ALTERATIONS AND ADDITIONS AT QUEENSCLIFF SLC, MANLY

SCHEDULE OF DRAWINGS		
NO.	DRAWING TITLE	REV.
S00	TITLE PAGE	-
S01	GENERAL NOTES	A
S10	GROUND FLOOR PLAN	B

ARCHITECTURE + INTERIORS
PO BOX 468 SPIT JUNCTION, NSW 2088
[P] +61 421 464 456
[E] studio@pieterhenry.com.au
[W] www.pieterhenry.com
ABN 61 911 250 100 ACN 613 788 597
NOMINATED ARCHITECT NSW - REG N. 8749

ELEGANT ENGINEERING
PH (02) 9674 7601 (E) mail@elegantengineering.com.au
ABN: 49 613 740 668

QUEENSCLIFF SLC, MANLY

Title Page

SCALE	JOB NUMBER	DRAWING NUMBER	REV
N.T.S	24214	S00	-

GENERAL

1. READ THESE DRAWINGS IN CONJUNCTION WITH ALL OTHER CONSULTANT'S DRAWINGS AND SPECIFICATIONS AND WITH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED. IF IN DOUBT ASK
2. REFER ANY DISCREPANCY TO THE PROJECT MANAGER BEFORE PROCEEDING.
3. CONSTRUCTION SHALL NOT COMMENCE UNTIL APPROVED BY THE RELEVANT AUTHORITY.
4. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT AUSTRALIAN STANDARDS AND THE BUILDING CODE OF AUSTRALIA.
5. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS.
6. ALL SETOUT DIMENSIONS SHALL BE VERIFIED BY THE BUILDER ON SITE.
7. ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES U.N.O.
8. THE LEVELS SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND FOR THE SOLE PURPOSE OF ASSISTING THE DRAWINGS. THEY MUST BE VERIFIED BY THE BUILDER.
9. BUILDER TO OBTAIN ALL REQUIRED SURVEY INFORMATION AND TO PROVIDE COPIES OF SURVEY INFORMATION TO THE OWNER AS REQUIRED AT THEIR EXPENSE.
10. THESE DRAWINGS ARE THE COPYRIGHT OF ELEGANT ENGINEERING AND MUST NOT BE USED, REPRODUCED OR COPIED, WHOLLY OR IN PART, WITHOUT THE WRITTEN PERMISSION OF ELEGANT ENGINEERING. ALL RIGHTS RESERVED.

TEMPORARY WORKS

1. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
2. THE BUILDER SHALL PROVIDE SCAFFOLDING, FORMWORK, TEMPORARY BRACING, SHORING, PROPPING AND THE LIKE TO KEEP THE BUILDING WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
3. THE BUILDER IS RESPONSIBLE FOR THE ADEQUACY OF ALL TEMPORARY WORKS AND WHERE NECESSARY IS TO ENGAGE AN ENGINEER FOR ITS DESIGN AND CERTIFICATION.
4. TEMPORARY BRACING NOT SHOWN ON THE STRUCTURAL STEEL DRAWINGS SHALL BE PROVIDED BY THE BUILDER AS REQUIRED.

LOADING

1. THE STRUCTURAL COMPONENTS DETAILED ON THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS AND LOCAL GOVERNMENT ORDINANCES FOR THE FOLLOWING LOADINGS (REFER TO ARCHITECTURAL DRAWINGS FOR PROPOSED FLOOR USAGE):

FLOOR USAGE	LIVE LOAD	SUPER IMPOSED DEAD LOAD
GENERAL LIVING*	1.5 kPa	0.0 kPa
BALCONIES*	2.0 kPa	0.0 kPa
GARAGE	5.0 kPa	0.0 kPa
*TILED BATHROOMS AND BALCONIES WITH AN ADDITIONAL		1.0 kPa

INSPECTION POINTS

1. THE BUILDER IS REQUIRED TO NOTIFY AND ALLOW TIME AND ACCESS FOR THE ENGINEER TO INSPECT THE STRUCTURE AT THE FOLLOWING POINTS U.N.O.
   - COMPLETED EXCAVATION
   - PRIOR TO CASTING ALL CONCRETE
   - STRUCTURAL STEELWORK PRIOR TO CONCEALING
   - TIMBER FRAMING PRIOR TO CONCEALING
2. SITE INSPECTIONS DO NOT RELIEVE THE BUILDER OF RESPONSIBILITY FOR THE COMPLETENESS AND CORRECTNESS OF HIS WORK.
3. 48 HOURS NOTICE IS REQUIRED FOR INSPECTIONS. ALL WORK TO BE INSPECTED MUST BE COMPLETED PRIOR TO INSPECTION.
4. INSPECTIONS WILL BE PERIODICAL AND REPRESENTATIVE AND WILL NOT NECESSARILY BE MADE OF ALL WORKS. ELECTION TO INSPECT OR OTHERWISE WILL BE AT THE ENGINEERS DISCRETION.

