

ISO A1 594mm x 841mm

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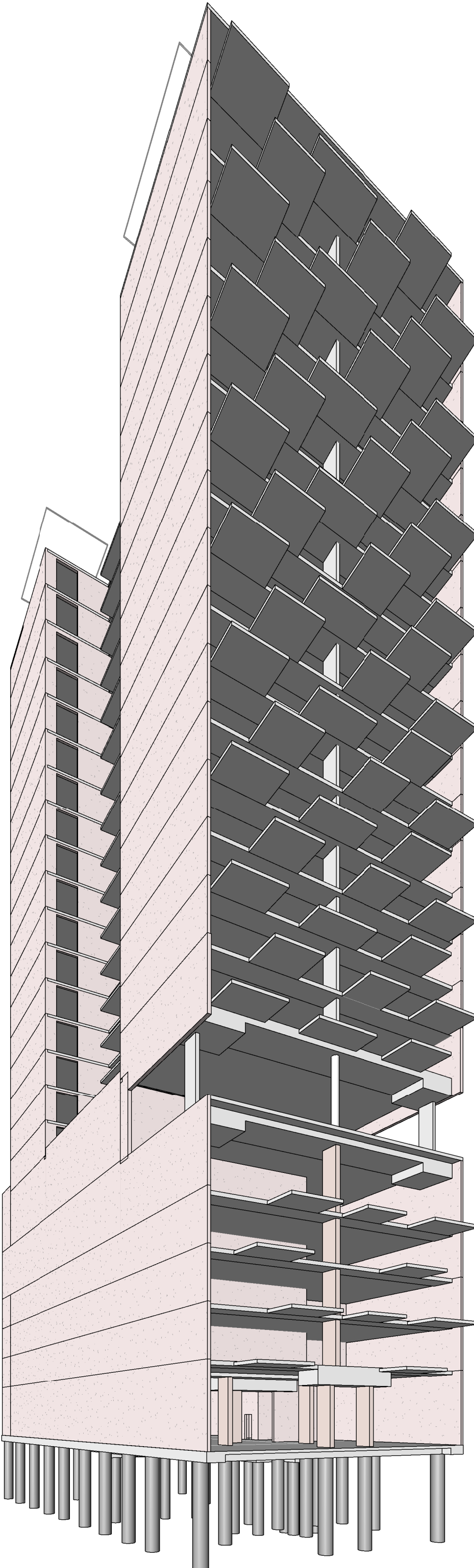
# ANGAS STREET APARTMENTS

## ADELAIDE

### STRUCTURAL DRAWINGS

#### STRUCTURAL DRAWING LIST

ST001	COVER SHEET & DRAWING INDEX
ST002	STRUCTURAL NOTES - SHEET 1
ST003	STRUCTURAL NOTES - SHEET 2
ST004	PILING & FOUNDATION PLAN
ST006	FOUNDATION DETAILS - SHEET 1
ST007	FOUNDATION DETAILS - SHEET 2
ST010	LEVEL 00 - GENERAL ARRANGEMENT PLAN
ST013	LEVEL 00 DETAILS- SHEET 1
ST020	COLUMN SCHEDULE
ST021	COLUMN DETAILS
ST025	PRECAST ELEVATIONS - SHEET 1
ST026	PRECAST ELEVATIONS - SHEET 2
ST027	PRECAST ELEVATIONS - SHEET 3
ST028	PRECAST ELEVATIONS - SHEET 4
ST029	PRECAST ELEVATIONS - SHEET 5
ST030	PRECAST ELEVATIONS - SHEET 6
ST031	PRECAST ELEVATIONS - SHEET 7
ST032	PRECAST ELEVATIONS - SHEET 8
ST033	PRECAST ELEVATIONS - SHEET 9
ST035	TYPICAL CONCRETE DETAILS- SHEET 1
ST036	TYPICAL CONCRETE DETAILS- SHEET 2
ST037	POST-TENSIONING DETAILS
ST038	MISCELLANEOUS DETAILS
ST040	LEVEL 01 GENERAL ARRANGEMENT
ST045	LEVEL 02 GENERAL ARRANGEMENT
ST050	LEVEL 03 & 04 GENERAL ARRANGEMENT
ST055	LEVEL 05 GENERAL ARRANGEMENT
ST060	LEVEL 06 GENERAL ARRANGEMENT
ST065	LEVELS 07, 09, 11, 13, 15,17 & 19 GENERAL ARRANGEMENT PLAN
ST070	LEVELS 08, 10, 12, 14, 16,18 & 20 GENERAL ARRANGEMENT PLAN
ST075	LEVEL 21 GENERAL ARRANGEMENT PLAN
ST080	LEVEL 22 GENERAL ARRANGEMENT PLAN
ST085	LEVEL 23 GENERAL ARRANGEMENT PLAN
ST090	LEVEL 24 GENERAL ARRANGEMENT PLAN
ST095	DETAILS - SHEET 1
ST096	DETAILS - SHEET 2
ST097	DETAILS - SHEET 3
ST098	DETAILS - SHEET 4



**AECOM**

PROJECT

ANGAS STREET APARTMENTS

CLIENT

PCD

Prepared for:

CONSULTANT

AECOM Australia Pty. Ltd.  
A.B.N. 20 093 846 925  
www.aecom.com

PRELIMINARY

PROJECT MANAGEMENT INITIALS

DL	CK	
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

P1	28.11.14	PRELIMINARY ISSUE
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60331940

SHEET TITLE

COVER SHEET & DRAWING INDEX

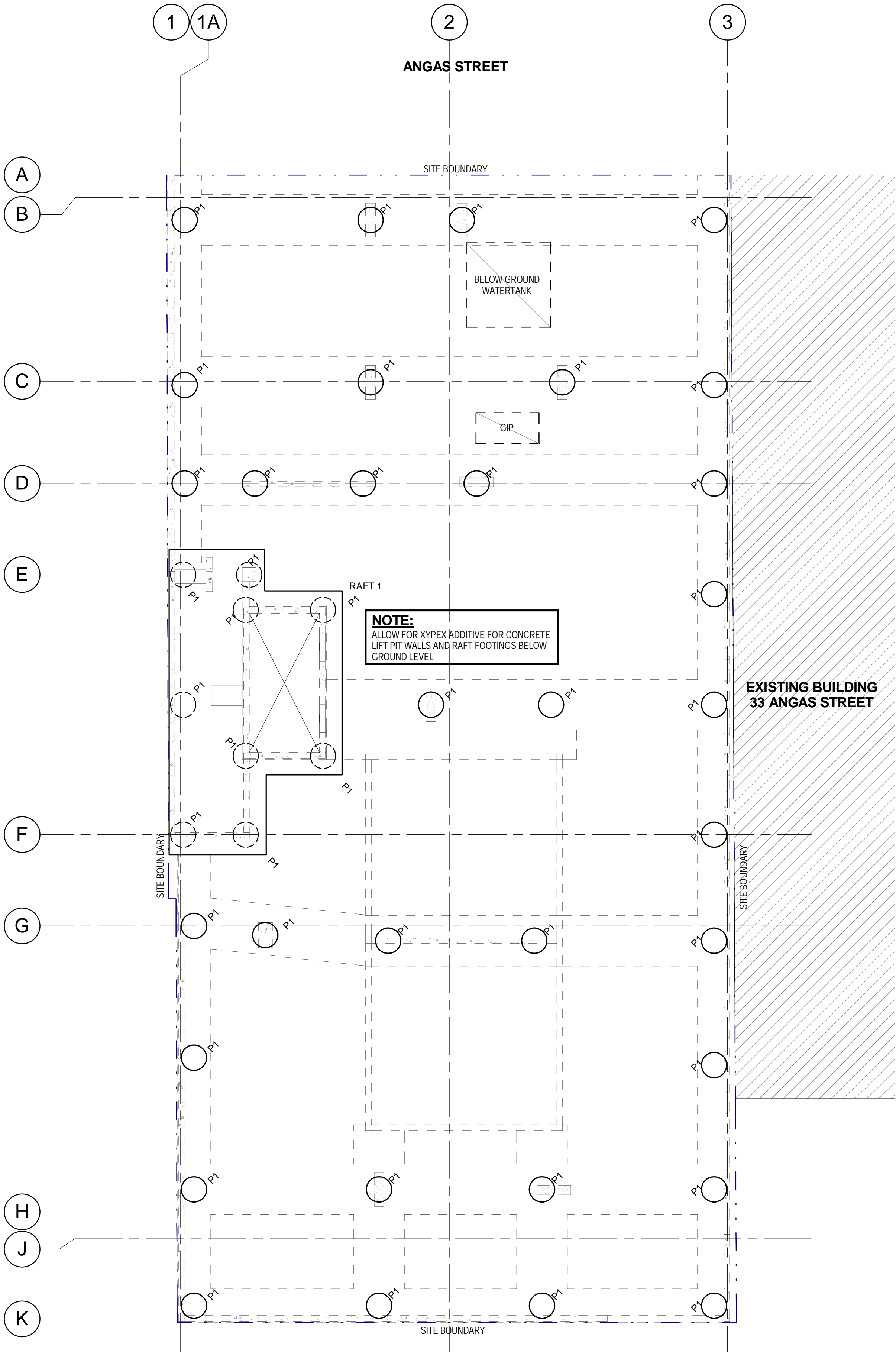
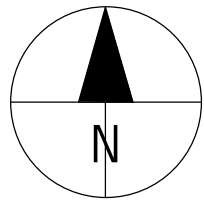
SHEET NUMBER

60331940-DRG-ST-001

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**PILING & FOUNDATION PLAN**

Scale: 1 : 100

PILE SCHEDULE	
PILE TYPE	PILE SIZE
P1	900 DIA.

RAFT SCHEDULE		
MARK	DEPTH	REINFORCEMENT
RAFT 1	600	TBC

**PILES:**

↓ DENOTES PILE TYPE

P1

1500kN

↓ DENOTES PILE GROUP DESIGN UNFACTORED COMPRESSION LOAD (kN) UNO

NOTE: (C) - DENOTES COMPRESSION LOAD  
(T) - DENOTES TENSION LOAD

(V) - DENOTES HORIZONTAL ULTIMATE BASE SHEAR LOAD PER PILE WHERE SHOWN ON PLAN  
THESE LOADS GOVERN OVER TYPICAL NOTE(S) PROVIDED BELOW

**DESIGN ULTIMATE LOAD FACTORS:**

- 1.35 (COMPRESSION)
- 1.5 (TENSION)

**HORIZONTAL BASE SHEAR (U.N.O):**

1. 25% OF SAFE WORKING LOAD NOMINATED ON PLAN TO ALL PILES SUPPORTING COLUMNS/GROUND FLOOR SLAB (WORKING LOAD).
2. 5% OF SAFE WORKING LOAD NOMINATED ON PILE TO ALL PILES UNDER RAFTS AND PRECAST WALLS (WORKING LOAD).

- \* SWL CAPACITIES TO BE VERIFIED BY THE CONTRACTOR IN ACCORDANCE WITH TESTING PROCEDURES IN ACCORDANCE WITH AS2159 REQUIREMENTS

**DESIGN CRITERIA:**

IMPORTANCE LEVEL = 3  
AS1170.2  
WIND VU = 46m/s  
TERRAIN CATEGORY 3  
AS1170.4 EARTHQUAKE  
HAZARD FACTOR Z = 0.10  
SITE SOIL SUB-CLASS = D<sub>6</sub>  
EARTHQUAKE DESIGN CATEGORY = III

**SERVICEABILITY CRITERIA:**

THE INSTALLED PILES SHALL CARRY THE DESIGN LOADS NOMINATED ON THE PLANS WITHIN THE REQUIRED SETTLEMENT LIMITS UNDER FULL SERVICE LOAD (WORKING):

- THE MAXIMUM SETTLEMENT AT THE TOP OF A PILE OR PILE GROUP SHALL NOT EXCEED 25mm.
- THE MAXIMUM SETTLEMENT AT THE TOE OF A PILE SHALL NOT EXCEED 5mm.
- THE MAXIMUM DIFFERENTIAL SETTLEMENT AT THE TOP OF ADJACENT PILE GROUPS SHALL NOT EXCEED 10mm.
- THE MAXIMUM DIFFERENTIAL SETTLEMENT AT THE TOP OF ADJACENT PILES WITHIN A GROUP SHALL NOT EXCEED 3mm.
- THE MAXIMUM DIFFERENTIAL SETTLEMENT AT THE TOP OF ADJACENT PILES WITHIN ASTRIP FOOTING SHALL NOT EXCEED 5mm OR DISTANCE /1000, WHICHEVER IS GREATER.

THE PILE LOADS NOMINATED ON THE DRAWING EXCLUDE PILE SELF WEIGHT AND DOWN DRAG.

**NOTES:**

1. REFER GEOTECHNICAL REPORT.
2. GEOTECHNICAL INVESTIGATION REPORT DATED: ???
3. UNLESS NOTED OTHERWISE THE CENTROIDS OF PILES/PILE GROUPS ARE TO BE CONCENTRIC WITH CENTERLINES OF COLUMNS/WALLS/BEAMS OVER.
4. REFER TO ARCHITECTS DRAWINGS FOR ALL DIMENSIONS/SET-OUT AND LOCATION INFORMATION.
5. PILE SPACING SHALL BE 2.5 TIMES PILE DIAMETER CENTRE-TO-CENTRE MINIMUM U.N.O
6. REFER TO PILING NOTES ON DRAWING S002.

**AECOM**

**PROJECT**

**ANGAS STREET  
APARTMENTS**

**CLIENT**

**PCD**

Prepared for:

**CONSULTANT**

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A.B.N. 20 093 846 925  
www.aecom.com

**PRELIMINARY**

**PROJECT MANAGEMENT INITIALS**

DL	CK	
DESIGNER	CHECKED	APPROVED

**ISSUE/REVISION**

P1	28.11.14	PRELIMINARY ISSUE
I/R	DATE	DESCRIPTION

**KEY PLAN**

**PROJECT NUMBER**

60331940

**SHEET TITLE**

PILING & FOUNDATION PLAN

**SHEET NUMBER**

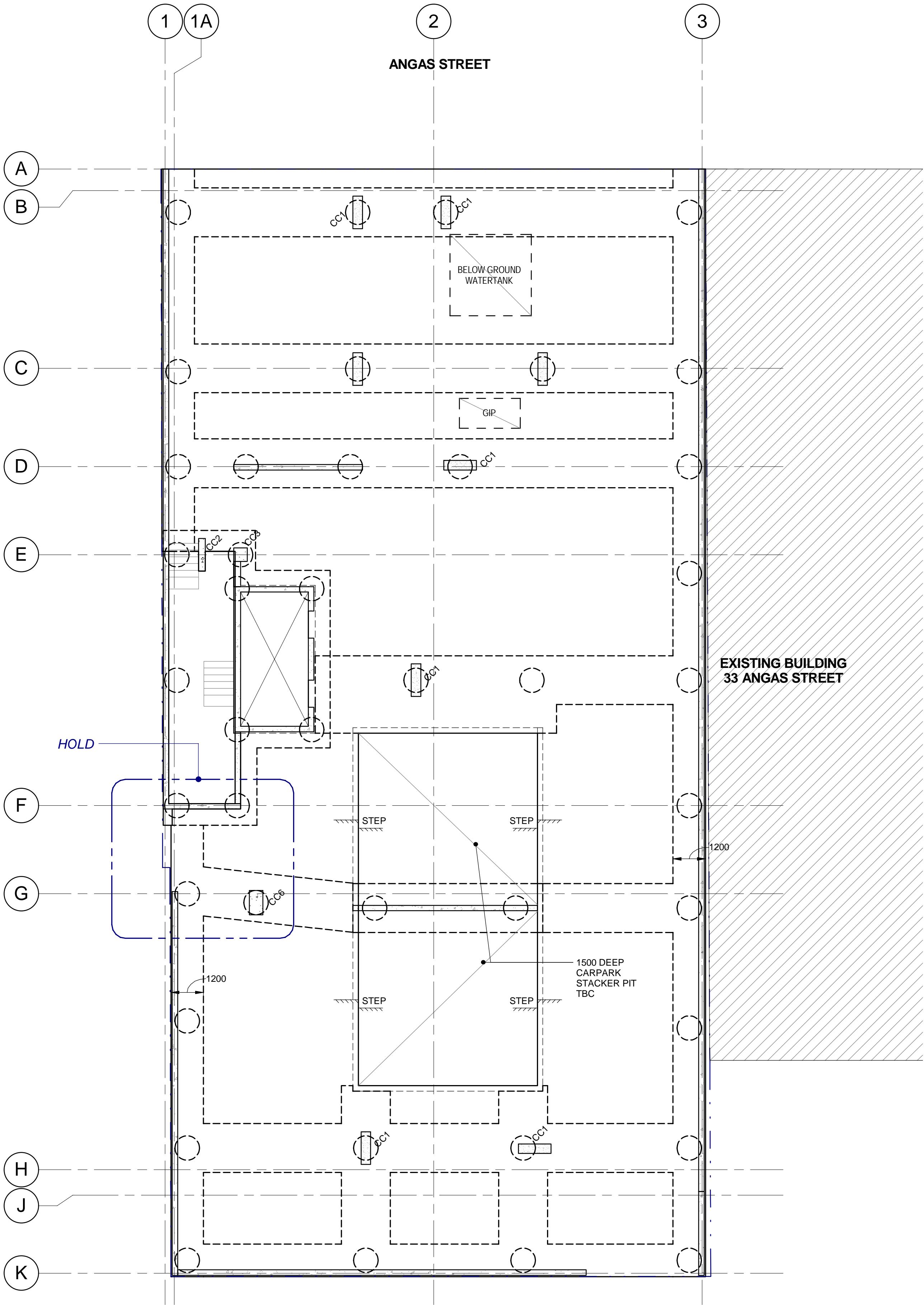
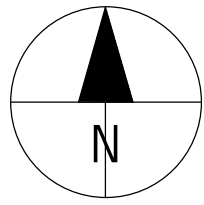
60331940-DRG-ST-004

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**LEVEL 00 PLAN**

Scale: 1 : 100

**LEGEND**

	DENOTES CONCRETE ELEMENT OVER
	DENOTES PRECAST WALL OVER
	DENOTES BLOCKWORK WALL OVER
	DENOTES SLAB ON GROUND MINIMUM THICKNESS
	DENOTES SLAB STEP. REFER ARCHITECT
	DENOTES SAWN JOINT. REFER DETAILS
	DENOTES DOWELLED JOINT. REFER DETAILS

**STRUCTURAL SIZES (U.N.O):**

SLAB: 180 THICK SUSPENDED SLAB ON GROUND  
1800Wx600 D. INTERNAL BEAMS  
1200Wx600D. EDGE BEAMS

CAST SLAB ON 0.2mm POLYTHENE MEMBRANE LAID OVER  
50mm NOMINAL LEVELLING LAYER OF FREE DRAINING  
COURSE SAND.

