ENGINEERING SERVICES SPATIALS

47092_ESP_01 - Newcastle East End Stage 2 & 3

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Date 16.12.2022 - Revision 2

Legend

This legend below indicates the colour scheme used to identify which engineering discipline it is.

Blocks	Numbers	Engineering Discipline
	10	Mechanical Services
	10	Electrical Services
	10	Hydraulic Services
	10	Fire Protection Services
	(10)	Lifts

Coordination Actions

Coordination issues are typically clouded in red with a red number assigned. This table summarises the details of each issue including any suggested changes to resolve that issue.

Reference No.	Action	Issue status
1	Fire tank location and design will need to be coordinated around the nearby columns.	Open
2	We strongly recommend coordinating with a fire engineer the preferred location of the fire pump room for Stage 3. Initial looks suggest that neither Hunter, Thorn or Laing Street appear suitable for a fire truck hardstand.	Open
3	We strongly recommend coordinating with a fire Engineer and the BCA regarding the Stair pressurisation system required, particulary for Stage 4 and its sloped site.	Open
6	Confirm your preferred lift shaft dimensions, and if you wish to remain consistent through the sites. Also ensure the lift shaft locations remain vertically aligned.	Open
	We have assumed 4NE is under 25m effective height, based on your information. However it does appear like it may be over. We strongly recommend confirmation from BCA, or a fire	
7	Engineered solution will be required. The Stage 4 Carpark Ventilation supply air is being taken in from the Facade. Confirm with a	Open
11	sectional view that this is achievable. Some Hydrant and sprinkler zone valve assemblies require some additional work to ensure their	Open
12 13	location is compliant. Water feature hasn't been considered in hydraulic or electrical calculations	Open Open
14	Ensure the Stage 3 Carpark Ventilation exhaust air is at least 6m from any window openings. 2.9sqm is required. Coordination will be required on the exhaust stratergy.	Open
15	The core layout for Building 3N needs to be coordinated around the location of the pool, to ensure anything that needs to be vertically aligned to the roof can.	
15	Horizontal runs of Kitchen exhaust shafts should be avoided when possible due to access panels being required every 3m. Due to the pool location, this means the kitchen exhaust shafts need to	Open
16	be located in the western part of the core. This also means longer shaft runs on the ground floor.	Open
17	There is currently insufficient space in Building 3S's core to fit all the required spatials. We recommend a layout change, particularly of the garbage chute location. Addtionally the level 5 floor plan change will require some cupboards to be relocated. There is insufficient space on the roof of 3S to fit all the required plant. Stairs on L11 clash with	Open
	risers, particularly lobby relief (54). The high quantity of duct risers result in a congested plant room, and it is unlikely that entry via a door from the fire stairs would be achievable. Consider access via lifts. Retail condensers (84), stair pressurisation (70) and kitchen exhaust (96) must discharge upwards, so the plant area should be open above. Stair pressurisation and lobby relief	
18	ductwork and fans (54, 70 + ducts/fans) must all be fire isolated from each other - this could be achieved by FRL rated insulation wrapping.	Open
19	In 4NW, due to the length of the corridor, we recommend two hydraulic cupboards. Try to ensure there is a space that vertically aligns to fit this cupboard.	Open
23	It needs to be confirmed between the 4 cores of Building 4S, where there is access between them. It needs to be known if pipework can be laid between the cores to utilise centralised condensers and Hot water systems.	Open
	Coordination will be required to ensure the top two levels of Building 4S are connected, as they currently lack a lobby to fit the required cupboards. The connections may come from beneath for hydraulics and power supply, but approval will be required from Opticomm to locate the distribution equipment on a different floor to the consumer. Riser space will still be required for	
24	electrical services to the roof, for solar panel connection. For each building, we recommend a roof access ladder for plant access. Without a common	Open
25	lobby for the top 2 levels of Building 4S, a strategy will be required to ensure roof access. This enclosed area will require analysis as part of the alternative (CFD/jet fans) solution for the	Open
29	car park Car park exhaust fan room may be reduced in length as per drawing. Investigate opportunity to	Open
30	add a car spot.	Open
31	Car park supply fan room may be reduced in length as per drawing.	Open
32	3N pool plant size and allowable location TBD by pool consultant. Opportunity to fit within plant room on level below pool, or otherwise enclose in pool area.	Open
33	3N tenancy is likely to require 3-4 condensers at the size shown. These will be top discharge. Due to the required capacity, side discharge condensers are unlikely to be suitable, because of the high quantity that would required.	Open
34	Additional riser space required to accommodate higher kitchen exhaust flow rate at 5,000L/s, as requested. Alternative arrangement proposed. If garbage exhaust (43) can be discharged at low level towards Laing Street, this will save additional riser space.	Open
35	Clash between the continuous riser space in 3S and the fire stairs on ground floor It is proposed that the car park exhaust discharges via a louvre on the south side of the	Open
36	semi-circular shaft space. The discharge louvre must be at least 6m. from an operable window. Confirm that the noted windows are not operable.	Open
37	Check that the required louvre size for the basement stair pressurisation system can be accommodated. The fan will be installed at high level in the fire egress corridor. Refer to design guide for information. Typical to all basement stair pressurisation systems.	Open
38	Substation type and location requires further coordination. Refer to advice provided in previous emails. Options are a ground level chamber substation, or a kiosk substation. The proposed location under the stairs did not comply with Ausgrid requirements for either a kiosk or chamber.	Open
39	Relocate main switch room to be closer to substation. Redesign surrounding areas to suit. Ensure the switch room has 2 exit paths, on opposing sides of the room	Open
40	Lift shaft is misaligned between basement and ground level	Open
41	An existing sewer mains runs through the site. This is a critical issue for the project. Refer to the Services Infrastructure Report for information.	Open
42	Recoordinate 4N West core to allow riser for 5,000L/s kitchen exhaust, as requested. Proposed layout shown on drawings, and will require relocation of garbage chute. Ensure clear space in front of switchboards is equal to the door swing + 600mm. Confirm that the hydraulics cupboard and fire extinguisher are within the maximum allowable distance to apartments. Refer to design	0
42	guide for information. Coordinate lifts and lobbies with proposed car park exhaust.	Open Open
	4S roof requires space for apartment condensers, lobby relief fans, stair pressurisation fans, pool plant, and solar panels (not shown). The stair pressurisation and lobby relief must be 6m away	- 6011



Spatial Matrix

This matrix below summarises the engineering spaces required to support this development. The numbers in the first column are the numbers shown on each plan indicating the location of each engineering item. The colours indicate which engineering discipline it is. Read the comments for specific instructions and refer to the Design Guide for a full explanation of each system.

	Engineering item	Dimensions or area (sqm)	Quantity	Comment	Location	Discipli
1	Car park comms cupboard	0.9m (l) x 0.5m (d) x 2.1m (h)	2	One cupboard per level, and per 60m radius i.e. max cable length out from each cupboard. Often located close to the building core and lifts.	GRND	Electrical
2	Car park electrical cupboard(s)	0.9m (l) × 0.5m (d) × 2.1m (h)	2	One cupboard per level, and per 60m radius i.e. max cable length out from each cupboard. Often located	GRND	Electrical
	Communications building distributor room	3m (l) × 3m (w) × 2.5m (h)	2	close to the building core and lifts. Where practical provide direct access for cabling from the street and near to the communications riser	GRND	Electrical
	<u> </u>	either 11.2m (l) x 4.5m (w) x				Licetricat
4	Main Switch Room	3m (h) or 5m (l) x 8m (w) x 3m (h) either 9.7m (l) x 4.5m (w) x	1	Allow for two means of egress via separate doors. Refer to the design guide for further details.	GRND	Electrical
5	Main Switch Room	3m (h) or 5m (l) x 8m (w) x 3m (h)	1	Allow for two means of egress via separate doors. Refer to the design guide for further details.	GRND	Electrical
6	Substation	5.6m (l) x 2.8m (w) x 3.2m (h) or 4.2m (l) x 4.6m (w) x 3.2m (h)	2	Refer to the substation section for the chamber substation requirements	GRND	Electrical
7	Fire booster assembly	$4m (w) \times 0.7m (d) \times 1.8m (h)$	2	Locate near to the front entry and allow for fire truck hardstand	GRND	Fire Protec
8	Fire Control Centre	$2.3m$ (l) $\times 0.35m$ (d) $\times 2.1m$ (h)	2	This must be located within the entrance or main lobby of the building. Agreed the location with your BCA consultant and Fire Safety Engineer.	GRND	Fire Prote
9	Fire Pump Room	7m (l) x 5m (w) x 2.4m (h)	2	Provide direct access from an external facade or fire stair	GRND	Fire Prote
10	Fire Tank Room	96	2	This area is based on a 2.5m high fire tank. It must be located on the same level (or above) as the fire pump room. Refer to the design guide for specific requirements.	GRND	Fire Prote
11	Fire truck hardstand	10m (l) × 6m (w)	2	A hard surface, within 8m of the fire booster assembly set, at the official address of the development.	GRND	Fire Prote
12	Mimic panel	$1.2m$ (l) $\times 0.35m$ (d) $\times 2.1m$ (h)	8	Required in the entrance lobby of each tower/building with the exception of the building that contains the fire control centre/fire control room	GRND	Fire Prote
13	Cold Water meter	3.3m (l) x 0.5m (d) x 1m (h)	2	The space is currently allocated within the cold water pump room. No additional space required.	GRND	Hydraulic
14	Cold Water Plant	$4m (l) \times 3.5m (d) \times 2.4m (h)$	1	To be located close to the site boundary.	GRND	Hydraulio
15	Cold Water Plant	5.5m (l) x 3m (d) x 2.4m (h)	1	To be located close to the site boundary.	GRND	Hydraulio
16 17	Gas meter room Grease Arrestor	3.6m (l) x 1.5m (d) x 2.1m (h) 5.6m (l) x 3.8m (w) 2.8m (h)	2	Ensure the location has adequate ventilation. Refer to design guide for detailed provisions	GRND GRND	Hydraulic Hydraulic
18	Rainwater tank	5m (l) x 5m (w) x 2.2m (h)	3	This allowance is an estimate only and is subject to sustainability targets. Confirm this requirement with a	GRND	Hydraulio
				sustainability/BASIX Consultant. TBD pending detailed invert level study to determine exact requirements (if any)	GRND	·
19 20	Sewer pump station Storm water pump station	1.8m (l) x 1.8m (w) x 2m (h) 1.8m (l) x 1.8m (w) x 2m (h)	2 2	TBD pending detailed invert level study to determine exact requirements (if any) TBD pending detailed invert level study by Civil Engineer to determine exact requirements (if any)	GRND	Hydrauli Hydrauli
21	Basement Stair Pressurisation	1.8	9	The fan serves the stairwell directly and no additional shaft required	GRND	Mechanic
23	Carpark Ventilation Fan Room(s)	As drawn	4	Allow for a supply and exhaust fan room. For further requirements refer to the design guide.	GRND	Mechani
24	On floor comms cupboard(s)	0.9m (l) x 0.5m (d) x 2.1m (h)	5	To be vertically aligned up through the building located in common areas such as corridors	ONFL	Electrica
25 26	On floor comms cupboard(s) On floor comms cupboard(s)	1m (l) x 0.5m (d) x 2.1m (h) 1.2m (l) x 0.5m (d) x 2.1m (h)	<u>5</u>	To be vertically aligned up through the building located in common areas such as corridors To be vertically aligned up through the building located in common areas such as corridors	ONFL ONFL	Electrica Electrica
27	On floor electrical cupboard	1.2m (t) x 0.5m (d) x 2.1m (h) 1m (l) x 0.55m (d) x 2.1m (h)	<u>5</u>	To be vertically aligned up through the building located in common areas such as corridors To be vertically aligned up through the building located in common areas such as corridors	ONFL	Electrica
28	On floor electrical cupboard	1.2m (l) x 0.55m (d) x 2.1m (h)	5	To be vertically aligned up through the building located in common areas such as corridors	ONFL	Electrica
29	On floor electrical cupboard	$2m (l) \times 0.55m (d) \times 2.1m (h)$	5	To be vertically aligned up through the building located in common areas such as corridors	ONFL	Electrica
30	Fire Extinguishers	0.4m (w) x 0.4m (d)	10	Located within 10m of each single occupancy unit. Mounted between 100mm and 1200mm above floor level	ONFL	Fire Prot
31	Hydrant and sprinkler zone valve assembly	0.58m (w) x 0.34m (d)	11	Note the required BCA clearances within the typical apartment section. Generally a 1,300mm stair landing will provide sufficient clearances.	ONFL	Fire Prot
32	Hydraulic Cupboards	$0.8m (l) \times 0.5m (d) \times 2.2m (h)$	10	Required on each level centrally located and vertically aligned up through the building within the common corridor with clear access for maintenance.	ONFL	Hydrauli
33	Main Hydraulic Riser	1m (l) x 0.5m (w)	8	To be located off a common corridor, vertically aligned up through the building.	ONFL	Hydrauli
34	Lifts	2060mm (w) x 2350mm (d)	13	This figure is the clear internal dimension per lift which excludes the structure. Refer to the lift section for lift numbers and further details.	ONFL	Lifts
35	Carpark Exhaust Air Shaft	2.5	1	Stage 4 car park exhaust shaft sized based on air running directly within a builders works shaft. Extend the existing shaft to achieve the area. Ensure the exhaust air shaft aligns vertically up through the building. Ideally, locate the shaft close to the carpark supply air fan room, to which it connects.	ONFL	Mechanio
36	Carpark Exhaust Air Shaft	2.9	1	Ensure the exhaust air shaft aligns vertically up through the building. Ideally, locate the shaft close to the carpark supply air fan room, to which it connects.	ONFL	Mechanio
37	Carpark Supply Air Shaft	2.7	1	Ensure the supply air shaft aligns vertically up through the building. Ideally, locate the shaft close to the carpark exhaust fan room, to which it connects.	ONFL	Mechanic
38	Carpark Supply Air Shaft	2.6	1	Ensure the supply air shaft aligns vertically up through the building. Ideally, locate the shaft close to the carpark exhaust fan room, to which it connects.	ONFL	Mechanio
39	Corridor Ventilation	0.01	1	Refer to the Design Guide to view other available options for ventilating your corridors.	ONFL	Mechanio
40	Corridor Ventilation			If this building is determined to be less than 25m effective height, you will need to ensure sufficient corridor ventilation. Note the operable window openings will need to equate to 5% of the area served to be compliant. Check window opening area.	ONFL	Mechani
41	Corridor Ventilation	0.06	1	Refer to the Design Guide to view other available options for ventilating your corridors.	ONFL	Mechani
42	Fire Pump Room Ventilation	0.11	4	Note that general supply and exhaust is required. Refer to the fire pump section for additional requirements.	ONFL	Mechani
				Free space around chutis in garbage chute shafts to be used as duct riser. Refer to the garbage room		
43	Garbage Room Ventilation	0.16	2	ventilation section for requirements to assess if exhausting to a local facade is possible. If not, the noted shaft size will be required. We recommend including a hot water heater below the sink in each garbage room. TBD after 4N garbage chutes are recordinated.		Mechani
44	Grease Trap Rm Ventilation	0.09	2	Refer to the design guide for requirements to assess if the supply and exhaust air can run from a local facade. If not, the supply or exhaust air must run-up to the roof, noting the required shaft size. Tip: separate air intakes and air discharge locations by 6m. To be determined after location confirmed. Spatial coordination required will be minimal.	ONFL	Mechani
	Kitchen Exhaust shafts	0.4	2	Locate the vertically aligned fire-rated shafts close to the commercial kitchen exhaust hoods they serve.	ONFL	Mechani
45		<u> </u>	_	Locate the vertically aligned fire-rated shafts close to the commercial kitchen exhaust hoods they serve.	ONFL	Mechani
46	Kitchen Exhaust shafts	0.6	7	Locate the vertically aligned fire roted shafts close to the appropriate likely and shart the day the		
46 47	Kitchen Exhaust shafts Kitchen Exhaust shafts	0.8	2	Locate the vertically aligned fire-rated shafts close to the commercial kitchen exhaust hoods they serve. Connected to car park ventilation system	ONFL	
46	Kitchen Exhaust shafts		<u> </u>	Locate the vertically aligned fire-rated shafts close to the commercial kitchen exhaust hoods they serve. Connected to car park ventilation system The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned.		Mechani
46 47 49	Kitchen Exhaust shafts Kitchen Exhaust shafts Loading Dock Ventilation	0.8 n/a	2	Connected to car park ventilation system The lobby relief grille must connect directly to the communal corridor and have a clear path between it and	ONFL ONFL	Mechanio Mechanio
46 47 49 50	Kitchen Exhaust shafts Kitchen Exhaust shafts Loading Dock Ventilation Lobby Relief	0.8 n/a 1.26	2 1 1	Connected to car park ventilation system The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and	ONFL ONFL	Mechanio Mechanio Mechanio
46 47 49 50 51	Kitchen Exhaust shafts Kitchen Exhaust shafts Loading Dock Ventilation Lobby Relief Lobby Relief	0.8 n/a 1.26 1.29	2 1 1 2	Connected to car park ventilation system The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and	ONFL ONFL ONFL	Mechanic Mechanic Mechanic Mechanic
46 47 49 50 51 52	Kitchen Exhaust shafts Kitchen Exhaust shafts Loading Dock Ventilation Lobby Relief Lobby Relief Lobby Relief	0.8 n/a 1.26 1.29	2 1 1 2 1	Connected to car park ventilation system The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned.	ONFL ONFL ONFL ONFL	Mechanic Mechanic Mechanic Mechanic Mechanic Mechanic
46 47 49 50 51 52 53	Kitchen Exhaust shafts Kitchen Exhaust shafts Loading Dock Ventilation Lobby Relief Lobby Relief Lobby Relief Lobby Relief	0.8 n/a 1.26 1.29 1.31	2 1 1 2 1 2	Connected to car park ventilation system The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. Two of these noted shafts are required if the room is ventilated from the roof. Refer to the main switchroom ventilation section for requirements if it is preferred and possible to ventilated this space to/ from a local facade. To be determined after location confirmed. Spatial coordination required will be minimal.	ONFL ONFL ONFL ONFL ONFL	Mechanic Mechanic Mechanic Mechanic Mechanic
46 47 49 50 51 52 53 54	Kitchen Exhaust shafts Kitchen Exhaust shafts Loading Dock Ventilation Lobby Relief Lobby Relief Lobby Relief Lobby Relief Lobby Relief	0.8 n/a 1.26 1.29 1.31 1.34 2.44	1 2 1 2 1 2	Connected to car park ventilation system The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. Two of these noted shafts are required if the room is ventilated from the roof. Refer to the main switchroom ventilation section for requirements if it is preferred and possible to ventilated this space to/ from a local	ONFL ONFL ONFL ONFL ONFL ONFL	Mechanic Mechanic Mechanic Mechanic Mechanic Mechanic
46 47 49 50 51 52 53 54	Kitchen Exhaust shafts Kitchen Exhaust shafts Loading Dock Ventilation Lobby Relief Lobby Relief Lobby Relief Lobby Relief Main Switch Room Ventilation	0.8 n/a 1.26 1.29 1.31 1.34 2.44 0.16	1 2 1 2 1 2	Connected to car park ventilation system The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. Two of these noted shafts are required if the room is ventilated from the roof. Refer to the main switchroom ventilation section for requirements if it is preferred and possible to ventilated this space to/ from a local facade. To be determined after location confirmed. Spatial coordination required will be minimal. To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building.	ONFL ONFL ONFL ONFL ONFL ONFL ONFL ONFL	Mechani Mechani Mechani Mechani Mechani Mechani
46 47 49 50 51 52 53 54 55 56	Kitchen Exhaust shafts Kitchen Exhaust shafts Loading Dock Ventilation Lobby Relief Lobby Relief Lobby Relief Lobby Relief Main Switch Room Ventilation Mechanical pipework riser	0.8 n/a 1.26 1.29 1.31 1.34 2.44 0.16 0.12	1 2 1 2 1 2 1 4	Connected to car park ventilation system The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. Two of these noted shafts are required if the room is ventilated from the roof. Refer to the main switchroom ventilation section for requirements if it is preferred and possible to ventilated this space to/ from a local facade. To be determined after location confirmed. Spatial coordination required will be minimal. To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building. To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building.	ONFL ONFL ONFL ONFL ONFL ONFL ONFL ONFL	Mechanic Mechanic Mechanic Mechanic Mechanic Mechanic Mechanic Mechanic
46 47 49 50 51 52 53 54 55 56 57	Kitchen Exhaust shafts Kitchen Exhaust shafts Loading Dock Ventilation Lobby Relief Lobby Relief Lobby Relief Lobby Relief Main Switch Room Ventilation Mechanical pipework riser Mechanical pipework riser	0.8 n/a 1.26 1.29 1.31 1.34 2.44 0.16 0.12 0.3	1 2 1 2 1 2 1 4 1	Connected to car park ventilation system The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. Two of these noted shafts are required if the room is ventilated from the roof. Refer to the main switchroom ventilation section for requirements if it is preferred and possible to ventilated this space to/ from a local facade. To be determined after location confirmed. Spatial coordination required will be minimal. To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building. To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building.	ONFL ONFL ONFL ONFL ONFL ONFL ONFL ONFL	Mechanic Mechanic Mechanic Mechanic

