1600 50e Avenue - 2705.6 kW (dc)

1600 50e Avenue, Lachine, QC H8T 2V5

MECHANICAL PLAN SET BY:

KB RACKING INC.
1050 KING ST. W, SUITE 03A104
TORONTO, ON M6K 0C7

DRAWING INDEX

C-1.0 COVER SHEET

M-1.0 SITE PLAN & PROJECT SUMMARY

M-2.0 ROOF PLAN (LAYOUT)

M-3.0 LOAD REPORT

M-4.0 BALLAST PLAN

M-5.0 RAIL PLAN (IF APPLICABLE)

NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

ENGINEER'S SEAL

DRAWING TITLE: COVER PAGE

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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TORONTO, ONTARIO M6K 0C7
CANADA

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PROJECT NO.: -

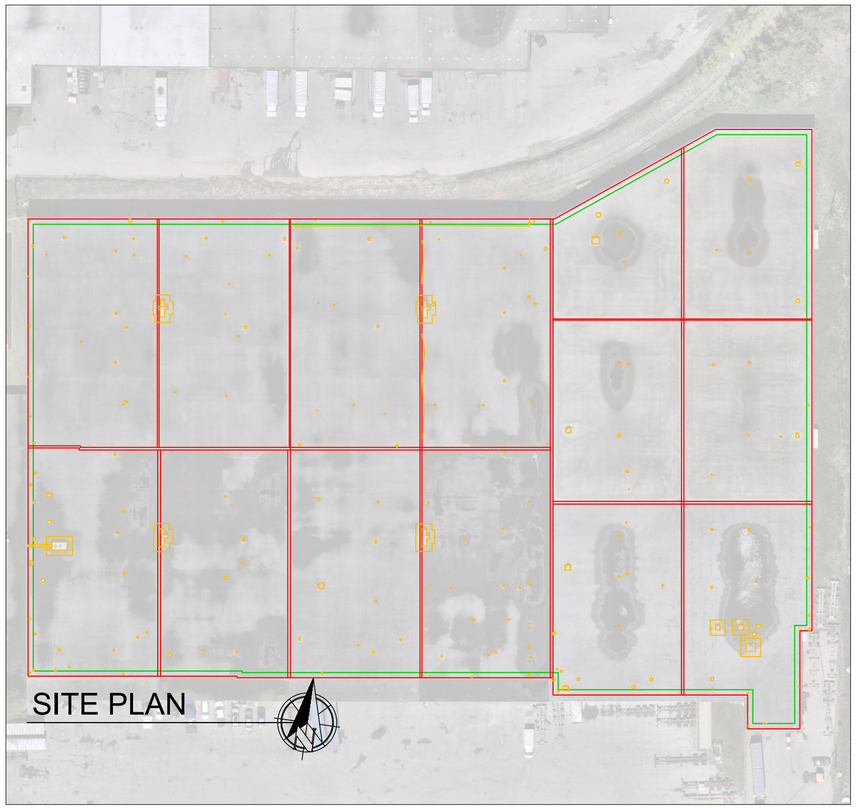
DATE: 2025/12/22

SHEET: 1 OF 85

DRAWING NO. C-1.0

Project Information	
Client Name	kWh Quebec Inc
Project Name	1600 50e Avenue
Project Address	1600 50e Avenue, Lachine, QC H8T 2V5
Total Panel Count	4329
Project Size (kW)	2705.6
System	
Panel Name	Jinko 625W
Panel Weight (kg)	32.4
Panel Length (mm)	2382
Panel Width (mm)	1134
Panel Thickness (mm)	30
Panel Power (W)	625
Panel Cell Type	72
System Orientation	Landscape
System Tilt (deg)	10
Racking Weight Per Panel (kg)	12.838644
System Row Spacing (m)	1.557
Inter-Row Spacing (m)	0.435
Reinforcement	NO
Environment	
Importance Category	Normal
Terrain Type	Rough
Wind Pressure: q50 (kPa)	0.44
Exposure Factor: Ce	0.7
Sea Level (ft)	0-999
LB Factor	24.28
Wind Load Factor: αw	1.4
Dead Load Factor: αD	0.9
Closeness Factor	1.0
RoofType	Custom
Friction Coefficient	0.68
Setback (m)	1.22

Buildings				
Building	Building Height (m)	Parapet (mm)	Wl (m)	Ws (m)
1	7.4	457.2	185	141



GENERAL NOTES:

1. THIS REPORT PROVIDES BALLAST AND LAYOUT INFORMATION FOR THE SOLAR SYSTEM.
2. SEE INSTALLATION DRAWINGS AND INSTALLATION LAYOUT FOR DIMENSIONS AND ARRAY INFO.
3. BALLAST SYSTEM IS DESIGNED BASED ON THE FOLLOWING REFERENCES:
   - 3.1 NATIONAL BUILDING CODE OF CANADA (NBCC) 2005, 2010 and 2015
     - Importance Category for buildings (Section 4.1.2.1)
     - Iw = Importance Factor for wind (Section 4.1.7.1)
     - Ce = Exposure Factor (Section 4.1.7.1)
     - aw = Wind Load Factor (Section 4.1.3.2)
     - aD = Dead Load Factor (Section 4.1.3.2)
   - 3.2 BRITISH COLUMBIA BUILDING CODE (BCBC) 2018
   - 3.3 NATIONAL BUILDING CODE - 2019 ALBERTA EDITION (2019 NBC(AE))
   - 3.4 ONTARIO BUILDING CODE (OBC) 2012
   - 3.5 KB RACKING ROOF-MOUNTED PV RACKING SYSTEMS WIND PRESSURE STUDY, RWDI #1600846, APRIL 21, 2023

*Ballast to Resist Uplift = (αw·Iw·q50·Ce·|CpCg|uplift·Auplift - αD·M)/αD

*Ballast to Resist Drag = [αw·q50·Ce·(1000/9.81)·[(CpCg)drag·Adrag·(1/fn)+|CpCg|uplift·Auplift] - αD·M]/αD

4. A PROFESSIONAL STRUCTURAL ENGINEER LICENSED WHERE THE RACKING SYSTEM WILL BE INSTALLED IS REQUIRED TO APPROVE THE DESIGN.
5. THE STRUCTURAL ENGINEER OF THE BUILDING IS RESPONSIBLE TO CHECK THE ADEQUACY OF THE BUILDING'S STRUCTURAL CAPACITY TO SUPPORT THE LOADS INDICATED ON THIS DRAWING.
6. THE MOUNTING SYSTEM SHALL BE INSTALLED AS PER KB RACKING SPECIFICATIONS AND PROCEDURES.
7. INSTALL THE SPECIFIED PHOTOVOLTAIC MODULES ONLY. ANY CHANGES IN THE MODULE SIZE OR TYPE MUST BE NOTIFIED TO KB RACKING INC.
8. ANY CHANGES IN THE MOUNTING SYSTEM LAYOUT IS NOT PERMITTED UNLESS APPROVED BY KB RACKING INC.

NOTE: AVERAGE PSF LOADS REPRESENT THE UNIFORMLY DISTRIBUTED LOAD IMPOSED BY THE RACKING INSTALLATION ON THE ROOF. AVERAGE LOADS SHOULD NOT BE USED FOR THE STRUCTURAL REVIEW OF THE SUPPORTING ROOF STRUCTURE WITHOUT CONSIDERATION FOR LOCALIZED PSF LOADS WHICH MAY BE MORE SIGNIFICANT. LOCALIZED PSF LOADS PER PANEL ARE ACCOMPANIED WITHIN THIS REPORT IN THE FOLLOWING PAGES.

KB RACKING INC. HAS NO LIABILITY FOR THE USE OF THIS REPORT BY THE CUSTOMER. THE CUSTOMER MAY CHOOSE TO CERTIFY THIS REPORT WITH A LICENSED STRUCTURAL ENGINEER NOT UNDER CONTRACT TO KB RACKING. IN THIS CASE, KB RACKING WARRANTY ASSIGNMENT IS CONTINGENT ON RECEIVING THE CERTIFIED REPORT AND/OR WRITTEN CONFIRMATION THAT THE STRUCTURAL ENGINEER HAS CERTIFIED THE REPORT. IF THERE ARE ANY QUESTIONS OR CONCERNS, PLEASE CONTACT KB RACKING INC.

LOADING INFORMATION

Array	Number of Panels	Array Area (m²)	Area Reduction Factor	Uplift Ballast (kg)	Drag Ballast (kg)	Additional Ballast per Panel Due to Drag (kg)	Total Ballast for Array (kg)	Average PSF
1	145	542.29	0.1266	2342.89	0.00	0.00	2342.89	3.37
2	138	516.11	0.1287	2383.90	26.20	0.00	2383.90	3.44
3	140	523.59	0.1281	1936.14	0.00	0.00	1936.14	3.25
4	139	519.85	0.1284	2040.39	11.71	0.00	2040.39	3.29
5	172	643.27	0.1185	2551.18	0.00	0.00	2551.18	3.30
6	83	310.41	0.1641	2979.96	1053.21	0.00	2979.96	4.46
7	201	751.72	0.1099	3341.73	0.00	0.00	3341.73	3.40
8	166	620.83	0.1203	2151.94	0.00	0.00	2151.94	3.20
9	136	508.63	0.1293	2193.86	54.55	0.00	2193.86	3.37
10	145	542.29	0.1266	2719.05	0.00	0.00	2719.05	3.51
11	143	534.81	0.1272	2344.58	0.00	0.00	2344.58	3.39
12	164	613.35	0.1209	3345.48	0.00	0.00	3345.48	3.60
13	171	639.53	0.1188	2989.74	0.00	0.00	2989.74	3.45
14	179	669.44	0.1164	3413.13	0.00	0.00	3413.13	3.53
15	152	568.47	0.1245	4030.36	0.00	0.00	4030.36	3.94
16	169	632.05	0.1194	2820.93	0.00	0.00	2820.93	3.40
17	170	635.79	0.1191	2474.33	0.00	0.00	2474.33	3.29
18	183	684.40	0.1152	2565.80	0.00	0.00	2565.80	3.26
19	155	579.69	0.1236	2824.07	0.00	0.00	2824.07	3.49
20	185	691.88	0.1146	3783.04	0.00	0.00	3783.04	3.61
21	176	658.22	0.1173	2220.70	0.00	0.00	2220.70	3.18
22	195	729.28	0.1117	2173.19	0.00	0.00	2173.19	3.10
23	161	602.13	0.1218	2046.15	0.00	0.00	2046.15	3.18
24	180	673.18	0.1161	3612.98	0.00	0.00	3612.98	3.58
25	163	609.61	0.1212	2900.73	0.00	0.00	2900.73	3.47
26	131	489.93	0.1318	2481.95	168.27	0.00	2481.95	3.53
27	187	699.36	0.1141	3698.33	0.00	0.00	3698.33	3.57
Total	4329		Total Ballast Weight	74366.53		Total System Weight	270204.43	

NOTE:
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DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
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Setback from edge: 1.22m

ENGINEER'S SEAL

DRAWING TITLE: SITE PLAN-PROJECT SUMMARY

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
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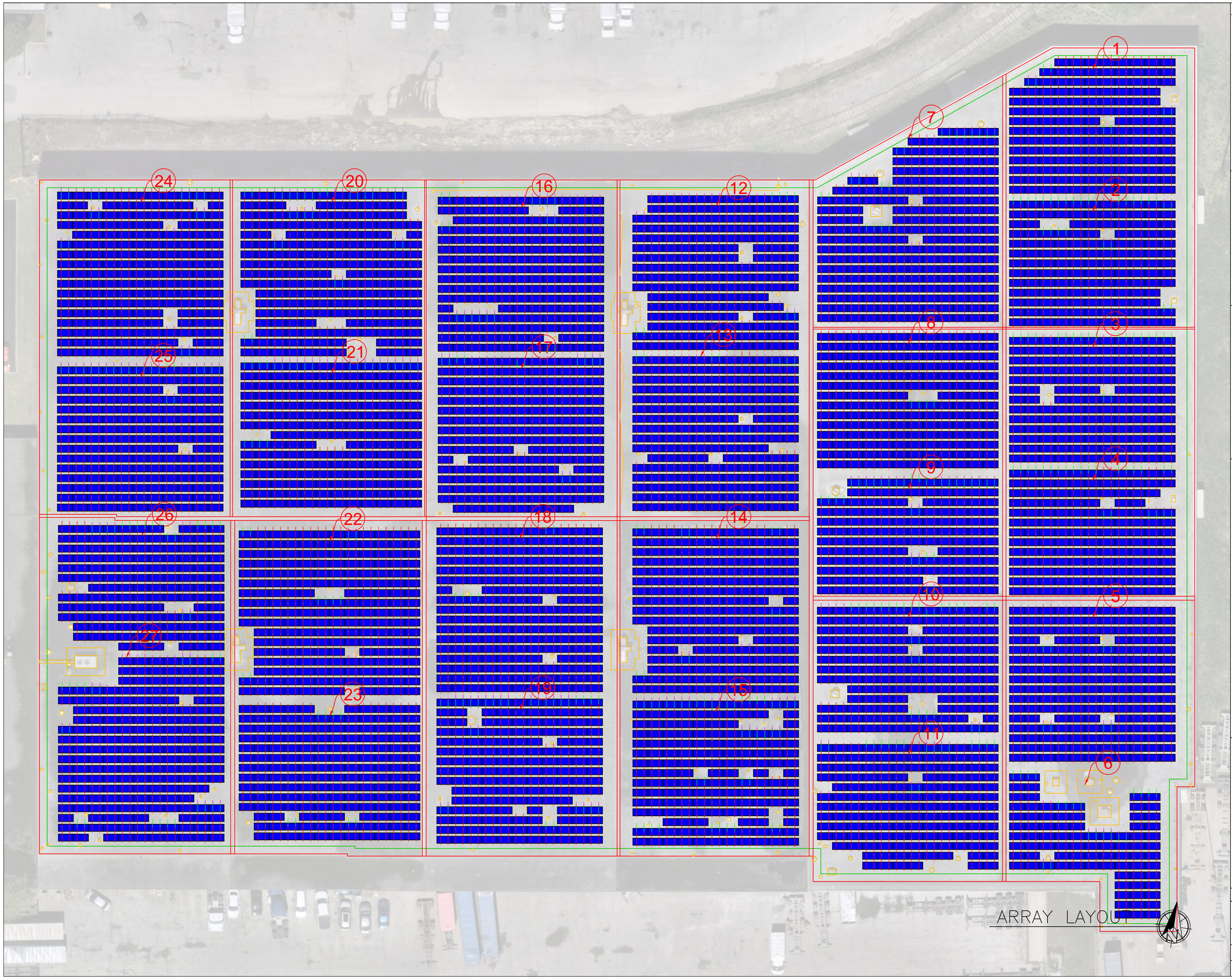
PROJECT NO.: -
DATE: 2025/12/22
SHEET: 2 OF 85
DRAWING NO. M-1.0



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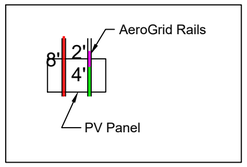
LEGEND



ENGINEER'S SEAL

DRAWING TITLE: ROOF PLAN

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

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PROJECT NO.: -

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SHEET: 3 OF 85

DRAWING NO. M-2.0

NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

Array 1
145 Panels

			54 (5.4)	54 (5.4)	25 (3.8)	5 (2.8)	5 (2.8)	25 (3.8)	42 (4.8)	42 (4.8)
		54 (5.4)	43 (4.8)	25 (3.8)	5 (2.8)	5 (2.8)	5 (2.8)	25 (3.8)	33 (4.3)	42 (4.8)
	42 (4.8)	33 (4.3)	18 (3.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	18 (3.5)	33 (4.3)	54 (5.4)
42 (4.8)	33 (4.3)	18 (3.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	10 (3.0)	41 (4.7)	48 (5.1)	
42 (4.8)	33 (4.3)	10 (3.0)	0 (2.5)	0 (2.5)	0 (2.5)	5 (2.8)	3 (2.6)	41 (4.7)	48 (5.1)	
37 (4.5)	31 (4.2)	3 (2.6)	0 (2.5)	0 (2.5)	0 (2.5)	5 (2.8)	0 (2.5)	3 (2.6)	31 (4.2)	54 (5.4)
37 (4.5)	31 (4.2)	3 (2.6)	0 (2.5)	11 (3.1)	19 (3.5)		19 (3.5)	31 (4.2)	31 (4.2)	42 (4.8)
19 (3.5)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	5 (2.8)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
19 (3.5)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	5 (2.8)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
19 (3.5)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
19 (3.5)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	10 (3.0)	31 (4.2)	37 (4.5)
19 (3.5)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	18 (3.5)	31 (4.2)	37 (4.5)
19 (3.5)	11 (3.1)	5 (2.8)	5 (2.8)	5 (2.8)	5 (2.8)	5 (2.8)	5 (2.8)	25 (3.8)	31 (4.2)	37 (4.5)
28 (4.0)	28 (4.0)	5 (2.8)	5 (2.8)	5 (2.8)	5 (2.8)	5 (2.8)	5 (2.8)	25 (3.8)	42 (4.8)	42 (4.8)

LEGEND

Wind Load (kg)
60 (4.5)
Pressure (psf)

ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 1

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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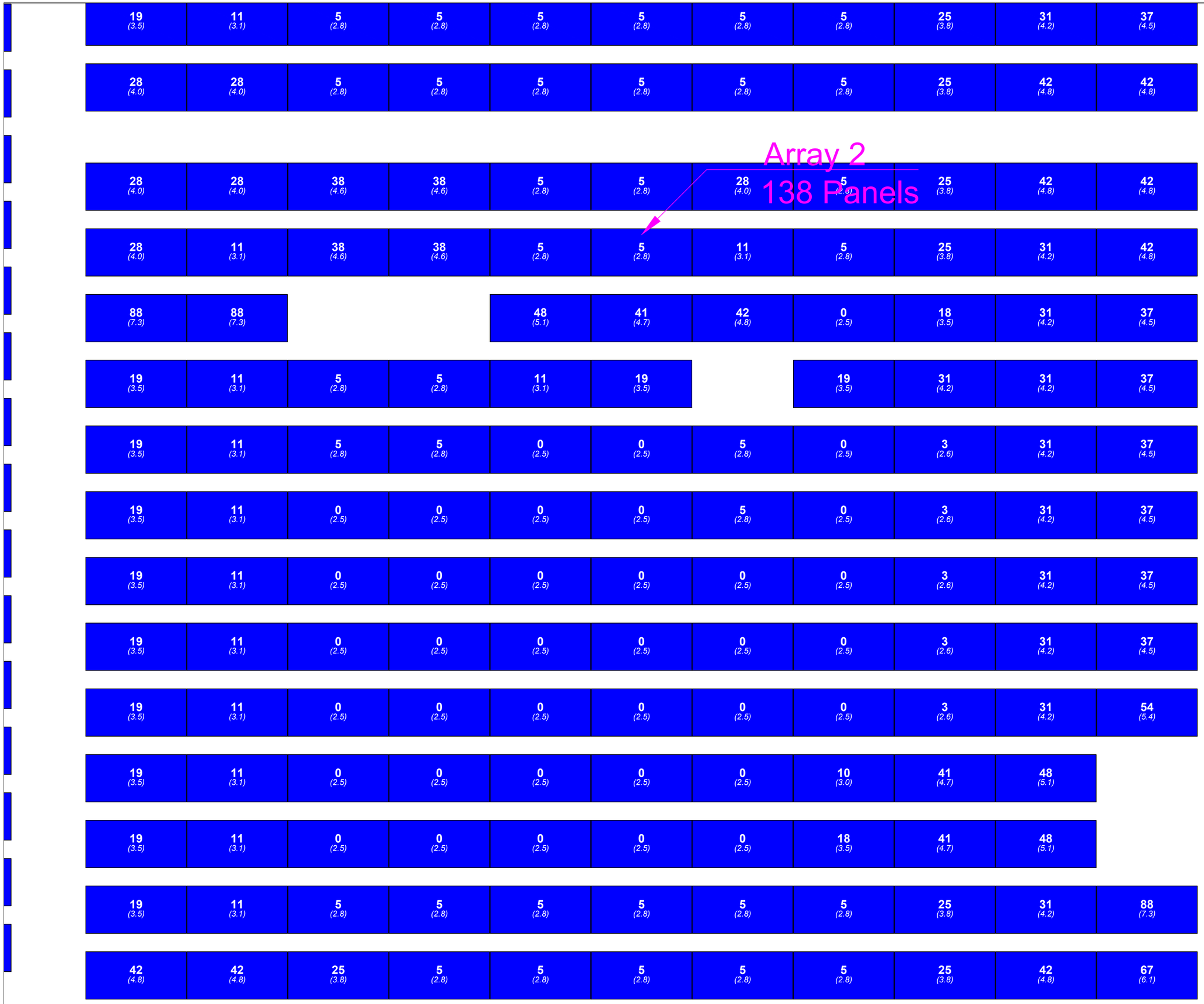
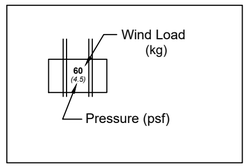
DATE: 2025/12/22
SHEET: 4 OF 85
DRAWING NO. M-3.1



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 2

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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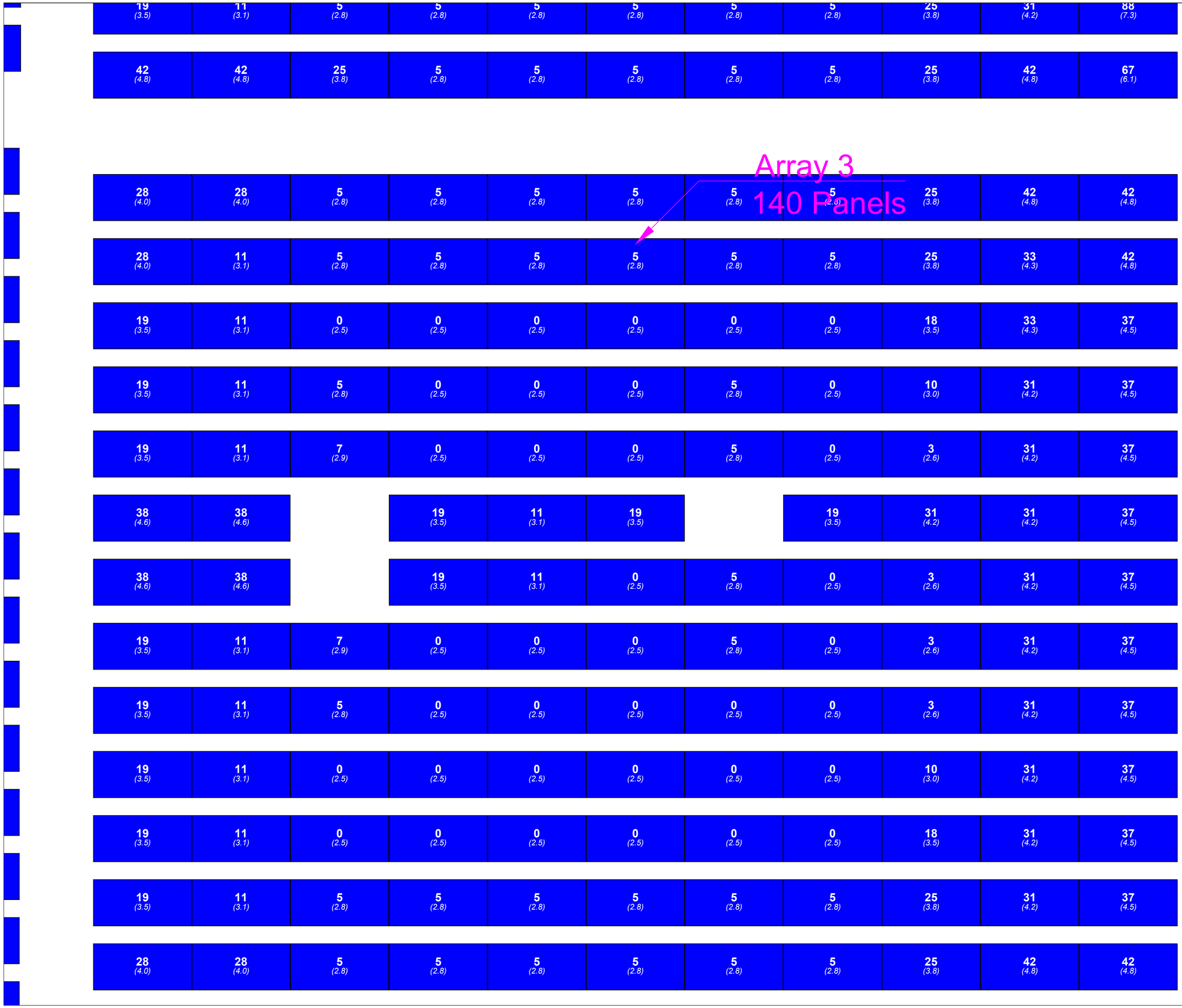
PROJECT NO.: -

DATE: 2025/12/22

SHEET: 5 OF 85

DRAWING NO. M-3.2



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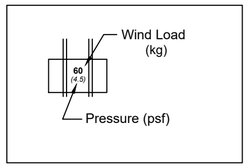
LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 3

