Mr. Drew Worthmann 780 SW 135th Way, Newberry, FL 32669

Subject: Summary Report of a Wind Load Analysis

Existing Residence 190 SW Meridian Ct. Fort White, Columbia County, FL 32038 Project No. FE22-148 I LDEN NGINEERING LLLC.

Dear Mr. Worthmann,

Fielden Engineering, LLC. (FEL) is pleased to submit to you this Summary Report of a Wind Load Analysis for the above referenced project.

Background Information

The subject Existing Residence is a single-family residence located at 190 SW Meridian Ct., Fort White, Columbia County, FL 32038. Based on our review of the Columbia County Property Appraiser website, the residence was constructed on the property in 1930. For the purposes of this report, the residence faces northeast.

We understand that your Authority Having Jurisdiction (AHJ) requires wind pressure information for you to close a permit related to the installation of siding and windows at the subject residence. For this reason, you retained FEL to conduct a limited structural evaluation of the structure to provide Component & Cladding wind pressures.

Summary of Site Visit and Wind Load Analysis

Mr. Joseph S. Fielden, P.E. of FEL visited the subject residence on October 12, 2022 to observe and document the current structure. Access was provided by the homeowner, Mrs. Michelle Worthmann, who was present at the time of our site visit.

Based on our observations and field measurements obtained from the site visit of the current roof system during our site visit, FEL calculated the Component & Cladding wind pressures for the subject residence. The analysis was conducted using MecaWind v2405 by Meca Enterprises, Inc. (see attachment). These pressures are summarized in the attached Table 1 (attached).

Zone 5 indicates pressures on the edge zones. The edge zones are defined as the portions of the roof within 3 feet each corner and the roof edge. These wind pressures correspond to an ultimate wind speed velocity (V_{ult}) of 130 miles per hour in Exposure B as defined by American Society of Civil Engineers - *Minimum Design Loads and Associated Criteria for Buildings and Other Structures* (ASCE 7-16).

The wind pressures listed herein are for a fully enclosed structure. Therefore, the windows, doors, skylights, and sheathing shall resist the component and cladding wind pressures shown in Table 1. All construction operations shall be performed in accordance with local standards and practices and consistent with the Florida Building Code $(2020) - 7^{th}$ Edition.

Summary Report of a Limited Structural Evaluation Existing Residence 190 SW Meridian Ct. Fort White, Columbia County, FL 32038 Project No. FE22-148

Limitations

This report is intended only for the addressee, is not assignable, and not intended for the benefit of any third party. As a specific component of the consideration given by the client (addressee), client agrees that the author's damages in any matter arising out of or related to this report are limited to the amount the author is compensated for the evaluation, and client agrees to waiver all related consequential and special damages.

This evaluation and subsequent report are not intended to be technically exhaustive or imply that every component was observed and that every possible defect was discovered. There was not any destructive testing, i.e., openings of walls and/or ceilings to expose structural systems performed for this evaluation. Additionally, no geotechnical or subsurface exploration was provided within the scope of this limited structural evaluation. All components and conditions which by the nature of their location are concealed, camouflaged, or are difficult to access for observation, are excluded from this report.

This report shall not be construed to represent a review of the overall structural integrity of the structure, auxiliary structures, or the original structural design thereof. Furthermore, this report does not constitute a guarantee of the present or future adequacy or performance of the subject structure, its systems, or their component parts. This evaluation report shall not be construed as a compliance inspection of any governmental or non-governmental codes or regulations. A more detailed evaluation and assessment can be performed to address other portions of this structure, or other structures on the property, not included in this limited structural evaluation.

Closing

Fielden Engineering appreciates the opportunity to assist you with this project. If you have any questions, or require further clarification of the contents of this letter, please contact us.

