNDERSIDE OF THE CEILING. PROPRIETOR TO SUPPLY AND INSTALL WAP.                                                                                                                                                                                           |
| HWU                         | 3 PHASE INSTANTANEOUS HWU. CONNECT VIA AN ISOLATOR INSTALLED ADJACENT.                                                                                                                                                                                                                                                                                                                                             |
| H                           | SINGLE OR THREE PHASE STORAGE TYPE HWU. CONNECT VIA AN ISOLATOR INSTALLED ADJACENT.                                                                                                                                                                                                                                                                                                                                |
| A/C                         | A/C CONDENSING UNIT BY MECH SERVICES CONTRACTOR. TO EACH A/C CONDENSING UNIT INSTALL CIRCUIT CABLES FROM THE RESPECTIVE SWITCHBOARD AS DETAILED ON THE DRAWING AND TERMINATE AT THE LINE SIDE OF A W/PROOF ISOLATOR (BY ELECT'L CONTR). INSTALLED ADJACENT. LEAVE ALL LOADSIDE CONNECTIONS INCLUDING CONTROLS FOR OTHERS. SELECT ISOLATOR TO SUIT PHASE NO AND CURRENT RATING OF CIRCUIT-REFER LINE DIAGRAM SHEET. |
| FS                          | DENOTES CONNECT VIA FUNCTIONAL SWITCH TO AS/NZS 3000                                                                                                                                                                                                                                                                                                                                                               |
|                             | SINGLE POLE OR TRIPLE POLE WEATHERPROOF ISOLATOR                                                                                                                                                                                                                                                                                                                                                                   |
|                             | WALL BOX AS NOTED ON FLOOR PLAN FOR FUTURE CABLING PROVISIONS. FIT BLANK FLUSH PLATE                                                                                                                                                                                                                                                                                                                               |
|                             | WALL MOUNTED OR IN-LINE DUCT MOUNTED EXHAUST FAN BY MECH SERVICES CONTRACTOR. ELECTRICAL CONTR TO CONNECT.                                                                                                                                                                                                                                                                                                         |
|                             | ROOF OR CEILING MOUNTED EXHAUST FAN BY MECH SERVICES CONTRACTOR. ELECTRICAL CONTR TO CONNECT.                                                                                                                                                                                                                                                                                                                      |
|                             | 150mm HIGH x 50mm DEEP CENTRE MOUNT 2 CHANNEL SKIRTING DUCT. COLOUR TO BE NOMINATED BY ARCHITECT. REFER ARCHITECTURAL DRAWINGS FOR FINAL LOCATION AND MOUNTING HEIGHT                                                                                                                                                                                                                                              |
|                             | ELECTRICAL SWITCHBOARD AS NOTED ON DRAWING                                                                                                                                                                                                                                                                                                                                                                         |

## LIGHTING LEGEND - SWITCHING AND CONTROL

REFER GENERAL NOTES FOR MOUNTING HEIGHTS.

REFER GENERAL NOTES FOR SWITCHES ON FIRE RATED AND ACOUSTIC RATED WALLS.

"V" DENOTES VARIANT AS SCHEDULED

|                                         |                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SWITCH AND SWITCHGROUP                  | WHERE SHOWN DENOTES DIMMER FITTED TO SWITCHGROUP - CONTRACTOR TO SELECT DIMMER TO SUIT LUMINAIRE TYPE.                                                                                                                                                                                                                                                  |
| XXXX                                    | DENOTES MULTIGANG SWITCHPLATE                                                                                                                                                                                                                                                                                                                           |
| CLIPSAL CAT N° 750                      | CLIPSAL CAT N° 750 WPR SURFACE MOUNTED MOTION SENSOR OR SIMILAR PRODUCT EQUIVALENT IN FUNCTION, QUALITY AND THE LIKE APPROVED BY THE SUPERINTENDENT'S REPRESENTATIVE.                                                                                                                                                                                   |
| CLIPSAL CAT N° 751R                     | CLIPSAL CAT N° 751R SURFACE MOUNTED MOTION SENSOR OR SIMILAR PRODUCT EQUIVALENT IN FUNCTION, QUALITY AND THE LIKE APPROVED BY THE SUPERINTENDENT'S REPRESENTATIVE.                                                                                                                                                                                      |
| REVOLUTION BUILDING CONTROLS RBC SERIES | REVOLUTION BUILDING CONTROLS RBC SERIES RECESSED 360° MOTION SENSOR OR SIMILAR PRODUCT EQUIVALENT IN FUNCTION, QUALITY AND THE LIKE APPROVED BY THE SUPERINTENDENT'S REPRESENTATIVE                                                                                                                                                                     |
|                                         | DENOTES VARIANT AS NOTED:<br>"A" = RBC521 SINGLE CHANNEL MOTION SENSOR - SET FOR 5 MINUTES.<br>"B" = RBC521 SINGLE CHANNEL MOTION SENSOR - SET FOR 30 MINUTES.<br>"C" = RBC532 DUAL CHANNEL MOTION SENSOR FOR LIGHT AND EXHAUST FAN - SET LIGHT FOR 15 MINUTES AND EXHAUST FAN 30 MINUTES<br>"SM" = RBC504 SURFACE MOUNTED SINGLE CHANNEL MOTION SENSOR |

## STANDARD POWER AND MISCELLANEOUS LEGEND VARIANTS

|     |                                                                                                                                                                                                                                                                                                           |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AB  | ABOVE BENCH                                                                                                                                                                                                                                                                                               |
| AD  | FOR AUTOMATIC DOOR, INSTALL SKIRTING TYPE GPO/MOUNTING BLOCK IN TRANSOM OF DOOR WHERE SPACE EXISTS, OTHERWISE MAKE CONNECTION IN ACCORDANCE WITH MANUFACTURERS INSTALLATION DETAILS - IN THE EVENT THAT A GPO EXTERNAL TO THE TRANSOM IS REQUIRED, SAME SHALL BE CONCEALED FROM VIEW AS MUCH AS POSSIBLE. |
| AF  | SOCKET OUTLET FOR AUTO-FLUSH URINAL. DETERMINE EXACT LOCATION OF OUTLET ON SITE WITH HYDRAULICS INSTALLER                                                                                                                                                                                                 |
| AV  | ABOVE VANITY                                                                                                                                                                                                                                                                                              |
| BF  | OUTLET MOUNTED ON BENCH TOP FACIA                                                                                                                                                                                                                                                                         |
| BM  | BENCH MOUNTED                                                                                                                                                                                                                                                                                             |
| BU  | MOUNTED ON BENCH UPSTAND                                                                                                                                                                                                                                                                                  |
| BWU | CONNECTION TO BOILING WATER UNIT                                                                                                                                                                                                                                                                          |
| CL  | FOR CLEANER, ENGRAVE OUTLET "CLEANERS"                                                                                                                                                                                                                                                                    |
| CM  | MOUNT ON UNDERSIDE OF CEILING                                                                                                                                                                                                                                                                             |
| CS  | MOUNTED WITHIN CEILING SPACE                                                                                                                                                                                                                                                                              |
| CWU | SOCKET OUTLET FOR CHILLED WATER DRINKING UNIT                                                                                                                                                                                                                                                             |
| DF  | DRINKING FOUNTAIN                                                                                                                                                                                                                                                                                         |
| DM  | OUTLET MOUNTED ON TWO CHANNEL DUCT AT BENCH TOP LEVEL                                                                                                                                                                                                                                                     |
| DR  | FOR DRYER AT 1600AFL (NOM) UNLESS DETAILED OTHERWISE                                                                                                                                                                                                                                                      |
| DW  | FOR DISHWASHER, OUTSIDE OF RECESS AND CENTRALLY MOUNTED BETWEEN U/SIDE OF BENCHTOP AND MID-SHELF                                                                                                                                                                                                          |
| F   | FOR FRIDGE. ENGRAVE OUTLET "FRIDGE ONLY"                                                                                                                                                                                                                                                                  |
| HT  | WP LOCKABLE SOCKET OUTLET ADJACENT HOSE COCK                                                                                                                                                                                                                                                              |
| MW  | SOCKET OUTLET FOR MICROWAVE OVEN                                                                                                                                                                                                                                                                          |
| RH  | FOR RANGEHOOD, INSTALLED IN BOTTOM CORNER OF OVERHEAD CUPBOARD, ON TERMINAL SIDE OF RANGEHOOD                                                                                                                                                                                                             |
| SK  | OUTLET MOUNTED ON SKIRTING DUCT AT FLOOR LEVEL                                                                                                                                                                                                                                                            |
| SM  | SURFACE MOUNTED                                                                                                                                                                                                                                                                                           |
| UB  | MOUNTED UNDER BENCH                                                                                                                                                                                                                                                                                       |
| UOS | UNLESS OTHERWISE SHOWN                                                                                                                                                                                                                                                                                    |
| WP  | IP56 RATED WEATHERPROOF OUTLET FLUSH MOUNTED UNLESS DETAILED OTHERWISE                                                                                                                                                                                                                                    |
| WS  | IP53 RATED WEATHER PROTECTED OUTLET FLUSH MOUNTED UNLESS DETAILED OTHERWISE                                                                                                                                                                                                                               |

## ACCESS CONTROL AND SECURITY SYSTEM LEGEND

|      |                                                                                                                                                                              |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SEC  | SECURITY SYSTEM MAIN CONTROL PANEL WALL MOUNTED AT 1800 AFL UNLESS DETAILED OTHERWISE.                                                                                       |
| DGP  | SECURITY DATA GATHERING PANEL WALL MOUNTED AT 1800 AFL UNLESS DETAILED OTHERWISE. PROVIDE EXPANSION CARDS SUITABLE FOR ALL ALARM POINTS SHOWN PLUS 20% SPARE.                |
| KP   | SECURITY KEYPAD MOUNTED AT 1200 AFL UNLESS DETAILED OTHERWISE.                                                                                                               |
|      | SECURITY SYSTEM INTERNAL NOISE MAKER CEILING MOUNTED UNLESS DETAILED OTHERWISE.                                                                                              |
| 360° | SECURITY PASSIVE INFRARED MOTION DETECTOR MOUNTED AT 2400 AFL UNLESS DETAILED OTHERWISE.<br>DT - DENOTES DUALTEC DEVICE<br>360° - DENOTES CEILING MOUNTED 360° TYPE DETECTOR |
| HD   | SECURITY DOOR CONTACT<br>HD - DENOTES HEAVY DUTY TO SUIT ROLLER DOOR                                                                                                         |
|      | SECURITY SYSTEM MUTE 3 TELEPHONE SOCKET OUTLET                                                                                                                               |
|      | SMOKE DETECTOR. CONNECT TO 24 HOUR MONITORED ALARM ZONE ON SECURITY SYSTEM.                                                                                                  |
|      | THERMAL DETECTOR. CONNECT TO 24 HOUR MONITORED ALARM ZONE ON SECURITY SYSTEM.                                                                                                |
| CCTV | CCTV SYSTEM EQUIPMENT LOCATION                                                                                                                                               |
| N    | CCTV CAMERA                                                                                                                                                                  |

