

2018 APPENDIX B BUILDING CODE SUMMARY

Name of Project: Campbell University Baseball Open Shelter
Address: Buies Creek, North Carolina
Proposed Use: Baseball Practice Open Shelter
Owner or Authorized Agent: Michael Weaver

Table with columns: DESIGNER FIRM, NAME, LICENSE #, TELEPHONE #, E-MAIL. Includes Smith Engineering & Design, Joe T. Smith, Jr., 24916, (919)-736-2141.

2018 NC BUILDING CODE: [ ] New Construction [ ] Shell Core [ ] 1st Time Interior Completion (Partial)
2018 NC EXISTING CODE: [ ] Prescriptive [ ] Alteration Level I [ ] Historic Property

BUILDING DATA
Construction Type: [ ] I-A [ ] II-A [ ] III-A [ ] IV [ ] V-A
Sprinklers: [ ] NO [ ] Partial [ ] NFPA 13 [ ] NFPA 13R [ ] NFPA 13D

GROSS BUILDING AREA TABLE
Table with columns: FLOOR, EXISTING (SQ. FT.), NEW (SQ. FT.), SUB-TOTAL. Shows 3rd Floor, 2nd Floor, Mezzanine, 1st Floor, Basement, and TOTAL.

ALLOWABLE AREA
Primary Occupancy: [ ] A-1 [ ] A-2 [ ] A-3 [ ] A-4 [ ] A-5
Factory: [ ] F-1 Moderate [ ] F-2 Low
Residential: [ ] R-1 [ ] R-2 [ ] R-3 [ ] R-4

Accessory Occupancy Classification(s):
Incidental Uses: (Table 509)
Special Uses: (Chapter 4 - List Code Sections)

Actual Area of Occupancy A / Allowable Area of Occupancy A + Actual Area of Occupancy B / Allowable Area of Occupancy B = <= 1.0

Table with columns: STORY NO., DESCRIPTION AND USE, (A) BLDG AREA PER STORY, (B) TABLE 506.2, (C) AREA FOR FRONTAGE INCREASE, (D) ALLOWABLE AREA PER STORY OR UNLIMITED. Shows story 1 with area 6,400 and 9,500.

\* Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = (P)
b. Total Building Perimeter = (P)
c. Ratio (F/P) = (F/P)
d. W = Minimum width of public way = (W)

ALLOWABLE HEIGHT
Table with columns: BUILDING HEIGHT IN FEET (Table 504.3), ALLOWABLE, SHOWN ON PLANS, CODE REFERENCE. Shows 55 feet allowable and 18'-4" shown on plans.

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS
Table with columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE, RATING, PROVIDED, DETAIL #, DESIGN #, DESIGN #, DESIGN #.

PERCENTAGE OF WALL OPENING CALCULATIONS
Table with columns: FIRE SEPARATION DISTANCE, DEGREE OF OPENINGS PROTECTION, ALLOWABLE AREA (%), ACTUAL SHOWN ON PLANS (%).

LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: [ ] No [ ] Yes
Exit Signs: [ ] No [ ] Yes
Fire Alarm: [ ] No [ ] Yes [ ] Partial

LIFE SAFETY PLAN REQUIREMENTS
Life Safety Plan Sheet #: N/A (Open Shelter)
[ ] Fire and/or smoke rated wall locations (Chapter 7)
[ ] Assumed and real property line locations

ACCESSIBLE DWELLING UNITS (SECTION 1107)
Table with columns: TOTAL UNITS, ACCESSIBLE UNITS REQUIRED, ACCESSIBLE UNITS PROVIDED, TYPE A UNITS REQUIRED, TYPE A UNITS PROVIDED, TYPE B UNITS REQUIRED, TYPE B UNITS PROVIDED, TOTAL ACCESSIBLE UNITS PROVIDED.

ACCESSIBLE PARKING (SECTION 1106)
Table with columns: LOT OR PARKING AREA, TOTAL # PARKING SPACES, # ACCESSIBLE SPACES PROVIDED, TOTAL # ACCESSIBLE SPACES PROVIDED.

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)
Table with columns: USE, WATER CLOSETS, URINALS, LAVATORIES, SHOWERS & TUBS, DRINKING FOUNTAINS.

SPECIAL APPROVALS
Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPL, DHS, ICC, etc., describe below)

DESIGN LOADS:
Importance Snow (I\_s) 1.0
Seismic (I\_s) 1.0
Live Loads: Roof 20 PSF, Mezzanine N/A, Floor 100 PSF

SEISMIC CATEGORY [ ] A [ ] B [ ] C [ ] D
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) [ ] I [ ] II [ ] III [ ] IV

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided.

Existing building envelope complies with code: [ ] (If checked, the remainder of this section is not applicable.)
Exempt Building: [ ] Provide code or statutory reference. Thermal envelope elements do not apply. This structure is on open shelter.

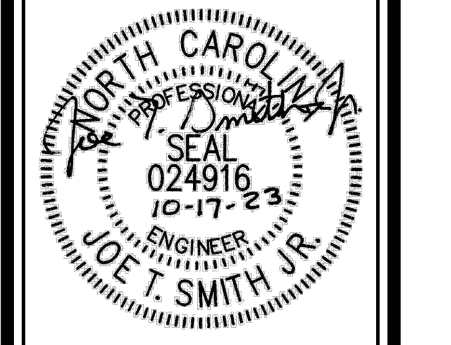
THERMAL ENVELOPE:
Roof/Ceiling Assembly (each assembly)
Description of Assembly N/A
U-value of Total Assembly N/A

Floors over unconditioned space (each assembly)
Description of Assembly N/A
U-value of Total Assembly N/A

INDEX TO DRAWINGS
COVER / CODE SUMMARY
T-1 COVER SHEET
STRUCTURAL
S-1 FOUNDATION PLAN & NOTES
S-2 FOUNDATION DETAILS
ELECTRICAL
E-1 ELECTRICAL LIGHTING PLAN

NOTICE TO CONTRACTOR
All construction shall comply with applicable NC Building Code and be subject to field inspection and verification.
Reviewed for Code Compliance
11/06/2023

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REVISIONS
Table with columns: REV #, DATE, DESCRIPTION.

New Facility for:
Campbell University
Baseball Open Shelter
Buies Creek, NC

DATE: 17 October 2023
DRAWN BY: T.B.
SCALE: NO SCALE
T-1

**STRUCTURAL NOTES**

**GENERAL**

1. THESE DRAWINGS ARE TO BE COORDINATED WITH THE PRE-ENGINEERED METAL BUILDING PLANS.
2. THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE NC BUILDING CODE AND ANY LOCAL LAWS WHERE THE STRUCTURE IS TO BE CONSTRUCTED.

**MISCELLANEOUS**

1. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING, SHORING, AND GUYING OF FRAMING AND WALLS AGAINST WIND, CONSTRUCTION LOADS, AND OTHER TEMPORARY FORCES UNTIL SUCH PROTECTION IS NO LONGER REQUIRED FOR THE SAFE SUPPORT OF THE FRAMING.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE DIMENSIONS OF THE STRUCTURAL DRAWINGS AND ADVISING THE ENGINEER OF ANY DIFFERENCES IN DIMENSIONS BETWEEN THE METAL BUILDING PLANS AND SECTIONS PRIOR TO COMMENCING CONSTRUCTION.
3. CONSTRUCTION SAFETY: THESE STRUCTURAL DRAWINGS DO NOT CONTAIN NECESSARY COMPONENTS FOR SAFETY DURING CONSTRUCTION.

**FOUNDATIONS**

1. THE STRUCTURAL ENGINEER HAS NOT PERFORMED A SUBSURFACE INVESTIGATION. THE FOUNDATION IS BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 2000 PSF NET BEARING. VERIFICATION OF THIS ASSUMED VALUE IS THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR. SHOULD ANY ADVERSE SOIL CONDITION BE ENCOUNTERED, THE STRUCTURAL ENGINEER MUST BE CONTACTED BEFORE PROCEEDING.
2. ANY FILL SHALL BE PLACED UNDER THE DIRECTION OR RECOMMENDATION OF A LICENSED PROFESSIONAL ENGINEER. THE RESULTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT MAXIMUM DRY DENSITY.

**CONCRETE**

1. REINFORCED CONCRETE WORK SHALL COMPLY WITH BOTH "SPECIFICATIONS FOR STRUCTURAL BUILDINGS" ACI 301 AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 318.
2. CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304R.
3. DURING HOT WEATHER THE CONTROL OF CONCRETE PLACEMENT, PROTECTION AND CURING SHALL COMPLY WITH ACI 305R.
4. WHEN THE MEAN DAILY TEMPERATURE IS BELOW 40 DEGREES F THE CONTROL OF PLACEMENT, PROTECTION AND CURING SHALL COMPLY WITH ACI 306R.
5. CONCRETE SHALL HAVE NORMAL WEIGHT AGGREGATE AND A MINIMUM COMPRESSIVE STRENGTH (F<sub>c</sub>) AT 28 DAYS AS LISTED BELOW.
 

5.1 FOOTINGS	3000 PSI
5.2 SLABS-ON-GRADE	3000 PSI
6. ENTRAINED AIR MUST BE USED IN ALL CONCRETE THAT WILL BE EXPOSED TO FREEZING AND THAWING AND DEICING CHEMICALS. AMOUNT OF AIR ENTRAINMENT (PERCENT) SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE WITH A RANGE OF -1 TO +2 PERCENTAGE POINTS OF THE TARGET VALUE:
 

