# PUBLIC STORAGE #07008 - 777 W WISE RD 777 W WISE RD, SCHAUMBURG, IL 60193 ROOFTOP PV SYSTEM - ISSUED FOR PERMIT

DEVELOPER INFORMATION					
DEVELOPER	SOLAR LANDSCAPE				
ADDRESS	601 BANGS AVE, UNIT 3				
MUNICIPALITY	ASBURY PARK, NJ 07712				
PHONE	(646) 419-2645				
EMAIL	LUCAS@SOLARLANDSCAPE.COM				

SYSTEM CHARACTERISTICS

MODULE INFORMATION

INVERTER INFORMATION

OPTIMIZER INFORMATION

500.00

1.55

JINKO

JKM580N-72HL4-BDV

14.37

13.62

51.47

42.59

-0.29

58.84

37.65

SOLAREDGE

SE100K-USx8lxxxx (480V)

1000

175000

SEE OPTIMIZER SPECS

100000

SOLAREDGE

S1201

1000

1200

12.5 - 125

DC SIZE (kW DC)

AC SIZE (kW AC)

DC/AC RATIO

MANUFACTURER

MODEL NUMBER(S)

PMAX @ STC (W)

ISC (A)

VOC (V)

TEMP COEFF OF VOC (%/°C)

TEMP COEFF OF PMAX (%/°C)

VOC @ MIN TEMP.

VMP @ MAX TEMP.

NUMBER OF MODULES

MANUFACTURER

MODEL NUMBER(S)

MAXIMUM DC INPUT VOLTAGE (V)

MAXIMUM DC INPUT POWER (W)

NOMINAL AC OUTPUT VOLTAGE (V)

MPPT OPERATING VOLTAGE RANGE (V)

NOMINAL AC POWER (W)

MAX CONTINUOUS OUTPUT CURRENT (A)

MANUFACTURER

MODEL NUMBER(S)

MODULES PER OPTIMIZER

MAXIMUM SYSTEM VOLTAGE (V)

RATED DC INPUT POWER (W)

MAX CONTINUOUS OUTPUT CURRENT (A)

MPPT VOLTAGE RANGE

NUMBER OF OPTIMIZERS

solarlandscape

# **ELECTRICAL CERTIFICATION** DAVID C. HERNANDEZ 062-068288 OF ILLINOIS

# STORAGE #07008 -777 W WISE F SCHAUMBURG, IL

# DRAWN BY

**CHECKED BY** 

01-Aug-2024

DRAWING LEVEL ISSUED FOR PERMIT

DRAWING	ISSUED FOR	ISSUED FOR		
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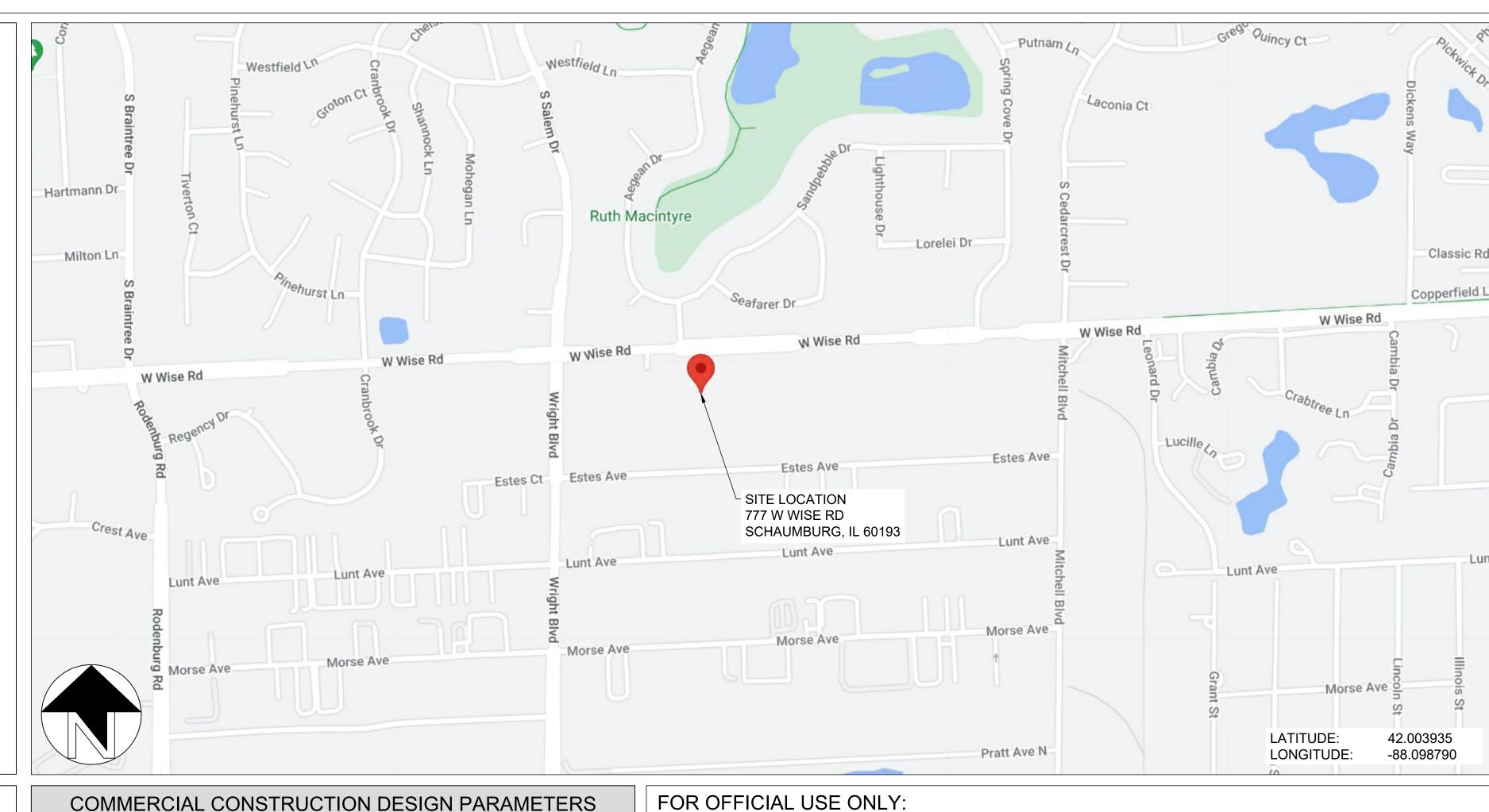
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	SH	IEE.	T SI	ZE	
36X24 SHOULD					

