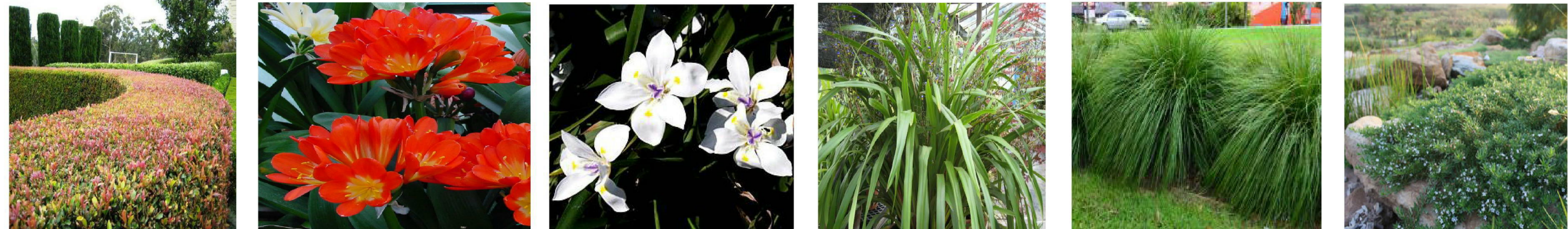


NATIVE & EXOTIC TREE PLANTING



Pyrus 'Chanticleer'  
Tristaniopsis laurina 'Luscious'  
Waterhouisia floribunda Evergreen screening tree

NATIVE & EXOTIC LOW WATER USE SHRUBS & GROUNDCOVERS



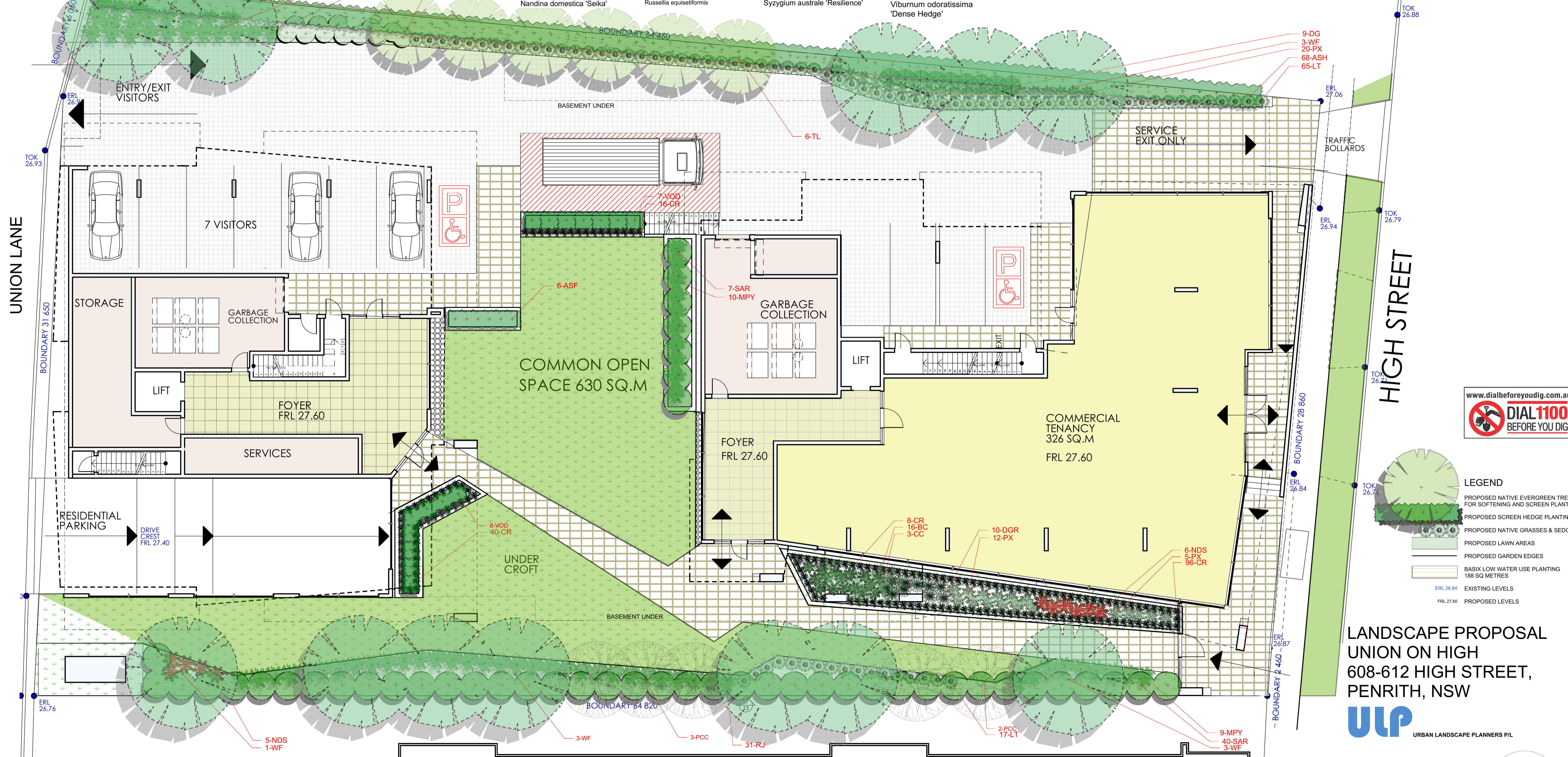
Acmena 'Hedgemaster'  
Clivea miniata 'Red Form'  
Dietes grandiflora  
Dianella 'Goddess'  
Lomandra longifolia 'Tanaka'  
Myoporum parvifolium 'Yareena'



Nandina domestica 'Seika'  
Russelia equisetiformis  
Syzygium australe 'Resilience'  
Viburnum odoratissima 'Dense Hedge'

PLANT REGISTER

ID	Qty	Botanical Name	Common Name	Cont/size	Mature size
ASF	6	* Acmena smithii 'Firescreen'	Dwarf hedging Lillypilly	5L	1100s x 1300h
ASH	68	* Acmena smithii 'Hedgemaster'	Dwarf hedging Lillypilly	5L	1200s x 1400h
BC	16	**Blechnum cartilagineum	Gristle Fern	5L	750mms x 600mmh
CC	3	*Cyathea cooperi	Tree Fern	25L	2ms x 2mh
CR	160	Clivea miniata 'Red Form'	Red Clivea	5L	500mms x 400mmh
DG	9	* Dianella 'Goddess'	Paroo Lily Large	5L	1.1ms x 1.1mh
DGR	10	Dietes grandiflora	Wild Iris	5L	800mmh x 800mms
LT	82	* Lomandra longifolia 'Tanaka'	Grass Tree Mat Rush	5L	1000mms x 800mmh
MPY	19	Myoporum parvifolium 'Yareena'	Creeping Boobialla	140mm	1.2ms x 300mmh
NDS	11	Nandina domestica 'Seika'	Sacred Bamboo	5L	1000mmh x 1000mms
PCC	5	Pyrus calleryana Chanticleer	Ornamental Pear	45L	9mh x 4ms
PX	37	Philodendron Xanadu	Philodendron	5L	700mmh x 800mms
RIO	12	Raphiolepis indica 'Oriental Pear'	Oriental Pearl Hawthorn	5L	1mh x 1ms
RJ	53	Russelia equisetiformis	Coral Plant	5L	1.2ms x 700mmh
SAR	47	*Syzygium australe 'Resilience'	Brush Cherry Variety	5L	3mh x 1.5ms
TL	6	**Tristaniopsis laurina	Water Gum	25L	4ms x 7-8mh
VOD	15	Viburnum odoratissima 'Dense Hedge'	Dwarf hedging Viburnum	5L	1.1ms x 1.3mh
WF	12	* Waterhouisia floribunda	Weeping Lillypilly	45L	6ms x 15mh



**LEGEND**

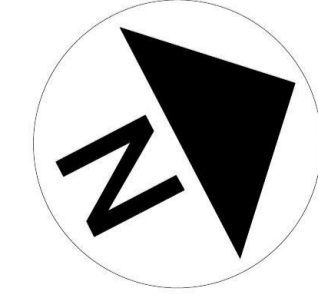
- PROPOSED NATIVE EVERGREEN TREES FOR SOFTENING AND SCREEN PLANTING
- PROPOSED SCREEN HEDGE PLANTING
- PROPOSED NATIVE GRASSES & SEDGES
- PROPOSED LAWN AREAS
- PROPOSED GARDEN EDGES
- BASIX LOW WATER USE PLANTING 188 SQ METRES
- ERL 26.84 EXISTING LEVELS
- FRL 27.60 PROPOSED LEVELS

**LANDSCAPE PROPOSAL**  
UNION ON HIGH  
608-612 HIGH STREET,  
PENRITH, NSW



Landscape, Arboriculture & Horticulture Consultants  
Mobile: 0419696382 Email: ulp@bigpond.com  
Terrence Machin, MAILDM & MAIH  
Post Grad Landscape Design Distinctions Aust  
Dip. Hort. (Arboriculture) (ACFS) Ryde  
Nat. Dip. Hort UK, Horticulture Cert, Ryde

DATE : 08/05/2018  
SCALE : 1:100  
DWG # : 002044/TM ISSUE 'A' SHEET 1-2  
AMENDMENTS :



# LANDSCAPE MAINTENANCE SCHEDULE FOR THE BODY CORPORATE

# SPECIFICATION

Action	Description	Bi-monthly	Monthly	Quarterly	Annually	2 years	5 years	10 years
<b>Establishing Plants</b>	<b>1<sup>st</sup> 12 months Maintenance Contractor</b>							
Weeding	Manual methods preferred	yes						
Replace dead plants		yes						
Check irrigation is working properly		yes						
Pest control	Use environmentally friendly management methods		yes if needed					
Fertilizer	Osmocote® Native Gardens				yes			
Mulching	Blanket cover				yes keep away from base of plant			
<b>Established Landscape Trees &amp; shrubs</b>	<b>Maintenance contractor</b>							
Fertilizer	Osmocote® Native Gardens				yes			
Mulching	75mm depth				yes keep away from base of plant			
Pest control	Use environmentally friendly management methods			yes if needed				
Weeding	Manual methods preferred	yes						
Pruning shrubs	For shape & repair			yes	Prune to improve shape	Remedial pruning to improve shape if needed	Replace shrubs that have died	
Pruning trees	Formative pruning, repair & canopy lift			yes	Prune to improve shape	Remedial pruning to improve shape if needed	Replace trees that don't respond to remedial pruning	
<b>Groundcovers</b>	<b>Maintenance contractor</b>							
Fertilizer	Osmocote® Native Gardens				yes			
Mulching	Blanket cover				yes keep away from base of plant			
Pest control	Use environmentally friendly management methods			yes if needed				
Weeding	Manual methods preferred	yes						
Pruning	Grasses, remove dead leaves		yes		cut back to 25cm if needed	Replace grasses that have not responded & amend soil		

## SPECIFICATION

### Planting

Plants are to be supplied true to type free from disease, pests and in a vigorous well developed condition without being root bound. All plants are to receive osmocote 9 mths slow release fertilizer applied according to manufacturers recommended rates. All trees, shrubs and groundcovers are to receive Water Storage Crystals to there root zone area at planting time, refer to manufacturers application rates. Trees are to be staked as indicated and all plants are to be flood watered in there pots prior to planting and within 30 mins after planting. Variations to the plant species and size due to lack of availability are to be discussed with the landscape consultant before any alterations may take place.

### Soil Mix

#### Natural ground soil mix shall consist of the following :

3 parts by volume existing top soil ,1 part by volume double washed river sand, 1 part by volume friable spent mushroom compost. Rip garden beds to a depth of 400mm prior to placing river sand and compost. Rotary hoe the ingredients to a depth of 300mm (twice) to achieve an even mixed tilth. Thoroughly mix all ingredients to achieve a pH 6.5

#### Planter Boxes on Suspended Concrete Decks :

30% top soil black, 10% graded ash, 10% double washed river sand, 20% composted hardwood sawdust, 20% composted friable mushroom compost, 10% composted pinebark, thoroughly mix all ingredients to achieve a pH 6.5.

### Mulch

Wood & leaf chip mulch is to be spread to a depth of 75mm, blanket cover to all garden beds. Make sure no part of the stem is covered by mulch.

### Timber Edges

Timber edges are to be constructed as detailed. Only treated timber is to be used.

### Turfing

Turf specified is to be cultivated 'Kenda' Kikuyu from an approved turf grower. See turfing details. Turf shall be free from pests, diseases and weeds. Turf is to be laid within 24hrs of lifting. Lay turf with closed butted joints and water thoroughly each section after laying. Top dress joints with one part washed river sand and one part top soil to achieve an even surface free from hollows and ruts. Fertilize the turf with an approved turf fertilizer eg. Shirleys # 18 lawn food and continue to water turf to prevent burning.

