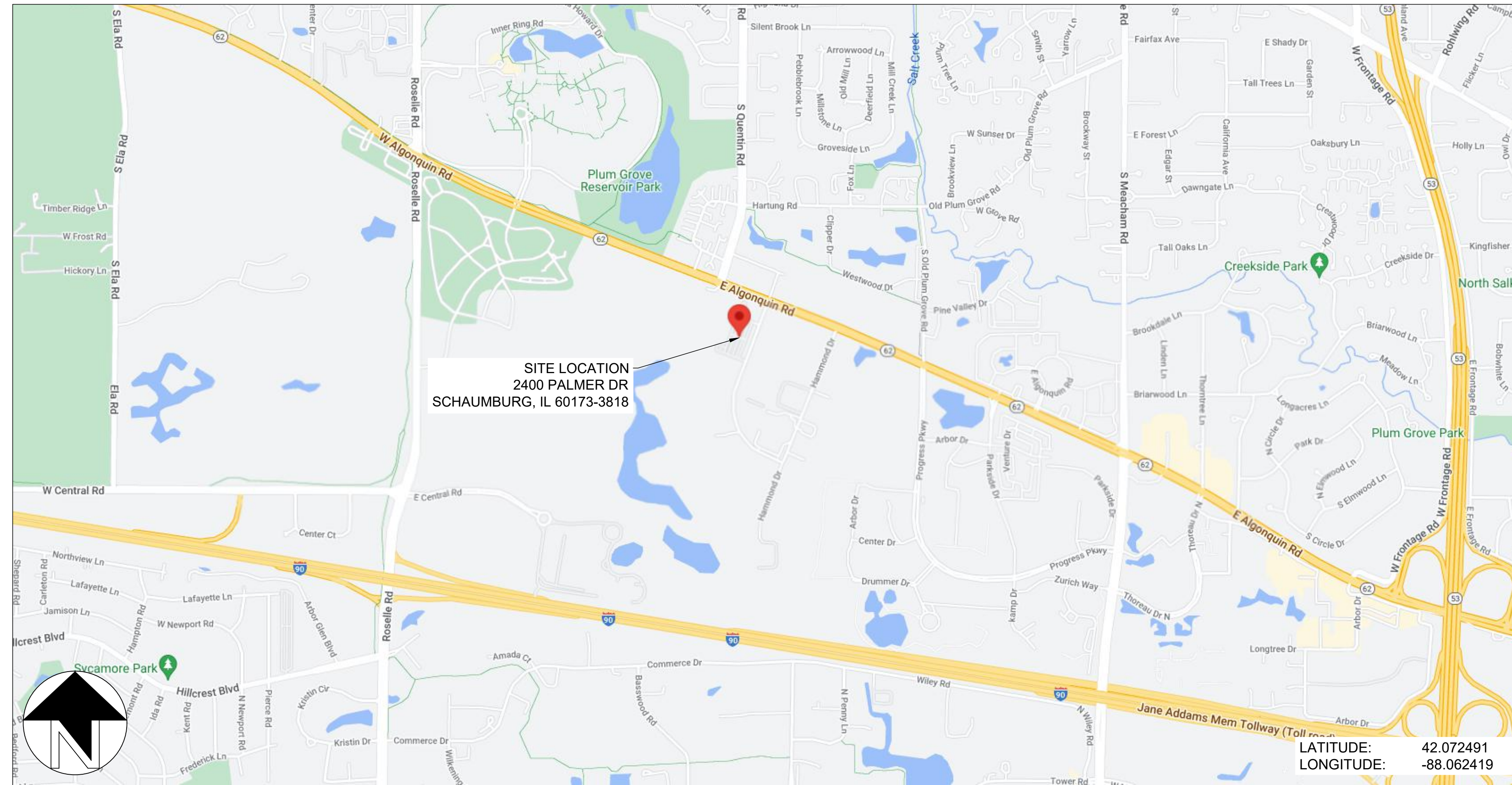


PUBLIC STORAGE #28166 - 2400 PALMER DR 2400 PALMER DR, SCHAUMBURG, IL 60173-3818 ROOFTOP PV SYSTEM - ISSUED FOR PERMIT

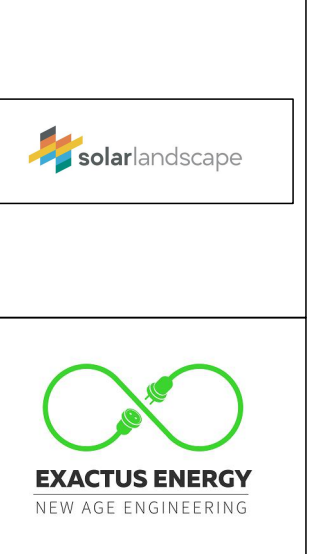
DRAWING INDEX

- G01 - TITLE SHEET
- G10 - OVERALL SITE PLAN
- G20 - ARRAY PLAN
- G21 - ARRAY DIMENSIONS
- G22 - BUILDING ELEVATIONS
- G30 - FIRE ACCESS PLAN
- E01 - ELECTRICAL NOTES
- E10 - ELECTRICAL SITE PLAN
- E11 - EQUIPMENT PLANS / ELEVATION
- E20 - DC STRINGING PLAN
- E30 - LINE DIAGRAM
- E31 - AC & DC CALCULATIONS
- E32 - AC & DC CALCULATIONS
- E33 - AC & DC CALCULATIONS
- E40 - ELECTRICAL DETAILS
- E50 - LABELING
- E60 - GROUNDING DETAILS
- E70 - EQUIPMENT SPECS
- E71 - EQUIPMENT SPECS



LATITUDE: 42.072491
LONGITUDE: -88.062419

DEVELOPER INFORMATION	
DEVELOPER	SOLAR LANDSCAPE
ADDRESS	601 BANGS AVE, UNIT 3
MUNICIPALITY	ASBURY PARK, NJ 07712
PHONE	(846) 419-2645
EMAIL	LUCAS@SOLARLANDSCAPE.COM



SYSTEM CHARACTERISTICS	
DC SIZE (KW DC)	774.88
AC SIZE (KW AC)	500.00
DC/AC RATIO	1.55

MODULE INFORMATION	
MANUFACTURER	JINKO
MODEL NUMBER(S)	JKM580N-72HL4-BDV
PMAX @ STC (W)	580
ISC (A)	14.37
IMP (A)	13.62
VOC (V)	51.47
VMP (V)	42.59
TEMP COEFF OF VOC (%/°C)	-0.25
TEMP COEFF OF PMAX (%/°C)	-0.29
VOC @ MIN TEMP.	58.78
VMP @ MAX TEMP.	37.64
NUMBER OF MODULES	1336

INVERTER INFORMATION	
MANUFACTURER	SOLAREEDGE
MODEL NUMBER(S)	SE100K-USx8xxxx (480V)
MAXIMUM DC INPUT VOLTAGE (V)	1000
MAXIMUM DC INPUT POWER (W)	175000
NOMINAL AC OUTPUT VOLTAGE (V)	480
MPPT OPERATING VOLTAGE RANGE (V)	SEE OPTIMIZER SPECS
NOMINAL AC POWER (W)	100000
MAX CONTINUOUS OUTPUT CURRENT (A)	120
NUMBER OF INVERTERS	5

OPTIMIZER INFORMATION	
MANUFACTURER	SOLAREEDGE
MODEL NUMBER(S)	S1201
MODULES PER OPTIMIZER	2
MAXIMUM SYSTEM VOLTAGE (V)	1000
RATED DC INPUT POWER (W)	1200
MAX CONTINUOUS OUTPUT CURRENT (A)	18
MPPT VOLTAGE RANGE	12.5 - 125
NUMBER OF OPTIMIZERS	679

PROJECT NOTES:

1. CONSULT SOLAR LANDSCAPE BEFORE DEVIATING FROM THIS DRAWING PACKAGE.
2. PROJECT TYPE: COMMUNITY SOLAR
3. UTILITY COMPANY: COMED
4. INTERCONNECTION VOLTAGE: 12470V
5. AHJ: SCHAUMBURG VILLAGE

COMMERCIAL CONSTRUCTION DESIGN PARAMETERS	
HIGH TEMPERATURE:	30.1°C
LOW TEMPERATURE:	-31.8°C

APPLICABLE CODES	
NATIONAL ELECTRICAL CODE - NFPA 70 2020 (NEC)	
STANDARD FOR ELECTRICAL SAFETY IN THE WORKFORCE - NFPA 70E 2018	
INTERNATIONAL ELECTRICAL TESTING ASSOCIATION - ANSI/NETA STANDARD	
UL 1703 - SOLAR MODULES	
UL 1741 - INVERTERS, COMBINER BOXES (UL1741SA WHERE APPLICABLE)	
UL 2703 - RACKING RAILS, MOUNTS AND CLAMPS FOR PV MODULES	
2021 - INTERNATIONAL BUILDING CODE (IBC)	
2021 - INTERNATIONAL EXISTING BUILDING CODE (IEBC)	
2021 - INTERNATIONAL FIRE CODE (IFC)	

FOR OFFICIAL USE ONLY:

	EXISTING BUILDING	PROPOSED ALTER
IBC OCCUPANCY CLASSIFICATION	STORAGE S2	STORAGE S2
NFPA 101 CLASSIFICATION	STORAGE	STORAGE
TYPE OF CONSTRUCTION	TYPE I & TYPE II	TYPE I & TYPE II
NUMBER OF STORIES ABOVE GRADE	1 & 3	1 & 3
HIGH RISE (Y / N)	N	N
COVERED MALL (Y / N)	N	N
FULLY SPRINKLERED (Y / N)	Y	Y
FIRE ALARM (Y / N)	Y	Y
FLOOR AREA OF RENOVATION	NA	78,991 SQ. FT.

