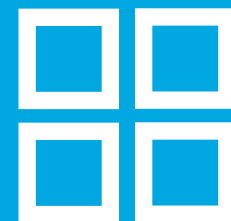


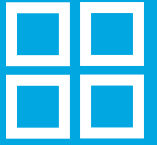


PUZZLE



SPECIFICATION SHEET

PUZZLE



33 SECONDS

AVERAGE RETRIEVAL TIME

UP TO 7 LEVELS

2 - 7 LEVEL CONFIGURATIONS

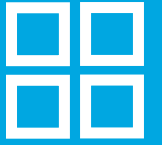
40,000

SPACES INSTALLED

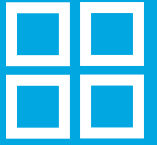
Our most popular and versatile mechanical parking solution is the Puzzle. It comes in 2, 3, 4, 5, 6, and 7-level configurations; with or without pits and is ideal for new construction or retrofits. This mechanical parking lift also works in a tandem configuration without impacting retrieval time. They are widely used in residential, mixed use, and public garages in impacted urban areas. Replacing traditional stackers with the Puzzle can drastically reduce valet costs since each space is independently accessed. The Puzzle can be used indoors or outdoors and requires a minimum clear height of 11' 7 3/4" beginning with the 2 level system.



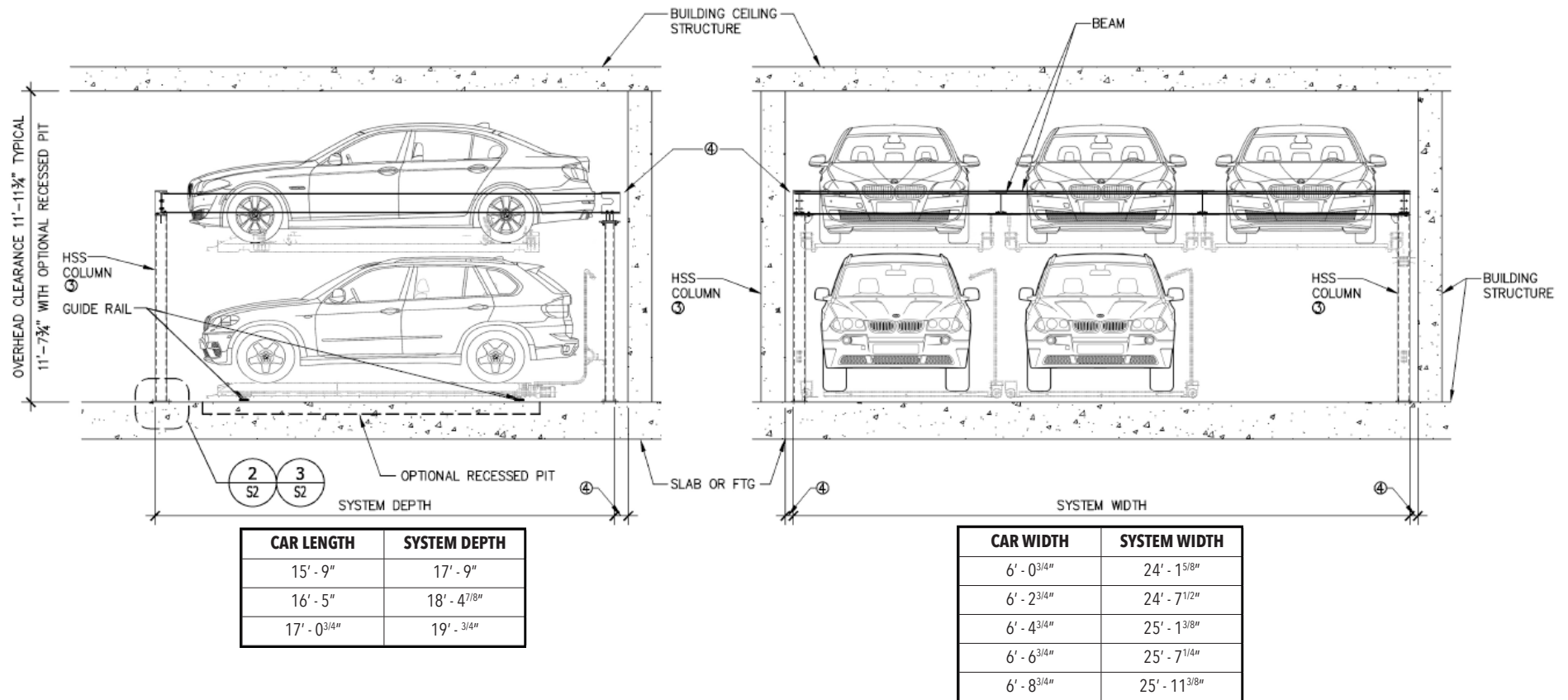
PUZZLE



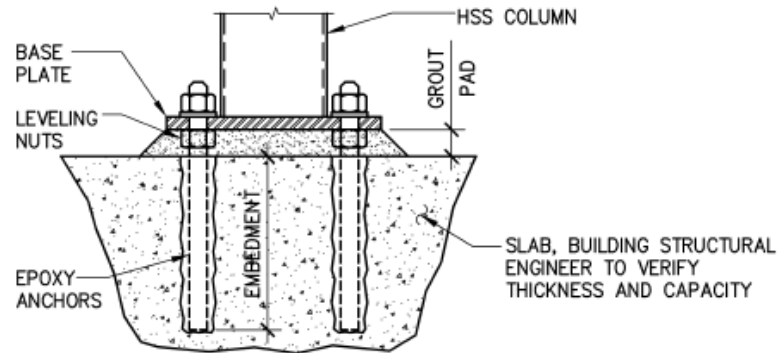
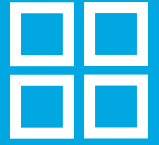
TWO LEVEL PUZZLE



