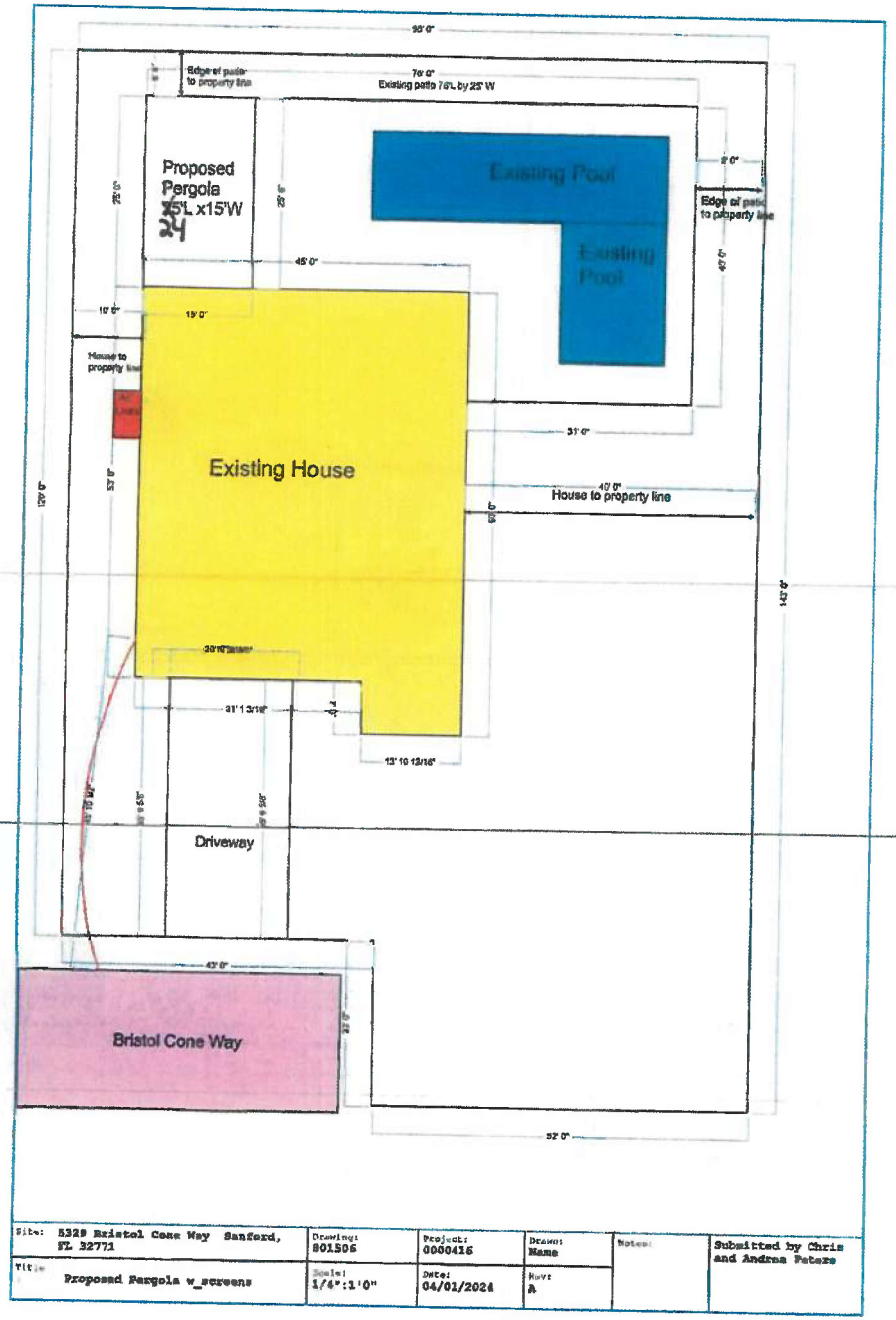