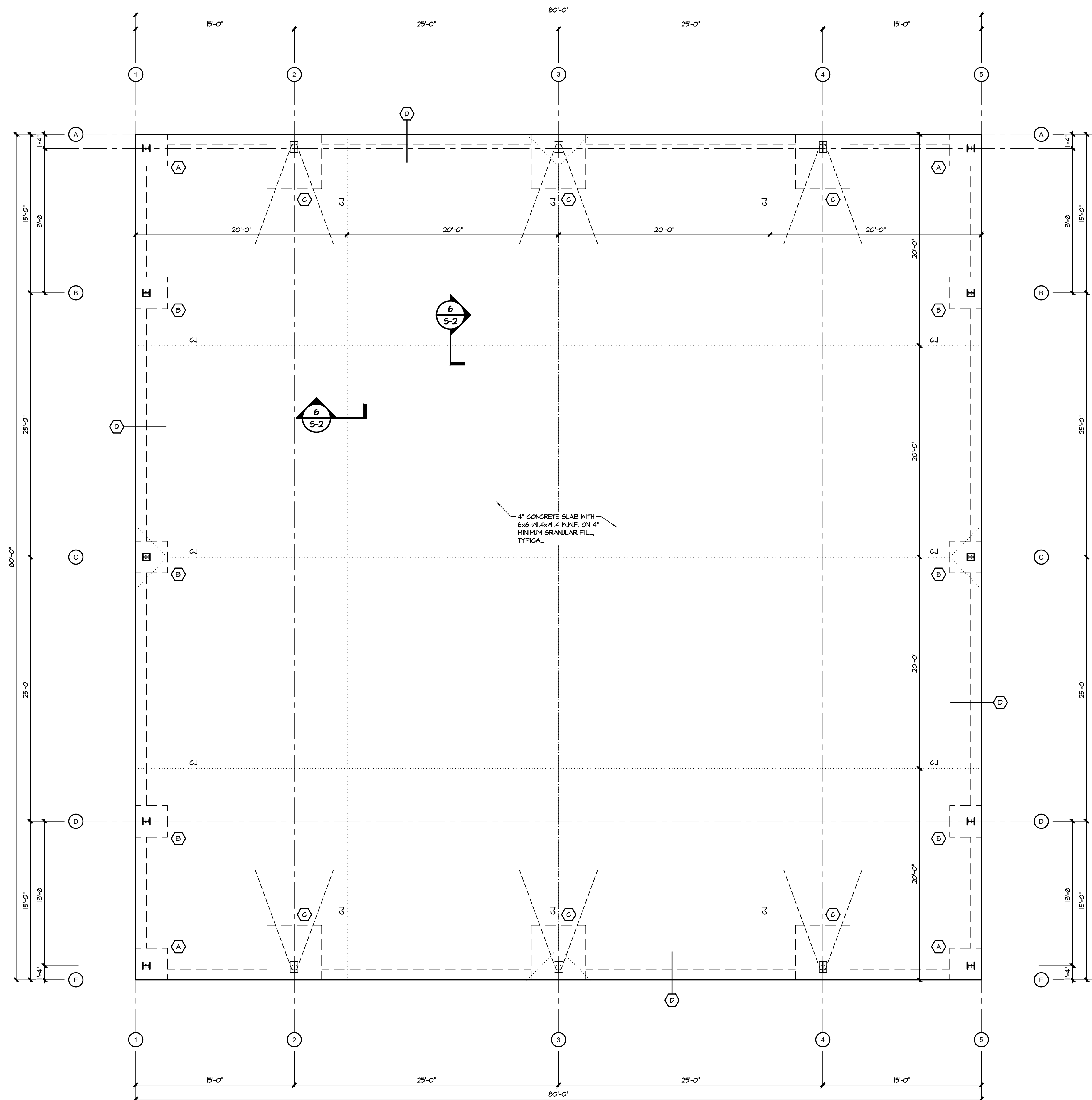
6.1 FOOTINGS	5%
6.2 INTERIOR SLABS	0%, SEE NOTE BELOW
6.3 EXTERIOR SLABS	5%

NOTE: IT IS RECOMMENDED THAT INTERIOR SLABS TO BE GIVEN A SMOOTH, DENSE, HARD-TROWELED FINISH NOT TO CONTAIN ENTRAINED AIR SINCE BLISTERING OR DELAMINATION MAY OCCUR. IF SLAB WILL BE EXPOSED TO DEICING OR OTHER AGGRESSIVE CHEMICALS, CONTACT STRUCTURAL ENGINEER FOR PROPER AIR ENTRAINMENT REQUIREMENTS.

7. CONCRETE SLABS ON GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302.1R-96 "GUIDE FOR CONCRETE SLAB AND SLAB CONSTRUCTION".
8. CONTROL JOINTS SHALL BE SPACED IN SLABS ON GRADE AT A MAXIMUM OF 15'-0" O.C. UNLESS OTHERWISE NOTED.

**REINFORCING STEEL**

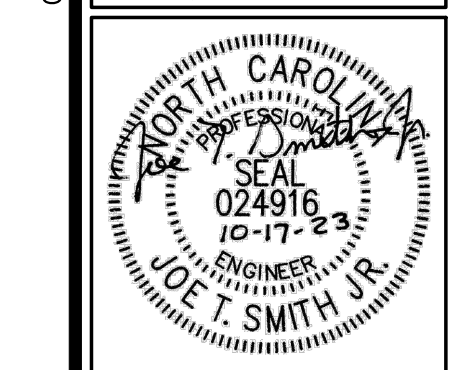
1. REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A185. WELDABLE REINFORCING BARS SHALL COMPLY WITH ASTM A706, GRADE 60.
2. CLEAR CONCRETE COVER ON REINFORCING STEEL: BOTTOM OF FOOTINGS = 3", SIDE AND TOP SURFACE OF FOOTINGS = 2", BOTTOM OF SLAB ON GRADE = 2 1/2", WALL SURFACE = 2", TOP OR BOTTOM SURFACE OF FLOOR SLABS = 3/4".
3. PROVIDE CLASS 3 BAR AND MESH SUPPORTS.
4. DETAILING, FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 315 (LATEST EDITION) MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES.
5. HORIZONTAL FOOTING SHALL BE CONTINUOUS AND SHALL HAVE 90° BENDS OR CORNER BARS SHALL BE INSTALLED. THE CORNER BAR SHALL HAVE THE SAME SIZE AND SPACING AS THE HORIZONTAL REINFORCEMENT WITH A CLASS B TENSION SPLICE.
6. LAP REINFORCEMENT AS REQUIRED A MINIMUM OF 40 BAR DIAMETERS FOR TENSION OR COMPRESSION UNLESS NOTED OTHERWISE. SPLICES IN MASONRY SHALL BE A MINIMUM OF 48 BAR DIAMETERS.



**FOUNDATION PLAN**

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

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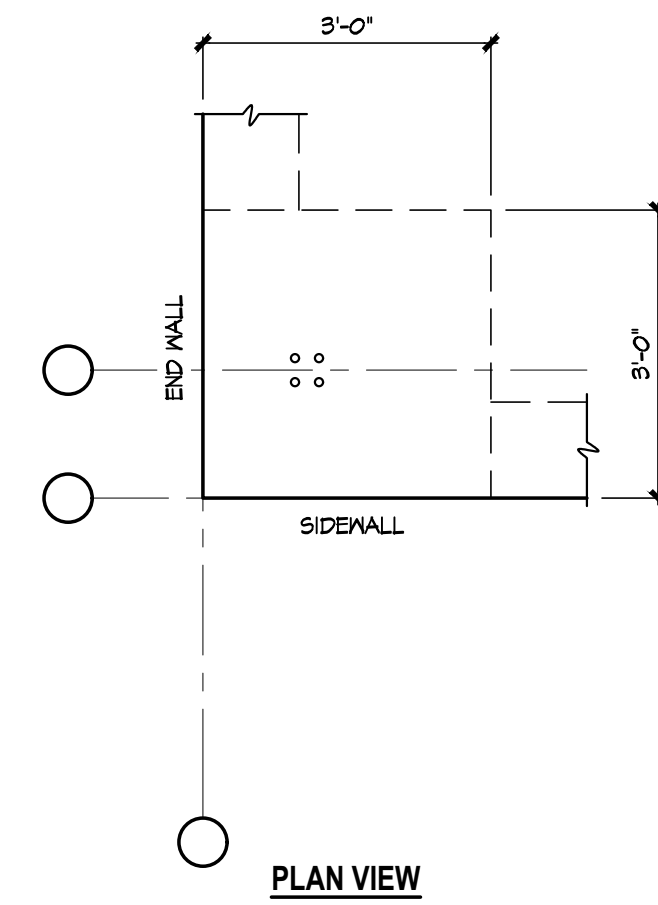
REV.	DATE	DESCRIPTION

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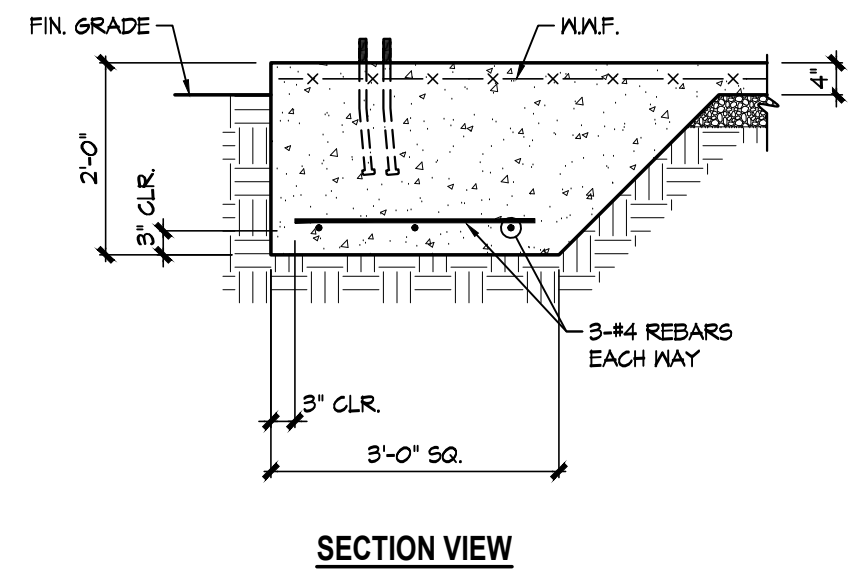
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 Buies Creek, NC

DATE: 17 October 2023  
 DRAWN BY: T.B.  
 SCALE: 3/16" = 1'-0"