### Irrigation

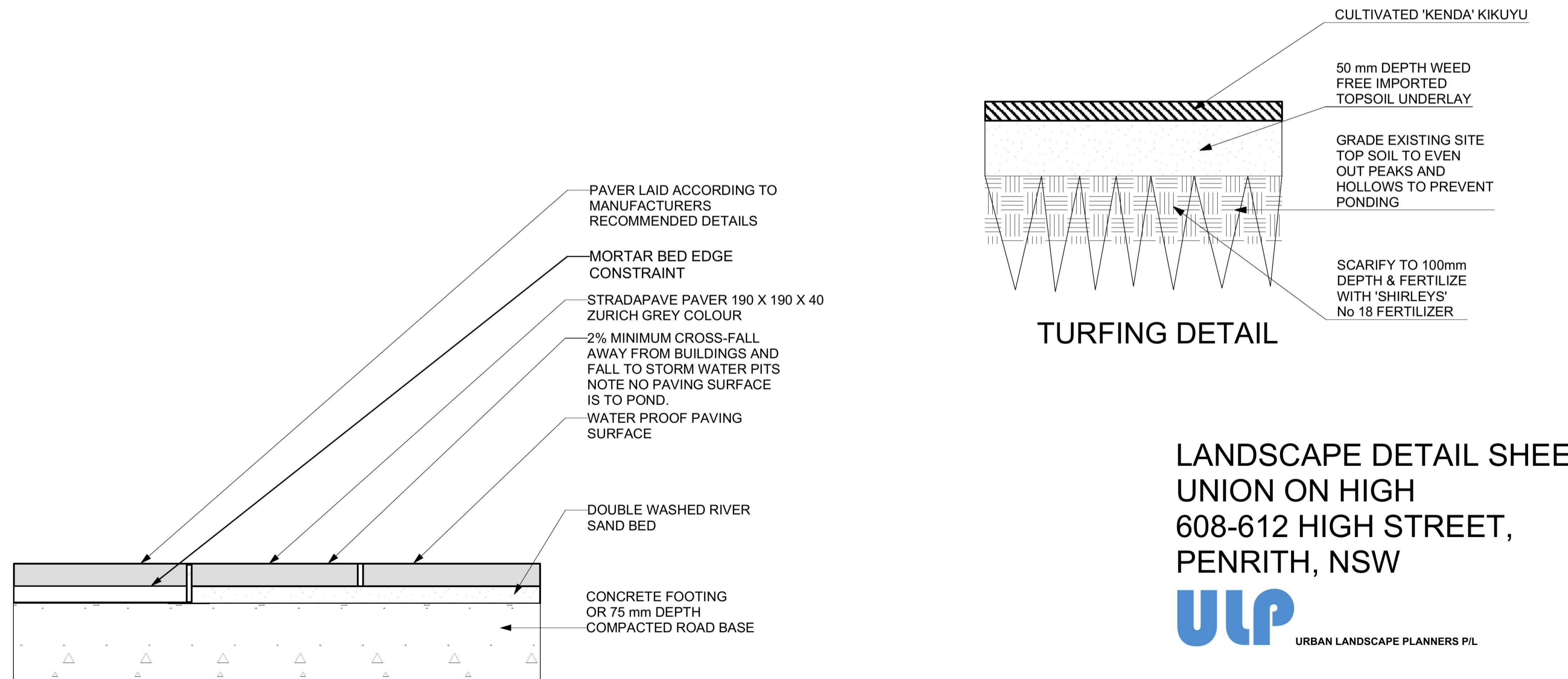
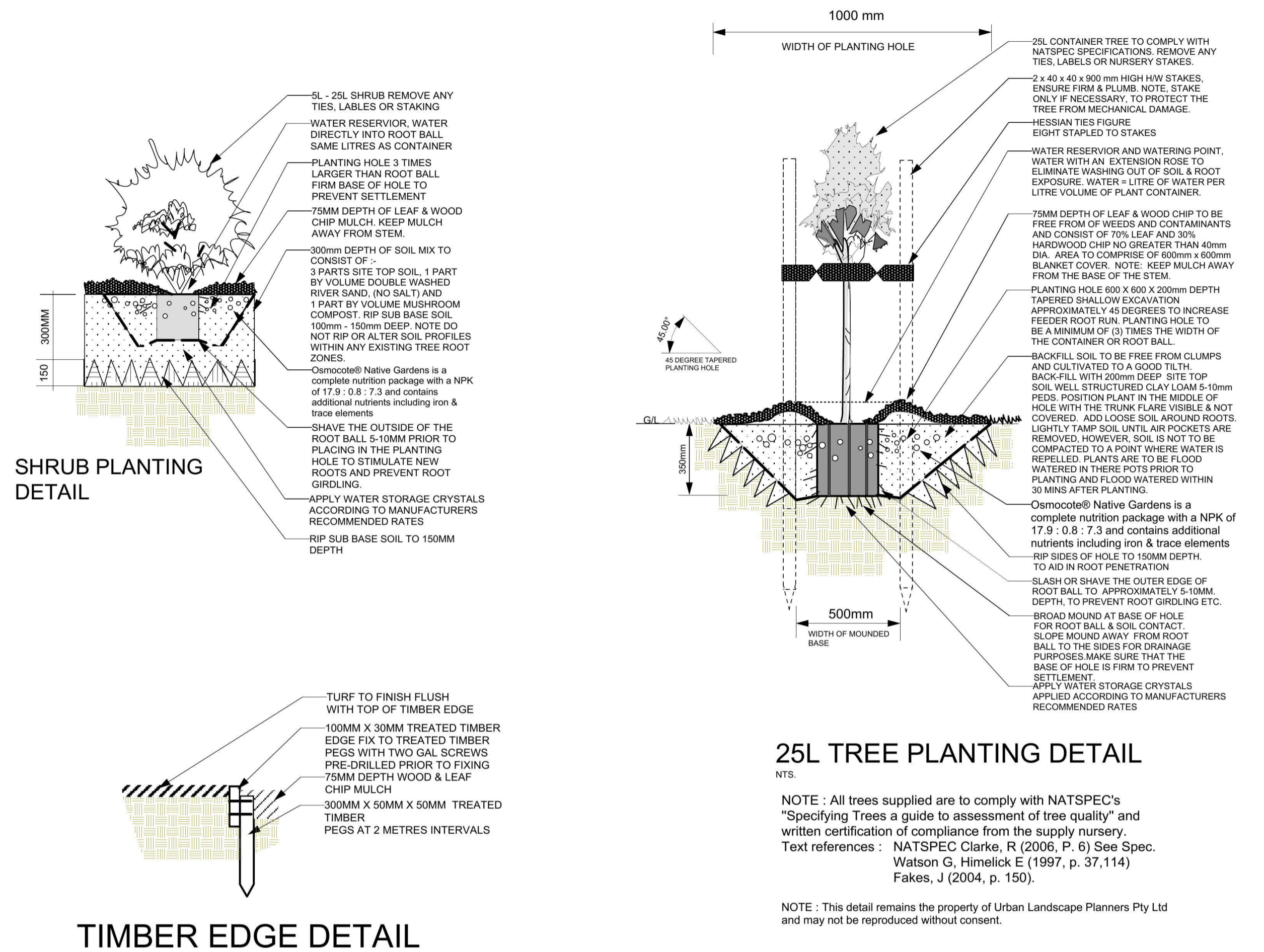
Automatic drip-feed irrigation is to be installed to all garden beds and planters. Netafim tech-line '16' or similar product is to be installed prior to mulching and fixed to the soil surfaces with wire 'U' pegs at 1m intervals to prevent drip line from lifting. Automatic flush valves, air relief valves and filters are to be installed and drip spacings of 300mm are recommended. The drip tubes are to be placed as close as possible to the base of each plant. Back-flow prevention valves are to be installed according to the water Boards regulations concerning irrigation systems. The irrigation contractor is responsible for the maintenance of the irrigation system for the entire 26 week maintenance period. This will entail 3 monthly visits to check watering frequency or adjust watering requirements where there appears a need for reduction or additional watering of specific areas where necessary to maintain optimum plant growth. Drip-feed pipe to be buried 50mm deep into soil, after testing for any malfunctions. Apply 75mm depth of mulch afterwards.

### Maintenance

The landscape contractor is to maintain the site in its entirety for a period of 52 weeks from the date of practical completion. This is to include maintenance on a weekly basis for a period of 3 months, afterwards fortnightly thereafter for the remainder of the maintenance period. The maintenance period shall include the following items :- Ensure there is sufficient soil moisture in all garden beds and planter boxes to sustain optimum plant growth. Plants shall be inspected by the contractor on a fortnightly basis and any plant that has died or is failing to thrive shall be replaced at the contractors own expense, at the next inspection. Replacement of plants are to be carried out with plants of the same genus, species and container size. The contractor is not held responsible for plants that are subject to vandalism or theft. However, the contractor is to notify the landscape consultant prior to any plant replacements or variations to the contract. Spraying to control pests and diseases is to be carried out by a certified person. Top up any mulched areas to attain a depth of 75mm and reinstate and repair any erosion or subsidence which may occur. Rectify any defects or faults that may arise due to failure of materials or workmanship.

### O.H & S

The landscape contractor and his staff must have an up to date Occupational Health and Safety General Induction Card for construction work in NSW.

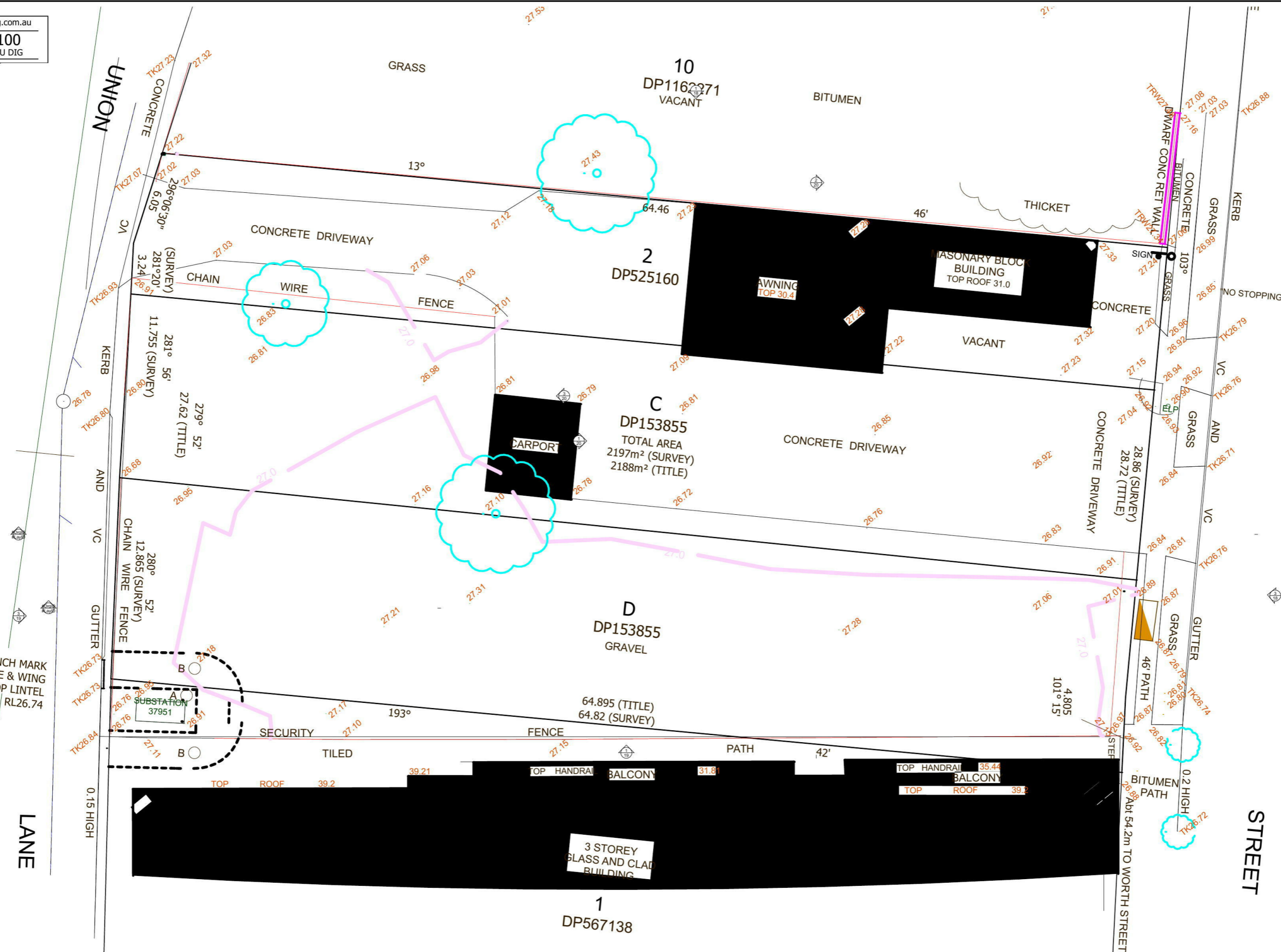


# LANDSCAPE DETAIL SHEET UNION ON HIGH 608-612 HIGH STREET, PENRITH, NSW



Landscape, Arboriculture & Horticulture Consultants  
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 Post Grad Landscape Design Distinctions Aust  
 Dip. Hort. (Arboriculture) (AQF5) Ryde  
 Nat. Dip. Hort UK, Horticulture Cert, Ryde

