

NOT DECLARED

**NOTES**

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 ALL CONCRETE THICKNESSES DENOTE MINIMUM STRUCTURAL THICKNESS.  
 ARCHITECTURAL HOBS/UPSTAND BALUSTRADES NOT INDICATED.  
 DOOR REBATES NOT SHOWN ON PLAN.

**LEGEND**

- DENOTES MINIMUM POST-TENSIONED SLAB THICKNESS, REFER PLANS FOR VARIATIONS IN DEPTH
- DENOTES MINIMUM POST-TENSIONED CONCRETE BEAM DEPTH
- DENOTES SLAB STEP, REFER TO ARCHITECTURAL DOCUMENTATION FOR SLAB SETOUT
- FOLD DENOTES FOLD IN SUSPENDED SLAB. UNLESS NOTED OTHERWISE SLAB FOLDS SHALL BE 1000 WIDE. FOLD DEPTHS MAY VARY. REFER TO PLAN FOR SLAB DEPTH AT FOLDS.
- OF DENOTES OVERFLOW
- HOB DENOTES HOB
- DENOTES SETDOWN VALUE FOR WET AREAS, MAINTAIN SLAB DEPTHS AT WET AREAS, PROVIDE 500mm WIDE SOFFIT STEP AT WET AREAS. TYPICAL.
- DENOTES PENETRATION/VOID IN SLAB, PROVIDE TRIMMER BARS
- DENOTES RISER ZONE
- TMJ DENOTES TEMPORARY MOVEMENT JOINT. DETAILS & LOCATIONS TBC
- PMJ DENOTES PERMANENT MOVEMENT JOINT. DETAILS TBC
- DENOTES NON-LOAD-BEARING WALL
- DENOTES LOAD-BEARING STRUCTURAL ELEMENT
- +/0 DENOTES STRUCTURAL MEMBER OVER
- /0 DENOTES STRUCTURAL MEMBER UNDER

VERTICAL STRUCTURAL ELEMENTS WITHOUT A SUFFIX (+/0 OR -/0) SHALL BE READ AS OVER & UNDER. REFER TO MEMBER SCHEDULE FOR ADDITIONAL INFORMATION.

**- BUILDING A - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
CONCRETE COLUMN		
CTAA	350 x 600	
CTAB	300 x 800	
CTAC	300 x 700	
CTAD	300 x 530	
CTAE	500 x 300	
CTAF	400 x 400	
CTAG	400 DIA	
CTAH	200 x 800	
CTAI	450 x 450	
CTAJ	500 DIA	
CTAK	200 x 400	HANGING (TENSION) COLUMNS BELOW
CTAL	200 x 400	
CTAM	350 x 450	

**- BUILDING A - WALL TYPE SCHEDULE -**

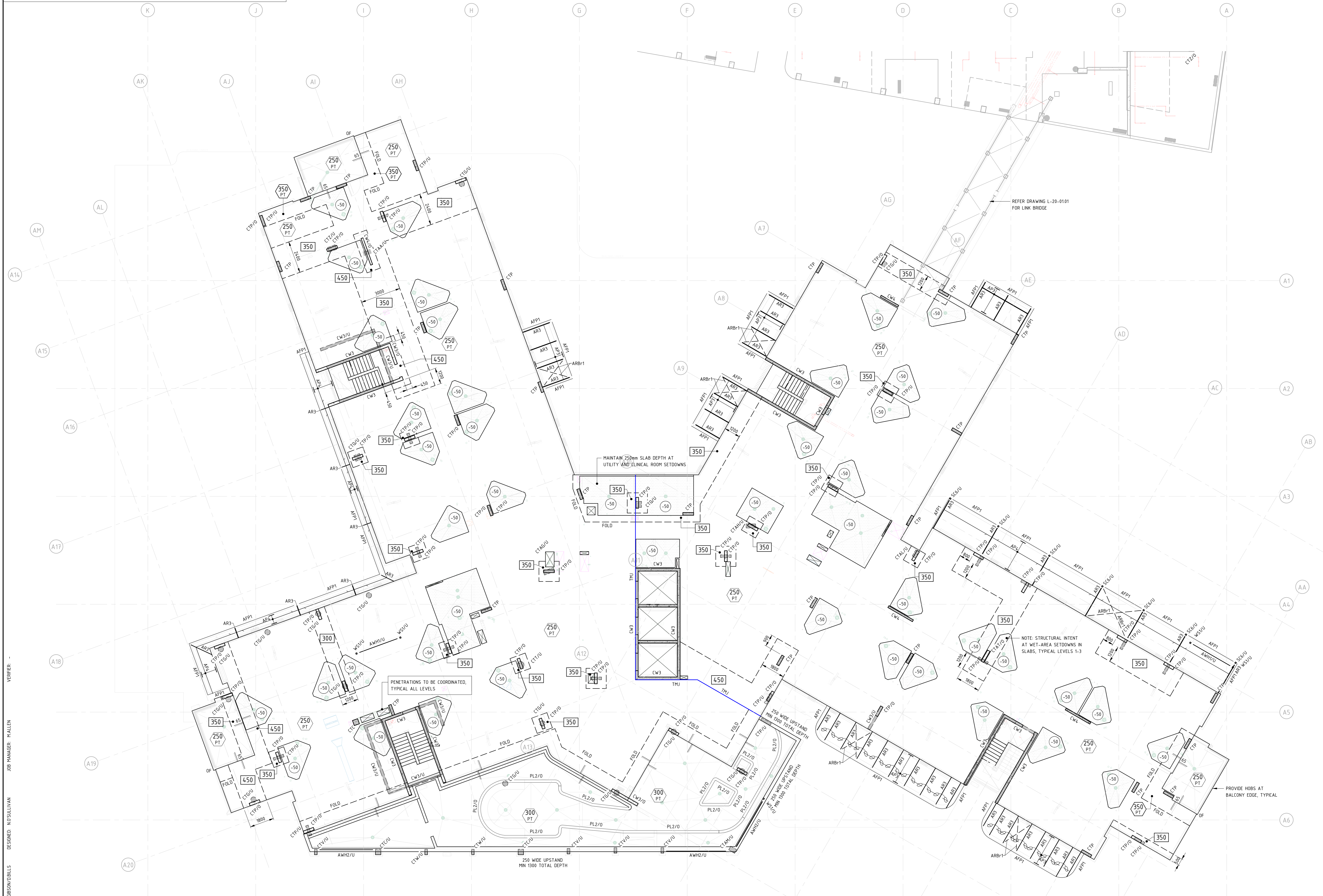
MARK	THICKNESS	COMMENTS
CONCRETE WALL		
CW3	200	
CW4	150	
PLANTER WALL		
PL2	190	CORE FILLED UNREINFORCED BLOCKWORK

**- BUILDING A - AWNING SCHEDULE -**

MARK	SIZE	COMMENTS
AWNING FASCIA PURLIN		
AFP1	FP30019	
AWNING PURLIN		
AP3	C100-12 AT 600 CTS	
AP4	Z100-12 AT 600 CTS	
AWNING RAFTER		
AR3	100 x 50 x 5.0 RHS	
ROOF BRACING		
ARB1	30 x 0.8mm STRAP BRACING	
STEEL COLUMN		
SC6	89 x 89 x 5.0 SHS	

**- BUILDING A - STEEL FRAMING SCHEDULE -**

MARK	SIZE	COMMENTS
WALL STIFFENER		
WS1	89 x 89 x 6.0 SHS	
WINDOW HEADER		
AWH1	100 x 100 x 6.0 SHS	
AWH2	125 x 125 x 5.0 SHS	



**BUILDING A - LEVEL 01 PLAN**

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
3	FOR INFORMATION	BG	KVA		22.11.24
4	FOR INFORMATION	BG	KVA		29.11.24
5	FOR COORDINATION	CC	MA		23.06.25
6	FOR COORDINATION	BG	DEP		12.09.25
7	FOR COORDINATION	CC	AE		14.10.25
8	FOR INFORMATION	CC	AE		11.12.25

DRAWN: B. GIBSON/DIBULLS DESIGNED: N. SULLIVAN MEMBER: M. KALLEN

CLIENT: **Uniting**

ARCHITECT: **plus**

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**NORTHROP**

Newcastle  
 Level 1, 215 Pacific Highway, Charlestown N.S.W. 2290  
 Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
 ABRN 61 104 433 100

PROJECT: 27 TIRAL STREET, CHARLESTOWN

DRAWING TITLE: STRUCTURAL DRAWING BUILDING A - LEVEL 01 PLAN

JOB NUMBER: NL200227  
 PROJECT AND DRAWING NUMBER: NCE-ST-A-20-01.01  
 DRAWING SHEET SIZE: A0  
 REVISION: 8

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**- BUILDING A - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
CONCRETE COLUMN		
CTAT	200 x 950	
CTB	200 x 1000	
CTC	400 x 400	
CTP	200 x 800	
CTS	200 x 1600	BLADE COLUMN

**- BUILDING A - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
CONCRETE WALL		
CW3	200	
CW4	150	



BUILDING A - LEVEL 02 PLAN

DRAWN: B. BRONKHORST, DESIGNED: N. SULLIVAN, JOB MANAGER: M. MULLEN, MEMBER: -

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
3	FOR INFORMATION	BG		KVA	22.11.24
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PLAN 1:1000 1:2000 1:5000 1:10000

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PROJECT: 27 TIRAL STREET, CHARLESTOWN

DRAWING TITLE: STRUCTURAL DRAWING BUILDING A - LEVEL 02 PLAN

JOB NUMBER: NL200227  
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 DRAWING SHEET SIZE: A0  
 REVISION: 8

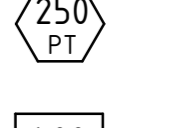
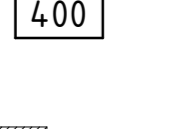

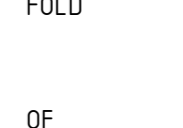
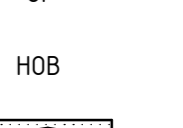
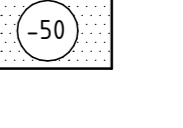
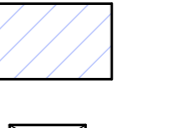
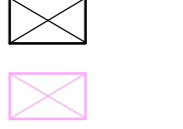
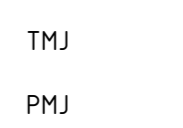
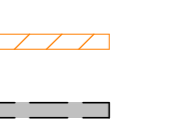
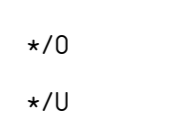
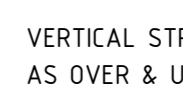
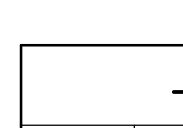
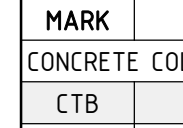
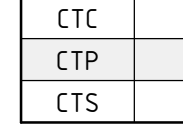
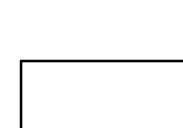
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CTB	200 x 1000	
CTC	400 x 400	
CTP	200 x 800	
CTS	200 x 1600	BLADE COLUMN

**- BUILDING A - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
CONCRETE WALL		
CW3	200	
CW4	150	



BUILDING A - LEVEL 03 PLAN

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3	FOR INFORMATION	BG		KVA	22.11.24
4	FOR INFORMATION	BG		KVA	29.11.24
5	FOR COORDINATION	CC		MA	23.06.25
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DRAWN: B. O'BRIEN/DBILLS DESIGNED: N. O'SULLIVAN JOB MANAGER: M. ALLEN MEMBER: -

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PROJECT  
 27 TIRAL STREET,  
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DRAWING TITLE  
**STRUCTURAL DRAWING  
 BUILDING A - LEVEL 03  
 PLAN**

JOB NUMBER  
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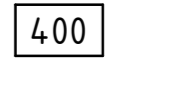

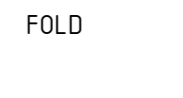
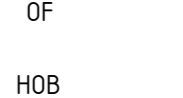
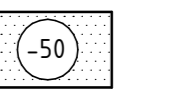
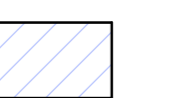



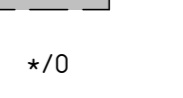
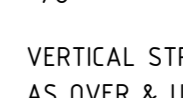
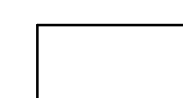
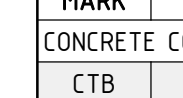
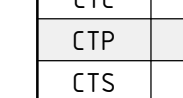
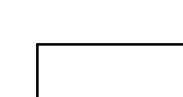
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**- BUILDING A - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
CONCRETE WALL		
CW3	200	
CW4	150	



**BUILDING A - ROOF PLAN**  
 ROOF SLAB TO BE DESIGNED AS WATERTIGHT SLAB, MINIMUM 20MPa PRESTRESS AND MESH TO ALL AREAS

DRAWN: B. O'BRIEN/DBILLS JOB MANAGER: M. ALLEN DESIGNED: N. SULLIVAN

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8	FOR INFORMATION	CC		AE	11.12.25

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PLAN 1:1000 1:2000 1:4000 1:8000

**NORTHROP** Newcastle  
 Level 1, 215 Pacific Highway, Charlestown N.S.W. 2290  
 Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
 ADR 61 104 433 100

PROJECT  
**27 TIRAL STREET, CHARLESTOWN**

DRAWING TITLE  
**STRUCTURAL DRAWING BUILDING A - ROOF PLAN**

JOB NUMBER  
**NL200227**  
 PROJECT AND DRAWING NUMBER  
**NCE-ST-A-20-04.01**  
 DRAWING SHEET SIZE  
 REVISION  
**8**

**NOT FOR CONSTRUCTION**



NOT DECLARED

**- BUILDING A - SHORING WALL SCHEDULE -**

MARK	SHEET PILE SECTION	SHEET PILE LENGTH	SHEET PILE MODULUS	SHEET PILE CAPACITY	SHOTCRETE	CAPPING BEAM	COMMENTS
<b>SHORING WALL</b>							
ASW1	BY OTHERS, 250mm WIDE	8m TOTAL	600cm <sup>2</sup> /m	110kNm/m WORKING MOMENT	THICKNESS VARIES, MIN 180mm	500 WIDE x 400 DEEP	REFER TO DETAILS FOR REINFORCEMENT DETAILS OF CAPPING BEAM & SHOTCRETE
ASW2	BY OTHERS, 250mm WIDE	8m TOTAL	600cm <sup>2</sup> /m	110kNm/m WORKING MOMENT	THICKNESS VARIES, MIN 180mm	500 WIDE x 400 DEEP	REFER TO DETAILS FOR REINFORCEMENT DETAILS OF CAPPING BEAM & SHOTCRETE

**NOTES**

FOR STRUCTURAL SPECIFICATION NOTES REFER TO DRAWINGS 0-00-00.01 TO 0-00-00.03

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CO-ORDINATE ALL SERVICE PENETRATION SIZES AND LOCATIONS WITH MECHANICAL, ELECTRICAL AND HYDRAULIC CONSULTANT'S DRAWINGS.

THE LAYOUT, SIZE, & AMOUNT OF PILES IS SHOWN INDICATIVE ONLY. THE PILING CONTRACTOR IS TO DESIGN AND DOCUMENT ALL PILES. SHOULD THE PILE LAYOUT DIFFER FROM THAT SHOWN, ADVISE NORTHROP CONSULTING ENGINEERS FOR DESIGN CONSULTATION. NOTE THAT CHANGES TO PILE LAYOUT MAY RESULT AN INCREASE TO THE SIZE OF PILE CAPS.

**- BUILDING A - FOUNDATION SCHEDULE -**

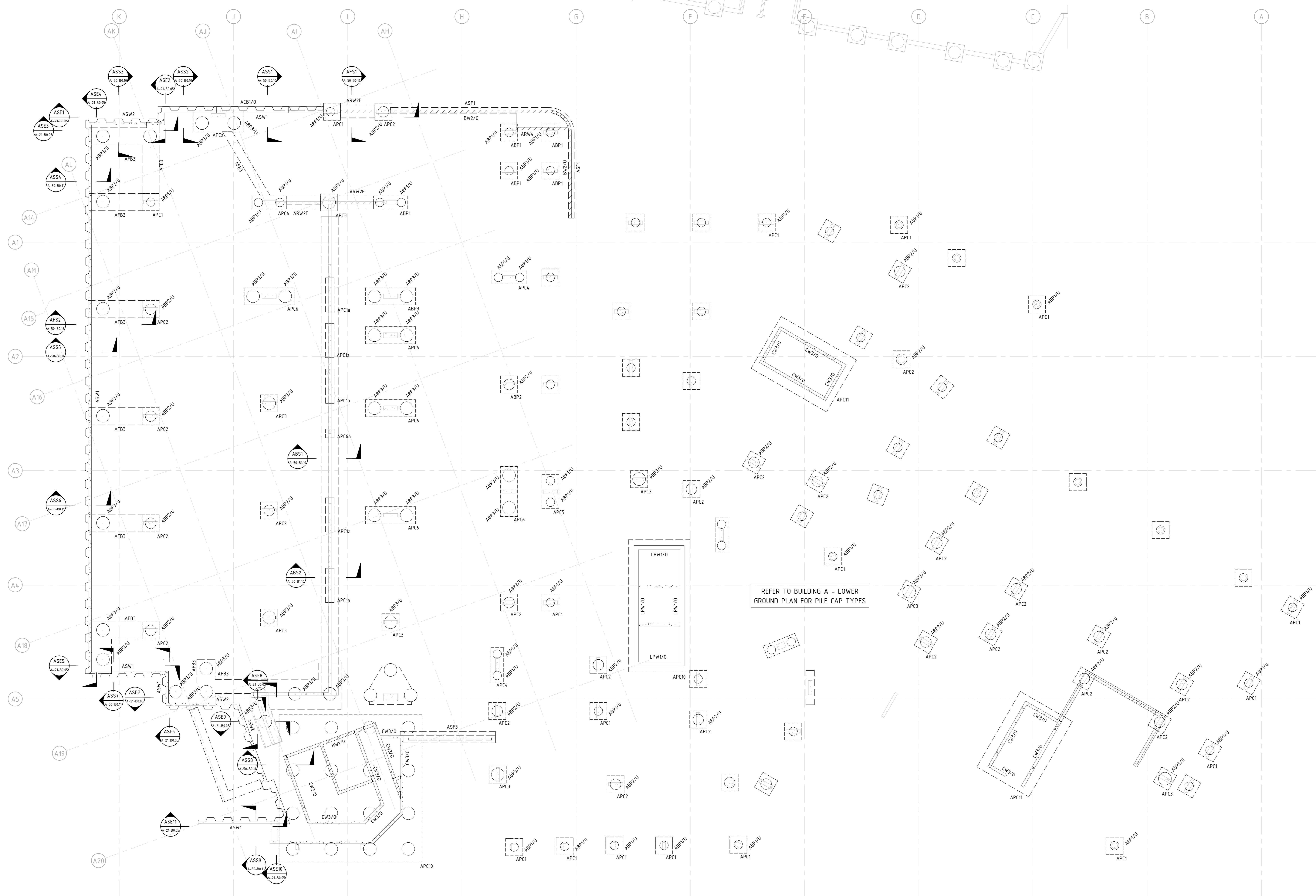
MARK	SIZE	COMMENTS
<b>BORED PILE</b>		
ABP1	600 DIA.	TO PILING CONTRACTORS DETAILS
ABP2	750 DIA.	TO PILING CONTRACTORS DETAILS
ABP3	900 DIA.	TO PILING CONTRACTORS DETAILS
<b>CAPPING BEAM</b>		
ACB1	450 WIDE x 400 DEEP	
<b>FOOTING BEAM</b>		
AFB3	REFER TO PILE CAP DETAILS	
<b>PILE CAP</b>		
APC1	1200 x 1200 x 1000 DEEP	
APC1a	2400 x 600 x 800 DEEP	
APC2	1200 x 1200 x 1000 DEEP	
APC3	1200 x 1200 x 1000 DEEP	
APC4	900 x 2400 x 1000 DEEP	
APC5	1200 x 2400 x 1000 DEEP	
APC6	1200 x 3500 x 1000 DEEP	
APC6a	600 x 600 x 600 DEEP	
APC7	1900 x 1900 x 1200 DEEP	
APC10	REFER TO PILE CAP DETAILS	
APC11	REFER TO PILE CAP DETAILS	
APC12	REFER TO PILE CAP DETAILS	
APC8	1450 x 3500 x 1000 DEEP	
<b>STRIP FOOTING</b>		
ARW2F	900 WIDE x 300 DEEP	RETAINING WALL FOOTING
ASF1	400 WIDE x 400 DEEP	
ASF2	ASF2	
ASF3	ASF3	

**- BUILDING A - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
<b>CONCRETE COLUMN</b>		
CTA	250 x 1000	
CTAD	300 x 850	
CTAG	300 x 800	
CTAH	400 x 350	
CTAQ	400 x 550	
CTAS	350 x 1000	
CTC	400 x 400	
CTD	250 x 800	
CTG	400 DIA.	
CTH	280 x 1000	
CTI	500 DIA.	
CTU	500 x 1000	
CTV	300 x 400	
CTY	500 x 500	

**- BUILDING A - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
<b>BLOCKWORK</b>		
BW1	190	LOAD BEARING, CORE FILLED REINFORCED BLOCKWORK
BW2	190	NON-LOAD BEARING, CORE FILLED REINFORCED BLOCKWORK
<b>CONCRETE WALL</b>		
CW3	200	
LPW1	300	
<b>RETAINING WALL</b>		
ARW1	200	CONCRETE WALL
ARW2	190	CORE FILLED REINFORCED BLOCKWORK
ARW4	190	CORE FILLED REINFORCED BLOCKWORK