FOUNDATIONS

1. FOOTINGS HAVE BEEN DESIGNED TO BEAR IN SAND WITH AN ALLOWABLE BEARING CAPACITY OF 200kPa AND A SOIL CLASSIFICATION OF 'S' TO AS2870. BUILDER TO ENGAGE A GEOTECHNICAL ENGINEER TO APPROVE FOUNDATION MATERIAL FOR THIS BEARING CAPACITY.
2. EXCAVATION SHALL CONTINUE UNTIL THE REQUIRED BEARING CAPACITY IS FOUND. ANY OVER-EXCAVATION SHALL BE BACK-FILLED WITH N10 MASS CONCRETE.
3. FOOTINGS SHALL BE LOCATED CENTRALLY UNDER WALLS AND COLUMNS U.N.O.
4. FOOTINGS SHALL BE CONSTRUCTED AND BACKFILLED AS SOON AS POSSIBLE FOLLOWING EXCAVATION. EXCAVATIONS SHALL BE KEPT FREE OF PONDED WATER.
5. UNLESS OTHERWISE SPECIFIED THE SUBGRADE FOR SLABS SHALL BE SUITABLE MATERIAL COMPACTED TO 98% OF MAXIMUM DRY DENSITY DETERMINED BY TEST TO AS1289-E 1.1
6. UNLESS OTHERWISE SPECIFIED THE LEVELLING BASE SHALL BE APPROVED SAND COMPACTED TO 100% OF MAXIMUM DRY DENSITY DETERMINED BY TEST TO AS1289-E 1.1

CONCRETE

1. CONCRETE SHALL BE IN ACCORDANCE WITH AS3600 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
2. CONCRETE SUPPLY SHALL COMPLY WITH AS1379. PROJECT CONTROL TESTING SHALL BE CARRIED OUT.
3. CONCRETE QUALITY SHALL COMPLY WITH THE TABLES ON THESE DRAWINGS.
4. SHRINKAGE STRAIN SHALL NOT BE EXCEEDED IN ACCORDANCE WITH AS1012.
5. ADMIXTURES SHALL NOT BE USED U.N.O. OR APPROVED IN WRITING
6. CONCRETE SIZES SHOWN DO NOT INCLUDE APPLIED FINISHES.
7. DEPTHS OF BEAMS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.
8. CONSTRUCTION JOINTS, WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
9. FOR CHAMFERS, DRIP GROOVES, REGLETS, ETC. REFER TO ARCHITECT'S DETAILS, MAINTAIN COVER TO REINFORCEMENT AT THESE DETAILS.
10. NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
11. CONDUITS, PIPES ETC. SHALL BE LOCATED IN THE CENTRAL QUARTER OF SLAB DEPTH AND SPACED AT NOT LESS THAN 5 DIAMETERS. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE COVER TO REINFORCEMENT.
12. ALL CONCRETE SLABS CAST AGAINST THE GROUND ARE TO BE PROTECTED WITH A HEAVY DUTY PLASTIC MEMBRANE LAPPED 200mm AND TAPED AT ALL JOINTS.
13. ALL CONCRETE SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
14. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS ETC.
15. CURING OF ALL CONCRETE SHALL BE ACHIEVED BY KEEPING SURFACES COMPLETELY WET FOR A PERIOD OF 5 DAYS, AND PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 10 DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAYED ON CURING COMPOUNDS THAT COMPLY WITH AS3799 MAY BE USED WHERE FLOOR FINISHES WILL NOT BE AFFECTED (REFER MANUFACTURERS SPECIFICATION). POLYTHENE SHEETING OR WET HESSIAN (WHERE PROTECTED FROM WIND AND TRAFFIC) MAY BE USED TO RETAIN CONCRETE MOISTURE.
16. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
17. ALL REINFORCEMENTS SHALL BE FIRMLY SUPPORTED ON PLASTIC CHAIRS AT NOT GREATER THAN 800 CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATIVE INTERSECTIONS.
18. ALL REINFORCEMENT SHALL BE AS FOLLOWS TO AS4671
    - N GRADE 500 NORMAL DUCTILITY DEFORMED BAR.
    - R GRADE 250 NORMAL DUCTILITY PLAIN ROUND BAR.
    - SL GRADE 500 LOW DUCTILITY WELDED SQUARE MESH.
    - RL GRADE 500 LOW DUCTILITY WELDED RECTANGULAR MESH.
    - L GRADE 500 LOW DUCTILITY TRENCH MESH.
19. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN OR OTHERWISE APPROVED IN WRITING BY THE ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH AS3600 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR. MINIMUM LAP LENGTHS FOR DEFORMED BARS INCLUDING DISTRIBUTION REINFORCEMENT SHALL BE AS FOLLOWS U.N.O.