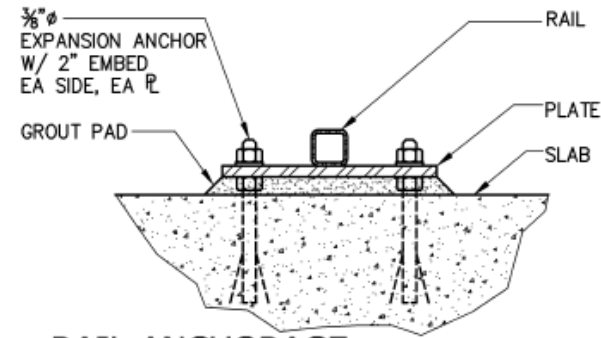
MODEL NO 2LP



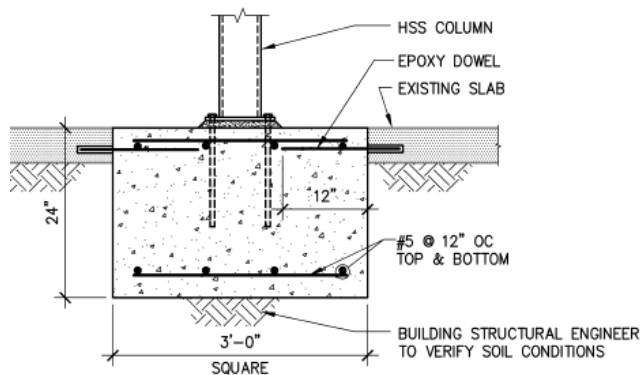
TWO LEVEL PUZZLE



BASE PLATE SECTION AT SLAB



RAIL ANCHORAGE

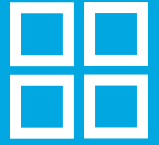


FOOTING OPTION

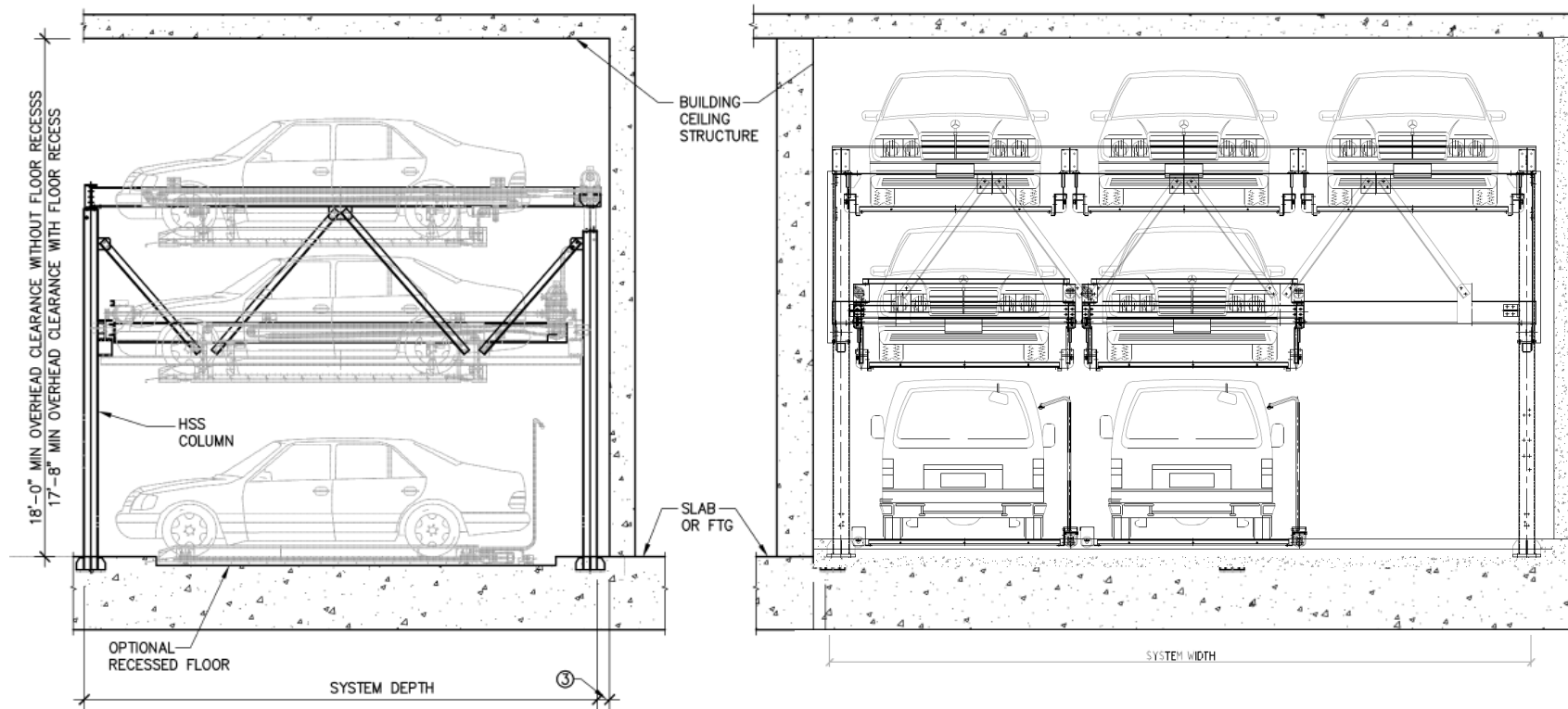
NOTES:

- Depth depends on the concrete strength specified
- Typical base plate dimensions are 12"x12" design may vary based on design
- 5/8" thick plate with 1/4" HSS design may vary based on actual design