**BUILDING A - FOUNDATION PLAN**

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
1	EARLY WORKS TENDER	DB		KVA	20.12.24
2	FOR COORDINATION	CC		MA	23.06.25
3	FOR COORDINATION	CC		AE	16.10.25
4	FOR INFORMATION	CC		AE	11.12.25

CLIENT	ARCHITECT	PROJECT
Uniting	plus	27 TIRAL STREET, CHARLESTOWN

DRAWINGS NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

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Newcastle  
 Level 1, 215 Pacific Highway, Charlestown N.S.W. 2290  
 Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
 ABN 61 106 433 100

DRAWING TITLE	DRAWING SHEET SIZE	REVISION
STRUCTURAL DRAWING BUILDING A - FOUNDATION PLAN	A0	4

**NOT FOR CONSTRUCTION**

NOT DECLARED

- BUILDING A - SHORING WALL SCHEDULE -						
MARK	SHEET PILE SECTION	SHEET PILE LENGTH	SHEET PILE MODULUS	SHEET PILE CAPACITY	SHOTCRETE	CAPPING BEAM
SHORING WALL						
ASW1	BY OTHERS, 250mm WIDE	8m TOTAL	600cm <sup>3</sup> /m	10kNm/m WORKING MOMENT	THICKNESS VARIES, MIN 180mm	500 WIDE x 400 DEEP
ASW2	BY OTHERS, 250mm WIDE	8m TOTAL	600cm <sup>3</sup> /m	10kNm/m WORKING MOMENT	THICKNESS VARIES, MIN 180mm	500 WIDE x 400 DEEP

NOTES

- FOR STRUCTURAL SPECIFICATION NOTES REFER TO DRAWINGS 0-00-00.01 TO 0-00-00.03
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE LATEST ARCHITECT'S DRAWINGS AND ANY RELEVANT CONSULTANT'S/CONTRACTOR'S DRAWINGS. IT IS THE BUILDERS RESPONSIBILITY TO ENSURE THE LATEST REVISION OF ALL DRAWINGS ARE BEING USED ON SITE.
- CO-ORDINATE ALL SERVICE PENETRATION SIZES AND LOCATIONS WITH MECHANICAL, ELECTRICAL AND HYDRAULIC CONSULTANT'S DRAWINGS.
- UNLESS NOTED OTHERWISE, MINIMUM STAIR THROAT THICKNESS SHALL BE 200mm.
- ALL CONCRETE THICKNESSES DENOTE MINIMUM STRUCTURAL THICKNESS.
- ARCHITECTURAL HOBBS/UPSTAND BALUSTRADES NOT INDICATED.
- DEEPS FOR THE FOUNDATION SHALL BE REINFORCED TOP & BOTTOM REINFORCEMENT TO BE CONFIRMED FOR TENDER ISSUE. CAST SLABS ON 0.2mm POLYTHENE MEMBRANE LAID OVER SUB BASE TO CIVIL ENGINEERS DETAILS. PROVIDE SAWN JOINTS AT MAX 5m SPACING & SLING DOWEL JOINTS BETWEEN POURS.
- THE BUILDER IS TO ENGAGE A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER TO CONFIRM THAT THE FOUNDING MATERIAL MEETS THE FOLLOWING REQUIREMENTS PRIOR TO PLACING OF REINFORCEMENT:
  - COMPACTION LEVEL = 98% STANDARD
  - BEARING CAPACITY OF FOUNDATION MATERIAL = 100 kPa
- REFER TO CIVIL DRAWINGS FOR ALL PAVEMENT LEVELS, FALLS, STORMWATER PIT LEVELS & REBATE LOCATIONS.
- PROVIDE TRIMMER BARS AT ALL RE ENTRANT CORNERS, SERVICE PENETRATIONS AND COLUMNS IN ACCORDANCE WITH SLAB TRIMMER DETAILS.
- WATERPROOFING TO SPECIALIST CONTRACTORS. CONTACT PRESSURE BETWEEN SLAB & PILE CAP/FROM COLUMN LOADING) TO BE CONSIDERED: 0.9MPa MAX.

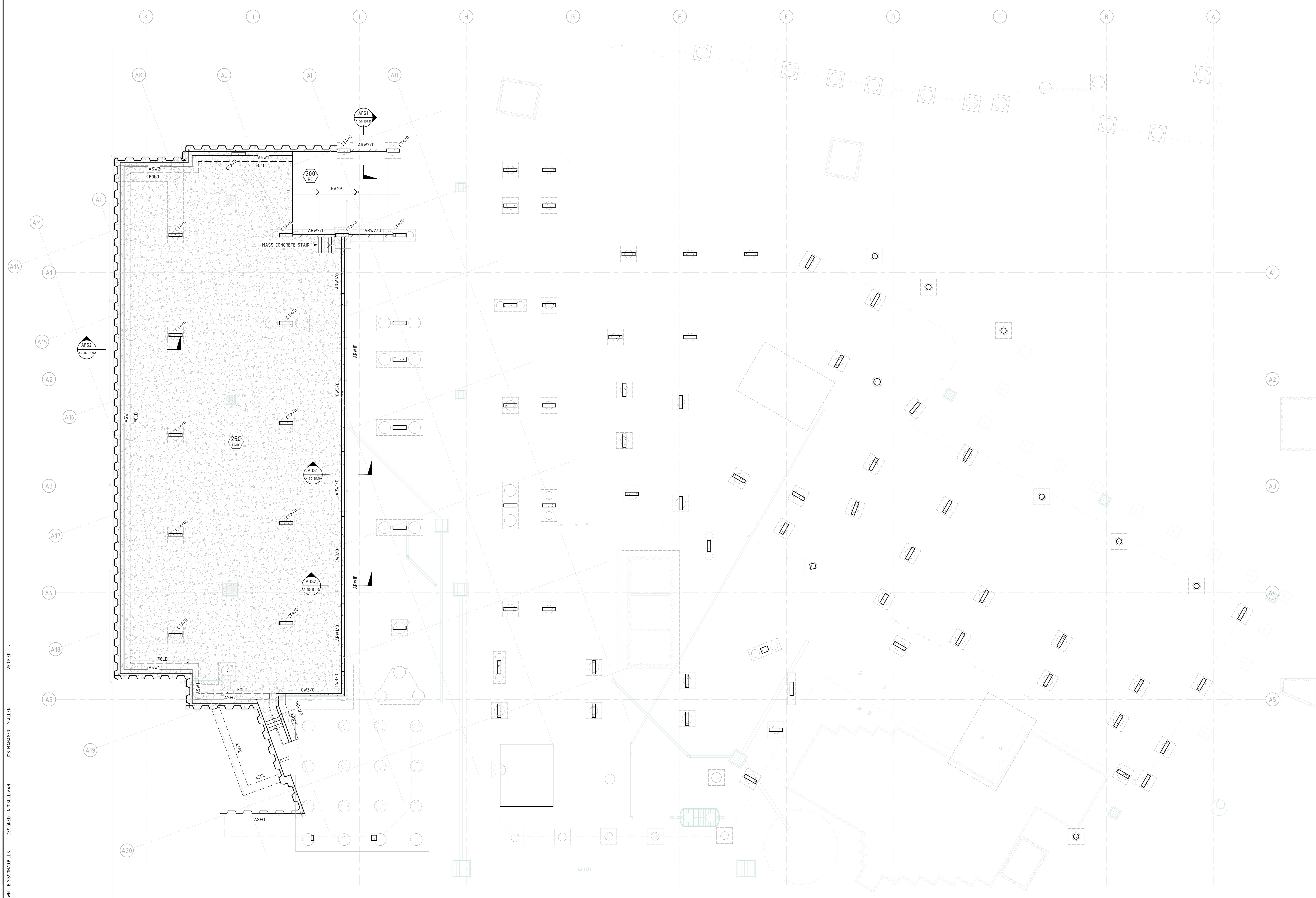
LEGEND

- DENOTES EXTENT OF 250mm THICK TANKED SLAB ON GROUND.
- DENOTES PENETRATION/VOID IN SLAB, PROVIDE TRIMMER BARS
- DENOTES SLAB STEP, REFER PLANS FOR VARIATIONS IN STEP HEIGHT
- DENOTES ISOLATION JOINT, REFER TO DETAILS FOR SPECIFICATION
- DENOTES SAWN JOINT, REFER TO DETAILS FOR SPECIFICATION
- DENOTES SLIDING DOWEL JOINT, REFER TO DETAILS FOR SPECIFICATION
- DENOTES DOWEL JOINT, REFER TO DETAILS FOR SPECIFICATION
- DENOTES DOWELED KEY JOINT, REFER TO DETAILS FOR SPECIFICATION
- DENOTES KEY JOINT, REFER TO DETAILS FOR SPECIFICATION
- DENOTES LOAD-BEARING STRUCTURAL ELEMENT
- +/0 DENOTES STRUCTURAL MEMBER OVER
- +/U DENOTES STRUCTURAL MEMBER UNDER
- STRUCTURAL MEMBERS WITHOUT A SUFFIX (+/0 OR +/U) SHALL BE READ AS OVER AND UNDER. REFER TO MEMBER SCHEDULE FOR ADDITIONAL INFORMATION.

- BUILDING A - COLUMN TYPE SCHEDULE -		
MARK	SIZE	COMMENTS
CONCRETE COLUMN		
CTA	250 x 1000	
CTAD	300 x 950	
CTAG	300 x 800	
CTAQ	400 x 550	
CTAS	350 x 1000	
CTC	400 x 400	
CTD	250 x 800	
CTG	400 DIA	
CTH	280 x 1000	
CTT	500 DIA	
CTV	200 x 400	

- BUILDING A - WALL TYPE SCHEDULE -		
MARK	THICKNESS	COMMENTS
BLOCKWORK		
NLB	190	NON-LOADBEARING BLOCKWORK
CONCRETE WALL		
CW3	200	
RETAINING WALL		
ARW1	200	CONCRETE WALL
ARW2	190	CORE FILLED REINFORCED BLOCKWORK

- BUILDING A - BASEMENT SCHEDULE -		
MARK	SIZE	COMMENTS
STRIP FOOTING		
ARWF	1200 WIDE x 300 DEEP	RETAINING WALL FOOTING



BUILDING A - BASEMENT PLAN

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
1	FOR INFORMATION	BG		KVA	29.11.24
5	EARLY WORKS TENDER	DB		KVA	20.12.24
6	FOR COORDINATION	CC		MA	23.06.25
7	FOR COORDINATION	BG		DEP	12.09.25
8	FOR COORDINATION	CC		AE	14.10.25
9	FOR INFORMATION	CC		AE	11.12.25

DRAWN: B. OBRONOVIC/BBILLS JOB MANAGER: M. MULLEN DESIGNED: N. SULLIVAN

CLIENT: **Uniting**

ARCHITECT: **plus**

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Level 1, 215 Pacific Highway, Charlestown N.S.W. 2290  
Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
ABN: 61 104 433 100

PROJECT: 27 TIRAL STREET, CHARLESTOWN

DRAWING TITLE: STRUCTURAL DRAWING BUILDING A - BASEMENT PLAN

JOB NUMBER: NL200227

PROJECT AND DRAWING NUMBER: NCE-ST-A-20-B1.01

DRAWING SHEET SIZE: A0

REVISION: 9

NOT FOR CONSTRUCTION

NOT DECLARED

**NOTES**

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UNLESS NOTED OTHERWISE, MINIMUM STAIR THROAT THICKNESS SHALL BE 200mm.

ALL CONCRETE THICKNESSES DENOTE MINIMUM STRUCTURAL THICKNESS.

ARCHITECTURAL HOBS/UPSTAND BALUSTRADES NOT INDICATED.

DOOR REBATES NOT SHOWN ON PLAN.

UNLESS NOTED OTHERWISE, WAFFLE POD SLABS SHALL BE 100mm THICK REINFORCED WITH S302 MESH TOP. CAST GLASS ON 300mm DEEP WAFFLE PODS PLACED ON 0.2mm POLYTHENE MEMBRANE ON A NOMINAL LEVELLING LAYER OF SAND.

THE BUILDER IS TO ENGAGE A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER TO CONFIRM THAT THE FOUNDING MATERIAL MEETS THE FOLLOWING REQUIREMENTS PRIOR TO PLACING OF REINFORCEMENT.

- COMPACTION LEVEL = 98% STANDARD
- BEARING CAPACITY OF FOUNDATION MATERIAL = 100 kPa

REFER TO CIVIL DRAWINGS FOR ALL PAVEMENT LEVELS, FALLS, STORMWATER PIT LEVELS & REBATE LOCATIONS.

PROVIDE TRIMMER BARS AT ALL RE-ENTRANT CORNERS, SERVICE PENETRATIONS AND COLUMNS IN ACCORDANCE WITH SLAB TRIMMER DETAILS.

**LEGEND**

- DENOTES DEPTH OF WAFFLE SLAB AND DEPTH OF WAFFLE PODS. ENSURE TO PROVIDE RBBS IN BOTH DIRECTIONS AT ALL RE-ENTRANT CORNERS & ENDS OF BEAMS
  - DENOTES EXTENT OF 250mm THICK INFILL SLAB ON GROUND
  - DENOTES SETDOWN VALUE FOR WET AREAS
  - DENOTES PENETRATION/VOID IN SLAB, PROVIDE TRIMMER BARS
  - DENOTES RISER ZONE
  - DENOTES FLOOR BOX IN SLAB, PROVIDE TRIMMER BARS
  - DENOTES SLAB STEP, REFER PLANS FOR VARIATIONS IN STEP HEIGHT
  - DENOTES ISOLATION JOINT, REFER TO DETAILS FOR SPECIFICATION
  - DENOTES SAWN JOINT, REFER TO DETAILS FOR SPECIFICATION
  - DENOTES SLIDING DOWEL JOINT, REFER TO DETAILS FOR SPECIFICATION
  - DENOTES DOWEL JOINT, REFER TO DETAILS FOR SPECIFICATION
  - DENOTES DOWELED KEY JOINT, REFER TO DETAILS FOR SPECIFICATION
  - DENOTES KEY JOINT, REFER TO DETAILS FOR SPECIFICATION
  - DENOTES LOAD-BEARING STRUCTURAL ELEMENT
  - DENOTES STRUCTURAL MEMBER OVER
  - DENOTES STRUCTURAL MEMBER UNDER
- STRUCTURAL MEMBERS WITHOUT A SUFFIX (+/O OR +/-) SHALL BE READ AS OVER AND UNDER. REFER TO MEMBER SCHEDULE FOR ADDITIONAL INFORMATION.
- DENOTES NON-LOAD BEARING BLOCKWALLS. PROVIDE 300 WIDE x 400 DEEP FOOTING AT WALLS. REFER A-50-LG.10 FOR DETAIL.

**- BUILDING A - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
CONCRETE COLUMN		
CTA	250 x 1000	
CTAD	300 x 850	
CTAG	300 x 800	
CTAM	500 x 300	
CTAQ	400 x 550	
CTAS	350 x 1000	
CTC	400 x 400	
CTD	250 x 900	
CTE	400 DIA	
CTH	380 x 1000	
CTI	500 DIA	
CTU	500 x 1000	
CTV	200 x 400	
CTY	500 x 500	
STEEL COLUMN		
SCS	200 x 100 x 5.0 RHS	

**- BUILDING A - WALL TYPE SCHEDULE -**

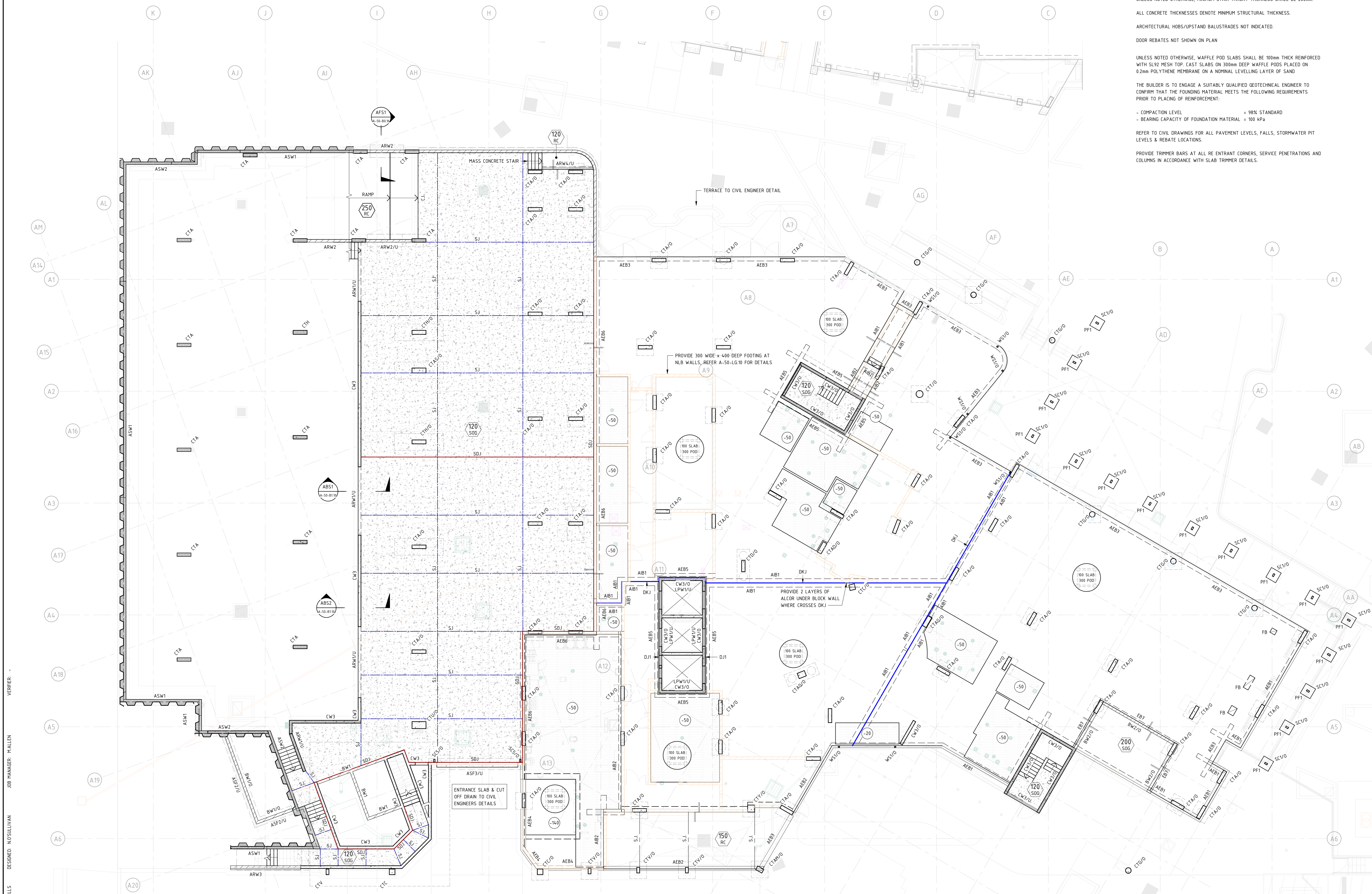
MARK	THICKNESS	COMMENTS
BLOCKWORK		
BW1	190	LOAD BEARING, CORE FILLED REINFORCED BLOCKWORK
BW2	190	NON-LOAD BEARING, CORE FILLED REINFORCED BLOCKWORK
NLB	190	NON-LOADBEARING BLOCKWORK
CONCRETE WALL		
CW3	200	
CW4	150	
LPW1	300	
RETAINING WALL		
ARW1	200	CONCRETE WALL
ARW2	190	CORE FILLED REINFORCED BLOCKWORK
ARW3	190/290	CORE FILLED REINFORCED BLOCKWORK
ARW4	190	CORE FILLED REINFORCED BLOCKWORK

**- BUILDING A - LOWER GROUND FLOOR SCHEDULE -**

MARK	SIZE	COMMENTS
CONCRETE BEAM		
AEB1	350W x 400D	EDGE BEAM
AEB2	300W x 400D	EDGE BEAM
AEB3	300W x 400D	EDGE BEAM
AEB4	350W x 700D	EDGE BEAM
AEB5	300W x 400D	EDGE BEAM
AEB6	400W x 400D	EDGE BEAM
ABE1	300W x 400D	INTERNAL BEAM
ABE2	400W x 700D	INTERNAL BEAM
ABE7	300W x 700D	EDGE BEAM
PAD FOOTING		
PF1	800 x 800 x 400 DEEP	
PILE CAP		
APC1b	2400 x 600 x 800 DEEP	

**- BUILDING A - STEEL FRAMING SCHEDULE -**

MARK	SIZE	COMMENTS
WALL STIFFENER		
WS1	89 x 89 x 6.0 SHS	



BUILDING A - LOWER GROUND PLAN

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
1	FOR INFORMATION	BG		KVA	29.11.24
2	EARLY WORKS TENDER	DB		KVA	20.12.24
3	FOR COORDINATION	CC		MA	23.06.25
4	FOR COORDINATION	BG		DEP	12.09.25
5	FOR COORDINATION	CC		AE	14.10.25
6	FOR INFORMATION	CC		AE	11.12.25

DRAWN: B. GIBSON/DBILLS DESIGNED: N. SULLIVAN JOB MANAGER: M. ALLEN MEMBER: -

CLIENT: **Uniting**

ARCHITECT: **plus**

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Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
ABN: 61 106 433 100

PROJECT: 27 TIRAL STREET, CHARLESTOWN

DRAWING TITLE: STRUCTURAL DRAWING BUILDING A - LOWER GROUND PLAN

JOB NUMBER: NL200227

PROJECT AND DRAWING NUMBER: NCE-ST-A-20-LG.01

DRAWING SHEET SIZE: A0

REVISION: 9

NOT FOR CONSTRUCTION

NOT DECLARED

**- BUILDING A - SHORING WALL SCHEDULE -**

MARK	SHEET PILE SECTION	SHEET PILE LENGTH	SHEET PILE MODULUS	SHEET PILE CAPACITY	SHOTCRETE	CAPPING BEAM	COMMENTS
ASW1	BY OTHERS, 250mm WIDE	8m TOTAL	600cm <sup>2</sup> /m	110kNm/m WORKING MOMENT	THICKNESS VARIES, MIN 180mm	500 WIDE x 400 DEEP	REFER TO DETAILS FOR REINFORCEMENT DETAILS OF CAPPING BEAM & SHOTCRETE
ASW2	BY OTHERS, 250mm WIDE	8m TOTAL	600cm <sup>2</sup> /m	110kNm/m WORKING MOMENT	THICKNESS VARIES, MIN 180mm	500 WIDE x 400 DEEP	REFER TO DETAILS FOR REINFORCEMENT DETAILS OF CAPPING BEAM & SHOTCRETE

**NOTES**

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ALL CONCRETE THICKNESSES DENOTE MINIMUM STRUCTURAL THICKNESS.

