

|                  |                                                    |              |                         |
|------------------|----------------------------------------------------|--------------|-------------------------|
| <b>PEAK REF:</b> | <b>P7166</b>                                       | <b>Date:</b> | Friday, 21 August, 2026 |
| <b>Project:</b>  | <b>Nabawa Changerooms</b>                          |              |                         |
| <b>Owner</b>     | <b>Shire of Chapman Valley</b>                     |              |                         |
| <b>Address</b>   | <b>3320 Chapman Valley Road, Nabawa, W.A. 6532</b> |              |                         |

This statement of design compliance is provided in support of documentation submitted to achieve a Certificate of Design Compliance for the above proposed project.

In making this statement of design compliance I confirm that I have the appropriate experience and competence to certify all of the matters covered by this certification and I have carried out the design of this project to comply with the requirements of the following building standards and design criteria:

## RELEVANT DESIGN CRITERIA

| BUILDING STANDARDS                                                                                                                                                                             | Applicable | Design Criteria                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BCA Vol 1 2022</b> Part J7                                                                                                                                                                  | Y          | Calculated illumination power density<br><br>Interior artificial lighting and power control<br><br>Interior decorative and display lighting<br><br>Boiling water and chilled water storage units |
| <b>AS 1670</b> Fire detection, warning, control, and intercom systems — Systems design, installation and commissioning<br>Part 1 2015 Fire                                                     | N          |                                                                                                                                                                                                  |
| <b>AS 1670</b> Fire detection, warning, control and intercom systems — Systems design, installation and commissioning<br>Part 3 2004 Fire alarm monitoring                                     | N          |                                                                                                                                                                                                  |
| <b>AS 1670</b> Fire detection, warning, control and intercom systems — Systems design, installation and commissioning<br>Part 4 2015 Sound systems and intercom systems for emergency purposes | N          |                                                                                                                                                                                                  |
| <b>AS/NZS 1680</b> Interior lighting Part 0 2009 Safe Movement                                                                                                                                 | Y          | Interior artificial lighting                                                                                                                                                                     |
| <b>AS 2293</b> Emergency escape lighting and exit signs for buildings Part 1 2005 System design, installation and operation                                                                    | Y          | Emergency and Exit lighting                                                                                                                                                                      |
| <b>AS 3000</b> Wiring Rules                                                                                                                                                                    | Y          | Electrical Installation.                                                                                                                                                                         |
| <b>AS/NZS 3013</b> Electrical installations — Classification of the fire and mechanical performance of wiring system elements                                                                  | Y          |                                                                                                                                                                                                  |
| <b>AS 3786</b> Smoke alarms                                                                                                                                                                    | Y          | Via Security system                                                                                                                                                                              |
| <b>AS 3786</b> Smoke alarms using scattered light, transmitted light or ionization                                                                                                             | Y          | Via Security system                                                                                                                                                                              |
| Other                                                                                                                                                                                          |            |                                                                                                                                                                                                  |

## ALTERNATIVE SOLUTION

|                                       |   |          |
|---------------------------------------|---|----------|
| Has an Alternative Solution been used | N | Details: |
|---------------------------------------|---|----------|

## ELECTRICAL SERVICES DESIGN COMPLIANCE

| Drawing No | Revision | Title                         |
|------------|----------|-------------------------------|
| E01        | 0        | Electrical – Site Pt. 1       |
| E02        | 0        | Electrical – Site Pt. 2       |
| E03        | 0        | Electrical – Lighting & Power |
| E04        | 0        | Electrical – SLD & Details    |
|            |          |                               |
|            |          |                               |
|            |          |                               |
|            |          |                               |
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|            |          |                               |
|            |          |                               |

### COMMENTS / EXCLUSIONS (Exclusions to this Certificate must be clearly identified).

|                                                                     |
|---------------------------------------------------------------------|
| The following items are excluded and shall be certified separately: |
| Comments:                                                           |

### CERTIFICATION BY ELECTRICAL DESIGNER/CONSULTANT

|                                                                                                                                                                                                                              |                                                                                                       |                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------|
| I certify that reasonable care has been taken to ensure that the electrical engineering aspects of the works as described above have been constructed in accordance with the requirements of the Building Code of Australia. |                                                                                                       |                                      |
| Name:<br><br>Heiner Schmidt                                                                                                                                                                                                  | Signature<br><br> | Date:<br><br>Friday, 21 August, 2026 |

**2022 National Construction Code (NCC) Energy Efficiency  
Conformance Review**

**Part J6 - (Air-Conditioning and Ventilation Systems)**

Project Name: Shire of Chapman Valley  
Proposed new changerooms at Nabawa oval

Address: Chapman Valley Road, Nabawa WA 6532  
Client: Shire of Chapman Valley

Address: C/O Teakle & Lalor G1/219 Foreshore Drive Geraldton WA 6530

Party responsible for NCC compliance: To be advised

Builder: To be advised

**Refer to notes at the end of this review document.**

**This document is not valid unless the declaration of conformity is signed by the party responsible for the construction code compliance of the completed works.**

Indicate Y (yes) N (no) or N/A (Not applicable in each box)

### J6D3 AIR-CONDITIONING SYSTEM CONTROL

#### Air-conditioning Systems:

|                                                                                                            |     |
|------------------------------------------------------------------------------------------------------------|-----|
| Capable of being deactivated when the building or part of a building served by that system is not occupied | N/A |
|------------------------------------------------------------------------------------------------------------|-----|

