

## GENERAL NOTES:

### 1. MATERIALS

| ASTM DESCRIPTION       | AS29 | AS72 | A1011 |
|------------------------|------|------|-------|
| STRUCTURAL STEEL PLATE | AS29 | AS72 | A1011 |
| HOT ROLLED MILL SHAPES | AS29 | AS72 | A500  |
| HSS ROLLING            | AS29 | AS72 | A500  |
| HSS RECTANGULAR        | AS29 | AS72 | A500  |
| COLD FORMED SHAPES     | AS29 | AS72 | A1011 |
| ROOF AND WALL SHEETING | AS29 | AS72 | A500  |
| BOLTS                  | AS29 | AS72 | A490  |
| CABLE                  | AS29 | AS72 | A490  |
| RODS                   | AS29 | AS72 | A490  |

### 2. STRUCTURAL PRIMER NOTE:

SHOP COAT PRIMER IS INTENDED TO PROTECT THE STEEL FRAMING FOR A SHORT PERIOD OF TIME. STORAGE IN EXTREME COLD TEMPERATURES OR WINTER SNOW CONDITIONS, INCLUDING TRANSPORTATION ON SALTED OR CHEMICALLY TREATED ROADS WILL ADVERSELY AFFECT THE DURABILITY AND LONGEVITY OF THE PRIMER. THE COAT OF SHOP PRIMER DOES NOT PROVIDE THE UNIFORMITY OF APPEARANCE, OR THE DURABILITY AND CORROSION RESISTANCE OF A FIELD APPLIED FINISH COAT OF PAINT OVER A SHOP PRIMER. MINOR ABRASIONS TO THE SHOP COAT PRIMER CAUSED BY HANDLING, LOADING, SHIPPING, UNLOADING AND ERECTION ARE UNAVOIDABLE AND ARE NOT THE RESPONSIBILITY OF THE METAL BUILDING MANUFACTURER. METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR THE DETERIORATION OF THE PRIMER OR CORROSION THAT MAY RESULT FROM ATMOSPHERIC AND ENVIRONMENTAL CONDITIONS NOR THE COMPATIBILITY OF THE PRIMER TO ANY FIELD APPLIED COATING.

### 3. BUILDING ERECTION NOTES:

THE GENERAL CONTRACTOR AND/OR ERECTOR IS RESPONSIBLE TO SAFELY AND PROPERLY ERECT THE METAL BUILDING SYSTEM IN CONFORMANCE WITH THESE DRAWINGS, OSHA REQUIREMENTS, AND EITHER MSHA OR CSA 516 STANDARDS PERTAINING TO PROPER ERECTION. TEMPORARY SUPPORTS SUCH AS DUTY BRACES, FALSEWORK, CRIBBING OR OTHER ELEMENTS FOR ERECTION ARE TO BE DETERMINED, FURNISHED AND INSTALLED BY THE ERECTOR. THESE SUPPORTS MUST SECURE THE STEEL FRAMING, OR PARTIALLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED IN ADDITION TO LOADS RESULTING FROM THE ERECTION OPERATION. SECONDARY WALL AND ROOF FRAMING, PURLINS, GIRTS AND/OR JOISTS ARE NOT DESIGNED TO FUNCTION AS A WORKING PLATFORM OR TO PROVIDE AS AN ANCHORAGE POINT FOR A FALL ARREST /SAFETY TIE OFF.

### 4. SPECIAL INSPECTION:

SPECIAL INSPECTIONS AND TESTING THAT MAY BE REQUIRED BY GOVERNMENTAL OR OTHER AUTHORITY DURING CONSTRUCTION AND/OR STEEL FABRICATION (COLLECTIVELY, "INSPECTIONS") ARE NOT THE RESPONSIBILITY OF THE PEMB MANUFACTURER, AND TO THE EXTENT REQUIRED IT SHALL BE THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE. IN THE EVENT INSPECTIONS ARE REQUIRED, THE OWNER AND/OR THE OWNER'S REPRESENTATIVE SHALL EMPLOY A THIRD PARTY QUALITY ASSURANCE TESTING AGENCY BY THE RELEVANT AUTHORITY. IF SUCH REQUIREMENTS ARE NOT SPECIFICALLY INCLUDED IN THE PEMB MANUFACTURER'S SALES DOCUMENTS, NO INSPECTIONS BY THE PEMB MANUFACTURER OR AT THE PEMB MANUFACTURER'S FACILITY SHALL BE MADE. THE PEMB MANUFACTURER'S FACILITIES ARE ACCREDITED BY IAS A472.

### 5. A325 & A490 BOLT TIGHTENING REQUIREMENTS:

IT IS THE RESPONSIBILITY OF THE ERECTOR TO ENSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPLICABLE REGULATIONS, FOR PROJECTS IN THE UNITED STATES, SEE THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS OR FOR PROJECTS IN CANADA, SEE THE CAN/CSA 516 LIMIT STATES DESIGN OF STEEL STRUCTURES FOR MORE INFORMATION.

THE FOLLOWING CRITERIA MAY BE USED TO DETERMINE THE BOLT TIGHTNESS (I.E. "SNUG-TIGHT" OR "FULLY-PRE-TENSIONED"), UNLESS REQUIRED OTHERWISE BY LOCAL JURISDICTION OR CONTRACT REQUIREMENTS:

- ALL A490 BOLTS SHALL BE "FULLY-PRE-TENSIONED".
- ALL A325 BOLTS IN PRIMARY FRAMING (TRUSS FRAMES AND BRACING) MAY BE "SNUG-TIGHT", EXCEPT AS FOLLOWS: "FULLY-PRE-TENSIONED" A325 BOLTS IF:
  - BUILDING SUPPORTS A CRANE SYSTEM WITH A CAPACITY GREATER THAN 5 TONS.
  - BUILDING SUPPORTS MACHINERY THAT CREATES VIBRATION, IMPACT, OR STRESS-REVERSALS ON THE CONNECTIONS. THE ENGINEER-OF-RECORD FOR THE PROJECT SHOULD BE CONSULTED TO EVALUATE FOR THIS CONDITION.
  - THE PROJECT SITE IS LOCATED IN A HIGH SEISMIC AREA. FOR ISC-BASED CODES, "HIGH SEISMIC AREA" IS DEFINED AS "SEISMIC DESIGN CATEGORY" OF "D", "E", OR "F". SEE THE "BUILDING LOADS" SECTION ON THIS PAGE FOR THE DEFINED SEISMIC DESIGN CATEGORY FOR THIS PROJECT.
  - ANY CONNECTION DESIGNATED IN THESE DRAWINGS AS "A325-SG", "SLIP-CRITICAL" ("SC") CONNECTIONS MUST BE FREE OF PAINT, OIL, OR OTHER MATERIALS THAT REDUCE FRICTION AT CONTACT SURFACES. GALVANNEED OR LIGHTLY-RUSTED SURFACES ARE ACCEPTABLE.
- IN CANADA, ALL A325 AND A490 BOLTS SHALL BE "FULLY-PRE-TENSIONED", EXCEPT FOR SECONDARY MEMBERS (PURLINS, GIRTS, OPENING FRAMING, ETC.) AND FLANGE BRACES.

SECONDARY MEMBERS (PURLINS, GIRTS, OPENING FRAMING, ETC.) AND FLANGE BRACES CONDITIONS MAY ALWAYS BE "SNUG-TIGHT", UNLESS INDICATED OTHERWISE IN THESE DRAWINGS.

### 6. GENERAL DESIGN NOTES:

- ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS ARE DESIGNED IN ACCORDANCE WITH ANSI/AISC 360 "SPECIFICATIONS" FOR STRUCTURAL STEEL BUILDINGS" OR THE CAN/CSA 516 "LIMIT STATES DESIGN OF STEEL STRUCTURES", AS REQUIRED BY THE SPECIFIED BUILDING CODE.
- ALL WELDING OF STRUCTURAL STEEL IS BASED ON EITHER AWS D11.1 "STRUCTURAL WELDING CODE" STEEL OR CAN/CSA W59 "WELDED STEEL CONSTRUCTION (METAL ARC WELDING)", AS REQUIRED BY THE SPECIFIED BUILDING CODE.
- ALL COLD FORMED MEMBERS ARE DESIGNED IN ACCORDANCE WITH ANSI/AISI S100 OR CAN/CSA 5138 "SPECIFICATIONS" FOR COLD FORMED STEEL.
- ALL WELDING OF COLD FORMED STEEL IS BASED ON AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL" OR CAN/CSA W59 "WELDED STEEL CONSTRUCTION (METAL ARC WELDING)", AS REQUIRED BY THE SPECIFIED BUILDING CODE.
- ALL NUCOR BUILDING GROUP FACILITIES ARE AS AC-472 ACCREDITED FOR DESIGN AND FABRICATION OF METAL BUILDING SYSTEMS. FOR PROJECTS IN CANADA, DESIGN AND FABRICATION ARE DONE ONLY IN FACILITIES THAT ARE ALSO CAN/CSA A490 AND W47.1 CERTIFIED.
- IF JOISTS ARE INCLUDED WITH THIS PROJECT, THEY ARE SUPPLIED AS A PART OF THE SYSTEMS ENGINEERED METAL BUILDING AND ARE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1928.758 OF THE OSHA SAFETY STANDARDS FOR STEEL ERECTION, DATED JANUARY 18, 2001.
- COLUMN BASE PLATES ARE DESIGNED NOT TO EXCEED THE ALLOWABLE BEARING STRESS OF CONCRETE THAT HAS A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS.

THE DRAWINGS AND THE METAL BUILDING THEY REPRESENT ARE THE PRODUCT OF THE METAL BUILDING MANUFACTURER. THE REGISTERED PROFESSIONAL ENGINEER'S SEAL PERTAINS ONLY TO THE REQUIREMENTS LISTED HEREIN FOR THE MATERIALS DESIGNED AND SUPPLIED BY THE METAL BUILDING MANUFACTURER. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED OR ENGAGED BY THE METAL BUILDING MANUFACTURER AND DOES NOT SERVE AS OR REPRESENT THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.

