

GENERAL NOTES:

DESIGN CRITERIA

THE STRUCTURAL SYSTEM FOR BUILDING DEPICTED HERE ON HAS BEEN DESIGNED ACCORDING TO THE 2023 8TH EDITION OF THE FLORIDA BUILDING CODE, ASCE 7-22 AND THE 2020 ALUMINUM DESIGN MANUAL.

THE STRUCTURE HAS BEEN DESIGNED TO RESIST THE FOLLOWING SUPERIMPOSED LOADS.

ROOF DEAD: 2 PSF + SELF-WEIGHT

ROOF LIVE: 20 PSF

WIND LOADS ON THE STRUCTURE HAVE BEEN CALCULATED IN ACCORDANCE WITH ASCE 7-22 FOR THE FOLLOWING: BASIC WIND SPEED: 136 MPH (3 SECOND GUST); RISK CATEGORY: II; EXPOSURE CATEGORY: B, PARTIALLY OPEN ROOF 30% PERCENT SOLID. ENCLOSURE CLASSIFICATION PER ASCE 7-22, TABLE 26-13-1 (FOR 4-SIDED RECTANGULAR LOUVERED AWNINGS)

LOAD COMBINATIONS:

D+0.6W 0.6D+0.6W D+L D+0.75L+0.75(0.6W) D+L D+0.75L+0.75(0.6W)
DESIGN OF LOUVERED RIGID CANOPY IS PER SECTION 3105.5.1 OF THE FBC. RIGID AWNINGS AND CANOPY SHUTTERS, LOUVERED BLADES SHALL BE REPOSITIONED TO THE VERTICAL OPEN POSITION DURING PERIODS OF HIGH WIND VELOCITY. UNIT IS EQUIPPED WITH A WIND SENSOR WHICH WILL OPEN LOUVERS AT 45MPH.

PER FBC SECTION 3105.5.3, CONTRACTOR SHALL POST WITH A LEGIBLE AND READILY VISIBLE DECAL OR PRINTED INSTRUCTIONS TO THE OWNER OR TENANT TO REMOVE OR REPOSITION THE STRUCTURE OR PART THEREOF DURING SUCH PERIODS OF TIME AS DESIGNATED BY THE US WEATHER BUREAU AS BEING A HURRICANE WARNING OR ALERT. THE WARNING LABEL SHOULD READ AS FOLLOWS:

"THIS RIGID AWNING MUST HAVE LOUVERED BLADES REPOSITIONED TO THE VERTICAL POSITION DURING A HURRICANE WARNING OR ALERT AS DESIGNATED BY THE U.S. WEATHER BUREAU (FBC SECTION 3105.5.3)."

A CONTINUOUS LOAD PATH BETWEEN FOUNDATIONS, COLUMNS, AND BEAMS ARE INTENDED BY THESE DRAWINGS AND SHALL BE FIELD VERIFIED.

THE LOUVERED ROOFING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH STRUXURE LOUVERED ROOFING SYSTEM.

DEG IS ONLY RESPONSIBLE FOR THE STRUCTURAL FRAMING. DEG IS NOT RESPONSIBLE FOR THE FUNCTIONING OF THE LOUVERS OR WATERPROOFING.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE SUITABLE SEQUENCING, MEANS AND METHODS OF CONSTRUCTION INCLUDING, BUT NOT LIMITED TO THE ADDITION OF NECESSARY SHORING, TIE DOWNS, TEMPORARY BRACING, ETC.

THE INFORMATION USED AND CONTAINED HEREIN IS BASED ON CONTRACTOR SUPPLIED DATA AND MEASUREMENTS. DESTEFANO ENGINEERING GROUP, PL (DEG) HAS NOT VISITED THIS JOB SITE. DIMENSIONS AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED. DEG ASSUMES NO RESPONSIBILITY OR LIABILITY IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. DEG SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO RE-EVALUATE OUR WORK UPON DISCOVERY OF ANY INACCURATE INFORMATION PRIOR TO MODIFICATION OF EXISTING FIELD CONDITIONS, FABRICATION, AND/OR INSTALLATION OF MATERIALS.