ARCHITECTURAL HOB'S/UPSTAND BALUSTRADES NOT INDICATED.

DOOR REBATES NOT SHOWN ON PLAN

**LEGEND**

- DENOTES MINIMUM POST-TENSIONED SLAB THICKNESS, REFER PLANS FOR VARIATIONS IN DEPTH
- DENOTES MINIMUM POST-TENSIONED CONCRETE BEAM DEPTH
- DENOTES SLAB SET OUT, REFER TO ARCHITECTURAL DOCUMENTATION FOR SLAB SET OUT
- FOLD DENOTES FOLD IN SUSPENDED SLAB, UNLESS NOTED OTHERWISE SLAB FOLDS SHALL BE 1000 WIDE. FOLD DEPTHS MAY VARY, REFER TO PLAN FOR SLAB DEPTH AT FOLDS.
- DENOTES OVERFLOW
- DENOTES HOB
- DENOTES SETDOWN VALUE FOR WET AREAS, MAINTAIN SLAB DEPTHS AT WET AREAS, PROVIDE 500mm WIDE SOFFIT STEP AT WET AREAS. TYPICAL.
- DENOTES PENETRATION/VOID IN SLAB, PROVIDE TRIMMER BARS
- DENOTES RISER ZONE
- DENOTES TEMPORARY MOVEMENT JOINT. DETAILS & LOCATIONS TBC
- DENOTES PERMANENT MOVEMENT JOINT. DETAILS TBC
- DENOTES NON LOAD-BEARING WALL
- DENOTES LOAD-BEARING STRUCTURAL ELEMENT
- DENOTES STRUCTURAL MEMBER OVER
- DENOTES STRUCTURAL MEMBER UNDER

VERTICAL STRUCTURAL ELEMENTS WITHOUT A SUFFIX (+/0 OR +/U) SHALL BE READ AS OVER & UNDER. REFER TO MEMBER SCHEDULE FOR ADDITIONAL INFORMATION.

**- BUILDING A - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
<b>CONCRETE COLUMN</b>		
CTA	250 x 1000	
CTAA	350 x 600	
CTAD	300 x 850	
CTAG	300 x 800	
CTAH	300 x 700	
CTAL	300 x 530	
CTAM	500 x 300	
CTAN	400 x 550	
CTAS	350 x 1000	
CTC	400 x 400	
CTD	250 x 800	
CTG	400 DIA	
CTH	280 x 1000	
CTP	200 x 800	
CTQ	450 x 450	
CTT	500 DIA	
CTU	500 x 1000	
CTV	200 x 400	
CTW	200 x 400	HANGING (TENSION) COLUMNS BELOW
CTY	500 x 500	
CTZ	350 x 450	

**- BUILDING A - WALL TYPE SCHEDULE -**

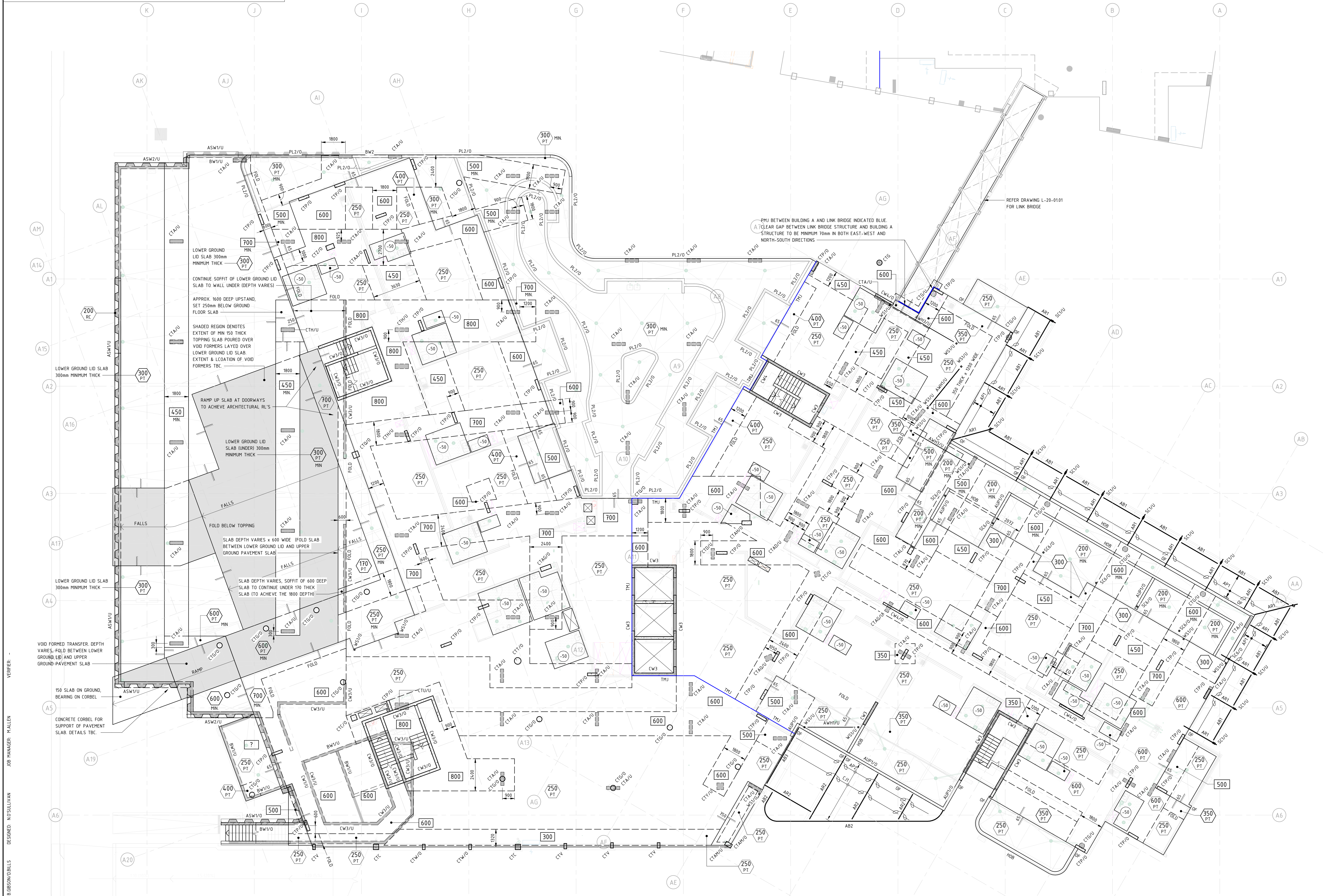
MARK	THICKNESS	COMMENTS
<b>BLOCKWORK</b>		
BW1	190	LOAD BEARING, CORE FILLED REINFORCED BLOCKWORK
BW2	190	NON-LOAD BEARING, CORE FILLED REINFORCED BLOCKWORK
<b>CONCRETE WALL</b>		
AUP1	200	UPSTAND WALL
CW1	250	
CW3	200	
CW4	150	
<b>PLANTER WALL</b>		
PLZ	190	CORE FILLED UNREINFORCED BLOCKWORK
<b>RETAINING WALL</b>		
ARW1	200	CONCRETE WALL
ARW3	190/290	CORE FILLED REINFORCED BLOCKWORK

**- BUILDING A - STEEL FRAMING SCHEDULE -**

MARK	SIZE	COMMENTS
<b>WALL STIFFENER</b>		
WS1	89 x 89 x 6.0 SHS	
<b>WINDOW HEADER</b>		
AWH1	100 x 100 x 6.0 SHS	
AWH3	150 x 150 x 5.0 SHS	

**- BUILDING A - AWNING SCHEDULE -**

MARK	SIZE	COMMENTS
<b>AWNING BEAM</b>		
AB1	150 PFC	
AB2	300 PFC	
AB3	90 x 90 x 6 EA	RAKING ANGLE
<b>AWNING PURLIN</b>		
AP1	CT505 AT 600 CTS	1 ROW OF BRIDGING
AP2	CT510 AT 1200 CTS	1 ROW OF BRIDGING
<b>AWNING RAFTER</b>		
AR1	150 UB 18.0	
AR2	310 LB 4.0.4	
<b>CEILING JOIST</b>		
CJ1	EC1010 AT 600 CTS	1 ROW OF BRIDGING
<b>STEEL COLUMN</b>		
SC1	200 x 100 x 4.0 RHS	
SC6	89 x 89 x 5.0 SHS	



**BUILDING A - UPPER GROUND PLAN**

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
3	FOR INFORMATION	BG		KVA	22.11.24
4	FOR INFORMATION	BG		KVA	29.11.24
5	FOR COORDINATION	CC		MA	23.06.25
6	FOR COORDINATION	BG		DEP	12.09.25
7	FOR COORDINATION	CC		AE	14.10.25
8	FOR INFORMATION	CC		AE	11.12.25

CLIENT: **Uniting**

ARCHITECT: **plus**

DESIGNED: NORSULLIVAN

DRAWN: B. GIBSON/DBILLS

JOB MANAGER: MULLEN

VERIFIER: -

ALL SETOUT TO ARCHITECT'S DRAWINGS. OPENINGS TO BE VERIFIED WITH ARCHITECT AND BUILDER BEFORE COMMENCING SHOP DRAWINGS OR SITE WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSMITTED ELECTRONICALLY.

PLAN 1: 1000 2000 3000 4000 5000

**NORTHROP**

Newcastle  
Level 1, 215 Pacific Highway, Charlestown N.S.W. 2290  
Ph: (02) 4943 1772 Email: newcastle@northrop.com.au  
ABN: 61 104 433 100

PROJECT: **27 TIRAL STREET, CHARLESTOWN**

DRAWING TITLE: **STRUCTURAL DRAWING BUILDING A - UPPER GROUND PLAN**

**NOT FOR CONSTRUCTION**

DRAWING NUMBER: **NL200227**

PROJECT AND DRAWING NUMBER: **NCE-ST-A-20-UG.01**

DRAWING SHEET SIZE: **A0**

REVISION: **8**

NOT DECLARED

**NOTES**

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COORDINATE ALL SERVICE PENETRATION SIZES AND LOCATIONS WITH MECHANICAL, ELECTRICAL AND HYDRAULIC CONSULTANT'S DRAWINGS.

UNLESS NOTED OTHERWISE, MINIMUM STAIR THROAT THICKNESS SHALL BE 200mm.

ALL CONCRETE THICKNESSES DENOTE MINIMUM STRUCTURAL THICKNESS.

ARCHITECTURAL HOBS/UPSTAND BALUSTRADES NOT INDICATED.

DOOR REBATES NOT SHOWN ON PLAN

**LEGEND**

- DENOTES MINIMUM POST-TENSIONED SLAB THICKNESS. REFER PLANS FOR VARIATIONS IN DEPTH
- DENOTES MINIMUM POST-TENSIONED CONCRETE BEAM DEPTH
- DENOTES WAFFLE POD TOPPING SLAB OVER MAIN STRUCTURAL POST-TENSIONED SLAB. WAFFLE RIBS INDICATE EXTENT OF SLAB OVER.
- DENOTES SLAB STEP. REFER TO ARCHITECTURAL DOCUMENTATION FOR SLAB SETOUT
- DENOTES FOLD IN SUSPENDED SLAB. UNLESS NOTED OTHERWISE SLAB FOLDS SHALL BE 1000 WIDE. FOLD DEPTHS MAY VARY. REFER TO PLAN FOR SLAB DEPTH AT FOLDS.
- DENOTES SETDOWN VALUE FOR WET AREAS. MAINTAIN SLAB DEPTHS AT WET AREAS. PROVIDE 500mm WIDE SOFFIT STEP AT WET AREAS. TYPICAL.
- DENOTES EXTENT OF 650 MIN. PT SLAB UNDER WAFFLE SLAB
- DENOTES EXTENT OF 450 MIN. PT SLAB UNDER WAFFLE SLAB
- DENOTES EXTENT OF 250 MIN. PT SLAB UNDER WAFFLE SLAB
- DENOTES PENETRATION/VOID IN SLAB. PROVIDE TRIMMER BARS
- DENOTES TEMPORARY MOVEMENT JOINT. DETAILS & LOCATIONS TBC
- DENOTES PERMANENT MOVEMENT JOINT. DETAILS TBC
- DENOTES LOAD-BEARING STRUCTURAL ELEMENT
- DENOTES STRUCTURAL MEMBER OVER
- DENOTES STRUCTURAL MEMBER UNDER

VERTICAL STRUCTURAL ELEMENTS WITHOUT A SUFFIX (+/0 OR +/-U) SHALL BE READ AS OVER & UNDER. REFER TO MEMBER SCHEDULE FOR ADDITIONAL INFORMATION.

**- BUILDING B - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
CONCRETE COLUMN		
CTA	250 x 1000	
CTAC	350 x 900	
CTAD	300 x 850	
CTAF	350 x 350	
CTAG	300 x 800	
CTAN	600 DIA	
CTC	400 x 400	
CTD	250 x 800	
CTE	300 x 600	
CTH	280 x 1000	
CTJ	450 DIA	
CTM	250 x 1200	
CTO	450 x 450	
CTX	600 x 600	
CTZ	350 x 450	

NON-LOAD-BEARING CONCRETE COLUMN

**- BUILDING B - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
CONCRETE WALL		
BU1P	200	UPSTAND WALL
CW1	250	
CW2	300	
CW6	350	
CW7	280	
PLANTER WALL		
PL2	190	CORE FILLED UNREINFORCED BLOCKWORK
POOL WALL		
PW1	300	

**- POOL FRAMING SCHEDULE -**

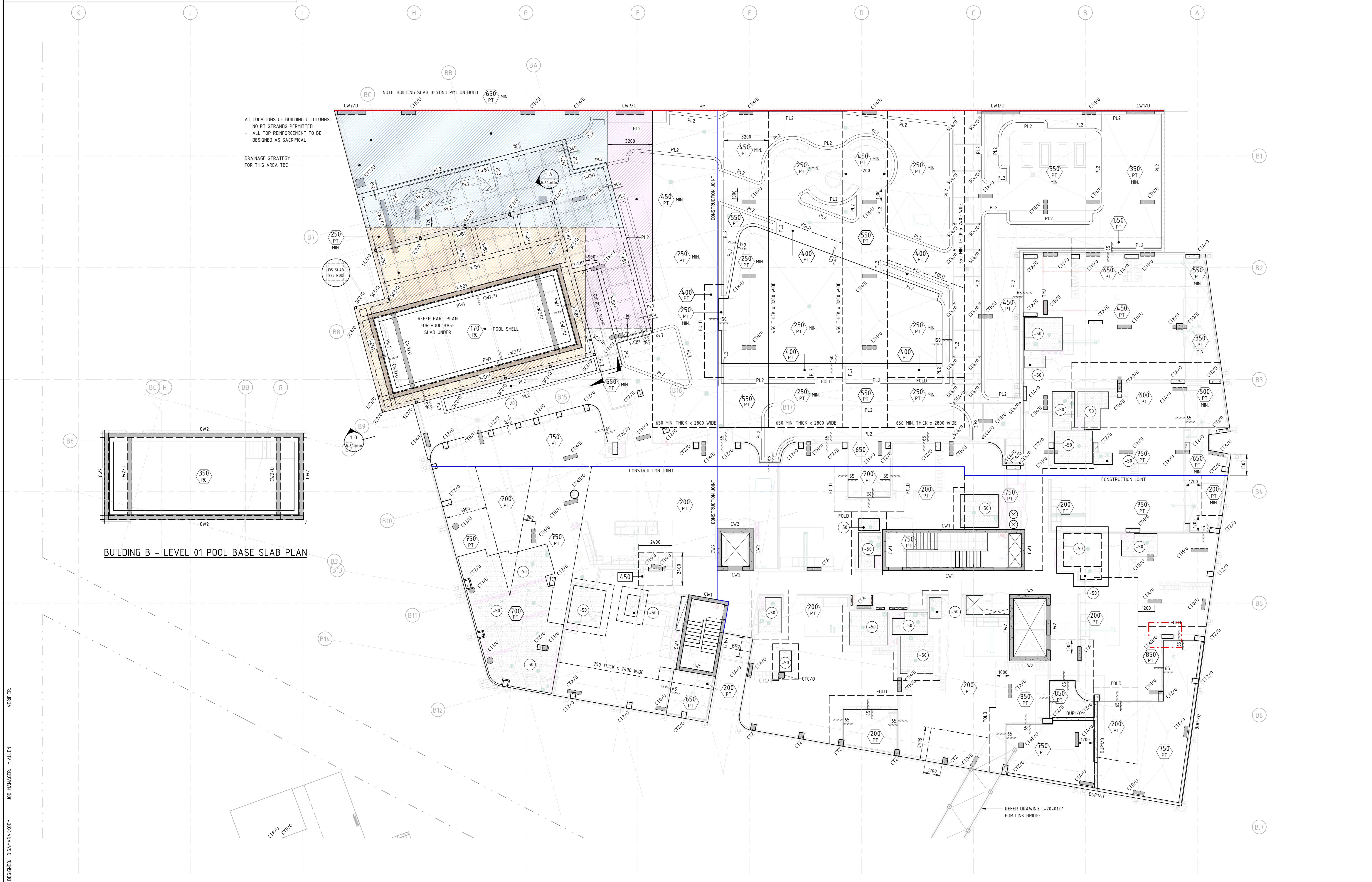
MARK	SIZE	COMMENTS
STEEL COLUMN		
SC2	150 x 150 x 6.0 SHS	
SC3	89 x 89 x 6.0 SHS	

**- BUILDING B - LEVEL 1 SCHEDULE -**

MARK	SIZE	COMMENTS
EDGE BEAM		
1-EB1	300 WIDE x 360 DEEP	EDGE BEAM OF WAFFLE POD SLAB
INTERNAL BEAM		
1-IB1	300 WIDE x 360 DEEP	INTERNAL BEAM OF WAFFLE POD SLAB

**- BUILDING B - AWNING SCHEDULE -**

MARK	SIZE	COMMENTS
AWNING PURLIN		
BP2	EC10010 AT 600 CTS	1 ROW OF BRIDGING
STEEL COLUMN		
SC4	88.9 x 5.5 CHS	



**BUILDING B - LEVEL 01 PLAN**

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
3	FOR INFORMATION	DB	DS		16.07.24
4	FOR INFORMATION	BG	KVA		22.11.24
5	FOR INFORMATION	BG	KVA		29.11.24
6	FOR COORDINATION	CC	MA		23.06.25
7	FOR COORDINATION	CC	AE		14.10.25
8	FOR INFORMATION	CC	AE		11.12.25

DRAWN: B. GIBSON/DBILLS DESIGNED: D. SAMPARAKIDY JOB MANAGER: M. ALLEN VERIFIED:

CLIENT: **Uniting**

ARCHITECT: **plus**

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Newcastle  
Level 1, 215 Pacific Highway, Charlestown N.S.W. 2290  
Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
A/NZ 01 104 433 100

PROJECT: 27 TIRAL STREET, CHARLESTOWN

DRAWING TITLE	JOB NUMBER
STRUCTURAL DRAWING BUILDING B - LEVEL 01 PLAN	NL200227
	PROJECT AND DRAWING NUMBER
	NCE-ST-B-20-01-01
	DRAWING SHEET SIZE
	REVISION
	A0
	8

**NOT FOR CONSTRUCTION**

NOT DECLARED

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 ALL CONCRETE THICKNESSES DENOTE MINIMUM STRUCTURAL THICKNESS.  
 ARCHITECTURAL HOBS/UPSTAND BALUSTRADES NOT INDICATED.  
 DOOR REBATES NOT SHOWN ON PLAN.

**LEGEND**

-  DENOTES MINIMUM POST-TENSIONED SLAB THICKNESS, REFER PLANS FOR VARIATIONS IN DEPTH
  -  DENOTES MINIMUM POST-TENSIONED CONCRETE BEAM DEPTH
  -  DENOTES SLAB STEP, REFER TO ARCHITECTURAL DOCUMENTATION FOR SLAB SETOUT
  -  DENOTES FOLD IN SUSPENDED SLAB, UNLESS NOTED OTHERWISE SLAB FOLDS SHALL BE 1000 WIDE, FOLD DEPTHS MAY VARY, REFER TO PLAN FOR SLAB DEPTH AT FOLDS.
  -  DENOTES OVERFLOW
  -  DENOTES HOB
  -  DENOTES SETDOWN VALUE FOR WET AREAS, MAINTAIN SLAB DEPTHS AT WET AREAS, PROVIDE 500mm WIDE SOFFIT STEP AT WET AREAS, TYPICAL.
  -  DENOTES PENETRATION/VOID IN SLAB, PROVIDE TRIMMER BARS
  -  DENOTES RISER ZONE
  -  DENOTES TEMPORARY MOVEMENT JOINT, DETAILS & LOCATIONS TBC
  -  DENOTES PERMANENT MOVEMENT JOINT, DETAILS TBC
  -  DENOTES NON LOAD-BEARING WALL
  -  DENOTES LOAD-BEARING STRUCTURAL ELEMENT
  -  DENOTES STRUCTURAL MEMBER OVER
  -  DENOTES STRUCTURAL MEMBER UNDER
- VERTICAL STRUCTURAL ELEMENTS WITHOUT A SUFFIX (+/0 OR +/-U) SHALL BE READ AS OVER & UNDER, REFER TO MEMBER SCHEDULE FOR ADDITIONAL INFORMATION.

