

- PV1 VICINITY MAP, SITE PLAN, SCHEMATIC HOUSE PLAN
 PV2 SCHEMATIC HOUSE ELEVATIONS, GARAGE ELEVATIONS, GARAGE PLAN
 PV3 SOLAR SIGNAGE, SOLAR ONE LINE DIAGRAM

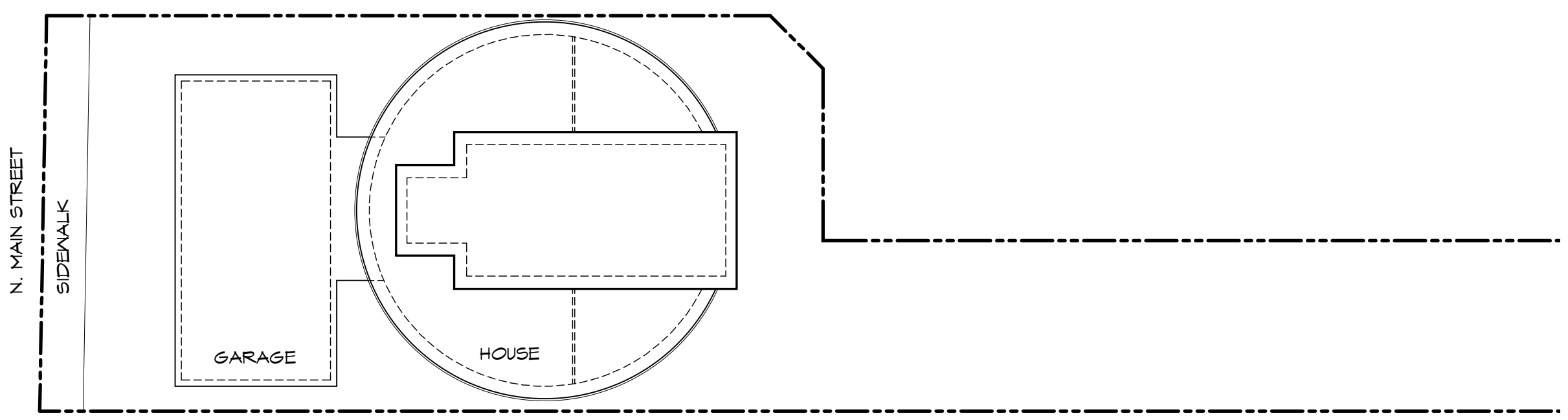
INDEX

PROJECT OWNER: MR & MRS CHRIS HOLMES
 PROJECT ADDRESS: HOLMES RESIDENCE
 1550 NORTH MAIN STREET
 LAKEPORT, CA 95453
 PARCEL NUMBER: 026-211-13
 CONSTRUCTION TYPE: V

PROPOSED PROJECT DESCRIPTION
 PROPOSED IMPROVEMENTS ARE FOR INSTALLATION OF TWO
 ROOF MOUNTED SOLAR PANEL ARRAYS TO BE LOCATED AS
 SHOWN ON ROOF PLANS AND ELEVATIONS.

*NOTE:
 SHOWN SITE PLAN IS FOR GENERAL REPRESENTATION
 OF THE SITE CONDITIONS ONLY. OWNER IS
 RESPONSIBLE FOR LOCATING ALL PROPERTY LINES,
 EASEMENTS, AND THE PRESENCE OF UTILITIES.

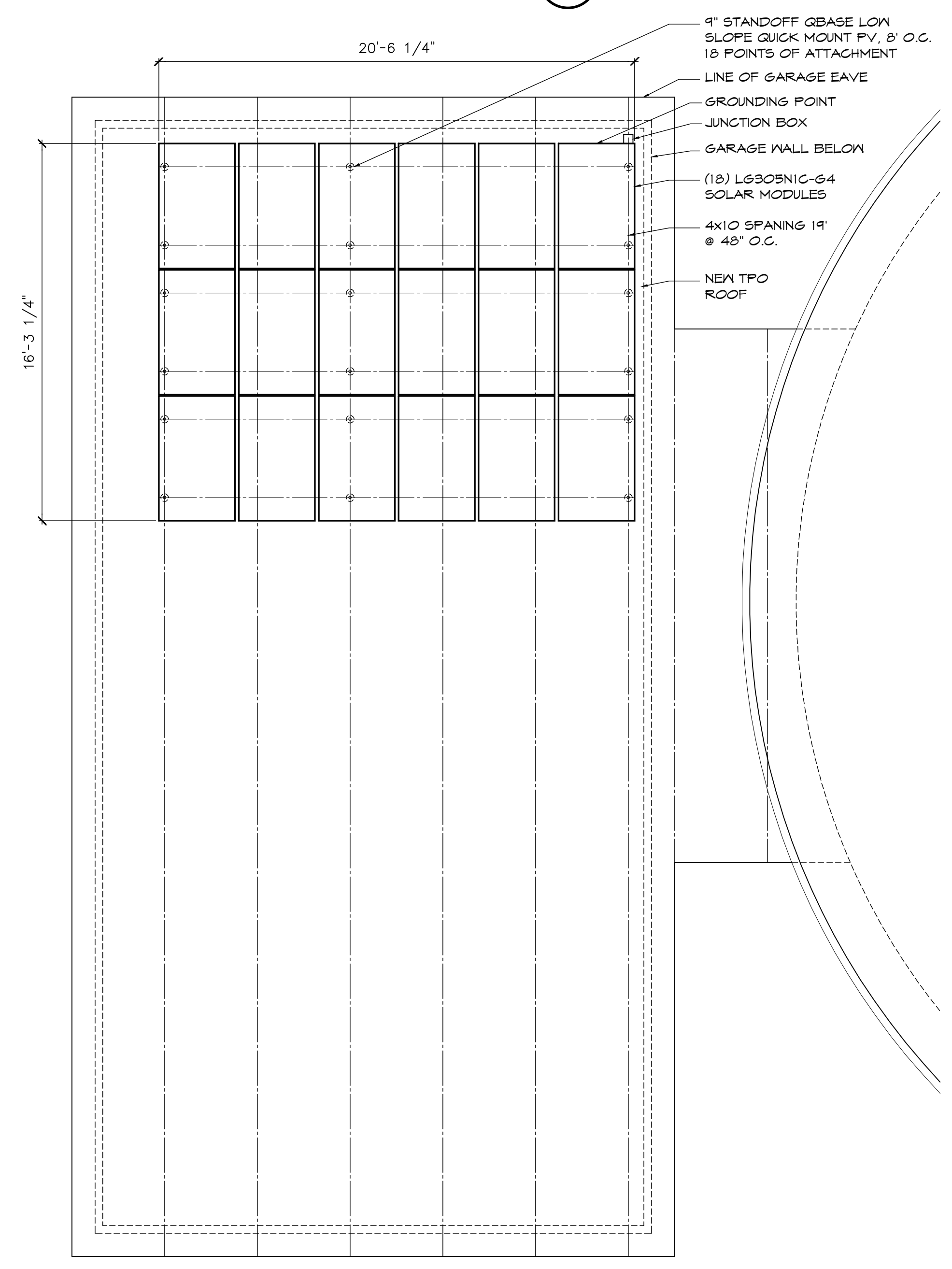
NO SITE IMPROVEMENTS ARE PROPOSED, EXISTING SITE
 ELEMENTS TO REMAIN, U.O.N.



