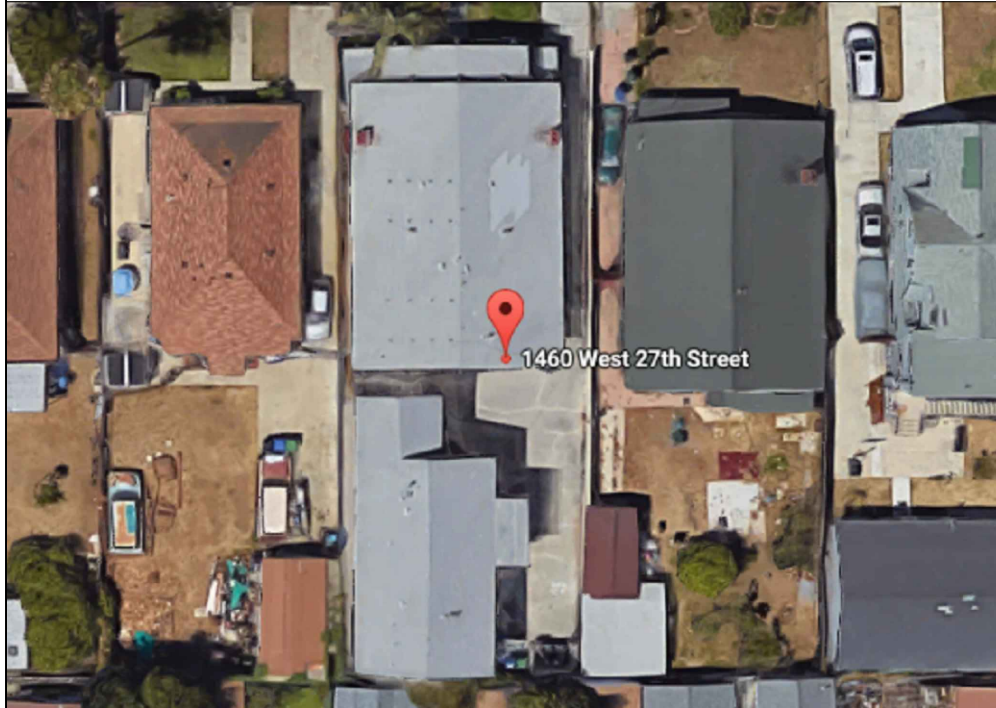




**SOLAR COMPANY**  
**TALIS**  
 Renewable Energy  
 (562) 988-3411

**CONTRACTOR INFO**  
 MACGREINE ENERGY  
 CORP.  
 707 IDAHO AVE. #204  
 SANTA MONICA, CA 90403  
 (323) 702-3267  
 LICENSE#: C46-1000366  
 EXP. DATE: 01/31/2017

**HOUSE PHOTO**



**CUSTOMER INFORMATION**

**PROJECT ADDRESS**  
 1460 W. 27TH. ST,  
 LOS ANGELES, CA 90007

**PROJECT DESCRIPTION:**  
 COMMERCIAL SOLAR ELECTRIC SYSTEM  
 100 X 300W ROOF MOUNTED PV MODULES  
 SYSTEM SIZE: 30.0 kW DC STC  
 ARRAY AREA: 2200 SF

**SHEET INDEX**

PV 1: SYSTEM INFORMATION  
 HOUSE PHOTO, VICINITY MAP,  
 PV 2: SITE PLAN  
 PV 3: ROOF PLAN  
 PV 4: CONNECTION DETAIL, ELEVATION PLAN  
 GROUNDING DETAIL  
 PV 5: ELECTRICAL LINE DIAGRAM  
 PV 6: REQUIRED SIGNAGE  
 S 1: SOLAR PANEL SPEC SHEET  
 S 2: INVERTER AND MONITOR SPEC SHEET  
 S 3: RAIL SPEC SHEET  
 S 4: GROUNDING DETAIL  
 ATTACHMENT DETAIL