**- BUILDING B - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
CONCRETE COLUMN		
CTA	250 x 1000	
CTAC	350 x 900	
CTAD	300 x 850	
CTAG	300 x 850	
CTAN	500 DIA	
CTC	400 x 400	
CTD	250 x 800	
CTE	300 x 600	
CTH	280 x 1000	
CTO	450 x 450	
CTZ	350 x 450	
NON LOAD-BEARING CONCRETE COLUMN		
CTAB	350 x 350	

**- BUILDING B - WALL TYPE SCHEDULE -**

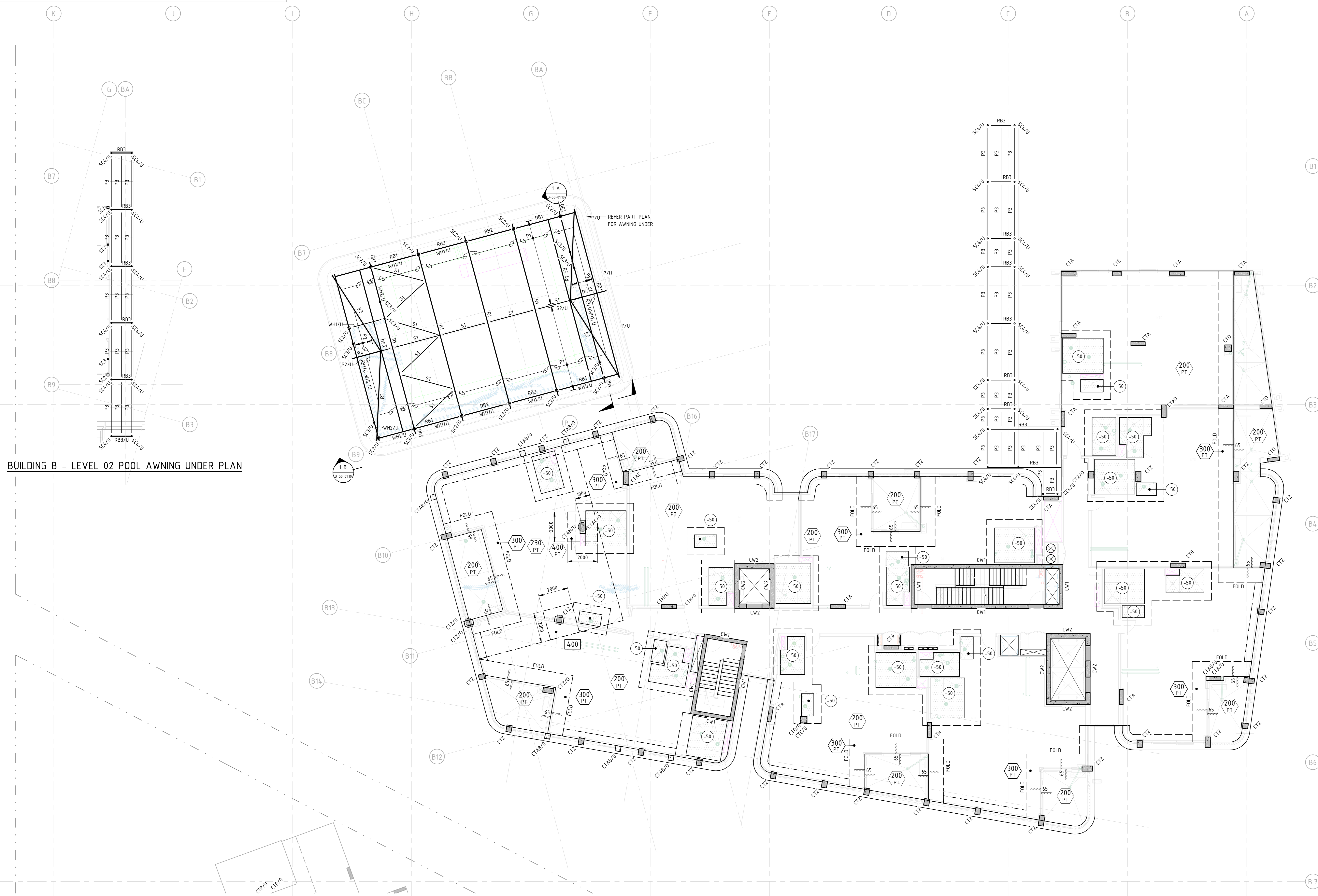
MARK	THICKNESS	COMMENTS
CONCRETE WALL		
CW1	250	
CW2	300	

**- POOL FRAMING SCHEDULE -**

MARK	SIZE	COMMENTS
OUTRIGGER		
OR1	150 x 100 x 6.0 RHS	
PURLIN		
P1	EC15010 AT 1200 CTS	1 ROW OF BRIDGING
P2	EC15015 AT 600 CTS	1 ROW OF BRIDGING
RAFTER		
R1	250 LB 25.7	
R2	200 LB 25.4	CRANK AT RIDGE, FPBW
R3	180 LB 18.1	
R4	150 x 100 x 6.0 RHS	
R5	250 LB 31.4	CRANK AT RIDGE, FPBW
ROOF BEAM		
RB1	250 x 150 x 6.0 RHS	
RB2	89 x 89 x 6.0 SHS	
STEEL COLUMN		
SC2	150 x 150 x 6.0 SHS	
SC3	89 x 89 x 6.0 SHS	
STRUT		
S1	60.3 x 2.9 CHS	
S2	60.3 x 2.9 CHS	
WINDOW HEADER		
WH1	89 x 89 x 6.0 SHS	
WH2	150 x 150 x 5.0 SHS	

**- BUILDING B - AWNING SCHEDULE -**

MARK	SIZE	COMMENTS
PURLIN		
P3	C10015	
ROOF BEAM		
RB3	150 x 50 x 3.0 RHS	
STEEL COLUMN		
SC4	88.9 x 5.5 CHS	



BUILDING B - LEVEL 02 POOL AWNING UNDER PLAN

BUILDING B - LEVEL 02 PLAN

DRAWN: B. GIBSON/D.BILLS JOB MANAGER: M. ALLEN DESIGNED: D. SAMBARKODY

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
2	FOR INFORMATION	DB	DS		16.07.24
3	FOR INFORMATION	BG	KVA		22.11.24
4	FOR INFORMATION	BG	KVA		29.11.24
5	FOR COORDINATION	CC	MA		23.06.25
6	FOR COORDINATION	CC	AE		14.10.25
7	FOR INFORMATION	CC	AE		11.12.25

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ARCHITECT: **plus**

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Newcastle  
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 Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
 ADR 61 1004 433 100

PROJECT: 27 TIRAL STREET, CHARLESTOWN

DRAWING TITLE: STRUCTURAL DRAWING BUILDING B - LEVEL 02 PLAN	JOB NUMBER: NL200227
	PROJECT AND DRAWING NUMBER: NCE-ST-B-20-02.01
	DRAWING SHEET SIZE: A0
	REVISION: 7

**NOT FOR CONSTRUCTION**

NOT DECLARED

**NOTES**

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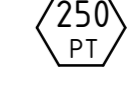
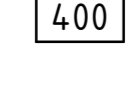
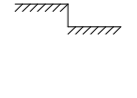

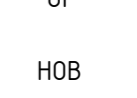
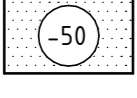
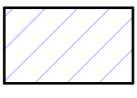

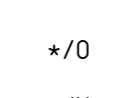
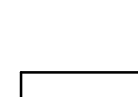

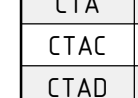
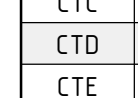
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ARCHITECTURAL HOBS/UPSTAND BALUSTRADES NOT INDICATED.

DOOR REBATES NOT SHOWN ON PLAN.

**LEGEND**

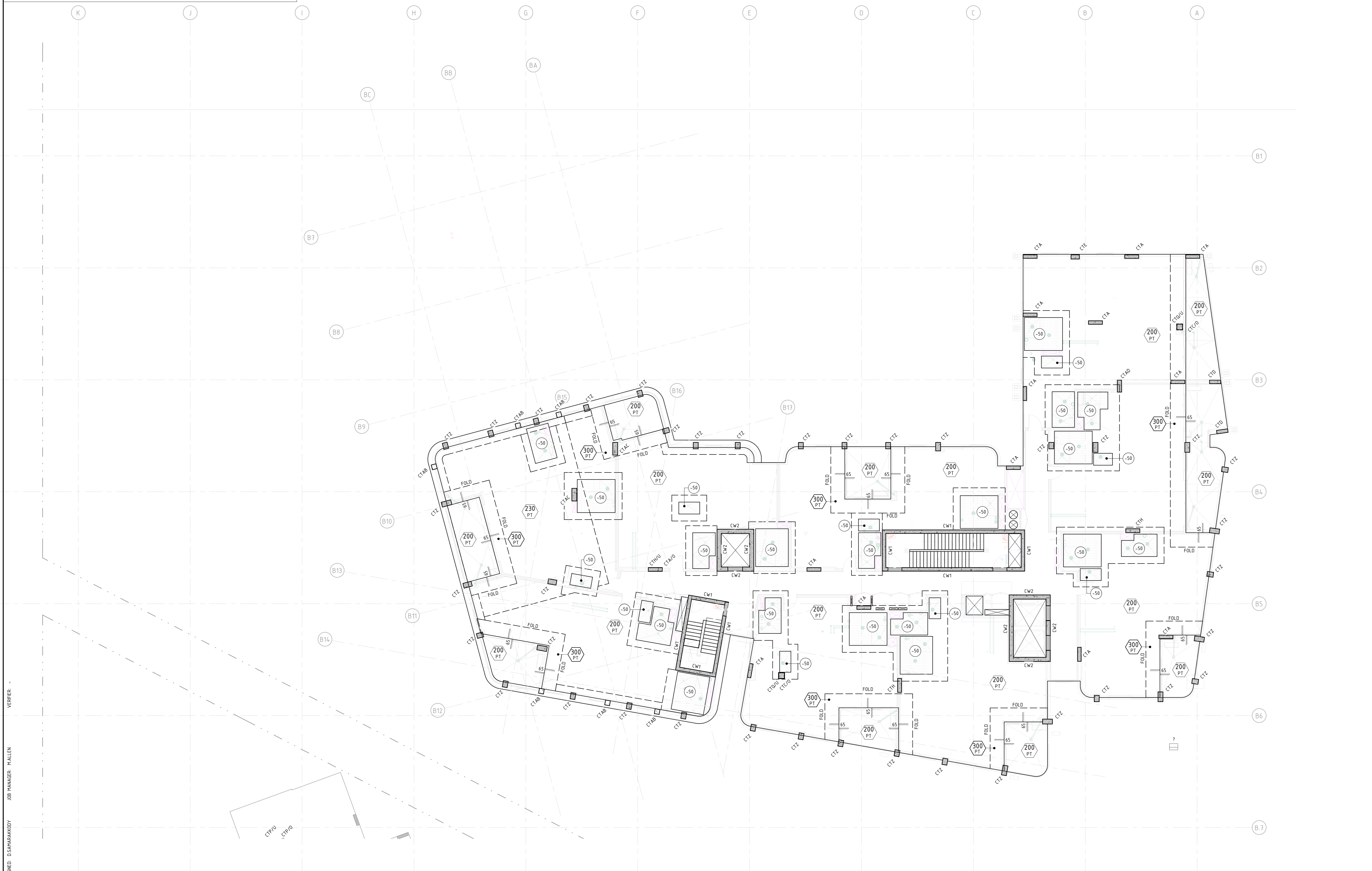
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  -  DENOTES MINIMUM POST-TENSIONED CONCRETE BEAM DEPTH
  -  DENOTES SLAB STEP, REFER TO ARCHITECTURAL DOCUMENTATION FOR SLAB SETOUT
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  -  DENOTES OVERFLOW
  -  DENOTES HOB
  -  DENOTES SETDOWN VALUE FOR WET AREAS, MAINTAIN SLAB DEPTHS AT WET AREAS, PROVIDE 500mm WIDE SOFFIT STEP AT WET AREAS, TYPICAL.
  -  DENOTES 180 MINUTE FRL REQUIRED, SLAB REINFORCEMENT AND PT AXIS DISTANCE TO BE ADJUSTED TO SUIT
  -  DENOTES PENETRATION/VOID IN SLAB, PROVIDE TRIMMER BARS
  -  DENOTES RISER ZONE
  -  DENOTES TEMPORARY MOVEMENT JOINT, DETAILS & LOCATIONS TBC
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  -  DENOTES LOAD-BEARING STRUCTURAL ELEMENT
  -  DENOTES STRUCTURAL MEMBER OVER
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**- BUILDING B - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
CONCRETE COLUMN		
CTA	250 x 1000	
CTAC	250 x 900	
CTAD	300 x 850	
CTC	400 x 400	
CTD	250 x 800	
CTE	300 x 600	
CTH	280 x 1000	
CTI	450 x 450	
CTJ	350 x 450	
NON LOAD-BEARING CONCRETE COLUMN		
CTAB	350 x 350	

**- BUILDING B - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
CONCRETE WALL		
CW1	250	
CW2	300	



**BUILDING B - LEVEL 03 PLAN**

DRAWN: B. GIBSON/D.BILLS DESIGNED: D. SAMBARKODY JOB MANAGER: M. ALLEN MEMBER: -

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
2	FOR INFORMATION	DB	DS	16.07.24	
3	FOR INFORMATION	BG	KVA	22.11.24	
4	FOR INFORMATION	BG	KVA	29.11.24	
5	FOR COORDINATION	CC	MA	23.06.25	
6	FOR COORDINATION	CC	AE	14.10.25	
7	FOR INFORMATION	CC	AE	11.12.25	

CLIENT: **Uniting**

ARCHITECT: **plus**

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ABN 61 104 433 100

PROJECT: **27 TIRAL STREET, CHARLESTOWN**

DRAWING TITLE: **STRUCTURAL DRAWING BUILDING B - LEVEL 03 PLAN**

JOB NUMBER: **NL200227**

PROJECT AND DRAWING NUMBER: **NCE-ST-B-20-03.01**

DRAWING SHEET SIZE: **A0**

REVISION: **7**

**NOT FOR CONSTRUCTION**

NOT DECLARED

**NOTES**

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 ARCHITECTURAL HOBS/UPSTAND BALUSTRADES NOT INDICATED.  
 DOOR REBATES NOT SHOWN ON PLAN.

**LEGEND**

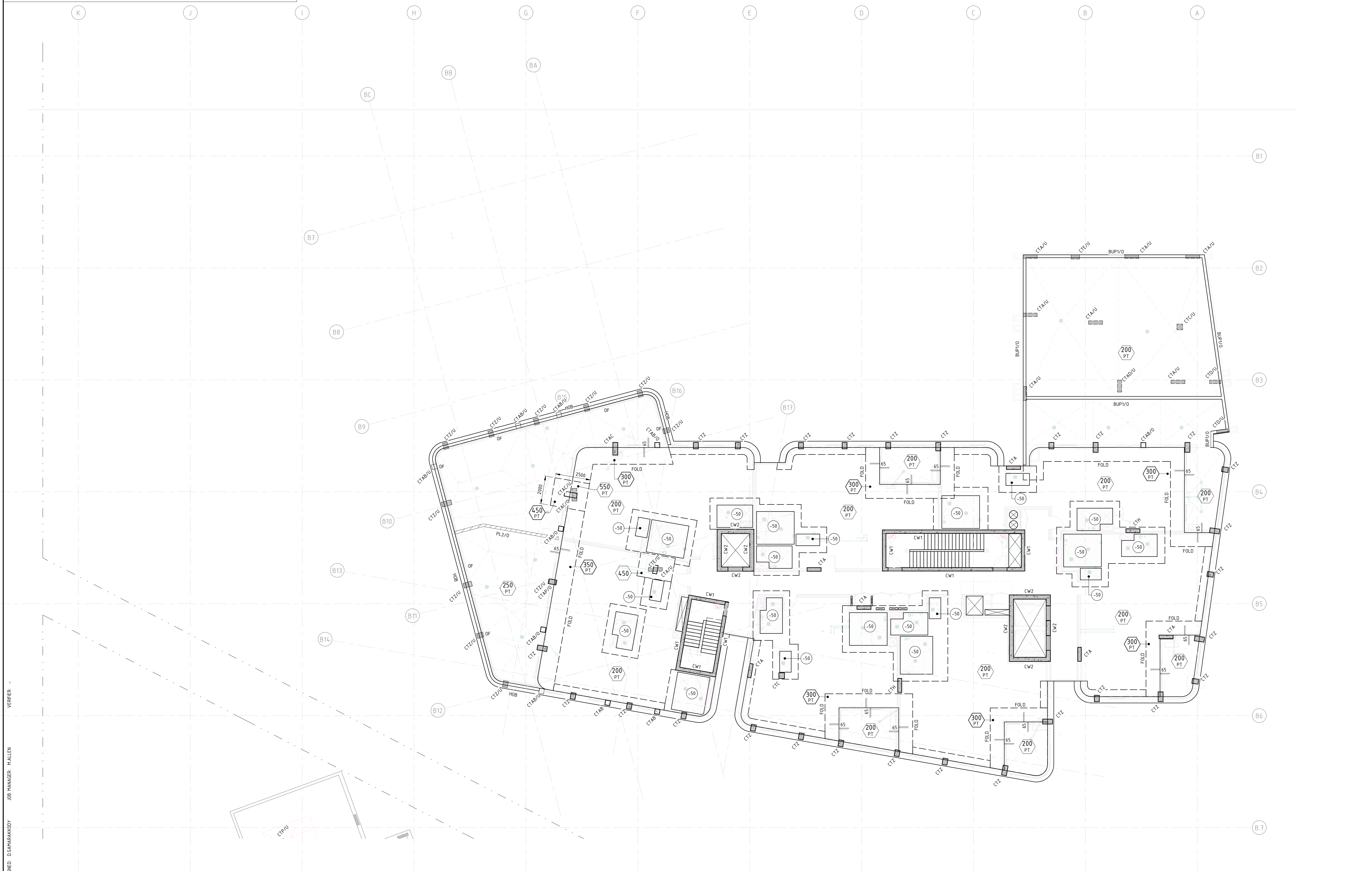
-  DENOTES MINIMUM POST-TENSIONED SLAB THICKNESS, REFER PLANS FOR VARIATIONS IN DEPTH
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  -  DENOTES OVERFLOW
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  -  DENOTES SETDOWN VALUE FOR WET AREAS, MAINTAIN SLAB DEPTHS AT WET AREAS, PROVIDE 500mm WIDE SOFFIT STEP AT WET AREAS. TYPICAL.
  -  DENOTES 180 MINUTE FRL REQUIRED, SLAB REINFORCEMENT AND PT AXIS DISTANCE TO BE ADJUSTED TO SUIT
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  -  DENOTES RISER ZONE
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  -  DENOTES PERMANENT MOVEMENT JOINT, DETAILS TBC
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  -  DENOTES LOAD-BEARING STRUCTURAL ELEMENT
  -  DENOTES STRUCTURAL MEMBER OVER
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**- BUILDING B - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
CONCRETE COLUMN		
CTA	250 x 1000	
CTAC	350 x 900	
CTAD	300 x 850	
CTAP	350 x 500	
CTC	400 x 400	
CTD	250 x 800	
CTE	300 x 600	
CTH	200 x 1000	
CTZ	350 x 450	
NON LOAD-BEARING CONCRETE COLUMN		
CTAB	350 x 350	

**- BUILDING B - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
CONCRETE WALL		
BUP1	200	UPSTAND WALL
CW1	250	
CW2	300	
PLANTER WALL		
PL2	190	CORE FILLED UNREINFORCED BLOCKWORK



**BUILDING B - LEVEL 04 PLAN**  
 ROOF SLAB TO BE DESIGNED AS WATERTIGHT SLAB, MINIMUM 2.0MPa  
 PRESTRESS AND MESH TO ALL AREAS

DRAWN: B. GIBSON/DJBILLS JOB MANAGER: MALLEN DESIGNED: D. SAMPARAKODY MEMBER: -

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
2	FOR INFORMATION	DB	DS		16.07.24
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7	FOR INFORMATION	CC	AE		11.12.25

CLIENT: **Uniting**

ARCHITECT: **plus**

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Newcastle  
 Level 1, 215 Pacific Highway, Charlestown N.S.W. 2290  
 Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
 ADR 61 104 433 100

PROJECT: **27 TIRAL STREET, CHARLESTOWN**

DRAWING TITLE: **STRUCTURAL DRAWING BUILDING B - LEVEL 04 PLAN**

JOB NUMBER: **NL200227**

PROJECT AND DRAWING NUMBER: **NCE-ST-B-20-04.01**

DRAWING SHEET SIZE: **A0**

REVISION: **7**

**NOT FOR CONSTRUCTION**

NOT DECLARED

**NOTES**

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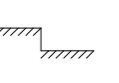
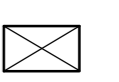
UNLESS NOTED OTHERWISE, MINIMUM STAIR THROAT THICKNESS SHALL BE 200mm.

ALL CONCRETE THICKNESSES DENOTE MINIMUM STRUCTURAL THICKNESS.

ARCHITECTURAL HOBS/UPSTAND BALUSTRADES NOT INDICATED.

