

S01 - GENERAL NOTES (SHEET 1)  
S02 - GENERAL NOTES (SHEET 2)  
S03 - STAGE 4 LOCALITY PLAN  
S04 - UNIT 42 & 43 FOOTING PLAN  
S05 - UNIT 44 & 45 FOOTING PLAN  
S06 - UNIT 46 & 47 FOOTING PLAN  
S07 - UNIT 48 & 49 FOOTING PLAN  
S08 - UNIT 42 & 43 LINTEL PLAN  
S09 - UNIT 44 & 45 LINTEL PLAN  
S10 - UNIT 46 & 47 LINTEL PLAN  
S11 - UNIT 48 & 49 LINTEL PLAN  
S12 - FOOTING DETAILS  
S13 - GENERIC CIVIL DETAILS

F1 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL / BUILDING DESIGNERS DRAWINGS AND THE FOOTING CONSTRUCTION REPORT (F.C.R).

F2 REFER TO BUILDING DESIGNERS / ARCHITECTS DRAWINGS FOR ALL SETTING OUT DIMENSIONS. ANY DISCREPANCIES BETWEEN THE ENGINEERING AND BUILDING DESIGNERS / ARCHITECTS DRAWINGS TO BE RESOLVED PRIOR TO CONSTRUCTION.

F3 MAINTAIN SLAB THICKNESS AND FOOTING DEPTH AT ALL SETDOWNS. (PROVIDE STEPS AS PER STANDARD DETAIL DRAWINGS)

F4 STRUCTURAL DRAWINGS MUST NOT BE SCALED.

F5 IF DEPTH OF UNCOMPACTED FILL BENEATH SLAB EXCEEDS 300mm, SLAB DEPTH INCREASED TO 120mm AND USE SL72 TOP AND BOTTOM.

F6 ALL FOOTINGS CONTINUALLY TRENCHED MINIMUM 200mm INTO FIRM NATURAL GROUND.

F7 IF TRENCHED PIERS ARE TO BE USED IN LIEU OF CONTINUOUS TRENCHING (MINIMUM 200mm INTO FIRM NATURAL GROUND), THEY ARE TO BE 1000mm LONG x FOOTING WIDTH WIDE AND TRENCHED 200mm INTO FIRM NATURAL GROUND. PIERS ARE TO BE PROVIDED AT EACH FOOTING BEAM INTERSECTION & @ CORNERS, & @ 2.5m MAXIMUM CENTERS THEREAFTER. INCREASE LIGATURE SPACING BETWEEN PIERS TO 300mm CENTERS MAX.

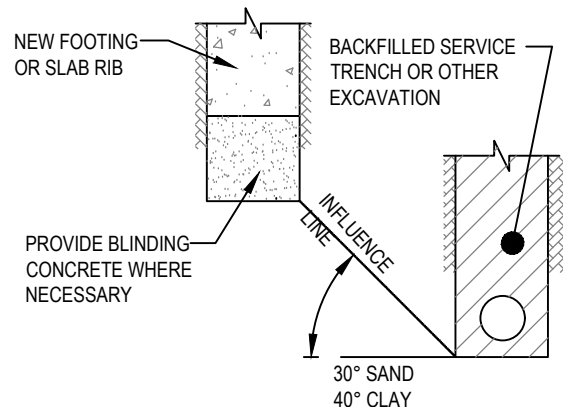
F8 USE SL92 TOP (OR SL72 TOP & BOTTOM) IN LIEU OF SPECIFIED SLAB MESH WHERE BRITTLE FLOOR COVERINGS SUCH AS TILES OR SLATES ARE TO BE USED, EXCEPT WHERE SLAB IS LEFT TO CURE FOR 3 MONTHS AND A FLEXIBLE ADHESIVE IS USED.

F9 LAPS IN MESH TO BE ONE FULL SQUARE PLUS 25mm.

F10 SET DOWN ALL STRIP FOOTINGS AS REQUIRED.

F11 FOOTING AT BOUNDARY MUST BE FOUNDED MINIMUM 600mm BELOW ADJACENT EXISTING GROUND LEVEL.

F12 FOUNDATIONS ADJACENT TO SERVICES, EXCAVATIONS OR BATTER, ETC. SHALL BE EXTENDED DOWN SUCH THAT THE INFLUENCE LINE OF THE FOUNDATION IS BELOW THE ADJACENT SERVICE AS SHOWN BELOW.



C1 ALL CONCRETE WORK TO BE IN ACCORDANCE WITH AS 3600.

C2 CEMENT USED IN ALL CONCRETE SHALL BE NORMAL PORTLAND CEMENT. (TYPE A).

C3 CONCRETE GRADES :

LOCATION	GRADE (MPa)	MAX AGG. (mm)	MAX SLUMP (mm)
FOOTINGS	25	20	80
CORE FILL	20	10	80

C4 CLEAR COVER TO REINFORCEMENT TO BE:

SLAB ON GROUND	25mm T
FOOTINGS	35mm T, 50mm B & SIDES (TO POLYTHENE DPM) 65mm (CAST AGAINST GROUND)
SLABS	25mm T&B INTERNAL 45mm T&B EXTERNAL

C5 ALL CONCRETE TO BE PLACED USING A MECHANICAL VIBRATOR.