### 7. GLOSSARY OF ABBREVIATIONS:

|                                      |                                          |
|--------------------------------------|------------------------------------------|
| APL = A-PANEL FOR THE LINER          | H.S.B. = HIGH STRENGTH BOLTS             |
| APS = A-PANEL FOR THE SOFFIT         | HT = HEIGHT                              |
| APW = A-PANEL FOR THE WALL           | LLV = LONG LEG VERTICAL                  |
| AR = ANCHOR RODS                     | LSN = LOC SEAM NON-SWAGED ROOF PANELS    |
| BS = BOTH SIDES                      | LS = LOC SEAM SWAGED ROOF PANELS         |
| B.U. = BUILT-UP                      | MAX = MAXIMUM                            |
| C.F. = CONCEALED FASTENED ROOF PANEL | M.B. = MACHINE BOLTS                     |
| CA = DIAMETER                        | MRS = METAL BUILDING SUPPLIER            |
| FLG = FLANGE                         | MIN = MINIMUM                            |
| F.S. = FAN SIDE                      | N/A = NOT APPLICABLE                     |
| GA. = GAUGE                          | NC = NOT IN CONTRAST                     |
| ?? = PART MARK TO BE DETERMINED AND  | WILL BE UPDATED ON CONSTRUCTION DRAWINGS |

## BUILDING INFORMATION

### PRIMER COLORS

PRIMARY PRIMER COLOR: RED SECONDARY PRIMER COLOR: RED

### ROOF SHEETING

TYPE: S33 GAUGE: 24 FINISH: Dark Bronze CLIP TYPE: Toll Sliding  
THERMAL BLOCKS: No EPS FOAM SPACER: No ROOF LINE TRIM, PAINTED: Dark Bronze  
YES ☐ NO ☐ DOWNSPOUTS PAINTED: Dark Bronze GUTTERS PAINTED: Dark Bronze  
YES ☐ NO ☐ INSULATION 4 INCH (IF REQUIRED REFER TO CONTRACT FOR INSULATION SUPPLIER)  
YES ☐ NO ☐ PIPE JACKS, SIZE: QUANTITY:  
YES ☐ NO ☐ RIDGE VENTS, 10'-0" LONG X 6" THROAT. QUANTITY:  
YES ☐ NO ☐ ROOF FRAMED OPENINGS, SEE ROOF FRAMING PLAN FOR SIZES  
YES ☐ NO ☐ COMPOSITE S33 DECK, TYPE: N/A GAUGE: FINISH:

### WALL SHEETING

TYPE: R-Panel GAUGE: 26 FINISH: Desert Sand  
CORNER TRIM, PAINTED: Dark Bronze BASE TRIM, PAINTED: Burnished Slide  
YES ☐ NO ☐ WALKDOORS, QUANTITY: (2) 3070 PAINTED: Bronze  
YES ☐ NO ☐ WINDOWS, QUANTITY: PAINTED:  
YES ☐ NO ☐ INSULATION 4 INCH (IF REQUIRED REFER TO CONTRACT FOR INSULATION SUPPLIER)

### WALL FRAMED OPENINGS

YES ☐ NO ☐ FRAMED OPENING TRIM, PAINTED: Dark Bronze

Design Approved by: JPV

11/05/2025 10:37:08 AM

### BUILDING OPTIONS

YES ☐ NO ☐ LINER PANELS  
FRAMED OPENING TRIM, PAINTED: Regal White  
WALL TYPE: R-Panel GAUGE: 26 FINISH: Regal White WALL TRIM, PAINTED:  
CEILING TYPE: GAUGE: FINISH:  
YES ☐ NO ☐ TRANSLUCENT PANELS  
WALL: ROOF:  
INSULATED PANELS? YES ☐ NO ☐  
YES ☐ NO ☐ EAVE EXTENSION  
PROJ: TYPE: GAUGE: FINISH: SOFFIT TRIM AT BUILDING LINE PAINTED:  
YES ☐ NO ☐ RAKE EXTENSION  
PROJ: TYPE: GAUGE: FINISH: SOFFIT TRIM AT BUILDING LINE PAINTED:  
YES ☐ NO ☐ CANOPY  
AT EAVE LINE ☐ BELOW EAVE ☐ PROJECTION: CLEAR UNDER CANOPY BEAM:  
ROOF PANEL TYPE: GAUGE: FINISH: CAP TRIM PAINTED:  
SOFFIT PANEL TYPE: GAUGE: FINISH: SOFFIT TRIM AT BUILDING LINE PAINTED:  
YES ☐ NO ☐ PARTITION WALLS  
WALL PANEL TYPE: GAUGE: FINISH: TRIM PAINTED:  
YES ☐ NO ☐ WAINSCOT  
WALL PANEL TYPE: GAUGE: FINISH: JAMB TRIM PAINTED: TRANSITION TRIM PAINTED:  
YES ☐ NO ☐ FASCIA  
PROJ: TOP OF FASCIA HEIGHT:  
FACE PANEL TYPE: GAUGE: FINISH: CAP TRIM PAINTED:  
BACK PANEL TYPE: GAUGE: FINISH: BASE TRIM PAINTED:  
☐ CLOSED SYSTEM, CLEAR UNDER SOFFIT TRIM:  
☐ SOFFIT PANEL TYPE: GAUGE: FINISH: SOFFIT TRIM AT BUILDING LINE PAINTED:  
☐ OPEN SYSTEM, (NO SOFFIT PANEL PROVIDED) CLEAR UNDER SOFFIT TRIM:  
YES ☐ NO ☐ PARAPET  
☐ STRUCTURAL PARAPET ☐ NON-STRUCTURAL PARAPET TOP OF PARAPET HEIGHT:  
BACK PANEL TYPE: GAUGE: FINISH:  
YES ☐ NO ☐ CRANES (SEE CRANE PLAN FOR ADDITIONAL INFORMATION)  
YES ☐ NO ☐ MEZZANINE (SEE MEZZANINE PLAN FOR ADDITIONAL INFORMATION)



## BUILDING LOADS

DESIGN CODE: North Carolina (NCBC 2018)

ROOF LIVE LOAD: 20.00 PSF RISK CATEGORY: I

LIVE LOAD REDUCIBLE: Yes

GROUND SNOW LOAD: 15.00 PSF SNOW EXP. FACTOR, C<sub>e</sub>: 1.00

SNOW IMPORTANCE FACTOR, I<sub>s</sub>: .80

WIND: 107 / 83 MPH  
(V) / (V<sub>ref</sub>)

C & C PRESSURES (PSF): 21 / -28  
EXPOSURE: B

UL 90 NO  
R-Panel Roof-Const. No. 161: R-Panel Roof w/ Translucent Panel-Const. No. 167  
S33 Roof-Const. No. 552: S33 Roof w/ Translucent Panel-Const. No. 590  
Composite CFR Roof-Const. No. 552A: S33 Roof-Const. No. 332.

SEISMIC INFORMATION S<sub>e</sub>: 0.190 S<sub>1</sub>: 0.071

Design S<sub>ds</sub>/S<sub>d1</sub>: 0.203 / 0.114 Site Class: D

Seismic Imp. Factor: 1.00 Seismic Design Category: B

Analysis Procedure: Equivalent Lateral Force Method

Basic SEFS: Not Detailed for Seismic

### NOTES:

1) COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILING, ETC., ARE SUSPENDED FROM ROOF MEMBERS, CONSULT THE M.B.S. IF THESE CONCENTRATED LOADS EXCEED 500 POUNDS (USING THE WEB MOUNT DETAIL) OR 200 POUNDS (USING THE FLANGE MOUNT DETAIL), OR IF INDIVIDUAL MEMBERS ARE LOADED SIGNIFICANTLY MORE THAN OTHERS.

2) THE DESIGN OF STRUCTURAL MEMBERS SUPPORTING GRAVITY LOADS IS CONTROLLED BY THE MORE CRITICAL EFFECT OF ROOF LIVE LOAD OR ROOF SNOW LOAD, AS DETERMINED BY THE APPLICABLE CODE.

3) P<sub>m</sub> IS BASED ON THE MINIMUM ROOF SNOW LOAD CALCULATED PER BUILDING CODE OR THE CONTRACT SPECIFIED SNOW LOAD, WHICHEVER IS GREATER. THIS VALUE, P<sub>m</sub>, IS ONLY APPLIED IN COMBINATION WITH THE DEAD AND COLLATERAL LOADS. ROOF SNOW IN OTHER LOADING CONDITIONS IS DETERMINED BY THE SPECIFIED BUILDING CODE.

| BUILDING                             |                                       |
|--------------------------------------|---------------------------------------|
| ROOF DEAD (PSF): 3.25                | ROOF SNOW P <sub>m</sub> (PSF): 12.00 |
| P <sub>SL</sub> COL (PSF): 3.00      | WIND ENCLASURE: Enclosed              |
| SEC. COL (PSF): 3.00                 | GC: 1.0                               |
| SNOW S <sub>e</sub> : 1.00           | SEISMIC R: 3.00                       |
| SNOW C <sub>e</sub> : 1.00           | SEISMIC C <sub>e</sub> : 0.068        |
| ROOF SNOW P <sub>m</sub> (PSF): 8.40 | BASE SHEAR (KIPS): 2.75               |

Christopher E. Weidner

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ENGINEERING PERFORMED BY NUCOR CORPORATION

COA # F-1470

200 WHETSTONE ROAD  
SWANSEA, SC 29160

## DRAWING INDEX

ISOMETRIC ISO1  
COVERSHEET C1, C2  
ANCHOR BOLT DRAWINGS E1, F2  
COLUMN BASE REACTIONS E1  
STRUCTURAL/SHEETING DRAWINGS E1 - E8  
DETAILS

|             |            |
|-------------|------------|
| DATE        | 11/04/2025 |
| TIME        | 11/04/2025 |
| USER        | MS BLS JPV |
| USER        | MS BLS JPV |
| USER        | MS BLS JPV |
| ANCHOR RODS |            |
| PERMITS     |            |

NUCOR BUILDING SYSTEMS

NUCOR BUILDING SYSTEMS

NUCOR BUILDING SYSTEMS

NUCOR BUILDING SYSTEMS

NUCOR BUILDING SYSTEMS

NUCOR BUILDING SYSTEMS

Fluorfenning 2  
354 Pointer Creek Dr Angier, NC 27501

Harold Turner Builders  
Jacksonville, NC 28540

JOHN NUMBER  
A2580779A

COVERSHEET

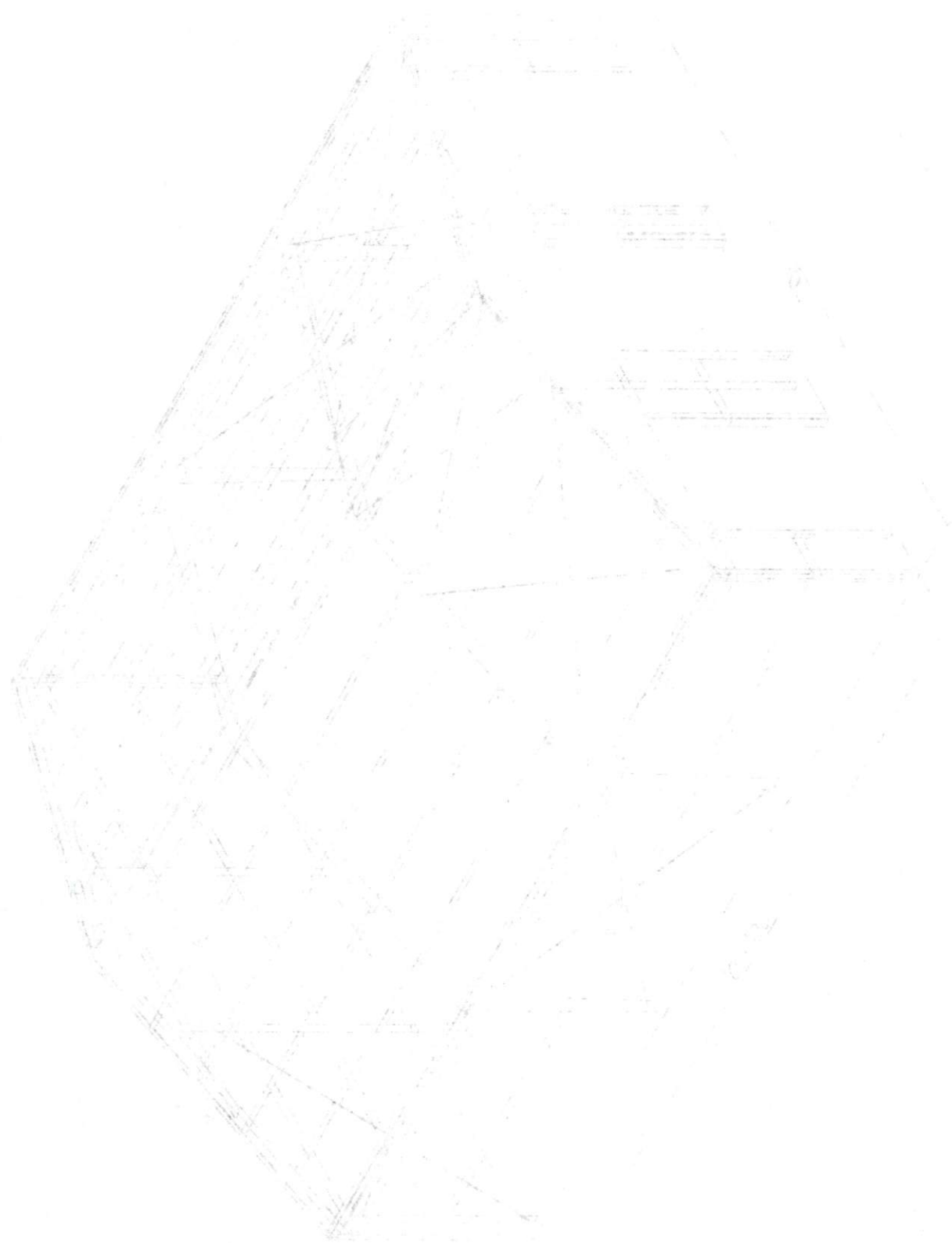
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DEPARTMENT OF AGRICULTURE

