

PROJECT:

URBANICA
THE FIFTH HOTEL

803 5TH STREET
MIAMI BEACH,
FLORIDA



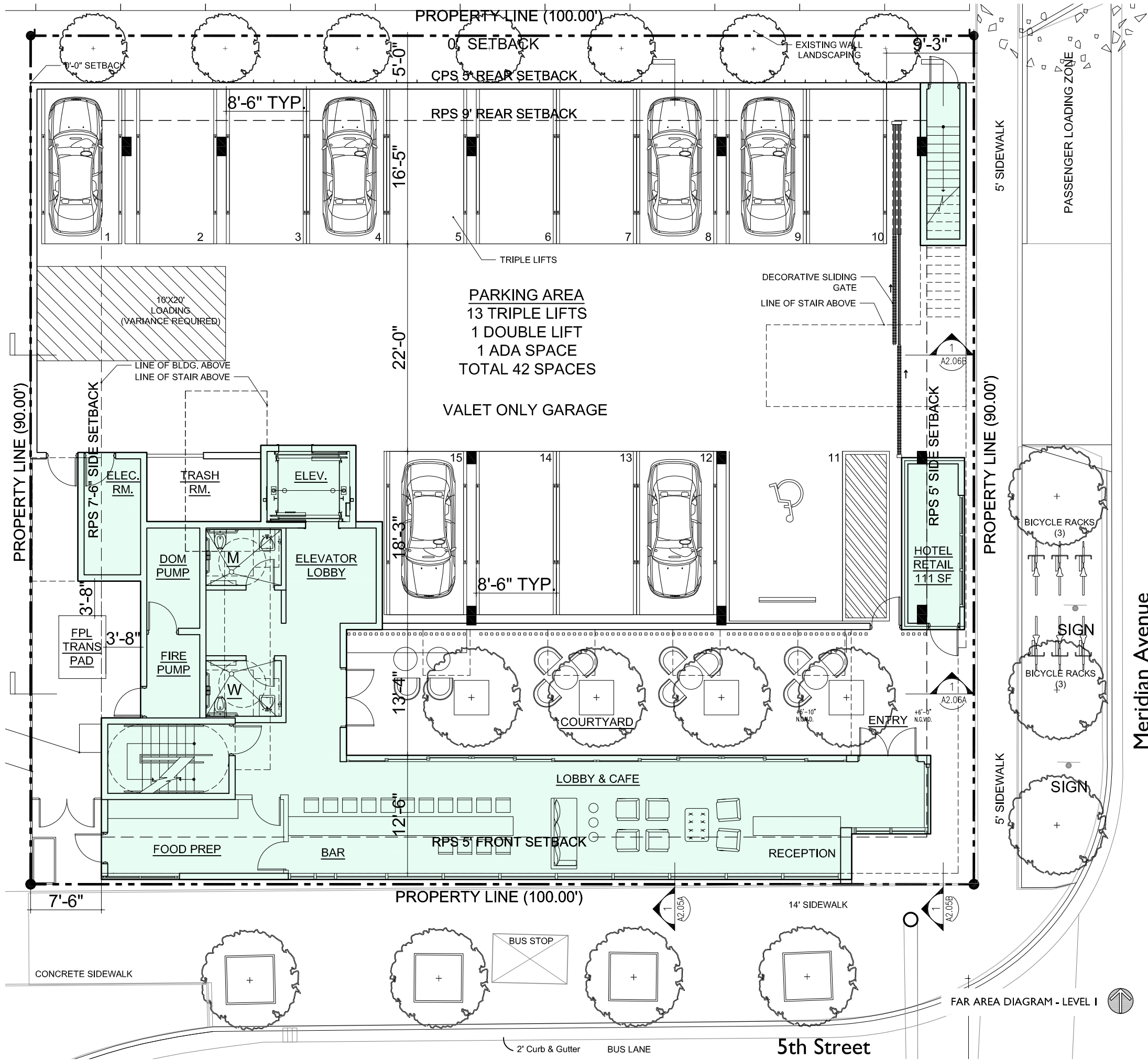
DRAWING:

FAR DIAGRAM
LEVEL I

AREA CALCULATIONS

LEVEL	GROSS	FAR
GROUND FLOOR	7,947 SF	1,735 SF
TRIPLE LIFTS (14)	3,920 SF	
LEVEL 2	6,846 SF	3,998 SF
LEVEL 3	4,402 SF	3,881 SF
LEVEL 4	4,402 SF	3,911 SF
LEVEL 5	4,557 SF	3,881 SF
ROOF LEVEL	4,135 SF	552 SF
TOTAL	36,209 SF	17,958 SF

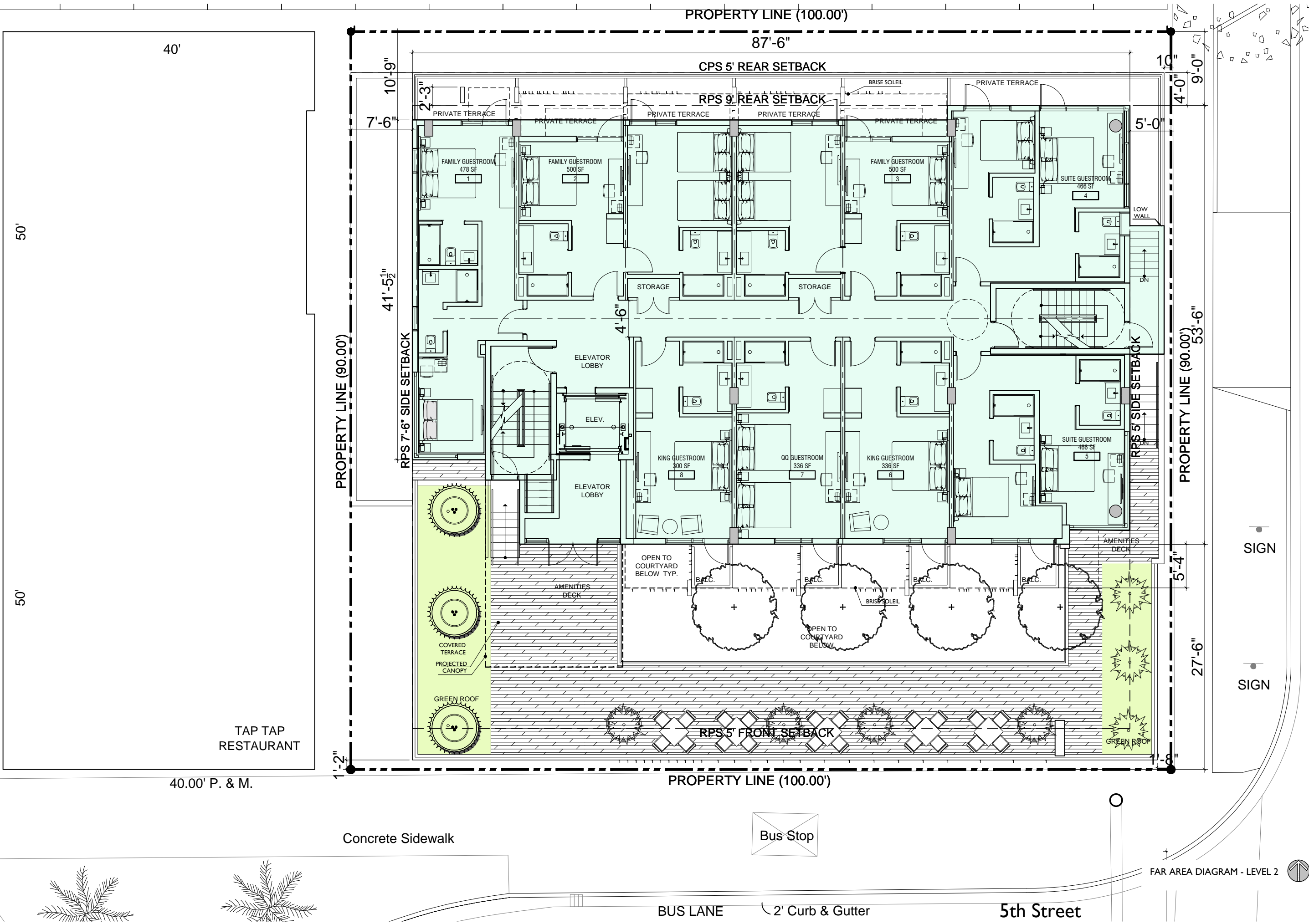
JENNIFER McCONNEY FLORIDA LIC# AR33044
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SCALE: 3/32" = 1'-0"
CHECK: JMcG
DATE: 10/26/2017
SHEET NUMBER

