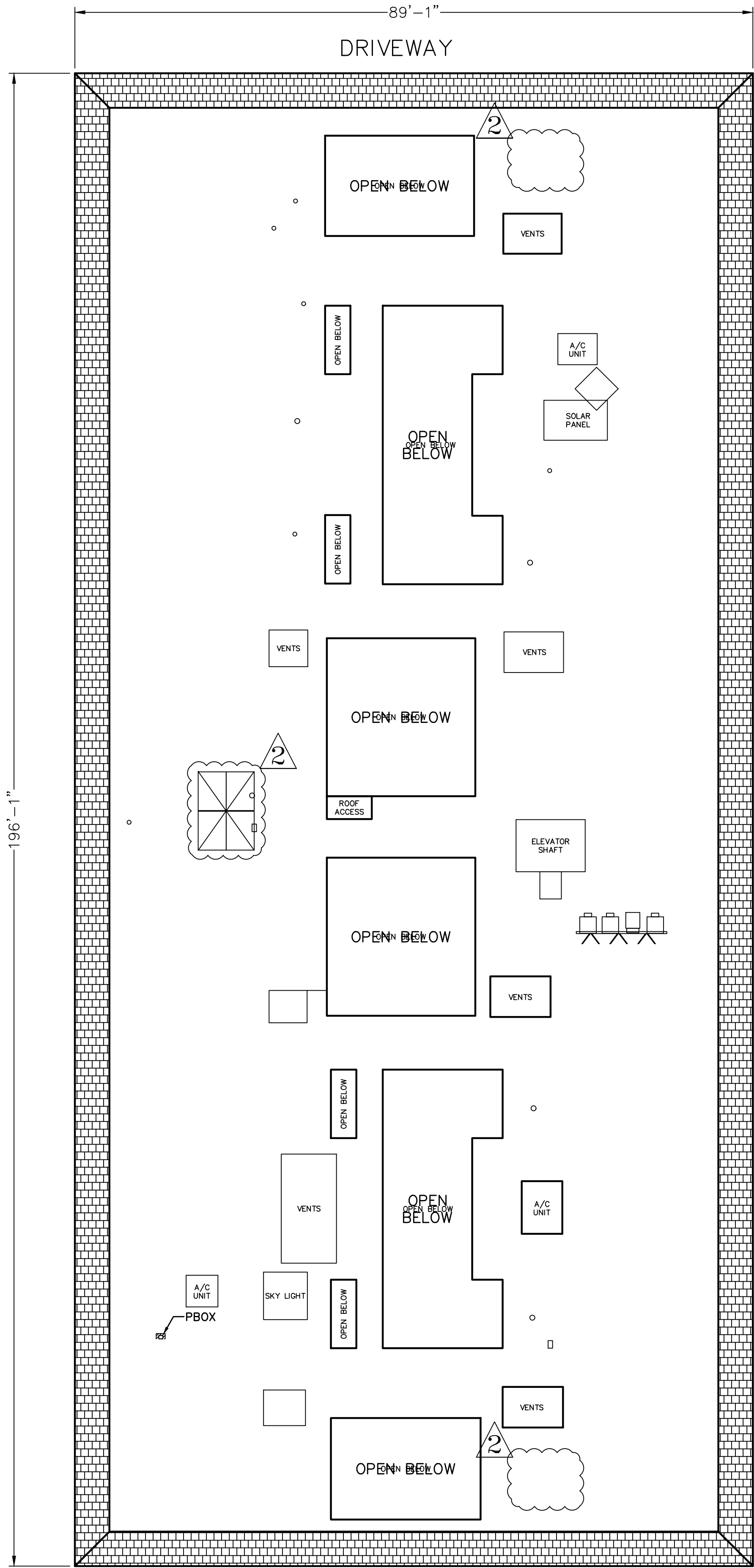
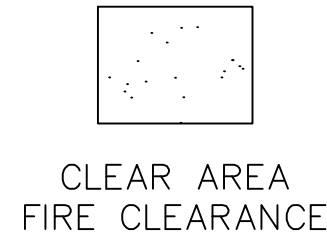
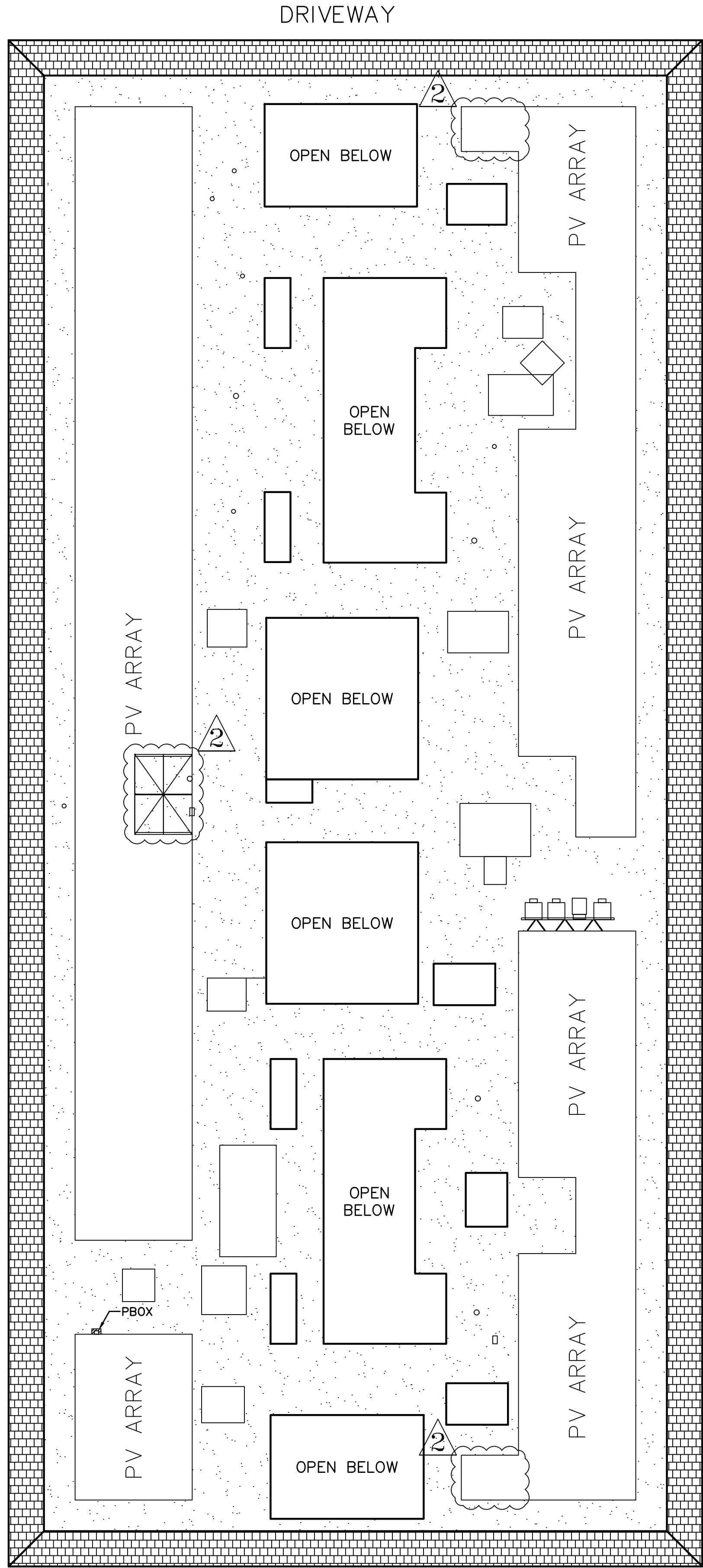
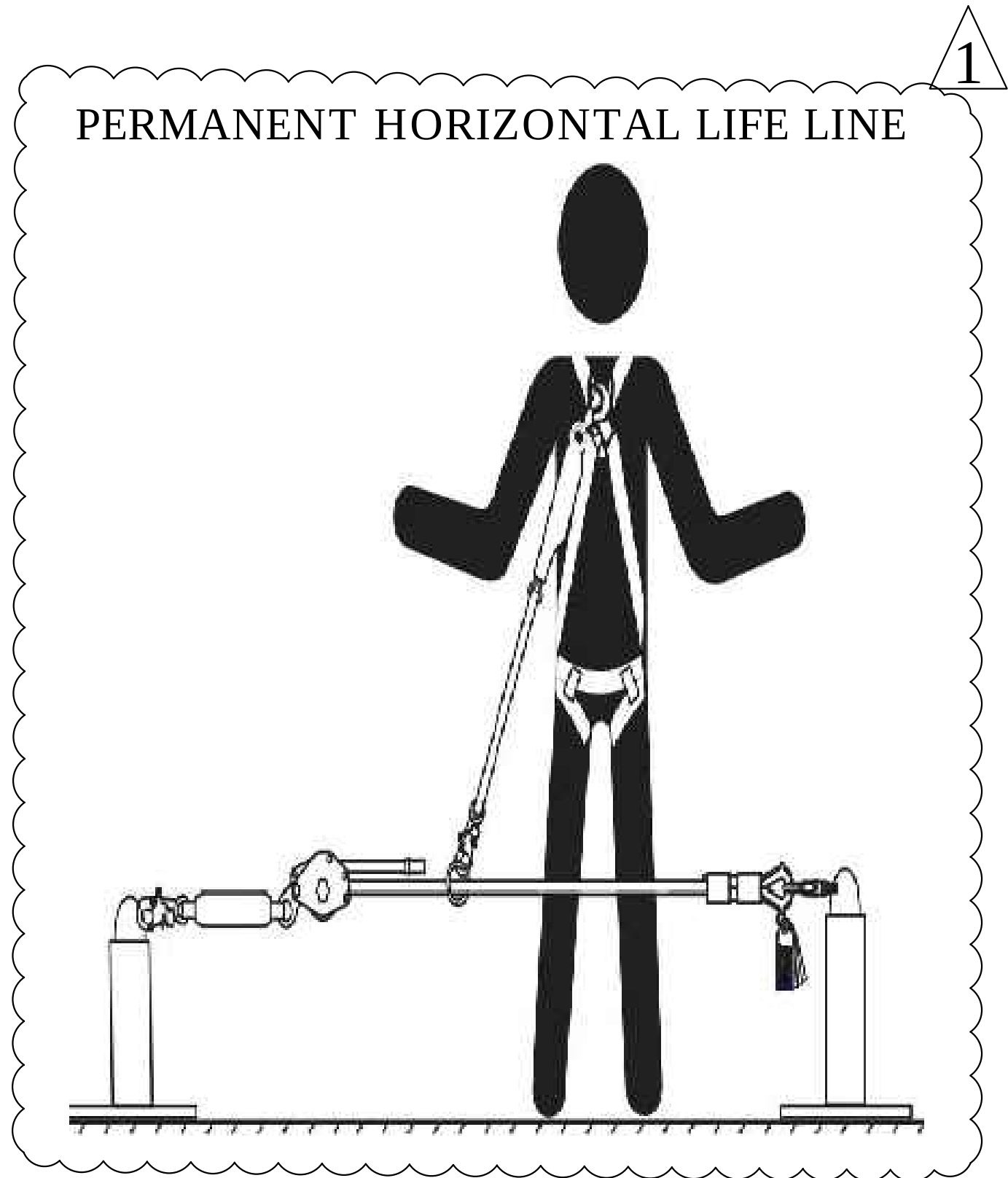




1 BUILDING LAYOUT
SCALE: 3/32"=1'-0"

2393 VIA MARIPOSA WEST FIRE CLEARANCE SITE PLAN



2 ARRAY LAYOUT
SCALE: 3/32"=1'-0"

PROJECT SITE

THIRD MUTUAL
LAGUNA WOODS VILLAGES

24351 EL TORO RD.
LAGUNA WOODS, CA 92637

PROJECT DEVELOPER



SOLAR OPTIMUM
SOLAR OPTIMUM, INC
501 WEST GLENOAKS BLVD.
GLENDALE, CA 91202
800-552-9970
WWW.SOLAROPTIMUM.COM
LICENSE NUMBER 972228 C10

CONTRACTOR



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SIGNATURE



STAMP

CITY APPROVAL STAMP

REVISION		
MARK	DATE	DESCRIPTION
1	11/14/16	AS BUILT
2	12/14/16	AS BUILT

DRAWN BY:

SCOTT

CHECKED BY:

T.T.T.

SCALE:

AS SHOWN

DATE:

12/21/16

SHEET TITLE

SITE PLAN
2393 VIA MARIPOSA
WEST GARDEN VILLA

SHEET NUMBER

S1F

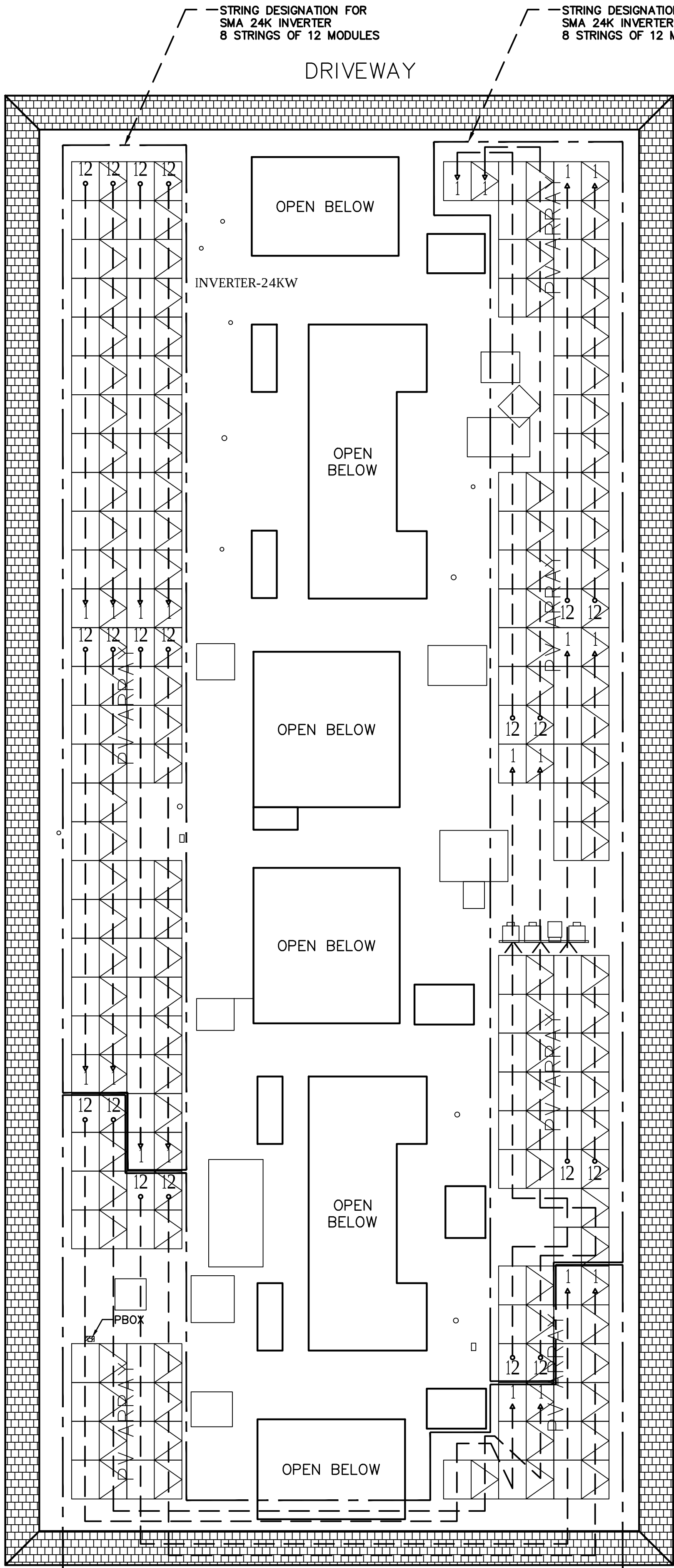
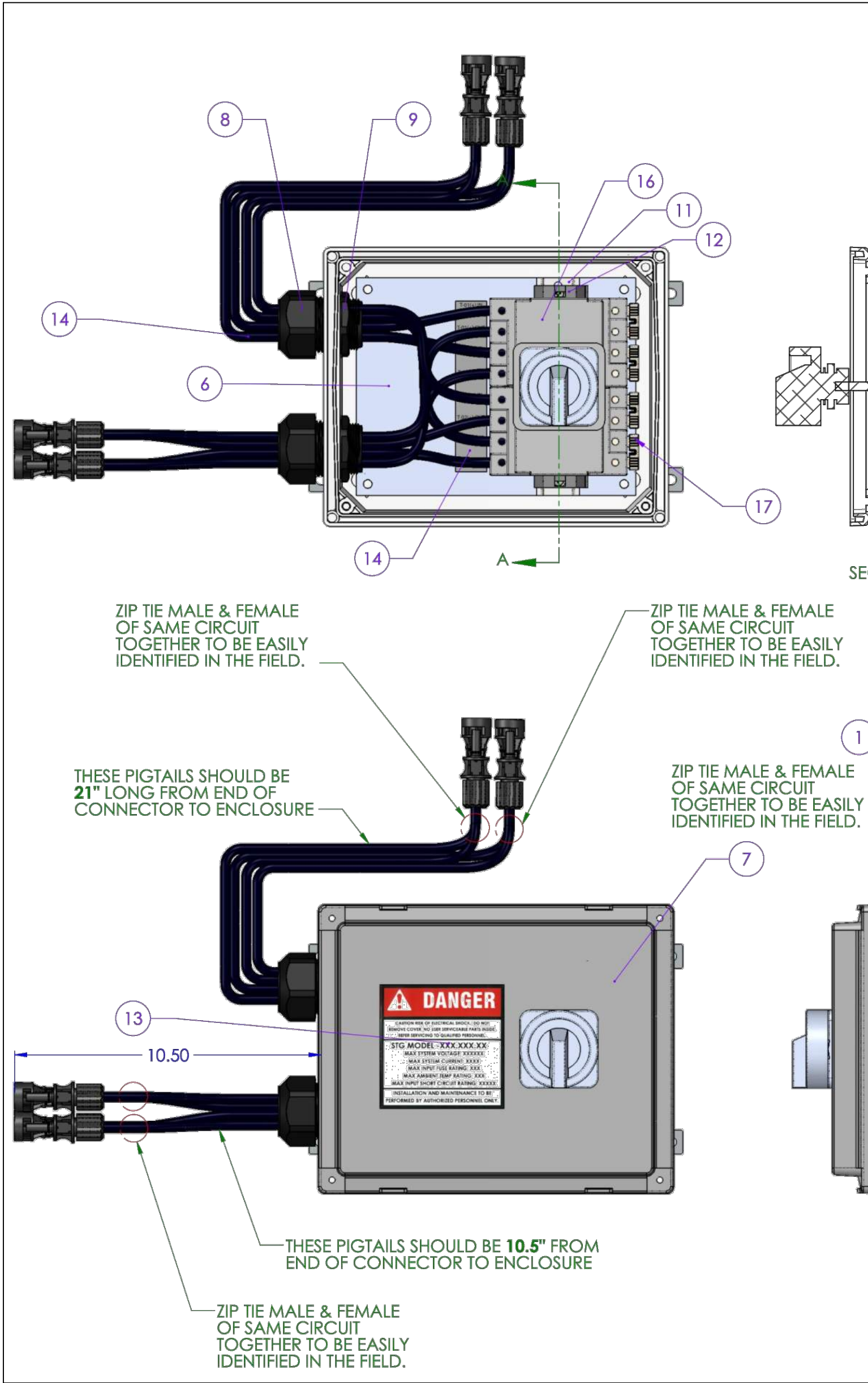
2393 VIA MARIPOSA WEST
STRING LAYOUT

SunPower® | Helix Roof Solution

HELIX ROOF Power Station



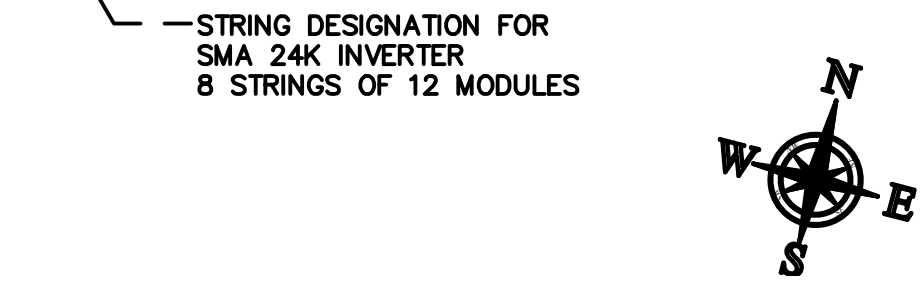
DC Branch	
Model	Helix plug-and-play DC Branch
String input options	2, 3, and 4 string
String fuse rating	15 A
Conductor size	#12 to #8 AWG
Conductor insulation rating	Sunlight-resistant PV Wire
Voltage rating	2000 VDC
Fusing	12 A
Connectors	String side: Tyco PV4 Solarlock Combined side: Amphenol H4-UTX-XL



LEGEND:

---> STRINGS

----- INVERTER DESIGNATION



1 STRING LAYOUT
SCALE: 3/32"=1'-0"

PROJECT SITE

THIRD MUTUAL
LAGUNA WOODS VILLAGES

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LAGUNA WOODS, CA 92637

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SHEET TITLE

STRING LAYOUT

SHEET NUMBER

S1.1 ST

WARNING: PHOTOVOLTAIC
POWER SOURCE

LABEL "PHOTOVOLTAIC POWER SOURCE" SHALL BE PERMANENTLY AFFIXED ON ALL EXPOSED RACEWAYS, CABLE TRAYS, PULL BOXES, AND JUNCTION BOXES. LABELS SHALL BE SPACED NO GREATER THAN 10 FEET APART AND SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.



WARNING

ARC FLASH AND SHOCK HAZARD

APPROPRIATE PPE AND TOOLS REQUIRED
WHEN WORKING ON THIS EQUIPMENT

OUTDOOR RATED ARC FLASH STICKER MOUNTED ON ALL EQUIPMENT

NOTES:
1. ORANGE BACKGROUND
2. BLACK LETTERING
3. MINIMUM 3/8" LETTER HEIGHT
4. ALL CAPITAL LETTERS
5. ARIAL OR SIMILAR FONT, NON-BOLD
6. WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT

INVERTER 1: 24kW

WARNING: ELECTRIC SHOCK HAZARD

THE DC CONDUCTORS OF THIS PHOTOVOLTAIC ARRAY ARE UNGROUNDED AND MAY BE ENERGIZED

DC DISCONNECT

AC DISCONNECT

OPERATING CURRENT: 29.6 A
OPERATING VOLTAGE: 748.2 V
MAXIMUM CURRENT: 32.2 A
MAXIMUM VOLTAGE: 887.8 V

MAXIMUM AC 36.25 A
OPERATING CURRENT: 29 A
NOMINAL AC 480 V
OPERATING VOLTAGE: 480 V

INVERTER 2: 24kW

WARNING: ELECTRIC SHOCK HAZARD

THE DC CONDUCTORS OF THIS PHOTOVOLTAIC ARRAY ARE UNGROUNDED AND MAY BE ENERGIZED

DC DISCONNECT

AC DISCONNECT

OPERATING CURRENT: 29.6 A
OPERATING VOLTAGE: 748.2 V
MAXIMUM CURRENT: 32.2 A
MAXIMUM VOLTAGE: 887.8 V

MAXIMUM AC 36.25 A
OPERATING CURRENT: 29 A
NOMINAL AC 480 V
OPERATING VOLTAGE: 480 V

INVERTER 3: 12kW

WARNING: ELECTRIC SHOCK HAZARD

THE DC CONDUCTORS OF THIS PHOTOVOLTAIC ARRAY ARE UNGROUNDED AND MAY BE ENERGIZED

DC DISCONNECT

AC DISCONNECT

OPERATING CURRENT: 14.8 A
OPERATING VOLTAGE: 748.2 V
MAXIMUM CURRENT: 16.1 A
MAXIMUM VOLTAGE: 887.8 V

MAXIMUM AC 18.75 A
OPERATING CURRENT: 14.4 A
NOMINAL AC 480 V
OPERATING VOLTAGE: 480 V

WARNING!
INVERTER OUTPUT CONNECTION
DO NOT RELOCATE THIS
OVERCURRENT DEVICE

MARKING FOR MAIN SERVICE

PHOTOVOLTAIC POWER SOURCE

OPERATING AC VOLTAGE: 277/480 V
MAXIMUM OPERATING AC OUTPUT
CURRENT: 90.5 AMPS

MARKING FOR MAIN PANEL COVER

CAUTION:
SOLAR ELECTRIC
SYSTEM CONNECTED

MARKING FOR MAIN SERVICE

SOLAR GENERATOR
AC DISCONNECT SWITCH

WARNING: ELECTRIC SHOCK HAZARD

DO NOT TOUCH TERMINALS.
TERMINALS ON BOTH LINE &
LOAD SIDE MAY BE ENERGIZED
IN THE OPEN POSITION.

