

Attachment No. 5



Preliminary Parking Operations Plan 10744 Washington Blvd, Culver City, CA

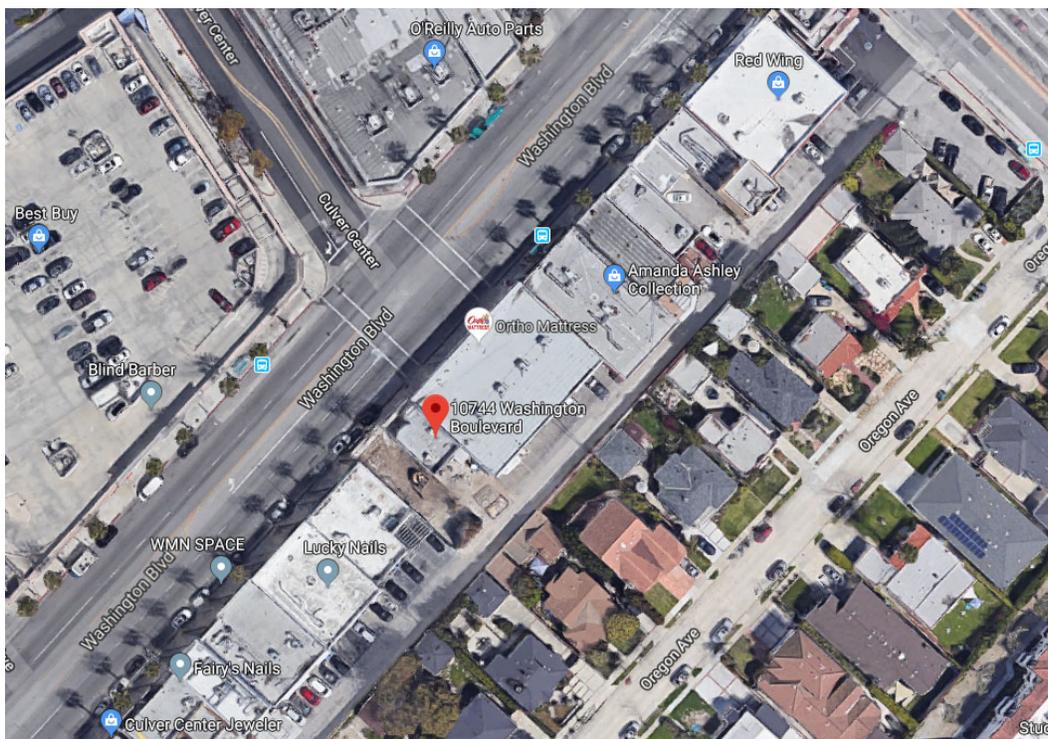
November 18, 2019

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Project Overview

This is for the conditional use permit required to expand the square footage of the building at 10746 Washington Street in Culver City.



Background

This building is part of a project located at 10744-10746 Washington Boulevard, which constitutes the expansion of the office's if Cosmetic Aesthetics from its current location at 10744 to the subject building at 10746.

During the demolition phase of our project we faced some serious structural challenges, unforeseen and unanticipated. When touched, the perimeter CMU wall crumbled, and upon

exploration we discovered that the entirety of this buildings perimeter inexplicably contained no rebars or grout. As we continued exploring, we were forced to remove more and more of it to prevent life threatening collapse. So, the entire second floor, at the rear of the building, was removed.

Planning interaction

We proceeded to discuss ways to replace and reinforce. We considered locating the second-floor further forward, which would resolve some of our circulation issues, and then looked at various other solutions, with the planners and building official.

Current proposal

The current proposal is to expand the second floor and to rebuild it as proposed. The current are of 625 sf is located in the rear, but we are consolidating the two buildings by expanding and pushing the back mass forward. This proposal will relocate our surgery center to the second floor.

Architecture and design

We have changed the facade, being able to do so, and now have a much more cohesive building. The body of the building is polished white stone. The glazed face is primarily Panelite, a beautiful honeycombed product with frosted glazing that glows with the backlit low color temperature LED to provide ambient lighting. A canopy connects the two buildings and there are two bays of clear glass to see in as well.

The rear is simple and utilitarian, stucco and block. A parking lot is located in the rear off of the service alley.

Parking

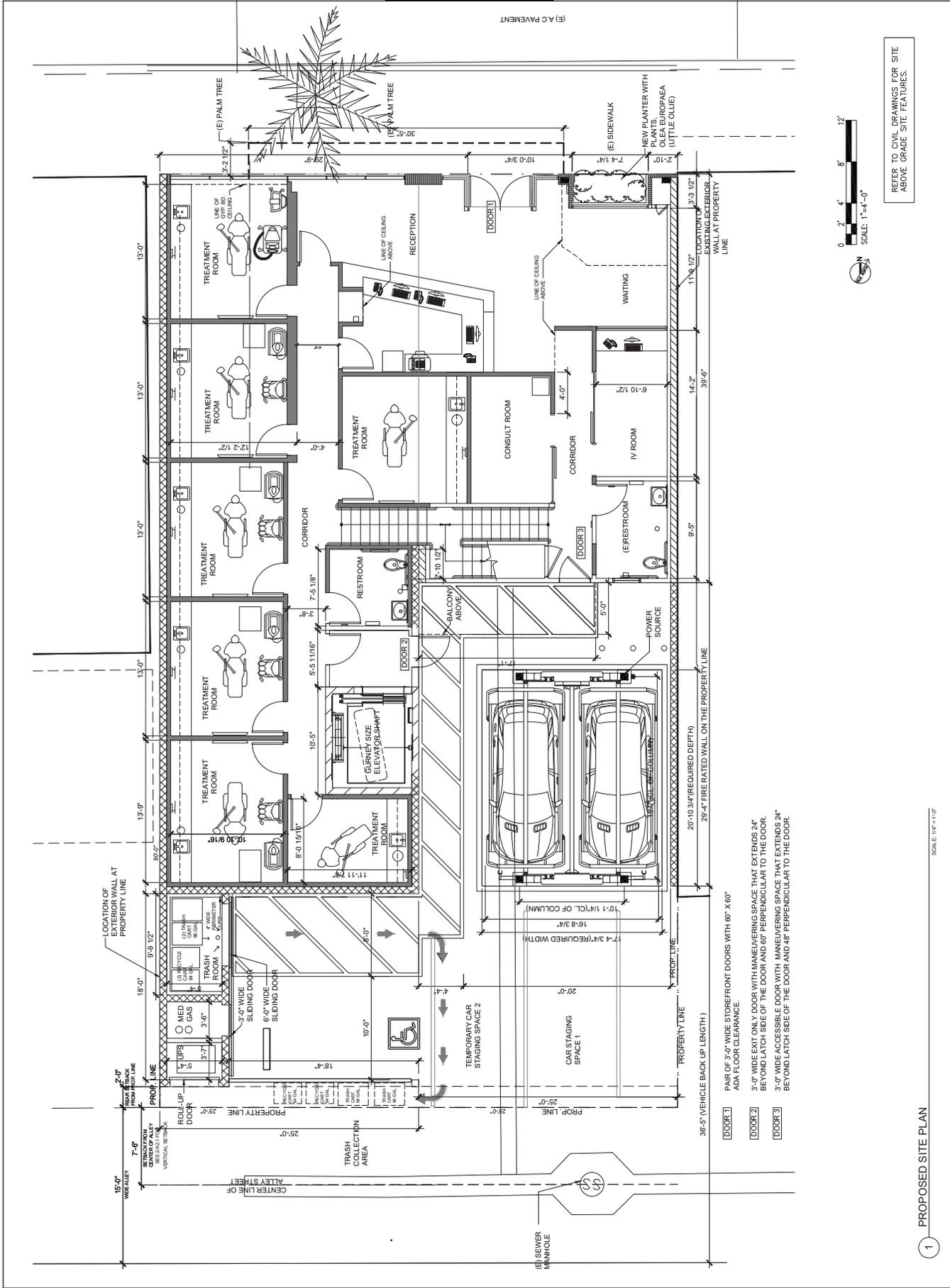
One of the issues we faced was the need for additional parking spaces. Because of the lack of land, we would like to use the vehicle parking stackers. We are proposing a total of 7 parking spaces, 1 ADA accessible parking on ground and 6 on rotary parking stack, SM6SU.

REVISIONS

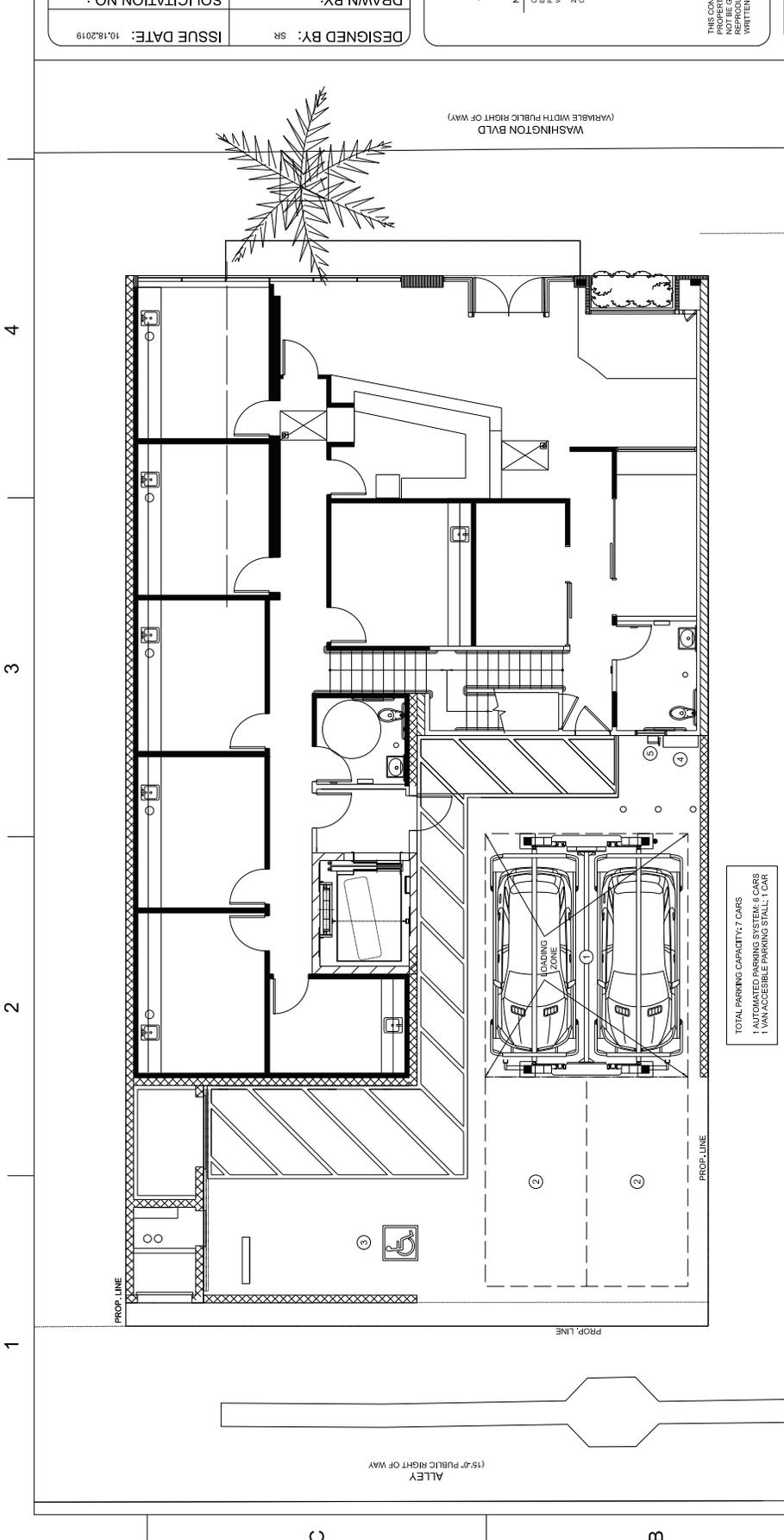
NO.	REVISIONS	DATE
1	FOR APPLICATION	10/10/2019
2	FOR SUBMISSION	10/20/19
3	FOR PERMIT SUBMITTAL	10/20/19
4	FOR PERMIT SUBMITTAL 2	10/20/19
5	FOR REBID SUBMISSION	10/20/19
6	FOR PERMIT SUBMITTAL 3	10/20/19

ISSUE DATE: 10/20/2019
 DRAWING TITLE: PROPOSED SITE PLAN
 DRAWING NUMBER: A0.2

REFER TO CIVIL DRAWINGS FOR SITE ABOVE GRADE SITE FEATURES.



1 PROPOSED SITE PLAN
 SCALE: 1/4" = 1'-0"



TOTAL PARKING CAPACITY: 7 CARS
 1. AUTOMATED PARKING SYSTEM: 6 CARS
 1. VAN ACCESSIBLE PARKING STALL: 1 CAR

B1 PARKING OPERATION PLAN

- ① PARKMATIC ROTARY CAROUSEL PARKING SYSTEM
- ② TEMPORARY QUEUING SPACES
- ③ VAN ACCESSIBLE PARKING STALL
- ④ PARKMATIC POWER UNIT
- ⑤ 220V 3 PHASE 60 AMP QUICK DISCONNECT BY OWNER

PEAK OPERATION PLAN:

1. PRIOR TO EMPLOYEES/TENANTS ARRIVING, THE AUTOMATED PARKING SYSTEM WILL ROTATE UNTIL AN EMPTY PLATFORM IS POSITIONED AT GROUND LEVEL.
2. DURING AM HOURS, EMPLOYEES/TENANTS WILL QUEUE INSIDE THEIR CARS IN THE TEMPORARY SURFACE SPACES WHILE THE SYSTEM IS IN USE OR IN MOTION.
3. ONCE THE SYSTEM IS CLEARED, EMPLOYEES/TENANTS WILL DRIVE INTO THE LOADING ZONE AND PARK THEIR VEHICLE ON THE EMPTY PLATFORM.
4. EMPLOYEES/TENANTS WILL THEN EXIT THE LOADING ZONE AND ACTIVATE THE SYSTEM VIA DISPLAY INTERFACE TO FINISH STORING THEIR VEHICLE.

