

OCEAN STATE JOB LOT FAIRHAVEN

350.14 KW-DC SOLAR PV SYSTEM
11 BERDON WAY
FAIRHAVEN, MA, 02719



ECOGY ENERGY

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315 FLATBUSH AVENUE, #393
BROOKLYN, NY 11217
projectmanagement@ecogyenergy.com
(718)-304-0945

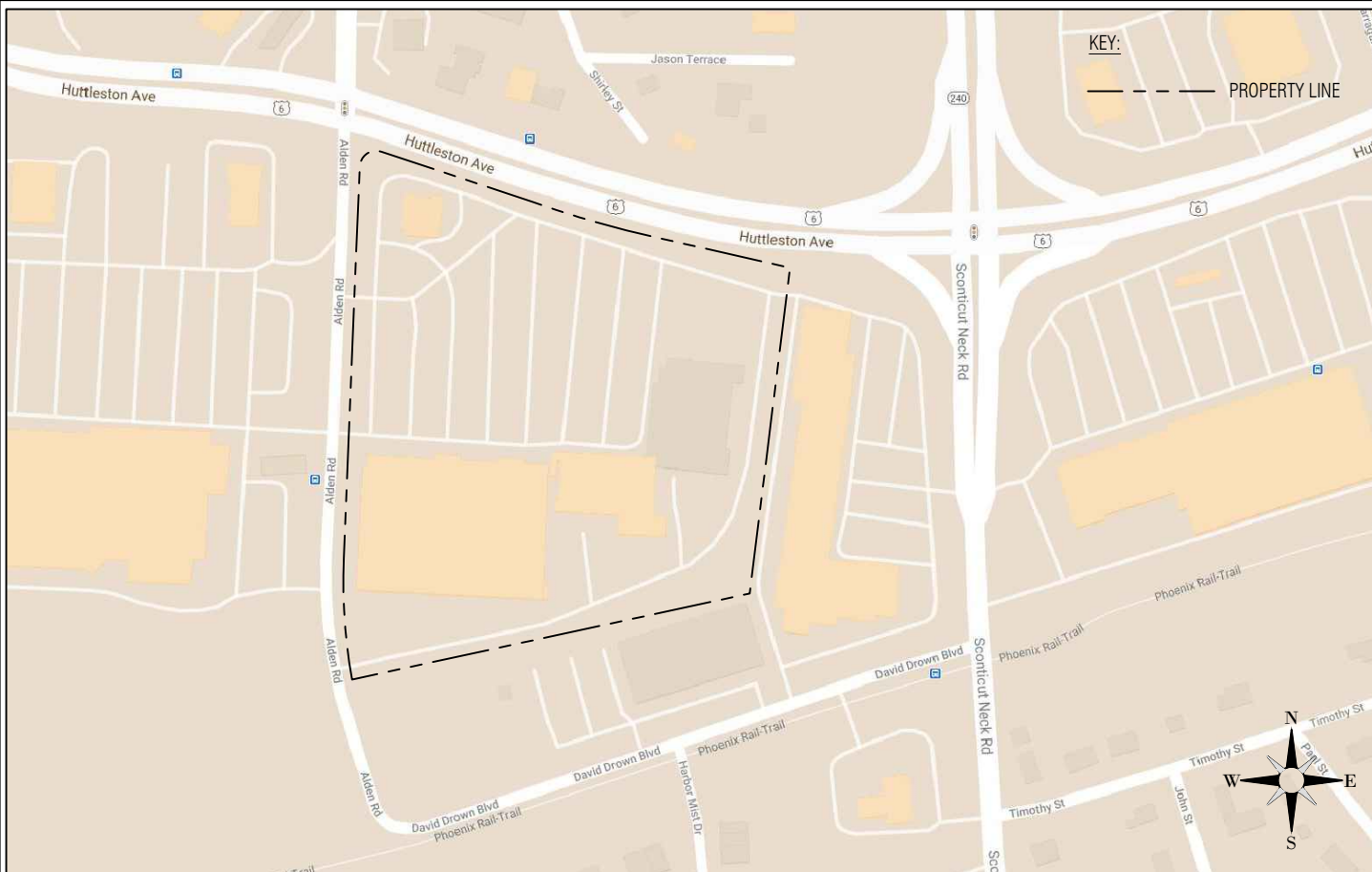
Ecogy MA XI LLC

Project Name:
OSJL - FAIRHAVEN
350.14 kW-DC PV SYSTEM

Project Site:
11 BERDON WAY
FAIRHAVEN, MA 02719

LOCATION MAP
SCALE: NTS

SATELLITE MAP
SCALE: NTS



#	REVISION DESCRIPTION	DATE	BY

Professional Stamp

PRELIMINARY

SHEET NAME:

