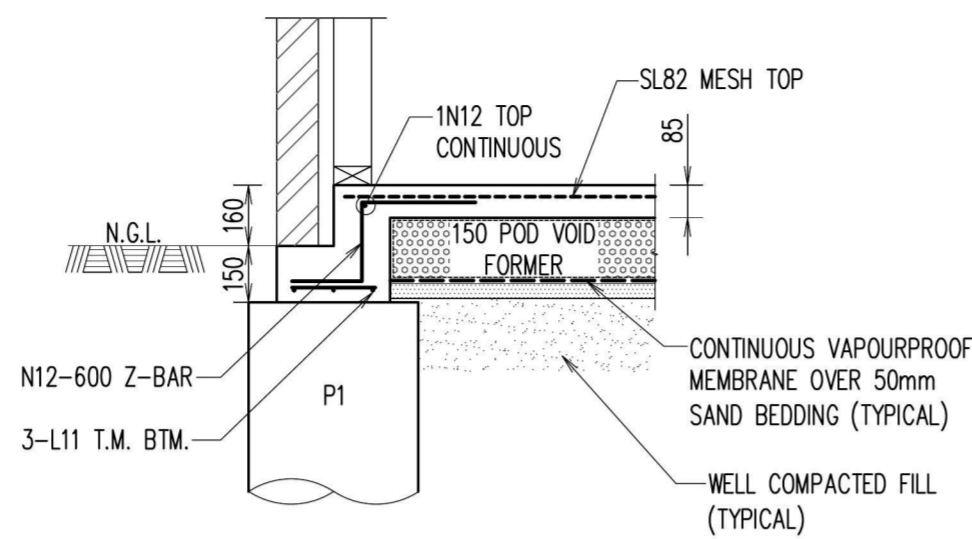
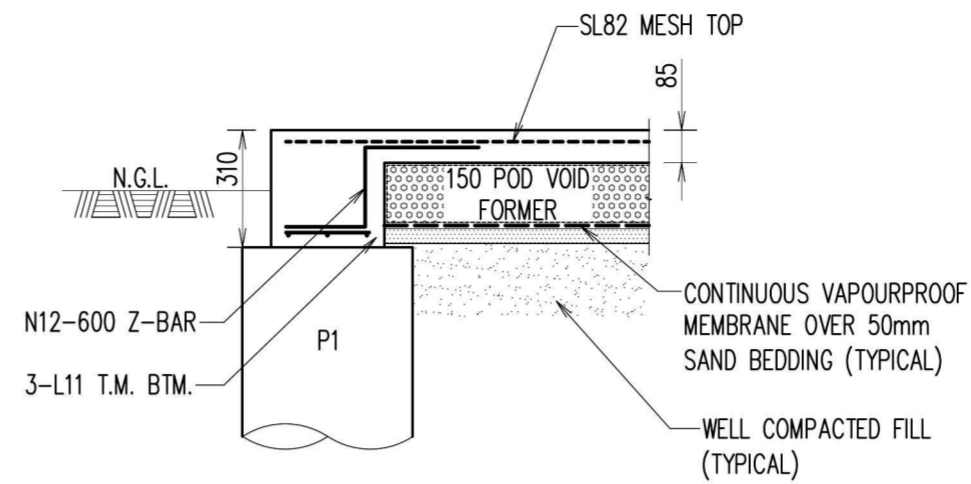


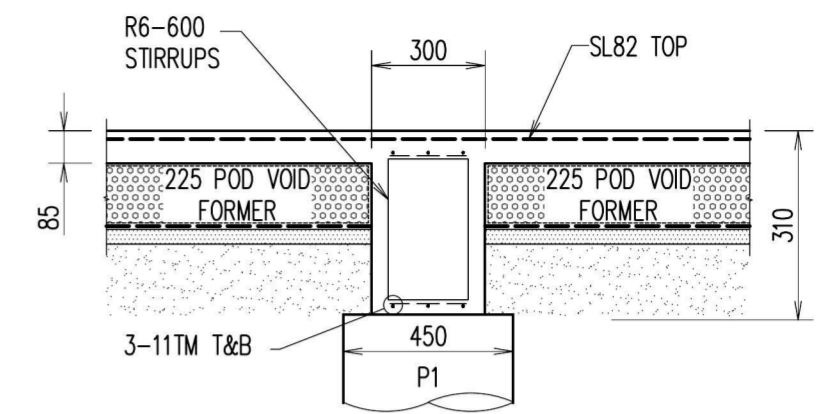
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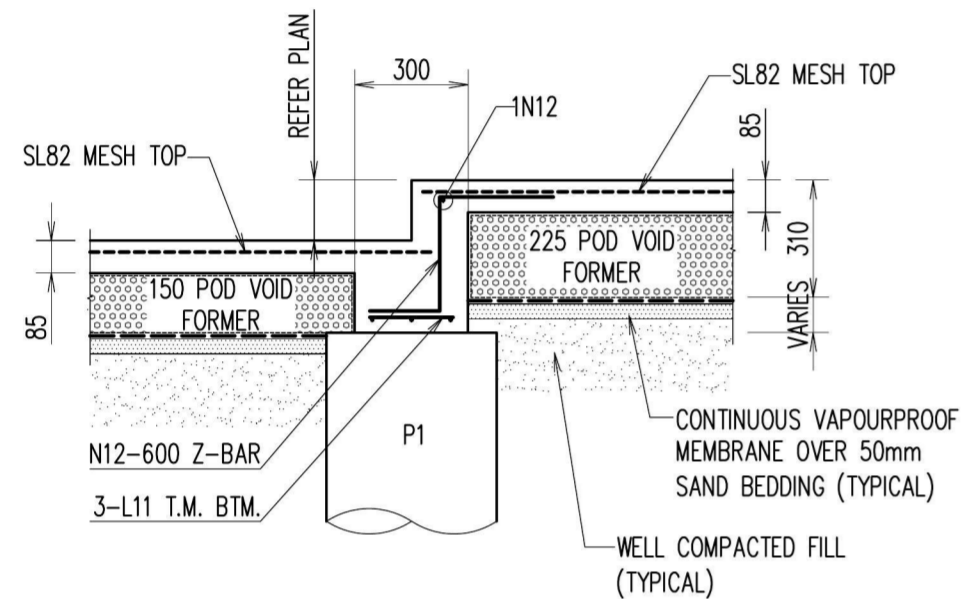
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**TYPICAL EDGE BEAM DETAIL EB3**  
SCALE - 1:20

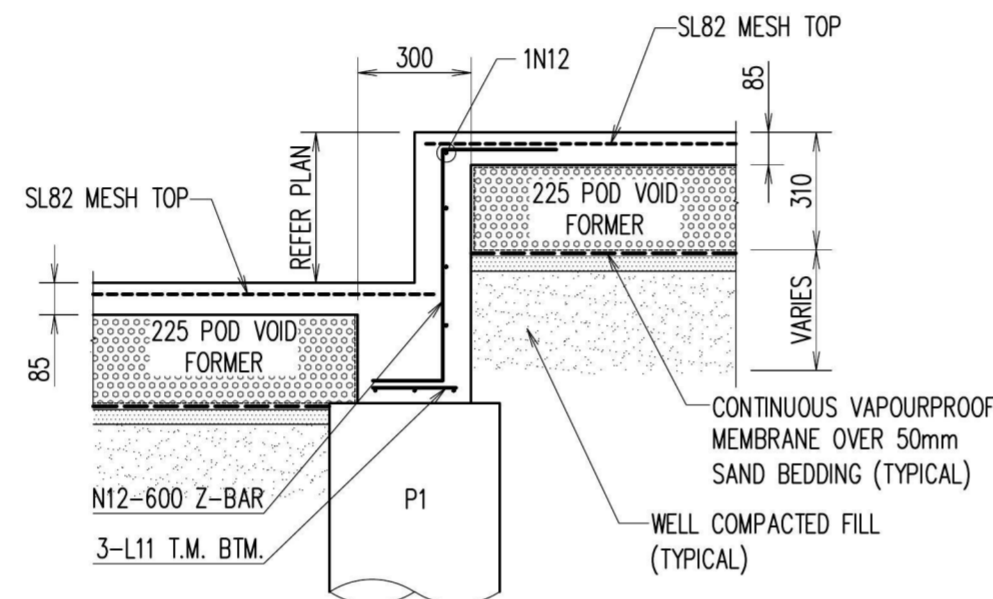


**TYPICAL INTERNAL BEAM IB1**  
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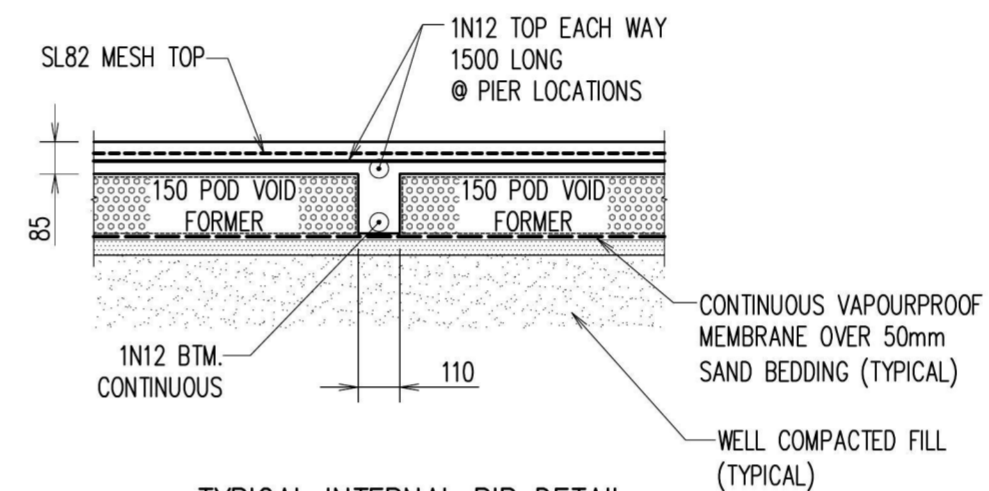