When serving more than one zone or area with different heating or cooling needs:

|                                                                                                                                                                                                                                              |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Thermostatically controls the temperature of each zone or area                                                                                                                                                                               | N/A |
| Not controls the temperature by mixing actively heated air and actively cooled air                                                                                                                                                           | N/A |
| Limits reheating to not more than a 7.5K rise for fixed supply air rate                                                                                                                                                                      | N/A |
| Limits reheating in variable supply air rate systems to not more than a 7.5K rise in temperature at the nominal supply air rate but increased or decreased at the same rate that the supply air rate is respectively decreased or increased. | N/A |

|                                                                                                                                                                                                                                                                                                                                                                       |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Except in climate zone 1 areas with dehumidification control, is fitted with an outdoor air economy cycle if the total air flow rate of any airside component of the air conditioning system is greater than or equal to the figures in Table J6D3                                                                                                                    | N/A |
| Where there is more than one water heater, chiller, or coil, is capable of stopping the flow of water to those not operational                                                                                                                                                                                                                                        | N/A |
| With an airflow of more than 1000 L/s, is fitted with a variable speed fan when its supply air quantity is capable of being varied                                                                                                                                                                                                                                    | N/A |
| If serving a sole-occupancy unit in a Class 3 building, does not operate when any external door of the sole occupancy unit that opens to a balcony or the like, is open for more than one minute                                                                                                                                                                      | N/A |
| Has a control dead band of not less than 2°C, except where a smaller range is required for specialised applications                                                                                                                                                                                                                                                   | N/A |
| Provided with balancing dampers and balancing valves that ensure the maximum design air or fluid flow is achieved but not exceeded by more than 15% above design at each component or group of components operating under a common control in a system containing multiple components, as required to meet the needs of the system at its maximum operating condition | N/A |
| Each independently operating space of more than 1000 m <sup>2</sup> and every separate floor of the building has provision to terminate airflow independently of the remainder of the system sufficient to allow for different operating times                                                                                                                        | N/A |
| Has automatic variable temperature operation of heated water and chilled water circuits                                                                                                                                                                                                                                                                               | N/A |

|                                                                                                                                                                                                                                                                                                                   |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| When deactivated, closes any motorised outdoor air or return air damper that is not otherwise being actively controlled                                                                                                                                                                                           | N/A |
| When two or more air-conditioning systems serve the same space, they use control sequences that prevent the systems from operating in opposing heating and cooling modes.                                                                                                                                         | N/A |
| Time switches are provided for air conditioning systems more than 2kW <sub>r</sub> and heaters of more than 1kW used for air conditioning                                                                                                                                                                         | N/A |
| Time switch is capable of switching electric power on and off at variable pre-programmed times and on variable pre-programmed days. Except for only one sole occupancy unit in a Class 2, 3 or 9c building or a Class 4 part of a building or a space where air conditioning is needed for 24 hour continuous use | N/A |

#### **J6D4 Mechanical ventilation system control**

A mechanical ventilation system, including one that is part of an air-conditioning system, except where the mechanical system serves only one sole-occupancy unit in a Class 2 building or serves only a Class 4 part of a building, is:

|                                                                                                              |   |
|--------------------------------------------------------------------------------------------------------------|---|
| Capable of being deactivated when the building or part of the building served by that system is not occupied | Y |
|--------------------------------------------------------------------------------------------------------------|---|

And when serving a conditioned space, except in periods when evaporative cooling is being used where specified in Table J6D4 have

|                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------|-----|
| An energy reclaiming system that preconditions outdoor air at a minimum sensible heat transfer effectiveness of 60% | N/A |
|---------------------------------------------------------------------------------------------------------------------|-----|

Or

|                                                                                           |     |
|-------------------------------------------------------------------------------------------|-----|
| Demand control ventilation in accordance with AS 1668.2 if appropriate to the application | N/A |
|-------------------------------------------------------------------------------------------|-----|

And not exceed the minimum outdoor air quantity required by Part F6 by more than 20%, except where:

|                                                                   |     |
|-------------------------------------------------------------------|-----|
| Additional unconditioned outdoor air is supplied for free cooling | N/A |
|-------------------------------------------------------------------|-----|

Or

|                                                                                           |     |
|-------------------------------------------------------------------------------------------|-----|
| Demand control ventilation in accordance with AS 1668.2 if appropriate to the application | N/A |
|-------------------------------------------------------------------------------------------|-----|

And

|                                                                                                |     |
|------------------------------------------------------------------------------------------------|-----|
| Additional mechanical ventilation is needed to balance the required exhaust or process exhaust | N/A |
|------------------------------------------------------------------------------------------------|-----|

Or

|                                                               |     |
|---------------------------------------------------------------|-----|
| An energy reclaiming system preconditions all the outdoor air | N/A |
|---------------------------------------------------------------|-----|

And

|                                                                                                                                      |     |
|--------------------------------------------------------------------------------------------------------------------------------------|-----|
| For an airflow of more than 1000 L/s, have a variable speed fan unless the downstream airflow is required by Part F6 to be constant. | N/A |
|--------------------------------------------------------------------------------------------------------------------------------------|-----|

## Exhaust systems

|                                                                                                                                                                                                                    |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Exhaust systems with an air flow rate of more than 1000 L/s are capable of stopping the motor when the system is not needed, except for an exhaust system in a sole-occupancy unit in a Class 2, 3 or 9c building. | N/A |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|

Carpark exhaust systems — Carpark exhaust systems have a control system in accordance with—

|                                |     |
|--------------------------------|-----|
| Clause 4.11.2 of AS 1668.2; or | N/A |
| Clause 4.11.3 of AS 1668.2     | N/A |

|                                                                                                                                         |     |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----|
| A time switch is provided to mechanical ventilation systems with an air flow rate of more than 1000 L/s.                                | N/A |
| The time switch is capable of switching electric power on and off at variable pre-programmed times and on variable pre-programmed days. | N/A |

Time switch requirements do not apply to one sole-occupancy unit in a Class 2, 3 or 9c building; or a Class 4 part of a building or a building where mechanical ventilation is needed for 24-hour occupancy.