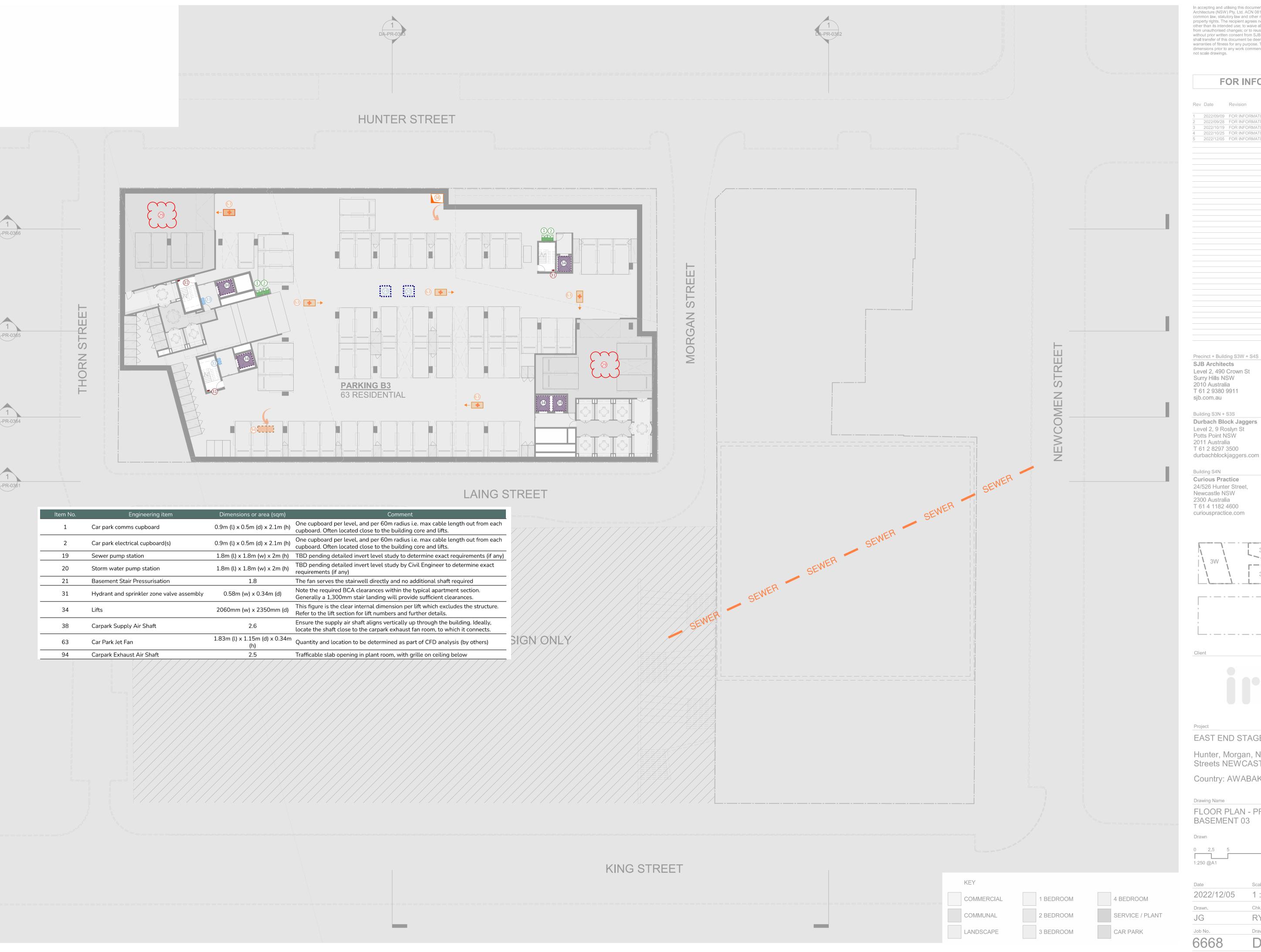


Spatial Matrix

This matrix below summarises the engineering spaces required to support this development. The numbers in the first column are the numbers shown on each plan indicating the location of each engineering item. The colours indicate which engineering discipline it is. Read the comments for specific instructions and refer to the Design Guide for a full explanation of each system.

