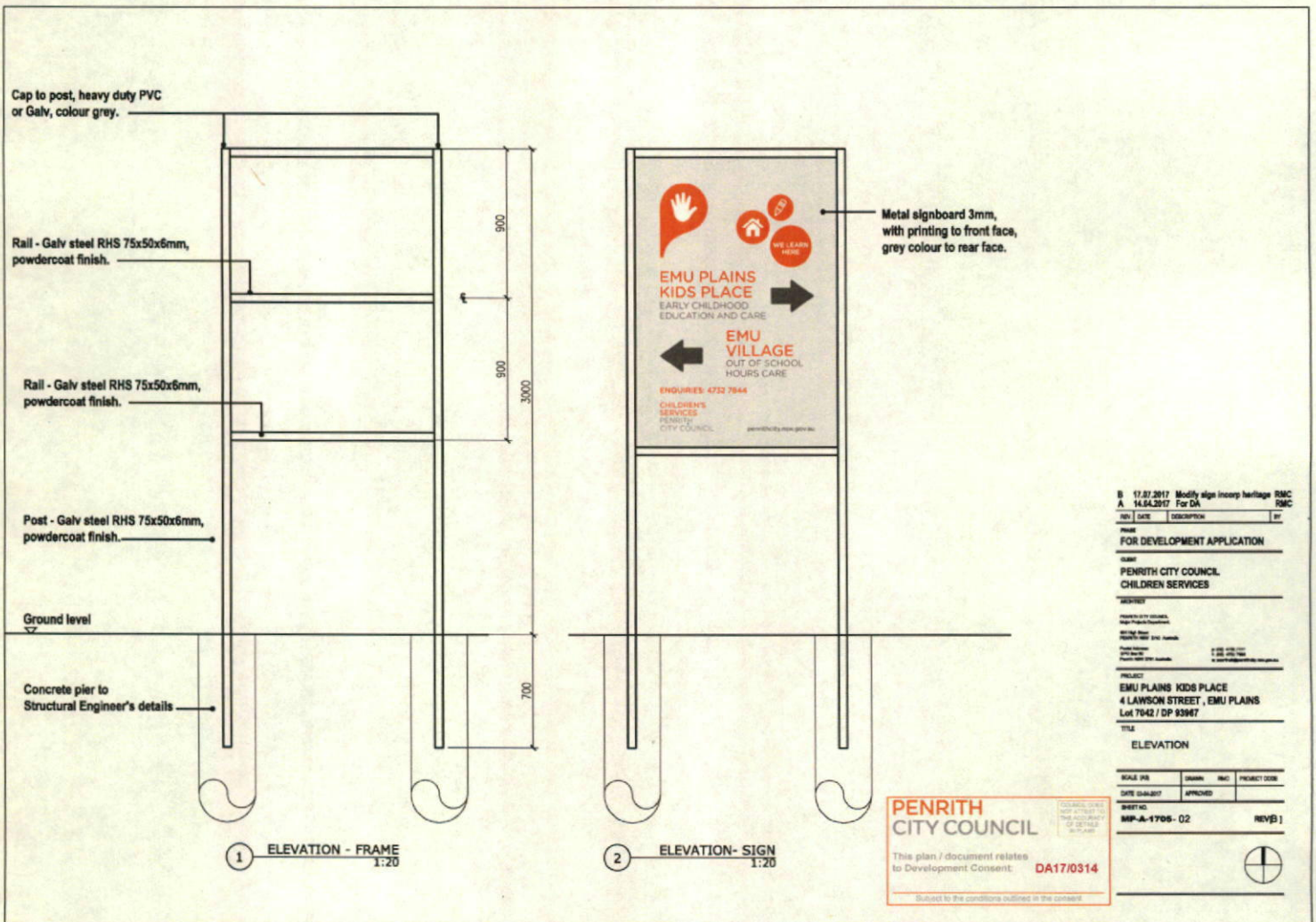


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