MATERIAL SPECIFICATIONS

ALUMINUM:

ALUMINUM SHALL BE A MINIMUM OF 6063-T6 UNLESS NOTED OTHERWISE

ALUMINUM PLATE TO BE 6061-T6 ALLOY

FINISH COLOR TO BE SELECTED BY OWNER FROM MANUFACTURERS STANDARD COLORS FOR STANDARD EXTRUSIONS.

CONCRETE FASTENERS TO BE MINIMUM 316 STAINLESS STEEL TITEN HD AS MANUFACTURED BY SIMPSON STRONG TIES OR APPROVED EQUAL.

ALL SMS SCREWS ARE 410 STAINLESS #12 x 1" SELF-TAPPING METAL SCREWS (SMS) TYPICAL UNLESS OTHERWISE NOTED.

EXTRUDED STRUCTURAL TUBE OR PIPE: ALLOY SHALL BE 6061-T6, 6005-T6, 6063-T6, OR AS NOTED ON DRAWINGS AND CONFORMING TO ASTM B429.

ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED.

FOUNDATIONS

SEE STRUCTURAL DRAWINGS AND STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION.

BY VISUAL OBSERVATION, SOIL AT THE SITE IS SAND (OR SAND AND ROCK) WITH AN ASSUMED SOIL BEARING CAPACITY OF 2000 PSF.

PERFORM ALL CONCRETE WORK IN ACCORDANCE WITH ACI 318, THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.

CONCRETE SHALL BE AN APPROVED MIX PROPORTIONED TO ACHIEVE STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE MIX 4000 PSI FOR FOUNDATIONS

CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM C-94 FOR MEASURING, MIXING, TRANSPORTING, ETC. MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS.

REINFORCING STEEL:

REINFORCING STEEL: ASTM A615, GRADE 60 DEFORMED NEW BILLET STEEL CONFORMING TO ACI 301, 315, 318, AND CRSI MANUAL OF STANDARD PRACTICE. REINFORCING STEEL SHALL BE FREE FROM OIL, SCALE AND RUST, AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH, 3 IN

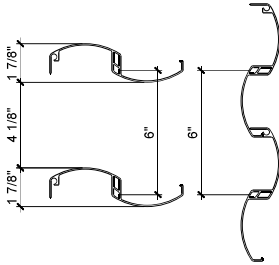
GENERAL CONDITIONS

IF THERE ARE ANY DISCREPANCIES HEREIN, CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.

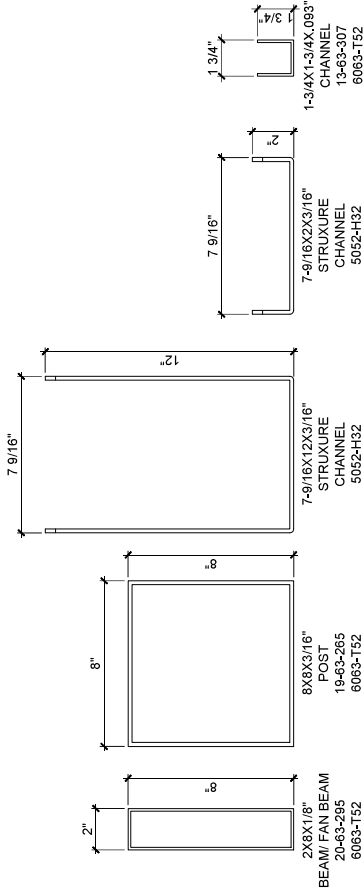
THIS DESIGN DOES NOT CONSTITUTE THE ENGINEERING OF ANY OTHER STRUCTURES THAT ARE NOT SPECIFICALLY MENTIONED HEREIN. IF THERE ARE ANY DISCREPANCIES THEREIN, CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.

ALL WORK PREPARED BY DE STEFANO ENGINEERING GROUP, PL (DEG), IS THE PROPERTY OF DEG AND MAY ONLY BE USED FOR ITS INTENDED USE, THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM, PREPARED BY DEG AND DEG'S CONSULTANTS ARE INSTRUMENTS OF SERVICE THROUGH WHICH THE WORK TO BE EXECUTED BY CONTRACTOR, AS DESCRIBED REMAIN THE PROPERTY OF DEG. SAID WORK MAY NOT BE USED AT ANY OTHER LOCATION OR FOR ANY OTHER USE WITHOUT PRIOR WRITTEN AUTHORIZATION.