Sincerely,

Fielden Engineeringy

Joseph S. Fielden, Principal Engineer

Florida Registration Number 77726

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ATTACHMENTS:

MecaWind v2405 OUTPUT

TABLE 1: COMPONENTS AND CLADDING WIND PRESSURES ON ROOF AND WALLS (PSF)

10-21-22

MecaWind v2405

Software Developer: Meca Enterprises Inc., www.meca.biz, Copyright @ 2020

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Calculations Prepared by:
                                                 Calculations Prepared For:
FIELDEN ENGINEERING, LLC.
                                                 Client: DREW WORTHMANN
542 NW 39TH RD. UNIT 405
                                                  Project #: FE22-148
GAINESVILLE, FL, 32607
                                                                        FORT WHITE, FL
                                                  Location:
Date: Oct 21, 2022
                                                  Description:
                                                  RIVER HOUSE
Designer: JSF
Basic Wind Parameters
Wind Load Standard
                                    = ASCE 7-16 Exposure Category
                                                                                         = B
Wind Design Speed
                                    = 130.0 mph Risk Category
= Building Building Type
                                                                                        = II
Structure Type
                                                                                         = Enclosed
General Wind Settings
                                                                                   = False
Incl LF = Include ASD Load Factor of 0.6 in Pressures
DynType = Dynamic Type of Structure
                                                                                   = Rigid
                                                                                   = 0.000 ft
          = Altitude (Ground Elevation) above Sea Level
Bdist
                                                                                   = 0.000 ft
          = Base Elevation of Structure
SDB = Simple Diaphragm Building
                                                                                    = False
                                                                                   = Ch 27 Pt 1
MWFRSType = MWFRS Method Selected
Topographic Factor per Fig 26.8-1
Topo = Topographic Feature
                                                                                   = None
          = Topographic Factor
                                                                                    = 1.000
Building Inputs
RoofType: Building Roof Type = Gabled W : Width Perp to Ridge
L : Length Along Ridge = 48.000 ft EHt : Eave Height
RE : Roof Entry Method = Slope Slope : Slope of Roof
Theta : Roof Slope = 18.43 Deg Par : Is there a Parapet
                                                                                        = 26.000 \text{ ft}
                                                                                        = 11.833 ft
                                                                                        = 4.0 : 12
                                                                                        = False
Exposure Constants per Table 26.11-1:
Alpha: Table 26.11-1 Const = 7.000 Zg: Table 26.11-1 Const
At: Table 26.11-1 Const = 0.143 Bt: Table 26.11-1 Const
Am: Table 26.11-1 Const = 0.250 Bm: Table 26.11-1 Const
C: Table 26.11-1 Const = 0.300 Eps: Table 26.11-1 Const
                                                                                        = 1200.000 ft
                                                                                        = 0.840
                                                                                        = 0.450
                                                                                        = 0.333
Overhang Inputs:
                                                                                   = True
          = Overhangs on all sides are the same
          = Type of Roof Wall Intersections
                                                                                    = Overhang
                                                                                    = 2.000 ft
         = Overhang of Roof Beyond Wall
Main Wind Force Resisting System (MWFRS) Calculations per Ch 27 Part 1:
         = Mean Roof Height above grade
                                                                                    = 14.000 ft
          = Z < 15 \text{ ft } [4.572 \text{ m}] --> (2.01 * (15/zg)^(2/Alpha) {Table } 26.10-1} = 0.575
Kh
          = Topographic Factor is 1 since no Topographic feature specified = 1.000
Kzt
         = Wind Directionality Factor per Table 26.6-1
                                                                                   = 0.85
Kd
                                                                                   = 0.000 ft
          = Elevation above Sea Level
          = Ground Elevation Factor: Ke = e^{-(0.0000362*Zg)} {Table 26.9-1} = 1.000
Ke
GCPi
         = Ref Table 26.13-1 for Enclosed Building
                                                                                    = +/-0.18
                                                                                    = 1644.38 sq ft
         = Roof Area
                                                                                    = 1.00
LF
          = Load Factor based upon STRENGTH Design
          = (0.00256 * Kh * Kzt * Kd * Ke * V^2) * LF
                                                                                   = 21.13 psf
qh
         = For Negative Internal Pressure of Enclosed Building use qh*LF = 21.13 psf
gin
          = For Positive Internal Pressure of Enclosed Building use gh*LF = 21.13 psf
Gust Factor Calculation:
Gust Factor Category I Rigid Structures - Simplified Method
      = For Rigid Structures (Nat. Freq.>1 Hz) use 0.85
                                                                                    = 0.85
Gust Factor Category II Rigid Structures - Complete Analysis
Zm = Max(0.6 * Ht, Zmin)
                                                                                    = 30.000 ft
         = Cc * (33 / Zm) ^ 0.167
= L * (Zm / 33) ^ Eps
                                                                                    = 0.305
Izm
                                                                                   = 309.993
I.zm
В
         = Structure Width Normal to Wind
                                                                                   = 48.000 ft
         = (1 / (1 + 0.63 * ((B + Ht) / Lzm)^0.63))^0.5
                                                                                   = 0.902
                                                                                   = 0.867
          = 0.925*((1+0.7*Izm*3.4*Q)/(1+0.7*3.4*Izm))
Gust Factor Used in Analysis
```