BAR SIZE	MINIMUM LAP LENGTH (mm)				
	VERTICAL	BEAMS	SLABS	COG LENGTHS	
				90°	135° / 180°
N12	450	550	450	170	70
N16	700	800	700	200	70
N20	1000	1250	1000	250	80
N24	1200	1500	1200	300	95
N28	1400	1750	1400	350	115

20. CLOSED STIRRUPS REQUIRE A 135 DEGREE COG.
21. SITE BENDING OF DEFORMED REINFORCING BARS SHALL BE DONE WITHOUT HEATING USING MECHANICAL BENDING TOOLS.
22. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER

RETAINING WALLS

1. ALL RETAINING WALLS SHALL BE MEMBRANED TO THE ARCHITECTS SPECIFICATION. U.N.O.
2. ALL RETAINING WALLS SHALL BE CONSTRUCTED WITH A 100mm SLOTTED PVC AGRICULTURAL PIPE WRAPPED IN A GEOTECHNICAL SOCK. LAID TO A MINIMUM GRADE OF 1 IN 100 OVER MAX 15M LENGTHS. THE LOW END IS TO BE CONNECTED TO THE STORMWATER SYSTEM. THE HIGH END IS TO BE BROUGHT TO THE SURFACE AND CAPPED TO ALLOW FOR FUTURE MAINTENANCE.
3. ALL RETAINING WALLS SHALL BE BACKFILLED WITH 10mm CRUSHED ROCK DRAINAGE FILL MATERIAL PLACED AROUND THE DRAINAGE PIPE FOR A MIN OF 300MM AND EXTENDING UP THE BACK OF THE WALL.
4. THE DRAINAGE FILL MATERIAL IS TO BE SEPARATED FROM THE RETAINING FILL MATERIAL OR INFILL WITH A GEO-TEXTILE FABRIC.
5. A SURFACE SEAL OF 150mm THK COMPACTED CLAY IS TO BE PROVIDED AT THE SURFACE WITH A 100mm DEEP CATCH DRAIN WITH A MINIMUM GRADE OF 1 IN 100 CONNECTED TO THE SITE DRAINAGE SYSTEM AT THE CREST.

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STRUCTURAL STEELWORK

1. ALL WORKMANSHIP AND MATERIALS (INCLUDING ERECTION AND FABRICATION) SHALL BE IN ACCORDANCE WITH AS4100
2. ALL STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING AUSTRALIAN STANDARDS IN RESPECT OF GRADE AND CONDITIONS OF SUPPLY UNO:

ROLLED SECTIONS	AS/NZS 3679.1	GRADE 300
WELDED SECTIONS	AS/NZS 3679.2	GRADE 300
HOLLOW SECTIONS	AS/NZS 1163	GRADE C350
PURLINS AND GIRTS	AS 1397	GRADE G450 Z350

3. CONNECTION CLEATS SHALL BE 10mm THK UNO AND EITHER: (UNO)

AS/NZS 3678	GRADE 250 PLATE
AS/NZS 3679.1	GRADE 300 FLAT BAR

4. ALL BEAMS AND RAFTERS SHALL BE SUPPLIED WITH ANY NATURAL CAMBER UP. ADDITIONAL CAMBER SHALL BE AS NOTED ON THESE DRAWINGS.
5. AN EXPERIENCED SHOP DETAILER SHALL PREPARE SEPARATE SHOP DETAIL DRAWINGS FROM THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. FABRICATION SHALL NOT COMMENCE UNTIL THE STRUCTURAL ENGINEER AND ARCHITECT SO ADVISE.
6. THE BUILDER SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL TO STEEL AND STEEL TO OTHER ELEMENTS IRRESPECTIVE OF WHETHER THESE CLEATS AND HOLES ARE DETAILED OR NOT.
7. PROVIDE SEAL PLATES TO THE ENDS OF HOLLOW SECTIONS WITH "BREATHER" HOLES IF THE MEMBER IS TO BE HOT DIP GALVANISED. SEAL PLATES TO BE 6mm THICK.