PUBLIC STORAGE #28166 - 2400 PALMER DR
2400 PALMER DR
SCHAUMBURG, IL 60173-3818

DRAWN BY: JM
CHECKED BY: JR
DATE: 25-Jul-2024

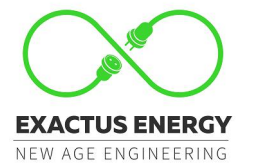
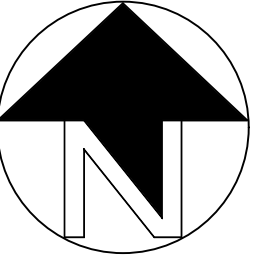
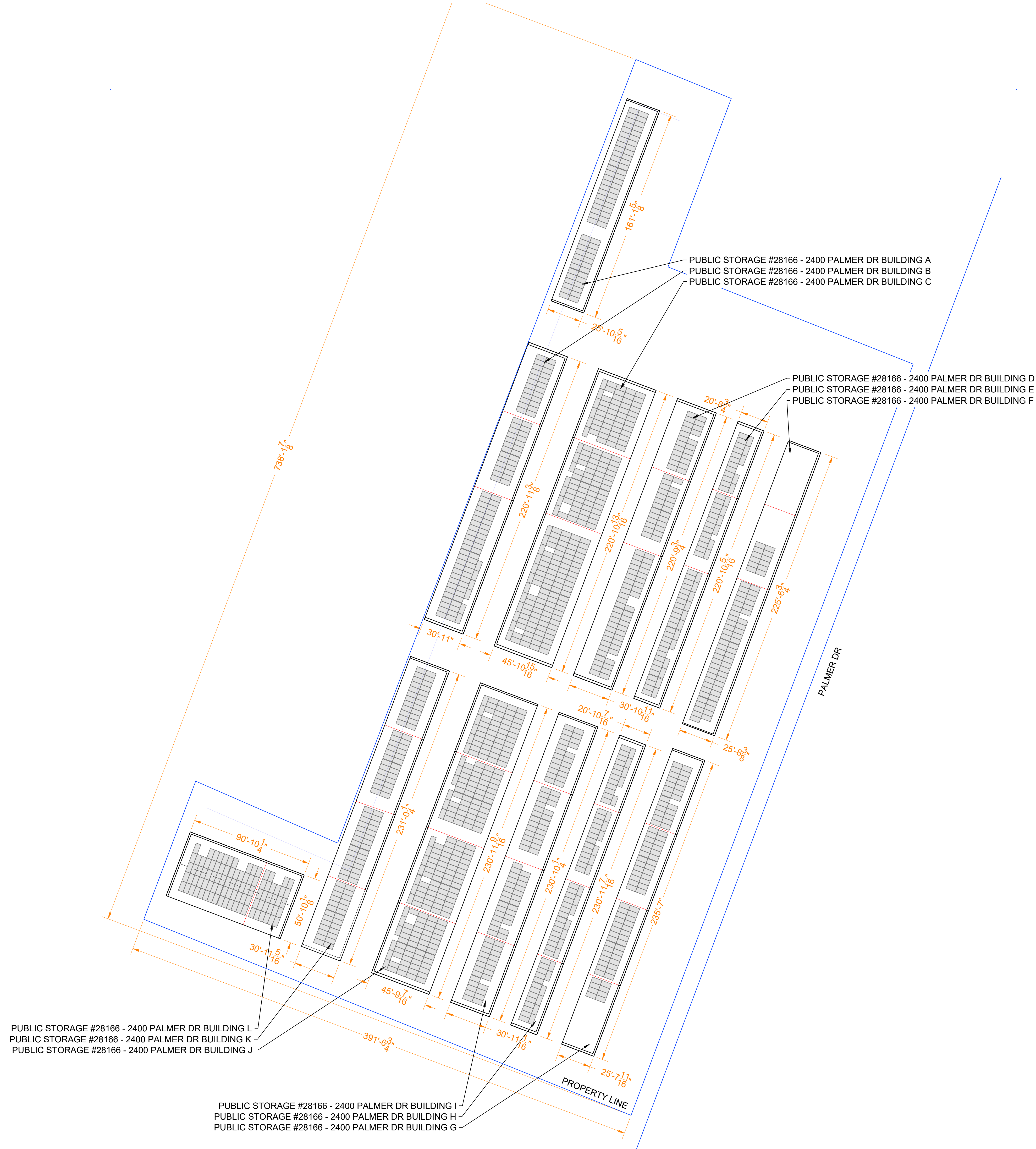
DRAWING LEVEL ISSUED FOR PERMIT

REV.	DRAWING LEVEL				
	A	B	C	D	E

SHEET SIZE: 36X24 SHOULD MEASURE 1"
SCALE: NTS
SHEET TITLE: **G01**
TITLE SHEET

NOTES:

1. ALL DIMENSIONS TO BE FIELD VERIFIED. LOCATIONS SHOWN ARE APPROXIMATE.
2. ALL PV ELECTRICAL EQUIPMENT TO BE INSTALLED AS PER INSTALLATION MANUALS AND NEC REQUIREMENTS.
3. CARE SHALL BE TAKEN TO ENSURE CONDUITS AND RACEWAYS ARE ORIENTED TO MINIMIZE INTERFERENCE WITH FIRE ACCESS WALKWAYS.
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8. ROOF AND MODULE LAYOUTS ARE BASED ON INFORMATION COLLECTED DURING THE SITE SURVEY. ROOF ALTERATIONS MADE AFTER THE SURVEY DATE WILL NOT BE REFLECTED IN THIS DRAWING.
9. TREES DO NOT SHADE ANY ROOF UNLESS TREE HEIGHT IS SPECIFIED.
10. ALL DIMENSIONS REPRESENT THREE-DIMENSIONAL PATH PROJECTIONS OF WHICH THE ROOF'S PITCH CAN INFLUENCE THE ACCURACY OF THE MEASUREMENTS.



ELECTRICAL CERTIFICATION



PUBLIC STORAGE #28166 - 2400 PALMER DR
 PALMER DR
 2400 PALMER DR
 SCHAUMBURG, IL 60173-3818

DRAWN BY
 JM

CHECKED BY
 JR

DATE
 25-Jul-2024

DRAWING LEVEL
 ISSUED FOR PERMIT

DRAWING LEVEL

REV.	DATE
A	
B	
C	
D	
E	

SHEET SIZE
 36X24 SHOULD MEASURE 1":

SCALE
 1:450

SHEET TITLE

G10
 OVERALL SITE PLAN

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LEGEND

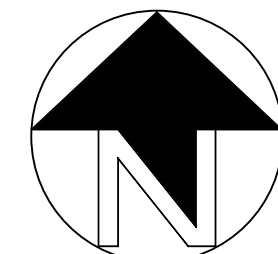
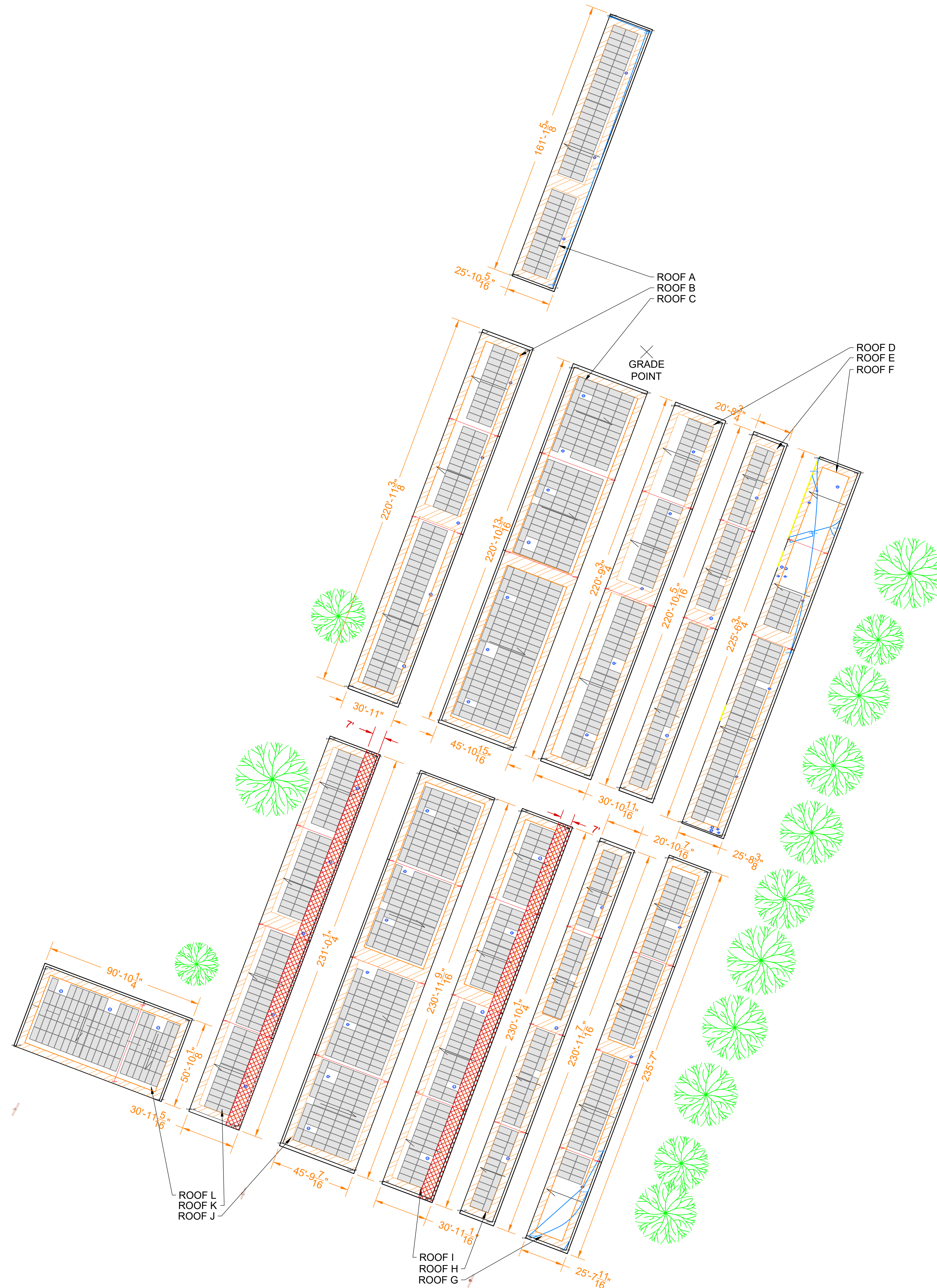
	DRAIN		ACCESS
	VENT		ELECTRICAL
	GAS		ROOF SEAM
	RTU		SATELLITE
	BOX		SKYLIGHT
	SHADOW		SUPPORT
	TREE		UNSURVEYED
	RIDGE		FIRE ACCESS PATH
	STRUCTURAL KEEPOUT		