DATE : 08/05/2018  
 SCALE : 1:100  
 DWG # : 002044/TM ISSUE 'A' SHEET 2-2  
 AMENDMENTS :



3 SURVEY 1:250

The builder shall check and verify all dimensions and verify all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

Client  
**NOR SIDE INVESTMENTS P/L**  
 Project Name  
**UNION ON HIGH**  
 608- 612 HIGH STREET FPNRITH  
 2750

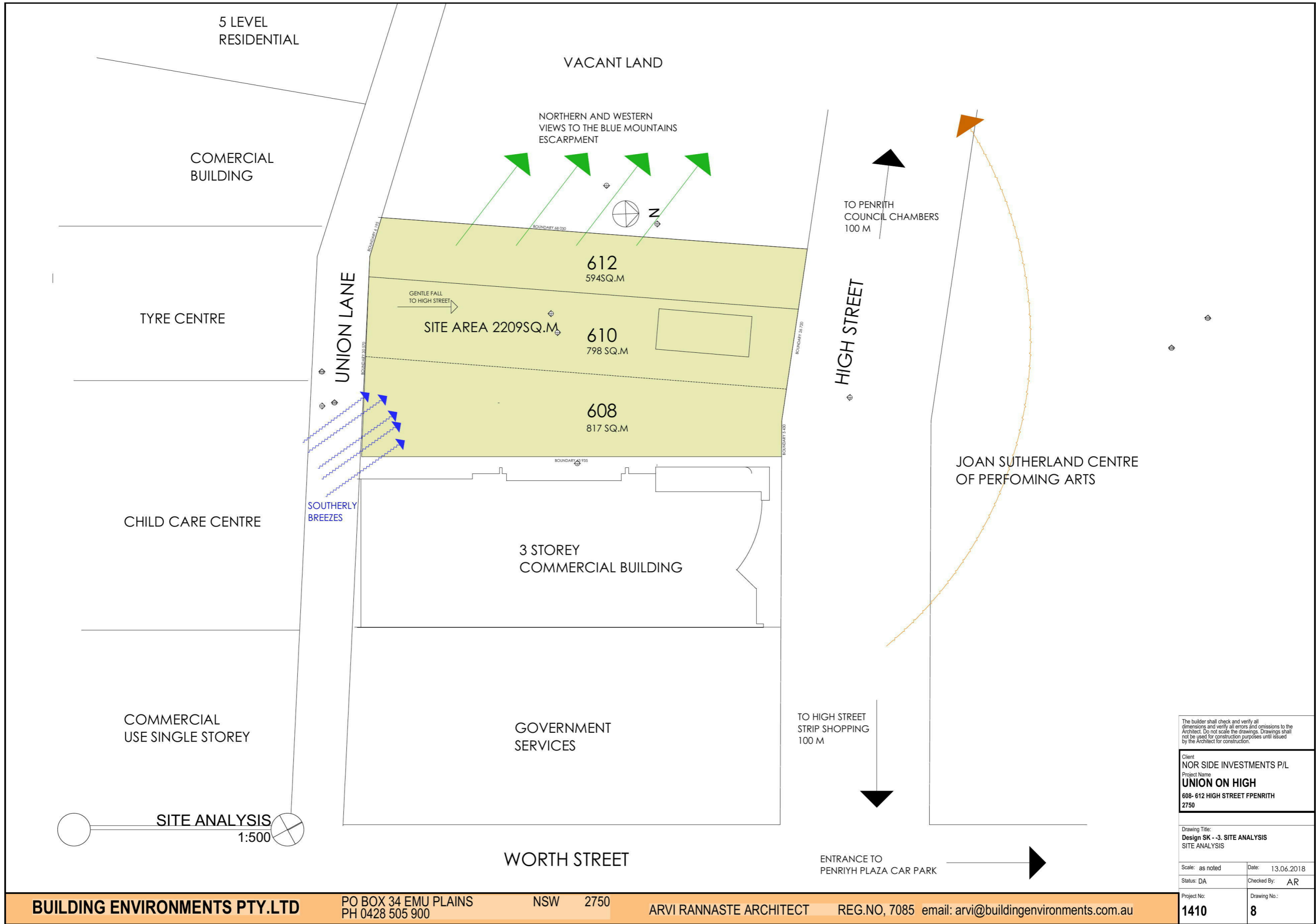
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 SURVEY

Scale: as noted Date: 13.06.2018

Status: DA Checked By: AR

Project No: **1410** Drawing No.: **7**

Plot Date: 8/08/2018



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Client  
**NOR SIDE INVESTMENTS P/L**  
 Project Name  
**UNION ON HIGH**  
**608- 612 HIGH STREET F PENRITH**  
**2750**

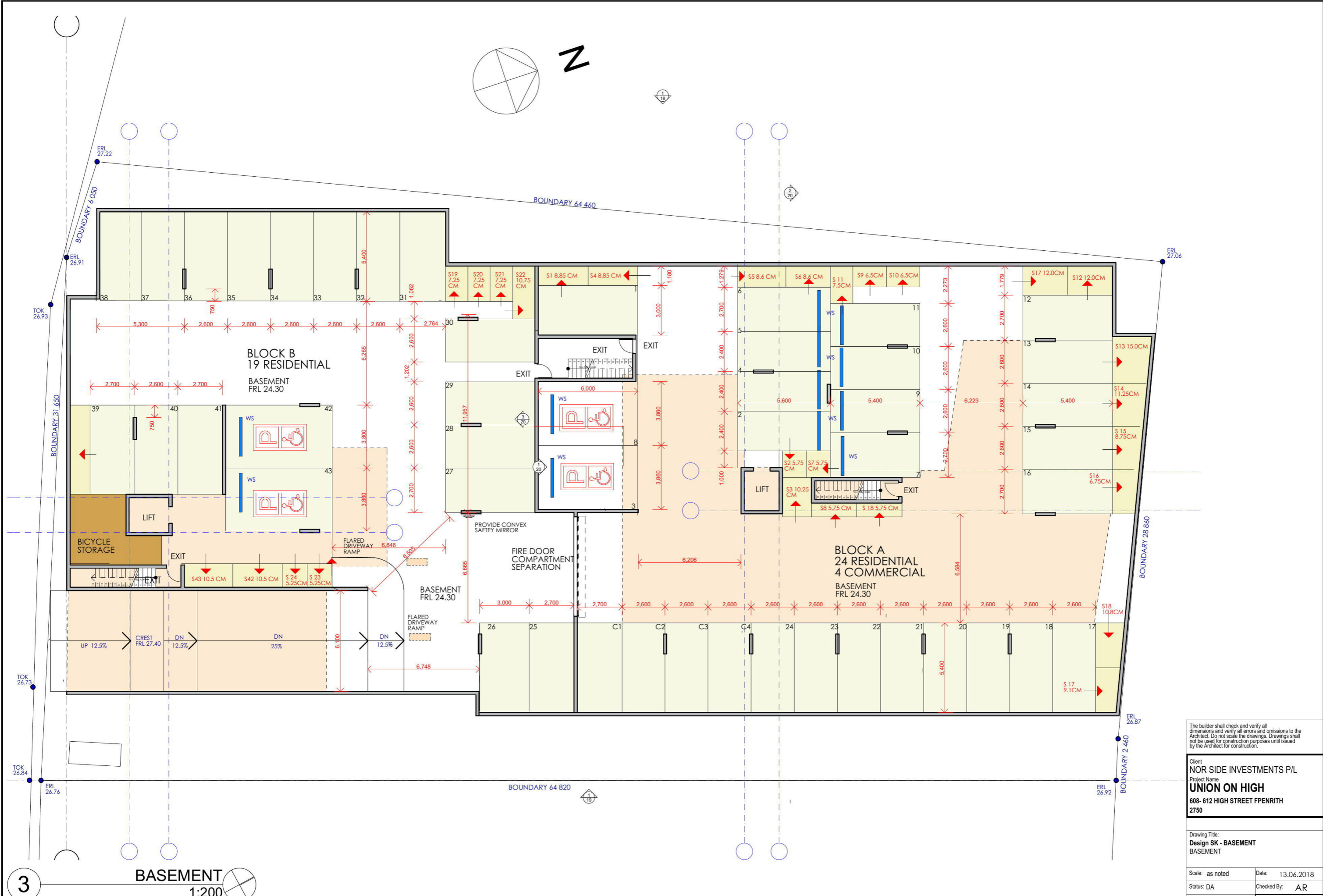
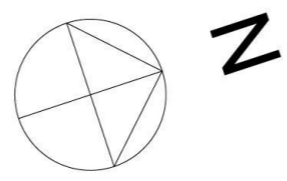
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 SITE ANALYSIS

Scale: as noted Date: 13.06.2018

Status: DA Checked By: AR

Project No.: **1410** Drawing No.: **8**

Plot Date: 8/08/2018



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Client  
**NOR SIDE INVESTMENTS P/L**  
Project Name  
**UNION ON HIGH**  
608- 612 HIGH STREET FPNRITH  
2750

Drawing Title:  
**Design SK - BASEMENT**  
BASEMENT

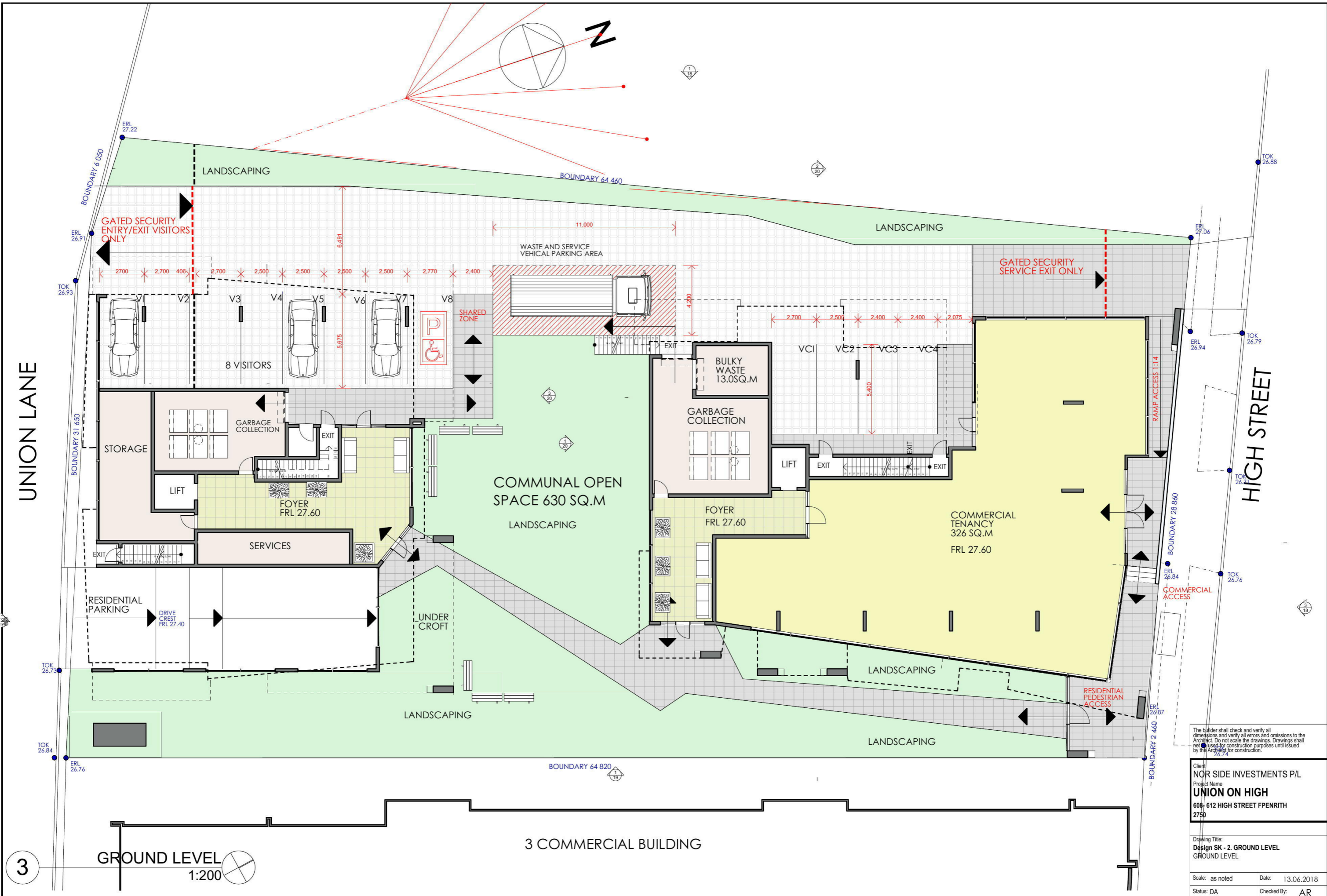
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Status: DA Checked By: AR

