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NL166964

16 March 2017

#### **Department of Education**

c/- Progroup Management Suite 1.03 32 Delhi Road MACQUARIE PARK NSW 2113

To whom it may concern,

Re: Demountables for Temporary O'Connell Street Primary School, 24 O'Connell Street Parramatta – Flooding Considerations and Risk Management

Northrop Consulting Engineers have been engaged by the Progroup Management to undertake the flooding assessment and proposed response methodology for the temporary demountable school facility at 24 O'Connell Street, Parramatta.

The subject site is inundated by flood waters in a range of events from the 5%AEP (1 in 20 year ARI) through to the PMF (Probable Maximum Flood).

This letter has been prepared for submission to the City of Parramatta to convey the existing flood behaviour and how flood risks have been managed by the development.

Contained herein is a description of the subject site, a summary of the expected flood behaviour, proposed development concept, flood controls outlined in the Parramatta Development Control Plan 2011, and the integration of flood risk minimisation measures into this development.

#### **Existing Site**

The proposal is located to the south of the redevelopment of the Old Kings School on Lot 6 (DP 1182647) on the existing oval, herein known as 'the site'. It is bounded on the south by the Parramatta River, O'Connell Street to the west, Marist Place to the east and the existing school to the north.

Levels on the site range from approximately 6.75m AHD in the south eastern corner to approximately 11m AHD adjacent to the existing school. Levels fall rapidly from the existing school to approximately 9m AHD before sloping gently to the south.

The site is largely grassed with a stand of trees along the western boundary, as well as dense vegetation lining the Parramatta River.

There are currently no habitable structures across the oval, the only structures being a fence running along the O'Connell Street boundary as well as defining the oval in the south western corner.

#### **Existing Flood Behaviour**

Flooding of the site occurs from the Parramatta River. The catchment of the Upper Parramatta River extends to Seven Hills and Prospect in the west and contains tributaries of the river Toongabbie Creek and Darling Mills Creek. In the vicinity of the site there are a number of hydraulic controls including the O'Connell Street bridge and the Marsden Street weir.

Peak flood levels have been adopted from the City of Parramatta Flood Map, reproduced overleaf.

Prepared	GB	16/03/2017
Reviewed	BC	16/03/2017
Admin	LB	16/03/2017



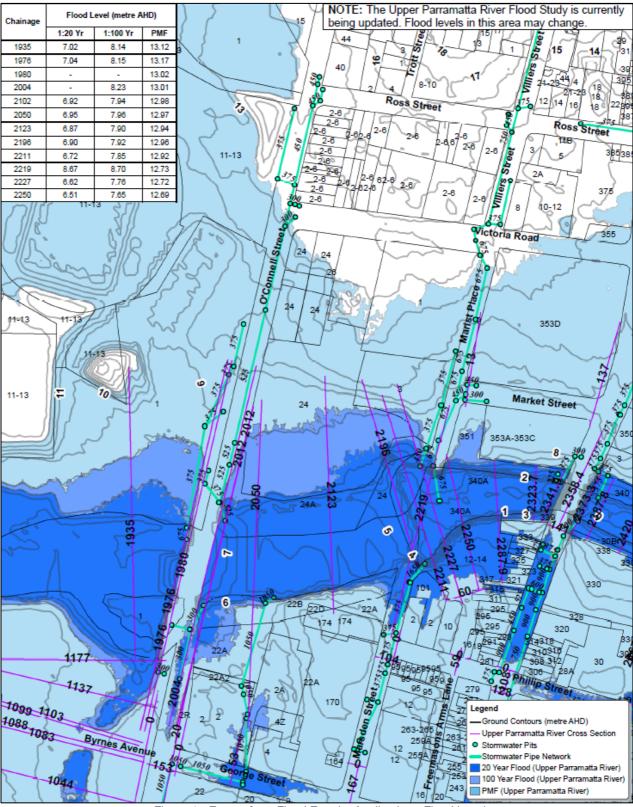


Figure 1 - Extract from Flood Enquiry Application - Flood Levels

This shows the 1%AEP levels onsite range from approximately 7.76m AHD to 7.96m AHD. Velocities obtained from further correspondence with Council indicate a maximum of approximately 0.6m/s.

The PMF is expected to be in the order of 12.96m AHD representing significant inundation on-site. Velocities were not available from Council for this event, however preliminary modelling indicates they would be in the order of 1.2m/s.



Water will enter the site from the south west as the Parramatta River rises and breaks its banks. Given the hydraulic control of the O'Connell Street bridge upstream, water is expected to flow to the north as it expands before flowing to the east and returning to the river in the vicinity of the Marsden Street weir.

Due to the depth and velocity depth product, the south eastern corner of the school is defined as a high hydraulic hazard area in the 1%AEP – resulting in a **High Flood Risk Precinct**. Due to depths under 800mm and velocity depth products less than 0.4m²/s, the rest of the 1%AEP is considered low hydraulic hazard and as such, **Medium Flood Risk Precinct**. The rest of the site, and immediately to the north is affected by the PMF and falls within the **Low Flood Risk Precinct**. It is noted however, in the PMF, due to depths and velocities the site is subjected to a high hydraulic hazard.

Time to peak levels, from beginning of rain to the peak water level is important in determining the flood warning and response measures that will be implemented. From personal correspondence with Peter Sirianni from the City of Parramatta, this is expected to be in the order of **nine hours** for events up to and including the 1%AEP event and between **two and a half** and **four hours** for the PMF. The draft Parramatta Floodplain Risk Management Plan prepared by Molino Stewart notes these times as **seven** and **five hours** respectively as reproduced below.

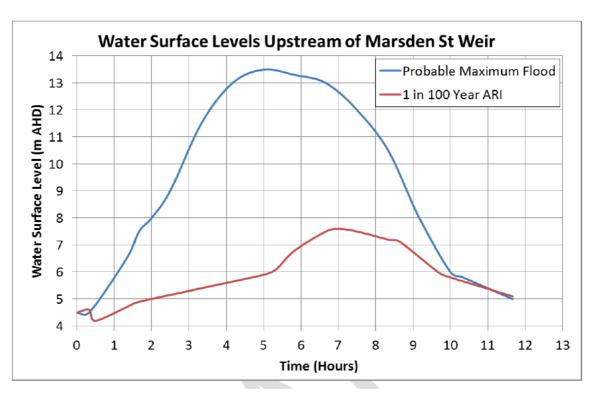


Figure 11 Water Surface Levels Upstream of Marsden St Weir

Figure 2 - Time to peak adjacent to subject site, from Draft Review of Parramatta Floodplain Risk Management Plans (Molino Stewart, 2016)

#### **Proposed Development Outline**

The DA seeks approval for:

- Ground preparation works (no excavation work below 100mm);
- Installation and use of demountable homebase units to facilitate the operation of a temporary school for 1000 students including:
  - 41 demountable units to accommodate homebase classrooms:
  - A demountable unit to accommodate a canteen:



- A demountable unit to accommodate a library;
- A demountable unit to accommodate accessible toilets/showers;
- 2 demountable units to accommodate an administration office;
- Lighting (attached to demountable units);
- Covered walkways between demountable units;
- Standard school signage
- A covered outdoor learning area (2,661.38m²) (COLA);
- Temporary security fence; and
- · Kiss and drop zone on Marist Place; and
- Student access and main entry via Marist Place; and
- · Construction vehicle access from O'Connell Street; and
- Several emergency and maintenance access gates along the O'Connell Street and Parramatta River frontages; and
- Full decommissioning of the temporary demountable school once the new O'Connell Street School is ready for occupation.

#### Flood Controls from Parramatta Development Control Plan 2011 and Council Consultation

Part 2.4.2.1 of the DCP provides a guide to what is considered acceptable development within the LGA and this was consulted in the first instance regarding development controls relating to flooding.

Consultation has also been undertaken with Council officers to present the development concept and understand submission requirements. As a result of this process, the development was modified to shift building locations away from the high flood hazard areas in the 1%AEP and further to the north and west.

A number of design principles are outlined within the DCP, which are summarised below without reproducing them in full;

- Development should not result in increased risk to human life;
- Economic and social costs should be reasonably managed by the property owner;
- Development should not adversely alter flood affectation on other properties;
- Effective warning time and reliable access should be available to the proposed development;
- An evacuation plan should be prepared for the development taking into consideration response procedures, warning systems and signage;
- Structures should be able to withstand flood forces.

The floodplain matrix was also examined to explore whether there were any "deemed to comply" approval pathways. This was ruled out due to the Sensitive Use of the proposed development (defined in this case as an educational institution). Notwithstanding this, controls were identified for a Commercial premises in a Medium Flood Risk Precinct and compared to the temporary school proposed. These included;



- Minimum floor level to be set above the 1%AEP plus freeboard. Minimum floor level is set at 9.15m AHD or approximately 1.15m above the 1%AEP;
- A restriction should be placed on the title to ensure where the floor level is raised 1.5m above the ground, enclosing the subfloor space will not occur. It is expected a restriction will be placed on the title to ensure the subfloor spaces are not enclosed with impermeable materials as well as a timeframe for decommissioning and rehabilitation to the current condition;
- All structures are to withstand the force of floodwater, debris and buoyancy up to the 1%AEP. All demountable structures have been designed to withstand the forces from the moving water in the PMF in accordance with Australian Building Codes Board 'Construction of Buildings in Flood Hazard Areas' document and the 'Reducing Vulnerability of Buildings to Flood Damage' document prepared for the Hawkesbury-Nepean Floodplain Management Steering Committee. Buildings will not become buoyant due to large concrete pad footing supporting the buildings as well as providing hold down. Temporary fencing and undercroft screening has been designed to be permeable allowing flow of water in the 1%AEP whilst failing for the debris impact loads described above thus minimising potential damming of water behind debris at these locations;
- The development should not cause adverse flood affection on other properties. As
  described earlier, the existing site has dense vegetation along the banks of the Parramatta
  River and fencing along O'Connell Street and the south western corner of the oval. These
  will act to trap debris before reaching the subject site whilst being permeable for floodwaters
  to inundate the oval.

The fences will be replaced by a single temporary fence with a larger aperture than that currently in place. Buildings will also have a permeable undercroft and channels formed in the pad footing to allow water from all events to enter and exit the site as per the current arrangement whilst minimising the chance for significant obstruction.

Should debris reach the subject site – both the fencing and screening of the undercroft has been designed to fail under debris impact loads. Flood relief valves have been proposed in the demountable units and will allow flood storage within the buildings in events significantly rarer than the 1%AEP.

Based on the above, it is considered the proposed development will have minimal impact to flood behaviour, velocities and levels in the 1%AEP;

- Carparking should be situated no lower than 100mm below the 1%AEP and restraints provided so cars do not become buoyant and act as debris further downstream. No temporary carparking is proposed as part of this work;
- A Flood Emergency Response Plan should be prepared to demonstrate reliable evacuation can be undertaken without additional reliance on the SES. Consultation has been initiated with both the Work Health and Safety Directorate at the Department, as well as potential refuge points offsite above the PMF in preparation of a Flood Emergency Response Plan, a copy of which is attached to this correspondence;

#### **Discussion and Conclusion**

We understand development would normally not be permitted in this area under Council's current policies, and have undertaken proceeded based on the risk hierarchy approach.

• **Elimination**. Several other sites were considered as potential locations for this temporary school. These had concerns relating to student security and as a result, this site was chosen. Furthermore, the exposure to flooding risk will be limited since the school will be a temporary arrangement;



- **Engineering Controls**. Engineering controls have been implemented in the design to minimise the risk to life including nominating floor levels well in excess of the 1%AEP and second storey just below the PMF level. Flood affectation has also been minimised through use of permeable fencing and undercroft screening, which is design to fail under debris impact loads. Structural members supporting the building, however, are designed for loads up to and including the PMF;
- Behaviour Modification. Consultation with DoE WHS Directorate indicated evacuation drills
  are undertaken twice yearly which would provide a good opportunity to educate the school
  population about the dangers of flooding and appropriate response measures. A Flood
  Emergency Management Plan has been prepared for implementation which includes flood
  preparedness measures as well as triggers for evacuation and refuge outside the PMF
  extent in Victoria Road:

As a result of these measures, in particular the temporary nature of the structure, we consider the intent of the DCP has been satisfied and we recommend this correspondence is submitted to Council for their consideration. Should you have any queries, please feel free to contact the undersigned on (02) 4943 1777.

Yours sincerely,

Prepared By:

**Angus Brien**Civil Engineer

Reviewed By:

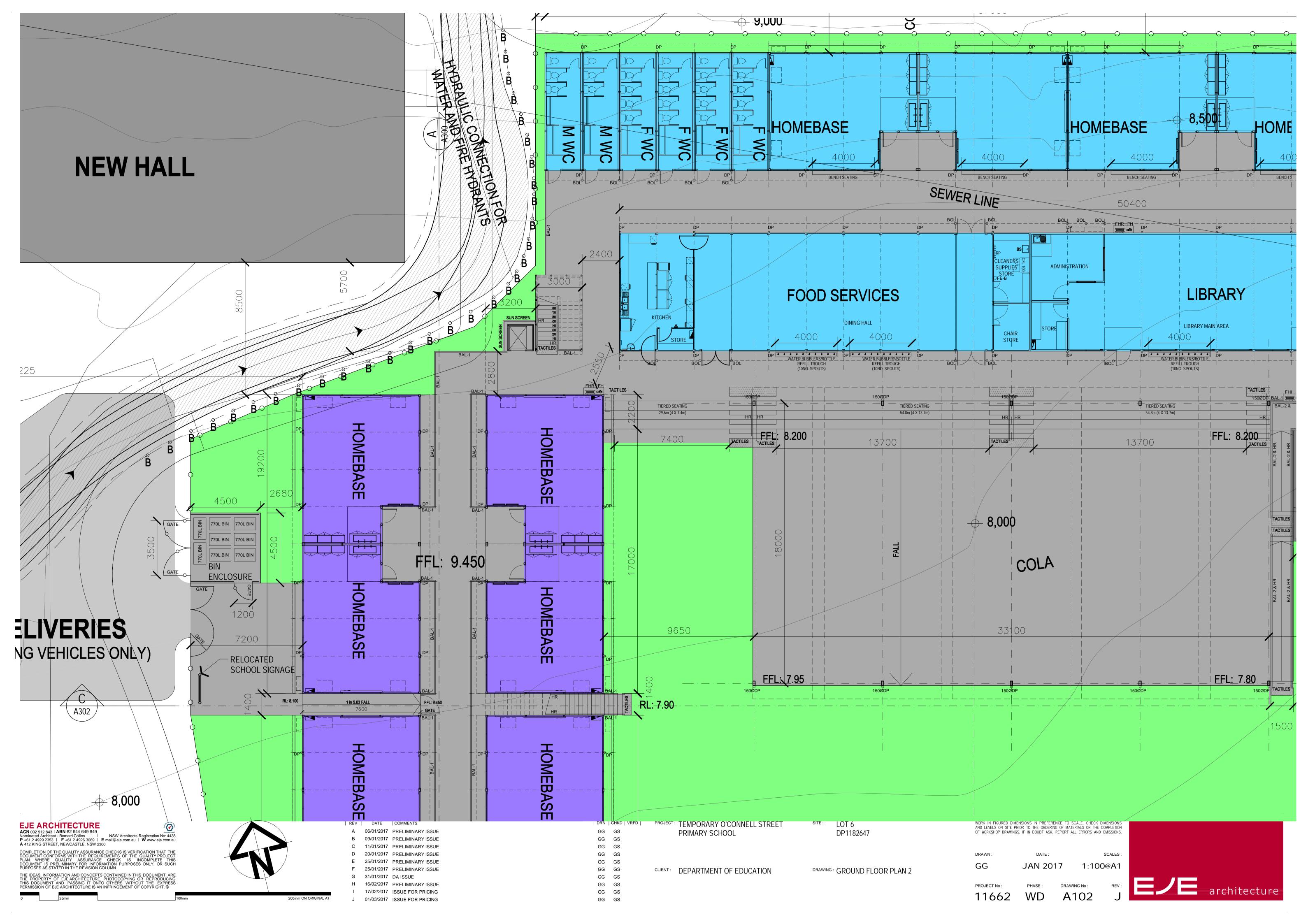
**Ben Clark** Principal

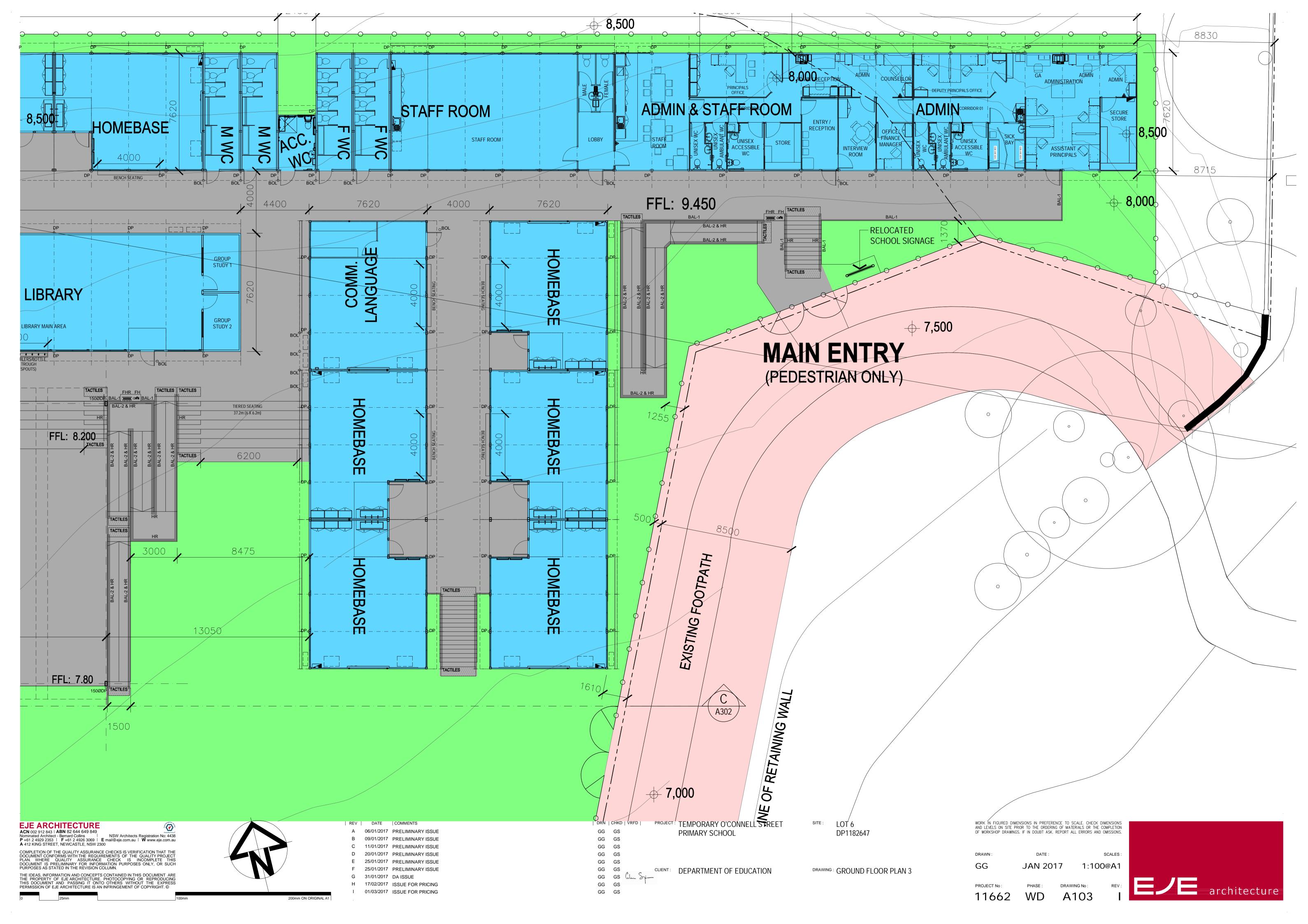
#### **Attachments**

- 1. Architectural Drawings
- 2. Parramatta Flood Enquiry Application
- 3. Flood Emergency Management Plan







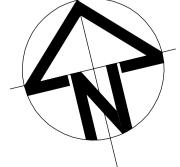




**EJE ARCHITECTURE** 

ACN 002 912 843 | ABN 82 644 649 849 Nominated Architects Pernard Collins | NSW Architects Registration No: 4438 P +61 2 4929 2353 | F +61 2 4926 3069 | E mail@eje.com.au | W www.eje.com.au

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31/01/2017 DA ISSUE

M 16/02/2017 PRELIMINARY ISSUE

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17/02/2017 ISSUE FOR PRICING

GG GS PRIMARY SCHOOL GG GS GG GS GG GS GG GS GG GS CLIENT: DEPARTMENT OF EDUCATION GG GS

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DP1182647 DRAWING: OVERALL FIRST FLOOR PLAN

OF WORKSHOP DRAWINGS. IF IN DOUBT ASK. REPORT ALL ERRORS AND OMISSIONS. DRAWN: SCALES: GG JAN 2017 1:200@A1

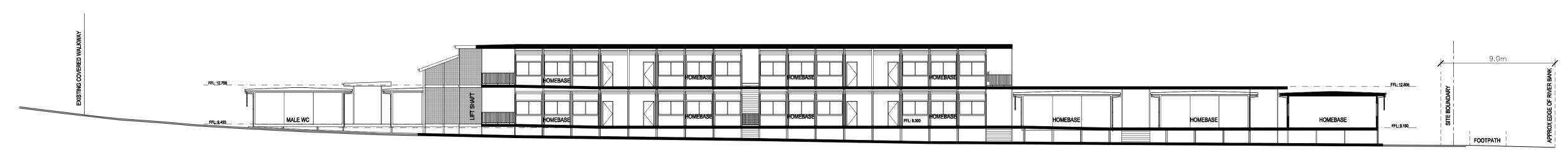
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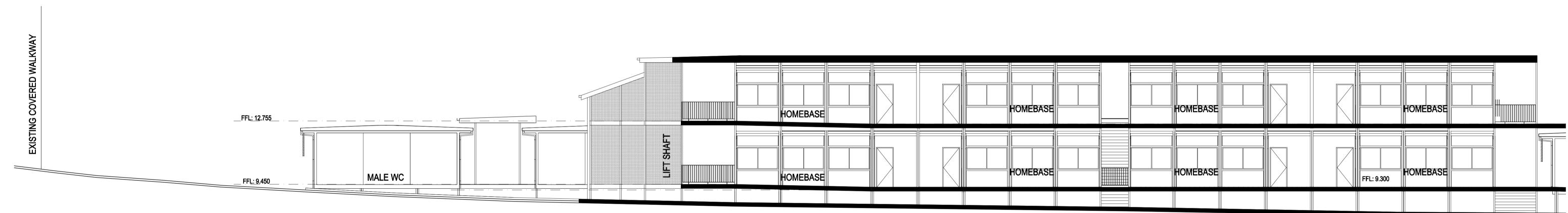






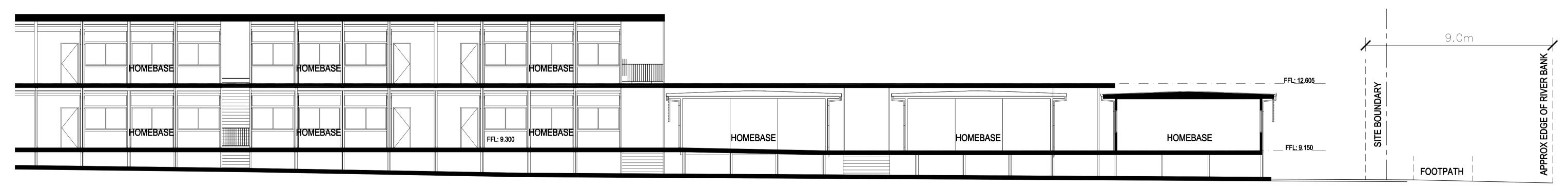
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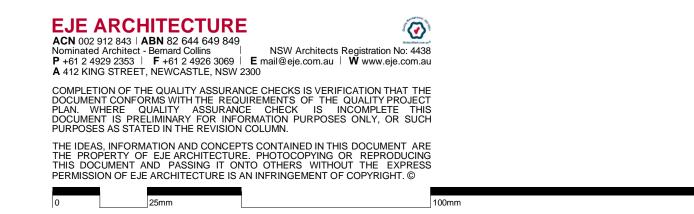
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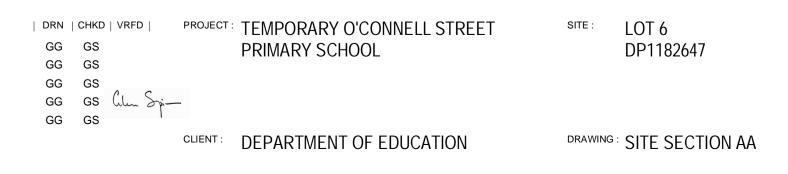