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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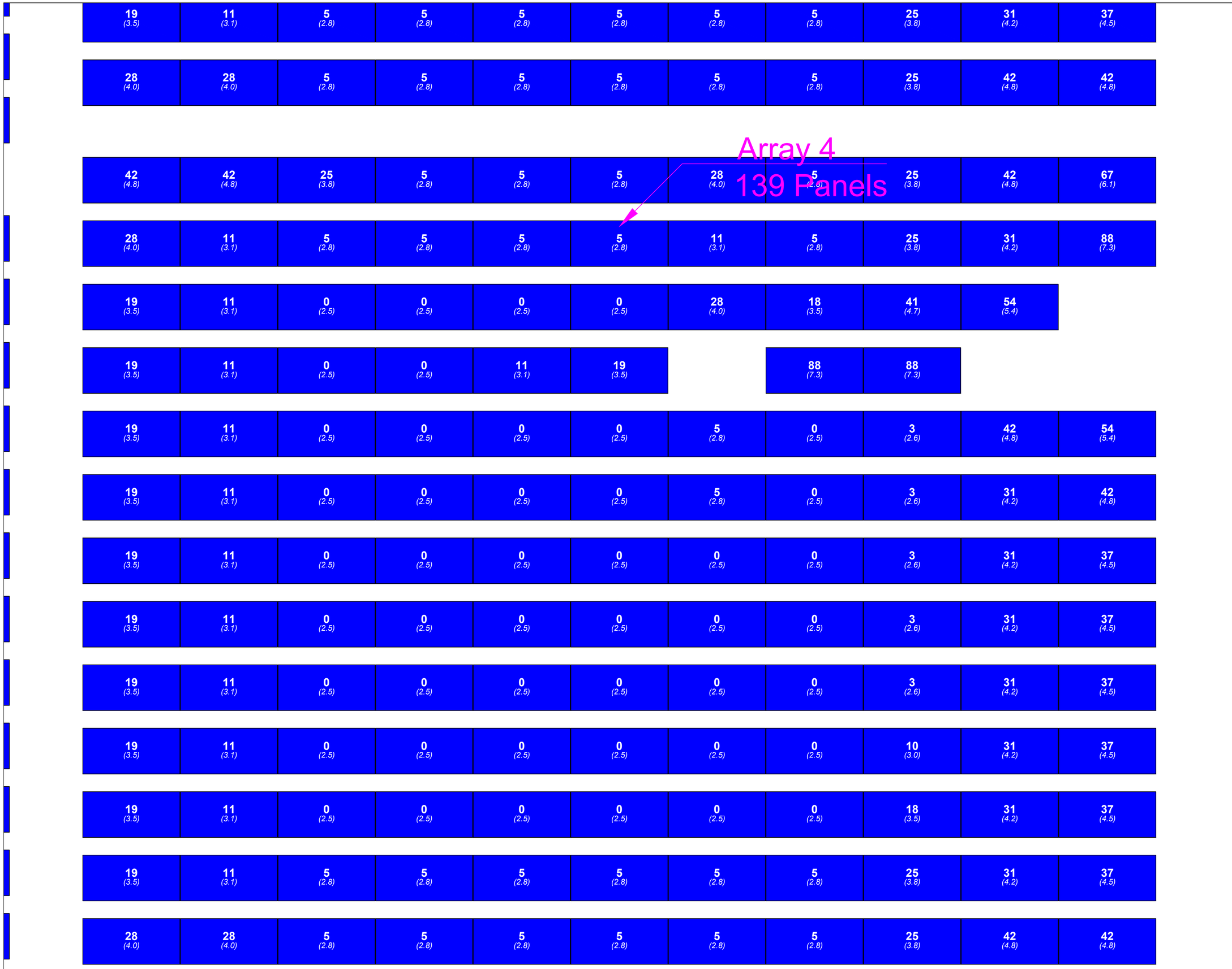
PROJECT NO.: -

DATE: 2025/12/22

SHEET: 6 OF 85

DRAWING NO. M-3.3



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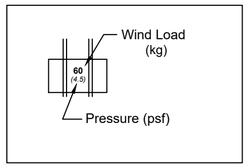
LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 4

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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PROJECT NO.: -

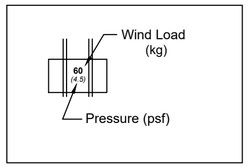
DATE: 2025/12/22

SHEET: 7 OF 85

DRAWING NO. M-3.4

NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 5

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

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TORONTO, ONTARIO M6K 0C7
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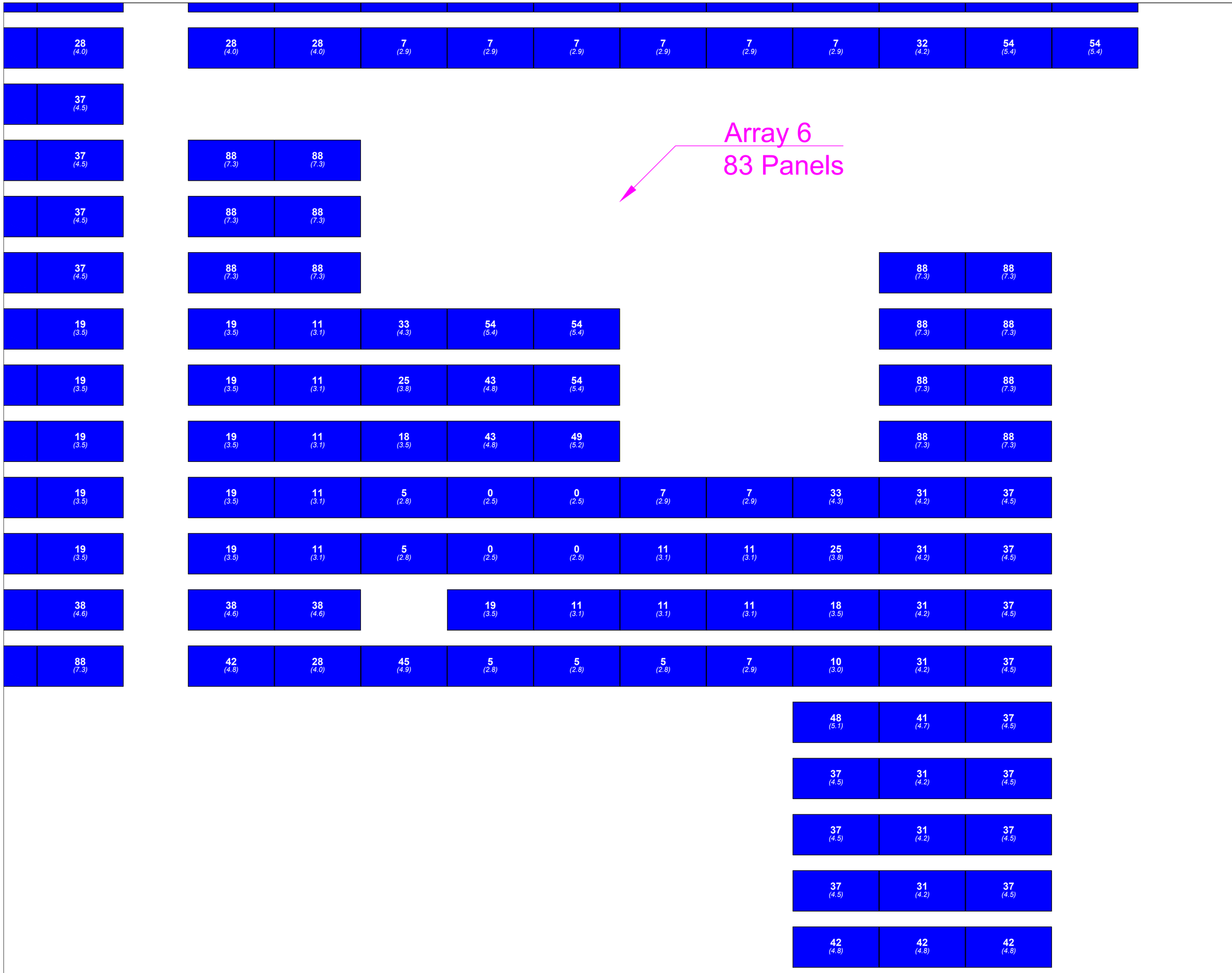
PROJECT NO.: -

DATE: 2025/12/22

SHEET: 8 OF 85

DRAWING NO. M-3.5



NOTE:
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AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
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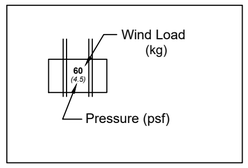
LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 6

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
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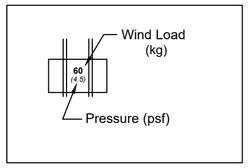
M.N.	Z.U.	1

PROJECT NO.: -
DATE: 2025/12/22
SHEET: 9 OF 85
DRAWING NO. M-3.6

NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 7

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

WWW.KBRACKING.COM

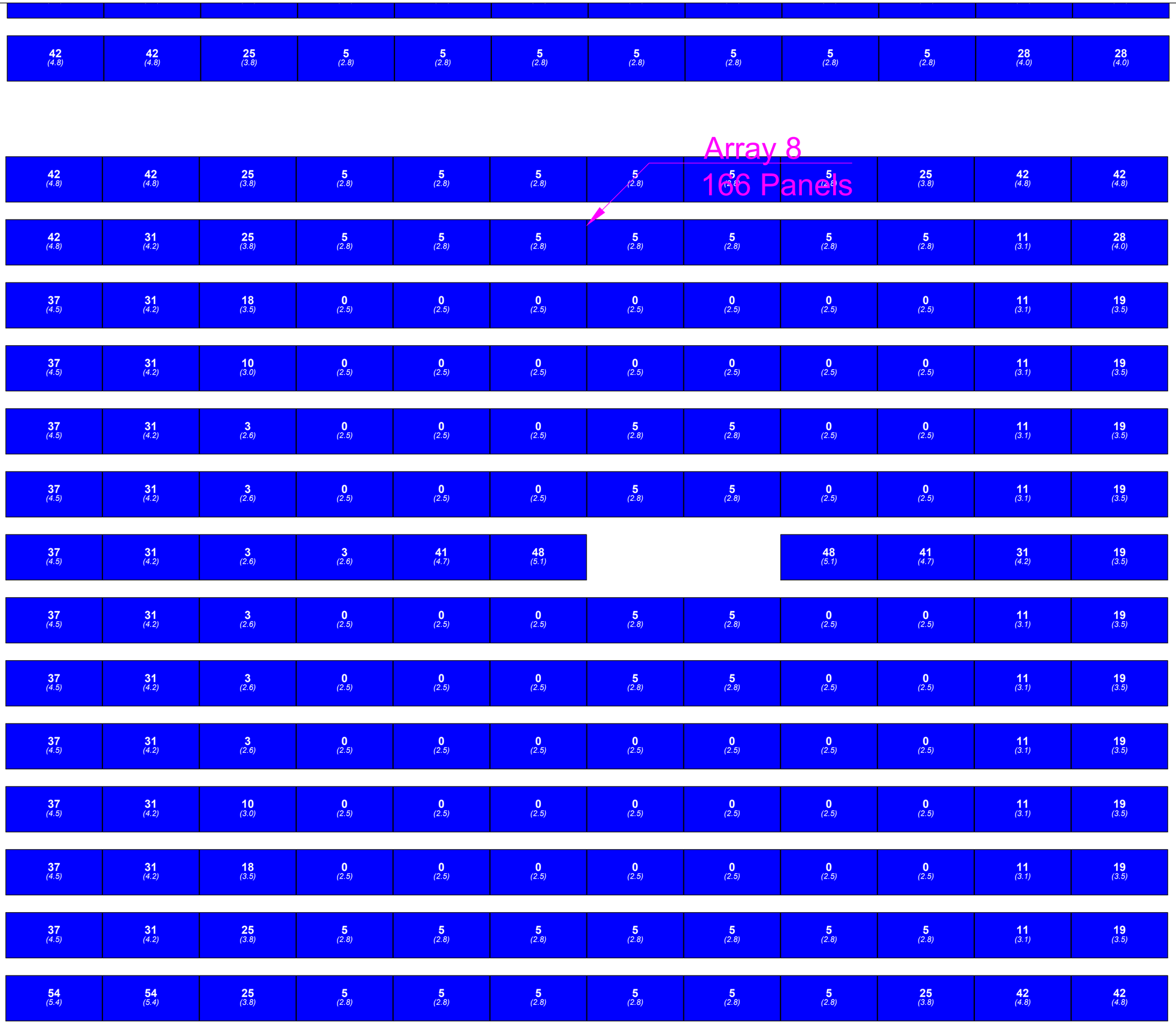
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

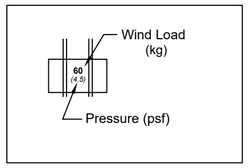
SHEET: 10 OF 85

DRAWING NO. M-3.7



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 8

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

WWW.KBRACKING.COM

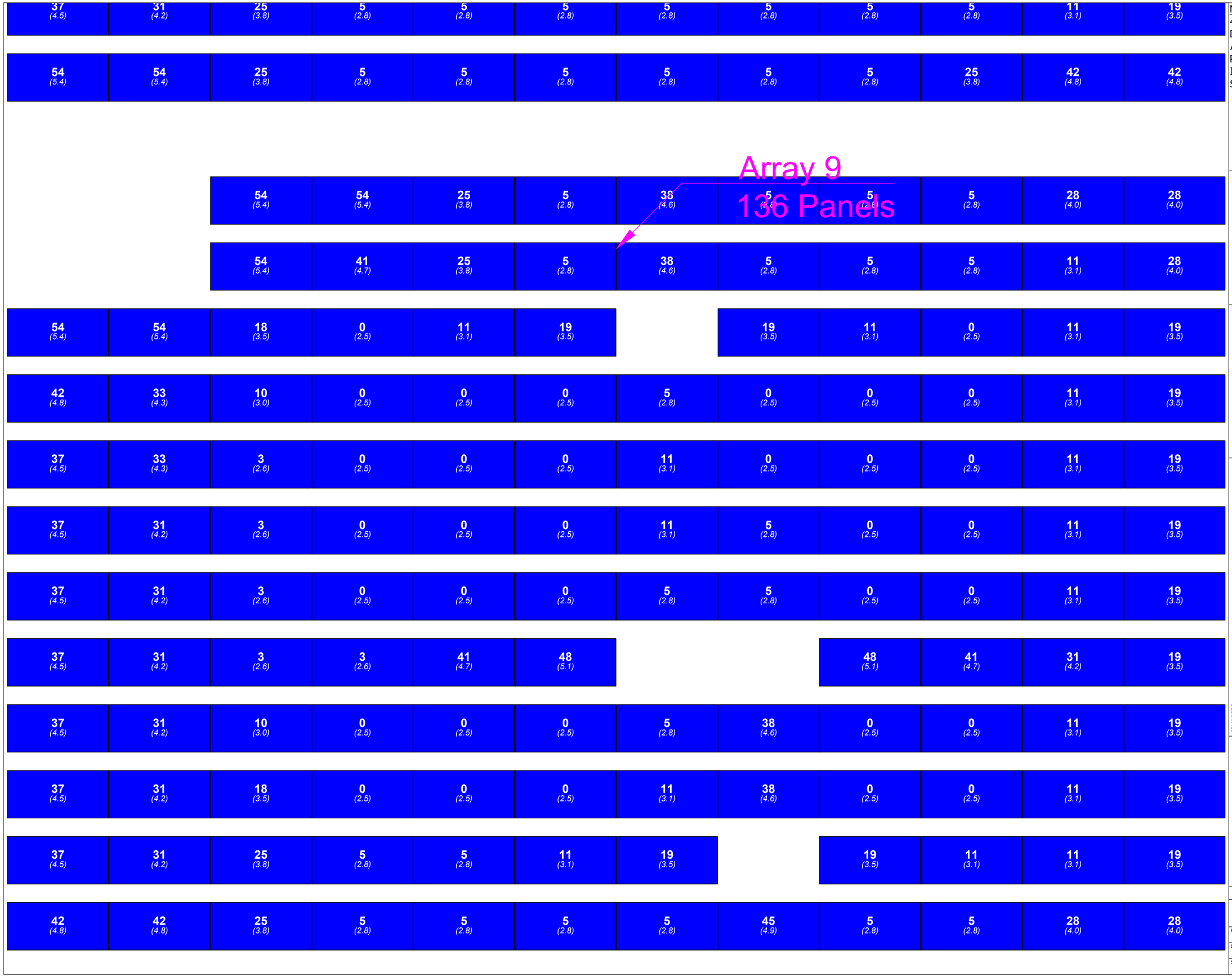
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

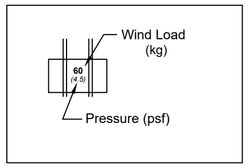
SHEET: 11 OF 85

DRAWING NO. M-3.8



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 9

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

WWW.KBRACKING.COM

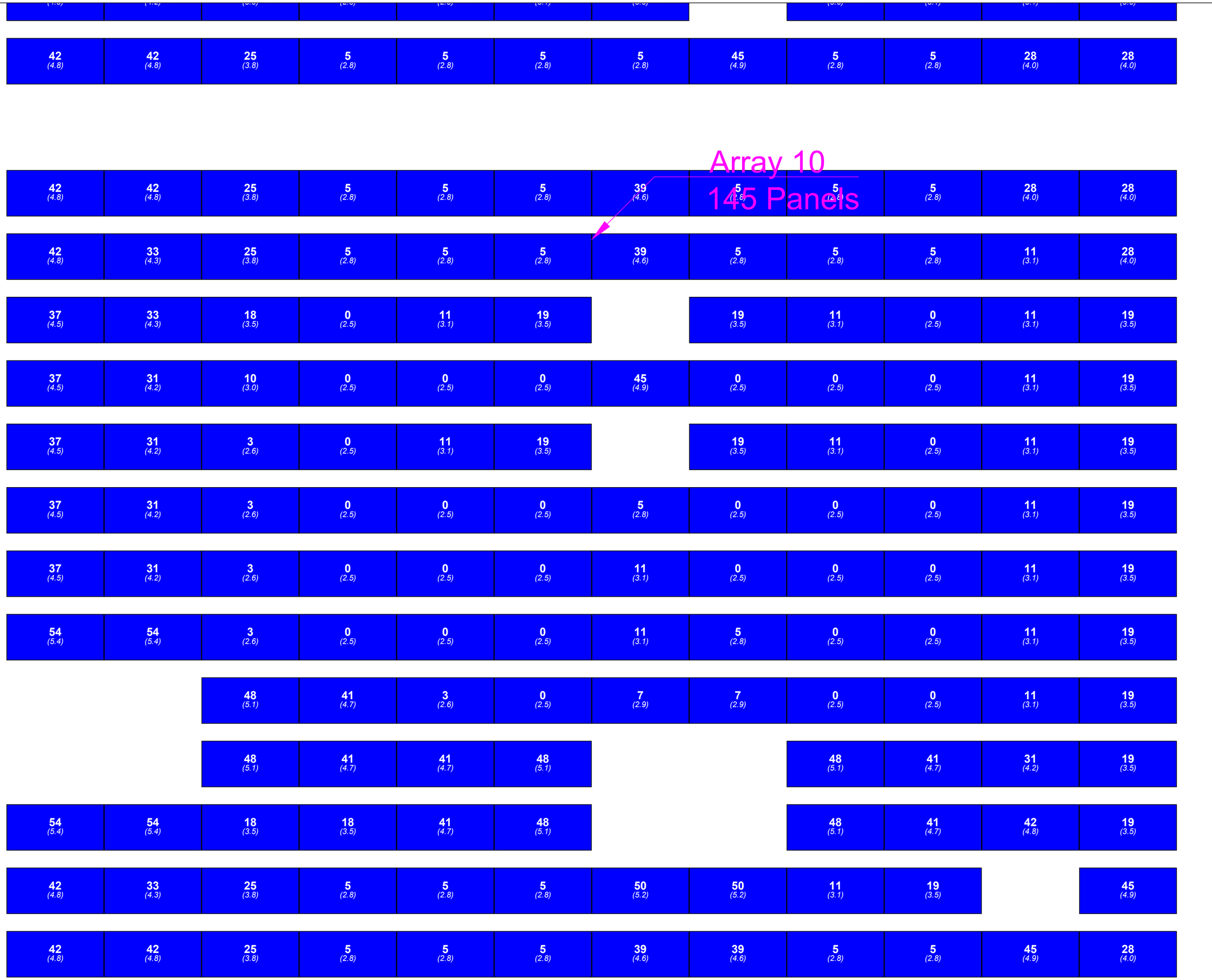
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

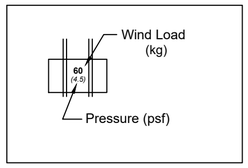
SHEET: 12 OF 85

DRAWING NO. M-3.9



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 10

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

WWW.KBRACKING.COM

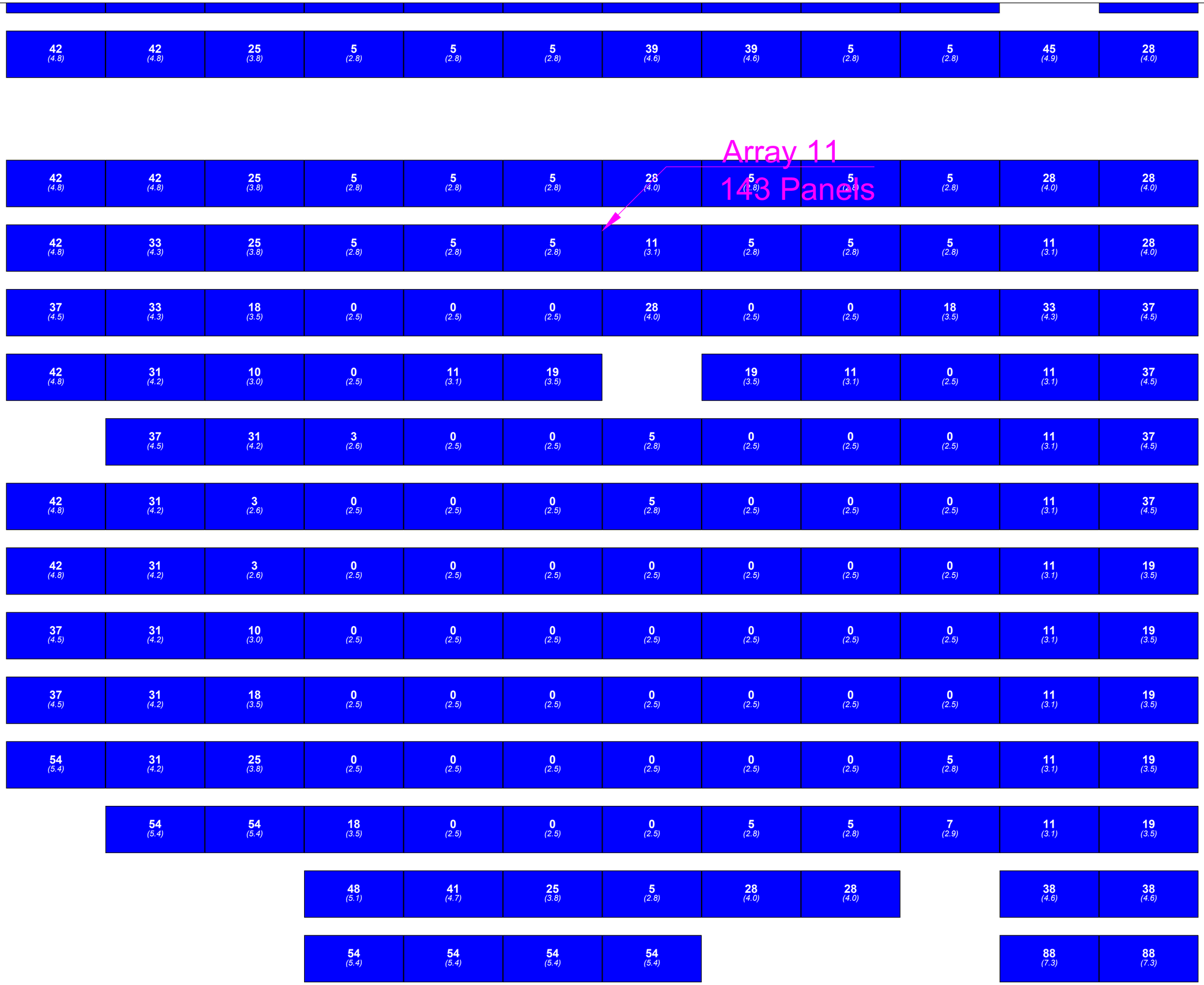
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