MEASURE 1":

SCALE

SHEET TITLE

G01 TITLE SHEET



# PROJECT NOTES:

DRAWING INDEX

G10 - OVERALL SITE PLAN

G21 - ARRAY DIMENSIONS

G30 - FIRE ACCESS PLAN

E01 - ELECTRICAL NOTES

E20 - DC STRINGING PLAN

E30 - LINE DIAGRAM

E50 - LABELING

E10 - ELECTRICAL SITE PLAN

E31 - AC & DC CALCULATIONS

E32 - AC & DC CALCULATIONS

E33 - AC & DC CALCULATIONS

E40 - ELECTRICAL DETAILS

E60 - GROUNDING DETAILS

E70 - EQUIPMENT SPECS

E71 - EQUIPMENT SPECS

E11 - EQUIPMENT PLANS / ELEVATION

G22 - BUILDING ELEVATION

G01 - TITLE SHEET

G20 - ARRAY PLAN

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

# COMMERCIAL CONSTRUCTION DESIGN PARAMETERS

-20.4°C LOW TEMPERATURE:

HIGH TEMPERATURE:

### APPLICABLE CODES

NATIONAL ELECTRICAL CODE - NFPA 70 2020 (NEC)

STANDARD FOR ELECTRICAL SAFETY IN THE WORKFORCE - NFPA 70E 2018

INTERNATIONAL ELEC

UL 1703 - SOLAR MODI

UL 2703 - RACKING RAILS, MOUNTS AND CLAMPS FOR PV MODULES

### 31.3°C

CTRICAL TESTING ASSOCIATION - ANSI/NETA STANDARD
DULES
COMPINED POVES (III 17/18P WHERE ARRIVARIE)

. 1741 - INVERTERS,	COMBINER BOXES	(UL1741SB V	VHERE APPLI	CABLE)

2021 INTERNATIONAL BUILDING CODE (IBC)

2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)

2021 INTERNATIONAL FIRE CODE (IFC)

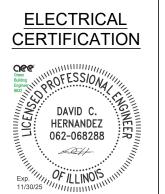
	EXISTING BUILDING	PROPOSED ALTER
IBC OCCUPANCY CLASSIFICATION	STORAGE S2	STORAGE S2
NFPA 101 CLASSIFICATION	STORAGE	STORAGE
TYPE OF CONSTRUCTION	TYPE 1 & 2	TYPE 1 & 2
NUMBER OF STORIES ABOVE GRADE	2	2
HIGH RISE (Y / N)	N	N
COVERED MALL (Y / N)	N	N
FULLY SPRINKLERED (Y / N)	N	N
FIRE ALARM (Y / N)	Υ	Y
FLOOR AREA OF RENOVATION	NA	ROOFTOP SOLAR - 42,000 SQ. FT.

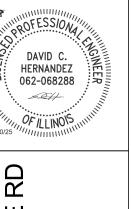
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- 3. CARE SHALL BE TAKEN TO ENSURE CONDUITS AND RACEWAYS ARE ORIENTED TO MINIMIZE INTERFERENCE WITH FIRE ACCESS WALKWAYS.
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- 9. TREES DO NOT SHADE ANY ROOF UNLESS TREE HEIGHT IS SPECIFIED.
- 10. ALL DIMENSIONS REPRESENT THREE-DIMENSIONAL PATH PROJECTIONS OF WHICH THE ROOF'S PITCH CAN INFLUENCE THE ACCURACY OF THE MEASUREMENTS.