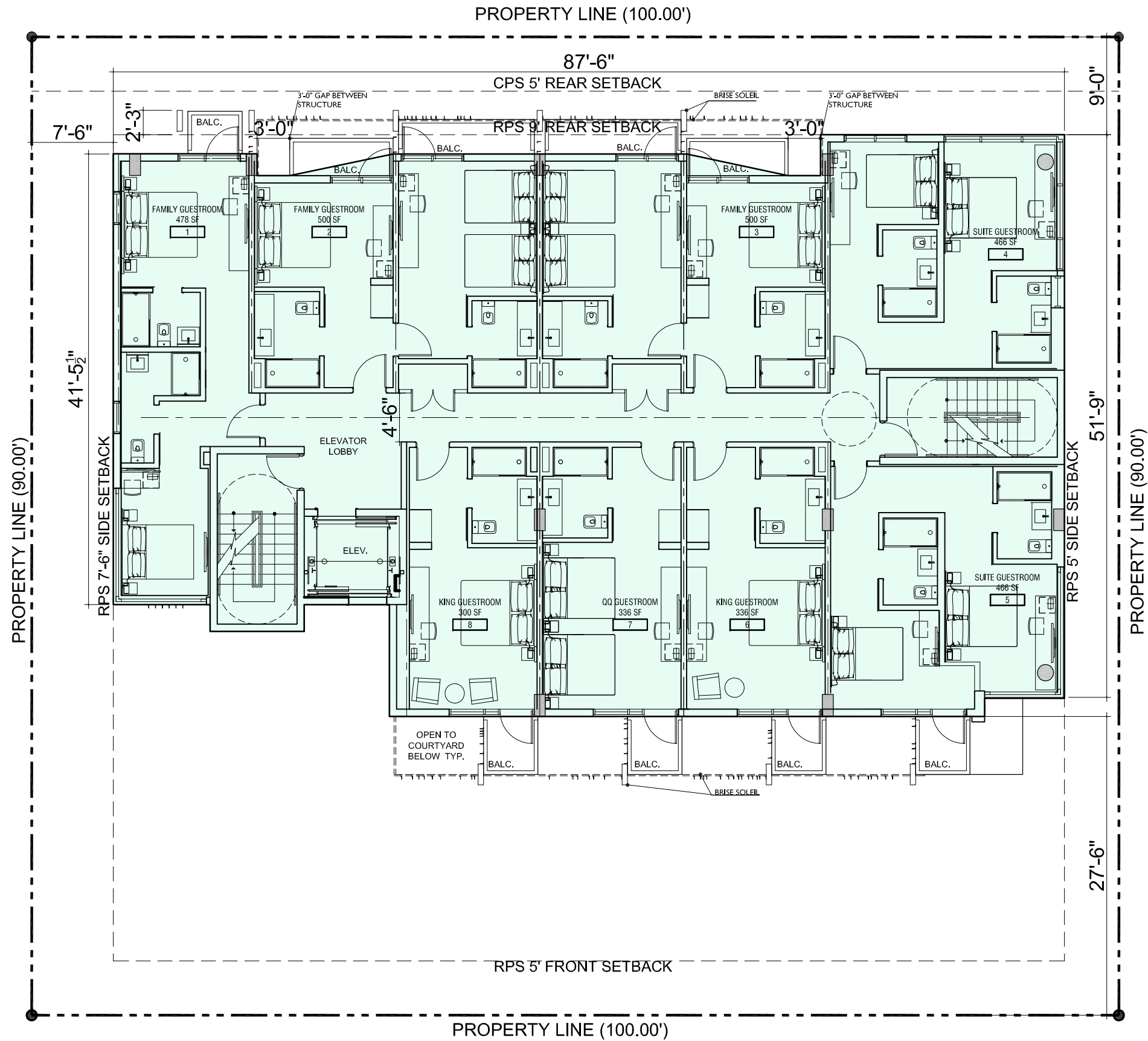


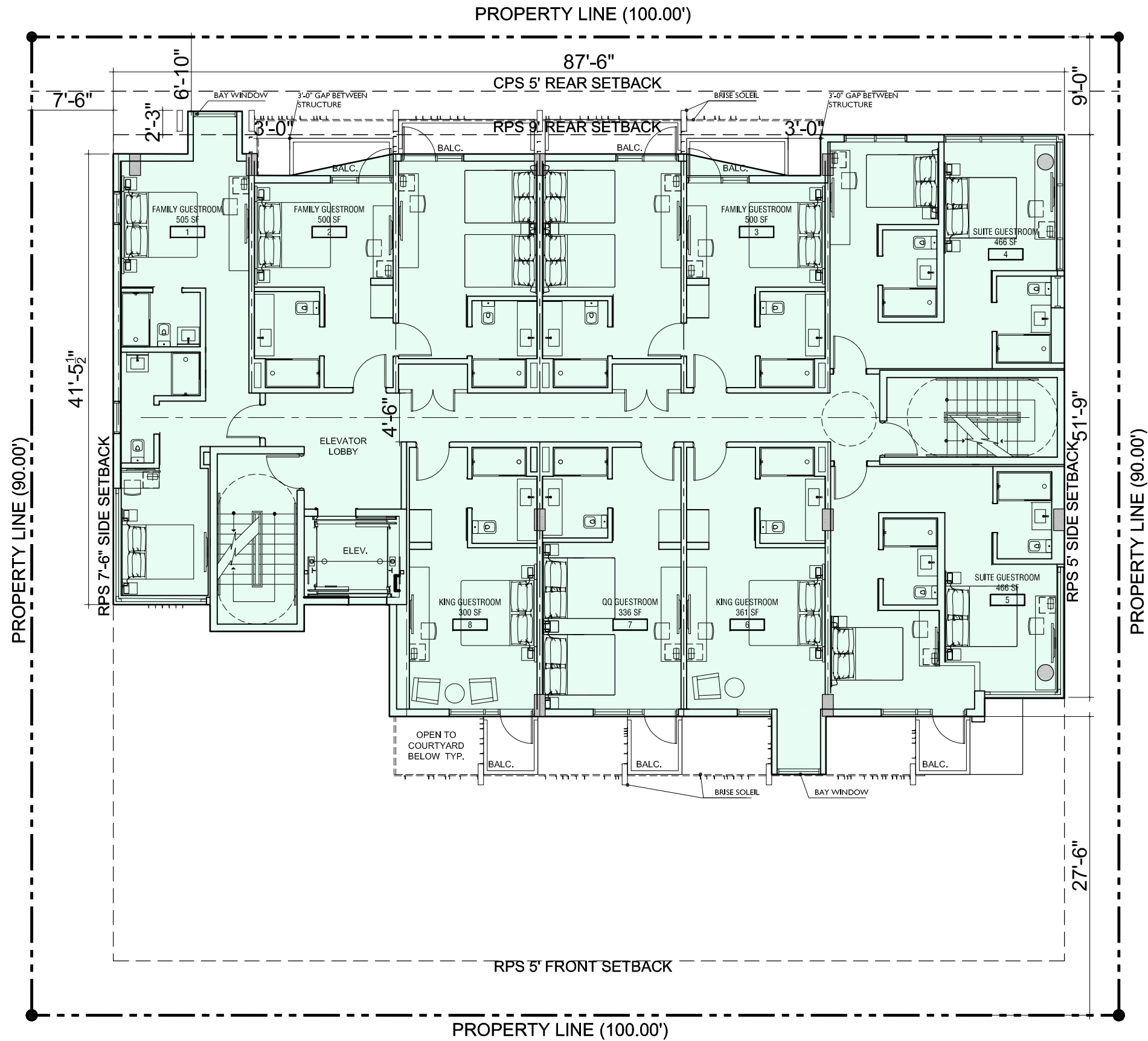
Meridian Avenue

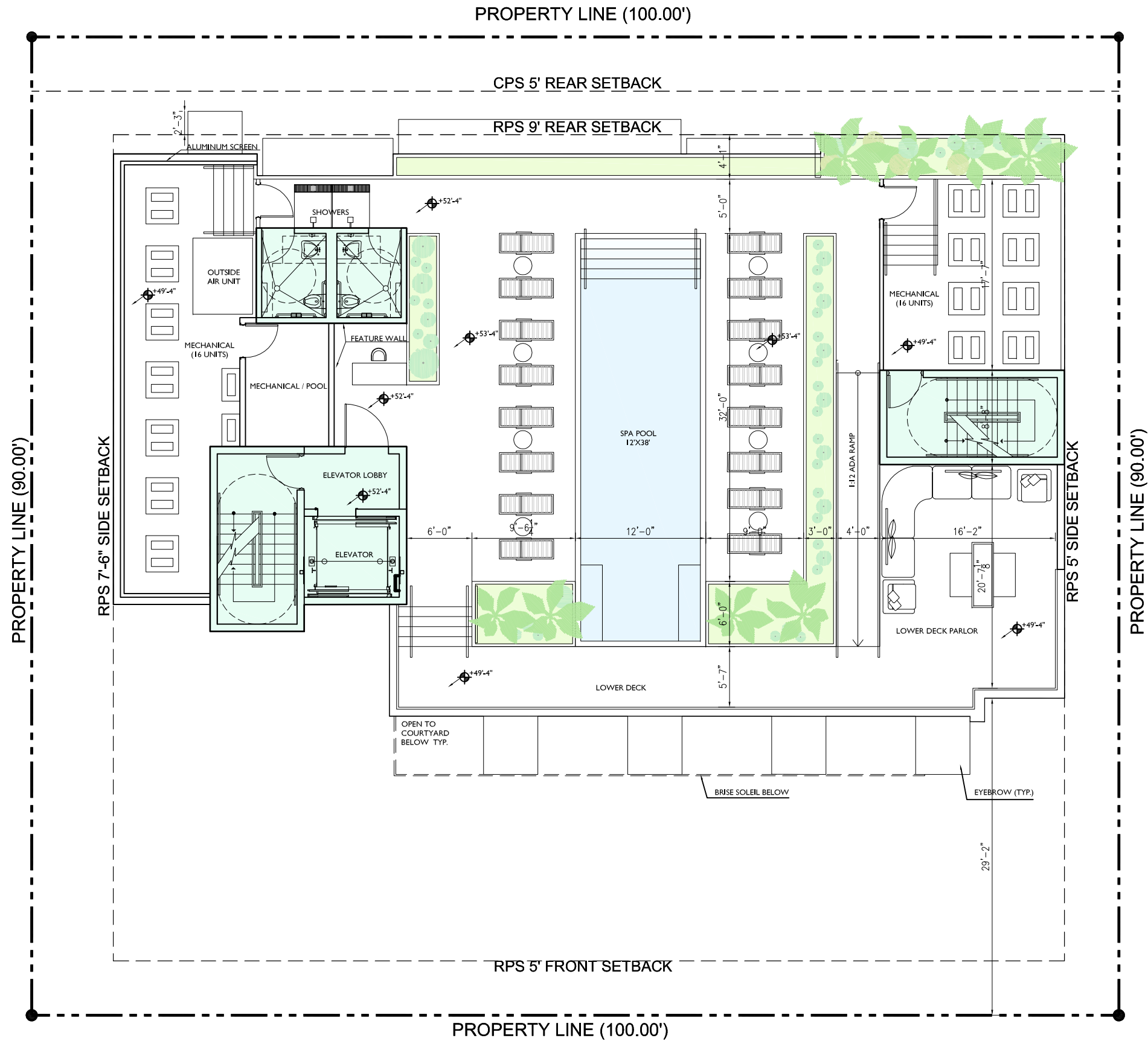
FAR AREA DIAGRAM - LEVEL I

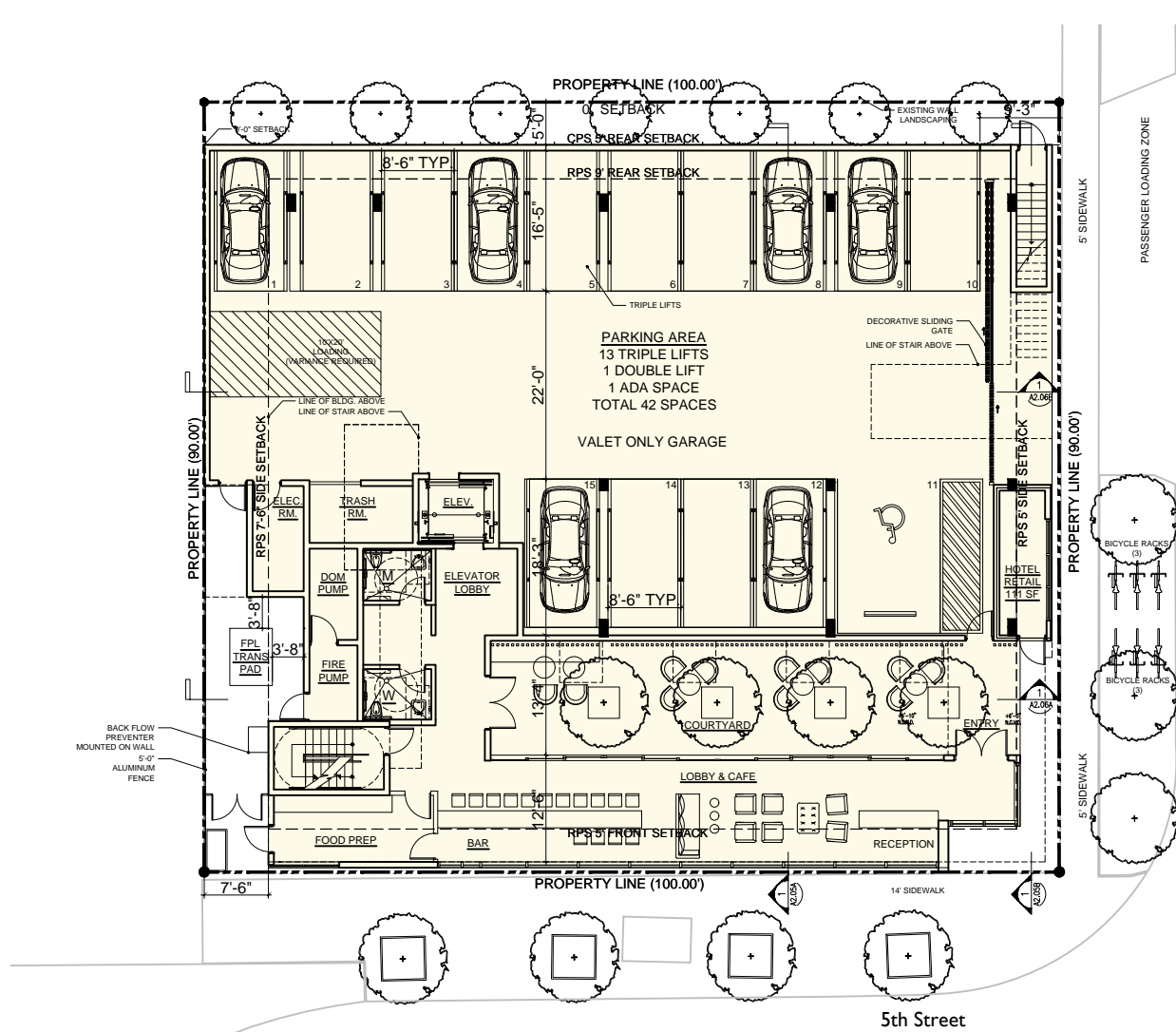
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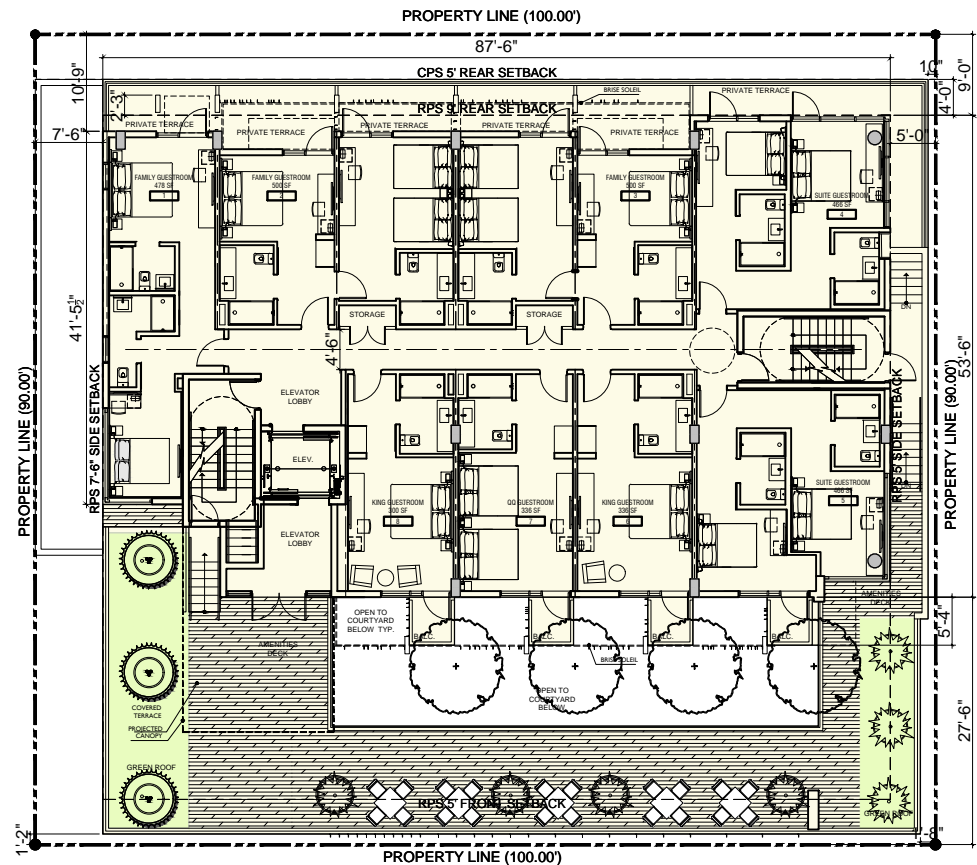