PROJECT DETAILS

SYSTEM SIZE	774.88 KW DC
NUMBER OF MODULES	1336
MODULE MODEL	JINKO SOLAR-EAGLE 72 G6B JKM580N-72HL4-BDV (580W)
MODULE SIZE	89.69" X 44.65"
SITE SURVEY DATE	28-03-2024

ROOF DETAILS

ROOF #	PITCH	ARRAY AZIMUTH	MODULE TILT	MODULE COUNT	MATERIAL	HEIGHT ABOVE GRADE
A	2.5°	291°	FLUSH MOUNT	74	METAL	10'
B	2.3°	291°	FLUSH MOUNT	108	METAL	10'
C	2.4°	111°	FLUSH MOUNT	220	METAL	10'
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G	2.8°	291°	FLUSH MOUNT	89	METAL	10'
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I	2.4°	291°	FLUSH MOUNT	101	METAL	10'
J	2.4°	111°	FLUSH MOUNT	228	METAL	10'
K	2.4°	291°	FLUSH MOUNT	106	METAL	10'
L	2.4°	201°	FLUSH MOUNT	94	METAL	10'



ELECTRICAL CERTIFICATION



PUBLIC STORAGE #28166 - 2400 PALMER DR
2400 PALMER DR
SCHAUMBURG, IL 60173-3818

DRAWN BY JM

CHECKED BY JR

DATE 25-Jul-2024

DRAWING LEVEL ISSUED FOR PERMIT

DRAWING LEVEL					
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REV.	DATE				
A					
B					
C					
D					
E					

SHEET SIZE 36X24 SHOULD MEASURE 1":

SCALE 1:400

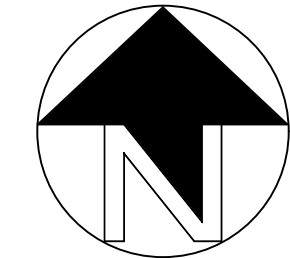
SHEET TITLE

G20

ARRAY PLAN

NOTES:

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ELECTRICAL CERTIFICATION



PUBLIC STORAGE #28166 - 2400 PALMER DR
2400 PALMER DR
SCHAUMBURG, IL 60173-3818

DRAWN BY JM

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DRAWING LEVEL ISSUED FOR PERMIT

DRAWING LEVEL

DATE

REV. A B C D E

SHEET SIZE 36X24 SHOULD MEASURE 1":

SCALE 1:400

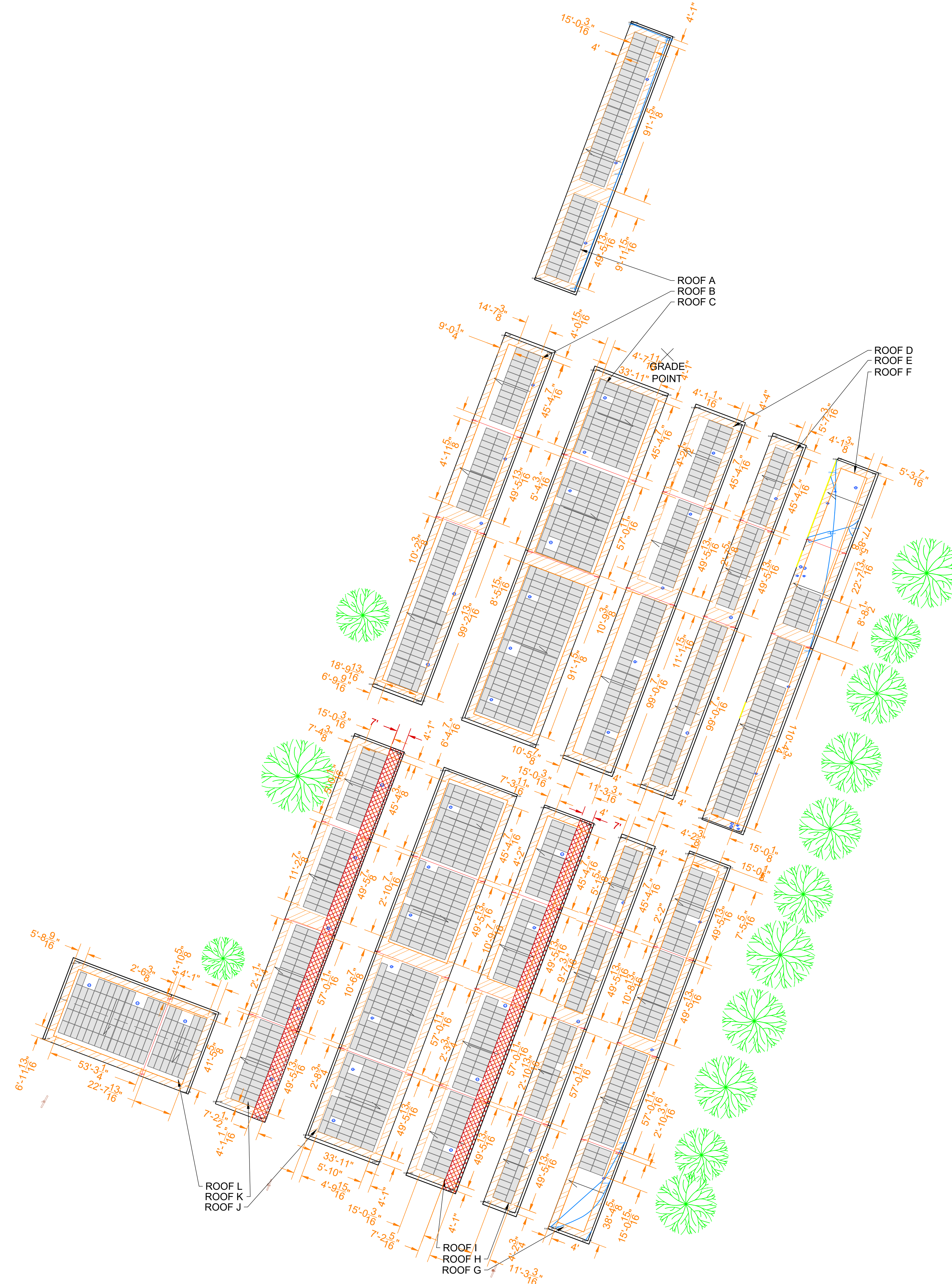
SHEET TITLE

G21
ARRAY DIMENSIONS

LEGEND			
	DRAIN		ACCESS
	VENT		ELECTRICAL
	GAS		ROOF SEAM
	RTU		SATELLITE
	BOX		SKYLIGHT
	SHADOW		SUPPORT
	TREE		UNSURVEYED
	RIDGE		FIRE ACCESS PATH
	STRUCTURAL KEEPOUT		