STORAGE #07008 -777 W WISE F SCHAUMBURG, II

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DATE

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01-<del>Aug-2</del>024

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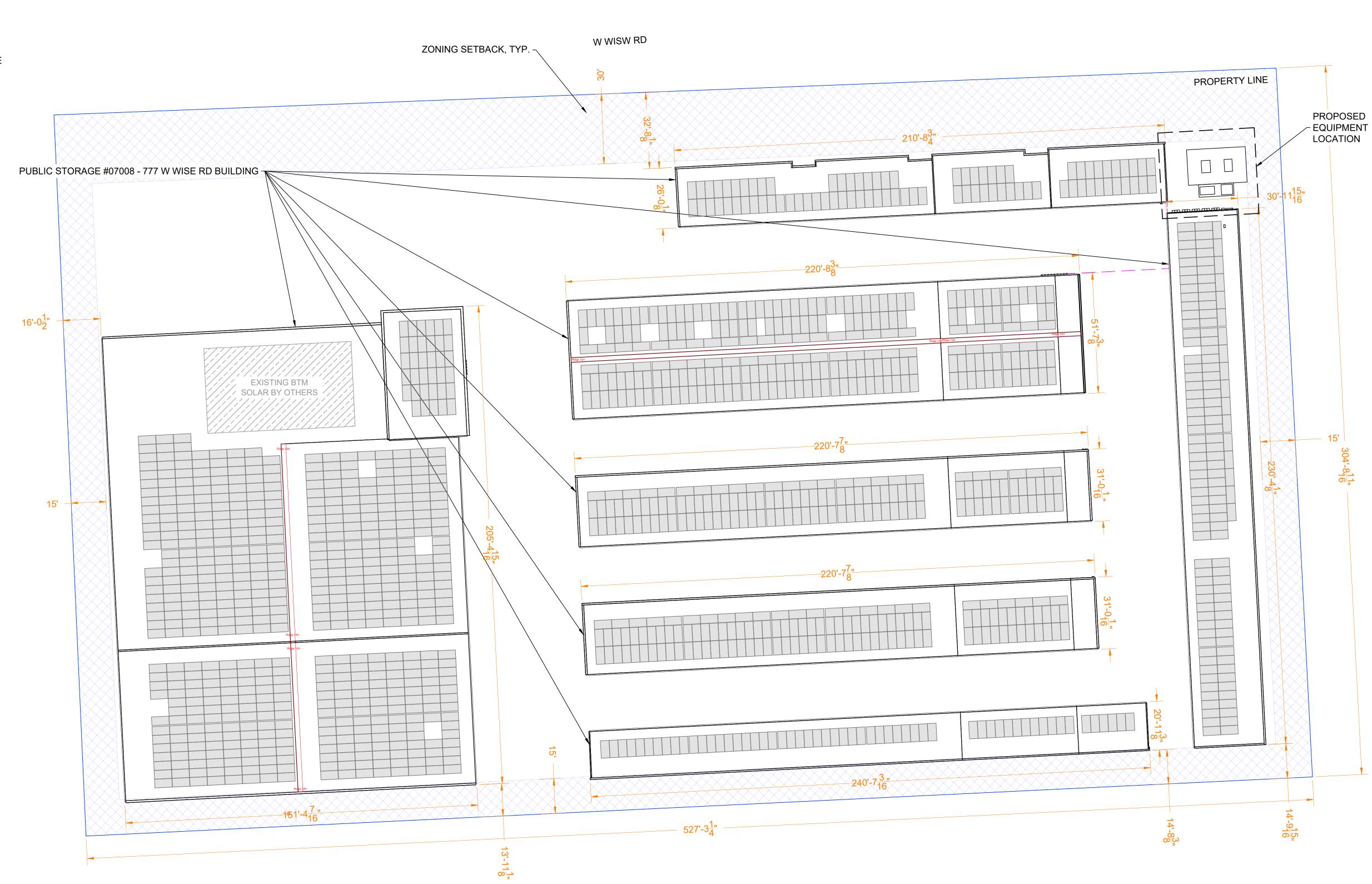
DRAWING LEVEL	ISSUED FOR PERMIT	ISSUED FOR PERMIT		
DATE	09-JUL-2024	01-AUG-2024		

SHEET SIZE 36X24 SHOULD MEASURE 1": 

