General Notes for Commercial Works

GENERAL NOTES (NCC 2015, BCA Vol 1)

All materials and work practices shall comply with, but not limited to the Building Regulations 2006, the National Construction Code series 2012 Building Code of Australia Volume 1 and all relevant current Australian Standards (as amended) referred to therein.

Unless otherwise specified, the term BCA shall refer to National Construction Code Series 2012 Building Gode of Australia Volume 1.

All materials and construction practice shall meet the Performance Requirements of the Building Code of Australia. Where an alternative solution is proposed then prior to implementation or installation it first must be assessed and approved by the Relevant Building Surveyor as meeting the Performance Requirements of the Building Code of Australia.

Step sizes (other than for spiral stairs) to be:-

Risers (R) 190mm maximum and 115mm minimum Going (G) 355mm maximum and 250mm minimum for Public stairways and 355mm maximum and 240mm minimum for Private stairways

2R + 1G = 700mm maximum and 550mm minimum

Constructed with a less than 125mm gap to open treads

All treads, landings and the like to have non-slip finish or suitable non-skid strip near edge of

Provide balustrades where change in level exceeds 1000mm above the surface beneath landings, ramps and/or treads. Balustrades (other than tensioned wire balustrades) to be:1000mm minimum above finished surface level of balconies, landings or the like, and

1000mm minimum above finished surface level of stair nosing or ramp, and

Vertical with a less than 125mm gap between, and
Any horizontal element within the balustrade between 150mm and 760mm above the floor must not facilitate climbing where changes in level exceeds 4000mm above the surface beneath landings, ramps and/or reads

Top of hand rails to be minimum 865mm vertically above stair nosing and floor surface of ramps.

Window sizes nominated are nominal only. Actual size may vary according to manufacturer, Windows to be flashed all around.

Waterproofing of wet areas to comply with BCA Part F1.7.

For buildings in marine or other exposure environments shall have masonry units, mortar and all built in components and the like complying with the durability requirements of AS3700-2011

Masonry structures

All storm water to be taken to the legal point of discharge to the relevant authorities' approval.

These drawings shall be read in conjunction with all architectural specifications, relevant structural and all other consultants' drawings/details and specifications and with any other written instructions issued in the course of the contract.

All measurements and levels in millimeters U.N.O.

Figured dimensions take precedence over scaled dimensions.

The builder shall take all steps necessary to ensure the stability and general water tightness of all new and/or existing structures and all essential services to be maintained during all works.

The builder and subcontractors shall check and verify all dimensions, setbacks, levels and specifications and all other relevant documentation prior to the commencement of any works. Report all discrepancies to this office for clarification.

Installation of all services shall comply with the respective Supply Authority requirements.

The builder and subcontractor shall ensure that all storm water drains, sewer pipes and the like are located at a sufficient distance from any buildings footing and/or slab edge beams so as to prevent general moisture penetration, dampness, weakening and undermining of any building

These plans have been prepared for the exclusive use by the client of [Insert Building Designer] ('the Designer') for the purpose expressly notified to the Designer. Any other person who uses or relies on these plans without the Designer's written consent does so at their own risk and no responsibility is accepted by the Designer for such use and/or reliance.

The approval by this office of a substitute material, work practice, variation or the like is not an authorisation for its use or a contract variation. Any said variations must be accepted by all parties to

the agreement and where applicable the Relevant Building Surveyor prior to implementing the

Refer to Civil Engineers design and details for all storm water, car parking and driveway

Refer to fire services design for all hydrant, hose reels and extinguisher details.

Electrical switchboards located in the path of travel to exits to be enclosed in a metal or other non combustible cabinet with smoke proof doors. Significant switchboards shall be provided with a 6kg carbon dioxide extinguisher or enother type of extinguisher with a minimum classification of 1A:E and fitted with a hose complete with extinguisher identification signage and shall be located between 2m and 20m from the significant switchboard.

Fire hazard properties of materials and assemblies to comply with BCA Specification C1.10.

Mechanical ventilation or air-conditioning of rooms to be provided with a system complying with AS1668.2 and AS/NZS 3666.1 as amended. Exhaust outlets to be located no closer than 6.0m

Sediment pollution control:-

A site management plan is to be implemented during construction to control sediment run-off in ordance with EPA Victoria publication #275 'construction techniques for sediment pollution

Provide 'propex' or written approved equivalent silt fences to the low side of the allotment and around all soil stockpiles and storm water inlet pits / sumps and install 'silt stop' filter bags over all storm water entry pits during construction works.

'Supergro' or written approved equivalent erosion control fabric to be placed over garden beds to prevent surface erosion during re vegetation period

Personal loading:-

Based on sanitary facilities provided per BCA Table. F2.3

Male Employees;-Female Employees:-

Mate Patrons:-

Mate Participants

Female Participants:

Authorities List:-Municipality-Sewerage authority Drainage authority-Relevant Building Surveyor-Relevant Fire Authority-Relevant Electrical Supply Authority-

Planning Permit No.-

Builder to allow for all works to comply and include all required conditions in accordance with the Planning Permit and shall be responsible that all Planning Conditions are met at the completion

Project Consultants List:-Consulting Structural Engineer-Consulting Civil Engineer-Consulting Fire Service Design-Consulting Land Surveyor-Consulting Geotechnical Engineer Consulting Landscame Designer-Consulting Mechanical Services Engineer-Consulting Electrical Engineer -

Consulting Hydraulic Engineer, Consulting Lighting Designer-

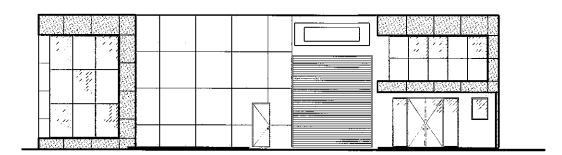
Site geotechnical investigation:-Refer to geotechnical investigation report no. :-

EXCELEMENTS SURVEYORS PIYLED BULDING PERMIT APPROVAL These Endorsed Plans and Specificalizate

form, part of the Building Permit. # Variation to family ND: 22003-2016061-0,

- Change in deachin of Stairs to

Wonehouse 2, & Engineering Variation
as pen Franc items. 12 APR 2018



21 KATHERINE DRIVE RAVENHALL

FIRE: EMERGENCY LIGHTING EXIT SIGNS ARE PORTABLE EXIT, DRY WATER FIRE BLANKETS FOR KITCHENS.

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i	bullding designers	***************************************	At:	21 KATHERINI RAVENHALL	DRI	IVE,	F			
			Client	THEO			T			
	registered building practitionar	L-Set I II Taktin Smi Balatana, 178 201	Job No;	1187	Dates	31.03.16		(A)	i. Unese diswings has not to be copied part or it whole with out the wealth went of the author	sheet no:01

A01 - COVER SHEET

A02 - SITE PLAN

A03 - GROUND FLOOR PLAN

A04 - FIRST FLOOR PLAN

A05 - ROOF PLAN

A06 - ELEVATIONS

A07 - SECTION/DETAILS

HRT CONSTRUCTIONS At: 21 KATHERINE DRIVE, RAVENHALL, VIC 3023

SITE AREA: 1596m² BUILT UP AREA: SITE COVERAGE: 814.83m² 51.05% PERMIBILITY:

LEDGEND

LB - LETTER BOX HWS - HOT WATER SERVICE MB - METER BOX BIN - RUBISH BIN R/BIN - RECYCLE BIN HW - HABITAL WINDOW NHW - NON HABITAL WINDOW GM - GAS METER RWT - RAIN WATER TANK

LB GM HWS MB A/BIN BIN RWT

(LEGAL POINT OF DISCHARGE) STORM WATER TO BE CONNECTED TO LEGAL POINT OF DISCHARGE AS PER LOCAL COUNCIL REQUIREMENTS

NOTE: SOIL TEST (ACE DRILLING) SITE LEVELS

(Home and Industrial Soil Test Pty Ltd)

NOTE: ADJACENT P.O.S TO BE PROTECTED FROM OVER VIEWING WITH A 1800h MIN. COLOURBOND FENCING.

NOTE: MATERIALS, COLOURS AND TEXTURES ARE SELECTED TO HIGHLIGHT THE ARCHITECTURAL FORMS AND REFLECT THE ADJACENT DWELLINGS

NOTE: BREAK UP LARGE FORMS WITH ARTICULATED DIMENTIONS IN PLAN AND ELEVATION, TO MAINTAIN A SCALE RELEVENT TO THE ADJOINING BUILDING.

SITE NOTES:

REFER TO: HOME AND INDUSTRIAL SOIL TESTING PLAN OF SURVEY FOR LOCATION OF CONTOUR INTERVALS, BOUNDARIES, FENCES, SURFACE PITS, VALVE COVERS ECT.

NO DIRECT KNOWLEDGE IS CLAIMED OF THE LOCATION OF UNDERGROUND SERVICES.

PRIOR TO ANY EXCAVATION OR CONSTRUCTION,
THE RELEVANT AUTHORITY SHOULD BE CONTACTED
TO LOCATE POSSIBLE UNDERGROUND SERVICES.

GROUND MUST BE GRADED AWAY FROM EXTERNAL WALLS AND SURFACE WATER PROPERLY DRAINED BY MEANS OF SURFACE/CUT-OFF DRAINS CONNECTED INTO SWD VIA SILT PITS

BLOCK BEARINGS MUST BE CONFIRMED PRIOR TO CONSTRUCTION.