TITLE SHEET

PLAN SET: 25% BID	DRAWN BY: KT	CHECKED BY: DM
DATE: 05/05/2023	DWG. NUMBER: G-001	
SHEET NUMBER: X X		

25% BID SET
ISSUE DATE: 05/05/2023

SCOPE OF WORK:

INSTALL A ROOF MOUNTED SOLAR PV SYSTEM.
THE POWER GENERATED BY THE PV SYSTEM WILL BE
INTERCONNECTED WITH THE UTILITY GRID

THE PV SYSTEM DOES NOT INCLUDE STORAGE
BATTERIES

SYSTEM SUMMARY:

350.14 kW DC
199.9 kW-AC
TILT ANGLE = 10 °
AZIMUTH = 183°

EQUIPMENT:

MODULES:
410 W MODULES
INVERTERS:
SOLAREGE INVERTER
RACKING:
T.B.D.
DAS:
ECOGY ECONODE

SITE SPECIFICATIONS:

WIND EXPOSURE:
CATEGORY --
DESIGN WIND SPEED:
XXX MPH
GROUND SNOW LOAD:
XX PSF
BUILDING OCCUPANCY:
XXX
ROOF MATERIAL:
XXX

CODES & STANDARDS:

2020 NATIONAL ELECTRICAL CODE
2015 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL FIRE CODE

UTILITY:

EVERSOURCE EAST

DRAWING LIST

DWG. NO.	DRAWING TITLE	25%	50%	75%	90%
G-001	TITLE SHEET	I			
PV-100	SITE PLAN	I			
PV-102	ARRAY LAYOUT	I			
PV-115	INVERTER LAYOUT	I			
PV-118	AC EQUIPMENT PLAN	I			
PV-505	CONDUIT DETAILS	I			
PV-507	TRANS PAD DETAILS	I			
PV-508	MISC. MECHANICAL DETAILS	I			
PV-509	CAMERA AND PYRANOMETER	I			
E-100	ONE-LINE DIAGRAM	I			
E-701	ECONODE WIRING	I			

KEY

REVISED	●
UNCHANGED	○
ISSUED	I
REMOVED	X



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SHEET NAME:

SITE PLAN

PLAN SET: 25% BID	DRAWN BY: SCG	CHECKED BY: DM
DATE: 05/05/2023	DWG. NUMBER:	
SHEET NUMBER:	PV-100	

UTILITY EQUIPMENT KEY:

- ① (E) UTILITY 750 kVA TXFMR (13.2kVA/480V) (PAD MOUNTED)
- ② (E) UTILITY METER FOR BLDG SERVICE
- ③ (E) UTILITY RISER POLE (#353-6)
- ④ (E) UTILITY POLE W/ POLE MTD TXFMRS
- ⑤ (N) 500 kVA OIL FILLED TXFMR XXX KV PRI/ 480 V SEC (PAD MTD)
- ⑥ (N) UTILITY RISER POLE
- ⑦ (N) UTILITY TAKE OFF POLE
- ⑧ UTILITY BI-DIRECTIONAL METER (PV SYSTEM) (24/7 ACCESSIBLE)

CUSTOMER EQUIPMENT KEY:

- Ⓐ AC DISCONNECT SWITCH 400 A (PV SYSTEM) (24/7 ACCESSIBLE & LOCKABLE)
- Ⓑ 33.3kW SOLAREEDGE INVERTER 100kW SOLAREEDGE INVERTER 400 A COMBINER PANEL
- Ⓒ DAS (ECONODE)
- Ⓓ CL320 UTILITY METER ENCLOSURE