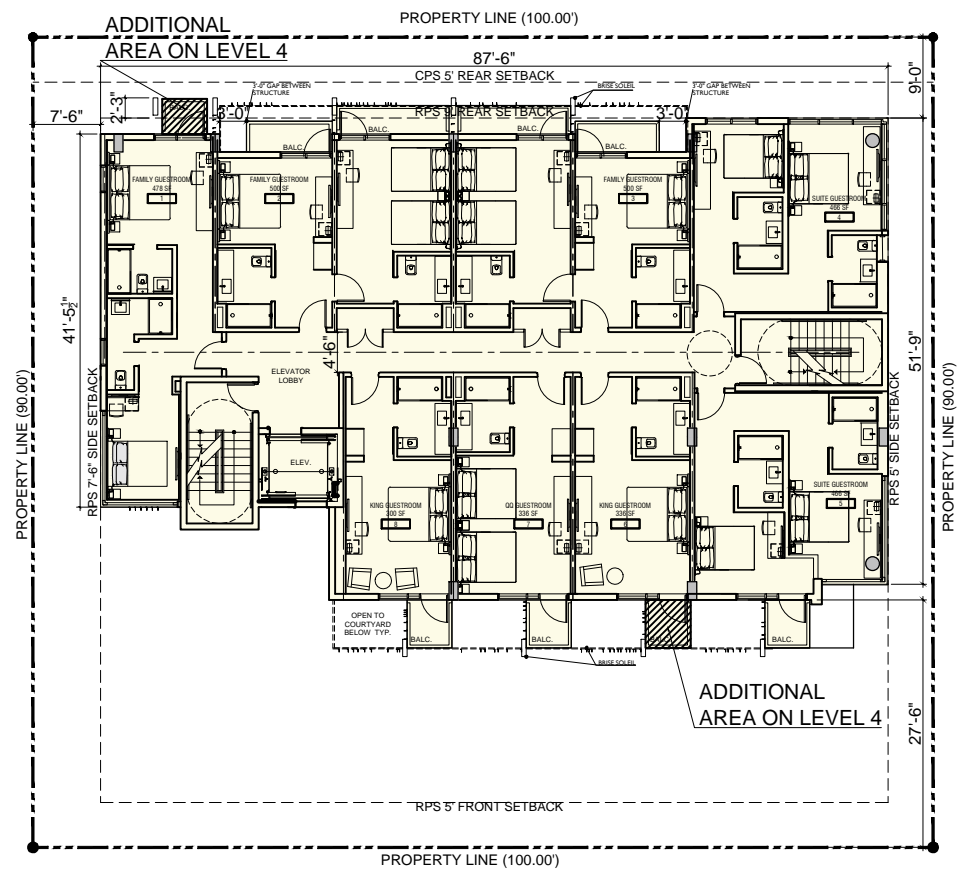




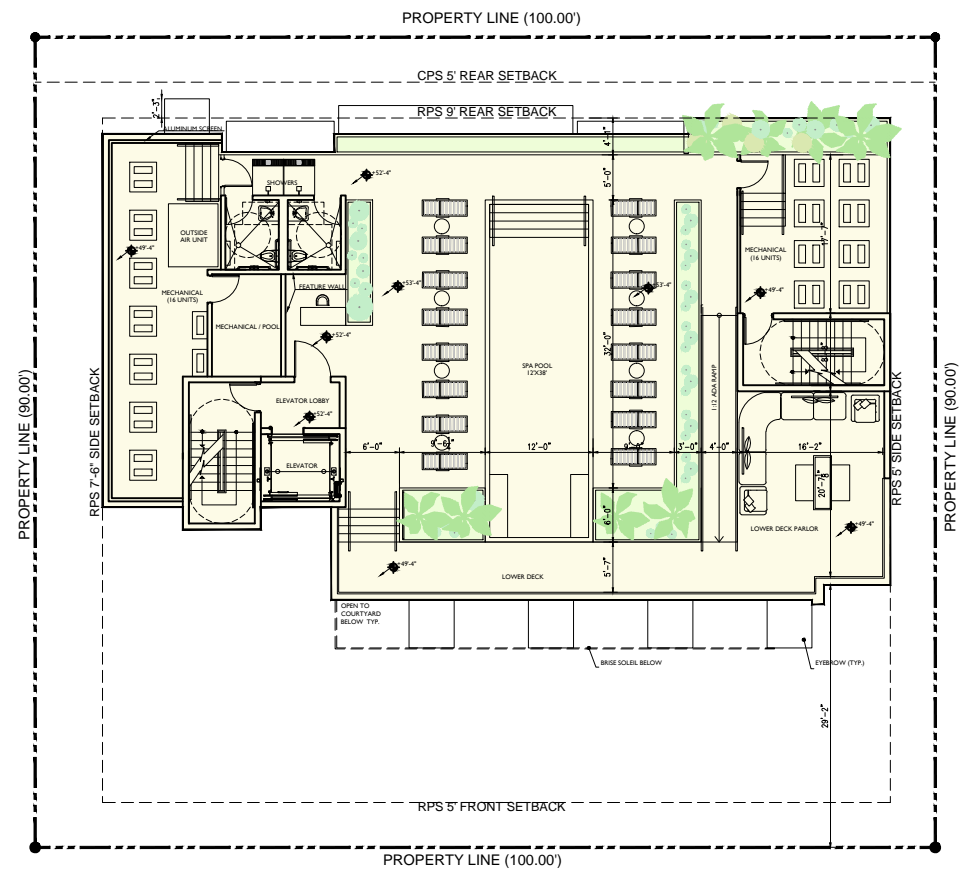
GROSS AREA DIAGRAM - LEVEL 1



GROSS AREA DIAGRAM - LEVEL 2

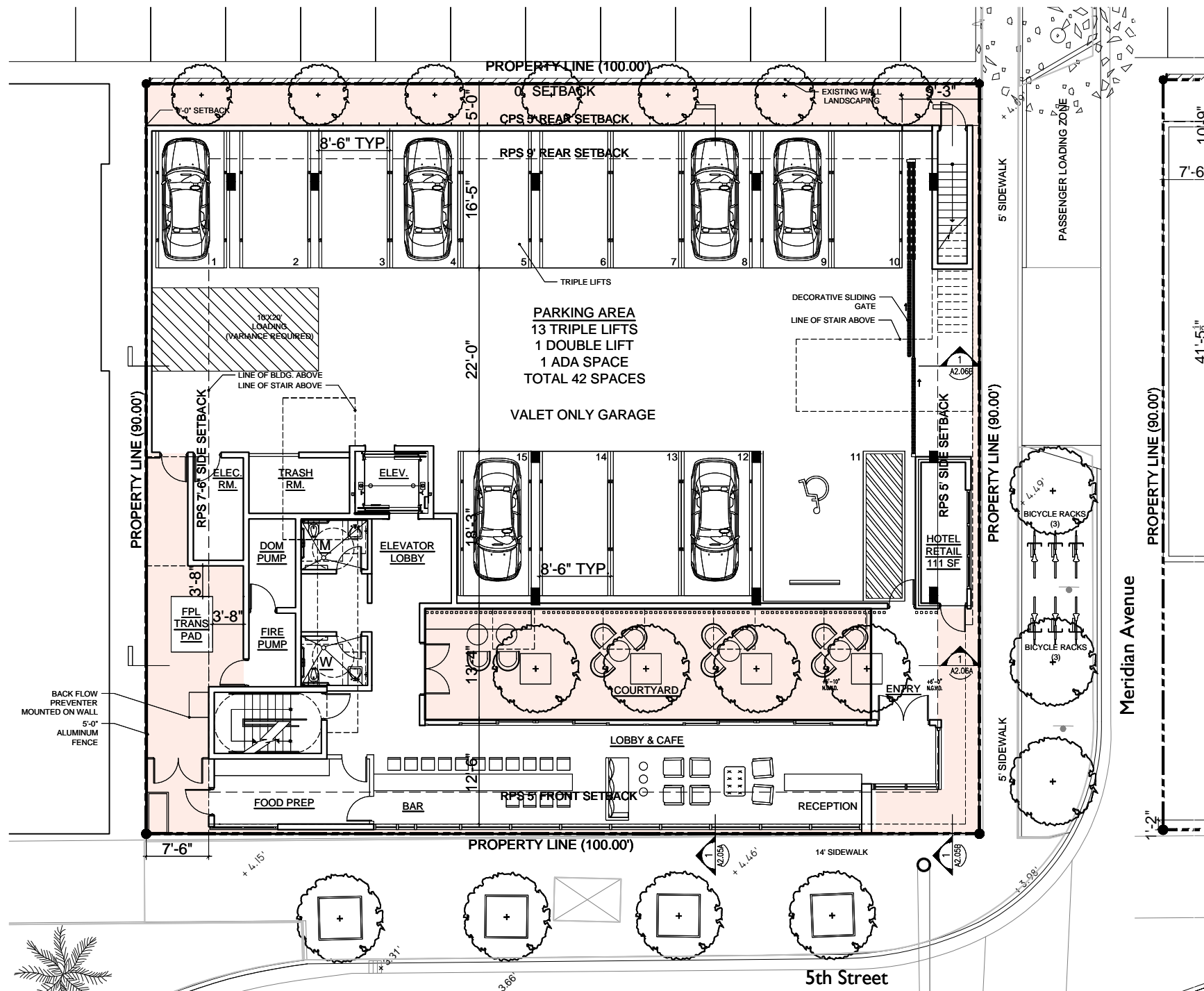


GROSS AREA DIAGRAM - LEVEL 3-5

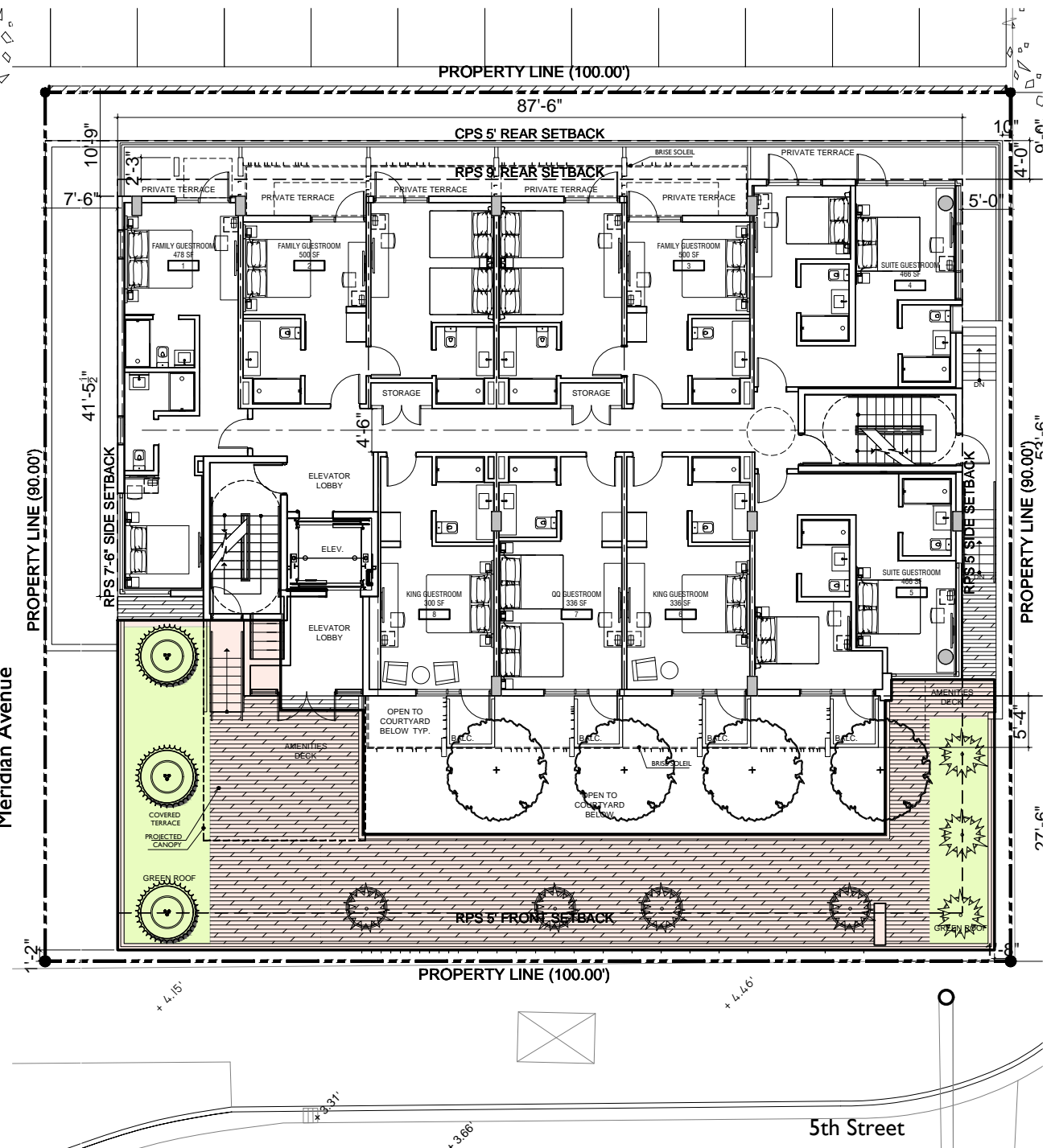


GROSS AREA DIAGRAM - ROOF LEVEL

GROSS AREA
DIAGRAM



OPEN SPACE GROUND LEVEL	1,866 SF
OPEN SPACE SECOND LEVEL	1,755 SF
(LANDSCAPE AREA SECOND LEVEL	590 SF)
OPEN SPACE TOTAL	3,621 SF



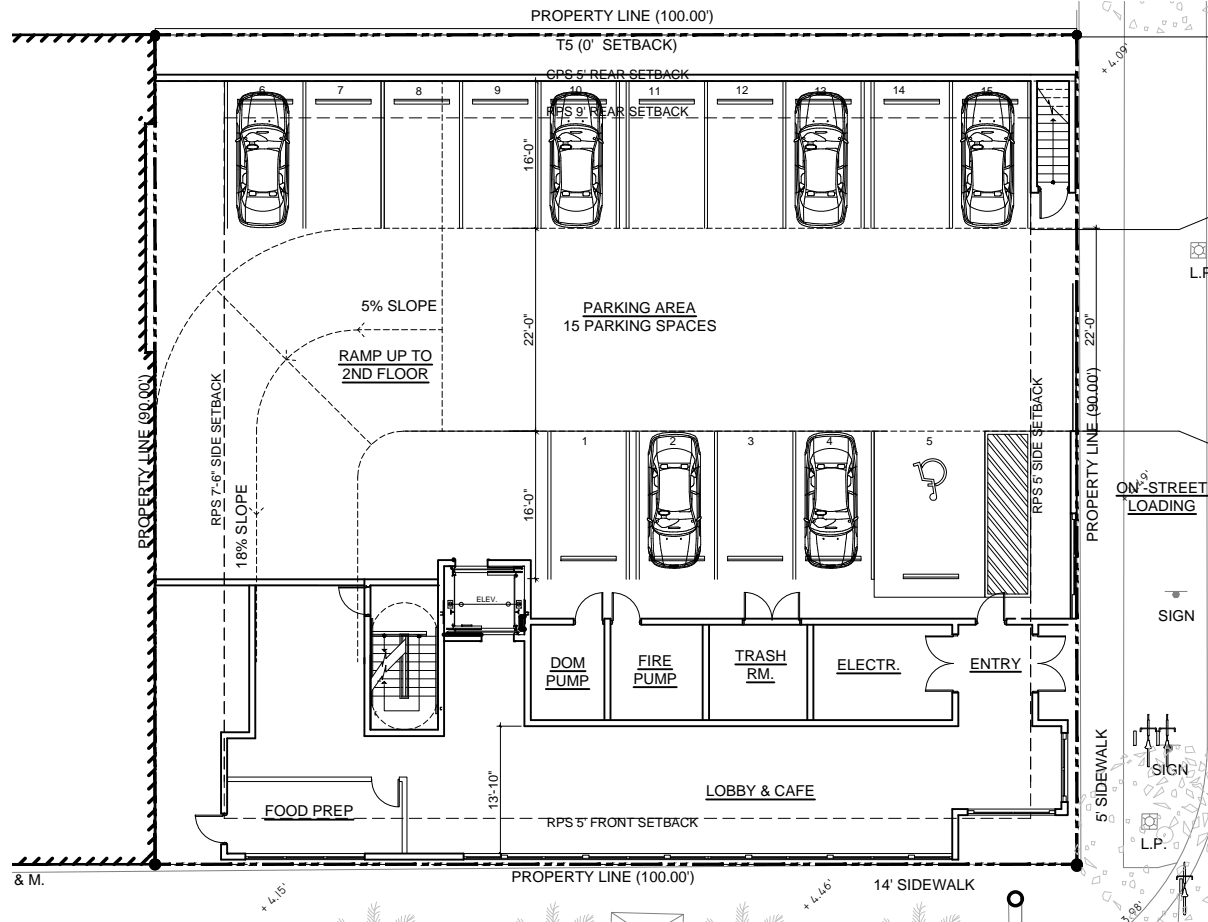
OPEN SPACE DIAGRAM



A 3.06

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SCALE:	$\frac{3}{32}'' = 1'-0''$
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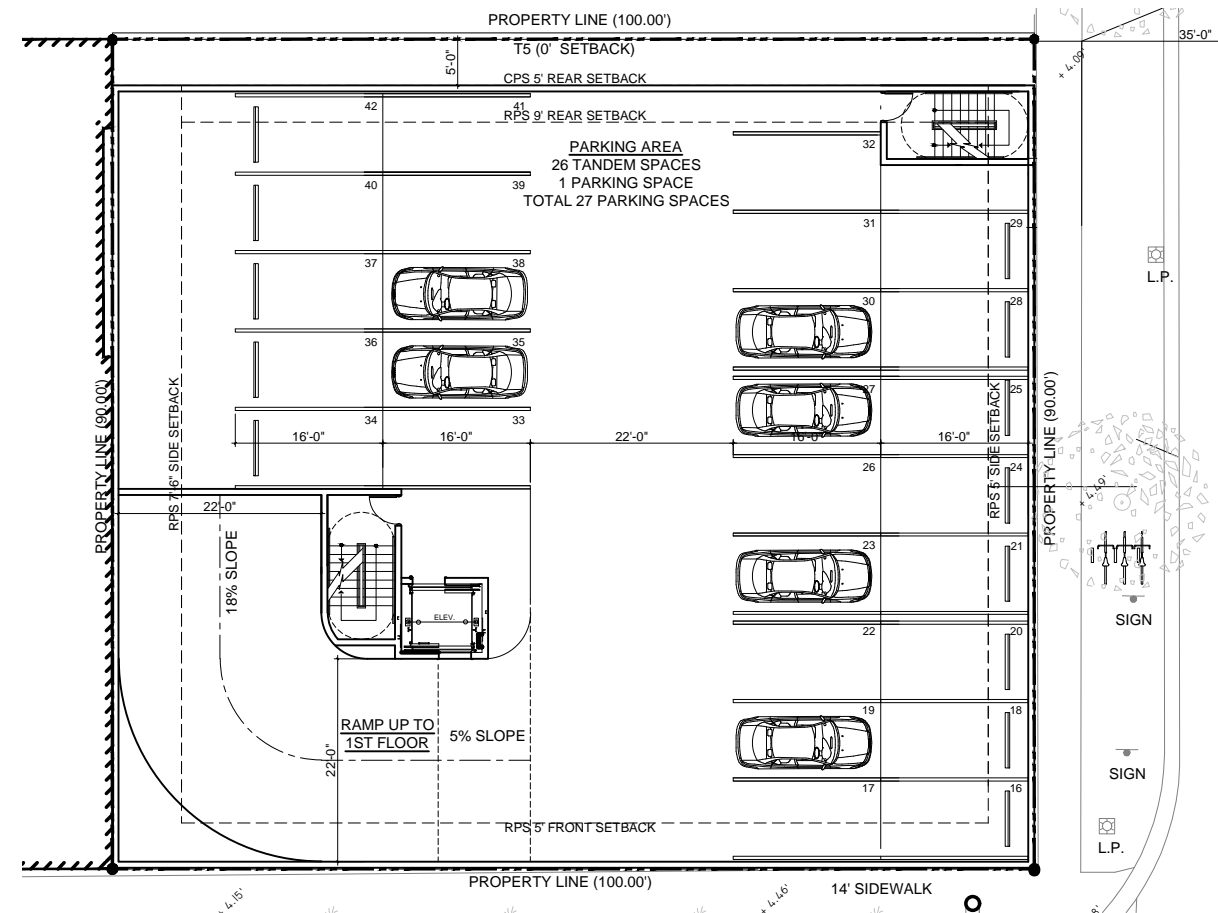


1
1" = 250'

ALTERNATIVE PARKING PLAN - LEVEL 1

3
1" = 250'

ALTERNATIVE PARKING PLAN 3-5 FLOOR



2
1" = 250'

ALTERNATIVE PARKING PLAN - 2ND FLOOR

MAP OF BOUNDARY SURVEY

PROPERTY ADDRESS: 803 5TH STREET,
MIAMI BEACH, FLORIDA 33139

PROJECT No. 17684

PAGE | OF |

LEGAL DESCRIPTION:
THE EAST 100 FEET OF LOTS 7 AND 8 IN BLOCK 74, LESS THE SOUTH TEN (10) FEET OF THE EAST 100 FEET OF SAID LOT 8, BLOCK 74, OCEAN BEACH, FLA. ADDITION NO. 3 ACCORDING TO THE MAP THEREOF, AS RECORDED IN PLAT BOOK 2 , PAGE 81 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

SURVEYOR'S REPORT AND GENERAL NOTES
(NOT VALID WITHOUT THE ATTACHED SURVEY MAP)