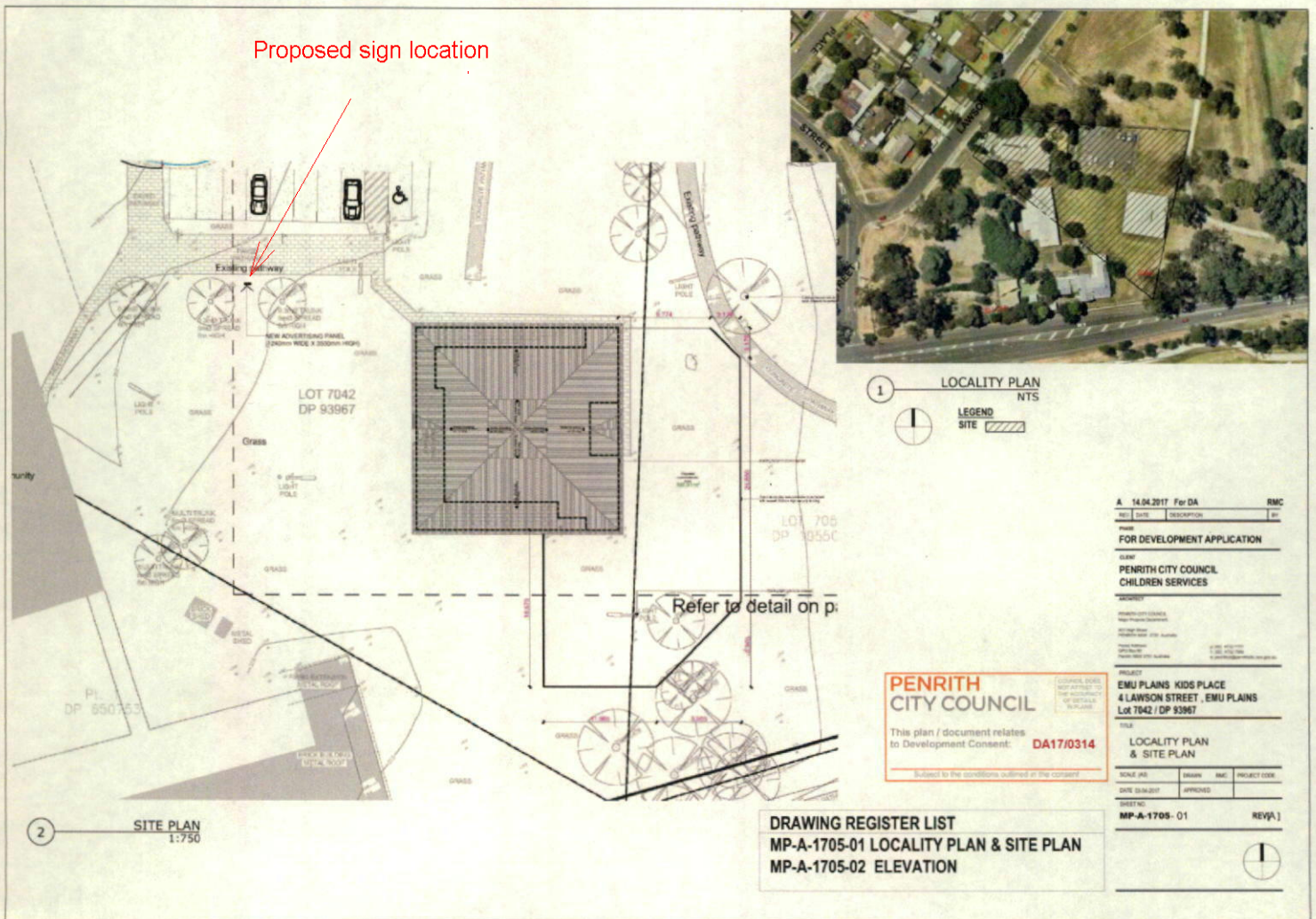
Subject to the conditions outlined in the consent