**CONCRETE GRADE:**

SLAB - N40 GRADE

**R.C. COLUMNS:**

REFER TO DRAWING ST-020

**PRECAST WALLS:**

REFER ELEVATIONS ON DRGS ST-025 TO ST-26

**DESIGN LOADING:**

PLANT	CAR STACKER	STORAGE AREA:
SDL : 1.5 kPa	SDL : 0.5 kPa	SDL : 0.5 kPa
LL : 5.0 kPa	LL : 7.5 kPa	LL : 5.0 kPa

**NOTES:**

- REFER TO STRUCTURAL NOTES ON DRAWINGS ST-002 & ST-003.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT UNO.
- ALL FLOOR PENETRATIONS NOT SHOWN ARE TO BE SUBMITTED FOR APPROVAL AND CO-ORDINATION WITH STRUCTURAL REQUIREMENTS.

**PROJECT**

**ANGAS STREET  
APARTMENTS**

**CLIENT**

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**PRELIMINARY**

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DESIGNER	CHECKED	APPROVED

**ISSUE/REVISION**

P1	28.11.14	PRELIMINARY ISSUE
I/R	DATE	DESCRIPTION

**KEY PLAN**

**PROJECT NUMBER**

60331940

**SHEET TITLE**

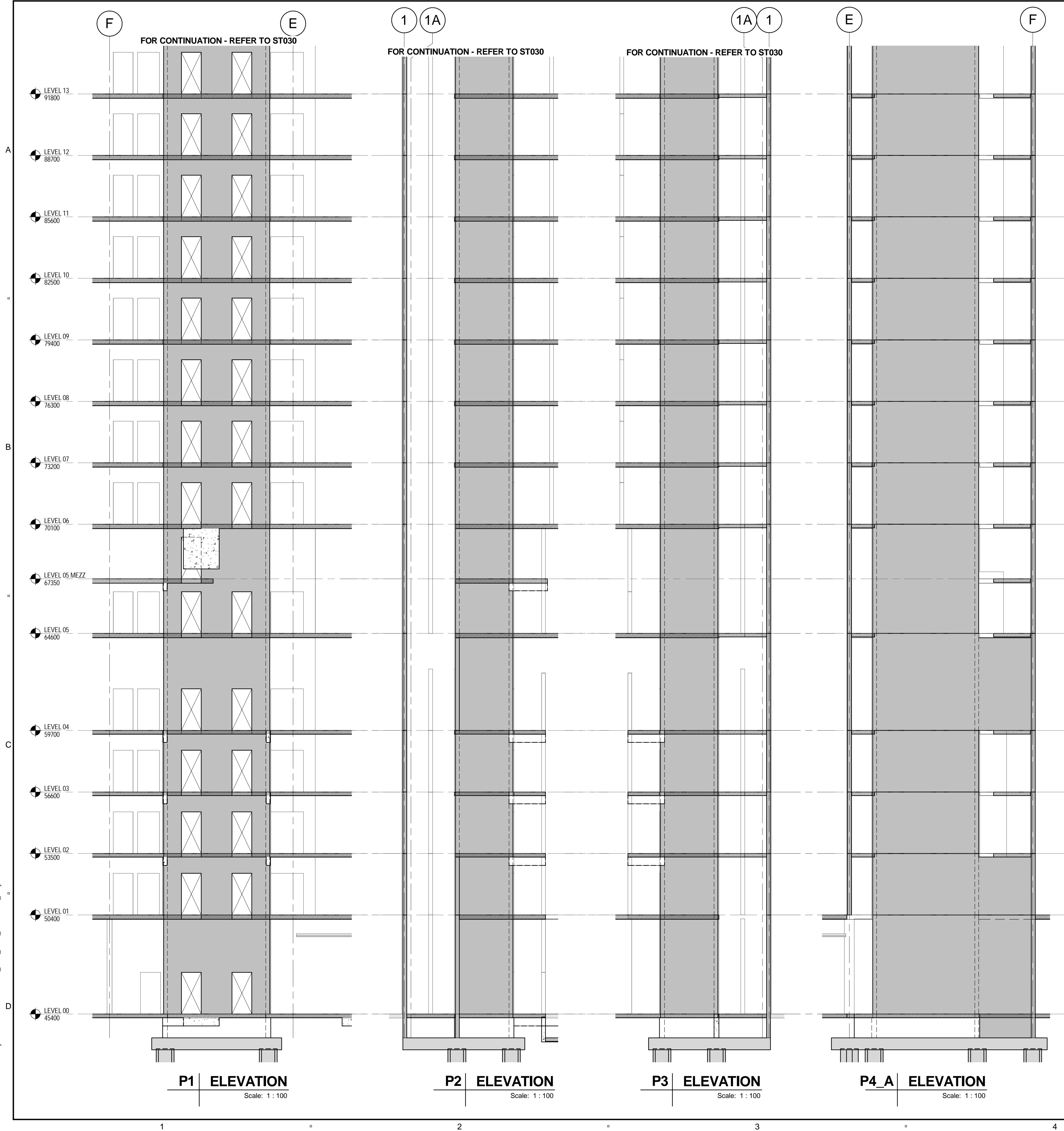
LEVEL 00 - GENERAL  
ARRANGEMENT PLAN

**SHEET NUMBER**

60331940-DRG-ST-010

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**PRECAST WALL NOTES:**  
PANELS TO BE 200 THICK UNO ON ELEVATION

**CONCRETE GRADE (U.N.O):**  
F<sub>c</sub> = 40 MPa

**LEGEND:**

- DENOTES DOWEL LOCATIONS  
ALL DOWELS TO BE N24 U.N.O.
- DENOTES SLAB INTERFACE TO PRECAST PANEL  
REFER TO DRAWING ST-034 FOR DETAILS
- DENOTES TYPICAL STITCH PLATE DETAIL  
REFER TO DRAWING ST-034 FOR DETAILS  
ALL STITCH PLATES TO BE SP2 U.N.O.

**NOTE:**  
ALL PANEL DIMENSIONS AND LEVELS REPRESENTED ON THE STRUCTURAL DRAWINGS ARE INDICATIVE ONLY AND FOR THE PURPOSED OF DEFINING MINIMUM STRUCTURAL REQUIREMENTS ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR SETOUT DIMENSIONS

INTERNAL PANEL COVER = 30mm  
INTERNAL PANEL COVER IF RETAINING EARTH = 40mm  
EXTERNAL PANEL COVER = 40mm

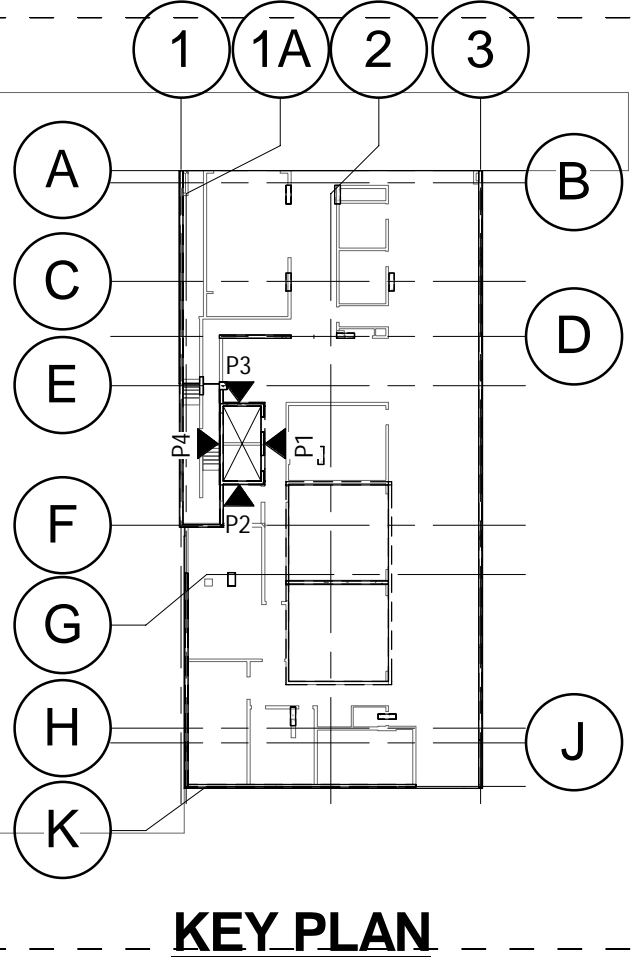


PROJECT  
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**KEY PLAN**

**PRELIMINARY**

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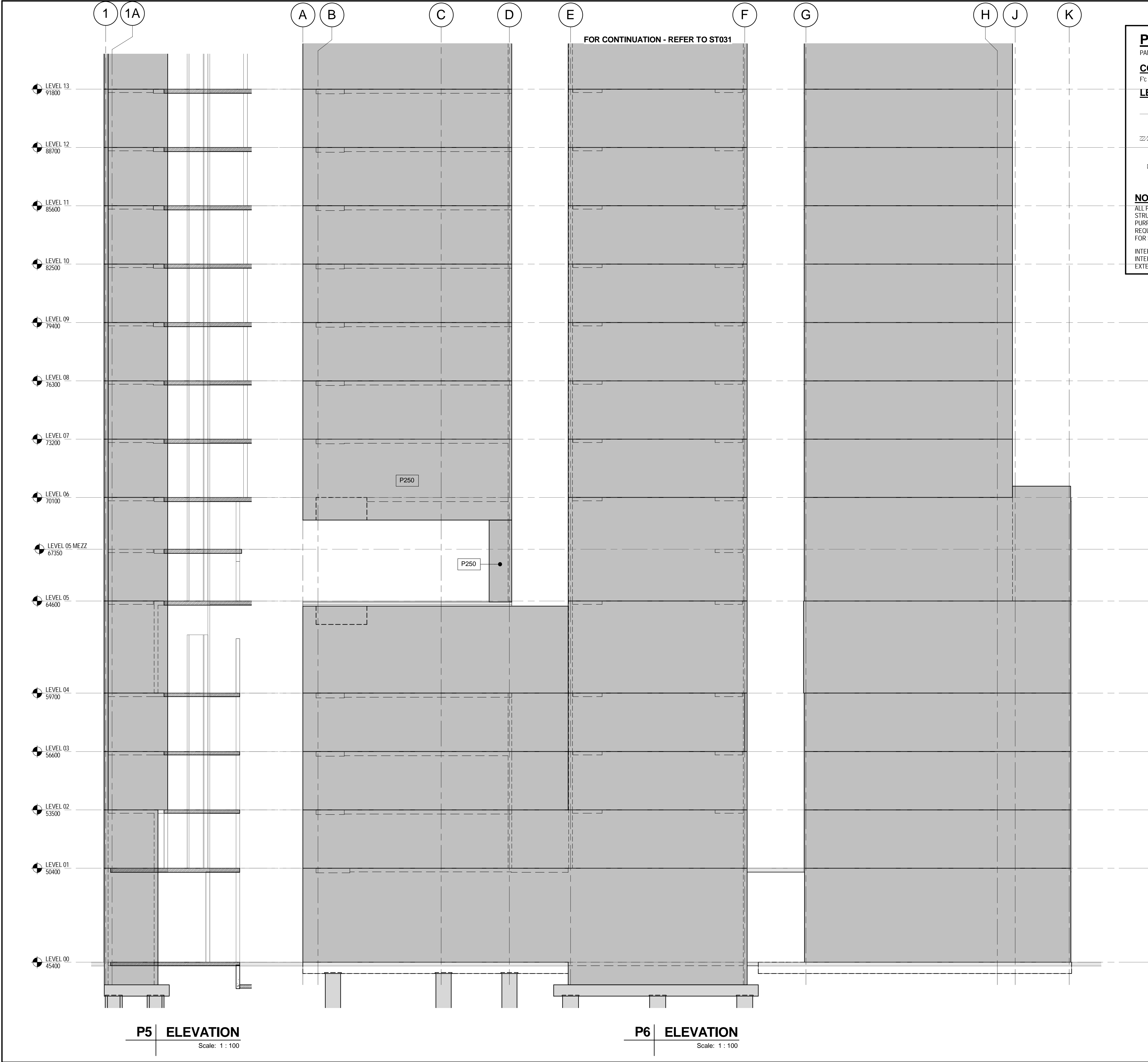
**SHEET TITLE**  
PRECAST ELEVATIONS - SHEET 1

**SHEET NUMBER**  
60331940-DRG-ST-025

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**PRECAST WALL NOTES:**  
PANELS TO BE 200 THICK UNO ON ELEVATION

**CONCRETE GRADE (U.N.O.):**  
F<sub>c</sub> = 40 MPa

**LEGEND:**

- DENOTES DOWEL LOCATIONS  
ALL DOWELS TO BE N24 U.N.O.
- DENOTES SLAB INTERFACE TO PRECAST PANEL  
REFER TO DRAWING ST-034 FOR DETAILS
- DENOTES TYPICAL STITCH PLATE DETAIL  
REFER TO DRAWING ST-034 FOR DETAILS  
ALL STITCH PLATES TO BE SP2 U.N.O.

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INTERNAL PANEL COVER IF RETAINING EARTH = 40mm  
EXTERNAL PANEL COVER = 40mm



PROJECT

ANGAS STREET  
APARTMENTS

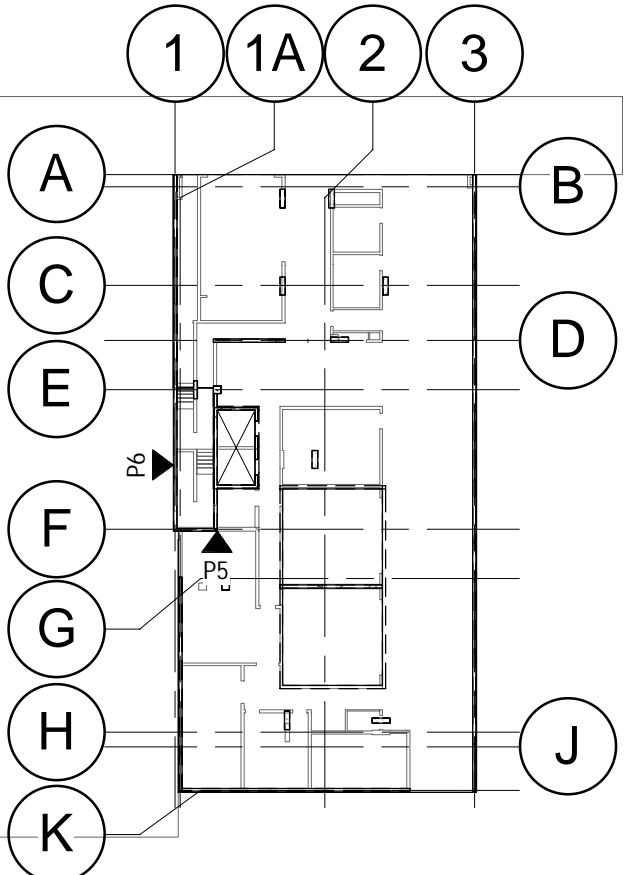
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PROJECT MANAGEMENT INITIALS

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ISSUE/REVISION

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KEY PLAN

PROJECT NUMBER

60331940

SHEET TITLE

PRECAST ELEVATIONS - SHEET 2

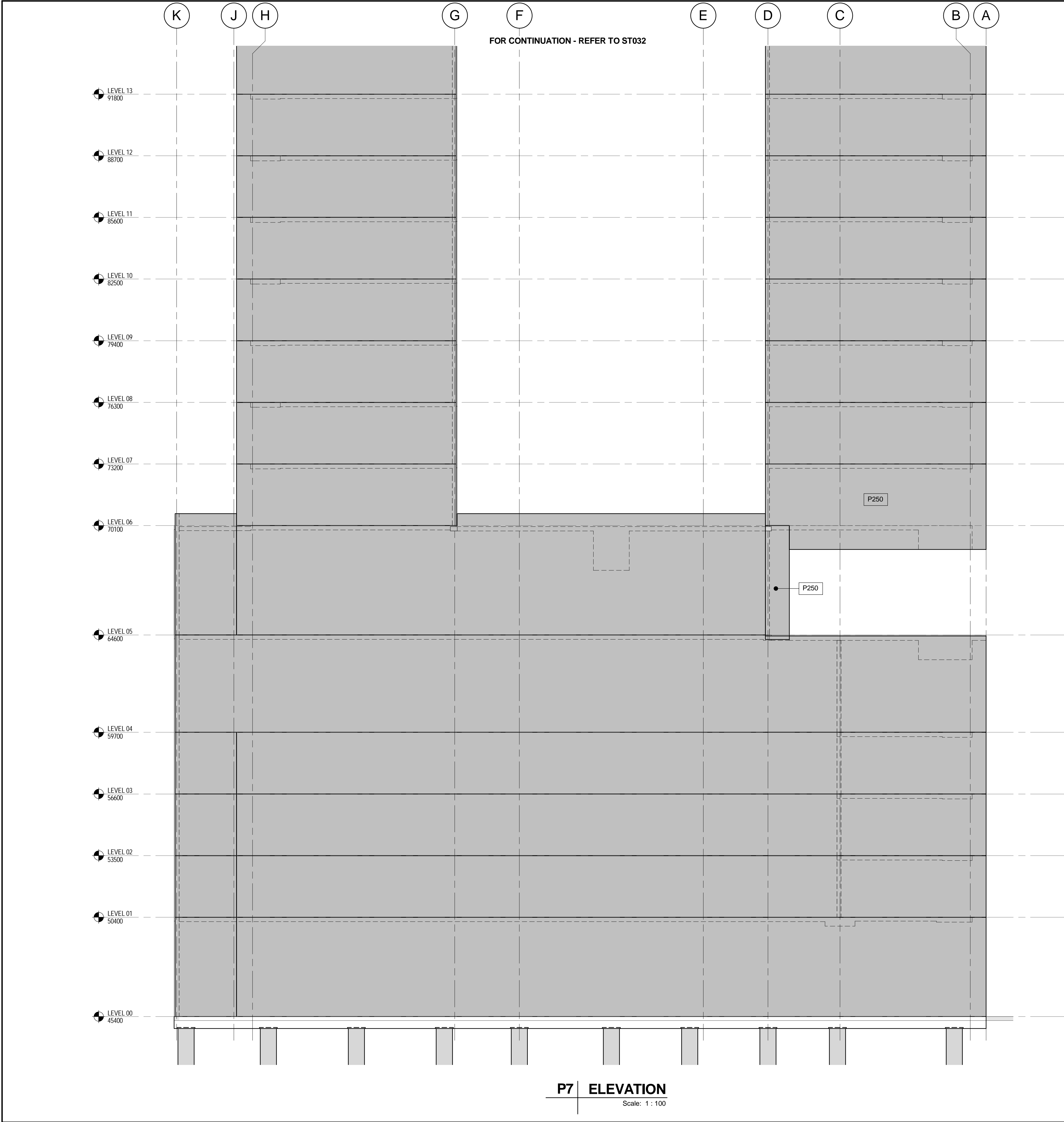
SHEET NUMBER

60331940-DRG-ST-026



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**P7 | ELEVATION**  
Scale: 1 : 100

**PRECAST WALL NOTES:**  
PANELS TO BE 200 THICK UNO ON ELEVATION

**CONCRETE GRADE (U.N.O):**  
F<sub>c</sub> = 40 MPa

**LEGEND:**

- DENOTES DOWEL LOCATIONS  
ALL DOWELS TO BE N24 U.N.O.
- DENOTES SLAB INTERFACE TO PRECAST PANEL  
REFER TO DRAWING ST-034 FOR DETAILS
- DENOTES TYPICAL STITCH PLATE DETAIL  
REFER TO DRAWING ST-034 FOR DETAILS  
ALL STITCH PLATES TO BE SP2 U.N.O.