THREE LEVEL PUZZLE



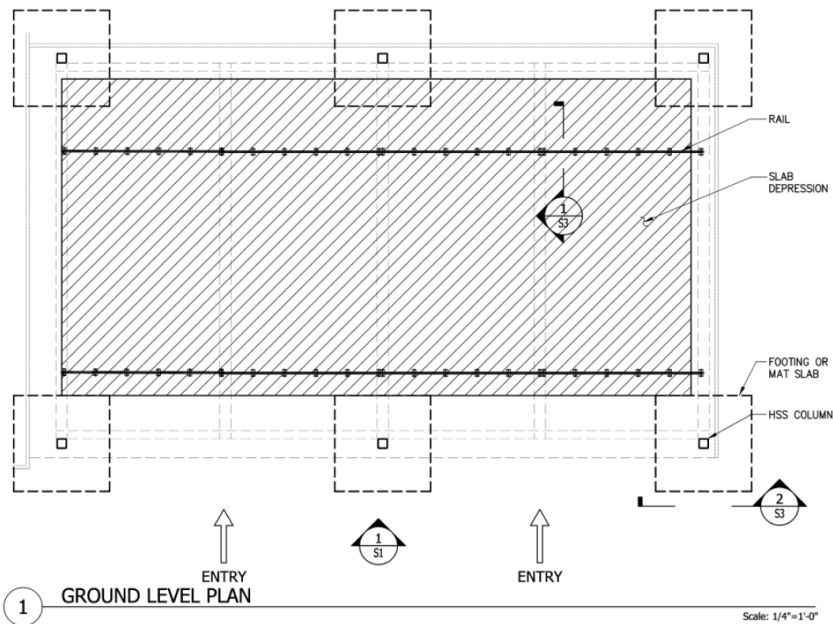
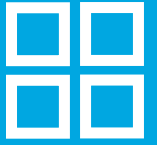
MODEL NO 3LP



CAR LENGTH	SYSTEM DEPTH
15' - 9"	17' - 9"
16' - 5"	18' - 4 ⁷ / ₈ "
17' - 0 ³ / ₄ "	19' - 3 ¹ / ₄ "

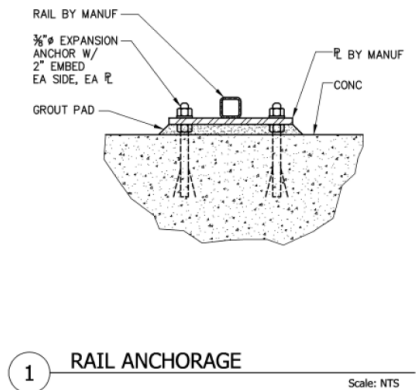
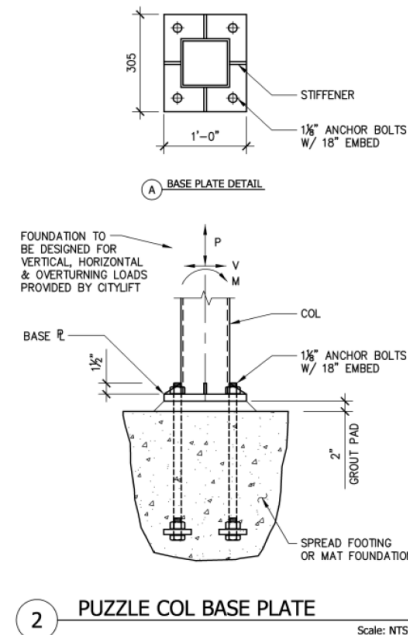
CAR WIDTH	SYSTEM WIDTH
6' - 0 ³ / ₄ "	24' - 1 ⁵ / ₈ "
6' - 2 ³ / ₄ "	24' - 7 ¹ / ₂ "
6' - 4 ³ / ₄ "	25' - 1 ³ / ₈ "
6' - 6 ³ / ₄ "	25' - 7 ¹ / ₄ "
6' - 8 ³ / ₄ "	25' - 11 ³ / ₈ "

THREE LEVEL PUZZLE

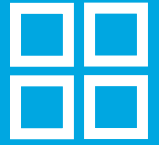


NOTES:

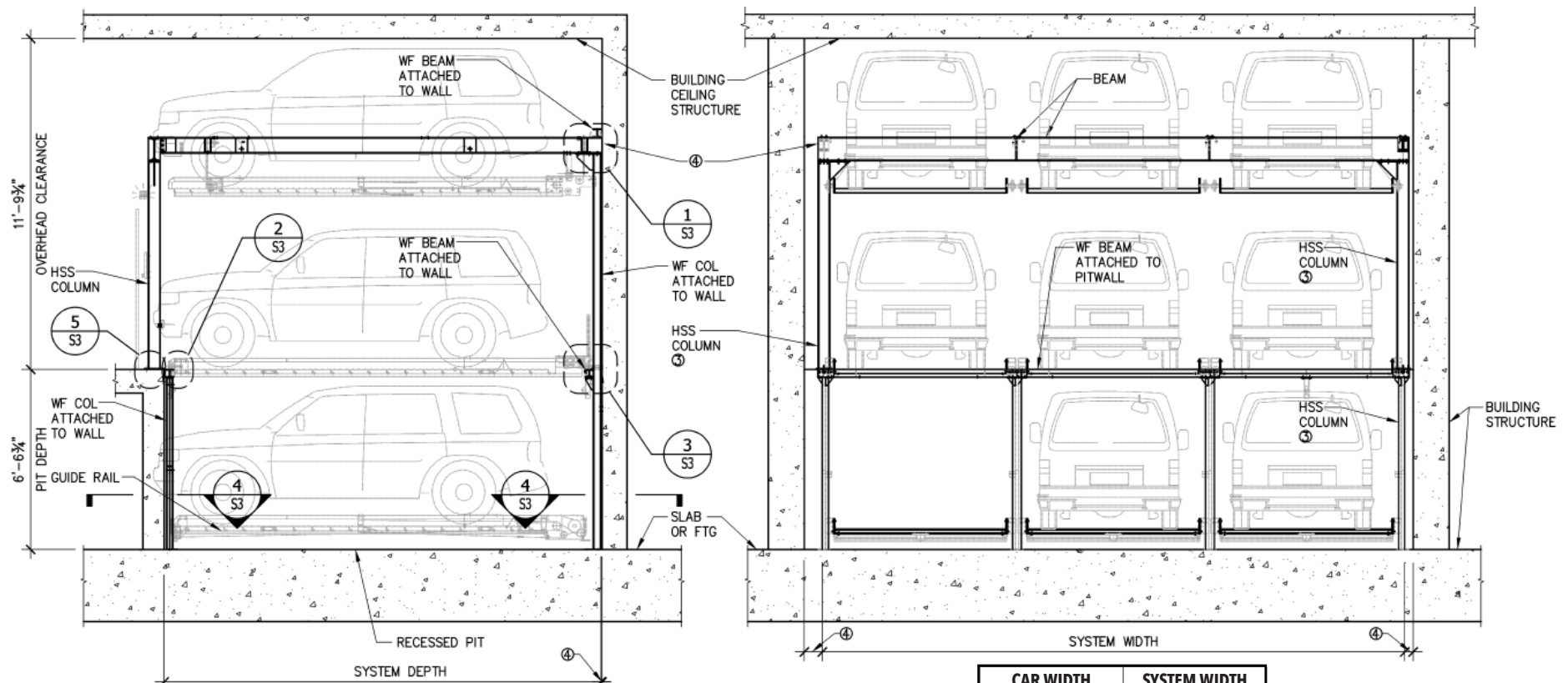
- Dimensions will vary depending on size of platform and design of structure
- See next page for schedule