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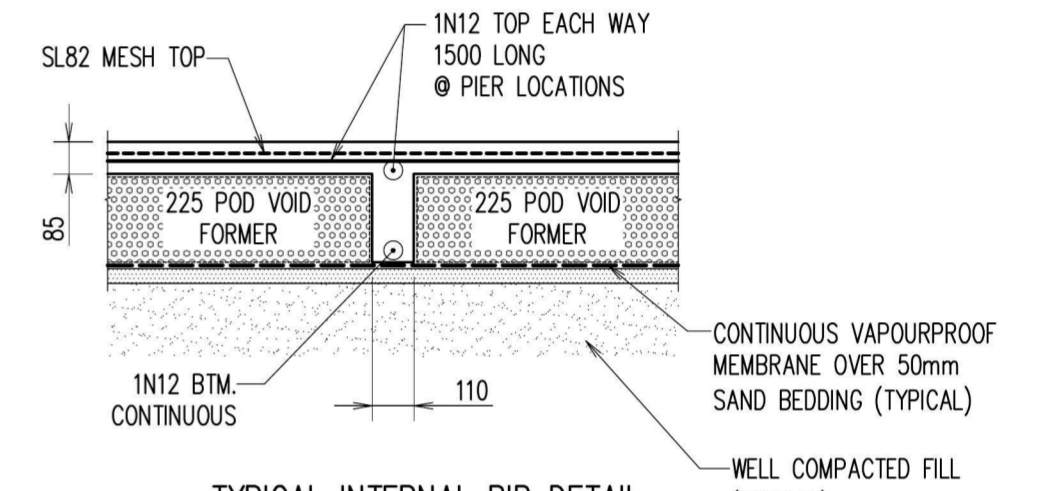
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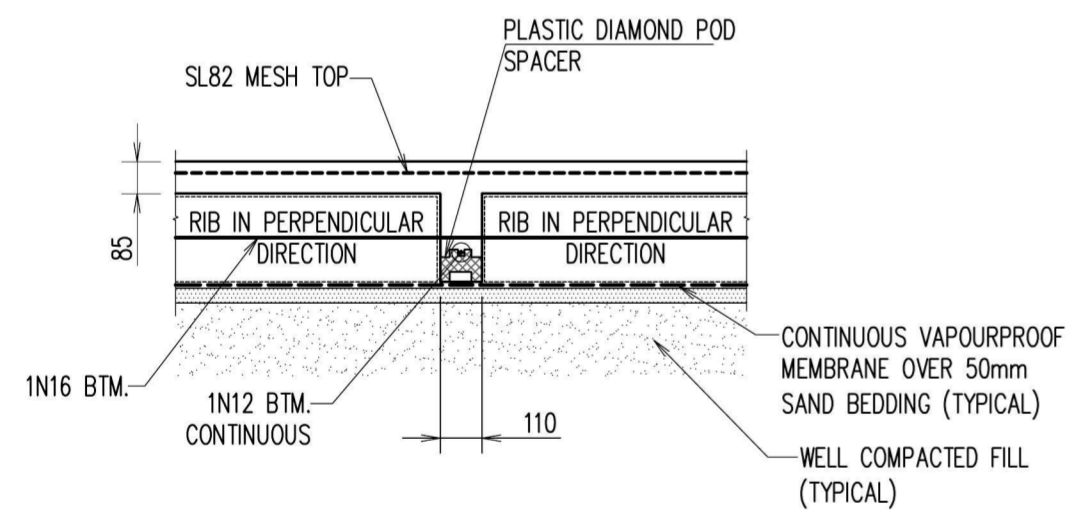
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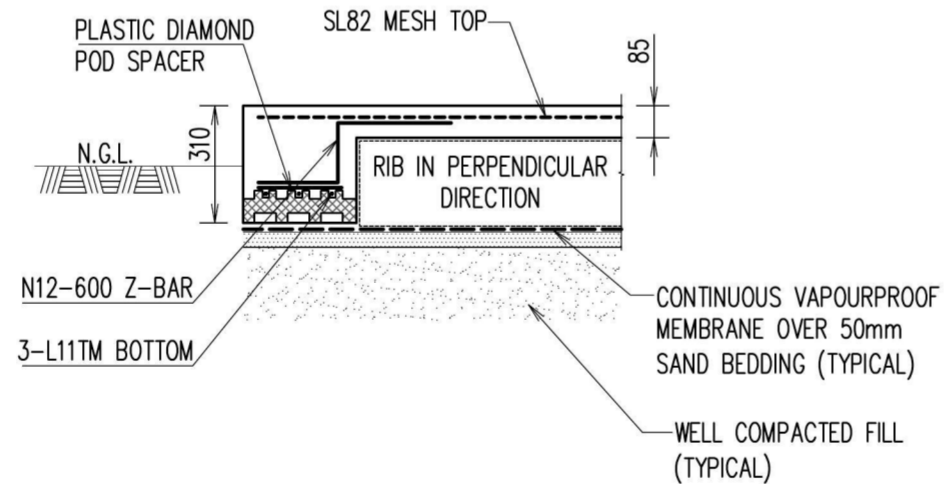
**TYPICAL INTERNAL RIB DETAIL**  
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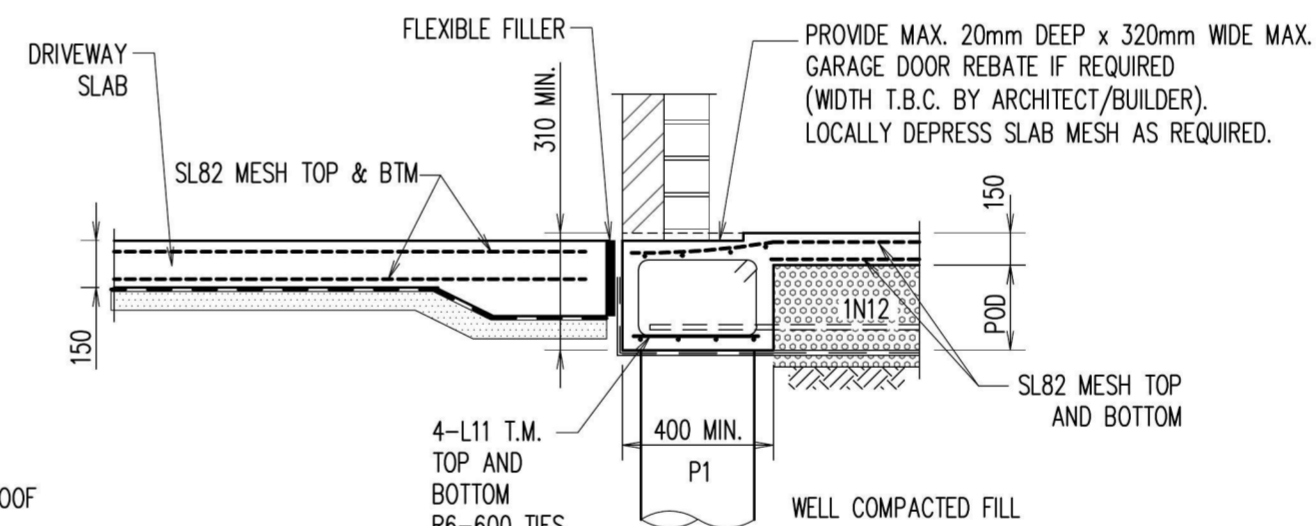
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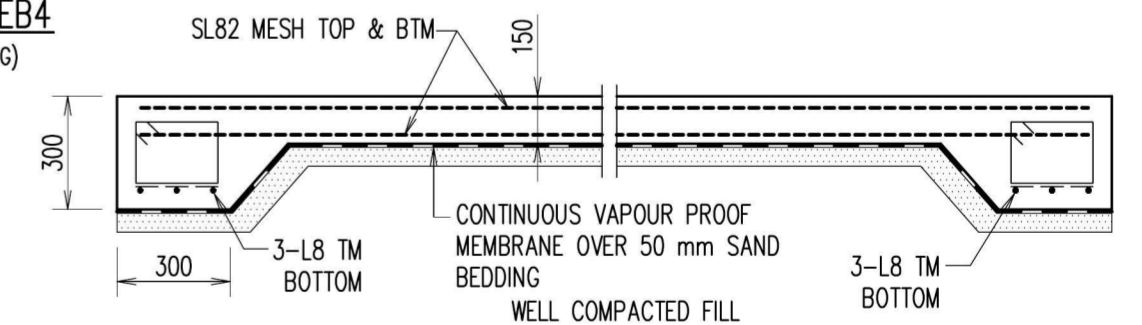
**PLASTIC DIAMOND POD CONNECTION DETAIL**  
SCALE - 1:20



**PLASTIC DIAMOND POD CONNECTION EDGE BEAM DETAIL**  
SCALE - 1:20



**GARAGE ENTRY EDGE BEAM DETAIL EB4**  
(20mm MAX. DEEP REBATE AT GARAGE DOOR OPENING)  
SCALE - 1:20



**TYPICAL RAFT SLAB TO BE USED FOR DRIVEWAY EB5**

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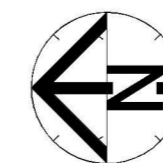
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No	AMENDMENT	ENG	DRAFT	DATE
A	ISSUED FOR COORDINATION	A.K.	D.V.	07.12.15

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PROJECT  
**307-321 CRANEBROOK ROAD  
CRANEBROOK**



SHEET SUBJECT  
**GROUND FLOOR  
DETAILS AND SECTIONS**

ARCH. REF: N/A

PROJECT	DATE	DRAWN	DESIGNED	CHECKED
	DEC 2015	D.V.	A.K.	M.W.
SCALE @ A2	JOB No		151037	
N/A	DWG No		S101	
AUTHORISED	REV		A	

