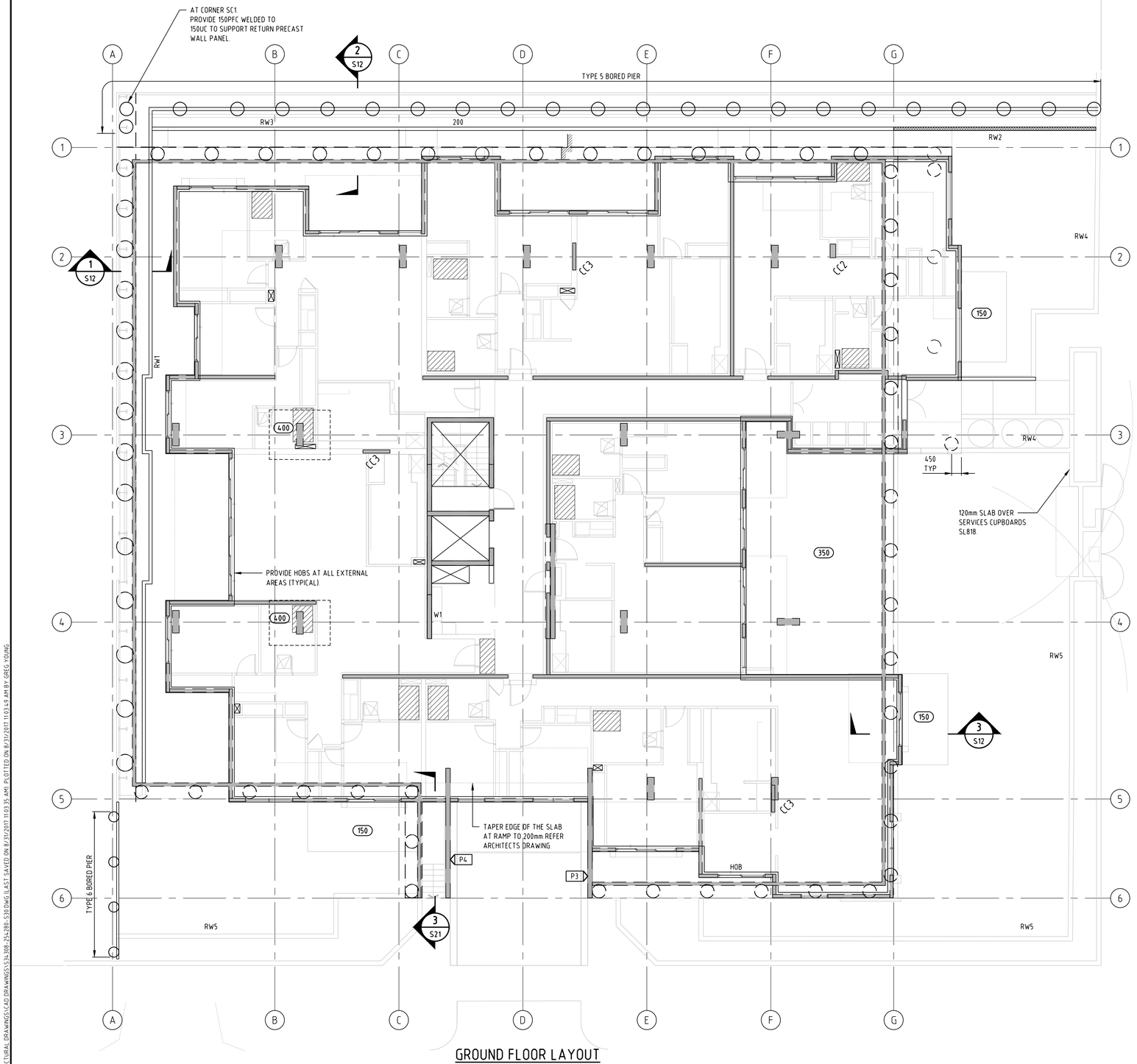

GROUND FLOOR LAYOUT

SCALE 1:100

LEGEND

- LOADBEARING WALL OVER.
- LOADBEARING WALL UNDER.
- LOADBEARING WALL OVER & UNDER.
- CC1 — CONCRETE COLUMN OVER.
- CC1 — CONCRETE COLUMN UNDER.
- CC1 — CONCRETE COLUMN OVER & UNDER.
- W1 — DENOTES LOADBEARING WALL.
- 350 — DENOTES SLAB THICKNESS U.N.O.
- 50mm MAX. SLAB SETDOWN TO BATHROOM ONLY.
- SCJ — SLAB SAWCUT JOINT. REFER S21 FOR DETAIL.
- C J — SLAB CONSTRUCTION JOINT. REFER S21 FOR DETAIL.
- C/W — DENOTES COLUMN OVER
- C/W — DENOTES COLUMN UNDER
- FLOOR PENETRATION. REFER SERVICES DRAWINGS FOR SIZE AND LOCATION

W1 WALL TYPE 1, 150mm THICK AFS LOGIC WALL PANELS. N12@200 HORIZONTAL. N12@300 VERTICAL. REFER DRAWING S31 FOR TYPICAL DETAILS. INSTALL AS PER MANUFACTURERS INSTRUCTIONS.