## J6D5 Fans and duct systems

### (1) Fans, ductwork and duct components that form part of an air-conditioning system or mechanical ventilation system are—

|                                                                                                                                                                          |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| (a) Separately compliant with (2), (3), (4) and (5); or                                                                                                                  | Y |
| (b) Achieve a fan motor input power per unit of flowrate lower than the fan motor input power per unit of flowrate achieved when applying (2), (3), (4) and (5) together | Y |

### (2) Fans:

|                                                                                                                                                                                                                                          |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| (a) Fans in systems that have a static pressure of not more than 200 Pa have an efficiency at the full load operating point not less than the efficiency calculated with the following formula: $\eta_{\min} = 0.13 \times \ln(p) - 0.3$ | Y |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|

(b) In the formula at (a)—

- (i)  $\eta_{\min}$  = the minimum required system static efficiency for installation type A or C or the minimum required system total efficiency installation type B or D; and
- (ii)  $p$  = the static pressure of the system (Pa); and
- (iii)  $\ln$  = natural logarithm.

|                                                                                                                                                                                                                                                  |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| (c) Fans in systems that have a static pressure above 200 Pa have an efficiency at the full load operating point not less than the efficiency calculated with the following formula: $\eta_{\min} = 0.85 \times (a \times \ln(P) - B + N) / 100$ | N/A |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|

(d) In the formula at (c)—

- (i)  $\eta_{\min}$  = the minimum required system static efficiency for installation type A or C or the minimum required system total efficiency installation type B or D; and
- (ii) P = the motor input power of the fan (kW); and
- (iii) N = the minimum performance grade obtained from Table J6D5a; and
- (iv) a = regression coefficient a, obtained from Table J6D5b; and
- (v) b = regression coefficient b, obtained from Table J6D5c; and
- (vi)  $\ln$  = natural logarithm.

(e) The requirements of (a), (b), (c) and (d) do not apply to fans that need to be explosion proof.

### (3) Ductwork:

|                                                                                                                                                                                                                                                                                                                                                        |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| (a) The pressure drop in the index run across all straight sections of rigid ductwork and all sections of flexible ductwork does not exceed 1 Pa/m when averaged over the entire length of straight rigid duct and flexible duct.<br>(The pressure drop of flexible ductwork sections may be calculated as if the flexible ductwork is laid straight). | Y   |
| (b) Flexible ductwork does not account for more than 6 m in length in any duct run.                                                                                                                                                                                                                                                                    | Y   |
| (c) The upstream connection to ductwork bends, elbows and tees in the index run have an equivalent diameter to the connected duct.                                                                                                                                                                                                                     | Y   |
| (d) Turning vanes are included in all rigid ductwork elbows of 90° or more acute than 90° in the index run except where –<br>(i) the inclusion of turning vanes presents a fouling risk; or<br>(ii) a long radius bend in accordance with AS 4254.2 is used.                                                                                           | N/A |

### (4) Ductwork components in the index run:

|                                                                                                                                                                                                                                 |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| (a) The pressure drop across a coil does not exceed the value specified in Table J6D5d.                                                                                                                                         | N/A |
| (b) A high efficiency particulate arrestance (HEPA) air filter does not exceed the higher of—<br>(i) a pressure drop of 200 Pa when clean; or<br>(ii) the filter design pressure drop when clean at an air velocity of 1.5 m/s. | N/A |

|                                                                                                                                                                                                                                                               |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| (c) Any other air filter does not exceed—<br>(i) the pressure drop specified in Table J6D5e when clean; or<br>(ii) the filter design pressure drop when clean at an air velocity of 2.5 m/s.                                                                  | N/A |
| (d) The pressure drop across intake louvres does not exceed the higher of—<br>(i) for single stage louvres, 30 Pa; and<br>(ii) for two stage louvres, 60 Pa; and<br>(iii) for acoustic louvres, 50 Pa; and<br>(iv) for other non-weatherproof louvres, 30 Pa. | Y   |
| (e) The pressure drop across a variable air volume box, with the damper in the fully open position, does not exceed—<br>(i) for units with electric reheat, 100 Pa; and<br>(ii) for other units, 25 Pa not including coil pressure losses.                    | N/A |
| (f) Rooftop cowls do not exceed a pressure drop of 30 Pa.                                                                                                                                                                                                     | N/A |
| (g) Attenuators does not exceed a pressure drop of 40 Pa.                                                                                                                                                                                                     | N/A |
| (h) Fire dampers do not exceed a pressure drop of 15 Pa when open.                                                                                                                                                                                            | N/A |
| (i) Balancing and control dampers in the index run do not exceed a pressure drop of 25 Pa when in the fully open position.                                                                                                                                    | Y   |
| (j) Supply air diffusers and grilles do not exceed a pressure drop of 40 Pa.                                                                                                                                                                                  | Y   |
| (k) Exhaust grilles do not exceed a pressure drop of 30 Pa.                                                                                                                                                                                                   | Y   |
| (l) Transfer ducts do not exceed a pressure drop of 12 Pa.                                                                                                                                                                                                    | Y   |
| (m) Door grilles do not exceed a pressure drop of 12 Pa.                                                                                                                                                                                                      | Y   |
| (n) Active chilled beams do not exceed a pressure drop of 150 Pa.                                                                                                                                                                                             | N/A |

**(5) The requirements of (1), (2), (3) and (4) do not apply to—**

- (a) fans in un-ducted air-conditioning systems with a supply air capacity of less than 1000 L/s; and
- (b) smoke spill fans, except where also used for air-conditioning or ventilation; and
- (c) the power for process-related components; and
- (d) kitchen exhaust systems.

**J6D6 Ductwork insulation**

|                                                                                                                                                                                         |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| (1) Ductwork and fittings in an air-conditioning system are provided with insulation<br>(a) complying with AS/NZS 4859.1; and (b) having an insulation R-Value greater than or equal to |     |
| (i) for flexible ductwork, 1.0; or (ii) for cushion boxes, that of the connecting ductwork; or (iii) that specified in Table J6D6.                                                      | N/A |

## (2) Insulation

|                                                                                                                                                           |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Protected against the effects of weather and sunlight                                                                                                     | N/A |
| Abuts adjoining insulation to form a continuous barrier                                                                                                   | N/A |
| Maintains its position and thickness, other than at flanges and supports                                                                                  | N/A |
| When conveying cooled air is protected by a vapour barrier on the outside of the insulation                                                               | N/A |
| Where the vapour barrier is a membrane, be installed so that adjoining sheets of the membrane overlap by at least 50 mm; and are bonded or taped together | N/A |

The requirements of the above do not apply to—

- (a) ductwork and fittings located within the only or last room served by the system; or
  - (b) fittings that form part of the interface with the conditioned space; or
  - (c) return air ductwork in, or passing through, a conditioned space; or
  - (d) ductwork for outdoor air and exhaust air associated with an air-conditioning system; or
  - (e) the floor of an in-situ air-handling unit; or
  - (f) packaged air conditioners, split systems, and variable refrigerant flow air-conditioning equipment complying with MEPS; or
  - (g) flexible fan connections.
- (4) For the purposes of (1), (2) and (3), fittings—
- (a) include non-active components of a ductwork system such as cushion boxes; and
  - (b) exclude active components such as air-handling unit components.