Project No: **1410** Drawing No.: **9**

Plot Date: 8/08/2018

**3** BASEMENT 1:200



3  
GROUND LEVEL  
1:200

3 COMMERCIAL BUILDING

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Client:  
NOR SIDE INVESTMENTS P/L  
Project Name:  
**UNION ON HIGH**  
608-612 HIGH STREET FPNRITH  
2750

Drawing Title:  
**Design SK - 2. GROUND LEVEL**  
GROUND LEVEL

Scale: as noted Date: 13.06.2018  
Status: DA Checked By: AR

Project No.: **1410** Drawing No.: **10**

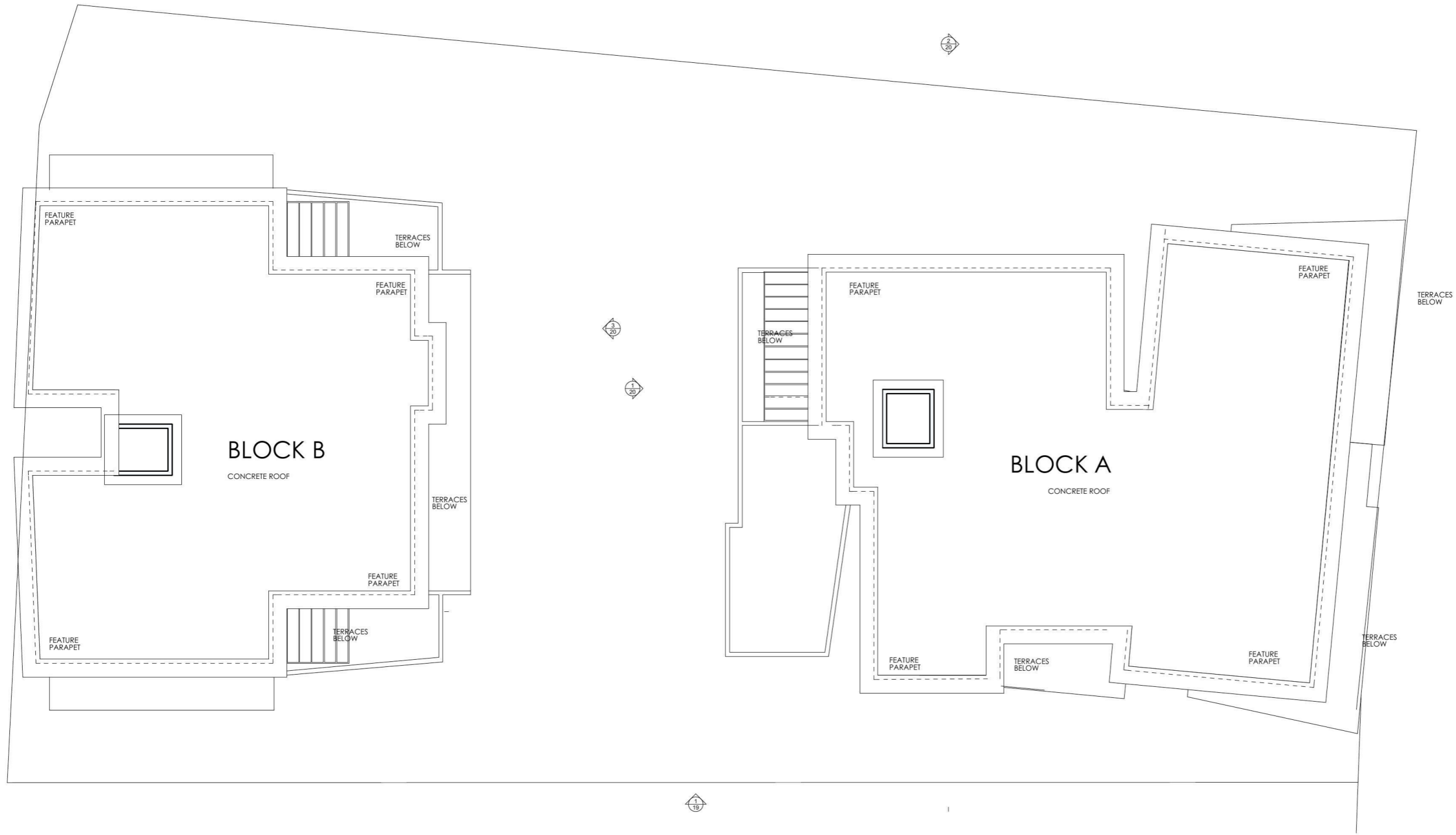
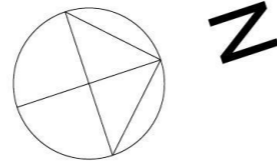
**BUILDING ENVIRONMENTS PTY.LTD**

PO BOX 34 EMU PLAINS  
PH 0428 505 900

NSW 2750

ARVI RANNASTE ARCHITECT

REG.NO, 7085 email: arvi@buildingenvironments.com.au



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**NOR SIDE INVESTMENTS P/L**  
Project Name  
**UNION ON HIGH**  
**608- 612 HIGH STREET FOPENRITH**  
**2750**

Drawing Title:  
**Design SK - 8. ROOF**  
ROOF

Scale: as noted Date: 13.06.2018

Status: DA Checked By: AR

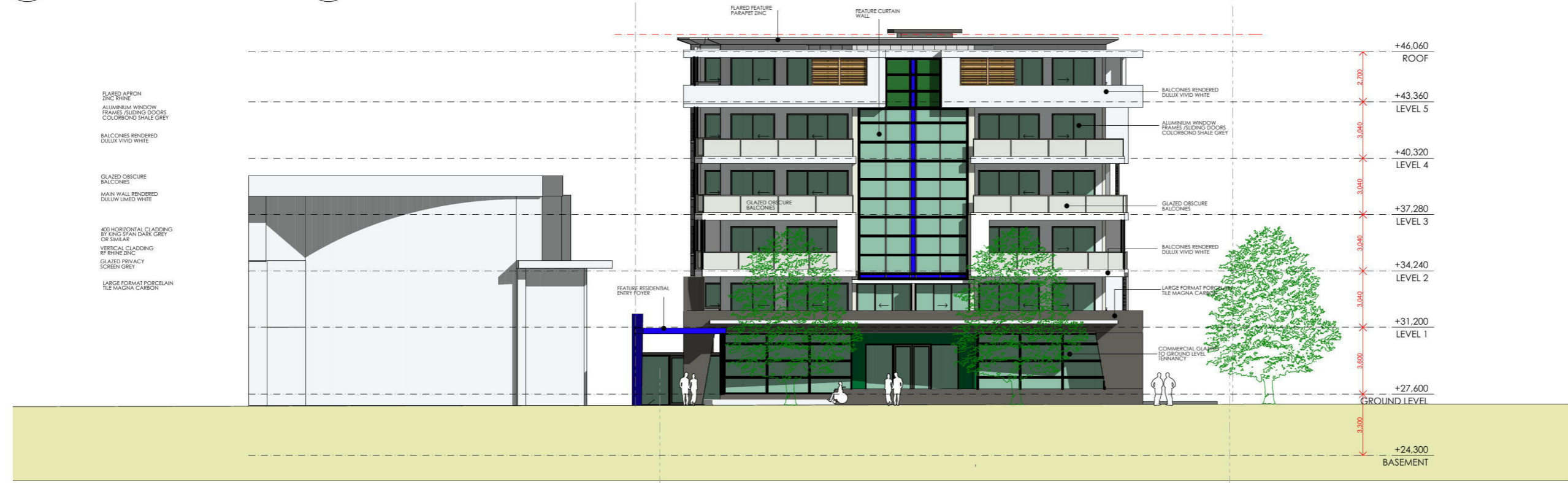
Project No.: **1410** Drawing No.: **17**

Plot Date: 8/08/2018

**3** ROOF  
1:200



1 WEST ELEVATION 1:250



3 NORTH ELEVATION 1:250

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Client  
**NOR SIDE INVESTMENTS P/L**  
 Project Name  
**UNION ON HIGH**  
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 2750

Drawing Title:  
**Design SK - E1 NORTH ELEVATION**  
 NORTH ELEVATION, WEST ELEVATION

Scale: as noted Date: 13.06.2018

Status: DA Checked By: AR

Project No: **1410** Drawing No.: **18**

Plot Date: 8/08/2018





1 EAST ELEVATION 1:250



3 SOUTH ELEVATION 1:250

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Client  
**NOR SIDE INVESTMENTS P/L**  
 Project Name  
**UNION ON HIGH**  
**608- 612 HIGH STREET FPERNITH**  
**2750**

Drawing Title:  
**Design SK - E4 SOUTH ELEVATION**  
 SOUTH ELEVATION, EAST ELEVATION

Scale: as noted Date: 13.06.2018

Status: DA Checked By: AR

Project No: **1410** Drawing No.: **19**

Plot Date: 8/08/2018



1 SOUTH ELEVATION BLOCK A  
1:250



2 SECTION A  
1:250



3 NORTH ELEVATION BLOCK B  
1:250

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Client  
NOR SIDE INVESTMENTS P/L  
Project Name  
**UNION ON HIGH**  
608- 612 HIGH STREET FPNRITH  
2750

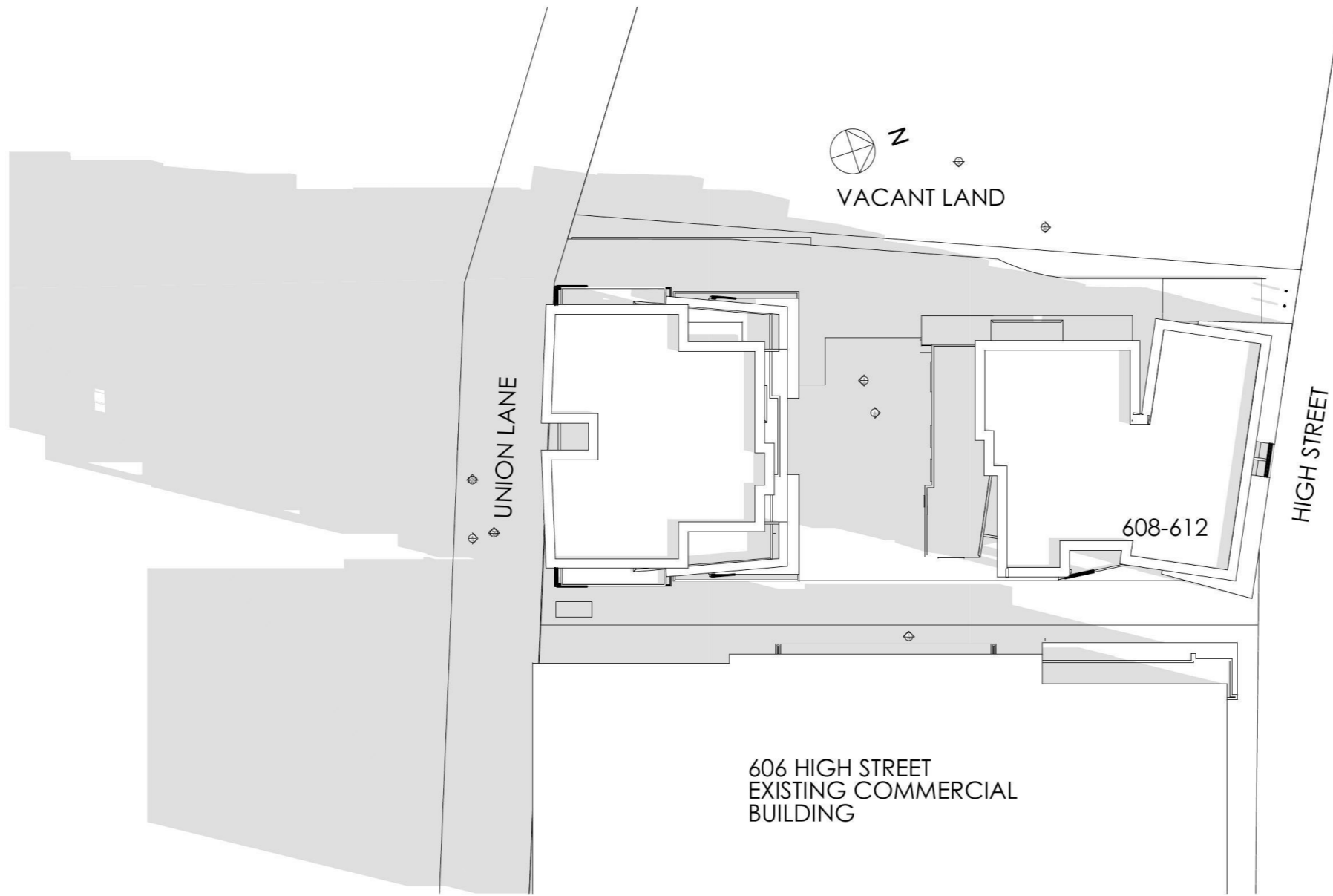
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SOUTH ELEVATION BLOCK A, NORTH  
ELEVATION BLOCK B, SECTION A