**S-1**

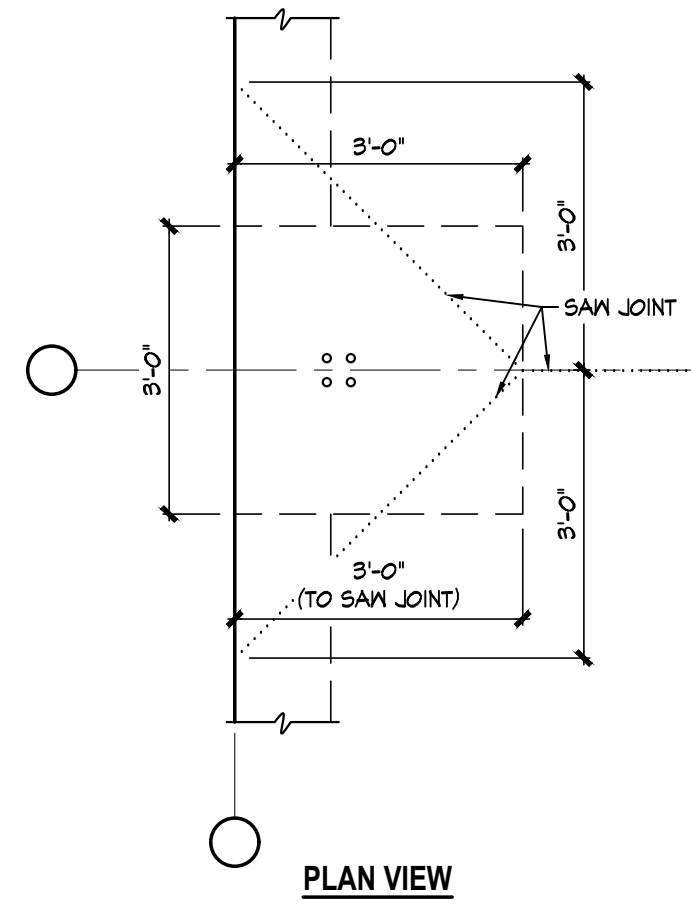


PLAN VIEW

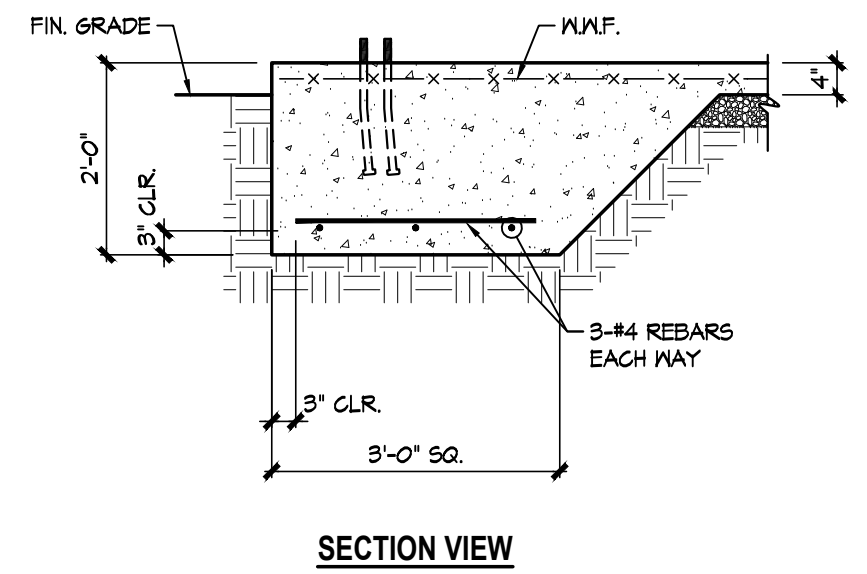


SECTION VIEW

1 COLUMN FOOTING "A" SCALE: 1/2" = 1'-0"

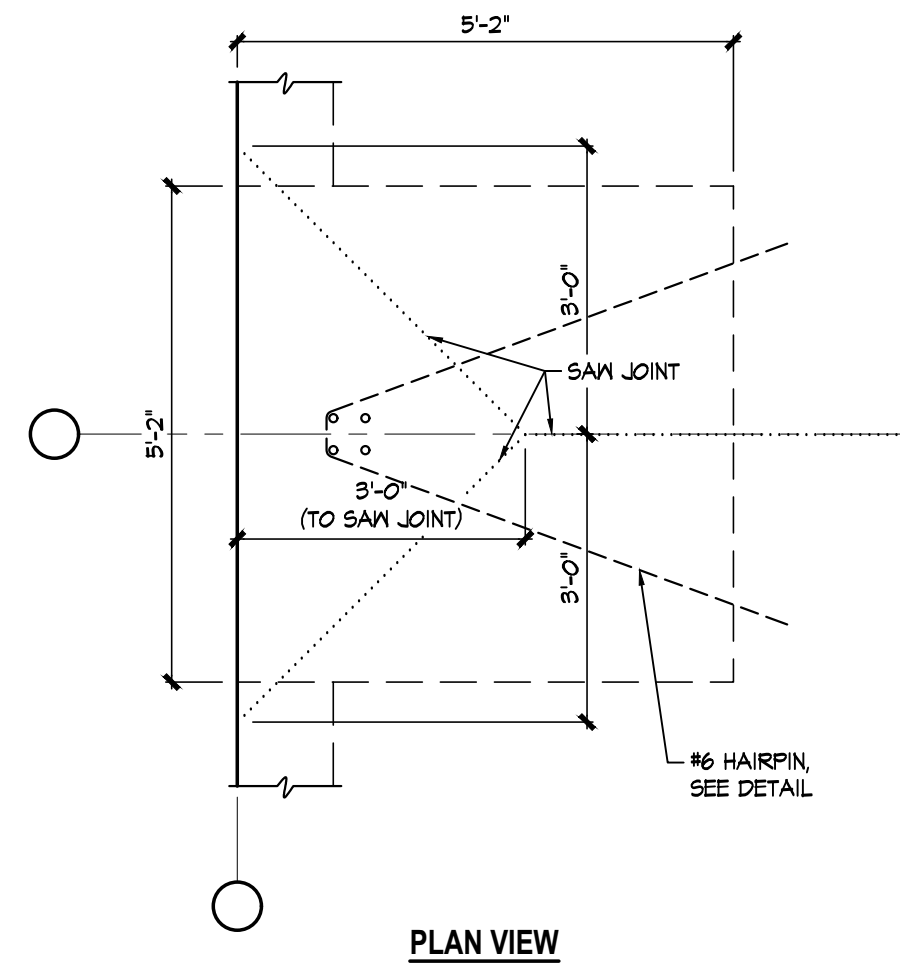


PLAN VIEW

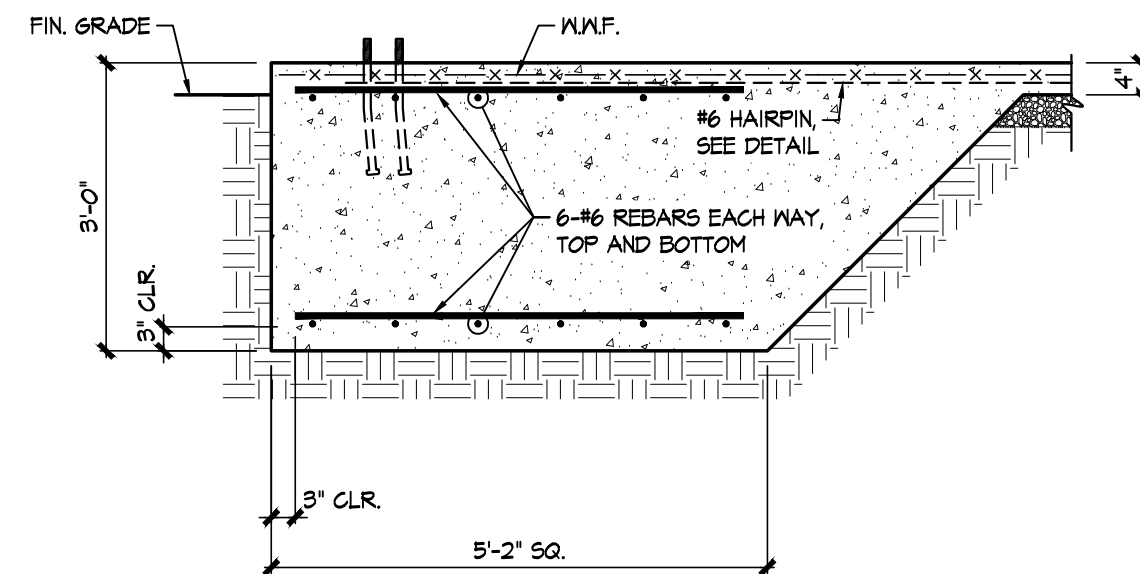


SECTION VIEW

2 COLUMN FOOTING "B" SCALE: 1/2" = 1'-0"



PLAN VIEW

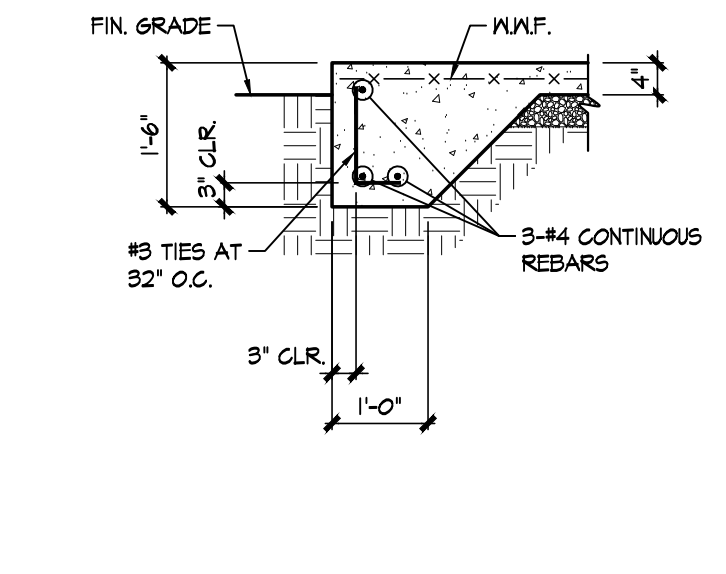


SECTION VIEW

3 COLUMN FOOTING "C" SCALE: 1/2" = 1'-0"



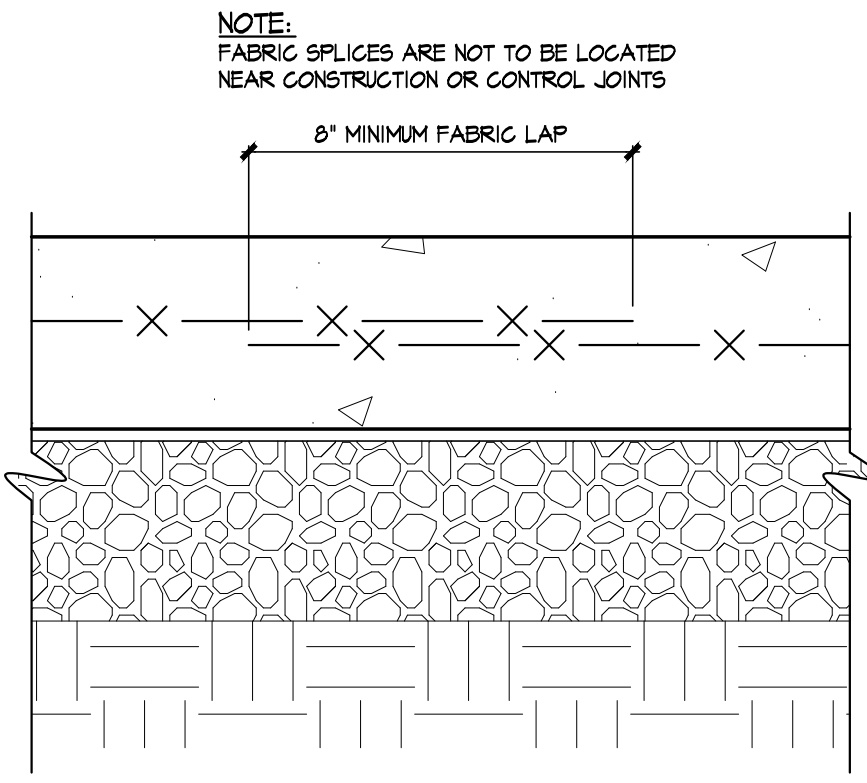
PLAN VIEW



SECTION VIEW

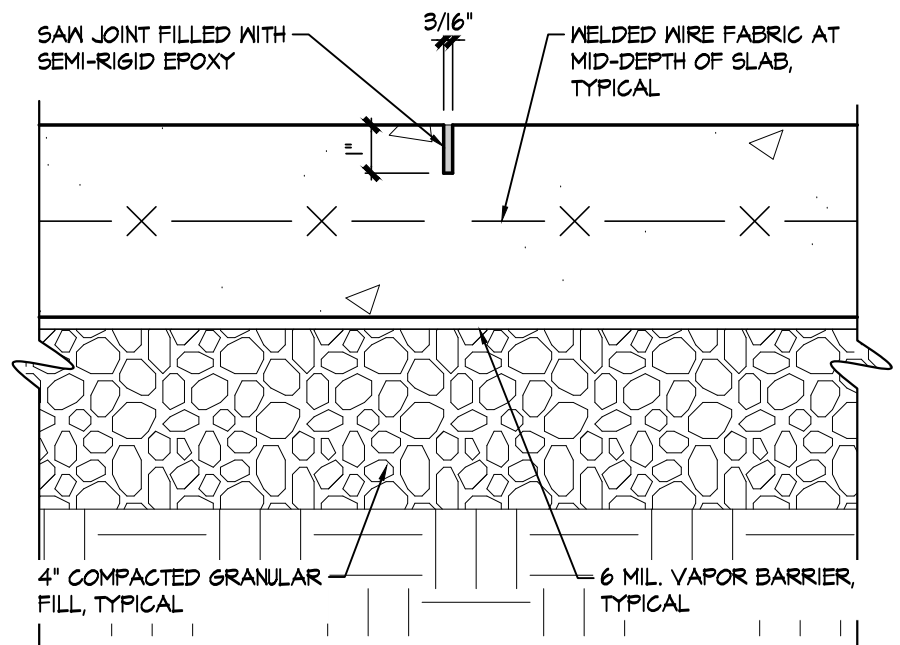
4 PERIMETER FOOTING "D" SCALE: 1/2" = 1'-0"