**NOTE:**  
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INTERNAL PANEL COVER = 30mm  
INTERNAL PANEL COVER IF RETAINING EARTH = 40mm  
EXTERNAL PANEL COVER = 40mm

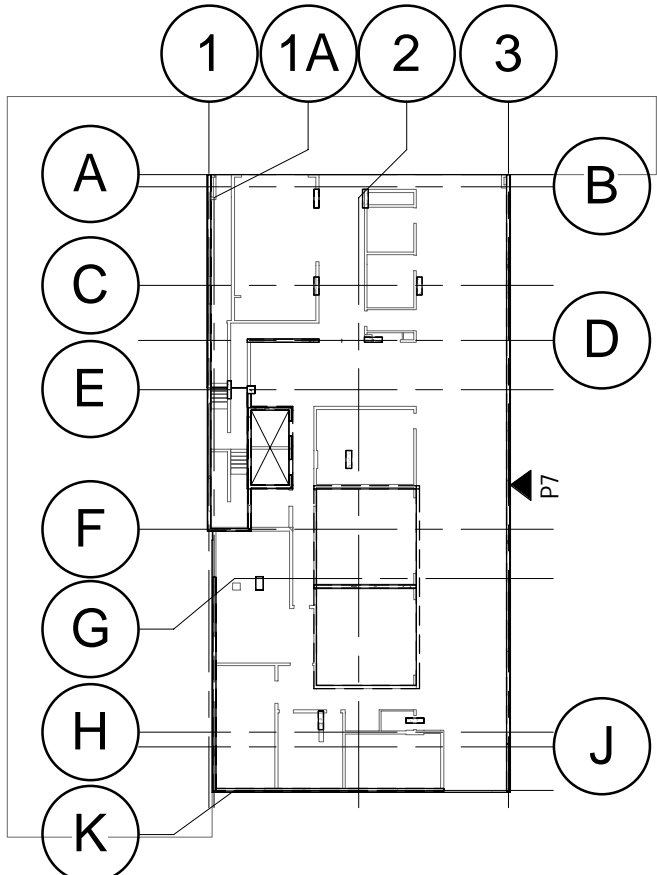


PROJECT  
**ANGAS STREET  
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KEY PLAN

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60331940

SHEET TITLE  
PRECAST ELEVATIONS - SHEET 3

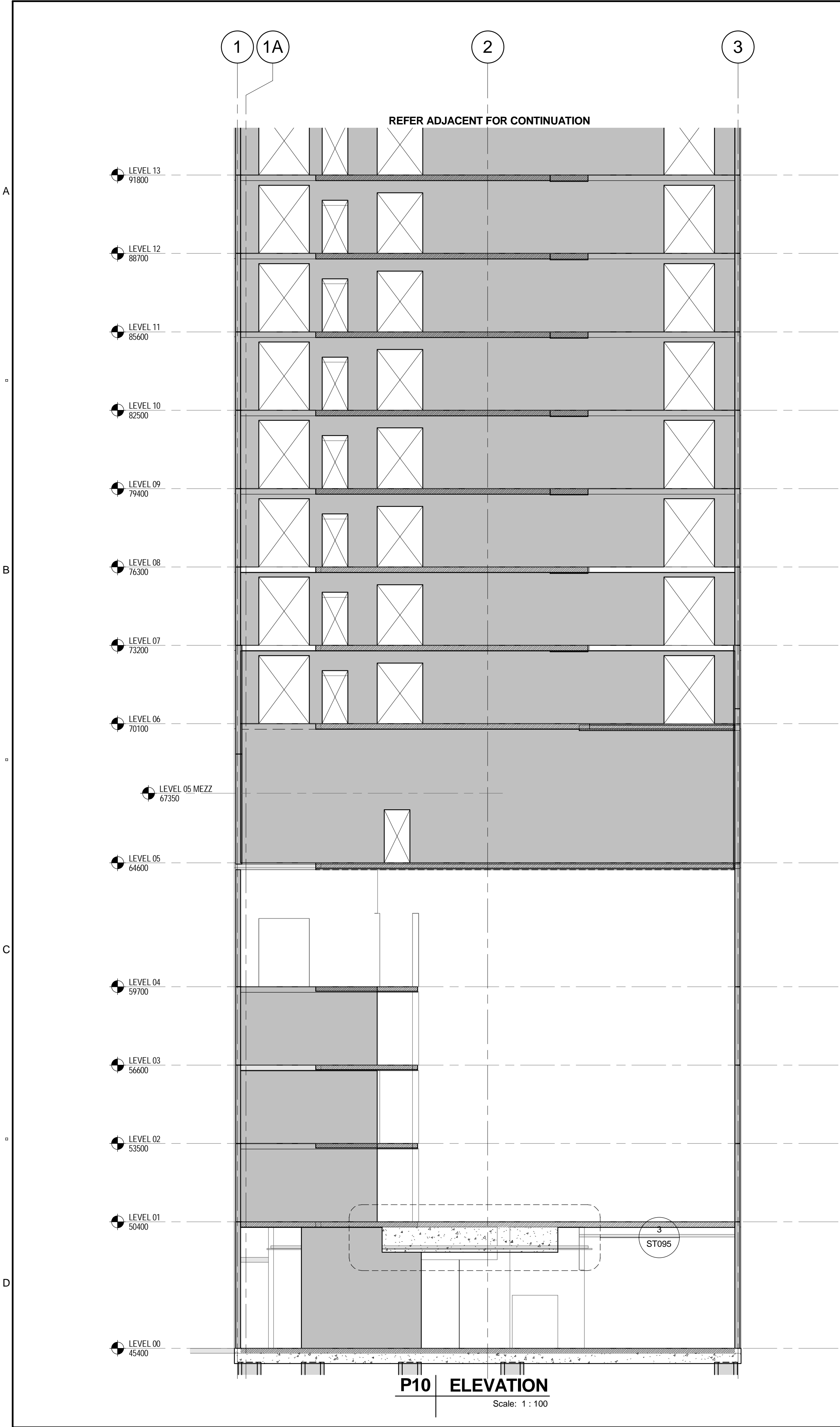
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**PRECAST WALL NOTES:**  
PANELS TO BE 200 THICK UNO ON ELEVATION

**CONCRETE GRADE (U.N.O.):**  
F<sub>c</sub> = 40 MPa

**LEGEND:**

⊕ DENOTES DOWEL LOCATIONS  
ALL DOWELS TO BE N24 U.N.O.

||||| DENOTES SLAB INTERFACE TO PRECAST PANEL  
REFER TO DRAWING ST-034 FOR DETAILS

⊞ DENOTES TYPICAL STITCH PLATE DETAIL  
REFER TO DRAWING ST-034 FOR DETAILS  
ALL STITCH PLATES TO BE SP2 U.N.O.

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INTERNAL PANEL COVER IF RETAINING EARTH = 40mm  
EXTERNAL PANEL COVER = 40mm

# AECOM

PROJECT

## ANGAS STREET APARTMENTS

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**KEY PLAN**

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**KEY PLAN**

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60331940

**SHEET TITLE**  
PRECAST ELEVATIONS - SHEET 5

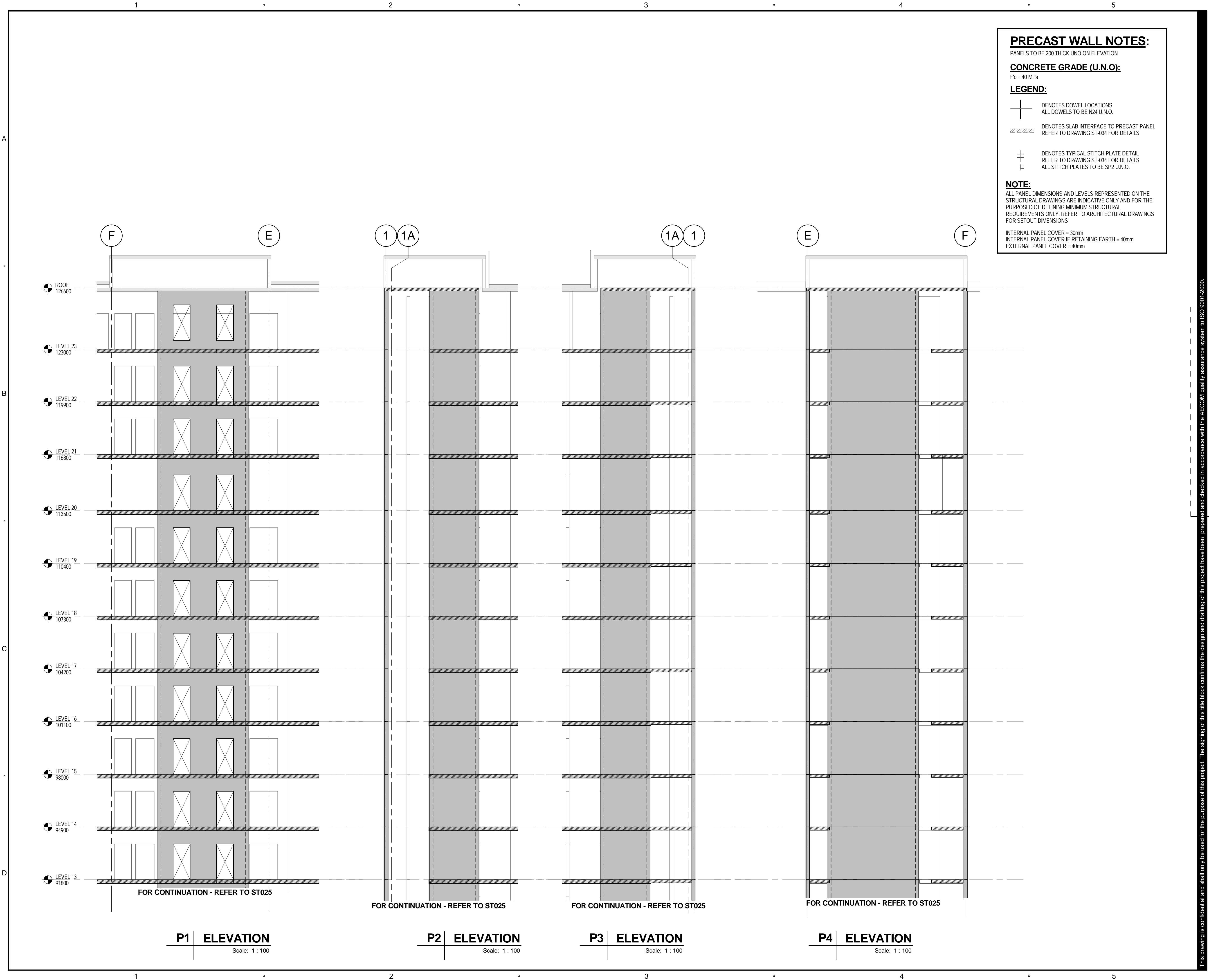
**SHEET NUMBER**  
60331940-DRG-ST-029

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PROJECT

ANGAS STREET  
APARTMENTS

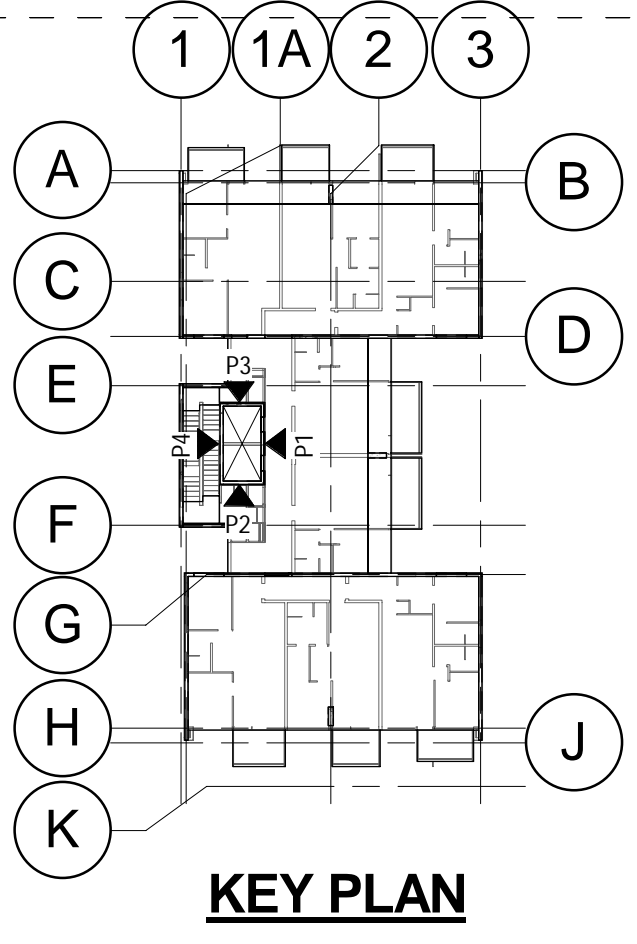
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KEY PLAN

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KEY PLAN

PROJECT NUMBER

60331940

SHEET TITLE

PRECAST ELEVATIONS - SHEET 6

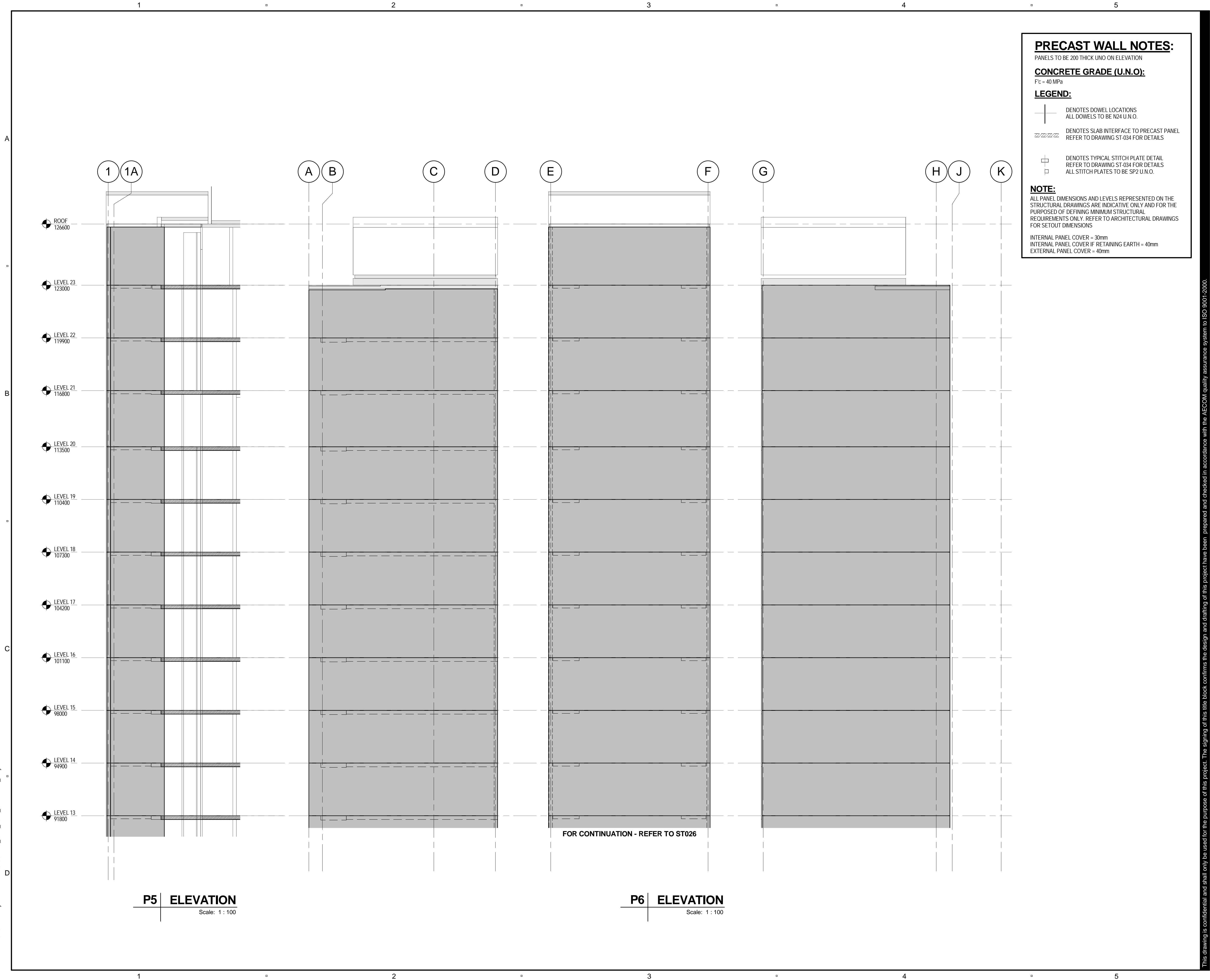
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PROJECT

## ANGAS STREET APARTMENTS

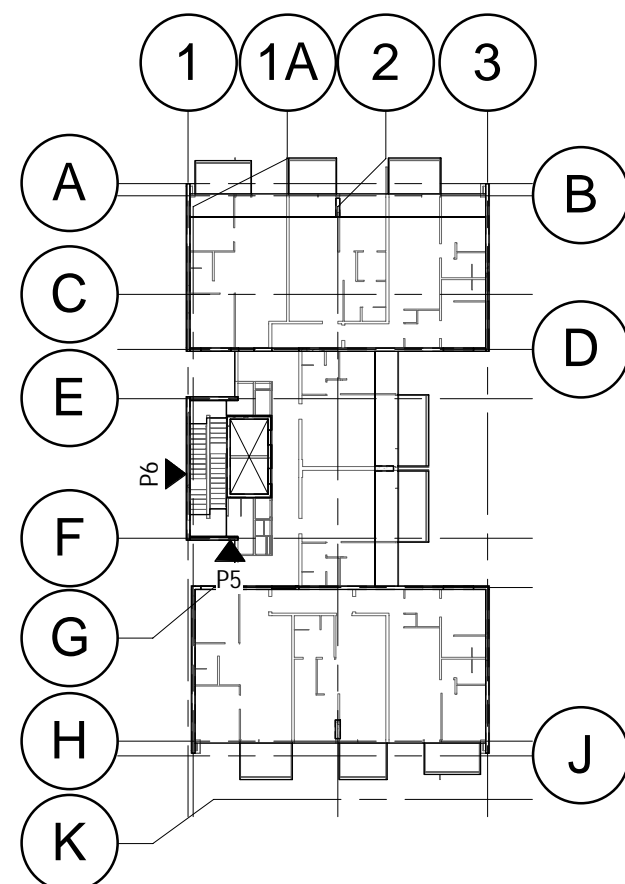
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### KEY PLAN