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

2

[illegible]



Technical drawing of a ship's hull cross-section, showing internal structural ribs and a curved outer profile. The drawing is oriented diagonally on the page. Below the drawing, there is a block of text, likely a title block or a list of specifications, which is mostly illegible due to the image quality. The text appears to be in a technical or engineering context, possibly describing the dimensions and materials of the hull.

FOR OCCUPANCY (RISK) CATEGORY I OR II, IBC PROVISIONS INDICATE THAT SINGLE-STORY BUILDINGS SHALL HAVE "NO DRIFT LIMIT" PROVIDED THAT INTERIOR WALLS, PARTITIONS, CEILINGS, AND EXTERIOR WALL SYSTEMS HAVE BEEN DESIGNED TO ACCOMMODATE THE SEISMIC STORY DRIFTS. INTERIOR WALLS, PARTITIONS, CEILINGS, OR EXTERIOR WALL SYSTEMS NOT PROVIDED BY THE METAL BUILDING MANUFACTURER SHALL BE DESIGNED AND DETAILED BY OTHERS TO ACCOMMODATE THE SEISMIC STORY DRIFTS. SEISMIC DRIFT VALUES MAY BE OBTAINED FROM THE METAL BUILDING MANUFACTURER.

BCL2

THIS BUILDING SYSTEM DESIGN IS BASED ON UNIFORMLY APPLYING THE CONTRACT-SPECIFIED LIVE, SNOW, WIND, SEISMIC, COLLATERAL AND AUXILIARY LOADS. IN ADDITION, THE DESIGN IS BASED ON APPLYING A CODE-DEFINED LIVE LOAD (INCLUDING APPLICABLE REDUCTIONS) AND A CODE-DEFINED SNOW LOAD (BASED ON CONTRACT-SPECIFIED GROUND SNOW) FOR ALL PARTIAL LOADING AND UNBALANCED SNOW LOAD CONDITIONS.

BCL4

ACCESSORIES (DOORS, WINDOWS, ETC.) NOT PROVIDED BY THE METAL BUILDING MANUFACTURER MUST BE DESIGNED AS "COMPONENTS AND CLADDING" IN ACCORDANCE WITH THE SPECIFIC WIND PROVISIONS OF THE REFERENCED BUILDING CODE DISPLAYED ON THE COVER PAGE OF THIS DRAWING PACKET.

MO1

FRAMED OPENINGS HAVE BEEN DESIGNED TO SUPPORT WIND LOAD NORMAL TO THE WALL BASED ON THE STANDARD BUILDING CODE CRITERIA. FRAMED OPENINGS HAVE NOT BEEN DESIGNED FOR ANY ADDITIONAL MOMENT OR CATENARY FORCES FROM THE DOOR. ANY CHANGE TO THE INFORMATION SHOWN HERE WILL REQUIRE AN ENGINEERING INVESTIGATION AND POSSIBLE BUILDING REINFORCEMENT.

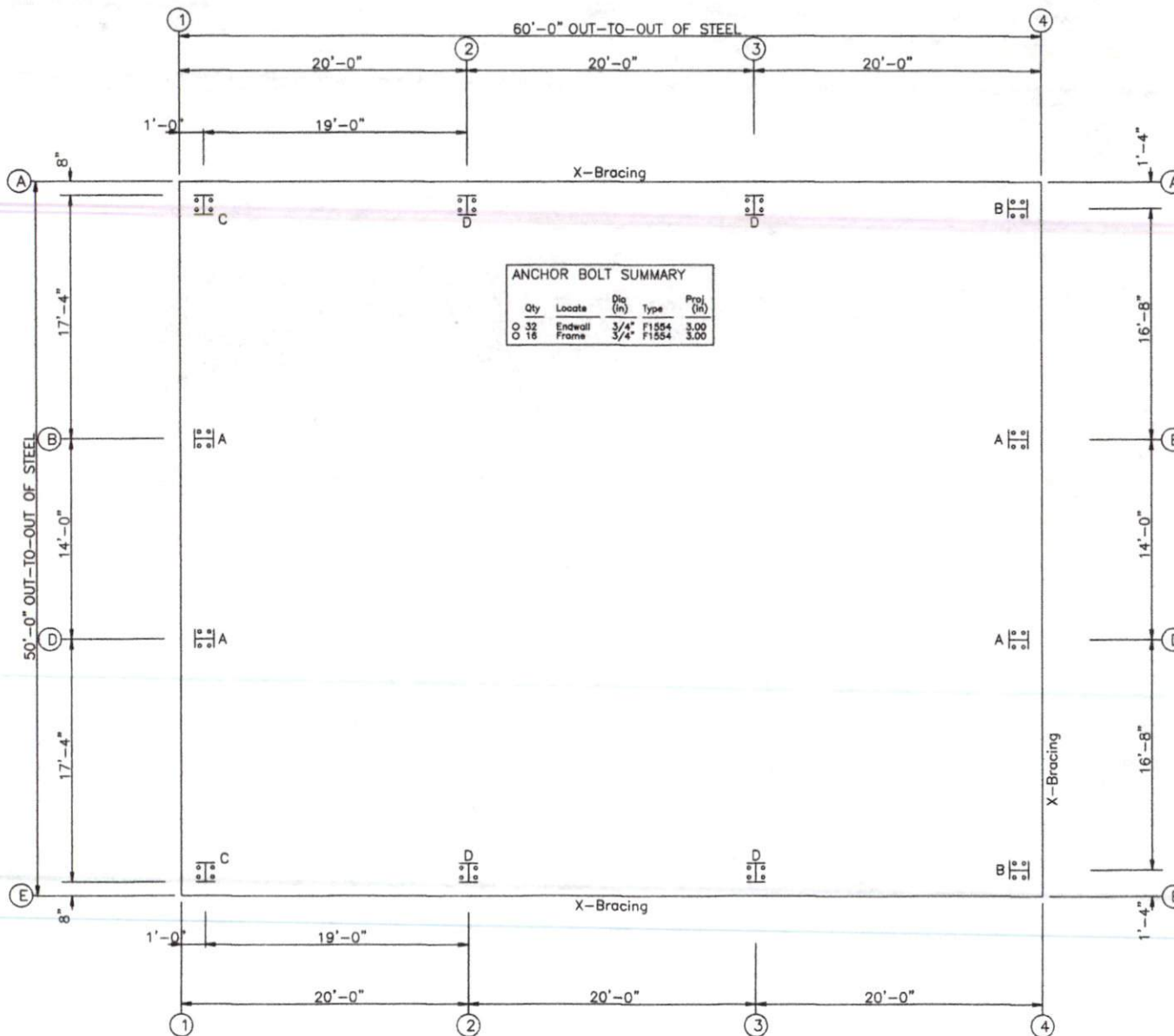
MO2

IF SNOW GUARDS OR OTHER DEVICES INTENDED TO HOLD SNOW AND/OR ICE ACCUMULATION ON THE ROOF SYSTEM ARE TO BE USED ON THIS PROJECT, THEY MUST BE INSTALLED UNDER THE GUIDANCE OF THE PROJECT "ENGINEER OF RECORD" (EOR), NOT THE METAL BUILDING MANUFACTURER, SO AS NOT TO EXCEED THE DESIGN ROOF SNOW LOAD ON THIS PROJECT.

RA3

|                                                                                                                                                                                                                                                                                                                                                                  |                                                                       |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------|
| <p><b>NUCOR BUILDING SYSTEMS</b><br/>         354 Pointer Creek Dr Angier, NC 27501<br/>         PHONE (919) 832-3381 FAX (919) 832-3386<br/>         TOLL FREE 1-800-368-1500 FAX 1-800-368-2118<br/>         650 AVONCE TRAIL, TERRELL, TX 75760<br/>         PHONE (817) 436-1000 FAX (817) 436-1001<br/>         PHONE (408) 918-3100 FAX (408) 918-3101</p> |                                                                       | <p>DATE<br/>11/04/2025</p> |
| <p>PROJECT NAME<br/>Flemming 2</p>                                                                                                                                                                                                                                                                                                                               | <p>CUSTOMER NAME<br/>354 Pointer Creek Dr Angier, NC 27501</p>        | <p>DATE<br/>11/04/2025</p> |
| <p>JOB NUMBER<br/>A25B0779A</p>                                                                                                                                                                                                                                                                                                                                  | <p>ENGINEER<br/>Harold Turner Builders<br/>Jacksonville, NC 28540</p> | <p>DATE<br/>11/04/2025</p> |
| <p>SHEET TITLE<br/>ADDITIONAL NOTES</p>                                                                                                                                                                                                                                                                                                                          |                                                                       | <p>DATE<br/>11/04/2025</p> |
| <p>SEAL<br/>058368<br/>REGISTERED PROFESSIONAL ENGINEER<br/>JOSEPH E. WALLACE</p>                                                                                                                                                                                                                                                                                |                                                                       | <p>DATE<br/>11/04/2025</p> |
| <p>THIS SEAL IS VALID ONLY FOR THE PROJECT AND EXPIRES 12 MONTHS AFTER THE DATE OF ISSUANCE. IT IS THE RESPONSIBILITY OF THE ENGINEER TO MAINTAIN THE SEAL IN A VALID STATE. THE SEAL IS NOT VALID FOR ANY OTHER PROJECT OR FOR ANY OTHER ENGINEER.</p>                                                                                                          |                                                                       | <p>DATE<br/>11/04/2025</p> |
| <p>C2 of 2</p>                                                                                                                                                                                                                                                                                                                                                   |                                                                       | <p>DATE<br/>11/04/2025</p> |





ANCHOR BOLT PLAN  
NOTE: All Base Plates @ 100'-0" (U.N.)