TYPICAL SLAB EDGE FOOTING



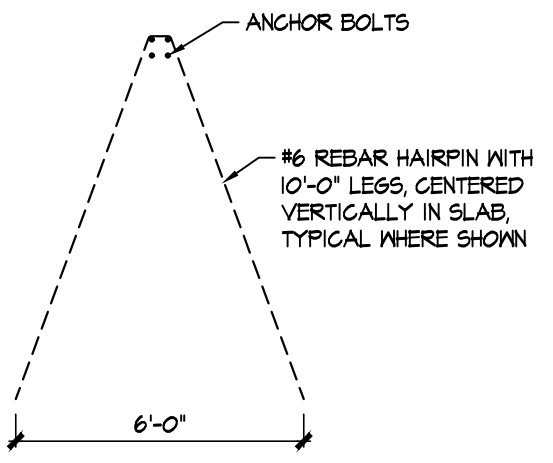
5 DETAIL SCALE: 3" = 1'-0"

TYPICAL WIRE FABRIC SPLICE



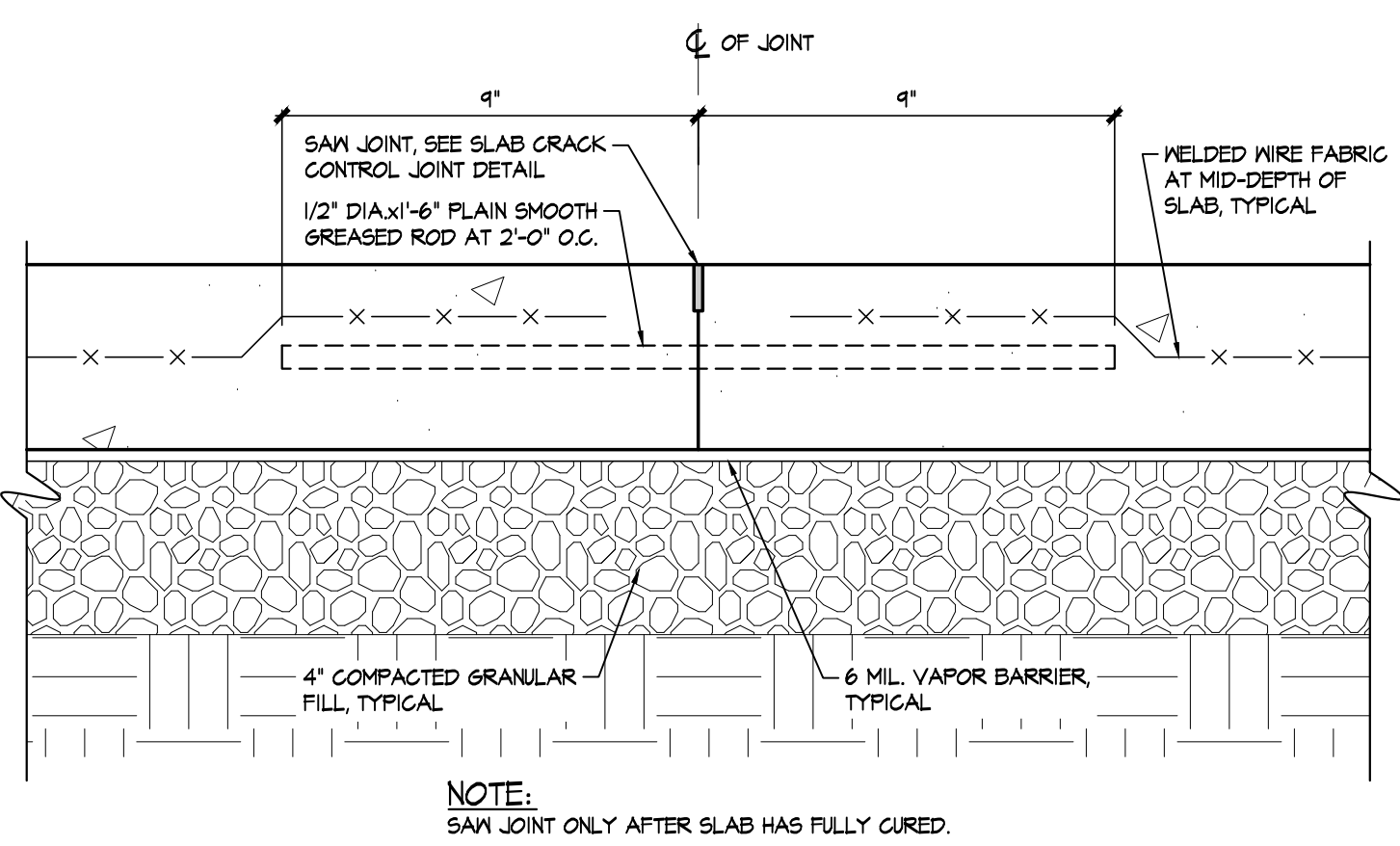
6 DETAIL SCALE: 3" = 1'-0"

TYPICAL SLAB CRACK CONTROL JOINT



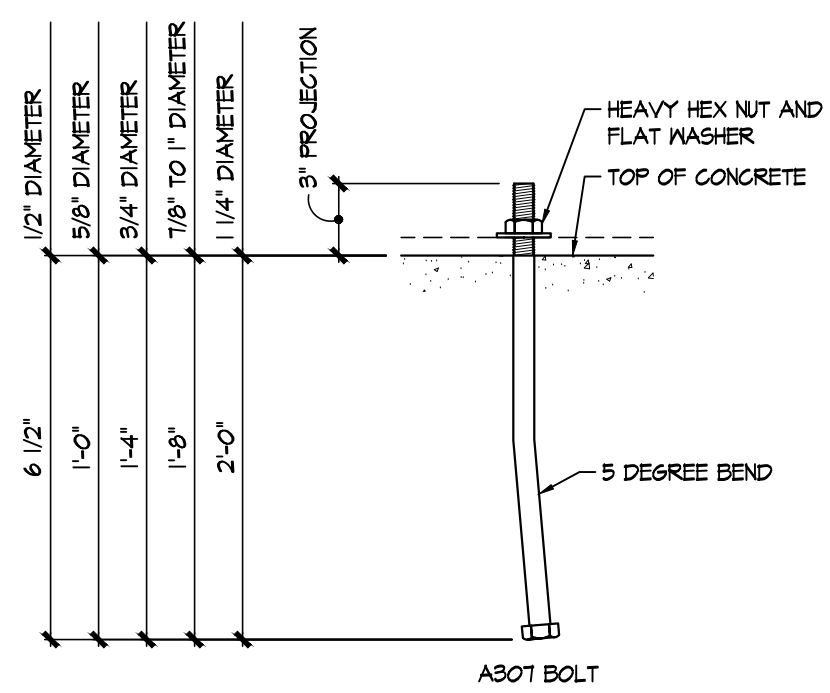
7 DETAIL SCALE: 1/4" = 1'-0"

REBAR HAIRPIN CONSTRUCTION



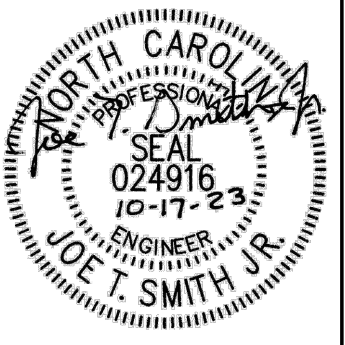
8 DETAIL SCALE: 3" = 1'-0"

TYPICAL SLAB CONSTRUCTION JOINT



9 DETAIL SCALE: 1 1/2" = 1'-0"

ANCHOR BOLT INSTALLATION



REV.	DATE	DESCRIPTION

New Facility for:  
**Campbell University**  
 Baseball Open Shelter  
 Buies Creek, NC

LIGHT FIXTURE SCHEDULE										
MARK	DESCRIPTION	LAMP			BALLAST		FIXTURE INPUT WATTS	VOLTS	LUMENS	NOTES
		TYPE	NO.	WATTS	TYPE	NO.				
H1	HIGH BAY LED	LED	-	112	-	-	112	120	12000	

- NOTES:
- PROVIDE ALL FIXTURES WITH LAMPS OF MODERATE TONE (3500K) AND GOOD CRI (COLOR RENDERING INDEX).
  - PROVIDE FIXTURES BY LITHONIA, COLUMBIA, HUBBLE, OR EQUAL PRODUCT.

ELECTRICAL LEGEND		
SYM.	DESCRIPTION	REMARKS
Ⓜ	JUNCTION BOX	DOUBLE GANG UNO
Ⓛ	NON-FUSED DISCONNECT	-
Ⓞ	OCCUPANCY SENSOR	-
Ⓢ	SWITCH	MOUNT 48" TOD AFF
Ⓢ <sub>3</sub>	3 WAY SWITCH	MOUNT 48" TOD AFF
Ⓡ	RECEPTACLE	MOUNT 16" BOD AFF
Ⓡ <sub>GFI</sub>	GROUND FAULT RECEPTACLE	MOUNT 6" ABV. COUNTER
Ⓡ <sub>WP GFI</sub>	GROUND FAULT, WEATHERPROOF RECEPT.	MOUNT 24" BOD AFG
Ⓢ	240V RECEPTACLE	-
Ⓢ	DOUBLE DUPLEX RECEPTACLE	-
Ⓢ	CIRCUIT IDENTIFIER	-
Ⓢ	DATA OUTLET	NUM. OF PORTS AS INDICATED

NOTES:

- STANDARD MOUNTING HEIGHTS OF DEVICES SHALL BE AS LISTED IN LEGEND. SPECIFIC MOUNTING HEIGHT OF A DEVICE MAY VARY AS NOTED ON PLANS.
- E.C. SHALL COORDINATE COLOR SELECTION OF DEVICES AND COVERPLATES WITH ENGINEER, OWNER AND/OR G.C.
- PROVIDE EQUIPMENT SHOWN BY HUBBELL, PASS & SEYMOUR, COOPER WIRING DEVICES, OR EQUAL PRODUCT.
- OPERATING DEVICES AND OPERABLE PARTS OF OPERATING DEVICES SUCH AS LIGHT SWITCHES, RECEPTACLES, THERMOSTATS, ALARMS, ETC., SHALL BE LOCATED WITHIN REACH RANGES AS SPECIFIED PER ANSI A117.1-2009.