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This issuance of a company to the control provent to the control provent to an extend provent	61	Mechanical pipework riser	0.81	1		ONFL	Mechanical
Committee Procession Committee Com	62	Mechanical pipework riser		2	To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building. The riser for the lowest 2 levels of apartments of each core can be reduced		Mechanical
Appendix pharmagnetis and section (1996) 1	63	Car Park Jet Fan			Quantity and location to be determined as part of CFD analysis (by others)	GRND	Mechanical
Service of third pitch before in the Misser of the Misse	64	Mechanical pipework riser (Mixed-Use)	0.43m (l) x 0.31m (w)	1		ONFL	Mechanical
Section Production Produc	65	Mechanical pipework riser (Mixed-Use)	0.43m (l) × 0.619m (w)	1		ONFL	Mechanical
Signed generally the buildings. 1 Stores General Verticals and the production of the second pro	66	Mechanical pipework riser (Mixed-Use)	0.43m (l) x 0.74m (w)	1		ONFL	Mechanical
Peaul Contact Florent Mentalization Contact Peaul Contact Florent Production of Contact Production of Co	67	Mechanical pipework riser (Mixed-Use)	0.43m (l) x 0.83m (w)	1		ONFL	Mechanical
Search Processing Process	68	Retail Garbage Room Ventilation	0.13	1	possible. If not, exhaust to the roof noting the required shaft size. A single shaft can serve multiple garbage	ONFL	Mechanical
Francisco moleculars. 1.1	69	Roof Access Hatch	1m (l) × 1m (w)		·	ROOF	Hydraulic
Solar PV 140 150 15 Service and service the service of the service	70	Stair Pressurisation	1.1	8		ONFL	Mechanical
Social PV	71	Storage Area Ventilation	0.19	2		ONFL	Mechanical
Act Wider Plant	72	Solar PV	140	1		ROOF	Electrical
The New Water Plant 1.10m (r) x 4.5m (w) 1 1.0m (r) x 4.5m (w) 2.0m (w) x 2.0m (w) 1 1.0m (r) x 4.5m (w) x 2.2m (w) 2.0m (w) x 2.0m (w) 1 1.0m (r) x 4.5m (w) x 2.2m (w) 2.0m (w) x 1.2m (w) 1 1.0m (w) x 1.2m (w) x 1.2m (w) 1 1.0m (w) x 1.2m (w) x 1.2m (w) 1 1.0m (w) x 1.2m (w) x 1.2m (w) 1 1.0m (w) x 1.2m (73	Solar PV	210	1		ROOF	Electrical
Peol Plant	74	Hot Water Plant	11.0m (l) x 4.5m (w)	1	· · · · · · · · · · · · · · · · · · ·	GRND	Hydraulic
Pool Plant 4.2 m (x - 2.m v) = 1 Location below pool or decking, Heat Pumps must be open to atmosphere above NOUP Prydrausch TBD by pool for calcular f. This must be to pasted close to the pool It may be able to be located in accessible ROOF Mechanical ROOF Mechanic	75	Hot Water Plant	11.0m (l) x 4.5m (w)	1		GRND	Hydraulic
AC Condenser area As shown 1 Locate close to refrigerant risers noting safe across and plant replacement strategy required Double stacked. ROOF Mechanical weekl away from minimum from any air intakes. AC Lobby relief roof fan 2 - 2m (l) × 1 2m (w) × 1 2m (h) 2 - 2m (l) × 1 2m (w) × 1 2m (h) 3 Stair pressurisation roof fans 2 - 2m (l) × 0.9m (w) × 1.2m (h) 4 Retail AC Condensers 0 - 95m (l) × 0.8m (d) × 1.7m (h) 5 Retail AC Condensers 1 - 9m (l) × 0.8m (d) × 1.7m (h) 1 Locate obside for in a well ventilated space like a carpark) close to the retail tenancy it serves. Note fan coil 8 Retail AC Condensers 1 - 9m (l) × 0.8m (d) × 1.7m (h) 1 Locate outside (or in a well ventilated space like a carpark) close to the retail tenancy it serves. Note fan coil 8 Retail AC Condensers 2 - 9m (l) × 0.8m (d) × 1.7m (h) 1 Locate outside (or in a well ventilated space like a carpark) close to the retail tenancy it serves. Note fan coil 8 Electrical and Communications Riser 2 - 9m (l) × 0.8m (d) × 1.7m (h) 3 Locate outside (or in a well ventilated space like a carpark) close to the retail tenancy it serves. Note fan coil 8 Condensers 2 - 9m (l) × 0.8m (d) × 1.7m (h) 3 Locate outside (or in a well ventilated space like a carpark) close to the retail tenancy it serves. Note fan coil 8 Condensers 2 - 9m (l) × 0.8m (d) × 1.7m (h) 3 Locate outside (or in a well ventilated space like a carpark) close to the retail tenancy it serves. Note fan coil 8 Condensers 2 - 9m (l) × 0.8m (d) × 1.7m (h) 3 Locate outside (or in a well ventilated space like a carpark) close to the retail tenancy it serves. Note fan coil 8 Condensers 2 - 9m (l) × 0.8m (d) × 1.7m (h) 3 Locate outside (or in a well ventilated space like a carpark) close to the retail tenancy it serves. Note fan coil 8 Condensers 2 - 9m (l) × 0.8m (d) × 1.7m (h) 3 Locate outside (or in a well ventilated space like a carpark) close to the retail tenancy it serves. Note fan coil 8 Condensers 2 - 9m (l) × 0.8m (d) × 1.7m (h) 3 Locate outside (or in a w	78	Pool Plant	4.3m (l) x 3.3m (w)	1	, ,	ROOF	Hydraulic
Electrical and Communications Riser Dom (th) x 15m (th) 1 Locate the reoftep ochoust fans in a safe location for access and maintenance, near the exhaust shafts and well away (firm minimal) from any air histoles. Electrical AC Condensers 2.2m (t) x 0.9m (w) x 1.2m (th) 3 Locate the fan on the roof, ideally above or directly adjacent the lobby relief shaft below to which they physically connect.	79	Pool Plant	4.2m (l) x 2.2m (w)	2	, ,	ROOF	Hydraulic
Mechanical Electrical and Communications Riser 2.9m (i) x 0.9m (w) x 1.7m (h) 1 Locate United no or the cod, ideally above or directly adjacent the lobby relief shaft below to which they physically connect.	80	AC Condenser area	As shown	1	Locate close to refrigerant risers noting safe access and plant replacement strategy required. Double stacked.	ROOF	Mechanical
Steir pressurisation roof fans 2.2.m (k) x 0.9m (w) x 1.2m (h) 8	81	Kitchen Exhaust roof fans	2m (l) × 1m (w) × 1.2m (h)	11		ROOF	Mechanical
Retail AC Condensers 0.95m (l) x 0.8m (d) x 1.7m (h) 9 Locate outside (or in a well ventilated space like a carpark) close to the retail tenancy it serves. Note fan coil units units units Retail AC Condensers 1.9m (l) x 0.8m (d) x 1.7m (h) 1 Locate outside (or in a well ventilated space like a carpark) close to the retail tenancy it serves. Note fan coil units ROOF Mechanical units Solution for 4N North East Core, serving 1 apartment per level. Internal division between comms and electrical ONFL Electrical and Communications Riser 0.6m (l) x 0.5m (d) 1 Solution for 4N North East Core, serving 1 apartment per level. Internal division between comms and electrical coordination ONFL Electrical coordination on the serving 1 apartment per level. Internal division between comms and electrical units occordination on the serving 1 apartment per level. Internal division between comms and electrical units occordination on the serving 1 apartment per level. Internal division between comms and electrical units occordination on the serving 1 apartment per level. Internal division between comms and electrical units occordination on the serving 1 apartment per level. Internal division between comms and electrical electrical units occordination on the serving 1 apartment per level. Internal division between comms and electrical electrical units occordination on the serving 1 apartment per level. Internal division between comms and electrical electrical units occordination on the serving 1 apartment per level. Internal division between comms and electrical units occordination on the serving 1 on the	82	Lobby relief roof fan	2.2m (l) x 1.2m (w) x 1.3m (h)	11	· · · · · · · · · · · · · · · · · · ·	ROOF	Mechanical
Retail AC Condensers 19m (l) x 0.8m (d) x 1.7m (h) 1 Locate outside (or in a well ventilated space like a carpark) close to the retail tenancy it serves. Note fan coil units ROOF Mechanical units ROOF M	83	Stair pressurisation roof fans	2.2.m (l) x 0.9m (w) x 1.2m (h)	8		ROOF	Mechanical
Retail AC Condensers	84	Retail AC Condensers	0.95m (l) × 0.8m (d) × 1.7m (h)	9		ROOF	Mechanical
B9 Electrical and Communications Riser 0.6m (l) x 0.5m (d) 1 Solution for 4N North East Core, serving 1 apartment per level. Internal division between comms and electrical electrical electrical between comms and electrical electrical units of the external wall for selected tenancies. Tenancies to be determined in detailed design to suit usage and spatial coordination of the external wall for selected tenancies. Tenancies to be determined in detailed design to suit usage and spatial coordination of the external wall for selected tenancies. Tenancies to be determined in detailed design to suit usage and spatial coordination of the external wall for selected tenancies. Tenancies to be determined in detailed design to suit usage and spatial coordination of the external wall for selected tenancies. Tenancies to be determined in detailed design to suit usage and spatial coordination of the external wall for selected tenancies. Tenancies for be determined in detailed design to suit usage and spatial coordination. 91 General air conditioning (indoor units) N/A N/A Retail tenancies are assumed to have in-ceiling fan coil units to condition the spaces locally with outside air coming from the local facade 92 Mixed-use electrical distribution board, network	85	Retail AC Condensers	1.9m (l) × 0.8m (d) × 1.7m (h)	1		ROOF	Mechanical
90 Outdoor Air Louvre 400mm (h) N/A Louvre for general outdoor air and exhaust air ventilation to mixed-use areas, throughout the width of the external wall for selected tenancies. Tenancies to be determined in detailed design to suit usage and spatial coordination 91 General air conditioning (indoor units) N/A N/A Retail tenancies are assumed to have in-ceiling fan coil units to condition the spaces locally with outside air coming from the local facade 92 Mixed-use electrical distribution board, network termination device, hose reel 0.8m (w) x 0.5m (d), 0.9m (w) x 0.5m (d), 0.9m (w) x 0.5m (d), 1.1m (w) x 0.5m (d), 1.1m (w) x 0.5m (d) 1.2m (w) x 0.5m (d)	87	Retail AC Condensers	2.9m (l) × 0.8m (d) × 1.7m (h)	1		ROOF	Mechanical
90 Outdoor Air Louvre 400mm (h) N/A external wall for selected tenancies. Tenancies to be determined in detailed design to suit usage and spatial ONFL Mechanical coordination 91 General air conditioning (indoor units) N/A N/A Retail tenancies are assumed to have in-ceiling fan coil units to condition the spaces locally with outside air coming from the local facade 92 Mixed-use electrical distribution board, network termination device, hose reel 0.8m (w) x 0.5m (d), 0.9m (w) x 0.5m (d), 0.9m (w) x 0.5m (d), 1m (w) x 0.5m (d) 93 Rainwater pump room 3.0m (w) x 1.5m (d) 1 Locate close to rainwater tank GRND Hydraulic 94 Carpark Exhaust Air Shaft 2.5 1 Trafficable slab opening in plant room, with grille on ceiling below GRND Mechanical 95 Carpark Exhaust Air Shaft 1.6 1 Trafficable slab opening in plant room, with grille on ceiling below GRND Mechanical 96 Kitchen Exhaust shafts 1.2m (l) x 0.25m (d) 1 Serving lower level apartments in 3S. To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building. 98 Mechanical pipework riser 1.2m (l) x 0.45m (d), or 1.45m 1 Serving upper level apartments in 3S. To be located off a common corridor, ideally close to the mechanical ONEL Mechanical	89	Electrical and Communications Riser	0.6m (l) x 0.5m (d)	1	· · · · · · · · · · · · · · · · · · ·	ONFL	Electrical
92 Mixed-use electrical distribution board, network termination device, hose reel 0.8m (w) x 0.5m (d), 0.9m (w) x 0.5m (d) 1m (w) x 0.5m (90	Outdoor Air Louvre	400mm (h)	N/A	external wall for selected tenancies. Tenancies to be determined in detailed design to suit usage and spatial	ONFL	Mechanical
Mixed-use electrical distribution board, network termination device, hose reel 0.8m (w) x 0.5m (d), 0.9m (w) x 0.5m (d), 1m (w) x 0.5m (d) 1 Locate close to rainwater tank GRND Hydraulic Arapark Exhaust Air Shaft 2.5 1 Trafficable slab opening in plant room, with grille on ceilling below GRND Mechanical GRND Mechanical GRND Mechanical Mechanical Mechanical pipework riser 1.2m (l) x 0.25m (d) 1 Serving lower level apartments in 3S. To be located off a common corridor, ideally close to the mechanical ONFL Mechanical Mechanical Mechanical ONFL Mechanical	91	General air conditioning (indoor units)	N/A	N/A		GRND	Mechanical
Rainwater pump room 3.0m (w) x 1.5m (d) 1 Locate close to rainwater tank GRND Hydraulic 2.5 1 Trafficable slab opening in plant room, with grille on ceiling below GRND Mechanical 2.5 1 Trafficable slab opening in plant room, with grille on ceiling below GRND Mechanical 3.0m (w) x 1.5m (d) 1 Trafficable slab opening in plant room, with grille on ceiling below GRND Mechanical 3.0m (w) x 1.5m (d) 1 Trafficable slab opening in plant room, with grille on ceiling below GRND Mechanical 3.0m (w) x 1.5m (d) 1 Size changed to suit client request for 5,000L/s ONFL Mechanical 3.0m (w) x 1.5m (d) 1 Serving lower level apartments in 3.5m (b) coated off a common corridor, ideally close to the mechanical 3.0m (w) x 1.5m (d) on 1.45m (d) or	92		$0.9 \text{m} \text{ (w)} \times 0.5 \text{m} \text{ (d)},$	11		GRND	Electrical
95 Carpark Exhaust Air Shaft 1.6 1 Trafficable slab opening in plant room, with grille on ceiling below GRND Mechanical 96 Kitchen Exhaust shafts 1 Size changed to suit client request for 5,000L/s ONFL Mechanical 97 Mechanical pipework riser 1.2m (l) x 0.25m (d) 1 Serving lower level apartments in 3S. To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building. 98 Mechanical pipework riser 1.2m (l) x 0.45m (d), or 1.45m 1 Serving upper level apartments in 3S. To be located off a common corridor, ideally close to the mechanical ONFL Mechanical	93	Rainwater pump room	3.0m (w) x 1.5m (d)	1	Locate close to rainwater tank	GRND	Hydraulic
96 Kitchen Exhaust shafts 1 Size changed to suit client request for 5,000L/s 97 Mechanical pipework riser 1.2m (l) x 0.25m (d) 1 Serving lower level apartments in 3S. To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building. 98 Mechanical pipework riser 1.2m (l) x 0.45m (d), or 1.45m 1 Serving upper level apartments in 3S. To be located off a common corridor, ideally close to the mechanical ONEL Mechanical	94	Carpark Exhaust Air Shaft	2.5	1	Trafficable slab opening in plant room, with grille on ceiling below	GRND	Mechanical
97 Mechanical pipework riser 1.2m (l) x 0.25m (d) 1 Serving lower level apartments in 3S. To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building. 98 Mechanical pipework riser 1.2m (l) x 0.45m (d), or 1.45m 1 Serving upper level apartments in 3S. To be located off a common corridor, ideally close to the mechanical ONEL Mechanical Mechanical Pipework riser 1.2m (l) x 0.45m (d), or 1.45m 1 Serving upper level apartments in 3S. To be located off a common corridor, ideally close to the mechanical ONEL Mechanical	95	Carpark Exhaust Air Shaft	1.6	1	Trafficable slab opening in plant room, with grille on ceiling below	GRND	Mechanical
Mechanical pipework riser 1.2m (l) x 0.25m (d) plantroom. The riser should be vertically aligned up through the building. Mechanical pipework riser 1.2m (l) x 0.45m (d), or 1.45m Serving upper level apartments in 3S. To be located off a common corridor, ideally close to the mechanical ONFL Mechanical	96	Kitchen Exhaust shafts	1			ONFL	Mechanical
Machanical hindwork ricer	97	Mechanical pipework riser	1.2m (l) x 0.25m (d)	1		ONFL	Mechanical
	98	Mechanical pipework riser	, ,	1		ONFL	Mechanical





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Rev	Date	Revision	Ву	Chl
1	2022/09/09	FOR INFORMATION	JG	W
2	2022/09/28	FOR INFORMATION	JG	RY
3	2022/10/19	FOR INFORMATION	JG	RY
4	2022/10/25	FOR INFORMATION	JG	RY
5	2022/12/05	FOR INFORMATION	JG	RY

Precinct + Building S3W + S4S SJB Architects

Level 2, 490 Crown St

Building S3N + S3S **Durbach Block Jaggers** Level 2, 9 Roslyn St Potts Point NSW T 61 2 8297 3500