## ANCHOR BOLT PLAN

### GENERAL NOTES

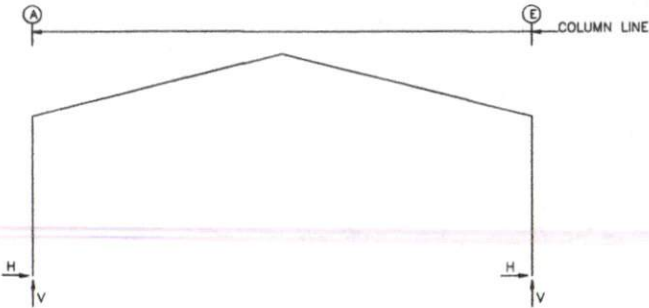
1. THE SPECIFIED ANCHOR ROD DIAMETER ASSUMES F1554 GRADE 36 UNLESS NOTED OTHERWISE. ANCHOR ROD MATERIAL OF EQUAL DIAMETER MEETING OR EXCEEDING THE STRENGTH REQUIREMENTS SET FORTH ON THESE DRAWINGS MAY BE UTILIZED AT THE DISCRETION OF THE FOUNDATION DESIGN ENGINEER. ANCHOR ROD EMBEDMENT LENGTH SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER.
2. METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR PROJECT FOUNDATION DESIGN. THE FOUNDATION DESIGN IS THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER, FAMILIAR WITH LOCAL SITE CONDITIONS.
3. ANCHOR RODS, NUTS, FLAT WASHERS FOR ANCHOR RODS, EXPANSION BOLTS, AND CONCRETE/MASONRY EMBEDMENT PLATES ARE NOT BY METAL BUILDING MANUFACTURER.
4. THE ANCHOR ROD LOCATIONS PROVIDED BY METAL BUILDING MANUFACTURER SATISFY PERTINENT REQUIREMENTS FOR THE DESIGN OF THE MATERIALS SUPPLIED BY THE METAL BUILDING MANUFACTURER. IT IS THE RESPONSIBILITY OF THE FOUNDATION ENGINEER TO MAKE CERTAIN THAT SUFFICIENT EDGE DISTANCE IS PROVIDED FOR ALL ANCHOR RODS IN THE DETAILS OF THE FOUNDATION DESIGN.
5. DRAWINGS ARE NOT TO SCALE. SEE DETAILS FOR COLUMN ORIENTATION.
6. THE ANCHOR ROD PLAN INDICATES WHERE THE ANCHOR RODS ARE TO BE PLACED AS WELL AS THE FOOTPRINT OF THE METAL BUILDING. IT IS ESSENTIAL THAT THESE ANCHOR ROD PATTERNS BE FOLLOWED. IF THESE SETTINGS DIFFER FROM THE ARCHITECTURAL FOUNDATION PLANS, THE METAL BUILDING MANUFACTURER MUST BE CONTACTED IMMEDIATELY - BEFORE CONCRETE IS PLACED.
7. "SINGLE" CEE COLUMNS SHALL BE ORIENTED WITH THE "TOES" TOWARD THE LOW EAVE UNLESS NOTED OTHERWISE.
8. ALL DIMENSIONS ARE OUT TO OUT OF STEEL. IF CONCRETE NOTCH IS REQUIRED THEN THE REQUIRED DIMENSION SHOULD BE ADDED TO OBTAIN THE OUT TO OUT OF CONCRETE DIMENSIONS.
9. FINISHED FLOOR ELEVATION = 100'-0" BOTTOM OF BASE PLATE = 100'-0" UNLESS NOTED OTHERWISE.

|                                                      |  |                      |  |
|------------------------------------------------------|--|----------------------|--|
| PROJECT NAME<br>Fleming 2                            |  | PROJECT NO.<br>27501 |  |
| CLIENT NAME<br>354 Painter Creek Dr Angier, NC 27501 |  | DATE<br>11/04/2025   |  |
| CUSTOMER NAME<br>Harold Turner Builders              |  | DATE<br>11/04/2025   |  |
| JOB NUMBER<br>Jacksonville, NC 28540                 |  | ANCHOR RODS<br>FEMES |  |
| SHEET TITLE<br>ANCHOR BOLT PLAN                      |  | SHEET<br>F1 of 2     |  |

CHRYSTOPHER E. WALCOTT  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF NORTH CAROLINA  
LICENSE NO. 55836B



FRAME LINES: 2 3



RIGID FRAME: ANCHOR BOLTS & BASE PLATES

| Frm Line | Col Line | Anc. Bolt Qty | Bolt Dia | Base Plate Width (in) | Base Plate Length (in) | Base Plate Thick | Elev. (in) |
|----------|----------|---------------|----------|-----------------------|------------------------|------------------|------------|
| 2*       | A        | 4             | 0.750    | 8.000                 | 12.50                  | 0.375            | 0.0        |
| 2*       | E        | 4             | 0.750    | 8.000                 | 12.50                  | 0.375            | 0.0        |

2\* Frame lines: 2 3

#### GENERAL NOTES

- ALL LOADING CONDITIONS ARE EXAMINED. THE MAXIMUM AND MINIMUM HORIZONTAL (H) AND VERTICAL (V) REACTIONS AND THE CORRESPONDING VERTICAL (V) OR HORIZONTAL (H) REACTIONS ARE REPORTED.
- REACTIONS ARE PROVIDED BY LOAD CASE IN ORDER TO AID THE FOUNDATION ENGINEER IN DETERMINING THE APPROPRIATE LOAD FACTORS AND COMBINATIONS TO BE USED WITH EITHER WORKING STRESS OR ULTIMATE STRENGTH DESIGN METHODS. WIND LOAD CASES ARE GIVEN FOR EACH PRIMARY WIND DIRECTION.
- FOR ASCE7-10 AND LATER BASED BUILDING CODES, THE UNFACTORED LOAD CASE REACTIONS DUE TO WIND ARE GENERATED USING THE ULTIMATE DESIGN WIND SPEED ( $V_{ult}$ ).
- POSITIVE (+) REACTIONS ARE AS SHOWN ABOVE. FOUNDATION LOADS ARE IN OPPOSITE DIRECTIONS.
- BRACING REACTIONS ARE IN THE PLANE OF THE BRACE WITH THE HORIZONTAL REACTION (H) ACTING AWAY FROM THE BRACED BAY AND THE VERTICAL REACTION (V) ACTING DOWNWARD.

#### \*\*\*\*\* RIGID FRAME LOAD CASE ABBREVIATIONS: \*\*\*\*\*

Wind\_L1/Wind\_R1: LATERAL WIND FROM THE LEFT/RIGHT, CASE 1  
 Wind\_L2/Wind\_R2: LATERAL WIND FROM THE LEFT/RIGHT, CASE 2  
 Wind\_Ln1/Wind\_Ln2: LONGITUDINAL WIND, CASE 1/2  
 Seismic\_L/Seismic\_R: LATERAL SEISMIC LOAD FROM LEFT/RIGHT  
 LWIND\_L/E/LWIND\_R/E: LONGITUDINAL WIND EDGE ZONES  
 F1UNB\_SL\_L/F1UNB\_SL\_R: UNBALANCED ROOF SNOW WITH WIND FROM LEFT/RIGHT  
 F2PAT\_LL #/F2PAT\_SL #: PARTIAL LIVE/SNOW LOADING FOR CONTINUOUS BEAM SYSTEMS

#### \*\*\*\*\* ENDWALL COLUMN LOAD CASE ABBREVIATIONS: \*\*\*\*\*

Collat: COLLATERAL LOAD  
 Rafter Wind\_L/Rafter Wind\_R: LATERAL WIND FROM THE LEFT/RIGHT  
 Brace Wind\_L/Brace Wind\_R: LATERAL WIND FROM THE LEFT/RIGHT  
 Wind\_P/Wind\_S: LONGITUDINAL WIND PRESSURE/SUCTION ON COLUMNS  
 Wind\_Ln: LONGITUDINAL WIND SUCTION ON ROOF  
 Seis\_L/Seis\_R: LATERAL SEISMIC LOAD FROM LEFT/RIGHT  
 E1UNB\_SL\_L/E1UNB\_SL\_R: UNBALANCED ROOF SNOW WITH WIND FROM LEFT/RIGHT  
 E2PAT\_LL #/E2PAT\_SL #: PARTIAL LIVE/SNOW LOADING FOR CONTINUOUS BEAM SYSTEMS

#### RIGID FRAME: BASIC COLUMN REACTIONS (k)

| Frame Line | Column Line | Dead | Collat | Live | Snow | Wind Left1 | Wind Right1 | Wind Left2 | Wind Right2 | Wind Press | Wind Suct | Wind Long1 | Wind Long2 |
|------------|-------------|------|--------|------|------|------------|-------------|------------|-------------|------------|-----------|------------|------------|
| 2*         | A           | 0.9  | 2.4    | 0.7  | 1.6  | 2.6        | 6.3         | 1.8        | 4.4         | -6.3       | -9.0      | 2.1        | -4.6       |
| 2*         | E           | -0.9 | 2.4    | -0.7 | 1.6  | -2.6       | 6.3         | -1.8       | 4.4         | -2.1       | -4.6      | 6.3        | -9.0       |

| Frame Line | Column Line | Wind Left2 | Wind Right2 | Wind Long1 | Wind Long2 | Seismic Left | Seismic Right |
|------------|-------------|------------|-------------|------------|------------|--------------|---------------|
| 2*         | A           | -5.6       | -5.6        | 1.8        | -1.3       | -0.9         | -6.0          |
| 2*         | E           | -1.8       | -1.3        | 6.6        | -5.6       | 0.9          | -6.0          |

| Frame Line | Column Line | MIN_SNOW | F1UNB_SL_L | F1UNB_SL_R |
|------------|-------------|----------|------------|------------|
| 2*         | A           | 2.6      | 6.3        | 1.7        |
| 2*         | E           | -2.6     | 6.3        | 1.7        |

#### ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

| Frm Line | Col Line | Dead | Collat | Live | Snow | Wind Left1 | Wind Right1 | Wind Left2 | Wind Right2 | Wind Press | Wind Suct | Wind Long1 | Wind Long2 |
|----------|----------|------|--------|------|------|------------|-------------|------------|-------------|------------|-----------|------------|------------|
| 1        | A        | 0.6  | 0.2    | 1.3  | 0.6  | -1.5       | -0.9        | -0.8       | -0.3        | -1.3       | 1.5       | -1.7       | -1.3       |
| 1        | B        | 1.4  | 0.6    | 4.0  | 1.7  | -3.8       | -2.6        | -2.9       | -1.5        | -2.6       | 2.9       | -3.7       | -1.8       |
| 1        | D        | 1.4  | 0.6    | 4.0  | 1.7  | -2.6       | -3.8        | -1.5       | -2.9        | -2.6       | 2.9       | -1.8       | -3.7       |
| 1        | E        | 0.6  | 0.2    | 1.3  | 0.6  | -0.9       | -1.5        | -0.3       | -0.8        | -1.3       | 1.5       | -1.7       | -1.3       |

| Frm Line | Col Line | Seis Left | Seis Right | Seis Long | MIN_SNOW | E1UNB_SL_L | E1UNB_SL_R |
|----------|----------|-----------|------------|-----------|----------|------------|------------|
| 1        | A        | 0.0       | 0.1        | 0.0       | 0.0      | 0.8        | 0.7        |
| 1        | B        | 0.0       | -0.1       | 0.0       | 0.0      | 2.4        | 0.0        |
| 1        | D        | -0.1      | 0.0        | 0.0       | 0.0      | 2.4        | 0.0        |
| 1        | E        | 0.1       | 0.0        | 0.0       | 0.0      | 0.8        | 0.3        |

| Frm Line | Col Line | Dead | Collat | Live | Snow | Wind Left1 | Wind Right1 | Wind Left2 | Wind Right2 | Wind Press | Wind Suct | Wind Long1 | Wind Long2 |
|----------|----------|------|--------|------|------|------------|-------------|------------|-------------|------------|-----------|------------|------------|
| 4        | E        | 0.7  | 0.3    | 1.6  | 0.7  | -1.6       | -1.0        | -0.8       | -0.3        | -1.2       | 1.4       | -1.9       | -1.3       |
| 4        | D        | 1.3  | 0.6    | 3.7  | 1.6  | -3.8       | -2.5        | -2.9       | -1.5        | -2.6       | 2.9       | -3.5       | -1.8       |
| 4        | B        | 1.3  | 0.6    | 3.7  | 1.6  | -1.9       | -3.8        | -1.0       | -2.9        | -2.6       | 2.9       | -1.8       | -3.3       |
| 4        | A        | 0.7  | 0.3    | 1.6  | 0.7  | -1.6       | -1.5        | -0.8       | -0.8        | -1.2       | 1.4       | -1.3       | -2.0       |

| Frm Line | Col Line | Seis Left | Seis Right | Seis Long | MIN_SNOW | E2UNB_SL_L | E2UNB_SL_R |
|----------|----------|-----------|------------|-----------|----------|------------|------------|
| 4        | E        | 0.0       | 0.1        | 0.0       | 0.0      | 1.0        | 0.0        |
| 4        | D        | 0.0       | -0.1       | 0.0       | 0.0      | 2.2        | 0.0        |
| 4        | B        | 0.0       | 0.0        | 0.0       | 0.0      | 2.2        | 0.0        |
| 4        | A        | 0.0       | 0.0        | 0.0       | 0.0      | 1.0        | 0.2        |

#### BUILDING BRACING REACTIONS

| Loc | Line | Col Line | Reactions (k) | Panel Shear (lb/ft) | Note |
|-----|------|----------|---------------|---------------------|------|
| L   | EW   | 1        | 4.0           | 2.8                 | 1.4  |
| F   | SW   | E        | 2.3           | 1.9                 | 2.1  |
| R   | EW   | A        | 1.9           | 2.1                 | 0.5  |
| B   | SW   | A        | 3.2           | 4.0                 | 2.8  |

(i) Bracing in roof to rigid frame

Reactions for seismic represent shear force, Eh  
 Reaction values shown are unfactored

#### ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES

| Frm Line | Col Line | Anc. Bolt Qty | Bolt Dia | Base Plate Width (in) | Base Plate Length (in) | Base Plate Thick | Elev. (in) |
|----------|----------|---------------|----------|-----------------------|------------------------|------------------|------------|
| 1        | A        | 4             | 0.750    | 8.000                 | 8.500                  | 0.375            | 0.0        |
| 1        | B        | 4             | 0.750    | 8.000                 | 8.500                  | 0.375            | 0.0        |
| 1        | D        | 4             | 0.750    | 8.000                 | 8.500                  | 0.375            | 0.0        |
| 1        | E        | 4             | 0.750    | 8.000                 | 8.500                  | 0.375            | 0.0        |
| 4        | E        | 4             | 0.750    | 8.000                 | 8.500                  | 0.375            | 0.0        |
| 4        | D        | 4             | 0.750    | 8.000                 | 8.500                  | 0.375            | 0.0        |
| 4        | B        | 4             | 0.750    | 8.000                 | 8.500                  | 0.375            | 0.0        |
| 4        | A        | 4             | 0.750    | 8.000                 | 8.500                  | 0.375            | 0.0        |

|             |            |
|-------------|------------|
| DATE        | 11/04/2025 |
| TIME        | 11:04      |
| USER        | MS         |
| PROJECT     | MS         |
| DESCRIPTION | MS         |
| REVISION    | MS         |
| APPROVED    | MS         |
| DESIGNED    | MS         |
| CHECKED     | MS         |
| INCHES      | MS         |
| FEET        | MS         |

**NUCOR**  
 BUILDING SYSTEMS  
 354 Pointer Creek Dr Angier, NC 27501  
 PHONE: (919) 837-3800 FAX: (919) 837-3801  
 WWW.NUCOR.COM  
 10000 N. 10th Ave., Suite 100, Aurora, CO 80015  
 PHONE: (303) 744-1000 FAX: (303) 744-1001  
 10000 N. 10th Ave., Suite 100, Aurora, CO 80015  
 PHONE: (303) 744-1000 FAX: (303) 744-1001

PROJECT NAME  
 Flemming 2  
 354 Pointer Creek Dr Angier, NC 27501  
 CLIENT NAME  
 Harold Turner Builders  
 Jacksonville, NC 28540  
 JOB NUMBER  
 A25B0779A  
 SHEET TITLE  
 REACTIONS



This seal is valid only for the State of North Carolina. It is not valid for any other state or country. The holder of this seal is responsible for the accuracy of the information provided. The holder of this seal is not responsible for the accuracy of the information provided. The holder of this seal is not responsible for the accuracy of the information provided.



| MEMBER | TABLE     |              | OUTSIDE FLANGE   |                  | INSIDE FLANGE    |                  |
|--------|-----------|--------------|------------------|------------------|------------------|------------------|
| Mark   | Web Depth | Web Plate    | W x Thk x Length | W x Thk x Length | W x Thk x Length | W x Thk x Length |
| RF-1   | Start/End | Thick Length | 6 x 1/4 x 185.0  | 6 x 1/4 x 171.6  | 6 x 1/4 x 171.6  | 6 x 1/4 x 171.6  |
| RF-1-1 | 18.0/18.0 | 0.150        | 6 x 3/8 x 26.7   | 5 x 1/4 x 280.4  | 5 x 1/4 x 280.4  | 5 x 1/4 x 280.4  |
| RF-1-2 | 14.0/14.0 | 0.188        | 284.0            |                  |                  |                  |

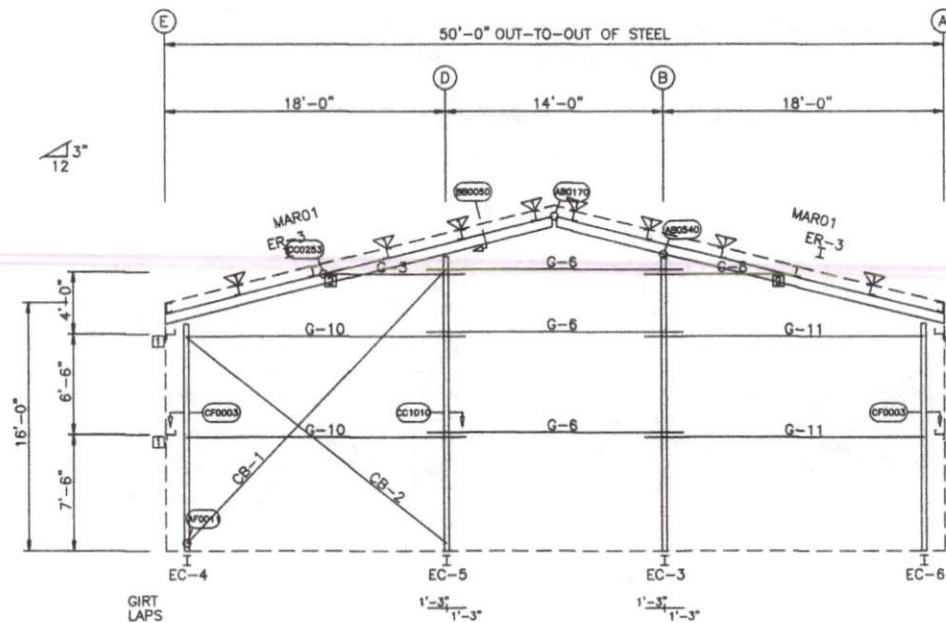
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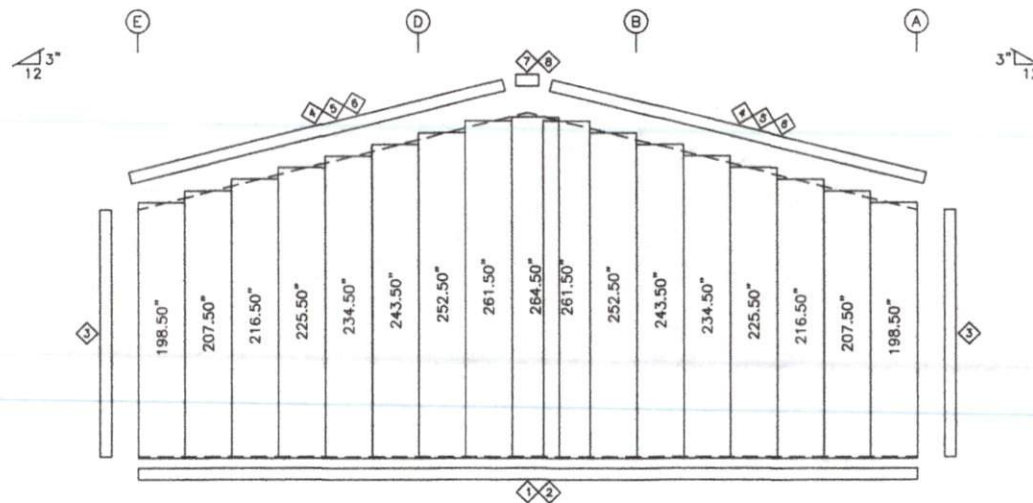








ENDWALL FRAMING: FRAME LINE 4



ENDWALL SHEETING & TRIM: FRAME LINE 4

PANELS: 26 Ga. RPW - Desert Sand PVDF

| BOLT TABLE   |      |      |      |
|--------------|------|------|------|
| FRAME LINE 4 |      |      |      |
| LOCATION     | QUAN | TYPE | DIA  |
| ER-3/ER-3    | 8    | A325 | 1/2" |
| Column/Ref   |      |      |      |
|              | 4    | A325 | 1/2" |

| TRIM TABLE   |        |         |           |
|--------------|--------|---------|-----------|
| FRAME LINE 4 |        |         |           |
| ID           | PART   | LENGTH  | DETAIL    |
| 1            | BSA242 | 242.000 | TRIM_7118 |
| 2            | BSA121 | 121.000 | TRIM_7118 |
| 3            | COB242 | 242.000 | TRIM_7132 |
| 4            | BSA121 | 121.000 | TRIM_5245 |
| 5            | RSA242 | 242.000 | TRIM_5245 |
| 6            | RTR121 | 121.000 | TRIM_5245 |
| 7            | MPAA03 | 26.440  |           |
| 8            | MPP03  | 14.380  |           |

| MEMBER TABLE |        |         |
|--------------|--------|---------|
| FRAME LINE 4 |        |         |
| MARK         | PART   | LENGTH  |
| EC-3         | W8x18  | 230.000 |
| EC-4         | W8x18  | 180.000 |
| EC-5         | W8x18  | 230.000 |
| EC-6         | W8x18  | 180.000 |
| ER-3         | W8x18  | 309.000 |
| G-3          | 08Z060 | 102.000 |
| G-6          | 08Z060 | 198.000 |
| G-8          | 08Z060 | 102.000 |
| G-10         | 08Z060 | 222.500 |
| G-11         | 08Z060 | 222.500 |
| CB-1         | RD05-  | 306.000 |
| CB-2         | RD05-  | 271.000 |

| FLANGE BRACE TABLE |       |       |         |
|--------------------|-------|-------|---------|
| FRAME LINE 4       |       |       |         |
| ID                 | SIDES | MARK  | CLIP    |
| 1                  | 1     | FBC30 | FBL&N01 |

| CONNECTION PLATES |           |
|-------------------|-----------|
| FRAME LINE 4      |           |
| ID                | MARK/PART |
| 1                 | GCC03&bt  |
| 2                 | GCC12&bt  |