ENSURE THAT ALL PRECAUTIONS ARE TAKEN TO PROTECT ADJOINING PROPERTY/PUBLIC DURING EXCAVATION/CONSTRUCTION/DEMOLISMION OWNERS OF ADJOINING PROPERTY MUST BE CONSULTED PRIOR TO REMOVING/ALTERING SHARED FENCING

NO PART OF THE PROPOSED STRUCTURE OR FOOTING IS TO ENCROACH THE TITLE BOUNDARIES

F.F.L. TO BE CONFIRMED ON SITE BY BUILDING SUPERVISOR AFTER COMPLETION OF SITE WORKS.

CONNECT STORMWATER TO LEGAL POINT OF DISCHARGE AS DIRECTED BY LOCAL COUNCIL & AS PER APPROVED DRAINAGE PLAN

SITE TO BE DRAINED TO THE SATISFACTION OF THE BUILDING SURVEYOR.

CONNECT PVC STORMWATER DRAIN AT 1:100 MIN. FALL, WITH INSPECTION OPENINGS AT 9M MAX. CTRS. AND AT CHANGE OF DIRECTION UNLESS NOTED OTHERWISE.

DOWNPIPE LAYOUT MAY VARY ON SITE SHOULD THE RELEVANT BUILDING SURVEYOR/COUNCIL REQUIRE IT.

DF: DOWN PIPE DPS: DOWN PIPE WITH SPREADER

DOWNPIPES TO BE PROVIDE AT MAX. 12M CENTRES

PROVIDE A.G. DRAINS WHERE REQUIRED & CONNECT TO S/WATER DRAIN VIA SILT PIT

CONNECT SEWERAGE AS PER RELEVANT AUTHORITY APPROVAL AND TO APPROVED DISCHARGE POINT. FINAL SEWER PIPE LAYOUT MAY BE ALTERED IF REQUIRED BY RELEVANT SEWER AUTHORITY.

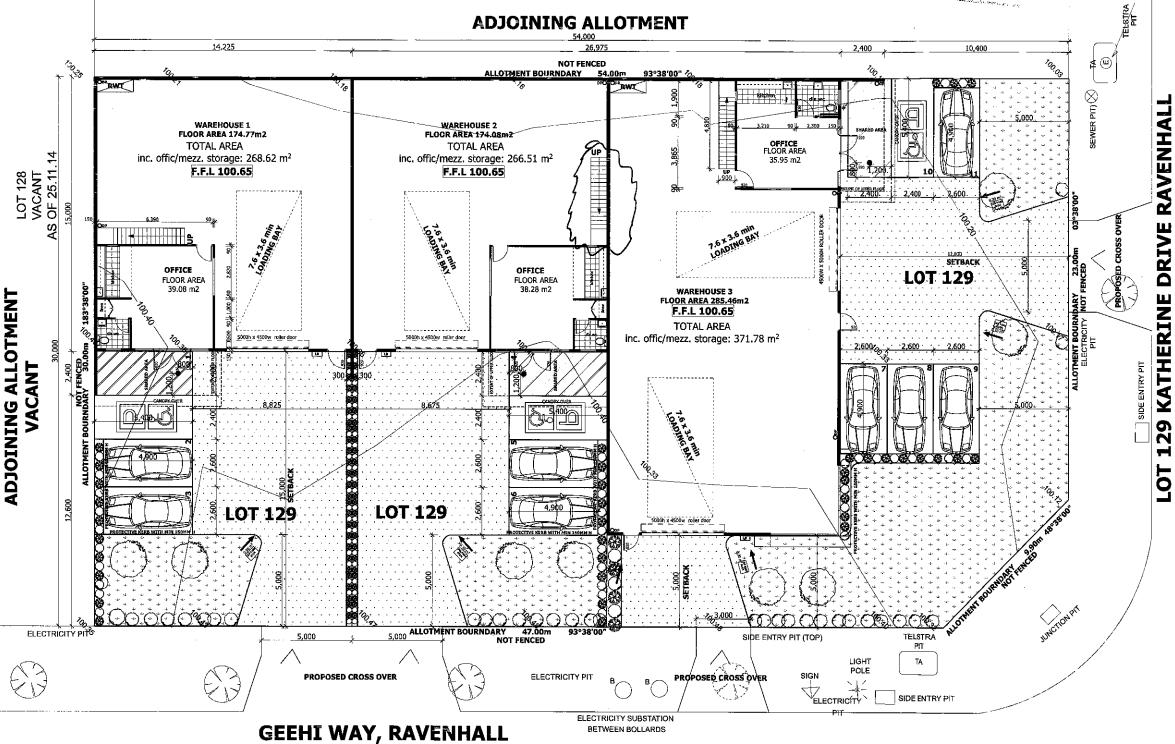
PROVIDE UPVC SEWER PIPE

LOCATION OF SECOND EXTERNAL TAP TO BE DETERMINED BY POSITION OF OVERFLOW RELIEF GULLY.

CUT / FIL PROFOSALS & FINISHED FLOOR LEVELS ON THIS SITE PLAN TO BE CHECKED & CONFIRMED PRIOR TO CONSTRUCTION BY THE BUILDER / OR SUB-CONTRACTORS.

LOT 130 VACANT AS OF 25.11.14

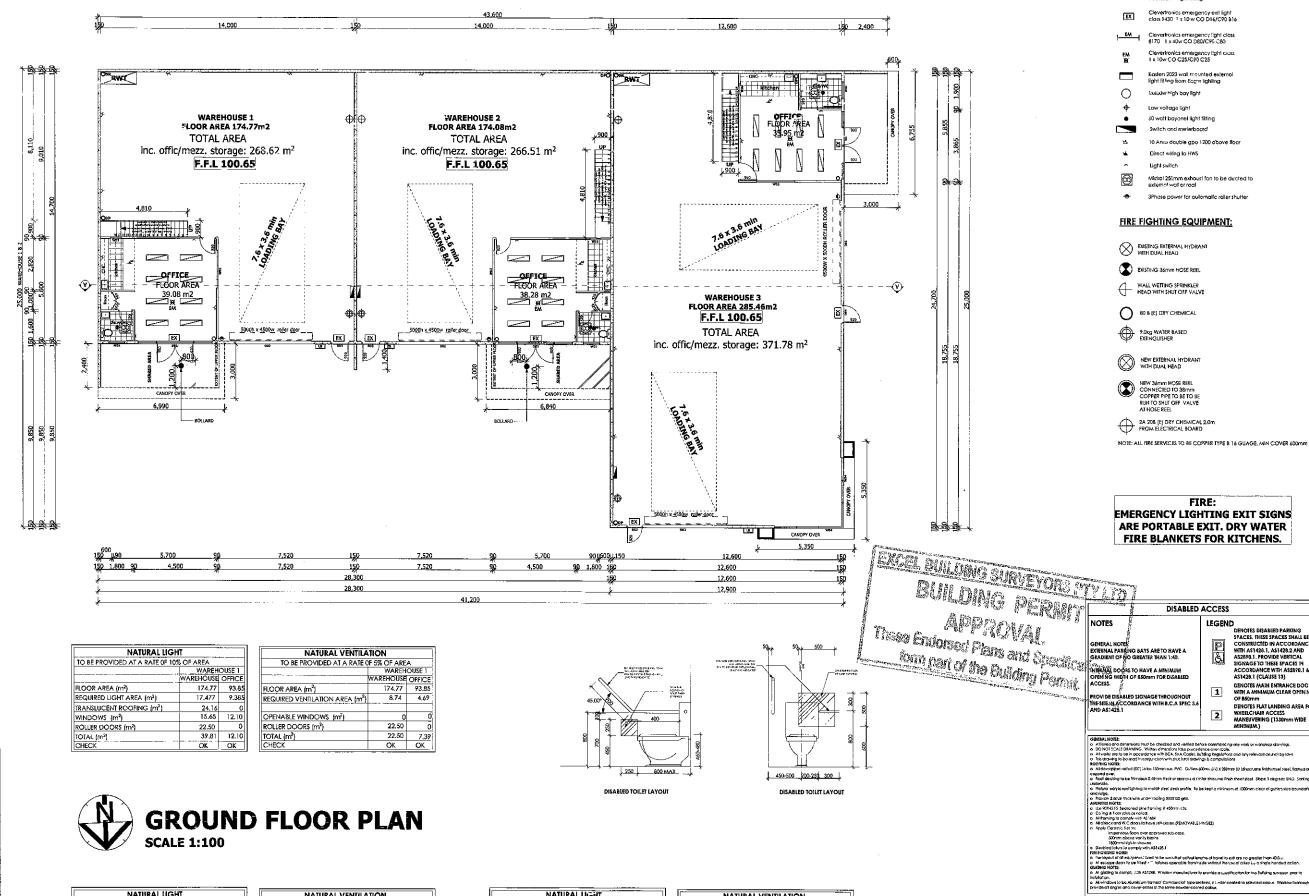






FIRE: EMERGENCY LIGHTING EXIT SIGNS ARE PORTABLE EXIT. DRY WATER FIRE BLANKETS FOR KITCHENS.