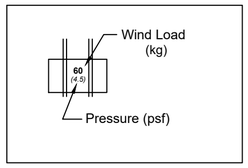
SHEET: 13 OF 85

DRAWING NO. M-3.10



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 11

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

WWW.KBRACKING.COM

DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

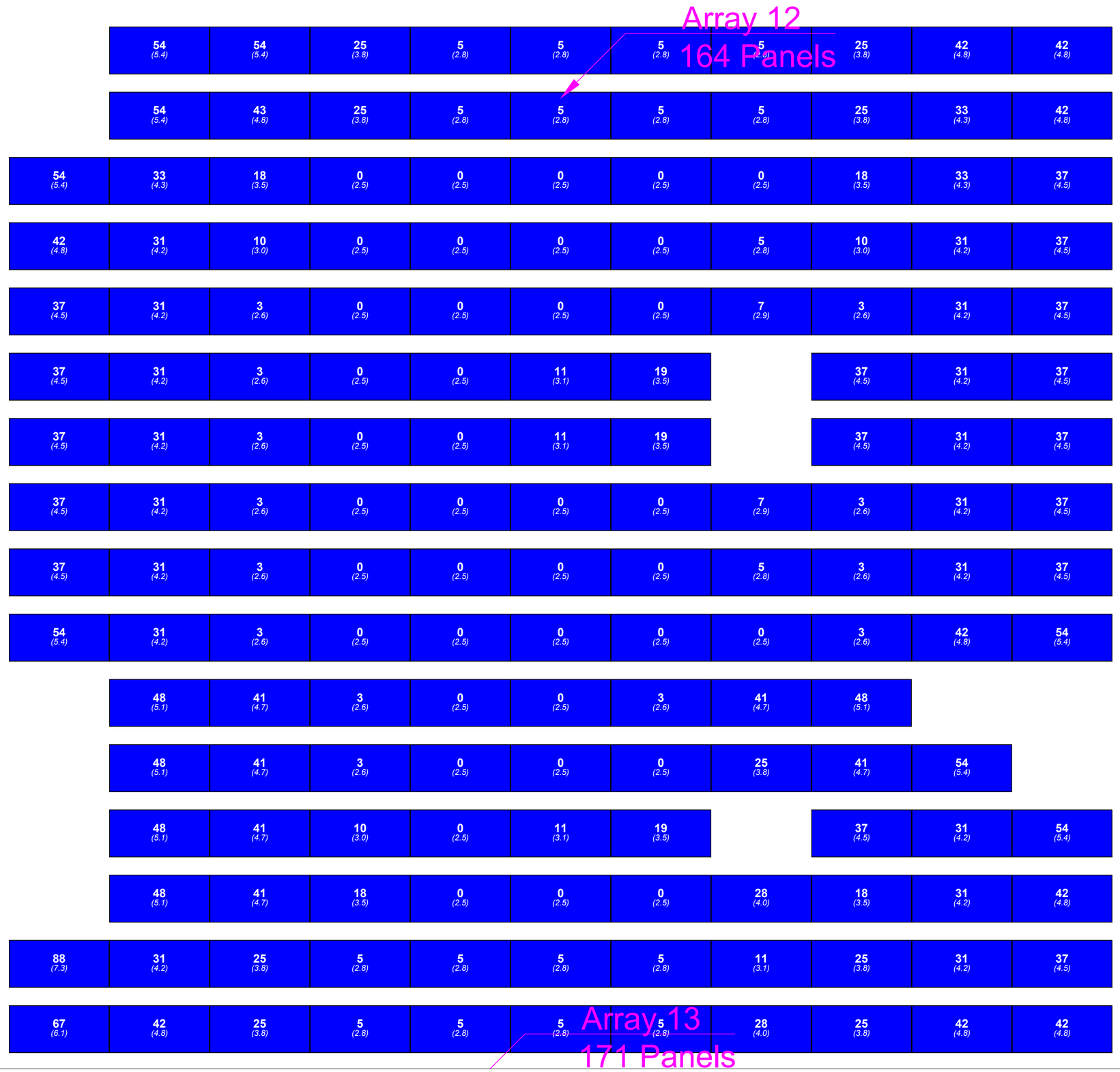
PROJECT NO.: -

DATE: 2025/12/22

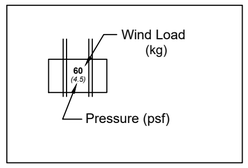
SHEET: 14 OF 85

DRAWING NO. M-3.11

NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m



LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 12

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

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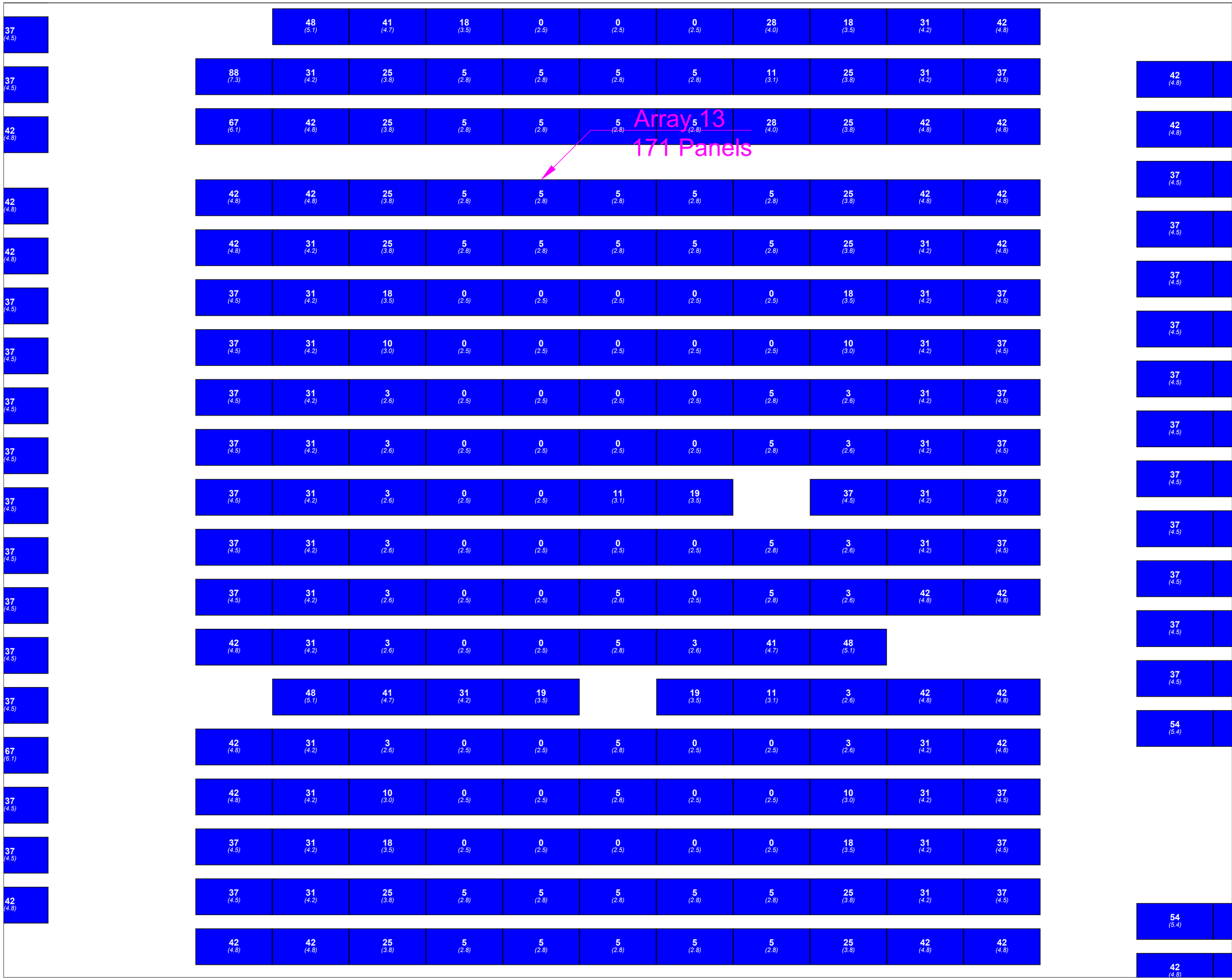
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -
DATE: 2025/12/22
SHEET: 15 OF 85
DRAWING NO. M-3.12


Array 13
171 Panels
48 (5.1) 41 (4.7) 18 (3.5) 0 (2.5) 0 (2.5) 0 (2.5) 28 (4.0) 18 (3.5) 31 (4.2) 42 (4.8)
88 (7.3) 31 (4.2) 25 (3.8) 5 (2.8) 5 (2.8) 5 (2.8) 5 (2.8) 11 (3.1) 25 (3.8) 31 (4.2) 37 (4.5)
67 (6.1) 42 (4.8) 25 (3.8) 5 (2.8) 5 (2.8) 5 (2.8) 5 (2.8) 28 (4.0) 25 (3.8) 42 (4.8) 42 (4.8)
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42 (4.8) 31 (4.2) 25 (3.8) 5 (2.8) 5 (2.8) 5 (2.8) 5 (2.8) 5 (2.8) 25 (3.8) 31 (4.2) 42 (4.8)
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37 (4.5) 31 (4.2) 10 (3.0) 0 (2.5) 0 (2.5) 0 (2.5) 0 (2.5) 0 (2.5) 10 (3.0) 31 (4.2) 37 (4.5)
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42 (4.8) 31 (4.2) 3 (2.6) 0 (2.5) 0 (2.5) 5 (2.8) 3 (2.6) 41 (4.7) 48 (5.1)
48 (5.1) 41 (4.7) 31 (4.2) 19 (3.5) 19 (3.5) 11 (3.1) 3 (2.6) 42 (4.8) 42 (4.8)
42 (4.8) 31 (4.2) 3 (2.6) 0 (2.5) 0 (2.5) 5 (2.8) 0 (2.5) 0 (2.5) 3 (2.6) 31 (4.2) 42 (4.8)
42 (4.8) 31 (4.2) 10 (3.0) 0 (2.5) 0 (2.5) 5 (2.8) 0 (2.5) 0 (2.5) 10 (3.0) 31 (4.2) 37 (4.5)
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42 (4.8) 42 (4.8) 25 (3.8) 5 (2.8) 5 (2.8) 5 (2.8) 5 (2.8) 5 (2.8) 25 (3.8) 42 (4.8) 42 (4.8)
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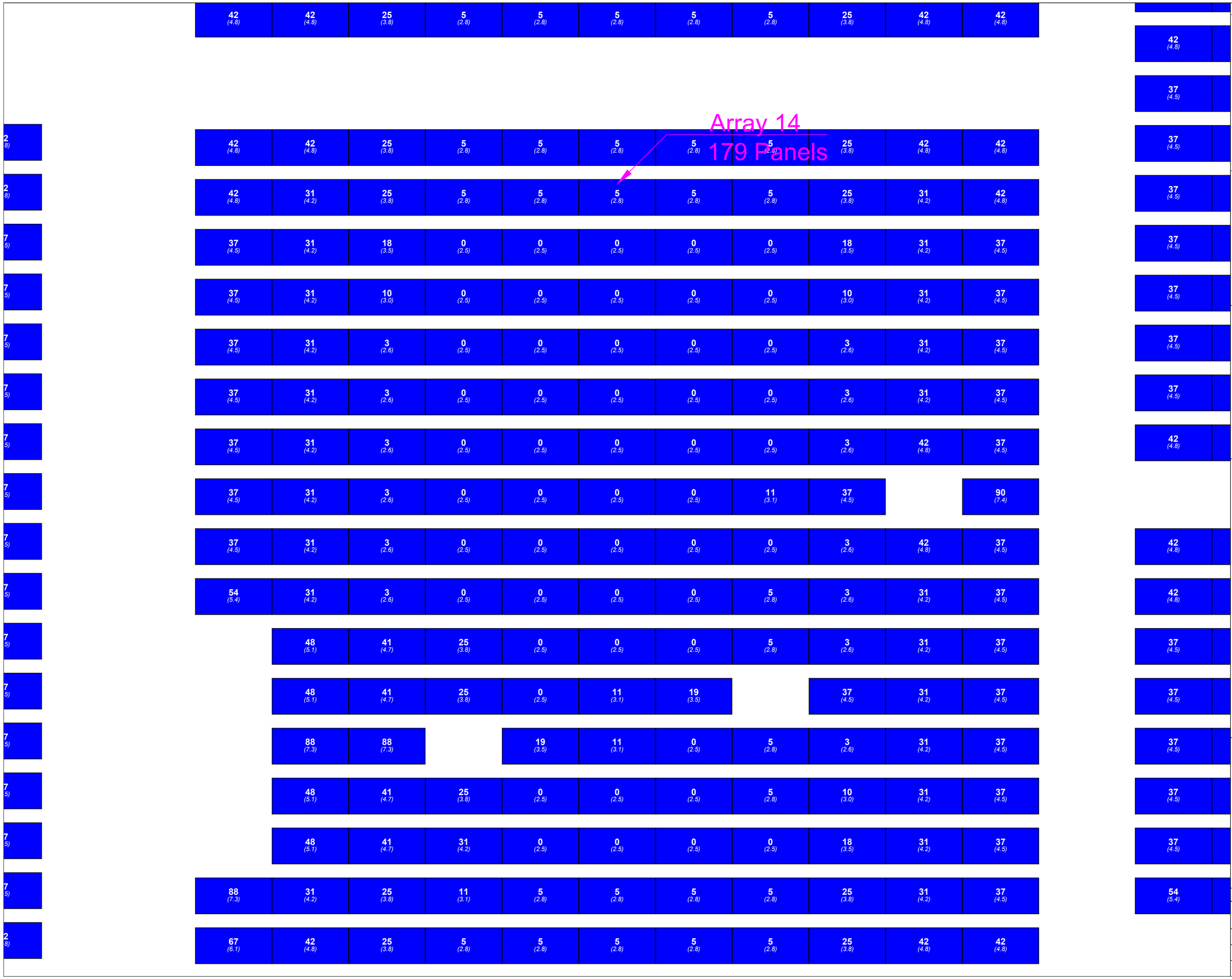


NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND

Wind Load (kg)
60 (4.5)
Pressure (psf)

ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 14

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

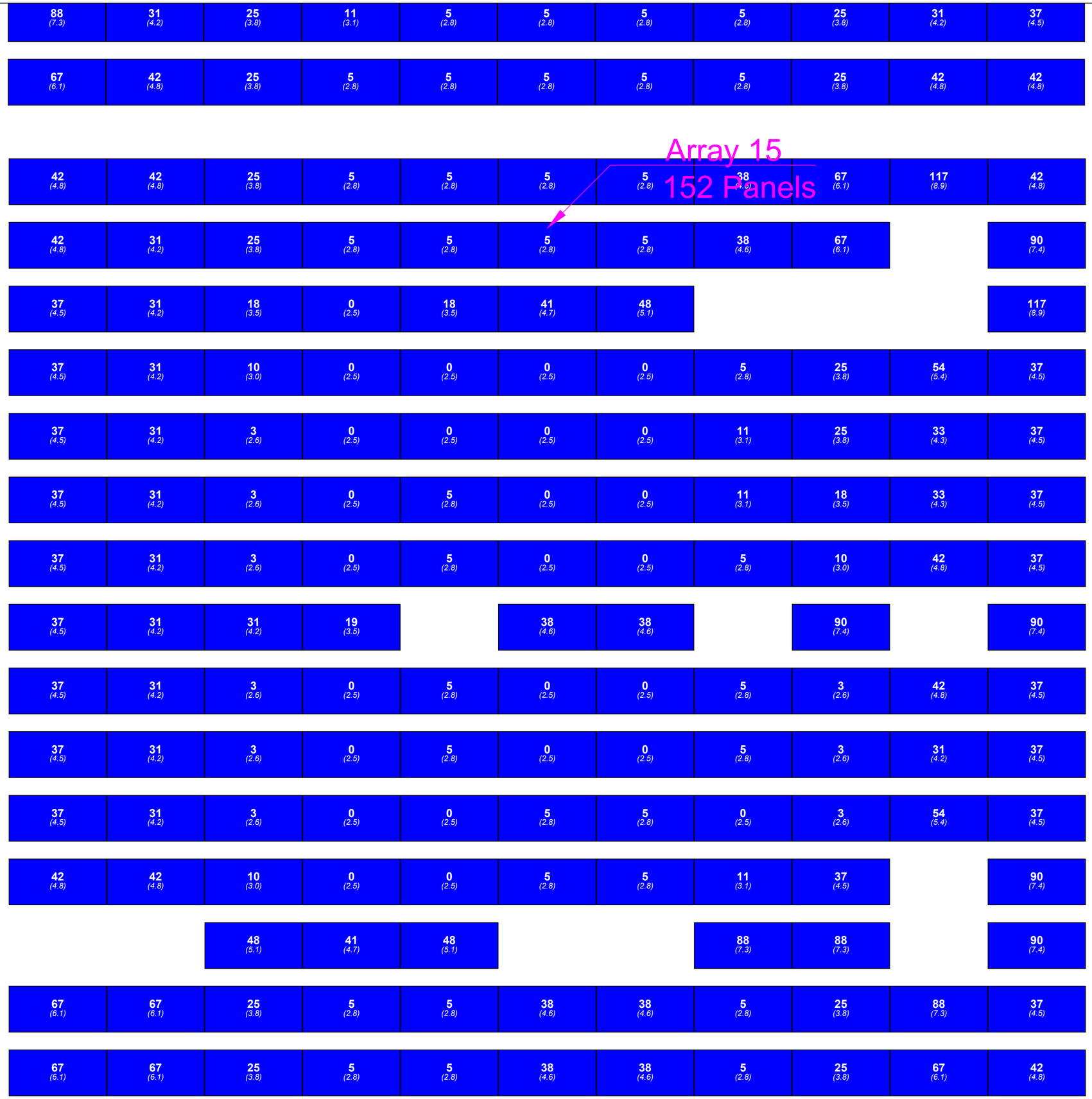
1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

WWW.KBRACKING.COM

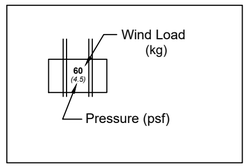
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -
DATE: 2025/12/22
SHEET: 17 OF 85
DRAWING NO. M-3.14



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 15

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

WWW.KBRACKING.COM

DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

SHEET: 18 OF 85

DRAWING NO. M-3.15

NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

Array 16
169 Panels

67 (6.1)	42 (4.8)	25 (3.8)	5 (2.8)	5 (2.8)	5 (2.8)	47 (5.1)	47 (5.1)	25 (3.8)	42 (4.8)	42 (4.8)
67 (6.1)	33 (4.3)	25 (3.8)	25 (3.8)	43 (4.8)	54 (5.4)			54 (5.4)	43 (4.8)	42 (4.8)
	49 (5.2)	43 (4.8)	18 (3.5)	0 (2.5)	0 (2.5)	5 (2.8)	5 (2.8)	18 (3.5)	33 (4.3)	37 (4.5)
28 (4.0)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	5 (2.8)	5 (2.8)	10 (3.0)	31 (4.2)	37 (4.5)
28 (4.0)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
19 (3.5)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
19 (3.5)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
19 (3.5)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
19 (3.5)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
19 (3.5)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
19 (3.5)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
19 (3.5)	11 (3.1)	5 (2.8)	5 (2.8)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
19 (3.5)	28 (4.0)	5 (2.8)	5 (2.8)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
117 (8.9)				48 (5.1)	41 (4.7)	3 (2.6)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
19 (3.5)	28 (4.0)	5 (2.8)	5 (2.8)	0 (2.5)	0 (2.5)	0 (2.5)	5 (2.8)	10 (3.0)	31 (4.2)	37 (4.5)
19 (3.5)	11 (3.1)	11 (3.1)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	5 (2.8)	18 (3.5)	31 (4.2)	37 (4.5)
19 (3.5)	11 (3.1)	11 (3.1)	11 (3.1)	5 (2.8)	11 (3.1)	19 (3.5)		37 (4.5)	31 (4.2)	37 (4.5)
28 (4.0)	28 (4.0)	5 (2.8)	5 (2.8)	5 (2.8)	5 (2.8)	5 (2.8)	45 (4.9)	25 (3.8)	42 (4.8)	42 (4.8)

54 (5.4)	
47 (5.1)	
19 (3.5)	
19 (3.5)	
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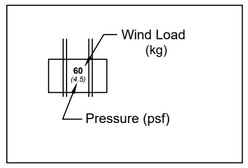
37 (4.5)	
42 (4.8)	

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 16

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

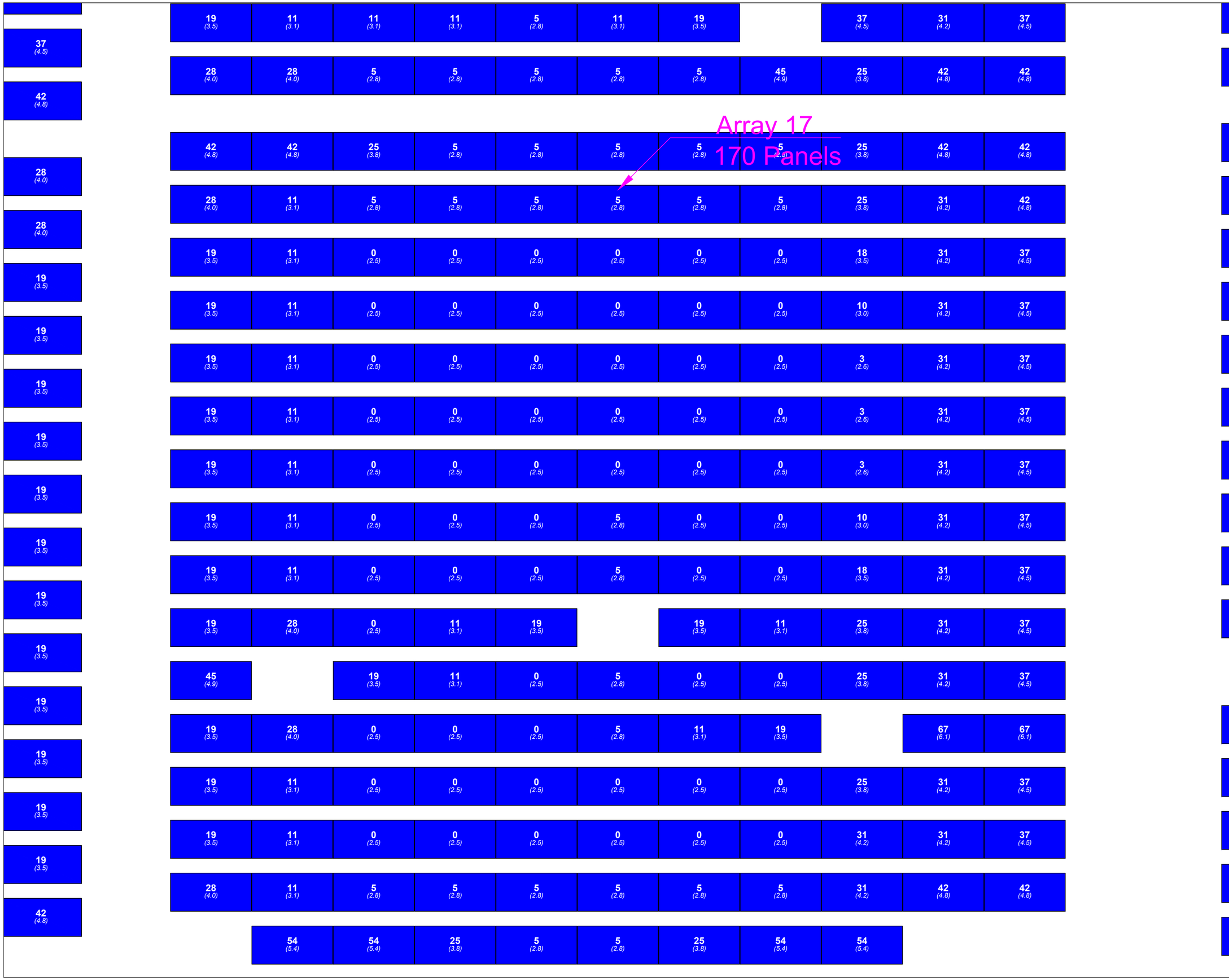
1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

WWW.KBRACKING.COM

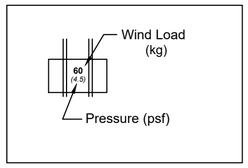
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -
DATE: 2025/12/22
SHEET: 19 OF 85
DRAWING NO. M-3.16



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 17

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

WWW.KBRACKING.COM

DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

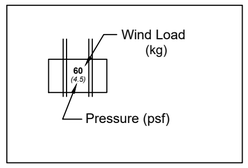
DATE: 2025/12/22

SHEET: 20 OF 85

DRAWING NO. M-3.17

NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 18

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

WWW.KBRACKING.COM

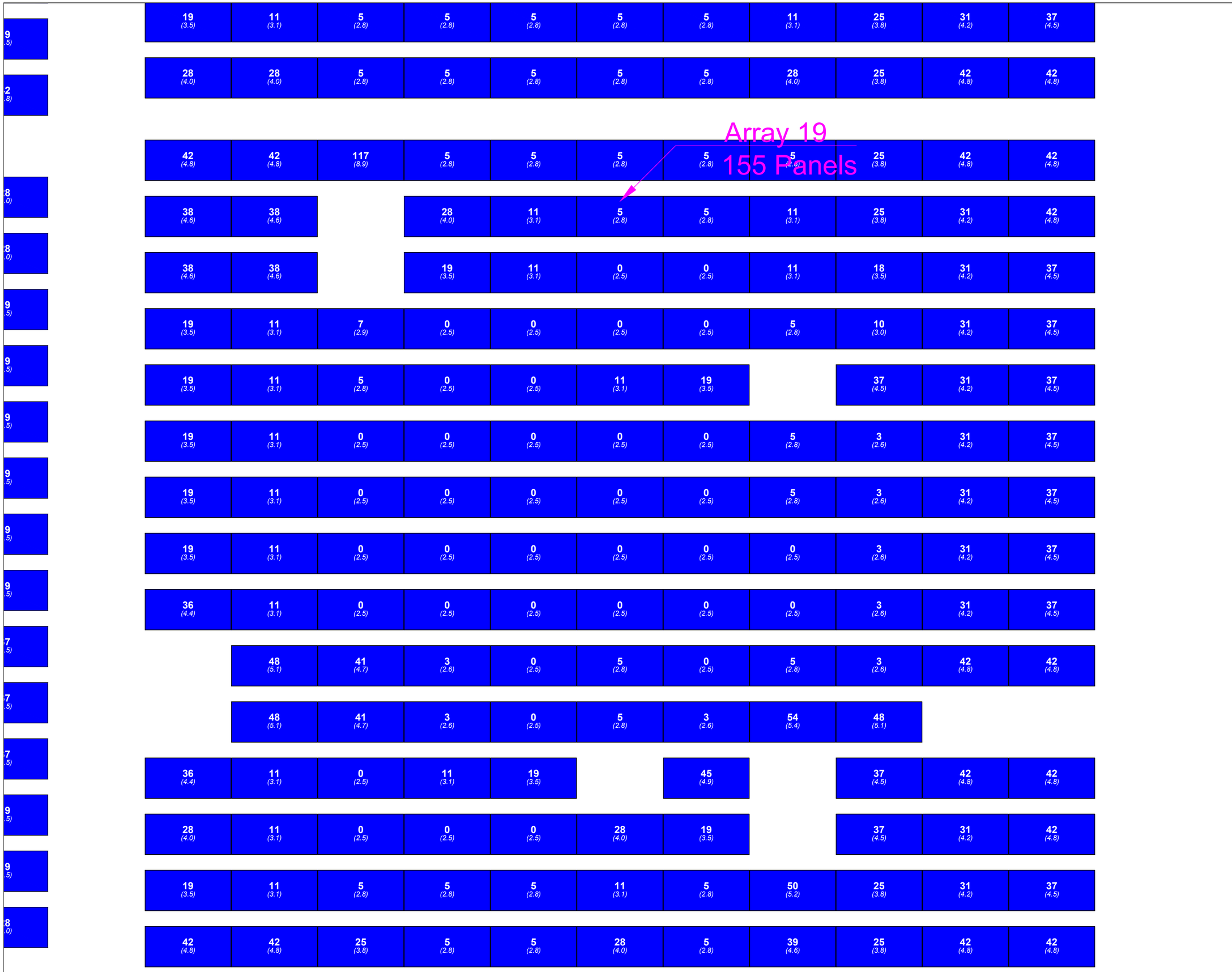
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