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SHEET TITLE

PRECAST ELEVATIONS - SHEET 7

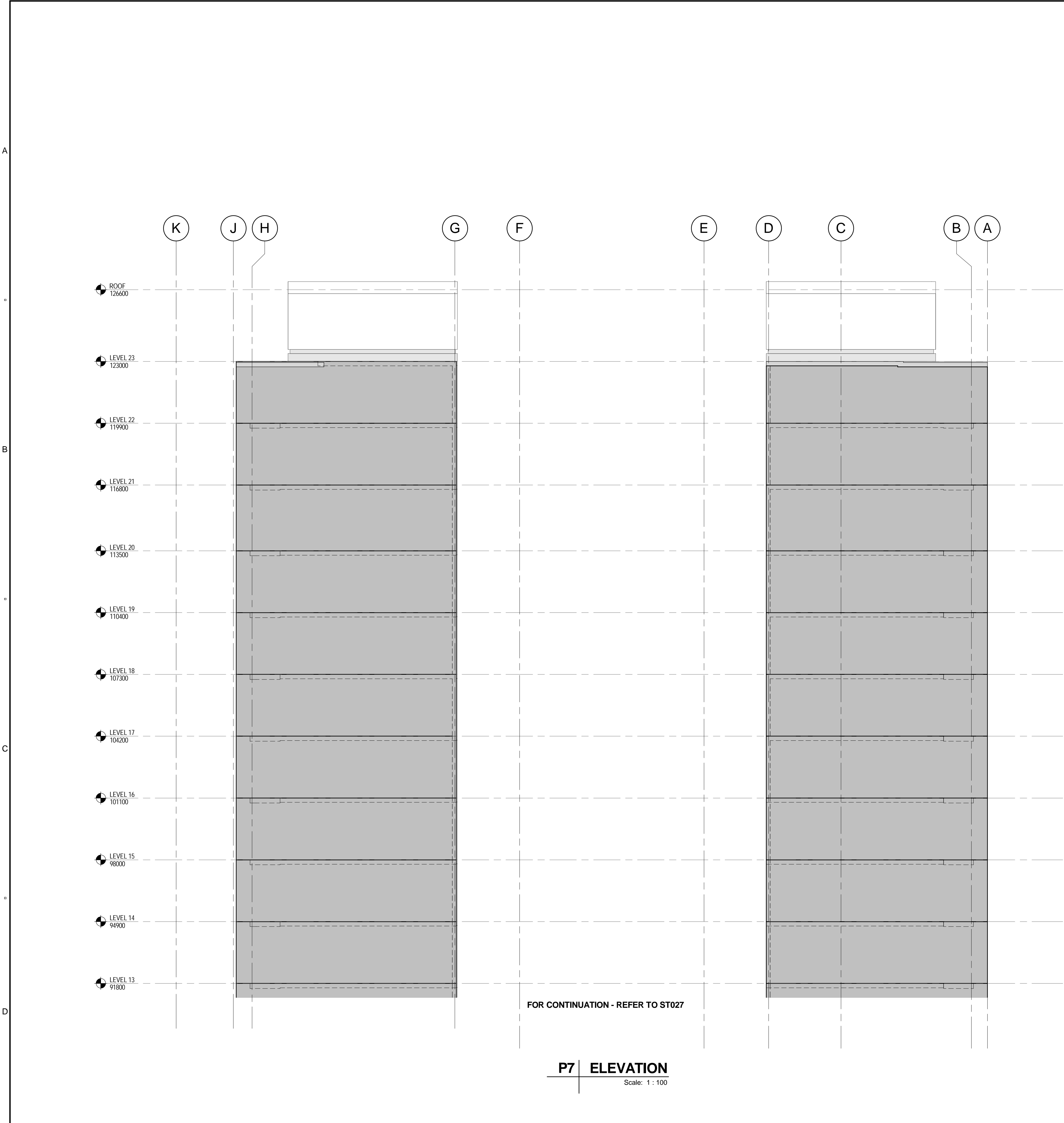
SHEET NUMBER

60331940-DRG-ST-031



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**PRECAST WALL NOTES:**  
PANELS TO BE 200 THICK UNO ON ELEVATION

**CONCRETE GRADE (U.N.O):**  
F<sub>c</sub> = 40 MPa

**LEGEND:**

—+— DENOTES DOWEL LOCATIONS  
ALL DOWELS TO BE N24 U.N.O.

||||| DENOTES SLAB INTERFACE TO PRECAST PANEL  
REFER TO DRAWING ST-034 FOR DETAILS

□ DENOTES TYPICAL STITCH PLATE DETAIL  
REFER TO DRAWING ST-034 FOR DETAILS  
ALL STITCH PLATES TO BE SP2 U.N.O.

**NOTE:**  
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FOR SETOUT DIMENSIONS

INTERNAL PANEL COVER = 30mm  
INTERNAL PANEL COVER IF RETAINING EARTH = 40mm  
EXTERNAL PANEL COVER = 40mm



PROJECT

ANGAS STREET  
APARTMENTS

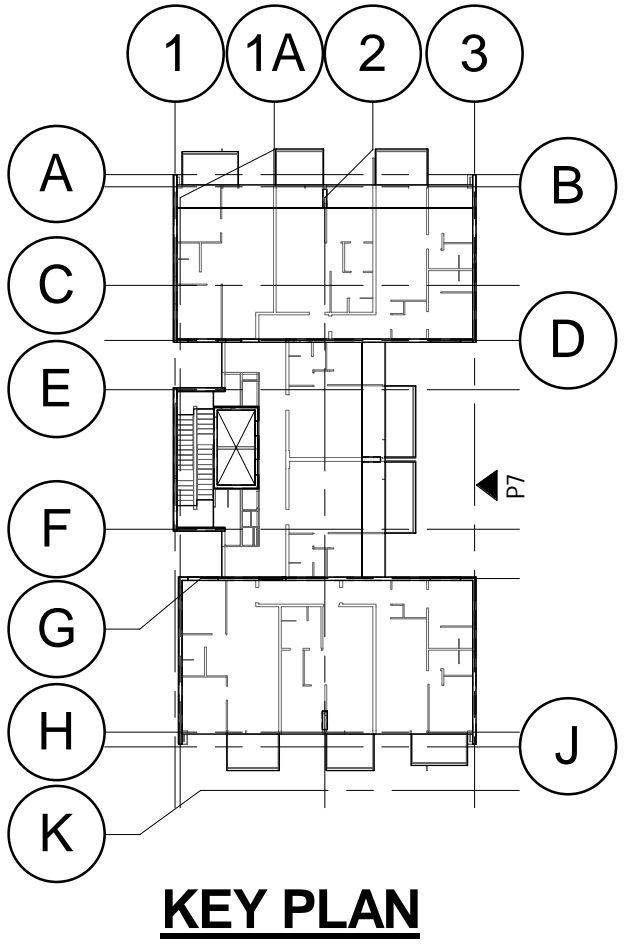
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P1	29.11.14	PRELIMINARY ISSUE
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KEY PLAN

PROJECT NUMBER

60331940

SHEET TITLE

PRECAST ELEVATIONS - SHEET 8

SHEET NUMBER

60331940-DRG-ST-032

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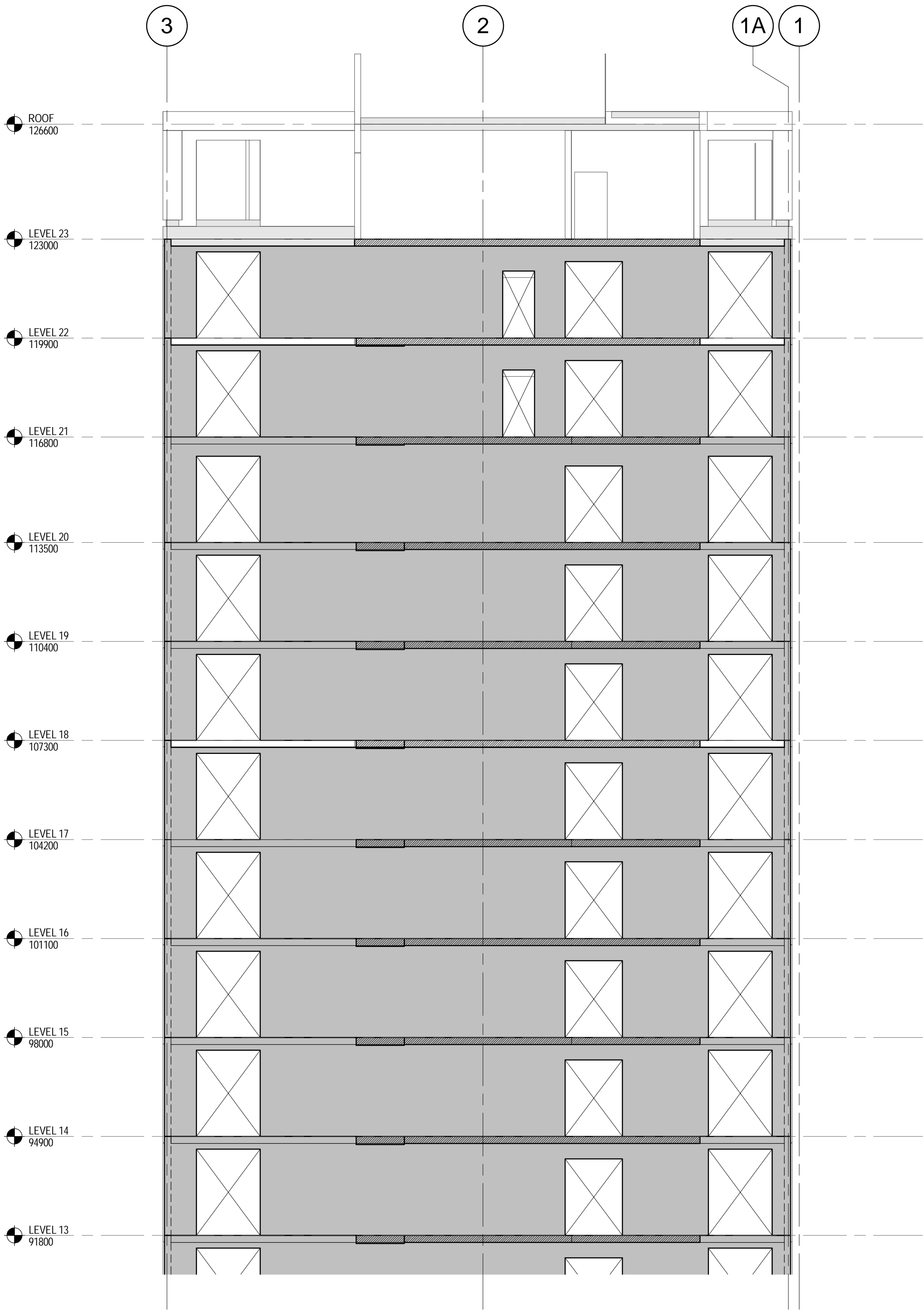
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A

B

C

D



**P9 | ELEVATION**  
Scale: 1 : 100

**PRECAST WALL NOTES:**

PANELS TO BE 200 THICK UNO ON ELEVATION

**CONCRETE GRADE (U.N.O):**

F<sub>c</sub> = 40 MPa

**LEGEND:**

DENOTES DOWEL LOCATIONS  
ALL DOWELS TO BE N24 U.N.O.

DENOTES SLAB INTERFACE TO PRECAST PANEL  
REFER TO DRAWING ST-034 FOR DETAILS

DENOTES TYPICAL STITCH PLATE DETAIL  
REFER TO DRAWING ST-034 FOR DETAILS  
ALL STITCH PLATES TO BE SP2 U.N.O.

**NOTE:**

ALL PANEL DIMENSIONS AND LEVELS REPRESENTED ON THE  
STRUCTURAL DRAWINGS ARE INDICATIVE ONLY AND FOR THE  
PURPOSED OF DEFINING MINIMUM STRUCTURAL  
REQUIREMENTS ONLY. REFER TO ARCHITECTURAL DRAWINGS  
FOR SETOUT DIMENSIONS

INTERNAL PANEL COVER = 30mm  
INTERNAL PANEL COVER IF RETAINING EARTH = 40mm  
EXTERNAL PANEL COVER = 40mm

**AECOM**

**PROJECT**

**ANGAS STREET  
APARTMENTS**

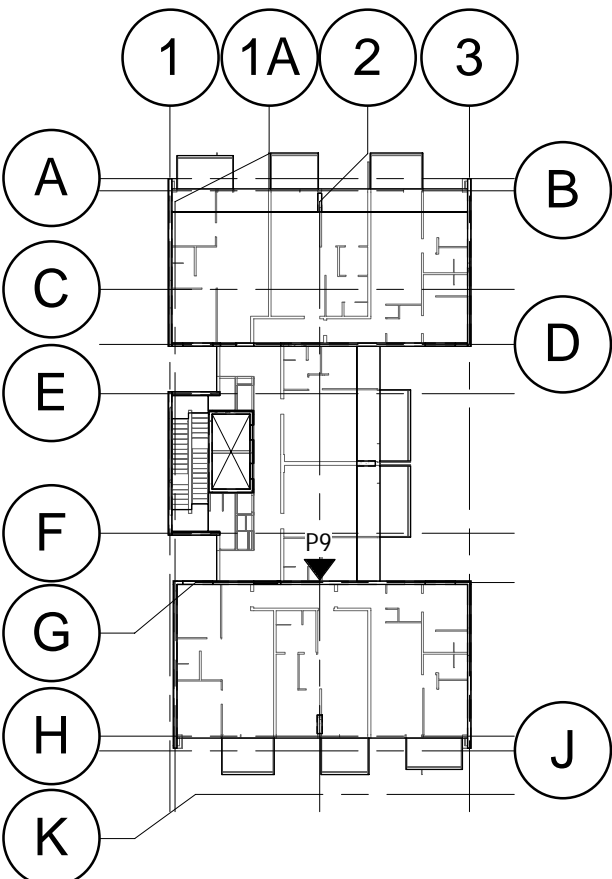
**CLIENT**

**PCD**

Prepared for:

**CONSULTANT**

AECOM Australia Pty. Ltd.  
A.B.N. 20 093 846 925  
www.aecom.com



**KEY PLAN**

**PRELIMINARY**

**PROJECT MANAGEMENT INITIALS**

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DESIGNER	CHECKED	APPROVED

**ISSUE/REVISION**

P1	29.11.14	PRELIMINARY ISSUE
I/R	DATE	DESCRIPTION

**KEY PLAN**

**PROJECT NUMBER**

60331940

**SHEET TITLE**

PRECAST ELEVATIONS - SHEET 9

**SHEET NUMBER**

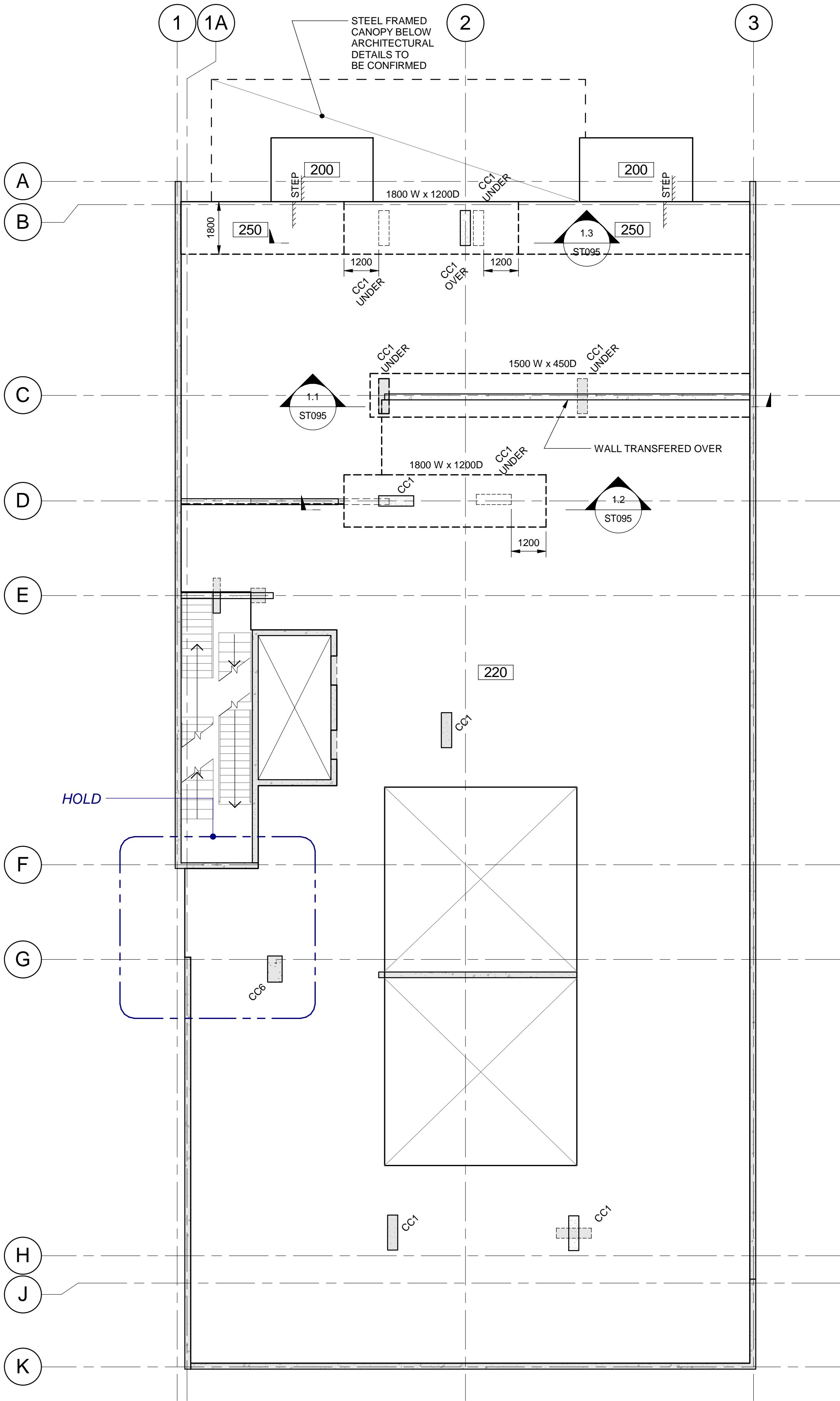
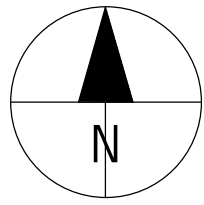
60331940-DRG-ST-033

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**LEVEL 01 PLAN**  
Scale: 1 : 100

**LEGEND**

- DENOTES CONCRETE ELEMENT OVER
- DENOTES LOAD BEARING ELEMENT UNDER
- DENOTES LOAD BEARING ELEMENT UNDER AND CONCRETE ELEMENT OVER
- DENOTES PRECAST WALL OVER
- DENOTES BLOCKWORK WALL OVER
- DENOTES MINIMUM SLAB THICKNESS
- DENOTES SLAB STEP. REFER ARCHITECT

**STRUCTURAL SIZES (U.N.O):**

SLAB: 220 THICK P/T SLAB

**CONCRETE GRADE:**

SLAB : N40 GRADE

**R.C. COLUMNS:**

REFER TO DRAWING ST-020

**PRECAST WALLS:**

REFER ELEVATIONS ON DRGS ST-025 TO ST-26

**DESIGN LOADING:**

RESIDENTIAL CAR STACKER  
SDL : 1.5 kPa SDL : 0.5 kPa  
LL : 1.5 kPa LL : 7.5 kPa

**NOTES:**

- REFER TO STRUCTURAL NOTES ON DRAWINGS ST-002 & ST-003.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT UNO.
- ALL FLOOR PENETRATIONS NOT SHOWN ARE TO BE SUBMITTED FOR APPROVAL AND CO-ORDINATION WITH STRUCTURAL REQUIREMENTS.