THREE LEVEL PUZZLE W/PIT



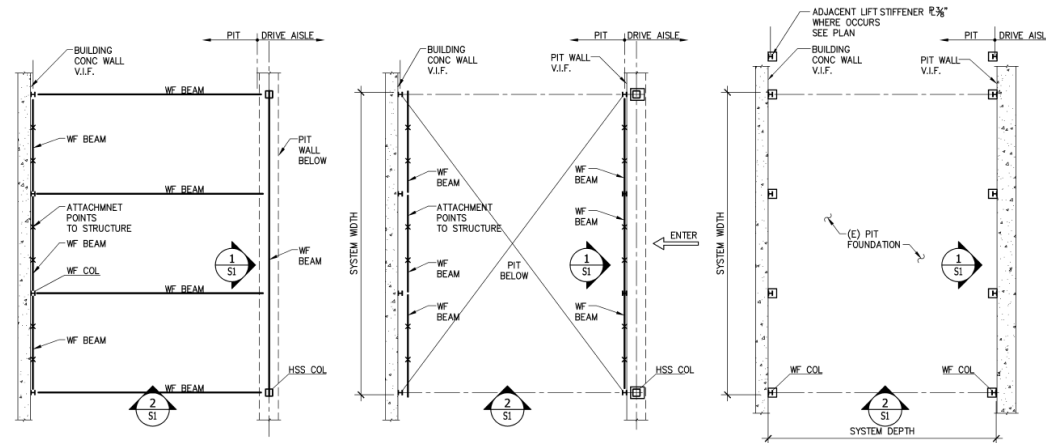
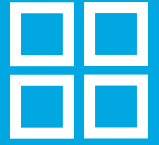
MODEL NO 3LPWP



CAR LENGTH	SYSTEM DEPTH
15' - 9"	17' - 9"
16' - 5"	18' - 4 7/8"
17' - 0 3/4"	19' - 3/4"

CAR WIDTH	SYSTEM WIDTH
6' - 0 3/4"	24' - 1 5/8"
6' - 2 3/4"	24' - 7 1/2"
6' - 4 3/4"	25' - 1 3/8"
6' - 6 3/4"	25' - 7 1/4"
6' - 8 3/4"	25' - 11 3/8"

THREE LEVEL PUZZLE W/PIT



3 UPPER LEVEL PLAN

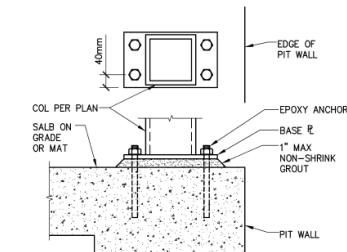
Scale: NTS

2 MID/ENTRY LEVEL PLAN

Scale: NTS

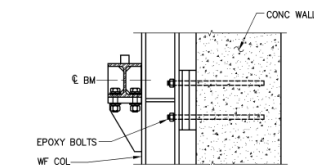
1 PIT LEVEL PLAN

Scale: NTS



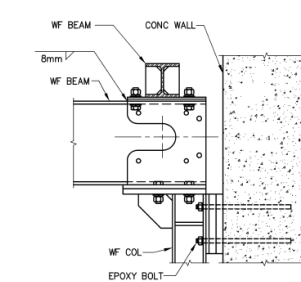
5 HSS COLUMN-ANCHOR PIT WALL

Scale: NTS



3 DETAIL

Scale: NTS

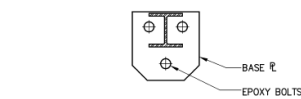


1 DETAIL

Scale: NTS

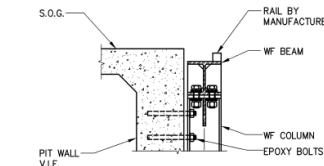
NOTES:

- Rod inbedment and size varies on structural wall design



4 DETAIL

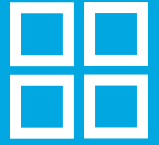
Scale: NTS



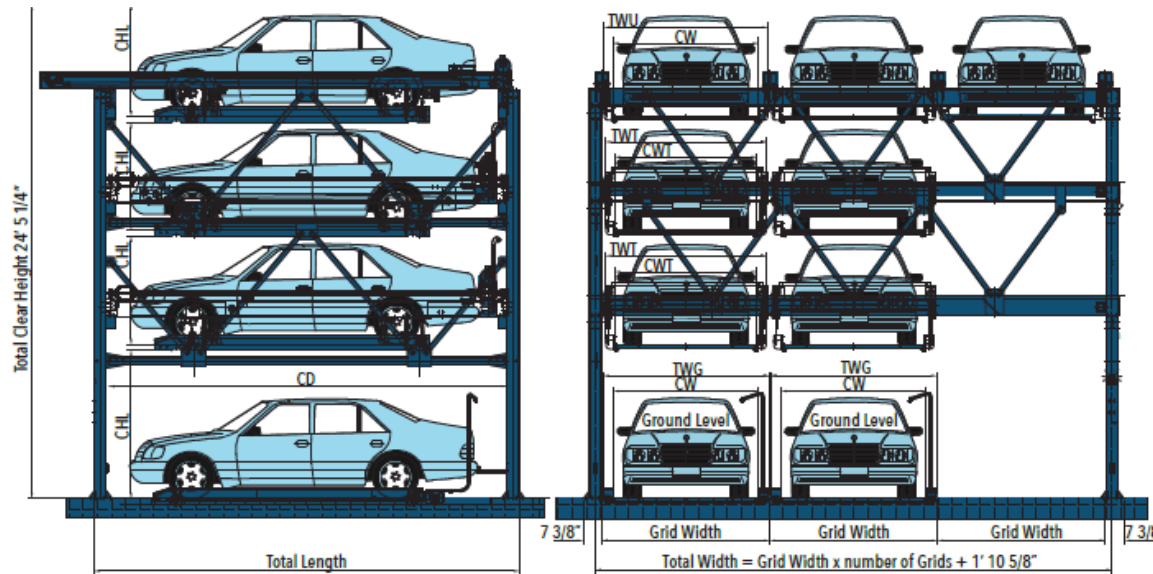
2 DETAIL

Scale: NTS

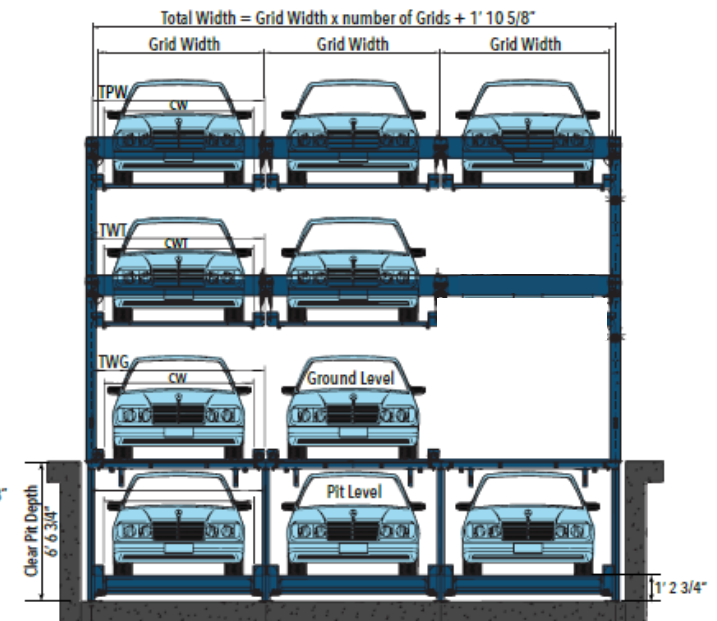
FOUR LEVEL PUZZLE



MODEL NO 4LP / 4LPWP

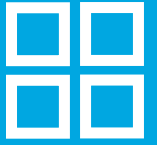


FOUR LEVEL PUZZLE ABOVE GROUND

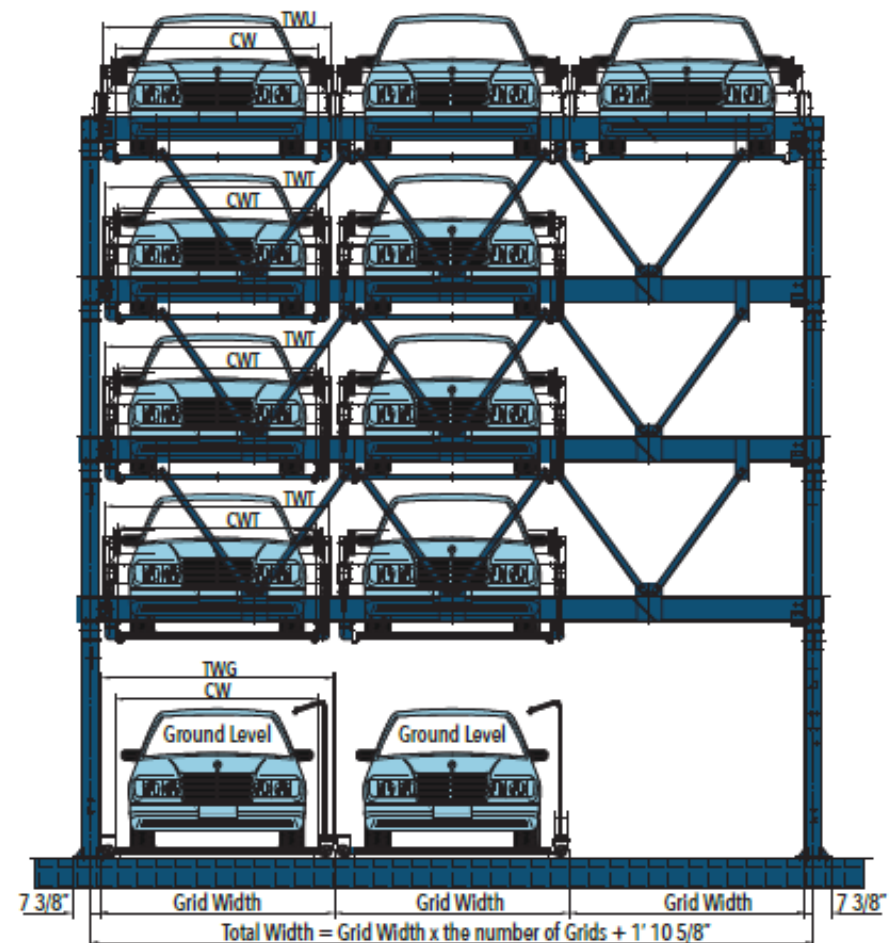
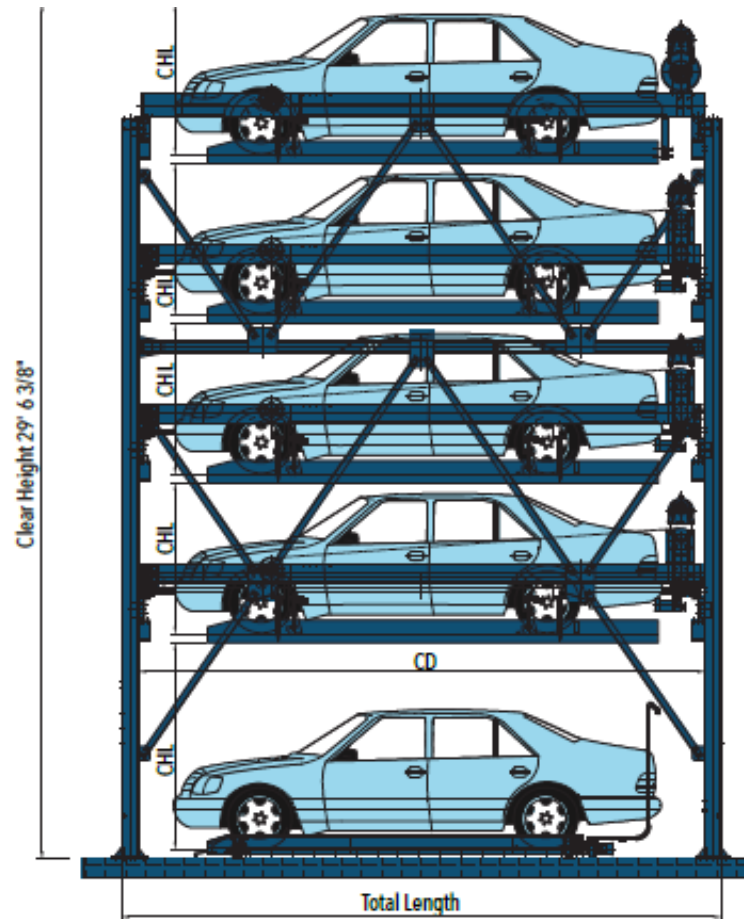