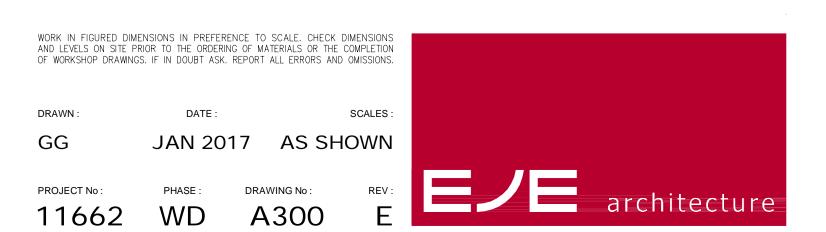
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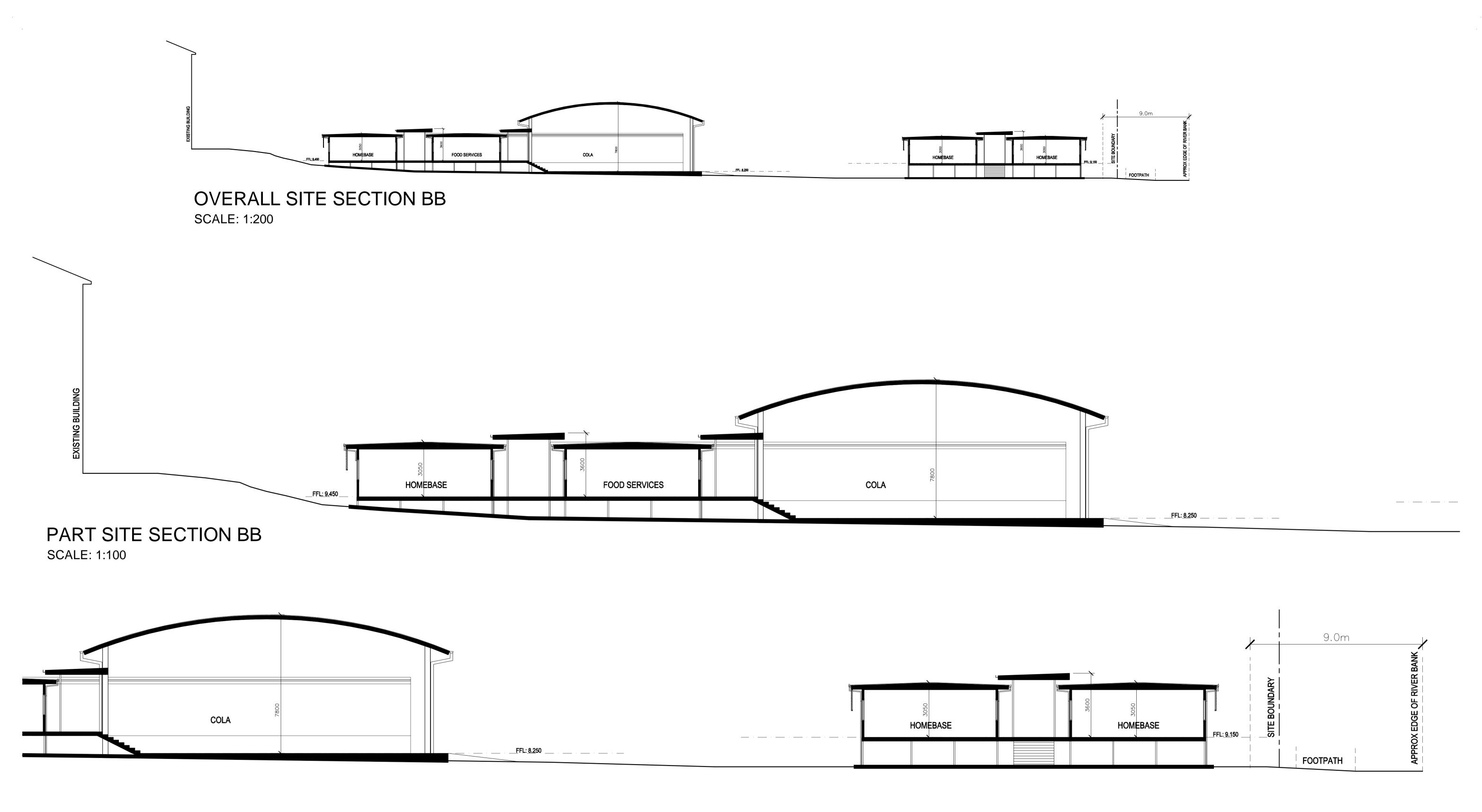
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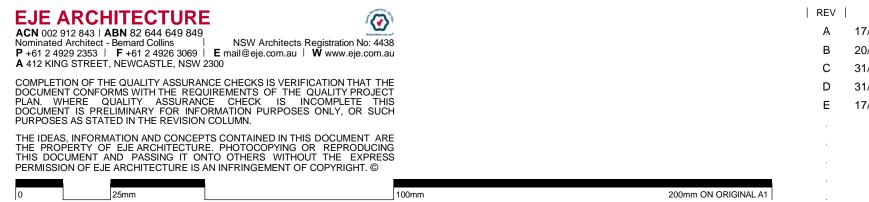


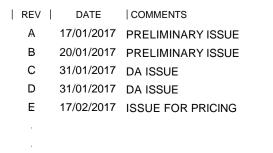


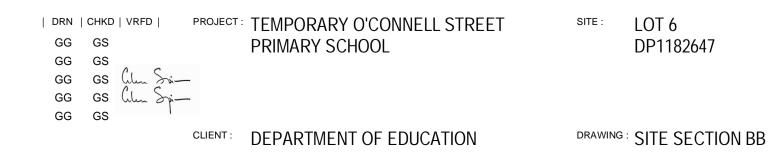


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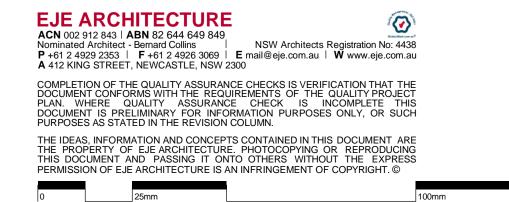
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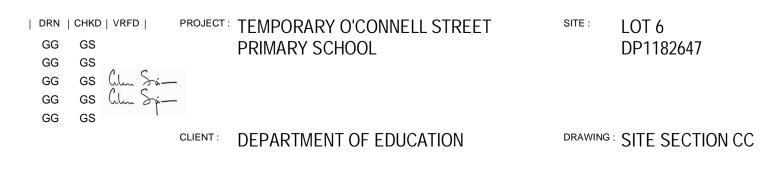


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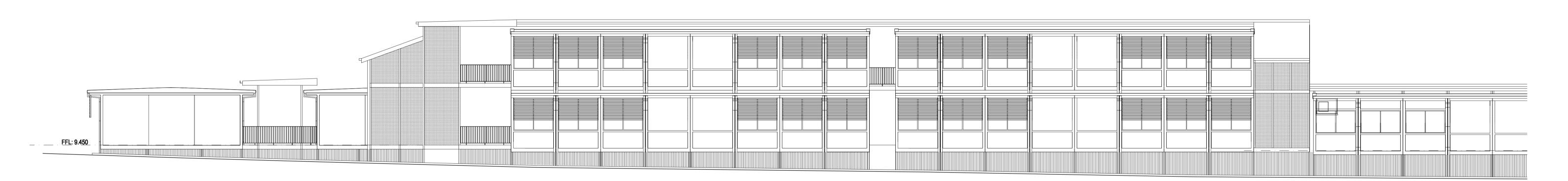






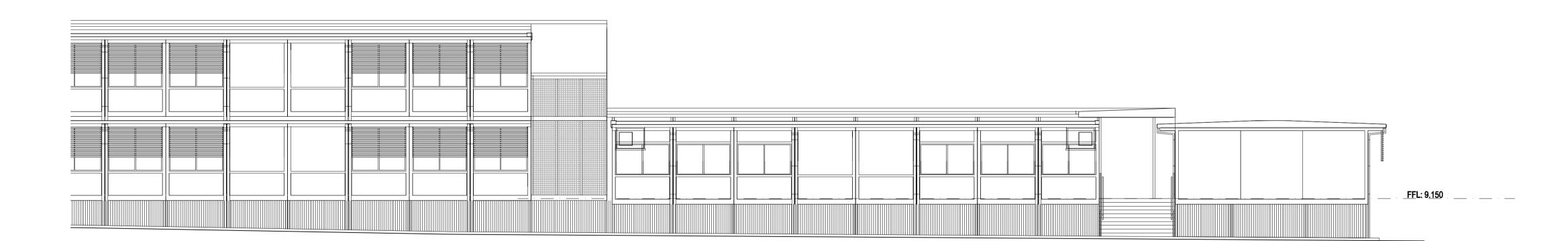


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#### PART WESTERN ELEVATION

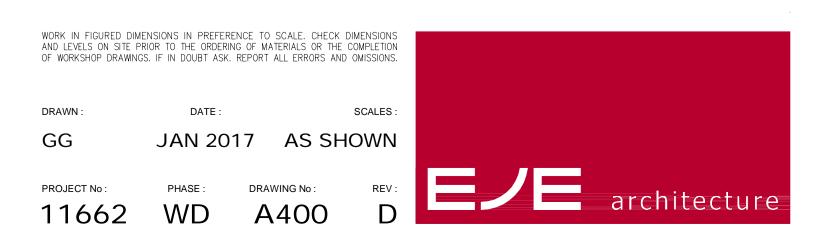
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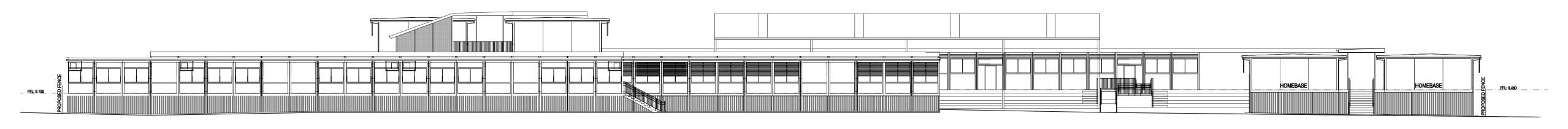


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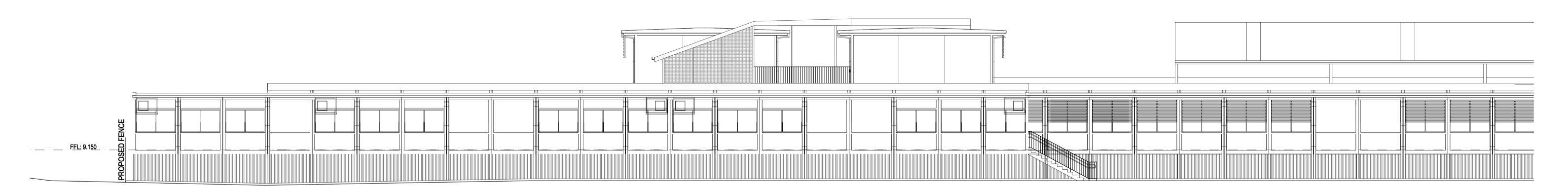
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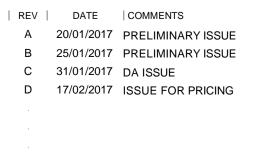
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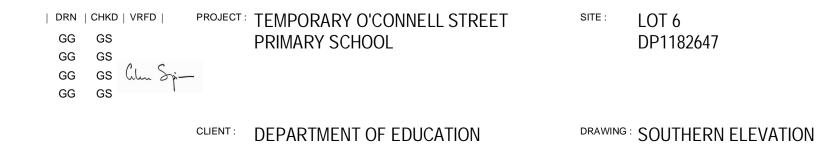


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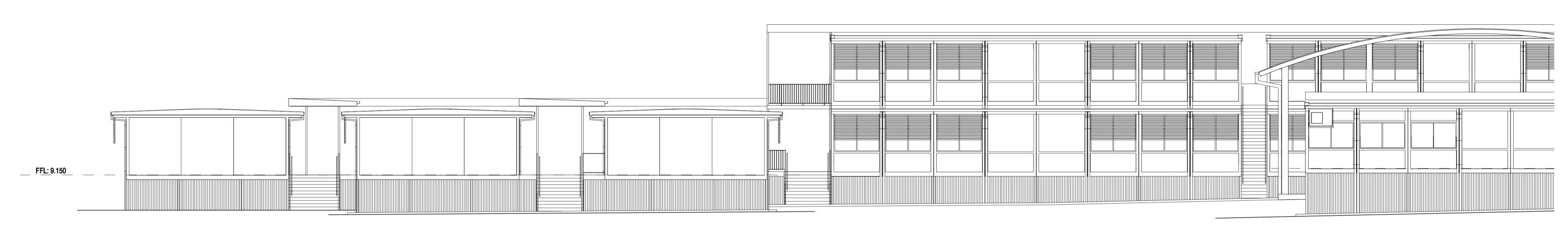






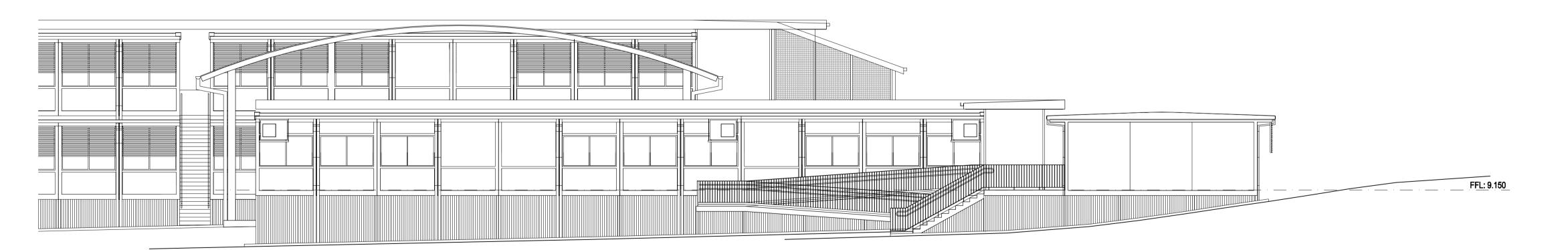
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## PART EASTERN ELEVATION

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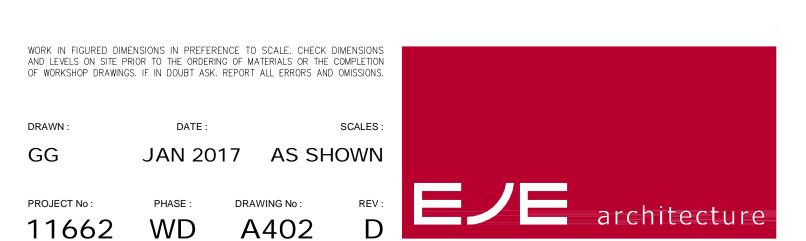


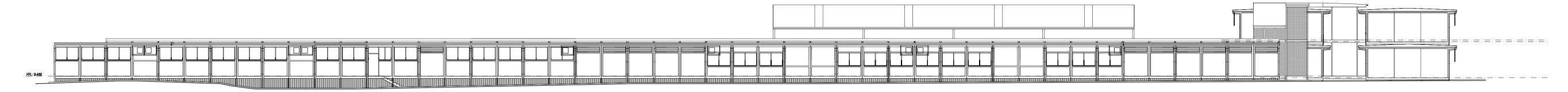
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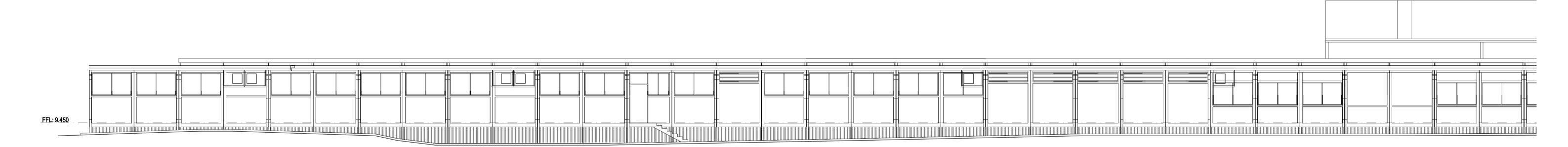
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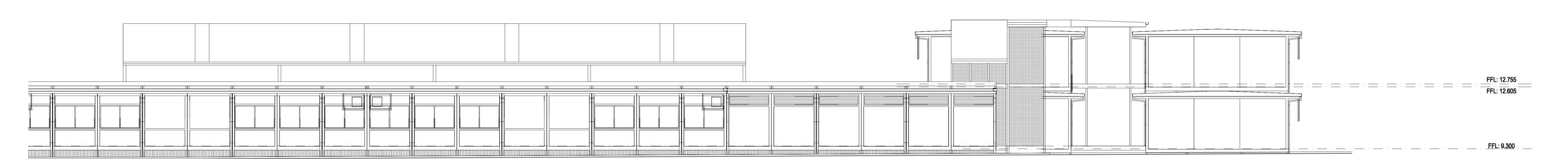
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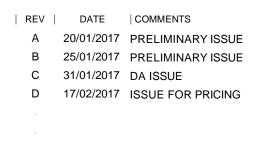
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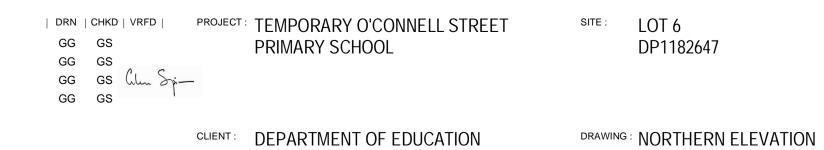


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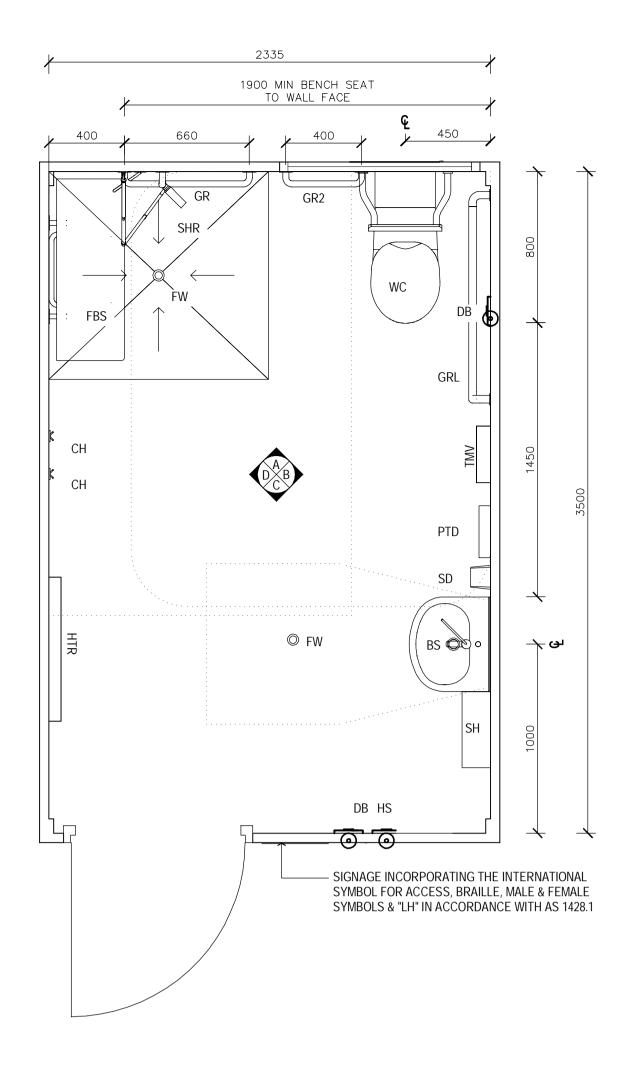
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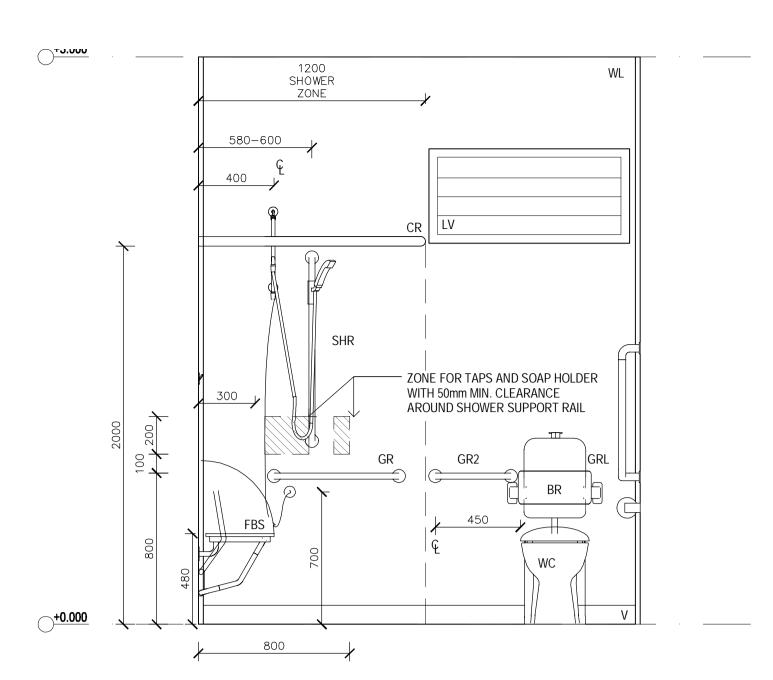




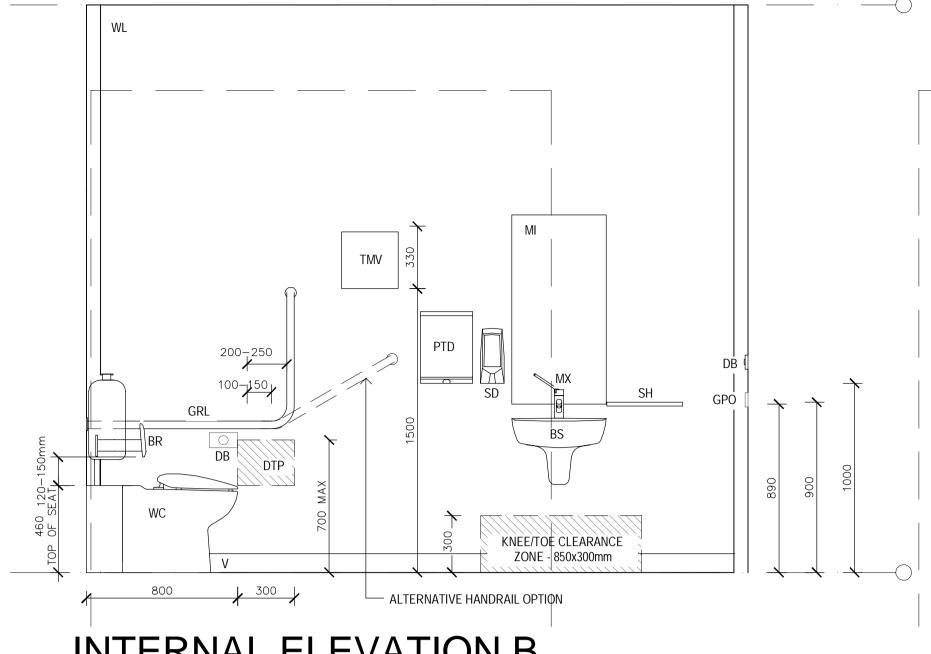




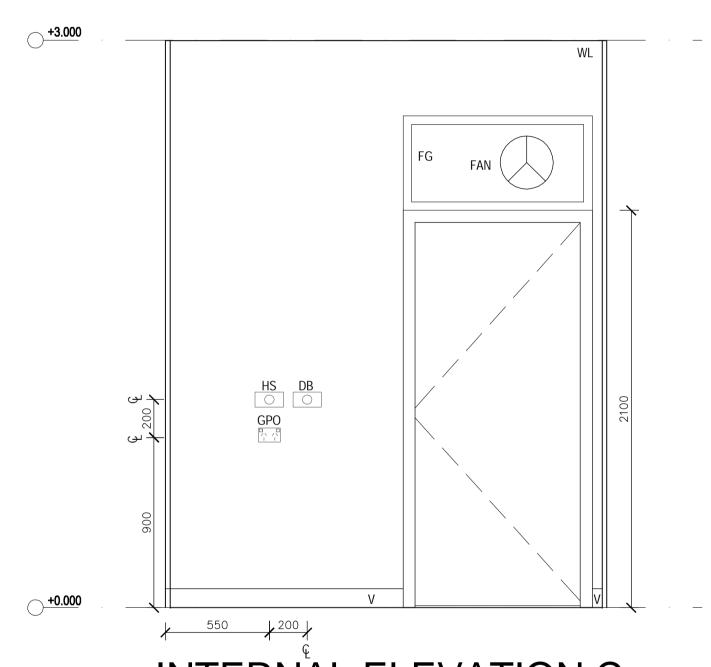
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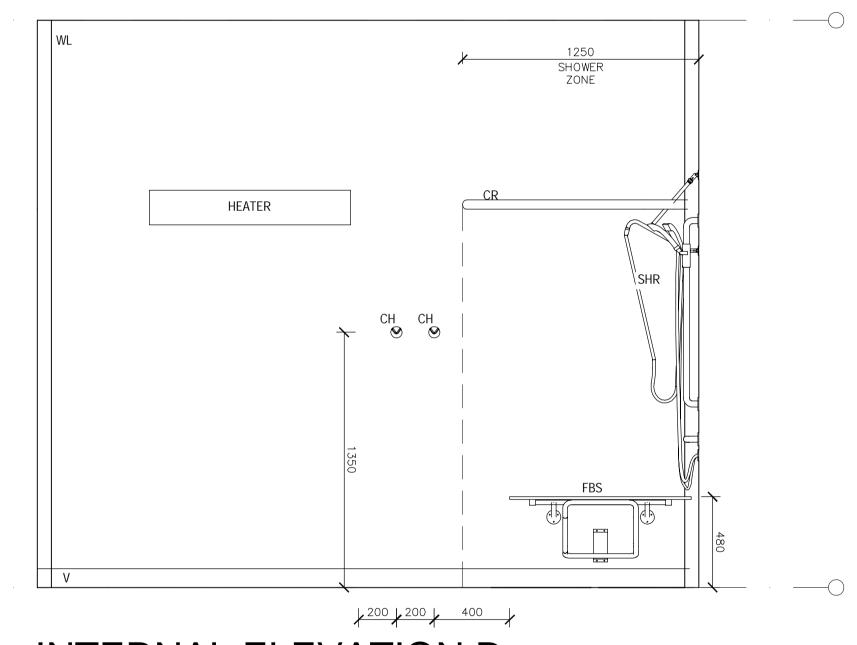
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INTERNAL ELEVATION B SCALE: 1:20