> SCALE 1:275

SHEET TITLE

G10 OVERALL SITE PLAN

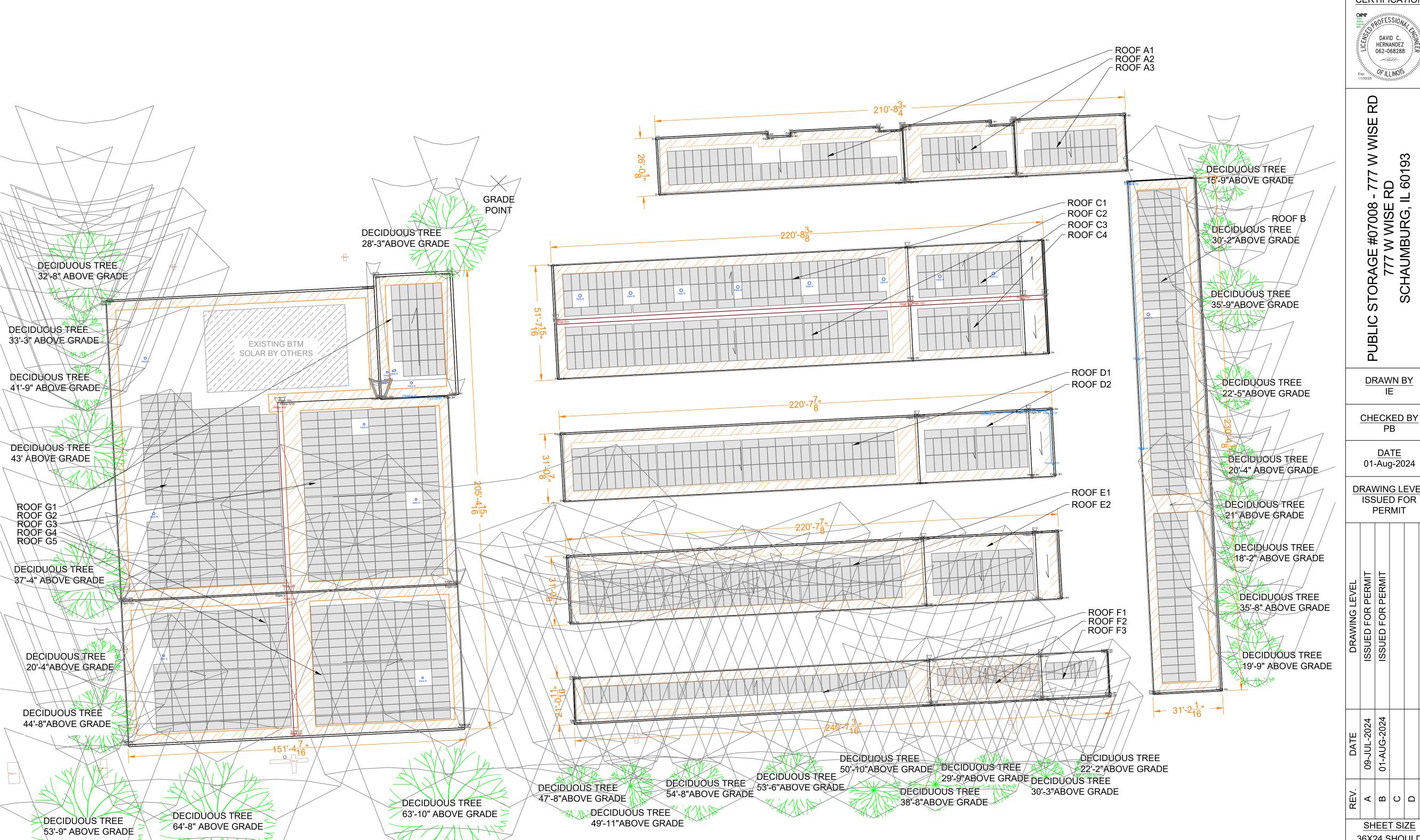


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	LEGEND						
	DRAIN		ACCESS				
	VENT		ELECTRICAL				
	GAS		ROOF SEAM				
	RTU	0	SATELLITE				
	BOX		SKYLIGHT				
	SHADOW		SUPPORT				
**	TREE		UNSURVEYED				
	RIDGE		FIRE ACCESS PATH				
	STRUCTURAL KEEPOUT						

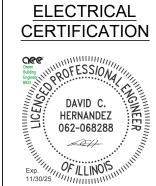
PROJECT DETAILS				
SYSTEM SIZE	774.88 KW DC			
NUMBER OF MODULES	1336			
MODULE MODEL	JINKO-JKM580N-72HL4-BDV (580W)			
MODULE SIZE	89.69" X 44.65"			
SITE SURVEY DATE	27-MAR-2024			

		RO	OOF D	<b>ETAIL</b>	S	
ROOF #	PITCH	ARRAY AZIMUTH	MODULE TILT	MODULE COUNT	MATERIAL	HEIGH ABOVE GRADE
A1	1.6°	177°	FLUSH MOUNT	45	METAL	10' - 9"
A2	1.3°	177°	FLUSH MOUNT	17	METAL	10' - 9'
A3	1.6°	177°	FLUSH MOUNT	21	METAL	10' - 9'
В	1.5°	177°	FLUSH MOUNT	128	METAL	10' - 9'
C1	1.4°	357°	FLUSH MOUNT	85	METAL	9' - 5"
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G1	2°	357°	FLUSH MOUNT	35	METAL	17' - 11
G2	2.4°	267°	FLUSH MOUNT	171	METAL	10' - 9"
G3	2.4°	87°	FLUSH MOUNT	156	METAL	10' - 9'
G4	2.4°	267°	FLUSH MOUNT	110	METAL	10' - 9'
G5	2.4°	87°	FLUSH MOUNT	110	METAL	10' - 9'









STORAGE #07008 -777 W WISE F SCHAUMBURG, IL

DRAWN BY

DATE

01-Aug-2024 DRAWING LEVEL

ISSUED FOR PERMIT

DRAWING LEVEL	ISSUED FOR PERMIT	ISSUED FOR PERMIT			
DATE	09-JUL-2024	01-AUG-2024			
REV.	A	В	С	O	Ш
SHEET SIZE 36X24 SHOULD MEASURE 1":					