- LEGAL DESCRIPTION HAS BEEN FURNISHED BY THE CLIENT.
- REFERENCES TO "DEED", "RECORD" OR "PLAT" REFER TO DOCUMENTS AND INSTRUMENTS OF RECORD AS PART OF THE PERTINENT INFORMATION USED FOR THIS SURVEY WORK. MEASURED DISTANCES, DIRECTIONS AND ANGLES ALONG BOUNDARY LINES ARE IN CONSISTENCY WITH CORRESPONDING VALUES FROM RECORDS, UNLESS OTHERWISE SHOWN.
- THESE LANDS ARE SUBJECT TO ADDITIONAL RESTRICTIONS OF RECORD THAT WERE NOT FURNISHED TO THE UNDERSIGNING REGISTERED SURVEYOR. A TITLE SEARCH HAS NOT BEEN PERFORMED.
- NORTH ARROW DIRECTION IS BASED ON AN ASSUMED MERIDIAN.
- ONLY ABOVE GROUND IMPROVEMENTS ARE SHOWN HEREIN. FOUNDATIONS, UNDERGROUND FEATURES AND UTILITIES HAVE NOT BEEN LOCATED.
- FENCE OWNERSHIP HAS NOT BEEN DETERMINED. DISTANCES FROM EXISTING FENCES TO BOUNDARY LINES ARE APPROXIMATE. FENCE/WALLS WIDTH AND CONDITIONS MUST BE CONSIDERED TO DETERMINE TRUE LOCATION.
- LANDS LOCATED BEYOND PERIMETER FENCES MIGHT OR MIGHT NOT BE BEING USED BY ADJOINERS. ADJOINING PARCELS HAVE NOT BEEN INVESTIGATED.
- THIS SURVEY MAP IS INTENDED TO BE DISPLAYED AT THE SCALE SHOWN HEREON. DATA IS EXPRESSED IN U.S. SURVEY FOOT.
- THIS SURVEY MAP IS BEING PREPARED FOR THE USE OF THE PARTY/PARTIES THAT IT IS CERTIFIED TO AND DOES NOT EXTEND TO ANY UNNAMED INDIVIDUAL, ENTITY OR ASSIGNEE.
- FLOOD PLAIN INFORMATION: AS SCALED FROM FEDERAL INSURANCE RATE MAP (FIRM) OF COMMUNITY No. 120651 (CITY OF MIAMI BEACH), PANEL 0319, SUFFIX L, REVISED ON SEPT 11TH, 2009, THIS REAL PROPERTY FALLS IN ZONE "AE" WITH BASE FLOOD ELEVATION 8 FEET
- HORIZONTAL ACCURACY: ACCURACY OBTAINED THRU MEASUREMENTS AND CALCULATIONS MEETS AND EXCEEDS THE MINIMUM HORIZONTAL FEATURE ACCURACY FOR AN URBAN AREA BEING EQUAL TO 1 FOOT IN 7, 500 FEET.
- VERTICAL CONTROL AND ACCURACY: THE ELEVATIONS AS SHOWN ARE REFERRED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 1929). THE CLOSURE IN FEET, AS COMPUTED, MEETS THE STANDARD OF PLUS OR MINUS 0.05 FEET TIMES THE SQUARED ROOT OF THE LOOP DISTANCE IN MILES. ELEVATION ARE BASED ON A LEVEL LOOP FROM AND TO THE FOLLOWING OFFICIAL BENCH MARKS:
BENCH MARK # 1: MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT BENCH MARK D-II6, ELEVATION = 5.03 FEET
LOCATION: 5 ST --- 85' SOUTH OF C/L, WASHINGTON AVE --- 39' EAST OF C/L
DESCRIPTION: PK NAIL AND ALUMINUM WASHER IN CONC CATCH BASIN.
BENCH MARK # 2: MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT BENCH MARK D-I46, ELEVATION = 8.84 FEET
LOCATION: 5 ST --- ON C/L, OCEAN DR --- 46' WEST OF C/L
DESCRIPTION: PK NAIL AND BRASS WASHER IN CONC BULLNOSE, WEST OF INTERSECTION.

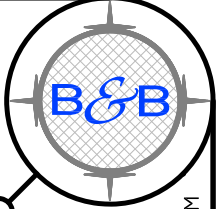
LEGEND & ABBREVIATIONS

	= CONCRETE (CONC.)
	= CONC. BLOCK WALL
	= WOOD DECK
	= COVERED AREA
	= ASPHALT
	= CHAIN LINK FENCE (CLF)
	= WOOD FENCE (WF)
	= IRON METAL BARS FENCE (IF)
	= OVERHEAD WIRES
	= WATER VALVE (WV)
	= POWER POLE (PP)
	= GUY ANCHOR
	= WATER METER (WM)
	= CONC. LIGHT POLE (LP)
	= WELL
	= STREET SIGN
	= SANITARY MANHOLE
	= DRAINAGE MANHOLE
	= MANHOLE
	= FIRE HYDRANT
	= CABLE BOX (CATV)
	= FPL TRANSFORMER
	= CATCH BASIN OR INLET
	= EXISTING ELEVATION
	= PERMANENT REFERENCE MONUMENT (PRM)
	= PERMANENT CONTROL POINT (PCP)
	= PERMANENT CONTROL POINT (PCP)
	= POINT OF TANGENCY
	= POINT OF CURVATURE
	= POINT OF COMPOUND CURVE
	= POINT OF REVERSE CURVE
	= BENCH MARK
	= BEARING REFERENCE
	= TEMPORARY BENCH MARK
	= PROPERTY LINE
	= CENTER LINE
	= MONUMENT LINE
	= CALCULATED
	= FIELD MEASURED
	= PER PLAT
	= PROFESSIONAL SURVEYOR AND MAPPER
	= AIR CONDITIONER PAD
	= ENCROACHMENT
	= FINISHED FLOOR ELEVATION
	= PLAT BOOK
	= OFFICIAL RECORD BOOK
	= CONCRETE BLOCK STRUCTURE
	= RIGHT OF WAY
	= ELEVATION
	= SECTION
	= TOWNSHIP
	= RANGE

I HEREBY CERTIFY TO:
SOBE 5, LLC.
THAT THIS SURVEY CONFORMS TO THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN APPLICABLE PROVISIONS OF CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027 FLORIDA STATUTES. THIS SURVEY IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ODALYS C. BELLO-IZNAGA
PROFESSIONAL SURVEYOR AND MAPPER LS6169 · STATE OF FLORIDA
FIELD WORK DATE: 09/16/2017

ADDITIONS AND DELETIONS TO THIS SURVEY MAP ARE PROHIBITED. THIS SURVEY MAP AND REPORT ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OR WITHOUT THE AUTHENTICATED ELECTRONIC SIGNATURE AND SEAL OF THE UNDERSIGNING FLORIDA LICENSED SURVEYOR AND MAPPER.



BELLO & BELLO
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PHONE: 305.251.9606 · FAX: 305.251.6057
E-MAIL: INFO@BELLOLAND.COM · WWW.BELLOLANDSURVEYING.COM

0 10 20

SCALE: 1" = 20'



LOT - 6
BLOCK - 74

FOUND 1/2" IRON
PIPE NE CORNER
LOT 3, BLOCK 74

FOUND 1/2" IRON
PIPE NE CORNER
LOT 4, BLOCK 74

FOUND 1/2" IRON
PIPE NE CORNER
LOT 5, BLOCK 74

FOUND 1/2" IRON
PIPE

100.00'

EAST 100 FEET
LOT - 7, BLOCK - 74

WEST 40 FEET
LOT - 7, BLOCK - 74

BEING OCCUPIED
BY ADJACENT PROPERTY
(NO ACCESS)

WEST 40 FEET
LOT - 8, BLOCK - 74

VACANT LAND
NET AREA: +/- 9 000 SQ.FT.

EAST 100 FEET
LOT - 8, BLOCK - 74

MERIDIAN AVENUE (FIELD)
PINE AVENUE (PLAT)

70' TOTAL R/W

38.6' ASPHALT PAVEMENT

M.H.

M.H.

5TH STREET

TOTAL R/W VARIES
ASPHALT PAVEMENT

GRASS MEDIAN

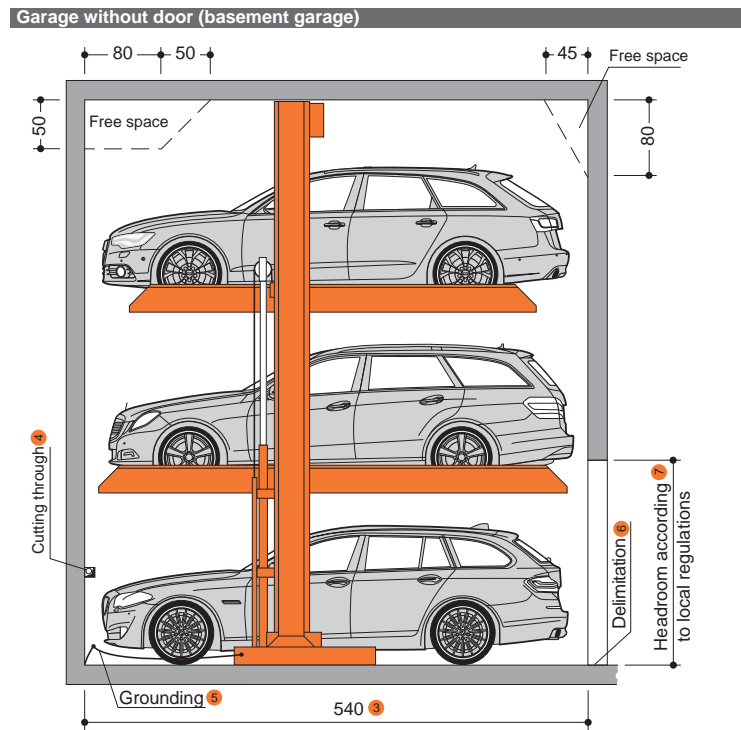
KLAUS
multiparking

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www.multiparking.com

PRODUCT DATA

singleup3015

2000 kg



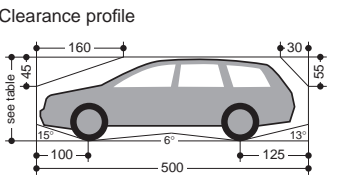
Dimensions

All space requirements are minimum finished dimensions.
Tolerances for space requirements ± 3 .
Dimensions in cm.
EB (single platform) = 2 vehicles

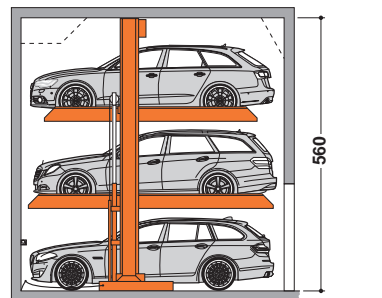
Suitable for

Standard passenger cars:
Limousine, station wagon, SUV, van
according to clearance and maximal
surface load.

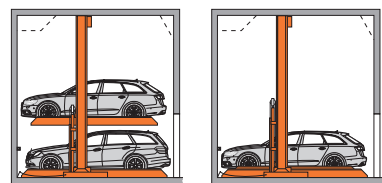
width	190 cm
weight	max. 2000 kg
wheel load	max. 500 kg



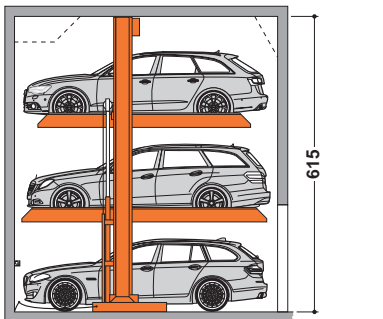
3015-560



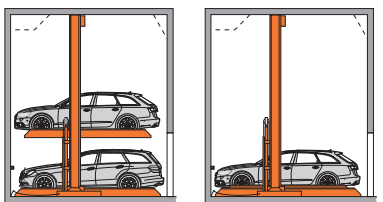
height	car height upper	car height middle	car height lower
560	160	160	180



3015-615

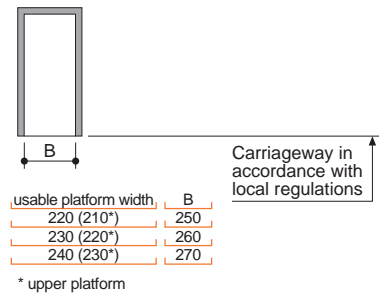


height	car height upper	car height middle	car height lower
615	180	180	180



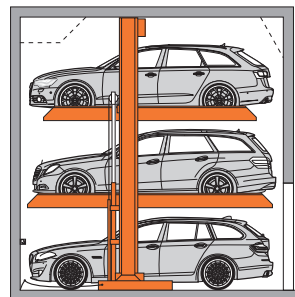
- 1 Standard type
- 2 To follow the minimum finished dimensions, make sure to consider the tolerances according to VOB, part C (DIN 18330 and 18331) and the DIN 18202.
- 3 If the total length is greater, the max. vehicle length for the lower parking space increases accordingly.
- 4 For dividing walls: cutting through 10 x 10 cm.
- 5 Potential equalization from foundation grounding connection to system (provided by the customer).
- 6 In compliance with DIN EN 14 010, 10 cm wide yellow-black markings compliant to ISO 3864 must be applied by the customer to the edge of the platform in the access area to mark the danger zone in front of the supporting surface of the upper platform edge (see „Load Plan“ Page 4).
- 7 Must be at least as high as the greatest car height + 5 cm.