INTERNAL ELEVATION C SCALE: 1:20



INTERNAL ELEVATION D SCALE: 1:20

#### LEGEND

TOILET BACK REST BS **WASH BASIN** 

CH CLOTHES HOOK CURTAIN & CURTAIN RAIL EMERGENCY DISTRESS BUTTON

ELECTRICAL DISTRIBUTION BOARD FANTECH HCM-180N - WINDOW MOUNTED EXHAUST FAN - HARD WIRED TO EDB

TOILET PAPER DISPENSER ZONE 300x300mm

FOLDING BENCH SEAT FG FIXED GLAZING WINDOW FLOOR WASTE

GENERAL POWER OUTLET - DOUBLE GR GRAB RAIL - MIN 660mm

GRAB RAIL - 300mm GRAB RAIL - LEFT HAND ANGLED HS

HEATER SWITCH - PUSH BUTTON TIMER BAR HEATER - HARD WIRED TO EDB

50L HOT WATER SERVICE & ENCLOSURE - EXTERNALLY MOUNTED WITH A SAFE TRAY

LOUVRE WINDOW

WALL MOUNTED POLISHED ALUMINIUM MIRROR - 1000x500mm MX MIXING SPOUT & TAPWARE AS PER AS1428.1

PW PLUMBING WORKS SUGGESTED PATH - TO BE ENCLOSED PAPER TOWEL DISPENSER

VANITY SHELF - WALL MOUNTED

SHOWER SUITE - GALVIN CLEVACARE SYSTEM - TO BE INSTALLED AS PER MANUFACTURERS SPECIFICATIONS

THERMOSTATIC MIXING VALVE - AQUABLEND 1500 & WALL MOUNTED LOCKABLE STAINLESS STEEL CONTROL BOX VINYL SKIRTING AS PER CONTRACT NO. DECPS-14-16 STANDARD OFFER

GOODS AGREEMENT TOILET SUITE - CAROMA COSMO CARE CISTERN, CAROMA CARE PUSH BUTTONS, CAROMA CONCORDE CARE PAN & CAROMA

RECOMMENDED SEAT TO SUIT, OR SIMILAR AS AGREED TO BY THE CLIENT INTERIOR WALL FINISH AS PER CONTRACT NO. DECPS-14-16 STANDARD OFFER GOODS AGREEMENT

#### <u>NOTES</u>

- ALL SWITCHES, FIXTURES & FITTINGS ARE TO BE INSTALLED AS PER RELEVANT SECTIONS OF AS1428.1-2009

- ALL ELECTRICAL APPLIANCES SHALL BE INSTALLED TO RELEVANT SECTIONS OF DAMP AREAS AS/NZS 3000

SITE: LOT 6

- APPROPRIATE SIGNAGE RELEVANT TO ALL WORKS ARE TO BE INCLUDED & ARE TO COMPLY TO AS1428.1-2009

- ALL DIMENSIONS CLEAR REFER TO THE FACE OF THE FINAL FINISHED

- CEILING LIGHTING AND FAN TO BE ACTIVATED BY A CEILING SENSOR, SET TO A TIMER WITH A DURATION AS AGREED TO BY THE CLIENT

**EJE ARCHITECTURE** ACN 002 912 843 | ABN 82 644 649 849

Nominated Architect - Bernard Collins | NSW Architects Registration No: 4438

P+61 2 4929 2353 | F+61 2 4926 3069 | E mail@eje.com.au | W www.eje.com.au

A 412 KING STREET, NEWCASTLE, NSW 2300 COMPLETION OF THE QUALITY ASSURANCE CHECKS IS VERIFICATION THAT THE DOCUMENT CONFORMS WITH THE REQUIREMENTS OF THE QUALITY PROJECT PLAN. WHERE QUALITY ASSURANCE CHECK IS INCOMPLETE THIS DOCUMENT IS PRELIMINARY FOR INFORMATION PURPOSES ONLY, OR SUCH PURPOSES AS STATED IN THE REVISION COLUMN.

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| DRN | CHKD | VRFD | PB GS PB GS GG GS

PROJECT: TEMPORARY O'CONNELL STREET PRIMARY SCHOOL

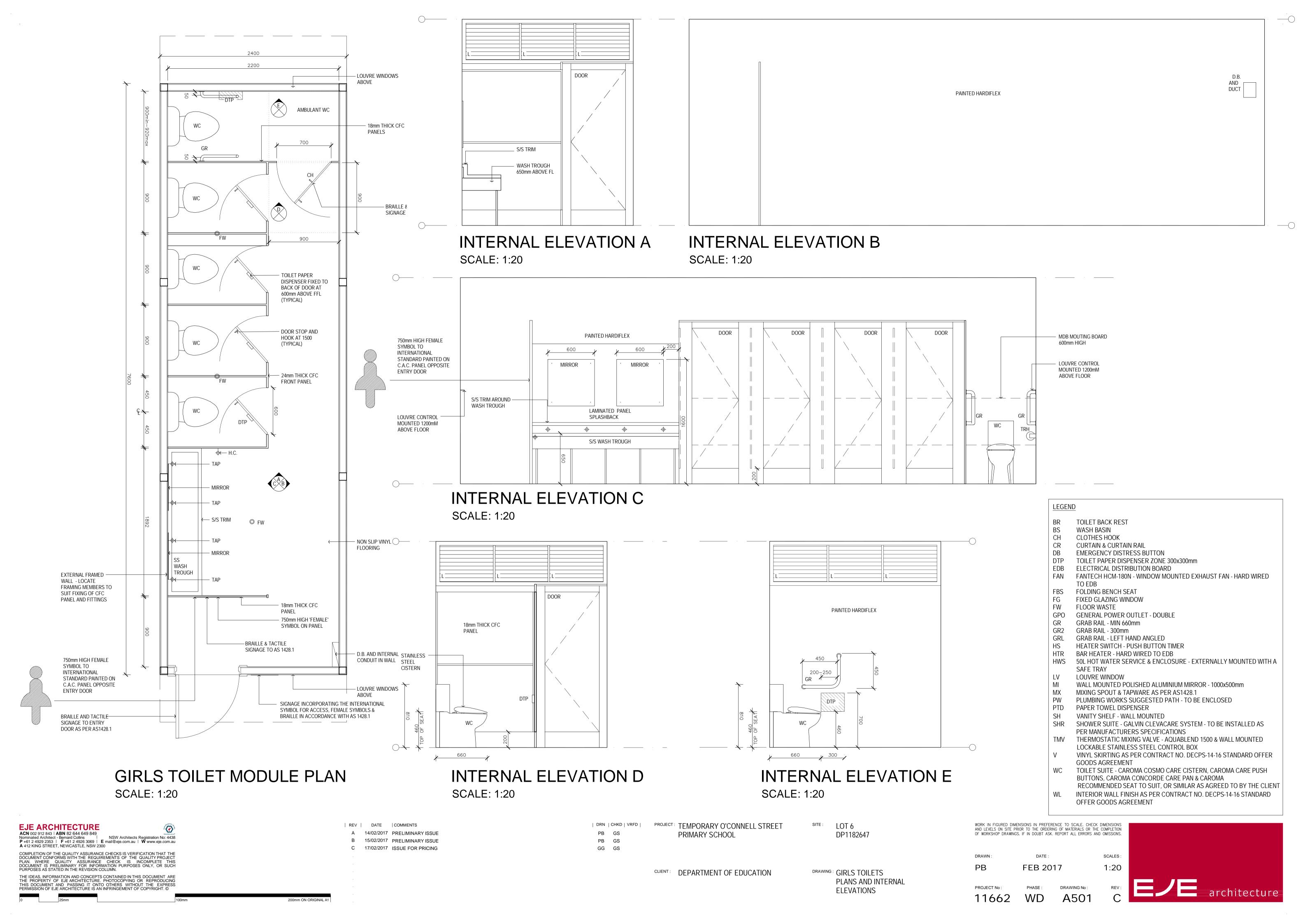
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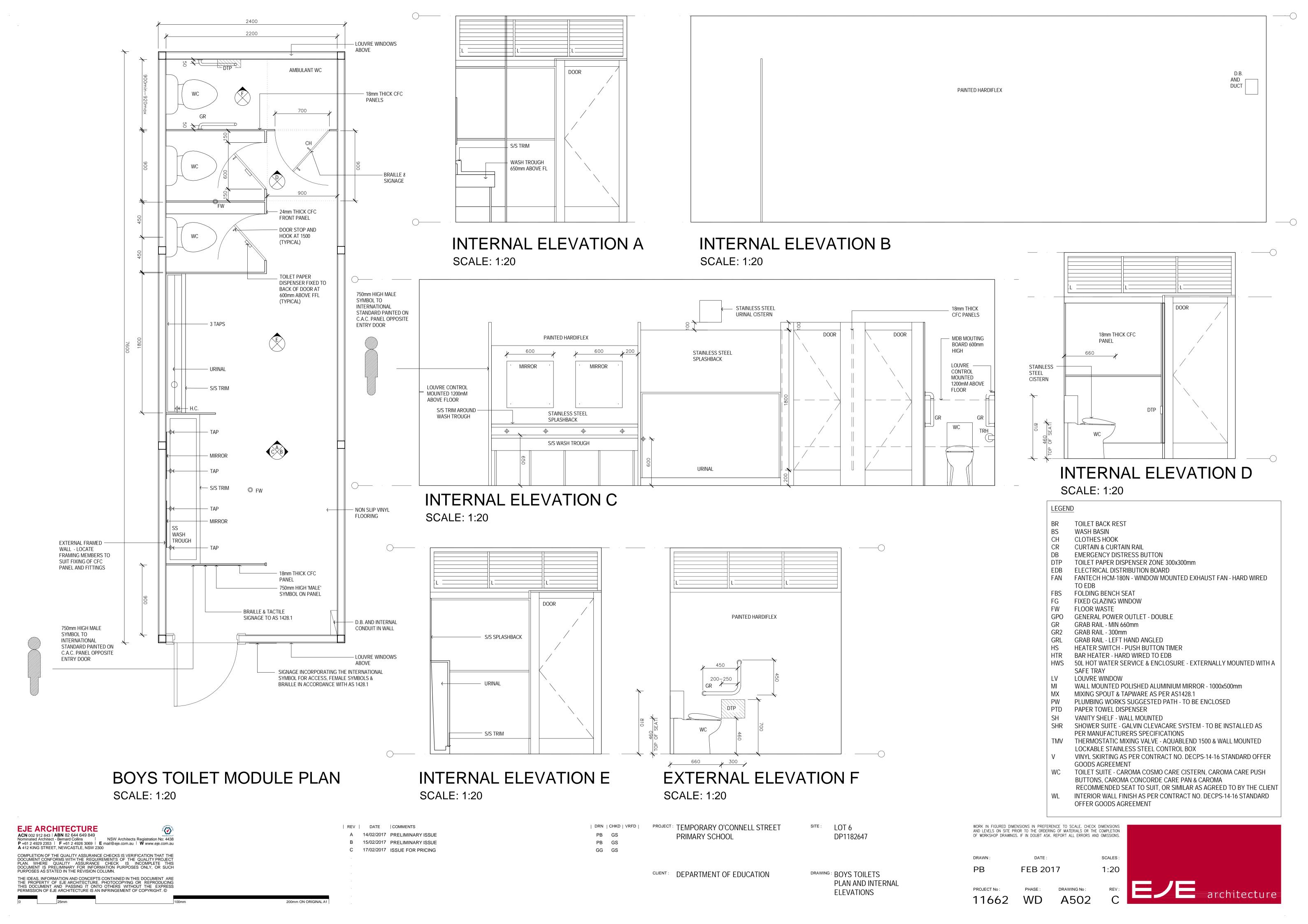
DRAWING: ACCESSIBLE AMENITIES PLAN AND INTERNAL **ELEVATIONS** 

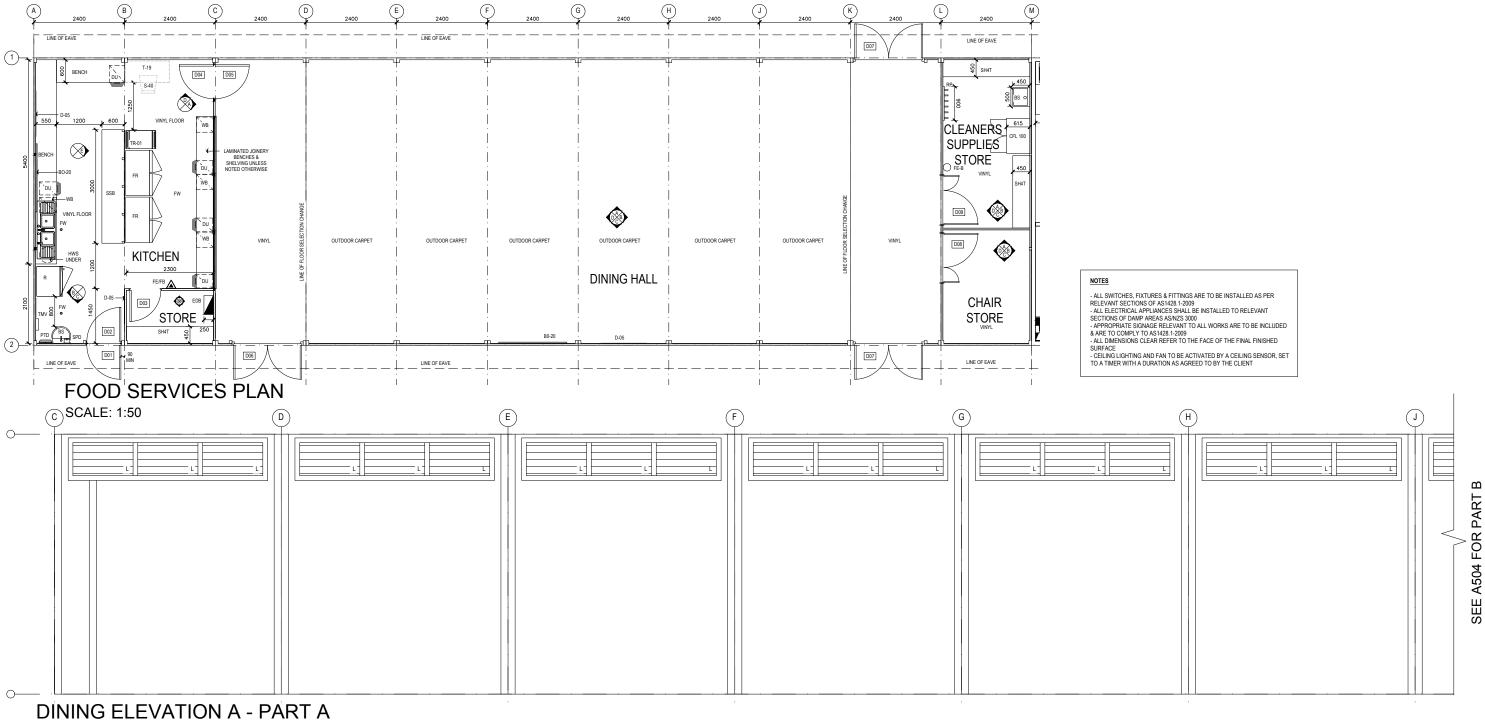
DP1182647

WORK IN FIGURED DIMENSIONS IN PREFERENCE TO SCALE. CHECK DIMENSIONS AND LEVELS ON SITE PRIOR TO THE ORDERING OF MATERIALS OR THE COMPLETION OF WORKSHOP DRAWINGS. IF IN DOUBT ASK. REPORT ALL ERRORS AND OMISSIONS. DRAWN: DATE: SCALES: PΒ FEB 2017 1:20 PROJECT No: A500









SCALE: 1:20

	LEGEND				
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AC1	AIR CONDITIONING UNIT 1	DO9	INTERNAL 900mm PRIMARY LEAF PLUS 400mm SECONDARY LEAF, 35mm SOLID CORE DOOR - KEY LOCKABLE, 20mm UNDERCUT	MW	MESH WINDOW - DOUBLE HUNG FLYSCREEN MESH
ACS	AIR CONDITIONING TIMER SWITCH - COUNTDOWN TIMER, ADJUSTABLE AT EDB, ALSO ACTIVATES VENTILATION FAN		FOR VENTILATION	PDT	PENDANT POWER - CEILING MOUNTED
B-0107	BENCH CUPBOARD	DU	DRAWER - CUTLERY OR SIMILAR, MOUNTED UNDER BENCH	PTD	PAPER TOWEL DISPENSER - OPERATIVE COMPONENT 1000mm H, OR AS PER AS1428.1
BO-20	WHITEBOARD - WALL MOUNTED 900mm H X 1800mm W	EDB	ELECTRICAL DISTRIBUTION BOARD - TO BE INSTALLED AS PER RELEVANT ELECTRICAL AUSTRALIAN STANDARDS	RS	ROLLER SHUTTER - MOUNTED TO STEEL FRAME, INTERNAL TO KITCHEN, ROLLERS ENCLOSED IN BULKHEAD WITH ACCESS
BSN	BASIN WITH LEVER MIXER	ESD	ELECTRICAL SERVICES DUCTING		PANELS FOR MAINTENANCE
D-05	PINBOARD - WALL MOUNTED, 1200mm W x 900mm H	FB	FIRE BLANKET	SH4T	FIXED SHELVING - 450mm DEEP
DAT	DATA OUTLET - DOUBLE	FE	FIRE EXTINGUISHER - TYPE B, 3.5KG, AS PER AS2444, MOUNTED 1200mm TO CENTRE OF HOOK OR HANDLE	SK	VINYL SKIRTING - COVED 150mm HIGH
DM	MONEY DRAWER - MOUNTED UNDER BENCH	FG	FIXED GLAZING - 6.3mm CLEAR LAMINATE	SPD	SOAP DISPENSER - OPERATIVE COMPONENT 1000mm H, OR AS PER AS1428.1
DO2	EXTERNAL 900mm LEAF, 40mm SOLID CORE DOOR - KEY LOCKABLE, DOOR SEALS AS PER THE CONTRACT NO. DECPS-14-16	FSV	FAN SWITCH WITH VARIABLE SPEED DIAL	SPO	SINGLE POWER OUTLET
	STANDARD OFFER GOODS AGREEMENT	GPO	GENERAL POWER OUTLET - DOUBLE 240V 10AMP	SSB	STAINLESS STEEL BENCH - FIXED TO FLOORING
DO3	INTERNAL 820mm LEAF, 35mm SOLID CORE DOOR - KEY LOCKABLE, 20mm UNDERCUT FOR VENTILATION, MIRROR FIXED TO FACE	HWS	HOT WATER SERVICE - 50L, DRIP TRAY WITH ENCLOSED DRAINAGE TO BELOW FLOOR LEVEL	TMS	HOT WATER TIMER SWITCH - ACTIVATES THE ZIP & HWS OUTSIDE TYPICAL SCHOOL HOURS
DO4	INTERNAL 900mm LEAF, 35mm SOLID CORE DOOR - KEY LOCKABLE, 20mm UNDERCUT FOR VENTILATION	ISW	HWS ISOLATING SWITCH	TMV	THERMOSTATIC MIXING VALVE - AQUABLEND 1500 & WALL MOUNTED LOCKABLE STAINLESS STEEL CONTROL BOX, SHOWN
DO5	EXTERNAL 900mm LEAF, DIAMOND PATTERN MESH SECURITY SCREEN WITH FLYSCREEN - LOCKABLE FROM THE INSIDE	KS	KITCHEN SINK - STAINLESS STEEL SINK, TAP & MIXER		300mm W x 300mm H x 75mm D
DO6	EXTERNAL DOUBLE DOOR 2x900mm LEAF, 40mm SOLID CORE DOOR - KEY LOCKABLE, DOOR SEALS AS PER THE CONTRACT NO.	LSA	LIGHT SWITCH - AUTOMATIC, MANUAL, OFF	WB	WIRE BASKET DRAWER - MOUNTED UNDER BENCH
	DECPS-14-16 STANDARD OFFER GOODS AGREEMENT, EMERGENCY EGRESS BARS FITTED INTERNALLY	LSS	LIGHT SWITCH - SINGLE SWITCH	ZIP	ZIP BOIL - BOILER / CHILLER / FILTER UNIT
DO7	EXTERNAL DOUBLE DOOR 2x900mm LEAF, 40mm SOLID CORE DOOR - KEY LOCKABLE, DOOR SEALS AS PER THE CONTRACT NO.	M	MIRROR - 800mm CLEAR ABOVE FFL, 1000mm H x 500mm W	ZS	ZIP BOIL - SPOUT HARDWARE
DO8	DECPS-14-16 STANDARD OFFER GOODS AGREEMENT, EMERGENCY EGRESS BARS FITTED INTERNALLY INTERNAL 900mm PRIMARY LEAF PLUS 400mm SECONDARY LEAF, 35mm SOLID CORE DOOR - KEY LOCKABLE, 20mm UNDERCUT FOR VENTILATION	MSS	MASTER SWITCH - MASTER CONTROL SWITCH FOR HWS & ZIP		

| REV | DATE | COMMENTS A 20/02/2017 PRELIMINARY ISSUE

PROJECT: TEMPORARY O'CONNELL STREET PRIMARY SCHOOL

CLIENT: DEPARTMENT OF EDUCATION

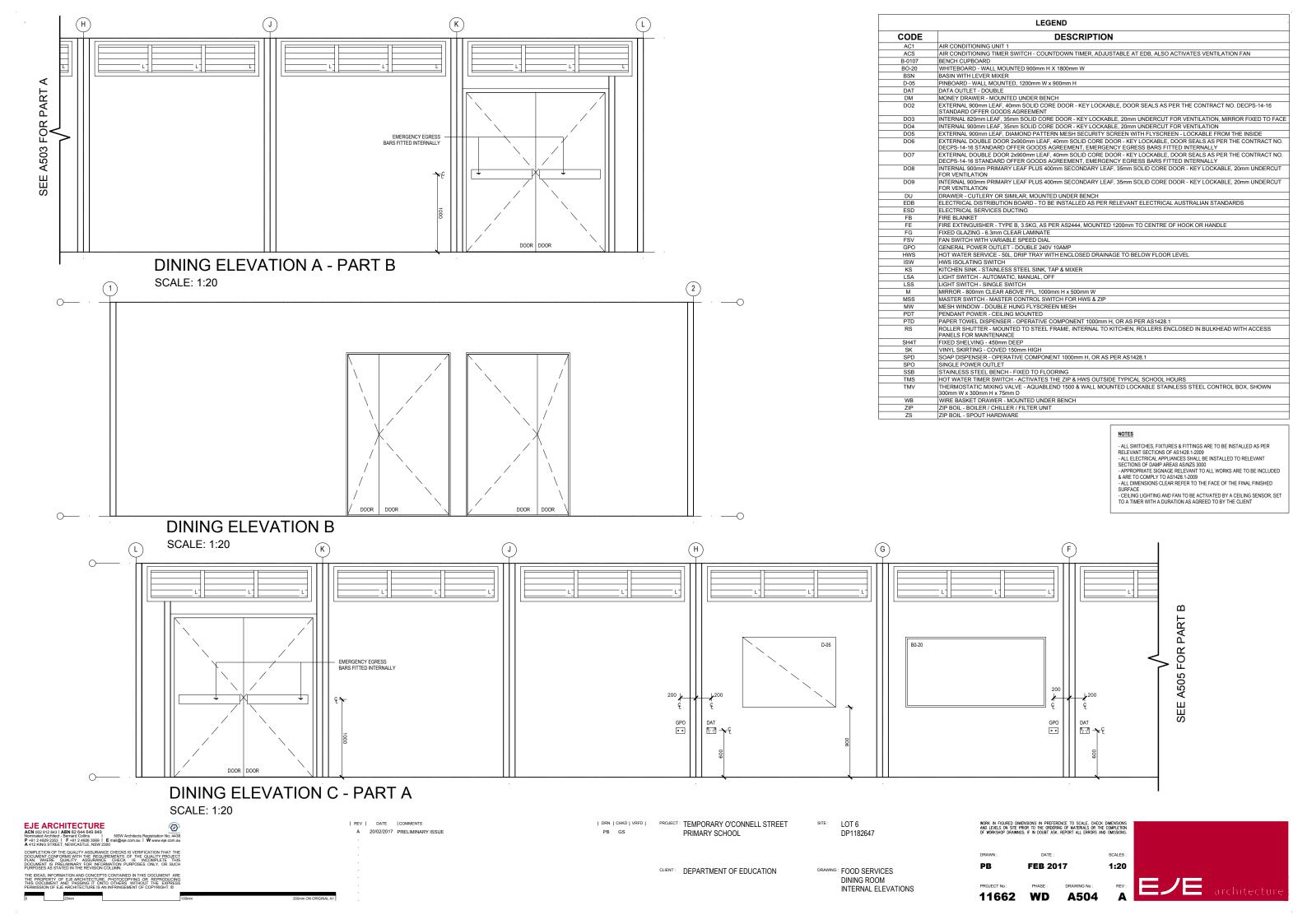
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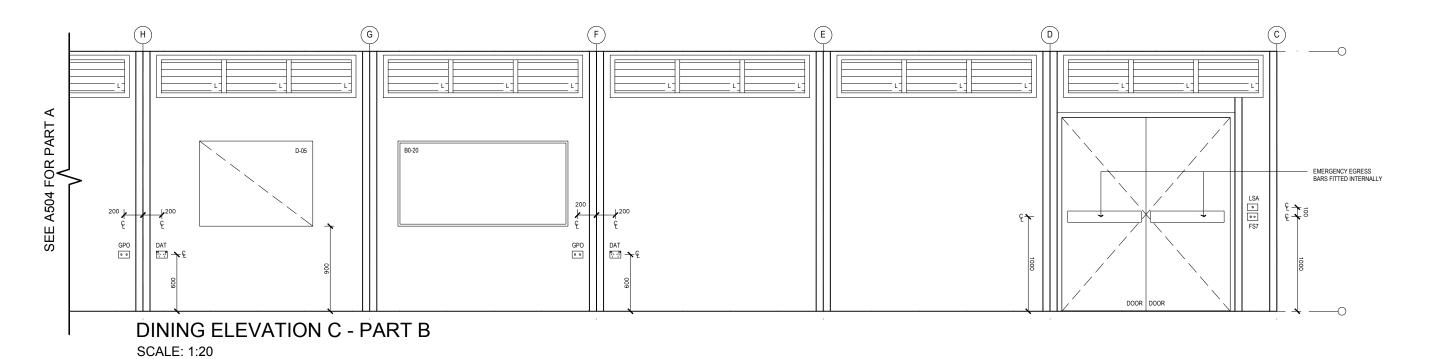
DRAWING: FOOD SERVICES PLAN AND DINING ROOM ELEVATION