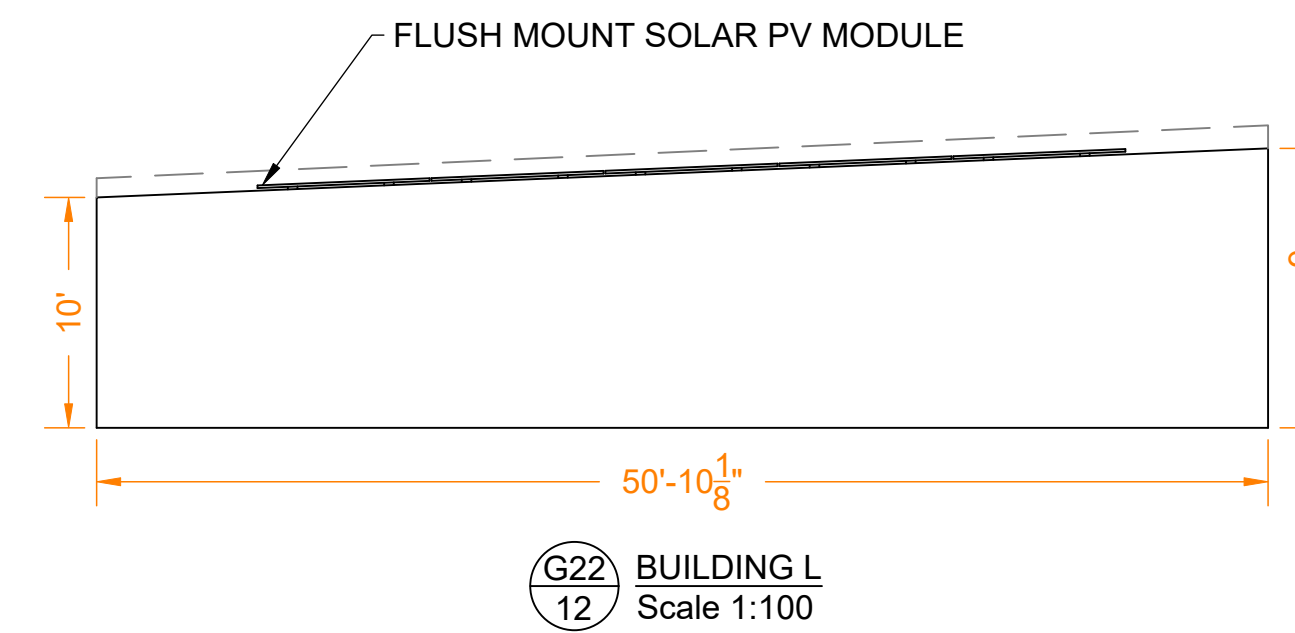
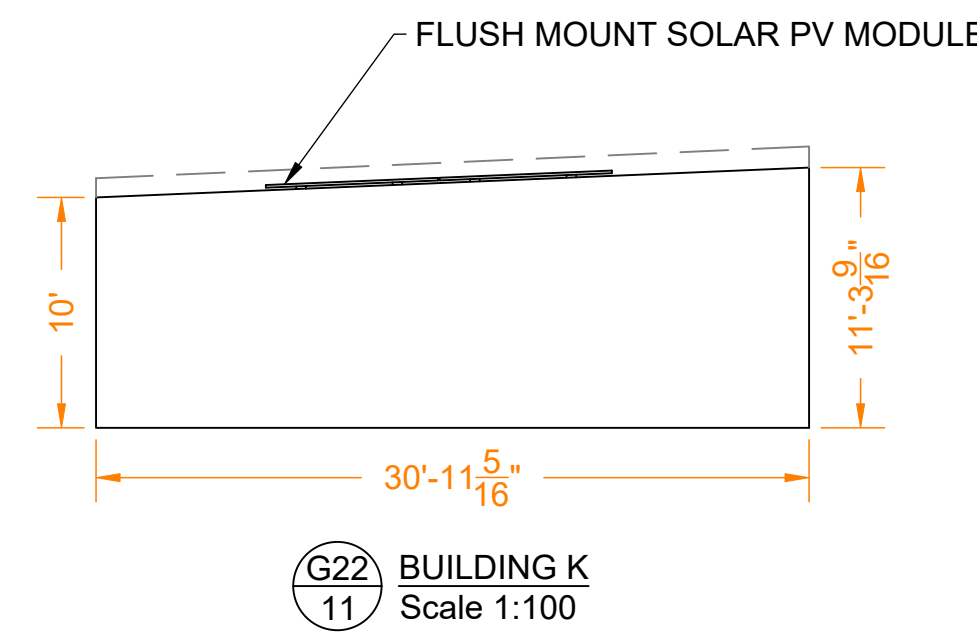
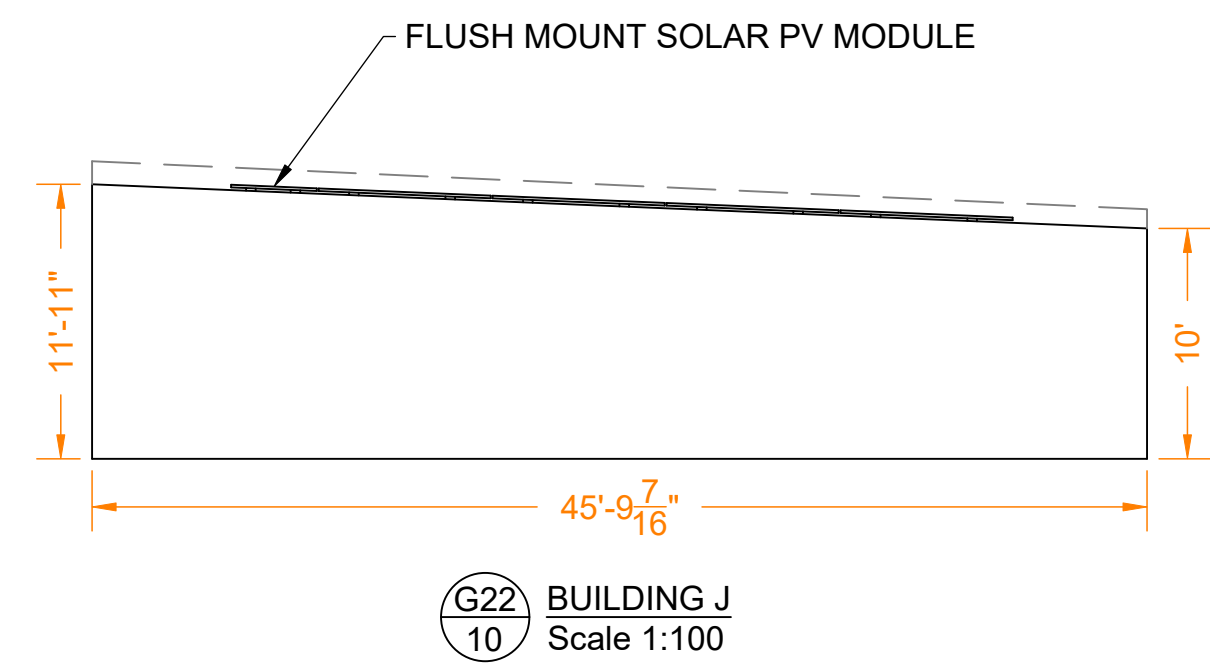
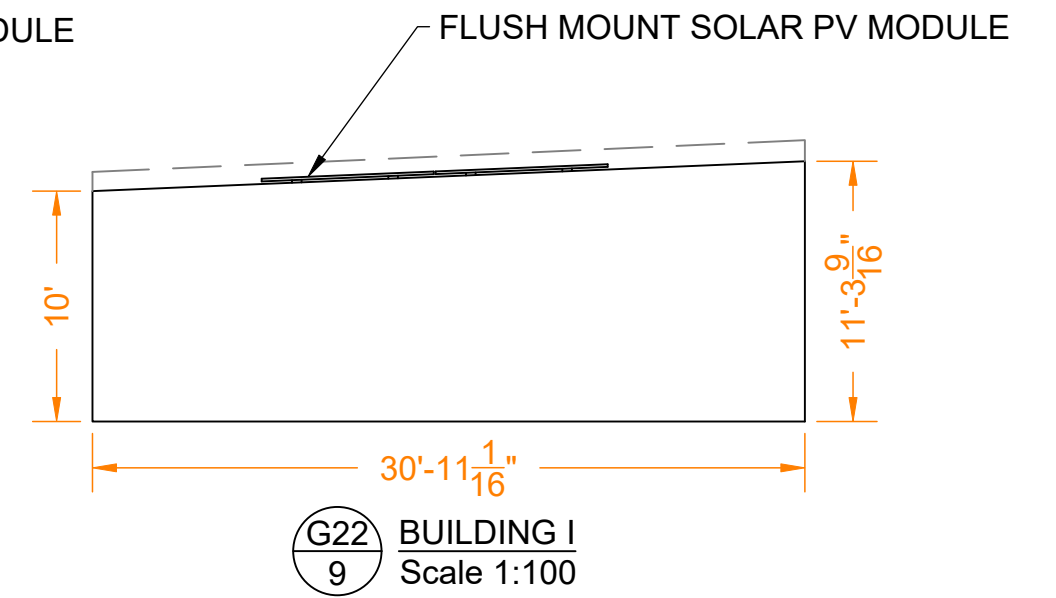
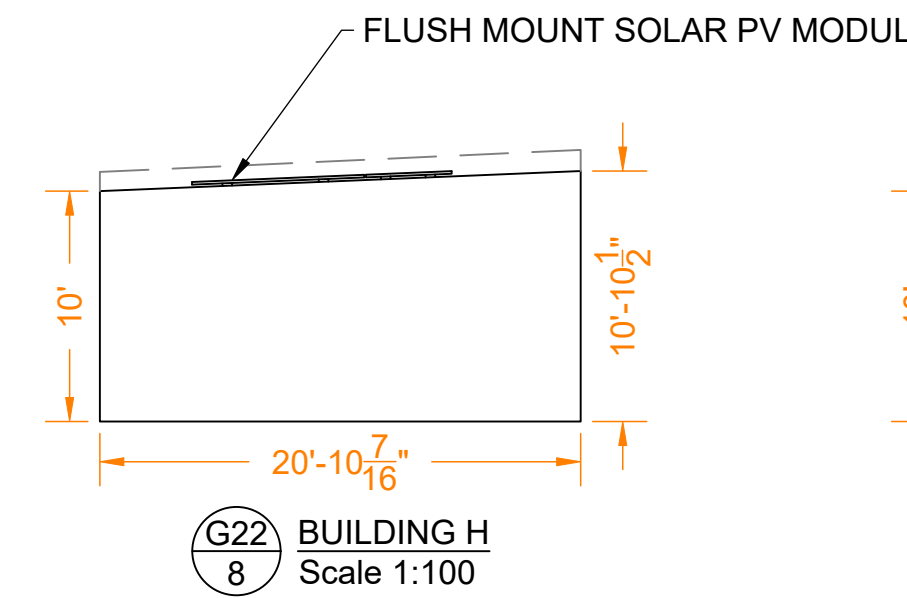
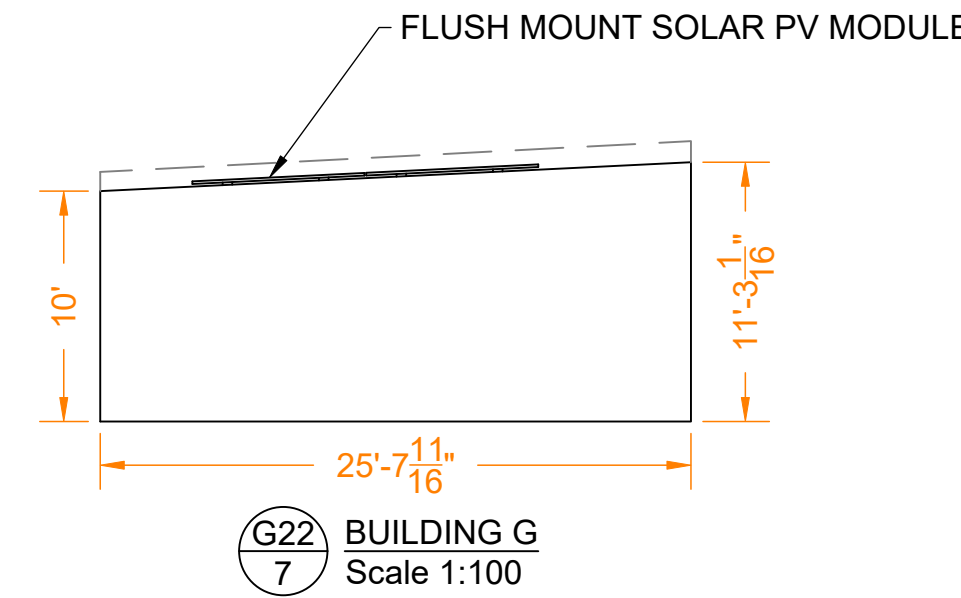
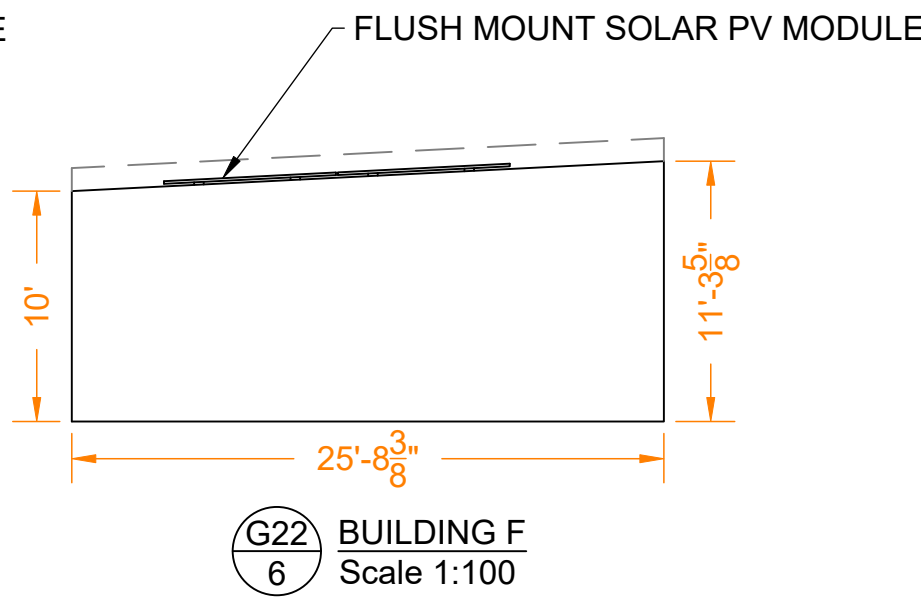
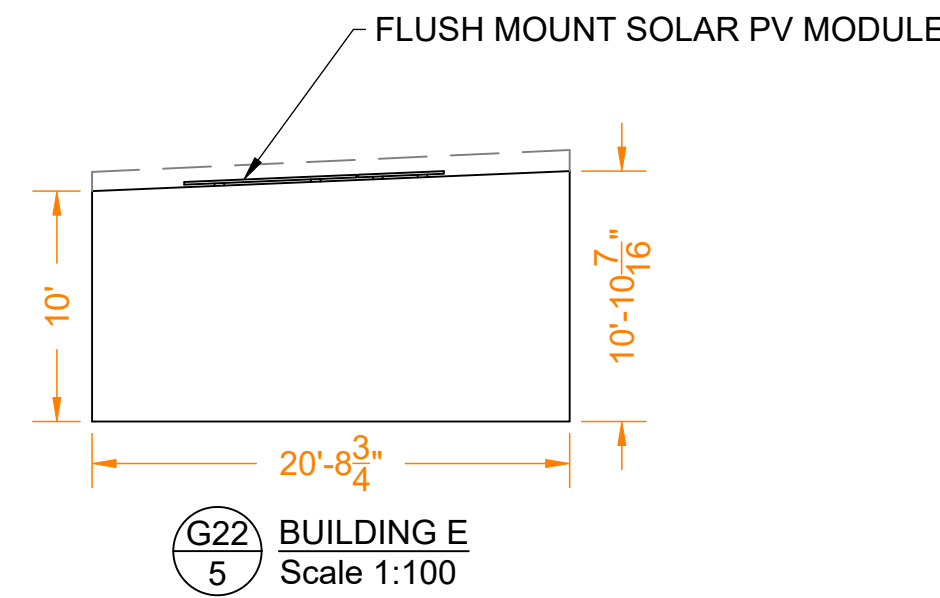
