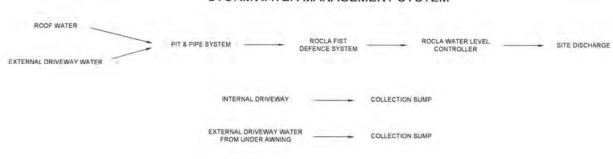
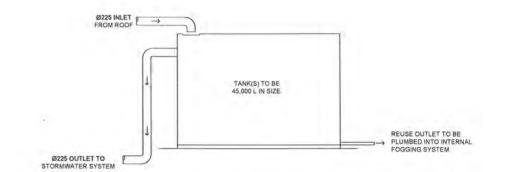
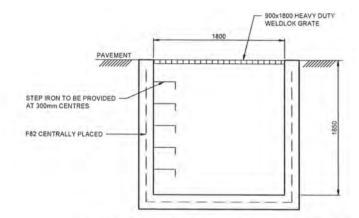


## STORMWATER MANAGEMENT SYSTEM

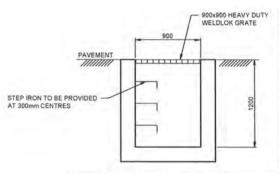




## RAINWATER TANK SYSTEM



MATERIAL STORAGE LEACHATE COLLECTION SUMP DETAIL UNDER BUILDING



**BUILDING LEACHATE COLLECTION** SUMP DETAIL WITHIN BUILDING



0 0.1 0.2 0.3 0.4 0.5

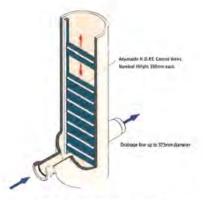
0 0.5 1.0 1.5 2.0 2.5

1:25

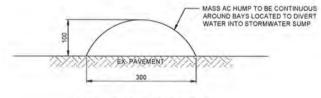


HUMES **JELLYFISH** DETAIL NOT TO SCALE

Sydney Central Coast P: 02 9659 0005 P: 02 4325 5255



**ROCLA WATER LEVEL** CONTROLLER DETAIL



TYPICAL BUND DETAIL
SCALE 1:5



D 18/03/16 REISSUED FOR APPROVAL

C 18/03/16 REISSUED FOR APPROVAL

AMENDMENT

B 17/03/16 ISSUED FOR APPROVAL

No DATE

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F	9/11/17	REISSUED FOR APPROVAL	2774.7.6-1797.13	Client	Tanani 11 11 11 11 11 11 11 11 11 11 11 11 11
E	23/03/16	REISSUED FOR APPROVAL	Barker Ryan Stewart	Client:	STORMWATER DES
D	18/03/16	REISSUED FOR APPROVAL	Dankor My Giroro Warr		20 HEARNE STREET