Curious Practice 24/526 Hunter Street, Newcastle NSW

CURIOUS PRACTICE

Jaggers



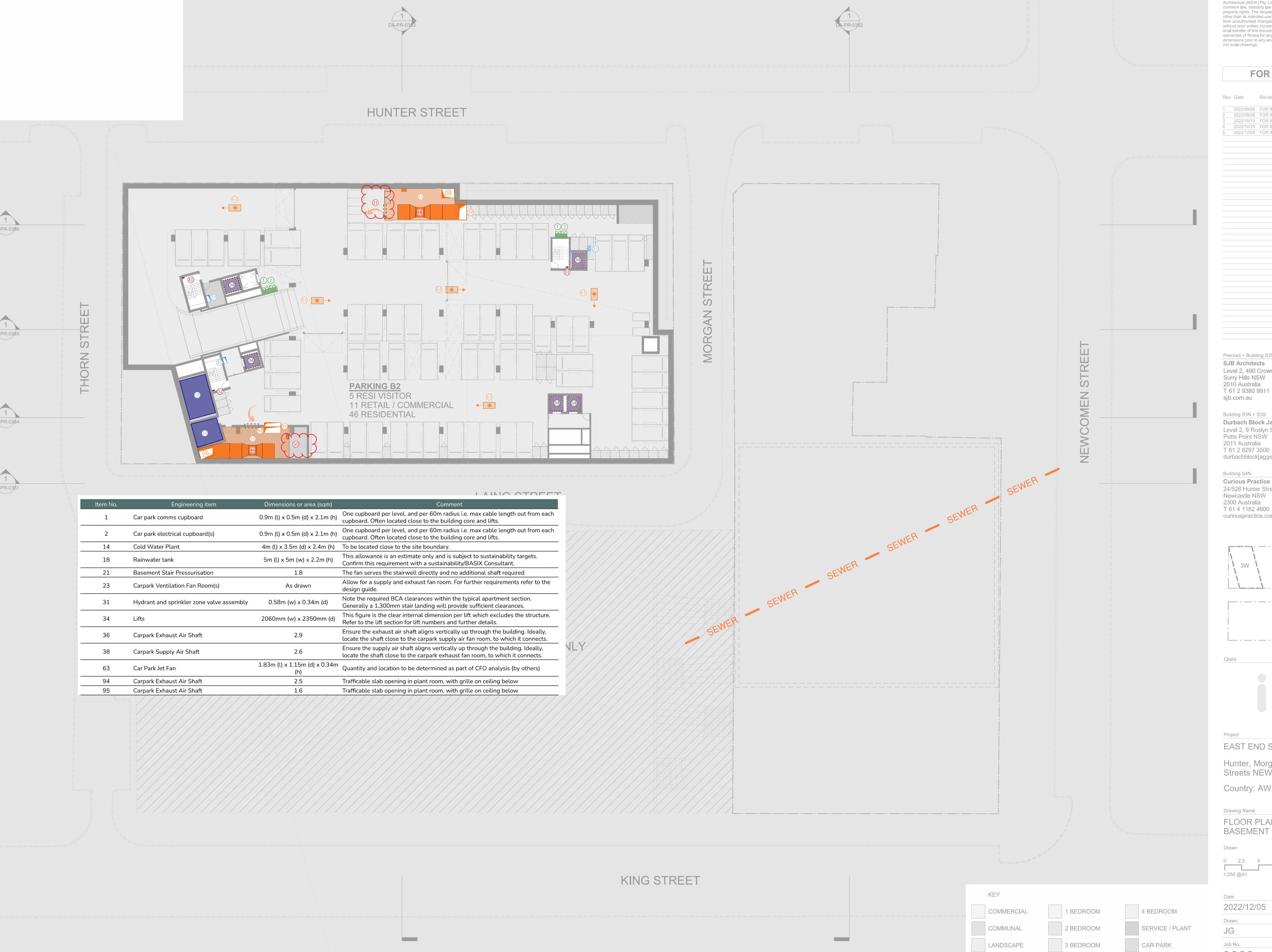
EAST END STAGE 3 & 4

Hunter, Morgan, Newcomen, King Streets NEWCASTLE NSW 2300

Country: AWABAKAL

FLOOR PLAN - PRECINCT -BASEMENT 03

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1	2022/09/09	FOR INFORMATION	JG	\/\
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3	2022/10/19	FOR INFORMATION	JG	R'
4	2022/10/25	FOR INFORMATION	JG	R'
5	2022/12/05	FOR INFORMATION	JG	R'

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EAST END STAGE 3 & 4

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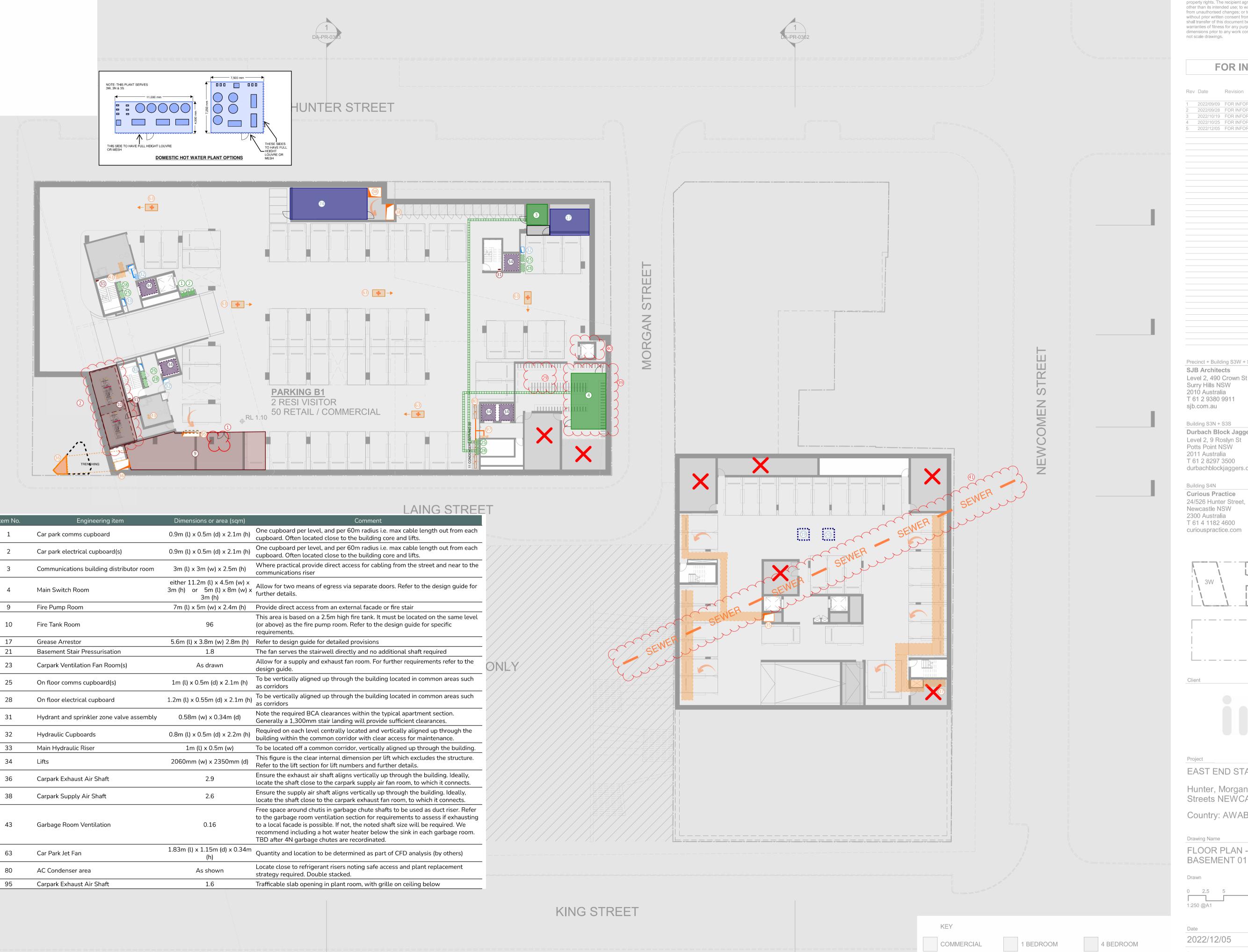
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Drawing Name

FLOOR PLAN - PRECINCT -BASEMENT 02

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Drawing No.



STREET

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3	2022/10/19	FOR INFORMATION	JG	RY
4	2022/10/25	FOR INFORMATION	JG	RY
5	2022/12/05	FOR INFORMATION	JG	RY

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Drawing Name FLOOR PLAN - PRECINCT -

COMMUNAL

LANDSCAPE

2 BEDROOM

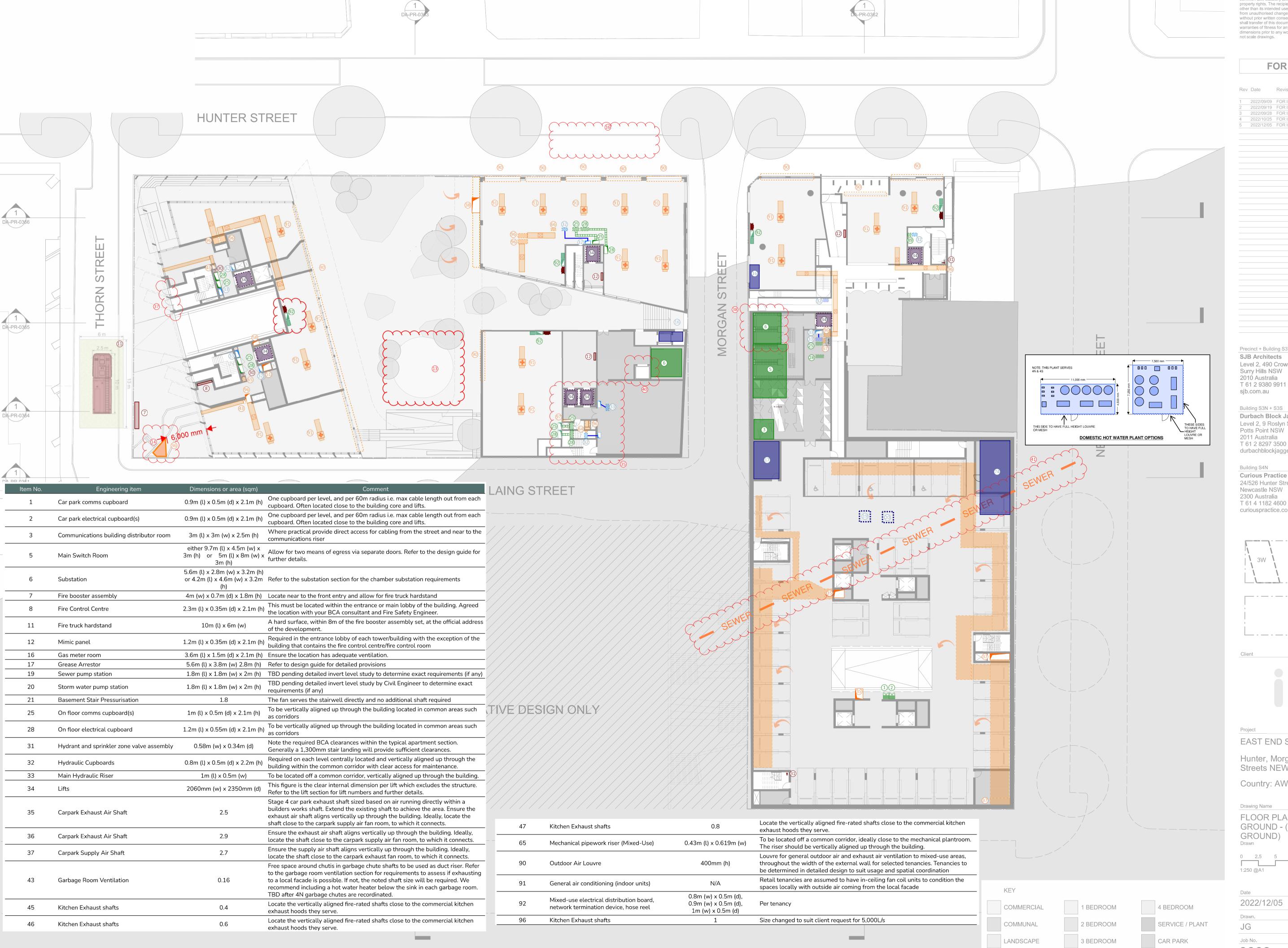
3 BEDROOM

SERVICE / PLANT

CAR PARK

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Date	Scale	Sheet Size
2022/12/05	1:250	@ A1
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JG	RY	5
Job No.	Drawing No.	
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4	2022/10/25	FOR INFORMATION	JG	RY
5	2022/12/05	FOR INFORMATION	JG	RY

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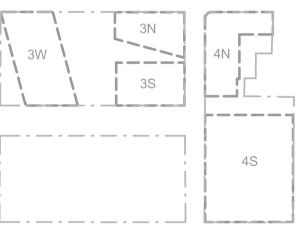


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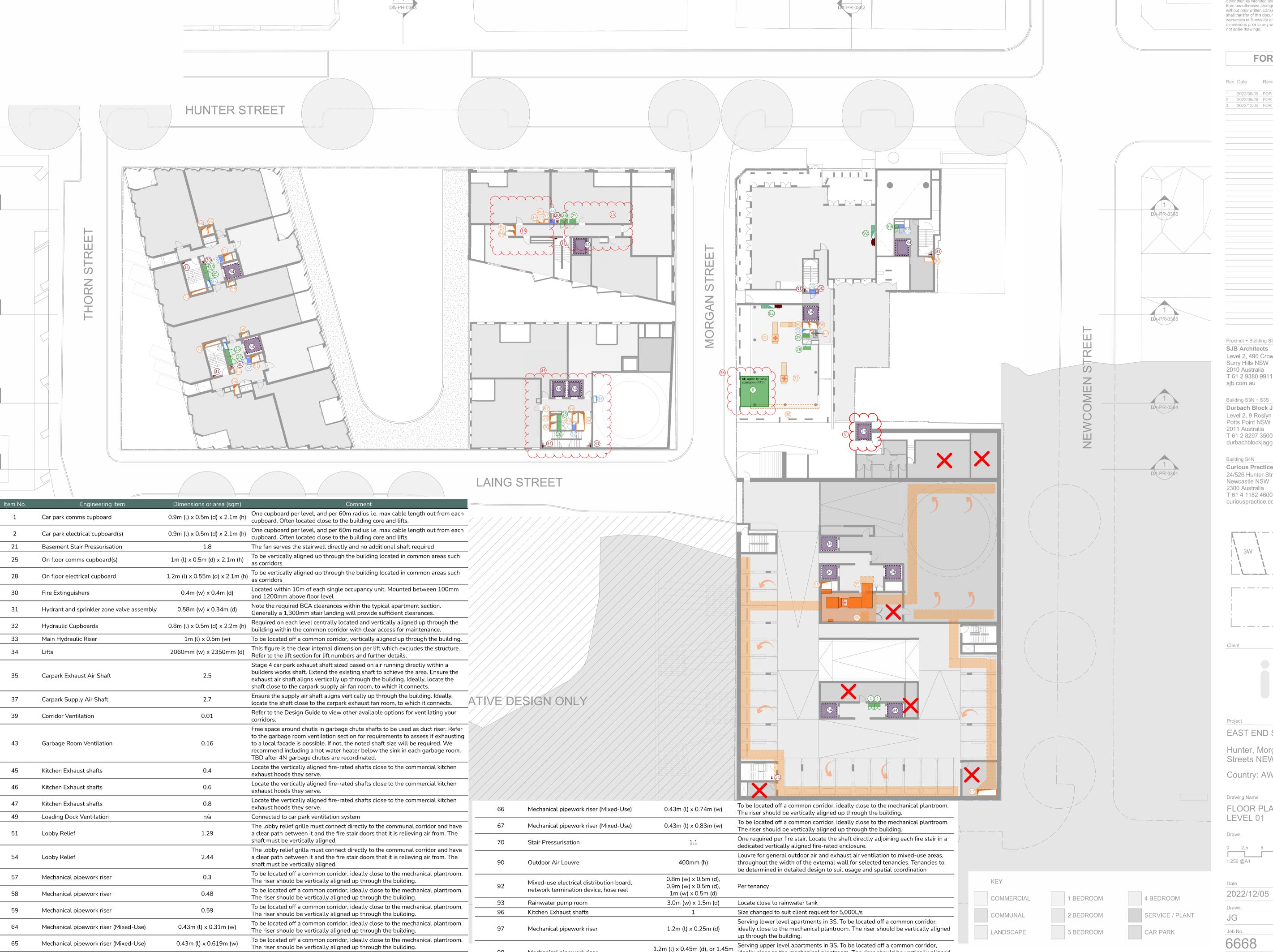
Hunter, Morgan, Newcomen, King Streets NEWCASTLE NSW 2300

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Drawing Name

FLOOR PLAN - PRECINCT **GROUND - (HUNTER ST** GROUND)

Date	Scale	Sheet Size
2022/12/05	1:250	@ A1
Drawn.	Chk.	Revision
JG	RY	5
Job No.	Drawing No.	