DOOR REBATES NOT SHOWN ON PLAN

**LEGEND**

-  DENOTES MINIMUM POST-TENSIONED SLAB THICKNESS, REFER PLANS FOR VARIATIONS IN DEPTH
  -  DENOTES MINIMUM POST-TENSIONED CONCRETE BEAM DEPTH
  -  DENOTES SLAB STEP, REFER TO ARCHITECTURAL DOCUMENTATION FOR SLAB SETOUT
  -  DENOTES FOLD IN SUSPENDED SLAB, UNLESS NOTED OTHERWISE SLAB FOLDS SHALL BE 1000 WIDE. FOLD DEPTHS MAY VARY, REFER TO PLAN FOR SLAB DEPTH AT FOLDS.
  -  DENOTES OVERFLOW
  -  DENOTES HOB
  -  DENOTES SETDOWN VALUE FOR WET AREAS, MAINTAIN SLAB DEPTHS AT WET AREAS, PROVIDE 500mm WIDE SOFFIT STEP AT WET AREAS, TYPICAL.
  -  DENOTES PENETRATION/VOID IN SLAB, PROVIDE TRIMMER BARS
  -  DENOTES RISER ZONE
  -  DENOTES TEMPORARY MOVEMENT JOINT, DETAILS & LOCATIONS TBC
  -  DENOTES PERMANENT MOVEMENT JOINT, DETAILS TBC
  -  DENOTES NON LOAD-BEARING WALL
  -  DENOTES LOAD-BEARING STRUCTURAL ELEMENT
  -  DENOTES STRUCTURAL MEMBER OVER
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**- BUILDING B - WALL TYPE SCHEDULE -**

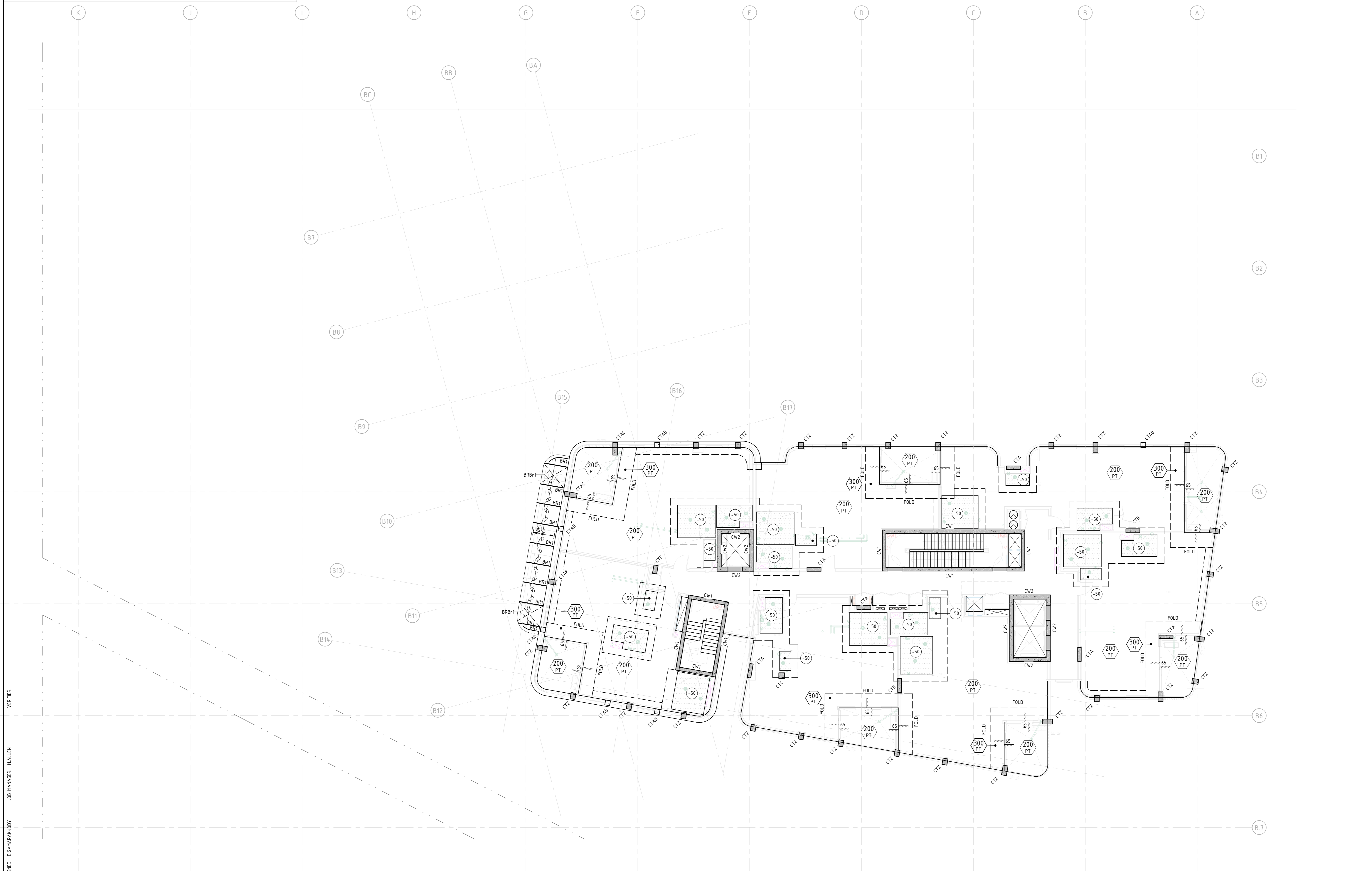
MARK	THICKNESS	COMMENTS
CONCRETE WALL		
CW1	250	
CW2	300	

**- BUILDING B - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
CONCRETE COLUMN		
CTA	250 x 1000	
CTAC	350 x 900	
CTAP	350 x 500	
CTC	400 x 400	
CTE	300 x 600	
CTH	280 x 1000	
CTZ	350 x 450	
NON LOAD-BEARING CONCRETE COLUMN		
CTAB	350 x 350	

**- BUILDING B - AWNING SCHEDULE -**

MARK	SIZE	COMMENTS
AWNING PURLIN		
BR1	C100-12 AT 600 CTS	1 ROW OF BRIDGING
AWNING RAFTER		
BR1	100 x 50 x 5.0 RHS	WITH 50 x 50 x 5.0 SHS BOX GUTTER SUPPORT, REFER DETAIL
BR2	50 x 50 x 5.0 SHS	
ROOF BRACING		
BRB1	2730 x 0.8mm STRAP BRACING	



**BUILDING B - LEVEL 05 PLAN**

DRAWN: B. GIBSON/D.BILLS DESIGNED: D. SAMBARKODY JOB MANAGER: M. ALLEN VERIFIED: -

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
2	FOR INFORMATION	DB	DS		16.07.24
3	FOR INFORMATION	BG	KVA		22.11.24
4	FOR INFORMATION	BG	KVA		29.11.24
5	FOR COORDINATION	CC	MA		23.06.25
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PLAN 1:1000 1:2000 1:5000 1:10000

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ABN 61 104 433 100

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DRAWING TITLE **STRUCTURAL DRAWING BUILDING B - LEVEL 05 PLAN**

JOB NUMBER **NL200227**  
PROJECT AND DRAWING NUMBER **NCE-ST-B-20-05.01**  
DRAWING SHEET SIZE **A0**  
REVISION **7**

**NOT FOR CONSTRUCTION**

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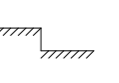

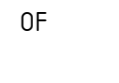
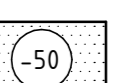
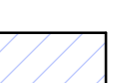
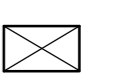

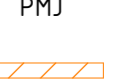
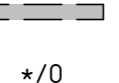
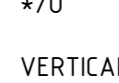
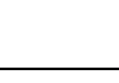

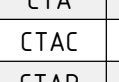
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**LEGEND**

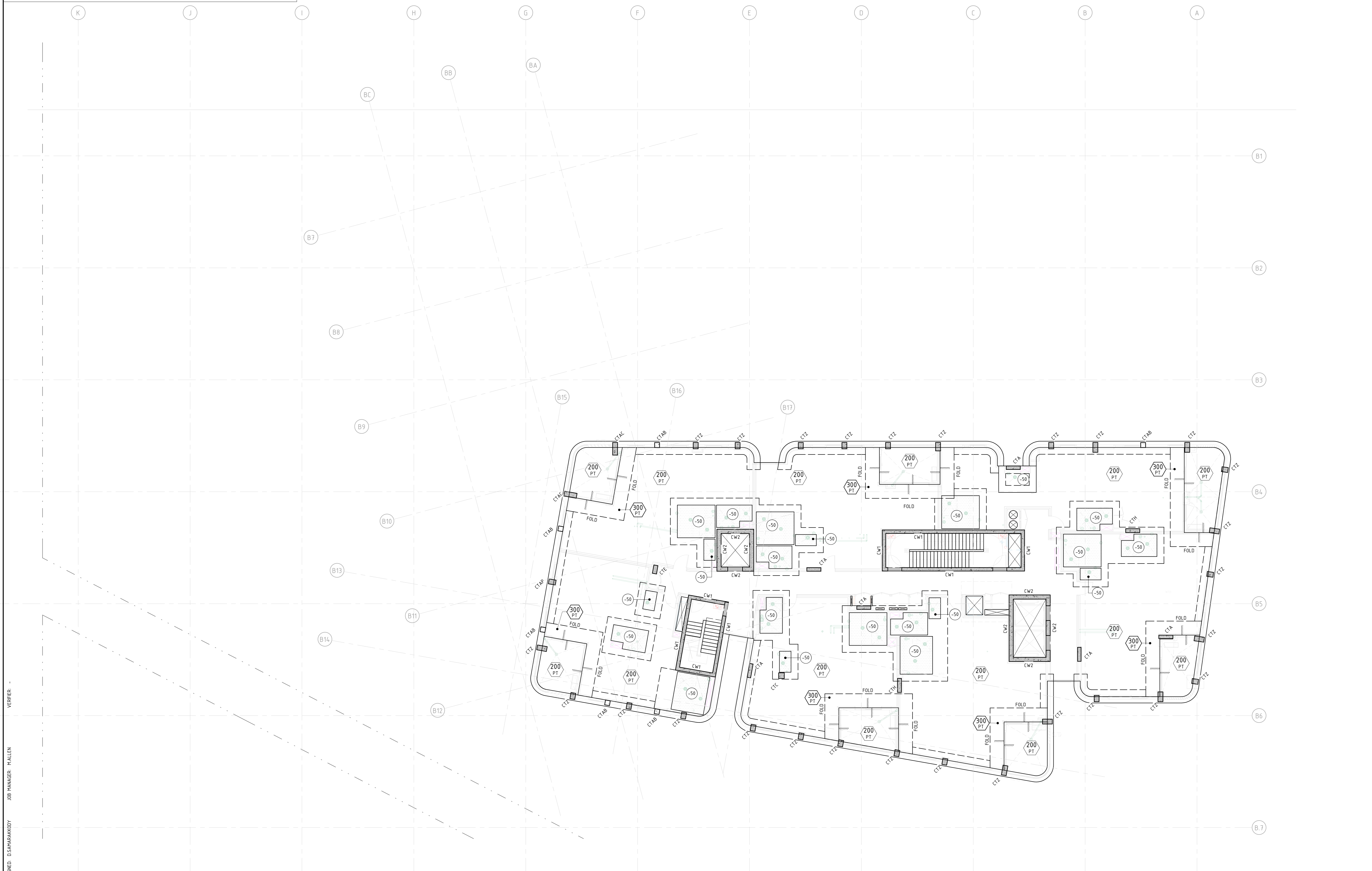
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**- BUILDING B - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
<b>CONCRETE COLUMN</b>		
CTA	250 x 1000	
CTAC	350 x 900	
CTAP	350 x 500	
CTC	400 x 400	
CTE	300 x 600	
CTH	300 x 1000	
CTI	350 x 450	
<b>NON LOAD-BEARING CONCRETE COLUMN</b>		
CTAB	350 x 350	

**- BUILDING B - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
<b>CONCRETE WALL</b>		
CW1	250	
CW2	300	



**BUILDING B - LEVEL 06 PLAN**

DRAWN: B. GIBSON/DIBILLS JOB MANAGER: MALLEN MEMBER: --

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
2	FOR INFORMATION	DB	DS	16.07.24	
3	FOR INFORMATION	BG	KVA	22.11.24	
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DRAWING TITLE **STRUCTURAL DRAWING BUILDING B - LEVEL 06 PLAN**

JOB NUMBER **NL200227**  
PROJECT AND DRAWING NUMBER **NCE-ST-B-20-06.01**  
DRAWING SHEET SIZE **A0** REVISION **7**

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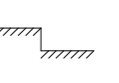

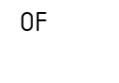
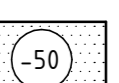
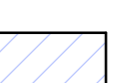

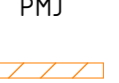
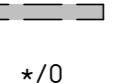
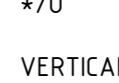
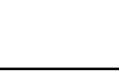

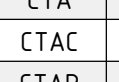
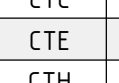
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  -  DENOTES 180 MINUTE FRL REQUIRED, SLAB REINFORCEMENT AND PT AXIS DISTANCE TO BE ADJUSTED TO SUIT
  -  DENOTES PENETRATION/VOID IN SLAB, PROVIDE TRIMMER BARS
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**- BUILDING B - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
CONCRETE COLUMN		
CTA	250 x 1000	
CTAC	350 x 900	
CTAP	350 x 500	
CTC	400 x 400	
CTE	300 x 600	
CTH	300 x 1000	
CTZ	350 x 450	
NON LOAD-BEARING CONCRETE COLUMN		
CTAB	350 x 350	

**- BUILDING B - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
CONCRETE WALL		
CW1	250	
CW2	300	



**BUILDING B - LEVEL 07 PLAN**

DRAWN: B. GIBSON/D.BILLS JOB MANAGER: M. ALLEN VERIFIED: D. SAMBARKODY

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
2	FOR INFORMATION	DB	DS		16.07.24
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ABN 61 104 433 100

PROJECT **27 TIRAL STREET, CHARLESTOWN**

DRAWING TITLE **STRUCTURAL DRAWING BUILDING B - LEVEL 07 PLAN**

JOB NUMBER **NL200227**  
PROJECT AND DRAWING NUMBER **NCE-ST-B-20-07.01**  
DRAWING SHEET SIZE **A0** REVISION **7**

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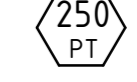
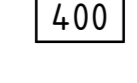
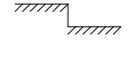

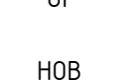
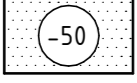

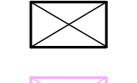


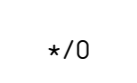
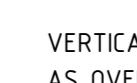
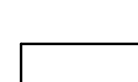

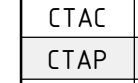
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DOOR REBATES NOT SHOWN ON PLAN

**LEGEND**

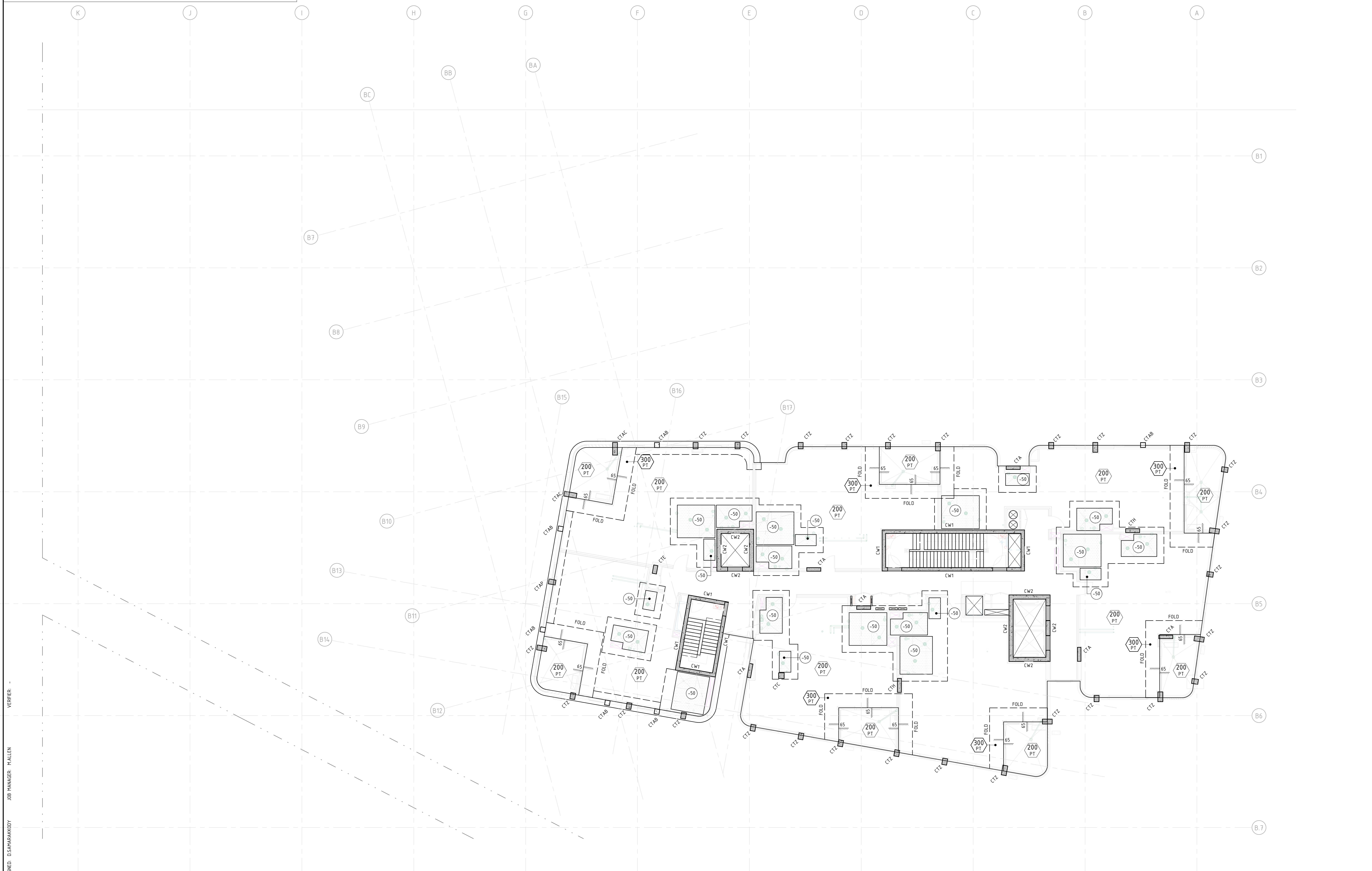
-  DENOTES MINIMUM POST-TENSIONED SLAB THICKNESS, REFER PLANS FOR VARIATIONS IN DEPTH
  -  DENOTES MINIMUM POST-TENSIONED CONCRETE BEAM DEPTH
  -  DENOTES SLAB STEP, REFER TO ARCHITECTURAL DOCUMENTATION FOR SLAB SETOUT
  -  DENOTES FOLD IN SUSPENDED SLAB, UNLESS NOTED OTHERWISE SLAB FOLDS SHALL BE 1000 WIDE. FOLD DEPTHS MAY VARY, REFER TO PLAN FOR SLAB DEPTH AT FOLDS.
  -  DENOTES OVERFLOW
  -  DENOTES HOB
  -  DENOTES SETDOWN VALUE FOR WET AREAS, MAINTAIN SLAB DEPTHS AT WET AREAS, PROVIDE 500mm WIDE SOFFIT STEP AT WET AREAS, TYPICAL.
  -  DENOTES PENETRATION/VOID IN SLAB, PROVIDE TRIMMER BARS
  -  DENOTES RISER ZONE
  -  DENOTES TEMPORARY MOVEMENT JOINT, DETAILS & LOCATIONS TBC
  -  DENOTES PERMANENT MOVEMENT JOINT, DETAILS TBC
  -  DENOTES NON LOAD-BEARING WALL
  -  DENOTES LOAD-BEARING STRUCTURAL ELEMENT
  -  DENOTES STRUCTURAL MEMBER OVER
  -  DENOTES STRUCTURAL MEMBER UNDER
- VERTICAL STRUCTURAL ELEMENTS WITHOUT A SUFFIX (+/O OR +/U) SHALL BE READ AS OVER & UNDER. REFER TO MEMBER SCHEDULE FOR ADDITIONAL INFORMATION.

**- BUILDING B - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
CONCRETE COLUMN		
CTA	250 x 1000	
CTAC	350 x 900	
CTAP	350 x 500	
CTC	400 x 400	
CTE	300 x 600	
CTH	300 x 1000	
CTZ	350 x 450	
NON LOAD-BEARING CONCRETE COLUMN		
CTAB	350 x 350	

**- BUILDING B - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
CONCRETE WALL		
CW1	250	
CW2	300	



**BUILDING B - LEVEL 08 PLAN**

DRAWN: B. GIBSON/DIBILLS JOB MANAGER: MALLEN VERIFIED: D. SAMBARKODY

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
2	FOR INFORMATION	DB	DS		16.07.24
3	FOR INFORMATION	BG	KVA		22.11.24
4	FOR INFORMATION	BG	KVA		29.11.24
5	FOR COORDINATION	CC	MA		23.06.25
6	FOR COORDINATION	CC	AE		14.10.25
7	FOR INFORMATION	CC	AE		11.12.25

CLIENT: **Uniting**

ARCHITECT: **plus**

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**NORTHROP**

Newcastle  
Level 1, 215 Pacific Highway, Charlestown N.S.W. 2290  
Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
ADR 61 104 433 100

PROJECT: **27 TIRAL STREET, CHARLESTOWN**

DRAWING TITLE: **STRUCTURAL DRAWING BUILDING B - LEVEL 08 PLAN**

JOB NUMBER: **NL200227**

PROJECT AND DRAWING NUMBER: **NCE-ST-B-20-08.01**

DRAWING SHEET SIZE: **A0**

REVISION: **7**

**NOT FOR CONSTRUCTION**



NOT DECLARED

**NOTES**

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UNLESS NOTED OTHERWISE, MINIMUM STAIR THROAT THICKNESS SHALL BE 200mm.