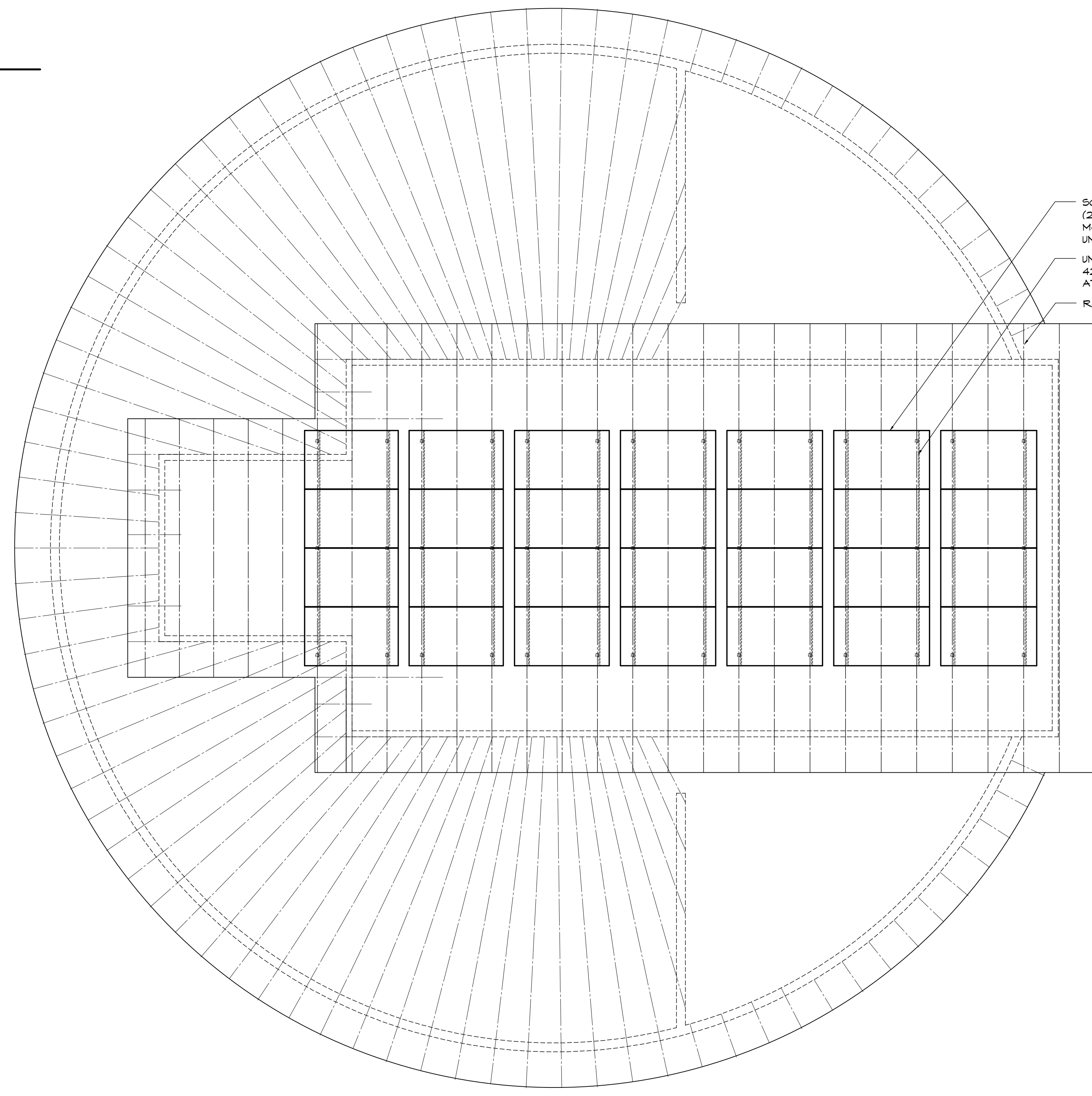
1 SITE PLAN
 SCALE: 1" = 20'