SHEET TITLE

<u>SCALE</u> 1:275

G20

ARRAY PLAN

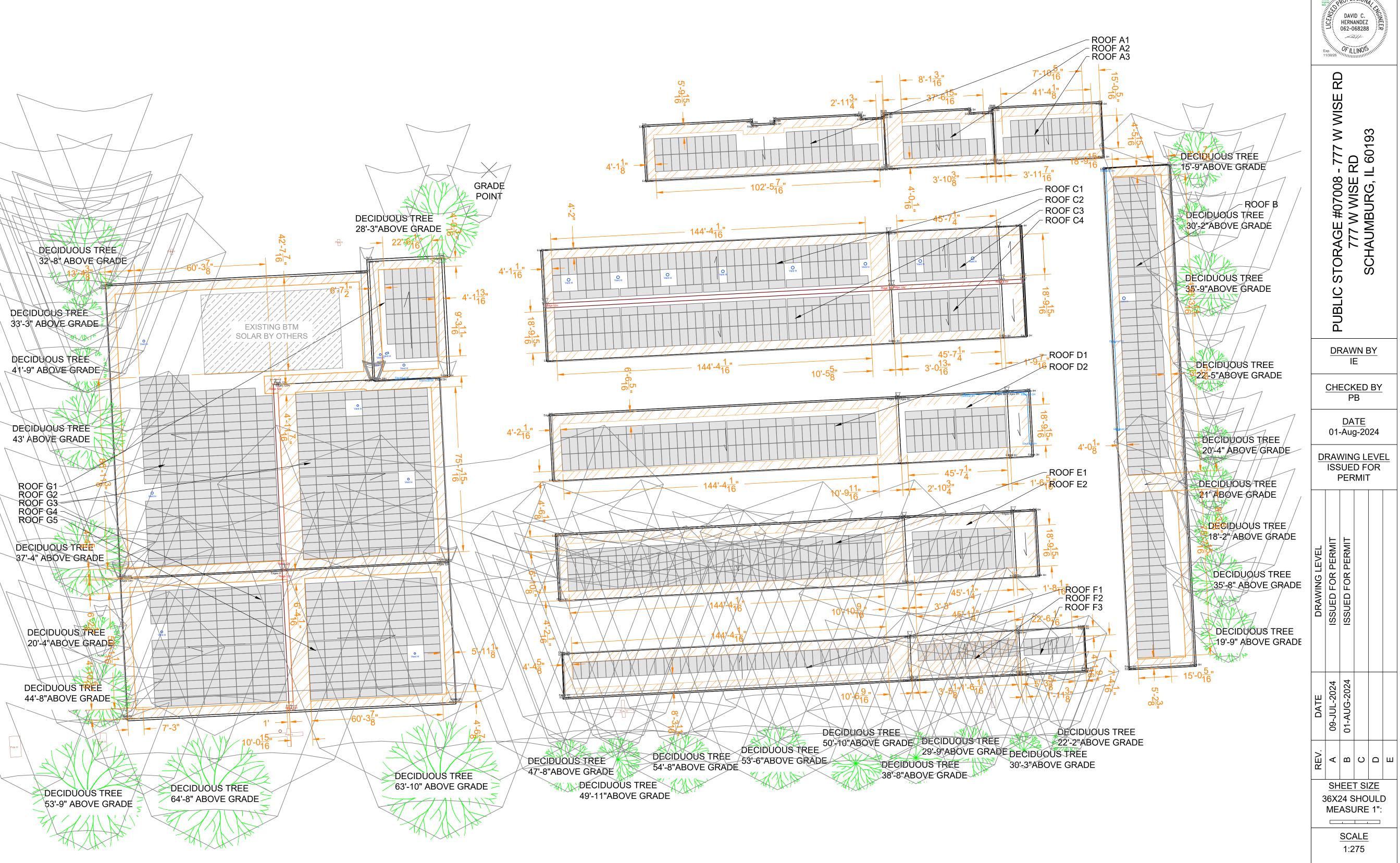
ACCESS WALKWAYS.

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

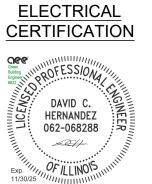
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SITE SURVEY DATE	27-MAR-2024			

		RO	OOF D	<b>ETAIL</b>	_S	
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- 777 W RD IL 60193

STORAGE #07008 -777 W WISE F SCHAUMBURG, IL ORAGE:

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DRAWING LEVEL	ISSUED FOR PERMIT	ISSUED FOR PERMIT		
DAIE	09-JUL-2024	01-AUG-2024		

SHEET SIZE 36X24 SHOULD MEASURE 1": 