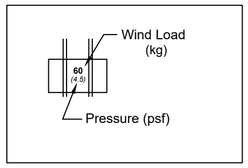
SHEET: 21 OF 85

DRAWING NO. M-3.18



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 19

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

WWW.KBRACKING.COM

DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

SHEET: 22 OF 85

DRAWING NO. M-3.19

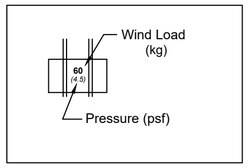
NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

Array 20
185 Panels

42 (4.8)	42 (4.8)	42 (4.8)	25 (3.8)	47 (5.1)	47 (5.1)	5 (2.8)	5 (2.8)	5 (2.8)	25 (3.8)	42 (4.8)	42 (4.8)	
90 (7.4)	42 (4.8)	43 (4.8)	54 (5.4)			54 (5.4)	43 (4.8)	25 (3.8)	25 (3.8)	33 (4.3)	42 (4.8)	
37 (4.5)	37 (4.5)	33 (4.3)	33 (4.3)	5 (2.8)	5 (2.8)	0 (2.5)	0 (2.5)	0 (2.5)	18 (3.5)	33 (4.3)	37 (4.5)	
37 (4.5)	37 (4.5)	31 (4.2)	25 (3.8)	5 (2.8)	5 (2.8)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	10 (3.0)	42 (4.8)	54 (5.4)
37 (4.5)	67 (6.1)	67 (6.1)		19 (3.5)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	11 (3.1)	19 (3.5)		47 (5.1)
37 (4.5)	37 (4.5)	31 (4.2)	25 (3.8)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	28 (4.0)	19 (3.5)
37 (4.5)	37 (4.5)	31 (4.2)	25 (3.8)	0 (2.5)	0 (2.5)	0 (2.5)	5 (2.8)	0 (2.5)	0 (2.5)	0 (2.5)	11 (3.1)	19 (3.5)
37 (4.5)	37 (4.5)	31 (4.2)	18 (3.5)	0 (2.5)	0 (2.5)	0 (2.5)	5 (2.8)	0 (2.5)	0 (2.5)	0 (2.5)	11 (3.1)	19 (3.5)
37 (4.5)	37 (4.5)	31 (4.2)	10 (3.0)	0 (2.5)	11 (3.1)	19 (3.5)		19 (3.5)	11 (3.1)	0 (2.5)	11 (3.1)	19 (3.5)
37 (4.5)	54 (5.4)	31 (4.2)	3 (2.6)	0 (2.5)	0 (2.5)	0 (2.5)	5 (2.8)	0 (2.5)	0 (2.5)	0 (2.5)	11 (3.1)	19 (3.5)
37 (4.5)		48 (5.1)	41 (4.7)	3 (2.6)	0 (2.5)	0 (2.5)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	11 (3.1)	19 (3.5)
37 (4.5)		48 (5.1)	41 (4.7)	3 (2.6)	0 (2.5)	5 (2.8)	11 (3.1)	0 (2.5)	0 (2.5)	0 (2.5)	11 (3.1)	37 (4.5)
37 (4.5)		48 (5.1)	41 (4.7)	3 (2.6)	0 (2.5)	5 (2.8)	5 (2.8)	0 (2.5)	0 (2.5)	0 (2.5)	11 (3.1)	37 (4.5)
37 (4.5)		48 (5.1)	41 (4.7)	41 (4.7)	48 (5.1)			48 (5.1)	41 (4.7)	10 (3.0)	11 (3.1)	19 (3.5)
37 (4.5)		48 (5.1)	41 (4.7)	18 (3.5)	0 (2.5)	28 (4.0)	28 (4.0)	7 (2.9)	7 (2.9)	0 (2.5)	11 (3.1)	19 (3.5)
67 (6.1)	88 (7.3)	31 (4.2)	25 (3.8)	5 (2.8)	25 (3.8)	41 (4.7)	54 (5.4)			48 (5.1)	41 (4.7)	37 (4.5)
42 (4.8)	67 (6.1)	42 (4.8)	25 (3.8)	5 (2.8)	25 (3.8)	54 (5.4)	54 (5.4)			54 (5.4)	54 (5.4)	42 (4.8)

67 (6.1)	
67 (6.1)	
28 (4.0)	
28 (4.0)	
19 (3.5)	
19 (3.5)	
19 (3.5)	
19 (3.5)	
19 (3.5)	
19 (3.5)	
117 (8.9)	
19 (3.5)	
19 (3.5)	
19 (3.5)	
28 (4.0)	

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 20

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

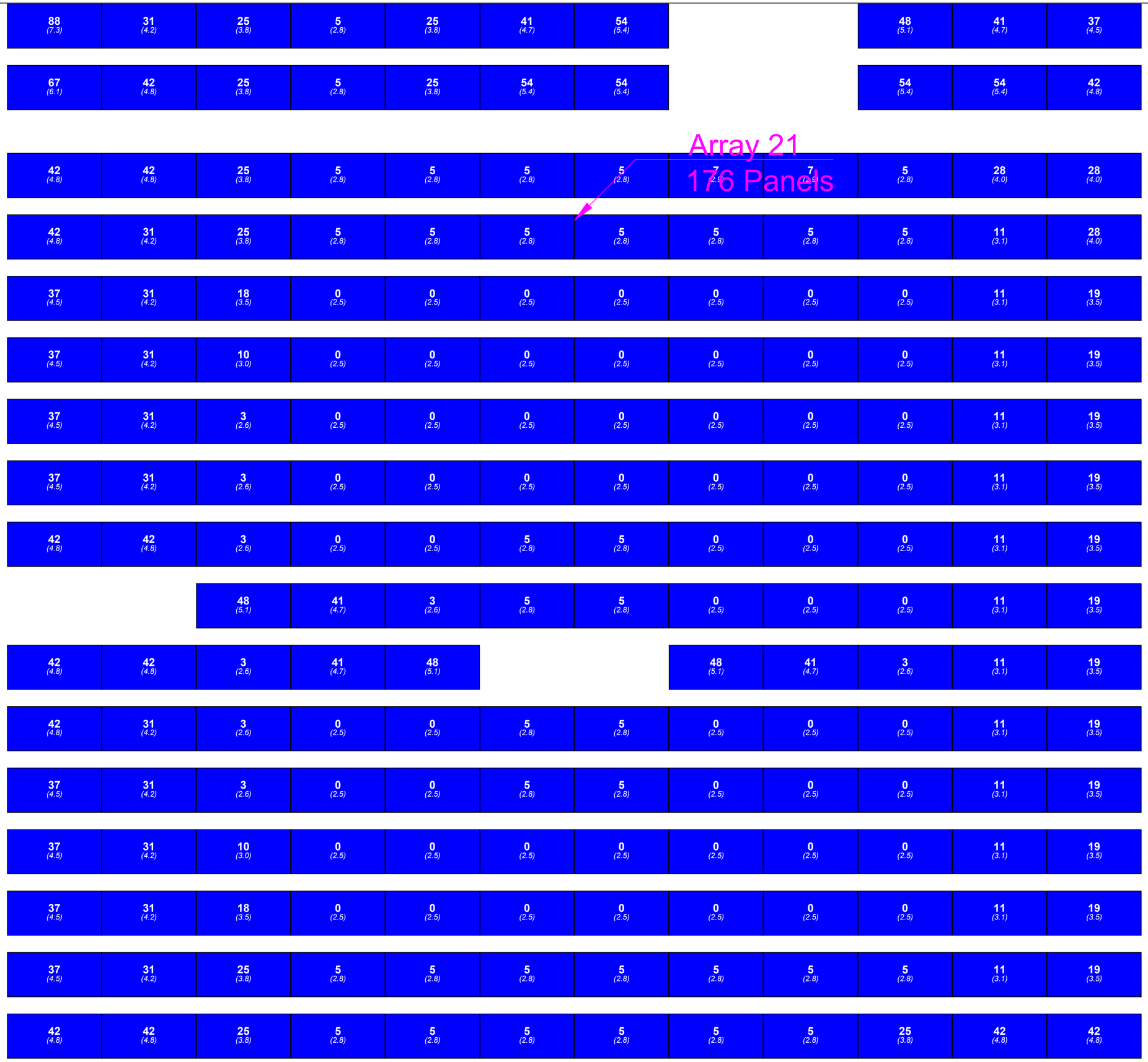
1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

WWW.KBRACKING.COM

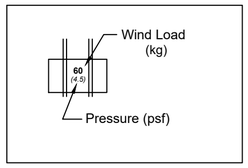
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -
DATE: 2025/12/22
SHEET: 23 OF 85
DRAWING NO. M-3.20



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 21

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

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DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

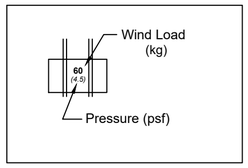
DATE: 2025/12/22

SHEET: 24 OF 85

DRAWING NO. M-3.21

NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 22

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

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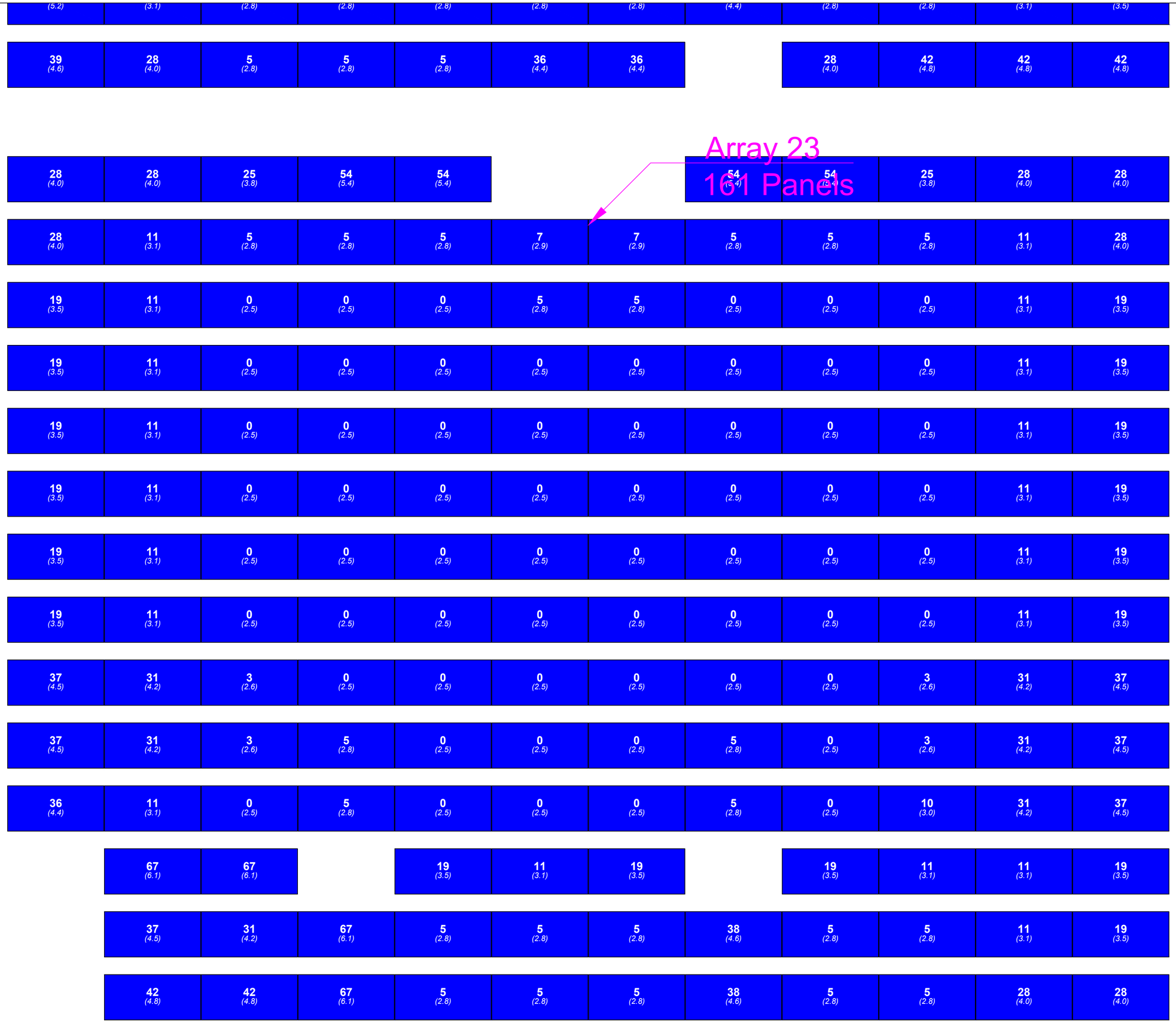
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

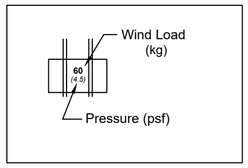
SHEET: 25 OF 85

DRAWING NO. M-3.22



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 23

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

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DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

SHEET: 26 OF 85

DRAWING NO. M-3.23

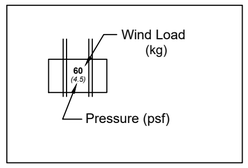
NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

Array 24
180 Panels

42 (4.8)	42 (4.8)	90 (7.4)	5 (2.8)	5 (2.8)	5 (2.8)	5 (2.8)	28 (4.0)	25 (3.8)	90 (7.4)	42 (4.8)
67 (6.1)	67 (6.1)		28 (4.0)	11 (3.1)	5 (2.8)	5 (2.8)	11 (3.1)	42 (4.8)		90 (7.4)
37 (4.5)	33 (4.3)	25 (3.8)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	28 (4.0)	18 (3.5)	42 (4.8)	37 (4.5)
42 (4.8)	31 (4.2)	25 (3.8)	0 (2.5)	0 (2.5)	11 (3.1)	19 (3.5)		37 (4.5)	31 (4.2)	37 (4.5)
	48 (5.1)	41 (4.7)	3 (2.6)	0 (2.5)	0 (2.5)	0 (2.5)	5 (2.8)	3 (2.6)	31 (4.2)	37 (4.5)
42 (4.8)	31 (4.2)	10 (3.0)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	5 (2.8)	3 (2.6)	31 (4.2)	37 (4.5)
42 (4.8)	31 (4.2)	3 (2.6)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
37 (4.5)	31 (4.2)	3 (2.6)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
37 (4.5)	31 (4.2)	3 (2.6)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
37 (4.5)	31 (4.2)	3 (2.6)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
37 (4.5)	31 (4.2)	3 (2.6)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	3 (2.6)	31 (4.2)	37 (4.5)
37 (4.5)	31 (4.2)	3 (2.6)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	5 (2.8)	3 (2.6)	31 (4.2)	37 (4.5)
37 (4.5)	31 (4.2)	3 (2.6)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	7 (2.9)	10 (3.0)	31 (4.2)	37 (4.5)
37 (4.5)	31 (4.2)	3 (2.6)	0 (2.5)	0 (2.5)	11 (3.1)	19 (3.5)		37 (4.5)	31 (4.2)	37 (4.5)
37 (4.5)	31 (4.2)	10 (3.0)	0 (2.5)	0 (2.5)	11 (3.1)	19 (3.5)		37 (4.5)	31 (4.2)	37 (4.5)
37 (4.5)	31 (4.2)	18 (3.5)	0 (2.5)	0 (2.5)	0 (2.5)	0 (2.5)	36 (4.4)	25 (3.8)	31 (4.2)	37 (4.5)
37 (4.5)	31 (4.2)	25 (3.8)	5 (2.8)	5 (2.8)	5 (2.8)	11 (3.1)	28 (4.0)		67 (6.1)	67 (6.1)
42 (4.8)	42 (4.8)	25 (3.8)	5 (2.8)	5 (2.8)	5 (2.8)	5 (2.8)	28 (4.0)	90 (7.4)	42 (4.8)	42 (4.8)

42 (4.8)	
42 (4.8)	
37 (4.5)	
37 (4.5)	
67 (6.1)	
37 (4.5)	
37 (4.5)	
37 (4.5)	
37 (4.5)	
54 (5.4)	
88 (7.3)	
67 (6.1)	

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 24

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

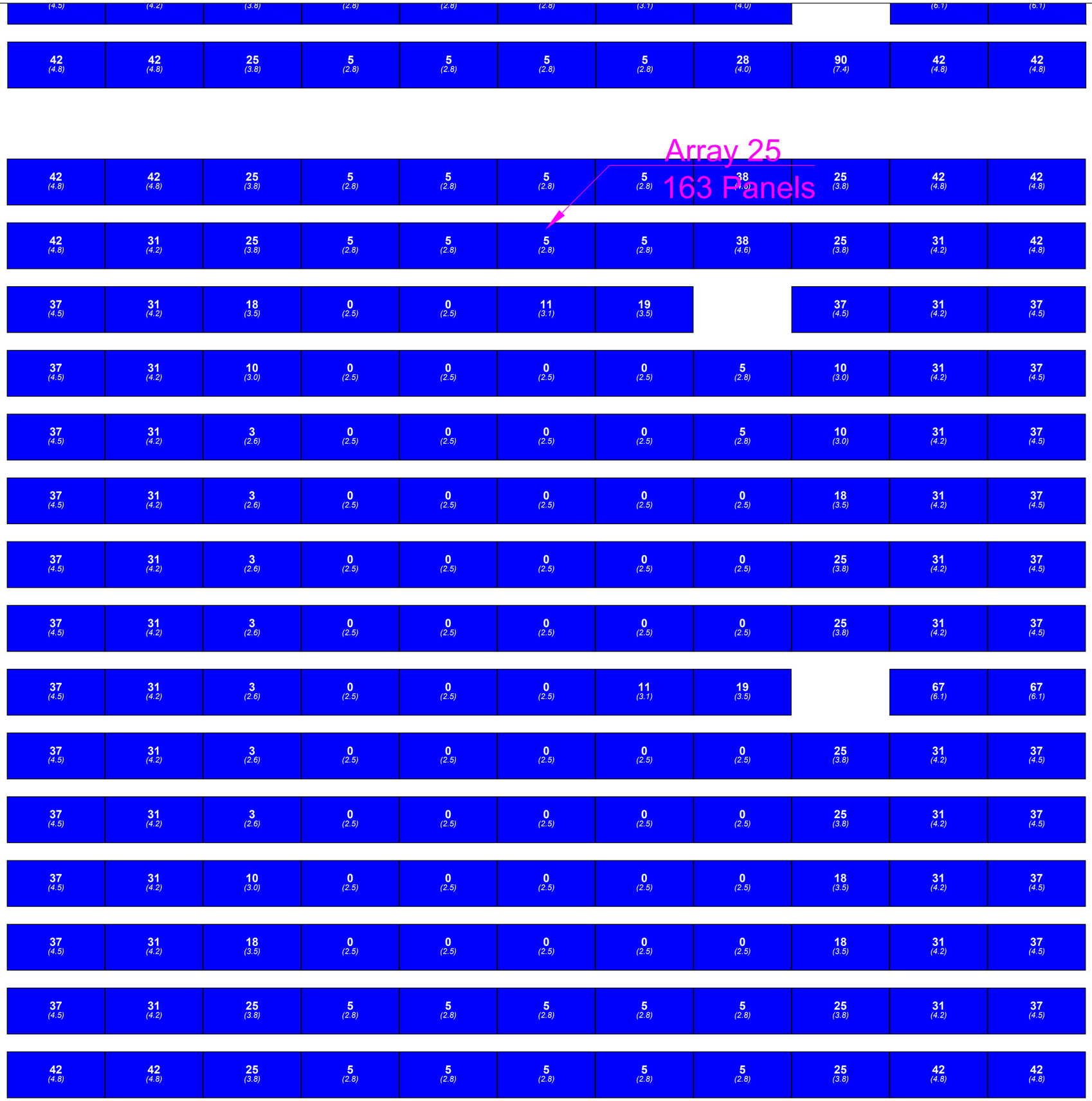
1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

WWW.KBRACKING.COM

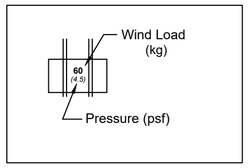
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -
DATE: 2025/12/22
SHEET: 27 OF 85
DRAWING NO. M-3.24



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 25

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

WWW.KBRACKING.COM

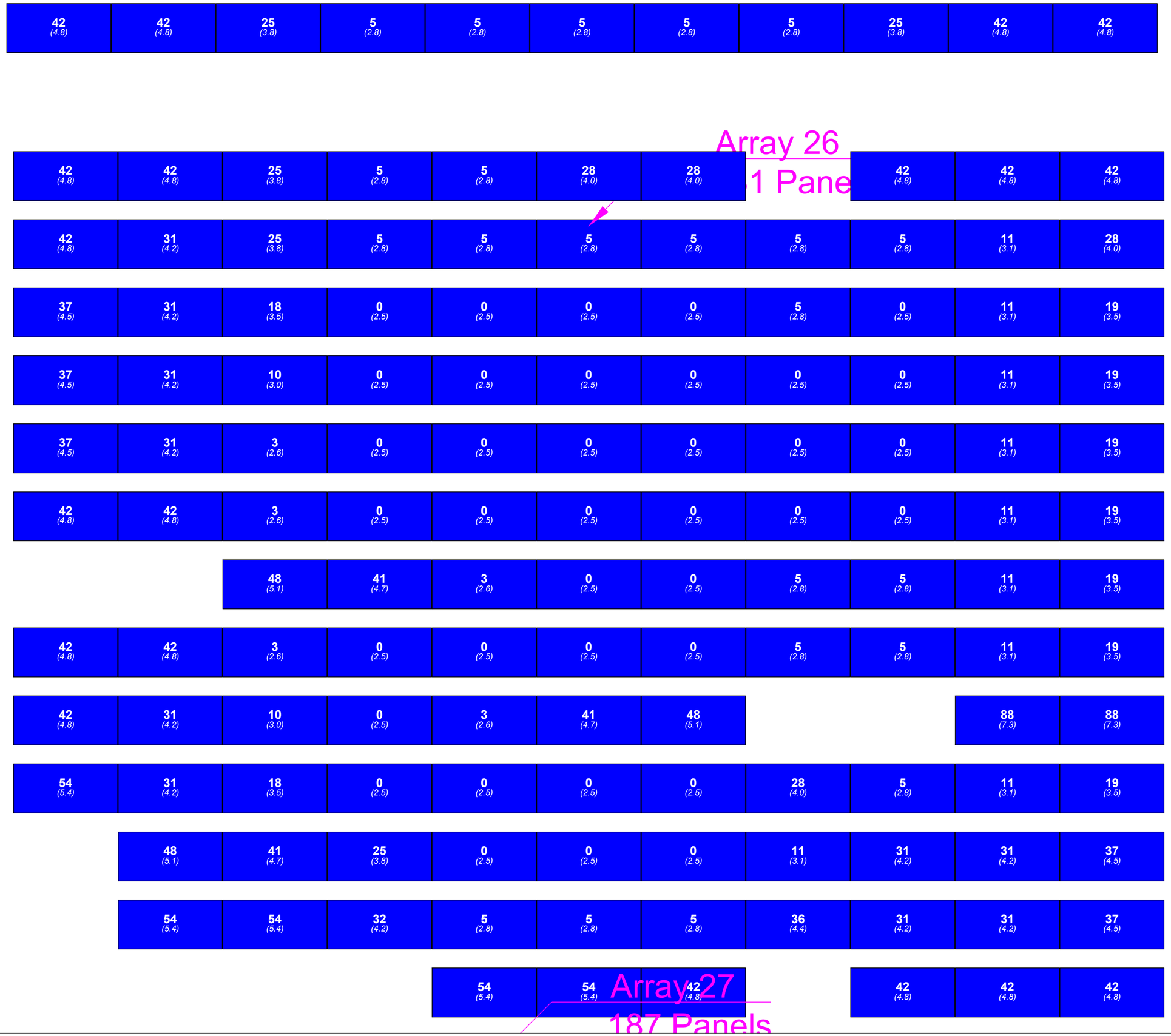
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

