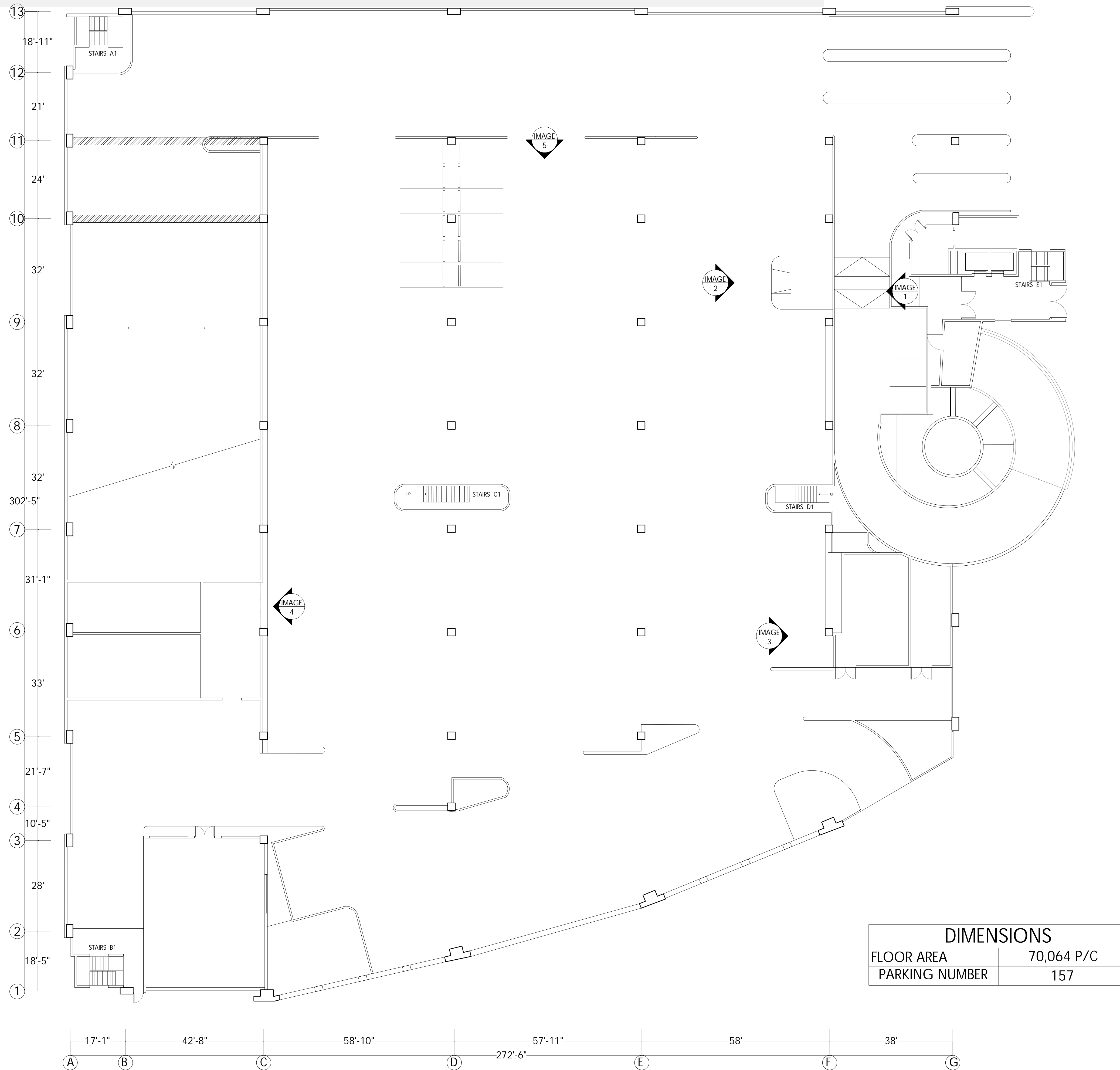






FIRST LEVEL PARKING AS BUILT - WORLD PLAZA PARKING LOT IMPROVEMENT

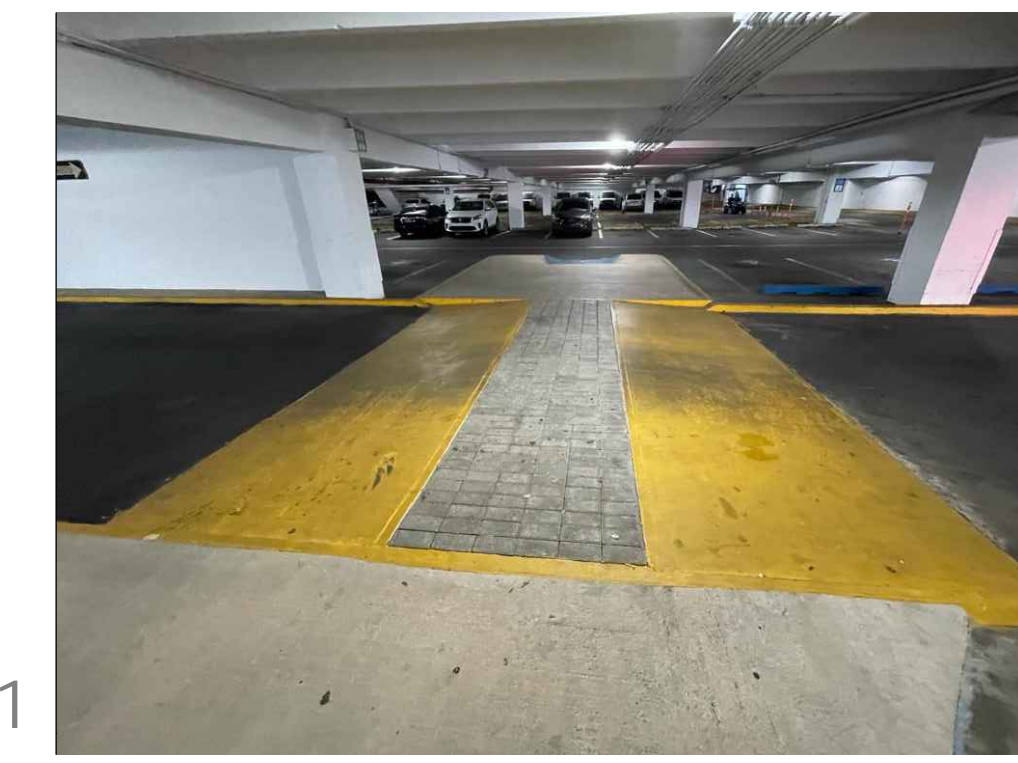


PARKING AS-BUILT - FIRST LEVEL

SCALE NTS

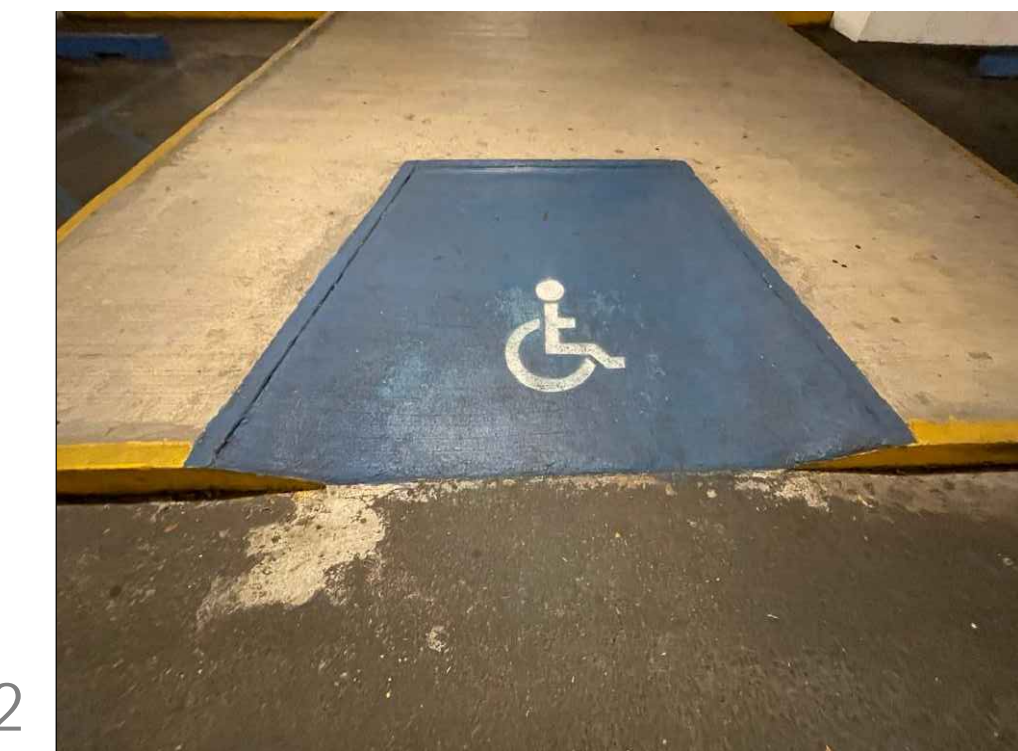
PHOTO DOCUMENTATION

IMAGE 1



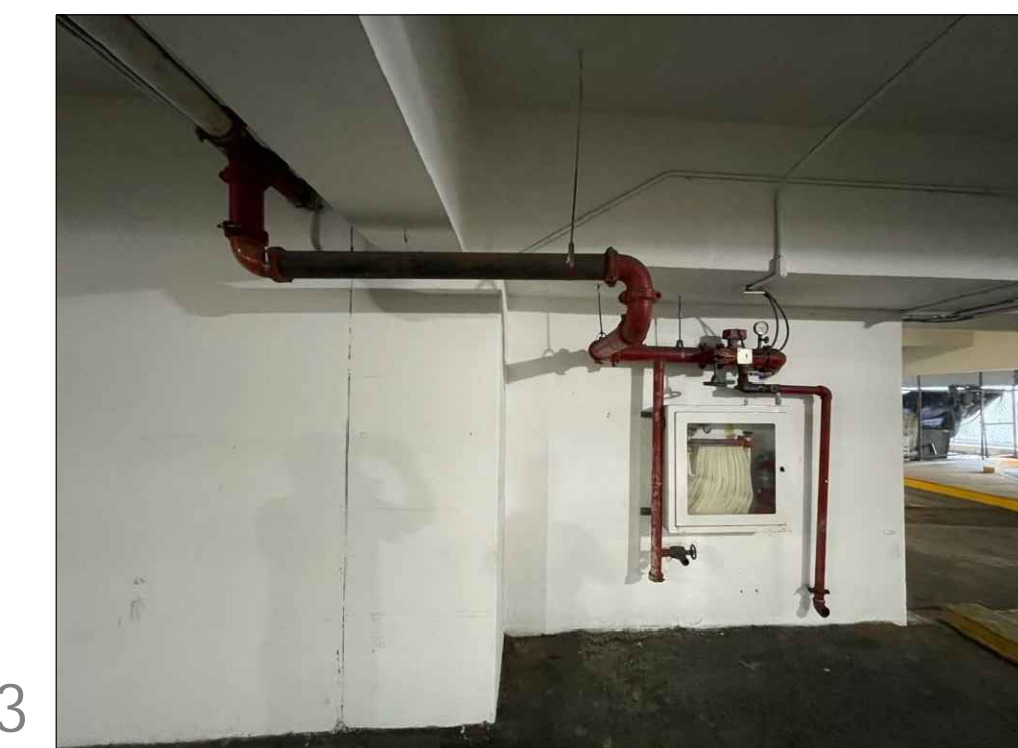
TYPICAL PEDESTRIAN CROSSING RAMP

IMAGE 2



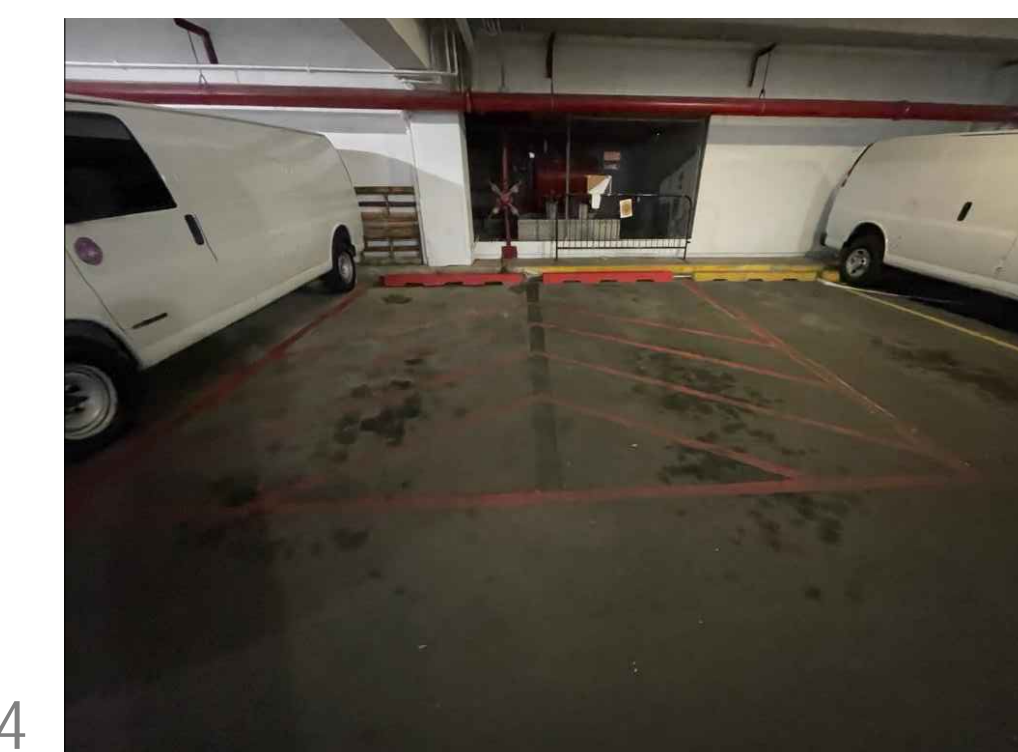
TYPICAL ADA CURB RAMP PAINT REQUIREMENT

IMAGE 3



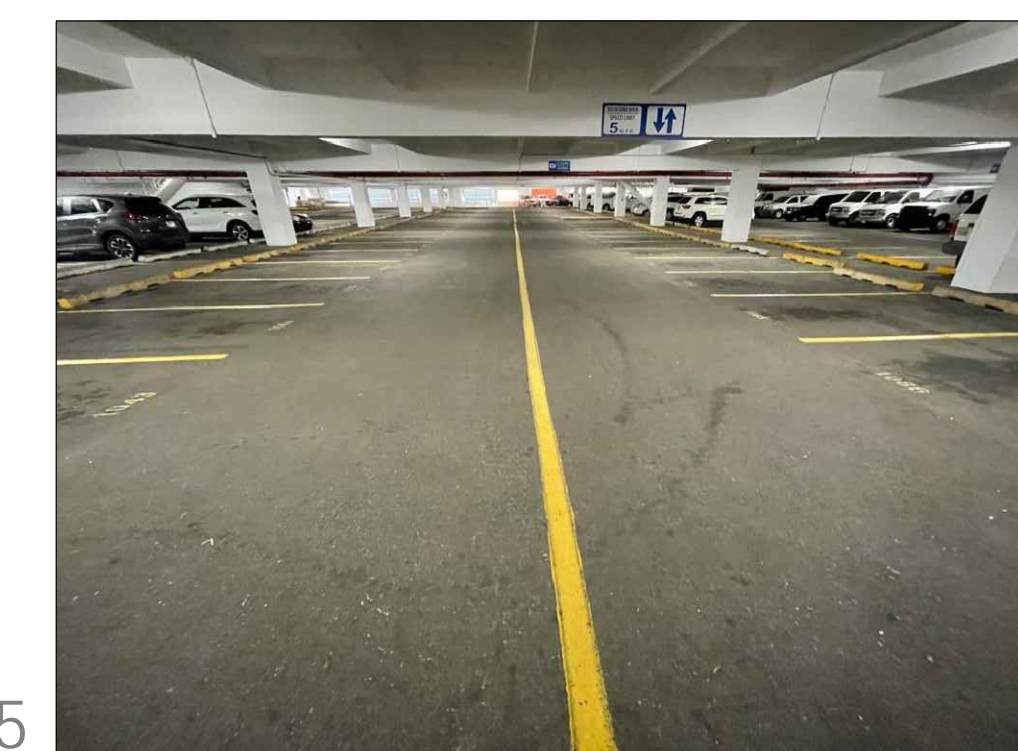
FIRE CONTROLS SYSTEMS TO BE PAINTED

IMAGE 4



EMERGENCY PARKING AREA

IMAGE 5



TYPICAL PARKING AREA

ADDRESS

268 AVE. MUÑOZ RIVERA  
SAN JUAN P.R.

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REVISIONS

REV. DATE DESCRIPTION BY CHK'D

REV.	DATE	DESCRIPTION	BY	CHK'D

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IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COST.

CERTIFICATION

I, WILLIAM MELENDEZ RIVERA, LIC. 14883 P.E., CERTIFY THAT I AM THE PROFESSIONAL WHO DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS FORMERLY WITH THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BODIES OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004 AS AMENDED KNOWN AS THE "LAW FOR INVESTMENT BY THE PRIVATE SECTOR INDUSTRY" AND WITH THE LAW NO. 319 OF MAY 15, 1928, AS AMENDED ACT NO. 54 OF JULY 8, 1928 AS AMENDED AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY NEGLIGENCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE ODEE.



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Plaza, San Juan, PR 00738  
Tel. (787) 918-5890 / 5891  
Email: info@ingenium.group

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FILE

Dwg Name: ESTACIONAMIENTO WORLD PLAZA GROUND.FG  
Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Reviewed by: Eng. W. Melendez Rivera #14883  
Plot Scale:  
Progress Print: May 11, 2022

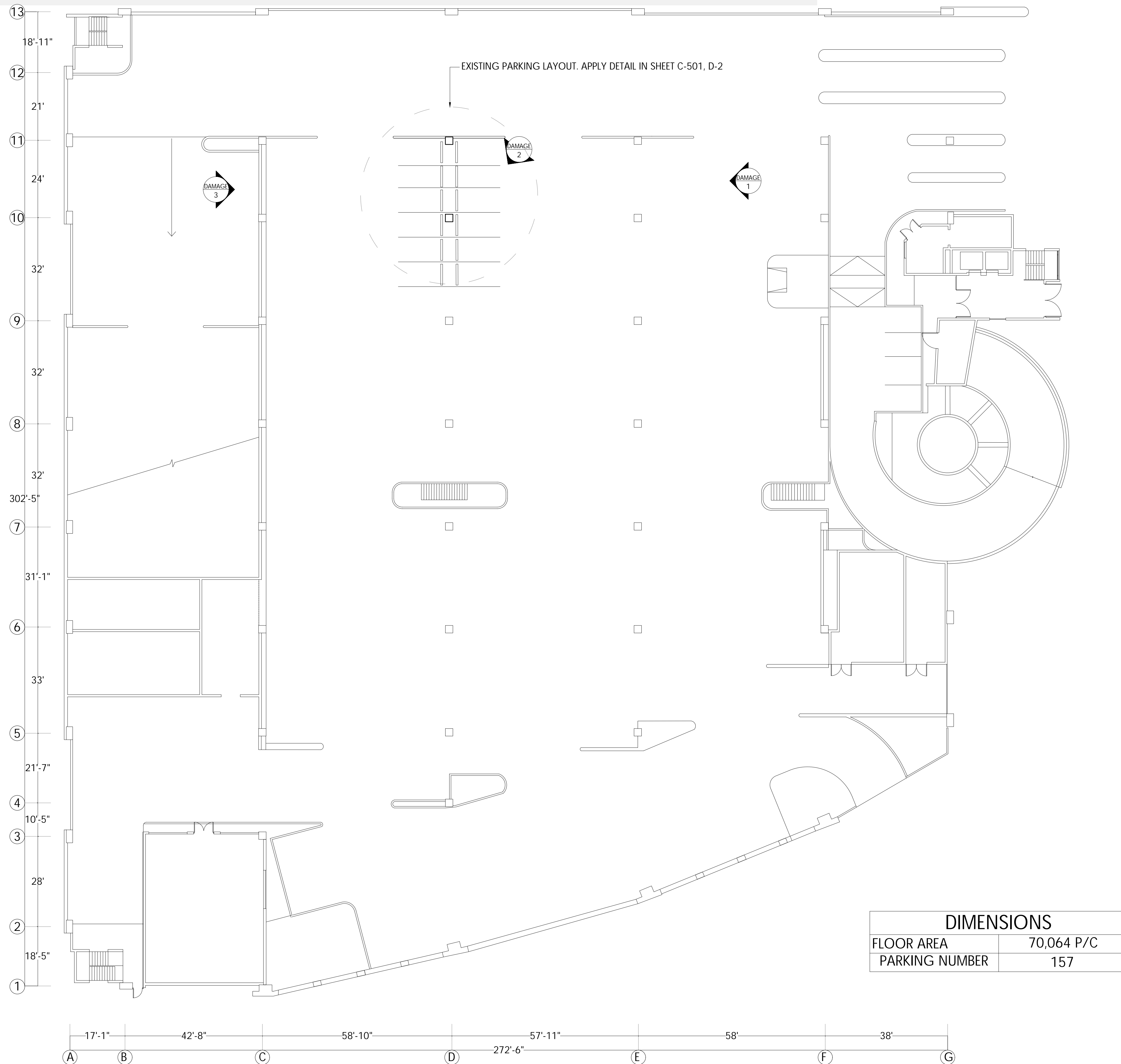
TITLE

PARKING AS-BUILT-FIRST LEVEL

DRAWING NO.

C-100





STRUCTURAL RECOMMENDATIONS - FIRST LEVEL

SCALE NTS

PHOTO DOCUMENTATION



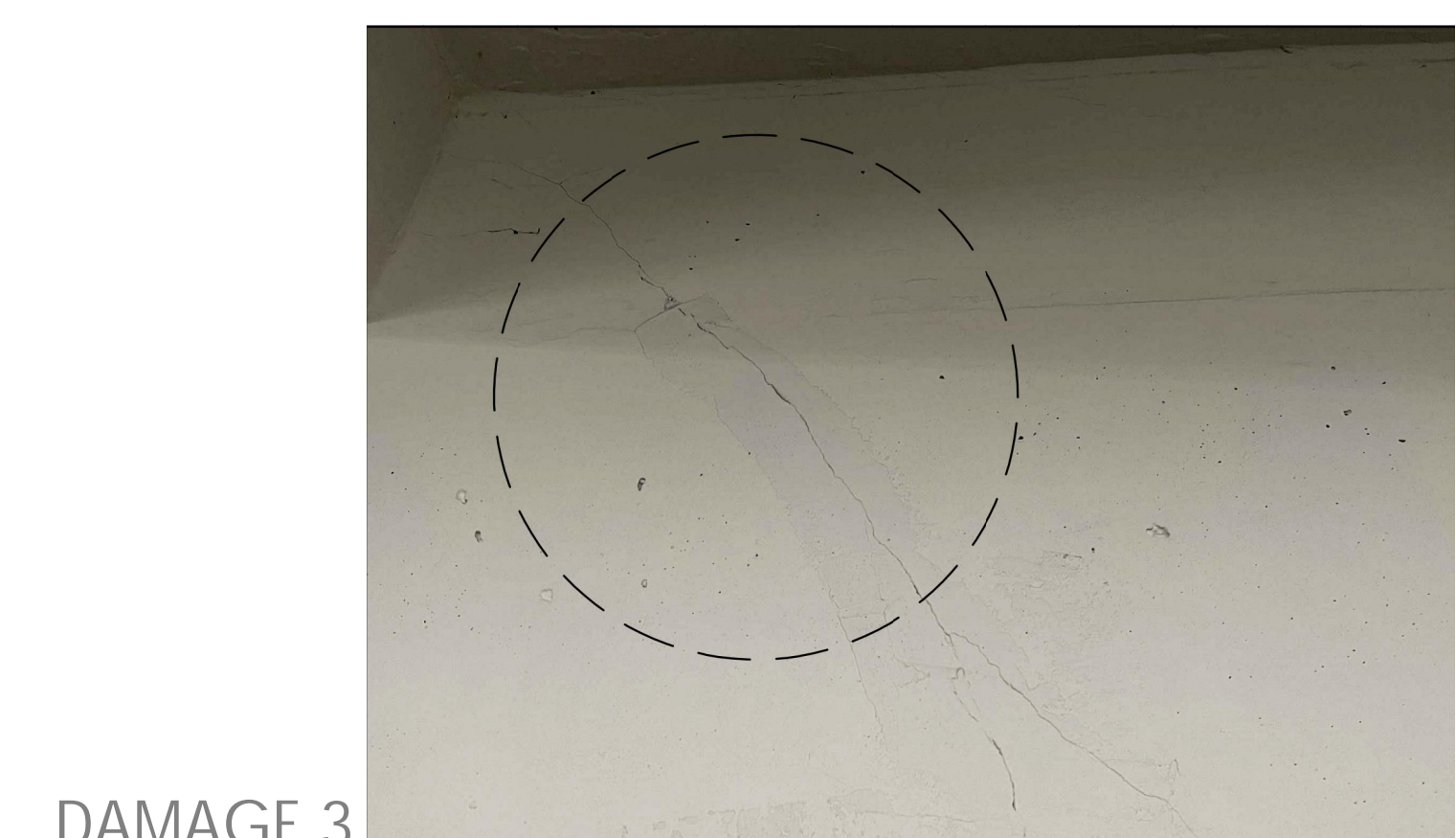
DAMAGE 1

CORROSION OF CONCRETE SLAB AT CORNER



DAMAGE 2

WHEEL-STOPS WITH INADEQUATE SUPPORT



DAMAGE 3

DIAGONAL CRACKING OF RC POST-TENSIONED BEAMS

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REV. DATE	DESCRIPTION	BY CHK'D

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CERTIFICATION

I, WILLIAM MELENDEZ RIVERA, LIC. 16838, CERTIFY THAT I AM THE PROFESSIONAL WHO DRAWE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE RELEVANT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE IN THE JURISDICTION OF THE ENGINEER. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004 AS AMENDED KNOWN AS THE "LAW FOR INVESTMENT BY THE PRIVATE SECTOR INDUSTRY" AND WITH THE LAW NO. 319 OF MAY 15, 1928, AS AMENDED, ACT NO. 54 OF DECEMBER 15, 1978 AS AMENDED AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PROVIDED BY CONTRACTOR OR NEGLIGENT EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE ODEE.



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SIGNATURE



RECOMMENDATIONS	
DAMAGE	DESCRIPTION
1	WHEN OCCURS, APPLY TABLE R606.2.8 AND PLASTERING RECOMMENDATION ON SHEET 502, DETAIL A-2
2	WHEN OCCURS, APPLY RECOMMENDATIONS ON SHEET C-501, DETAIL D-2
3	WHEN OCCURS, APPLY RECOMMENDATION ON SHEET 502, DETAIL A-8

GENERAL NOTES

- CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING PARKING LOT WITH 3500 PSI PRESSURE WASHING PRIOR TO CORRECTION OF CRACKS AND APPLICATION OF NEW PRODUCT
- PLACE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION SUPPLEMENT TO THE MUTCD.
- PARKING LINE SHALL BE 4" WIDE AND PAINTED WITH REFLECTORIZED YELLOW TRAFFIC PAINT, WITH FINISHED APPLICATIONS NOT LESS THAN 3 MLS DRY THICKNESS. HANDICAPPED PARKING LINES & SYMBOL SHALL BE PAINTED BLUE.

FILE

Dwg Name: ESTACIONAMIENTO WORLD PLAZA GROUP.PG  
Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Revised by: Eng. W. Melendez Rivera #16838  
Plot Scale:  
Progress Print: May 11, 2022

TITLE

STRUCTURAL RECOMMENDATIONS-FIRST LEVEL

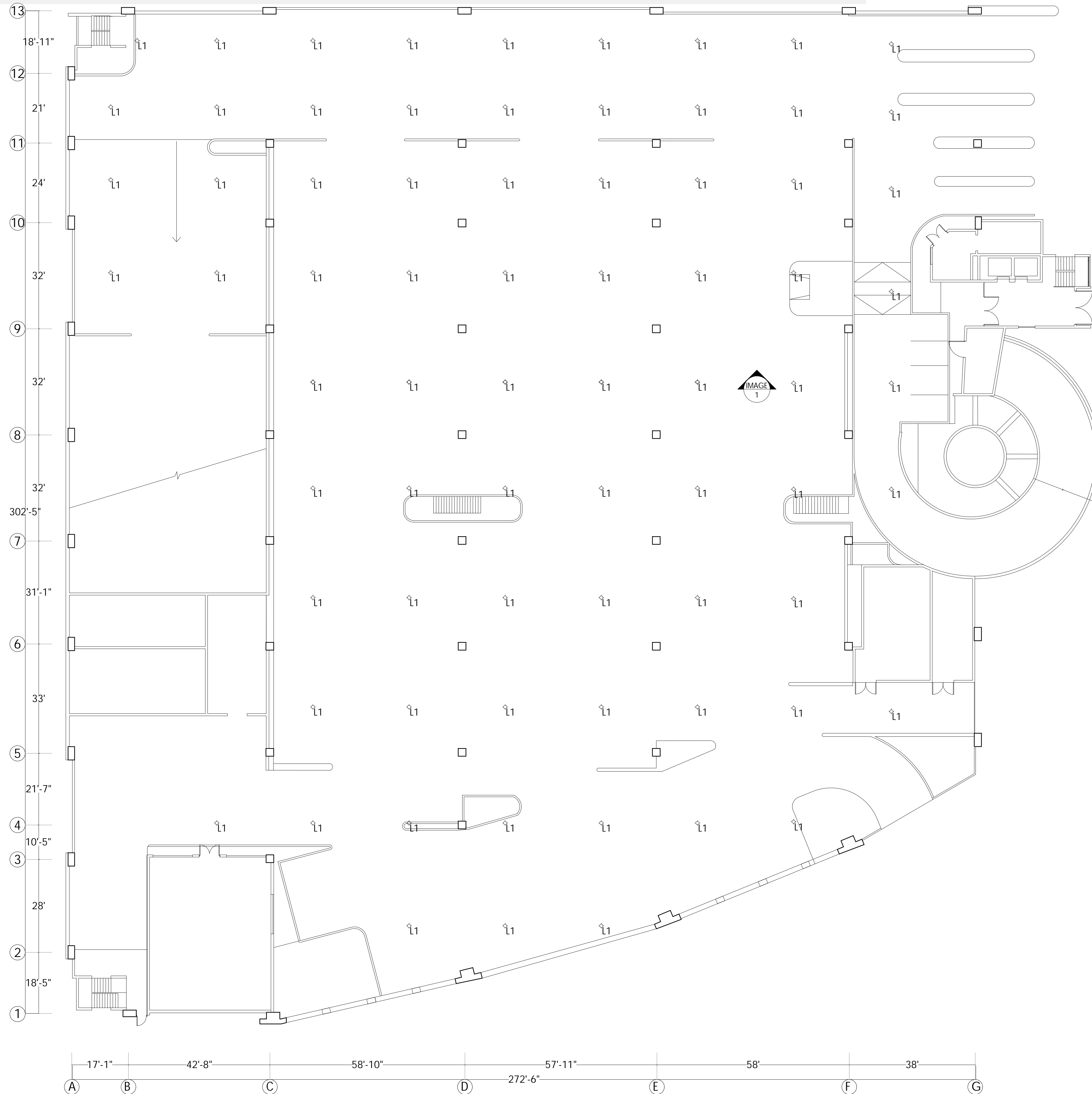
DRAWING NO.

A-100

PAGE: 3/30



FIRST LEVEL EXISTING LIGHTING - WORLD PLAZA PARKING LOT IMPROVEMENT



LEGEND			
TYPE	CONDITION	QTY	DESCRIPTION
	EXISTING LIGHTING	73	EXISTING LIGHTING

PHOTOGRAPHIC DOCUMENTATION

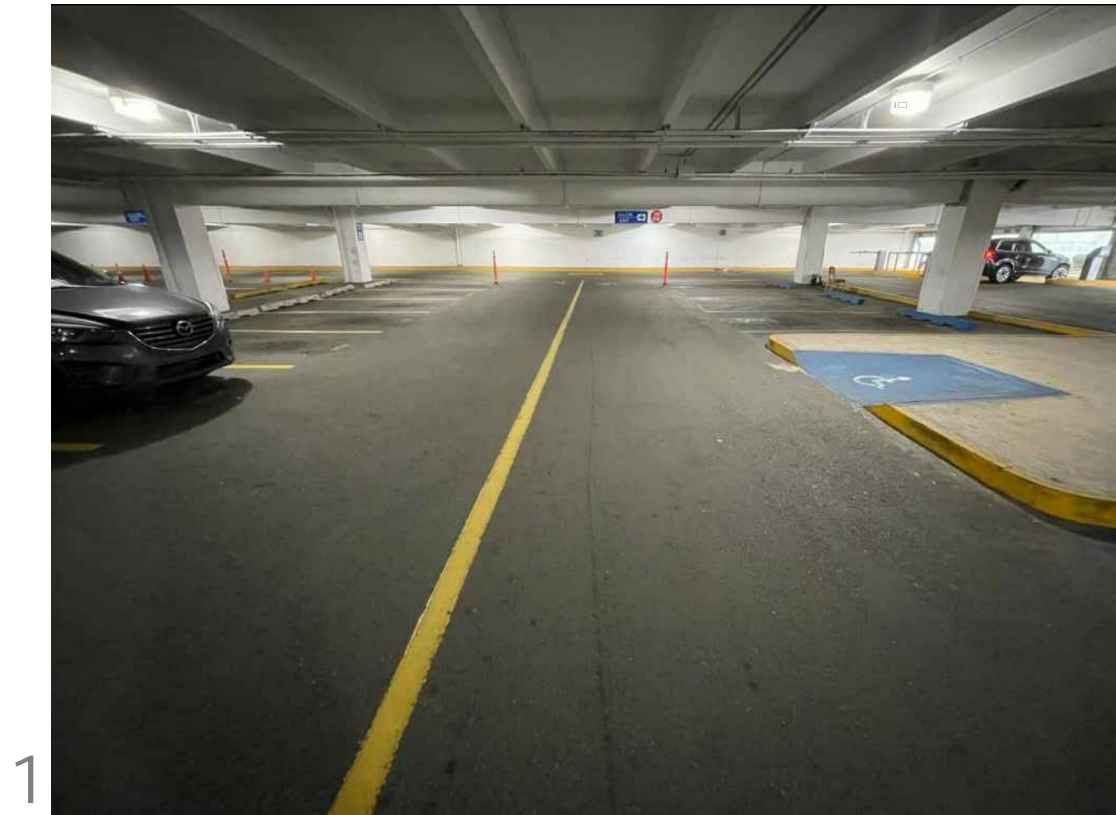


IMAGE 1

EXISTING LIGHTING

GENERAL NOTES

1. LIGHTING REPLACEMENT WORK INCLUDES THE REMOVAL AND DISPOSAL OF EXISTING LIGHTS.
2. THE INTERIOR LIGHTING WILL BE REPLACED BY LAMPS OF THE LED SYSTEM, WITH DIMENSIONS OF 2'X4" AND 4 TUBES WITH "ELECTRONIC BALLAST" AND USE A PRODUCT EQUAL OR SIMILAR TO LITHONIA LIGHTING, "WRAP AROUND" 2'X4".
3. IT MUST BE VERIFIED THAT THE PHOTOCELLS ARE WORKING CORRECTLY. THE INSTALLATION OF PHOTOCELLS MUST BE PROVIDED IN ALL CORRIDOR LAMPS.
4. OUTDOOR SPOTLIGHT IP-66.
5. THE DIAGRAM OF THE CIRCUITS, LOCATION OF SWITCHES AS WELL AS THE LOCATION OF THE PROPOSED LAMPS INDICATED ON THE PLANS IS MERELY DIAGRAMMATICAL AND APPROXIMATE. THE EXACT LOCATION OF THE PIPING AND OTHER ELECTRICAL INSTALLATIONS WILL BE SUBJECT TO THE STRUCTURAL AND CONSTRUCTION CONDITIONS, THEY WILL BE CONNECTED TO THE MAIN BOARD. CONTRACTOR SHOULD SUBMIT SHOP DRAWINGS OF ELECTRICAL CONNECTIONS TO DESIGNER FOR APPROVAL PREVIOUSLY RECOMMENDED BY AN ELECTRICIAN.