# MARYANN BASTAC

## 307-321 CRANEBROOK ROAD, CRANEBROOK

### GENERAL

- G1 STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION, ARCHITECTURAL, CIVIL & RELEVANT ENGINEERING SERVICES DOCUMENTS AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
- G2 ALL DIMENSIONS SHOWN SHALL BE VERIFIED ON SITE. ENGINEERS DRAWINGS MUST NOT BE SCALED.
- G3 DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION & NO PART SHALL BE OVERSTRESSED.
- G4 ALL MATERIALS & WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- G5 UNLESS OTHERWISE NOTED ALL LEVELS ARE IN METRES & ALL DIMENSIONS ARE IN MILLIMETRES.
- G6 U.N.O. DENOTES UNLESS NOTED OTHERWISE.
- G7 THESE DRAWINGS ARE SIGNED SUBJECT TO A CERTIFICATE OF INSPECTION BEING ISSUED BY THIS OFFICE. ALL REINFORCEMENT SHALL BE INSPECTED BY THIS OFFICE PRIOR TO PLACING CONCRETE.
- G8 BRITTLE FLOOR COVERING SUCH AS CERAMIC TILES SHOULD BE LAID USING AN APPROVED FLEXIBLE ADHESIVE SYSTEM TO CONTROL THE EFFECT OF SHRINKAGE CRACKING. A MINIMUM PERIOD OF THREE MONTHS DRYING OF THE CONCRETE IS USUALLY REQUIRED BEFORE THE PLACEMENT OF BRITTLE FLOOR COVERINGS.
- G9 SUBTERRANEAN TERMITE PROTECTION IS TO BE PROVIDED IN ACCORDANCE WITH AS 3660.1 WITH ALL JOINTS ADEQUATELY LAPPED AND TAPED AT PENETRATIONS.

### FOOTINGS

- F1 FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 450 kPa. GEOTECHNICAL ENGINEER TO CONFIRM SAFE BEARING CAPACITY.
- F2 THIS SITE HAS BEEN CLASSIFIED AS CLASS M IN ACCORDANCE WITH AS2870.
- F3 GEOTECHNICAL REDUCTION FACTOR 0.4
- F4 FOUNDATION MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER FOR SAFE BEARING CAPACITY BEFORE CONSTRUCTION OF THE FOOTINGS.
- F5 EXCAVATION SHALL CONTINUE UNTIL THE REQUIRED BEARING CAPACITY IS FOUND. THE OVER-EXCAVATION SHALL BE BACK-FILLED WITH A MASS CONCRETE MIX TO THE APPROVAL OF THE ENGINEER.
- F6 ALL WALLS AND COLUMNS SHALL BE CONCENTRIC WITH SUPPORTING FOOTING UNLESS NOTED OTHERWISE.
- F7 THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXCAVATIONS IN A STABLE CONDITION WITHOUT AFFECTING ADJACENT PROPERTIES OR SERVICES. WHERE REQUIRED, TEMPORARY SHORING SHALL BE PROVIDED TO THE SIDES OF FOOTING EXCAVATIONS.

### SUBGRADE PREPARATION

- SP1 THE SITE SHALL BE EXCAVATED TO THE LEVELS SHOWN ON THE RELEVANT DRAWINGS.
- SP2 ALL TOPSOIL, ORGANIC AND DELETERIOUS MATERIAL IS TO BE STRIPPED FROM THE BUILDING SITE.
- SP3 SELECTED FILLINGS/HARD-CORE ETC. & SAND BLINDING UNDER SLABS SHOWN ON DRAWINGS SHALL BE PLACED IN LOOSE LAYERS NOT EXCEEDING 150mm & COMPACTED TO 98% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 E1.1 (DENOTED AS STRUCTURAL FILLING).
- SP4 ALL STRUCTURAL FILL TO BE APPROVED BY THE ENGINEER.
- SP5 THE OWNERS ATTENTION SHOULD BE DRAWN TO APPENDIX B OF AS 2870 "PERFORMANCE REQUIREMENTS AND FOUNDATION MAINTENANCE" ON COMPLETION OF THE JOB.
- SP6 EXCAVATION SHALL NOT EXTEND BELOW A LINE DIPPING AT 45° FOR CLAY AND 30° FOR SAND AND AWAY FROM THE NEAREST UNDERSIDE CORNER OF ANY EXISTING FOOTINGS.
- SP7 FILL MATERIAL BENEATH SLAB IS TO BE COMPACTED IN ACCORDANCE WITH AS 2870 & THE GEOTECHNICAL REPORT.
- SP8 THE SLAB IS TO BE ENTIRELY UNDERLAID WITH A 0.2mm POLYETHYLENE VAPOUR BARRIER WITH ALL JOINTS ADEQUATELY LAPPED AND TAPED AT PENETRATIONS.

### PILING

- P1 PILES AND PILING ARE IN ACCORDANCE WITH AS 2159.
- P2 THE CONTRACTOR SHALL INVESTIGATE THE PRESENCE OF ANY EXISTING SERVICES IN THE GROUND LIKELY TO BE AFFECTED BY THE PILING OPERATIONS.
- P3 THE CONTRACTOR IS RESPONSIBLE FOR THE SET OUT OF THE PILES. MAXIMUM ACCEPTABLE DEVIATION FROM CORRECT POSITION OF PILES IS 75mm. MAXIMUM ACCEPTABLE DEVIATION FROM VERTICAL ALIGNMENT IS 1 IN 100.
- P4 ALL PILES ARE TO BE BORED CAST IN PLACE.
- P5 ALL PILES ARE TO BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY DESIGN BEARING PRESSURES.
- P6 ALL PILES ARE TO BE INSPECTED BY A QUALIFIED STRUCTURAL ENGINEER TO VERIFY THE REINFORCEMENT
- P7 ALL PILE BORINGS ARE TO BE INSPECTED TO ENSURE THEY ARE CLEANED AND FREE OF LOOSE MATERIAL AND WATER PRIOR TO POURING CONCRETE, WHICH SHOULD BE WITH MINIMAL DELAY AND ON THE SAME DAY AS BORING.
- P8 THE INSPECTION SHOULD ENSURE ADEQUATE ROUGHNESS IS ACHIEVED IN THE PILE SHAFT TO GUARANTEE SHAFT ADHESION, THE USE OF A ROUGHENING TOOL IS RECOMMENDED.
- P9 SOME GROUNDWATER SEEPAGE INTO PILES CAN BE EXPECTED. WATER SHOULD BE PUMPED FROM THE PILES IMMEDIATELY PRIOR TO POURING CONCRETE, TREMIE TUBE TO BE USE IF DEPTH OF WATER EXCEEDS 1000mm.
- P10 OBSTRUCTIONS MAY BE EXPECTED WHEN DRILLING THROUGH EXISTING FILL.
- P11 CONCRETE COVER TO PILES TO BE 75mm.
- P12 CONCRETE STRENGTH TO BE 40 MPa U.N.O.
- P13 INFORMATION RELATING TO GROUND CONDITIONS HAS BEEN BASED ON THE GEOTECHNICAL ENGINEER'S REPORT.
- P14 THE CONTRACTOR SHOULD MAKE ALL NECESSARY SITE INVESTIGATIONS TO CONFIRM THE ACCURACY OR OTHERWISE OF THE GEOTECHNICAL REPORT.
- P15 ON COMPLETION OF PILING, A DRAWING PREPARED BY A REGISTERED SURVEYOR SHALL BE PREPARED GIVING THE POSITION OF THE PILES RELATIVE TO THEIR NOMINATED POSITION AND THE LEVEL OF THE TOP OF THE PILES. THE DRAWING SHALL BE FORWARDED TO THE ENGINEER FOR APPROVAL BEFORE ANY FURTHER WORK ASSOCIATED WITH THE PILES COMMENCES.

### BRICKWORK AND BLOCKWORK

- B1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT SAA MASONRY CODE, AS 3700 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- B2 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, THE TOP 2 COURSES OF BRICKS SHALL BE LAID WITH REINFORCEMENT IN THE JOINTS.
- B3 WHERE WALLS ARE NON LOAD BEARING AT EITHER HORIZONTAL OR VERTICAL FACES THEY SHALL BE SEPERATED FROM THE CONCRETE BY 20mm THICK 'CANETITE' OR EXPANDED POLYSTYRENE U.N.O.
- B4 NO HOLES OR CHASES SHALL BE CUT IN LOAD BEARING BRICKWORK OR BLOCKWORK WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- B5 ALL CONCRETE BLOCK WALLS SHALL BE BUILT TO A GAUGE CONCRETE BLOCK SUCH THAT BLOCK-PLANS-JOINT DIMENSIONS ARE MULTIPLES OF 100mm USING STRETCHER BOND UNLESS SPECIFIED OTHERWISE.
- B6 CONCRETE BLOCKS SHALL BE GRADE 12 UNITS CONFORMING TO AS 2733
- B7 MORTAR SHALL BE FRESHLY PREPARED AND COMPOSED OF CEMENT: LIME:SAND IN THE RATIO OF 1:1:6 AND SHALL CONFORM TO AS3700.
- B8 CORES TO BE FILLED WHERE REQUIRED WITH CONCRETE OF STRENGTH  $f_c = 20$  MPa, 10mm MAX. AGGREGATE SIZE AND A MAX. SLUMP OF 230mm, IN LIFTS NOT MORE THAN 1200 mm HIGH.
- B9 CLEAN OUT OPENINGS ARE REQUIRED AT THE BASE OF ALL REINFORCED WALLS AND ABOVE HORIZONTAL CONSTRUCTION JOINTS.
- B10 REINFORCEMENT SHALL BE POSITIONED AS SHOWN AND HAVE A MINIMUM CONCRETE COVER OF 20mm U.N.O.
- B11 JOINT REINFORCEMENT SHALL BE IN ACCORDANCE WITH AS 3700.
- B12 VERTICAL CONTROL JOINTS IN BLOCK RETAINING WALLS AND BLOCK WALLS TO BE SPACED AS SHOWN OR AT 6000mm MAX. APART. VERTICAL CONTROL JOINTS IN BRICKWORK TO BE SPACED AT 5000mm MAX. APART.
- B13 A 300mm WIDE STRIP OF COARSE GRAINED MATERIAL IS TO BE PLACED BEHIND ALL RETAINING WALLS.
- B14 BRICK TIES TO COMPLY WITH AS3700 AND BE OF STAINLESS STEEL DUE TO REQUIRED EXPOSURE.
- B15 BED JOINT REINFORCEMENT M.E.T. GALVANISED MASONRY REINFORCEMENT (SUPPLIED BY DUNSTONE MAZE OR EQUAL) AT EVERY THIRD BED JOINT.