> SCALE 1:275

G21

SHEET TITLE

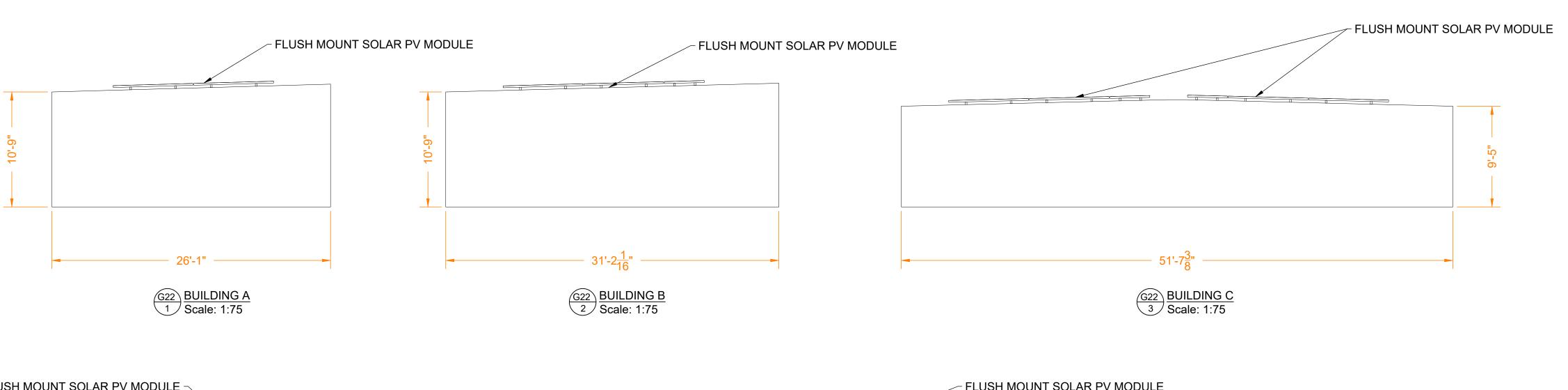
ARRAY **DIMENSIONS** 

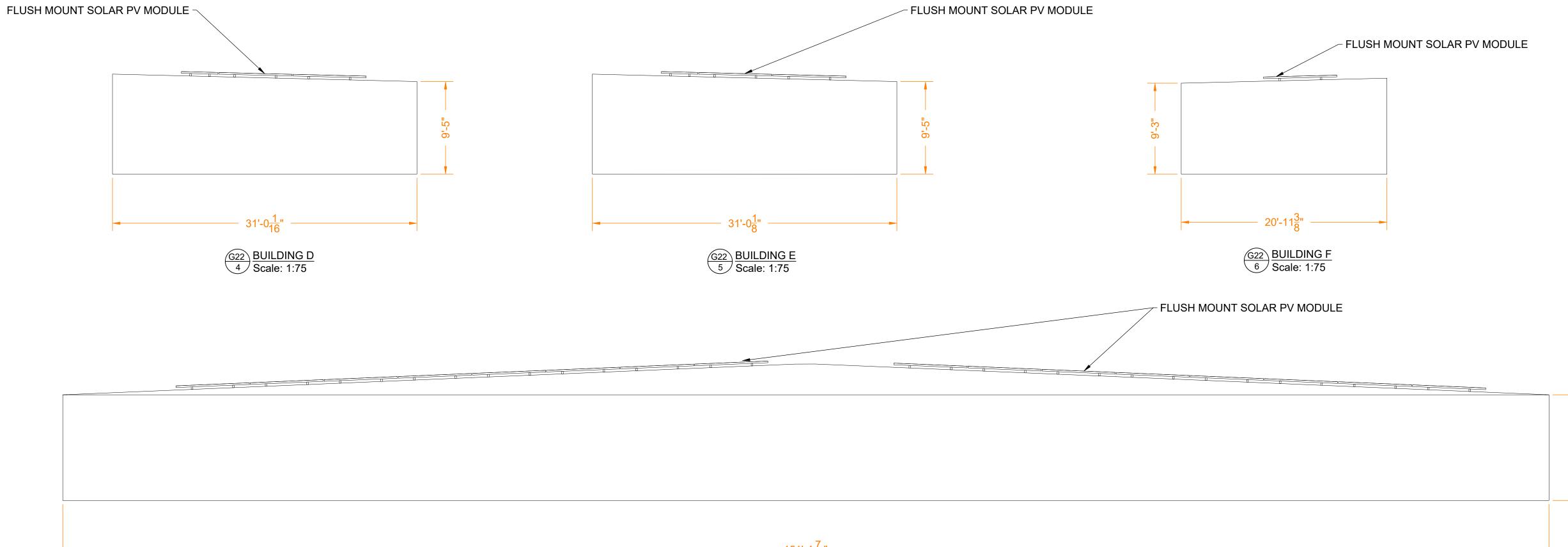
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	LEGEND							
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	VENT		ELECTRICAL					
	GAS RTU		ROOF SEAM					
			SATELLITE					
	BOX		SKYLIGHT					
V	SHADOW		SUPPORT					
**	* TREE		UNSURVEYED					
— RIDGE			FIRE ACCESS PATH					
	STRUCTURAL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

PROJECT DETAILS				
SYSTEM SIZE 774.88 KW DC				
NUMBER OF MODULES	1336			
MODULE MODEL	JINKO-JKM580N-72HL4-BDV (580W)			
MODULE SIZE	89.69" X 44.65"			
SITE SURVEY DATE	27-MAR-2024			