Scale: as noted Date: 13.06.2018

Status: DA Checked By: AR

Project No.: 1410 Drawing No.: 20

Plot Date: 8/08/2018



3 ————— 9am  
1:500

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Client  
NOR SIDE INVESTMENTS P/L  
Project Name  
**UNION ON HIGH**  
608- 612 HIGH STREET FOPENRITH  
2750

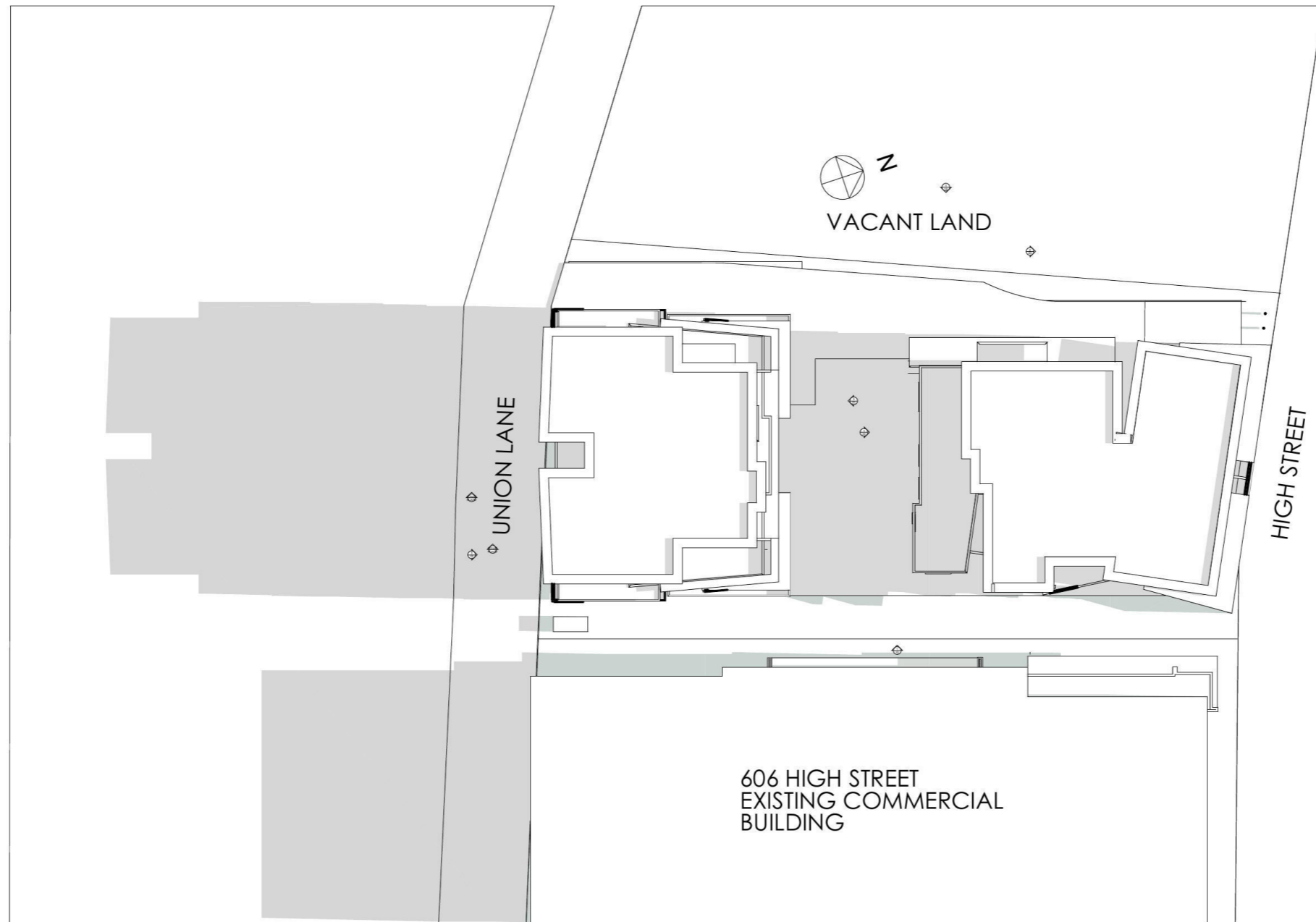
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9am

Scale: as noted Date: 13.06.2018

Status: DA Checked By: AR

Project No.: **1410** Drawing No.: **21**

Plot Date: 8/08/2018



3 10m 1:500

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Client  
 NOR SIDE INVESTMENTS P/L  
 Project Name  
**UNION ON HIGH**  
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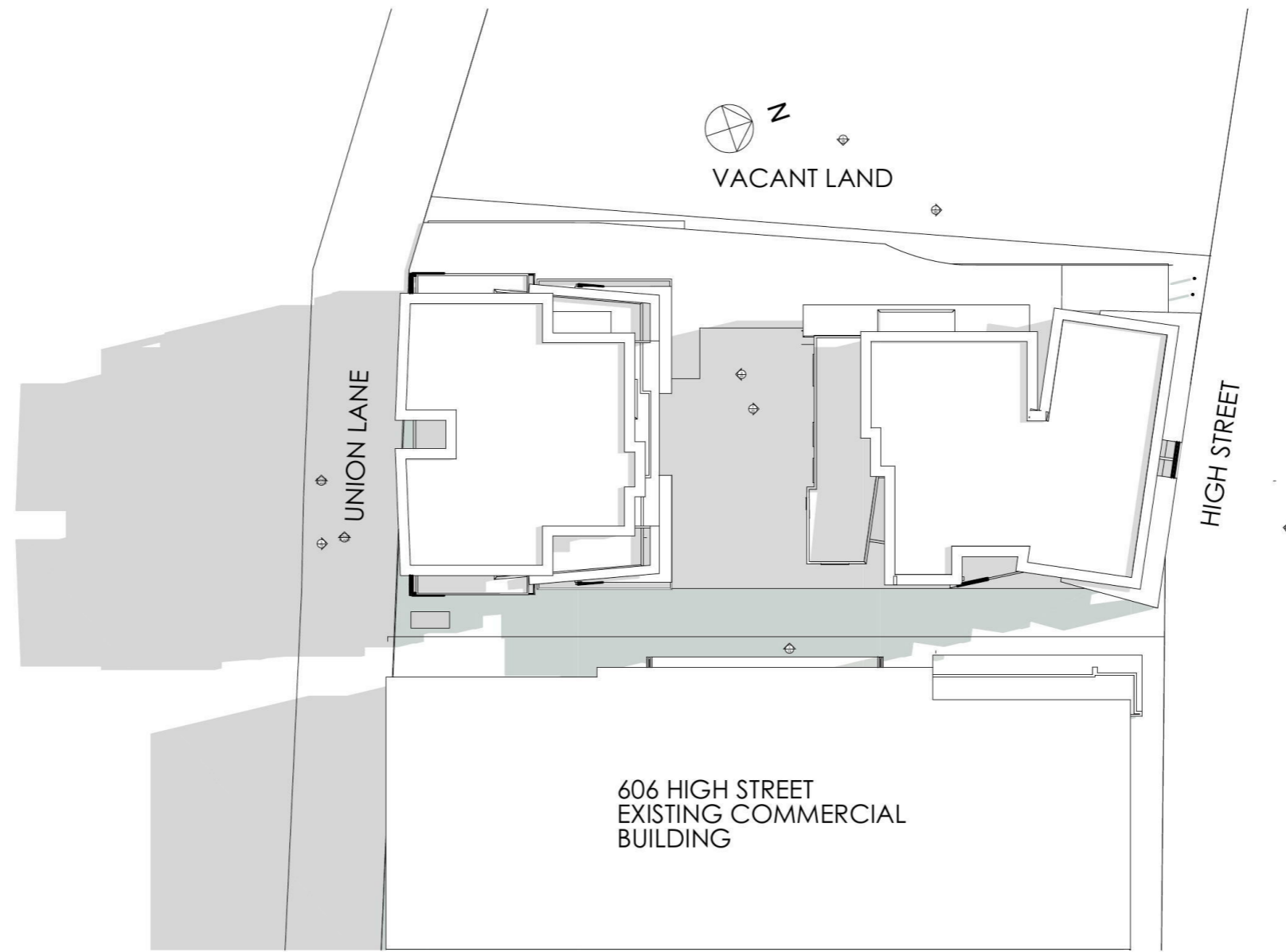
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**Design SK - 10. 10.0 AM**  
 10am

Scale: as noted Date: 13.06.2018

Status: DA Checked By: AR

Project No:  
**1410** Drawing No.:  
**22**

Plot Date: 8/08/2018



3 ————— 11am  
1:500

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Client  
NOR SIDE INVESTMENTS P/L  
Project Name  
**UNION ON HIGH**  
608- 612 HIGH STREET FPERNITH  
2750

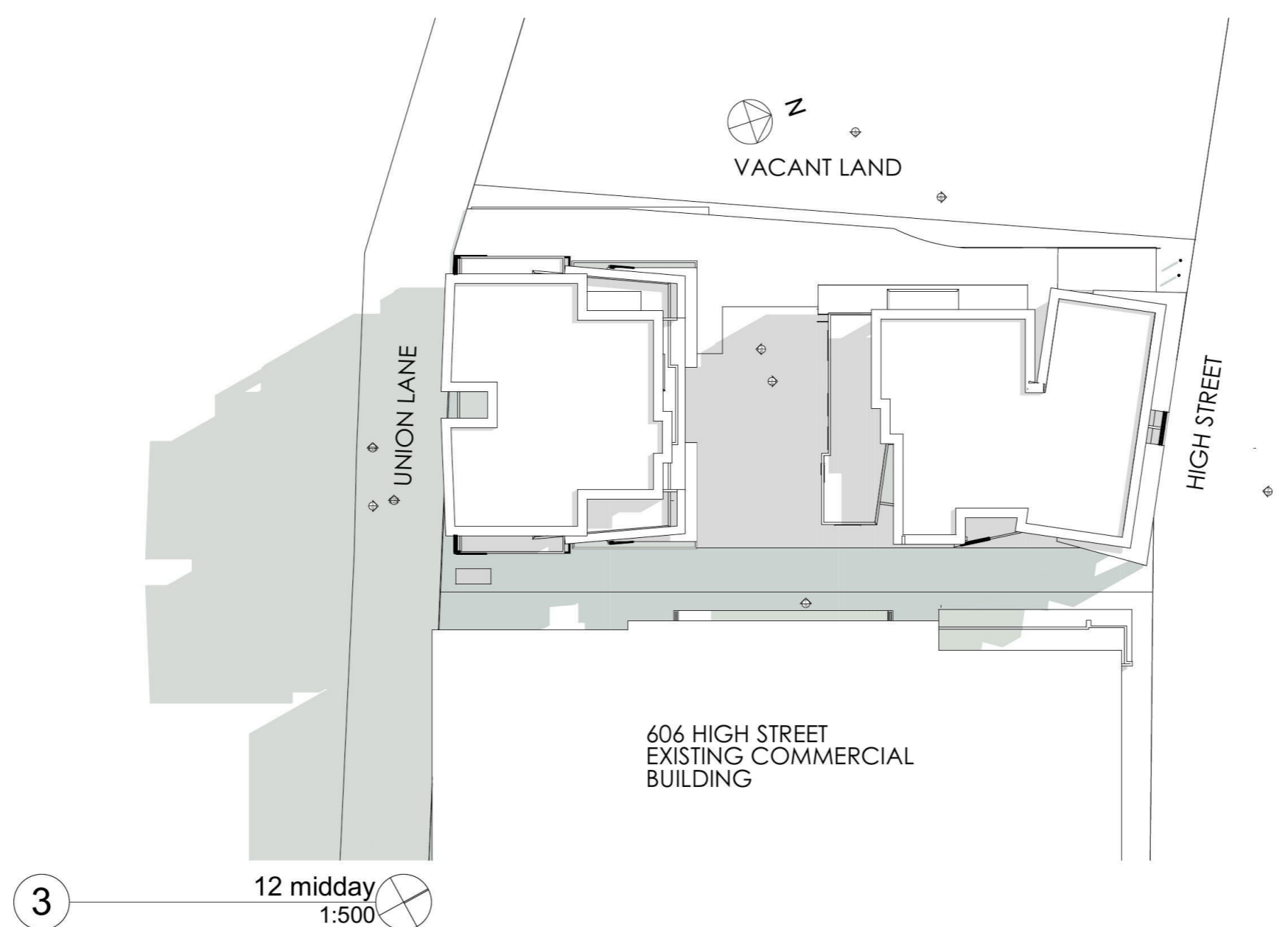
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11am