|                                                                                                                                                                                                                                                                                              |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Ductwork in an air-conditioning system with a capacity of 3000 L/s or greater, not located within the only or last room served by the system, are sealed against air loss in accordance with the duct sealing requirements of AS 4254.1 and AS 4254.2 for the static pressure in the system. | N/A |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|

## J6D8 Pump systems

Pumps and pipework that form part of an air-conditioning system:

|                                                                                                                                                                                                                                                                                            |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| (a) separately comply with (2), (3) and (4); or<br>(b) achieve a pump motor power per unit of flowrate lower than the pump motor power per unit of flowrate achieved when applying (2), (3) and (4) together.                                                                              | N/A |
| (2) Circulator pumps — A glandless impeller pump, with a rated hydraulic power output of less than 2.5 kW and that is used in closed loop systems has an energy efficiency index (EEI) not more than 0.27 calculated in accordance with European Union Commission Regulation No. 622/2012. | N/A |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| (3) Other pumps — Pumps that are in accordance with Articles 1 and 2 of European Union Commission Regulation No. 547/2012 have a minimum efficiency index (MEI) of 0.4 or more when calculated in accordance with European Union Commission Regulation No. 547/2012.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A |
| (4) Pipework — Straight segments of pipework along the index run, forming part of an air-conditioning system—<br>(a) in pipework systems that do not have branches and have the same flow rate throughout the entire pipe network, achieve an average pressure drop of not more than—<br>(i) for constant speed systems, the values nominated in Table J6D8a; or<br>(ii) for variable speed systems, the values nominated in Table J6D8b; or<br>(b) in any other pipework system, achieve an average pressure drop of not more than—<br>(i) for constant speed systems, the values nominated in Table J6D8c; or<br>(ii) for variable speed systems, the values nominated in Table J6D8d.<br>(5) The requirements of (4) do not apply—<br>(a) to valves and fittings; or<br>(b) where the smallest pipe size compliant with (4) results in a velocity of 0.7 m/s or less at design flow.<br>Where exposed to direct sunlight 3.0 3.0<br>All other locations 2.0 3.0 | N/A |

### J6D9 Pipework insulation

|                                                                                                                                                                                                                                                                                                                                                                                                                 |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| (1) Piping, vessels, heat exchangers and tanks containing heating or cooling fluid, where the fluid is held at a heated or cooled temperature, that are part of an air-conditioning system, other than in appliances covered by MEPS, are provided with insulation complying with AS/NZS 4859.1; and for piping of heating and cooling fluids, having an insulation R-Value in accordance with Table J6D9a; and | N/A |
| (c) for vessels, heat exchangers or tanks, having an insulation R-Value in accordance with Table J6D9b; and                                                                                                                                                                                                                                                                                                     | N/A |
| (d) for refill or pressure relief piping, having an insulation R-Value equal to the required insulation R-Value of the connected pipe, vessel or tank within 500 mm of the connection.                                                                                                                                                                                                                          | N/A |
| (2) Insulation:                                                                                                                                                                                                                                                                                                                                                                                                 | N/A |
| (a) protected against the effects of weather and sunlight; and                                                                                                                                                                                                                                                                                                                                                  | N/A |
| (b) is able to withstand the temperatures within the piping, vessel, heat exchanger or tank.                                                                                                                                                                                                                                                                                                                    | N/A |
| (3) Insulation provided to piping, vessels, heat exchangers or tanks containing cooling fluid is protected by a vapour barrier on the outside of the insulation.                                                                                                                                                                                                                                                | N/A |

- (4) The requirements of (1) and (2) do not apply to piping, vessels or heat exchangers—
- (a) located within the only or last room served by the system and downstream of the control device for the regulation of heating or cooling service to that room; or
  - (b) encased within a concrete slab or panel which is part of a heating or cooling system; or
  - (c) supplied as an integral part of a chiller, boiler or unitary air-conditioner complying with the requirements of J6D10, J6D11 and J6D12; or
  - (d) inside an air-handling unit, fan-coil unit, or the like.
- (5) For the purposes of (1), (2), (3) and (4)—
- (a) heating fluids include refrigerant, heated water, steam, and condensate; and
  - (b) cooling fluids include refrigerant, chilled water, brines, and glycol mixtures, but do not include condenser cooling water.

### **J6D10 Space heating**

|                                                                                                                                                                                                                                                                                                                                       |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| (1) A heater used for air-conditioning or as part of an air-conditioning system is either (a) a solar heater; or (b) a gas heater; or (c) a heat pump heater; or (d) a heater using reclaimed heat from another process such as reject heat from a refrigeration plant; or                                                            | N/A |
| (3) A fixed heating or cooling appliance that moderates the temperature of an outdoor space is configured to automatically shut down when there are no occupants in the space served; or (b) a period of one hour has elapsed since the last activation of the heater; or<br>(c) the space served has reached the design temperature. | N/A |
| (4) A gas water heater, that is used as part of an air-conditioning system: —<br>(a) if rated to consume 500 MJ/hour of gas or less, achieve a minimum gross thermal efficiency of 86%; or<br>(b) if rated to consume more than 500 MJ/hour of gas, achieve a minimum gross thermal efficiency of 90%.                                | N/A |

### **J6D11 Refrigerant chillers**

|                                                                                                                                                                                                                                                         |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| An air-conditioning system refrigerant chiller complies with MEPS and the full load operation energy efficiency ratio and integrated part load energy efficiency ratio in Table J6D11a or Table J6D11b when determined in accordance with AHRI 551/591. | N/A |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|