**AECOM**

**PROJECT**

**ANGAS STREET  
APARTMENTS**

**CLIENT**

**PCD**

Prepared for:

**CONSULTANT**

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A.B.N. 20 093 846 925  
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**PRELIMINARY**

**PROJECT MANAGEMENT INITIALS**

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DESIGNER	CHECKED	APPROVED

**ISSUE/REVISION**

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I/R	DATE	DESCRIPTION

**KEY PLAN**

**PROJECT NUMBER**

60331940

**SHEET TITLE**

LEVEL 01 GENERAL  
ARRANGEMENT

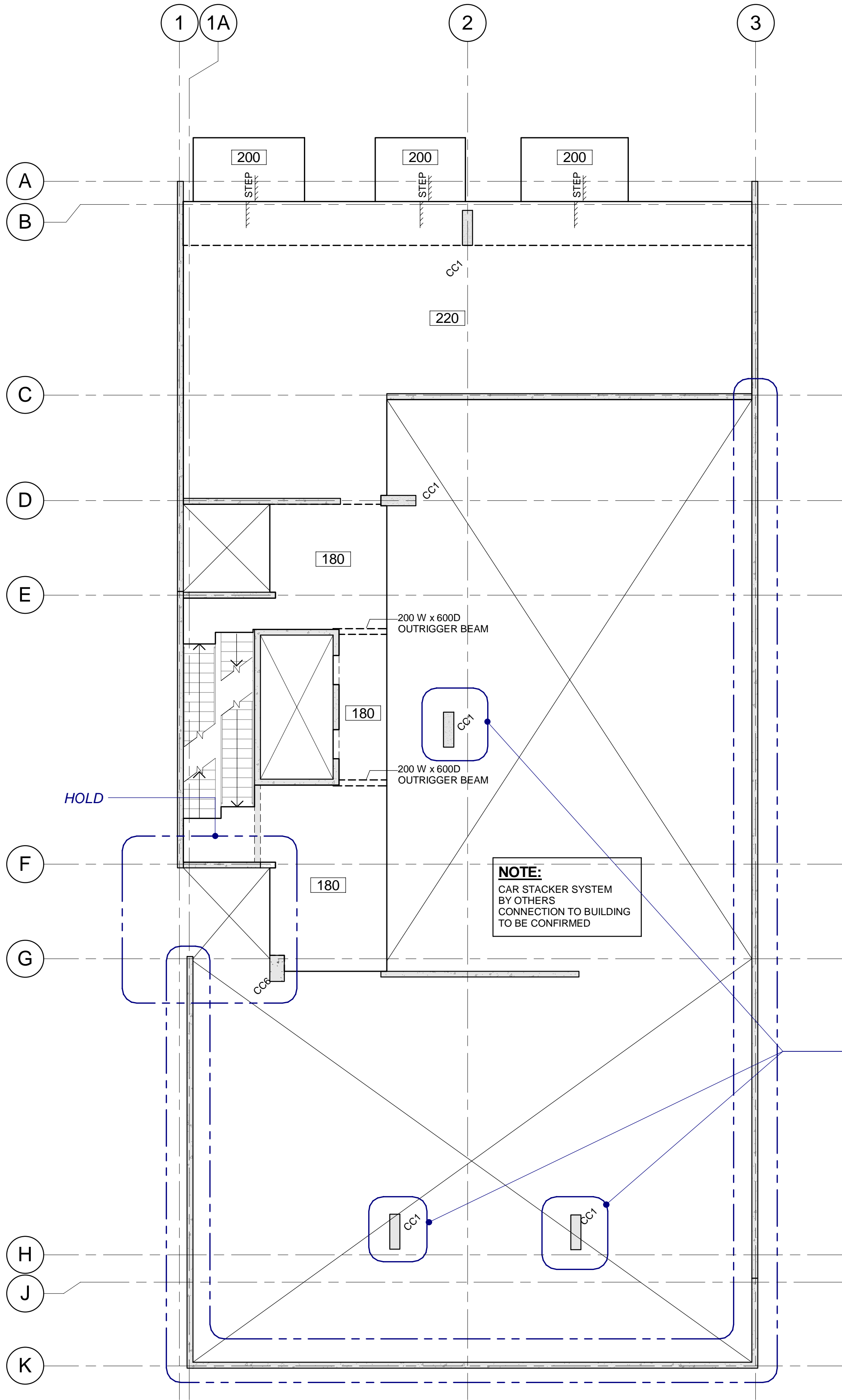
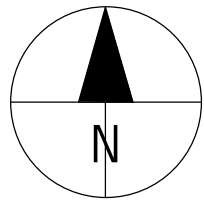
**SHEET NUMBER**

60331940-DRG-ST-040

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**LEVEL 02 PLAN**

Scale: 1 : 100

**LEGEND**

- DENOTES CONCRETE ELEMENT OVER
- DENOTES LOAD BEARING ELEMENT UNDER
- DENOTES LOAD BEARING ELEMENT UNDER AND CONCRETE ELEMENT OVER
- DENOTES PRECAST WALL OVER
- DENOTES BLOCKWORK WALL OVER
- DENOTES MINIMUM SLAB THICKNESS
- DENOTES SLAB STEP. REFER ARCHITECT

**STRUCTURAL SIZES (U.N.O):**

SLAB: 180 THICK P/T SLAB

**CONCRETE GRADE:**

SLAB : N32 GRADE

**R.C. COLUMNS:**

REFER TO DRAWING ST-020

**PRECAST WALLS:**

REFER ELEVATIONS ON DRGS ST-025 TO ST-26

**DESIGN LOADING:**

RESIDENTIAL	CAR STACKER
SDL : 1.5 kPa	SDL : 0.5 kPa
LL : 1.5 kPa	LL : 7.5 kPa

**NOTES:**

- REFER TO STRUCTURAL NOTES ON DRAWINGS ST-002 & ST-003.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT UNO.
- ALL FLOOR PENETRATIONS NOT SHOWN ARE TO BE SUBMITTED FOR APPROVAL AND CO-ORDINATION WITH STRUCTURAL REQUIREMENTS.

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**KEY PLAN**

**PROJECT NUMBER**

60331940

**SHEET TITLE**

LEVEL 02 GENERAL  
ARRANGEMENT

**SHEET NUMBER**

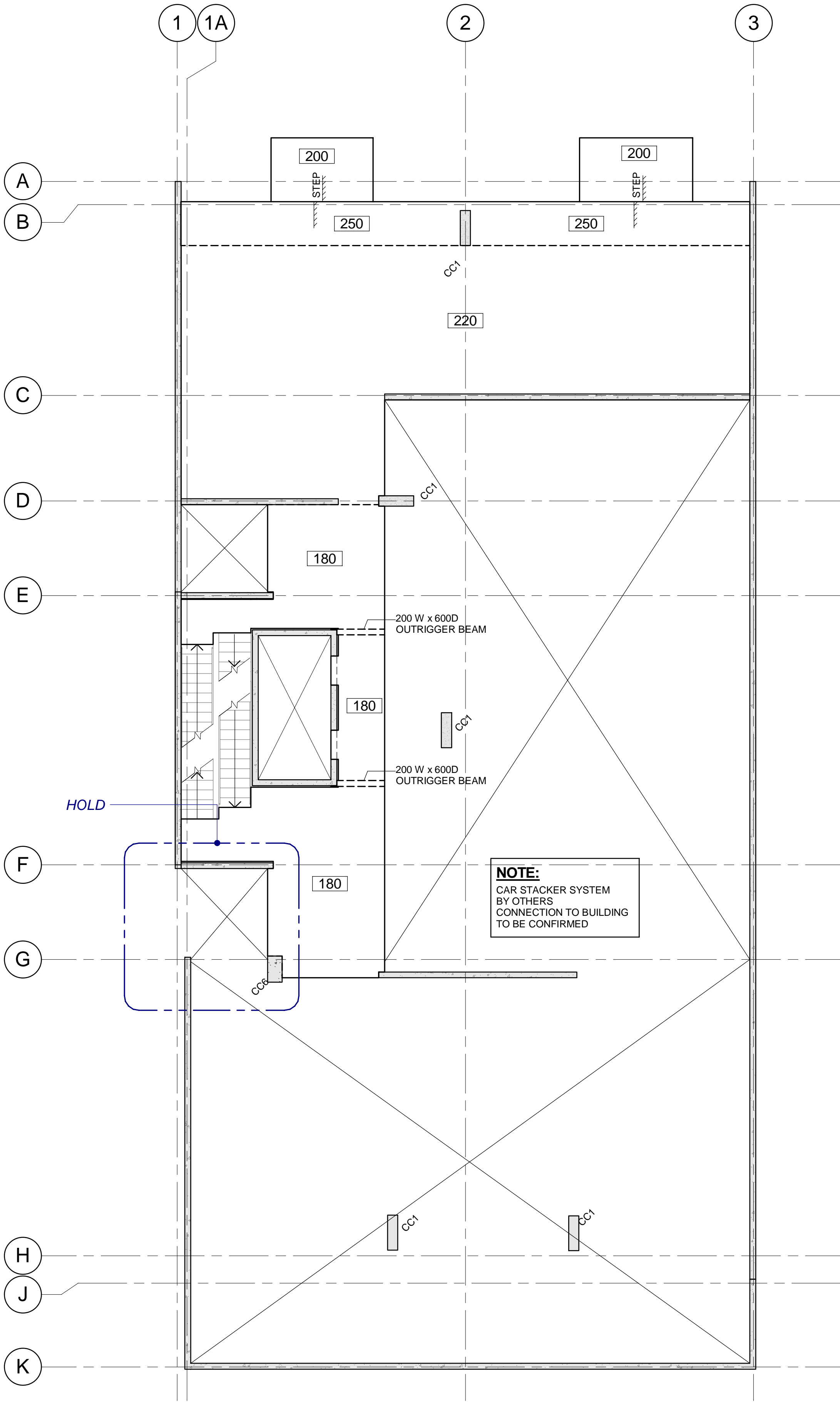
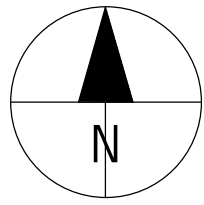
60331940-DRG-ST-045

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### LEGEND

- DENOTES CONCRETE ELEMENT OVER
- DENOTES LOAD BEARING ELEMENT UNDER
- DENOTES LOAD BEARING ELEMENT UNDER AND CONCRETE ELEMENT OVER
- DENOTES PRECAST WALL OVER
- DENOTES BLOCKWORK WALL OVER
- DENOTES MINIMUM SLAB THICKNESS
- DENOTES SLAB STEP. REFER ARCHITECT

### STRUCTURAL SIZES (U.N.O):

SLAB: 180 THICK P/T SLAB

### CONCRETE GRADE:

SLAB - N32 GRADE

### R.C. COLUMNS:

REFER TO DRAWING ST-020

### PRECAST WALLS:

REFER ELEVATIONS ON DRGS ST-025 TO ST-26

### DESIGN LOADING:

RESIDENTIAL CAR STACKER  
SDL : 1.5 kPa SDL : 0.5 kPa  
LL : 1.5 kPa LL : 7.5 kPa

### NOTES:

- REFER TO STRUCTURAL NOTES ON DRAWINGS ST-002 & ST-003.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT UNO.
- ALL FLOOR PENETRATIONS NOT SHOWN ARE TO BE SUBMITTED FOR APPROVAL AND CO-ORDINATION WITH STRUCTURAL REQUIREMENTS.

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### KEY PLAN

### PROJECT NUMBER

60331940

### SHEET TITLE

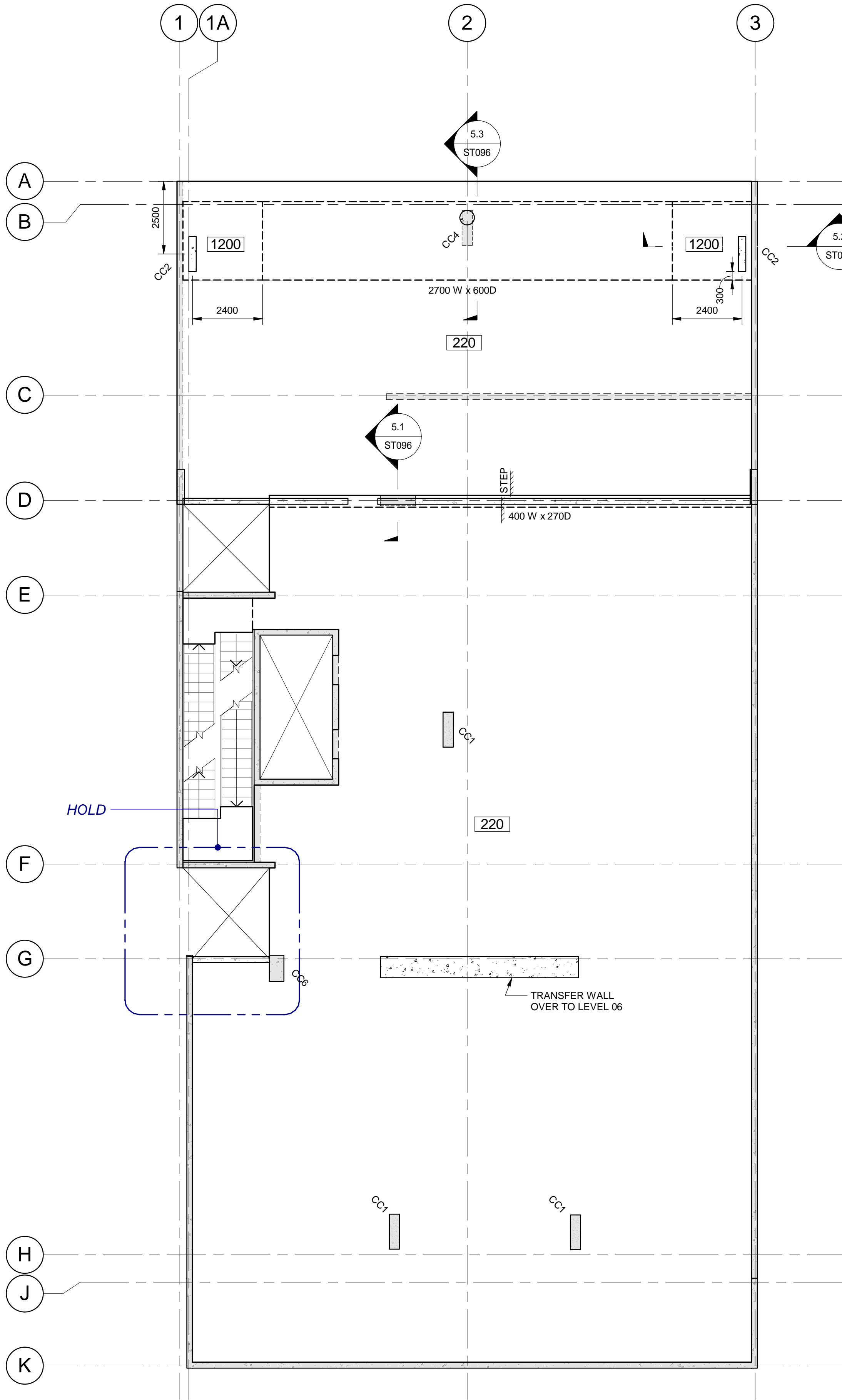
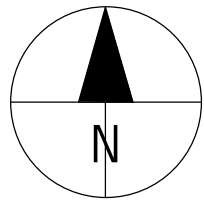
LEVEL 03 & 04 GENERAL  
ARRANGEMENT

### SHEET NUMBER

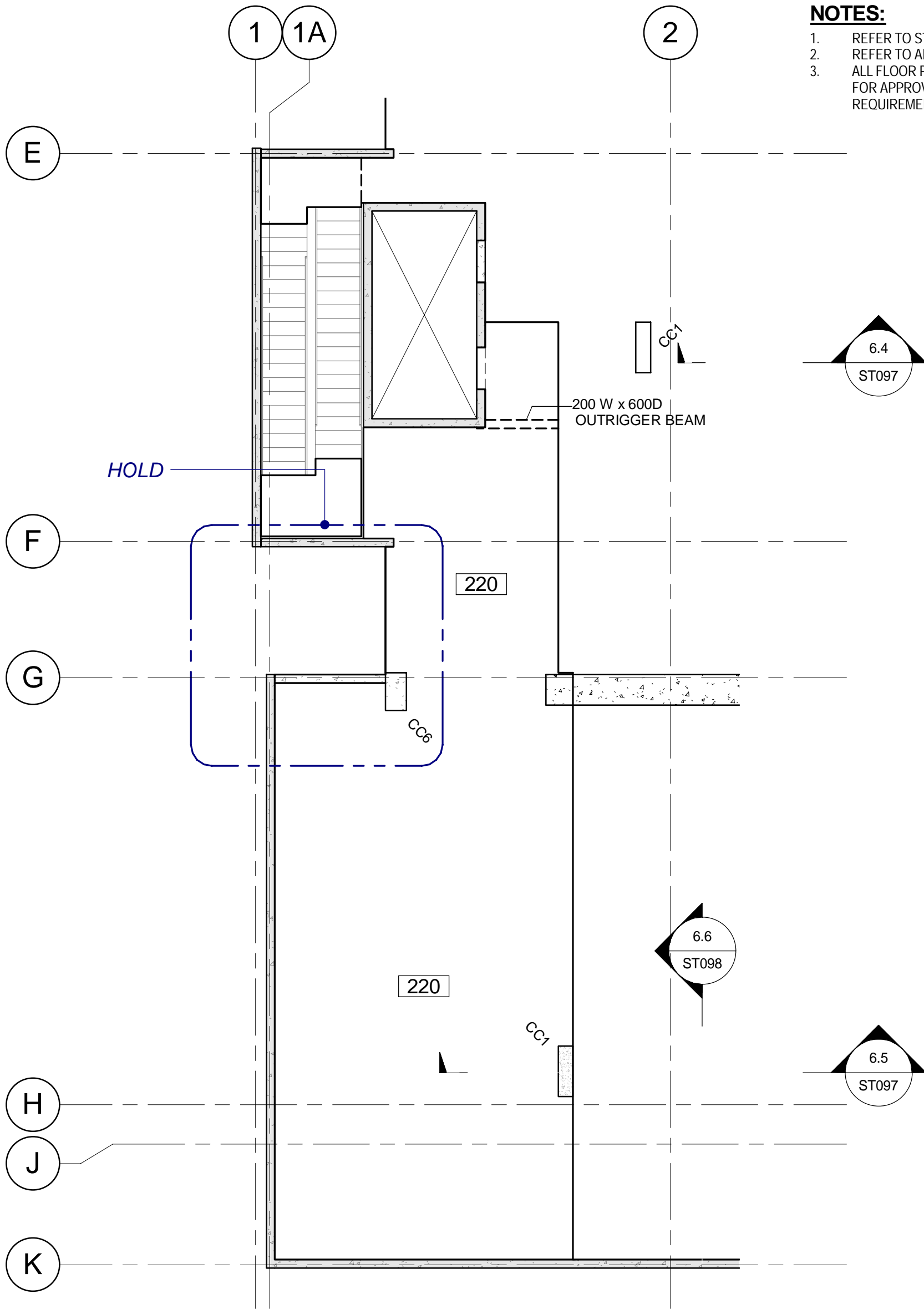
60331940-DRG-ST-050

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**LEVEL 05 PLAN**  
Scale: 1 : 100