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registered building practitioner.	M (CALITY TO A	Job Ma:	1187	Pate:	31.03.16	C	Dese stravings are not to be cooled and on in whole with out the weeten one of the author	sheet no:02





AREA: ANALYSIS

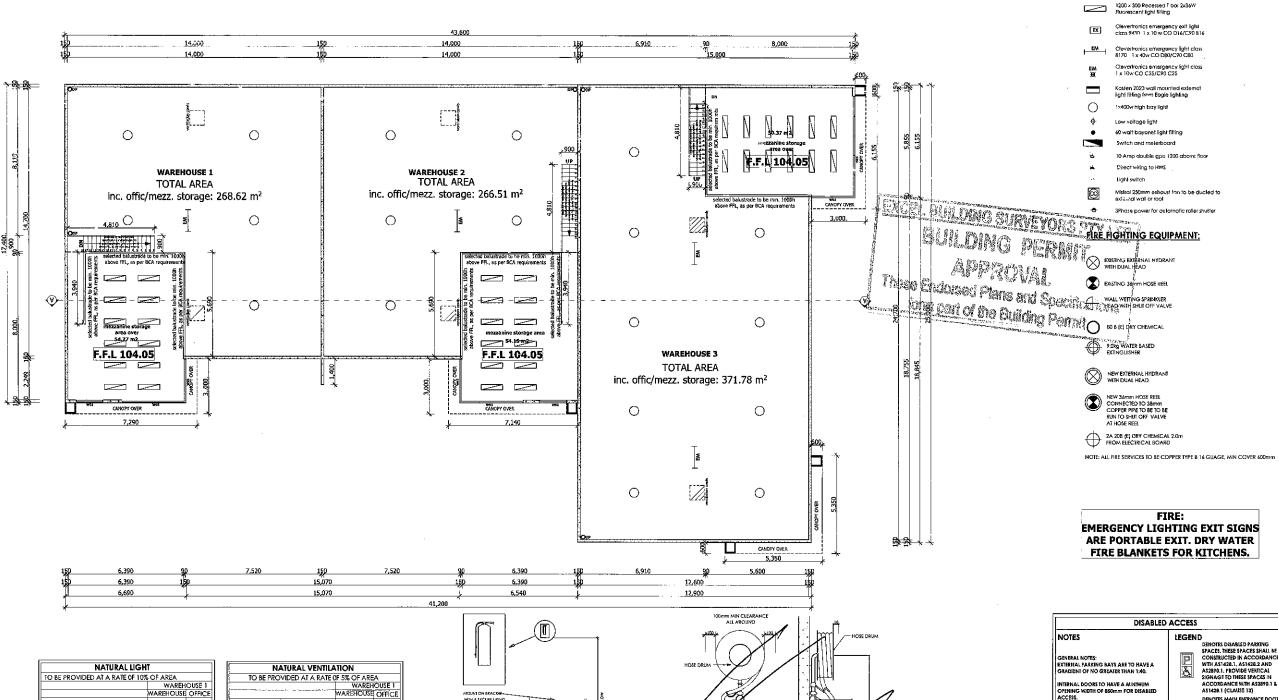


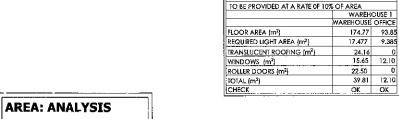
NATURAL VENTILA	ATION							
TO BE PROVIDED AT A RATE OF 5% OF AREA								
WAREHOUSE 2								
	WAREHOUSE	OFFICE						
FLOOR AREA (m²)	174.08	92.43						
REQUIRED VENTILATION AREA (m²)	8.70	4.62						
OPENABLE WINDOWS (m²)	0	(
ROLLER DOORS (m²)	22.50	C						
TOTAL (m²)	22.50	7.39						
CHECK	OK	OK						

NATUKAL LIG	HT		NATURAL VENTILA	ITION	
TO BE PROVIDED AT A RATE OF 10		TO BE PROVIDED AT A RATE OF 5% OF A			
	WAREH	OUSE 3	1	WAREH	
	WAREHOUSE	OFFICE		WAREHOUSE	OFFI
FLOOR AREA (m²)	285.46	86.32	FLOOR AREA (m²)	285.46	86.
REQUIRED LIGHT AREA (m²)	28.546	8.632	REQUIRED VENTILATION AREA (m2)	14.27	4.
TRANSLUCENT ROOFING (m²)	42.12	0			
WINDOWS (m²)	71.22	11.07	OPENABLE WINDOWS (772)	0]	
ROLLER DOORS (m²)	22.50	0	ROLLER DOORS (m²)	22.50	
TOTAL (m²)	113,34	11.07	TOTAL (m²)	22.50	5
CHECK	OK	_ OK	CHECK	OK [O

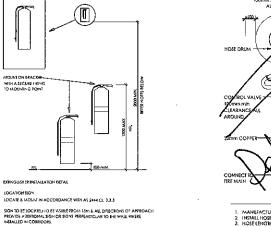
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building designers ************************************	At 21 KATHERINE DRIVE, RAVENHALL	
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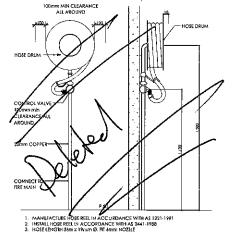
ELECTRICAL LEGEND





NATURAL VENTILATION							
TO BE PROVIDED AT A RATE OF 5% OF AREA							
	WAREH						
	WAREHOUSE	OFFICE					
FLOOR AREA (m²)	174.77	93.85					
REQUIRED VENTILATION AREA (m²)	8.74	4.69					
OPENABLE WINDOWS (m²)	0	0					
ROLLER DOORS (m²)	22,50	0					
TOTAL (m²)	22.50	7.39					
CHECK	OK	OK					





OF SOURT DENOTES FLAT LANDING AREA FO WHEELCHAIR ACCESS MANEUVERING (1330mm WIDE MINIMUM.)

a Novelscore to be in vocacionino with ECA, NA Codes, No observationing to be east on conjunction with volucious developed to the observation of the confidence of the code o

ELECTR!CAL LEGEND

2

174,08m² 92,43m² =266,51m² 366,75m²

285.46m² 86.32m² =371.78m² 411.37m²

TOTAL SITE AREA:

WAREHOUSE 1 FLOOR AREA: OFFICE FLOOR AREA:

LAND AREA: WAREHOUSE 2 FLOOR AREA: OFFICE FLOOR AREA:

LAND AREA:

LAND AREA:

FOTAL BUILT UP AREA: CARPARKING: FOTAL WORKSHOP AREA (Inc. admin / storage area)

OTAL CAR SPACES PROVIDED = 11

NATURAL LIGHT TO BE PROVIDED AT A RATE OF 10% OF AREA
WAREHOUSE 2 VAREHOUSE OFFICE FLOOR AREA (m²) REQUIRED LIGHT AREA (m2 17.408 9.243 TRANSLUCENT ROOFING (m²) 24.16 0 15.65 12.10 ROLLER DOORS (m²) TOTAL (m²) CHECK 22.50 0 39.81 12.10 OK OK

SCALE 1:100

NATURAL VENTILA	TION							
TO BE PROVIDED AT A RATE OF 5% OF AREA								
	WAREH							
	WAREHOUSE	OFFICE						
FLOOR AREA (m²)	174.08	92.43						
REQUIRED VENTILATION AREA (m²)	8.70	4.62						
OPENABLE WINDOWS (m²)	0	ó						
ROLLER DOORS (m ²)	22.50	0						
TOTAL (m²)	22.50	7.39						
CHECK	OK	OK						

FIRST FLOOR PLAN

NATURAL LIC	SHT				
TO BE PROVIDED AT A RATE OF 1	0% OF AREA				
	WAREHOUSE 3				
	WAREHOUSE	OFFICE			
FLOOR AREA (m²)	285.46	06.32			
REQUIRED LIGHT AREA (m²)	28.546	8.632			
TRANSLUCENT ROOFING (m2)	42.12	0			
WINDOWS (m²)	71.22	11.07			
ROLLER DOORS (m²)	22.50	0			
TOTAL (m²)	113.34	11.07			
CHECK .	OK	OK			

NATURAL VENTILATION								
TO BE PROVIDED AT A RATE OF 5% OF AREA								
	WAREHO							
	WAREHOUSE OFFICE							
FLOOR AREA (m²)	285.46	86.32						
REQUIRED VENTILATION AREA (m2)	14,27	4.32						
OPENABLE WINDOWS (m²)	0	0						
ROLLER DOORS (m²)	22.50	0						
TOTAL (m²)	22.50	5.40						
CHECK	OK	OK						

INTERNAL HOSE REEL INSTALLATION

NOTE: 180mm min CLEARANCE REQUIRED ALL AROUND DRUM & VALVE NOTE: REELS INSTALLED IN CUPBOARLS. SHALL BEINSTALLED AS CLOSE PRACTICAL TO HE BACK OF THE BOOK AND NOT MORE HIAM STIMM FROM THE BACK OF THE BOOK AND NOT MORE HIAM STIMM FROM THE BACK OF THE DOOR PROVIDE SUITUR SIGN WIRE MOSE REEL!