ARRAY LEGEND ROOF

ARRAY	MODULE COUNT	SIZE kW
1	101	41.41
2	131	53.71
3	410	168.10
4	114	46.74
5	28	11.48
6	28	11.48
TOTAL	812	332.92

410W MODULES

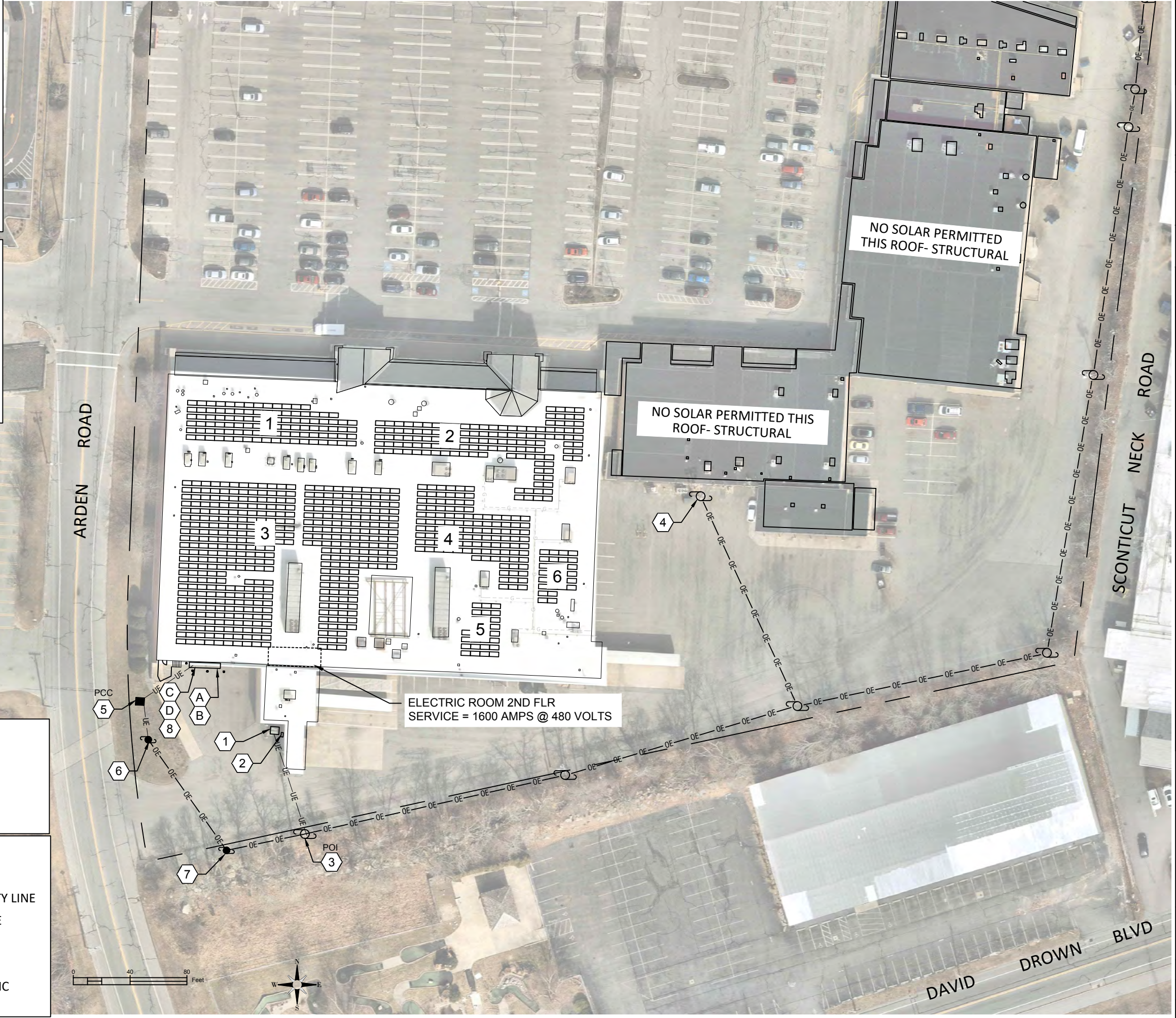
NOTE:
1. EXISTING STREET PROVIDES 20' ACCESSIBLE ROAD TO UTILITY EQUIPMENT AS PER UTILITY ACCESS REQUIREMENTS.

SYMBOLS LEGEND:

- EXISTING UTILITY POLE
- PROPOSED UTILITY POLE

LINETYPE LEGEND:

- APPROXIMATE PROPERTY LINE
- PROPERTY SETBACK LINE
- CHAINLINK FENCE
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC





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100kW SOLAREEDGE INVERTER
400 A COMBINER PANEL
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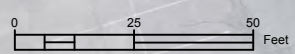
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ARDEN ROAD