DEG WILL HAVE NO RESPONSIBILITY FOR THE CONTRACTOR'S, CLIENT'S OR OTHER ENTITIES' MEANS, METHODS, TECHNIQUES, AND PROCEDURES USED IN CONSTRUCTION, AND WILL NOT BE HELD LIABLE FOR THE CONTRACTOR'S INADEQUATE OR UNSATISFACTORY PERFORMANCE OF THE WORK.



1 LOUVER
ST SCALE: 2" = 1'-0"



3 STRUCTURAL COMPONENTS

ST SCALE: 2" = 1'-0"



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S2

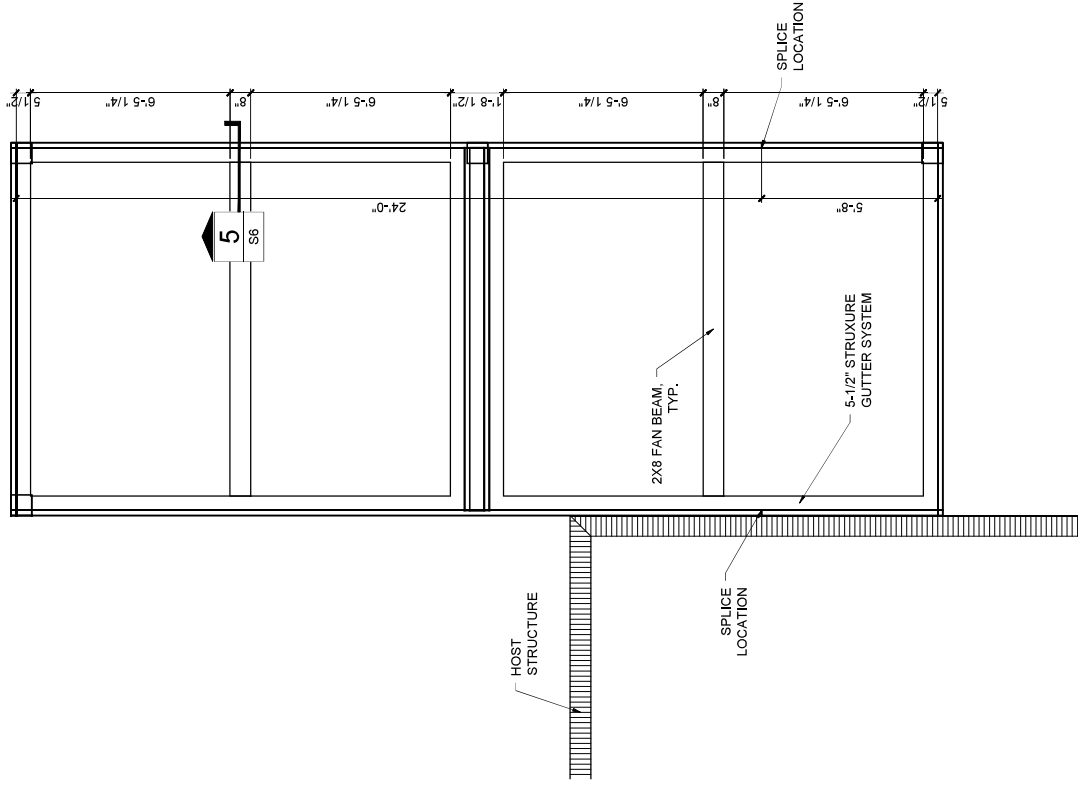
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ORLANDO OUTDOOR LIVING



1 REFLECTED CEILING PLAN

S3 SCALE: 1/4" = 1'-0"