## LIGHTING LEGEND VARIANTS

|                        |                                                                          |
|------------------------|--------------------------------------------------------------------------|
| SWITCH AND SWITCHGROUP | TWO-WAY                                                                  |
| 2                      | INTERMEDIATE                                                             |
| INT                    | CONTROLS EXHAUST FAN. FIT "FAN" ENGRAVED SWITCH MECHANISM                |
| F                      | NEON INDICATOR FITTED TO SWITCH. WHEN LIGHT IS 'ON' NEON IS TO GLOW      |
| N                      | TIME DELAY SWITCH SET DELAY PERIOD FOR 4 HOURS UNLESS DETAILED OTHERWISE |
| TD                     | TIME DELAY SWITCH OVERRIDE FOR INTERIOR LIGHTING CONTROL                 |
| TD/OR                  | IP56 SERIES RATED FLUSH MOUNTED SWITCH                                   |
| WP                     |                                                                          |

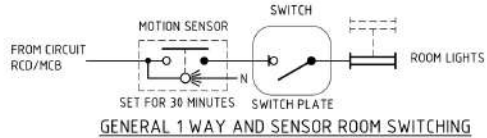
## LIGHTING LEGEND NOTES

- UNLESS OTHERWISE INDICATED ALL COLOURS OF LUMINAIRES MUST BE SELECTED BY THE SUPERINTENDENT'S REPRESENTATIVE PRIOR TO MANUFACTURE.
- ALL EXTERNAL LUMINAIRE EXPOSED FIXINGS SHALL HAVE TAMPERPROOF 316 GRADE STAINLESS STEEL SECURITY SCREWS.
- WHERE SUSPENDED LUMINAIRES HAVE BEEN SPECIFIED ALL SUSPENSION WIRES SHALL BE STAINLESS STEEL UNLESS OTHERWISE INDICATED.
- ALL RECESSED DOWNLIGHTS SHALL BE INSTALLED TO CONFORM WITH CLAUSE 4.5.2 OF AS/NZS 3000.

## SINGLE LINE DIAGRAM LEGEND

|      |                                                                                                                                                                                                                      |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | SINGLE PHASE/POLE                                                                                                                                                                                                    |
|      | THREE PHASE/POLE                                                                                                                                                                                                     |
|      | SWITCH OR ISOLATOR, CURRENT RATING AS SHOWN.                                                                                                                                                                         |
|      | CIRCUIT BREAKER.                                                                                                                                                                                                     |
|      | COMBINED CIRCUIT BREAKER/RCD (30mA), ONE DIN POLE WIDE.                                                                                                                                                              |
| OR   | NORMALLY OPEN CONTACT                                                                                                                                                                                                |
| OR   | NORMALLY CLOSED CONTACT                                                                                                                                                                                              |
|      | NORMALLY OPEN PUSH BUTTON                                                                                                                                                                                            |
|      | NORMALLY CLOSED PUSH BUTTON                                                                                                                                                                                          |
|      | DENOTES REMOTE EQUIPMENT TERMINAL                                                                                                                                                                                    |
| ELTR | EXIT AND EMERGENCY LIGHTING TEST KIT INTEGRAL TO SWITCHBOARD. NUMBER OF CONTACTS AS REQUIRED.                                                                                                                        |
| M    | ELECTRICAL MOTOR. MAKE CONNECTION TO COMPLY WITH CLAUSE 4.13 OF AS/NZS 3000. PROVIDE PROTECTION AGAINST OVERLOAD AND OVER TEMPERATURE WHERE REQUIRED.                                                                |
| kwh  | PULSE OUTPUT kWh METER.                                                                                                                                                                                              |
| PA   | CT OPERATED POWER ANALYSER.                                                                                                                                                                                          |
| SP   | SURGE PROTECTION FILTER                                                                                                                                                                                              |
| C n  | CONTRACTOR COIL<br>n = CONTACTOR NUMBER                                                                                                                                                                              |
| R n  | RELAY COIL<br>n = RELAY NUMBER                                                                                                                                                                                       |
| TD n | TIME DELAY RELAY<br>n = RELAY NUMBER                                                                                                                                                                                 |
| TS n | TIME SWITCH 24 HOUR, 7 DAY COMPLETE WITH BATTERY BACK UP. ALL TIME SWITCHES SHALL BE READILY ADJUSTABLE FROM SUMMER TO WINTER CYCLE BY SCHOOL STAFF (i.e. USE OF ELECTRICIAN NOT REQUIRED)<br>n = TIME SWITCH NUMBER |
| PE   | PHOTO ELECTRIC CELL                                                                                                                                                                                                  |
| PA   | WALL MOUNTED PUBLIC ADDRESS SPEAKER CONNECTED TO SCHOOL PA SYSTEM.                                                                                                                                                   |
|      | FLUSH CEILING MOUNTED PA SPEAKER CONNECTED TO SCHOOL PA SYSTEM.<br>SM = SURFACE MOUNTED TYPE                                                                                                                         |
| VC   | PA SYSTEM VOLUME CONTROLLER TO PROVIDE CONTROL OF LOCAL SPEAKERS SHOWN (WITH ALL CALL OVERRIDE).                                                                                                                     |
| RCM  | PUBLIC ADDRESS CONTROL DEVICE                                                                                                                                                                                        |
| PAT  | PUBLIC ADDRESS TERMINAL BOX                                                                                                                                                                                          |
| PA   | PUBLIC ADDRESS SPEAKER SOCKET OUTLET.                                                                                                                                                                                |
| HPA  | PUBLIC ADDRESS SYSTEM HEAD END EQUIPMENT. INCLUDING AUDIO/MUSIC SYSTEM FOR ENTERTAINMENT AS NOMINATED ON DRAWINGS                                                                                                    |
|      | WALL MOUNTED PA WEATHERPROOF HORN SPEAKER CONNECTED TO SCHOOL PA SYSTEM.                                                                                                                                             |
| R    | RADIO AERIAL                                                                                                                                                                                                         |
|      | REMOTE MICROPHONE INLET SOCKET (1200)                                                                                                                                                                                |

## PUBLIC ADDRESS SYSTEM



## GENERAL INSTALLATION NOTES

- ALL ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ELECTRICAL SPECIFICATION, ALL ARCHITECTURAL DRAWINGS AND ALL OTHER SERVICES DRAWINGS.
- OUTLET AND LIGHT FITTING LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY. CONFIRM ALL LOCATIONS OFF ARCHITECTURAL CEILING PLANS, FLOOR PLANS AND ELEVATION DRAWINGS SHOWING CABINET, CUPBOARD AND BENCH DETAILS.
- REFER TO ELECTRICAL SPECIFICATION FOR ACCESSORY DETAILS AND CIRCUIT IDENTIFICATION REQUIREMENTS.
- UNLESS DETAILED OTHERWISE ALL SWITCHES, PUSHBUTTONS, KEY PADS, CARD READER, MANUAL CALL POINTS AND THE LIKE SHALL BE INSTALLED BETWEEN 900mm - 1100mm AFL AND NOT LESS THAN 500mm TO AN INTERNAL CORNER SEE AS1428.1 SECTION 13 AND SECTION 14.
- IN ALL WET AREAS INSTALL OUTLETS, LIGHT SWITCHES AND LIGHT FITTINGS TO CONFORM WITH CLAUSE 6.2 OF AS/NZS 3000
- WHERE ELECTRICAL SERVICES ARE PROVIDED FOR OTHER TRADES IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE LOCATION AND ALL CONNECTION DETAILS PRIOR TO COMMENCING WORK.
- MAINTAIN THE FIRE AND ACOUSTIC RATINGS ON ALL FIRE AND ACOUSTIC RATED WALLS WHEN CHASING AND WALL BOX INSTALLATION OCCURS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE, SMOKE AND ACOUSTIC RATED WALLS.

ALL SERVICES ON FIRE RATED WALLS SHALL BE INSTALLED TO COMPLY WITH SPECIFICATION 13 OF THE BCA 2022 AMENDMENT N° 1.

ALL OUTLETS, LIGHT SWITCHES AND THE LIKE ON FIRE AND ACOUSTIC RATED WALLS SHALL BE INSTALLED USING FIRE AND ACOUSTIC RATED WALL BOXES.

|                                                                                                                                                                                                                                                                                                         |            |                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|
|                                                                                                                                                                                                                                                                                                         |            |                   |
| 0                                                                                                                                                                                                                                                                                                       | 24.11.2025 | ISSUED FOR TENDER |
| REV                                                                                                                                                                                                                                                                                                     | DATE       | DESCRIPTION       |
| <div><div>MKA<br/>ELECTRICAL<br/>DESIGN CONSULTANTS</div><div>P.O. Box 1085,<br/>Osborne Park DC W.A. 6916<br/>Tel: (08) 9244 1142<br/>Email: mark@mkadesign.com.au<br/>Web Site: www.mkadesign.com.au</div></div> |            |                   |
| ARCHITECT:                                                                                                                                                                                                                                                                                              |            |                   |
| <div><div>Hodge</div><div>Collard Preston</div><div>ARCHITECTS</div></div>                                                                                                                                                                                                                              |            |                   |
| <div>Third Floor, 28 Richardson Street, West Perth, WA 6005<br/>PO Box 743, West Perth, WA 6872<br/>Ph: (08) 9322 5144 Fax: (08) 9322 5740<br/>Email: admin@hodgepreston.com</div>                                                                                                                      |            |                   |
| SITE:                                                                                                                                                                                                                                                                                                   |            |                   |
| <div>EMMANUEL CC CAFETERIA</div> <div>122 HAMMOND ROAD,</div> <div>SUCCESS WA</div>                                                                                                                                                                                                                     |            |                   |
| DRAWING:                                                                                                                                                                                                                                                                                                |            |                   |
| <div>LEGEND SHEET</div>                                                                                                                                                                                                                                                                                 |            |                   |
| <div><div><div>SCALE:</div><div>1:100 on A1</div></div><div><div>DATE:</div><div>AUG 2025</div></div><div><div>DRAWN:</div><div>JRLD</div></div><div><div>CHECKED:</div><div>MSA</div></div></div>                                                                                                      |            |                   |
| <div><div><div>PROJECT N°:</div><div>PN400</div></div><div><div>DRAWING N°:</div><div>E.01</div></div><div><div>REV:</div><div>0</div></div></div>                                                                                                                                                      |            |                   |
| ELECTRICAL DESIGN CONSULTANTS                                                                                                                                                                                                                                                                           |            |                   |
| COPYRIGHT MKA ELECTRICAL 2025 ©                                                                                                                                                                                                                                                                         |            |                   |



**NOTES**

① DENOTES CLIPSALE OR EQUIVALENT CAT NO 56K SERIES KEY LOCKABLE IP66 RATED WEATHERPROOF GPO, CAPABLE OF BEING LOCKED IN BOTH "ON" AND "OFF" POSITIONS. CONNECT GPO TO THE GPO WITHIN THE CAFETERIA FURNITURE STORE (CCT P12) SHOWN E.05. INSTALL CABLING IN CONDUIT U/GROUND.