FOUR LEVEL PUZZLE WITH PIT

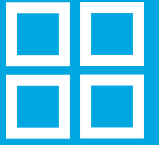
FIVE LEVEL PUZZLE



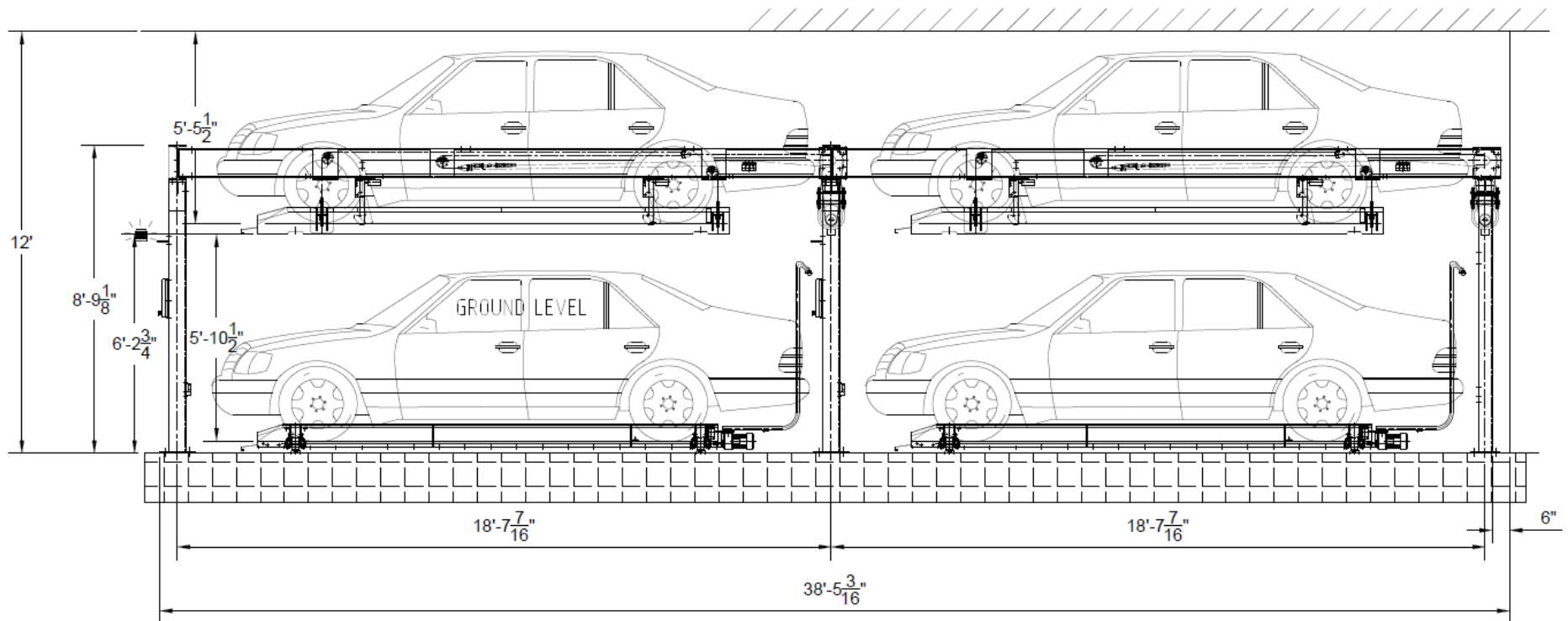
MODEL NO 5LP



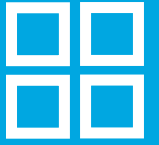
TWO-ROW (TANDEM)