Width dimensions for garage without door (basement garage)



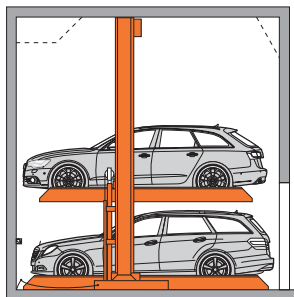
Function

System lifted



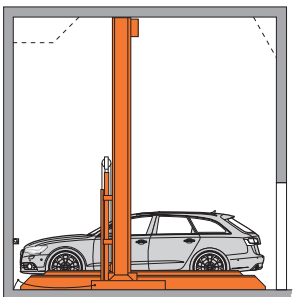
Before lowering the platforms, the vehicle parked in the lower parking space must be driven off!

System in middle position

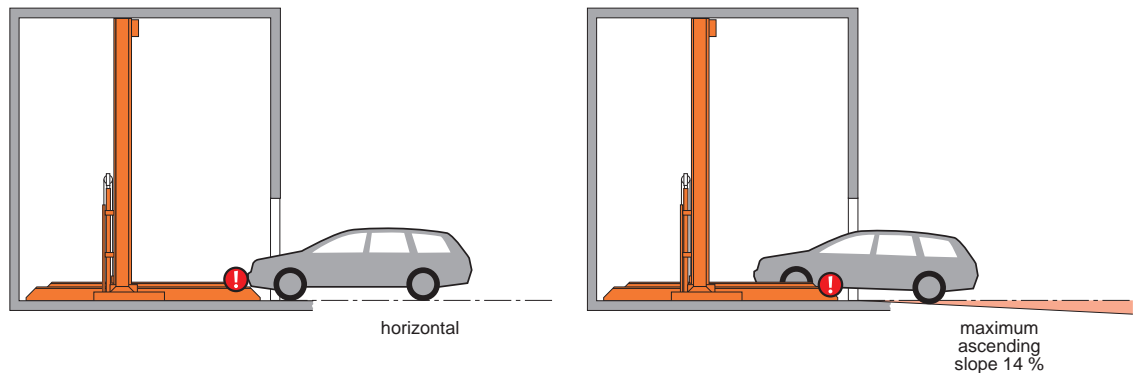


Before lowering the upper platform, the vehicle parked on the lower platform must also be driven off!

System lowered

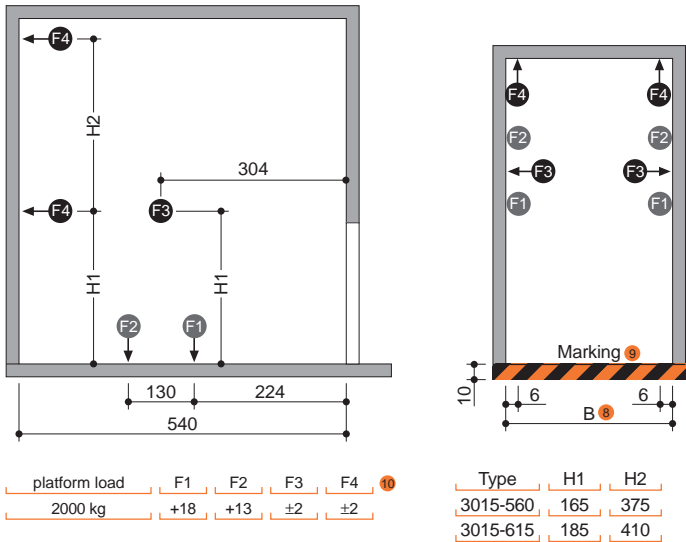


Approach



The illustrated maximum approach angles must not be exceeded. Incorrect approach angles will cause serious manoeuvring & positioning problems on the parking system for which the local agency of KLAUS Multiparking accepts no responsibility.

Load plan

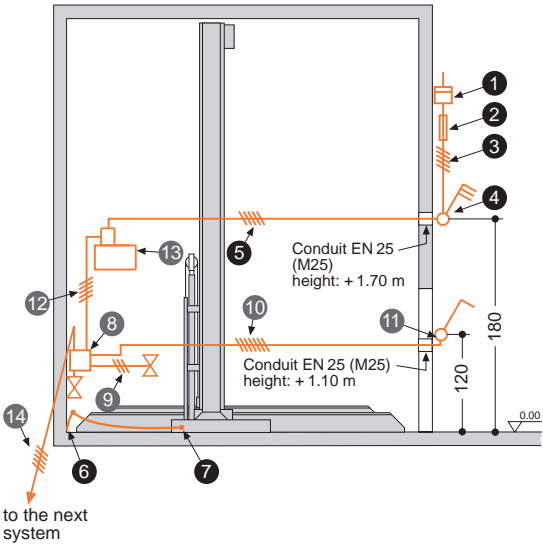


Units are dowelled to the floor. Drilling depth: approx. 15 cm.
Floor and walls are to be made of concrete (quality minimum C20/25)!
The dimensions for the points of support are rounded values. If the exact position is required, please contact KLAUS Multiparking.

- Dimension B see page 2
- Marking compliant to ISO 3864 (colors used in this illustration are not ISO 3864 compliant)
- All forces in kN

Electrical installation

Installation diagram



Electrical data (to be performed by the customer)

No.	Quantity	Description	Position	Frequency
1	1	Electricity meter	in the supply line	
2	1	Main fuse: 3 x fuse 16 A (slow) or circuit breaker 3 x 16 A (trigger characteristic K or C)	in the supply line	1 per unit
3	1	Supply line 5 x 2.5 mm ² (3 PH + N + PE) with marked wire and protective conductor	to main switch	1 per unit
4	1	Lockable main switch	defined at the plan evaluation	1 per unit
5	1	Supply line 5 x 2.5 mm ² (3 PH + N + PE) with marked wire and protective conductor	from main switch to unit	1 per unit
6	every 10 m	Foundation earth connector	corner pit floor	
7	1	Equipotential bonding in accordance with DIN EN 60204 from foundation earth connector to the system		1 per system

Electrical data (included in delivery of KLAUS Multiparking)

No.	Description
8	Terminal box
9	Control line 3 x 0.75 mm ² (PH + N + PE)
10	Control line 7 x 1.5 mm ² with marked wire and protective conductor
11	Operating device
12	Control line 5 x 1.5 mm ² with marked wire and protective conductor
13	Hydraulic unit 3.0 kW, three-phase current, 400 V / 50 Hz
14	Control line 5 x 1.5 mm ² with marked wire and protective conductor

Technical data

Field of application

By default, the system can only be used for a fixed number of users. If required for different users, would you please contact us.

Units

Low-noise power units mounted to rubber-bonded-to metal mountings are installed. Nevertheless we recommend that parking system's garage be built separately from the dwelling.

Available documents

- wall recess plans
- maintenance offer/contract
- declaration of conformity
- test sheet on airborne and slid-borne sound

Building application documents

According to LBO and GaVo (garage regulations) the Multiparking systems are subject to approval. We will provide the required building application documents.

Corrosion protection

See separate sheet regarding corrosion protection.

Care

To avoid damages resulting from corrosion, make sure to follow our cleaning and care instructions and to provide good ventilation of your garage.

Railings

If there are traffic routes next to or behind the installations, railings compliant to DIN EN ISO 13857 must be installed by the customer. Railings must also be in place during construction.

Environmental conditions

Environmental conditions for the area of multiparking systems: Temperature range -10 to +40° C. Relative humidity 50% at a maximum outside temperature of +40° C. If lifting or lowering times are specified, they refer to an environmental temperature of +10° C and with the system set up directly next to the hydraulic unit. At lower temperatures or with longer hydraulic lines, these times increase.

CE Certification

The systems offered correspond to DIN EN 14010 and the EC Machinery Directive 2006/42/EG.

Sound insulation

According to DIN 4109 (Sound insulation in buildings), para. 4, annotation 4, KLAUS Multiparkers are part of the building services (garage systems).

Normal sound insulation:

DIN 4109, para. 4, Sound insulation against noises from building services.

Table 4 in para. 4.1 contains the permissible sound level values emitted from building services for personal living and working areas. According to line 2 the maximum sound level in personal living andworking areas must not exceed 30 dB (A).
Noises created by users are not subject to the requirements (see table 4 , DIN 4109).

The following measures are to be taken to comply with this value:

- Sound protection package according to offer/order (KLAUS Multiparking GmbH)
- Minimum sound insulation of building $R'_w = 57$ dB (to be provided by customer)

Increased sound insulation (special agreement):

Draft DIN 4109-10, Information on planning and execution, proposals for increased sound insulation.

Agreement: Maximum sound level in personal living and working areas 25 dB (A). *Noises created by users are not subject to the requirements (see table 4, DIN 4109).*

The following measures are to be taken to comply with this value:

- Sound protection package according to offer/order (KLAUS Multiparking GmbH)
- Minimum sound insulation of building $R'_w = 62$ dB (to be provided by customer)

Note: User noises are noises created by individual users in our Multiparking systems. These can be noises from accessing the platforms, slamming of vehicle doors, motor and brake noises.

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Dimensions
Car data

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Width dim.
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Page 3
Load plan

Seite 4
Electrical
installation
Technical
data

Page 5
To be per-
formed by the
customer
Description

To be performed by the customer

Safety fences

Any constraints that may be necessary according to DIN EN ISO 13857 in order to provide protection, for pathways directly in front, next to or behind the unit. This is also valid during construction.

Numbering of parking spaces

Consecutive numbering of parking spaces.

Building services

Any required lighting, ventilation, fire extinguishing and fire alarm systems as well as clarification and compliance with the relevant regulatory requirements.

Marking

According to DIN EN 14 010, a warning that identifies this danger area must be placed in the entrance area that conforms to ISO 3864. This must be done according to EN 92/58/EWG for systems without a pit 10 cm from the edge of the platform.

Wall cuttings

Any necessary wall cuttings according to page 1.

Electrical supply to the main switch / Foundation earth connector

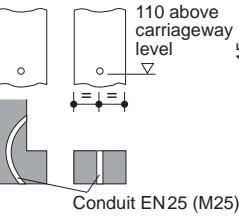
Suitable electrical supply to the main switch and the control wire line must be provided by the customer during installation. The functionality can be monitored on site by our fitters together with the electrician. If this cannot be done during installation for some reason for which the customer is responsible, the customer must commission an electrician at their own expense and risk.

In accordance with DIN EN 60204 (Safety of Machinery. Electrical Equipment), grounding of the steel structure is necessary, provided by the customer (distance between grounding max. 10 m).

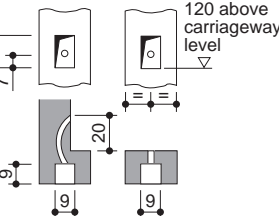
Operating device

Cable conduits and recesses for operating device (for double wing doors: please contact the local agency of KLAUS Multiparking).

Operating device exposed



Operating device concealed



If the following are not included in the quotation, they will also have to be provided / paid for by the customer:

- Mounting of contactor and terminal box to the wall valve, complete wiring of all elements in accordance with the circuit diagram
- Costs for final technical approval by an authorized body
- Main switch
- Control line from main switch to hydraulic unit

Description Single platform (EB)

General description

Multiparking system providing dependent parking spaces for 3 cars one on top of the other each. The lower vehicle parks directly on the floor plate. The vehicle parked on the bottom must be driven out before lowering the platform.