ALL CONCRETE THICKNESSES DENOTE MINIMUM STRUCTURAL THICKNESS.

ARCHITECTURAL HOBS/UPSTAND BALUSTRADES NOT INDICATED.

DOOR REBATES NOT SHOWN ON PLAN

**LEGEND**

-  DENOTES MINIMUM POST-TENSIONED SLAB THICKNESS, REFER PLANS FOR VARIATIONS IN DEPTH
  -  DENOTES MINIMUM POST-TENSIONED CONCRETE BEAM DEPTH
  -  DENOTES SLAB STEP, REFER TO ARCHITECTURAL DOCUMENTATION FOR SLAB SETOUT
  -  DENOTES FOLD IN SUSPENDED SLAB. UNLESS NOTED OTHERWISE SLAB FOLDS SHALL BE 1000 WIDE. FOLD DEPTHS MAY VARY, REFER TO PLAN FOR SLAB DEPTH AT FOLDS.
  -  DENOTES OVERFLOW
  -  DENOTES HOB
  -  DENOTES SETDOWN VALUE FOR WET AREAS, MAINTAIN SLAB DEPTHS AT WET AREAS, PROVIDE 50mm WIDE SOFFIT STEP AT WET AREAS. TYPICAL.
  -  DENOTES 180 MINUTE FRL REQUIRED, SLAB REINFORCEMENT AND PT AXIS DISTANCE TO BE ADJUSTED TO SUIT
  -  DENOTES PENETRATION/VOID IN SLAB, PROVIDE TRIMMER BARS
  -  DENOTES RISER ZONE
  -  DENOTES TEMPORARY MOVEMENT JOINT. DETAILS & LOCATIONS TBC
  -  DENOTES PERMANENT MOVEMENT JOINT. DETAILS TBC
  -  DENOTES NON LOAD-BEARING WALL
  -  DENOTES LOAD-BEARING STRUCTURAL ELEMENT
  -  DENOTES STRUCTURAL MEMBER OVER
  -  DENOTES STRUCTURAL MEMBER UNDER
- VERTICAL STRUCTURAL ELEMENTS WITHOUT A SUFFIX (+/O OR +/U) SHALL BE READ AS OVER & UNDER. REFER TO MEMBER SCHEDULE FOR ADDITIONAL INFORMATION.

**- BUILDING B - COLUMN TYPE SCHEDULE -**

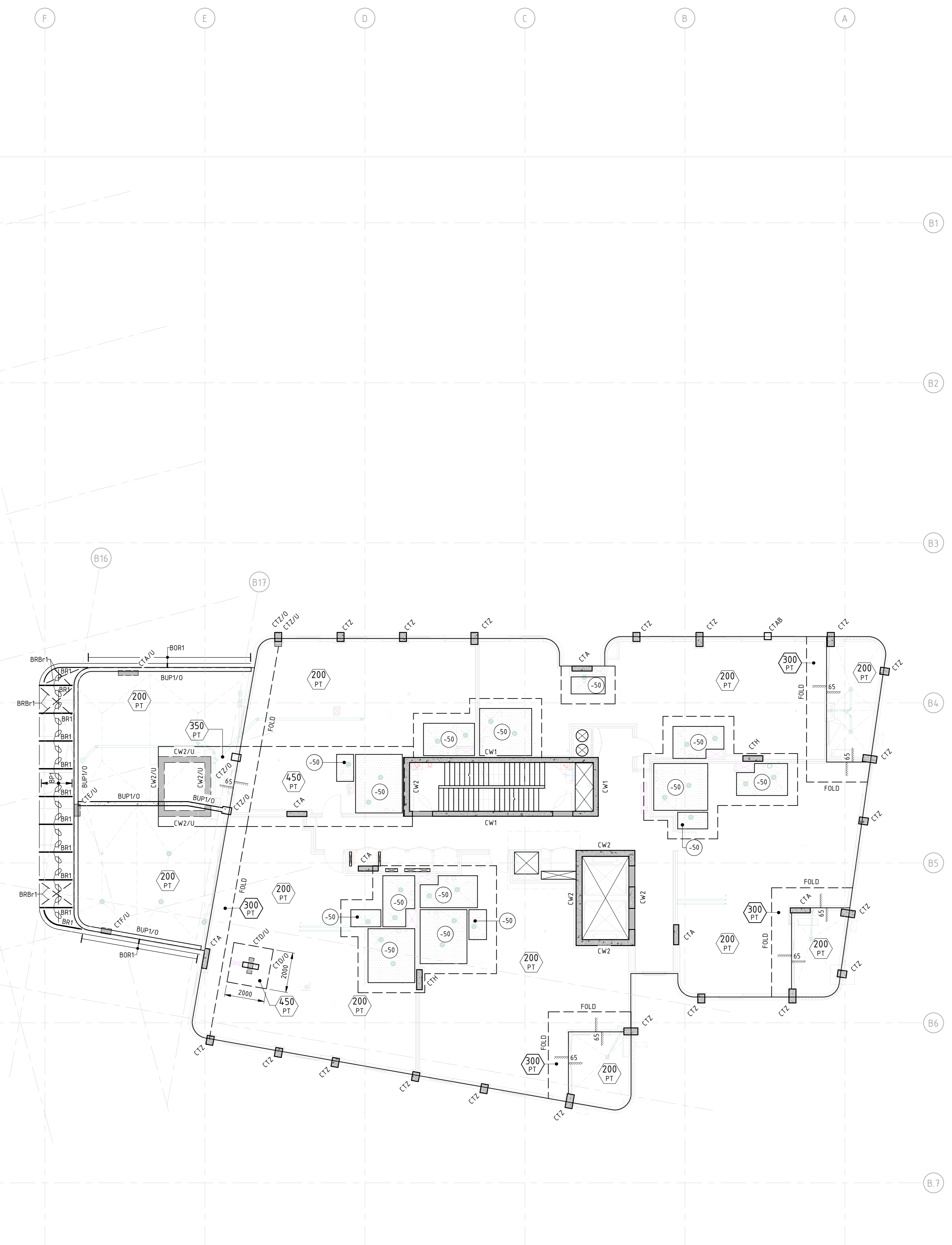
MARK	SIZE	COMMENTS
<b>CONCRETE COLUMN</b>		
CTA	250 x 1000	
CTD	250 x 800	
CTE	300 x 600	
CTF	275 x 500	
CTH	280 x 1000	
CTZ	350 x 450	
<b>NON LOAD-BEARING CONCRETE COLUMN</b>		
CTAB	350 x 350	

**- BUILDING B - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
<b>CONCRETE WALL</b>		
BUPI	200	UPSTAND WALL
CW1	250	
CW2	300	

**- BUILDING B - AWNING SCHEDULE -**

MARK	SIZE	COMMENTS
<b>AWNING OUTRIGGER</b>		
BOR1	50 x 50 x 6 EA AT 600 CTS	BOX GUTTER SUPPORT
<b>AWNING PURLIN</b>		
BP1	[100-12 AT 600 CTS	1 ROW OF BRIDGING
<b>AWNING RAFTER</b>		
BR1	100 x 50 x 5.0 RHS	WITH 50 x 50 x 5.0 SHS BOX GUTTER SUPPORT, REFER DETAIL.
<b>ROOF BRACING</b>		
BRB-1	2/30 x 0.8mm STRAP BRACING	



**BUILDING B - LEVEL 10 PLAN**  
 ROOF SLAB TO BE DESIGNED AS WATERTIGHT SLAB, MINIMUM 20MPa  
 PRESTRESS AND MESH TO ALL AREAS

DRAWN: B. GIBSON/DJBILLS DESIGNED: D. SAMBARKODY JOB MANAGER: M. ALLEN MEMBER: -

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
2	FOR INFORMATION	DB	DS		16.07.24
3	FOR INFORMATION	BG	KVA		22.11.24
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5	FOR COORDINATION	CC	MA		23.06.25
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CLIENT **Uniting** ARCHITECT **plus**

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PLAN 1:1000 1:2000 1:5000 1:10000

**NORTHROP** Newcastle  
 Level 1, 215 Pacific Highway, Charlestown N.S.W. 2290  
 Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
 ADR 61 104 433 100

PROJECT **27 TIRAL STREET, CHARLESTOWN**

DRAWING TITLE **STRUCTURAL DRAWING BUILDING B - LEVEL 10 PLAN**

JOB NUMBER **NL200227**  
 PROJECT AND DRAWING NUMBER **NCE-ST-B-20-10.01**  
 DRAWING SHEET SIZE **A0**  
 REVISION **7**

**NOT FOR CONSTRUCTION**

NOT DECLARED

**NOTES**

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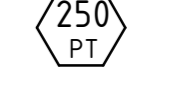
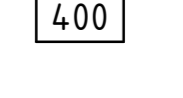


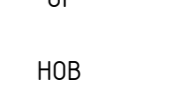
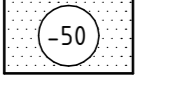
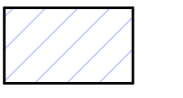
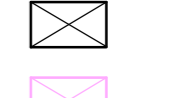

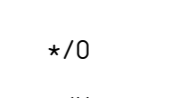
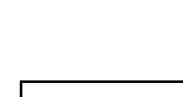
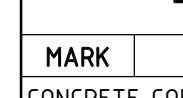
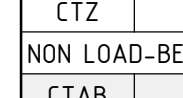
UNLESS NOTED OTHERWISE, MINIMUM STAIR THROAT THICKNESS SHALL BE 200mm.

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ARCHITECTURAL HOBS/UPSTAND BALUSTRADES NOT INDICATED.

DOOR REBATES NOT SHOWN ON PLAN

**LEGEND**

-  DENOTES MINIMUM POST-TENSIONED SLAB THICKNESS, REFER PLANS FOR VARIATIONS IN DEPTH
  -  DENOTES MINIMUM POST-TENSIONED CONCRETE BEAM DEPTH
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  -  DENOTES HOB
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  -  DENOTES 180 MINUTE FRL REQUIRED, SLAB REINFORCEMENT AND PT AXIS DISTANCE TO BE ADJUSTED TO SUIT
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- VERTICAL STRUCTURAL ELEMENTS WITHOUT A SUFFIX (+/0 OR +/U) SHALL BE READ AS OVER & UNDER. REFER TO MEMBER SCHEDULE FOR ADDITIONAL INFORMATION.

**- BUILDING B - COLUMN TYPE SCHEDULE -**

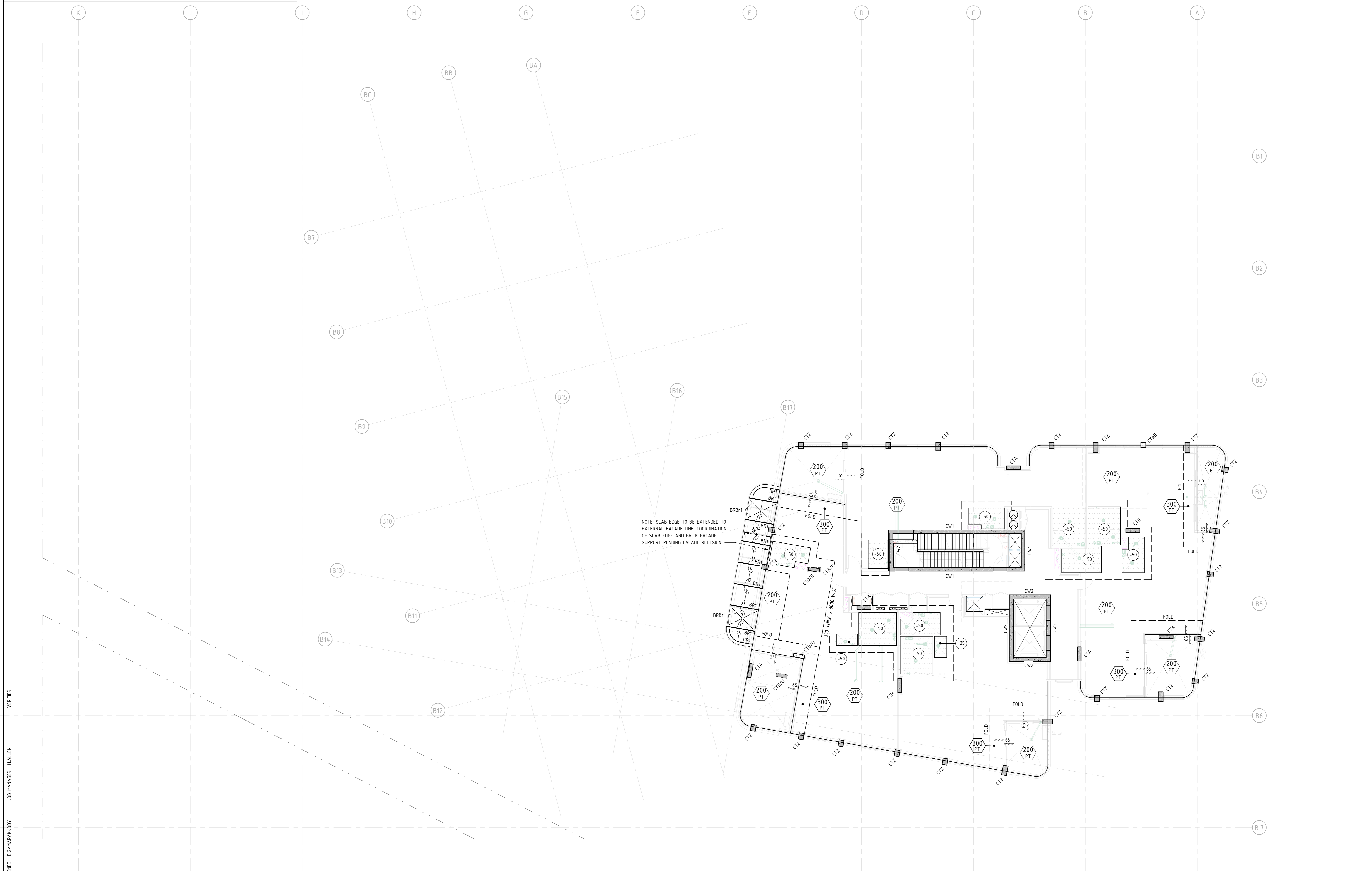
MARK	SIZE	COMMENTS
CONCRETE COLUMN		
CTA	250 x 1000	
CTD	250 x 800	
CTH	280 x 1000	
CTZ	350 x 450	
NON LOAD-BEARING CONCRETE COLUMN		
CTAB	350 x 350	

**- BUILDING B - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
CONCRETE WALL		
CW1	250	
CW2	300	

**- BUILDING B - AWNING SCHEDULE -**

MARK	SIZE	COMMENTS
AWNING PURLIN		
BP1	CT100-12 AT 600 CTS	1 ROW OF BRIDGING
AWNING RAFTER		
BR1	100 x 50 x 5.0 RHS	WITH 50 x 50 x 5.0 SHS BOX GUTTER SUPPORT, REFER DETAIL
BR2	50 x 50 x 5.0 SHS	
ROOF BRACING		
BRB-1	2/30 x 0.8mm STRAP BRACING	



**BUILDING B - LEVEL 11 PLAN**

DRAWN: B. GIBSON/D.BILLS DESIGNED: D. SAMBARKODY JOB MANAGER: M. ALLEN VERIFIED: -

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
2	FOR INFORMATION	DB	DS		16.07.24
3	FOR INFORMATION	BG	KVA		22.11.24
4	FOR INFORMATION	BG	KVA		29.11.24
5	FOR COORDINATION	CC	MA		23.06.25
6	FOR COORDINATION	CC	AE		14.10.25
7	FOR INFORMATION	CC	AE		11.12.25

CLIENT: **Uniting**

ARCHITECT: **plus**

NEWCASTLE

Level 1, 215 Pacific Highway, Charlestown N.S.W. 2290  
Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
ABN: 61 104 433 100

**NORTHROP**

NEWCASTLE

Level 1, 215 Pacific Highway, Charlestown N.S.W. 2290  
Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
ABN: 61 104 433 100

PROJECT: **27 TIRAL STREET, CHARLESTOWN**

**NOT FOR CONSTRUCTION**

DRAWING TITLE	JOB NUMBER
STRUCTURAL DRAWING <b>BUILDING B - LEVEL 11 PLAN</b>	<b>NL200227</b>
DRAWING SHEET SIZE	REVISION
A0	7

NOT DECLARED

**NOTES**

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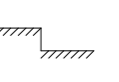
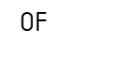
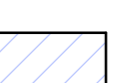
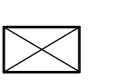

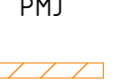
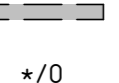
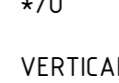


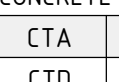
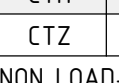
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ARCHITECTURAL HOBBS/UPSTAND BALUSTRADES NOT INDICATED.

DOOR REBATES NOT SHOWN ON PLAN

**LEGEND**

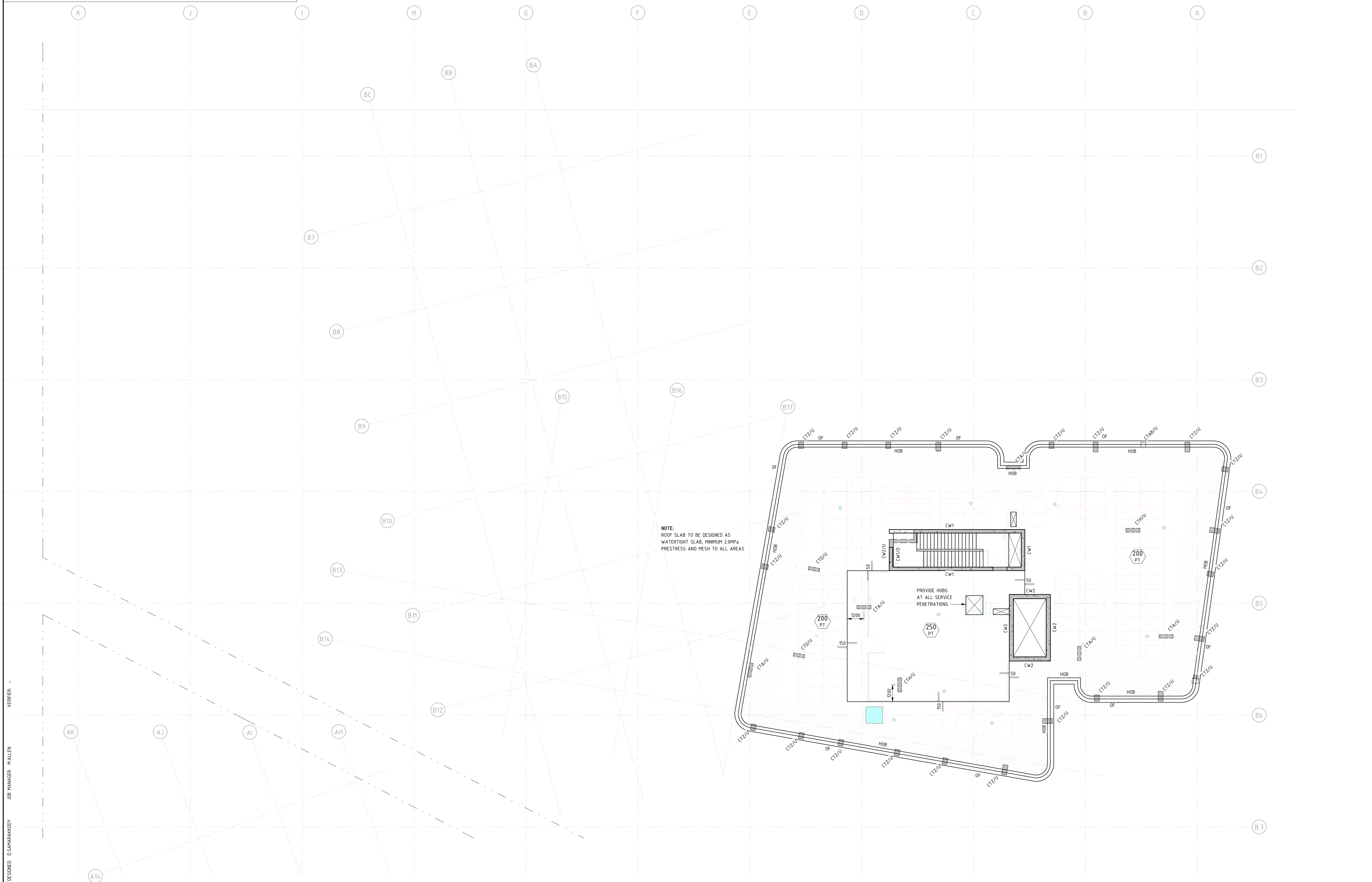
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**- BUILDING B - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
CONCRETE COLUMN		
CTA	250 x 1000	
CTD	250 x 800	
CTH	200 x 1000	
CTZ	350 x 450	
NON LOAD-BEARING CONCRETE COLUMN		
CTAB	350 x 350	

**- BUILDING B - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
CONCRETE WALL		
CW1	250	
CW2	300	



**BUILDING B - ROOF PLAN**

DRAWN: B. GIBSON/D.BILLS DESIGNED: D. SAMARAKODY JOB MANAGER: M. ALLEN VERIFIED: -

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
2	FOR INFORMATION	DB		DS	16.07.24
3	FOR INFORMATION	BG		KVA	22.11.24
4	FOR INFORMATION	BG		KVA	29.11.24
5	FOR COORDINATION	CC		MA	23.06.25
6	FOR COORDINATION	CC		AE	14.10.25
7	FOR INFORMATION	CC		AE	11.12.25

CLIENT: **Uniting**

ARCHITECT: **plus**

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PLAN 1:1000 2000 3000 4000 5000

**NORTHROP**

Newcastle  
Level 1, 215 Pacific Highway, Charlestown N.S.W. 2290  
Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
ADR 61 1004 433 100

PROJECT: **27 TIRAL STREET, CHARLESTOWN**

DRAWING TITLE: **STRUCTURAL DRAWING BUILDING B - ROOF PLAN**

JOB NUMBER: **NL200227**  
PROJECT AND DRAWING NUMBER: **NCE-ST-B-20-12.01**  
DRAWING SHEET SIZE: **A0**  
REVISION: **7**

**NOT FOR CONSTRUCTION**

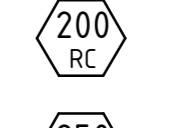
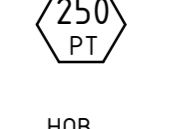
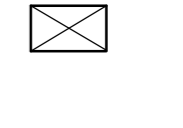

NOT DECLARED

**NOTES**

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 CO-ORDINATE ALL SERVICE PENETRATION SIZES AND LOCATIONS WITH MECHANICAL, ELECTRICAL AND HYDRAULIC CONSULTANTS' DRAWINGS.