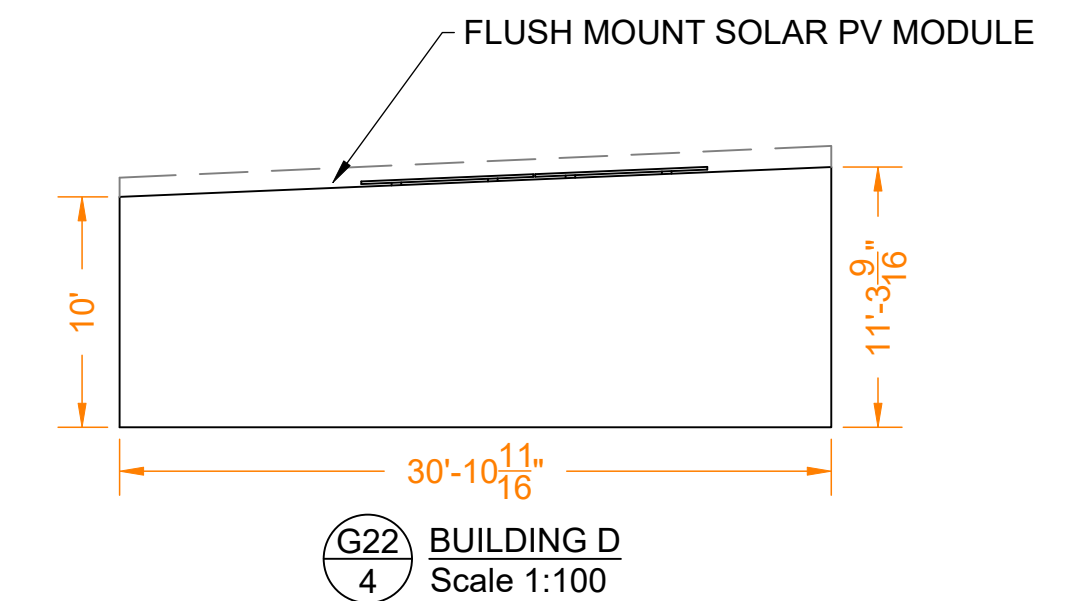
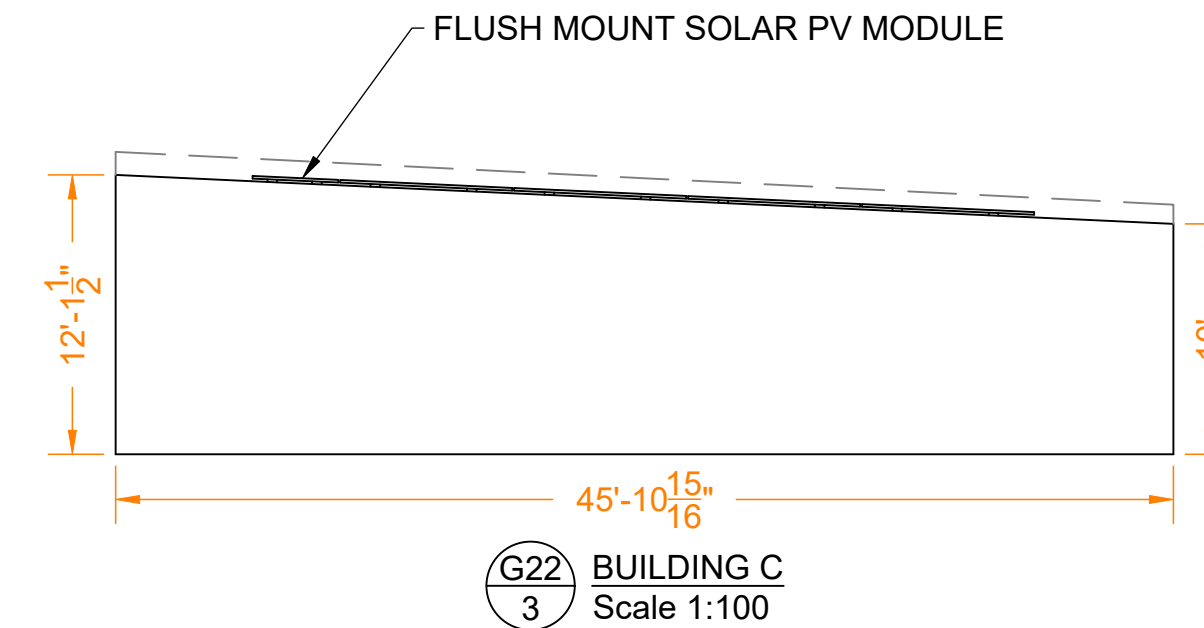
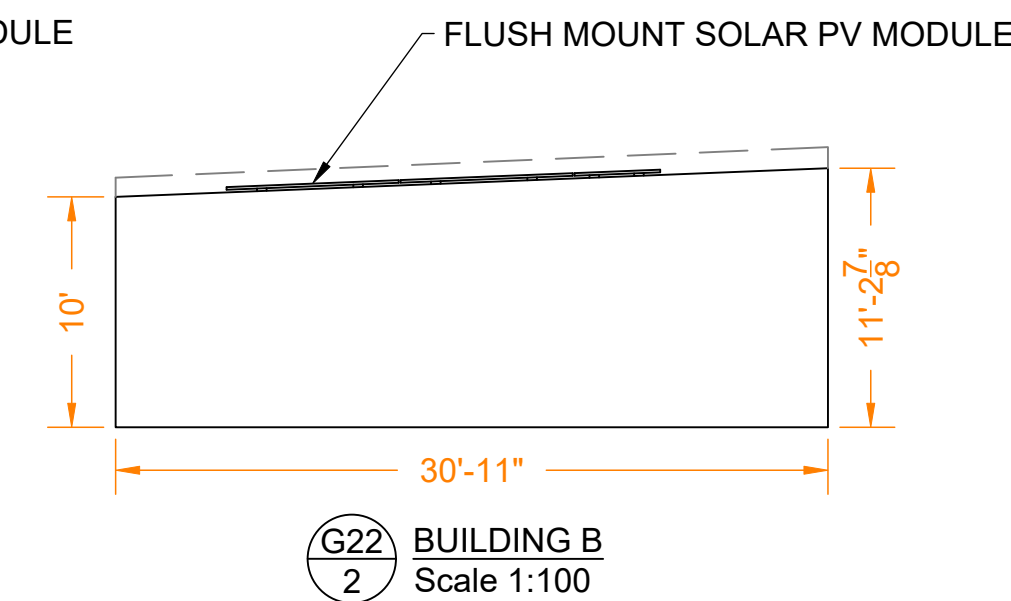
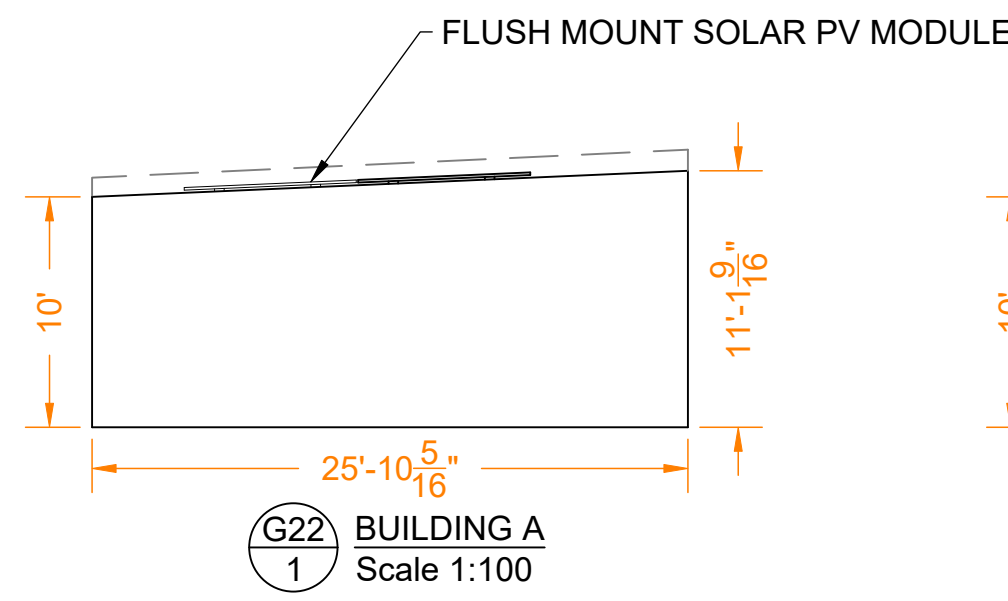
PROJECT DETAILS	
SYSTEM SIZE	774.88 KW DC
NUMBER OF MODULES	1336
MODULE MODEL	JINKO SOLAR-EAGLE 72 G6B JKM580N-72HL4-BDV (580W)
MODULE SIZE	89.69" X 44.65"
SITE SURVEY DATE	28-03-2024