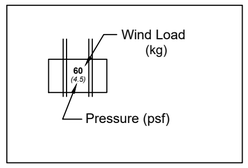
SHEET: 28 OF 85

DRAWING NO. M-3.25



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 26

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

WWW.KBRACKING.COM

DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

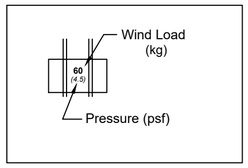
DATE: 2025/12/22

SHEET: 29 OF 85

DRAWING NO. M-3.26

NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: LOAD ARRAY 27

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

WWW.KBRACKING.COM

DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

SHEET: 30 OF 85

DRAWING NO. M-3.27

1600 50e Avenue - 2705.6 kW (dc)

1600 50e Avenue, Lachine, QC H8T 2V5

	Total Ballast (kg)	Stone Quantities 15.5x7.5x3.5in Large (14.5 kg)	Ballast Trays	Accessory Brackets	High Uplift Supports
Array 01	2349.00	162	0	0	0
Array 02	2392.50	165	0	0	0
Array 03	1943.00	134	0	0	0
Array 04	2044.50	141	0	0	0
Array 05	2566.50	177	0	0	0
Array 06	3016.00	208	0	0	0
Array 07	3349.50	231	0	0	0
Array 08	2160.50	149	0	0	0
Array 09	2218.50	153	0	0	0
Array 10	2740.50	189	0	0	0
Array 11	2349.00	162	0	0	0
Array 12	3378.50	233	0	0	0
Array 13	3030.50	209	0	0	0
Array 14	3422.00	236	0	0	0
Array 15	4060.00	280	0	0	0
Array 16	2856.50	197	0	0	0
Array 17	2494.00	172	0	0	0
Array 18	2595.50	179	0	0	0
Array 19	2827.50	195	0	0	0
Array 20	3813.50	263	0	0	0
Array 21	2233.00	154	0	0	0
Array 22	2175.00	150	0	0	0
Array 23	2059.00	142	0	0	0
Array 24	3639.50	251	0	0	0
Array 25	2958.00	204	0	0	0
Array 26	2508.50	173	0	0	0
Array 27	3712.00	256	0	0	0
Totals	74892.50	5165	0	0	0
Recommended Ballast	74366.52				
Additional Ballast Weight	525.98				

NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

ENGINEER'S SEAL

DRAWING TITLE: PAVER LAYOUT

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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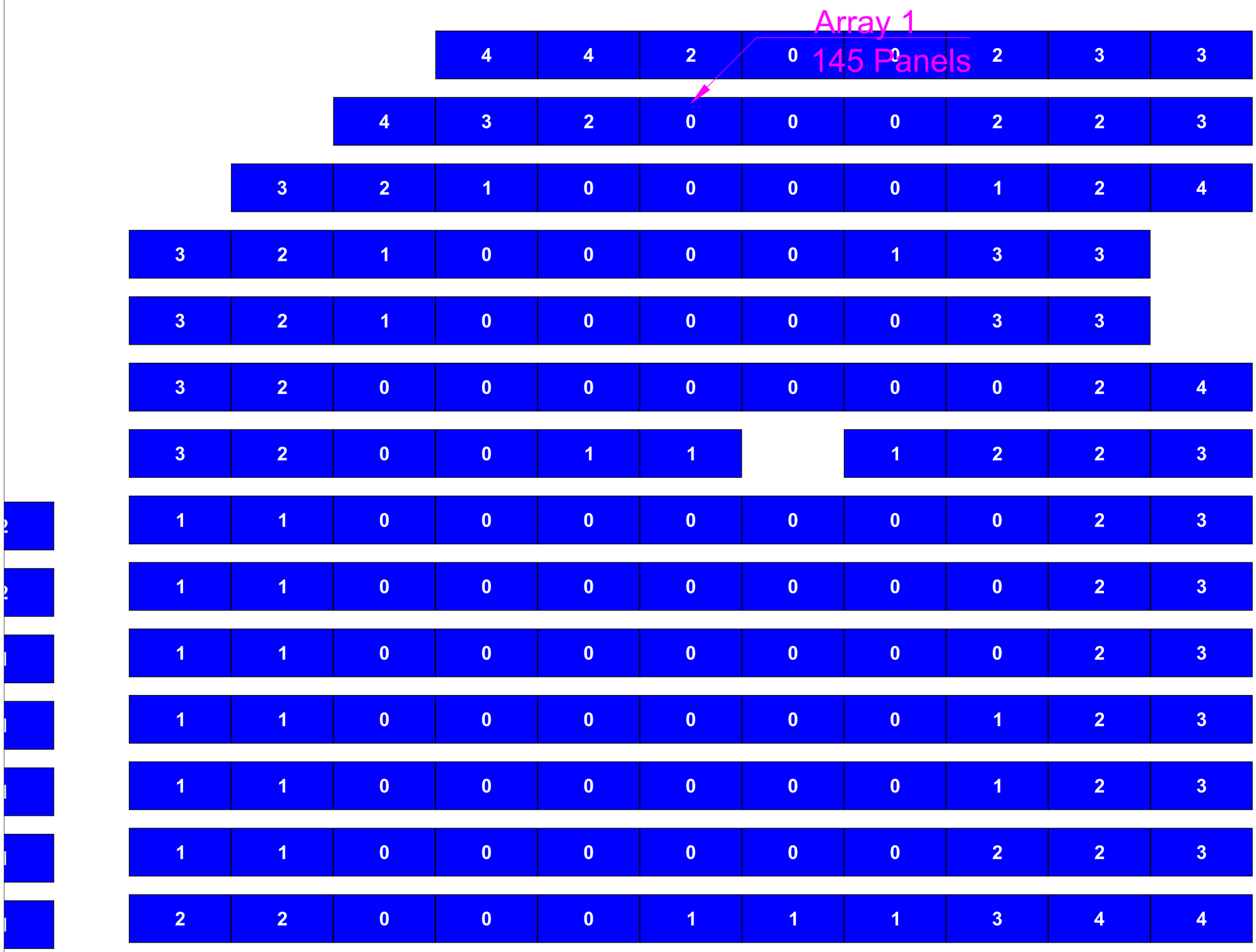
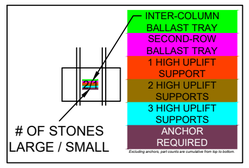
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -
DATE: 2025/12/22
SHEET: 31 OF 85
DRAWING NO. M-4.0



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 1

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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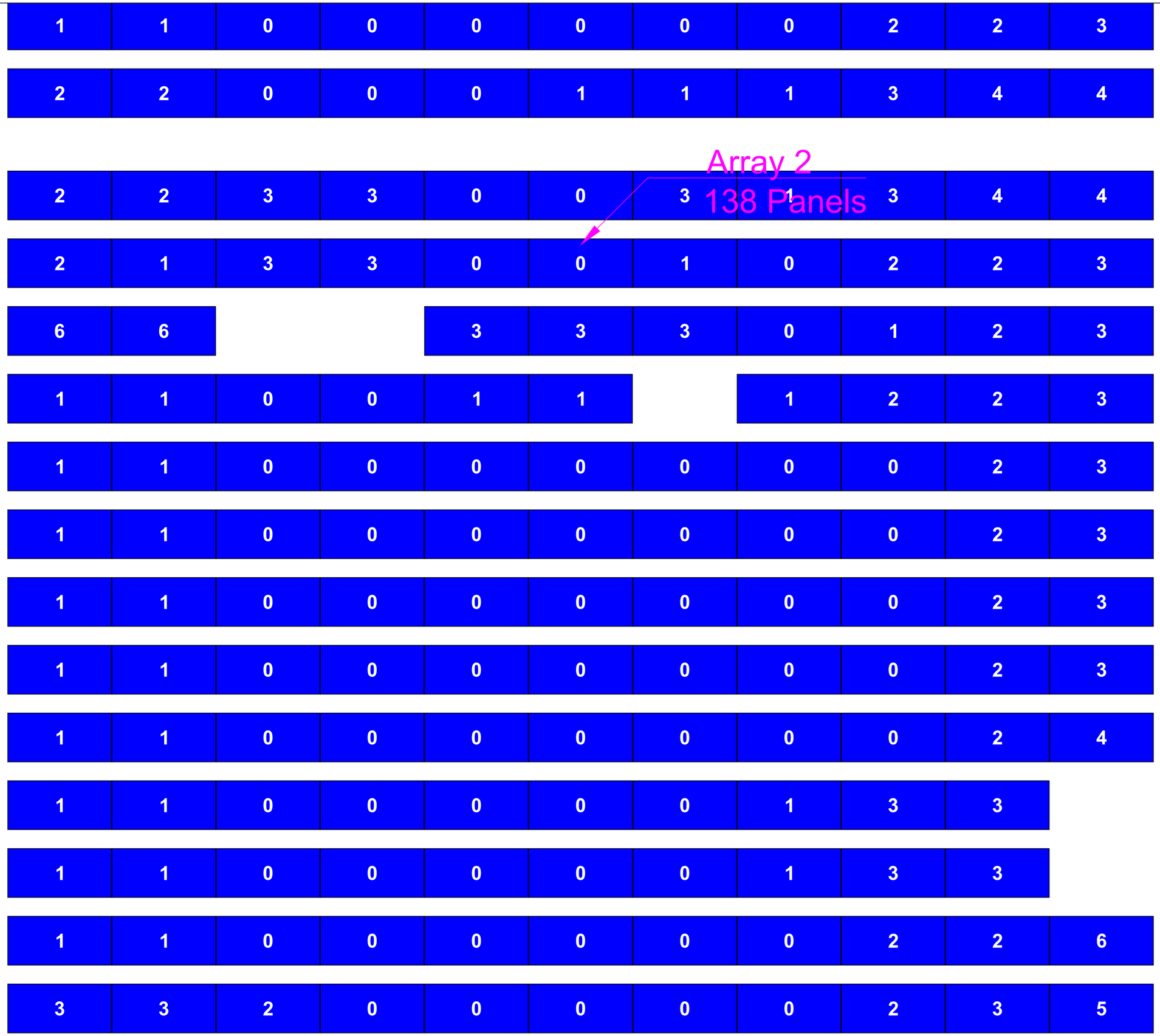
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

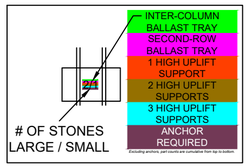
SHEET: 32 OF 85

DRAWING NO. M-4.1



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 2

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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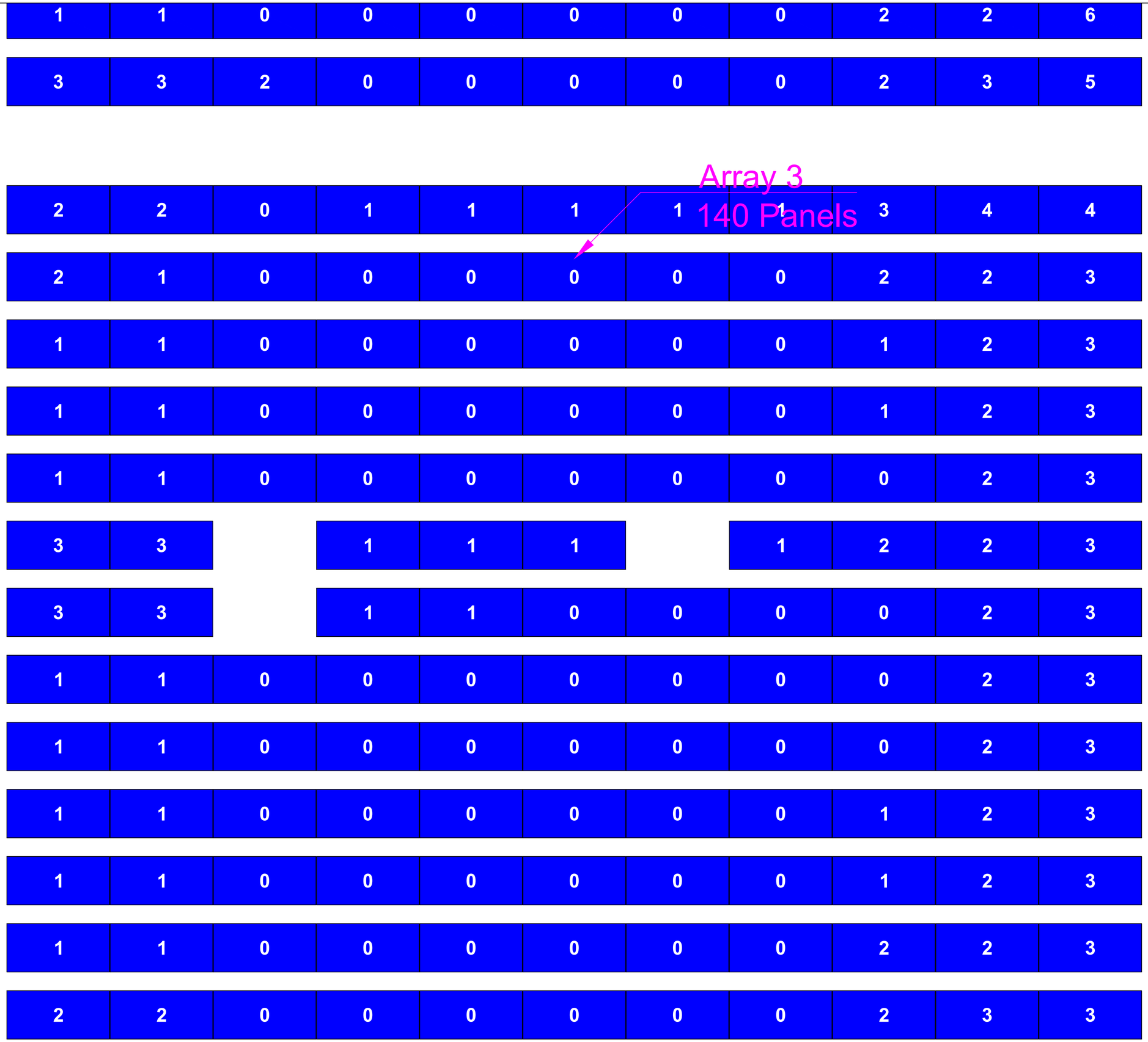
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

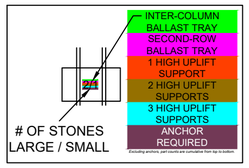
SHEET: 33 OF 85

DRAWING NO. M-4.2



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 3

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
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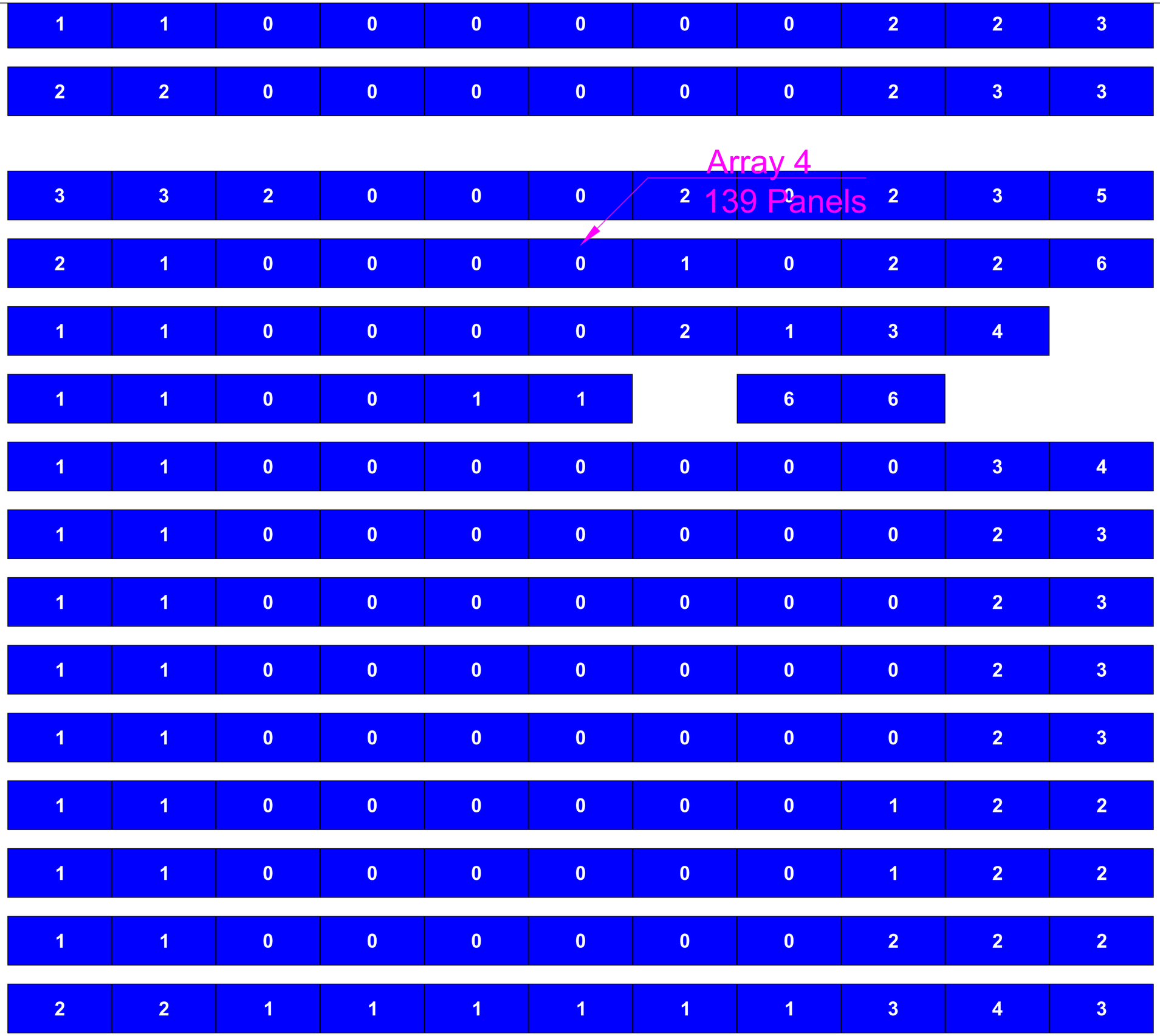
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

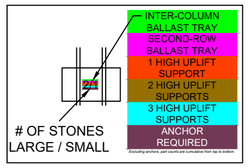
SHEET: 34 OF 85

DRAWING NO. M-4.3



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 4

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
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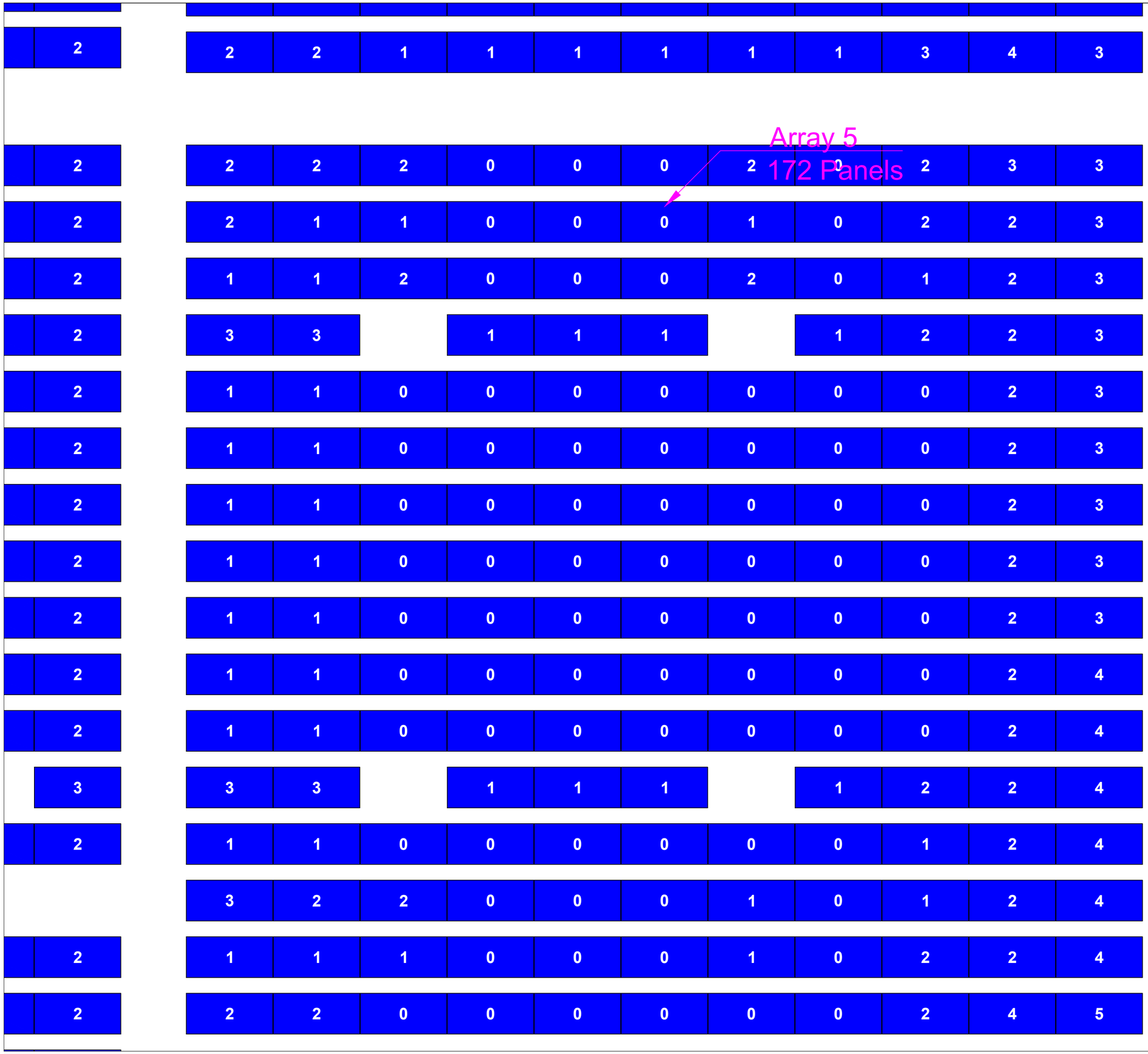
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

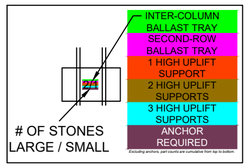
SHEET: 35 OF 85

DRAWING NO. M-4.4



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 5

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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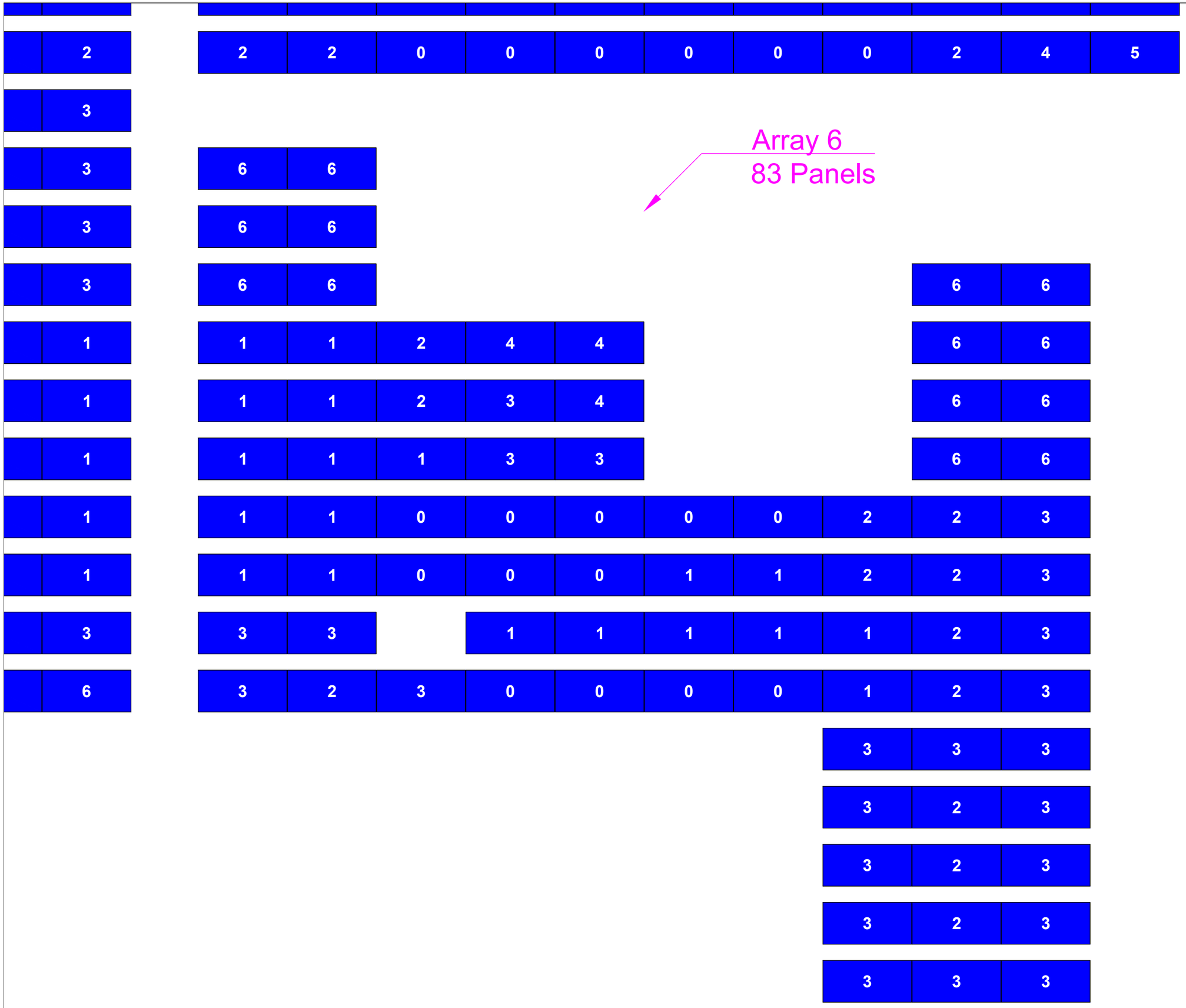
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