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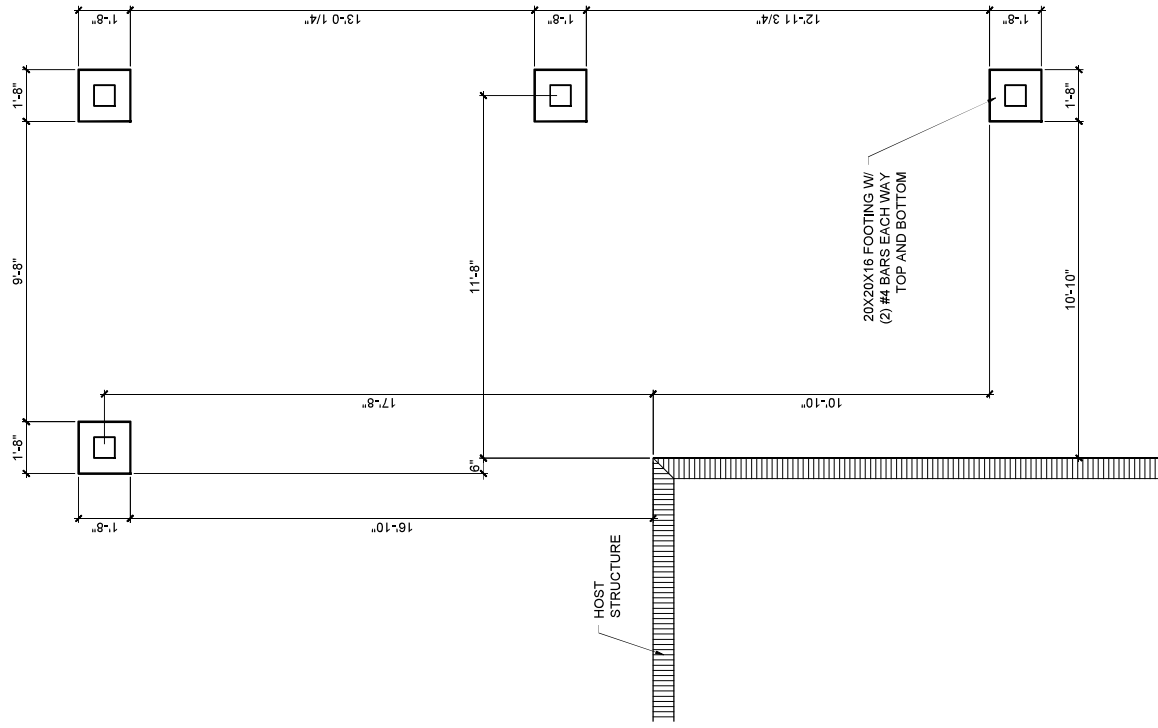


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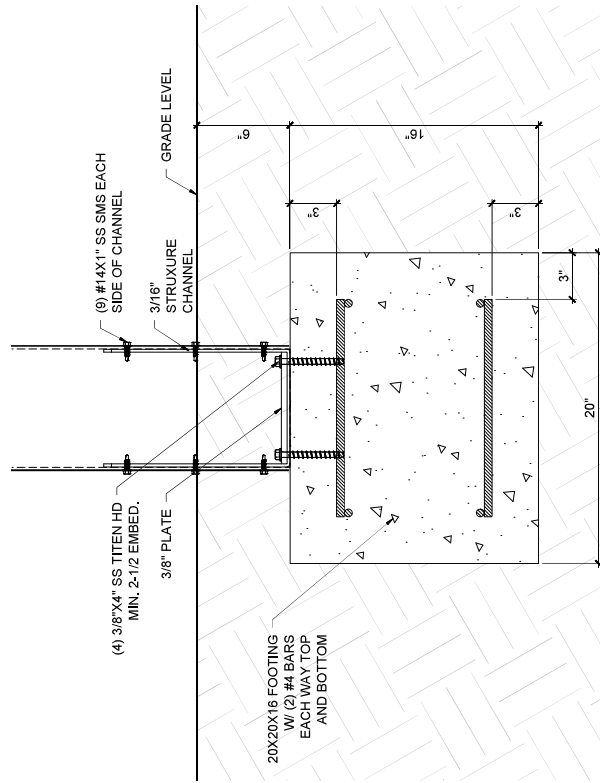
1 FOUNDATION PLAN