### TIMBER NOTES

- T1 ALL TIMBER DESIGN AND CONSTRUCTION TO BE AS1720 U.N.O.
- T2 AS 1684 IS RELEVANT TO DOMESTIC CONSTRUCTION IN SHELTERED LOCATIONS.
- T3 SOFTWOOD MINIMUM GRADE F7 U.N.O. HARDWOOD MINIMUM GRADE F11 U.N.O.
- T4 EXTERNAL TIMBER TO BE EITHER HARDWOOD DURABILITY CLASS I OR II OR IMPREGNATED GRADE F7. PRESSURE TREATED TO AS1684 AND RE-DRILLED PRIOR TO USE. SUPPLEMENTARY TREATMENT SHALL BE APPLIED TO ALL CUT SURFACES. PROVIDE DOCUMENTATION.
- T5 ALL BOLTS IN TIMBER CONSTRUCTION TO BE MIN. M16 U.N.O. BOLT HOLES TO BE DRILLED EXACT SIZE. WASHERS UNDER HEADS AND NUTS TO BE AT LEAST 2.5 TIMES BOLT DIAMETER.
- T6 FINISHED TIMBER SIZES:  
SEASONED SOFTWOOD +5,-0mm  
UNSEASONED SOFTWOOD F7+3,-3mm  
SEASONED HARDWOOD +2,-0mm  
UNSEASONED HARDWOOD -3,-3mm  
(SEE ALSO CLAUSE 1.6.2 IN AS 2082)
- T7 ALL TIMBER JOINTS AND NOTCHES TO BE 100mm MINIMUM FROM LOOSE KNOTS. SEVERE SLOPING GRAIN, GUM VEINS OR OTHER MINOR DEFECTS.
- T8 BLOCKING IS NOT REQUIRED FOR JOISTS SPANNING LESS THAN 3m. FOR JOISTS SPANNING GREATER THAN 3m AND LESS THAN 4.2m PROVIDE ONE ROW OF BLOCKING MID-SPAN. FOR JOISTS SPANNING GREATER THAN 4.2m AND UP TO 6.0m PROVIDE TWO ROWS OF BLOCKING AT 1/3 POINTS. FOR DEEP JOISTED FLOORS WHERE A CONTINUOUS TRIMMING JOIST IS NOT PROVIDED AT END OF JOISTS. BLOCKING IS REQUIRED AT 1800 MAXIMUM CENTERS. (REFER TO AS 1684)

### CONCRETE

- C1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- C2 SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- C3 CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
- C4 BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS.
- C5 NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- C6 REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY: IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- C7 SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITION SHOWN. THE WRITTEN APPROVAL OF THE ENGINEER SHALL BE OBTAINED FOR ANY OTHER SPLICE.
- C8 WELDING OF REINFORCEMENT WILL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.
- C9 REINFORCEMENT SYMBOLS  
N HOT ROLLED DEFORMED BAR TO AS1302 GRADE 500 N  
S HOT ROLLED DEFORMED BAR TO AS1302 GRADE 230 S  
R PLAIN ROUND BAR TO AS1302 GRADE 230 R  
SL WELDED WIRE FABRIC IN ACCORDANCE WITH AS1304  
THE NUMBER FOLLOWING THE BAR SYMBOLS IS THE NOMINAL BAR DIAMETER IN MILLIMETRES.
- C10 LAP FABRIC ONE FULL MESH, PLUS 25 BOTH WAYS, UNLESS OTHERWISE SHOWN.
- C11 LAP BARS 50 BAR DIAMETERS, UNLESS OTHERWISE SHOWN.
- C12 ALL REINFORCEMENT SHALL BE PROVIDED WITH SUFFICIENT CHAIRS, SUPPORTS AND ADDITIONAL TIE BARS WHERE NECESSARY SO THAT CORRECT POSITION IS MAINTAINED DURING CONCRETING. CHAIRS TO BE SPACED AT 900 MAXIMUM CENTRES EACH WAY.
- C13 WHERE CONCRETE BEARS ON BRICKWORK IT SHALL BE SEPARATED THEREFROM BY TWO LAYERS OF MALTHOD OR GALVANISED SHEET STEEL.
- C14 CONCRETE IS TO BE COMPACTED USING HIGH FREQUENCY VIBRATORS.
- C15 BRICKWORK SHALL NOT BE BUILT OVER SUSPENDED SLABS

DWG. NO.	DRAWING REGISTER (STRUCTURAL)
S0000	GENERAL NOTES
S100	GROUND FLOOR WAFFLE POD PLAN
S101	GROUND FLOOR DETAILS AND SECTIONS
S102	GROUND FLOOR WAFFLE POD DETAILS
S110	BRIDGE BOTTOM SLAB TOP AND BOTTOM REO
S120	BRIDGE TOP SLAB PLAN
S122	BRIDGE TOP SLAB TOP AND BOTTOM REO
S125	BRIDGE SECTION

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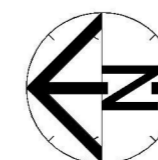
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No	AMENDMENT	ENG	DRAFT	DATE

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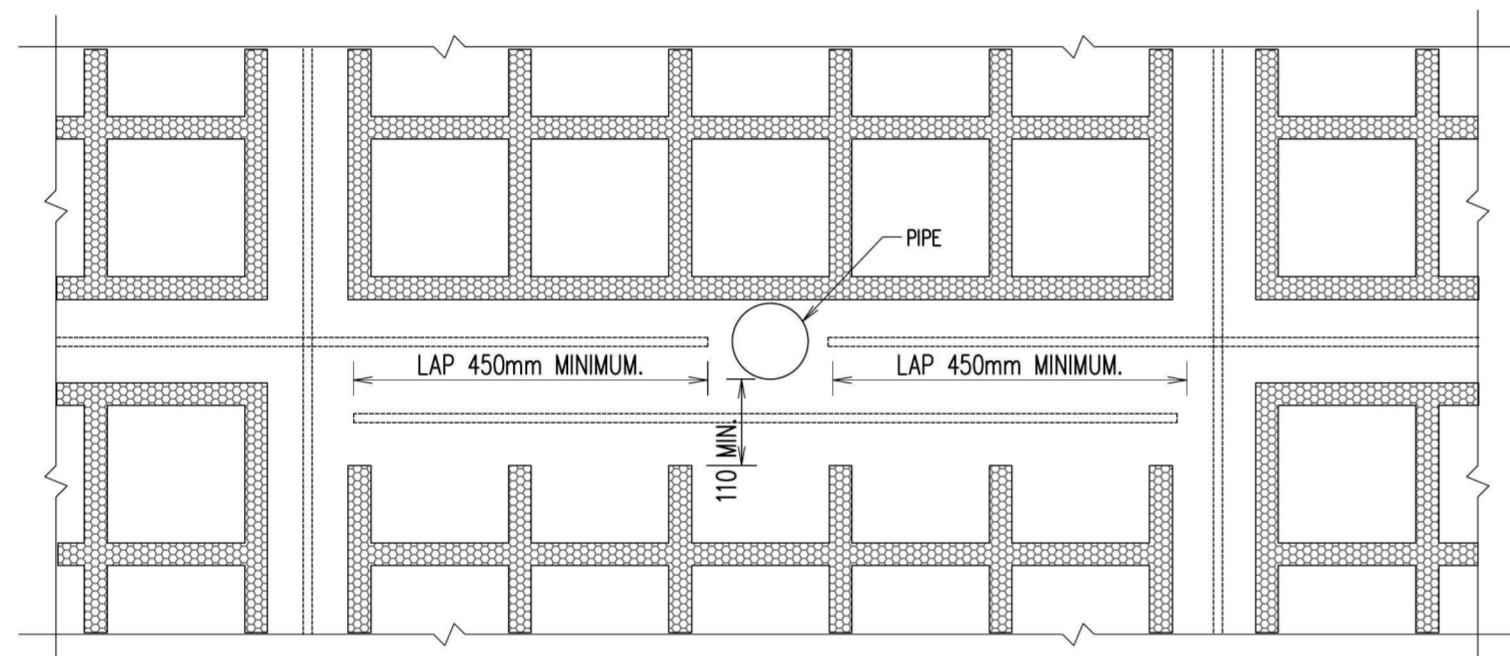
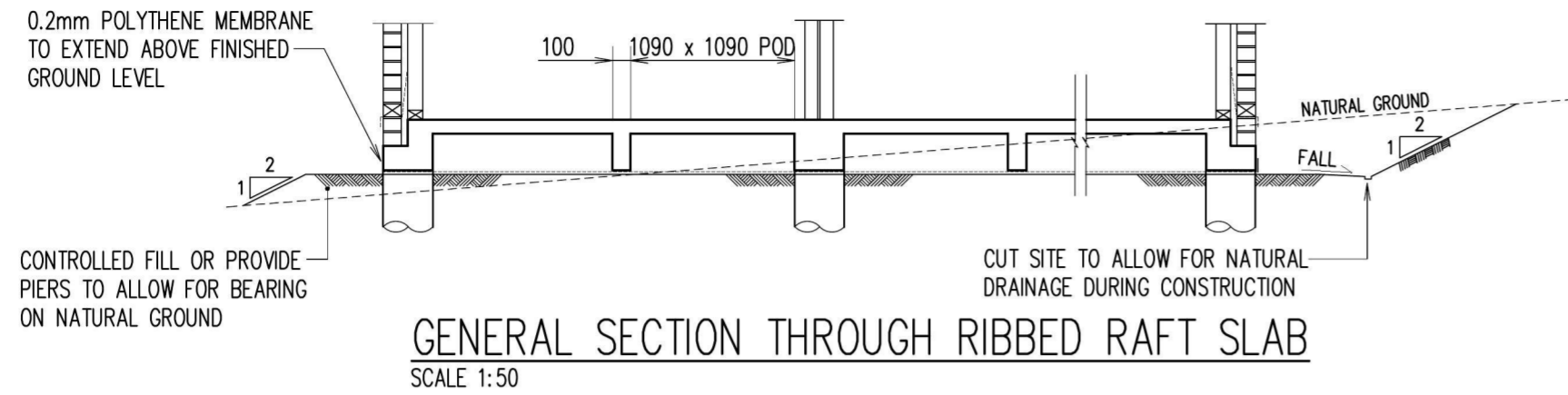
PROJECT  
307-321 CRANEBROOK ROAD  
CRANEBROOK