Mechanical pipework riser

(l) \times 0.35m (d)

ideally close to the mechanical plantroom. The riser should be vertically aligned

up through the building.

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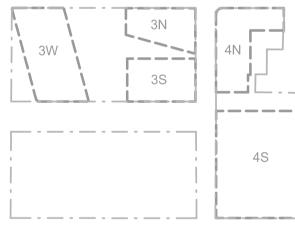


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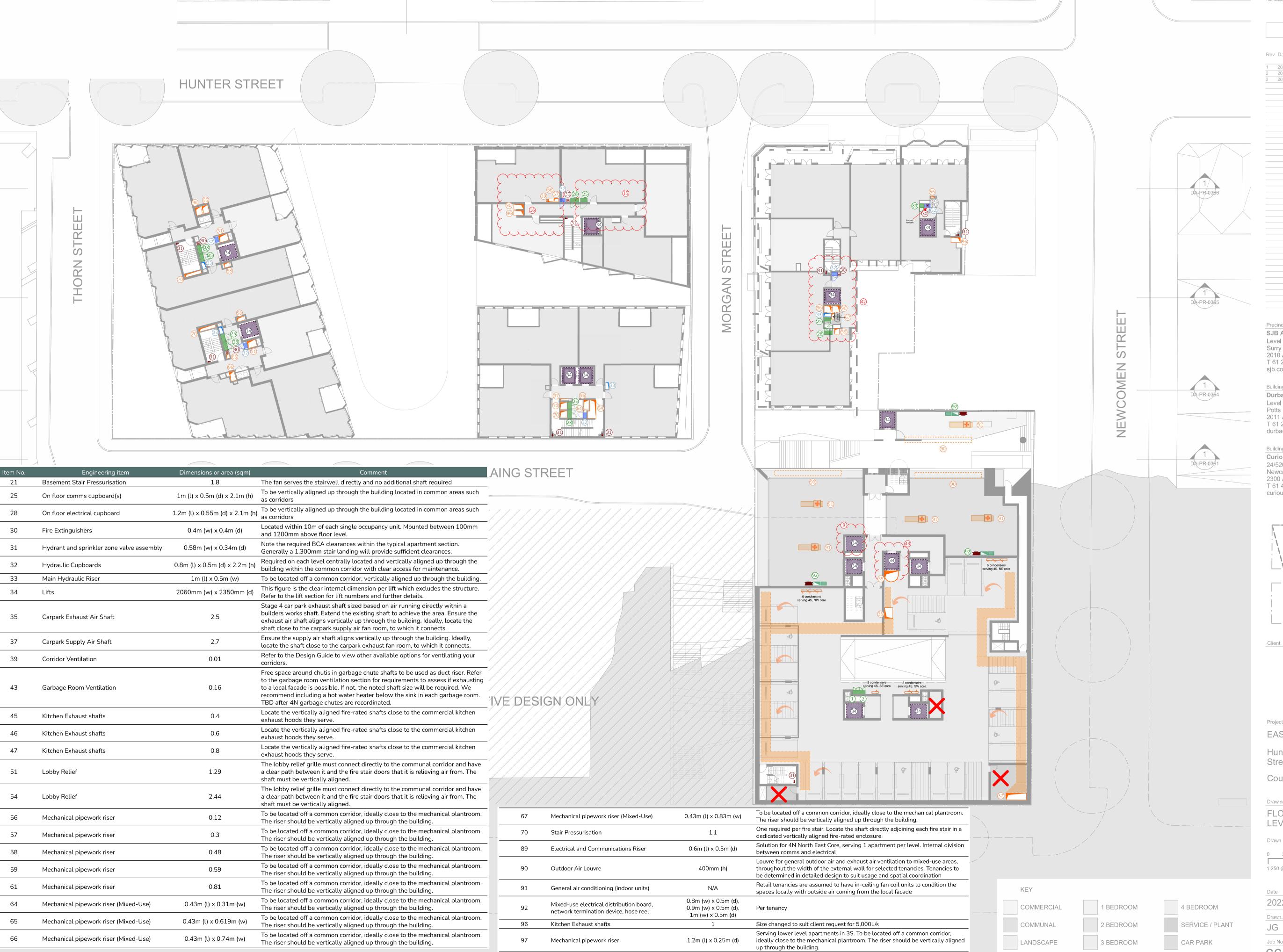
Country: AWABAKAL

Drawing Name

FLOOR PLAN - PRECINCT -LEVEL 01

Sheet Size @ A1 1:250 Chk. Revision RY

Drawing No.



Serving upper level apartments in 3S. To be located off a common corridor,

up through the building.

ideally close to the mechanical plantroom. The riser should be vertically aligned

1.2m (l) $\times 0.45m$ (d), or 1.45m

(l) \times 0.35m (d)

Mechanical pipework riser

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1	2022/09/09	FOR INFORMATION	JG	WG
2	2022/09/28	FOR INFORMATION	JG	RY
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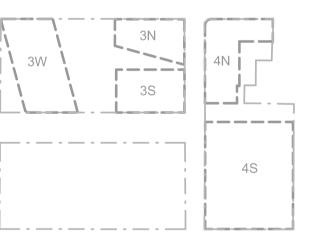


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EAST END STAGE 3 & 4

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Country: AWABAKAL

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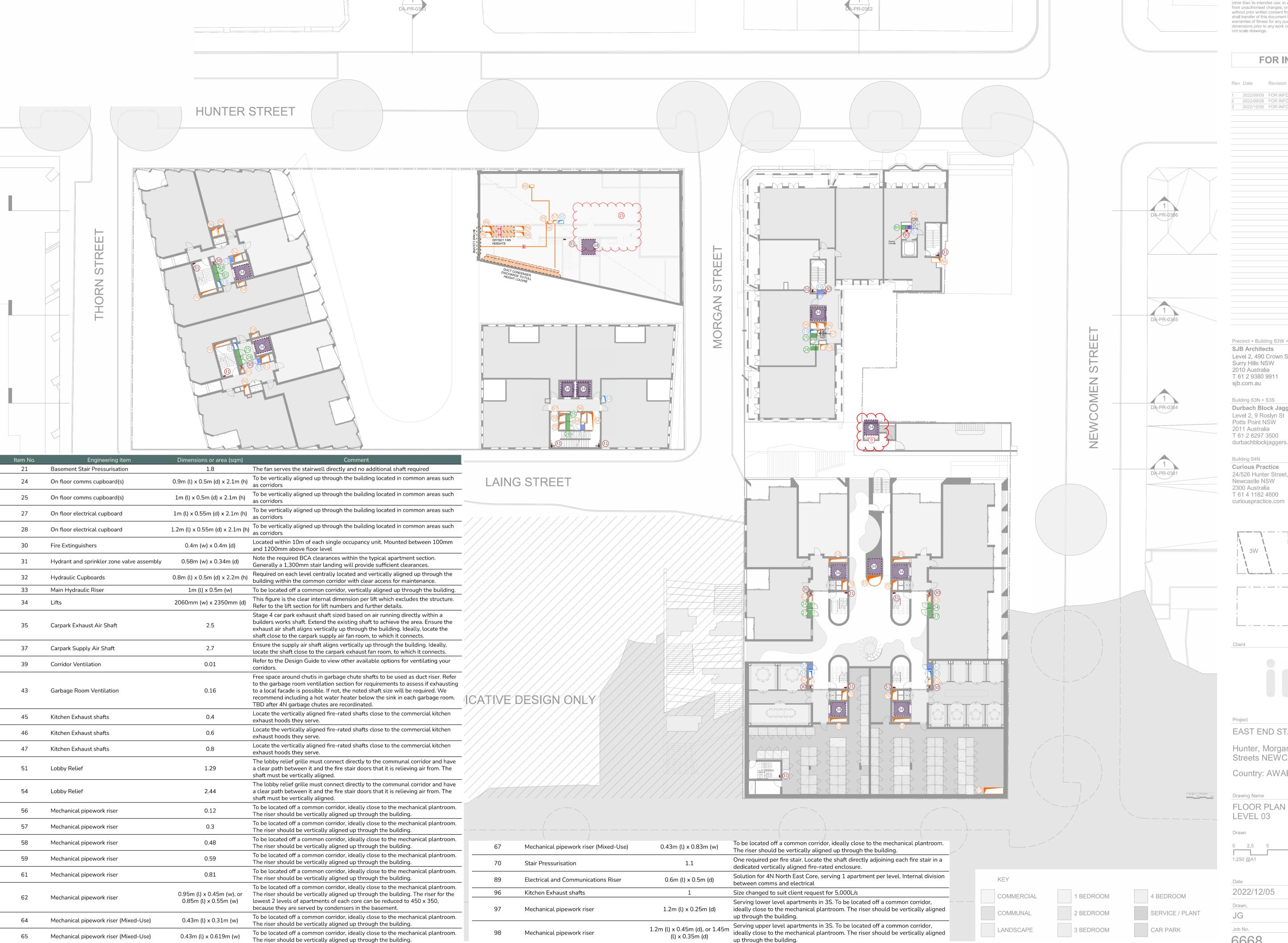
FLOOR PLAN - PRECINCT -LEVEL 02

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2022/12/05 1:250 Chk. RY Job No. Drawing No.

6668



To be located off a common corridor, ideally close to the mechanical plantroom.

The riser should be vertically aligned up through the building.

0.43m (l) x 0.74m (w)

Mechanical pipework riser (Mixed-Use)

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Rev	Date	Revision	Ву	Chk
1	2022/09/09	FOR INFORMATION	JG	WG
2	2022/09/28	FOR INFORMATION	JG	RY
3	2022/12/05	FOR INFORMATION	JG	RY

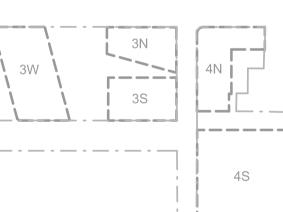
Precinct + Building S3W + S4S **SJB Architects** Level 2, 490 Crown St Surry Hills NSW 2010 Australia T 61 2 9380 9911



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EAST END STAGE 3 & 4

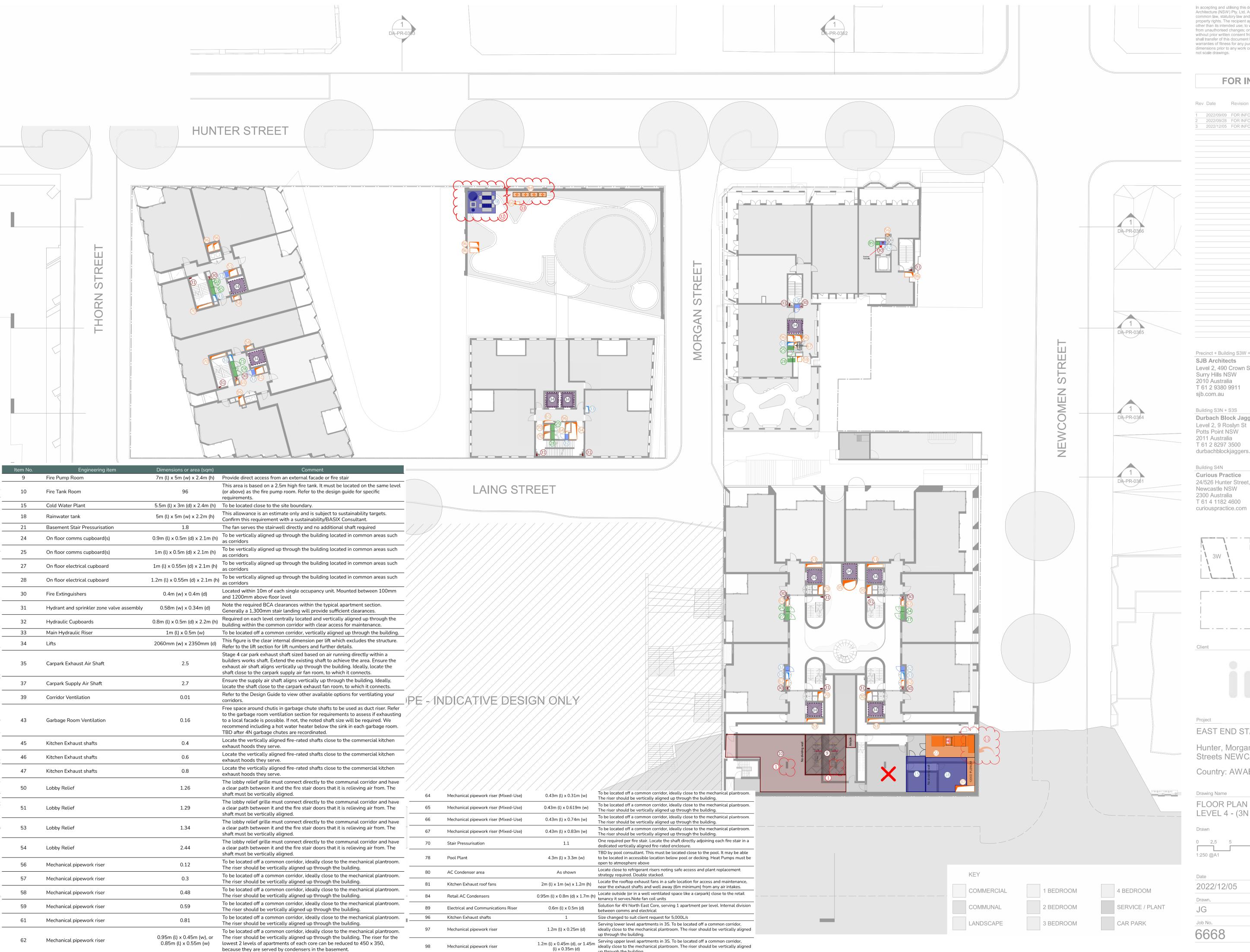
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Drawing Name