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REVISIONS  
REV. DATE DESCRIPTION BY CHK'D

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**IPG INGENIUM**  
PROFESSIONAL GROUP PSC  
654 Ave. Muñoz Rivera - Suite 1838 - 654  
Plaza, San Juan, PR 00738  
Tel. (787) 918-5890 / 5891  
Email: info@ingenium.group

SIGNATURE



FILE  
Dwg Name: ESTACIONAMIENTO WORLD PLAZA GROUND.DWG  
Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Revised by: Eng. W. Melendez Rivas #16383  
Plot Scale:  
Progress Print: May 11, 2022

TITLE

EXISTING LIGHTING- FIRST LEVEL

DRAWING NO.  
E-100

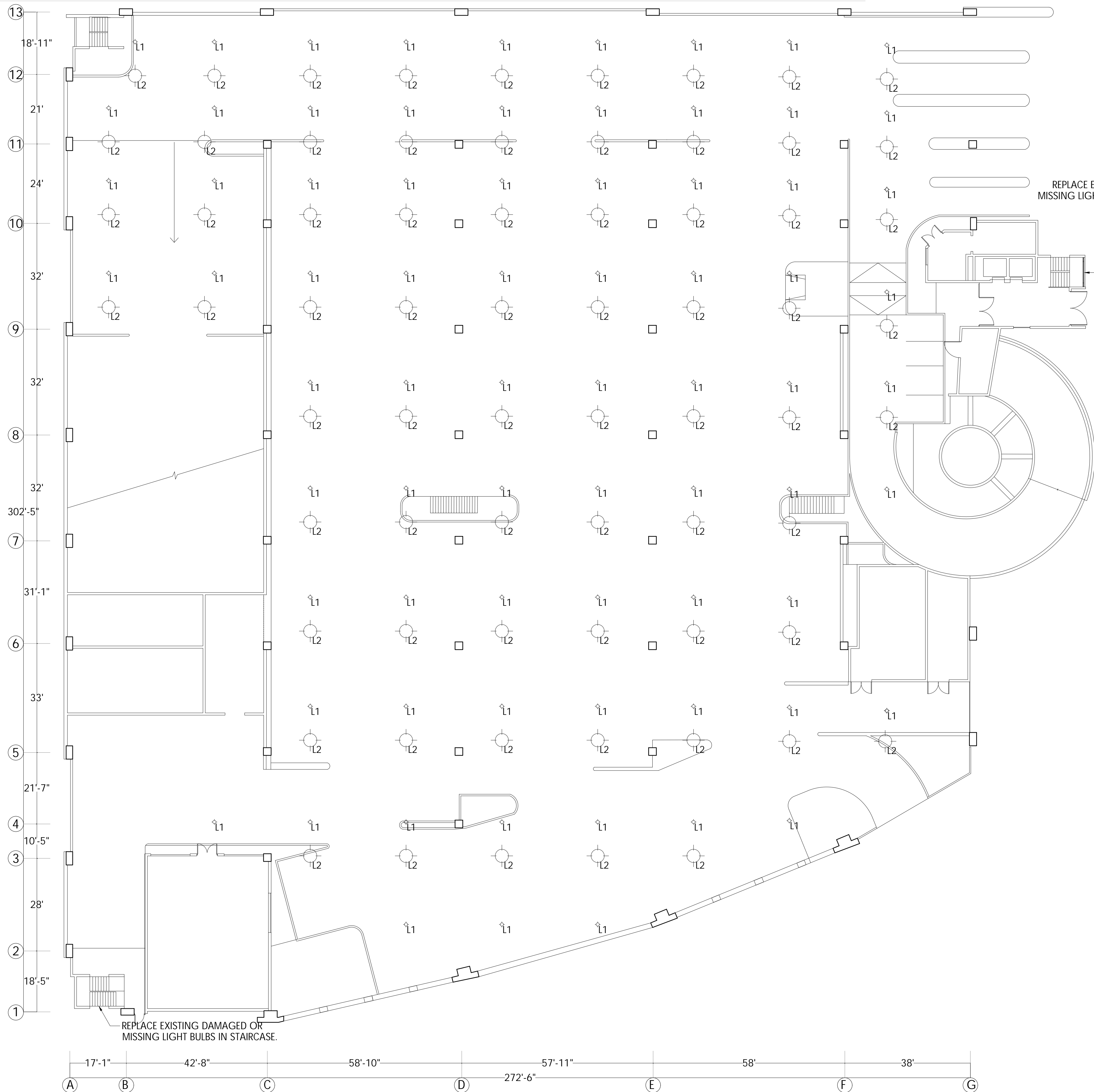
PAGE: 4/30

EXISTING LIGHTING- FIRST LEVEL

SCALE NTS



FIRST LEVEL PROPOSED LIGHTING AND RECOMMENDATIONS - WORLD PLAZA PARKING LOT IMPROVEMENT



LEGEND			
TYPE	CONDITION	QTY	DESCRIPTION
L1	EXISTING LIGHTING	73	EXISTING LIGHTING
L2	PROPOSED LIGHTING	67	EVOLVE LED GARAGE LIGHT

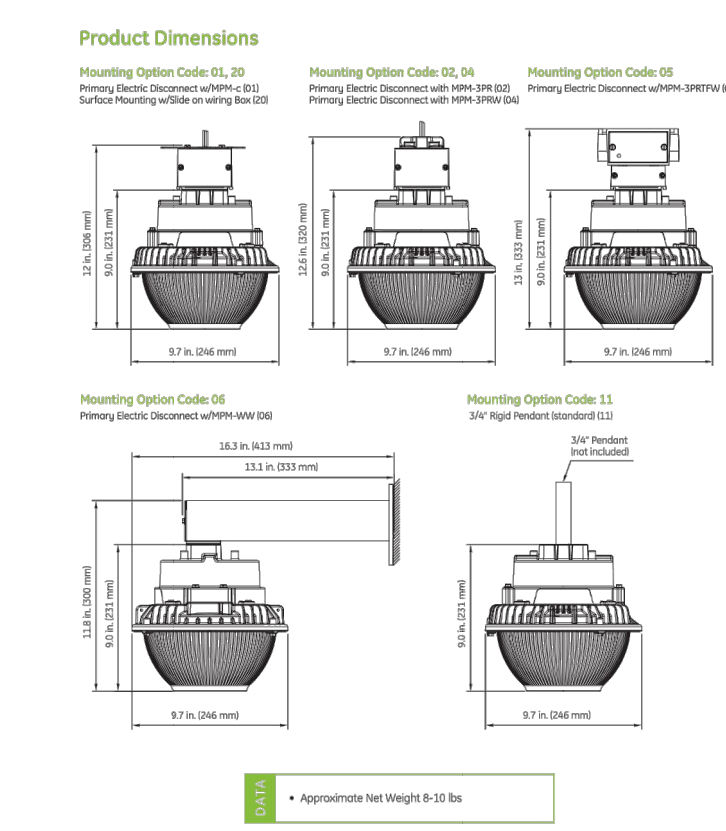
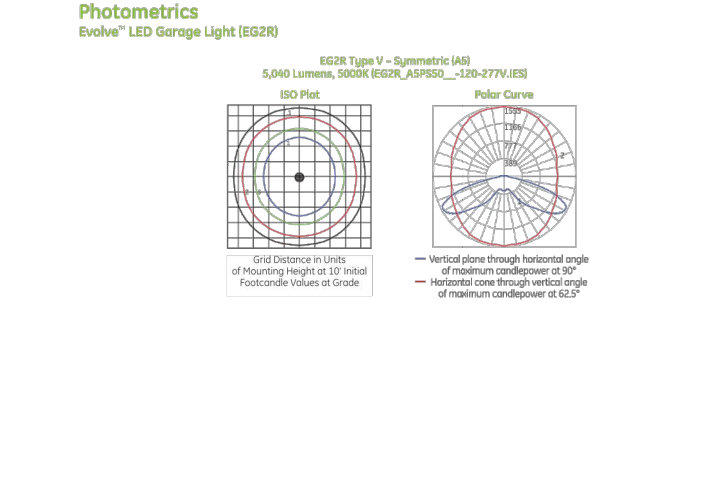
GE Lighting

Evolve™ LED Garage Light (EG2R)



**Ordering Number Logic**  
Evolve™ LED Garage Light (EG2R)

Part Number	Color	Finish	Mounting	Options
EG2R-0-AS-P-S	White	White	Surface Mount	None



**Product Features**  
High quality lighting meets long life and consistency with the Evolve™ LED Garage Light, EG2R. This fixture features an advanced LED chip design that provides uniform light distribution with reduced glare. Illuminating your parking lot with effective lighting is a must.

**Applications:** Garage, warehouse, walkway and stairway lighting.

**Mounting:** Available with seven different mounting options providing a versatile product to meet almost any facility installation condition.

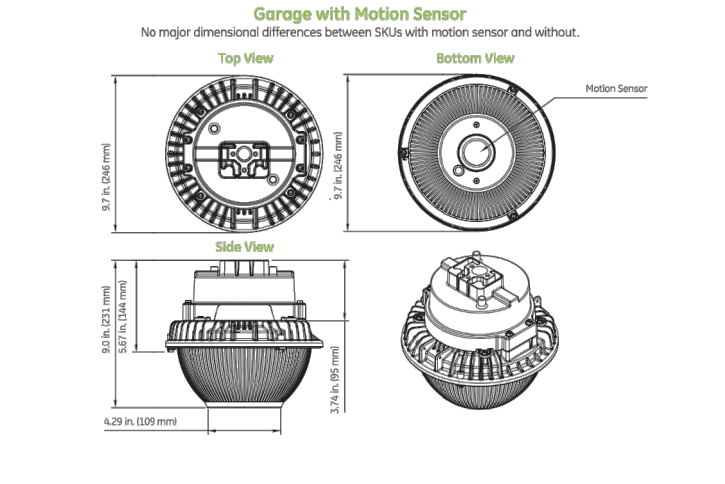
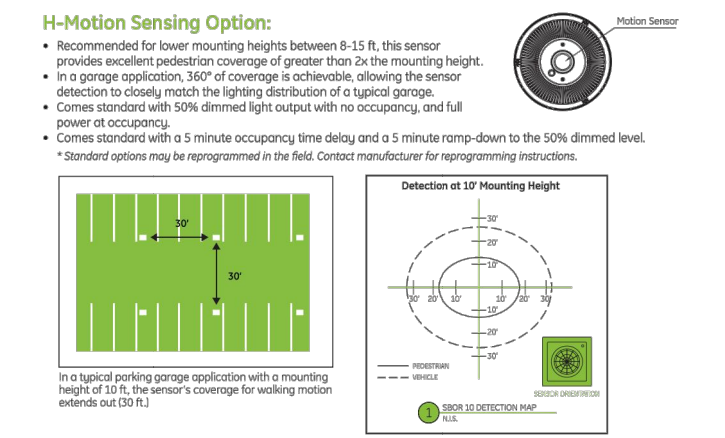
**Finish:** Corrosion resistant polyester powder painted, resistant to UV radiation.

**LED & Optics Assembly:** Available high output assembly of reflective technology designed to optimize application efficiency and produce a long-term lighting solution.

**Electrical:** 120-277 volt, 50/60 Hz, 150W max, 100W max, 100W max, 100W max.

**Roatings:** Projected 170,000+ hours at 25°C per IES TM-21.

**Dimensions:** 12.5" H x 12.5" W x 12.5" D.



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REV.	DATE	DESCRIPTION	BY	CHK'D

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Tel. (787) 918-5890 / 5891  
Email: info@ingeniumgroup.com

SIGNATURE

FILE  
Dwg Name: ESTACIONAMIENTO WORLD PLAZA GROUND.dwg  
Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Revised by: Erg. W. Meléndez Rivas # 16383  
Plot Scale:  
Progress Print: May 11, 2022

TITLE  
PROPOSED LIGHTING-FIRST LEVEL

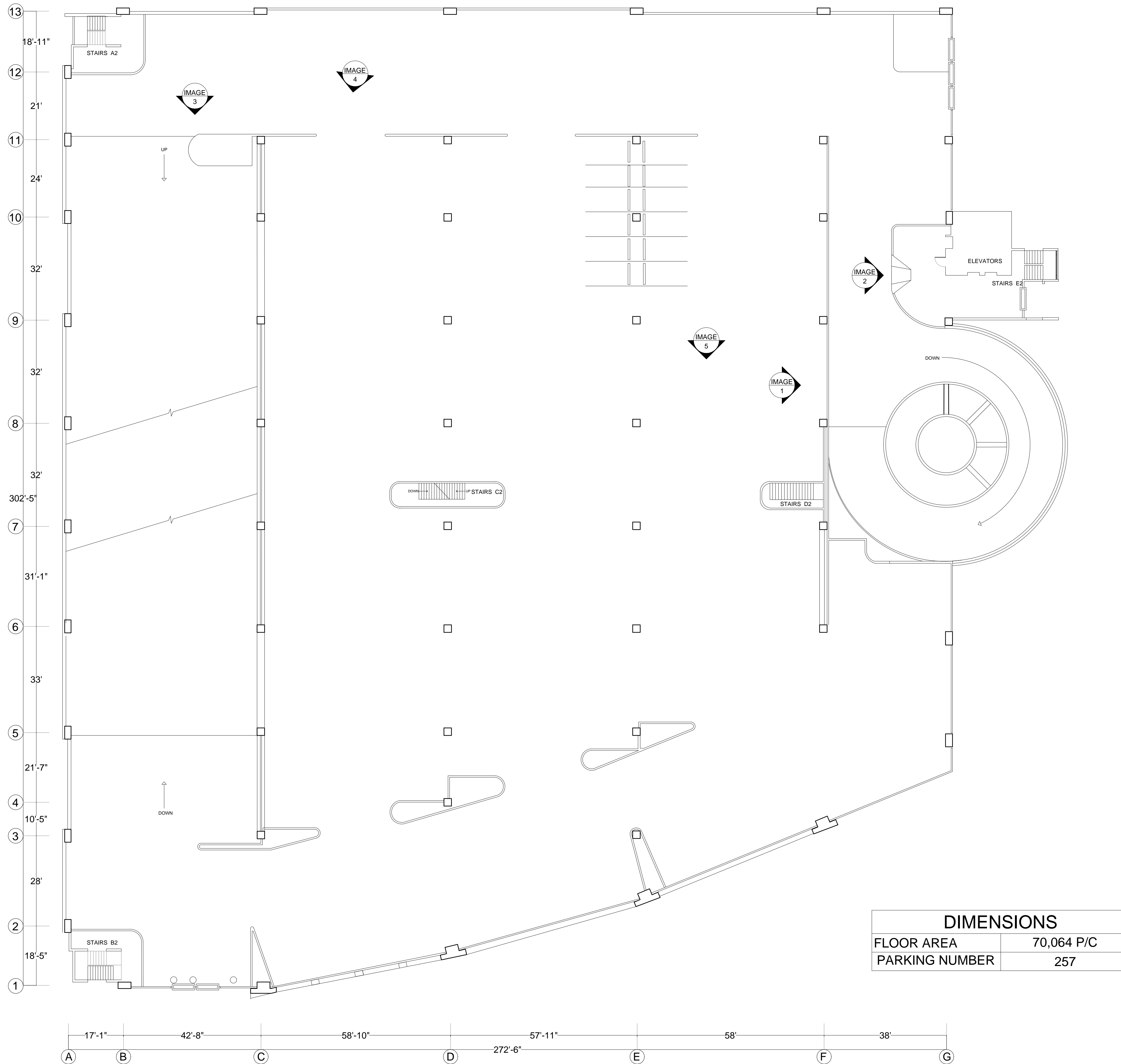
DRAWING NO.  
E-101

PAGE: 5/30

PROPOSED LIGHTING -FIRST LEVEL

SCALE NTS





DIMENSIONS	
FLOOR AREA	70,064 P/C
PARKING NUMBER	257

PARKING AS-BUILT-SECOND LEVEL

SCALE NTS

PHOTO DOCUMENTATION

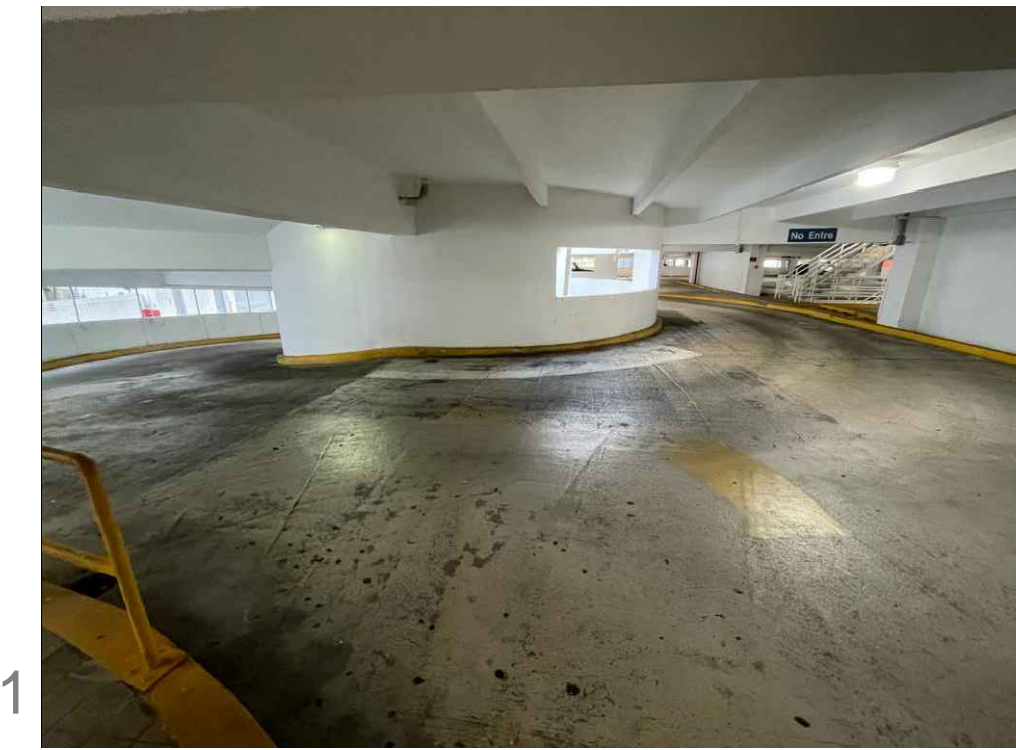


IMAGE 1

TYPICAL PARKING AREA

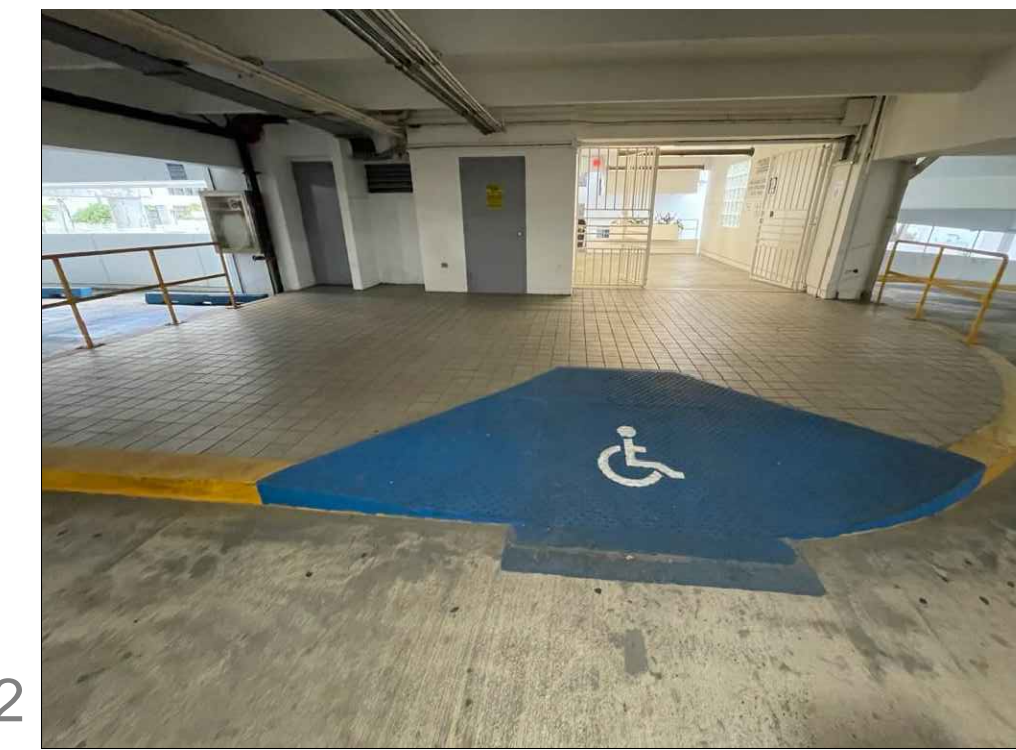


IMAGE 2

TYPICAL ADA CURB RAMP PAINT REQUIREMENT

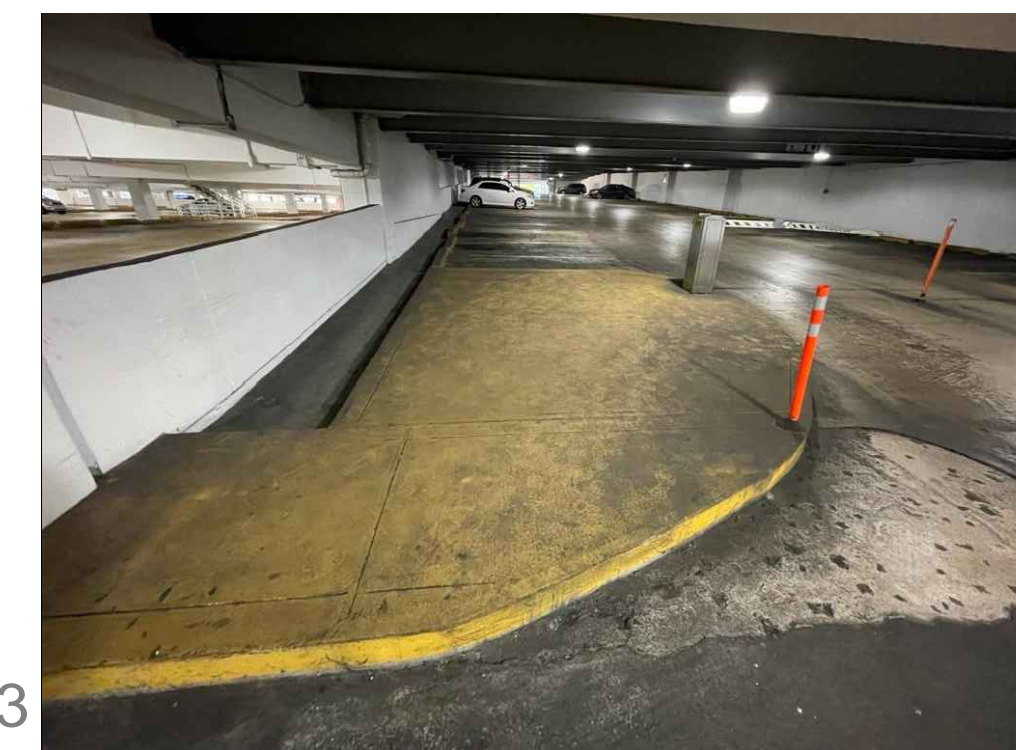


IMAGE 3

TYPICAL CURB PAINT REQUIREMENT

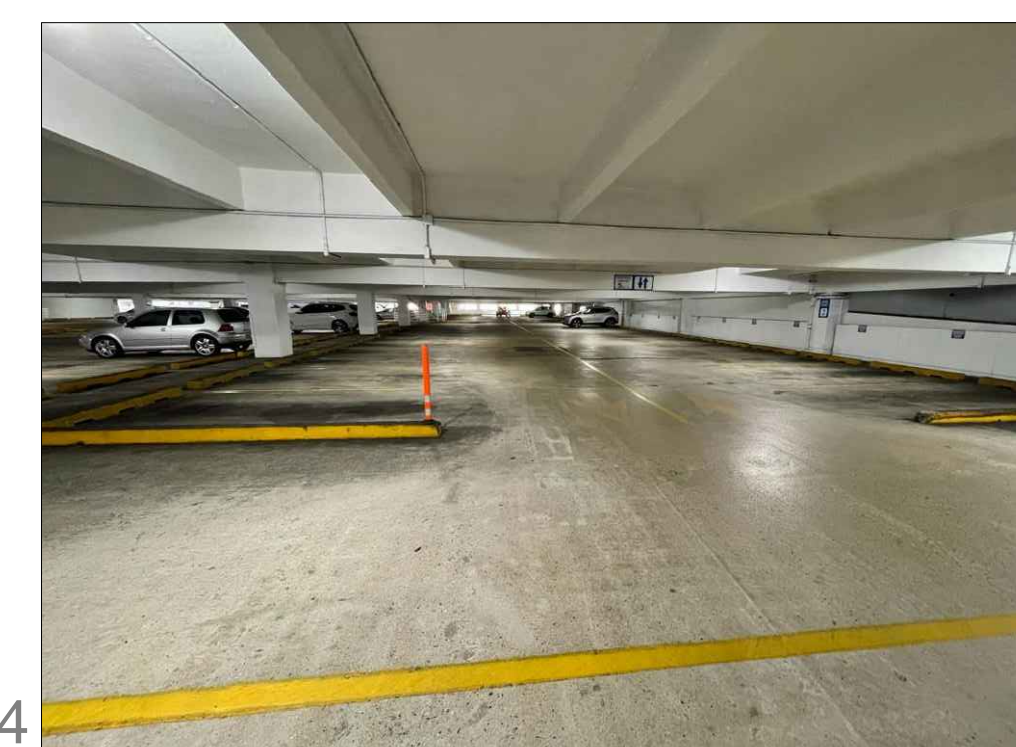


IMAGE 4

TYPICAL PARKING AREA

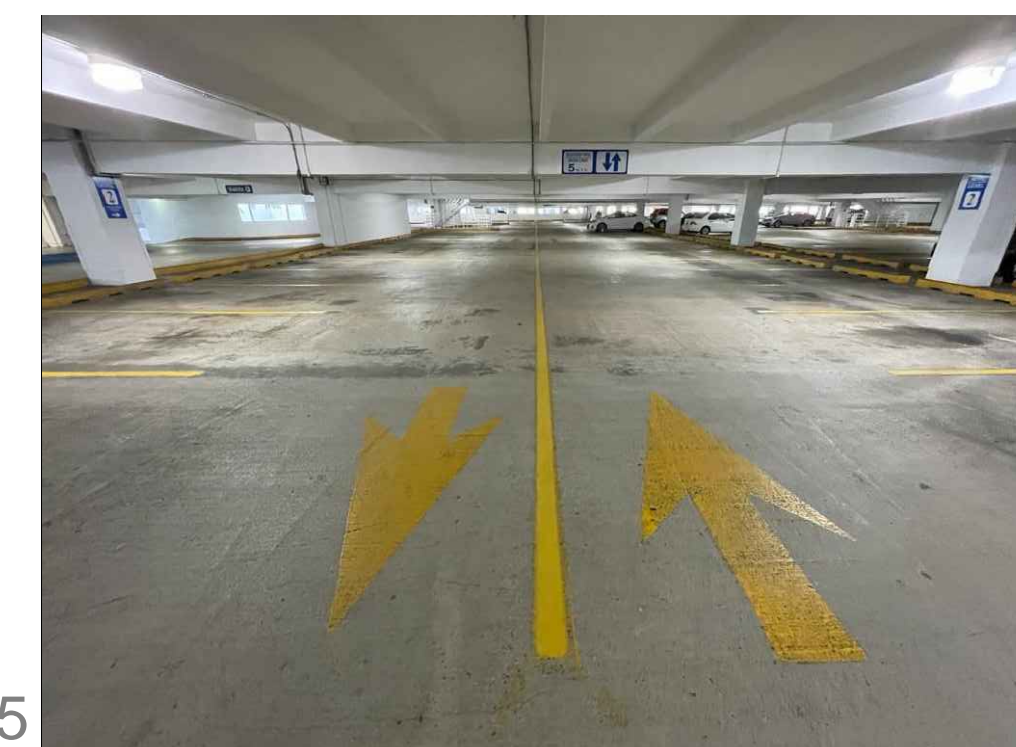


IMAGE 5

TYPICAL PARKING AREA

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REV. DATE DESCRIPTION BY CHK'D

REV.	DATE	DESCRIPTION	BY	CHK'D

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SIGNATURE



FILE

Dwg Name: WEL249  
Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Revised by: Eng. W. Melendez Rivas #16383  
Plot Scale:  
Progress Print: May 11, 2022

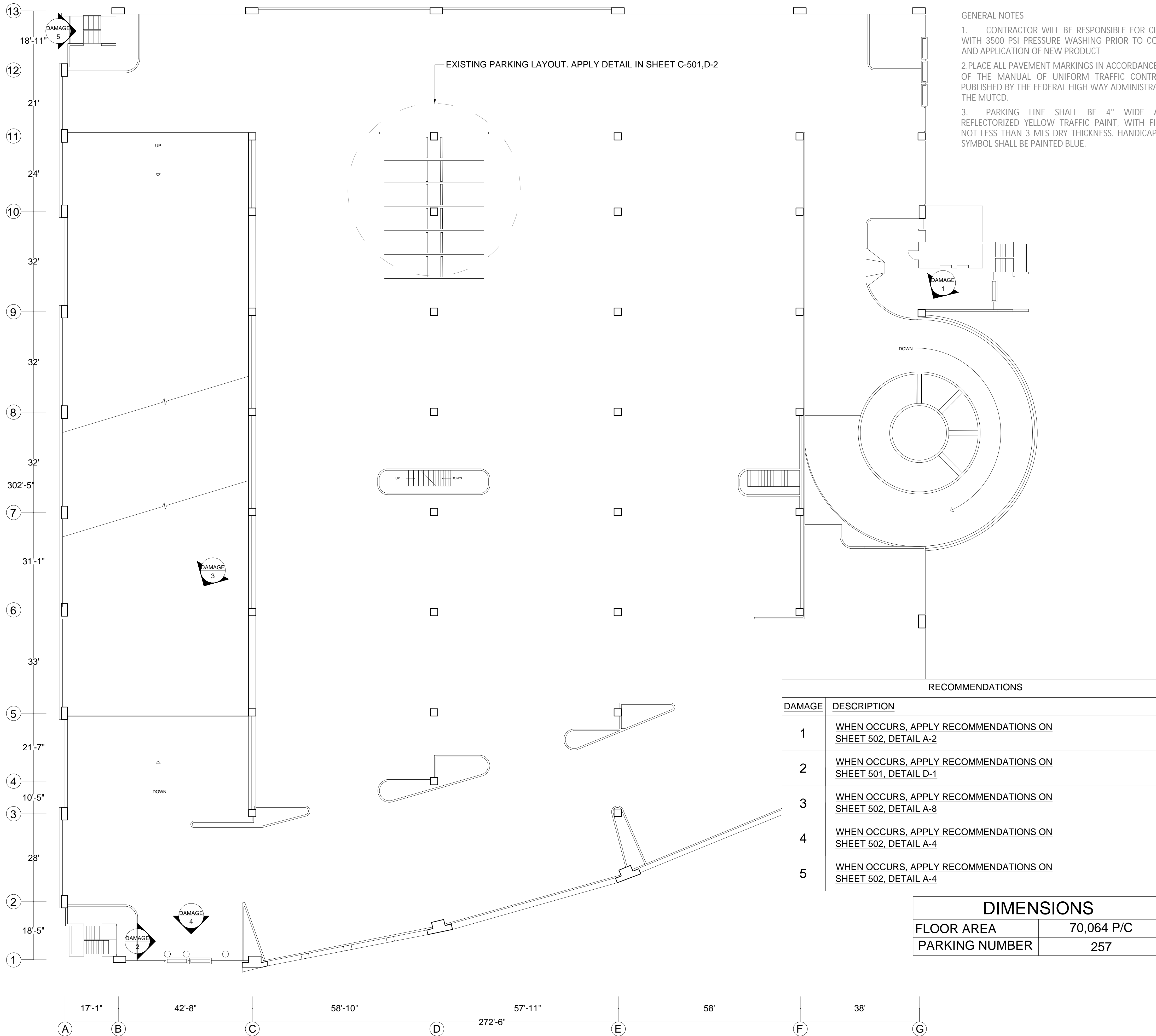
TITLE

PARKING AS-BUILT - SECOND LEVEL

DRAWING NO.