SHEET SUBJECT  
GENERAL NOTES

ARCH. REF:  
N/A

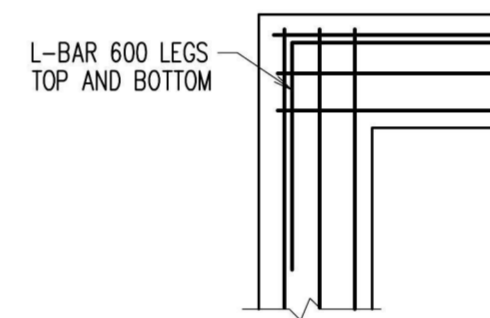
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SCALE @ A2		JOB No	
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**RIB PENETRATION DETAIL**  
NOTE: IF PLUMBING RISERS CLASH WITH RIBS MAINTAIN MINIMUM RIB WIDTH OF 110mm BY CUTTING ENDS OFF PODS AND LAPPING REINFORCEMENT AS DETAILED.

**PRINCIPAL INTERNAL RIB REINFORCEMENT**

- TOP- PROVIDE 1N12 EXTRA CONTINUOUS LAPPED 600MM AT MIDSPAN BETWEEN PIERS AND TIED TO UNDERSIDE OF MESH
- BOTTOM- PROVIDE 1N12



**TYPICAL CORNER DETAIL**  
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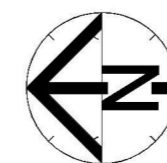
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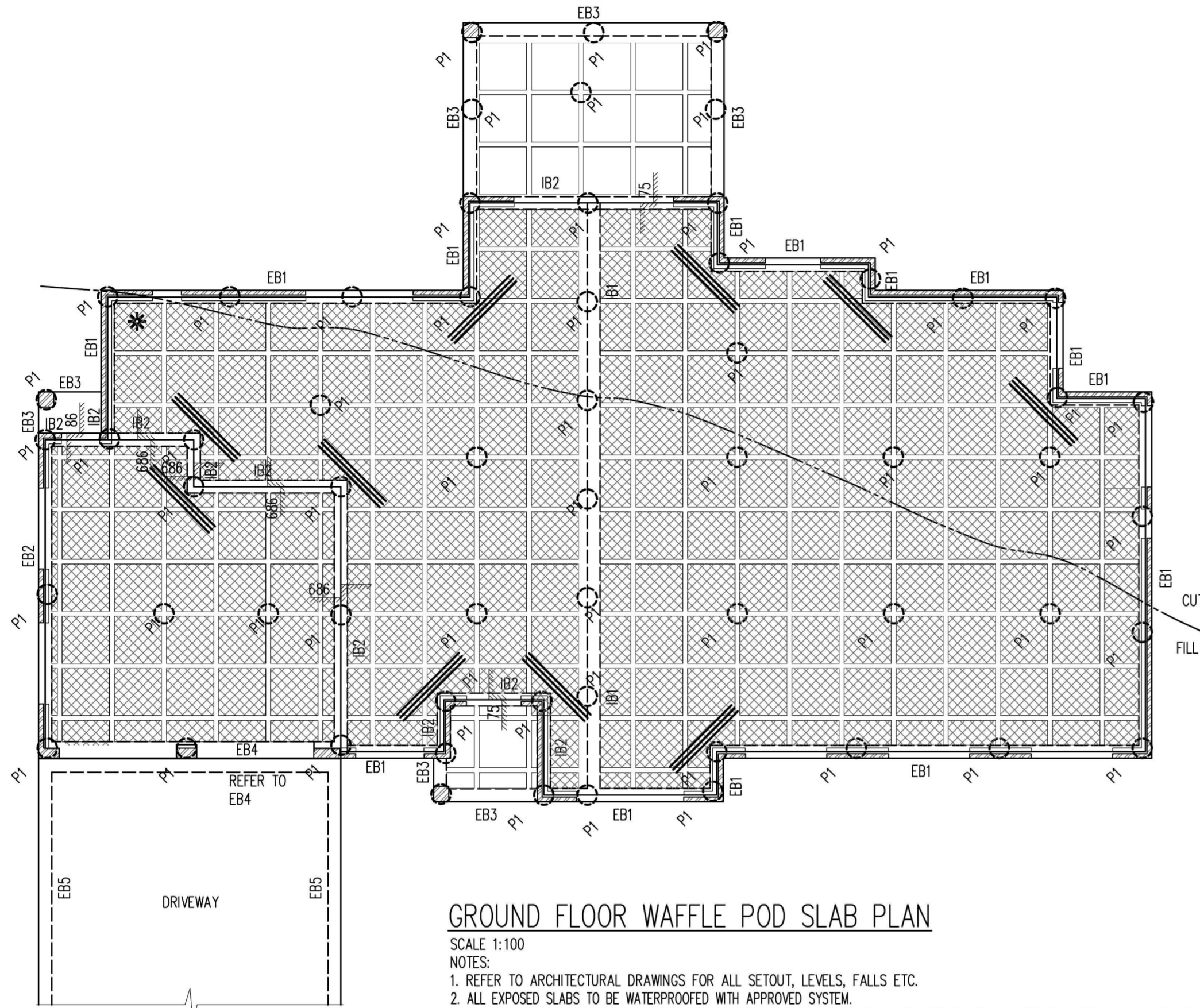
PROJECT  
307-321 CRANEBROOK ROAD  
CRANEBROOK



SHEET SUBJECT  
GROUND FLOOR WAFFLE POD  
DETAILS

ARCH. REF: N/A

PROJECT		DATE	DRAWN	DESIGNED	CHECKED
		DEC 2015	D.V.	A.K.	M.W.
SCALE @ A2				JOB No	
N/A				151037	
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			S102		A



**GROUND FLOOR WAFFLE POD SLAB PLAN**

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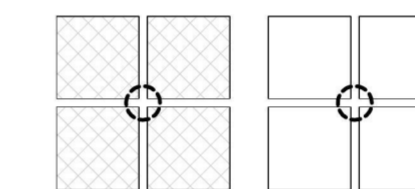
NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT, LEVELS, FALLS ETC.
2. ALL EXPOSED SLABS TO BE WATERPROOFED WITH APPROVED SYSTEM.
3. GEOTECHNICAL ENGINEER TO CONFIRM THE SAFE BEARING CAPACITY OF THE FOUNDATION MATERIAL PRIOR TO CONSTRUCTION.
4. IF GROUND CONDITIONS CHANGE DURING EXCAVATION, PLEASE NOTIFY ENGINEER AND SEEK FURTHER INSTRUCTIONS.
5. 'P1' DENOTES 450 MASS CONCRETE PILES. PILES TO BE TAKEN DOWN TO ACHIEVE A MINIMUM OF 450KPA, GEOTECHNICAL ENGINEER TO APPROVE. IF DEPTH OF PILE EXCEEDS 2m ENGINEER TO BE NOTIFIED.
6. DRIVEWAY & GARAGE SLAB TO BE 150mm THICK WITH SL82 MESH TOP & BOTTOM.

**LEGEND :**

- DENOTES STEP ON SLAB
- DENOTES BRICK VENEER WALL OVER
- DENOTES 150 POD
- DENOTES 225 POD
- DENOTES POD STARTING POINT
- DENOTES 600 SQ. POD CUTOUT (MASS CONCRETE PAD UNDER LOAD BEARING POINT)
- DENOTES 3N12 OR EQUIV. (OR 3L11TM) CRACK CONTROL BARS, 2000mm LONG TIED TO UNDERSIDE OF SLAB TOP MESH.

**PLAN:**



**EXTERNAL RIB REINFORCEMENT**

BEAM WIDTH	TOP STEEL	BOTTOM STEEL
150-259mm	-	2N12
260-300mm	1N12	3N12
301-370mm	2N12	4N12
371-480mm	3N12	5N12
481-600mm	4N12	6N12

**POD NOTES:**

1. USE POD SIZE: 1090 x 1090.
2. 85mm THICK SLAB U.N.O.
3. SL82 MESH TOP, 30mm MIN. TOP COVER.
4. MAX. RIB SPACING 1200 c/c.
5. SITE CLASSIFICATION - "M".