Scale: as noted Date: 13.06.2018

Status: DA Checked By: AR

Project No: **1410** Drawing No.: **23**

Plot Date: 8/08/2018



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Client  
**NOR SIDE INVESTMENTS P/L**  
 Project Name  
**UNION ON HIGH**  
**608- 612 HIGH STREET FPERNITH**  
**2750**

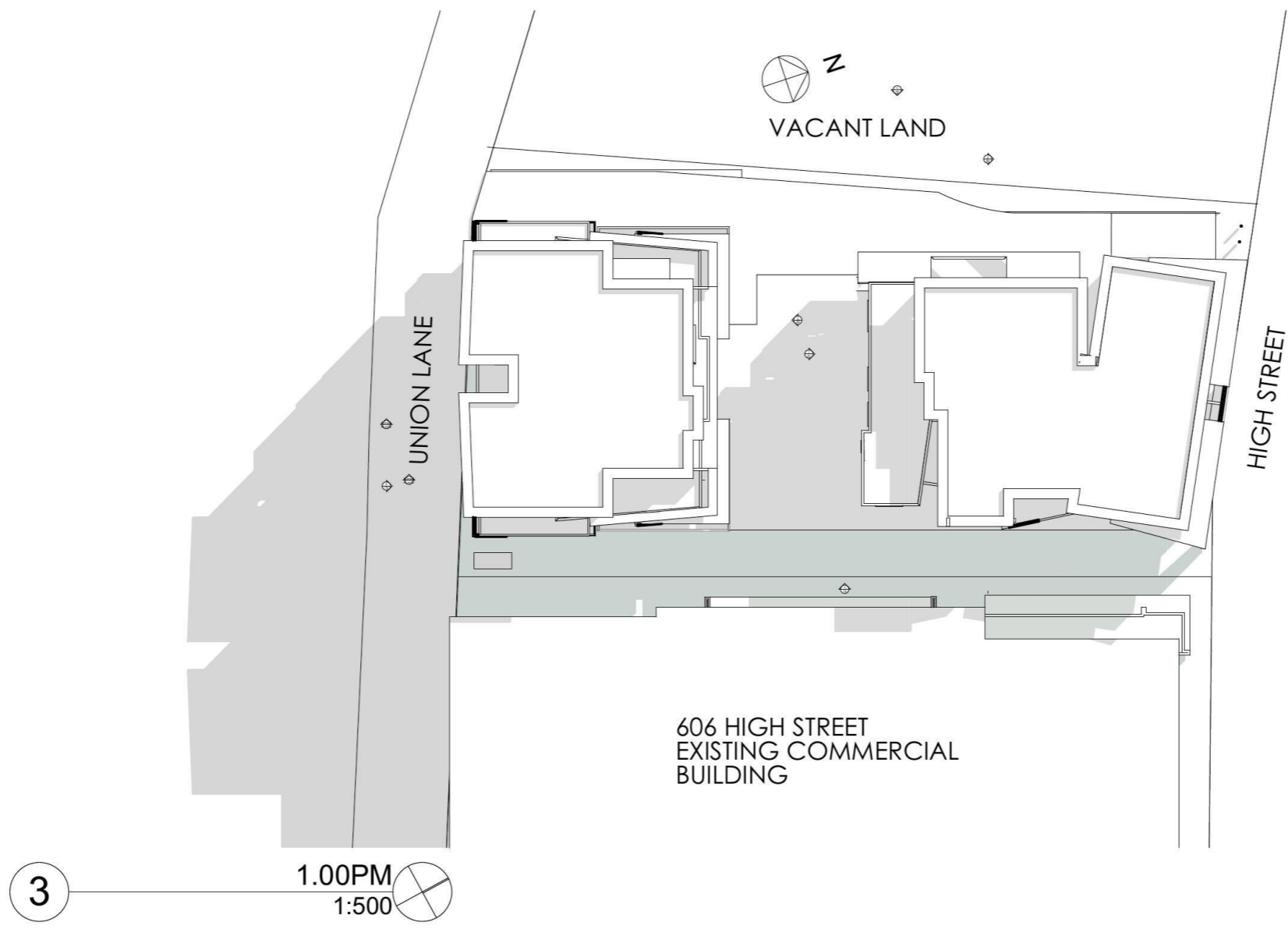
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**Design SK - 12. 12. 0 MIDDAY**  
 12 midday

Scale: as noted Date: 13.06.2018

Status: DA Checked By: AR

Project No:  
**1410**  
 Drawing No.:  
**24**

Plot Date: 8/08/2018



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Client  
**NOR SIDE INVESTMENTS P/L**  
 Project Name  
**UNION ON HIGH**  
**608- 612 HIGH STREET FOPENRITH**  
**2750**

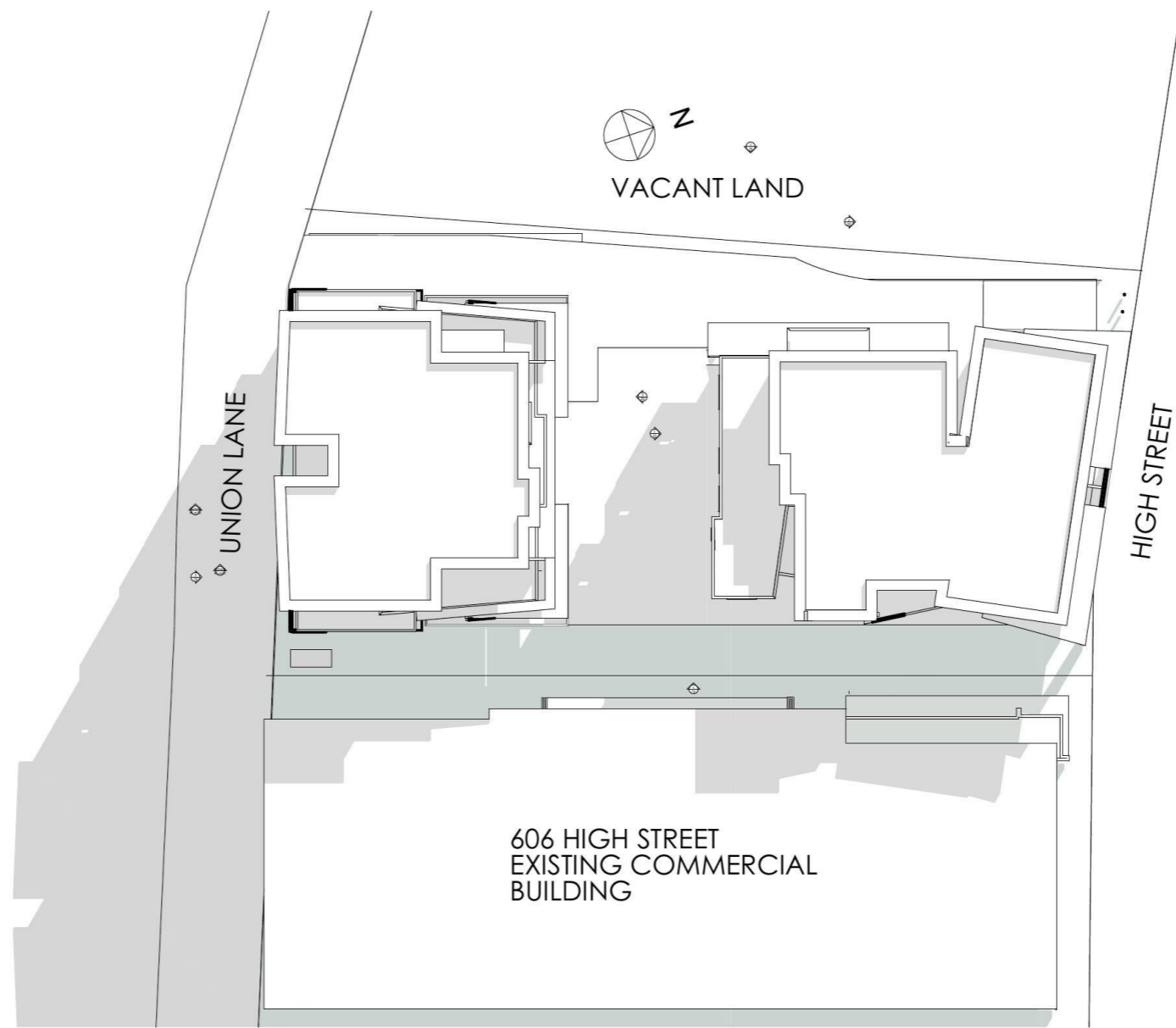
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 1.00PM

Scale: as noted Date: 13.06.2018

Status: DA Checked By: AR

Project No:  
**1410**  
 Drawing No.:  
**25**

Plot Date: 8/08/2018



3 ————— 2.00 PM  
1:500

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Client  
**NOR SIDE INVESTMENTS P/L**  
 Project Name  
**UNION ON HIGH**  
**608- 612 HIGH STREET FPERNITH**  
**2750**

Drawing Title:  
**Design SK - 14. 2.0 PM**  
 2.00 PM

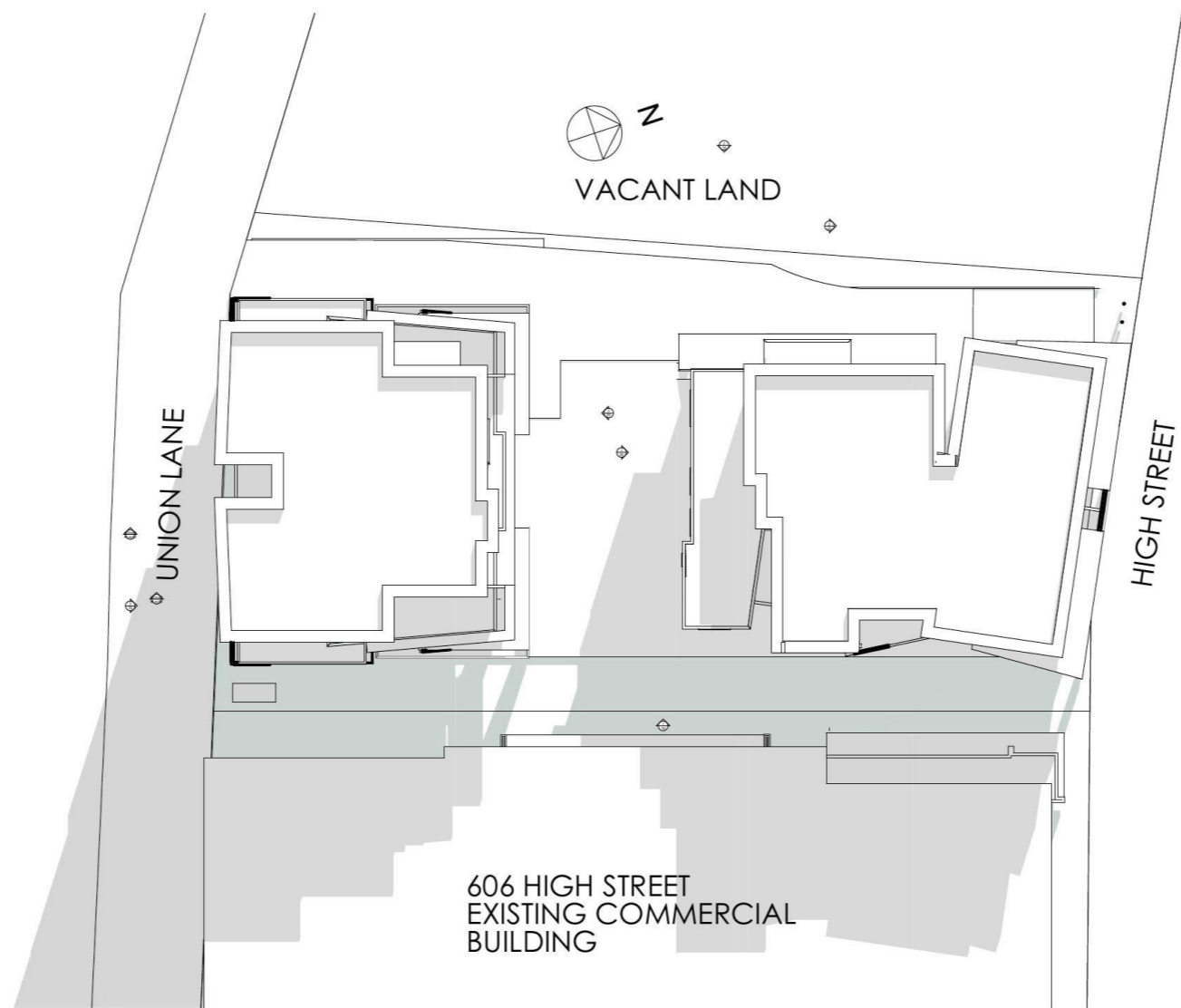
Scale: as noted Date: 13.06.2018

Status: DA Checked By: AR

Project No: **1410** Drawing No.: **26**

Plot Date: 8/08/2018





3 3.00 PM  
1:500

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Client  
NOR SIDE INVESTMENTS P/L  
Project Name  
**UNION ON HIGH**  
608- 612 HIGH STREET FPERNITH  
2750