C-101

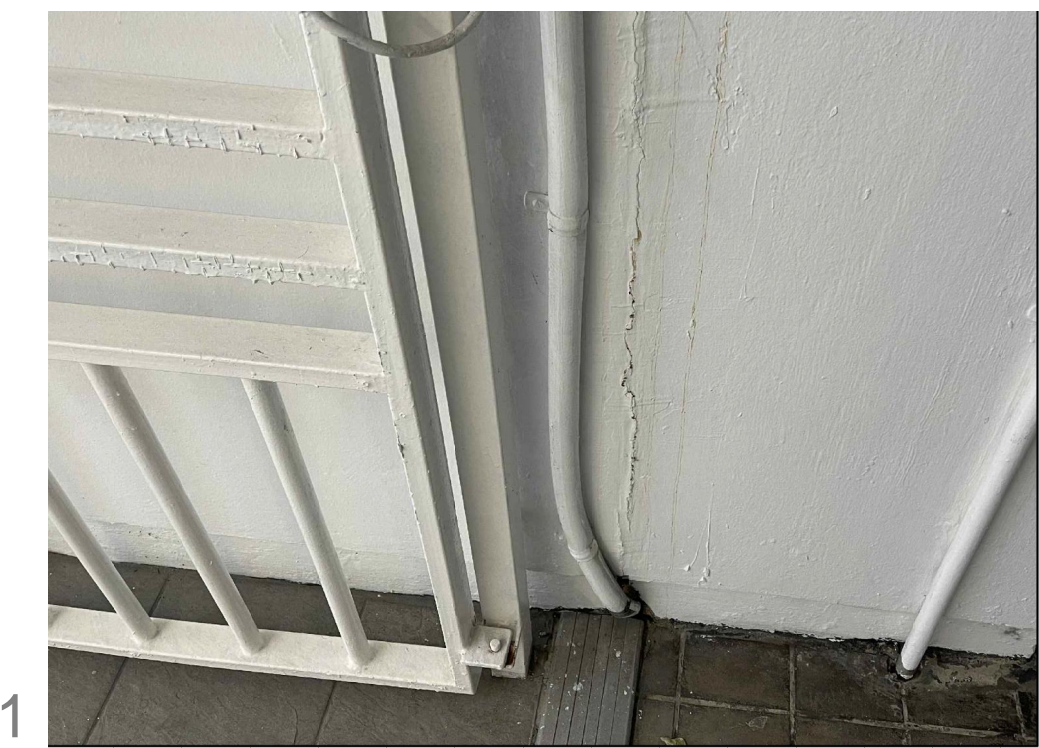




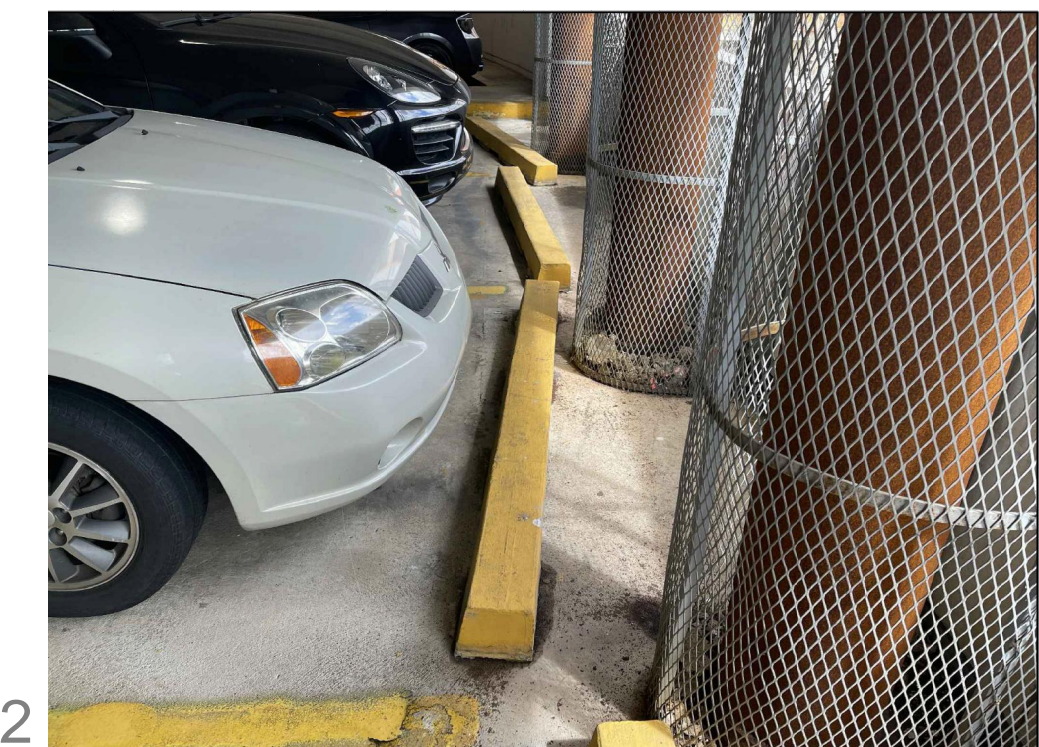
STRUCTURAL RECOMMENDATIONS-SECOND LEVEL

SCALE NTS

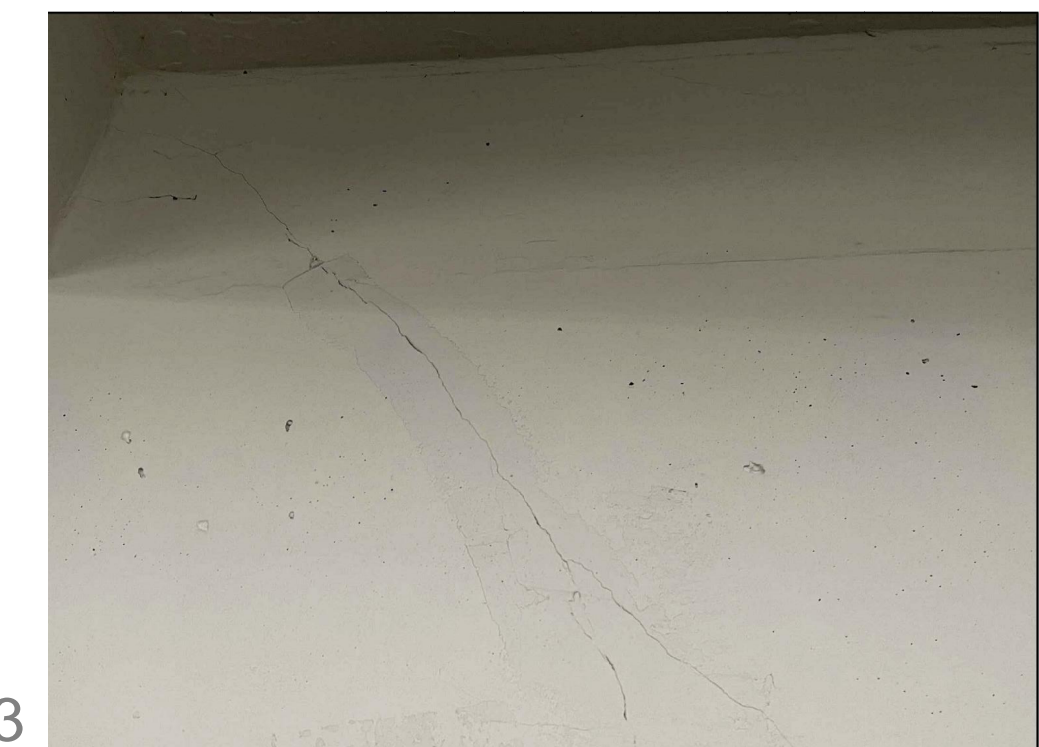
PHOTO DOCUMENTATION



EXPANSION JOINT WITH INADEQUATE SPACE



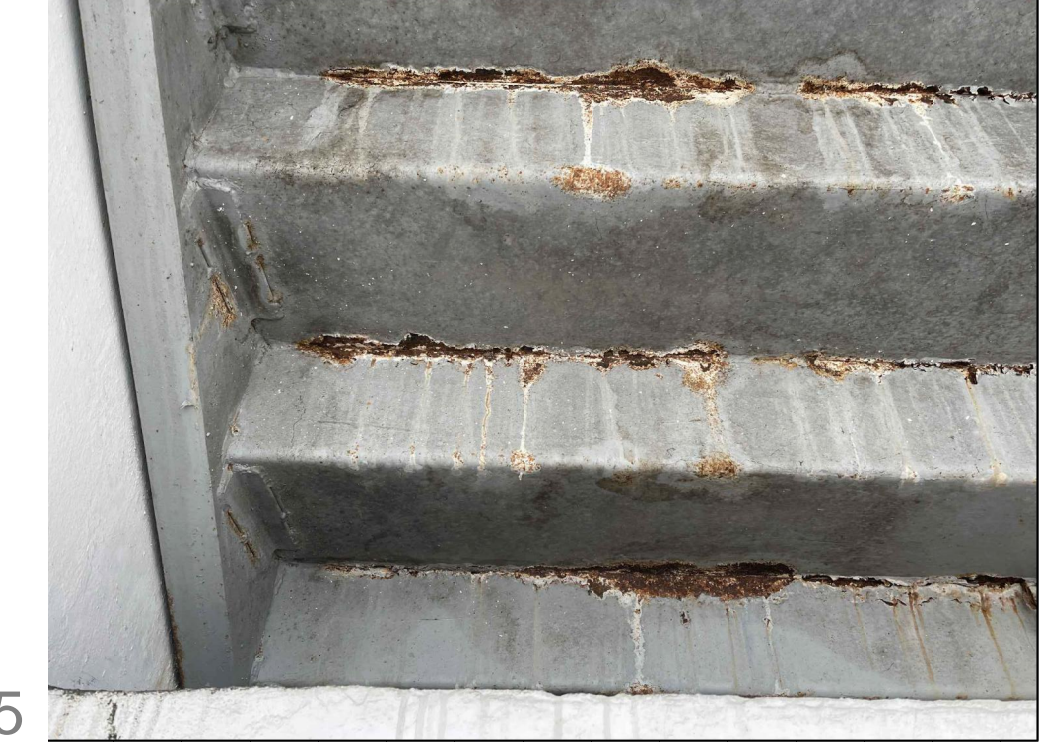
WHEEL-STOP WITH INADEQUATE SUPPORT



DIAGONAL CRACK OF POST-TENSIONED BEAMS AT RAMP



CORROSION CAUSED BY THREE EXHAUST PIPES AT EAST FACADE



CORROSION IN BEAM OF STAIR AT SOUTH-WEST CORNER

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REV.	DATE	DESCRIPTION	BY CHK'D

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK

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IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELÉNDEZ RÍVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO DRAWE, DESIGNED OR PREPARED THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 142008, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICO INDUSTRY" AND WITH THE LAW NO. 319 OF MAY 15, 1998, AS AMENDED ACT NO. 96 OF JULY 6, 1978 AS AMENDED AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY KNOWLEDGE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE DUE.



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SIGNATURE



FILE

Dwg Name: WML249g  
Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Revised by: Eng. W. Meléndez Rivas #16383  
Plot Scale:  
Progress Print: May 11, 2022

TITLE

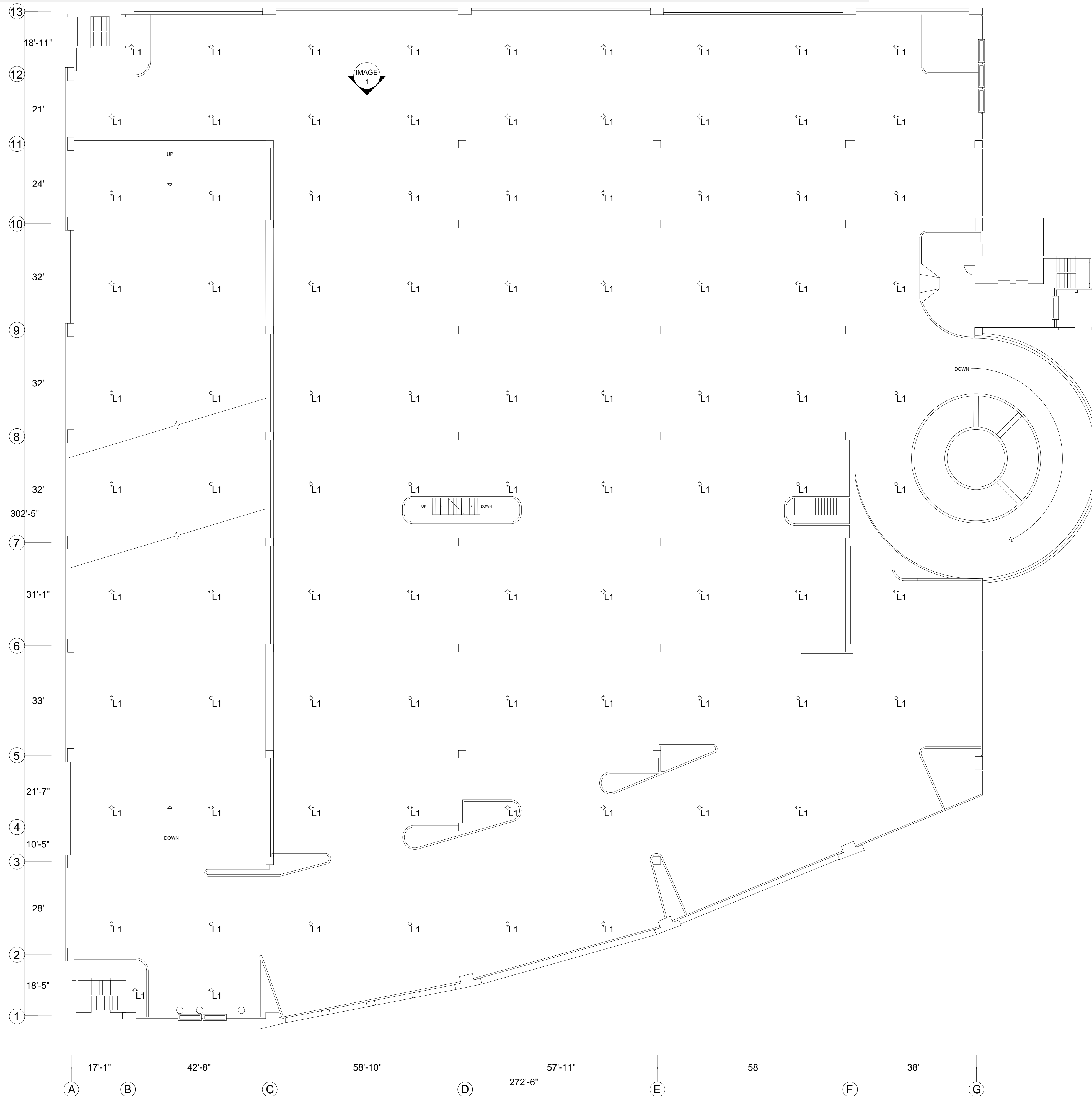
STRUCTURAL RECOMMENDATIONS - SECOND LEVEL

DRAWING NO.

A-101



SECOND LEVEL EXISTING LIGHTING - WORLD PLAZA PARKING LOT IMPROVEMENT



LEGEND			
TYPE	CONDITION	QTY	DESCRIPTION
L1	EXISTING LIGHTING	88	EXISTING LIGHTING

ADDRESS

268 AVE. MUÑOZ RIVERA  
SAN JUAN P.R.

OWNER

PODER JUDICIAL

REGISTER NO.

0 6 3 - 0 3 1 - 6 3 9 - 0 2

REVISIONS

REV. DATE DESCRIPTION BY CHK'D

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PHOTO DOCUMENTATION

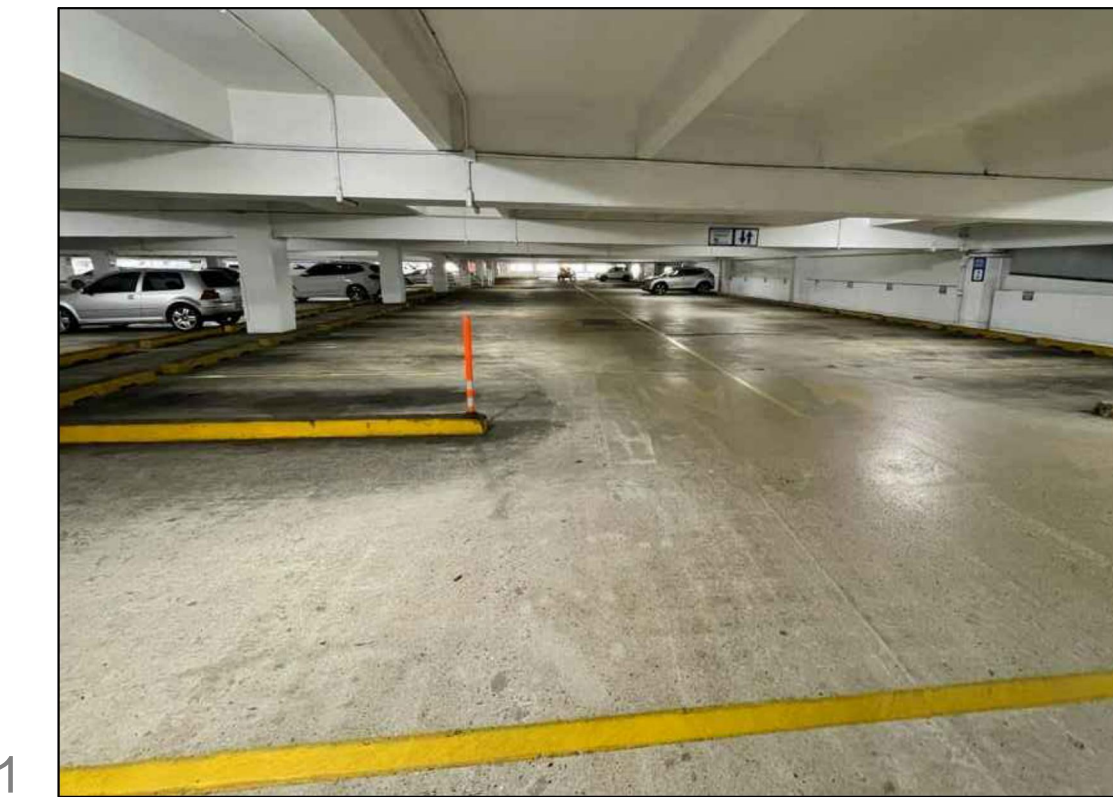


IMAGE 1

EXISTING LIGHTING

GENERAL NOTES

1. LIGHTING REPLACEMENT WORK INCLUDES THE REMOVAL AND DISPOSAL OF EXISTING LIGHTS.
2. THE INTERIOR LIGHTING WILL BE REPLACED BY LAMPS OF THE LED SYSTEM, WITH DIMENSIONS OF 2'X4' AND 4 TUBES WITH "ELECTRONIC BALLAST" AND USE A PRODUCT EQUAL OR SIMILAR TO LITHONIA LIGHTING, "WRAP AROUND" 2'X4'.
3. IT MUST BE VERIFIED THAT THE PHOTOCELLS ARE WORKING CORRECTLY. THE INSTALLATION OF PHOTOCELLS MUST BE PROVIDED IN ALL CORRIDOR LAMPS.
4. OUTDOOR SPOTLIGHT IP-66.
5. THE DIAGRAM OF THE CIRCUITS, LOCATION OF SWITCHES AS WELL AS THE LOCATION OF THE PROPOSED LAMPS INDICATED ON THE PLANS IS MERELY DIAGRAMICAL AND APPROXIMATE. THE EXACT LOCATION OF THE PIPING AND OTHER ELECTRICAL INSTALLATIONS WILL BE SUBJECT TO THE STRUCTURAL AND CONSTRUCTION CONDITIONS, THEY WILL BE CONNECTED TO THE MAIN BOARD. CONTRACTOR SHOULD SUBMIT SHOP DRAWINGS OF ELECTRICAL CONNECTIONS TO DESIGNER FOR APPROVAL PREVIOUSLY RECOMMENDED BY AN ELECTRICIAN.

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCEMENT OF THE WORK.

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CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCED TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELÉNDEZ RÍVAS, E.E. INGENIERO, CERTIFY THAT I AM THE PROFESSIONAL WHO (DRAWE, DESIGNED OR PREPARED) THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW NO. 2008, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE LAWS NO. 319 OF MAY 15, 1988, AS AMENDED, ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY NEGLIGENCE OR RECKLESSNESS EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGP.



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Email: info@ingenium.group

SIGNATURE



FILE

Dwg Name: WEL 2.dwg

Drawn by: INGENIUM PROFESSIONAL GROUP PSC

Revised by: Eng. W. Meléndez Rivas #16383

Plot Scale:

Progress Print: May 11, 2022

TITLE

EXISTING LIGHTING-SECOND LEVEL

DRAWING NO.

E-103

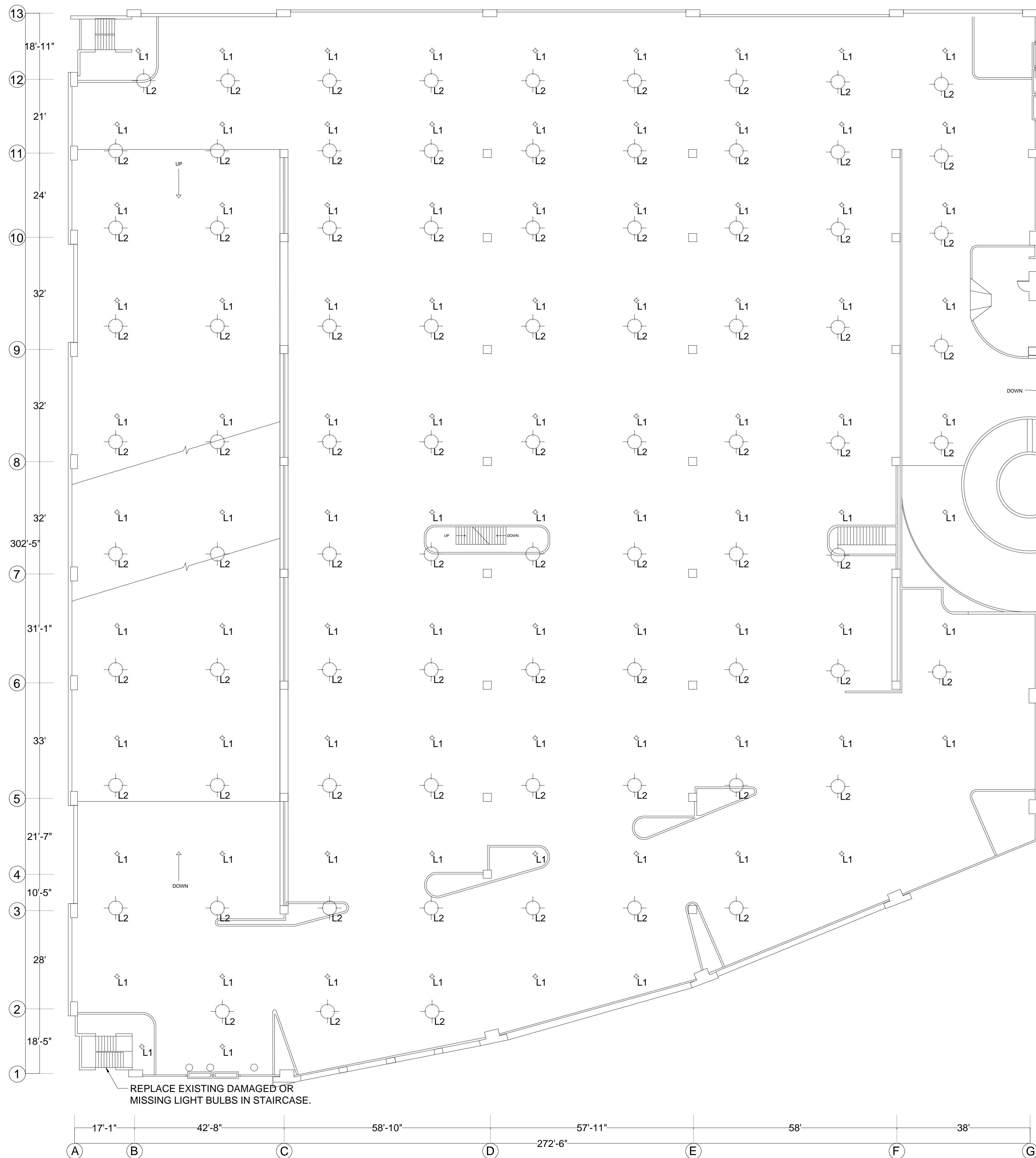
PAGE: 8/30

EXISTING LIGHTING-SECOND LEVEL

SCALE NTS



SECOND LEVEL PROPOSED LIGHTING - WORLD PLAZA PARKING LOT IMPROVEMENT



LEGEND			
TYPE	CONDITION	QTY	DESCRIPTION
L1	EXISTING LIGHTING	88	EXISTING LIGHTING
L2	PROPOSED LIGHTING	80	EVOLVE LED GARAGE LIGHT

ADDRESS  
268 AVE. MUÑOZ RIVERA  
SAN JUAN P.R.

OWNER  
PODER JUDICIAL

REGISTER NO.  
0 6 3 - 0 3 1 - 6 3 9 - 0 2

REVISIONS

REV. DATE DESCRIPTION BY CHK'D

IMPORTANT NOTES TO THE CONTRACTOR:  
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CERTIFICATION  
I, WILLIAM MELANDEZ RIVERA, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMPENSATORY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JUNE REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE. OF THE AGENCIES, REGULATORY BOARDS, OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 19-2001, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE LAW NO. 39 OF MAY 15, 1938, AS AMENDED BY ACT NO. 96 OF JULY 6, 1978, AS AMENDED AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY NEGLIGENCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE GPE.



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Tel. (787) 918-5890 / 5891  
Email: info@ingeniumgroup.com

SIGNATURE



FILE

Dwg Name: WEL2.dwg  
Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Revised by: Erg. W. Melendez Rivas #16383  
Plot Scale:  
Progress Print: May 11, 2022

TITLE

PROPOSED LIGHTING - SECOND LEVEL

DRAWING NO.  
E-104

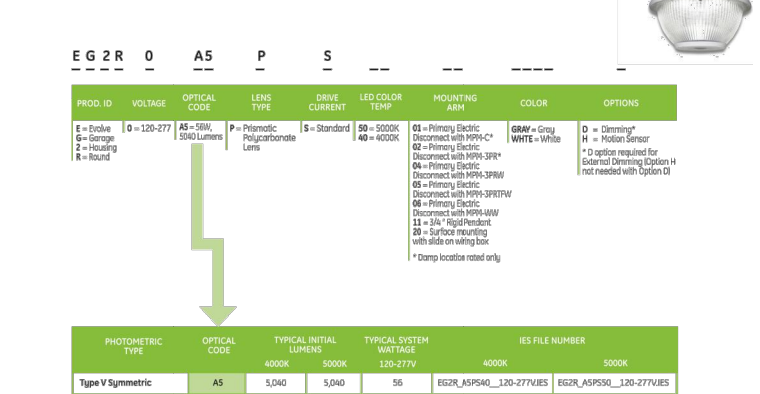
PAGE: 9/30

GE Lighting

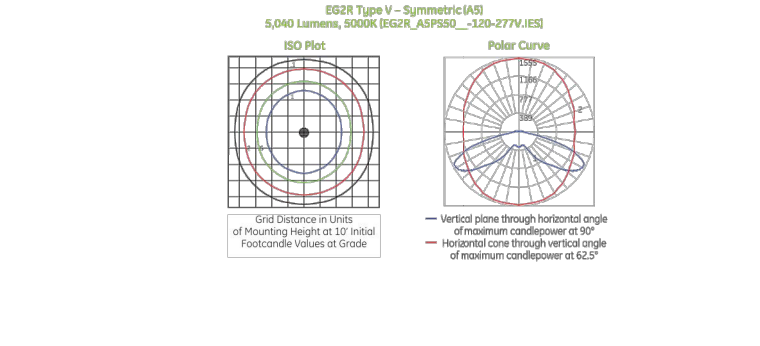
Evolve™ LED Garage Light (EGZR)



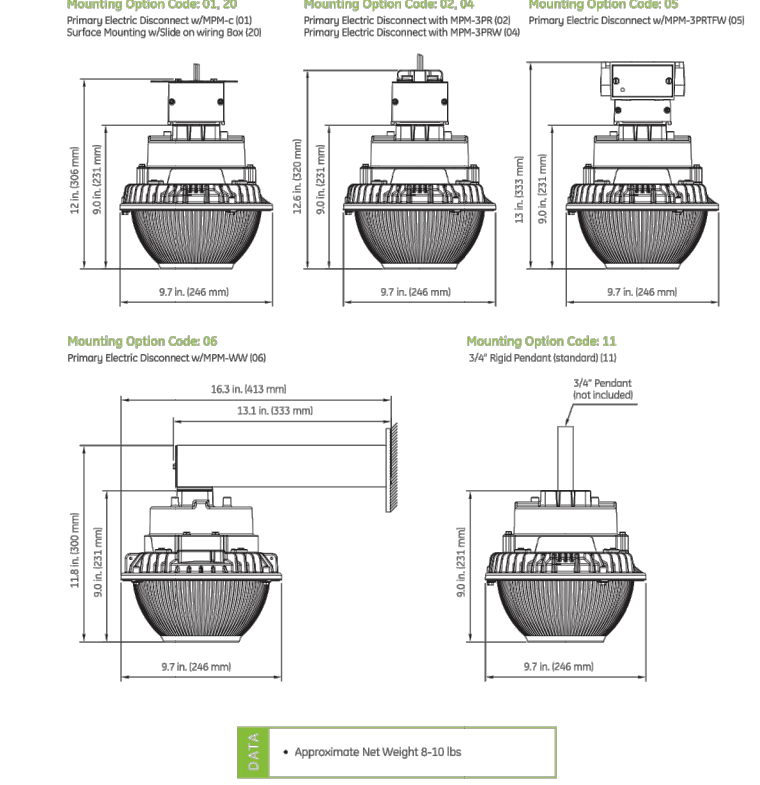
Ordering Number Logic



Photometrics



Product Dimensions



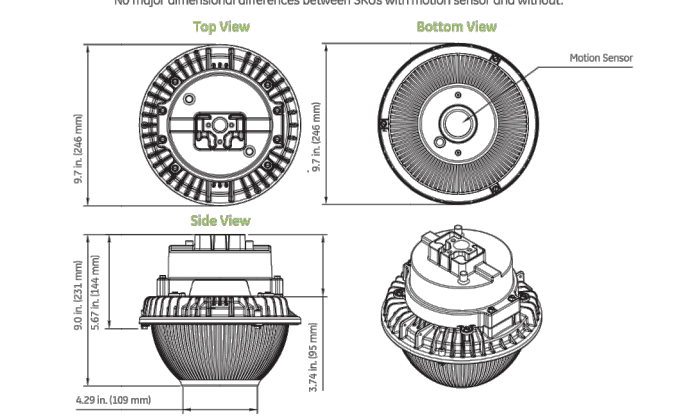
Product Features

- High quality lighting meets long life and controllability with the Evolve™ LED Garage Light, EGZR. This fixture features an advanced LED light specifically designed for applications such as parking garages with low mounting heights to provide high uniformity and excellent vertical light distribution with reduced glare. Illuminating your parking garage with effective energy lighting.
  - Features include programmable motion sensing, easy dimming and daylight harvesting. GE's optical approach with reflective optics and recessed lens provides a low glare, wide beam light fixture with low mounting height garage applications. Additionally, integrating a standard photometric fixture in the EGZR, providing a clean, friendly appearance, and eliminating the "love effect" that often occurs without a light.
  - The Evolve™ LED Garage Light offers energy efficiency, reduced energy and maintenance expenses over the life of the system with a rated life of 100,000 hours and a dim-to-flick-free, dimming range of 1% to 100%.
- Applications**
- Garage, warehouse, walkway and driveway lighting.
- Mounting**
- Available with seven different mounting options, providing a versatile product to meet almost any, field installation condition.
  - 30 mounting options with wall location rating DA, DL, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ.
  - Mounting options with damp location rating DL, DL2.
- LED & Optical Assembly**
- Evolve™ light engine consisting of reflective technology designed to optimize application efficiency and produce a low glare lighting solution.
  - Utilizes high quality LEDs, 100% optical output and 3000K.
- Mounting**
- Available with seven different mounting options, providing a versatile product to meet almost any, field installation condition.
  - 30 mounting options with wall location rating DA, DL, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ.
  - Mounting options with damp location rating DL, DL2.
- Finish**
- Customized recessed polycarbonate powder painted.
  - Maximum 2 mil thickness.
  - Standard color: White.
  - RAL and custom colors available.
- Electrical**
- 120V AC, 60 Hz.
  - 50/60 Hz.
  - Power factor is 0.98 and THD < 10%.
  - EMC IEC 61000-3-2 Class A.
  - Harmonic distortion complies with IEC 61000-3-3.
  - RoHS WEEE - L2015 Compliant.
  - UL Listed.

H-Motion Sensing Option

- Recommended for most mounting heights between 6-11 ft. This sensor provides excellent detection coverage of greater than 180° mounting height.
- 360° sensor coverage, 180° of detection allows the sensor to detect the lighting distribution of a typical garage.
- Customizable motion sensing light fixture with no occupancy, and full sensor of occupancy.
- Customizable with a 5 minute occupancy time delay and a 5 minute on-to-off to 10% dimmed level.
- Standard options may be implemented in the field. Contact manufacturer for programming instructions.