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M7 Design Group Pty. Ltd.	- nerren I-nerren	Proposed	WAREHOUSE DEVELOPMENT		data	amendments
building designers	*************************************	Att 21 KATHERINE DRIVE,		l		
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PROPOSED WAREHOUSE & OFFICE DEVELOPMENT AT AT: LOT 129, No. 21 KATHERINE DRIVE, RAVENHALL

STRUCTURAL STRUCTURAL NO. TITLE 501 COVER SHEET, GENERAL NOTES & DRAWING INDEX 530 FOOTING DETAILS 510 FOOTINGS & PAVEMENT PLAN 540 STRUCTURAL DETAILS - SHEET I 511 FIRST FLOOR FRAMING PLAN STRUCTURAL DETAILS - SHEET 2 512 ROOF FRAMING PLAN 520 PRECAST PANEL ELEVATIONS - SHEET 1 521 PRECAST PANEL ELEVATIONS - SHEET 2

EXCEL BILLONG SHARE AOUS LLAFED BUILDING PERMIT APPROVAL to Endoned Flans and appeared. 12 APR 2010 Those Endorsed Flans and Specifications

MAINTENANCE NOTE:

THE BUILDER AND OWNERS OF THE RESIDENCE MUST MAKE THEMSELVES FAMILIAR WITH THE REQUIREMENTS OF THE THE WELLES FAMILIAR WITH THE REQUIREMENTS OF THE DOCUMENT.

CSIRO BUILDING TECHNOLOGY FILE BTF 18 "FOUNDATION!

MAINTENANCE & FOOTING PERFORMANCE - A HOME OWNERS

GUIDE
AND APPLYTHE REQUIREMENTS TO THE CONSTRUCTION AND MAINTENANCE OF THE SITE. SUCH INFORMATION MUST BE PASSED ON WITH SUBSEQUENT CHANGES OF OWNERSHIP OF THE HOUSE.
COPIES ARE AVAILABLE FROM CSIKO OR OUR OFFICE.

GENERAL NOTES:

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE
- CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH
 OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE
 OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE
 ENGINEER OR ARCHITECT BEFORE PROCEEDING WITH THE WORK

 2. ALL DIMENSIONS ARE TO BE OBTAINED FROM WORKING DRAWINGS OR FROM SITE.
 ENGINEERS DRAWINGS MUST NOT BE SOALED.

 3. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE
 FOR MARTIANING THE STRUCTURE IN A STABLE CONDITION AND ENSURING
 NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.

 4. MATERIAL AND WORKAMISHEP ARE TO BE IN A COOPDIANCE WHE
 RELEVANT CURRENT SAA CODES EXCEPT WHERE VARIED BY THE
 PROJECT SPECIFICATION.

 5. THE APPROVAL OF SUBSTITUTION BY THE ENGINEER IS NOT AN
 AUTHORISATION FOR AN EXTRA ANY EXTRAS INVOLVED MUST BE
 TAKEN UP WITH THE PRINCIPAL CONSULTANT OR SITE ENGINEER
 BEFORE WORK COMMENCES.

 THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED
 FOR THE FOLLOWING LOADS:

 POOF

ROOF OFRICE FLOORS WAREHOUSE

0.25 KPa 3.00 KPa 2.4 KN/M OF STORAGE HEIGHT

FOUNDATION MATERIAL TO BE APPROVED BEFORE POURING CONCRETE FOR A SAFE BEARING CAPACITY OF : 150 KPa, STRIP FOOTING (300mm INTO NATURAL CLAY) 150 KPa, PAD FOOTING

G6. PREPARATION OF SUB-BASE FOR SLABS ON GROUND: CLEAR AREA U: 10EH SLAB OF ALL TOP SOIL CONTAINING HUMUS AND VEGETABLE MATTER 100 MIN. AND REMOVE FROM SITE. CUT OR FILL UNDER SLAB 10 PRODUCE REQUIRED PINISHED LEVELS CUT OR FILL UNDER SLAB TO PRODUCE REQUIRED FINISHED LEVELS
AS SHOWN ON THE DRAWNICS. AT I FILL SHALL BE IMPORTED AND
CONFORM TO R.C.A. STAN-1-AID SPECIFICATION FOR CLASS 3 CRUSHED
ROCK, (A-TIME NOMINAL SIZE). FILL SHALL BE PLACED IN MAXIMUM 150mm
LOOSE LAYERS AND COMPACTED TO 95% OF THE MODIFIED DRY DENSITY
WHEN TESTED IN ACCORDANCE WITH AS 1:289.
THE UPPER LAYER OF THE BENCHED SURFACE SHALL BE WITHIN 55% TO
115% OF OFTIMUM MODIFIED CONTROLT AND BE PROPERLY COMPACTED TO
90% MODIFIED MAXIMUM DRY DENSITY WHEN TESTED IN ACCORDANCE
WITH AS 129.

90% MODIFIED MAXIMUM DRY DENSITY WHEN TESTED IN ACCORDANCE WITH A STUSS OF PACKING SAND SHALL BE SPREAD OVER THE SUB-BASE TO A THICKNESS OF FORM AND THOROUC: "LY ROLLED AND COMPACTED TO A SMOOTH, LEVEL SURFACE. THE LAYER SHALL BE MUSTENED PRIOR TO PLACEMENT OF THE MOSI. SIRE BARRIER. A MOISTURE BARRIER OF 0.2mm ORANGE POLITHENE MEMBRANE IN '9500 WIDE SHEETS LAPPED 150 "AND JOINED WITH 75 WIDE PRESSURE SENSITIVE TAPE SHALL BE LAID UNDER ALL SLABS AND WALLS IN CONTACT WITH THE GROUND.

GEOTECHNICAL NOTF:

THESE DRAWINGS ARE TO BE READ IN CONJUCTION WITH THE GEOTECHNICAL ADVICE -

PREPARED of - ABH SOIL TESTING & SURVEYING REPORT No. 5473
DATED - 05. 2.14

THIS REPORT SHALL BE CONSULTED PRIOR TO ANY EARTH WORKS TAKING PLACE

CONCRETE NOTES:

PRECAST PANEL DETAILS

. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH ASS600 . CONCRETE COVER TO ALL REINFORCEMENT (FINISHES NOT INCLUDED)

ELÉMENT FORMED AND FORMED AND NO FORM WORK SHELTERED EXPOSED

30 MM 65 MM SLAB 25 MM FOOTINGS C3. CONCRETE SIZES SHOWN DO NOT INCLUDE FINISHES AND MUST NOT BE REDUCED

C3. CONCHETE SIZES SHOWN DO NOT INCLUDE HINISHES AND MUST NOT BE REDI.
OR HOLED IN ANY WWY WITHOUT THE SNGINEERS A PPROVEL.
4. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE PROPERLY POPIMED
AND LOCATED TO THE APPROVAL OF THE ENGINEER.
C5. REINFORCEMENT SHOWN DUGGRAMMATICALLY AND NOT NECESSARILY IN
TIS TRUE PROJECTION.
C6. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN.
WELDING OF REINFORCEMENT WILL NOT BE PERMITTED UNLESS SHOWN ON
THE STRUCTURAL DRAWINGS.

FABRIC IS TO HAVE A MINIMUM LAP OF: - 1 225 (SL32 125) PAFT SLAB

C7. REINFORCEMENT SYMBOLS:
N. TEMPOCRE DEFORMED BOUND BAR TO AS1302 410Y
N. STRUCTURAL CRADE PLAIN ORD/LIND BAR TO AS1302 410Y
N. STRUCTURAL CRADE PLAIN ORD/LIND BAR TO AS1304
F. HAND DRAWN STEEL WIRE REINFORCEMENT FABRIC TO AS1304
F. HAND DRAWN STEEL WIRE REINFORCEMENT FABRIC TO AS1304
F. HAND BOR FOLLOWING THE BAR SYMBOL IS THE NORMAL D'A DIAMETER IN IMM.
C8. CONCRETE COAPONENTS AND QUALITY SHALL BE AS FOLLOWS:

SLUMP MAX. AGGREGATE SIZE TYPE

R.C. panels 40 Mpa

SLAB & WALLS FOOTINGS NORMAL DENSE NORMAL DENSE

CONCRETE GRADE E...ding concrete 15 Mpa Foolings & Pads 25 Mpa Warehouse Slab 32 Mpa

C9. ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION SO AS NOT TO BE DISPLACED DURING CONCRETING, ON APPROVED BAR CHAIRS AT 1M MAX. CTS. SOTH WAYS. WHERE REQUIRED PROVIDE SUPPORT Y12 BARS AT 1 MAY CTS.

AK. OTS. RETE IS TO BE KEPT FREE, OF SUPPORTING BRICKWORK BY TWITE AYERS OF C10. CONCRETE IS TO BE KEPT FREE OF SUPPORTING BRICKWORK BY TW-1: AYERS OF SUITABLE MEMBRANE (MALTHOL), ETO) OR AS DIRECTED BY THE ENJAINEER VERTICAL FACES OF CONCRETE TO BE KEPT BY 10 MM THICKNESS OF CONCRETESSIBLE STYRENE FOAM.

C11. WHERE WALLS ARE NON-LOAD SLARING AT ETHER HORIZONTAL OR VERTICAL FACES THEY SHALL BE SEPARATED FROM CONCRETE BY 10 MM THICK COMPRESSIBLE STYRENE FOAT.

