

PROJECT DESCRIPTION:
 THIS GROUND MOUNTED, 8.5 KW PHOTOVOLTAIC (PV) SYSTEM IS TO BE INSTALLED IN NARRAGANSETT, RI. THE ENERGY PRODUCED BY THE PV SYSTEM SHALL BE INTERCONNECTED WITH THE UTILITY GRID THROUGH A LINE SIDE SPLICE. THE PROJECT DOES NOT INCLUDE ENERGY STORAGE BATTERIES.

GOVERNING CODES:
 2017 NATIONAL ELECTRICAL CODE
 2018 INTERNATIONAL BUILDING CODE (IBC)
 2018 INTERNATIONAL RESIDENTIAL CODE (IRC)
 2019 RI STATE BUILDING CODE, ONE AND TWO FAMILY DWELLING CODE ASCE 07-10

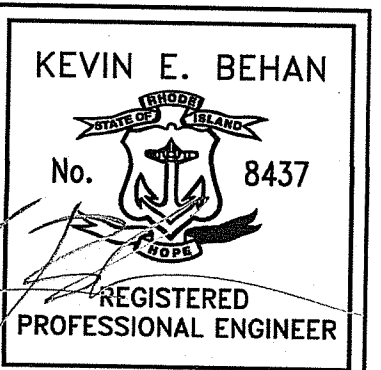
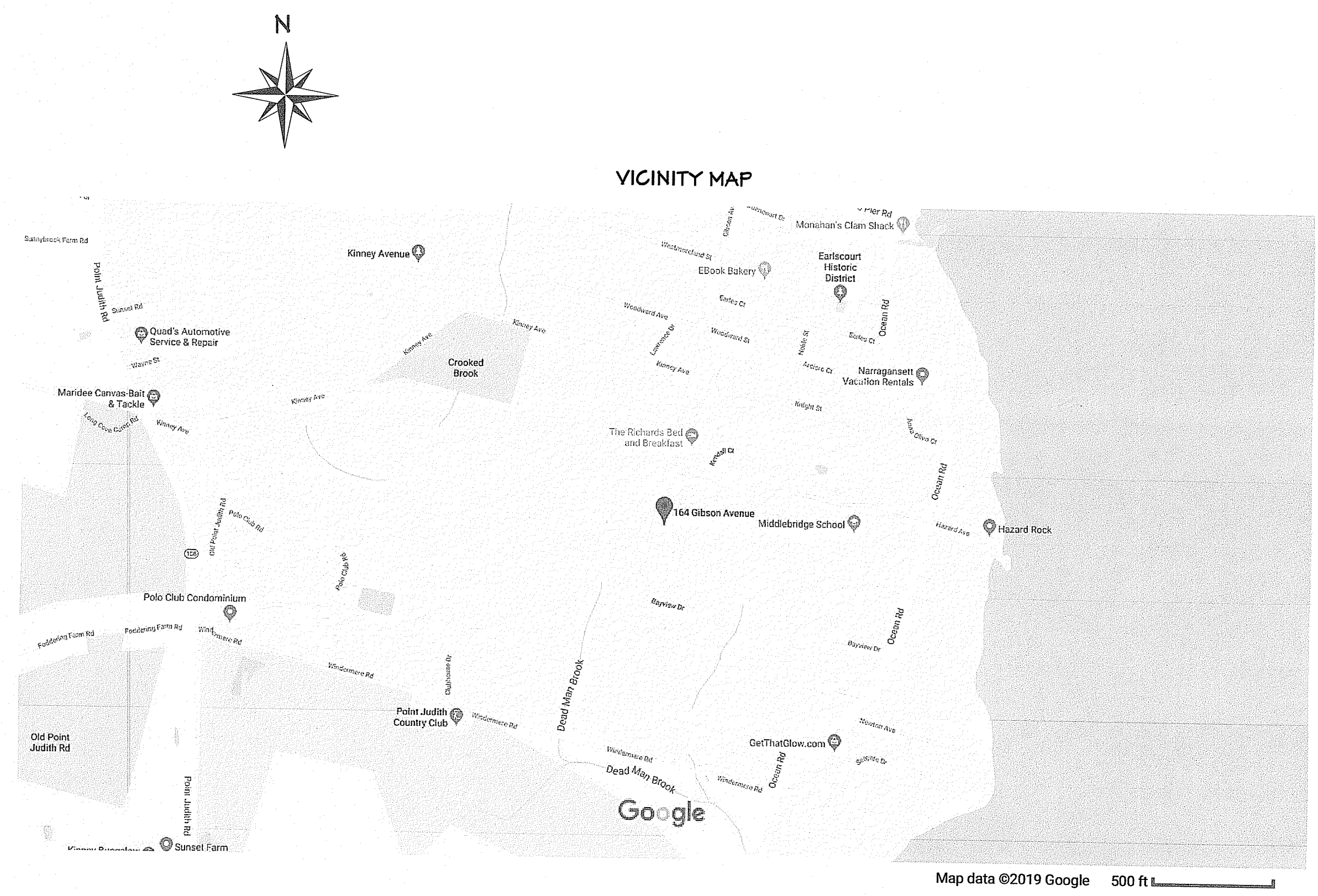
DESIGN LOADS
 ROOF LIVE LOADS: 20 PSF
 PV SYSTEM DEAD LOADS: 2.41PSF (INCLUDES SOLAR ARRAY, RAILS, FLASHINGS)