ALLOW FOR ALL REQUIRED TRENCHING, EXCAVATION, BACKFILLING, COMPACTION AND REINSTATEMENT OF ALL SURFACES TO EQUAL OR BETTER CONDITION THAN EXISTING

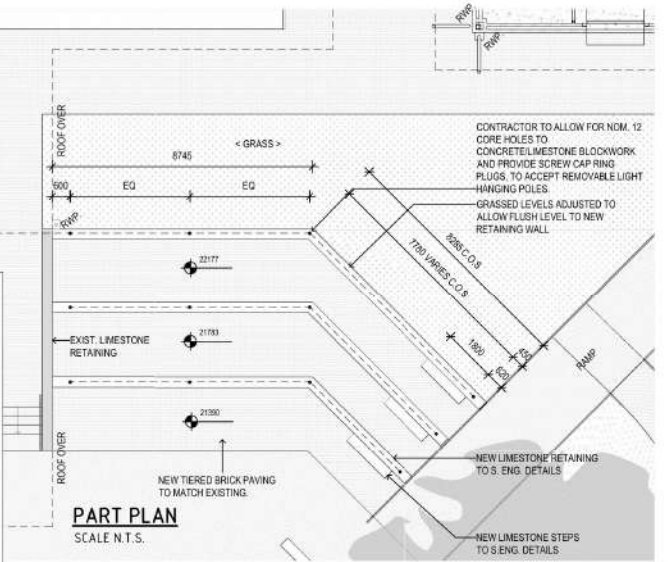
- SITE LEGEND**
- UNLESS OTHERWISE SHOWN ALL ITEMS ARE NEW TO BE SUPPLIED AND INSTALLED.
- EXTENT OF NEW BUILDING WORKS
  - SMB SITE MAIN SWITCHBOARD
  - MSB BUILDING MAIN SWITCHBOARD
  - DBN BUILDING DISTRIBUTION SWITCHBOARD
  - N DENOTES BOARD NUMBER
  - P NEW POWER PIT, MASCOT CJP380. SEE NOTE 8.
  - C NEW COMMS. PIT, MASCOT CJP350. SEE NOTE 8.
  - NEW EARTH PIT.
  - EP EXISTING POWER PIT.
  - EC EXISTING COMMS PIT.
  - CD TELECOMMUNICATIONS CAMPUS DISTRIBUTOR
  - BACK VOICE/ DATA COMMUNICATIONS RACK (CDF)
  - SCP SECURITY MAIN EQUIPMENT CONTROL PANEL
  - NEW POLE TOP LUMINAIRE ON 3500MM POLE REFER TO E02 FOR LUMINAIRE TYPE.
  - NEW UNDERGROUND POWER CONDUIT
  - NEW UNDERGROUND COMMS. CONDUIT
  - EXISTING UNDERGROUND POWER CONDUIT
  - EXISTING UNDERGROUND COMMS. CONDUIT
  - CONDUIT CAPPED FOR FUTURE. PROVIDE DIMENSIONS LOCATING END OF CONDUITS ON AS CONSTRUCTED DRAWINGS.
  - IP50 = 1x50MM POWER CONDUIT
  - 1C50 = 1x50MM COMMUNICATIONS CONDUIT
  - (EX) = EXISTING TO REMAIN
  - (NEW) = NEW ITEM TO BE SUPPLIED AND INSTALLED

| DRAWING SCHEDULE - ELECTRICAL SERVICES |                    |                      |
|----------------------------------------|--------------------|----------------------|
| DWG No.                                | BUILDING           | SERVICES             |
| E01                                    | LEGENDS & VARIANTS | ELECTRICAL SERVICES  |
| E02                                    | SITE PLAN 1:500    | ELECTRICAL SERVICES  |
| E03                                    | CAFETERIA          | EXISTING POWER & ELV |
| E04                                    | CAFETERIA          | EXISTING LIGHTING    |
| E05                                    | CAFETERIA          | PROPOSED POWER & ELV |
| E06                                    | CAFETERIA          | PROPOSED LIGHTING    |
| E07                                    | CAFETERIA          | SECURITY             |
| E08                                    | CAFETERIA          | LINE DIAGRAMS        |

**SITE PLAN**  
SCALE 1:500

- 10A DOUBLE Weatherproof GPO
- 6 x C50 Communication Conduit
- 1 x P50 Power Conduit
- 1 x P32 Power Conduit
- 2 x P80 Power Conduit
- New Earth Pit
- New Power Pit. Mascot CJP380

- 1.0 EA
- 21.2 M
- 31.7 M
- 35.6 M
- 31.7 M
- 1.0 EA
- 1.0 EA



**PART PLAN**  
SCALE N.T.S.

|     |            |                   |
|-----|------------|-------------------|
| 0   | 24.11.2025 | ISSUED FOR TENDER |
| REV | DATE       | DESCRIPTION       |

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**SITE:**  
**EMMANUEL CC CAFETERIA**  
**122 HAMMOND ROAD,**  
**SUCCESS WA**

**DRAWING:**  
**SITE PLAN-EXISTING**

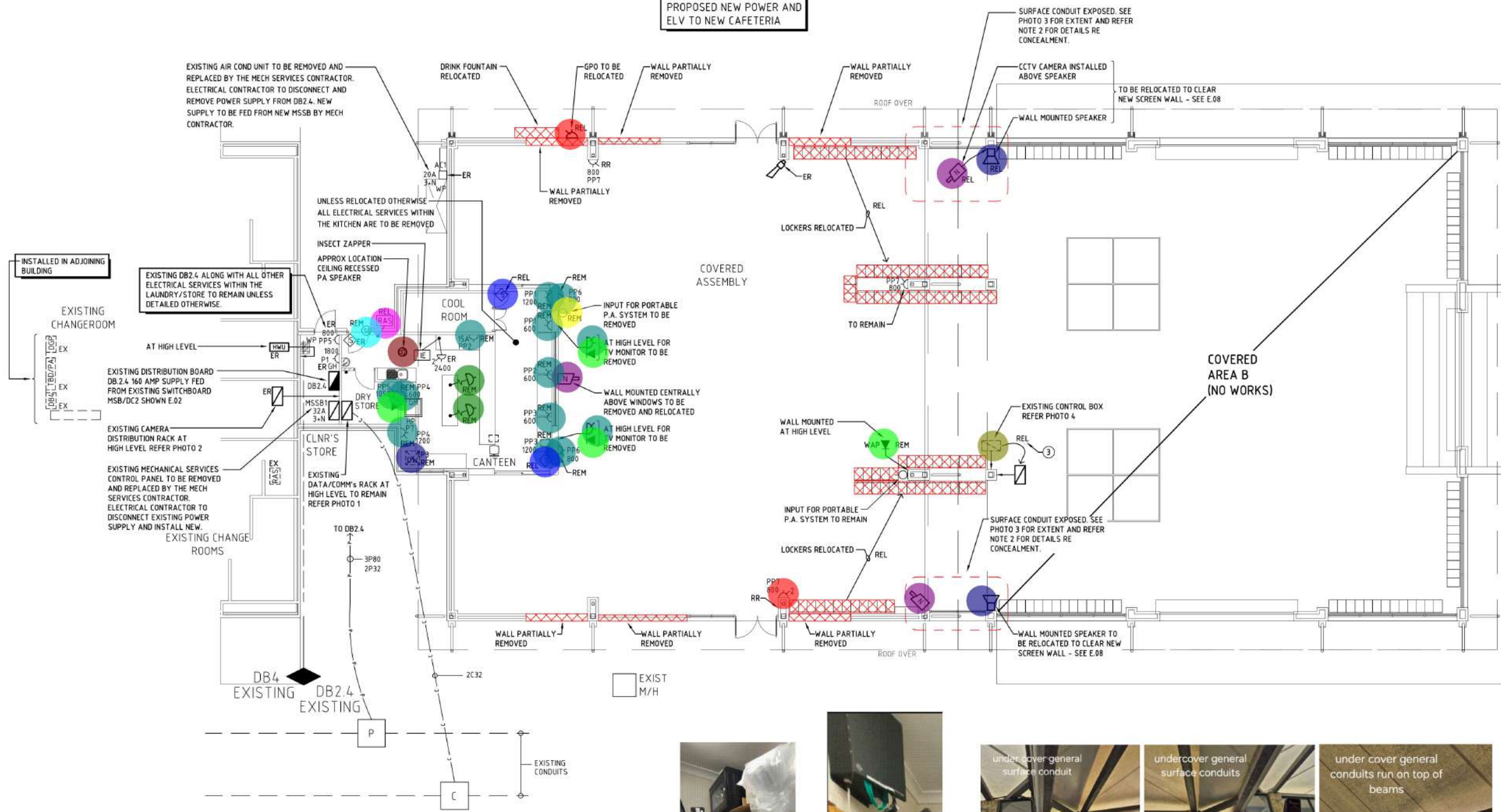
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| SCALE:      | DATE:    | DRAWN: | CHECKED: |
| 1:500 ON A1 | AUG 2025 | JRLD   | MSA      |

PROJECT N°: **PN400** DRAWING N°: **E.02** REV: **0**

**ELECTRICAL DESIGN CONSULTANTS**

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REFER DRAWING E.06 FOR  
PROPOSED NEW POWER AND  
ELV TO NEW CAFETERIA



## NOTES

- THIS DRAWING DOES NOT PURPORT TO SHOW ALL EXISTING ELECTRICAL SERVICES. CONTRACTORS SHALL CARRY OUT A FULL SITE INSPECTION PRIOR TO TENDER TO CONFIRM THE LOCATION, OPERATION, AND EXTENT OF ALL EXISTING ELECTRICAL SERVICES AND ASSOCIATED EQUIPMENT.  
  