S4	SCALE: 1/4" = 1'-0"
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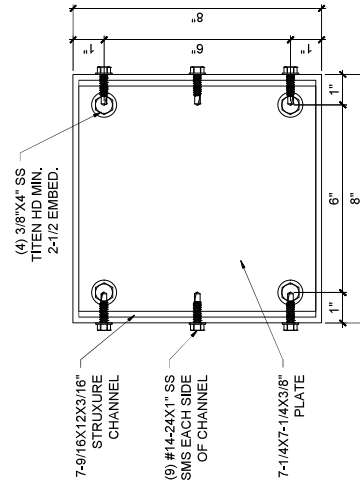
4 FOOTING DETAIL

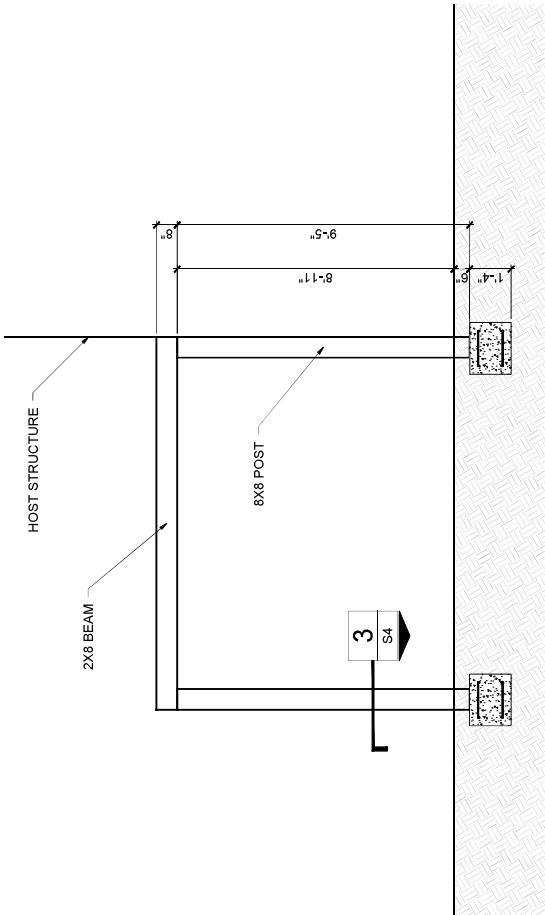
S4	SCALE: 1-1/2" = 1'-0"
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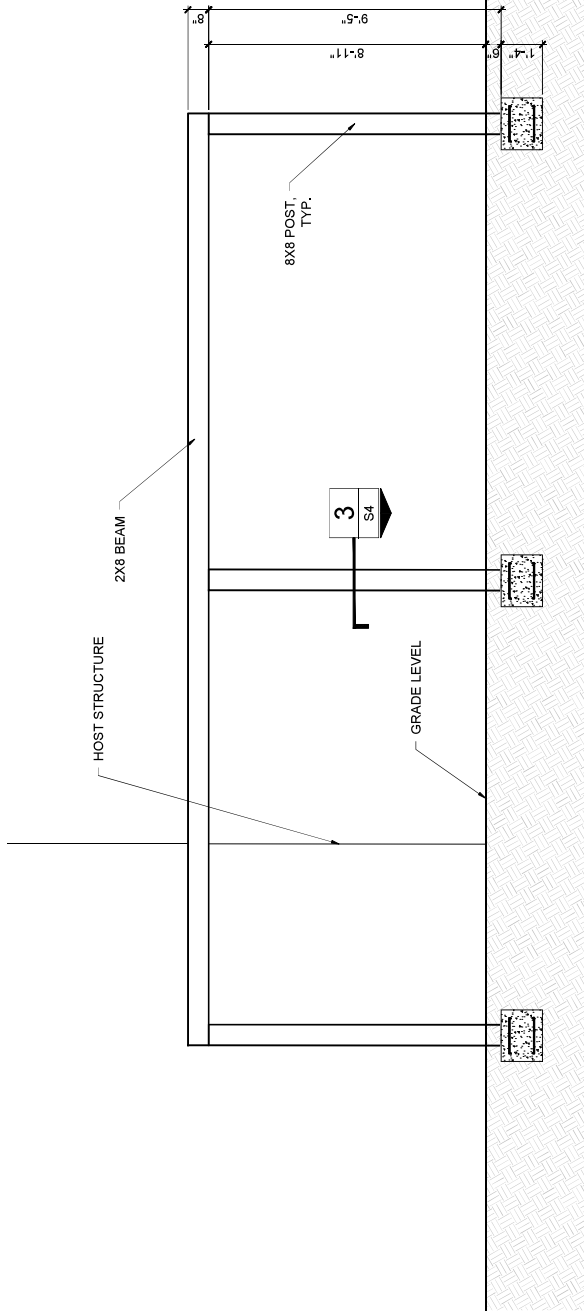
3 POST BASE SECTION