WIND LOADS:
 OCCUPANCY CATEGORY: I
 TERRAIN CATEGORY: B
 WIND SPEED: 120 MPH
 GROUND ELEV.: 74 FT
 MEAN ROOF HEIGHT: 10.5 FT
 WIND LOADS DETERMINED USING ASCE 7-10 AND 2019 RI ONE AND TWO FAMILY DWELLING CODE

SEISMIC LOADS: PER ASCE 7-10 AND 2019 RI STATE BUILDING CODE

SNOW LOADS:
 GROUND SNOW LOAD: 30 PSF
 EXPOSURE FACTOR: 0.9
 THERMAL FACTOR: 1.2
 IMPORTANCE FACTOR: 0.8
 ROOF SLOPE FACTOR: 1.0
 ROOF SNOW LOADS: 18.1 PSF

- CONSTRUCTION NOTES:**
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO INITIATING CONSTRUCTION
 2. CONTRACTOR SHALL REVIEW ALL MANUFACTURER INSTALLATION DOCUMENTS PRIOR TO INITIATING CONSTRUCTION
 3. ALL EQUIPMENT SHALL BE LISTED BY U.L. (OR EQUIV) AND LISTED FOR ITS SPECIFIED APPLICATION
 4. ALL EQUIPMENT SHALL BE RATED FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED
 5. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS
 6. ACCESS TO ELECTRICAL COMPONENTS OVER 150 VOLTS TO GROUND SHALL BE RESTRICTED TO QUALIFIED PERSONNEL
 7. ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 VOLTS, 90C AND WET ENVIRONMENT UNLESS OTHERWISE NOTED
 8. WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, CONTRACTOR SHALL SIZE THEM ACCORDING TO APPLICABLE CODES
 9. P.V. MODULE, RACKING RAILS, AND GROUNDING ELECTRODE CONDUCTORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUF. AND CODE REQUIREMENTS
 10. ALL JUNCTION BOXES, COMBINER BOXES, AND DISCONNECTS SHALL BE INSTALLED IN AN ACCEISSIBLE LOCATION
 11. WORKING SPACE AROUND ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26



Kevin E Behan
 2022.06.30 09:47:38 -04'00

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CLIENT
 Renewable Energy
 Solutions of New
 England, Inc