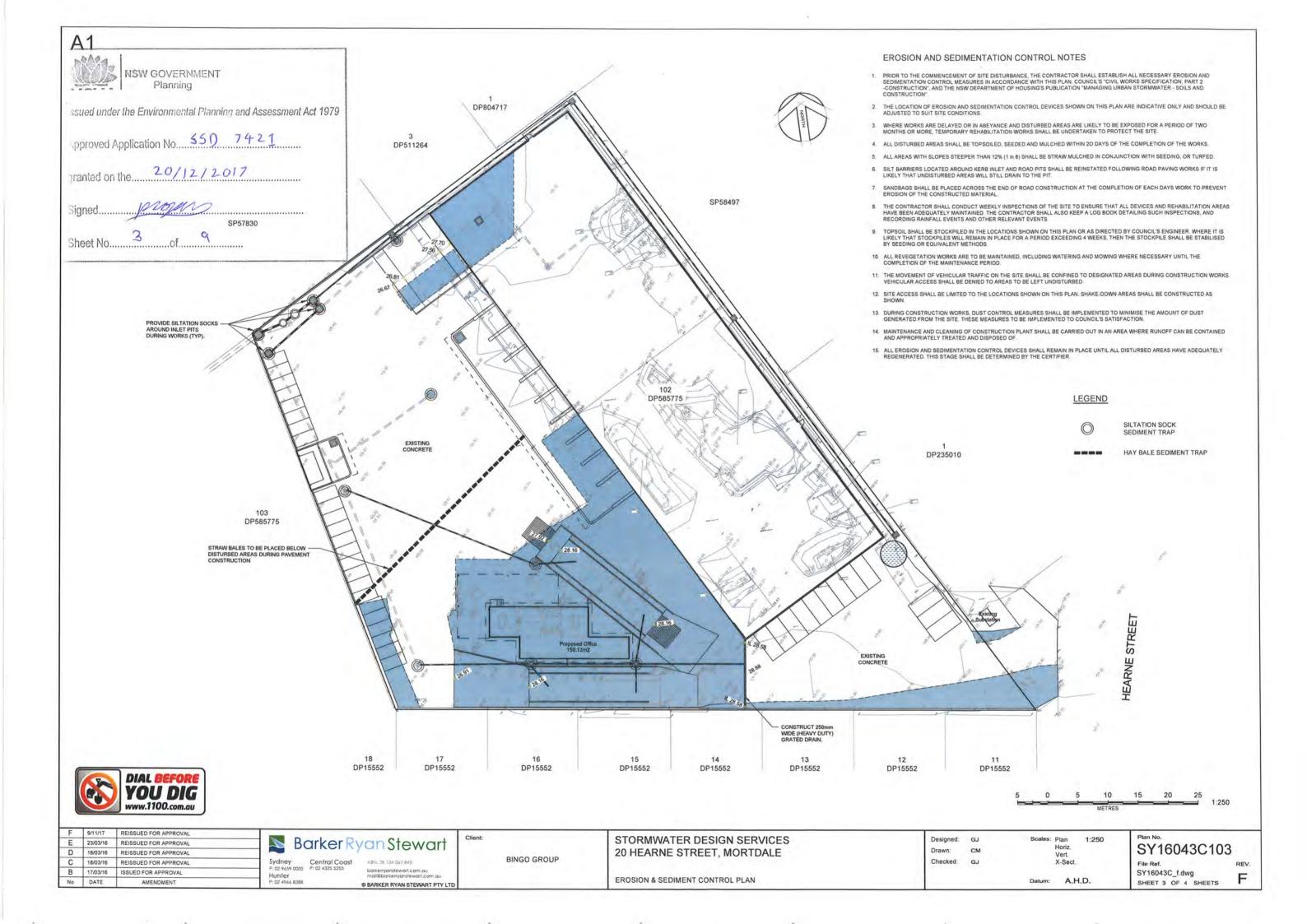
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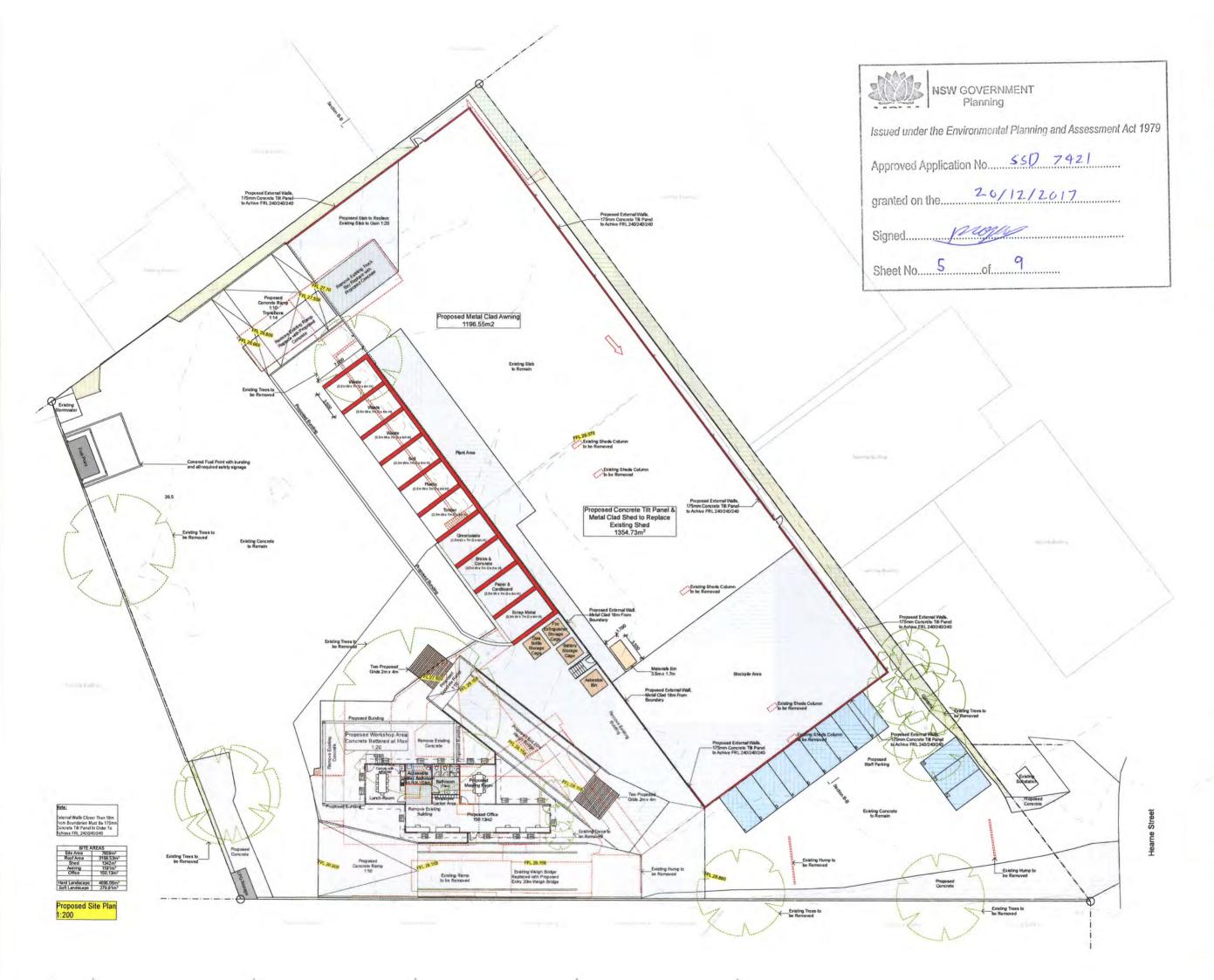
		MET	TRES
PRMWATER DESIGN SERVICES HEARNE STREET, MORTDALE	Designed: GJ Drawn: CM	Scales: Plan Horiz. Vert	Plan No. SY16043C102
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20 HE SY16043C\_f.dwg F DETAIL SHEET Datum: A.H.D. SHEET 2 OF 4 SHEETS