PEAK OPERATION PLAN:

1. DURING PM HOURS, EMPLOYEES/TENANTS WILL QUEUE OUTSIDE OF THE LOADING ZONE WHILE THE AUTOMATED PARKING SYSTEM IS IN USE OR IN MOTION.
 2. ONCE THE SYSTEM IS CLEARED, EMPLOYEES/TENANTS WILL ACTIVATE THE SYSTEM VIA DISPLAY INTERFACE TO RETRIEVE THEIR VEHICLE.
 3. THE SYSTEM WILL THEN ROTATE UNTIL THE REQUESTED VEHICLE IS POSITIONED AT GROUND LEVEL.
 4. EMPLOYEES/TENANTS WILL ENTER THE LOADING ZONE, GET INTO THEIR VEHICLE AND DRIVE OUT OF THE SYSTEM.
- *A TRAINED EMPLOYEE WILL BE ON-SITE AT ALL TIMES TO ASSIST EMPLOYEES/TENANTS WITH OPERATION OF THE AUTOMATED PARKING SYSTEM.
- NONOPERATION IN THE EVENT THE AUTOMATED PARKING SYSTEM IS OUT OF OPERATION FOR MORE THAN TWO BUSINESS DAYS DUE TO MECHANICAL, OPERATIONAL, COMPUTER SOFTWARE DAMAGE, OR ANY OTHER REASONS, THE OWNER SHALL SUBMIT AN ALTERNATIVE PARKING PLAN WITHIN THREE DAYS OF NON-OPERATION TO THE PLANNING DIVISION. THE ALTERNATIVE PARKING PLAN SHALL PROVIDE PARKING TO MEET THE REQUIRED PARKING OF THE SUBJECT USE WHICH THE AUTOMATED PARKING SYSTEM SERVES. THE ALTERNATIVE PARKING MAY EITHER BE ON-SITE OR OFF-SITE AND SHALL BE APPROVED BY THE DIRECTOR.

A1 KEY NOTES

A2 PEAK OPERATION NOTES

DESIGNED BY: SR	ISSUE DATE: 10.18.2019
DRAWN BY:	SOLICITATION NO.:
CHECKED BY:	CONTRACT NO.:
SUBMITTED BY:	
SIZE:	

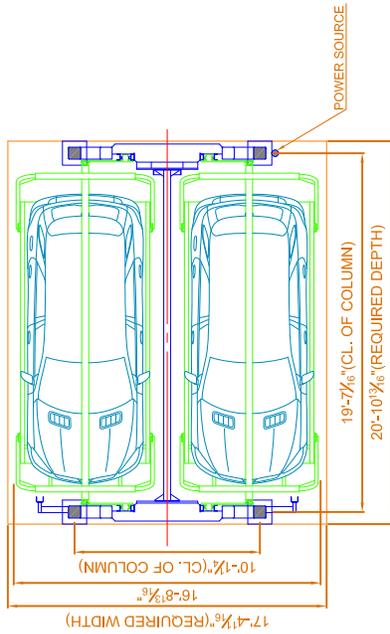
Parkmatic
 NEW YORK OFFICE, USA
 CONTACT: IAN WASSER
 E: IAN@PARKMATIC.COM
 P: 212.486.1000
 W: PARKMATIC.COM
 2005 SOUTH STREET
 COLLEGE POINT, NY 11368

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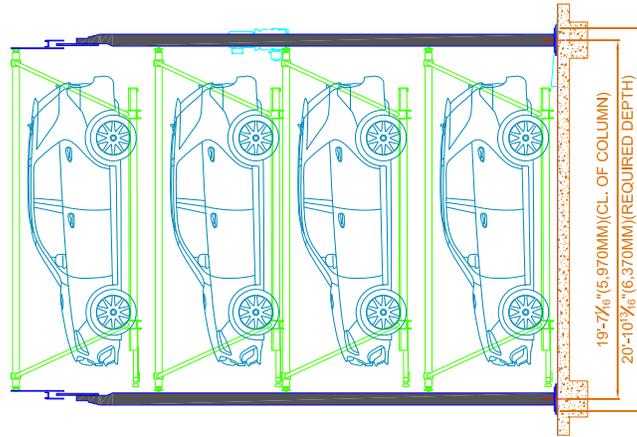
PROJECT LOCATION
 10744-10748 WASHINGTON BLVD
 CULVER CITY, CA 90232

DWG DESCRIPTION
 AM AUTOMATED OPERATION
 PARKING PLAN

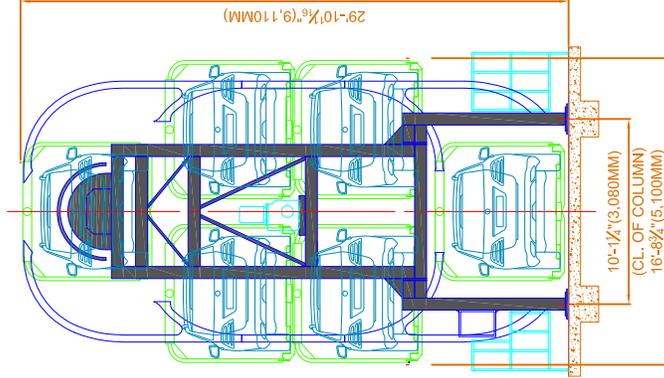
DWG NO.
 AP-0.1



PLAN



SIDE ELEVATION



FRONT VIEW

SPECIFICATION		
BRAND NAME	SMART PARKING™	
MODEL NO.	SM6SU	
TYPE	VERTICAL ROTARY PARKING	
PARKING CAPACITY	6 CARS	
AVAILABLE CAR	LENGTH	17'- ³ / ₄ " (5,200mm)
	WIDTH	6'-10 ¹ / ₈ " (2,100mm)
	HEIGHT	6'-2 ³ / ₈ " (1,900mm)
WEIGHT	5,290lb (2,400kg)	
MOTOR	7.5kw x 4P	
SPEED	3.6m /min	
POWER	AC380V x 3Ph x 60Hz	
KOREAN CERTIFICATE, SEOUL 1-14		
PATENT 10-0485605, 10-1075262, 10-1108226		
20-0326138, 0308440		
CE CERTIFICATE, M8A 15 02 60033 007 & 008		
GOST CERTIFICATE, C-KR.B.00721		
ISO 9001-2008, UKAS-BMTRADA NO.3473		

VERTICAL LOAD PER COLUMN (BY DD+LL, NOT APPLIED WL)

LOAD	SM6SU
LOAD(TON _t)	8.4
LOAD(KN)	82

MODEL	SMART PARKING	SM6SU	(INCH)
PROJECTION	SCALE	DATE	CHECKED
DESIGN	DATE	DESIGN	APPROVED
DWG. NO.	SM6SU-0000-00	WTDY	D.Y.PARK
		H.S.YOO	
		REV.	Δ



Parkmatic automated & mechanical parking systems.



20190605TK

Operation Manual



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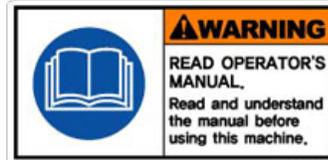
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5. Operation Control Panel

1. General Information

1.1 Foreword



Read and understand this operation manual before operating SMART PARKING®.

This operation manual is intended to familiarize you with SMART PARKING®.

The operation manual contains important information on operating the SMART PARKING® safely, correctly and canonically. Observing this information helps to avoid hazards, repair costs and downtimes and increase the reliability and service life of the SMART PARKING®.

The operation manual must always be available in a suitable place where the SMART PARKING® is installed. The operation manual must be read, understood and used by every person who parking a car, retrieving a car or operating the SMART PARKING®.

This particularly applies to the sections "Safety instructions" in the individual sections of this maintenance manual. The following basic principle applies:

Safety first!

Do not put the machining centre into operation before you have read this user's manual!

The operation manual is to be supplemented by information concerning existing national regulations on accident prevention and environmental protection in the user's country.

In addition to the binding regulations valid in the country of use and at the place of installation, the recognized technical rules for safe, professional work are to be observed.

1.2 Information about Company and local distributor

■ **Company's name and address:**

Company name: DONGYANG PC, INC.

Address: B413 Wollim Lions Valley , 18 Yangpyung-dong, 5ga Yungdeungpo-gu, Seoul, Korea

Tel : +82-2-2638-7750, Fax : +82-2-2638-7753

Web site: www.dysmart.com

Email: dysmart@hotmail.com

■ **Local distributor's name and address:**

Company name:

Address:

Web site:

Email:

1.3 Copyrights, industrial property rights, warranty

1.3.1 Copyrights, industrial property rights

The copyright of this operation manual remains with Company.

This operation manual is only intended for users of the SMART PARKING® and their personnel (e.g. operating and service personnel) for internal use.

The operation manual contains descriptions, regulations and information which may not, in full or in part, be

- copied
- distributed
- otherwise communicated or
- utilized without authorization for the purposes of the competition.

If the competition should endeavor to view this operation manual, we expect the same fairness from you which you also expect from your users in such cases.

Violations may lead to legal consequences and make you liable for compensation.

All rights reserved, in particular in the case of patents being awarded or other registrations. We reserve the right to make technical modifications.

The illustrations and diagrams in this operation manual show important design details but are not binding in terms of dimensional accuracy and details.

1.3.2 Warranty and liability

Warranty and liability claims for personal injury and damage to property are excluded when they can be traced to one or more of the following causes:

- not using the SMART PARKING® in accordance with its designated use.
- incorrect assembly, commissioning, operation and maintenance of the SMART PARKING® including associated equipment.
- failure to observe information, regulations and instructions in the operation manual and signs on the SMART PARKING®.
- deficient servicing of the SMART PARKING®, including associated equipment.
- repairs carried out incorrectly, including the use of replacement parts which do not correspond to the manufacturer's specifications.
- unauthorized structural and/ or functional modifications to the SMART PARKING®.
- unauthorized modification of the software on programmable controls.
- disasters due to influences from foreign bodies and/ or force majeure.

1.4 Contacts

The operation manual may not be made accessible to third parties or copied without our written permission.

The Company reserves the right to make modifications in the interests of continual further development.

Please send the Local Distributor or Company any questions, suggestions or recommendations regarding the operation of the SMART PARKING®.

Please send the Local Distributor enquiries and orders for accessories and replacement parts of the SMART PARKING®.

Please contact to Local Distributor or Company if you detect any defects of the SMART PARKING®.

1.5 Obligations of the user and of the personnel

The user undertakes only to let persons operate the SMART PARKING® who:

- are familiar with the basic regulations on car parking safety and accident prevention and have been instructed in handling the using the SMART PARKING®.
- have read and understood this operation manual and in particular the section "Safety instructions" in this operation manual.
- have been informed of supplements, updates or revisions of the operation manual and have read and understood them.

1.6 Training, experience and skills of the user groups

Generally, the following user groups are employed during the service life of the SMART PARKING®:

- Operating personnel (of the user)
- Maintenance technician, service technician (of the user)
- Maintenance technician, service technician (from local distributor)

And they have to have trained and have skilled properly to for using the SMART PARKING®.

2. General Safety Instructions

2.1 Foreword

The operation manual is intended to help to user for safe operation of the SMART PARKING® and use its designated application possibilities. It contains information on the safe, proper and economic operation of the plant. By observing the information you can avoid hazards, reduce repair costs and downtimes and increase the reliability of the SMART PARKING®.

Read this part of manual through carefully before operating the SMART PARKING®.

In your own interests, please ensure that you understand all safety instructions and observe them when operating the SMART PARKING®.

If you detect any defects of the SMART PARKING®, please contact to Local Distributor or Company.

2.2 Warning instructions and signs

2.2.1 Safety instructions

User of the SMART PARKING® is responsible for the supervision of correct observance of the safety instructions.

In addition to this safety manual, observe the generally valid legal and other binding regulations concerning accident prevention and environmental protection.

General safety instructions

<p>CAUTION</p> 	<p>To avoid personal injury and damage to property, the safety instructions must be observed. SMART PARKING® may only be used in technically perfect condition, observing safety instructions and hazard warnings in accordance with the Operation Manual.</p> <p>Faults which impair safety must be eliminated immediately, as otherwise liability obligations become null and void.</p> <p>The user may not make any modifications, additions or conversions, changes to software or equipment which affects the safety of SMART PARKING®.</p>
<p>WARNING</p> 	<p>SMART PARKING® is supplied generally without any installations for firefighting. Supply or adapt a firefighting facilities or fire extinguishers in accordance with the firefighting regulation if it is required.</p>

Prior to park a car in to SMART PARKING®

<p>CAUTION</p> 	<ul style="list-style-type: none"> ● All passengers must get out from car at outside of SMART PARKING® ● Check the overall height of car prior to enter in to entrance of SMART PARKING® ● Lower or fold an exposed rod-antenna prior to park a car. ● Fold side mirrors of car prior to park a car. ● Move forward car slowly in to entrance. Speed limit is less than 4km/hr. ● Make forward parking, reverse parking is not allowed.
<p>WARNING</p> 	<ul style="list-style-type: none"> ● Do not enter into the SMART PARKING® during it is in operation. ● Do not drive in to the SMART PARKING® if an empty pallet does not stop completely at right position at the entrance. ● Check the car dimensions and do not park an over-sized car.