1 VICINITY MAP

2 PROJECT DATA



- 9" STANDOFF QBASE LOW SLOPE QUICK MOUNT PV, 8' O.C. 18 POINTS OF ATTACHMENT
- LINE OF GARAGE EAVE
- GROUNDING POINT
- JUNCTION BOX
- GARAGE WALL BELOW
- (18) LG30BN1C-64 SOLAR MODULES
- 4X10 SPACING 19" @ 48" O.C.
- NEW TPO ROOF



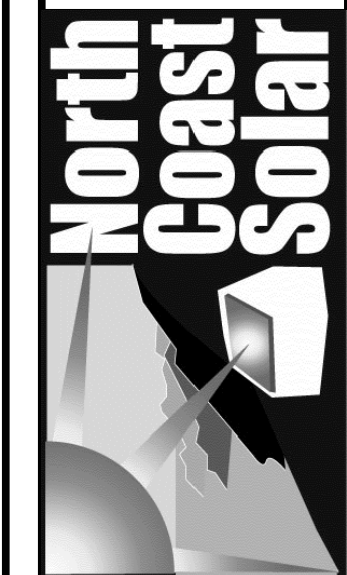
- SOLAR ARRAY (28) LG 305 SOLAR MODULES UNIRAC SOLAR MOUNTING
- UNIRAC L FOOT 6' O.C. 42 POINTS OF ATTACHMENT
- RAFTERS @ 24" O.C.

2 SCHEMATIC GARAGE PLAN
 SCALE: 1/4" = 1'-0"

3 SCHEMATIC HOUSE PLAN
 SCALE: 1/4" = 1'-0"

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1468 FUNSTON DRIVE
 SANTA ROSA, CA 95407
 PH. 707-575-3999
 FAX 707-575-3525
 WWW.NCSF.COM
 CAL #: 649300



HOLMES RESIDENCE
PROPOSED SOLAR PANEL LAYOUT
 1550 N MAIN STREET, LAKEPORT, CA, 95453

Date: 06/18/16
 Scale: NOTED
 Drawn: JBJ
 Job: 1602
 Sheet
PV1
 Of 3 Sheets

Date: Jul 07, 2016 - 10:59am Filename: C:\ACAD\Users\1602 - Holmes\Holmes Residence.dwg Uploaded by: Jim

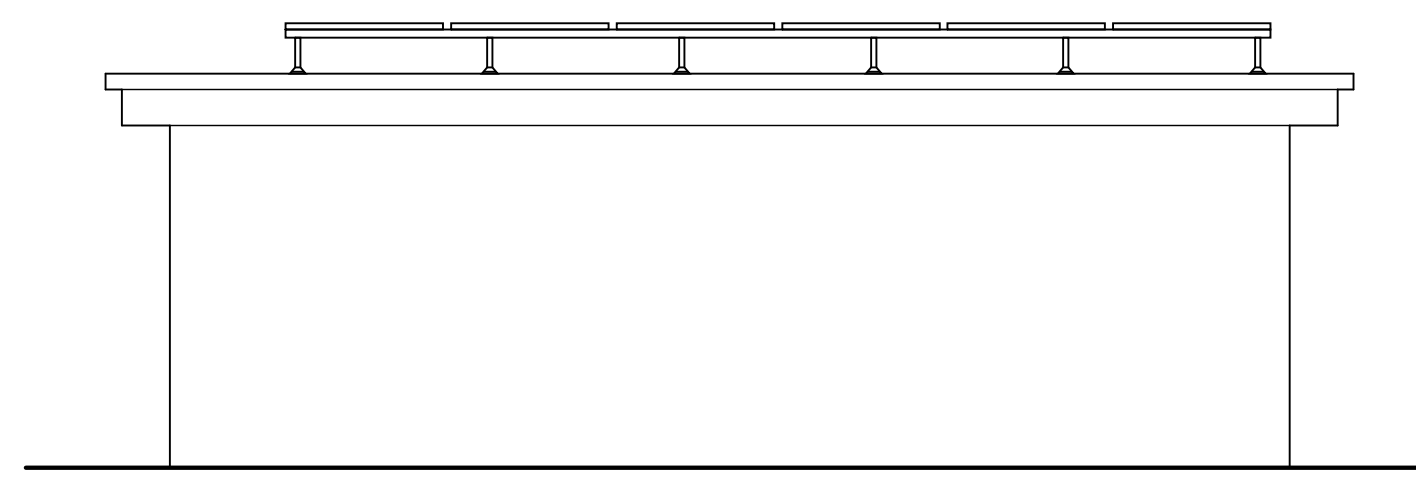
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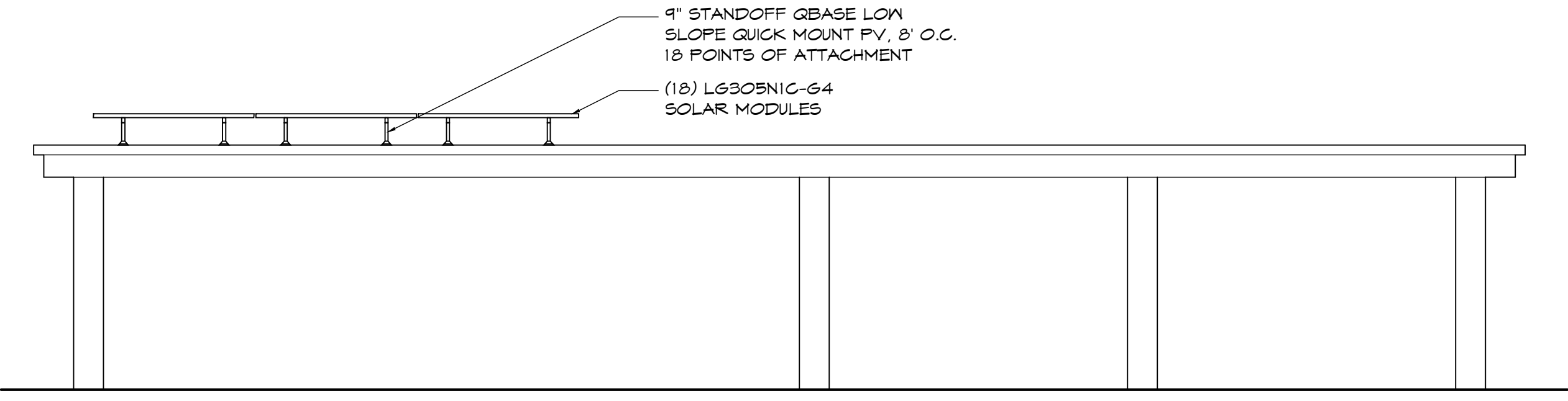