C12. ALL REINFORGEMENT FOR ANY ONE POLT. SHALL BE COMPLETELY PLACED AND THE PRIOR TO INSPCTION BY THE ENGINEER NO CONCRETE SHALL BE POURED UNTIL REINFORGEMENT HOR BY THE ENGINEER NO CONCRETE SHALL BE POURED UNTIL REINFORGEMENT HOR SEEN INSPCTED AND "PPROVED.

C12. "WHERE SLABS AND PRIME ARE TO SUPPORT BRICKWORK OVER, FORMWORK AND PROPS MUST BE REMOVED BEFORE COMMENCEMENT OF BRICKWORK

STRUCTURAL STEELWORK:

\$1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS4100

\$2. WELDING SHALL BE PERFORMED BY AN EXPERIENCED OPERATOR AND IN ACCORDANCE WITH AS159 PARTS 13.

13. TWO COPIES OF THE SHAP DETAIL DRAWINGS ARE TO BE SUBMITTED TO THE ENGINEERS APPROVAL OF SAME OBTAINED BEFORE COMMENCING FABRICATION.

31. THE CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE UNIT, PERMANENT BRACKG ELEMENTS ARE CONSTRUCTED SUCH TEMPORARY BRACINGS AS IS NECESSARY TO STABILIZE THE STRUCTURE DURING ERECTION.

52. CAMBER TO STRUCTURAL STEEL ROOF BEAMS, TRUSSES, PORTALS ETC. TO BE 2. MM FOR EVERY I MO'S PAR UNLESS OTHERWISE NOTED.

53. ALL CLEATS AND DRILLINGS FOR FIXING OF TIMBET MEMBERS ETC. TO BE PROVINCE BY FABRICATION.

54. EXCEPT WHERE OTHERWISE SHOWN CONNECTIONS SHALL HAVE 6 MM CONTINUOUS FILLET WELDS, 2-MICE MATERIALS FOR STALL FRANCE.

S8. UNLESS NOTED OTHERWISE, CORROSION PROTECTION OF STEEL WORK SHALL BEAS.

LOWS

- ALL STEELWORK SHALL BE PAINTED WITH ONE COAT OF APPROVED ZINC
PHOSPHATE PRIMER.

- ALL EXPOSED STEELWORK INCLUDING BOLTS AND FIXING SHALL BE HOT DP
GALVANISED. IN CASS OF COMPOSITE BEAMS WHERE THE BHEAR
CONNECTORS ARE INTENDED TO BE AUTOMATICALLY WELDED TO THE BEAMS
ON SITE THROUGH METAL FORMWORK, THE EXTERNAL SUFFACE OF THE BEAM
IN CONTACT WITH THE SHEAR CONNECTORS SHALL NOT BE HOT DIP
GALVANISED TO AVOID DIFFICULITIES WITH THE ALL TOWATIC WEIGHTING
CONTRACTOR TO SEEK FURTHER ADVICE FROM RELEVANT MANUFACTURES AND/OR SPECIALIST ALL STRUCTURAL STEELWORK BELOW GROUND TO BE ENCASED BY CONCRETE

75/11/1 THICK
ALL ROUND AND STEELWORK TO BE GALVANISED WITHIN ENCASEMENT TO
150/mm ABOVE.
- 315EL SURFACES MUST NOT BE PAINTED/GALVANISED IF MEMBER IS TO BEFRE

- STEEL SURPACES MUST NOT BE PAINTED/GALVANISED IF MEMBER IS TO BE FIRE SPRAYED OR FRICTION CRIP BOLTED.

- DAMAGE TO STEELWORK ON SITE TO BE MECHANICALLY WIRE BRUSHED AND PAIMED WITH ZINC RICH EPUXY PRIMER.

PURLINS AND GIRTS:

PURLINS AND GIRTS LAYOUT IS DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS OF ANY APPITIONAL PURLINS AND TRIMMERS AND THEIR PRECISE

COCATIONS.

PG2. REFER TO PLAN FOR PURILIN SIZES AND SPACINGS, PURILIN CRACING TO BE HOPM-LOK BRIDGING OR SIMILAR INSTALLER TO PURILIN MANUFACTURERS (2...) ZUREMENTS, DIAGONAL SAG RODS TO BE 12mm Dia, PENETRATING PURLINS AS REQUIRED

PG3. PURLIN CONNECTION TO SE 8mm THICK PLATE, 2mm CFW, 2-M12 4.5/S BOLTS PG4. GALVANISED PURLINS AND GIRTS TO CONFORM WITH 191397 - G450 - Z100 (180GM/M ZINC COATING AND 450 MF2 YIELD STRESS)

BOLT TYPE & PROCEDURE:

REFERS TO COMMERCIAL BOLTS OF STRENGTH GRADE 4.6 CONFORMING TO AS 1111 AND TIGHTS. JED USING A STANDARD WRENCH TO A "SNUG TIGHT" CONDITION.

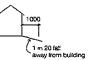
TO ASTACE AND TIGHT CONDITION.

TO ASTACE AND TIGHTENED USING A STANDARD WRENCH TO A "SNUG TIGHT" CONDITION.

REFERS TO HIGH STRENGTH GRADE 8.8 CONFORMING TO AS1252 AND FULLY TENSIONED IN A CONTROLLED MAYINER TO THE REQUIREMENTS OF AS151:

SITE DRAINAGE

SD1. Sites should be dreined so that water cannot pond against or near the house. The ground immediately adjacent to the house should be graded to fall 50mm over the first metre. Where this impractable (fier on several sloping sites) use A.G. dreine adjacent to footings where the ground falls towards the building, refer to del-ris believ).





SOIL SLOPING AWAY BUILDING SOIL SLOPING TOWARD BUILDING

- SD2. Discharge from the downpipes must be directed away from the building during construction to ensure water does not discharge or pond adjacent to footings.
- SD3. For all sites the natural ground immediately adjacent to the house shall be graded to a uniform fall of 50mm mm, away from the house over the first mere. The orisce water and sub-surface water is to be drained to a legal point of discrivings.
- SD4. For paved areas abutting footings, grade finished surface with 1:60 fall away from building.
- SD5. Watering and garden berts are not permitted adjacent to buildings(s) and adjacent to the perimeter concrete psaving stab. Shallow (SOOmm max) aggricultural drains to be installed believely ground level at the outer perimeter of the concrete psaving stab connected to legal point of discerange.

 Sub-surface water in the form of perched water table may occur where say clays and sends overly impermeable day. Where this occurs and agricultural drain met the provided to divert the flow of water away from the footing system. This crain should be emberted into immermable day. Special attention should be made not to undermitted the footing.

 SD8. Builder/owner to provide site drainage to prevent surface soil saturation or water ponding near feetings.

- SDir. Care shall be taken with surface drainage of the allotment from the start of construction. The drainage system shall be completed by the finish of construction of the these.
- SOP Flumbing trendium shall be sloped away from the house and shall be baddled with day in the top 300mm within 1.5m of the house. The clay used for baddling shell be compacted Where pipes pass under the footing system, the trench shall be baddled with clay or concrete to restrict the ingress of water beneath the footing system.
- SD9. Subsurface drains shall he free draining and shall be able to be inspected and maintained Subsurface Grains shall be protected by filters and geotextile.

NOTE: Wherever practicable, subsurface drains should be avoided near fortings

SD10.Refer to section 5 and 6 AS2870-1996 and AS2870-2011 for full set of detailing and

SD11.Refer to soil test and detail sheets for additional construction and maintenance requirements which form part of this design

THE FOOTING DESIGN IS BASED ON A SITE HAVING PROPER SUFE DRAINAGE.

IF THE AROVE F. PAINAGE REQUIREMENTS CANNOT BE ACHIEVED CONTACT THIS OFFICE FOR FURTHER ADVICE.

_ D	6.04.18	AMENDEMENTS DUE TO SITE ISSUES RB4	pp				
		AS CONSTRUCTED ON SITE CONNECTIONS ANGLE/CLEAT					
C	23.03.18	AMENDEMENTS DUE TO SITE ISSUES RB2/RB2	PP	ļ	T		
		CONNECTIONS/FLLOR JOISTS OPTION IN PURLINS.	i –	Г		1	
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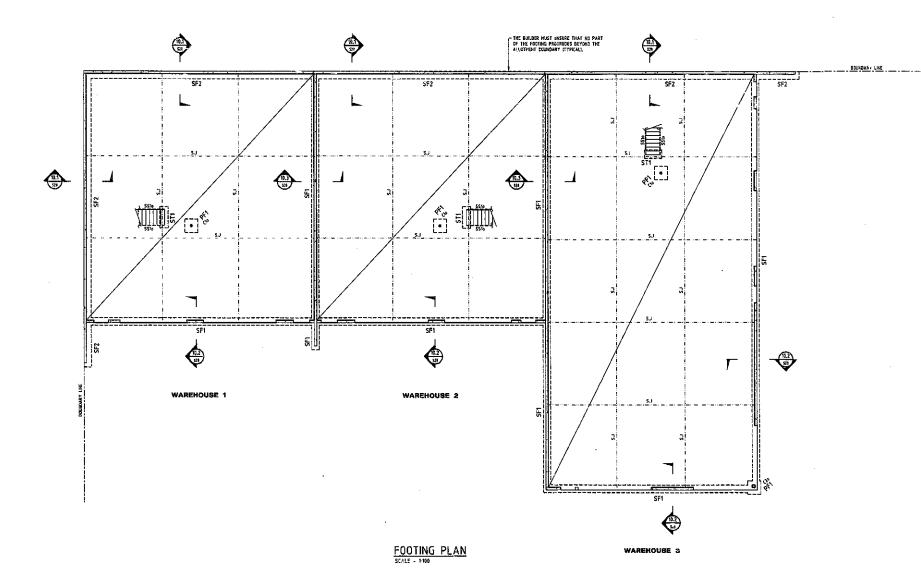
ph: 03 9331 7522 fax: 03 9331 7322

COVER SHEET DRAWING INCEX & GENERAL NOTES

Besigned by	Р Р	CUENT	Stale & A1 SIZE	œtei OTED
Crawn by	τн .	M7 DESIGN GROUP	Jeb No.	626
Checked by	RB	PROPOSED WAREHOUSE & OFFICE DEVELOPMENT AT LOT 129, No. 21 KATHERINE DRIVE, RAVENHALL	Drawling No.	Rev.