Prior to leave from a car after parking in SMART PARKING®

<p>WARNING</p> 	<ul style="list-style-type: none"> ● Park a car at the right position on the empty pallet ready at the entrance. ● Follow the message shown on the instruction board mounted above the mirror of SMART PARKING®. ● Power engine off and make the gearshift to the "P" position. ● Lock the side brake or the foot brake of car.
<p>DANGER</p> 	<ul style="list-style-type: none"> ● Close all car doors completely prior to leave from car. ● Do not stay in the car or inside of the SMART PARKING®.

Operation of SMART PARKING®

<p>WARNING</p> 	<ul style="list-style-type: none"> ● Do not turn power switch off the SMART PARKING® during operation. ● Drivers or operator should report any unusual noise or operational defect when using SMART PARKING®.
<p>DANGER</p> 	<ul style="list-style-type: none"> ● Do not operate the SMART PARKING® if somebody is inside of SMART PARKING® or inside of a car which parked in to SMART PARKING®. Operate SMART PARKING® after ensuring that nobody or obstruction is inside Smart Parking. Operate SMART PARKING® after confirm no any persons are inside of Operate SMART PARKING®. ● Operate SMART PARKING® after confirm all car doors are completely closed.

Car retrieving from SMART PARKING®

<p>CAUTION</p> 	<ul style="list-style-type: none"> ● Do not enter into the SMART PARKING® during it is in operation. ● Do not retrieve car from the SMART PARKING® if the car loaded pallet does not stop completely at right position at the entrance.
<p>WARNING</p> 	<ul style="list-style-type: none"> ● Fold side mirrors of car prior to retrieve a car. ● Lower or fold an exposed rod-antenna prior to park a car. ● Come out slowly driving car backward. ● Do not turn off power switch during operation ● Drivers or operator should report any unusual noise or operational defect when using SMART PARKING®.

2.2.2 Signs

The following pictograms or warning signs for safety instructions are used in the operation manual and on the SMART PARKING®.

Observe these signs :



Warning of a danger zone

This sign warns of dangers due to residual risks. It stands for:

- Danger to persons: Danger, Warning, Caution
- Danger to property: Caution



Danger due to electrical power

The sign is attached to inside of the control panel of the SMART PARKING® which electrical devices are situated which involves dangers. Particular care should be taken at these points



The sign is attached to both side of fence or wall of the SMART PARKING® where person might be situated which involve dangers. Particular care should be taken at these points



The sign is attached to entrance of the SMART PARKING®.

Where something located on the floor under the parking pallet the pallet might be deformed and damaged when SMART PARKING® rotates.

FOLD SIDE MIRRORS BEFORE YOU ENTER

The sign is attached to entrance of the SMART PARKING®.
 The side mirrors might be damaged if it does not been folded when park a car or retrieve car at SMART PARKING®.



The sign is attached to entrance of the SMART PARKING®.
 Passenger must leave from car before park in to SMART PARKING®
 Pull down antenna or take antenna out if it exposed before park in to SMART PARKING®
 Make sure car dimension before park in to SMART PARKING®
 A vehicle height exceeds is prohibited to park in to SMART PARKING®
 Move forward slowly when park in to SMART PARKING®



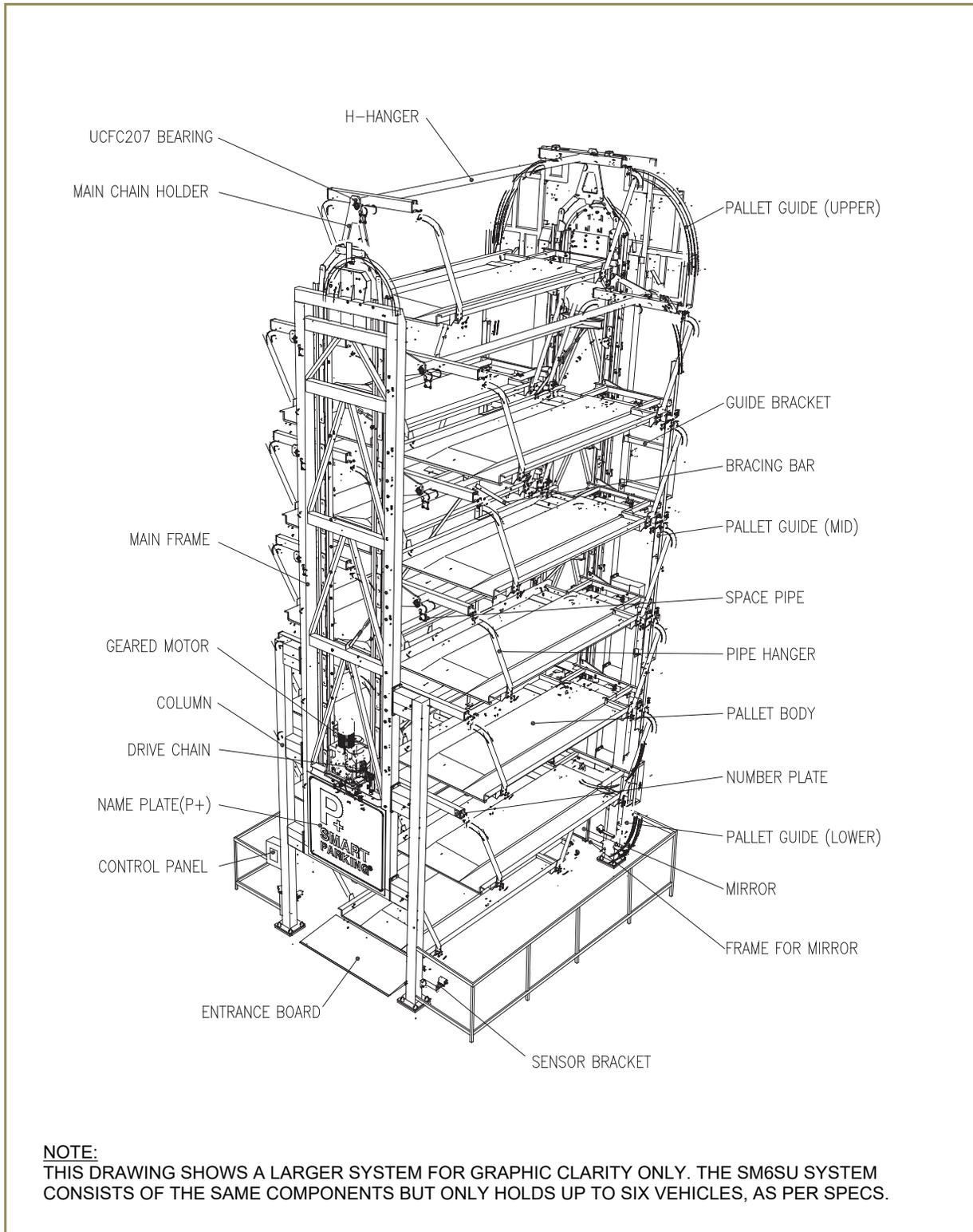
The sign is attached on the mirror at rear side of the SMART PARKING®.
 It allows forward parking only, prohibited a reverse parking.
 Set brake when leave car after park a car in to SMART PARKING®.
 Remove key and make power off of engine and AV of car after park in to SMART PARKING®. .
 Close all doors completely prior to leave from car after park in to SMART PARKING®. .

3. Specification

Products Name		SMART PARKING®
Model No.		SM6SU
Type of mechanical parking		Vertical Rotary type
Dimension (mm)	Length(mm)	6370 (20'-10 13/16")
	Width(mm)	5100 (16'-8 3/4")
	Height(mm)	9110 (29'-10 1/16")
Parking Capacity (cars)		6
Available car	Length(mm)	5200 (17'-0 3/4")
	Width(mm)	2150 (7'-0 5/8")
	Height(mm)	1900 (6'-2 13/16")
	Weight(kgf)	2500 (5511lbs)
Motor(kw)		7.5kw (10hp)
Speed		4m/min
Operation type		Pallet number / Ten-key / C – button Automatic empty pallet preparation
Noise level		55-60dB
Available temperature		-40°C to +55°C
Protection		IP54
Power		AC 415/400/380/320V, 3Ph, 50/60Hz
Parking manner		Forward parking & Reverse retrieving
Safety Devices		Photo Sensor at the front, rear & both sides. EOCR (Electric Over Current Relay) Emergency Button Pallet Ovrerrun Stopper Falling Prevention Device (Double guide rail)
Attestation of Conformity of the CE marking		M8A 15 02 60033 008

4. Particulars of SMART PARKING®

4.1 Overall



4.2 Control panel



5. Operation control panel

Car parking

- Drive in car on the empty pallet.
(Press C-button to call an empty pallet if the entrance pallet is not empty).
- Press C-button to enter the car and call an empty pallet for next user.

Caution ----- !

Have to press C-button absolutely after park a car.

Car retrieval

- Press the occupied pallet number by button **1** to **16**
- Drive out car after the pallet stop completely at entrance.

Caution ----- !

Cannot retrieve car if a car is located on the entrance.

To retrieve car, press C-button first than press occupied pallet number after empty pallet is completely come down and ready at entrance if a car is located on the entrance.

Manual movement

Press the button **1** or **2**

Then SMART PARKING® rotates one step of to direction of CW or CCW.

Use this manual movement to make the home position only.

Initialization

- Shift to the MAN mode → Make a pallet to be home position exactly → Push the Stop button
→ Press the number which shall be the same number of the pallet positioned at entrance for 3 seconds
→ Release the Stop button by turning right side → Shift to the AUTO mode.
(Car data of the initialized pallet be deleted)

Restart when stop

Press R-button if SMART PARKING® stopped by detecting the entrance sensor at the AUTO mode operation.

Operational Plan

This plan is the “Preliminary Parking Operations Plan for 10744 Washington Ave, Culver City, CA. The plan is intended to set forth an operating plan to describe how the parking garage will be operated in order to accommodate the parking needs of the site.

Operational hours

Weekdays: 7:30AM to 7:30PM,

Saturday: 8-4 PM

Sunday: closed

Queuing Analysis

Prior to tenants arriving, the rotary stacker will position with an empty platform ready at the ground level. The area in front of the rotary stacker can be used to stage the cars waiting to be parked, though this will be for a short duration as the once the car is on the platform, it takes a few seconds for the stacker to rotate and retrieve an available platform for the next car. A second staging area is provided next to the 1st staging area. It takes 60 seconds to retrieve/park the farthest top vehicle. As cars are retrieved, it is driven off the site. The operational hours will be 7:30AM to 7:30PM M-F, SAT 8-4 PM. The employees are scheduled to work in shifts and the clients are scheduled at different times, so the probability of queuing multiple cars is not expected. This system has independent fast access.

AM/PM OPERATION & NON OPERATION PLAN

PEAK AM OPERATION PLAN*:

1. PRIOR TO EMPLOYEES/TENANTS ARRIVING, THE AUTOMATED PARKING SYSTEM WILL ROTATE UNTIL AN EMPTY PLATFORM IS POSITIONED AT GROUND LEVEL.
2. DURING AM HOURS, EMPLOYEES/TENANTS WILL QUEUE INSIDE THEIR CARS IN THE TEMPORARY SURFACE SPACES WHILE THE SYSTEM IS IN USE OR IN MOTION.
3. ONCE THE SYSTEM IS CLEARED, EMPLOYEES/TENANTS WILL DRIVE INTO THE LOADING ZONE AND PARK THEIR VEHICLE ON THE EMPTY PLATFORM.
4. EMPLOYEES/TENANTS WILL THEN EXIT THE LOADING ZONE AND ACTIVATE THE SYSTEM VIA DISPLAY INTERFACE TO FINISH STORING THEIR VEHICLE.

PEAK PM OPERATION PLAN*:

1. DURING PM HOURS, EMPLOYEES/TENANTS WILL QUEUE OUTSIDE OF THE LOADING ZONE WHILE THE AUTOMATED PARKING SYSTEM IS IN USE OR IN MOTION.
2. ONCE THE SYSTEM IS CLEARED, EMPLOYEES/TENANTS WILL ACTIVATE THE SYSTEM VIA DISPLAY INTERFACE TO RETRIEVE THEIR VEHICLE.
3. THE SYSTEM WILL THEN ROTATE UNTIL THE REQUESTED VEHICLE IS POSITIONED AT GROUND LEVEL.
4. EMPLOYEES/TENANTS WILL ENTER THE LOADING ZONE, GET INTO THEIR VEHICLE AND DRIVE OUT OF THE SYSTEM.

*A TRAINED EMPLOYEE WILL BE ONSITE AT ALL TIMES TO ASSIST EMPLOYEES/TENANTS WITH OPERATION OF THE AUTOMATED PARKING SYSTEM. IN THE EVENT OF MALFUNCTION A

NON OPERATION PLAN:

IN THE EVENT THE AUTOMATED PARKING SYSTEM IS OUT OF OPERATION FOR MORE THAN TWO BUSINESS DAYS DUE TO MECHANICAL, OPERATIONAL, COMPUTER SOFTWARE, DAMAGE, OR ANY OTHER REASONS, THE OWNER SHALL SUBMIT AN ALTERNATIVE PARKING PLAN WITHIN THREE DAYS OF NON OPERATION TO THE PLANNING DIVISION. THE ALTERNATIVE PARKING PLAN SHALL PROVIDE PARKING TO MEET THE REQUIRED PARKING OF THE SUBJECT USE WHICH THE AUTOMATED PARKING SYSTEM SERVES. THE ALTERNATIVE PARKING MAY EITHER BE ON SITE OR OFF SITE AND SHALL BE APPROVED BY THE DIRECTOR.