ABBREVIATIONS:

G.C.	GENERAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
UNO	UNLESS NOTED OTHERWISE
Ⓢ	CENTERLINE OF DEVICE
BOD	BOTTOM OF DEVICE
TOD	TOP OF DEVICE

**ELECTRICAL NOTES:**

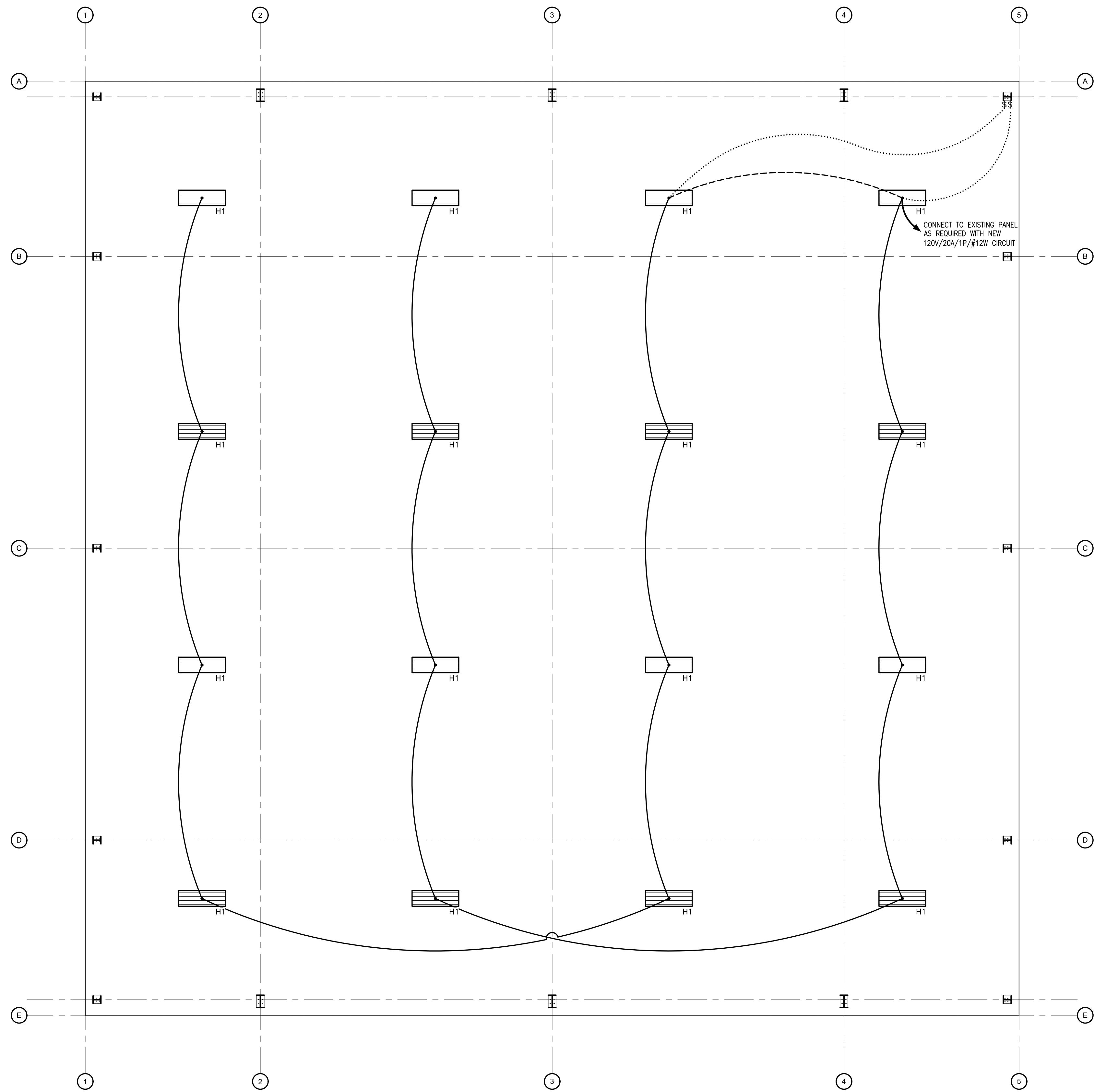
- ELECTRICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT.
- CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF ELECTRICAL INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
- ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC). WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
- PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS, STARTERS, DEVICES AND ELECTRICAL COMPONENTS UNLESS SPECIFICALLY NOTED AS PROVIDED BY OTHERS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LINE AND LOAD SIDE WIRING INCLUDING ALL TERMINATIONS TO EQUIPMENT PROVIDED UNDER OTHER TRADES. POWER WIRING TO CONTROL DEVICES SHALL BE PROVIDED BY E.C..
- ALL WIRING, DEVICES AND OTHER LIKE MATERIALS SHALL BE UL LISTED & LABELED. ALL MATERIALS SHALL MEET THE NEC FOR THE INTENDED USE AND INSTALLED IN ACCORDANCE WITH THE NEC.
- PROVIDE THHN/THWN COPPER WIRE. PROVIDE A MINIMUM WIRE SIZE OF #12. CONDUCTORS AND CONDUIT ON PLANS AND SCHEDULES REFLECT AMPACITIES PER NEC 310-16 75C RATING. CONTRACTOR SHALL VERIFY ALL TERMINATIONS, LUGS, ETC. ARE RATED FOR USE PER NEC 110-4C. OTHERWISE PROVIDE CONDUCTOR AND CONDUIT SIZED PER LOWEST TEMPERATURE RATING OF ANY TERMINATION WITHIN A CIRCUIT. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR ALL CIRCUITS.
- PROVIDE MC CABLE FOR ALL SINGLE PHASE BRANCH CIRCUITS 30 AMPS AND SMALLER.
- PROVIDE TYPE WRITTEN PANEL SCHEDULES IN EACH PANEL INDICATING THE LOAD DESCRIPTION FOR EACH BREAKER. LABEL PANELS ON PANEL FACE WITH PHENOLIC LABELS INDICATING PANEL NUMBER OR LETTER DESIGNATION, VOLTAGE AND PHASE.
- PROVIDE LIGHTING AS SCHEDULED IN THE FIXTURE SCHEDULE OR OTHERWISE NOTED ON PLANS.
- WALL SWITCHES SHALL BE SINGLE POLE, 20 AMP, 120/277V.
- PROVIDE STANDARD SIZE WALL PLATES FOR ALL DEVICES AND BLANK WALL PLATES FOR JUNCTION BOXES. WALL PLATES SHALL BE HIGH IMPACT, SMOOTH NYLON, COLOR TO MATCH DEVICE.
- GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1-YEAR AFTER DATE OF ACCEPTANCE.

**ELECTRICAL SYSTEM AND EQUIPMENT**

METHOD OF COMPLIANCE:  
 PRESCRIPTIVE  PERFORMANCE  TRADE-OFF

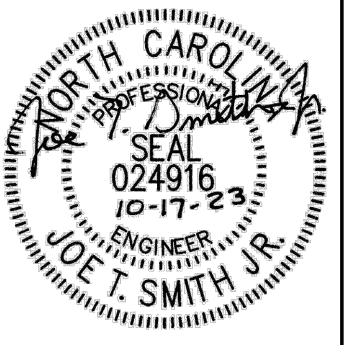
LIGHTING SCHEDULE  
 LAMP TYPE REQUIRED IN FIXTURE \_\_\_\_\_ SEE LIGHTING SCHEDULE ON PLANS  
 NUMBER OF LAMPS IN FIXTURE \_\_\_\_\_  
 BALLAST TYPE USED IN THE FIXTURE \_\_\_\_\_  
 NUMBER OF BALLASTS IN THE FIXTURE \_\_\_\_\_  
 TOTAL WATTAGE PER FIXTURE \_\_\_\_\_

EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS)  
 MOTOR HORSEPOWER \_\_\_\_\_ N/A - NO MOTORS LARGER THAN 1 HP SPECIFIED ON THESE PLANS  
 NUMBER OF PHASES \_\_\_\_\_ OTHER THAN AS LISTED IN MECHANICAL SCHEDULES  
 MINIMUM EFFICIENCY \_\_\_\_\_  
 MOTOR TYPE \_\_\_\_\_  
 # OF POLES \_\_\_\_\_



**ELECTRICAL LIGHTING PLAN**

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



REV.	DATE	DESCRIPTION

**GENERAL NOTES:**

1. MATERIALS	ASTM DESCRIPTION
STRUCTURAL STEEL PLATE	A529 / A572 / A1011
HOT ROLLED MILL SHAPES	A36 / A529 / A500
HHS ROUND	A500
HHS RECTANGULAR	A500
COLD FORM SHAPES	A653 / A1011
ROOF AND WALL SHEETING	A653 / A792
BOLTS	A307 / A325 / A490
CABLE	A475
RODS	A529 / A572

**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 MBMA OR CSA S16 STANDARDS PERTAINING TO PROPER ERECTION. TEMPORARY SUPPORTS SUCH AS GUYS, 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 PARTLY 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 JOIST) 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 APPROVED 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 AC472.

**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 RSCC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS OR FOR PROJECTS IN CANADA, SEE THE CAN/CSA S16 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-PRETENSIONED"), UNLESS REQUIRED OTHERWISE BY LOCAL JURISDICTION OR CONTRACT REQUIREMENTS:

- A) ALL A490 BOLTS SHALL BE "FULLY-PRETENSIONED".
- B) ALL A325 BOLTS IN PRIMARY FRAMING (RIGID FRAMES AND BRACING) MAY BE "SNUG-TIGHT", EXCEPT AS FOLLOWS: "FULLY-PRETENSION" A325 BOLTS IF:
  - a) BUILDING SUPPORTS A CRANE SYSTEM WITH A CAPACITY GREATER THAN 5 TONS.
  - b) 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.
  - c) THE PROJECT SITE IS LOCATED IN A HIGH SEISMIC AREA. FOR IBC-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.
  - d) ANY CONNECTION DESIGNATED IN THESE DRAWINGS AS "A325-SC". "SLIP-CRITICAL (SC)" CONNECTIONS MUST BE FREE OF PAINT, OIL, OR OTHER MATERIALS THAT REDUCE FRICTION AT CONTACT SURFACES. GALVANIZED OR LIGHTLY-RUSTED SURFACES ARE ACCEPTABLE.
- C) IN CANADA, ALL A325 AND A490 BOLTS SHALL BE "FULLY-PRETENSIONED", EXCEPT FOR SECONDARY MEMBERS (PURLINS, GIRTS, OPENING FRAMING, ETC.) AND FLANGE BRACES.

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

**6. GENERAL DESIGN NOTES:**

- 1) 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 S16 "LIMIT STATES DESIGN OF STEEL STRUCTURES", AS REQUIRED BY THE SPECIFIED BUILDING CODE.
- 2) ALL WELDING OF STRUCTURAL STEEL IS BASED ON EITHER AWS D1.1 "STRUCTURAL WELDING CODE - STEEL" OR CAN/CSA W59 "WELDED STEEL CONSTRUCTION (METAL ARC WELDING)", AS REQUIRED BY THE SPECIFIED BUILDING CODE.
- 3) ALL COLD FORMED MEMBERS ARE DESIGNED IN ACCORDANCE WITH ANSI/AISI S100 OR CAN/CSA S136 "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", AS REQUIRED BY THE SPECIFIED BUILDING CODE.
- 4) 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.
- 5) ALL NUCOR BUILDING GROUP FACILITIES ARE IAS 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 A660 AND W47.1 CERTIFIED.
- 6) 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 1926.758 OF THE OSHA SAFETY STANDARDS FOR STEEL ERECTION, DATED JANUARY 18, 2001.
- 7) 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.