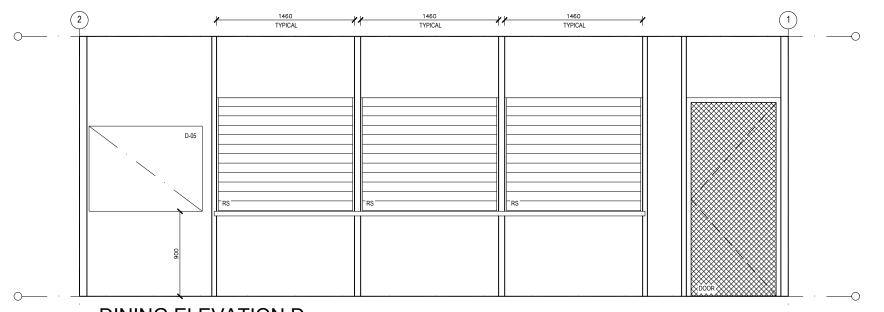
SCALES :

PB **FEB 2017** 1:20 A503 11662 WD









DINING ELEVATION D SCALE: 1:20

NOTES	

- ALL SWITCHES, FIXTURES & FITTINGS ARE TO BE INSTALLED AS PER RELEVANT SECTIONS OF AS142&1-2009
- ALL ELECTRICAL APPLIANCES SHALL BE INSTALLED TO RELEVANT SECTIONS OF DAMP AREAS ASINZS 3000
- APPROPRIATE SIGNAGE RELEVANT TO ALL WORKS ARE TO BE INCLUDED & ARE TO COMPLY TO ASIA28.1-2009
- ALL DIMENSIONS CLEAR REFER TO THE FACE OF THE FINAL FINISHED SURFACE
- CEILING LIGHTING AND FAN TO BE ACTIVATED BY A CEILING SENSOR, SET TO A TIMER WITH A DURATION AS AGREED TO BY THE CLIENT

	LEGEND
CODE	DESCRIPTION
AC1	AIR CONDITIONING UNIT 1
ACS	AIR CONDITIONING TIMER SWITCH - COUNTDOWN TIMER, ADJUSTABLE AT EDB, ALSO ACTIVATES VENTILATION FAN
B-0107	BENCH CUPBOARD
BO-20	WHITEBOARD - WALL MOUNTED 900mm H X 1800mm W
BSN	BASIN WITH LEVER MIXER
D-05	PINBOARD - WALL MOUNTED, 1200mm W x 900mm H
DAT	DATA OUTLET - DOUBLE
DM	MONEY DRAWER - MOUNTED UNDER BENCH
DO2	EXTERNAL 900mm LEAF, 40mm SOLID CORE DOOR - KEY LOCKABLE, DOOR SEALS AS PER THE CONTRACT NO. DECPS-14-16 STANDARD OFFER GOODS AGREEMENT
DO3	INTERNAL 820mm LEAF, 35mm SOLID CORE DOOR - KEY LOCKABLE, 20mm UNDERCUT FOR VENTILATION, MIRROR FIXED TO FACE
DO4	INTERNAL 900mm LEAF, 35mm SOLID CORE DOOR - KEY LOCKABLE, 20mm UNDERCUT FOR VENTILATION
DO5	EXTERNAL 900mm LEAF, DIAMOND PATTERN MESH SECURITY SCREEN WITH FLYSCREEN - LOCKABLE FROM THE INSIDE
DO6	EXTERNAL DOUBLE DOOR 2x900mm LEAF, 40mm SOLID CORE DOOR - KEY LOCKABLE, DOOR SEALS AS PER THE CONTRACT NO DECPS-14-16 STANDARD OFFER GOODS AGREEMENT, EMERGENCY EGRESS BARS FITTED INTERNALLY
DO7	EXTERNAL DOUBLE DOOR 2x900mm LEAF, 40mm SOLID CORE DOOR - KEY LOCKABLE, DOOR SEALS AS PER THE CONTRACT NO DECPS-14-16 STANDARD OFFER GOODS AGREEMENT, EMERGENCY EGRESS BARS FITTED INTERNALLY
DO8	INTERNAL 900mm PRIMARY LEAF PLUS 400mm SECONDARY LEAF, 35mm SOLID CORE DOOR - KEY LOCKABLE, 20mm UNDERCUT FOR VENTILATION
DO9	INTERNAL 900mm PRIMARY LEAF PLUS 400mm SECONDARY LEAF, 35mm SOLID CORE DOOR - KEY LOCKABLE, 20mm UNDERCUT FOR VENTILATION
DU	DRAWER - CUTLERY OR SIMILAR, MOUNTED UNDER BENCH
EDB	ELECTRICAL DISTRIBUTION BOARD - TO BE INSTALLED AS PER RELEVANT ELECTRICAL AUSTRALIAN STANDARDS
ESD	ELECTRICAL SERVICES DUCTING
FB	FIRE BLANKET
FE	FIRE EXTINGUISHER - TYPE B, 3.5KG, AS PER AS2444, MOUNTED 1200mm TO CENTRE OF HOOK OR HANDLE
FG	FIXED GLAZING - 6.3mm CLEAR LAMINATE
FSV	FAN SWITCH WITH VARIABLE SPEED DIAL
GPO	GENERAL POWER OUTLET - DOUBLE 240V 10AMP
HWS	HOT WATER SERVICE - 50L, DRIP TRAY WITH ENCLOSED DRAINAGE TO BELOW FLOOR LEVEL
ISW	HWS ISOLATING SWITCH
KS	KITCHEN SINK - STAINLESS STEEL SINK, TAP & MIXER
LSA	LIGHT SWITCH - AUTOMATIC, MANUAL, OFF
LSS	LIGHT SWITCH - SINGLE SWITCH
M	MIRROR - 800mm CLEAR ABOVE FFL, 1000mm H x 500mm W
MSS	MASTER SWITCH - MASTER CONTROL SWITCH FOR HWS & ZIP
MW	MESH WINDOW - DOUBLE HUNG FLYSCREEN MESH
PDT	PENDANT POWER - CEILING MOUNTED
PTD	PAPER TOWEL DISPENSER - OPERATIVE COMPONENT 1000mm H, OR AS PER AS1428.1
RS	ROLLER SHUTTER - MOUNTED TO STEEL FRAME, INTERNAL TO KITCHEN, ROLLERS ENCLOSED IN BULKHEAD WITH ACCESS PANELS FOR MAINTENANCE
SH4T	FIXED SHELVING - 450mm DEEP
SK	VINYL SKIRTING - COVED 150mm HIGH
SPD	SOAP DISPENSER - OPERATIVE COMPONENT 1000mm H, OR AS PER AS1428.1
SPO	SINGLE POWER OUTLET
SSB	STAINLESS STEEL BENCH - FIXED TO FLOORING
TMS	HOT WATER TIMER SWITCH - ACTIVATES THE ZIP & HWS OUTSIDE TYPICAL SCHOOL HOURS
TMV	THERMOSTATIC MIXING VALVE - AQUABLEND 1500 & WALL MOUNTED LOCKABLE STAINLESS STEEL CONTROL BOX, SHOWN 300mm W x 300mm H x 75mm D
WB	WIRE BASKET DRAWER - MOUNTED UNDER BENCH
ZIP	ZIP BOIL - BOILER / CHILLER / FILTER UNIT
ZS	ZIP BOIL - SPOUT HARDWARE

<b>EJE ARCHITECTURE</b>	(A)
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COMPLETION OF THE QUALITY ASSURAN DOCUMENT CONFORMS WITH THE REQU	IREMENTS OF THE QUALITY PROJECT

PLAN. WHERE QUALITY ASSURANCE CHECK IS INCOMPLETE THIS DOCUMENT IS PRELIMINARY FOR INFORMATION PURPOSES ONLY, OR SUCH PURPOSES AS STATED IN THE REVISION COLUMN.

| REV | DATE | COMMENTS A 20/02/2017 PRELIMINARY ISSUE

| DRN | CHKD | VRFD | PROJECT: TEMPORARY O'CONNELL STREET PRIMARY SCHOOL

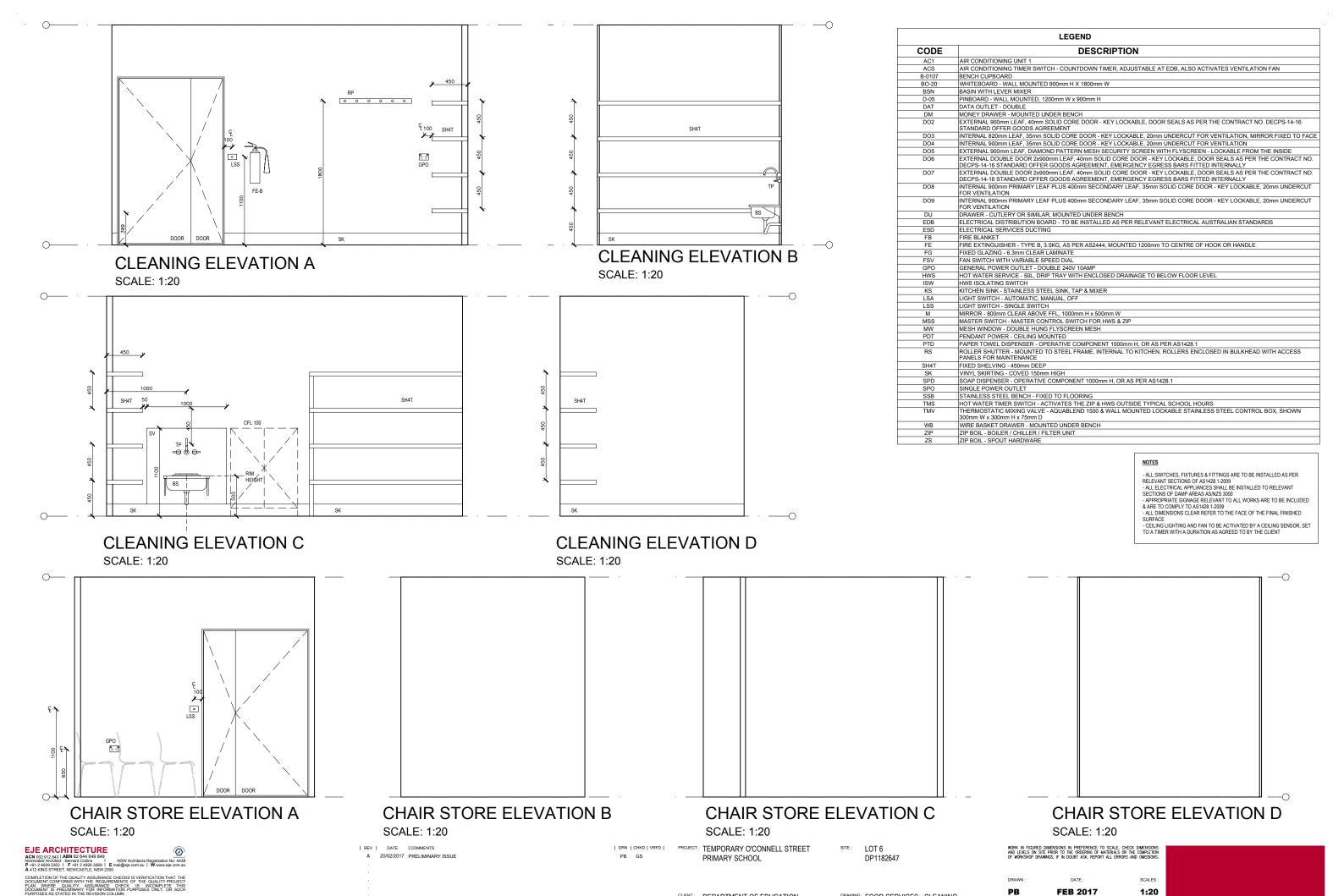
LOT 6 DP1182647

CLIENT: DEPARTMENT OF EDUCATION

DRAWING: FOOD SERVICES DINING ROOM INTERNAL ELEVATIONS

**FEB 2017** 





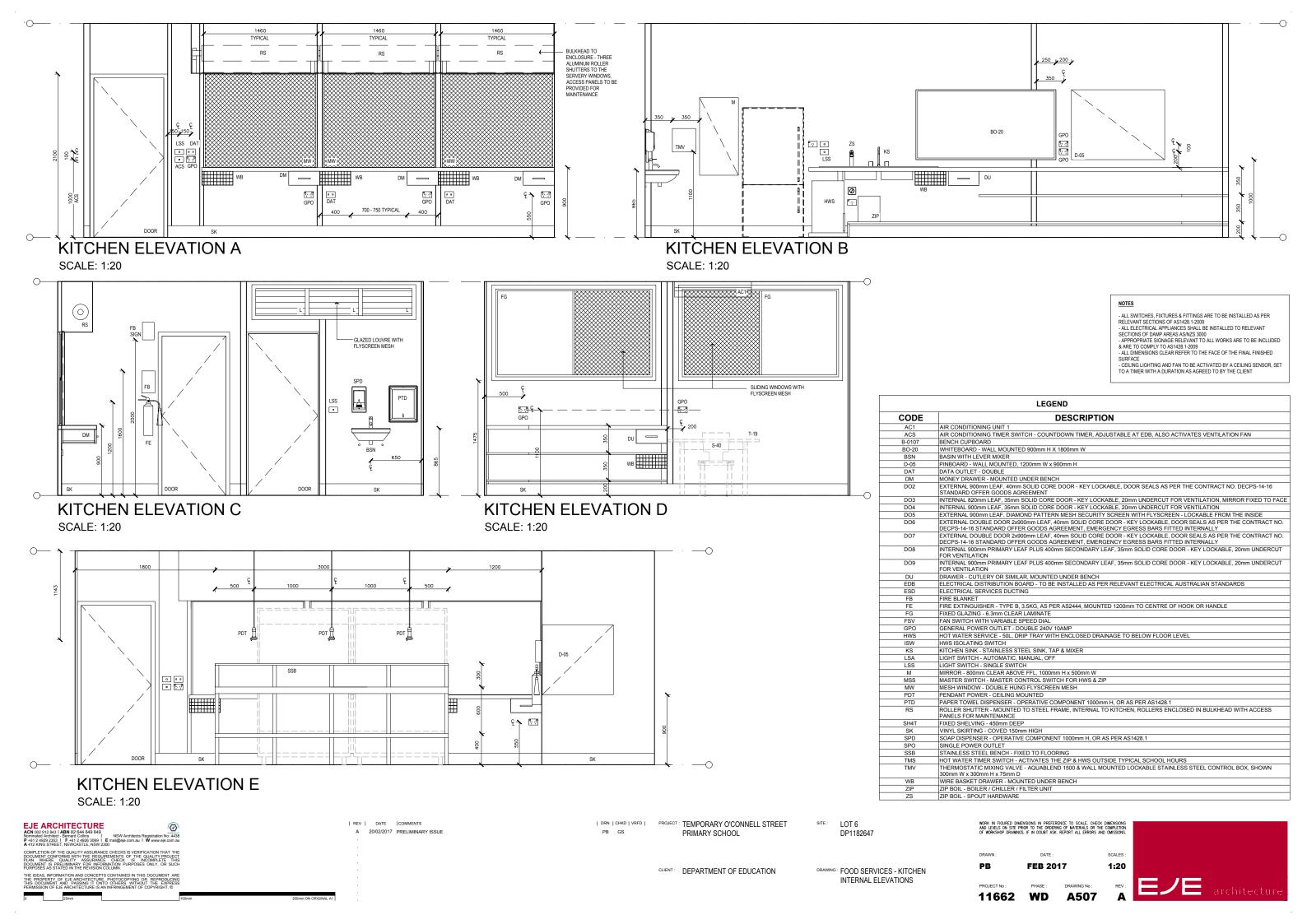
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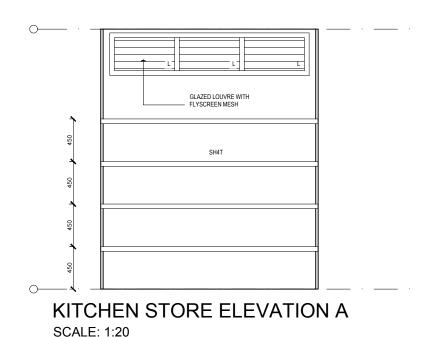
DRAWING: FOOD SERVICES - CLEANING AND CHAIR STORE INTERNAL ELEVATIONS

11662

WD

A506



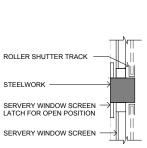




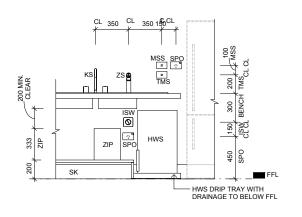




KITCHEN STORE ELEVATION D SCALE: 1:20







SINK DETAIL SCALE: 1:20

#### INTERNAL WALL & STRUCTURAL STEELWORK AS PER THE CONTRACT 'DECPS14-16 STANDARD OFFER GOODS AGREEMENT' BULKHEAD WITH ACCESS PANELS FOR ROLLER SHUTTER GPO MOUNTED UNDERSIDE OF BULKHEAD SERVERY WINDOW SCREEN LATCH FOR OPEN POSITION ROLLER SHUTTER TRACKS TO BE SET FLUSH TO FACE OF STEELWORK, STUDENT SIDE MESH SERVERY WINDOW - OPERATED-& LOCKABLE FROM THE KITCHEN SERVERY SIDE, TO BE SET FLUSH TO STEELWORK KITCHEN SERVERY SIDE KITCHEN STUDENT SERVERY SIDE DM GPO-

#### **SERVERY BENCH SECTION** SCALE: 1:10

,	NOTES	

- ALL SWITCHES, FIXTURES & FITTINGS ARE TO BE INSTALLED AS PER
- ALL SWITCHES, FIXTURES & FITTINGS ARE TO BE INSTALLED AS PER RELEVANT SECTIONS OF A S1428.1-2009

   ALL ELECTRICAL APPLIANCES SHALL BE INSTALLED TO RELEVANT SECTIONS OF DAMP AREAS ASIVES 3000

   APPROPRIATE SIGNAGE RELEVANT TO ALL WORKS ARE TO BE INCLUDED & ARE TO COMPLY TO A S1428.1-2009

   ALL DIMENSIONS CLEAR REFER TO THE FACE OF THE FINAL FINISHED

SURFACE
- CEILING LIGHTING AND FAN TO BE ACTIVATED BY A CEILING SENSOR, SET
TO A TIMER WITH A DURATION AS AGREED TO BY THE CLIENT

LEGEND		
CODE	DESCRIPTION	
AC1	AIR CONDITIONING UNIT 1	
ACS	AIR CONDITIONING TIMER SWITCH - COUNTDOWN TIMER, ADJUSTABLE AT EDB, ALSO ACTIVATES VENTILATION FAN	
B-0107	BENCH CUPBOARD	
BO-20	WHITEBOARD - WALL MOUNTED 900mm H X 1800mm W	
BSN	BASIN WITH LEVER MIXER	
D-05	PINBOARD - WALL MOUNTED, 1200mm W x 900mm H	
DAT	DATA OUTLET - DOUBLE	
DM	MONEY DRAWER - MOUNTED UNDER BENCH	
DO2	EXTERNAL 900mm LEAF, 40mm SOLID CORE DOOR - KEY LOCKABLE, DOOR SEALS AS PER THE CONTRACT NO. DECPS-14-16 STANDARD OFFER GOODS AGREEMENT	
DO3	INTERNAL 820mm LEAF, 35mm SOLID CORE DOOR - KEY LOCKABLE, 20mm UNDERCUT FOR VENTILATION, MIRROR FIXED TO FACE	
DO4	INTERNAL 900mm LEAF, 35mm SOLID CORE DOOR - KEY LOCKABLE, 20mm UNDERCUT FOR VENTILATION	
DO5	EXTERNAL 900mm LEAF, DIAMOND PATTERN MESH SECURITY SCREEN WITH FLYSCREEN - LOCKABLE FROM THE INSIDE	
DO6	EXTERNAL DOUBLE DOOR 2x900mm LEAF, 40mm SOLID CORE DOOR - KEY LOCKABLE, DOOR SEALS AS PER THE CONTRACT NO. DECPS-14-16 STANDARD OFFER GOODS AGREEMENT, EMERGENCY EGRESS BARS FITTED INTERNALLY	
DO7	EXTERNAL DOUBLE DOOR 2x900mm LEAF, 40mm SOLID CORE DOOR - KEY LOCKABLE, DOOR SEALS AS PER THE CONTRACT NO. DECPS-14-16 STANDARD OFFER GOODS AGREEMENT, EMERGENCY EGRESS BARS FITTED INTERNALLY	
DO8	INTERNAL 900mm PRIMARY LEAF PLUS 400mm SECONDARY LEAF, 35mm SOLID CORE DOOR - KEY LOCKABLE, 20mm UNDERCUT FOR VENTILATION	
DO9	INTERNAL 900mm PRIMARY LEAF PLUS 400mm SECONDARY LEAF, 35mm SOLID CORE DOOR - KEY LOCKABLE, 20mm UNDERCUT FOR VENTILATION	
DU	DRAWER - CUTLERY OR SIMILAR, MOUNTED UNDER BENCH	
EDB	ELECTRICAL DISTRIBUTION BOARD - TO BE INSTALLED AS PER RELEVANT ELECTRICAL AUSTRALIAN STANDARDS	
ESD	ELECTRICAL SERVICES DUCTING	
FB	FIRE BLANKET	
FE	FIRE EXTINGUISHER - TYPE B, 3.5KG, AS PER AS2444, MOUNTED 1200mm TO CENTRE OF HOOK OR HANDLE	
FG	FIXED GLAZING - 6.3mm CLEAR LAMINATE	
FSV	FAN SWITCH WITH VARIABLE SPEED DIAL	
GPO	GENERAL POWER OUTLET - DOUBLE 240V 10AMP	
HWS	HOT WATER SERVICE - 50L, DRIP TRAY WITH ENCLOSED DRAINAGE TO BELOW FLOOR LEVEL	
ISW	HWS ISOLATING SWITCH	
KS	KITCHEN SINK - STAINLESS STEEL SINK, TAP & MIXER	
LSA	LIGHT SWITCH - AUTOMATIC, MANUAL, OFF	
LSS	LIGHT SWITCH - SINGLE SWITCH	
M	MIRROR - 800mm CLEAR ABOVE FFL, 1000mm H x 500mm W	
MSS	MASTER SWITCH - MASTER CONTROL SWITCH FOR HWS & ZIP	
MW	MESH WINDOW - DOUBLE HUNG FLYSCREEN MESH	
PDT	PENDANT POWER - CEILING MOUNTED	
PTD	PAPER TOWEL DISPENSER - OPERATIVE COMPONENT 1000mm H, OR AS PER AS1428.1	
RS	ROLLER SHUTTER - MOUNTED TO STEEL FRAME, INTERNAL TO KITCHEN, ROLLERS ENCLOSED IN BULKHEAD WITH ACCESS PANELS FOR MAINTENANCE	
SH4T	FIXED SHELVING - 450mm DEEP	
SK	VINYL SKIRTING - COVED 150mm HIGH	
SPD	SOAP DISPENSER - OPERATIVE COMPONENT 1000mm H, OR AS PER AS1428.1	
SPO	SINGLE POWER OUTLET	
SSB	STAINLESS STEEL BENCH - FIXED TO FLOORING	
TMS	HOT WATER TIMER SWITCH - ACTIVATES THE ZIP & HWS OUTSIDE TYPICAL SCHOOL HOURS	
TMV	THERMOSTATIC MIXING VALVE - AQUABLEND 1500 & WALL MOUNTED LOCKABLE STAINLESS STEEL CONTROL BOX, SHOWN 300mm W x 300mm H x 75mm D	
WB	WIRE BASKET DRAWER - MOUNTED UNDER BENCH	
ZIP	ZIP BOIL - BOILER / CHILLER / FILTER UNIT	
ZS	ZIP BOIL - SPOUT HARDWARE	