OPERATING CURRENT: 90.5 A
OPERATING VOLTAGE: 480 V

SOLAR AC
COMBINER BOX -
PANELBOARD

WARNING: ELECTRIC SHOCK HAZARD

DO NOT TOUCH TERMINALS.
TERMINALS ON BOTH LINE &
LOAD SIDE MAY BE ENERGIZED
IN THE OPEN POSITION.

OPERATING CURRENT: 90.5 A
OPERATING VOLTAGE: 480 V

CAUTION:
EMERGENCY AC
SOLAR DISCONNECT
RAPID SHUTDOWN SYSTEM
IS LOCATED AT THE
AC COMBINER BOX ON THE ROOF
"YOU MUST TURN OFF ALL
INVERTER BREAKERS"

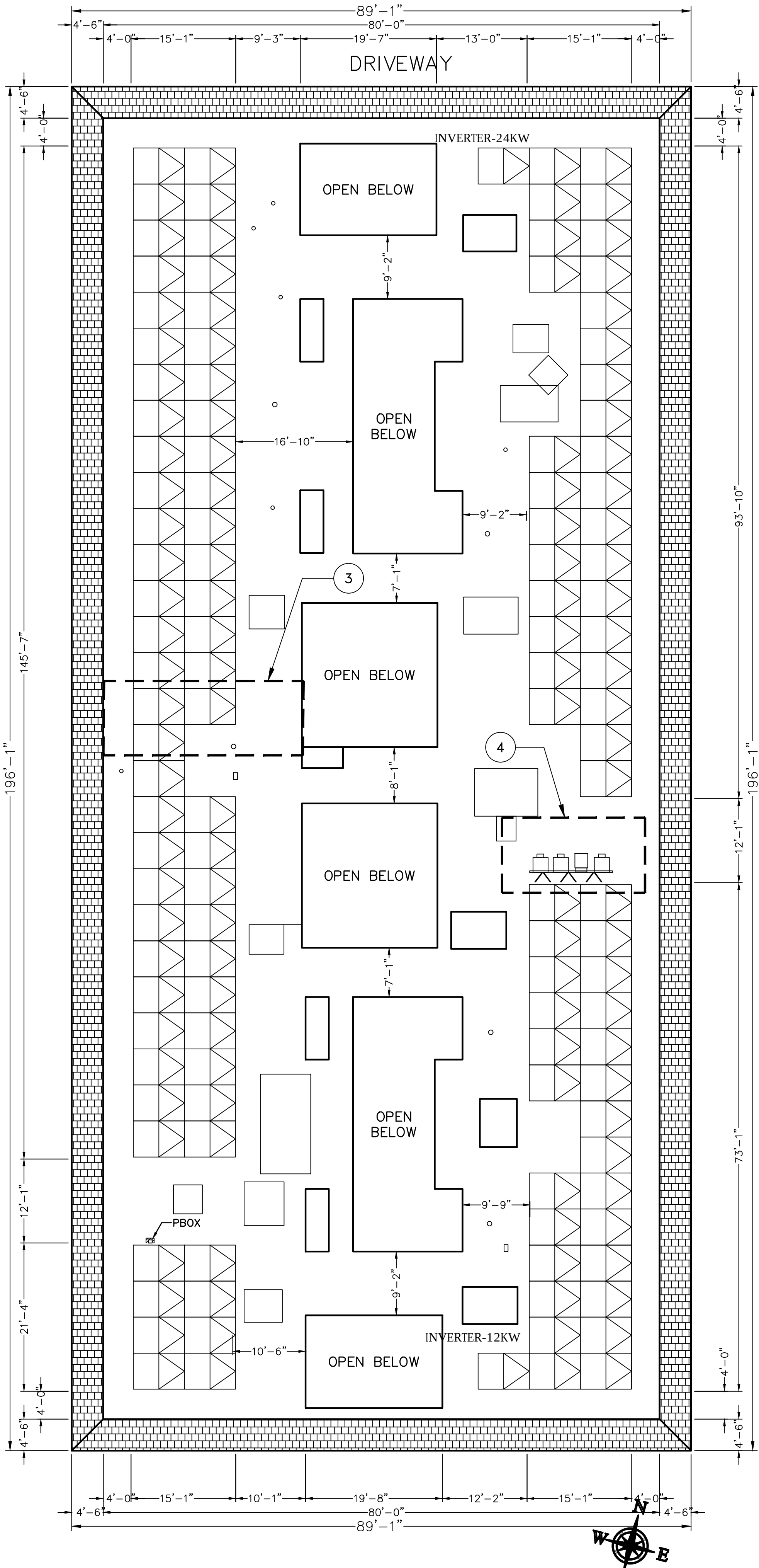
MARKING FOR MAIN SERVICE AND AC COMBINER

NOTES:
1. LETTERING ON SIGNS SHALL BE CAPITAL LETTERS, MINIMUM SIZE OF 1/8" HIGH. LETTERING SHALL BE REFLECTIVE RED ON WHITE BACKGROUND OR VICE VERSA.
2. CLEARLY LABEL ALL CIRCUIT BREAKERS IN THE PANELBOARD. THE LABEL SHALL INDICATE THE NAME OF THE DEVICE IT SERVES.

2393 VIA MARIPOSA WEST SITE PLAN

NOTES:

1. ROOF PERIMETER FIRE CLEARANCE: MIN 4'-0".
2. FIRE CLEARANCE AROUND SKYLIGHT: MIN 4'-0".
3. FIRE CLEARANCE AROUND OPENINGS: MIN 4'-0".
4. ROOF HEIGHT: 40'-0" APPROXIMATE.
5. ROOF PITCH: 0°
6. CONDUIT TO PENETRATE ROOF AND ENTER THIRD FLOOR LAUNDRY ROOM. CONDUIT RUN WILL CONTINUE DOWN ALONG SIDE THE TRASH SHOOT FINALLY ENTERING TRASH CLOSET AT GROUND LEVEL. CONDUIT WILL THEN PENETRATE WALL INSIDE OF TRASH CLOSET AND TERMINATE AT PV AC DISCONNECT ON OPPOSITE SIDE OF WALL, USE ADEQUATE SLEEVE TO PROTECT CONDUIT FROM ELEMENTS.



2 ARRAY LAYOUT
SCALE: 3/32"=1'-0"

PROJECT SITE

THIRD MUTUAL
LAGUNA WOODS VILLAGES

24351 EL TORO RD.
LAGUNA WOODS, CA 92637

PROJECT DEVELOPER



SOLAR OPTIMUM, INC
501 WEST GLENOAKS BLVD.
GLENDALE, CA 91202
800-552-9970
WWW.SOLAROPTIMUM.COM
LICENSE NUMBER 972228 C10

CONTRACTOR



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SIGNATURE



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	12/14/16	AS BUILT

DRAWN BY: SCOTT
CHECKED BY: T.T.T.
SCALE: AS SHOWN
DATE: 12/22/16

SHEET TITLE

LABELS

SHEET NUMBER

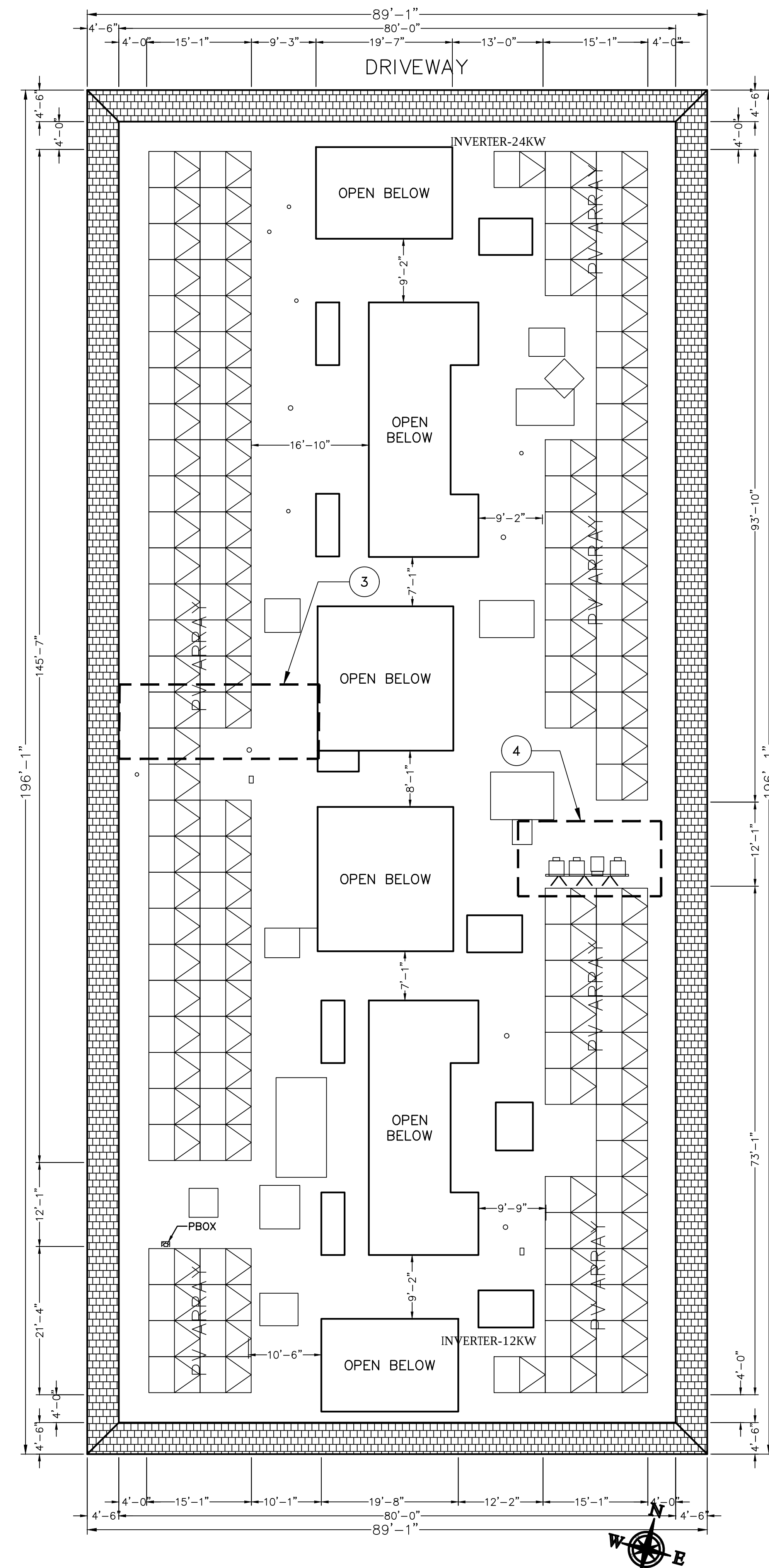
S1L

CAUTION

TRASH CLOSET

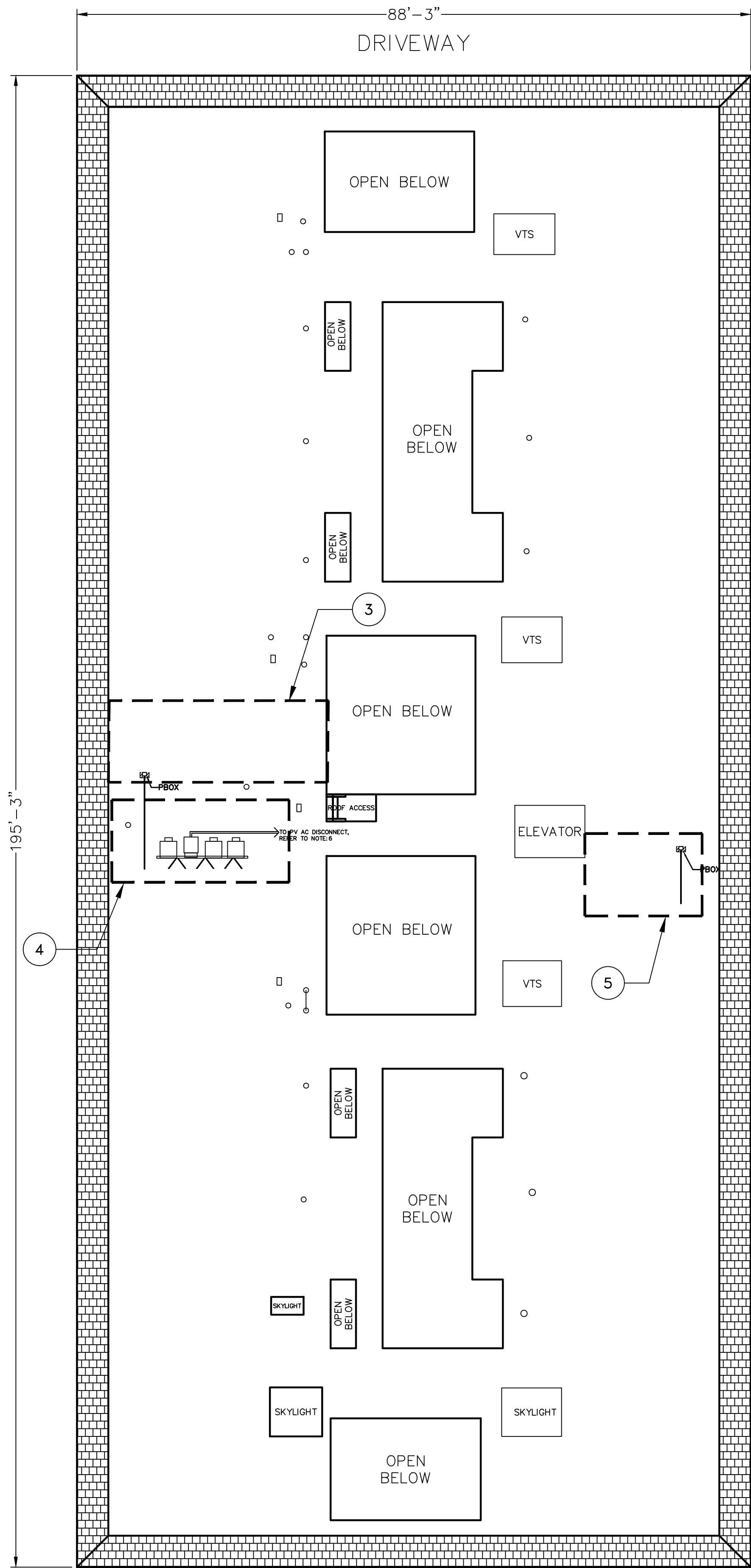
MAIN 100A ———
AC DISCONNECT

(E) SINGLE
PHASE MSP



2 ARRAY LAYOUT
SCALE: 3/32"=1'-0"

DIRECTORY MAP

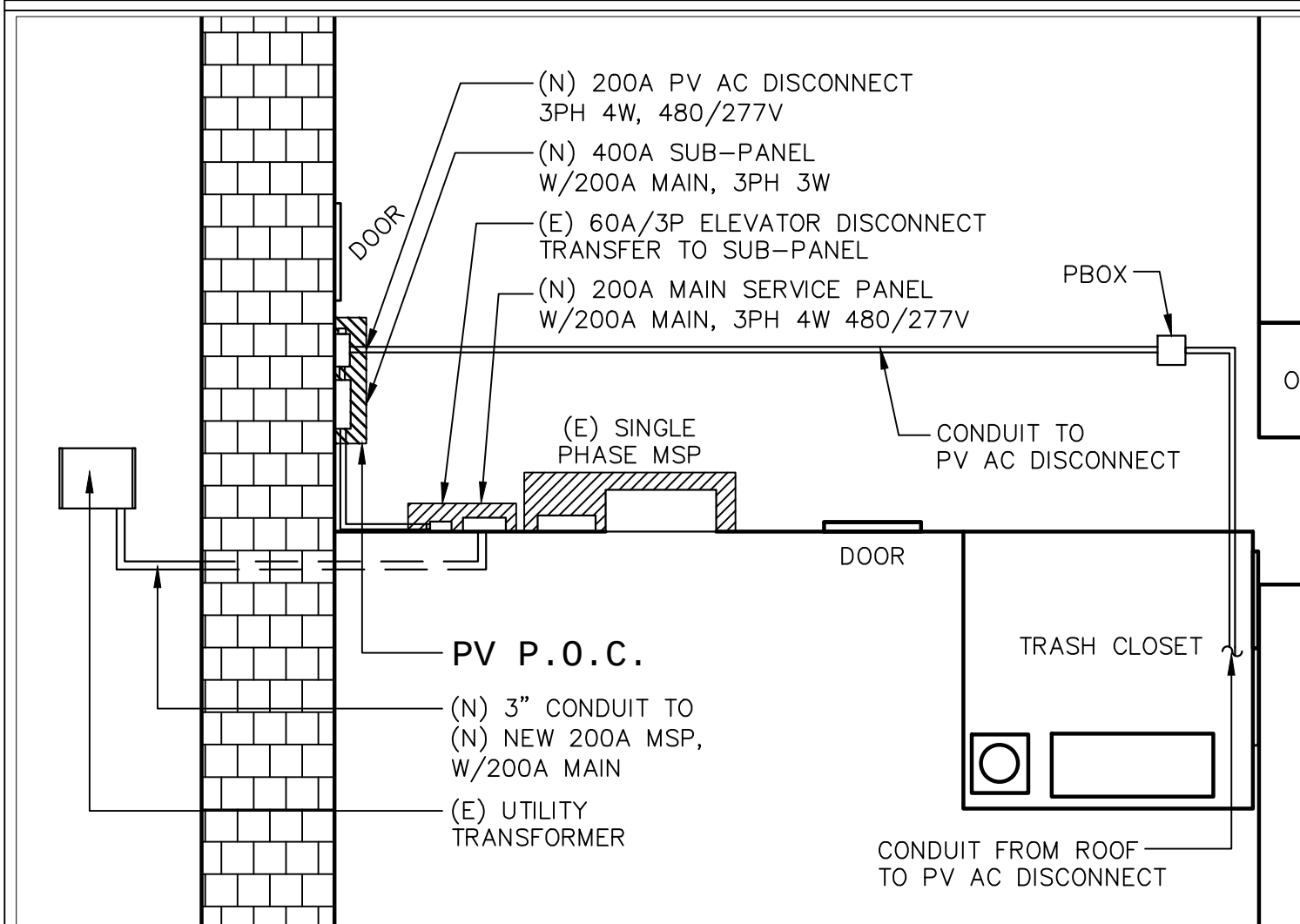


1 BUILDING LAYOUT
SCALE: 3/32"=1'-0"

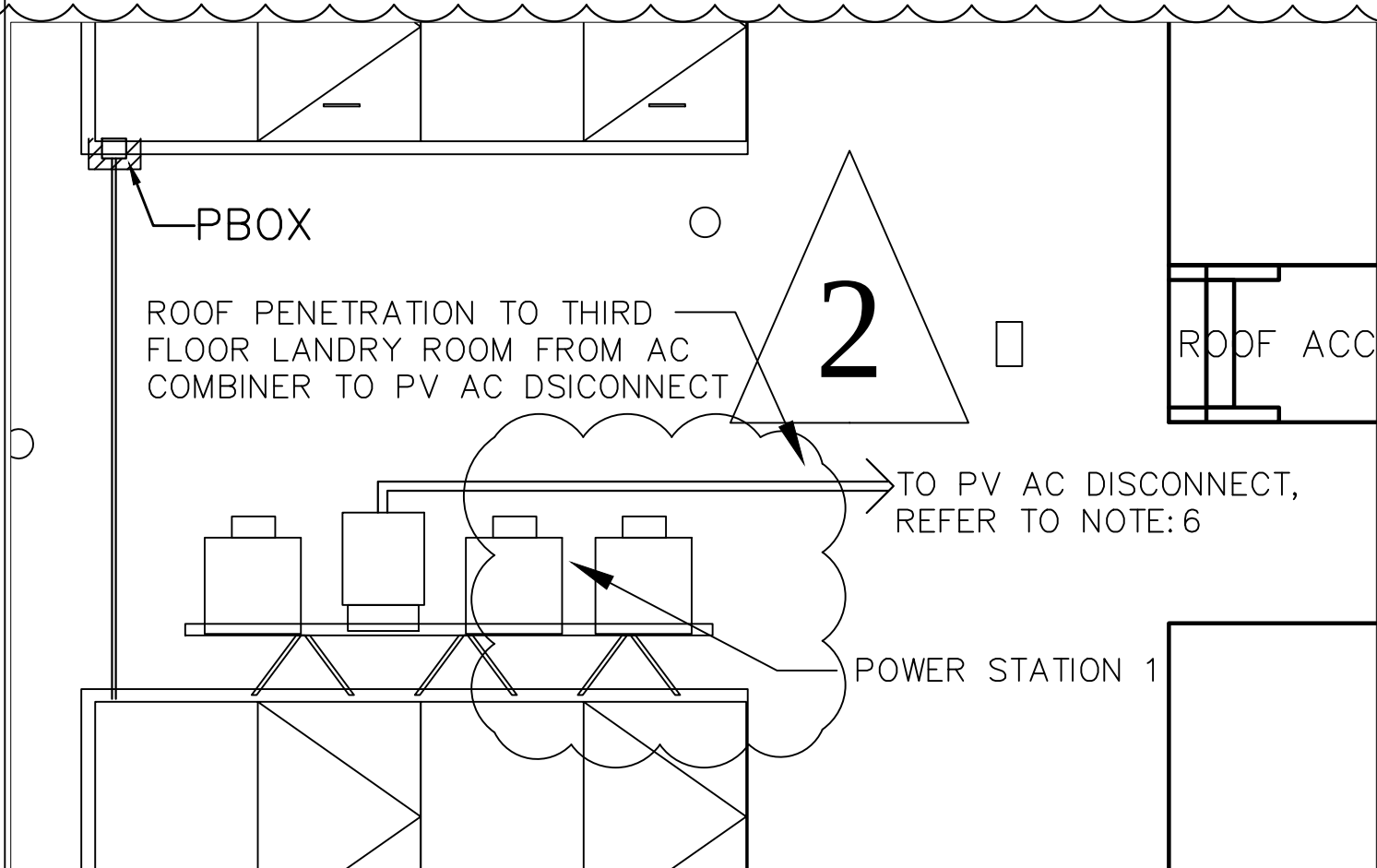
2394 VIA MARIPOSA WEST VILLA CAPRI SITE PLAN

NOTES:

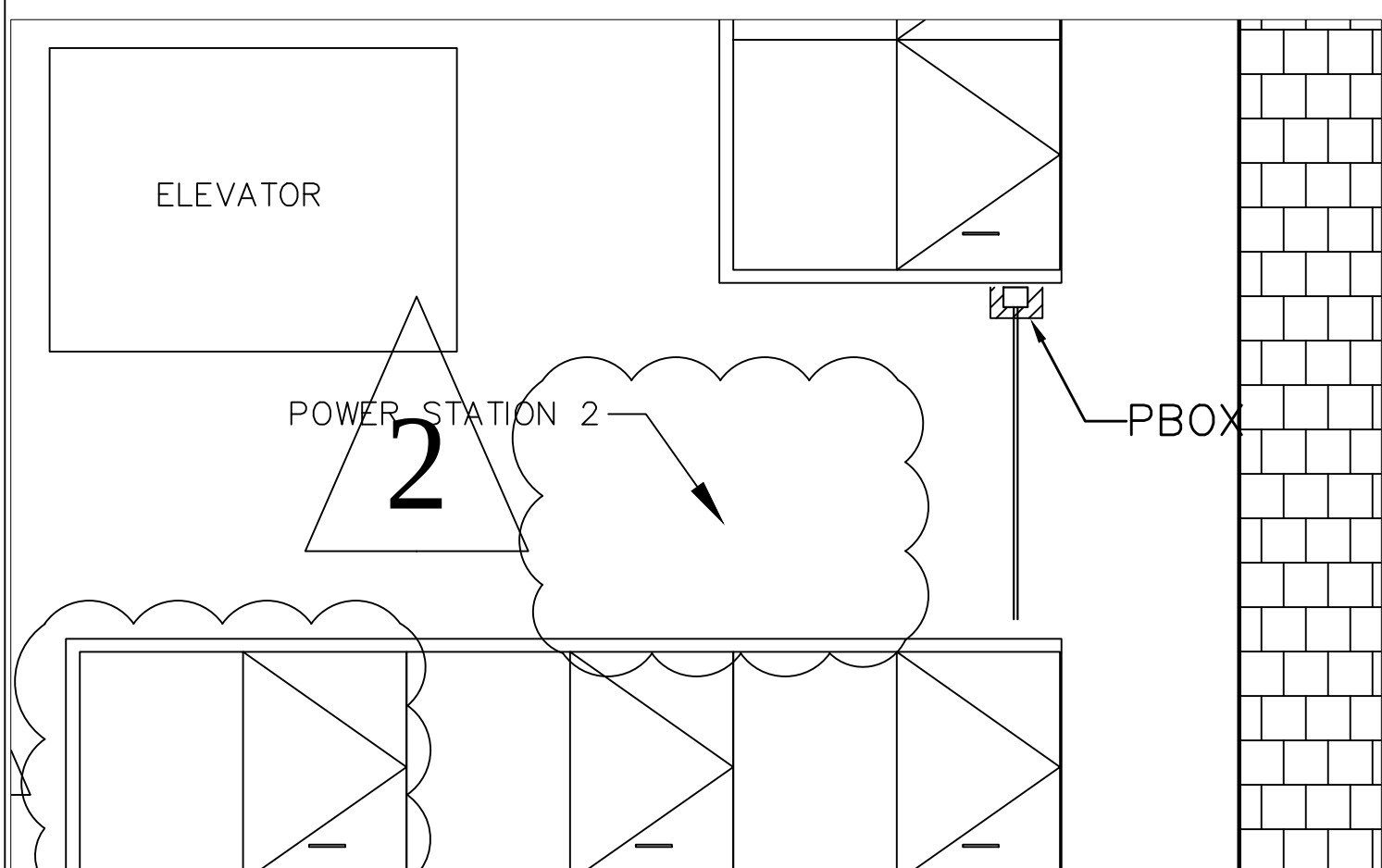
1. ROOF PERIMETER FIRE CLEARANCE: MIN 4'-0".
2. FIRE CLEARANCE AROUND SKYLIGHT: MIN 4'-0".
3. FIRE CLEARANCE AROUND OPENINGS: MIN 4'-0".
4. ROOF HEIGHT: 40'-0" APPROXIMATE.
5. ROOF PITCH: 0°
6. CONDUIT TO PENETRATE ROOF AND ENTER THIRD FLOOR LAUNDRY ROOM. CONDUIT RUN WILL CONTINUE DOWN ALONG SIDE THE TRASH SHOOT FINALLY ENTERING TRASH CLOSET AT GROUND LEVEL. CONDUIT WILL THEN PENETRATE WALL INSIDE OF TRASH CLOSET AND TERMINATE AT PV AC DISCONNECT ON OPPOSITE SIDE OF WALL, USE ADEQUATE SLEEVE TO PROTECT CONDUIT FROM ELEMENTS.