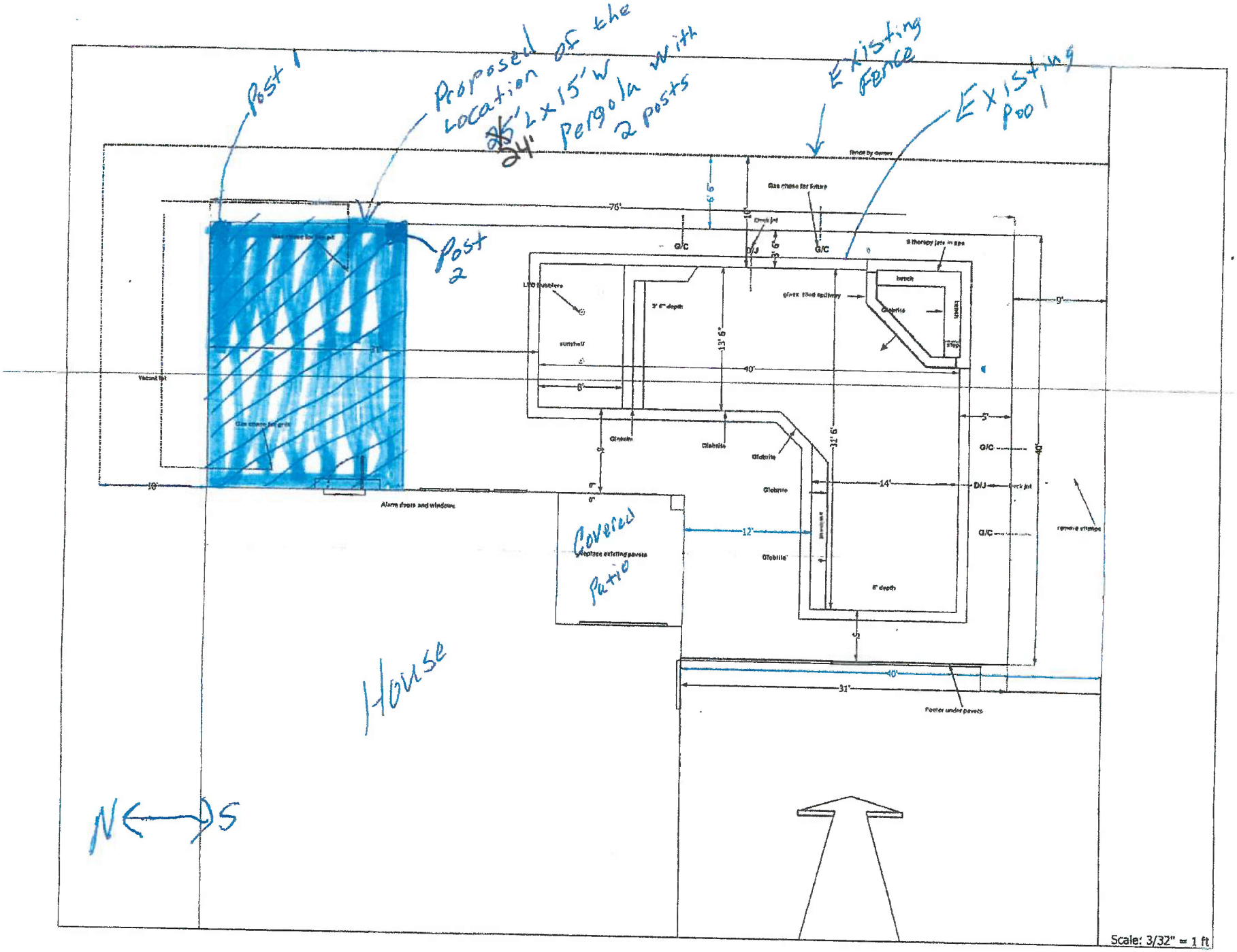
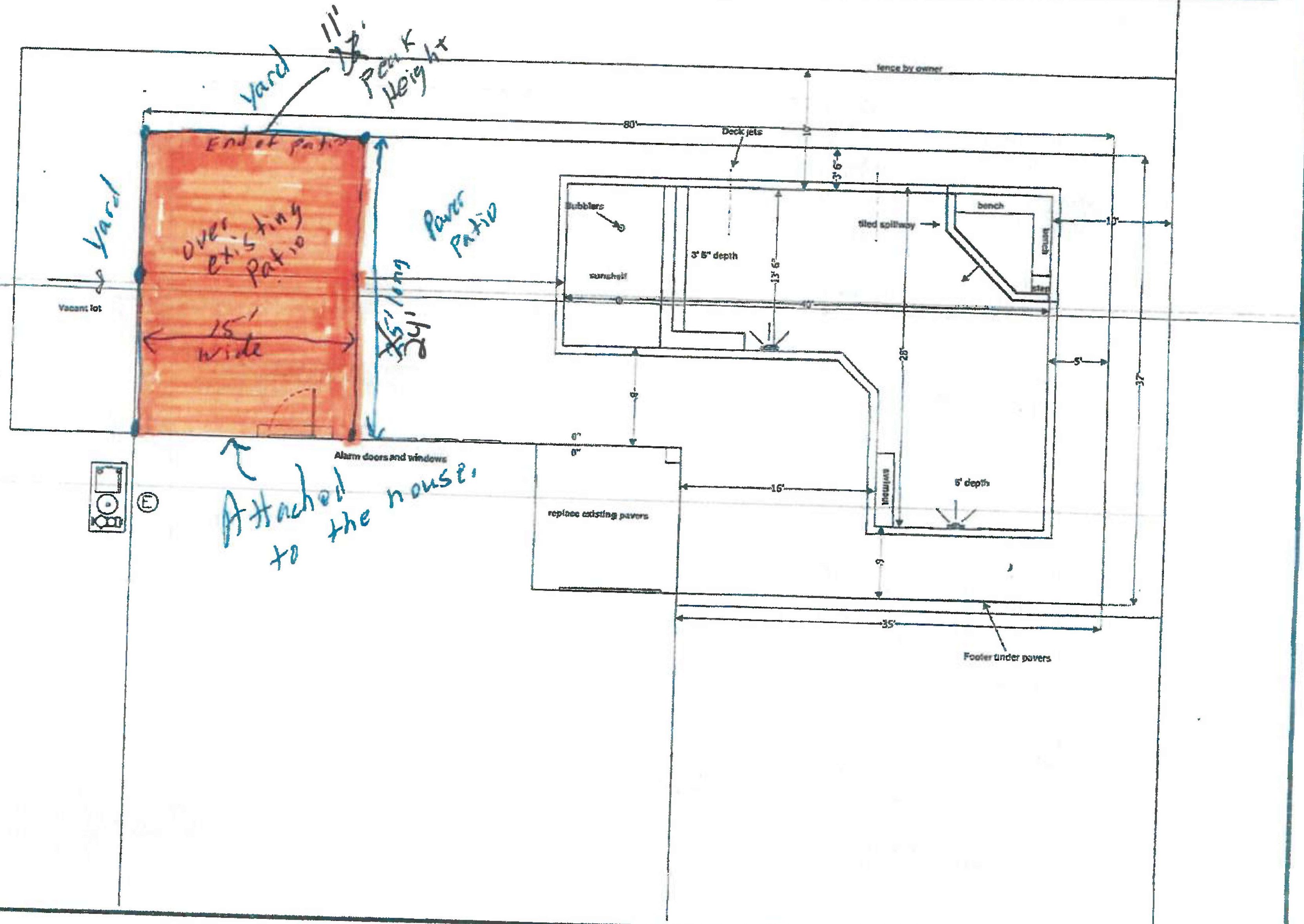
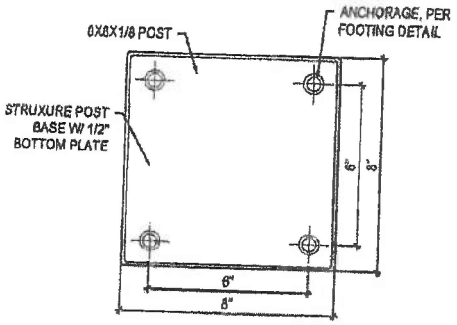