		RC	OF D	ETAIL	.S	
ROOF #	PITCH	ARRAY AZIMUTH	MODULE TILT	MODULE COUNT	MATERIAL	HEIGHT ABOVE GRADE
A1	1.6°	177°	FLUSH MOUNT	45	METAL	10' - 9"
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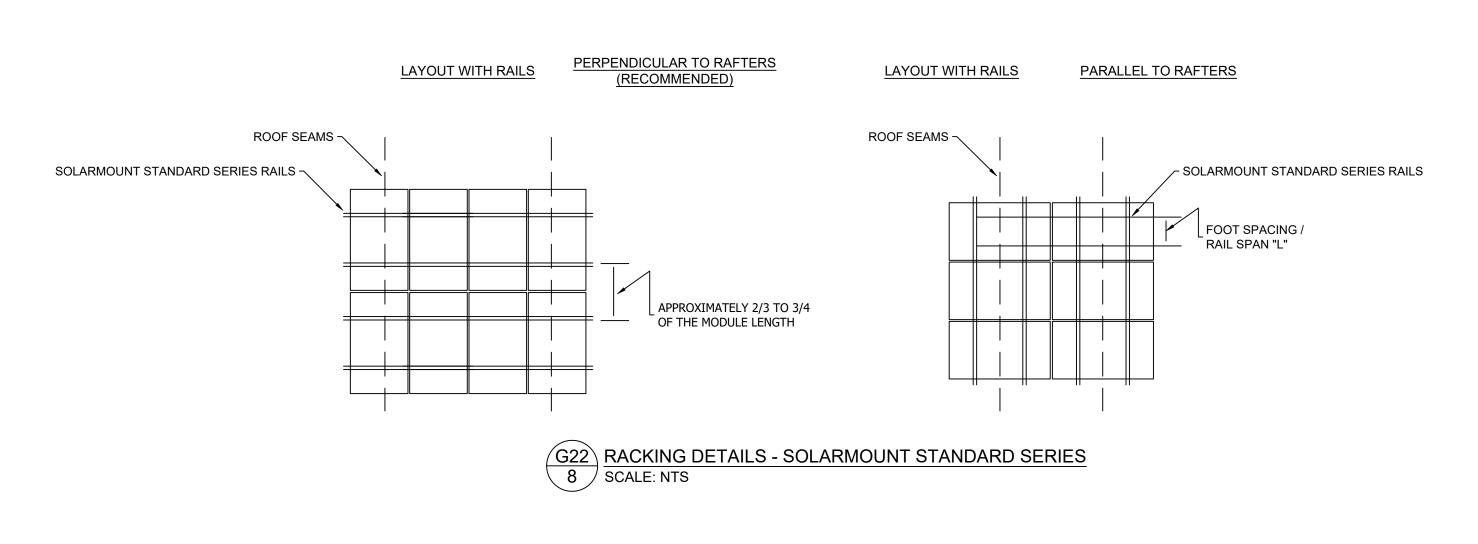
NOTES:

1. MODULES SHOULD BE POSITIONED SO THAT RAILS ARE FLUSH WITH EDGE OF MODULE OR EXTENDING NO MORE THAN 1/2" BEYOND EDGE OF

G22 7 BUILDING G 7 Scale: 1:75

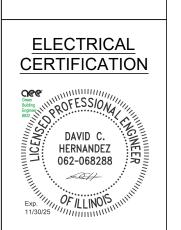
MODULE. THE MODULES SHOULD NOT EXTEND PAST (OVERHANG) THE ENDS OF RAILS.

MODULE GAP IS 1/2" (E-W) AND 1" FOR ROW SPACING (N-S).
 THERE IS 6" MODULE TO MODULE GAP FOR EVERY 12 MODULES MAXIMUM FOR THERMAL EXPANSION.









PUBLIC STORAGE #07008 - 777 W WISE RE 777 W WISE RD SCHAUMBURG, IL 60193

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REV.	٨	В	S	D	Ш
	SH	EE.	T SI	ZE	

MEASURE 1":

SCALE

1:75

36X24 SHOULD

SHEET TITLE

BUILDING ELEVATION

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	LEGEND						
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	VENT		ELECTRICAL				
	GAS		ROOF SEAM				
	RTU	0	SATELLITE				
	BOX		SKYLIGHT				
V	SHADOW		SUPPORT				
*	TREE		UNSURVEYED				
	RIDGE		FIRE ACCESS PATH				
	STRUCTURAL KEEPOUT						

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D1	1.4°	177°	FLUSH MOUNT	95	METAL	9' - 5"
D2	1.4°	177°	FLUSH MOUNT	30	METAL	9' - 5"
E1	1.3°	177°	FLUSH MOUNT	95	METAL	9' - 5"
E2	1.3°	177°	FLUSH MOUNT	30	METAL	9' - 5"
F1	1.5°	357°	FLUSH MOUNT	38	METAL	9' - 3"
F2	1.5°	357°	FLUSH MOUNT	12	METAL	9' - 3"
F3	1.5°	357°	FLUSH MOUNT	6	METAL	9' - 3"
G1	2°	357°	FLUSH MOUNT	35	METAL	17' - 11"
G2	2.4°	267°	FLUSH MOUNT	171	METAL	10' - 9"
G3	2.4°	87°	FLUSH MOUNT	156	METAL	10' - 9"
G4	2.4°	267°	FLUSH MOUNT	110	METAL	10' - 9"
G5	2.4°	87°	FLUSH MOUNT	110	METAL	10' - 9"

SUMMARY OF CODES APPLIED					
CODE	DESCRIPTION				
2021 IFC SECTION 1205.3.1 EXCEPTION	BUILDINGS WHERE EITHER AXIS IS LESS THAN 250' ARE PERMITTED TO USE 4' PERIMETER FIRE ACCESS PATHWAYS.				
2021 IFC SECTION 1205.3.2.1	INTERIOR PATHWAYS SHOULD BE PROVIDED BETWEEN ARRAYSECTIONS AT INTERVALS NOT GREATER THAN 150' THROUGHOUT THE LENGTH AND WIDTH OF THE ROOF.				
2021 IFC SECTION 1205.3.3.3.1	8' SMOKE VENTILATION PATHWAYS ARE PROVIDED BETWEEN ARRAY SECTIONS				