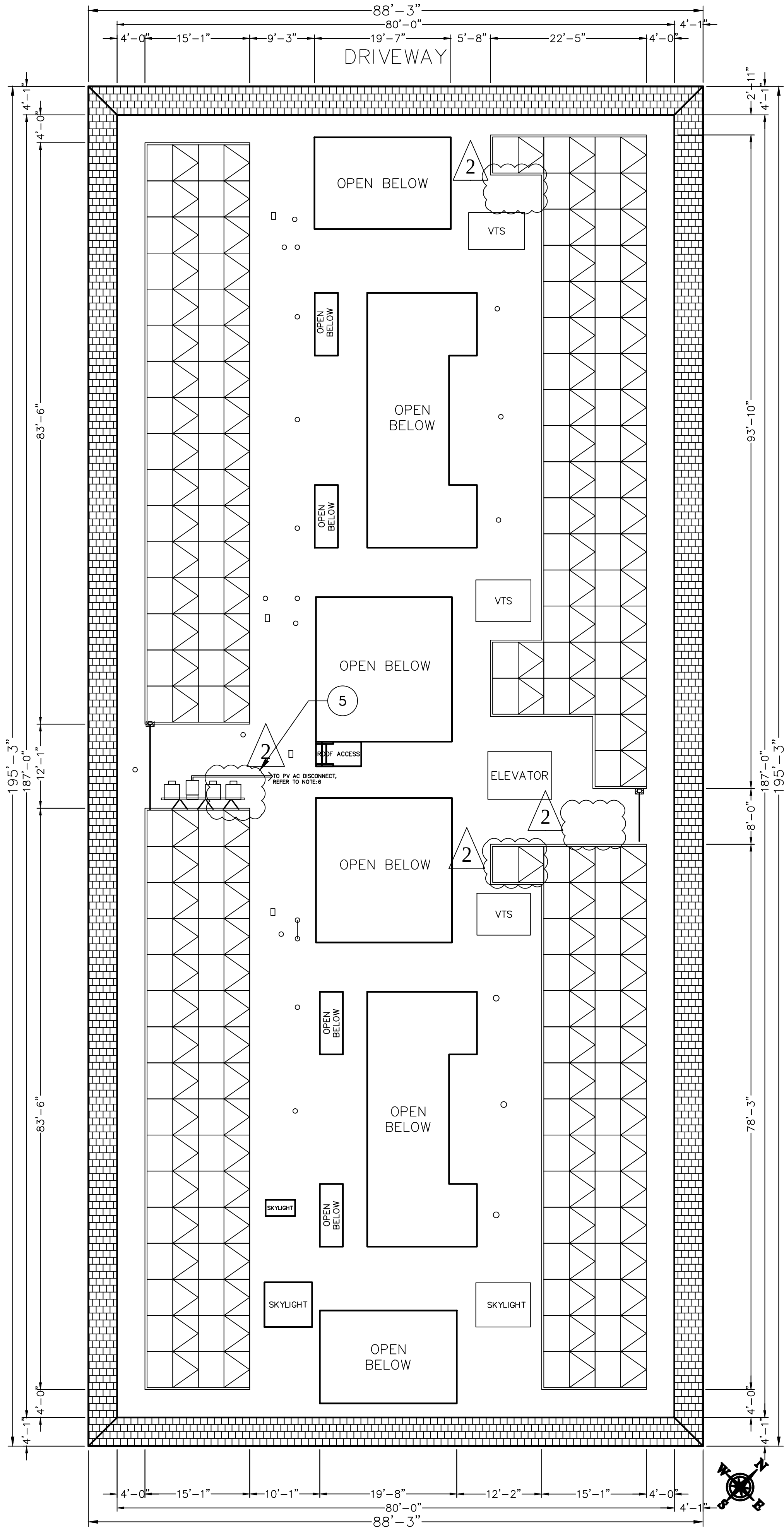
3 MAIN PANEL LOCATION 1ST FLOOR
SCALE: N.T.S.



4 POWER STATION LOCATION ROOF
SCALE: N.T.S.



5 POWER STATION 2 LOCATION ROOF
SCALE: N.T.S.



2 ARRAY LAYOUT
SCALE: 3/32"=1'-0"

PROJECT SITE

THIRD MUTUAL
LAGUNA WOODS VILLAGES

24351 EL TORO RD.
LAGUNA WOODS, CA 92637

PROJECT DEVELOPER



SOLAR OPTIMUM, INC
501 WEST GLENOAKS BLVD.
GLENDALE, CA 91202
800-552-9970
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CONTRACTOR



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CHECKED BY: T.T.T.
SCALE: AS SHOWN
DATE: 12/21/16

SHEET TITLE

SITE PLAN
2394 VIA MARIPOSA
WEST VILLA CAPRI

SHEET NUMBER

S1.1

2394 VIA MARIPOSA WEST
BALLAST AND PENETRATION PLAN

WIND LOAD SUMMARY						
OUTPUTS			WIND ZONES			
PANEL TYPES	ATTRIBUTES	A	B	C	D	E
1	Ballast Block(s)	5	0	12	5	0
	Wind Anchor(s)	1	1	0	0	0
	Pressure (psf)	4.21	2.40	6.84	4.21	2.40
2	Ballast Block(s)	0	0	9	3	0
	Wind Anchor(s)	1	1	0	0	0
	Pressure (psf)	2.40	2.40	5.71	3.49	2.40
3	Ballast Block(s)	0	0	9	3	0
	Wind Anchor(s)	1	1	0	0	0
	Pressure (psf)	2.26	2.26	5.58	3.34	2.26
4	Ballast Block(s)	0	9	3	0	0
	Wind Anchor(s)	1	0	0	0	0
	Pressure (psf)	2.26	5.58	3.34	2.26	2.26
Minimum Array Size by Zone (Tents)		18	15	16	17	6
L _B – BUILDING SCALING FACTOR (FT)		K _Z – SITE WIND PRESSURE FACTOR				
35.35		0.85				

INVERTER SUMMARY TABLE				
ROOF	MODULES	INVERTER TYPE	INVERTER QTY	STRING CONFIGURATION
1	192	24KW	2	MPPT 1: 12 MODULES, 4 STRING
				MPPT 2: 12 MODULES, 4 STRING
	72	20KW	1	MPPT 1: 12 MODULES, 3 STRING
				MPPT 2: 12 MODULES, 3 STRING
TOTAL	264		3	

BALLAST AND ANCHOR SUMMARY					
ROOF	BALLAST COUNT	ANCHOR COUNT	ARRAY WEIGHT (LBS)	MAX. PSF	AVERAGE PSF
1	54	131	12,366	5.58	2.43
TOTAL	54	131			

NOTES:

- EXISTING TRUSSES TYPICAL: 2" X 4" @ 24" O.C.
- MAXIMUM 8PSF FOR BALLAST SYSTEM.

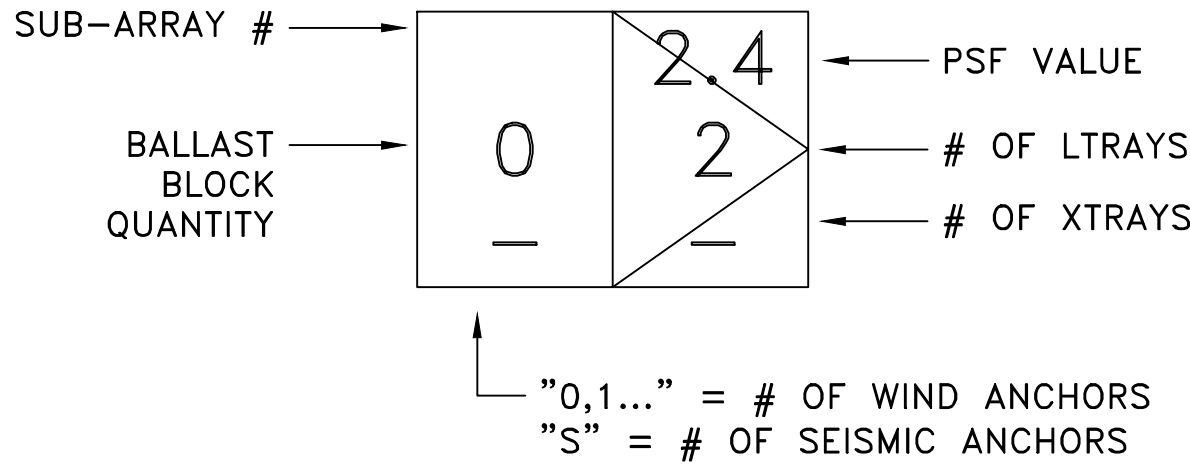
SITE CHARACTERIZATION			
BUILDING HEIGHT (ft)	40	BUILDING WIDTH (ft)	88.25
BUILDING LENGTH (ft)	195.25	PARAPET HEIGHT (ft)	0.3333
WIND SPEED (ASCE7-10) (mph)	130	EXPOSURE CATEGORY	B TO C
EXPOSURE TRANSITION DISTANCE (ft)	1212	BALLAST BLOCK WEIGHT (lbs)	14
MAX ALLOWABLE SYSTEM PRESSURE (psf)	8	ANCHOR TYPE	OMG POWERGRIP PLUS
DESIGN SPECTRAL RESPONSE ACCELERATION (S _{DS}) (g)	0.993	SEISMIC IMPORTANCE FACTOR (I _p)	1

PROPOSED SYSTEM SPECIFICATION

TOTALS:
86.328 kWp
264 HIGH EFF. (327W) MODULES
12 MODULES/STRING, 22 STRINGS
ROOF HEIGHT: 40'
ROOF PITCH: 0°

NOTES:

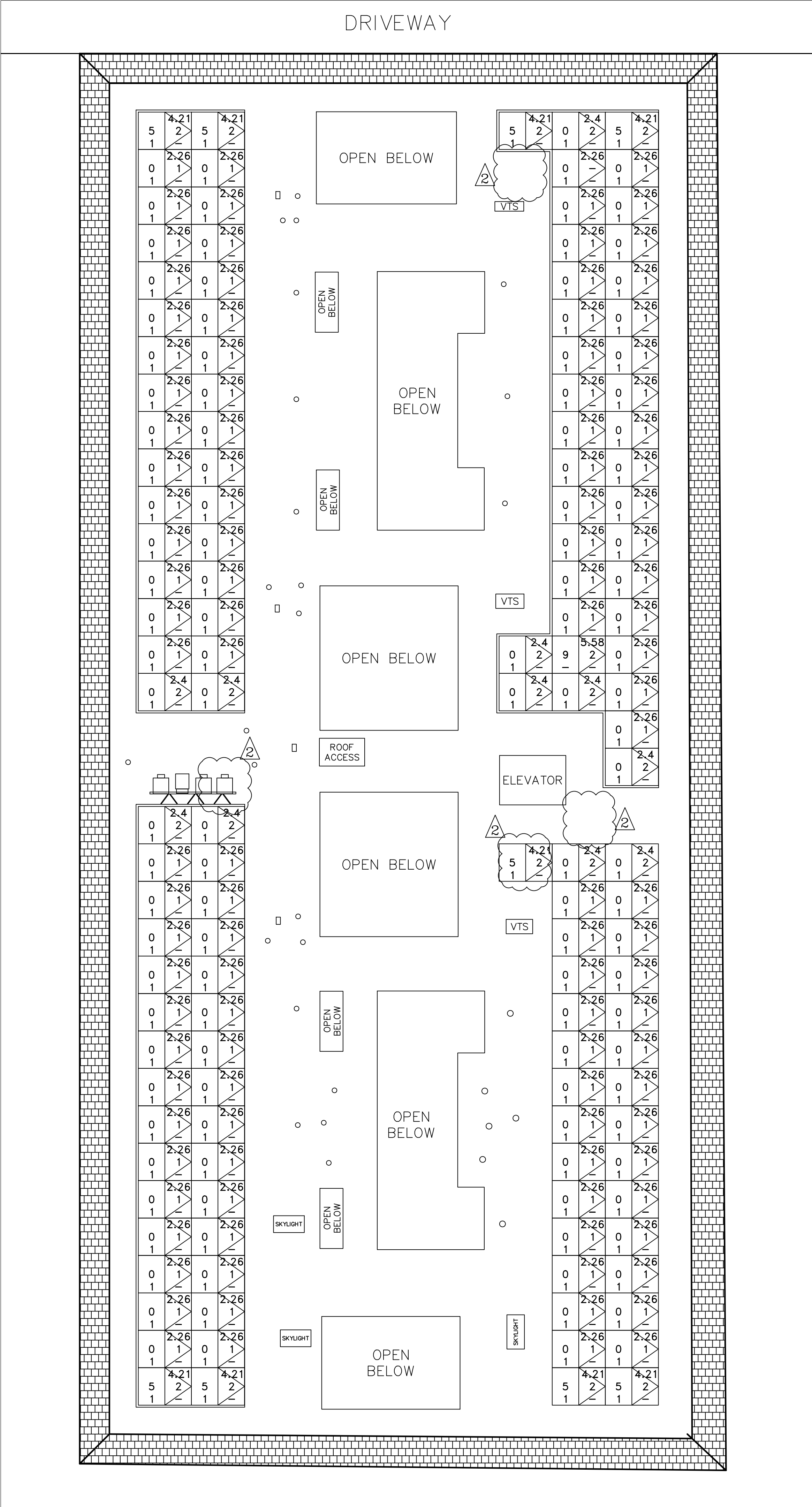
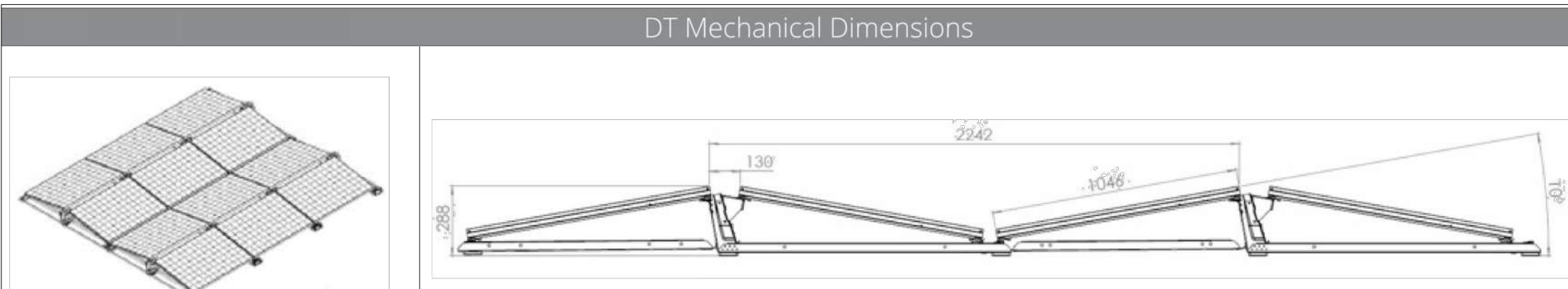
- SUBARRAYS THAT DID NOT MEET THE REQUIRED MINIMUM ARRAY SIZE WILL REQUIRE ADDITIONAL ANCHORING. PLEASE CONSULT STRUCTURAL ENGINEERING.
- ADDITIONAL ANCHORS REQUIRED PER SUBARRAY FOR LATERAL LOADS.
N/A
- ADDITIONAL ANCHORS CAN BE PLACED ANYWHERE WITHIN THE SUBARRAY.



LEGEND
SCALE: N.T.S.



Tilt angle	10 degrees
Module compatibility	SPR-E20-327-COM (327 W DC)*
Ground coverage ratio (GCR)	0.91 0.67
Base system weight	9.3 kg/m² (1.9 psf) 12.2 kg/m² (2.5 psf)
Maximum ballast capacity	58.6 kg/m² (12 psf)
Warranty	25 years
Certifications	UL 2703 (pending)
Wind tunnel testing	ASCE 7-10 and SEAOC PV2 compliant
Material (structure)	5052 H32 aluminum and 301 stainless steel
Material (foot pad)	Recycled rubber (92% approx.), polyurethane binder (8% approx.)
Compatible roof anchors	EcoFasten Solar® Eco-65/F-202, OMG PowerGrip®, OMG PowerGrip Plus®



1 BALLAST AND PENETRATION LAYOUT
SCALE: N.T.S.

PROJECT SITE

THIRD MUTUAL
LAGUNA WOODS VILLAGES

24351 EL TORO RD.
LAGUNA WOODS, CA 92637

PROJECT DEVELOPER


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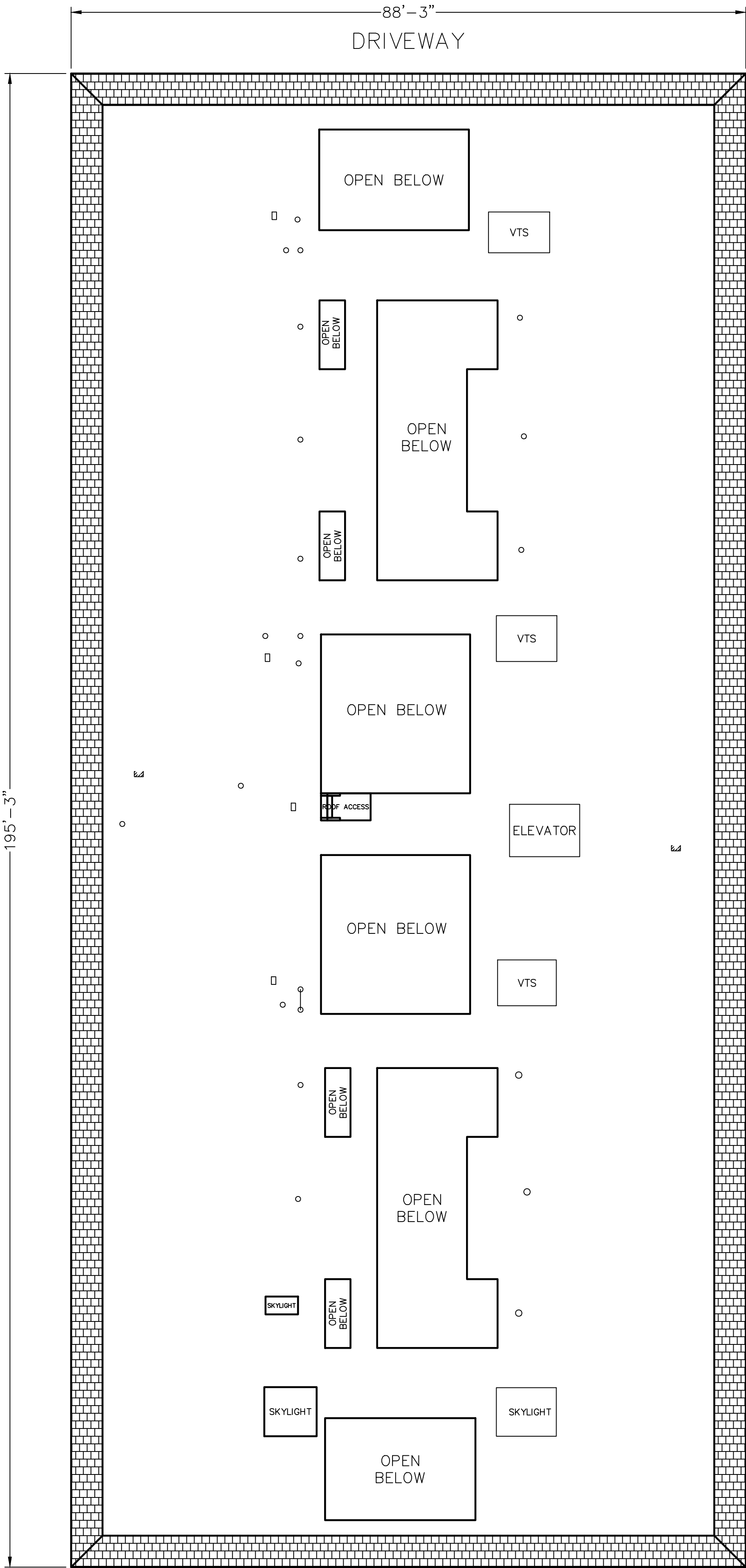
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SHEET TITLE