ALLOW TO DISCONNECT AND REMOVE ALL REDUNDANT ELECTRICAL EQUIPMENT, INCLUDING ELV AND LV CABLES, MADE REDUNDANT BY THE NEW WORKS. ALL REUSABLE ITEMS SUCH AS PA SPEAKERS, WIRELESS ACCESS POINTS, AND SIMILAR SHALL BE RETURNED TO THE SCHOOL. REFER TO ARCHITECTURAL DEMOLITION PLANS AND THE ELECTRICAL SPECIFICATION FOR THE FULL EXTENT OF DEMOLITION WORKS.
- EXISTING INSTALLATION AND SCOPE OF WORKS - CABLING MODIFICATIONS.  
  
THE EXISTING ELECTRICAL INSTALLATION INCLUDES NUMEROUS SURFACE-MOUNTED CONDUITS AND CABLES FIXED ALONG WALLS, EXPOSED ROOF BEAMS, AND OTHER STRUCTURAL ELEMENTS. THE INSTALLATION ALSO INCLUDES LOOSELY SUPPORTED CABLING AND VARIOUS ITEMS OF OBSOLETE EQUIPMENT.  
  
AS PART OF THE NEW WORKS, THE ELECTRICAL CONTRACTOR SHALL ALLOW TO CARRY OUT THE FOLLOWING:
  - NEATLY REGROUP, SECURELY SUPPORT AND CONCEAL ALL EXPOSED REQUIRED CABLING.
  - WHERE CONCEALMENT IS NOT POSSIBLE, ALLOW TO INSTALL MINIMUM LENGTH SURFACE-MOUNTED DUCTING OR CONDUIT, AS DETAILED ON DRAWING E.07.
- DENOTES EXISTING CONTROL BOX TO BE RELOCATED TO THE COVERED AREA B SIDE. INSTALLED AS DETAILED ON THE ARCHITECTURAL DRAWINGS. CONFIRM FUNCTION OF THE CONTROL BOX, INCLUDING ALL ASSOCIATED CABLING, SWITCHES, AND CONTROLS ETC DURING THE TENDER INSPECTION. ALLOW TO REMOVE ALL REDUNDANT CABLING, SWITCHES AND CONTROLS AND REINSTALL ALL REQUIRED SERVICES TO THE NEW POSITION SHOWN. PRIOR TO COMMENCING WORKS, ADVISE THE SUPERINTENDENT OF THE FULL FUNCTION OF THE CONTROL BOX AND REQUEST CONFIRMATION AND/OR INSTRUCTION ON HOW TO PROCEED WITH THE RELOCATION AND REINSTATEMENT WORKS.

## EXISTING SYMBOLS PREFIXES:

- 'ER' = EXISTING TO REMAIN  
'REM' = EXISTING REMOVED  
'REL' = EXISTING RELOCATED  
'RR' = EXISTING REMOVED AND TO BE REPLACED WITH NEW

SYMBOLS AND VARIANTS SHOWN ON THIS DRAWING DIFFER TO THAT SHOWN E.01. THEY ARE APPLICABLE TO THIS DRAWING ONLY.

DRAWING TO BE  
PRINTED IN COLOUR

## POWER & ELV FLOOR PLAN

SCALE 1:100

- Remove And Salvage Existing Wall Mounted PA Speaker
- Remove And Salvage Existing CCTV Camera
- Remove Existing Double GPO
- Remove And Salvage Existing Double GPO
- Remove Existing RJ45 Data Outlet
- Remove Existing Input For Portable PA System
- Remove And Salvage Existing PIR Sensor
- Remove And Salvage Existing Remote Arming Station
- Remove Existing Security Contact For Door
- Remove And Salvage Existing Ceiling Mounted PA Speaker
- Remove Existing Pendant Socket Outlet
- Remove And Salvage Existing Control Box
- remove Existing Floor Outlet Box



PHOTO 1



PHOTO 2

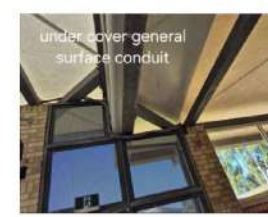


PHOTO 3

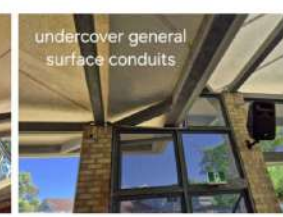


PHOTO 4

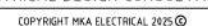
EXISTING CONTROL BOX

|                                       |        |
|---------------------------------------|--------|
| GENERAL POWER CIRCUIT                 | 1.0 EA |
| RED PROTECTED POWER CIRCUIT           | 1.0 EA |
| WALL MOUNTED WIRING                   | 1.0 EA |
| OUTLET MOUNTED WIRING                 | 1.0 EA |
| WIRING WITH COMBINED SURGE PROTECTION | 1.0 EA |
| WIRING WITH COMBINED SURGE PROTECTION | 1.0 EA |
| WIRING WITH COMBINED SURGE PROTECTION | 1.0 EA |
| WIRING WITH COMBINED SURGE PROTECTION | 1.0 EA |
| WIRING WITH COMBINED SURGE PROTECTION | 1.0 EA |
| WIRING WITH COMBINED SURGE PROTECTION | 1.0 EA |

|                            |        |
|----------------------------|--------|
| TELEVISION OUTLET (2000)   | 1.0 EA |
| EMERGENCY ISOLATION SWITCH | 1.0 EA |
| KEY SWITCH (2000)          | 1.0 EA |
| WALL BOX & WIRING          | 1.0 EA |
| WALL BOX & WIRING          | 1.0 EA |
| WALL BOX & WIRING          | 1.0 EA |
| WALL BOX & WIRING          | 1.0 EA |
| WALL BOX & WIRING          | 1.0 EA |
| WALL BOX & WIRING          | 1.0 EA |

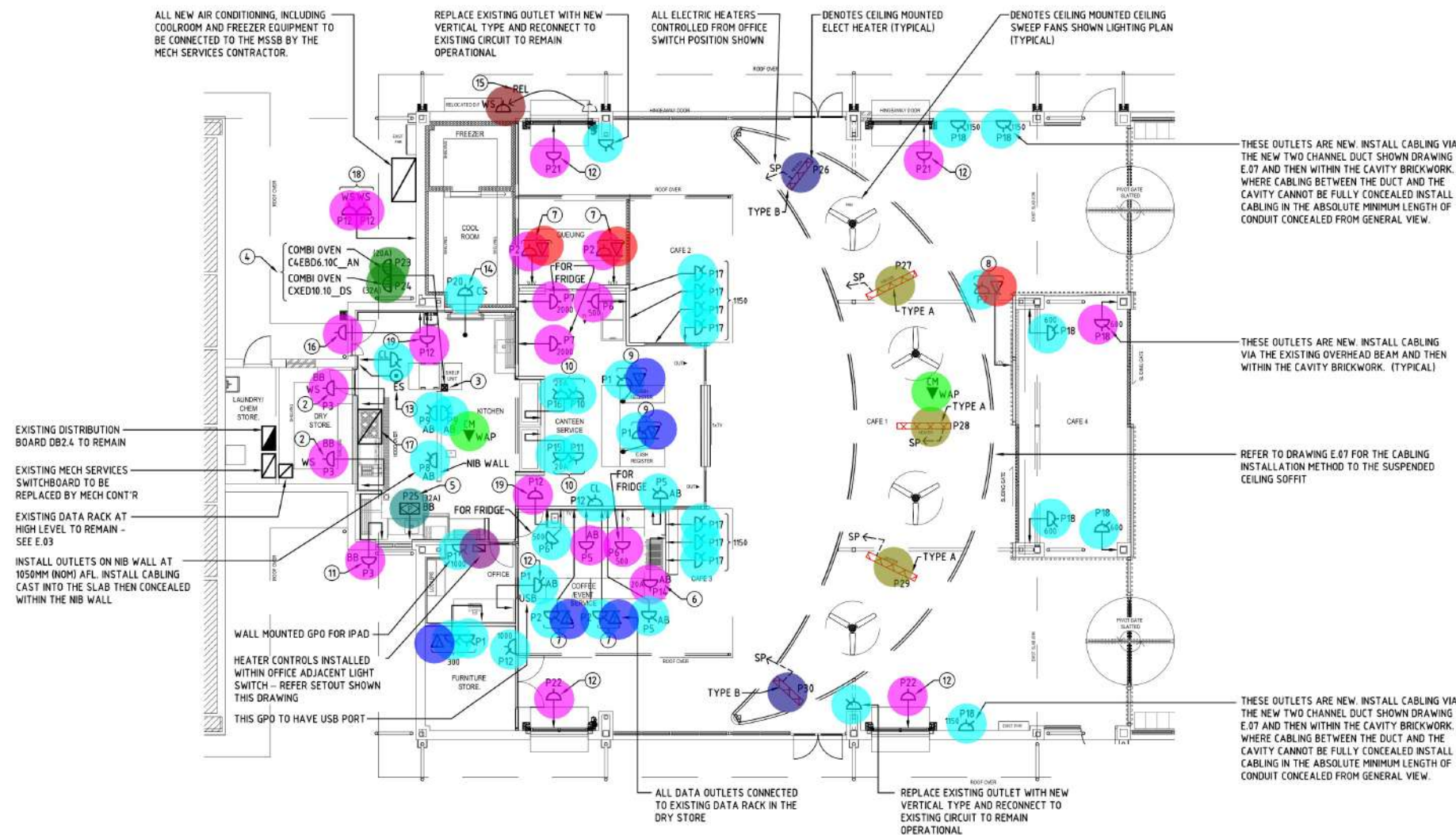
|     |                                        |              |                                           |
|-----|----------------------------------------|--------------|-------------------------------------------|
| SCP | MAIN SECURITY CONTROL PANEL            | CLOCK (2200) | 2 CHANNEL WALL DUCT                       |
| DGP | SECURITY DATA GATHERING PANEL          | PA           | PUBLIC ADDRESS MASTER UNIT                |
| RAS | REMOTE ARMING STATION                  | CATV         | CATV HEAD END EQUIPMENT                   |
| S   | SECURITY DETECTOR (2400)               | TE           | TOILET EXHAUST REMOTE RUN AND FAULT LIGHT |
| BG  | SECURITY DETECTOR (BREAK GLASS SENSOR) |              |                                           |
| SC  | SECURITY CONTACT                       |              |                                           |
| SS  | SECURITY STROBE AND SIREN UNIT         |              |                                           |

|                                                                                                                                                                                                                                                                                |                  |                   |
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| REV                                                                                                                                                                                                                                                                            | DATE             | DESCRIPTION       |
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| SITE: <b>EMMANUEL CC CAFETERIA</b><br><b>122 HAMMOND ROAD,</b><br><b>SUCCESS WA</b>                                                                                                                                                                                            |                  |                   |
| DRAWING: <b>EXISTING POWER PLAN</b>                                                                                                                                                                                                                                            |                  |                   |
| SCALE: 1:100 ON A1                                                                                                                                                                                                                                                             | DATE: AUG 2025   | DRAWN: JRLD       |
| PROJECT N°: PN400                                                                                                                                                                                                                                                              | DRAWING N°: E.03 | CHECKED: MSA      |
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| REV: 0                                                                                                                                                                                                                                                                         |                  |                   |
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## NOTES

- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND ALL OTHER SERVICE DRAWINGS. CO-ORDINATE WITH THE BUILDER AND ALL TRADES TO AVOID CLASHES.
- FOR GAS IGNITION/CONTROLS INSTALL A CLIPSAL WSC SERIES (OR APPROVED EQUIVALENT) GPO BELOW BENCH, APPROXIMATELY 600mm AFL, POSITIONED ADJACENT TO AND AS CLOSE AS PRACTICABLE TO THE GAS APPLIANCE (DO NOT INSTALL BEHIND OR ABOVE THE GAS HOT PLATES).
- DENOTES ECD CAT NO. B0100 SERIES 100 x 100mm STAINLESS STEEL SERVICE POST FITTED WITH 2 x IP66 RATED FLUSH MOUNTED THREE PHASE OUTLETS FOR THE COMBI OVENS, INSTALLED ONE ABOVE THE OTHER BEHIND THE COMBI OVENS AND CLEAR OF THE WORK BENCH. ORDER AND INSTALL THE POST TO SUIT THE INSTALLATION REQUIREMENTS AND OUTLET LOCATIONS.
- ALLOW TO CONNECT TO EACH COMBI OVEN VIA A THREE PHASE 32 AMP RATED FLEXIBLE CHORD (RWBK - E) FITTED WITH A CLIPSAL CAT NO 56PA SERIES 5 PIN ANGLED PLUG TOP, SELECTED TO SUIT THE OUTLET RATING.
- ALLOW TO DIRECT CONNECT TO THE PASSTHROUGH DISHWASHER VIA AN ISOLATOR (BY ELECT. CONT) INSTALLED BELOW THE BENCH AND ADJACENT TO THE DISHWASHER POSITION (DO NOT INSTALL THE ISOLATOR BEHIND THE DISHWASHER).
- THE COFFEE MACHINE WILL BE SINGLE PHASE, EITHER A 15 AMP OR 20 AMP RATED, DEPENDING ON THE TYPE SELECTED. TO THE COFFEE MACHINE INSTALL A 2C - E 4.0mmsq CABLE AND TERMINATE AT EITHER A 15 AMP OUTLET OR 20 AMP OUTLET (ALLOW FOR EITHER OPTION) TO SUIT THE COFFEE MACHINE TYPE INSTALLED.
- FOR EACH TV MONITOR, INSTALL A DGPO AND A SINGLE DATA OUTLET CONNECTED TO THE SCHOOL'S NETWORK-BASED MEDIA SOURCE. INSTALL THE OUTLETS AT HIGH LEVEL, BEHIND THE TV MONITOR AND CONCEALED FROM GENERAL VIEW. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS.
- AS FOR NOTE 7 BUT CABLING TO BE CONCEALED BETWEEN TIMBER WORK AS SHOWN ON ARCHITECTURAL DRAWINGS.
- ALLOW TO INSTALL OUTLETS BELOW BENCH USING CLIPSAL CAT. NO. 238 MOUNTING BLOCKS, WITH CABLING BELOW BENCH CONCEALED WHERE POSSIBLE. OTHERWISE, INSTALL A MINIMUM LENGTH OF CONDUIT CONCEALED FROM GENERAL VIEW. INSTALL CABLING TO THE BENCH CAST INTO THE SLAB. CONFIRM ALL DETAILS PRIOR TO COMMENCING WORK, INCLUDING BENCH POSITIONS AND CONDUIT EXIT POINTS FROM SLAB.
- DENOTES 20 AMP OUTLET FOR HOT CUPBOARD, PLUS DGPO FOR HEATED CERAMIC DISPLAY AND HEAT LAMPS. THE HOT CUPBOARD, HEATED CERAMIC DISPLAY, AND HEAT LAMPS WILL BE SUPPLIED WITH PLUGS AND FLEXIBLE CORDS. INSTALL OUTLETS TO THE LOW HEIGHT WALL, POSITIONED TO SUIT EQUIPMENT, CONCEALED FROM VIEW.
- FOR OSMOSIS UNIT, LOCATION SHOWN IS INDICATIVE ONLY - CONFIRM EXACT POSITION PRIOR TO COMMENCING WORK.
- FOR THE HINGEAWAY DOOR, INSTALL SKIRTING TYPE GPO/MOUNTING BLOCK IN TRANSOM OF DOOR WHERE SPACE EXISTS, OTHERWISE MAKE CONNECTION IN ACCORDANCE WITH MANUFACTURERS INSTALLATION DETAILS. IN THE EVENT THAT A GPO EXTERNAL TO THE TRANSOM IS REQUIRED, SAME SHALL BE CONCEALED FROM VIEW AS MUCH AS POSSIBLE. CONTROLS TO BE BY OTHERS.
- DENOTES EMERGENCY STOP PUSH BUTTON FOR GAS SHUT-OFF VALVE BY HYDRAULICS CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE WALL BOX AND CABLING PROVISIONS. CONFIRM LOCATION AND ALL INSTALLATION DETAILS PRIOR TO COMMENCING WORK.
- DENOTES DGPO INSTALLED FOR THE GAS SHUT-OFF VALVE INSTALLED BY THE HYDRAULICS CONTRACTOR. LOCATION SHOWN IS NOTIONAL - CONFIRM ON SITE.
- RELOCATE THE EXISTING GPO FOR THE REFRIGERATED DRINKING TROUGH. INSTALL THE GPO AT LOW LEVEL, CONCEALED FROM GENERAL VIEW, AND CONNECT IT TO THE EXISTING CIRCUIT.
- FOR THE INSECT ZAPPER, INSTALL A GPO CONNECTED TO ITS ORIGINAL CIRCUIT. CONFIRM THE LOCATION OF THE INSECT ZAPPER PRIOR TO INSTALLING.
- NEW EXHAUST HOOD TO BE SUPPLIED, INSTALLED AND CONNECTED TO THE MSSB BY THE MECH SERVICES CONTRACTOR.
- ADJACENT TO EACH GAS HWU INSTALL A CLIPSAL WSC SERIES WEATHERPROOF OUTLET FOR GAS IGNITION. LOCATE OUTLETS AS DIRECTED BY THE HYDRAULICS CONTRACTOR.
- BELOW HAND WASH BASIN INSTALL A SINGLE GPO FOR THE ELECTRONIC MIXER. LOCATE OUTLET AS DIRECTED BY THE HYDRAULICS CONTRACTOR, INSTALLED TO CONFORM WITH SECTION 6 OF AS/NZS 3000.



## POWER & MISCELLANEOUS FLOOR PLAN

SCALE 1:100

- 10A SINGLE GPO
- 10A DOUBLE GPO
- Relocate Existing Single GPO
- Clipsal 56 Series Ip66 Five Pin Three Phase Socket Outlet Or Similar Product Equivalent In Function,
- Provide Heatstrip Radiant Electric Heater. Heater To Be Surface Mounted Using The Manufacturer'S Standard Mounting Br
- "Provide Heatstrip Radiant Electric Heater. Heater To Be Surface Mounted Using The Manufacturer'S Standard Mounting B
- Heater Controls Installed Within Office Adjacent Light Switch
- Allow To Direct Connect To The Passthrough Dishwasher Via An Isolator (B Electrical Contractor)
- Single RJ45 Socket In Flush Plate For Voice/Data With Cat 6A Utp Cable Terminated At Both Ends.
- Double RJ45 Socket In Flush Plate For Voice/Data With Cat 6A Utp Cable Terminated At Both Ends.
- Ceiling Mounted 1X Category 6A Data Outlet For Wireless Access Point (WAP).