B	17.07.2017	Modify sign incorp heritage	RMC
A	14.04.2017	For DA	RMC
REV	DATE	DESCRIPTION	BY
FOR DEVELOPMENT APPLICATION			
PROJECT			
PENRITH CITY COUNCIL			
CHILDREN'S SERVICES			
DRAWN BY			
CHECKED BY			
DATE			
PROJECT			
EMU PLAINS KIDS PLACE			
4 LAWSON STREET, EMU PLAINS			
Lot 7042 / DP 93967			
TITLE			
ELEVATION			
SCALE	ISSUED	REV	PROJECT CODE
DATE	DATE	APPROVED	
REF NO			REV B
MP-A-1705-02			

This plan / document relates to Construction Certificate: **CC17/0165**

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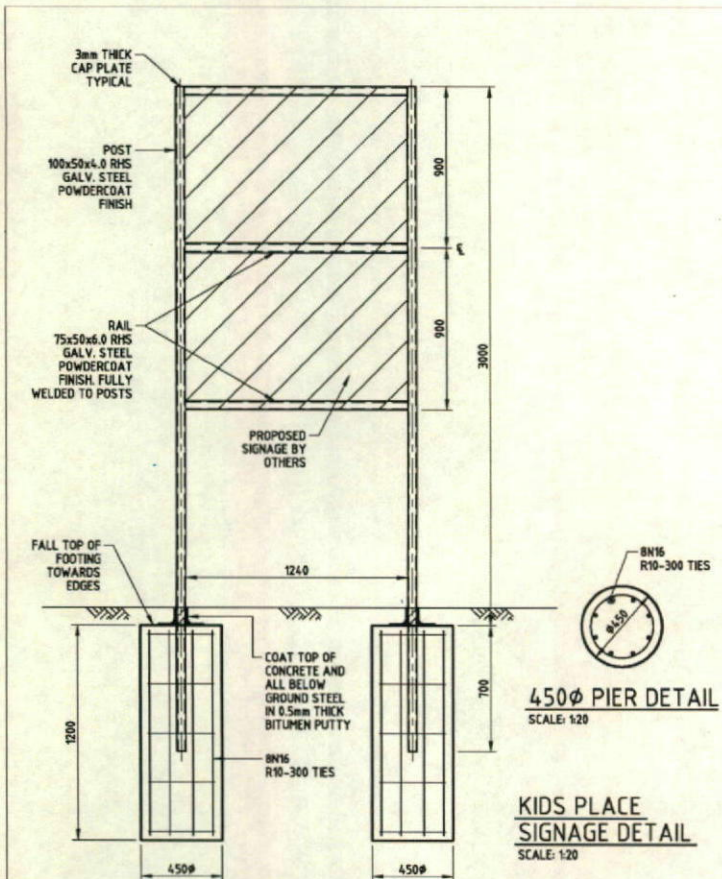


A 14.04.2017 For DA		RMC
DATE	DESCRIPTION	BY
FOR DEVELOPMENT APPLICATION		
CLIENT PENRITH CITY COUNCIL CHILDREN SERVICES		
PROJECT EMU PLAINS KIDS PLACE 4 LAWSON STREET, EMU PLAINS Lot 7042 / DP 93967		
TITLE LOCALITY PLAN & SITE PLAN		
SCALE	JOB	PROJECT CODE
DATE	DATE	APPROVED
SHEET NO. MP-A-1705-01		REV[A]