HOLMES RESIDENCE
 PROPOSED SOLAR PANEL LAYOUT
 1550 N MAIN STREET, LAKEPORT, CA 95453

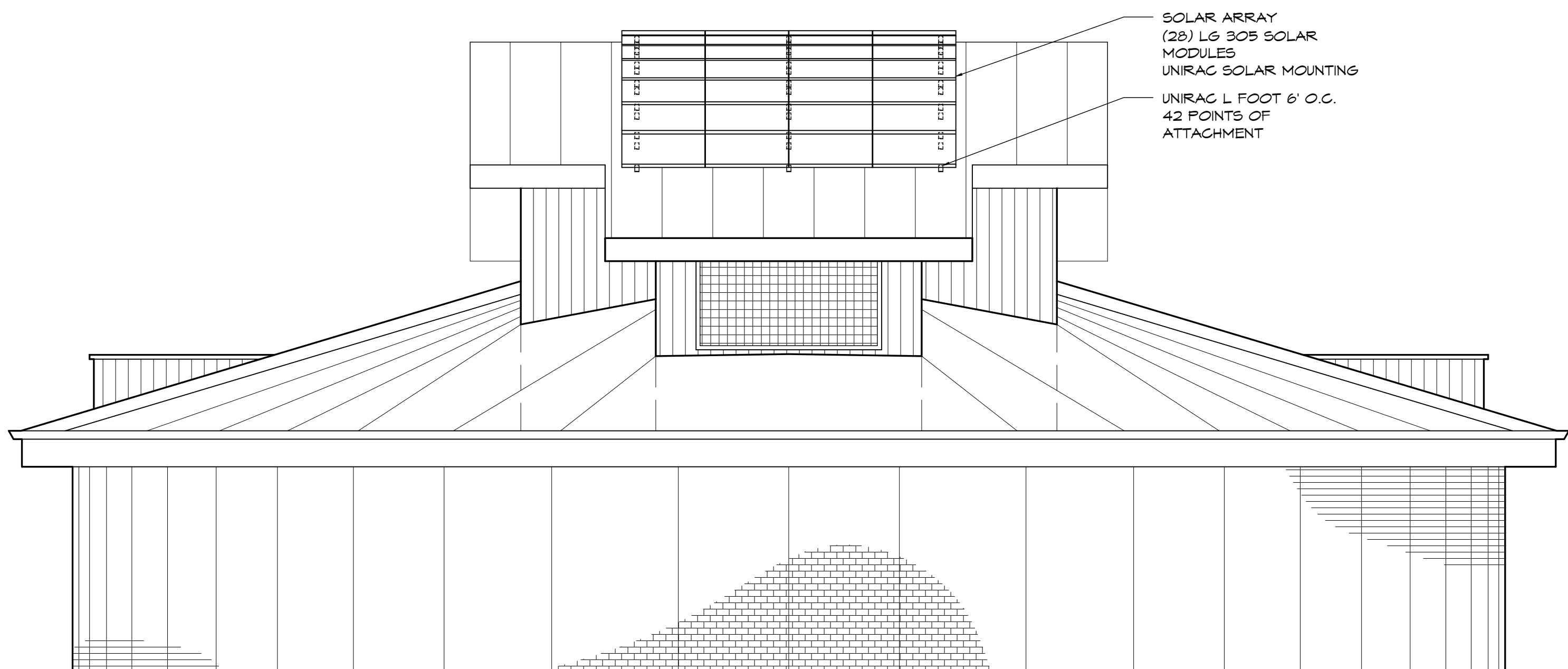
Date: 06/18/16
 Scale: NOTED
 Drawn: JBJ
 Job: 1602
 Sheet
PV2
 Of 3 Sheets