C6 ALL CONDUITS TO BE PLACED ABOVE BOTTOM STEEL AND BELOW TOP STEEL MINIMUM OF 25mm BETWEEN CONDUITS. MAXIMUM OF 25mm CONDUITS HORIZONTALLY IN SUSPENDED SLAB.

C7 CONSTRUCTION JOINTS TO BE THOROUGHLY SCABBLED OF ALL LAITANCE AND POORLY COMPACTED MATERIAL. VERTICAL JOINTS TO BE POURED AGAINST SHUTTERING.

C8 BUILD ALL LOAD BEARING BRICKWORK TO THE UNDERSIDE OF SLAB/BEAM LEVEL BEFORE POURING CONCRETE.

C9 ALL CONCRETE SHALL BE PROPERLY CURED BY KEEPING ALL EXPOSED SURFACES IN A MOIST OR DAMP CONDITION FOR AT LEAST THE FIRST SEVEN DAYS AFTER PLACEMENT.

C10 REINFORCEMENT SYMBOLS:

- N - DENOTES GRADE 500 DEFORMED BARS TO AS 4671.
- R - DENOTES GRADE 250R HOT ROLLED PLAIN BARS TO AS 4671.
- SL - DENOTES WELDED 500MPa WIRE SQUARE REINFORCING FABRIC TO AS 4671.
- RL - DENOTES WELDED 500MPa WIRE RECTANGULAR REINFORCING FABRIC TO AS 4671.
- RW - DENOTES HARDDRAWN RIBBED WIRE TO AS 4671.
- W - DENOTES HARDDRAWN WIRE TO AS 4671.

C11 PROVIDE 0.2MM POLYTHENE OR EQUIVALENT VAPOUR BARRIER THROUGHOUT UNDER GROUND FLOOR SLABS. ALL LAPS TO BE 150mm MINIMUM AND TAPED.

C12 STRIPPING OF FORMS:

STRIPPING OF FORMS SHALL BE IN ACCORDANCE WITH AS 3610.

R1 REINFORCEMENT SHOWN ON THE DRAWINGS IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN TRUE PROJECTION.

R2 SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITION SHOWN ON THE DRAWINGS OR AS OTHERWISE APPROVED BY THE ENGINEER. WHERE THE LAP LENGTH IS NOT SHOWN IT SHALL BE SUFFICIENT TO DEVELOP THE FULL STRENGTH OF THE REINFORCEMENT. BAR LAPS IN MILLIMETRES ARE TO BE AS SHOWN BELOW UNLESS SHOWN OTHERWISE:-

N12 500 LAP  
N16 650 LAP  
N20 950 LAP  
N24 1100 LAP  
N28 1400 LAP  
N32 1700 LAP  
N36 900 FOR COMPRESSION LAP

MECHANICAL SPLICE FOR TENSION LAP

R3 BUNDLED BARS SHALL BE TIED TOGETHER AT 30 BAR DIAMETER CENTRES WITH 3 WRAPS OF TIE WIRE.

R4 REINFORCEMENT SYMBOLS :

N GRADE 500 DEFORMED REINFORCING BARS, DUCTILITY CLASS N TO AS 4671.

R GRADE 250 PLAIN REINFORCING BARS TO AS 1302.

W HARD DRAWN STEEL REINFORCING WIRE, GRADE 500 DUCTILITY CLASS L TO AS 4671.

TM HARD DRAWN STEEL TRENCH MESH, GRADE 500 DUCTILITY CLASS L TO AS 4671.

RL RECTANGULAR RIB MESH, GRADE 500 DUCTILITY CLASS L TO AS 4671.

SL SQUARE RIB MESH, GRADE 500 DUCTILITY CLASS L TO AS 4671.

THE NUMBER FOLLOWING THE BAR SYMBOL IS THE NOMINAL BAR DIAMETER IN MILLIMETERS.

R5 REINFORCEMENT ABBREVIATIONS :-

EF EACH FACE  
NF NEAR FACE  
FF FAR FACE  
EW EACH WAY  
T TOP  
B or BTM BOTTOM  
C CENTRAL  
LV LENGTH VARIES

R6 WELDING OF REINFORCEMENT IS NOT PERMITTED UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER.

R7 ALL REINFORCING BARS SHALL BE FIRMLY SUPPORTED ON PLASTIC CHAIRS OR CONCRETE CHAIRS AT SPACING NOT GREATER THAN 60 BAR DIAMETERS. MESH SHALL BE SUPPORTED ON PLASTIC OR CONCRETE CHAIRS AT 750 MAXIMUM CENTRES. ALL REINFORCEMENT SHALL BE SECURELY TIED WITH WIRE TIES AND ALL TIE ENDS SHALL BE TURNED INWARD CLEAR OF THE COVER ZONE.