PROJECT
 Vargas
 164 Gibson
 Avenue
 Narragansett, RI
 02882

PROJECT NO.
 2021.311

SHEET SIZE
 ARCH D - 24X36

ISSUE
 6.30.2022

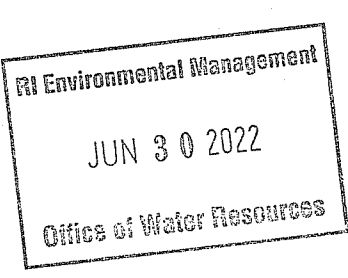
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 KEB

SCALE
 N/A

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: AUG 22 2022 FILE #: 22-0337
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wemack

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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NOTE PER DEM:
 Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site



COVER

BEHAN
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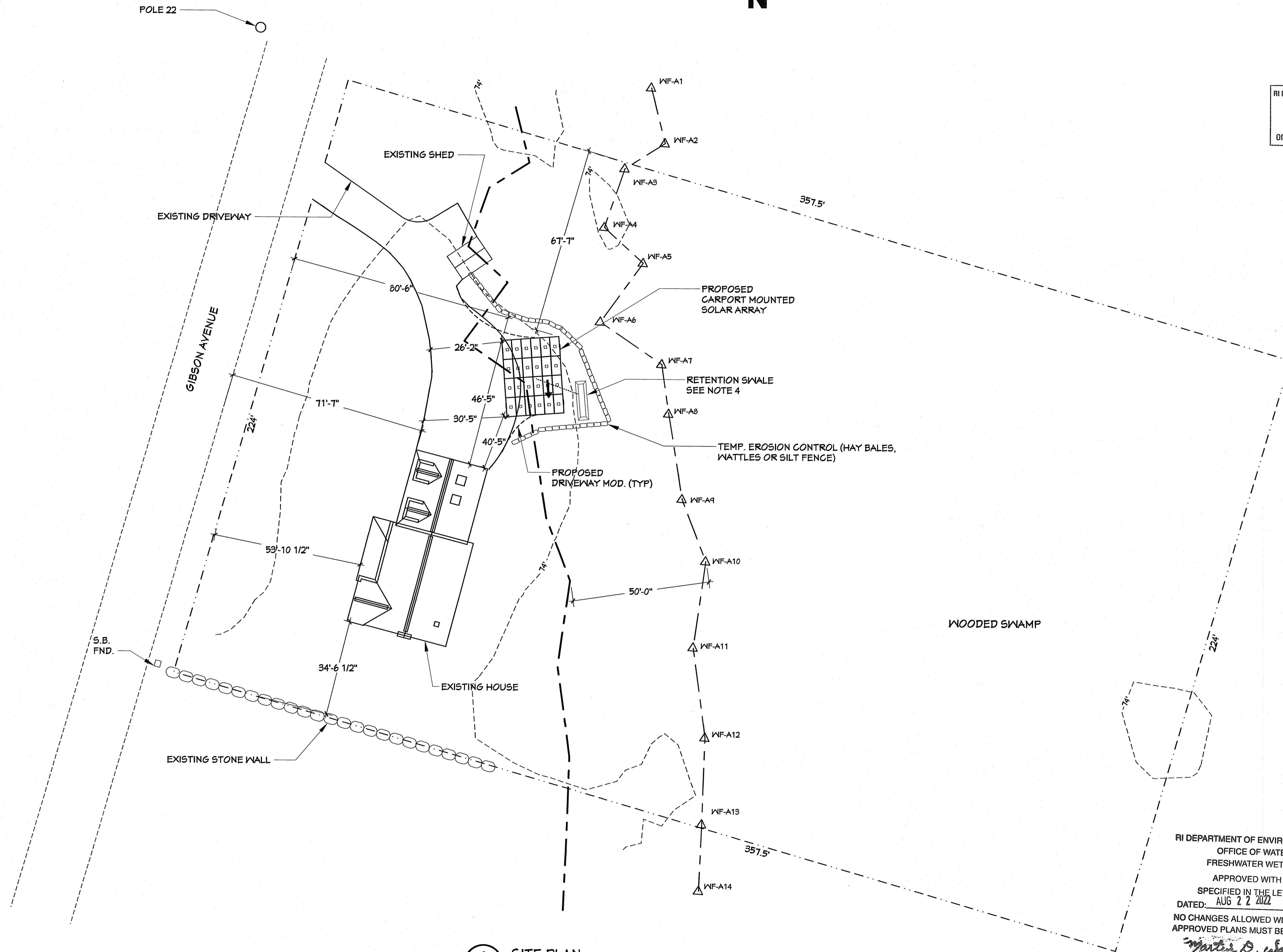
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SITE PLAN