STRUCTURAL STEELWORK BOLTING

8. ALL BOLTS, NUTS AND WASHERS TO BE GALVANISED.
9. NO CONNECTION SHALL HAVE LESS THAN 2 BOLTS.
10. ALL BOLTS SHALL BE M16 CATEGORY 8.8/S UNO.
11. BOLTING CATEGORIES SHOWN ON THESE DRAWINGS SHALL BE THOSE DEFINED IN CLAUSE 9.3.1 OF AS 4100 (NAMELY 4.6/S, 8.8/S, 8.8/TB & 8.8/TF).
12. BOLTS SHALL BE IN ACCORDANCE WITH AS1110, AS1111 AND/OR AS/NZS1252 AS APPROPRIATE
13. BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH CLAUSE 15.2.3 OF AS4100 AND BOLTS REQUIRING TENSIONING (8.8/TB AND 8.8/TF) SHALL BE INSTALLED IN ACCORDANCE WITH CLAUSES 15.2.4 AND 15.2.5 OF AS4100 USING EITHER THE PART-TURN METHOD OR A DIRECT-TENSION INDICATION DEVICE. THE TORQUE CONTROL METHOD SHALL NOT BE USED.
14. ALL BOLT HOLES SHALL BE 2mm LARGER THAN THE NOMINAL BOLT DIAMETER EXCEPT WHERE SLOTTED OR OVERSIZE HOLES ARE SHOWN ON THE STRUCTURAL STEEL DETAILS. ALL HOLES SHALL COMPLY WITH CLAUSE 14.3.5 OF AS4100. PLATE WASHERS SHALL BE PROVIDED WHERE REQUIRED BY CLAUSE 14.3.5.

STRUCTURAL STEELWORK WELDING

15. ALL WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS1554.1,
16. ELECTRODES SHALL BE TO EITHER AS1153, AS1858, AS2203 OR AS2717.
17. ALL FILLET WELDS SHALL BE 6mm CONTINUOUS CATEGORY SP USING E48XX ELECTRODES OR EQUIVALENT. U.N.O.
18. ALL BUTT WELDS SHALL BE FULL PENETRATION CATEGORY SP TO AS1554.1. U.NO.
19. THE EXTENT OF NON DESTRUCTIVE WELD EXAMINATION SHALL BE AS NOTED BELOW, RADIOGRAPHIC OR ULTRASONIC EXAMINATION SHALL BE TO AS1554.1, AS2177.1 AND AS2207 AS APPROPRIATE.

WELD TYPE	CATEGORY	EXAMINATION METHOD	EXTENT (%)
FILLET WELDS	GP/SP	VISUAL	100
BUTT WELDS	GP	VISUAL	100
BUTT WELDS	SP	VISUAL (AND)	100
		RADIOGRAPH OR ULTRASONIC	10

STRUCTURAL STEELWORK COATING

20. SHARP PROJECTIONS OR CRESTS ON WELDS SHALL BE GROUND SMOOTH AND ALL WELD SPLATTER SHALL BE REMOVED BY CHIPPING OR GRINDING.
21. SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH AS1627.
22. PAINT COATINGS SHALL BE IN ACCORDANCE WITH AS2312
23. HOT DIP GALVANISED COATINGS SHALL BE IN ACCORDANCE WITH AS4680
24. PAINT FINISHES OVER GALVANISED OR PRIMED STEELWORK TO ARCHITECTS SPECIFICATION.
25. REINSTATE ANY DAMAGE TO THE CORROSION PROTECTION INCLUDING BY SITE WELDING WITH A TWO PART EPOXY SUCH AS 'JOTUN BARRIER' OR EQUIVALENT.
26. THE REQUIRED COATING IS SPECIFIED IN THE MEMBER SCHEDULE AND IS INDICATED AS FOLLOWS (THE PAINT SPECIFICATION IS IN ACCORDANCE WITH THE DULUX RANGE AND EQUIVALENT ALTERNATIVES ARE ACCEPTABLE):

LOCATION	SURFACE PREPERATION	FIRST COAT	SECOND COAT	THIRD COAT
ALK1	CLASS Sa2	METALSHIELD HB ZP PRIMER (50um)	-	-
IZS1	CLASS Sa2.5	Zincanode 304 (75um)		
PUR5	CLASS Sa2.5	Zincanode 304 (75um)	Duremax GPE (200um)	Luxathane R (50um)
GALV	CLASS Sa2.5	HDG600 HOT DIPPED GALVANISED TO AS4680		