ROOF DETAILS						
ROOF #	PITCH	ARRAY AZIMUTH	MODULE TILT	MODULE COUNT	MATERIAL	HEIGHT ABOVE GRADE
A	2.5°	291°	FLUSH MOUNT	74	METAL	10'
B	2.3°	291°	FLUSH MOUNT	108	METAL	10'
C	2.4°	111°	FLUSH MOUNT	220	METAL	10'
D	2.4°	291°	FLUSH MOUNT	97	METAL	10'
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LEGEND

	DRAIN		ACCESS
	VENT		ELECTRICAL
	GAS		ROOF SEAM
	RTU		SATELLITE
	BOX		SKYLIGHT
	SHADOW		SUPPORT
	TREE		UNSURVEYED
	RIDGE		FIRE ACCESS PATH
	STRUCTURAL KEEPOUT		

PROJECT DETAILS

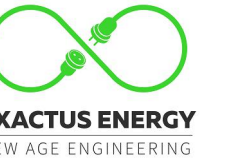
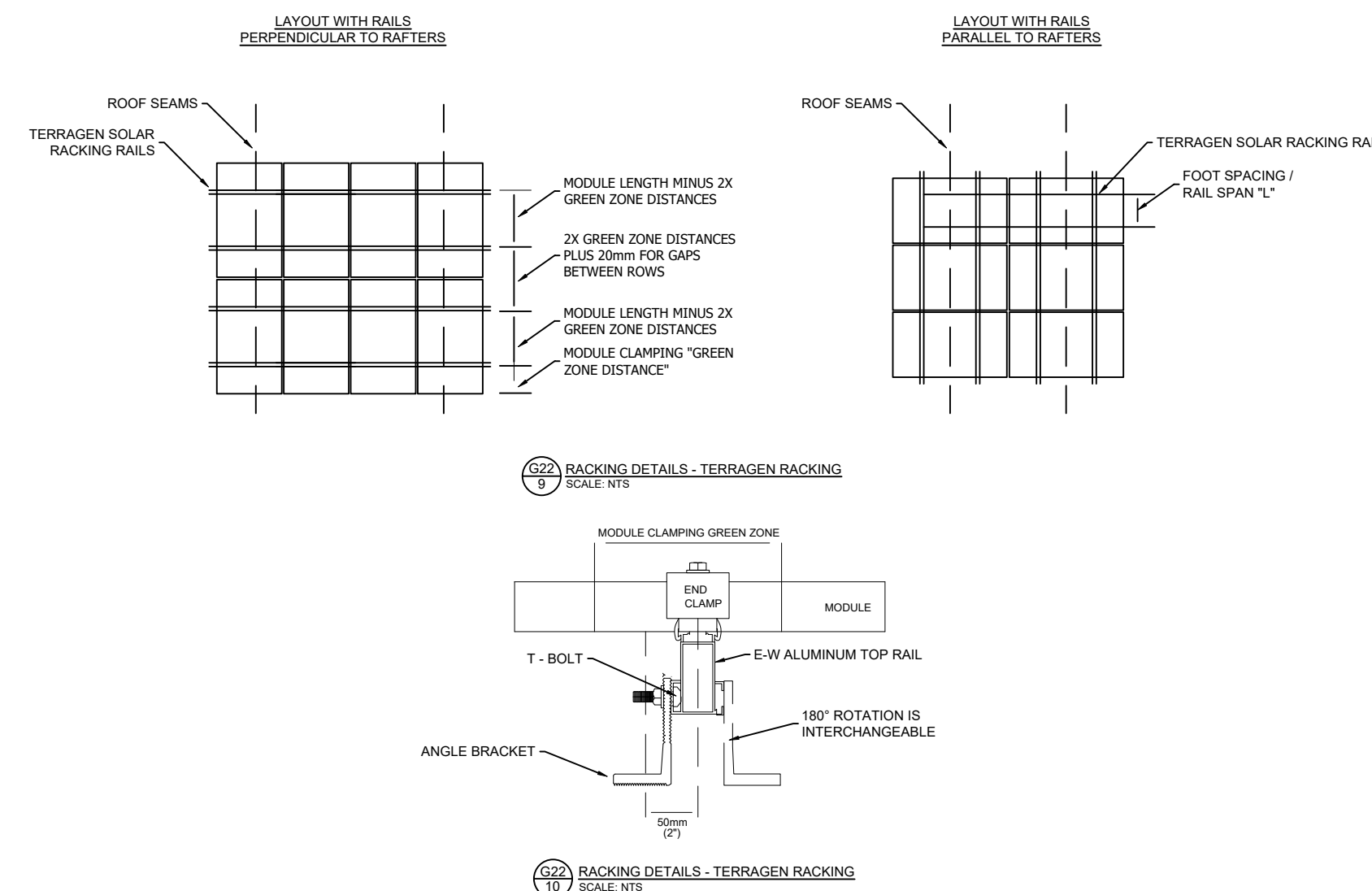
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L	2.4°	201°	FLUSH MOUNT	94	METAL	10'

NOTES:

- MODULES SHOULD BE POSITIONED SO THAT RAILS ARE FLUSH WITH EDGE OF MODULE OR EXTENDING NO MORE THAN 1/2" BEYOND EDGE OF MODULE. THE MODULES SHOULD NOT EXTEND PAST (OVERHANG) THE ENDS OF RAILS.
- MODULE GAP IS .79" (E-W) AND 1" FOR ROW SPACING (N-S).
- THERE IS .475" MODULE TO MODULE GAP FOR EVERY 12 MODULES MAXIMUM FOR THERMAL EXPANSION.