## J6D12 Unitary air-conditioning equipment

|                                                                                                                                                                                                                                                                   |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Unitary air-conditioning equipment including packaged air-conditioners, split systems, and variable refrigerant flow systems complies with MEPS and for a capacity greater than or equal to 65 kW <sub>r</sub> —                                                  | N/A |
| (a) where water cooled, has a minimum energy efficiency ratio of 4.0 W <sub>r</sub> /W <sub>input</sub> power for cooling when tested in accordance with AS/NZS 3823.1.2 at test condition T1, where input power includes both compressor and fan input power; or | N/A |
| (b) where air cooled, have a minimum energy efficiency ratio of 2.9 W <sub>r</sub> /W <sub>input</sub> power for cooling when tested in accordance with AS/NZS 3823.1.2 at test condition T1, where input power includes both compressor and fan input power.     | N/A |

## J6D13 Heat rejection equipment

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| (1) The motor rated power of a fan in a cooling tower, closed circuit cooler or evaporative condenser does not exceed the allowances in Table J6D13.                                                                                                                                                                                                                                                                                                                                        | N/A |
| (2) The fan in an air-cooled condenser has a motor rated power of not more than 42 W for each kW of heat rejected from the refrigerant, when determined in accordance with AHRI 460 except for—<br>(a) a refrigerant chiller in an air-conditioning system that complies with the energy efficiency ratios in J6D11; or<br>(b) packaged air-conditioners, split systems, and variable refrigerant flow air-conditioning equipment that complies with the energy efficiency ratios in J6D12. | N/A |
| A closed circuit, forced draft cooling tower is not be used.                                                                                                                                                                                                                                                                                                                                                                                                                                | N/A |

### **Certification by Mechanical Services Designer**

**Name of project:**

Project Name: Shire of Chapman Valley  
Proposed new changerooms at Nabawa oval

Address: Chapman Valley Rd, Nabawa WA 6532

Mechanical Services systems on this project are designed in accordance with the details provided on this Section J6 – conformance review and the energy efficiency requirements of the 2022 NCC Section J6 ‘Air -conditioning and ventilation’.

**Mechanical Designer Details:**

Kim Cramer MAIRAH, Grad Cert Air Conditioning (Code Compliance)

Reliable Energy Solutions

PO Box 171

Como WA 6962

Signature:

Date: 6 August 2026

**Note:**

**This document is not valid unless the declaration of conformity is signed by the party responsible for construction code compliance of the completed works.**

**Declaration of conformity signed by the party responsible for the construction code compliance of the works.**

I declare that the Mechanical Services (Air-conditioning and ventilation) installation for the project reviewed in this document will be supplied, installed, tested, and commissioned in accordance with the information attached to, and provided on this NCC 2022 Section J part J6 review.

**Name of project:**

Project Name: Shire of Chapman Valley  
Proposed new changerooms at Nabawa oval

Address: Chapman Valley Rd, Nabawa WA 6532

Trading name of party responsible for construction compliance for the works:

Company name (if different to trading name):

Address:

Phone No:

Name of person Authorised to sign on behalf of the responsible party:

Signature:

Date:

## NCC PART J7. DEEMED TO SATISFY ENERGY EFFICIENCY DECLARATION - NCC 2022

|                                          |                                    |
|------------------------------------------|------------------------------------|
| <b>Building: Nabawa Community Centre</b> | <b>Class of building: 9b</b>       |
| <b>Lot: 3320</b>                         | <b>Street: Chapman Valley Road</b> |
| <b>Suburb: Nabawa</b>                    | <b>Post Code: 6532</b>             |
| <b>Owner: Shire of Chapman Valley</b>    |                                    |

| <b>Part J7D3 ARTIFICIAL LIGHTING AND POWER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <p><b>(1)</b> In a sole-occupancy unit of a Class 2, or Class 4 part of a building—</p> <p>(a) the lamp power density or illumination power density of artificial lighting must not exceed the allowance of —</p> <p>(i) <math>5 \text{ W/m}^2</math> within a sole-occupancy unit; and</p> <p>(ii) <math>4 \text{ W/m}^2</math> on a verandah, balcony or the like attached to a sole-occupancy unit; and</p> <p>(b) the illumination power density allowance in (a) may be increased by dividing it by the illumination power density adjustment factor for a control device in Table J7D3b as applicable; and</p> <p>(c) when designing the lamp power density or illumination power density, the power of the proposed installation must be used rather than nominal allowances for exposed batten holders or luminaires; and</p> <p>(d) halogen lamps must be separately switched from fluorescent lamps.</p>                        | <p><input type="checkbox"/> SATISFIES</p> <p><input checked="" type="checkbox"/> N/A</p> |
| <p><b>(2)</b> In a building other than a sole-occupancy unit of a Class 2 building or a Class 4 part of a building—</p> <p>(a) for artificial lighting, the aggregate design illumination power load must <b>not</b> exceed the sum of the allowances obtained by multiplying the area of each space by the maximum illumination power density in Table J7D3a; and</p> <p>(b) the aggregate design illumination power load in (a) is the sum of the design illumination power loads in each of the spaces served; and</p> <p>(c) where there are multiple lighting systems serving the same space, the design illumination power load for (b) is—</p> <p>(i) the total illumination power load of all systems; or</p> <p>(ii) where a control system permits only one system to operate at a time— is calculated according to the formula as listed in clause</p> <p><b>- Refer to calculations confirming compliance (attached).</b></p> | <p><input checked="" type="checkbox"/> SATISFIES</p> <p><input type="checkbox"/> N/A</p> |
| <p><b>(3)</b> The requirements of (1) and (2) do not apply to the following:</p> <p>(a) Emergency lighting provided in accordance with Part E4.</p> <p>(b) Signage, display lighting within cabinets and display cases that are fixed in place.</p> <p>(c) Lighting for accommodation within the residential part of a detention centre.</p> <p>(d) A heater where the heater also emits light, such as in bathrooms.</p> <p>(e) Lighting of a specialist process nature such as in a surgical operation theatre, fume cupboard or clean workstation.</p> <p>(f) Lighting of performances such as theatrical or sporting.</p> <p>(g) Lighting for the permanent display and preservation of works of art or objects in a museum or gallery other than for retail sale, purchase or auction.</p> <p>(h) Lighting installed solely to provide photosynthetically active radiation for indoor plant growth on green walls and the like.</p>  | <p><input checked="" type="checkbox"/> SATISFIES</p> <p><input type="checkbox"/> N/A</p> |
| <p><b>(4)</b> For the purposes of Table J7D3b, the following control devices must comply with Specification 40:</p> <p>(a) Lighting timers.</p> <p>(b) Motion detectors.</p> <p>(c) Daylight sensors and dynamic lighting control devices.</p> <p><b>- Refer to calculations confirming compliance (attached).</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p><input checked="" type="checkbox"/> SATISFIES</p> <p><input type="checkbox"/> N/A</p> |