MASONRY - GENERAL

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3700 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
2. ALL MASONRY SUPPORTING OR SUPPORTED BY CONCRETE FLOORS SHALL BE PROVIDED WITH VERTICAL JOINTS TO MATCH ANY CONTROL JOINTS IN THE CONCRETE.
3. MORTAR ADMIXTURES SHALL NOT BE USED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
4. NO HOLES, CHASES OR RECESSES ARE PERMITTED IN LOAD BEARING MASONRY WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
5. ALL MASONRY WALLS AND PIERS SUPPORTING CONCRETE SLABS AND BEAMS SHALL HAVE A PRE-GREASED GALVANISED STEEL SLIP JOINT BETWEEN CONCRETE SOFFIT AND THE TOP OF THE MASONRY ELEMENT U.N.O.
6. DO NOT CONSTRUCT MASONRY WALLS ON SUSPENDED CONCRETE SLABS UNTIL SLAB FORMWORK HAS BEEN STRIPPED AND DE-PROPPED.
7. WHERE WALLS ARE NON LOAD BEARING AT EITHER HORIZONTAL OR VERTICAL FACES THEY SHALL BE SEPARATED FROM THE CONCRETE BY 20mm THICK 'CANEITE' OR EXPANDED POLYSTYRENE U.N.O.

CLAY MASONRY - BRICKWORK

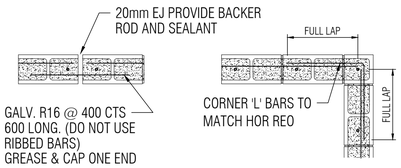
1. ALL LOAD-BEARING BRICKWORK SHALL COMPLY WITH THE FOLLOWING U.N.O.
   BRICKS SHALL BE 110 x 76 SOLID CLAY.
   BRICK STRENGTH: UNCONFINED COMPRESSIVE STRENGTH (f'_{uc}) = 15MPa.
   EXPOSURE CLASS: EXPOSED
2. DURABILITY FOR MORTAR AND BUILT-IN COMPONENTS (E.G. LINTELS AND WALL TIES) SHALL BE IN ACCORDANCE WITH CLAUSE 5.6, CLAUSE 5.7 AND TABLE 5.1 OF AS3700, AND AS2699.

	LOCATION	MORTAR CLASS	DURABILITY CLASS FOR BUILT-IN COMPONENTS
<100m FROM SALT WATER BAY SUCH AS SYDNEY HARBOUR, OR <1km FROM SURF COAST	INTERIOR	M3	R1
	EXTERIOR WALL (BOTH SKINS OF CAVITY)	M4	STAINLESS STEEL, R4
>100m UP TO 1km FROM SALT WATER BAY, AND >1km UP TO 10km FROM SURF COAST	INTERIOR	M3	R1
	EXTERIOR WALL (BOTH SKINS OF CAVITY)	M3	GALV, R3
>1km FROM SALT WATER BAY, AND >10km FROM SURF COAST	INTERIOR	M3	R1
	EXTERIOR WALL (BOTH SKINS OF CAVITY)	M3	R1

3. ALL LOAD BEARING BRICKS SHALL BE LAID FROGS UP EXCEPT FOR THE TOP COURSE WHICH SHALL BE LAID FROGS DOWN. WHEN SUPPORTING A CONCRETE SLAB OR BEAM, BRICKWORK SHALL HAVE A LAYER OF MORTAR PLACED ON THE TOP AND TROWELLED SMOOTH.
4. VERTICAL CONTROL JOINTS IN BRICKWORK TO BE SPACED AT MAX 8m CENTRES AND MAX 4m FROM CORNERS AND WHERE THE MASONRY HEIGHT STEPS MORE THEN 600mm

CONCRETE MASONRY - BLOCKWORK

1. CONCRETE BLOCKWORK SHALL COMPLY WITH THE FOLLOWING U.N.O.
   BLOCKS SHALL BE STRENGTH GRADE 20 CONFORMING TO AS2733.
   ALL BLOCKS ARE TO BE 'H' BLOCKS U.N.O.
2. PROVIDE CLEAN OUT HOLES AT THE BASE OF ALL WALLS AND ABOVE HORIZONTAL CONSTRUCTION JOINTS.
3. ROD CORE HOLES TO REMOVE PROTRUDING MORTAR FINS.
4. MORTAR SHALL COMPRISE 1 CEMENT : 0.25 LIME : 3 SAND.
5. CORE FILLING GROUT TO HAVE A CHARACTERISTIC STRENGTH OF 25MPa, 10mm AGGREGATE, 230mm SLUMP + or - 30mm.
6. PROVIDE 65mm COVER TO REINFORCING BARS FROM THE OUTSIDE FACE OF THE BLOCKWORK TO ALLOW ADEQUATE GROUT COVER.
7. BLOCKWORK TO BE CORE FILLED IN MAX 1500 LIFTS.
8. BLOCK-PLANS-JOINT DIMENSIONS ARE MULTIPLES OF 100mm USING STRETCHER BOND UNLESS SPECIFICALLY NOTED OTHERWISE.
9. VERTICAL CONTROL JOINTS IN COMPLETELY CORE FILLED REINFORCED BLOCKWORK TO BE SPACED AT MAX 14m CENTRES AND WHERE THE MASONRY HEIGHT STEPS MORE THEN 600mm.