**PRIMER COLORS**

PRIMARY PRIMER COLOR: RED SECONDARY PRIMER COLOR: RED

**ROOF SHEETING**

TYPE: LC3 GAUGE: 24 FINISH: Dark Bronze CLIP TYPE: Tall  
 THERMAL BLOCKS: Yes EPS FOAM SPACER: No ROOF LINE TRIM, PAINTED: Dark Bronze  
 YES  NO  DOWNSPOUTS PAINTED: Dark Bronze GUTTERS PAINTED: Dark Bronze  
 YES  NO  INSULATION 5.25 INCH (NOT BY MBS)  
 YES  NO  PIPE JACKS, SIZE: \_\_\_\_\_ QUANTITY: \_\_\_\_\_  
 YES  NO  RIDGE VENTS, 10'-0" LONG X 9" THROAT. QUANTITY: \_\_\_\_\_  
 YES  NO  ROOF FRAMED OPENINGS, SEE ROOF FRAMING PLAN FOR SIZES  
 YES  NO  COMPOSITE DECK, TYPE: \_\_\_\_\_ GAUGE: \_\_\_\_\_ FINISH: \_\_\_\_\_

**WALL SHEETING**

TYPE: APW GAUGE: 26 FINISH: Slate Gray  
 CORNER TRIM, PAINTED: Slate Gray BASE TRIM, PAINTED: Burnished Slate  
 YES  NO  WALKDOORS, QUANTITY: \_\_\_\_\_ PAINTED: \_\_\_\_\_  
 YES  NO  WINDOWS, QUANTITY: \_\_\_\_\_ PAINTED: \_\_\_\_\_  
 YES  NO  INSULATION 4.38 INCH (NOT BY MBS)

**WALL FRAMED OPENINGS**

YES  NO  FRAMED OPENING TRIM, PAINTED: \_\_\_\_\_

**BUILDING OPTIONS**

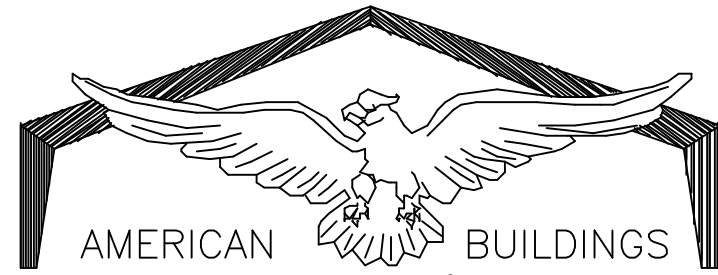
- YES  NO  LINER PANELS  
 FRAMED OPENING TRIM, PAINTED: \_\_\_\_\_  
 WALL: TYPE: \_\_\_\_\_ GAUGE: \_\_\_\_\_ FINISH: \_\_\_\_\_ WALL TRIM, PAINTED: \_\_\_\_\_  
 CEILING: TYPE: \_\_\_\_\_ GAUGE: \_\_\_\_\_ FINISH: \_\_\_\_\_
- YES  NO  TRANSLUCENT PANELS  
 WALL: \_\_\_\_\_  
 ROOF: \_\_\_\_\_  
 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: \_\_\_\_\_  
 BASE TRIM PAINTED: \_\_\_\_\_ 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)

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:**

- A.B. = ANCHOR BOLTS
- BS = BOTH SIDES
- B.U. = BUILT-UP
- DIA = DIAMETER
- FLG = FLANGE
- F.S = FAR SIDE
- GA. = GAUGE
- H.S.B. = HIGH STRENGTH BOLTS
- HT. = HEIGHT
- LLV = LONG LEG VERTICAL
- PEMB = PRE-ENGINEERED METAL BUILDING MANUFACTURER
- ?? = PART MARK TO BE DETERMINED AND WILL BE UPDATED ON CONSTRUCTION DRAWINGS
- MAX = MAXIMUM
- M.B. = MACHINE BOLTS
- MBS = METAL BUILDING SUPPLIER
- TBD = TO BE DETERMINED
- N/A = NOT APPLICABLE
- NIC = NOT IN CONTRACT
- SLV = SHORT LEG VERTICAL
- O.A.L. = OVERALL LENGTH
- O.C. = ON CENTER
- U.N.O. = UNLESS NOTED OTHERWISE
- REQ'D = REQUIRED
- REV. = REVISION
- SIM = SIMILAR
- SL = STEEL LINE
- N.S. = NEAR SIDE
- MIN = MINIMUM
- TYP = TYPICAL
- PL = PLATE

**BUILDING INFORMATION**



AMERICAN BUILDINGS  
 a NUCOR brand



**BUILDING LOADS**

DESIGN CODE: North Carolina (NCBC 2018)  
 ROOF LIVE LOAD: 20.00 PSF RISK CATEGORY: II  
 LIVE LOAD REDUCIBLE Yes  
 GROUND SNOW LOAD: 15.00 PSF SNOW EXP. FACTOR, Ce: 1.20  
 SNOW IMPORTANCE FACTOR, Is: 1.00  
 WIND: 115 / 89 MPH  
 (Vult) / (Vasd)

C & C PRESSURES (PSF): 19 / -26  
 EXPOSURE: B  
 UL 90 NO  
 R-PaneRoof-Const. No.161 ; R-Panel Roof w/ Translucent Panel-Const. No.167  
 SS3 Roof-Const. No.552 ; SS3 Roof w/ Translucent Panel-Const. No.590 ;  
 Composite CFR Roof-Const. No.552A ; LS9 Roof-Const. No.332 .  
 SEISMIC INFORMATION Ss: 0.132 S1: 0.065  
 Design Sds/Sd1: 0.141 / 0.104 Site Class: D  
 Seismic Imp. Factor: 1.00 Seismic Design Category: B  
Analysis Procedure: Equivalent Lateral Force Method  
Long. SFRS: Not Detailed for Seismic  
Lat. SFRS: 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, CEILINGS, 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) Pm IS BASED ON THE MINIMUM ROOF SNOW LOAD CALCULATED PER BUILDING CODE OR THE CONTRACT SPECIFIED SNOW LOAD, WHICHEVER IS GREATER. THIS VALUE, Pm, IS ONLY APPLIED IN COMBINATION WITH THE DEAD AND COLLATERAL LOADS. ROOF SNOW IN OTHER LOADING CONDITIONS IS DETERMINED PER THE SPECIFIED BUILDING CODE.

BUILDING	
ROOF DEAD (PSF):	3.00
ROOF SNOW Pm (PSF):	15.12
PRI. COL. (PSF):	1.00
WIND ENCLOSURE:	Open
SEC. COL. (PSF):	1.00
GCP:	1/2-0.00
SNOW Ct:	1.20
SEISMIC R:	3.00
SNOW Cs:	1.00
SEISMIC Cs:	0.047
ROOF SNOW Ps (PSF):	15.12
BASE SHEAR (KIPS):	2.20

**DRAWING INDEX**

COVERSHEET	C1, C2
ANCHOR BOLT DRAWINGS	F1, F2
COLUMN BASE REACTIONS	R1
STRUCTURAL/SHEETING DRAWINGS	E1 - E7
DETAILS	CED1 - CED10

DATE	ISSUE	ANCHOR RODS	PERMITS	FINALS
07/21/2023				
07/21/2023				
08/12/2023				

Engineering Performed By:  
 Nucor Corporation  
 200 Whetstone Rd.  
 Swansea, SC 29460  
 COA# F-1470

CAMPBELL BASEBALL OPEN SHELTER  
 76 UPCHURCH LANE, BUIES CREEK, NC 27506  
 CUSTOMER NAME  
 SOUTHEASTERN CONSTRUCTION OF BUIES CREEK, LLC  
 BUIES CREEK, NC 27506  
 PROJECT NAME  
 JOB NUMBER  
 A23B0716A  
 SHEET TITLE  
 COVERSHEET

Professional Engineer Seal for Rajesh H. Bhagnari, State of North Carolina, Seal No. 24064.

Small text at the bottom: This seal remains only in the public domain... The drawings and the metal building they represent are the product of the Metal Building Manufacturer... The registered professional engineer whose seal appears on these drawings is employed by the Metal Building Manufacturer and does not serve as or represent the project engineer of record and shall not be construed as such.

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

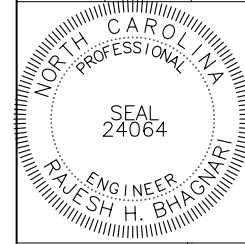
THIS BUILDING SYSTEM DESIGN IS BASED ON UNIFORMLY APPLYING THE CONTRACT-SPECIFIED LIVE LOAD AND ROOF SNOW LOAD. IN ADDITION, THE DESIGN IS BASED ON APPLYING A CODE-DEFINED LIVE LOAD (INCLUDING APPLICABLE REDUCTIONS) AND A CODE-DEFINED SNOW LOAD (BASED ON CONTRACT-SPECIFIED GROUND SNOW) FOR ALL PARTIAL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

BCL4

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

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PROJECT NAME  
**CAMPBELL BASEBALL OPEN SHELTER**  
 76 UPCHURCH LANE, BUIES CREEK, NC 27506

CUSTOMER NAME  
 SOUTHEASTERN CONSTRUCTION OF BUIES CREEK, LLC  
 BUIES CREEK, NC 27506

JOB NUMBER  
**A23B0716A**

SHEET TITLE  
**ADDITIONAL NOTES**

Engineering Performed By:  
 Nucor Corporation  
 200 Whetstone Rd.  
 Swansea, SC 29460  
 COA# F-1470

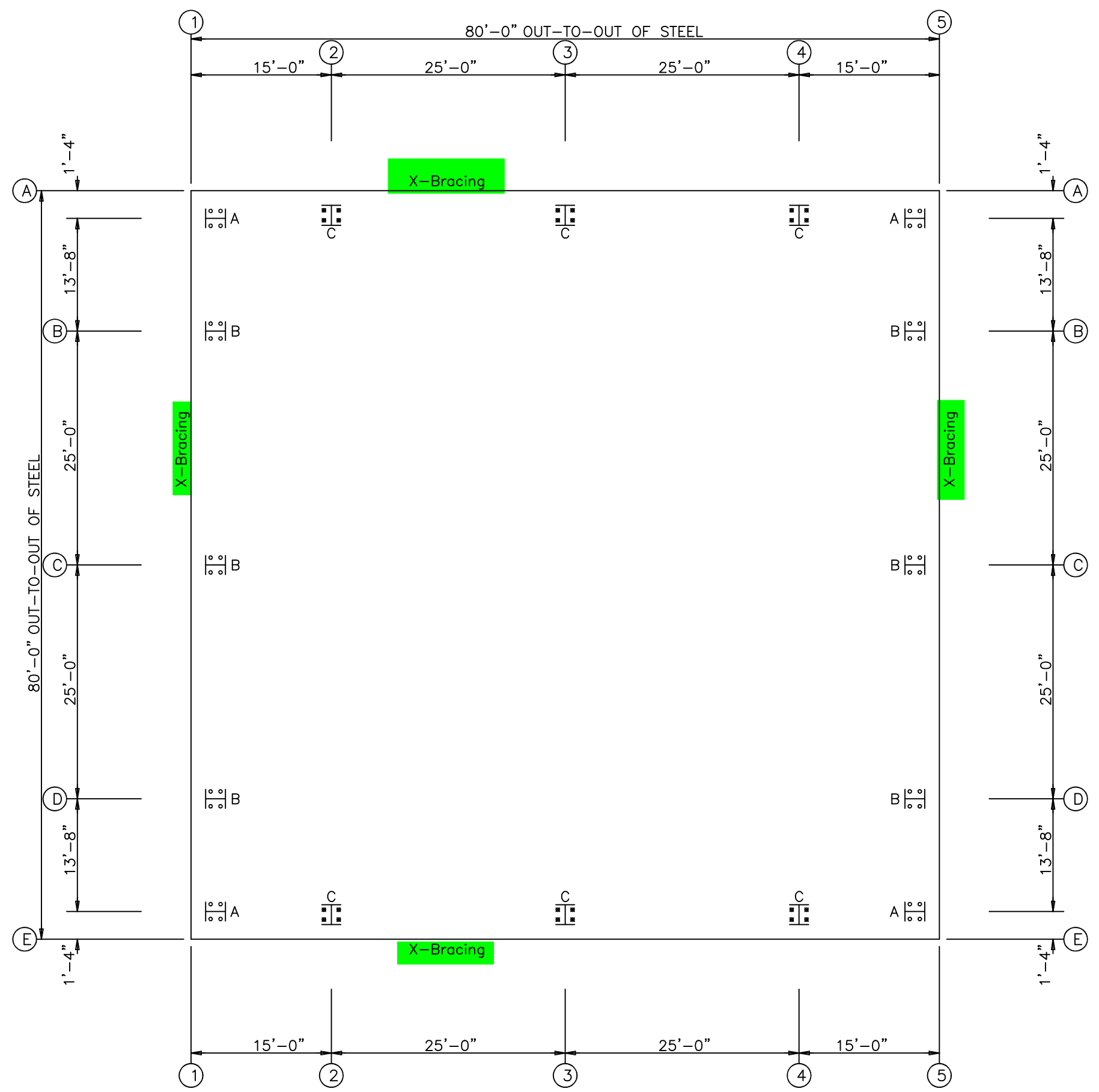
ISSUE	ANCHOR RODS	PERMITS	FINALS	DATE
DOWN	MBS	BKS	RHB	07/21/2023
CHK	MBS	BKS	RHB	07/21/2023
ENG	MBS	BKS	RHB	08/12/2023
PE				