**NOTE:**  
FOR WAFFLE POD SLAB DETAILS REFER TO SHEET S101

**NOTE:**  
GEOTECHNICAL ENGINEER TO CONFIRM 450KPA BEARING SOIL CAPACITY (CLASS M)

**NOTE:**  
IN LIEU OF CONCRETE PIERS, SCREW PILES MAY BE ADOPTED



FOR STRUCTURAL NOTES REFER TO DRAWING S0000

**NOTES:**

1. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURALS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT, LEVELS,

MEMBER	COVER ( mm )			EXPOSURE CLASSIFICATION
	TOP	BOTTOM	SIDES	
FOOTINGS	50mm	50mm	50mm	A1
SLAB	30mm	30mm	30mm	A1

ELEMENT	SLUMP	AGGREGATE ( MAX. SIZE )	CEMENT TYPE	f'c
FOOTING	80mm	20mm	A	25MPa
PILES	180mm	10mm	A	25MPa

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No	AMENDMENT	ENG	DRAFT	DATE
B	ISSUED FOR C.C.	S.A.H	S.A.H	07.07.16
A	ISSUED FOR COORDINATION	A.K.	D.V.	07.12.15

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 PH: (02) 9763 1500 FX: (02) 9763 1515  
 EMAIL: info@aceeng.com.au

PROJECT  
307-321 CRANBROOK ROAD  
CRANBROOK

SHEET SUBJECT  
GROUND FLOOR WAFFLE POD PLAN

ARCH. REF: N/A

PROJECT	DATE	DRAWN	DESIGNED	CHECKED
	DEC 2015	D.V.	A.K.	M.W.
SCALE @ A2	N/A		JOB No	151037
AUTHORISED	S100		DWG No	REV B

**LEGEND :**

-  DENOTES REINFORCED CONCRETE WALL OVER
-  DENOTES REINFORCED CONCRETE WALL UNDER

FOR STRUCTURAL NOTES REFER TO DRAWING S0000

**NOTES:**

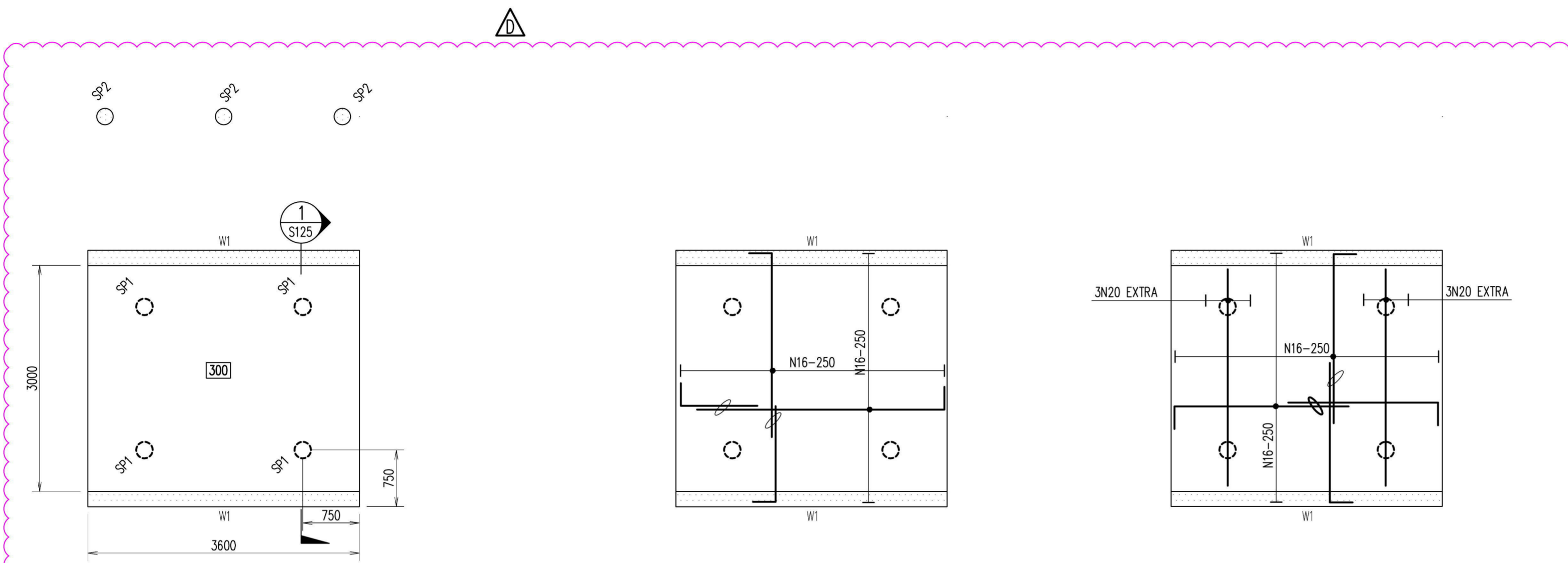
1. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURALS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT, LEVELS,

REINFORCEMENT COVER SCHEDULE				
MEMBER	COVER ( mm )			EXPOSURE CLASSIFICATION
	TOP	BOTTOM	SIDES	
BOTTOM SLAB	50mm	50mm	50mm	B2
W1	40mm	40mm	40mm	B1

CONCRETE QUALITY				
ELEMENT	SLUMP	AGGREGATE ( MAX. SIZE )	CEMENT TYPE	f <sub>c</sub>
SLAB	80mm	20mm	A	40MPa
WALL	80mm	20mm	A	40MPa

SCREW PILE LOADS			
PIER NUMBER	WORKING LOAD	CHS $\phi$ + HELIX $\phi$ + THICKNESS	SHEAR BARS
SP1	250 kN	CONTRACTOR DETAILS	1N20-400 LONG
SP2	100 kN	CONTRACTOR DETAILS	1N20-1000 LONG

- \* GEOTECHNICAL ENGINEER TO CONFIRM THE SAFE BEARING CAPACITY OF THE FOUNDING MATERIAL PRIOR TO CONSTRUCTION.
- \* DEPTH OF SCREW PILES TO BE CONFIRMED BY CONTRACTOR.



**BOTTOM SLAB  
BOTTOM REINFORCEMENT PLAN**

SCALE: 1:50  
 NOTES:  
 1. ENSURE 50 x BAR DIA MINIMUM LAP IS MAINTAINED FOR ALL REINFORCEMENT BARS.  
 2. REFER SECTIONS ON S125 FOR ADDITIONAL REOS N.S.O.P.

**BOTTOM SLAB  
TOP REINFORCEMENT PLAN**

SCALE: 1:50  
 NOTES:  
 1. ENSURE 50 x BAR DIA MINIMUM LAP IS MAINTAINED FOR ALL REINFORCEMENT BARS.  
 2. REFER SECTIONS ON S125 FOR ADDITIONAL REOS N.S.O.P.

**BOTTOM SLAB**

SCALE 1:50  
 NOTES:  
 1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT, LEVELS, FALLS ETC.  
 2. ALL EXPOSED SLABS TO BE WATERPROOFED WITH APPROVED SYSTEM.  
 3. 'W1' DENOTES REINFORCED CONCRETE WALL, REFER S125 FOR DETAILS.  
 4. GEOTECHNICAL ENGINEER TO CONFIRM THE SAFE BEARING CAPACITY OF THE FOUNDATION MATERIAL PRIOR TO CONSTRUCTION.  
 5. IF GROUND CONDITIONS CHANGE DURING EXCAVATION, PLEASE NOTIFY ENGINEER AND SEEK FURTHER INSTRUCTIONS.

**BAR LAYING SEQUENCE**

U.N.O.

**BAR LAYING SEQUENCE**

U.N.O.

S:\p44\ Jul 07, 2016 - 12:02PM W:\2015\151037\STRUCTURAL\S110.dwg

A2 0 1 2 3 4 5 6 7 8 9 10

No	AMENDMENT	ENG	DRAFT	DATE
D	ISSUED FOR CONSTRUCTION	A.K.	D.V.	07.07.16
C	ISSUED FOR COORDINATION	A.K.	D.V.	19.01.16
B	ISSUED FOR COORDINATION	A.K.	D.V.	15.01.2016
A	ISSUED FOR COORDINATION	A.K.	D.V.	07.12.15

CLIENT  
**MARYANN BASTAC**

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PROJECT  
307-321 CRANEBROOK ROAD  
CRANEBROOK



