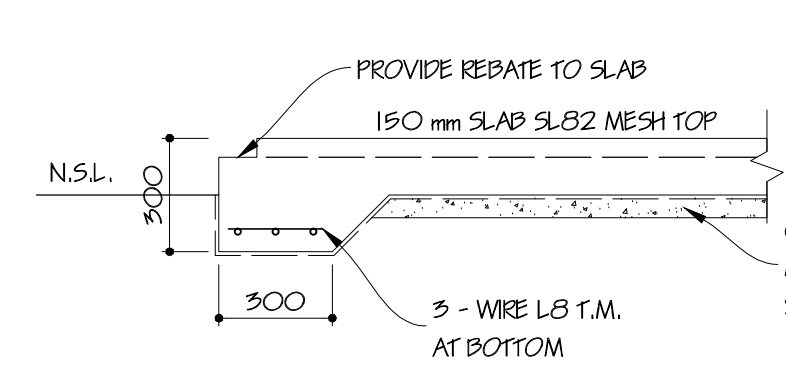
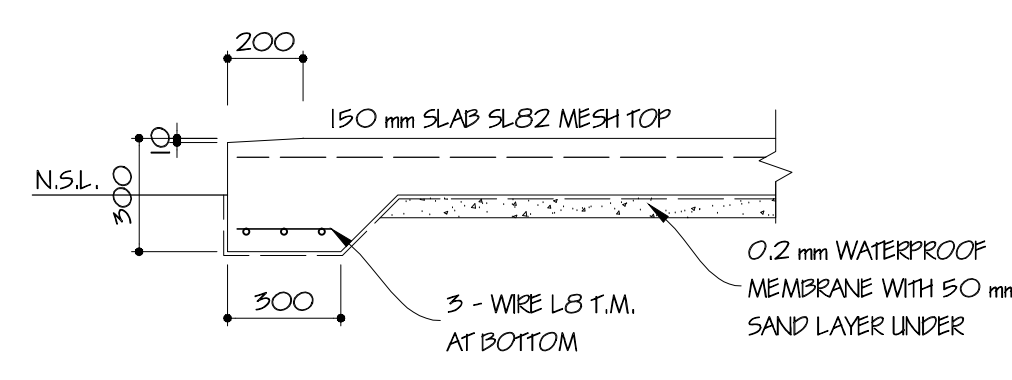