## A1 STABILISE STOCKPILE SURFACE KERB OUTLET EARTH BAN SEDIMENT FENCE DRAINAGE AREA 0.4 ha MAX. SLOPE GRADIENT 1:2 MAX. SLOPE LENGTH 40m MAX. ANGLE FIRST STAKE TOWARDS PREVIOUSLY LAID STRAW BALE STAKES DRIVEN 0.6m INTO CONSTRUCTION NOTES DISTURBED AREA GEOTEXTILE STAKES PAVEL FILLED WIRE MESH DIRECTION OF FLOW WHERE POSSIBLE LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS, HAZARD AREAS AND MIN. 1.5m AWAY FROM EMBANKMENTS, FILTER FABRIC CONSTRUCTION NOTES RUNOFF WATER STAKES 2. CONSTRUCT ON THE CONTOUR AS A LOW, FLAT ELONGATED MOUND. 1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH AND FILL IT WITH 25mm 10. 3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT. UNDISTURBED AREA 2 FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE BURIED FABRIC 4. REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP 3. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING FILTER 0.1m DEEP 5, CONSTRUCT EARTH BANK (STANDARD DRAWING 5-5) ON THE LIPSI OPE 4. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE FILTER FABRIC (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE. CANNOT PASS BETWEEN TOPSOIL STOCKPILE SURFACE INLET PIT SEDIMENT TRAP MESH & GRAVEL FILTER "SAUSAGE" BARRIER STRAW BALE SEDIMENT FILTER SPRAY SLURRY 1 FLOCCULATION TO BE USED IF WATER IS NOT CLEAR (IE: SEDIMENT GREATER THAN 50 mg/L) PRIOR TO DISCHARGING FROM 2, FOR RATES & AGENTS SEE APPENDIX E OF HOUSING NSW "MANAGING URBAN SW SOILS & CONSTRUCTION". GRUCHED ROCK OUTLET TO HALF THE HEIGHT OF BALES. PERFORATED BARREL CRUSHED AGGREGATE MIN. 50mm FLOCCULATION DETAIL FOOTPATH STRAW BALES STAKED TO GROUND. (REFER TO STRAW BALE DETAIL) KERB-SIDE INLET TIMBER SPACER TO SUIT VEHICLE DUST SHAKE DOWN DETAIL STRAW BALE & CRUSHED ROCK SEDIMENT FILTER CATCH DRAIN DETAIL **NSW GOVERNMENT** Planning Issued under the Environmental Planning and Assessment Act 1979 GRAVEL-FILLED WIRE MESH OR GEOTEXTILE "SAUSAGE" Approved Application No. 55D 7421 OVERFLOW TIMBER SPACER TO SUIT DIRECTION OF FLOW DISTURBED AREA RUNOFF WATER CONSTRUCTION SITE 20/12/2017 1.5m STAR PICKETS HED ON the ... MAX. 3m CENTRES UNDISTURBED AREA GRAVEL-FILLED WIRE MESH FILTERED WATER 1.5M STAR PICKETS She DGB 20 ROADBASE OR CONSTRUCTION NOTES EXISTING ROADWAY CONSTRUCTION NOTES - DIRECTION OF FLOW INSTALL FILTERS TO KERB INLET ONLY AT SAG POINTS: CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARRALLEL TO THE CONTOURS OF THE SITE. 2 FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL. **CONSTRUCTION NOTES** 150mm X 100mm TRENCH EMBEDMENT GEOTEXTILE FARRIC DESIGNED TO PREVENT 2. DRIVE 1.5m LONG STAR PICKETS INTO GROUND 2.5 METRES APART (MAX.) 1. STRIP TOPSOIL AND LEVEL SITE. INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS. 3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE 3, DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED. 2 COMPACT SUBGRADE 4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET MAINTAIN THE OPENING WITH SPACER BLOCKS. 3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE. GEOFABRIC MAY BE A WOVEN OR NEEDLE PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) OF 2500 N 4. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER. SECTION DETAIL 4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING 5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING FILTER. ROADBASE OR 30mm AGGREGATE. MINIMUM LENGTH 15 METRES OR 5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP. TO BUILDING ALIGNMENT, MINIMUM WIDTH 3 METRES SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN. 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT 5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT **DIAL BEFORE** THOROUGHLY OVER THE GEOTEXTILE. WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP **YOU DIG** MESH & GRAVEL INLET "SAUSAGE" FILTER SEDIMENT FENCE STABILISED SITE ACCESS www.1100.com.au 9/11/17 REISSUED FOR APPROVAL STORMWATER DESIGN SERVICES Designed: GJ Scales: Plan Barker Ryan Stewart 23/03/16 REISSUED FOR APPROVA SY16043C104 CM Drawn: D 18/03/16 REISSUED FOR APPROVAL 20 HEARNE STREET, MORTDALE Vert BINGO GROUP Checked 18/03/16 REISSUED FOR APPROVAL File Ref В SY16043C\_f.dwg 17/03/16 ISSUED FOR APPROVAL Hunter **EROSION & SEDIMENT CONTROL DETAILS** Datum: A.H.D DATE AMENDMENT P: 02 4966 8388 SHEET 4 OF 4 SHEETS @ BARKER RYAN STEWART PTY LTD