DRAWING REGISTER LIST	
MP-A-1705-01	LOCALITY PLAN & SITE PLAN
MP-A-1705-02	ELEVATION

This plan / document relates to Construction Certificate: **CC17/0165**

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General Notes

- These drawings shall be read in conjunction with all architectural and other construction drawings, the specifications and with such other written instructions as may be issued during the course of the contract.
- Any discrepancy on the drawings or between the drawings and/or the specification and/or the specified Australian Standard shall be referred to the engineer and a written instruction received prior to proceeding with the work, leaving the tenderer liable to assume the larger/greater criteria in terms of cost in the absence of other instructions.
- All materials and workmanship shall be in accordance with the requirements of the current Australian Standards codes, including all amendments, and the by-laws and ordinances of the relevant building authority, except where varied by the project specification.
- All dimensions are in millimetres unless noted otherwise. All levels are expressed in metres. All dimensions relevant to setting out and off-site work shall be verified on site by the contractor before construction and fabrication are commenced. The engineer's drawings are not to be scaled. No responsibility will be taken by the engineer for dimensions obtained by scaling the drawings.
- Substitutions must be approved by the engineer and be included in any tender.
- During construction the contractor shall be responsible for maintaining the structure in a stable condition, ensuring no part shall be over-stressed during construction activities.
- The structural drawings do not show all details of fixings, inserts, sleeves, openings, etc. required by the various trades. All such details, including openings for construction purposes must be approved by the engineer before proceeding with construction.
- The wind classification of the site is 4.5m/s B.C. as per AS1702.

Concrete Notes

- All materials, workmanship and testing shall comply with AS1379, AS3600 and AS1556.
- Water must not be added to the prepared concrete at site and no additives or admixtures to be used without obtaining prior approval in writing from the superintendent.
- Refer to the table below for required concrete grade:

Element	Class	Min. Agg. Size	Control Type	Grade to NPS
Footing	NS	19	CP	20
- All footing reinforcement shall extend 40 bar diameters into transverse footing.
- No holes, chases or embedment of pipes other than those shown on the structural drawings shall be made in concrete members or slabs without prior approval of the superintendent. Steps in footings shall be constructed in 80%.
- Dimensional tolerances of AS1600 modified by AS1630 shall apply unless otherwise noted. Sub surface flatness tolerance shall be maximum deviation from a 3m straight edge.
- Formed concrete shall not be stripped for at least 7 full days after pouring and longer as required by the formwork code. Such concrete shall be backpropped until such time as the concrete has gained its design strength, where construction loads are imposed, adequate backpropping shall be maintained until such loads are removed and as approved by the superintendent.

Reinforcement Notes

- Concrete cover to reinforcement (refer to table 4.10.3.2 of AS3600 unless otherwise shown in table).
- Provide 30mm minimum cover to all reinforcement, U.M.G.
- Lapping of bars at splices shall be as per below:

Bar Size	Splice Length
R10	35d
R16	45d
- Reinforcement is represented diagrammatically and not necessarily shown in true projection.
- Splices in reinforcement shall be made only in the positions shown or as otherwise approved by the superintendent.
- Welding or reinforcement shall not be permitted without the approval of the superintendent.
- Reinforcement symbols:
 - Ø - Reinforced bars AS/NZS4471 grade 500MPa
 - - Structural grade plain round bar to AS/NZS4471 grade 500MPa
 - SL/SL - Reinforced steel wire reinforcing mesh to AS/NZS4471 grade 500MPa
- All reinforcement must be adequately placed in the positions shown. Tied and supported by the appropriate bar chairs in order to maintain specified covers.