```
= Lessor Of G1 Or G2
                                                                         = 0.850
MWFRS Wind Normal to Ridge (Ref Fig 27.3-1)
h = Mean Roof Height Of Building
                                                                         = 14.000 ft
         = Ridge Height Of Roof
                                                                         = 16.166 ft
         = Horizontal Dimension Of Building Normal To Wind Direction = 48.000 ft
        = Horizontal Dimension Of building Parallel To Wind Direction
                                                                         = 26.000 ft
h/L = Ratio Of L/B used For Cp determination

Slope = Slope of Roof

Coefficient Rottom Surface (Wi
        = Ratio Of L/B used For Cp determination
                                                                         = 0.542
                                                                         = 0.538
                                                                         = 18.43 \text{ Deg}
OH Bot -Y = Overhang Coefficient Bottom Surface (Windward Only)
                                                                         = 0.8, 0.8
OH Top_+X+Y= Overhang Coefficient Overhang +X+Y (Leeward)
                                                                         = -0.57, -0.57
OH Top +X-Y= Overhang Coefficient Overhang +X-Y (Windward)
                                                                         = -0.07, -0.52
OH Top +Y = Overhang Coefficient Top +Y (Leeward)
OH_Top_-X+Y= Overhang Coefficient Overhang -X+Y (Leeward)
                                                                         = -0.57, -0.57
                                                                         = -0.57, -0.57
OH_Top_-X-Y= Overhang Coefficient Overhang -X-Y (Windward)
                                                                         = -0.07, -0.52
OH Top_-Y = Overhang Coefficient Top Windward Edge
                                                                         = -0.07, -0.52
= -0.57, -0.57
Roof_LW = Roof Coefficient (Leeward)
Roof WW = Roof Coefficient (Windward)
                                                                         = -0.07, -0.52
        = Windward Wall Coefficient (All L/B Values)
Cp_WW
                                                                         = 0.80
         = Leward Wall Coefficient using L/B
         = Side Wall Coefficient (All L/B values)
                                                                         = -0.70
        = Parapet Combined Net Pressure Coefficient (Windward Parapet)
GCpn WW
                                                                         = 1.50
GCpn LW = Parapet Combined Net Pressure Coefficient (Leeward Parapet)
                                                                         = -1.00
  Wall Wind Pressures based On Positive Internal Pressure (+GCPi) - Normal to Ridge
                  All wind pressures include a load factor of 1.0
                  Kzt qz GCPi Windward Leeward Side Total Minimum
    Elev
            Kz
                         Press Press Press psf psf psf psf
                                                                 Press Pressure*
                                                        psf
                                                                 psf
     ---- ---- ----
                                                        -----
                                                                 ----
     11.83 0.575 1.000 21.13 0.18 10.57 -12.79 -16.38 23.35 16.00
  Wall Wind Pressures based on Negative Internal Pressure (-GCPi) - Normal to Ridge
                 All wind pressures include a load factor of 1.0
    Elev Kz Kzt gz GCPi Windward Leeward Side Total Minimum
                 Press Press Press Press Pressure*
                                                        psf psf psf
     ---- ---- ---- ---- ----
                                               -----
    11.83 0.575 1.000 21.13 -0.18 18.18 -5.18 -8.77 23.35 16.00
    Notes Wall Pressures:
    Kz = Velocity Press Exp Coeff Kzt = Topographical Factor qz = 0.00256*Kz*Kzt*Kd*V^2 GCPi = Internal Press Coefficient Side = qh * G * Cp_SW - qip * +GCPi Windward = qz * G * Cp_WW - qip * +GCPi Leeward = qh * G * Cp_LW - qip * +GCPi Total = Windward Press - Leeward Press
    * Minimum Pressure: Para 27.1.5 no less than 16.00 psf (Incl LF) applied to Walls
                                        - Pressures Acting AWAY from Surface
    + Pressures Acting TOWARD Surface
Roof Wind Pressures for Positive & Negative Internal Pressure (+/- GCPi) - Normal to
                                      Ridge
                 All wind pressures include a load factor of 1.0
     Roof Var Start End Cp_min Cp_max GCPi Pressure Pressure Pressure
               Dist Dist Pn_min* Pp_min* Pn_max Pp_max
               ft ft
                                              psf psf
                                                                 psf
                                                                           psf
    OH_Bot_-Y N/A N/A 0.800 0.800 0.000 14.37 14.37 14.37 14.37 OH_Top_+X+Y N/A N/A -0.570 -0.570 0.000 -10.24 -10.24 -10.24 -10.24
    OH_Top_+X-Y N/A N/A -0.070 -0.520 0.000 -1.26 -1.26 -9.34 -9.34 OH_Top_-X+Y N/A N/A -0.570 -0.570 0.000 -10.24 -10.24 -10.24 -10.24 OH_Top_-X+Y N/A N/A -0.570 -0.570 0.000 -10.24 -10.24 -10.24 -10.24 OH_Top_-X-Y N/A N/A -0.070 -0.520 0.000 -1.26 -1.26 -9.34 -9.34
    Notes Roof Pressures:
```