Stacker Screening

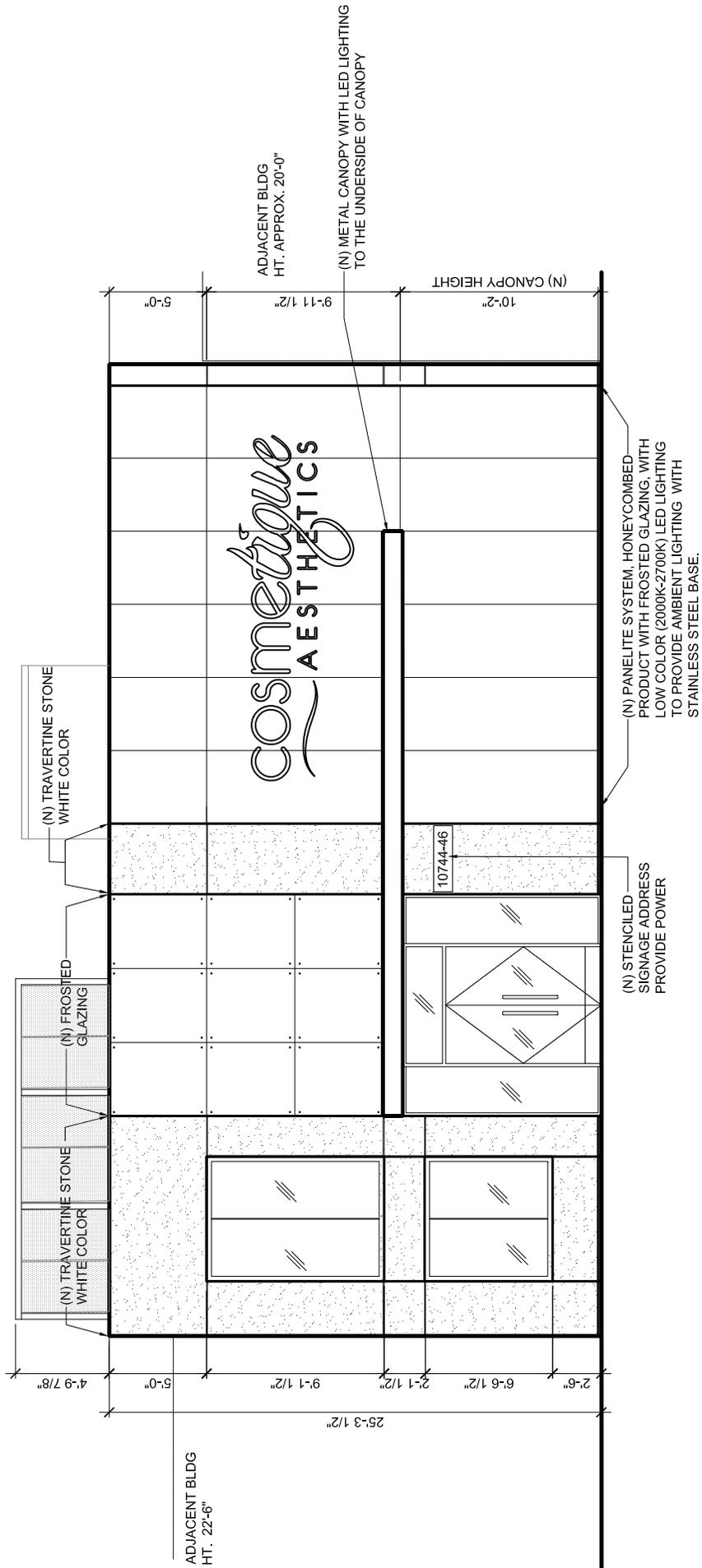
The stacker will be screened in all 4 directions. The screen is a metal frame with perforated with colors of white, light grey & dark grey.



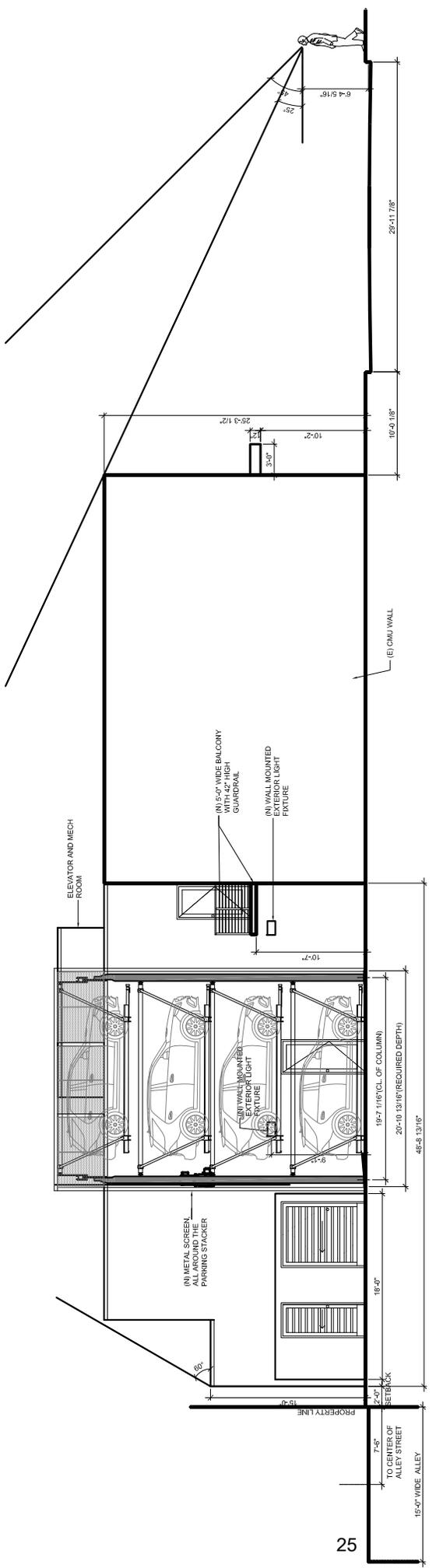
View from the Alley



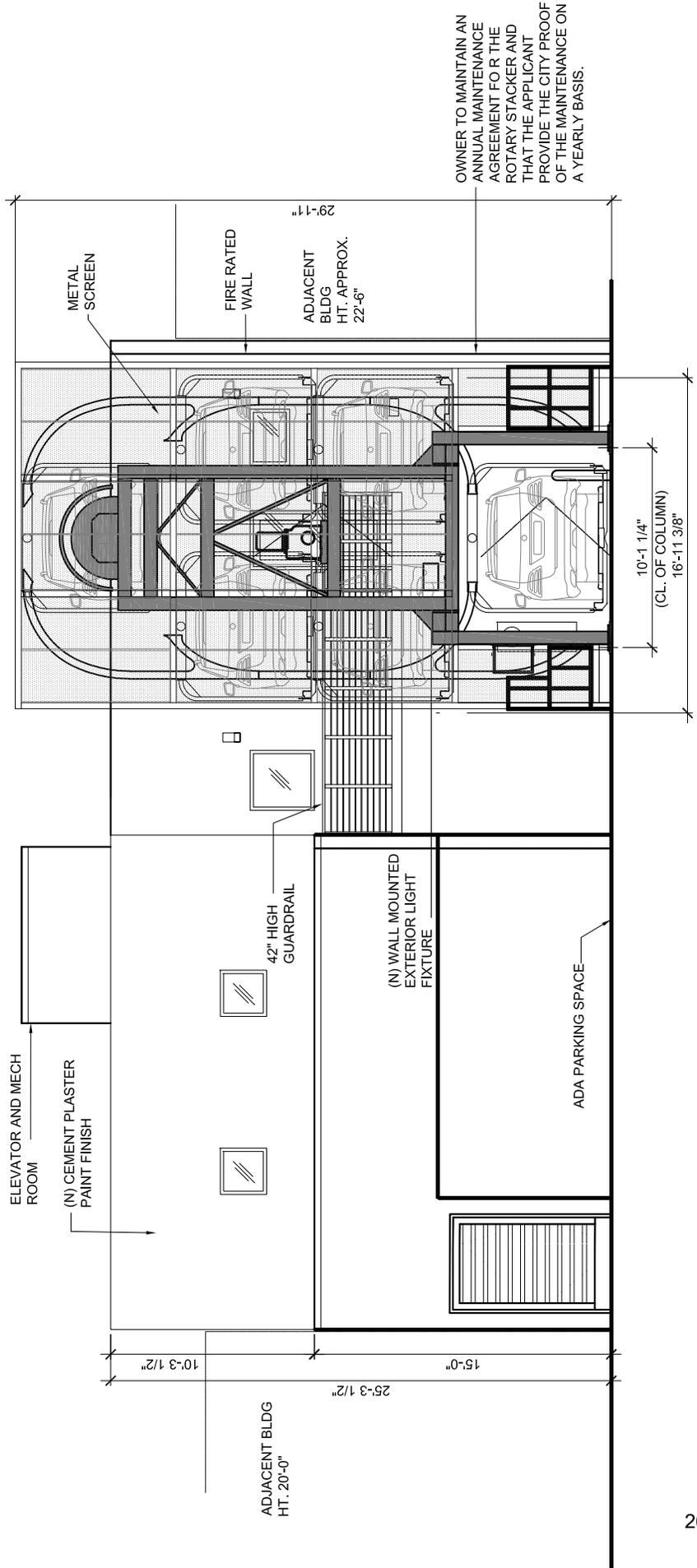
View from the Alley



PROPOSED FRONT ELEVATION



PROPOSED LEFT SIDE ELEVATION



PROPOSED REAR ELEVATION

Available Vehicles for Standard Systems

System Type		Length (mm)	Width (mm)	Height (mm)	Weight (Kg)		
SM6SU		5200	2100	1900	2500		
O: Available X: Not Available							
No.	Make	Model	Availability	Length (mm)	Width (mm)	Height (mm)	Curb Weight (Kg)
1	Acura	ILX	O	4628	1794	1413	1428
2	Acura	MDX	O	4984	1974	1712	2035
3	Acura	NSX	X	4473	2217	1214	1759
4	Acura	RDX	O	4744	1900	1669	1845
5	Acura	RLX	O	5032	1890	1466	1987
6	Acura	TLX	O	4851	1854	1447	1741
7	Aston Martin	DB9 GT	O	4724	1880	1295	1841
8	Aston Martin	DB11	O	4750	1956	1295	1760
9	Aston Martin	DBS Superleggera Coupe	O	4712	1968	1280	1693
10	Aston Martin	Rapid S	O	5020	1929	1350	1990
11	Aston Martin	Vanquish	O	4692	1912	1294	1844
12	Aston Martin	Vantage Coupe	O	4465	1942	1273	1530
13	Aston Martin	Vantage S	O	4394	1854	1270	1690
14	Audi	A3	O	4422	1781	1410	1560
15	Audi	A4	O	4727	1842	1427	1565
16	Audi	A5	O	4732	1847	1387	1690
17	Audi	A6	O	4938	1887	1458	1935
18	Audi	A7	O	4968	1908	1422	1965
19	Audi	A8 L	X	5301	1946	1486	2155
20	Audi	e-tron	X	4902	1938	1664	2610
21	Audi	Q3	O	4486	1849	1628	1771
22	Audi	Q5	O	4663	1892	1659	1835
23	Audi	Q7	O	5070	1969	1740	2235
24	Audi	Q8	O	4994	1994	1707	2270
25	Audi	R8	O	4440	1929	1252	1675
26	Audi	TT	O	4191	1831	1354	1455
27	Bentley	Bentayga	X	5140	2224	1777	2440
28	Bentley	Bentayga Hybrid	X	5140	2224	1777	2626
29	Bentley	Bentayga V8	X	5140	2224	1722	2428
30	Bentley	Continental GT	X	4850	2187	1405	2244
31	Bentley	Continental GT Convertible	X	4850	2187	1399	2414
32	Bentley	Mulsanne	X	5575	2208	1526	2711
33	Bentley	Mulsanne EWB	X	5825	2208	1541	2751
34	Bentley	Mulsanne Speed	X	5575	2208	1526	2711
35	Bentley	New Flying Spur	X	5316	2220	1484	2437
36	BMW	2 Series (M2)	O	4475	1854	1410	1633
37	BMW	3 Series (M3)	O	4717	1826	1440	1800
38	BMW	4 Series (M4)	O	4686	1869	1382	1644
39	BMW	4 Series Gran Coupe	O	4641	1826	1405	1779
40	BMW	5 Series (M5)	O	4963	1867	1468	2021
41	BMW	7 Series (M7)	X	5268	1902	1478	2340
42	BMW	8 Series (M8)	O	4872	1908	1361	1948
43	BMW	8 Series (Gran Coupe)	O	5085	1933	1402	1933
44	BMW	X1	O	4458	1821	1598	1684
45	BMW	X2 M	O	4374	1829	1527	1596
46	BMW	X3 M	O	4727	1897	1676	1958
47	BMW	X4 M	O	4760	1938	1621	1961
48	BMW	X5 M	O	4935	2004	1745	2386
49	BMW	X6 M	O	4948	2004	1697	2320
50	BMW	X7 M	X	5164	1999	1806	2568