## FFE SCHEDULE - PROPOSED

|       |                                                                 |
|-------|-----------------------------------------------------------------|
| E-001 | BURGER CHUTE (HOT CUPBOARD/GLASS/HEAT LAMPS)                    |
| E-002 | BAR FRIDGE (MODEL: SD-T2-JC190-GC)                              |
| E-003 | COMBI STEAMER (MODEL: C4EBD610C)                                |
| E-004 | COMBI STEAMER (MODEL: CXEBD10.10)                               |
| E-005 | PLANETARY MIXER                                                 |
| E-006 | OPEN DECK FRIDGE (MODEL: OD1100N.LS)                            |
| E-007 | FOOD PROCESSORS                                                 |
| E-008 | STICK BLENDER (MODEL: MX 225)                                   |
| E-009 | 900mm SIX BURNER GAS COOKTOP (MODEL: C9D)                       |
| E-010 | PASSTHROUGH WAREWASHER (MODEL: AL8C)                            |
|       | 900mm GRIDDLE GAS COOKTOP (MODEL: C9A)                          |
|       | COFFEE MACHINE - POLARIS                                        |
|       | COFFEE GRINDER - SUPER JOLLY                                    |
|       | 400mm SINGLE PAN GAS FRYER                                      |
|       | ICE CREAM FREEZER                                               |
|       | INFILL BENCHES (COBRA)                                          |
|       | DISHWASH INLET BENCH                                            |
|       | REVERSE OSMOSIS SYSTEM (MODEL: QUADRO H200)                     |
|       | ITEM LOCATIONS SHOWN INDICATIVE ONLY AND ARE SUBJECT TO CHANGE. |

21.0 EA

38.0 EA

1.0 EA

2.0 EA

3.0 EA

1.0 EA

1.0 EA

3.0 EA

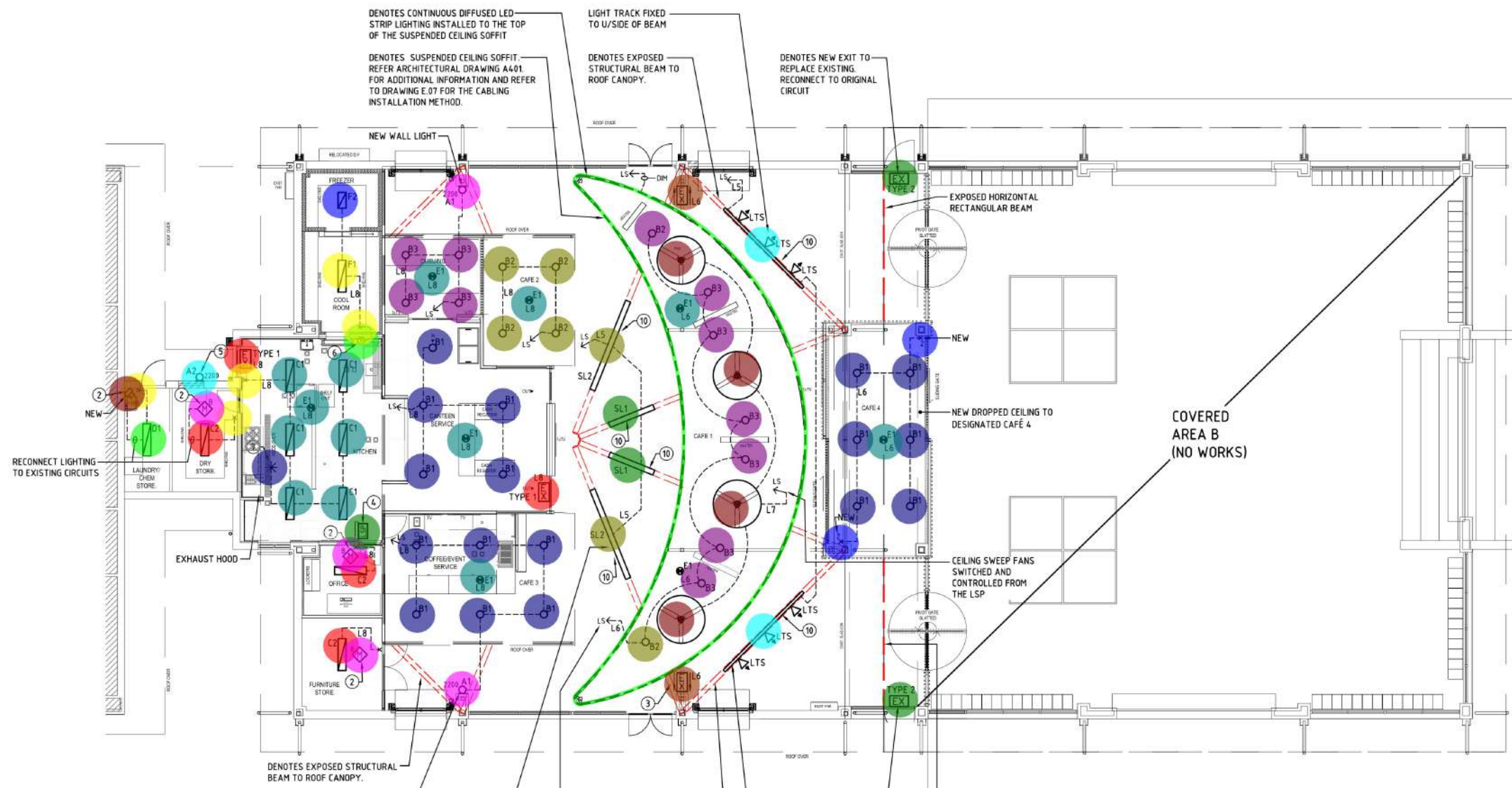
5.0 EA

2.0 EA

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| <b>ARCHITECT:</b><br><p><b>Hodge Collard Preston</b><br/>ARCHITECTS</p> <p>Third Floor, 28 Richardson Street, West Perth, WA 6005<br/>PO Box 743, West Perth, WA 6872<br/>Ph: (08) 9322 5144 Fax: (08) 9322 5740<br/>Email: <a href="mailto:info@hodgecollard.com">info@hodgecollard.com</a></p> |             |                   |
| <b>SITE:</b><br><b>EMMANUEL CC CAFETERIA</b><br><b>122 HAMMOND ROAD,</b><br><b>SUCCESS WA</b>                                                                                                                                                                                                    |             |                   |
| <b>DRAWING:</b><br><b>FLOOR PLAN POWER</b><br><b>AND MISCELLANEOUS FLOOR PLAN</b>                                                                                                                                                                                                                |             |                   |
| SCALE:                                                                                                                                                                                                                                                                                           | DATE:       | DRAWN:            |
| 1:100 on A1                                                                                                                                                                                                                                                                                      | OCT 2025    | JRLD              |
| PROJECT N°:                                                                                                                                                                                                                                                                                      | DRAWING N°: | CHECKED:          |
| PN400                                                                                                                                                                                                                                                                                            | E.05        | MSA               |
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## NOTES - DRAWING SPECIFIC

- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND ALL OTHER SERVICE DRAWINGS. CO-ORDINATE WITH THE BUILDER AND ALL TRADES TO AVOID CLASHES.
  - CONNECT MOTION SENSOR IN SERIES WITH LIGHT SWITCHES FOR CONTROL OF ROOM LIGHTING - SEE TYPICAL CONTROL DIAGRAM SHOWN E.01.
  - DENOTES TYPE 3 DOUBLE SIDED EXIT SIGN CANTILEVER MOUNTED WITH TOP OF EXIT INSTALLED AT 2400mm AFL. MOUNTING BRACKET TO BE ELECT'L CONTR AND INSTALLED SO THAT IT'S FULLY CONCEALED FROM VIEW.
  - DENOTES LIGHTING SWITCH PANEL (LSP) CONSISTING OF THE FOLLOWING:
    - 1 x SIX GANG SWITCH PLATE FOR CONTROL OF:
      - CANTEEN SERVICE LIGHTING
      - QUEUING AREA LIGHTING
      - COFFEE/EVENT SERVICE LIGHTING
      - CAFÉ 2 LIGHTING
      - TYPE SL1 AND SL2 LIGHTING
      - TYPE LTS TRACK LIGHTING
    - 1 x THREE GANG SWITCH PLATE FOR CONTROL OF:
      - TYPE B2 LIGHTING TO THE CAFÉ 1 AREA
      - CEILING SWEEP FANS TO THE CAFÉ 1 AREA
  - NEW WALL LIGHT CONNECTED TO EXISTING SECURITY LIGHTING CIRCUIT FED FROM EXISTING DB 2.4.
  - CLIPSAL CAT NO WS226S LIGHT SWITCH - INSTALLED INTERNALLY, CLEAR OF SHELVING, WITH NEON INDICATOR INSTALLED EXTERNALLY (ALL BY ELECT. CONTR). NEON IS TO OPERATE WHEN LIGHTING IS "ON".
  - ALLOW TO CONNECT AND SWITCH THE EXHAUST HOOD LIGHTING WITH THE KITCHEN LIGHTING AS SHOWN.
  - SUPPLY AND INSTALL A CONTINUOUS LED STRIP LIGHT INSTALLED ON THE TOP OF THE SUSPENDED CEILING SOFFIT AS DETAILED ON THIS DRAWING. SUPPLY AND INSTALL 45-DEGREE MOUNTING BRACKETS AT REGULAR INTERVALS TO ENSURE THE LED STRIP IS AIMED UPWARD AND FORWARD AT APPROXIMATELY 45 DEGREES. SPACE BRACKETS TO ALLOW THE LED STRIP TO FOLLOW THE CURVED PROFILE OF THE SUSPENDED CEILING SOFFIT. INSTALL SUFFICIENT FIXINGS TO SECURELY SUPPORT THE STRIP AND MAINTAIN AN EVEN, NATURAL CURVE ALONG THE SOFFIT. THE LED STRIP LIGHT IS TO BE FULLY CONCEALED FROM VIEW WHEN INSTALLED. ALLOW TO INSTALL THE STRIP IN SECTIONS AS REQUIRED TO SUIT CURVATURE, ACCESS, AND MANUFACTURER RECOMMENDATIONS.
- THE LED STRIP LIGHT IS TO BE CONTROLLED/DIMMED TO BE CONTROLLED BY CASAMBI WIRELESS CONTROL SYSTEM UTILISING BLUETOOTH LOW ENERGY COMMUNICATION BETWEEN DEVICES. BLUETOOTH COMMUNICATION TO USE A MESH NETWORK WHERE ALL NODES CONNECT TO EACH OTHER DIRECTLY AND NON-HIERARCHICALLY. AN INTERNET CONNECTION IS NOT NECESSARY FOR GENERAL OPERATION AND DAY TO DAY FUNCTIONALITY. APPROXIMATE COMMUNICATION RANGE SHALL BE IN AN INDOOR ENVIRONMENT UP TO 30m AND IN OUTDOOR CONDITIONS UP TO 50m.
- SUSPEND EACH LUMINAIRE USING A STAINLESS STEEL STRAIN WIRE WITH A STAINLESS STEEL FIXING ANCHOR SECURED TO THE OVERHEAD STRUCTURAL BEAM AND A STAINLESS STEEL FIXING BARREL ATTACHED TO THE LUMINAIRE. FOR CABLING INSTALL A WHITE 3 CORE, 15-AMP RATED FLEX INSTALLED WITHIN THE STRUCTURAL BEAM, THEN FROM THE BEAM TO THE LUMINAIRE CLIPPED NEATLY TO THE STRAIN WIRE USING CLEAR NYLON CABLE TIES.
  - CABLING IS TO BE CONCEALED WITHIN THE EXISTING STRUCTURAL BEAM. ALLOW TO DRILL ALL REQUIRED FIXING POINTS AND CABLING ENTRY/EXIT HOLES INTO THE BEAM, STRICTLY IN ACCORDANCE WITH THE STRUCTURAL ENGINEER'S REQUIREMENTS. CONFIRM ALLOWABLE HOLE SIZES AND LOCATIONS ON SITE PRIOR TO DRILLING.