```
OH = Overhang X = Dir along Ridge Y = Dir Perpendcular to Ridge Z = Vertical
      * The smaller uplift pressures due to Cp Min can become critical when wind is combined
       with roof live load or snow load; load combinations are given in ASCE 7
     + Pressures Acting TOWARD Surface
                                                      - Pressures Acting AWAY from Surface
MWFRS Wind Parallel to Ridge (Ref Fig 27.3-1)
       = Mean Roof Height Of Building
                                                                                        = 14.000 ft
RHT
           = Ridge Height Of Roof
                                                                                       = 16.166 ft
          = Horizontal Dimension Of Building Normal To Wind Direction
           = Horizontal Dimension Of building Parallel To Wind Direction
                                                                                       = 48.000 ft
L
          = Ratio Of L/B used For Cp determination
                                                                                       = 1.846
          = Ratio Of h/L used For Cp determination
                                                                                       = 0.292
Slope
           = Slope of Roof
                                                                                       = 18.43 \text{ Deg}
           = Overhang Bottom (Windward Face Only)
                                                                                       = 0.8, 0.8
OH Top
          = Overhang Top Coeff (0 to h/2) (0.000 ft to 2.000 ft)
                                                                                       = -0.18, -0.9
                                                                                       = -0.18, -0.9
OH Top
          = Overhang Top Coeff (0 to h/2) (2.000 ft to 7.000 ft)
OH Top
          = Overhang Top Coeff (h/2 to h) (7.000 ft to 14.000 ft)
= Overhang Top Coeff (h to 2h) (14.000 ft to 27.999 ft)
                                                                                       = -0.18, -0.9
OH Top
                                                                                       = -0.18, -0.5
          = Overhang Top Coeff (>2h) (>27.999 ft)
OH Top
                                                                                       = -0.18, -0.3
                                                                                       = -0.18, -0.3
OH Top
          = Overhang Top Coeff (>2h) (>50.000 ft)
Roof
Roof
           = Roof Coeff (0 to h/2) (2.000 ft to 7.000 ft)
                                                                                       = -0.18, -0.9
          = Roof Coeff (h/2 \text{ to } h) (7.000 ft to 14.000 ft)
                                                                                       = -0.18, -0.9
Roof
           = Roof Coeff (h to 2h) (14.000 ft to 27.999 ft)
                                                                                       = -0.18, -0.5
                                                                                       = -0.18, -0.3
          = Roof Coeff (>2h) (>27.999 ft)
Roof
Cp WW
          = Windward Wall Coefficient (All L/B Values)
                                                                                       = 0.80
           = Leward Wall Coefficient using L/B
                                                                                       = -0.33
           = Side Wall Coefficient (All L/B values)
                                                                                       = -0.70
GCpn WW
          = Parapet Combined Net Pressure Coefficient (Windward Parapet)
                                                                                       = 1.50
GCpn LW
         = Parapet Combined Net Pressure Coefficient (Leeward Parapet)
                                                                                       = -1.00
 Wall Wind Pressures based On Positive Internal Pressure (+GCPi) - Parallel to Ridge
                      All wind pressures include a load factor of 1.0
     Elev
                                     GCPi Windward Leeward
                                                                    Side
                                                                             Total
                                                                                        Minimum
                            qz
                                      Press Press
                                                                   Press Press
                                                                                       Pressure*
                              psf
                                             psf
                                                         psf
                                                                   psf
                                                                             psf
                             _____
                                                        -----
                                                                   -----
                                                                              -----