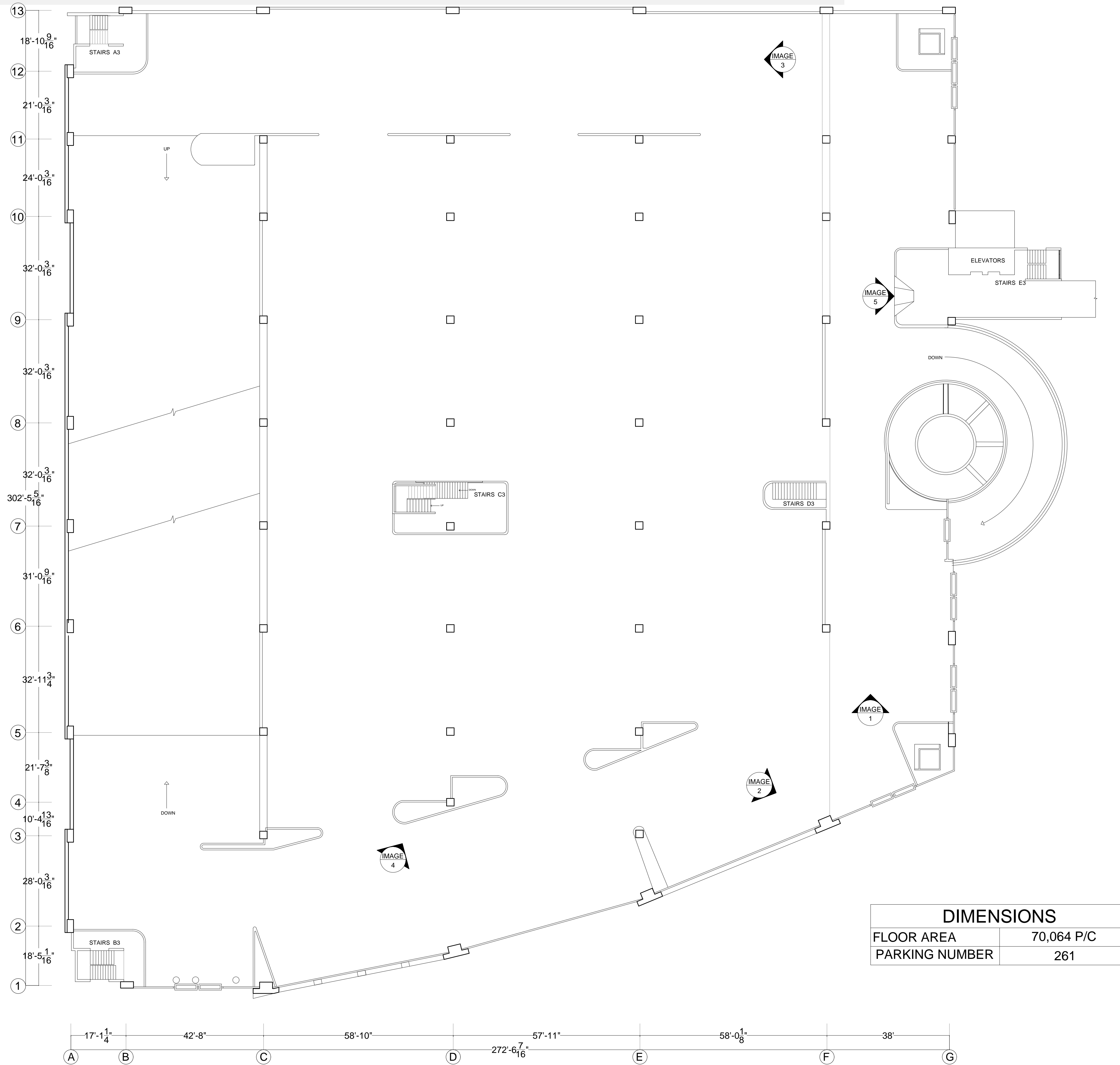
Product Dimensions



PROPOSED LIGHTING-SECOND LEVEL

SCALE NTS





DIMENSIONS	
FLOOR AREA	70,064 P/C
PARKING NUMBER	261

PARKING AS-BUILT- THIRD LEVEL

SCALE NTS

PHOTO DOCUMENTATION

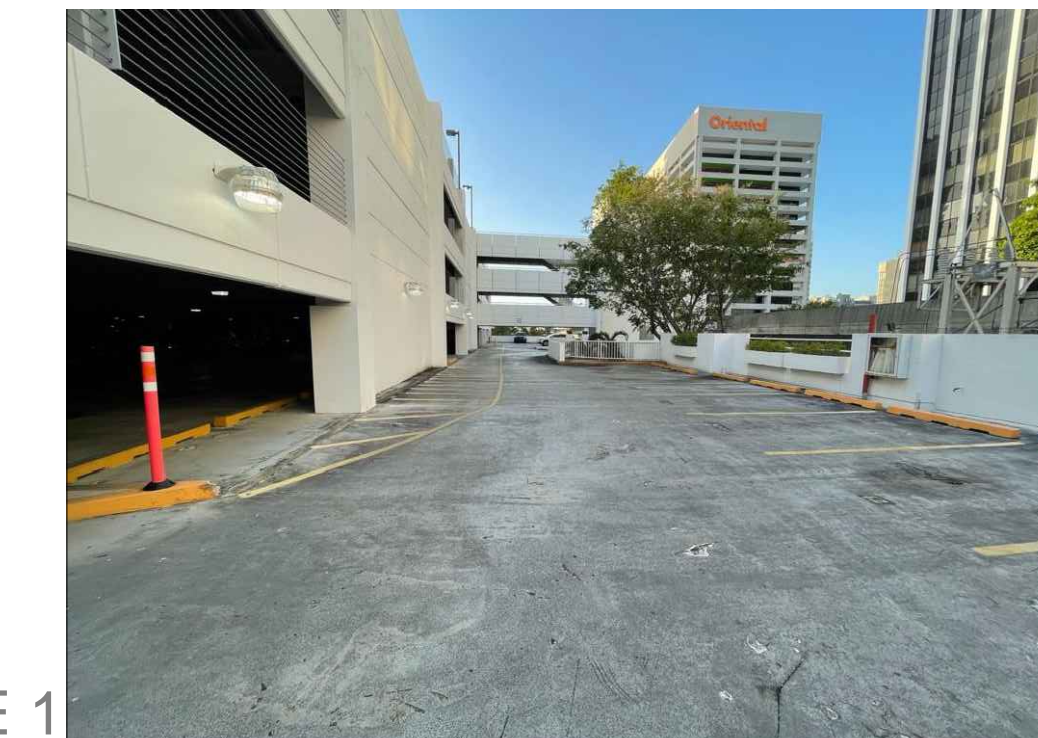


IMAGE 1

TYPICAL PARKING AREA

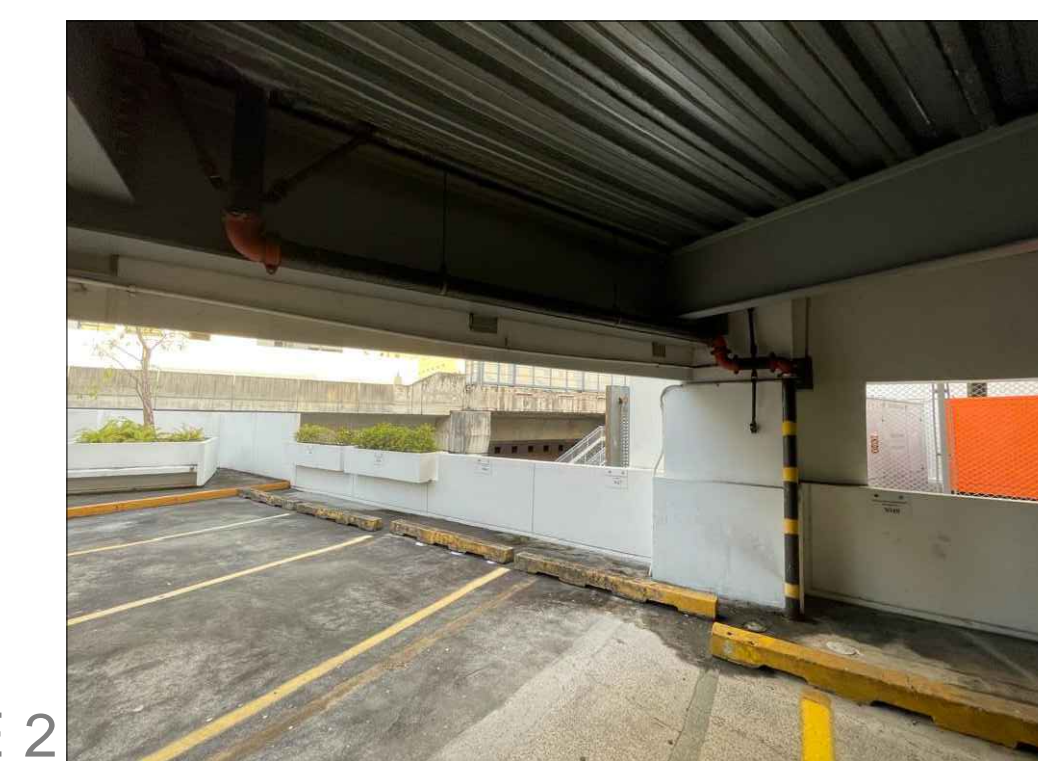


IMAGE 2

FIRE CONTROLS SYSTEMS TO BE PAINTED

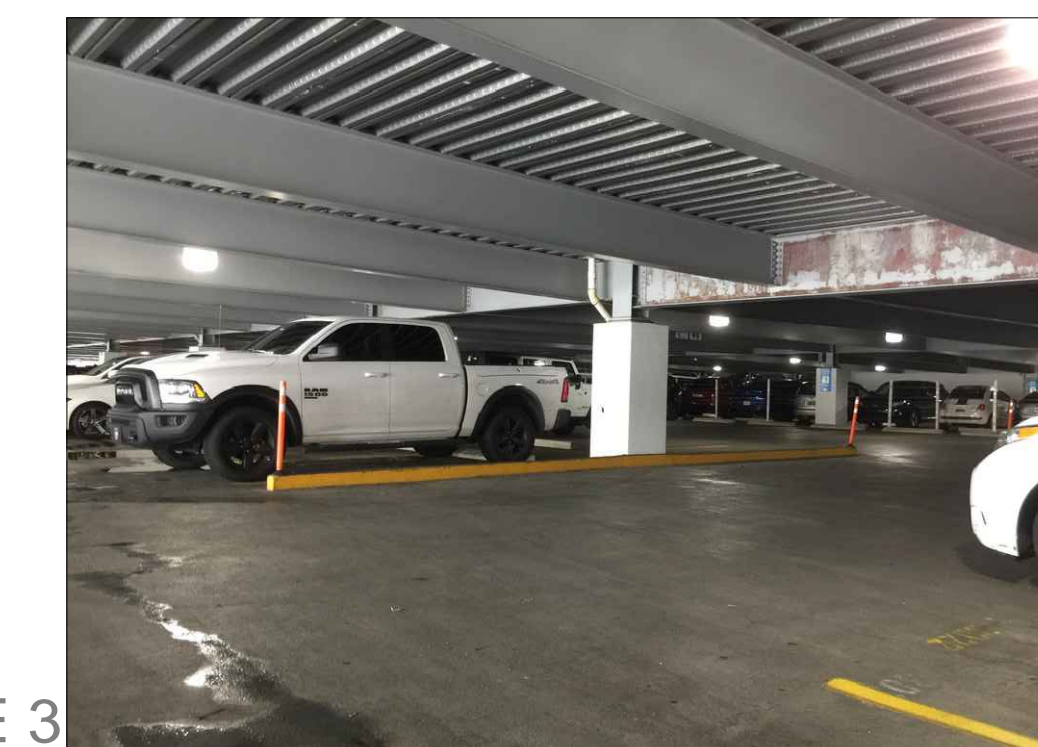


IMAGE 3

TYPICAL PARKING AREA EXISTING CONDITIONS

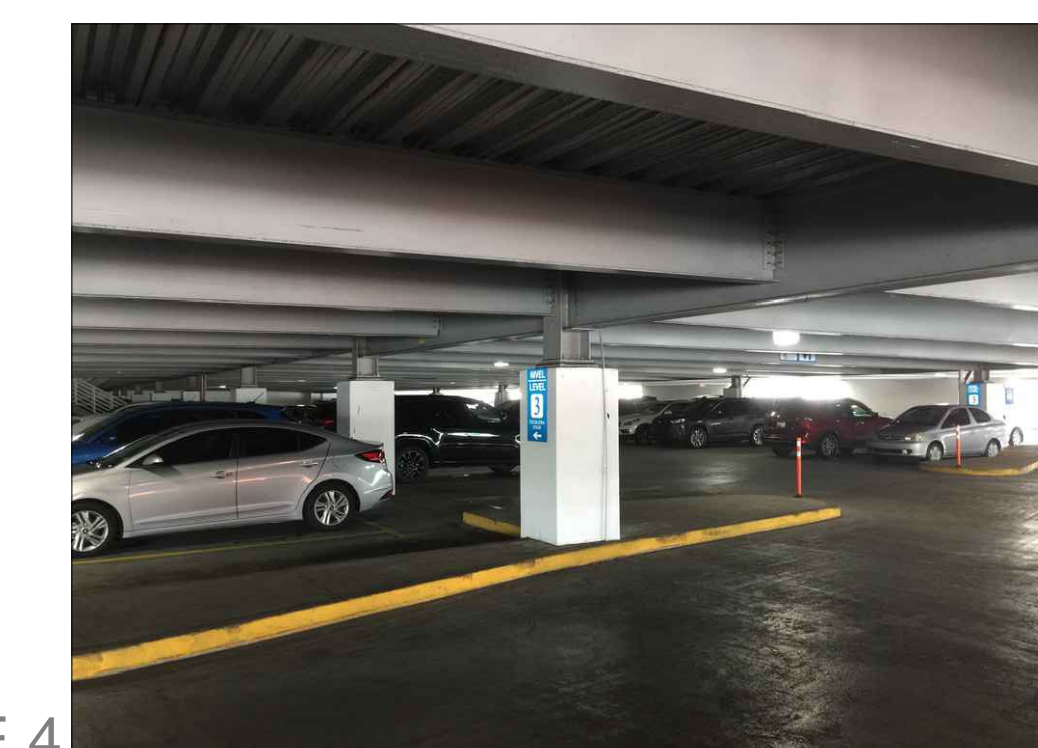


IMAGE 4

TYPICAL PARKING AREA

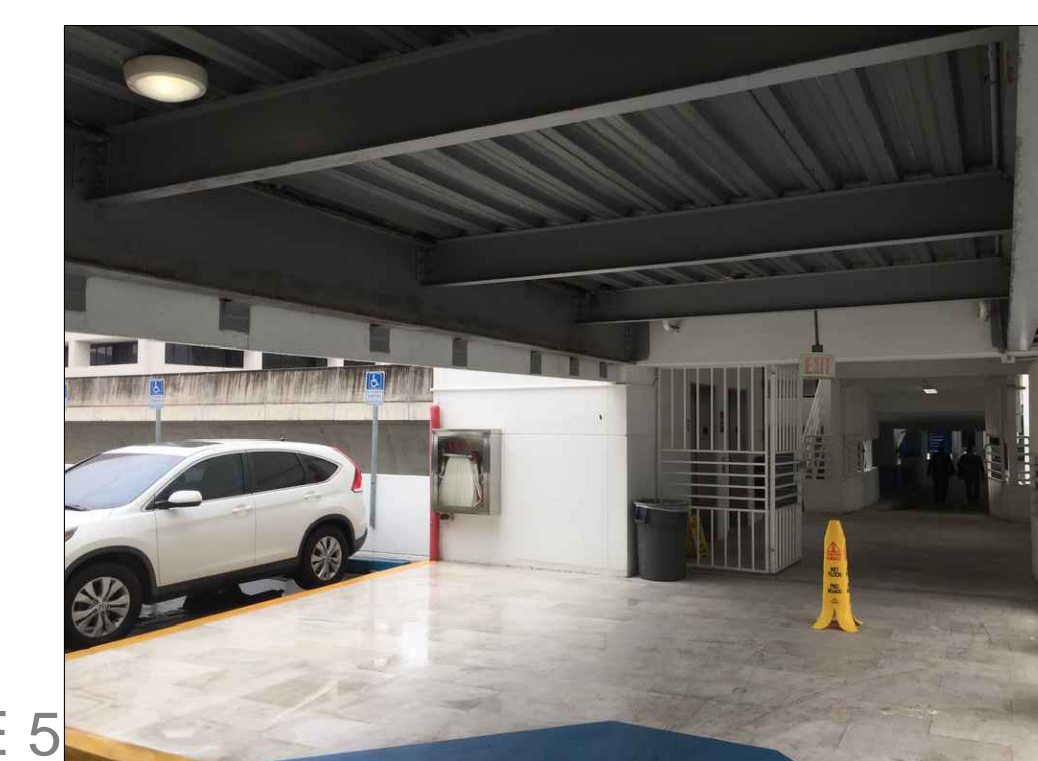


IMAGE 5

STRUCTURAL MEMBERS VIEW OF PEDESTRIAN BRIDGE BETWEEN BUILDING AND PARKING LOTS LEVELS 4 TO 6

ADDRESS  
268 AVE. MUÑOZ RIVERA  
SAN JUAN P.R.

OWNER  
PODER JUDICIAL

REGISTER NO.  
0 6 3 - 0 3 1 - 6 3 9 - 0 2

REVISIONS	REV. DATE	DESCRIPTION	BY	CHKD

**IMPORTANT NOTES TO THE CONTRACTOR**  
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SIGNATURE

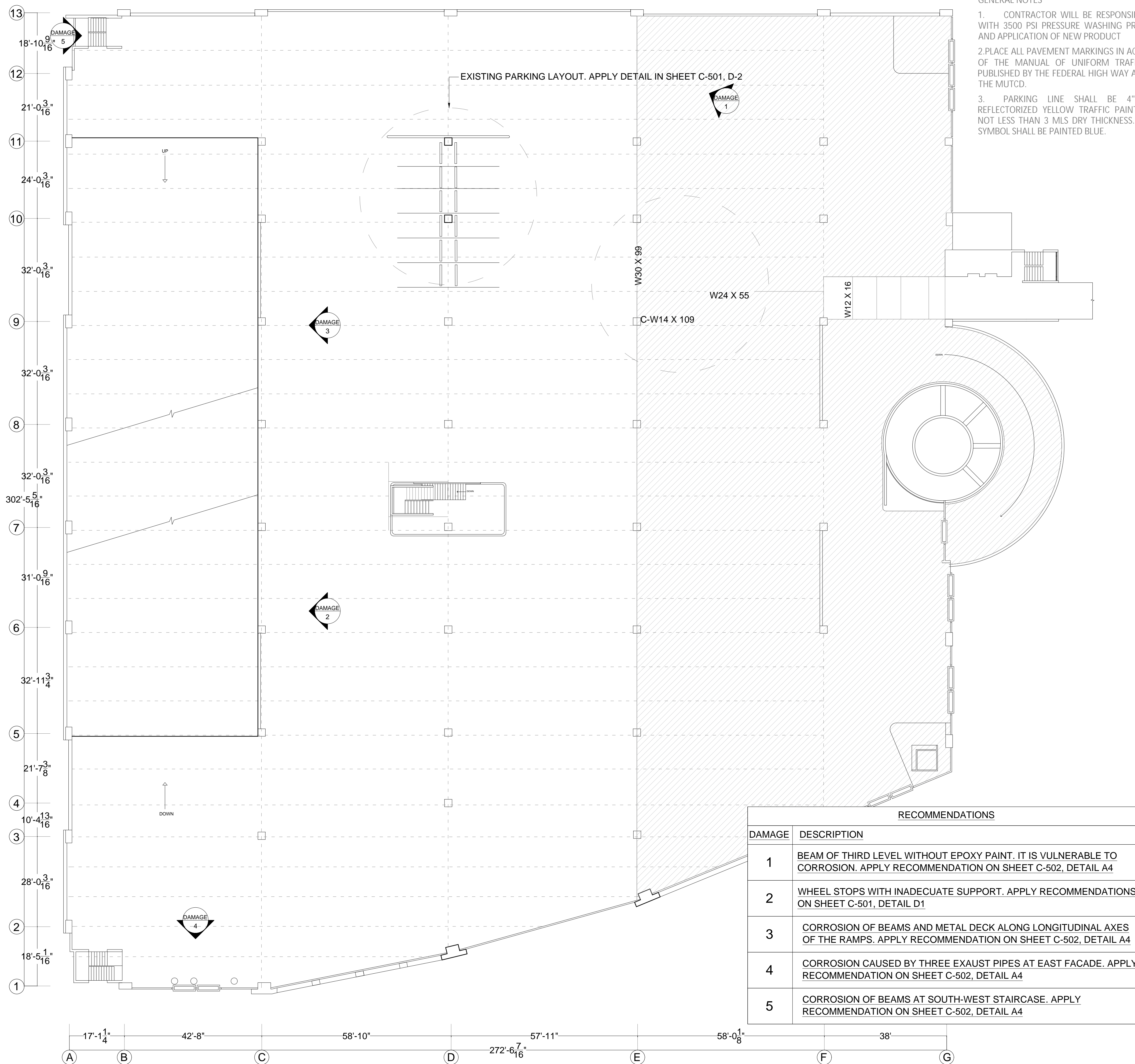


FILE  
Dwg Name: M03.3.dwg  
Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Revised by: Eng. W. Meléndez Rivera #16383  
Plot Scale:  
Progress Print: May 11, 2022

TITLE  
PARKING AS-BUILT-THIRD LEVEL

DRAWING NO.  
C-102

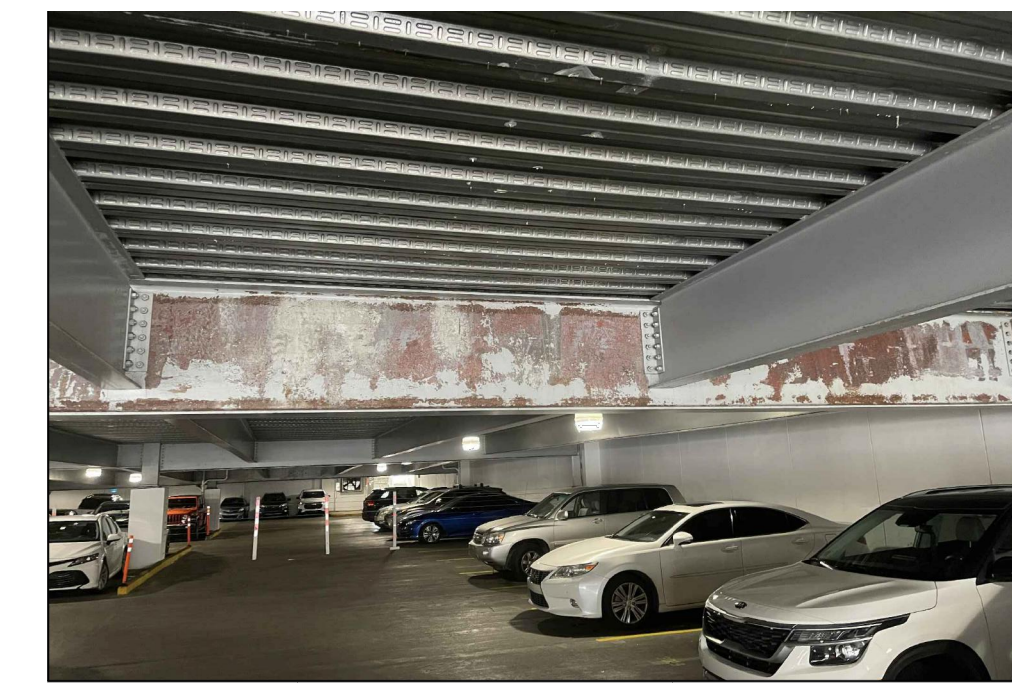




GENERAL NOTES

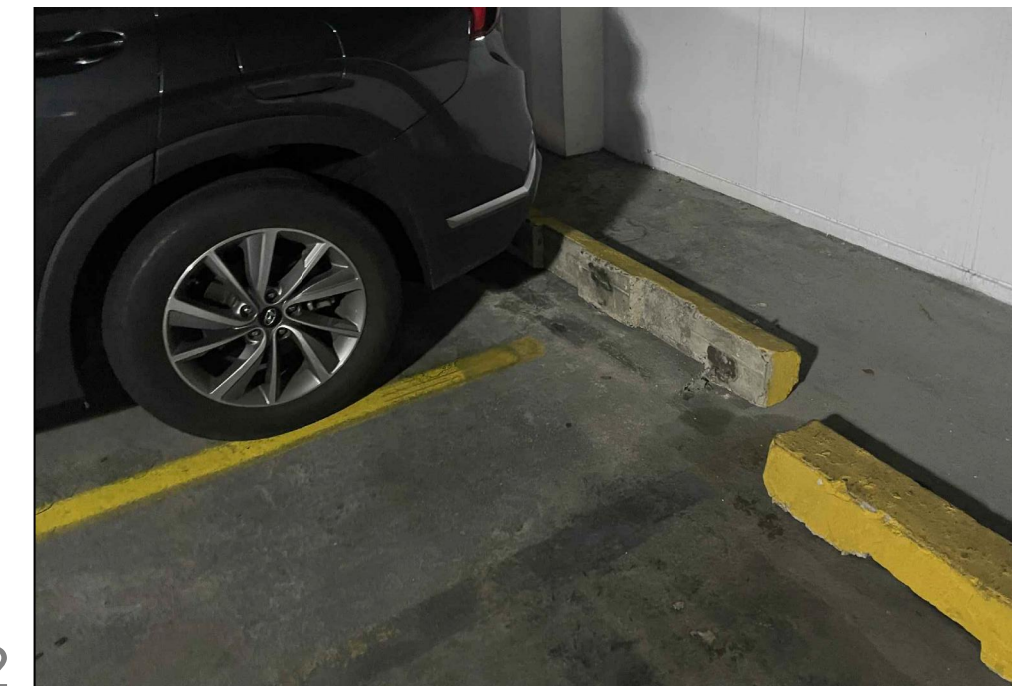
- CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING PARKING LOT WITH 3500 PSI PRESSURE WASHING PRIOR TO CORRECTION OF CRACKS AND APPLICATION OF NEW PRODUCT
- PLACE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGH WAY ADMINISTRATION SUPPLEMENT TO THE MUTCD.
- PARKING LINE SHALL BE 4" WIDE AND PAINTED WITH REFLECTORIZED YELLOW TRAFFIC PAINT, WITH FINISHED APPLICATIONS NOT LESS THAN 3 MILS DRY THICKNESS. HANDICAPPED PARKING LINES & SYMBOL SHALL BE PAINTED BLUE.

PHOTO DOCUMENTATION



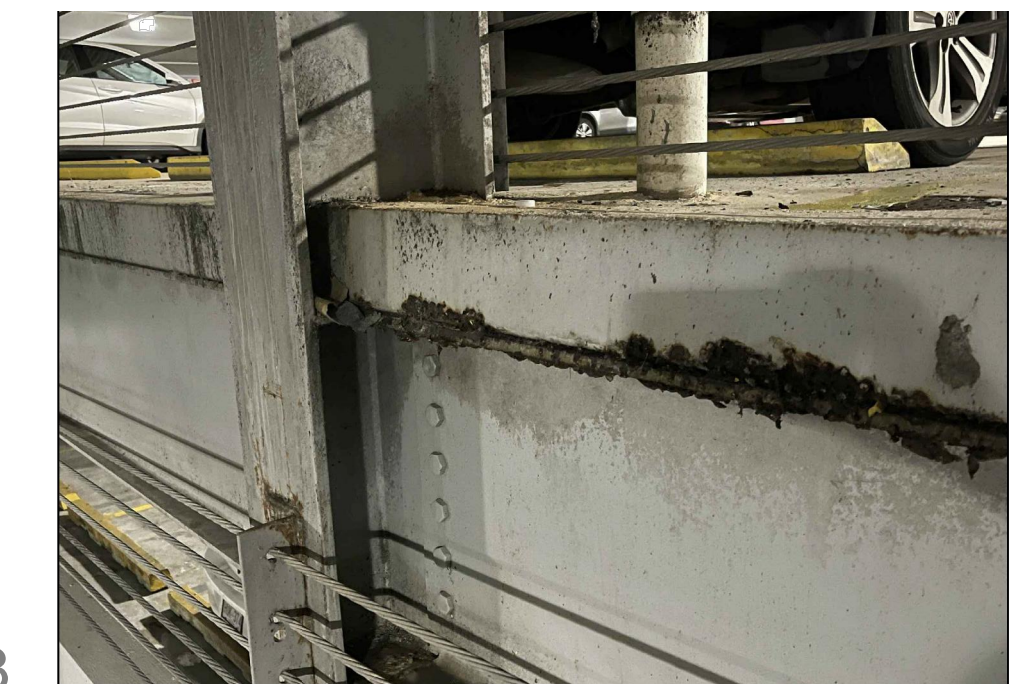
DAMAGE 1

BEAM OF THIRD LEVEL WITHOUT EPOXY PAINT. IT IS VULNERABLE TO CORROSION



DAMAGE 2

WHEEL-STOPS WITH INADEQUATE SUPPORT



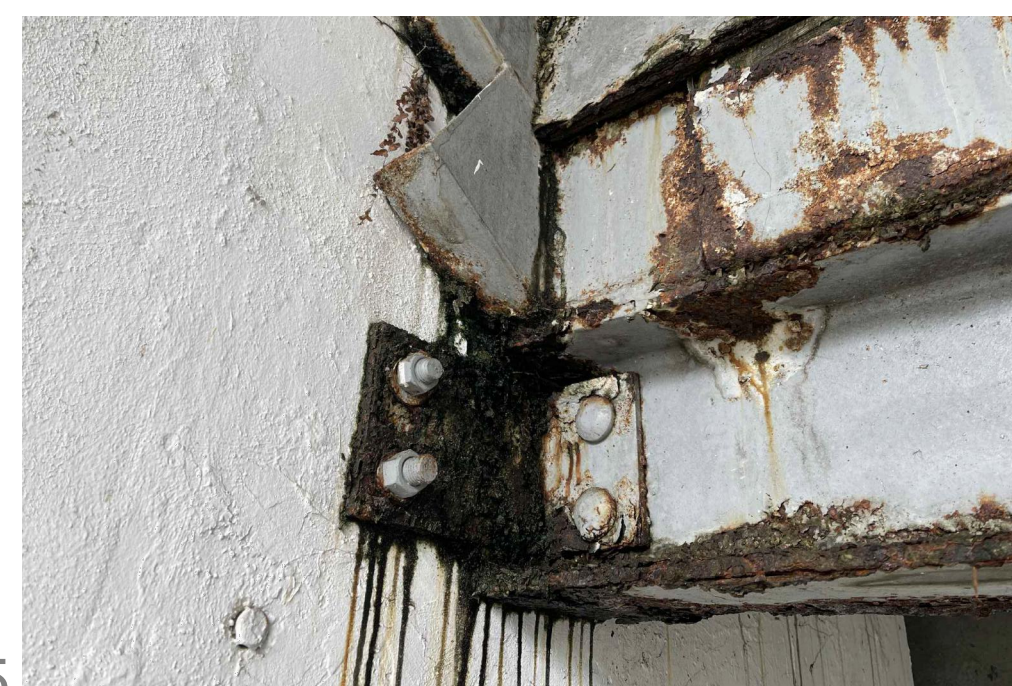
DAMAGE 3

CORROSION OF BEAMS AND METAL DECK ALONG LONGITUDINAL AXES OF THE RAMPS



DAMAGE 4

CORROSION CAUSED BY THREE EXHAUST PIPES AT EAST FACADE



DAMAGE 5

CORROSION OF BEAMS OF STAIR AT SOUTH-WEST STAIR

ADDRESS

268 AVE. MUÑOZ RIVERA  
SAN JUAN P.R.

OWNER

PODER JUDICIAL

REGISTER NO.

0 6 3 - 0 3 1 - 6 3 9 - 0 2

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHKD
..	..	..	..	..

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CERTIFICATION

I, WILLIAM MELÉNDEZ RIVERA, LIC. 14283, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE COMMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICO INDUSTRY" AND WITH THE LAW NO. 219 OF MAY 15, 1938, AS AMENDED ACT NO. 94 OF JULY 6, 1978, AS AMENDED AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY NEGLIGENCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE CODE.



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Plaza, San Juan, PR 00738  
Tel. (787) 918-5890 / 5891  
Email: info@ingenium.group

SIGNATURE



FILE

Draw Name: MEL.30g  
Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Revised by: Eng. W. Meléndez Rivera #16383  
Plot Scale:  
Progress Print: May 11, 2022

TITLE

STRUCTURAL RECOMMENDATIONS-THIRD LEVEL

DRAWING NO.