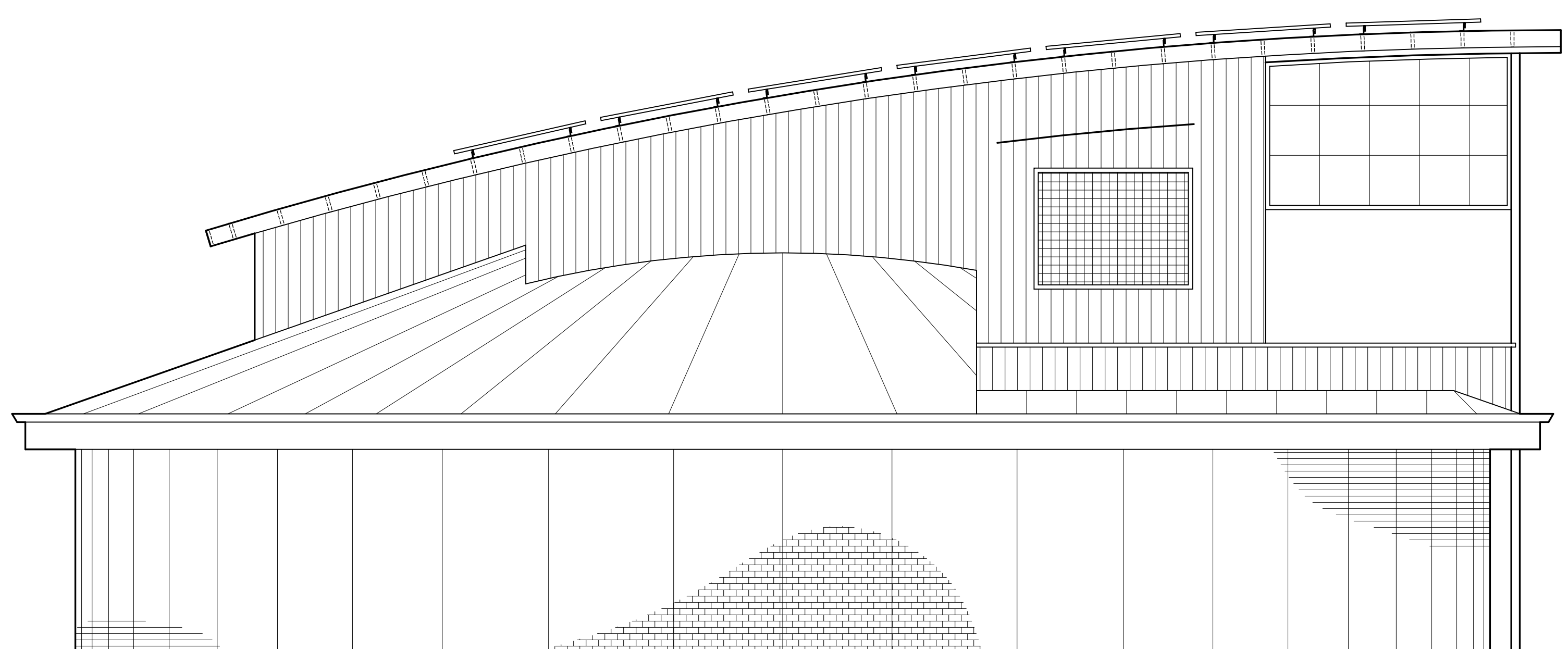
1 NORTH ELEVATION - GARAGE
 SCALE: 1/4" = 1'-0"



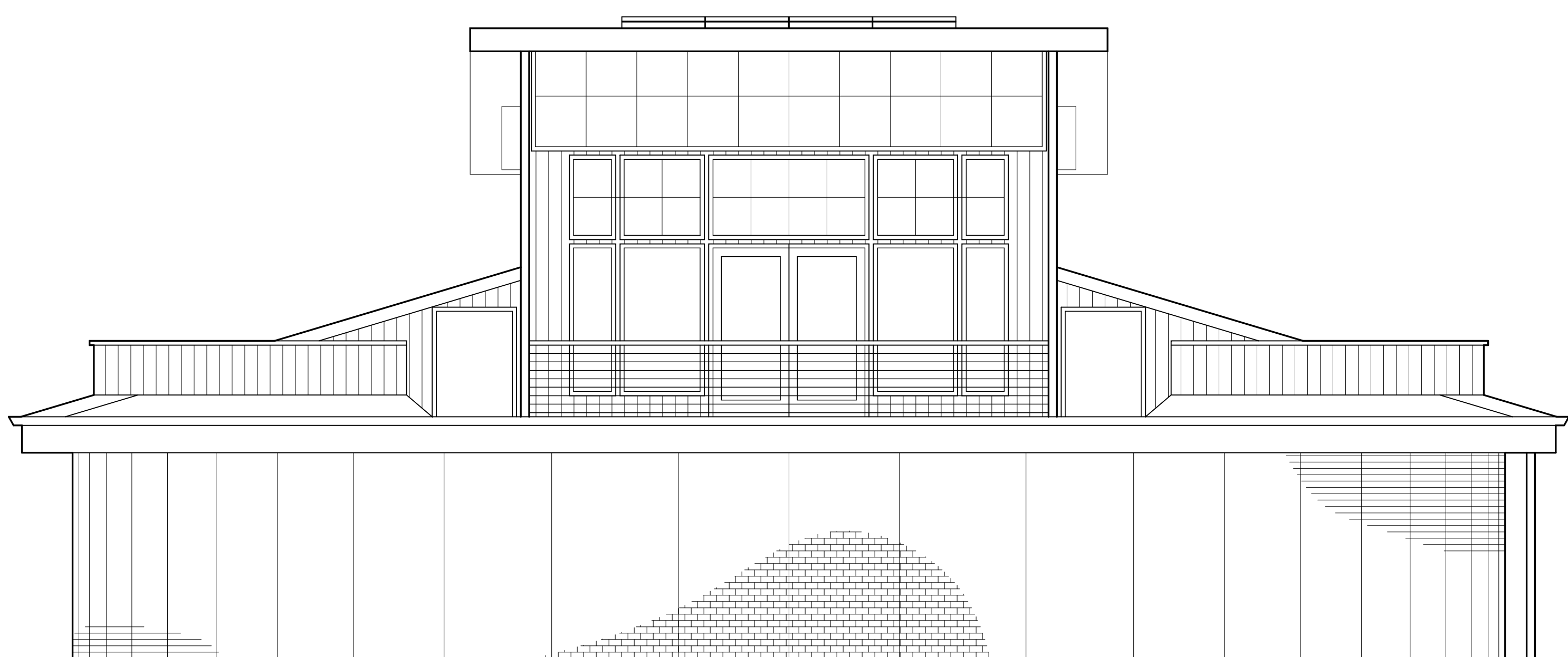
2 WEST ELEVATION - GARAGE
 SCALE: 1/4" = 1'-0"