S4 SCALE: 3" = 1'-0"





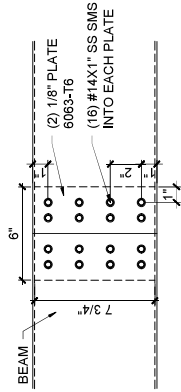
2 SIDE ELEVATION
SCALE: 1/4" = 1'-0"



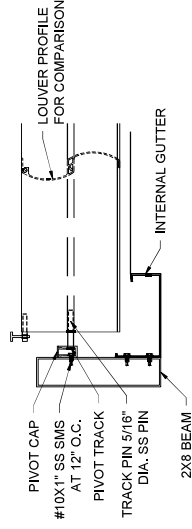
1 FRONT ELEVATION
SCALE: 1/4" = 1'-0"

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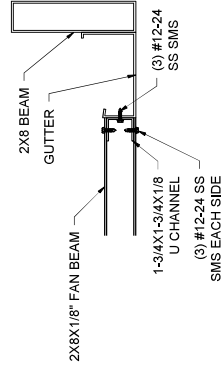
S5
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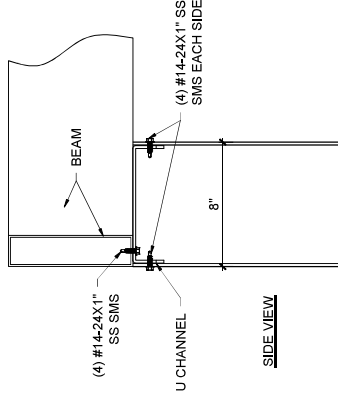
7 BEAM SPLICE DETAIL
S6 SCALE: 1/12" = 1'-0"



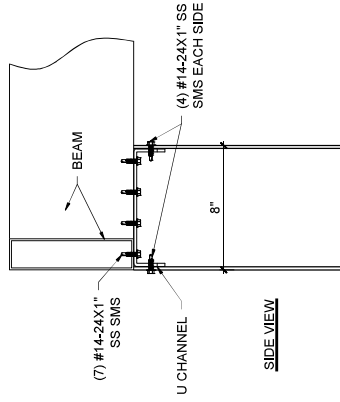
6 LOUVER MOUNT DETAIL
S6 SCALE: 1/12" = 1'-0"



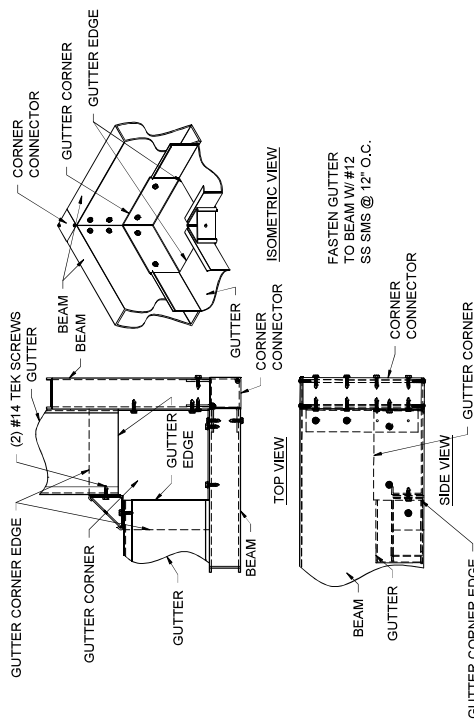
5 FAN BEAM SECTION
S6 SCALE: 1/12" = 1'-0"