SHEET SUBJECT  
BRIDGE BOTTOM SLAB  
TOP & BOTTOM REO

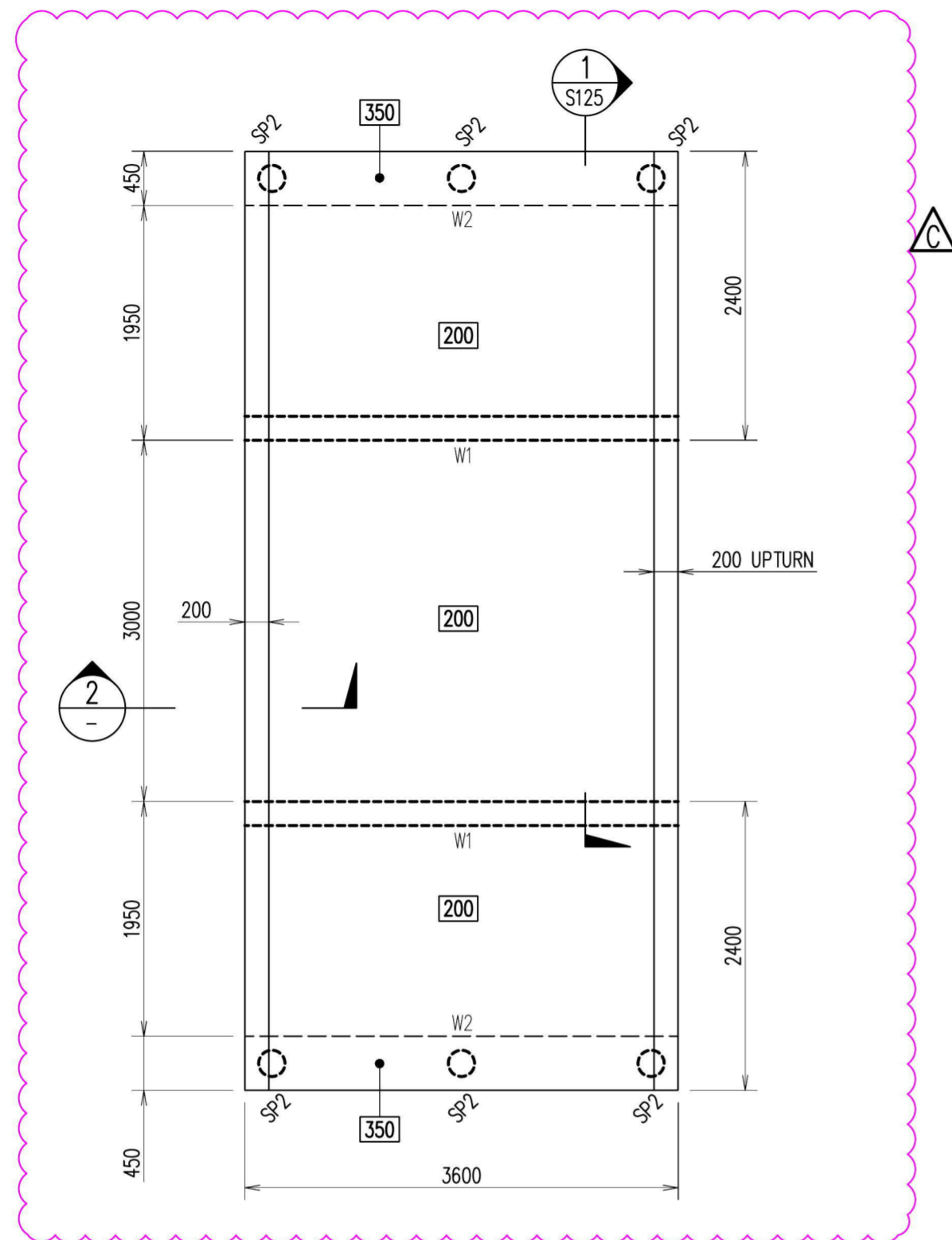
ARCH. REF:  
N/A

PROJECT			
DATE	DRAWN	DESIGNED	CHECKED
JAN 2016	D.V.	A.K.	M.W.
SCALE @ A2 N/A		JOB No 151037	
AUTHORISED		DWG No S110	REV D

FOR STRUCTURAL NOTES REFER TO DRAWING S0000

**NOTES:**

1. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURALS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT, LEVELS,



REINFORCEMENT COVER SCHEDULE				
MEMBER	COVER ( mm )			EXPOSURE CLASSIFICATION
	TOP	BOTTOM	SIDES	
TOP SLAB	30mm	30mm	30mm	B1
W1	40mm	40mm	40mm	B1

CONCRETE QUALITY				
ELEMENT	SLUMP	AGGREGATE ( MAX. SIZE )	CEMENT TYPE	f <sub>c</sub>
SLAB	80mm	20mm	A	40MPa
WALL	80mm	20mm	A	40MPa

\* GEOTECHNICAL ENGINEER TO CONFIRM THE SAFE BEARING CAPACITY OF THE FOUNDING MATERIAL PRIOR TO CONSTRUCTION.

**TOP SLAB**

SCALE 1:50

NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT, LEVELS, FALLS ETC.
2. ALL EXPOSED SLABS TO BE WATERPROOFED WITH APPROVED SYSTEM.
3. 'W1' DENOTES REINFORCEMENT CONCRETE WALL, REFER S125 FOR DETAILS.
4. GEOTECHNICAL ENGINEER TO CONFIRM THE SAFE BEARING CAPACITY OF THE FOUNDATION MATERIAL PRIOR TO CONSTRUCTION.
5. IF GROUND CONDITIONS CHANGE DURING EXCAVATION, PLEASE NOTIFY ENGINEER AND SEEK FURTHER INSTRUCTIONS.

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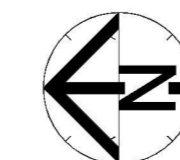
A2 0 1 2 3 4 5 6 7 8 9 10

No	AMENDMENT	ENG	DRAFT	DATE
D	ISSUED FOR CONSTRUCTION	A.K.	D.V.	07.07.16
C	ISSUED FOR COORDINATION	A.K.	D.V.	19.01.16
B	ISSUED FOR COORDINATION	A.K.	D.V.	15.01.2016
A	ISSUED FOR COORDINATION	A.K.	D.V.	07.12.15

CLIENT  
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PROJECT  
307-321 CRANEBROOK ROAD  
CRANEBROOK



SHEET SUBJECT  
BRIDGE TOP SLAB  
PLAN

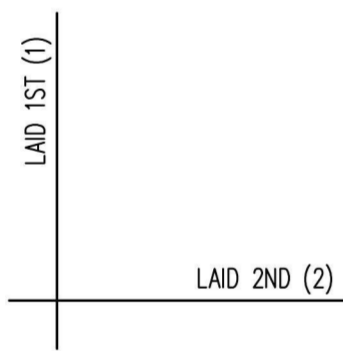
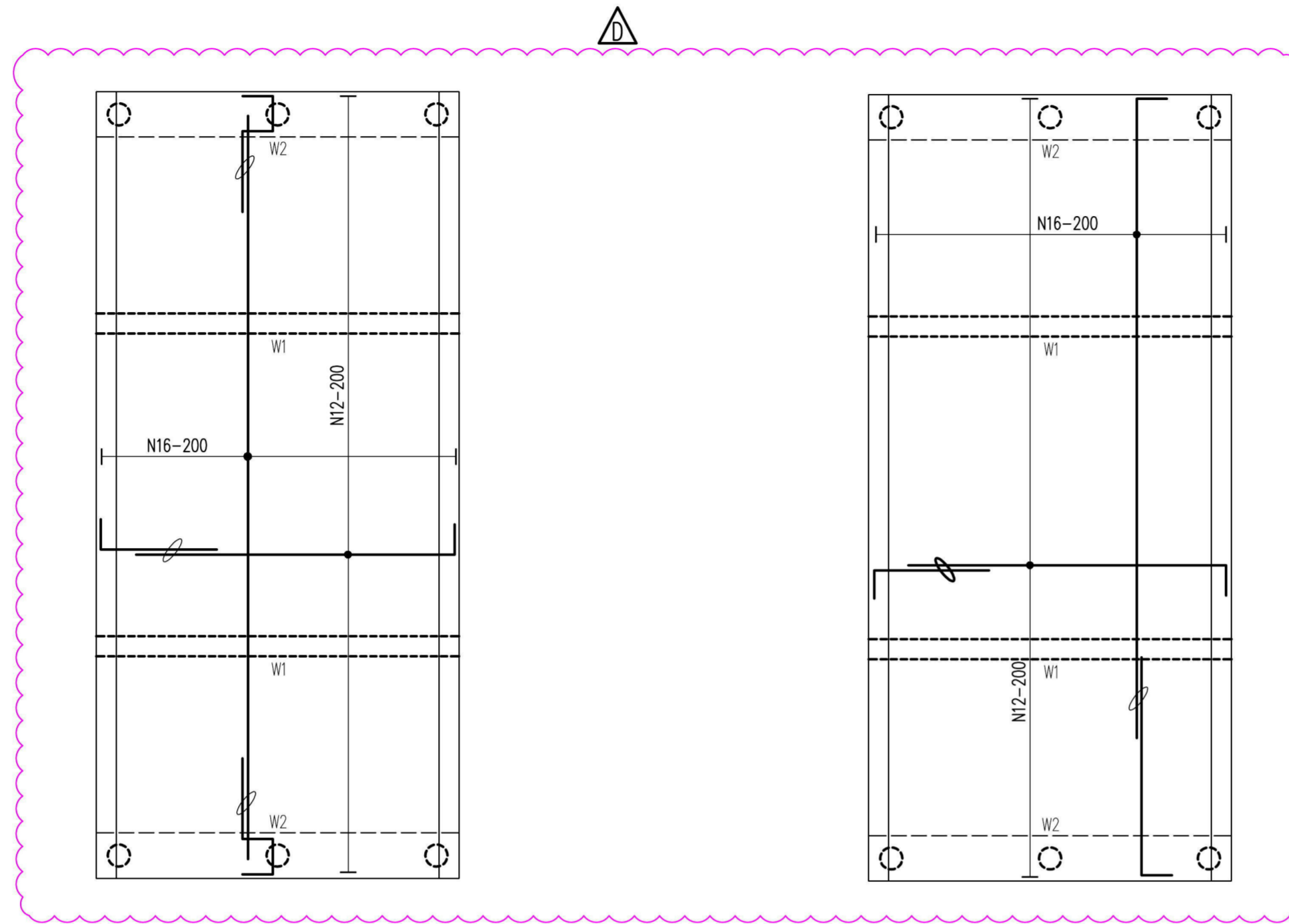
ARCH. REF:  
N/A

PROJECT			
DATE	DRAWN	DESIGNED	CHECKED
JAN 2016	D.V.	A.K.	M.W.
SCALE @ A2 N/A		JOB No 151037	
AUTHORISED		DWG No S120	REV D

FOR STRUCTURAL NOTES REFER TO DRAWING S0000

**NOTES:**

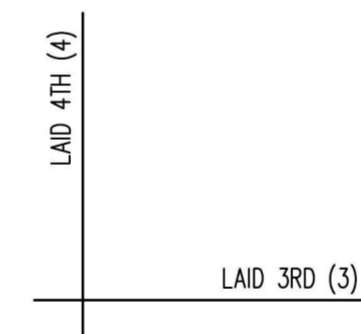
1. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURALS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT, LEVELS,



**BAR LAYING SEQUENCE**  
U.N.O.

**TOP SLAB**  
**BOTTOM REINFORCEMENT PLAN**

SCALE: 1:50  
NOTE:  
ENSURE 50 x BAR DIA MINIMUM LAP IS MAINTAINED FOR ALL REINFORCEMENT BARS.



**BAR LAYING SEQUENCE**  
U.N.O.

**TOP SLAB**  
**TOP REINFORCEMENT PLAN**

SCALE: 1:50  
NOTE:  
ENSURE 50 x BAR DIA MINIMUM LAP IS MAINTAINED FOR ALL REINFORCEMENT BARS.