A-103

PAGE:

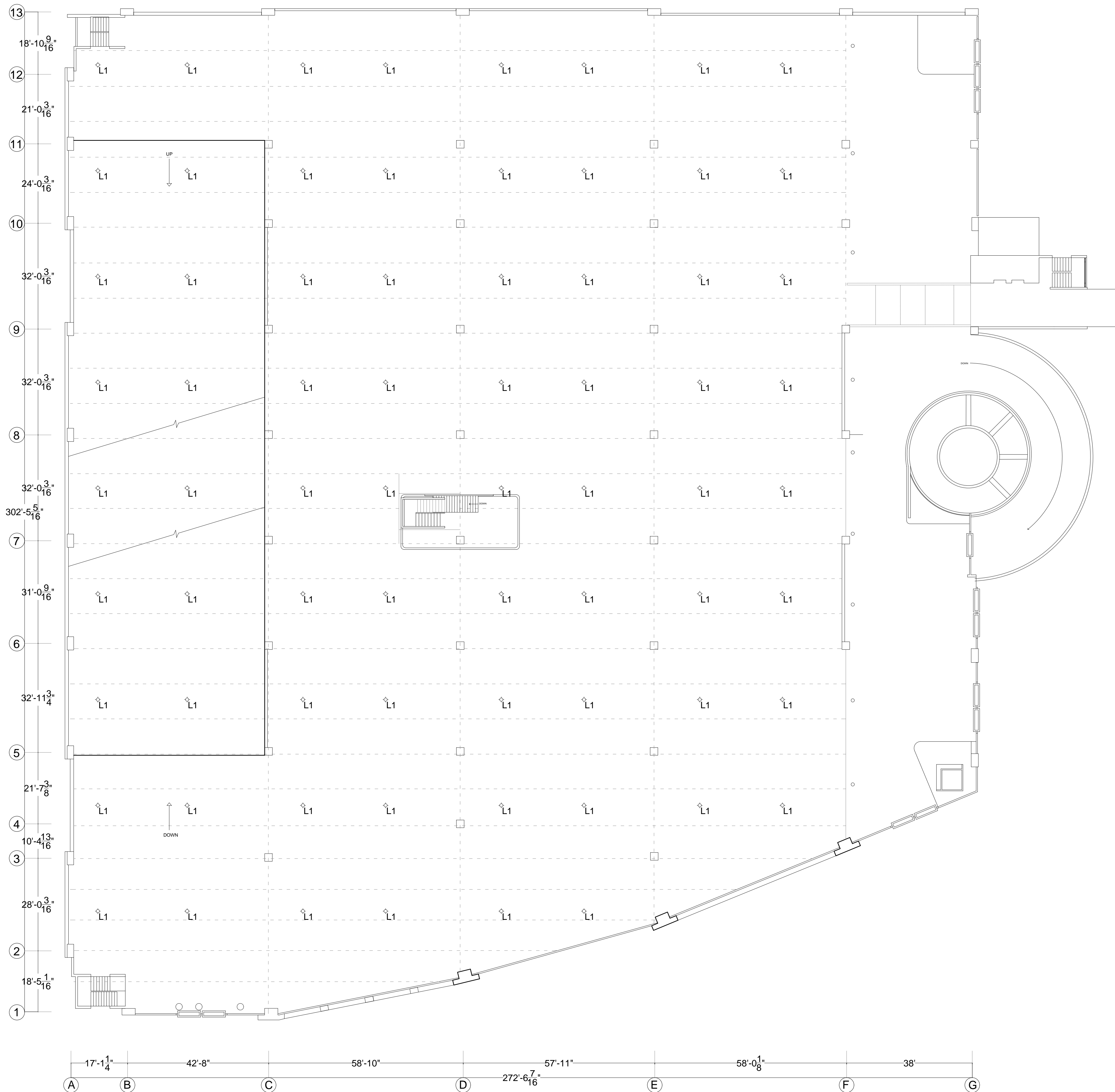
11/30

STRUCTURAL RECOMMENDATIONS-THIRD LEVEL

SCALE NTS



THIRD LEVEL EXISTING LIGHTING - WORLD PLAZA PARKING LOT IMPROVEMENT



			LEGEND
TYPE	CONDITION	QTY	DESCRIPTION
	EXISTING LIGHTING	70	EXISTING LIGHTING

GENERAL NOTES

1. LIGHTING REPLACEMENT WORK INCLUDES THE REMOVAL AND DISPOSAL OF EXISTING LIGHTS.
2. THE INTERIOR LIGHTING WILL BE REPLACED BY LAMPS OF THE LED SYSTEM, WITH DIMENSIONS OF 2'X4' AND 4 TUBES WITH "ELECTRONIC BALLAST" AND USE A PRODUCT EQUAL OR SIMILAR TO LITHONIA LIGHTING, "WRAP AROUND" 2'X4'.
3. IT MUST BE VERIFIED THAT THE PHOTOCELLS ARE WORKING CORRECTLY. THE INSTALLATION OF PHOTOCELLS MUST BE PROVIDED IN ALL CORRIDOR LAMPS.
4. OUTDOOR SPOTLIGHT IP-66.
5. THE DIAGRAM OF THE CIRCUITS, LOCATION OF SWITCHES AS WELL AS THE LOCATION OF THE PROPOSED LAMPS INDICATED ON THE PLANS IS MERELY DIAGRAMMICAL AND APPROXIMATE. THE EXACT LOCATION OF THE PIPING AND OTHER ELECTRICAL INSTALLATIONS WILL BE SUBJECT TO THE STRUCTURAL AND CONSTRUCTION CONDITIONS, THEY WILL BE CONNECTED TO THE MAIN BOARD. CONTRACTOR SHOULD SUBMIT SHOP DRAWINGS OF ELECTRICAL CONNECTIONS TO DESIGNER FOR APPROVAL PREVIOUSLY RECOMMENDED BY AN ELECTRICIAN.

ADDRESS  
268 AVE. MUÑOZ RIVERA  
SAN JUAN P.R.

OWNER  
PODER JUDICIAL

REGISTER NO.  
0 6 3 - 0 3 1 - 6 3 9 - 0 2

REVISIONS	REV. DATE	DESCRIPTION	BY	CHKD

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**CERTIFICATION**  
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**IPG INGENIUM**  
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SIGNATURE

FILE  
Dwg Name: M613.dwg  
Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Revised by: Eng. W. Meléndez Rivas # 16383  
Plot Scale:  
Progress Print: May 11, 2022

TITLE  
EXISTING LIGHTING-THIRD LEVEL

DRAWING NO.  
E-104

EXISTING LIGHTING-THIRD LEVEL

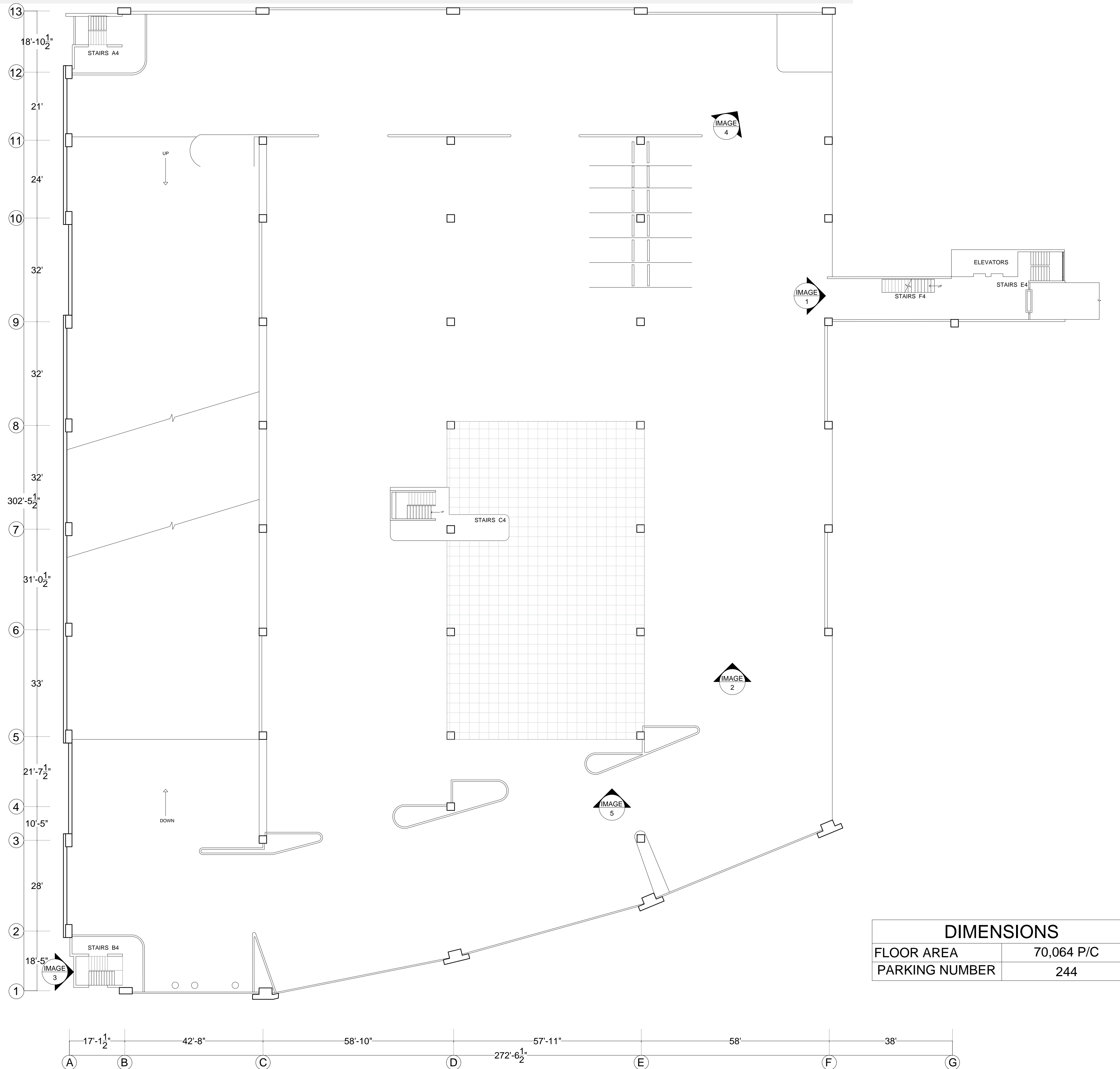
SCALE NTS







FOURTH LEVEL PARKING AS-BUILT - WORLD PLAZA PARKING LOT IMPROVEMENT



PARKING AS-BUILT-FOURTH LEVEL

SCALE NTS

PHOTO DOCUMENTATION



IMAGE 1 DAMAGE BEAM AND CORRODED MEMBERS

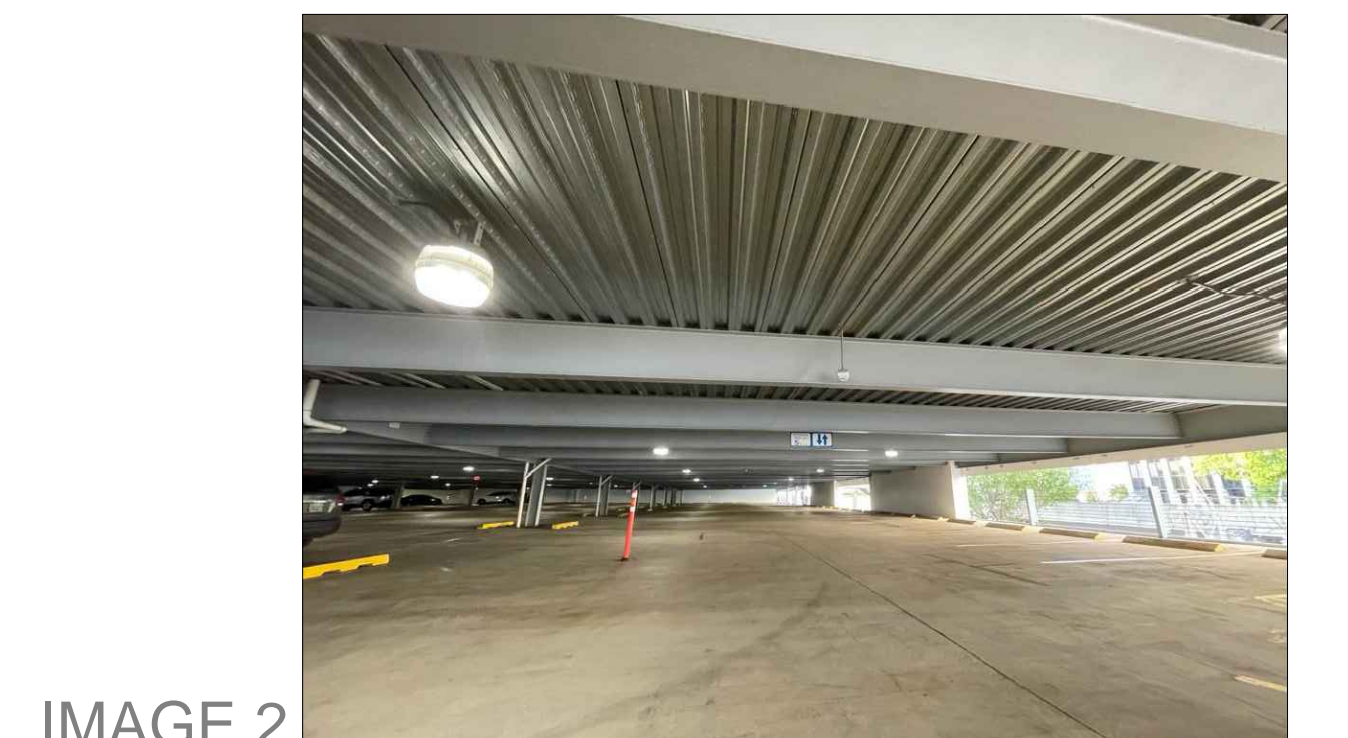


IMAGE 2 EXISTING LIGHTING



IMAGE 3 TYPICAL VIEW EXISTING STRUCTURAL CONDITIONS

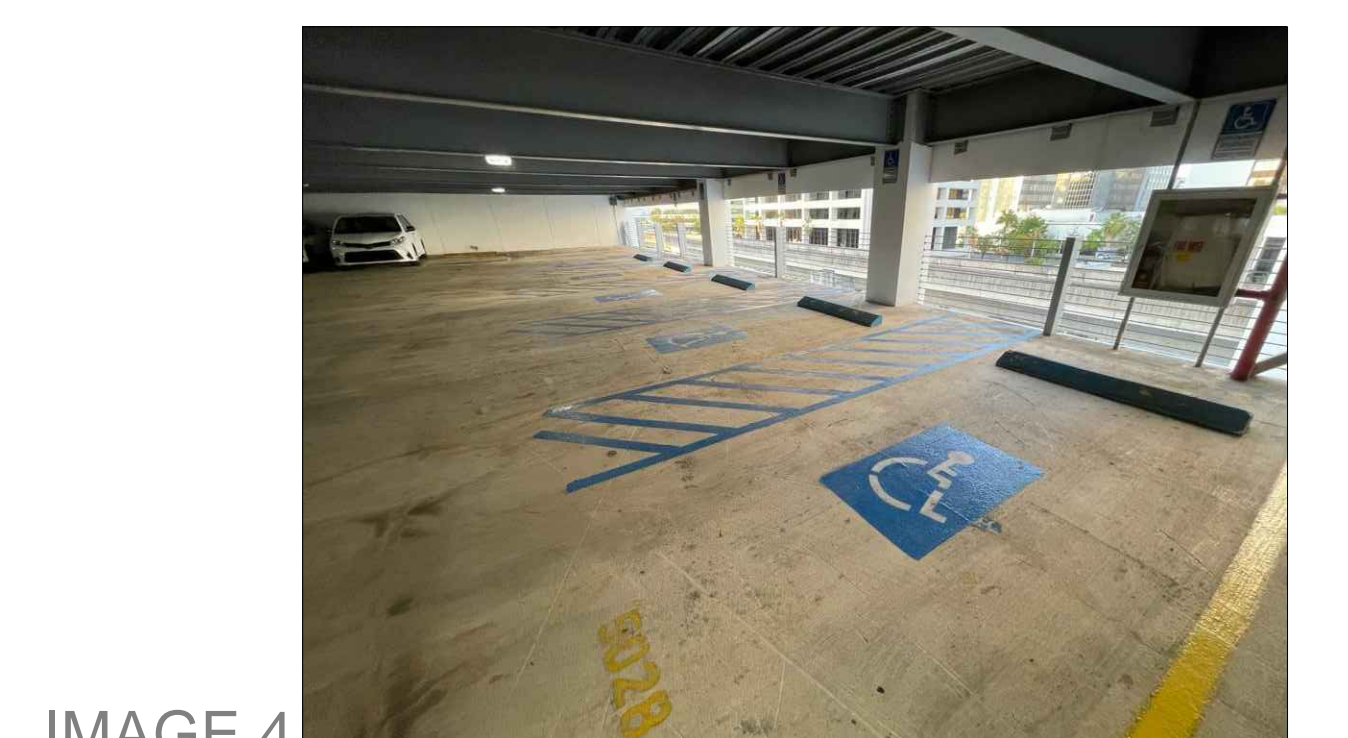


IMAGE 4 TYPICAL ADA LAYOUT

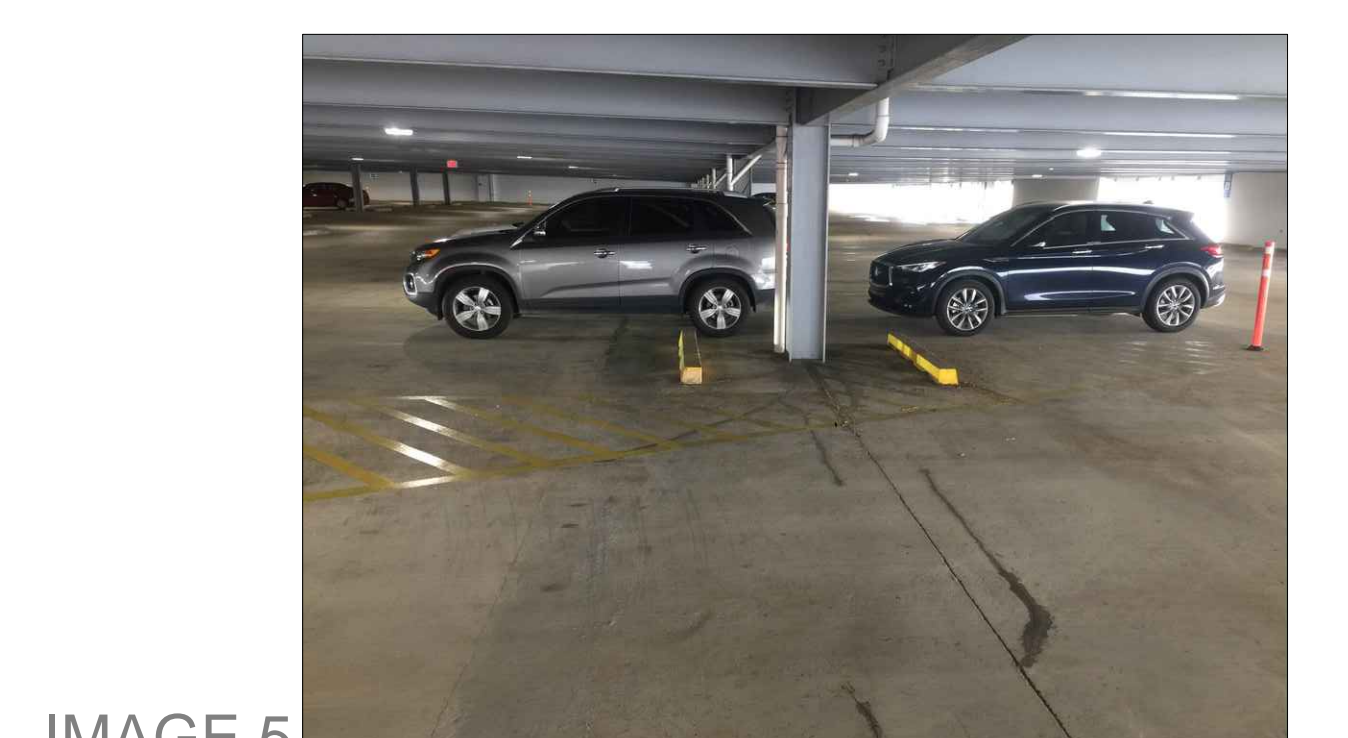


IMAGE 5 UNCOLORED MARKING STRIPES

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REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
..	..	..	..	..
..	..	..	..	..
..	..	..	..	..
..	..	..	..	..

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SIGNATURE  


FILE  
Dwg Name: NIVEL 4.dwg  
Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Revised by: Eng. W. Melendez Rivas # 16383  
Plot Scale:  
Progress Print: May 11, 2022

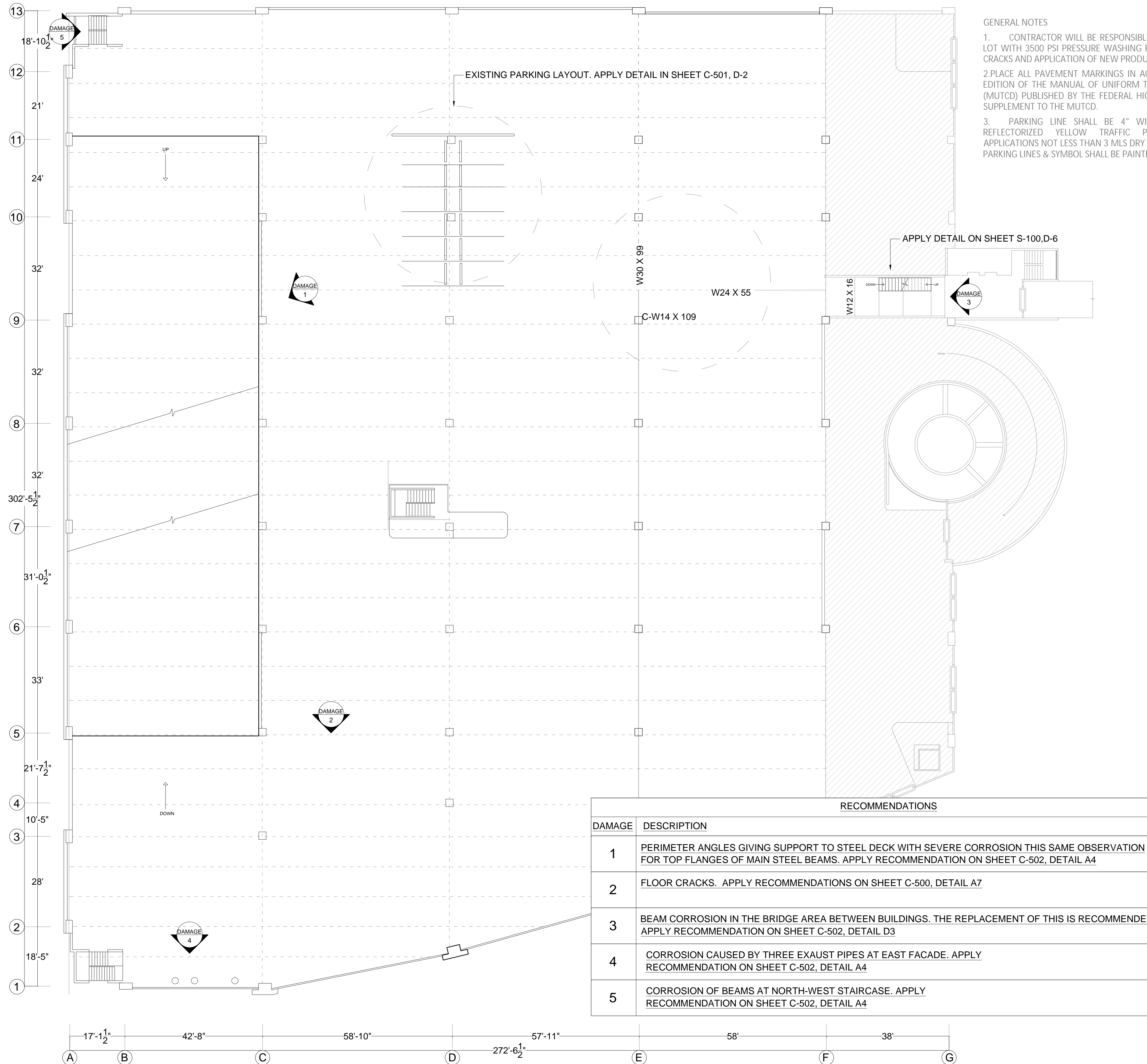
TITLE  
PARKING AS-BUILT-FOURTH LEVEL

DRAWING NO.  
C-103

PAGE: 14/30



FOURTH LEVEL STRUCTURAL RECOMMENDATIONS - WORLD PLAZA PARKING LOT IMPROVEMENT



GENERAL NOTES

- CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING PARKING LOT WITH 3500 PSI PRESSURE WASHING PRIOR TO CORRECTION OF CRACKS AND APPLICATION OF NEW PRODUCT
- PLACE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGH WAY ADMINISTRATION SUPPLEMENT TO THE MUTCD.
- PARKING LINE SHALL BE 4" WIDE AND PAINTED WITH REFLECTORIZED YELLOW TRAFFIC PAINT, WITH FINISHED APPLICATIONS NOT LESS THAN 3 MILS DRY THICKNESS. HANDICAPPED PARKING LINES & SYMBOL SHALL BE PAINTED BLUE.

PHOTO DOCUMENTATION



DAMAGE 1  
PERIMETER ANGLES GIVING SUPPORT TO STEEL DECK WITH SEVERE CORROSION. THIS SAME OBSERVATION FOR TOP FLANGES OF MAIN STEEL BEAMS



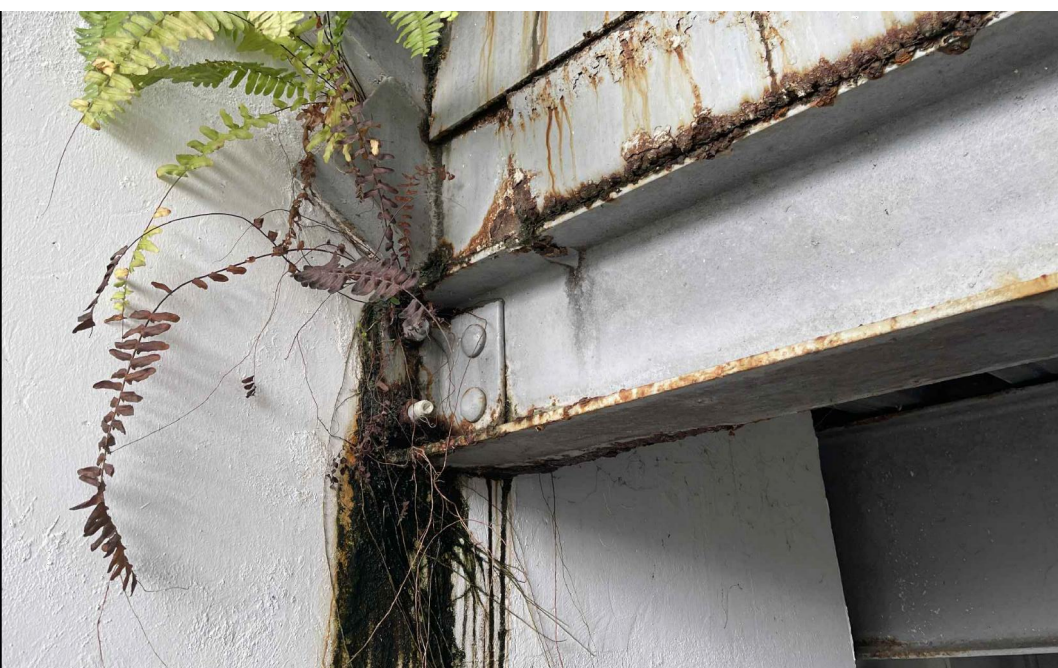
DAMAGE 2  
FLOOR CRACKS



DAMAGE 3  
BEAM CORROSION, IN THE BRIDGE AREA BETWEEN BUILDINGS. THE REPLACEMENT OF THESE IS RECOMMENDED.



DAMAGE 4  
CORROSION CAUSED BY THREE EXHAUST PIPES AT EAST FACADE



DAMAGE 5  
CORROSION OF BEAMS OF STAIR AT SOUTH-WEST STAIR

ADDRESS

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PODER JUDICIAL

REGISTER NO.

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REVISIONS

REV.	DATE	DESCRIPTION	BY	CHKD

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SIGNATURE



FILE

Dwg Name: WEL-40g  
Drawn by: INGENIUM PROFESSIONAL GROUP/PSC  
Revised by: Eng. W. Melendez Rivas #16383  
Plot Scale:  
Progress Print: May 11, 2022

TITLE

STRUCTURAL RECOMMENDATIONS-FOURTH LEVEL

DRAWING NO.

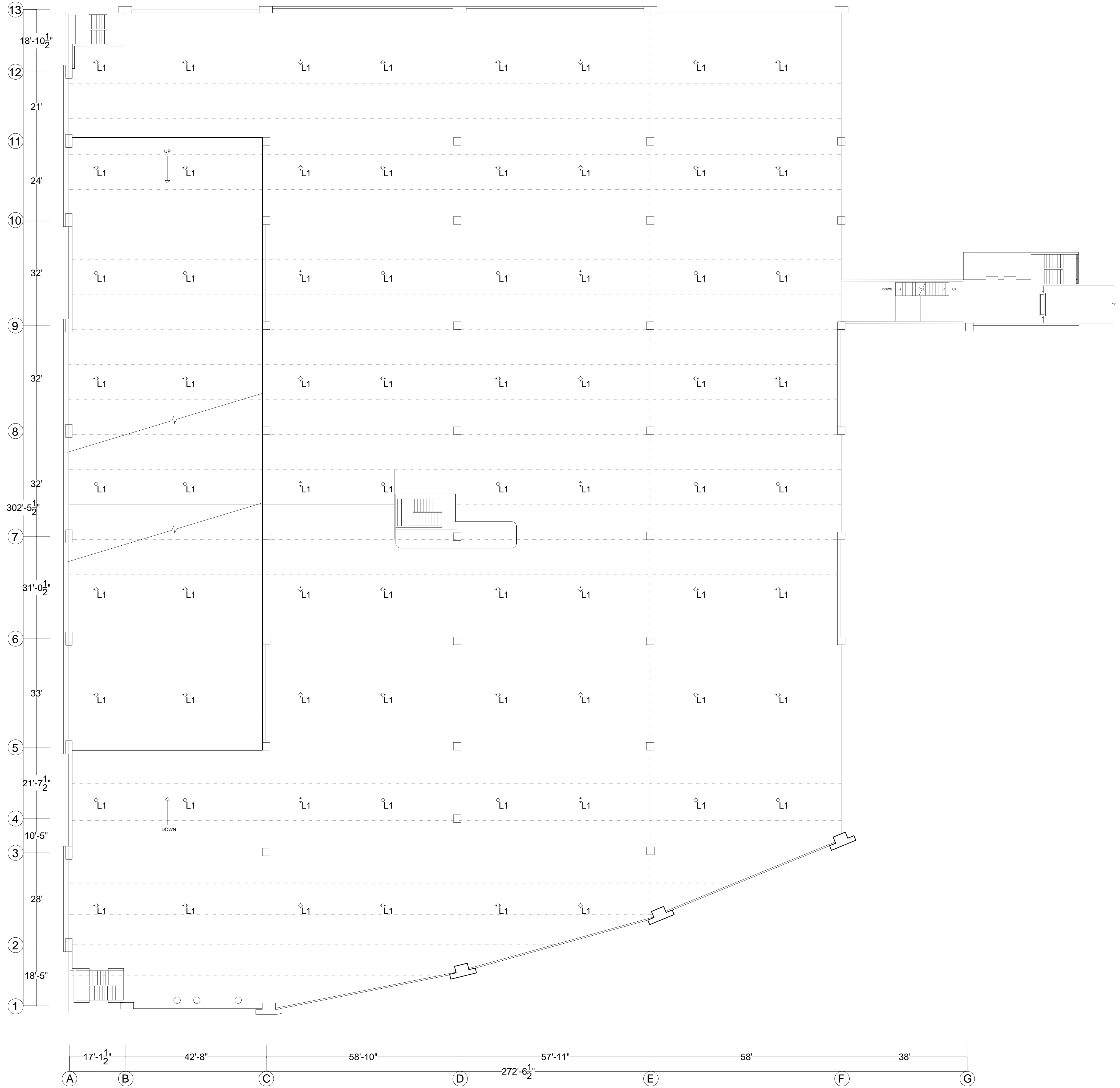
A-103

STRUCTURAL RECOMMENDATIONS-FOURTH LEVEL

SCALE NTS



# FOURTH LEVEL EXISTING LIGHTING - WORLD PLAZA PARKING LOT IMPROVEMENT



LEGEND			
TYPE	CONDITION	QTY	DESCRIPTION
	EXISTING LIGHTING	70	EXISTING LIGHTING

- GENERAL NOTES
1. LIGHTING REPLACEMENT WORK INCLUDES THE REMOVAL AND DISPOSAL OF EXISTING LIGHTS.
  2. THE INTERIOR LIGHTING WILL BE REPLACED BY LAMPS OF THE LED SYSTEM, WITH DIMENSIONS OF 2'X4' AND 4 TUBES WITH "ELECTRONIC BALLAST" AND USE A PRODUCT EQUAL OR SIMILAR TO LITHONIA LIGHTING, "WRAP AROUND" 2'X4'.
  3. IT MUST BE VERIFIED THAT THE PHOTOCELLS ARE WORKING CORRECTLY. THE INSTALLATION OF PHOTOCELLS MUST BE PROVIDED IN ALL CORRIDOR LAMPS.
  4. OUTDOOR SPOTLIGHT IP-66.
  5. THE DIAGRAM OF THE CIRCUITS, LOCATION OF SWITCHES AS WELL AS THE LOCATION OF THE PROPOSED LAMPS INDICATED ON THE PLANS IS MERELY DIAGRAMICAL AND APPROXIMATE. THE EXACT LOCATION OF THE PIPING AND OTHER ELECTRICAL INSTALLATIONS WILL BE SUBJECT TO THE STRUCTURAL AND CONSTRUCTION CONDITIONS, THEY WILL BE CONNECTED TO THE MAIN BOARD. CONTRACTOR SHOULD SUBMIT SHOP DRAWINGS OF ELECTRICAL CONNECTIONS TO DESIGNER FOR APPROVAL PREVIOUSLY RECOMMENDED BY AN ELECTRICIAN.