DECIDUOUS TREE 32'-8" ABOVE GRADE

DECIDUOUS TREE

DECIDUOUS TREE

DECIDUOUS TREE

ROOF G1-ROOF G2-

ROOF G3 -ROOF G4 -ROOF G5 -

DECIDUOUS TREE 37'-4" ABOVE GRADE

DECIDUOUS TREE

DECIDUOUS TREE 44'-8"ABOVE GRADE

DECIDUOUS TREE

53'-9" ABOVE GRADE

20'-4"ABOVE GRADE

41'-9" ABOVE GRADE

33'-3" ABOVE GRADE

GRADE

POINT

DECIDUOUS TREE

EXISTING BTM SOLAR BY OTHERS

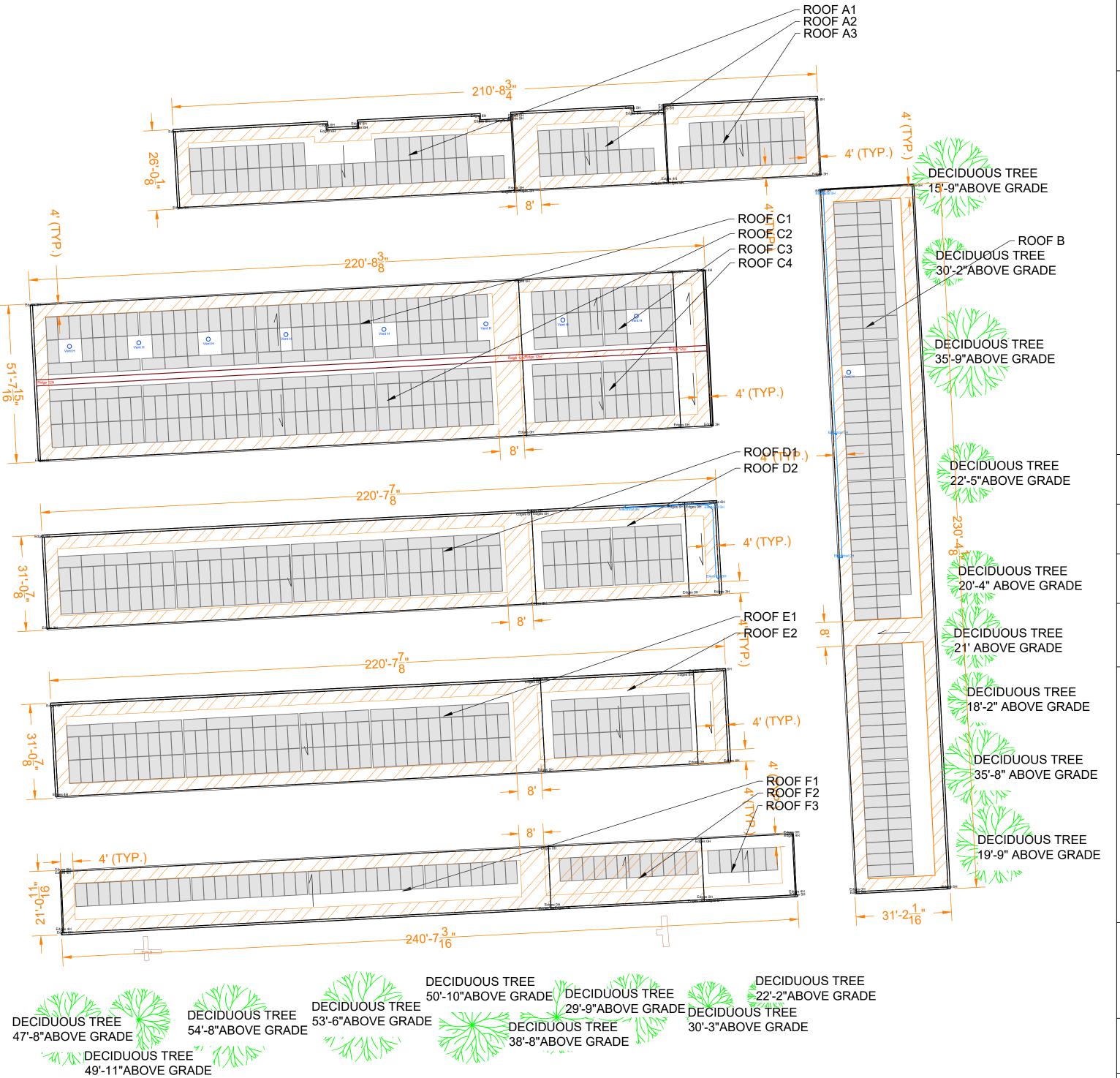
DECIDUOUS TREE

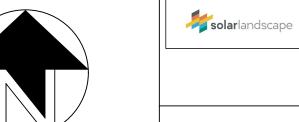
64'-8" ABOVE GRADE

28'-3"ABOVE GRADE

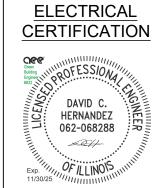
DECIDUOUS TREE

63'-10" ABOVE GRADE









PUBLIC STORAGE #07008 - 777 W WISE I 777 W WISE RD SCHAUMBURG, IL 60193

CHECKED BY PB

DRAWN BY

<u>DATE</u> 01-Aug-2024

DRAWING LEVEL ISSUED FOR PERMIT

DRAWING LEVEL	ISSUED FOR PERMIT	ISSUED FOR PERMIT			
DATE	09-JUL-2024	01-AUG-2024			
REV.	4	В	ပ	Q	Ш

SHEET SIZE 36X24 SHOULD MEASURE 1":

> <u>SCALE</u> 1:275

SHEET TITLE

G30
FIRE ACCESS

PLAN