Proposed Pergola 35'L x15'W
24
Existing Pool
Existing Pool
Existing House
Edge of patio to property line
Existing patio 76'L by 25'W
House to property line
Driveway
Bristol Cone Way
Site: 5329 Bristol Cone Way Sanford, FL 32771
Drawing: 801506
Project: 0000416
Drawn: Name
Notes:
Submitted by Chris and Andrea Peters
Title: Proposed Pergola w_screens
Scale: 1/4":1'0"
Date: 04/01/2024
Sheet: A


Post 1
Proposed of the Location
~~15'~~ 24' 2 x 15' w Pergola with 2 posts
Existing Fence
Existing Pool
Post 2
Fence by owner
Gas chase for future
Check jet
G/C
5 therapy jets in spa
bench
glass tiled spillway
Globrite
LED Bubblers
sunshelf
3' 6" depth
13' 6"
40'
8'
9'
5'
14'
D/J
Vacant lot
Alarm doors and windows
Covered Patio
Replace existing pavers
12'
8" depth
House
40'
31'
Footer under pavers
remove shrubs
N
S
Scale: 3/32" = 1 ft

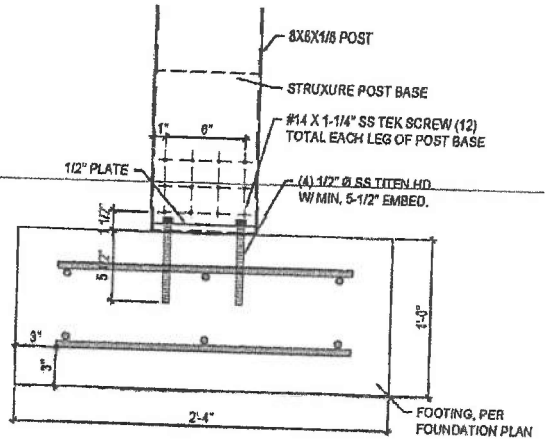
Main Block



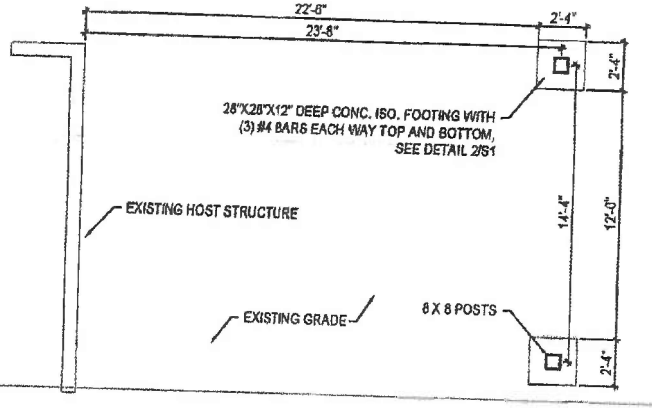
fence by owner
80'
Deck jets
10'
3' 6"
Bubblers
sunshelf
3' 6" depth
13' 6"
tiled spillway
bench
step
10'
40'
28'
5'
37'
8'
6"
Alarm doors and windows
16'
swimout
6' depth
replace existing pavers
9'
35'
Footer under pavers
Vacant lot
yard
End of patio
over existing patio
15' wide
24' long
11' Peak Height
Paver patio
Attached to the house.



3 / S1 BASEPLATE PLAN
SCALE: 3" = 1'-0"



2 / S1 ISO. FOOTING DETAIL
SCALE: 1-1/2" = 1'-0"



1 / S1 FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

JAKE B GODWIN LICENSE No. 91806 STATE OF FLORIDA PROFESSIONAL ENGINEER

GULF COAST ENGINEERING & DESIGN
1705 6th Street, Sarasota, Fl 34236, 941-216-6101, Cert. of Auth. no. 31790

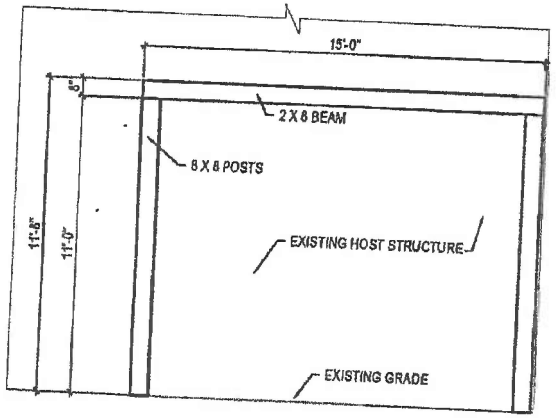
Date: 07/ 8 /2024
Project # 34005
Drawn: SCED

Peters Residence
Accessory Structure - Awning / Pergola
5239 Bristol Cove Way,
Sanford, FL 32771