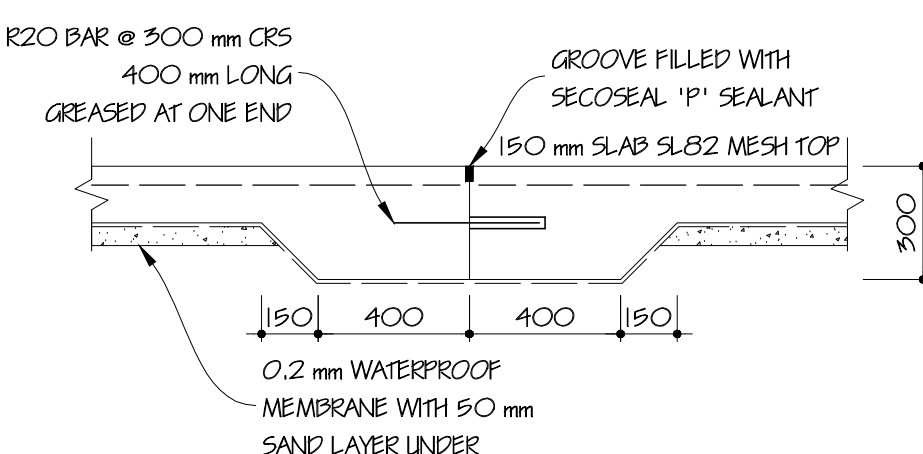
SAW CUT DETAIL
Scale 1:20



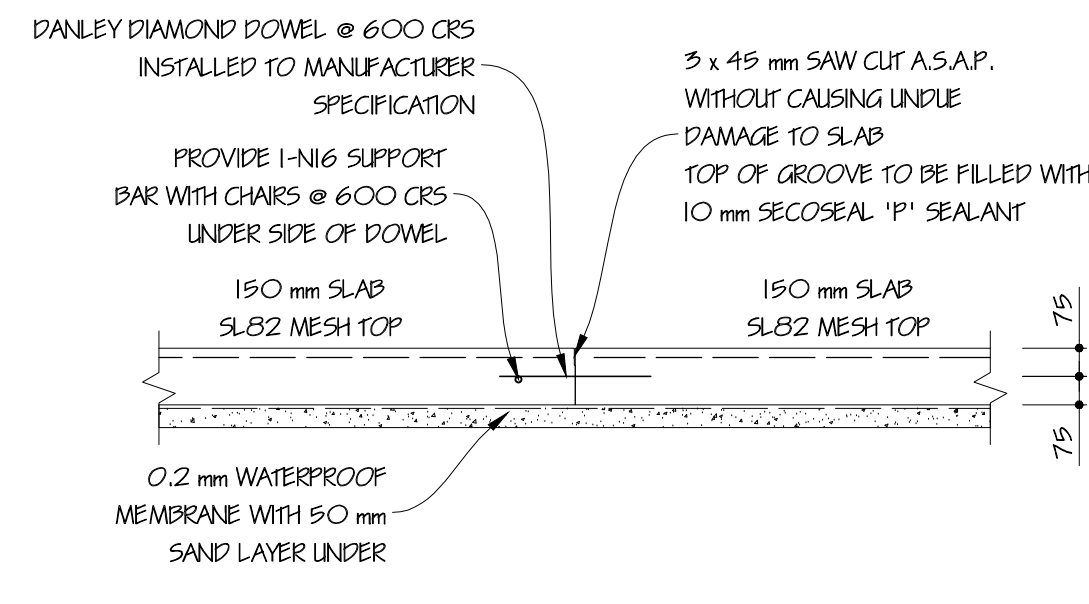
EDGE BEAM DETAIL
(at glazing)
Scale 1:20



EDGE BEAM DETAIL
(at roller shutter)
Scale 1:20



CONSTRUCTION JOINT DETAIL
Scale 1:20



DIAMOND DOWELLED CONSTRUCTION JOINT DETAIL
(ALTERNATIVE DETAIL) - Scale 1:20

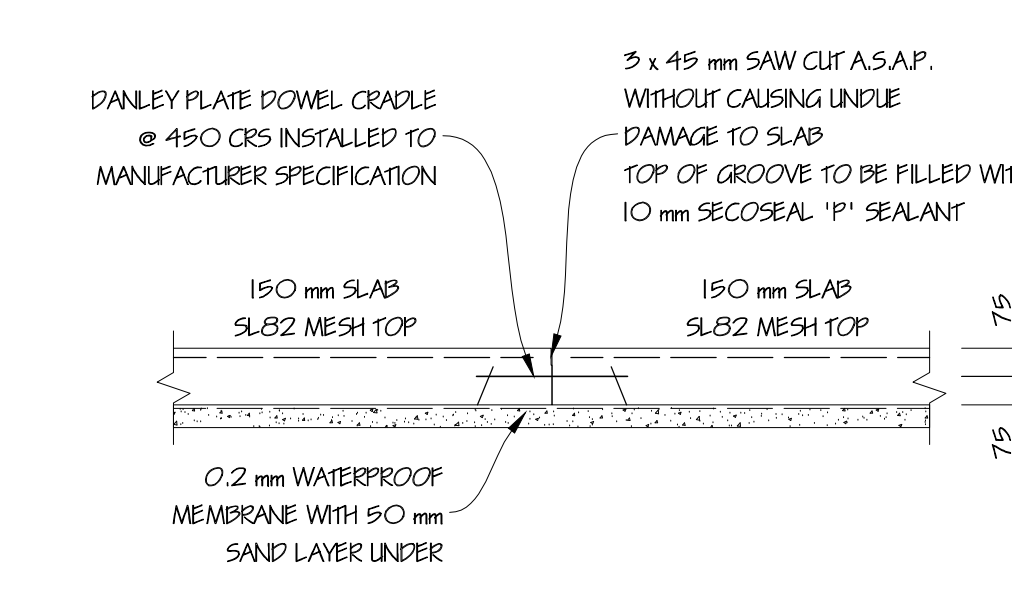
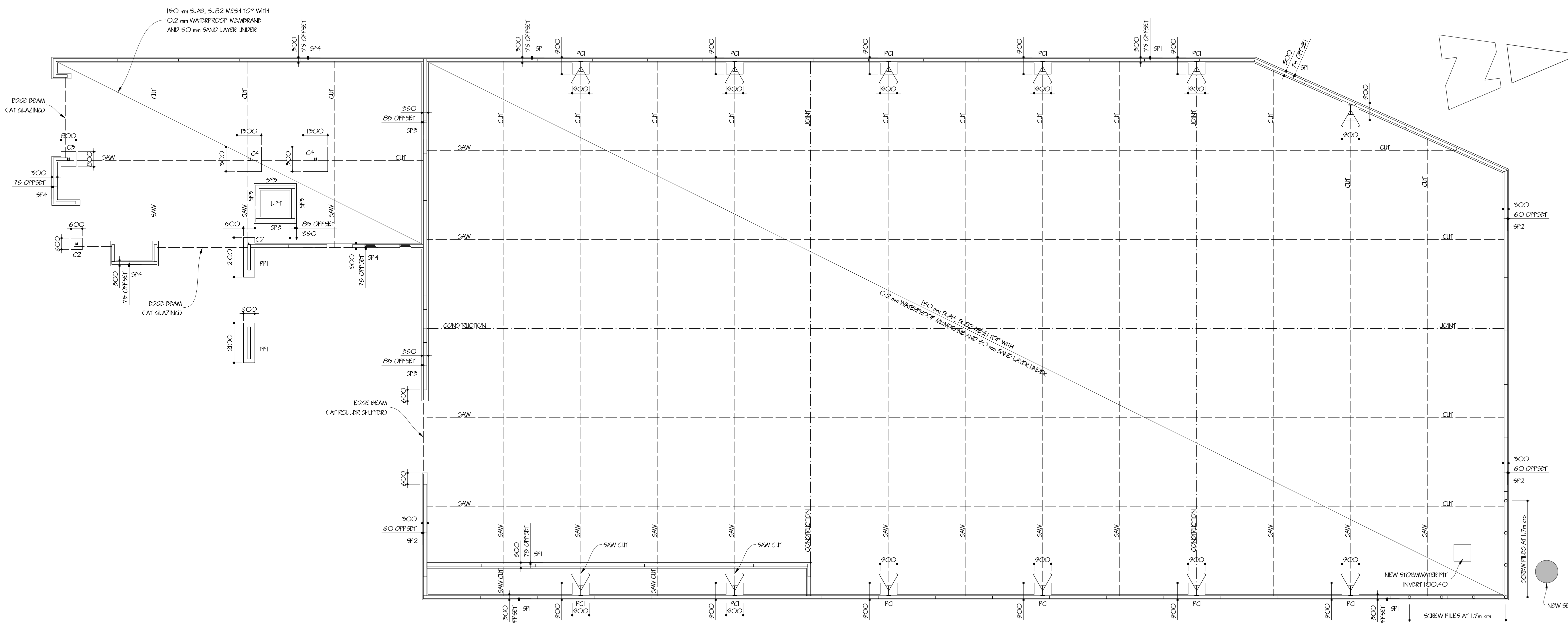