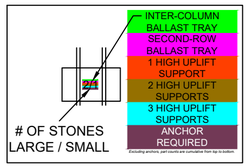
SHEET: 36 OF 85

DRAWING NO. M-4.5



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 6

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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TORONTO, ONTARIO M6K 0C7
CANADA

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M.N.	Z.U.	1

PROJECT NO.: -

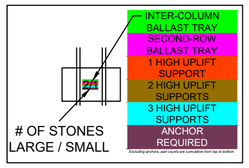
DATE: 2025/12/22

SHEET: 37 OF 85

DRAWING NO. M-4.6

NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 7

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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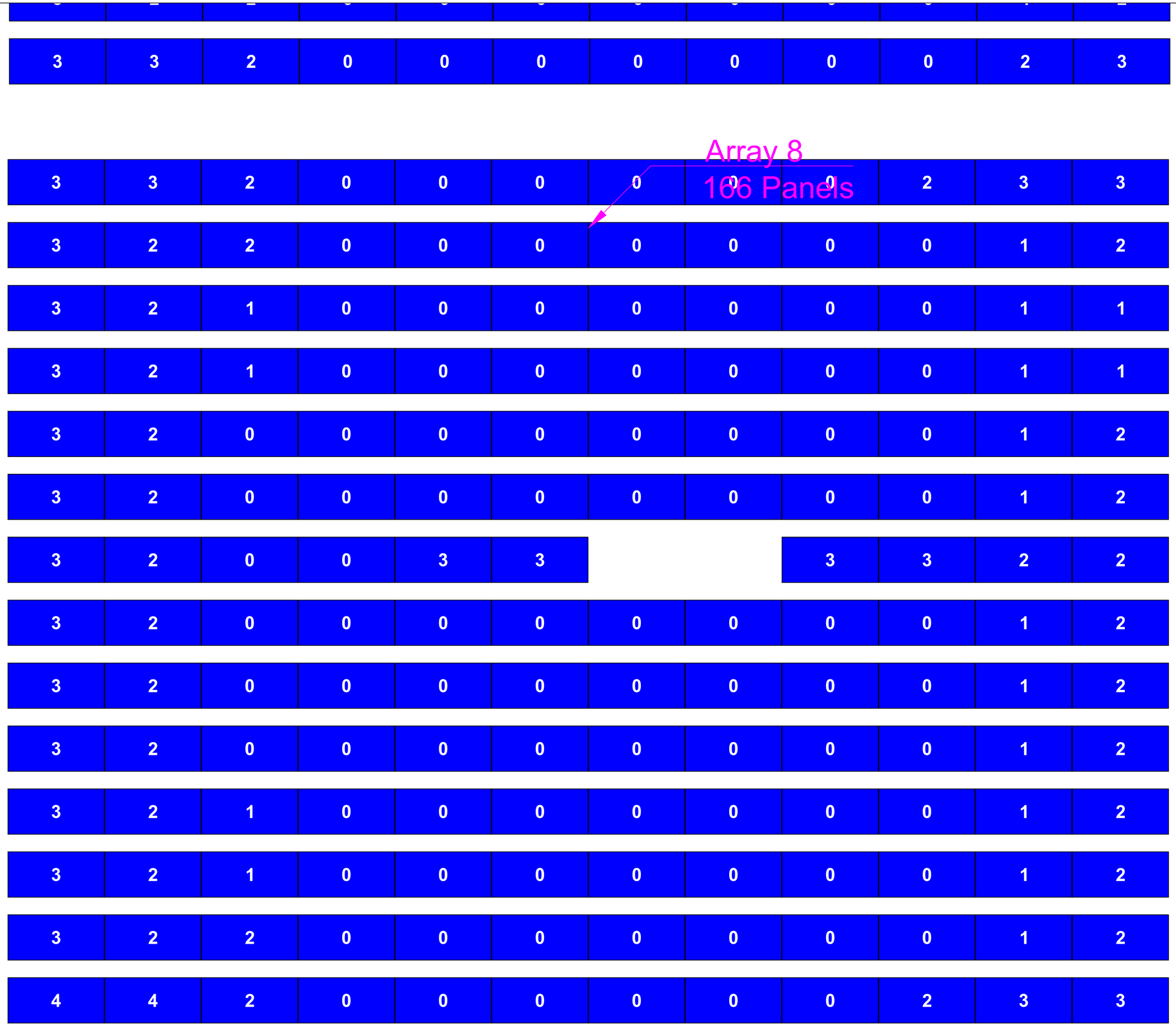
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

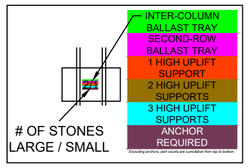
SHEET: 38 OF 85

DRAWING NO. M-4.7



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 8

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

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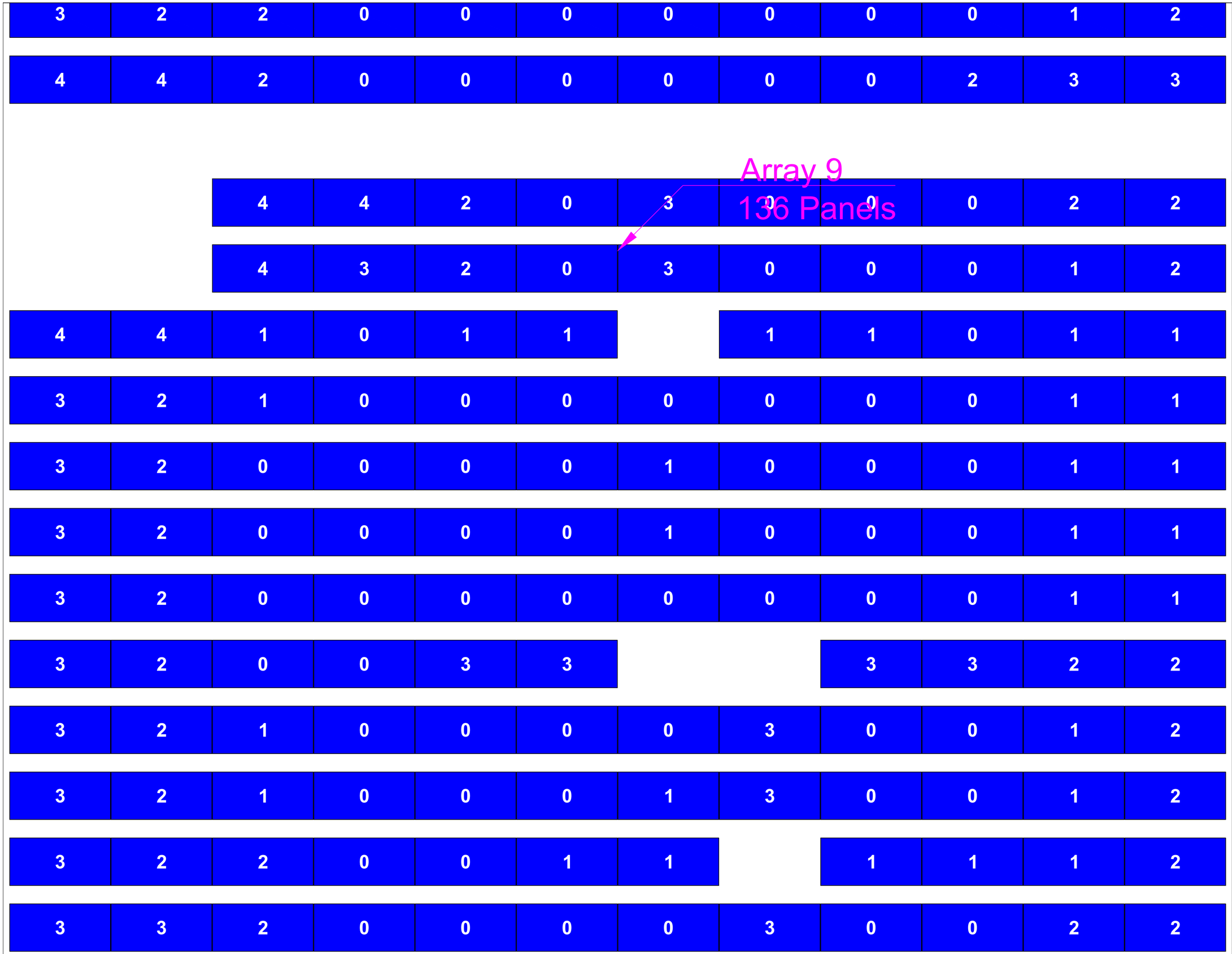
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

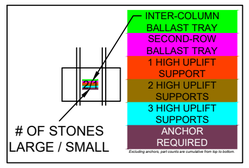
SHEET: 39 OF 85

DRAWING NO. M-4.8



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 9

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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LOCAL TEL: 416 532 2500
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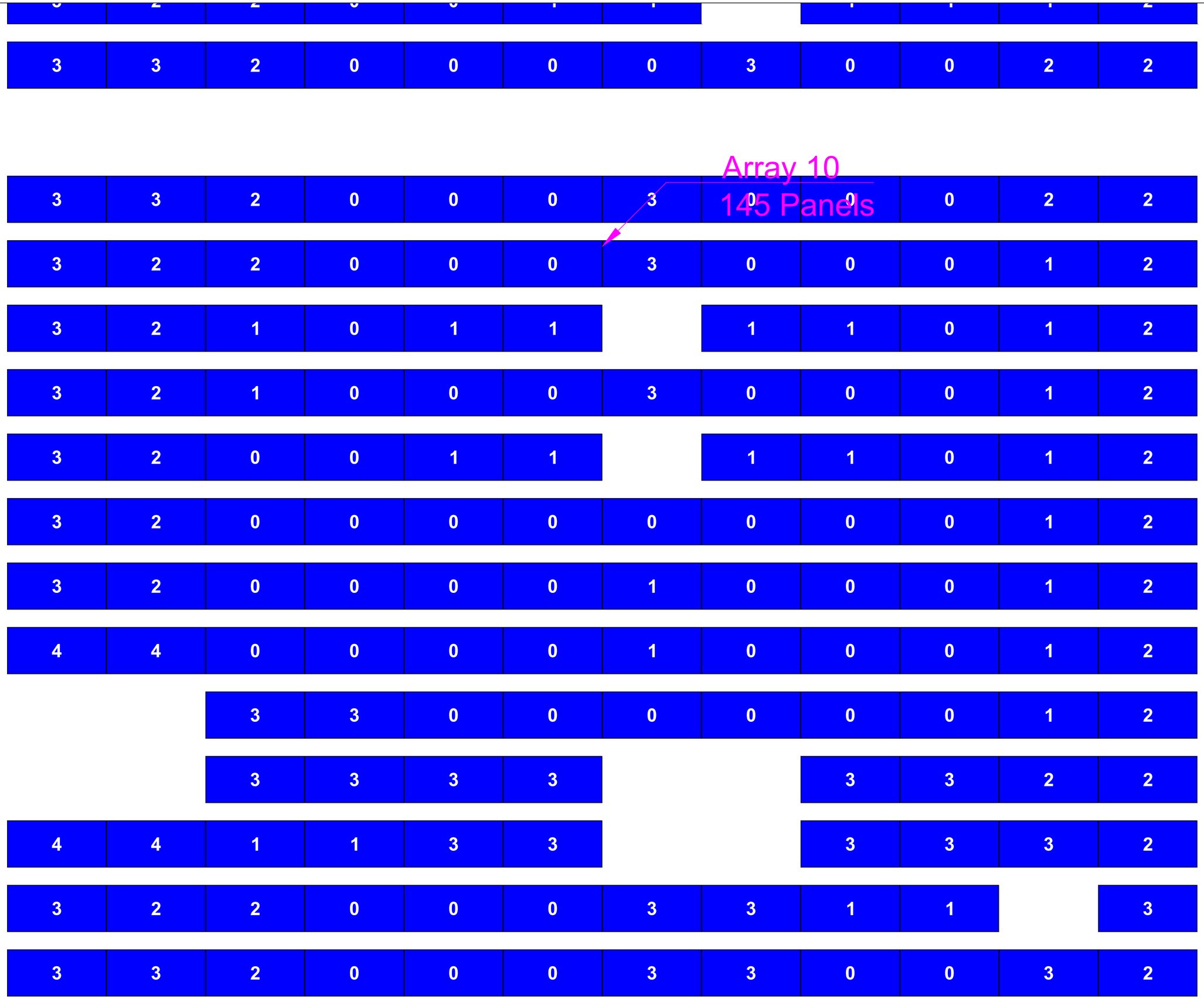
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

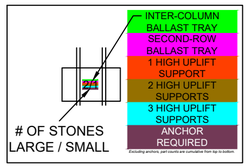
SHEET: 40 OF 85

DRAWING NO. M-4.9



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 10

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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TORONTO, ONTARIO M6K 0C7
CANADA

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LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

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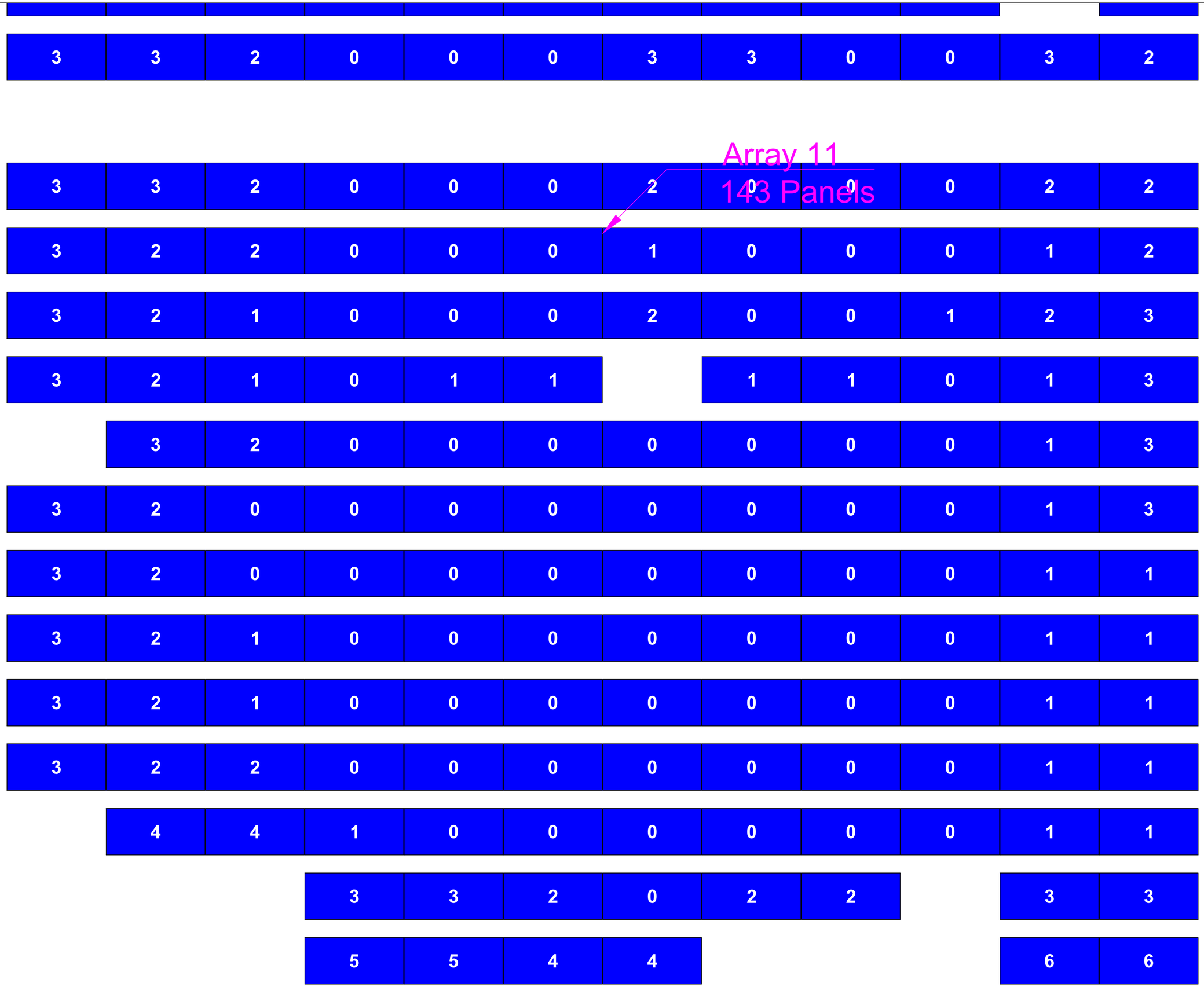
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

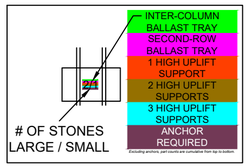
SHEET: 41 OF 85

DRAWING NO. M-4.10



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 11

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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TORONTO, ONTARIO M6K 0C7
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LOCAL TEL: 416 532 2500
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M.N.	Z.U.	1

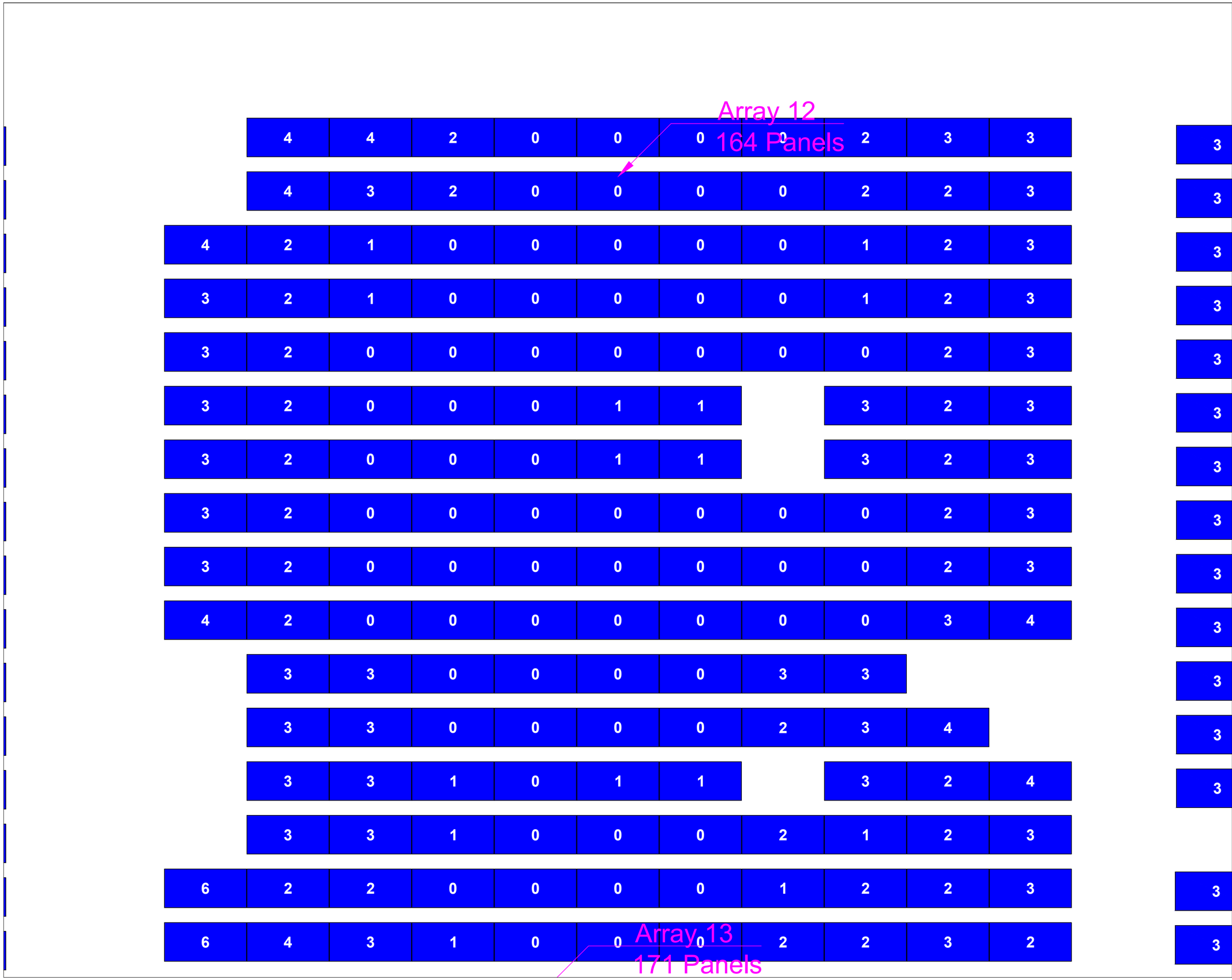
PROJECT NO.: -

DATE: 2025/12/22

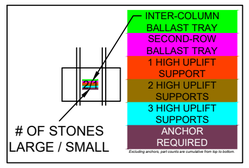
SHEET: 42 OF 85

DRAWING NO. M-4.11

NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m



LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 12

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

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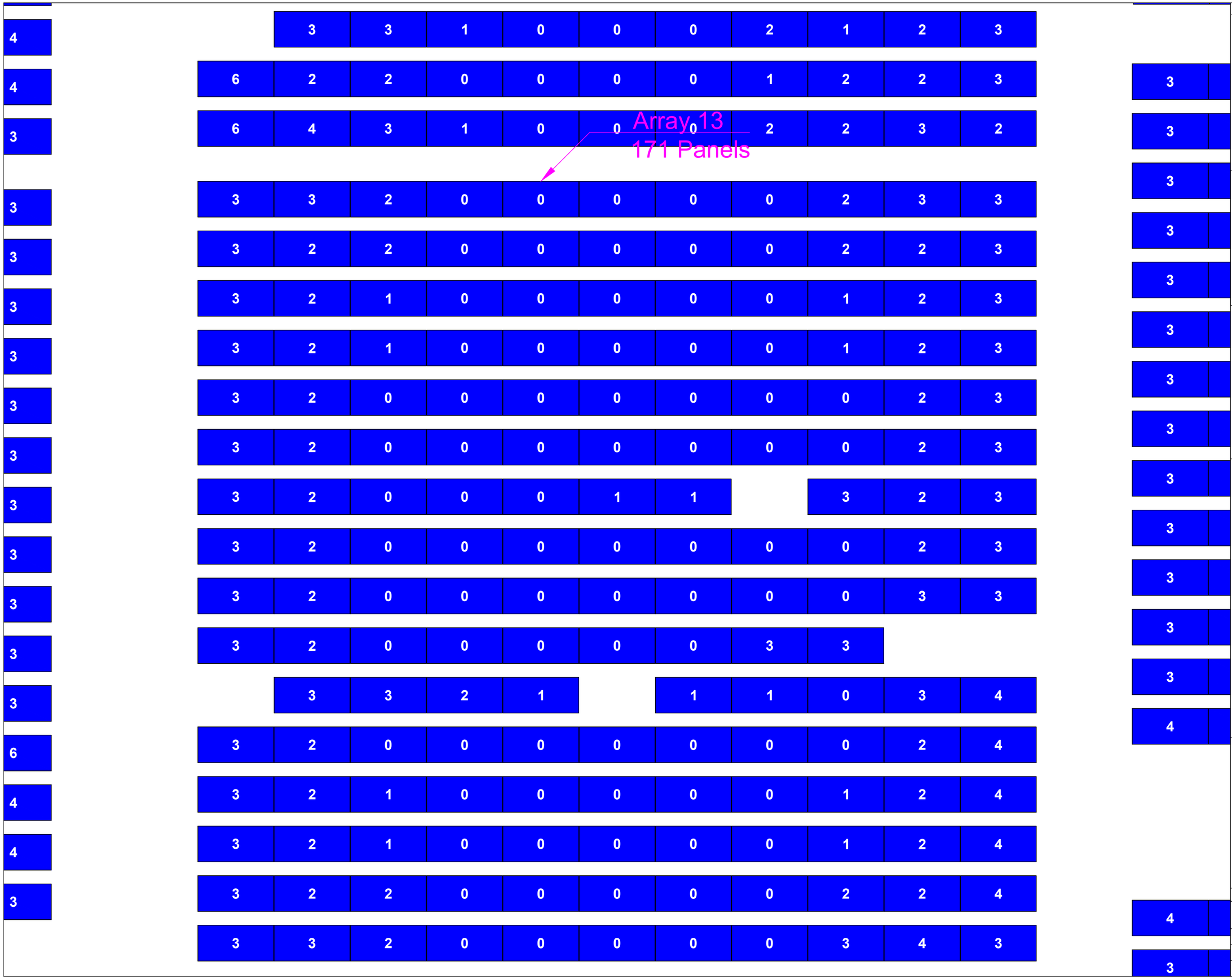
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