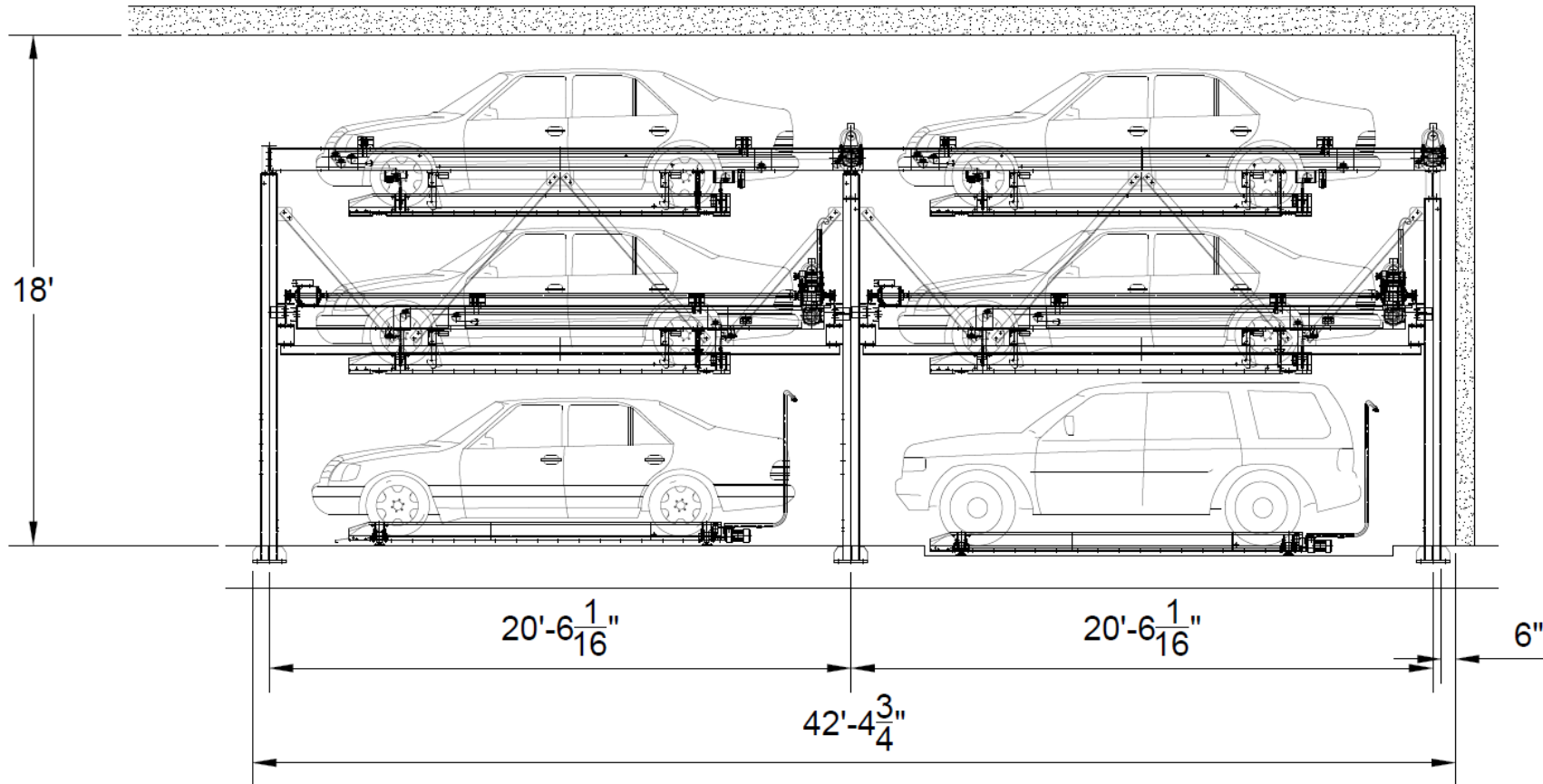
MODEL NO 2LPNPT



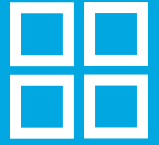
TWO-ROW (TANDEM)



MODEL NO 3LPNPT



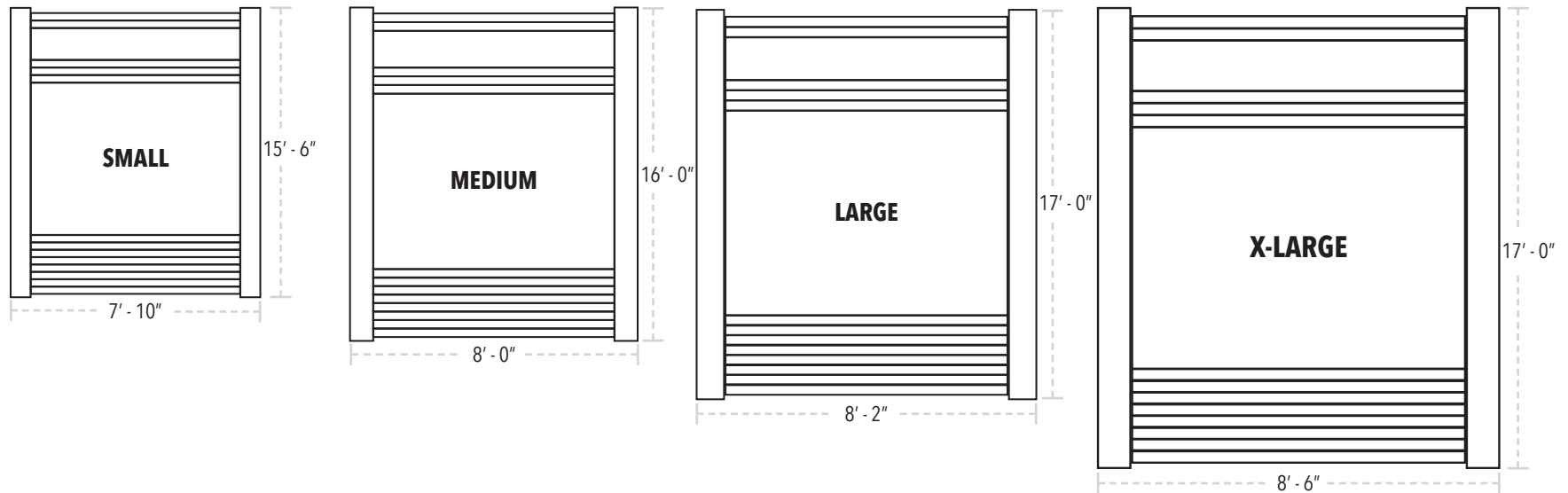
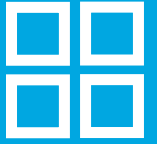
TECHNICAL SPECS