Drawing Title:  
**Design SK - 15. 3.0 PM**  
3.00 PM

Scale: as noted Date: 13.06.2018

Status: DA Checked By: AR

Project No: **1410** Drawing No.: **27**

Plot Date: 8/08/2018



① HIGH STREET N  
1:1



③ HIGH STREET NW  
1:0.71

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Client  
NOR SIDE INVESTMENTS P/L  
Project Name  
**UNION ON HIGH**  
608- 612 HIGH STREET FPERITH  
2750

Drawing Title:  
**Design SK - 3D VIEWS**  
VIEW A, VIEW C, HIGH STREET N, HIGH STREET NW

Scale: as noted Date: 13.06.2018

Status: DA Checked By: AR

Project No: **1410** Drawing No.: **A**

Plot Date: 8/08/2018



1 WESTVIEW FROM UNION LANE  
1:0.80



3 UNION LANE  
PO BOX 84 PLAINS NSW 2750

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Client NOR SIDE INVESTMENTS P/L	
Project Name <b>UNION ON HIGH</b>	
608- 612 HIGH STREET FPENRITH 2750	
Drawing Title: <b>Design SK - 3D VIEWS</b>	
VIEW E, VIEW F, WESTVIEW FROM UNION LANE, UNION LANE	
Scale: as noted	Date: 13.06.2018
Status: DA	Checked By: AR
Project No: <b>1410</b>	Drawing No.: <b>B</b>
Plot Date:	8/08/2018

UNION LANE

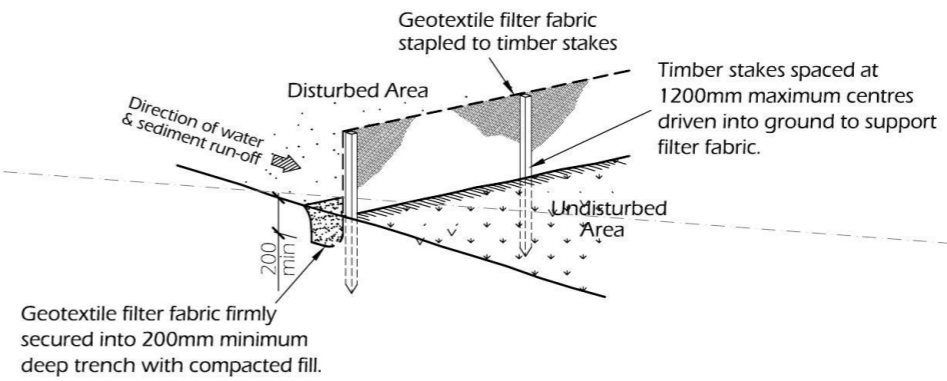
HIGH STREET

SEDIMENT CONTROL BARRIER

612

610

608



**DETAIL - GEOTEXTILE FILTER FABRIC FENCE. Not to Scale**

3 SEDIMENT CONTROL BARRIER 1:200

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Client  
 NOR SIDE INVESTMENTS P/L  
 Project Name  
**UNION ON HIGH**  
 608- 612 HIGH STREET FPENRITH  
 2750

Drawing Title:  
**Design SK - SEDIMENT CONTROL BARRIER**  
 VIEW J, VIEW K, ELEVATED NORTH VIEW,  
 SEDIMENT CONTROL BARRIER

Scale: as noted Date: 13.06.2018  
 Status: DA Checked By: AR

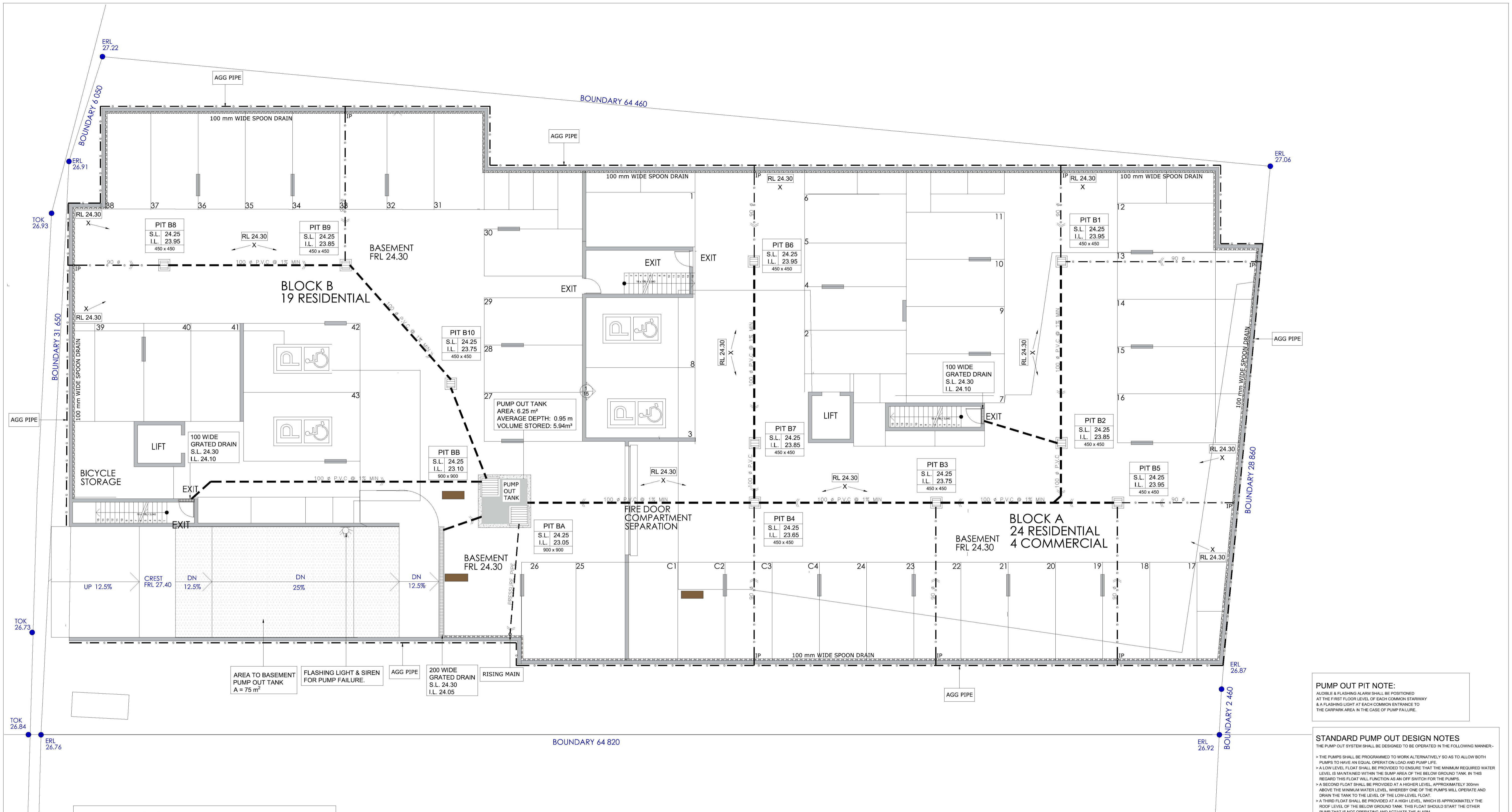
Project No: **1410** Drawing No.: **C**

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**PUMP OUT PIT NOTE:**  
 ABOVE & FLASHING ALARM SHALL BE POSITIONED AT THE FIRST FLOOR LEVEL OF EACH COMMON STAIRWAY & A FLASHING LIGHT AT EACH COMMON ENTRANCE TO THE CARPARK AREA IN THE CASE OF PUMP FAILURE.

**STANDARD PUMP OUT DESIGN NOTES**  
 THE PUMP OUT SYSTEM SHALL BE DESIGNED TO BE OPERATED IN THE FOLLOWING MANNER:-

- THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATIVELY SO AS TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.
- A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.
- A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE AND DRAIN THE TANK TO THE LEVEL OF THE LOW LEVEL FLOAT.
- A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.
- AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT AND A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.

**PUMP DESIGN SUMMARY**  
 CATCHMENT AREA = 75 m<sup>2</sup> (RAMP & STAIR & RAIN SLOPE EFFECT)

BELOW GROUND TANK  
 1:100 ARI 90 MINUTE STORM = 52.6 mm/hr  
 VOLUME REQUIRED = 71 x 1.5 x 0.0526 = 5.6 m<sup>3</sup>

PUMP HEAD = 4.15 m  
 RAINFALL INTENSITY FOR CALCULATIONS = 100 YEAR ARI  
 STORM DURATION 5 MINUTE = 206.1mm/h  
 PUMP RATE REQUIRED = 75 x 206.1 / 3600 = 4.29 L/s

ADOPT TWO - SABRE KS-20 SUBMERSIBLE PUMPS

**STORMWATER DRAINAGE BASEMENT PLAN**  
 SCALE 1:100

**CONCEPT PLAN ONLY**

GFL. 00.00	GROUND FLOOR LEVEL	GP	GULLY PIT	→	GROUND FALL
FFL. 00.00	FINISH FLOOR LEVEL	GP	GARDEN GULLY PIT	→	OVERLAND FLOW
A,B,C,D, etc.	REFER TO PIPE SCHEDULE	O/F	OVERFLOW - 200x100	—	DRAINAGE PIPE
L1	PIPE LABEL	RWH	RAIN WATER HEAD	⊙	CLEANING EYE
PIT P1	SURFACE INLET PIT	SP:90°	DP WITH 90° SPREADER	⊞	PIT: SIZE AS MARKED
● dp	DOWNPIPE: 90°mm	BG	BALCONY GULLY PIT	○	FLOOR GULLY

Revision	Amendment	Issue date	Issue	Issued to	Issue date
A	ISSUE FOR DA APPROVAL	25/07/18			

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Project  
 PROPOSED DEVELOPMENT  
 612 HIGH STREET  
 PENRITH