S.02

- NOTES:
- 1) PROPOSED CARPORT WILL BE LOCATED IN WAY OF EXISTING LAWN. EXISTING DRIVEWAY WILL BE EXTENDED WITH PERVIOUS MATERIALS UNDER CARPORT.
 - 2) APPROX. SIZE OF CARPORT SOLAR ARRAY IS 580 S.F.. APPROX. SIZE OF PERVIOUS PARKING AREA IS 600 S.F..
 - 3) ALL CONSTRUCTION ACTIVITY SHALL NOT BE WITHIN 10 FEET OF KNOWN WETLAND BOUNDARY.
 - 4) RETENTION SWALE: 2'x12' BOTTOM, 0.5 FT/FT SLOPE SIDES, 2' DEEP
 - 5) THE INFORMATION ON THIS PLAN WAS OBTAINED BY A COMBINATION OF ON-SITE SURVEY, AERIAL PHOTOGRAMMETRY, AND REPRODUCTION FROM PRIOR PLANS.

RI Environmental Management
JUN 30 2022
Office of Water Resources



1 SITE PLAN
S-02 1" = 20'-0"

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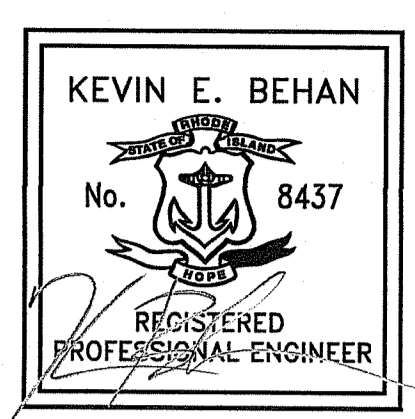
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LEGEND

- PROPERTY BOUNDARY
- WETLAND BOUNDARY
- WETLAND 50' PERIMETER
- ELEVATION CONTOUR
- EROSION CONTROL MAT'L
- EXISTING ROAD
- STONE WALL
- △ WF-XXX WETLAND FLAG