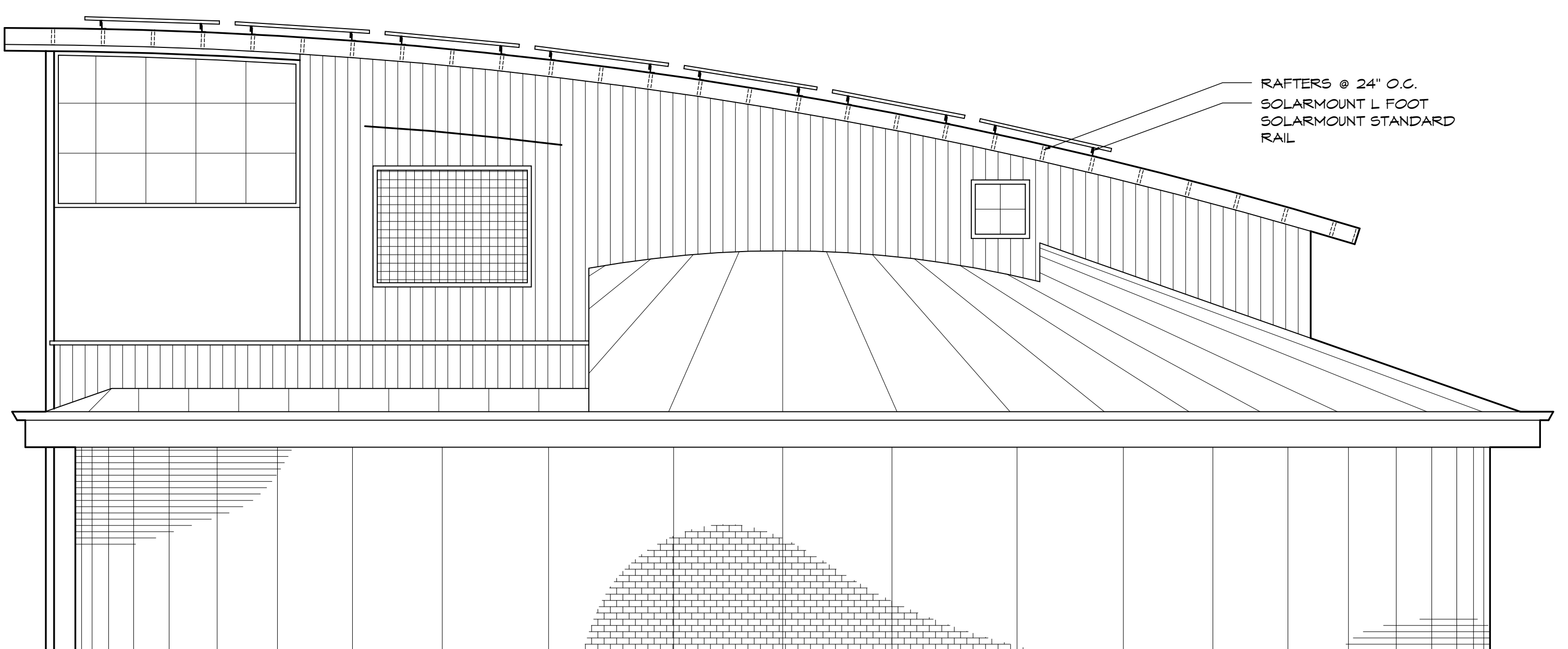
3 WEST ELEVATION - HOUSE
 SCALE: 1/4" = 1'-0"



4 SOUTH ELEVATION - HOUSE
 SCALE: 1/4" = 1'-0"



5 EAST ELEVATION - HOUSE
 SCALE: 1/4" = 1'-0"



6 NORTH ELEVATION - HOUSE
 SCALE: 1/4" = 1'-0"

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SOLAR SIGNAGE:

DISCONNECT PHOTOVOLTAIC SYSTEM FROM UTILITY

AC MODULE JUNCTION BOXES:
WARNING-ELECTRIC SHOCK HAZARD
-DANGEROUS VOLTAGES AND CURRENTS-
-NO USER SERVICEABLE PARTS INSIDE
CONTACT QUALIFIED SERVICE PERSONNEL FOR ASSISTANCE.

MAIN ELECTRICAL PANEL:
WARNING
MULTIPLE POWER SOURCES
A PHOTOVOLTAIC SYSTEM IS PRESENT.
120 VAC and 240 VAC may be produced.
Disconnect all power sources before servicing.

SOLAR SIGNAGE

LG neON² LG300NIC-G4

Mechanical Properties

Cells	6x10
Cell Wafer	US
Cell Type	Monocrystalline / N-type
Cell Dimensions	150.75x150.75 mm (6 inches)
x of Bar	12 (6x6) Wire (2x12)
Dimensions (L x W x H)	1445 x 1000 x 40 mm 60.83 x 39.37 x 1.57 inch
Front Load	6000 Pa / 17.23 psf
Rear Load	3400 Pa / 11.1 psf
Weight	17.0 x 10.5 kg / 37.4 lb x 23.1 lb
Connector Type	MCA, MCA Composite, P67
Junction Box	IP67 Rated 3 System Design
Length of Cable	2 x 1000 mm / 2 x 39.37 inch
Glass	High Transmission Tempered Glass
Frame	Anodized Aluminum

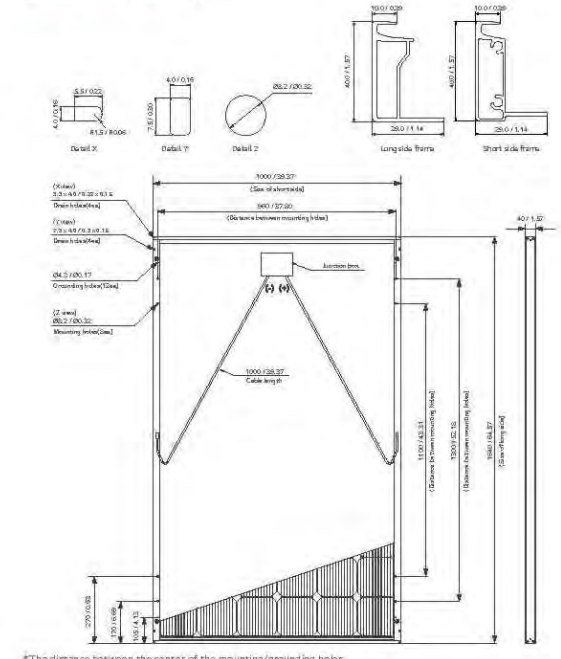
Electrical Properties (STC*)