BALLAST AND PENETRATION
SITE PLAN
2394 VIA MARIPOSA
WEST VILLA CAPRI

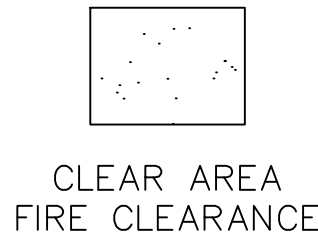
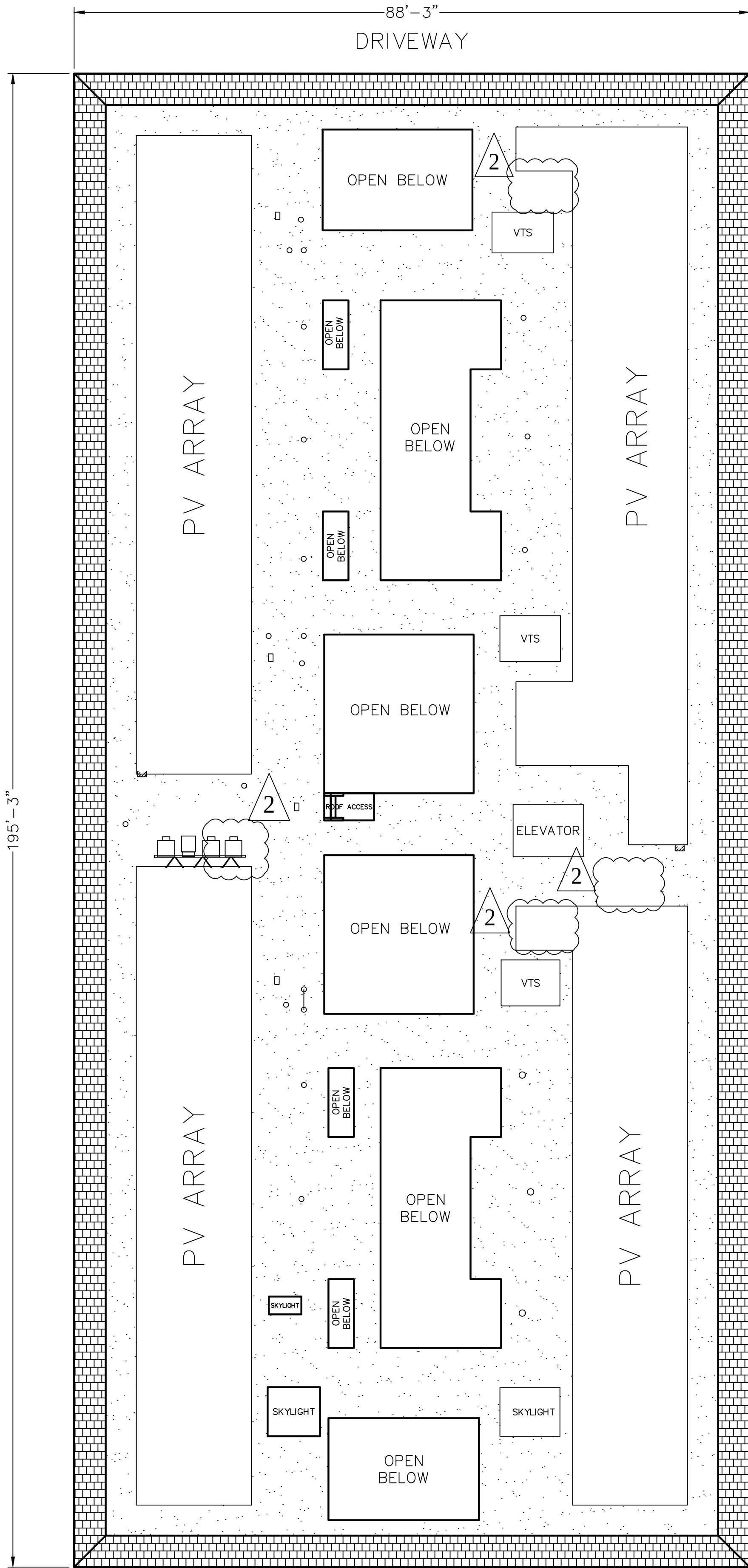
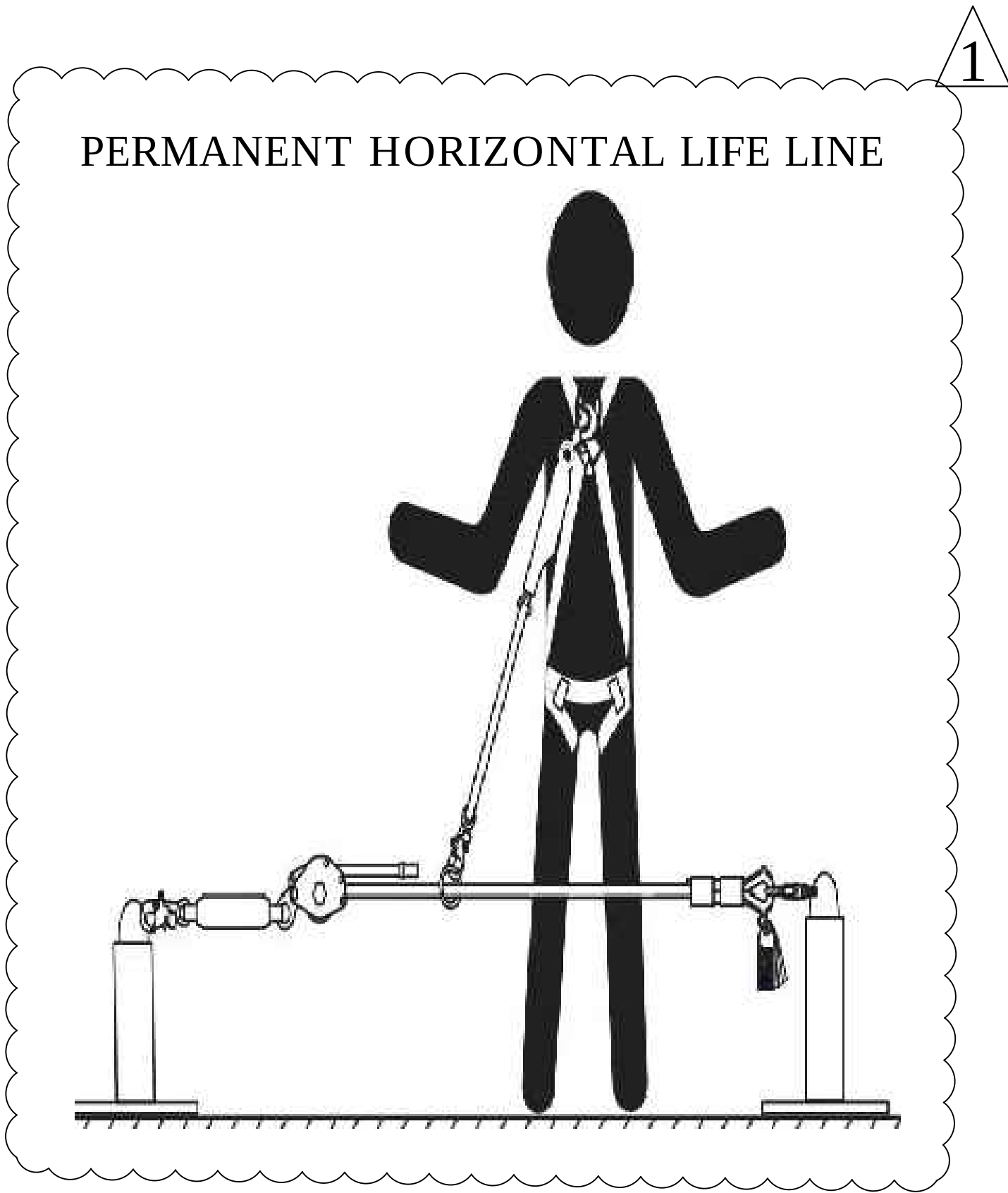
SHEET NUMBER

STR 1.1



1 BUILDING LAYOUT
SCALE: 1"=10'-0"

2394 VIA MARIPOSA
WEST VILLA CAPRI
FIRE CLEARANCE SITE PLAN



2 ARRAY LAYOUT
SCALE: 1"=10'-0"

PROJECT SITE

THIRD MUTUAL
LAGUNA WOODS VILLAGES

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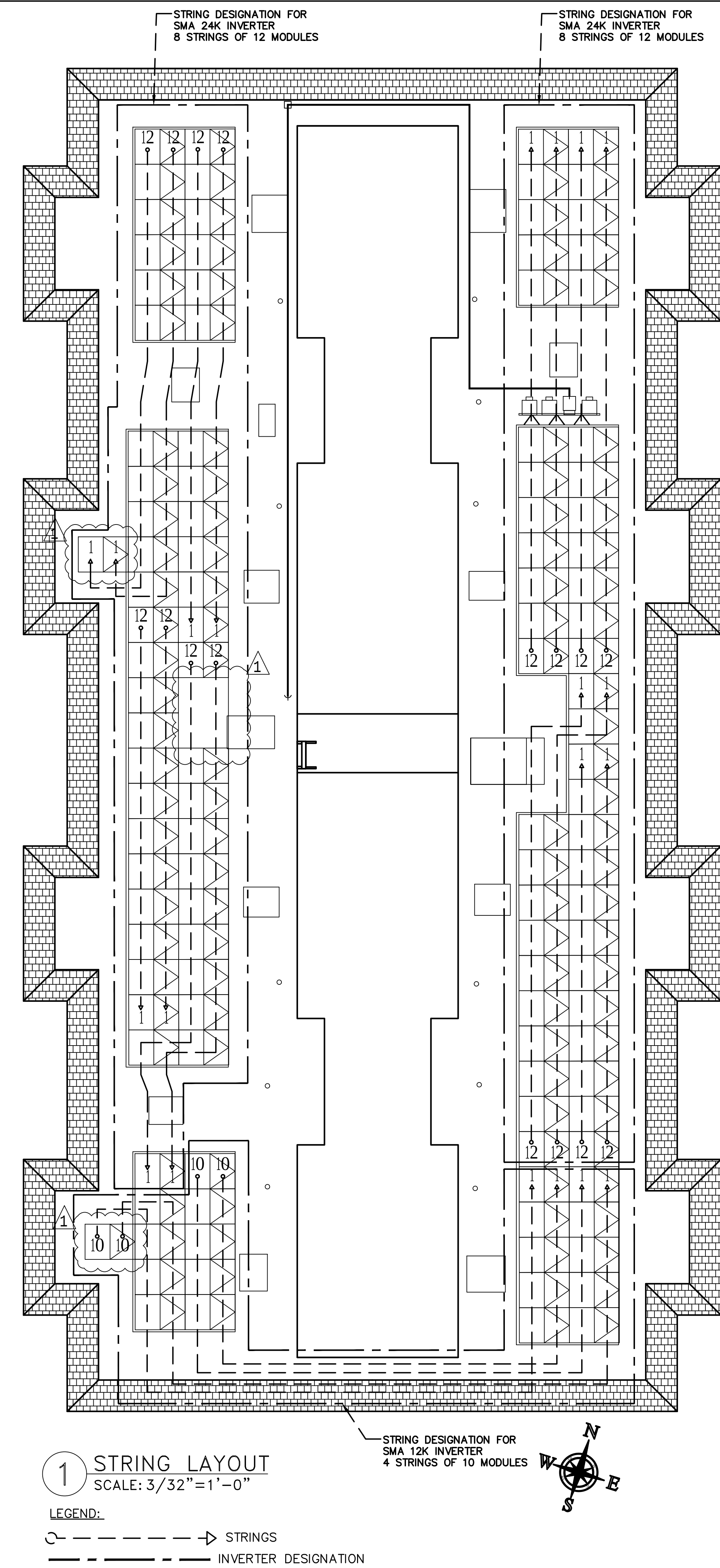
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SHEET TITLE
FIRE CLEARANCE
SITE PLAN
2394 VIA MARIPOSA
WEST VILLA CAPRI
SHEET NUMBER

S 1.1F

SunPower® Helix Roof Solution																
HELIIX ROOF Power Station																
	DC Branch															
	<table> <tr> <td>Model</td><td>Helix plug-and-play DC Branch</td></tr> <tr> <td>String input options</td><td>2, 3, and 4 string</td></tr> <tr> <td>String fuse rating</td><td>15 A</td></tr> <tr> <td>Conductor size</td><td>#12 to #8 AWG</td></tr> <tr> <td>Conductor insulation rating</td><td>Sunlight-resistant PV Wire</td></tr> <tr> <td>Voltage rating</td><td>2000 VDC</td></tr> <tr> <td>Fusing</td><td>12 A</td></tr> <tr> <td>Connectors</td><td>String side: Tyco PV4 Solarlock Combined side: Amphenol H4-UTX-XL</td></tr> </table>	Model	Helix plug-and-play DC Branch	String input options	2, 3, and 4 string	String fuse rating	15 A	Conductor size	#12 to #8 AWG	Conductor insulation rating	Sunlight-resistant PV Wire	Voltage rating	2000 VDC	Fusing	12 A	Connectors
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Voltage rating	2000 VDC															
Fusing	12 A															
Connectors	String side: Tyco PV4 Solarlock Combined side: Amphenol H4-UTX-XL															



S 1.1 ST

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**WARNING**

ARC FLASH AND SHOCK HAZARD
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WHEN WORKING ON THIS EQUIPMENT

OUTDOOR RATED ARC FLASH STICKER MOUNTED ON ALL EQUIPMENT

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1. ORANGE BACKGROUND
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5. ARIAL OR SIMILAR FONT, NON-BOLD
6. WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT

INVERTER 1: 24kW

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AC DISCONNECT

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OPERATING VOLTAGE: 748.2 V
MAXIMUM CURRENT: 32.2 A
MAXIMUM VOLTAGE: 887.8 V

MAXCIMUM AC
OPERATING CURRENT: 29 A
NOMINAL AC
OPERATING VOLTAGE: 480 V

INVERTER 2: 24kW

WARNING: ELECTRIC SHOCK HAZARD

THE DC CONDUCTORS OF THIS PHOTOVOLTAIC ARRAY ARE UNGROUNDED AND MAY BE ENERGIZED

DC DISCONNECT

AC DISCONNECT

OPERATING CURRENT: 29.6 A
OPERATING VOLTAGE: 748.2 V
MAXIMUM CURRENT: 32.2 A
MAXIMUM VOLTAGE: 887.8 V

MAXCIMUM AC
OPERATING CURRENT: 29 A
NOMINAL AC
OPERATING VOLTAGE: 480 V

INVERTER 3: 12kW

WARNING: ELECTRIC SHOCK HAZARD

THE DC CONDUCTORS OF THIS PHOTOVOLTAIC ARRAY ARE UNGROUNDED AND MAY BE ENERGIZED

DC DISCONNECT

AC DISCONNECT

OPERATING CURRENT: 14.8 A
OPERATING VOLTAGE: 623.5 V
MAXIMUM CURRENT: 16.1 A
MAXIMUM VOLTAGE: 739.8 V

MAXCIMUM AC
OPERATING CURRENT: 14.4 A
NOMINAL AC
OPERATING VOLTAGE: 480 V

WARNING!

INVERTER OUTPUT CONNECTION
DO NOT RELOCATE THIS
OVERCURRENT DEVICE

PHOTOVOLTAIC POWER SOURCE

OPERATING AC VOLTAGE: 277/480 V
MAXIMUM OPERATING AC OUTPUT
CURRENT: 90.5 AMPS

CAUTION:
SOLAR ELECTRIC
SYSTEM CONNECTED

MARKING FOR MAIN SERVICE

SOLAR GENERATOR
AC DISCONNECT SWITCH

WARNING: ELECTRIC SHOCK HAZARD

DO NOT TOUCH TERMINALS.
TERMINALS ON BOTH LINE &
LOAD SIDE MAY BE ENERGIZED
IN THE OPEN POSITION.

OPERATING CURRENT: 90.5 A
OPERATING VOLTAGE: 480 V

SOLAR AC
COMBINER BOX -
PANELBOARD

WARNING: ELECTRIC SHOCK HAZARD

DO NOT TOUCH TERMINALS.
TERMINALS ON BOTH LINE &
LOAD SIDE MAY BE ENERGIZED
IN THE OPEN POSITION.

OPERATING CURRENT: 90.5 A
OPERATING VOLTAGE: 480 V

CAUTION:
EMERGENCY AC
SOLAR DISCONNECT
RAPID SHUTDOWN SYSTEM
IS LOCATED AT THE
AC COMBINER BOX ON THE ROOF
"YOU MUST TURN OFF ALL
INVERTER BREAKERS"

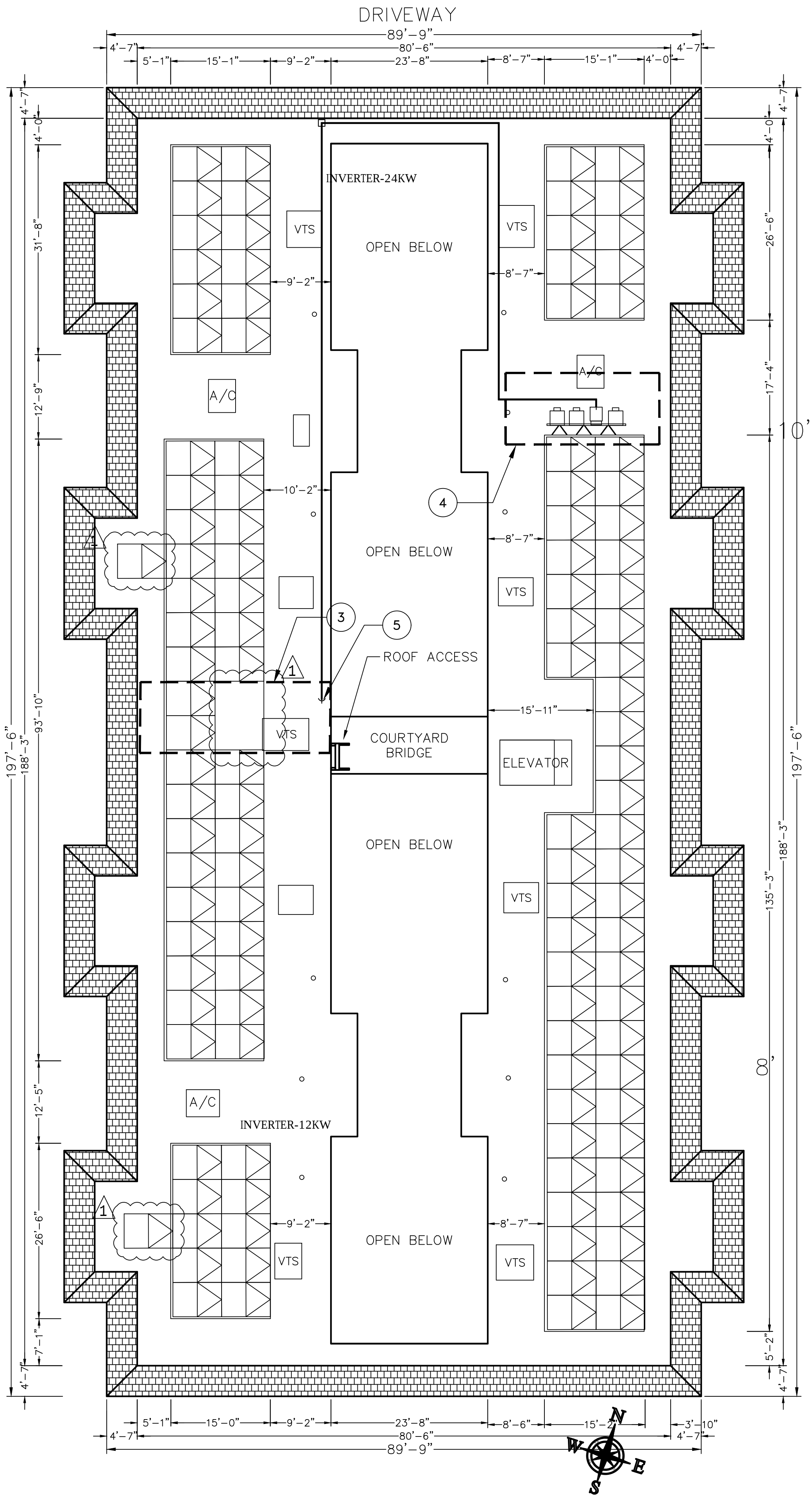
MARKING FOR MAIN SERVICE AND AC COMBINER

NOTES:
1. LETTERING ON SIGNS SHALL BE CAPITAL LETTERS, MINIMUM SIZE OF 1/8" HIGH. LETTERING SHALL BE REFLECTIVE RED ON WHITE BACKGROUND OR VICE VERSA.
2. CLEARLY LABEL ALL CIRCUIT BREAKERS IN THE PANELBOARD. THE LABEL SHALL INDICATE THE NAME OF THE DEVICE IT SERVES.

2397 VIA MARIPOSA
WEST SITE PLAN

NOTES:

1. ROOF PERIMETER FIRE CLEARANCE: MIN 4'-0".
2. FIRE CLEARANCE AROUND SKYLIGHT: MIN 4'-0".
3. FIRE CLEARANCE AROUND OPENINGS: MIN 4'-0".
4. ROOF HEIGHT: 40'-0" APPROXIMATE.
5. ROOF PITCH: 0°
6. CONDUIT TO PENETRATE ROOF AND ENTER THIRD FLOOR LAUNDRY ROOM. CONDUIT RUN WILL CONTINUE DOWN ALONG SIDE THE TRASH SHOOT FINALLY ENTERING TRASH CLOSET AT GROUND LEVEL, CONDUIT WILL THEN PENETRATE WALL INSIDE OF TRASH CLOSET AND TERMINATE AT PV AC DISCONNECT ON OPPOSITE SIDE OF WALL, USE ADEQUATE SLEEVE TO PROTECT CONDUIT FROM ELEMENTS.



2 ARRAY LAYOUT
SCALE: 1"=10'-0"

PROJECT SITE

THIRD MUTUAL
LAGUNA WOODS VILLAGES

24351 EL TORO RD.
LAGUNA WOODS, CA 92637

PROJECT DEVELOPER



SOLAR OPTIMUM, INC
501 WEST GLENOAKS BLVD.
GLENDALE, CA 91202
800-552-9970
WWW.SOLAROPTIMUM.COM
LICENSE NUMBER 972228 C10

CONTRACTOR



SOLAR OPTIMUM, INC
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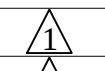
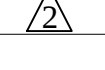
SIGNATURE