NUCOR BUILDING SYSTEMS  
1000 N. 10TH ST., JACKSONVILLE, FL 32206  
TEL: 904.733.1000 FAX: 904.733.1001  
1000 N. 10TH ST., JACKSONVILLE, FL 32206  
TEL: 904.733.1000 FAX: 904.733.1001

PROJECT NAME  
Flemming 2  
354 Pointer Creek Dr Angier, NC 27501

CUSTOMER NAME  
Harold Turner Builders  
Jacksonville, NC 28540

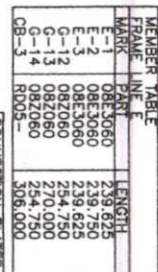
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DATE  
11/04/2025

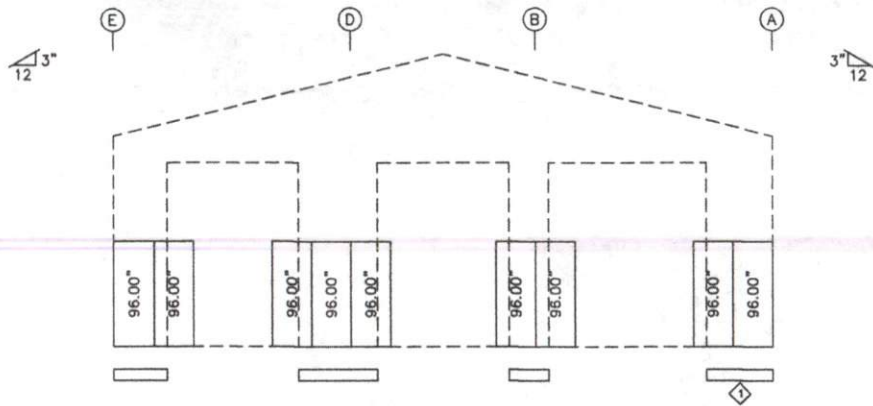
SHEET TITLE  
RIGHT ENDWALL ELEVATION

SHEET  
E5 of 8

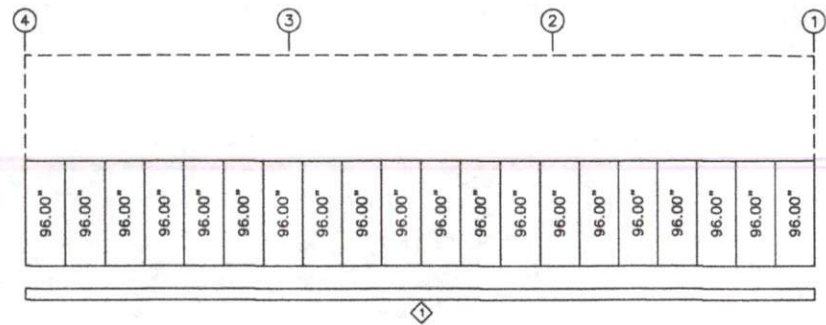
THOMAS E. WALCOTT  
Professional Engineer  
No. 058368  
North Carolina

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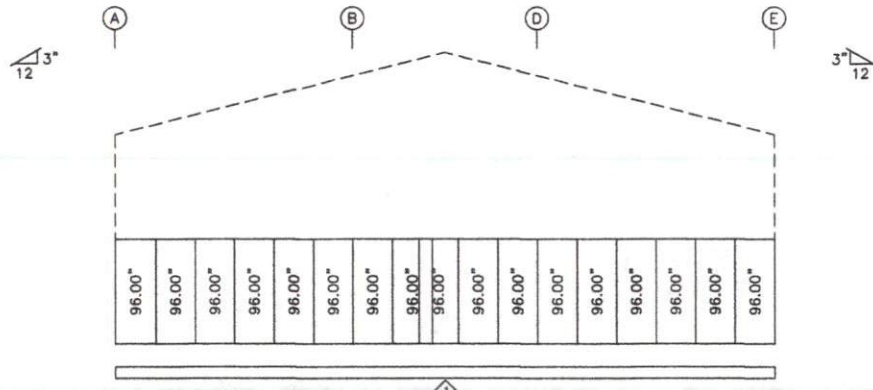




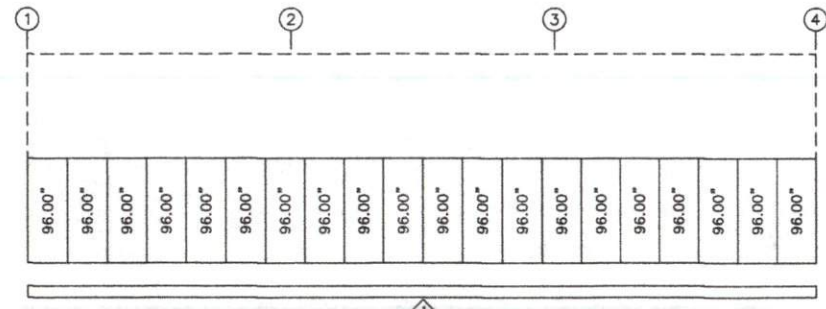
ENDWALL LINER SHEETING & TRIM: FRAME LINE 1  
PANELS: 26 Ga. RPL - Regal White PVDF  
(As Viewed From Inside Of Building)



SIDEWALL LINER SHEETING & TRIM: FRAME LINE E  
PANELS: 26 Ga. RPL - Regal White PVDF  
(As Viewed From Inside Of Building)



ENDWALL LINER SHEETING & TRIM: FRAME LINE 4  
PANELS: 26 Ga. RPL - Regal White PVDF  
(As Viewed From Inside Of Building)



SIDEWALL LINER SHEETING & TRIM: FRAME LINE A  
PANELS: 26 Ga. RPL - Regal White PVDF  
(As Viewed From Inside Of Building)

GENERAL NOTES:

1. FIELD WORK OF THE LINER PANELS AT THE FLANGE BRACE LOCATIONS MAY BE REQUIRED.

| TRIM TABLE         |         |           |
|--------------------|---------|-----------|
| FRAME LINE 1 E 4 A |         |           |
| ID                 | PART    | LENGTH    |
| 1                  | No Trim | TRIM 9135 |

NUCOR BUILDING SYSTEMS  
1000 N. WILSON AVE., JACKSONVILLE, FL 32218  
TEL: 904.450.1000 FAX: 904.450.1001  
WWW.NUCORBUILDING.COM

PROJECT NAME  
Flemming 2  
354 Pointer Creek Dr Angier, NC 27501

CUSTOMER NAME  
Harold Turner Builders  
Jacksonville, NC 28540

JOB NUMBER  
A25B0779A

SHEET TITLE  
WALL LINER ELEVATIONS

SEAL  
058368  
CHRYSTOPHER E. WILKERSON  
PROFESSIONAL ENGINEER  
NORTH CAROLINA

E8 of 8



**AMERICAN BUILDINGS**

200 Whetstone Road  
Swansea, SC 29160

Phone: (706) 562-8020

Version: 1.6.13.0 (PROD)

Harold Turner Builders  
234 Thomas Loop Rd  
Jacksonville, NC 28540

Attn: Harold Turner

Project Location: Angier, NC 27501

Project Number: A25B0779A

Project Name: Flemming 2

Buildings: A->50'-0"x60'-0"x16'-0"(RCG, 3:12)

Tuesday, October 28, 2025

This Letter of Design Certification ensures that the materials furnished by the metal building supplier are designed in accordance with the information specified to the metal building supplier on the order documents and summarized by the loading information listed below. The Project Engineer of Record (not the metal building supplier) is responsible for verifying that the building code and design loads meet any and all applicable local requirements.

The Professional Engineer whose seal appears on this Letter of Certification is employed by the metal building manufacturer, a Member of MBMA, and does not serve as or represent the Engineer of Record for this project and shall not be construed as such.

**DESIGN LOAD CRITERIA:**

Structural Loads Applied in General Accordance with: North Carolina (NCBC 2018)  
Risk Category: I - Low Hazard

**PROJECT-WIDE LOADING INFORMATION:**

|                        |                   |                                                   |                                    |                            |                          |
|------------------------|-------------------|---------------------------------------------------|------------------------------------|----------------------------|--------------------------|
| Ground Snow Load:      | 15.00 psf         | Snow Exposure Factor,Ce:                          | 1.00                               | Snow Imp. Factor,Is:       | .80                      |
| Roof Live Load:        | 20.00 psf         | Reducible as per code                             |                                    |                            |                          |
| Design Wind Speed:     | 107 mph           | Nominal Design Wind Speed:                        | 83 mph                             | ***C&C Wind:21psf / -28psf |                          |
| UL90 Rated: No         |                   | Wind Exposure: B                                  |                                    |                            |                          |
| Seismic Criteria:      | Ss:0.190 S1:0.071 | *No ground snow included in seismic calculations. |                                    |                            |                          |
| Design Sds / Sd1:      | 0.203 / 0.114     | Analysis Procedure:                               | Equivalent Lateral Force Procedure |                            |                          |
| Seis. Imp. Factor,Ie:  | 1.00              | Long. SFRS:                                       | Not Detailed For Seismic           |                            |                          |
| Seis. Design Category: | B                 | Site Class:                                       | D                                  | Lat. SFRS:                 | Not Detailed For Seismic |

**BUILDING-SPECIFIC LOADING INFORMATION:**

| Bldg | Roof Dead (psf)* | Collateral Dead Pri (psf) | Collateral Dead Sec (psf) | Snow Coefficient Ct | Snow Coefficient Cs | Snow Load (psf) Ps (psf) | Snow Load (psf) **Pm (psf) | Wind Enclosure | GCpi  | R    | Seismic Cs | Seismic V (kips) |
|------|------------------|---------------------------|---------------------------|---------------------|---------------------|--------------------------|----------------------------|----------------|-------|------|------------|------------------|
| A    | 3.25             | 3.00                      | 3.00                      | 1.00                | 1.00                | 8.40                     | 12.00                      | Enclosed       | ±0.18 | 3.00 | 0.068      | 2.75             |

\*Primary Structural Not Included

\*\*Pm is based on the minimum roof snow load calculated per building code or the contract-specified roof snow load, whichever is greater. This value, Pm, is only applied in combination with Dead and Collateral Loads. Roof Snow in other loading conditions is determined per the specified Building Code.