Module Type	300 W
MPP Voltage (Vmpg)	32.5
MPP Current (Impg)	9.38
Open Circuit Voltage (Voc)	40.1
Short Circuit Current (Isc)	9.93
Module Efficiency (%)	18.8
Operating Temperature (°C)	-40 ~ +85
Maximum System Voltage (V)	1000
Maximum Series Fuse Rating (A)	20
Power Tolerance (%)	0 ~ +3

Electrical Properties (NOCT*)

Module Type	300 W
Maximum Power (Pmax)	223
MPP Voltage (Vmpg)	29.7
MPP Current (Impg)	7.50
Open Circuit Voltage (Voc)	37.1
Short Circuit Current (Isc)	8.01

Dimensions (mm/in)



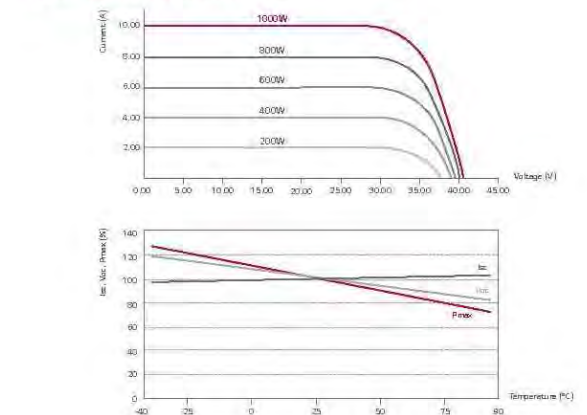
Certifications and Warranty

Certifications	IEC 61215, IEC 61730-1/-2, IEC 62108 (Photonic Test), IEC 61701 (Salt Mist Corrosion Test), ISO 9001, UL 1703
Module Fire Performance (USA)	Type 2 (UL 1703)
Fire Rating for CAN/AMSA	Class C (UL 1849 C1, C2)
Product Warranty	12 years
Output Warranty of Power	Linear warranty*