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FOOTING SCHEDULE DESCRIPTION 4112 BARS TOP & BOTTOM, PIG LIGS & 900 CTS.

4112 BARS TOP & BOTTOM, PIG LIGS & 900 CTS.

4112 BARS TOP & BOTTOM, PIG LIGS & 900 CTS. 800 x 800 x 700 DEEP PAD FORING SL62 MESH TOP 2 SOTTOM ST1 300 DEEP x 500 WIDE SLAB THORENING SLB2 NEAR BOTTOM

FOUNDING NOTE:
ALL FOOTHIGS ARE TO BE FOUNDED 389 NITO THE NATURAL UNDISTURBED CLAY
NATERIAL APPROXIMATELY 1300 TO 2100mm BELOW, GROUND LEVEL, AS MOTED IN THE
SOIL REPORT WITH A BEARING (APACITY OF 158 KPA, TO BE CONFIRMED ON SITE.

PROTECTION WORKS TO ADJOINING NEIGHBOURING PROPERTIES

REFERENCE MUST BE MADE TO THE ENDORSEO ARCHITECTURAL DRAWINGS

THE CONSTRUCTION WORKEN PROPERTY BY ADDRESS

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INFILL SLAB

150 THICK PAYING SLAB ON 0.2mm POLYTHENE MEMBRANE.

SL27 MESH TOP. 25 COVER.

ON 50mm PACKING SAND 8.200mm F.C.R BASE ON WELL COMPACTED SUB GRADE TO 78%.

MMOD OR BETTER.

_____S.J - DENOTES SLAB SAWCUT JOINES @ 5000mm MAX. CTS.

GEOTECHNICAL NOTE:

THESE DRAWINGS ARE TO BE READ IN CONJUCTION WITH THE GEOTECHNICAL ADVICE -

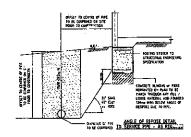
PREPARED BY - ABH SOIL TESTING & SURVEYING REPURITM: 5472
DATED - 05.12.1 ;

THIS REPORT SHALL BE CONSULTED PRIOR TO ANY EARTH WORKS TAKING PLACE

EMETING SHIPMERS LOTE:
THE CONNECTOR THALL VISES YILL DESIGNING, LOCATION AND LEVEL
OF ALL DISTRIC, SERVICES ON THE PRIOR TO COMPONENT
OCCUMULTION, AND AND AND THAT RESIDENCE SERVICES
REQUEST BY ALTHOROUGH THAT AND THE CONNECTORS EXPENSES.
OCHTRACTORS SHALL ISS. RESISTANCE TO THE CONTRACTORS EXPENSES.

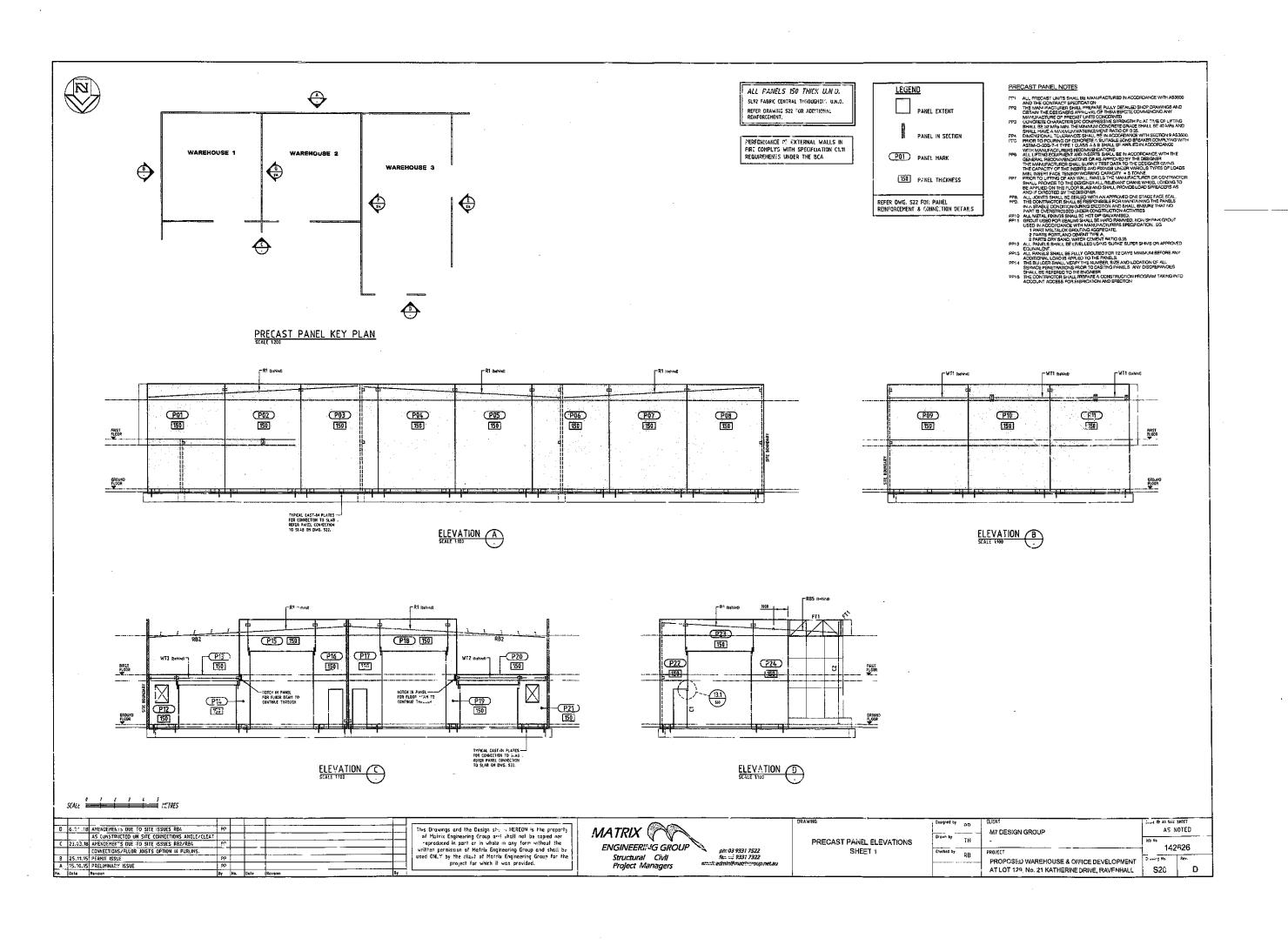
PREPARATION OF SUB-BASE FOR SLASS ON GROUND

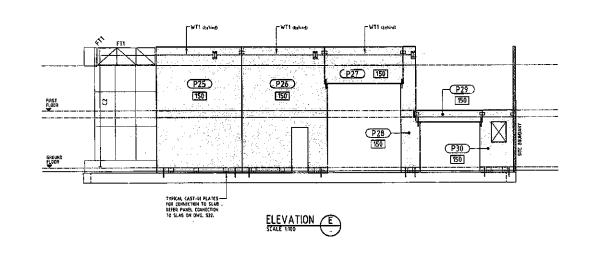
- P1. Clear area under slab of all top soil containing humas and veg-table matter Wümm min.
- P3. Excavate & remove the top 400mm of surface material to the area of the proposed
- P3. Provide fill under stab where required to produce finished levels as shown on plans. At fill shall be imported and conform to R.C.A. standard specification for reast 3 crushed rack 20mm non sizes. Fill to be compacted in 200mm nost loyers to 95% of the modified max dry density (M.M.D.D.) when tested in occordance with AS 1289.
- P4. The upper layer of the cut surface shall be within 85% to 115% of ephnum mois ure content and to be properly compacted to 95% M.M.D.D.
- PS. A 50mm nin, base course of packing sand shall be spread over the sub-base and to unharmoughly railed and compacted to a smooth level surface. The sand shall be multipled prior to the placement of a D.Zoom polythene membrane in 1500mm nin, wide studies topped 150mm and packed with 150mm wide pressure vensitive tage. The tape shall be leid under all slabs and units in contact with the ground.