SCALE: 1:5

| REV | DATE | COMMENTS

PROJECT: TEMPORARY O'CONNELL STREET PRIMARY SCHOOL

CLIENT: DEPARTMENT OF EDUCATION

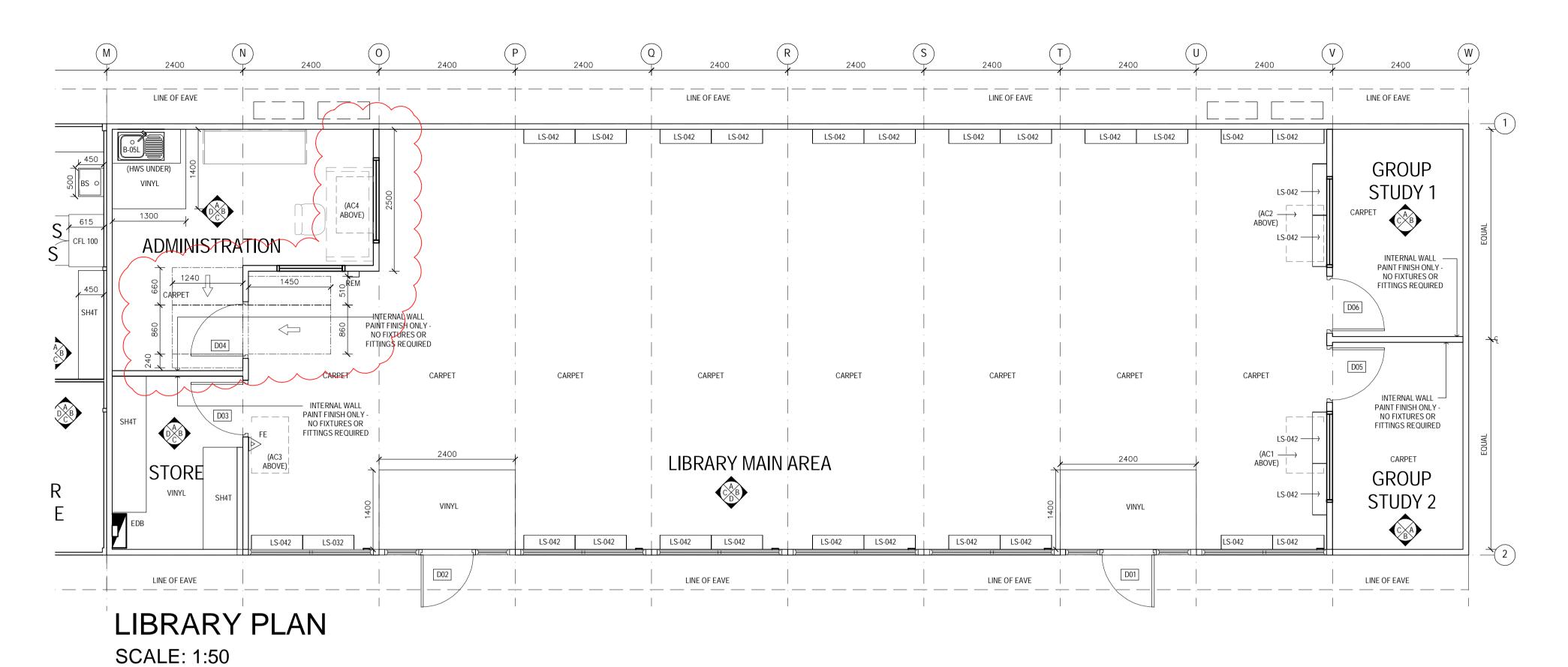
LOT 6 DP1182647

DRAWING: FOOD SERVICES - KITCHEN STORE INTERNAL ELEVATIONS AND KITCHEN DETAILS

DATE: SCALES : **FEB 2017** 1:20

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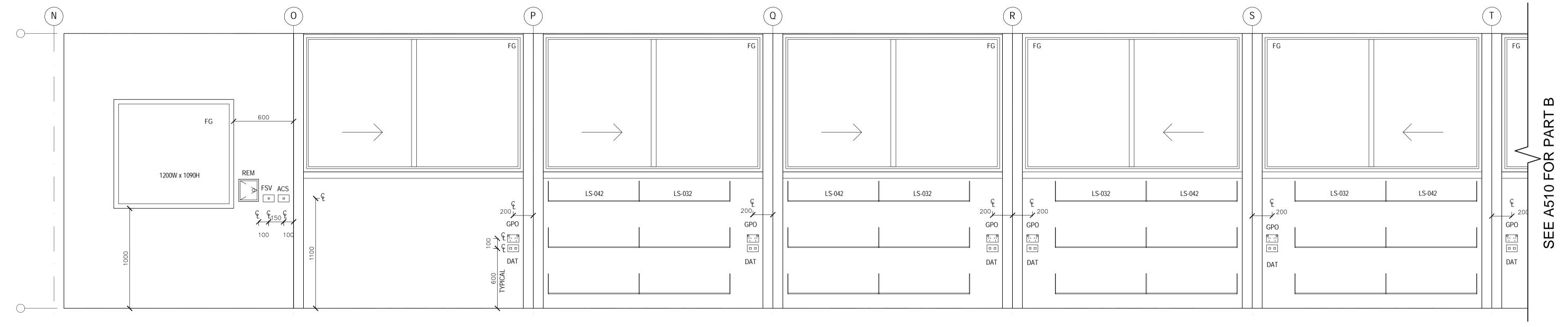
11662 WD



<u>LEGEN</u> D		
CODE	DESCRIPTION	
AC1	AIR CONDITIONING UNIT 1	
AC2	AIR CONDITIONING UNIT 2	
AC3	AIR CONDITIONING UNIT 3	
AC4	AIR CONDITIONING UNIT 4	
ACC	AIR CONDITIONING CONDENSER	
AHA	ELECTRICAL CONNECTIONS ACCESS HATCH	
B-05L	BENCH CUPBOARD WITH SK-41 LEFT HAND SINK, PROVIDED BY THE DEPARTMENT OF EDUCATION	
CFA	CEILING FAN	
CPO	CEILING POWER OUTLET - SINGLE 240V 10AMP	
DO1	EXTERNAL 920mm LEAF, 40mm SOLID CORE DOOR - KEY LOCKABLE TO MATCH DO2, DOOR SEALS AS PER THE CONTRACT NO. DECPS-14-16 STANDARD OFFER GOODS AGREEMENT	
DO2	EXTERNAL 920mm LEAF, 40mm SOLID CORE DOOR - KEY LOCKABLE TO MATCH DO1, DOOR SEALS AS PER THE CONTRACT NO. DECPS-14-16 STANDARD OFFER GOODS AGREEMENT	
DO3	INTERNAL 920mm LEAF, 35mm SOLID CORE DOOR - KEY LOCKABLE, 20mm UNDERCUT FOR VENTILATION	
DO4	INTERNAL 920mm LEAF, 35mm SOLID CORE DOOR - KEY LOCKABLE, 20mm UNDERCUT FOR VENTILATION	
DO5	INTERNAL 920mm LEAF, 35mm SOLID CORE DOOR - 20mm UNDERCUT FOR VENTILATION	
DO6	INTERNAL 920mm LEAF, 35mm SOLID CORE DOOR - 20mm UNDERCUT FOR VENTILATION	
EP2	LIGHT FITTING - INTERNAL	
ESD	ELECTRICAL SERVICES DUCTING	
FASF	VENTILATION FAN - OPERATED VIA AIR CONDITIONING SWITCH	
FE	FIRE EXTINGUISHER - TYPE E, 3.5KG, AS PER AS2444, MOUNTED 1200mm TO CENTRE OF HOOK OR HANDLE	
HWS HOT	WATER SERVICE - 25L, INSTALLED INSIDE JOINERY CUPBOARD, UNDER THE BASIN	
LS-032	SHELVING - WALL FIXED, STARTING BAY, PROVIDED BY THE DEPARTMENT OF EDUCATION	
LS-042	SHELVING - WALL FIXED, ADD ON BAY, PROVIDED BY THE DEPARTMENT OF EDUCATION	
PIR-E	PASSIVE INFRARED MOVEMENT DETECTOR - EXTERNAL 90° ADJUSTABLE, STEEL FRAME MOUNTED	
SH4T	FIXED SHELVING - 600mm DEEP	
SSC	SUN SCREEN - FITTED EXTERNALLY TO UNDERSIDE OF EAVE	
V	LIGHT FITTINGS EXTERNAL	

#### <u>NOTES</u>

- ALL SWITCHES, FIXTURES & FITTINGS ARE TO BE INSTALLED AS PER
- RELEVANT SECTIONS OF AS1428.1-2009
   ALL ELECTRICAL APPLIANCES SHALL BE INSTALLED TO RELEVANT
- SECTIONS OF DAMP AREAS AS/NZS 3000
   APPROPRIATE SIGNAGE RELEVANT TO ALL WORKS ARE TO BE INCLUDED
- & ARE TO COMPLY TO AS1428.1-2009
- ALL DIMENSIONS CLEAR REFER TO THE FACE OF THE FINAL FINISHED
- CEILING LIGHTING AND FAN TO BE ACTIVATED BY A CEILING SENSOR, SET TO A TIMER WITH A DURATION AS AGREED TO BY THE CLIENT



# MAIN LIBRARY ELEVATION A - PART A

SCALE: 1:20



REV | DATE | COMMENTS

A 20/02/2017 PRELIMINARY ISSUE

B 24/02/2017 PRELIMINARY ISSUE

PB GS GG GS PRIMARY SCHOOL

DP1182647

CLIENT: DEPARTMENT OF EDUCATION

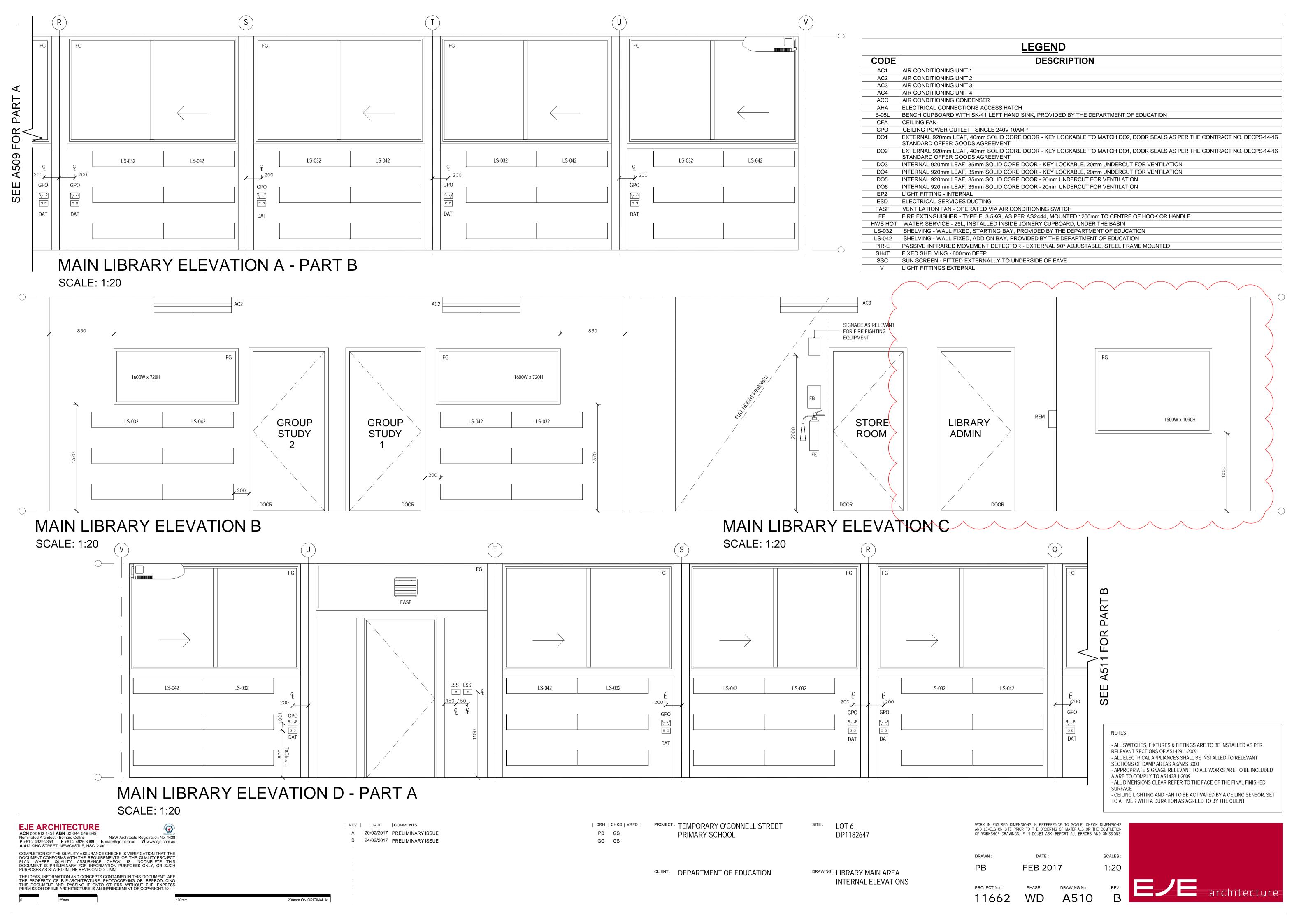
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AND INTERNAL ELEVATIONS

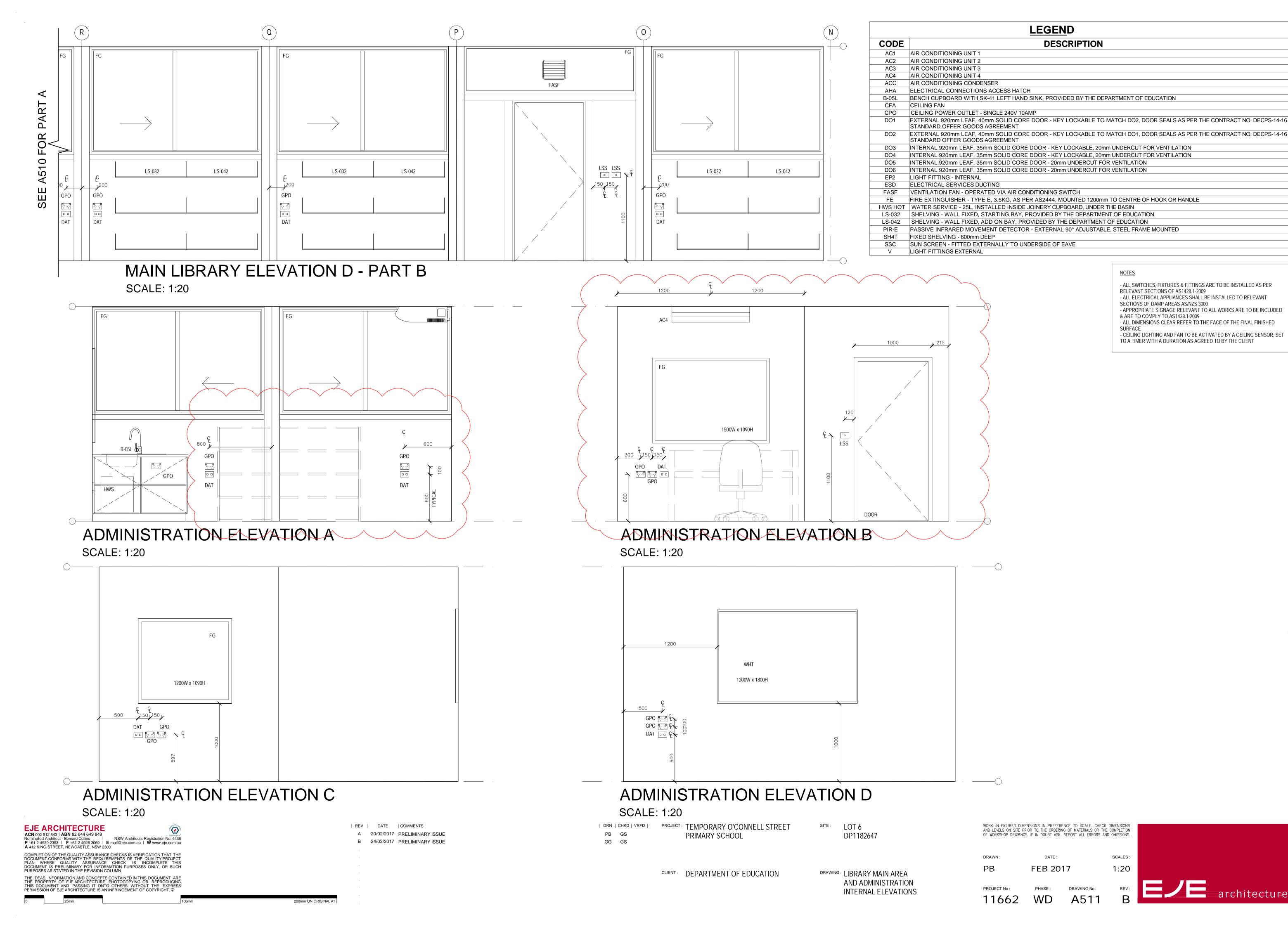
WORK IN FIGURED DIMENSIONS IN PREFERENCE TO SCALE. CHECK DIMENSIONS AND LEVELS ON SITE PRIOR TO THE ORDERING OF MATERIALS OR THE COMPLETION OF WORKSHOP DRAWINGS. IF IN DOUBT ASK. REPORT ALL ERRORS AND OMISSIONS.

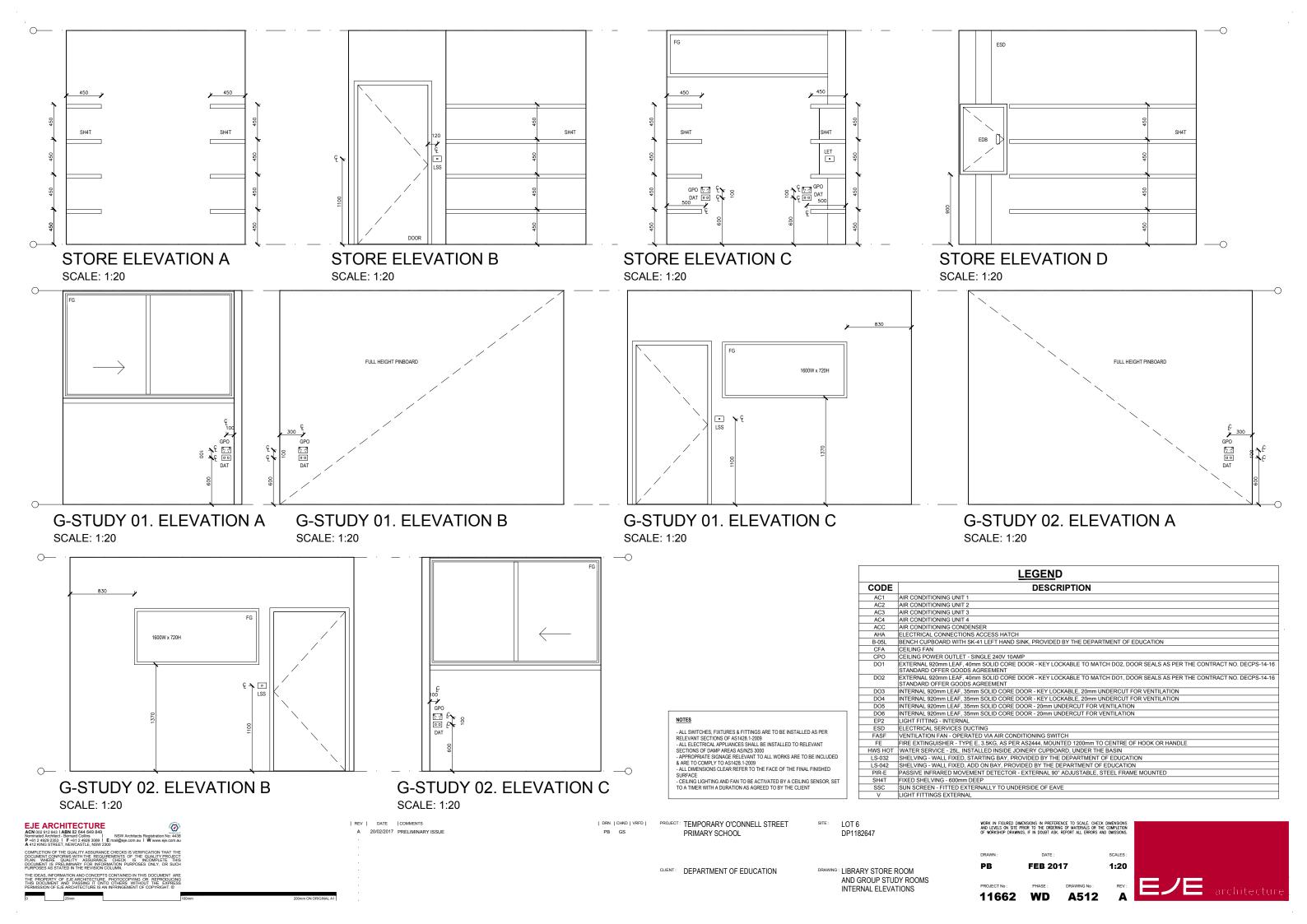
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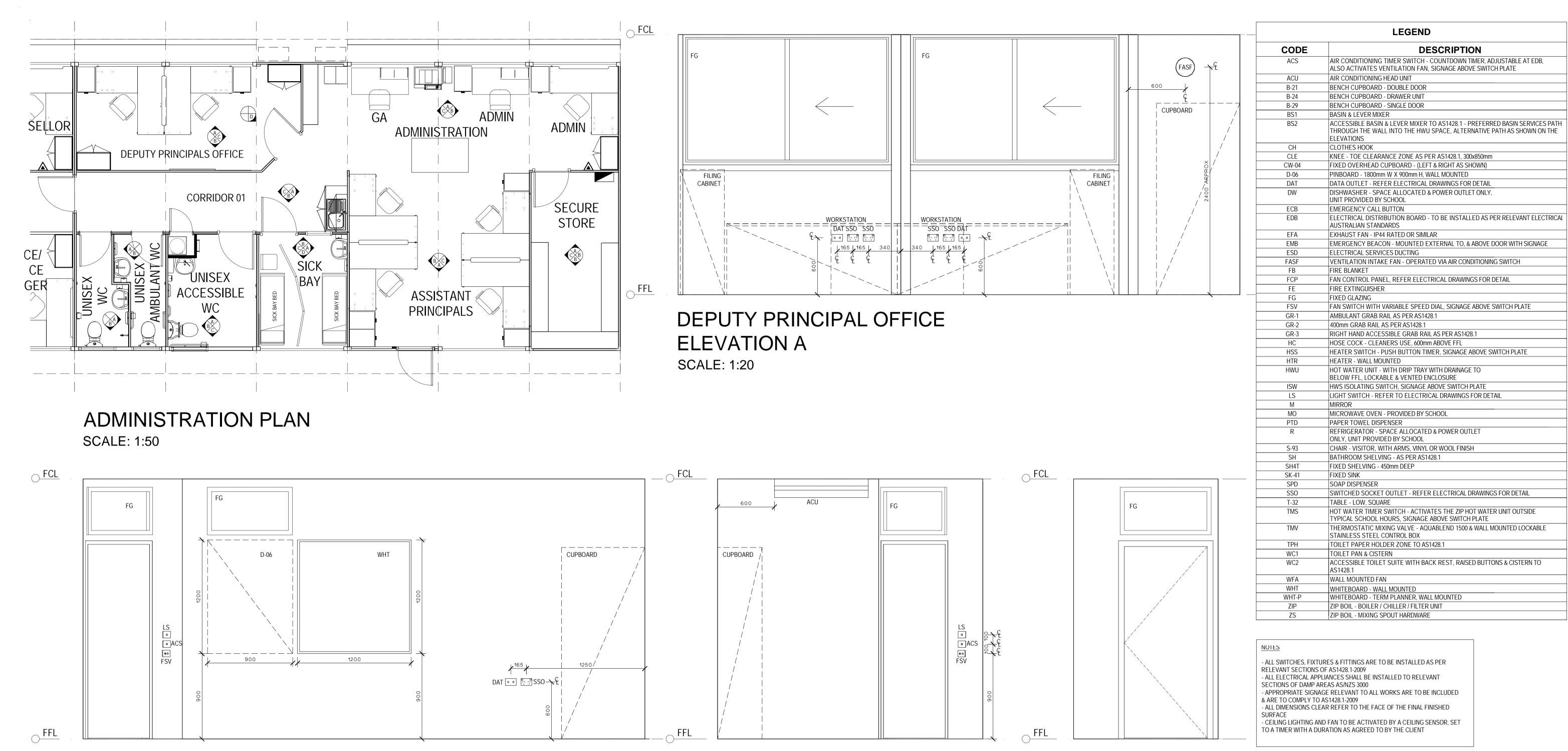
PB FEB 2017 1:20