STAMP

CITY APPROVAL STAMP

REVISION

MARK	DATE	DESCRIPTION
	11/14/16	AS BUILT
	12/14/16	AS BUILT

DRAWN BY: SCOTT
CHECKED BY: T.T.T.
SCALE: AS SHOWN
DATE: 12/22/16

SHEET TITLE

LABELS

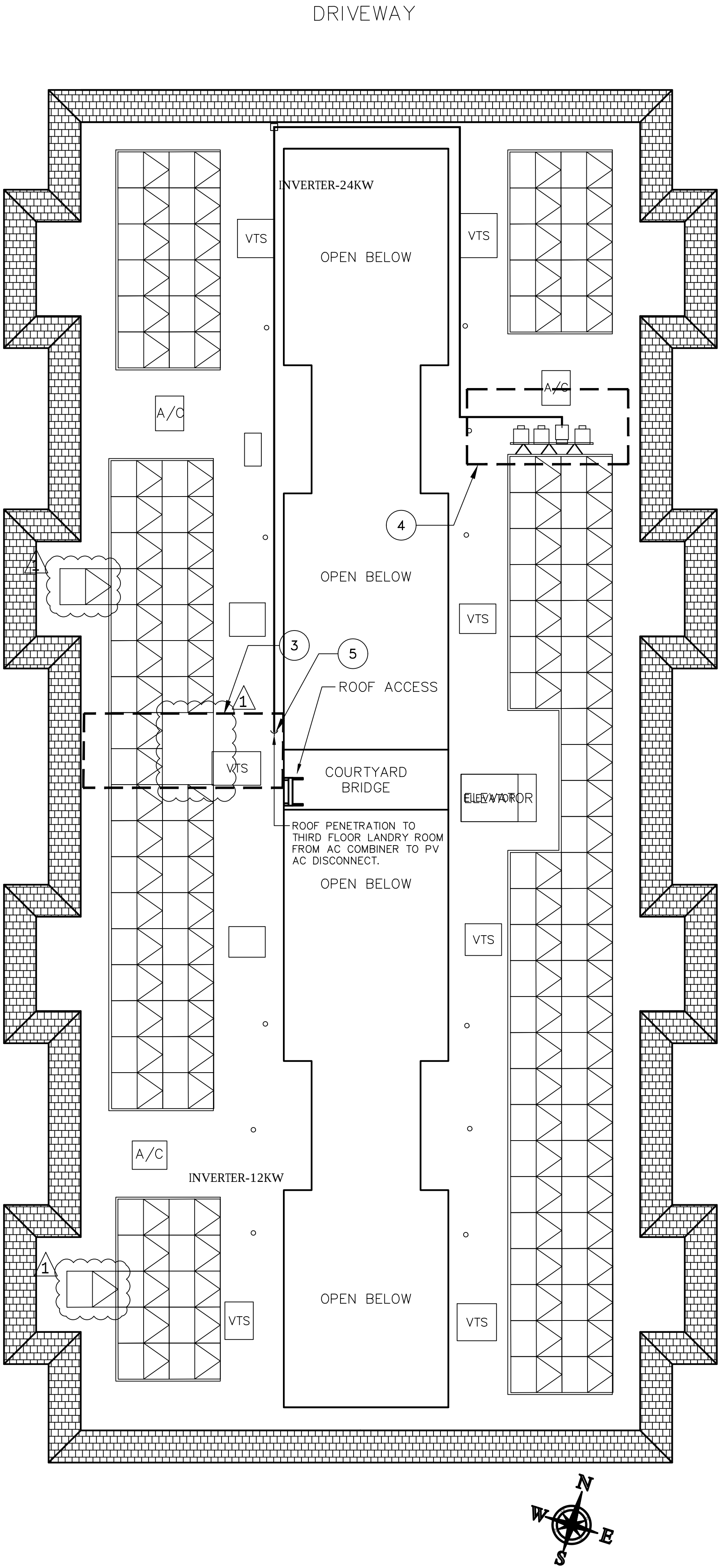
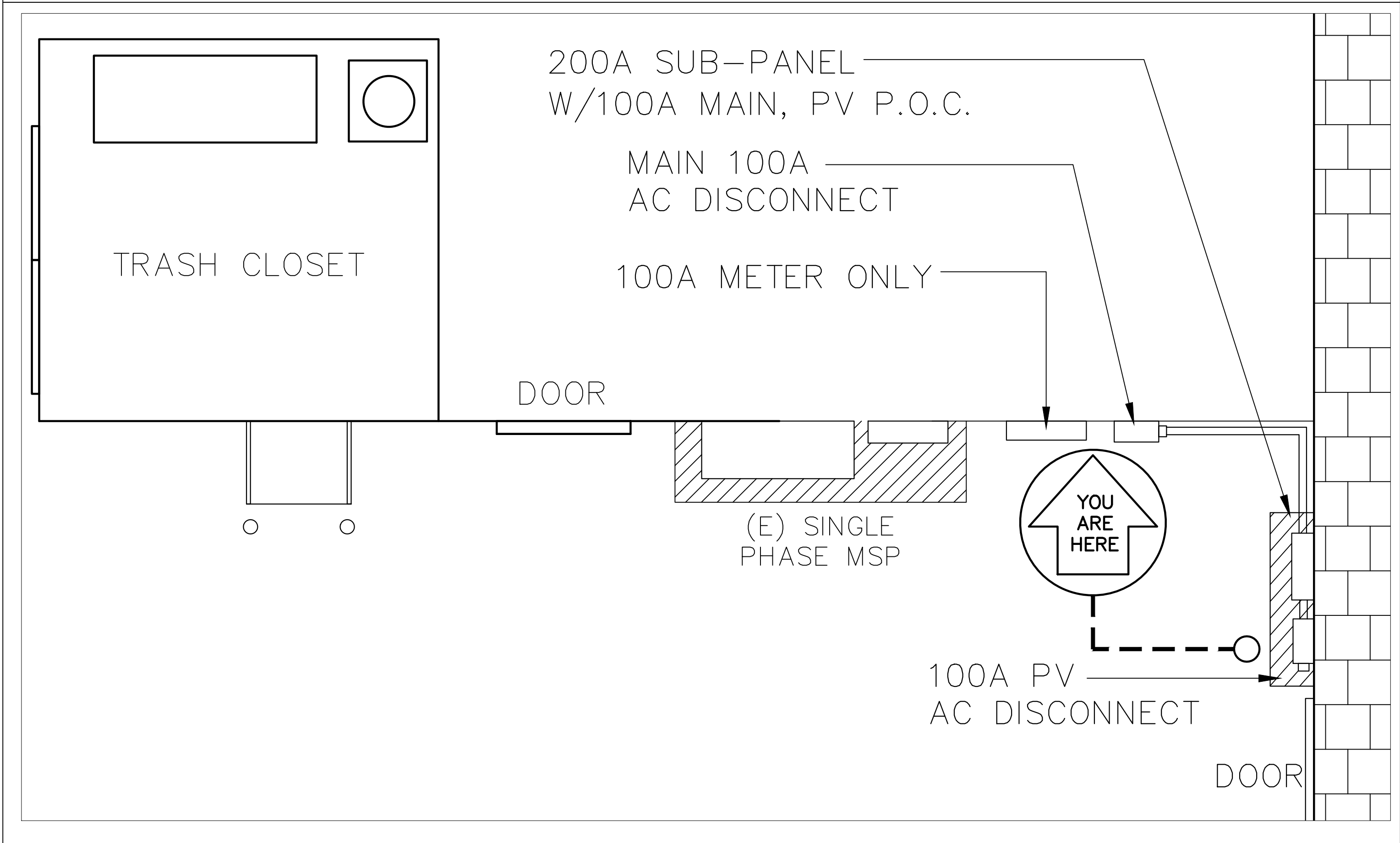
SHEET NUMBER

S1.2L

2397 VIA MARIPOSA
WEST SITE PLAN

CAUTION

POWER TO THIS BUILDING IS ALSO SUPPLIED
FROM THE FOLLOWING SOURCES WITH
DISCONNECTS LOCATED AS SHOWN:



2 ARRAY LAYOUT
SCALE: 1"=10'-0"

PROJECT SITE

THIRD MUTUAL
LAGUNA WOODS VILLAGES

24351 EL TORO RD.
LAGUNA WOODS, CA 92637

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SHEET TITLE

LABELS

SHEET NUMBER

DIRECTORY MAP

2394 VIA MARIPOSA WEST VILLA CAPRI
STRING LAYOUT

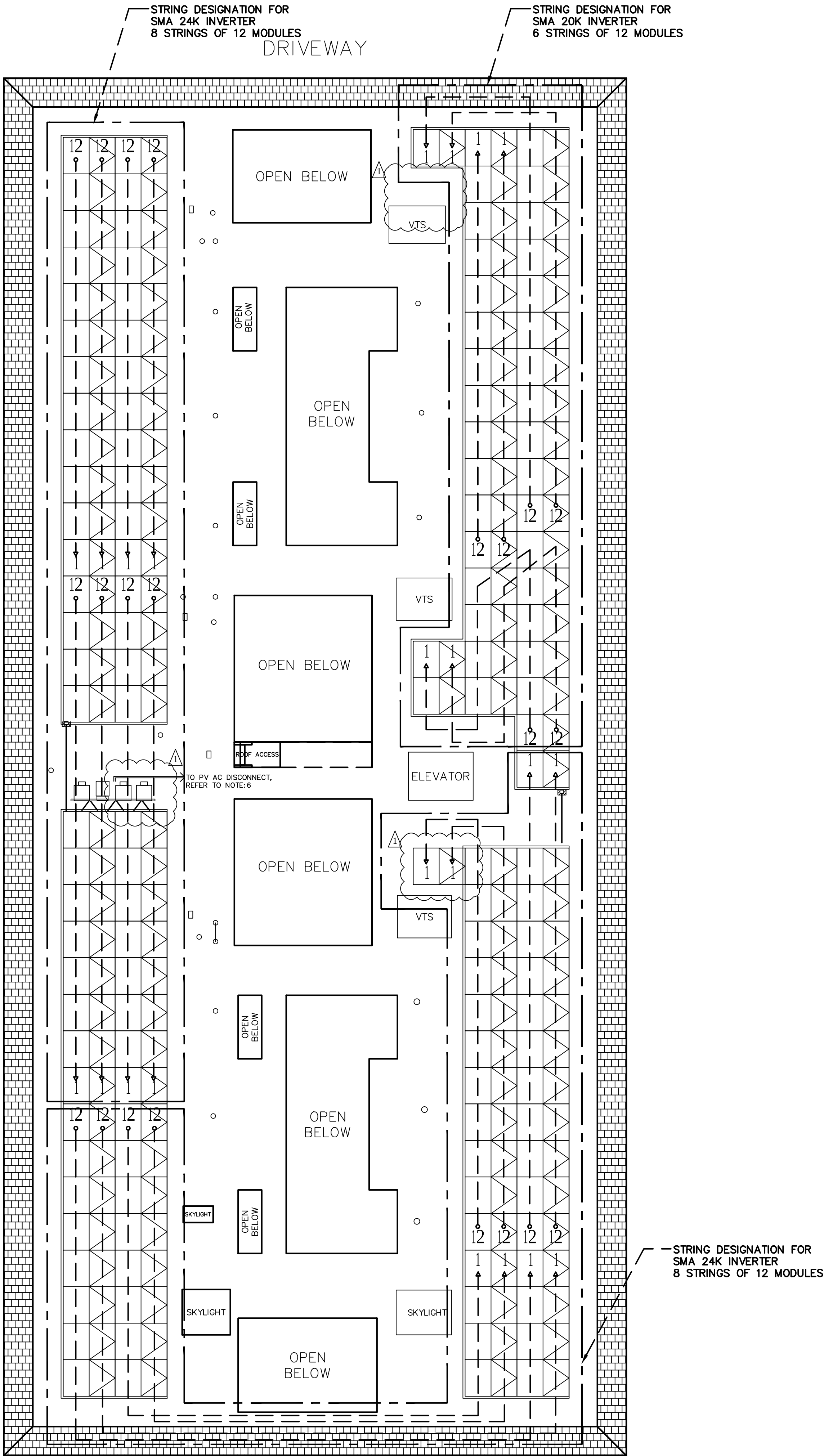
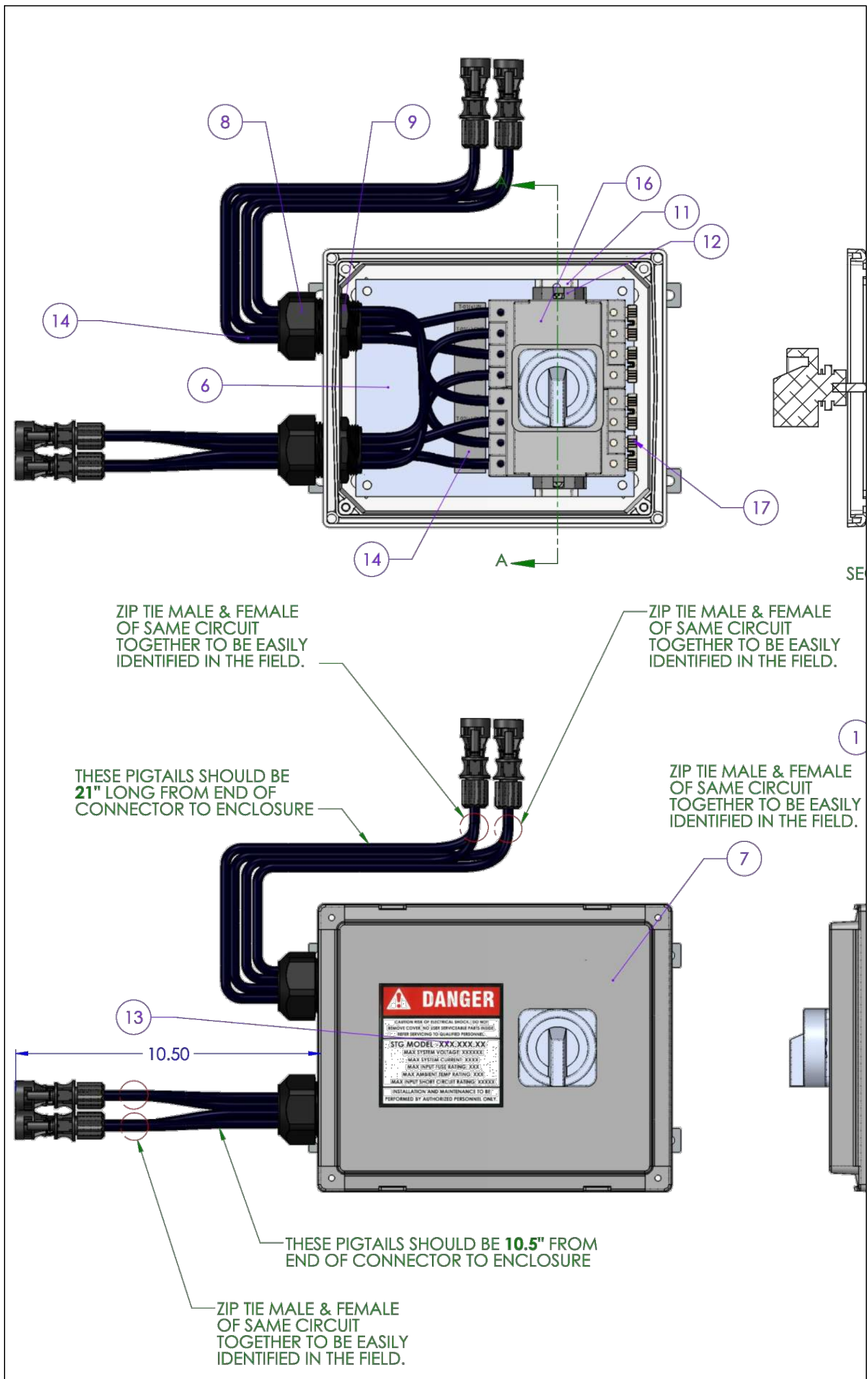
SunPower® | Helix Roof Solution

HELIX ROOF Power Station



DC Branch

Model	Helix plug-and-play DC Branch
String input options	2, 3, and 4 string
String fuse rating	15 A
Conductor size	#12 to #8 AWG
Conductor insulation rating	Sunlight-resistant PV Wire
Voltage rating	2000 VDC
Fusing	12 A
Connectors	String side: Tyco PV4 Solarlock Combined side: Amphenol H4-UTX-XL



1 STRING LAYOUT

SCALE: N.T.S.

LEGEND:

— — — — —> STRINGS

— — — — — INVERTER DESIGNATION

PROJECT SITE

THIRD MUTUAL
LAGUNA WOODS VILLAGES

24351 EL TORO RD.
LAGUNA WOODS, CA 92637

PROJECT DEVELOPER



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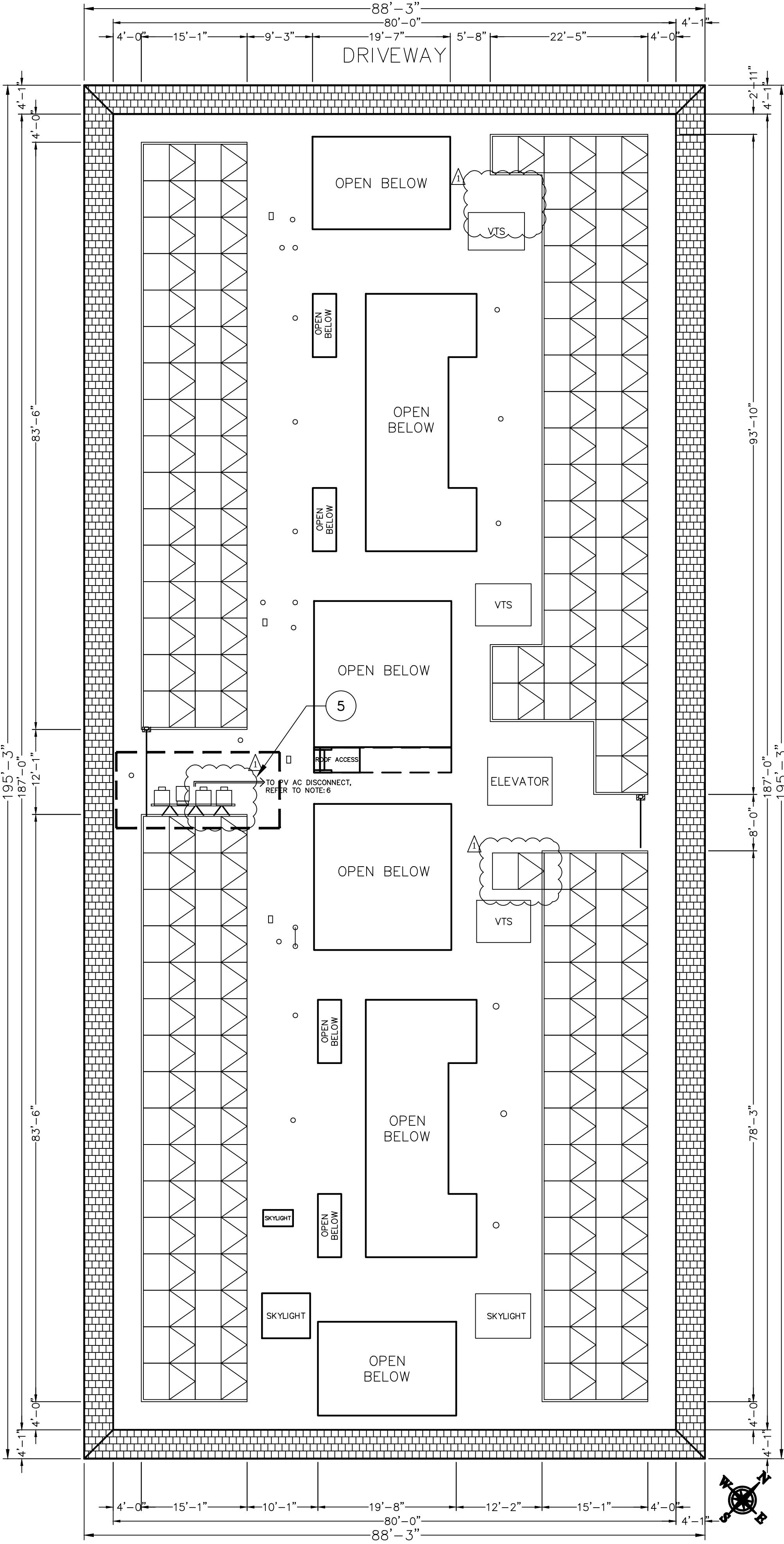
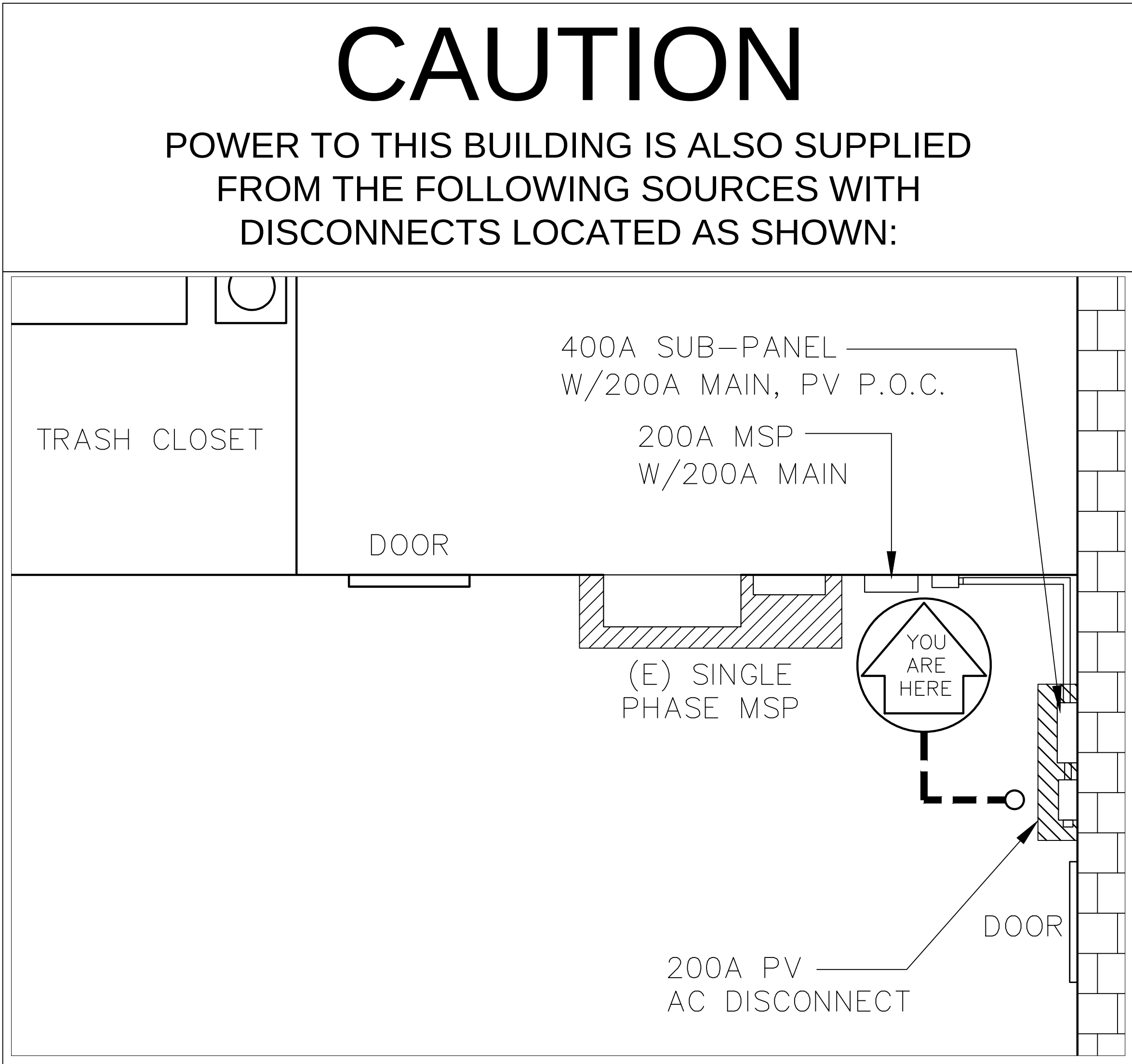
SHEET TITLE

STRING LAYOUT

SHEET NUMBER

S1.1 ST

2394 VIA MARIPOSA
WEST VILLA CAPRI SITE PLAN



2 ARRAY LAYOUT
SCALE: 1"=10'-0"

PROJECT SITE

THIRD MUTUAL
LAGUNA WOODS VILLAGES

24351 EL TORO RD.
LAGUNA WOODS, CA 92637

PROJECT DEVELOPER

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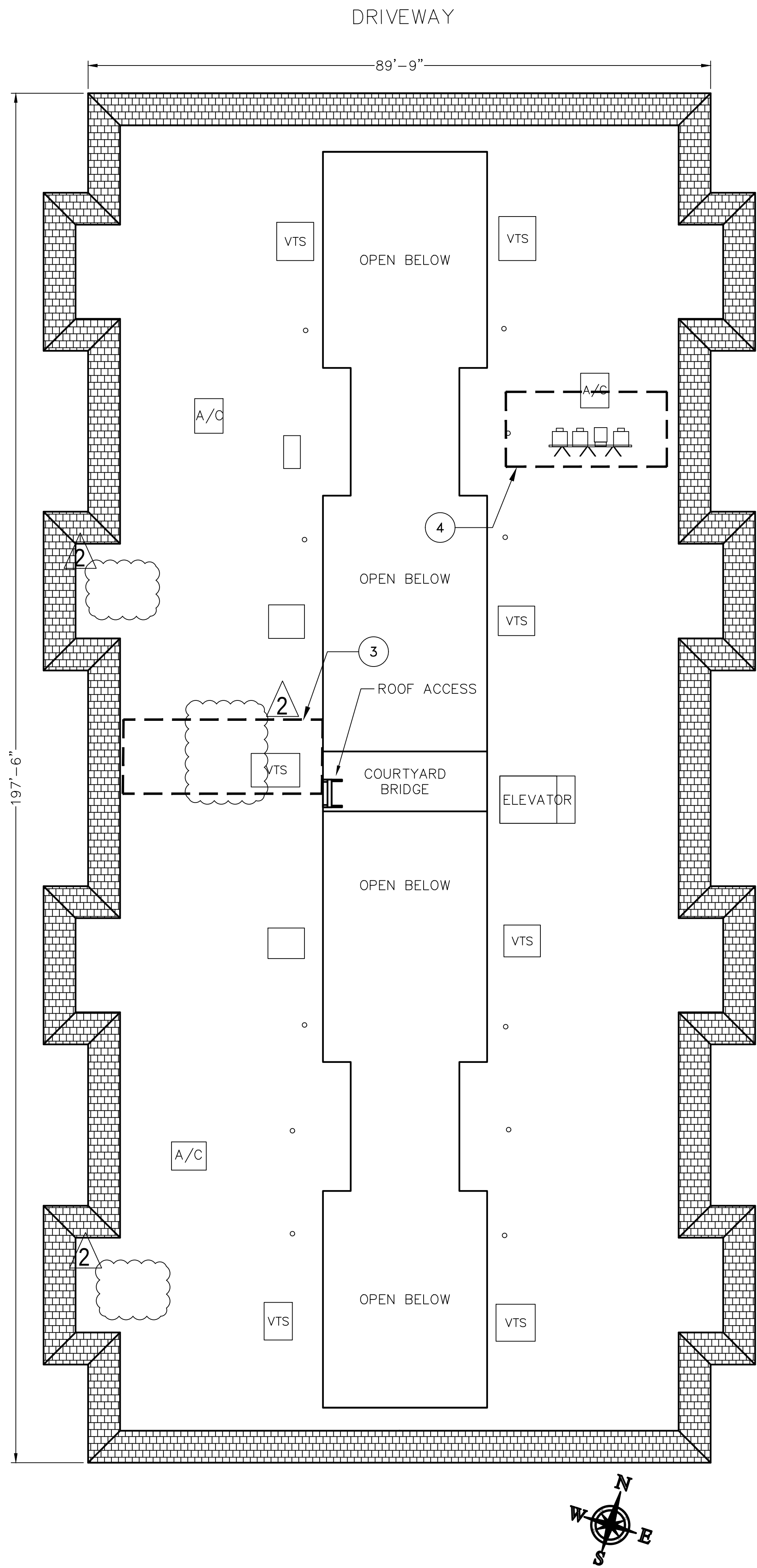
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SHEET TITLE