R8 MINIMUM LAPS IN MESH SHALL BE THE LARGER SPACING OF TRANSVERSE WIRES UNLESS SHOWN OTHERWISE.

R9 MESH SHALL NOT BE LAID ON THE GROUND AND PULLED INTO POSITION THROUGH THE CONCRETE.

R10 CLEAR COVER TO REINFORCEMENT SHALL BE AS SHOWN ON THE DRAWINGS.

R11 REINFORCEMENT DEVELOPMENT LENGTHS SHALL EQUAL LAP LENGTHS.

R12 WHERE DISTRIBUTION BARS TO MAIN REINFORCEMENT ARE NOT SHOWN ON THE DRAWINGS, PROVIDE MINIMUM N12-300, LAPPED 500mm AT SPLICES.

R13 ALL RE-ENTRANT CORNERS OF PENETRATIONS THROUGH WALLS AND SLABS SHALL BE TRIMMED USING MINIMUM 3N12 DIAGONAL CORNER BARS 2000mm LONG.

R14 REINFORCEMENT SET-OUT DIMENSION ARE SHOWN IN RELATION TO COLUMN CENTRELINES, QUARTER SPAN POINTS OR WALL / BEAM EDGES U.N.O.

R15 REINFORCING BARS SHALL BE EVENLY DISTRIBUTED THROUGH THE WIDTH OF THE STRIP U.N.O.

R16 REINFORCEMENT SHALL NOT BE CUT OR BENT ON SITE UNLESS APPROVED BY THE ENGINEER. THE REINFORCEMENT CAN ONLY BE HEATED IF APPROVED IN WRITING BY THE ENGINEER.

R17 AT SLAB EDGES INCLUDING CONSTRUCTION AND OTHER JOINTS, AT LEAST ONE REINFORCING BAR OR FABRIC WIRE SHALL BE LOCATED PARALLEL TO AND WITHIN 75mm OF THE SLAB EDGE.

R18 AT PENETRATIONS WITH DIMENSIONS LESS THAN 400mm DO NOT CUT REINFORCEMENT, RATHER GATHER REINFORCEMENT TO EACH SIDE OF PENETRATION U.N.O. ON THE PLANS. AT PENETRATIONS WITH DIMENSIONS LESS THAN 600mm LAY REINFORCEMENT IN REQUIRED POSITION AND CUT OUT TO SUIT PENETRATION. PROVIDE ADDITIONAL BARS TO MATCH THE SIZE, LENGTH AND NUMBER OF BARS CUT, AND PLACE EQUALLY ON EACH SIDE OF THE PENETRATION U.N.O. ON PLANS.

R19 CONCRETE SHALL NOT BE DELIVERED UNTIL FINAL APPROVAL FOR REINFORCEMENT INSPECTION IS OBTAINED.

G1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ENGINEER'S SOIL REPORT, ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.

G2 THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION UNTIL ISSUED AS "FOR CONSTRUCTION" BY THIS OFFICE.

G3 THE CONTRACTOR SHALL GIVE AT LEAST 1 WORKING DAY NOTICE FOR ALL ENGINEERING INSPECTIONS.


G4 ALL DIMENSIONS, LEVELS ETC. SHALL BE CONFIRMED FROM THE ARCHITECT'S DRAWINGS AND / OR CHECKED FROM THE JOB.

G5 IF ANY DISCREPANCY OCCURS ON THE ENGINEER'S DRAWINGS OR BETWEEN DRAWINGS AND THE SPECIFICATION, THE DISCREPANCY MUST BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

G6 ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT AUSTRALIAN STANDARDS CODES AND THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITY EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.

G7 ALL DIMENSIONS SHOWN SHALL BE VERIFIED ON SITE. ENGINEER'S DRAWINGS MUST NOT BE SCALED.

G8 DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.

REVISION				<div>ISSUED FOR TENDER NOT FOR CONSTRUCTION</div> <div> <b>MLEI Consulting Engineers</b> <small>TALENTED   APPROACHABLE   RESPONSIVE   PIONEERING</small>  452 Pulteney Street, Adelaide SA 5000 Telephone (08) 8231 2832 Facsimile (08) 8311 1742  www.mlei.com.au</div>	PROJECT LOT 52 RESERVOIR ROAD, PARADISE (STAGE 4)	DRAWING TITLE GENERAL NOTES (SHEET 1)	DRAFTER HN	ENGINEER CO	MANAGER TH
ISSUE	DATE	DESCRIPTION	INITIAL				DATE	PROJECT NUMBER	DRAWING SCALE
P1	11.9.18	ISSUED FOR CLIENT REVIEW	HN		Sep-18	2018-7944	NTS		
T1	18.10.18	ISSUED FOR TENDER	HN						
				CLIENT MR PAT BELPERIO	DO NOT SCALE FROM THIS DRAWING	DRAWING NUMBER S01	SHEET SIZE A3	REV T1	