DEPUTY PRINCIPAL OFFICE **ELEVATION B** 

SCALE: 1:20

DEPUTY PRINCIPAL OFFICE ELEVATION C

SCALE: 1:20

DEPUTY PRINCIPAL OFFICE ELEVATION D

SCALE: 1:20

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Nominated Architect - Bernard Collins | NSW Architects Registration No: 4438
P +61 2 4929 2353 | F +61 2 4926 3069 | E mail@eje.com.au | W www.eje.com.au COMPLETION OF THE QUALITY ASSURANCE CHECKS IS VERIFICATION THAT THE DOCUMENT CONFORMS WITH THE REQUIREMENTS OF THE QUALITY PROJECT PLAN. WHERE QUALITY ASSURANCE CHECK IS INCOMPLETE THIS DOCUMENT IS PRELIMINARY FOR INFORMATION PURPOSES ONLY, OR SUCH PURPOSES AS STATED IN THE REVISION COLUMN. THE IDEAS, INFORMATION AND CONCEPTS CONTAINED IN THIS DOCUMENT ARE THE PROPERTY OF EJE ARCHITECTURE. PHOTOCOPYING OR REPRODUCING THIS DOCUMENT AND PASSING IT ONTO OTHERS WITHOUT THE EXPRESS

A 01/03/2017 PRELIMINARY ISSUE

PROJECT: TEMPORARY O'CONNELL STREET PRIMARY SCHOOL

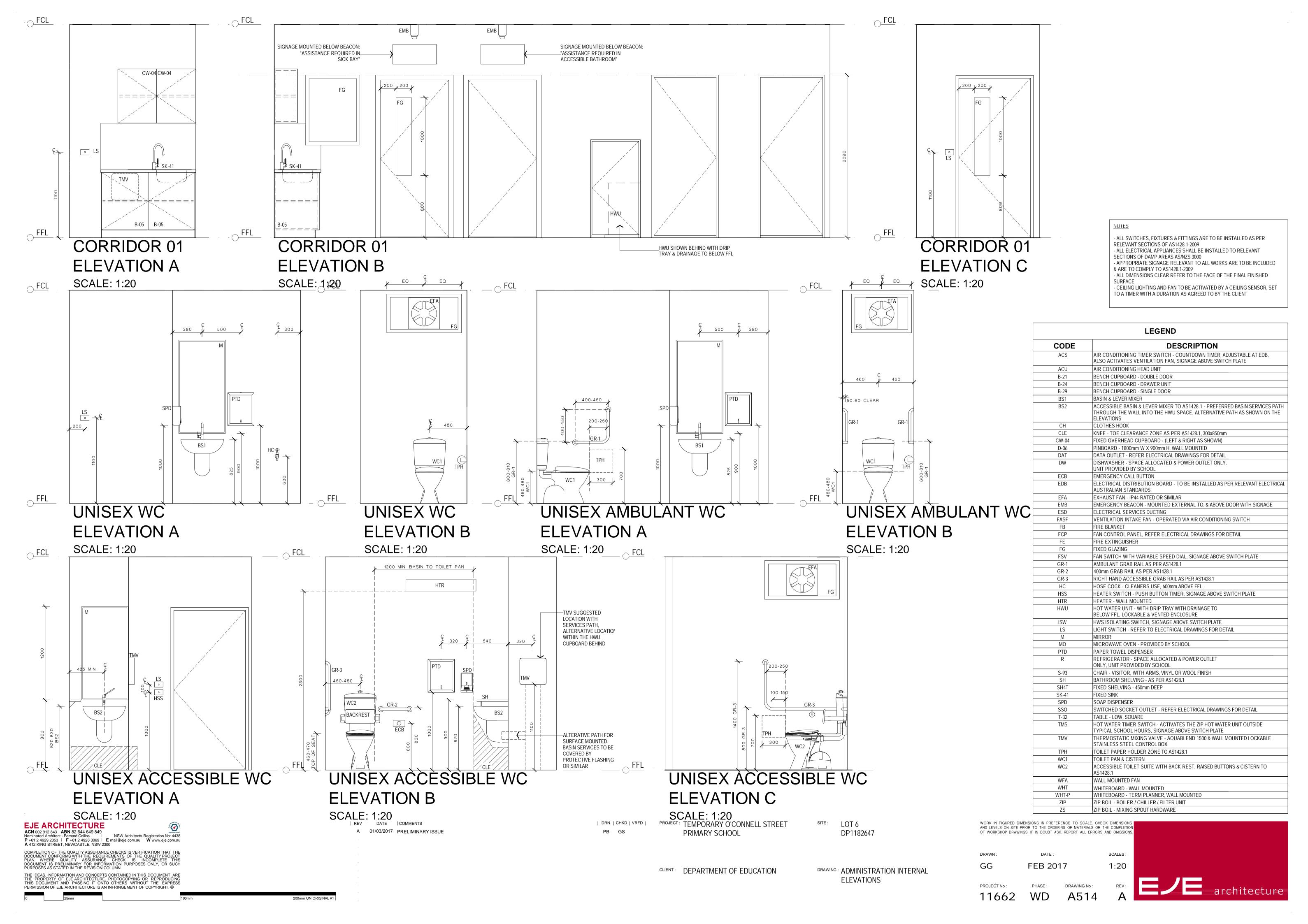
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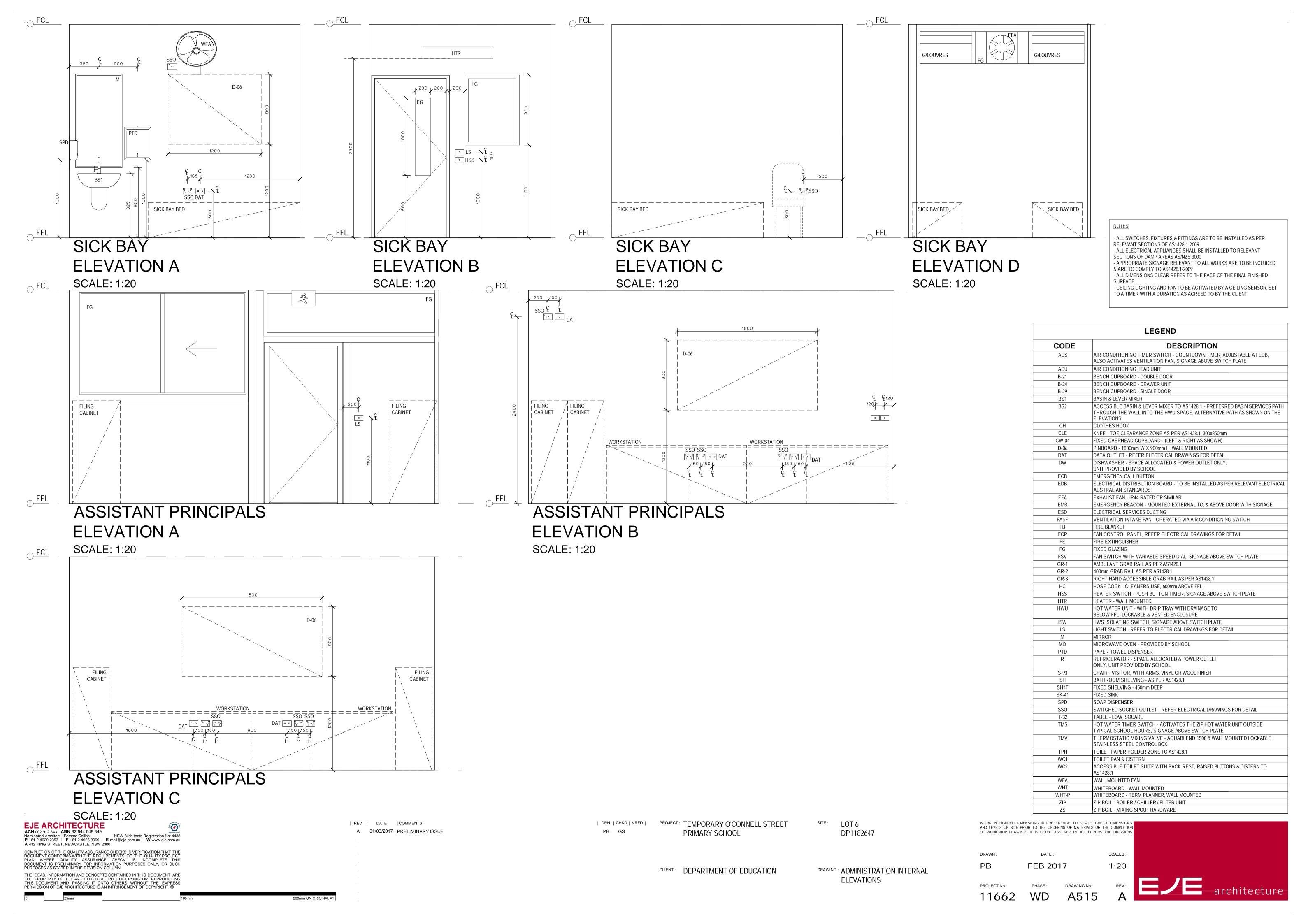
CLIENT: DEPARTMENT OF EDUCATION

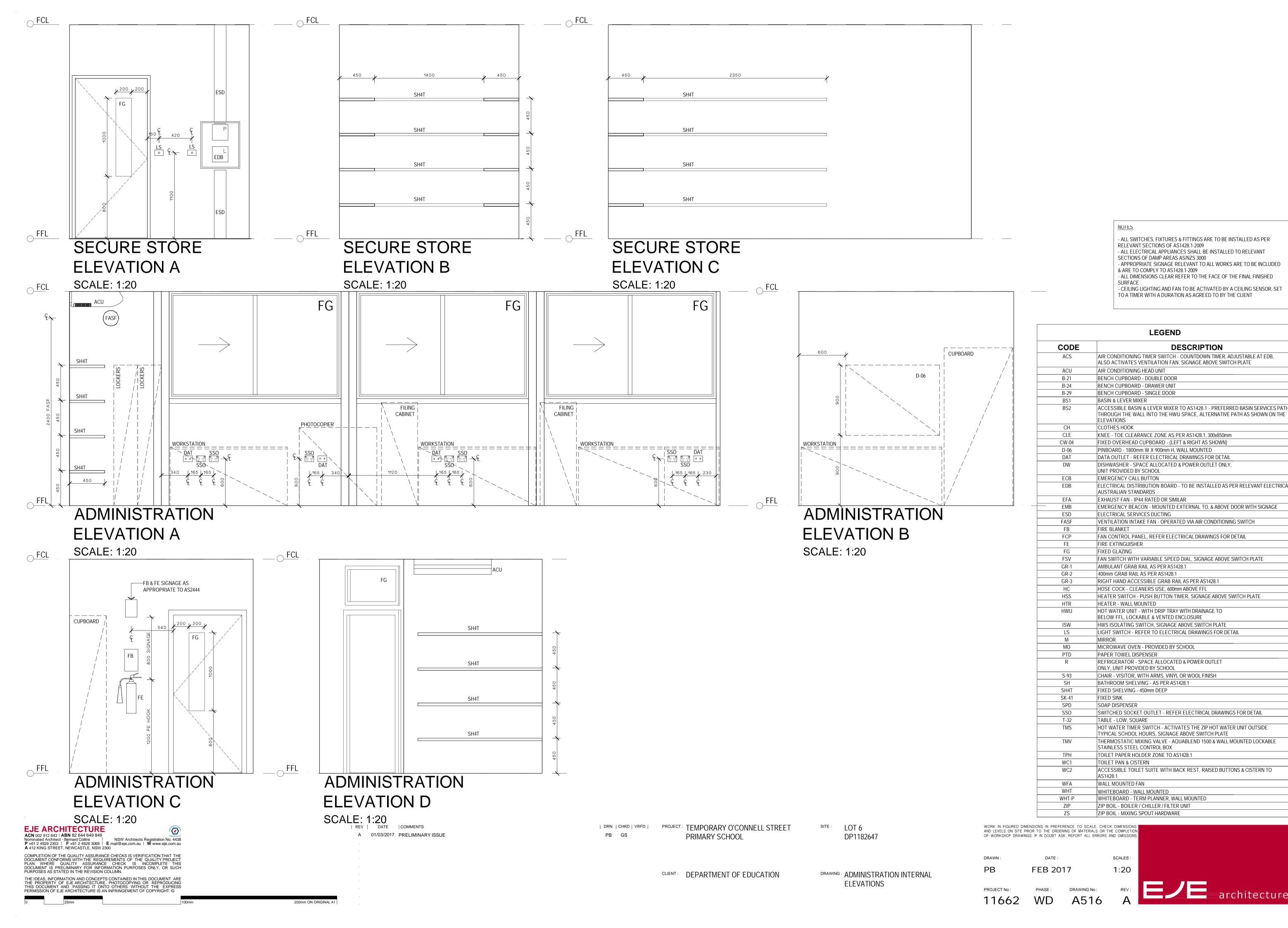
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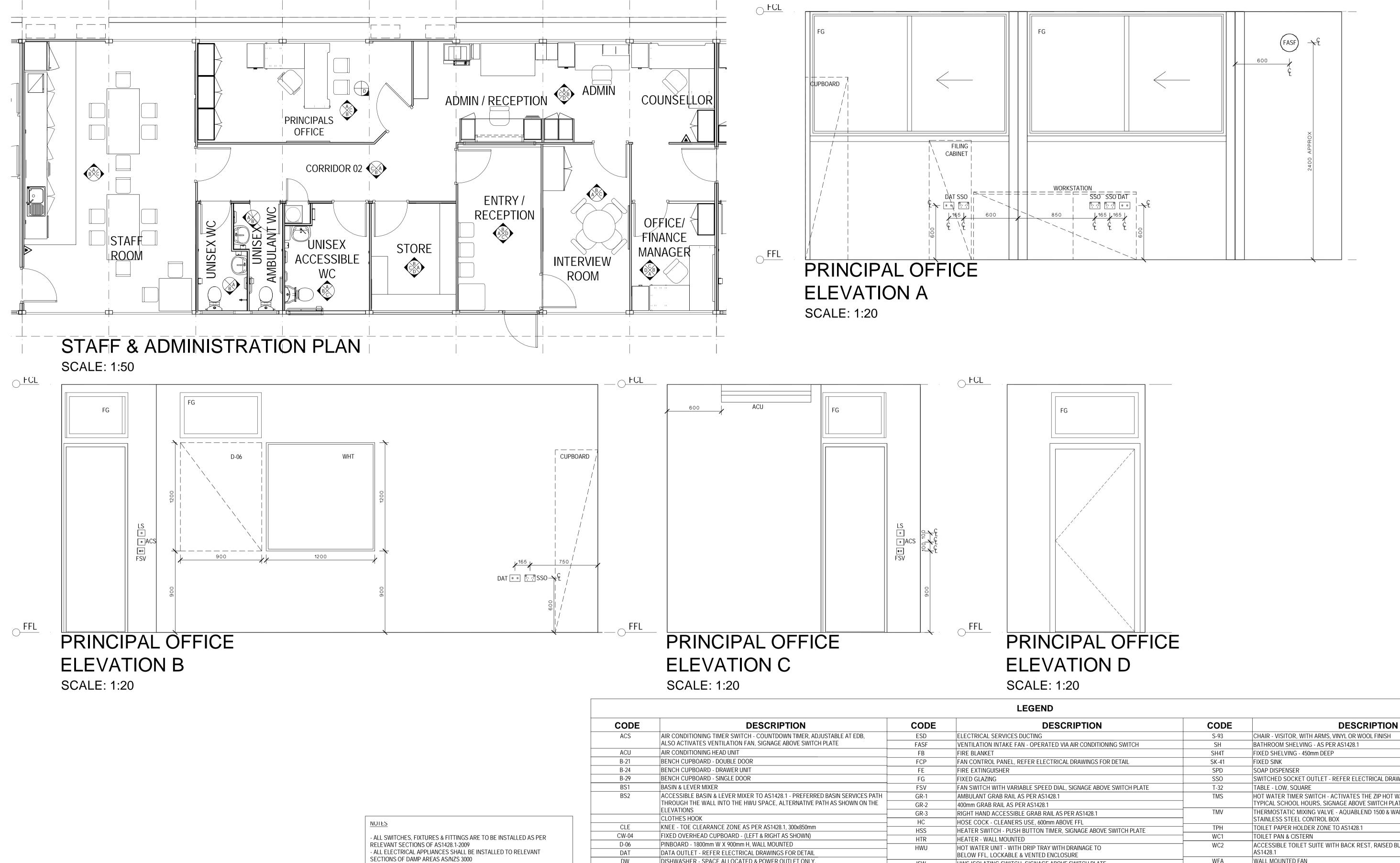
DRAWING: ADMINISTRATION PLANS AND INTERNAL ELEVATIONS











		ALSO ACTIVATES VENTILATION FAIN, SIGNAGE ABOVE SWITCH PLATE	FASF	VENTILATION INTAKE FAN - OPERATED VIA AIR CONDITIONING SWITCH	SH	BATHROOM SHELVING - AS PER AS1428.1
	ACU	AIR CONDITIONING HEAD UNIT	FB	FIRE BLANKET	SH4T	FIXED SHELVING - 450mm DEEP
	B-21	BENCH CUPBOARD - DOUBLE DOOR	FCP	FAN CONTROL PANEL, REFER ELECTRICAL DRAWINGS FOR DETAIL	SK-41	FIXED SINK
	B-24	BENCH CUPBOARD - DRAWER UNIT	FE	FIRE EXTINGUISHER	SPD	SOAP DISPENSER
	B-29	BENCH CUPBOARD - SINGLE DOOR	FG	FIXED GLAZING	SSO	SWITCHED SOCKET OUTLET - REFER ELECTRICAL DRAWINGS FOR DETAIL
NOIES	BS1	BASIN & LEVER MIXER	FSV	FAN SWITCH WITH VARIABLE SPEED DIAL, SIGNAGE ABOVE SWITCH PLATE	T-32	TABLE - LOW, SQUARE
	BS2	ACCESSIBLE BASIN & LEVER MIXER TO AS1428.1 - PREFERRED BASIN SERVICES PATH	GR-1	AMBULANT GRAB RAIL AS PER AS1428.1	TMS	HOT WATER TIMER SWITCH - ACTIVATES THE ZIP HOT WATER UNIT OUTSIDE
		THROUGH THE WALL INTO THE HWU SPACE, ALTERNATIVE PATH AS SHOWN ON THE	GR-2	400mm GRAB RAIL AS PER AS1428.1		TYPICAL SCHOOL HOURS, SIGNAGE ABOVE SWITCH PLATE
		ELEVATIONS	GR-3	RIGHT HAND ACCESSIBLE GRAB RAIL AS PER AS1428.1	TMV	THERMOSTATIC MIXING VALVE - AQUABLEND 1500 & WALL MOUNTED LOCKABLE
	21.5	CLOTHES HOOK	HC	HOSE COCK - CLEANERS USE, 600mm ABOVE FFL		STAINLESS STEEL CONTROL BOX
	CLE	KNEE - TOE CLEARANCE ZONE AS PER AS1428.1, 300x850mm	HSS	HEATER SWITCH - PUSH BUTTON TIMER, SIGNAGE ABOVE SWITCH PLATE	TPH	TOILET PAPER HOLDER ZONE TO AS1428.1
- ALL SWITCHES, FIXTURES & FITTINGS ARE TO BE INSTALLED AS PER	CW-04	FIXED OVERHEAD CUPBOARD - (LEFT & RIGHT AS SHOWN)	HTR	HEATER - WALL MOUNTED	WC1	TOILET PAN & CISTERN
RELEVANT SECTIONS OF AS1428.1-2009	D-06	PINBOARD - 1800mm W X 900mm H, WALL MOUNTED	HWU	HOT WATER UNIT - WITH DRIP TRAY WITH DRAINAGE TO	WC2	ACCESSIBLE TOILET SUITE WITH BACK REST, RAISED BUTTONS & CISTERN TO
- ALL ELECTRICAL APPLIANCES SHALL BE INSTALLED TO RELEVANT	DAT	DATA OUTLET - REFER ELECTRICAL DRAWINGS FOR DETAIL	1100	BELOW FFL, LOCKABLE & VENTED ENCLOSURE		AS1428.1
SECTIONS OF DAMP AREAS AS/NZS 3000	DW	DISHWASHER - SPACE ALLOCATED & POWER OUTLET ONLY,	ISW	HWS ISOLATING SWITCH, SIGNAGE ABOVE SWITCH PLATE	WFA	WALL MOUNTED FAN
- APPROPRIATE SIGNAGE RELEVANT TO ALL WORKS ARE TO BE INCLUDED		UNIT PROVIDED BY SCHOOL	LS	LIGHT SWITCH - REFER TO ELECTRICAL DRAWINGS FOR DETAIL	WHT	WHITEBOARD - WALL MOUNTED
& ARE TO COMPLY TO AS1428.1-2009 - ALL DIMENSIONS CLEAR REFER TO THE FACE OF THE FINAL FINISHED	ECB	EMERGENCY CALL BUTTON	M	MIRROR	WHT-P	WHITEBOARD - TERM PLANNER, WALL MOUNTED
SURFACE - CEILING LIGHTING AND FAN TO BE ACTIVATED BY A CEILING SENSOR, SET TO A TIMER WITH A DURATION AS AGREED TO BY THE CLIENT	EDB	EDB ELECTRICAL DISTRIBUTION BOARD - TO BE INSTALLED AS PER RELEVANT ELECTRICAL	MO	MICROWAVE OVEN - PROVIDED BY SCHOOL	ZIP	ZIP BOIL - BOILER / CHILLER / FILTER UNIT
	AUSTRALIAN ST	AUSTRALIAN STANDARDS —			ZS	ZIP BOIL - MIXING SPOUT HARDWARE
	EFA	EXHAUST FAN - IP44 RATED OR SIMILAR	PTD	PAPER TOWEL DISPENSER	_	
	EMB	EMERGENCY BEACON - MOUNTED EXTERNAL TO, & ABOVE DOOR WITH SIGNAGE	R	REFRIGERATOR - SPACE ALLOCATED & POWER OUTLET ONLY, UNIT PROVIDED BY SCHOOL		

**EJE ARCHITECTURE** ACN 002 912 843 | ABN 82 644 649 849
Nominated Architect - Bernard Collins | NSW Architects Registration No: 4438
P +61 2 4929 2353 | F +61 2 4926 3069 | E mail@eje.com.au | W www.eje.com.au