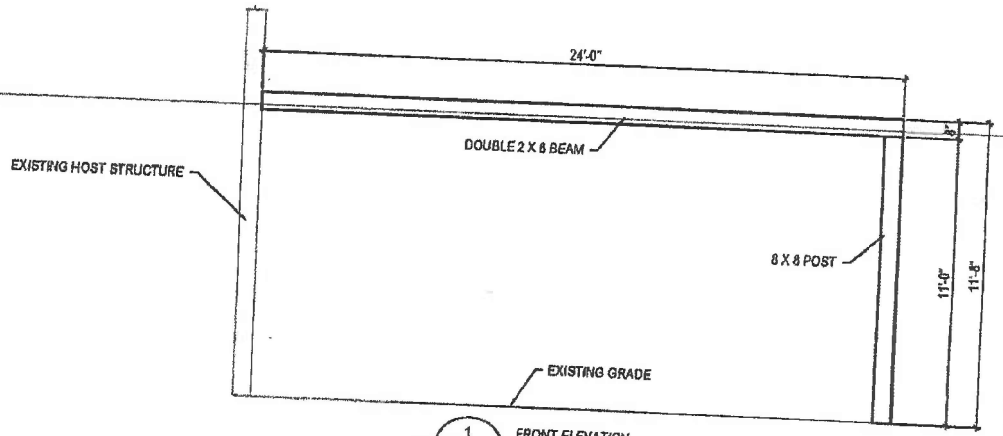
FOUNDATION

S1

NOTE: ALL POSTS LENGTHS TO BE VERIFIED IN FIELD



2 / S3 SIDE ELEVATION
SCALE: 1/4" = 1'-0"



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

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GULF COAST ENGINEERING & DESIGN
1705 6th Street
Sarasota, FL 34236
941-216-6101
Cert. of Auth. #33790

January 8, 2024
Project # 24005
Drawn: GDE

Peters Residence
Accessory Structure – Awning / Pergola
5329 British Cove Way
Sarasota, FL 34241

ELEVATIONS

S3

GENERAL NOTES:

SCOPE

THE SCOPE OF WORK SHALL INCLUDE THE INSTALLATION OF AN STRUXURE ALUMINUM ADJUSTABLE AWNING / PERGOLA.

DESIGN

THE STRUCTURAL SYSTEM FOR THE AWNING, AND ITS COMPONENTS DEPICTED HERE HAS BEEN DESIGNED BY GULF COAST ENGINEERING & DESIGN (GCED) ACCORDING TO THE 2023 8TH EDITION OF THE FLORIDA BUILDING CODE, ASCE 7-22, AND THE 2015 ALUMINUM DESIGN MANUAL.

AS THIS IS AN ENGINEERED SYSTEM FOR A SITE SPECIFIC DESIGN, NEITHER A FLORIDA PRODUCT APPROVAL OR MIAMI-DADE NOA ARE REQUIRED. ALL COMPONENTS AND THEIR CONNECTIONS HAVE BEEN ANALYZED TO ENSURE COMPLIANCE WITH APPLICABLE CODES.

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

ROOF LIVE: 12 PSF (PER CODE)

ROOF DEAD: 2 PSF + SELF-WEIGHT

WIND LOADS ON THE STRUCTURE HAVE BEEN CALCULATED IN ACCORDANCE WITH ASCE 7-22 FOR THE FOLLOWING: BASIC WIND SPEED: 140 MPH (3 SECOND GUST), RISK CATEGORY: II, EXPOSURE CATEGORY: C, PARTIALLY OPEN (ASCE 7-22 TABLE 26.13-1)

LOUVERS: 33 PERCENT SOLID.

LOAD COMBINATIONS:

D+L   D+0.6W   0.6D+0.6W

LOUVERED RIGID CANOPY DESIGN IS PER SECTION 3105.5.1 OF THE FBC. RIGID AWNINGS AND LOUVERED BLADES SHALL BE REPOSITIONED TO THE VERTICAL OPEN POSITION DURING PERIODS OF HIGH WIND VELOCITY AT A MINIMUM OF 45MPH

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 SHOWN ON THIS PAGE.