| <b>Part J7D4 INTERIOR ARTIFICIAL LIGHTING AND POWER CONTROL.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <b>(1)</b> All artificial lighting of rooms or spaces are individually operated by—<br>(a) a switch; or<br>(b) other control device; or<br>(c) a combination of (a) and (b).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <input checked="" type="checkbox"/> <b>SATISFIES</b><br><input type="checkbox"/> <b>N/A</b> |
| <b>(2)</b> An occupant activated device, such as a room security device, a motion detector in accordance with Specification 40, or the like, must be provided in the sole-occupancy unit of a Class 3 building, other than where providing accommodation for people with a disability or the aged, to cut power to the artificial lighting, air-conditioner, local exhaust fans and bathroom heater when the sole-occupancy unit is unoccupied.                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> <b>SATISFIES</b><br><input checked="" type="checkbox"/> <b>N/A</b> |
| <b>(3)</b> An artificial lighting switch or other control device in (1) must—<br>(a) if an artificial lighting switch, be located in a visible and easily accessed position -<br>(i) in the room or space being switched; or<br>(ii) in an adjacent room or space from where 90% of the lighting being switched is visible; and<br>(b) for other than a single functional space such as an auditorium, theatre, swimming pool, sporting stadium or warehouse—<br>(i) if in a Class 5 building or a Class 8 laboratory, not operate lighting for an area of more than 250 m <sup>2</sup> : or<br>(ii) if in a Class 3, 6, 7, 8 (other than a laboratory) or 9 building, not operate lighting for area of more than—<br>(A) 250 m <sup>2</sup> for a space of not more than 2000 m <sup>2</sup> ; or<br>(B) 1000 m <sup>2</sup> for a space of more than 2000 m <sup>2</sup> . | <input checked="" type="checkbox"/> <b>SATISFIES</b><br><input type="checkbox"/> <b>N/A</b> |
| <b>(4)</b> 95% of the light fittings in a building or storey of a building, other than a Class 2 or 3 building or a Class 4 part of a building, of more than 250 m <sup>2</sup> must be controlled by—<br>(a) a time switch in accordance with Specification 40; or<br>(b) an occupant sensing device such as—<br>(i) a security key card reader that registers a person entering and leaving the building; or<br>(ii) a motion detector in accordance with Specification 40.                                                                                                                                                                                                                                                                                                                                                                                                | <input checked="" type="checkbox"/> <b>SATISFIES</b><br><input type="checkbox"/> <b>N/A</b> |
| <b>(5)</b> In a Class 5, 6 or 8 building of more than 250 m <sup>2</sup> , artificial lighting in a natural lighting zone adjacent to windows must be separately controlled from artificial lighting not in a natural lighting zone in the same storey except where—<br>(a) the room containing the natural lighting zone is less than 20 m <sup>2</sup> ; or<br>(b) the room's natural lighting zone contains less than 4 luminaires; or<br>(c) 70% or more of the luminaires in the room are in the natural lighting zone.                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> <b>SATISFIES</b><br><input checked="" type="checkbox"/> <b>N/A</b> |
| <b>(6)</b> Artificial lighting in a <i>fire-isolated stairway</i> , <i>fire-isolated passageway</i> or <i>fire-isolated ramp</i> , must be controlled by a motion detector in accordance with Specification 40.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input type="checkbox"/> <b>SATISFIES</b><br><input checked="" type="checkbox"/> <b>N/A</b> |
| <b>(7)</b> Artificial lighting in a foyer, corridor and other circulation spaces—<br>(a) of more than 250 W within a single zone; and<br>(b) adjacent to windows, must be controlled by a daylight sensor and dynamic lighting control device in accordance with Specification 40.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> <b>SATISFIES</b><br><input checked="" type="checkbox"/> <b>N/A</b> |
| <b>(8)</b> Artificial lighting for daytime travel in the first 19 m of travel in a carpark entry zone must be controlled by a daylight sensor in accordance with Specification 40.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <input type="checkbox"/> <b>SATISFIES</b><br><input checked="" type="checkbox"/> <b>N/A</b> |
| <b>(9)</b> The requirements of (1), (2), (3), (4), (5), (6), (7) and (8) do not apply to the following:<br>(a) Emergency lighting in accordance with Part E4.<br>(b) Where artificial lighting is needed for 24 hour occupancy such as for a manufacturing process, parts of a hospital, an airport control tower or within a detention centre.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <input checked="" type="checkbox"/> <b>SATISFIES</b><br><input type="checkbox"/> <b>N/A</b> |
| <b>(10)</b> The requirements of (4) do not apply to the following:<br>(a) Artificial lighting in a space where the sudden loss of artificial lighting would cause an unsafe situation such as—<br>(i) in a patient care area in a Class 9a building or in a Class 9c building; or<br>(ii) a plant room or lift motor room; or<br>(iii) a workshop where power tools are used.<br>(b) A heater where the heater also emits light, such as in bathrooms.                                                                                                                                                                                                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> <b>SATISFIES</b><br><input type="checkbox"/> <b>N/A</b> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| <b>PART J7D5 INTERIOR DECORATIVE AND DISPLAY LIGHTING.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                               |
| <b>Refer to Annexure A (attached).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                               |
| <b>(1)</b> Interior decorative and display lighting, such as for a foyer mural or art display, must be controlled—<br>(a) separately from other artificial lighting; and<br>(b) by a manual switch for each area other than when the operating times of the displays are the same in a number of areas such as in a museum, art gallery or the like, in which case they may be combined; and<br>(c) by a time switch in accordance with Specification 40 where the display lighting exceeds 1 kW.                                                                                                                                                                                              | <input type="checkbox"/> SATISFIES<br><input checked="" type="checkbox"/> N/A |
| <b>(2)</b> Window display lighting must be controlled separately from other display lighting.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> SATISFIES<br><input checked="" type="checkbox"/> N/A |
| <b>Part J7D6 EXTERIOR ARTIFICIAL LIGHTING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                               |
| <b>Refer to Annexure A (attached).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                               |
| <b>(1)</b> Exterior artificial lighting attached to or directed at the facade of a building, must—<br>(a) be controlled by—<br>(i) a daylight sensor; or<br>(ii) a time switch that is capable of switching on and off electric power to the system at variable pre-programmed times and on variable pre-programmed days; and<br>(b) when the total lighting load exceeds 100 W—<br>(i) use LED luminaires for 90% of the total lighting load; or<br>(ii) be controlled by a motion detector in accordance with Specification 40; or<br>(iii) when used for decorative purposes, such as façade lighting or signage lighting, have a separate time switch in accordance with Specification 40. | <input checked="" type="checkbox"/> SATISFIES<br><input type="checkbox"/> N/A |
| <b>(2)</b> The requirements of (1)(b) do not apply to the following;<br>(a) Emergency lighting in accordance with Part E4.<br>(b) Lighting around a detention center.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input checked="" type="checkbox"/> SATISFIES<br><input type="checkbox"/> N/A |
| <b>Part J7D7 BOILING WATER AND CHILLED WATER STORAGE UNITS.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                               |
| <b>Refer to Annexure A (attached).</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                               |
| Power supply to a boiling or chilled water storage unit will be controlled by a time switch in accordance with Specification 40.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/> SATISFIES<br><input checked="" type="checkbox"/> N/A |
| <b>Part J7D8 LIFTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                               |
| Lifts must—<br>(a) Be configured to ensure artificial lighting and ventilation in the car are turned off when it is unused for 15 minutes; and<br>(b) Achieve the idle and standby energy performance level in Table J7D8a; and<br>(c) Achieve—<br>(i) The energy efficiency class in Table J7D8b; or<br>(ii) If a dedicated goods lift, energy efficiency class D in accordance with ISO 25745-2.                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> SATISFIES<br><input checked="" type="checkbox"/> N/A |
| <b>PART J7D9 ESCALATORS AND MOVING WALKWAYS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                               |
| Escalators and moving walkways must have the ability to slow to between 0.2 m/s and 0.05 m/s when unused for more than 15 minutes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> SATISFIES<br><input checked="" type="checkbox"/> N/A |