51	BMW	Z4	O	4336	1864	1303	1568
52	BMW	i3	O	4016	1791	1590	1501
53	BMW	i8	O	4689	1942	1297	1485
54	Cadillac	ATS Sedan	O	4643	1806	1433	1607
55	Cadillac	CT6	X	5227	1880	1473	1913
56	Cadillac	CTS Sedan	O	4966	1834	1453	1822
57	Cadillac	CTS-V	O	5019	1834	1453	1878
58	Cadillac	Escalade	O	5179	2045	1890	2518
59	Cadillac	ESV	X	5697	2045	1880	2740
60	Cadillac	SRX	O	4834	1910	1669	2015
61	Cadillac	XT4	O	4599	1947	1605	1767
62	Cadillac	XT5	O	4813	1905	1676	1976
63	Cadillac	XT6	O	5042	1963	1775	2127
64	Cadillac	XTS Sedan	O	5131	1852	1501	1912
65	Chevrolet	Blazer	O	4862	1948	1702	1945
66	Chevrolet	Bolt EV	O	4166	1765	1595	1616
67	Chevrolet	Camaro ZL1	O	4831	1905	1344	1761
68	Chevrolet	Colorado	X	5403	1948	1834	2206
69	Chevrolet	Corvette Z06	O	4519	1966	1234	1598
70	Chevrolet	Cruze	O	4666	1791	1458	1286
71	Chevrolet	Equinox	O	4651	1844	1661	1593
72	Chevrolet	Impala	O	5113	1854	1496	1754
73	Chevrolet	Malibu	O	4933	1854	1455	1462
74	Chevrolet	Spark	O	3635	1595	1493	1049
75	Chevrolet	Silverado	X	5221	2032	1874	3039
76	Chevrolet	Silverado HD	X	6127	2063	1984	3202
77	Chevrolet	Sonic	O	4420	1727	1524	1290
78	Chevrolet	Suburban	X	5700	2045	1890	2611
79	Chevrolet	Tahoe	O	5182	2045	1890	2516
80	Chevrolet	Traverse	O	5189	1996	1796	1997
81	Chevrolet	Trax	O	4247	1775	1689	1517
82	Chevrolet	Volt	O	4582	1808	1433	1607
83	Chrysler	200	O	4877	1880	1491	1575
84	Chrysler	300C	O	5044	1905	1504	1935
85	Chrysler	Pacifica	O	5177	2022	1775	1964
86	Dodge	Challenger	O	5027	1923	1461	1847
87	Dodge	Charger	O	5039	1905	1486	1900
88	Dodge	Dart	O	4671	1829	1466	1458
89	Dodge	Durango	O	5110	1925	1826	3221
90	Dodge	Grand Caravan	O	5174	1999	1753	2046
91	Dodge	Journey	O	4887	1834	1722	1922
92	Ferrari	488 Pista	O	4605	1975	1206	1385
93	Ferrari	488 Pista Spider	O	4605	1975	1206	1485
94	Ferrari	812 GTS	O	4693	1971	1278	1744
95	Ferrari	812 Superfast	O	4657	1971	1276	1630
96	Ferrari	California T	O	4569	1910	1321	1730
97	Ferrari	F8 Spider	O	4611	1979	1206	1505
98	Ferrari	F8 Tributo	O	4611	1979	1206	1435
99	Ferrari	F12-Berlinetta	O	4618	1942	1273	1630
100	Ferrari	GTC4 Lusso	O	4922	1980	1383	1920
101	Ferrari	GTC4 Lusso T	O	4922	1980	1383	1865
102	Ferrari	LaFerrari	O	4702	1992	1116	1255
103	Ferrari	Monza SP1	O	4657	1996	1155	1500
104	Ferrari	Monza SP2	O	4657	1996	1155	1520
105	Ferrari	Portofino	O	4586	1938	1318	1664
106	Ferrari	SF90 Stradale	O	4710	1972	1186	1570
107	Ford	C-Max hybrid	O	4409	1920	1623	1651
108	Ford	Fiesta	O	4407	1819	1476	1192
109	Ford	Focus	O	4539	1882	1478	1470
110	Ford	Fusion	O	4872	1910	1478	1664
111	Ford	GT	O	4763	2004	1110	1385

112	Ford	Mustang	O	4831	1986	1379	2096
113	Ford	Taurus	O	5156	1963	1542	1970
114	Ford	F-150	X	5789	2121	1953	2153
115	Ford	F-250	X	6761	2032	2065	3295
116	Ford	Ecosport	O	4097	1826	1654	1497
117	Ford	Edge	O	4796	1991	1735	2031
118	Ford	Escape	O	4524	1905	1684	1703
119	Ford	Expedition	X	5334	2123	1946	2551
120	Ford	Expedition EL	X	5636	2123	1941	2628
121	Ford	Explorer	O	5050	2101	1775	1971
122	Ford	Flex	O	5126	2035	1727	2190
123	Ford	Ranger	X	5354	1976	1824	2014
124	Ford	Transit connect SWB	O	4425	1834	1829	1628
125	Ford	Transit connect LWB	O	4826	1834	1829	1677
126	Genesis	G70	O	4685	1850	1400	1763
127	Genesis	G80	O	4991	1890	1481	2139
128	Genesis	G90	O	5200	1920	1500	2225
129	Honda	Accord	O	4882	1862	1450	1555
130	Honda	Civic	O	4643	1798	1410	1318
131	Honda	Clarity	O	4895	1877	1478	1841
132	Honda	CR-V	O	4587	1854	1689	1593
133	Honda	HR-V	O	4341	1791	1605	1429
134	Honda	Odyssey	O	5161	1994	1768	2083
135	Honda	Passport	O	4839	1996	1834	1922
136	Honda	Pilot	O	4991	1996	1793	1959
137	Hyundai	Accent	O	4384	1730	1450	1215
138	Hyundai	Azera	O	4920	1860	1470	1633
139	Hyundai	Elantra	O	4620	1801	1435	1430
140	Hyundai	Elantra GT	O	4341	1796	1466	1431
141	Hyundai	Ioniq	O	4470	1821	1445	1413
142	Hyundai	Kona	O	4166	1801	1565	1486
143	Hyundai	Nexo	O	4671	1859	1641	1867
144	Hyundai	Palisade	O	4981	1976	1750	1990
145	Hyundai	Santa Fe	O	4770	1890	1704	1853
146	Hyundai	Santa Fe XL	O	4905	1885	1699	1891
147	Hyundai	Sonata	O	4854	1864	1476	1600
148	Hyundai	Tucson	O	4481	1849	1651	1693
149	Hyundai	Veloster	O	4239	1801	1400	1355
150	Infinity	Q50	O	4816	1824	1453	1813
151	Infinity	Q60	O	4684	1849	1394	1836
152	Infinity	Q70	O	4981	1844	1514	1923
153	Infinity	Q70L	O	5131	1844	1514	1963
154	Infinity	QX30	O	4425	1806	1516	1576
155	Infinity	QX50	O	4699	1902	1676	1795
156	Infinity	QX60	O	5095	1961	1742	2065
157	Infinity	QX70	O	4865	1930	1680	1990
158	Infinity	QX80	X	5339	2029	1925	2686
159	Jaguar	E-PACE	O	4394	1984	1648	1830
160	Jaguar	F-PACE	O	4732	2070	1651	1755
161	Jaguar	I-PACE	O	4681	1895	1557	2170
162	Jaguar	F-TYPE	O	4475	1885	1311	1705
163	Jaguar	XE	O	4679	1966	1425	1588
164	Jaguar	XF	O	4953	1981	1458	1755
165	Jaguar	XJ	O	5131	1900	1461	1875
166	Jeep	Cherokee	O	4623	1902	1722	1827
167	Jeep	Compass	O	4394	2032	1641	1648
168	Jeep	Gladiator	X	5537	1875	1905	2301
169	Jeep	Grand Cherokee	X	4821	2154	1760	2429
170	Jeep	Renegade	O	4232	1880	1676	1602
171	Jeep	Wrangler	O	4785	1875	1869	1965
172	Kia	Cadenza	O	4971	1869	1471	1723

173	Kia	Forte	O	4641	1801	1397	1317
174	Kia	K900	O	5121	1915	1491	2115
175	Kia	Niro	O	4356	1806	1534	1491
176	Kia	Optima	O	4854	1859	1466	1614
177	Kia	Rio	O	4384	1725	1450	1231
178	Kia	Rio 5-Doors	O	4064	1725	1450	1231
179	Kia	Sedona	O	5116	1984	1755	2049
180	Kia	Sorento	O	4800	1890	1684	1970
181	Kia	Soul	O	4196	1801	1600	1325
182	Kia	Sportage	O	4481	1854	1636	1696
183	Kia	Stinger	O	4831	1869	1400	1825
184	Kia	Telluride	O	5001	1989	1760	2033
185	Lamborghini	Aventador S	O	4797	2030	1136	1575
186	Lamborghini	Aventador SVJ	O	4943	2098	1136	1525
187	Lamborghini	Centenario	O	4924	2062	1158	1520
188	Lamborghini	Huracan EVO	O	4519	1933	1165	1422
189	Lamborghini	Huracan Performante	O	4506	1924	1165	1382
190	Lamborghini	Urus	O	5112	2016	1638	2200
191	Land Rover	Defender	X	5019	2009	1969	2343
192	Land Rover	Discovery	O	4956	2073	1854	2148
193	Land Rover	Discovery Sport	O	4597	2070	1727	1880
194	Land Rover	Range Rover LWB	X	5268	2073	1869	2597
195	Land Rover	Range Rover SWB	O	5001	2073	1869	2515
196	Land Rover	Range Rover Sport	O	4882	2073	1803	2300
197	Land Rover	Range Rover Velar	O	4806	2032	1666	2084
198	Land Rover	Evoque	O	4371	1996	1648	1785
199	Lexus	ES	O	4900	1820	1450	1630
200	Lexus	GS F	O	4915	1845	1440	1855
201	Lexus	IS	O	4665	1810	1430	1640
202	Lexus	LS	O	5090	1875	1465	2030
203	Lexus	NX	O	4630	1845	1645	1840
204	Lexus	RC	O	4705	1845	1390	1825
205	Lexus	RX	O	4890	1895	1710	2045
206	Lincoln	MKS	X	5222	2017	1565	2012
207	Lincoln	MKZ	O	4925	1864	1476	1901
208	Lincoln	MKC	O	4552	1938	1656	1813
209	Lincoln	MKX	O	4826	1999	1681	1990
210	Lincoln	MKT	X	5273	2029	1712	2242
211	Lincoln	Continental	O	5116	1984	1486	1916
212	Lincoln	Navigator	X	5646	2332	1984	2856
213	Lotus	Elice	O	3824	1719	1117	848
214	Lotus	Evora	O	4361	2047	1229	1442
215	Lotus	Exige	O	4084	1802	1129	1182
216	Maserati	Ghibli	O	4970	1945	1455	2000
217	Maserati	Granturismo	O	4880	1915	1355	1890
218	Maserati	Levante	O	5003	1968	1679	2109
219	Maserati	Quattroporte	X	5265	1950	1475	2030
220	Mazda	CX-3	O	4275	1768	1547	1339
221	Mazda	CX-5	O	4549	1842	1679	1735
222	Mazda	CX-9	O	5065	1969	1753	1988
223	Mazda	Mazda3 SEDAN	O	4661	1796	1445	1473
224	Mazda	Mazda3 Hatchback	O	4460	1796	1440	1476
225	Mazda	Mazda6	O	4895	1839	1450	1624
226	Mazda	MX-5 MIATA	O	3914	1735	1240	1083
227	Mazda	MX-5 MIATA RF	O	3914	1735	1245	1131
228	Mercedes Benz	C-Class	O	4686	1810	1442	1505
229	Mercedes Benz	E-Class	O	4923	1852	1468	1740
230	Mercedes Benz	G-Class	X	4817	1931	1969	2635
231	Mercedes Benz	S-Class	O	5141	1905	1498	2260
232	Mercedes Benz	AMG-GT Coupe	O	4544	1939	1287	1665
233	Mercedes Benz	AMG-GT-4-Door	O	5054	1871	1442	2045