ELECTRICAL CERTIFICATION



PUBLIC STORAGE #28166 - 2400 PALMER DR
2400 PALMER DR
SCHAUMBURG, IL 60173-3818

DRAWN BY JM

CHECKED BY JR

DATE 25-Jul-2024

DRAWING LEVEL ISSUED FOR PERMIT

DRAWING LEVEL

DATE

REV.

SHEET SIZE 36X24 SHOULD MEASURE 1":

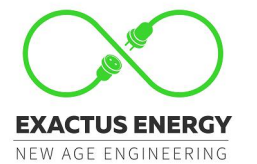
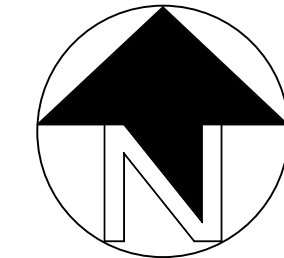
SCALE 1:100

SHEET TITLE

G22
BUILDING ELEVATIONS

NOTES:

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ELECTRICAL
CERTIFICATION



PUBLIC STORAGE #28166 - 2400
PALMER DR
2400 PALMER DR
SCHAUMBURG, IL 60173-3818

DRAWN BY
JM

CHECKED BY
JR

DATE
25-Jul-2024

DRAWING LEVEL
ISSUED FOR
PERMIT

DRAWING LEVEL

DATE

REV. A B C D E

SCALE
1:400

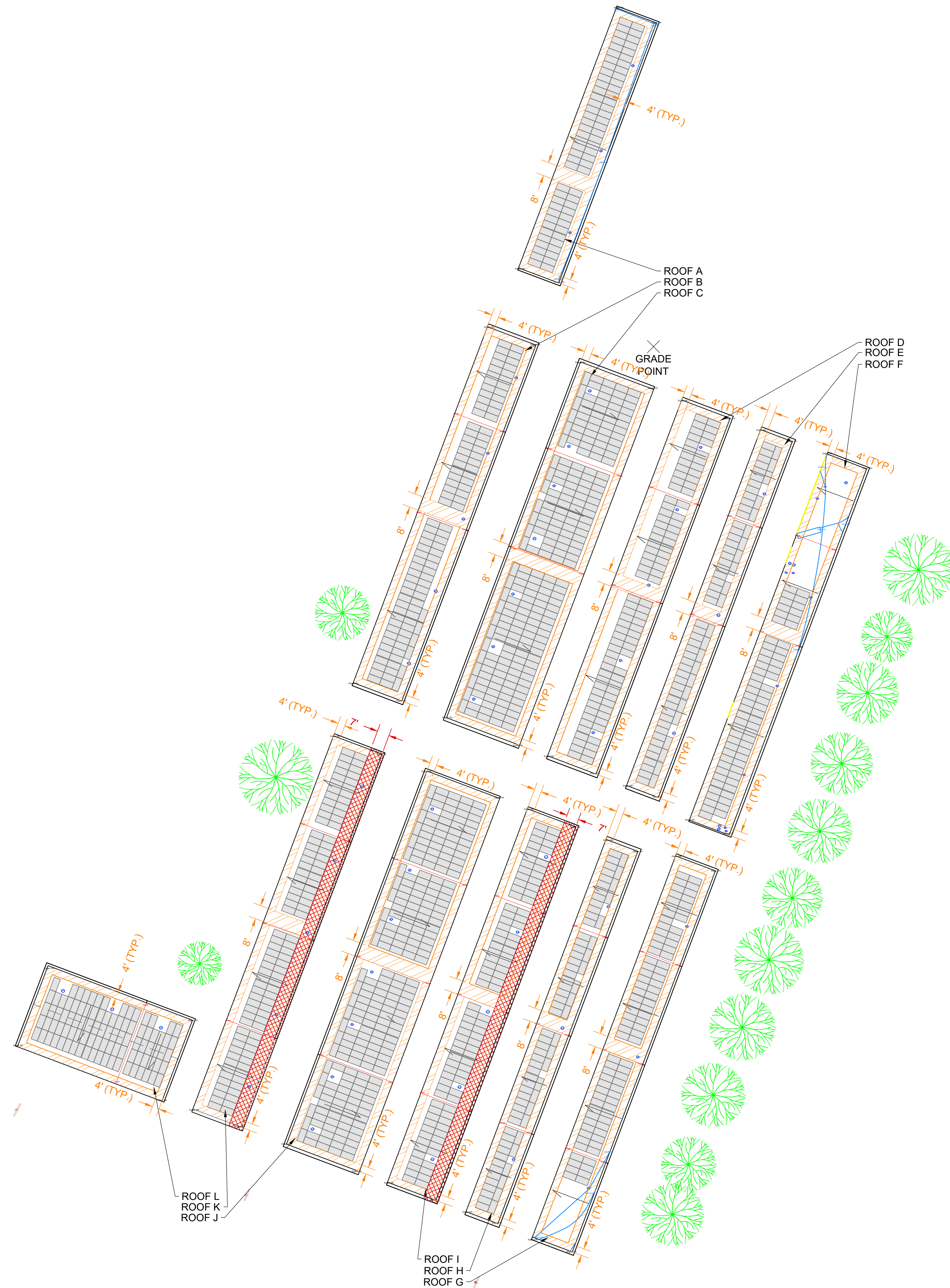
SHEET TITLE

G30
FIRE ACCESS
PLAN

LEGEND			
	DRAIN		ACCESS
	VENT		ELECTRICAL
	GAS		ROOF SEAM
	RTU		SATELLITE
	BOX		SKYLIGHT
	SHADOW		SUPPORT
	TREE		UNSURVEYED
	RIDGE		FIRE ACCESS PATH
	STRUCTURAL KEEPOUT		

PROJECT DETAILS	
SYSTEM SIZE	774.88 KW DC
NUMBER OF MODULES	1336
MODULE MODEL	JINKO SOLAR-EAGLE 72 G6B JKM580N-72HL4-BDV (580W)
MODULE SIZE	89.69" X 44.65"
SITE SURVEY DATE	28-03-2024

ROOF DETAILS						
ROOF #	PITCH	ARRAY AZIMUTH	MODULE TILT	MODULE COUNT	MATERIAL	HEIGHT ABOVE GRADE
A	2.5°	291°	FLUSH MOUNT	74	METAL	10'
B	2.3°	291°	FLUSH MOUNT	108	METAL	10'
C	2.4°	111°	FLUSH MOUNT	220	METAL	10'
D	2.4°	291°	FLUSH MOUNT	97	METAL	10'
E	2.4°	291°	FLUSH MOUNT	74	METAL	10'
F	2.9°	291°	FLUSH MOUNT	68	METAL	10'
G	2.8°	291°	FLUSH MOUNT	89	METAL	10'
H	2.4°	291°	FLUSH MOUNT	77	METAL	10'
I	2.4°	291°	FLUSH MOUNT	101	METAL	10'
J	2.4°	111°	FLUSH MOUNT	228	METAL	10'
K	2.4°	291°	FLUSH MOUNT	106	METAL	10'
L	2.4°	201°	FLUSH MOUNT	94	METAL	10'