## DESIGNER DECLARATION.

I declare that I am an appropriately qualified person and that the information of the Artificial Lighting and Power for the proposed building that is attached to and provided on this Declaration Sheet complies with the Deemed-to-Satisfy provisions of the NCC.

Name of person: Heiner Schmidt

Qualification: Engineer A/Dip

Company name: Peak Consultants

Address: 80a Marine Terrace, Geraldton, W.A. 6530

Phone No: 08 99652922

Signature:

Date: 20-Aug-26



## BUILDER DECLARATION.

I declare that the Artificial Lighting and Power for the proposed building will be installed in accordance with the information attached to and provided on this Declaration Sheet

Name of Builder or representative:

Company name:

Address:

Phone No:

Fax No:

Signature:

Date:

## ELECTRICAL CONTRACTORS DECLARATION.

I declare that the Artificial Lighting and Power for the proposed building will be installed in accordance with the information attached to and provided on this Declaration Sheet

Name of Electrical Contractor or representative: EC #

Company name:

Address:

Phone No:

Fax No:

Signature:

Date:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |                         |                     |                        |                    |                                                                 |                                                     |                         |                       |              |                       |              |                        |                         |                                        |                                    |                           |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------|---------------------|------------------------|--------------------|-----------------------------------------------------------------|-----------------------------------------------------|-------------------------|-----------------------|--------------|-----------------------|--------------|------------------------|-------------------------|----------------------------------------|------------------------------------|---------------------------|--|
| <div><div><div><div><div>COMMITTED TO INNOVATION</div><div>PEAK</div><div>CONSULTANTS PTY</div></div><div>ELECTRICAL, COMMUNICATIONS, BUILDING AND MECHANICAL SERVICES<br/>ENGINEERS, DESIGN CONSULTANTS &amp; PROJECT MANAGERS</div></div><div><div>p: 08 99652922<br/>e: sales@peakcpl.com.au<br/>a: 12 Post Office Lane Geraldton WA 6530<br/>w: www.peakcpl.com.au</div></div></div></div> |                 |                         |                     |                        |                    |                                                                 |                                                     |                         |                       |              |                       |              |                        |                         |                                        |                                    |                           |  |
| PROJECT:                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 | NABAWA OVAL CHANGEROOMS |                     |                        | BUILDING           |                                                                 | NABAWA COMMUNITY CENTRE<br>3320 CHAPMAN VALLEY ROAD |                         | DATE                  |              | 20/08/2026            |              | J7 - ROOM CALCULATIONS |                         |                                        |                                    |                           |  |
| CLIENT:                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                         |                     |                        |                    |                                                                 |                                                     |                         | CLASS                 |              | 9b                    |              |                        |                         |                                        |                                    |                           |  |
| PEAK PROJECT No:                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                         |                     |                        | P7166              |                                                                 |                                                     |                         |                       |              | COMPLIANCE            |              |                        |                         |                                        |                                    |                           |  |
| ROOM DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ROOM LENGTH (L) | ROOM WIDTH (W)          | CEILING HEIGHT (Hm) | HEIGHT OF WORK SURFACE | ROOM SIZE m²       | SPACE                                                           | ALLOWED W/m² (FROM J7D3a)                           | ROOM ASPECT RATIO (RAR) | METHOD OF ADJUSMENT 1 | ADJ FACTOR 1 | METHOD OF ADJUSMENT 2 | ADJ FACTOR 2 | ACTUAL USED W/m²       | ALLOWABLE ADJUSTED W/m² | ALLOWABLE ROOM WATTS (PRE ADJ)         | ALLOWABLE ROOM WATTS (ADJUSTED)    | ACTUAL WATTS USED         |  |
| AMMENITIES 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.20            | 7.90                    | 3.00                | 0.70                   | 25.28              | Toilet, locker room, staff room, rest room and the like         | 3.00                                                | 0.38                    | RAR                   | 0.63         | NIL                   | 1.00         | 3.16                   | 4.79                    | 75.84                                  | 121.05                             | 80                        |  |
| AMMENITIES 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.20            | 5.90                    | 3.00                | 0.70                   | 18.88              | Toilet, locker room, staff room, rest room and the like         | 3.00                                                | 0.35                    | RAR                   | 0.62         | NIL                   | 1.00         | 3.18                   | 4.88                    | 56.64                                  | 92.06                              | 60                        |  |
| AMMENITIES 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.20            | 5.90                    | 3.00                | 0.70                   | 18.88              | Toilet, locker room, staff room, rest room and the like         | 3.00                                                | 0.35                    | RAR                   | 0.62         | NIL                   | 1.00         | 3.18                   | 4.88                    | 56.64                                  | 92.06                              | 60                        |  |
| AMMENITIES 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.20            | 7.40                    | 3.00                | 0.70                   | 23.68              | Toilet, locker room, staff room, rest room and the like         | 3.00                                                | 0.37                    | RAR                   | 0.62         | NIL                   | 1.00         | 3.38                   | 4.81                    | 71.04                                  | 113.83                             | 80                        |  |
| AWAY CHANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7.90            | 7.40                    | 3.00                | 0.70                   | 58.46              | Toilet, locker room, staff room, rest room and the like         | 3.00                                                | 0.64                    | RAR                   | 0.71         | NIL                   | 1.00         | 2.74                   | 4.21                    | 175.38                                 | 246.23                             | 160                       |  |