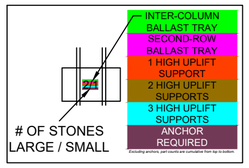
SHEET: 43 OF 85

DRAWING NO. M-4.12



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 13

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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1050 KING ST. W, SUITE 03A104
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CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

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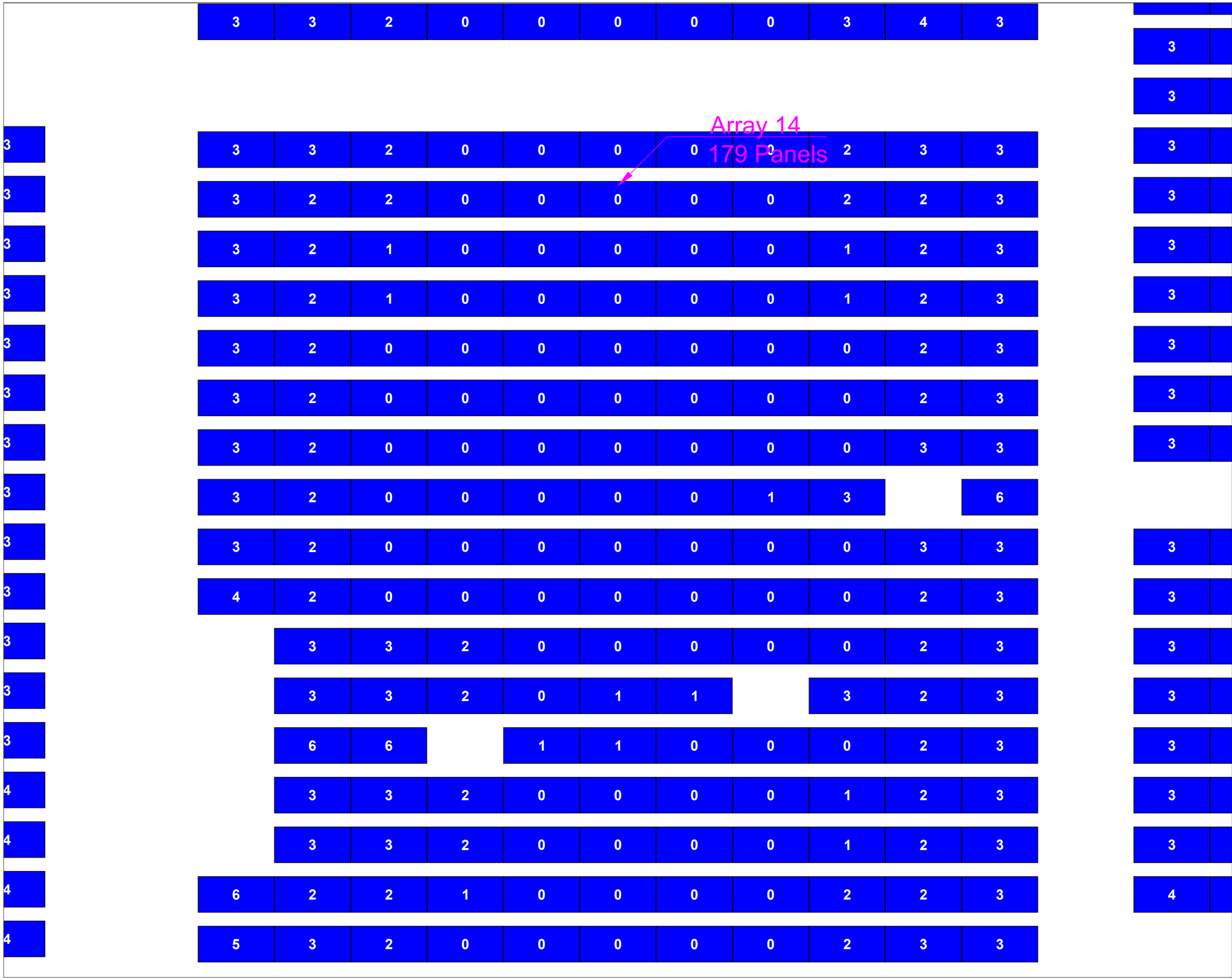
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

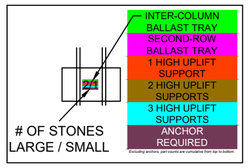
SHEET: 44 OF 85

DRAWING NO. M-4.13



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 14

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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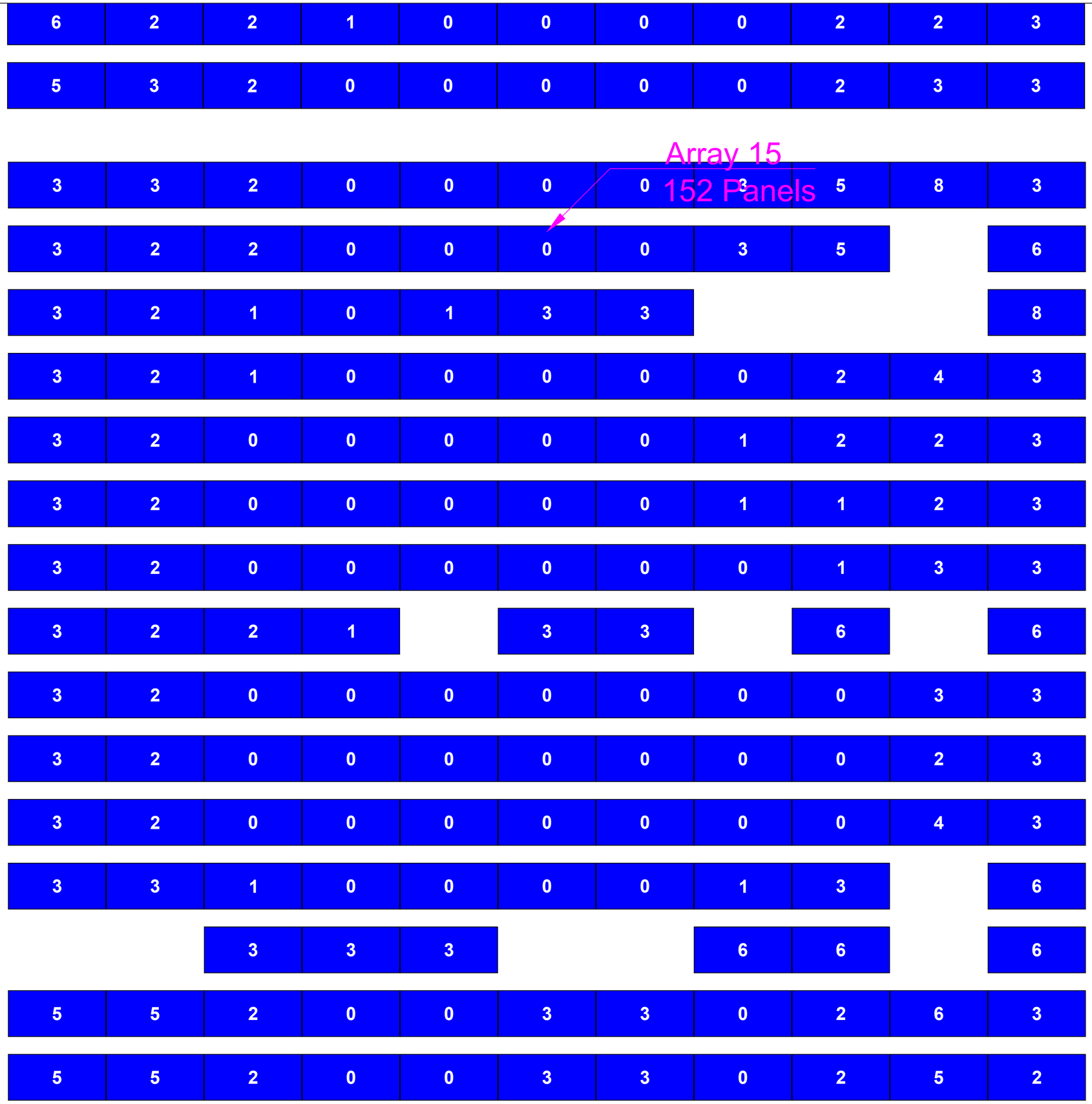
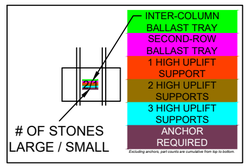
M.N.	Z.U.	1

PROJECT NO.: -
DATE: 2025/12/22
SHEET: 45 OF 85
DRAWING NO. M-4.14



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 15

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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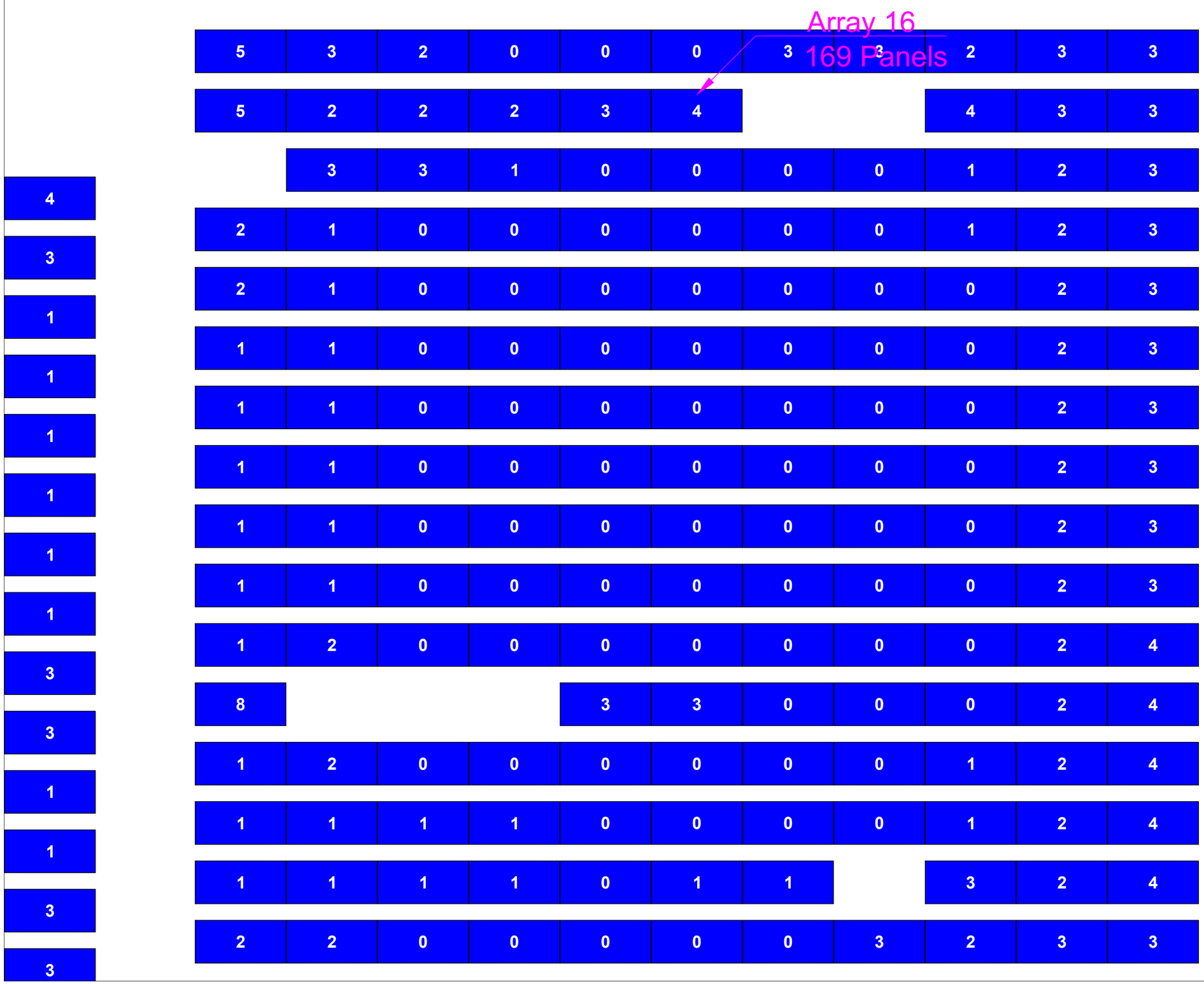
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

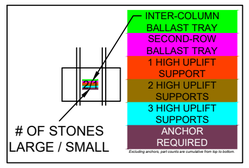
SHEET: 46 OF 85

DRAWING NO. M-4.15



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 16

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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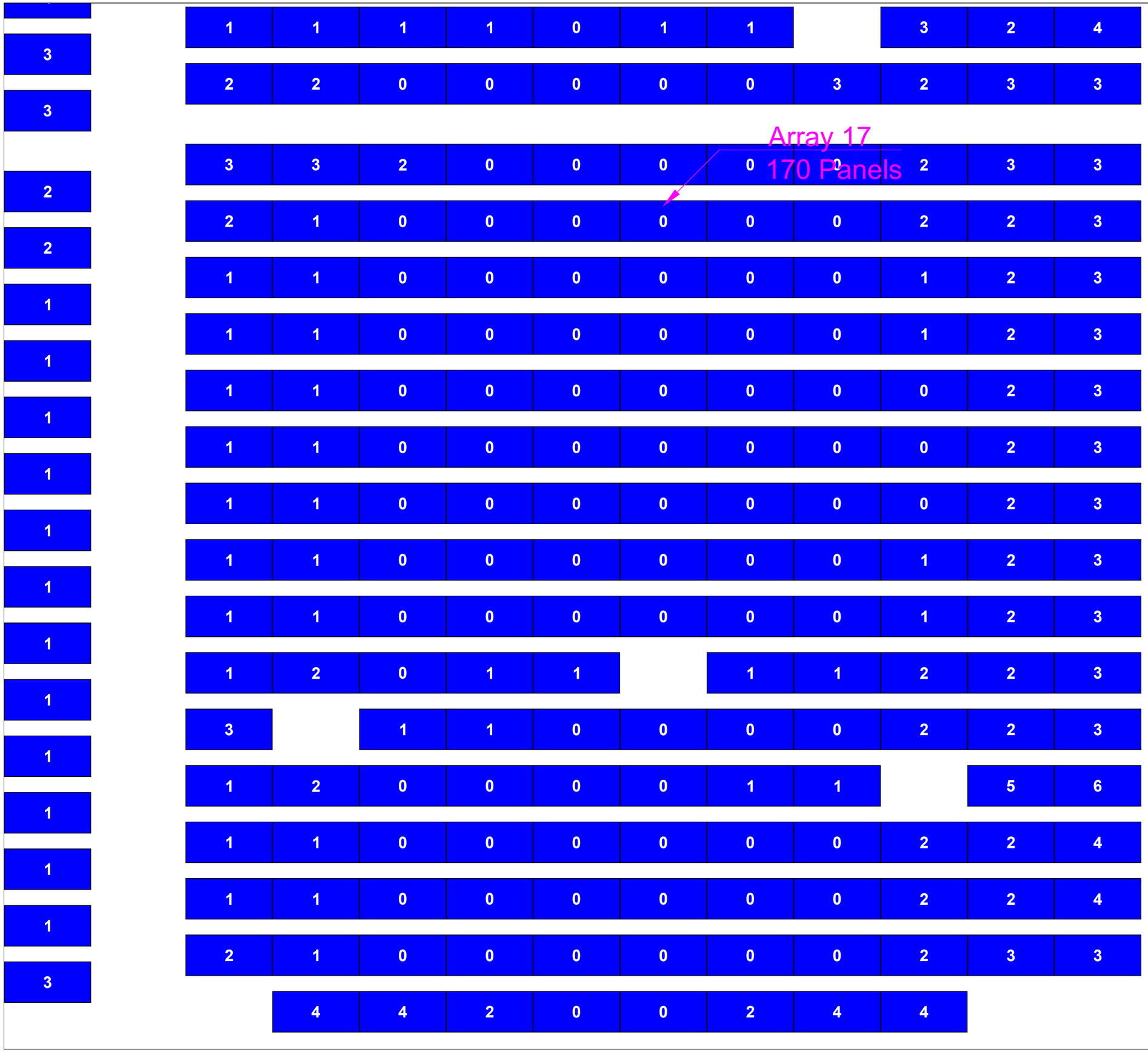
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

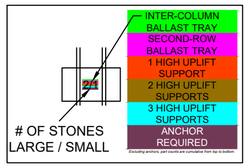
SHEET: 47 OF 85

DRAWING NO. M-4.16



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 17

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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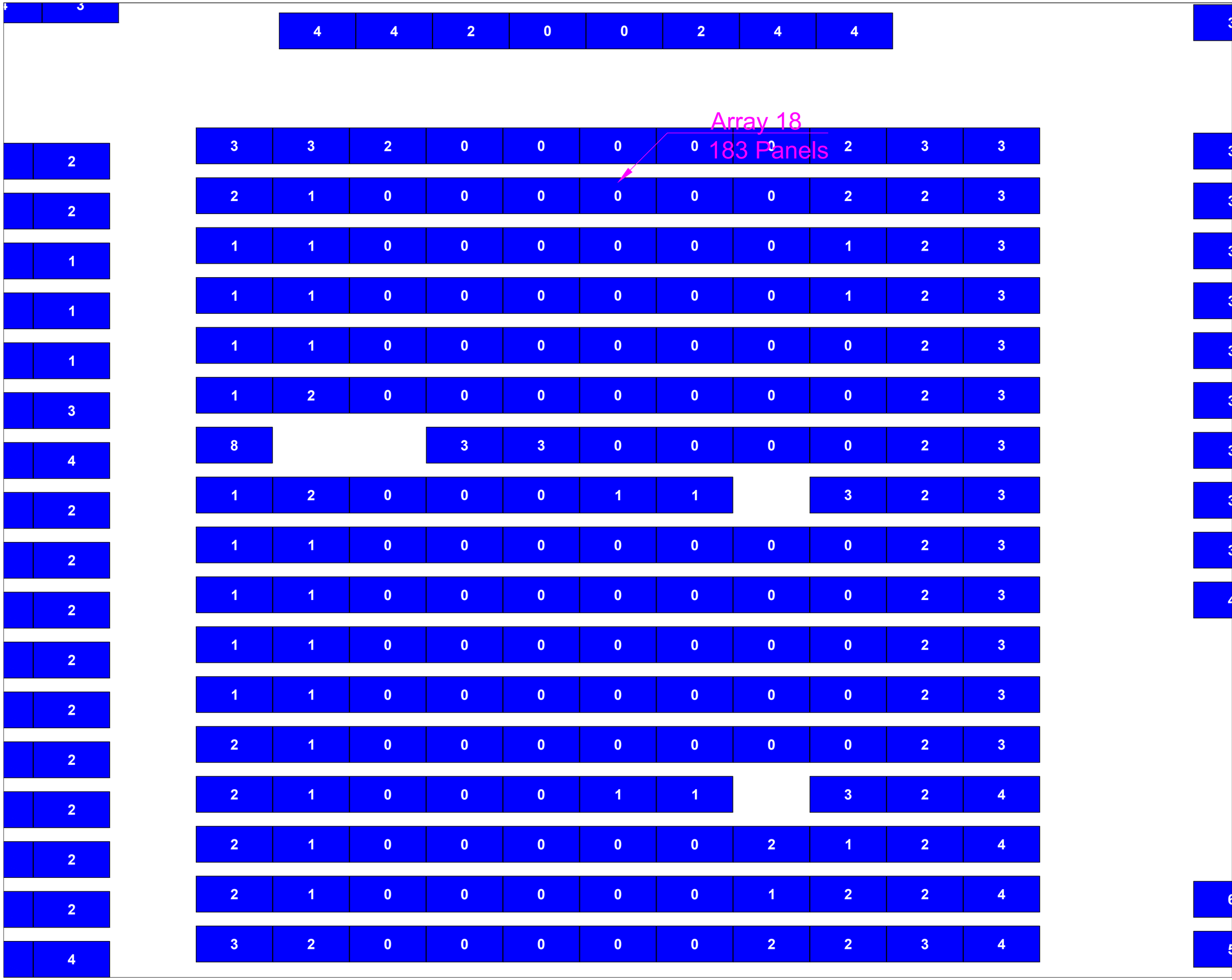
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

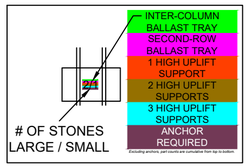
SHEET: 48 OF 85

DRAWING NO. M-4.17



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 18

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

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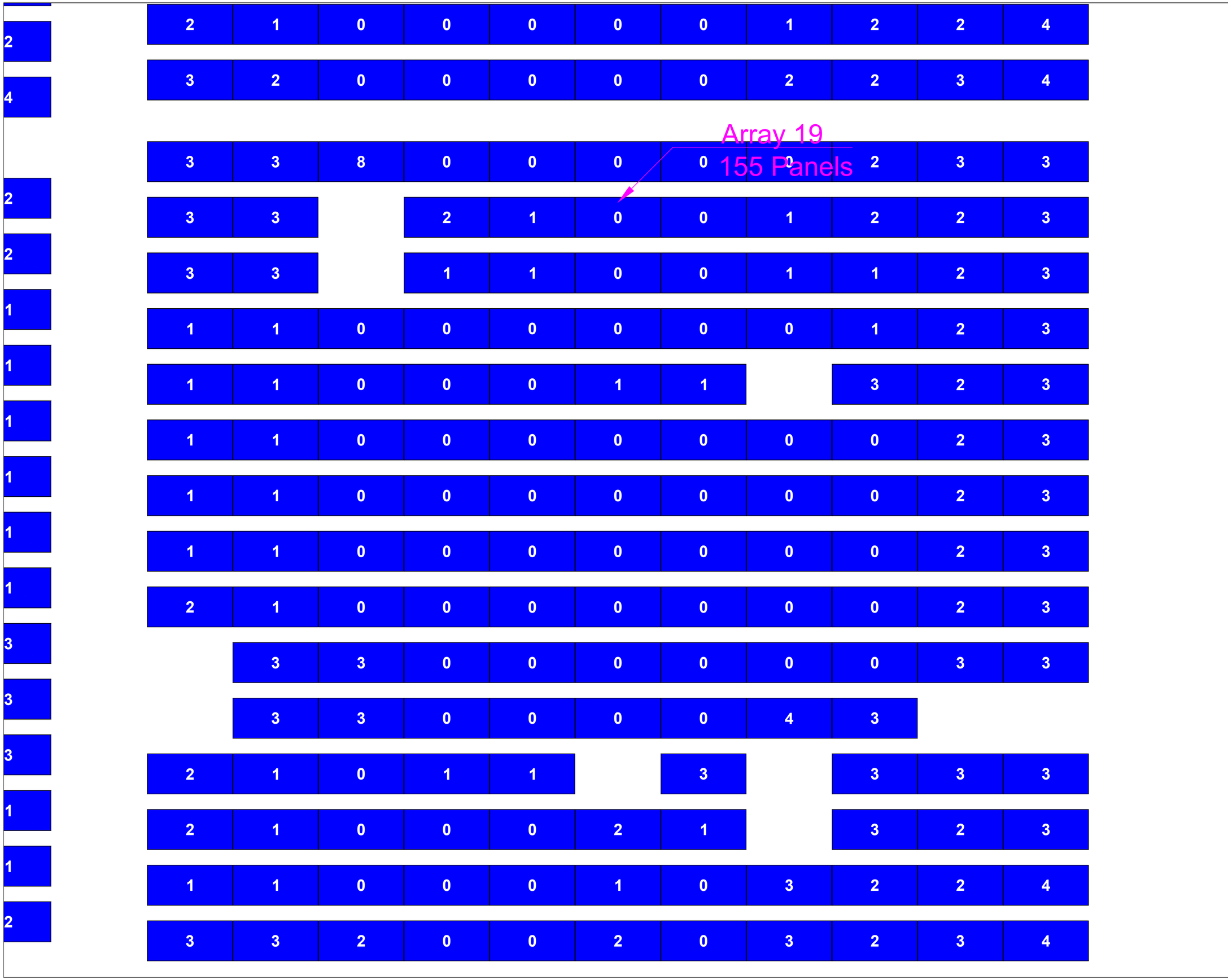
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