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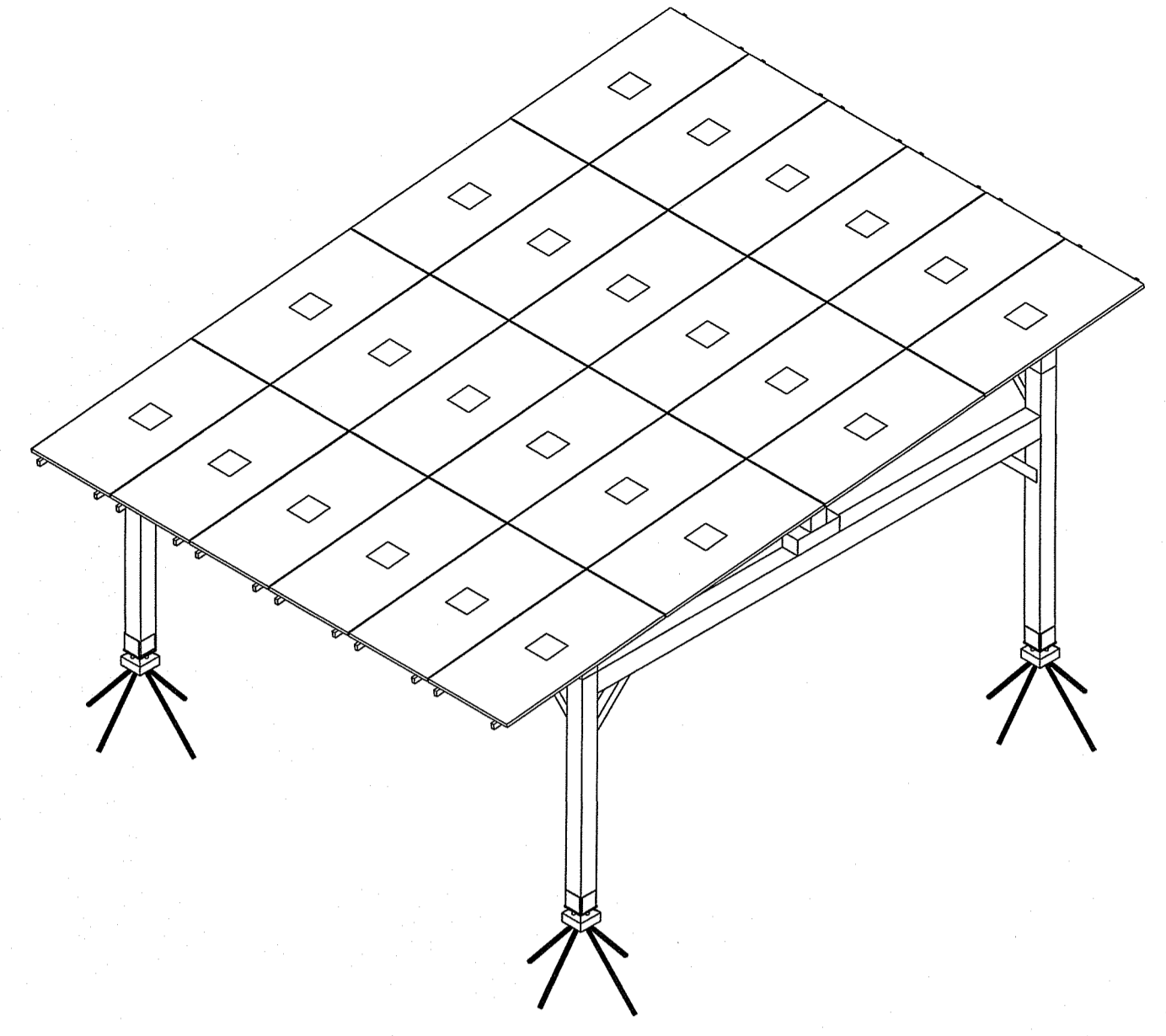