ADDRESS  
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REV.	DATE	DESCRIPTION BY CHK'D

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SIGNATURE



FILE  
Dwg Name: IML.dwg  
Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Revised by: Eng. W. Melendez Rivera #16383  
Plot Scale:  
Progress Print: May 11, 2022

TITLE

EXISTING LIGHTING-FOURTH LEVEL

DRAWING NO.  
E-106

PAGE: 16/30

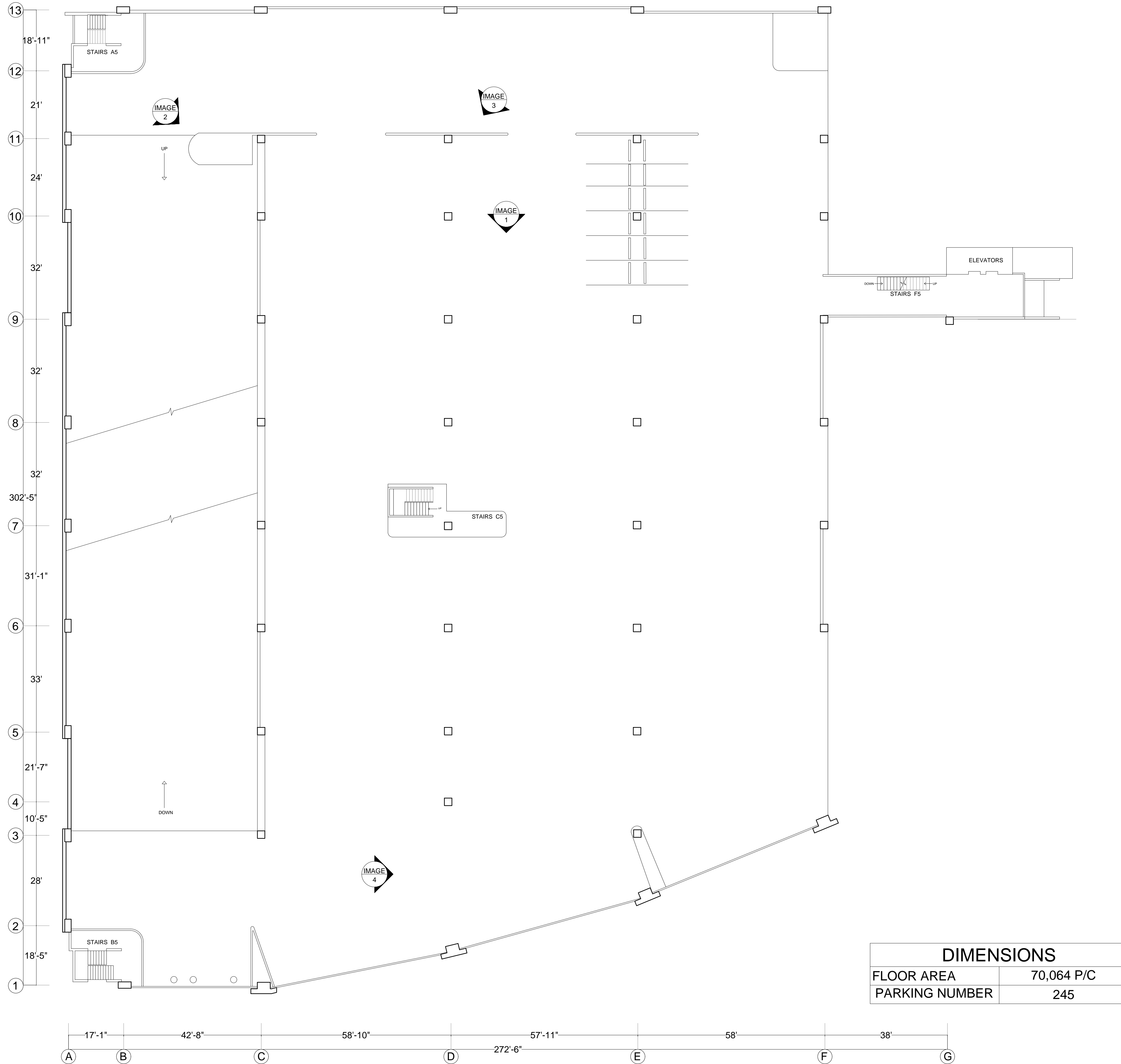
## EXISTING LIGHTING-FOURTH LEVEL

SCALE NTS









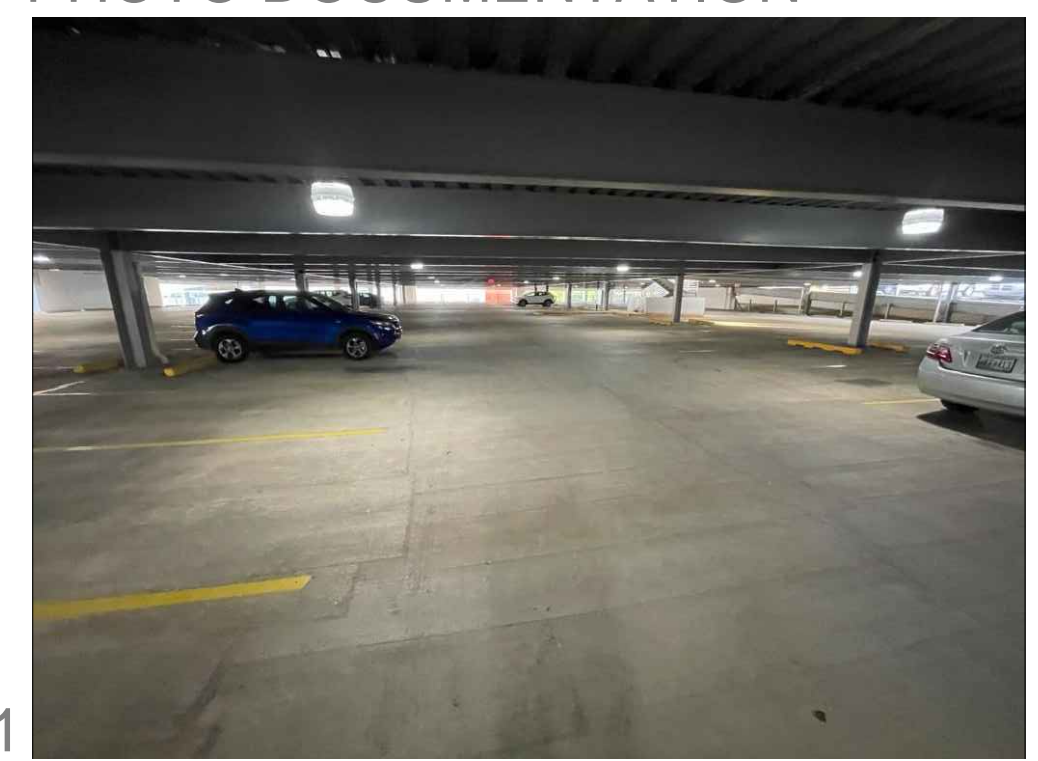
DIMENSIONS	
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PARKING NUMBER	245

PARKING AS- BUILT-FIFTH LEVEL

SCALE NTS \_\_\_\_\_

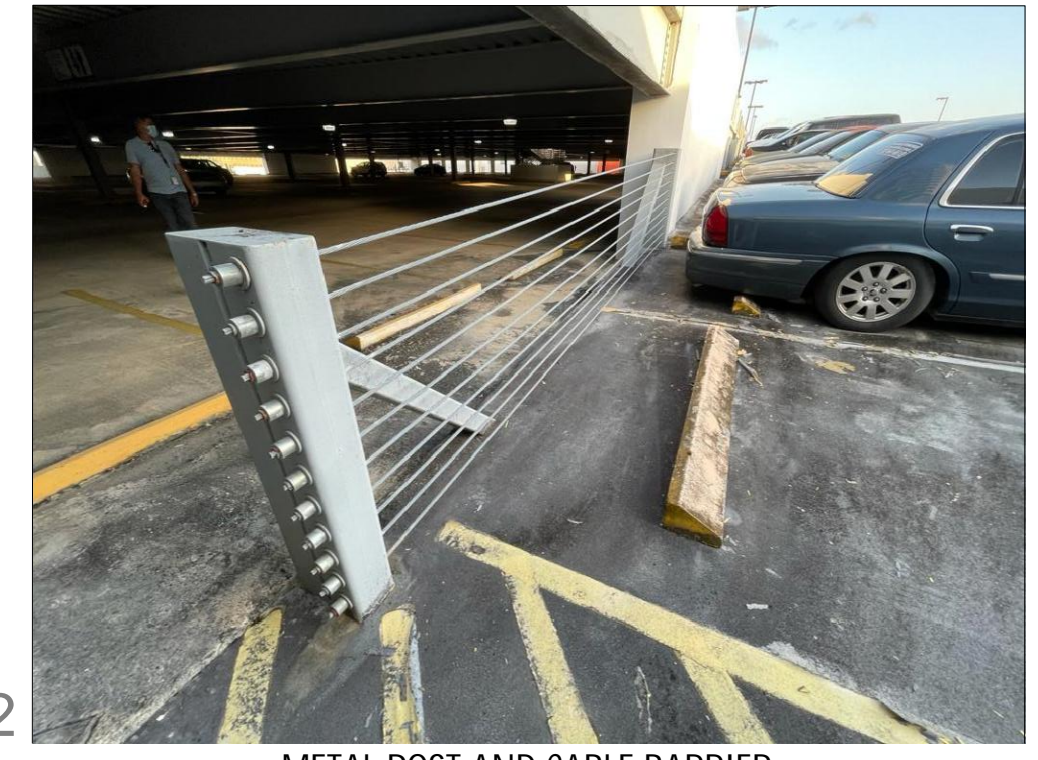
PHOTO DOCUMENTATION

IMAGE 1



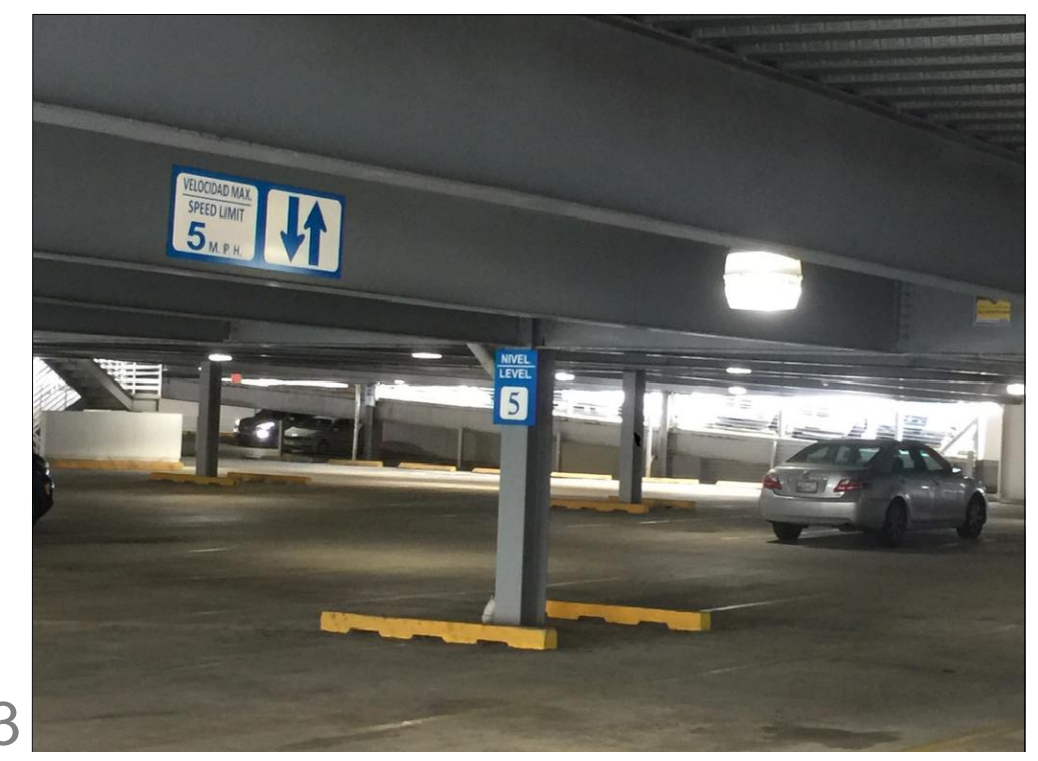
EXISTING LIGHTING CONDITION

IMAGE 2



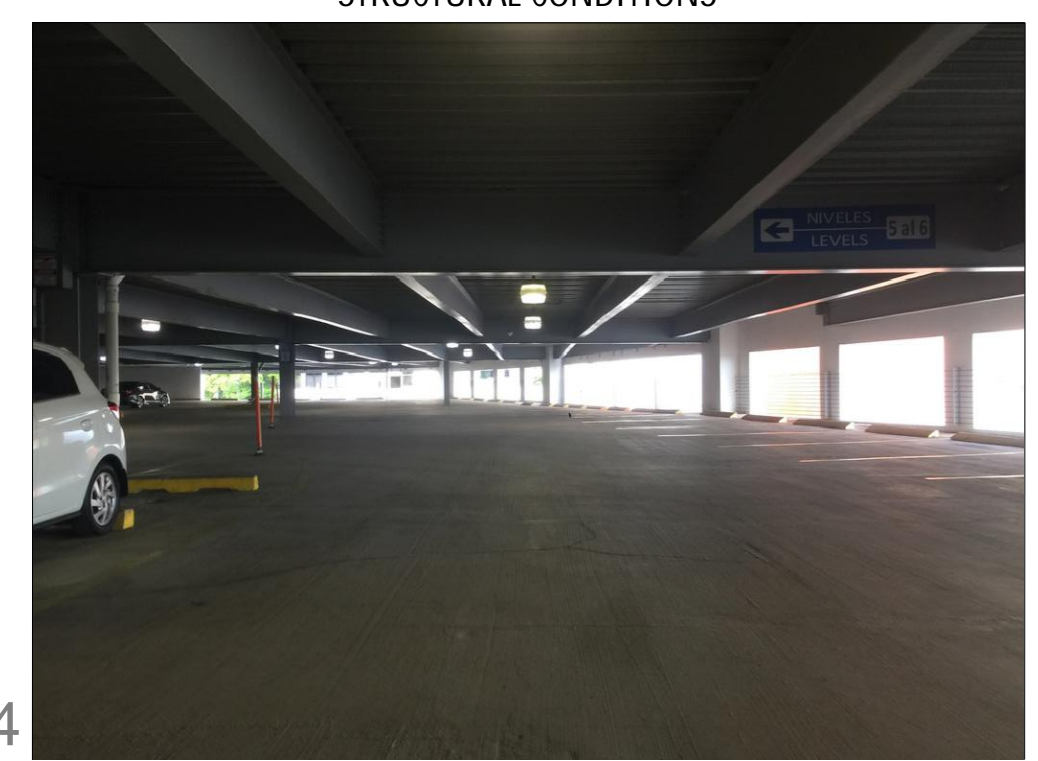
METAL POST AND CABLE BARRIER

IMAGE 3



TYPICAL VIEW EXISTING STRUCTURAL CONDITIONS

IMAGE 4



TYPICAL PARKING AREA

ADDRESS

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REVISIONS

REV. DATE DESCRIPTION BY CHK'D

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FILE

Dwg Name: MFL5.dwg  
Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Revised by: Eng. W. Melendez Rivas, #16383  
Plot Scale:  
Progress Print: May 11, 2022

TITLE

PARKING AS-BUILT-FIFTH LEVEL

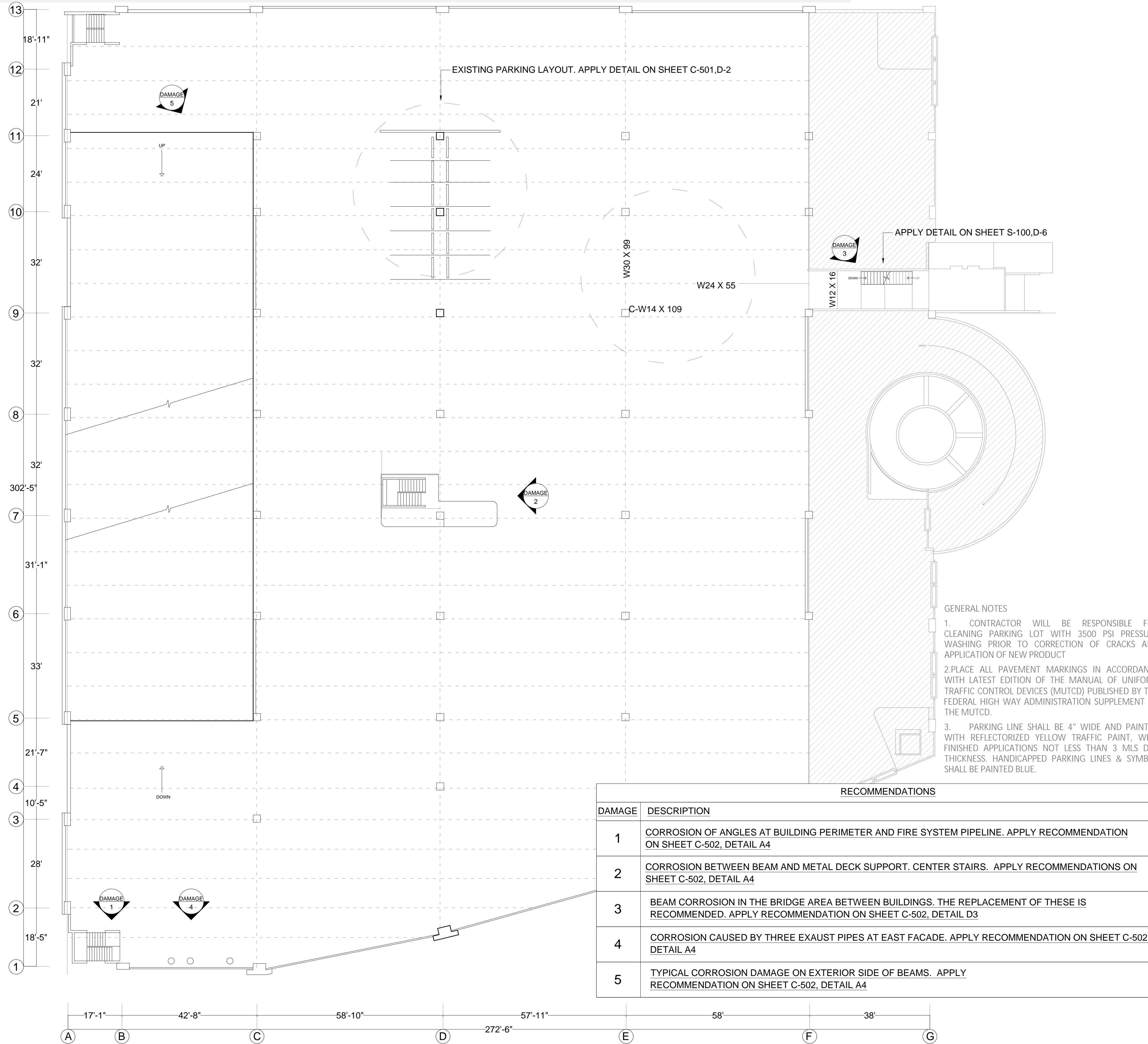
DRAWING NO.

C-104

PAGE: 18/30



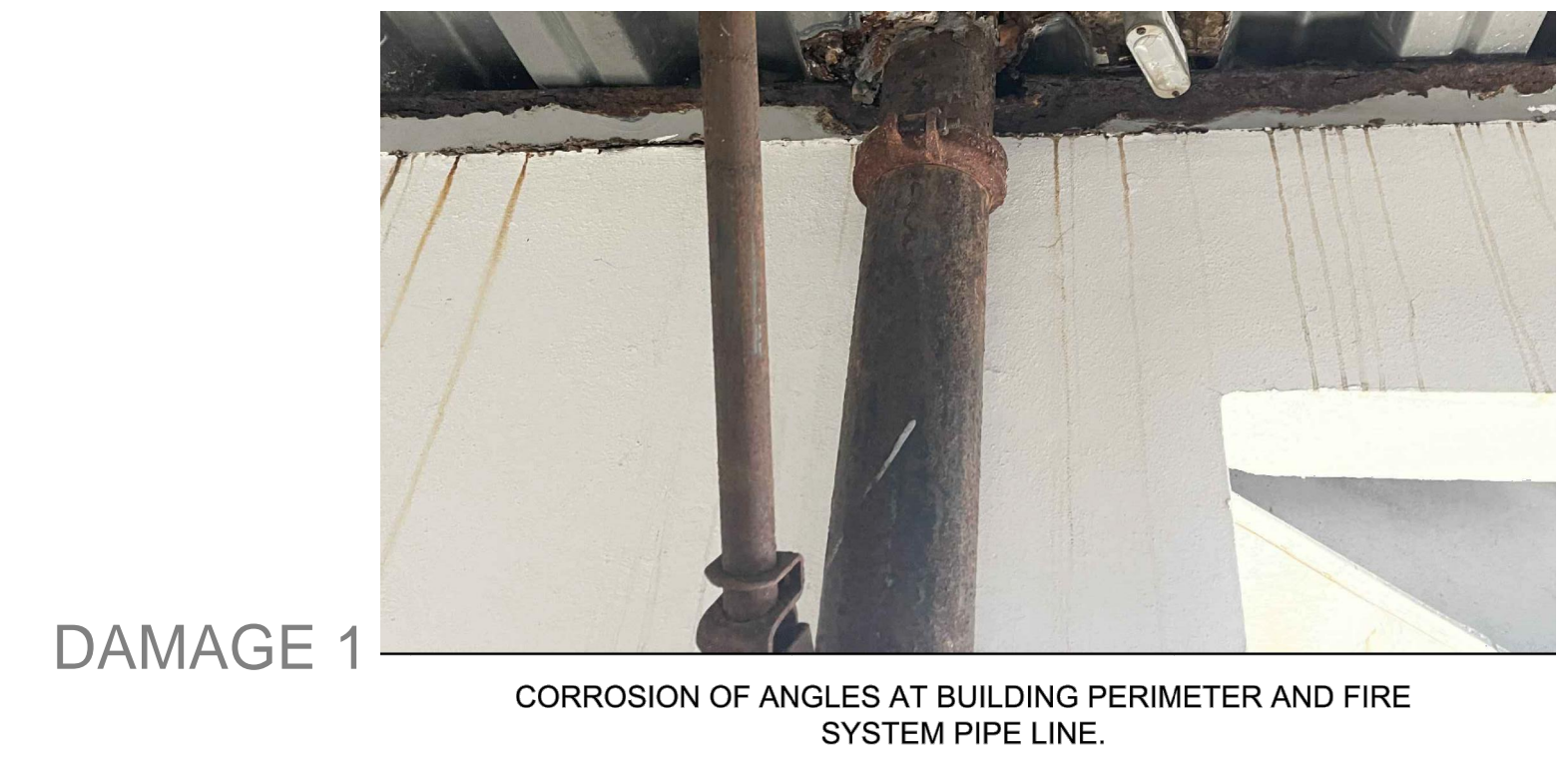
FIFTH LEVEL STRUCTURAL RECOMMENDATIONS - WORLD PLAZA PARKING LOT IMPROVEMENT



STRUCTURAL RECOMMENDATIONS-FIFTH LEVEL

SCALE NTS

PHOTO DOCUMENTATION



ADDRESS  
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REVISIONS  
REV. DATE DESCRIPTION BY CHK'D



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FILE

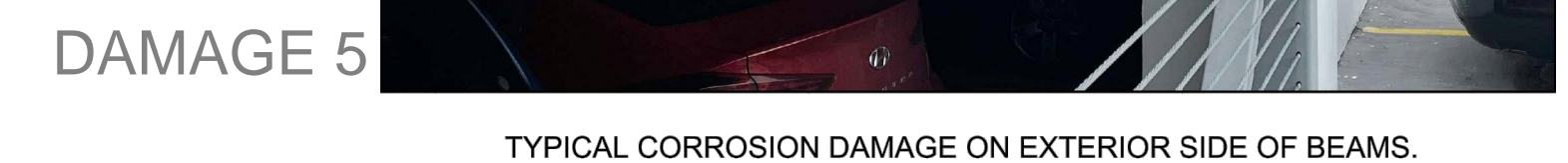
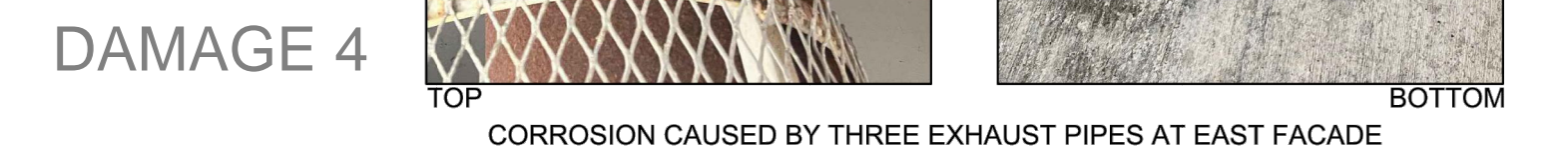
Dwg Name: MLE5.dwg  
Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Revised by: Eng. W. Melendez Rivas #16383  
Plot Scale:  
Progress Print: May 11, 2022

TITLE

STRUCTURAL RECOMMENDATIONS-FIFTH LEVEL

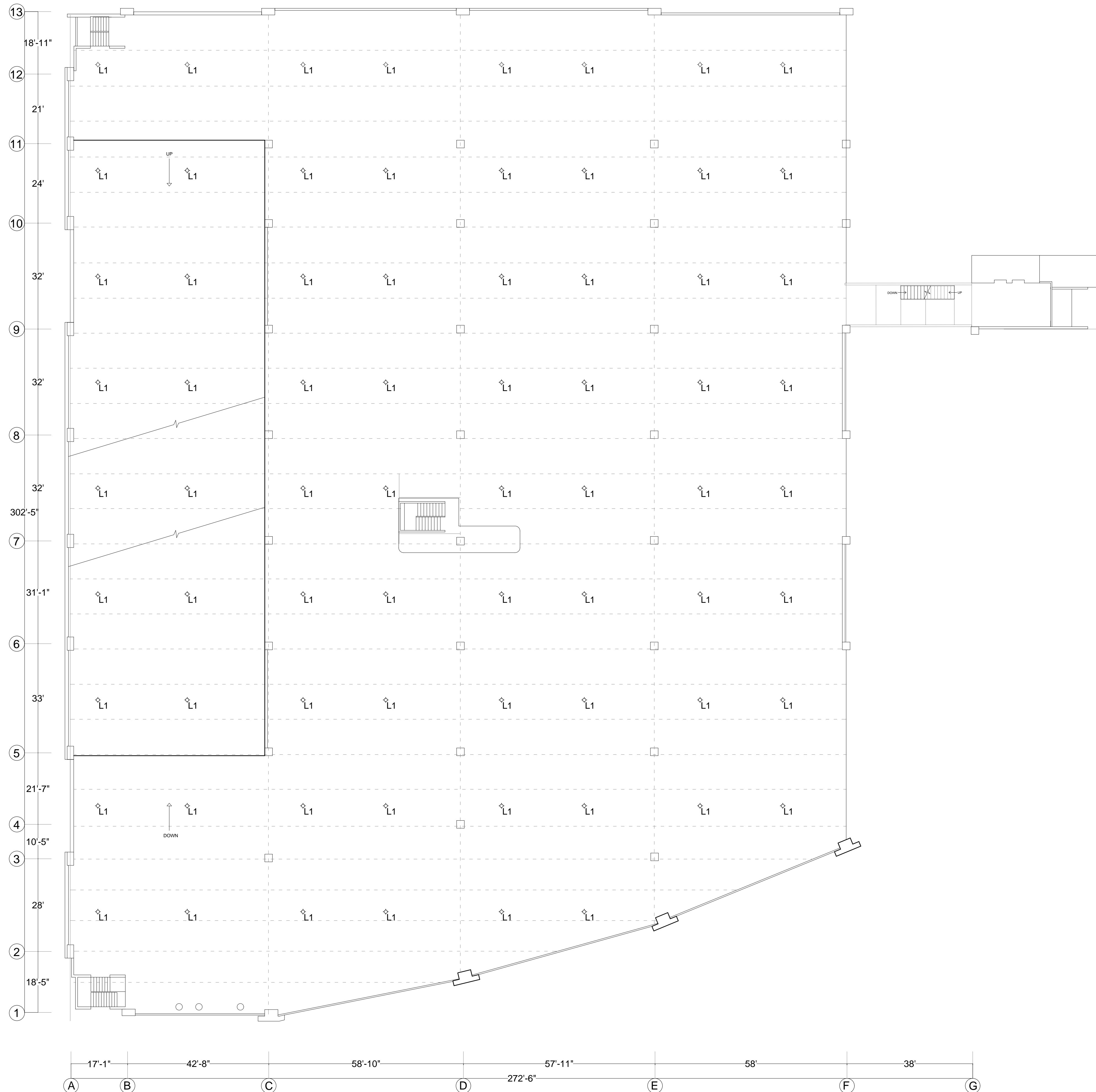
DRAWING NO.

A-104





FIFTH LEVEL EXISTING LIGHTING - WORLD PLAZA PARKING LOT IMPROVEMENT



LEGEND			
TYPE	CONDITION	QTY	DESCRIPTION
L1	EXISTING LIGHTING	70	EXISTING LIGHTING

GENERAL NOTES

1. LIGHTING REPLACEMENT WORK INCLUDES THE REMOVAL AND DISPOSAL OF EXISTING LIGHTS.
2. THE INTERIOR LIGHTING WILL BE REPLACED BY LAMPS OF THE LED SYSTEM, WITH DIMENSIONS OF 2'X4' AND 4 TUBES WITH "ELECTRONIC BALLAST" AND USE A PRODUCT EQUAL OR SIMILAR TO LITHONIA LIGHTING, "WRAP AROUND" 2'X4'.
3. IT MUST BE VERIFIED THAT THE PHOTOCELLS ARE WORKING CORRECTLY. THE INSTALLATION OF PHOTOCELLS MUST BE PROVIDED IN ALL CORRIDOR LAMPS.
4. OUTDOOR SPOTLIGHT IP-66.
5. THE DIAGRAM OF THE CIRCUITS, LOCATION OF SWITCHES AS WELL AS THE LOCATION OF THE PROPOSED LAMPS INDICATED ON THE PLANS IS MERELY DIAGRAMICAL AND APPROXIMATE. THE EXACT LOCATION OF THE PIPING AND OTHER ELECTRICAL INSTALLATIONS WILL BE SUBJECT TO THE STRUCTURAL AND CONSTRUCTION CONDITIONS, THEY WILL BE CONNECTED TO THE MAIN BOARD. CONTRACTOR SHOULD SUBMIT SHOP DRAWINGS OF ELECTRICAL CONNECTIONS TO DESIGNER FOR APPROVAL PREVIOUSLY RECOMMENDED BY AN ELECTRICIAN.

ADDRESS

268 AVE MUÑOZ RIVERA  
SAN JUAN P.R.

OWNER

PODER JUDICIAL

REGISTER NO.

0 6 3 - 0 3 1 - 6 3 9 - 0 2

REVISIONS

REV. DATE DESCRIPTION BY CHKD

.. .. .. .. ..

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE CORRESPONDING SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JUNE REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS, OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAVE FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICHAN INDUSTRY" AND WITH THE LAW NO. 319 OF MAY 15, 1938, AS AMENDED ACT NO. 96 OF JULY 6, 1978 AS AMENDED AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY KNOWLEDGE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR SURVEYORS, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISQUALIFICATION BY THE DOE.



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SIGNATURE



FILE

Dwg Name: INEL5.dwg  
Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Revised by: Eng. W. Melendez Rivas #16383  
Plot Scale:  
Progress Print: May 11, 2022

TITLE

EXISTING LIGHTING-FIFTH LEVEL

DRAWING NO.

E-108

EXISTING LIGHTING-FIFTH LEVEL

SCALE NTS







PHOTO DOCUMENTATION

ADDRESS

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0 6 3 - 0 3 1 - 6 3 9 - 0 2

REVISIONS

REV. DATE DESCRIPTION BY CHK'D

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SIGNATURE



FILE

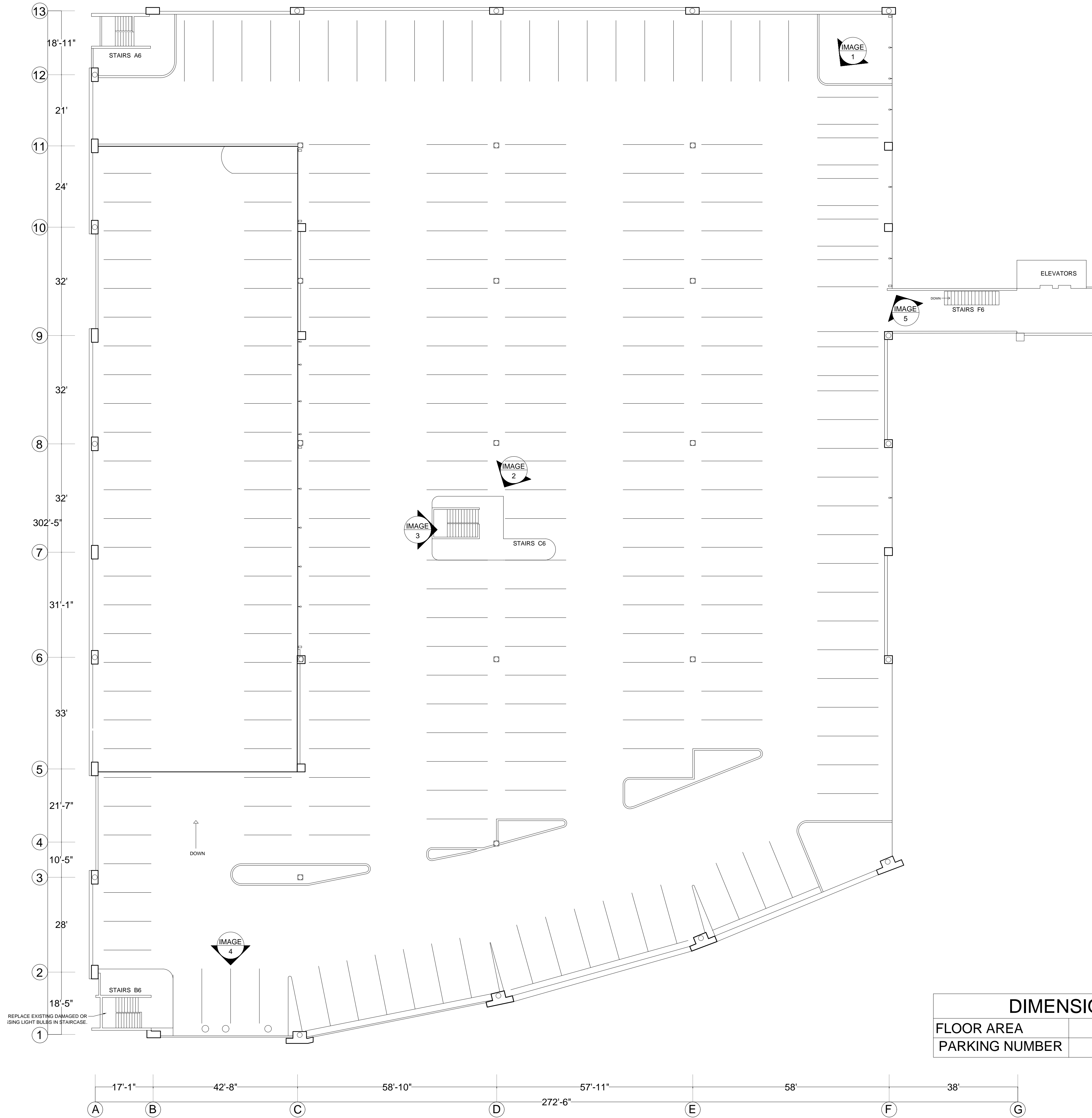
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Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Revised by: Eng. W. Meléndez Rivas # 16383  
Plot Scale:  
Progress Print: May 11, 2022

TITLE

PARKING AS-BUILT-SIXTH LEVEL

DRAWING NO.