Structural Steelwork Notes

- All materials, workmanship, fabrication and erection shall comply with the requirements of:
 - AS1703 - Steel fabric sections for general structural purposes.
 - AS3679 & AS36712 - Structural steel and welded sections
 - AS1100 - Steel Structures
 - AS1556 - Structural steel welding code and the specification
- Unless shown otherwise, all steel shall be in accordance with AS3679 grade 300. All steel hollow sections shall be grade 300 in accordance with AS1100. All grouted metal purlins and girts shall be grade 450 steel in accordance with AS1556.
- Unless shown otherwise on the drawings, all connections shall be in accordance with the following minimum requirements:
 - All welds shall be in accordance with AS1556.
 - All bolts shall be M16 - 8.8/S with a minimum of 2 bolts per connection. Purlin bolts to be M12 - 8.8/S with a minimum of 2 bolts per purlin end.
 - All gusset and cleat plates shall be 10mm thick.
 - All cap plates shall be 10mm thick.
 - All base plates shall be 20mm thick.
- Bolt designation:
 - 4.8/5 refers to commercial bolts of strength grade 4.8 to AS1171 tightened to a snug tight condition.
 - 8.8/8 refers to high strength structural bolts of grade 8.8 to AS1252 tightened to a snug tight condition.
 - 8.8/7 refers to high strength structural bolts of grade 8.8 to AS1252 fully tensioned to AS470 as a bearing joint.
 - 8.8/7T refers to high strength structural bolts of grade 8.8 to AS1252 fully tensioned to AS470 as a friction joint.
- High strength bolted joints shall be in accordance with AS470. The specified bolt tension shall be obtained by use of the "Turn Turn" method of tightening.
- Unless specified otherwise all bolts, nuts and washers shall be hot dip galvanized.
- All welds shall be SP (Structural Purpose) in accordance with AS1556. All butt welds shall be full strength complete penetration welds. All electrodes shall be class E48.
- All steelwork below ground or finished surface level is to be thoroughly coated in a minimum 0.5mm thickness of bitumen putty, enamel or equivalent. Coating to extend 150mm and cover concrete footing, piers, base plates and all holding down bolts as applicable.
- All steelwork, except that which is to be concrete encased, the spray or contact surfaces of friction type joints, shall be surface cleaned and painted in accordance with the specification.
- The contractor shall provide all cleats and drill all holes necessary for fixing steel, purlin and other elements to steel whether or not detailed on the structural drawings.
- The fabrication and erection of the structural steelwork shall be supervised by qualified personnel engaged in such supervision to ensure that all requirements of the design are met. Details of erection sequence shall be submitted to the design engineer for review prior to commencement of erection. The approved erection sequence shall not be varied during the erection process without the approval of the design engineer.
- Columns and mullions shall have their base plates fully grouted in accordance with the specifications after pouring and leveling on response patches.
- Columns of rafters and beams over 6000mm in length shall be cambraced 5mm for every 2000mm of length unless noted otherwise on the drawings.
- Four sets of steelwork shop detail drawings shall be submitted to the engineer for approval prior to commencement of any fabrication. The approval shall not cover layout and member dimensions.

PENRITH CITY COUNCIL

This plan / document relates to Development Consent: **DA17/0314**

Subject to the conditions outlined in the consent

DRAWING LIST

S1 - PLATYPUS CHILDREN CENTRE TYPICAL SIGNAGE DETAIL
 S2 - KIDS PLACE TYPICAL SIGNAGE DETAIL

INHOUSE CONSULTING ENGINEERS PTY. LTD. CONSULTING STRUCTURAL & CIVIL ENGINEERS Y.O. NO. 752, KINGSWOOD, NSW 2147 Telephone: (02) 9721 8044 Website: www.inhouseengineering.com.au A.S.N. 4th floor 101-110			DESIGNED: E IQBAL DRAWN: J MORGAN SCALE: 1:20 (A3) DATE: AUG' 2017	CLIENT: PENRITH CITY COUNCIL Mr Roger E. Doherty Dir/Techng. & E. Mgt./Asst. CPENG Signature: [Signature] Title: Director - N.S.W. No. 6887	PROJECT: PROPOSED SIGNAGE - KIDS PLACE AT 4 LAWSON STREET, EMU PLAINS FOR PENRITH CITY COUNCIL DRG TITLE: KIDS PLACE TYPICAL SIGNAGE DETAIL	JOB No: 16395 DRG No: S2 REV: A
REVISIONS A 16/08/2017 FOOTINGS ALTERED RD JM ENG DPT						