Dimensions are in accordance with the underlying dimensions of height and width

The parking bays are accessed horinzotally (installation deviation $\pm 1\%$).

The user is responsible for positioning the vehicle.

Operation via operating device with hold-to-run-device using master keys.

The operating elements are usually mounted either in front of the column or on the outside of the door frame

Operating instructions are attached to each operator's stand.

For garages with doors at the front of the parking system the special dimensional requirements have to be taken into account.

Multiparking system consisting of:

- 2 steel pillars with base plates (mounted on the floor)
- 2 sliding platforms (mounted to the steel pillars with sliding bearings)
- 2 platforms
- 1 mechanic synchronization control system (to ensure synchronous operation of the hydraulic cylinders while lowering and lifting the platform)
- 2 hydraulic cylinder
- 1 automatic mechanical locking systeme (prevents accidental lowering of the platforms)
- Dowels, screws, connecting elements, bolts, etc.
- The platforms and parking spaces are end-to-end accessible for parking!

Platforms consisting of:

- Platform base sections
- Canted access plates
- Side members
- Cross members
- Screws, nuts, washers, distance tubes, etc..

Hydraulic system consisting of:

- Hydraulic cylinder
- Solenoid valve
- Hydraulic conduits
- Screwed joints
- High-pressure hoses
- Installation material

Electric system consisting of:

- Operating device (Emergency Stop, lock, 1 master key per parking space)
- Terminal box at wall valve

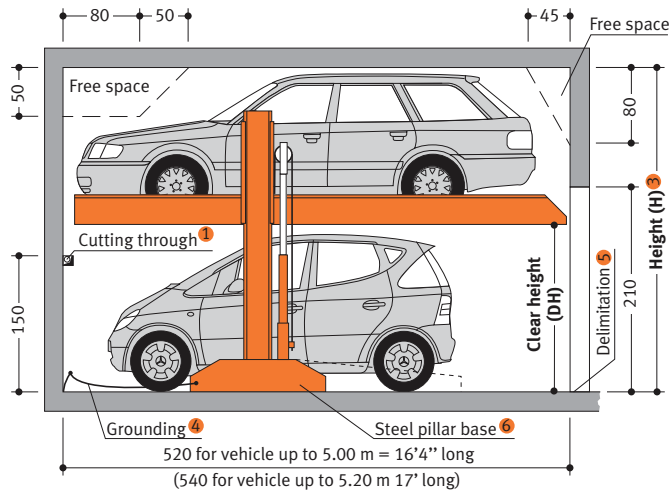
Hydraulic unit consisting of:

- Hydraulic power unit (low-noise, installed onto a console with a rubber-bonded-to-metal mounting)
- Hydraulic oil reservoir
- Oil filling
- Internal geared wheel pump
- Pump holder
- Clutch
- 3-phase-AC-motor
- Contactor (with thermal overcurrent relay and control fuse)
- Test manometer
- Pressure relief valve
- Hydraulic hoses (which reduce noise transmission onto the hydraulic pipe)

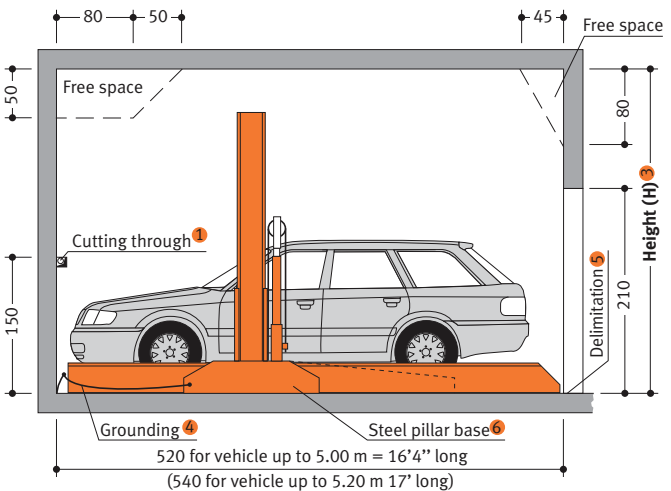
We reserve the right to change this specification without further notice

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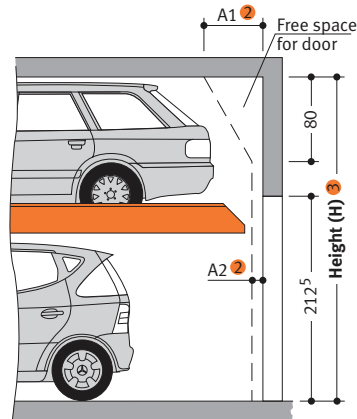
SingleVario 2061



Before lowering the platform, the vehicle parked in the lower parking space must be driven off!



Garage with door in front of the car parking system



Notes

- For dividing walls: cutting through 10 x 10 cm (for pipes).
- Dimensions A1, A2 and A3 must be coordinated with the door supplier.
- If the total height is greater, the max. vehicle height for the upper parking space increases accordingly.
- Potential equalization from foundation grounding connection to system (provided by the customer).
- In compliance with DIN EN 14 010, 10 cm wide yellow-black markings compliant to ISO 3864 must be applied by the customer to the edge of the platform in the access area to mark the danger zone in front of the supporting surface of the upper platform edge (see »Load Plan«, Page 3)
- Variable steel pillar bases in two sizes (see »Load Plan«, Page 3).
- Maximum load of 2,500 kg for extra charge.

Product Data SingleVario 2061



Loadable
up to 2,500 kg
A system for
any height
subsequently adjustable!

Dimensions:

All space requirements are minimum finished dimensions. Tolerances for space requirements ± 3 . Dimensions in cm.
EB (single platform) = 2 vehicles

Type	H	DH**
2061-160	320	160
2061-170*	330	170
2061-180	340	180
2061-190	350	190
2061-200	360	200
2061-210	370	210

* = standard type ** = without car

Suitable for:

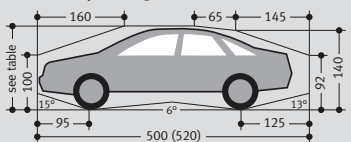
Standard passenger car, station wagon/Van/SUV. Height and length according to contour.

Type	H	upper	lower
2061-160	320	150	150
2061-170*	330	150	160
2061-180	340	150	170
2061-190	350	150	180
2061-200	360	150	190
2061-210	370	150	200

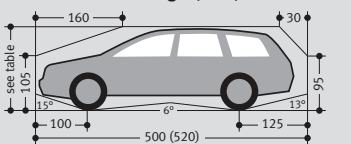
* = standard type

width	190 cm
weight	max. 2000/2500 kg
wheel load	max. 500/625 kg

Standard passenger car



Standard station wagon/Van/SUV



Standard passenger cars are vehicles without any sports options such as spoilers, low-profile tyres etc.

KLAUS
multiparking

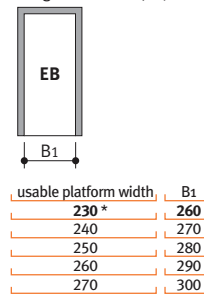
Klaus Multiparking GmbH
Hermann-Krum-Straße 2
D-88319 Aitrach

Phone +49-75 65-5 08-0
Fax +49-75 65-5 08-88
E-Mail info@multiparking.com
Internet www.multiparking.com

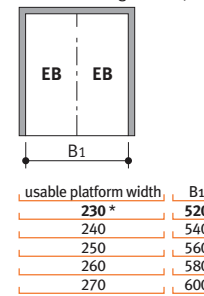
Width for basement garage

Dividing walls

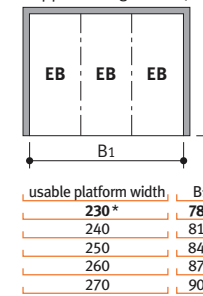
Single Platform (EB)



Double arrangement (2 x EB)



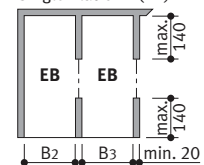
Tripple arrangement (3 x EB)



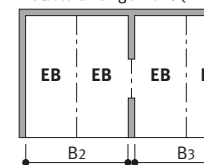
Carriageway in accordance with local regulations

Columns in system zone

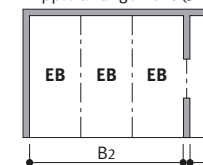
Single Platform (EB)



Double arrangement (2 x EB)



Tripple arrangement (3 x EB)



Carriageway in accordance with local regulations

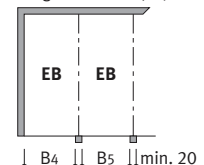
usable platform width	B2	B3
230*	255	250
240	265	260
250	275	270
260	285	280
270	295	290

usable platform width	B2	B3
230*	515	510
240	535	530
250	555	550
260	575	570
270	595	590

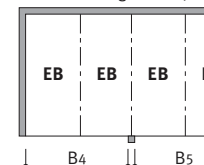
usable platform width	B2	B3
230*	775	770
240	805	800
250	835	830
260	865	860
270	895	890

Columns outside of system zone

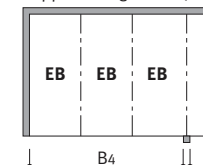
Single Platform (EB)



Double arrangement (2 x EB)



Tripple arrangement (3 x EB)



Carriageway in accordance with local regulations

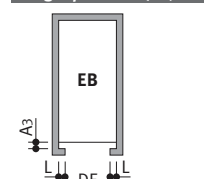
usable platform width	B4	B5
230*	250	240
240	260	250
250	270	260
260	280	270
270	290	280

usable platform width	B4	B5
230*	510	500
240	530	520
250	550	540
260	570	560
270	590	580

usable platform width	B4	B5
230*	770	760
240	800	790
250	830	820
260	860	840
270	890	860

Widths for garage with door in front of car parking system

Single platform (EB)

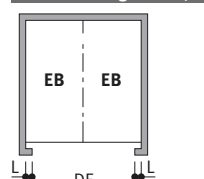


A3 = seat-engaging surface (dimensions require coordination with door supplier.)

Allround door dimensions require coordination between door supplier and local agency of Klaus Multiparking.

usable platform width	door entrance width DF	L	S
230*	237 ⁵	12 ⁵	25
240	250	12 ⁵	25
250	250	15	30
260	260	15	30
270	270	15	30

Double arrangement (2 x EB)



usable platform width	door entrance width DF	L	S
230*	475	22 ⁵	45
240	500	20	40
250	520	20	40
260	540	20	40
270	560	20	40

Carriageway in accordance with local regulations

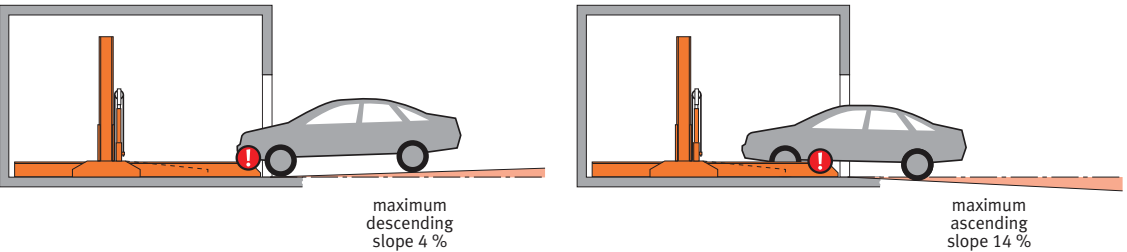
* = standard width (parking space width 2.30 m)

● = no standard width for doors!

Please note:

End parking spaces are generally more difficult to drive into. Therefore we recommended for end parking spaces our wider platforms. Parking on standard width platforms with larger vehicles may make getting into and out of the vehicle difficult. This depends on type of vehicle, approach and above all on the individual driver's skill.