DIRECTORY MAP

SHEET NUMBER

DIRECTORY MAP

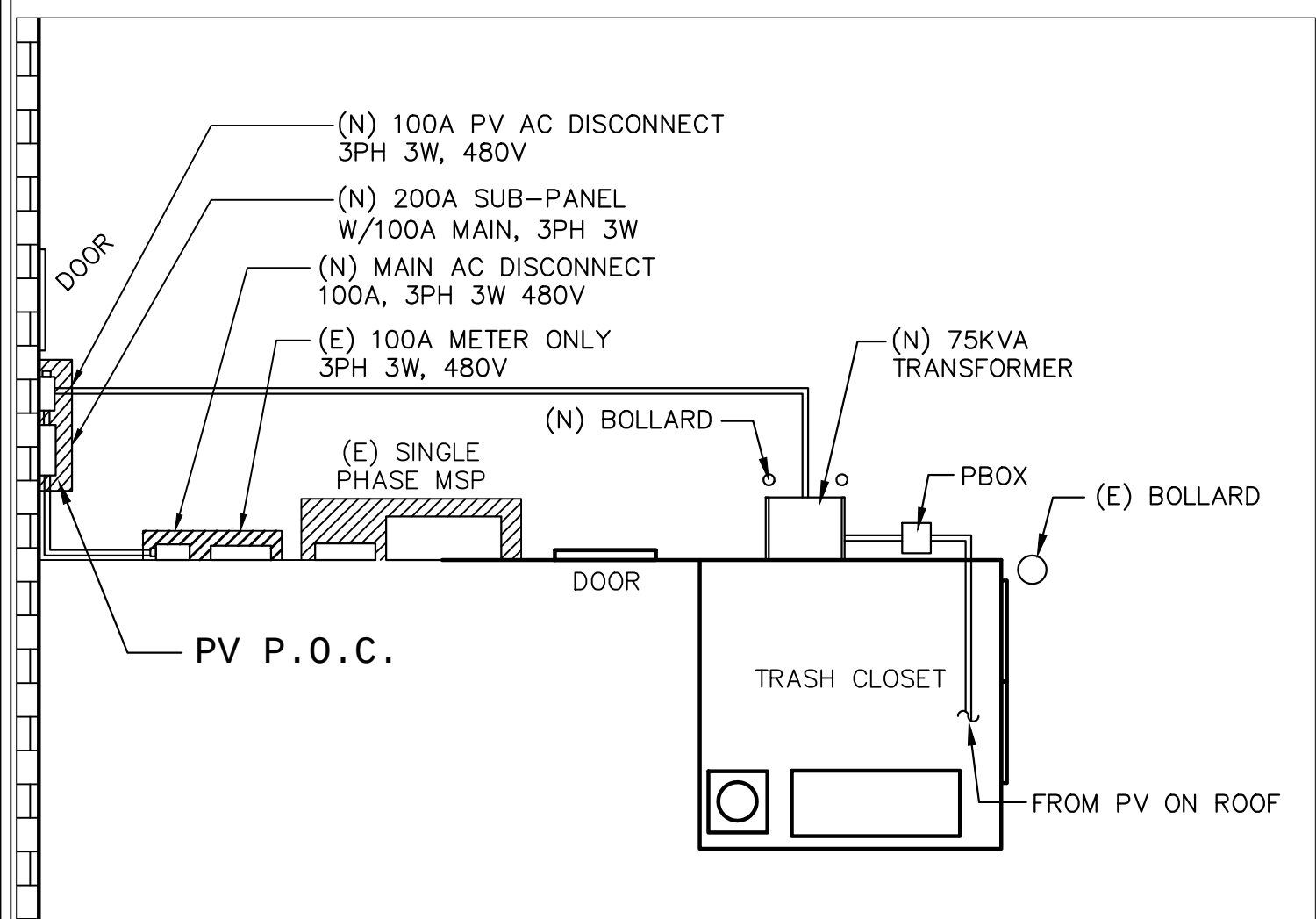


1 BUILDING LAYOUT
SCALE: 3/32"=1'-0"

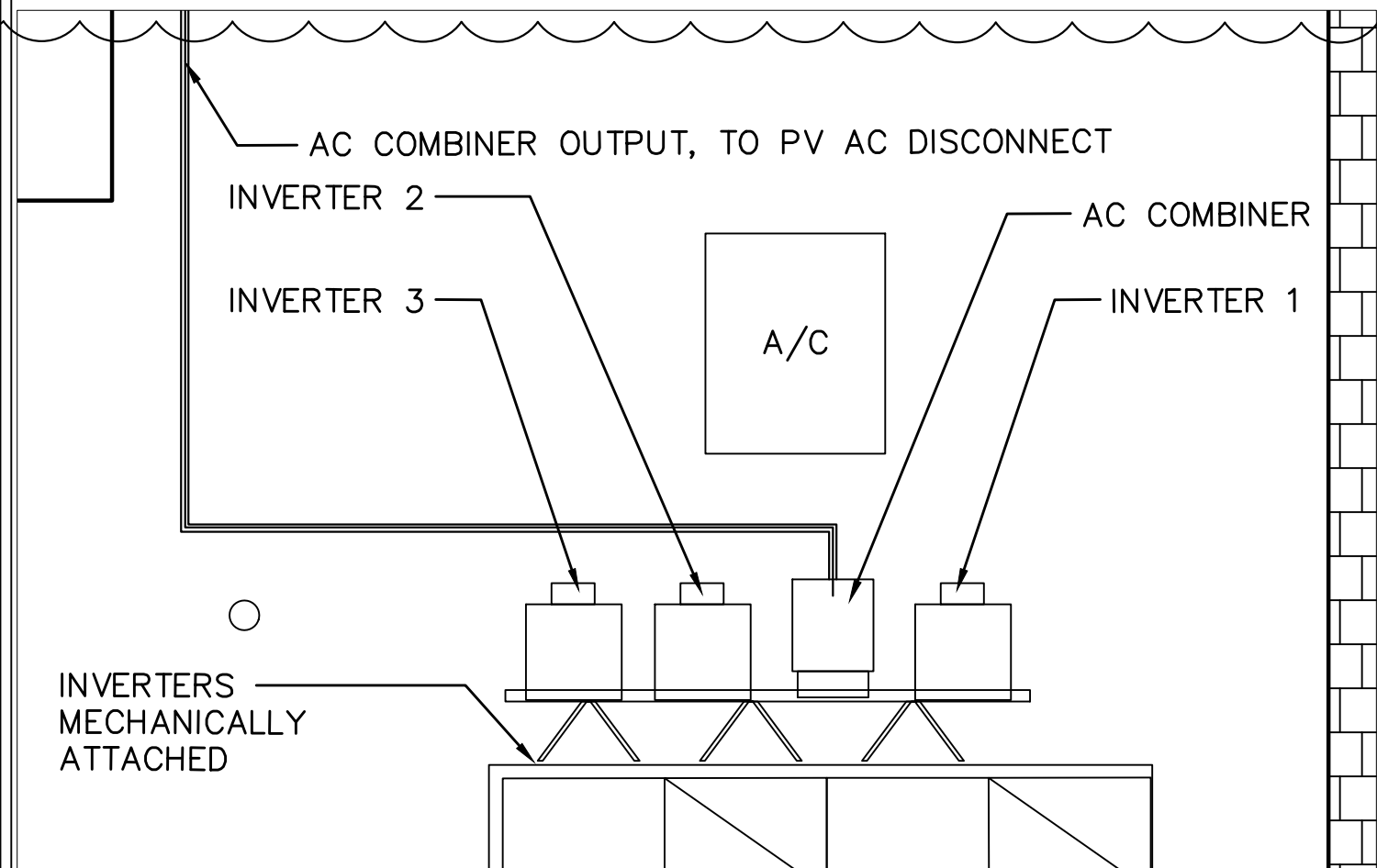
2397 VIA MARIPOSA WEST SITE PLAN

NOTES:

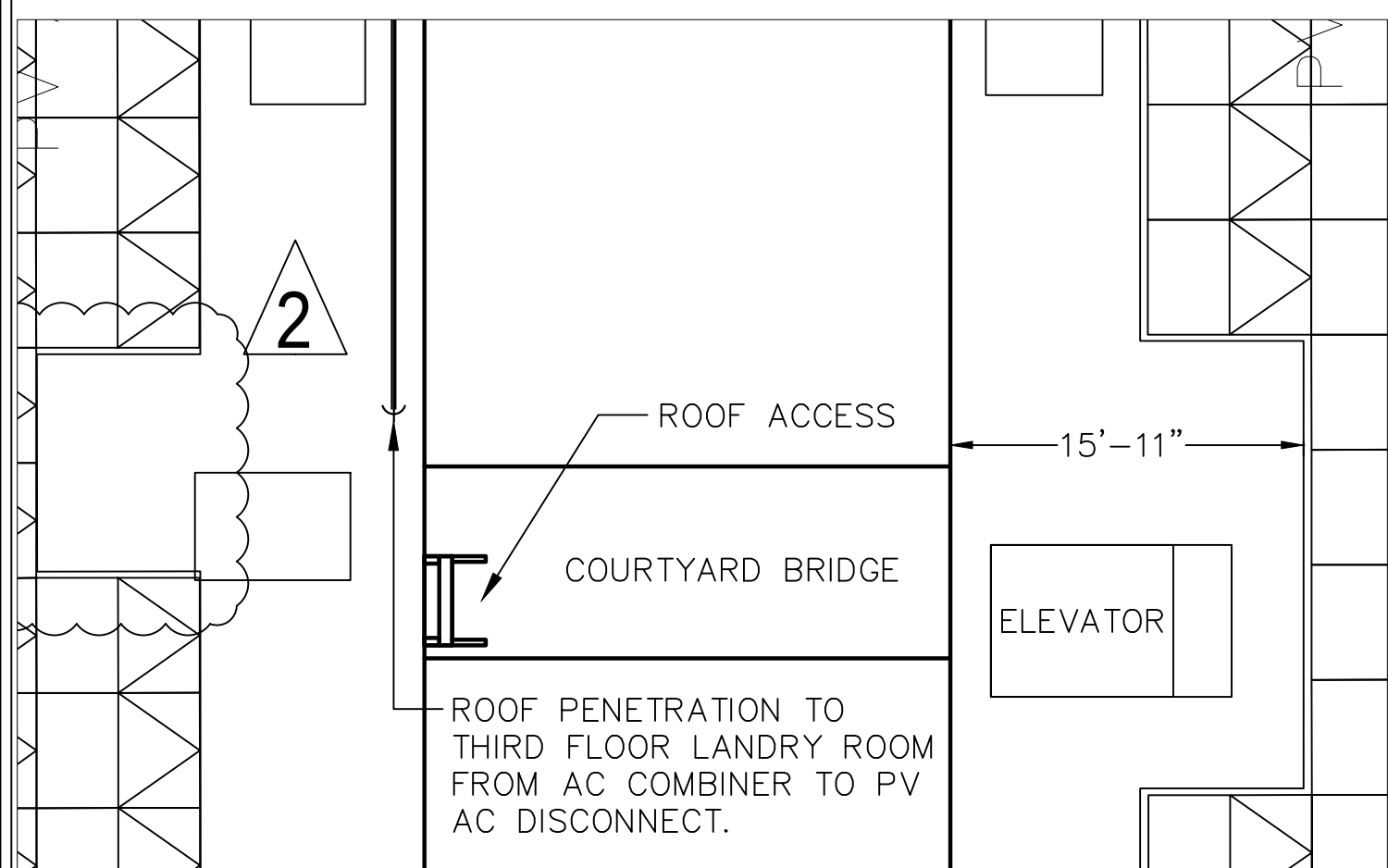
1. ROOF PERIMETER FIRE CLEARANCE: MIN 4'-0".
2. FIRE CLEARANCE AROUND SKYLIGHT: MIN 4'-0".
3. FIRE CLEARANCE AROUND OPENINGS: MIN 4'-0".
4. ROOF HEIGHT: 40'-0" APPROXIMATE.
5. ROOF PITCH: 0°
6. CONDUIT TO PENETRATE ROOF AND ENTER THIRD FLOOR LAUNDRY ROOM. CONDUIT RUN WILL CONTINUE DOWN ALONG SIDE THE TRASH SHOOT FINALLY ENTERING TRASH CLOSET AT GROUND LEVEL, CONDUIT WILL THEN PENETRATE WALL INSIDE OF TRASH CLOSET AND TERMINATE AT PV AC DISCONNECT ON OPPOSITE SIDE OF WALL, USE ADEQUATE SLEEVE TO PROTECT CONDUIT FROM ELEMENTS.



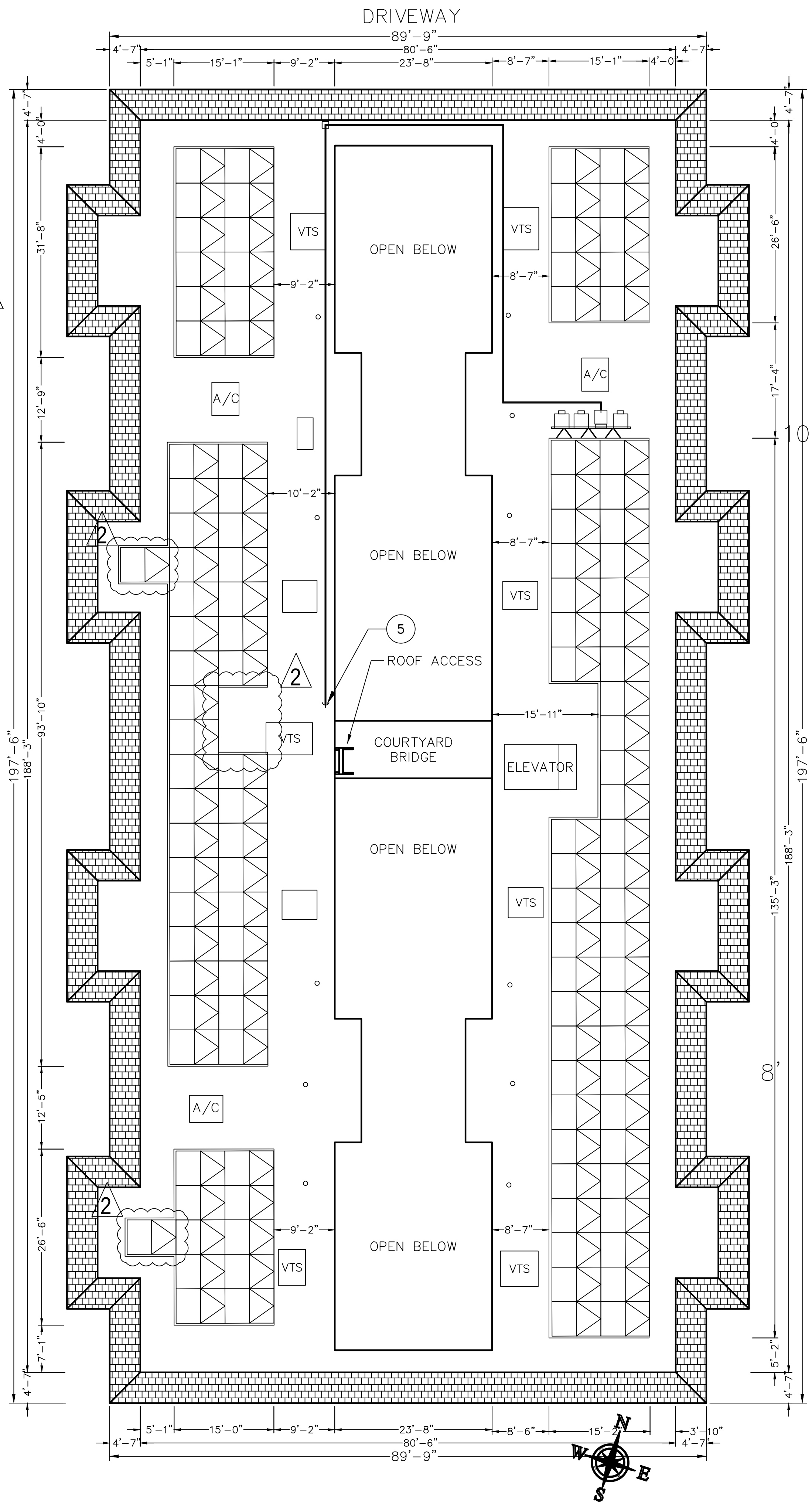
3 MAIN PANEL LOCATION 1ST FLOOR
SCALE: N.T.S.



4 POWER STATION LOCATION ROOF
SCALE: N.T.S.



5 ROOF PENETRATION NOTE
SCALE: N.T.S.



2 ARRAY LAYOUT
SCALE: 3/32"=1'-0"

PROJECT SITE

THIRD MUTUAL
LAGUNA WOODS VILLAGES

24351 EL TORO RD.
LAGUNA WOODS, CA 92637

PROJECT DEVELOPER


SOLAR OPTIMUM, INC
501 WEST GLENOAKS BLVD.
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CHECKED BY: T.T.T.
SCALE: AS SHOWN
DATE: 12/21/16

SHEET TITLE

SITE PLAN
2397 VIA MARIPOSA
WEST VILLA CAPRI

SHEET NUMBER

S1.2

2397 VIA MARIPOSA WEST
BALLAST AND PENETRATION SITE PLAN

WIND LOAD SUMMARY						
OUTPUTS		WIND ZONES				
PANEL TYPES	ATTRIBUTES	A	B	C	D	E
1	Ballast Block(s)	3	0	11	4	0
	Wind Anchor(s)	1	1	0	0	0
	Pressure (psf)	3.49	2.40	6.47	3.85	2.40
2	Ballast Block(s)	0	0	8	2	0
	Wind Anchor(s)	1	1	0	0	0
	Pressure (psf)	2.40	2.40	5.34	3.12	2.40
3	Ballast Block(s)	0	0	8	2	0
	Wind Anchor(s)	1	1	0	0	0
	Pressure (psf)	2.26	2.26	5.22	2.98	2.26
4	Ballast Block(s)	15	8	3	0	0
	Wind Anchor(s)	0	0	0	0	0
	Pressure (psf)	7.81	5.22	3.34	2.26	2.26
Minimum Array Size by Zone (Tents)		18	15	17	17	6
L _b – BUILDING SCALING FACTOR (FT)		K _z – SITE WIND PRESSURE FACTOR				
35.6		0.84				

INVERTER SUMMARY TABLE				
ROOF	MODULES	INVERTER TYPE	INVERTER QTY	STRING CONFIGURATION
1	192	24kW	2	MPPT 1: 12 MODULES, 4 STRING
				MPPT 2: 12 MODULES, 4 STRING
	40	12kW	1	MPPT 1: 10 MODULES, 2 STRING
				MPPT 2: 10 MODULES, 2 STRING
TOTAL	232		3	

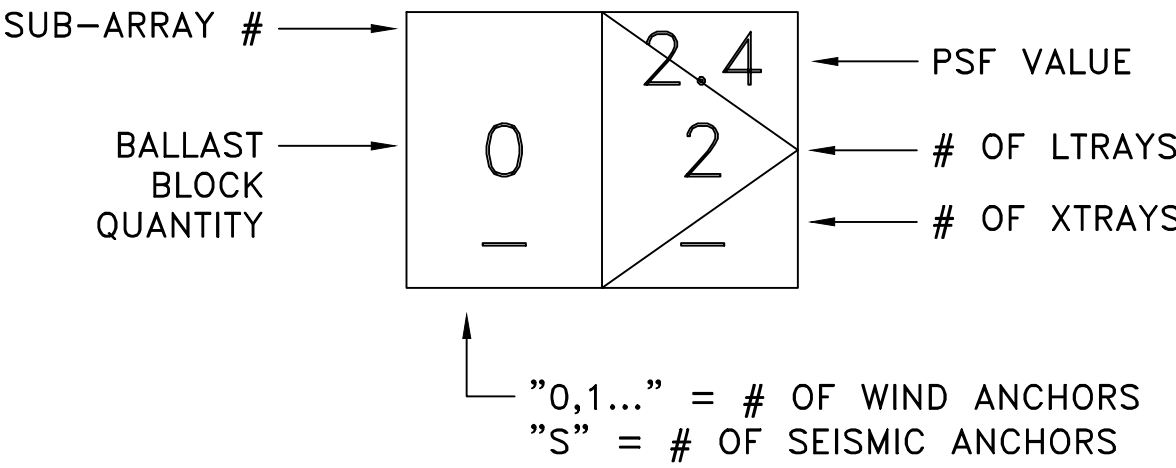
BALLAST AND ANCHOR SUMMARY					
ROOF	BALLAST COUNT	ANCHOR COUNT	ARRAY WEIGHT (LBS)	MAX. PSF	AVERAGE PSF
1	120	122	11,940	4.62	2.67
TOTAL	120	122			

- NOTES:
- ALREADY INCLUDED THE ADDITIONAL ANCHOR & BALLAST IDENTIFIED IN NOTES ITEM#2.
 - EXISTING TRUSSES TYPICAL: 2" X 4" @ 24" O.C.
 - MAXIMUM 8PSF FOR BALLAST SYSTEM.