TYP BLOCK WALL DETAIL

SCALE- 1:20

PROPRIETY ITEMS

1. PROPRIETY ITEMS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION U.N.O.

EPOXY ANCHORS

1. ALL EPOXY ANCHORS ARE TO BE HOT DIP GALVANISED UNO
2. THREADED ROD IS TO BE MIN GRADE 4.6 TYPICALLY AND MIN GRADE 5.8 FOR HEAVY DUTY APPLICATIONS UNO.
3. USE STANDARD EMBEDMENT DEPTHS AS FOLLOWS UNO

SIZE	M8	M10	M12	M16	M20	M24
DEPTH	80	90	110	125	170	210

5. CORE DRILLED AND/OR WET HOLES REQUIRE HEAVY DUTY EPOXY
6. EPOXY SHALL BE AS FOLLOWS INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS:
   - 6.1. STANDARD WHERE NOT OTHERWISE SPECIFIED:
     HILTI HY-200
     RAMSET CHEMSET 101 PLUS
     POWERS KF2 OR AC100e
   - 6.2. HEAVY DUTY:
     HILTI HVU
     RAMSET REO 502
     POWERS PF PRO
   - 6.3. BRICKWORK OR HOLLOW BLOCKWORK SUBSTRATE:
     HILTI HY-110
     RAMSET CHEMSET 101 PLUS
     POWERS KF2 OR AC100e

TIMBER

1. ALL TIMBER DESIGN, CONSTRUCTION AND MATERIALS TO BE IN ACCORDANCE WITH AS1684, AS1720.1, AS1720.2 AND TYPICAL CARTER HOLT HARVEY SPECIFICATIONS AND DETAILS.
2. TIMBER FRAMING SHALL COMPLY WITH AS1684
3. SOFTWOOD TO BE A MINIMUM STRESS GRADE F7, JOINT GRADE JD4 UNO.
4. HARDWOOD TO BE MINIMUM GRADE F14, JOINT GRADE J3 UNO.
5. EXTERNAL TIMBER SHALL BE EITHER HARDWOOD DURABILITY CLASS 1 OR 2 TO AS1720.2 OR IMPREGNATED PINE PRESSURE TREATED TO AS1604 AND RE-DRIED PRIOR TO USE. SUPPLEMENTARY TREATMENT SHALL BE PROVIDED TO ALL CUT FACES.
6. PROPRIETARY TIMBER CONNECTORS SUCH AS "TRIP-L-GRIPS" SHALL BE OF PROVEN TYPE AND SHALL HAVE WORKING LOADS DETERMINED IN ACCORDANCE WITH THE PROCEDURE IN AS 1848.
7. BUILDERS STRAP SHALL BE 30 x 0.8 OR 25 x 1.0mm GALV. STEEL RIBBON WITH FIXINGS AS DETAILED IN AS1684 UNO.
8. ALL BOLTS FASTENING TIMBER MEMBERS SHALL BE GRADE 4.6/S UNO AND MIN M10 UNO.
9. ALL TIMBER SCREWS SHALL BE 14 GUAGE TYPE 17 FASTENERS UNO.
10. TIMBER TRUSSES ARE TO BE PRE-CAMBERED AN AMOUNT EQUAL TO THE CALCULATED INITIAL DEAD LOAD DEFLECTION.