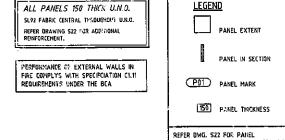


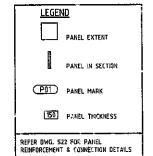
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Δ 15.10.15 PRELIMINARY ISSUE PP No. Carb Revision By No. Carb Revision By	project for which it was provided.	Project Mahagers email: admin@matthgroup.net ##			AT LOT 129, No. 21 KATHERINE DRIVE, PAVENHALL	S10	U









PRECAST PANEL NOTES

- PRECAST PANEL NOTES

 PPI ALL PREOAST UNITS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASSECT

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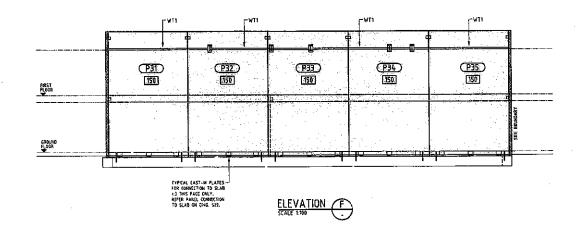
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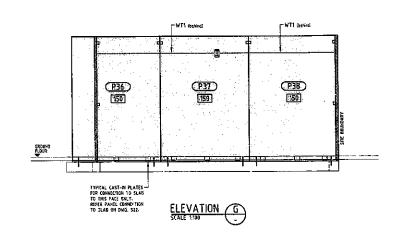
 THE CAPACITY OF THE INSISTS AND PROVIDE UNIT OF THE MENDAL FOR THE CONCRETACION

 SHALL PROVIDE TO THE DESIGNER ALL RELEVANT CAMPS WHEEL LOADING TO

 BE APPLIED ON THE FLOOR SHALL PROVIDE DOOR OF PREVIOURS OF

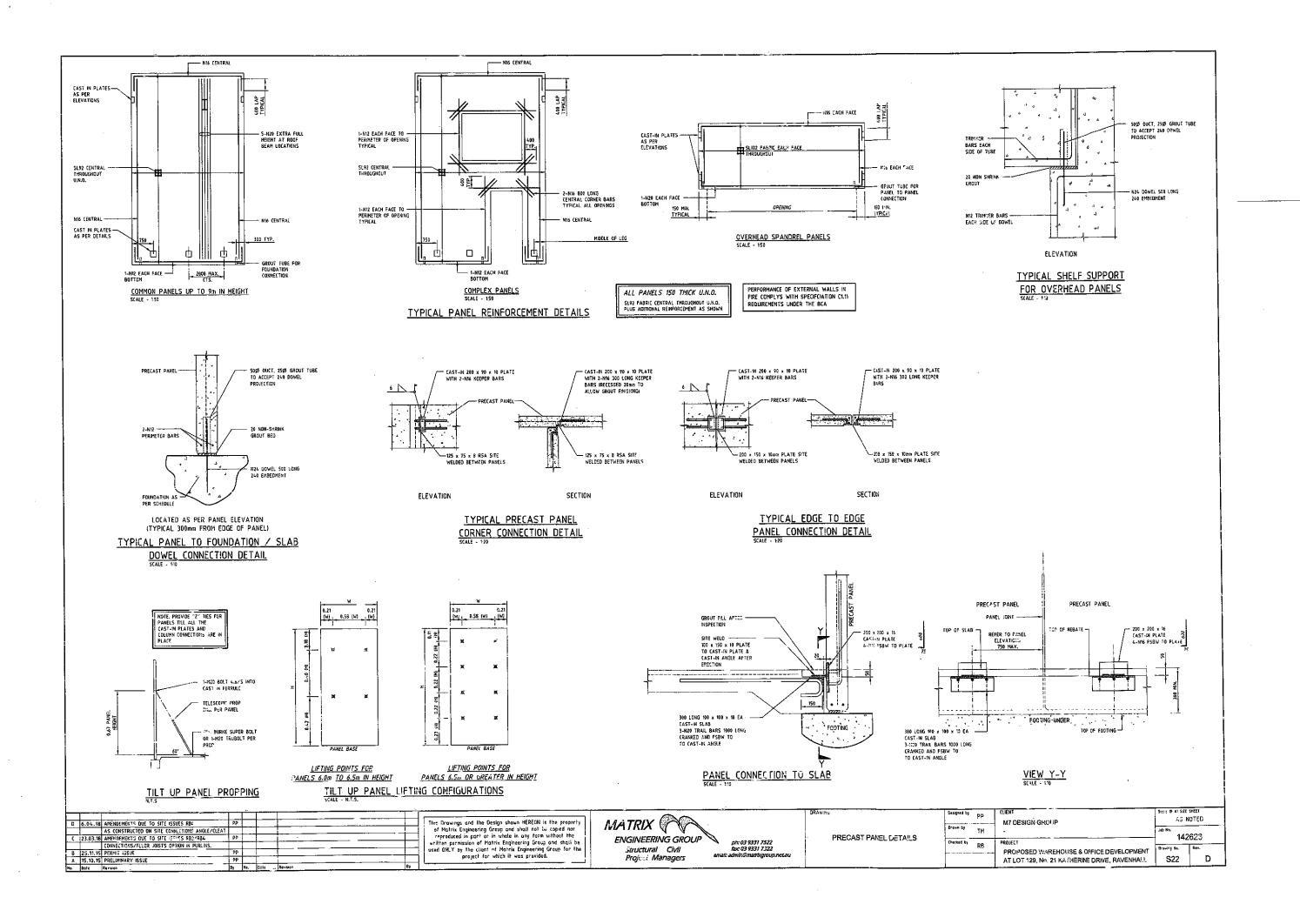
- 2 PARTS PORTLAND CEVENT TIPE A
 2 PARTS POR SAND, WATER CEVENT RATIO 0.35
 PP12. ALL PARLES SHALL BE LEVELED USING SUPPLY SUPER SHAMS OR APPROVED
 EQUIVALENT
 PP13. ALL PARLES SHALL BE PLUY GEOUTED FOR 12 DAYS MINIMUM BEPORE ANY
 PP14. THE PRAIS SHALL BE PLUY GEOUTED FOR 12 DAYS MINIMUM BEPORE ANY
 PP14. THE BULDER SHALL VERIFOT THE MUMPERS SIZE AND LOCATION OF ALL
 BERMITE PRINCIPATIONS FROM TO CASTRING PANLES. ANY
 PP15. THE CONTRACTOR SHALL VERIFOT THE MUMPERS ACCOUNT OF CONTRACTOR SHALL REPEARES A CONSTRUCTION PROGRAM TAKING INTO
 ACCOUNT ACCESS FOR FASRICATION AND ERECTION