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

ALL STRUXTURE LOUVERED ROOFING PARTS SHALL BE INSTALLED IN ACCORDANCE WITH STRUXURE LOUVERED ROOFING SYSTEM.

THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL WATERPROOFING.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE MEANS AND METHODS OF CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO THE ADDITION OF NECESSARY SHORING, TIE DOWNS, TEMPORARY BRACING, ETC. CONTRACTOR IS TO NOTIFY GCED IF ANY ADDITIONAL ENGINEERING BRACING OR SHORING IS NECESSARY.

THE INFORMATION USED IS BASED ON CONTRACTOR SUPPLIED INFORMATION, DATA, AND MEASUREMENTS. GCED MAY NOT HAVE VISITED THIS JOB SITE. DIMENSIONS AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. GCED ASSUMES NO RESPONSIBILITY OR LIABILITY IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS THAT WERE PROVIDED TO THEM.

GENERAL CONDITIONS

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

THIS DESIGN DOES NOT CONSTITUTE THE ENGINEERING OF ANY OTHER STRUCTURES THAT ARE NOT SPECIFICALLY MENTIONED IN THIS PLAN SET. IF THERE ARE ANY DISCREPANCIES, CONTACT GCED PRIOR TO PROCEEDING WITH THE WORK.

ALL WORK PREPARED BY GCED, IS THE PROPERTY OF GCED AND MAY ONLY BE USED FOR ITS INTENDED USE AT THE SPECIFIED LOCATION. THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM ARE INSTRUMENTS OF SERVICE THROUGH WHICH THE WORK IS TO BE EXECUTED BY THE CONTRACTOR.

GCED WILL NOT BE RESPONSIBILITY FOR THE CONTRACTOR'S, CLIENT'S OR OTHER ENTITIES; INADEQUATE OR UNSATISFACTORY PERFORMANCE OF THE WORK.

AWNING WARNING LABEL:

> "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)."

STRUXURE COMPONENTS:

8 X 8 X 3/16 POST (6063-T6 MIN.)

2 X 8 X 1/8 BEAM

5-1/2 X 3 X 1/8 RESIDENTIAL GUTTER

7-3/4 X 2 X 1/8 POST BRACKET

1-3/4 X 2 X 1/8 CORNER CONNECTOR

1-3/4 X 2 X 1/8 U-CHANNEL CONNECTOR

7-3/4 X 12 X 1/8 POST BASE

8 X 2 X 1/8 LOUVER

MATERIALS:

ALUMINUM

ALUMINUM SHALL BE A MINIMUM OF 6063-T52 UNLESS NOTED OTHERWISE AND CONFORMING TO ASTM B429.

FINISH COLOR TO BE SELECTED BY OWNER FROM MANUFACTURES STANDARD COLORS FOR STANDARD EXTRUSIONS. GCED HAS NO DISTINCTION OVER COLOR.

CONCRETE FASTENERS TO BE 416 STAINLESS STEEL TITANS AS MANUFACTURED BY SIMPSON STRONG TIES OR APPROVED EQUAL.

ALL TEK SELF DRILLING SCREWS ARE TO BE 410 STAINLESS STEEL #14 x 1-1/4", TYPICAL UNLESS OTHERWISE NOTED.

FOUNDATIONS

BY VISUAL OBSERVATION, SOIL AT THE SITE IS SAND (OR SAND AND ROCK) WITH AN ASSUMED SOIL BEARING CAPACITY OF 2000 PSF. IF IT IS KNOWN OTHERWISE IT IS THE CONTRACTORS RESPONSIBILITY TO INFORM GCED.

ALL CONCRETE WORK TO BE 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. OF MINIMUM 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 TO HAVE A MINIMUM COVER OF 3 INCHES.

CONCRETE CAST AGAINST FORMWORK TO HAVE A MINIMUM COVER OF 1-1/2 INCHES.

JAKE B GODWIN LICENSE No. 91906 STATE OF FLORIDA PROFESSIONAL ENGINEER

GULF COAST ENGINEERING & DESIGN
1705 6th Street
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941-216-6101
Cert. of Auth. #33790

January 8, 2024
Project # 24005
Drawn: GCED

Peters Residence
Accessory Structure – Awning / Pergola
5329 Bristol Cone Way,
Sanford, FL 32771

NOTES

S0