C-105



DIMENSIONS	
FLOOR AREA	70,064 P/C
PARKING NUMBER	247

IMAGE 1



SIXTH FLOOR GENERAL VIEW

IMAGE 2



CENTRAL ACCESS STAIRS LEVEL 6 PROPOSED EXTENSION OF UPPER ROOF

IMAGE 3



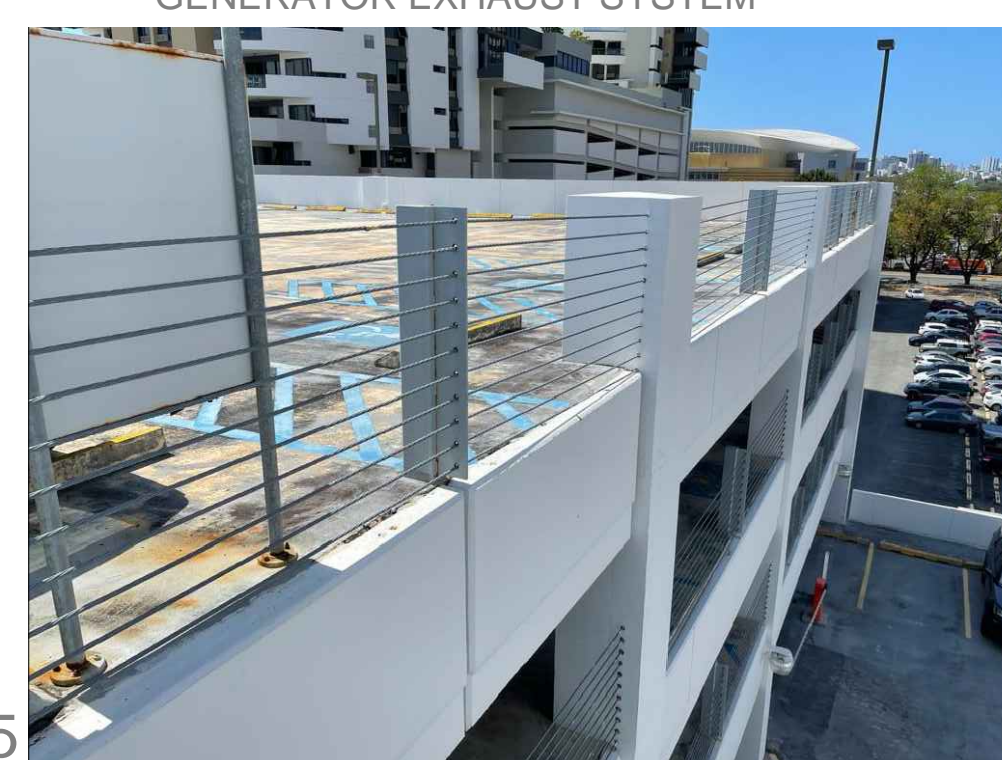
CORRODED STEEL ELEMENT

IMAGE 4



IMPROVEMENTS TO THE JOINT SYSTEM BETWEEN CONCRETE TILE AND THE GENERATOR EXHAUST SYSTEM

IMAGE 5



FLASHING INSTALATION RECOMENDED

PARKING AS- BUILT-SIXTH LEVEL

SCALE NTS





**GENERAL NOTES**

- CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING PARKING LOT WITH 3500 PSI PRESSURE WASHING PRIOR TO CORRECTION OF CRACKS AND APPLICATION OF NEW PRODUCT
- PLACE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION SUPPLEMENT TO THE MUTCD.
- PARKING LINE SHALL BE 4" WIDE AND PAINTED WITH REFLECTORIZED YELLOW TRAFFIC PAINT, WITH FINISHED APPLICATIONS NOT LESS THAN 3 MILS DRY THICKNESS. HANDICAPPED PARKING LINES & SYMBOL SHALL BE PAINTED BLUE.

DIMENSIONS	
FLOOR AREA	70,064 P/C
PARKING NUMBER	247

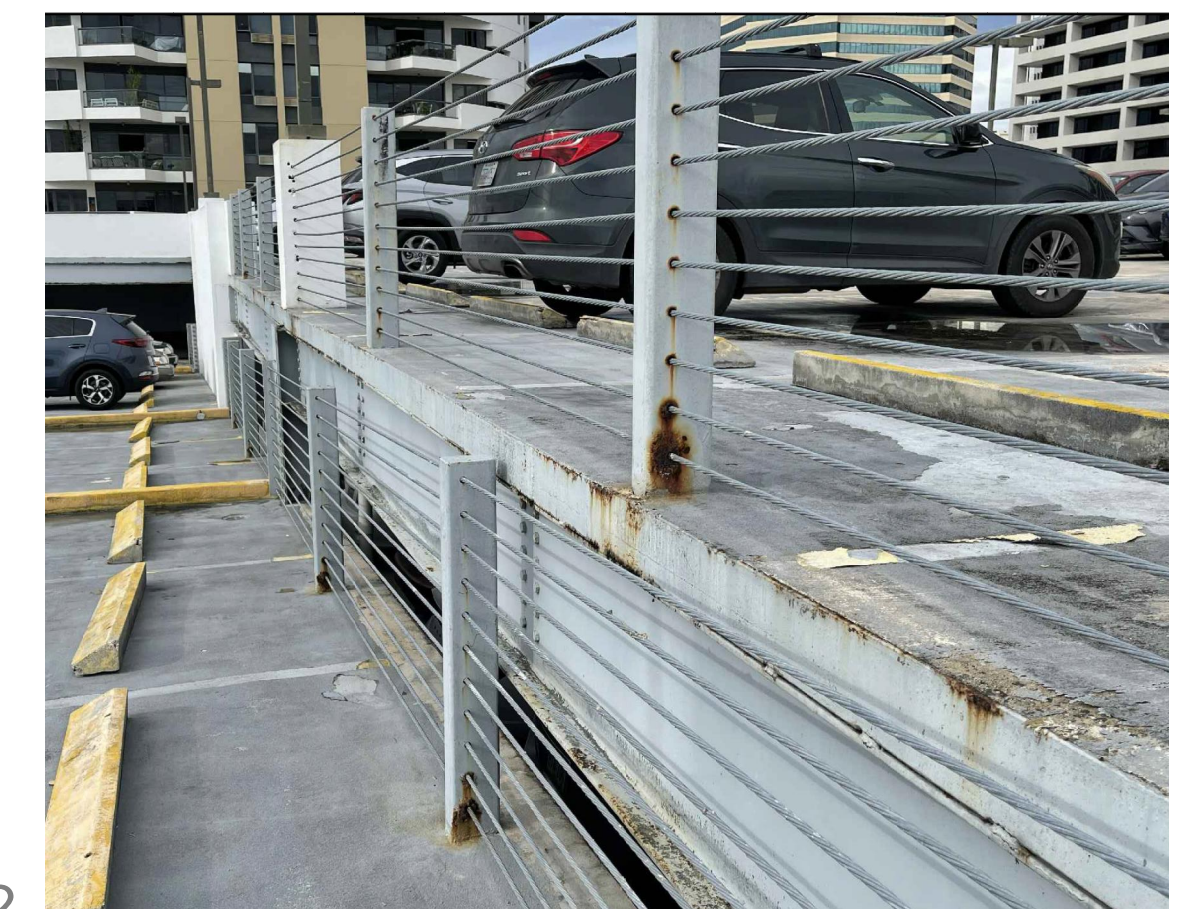
PHOTO DOCUMENTATION

DAMAGE 1



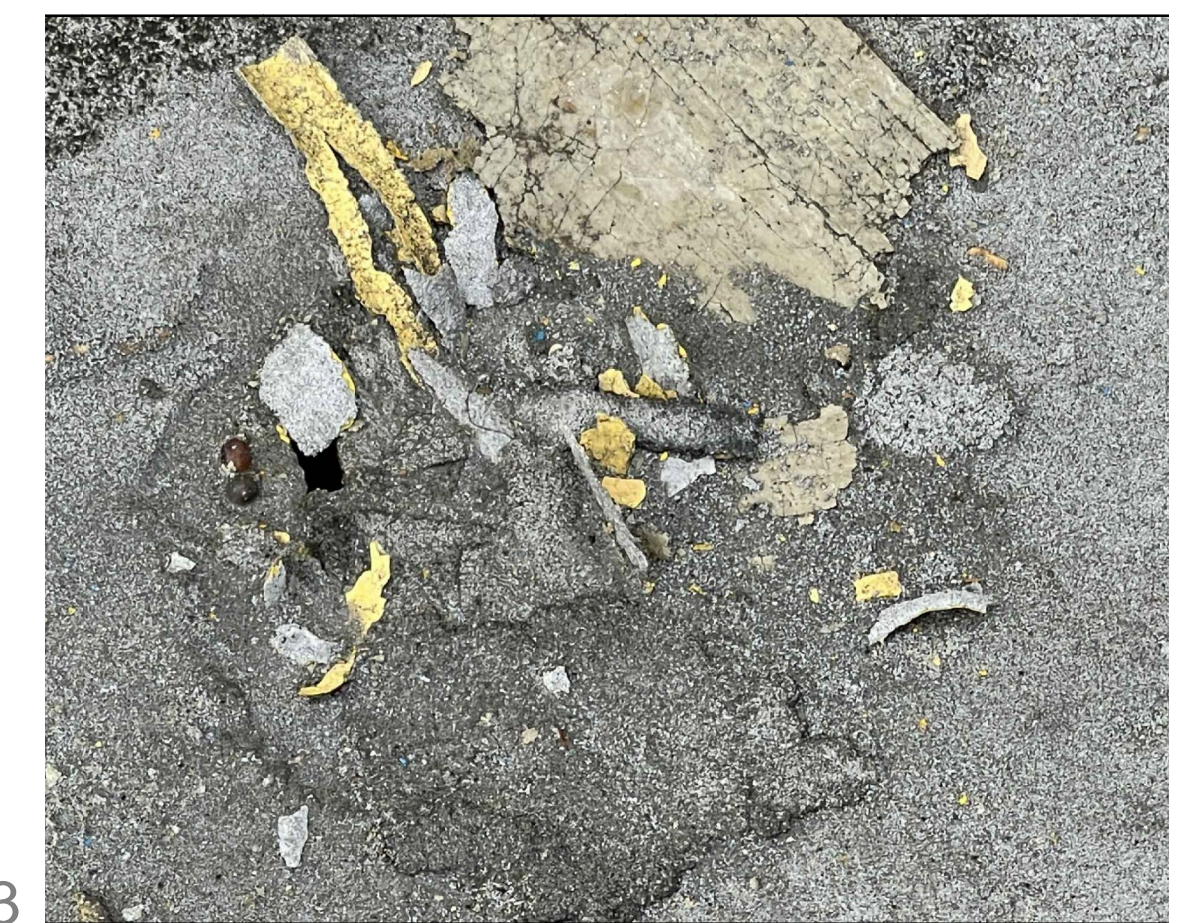
SIXTH FLOOR GENERAL VIEW

DAMAGE 2



FLOOR CRACKS

DAMAGE 3



CORROSION CAUSED BY THREE EXHAUST PIPES AT EAST FACADE

ADDRESS  
268 AVE. MUÑOZ RIVERA  
SAN JUAN P.R.

OWNER  
PODER JUDICIAL

REGISTER NO.  
063-031-639-02

REVISIONS  
REV. DATE DESCRIPTION BY CHK'D

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SIGNATURE



FILE  
Dwg Name: INTL6.dwg  
Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
Revised by: Eng. W. Meléndez Rivas #16383  
Plot Scale:  
Progress Print: May 11, 2022

TITLE

STRUCTURAL RECOMMENDATION-SIXTH LEVEL

DRAWING NO.  
A-105

PAGE: 23/30

STRUCTURAL RECOMMENDATIONS-SIXTH LEVEL

SCALE NTS



ADDRESS  
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Dwg Name: INTL6.dwg  
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Revised by: Eng. W. Meléndez Rivas #16383  
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Progress Print: May 11, 2022

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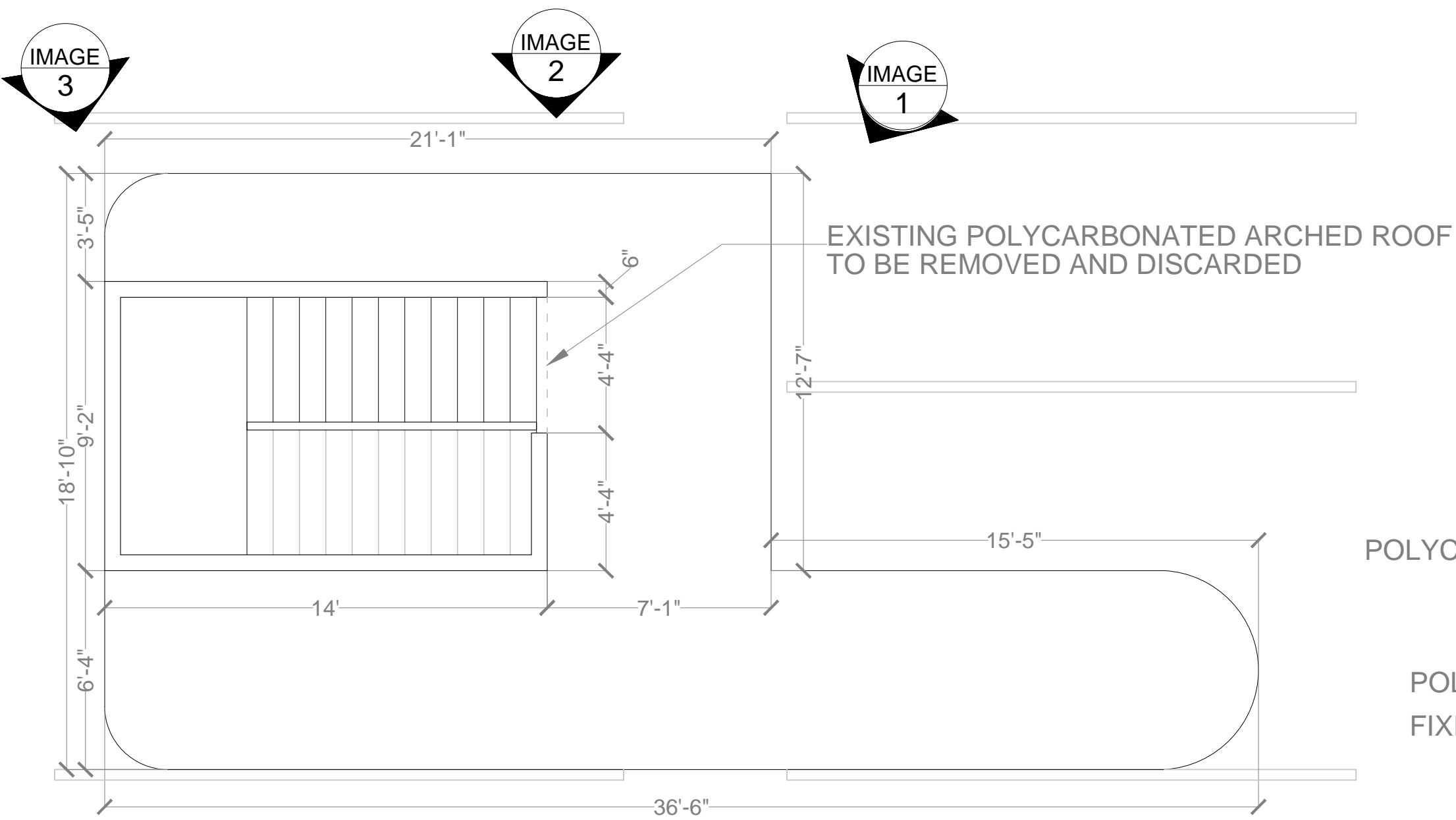
C6 EXTERIOR STAIR  
PROPOSAL-SIXTH LEVEL

DRAWING NO.

A-106

PAGE: 24/30

PLAN VIEW



EXISTING EXTERIOR STAIRS

SCALE: 1/4" = 1'-0"

1  
A-106



IMAGE 1



IMAGE 2

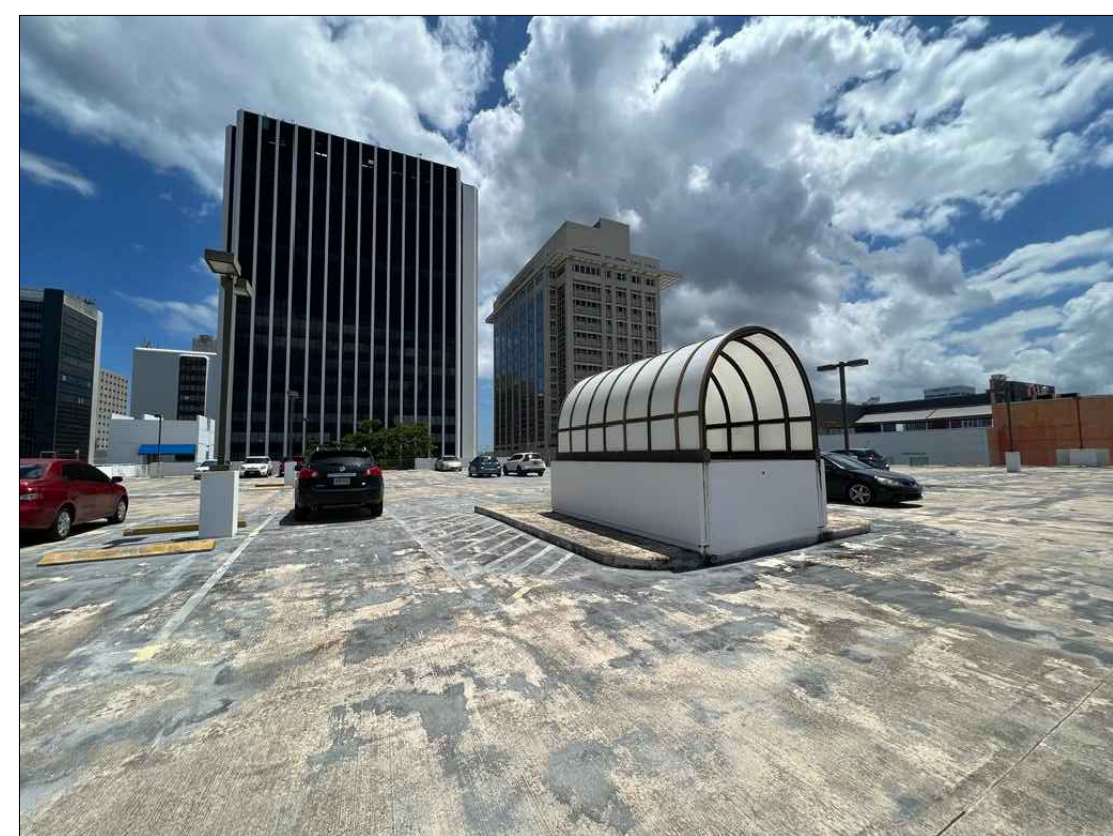
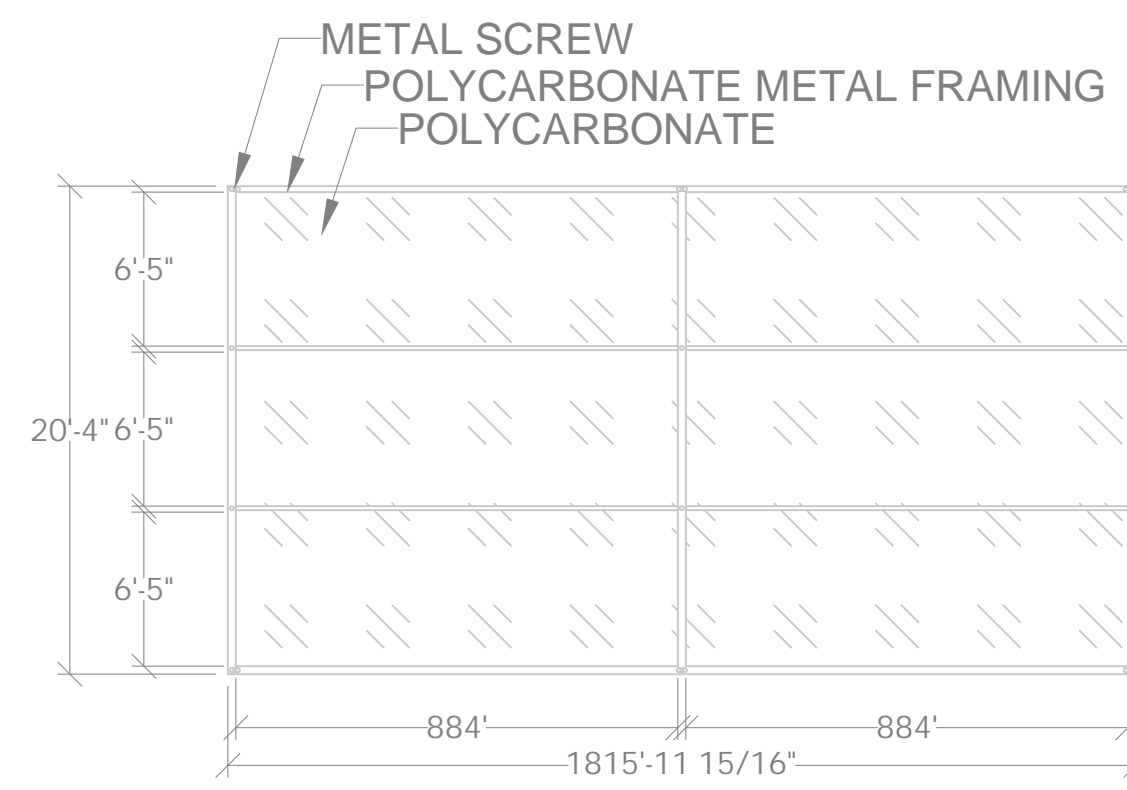
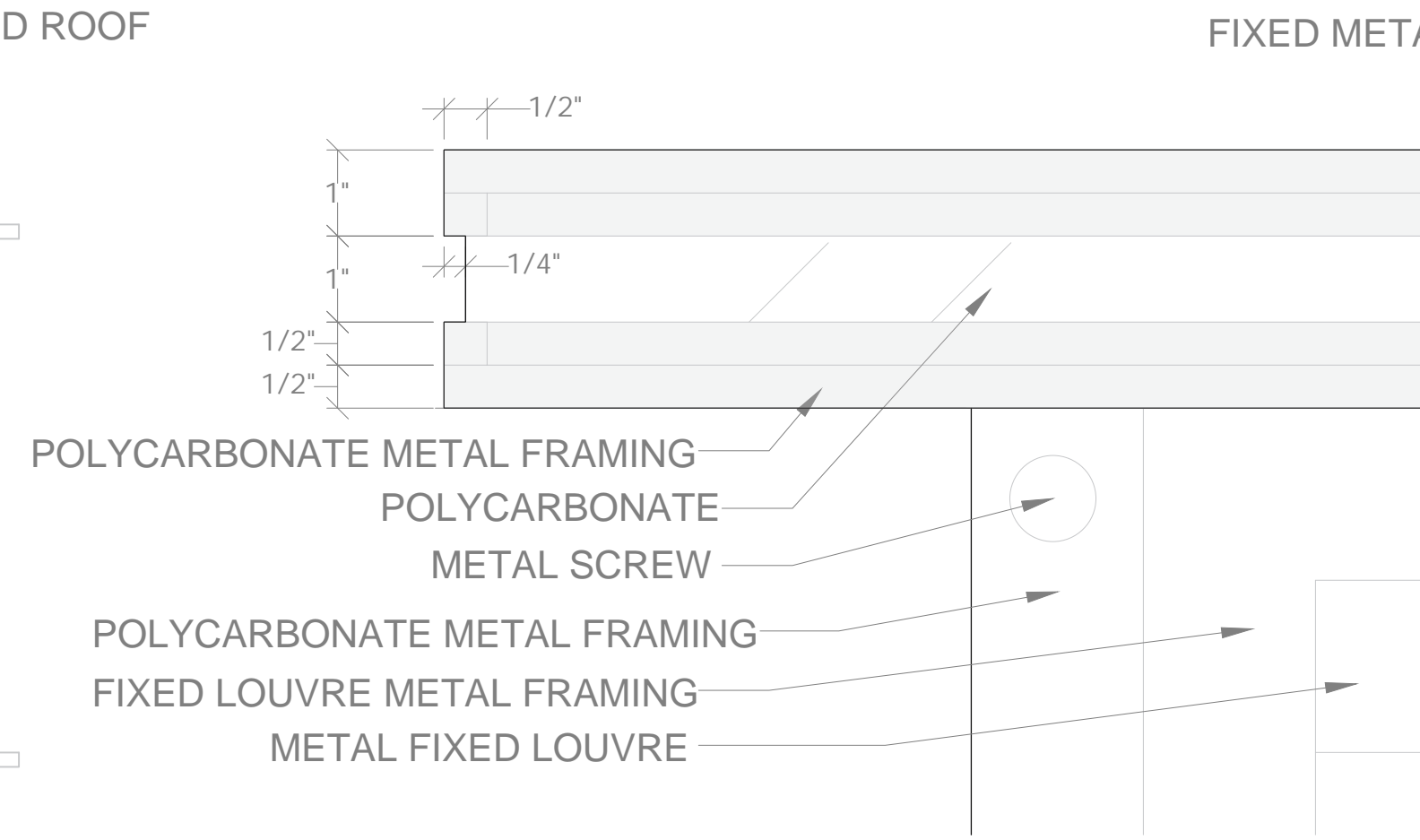


IMAGE 3



DETAIL 3

SCALE NTS



DETAIL 1

SCALE NTS



DETAIL 2: METAL FIXED LOUVRES

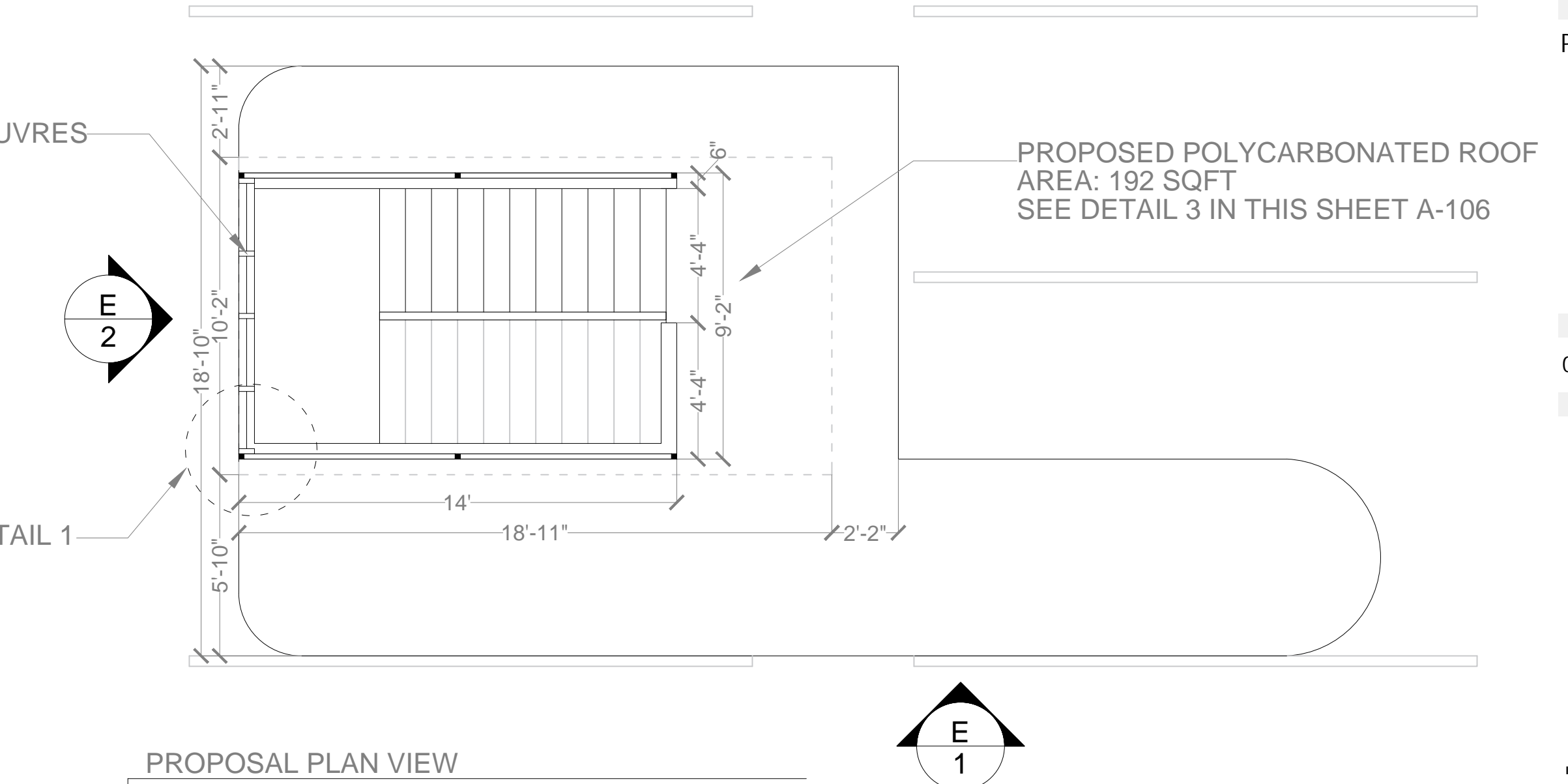
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FIXED METAL LOUVRES

DETAIL 1

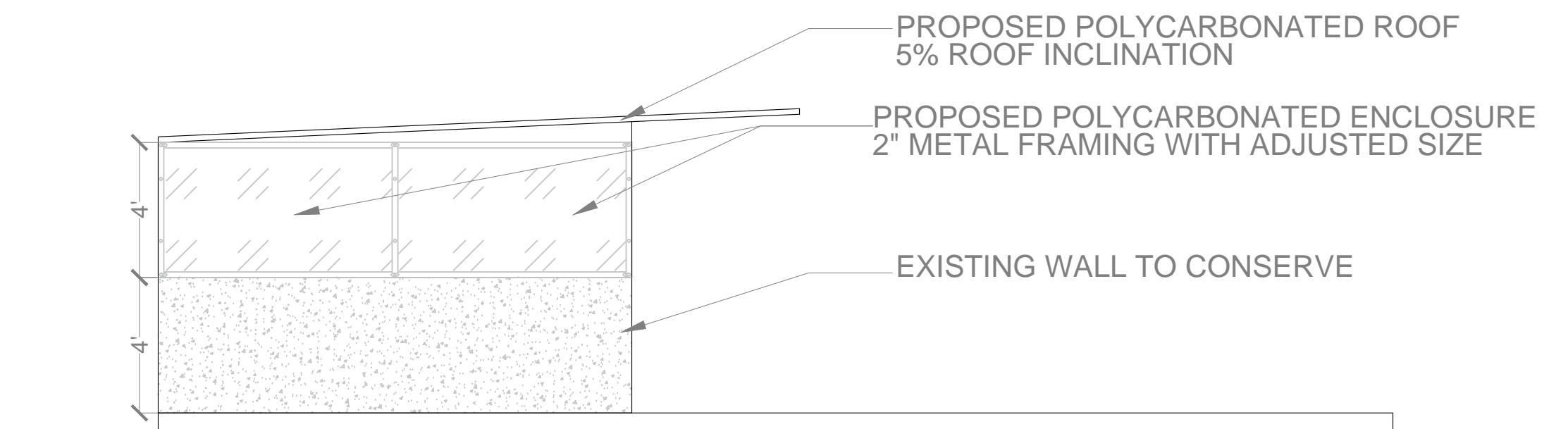
PROPOSAL PLAN VIEW

SCALE: 1/4" = 1'-0"



ELEVATION 2

SCALE: 1/4" = 1'-0"

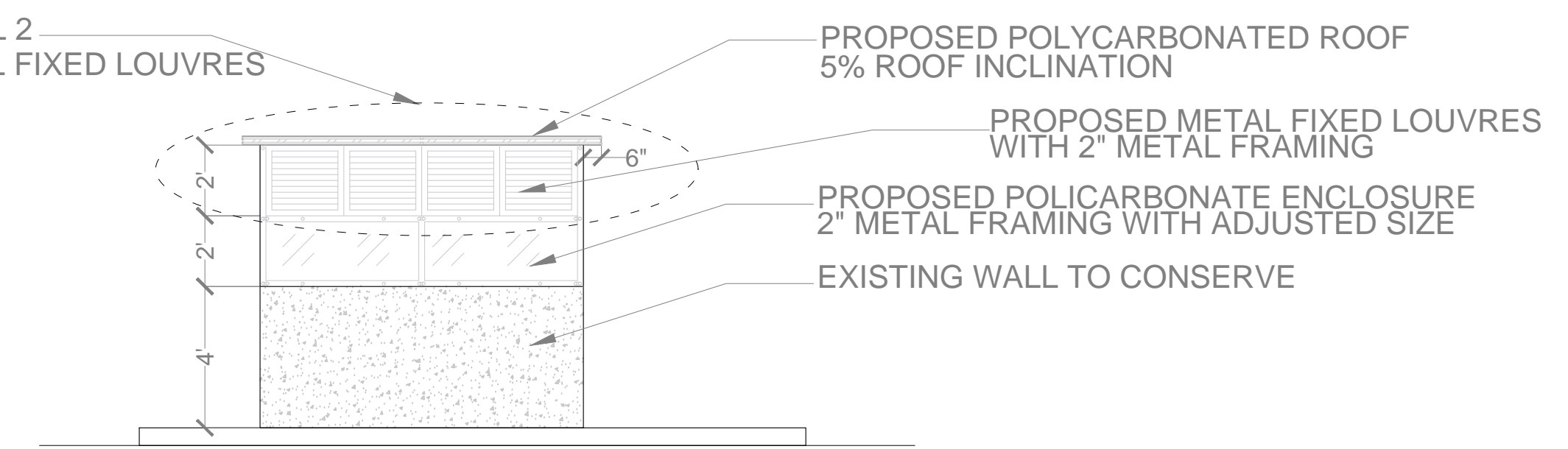


DETAIL 2

METAL FIXED LOUVRES

ELEVATION 2

SCALE: 1/4" = 1'-0"



IMPORTAT NOTE: THE DRAWINGS PRESENTED ON THIS SHEET ARE SCHEMATIC. CONTRACTOR SHALL SUBMIT DRAWINGS OF THE 6TH LEVEL CEILING DESIGN TO THE DESIGNER SHOP FOR FINAL APPROVAL.