    16.17
    0.587
    1.000
    21.59
    0.18
    10.88
    -9.75
    -16.38

    14.00
    0.575
    1.000
    21.13
    0.18
    10.57
    -9.75
    -16.38

    11.83
    0.575
    1.000
    21.13
    0.18
    10.57
    -9.75
    -16.38

    16.18
    10.57
    -9.75
    -16.38

                                                                                       16.00
                                                                             20.62
                                                                              20.31
                                                                                          16.00
                                                                            20.31
                                                                                           16.00
 Wall Wind Pressures based on Negative Internal Pressure (-GCPi) - Parallel to Ridge
                      All wind pressures include a load factor of 1.0
                                     GCPi Windward Leeward Side Total Minimum
     Elev
              Kz
                      Kzt
                              qz
                                     Press Press Press Pressure*
     psr psf psf psf psf
                                                                                       psf

    16.17
    0.587
    1.000
    21.59
    -0.18
    18.49
    -2.14
    -8.77
    20.62
    16.00

    14.00
    0.575
    1.000
    21.13
    -0.18
    18.18
    -2.14
    -8.77
    20.31
    16.00

    11.83
    0.575
    1.000
    21.13
    -0.18
    18.18
    -2.14
    -8.77
    20.31
    16.00

    16.00
    1.000
    1.000
    1.000
    1.000
    18.18
    -2.14
    -8.77
    20.31
    16.00

     Notes Wall Pressures:
     Kz = Velocity Press Exp Coeff Kzt = Topographical Factor
qz = 0.00256*Kz*Kzt*Kd*V^2 GCPi = Internal Press Coefficient
Side = qh * G * Cp_SW - qip * +GCPi Windward = qz * G * Cp_WW - qip * +GCPi
Leeward = qh * G * Cp_LW - qip * +GCPi Total = Windward Press - Leeward Press
     * Minimum Pressure: Para 27.1.5 no less than 16.00 psf (Incl LF) applied to Walls
     + Pressures Acting TOWARD Surface
                                                       - Pressures Acting AWAY from Surface
 Roof Wind Pressures for Positive & Negative Internal Pressure (+/- GCPi) - Parallel
                                             to Ridge
                      All wind pressures include a load factor of 1.0
                     Start End Cp_min Cp_max GCPi Pressure Pressure Pressure Pressure
       Roof Var
                      Dist Dist
                                                             Pn_min* Pp_min* Pn_max Pp_max
                                                                         psf psf psf
                       ft
                              ft
                                                               psf
```