Approach

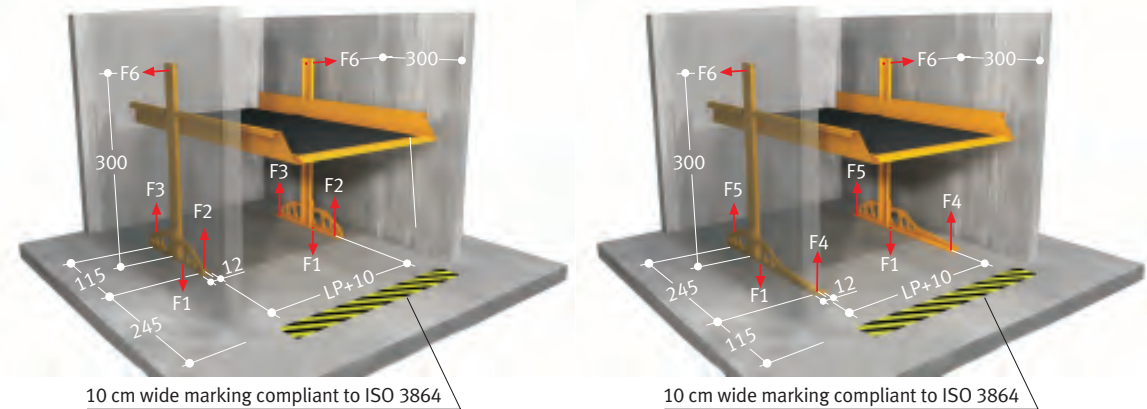


! The illustrated maximum approach angles must not be exceeded. Incorrect approach angles will cause serious manoeuvring & positioning problems on the parking system for which the local agency of Klaus accepts no responsibility.

Load plan

Option 1: short steel pillar base

Option 2: long steel pillar base



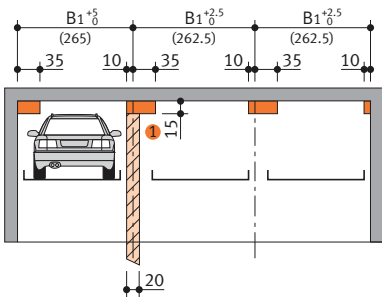
platform load	F1	F2	F3	F4	F5	F6
2,000 kg	30	1.1	7.4	0.5	7.7	±1
2,500 kg	35	1.3	8.9	0.6	9.3	±1

Forces in kN

! The steel pillar base can be selected optionally (short or long). Please make sure to note the corresponding forces that apply! Units are dowelled to the floor. Drilling depth: approx. 15 cm. Floor and walls are to be made of concrete (quality minimum C20/25)!

Installation data

Free space for longitudinal and vertical ducts (e.g. ventilation)

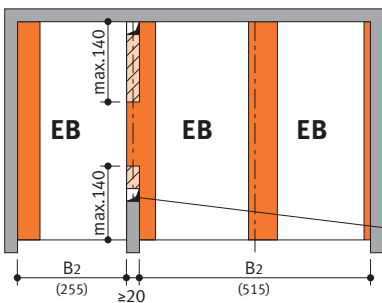


B1, B2 = (see table on page 2)

Free space for vertical pipelines, ventilation branch canals

Free space for horizontal ducting

Approach level



! Size 15 cm is reduced to 5 cm for type 2061-160

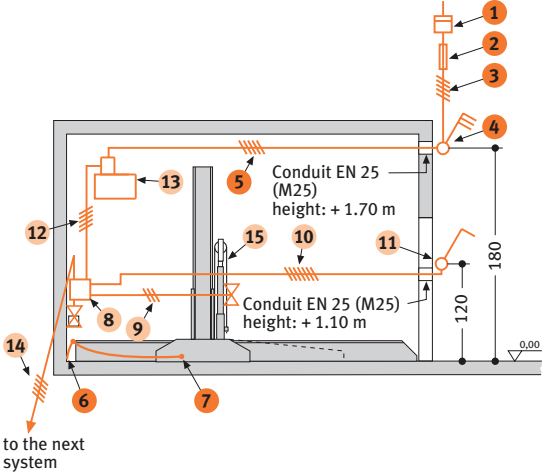
Free space only applicable if vehicle is parked forwards = FRONT FIRST and driver's door on the left side.

() = Dimensions in brackets illustrate an example for usable platform width 230 cm.

Example for ventilation branch canal and/or vertical pipelines.

Electrical installation

Installation diagram



Electrical data (to be performed by the customer)

No.	Quantity	Description	Position	Frequency
1	1	Electricity meter	in the supply line	
2	1	Main fuse: 3 x fuse 16 A (slow) or circuit breaker 3 x 16 A (trigger characteristic K or C)	in the supply line	1 per unit
3	1	Supply line 5 x 2.5 mm² (3 PH + N + PE) with marked wire and protective conductor	to main switch	1 per unit
4	1	Lockable main switch	defined at the plan evaluation	1 per unit
5	1	Supply line 5 x 2.5 mm² (3 PH + N + PE) with marked wire and protective conductor	from main switch to unit	1 per unit
6	every 10 m	Foundation earth connector	corner pit floor	
7	1	Equipotential bonding in accordance with DIN EN 60204 from foundation earth connector to the system		1 per system

Electrical data (included in delivery of Klaus Multiparking)

No.	Description
8	Terminal box
9	Control line 3 x 0.75 mm² (PH + N + PE)
10	Control line 7 x 1.5 mm² with marked wire and protective conductor
11	Operating device
12	Control line 5 x 1.5 mm² with marked wire and protective conductor
13	Hydraulic unit 3.0 kW, three-phase current, 400 V / 50 Hz
14	Control line 5 x 1.5 mm² with marked wire and protective conductor
15	Chain control

Technical data

Range of application

Generally, this parking system is not suited for short-time parkers (temporary parkers). Please do not hesitate to contact your local KLAUS agency for further assistance.

Units

Low-noise power units mounted to rubber-bonded-to metal mountings are installed. Nevertheless we recommend that parking system's garage be built separately from the dwelling.

Available documents

- wall recess plans
- maintenance offer/contract
- declaration of conformity
- test sheet on airborne and slid-borne sound

Corrosion protection

See separate sheet regarding corrosion protection.

Railings

If there are traffic routes next to or behind the installations, railings compliant to DIN EN ISO 13857 must be installed by the customer. Railings must also be in place during construction.

Environmental conditions

Environmental conditions for the area of multiparking systems: Temperature range -10 to +40° C. Relative humidity 50 % at a maximum outside temperature of +40° C. If lifting or lowering times are specified, they refer to an environmental temperature of +10° C and with the system set up directly next to the hydraulic unit. At lower temperatures or with longer hydraulic lines, these times increase.

Sound insulation

According to DIN 4109 (Sound insulation in buildings), para. 4, annotation 4, Klaus Multiparkers are part of the building services (garage systems).

Normal sound insulation:

DIN 4109, para. 4, Sound insulation against noises from building services.

Table 4 in para. 4.1 contains the permissible sound level values emitted from building services for personal living and working areas. According to line 2 the maximum sound level in personal living and working areas must not exceed 30 dB (A). Noises created by users are not subject to the requirements (see table 4, DIN 4109).

The following measures are to be taken to comply with this value:

- Sound protection package according to offer/order (Klaus Multiparking GmbH)
- Minimum sound insulation of building R'w = 57 dB (to be provided by customer)

Increased sound insulation (special agreement):

DIN 4109, Amendment 2, Information on planning and execution, proposals for increased sound insulation.

Agreement: Maximum sound level in personal living and working areas 25 dB (A). Noises created by users are not subject to the requirements (see table 4, DIN 4109).

The following measures are to be taken to comply with this value:

- Sound protection package according to offer/order (Klaus Multiparking GmbH)
- Minimum sound insulation of building R'w = 62 dB (to be provided by customer)

Note: User noises are noises created by individual users in our Multiparking systems. These can be noises from accessing the platforms, slamming of vehicle doors, motor and brake noises.

Page 1
Section
Dimensions
Car data
Page 2
Width
dimeions
Page 3
Approach
Load plan
Installation
Page 4
Electrical
installation
Technical
data
Page 5
To be perfor-
med by the
customer
Description

To be performed by the customer

Safety fences

Any constraints that may be necessary according to DIN EN ISO 13857 in order to provide protection, for pathways directly in front, next to or behind the unit. This is also valid during construction.

Numbering of parking spaces

Consecutive numbering of parking spaces.

Building services

Lighting, ventilation, fire extinguishing and fire alarm systems.

Marking

According to DIN EN 14 010, a warning that identifies this danger area must be placed in the entrance area that conforms to ISO 3864. This must be done according to EN 92/58/EWG for systems without a pit 10 cm from the edge of the platform.

Wall cuttings

Any necessary wall cuttings according to page 1.

Electrical supply to the main switch / Foundation earth connector

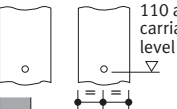
Suitable electrical supply to the main switch and the control wire line must be provided by the customer during installation. The functionality can be monitored on site by our fitters together with the electrician. If this cannot be done during installation for some reason for which the customer is responsible, the customer must commission an electrician at their own expense and risk.

In accordance with DIN EN 60204 (Safety of Machinery. Electrical Equipment), grounding of the steel structure is necessary, provided by the customer (distance between grounding max. 10 m).

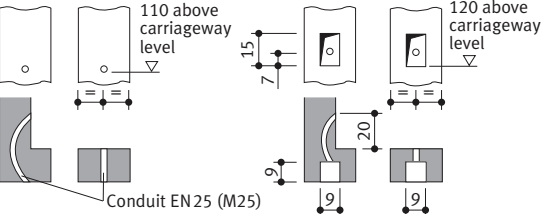
Operating device

Cable conduits and recesses for operating device (for double wing doors: please contact the local agency of Klaus Multiparking).

Operating device exposed



Operating device concealed



If the following are not included in the quotation, they will also have to be provided / paid for by the customer:

- Mounting of contactor and terminal box to the wall valve, complete wiring of all elements in accordance with the circuit diagram
- Costs for final technical approval by an authorized body
- Main switch
- Control line from main switch to hydraulic unit

Description

General description

Multiparking system providing dependent parking spaces for 2 cars one on top of the other each. The lower vehicle parks directly on the floor plate. The vehicle parked on the bottom must be driven out before lowering the platform.

The height of the platform can be adjusted flexibly (even subsequently).

Adjustment of maximum load of 2,500 kg can be made subsequently.

Dimensions are in accordance with the underlying dimensions of parking pit, height and width

The parking bays are accessed horinzotally (installation deviation ± 1 %).

Vehicles are positioned on the upper parking space using wheel stops on the right side (adjust according to operating instructions).

Operation via operating device with hold-to-run-device using master keys.

The operating elements are usually mounted either in front of the column or on the outside of the door frame

Operating instructions are attached to each operator's stand.

For garages with doors at the front of the parking system the special dimensional requirements have to be taken into account.

Multiparking system consisting of:

- 2 steel pillars with bases that are mounted on the floor (short or long steel pillar bases can be selected optionally).
- 2 sliding platforms (mounted to the steel pillars with sliding bearings)
- 1 platform
- 1 mechanic synchronization control system (to ensure synchronous operation of the hydraulic cylinders while lowering and lifting the platform)
- 1 hydraulic cylinder
- 1 automatic hydraulic safety valve (prevents accidental lowering of the platform while accessing the platform)
- Dowels, screws, connecting elements, bolts, etc.
- The platforms and parking spaces are end-to-end accessible for parking!

Platforms consisting of:

- Platform base sections
- Adjustable wheel stops
- Canted access plates
- Side members
- Cross members
- Screws, nuts, washers, distance tubes, etc.

Hydraulic system consisting of:

- Hydraulic cylinder
- Solenoid valve
- Safety valve
- Hydraulic conduits
- Screwed joints
- High-pressure hoses
- Installation material

Electric system consisting of:

- Operating device (Emergency Stop, lock, 1 master key per parking space)
- Terminal box at wall valve
- Electrical locking device
- Chain control

Hydraulic unit consisting of:

- Hydraulic power unit (low-noise, installed onto a console with a rubber-bonded-to-metal mounting)
- Hydraulic oil reservoir
- Oil filling
- Internal geared wheel pump
- Pump holder
- Clutch
- 3-phase-AC-motor (3.0 kW, 230/400 V, 50 Hz)
- Contactor (with thermal overcurrent relay and control fuse)
- Test manometer
- Pressure relief valve
- Hydraulic hoses (which reduce noise transmission onto the hydraulic pipe)

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