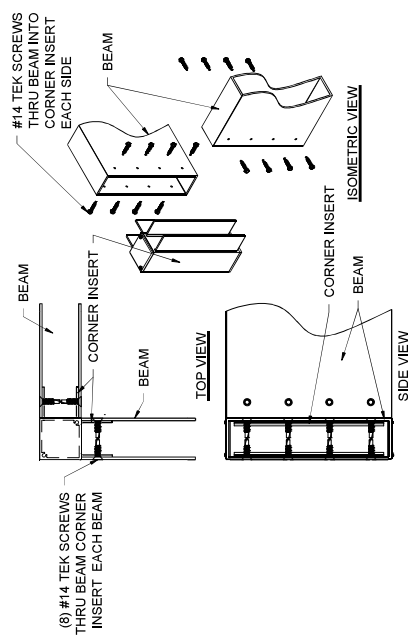
4 BEAM TO POST AT MID-BEAM
S6 SCALE: 1/12" = 1'-0"



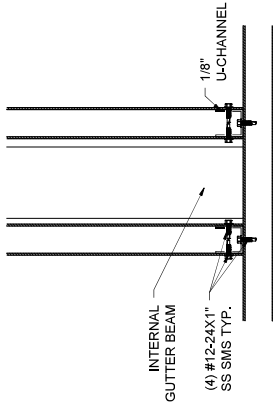
3 BEAM TO POST DETAIL
S6 SCALE: 1/12" = 1'-0"



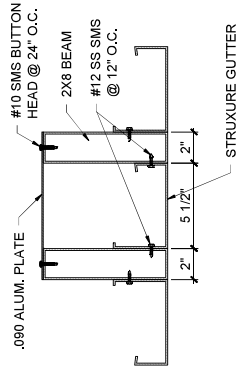
2 GUTTER CORNER ASSEMBLY
S6 SCALE: 1/12" = 1'-0"



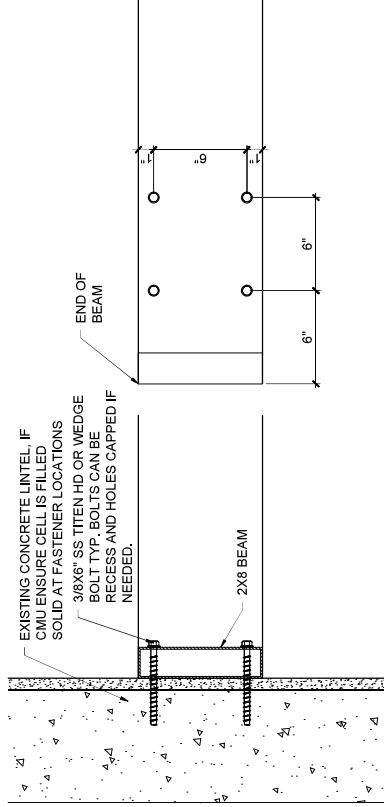
1 BEAM CORNER ASSEMBLY
S6 SCALE: 2" = 1'-0"



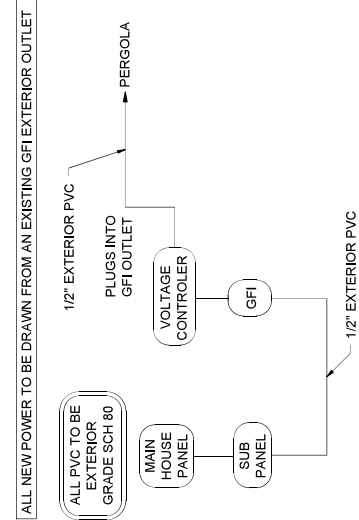
4 BEAM CHASE TO BEAM DETAIL
 S7 SCALE: 1-1/2" = 1'-0"