REV.









neral Notes

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site prior to the commencement of any building works

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D	15-05-15	DA Issue
E	14-07-15	DA Amendment Issue
F	30-07-15	DA Amendment Issue
G	18-11-15	DA Amendment Issue
H	11-03-16	EIS Issue
1	21-03-16	EIS Amendment Issue
J	03-11-16	ElS Amendment Issue
K	16-03-17	Amendment Issue
L	07-07-17	Amendment Issue
M	22-09-17	Amendment Issue

20 Hearne Street Mortda

For: Bingo Group

Pint Date: Fiday, 22 September 2017 Semplates

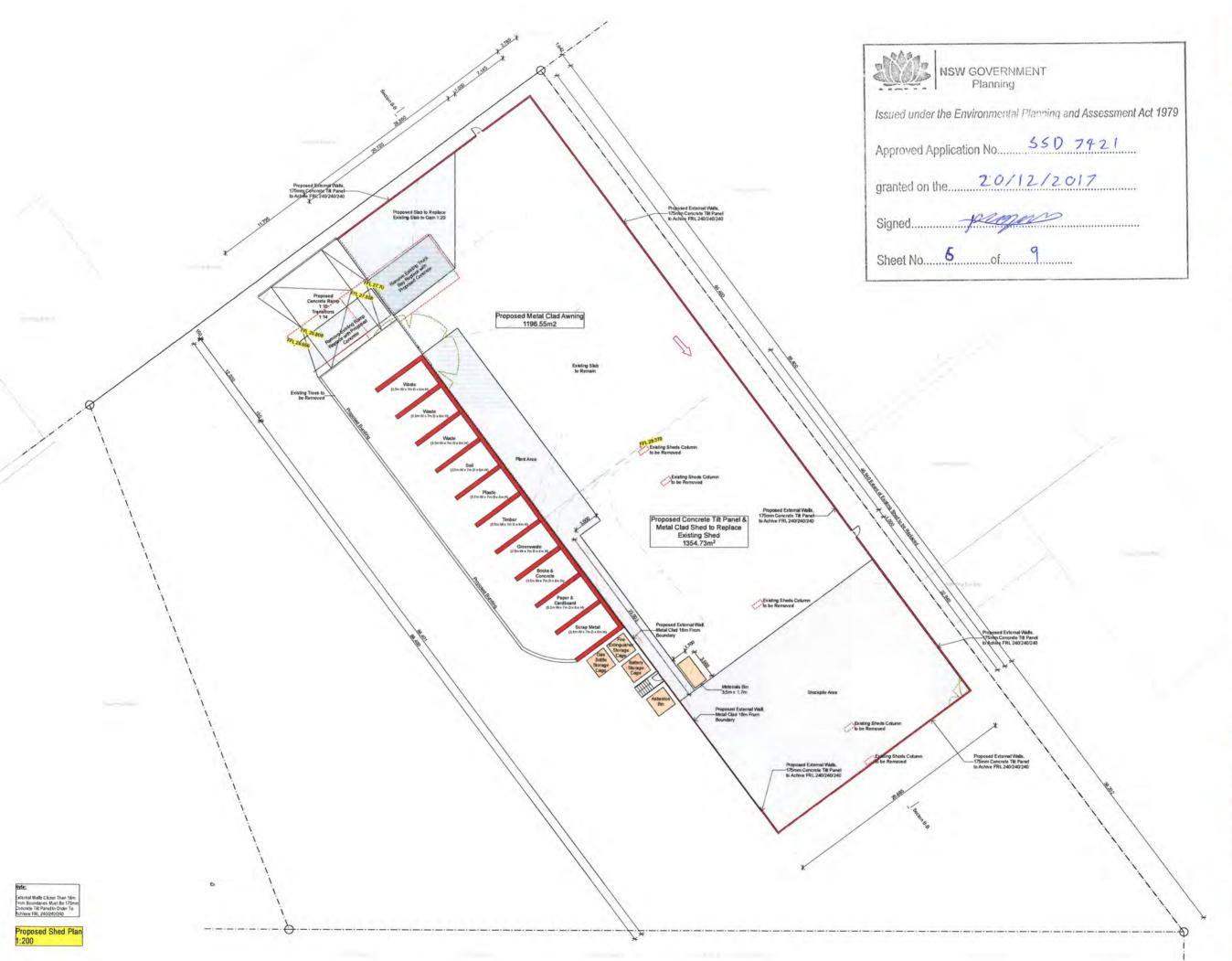
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В	14-04-15	Concept Issue
Α	25-03-15	EB Issue
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Proposed Development