```
OH_Top (-Y) 14.000 27.999 -0.180 -0.500 0.000 -3.23 -3.23 -8.98 -8.98
                      14.000 27.999 -0.180 -0.500 0.000 -3.23 -3.23 -8.98
27.999 50.000 -0.180 -0.300 0.000 -3.23 -3.23 -5.39
      OH Top (+Y)
                                                                                                -8.98
                                                                                              -5.39
      OH Top (-Y)
                      27.999 50.000 -0.180 -0.300 0.000 -3.23 -3.23 -5.39 -5.39
      OH Top (+Y)
      OH_Top (+X+Y) 50.000 52.000 -0.180 -0.300 0.000 -3.23 -3.23 -5.39 -5.39
OH_Top (+X-Y) 50.000 52.000 -0.180 -0.300 0.000 -3.23 -3.23 -5.39 -5.39
Roof (+Y) 2.000 7.000 -0.180 -0.900 0.180 0.57 -7.04 -12.36 -19.97
                      2.000 7.000 -0.180 -0.900 0.180 0.57 -7.04 -12.36 -19.97
      Roof (-Y)
                      Roof (+Y)
      Roof (-Y)
                  Roof (+Y)
                  -5.18 -12.79
      Roof (-Y)
      Roof (+Y)
                                                                                                -9.19
                                                                                                -9.19
      Roof (-Y)
      Notes Roof Pressures:
      OH = Overhang X = Dir along Ridge Y = Dir Perpendcular to Ridge Z = Vertical
      * The smaller uplift pressures due to Cp Min can become critical when wind is combined
        with roof live load or snow load; \log \overline{d} combinations are given in ASCE 7
      + Pressures Acting TOWARD Surface
                                                       - Pressures Acting AWAY from Surface
Components and Cladding (C&C) Zone Summary per Ch 30 Pt 1:
          = Ratio of mean roof height to building width
h/L
           = Ratio of mean roof height to building length
                                                                                        = 0.292
h
           = Mean Roof Height above grade
           = Z < 15 ft [4.572 m]--> (2.01 * (15/zg)^(2/Alpha) {Table 26.10-1}= 0.575
Kh
           = Topographic Factor is 1 since no Topographic feature specified = 1.000
           = Wind Directionality Factor per Table 26.6-1
                                                                                        = 0.85
Kd
GCPi
           = Ref Table 26.13-1 for Enclosed Building
                                                                                        = +/-0.18
           = Load Factor based upon STRENGTH Design
                                                                                        = 1.00
LF
           = (0.00256 * Kh * Kzt * Kd * Ke * V^2) * LF
                                                                                        = 21.13 psf
LHD
           = Least Horizontal Dimension: Min(B, L)
           = Min(0.1 * LHD, 0.4 * h)
                                                                                        = 2.600 \text{ ft}
a1
           = Max(a1, 0.04 * LHD, 3 ft [0.9 m])
                                                                                         = 3.000 ft
           = Ratio of mean roof height to least hor dim: h / B
h/B
    Wind Pressure Summary for C&C Zones based Upon Areas Ch 30 Pt 1 (Table 1 of 2)
                      All wind pressures include a load factor of 1.0
                                                 A =
                                                                     A =
      | Figure |
                             A <=
                                                                                          A =
Zone
              | 2.00 sq ft | 10.00 sq ft | 20.00 sq ft | 50.00 sq ft
psf psf psf psf
      | 30.3-2B | 18.60 -46.07 | 16.00 -46.07 | 16.00 -46.07 | 16.00 -28.03
1 | 30.3-2B | 18.60 -46.07 | 16.00 -46.07 | 16.00 -46.07 | 16.00 -28.03