| CHANGE 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7.90            | 5.90                    | 3.30                | 0.70                   | 46.61              | Toilet, locker room, staff room, rest room and the like         | 3.00                                                | 0.51                    | RAR                   | 0.67         | NIL                   | 1.00         | 3.43                   | 4.47                    | 139.83                                 | 208.52                             | 160                       |  |
| CHANGE 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7.90            | 5.90                    | 3.00                | 0.70                   | 46.61              | Toilet, locker room, staff room, rest room and the like         | 3.00                                                | 0.56                    | RAR                   | 0.69         | NIL                   | 1.00         | 3.43                   | 4.36                    | 139.83                                 | 203.35                             | 160                       |  |
| COMMENTATORS BOX                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4.08            | 2.50                    | 3.00                | 0.70                   | 10.20              | Office - artificially lit to an ambient level of 200 lx or more | 4.50                                                | 0.26                    | RAR                   | 0.59         | NIL                   | 1.00         | 3.73                   | 7.68                    | 45.90                                  | 78.31                              | 38                        |  |
| HALLWAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.25            | 5.50                    | 3.00                | 0.70                   | 6.88               | Corridors                                                       | 5.00                                                | 0.17                    | RAR                   | 0.56         | NIL                   | 1.00         | 5.82                   | 8.98                    | 34.38                                  | 61.76                              | 40                        |  |
| HOME CHANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7.90            | 14.90                   | 3.00                | 0.70                   | 117.71             | Toilet, locker room, staff room, rest room and the like         | 3.00                                                | 0.86                    | RAR                   | 0.79         | NIL                   | 1.00         | 2.72                   | 3.81                    | 353.13                                 | 448.81                             | 320                       |  |
| STORE                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.88            | 1.20                    | 3.00                | 0.70                   | 1.06               | Service area, cleaner's room and the like                       | 1.50                                                | 0.08                    | RAR                   | 0.53         | NIL                   | 1.00         | 18.94                  | 2.84                    | 1.58                                   | 3.00                               | 20                        |  |
| STORE ROOM                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.20            | 6.90                    | 3.30                | 0.70                   | 22.08              | Storage                                                         | 1.50                                                | 0.33                    | RAR                   | 0.61         | NIL                   | 1.00         | 1.81                   | 2.46                    | 33.12                                  | 54.26                              | 40                        |  |
| TIMEKEEPER                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3.70            | 2.50                    | 3.00                | 0.70                   | 9.25               | Office - artificially lit to an ambient level of 200 lx or more | 4.50                                                | 0.25                    | RAR                   | 0.58         | NIL                   | 1.00         | 4.11                   | 7.72                    | 41.63                                  | 71.41                              | 38                        |  |
| UMPIRES ROOM                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4.00            | 4.70                    | 3.00                | 0.00                   | 18.80              | Toilet, locker room, staff room, rest room and the like         | 3.00                                                | 0.36                    | RAR                   | 0.62         | NIL                   | 1.00         | 4.26                   | 4.84                    | 56.40                                  | 90.96                              | 80                        |  |
| UMPIRES SHOWER 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.00            | 2.60                    | 3.00                | 0.70                   | 5.20               | Toilet, locker room, staff room, rest room and the like         | 3.00                                                | 0.19                    | RAR                   | 0.56         | NIL                   | 1.00         | 3.85                   | 5.33                    | 15.60                                  | 27.72                              | 20                        |  |
| UMPIRES SHOWER 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.00            | 2.60                    | 3.00                | 0.70                   | 5.20               | Toilet, locker room, staff room, rest room and the like         | 3.00                                                | 0.19                    | RAR                   | 0.56         | NIL                   | 1.00         | 3.85                   | 5.33                    | 15.60                                  | 27.72                              | 20                        |  |
| UMPIRES SHOWER 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.00            | 2.60                    | 3.00                | 0.70                   | 5.20               | Toilet, locker room, staff room, rest room and the like         | 3.00                                                | 0.19                    | RAR                   | 0.56         | NIL                   | 1.00         | 3.85                   | 5.33                    | 15.60                                  | 27.72                              | 20                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |                         |                     |                        |                    |                                                                 |                                                     |                         |                       |              |                       |              |                        |                         | TOTAL ALLOWABLE ROOM WATTS W (PRE ADJ) | TOTAL ALLOWABLE ROOM WATTS W (ADJ) | TOTAL ACTUAL WATTS USED W |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |                         |                     |                        | TOTAL m²<br>439.97 |                                                                 |                                                     |                         |                       |              |                       |              |                        |                         | 1328.134                               | 1968.75                            | 1396.00                   |  |