F. Bingo Group

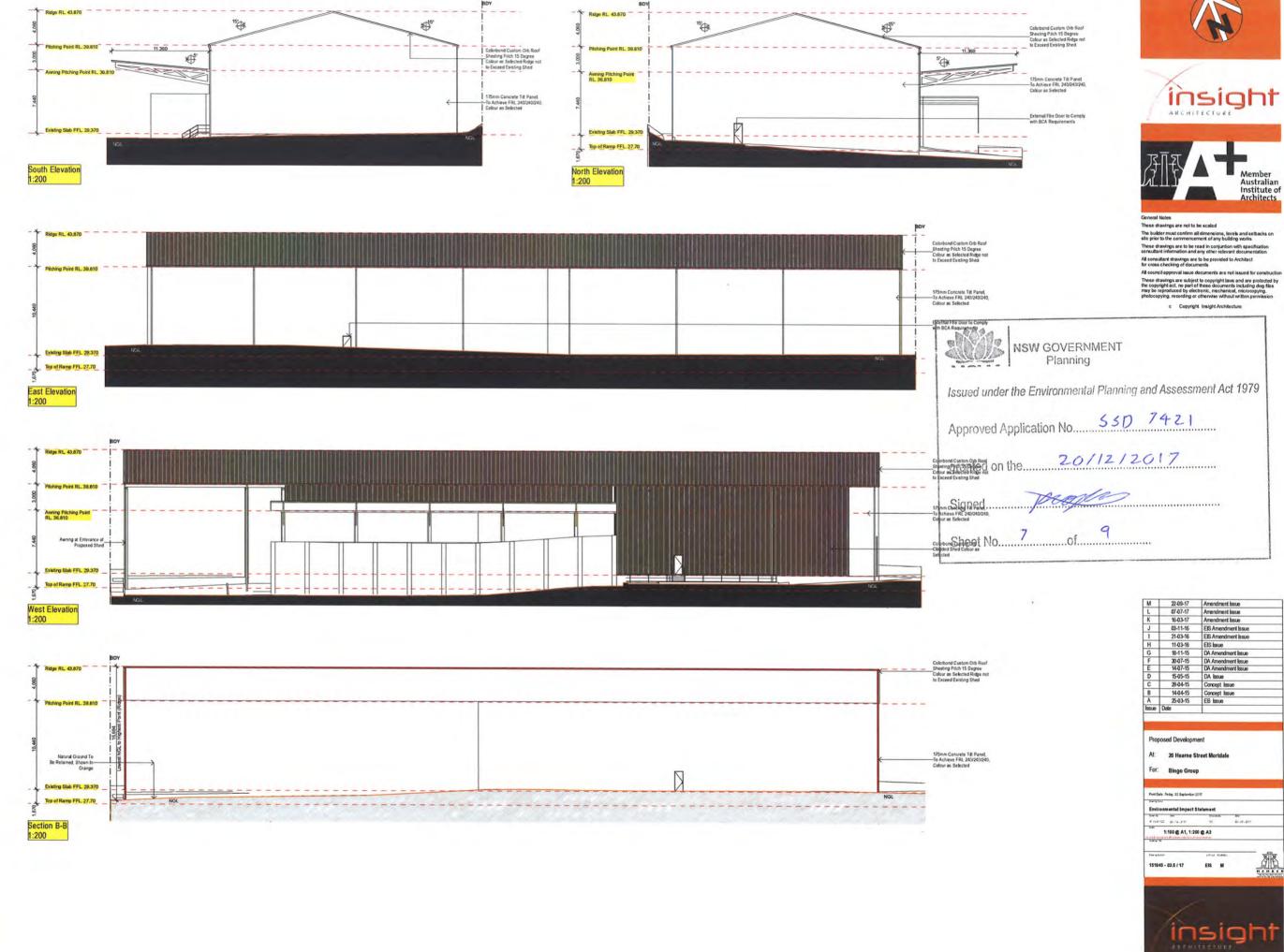
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Services
Environmental Impact Statement