234	Mercedes Benz	GLA	O	4424	1804	1494	1568
235	Mercedes Benz	GLC	O	4655	1890	1644	1985
236	Mercedes Benz	GLE	O	4924	1947	1797	2280
237	Mini	Coupe 3Door	O	3821	1727	1414	1225
238	Mini	Coupe 5door	O	3982	1727	1425	1270
239	Mini	Clubman	O	4253	1800	1441	1435
240	Mini	Countryman	O	4100	1789	1544	1415
241	Mitsubishi	Lancer	O	4623	1753	1499	1425
242	Mitsubishi	Outlander Sport	O	4366	1811	1646	1495
243	Mitsubishi	Outlander	O	4694	1811	1709	1635
244	Nissan	370Z	O	4250	1845	1315	1545
245	Nissan	Altima	O	4900	1852	1458	1555
246	Nissan	GT-R	O	4670	1895	1370	1735
247	Nissan	Juke	O	4135	1765	1570	1345
248	Nissan	Maxima	O	4900	1860	1435	1640
249	Nissan	Murano	O	4900	1915	1690	1915
250	Nissan	Pathfinder	O	5010	1960	1770	2070
251	Nissan	Sentra	O	4625	1760	1496	1706
252	Nissan	Titan	X	6167	2050	1999	2285
253	Porsche	718 Boxter	O	4392	1801	1273	1405
254	Porsche	911 Carrera	O	4498	1808	1295	1460
255	Porsche	Cayenne	O	4928	1984	1674	2293
256	Porsche	Macan	O	4686	1935	1626	2009
257	Porsche	Panamera	O	5050	1938	1425	2077
258	Porsche	Taycan	O	4963	1966	1382	2323
259	Rolls Royce	Cullinan	X	5341	2000	1835	2753
260	Rolls Royce	Dawn	X	5285	1947	1502	2560
261	Rolls Royce	Dawn Black Badge	X	5295	1947	1502	2647
262	Rolls Royce	Ghost	X	5457	1948	1550	2490
263	Rolls Royce	Ghost Black Badge	X	5467	1948	1550	2550
264	Rolls Royce	Ghost EWB	X	5627	1948	1552	2570
265	Rolls Royce	Phantom	X	5770	2018	1646	2560
266	Rolls Royce	Phantom EWB	X	5990	2018	1646	2610
267	Rolls Royce	Wraith	X	5285	1947	1507	2440
268	Rolls Royce	Wraith Black Badge	X	5285	1947	1507	2440
269	Subaru	Ascent	O	4998	1930	1819	2088
270	Subaru	BRZ	O	4234	1775	1321	1285
271	Subaru	Crosstreck	O	4465	1803	1615	1690
272	Subaru	Forester	O	4625	1816	1730	1627
273	Subaru	Impreza	O	4625	1778	1496	1420
274	Subaru	Legacy	O	4841	1839	1501	1719
275	Subaru	Outback	O	4859	1854	1679	1776
276	Subaru	WRX	O	4595	1796	1476	1594
277	Tesla	Model 3	O	4699	1854	1448	1847
278	Tesla	Model S	O	4978	1963	1440	2241
279	Tesla	Model X	O	5037	2070	1676	2509
280	Tesla	Roadster	O	4200	2000	1200	2000
281	Toyota	4Runner	O	4859	1925	1829	2180
282	Toyota	86'	O	4288	1775	1285	1287
283	Toyota	Avalon	O	4976	1849	1435	1660
284	Toyota	C-HR	O	4348	1796	1565	1497
285	Toyota	Camry	O	4943	1857	1430	1620
286	Toyota	Corolla	O	4636	1781	1435	1386
287	Toyota	GR Supra	O	4382	1854	1293	1541
288	Toyota	Highlander	O	4890	1925	1730	2045
289	Toyota	Land Cruiser	X	4950	1980	1880	2638
290	Toyota	Mirai	O	4890	1816	1537	1848
291	Toyota	Prius	O	4572	1760	1476	1461
292	Toyota	Rav4	O	4595	1854	1707	1642
293	Toyota	Sequoia	X	5210	2029	1956	2722
294	Toyota	Sienna	O	5095	1984	1811	2155

295	Toyota	Tacoma	X	5392	1910	1819	2043
296	Toyota	Tundra	X	5814	2029	1961	2481
297	Volkswagen	Arteon	O	4862	1872	1435	1748
298	Volkswagen	Atlas	O	5037	1989	1770	2042
299	Volkswagen	Beetle	O	4277	1808	1486	1366
300	Volkswagen	CC	O	4800	1855	1420	1656
301	Volkswagen	Golf	O	4255	1798	1453	1344
302	Volkswagen	Golf SportWagen	O	4567	1798	1481	1384
303	Volkswagen	Golf Alltrack	O	4562	1798	1516	1552
304	Volkswagen	Jetta	O	4704	1798	1443	1459
305	Volkswagen	Passat	O	4874	1834	1486	1485
306	Volkswagen	Tiguan	O	4702	1839	1684	1750
307	Volkswagen	Touareg	O	4801	1940	1709	2380
308	Volvo	S60	O	4760	2040	1438	1772
309	Volvo	S90	O	5083	2019	1450	2077
310	Volvo	V60	O	4636	1864	1483	1906
311	Volvo	V90	O	4935	2019	1476	1900
312	Volvo	XC40	O	4425	1910	1659	1726
313	Volvo	XC60	X	4689	2116	1659	1905
314	Volvo	XC70	O	4839	1877	1603	1783
315	Volvo	XC90	X	4950	2141	1775	2097
	Average for Sedans			4817	1921	1407	1847
	Average for SUVs			5034	1980	1761	2195

Notes:

1. ≤6mm (1/4") tolerance given for all available LxWxH dimensions.
2. Available heights include any roof-carriers or top-mounted racks.
3. Available widths assume side-mirrors folded.
4. Available curb weights are based on highest trim of vehicles.
5. Vehicles with special tires or wheel covers may not be accepted.

System Throughput Data



System Type: Rotary Carousel System

Quantity of Units: 1

Quantity of Parking Spaces: 6

Unit	Description	Min.	Max.	Avg.
PSM6SU (Entry)	Parking into system - Exiting vehicle - Activating system - System operation	40 sec	01 min 00 sec	50 sec
	Total system throughput time	04 min 00 sec	06 min 00 sec	5 min 00 sec
PSM6SU (Exit)	Activating system - System operation - Entering vehicle - Driving out of system	30 sec	01 min 30 sec	01 min 00 sec
	Total system throughput time	03 min 00 sec	09 min 00 sec	06 min 00 sec

*Min. exit times assume requested vehicle at lowest level. Max. exit times assume requested vehicle at highest level

**Avg. display interface/keypad operation time: 05 sec

***Margin of error for this calculation data is $\pm 10\%$ due to varying site conditions and user's experience operating the system

PARKMATIC CAR PARKING SYSTEMS

1129 Northern Blvd
Manhasset, NY 11030

President & CEO: Max Wassef

Director of Operations, US Region: Santiago Rios

Expected frequency of mechanical breakdown and repair time.

The carousel system has a 98% uptime when kept on a routine service schedule. In the event of a malfunction, repairs will be made approx. 4 hours from the time the technician is dispatched.

Parking system will be maintained regularly and the Operational Manual is attached with the response. When the system is under maintenance or repair, transportation of the patrons/employees from the temporary off-site parking spaces to and from the clinic we will pay for uber and lyft.

In an event of stacker malfunction, the vehicles can be extracted manually. The stacker system has a lever, that will be used to lower the vehicles. A lever is located next to the keypad of the stacker for manual operation

Temporary parking arrangements

Transportation of the patrons/employees from the temporary off-site parking spaces to and from the clinic we will pay for uber and lyft.



MAINTENANCE MANUAL



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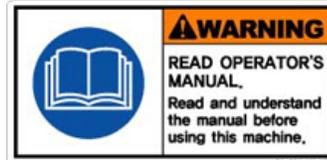
7.Trouble shooting

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1. General Information

1.1 Foreword



Please be sure to read this manual before start a maintenance work.

This maintenance manual is intended to familiarize with maintenance work of SMART PARKING®.

The maintenance manual contains important information on maintenance safely, correctly and economically. Observing this information helps to avoid hazards, repair costs and downtime and increase the reliability and service life of the SMART PARKING®.

The maintenance manual must always be available in a suitable place where the SMART PARKING® is installed.

The maintenance manual must be read, understood and used by every person who is entrusted with work with or on the SMART PARKING®, for example:

- trouble-shooting in the work process.
- maintenance, inspection and / or, repair.
- temporary shut – down.

The maintenance manual must be read, understood and used by every person who works for the maintenance of the SMART PARKING®.

This particularly applies to the section "Safety instructions" in the individual sections of this maintenance manual. The following basic principle applies:

Safety first!

Do not put the SMART PARKING® into operation before you have read this maintenance manual!

The maintenance manual is to be supplemented by information concerning existing national regulations on accident prevention and environmental protection in the user's country.

In addition to the binding regulations valid in the country of use and at the place of installation, the recognized technical rules for safe, professional work are to be observed.

1.2 Information about Company and local distributor

■ Company's name and address:

Company name: DONGYANG PC, INC.

Address: B413 Wollim Lions Valley , 18 Yangpyung-dong, 5ga Yungdeungpo-gu, Seoul, Korea
Tel : +82-2-2638-7750, Fax : +82-2-2638-7753

Web site: www.dysmart.com

Email: dysmart.hotmail.com

■ Local Distributor's name and address:

Company name:

Address:

Web site:

Email:

1.3 Copyrights, industrial property rights, warranty

1.3.1 Copyrights, industrial property rights

The copyright of this maintenance manual remains with Company.

This maintenance manual is only intended for maintenance of the SMART PARKING® and their personnel (e.g. operating and service personnel) for internal use.

The maintenance manual contains descriptions, regulations and information which may not, in full or in part, be

- copied
- distributed
- otherwise communicated or
- utilized without authorization for the purposes of the competition.

If the competition should endeavor to view this maintenance manual, we expect the same fairness from you which you also expect from your users in such cases.

Violations may lead to legal consequences and make you liable for compensation.

All rights reserved, in particular in the case of intellectual properties being awarded or other registrations. We reserve the right to make technical modifications.

The illustrations and diagrams in this maintenance manual show important design details but are not binding in terms of dimensional accuracy and details.

1.3.2 Warranty and liability

Warranty and liability claims for personal injury and damage to property are excluded when they can be traced to one or more of the following causes:

- not using the SMART PARKING® in accordance with its designated use.
- incorrect assembly, commissioning, maintenance and maintenance of the SMART PARKING® including associated equipment.
- failure to observe information, regulations and instructions in the maintenance manual and signs on the SMART PARKING®.
- deficient servicing of the SMART PARKING®, including associated equipment.
- repairs carried out incorrectly, including the use of replacement parts which do not correspond to the manufacturer's specifications.
- unauthorized structural and/ or functional modifications to the SMART PARKING®.
- unauthorized modification of the software on programmable controls.
- disasters due to influences from foreign bodies and/ or force majeure.

1.4 Contacts

The maintenance manual may not be made accessible to third parties or copied without our written permission.

The Company reserves the right to make modifications in the interests of continual further development.

Please send the Local Distributor or Company any questions, suggestions or recommendations regarding the maintenance the SMART PARKING®.

Please send the Local Distributor enquiries and orders for accessories and replacement parts of the SMART PARKING®.

Please contact to Local Distributor or Company if you detect any defects of the SMART PARKING®.

1.5 Obligations of the Maintenance Officer and of the personnel

The Maintenance Officer undertakes only to let persons can works for maintenance of the SMART PARKING® who:

- are familiar with the basic regulations on safety and accident prevention and have been instructed in handling the maintenance of the SMART PARKING®.
- have read and understood this maintenance manual and in particular the section "Safety instructions" in this maintenance manual.
- have been informed of supplements, updates or revisions of the maintenance manual and have read and understood them.

1.6 Training, experience and skills of the user groups

Generally, the following user groups are employed during the service life of the SMART PARKING®:

- Operating personnel (of the user)
- Maintenance technician, service technician (of the user)
- Maintenance technician, service technician (from local distributor)

And they have to have trained and have skilled properly to for the maintenance of the SMART PARKING®.

2. General Safety Instructions

2.1 Foreword

The maintenance manual is intended to help for safe maintenance of the SMART PARKING® and use its designated application possibilities. It contains information on the safe, proper and economic operation of the plant. By observing the information you can avoid hazards, reduce repair costs and downtimes and increase the reliability of the SMART PARKING®.

Read this part of manual through carefully before start maintenance activities for the SMART PARKING®.

In your own interests, please ensure that you understand all safety instructions and observe them when work for maintenance of the SMART PARKING®.

If you detect any defects of the SMART PARKING®, please contact to Local Distributor or Company.

2.2 Warning instructions and signs

2.2.1 Safety instructions

The maintenance person of the SMART PARKING® is responsible for correct observance of the safety instructions.

In addition to this safety manual, observe the generally valid legal and other binding regulations concerning accident prevention and environmental protection.

<p style="text-align: center;">CAUTION</p> 	<ul style="list-style-type: none"> ● To avoid personal injury and damage to property, the safety instructions must be observed. ● SMART PARKING® may only be used in technically perfect condition, observing safety instructions and hazard warnings in accordance with the Operation manual and the Maintenance manual. Faults which impair safety must be eliminated immediately, as otherwise liability obligations become null and void. ● The user may not make any modifications, additions or conversions, changes to software or equipment which affects the safety of SMART PARKING®.
<p style="text-align: center;">WARNING</p> 	<ul style="list-style-type: none"> ● The maintenance workers must wear a safety helmet, a safety shoes and must fasten a safety belt properly when doing any of maintenance activities. ● An inspection or repair works shall be done only by trained and authorized personnel. ● In the case of inspection, maintenance and repair works of the control panel or inverter panel the power to be disconnected via the power switch. Only open the inner door of the control panels after interrupting the main power off. ● Have to operate SMART PARKING® after have double confirmation between workers and operator when workers working at high place. ● The maintenance workers always have to watch steps when they work at high place not to be a fall down by losing one's footing. ● For years of trouble-free service and to comply with warranty requirements, only authorized service centers, the authorized maintenance personnel and System Administrator should perform system maintenance and repairs.

2.2.2 Signs

The following pictograms or warning signs for safety instructions are used in the Operation manual, the Maintenance manual and on the SMART PARKING®.

Observe these signs :



Warning of a danger zone

This sign warns of dangers due to residual risks. It stands for:

- Danger to persons: Danger, Warning, Caution
- Danger to property: Caution



Danger due to electrical power

The sign is attached to inside of the control panel of the SMART PARKING® which electrical devices are situated which involves dangers. Particular care should be taken at these points



The sign is attached to both side of fence or wall of the SMART PARKING® where person might be situated which involve dangers. Particular care should be taken at these points



The sign is attached to entrance of the SMART PARKING®.

Where something located on the floor under the parking pallet the pallet might be deformed and damaged when SMART PARKING® rotates.



The sign is attached to entrance of the SMART PARKING®.
 The side mirrors might be damaged if it does not been folded when park a car or retrieve car at SMART PARKING®.