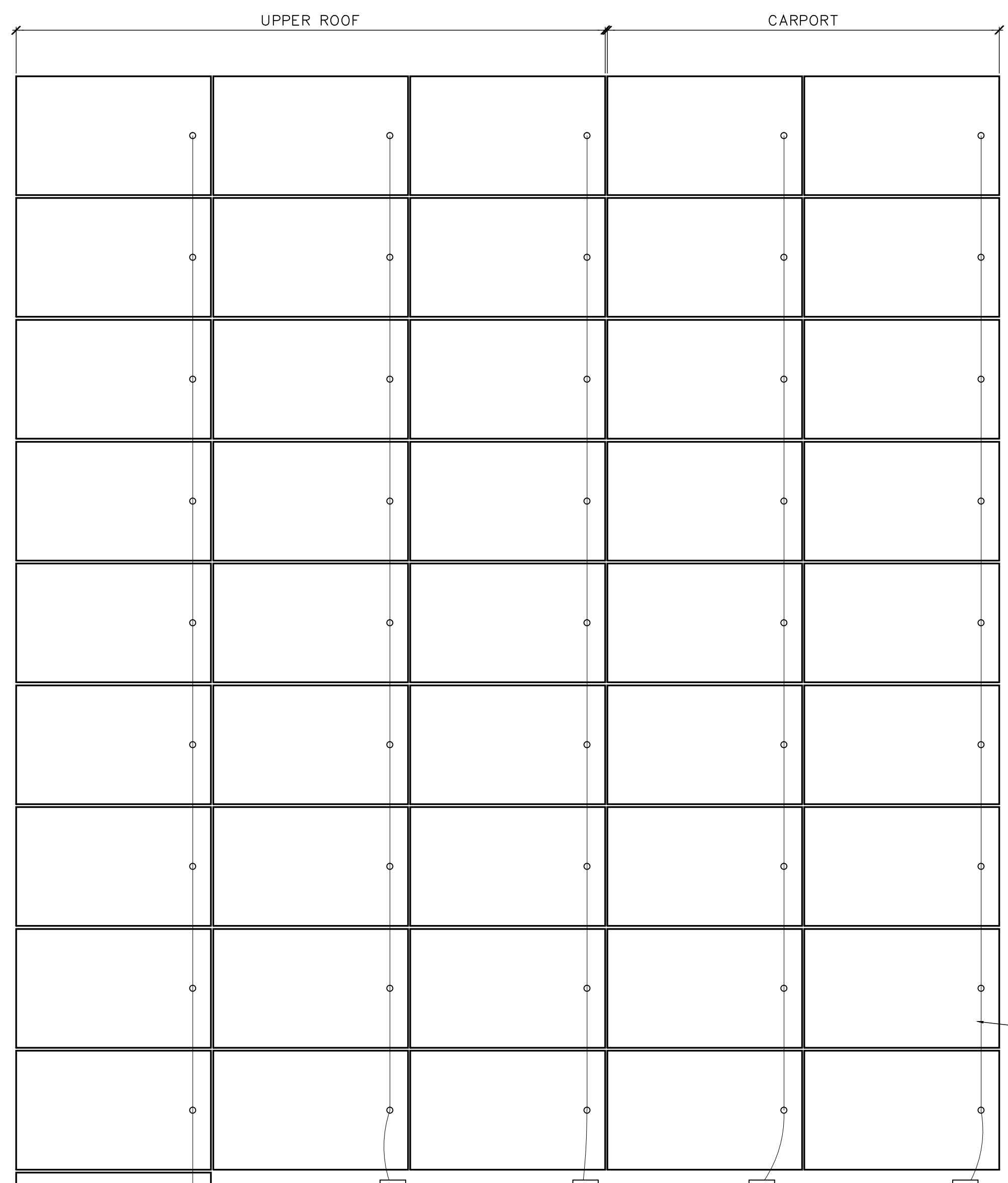
Temperature Characteristics

NOCT	45 ± 1 °C
Pmpg	-0.38 W/°C
Voc	-0.29 V/°C
Isc	0.03 A/°C

Characteristic Curves



North America Sales & Service Dept.
LG Electronics U.S.A. Inc.
1500 Silver Lake Drive, Fremont, CA, 94539
www.lg.com
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(46) LG SOLAR
LG300NIC-G4 SOLAR
MODULES

CARPORT:
(18) LG300NIC-G4
SOLAR MODULES

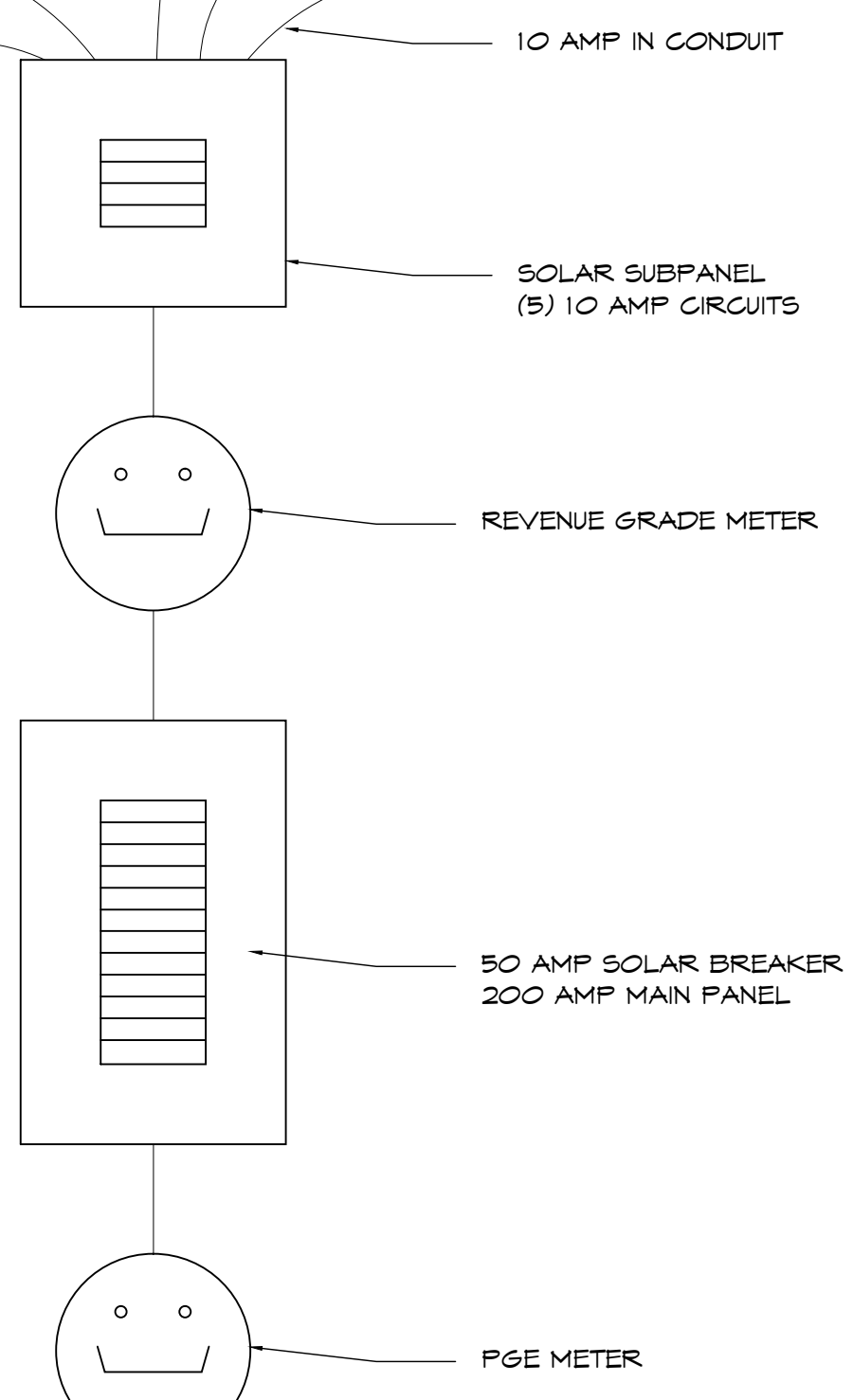
UPPER ROOF: (HOUSE)
(28) LG300NIC-G4
SOLAR MODULES

MAKE: LG
MODEL: LG300NIC-G4

BUSSBAR = 225 AMPS

50 AM SOLAR BREAKER +
200 AMP MAIN BREAKER =
250 AMPS

P_{MAX} = 305W
V_{mp} = 32.5V
I_{mp} = 9.38A
V_{OC} = 40.1V
I_{SC} = 9.93A



SOLAR CONTRACTOR ENGINEER NAME: BRIAN HINES

SIGNATURE: _____

DATE: _____

CAL #: 649300

SOLAR ONE LINE DIAGRAM

REVISIONS #

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North Coast Solar

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COLLECTOR SPEC SHEET LG 300NIC-G4