## LIGHTING FLOOR PLAN

SCALE 1:100

45-DEGREE MOUNTING BRACKET BY ELECTRICAL CONTRACTOR INSTALLED AT REGULAR INTERVALS

CONTINUOUS LED STRIP SECURELY FIXED INTO MOUNTING CLIP

PROPRIETARY MOUNTING CLIP SUPPLIED BY ELECTRICAL CONTRACTOR FIXED TO MOUNTING BRACKET

FRONT FACE OF SUSPENDED CEILING

SOFFIT OF SUSPENDED CEILING

## SECTION - SUSPENDED CEILING SOFFIT LED STRIP LIGHTING DETAIL

REFER ARCHITECTURAL DRAWINGS A300 AND A401 FOR ADDITIONAL INFORMATION

- B2: Recessed Downlight With Driver - LED C4 "Play" Series Cat N° Ag13-13X9-F1 Wide Beam. 5.0 EA
- B1: Recessed Downlight With Driver - LED C4 "Nit" Series Cat N° Bh11-11X9-F2 Wide Beam. 17.0 EA
- B3: As For Type 'B2 But Cat N° Ag13-7X9-F1. 11.0 EA
- C1: 1200Mm X 300Mm Recessed Flat Led Panel - Leds C& Ecofit Cat N° Ap13-35X9Mpbb14 Complet 6.0 EA
- C2: As For Type 'C1' But With 24 Watt. 3.0 EA
- D1: 1200mm (Nom) Led Batten - Limelite Cat N° BI-Sm-1200-23W-4K. 1.0 EA
- F1: Weatherproof Coolrogom Light - Limelite Cat N° Stm-Sm-600 600mm (Nom) In Length 1.0 EA
- F2: Weatherproof Freezer Light - Carandini Pec Gen 4-N 600mm (Nom) In 1.0 EA
- A1: Up/Down Internalwall Light - Leds C4 "Affrodita" Cat N° 808-Flood Double Emission With Wide Beam 2.0 EA
- LTS: Track Light And Spotlight (3-Head Configuration) - Leads C4 "Atom Track 52" Series With 3 ... 2.0 EA
- 1200mm Diameter Ceiling Sweep Fan With 3 Blades. Fans Shall Be Ventair "Stanza" Cat N° Sta120 4.0 EA
- SL1: Continuous Led Extrusion Luminaire, Nominal 90Mm X 50Mm Profile, 2.0 EA
- SL2: As For Type SL1 But 2400 (Nom) In Length - Intralux VI9050-22-Clo-Su-240 -940. 2.0 EA
- Allow To Connect And Switch The Exhaust Hood Lighting With The Kitchen Lighting 1.0 EA
- LED STRIP: Provide Leds C4 "Asai 3D" 16mm Ip67 Led Strip, 24V Pwm Installed In Continuous Length 50.9 M
- E1: Recessed Single Point Emergency Luminaire. Clevertronics Cat N° Llife-Pro Or Similar Product... 7.0 EA
- EX: Sustained Exit Sign With "Running Man" Diffuser. 2.0 EA
- EX: Sustained Exit Sign With "Running Man" Diffuser. 2.0 EA
- EX: Sustained Exit Sign With "Running Man" Diffuser. 2.0 EA
- Clipsal Cat No Ws226S Light Switch 1.0 EA
- Single Switch 4.0 EA
- Two Way Switch 2.0 EA
- RBC521 Single Channel Motion Sensor - Set For 30 Minutes. 3.0 EA
- A2: External Wall Or Ceiling Mounted Luminaire Ip65 Rated With Die-Cast Aluminium Base And Uv ... 1.0 EA
- Clipsal Cat N° 75lr Surface Mounted Motion Sensor Or Similar Product Equivalent In Function, Quali... 1.0 EA
- LSP: Lighting Switch Panel (LSP) Consisting Of The Following: 1.0 EA

| REV | DATE       | DESCRIPTION       |
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| 0   | 24.11.2025 | ISSUED FOR TENDER |

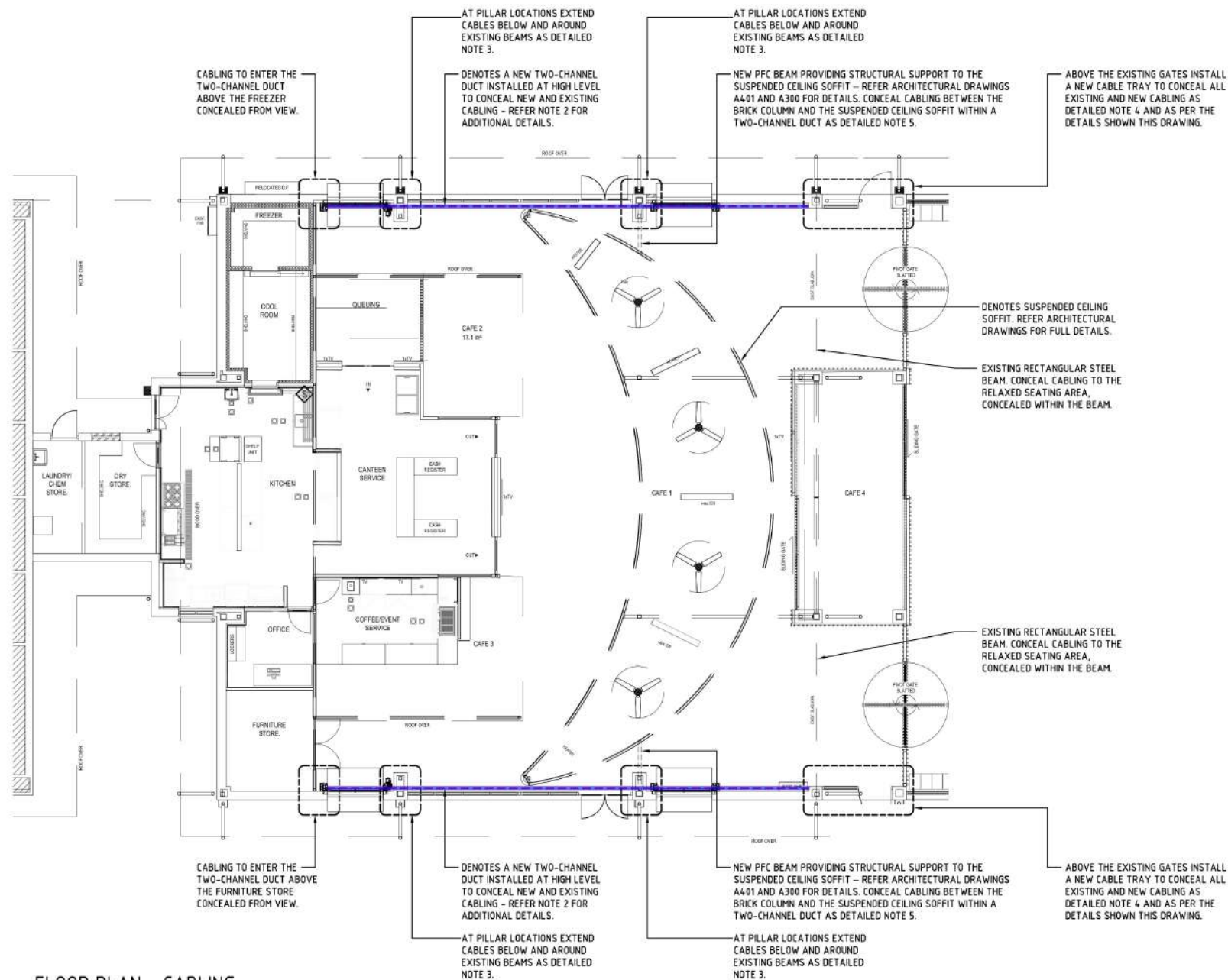
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| DRAWING: | <b>PROPOSED LIGHTING PLAN</b> |
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| SCALE:                          | DATE:       | DRAWN: | CHECKED: |
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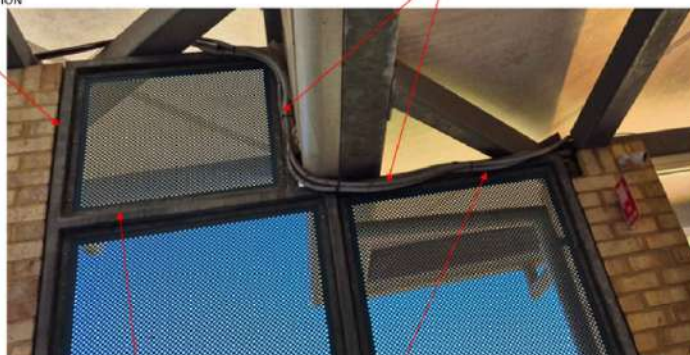


## FLOOR PLAN - CABLING INSTALLATION DETAILS

SCALE 1:100

CABLE TRAY TO RUN VERTICALLY DOWN THIS SECTION FIXED TO THE VERTICAL STEEL FRAME SECTION

REMOVE AND RE-INSTALL EXISTING CABLING CONCEALED WITHIN NEW CABLE TRAY



CABLE TRAY TO RUN HORIZONTALLY BELOW THE STRUCTURAL BEAM - FIXED TO THE HORIZONTAL STEEL FRAME SECTION

### DETAIL 1 - CABLING INSTALLATION ABOVE ENTRY GATE

Note: Cable tray to be of minimum length, with lid. Fix cable tray to existing steel work - do not fix to mesh panels

INSTALL TWO CHANNEL DUCT TO THIS BEAM AS DETAILED NOTE 2 TO CONCEAL ALL EXISTING AND NEW CABLING



PHOTO 2

AT PILLAR LOCATIONS EXTEND CABLES BELOW AND AROUND EXISTING BEAMS AS DETAILED NOTE 3

## GENERAL NOTES

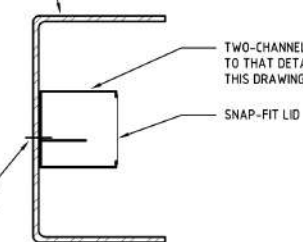
- WHERE CABLING IS REQUIRED TO BE CONCEALED WITHIN THE EXISTING STRUCTURAL STEEL BEAM, OR WHERE ANY DUCTS, CONDUITS, CABLE TRAYS, FIXINGS, OR OTHER ELECTRICAL SUPPORTS ARE TO BE ATTACHED TO THE EXISTING STRUCTURAL BEAMS, ALLOW TO DRILL ALL REQUIRED FIXING POINTS AND ALL CABLING ENTRY AND EXIT HOLES STRICTLY IN ACCORDANCE WITH THE STRUCTURAL ENGINEER'S REQUIREMENTS. CONFIRM ALL ALLOWABLE HOLE SIZES, LOCATIONS, EDGE DISTANCES, AND SPACING WITH THE BUILDER AND/OR STRUCTURAL ENGINEER PRIOR TO ANY DRILLING. NO DRILLING OR PENETRATIONS INTO THE STEEL BEAMS SHALL COMMENCE WITHOUT ENGINEER APPROVAL.
- INSTALL DUCTING TO BOTH SIDES OF THE ROOM AS SHOWN. INSTALLING THE CABLING EVENLY BETWEEN THE DUCTS ON SIDE OF THE ROOM TO REDUCE THE CABLE NUMBER IN EACH DUCT AND MINIMISE THE REQUIRED DUCT SIZE.