ANCHOR BOLT SUMMARY				
Qty	Locate	Dia (in)	Type	Proj (in)
40	Endwall	3/4"	F1554	3.00
24	Frame	1"	F1554	3.00

## 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.

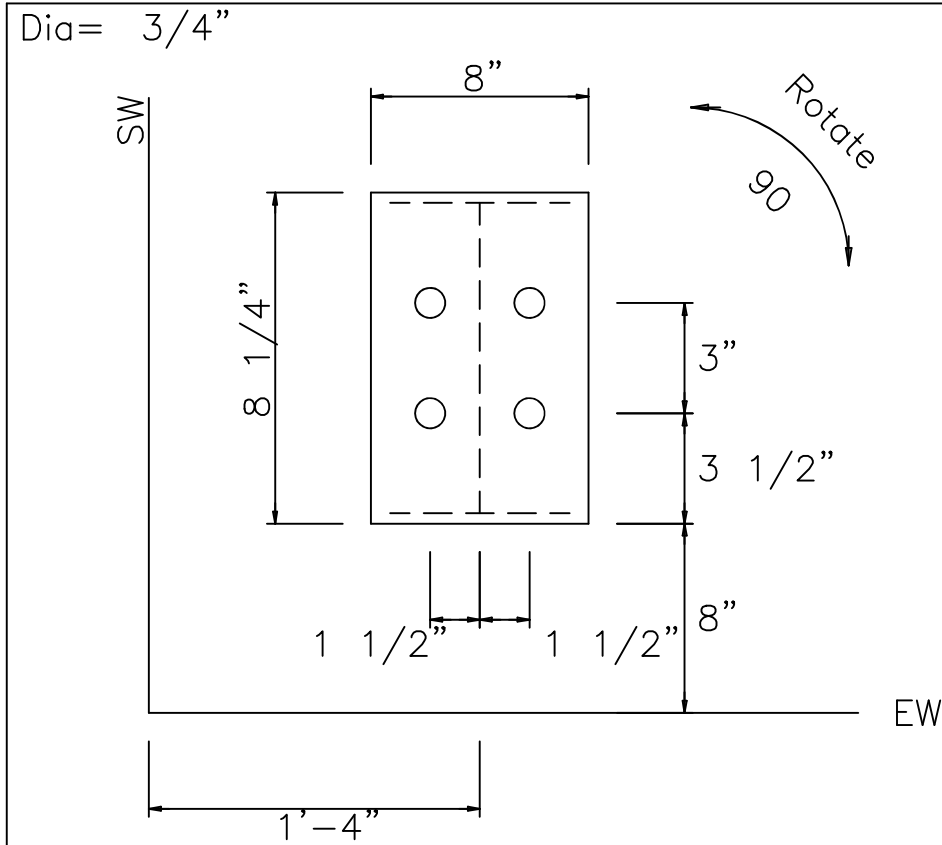


ANCHOR BOLT PLAN  
NOTE: All Base Plates @ 100'-0" (U.N.)

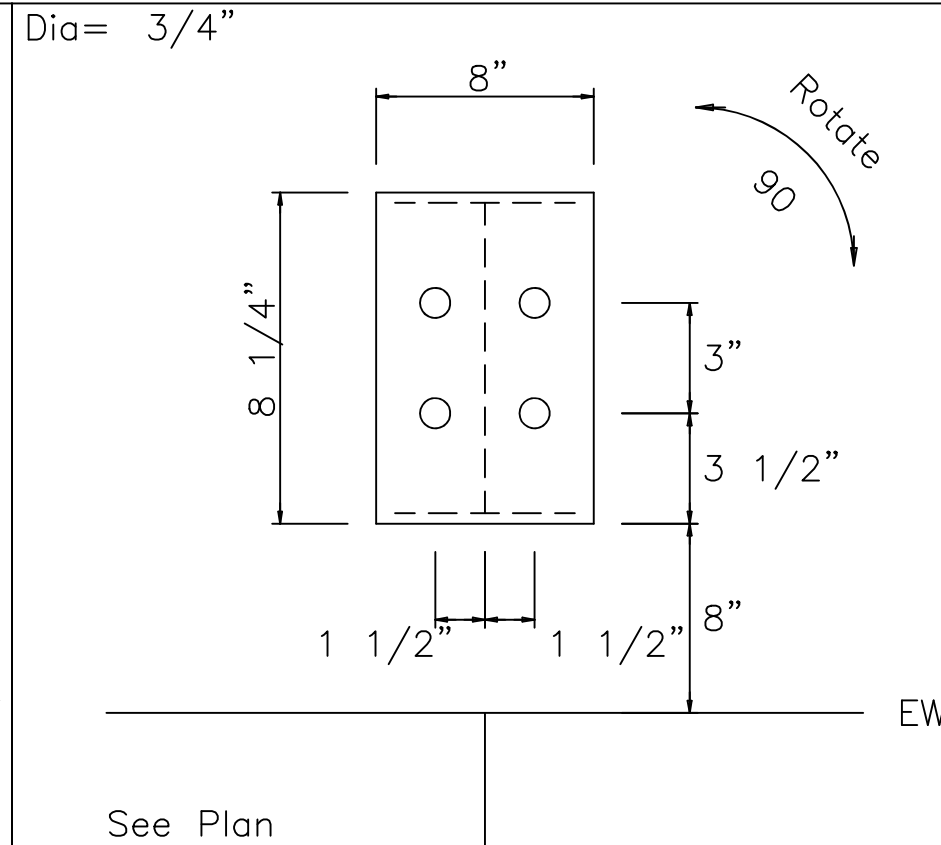
PROJECT NAME	CAMPBELL BASEBALL OPEN SHELTER	ENGINEER	RAJESH H. BHAGNARI
CUSTOMER NAME	76 UPCHURCH LANE, BUIES CREEK, NC 27506	DATE	07/21/2023
CUSTOMER NAME	SOUTHEASTERN CONSTRUCTION OF BUIES CREEK, LLC	DATE	07/21/2023
CUSTOMER NAME	BUIES CREEK, NC 27506	DATE	08/12/2023
JOB NUMBER	A23B0716A	ISSUE	
SHEET TITLE	ANCHOR BOLT PLAN	ANCHOR RODS	
		PERMITS	
		FINALS	
Engineering Performed By:	Nucor Corporation	CHK	
	200 Whetstone Rd.	BKK	
	Swansea, SC 29460	RHB	
	COA# F-1470	RHB	
		BLS	
		RHB	

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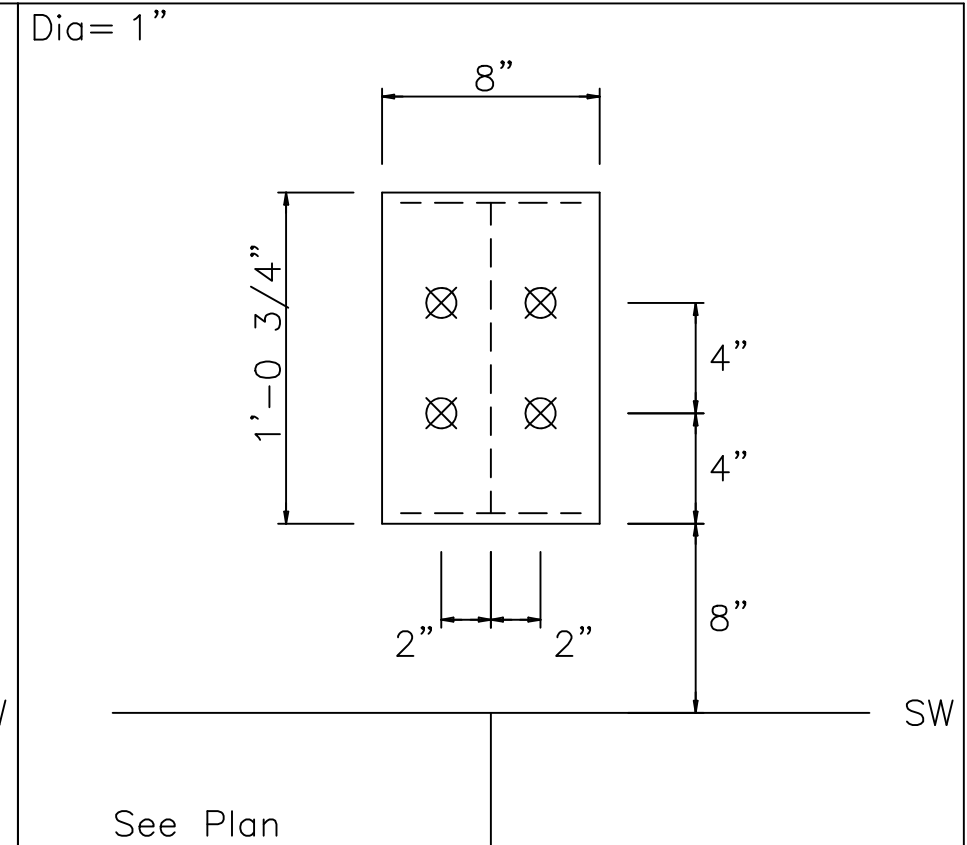
SHEET  
F1 of 2