The sign is attached to entrance of the SMART PARKING®.
 Passenger must leave from car before park in to SMART PARKING®
 Pull down antenna or take antenna out if it exposed before park in to SMART PARKING®
 Make sure car dimension before park in to SMART PARKING®
 A vehicle height exceeds is prohibited to park in to SMART PARKING®
 Move forward slowly when park in to SMART PARKING®



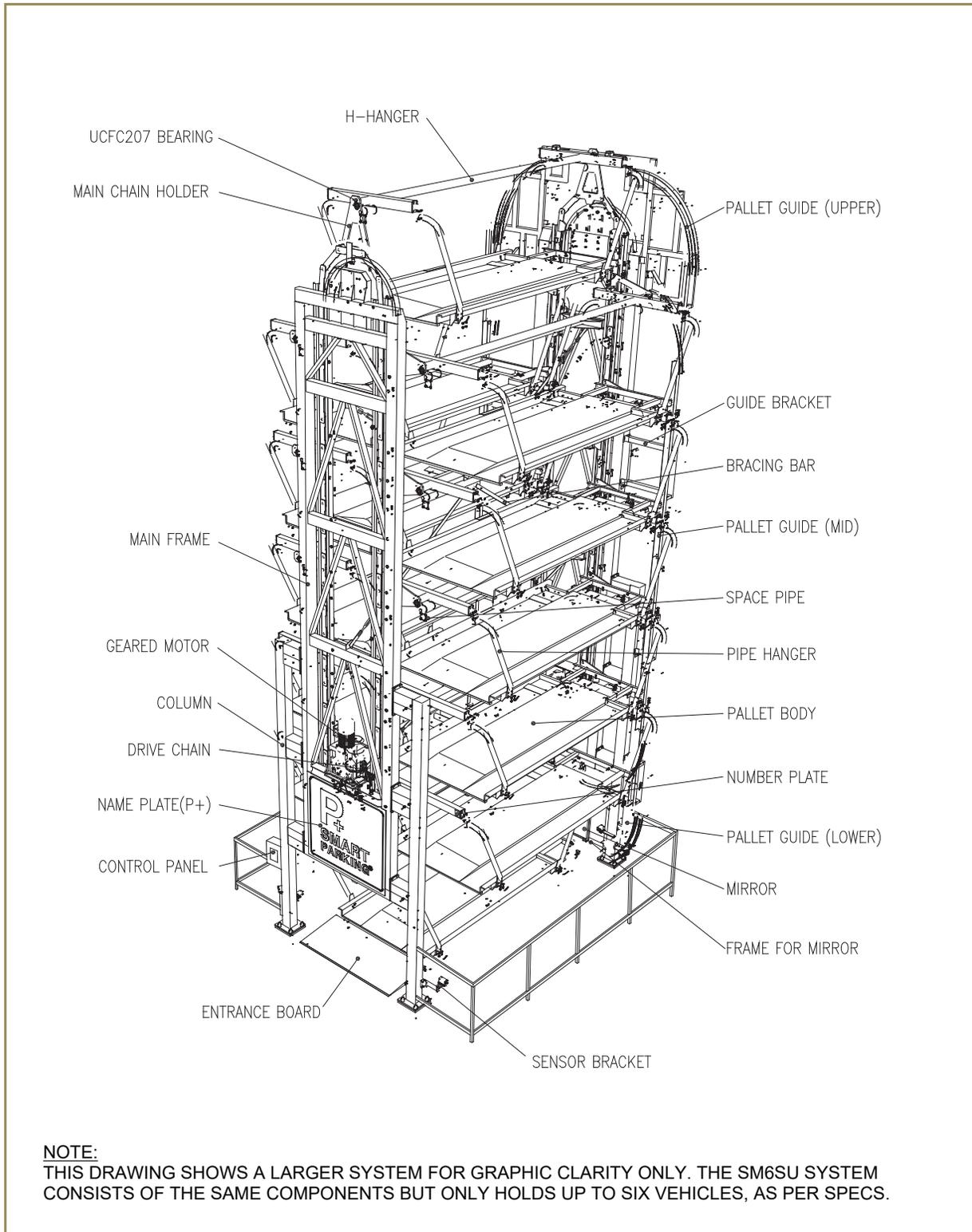
The sign is attached on the mirror at rear side of the SMART PARKING®.
 It allows forward parking only, prohibited a reverse parking.
 Set brake when leave car after park a car in to SMART PARKING®.
 Remove key and make power off of engine and AV of car after park in to SMART PARKING®.
 Close all doors completely prior to leave from car after park in to SMART PARKING®.

3. Specification

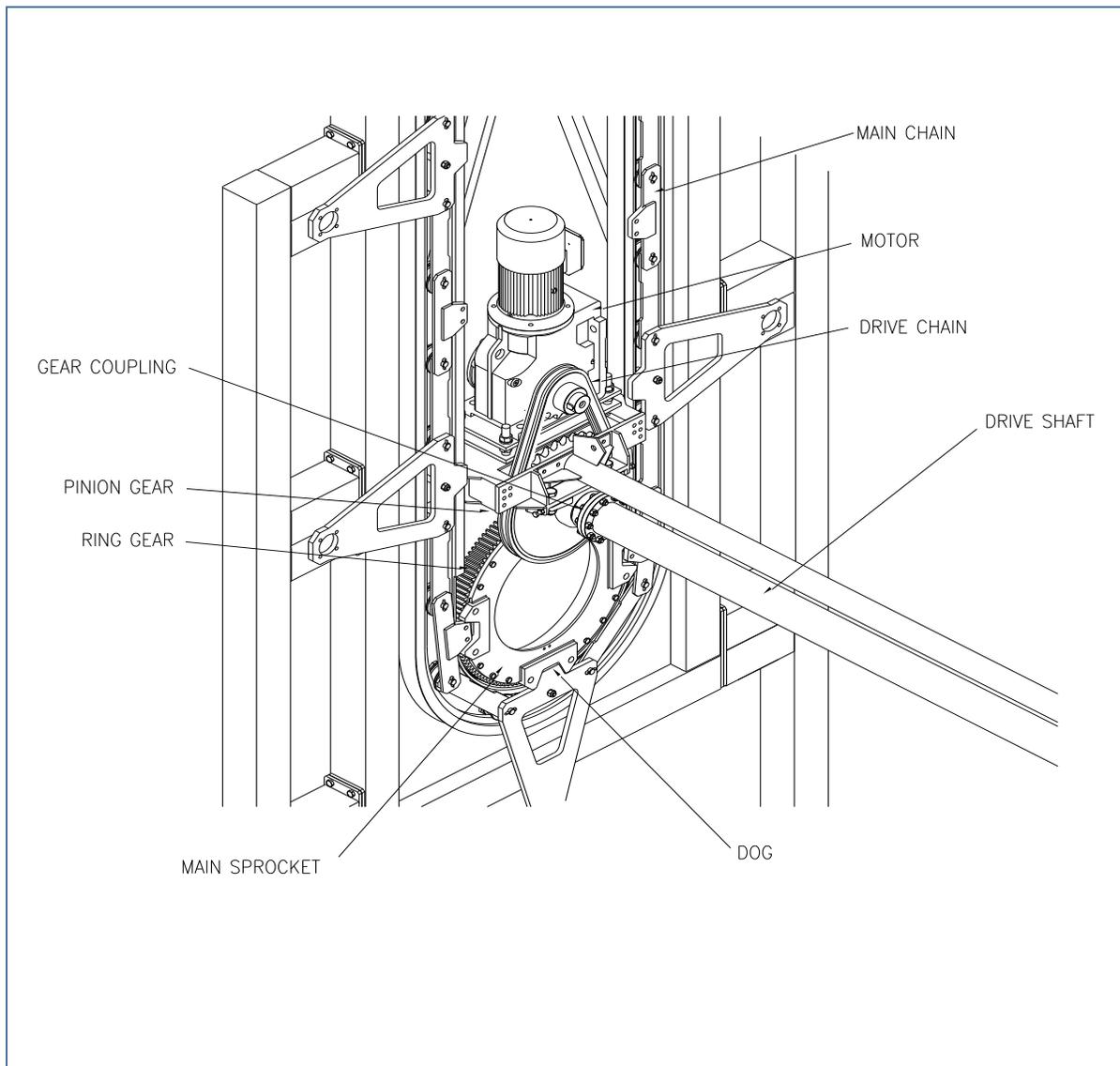
Products Name		SMART PARKING®
Model No.		SM6SU
Type of mechanical parking		Vertical Rotary type
Dimension (mm)	Length(mm)	6370 (20'-10 13/16")
	Width(mm)	5100 (16'-8 3/4")
	Height(mm)	9110 (29'-10 1/16")
Parking Capacity (cars)		6
Available car	Length(mm)	5200 (17'-0 3/4")
	Width(mm)	2150 (7'-0 5/8")
	Height(mm)	1900 (6'-2 13/16")
	Weight(kgf)	2500 (5511lbs)
Motor(kw)		7.5kw (10hp)
Speed		4m/min
Operation type		Pallet number / Ten-key / C – button Automatic empty pallet preparation
Noise level		55-60dB
Available temperature		-40°C to +55°C
Protection		IP54
Power		AC 415/400/380/320V, 3Ph, 50/60Hz
Parking manner		Forward parking & Reverse retrieving
Safety Devices		Photo Sensor at the front, rear & both sides. EOCR (Electric Over Current Relay) Emergency Button Pallet Ovrerrun Stopper Falling Prevention Device (Double guide rail)
Attestation of Conformity of the CE marking		M8A 15 02 60033 008