SIGNATURE

**PROJECT TITLE**  
 30.0 DC kW  
 PHOTOVOLTAIC  
 SYSTEM

**JOBSITE ADDRESS**  
 1460 W. 27TH. ST,  
 LOS ANGELES, CA 90007

**VICINITY MAP**



**CODE AUTHORITY**

ALL WORK TO COMPLY WITH THE FOLLOWING CODES:

2013 CA BUILDING CODE  
 2013 CA RESIDENTIAL CODE  
 2013 CA MECHANICAL CODE  
 2013 CA ELECTRICAL CODE  
 2013 CA FIRE CODE  
 2013 BLDNG ENERGY EFF STDS

**SYSTEM INFO**

1. (100) - PERLIGHT PLM-300M-72 MODULES
2. (50) - LEADSOLAR LS600-240 MICROINVERTERS
3. (01) - SOLAR LOAD CENTER
4. (01) - 200A SOLAR AC DISCONNECT
5. (01) - REVENUE GRADE METER

**REVISION**  
 REV: 00  
 DATE: 10/02/2016

**SPECIAL NOTE**

NEW 400A MAIN SERVICE PANEL

**SHEET TITLE**  
 GENERAL INFO  
 VICINITY MAP  
 HOUSE PHOTO

**SHEET NUMBER**  
**PV - 1**

**CONTRACTOR INFO**

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 SANTA MONICA, CA 90403  
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SIGNATURE