UNLESS NOTED OTHERWISE, MINIMUM STAIR THROAT THICKNESS SHALL BE 200mm.  
 ALL CONCRETE THICKNESSES DENOTE MINIMUM STRUCTURAL THICKNESS.  
 ARCHITECTURAL HOB'S/UPSTAND BALUSTRADES NOT INDICATED.  
 DOOR REBATES NOT SHOWN ON PLAN

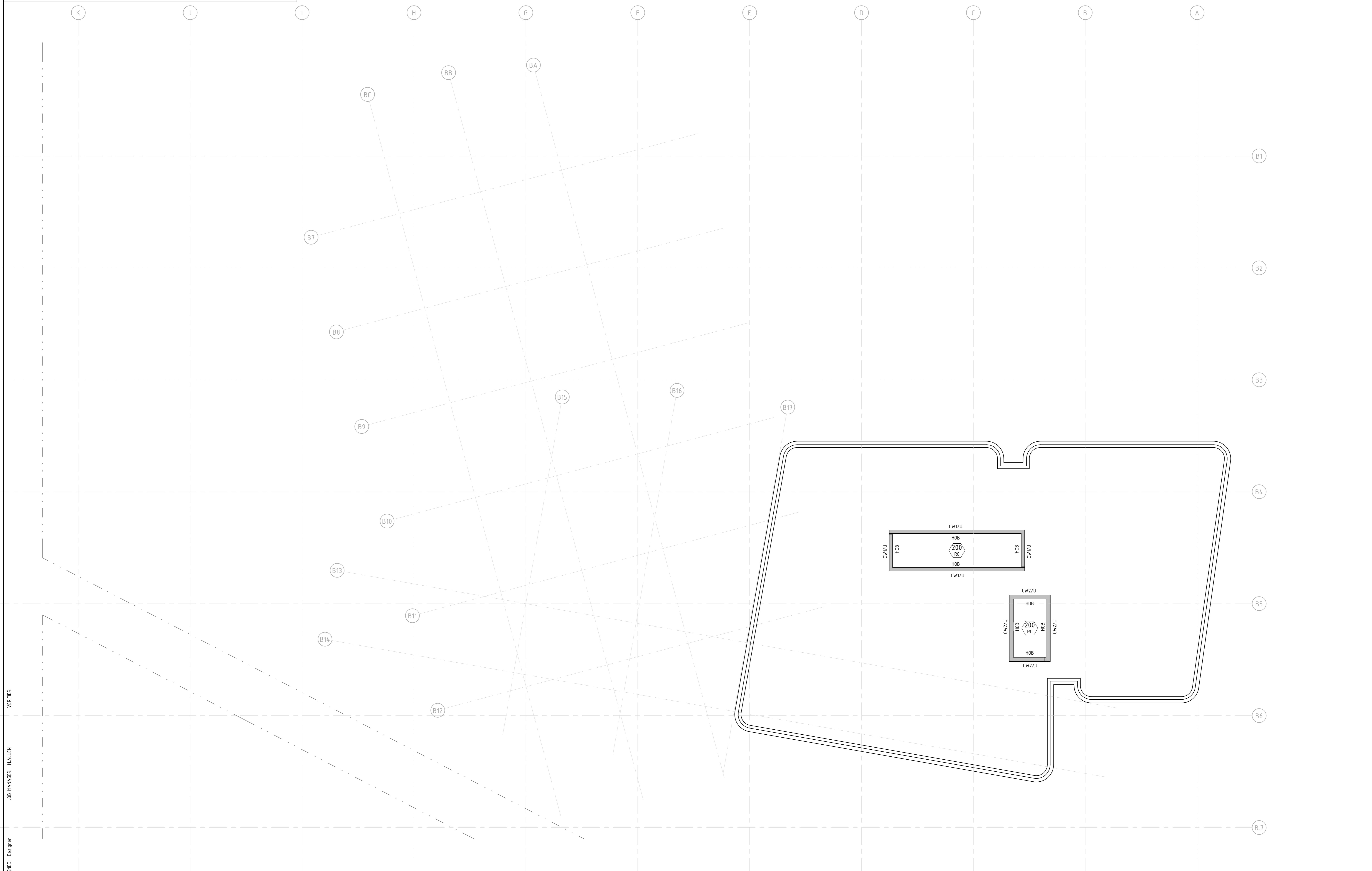
**LEGEND**

-  DENOTES CONVENTIONALLY REINFORCED SLAB THICKNESS, REFER PLANS FOR VARIATIONS IN DEPTH
-  DENOTES POST-TENSIONED SLAB THICKNESS, REFER PLANS FOR VARIATIONS IN DEPTH
- HOB DENOTES HOB
-  DENOTES PENETRATION/VOID IN SLAB, PROVIDE TRIMMER BARS
-  DENOTES LOAD-BEARING STRUCTURAL ELEMENT
- +/0 DENOTES STRUCTURAL MEMBER OVER
- +/U DENOTES STRUCTURAL MEMBER UNDER

VERTICAL STRUCTURAL ELEMENTS WITHOUT A SUFFIX (+/0 OR +/U) SHALL BE READ AS OVER & UNDER. REFER TO MEMBER SCHEDULE FOR ADDITIONAL INFORMATION.

**- BUILDING B - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
CONCRETE WALL		
CW1	250	
CW2	300	



**BUILDING B - OVERRUN PLAN**

DRAWN: B. GIBSON/DBILLS DESIGNED: Designer VERIFIED: JOB MANAGER: MALLEEN

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
1	FOR INFORMATION	DB	DS		16.07.24
2	FOR INFORMATION	BG	KVA		22.11.24
3	FOR INFORMATION	BG	KVA		29.11.24
4	FOR COORDINATION	CC	MA		23.06.25
5	FOR COORDINATION	CC	AE		14.10.25
6	FOR INFORMATION	CC	AE		11.12.25

CLIENT	ARCHITECT	PROJECT	DRAWING TITLE	JOB NUMBER
<b>Uniting</b>	<b>plus</b>	<b>27 TIRAL STREET, CHARLESTOWN</b>	<b>STRUCTURAL DRAWING BUILDING B - OVERRUN PLAN</b>	<b>NL200227</b>

ALL SETOUT TO ARCHITECT'S DRAWINGS. DIMENSIONS TO BE VERIFIED WITH ARCHITECT AND BUILDER BEFORE OPENING SHOP DRAWINGS OR SET WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.

PLAN 1:1000 2000 3000 4000 5000

**NORTHROP** Newcastle  
 Level 1, 215 Pacific Highway, Charlestown N.S.W. 2290  
 Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
 ADR 61 1064 433 100

PROJECT	DRAWING TITLE	JOB NUMBER
<b>27 TIRAL STREET, CHARLESTOWN</b>	<b>STRUCTURAL DRAWING BUILDING B - OVERRUN PLAN</b>	<b>NL200227</b>

DRAWING SHEET SIZE	REVISION
A0	6

**NOT FOR CONSTRUCTION**

NOT DECLARED

**NOTES**

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CO-ORDINATE ALL SERVICE PENETRATION SIZES AND LOCATIONS WITH MECHANICAL, ELECTRICAL AND HYDRAULIC CONSULTANT'S DRAWINGS.

THE LAYOUT, SIZE, & AMOUNT OF PILES IS SHOWN INDICATIVE ONLY. THE PILING CONTRACTOR IS TO DESIGN AND DOCUMENT ALL PILES. SHOULD THE PILE LAYOUT DIFFER FROM THAT SHOWN, ADVISE NORTHROP CONSULTING ENGINEERS FOR DESIGN CONSULTATION. NOTE THAT CHANGES TO PILE LAYOUT MAY RESULT IN AN INCREASE TO THE SIZE OF PILE CAPS.

FOUNDATION LEVELS VARY. REFER ELEVATIONS AND ARCHITECTURAL DOCUMENTATION FOR LEVELS.

**- BUILDING B - FOUNDATION SCHEDULE -**

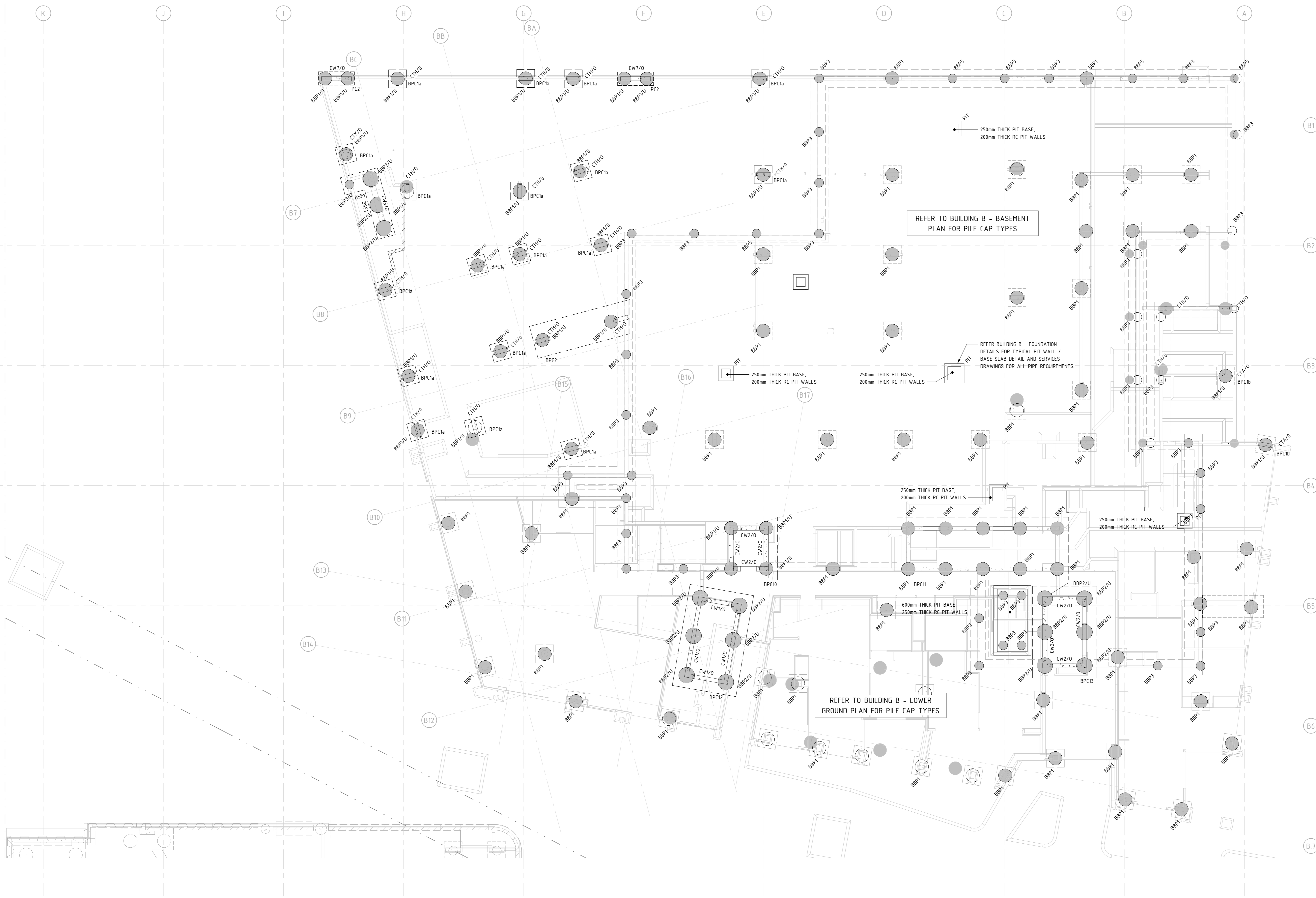
MARK	SIZE	COMMENTS
<b>BORED PILE</b>		
BBP1	900 DIA.	TO PILING CONTRACTORS DETAILS
BBP2	1050 DIA.	TO PILING CONTRACTORS DETAILS
BBP3	600 DIA.	TO PILING CONTRACTORS DETAILS
<b>PILE CAP</b>		
BPC1a	1200 x 1200 x 800 DEEP	
BPC2	2200 WIDE x 800 DEEP	FOOTING BEAM
BPC1b		REFER TO PILE CAP DETAILS
BPC11		REFER TO PILE CAP DETAILS
BPC12		REFER TO PILE CAP DETAILS
BPC13		REFER TO PILE CAP DETAILS
PC2	2400 x 900 x 900 DEEP	
<b>STRIP FOOTING</b>		
BSF1	1200 WIDE x 600 DEEP	

**- BUILDING B - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
<b>CONCRETE COLUMN</b>		
CTA	250 x 1000	
CTAF	350 x 350	
CTAJ	400 x 900	
CTAR	380 x 1000	
CTC	400 x 400	
CTD	250 x 800	
CTH	280 x 1000	
CTJ	450 DIA.	
CTM	250 x 1200	
CTG	450 x 450	
CTX	600 x 600	
CTZ	350 x 450	

**- BUILDING B - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
<b>BLOCKWORK</b>		
BW1	190	LOAD BEARING, CORE FILLED REINFORCED BLOCKWORK
<b>CONCRETE WALL</b>		
BW1*	200	PIT WALL
BW2	250	PIT WALL
CW1	250	
CW2	300	
CW4	150	
CW5	500	
CW6	350	
CW7	280	
<b>RETAINING WALL</b>		
BRW1	250	
BRW2	190	CORE FILLED REINFORCED BLOCKWORK



**BUILDING B - FOUNDATION PLAN**

DESIGNED: Designer  
DRAWN: B. GIBSON/BILLS  
JOB MANAGER: M. ALLEN

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
1	EARLY WORKS TENDER	DB	KVA		20.12.24
2	FOR COORDINATION	CC	MA		23.06.25
3	FOR COORDINATION	CC	AE		16.10.25
4	FOR INFORMATION	CC	AE		11.12.25

CLIENT: **Uniting**

ARCHITECT: **plus**

ALL SETOUT TO ARCHITECT'S DRAWINGS. OPENINGS TO BE VERIFIED WITH ARCHITECT AND BUILDER BEFORE COMMENCING SHOP DRAWINGS OR SITE WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.

PLAN 1:1000 1:2000 1:5000 1:10000 1:20000

**NORTHROP**

Newcastle  
Level 1, 215 Pacific Highway, Charlestown N.S.W. 2290  
Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
ADR 61 1064 433 100

PROJECT: 27 TIRAL STREET, CHARLESTOWN

DRAWING TITLE: STRUCTURAL DRAWING BUILDING B - FOUNDATION PLAN

**NOT FOR CONSTRUCTION**

JOB NUMBER: NL200227  
PROJECT AND DRAWING NUMBER: NCE-ST-B-20-B0.01  
DRAWING SHEET SIZE: A0  
REVISION: 4

NOT DECLARED

**NOTES**

FOR STRUCTURAL SPECIFICATION NOTES REFER TO DRAWINGS 0-00-00.01 TO 0-00-00.03.

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UNLESS NOTED OTHERWISE, MINIMUM STAIR THROAT THICKNESS SHALL BE 200mm.

ALL CONCRETE THICKNESSES DENOTE MINIMUM STRUCTURAL THICKNESS.

ARCHITECTURAL HOBS/UPSTAND BALUSTRADES NOT INDICATED.

DOOR REBATES NOT SHOWN ON PLAN

UNLESS NOTED OTHERWISE, SLABS ON GROUND SHALL BE REINFORCED TOP & BOTTOM REINFORCEMENT TO BE CONFIRMED FOR TENDER ISSUE. CAST SLABS ON 0.2mm POLYTHENE MEMBRANE LAID OVER SUB BASE TO CIVIL ENGINEERS DETAILS. PROVIDE SAWN JOINTS AT MAX 5m SPAACING & SLIDING DOWEL JOINTS BETWEEN POURS.

THE BUILDER IS TO ENGAGE A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER TO CONFIRM THAT THE FOUNDING MATERIAL MEETS THE FOLLOWING REQUIREMENTS PRIOR TO PLACING OF REINFORCEMENT:

- COMPACTION LEVEL = 98% STANDARD
- BEARING CAPACITY OF FOUNDATION MATERIAL = 100 kPa

REFER TO CIVIL DRAWINGS FOR ALL PAVEMENT LEVELS, FALLS, STORMWATER PIT LEVELS & REBATE LOCATIONS.

PROVIDE TRIMMER BARS AT ALL RE ENTRANT CORNERS, SERVICE PENETRATIONS AND COLUMNS IN ACCORDANCE WITH SLAB TRIMMER DETAILS.

WATERPROOFING TO SPECIALIST CONTRACTORS. CONTACT PRESSURE BETWEEN SLAB & PILE (CAPFROM COLUMN LOADING) TO BE CONSIDERED: 0.3MPa MAX.

**LEGEND**

- DENOTES EXTENT OF 300mm THICK TANKED SLAB ON GROUND, REINFORCEMENT WITH TBC TOP & BOTTOM.
  - DENOTES PENETRATION/VOID IN SLAB, PROVIDE TRIMMER BARS
  - DENOTES SLAB STEP, REFER PLANS FOR VARIATIONS IN STEP HEIGHT
  - IJ DENOTES ISOLATION JOINT, REFER TO DETAILS FOR SPECIFICATION
  - SJ DENOTES SAWN JOINT, REFER TO DETAILS FOR SPECIFICATION
  - SDJ DENOTES SLIDING DOWEL JOINT, REFER TO DETAILS FOR SPECIFICATION
  - DJ DENOTES DOWEL JOINT, REFER TO DETAILS FOR SPECIFICATION
  - DKJ DENOTES DOWELED KEY JOINT, REFER TO DETAILS FOR SPECIFICATION
  - KJ DENOTES KEY JOINT, REFER TO DETAILS FOR SPECIFICATION
  - DENOTES NON LOAD-BEARING WALL, PROVIDE 300 WIDE x 400 DEEP FOOTING AT WALLS, REFER B-50-B1.10 FOR DETAIL
  - DENOTES LOAD-BEARING STRUCTURAL ELEMENT
  - +/0 DENOTES STRUCTURAL MEMBER OVER
  - +/-0 DENOTES STRUCTURAL MEMBER UNDER
- STRUCTURAL MEMBERS WITHOUT A SUFFIX (+/0 OR +/-0) SHALL BE READ AS OVER AND UNDER. REFER TO MEMBER SCHEDULE FOR ADDITIONAL INFORMATION.