**LEVEL 05 MEZZANINE PART PLAN**  
Scale: 1 : 100

**LEGEND**

	DENOTES CONCRETE ELEMENT OVER
	DENOTES LOAD BEARING ELEMENT UNDER
	DENOTES LOAD BEARING ELEMENT UNDER AND CONCRETE ELEMENT OVER
	DENOTES PRECAST WALL OVER
	DENOTES BLOCKWORK WALL OVER
	DENOTES MINIMUM SLAB THICKNESS
	DENOTES SLAB STEP. REFER ARCHITECT

**STRUCTURAL SIZES (U.N.O):**

SLAB: 220 THICK P/T SLAB

**CONCRETE GRADE:**

SLAB : N32 GRADE

**R.C. COLUMNS:**

REFER TO DRAWING ST-020

**PRECAST WALLS:**

REFER ELEVATIONS ON DRGS ST-025 TO ST-26

**DESIGN LOADING:**

RESIDENTIAL	STORAGE AREA:	TERRACE:
SDL : 1.5 kPa	SDL : 0.5 kPa	SDL : 4.0 kPa
LL : 1.5 kPa	LL : 5.0 kPa	LL : 5.0 kPa

**NOTES:**

- REFER TO STRUCTURAL NOTES ON DRAWINGS ST-002 & ST-003.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT UNO.
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**AECOM**

**PROJECT**

**ANGAS STREET  
APARTMENTS**

**CLIENT**

**PCD**

Prepared for:

**CONSULTANT**

AECOM Australia Pty. Ltd.  
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**PROJECT NUMBER**

60331940

**SHEET TITLE**

LEVEL 05 GENERAL  
ARRANGEMENT

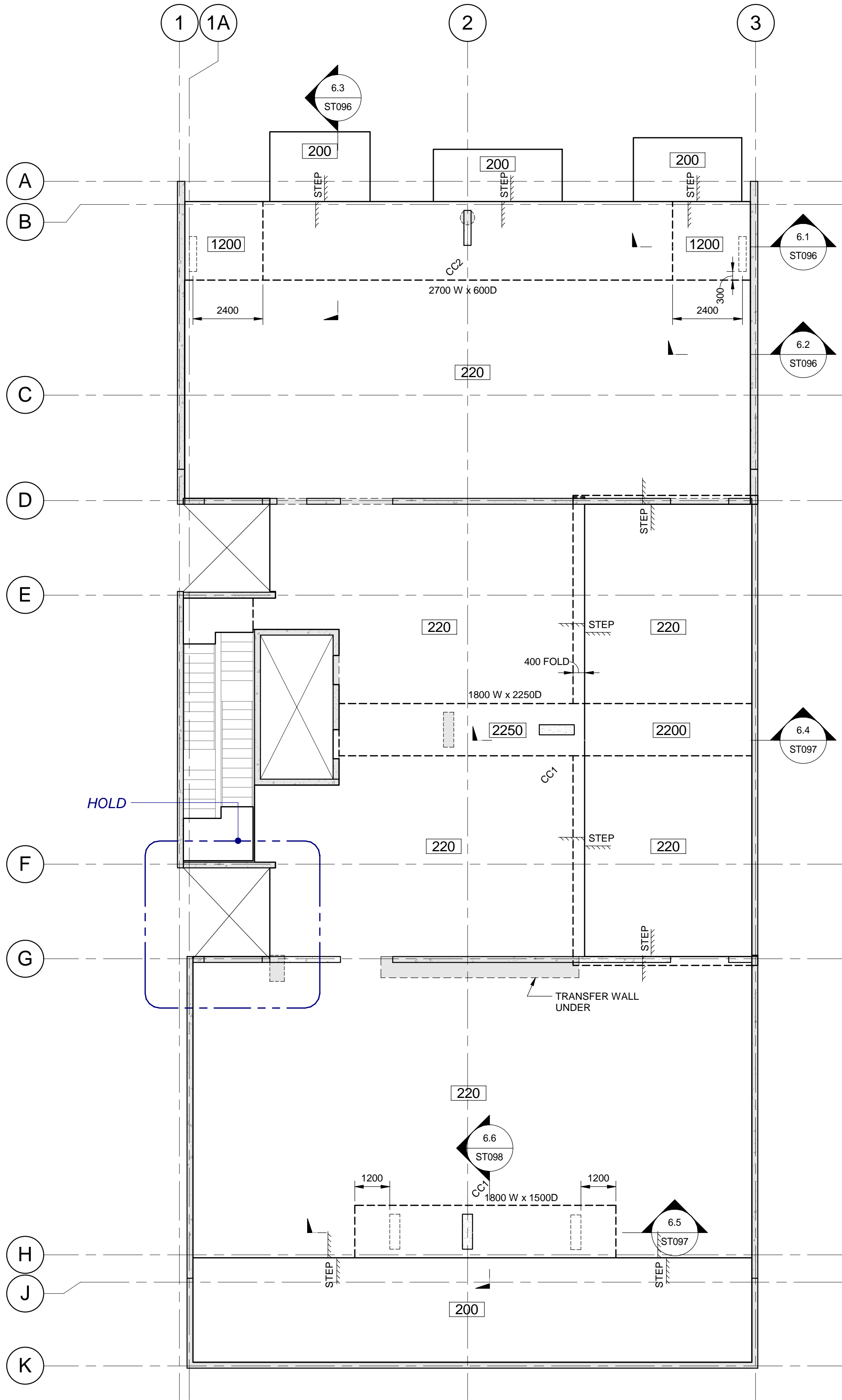
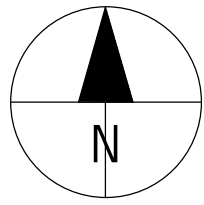
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60331940-DRG-ST-055



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**LEVEL 06 PLAN**  
Scale: 1 : 100

**LEGEND**

- DENOTES CONCRETE ELEMENT OVER
- DENOTES LOAD BEARING ELEMENT UNDER
- DENOTES LOAD BEARING ELEMENT UNDER AND CONCRETE ELEMENT OVER
- DENOTES PRECAST WALL OVER
- DENOTES BLOCKWORK WALL OVER
- DENOTES MINIMUM SLAB THICKNESS
- DENOTES SLAB STEP. REFER ARCHITECT

**STRUCTURAL SIZES (U.N.O):**

SLAB: 220 THICK P/T SLAB

**CONCRETE GRADE:**

SLAB : N32 GRADE

**R.C. COLUMNS:**

REFER TO DRAWING ST-020

**PRECAST WALLS:**

REFER ELEVATIONS ON DRGS ST-025 TO ST-26

**DESIGN LOADING:**

RESIDENTIAL CAR STACKER  
SDL : 1.5 kPa SDL : 0.5 kPa  
LL : 1.5 kPa LL : 7.5 kPa

**NOTES:**

- REFER TO STRUCTURAL NOTES ON DRAWINGS ST-002 & ST-003.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT UNO.
- ALL FLOOR PENETRATIONS NOT SHOWN ARE TO BE SUBMITTED FOR APPROVAL AND CO-ORDINATION WITH STRUCTURAL REQUIREMENTS.



**PROJECT**

ANGAS STREET  
APARTMENTS

**CLIENT**

PCD

Prepared for:

**CONSULTANT**

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**PROJECT NUMBER**

60331940

**SHEET TITLE**

LEVEL 06 GENERAL  
ARRANGEMENT

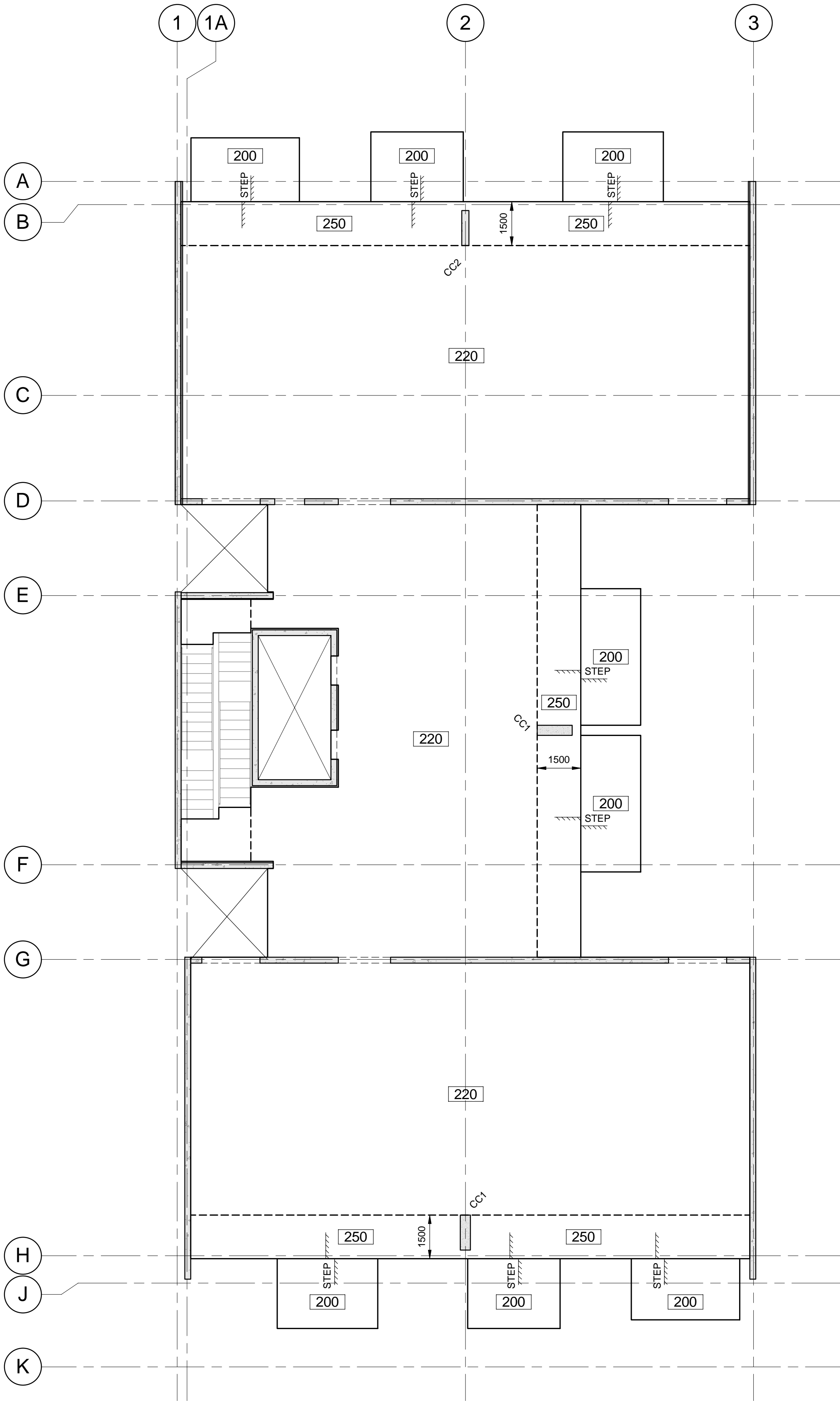
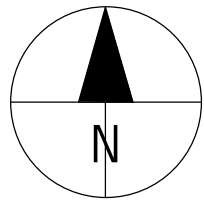
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60331940-DRG-ST-060

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**LEVEL 07 PLAN**  
Scale: 1 : 100

**LEVELS 09, 11, 13, 15, 17 & 19 SIMILAR**

**LEGEND**

- DENOTES CONCRETE ELEMENT OVER
- DENOTES LOAD BEARING ELEMENT UNDER
- DENOTES LOAD BEARING ELEMENT UNDER AND CONCRETE ELEMENT OVER
- DENOTES PRECAST WALL OVER
- DENOTES BLOCKWORK WALL OVER
- DENOTES MINIMUM SLAB THICKNESS
- DENOTES SLAB STEP. REFER ARCHITECT

**STRUCTURAL SIZES (U.N.O):**

SLAB: 220 THICK P/T SLAB

**CONCRETE GRADE:**

SLAB - N32 GRADE

**R.C. COLUMNS:**

REFER TO DRAWING ST-020

**PRECAST WALLS:**

REFER ELEVATIONS ON DRGS ST-025 TO ST-26

**DESIGN LOADING:**

RESIDENTIAL CAR STACKER  
SDL : 1.5 kPa SDL : 0.5 kPa  
LL : 1.5 kPa LL : 7.5 kPa

**NOTES:**

- REFER TO STRUCTURAL NOTES ON DRAWINGS ST-002 & ST-003.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT UNO.
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**PROJECT**

**ANGAS STREET  
APARTMENTS**

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**KEY PLAN**

**PROJECT NUMBER**

60331940

**SHEET TITLE**

LEVELS 07, 09, 11, 13, 15, 17 & 19  
GENERAL ARRANGEMENT PLAN

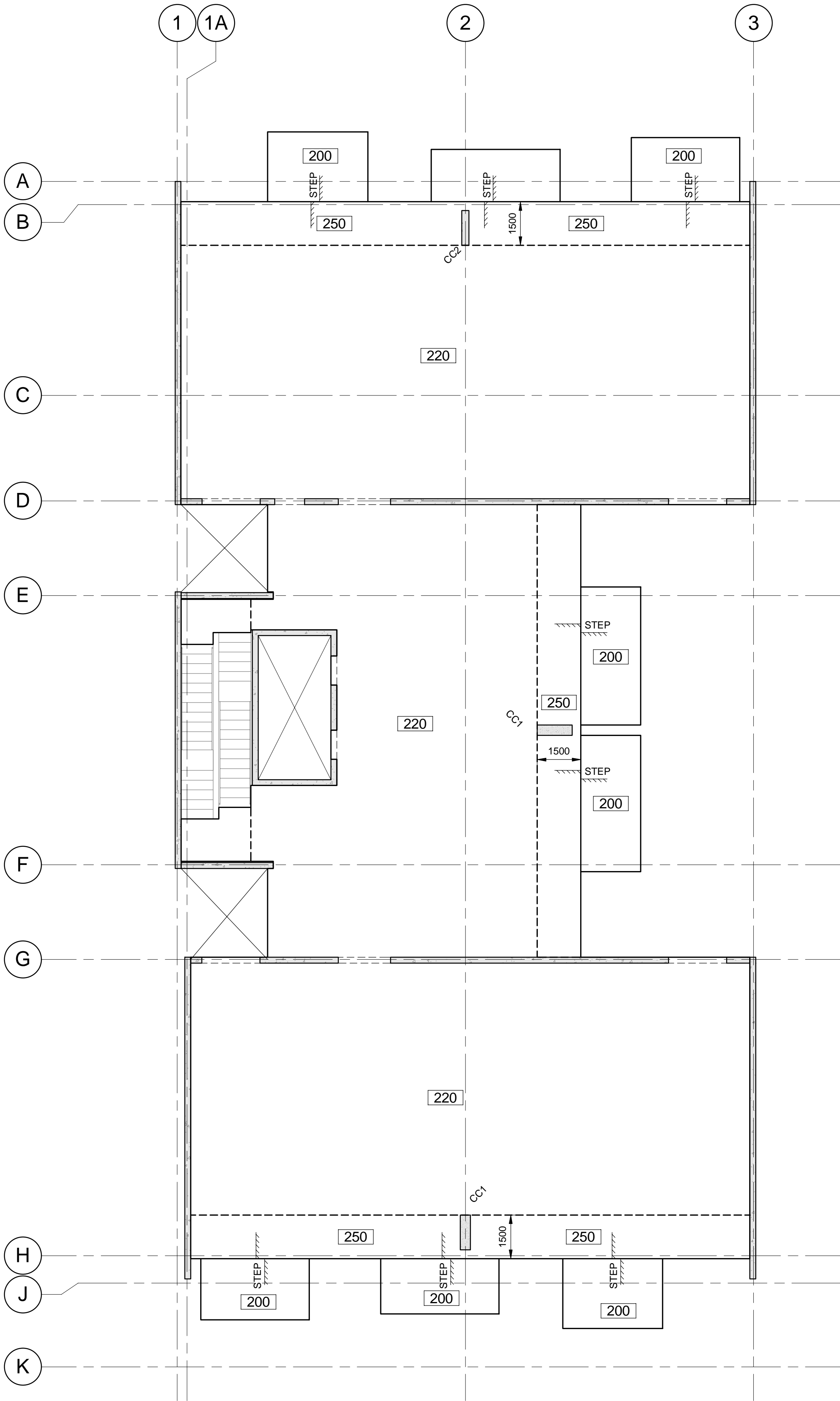
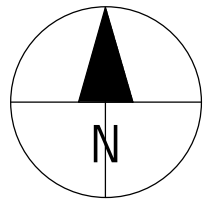
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60331940-DRG-ST-065

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**LEVEL 08 PLAN**  
Scale: 1 : 100  
**LEVELS 10, 12, 14, 16, 18 & 20 SIMILAR**

**LEGEND**

- DENOTES CONCRETE ELEMENT OVER
- DENOTES LOAD BEARING ELEMENT UNDER
- DENOTES LOAD BEARING ELEMENT UNDER AND CONCRETE ELEMENT OVER
- DENOTES PRECAST WALL OVER
- DENOTES BLOCKWORK WALL OVER
- DENOTES MINIMUM SLAB THICKNESS
- DENOTES SLAB STEP. REFER ARCHITECT

**STRUCTURAL SIZES (U.N.O):**

SLAB: 220 THICK P/T SLAB

**CONCRETE GRADE:**

SLAB - N32 GRADE

**R.C. COLUMNS:**

REFER TO DRAWING ST-020

**PRECAST WALLS:**

REFER ELEVATIONS ON DRGS ST-025 TO ST-26

**DESIGN LOADING:**

RESIDENTIAL CAR STACKER  
SDL : 1.5 kPa SDL : 0.5 kPa  
LL : 1.5 kPa LL : 7.5 kPa

**NOTES:**

- REFER TO STRUCTURAL NOTES ON DRAWINGS ST-002 & ST-003.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT UNO.
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**AECOM**

**PROJECT**

**ANGAS STREET  
APARTMENTS**

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**PCD**

Prepared for:

**CONSULTANT**

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**KEY PLAN**

**PROJECT NUMBER**

60331940

**SHEET TITLE**

LEVELS 08, 10, 12, 14, 16, 18 & 20  
GENERAL ARRANGEMENT PLAN

**SHEET NUMBER**

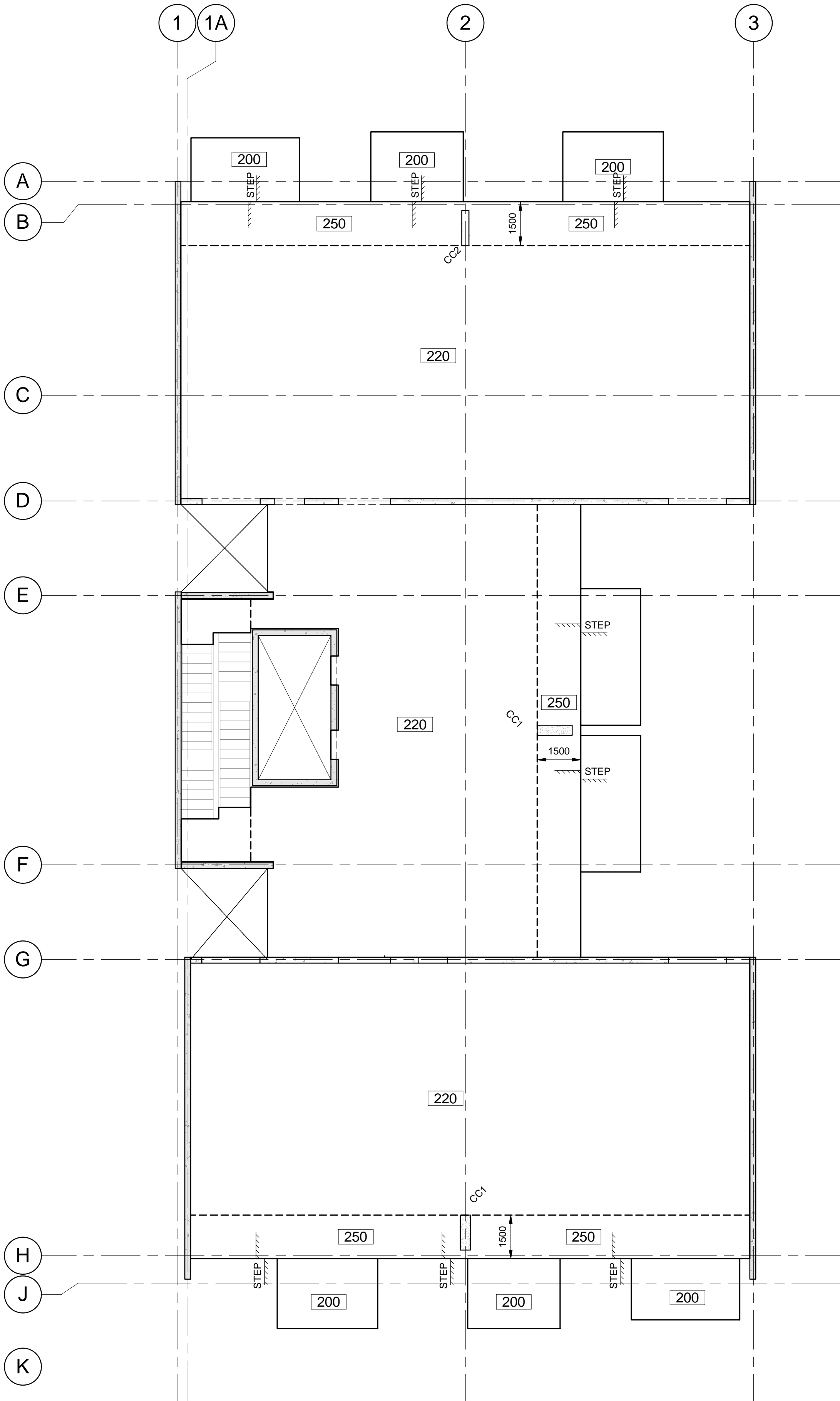
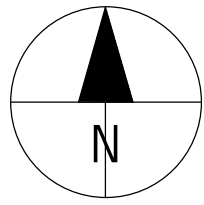
60331940-DRG-ST-070

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**LEVEL 21 PLAN**  
Scale: 1 : 100

**LEGEND**

- DENOTES CONCRETE ELEMENT OVER
- DENOTES LOAD BEARING ELEMENT UNDER
- DENOTES LOAD BEARING ELEMENT UNDER AND CONCRETE ELEMENT OVER
- DENOTES PRECAST WALL OVER
- DENOTES BLOCKWORK WALL OVER
- DENOTES MINIMUM SLAB THICKNESS
- DENOTES SLAB STEP. REFER ARCHITECT

**STRUCTURAL SIZES (U.N.O):**

SLAB: 220 THICK P/T SLAB

**CONCRETE GRADE:**

SLAB - N32 GRADE

**R.C. COLUMNS:**

REFER TO DRAWING ST-020

**PRECAST WALLS:**

REFER ELEVATIONS ON DRGS ST-025 TO ST-26

**DESIGN LOADING:**

RESIDENTIAL CAR STACKER  
SDL : 1.5 kPa SDL : 0.5 kPa  
LL : 1.5 kPa LL : 7.5 kPa

**NOTES:**

- REFER TO STRUCTURAL NOTES ON DRAWINGS ST-002 & ST-003.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT UNO.
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**AECOM**

**PROJECT**

**ANGAS STREET  
APARTMENTS**

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**PCD**

Prepared for:

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I/R	DATE	DESCRIPTION

**KEY PLAN**

**PROJECT NUMBER**

60331940

**SHEET TITLE**

LEVEL 21 GENERAL  
ARRANGEMENT PLAN

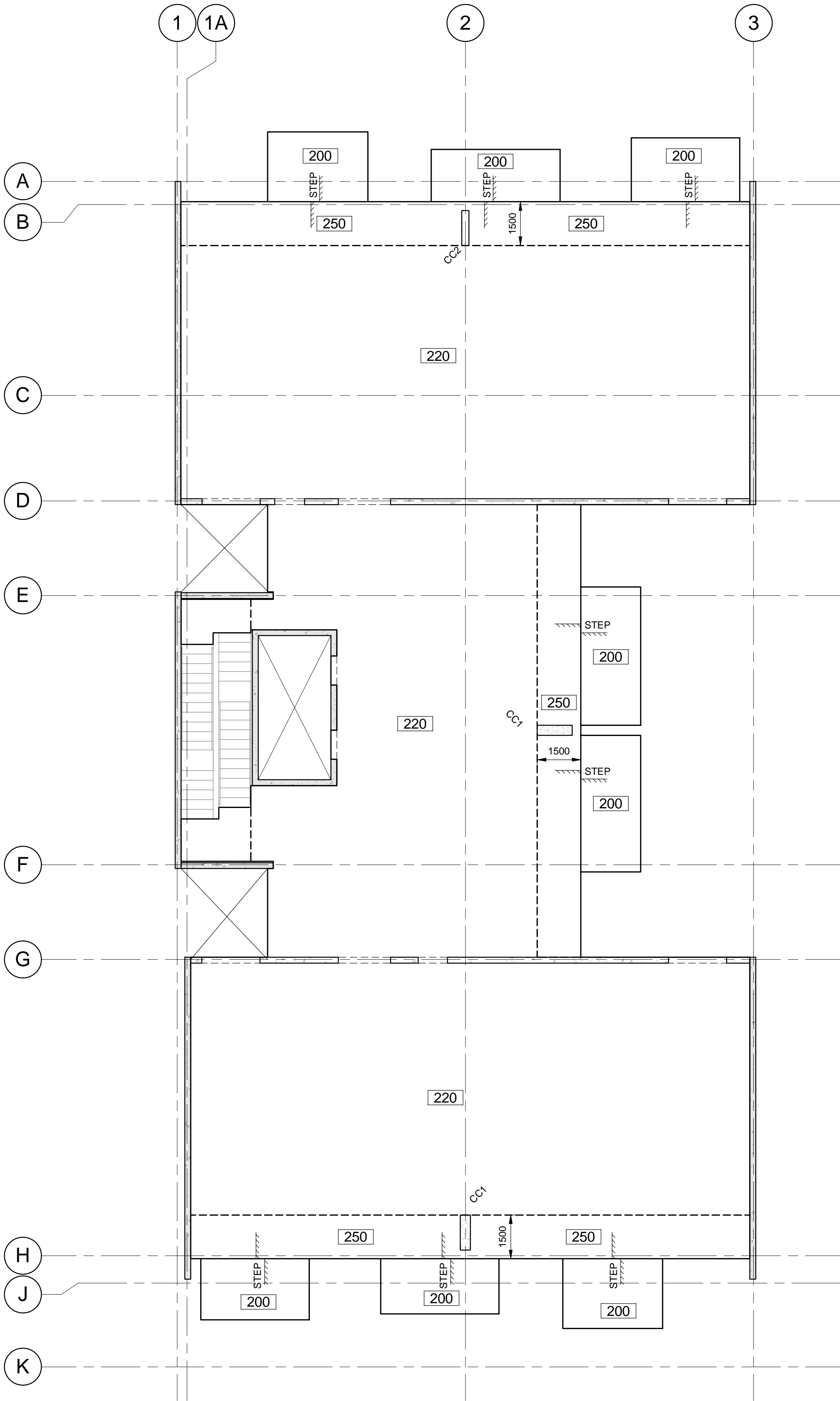
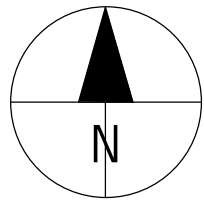
**SHEET NUMBER**

60331940-DRG-ST-075

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ISO A1 594mm x 841mm

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**LEVEL 22 PLAN**  
Scale: 1 : 100

**LEGEND**

- DENOTES CONCRETE ELEMENT OVER
- DENOTES LOAD BEARING ELEMENT UNDER
- DENOTES LOAD BEARING ELEMENT UNDER AND CONCRETE ELEMENT OVER
- DENOTES PRECAST WALL OVER
- DENOTES BLOCKWORK WALL OVER
- DENOTES MINIMUM SLAB THICKNESS
- DENOTES SLAB STEP. REFER ARCHITECT

**STRUCTURAL SIZES (U.N.O):**

SLAB: 220 THICK P/T SLAB

**CONCRETE GRADE:**

SLAB - N32 GRADE

**R.C. COLUMNS:**

REFER TO DRAWING ST-020

**PRECAST WALLS:**

REFER ELEVATIONS ON DRGS ST-025 TO ST-26

**DESIGN LOADING:**

RESIDENTIAL CAR STACKER  
SDL : 1.5 kPa SDL : 0.5 kPa  
LL : 1.5 kPa LL : 7.5 kPa

**NOTES:**

- REFER TO STRUCTURAL NOTES ON DRAWINGS ST-002 & ST-003.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT UNO.
- ALL FLOOR PENETRATIONS NOT SHOWN ARE TO BE SUBMITTED FOR APPROVAL AND CO-ORDINATION WITH STRUCTURAL REQUIREMENTS.



**PROJECT**

ANGAS STREET  
APARTMENTS

**CLIENT**

PCD

Prepared for:

**CONSULTANT**

AECOM Australia Pty. Ltd.  
A.B.N. 20 093 846 925  
www.aecom.com

**PRELIMINARY**

**PROJECT MANAGEMENT INITIALS**

DL	CK	
DESIGNER	CHECKED	APPROVED

**ISSUE/REVISION**

P1	28.11.14	PRELIMINARY ISSUE
I/R	DATE	DESCRIPTION

**KEY PLAN**

**PROJECT NUMBER**

60331940

**SHEET TITLE**

LEVEL 22 GENERAL  
ARRANGEMENT PLAN

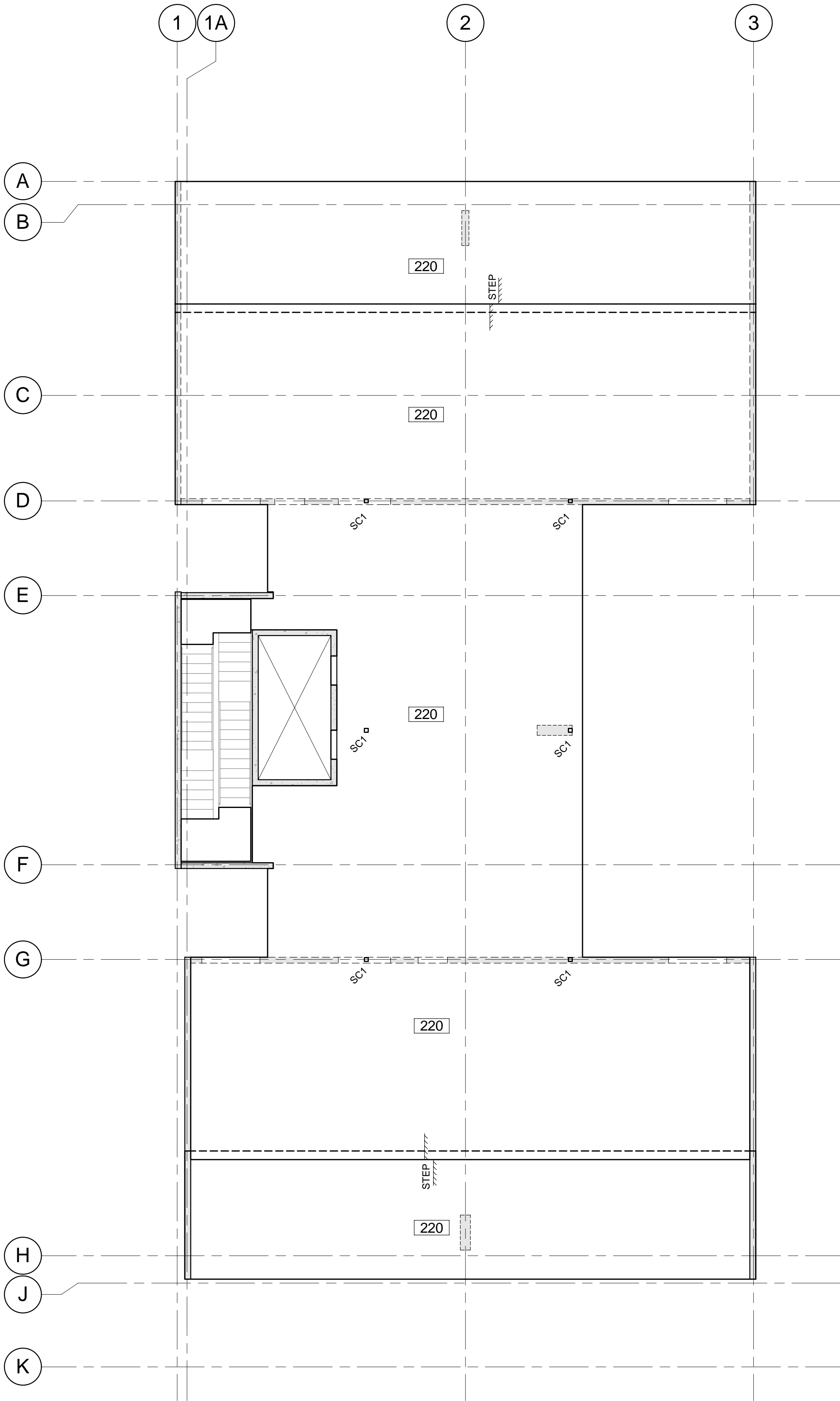
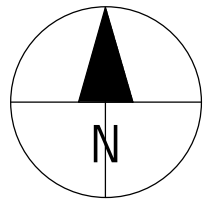
**SHEET NUMBER**

60331940-DRG-ST-080

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**LEVEL 23 PLAN**  
Scale: 1 : 100

**LEGEND**

- DENOTES CONCRETE ELEMENT OVER
- DENOTES LOAD BEARING ELEMENT UNDER
- DENOTES LOAD BEARING ELEMENT UNDER AND CONCRETE ELEMENT OVER
- DENOTES PRECAST WALL OVER
- DENOTES BLOCKWORK WALL OVER
- DENOTES MINIMUM SLAB THICKNESS
- DENOTES SLAB STEP. REFER ARCHITECT

**STRUCTURAL SIZES (U.N.O):**

SLAB: 220 THICK P/T SLAB

**CONCRETE GRADE:**

SLAB - N32 GRADE

**R.C. COLUMNS:**

REFER TO DRAWING ST-020

**PRECAST WALLS:**

REFER ELEVATIONS ON DRGS ST-025 TO ST-26

**DESIGN LOADING:**

RESIDENTIAL CAR STACKER  
SDL : 1.5 kPa SDL : 0.5 kPa  
LL : 1.5 kPa LL : 7.5 kPa

**NOTES:**

- REFER TO STRUCTURAL NOTES ON DRAWINGS ST-002 & ST-003.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT UNO.
- ALL FLOOR PENETRATIONS NOT SHOWN ARE TO BE SUBMITTED FOR APPROVAL AND CO-ORDINATION WITH STRUCTURAL REQUIREMENTS.