**PROJECT TITLE**

30.0 DC kW  
 PHOTOVOLTAIC  
 SYSTEM

**JOBSITE ADDRESS**

1460 W. 27TH. ST,  
 LOS ANGELES, CA 90007

**REVISION**

REV: 00  
 DATE: 10/02/2016

**SHEET TITLE**

ROOF PLAN

**SHEET NUMBER**

**PV - 3**

**ARRAY & ROOF INFO**

ROOF TYPE- COMP. SHINGLE  
 ROOF FRAMING- 2"X6" RAFTER @24"O.C.  
 ROOF SLOPE- 14°

ROOF 1 AZIMUTH- 270°  
 ROOF 1 PANEL AREA- 792 SF  
 ROOF 1 FACE AREA- 1250 SF  
 % COVERAGE- 63%

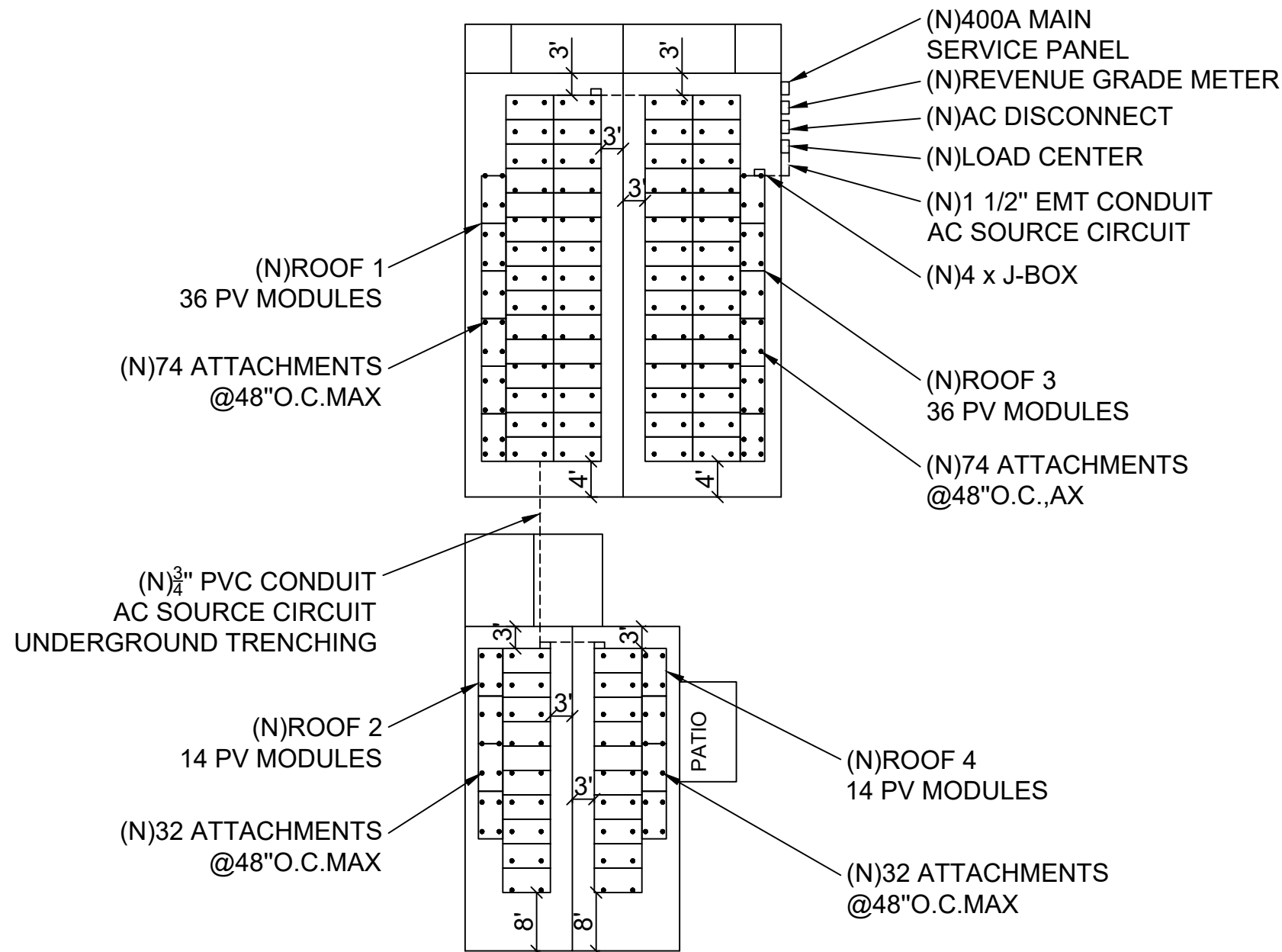
ROOF 2 AZIMUTH- 270°  
 ROOF 2 PANEL AREA- 308 SF  
 ROOF 2 FACE AREA- 650 SF  
 % COVERAGE- 47%

ROOF 3 AZIMUTH- 90°  
 ROOF 3 PANEL AREA- 792 SF  
 ROOF 3 FACE AREA- 1250 SF  
 % COVERAGE- 63%

ROOF 4 AZIMUTH- 90°  
 ROOF 4 PANEL AREA- 308 SF  
 ROOF 4 FACE AREA- 650 SF  
 % COVERAGE- 47%

**MODULE TYPE, DIMENSIONS & WEIGHT**

MODULE TYPE	PERLIGHT SOLAR PLM-300M-72
MODULE WEIGHT=	60LBS
MODULE DIMENSIONS=	78"X40" = 22SF
UNIT WEIGHT OF MODULES=	2.8PSF
ROOF 1 PANEL WEIGHT PER ATTACHMENT=	30LBS
ROOF 2 PANEL WEIGHT PER ATTACHMENT=	27LBS
ROOF 3 PANEL WEIGHT PER ATTACHMENT=	30LBS
ROOF 4 PANEL WEIGHT PER ATTACHMENT=	27LBS



NOTE: WIRING/CONDUIT RACEWAY WILL BE BETWEEN  
 1/2" TO 3 1/2" ABOVE THE ROOFTOP  
 NOTE: 12" SHALL BE THE MAXIMUM LENGTH  
 OF CANTILEVER FOR RAIL

1 | ROOF PLAN  
 PV-3 | SCALE: 1"=20'-0" N