ABBREVIATIONS

@	AT	SIR	SITE INSPECTION REPORT
&	AND	TAD	TO ARCHITECTS DETAILS
ALT	ALTERNATE (ING) (IVELY)	TBD	TO BUILDERS DETAILS
BOT	BOTTOM	TBC	TO BE CONFIRMED
BW	BUTTRESS WALL	TFD	TO FUTURE DETAILS
COS	CONFIRM ON SITE	THK	THICK(NESS)
CTS	CENTRES	TOP	TOP
O/R	OUTRIGGER	TYP	TYPICAL
D&E	DRILL AND EPOXY	UNO	UNLESS NOTED OTHERWISE
DIA	DIAMETER	VER	VERTICAL
EMB	EMBEDMENT	SJ	SAWN JOINT
EXST	EXISTING	CJ	CONSTRUCTION JOINT
FPBW	FULL PENETRATION BUTT WELD	IJ	ISOLATION JOINT
HOR	HORIZONTAL	KJ	KEY JOINT
GALV	HOT DIP GALVANISED	AJ	ARTICULATION JOINT
MAX	MAXIMUM	DOW	DOWELS
MIN	MINIMUM	EW	EACH WAY
NOM	NOMINAL	EF	EACH FACE
PENO	PENETRATION	B1	BOT REO LAID FIRST
PRJ	PROJECTION	B2	BOT REO LAID 2nd
RC	REINFORCED CONCRETE	B3	BOT REO LAID 3rd
REO	REINFORCEMENT	T1	TOP REO LAID LAST
REQ	REQUIRED	T2	TOP REO LAID 2nd LAST
RW	RETAINING WALL	T3	TOP REO LAID 3rd LAST

REV	DATE	BY	DESCRIPTION
A	14.11.24	B.P.	ISSUED FOR CONSTRUCTION
B	21.11.24	B.P.	ISSUED FOR CONSTRUCTION

NOTES
REFER TO S01 FOR GENERAL NOTES
REFER TO S90 FOR MEMBER SCHEDULE

ARCHITECTURE + INTERIORS
PO BOX 468 SPIT JUNCTION, NSW 2088
[P] +61 421 464 456
[E] studio@pieterhenry.com.au
[W] www.pieterhenry.com
ABN 61 911 250 100 ACN 613 788 597
NOMINATED ARCHITECT NSW - REG N. 8749

ELEGANT ENGINEERING
PH (02) 9674 7601 (E) mail@elegantengineering.com.au
ABN: 49 613 740 668

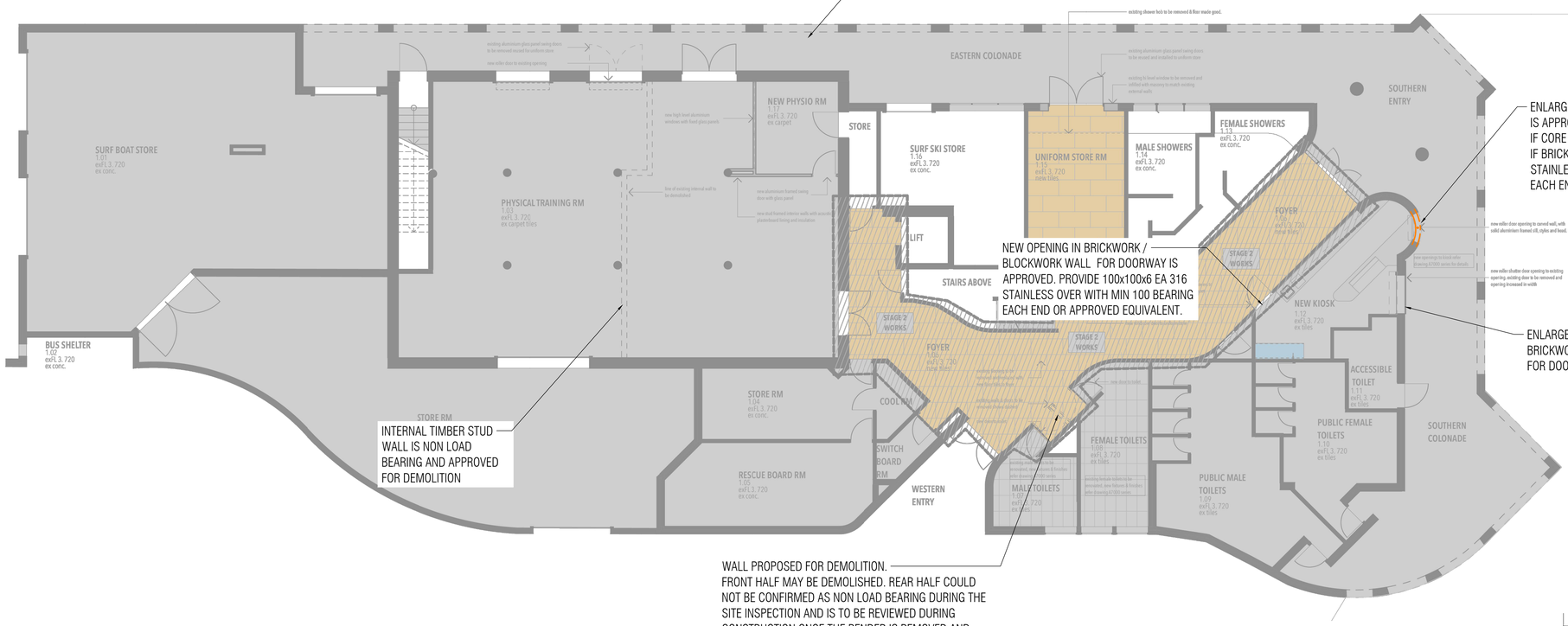
QUEENSCLIFF SLC, MANLY

General Notes

SCALE	JOB NUMBER	DRAWING NUMBER	REV
N.T.S	24214	S01	A

Z:\Projects - Buildings\Manly - Queenscliff Surf Life Saving Club\24214 QSLC Rev B.dwg