STEEL COLUMN SCHEDULE		
MARK	SIZE	COMMENTS
SC1	125x125x6.0 SHS	

**PROJECT**

ANGAS STREET  
APARTMENTS

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Prepared for:

**CONSULTANT**

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**PRELIMINARY**

**PROJECT MANAGEMENT INITIALS**

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DESIGNER	CHECKED	APPROVED

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I/R	DATE	DESCRIPTION

**KEY PLAN**

**PROJECT NUMBER**

60331940

**SHEET TITLE**

LEVEL 23. GENERAL  
ARRANGEMENT PLAN

**SHEET NUMBER**

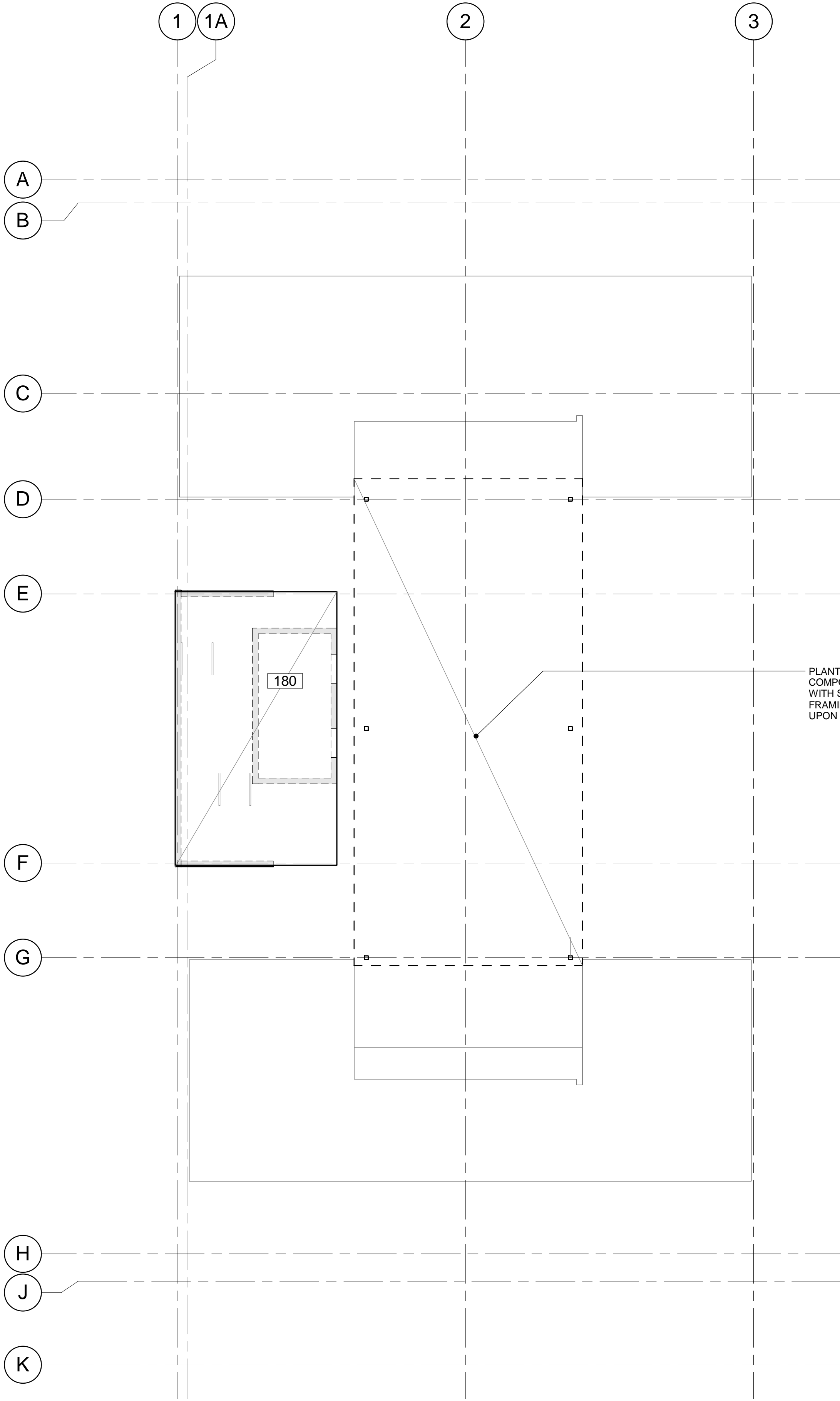
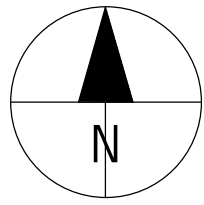
60331940-DRG-ST-085

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**LEGEND**

DENOTES CONCRETE ELEMENT OVER

DENOTES LOAD BEARING ELEMENT UNDER

DENOTES LOAD BEARING ELEMENT UNDER AND CONCRETE ELEMENT OVER

P200

DENOTES PRECAST WALL OVER

BW1

DENOTES BLOCKWORK WALL OVER

200

DENOTES MINIMUM SLAB THICKNESS

STEP

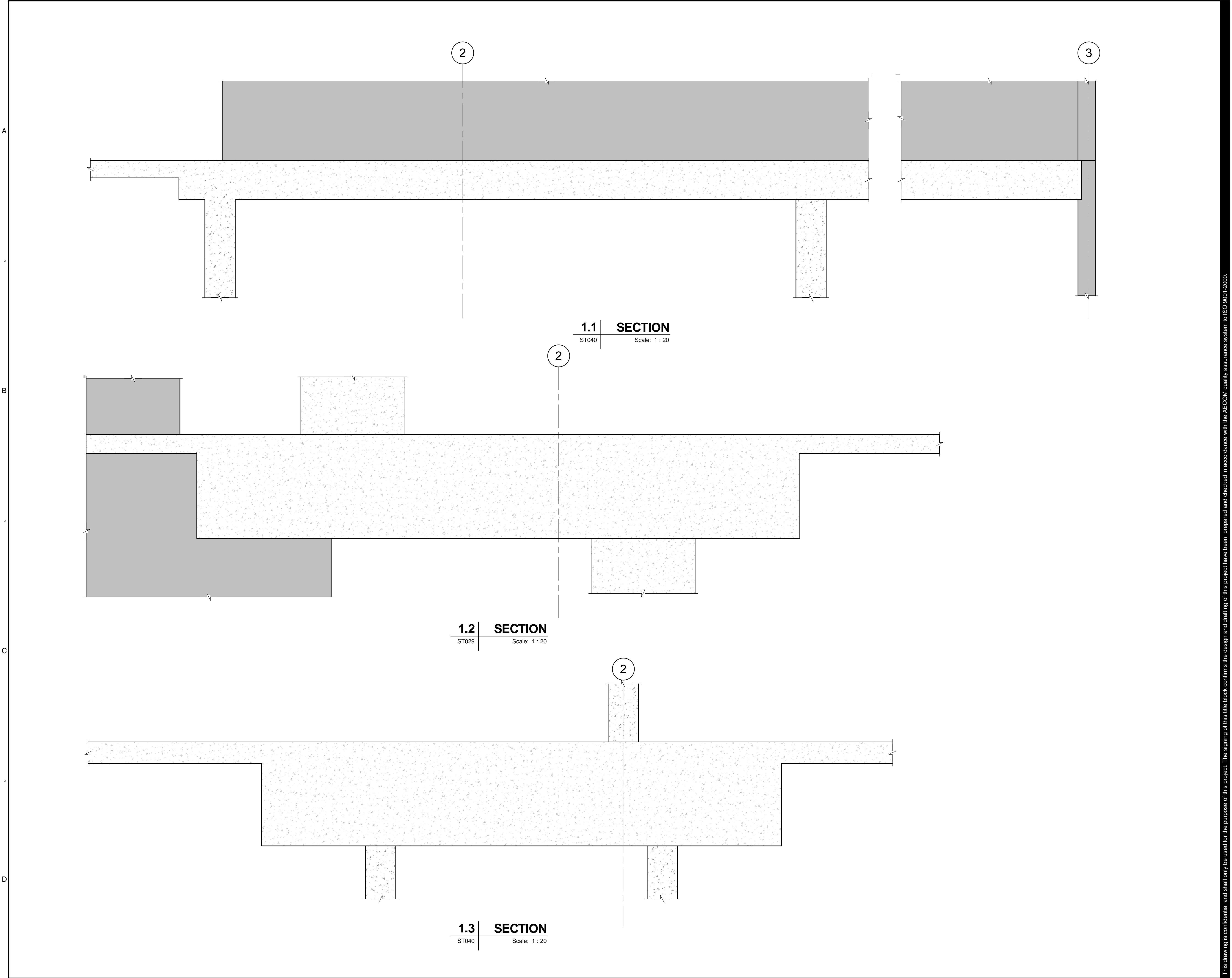
DENOTES SLAB STEP. REFER ARCHITECT

**STRUCTURAL SIZES (U.N.O):**  
SLAB: TBC  
**CONCRETE GRADE:**  
SLAB - N32 GRADE  
**R.C. COLUMNS:**  
REFER TO DRAWING ST-020  
**PRECAST WALLS:**  
REFER ELEVATIONS ON DRGS ST-025 TO ST-26  
**DESIGN LOADING:**  
PLANT LIGHTWEIGHT ROOF  
SDL : TBC kPa SDL : TBC kPa  
LL : TBC kPa LL : TBC kPa  
**NOTES:**  
1. REFER TO STRUCTURAL NOTES ON DRAWINGS ST-002 & ST-003.  
2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT UNO.  
3. ALL FLOOR PENETRATIONS NOT SHOWN ARE TO BE SUBMITTED FOR APPROVAL AND CO-ORDINATION WITH STRUCTURAL REQUIREMENTS.

**ROOF FRAMING PLAN**  
Scale: 1 : 100

ISO A1 594mm x 841mm

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PROJECT

ANGAS STREET  
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PRELIMINARY

PROJECT MANAGEMENT INITIALS

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ISSUE/REVISION

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KEY PLAN

PROJECT NUMBER

60331940

SHEET TITLE

DETAILS - SHEET 1

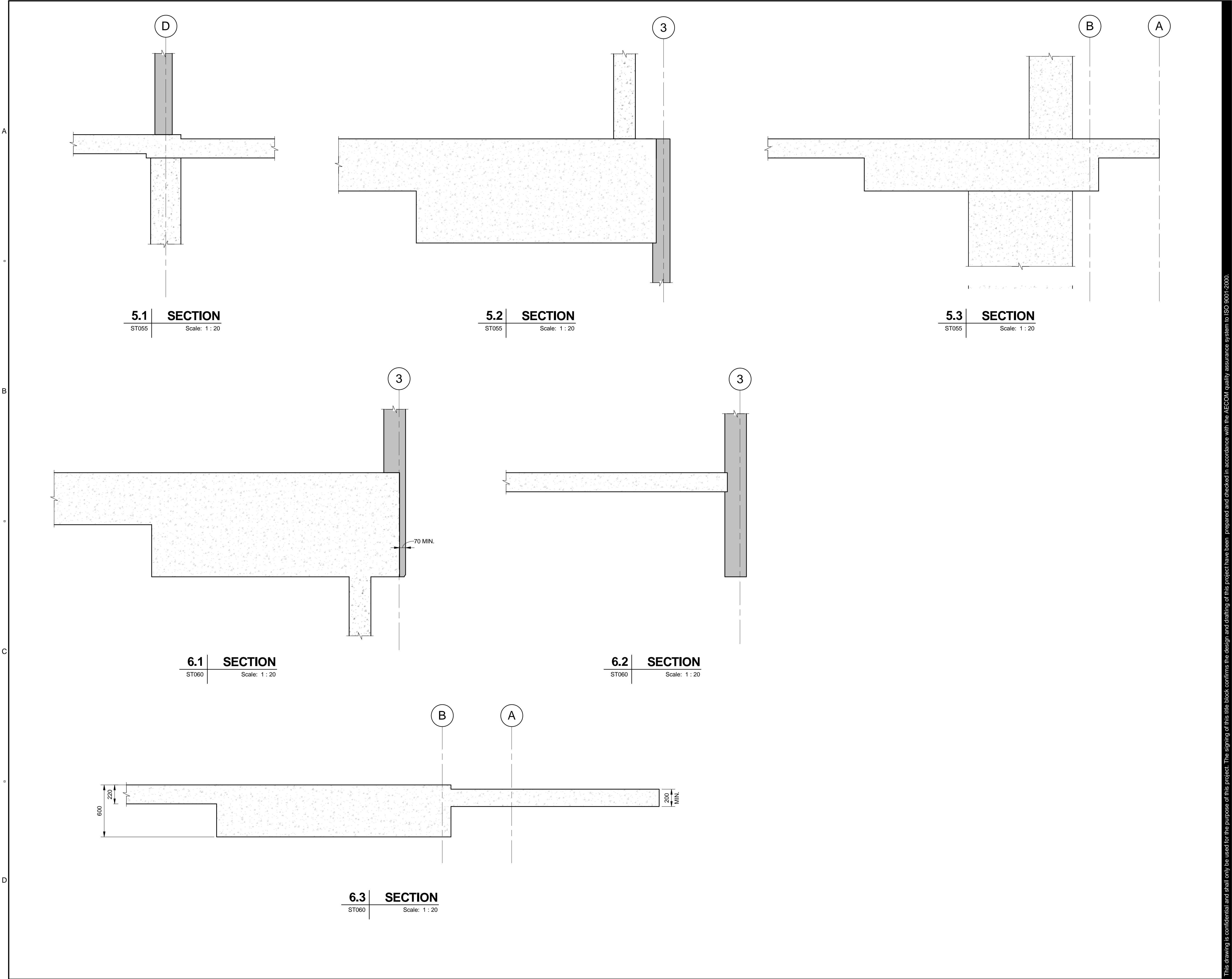
SHEET NUMBER

60331940-DRG-ST-095

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I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60331940

SHEET TITLE

DETAILS - SHEET 2

SHEET NUMBER

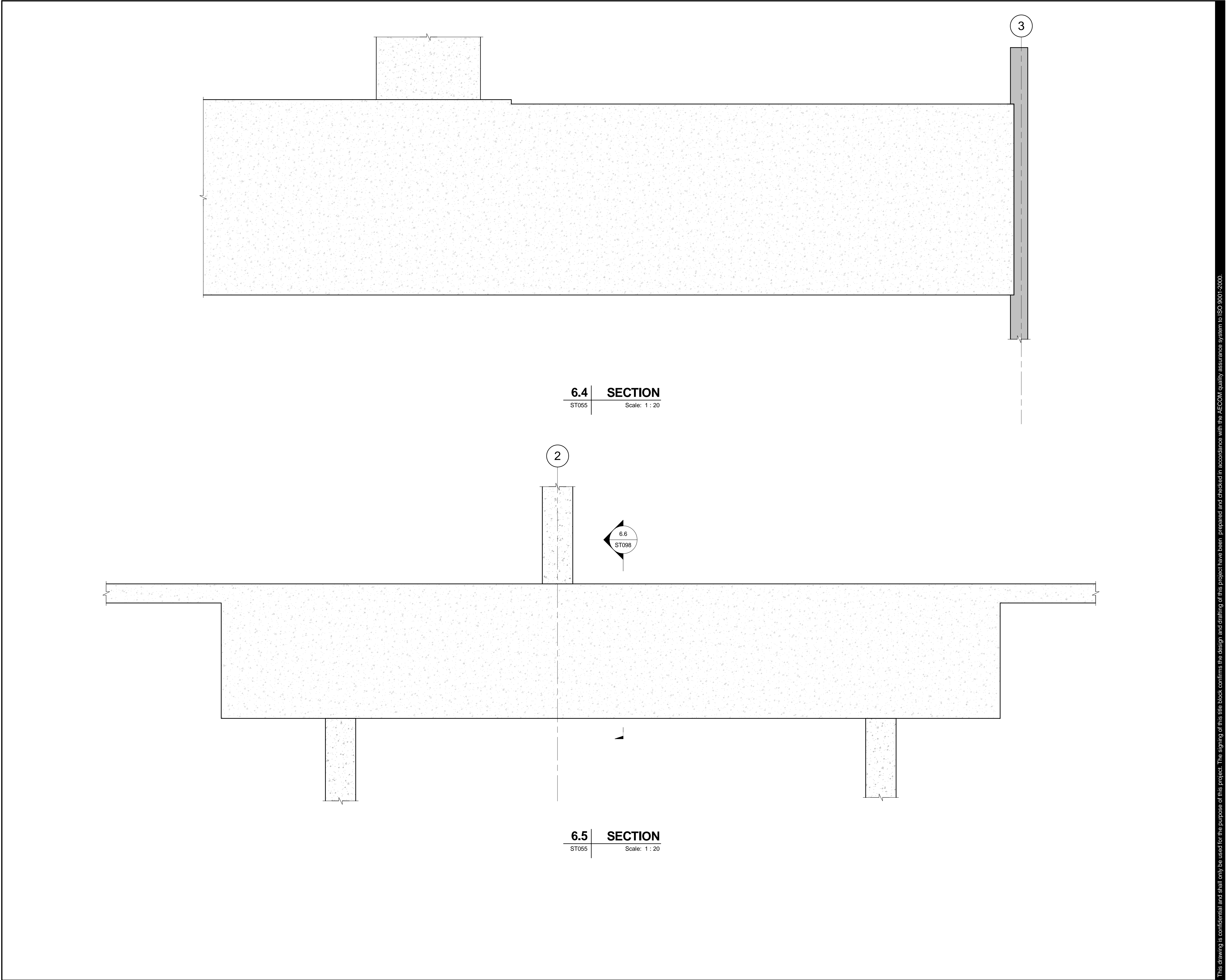
60331940-DRG-ST-096

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**6.4 SECTION**  
ST055 Scale: 1 : 20

**6.6**  
ST098

**6.5 SECTION**  
ST055 Scale: 1 : 20



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I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60331940

SHEET TITLE

DETAILS - SHEET 3

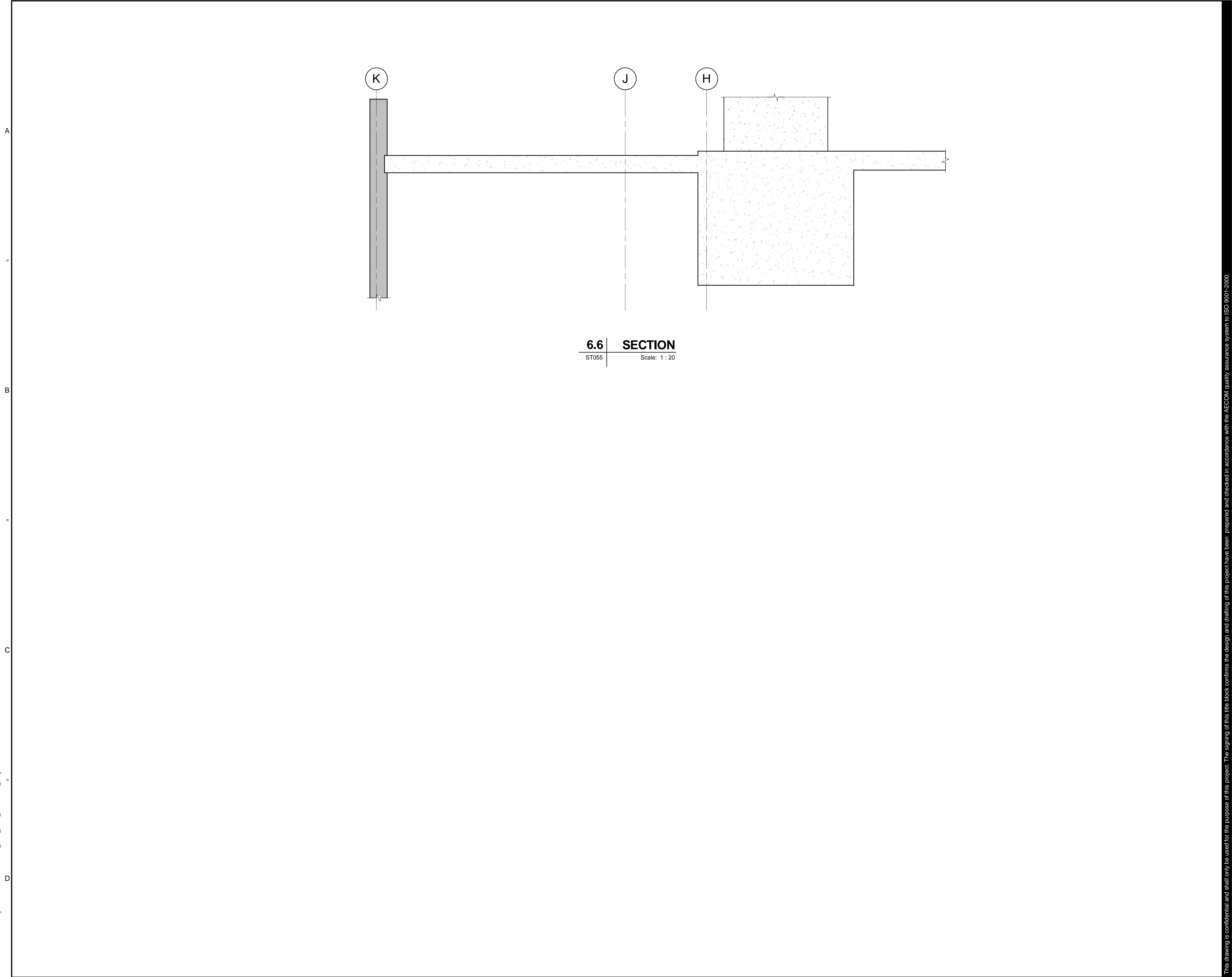
SHEET NUMBER

60331940-DRG-ST-097

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KEY PLAN

PROJECT NUMBER

60331940

SHEET TITLE

DETAILS - SHEET 4

SHEET NUMBER

60331940-DRG-ST-098

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