PLATE DOWELLED CONSTRUCTION JOINT DETAIL
(ALTERNATIVE DETAIL) - Scale 1:20



FOOTING LAYOUT PLAN

SOIL REPORT NOTES:
PAD AND STRIP FOOTINGS TO BE A MINIMUM OF 100mm INTO THE NATURALLY OCCURRING STIFF SILTY CLAY.
THE FLOOR SLAB MAY BE FOUNDED ON THE EXISTING FILL SOILS AS DESCRIBED IN THE ENGINEERING LOGS. THE SURFACE MATERIAL OF 20mm TO 60mm NON-DESCRIPTION CRUSHED ROCK WILL PROVIDE A SUITABLE SUBGRADE FOR THE SLAB AND BASED ON THE FIELD OBSERVATIONS AND TESTS CAN BE ASSUMED TO HAVE MODULUS OF SUBGRADE REACTION OF 30 kPa/mm.
FOR LEVELLING & FILLING REFER TO 7.4 OF SOIL REPORT.
IF ANY VARIATION TO SOIL OCCURS CONTACT SOIL CONSULTANT.

GENERAL:
G1 These drawings shall be read in conjunction with all relevant Architectural and other consultant's drawings and specifications and with any other written instructions issued during the course of the contract.
G2 All dimensions must be verified on site. Any discrepancy shall be referred to the Engineer before proceeding with the work. Engineering drawings must not be scaled.
G3 Material and workmanship are to be in accordance with the relevant current S.A.A. codes and the Building Code of Australia.
G4 Substitution shall not be permitted without the approval of the Engineer.
G5 The builder shall be responsible for ensuring that the structure and all of its elements are adequately braced and fully tensioned and maintained in a safe and stable condition during the entire erection and construction phase. No part of the structure shall be allowed to be overstressed during the construction phase.