\*\*\*Design wind pressures to be used for wall exterior component and cladding materials not provided by Metal Building Supplier

**Mezzanine Information:**

Floor Dead Load: N/A

Floor Collateral Load: N/A

Floor Live Load: N/A

**Crane Information:**

No cranes on building.

**Roof-Top Unit Information:**

No roof-top units on building.

Christopher E Waldrop

Digitally signed by Christopher E Waldrop  
DN: cn=Christopher E Waldrop, ou=Engineering,  
o=Nucor Building Systems, l=Swansea, s=South  
Carolina, serialNumber=1A52024023420967  
c=US  
Location: Swansea, SC  
Reason: I am approving this document  
Contact: jerry\_christopher\_waldrop@nucor.com  
Date: 2025.11.05 11:23:21 -0500

The design of structural members supporting roof gravity loads is controlled by the more critical effect of roof live load or roof snow applied in accordance with the governing building code.

**DESIGN STANDARDS REFERENCED:**

- AISC Specification for Structural Steel Buildings - Steel Construction Manual, 14th Edition, ©2010.
- AISI North-American Spec. for the Design of Cold-Formed Steel Structures, ©2012 Edition.
- IBC codes are designed in accordance with ASCE7-10 Edition.
- MBMA Metal Building Systems Manual, Latest Edition.
- AWS Latest Edition of Structural Welding Code.
- No buyout structural components provided on this project.

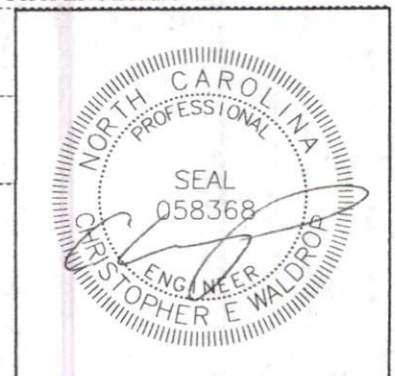
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY CHRISTOPHER WALDROP ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



ENGINEERING PERFORMED  
BY NUCOR CORPORATION

COA # F-1470

200 WHETSTONE ROAD  
SWANSEA, SC 29160



Professional Seal



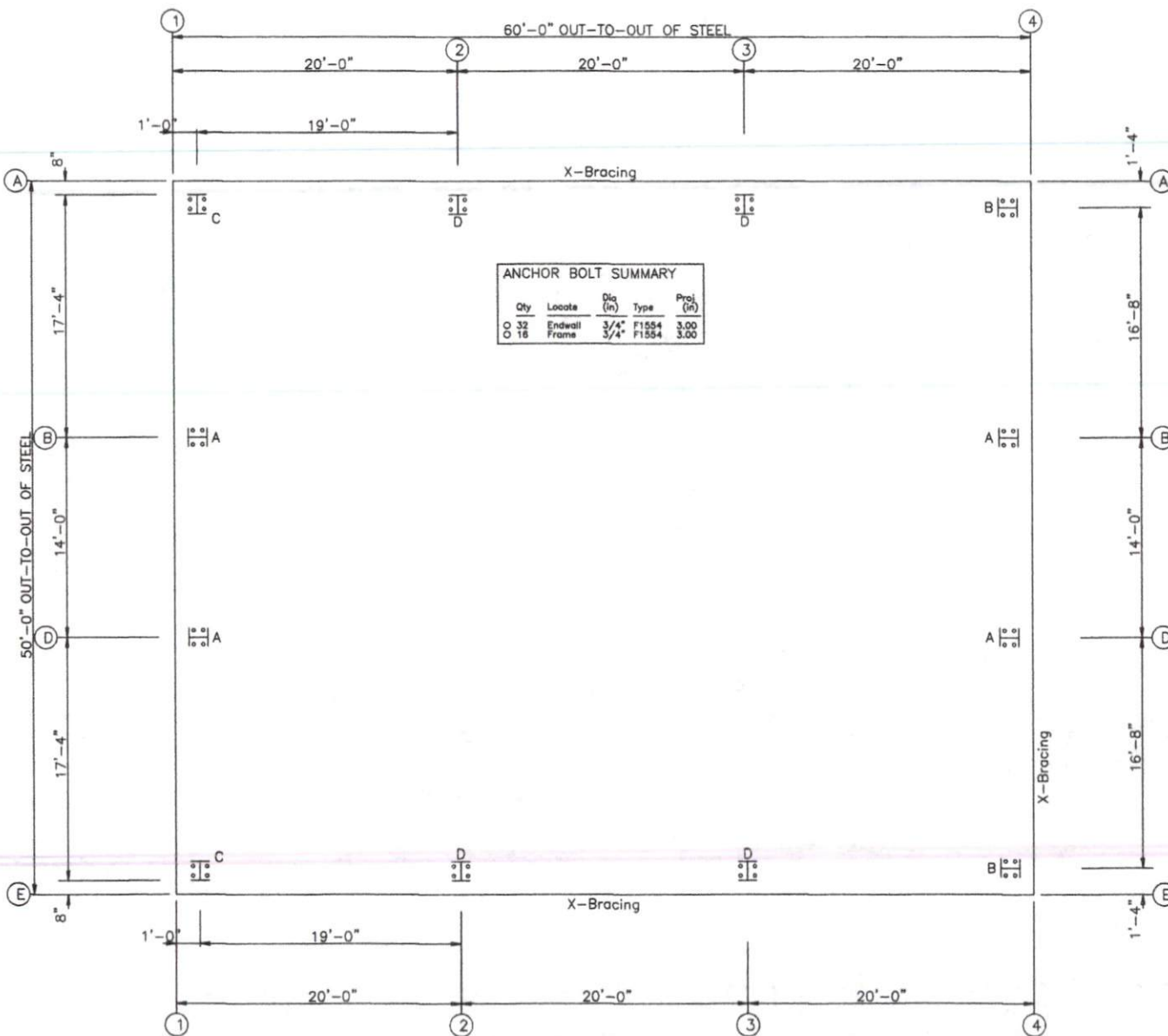












ANCHOR BOLT PLAN  
NOTE: All Base Plates @ 100'-0" (U.N.)

## ANCHOR BOLT PLAN

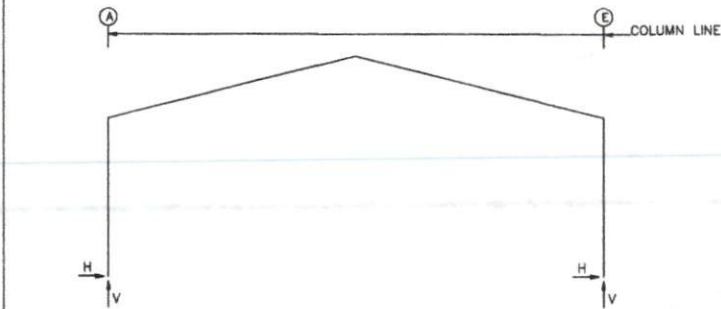
### GENERAL NOTES

1. THE SPECIFIED ANCHOR ROD DIAMETER ASSUMES F1554 GRADE 36 UNLESS NOTED OTHERWISE. ANCHOR ROD MATERIAL OF EQUAL DIAMETER MEETING OR EXCEEDING THE STRENGTH REQUIREMENTS SET FORTH ON THESE DRAWINGS MAY BE UTILIZED AT THE DISCRETION OF THE FOUNDATION DESIGN ENGINEER. ANCHOR ROD EMBEDMENT LENGTH SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER.
2. METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR PROJECT FOUNDATION DESIGN. THE FOUNDATION DESIGN IS THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER, FAMILIAR WITH LOCAL SITE CONDITIONS.
3. ANCHOR RODS, NUTS, FLAT WASHERS FOR ANCHOR RODS, EXPANSION BOLTS, AND CONCRETE/MASONRY EMBEDMENT PLATES ARE NOT BY METAL BUILDING MANUFACTURER.
4. THE ANCHOR ROD LOCATIONS PROVIDED BY METAL BUILDING MANUFACTURER SATISFY PERTINENT REQUIREMENTS FOR THE DESIGN OF THE MATERIALS SUPPLIED BY THE METAL BUILDING MANUFACTURER. IT IS THE RESPONSIBILITY OF THE FOUNDATION ENGINEER TO MAKE CERTAIN THAT SUFFICIENT EDGE DISTANCE IS PROVIDED FOR ALL ANCHOR RODS IN THE DETAILS OF THE FOUNDATION DESIGN.
5. DRAWINGS ARE NOT TO SCALE. SEE DETAILS FOR COLUMN ORIENTATION.
6. THE ANCHOR ROD PLAN INDICATES WHERE THE ANCHOR RODS ARE TO BE PLACED AS WELL AS THE FOOTPRINT OF THE METAL BUILDING. IT IS ESSENTIAL THAT THESE ANCHOR ROD PATTERNS BE FOLLOWED. IF THESE SETTINGS DIFFER FROM THE ARCHITECTURAL FOUNDATION PLANS, THE METAL BUILDING MANUFACTURER MUST BE CONTACTED IMMEDIATELY - BEFORE CONCRETE IS PLACED.
7. "SINGLE" CEE COLUMNS SHALL BE ORIENTED WITH THE "TOES" TOWARD THE LOW EAVE UNLESS NOTED OTHERWISE.
8. ALL DIMENSIONS ARE OUT TO OUT OF STEEL. IF CONCRETE NOTCH IS REQUIRED THEN THE REQUIRED DIMENSION SHOULD BE ADDED TO OBTAIN THE OUT TO OUT OF CONCRETE DIMENSIONS.
9. FINISHED FLOOR ELEVATION = 100'-0" BOTTOM OF BASE PLATE = 100'-0" UNLESS NOTED OTHERWISE.

|                |                                       |
|----------------|---------------------------------------|
| DATE           | 11/04/2025                            |
| TIME           | 11:04 AM                              |
| USER           | MS                                    |
| ANCHOR RODS    |                                       |
| PROJECT NAME   | Flemming 2                            |
| CUSTOMER NAME  | 354 Pointer Creek Dr Angier, NC 27501 |
| ARCHITECT      | Harold Turner Builders                |
| LOCATION       | Jacksonville, NC 28540                |
| PROJECT NUMBER | A25B0779A                             |
| SHEET TITLE    | ANCHOR BOLT PLAN                      |
| SHEET          | F1 of 2                               |



FRAME LINES: 2 3



RIGID FRAME: ANCHOR BOLTS & BASE PLATES

| Frm Line | Col Line | Anc. Bolt Qty | Base Plate (in) | Width | Length | Thick | Elev. (in) |
|----------|----------|---------------|-----------------|-------|--------|-------|------------|
| 2*       | A        | 4             | 0.750           | 8.000 | 12.50  | 0.375 | 0.0        |
| 2*       | E        | 4             | 0.750           | 8.000 | 12.50  | 0.375 | 0.0        |

2\* Frame lines: 2 3

#### GENERAL NOTES

- ALL LOADING CONDITIONS ARE EXAMINED. THE MAXIMUM AND MINIMUM HORIZONTAL (H) AND VERTICAL (V) REACTIONS AND THE CORRESPONDING VERTICAL (V) OR HORIZONTAL (H) REACTIONS ARE REPORTED.
- REACTIONS ARE PROVIDED BY LOAD CASE IN ORDER TO AID THE FOUNDATION ENGINEER IN DETERMINING THE APPROPRIATE LOAD FACTORS AND COMBINATIONS TO BE USED WITH EITHER WORKING STRESS OR ULTIMATE STRENGTH DESIGN METHODS. WIND LOAD CASES ARE GIVEN FOR EACH PRIMARY WIND DIRECTION.
- FOR ASCE7-10 AND LATER BASED BUILDING CODES, THE UNFACTORED LOAD CASE REACTIONS DUE TO WIND ARE GENERATED USING THE ULTIMATE DESIGN WIND SPEED ( $V_{ult}$ ).
- POSITIVE (+) REACTIONS ARE AS SHOWN ABOVE. FOUNDATION LOADS ARE IN OPPOSITE DIRECTIONS.
- BRACING REACTIONS ARE IN THE PLANE OF THE BRACE WITH THE HORIZONTAL REACTION (H) ACTING AWAY FROM THE BRACED BAY AND THE VERTICAL REACTION (V) ACTING DOWNWARD.