## NOTES

- WHERE EXISTING CABLING IS TO BE RELOCATED, ALLOW TO CUT AND EXTEND ALL LV AND ELY CABLES AS NECESSARY TO ACHIEVE CONCEALMENT FOR CABLES THAT CANNOT BE JOINED. ALLOW TO DISCONNECT AND RE-INSTALL THEM SO THEY ARE FULLY CONCEALED WITHIN NEW DUCTWORK OR BY OTHER SUITABLE METHODS.
- TO THE EXISTING GALVANISED RECTANGULAR BEAM LOCATED AT HIGH LEVEL ABOVE THE EXISTING WINDOWS AND BRICK COLUMNS, INSTALL AN ECD CAT NO. WD8550/20, OR APPROVED EQUIVALENT, TWO-CHANNEL ALUMINIUM WALL DUCT WITH A SNAP-FIT LID TO CONCEAL ALL NEW AND EXISTING CABLING. PRIOR TO ORDERING, CONFIRM THAT THE DUCT HEIGHT (85mm) MATCHES THE HEIGHT OF THE EXISTING RECTANGULAR BEAM TO ENSURE A FLUSH INSTALLATION. POWDER-COAT THE DUCT AND ALL ACCESSORIES IN THE COLOUR NOMINATED BY THE ARCHITECT. ALL FIXINGS SHALL BE NEAT, LEVEL, AND CONCEALED.
- AT THE PILLAR LOCATIONS, EXTEND THE DUCT OVER THE BRICKWORK AND AS CLOSE AS PRACTICABLE TO THE STRUCTURAL CANOPY BEAMS. NEATLY GROUP AND ROUTE THE CABLES BELOW AND AROUND THE EXISTING BEAMS TO ACCESS THE TWO-CHANNEL DUCT ON THE OPPOSITE SIDE.
- ABOVE THE GATES, INSTALL A NEW CABLE TRAY SYSTEM TO CONCEAL ALL EXISTING AND NEW CABLING. PROVIDE VERTICAL AND HORIZONTAL CABLE TRAY SECTIONS FIXED TO THE EXISTING GALVANISED FRAMING DIRECTLY BELOW THE STRUCTURAL BEAMS, EXTENDING ONLY THE MINIMUM LENGTH REQUIRED. CABLE TRAY SHALL BE COMPLETE WITH LID, WITH ALL CABLING ENCLOSED AND ROUTED NEATLY WITHIN THE TRAY. COORDINATE SUPPORTS TO SUIT THE EXISTING STEELWORK.
- WITHIN THE PFC BEAM INSTALL A TWO-CHANNEL ALUMINIUM DUCT SIMILAR TO THAT DETAILED NOTE 2. TO CONCEAL ALL NEW CABLING TO THE SUSPENDED CEILING SOFFIT. PRIOR TO ORDERING, CONFIRM THAT THE DUCT HEIGHT (85 MM) MATCHES THE HEIGHT OF THE EXISTING PFC BEAM TO ENSURE A FLUSH INSTALLATION. POWDER-COAT THE DUCT AND ALL ACCESSORIES IN THE COLOUR NOMINATED BY THE ARCHITECT. ALL FIXINGS SHALL BE NEAT, LEVEL, AND CONCEALED.

PFC BEAM FOR STRUCTURAL SUPPORT TO THE SUSPENDED CEILING SOFFIT

FIX DUCT TO THE PFC BEAM IN ACCORDANCE WITH THE STRUCTURAL ENGINEER'S REQUIREMENTS AND AS NOTED IN THE GENERAL NOTES.



## DETAIL 2 - PFC BEAM TO SUSPENDED CEILING SOFFIT

SECTION SHOWN

DRAWING TO BE PRINTED IN COLOUR

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| DRAWING: | <b>FLOOR PLAN</b><br><b>CABLING INSTALLATION DETAILS</b> |
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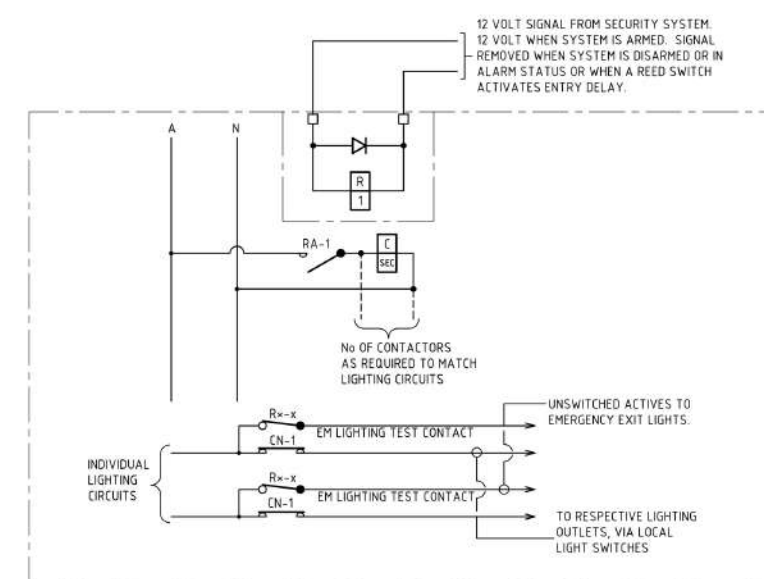
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New Two Channel Duct Intalled @ High Level

33.4 M





- ① EXISTING LIGHTING CIRCUITS ARE NOT RCD PROTECTED. ALLOW TO INSTALL NEW RCD/MCBS TO ALL NEW AND EXISTING LIGHTING CIRCUITS. ALLOW FOR 13 NO RCD/MCBS IN TOTAL FOR BOTH NEW AND EXISTING CIRCUITS, TYPE TO MATCH THE EXISTING.
- ② ALLOW TO INSTALL RCD/MCBS TO ALL NEW AND EXISTING POWER CIRCUITS IN ACCORDANCE WITH CLAUSE 2.6 OF AS/NZS 3000. THERE ARE 19 NO. EXISTING SINGLE PHASE RCD/MCBS AND NO EXISTING THREE PHASE RCD/MCBS. RE-USE ALL EXISTING RCD/MCBS ON BOTH NEW AND EXISTING CIRCUITS.

THERE ARE 35 NO. NEW AND EXISTING SINGLE PHASE POWER CIRCUITS. ALLOW FOR AN ADDITIONAL 16 NO. RCD/MCBS TO PROVIDE RCD PROTECTION TO ALL SINGLE PHASE POWER CIRCUITS, TYPE TO MATCH EXISTING.

THERE ARE 5 NO. NEW AND EXISTING THREE PHASE POWER CIRCUITS (EXCLUDING THE MSSB). ALLOW FOR 5 NO. RCD/MCBS TO PROVIDE RCD PROTECTION TO ALL THREE PHASE POWER CIRCUITS, TYPE TO MATCH EXISTING SINGLE PHASE RCD/MCBS.
- ③ CONNECT LIGHTING ON THIS CIRCUIT, NOT CONTROLLED BY A MOTION SENSOR, INTERFACED WITH THE SECURITY SYSTEM - SEE CONTROL DIAGRAM SHOWN THIS DRAWING.
- ④ SEPARATE ACTIVE TO EXIT AND EMERGENCY LIGHTING CONNECTED TO THE EXISTING EMERGENCY LIGHTING AND EXIT TEST FACILITIES.
- ⑤ SEPARATE ACTIVE TO REMOTE LIGHT SWITCH POSITIONS AND/OR MOTION SENSORS (CONTROLLED LIGHTING).

- ii) DISCRIMINATION BETWEEN PROTECTIVE DEVICES, CLAUSE 2.5 3000 COMPLIANT, IS REQUIRED.
- iii) INSTALL ALL CABLES TO COMPLY WITH THE LATEST VERSION OF AS/NZS 3008.1 AND AS/NZS 3000.  
  
ENSURE THAT THE CABLE SELECTED AND INSTALLATION METHOD HAS A CURRENT CARRYING CAPACITY EXCEEDING THE CIRCUIT PROTECTION DEVICE.
- iiii) FOR ELECTRICAL CIRCUITS WITH A LONG CABLE RUN, THE EARTH LOOP IMPEDANCE MAY BE HIGH. SIZE AND INSTALL CABLEING TO COMPLY WITH CLAUSE 5.7 AND APPENDIX B TABLE B1 OF AS/NZS 3000. INCLUDE COSTS WITHIN THE TENDER BID.
- iv) EXIT AND EMERGENCY LIGHTING REQUIRE AN UNSWITCHED ACTIVE CONNECTED VIA A NORMALLY CLOSED CONTACT OF THE EXIT AND EMERGENCY LIGHTING TEST CONTROLS.
- v) ON ALL RCD/MCB'S INSTALL THE TEST BUTTON FOR EASE OF OPERATION. INSTALL THE TEST BUTTON IN FRONT OF THE ESCUTCHEON AND SUCH THAT THE ESCUTCHEON DOES NOT IMPED THE OPERATION OF THE TEST BUTTON.

- 5.0 EA   
25.0 EA   
1.0 EA   
2.0 EA   
1.0 EA   
10.0 EA   
2.0 EA 
- G SUBMAINS  
5B/DB2



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**DRAWING:**

SECURITY & PA SYSTEM FLOOR PLAN  
AND SINGLE LINE DIAGRAM

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| SCALE:      | DATE:       | DRAWN: | CHECKED: |
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| PROJECT N°: | DRAWING N°: |        | REV:     |
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