4. Particulars of SMART PARKING®

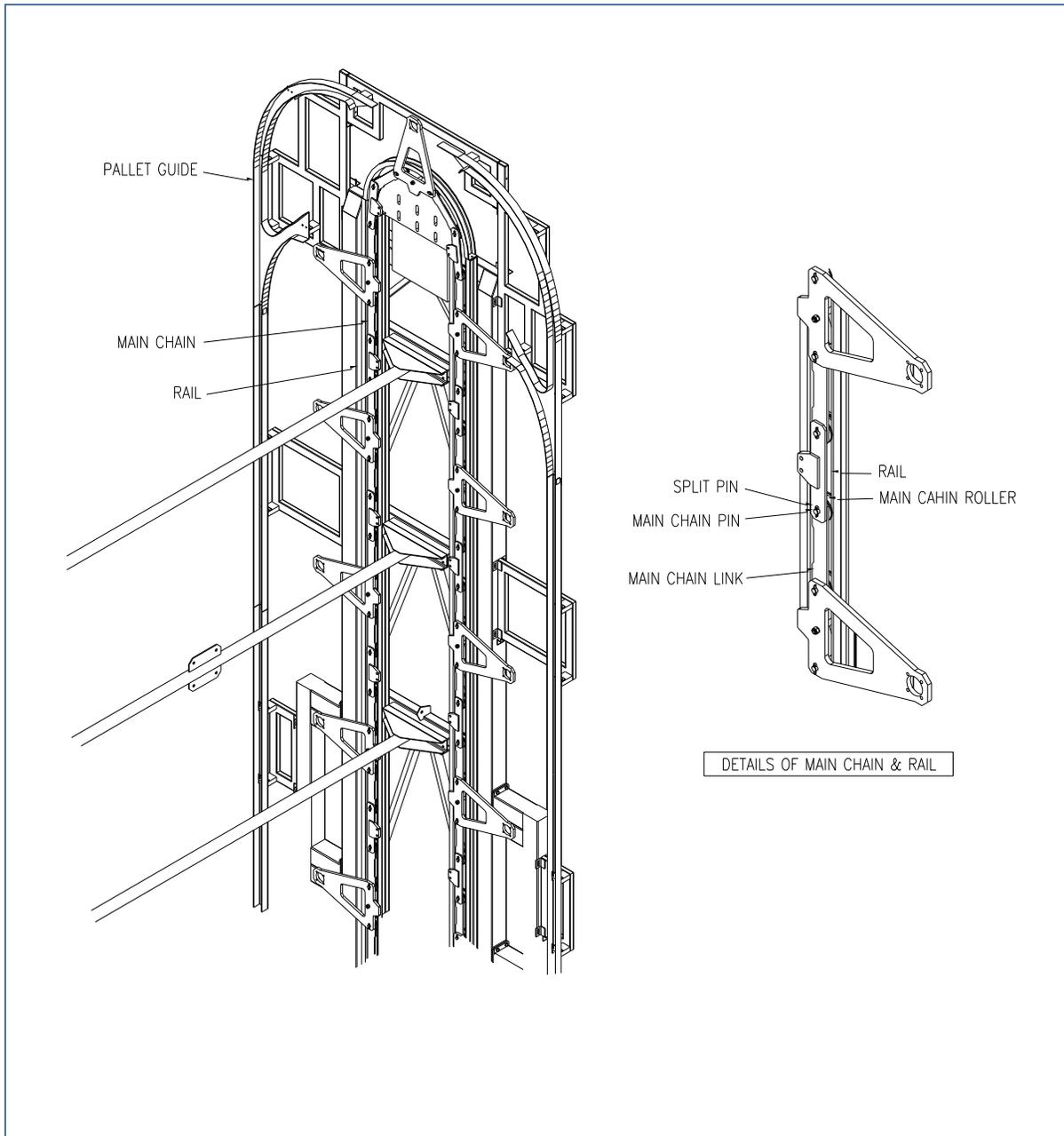
4.1 Overall



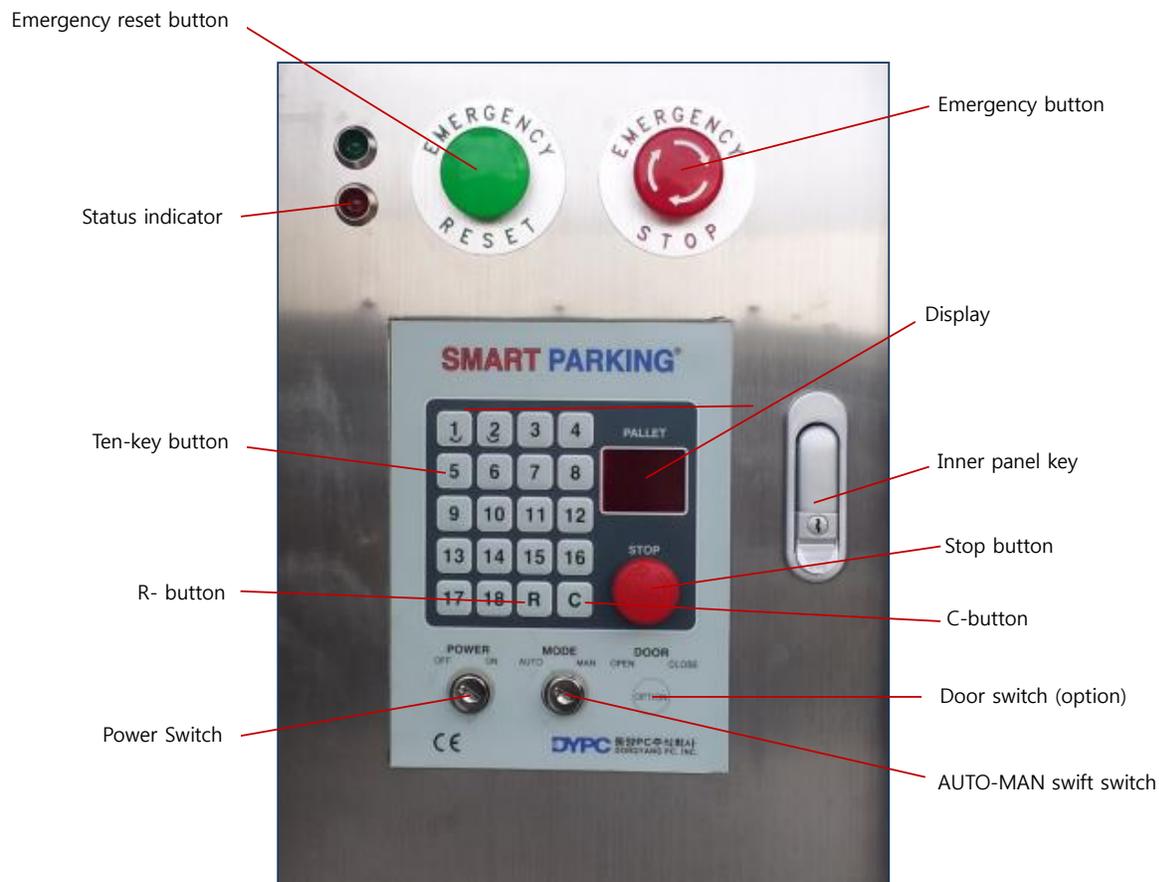
4.2 Driving part



4.3 Main Chain, Rail & Pallet Guide



4.4 Control panel



5. Preventive maintenance

To guarantee the function of the SMART PARKING® following Periodic check shall be done properly.

Part	Period	Details of check point	Record
General	M	Is there no any abnormal vibration noise?	
	M	Is there any crack or damage on the welding part?	
	M	Is there any loosened nut or bolt?	
Main Chain	M	Is there any Chain Pin rotating?	
	M	The tension of the Main Chain suitable?	
	M	Is there no any Split Pin of Main Chain sheared or damaged?	
	M	Is there proper lubricating between the Main Chain Link?	
Rail	M	Is there proper lubrication on the Rail?	
	M	Is there any wearing of Rail by Rollers of Main Chain?	
Pallet Guide	M	Is there no any crack or damage on the welding part of the Pallet Guide?	
	M	Does the Pallet Guide Roller guided uniformly on the Pallet Guide?	
Driving Part	M	Is there any unusual noise from the Driving Part when operating?	
	M	Is tension of the Drive Chain suitable? (2mm-5mm)	
	M	Is there any unusual noise from the Motor?	
	M	Is there spread grease on the Drive Chain?	
	M	Is there spread grease on the Ring Gear & the Pinion Gears?	
	M	Is there spread grease on the Dogs of the Main Sprocket?	
Pallet	M	Is the Snap Ring in the Guide Rollers for the Pallet fastened completely?	
	M	Rolling of the Pallet from side to side should less than 20mm at entrance.	
	M	Is there any unusual knocking sound from the UCFC Bearing?	
Control Panel & Sensor	M	Are the Switches on the Control Panel are normal?	
	M	The Control Panel should be suitable for waterproof.	
	M	All Sensors should be detected well.	
Painting	M	Are there any rusted part?	
Floor	M	Is there no problem for a water drain on the ground floor?	

6. Lubrication

Part	Lubrication	Period
Rail (Side faces)	Grease (normal grease)	2 month
Link Plates of Main Chain	Oil (normal gear oil)	2 months
Driving Chain	Grease (normal grease)	3 months
Dog of Main Sprocket	Grease (normal grease)	3 months
UCFC Bearing	Grease (normal grease)	2 months
Reducer	Oil (SHELL OMALA220HD or equivalent)	60 months
Gear Coupling	Grease (normal grease)	60 months

7. Trouble shooting

Trouble	Cause of Trouble	Trouble shooting
Motor does not run	Trip of EOCR due to overload	-Remove the cause of overload. -Reset EOCR.
Selected pallet does not come down, or does not stop at the correct position	Used at manual mode or electricity failure. Changing the phase of electricity.	-Need initialization. -Change connection of phase of electric power.
Another pallet come down	Changed phase of electricity.	-Press <input type="button" value="1"/> at MAN mode and make initialization. -Change connection of a phase of electricity.
Pallets do not stop and rotate continuously	Disorder of home sensor	-Check the distance between home sensor and detector (it to be around 6 to 8mm). -Replace the home sensor.
Displayed "A"	Disorder of side sensors & front sensor (mirror side)	-Clean up the sensor. -Align the sensor. -Replace the sensor.
Displayed "b"	Disorder of entrance sensor	-Clean up the sensor. -Align the sensor. -Replace the sensor.
Displayed "C"	Disorder of home sensors	-Press <input type="button" value="1"/> at MAN mode and make initialization. -Check the distance between home sensor and detector (it to be around 6 to 8mm). -Replace the home sensor.
Displayed "E"	Emergency stop or overload	-Resolve the cause of overload. -Reset EOCR. -Release Emergency button. (Turn to the right side).
Displayed "D"	MAN mode	Swift to AUTO mode
Displayed "F"	Parked in full	Do not park more cars.

Initialization

Shift to the MAN mode → Make a pallet to be home position exactly

→ Push the Emergency button → Press the number which shall be the same number of the pallet positioned at entrance for 3 seconds

→ Release the Emergency button by turning right side → Shift to the AUTO mode.

(Car data of the initialized pallet be deleted)

8. Tool set

NO.	DESCRIPTION	SPECIFICATION	UNIT	Q'TY
1	SPANNER	10M (SAESHIN)	EA	1
2	SPANNER	14M (SAESHIN)	EA	1
3	SPANNER	17M (SAESHIN)	EA	2
4	SPANNER	19M (SAESHIN)	EA	2
5	SPANNER	22M (SAESHIN)	EA	2
6	SPANNER	24M (SAESHIN)	EA	2
7	SPANNER	30M (SAESHIN)	EA	2
8	SPANNER	32M (SAESHIN)	EA	2
9	SPANNER	36M (SAESHIN)	EA	2
10	SPANNER	46M (SAESHIN)	EA	2
11	DRIVER	8 IN +/-	EA	2
12	DRIVER	1x150L LINE COLOR	EA	2
13	DRIVER	8 IN +/-	EA	2
14	DRIVER	3.2x150L(-) LINE COLOR	EA	2
15	SLING BELT	1"×1M, (0.8ton)	EA	2
16	SLING BELT	1"×2M, (0.8ton)	EA	2
19	RACHET WRENCH	17x19(SUPER)	EA	2
20	RACHET WRENCH	24x27(SUPER)	EA	2
21	RACHET WRENCH	32x36(SUPER)	EA	2
22	LEVER BLOCK	1.5TON-D3 (DAESAN)	EA	1
23	HAMMER	#10 WONCHANG	EA	1
24	HAMMER	Copper, Middle size	EA	1
25	PINCHER	8" SAESHIN	EA	1
26	BALL WRENCH SET	9 PCS (USA)	SET	2
27	WRENCH SOCKET	1/2"×30 FOR IMPACT WRENCH	EA	2
28	UNIVERSAL JOINT	1/2" IMPACT	EA	2
29	SNAP RING PLIER	9" (JAPAN)	EA	1
30	SNAP RING PLIER	7" (JAPAN)	EA	1
31	SCREW DRIVER	GSB-16RE	EA	1
32	CABLE REEL	3Px1.5x50m	EA	1
34	CUTTING KNIFE	Large size	EA	2
35	GREASE GUN	PRESOL (GERMANY)	EA	1
36	MEASURING TAPE	7.5Mx25 STOP (HL25x75)	EA	1
37	BOX WRENCH	1/2x19	EA	2
38	BOX WRENCH	1/2x22	EA	2
39	BOX WRENCH	1/2x32	EA	1
40	WRENCH CONNECTOR	1/2×10"	EA	1
41	WRENCH CONNECTOR	1/2×5"	EA	1
42	SAFETY BELT	DMS502	EA	2
43	SAFETY BELT	DMS-201 (SMATO)	EA	3
44	SAFETY HELMET	HEAVY DUTY, White color	EA	3
45	C-CLAMP	3"	EA	2
46	MONKEY WRENCH	12"x300 (SESHIN)	EA	1
47	ELECTRIC IMPACT	1/2 TW0350 (MAKITA)	대	2

9. Spare parts list

NO.	DESCRIPTION	SPECIFICAION	UNIT	Q'TY
1	MAIN CHAIN ROLLER	Φ136x54	EA	1
2	MAIN CHAIN PIN	Φ34x138	EA	1
3	MAIN CHAIN PIN	Φ34x125	EA	1
4	MAIN CHAIN SPLIT PIN (SUS)	D10(3/8") x 56L	EA	2
5	SNAP RING "A"	Φ20 FOR SHAFT	EA	2
6	SNAP RING "B"	φ35 FOR SHAFT	EA	2
7	GUIDE ROLLER	Φ100 x 45L MC ROLLER SET	EA	2
8	PE PAD FOR PALLET GUIDE	20T PE PAD	EA	2
9	AUTO LUBRICATOR	KLT200-BL/PL1	EA	4
10	FUSE	AC220V 5A	EA	5
11	RELAY	AC220V LY2N	EA	1
12	RELAY	AC220V MY4N	EA	1
13	RELAY	DC 24V LY2N	EA	2
14	MINI RELAY	F4T	EA	1
15	MAGNETIC CONTACTOR	MC-50	EA	1
16	MAGNETIC CONTACTOR	MC9b	EA	1
17	MAGNETIC CONTACTOR	MR4a	EA	1
18	POWER SWITCH	S-236-3C-2	EA	1
19	AUTO/MANUAL SWITCH		EA	1
20	EMERGENCY SWITCH	KDE-P3R1	EA	1
21	SELECTOR SWITCH	16Ø	EA	1
22	EMERGENCY SWITCH	KPB25ER	EA	1
23	LIMIT SWITCH	KLC12	EA	1
24	PUSH BUTTON SWITCH	KH-3071EB	EA	1
25	TOGGLE SWITCH	WJT-6310	EA	1
26	BUZZER	KH-4025D-24	EA	1
27	PHOTO SENSOR (TR. & REC.)	BEN10M-TDT	EA	1
28	PROXIMITY SENSOR	PR30-15DN	EA	1
29	LED LAMP(RED)	#16 KACON	EA	1
30	LED LAMP(GREEN)	#16 KACON	EA	1
31	DC POWER SUPPLY	220/24V 2A	EA	1

Note: The quantity is for 5 years operation.

Appendix

Measured position	Noise Level (dB)		Vibration Level (mm sec)	
	In Normal	In Operation	In Normal	In Operation
On inside Platform(1m)	55	55-60		
Main Motor(1m)	50	72 84 (Act of brakes)		
Inside Platform	50	60 72 (Act of brakes)		
Checked plate of platform			0 0	0 1-0 2
Bracket to support wall inside lift shaft			0 0	0.5-0 4

*Reference : The noise test was performed in the including of the outside sounds. The vibration of building wall could not be inspected exactly because the error of inspection is so great.

Comparison of the requirements and the design performed.

Jul.17.2019

Project: Roundabout Carousel parking project

Products: SMART PARKING® SM8L & SM6SU

Location to install: 217 S. Lake Street Burbank, CA 91502, USA (Latitude, Longitude: 34.1746756, -118.3134273)

Design criteria	Requirements	Design performed	Comparison
Design code	2016 California Building Code, (design code reference document ASCE7-10)	International Building Code	
Wind speed	110MPH	112MPH (=50m/min)	exceed
Importance Factor	1	1 (0.95)	same
Exposure Category	B	B	same
Wind Directionality Factor	0.85	0.85	same
Seismic Design Category	D	D	same
Soil Site Class	D	D	same
Importance Factor	1	1 (0.95)	same
Response Modification Coefficient	3.5	3.5	same
SDS	1.495	1.495	same
SD1	0.776	0.840	exceed

Note: Design performed for SMART PARKING® 10L, 10SU by Sen Structural Engineering Co., Ltd. In Korea.



DONGYANG PC, INC.