SITE CHARACTERIZATION			
BUILDING HEIGHT (ft)	40	BUILDING WIDTH (ft)	90
BUILDING LENGTH (ft)	198	PARAPET HEIGHT (ft)	1.5
WIND SPEED (ASCE7-10) (mph)	130	EXPOSURE CATEGORY	B TO C
EXPOSURE TRANSITION DISTANCE (ft)	831	BALLAST BLOCK WEIGHT (lbs)	14
MAX ALLOWABLE SYSTEM PRESSURE (psf)	8	ANCHOR TYPE	OMG POWERGRIP PLUS
DESIGN SPECTRAL RESPONSE ACCELERATION (S _{DS}) (g)	0.994	SEISMIC IMPORTANCE FACTOR (I _p)	1

PROPOSED SYSTEM SPECIFICATION
75.864 kWp 232 HIGH EFF. (327W) MODULES 12 MODULES/STRING, 16 STRINGS 10 MODULES/STRING, 4 STRINGS ROOF HEIGHT: 40' ROOF PITCH: 0°

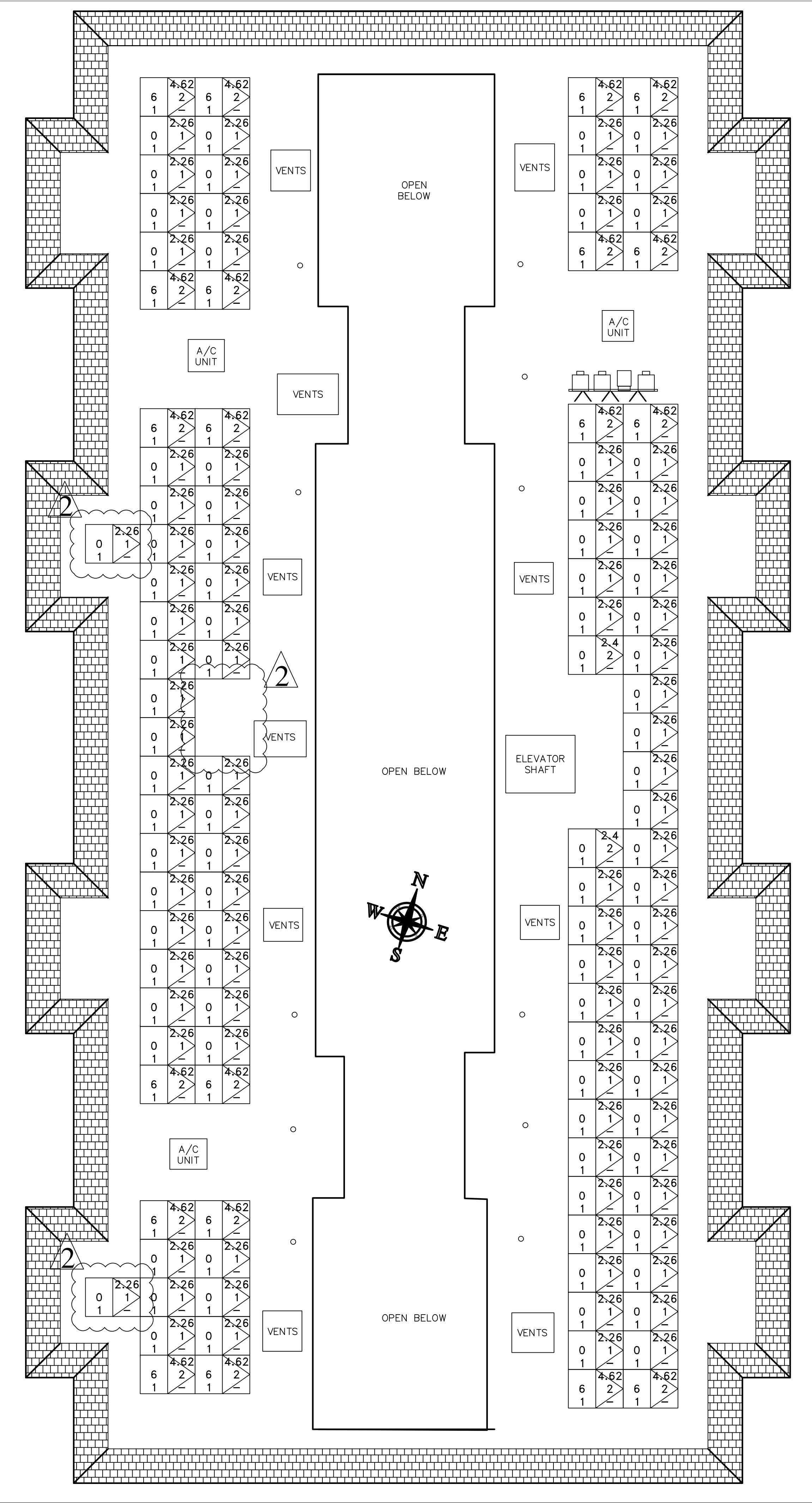
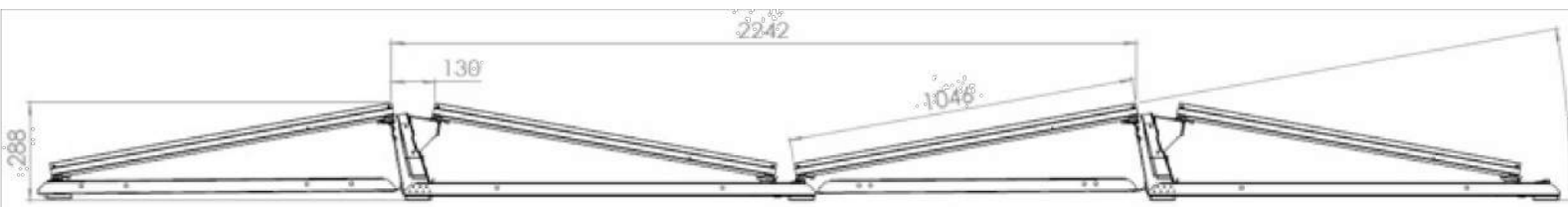
- NOTES:
- SUBARRAYS THAT DID NOT MEET THE REQUIRED MINIMUM ARRAY SIZE WILL REQUIRE ADDITIONAL ANCHORING. PLEASE CONSULT STRUCTURAL ENGINEERING.
 - ADDITIONAL ANCHORS REQUIRED PER SUBARRAY FOR LATERAL LOADS.
2.1 SUBARRAY 1: [2]
2.2 SUBARRAY 2: [2]
2.3 SUBARRAY 4: [2]
 - ADDITIONAL ANCHORS CAN BE PLACED ANYWHERE WITHIN THE SUBARRAY.



LEGEND
SCALE: N.T.S.



Tilt angle	10 degrees
Module compatibility	SPR-E20-327-COM (327 W DC)*
Ground coverage ratio (GCR)	0.91 0.67
Base system weight	9.3 kg/m² (1.9 psf) 12.2 kg/m² (2.5 psf)
Maximum ballast capacity	58.6 kg/m² (12 psf)
Warranty	25 years
Certifications	UL 2703
Wind tunnel testing	ASCE 7-10 and SEAOC PV2 compliant
Material (structure)	5052 H32 aluminum and 301 stainless steel
Material (foot pad)	Recycled rubber (92% approx.), polyurethane binder (8% approx.)
Compatible roof anchors	EcoFasten Solar® Eco-65/F-202, OMG PowerGrip™, OMG PowerGrip Plus™



1 BALLAST AND PENETRATION LAYOUT
SCALE: 1"=10'-0"

PROJECT SITE

THIRD MUTUAL
LAGUNA WOODS VILLAGES

24351 EL TORO RD.
LAGUNA WOODS, CA 92637

PROJECT DEVELOPER

SOLAR OPTIMUM, INC
501 WEST GLENOAKS BLVD.
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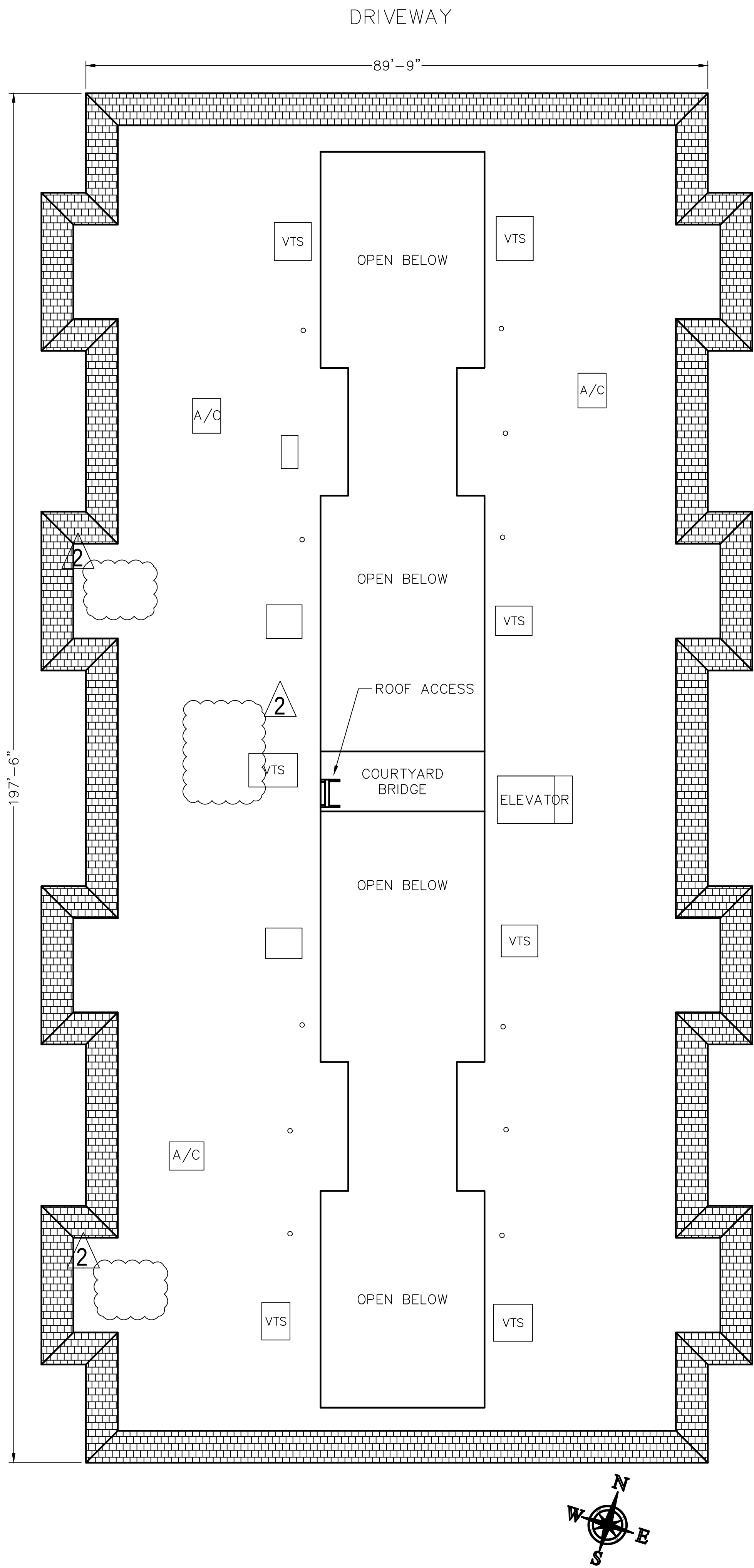
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CHECKED BY: T.T.T.
SCALE: AS SHOWN
DATE: 12/21/16

SHEET TITLE

BALLAST AND PENETRATION
SITE PLAN
2397 VIA MARIPOSA
WEST VILLA CAPRI

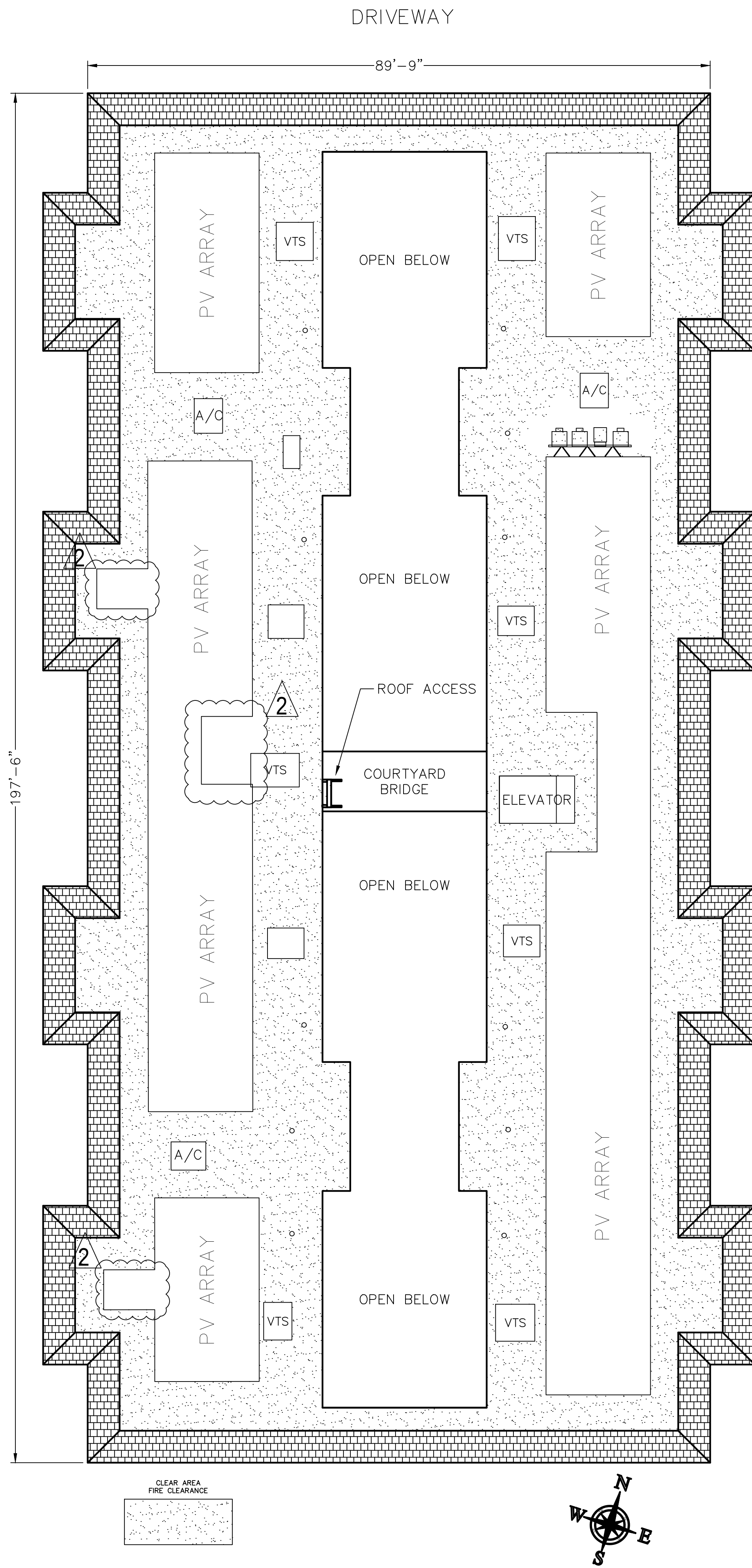
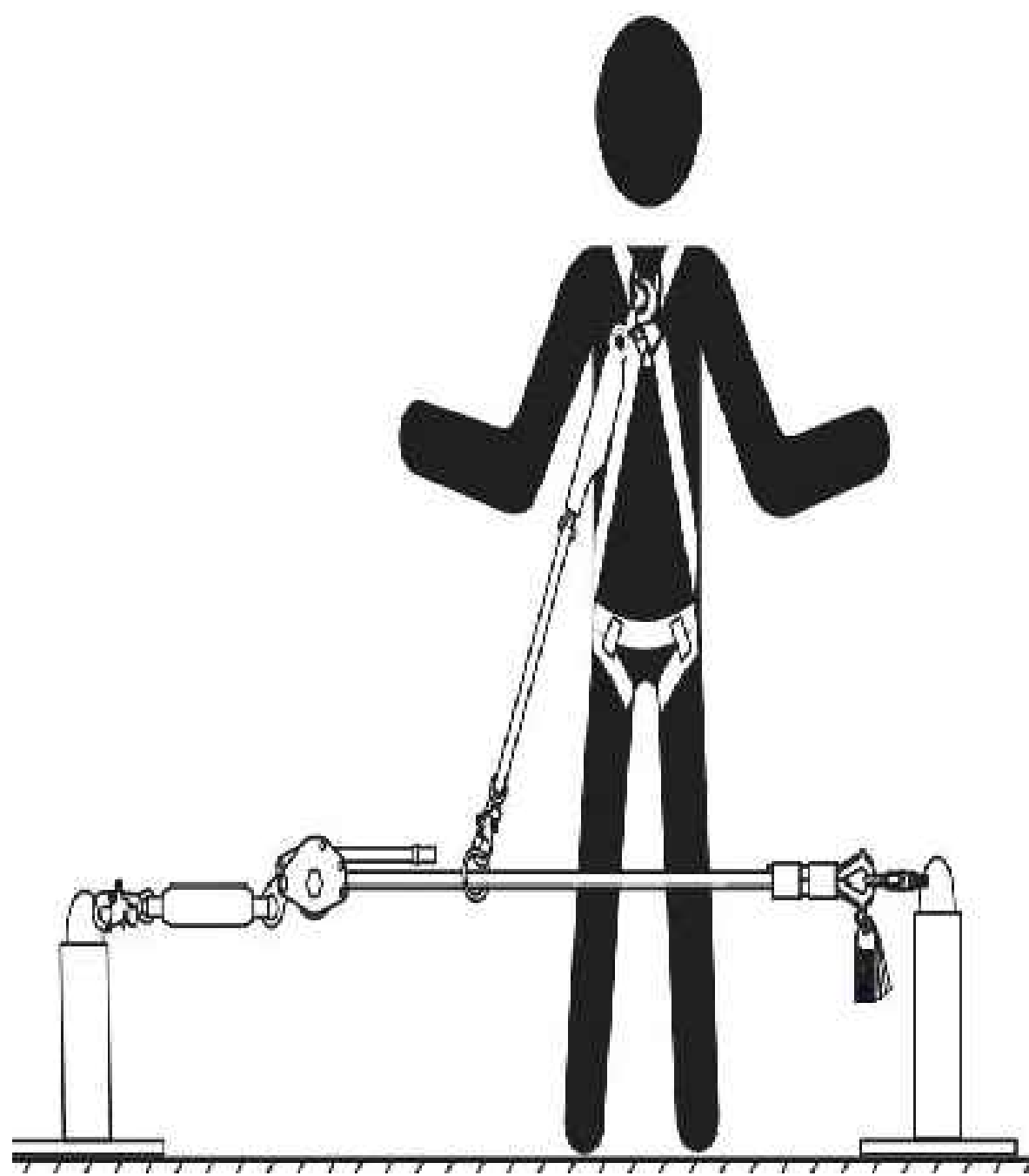
SHEET NUMBER

STR 1.2



1 GENERAL BUILDING LAYOUT
SCALE: 1"=10'-0"

2397 VIA MARIPOSA WEST
FIRE CLEARANCE SITE PLAN



1 FIRE CLEARANCE LAYOUT
SCALE: 1"=10'-0"

PROJECT SITE

THIRD MUTUAL
LAGUNA WOODS VILLAGES

24351 EL TORO RD.
LAGUNA WOODS, CA 92637

PROJECT DEVELOPER


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SHEET TITLE

FIRE CLEARANCE
SITE PLAN
2397 VIA MARIPOSA
WEST VILLA CAPRI
SHEET NUMBER

S1.2F

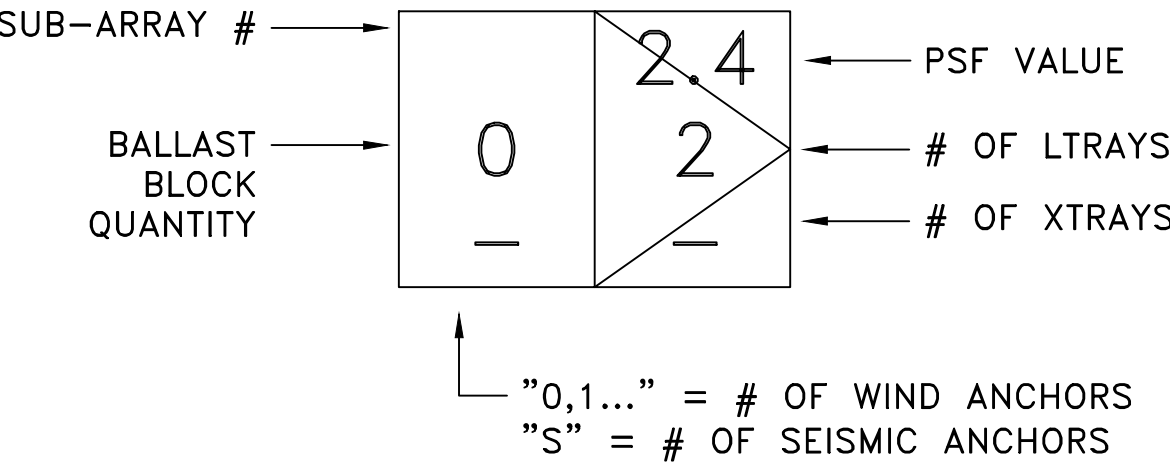
S 1.3

2399 MARIPOSA WEST
BALLAST AND PENETRATION PLAN

WIND LOAD SUMMARY						
OUTPUTS		WIND ZONES				
PANEL TYPES	ATTRIBUTES	A	B	C	D	E
1	Ballast Block(s)	6	0	13	5	0
	Wind Anchor(s)	1	1	0	0	0
	Pressure (psf)	4.62	2.40	7.20	4.21	2.40
2	Ballast Block(s)	0	0	9	3	0
	Wind Anchor(s)	1	1	0	0	0
	Pressure (psf)	2.40	2.40	5.71	3.49	2.40
3	Ballast Block(s)	0	0	9	3	0
	Wind Anchor(s)	1	1	0	0	0
	Pressure (psf)	2.26	2.26	5.58	3.34	2.26
4	Ballast Block(s)	0	9	4	0	0
	Wind Anchor(s)	1	0	0	0	0
	Pressure (psf)	2.26	5.58	3.71	2.26	2.26
Minimum Array Size by Zone (Tents)		18	15	17	17	6
L _B – BUILDING SCALING FACTOR (FT)		K _Z – SITE WIND PRESSURE FACTOR				
35.51		0.83				

PROPOSED SYSTEM SPECIFICATION
TOTALS: 66,708 kWp 204 HIGH EFF. (327W) MODULES 12 MODULES/STRING, 12 STRINGS 10 MODULES/STRING, 6 STRINGS ROOF HEIGHT: 40' ROOF PITCH: 0°

- NOTES:
- SUBARRAYS THAT DID NOT MEET THE REQUIRED MINIMUM ARRAY SIZE WILL REQUIRE ADDITIONAL ANCHORING. PLEASE CONSULT STRUCTURAL ENGINEERING.
 - ADDITIONAL ANCHORS REQUIRED PER SUBARRAY FOR LATERAL LOADS.
2.1 SUBARRAY 3: [3]
2.2 SUBARRAY 4: [1]
 - ADDITIONAL ANCHORS CAN BE PLACED ANYWHERE WITHIN THE SUBARRAY, AND ADDITIONAL BALLAST MUST BE PLACED WHERE THE MODULE PSF IS LOWEST.



2 LEGEND
SCALE: N.T.S.

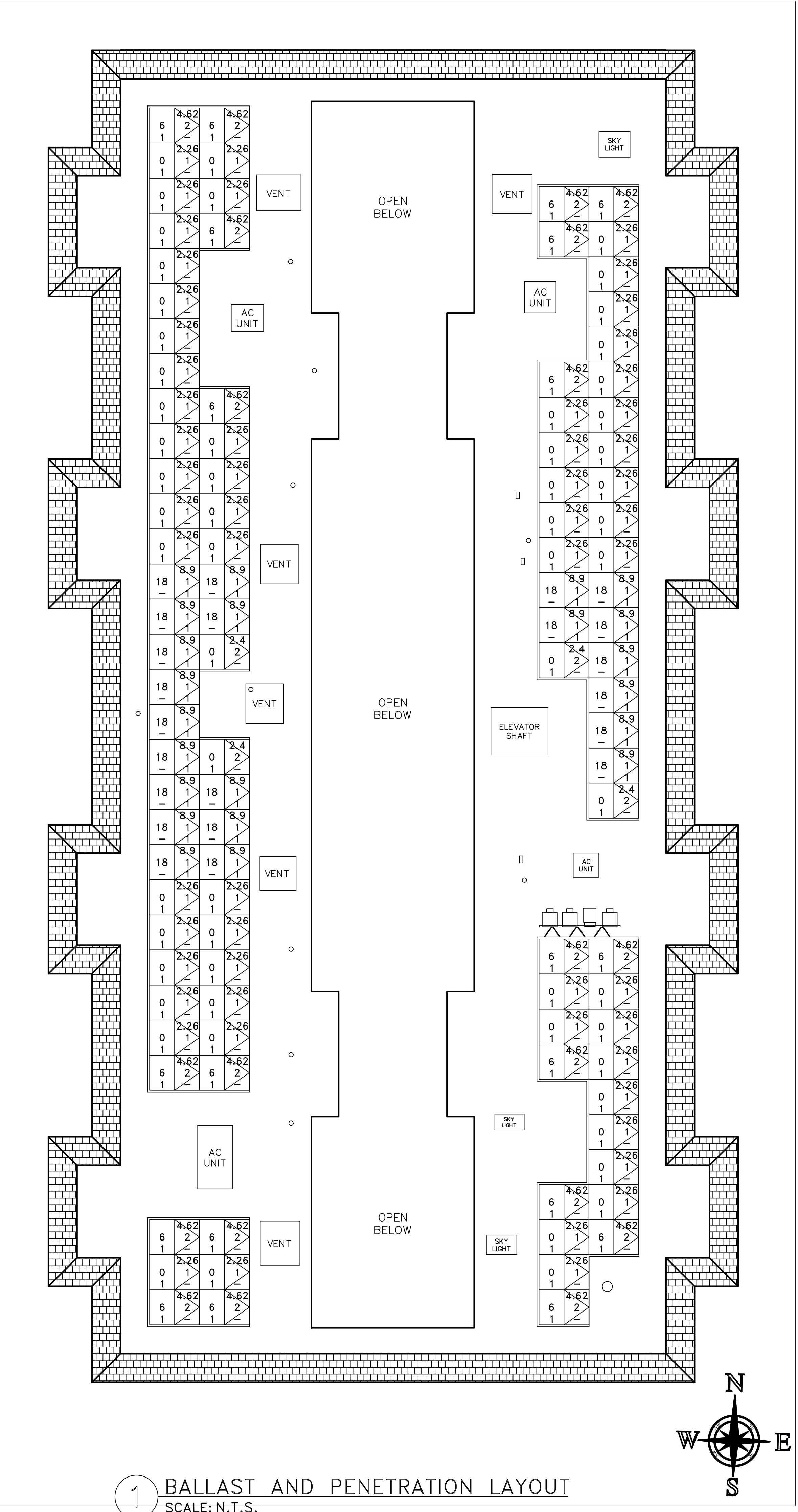
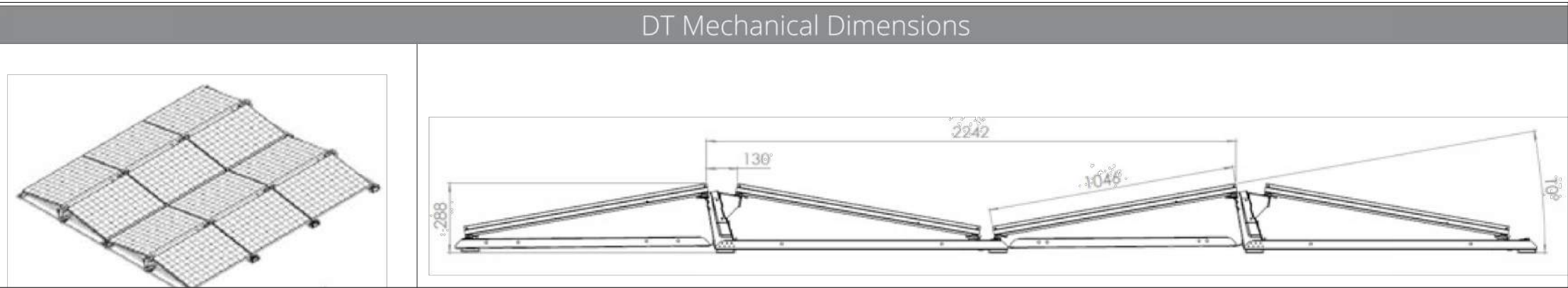
INVERTER SUMMARY TABLE				
ROOF	MODULES	INVERTER TYPE	INVERTER QTY	STRING CONFIGURATION
1	96	24kW	1	MPPT 1: 12 MODULES, 4 STRING
				MPPT 2: 12 MODULES, 4 STRING
	60	15kW	1	MPPT 1: 10 MODULES, 3 STRING
				MPPT 2: 10 MODULES, 3 STRING
	48	12kW	1	MPPT 1: 12 MODULES, 2 STRING
				MPPT 1: 12 MODULES, 2 STRING
TOTAL	204		3	

BALLAST AND ANCHOR SUMMARY					
ROOF	BALLAST COUNT	ANCHOR COUNT	ARRAY WEIGHT (LBS)	MAX. PSF	AVERAGE PSF
1	120	106	10,731	4.62	2.72
TOTAL	120	106			

- NOTES:
- ALREADY INCLUDED THE ADDITIONAL ANCHOR & BALLAST IDENTIFIED IN NOTES ITEM#2.
 - EXISTING TRUSSES TYPICAL: 2" X 4" @ 24" O.C.
 - MAXIMUM 8PSF FOR BALLAST SYSTEM.