Client  
 Architect / Project Manager

Drawing Title  
 STORMWATER MANAGEMENT  
 BASEMENT PLAN

Scales  
 A1 - 1:100

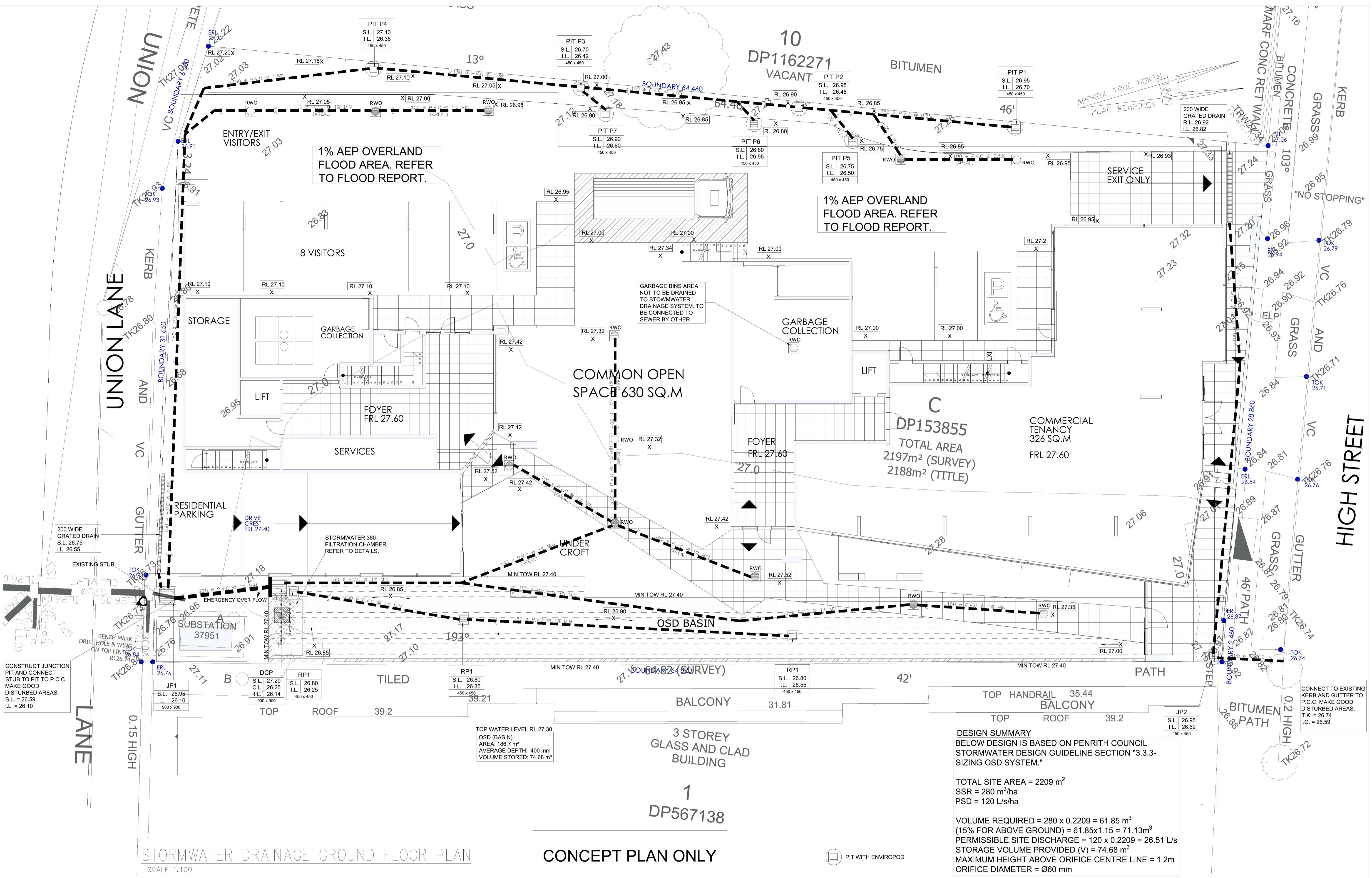
Designed  
 ZK

Drafted  
 MK

Approved  
 ZK

Revision  
 A

Drawing No.  
 C18087 - SW01



STORMWATER DRAINAGE GROUND FLOOR PLAN  
SCALE 1:100

CONCEPT PLAN ONLY

**DESIGN SUMMARY**  
 BELOW DESIGN IS BASED ON PENRITH COUNCIL STORMWATER DESIGN GUIDELINE SECTION "3.3.3- SIZING OSD SYSTEM."

TOTAL SITE AREA = 2209 m<sup>2</sup>  
 SSR = 280 m<sup>3</sup>/ha  
 PSD = 120 L/s/ha

VOLUME REQUIRED = 280 x 0.2209 = 61.85 m<sup>3</sup>  
 (15% FOR ABOVE GROUND) = 61.85 x 1.15 = 71.13 m<sup>3</sup>  
 PERMISSIBLE SITE DISCHARGE = 120 x 0.2209 = 26.51 L/s  
 STORAGE VOLUME PROVIDED (V) = 74.68 m<sup>3</sup>  
 MAXIMUM HEIGHT ABOVE ORIFICE CENTRE LINE = 1.2m  
 ORIFICE DIAMETER = Ø60 mm

Revision	Amendment	Issue date	Issue	Issued to	Issue date
A	ISSUE FOR DA APPROVAL	25/07/18			

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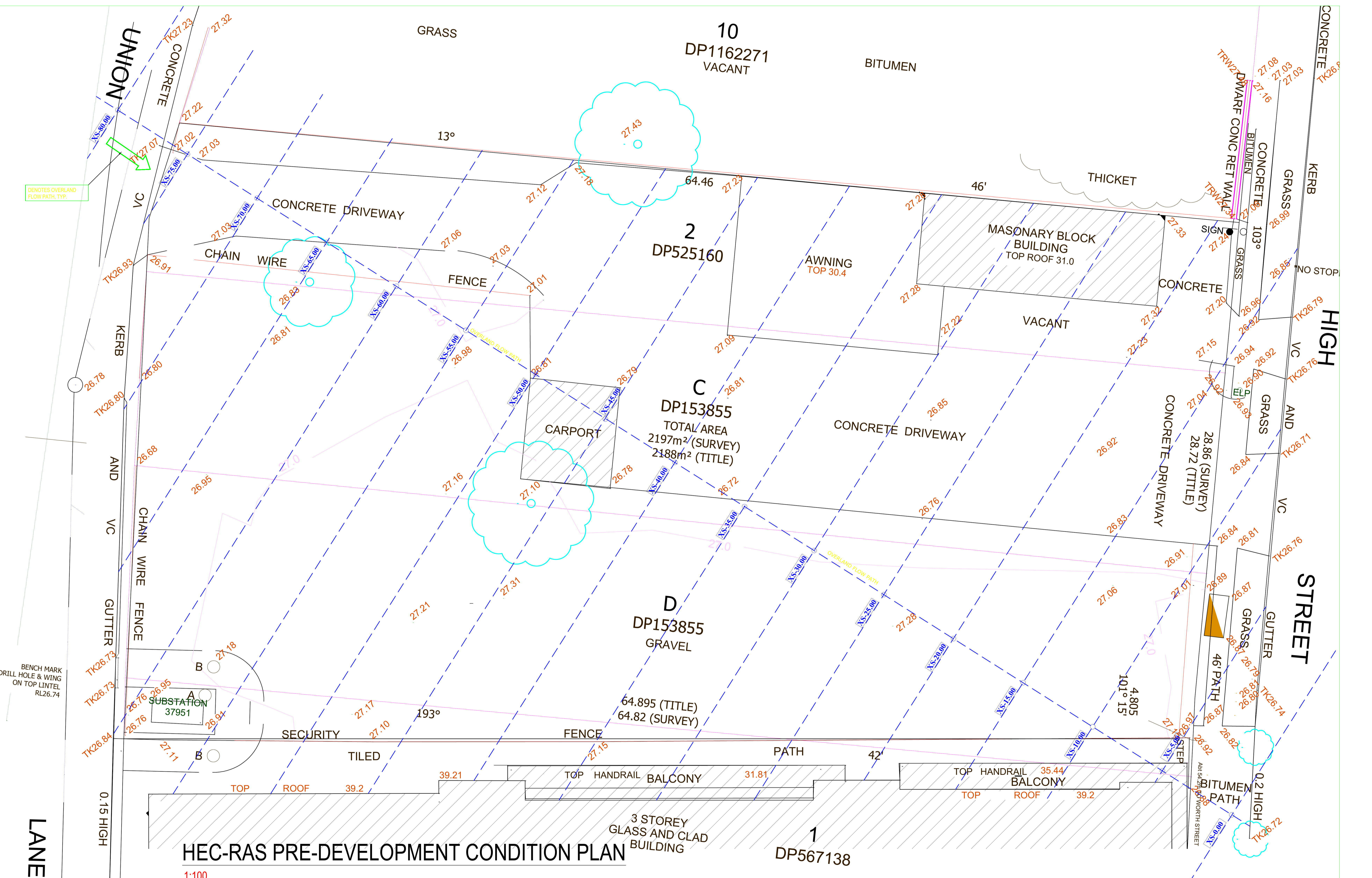
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Project  
 PROPOSED DEVELOPMENT  
 612 HIGH STREET  
 PENRITH

Client

Architect / Project Manager

Drawing Title		Scales		Designed	Drafted
STORMWATER MANAGEMENT GROUND FLOOR PLAN		A1 - 1:100		ZK	MK
Drawing No.	C18087 - SW02	Approved	ZK	Revision	A



**HEC-RAS PRE-DEVELOPMENT CONDITION PLAN**

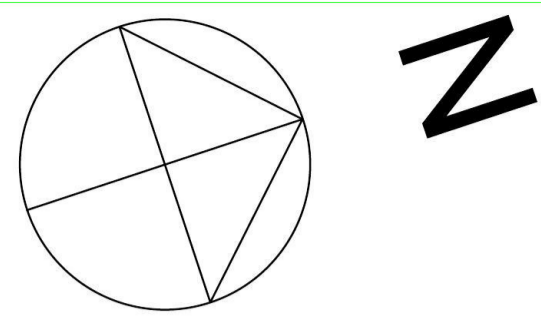
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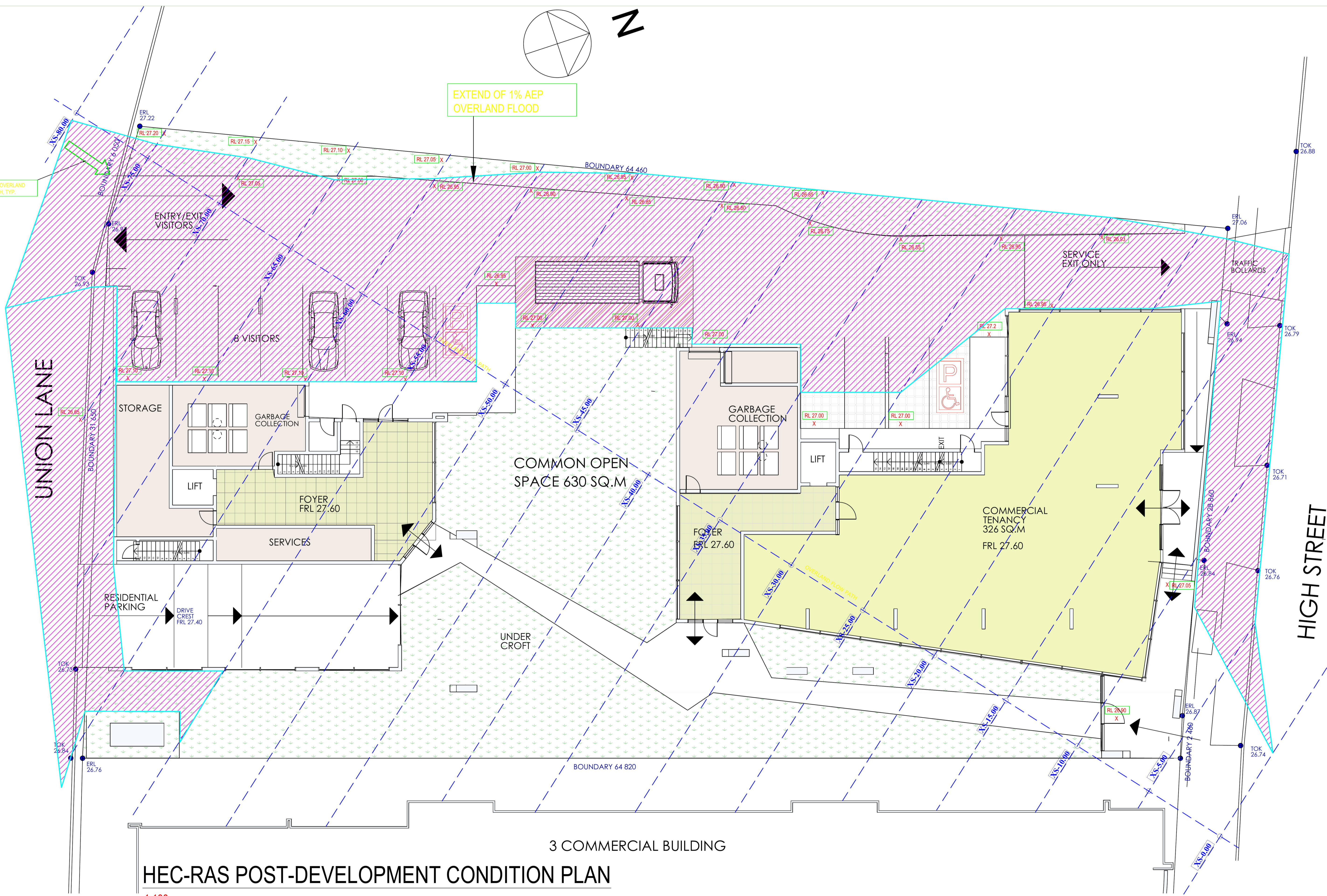
Project: **PROPOSED DEVELOPMENT**  
**612 HIGH STREET**  
**PENRITH**  
 Client:  
 Architect / Project Manager:

Drawing Title <b>HEC-RAS EXISTING CONDITION PLAN</b>		
Scale: A1 - 1:100	Designed ZK	Drafted MK
Drawing No. C18087 - F01	Approved ZK	Revision A



EXTEND OF 1% AEP OVERLAND FLOOD

DENOTES OVERLAND FLOW PATH, TYP.



3 COMMERCIAL BUILDING

# HEC-RAS POST-DEVELOPMENT CONDITION PLAN

1:100

Revision	Amendment	Issue date	Issue	Issued to	Issue date
A	ISSUE FOR DA APPROVAL	19-06-2018			



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Project: PROPOSED DEVELOPMENT  
 612 HIGH STREET  
 PENRITH  
 Client:  
 Architect / Project Manager:

Drawing Title HEC-RAS POST DEVELOPMENT CONDITION PLAN		
Scales A1 - 1:100	Designed ZK	Drafted MK
Drawing No. C18087 - F01	Approved ZK	Revision A