FLOOR PLAN - PRECINCT -LEVEL 03

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up through the building

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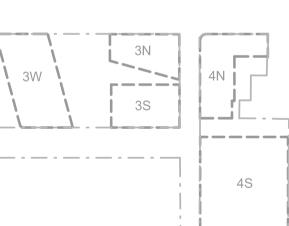
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1	2022/09/09	FOR INFORMATION	JG	VV
2	2022/09/28	FOR INFORMATION	JG	R'
3	2022/12/05	FOR INFORMATION	JG	R'

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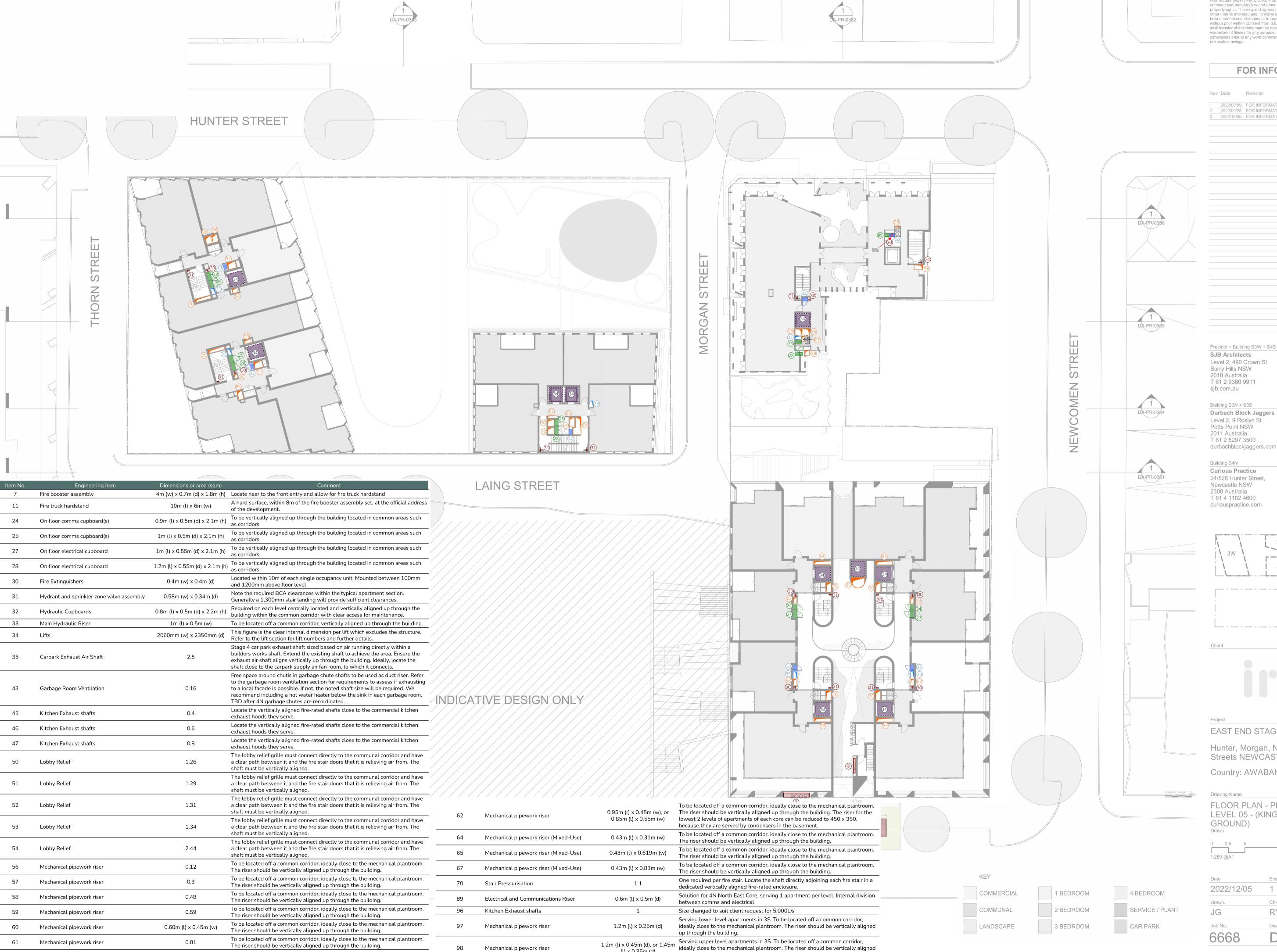
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FLOOR PLAN - PRECINCT -LEVEL 4 - (3N ROOF)

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(l) \times 0.35m (d)

up through the building.

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PRACTICE

4S

EAST END STAGE 3 & 4

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FLOOR PLAN - PRECINCT -LEVEL 05 - (KING ST

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HUNTER STREET

On floor comms cupboard(s)

On floor comms cupboard(s)

On floor electrical cupboard

On floor electrical cupboard

Hydrant and sprinkler zone valve assembly

0.8 m (l) $\times 0.5 \text{m}$ (d) $\times 2.2 \text{m}$ (h)

2.5

0.16

0.4

0.6

8.0

1.26

1.29

1.31

1.34

2.44

0.12

0.3

0.48

0.59

0.81

Fire Extinguishers

Hydraulic Cupboards

Main Hydraulic Riser

Carpark Exhaust Air Shaft

Garbage Room Ventilation

Kitchen Exhaust shafts

Kitchen Exhaust shafts

Kitchen Exhaust shafts

Lobby Relief

Lobby Relief

Lobby Relief

Lobby Relief

Lobby Relief

Mechanical pipework riser

Lifts

31

32

34

35



Dimensions or area (sqm)	Comment
0.9m (l) × 0.5m (d) × 2.1m (h)	To be vertically aligned up through the building located in common areas such as corridors
$1m (l) \times 0.5m (d) \times 2.1m (h)$	To be vertically aligned up through the building located in common areas such as corridors
1m (l) x 0.55m (d) x 2.1m (h)	To be vertically aligned up through the building located in common areas such as corridors
$2.2m$ (l) \times 0.55m (d) \times 2.1m (h)	To be vertically aligned up through the building located in common areas such as corridors
0.4m (w) x 0.4m (d)	Located within 10m of each single occupancy unit. Mounted between 100mm and 1200mm above floor level
0.58m (w) x 0.34m (d)	Note the required BCA clearances within the typical apartment section. Generally a 1,300mm stair landing will provide sufficient clearances.
0.8m (l) × 0.5m (d) × 2.2m (h)	Required on each level centrally located and vertically aligned up through the

 $1m (l) \times 0.5m (w)$ To be located off a common corridor, vertically aligned up through the building. This figure is the clear internal dimension per lift which excludes the structure. 2060mm (w) x 2350mm (d) Refer to the lift section for lift numbers and further details. Stage 4 car park exhaust shaft sized based on air running directly within a builders works shaft. Extend the existing shaft to achieve the area. Ensure the exhaust air shaft aligns vertically up through the building. Ideally, locate the shaft close to the carpark supply air fan room, to which it connects.

building within the common corridor with clear access for maintenance.

Free space around chutis in garbage chute shafts to be used as duct riser. Refer to the garbage room ventilation section for requirements to assess if exhausting to a local facade is possible. If not, the noted shaft size will be required. We recommend including a hot water heater below the sink in each garbage room. TBD after 4N garbage chutes are recordinated. Locate the vertically aligned fire-rated shafts close to the commercial kitchen

exhaust hoods they serve. Locate the vertically aligned fire-rated shafts close to the commercial kitchen exhaust hoods they serve. Locate the vertically aligned fire-rated shafts close to the commercial kitchen

exhaust hoods they serve. The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The

shaft must be vertically aligned.

The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned. The lobby relief grille must connect directly to the communal corridor and have

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To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building.

To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building. To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building.

To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building. To be located off a common corridor, ideally close to the mechanical plantroom. 0.60 m (l) $\times 0.45 \text{m}$ (w) The riser should be vertically aligned up through the building. To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building.

because they are served by condensers in the basement. To be located off a common corridor, ideally close to the mechanical plantroom. Mechanical pipework riser (Mixed-Use) 0.43 m (l) $\times 0.31 \text{m}$ (w) The riser should be vertically aligned up through the building. 0.43m (l) x 0.619m (w) Mechanical pipework riser (Mixed-Use) Mechanical pipework riser (Mixed-Use) 0.43 m (l) x 0.83 m (w) Stair Pressurisation 1.1 **Electrical and Communications Riser** $0.6m (l) \times 0.5m (d)$ Kitchen Exhaust shafts

0.95m (l) $\times 0.45m$ (w), or

0.85m (l) $\times 0.55m$ (w)

1.2m (l) $\times 0.45m$ (d), or 1.45m

(l) x 0.35m (d)

LAING STREET

ATIVE DESIGN ONLY

Mechanical pipework riser

Mechanical pipework riser

Mechanical pipework riser

To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building. To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building. One required per fire stair. Locate the shaft directly adjoining each fire stair in a dedicated vertically aligned fire-rated enclosure. Solution for 4N North East Core, serving 1 apartment per level. Internal division between comms and electrical Size changed to suit client request for 5,000L/s Serving lower level apartments in 3S. To be located off a common corridor, $1.2m (l) \times 0.25m (d)$ ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building.

Serving upper level apartments in 3S. To be located off a common corridor,

up through the building.

ideally close to the mechanical plantroom. The riser should be vertically aligned

To be located off a common corridor, ideally close to the mechanical plantroom.

The riser should be vertically aligned up through the building. The riser for the

lowest 2 levels of apartments of each core can be reduced to 450×350 ,

COMMERCIAL COMMUNAL LANDSCAPE

KEY

2 BEDROOM 3 BEDROOM

4 BEDROOM SERVICE / PLANT

CAR PARK

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EAST END STAGE 3 & 4

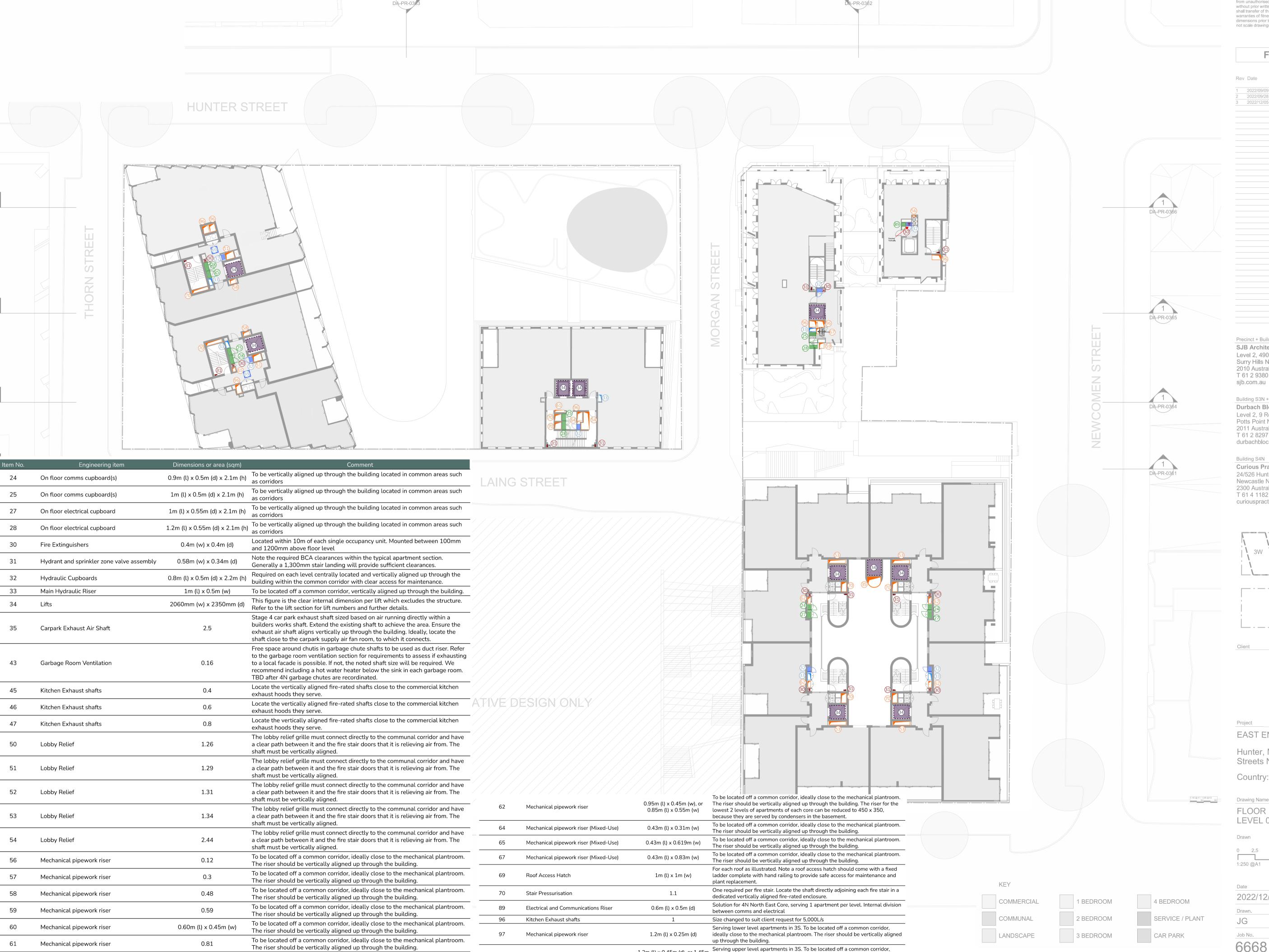
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Country: AWABAKAL

Drawing Name FLOOR PLAN - PRECINCT -LEVEL 06

1:250 @ A1 2022/12/05 Chk. Revision RY

JG Job No. Drawing No.



1.2m (l) x 0.45m (d), or 1.45m

(l) \times 0.35m (d)

ideally close to the mechanical plantroom. The riser should be vertically aligned

up through the building.

