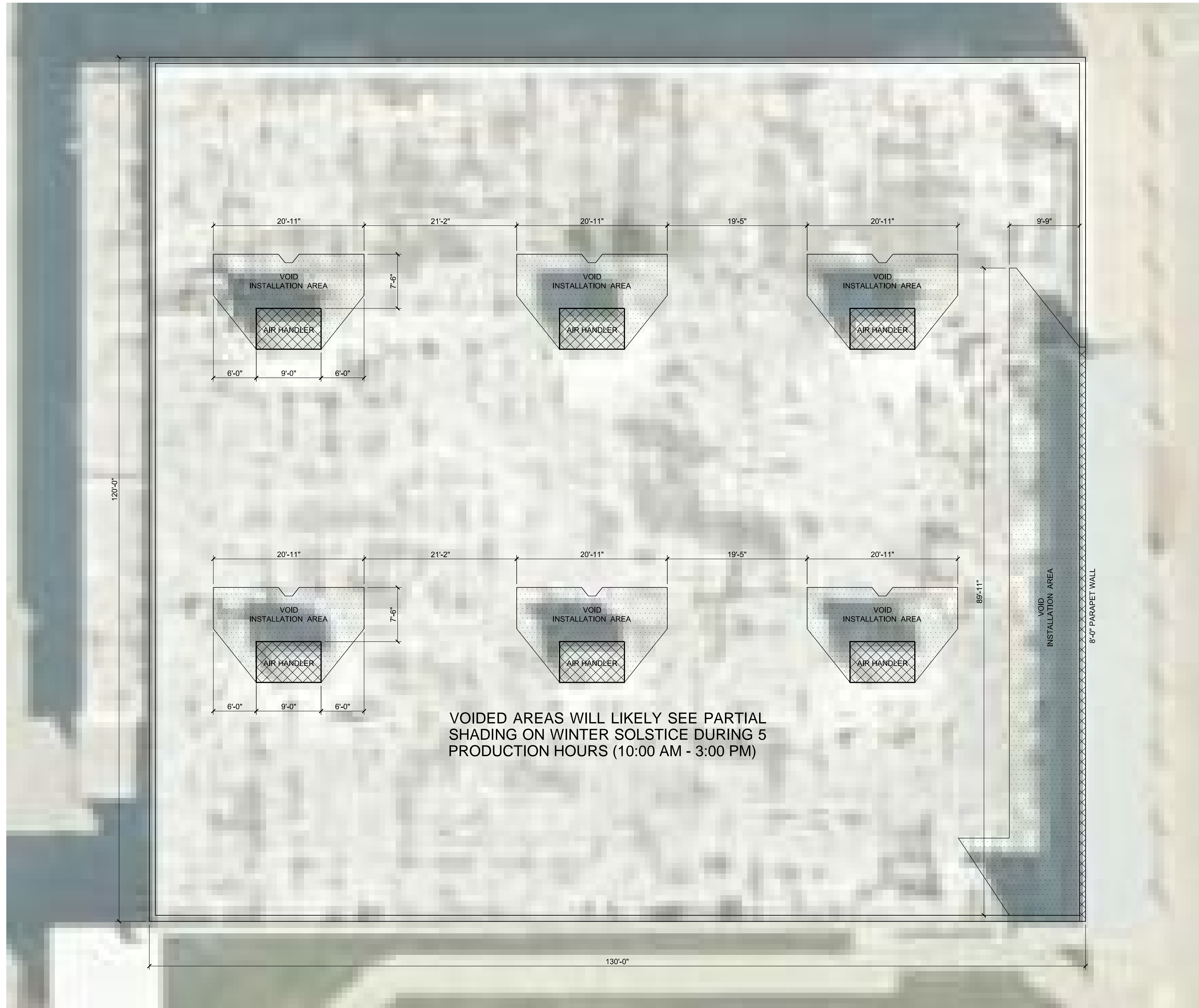


CONTACT DESIGN TEAM @  
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SUBJECT TO EJCDC C-700:  
 HTTP://GEZELMANPE.COM/REFERENCE/AG/C-700.PDF