PIETER HENRY ARCHITECTS
DRAWING A2200 REV C USED
AS BACKGROUND



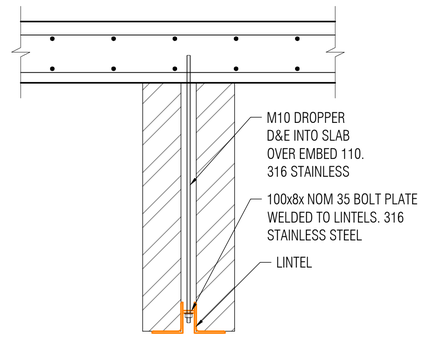
ENLARGED OPENING IN BRICKWORK / BLOCKWORK WALL FOR DOORWAY IS APPROVED. MAX 1000 WIDE.
IF CORE FILLED REINFORCED BLOCKWORK NO LINTEL IS REQUIRED.
IF BRICKWORK /BLOCKWORK AS EXPECTED PROVIDE 2 / CURVED STAINLESS STEEL 100x100x6 EA 316 STAINLESS WITH MIN 100 BEARING EACH END. PROVIDE CENTRAL DROPPER AS PER DETAIL BELOW.

NEW OPENING IN BRICKWORK / BLOCKWORK WALL FOR DOORWAY IS APPROVED. PROVIDE 100x100x6 EA 316 STAINLESS OVER WITH MIN 100 BEARING EACH END OR APPROVED EQUIVALENT.

ENLARGED OPENING IN BRICKWORK / BLOCKWORK WALL FOR DOORWAY IS APPROVED

INTERNAL TIMBER STUD WALL IS NON LOAD BEARING AND APPROVED FOR DEMOLITION

WALL PROPOSED FOR DEMOLITION. FRONT HALF MAY BE DEMOLISHED. REAR HALF COULD NOT BE CONFIRMED AS NON LOAD BEARING DURING THE SITE INSPECTION AND IS TO BE REVIEWED DURING CONSTRUCTION ONCE THE RENDER IS REMOVED AND REAR CAN BE DRILLED ETC TO CONFIRM CONSTRUCTION.



BRICKWORK LINTEL WITH DROPPER TO EXST SLAB
SCALE- 1:10

PROJECT NORTH

GROUND FLOOR PLAN

SCALE- 1:100

REV	DATE	BY	DESCRIPTION
A	14.11.24	B.P.	ISSUED FOR CONSTRUCTION
B	21.11.24	B.P.	ISSUED FOR CONSTRUCTION

NOTES
- REFER TO S01 FOR GENERAL NOTES
- REFER TO S90 FOR MEMBER SCHEDULE
- REFER TO TYPICAL DETAILS ON DETAIL DRAWINGS
- PROVIDE ALL STEPS AND LEVELS TO ARCHITECTS DETAILS.

← INDICATES STEP

100 / -340 INDICATES SLAB THICKNESS / INDICATES SLAB OFFSET FROM DATUM

WALL LEGEND	UNDER	OVER
TIMBER		
BRICKWORK		
BLOCKWORK		
EXISTING		
CONCRETE		
DINCEL		
COLUMNS	(U)	(O)
DEMOLISHED		N/A

ARCHITECTURE + INTERIORS
PO BOX 468 SPIT JUNCTION, NSW 2088
[P] +61 421 464 456
[E] studio@pieterhenry.com.au
[W] www.pieterhenry.com
ABN 61 911 250 100 ACN 613 788 597
NOMINATED ARCHITECT NSW - REG N. 8749

ELEGANT ENGINEERING
PH (02) 9674 7601 (E) mail@elegantengineering.com.au
ABN: 49 613 740 668

QUEENSCLIFF SLC, MANLY

Ground Floor Plan

SCALE	JOB NUMBER	DRAWING NUMBER	REV
1:100 @ A1 1:200 @ A3	24214	S10	B

Z:\Projects - Buildings\Manly - Queenscliff Surf Life Saving Club\24214 QSLC Rev B.dwg