Tilt angle	10 degrees
Module compatibility	SPR-E20-327-COM (327 W DC)*
Ground coverage ratio (GCR)	0.91 0.67
Base system weight	9.3 kg/m² (1.9 psf) 12.2 kg/m² (2.5 psf)
Maximum ballast capacity	58.6 kg/m² (12 psf)
Warranty	25 years
Certifications	UL 2703 (pending)
Wind tunnel testing	ASCE 7-10 and SEAOC PV2 compliant
Material (structure)	5052 H32 aluminum and 301 stainless steel
Material (foot pad)	Recycled rubber (92% approx.), polyurethane binder (8% approx.)
Compatible roof anchors	EcoFasten Solar® Eco-65/F-202, OMG PowerGrip®, OMG PowerGrip Plus®



1 BALLAST AND PENETRATION LAYOUT
SCALE: N.T.S.

PROJECT SITE

THIRD MUTUAL
LAGUNA WOODS VILLAGES

24351 EL TORO RD.
LAGUNA WOODS, CA 92637

PROJECT DEVELOPER



SOLAR OPTIMUM, INC
501 WEST GLENOAKS BLVD.
GLENDALE, CA 91202
800-552-9970
WWW.SOLAROPTIMUM.COM
LICENSE NUMBER 972228 C10

CONTRACTOR



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501 WEST GLENOAKS BLVD.
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LICENSE NUMBER 972228 C10

SIGNATURE



STAMP

CITY APPROVAL STAMP

REVISION

MARK	DATE	DESCRIPTION
△	11/14/16	AS BUILT
△	12/14/16	AS BUILT

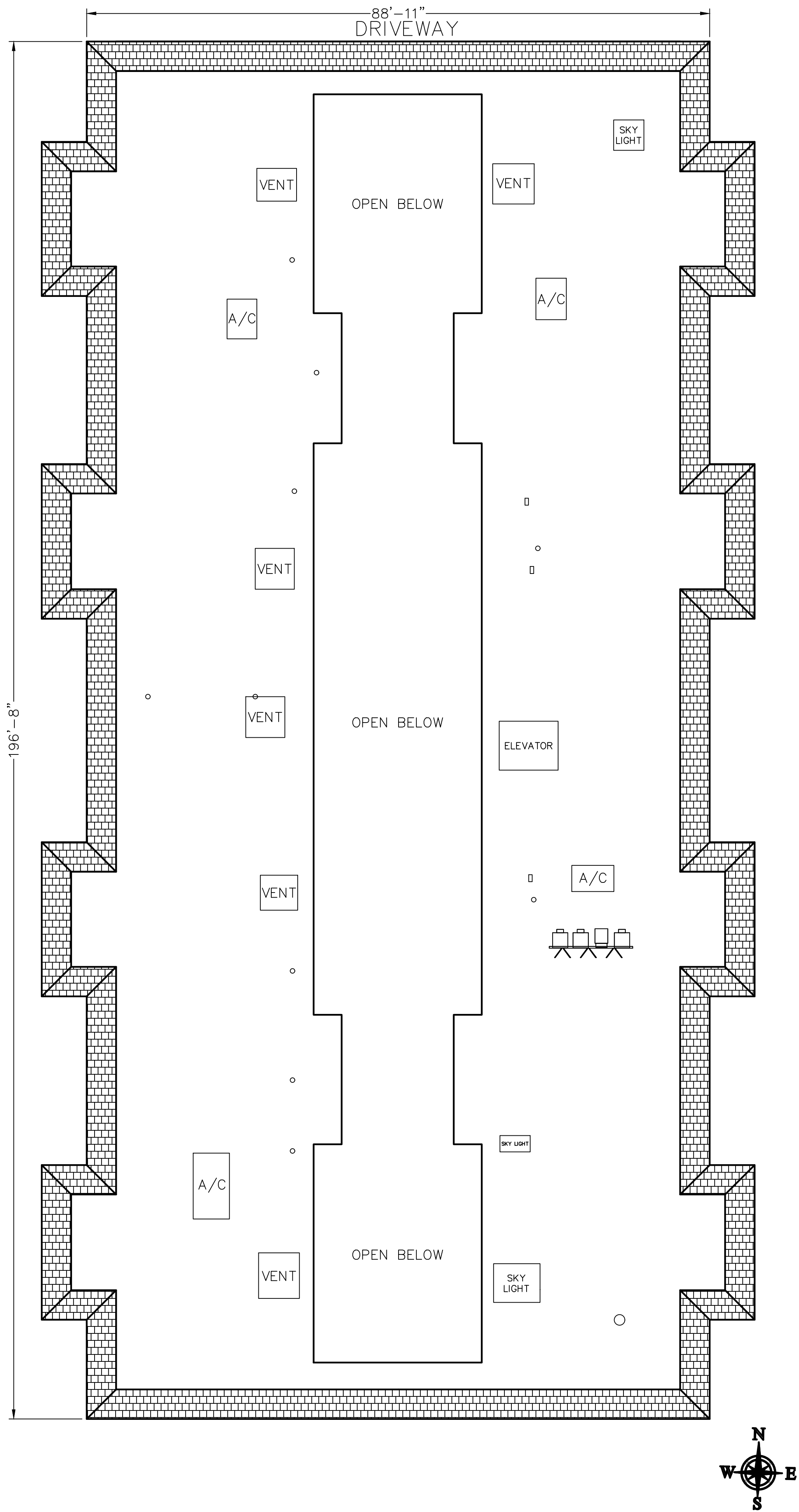
DRAWN BY: SCOTT
CHECKED BY: T.T.T.
SCALE: AS SHOWN
DATE: 12/21/16

SHEET TITLE

SITE PLAN
2399 VIA MARIPOSA
WEST VILLA CAPRI

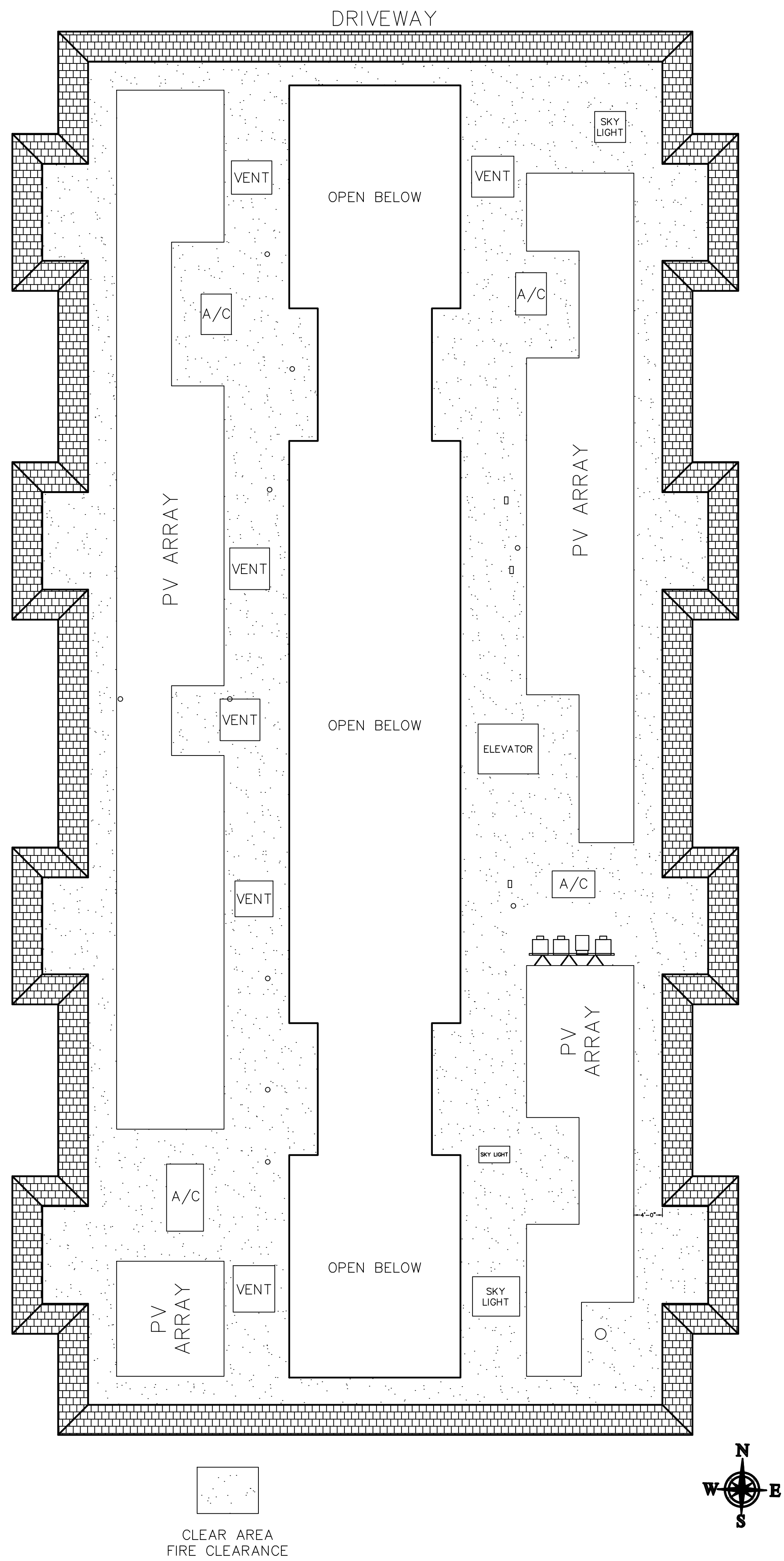
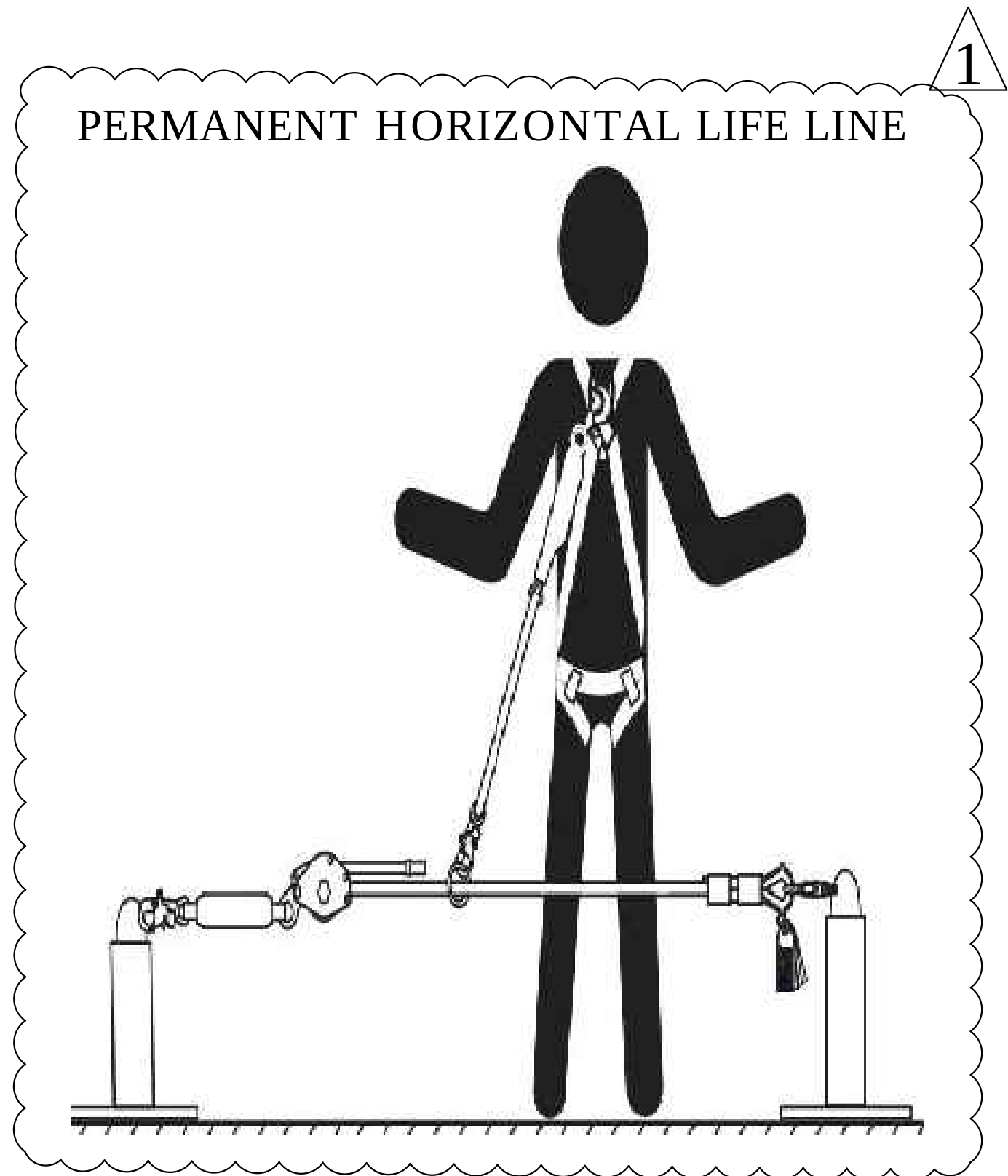
SHEET NUMBER

STR 1.3



1 BUILDING LAYOUT
SCALE: 3/32"=1'-0"

2399 VIA MARIPOSA WEST
FIRE CLEARANCE SITE PLAN



2 ARRAY LAYOUT
SCALE: 3/32"=1'-0"

PROJECT SITE

THIRD MUTUAL
LAGUNA WOODS VILLAGES

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SHEET TITLE
FIRE CLEARANCE
SITE PLAN
2399 VIA MARIPOSA
WEST VILLA CAPRI
SHEET NUMBER

S 1.3 F

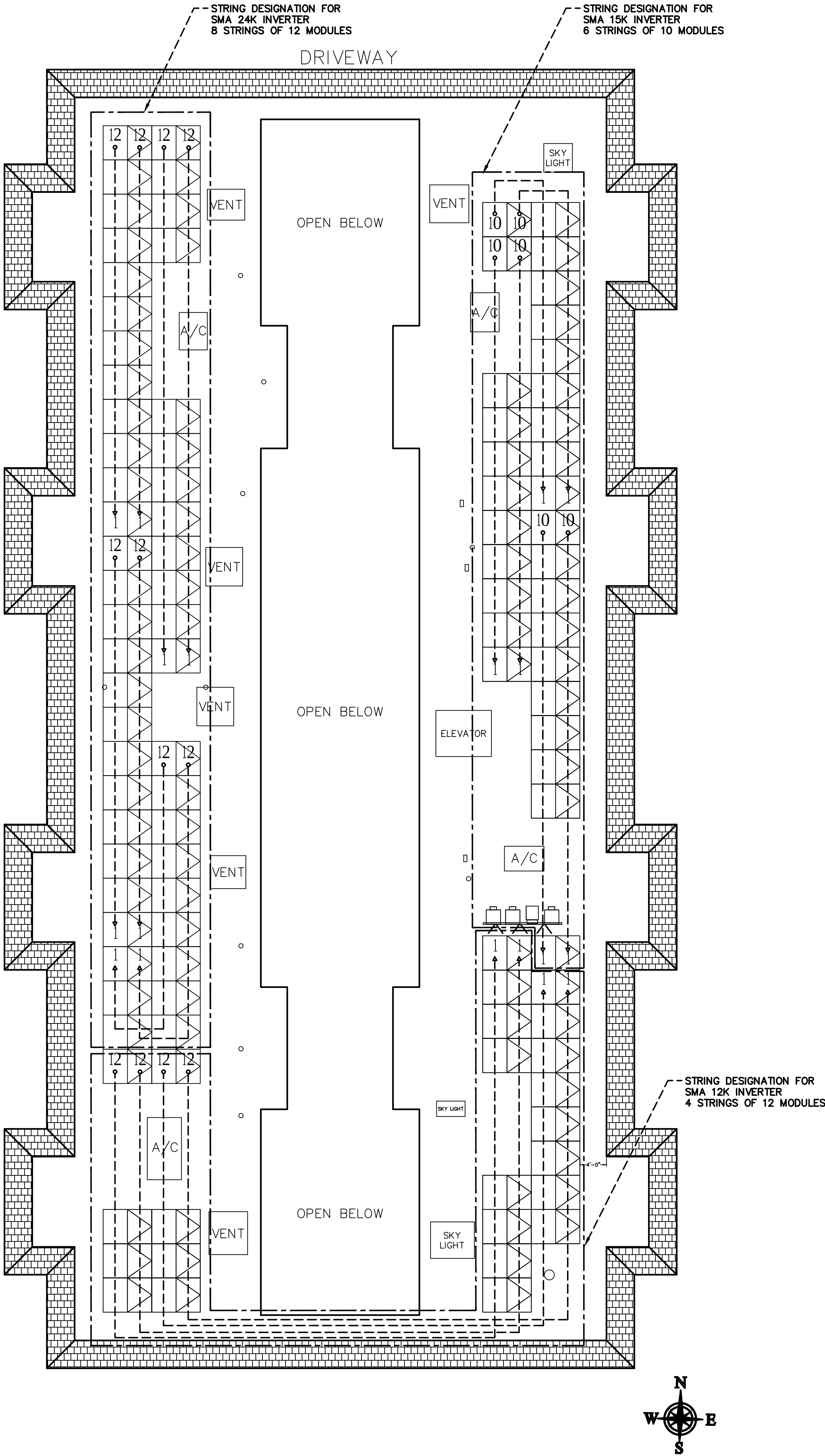
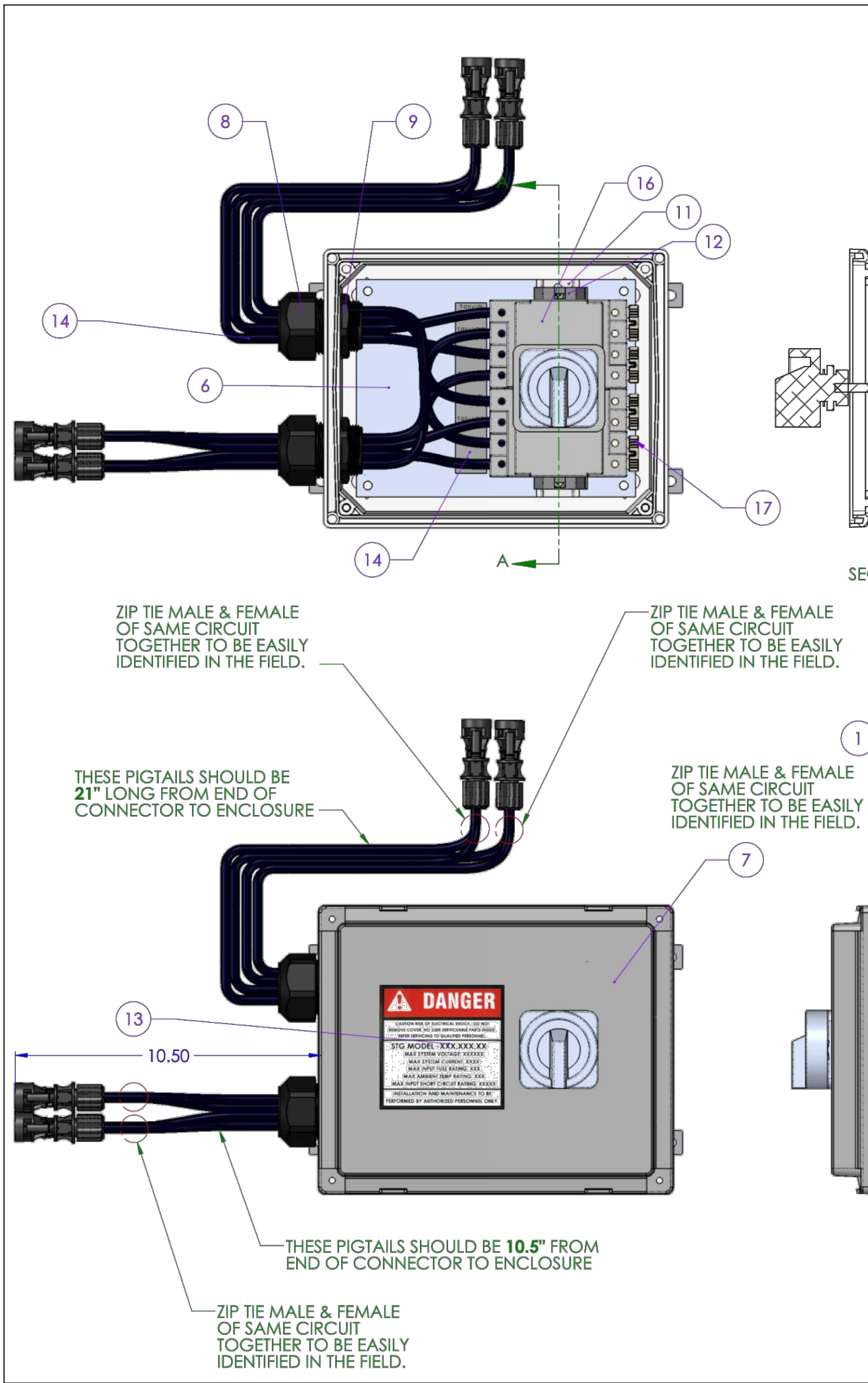
2399 VIA MARIPOSA WEST
STRING LAYOUT

SunPower® | Helix Roof Solution

HELIX ROOF Power Station



DC Branch	
Model	Helix plug-and-play DC Branch
String input options	2, 3, and 4 string
String fuse rating	15 A
Conductor size	#12 to #8 AWG
Conductor insulation rating	Sunlight-resistant PV Wire
Voltage rating	2000 VDC
Fusing	12 A
Connectors	String side: Tyco PV4 Solarlock Combined side: Amphenol H4-UTX-XL



PROJECT SITE

THIRD MUTUAL
LAGUNA WOODS VILLAGES

24351 EL TORO RD.
LAGUNA WOODS, CA 92637

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SHEET TITLE

STRING LAYOUT

SHEET NUMBER

S1.1 ST