FLOOR SLAB DATA: (U.N.O.)

350mm THICK POST TENSIONED SLAB THROUGHOUT
CONCRETE GRADE = 40MPa

ALL WALLS ARE W1 U.N.O.

REFER DRAWING S25 FOR STAIR AND LIFT WALLS.

PW1 PLANTER BOX WALL - W1 REFER TYPICAL DETAIL.

PROVIDE 150 WIDE HOBS TO EXTERNAL WALLS AT BALCONIES

REFER DRAWING S31 FOR TYPICAL DETAILS

RW1 TO RW4
REFER SECTION 1 DRAWING S12 FOR RW1 DETAILS.
TYPICAL SECTION S12 FOR RW2 DETAILS.
REFER DRAWING S31 FOR RW3, RW4 DETAILS.

NOTE: HAND EXCAVATE FOOTINGS IN TREE PROTECTIONS ZONE. DO NOT DISTURB ROOTS AND NOTIFY ENGINEER OF LOCATION OF ROOTS SO FOOTINGS CAN BE ADJUSTED IF NEEDED.

CONCRETE COLUMN SCHEDULE

MARK	COLUMN SIZE W (mm)	COLUMN SIZE L (mm)	CONCRETE GRADE	COMMENTS
CC1	300	1000	40	REFER DETAILS S21
CC2	250	600	40	REFER DETAILS S31
CC3	150	1200	40	REFER DETAILS S31

BORED PIER WALL SCHEDULE

TYPE	PIER Ø	REINF 50 COVER TO LIGS	MAX SPACING (m)	L (m)	SC1 HOT DIPPED GALVANISED	INFILL WALL REINF		CAPPING BEAM		
						REINF	DOWELS	D (mm)	W (mm)	REINF
1	600	8N24 N12@300	2.4	2.4	-	RL918	N12@400	500	750	10N20 (4N20 T&B) 2N12@300
2	600	10N28 N12@300	2.4	2.8	-	RL1218 + N12@400	N12@300	500	750	10N20 (4N20 T&B) 2N12@300
3	750	12N28 N12@300	2.4	3.2	310UB32	RL1218	N12@400	500	900	12N20 (6N20 T&B) 2N12@300
4	750	12N32 N12@300	1.8	3.2	360UB50	RL1218	N12@400	500	900	12N20 (6N20 T&B) 2N12@300
5	600	8N20 N12@300	2.0	2.2	150UC37	PRECAST CONCRETE SLEEPER WALL DESIGNED FOR ULTIMATE PRESSURE 30kN/m²				
6	450	6N16 N12@300	2.0	1.6	150UC23	PRECAST CONCRETE SLEEPER WALL DESIGNED FOR ULTIMATE PRESSURE 20kN/m²				

POST - TENSIONING NOTES:

1. CONCRETE FLOOR IS TO BE POST-TENSIONED DESIGN & CONSTRUCT.
2. POST TENSIONING DOCUMENTATION FOR CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INCLUDING CERTIFICATION.
   SPECIFIC DESIGN CRITERIA
   (i) MAXIMUM TOTAL DEFLECTION FOR ALL MEMBERS.
   Lef/500 FOR SPANS
   Lef/250 FOR CANTILEVERS
   (ii) ADDITIONAL DEAD LOADS (WALLS, FINISHES, CEILING, SERVICES, ETC.) SHOULD BE CALCULATED WITH 1.5kPa BEING THE MINIMUM ADOPTED.
   (iii) THE CONTRACTOR SHALL MAKE THEIR OWN ASSESSMENT OF SLAB RESTRAINT WITH MINIMUM LEVEL OF P/A IN THE SECONDARY DIRECTION BEING 1.0 MPa FOR UNEXPOSED SLABS.
   (iv) REFER ARCHITECTS DRAWINGS FOR LOCATION OF PLANTER BOXES ETC.
3. THE FLOORS ARE TO BE DESIGNED FOR FOR THE MAX= IN THEIR CURRENT POSITION OR OVER THE TOTAL FLOOR AREA.
4. FOR THE ROOF SLAB AREA THE MINIMUM STRESSING (AFTER LOSSES) SHALL BE 2.0MPa
5. THE FLOORS ARE TO BE DESIGNED ASSUMING THEY ARE PINNED AT THE COLUMNS AND WALLS.
6. TENDERER'S TO MAKE ALLOWANCE FOR PERIMETER EDGE STRESSING WHERE PERMISSIBLE e.g BALCONIES, TERRACES.
7. EXPOSED SURFACES CAN BE SKIM COATED & RENDERED TO ARCHITECT'S DETAILS.
8. COMPUTATIONS AND DETAILS OF PROPOSED SYSTEM SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. INCLUDING DEAD AND LIVE ANCHORAGE DETAILS. ANY PRE STRESSING MATERIALS AND OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF AS3600. IN ADDITION A SUMMARY OF THE VERTICAL LOADS (MARKED ON A PLAN) OF THE WALLS AND COLUMNS IS TO BE PROVIDED AT FOOTING LEVEL AND TRANSFER(S) LEVEL.
9. INFORMATION GIVEN IS INDICATIVE AND FOR TENDER PURPOSES ONLY.
10. ALL BEAMS AND SLAB SIZES GIVEN ARE NOMINAL TO INDICATE STRUCTURAL LIMITATIONS AND SHALL BE REFINED BY POST-TENSION CONTRACTOR DURING FINAL DESIGN STAGE.
11. ALL DESIGN AND CONSTRUCTION PROPOSALS ARE TO BE CO-ORDINATED WITH AND REVIEWED BY THIS OFFICE DURING THE TENDER PERIOD AND DETAILS TO BE PROVIDED FOR APPROVAL PRIOR TO CONSTRUCTION.
12. REFER TO ARCHITECTURAL DRAWINGS FOR LIMITS AND PARAMETERS.
13. PLACEMENT OF PRE-STRESSING TENDONS IN SLABS AND BEAMS SHALL BE THOROUGHLY CO-ORDINATED WITH PLUMBING SUBCONTRACTOR TO AVOID ANY CLASHES OR OTHER INTERFERENCE WITH THE PLUMBING PIPEWORK. REFER HYDRAULIC DRAWINGS FOR THE PIPEWORKS DETAILS.
14. THE CONTRACTOR SHALL ALLOW FOR ADDITIONAL REINFORCEMENT REQUIRED FOR ANY CONSTRUCTION JOINTS, TEMPORARY PENETRATIONS REQUIRED IN SLABS DURING CONSTRUCTION, ETC.
15. REFER TO ARCHITECTURAL DRAWINGS FOR
16. DIMENSIONS AND FINISHED FLOOR LEVELS
17. CHAMFERS TO CONCRETE EDGES
18. LOCATIONS AND PROFILE OF UPSTANDS, ETC.
19. ALL SERVICES PENETRATIONS THROUGH FLOOR SLAB SHALL BE SLEEVED NOT CORED.
20. THICKNESS OF SLABS ARE NOT TO BE ALTERED WITHOUT THE APPROVAL OF FMG ENGINEERING.
21. PRELIMINARY DESIGN OF THE POST-TENSIONED SLAB/BEAMS HAS BEEN CARRIED OUT BY PLATINUM POST TENSIONING.
    (EMAIL: john.fairweather@platinum-pt.com.au)
22. P/T CONTRACTOR IS TO PROVIDE/SUBMIT 15.07 COMPLIANCE TO THE BUILDING SURVEYOR IN ACCORDANCE WITH NCC-BCA REGULATIONS TO CONFIRM THE SLABS HAVE BEEN CONSTRUCTED AS PER THE CERTIFIED DOCUMENTS.

PRELIMINARY ISSUE
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	INIT	APP
PD	BUILDING PERMIT SUBMISSION	28/8/17	SP	JH
PC	PRELIMINARY ISSUE	17/8/17	SP	JH
PB	PRELIMINARY ISSUE	28/7/17	SP	JH
PA	PRELIMINARY ISSUE	23/6/17	SP	JH

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SIGNATURE

CLIENT: C & K ARCHITECTURE
PROJECT TITLE: PROPOSED RESIDENTIAL DEVELOPMENT
SITE ADDRESS: 261 - 263 BALWYN ROAD, BALWYN NORTH, VIC 3104
DRAWING TITLE: GROUND FLOOR LAYOUT PLAN

DESIGNED	JH
DRAWN	SGP
CHECKED	JH
No OF SHEETS	
SCALE	AS SHOWN @A1
DATE STARTED	19/6/2017
SITE ID & JOB No	S34308-254280
DRAWING No	S30
REV	PD

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DRAWING S:\JOBS\S34\S34308 - BALWYN\03 STRUCTURAL DRAWINGS\CAD DRAWINGS\S34308-254280-S30.DWG (LAST SAVED ON 8/31/2017 11:03:35 AM) PLOTTED ON 8/31/2017 11:03:49 AM BY GREG YOUNG