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A2 0 1 2 3 4 5 6 7 8 9 10

D	ISSUED FOR CONSTRUCTION	A.K.	D.V.	07.07.16
C	ISSUED FOR COORDINATION	A.K.	D.V.	19.01.16
B	ISSUED FOR COORDINATION	A.K.	D.V.	15.01.2016
A	ISSUED FOR COORDINATION	A.K.	D.V.	07.12.15
No	AMENDMENT	ENG	DRAFT	DATE

CLIENT  
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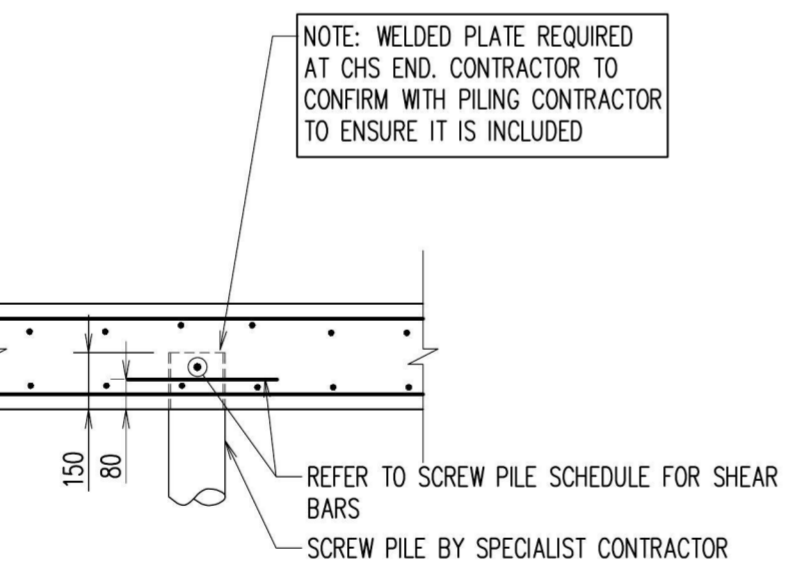
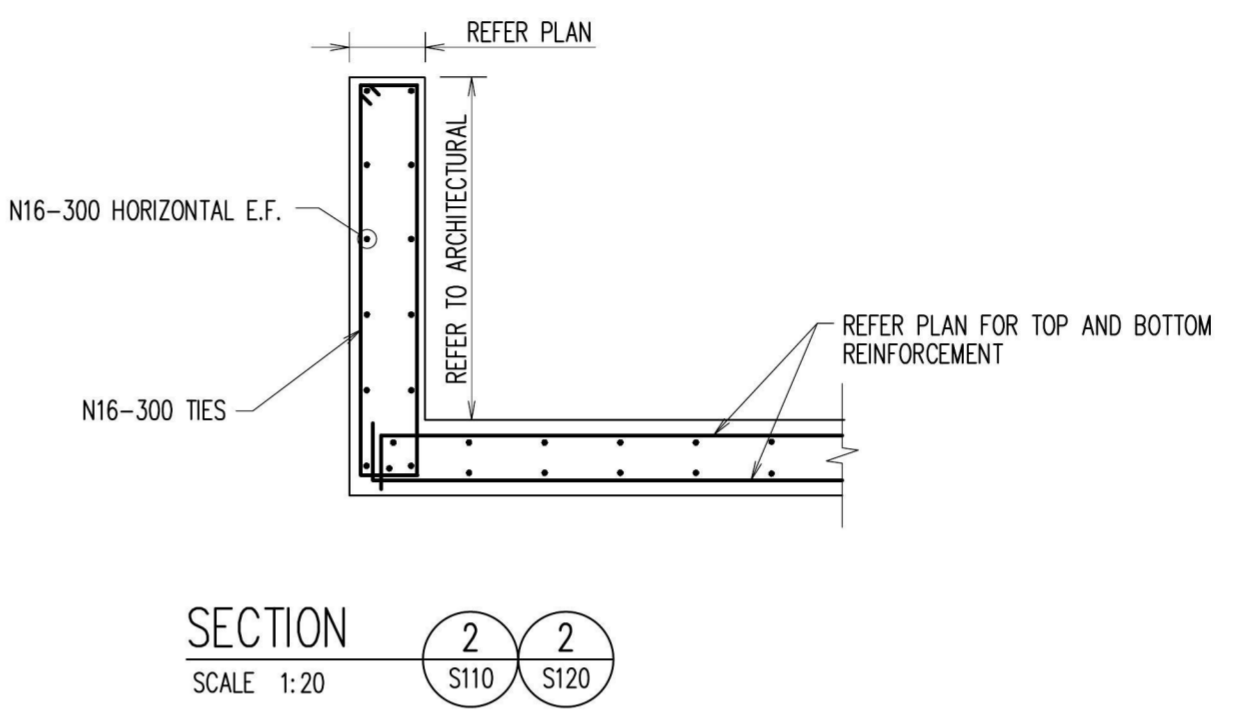
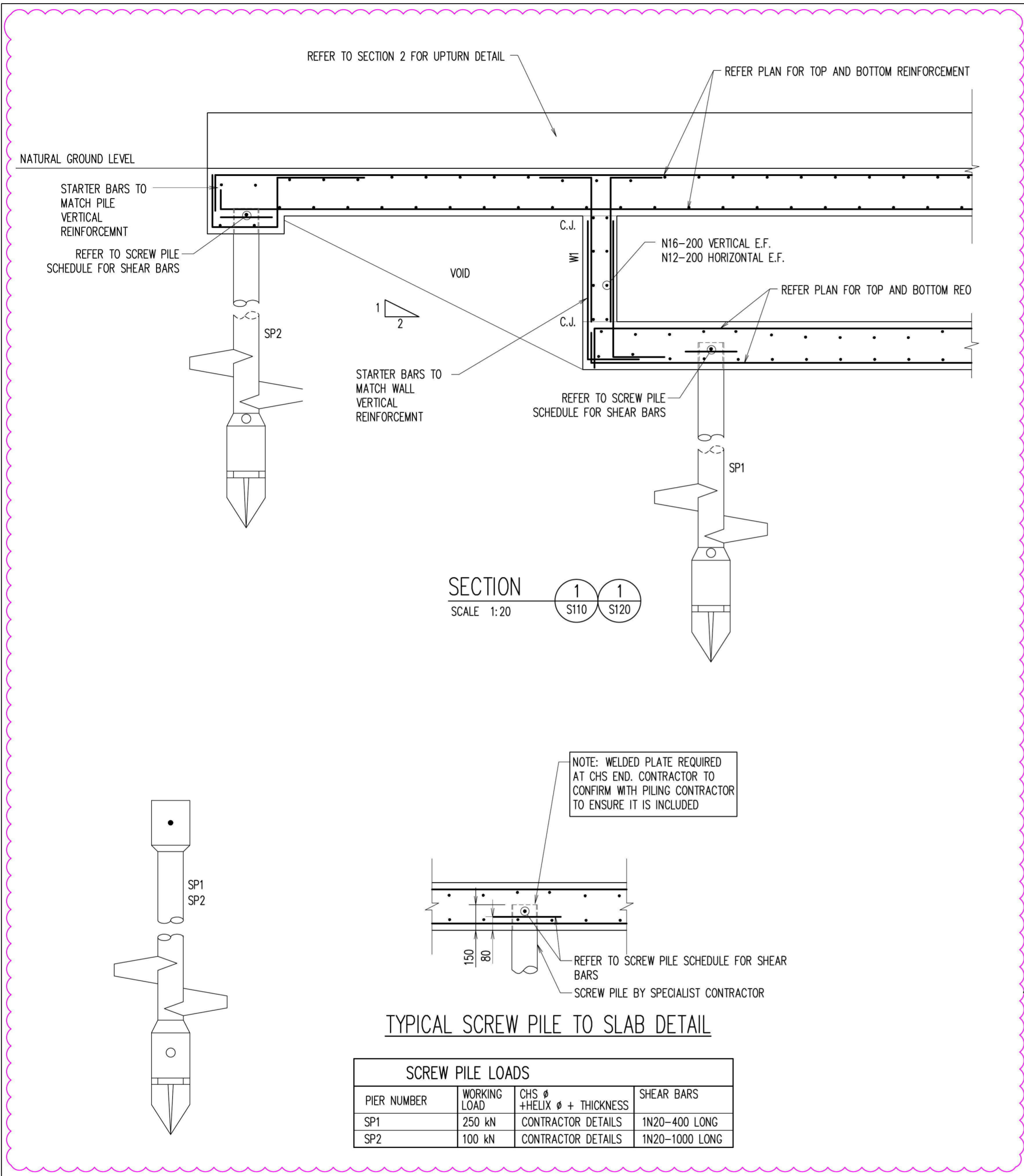
PROJECT  
307-321 CRANEBROOK ROAD  
CRANEBROOK



SHEET SUBJECT  
BRIDGE TOP SLAB  
TOP & BOTTOM REO

ARCH. REF:  
N/A

PROJECT		DATE	DRAWN	DESIGNED	CHECKED
		JAN 2016	D.V.	A.K.	M.W.
SCALE @ A2		JOB No		151037	
N/A		AUTHORISED		DWG No	REV
				S122	D



TYPICAL SCREW PILE TO SLAB DETAIL

SCREW PILE LOADS			
PIER NUMBER	WORKING LOAD	CHS $\phi$ + HELIX $\phi$ + THICKNESS	SHEAR BARS
SP1	250 kN	CONTRACTOR DETAILS	1N20-400 LONG
SP2	100 kN	CONTRACTOR DETAILS	1N20-1000 LONG

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A2 0 1 2 3 4 5 6 7 8 9 10

No	AMENDMENT	ENG	DRAFT	DATE
D	ISSUED FOR CONSTRUCTION	A.K.	D.V.	07.07.16
C	ISSUED FOR COORDINATION	A.K.	D.V.	19.01.16
B	ISSUED FOR COORDINATION	A.K.	D.V.	15.01.2015
A	ISSUED FOR COORDINATION	A.K.	D.V.	07.12.15

CLIENT  
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PROJECT  
**307-321 CRANEBROOK ROAD  
CRANEBROOK**

SHEET SUBJECT  
**BRIDGE SECTION**

ARCH. REF: N/A

PROJECT			
DATE	DRAWN	DESIGNED	CHECKED
JAN 2016	D.V.	A.K.	M.W.
SCALE @ A2 N/A		JOB No <b>151037</b>	
AUTHORISED		DWG No <b>S125</b>	REV <b>D</b>