FOUNDATIONS:
F1 All footings shall be based on solid ground with a safe bearing capacity of at least 1,200 kPa. The final level and verification of bearing pressure should be in accordance with the soil report noted below.
F2 All foundations must be inspected and approved by the relevant Building Inspector before concrete is poured.
F3 These drawings must be read in conjunction with the soil report by ALLEN KARLOVIC SOIL ENGINEERING Pty. Ltd. Report No. 13082.
F4 Soil Classification: Class "P"

CONCRETE

C1 Concrete Compressive Strength f_c @ 28 days
Footings 25 Mpa Floor Slab 32 Mpa
Columns, Beams, Slab Wall panel 40 Mpa
Testing as defined for project control Max Slump 75 mm

C2 Clear concrete cover to reinforcement unless otherwise noted to be:

	Formwork & Exposed Ground or Water	Formwork & Sheltered Ground	Formwork & Sheltered Location
Pad footings & pile caps	65	-	75
Strip Footings	50	-	65
Beams	40	25	65
Slabs and Walls	30	25	65
Columns	50	40	75

Formwork must comply with AS-3610.
Conduits, Pipes, etc are not placed in concrete cover.

C3 Reinforcements must be securely fixed in position to prevent displacement and supported on bar chairs spaced @ 1 m c/s
C4 On no account shall masonry be built on concrete slabs or beams until framework and props have been removed.
C5 Concrete sizes shown do not allow for finishes and must not be reduced or noted without the Engineer's approval. Slabs and beams are to be poured together.
C6 Concrete must be kept free of supporting brickwork by 2 layers of suitable membrane (malthoid etc.). Vertical faces of concrete must be kept free by a 12 mm thickness of bituminous impregnated concrete or similar.
C7 Construction where shown will be located to the approval of the Engineer.
C8 All concrete slabs to be moist cured for min. of 7 days after the concrete is poured.
C9 Reinforcement notations are as per AS4671-2001.
All reinforcement to be:
- bars : D500
- mesh: R500 unless otherwise noted.
C10 2 No. N12 x 1.5 m long bars shall be placed diagonally across each corner of any wall or slab openings.
C11 Formwork shall be left in place, unless otherwise noted for the following times:
A Beam sides, vertical walls & columns 4 days
B Slabs up to 4.5 m span (formwork removed & reproped) 10 days
C Removal of props under slabs 21 days
D Beam soffits up to 7.5 m span (props left under) 14 days
E Removal of props to beams 28 days

STEEL
S1 Weld unless otherwise noted to be 6 mm continuous fillet weld laid down with approved covered electrode. Butt welds must develop the full tensile strength of the member.
S2 M4,6/8 bolts in 2 mm clearance holes may be used unless otherwise stated.
S3 Gusset plates unless otherwise noted to be 12 mm thick.
S4 The fabricator must provide all cleat holes for fixing of timber members as required by Architectural drawings and specifications.
S5 All steelwork shop drawings shall be approved by this office before fabrication is commenced. Approval does not cover checking dimensions of layout nor preclude the fabricator from the responsibility for the correctness of the work. Cost to check plans by engineer shall be borne by builder/fabricator.
S6 All steelwork other than that encased by concrete and mating surfaces of Friction Grip Bolt Connections shall be given one coat of approved steel priming paint.
S7 Corner to structural steel roof beams, trusses, portals etc., to be 3 mm for every metre span unless otherwise noted.
S8 Concrete encased structural steel work shall be encased by S151 mesh, placed 25 mm clear of steel member. Encasement to provide minimum of 25 mm cover (50 mm where exposed to earth).

LOADS

L1 Design live loads:
- roof: 0.25 kPa
- mezzanine: 3.00 kPa
- office first floor: 3.00 kPa
- office ground floor: 3.00 kPa
- stairs: 4.00 kPa
- factory/warehouse floor: 5.00 kPa

DATE	BY	REVISION
21/09/2016	B	LIFT PANEL FOOTINGS
01/06/2016	A	SCREW PILES ADDED AT SWP & SEWER

All levels and dimensions to be checked and verified to commencement of construction of each element of the structure. This Document is Copyright and is supplied on the express condition that it is not to be used for any other purpose or copied or communicated to any other person without the prior permission of Stephen D'Andrea Pty. Ltd.

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PROJECT
PROPOSED WAREHOUSE AND OFFICE
AT No 865 MOUNTAIN HIGHWAY,
BAYSWATER.

CLIENT

DATE	JULY '16	SCALE	1:100
DRAWN	J.C	SHEET	5 OF 11
DRG No	567B/16	ISSUE	B

ISSUE FOR CONSTRUCTION