Mechanical pipework riser

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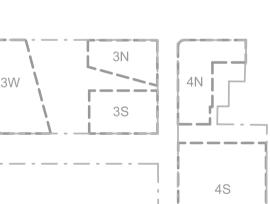
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Drawing Name

FLOOR PLAN - PRECINCT -LEVEL 07

Sheet Size

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HUNTER STREET



LAING STREET



30	Fire Extinguishers	0.4m (w) x 0.4m (d)	Located within 10m of each single occupancy unit. Mounted between 100mm and 1200mm above floor level
31	Hydrant and sprinkler zone valve assembly	0.58m (w) x 0.34m (d)	Note the required BCA clearances within the typical apartment section. Generally a 1,300mm stair landing will provide sufficient clearances.
32	Hydraulic Cupboards	0.8m (l) x 0.5m (d) x 2.2m (h)	Required on each level centrally located and vertically aligned up through the building within the common corridor with clear access for maintenance.
33	Main Hydraulic Riser	$1m (l) \times 0.5m (w)$	To be located off a common corridor, vertically aligned up through the building.
34	Lifts	2060mm (w) x 2350mm (d)	This figure is the clear internal dimension per lift which excludes the structure. Refer to the lift section for lift numbers and further details.
35	Carpark Exhaust Air Shaft	2.5	Stage 4 car park exhaust shaft sized based on air running directly within a builders works shaft. Extend the existing shaft to achieve the area. Ensure the exhaust air shaft aligns vertically up through the building. Ideally, locate the shaft close to the carpark supply air fan room, to which it connects.
43	Garbage Room Ventilation	0.16	Free space around chutis in garbage chute shafts to be used as duct riser. Refer to the garbage room ventilation section for requirements to assess if exhausting to a local facade is possible. If not, the noted shaft size will be required. We recommend including a hot water heater below the sink in each garbage room. TBD after 4N garbage chutes are recordinated.
45	Kitchen Exhaust shafts	0.4	Locate the vertically aligned fire-rated shafts close to the commercial kitchen exhaust hoods they serve.
46	Kitchen Exhaust shafts	0.6	Locate the vertically aligned fire-rated shafts close to the commercial kitchen exhaust hoods they serve.
47	Kitchen Exhaust shafts	0.8	Locate the vertically aligned fire-rated shafts close to the commercial kitchen exhaust hoods they serve.
50	Lobby Relief	1.26	The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned.
51	Lobby Relief	1.29	The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned.
52	Lobby Relief	1.31	The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned.
53	Lobby Relief	1.34	The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned.
54	Lobby Relief	2.44	The lobby relief grille must connect directly to the communal corridor and have a clear path between it and the fire stair doors that it is relieving air from. The shaft must be vertically aligned.
56	Mechanical pipework riser	0.12	To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building.
57	Mechanical pipework riser	0.3	To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building.
58	Mechanical pipework riser	0.48	To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building.
59	Mechanical pipework riser	0.59	To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building.
60	Mechanical pipework riser	0.60m (l) x 0.45m (w)	To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building.
61	Mechanical pipework riser	0.81	To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building.
62	Mechanical pipework riser	0.95m (l) x 0.45m (w), or 0.85m (l) x 0.55m (w)	To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building. The riser for the lowest 2 levels of apartments of each core can be reduced to 450 x 350, because they are served by condensers in the basement.

On floor comms cupboard(s)

On floor comms cupboard(s)

On floor electrical cupboard

On floor electrical cupboard

0.9m (l) \times 0.5m (d) \times 2.1m (h) To be vertically aligned up through the building located in common areas such as corridors

 $1m (l) \times 0.5m (d) \times 2.1m (h)$ To be vertically aligned up through the building located in common areas such as corridors

 $1m (l) \times 0.55m (d) \times 2.1m (h)$ To be vertically aligned up through the building located in common areas such as corridors

1.2m (l) \times 0.55m (d) \times 2.1m (h) To be vertically aligned up through the building located in common areas such as corridors

Located within 10m of each single occupancy unit. Mounted between 100mm

To be located off a common corridor ideally close to the mechanical plantroom

64	Mechanical pipework riser (Mixed-Use)	$0.43m (l) \times 0.31m (w)$
65	Mechanical pipework riser (Mixed-Use)	0.43m (l) x 0.619m (w)
67	Mechanical pipework riser (Mixed-Use)	0.43m (l) x 0.83m (w)
69	Roof Access Hatch	1m (l) x 1m (w)
70	Stair Pressurisation	1.1
72	Solar PV	140
75	Hot Water Plant	11.0m (l) x 4.5m (w)
80	AC Condenser area	As shown
81	Kitchen Exhaust roof fans	2m (l) x 1m (w) x 1.2m (h)

To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building. To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building. To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building. For each roof as illustrated. Note a roof access hatch should come with a fixed ladder complete with hand railing to provide safe access for maintenance and plant replacement. One required per fire stair. Locate the shaft directly adjoining each fire stair in a dedicated vertically aligned fire-rated enclosure. Based on a 20Kw array, 61 panels per lot. Subject to BASIX input.Locate away from roof edges and areas with overshadowing

Serves 4N & 4S. Note requirement for ventilation through walls as per drawing. The area to which the louvres connect should be well ventilated, to avoid overcooling the car park. Locate close to refrigerant risers noting safe access and plant replacement strategy required. Double stacked.

Locate the rooftop exhaust fans in a safe location for access and maintenance,

near the exhaust shafts and well away (6m minimum) from any air intakes.

/	82	Lobby relief roof fan	$2.2m$ (l) \times $1.2m$ (w) \times $1.3m$ (h)	Locate the fan on the roof, ideally above or directly adjacent the lobby relief shaft below to which they physically connect.
	83	Stair pressurisation roof fans	2.2.m (l) x 0.9m (w) x 1.2m (h)	Locate the fan on the roof, ideally above or directly adjacent the stair pressurisation shaft(s) below to which they physically connect.
	84	Retail AC Condensers	$0.95m$ (l) \times $0.8m$ (d) \times $1.7m$ (h)	Locate outside (or in a well ventilated space like a carpark) close to the retail tenancy it serves.Note fan coil units
	85	Retail AC Condensers	1.9m (l) × 0.8m (d) × 1.7m (h)	Locate outside (or in a well ventilated space like a carpark) close to the retail tenancy it serves.Note fan coil units
	87	Retail AC Condensers	2.9m (l) × 0.8m (d) × 1.7m (h)	Locate outside (or in a well ventilated space like a carpark) close to the retail tenancy it serves.Note fan coil units
_	89	Electrical and Communications Riser	0.6m (l) x 0.5m (d)	Solution for 4N North East Core, serving 1 apartment per level. Internal division between comms and electrical
	96	Kitchen Exhaust shafts	1	Size changed to suit client request for 5,000L/s
	97	Mechanical pipework riser	1.2m (l) x 0.25m (d)	Serving lower level apartments in 3S. To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building.
	98	Mechanical pipework riser	1.2m (l) × 0.45m (d), or 1.45m (l) × 0.35m (d)	Serving upper level apartments in 3S. To be located off a common corridor, ideally close to the mechanical plantroom. The riser should be vertically aligned up through the building.

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Jaggers



EAST END STAGE 3 & 4

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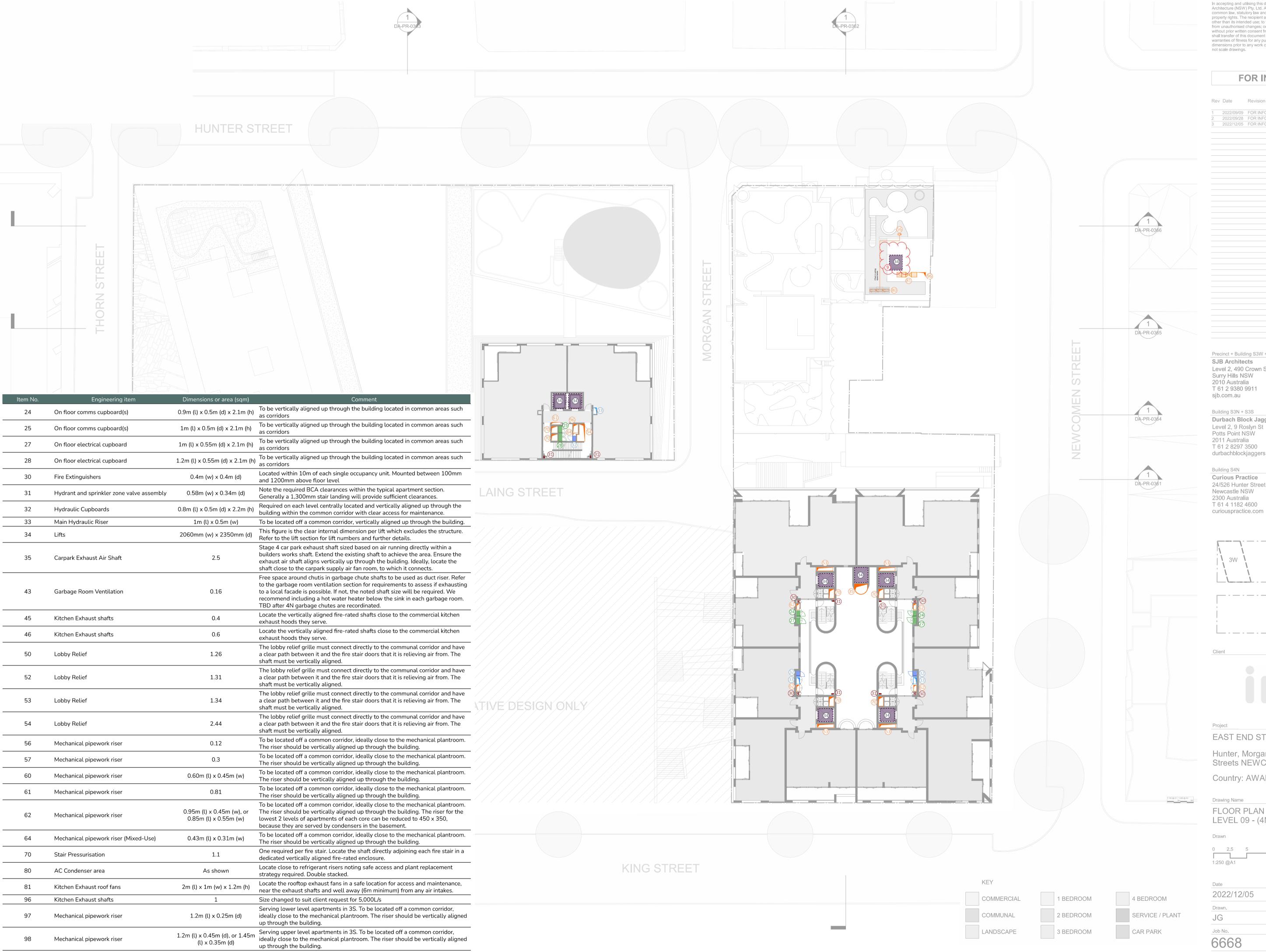
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2	2022/09/28	FOR INFORMATION	JG	R\
3	2022/12/05	FOR INFORMATION	JG	R)

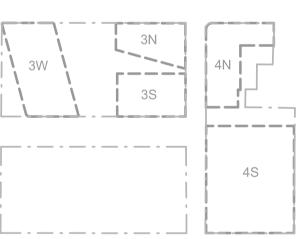


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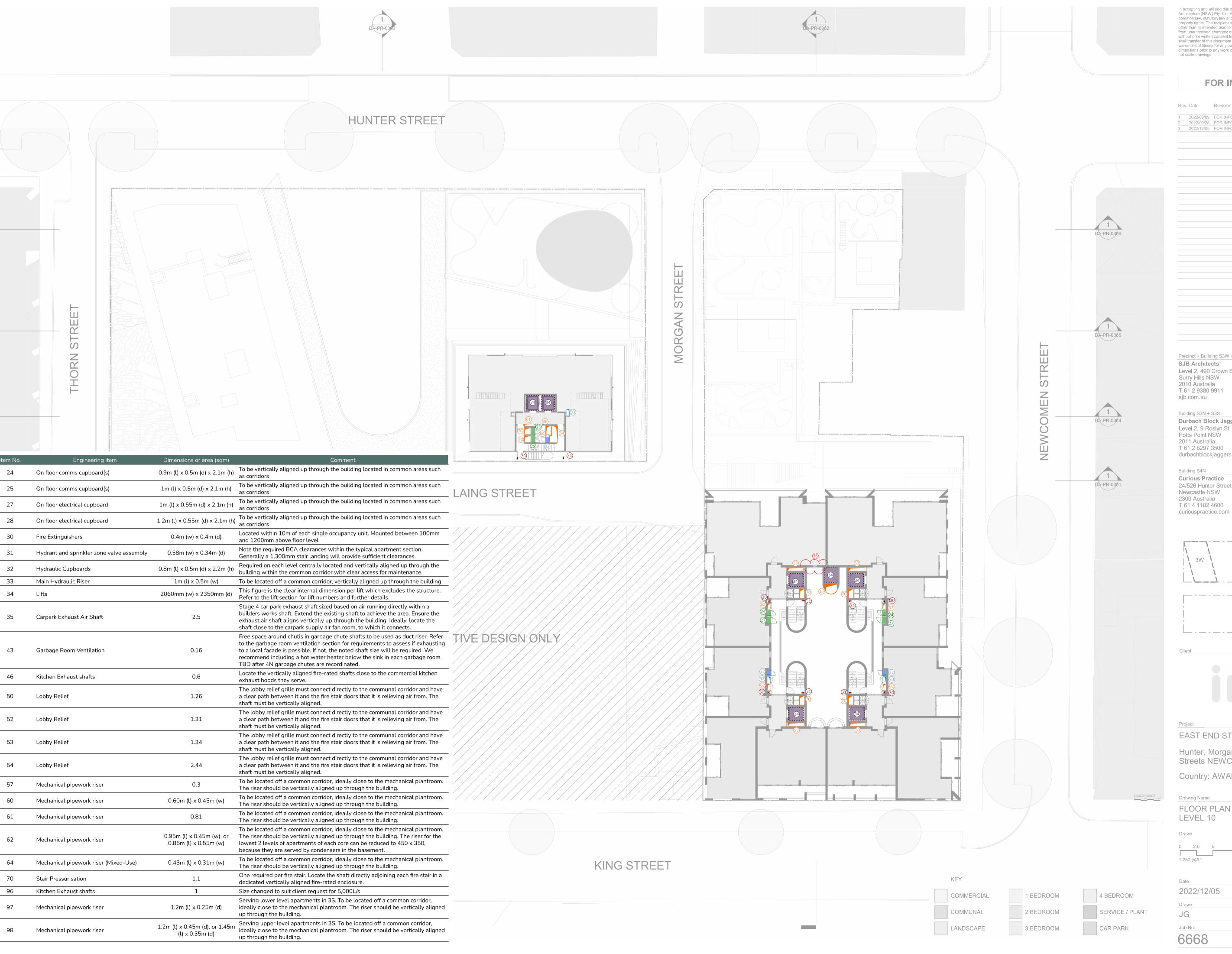
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FLOOR PLAN - PRECINCT -LEVEL 09 - (4N ROOF)