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PB GS

| DRN | CHKD | VRFD | PROJECT: TEMPORARY O'CONNELL STREET PRIMARY SCHOOL

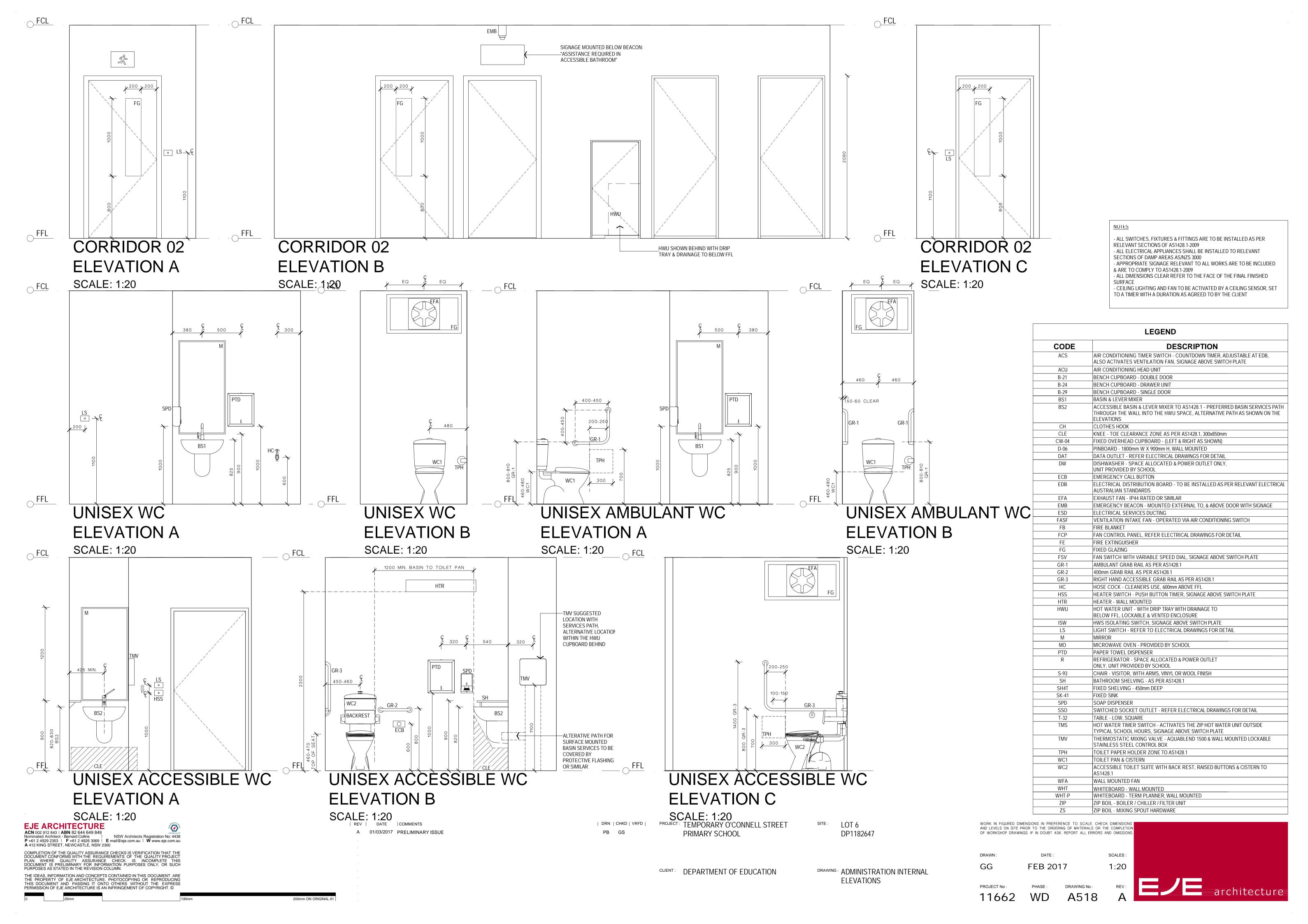
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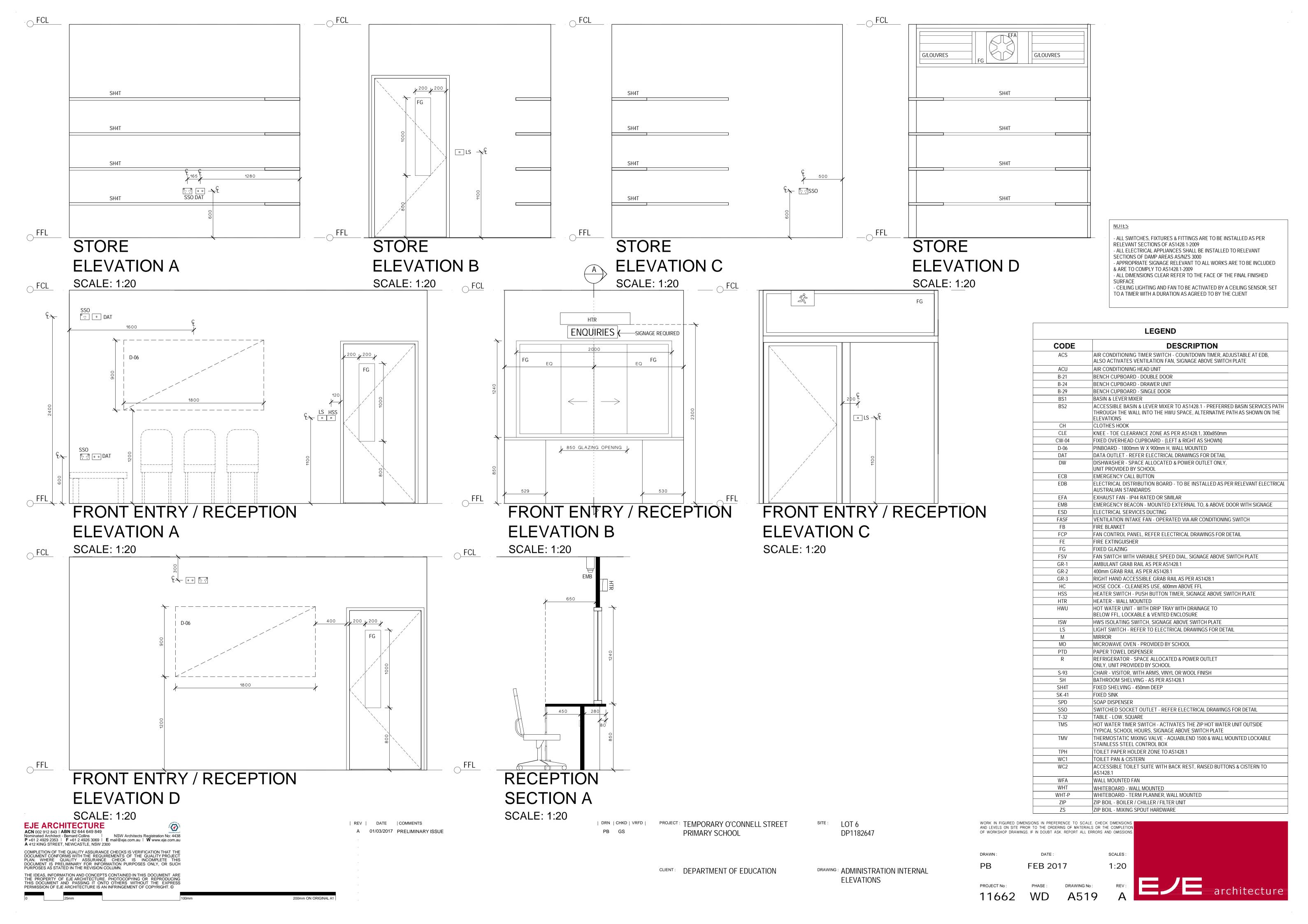
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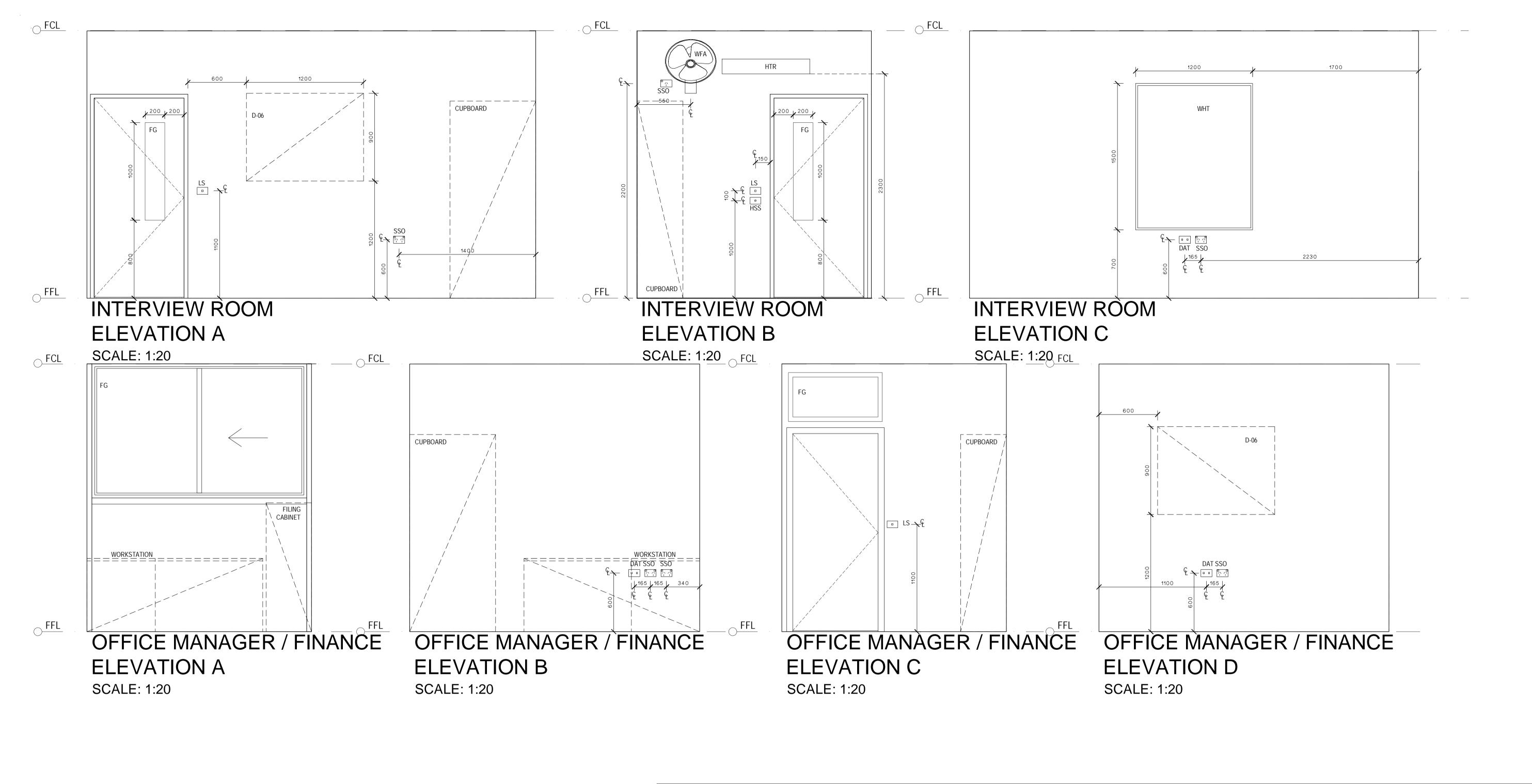
CLIENT: DEPARTMENT OF EDUCATION DRAWING: ADMINISTRATION PLANS AND INTERNAL ELEVATIONS AND LEVELS ON SITE PRIOR TO THE ORDERING OF MATERIALS OR THE COMPLETION OF WORKSHOP DRAWINGS. IF IN DOUBT ASK. REPORT ALL ERRORS AND OMISSIONS. FEB 2017 1:50, 1;20 GG

WORK IN FIGURED DIMENSIONS IN PREFERENCE TO SCALE. CHECK DIMENSIONS









	LEGEND						
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION		
ACS	AIR CONDITIONING TIMER SWITCH - COUNTDOWN TIMER, ADJUSTABLE AT EDB,	ESD	ELECTRICAL SERVICES DUCTING	S-93	CHAIR - VISITOR, WITH ARMS, VINYL OR WOOL FINISH		
	ALSO ACTIVATES VENTILATION FAN, SIGNAGE ABOVE SWITCH PLATE	FASF	VENTILATION INTAKE FAN - OPERATED VIA AIR CONDITIONING SWITCH	SH	BATHROOM SHELVING - AS PER AS1428.1		
ACU	AIR CONDITIONING HEAD UNIT	FB	FIRE BLANKET	SH4T	FIXED SHELVING - 450mm DEEP		
B-21	BENCH CUPBOARD - DOUBLE DOOR	FCP	FAN CONTROL PANEL, REFER ELECTRICAL DRAWINGS FOR DETAIL	SK-41	FIXED SINK		
B-24	BENCH CUPBOARD - DRAWER UNIT	FE	FIRE EXTINGUISHER	SPD	SOAP DISPENSER		
B-29	BENCH CUPBOARD - SINGLE DOOR	FG	FIXED GLAZING	SSO	SWITCHED SOCKET OUTLET - REFER ELECTRICAL DRAWINGS FOR DET		
BS1	BASIN & LEVER MIXER	FSV	FAN SWITCH WITH VARIABLE SPEED DIAL, SIGNAGE ABOVE SWITCH PLATE	T-32	TABLE - LOW, SQUARE		
BS2	ACCESSIBLE BASIN & LEVER MIXER TO AS1428.1 - PREFERRED BASIN SERVICES PATH	GR-1	AMBULANT GRAB RAIL AS PER AS1428.1	TMS	HOT WATER TIMER SWITCH - ACTIVATES THE ZIP HOT WATER UNIT OUTSI TYPICAL SCHOOL HOURS, SIGNAGE ABOVE SWITCH PLATE  THERMOSTATIC MIXING VALVE - AQUABLEND 1500 & WALL MOUNTED LOC STAINLESS STEEL CONTROL BOX		
	THROUGH THE WALL INTO THE HWU SPACE, ALTERNATIVE PATH AS SHOWN ON THE	GR-2	400mm GRAB RAIL AS PER AS1428.1				
	ELEVATIONS	GR-3	RIGHT HAND ACCESSIBLE GRAB RAIL AS PER AS1428.1	TMV			
	CLOTHES HOOK	HC	HOSE COCK - CLEANERS USE, 600mm ABOVE FFL				
CLE	KNEE - TOE CLEARANCE ZONE AS PER AS1428.1, 300x850mm	HSS	HEATER SWITCH - PUSH BUTTON TIMER, SIGNAGE ABOVE SWITCH PLATE	TPH	TOILET PAPER HOLDER ZONE TO AS1428.1		
CW-04	FIXED OVERHEAD CUPBOARD - (LEFT & RIGHT AS SHOWN)	HTR	HEATER - WALL MOUNTED	WC1	TOILET PAN & CISTERN		
D-06	PINBOARD - 1800mm W X 900mm H, WALL MOUNTED	HWU	HOT WATER UNIT - WITH DRIP TRAY WITH DRAINAGE TO	WC2	ACCESSIBLE TOILET SUITE WITH BACK REST, RAISED BUTTONS & CISTI		
DAT	DATA OUTLET - REFER ELECTRICAL DRAWINGS FOR DETAIL	111110	BELOW FFL, LOCKABLE & VENTED ENCLOSURE		AS1428.1		
DW	DISHWASHER - SPACE ALLOCATED & POWER OUTLET ONLY,	ISW	HWS ISOLATING SWITCH, SIGNAGE ABOVE SWITCH PLATE	WFA	WALL MOUNTED FAN		
	UNIT PROVIDED BY SCHOOL	LS	LIGHT SWITCH - REFER TO ELECTRICAL DRAWINGS FOR DETAIL	WHT	WHITEBOARD - WALL MOUNTED		
ECB	EMERGENCY CALL BUTTON	M	MIRROR	WHT-P	WHITEBOARD - TERM PLANNER, WALL MOUNTED		
EDB	ELECTRICAL DISTRIBUTION BOARD - TO BE INSTALLED AS PER RELEVANT ELECTRICAL	MO	MICROWAVE OVEN - PROVIDED BY SCHOOL	ZIP	ZIP BOIL - BOILER / CHILLER / FILTER UNIT		
	AUSTRALIAN STANDARDS —	PTD	PAPER TOWEL DISPENSER	ZS	ZIP BOIL - MIXING SPOUT HARDWARE		
EFA	EXHAUST FAN - IP44 RATED OR SIMILAR	R	REFRIGERATOR - SPACE ALLOCATED & POWER OUTLET				
EMB	EMERGENCY BEACON - MOUNTED EXTERNAL TO, & ABOVE DOOR WITH SIGNAGE		ONLY, UNIT PROVIDED BY SCHOOL				

**EJE ARCHITECTURE** ACN 002 912 843 | ABN 82 644 649 849
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P +61 2 4929 2353 | F +61 2 4926 3069 | E mail@eje.com.au | W www.eje.com.au COMPLETION OF THE QUALITY ASSURANCE CHECKS IS VERIFICATION THAT THE DOCUMENT CONFORMS WITH THE REQUIREMENTS OF THE QUALITY PROJECT PLAN. WHERE QUALITY ASSURANCE CHECK IS INCOMPLETE THIS DOCUMENT IS PRELIMINARY FOR INFORMATION PURPOSES ONLY, OR SUCH PURPOSES AS STATED IN THE REVISION COLUMN. THE IDEAS, INFORMATION AND CONCEPTS CONTAINED IN THIS DOCUMENT ARE THE PROPERTY OF EJE ARCHITECTURE. PHOTOCOPYING OR REPRODUCING THIS DOCUMENT AND PASSING IT ONTO OTHERS WITHOUT THE EXPRESS PERMISSION OF EJE ARCHITECTURE IS AN INFRINGEMENT OF COPYRIGHT. ©

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TO A TIMER WITH A DURATION AS AGREED TO BY THE CLIENT

- ALL SWITCHES, FIXTURES & FITTINGS ARE TO BE INSTALLED AS PER

- APPROPRIATE SIGNAGE RELEVANT TO ALL WORKS ARE TO BE INCLUDED

- CEILING LIGHTING AND FAN TO BE ACTIVATED BY A CEILING SENSOR, SET

- ALL DIMENSIONS CLEAR REFER TO THE FACE OF THE FINAL FINISHED

- ALL ELECTRICAL APPLIANCES SHALL BE INSTALLED TO RELEVANT

RELEVANT SECTIONS OF AS1428.1-2009

SECTIONS OF DAMP AREAS AS/NZS 3000

& ARE TO COMPLY TO AS1428.1-2009

<u>NOTES</u>

| DRN | CHKD | VRFD | PROJECT: TEMPORARY O'CONNELL STREET PRIMARY SCHOOL

DRAWING: ADMINSTRATION INTERNAL CLIENT: DEPARTMENT OF EDUCATION

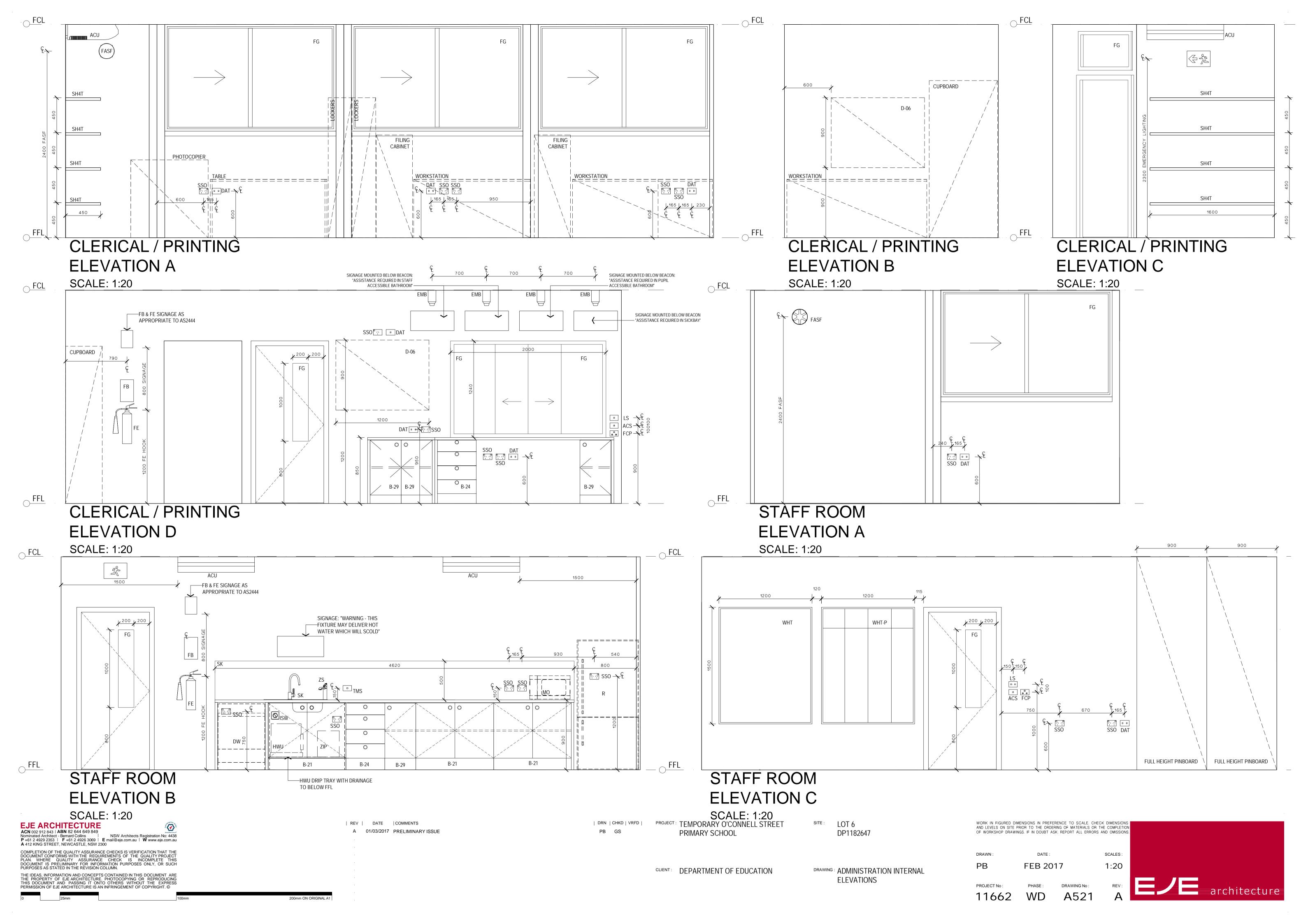
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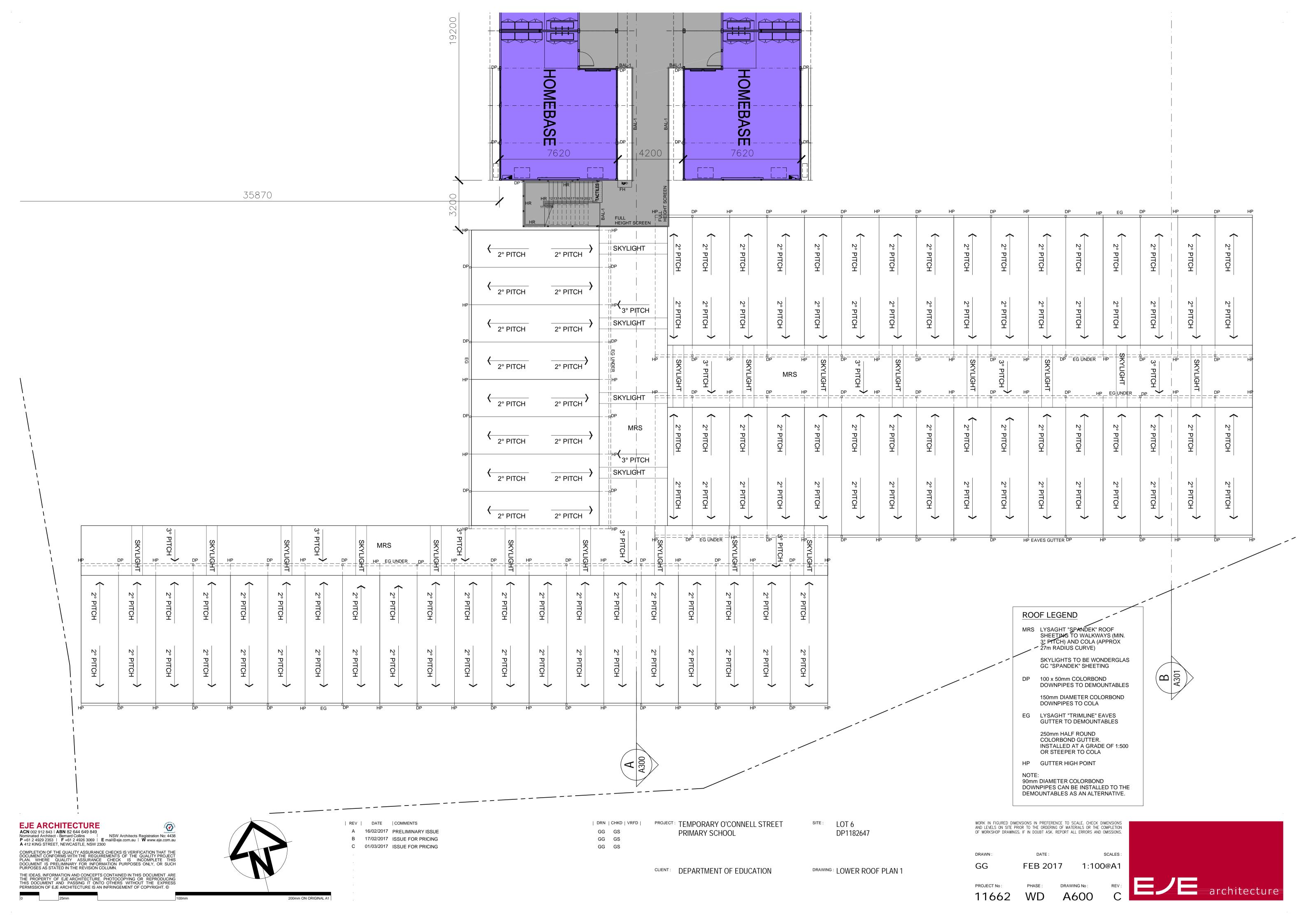
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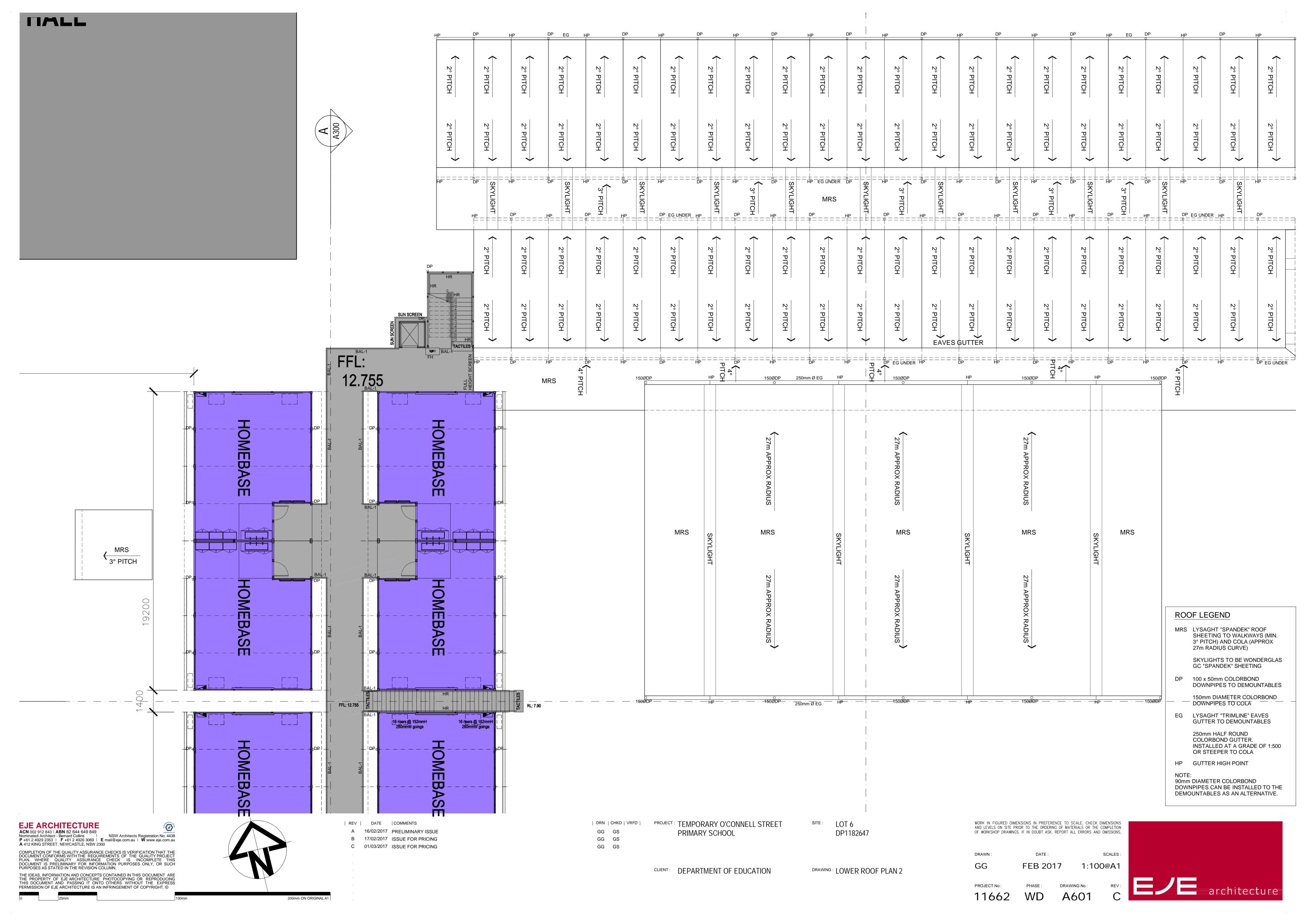
**ELEVATIONS** 