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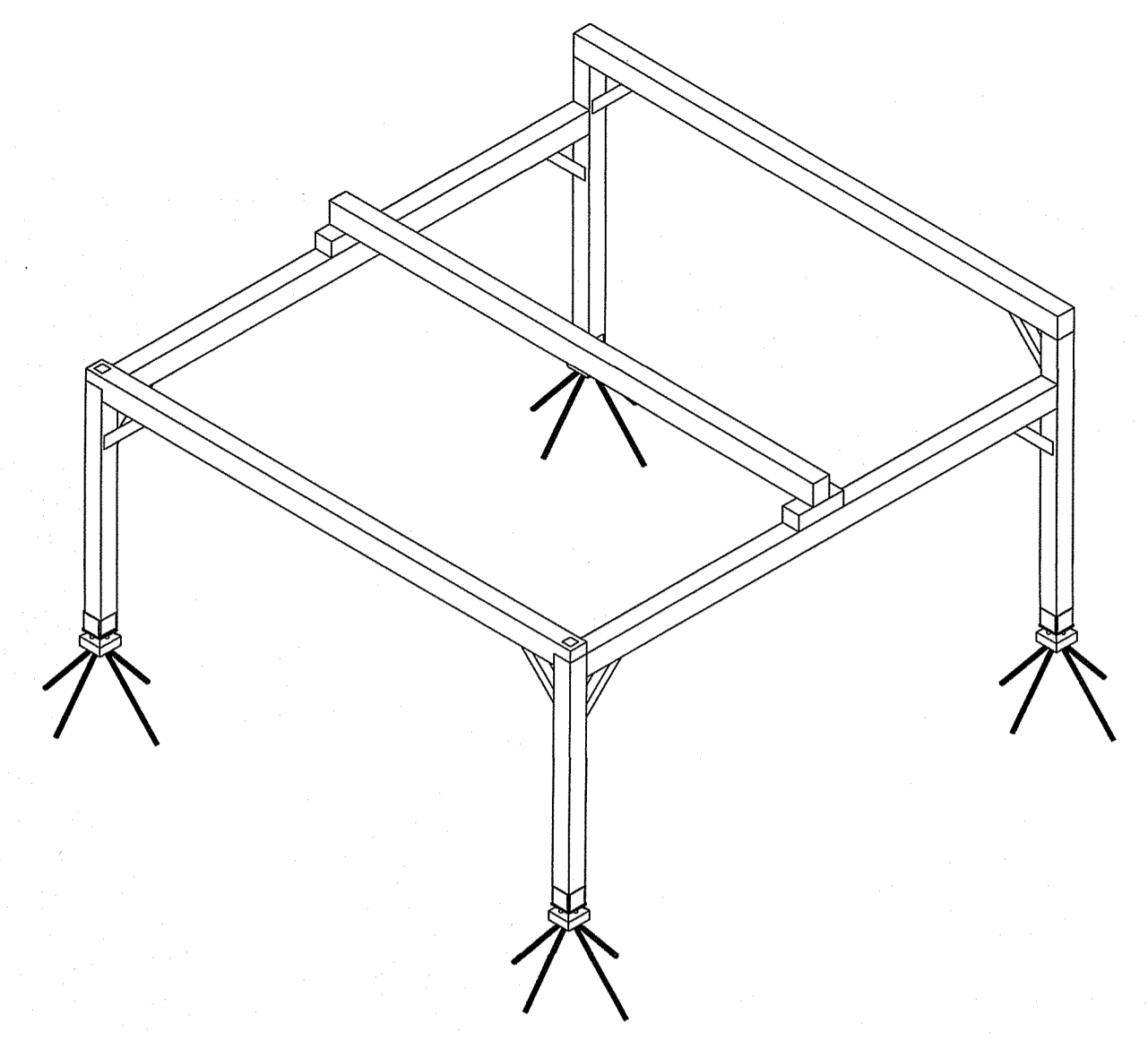
TIMBER FRAME
CARPORT
DETAILS