**- BUILDING B - COLUMN TYPE SCHEDULE -**

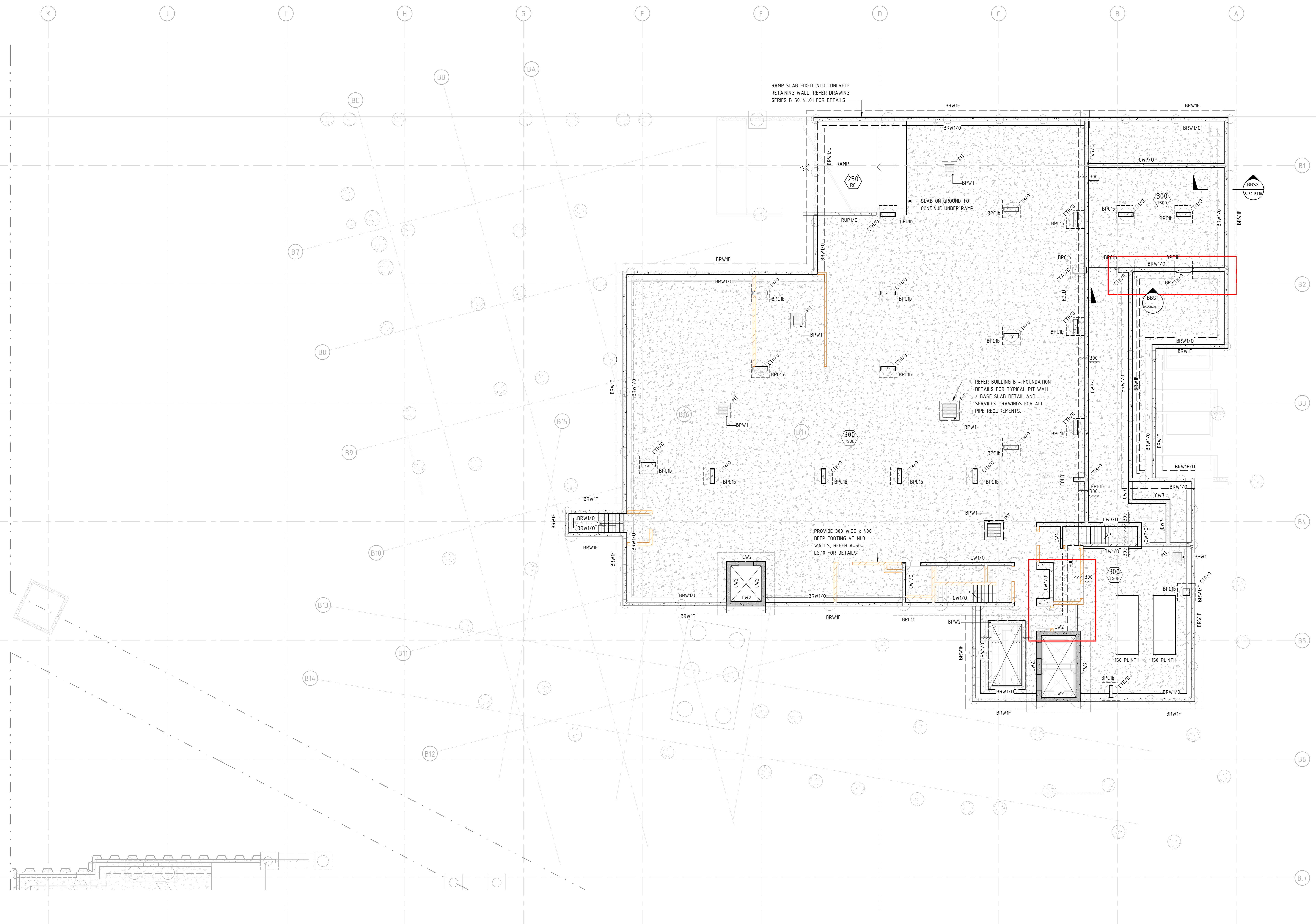
MARK	SIZE	COMMENTS
CONCRETE COLUMN		
CTD	250 x 800	
CTH	280 x 1000	
CTQ	450 x 450	

**- BUILDING B - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
<b>BLOCKWORK</b>		
BW1	190	LOAD BEARING, CORE FILLED REINFORCED BLOCKWORK
NLB	++varies++	NON-LOADBEARING BLOCKWORK
<b>CONCRETE WALL</b>		
BPW1	200	PIT WALL
BPW2	250	PIT WALL
CW1	250	
CW2	300	
CW4	150	
CW5	500	
CW7	280	
<b>RAMP UPSTAND WALL</b>		
RUP1	200	
<b>RETAINING WALL</b>		
BRW1	250	

**- BUILDING B - BASEMENT SCHEDULE -**

MARK	SIZE	COMMENTS
<b>PILE CAP</b>		
BPC1b	1200 x 1200 x 800 DEEP	
<b>STRIP FOOTING</b>		
BRWF	1200 WIDE x 600 DEEP	RETAINING WALL FOOTING



**BUILDING B - BASEMENT PLAN**

DRAWN: B. GIBSON/DBILLS JOB MANAGER: MALLEN DESIGNED: D. SAMBARKODY

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
3	FOR INFORMATION	BG	KVA		22.11.24
4	FOR INFORMATION	BG	KVA		29.11.24
5	EARLY WORKS TENDER	DB	KVA		20.12.24
6	FOR COORDINATION	CC	MA		23.06.25
7	FOR COORDINATION	CC	AE		14.10.25
8	FOR INFORMATION	CC	AE		11.12.25

CLIENT: **Uniting**

ARCHITECT: **plus**

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DRAWINGS NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED.

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PLAN

**NORTHROP**

Newcastle  
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Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
ADR 61 1064 433 100

PROJECT: **27 TIRAL STREET, CHARLESTOWN**

**NOT FOR CONSTRUCTION**

DRAWING TITLE: **STRUCTURAL DRAWING BUILDING B - BASEMENT PLAN**

JOB NUMBER: **NL200227**

PROJECT AND DRAWING NUMBER: **NCE-ST-B-20-B1.02**

DRAWING SHEET SIZE: **A0**

REVISION: **8**

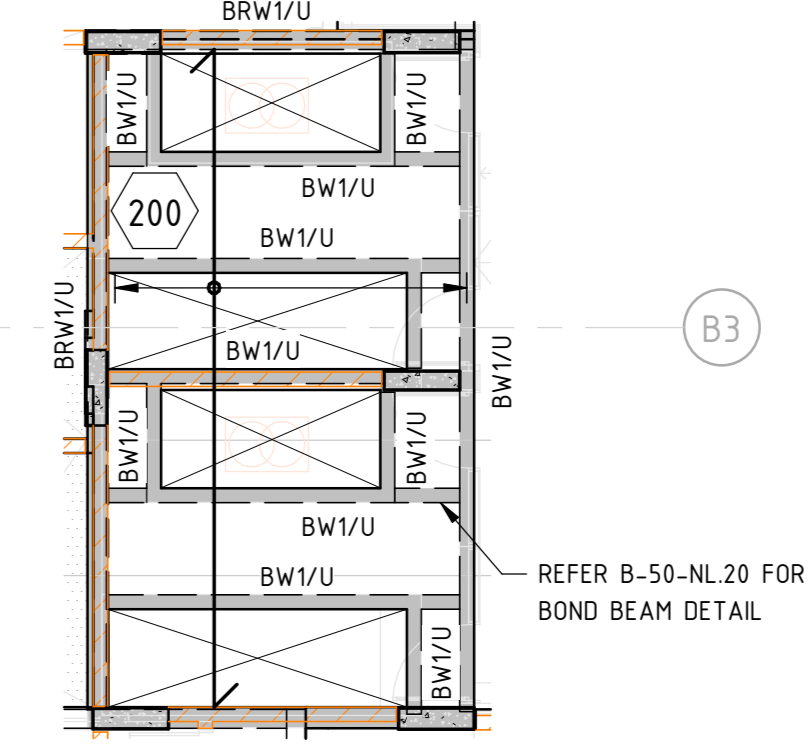
NOT DECLARED

**- BUILDING B - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
CONCRETE COLUMN		
CTA	250 x 1000	
CTAF	350 x 350	
CTAJ	400 x 900	
CTAR	380 x 1000	
CTC	400 x 400	
CTD	250 x 800	
CTH	280 x 1000	
CTJ	450 DIA	
CTM	250 x 1200	
CTO	450 x 450	
CTX	600 x 600	
CTZ	350 x 450	

**- BUILDING B - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
BLOCKWORK		
BW1	190	LOAD BEARING, CORE FILLED REINFORCED BLOCKWORK
NLB	+varies+	NON-LOADBEARING BLOCKWORK
CONCRETE WALL		
CW1	250	
CW2	300	
CW4	150	
CW5	500	
CW6	350	
CW7	280	
RUP1	200	RAMP UPSTAND WALL
RUP2	200	RAMP UPSTAND WALL
RETAINING WALL		
BRW1	250	
BRW2	190	CORE FILLED REINFORCED BLOCKWORK



**NOTES**

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ALL CONCRETE THICKNESSES DENOTE MINIMUM STRUCTURAL THICKNESS.

ARCHITECTURAL HOBS/UPSTAND BALUSTRADES NOT INDICATED.

UNLESS NOTED OTHERWISE, ALL WOOD SLABS SHALL BE 100mm THICK REINFORCED WITH S192 MESH TOP, CAST SLABS ON 300mm DEEP WAFFLE PODS PLACED ON 0.2mm POLYTHENE MEMBRANE ON A NOMINAL LEVELING LAYER OF SAND ON FIRM CIVIL NATURAL GROUND or CONTROLLED COMPACTED FILL. FILL MATERIAL TO BE APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACING.

UNLESS NOTED OTHERWISE, SLABS ON GROUND SHALL BE REINFORCED WITH S192 MESH TOP, CAST SLABS ON 0.2mm POLYTHENE MEMBRANE LAD OVER SUB BASE TO CIVIL ENGINEERS DETAILS. PROVIDE SAWN JOINTS AT MAX 5m SPACING & SLEWING DOWEL JOINTS BETWEEN POURS.

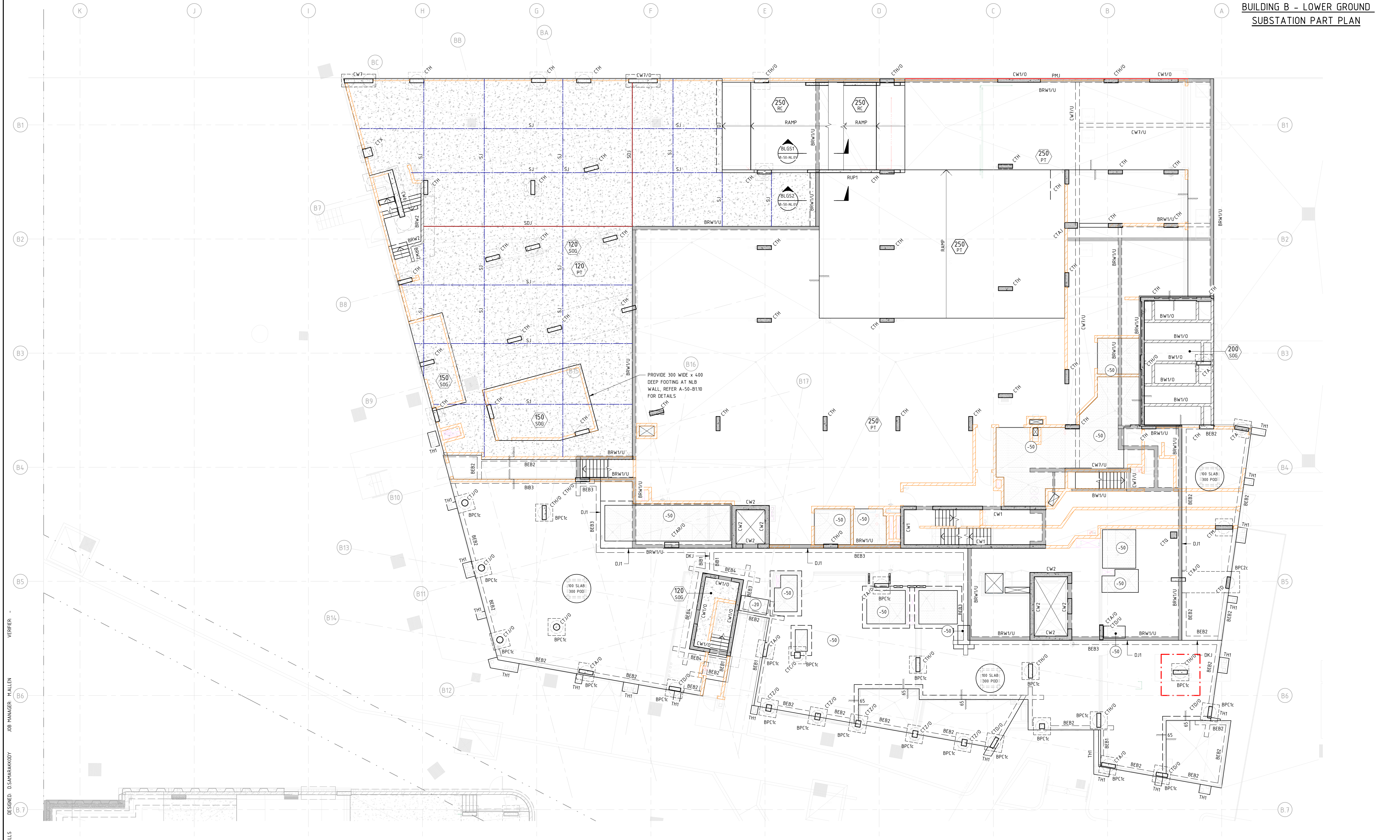
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- COMPACTION LEVEL = 95% STANDARD
- BEARING CAPACITY OF FOUNDATION MATERIAL = 100 kPa

REFER TO CIVIL DRAWINGS FOR ALL PAVEMENT LEVELS, FALLS, STORMWATER PIT LEVELS & REBATE LOCATIONS.

PROVIDE TRIMMER BARS AT ALL RE-ENTRANT CORNERS, SERVICE PENETRATIONS AND COLUMNS IN ACCORDANCE WITH SLAB TRIMMER DETAILS.

**BUILDING B - LOWER GROUND SUBSTATION PART PLAN**



**LEGEND**

- DENOTES DEPTH OF WAFFLE SLAB AND DEPTH OF WAFFLE PODS. ENSURE TO PROVIDE RIBS IN BOTH DIRECTIONS AT ALL RE-ENTRANT CORNERS & ENDS OF BEAMS
- DENOTES EXTENT OF 120mm THICK INFILL SLAB ON GROUND, REINFORCEMENT WITH ??? TOP & BOTTOM
- DENOTES EXTENT OF 150mm THICK INFILL SLAB ON GROUND, REINFORCEMENT WITH ??? TOP & BOTTOM
- DENOTES POST-TENSIONED SLAB THICKNESS. REFER PLANS FOR VARIATIONS IN DEPTH
- DENOTES THICKNESS/ SPAN & DIRECTION OF 10mm BMT BONDEK SLAB
- DENOTES POST-TENSIONED CONCRETE BEAM DEPTH
- DENOTES SETDOWN VALUE FOR WET AREAS
- DENOTES 180 MINUTE FRL REQUIRED, SLAB REINFORCEMENT AND PT AXIS DISTANCE TO BE ADJUSTED TO SUIT
- DENOTES PENETRATION/VOID IN SLAB, PROVIDE TRIMMER BARS
- DENOTES SLAB STEP, REFER PLANS FOR VARIATIONS IN STEP HEIGHT
- DENOTES ISOLATION JOINT, REFER TO DETAILS FOR SPECIFICATION
- DENOTES SAWN JOINT, REFER TO DETAILS FOR SPECIFICATION
- DENOTES SLIDING DOWEL JOINT, REFER TO DETAILS FOR SPECIFICATION
- DENOTES DOWEL JOINT, REFER TO DETAILS FOR SPECIFICATION
- DENOTES DOWELED KEY JOINT, REFER TO DETAILS FOR SPECIFICATION
- DENOTES KEY JOINT, REFER TO DETAILS FOR SPECIFICATION
- DENOTES TEMPORARY MOVEMENT JOINT. DETAILS & LOCATIONS TBC
- DENOTES PERMANENT MOVEMENT JOINT. DETAILS TBC
- DENOTES FOLD IN SUSPENDED SLAB. UNLESS NOTED OTHERWISE SLAB FOLDS SHALL BE 1000mm WIDE. FOLD DEPTHS VARY, UNLESS NOTED OTHERWISE FOLD DEPTH IS EQUAL TO ARCHITECTURAL STEP HEIGHT + FALLS TO FLOOR WASTE + MINIMUM THICKNESS OF SLAB ON LOW SIDE OF STEP.
- DENOTES NON LOAD-BEARING WALL
- DENOTES LOAD-BEARING STRUCTURAL ELEMENT
- DENOTES STRUCTURAL MEMBER OVER
- DENOTES STRUCTURAL MEMBER UNDER

STRUCTURAL MEMBERS WITHOUT A SUFFIX (+/0 OR +/-) SHALL BE READ AS OVER AND UNDER. REFER TO MEMBER SCHEDULE FOR ADDITIONAL INFORMATION.

**- BUILDING B - LOWER GROUND FLOOR SCHEDULE -**

MARK	SIZE	COMMENTS
CONCRETE BEAM		
BEB1	350W x 400D	EDGE BEAM
BEB2	300W x 400D	EDGE BEAM
BEB3	300W x 400D	EDGE BEAM
BEB4	300W x 400D	EDGE BEAM
BIB1	300W x 400D	INTERNAL BEAM
BIB3	300W x 400D	INTERNAL BEAM
PILE CAP		
BPC1c	1200 x 1200 x 800 DEEP	
THICKENING		
TH1		THICKENING

**BUILDING B - LOWER GROUND PLAN**

REVISIONS

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
1	FOR INFORMATION	BG		KVA	22.11.24
2	FOR INFORMATION	BG		KVA	29.11.24
3	FOR INFORMATION	DB		KVA	20.12.24
4	FOR COORDINATION	CC		MA	23.06.25
5	FOR COORDINATION	CC		AE	14.10.25
6	FOR INFORMATION	CC		AE	11.12.25

DESIGNED: D.SAMPARKODI JOB MANAGER: MALLEEN DRAWN: B.GEORGIADIS

CLIENT: **Uniting**

ARCHITECT: **plus**

ALL SETOUT TO ARCHITECT'S DRAWINGS. OPENINGS TO BE VERIFIED WITH ARCHITECT AND BUILDER BEFORE COMMENCING SHOP DRAWINGS OR OTHER WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSMITTED ELECTRONICALLY.

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Newcastle  
Level 1, 215 Pacific Highway, Charlestown N.S.W. 2290  
Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
ABN: 61 104 433 100

PROJECT: **27 TIRAL STREET, CHARLESTOWN**

DRAWING TITLE: **STRUCTURAL DRAWING BUILDING B - LOWER GROUND PLAN**

JOB NUMBER: **NL200227**

PROJECT AND DRAWING NUMBER: **NCE-ST-B-20-LG.01**

DRAWING SHEET SIZE: **A0**

REVISION: **9**

**NOT FOR CONSTRUCTION**

NOT DECLARED

**NOTES**

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 UNLESS NOTED OTHERWISE, MINIMUM STAIR THROAT THICKNESS SHALL BE 200mm.  
 ALL CONCRETE THICKNESSES DENOTE MINIMUM STRUCTURAL THICKNESS.  
 ARCHITECTURAL HOBS/UPSTAND BALUSTRADES NOT INDICATED.  
 DOOR REBATES NOT SHOWN ON PLAN.

**LEGEND**

- DENOTES MINIMUM POST-TENSIONED SLAB THICKNESS, REFER PLANS FOR VARIATIONS IN DEPTH
  - DENOTES MINIMUM POST-TENSIONED CONCRETE BEAM THICKNESS
  - DENOTES WAFFLE POD TOPPING SLAB OVER MAIN STRUCTURAL POST-TENSIONED SLAB, WAFFLE RIBS INDICATE EXTENT OF SLAB OVER.
  - DENOTES SLAB STEP, REFER TO ARCHITECTURAL DOCUMENTATION FOR SLAB SETOUT
  - DENOTES FOLD IN SUSPENDED SLAB, UNLESS NOTED OTHERWISE SLAB FOLDS SHALL BE 1000 WIDE. FOLD DEPTHS MAY VARY, REFER TO PLAN FOR SLAB DEPTH AT FOLDS.
  - DENOTES OVERFLOW
  - DENOTES HOB
  - DENOTES SETDOWN VALUE FOR WET AREAS, MAINTAIN SLAB DEPTHS AT WET AREAS, PROVIDE 500mm WIDE SOFFIT STEP AT WET AREAS, TYPICAL.
  - DENOTES MASS CONCRETE RAMP WITH SL92 MESH TOP
  - DENOTES PENETRATION/VOID IN SLAB, PROVIDE TRIMMER BARS
  - DENOTES RISER ZONE
  - DENOTES TEMPORARY MOVEMENT JOINT, DETAILS & LOCATIONS TBC
  - DENOTES PERMANENT MOVEMENT JOINT, DETAILS TBC
  - DENOTES NON-LOAD-BEARING WALL
  - DENOTES LOAD-BEARING STRUCTURAL ELEMENT
  - DENOTES STRUCTURAL MEMBER OVER
  - DENOTES STRUCTURAL MEMBER UNDER
- VERTICAL STRUCTURAL ELEMENTS WITHOUT A SUFFIX L+U OR +/U SHALL BE READ AS OVER & UNDER. REFER TO MEMBER SCHEDULE FOR ADDITIONAL INFORMATION.



**- BUILDING B - COLUMN TYPE SCHEDULE -**

MARK	SIZE	COMMENTS
CTA	250 x 1000	
CTAF	350 x 350	
CTAJ	400 x 900	
CTAR	380 x 1000	
CTC	400 x 400	
CTD	250 x 800	
CTH	280 x 1000	
CTJ	450 DIA	
CTM	250 x 1200	
CTO	450 x 450	
CTX	600 x 600	
CTZ	350 x 450	

**- BUILDING B - WALL TYPE SCHEDULE -**

MARK	THICKNESS	COMMENTS
BLOCKWORK		
BW3	190	LOW HEIGHT, CORE FILLED REINFORCED BLOCKWORK
NLB	+varies-	NON-LOADBEARING BLOCKWORK
CONCRETE WALL		
CW1	250	
CW2	300	
CW6	350	
CW7	280	
RAMP UPSTAND WALL		
RUP1	200	
RETAINING WALL		
BRW2	190	CORE FILLED REINFORCED BLOCKWORK

**BUILDING B - UPPER GROUND PLAN**

DRAWN: B. GIBSON/DIBILLS JOB MANAGER: MALLEN DESIGNED: D. SAMPARAKODY

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE
3	FOR INFORMATION	DB	DS		16.07.24
4	FOR INFORMATION	BG	KVA		22.11.24
5	FOR INFORMATION	BG	KVA		29.11.24
6	FOR COORDINATION	CC	MA		23.06.25
7	FOR COORDINATION	CC	AE		14.10.25
8	FOR INFORMATION	CC	AE		11.12.25

CLIENT: **Uniting**

ARCHITECT: **plus**

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**NORTHROP**

Newcastle  
 Level 1, 215 Pacific Highway, Charlestown N.S.W. 2290  
 Ph: (02) 4943 1777 Email: newcastle@northrop.com.au  
 ADR 61 104 433 100

PROJECT: **27 TIRAL STREET, CHARLESTOWN**

**NOT FOR CONSTRUCTION**

DRAWING TITLE: <b>STRUCTURAL DRAWING BUILDING B - UPPER GROUND PLAN</b>	JOB NUMBER: <b>NL200227</b>
	PROJECT AND DRAWING NUMBER: <b>NCE-ST-B-20-UG.01</b>
	DRAWING SHEET SIZE: <b>A0</b>
	REVISION: <b>8</b>