1_OH | 30.3-2B | 16.00 -52.84 | 16.00 -52.84 | 16.00 -52.84 | 16.00 -40.80

2e | 30.3-2B | 18.60 -46.07 | 16.00 -46.07 | 16.00 -46.07 | 16.00 -28.03

2e_OH | 30.3-2B | 18.60 -67.21 | 16.00 -52.84 | 16.00 -52.84 | 16.00 -40.80

2n | 30.3-2B | 18.60 -67.21 | 16.00 -67.21 | 16.00 -58.11 | 16.00 -40.80

2n | 30.3-2B | 16.00 -73.97 | 16.00 -67.21 | 16.00 -67.15 | 16.00 -58.12

2r | 30.3-2B | 18.60 -67.21 | 16.00 -67.21 | 16.00 -58.11 | 16.00 -58.12

2r | 30.3-2B | 18.60 -67.21 | 16.00 -67.21 | 16.00 -58.11 | 16.00 -46.07

2r_OH | 30.3-2B | 16.00 -73.97 | 16.00 -73.97 | 16.00 -67.15 | 16.00 -58.12

3e | 30.3-2B | 18.60 -67.21 | 16.00 -67.21 | 16.00 -67.15 | 16.00 -58.12

3e | 30.3-2B | 18.60 -67.21 | 16.00 -67.21 | 16.00 -74.82 | 16.00 -59.13

3r_OH | 30.3-2B | 18.60 -79.89 | 16.00 -79.89 | 16.00 -68.44 | 16.00 -59.33

3r_OH | 30.3-2B | 18.60 -99.33 | 16.00 -99.33
3r oh | 30.3-2B | 16.00 -99.33 | 16.00 -99.33 | 16.00 -84.06 | 16.00 -63.88
4 | 30.3-1 | 24.94 -27.05 | 24.94 -27.05 | 23.82 -25.93 | 22.33 -24.44
5 | 30.3-1 | 24.94 -33.39 | 24.94 -33.39 | 23.82 -31.15 | 22.33 -28.18
```

All wind pressures include a load factor of 1.0

Zone	1	Figure	1	A = 100.00 sq ft	1	A = 200.00 sq ft	1	A = 250.00 sq ft		A > 500.00 sq ft
	18		9	psf		psf	10	psf	92	psf
	***		-		=		-		-	
1	1	30.3-2B	1	16.00 -16.00	1	16.00 -16.00	1	16.00 -16.00	1	16.00 -16.00
1 OH	֔.	30.3-2B	1	16.00 -31.70	1	16.00 -31.70	1	16.00 -31.70	1	16.00 -31.70
2e	î	30.3-2B	i	16.00 -16.00	1	16.00 -16.00	1	16.00 -16.00	1	16.00 -16.00
2e OH	î	30.3-2B	1	16.00 -31.70	1	16.00 -31.70	1	16.00 -31.70	1	16.00 -31.70
2n	î	30.3-2B	i	16.00 -36.97	1	16.00 -27.87	1	16.00 -24.94	1	16.00 -24.94
2n OH	î	30.3-2B	1	16.00 -51.29	1	16.00 -44.47	1	16.00 -42.27	1	16.00 -42.27
2r	i	30.3-2B	i	16.00 -36.97	Ĩ	16.00 -27.87	1	16.00 -24.94	1	16.00 -24.94
2r OH	î	30.3-2B	ì	16.00 -51.29	1	16.00 -44.47	1	16.00 -42.27	1	16.00 -42.27
3e	î	30.3-2B	Ĩ.	16.00 -36.97	1	16.00 -27.87	1	16.00 -24.94	1	16.00 -24.94
3e OH	i	30.3-2B	i	16.00 -47.34	1	16.00 -35.51	1	16.00 -31.70	1	16.00 -31.70
3r	ï	30.3-2B	i	16.00 -41.85	1	16.00 -41.85	1	16.00 -41.85	1	16.00 -41.85
3r OH	í	30.3-2B	i	16.00 -48.61	1	16.00 -48.61	ii.	16.00 -48.61	1	16.00 -48.61
4	i	30.3-1	i	21.21 -23.32	1	20.08 -22.20	ii.	19.72 -21.84	1	18.60 -20.71
5	i	30.3-1	î	21.21 -25.93	Ì	20.08 -23.68	1	19.72 -22.96	1	18.60 -20.71

- * A is effective wind area for C&C: Span Length * Effective Width
- * Effective width need not be less than 1/3 of the span length
- $\mbox{\scriptsize \star}$ Maximum and minimum values of pressure shown.
- * + Pressures acting toward surface, Pressures acting away from surface
- \star _OH represents an Overhang in the zone specified
- * Overhang pressures calculated per Para 30.9
- * Per Para 30.2.2 the Minimum Pressure for C&C is 16.00 psf [0.766 kPa] {Includes LF}
- * Interpolation can be used for values of A that are between those values shown.

Summary Report of a Limited Structural Evaluation Existing Residence 190 SW Meridian Ct. Fort White, Columbia County, FL 32038 Project No. FE22-148

TABLE 1

COMPONENTS AND CLADDING WIND PRESSURES ON ROOF AND WALLS (PSF)										
	ALL ROOF		2N, 2R &							
ZONE	ZONES	1 & 2E	3E	3R	4 & 5	4	5			
TRIB AREA (SQFT)	+		-	-	+	-	-			
10	16.00	-46.07	-67.21	-79.89	24.94	-27.05	-33.39			
20	16.00	-46.07	-58.11	-68.44	23.82	-25.93	-31.15			
50	16.00	-28.03	-46.07	-53.30	22.33	-24.44	-28.18			
100	16.00	-16.00	-36.97	-41.85	21.21	-23.32	-25.93			
200	16.00	-16.00	-27.87	-41.85	20.08	-22.20	-23.68			
500	16.00	-16.00	-24.94	-41.85	18.60	-20.71	-20.71			