ELECTRIC ROOM 2ND FLR
SERVICE = 1600 AMPS @ 480 VOLTS

POI

PCC



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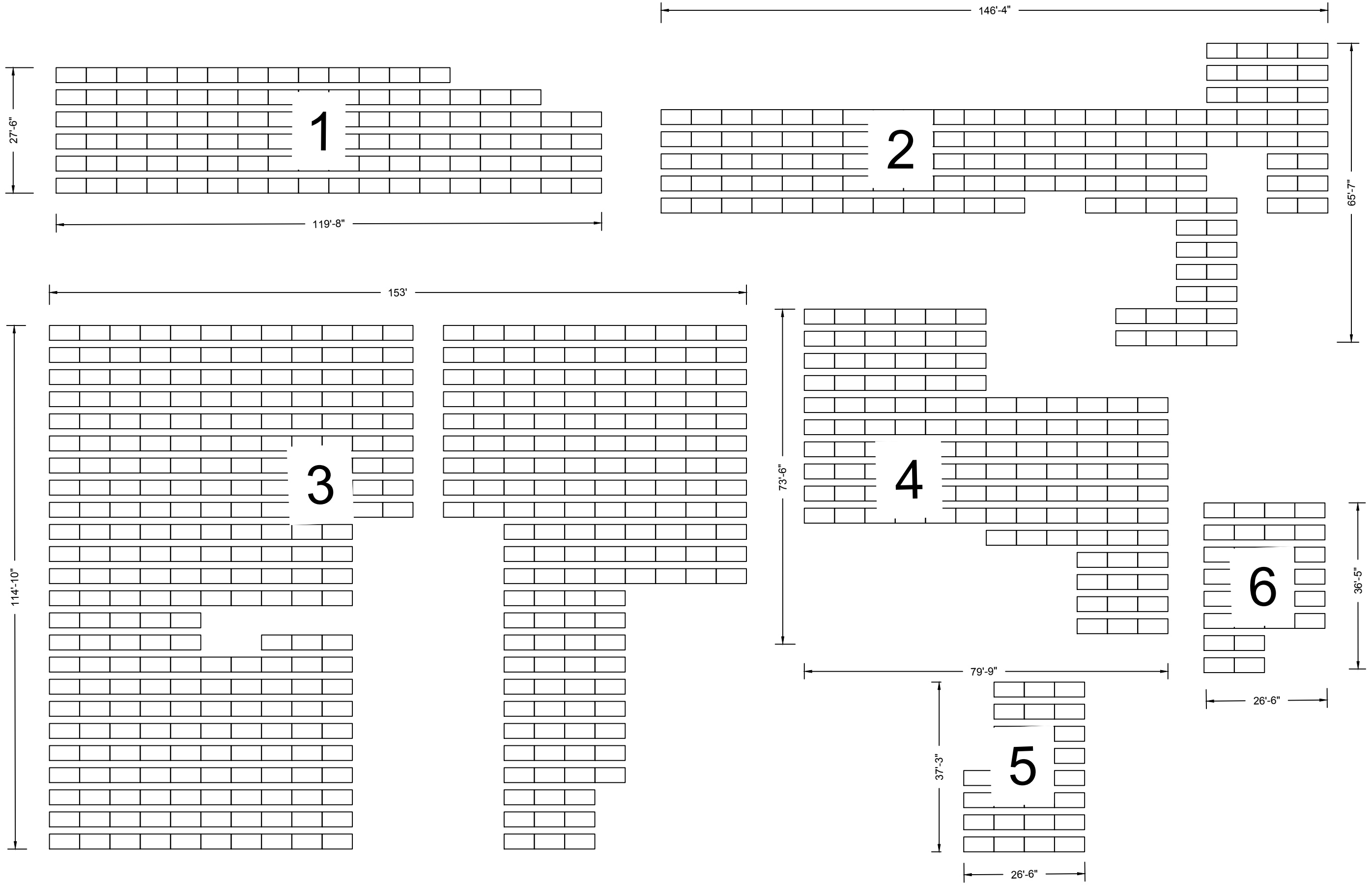
PRELIMINARY

SHEET NAME:

**SITE PLAN
PARTIAL**

PLAN SET: 25% BID	DRAWN BY: KT	CHECKED BY: DM
DATE: 05/05/2023	DWG. NUMBER:	
SHEET NUMBER:	PV-100.1	

NOTE:
SEE DRAWING PV-105 FOR SETBACKS
DIMENSIONS DO NOT INCLUDE BALLAST TRAYS



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PRELIMINARY

SHEET NAME:
ARRAY LAYOUT

PLAN SET: 25% BID	DRAWN BY: KT	CHECKED BY: DM
DATE: 05/05/2023	DWG. NUMBER:	
SHEET NUMBER:	PV-102	