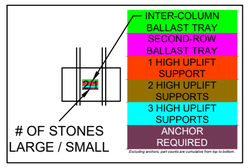
SHEET: 49 OF 85

DRAWING NO. M-4.18



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 19

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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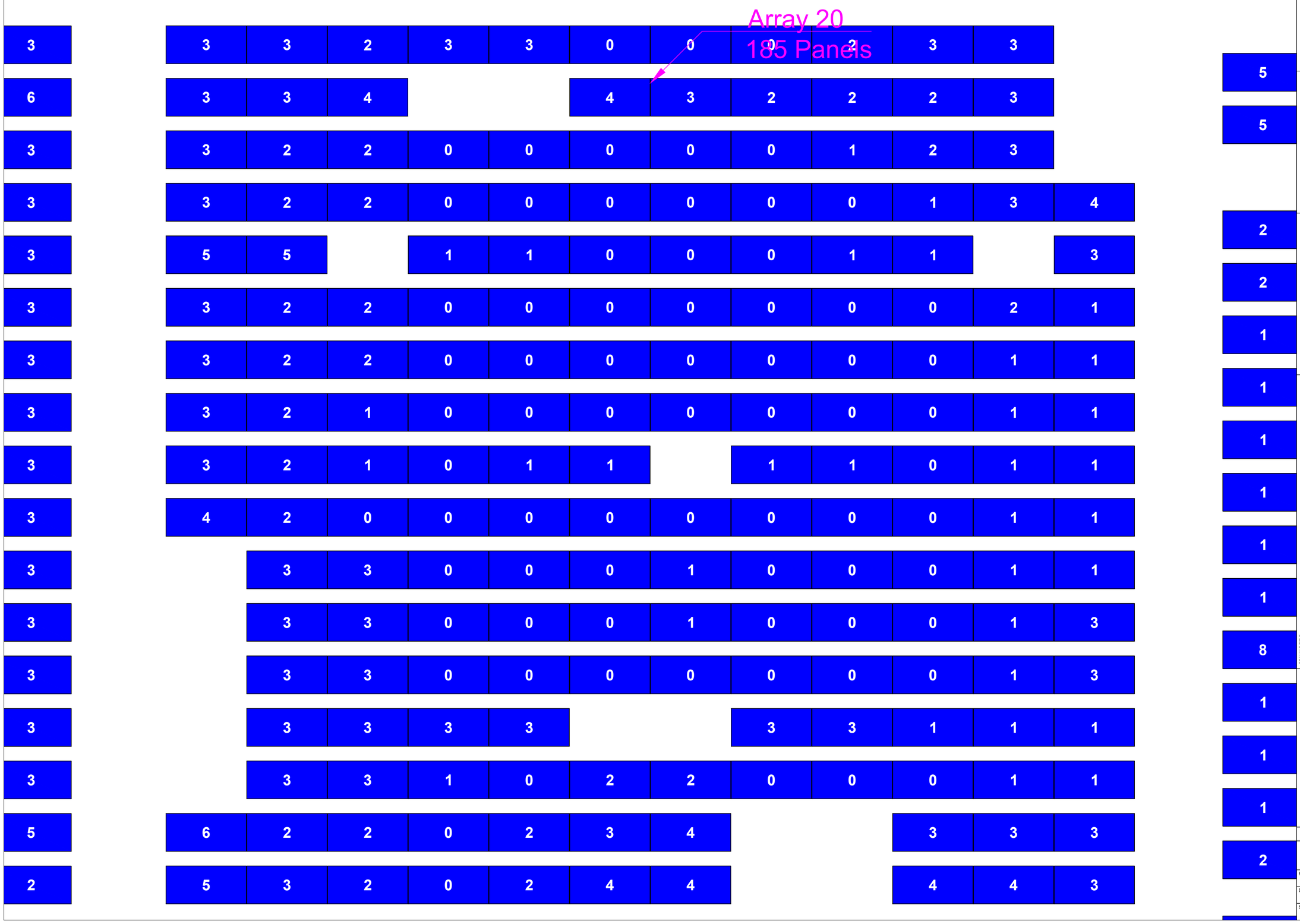
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

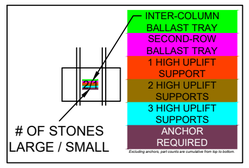
SHEET: 50 OF 85

DRAWING NO. M-4.19



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 20

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

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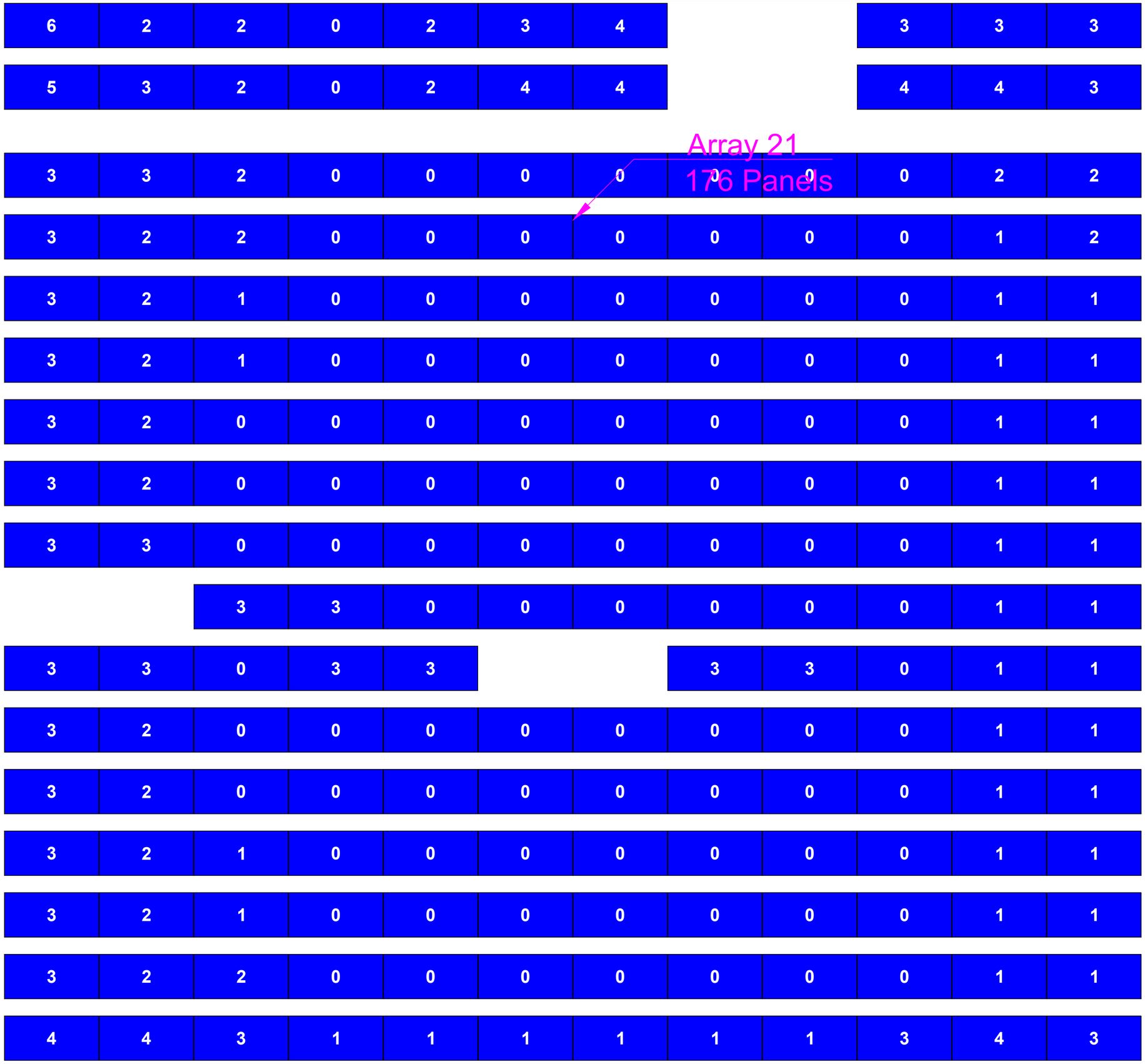
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

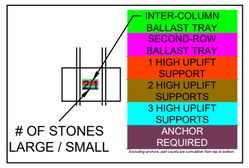
SHEET: 51 OF 85

DRAWING NO. M-4.20



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 21

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

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M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

SHEET: 52 OF 85

DRAWING NO. M-4.21

NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

Array 22
195 Panels

2	2	0	0	0	0	0	0	0	0	2	2
2	1	0	0	0	0	0	0	0	0	1	2
1	1	0	0	0	0	0	0	0	0	1	1
1	1	0	0	0	0	0	0	0	0	1	1
1	1	0	0	0	0	0	0	0	0	1	1
1	1	0	0	0	0	0	0	0	0	1	3
1	1	0	3	3			3	3	0	1	4
3	1	0	0	0	0	0	0	0	0	1	2
3	1	0	0	0	0	0	0	0	0	1	2
2	1	0	0	0	0	0	0	0	0	1	2
	3	2	0	0	0	0	0	0	0	1	2
	3	2	0	0	0	0	0	0	0	1	2
	3	2	0	0	1	1		1	1	1	2
	3	2	1	0	0	0	2	0	0	1	2
	3	2	1	0	0	0	1	0	0	1	2
3	1	0	0	0	0	0	2	0	0	1	2
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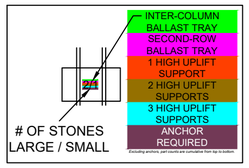
LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 22

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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TORONTO, ONTARIO M6K 0C7
CANADA

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LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

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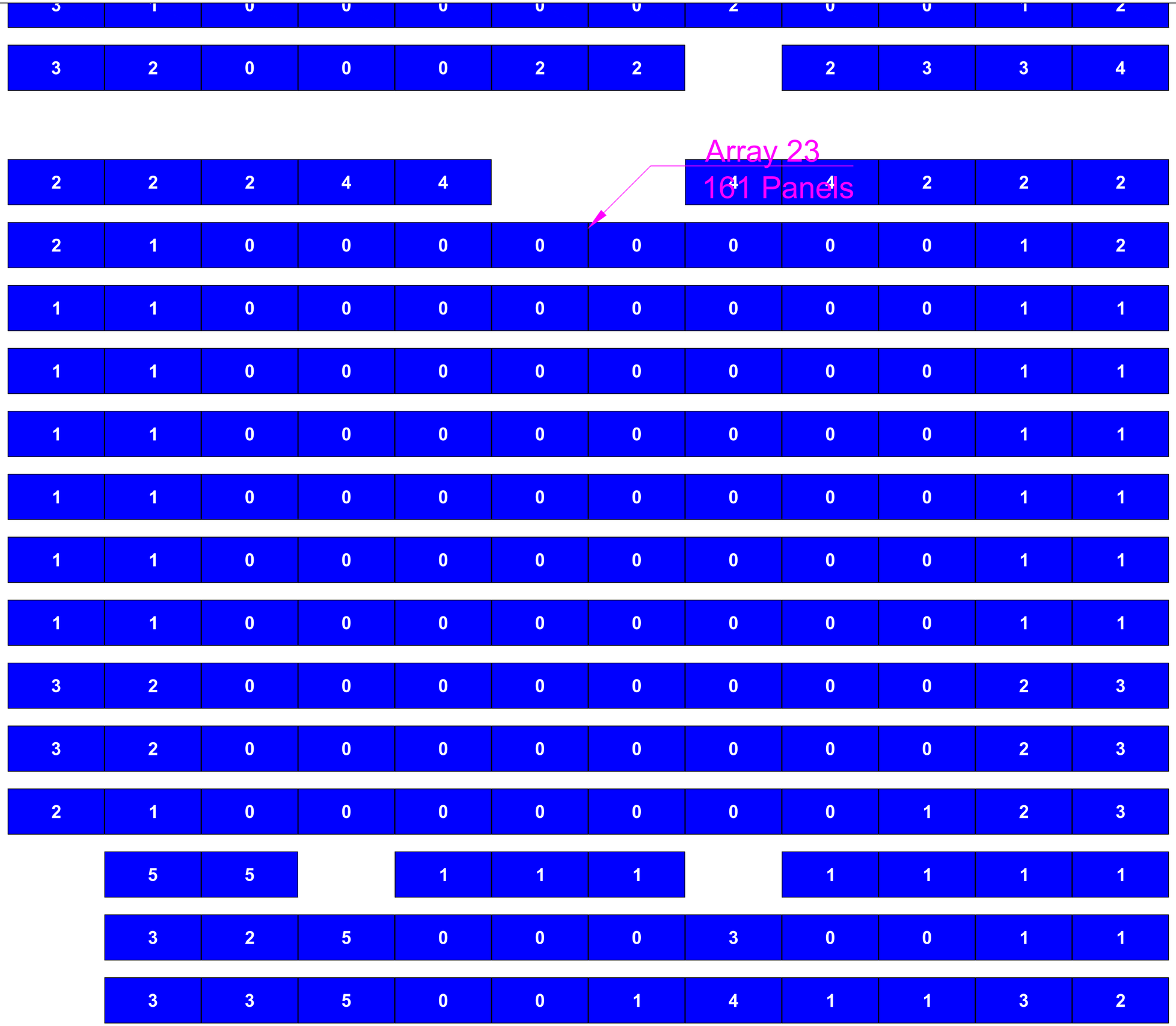
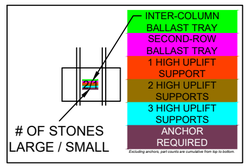
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -
DATE: 2025/12/22
SHEET: 53 OF 85
DRAWING NO. M-4.22



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 23

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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CANADA

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LOCAL TEL: 416 532 2500
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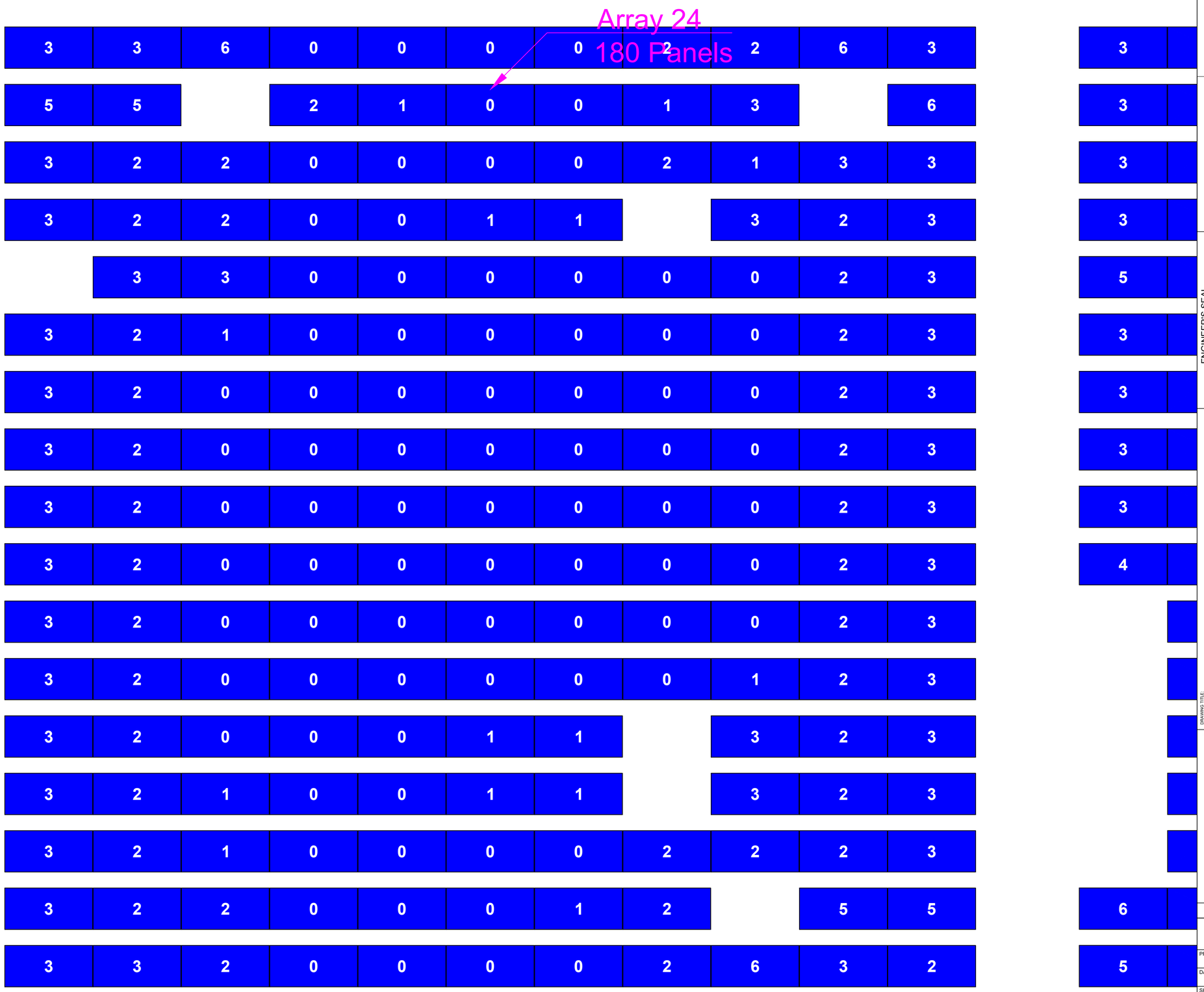
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

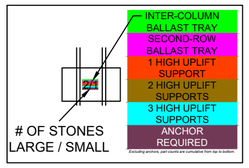
SHEET: 54 OF 85

DRAWING NO. M-4.23



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 24

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
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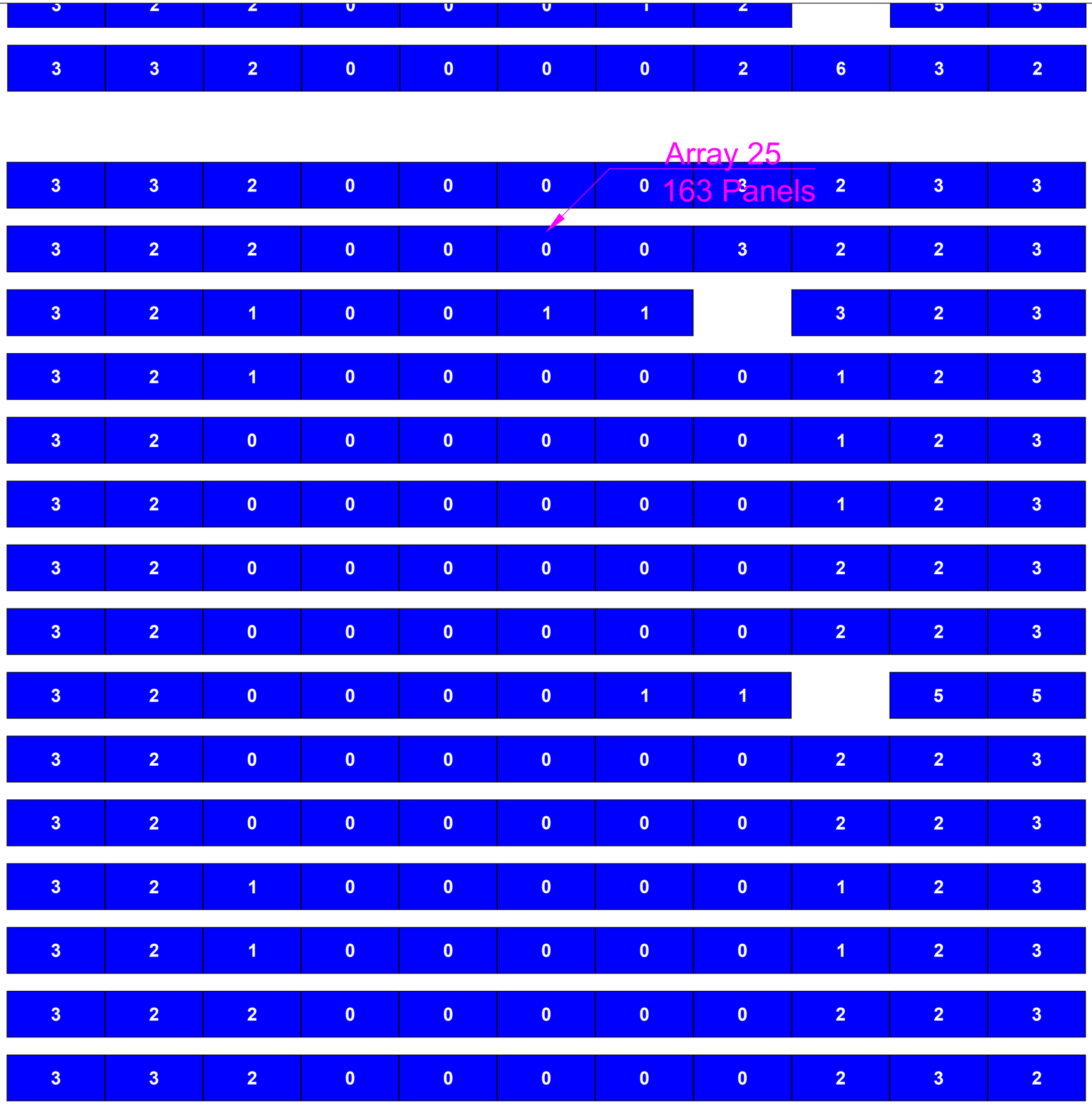
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

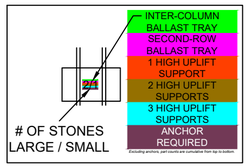
SHEET: 55 OF 85

DRAWING NO. M-4.24



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 25

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

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TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
LOCAL TEL: 416 532 2500
EMAIL: info@kbracking.com

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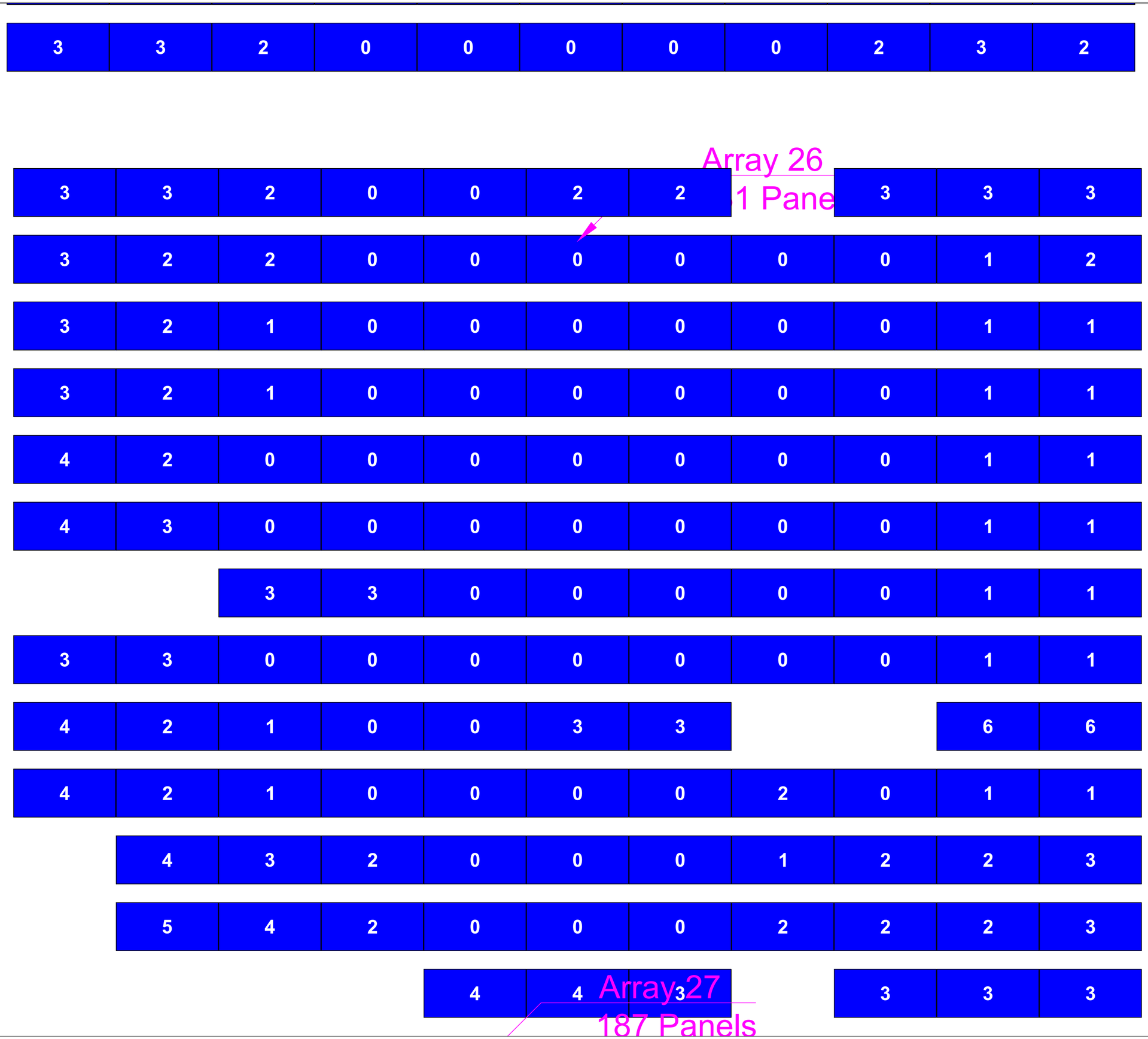
DRAWN BY:	CHECKED BY:	VERSION:
M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

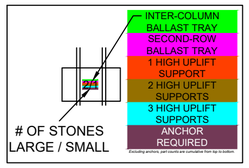
SHEET: 56 OF 85

DRAWING NO. M-4.25



NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 26

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
CANADA

TOLL - FREE TEL: 1.888.661.3204
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EMAIL: info@kbracking.com

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M.N.	Z.U.	1

PROJECT NO.: -

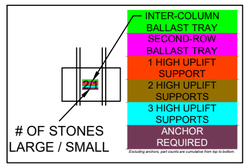
DATE: 2025/12/22

SHEET: 57 OF 85

DRAWING NO. M-4.26

NOTE:
4329 Modules (Jinko 625W)
DC Output: 2705.63 kW (DC)
AeroGrid L: 10 Degree Tilt
Row Spacing: 1.56m
Inter-Row Spacing: 0.44m
Setback from edge: 1.22m

LEGEND



ENGINEER'S SEAL

DRAWING TITLE: PAVER ARRAY 27

PROJECT: 1600 50e Avenue
1600 50e Avenue
Lachine, QC H8T 2V5

CLIENT: kWh Quebec Inc

PROVIDER

KB RACKING®

1050 KING ST. W, SUITE 03A104
TORONTO, ONTARIO M6K 0C7
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TOLL - FREE TEL: 1.888.661.3204
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M.N.	Z.U.	1

PROJECT NO.: -

DATE: 2025/12/22

SHEET: 58 OF 85

DRAWING NO. M-4.27