Average Retrieval Time	33 Seconds
Maximum Vehicle Weight	40lbs per SF, per level. 5,200 pounds
Electrical Requirement	480 3-Phase or 208 3-Phase
Lifting Motor	Two options: 4.0kW-4P or 2.2 kW-4P
Traverse Motor	0.37 kW-4P
Control Method	PLC control
Circuit Breaker	ABB S204-C40
Operation Method	Button type or touch panel control
Emergency Stop Switch	XB2-BS542C
Optoelectronic Switch	LA31/K31/25/31/115
Remote Monitoring	Primitive Logic / AMI
Drive System/Motor	SEW-Germany
PLC/Sensor	Rockwell
Applicable Code	CA Building Code, 2016 edition
Seismic Loads	Ch.15 ASCE 7-10: Steel ordinary moment frame
Machine Bolts	Min tensile strength = 900 MP
Anchor Bolts/Rods	ASTM F1554, GR.55
Welding Electrodes	480 MP (E-70 KSI) MIN



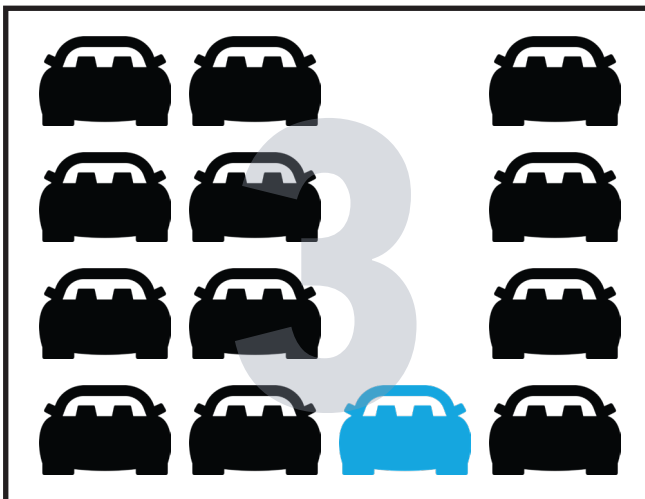
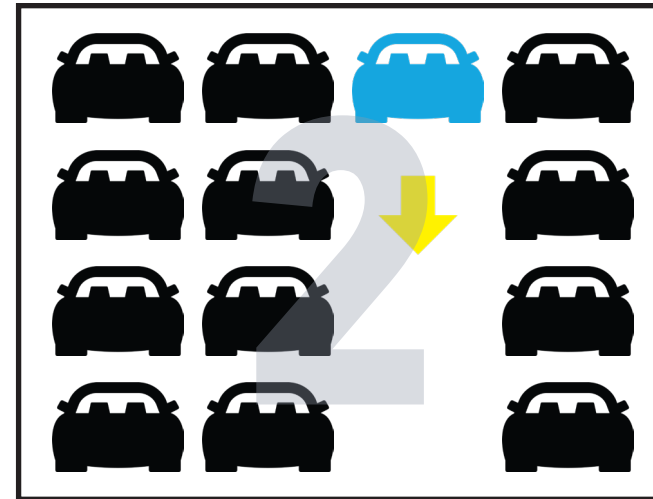
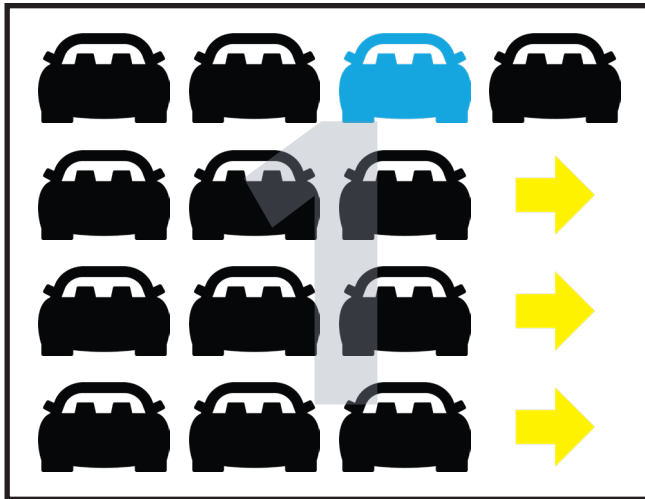
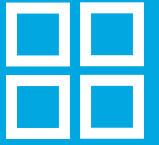
PLATFORM SIZES



SMALL			
Acura ILX	BMW 3-Series	Honda Civic	Lexus IS
MEDIUM			
Audi A6	BMW X5	Dodge Durango	Jeep Grand Cherokee
LARGE			
BMW 5-Series	Chrysler 300	Honda CR-V	Volvo XC60
X-LARGE			
Audi Q5	Chevrolet Corvette	Honda Pilot	Tesla Model S

Note: Standard load is 5,200 lbs per vehicle. Heavier loads available. Individual cars should be measured for size fit. Above is a sample list of 2016 model cars that can fit on the different platform sizes given a 6' horizontal clear height. This list is not meant to be comprehensive or exhaustive.

CAR RETRIEVAL



1. Except for the top level, one space will be missing from each level. This allows for each car to be independently accessible via kiosk or remote key fob. For the blue car to be retrieved, 3 cars from levels 1-3 will move to the right.
2. This allows for the blue car to drop to ground level.
3. Blue car is ready to be retrieved.



CITYLIFT PARKING

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