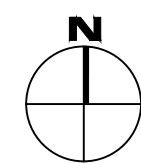
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VOIDED AREAS WILL LIKELY SEE PARTIAL SHADING ON WINTER SOLSTICE DURING 5 PRODUCTION HOURS (10:00 AM - 3:00 PM)

01 SHADING ANALYSIS FOR A PV INSTALLATION AREA  
 SCALE: 1/8" = 1'-0"



**SUN SHADING ANALYSIS :**

PARAMETER:

TRUE NORTH HAS NOT BEEN VERIFIED! EAST PARAPET WALL HAS BEEN ESTIMATED FROM PHOTOGRAPHS AT 8'-0" HGT. MECHANICAL UNITS HAVE BEEN SAID TO BE 6'-0" ABV FINISHED ROOF. VERIFY IN FIELD!

ROOF PLAN DIMENSIONS HAVE BEEN OBTAINED FROM GIS DATA AND PROPERTY RECORDS.

SOLAR PV COLLECTORS ESTIMATED TO BE INSTALLED AT MIN. 12" ABV FINISHED ROOF.

GPS COORDINATES: 27°50'58.56" N / 82°47' 21.12" W  
 DATE: WINTER SOLSTICE (DECEMBER 21ST)  
 TIME: LOCAL TIME

SUN POSITION (ROUNDED)

SOUTH: 180° AZIMUTH

FROM SUN HOUR: 10:00 AM, AZIMUTH 140°, ALTITUDE 27°  
 TO SUN HOUR: 03:00 PM, AZIMUTH 220°, ALTITUDE 27°

SOLAR RESOURCE: NON VOIDED AREAS ALLOW FOR 5 TOTAL UNSHADED HOURS AT @ WINTER SOLSTICE AND TIMES GIVEN.

ALL OTHER DAYS OF THE YEAR EXPECTED TO ACHIEVE MORE UNSHADED HOURS.

SHADED AREAS ON PLAN WERE OBTAINED FROM AUTOCAD SUN SIMULATION

**SHADING CALCULATION:**

$DISTANCE = (COS40^\circ \times (72'-12") / TAN 27^\circ)$   
 $DISTANCE = 7.5' = 7'-6"$

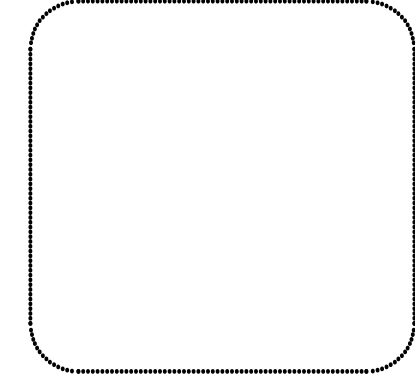


ALLEN GEZELMAN  
 16502 HANNA RD.  
 LUTZ, FLORIDA 33549

Allen@GezelmanPE.COM  
 www.GezelmanPE.com

PE. # 59180

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 PH: 813 919 9154  
 FX: 866 694 7251  
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 SOLAR SHADING ANALYSIS FOR A  
**RENEWABLE ENERGY SYSTEM**  
 SITUS: 7770 SEMINOLE BLVD, SEMINOLE, FL 33772

CONTRACTOR:

**Solar Energy Management**  
 Energy Saving Solutions

MATRIX CONSTRUCTION, INC.,  
 SEM, LLC  
 2802 LESLIE ROAD  
 TAMPA, FL 33619-2224  
 813-677-6655 (OFFICE)  
 866-820-0265 (TOLL-FREE FAX)

REVISIONS:	DATE

SHEET NAME:  
**PERMIT SET**  
 THIS IS SHEET 1 OF 1

DRAWN: SB CHECKED: AG

SHEET NO:  
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