2 BEAM CHASE SECTION
 S7 SCALE: 1-1/2" = 1'-0"

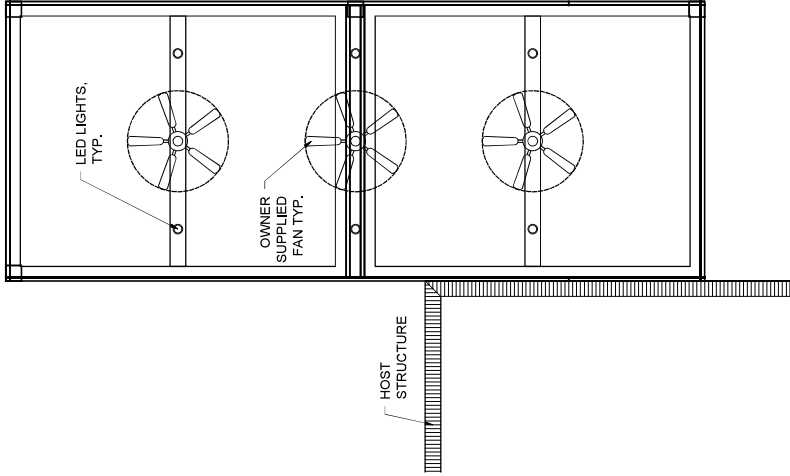


1 BEAM TO CMU WALL DETAIL
 S7 SCALE: 1-1/2" = 1'-0"



- SCOPE:**
- INSTALL 6 LIGHTS
 - INSTALL 3 FANS SUPPLIED BY OWNER
 - INSTALL 2-24 VOLT LINEAR ACTUATORS
 - TIE LIGHTS INTO CIRCUIT IN JUNCTION BOX LOCATED AT THE EXTERIOR
 - TIE FANS INTO CIRCUIT IN JUNCTION BOX LOCATED AT THE EXTERIOR
 - INSTALL NEW TAMPER PROOF WEATHER PROOF GFCI RECEPTACLES AT THE LOCATION OF STRUCTURE CONTROL BOX AND LIGHTING TRANSFORMERS
 - ALL LINE VOLTAGE WIRE TO BE #12 MRE #12 THWN OR 12/2 UF8 WIRE TO BE USED FOR ALL NEWWORK
 - ALL LOW VOLTAGE WIRING TO BE 18 GAUGE TC-ER TYPE CABLE

- NOTES**
- ALL WORK SHALL BE PERFORMED ACCORDING TO NEC 2023 AND FPS 2023 8TH EDITION
 - NO OVERHEAD ELECTRICAL SHALL BE LOCATED WITHIN 10 FT OF THE PERGOLA PER NEC 230.24
 - 406.9 RECEPTACLES IN DAMP OR WET LOCATIONS.
 - (A) DAMP LOCATIONS: A RECEPTACLE INSTALLED OUTDOORS IN A LOCATION PROTECTED FROM THE WEATHER OR IN OTHER DAMP LOCATIONS SHALL HAVE AN ENCLOSURE FOR THE RECEPTACLE THAT IS WEATHERPROOF WHEN THE RECEPTACLE IS COVERED (ATTACHMENT PLUG CAP NOT INSERTED AND RECEPTACLE COVERS CLOSED).
 - AN INSTALLATION SUITABLE FOR WET LOCATIONS SHALL ALSO BE CONSIDERED SUITABLE FOR DAMP LOCATIONS.
 - A RECEPTACLE SHALL BE CONSIDERED TO BE IN A LOCATION PROTECTED FROM THE WEATHER WHERE LOCATED UNDER ROOFED OPEN PORCHES, CANOPIES, MARQUEES, AND THE LIKE, AND WILL NOT BE SUBJECTED TO A BEATING RAIN OR WATER RUNOFF. ALL 15 AND 20-AMPERE, 125- AND 250-VOLT NON LOCKING RECEPTACLES SHALL BE A LISTED WEATHER-RESISTANT TYPE.
 - ALL PVC CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH NEC 352.10
 - ALL PVC CONDUIT SHALL BE STRAPPED AT 12 INCH OF OUTLET OR JUNCTION BOX OR OTHER CONDUIT TERMINATION. CONDUIT SHALL BE STRAPPED AT EVERY 32 INCHES.



- LOADING**
- SOMFY ACTUATORS
2 X 975 WATTS = 1950 WATTS
1950 WATTS/ 120 VOLTS= 16.25 AMPS
- ASPECT LED LIGHTS
3 X 6 WATTS= 360 WATTS
240 WATTS/ 120 VOLTS= 2 AMPS
- FANS TYPICAL
3 X 75 WATTS= 225 WATTS
225 WATTS/ 120 VOLTS= 1.875 AMPS
- TOTAL AMPS = 16.25+2+1.875 =20.125 AMPS

1 ELECTRICAL PLAN

SCALE: 3/16" = 1'-0"

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