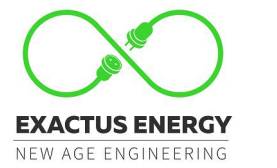
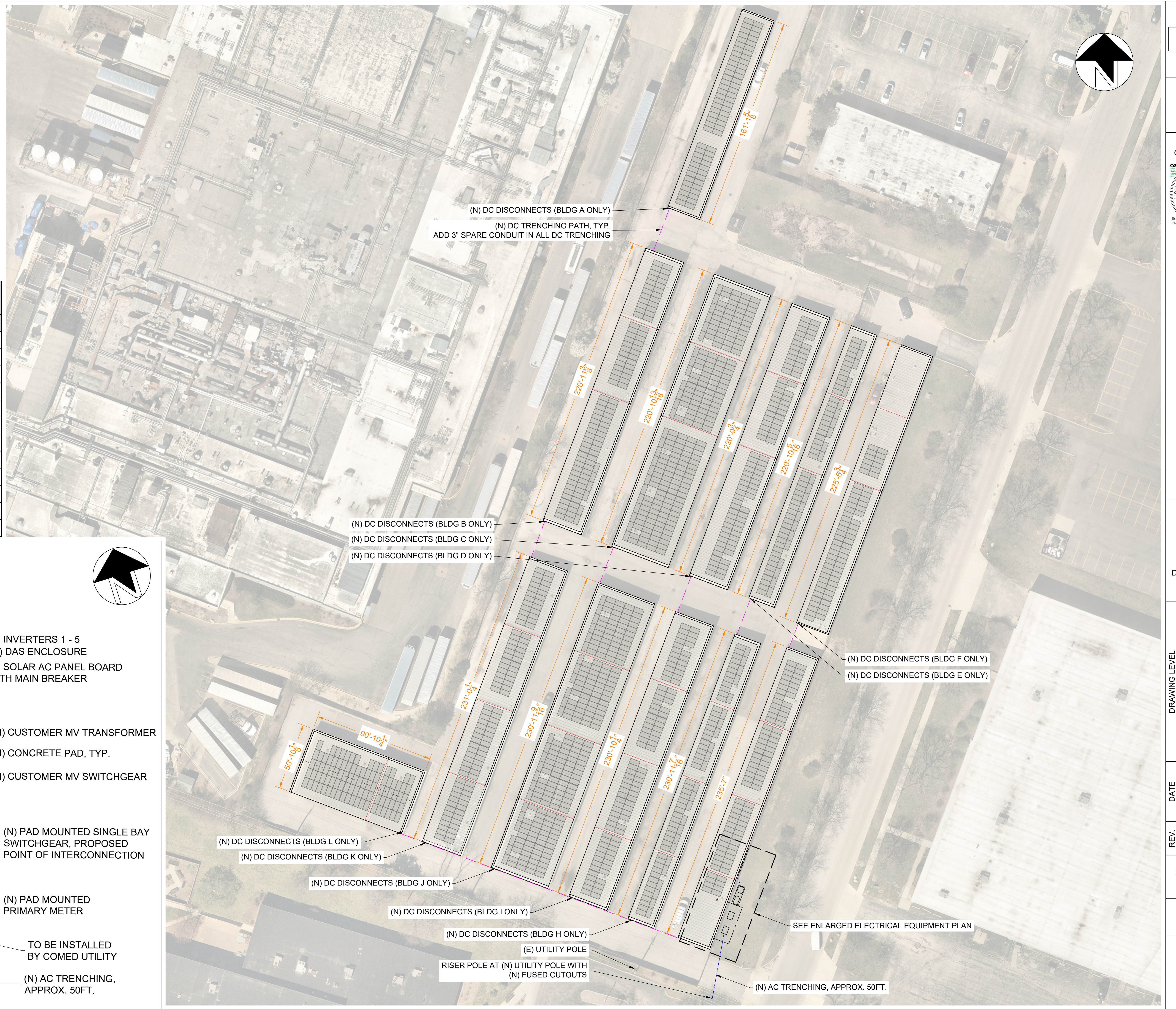
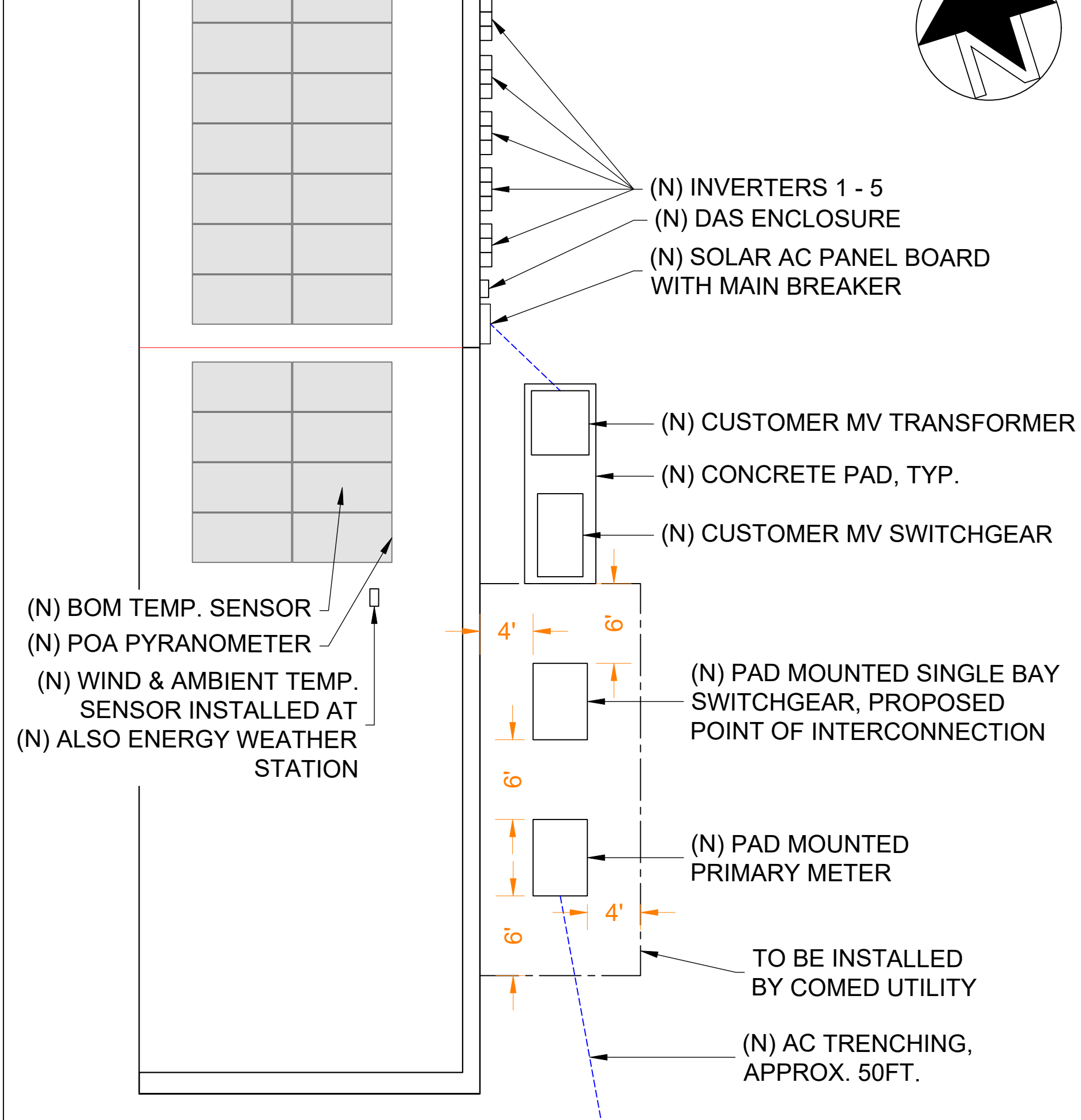
NOTES:

1. ALL DIMENSIONS TO BE FIELD VERIFIED. LOCATIONS SHOWN ARE APPROXIMATE.
2. ALL PV ELECTRICAL EQUIPMENT TO BE INSTALLED AS PER INSTALLATION MANUALS AND NEC REQUIREMENTS.
3. CARE SHALL BE TAKEN TO ENSURE CONDUITS AND RACEWAYS ARE ORIENTED TO MINIMIZE INTERFERENCE WITH FIRE ACCESS WALKWAYS.
4. EXACT LOCATION AND SPACING OF PHOTOVOLTAIC MODULES TO BE ESTABLISHED ACCORDING TO THE FINAL CONFIGURATION DETERMINED BY INSTALLER AND RACKING MANUFACTURER
5. PROPERTY LINE DETERMINED FROM PUBLICLY AVAILABLE GIS DATA.
6. THIS DRAWING PROVIDES AN OVERVIEW ONLY AND AS SUCH SHOULD NOT BE RELIED ON FOR EXACT DIMENSIONS.
7. MODULE LAYOUT IS SUBJECT TO CHANGE BASED ON AVAILABLE STRUCTURAL CAPACITY AND POWER GRID AVAILABILITY.
8. ROOF AND MODULE LAYOUTS ARE BASED ON INFORMATION COLLECTED DURING THE SITE SURVEY. ROOF ALTERATIONS MADE AFTER THE SURVEY DATE WILL NOT BE REFLECTED IN THIS DRAWING.
9. TREES DO NOT SHADE ANY ROOF UNLESS TREE HEIGHT IS SPECIFIED.
10. ALL DIMENSIONS REPRESENT THREE-DIMENSIONAL PATH PROJECTIONS OF WHICH THE ROOF'S PITCH CAN INFLUENCE THE ACCURACY OF THE MEASUREMENTS.

DC DISCONNECTS

BUILDING	QTY. & MODEL
A	1 x F4SK32-1-4XP
B	1 x F2SK32-1-4XP & 1 x F4SK32-1-4XP
C	2 x F4SK32-1-4XP
D	1 x F4SK32-1-4XP
E	1 x F4SK32-1-4XP
F	1 x F2SK32-1-4XP
G	5 x SE100K-US
H	1 x F2SK32-1-4XP & 1 x F4SK32-1-4XP
I	1 x F2SK32-1-4XP & 1 x F4SK32-1-4XP
J	4 x F4SK32-1-4XP
K	1 x F2SK32-1-4XP & 2 x F4SK32-1-4XP
L	1 x F4SK32-1-4XP

ENLARGED ELECTRICAL EQUIPMENT PLAN
SCALE: 1:100



ELECTRICAL CERTIFICATION



PUBLIC STORAGE #28166 - 2400 PALMER DR
2400 PALMER DR
SCHAUMBURG, IL 60173-3818

DRAWN BY
JM

CHECKED BY
JR

DATE
25-Jul-2024

DRAWING LEVEL
ISSUED FOR PERMIT

REV.	A	B	C	D	E
DATE					
DRAWING LEVEL					

REV.	A	B	C	D	E
DATE					

SHEET SIZE
36X24 SHOULD MEASURE 1":

SCALE
1:400

SHEET TITLE

E10
ELECTRICAL SITE PLAN