EXISTING CONDITIONS AND PHOTODOCUMENTATION

SCALE NTS

PROPOSED POLYCARBONATE ROOF

SCALE NTS



SIXTH LEVEL EXISTING LIGHTING - WORLD PLAZA PARKING LOT IMPROVEMENT



LEGEND			
TYPE	CONDITION	QTY	DESCRIPTION
	EXISTING LIGHTING	30	EXISTING LIGHTING

- GENERAL NOTES
1. LIGHTING REPLACEMENT WORK INCLUDES THE REMOVAL AND DISPOSAL OF EXISTING LIGHTS.
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  4. OUTDOOR SPOTLIGHT IP-66.
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REVISIONS				
REV.	DATE	DESCRIPTION	BY	CHK'D

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SIGNATURE



FILE

Dwg Name: WEL6.dwg  
Drawn by: INGENIUM PROFESSIONAL GROUP.PSC  
Revised by: Erg. W. Melendez Rivera #16383  
Plot Scale:  
Progress Print: May 11, 2022

TITLE

EXISTING LIGHTING-SIXTH LEVEL

EXISTING LIGHTING-SIXTH LEVEL

SCALE NTS

DRAWING NO.  
E-110

PAGE: 25/30



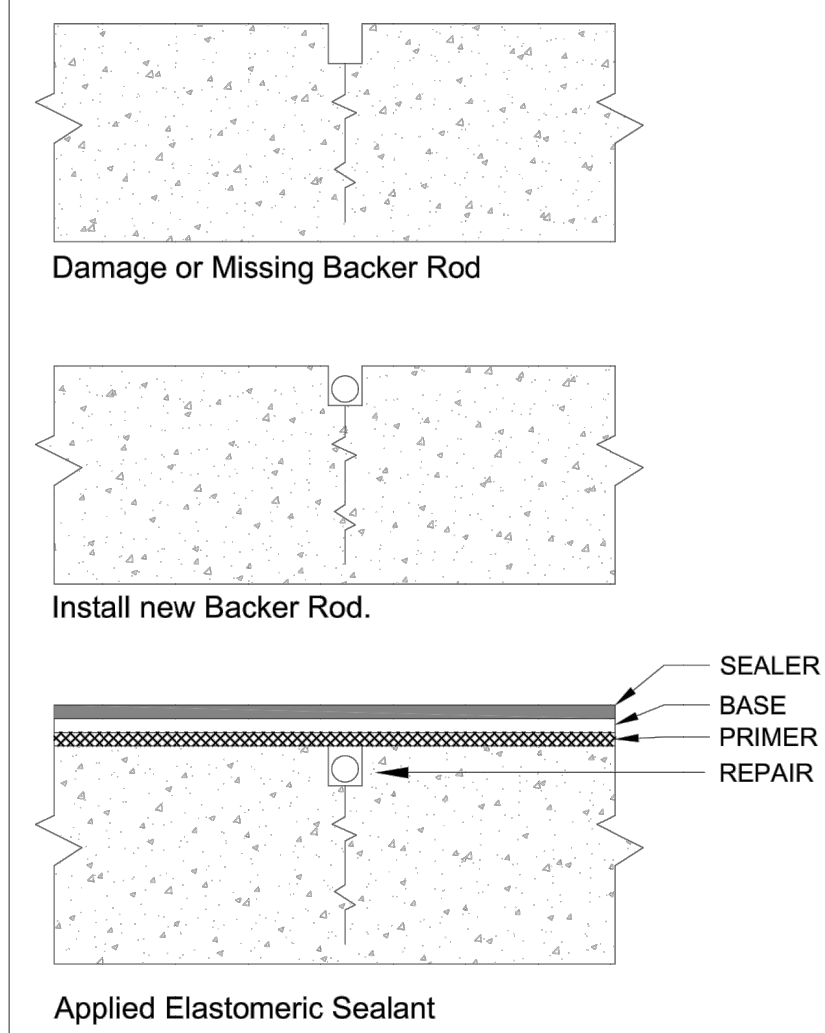
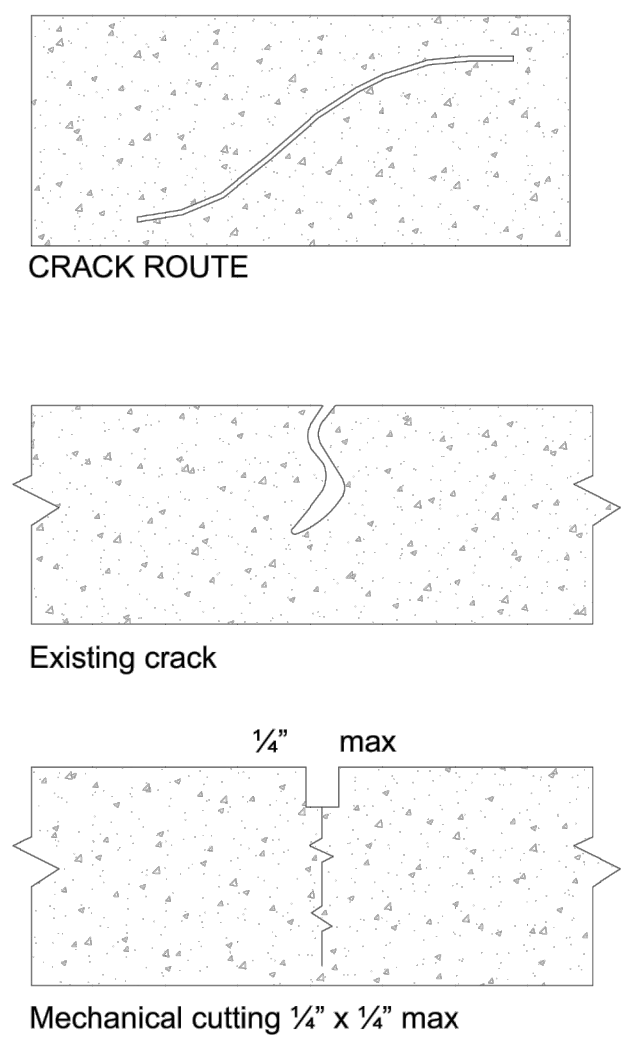




REPAIR PROCEDURE FOR DINAMIC CRACK (ROUTING AND SEALING)

A-7

REPAIR PROCEDURE FOR DAMAGE OR MISSING BACKER ROD



METHODS FOR CRACK REPAIR AND FLUID – APPLIED VEHICULAR TRAFFIC AND WATERPROFF COATING SYSTEMS

Reference:  
 ASTM C 801 Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete  
 ASTM D 920 Standard Specification for Elastomeric Joint Sealants  
 ACI 224 Joints in Concrete Construction  
 ACI 503 R Use of Epoxy Compounds with concrete

1) Epoxy injection  
 Cracks as narrow as 0.002 in. can be bonded by the injection of epoxy ("Crack Repair Method). The technique consists of establishing entry and venting ports at close intervals along the cracks, sealing the crack on exposed surfaces, and injecting the low-density epoxy under pressure. Epoxy materials used for structural repairs should conform to ASTM C 881 (Type IV). ACI 504R describes practices for sealing joints, including joint design, available materials, and methods of application.

- Cleaning the cracks. Clean any cracks that have been contaminated. Contaminants, such as oil, grease, dirt, or fine particles of concrete, prevent epoxy penetration and bonding, and reduce the effectiveness of repairs. Preferably, contamination should be removed by vacuuming or flushing with water or other effective cleaning solutions. Flushed out using compressed air and a neutralizing agent or adequate time is provided for air drying.
- Sealing the surfaces. Surface cracks should be sealed to keep the epoxy from leaking out before it has gelled. Where the crack face cannot be reached, but where there is backfill or where a slab-on-ground is being repaired, the backfill material or subbase material is sometimes an adequate seal. Extreme caution should be exercised when injecting cracks that are not visible on all surfaces. A surface can be sealed by applying an epoxy, polyester, or other appropriate sealing material to the surface of the crack and allowing it to harden. If a permanent glossy appearance along the crack is objectionable and if high injection pressure is not required, a strippable plastic surface sealer may be applied along the face of the crack.
- Mixing the epoxy. Follow the manufacturer instruction. Mixing is done by batch or continuous methods. In batch mixing, the adhesive components are premixed according to the manufacturer's instructions, usually with the use of a mechanical stirrer, like a paintmixing paddle. Care should be taken to mix only the amount of adhesive that can be used before commencement of gelling of the material. When the adhesive material begins to gel, its flow characteristics begin to change, and pressure injection becomes more and more difficult. In the continuous mixing system, the two liquid adhesive components pass through metering and driving pumps before passing through an automatic mixing head.

2) Routing and Sealing  
 Routing and sealing cracks can be used in conditions requiring repair where structural repair is not necessary. This method involves enlarging the crack along its exposed face and filling and sealing it with a suitable joint sealant. Routing and sealing can be accomplished on vertical surfaces (with a non-sag sealant) as well as on curved surfaces (pipes, piles, and poles). Routing and sealing are used to treat both narrow and wide cracks. A common and effective use is for waterproofing by sealing cracks on the concrete surface where water stands or where hydrostatic pressure is applied. This treatment reduces the ability of moisture to reach the reinforcing steel or pass through the concrete, causing surface stains or other problems. The sealants may be any of several materials, including epoxies, urethanes, silicones, polysulfides, asphaltic materials, or polymer mortars. Cement grouts should be avoided due to the likelihood of cracking. The sealant should be sufficiently rigid to support the anticipated traffic. Routing and sealing consist of preparing a vertical walled groove at the surface typically ranging in depth from 1/4 to 1 in. A concrete saw or right-angle grinder may be used. The groove is then cleaned by air blasting, sandblasting, or water blasting, and dried. A sealant is placed into the dry groove and allowed to cure. A variation of this procedure is to provide load transfer by having epoxy fill or partially fill the crack by gravity. The vertical-walled groove is used as a reservoir for epoxy that is selected for an appropriate viscosity. The final step is to fill the vertical-walled groove with a high-viscosity, rigid epoxy. Active cracks should be repaired using a bond breaker at the base of the routed channel. A flexible sealant is then placed in the routed channel. It is important that the width-to-depth ratio of the channel is usually 2 or more. This permits the sealant to respond to movement of the crack with high extensibility. In some cases, over banding (backer rod) is used independently of or in conjunction with routing and sealing. This method is used to enhance protection from edge spalling and, for aesthetic reasons, to create a more uniform-appearing treatment. A typical procedure for over banding is to prepare an area approximately 1 to 3 in. (25 to 75 mm) on each side of the crack by sandblasting or other means of surface preparation and applying a coating (such as urethane) 0.04 to 0.08 in. (1 to 2 mm) thick in a band over the crack. Cracks subject to minimal movement may be over banded, but if significant movement can take place, routing and sealing should be used in conjunction with over banding to ensure a waterproof repair.

3) Gravity Filling  
 Gravity filling Low-viscosity epoxy, monomers and resins can be used to seal cracks with surface widths of 0.001 to 0.08 in. by gravity filling like High molecular-weight methacrylates, urethanes, and some low viscosity epoxy. The lower the viscosity, the finer the cracks that can be filled. The typical procedure is to clean the surface by air blasting, waterblasting, or both. Wet surfaces should be permitted to dry for several days to obtain the best crack filling. The material should be worked back and forth over the cracks to obtain maximum filling because the monomer or resin recedes slowly into the cracks. Excess material should be broomed off the surface to prevent slick, shining areas after curing. If the cracks contain significant amounts of silt, moisture, or other contaminants, the sealant cannot fill them take action with this. Water blasting followed by a drying time may be effective in cleaning and preparing these cracks.

4) Expansion Joint Backer Rod  
 This method involves remove the existing expansion joint material along the mechanical routing, filling and sealing it with a suitable backer rod or any acceptable expansion joint substrate. Joint width to depth ratio should be 2 to 1 with a minimum depth of 1/4" or a maximum depth of 1". The diameter of the backer rod should be 1/8" larger than the width of the joint.

5) Fluid-applied vehicular traffic coating system per manufacturer recommendation.

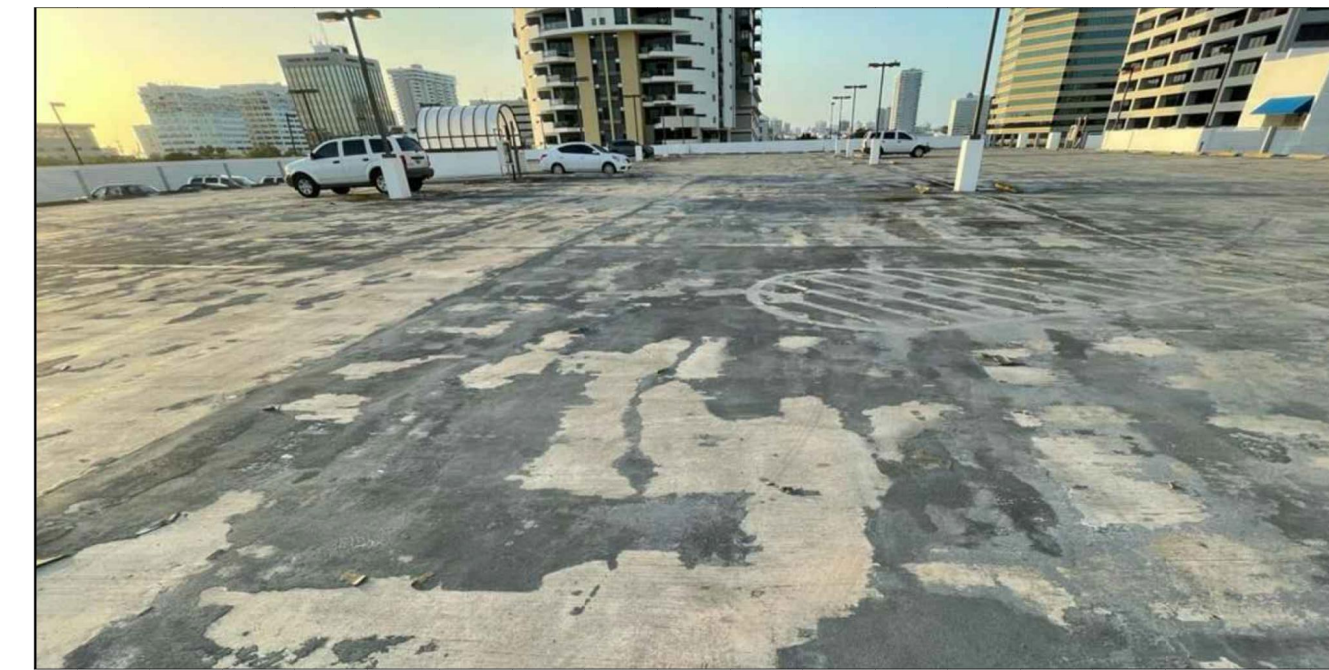
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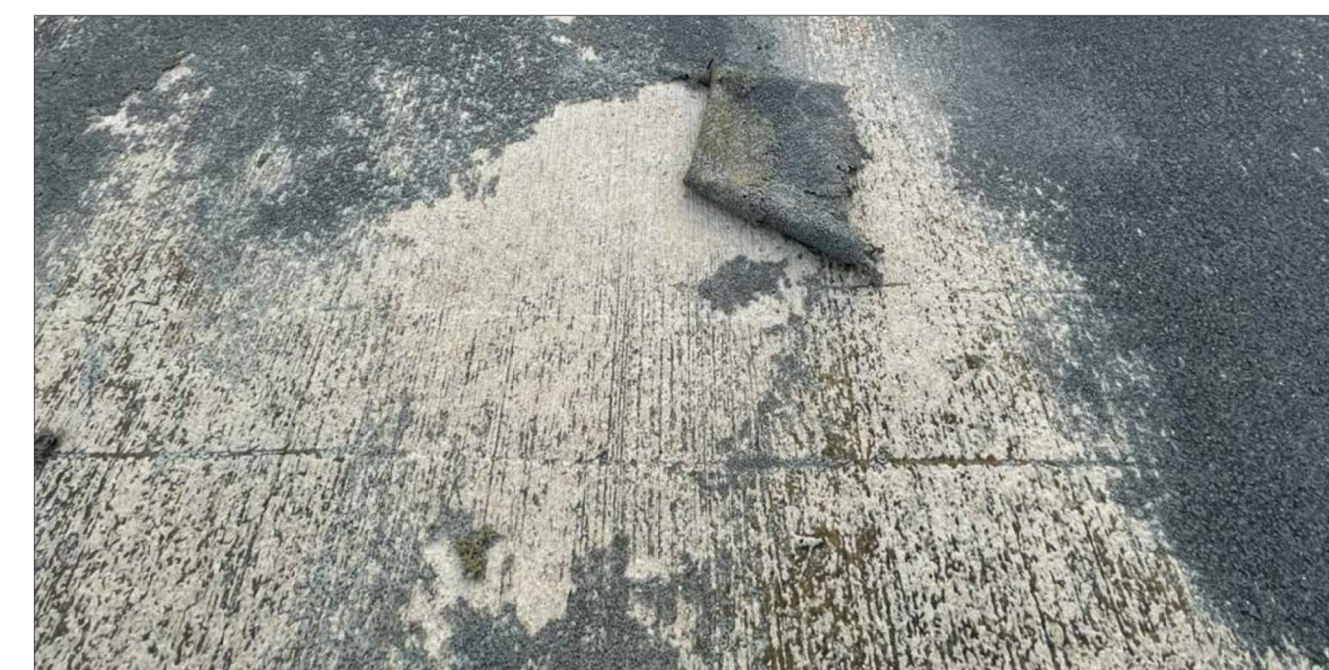
TYPICAL VIEW OF EXPANSION JOINT



TYPICAL VIEW WATER PONDING AREA



TYPICAL VIEW PARKING AREA

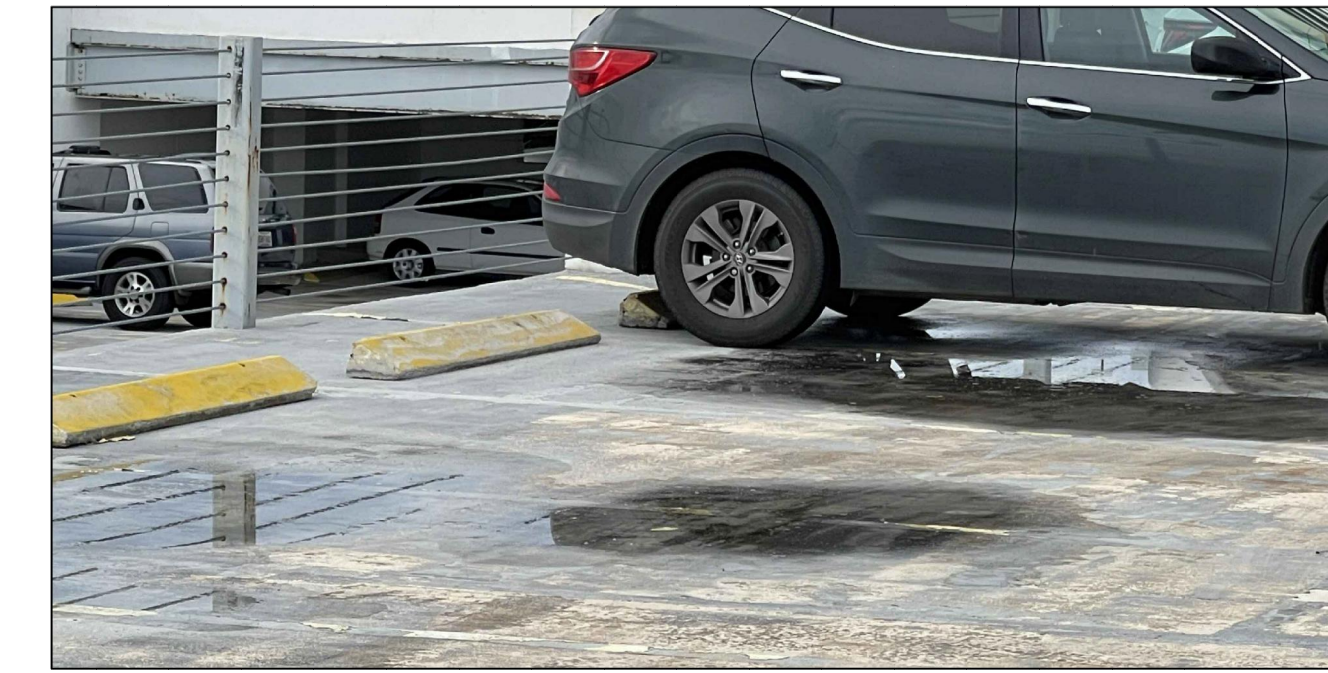


DAMAGE TRAFFIC SEALER SYSTEM

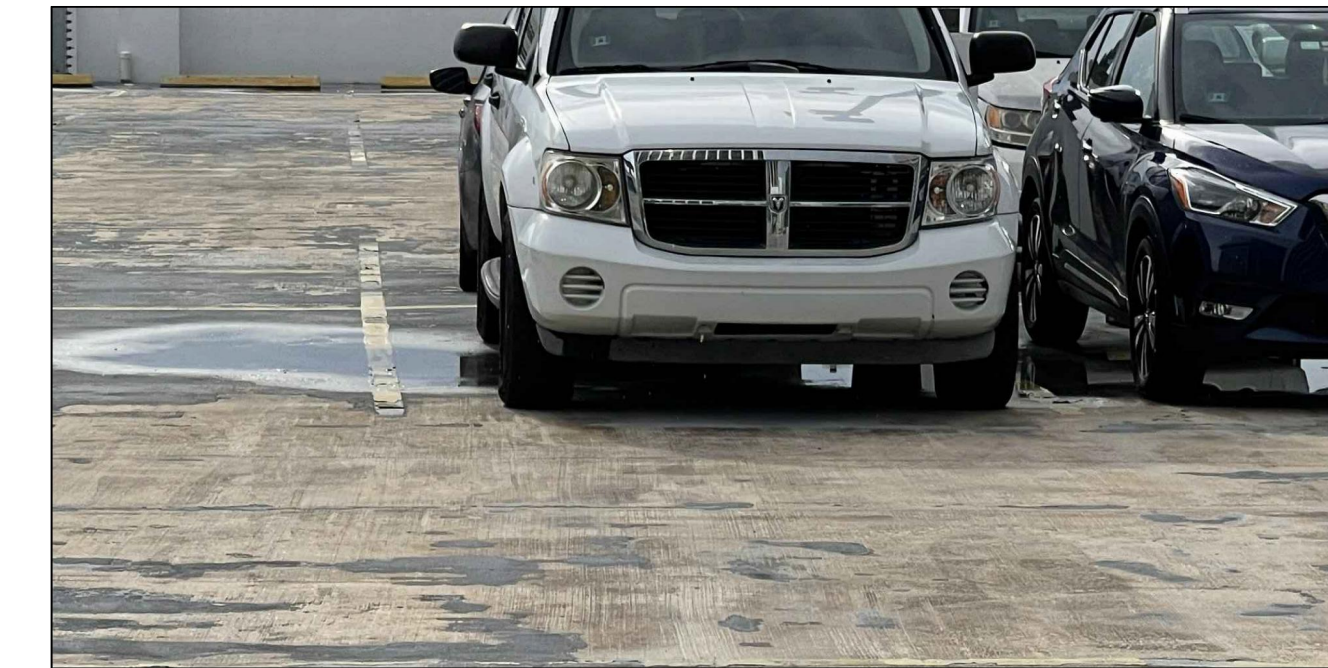


TYPICAL VIEW OF CRACKS

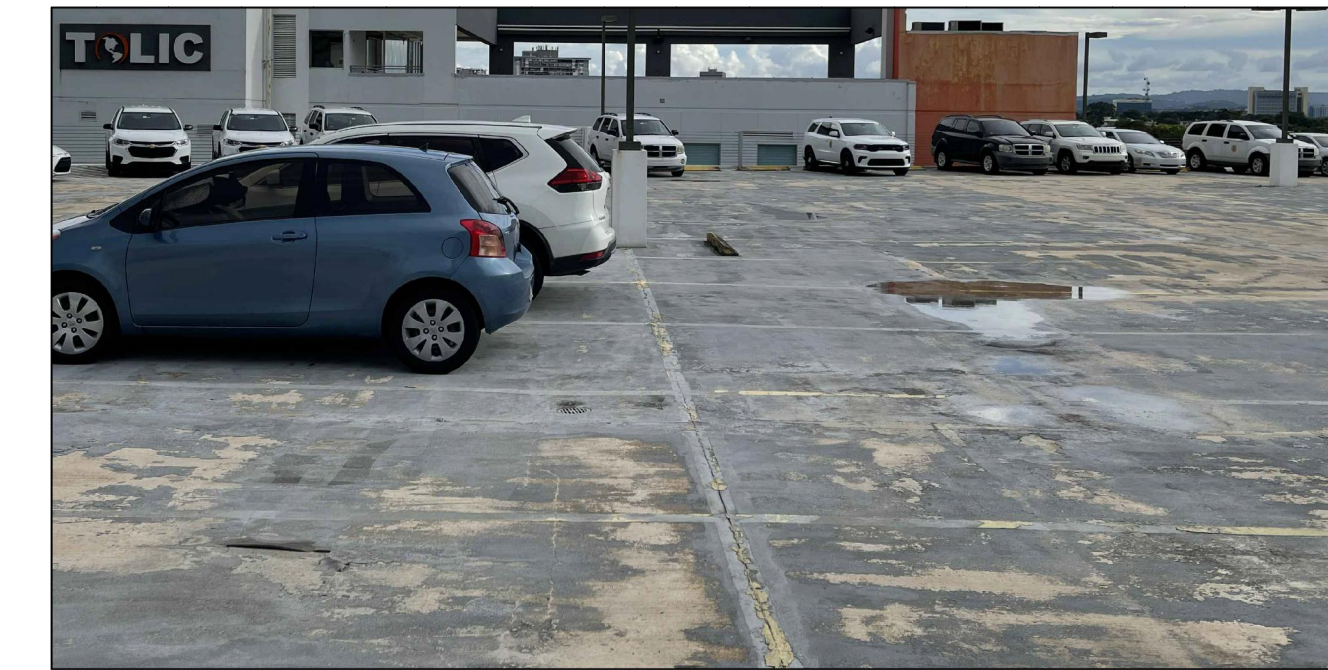
D-2



TYPICAL VIEW DRAINAGE PROBLEM



TYPICAL VIEW DRAINAGE PROBLEM



TYPICAL VIEW DRAINAGE PROBLEM



TYPICAL VIEW DRAINAGE PROBLEM



TYPICAL VIEW DRAINAGE PROBLEM

ADDRESS

268 AVE. MUÑOZ RIVERA  
 SAN JUAN P.R.

OWNER

PODER JUDICIAL

REGISTER NO.

0 6 3 - 0 3 1 - 6 3 9 - 0 2

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REV. DATE DESCRIPTION BY CHK'D

REV.	DATE	DESCRIPTION	BY	CHK'D

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK.

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CERTIFICATION

I, WILLIAM MELLENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO MADE, DESIGNED OR PREPARED THESE PLANS AND THE CORRESPONDING SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE GOVT. REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS BEEN COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE LAW FOR INVESTMENT OF THE HONORABLE MEXICAN PROPERTY AND WITH THE LAW NO. 319 OF MAY 15, 1938, AS AMENDED, ACT NO. 94 OF JULY 4, 1978, AS AMENDED, AS APPLICABLE. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY NEGLIGENCE OR RECKLESSNESS EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE GOVT.



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SIGNATURE



FILE

Dwg Name: WEL1.dwg  
 Drawn by: INGENIUM PROFESSIONAL GROUP PSC  
 Revised by: Engr. W. Melendez Rivas # 16383  
 Plot Scale:  
 Progress Print: May 11, 2022

TITLE

PROCEDURES

DRAWING NO.

C-500

PAGE: 27/30

PROCEDURES

SCALE NTS



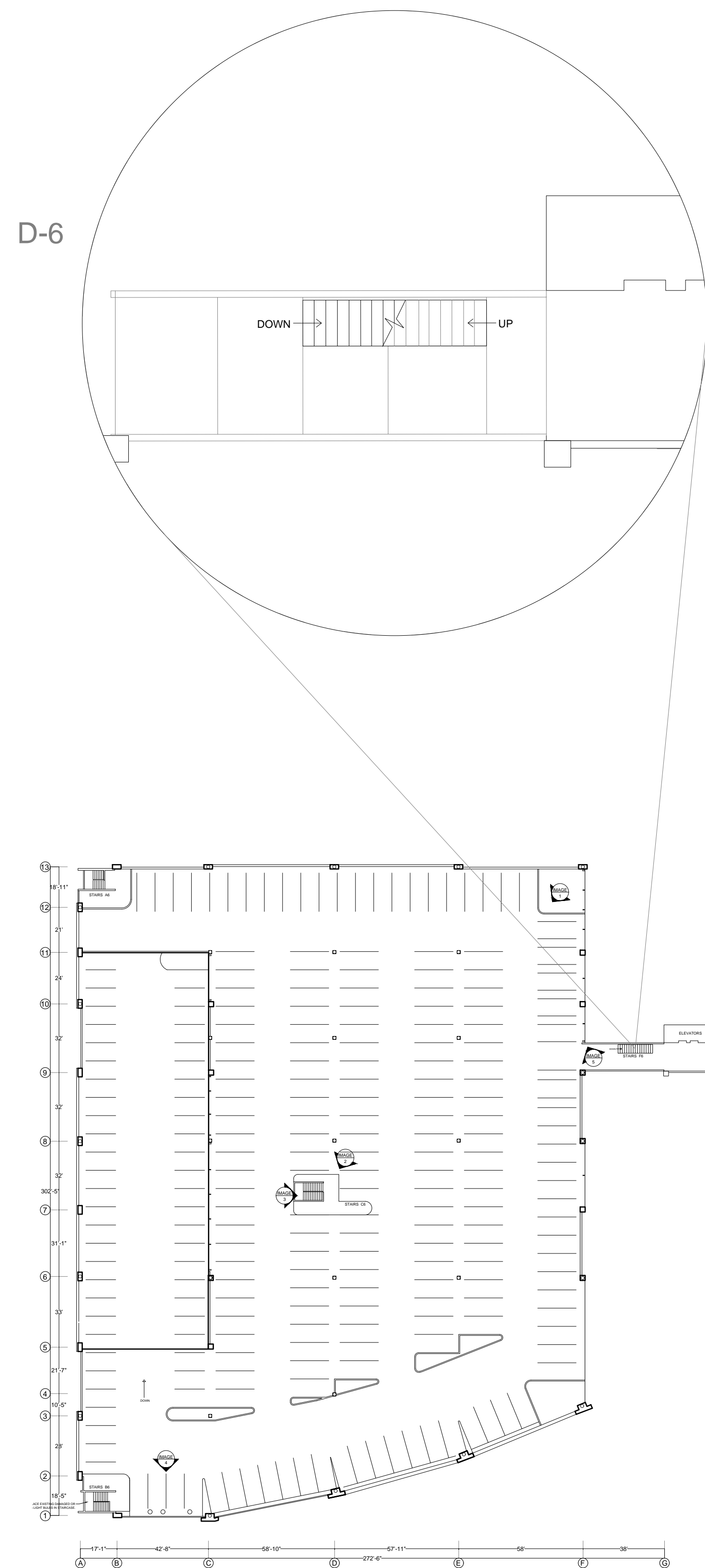








TYPICAL STRUCTURAL PHOTO DOCUMENTATION



TYPICAL VIEW



ELEMENTS WITH CORROSION AND PAINT DAMAGE

TYPICAL VIEW



WATER INTRUSION BETWEEN CONCRETE PARAPET AND STEEL

TYPICAL VIEW



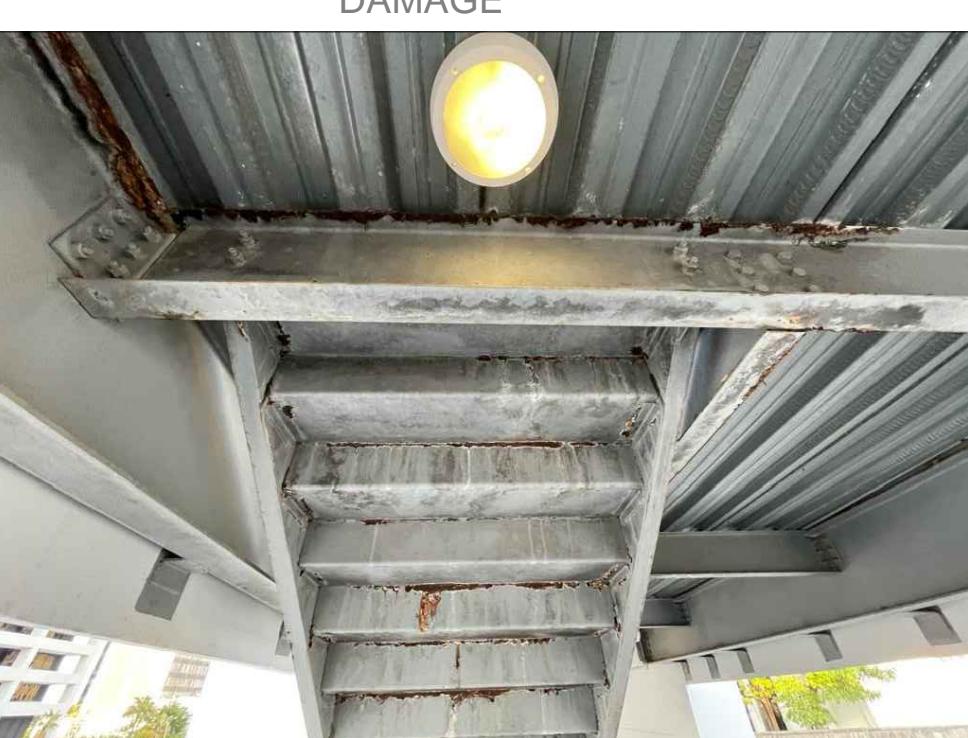
ELEMENTS WITH CORROSION AND PAINT DAMAGE

TYPICAL VIEW



ELEMENTS WITH CORROSION AND PAINT DAMAGE

TYPICAL VIEW



ELEMENTS WITH CORROSION AND PAINT DAMAGE

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SIGNATURE



FILE

Dwg Name: MLE.dwg  
Drawn by: INGENIUM PROFESSIONAL GROUP.PSC  
Revised by: Erg. W. Melendez Rivas, #16383  
Plot Scale:  
Progress Print: May 11, 2022

TITLE

STRUCTURAL DETAILS

DRAWING NO.

S-100