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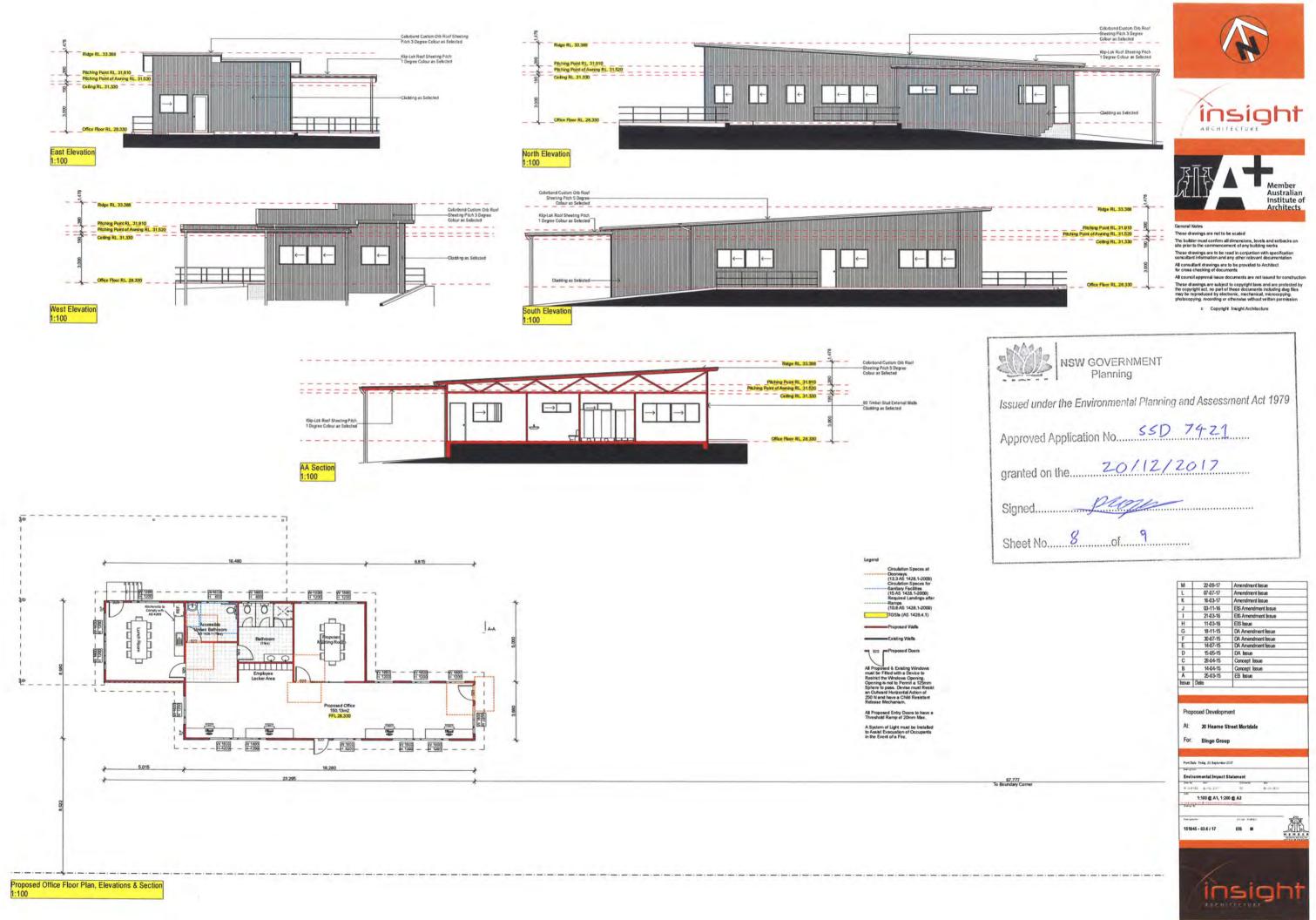
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Proposed Shed Elevations 1:200











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Al: 20 Hearne Street Mortdale

For: Bingo Group

Pret Date Feday, 22 September 2017

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