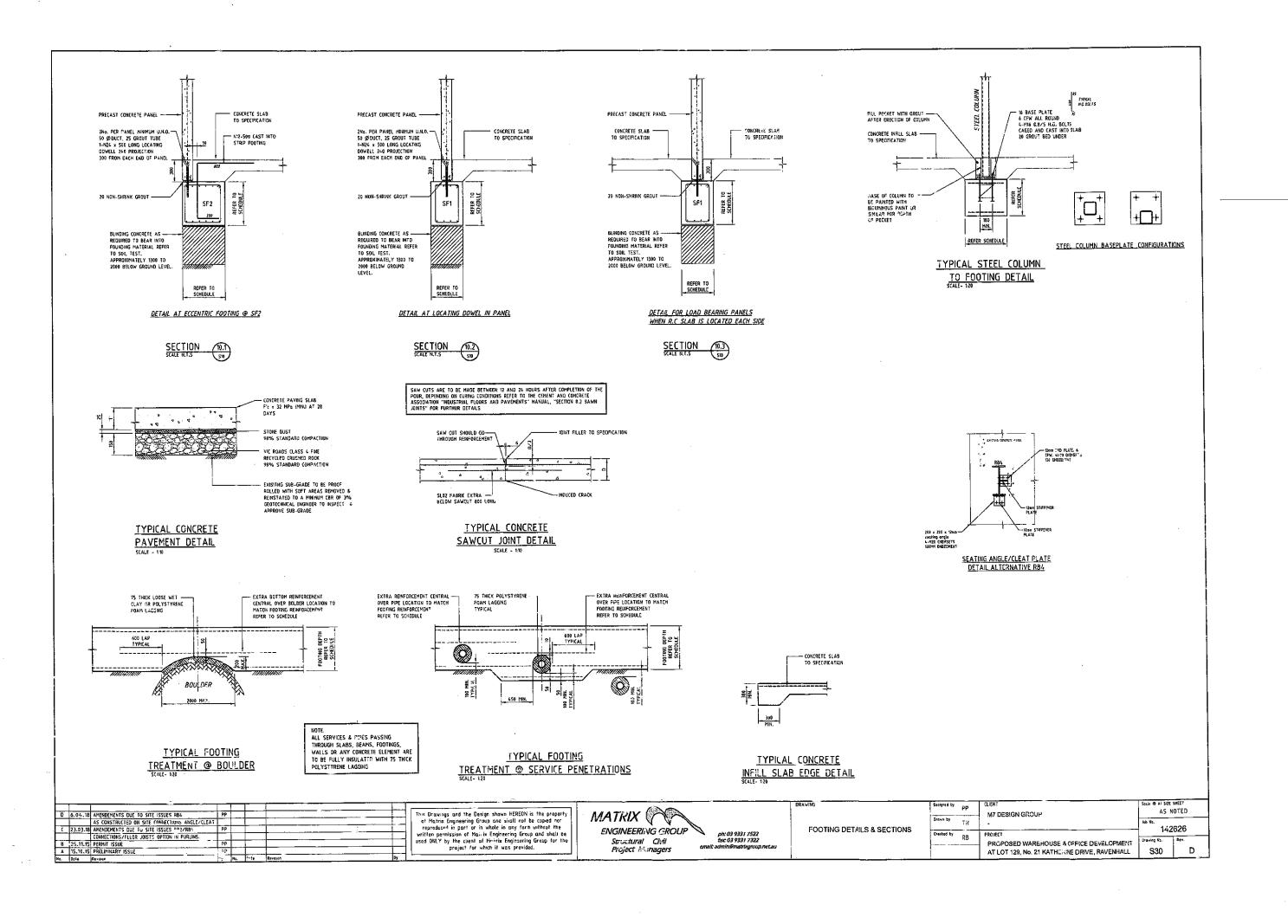


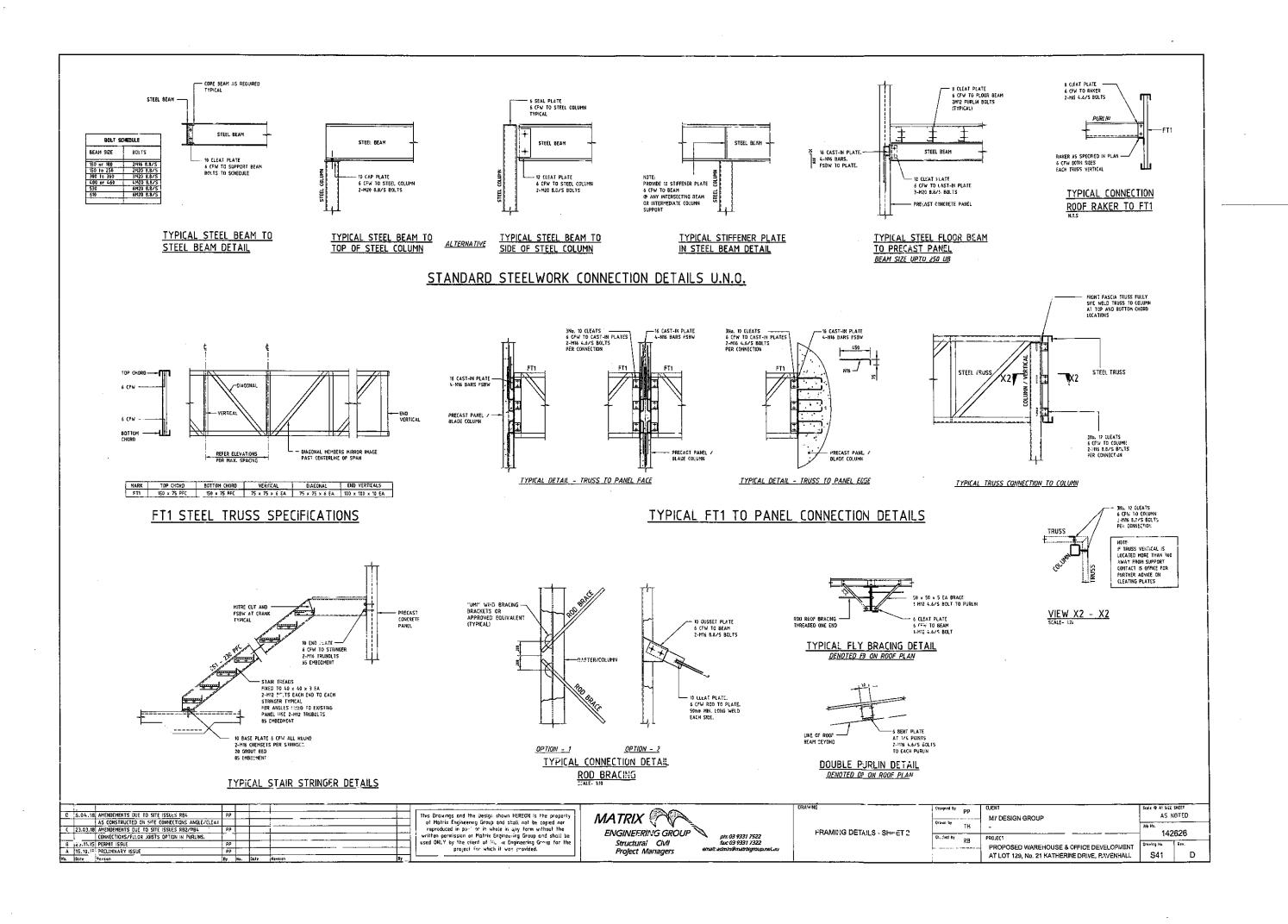


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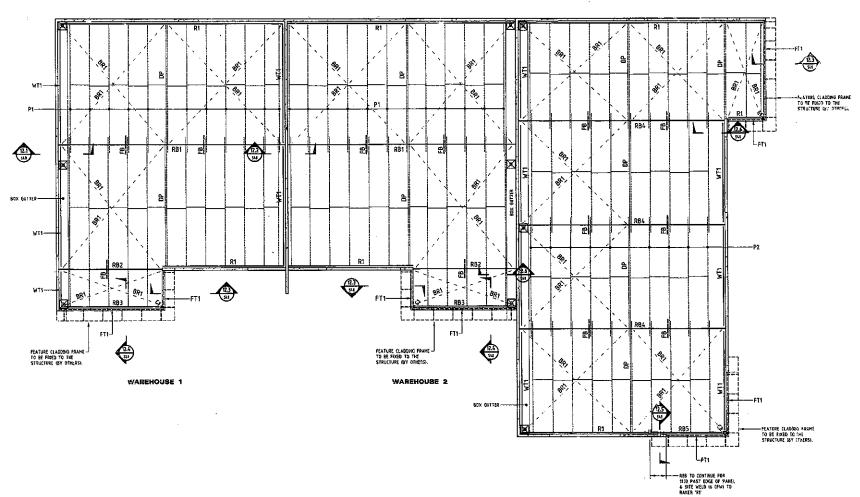
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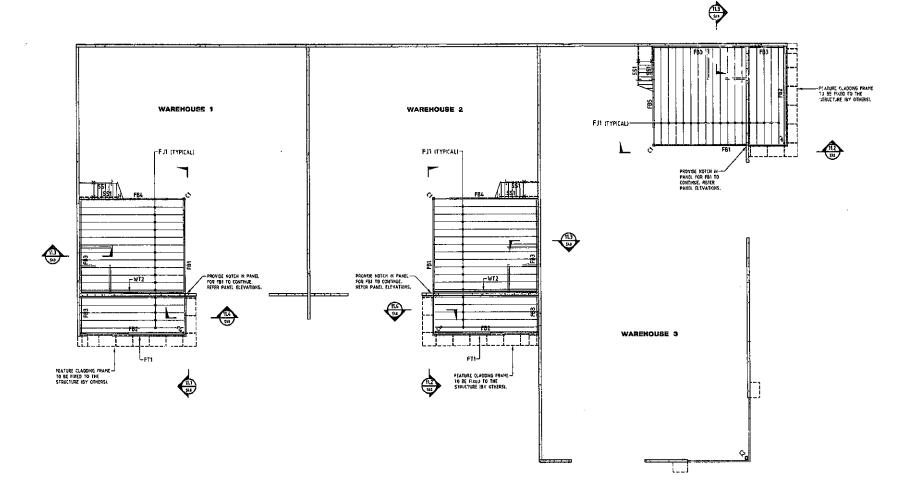
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FLYBRACE AT MID-SPAN
TOES OUTWARDS
FLYBRACES AT 1/3 POINTS
TOES OUTWARDS RIFER SECTION 12,5 DM SLB FY1 FASCIA TRUSS REFER TYPICAL TRUSS SPECIFICATION ON SAI TOES DOWN, RESTRAINED AT MO-SPAN, REFER TYPICAL DETAILS. WT1 280 PFC R1 150 x 150 x 10 EA. RAXER WELDED TO FASCIA TRUSS & FIXED TO PRECAST PARELS 900 LAPS. 1 ROW OF BRIDGING. 900 LAPS. 1 ROW OF BRIDGING. DP DOUBLE PURLIN BR1 20 DIA, M.5 ROD ROOF BRACING

ROOF FRAMING PLAN

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MARK	DESCRIPTION	REMARKS
ıı	100 x 100 x 4,0 SHS	-
FB1	380 PFC OR 410 UB 53	
FB2	250 PFC	-
FB3	150 x 150 x 16 EA.	FIXED TO PRELAST PANELS
584	3 No. FJ1 JOISTS	TRIPLE FLOOR JUISTS
FJI	FLOOR JOISTS TO MANUFACTURER'S DESIGN 4 SPECFICATIONS	3.0LPa DESIGN LOADING
ΦŘ	250 (24 PURLING & 450 CTRS	FLOOR JOISTS
FT1	FASCIA TRUSS	REFER TYPICAL TRUSS SPECIFICATION
MLS	100 P/C . FT	REFER TYPICAL CONNECTION DETAIL ON SEC
122	230 PFC	STAR STRINGER REFER DWG. S31 FOR TYPKAL DETAIL. X BENGTES STRINGER CRANK!

FIRST FLOOR FRAMING PLAN SCALE - 1100

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