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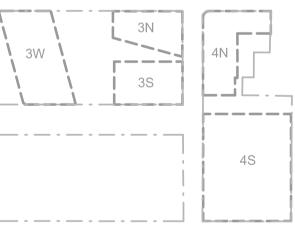
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3	2022/12/05	FOR INFORMATION	JG	R

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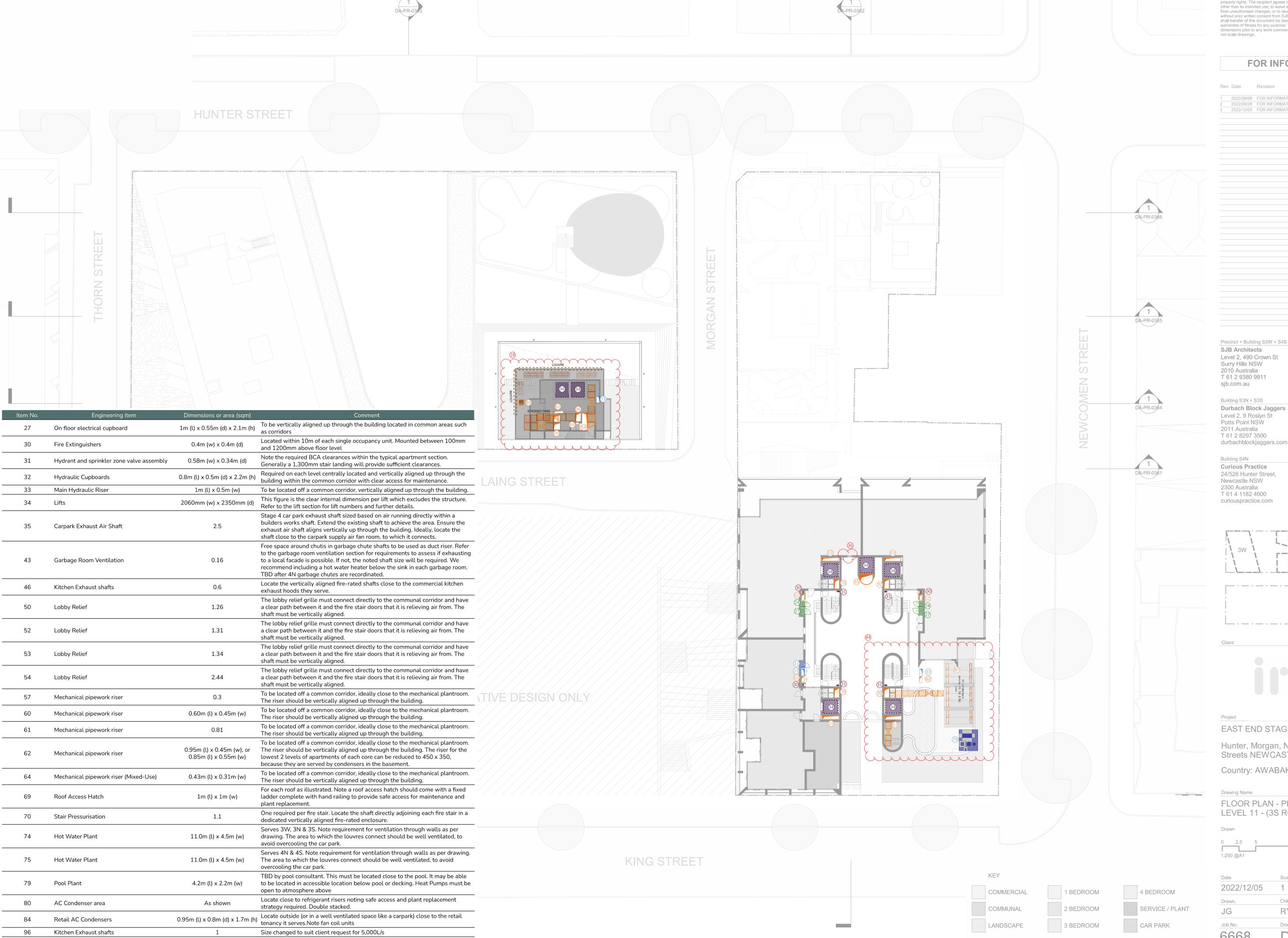
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Drawing Name

FLOOR PLAN - PRECINCT -LEVEL 10

1:250 @ A1 Chk. Revision RY

Drawing No.



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FOR INFORMATION

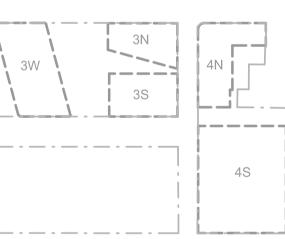
Rev	Date	Revision	Ву	Ch
1	2022/09/09	FOR INFORMATION	JG	VV
2	2022/09/28	FOR INFORMATION	JG	R
3	2022/12/05	FOR INFORMATION	JG	R'

Level 2, 490 Crown St

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EAST END STAGE 3 & 4

Hunter, Morgan, Newcomen, King Streets NEWCASTLE NSW 2300

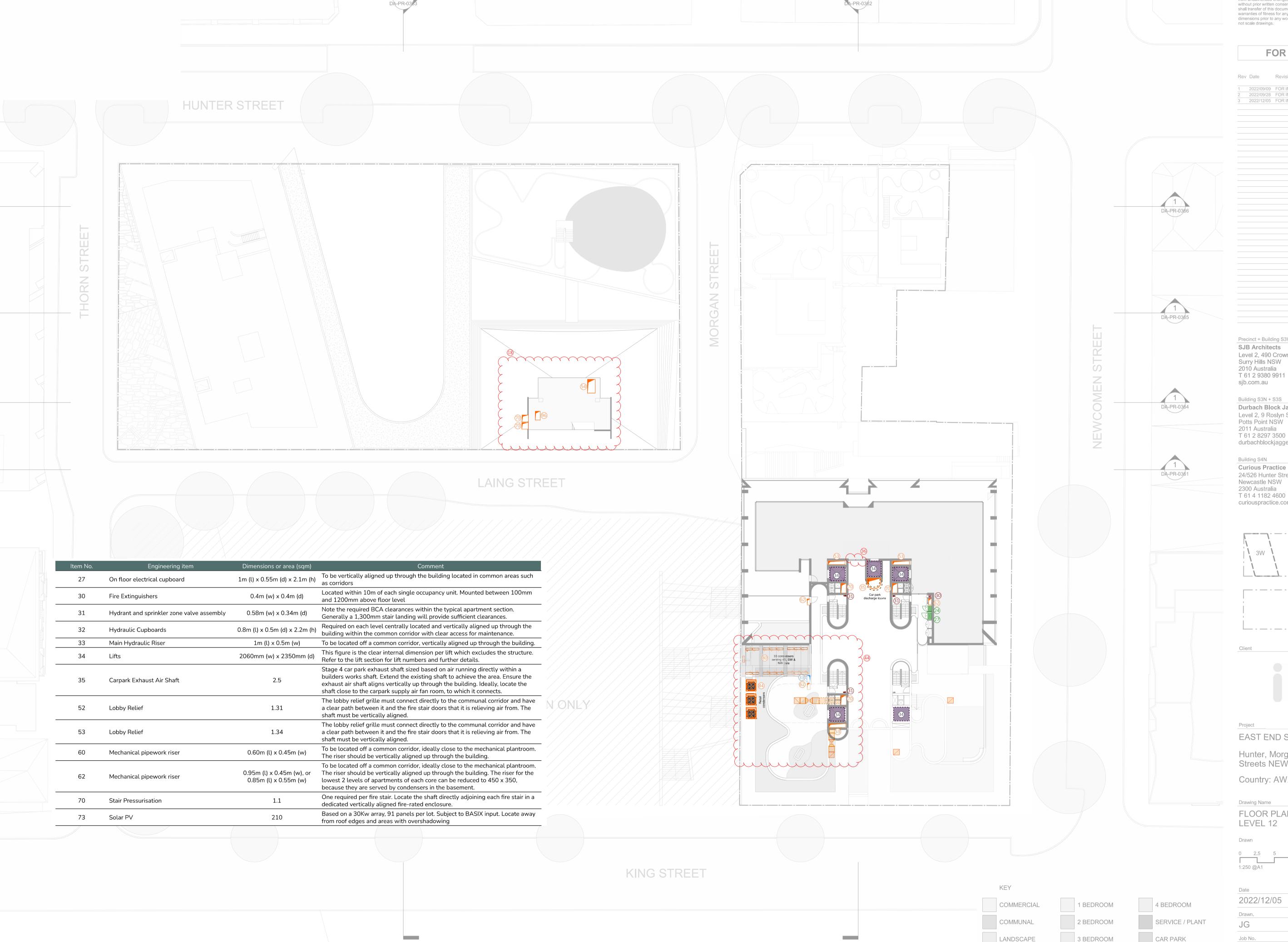
Country: AWABAKAL

Drawing Name

FLOOR PLAN - PRECINCT -LEVEL 11 - (3S ROOF)

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Rev	Date	Revision	Ву
1	2022/09/09	FOR INFORMATION	JG
2	2022/09/28	FOR INFORMATION	JG
3	2022/12/05	FOR INFORMATION	JG

Precinct + Building S3W + S4S SJB Architects Level 2, 490 Crown St Surry Hills NSW

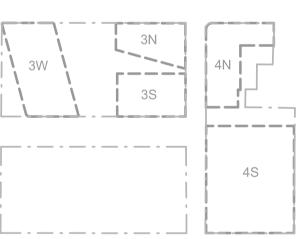


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PRACTICE



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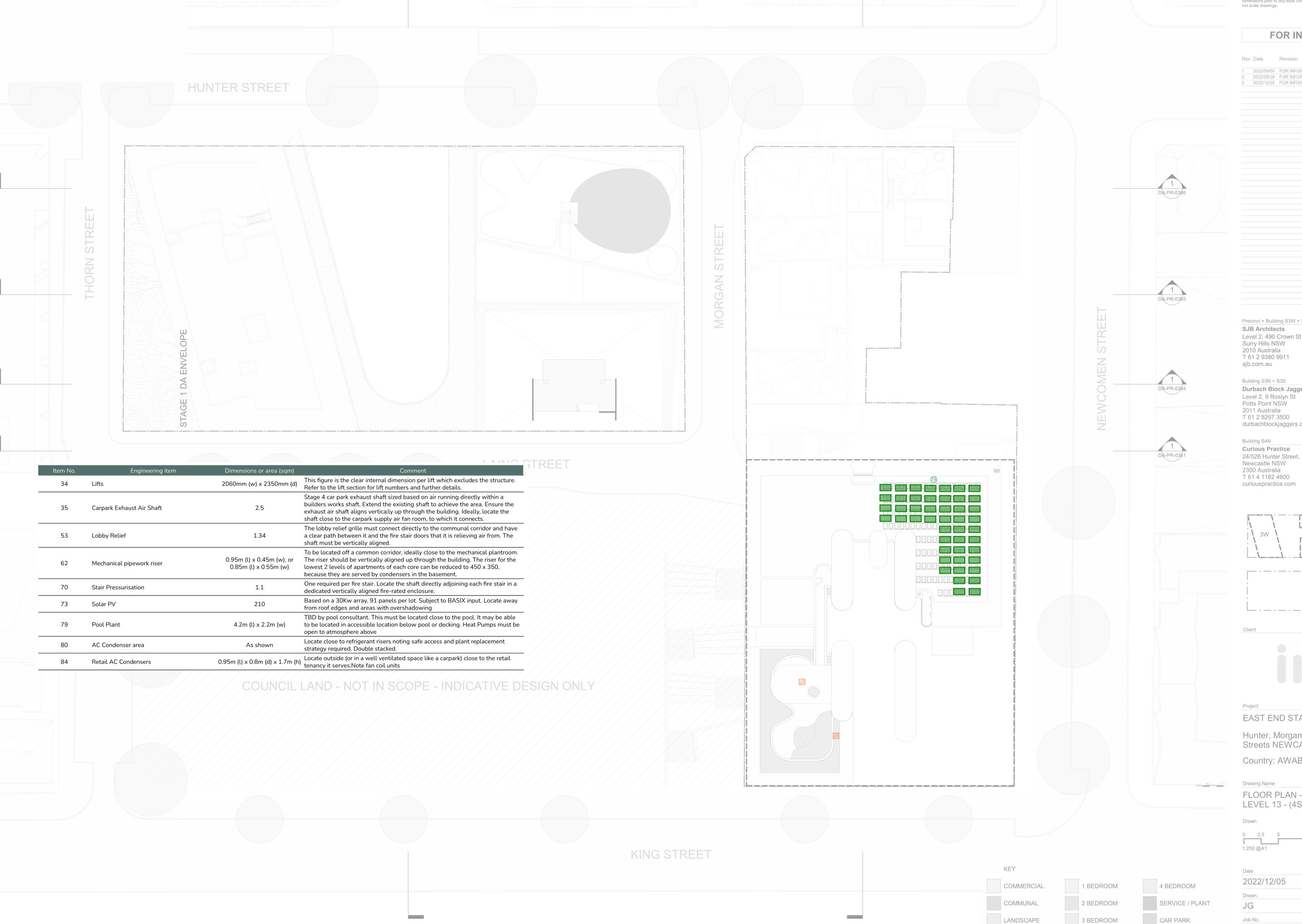
FLOOR PLAN - PRECINCT -LEVEL 12

1:250 @ A1 Revision

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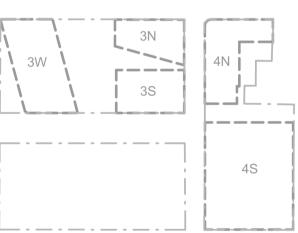
Rev	Date	Revision	Ву	Ch
1	2022/09/09	FOR INFORMATION	JG	VV
2	2022/09/28	FOR INFORMATION	JG	R
3	2022/12/05	FOR INFORMATION	JG	R

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FLOOR PLAN - PRECINCT -LEVEL 13 - (4S ROOF)

Scale Sheet Size 2022/12/05 1:250 @ A1 Revision Chk. RY

Drawing No.

6668