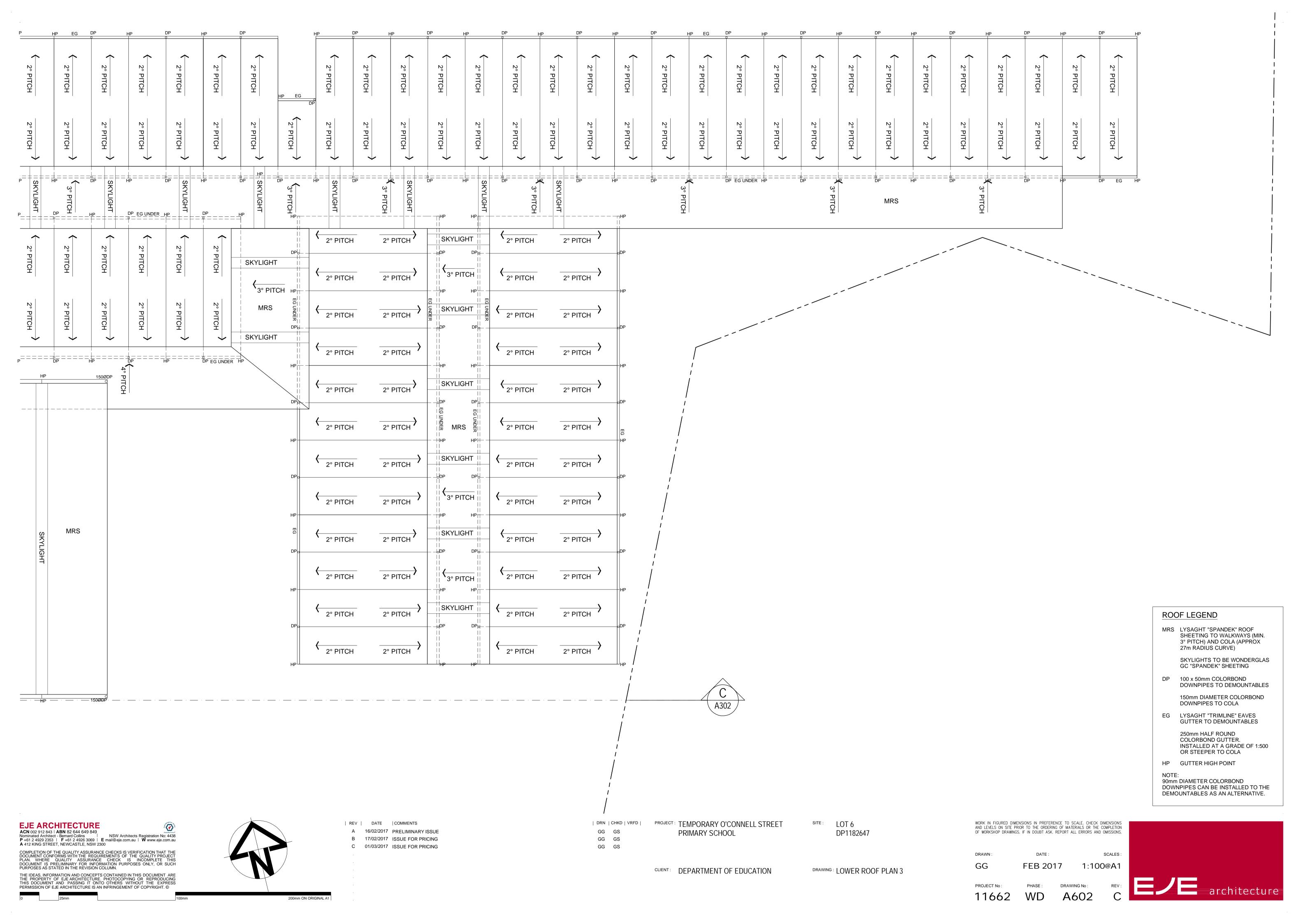
AND LEVELS ON SITE PRIOR TO THE ORDERING OF MATERIALS OR THE COMPLETION OF WORKSHOP DRAWINGS. IF IN DOUBT ASK. REPORT ALL ERRORS AND OMISSIONS. SCALES: PΒ FEB 2017 1:20 PROJECT No:

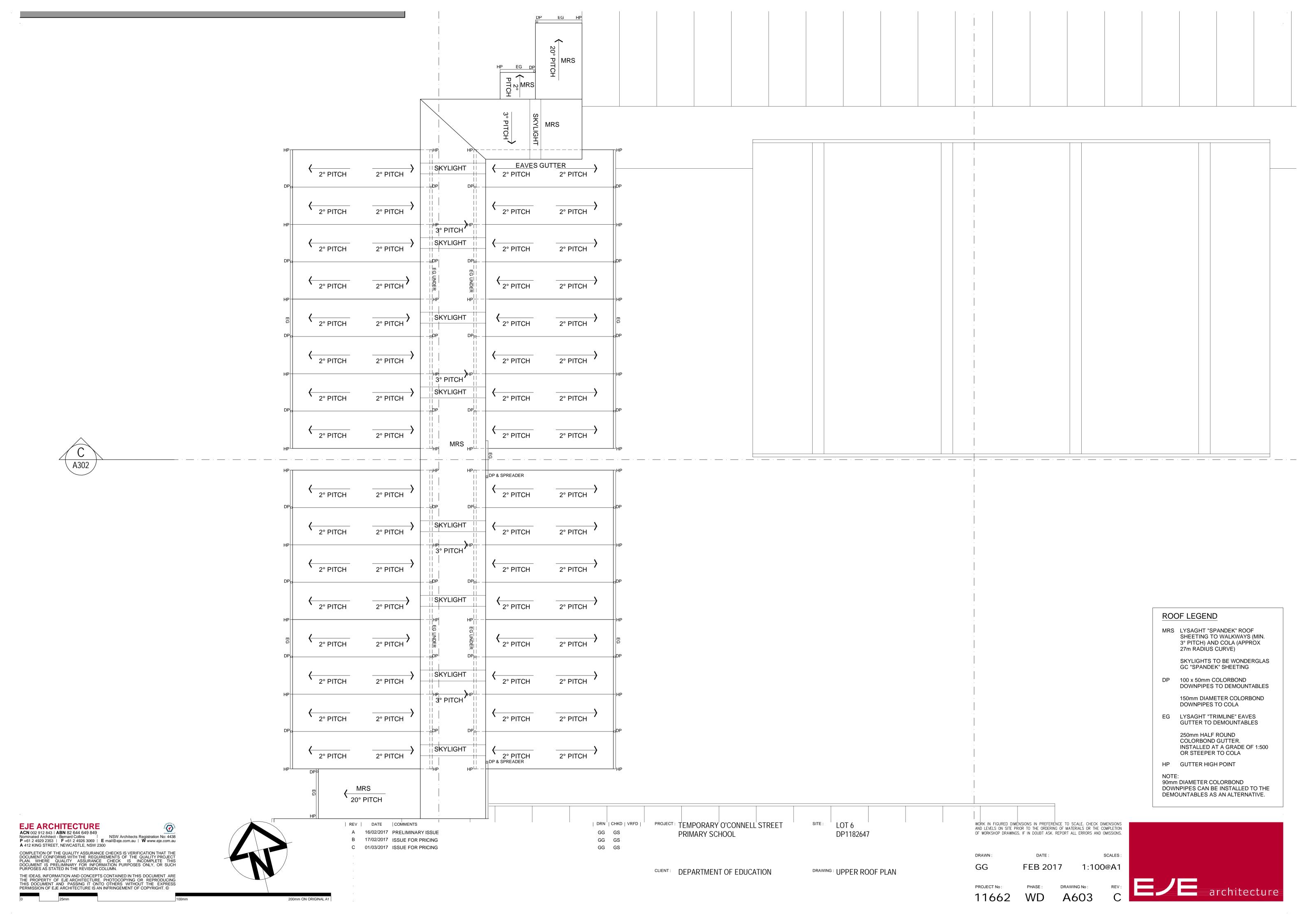
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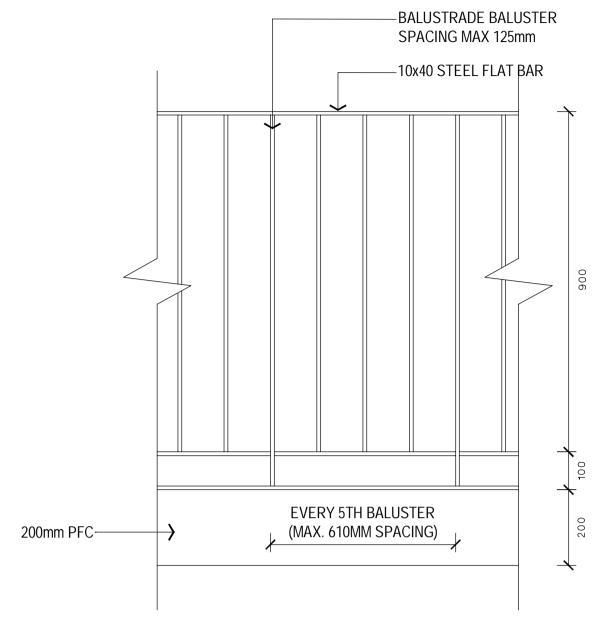




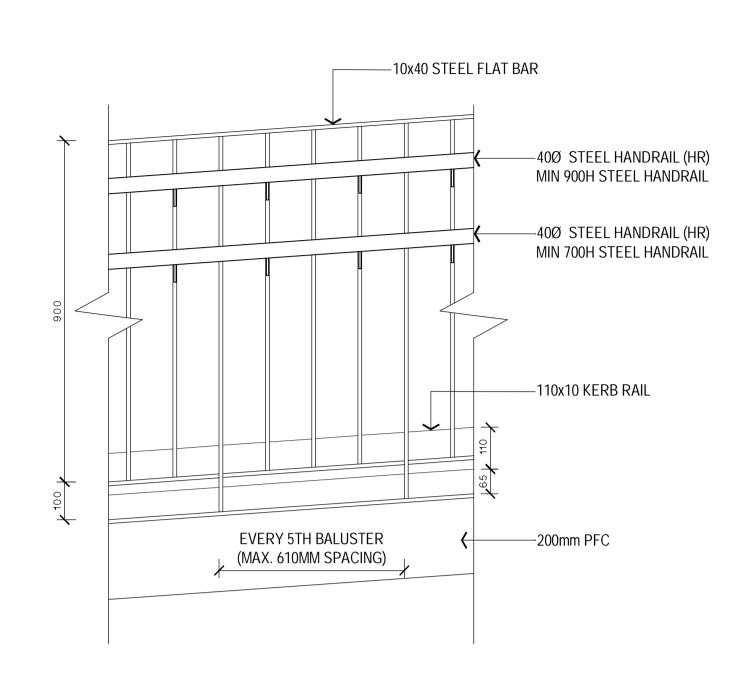




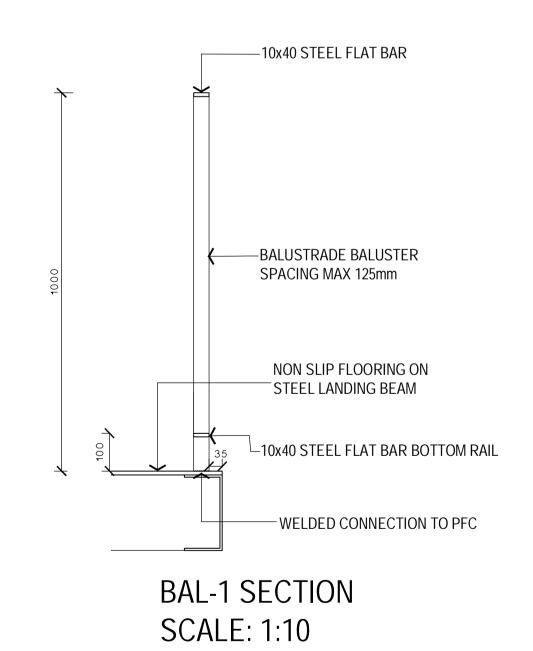


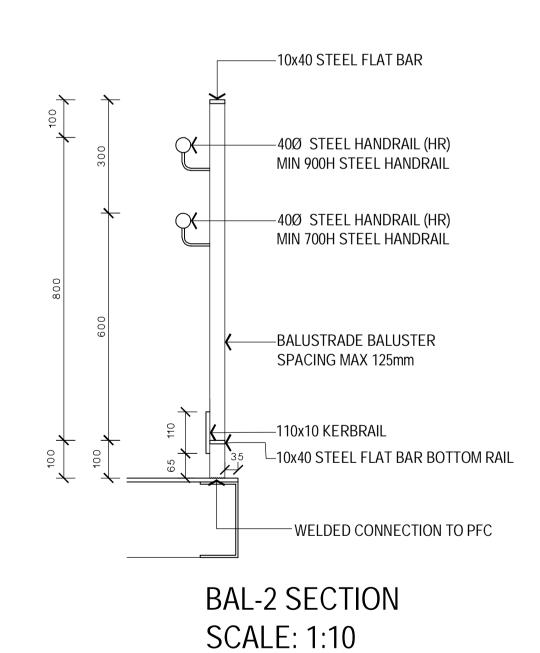


**BAL-1 ELEVATION** SCALE: 1:10



BAL-2 1 in 14 RAMP ELEVATION SCALE: 1:10







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| DRN | CHKD | VRFD | PROJECT: TEMPORARY O'CONNELL STREET PRIMARY SCHOOL

SITE: LOT 6 DP1182647

DRAWING: BALUSTRADE DETAILS

WORK IN FIGURED DIMENSIONS IN PREFERENCE TO SCALE. CHECK DIMENSIONS AND LEVELS ON SITE PRIOR TO THE ORDERING OF MATERIALS OR THE COMPLETION OF WORKSHOP DRAWINGS. IF IN DOUBT ASK. REPORT ALL ERRORS AND OMISSIONS. DRAWN: SCALES: GG FEB 2017 1:10@A1 PROJECT No: DRAWING No:

CLIENT: DEPARTMENT OF EDUCATION

11662



Our Reference: FL/128/2016
Contact: Peter Sirianni
Telephone: 02 9806 8250
Fax: 02 9806 5906

Angus Brien 215 Pacific Highway Charlestown NSW 2290

25 November 2016

#### FLOOD ENQUIRY APPLICATION

2016 / 2017

**Property Details** 

i i opoity	Dotailo
Address	24 O Connell Street, PARRAMATTA NSW 2150
	This form applies for up to three adjoining sites relating to the same development. A separate Flood Enquiry form and fee will be required for more than 3 or separate lots.

#### **Delivery Preference**

abrien@northrop.com.au

#### **Reason for Enquiry**

Flood drainage Investigation

#### **Property Type**

\*\* GST not applicable from 1 July 2013\*\*

Flooding Application - Commercial

\$468.40

**Disclaimer:** Flood levels and flood extent lines are based on current information held by Council. Council does not accept responsibility for the accuracy of this information. Any pipe sizes and location of pits and pipe lines should be confirmed by site investigation.

The flood levels shown on the back of this form are only an approximate guide and have been derived using the current computer simulated model

The information provided in this document is presented in good faith to assist the public in understanding Council's drainage requirements that apply within the Parramatta Local Government Area. It is the responsibility of each individual using this information to undertake their own checks and confirm this information prior to its use.

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Refer to back of this form for level information issued



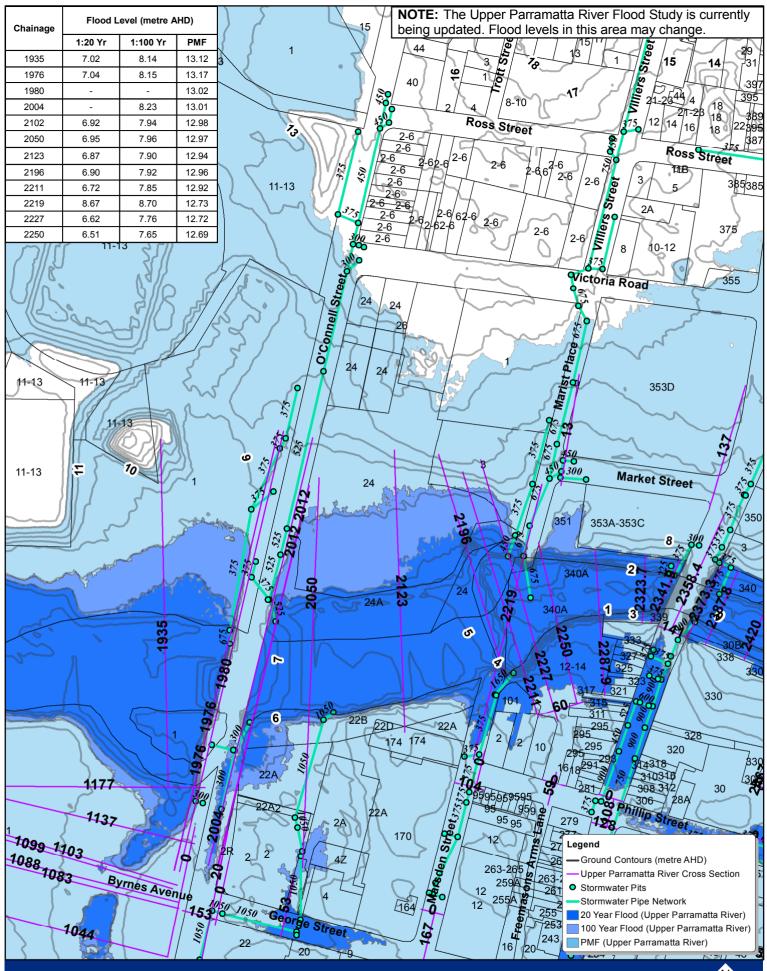


### Flood Enquiry Information Issued - 25 November 2016

Mains	stream Flooding						
	is property affected by						
24	O'Connell ST, P	☐ No					
	Floral Lo. 1		of an Art Floral Charles				
	Flood Levels	Closest Cross Sections: (Please refer to Flood Study):					
	1.20	Refer to Flood Map  Varies – RL 6.95m AHD at O'Connell St	Commonto				
	1:20 year ARI	frontage to RL 6.62m AHD at eastern	<u>Comments</u> :				
		boundary (adjacent Marsden St)	0 - 1 No. (	Man			
1:100 Year ARI	1:100 Year ARI	Varies – RL 7.96m AHD at O'Connell St	See Note on Flood / Hazard Map				
		frontage to RL 7.76m AHD at eastern					
	DME	boundary (adjacent Marsden St)  Varies – RL 13m AHD at O'Connell St					
	PIMIF	frontage to RL 12.7m AHD at 0 continents					
		boundary (adjacent Marsden St)					
$\boxtimes$	Refer to flood maps p	rovided for detailed flood levels.					
		ed from the following flood study rep	oort:				
		River Flood Study - Draft					
OPI	or r arramatta	Thron 1100a Otaay Bran					
Note:	Flood inundation can	be verified by detail survey to AHD u	indertaken by a Registered Surveyor.				
		,	, ,				
Local	Flooding						
	•	nin a Hatched Grey Area?		Yes			
		Hatched Grey Area are subjected	to flooding from the local catchment	⊠ No			
		,	to nooding from the local cateriment.	Yes			
	e property located with			No No			
			nal site drainage controls to manage	I NO			
flood	ling in the local catchr	ment.					
Is the	e property likely to be	affected by overland stormwater run	-off from the local catchment?	Yes			
	<b>Note:</b> No site inspection conducted for this assessment. Based solely on the information supplied for						
	flood enquiry applicati						
			rice Engineer for any details and requiren	nents relating to			
	elopment that is affect	•	.oo =gooo. ay ao.ao aa .oqao	reme retaining to			
uore	nopment that is alreet.	ea by local novaling.					
tibbA	ional Recommended	Actions					
			and the country of the Country of the Town Discourse	l Dl			
$\boxtimes$		to discuss the proposal to re-develo	op this site with Council's Town Planner a	na Development			
	Services Engineer.						
$\boxtimes$	The Applicant needs	to contact Council's Town Planner a	and organise a pre-lodgement meeting to	discuss any proposal to			
	redevelop this prope						
$\boxtimes$	The Applicant needs to refer to Council's Local Floodplain Risk Management policy for details relating to developing a land						
	affected by flooding.						
Defin	itions: (As per NSW	Floodplain Development Manual o	lated April 2005)				
1.			ately corresponding to mean sea level.				
2			ne occurrences of a flood as big as or larg	er than the selected			

- 2. **ARI** the long term average number of years between the occurrences of a flood as big as or larger than, the selected event.
- 3. **PMF** is the largest flood that could conceivably occur at a particular location, usually estimated from probable maximum precipitation.
- 4. **AEP** Annual Exceedance Probability is the chance of a flood of a given or larger size occurring in any one year, usually expressed as a percentage.







## City of Parramatta Council Flood Map

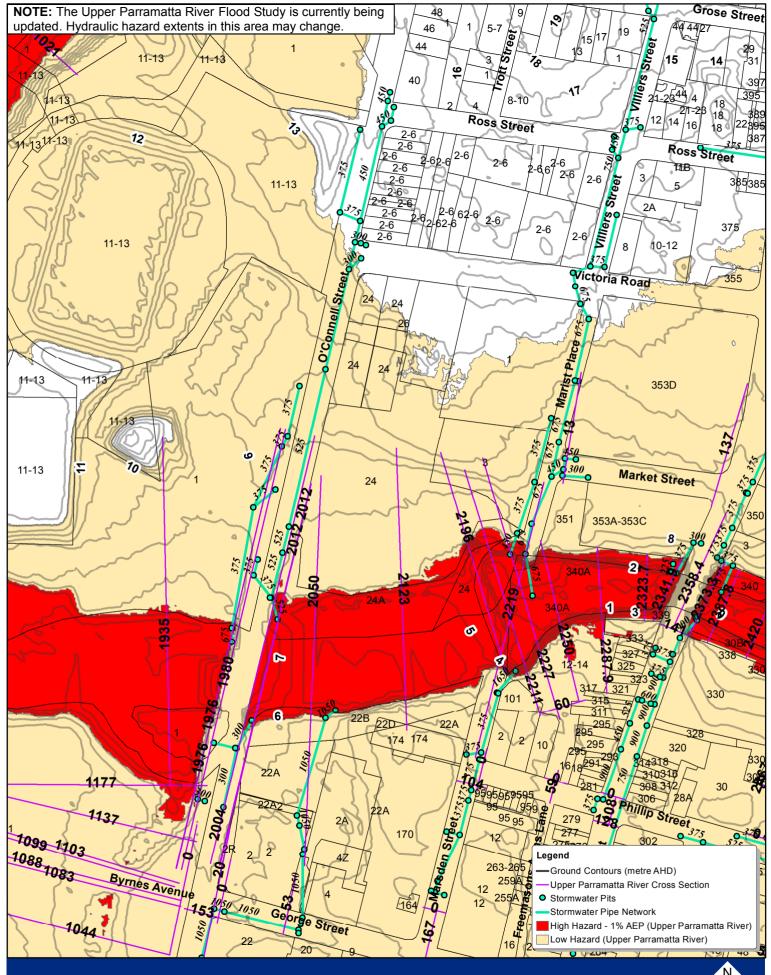


and location of pits and pipe lines should be confirmed by site investigation.

The flood levels provided are only an approximate guide and have been derived using the current computer simulated model.

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# City of Parramatta Council Hydraulic Hazard Map



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24/11/2016

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