- NOTES:
- 1) TIMBER SIZED SHOWN ON SHEETS 5, 6 AND 7 ARE MINIMUM SIZES. LARGER SIZE TIMBERS, WITH INCREASED CONNECTOR SIZES AS NECESSARY, CAN BE SUBSTITUTED AS DESIRED
 - 2) FOOTINGS ARE DIAMOND PIER DP-75-50. INSTALL PER MFR. INSTRUCTIONS.
 - 3) SEE SEPARATE STRUCTURAL CALCULATIONS FOR TIMBER FRAME AND FOOTINGS
 - 4) REFER TO SHEET 3 FOR PANEL ORIENTATION AND SHEET 7 FOR MFR RAIL/PANEL ASSEMBLY INSTRUCTIONS.
 - 5) BEVEL PNs 4&5 TO MATCH ANGLE OF SOLAR MOUNTING RAIL AND ALLOW ATTACHMENT OF L-FOOT

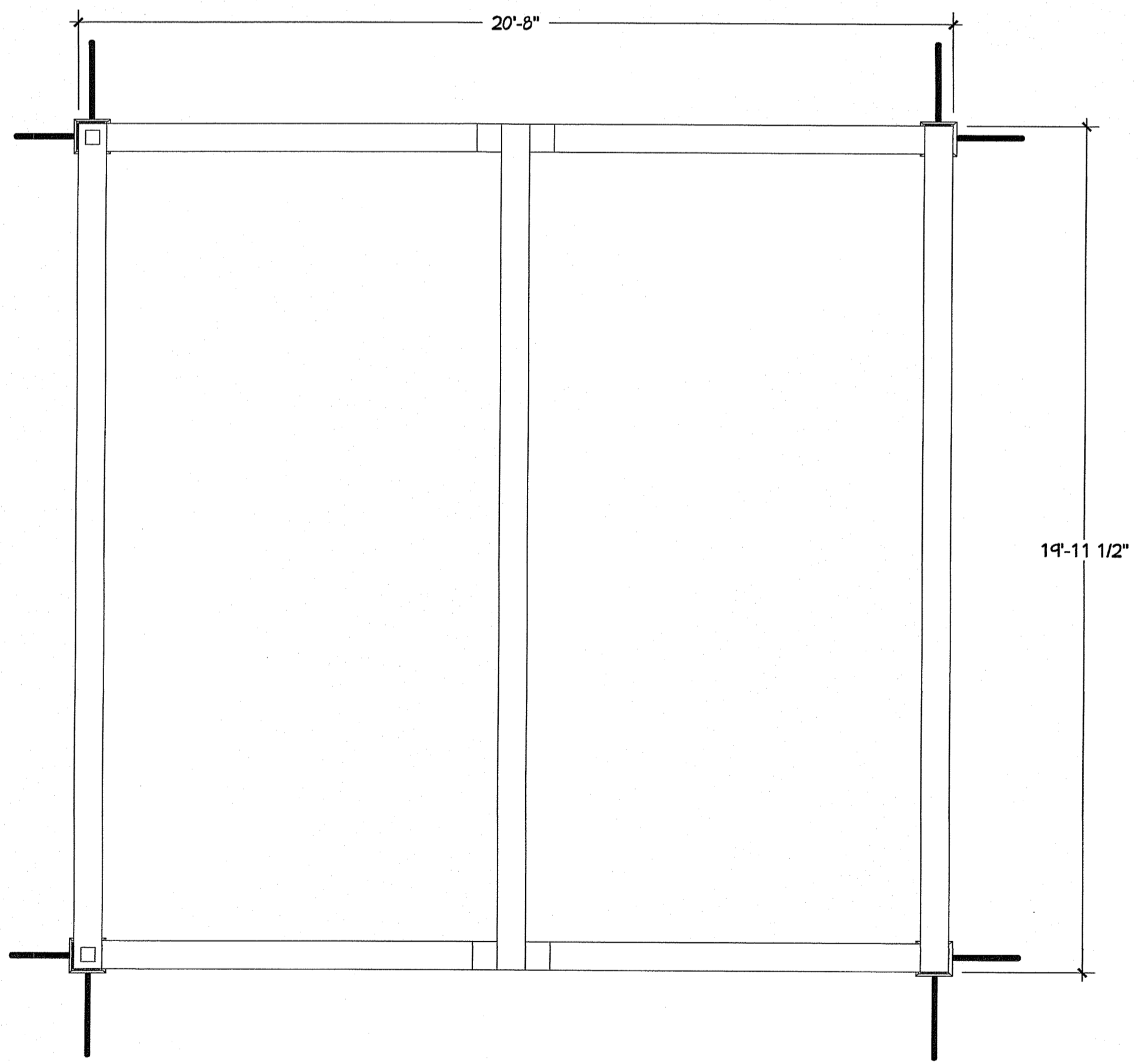
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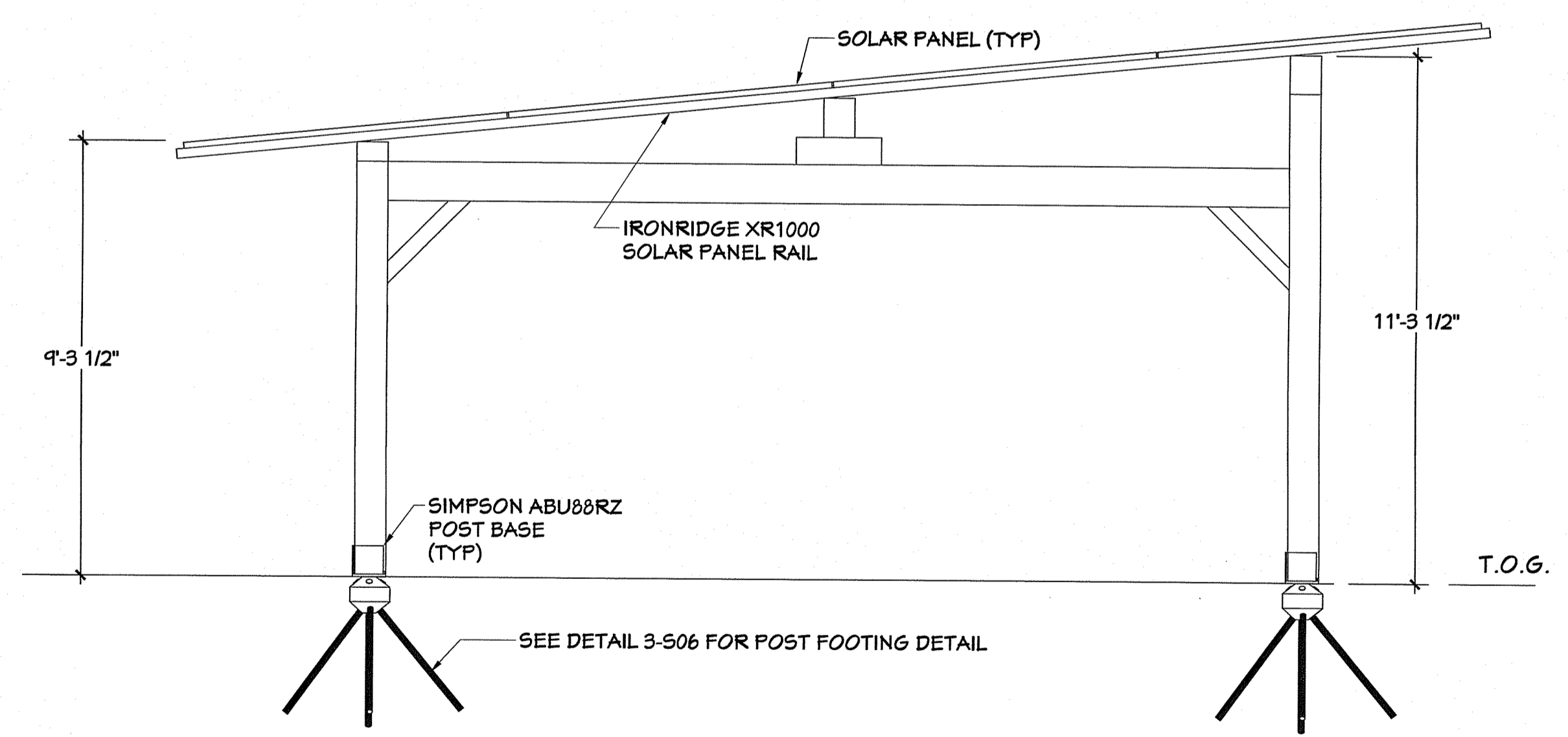
ISOMETRIC VIEW
SCALE: 1"=5'-0"



ISOMETRIC VIEW - PANELS NOT SHOWN
SCALE: 1"=5'-0"



1 PLAN VIEW
5-03 3/16" = 1'-0"



2 ELEVATION VIEW
5-03 3/16" = 1'-0"

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