#### \*\*\*\*\* RIGID FRAME LOAD CASE ABBREVIATIONS: \*\*\*\*\*

Wind\_L1/Wind\_R1: LATERAL WIND FROM THE LEFT/RIGHT, CASE 1  
 Wind\_L2/Wind\_R2: LATERAL WIND FROM THE LEFT/RIGHT, CASE 2  
 Wind\_Ln1/Wind\_Ln2: LONGITUDINAL WIND, CASE 1/2  
 Seismic\_L/Seismic\_R: LATERAL SEISMIC LOAD FROM LEFT/RIGHT  
 L\_WIND\_L1/L\_WIND\_R1: LONGITUDINAL WIND EDGE ZONES  
 F1UNB\_SL / F2UNB\_SL: UNBALANCED ROOF SNOW WITH WIND FROM LEFT/RIGHT  
 F3PAT\_LL #/F3PAT\_SL #: PARTIAL LIVE/SNOW LOADING FOR CONTINUOUS BEAM SYSTEMS

#### \*\*\*\*\* ENDWALL COLUMN LOAD CASE ABBREVIATIONS: \*\*\*\*\*

Collat: COLLATERAL LOAD  
 Rafter Wind\_L/Rafter Wind\_R: LATERAL WIND FROM THE LEFT/RIGHT  
 Brace Wind\_L/Brace Wind\_R: LATERAL WIND FROM THE LEFT/RIGHT  
 Wind\_P/Wind\_S: LONGITUDINAL WIND PRESSURE/SUCTION ON COLUMNS  
 Wind\_Ln: LONGITUDINAL WIND SUCTION ON ROOF  
 Seis\_L/Seis\_R: LATERAL SEISMIC LOAD FROM LEFT/RIGHT  
 E1UNB\_SL / E2UNB\_SL: UNBALANCED ROOF SNOW WITH WIND FROM LEFT/RIGHT  
 E3PAT\_LL #/E3PAT\_SL #: PARTIAL LIVE/SNOW LOADING FOR CONTINUOUS BEAM SYSTEMS

#### RIGID FRAME: BASIC COLUMN REACTIONS (k)

| Frame Line | Column Line | Dead |      | Collateral |      | Live |      | Snow |      | Wind_Left1 |      | Wind_Right1 |      |
|------------|-------------|------|------|------------|------|------|------|------|------|------------|------|-------------|------|
| 2*         | A           | Horz | Vert | Horz       | Vert | Horz | Vert | Horz | Vert | Horz       | Vert | Horz        | Vert |
| 2*         | E           | 0.9  | 2.4  | 0.7        | 1.6  | 2.6  | 6.3  | 1.8  | 4.4  | -6.3       | -9.0 | 2.1         | -4.6 |
|            |             | -0.9 | 2.4  | -0.7       | 1.6  | -2.6 | 6.3  | -1.8 | 4.4  | -2.1       | -4.6 | 6.3         | -9.0 |

| Frame Line | Column Line | Wind_Left2 |      | Wind_Right2 |      | Wind_Long1 |      | Wind_Long2 |      | Seismic_Left |      | Seismic_Right |      |
|------------|-------------|------------|------|-------------|------|------------|------|------------|------|--------------|------|---------------|------|
| 2*         | A           | Horz       | Vert | Horz        | Vert | Horz       | Vert | Horz       | Vert | Horz         | Vert | Horz          | Vert |
| 2*         | E           | -6.6       | -5.6 | 1.8         | -1.3 | -0.2       | -7.0 | -0.9       | -6.0 | -0.6         | -0.4 | 0.6           | -0.4 |
|            |             | -1.8       | -1.3 | 6.6         | -5.6 | 0.9        | -6.0 | 0.2        | -7.0 | -0.6         | 0.4  | 0.6           | -0.4 |

| Frame Line | Column Line | MIN_SNOW |      | F1UNB_SL_L |      | F1UNB_SL_R |      |
|------------|-------------|----------|------|------------|------|------------|------|
| 2*         | A           | Horz     | Vert | Horz       | Vert | Horz       | Vert |
| 2*         | E           | 2.6      | 6.3  | 1.7        | 4.5  | 1.7        | 2.7  |
|            |             | -2.6     | 6.3  | -1.7       | 2.7  | -1.7       | 4.5  |

|    |              |   |   |
|----|--------------|---|---|
| 2* | Frame lines: | 2 | 3 |
|----|--------------|---|---|

#### ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

| Frm Line | Col Line | Dead | Collat | Live | Snow | Wind Left1 | Wind Right1 | Wind Left2 | Wind Right2 | Wind Press | Wind Suct | Wind Long1 | Wind Long2 |
|----------|----------|------|--------|------|------|------------|-------------|------------|-------------|------------|-----------|------------|------------|
| 1        | A        | 0.6  | 0.2    | 1.3  | 0.6  | -1.5       | -0.9        | -0.8       | -0.3        | -1.3       | 1.5       | -1.7       | -1.3       |
| 1        | B        | 1.4  | 0.6    | 4.0  | 1.7  | -3.8       | -2.6        | -2.9       | -2.6        | 2.9        | -3.7      | -1.8       | -1.8       |
| 1        | D        | 1.4  | 0.6    | 4.0  | 1.7  | -2.6       | -3.8        | -1.5       | -2.9        | -2.6       | 2.9       | -1.8       | -1.8       |
| 1        | E        | 0.6  | 0.2    | 1.3  | 0.6  | -0.9       | -1.5        | -0.3       | -0.8        | -1.3       | 1.5       | -1.7       | -1.3       |

| Frm Line | Col Line | Seis Left | Seis Right | Seis Long | MIN_SNOW | E1UNB_SL_L | E1UNB_SL_R |
|----------|----------|-----------|------------|-----------|----------|------------|------------|
| 1        | A        | 0.0       | 0.1        | 0.0       | 0.0      | 0.8        | 0.0        |
| 1        | B        | 0.0       | -0.1       | 0.0       | 0.0      | 2.4        | 0.0        |
| 1        | D        | -0.1      | 0.0        | 0.0       | 0.0      | 2.4        | 0.0        |
| 1        | E        | 0.1       | 0.0        | 0.0       | 0.0      | 0.8        | 0.0        |

| Frm Line | Col Line | Dead | Collat | Live | Snow | Wind Left1 | Wind Right1 | Wind Left2 | Wind Right2 | Wind Press | Wind Suct | Wind Long1 | Wind Long2 |
|----------|----------|------|--------|------|------|------------|-------------|------------|-------------|------------|-----------|------------|------------|
| 4        | A        | 0.7  | 0.3    | 1.6  | 0.7  | -1.6       | -1.0        | -0.8       | -0.3        | -1.2       | 1.4       | -1.9       | -1.3       |
| 4        | D        | 1.3  | 0.6    | 3.7  | 1.6  | -3.8       | -2.5        | -2.9       | -1.5        | -2.6       | 2.9       | -3.5       | -1.8       |
| 4        | B        | 1.3  | 0.6    | 3.7  | 1.6  | -1.9       | -3.8        | -1.0       | -2.9        | -2.6       | 2.9       | -1.8       | -3.3       |
| 4        | A        | 0.7  | 0.3    | 1.6  | 0.7  | -1.6       | -1.5        | -0.8       | -1.2        | -0.8       | -1.2      | -1.3       | -2.0       |

| Frm Line | Col Line | Seis Left | Seis Right | Seis Long | MIN_SNOW | E2UNB_SL_L | E2UNB_SL_R |
|----------|----------|-----------|------------|-----------|----------|------------|------------|
| 4        | E        | 0.0       | 0.1        | 0.0       | 0.0      | 1.0        | 0.0        |
| 4        | D        | 0.0       | -0.1       | 0.0       | 0.0      | 2.2        | 0.0        |
| 4        | B        | 0.0       | 0.0        | 0.0       | 0.0      | 2.2        | 0.0        |
| 4        | A        | 0.0       | 0.0        | 0.0       | 0.0      | 1.0        | 0.0        |

#### BUILDING BRACING REACTIONS

| Wall Loc | Col Line | ± Reactions (k) | Panel Shear (b/f) | Note |
|----------|----------|-----------------|-------------------|------|
| L_EW     | 1        |                 |                   | (1)  |
| F_SW     | E        | 2.3             | 4.0               | 2.8  |
| R_EW     | A        | 1.9             | 2.1               | 0.5  |
| B_SW     | A        | 3.2             | 4.0               | 2.8  |

(1) Bracing in roof to rigid frame

Reactions for seismic represent shear force, Eh  
 Reaction values shown are unfactored

#### ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES

| Frm Line | Col Line | Anc. Bolt Qty | Base Plate (in) | Width | Length | Thick | Elev. (in) |
|----------|----------|---------------|-----------------|-------|--------|-------|------------|
| 1        | A        | 4             | 0.750           | 8.000 | 8.500  | 0.375 | 0.0        |
| 1        | B        | 4             | 0.750           | 8.000 | 8.500  | 0.375 | 0.0        |
| 1        | D        | 4             | 0.750           | 8.000 | 8.500  | 0.375 | 0.0        |
| 1        | E        | 4             | 0.750           | 8.000 | 8.500  | 0.375 | 0.0        |
| 4        | E        | 4             | 0.750           | 8.000 | 8.500  | 0.375 | 0.0        |
| 4        | D        | 4             | 0.750           | 8.000 | 8.500  | 0.375 | 0.0        |
| 4        | B        | 4             | 0.750           | 8.000 | 8.500  | 0.375 | 0.0        |
| 4        | A        | 4             | 0.750           | 8.000 | 8.500  | 0.375 | 0.0        |

DATE: 11/04/2025

BY: MBS

CHECKED: MBS

PROJECT: 354 Pointer Creek Dr Angier, NC 27501

CUSTOMER: Harold Turner Builders

LOCATION: Jacksonville, NC 28540

PROJECT NAME: REACTIONS

PROJECT NUMBER: A25B0779A

SCALE: R1 of 1

PROJECT NAME: 354 Pointer Creek Dr Angier, NC 27501

CUSTOMER: Harold Turner Builders

LOCATION: Jacksonville, NC 28540

PROJECT NUMBER: A25B0779A

SCALE: R1 of 1

SEAL

D58368

ENGINEER

CHRISTOPHER E. WILSON