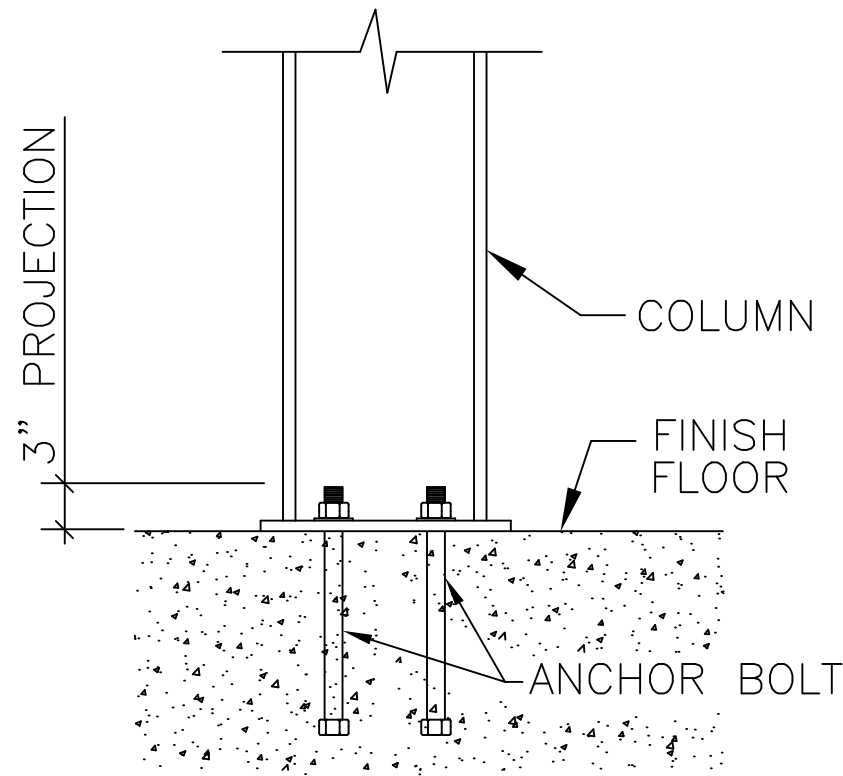
DETAIL A



DETAIL B



DETAIL C



TYPICAL COLUMN BASE PLATE DETAIL

FOUNDATION DESIGN NOTES:

1. THE ORIENTATION OF THE ANCHOR BOLT DETAILS SHOWN ON THIS PAGE MAY NOT COINCIDE WITH THE ACTUAL COLUMN ORIENTATION SHOWN ON THE ANCHOR BOLT DRAWING. PLEASE REFERENCE THE SIDEWALL (SW) AND ENDWALL (EW) STEEL LINES SHOWN ON THE ANCHOR BOLT DETAILS WITH THE ANCHOR BOLT PLAN DURING LAYOUT OF COLUMN AND ANCHOR BOLT LOCATIONS.
2. COLUMN BASE PLATES MAY HAVE MORE HOLES THAN ARE REQUIRED DUE TO PRODUCTION LIMITATIONS. PLEASE FOLLOW ANCHOR BOLT DETAILS FOR QUANTITY OF ANCHOR BOLTS REQUIRED. EXTRA BASE PLATE HOLES DO NOT NEED INFILLED PER THE MBS DESIGN SPECIFICATIONS.

DATE	ISSUE	CHK	ENG	PE
07/21/2023	ANCHOR RODS	BKK	RHB	
07/21/2023	PERMITS	MBS	RHB	
08/12/2023	FINALS	MBS	BLS	RHB

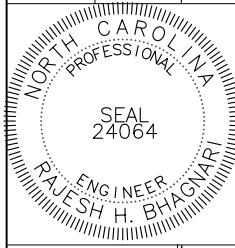
Engineering Performed By:  
 Nucor Corporation  
 200 Whetstone Rd.  
 Swansea, SC 29460  
 COA# F-1470

PROJECT NAME  
 CAMPBELL BASEBALL OPEN SHELTER  
 76 UPCHURCH LANE, BUIES CREEK, NC 27506

CUSTOMER NAME  
 SOUTHEASTERN CONSTRUCTION OF BUIES CREEK, LLC  
 BUIES CREEK, NC 27506

JOB NUMBER  
 A23B0716A

SHEET TITLE  
 BASE PLATE DETAILS

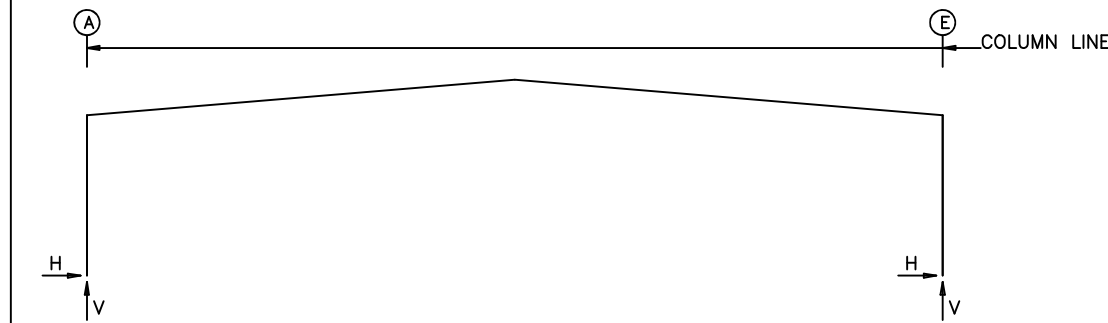


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SHEET  
 F2 of 2



FRAME LINES: 2 3 4



RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Qty	Bolt Dia	Base_Plate Width (in)	Base_Plate Length (in)	Thick	Elev. (in)
2*	A	4	1.000	8.000	12.75	0.500	0.0
2*	E	4	1.000	8.000	12.75	0.500	0.0
2* Frame lines: 2 3 4							

ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc. Qty	Bolt Dia	Base_Plate Width (in)	Base_Plate Length (in)	Thick	Elev. (in)
1	A	4	0.750	8.000	8.250	0.375	0.0
1	B	4	0.750	8.000	8.250	0.375	0.0
1	C	4	0.750	8.000	8.250	0.375	0.0
1	D	4	0.750	8.000	8.250	0.375	0.0
1	E	4	0.750	8.000	8.250	0.375	0.0
5	E	4	0.750	8.000	8.250	0.375	0.0
5	D	4	0.750	8.000	8.250	0.375	0.0
5	C	4	0.750	8.000	8.250	0.375	0.0
5	B	4	0.750	8.000	8.250	0.375	0.0
5	A	4	0.750	8.000	8.250	0.375	0.0

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<sub>ult</sub>).
- 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#/LWIND#\_R#: LONGITUDINAL WIND EDGE ZONES  
 F#UNB\_SL\_L/F#UNB\_SL\_R: UNBALANCED ROOF SNOW WITH WIND FROM LEFT/RIGHT  
 F#PAT\_LL #/F#PAT\_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  
 E#UNB\_SL\_L/E#UNB\_SL\_R: UNBALANCED ROOF SNOW WITH WIND FROM LEFT/RIGHT  
 E#PAT\_LL #/E#PAT\_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	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2*	A	3.6	4.6	0.9	1.1	10.8	12.6	13.7	15.9	-9.1	-10.6	-9.1	-10.6
2*	E	-3.6	4.6	-0.9	1.1	-10.8	12.6	-13.7	15.9	9.1	-10.6	9.1	-10.6
Frame Line	Column Line	Wind_Left2		Wind_Right2		Wind_Long1		Wind_Long2		Seismic_Left		Seismic_Right	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
2*	A	-7.6	-6.4	-6.9	-10.5	-18.5	-21.6	12.3	14.4	-0.4	-0.1	0.4	0.1
2*	E	6.9	-10.5	7.6	-6.4	18.5	-21.6	-12.3	14.4	-0.4	0.1	0.4	-0.1
Frame Line	Column Line	MIN_SNOW		F1UNB_SL_L		F1UNB_SL_R							
		Horiz	Vert	Horiz	Vert	Horiz	Vert						
2*	A	13.6	15.9	11.1	15.3	11.1	8.9						
2*	E	-13.6	15.9	-11.1	8.9	-11.1	15.3						
2* Frame lines: 2 3 4													

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind Left1	Wind Right1	Wind Left2	Wind Right2	Wind Press	Wind Suct	Wind Long2	Seis Left
						Vert	Vert	Vert	Vert	Horz	Horz	Vert	Vert
1	A	0.3	0.0	0.6	0.4	-0.3	-0.3	-0.1	-0.4	-0.9	1.0	0.3	0.0
1	B	1.2	0.2	4.2	3.0	-2.1	-2.1	-0.9	-2.5	-2.5	2.5	1.8	0.0
1	C	1.1	0.2	3.3	2.5	-1.6	-1.6	-1.3	-1.3	-3.6	3.6	1.4	0.0
1	D	1.2	0.2	4.2	3.0	-2.1	-2.1	-2.6	-0.9	-2.5	2.5	1.8	0.0
1	E	0.3	0.0	0.6	0.4	-0.3	-0.3	-0.4	-0.1	-0.9	1.0	0.3	0.0
Frm Line	Col Line	Seis Right	MIN_SNOW		E1UNB_SL_L		E1UNB_SL_R						
			Horz	Vert	Horz	Vert	Horz	Vert					
1	A	0.0	0.0	0.4	0.0	0.3	0.0	0.1					
1	B	0.0	0.0	3.2	0.0	3.8	0.0	1.0					
1	C	0.0	0.0	2.5	0.0	2.3	0.0	2.3					
1	D	0.0	0.0	3.2	0.0	1.0	0.0	3.8					
1	E	0.0	0.0	0.4	0.0	0.1	0.0	0.3					
Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind Left1	Wind Right1	Wind Left2	Wind Right2	Wind Press	Wind Suct	Wind Long2	Seis Left
						Vert	Vert	Vert	Vert	Horz	Horz	Vert	Vert
5	E	0.3	0.0	0.6	0.4	-0.3	-0.3	-0.1	-0.4	-0.9	1.0	0.3	0.0
5	D	1.2	0.2	4.2	3.0	-2.1	-2.1	-0.9	-2.6	-2.5	2.5	1.8	0.0
5	C	1.1	0.2	3.3	2.5	-1.6	-1.6	-1.3	-1.3	-3.6	3.6	1.4	0.0
5	B	1.2	0.2	4.2	3.0	-2.1	-2.1	-2.6	-0.9	-2.5	2.5	1.8	0.0
5	A	0.3	0.0	0.6	0.4	-0.3	-0.3	-0.4	-0.1	-0.9	1.0	0.3	0.0
Frm Line	Col Line	Seis Right	MIN_SNOW		E2UNB_SL_L		E2UNB_SL_R						
			Horz	Vert	Horz	Vert	Horz	Vert					
5	E	0.0	0.0	0.4	0.0	0.3	0.0	0.1					
5	D	0.0	0.0	3.2	0.0	3.8	0.0	1.0					
5	C	0.0	0.0	2.5	0.0	2.3	0.0	2.3					
5	B	0.0	0.0	3.2	0.0	1.0	0.0	3.8					
5	A	0.0	0.0	0.4	0.0	0.1	0.0	0.3					

BUILDING BRACING REACTIONS

Loc	Wall Line	Col Line	± Reactions(k)				Panel_Shear (lb/ft)	
			Wind		Seismic		Wind	Seis
			Horz	Vert	Horz	Vert		
L_EW	1	B,C	0.2	0.1	0.3	0.2		
F_SW	E	2,3	12.1	6.3	1.1	0.6		
R_EW	5	C,B	0.2	0.1	0.3	0.2		
B_SW	A	3,2	12.1	6.3	1.1	0.6		

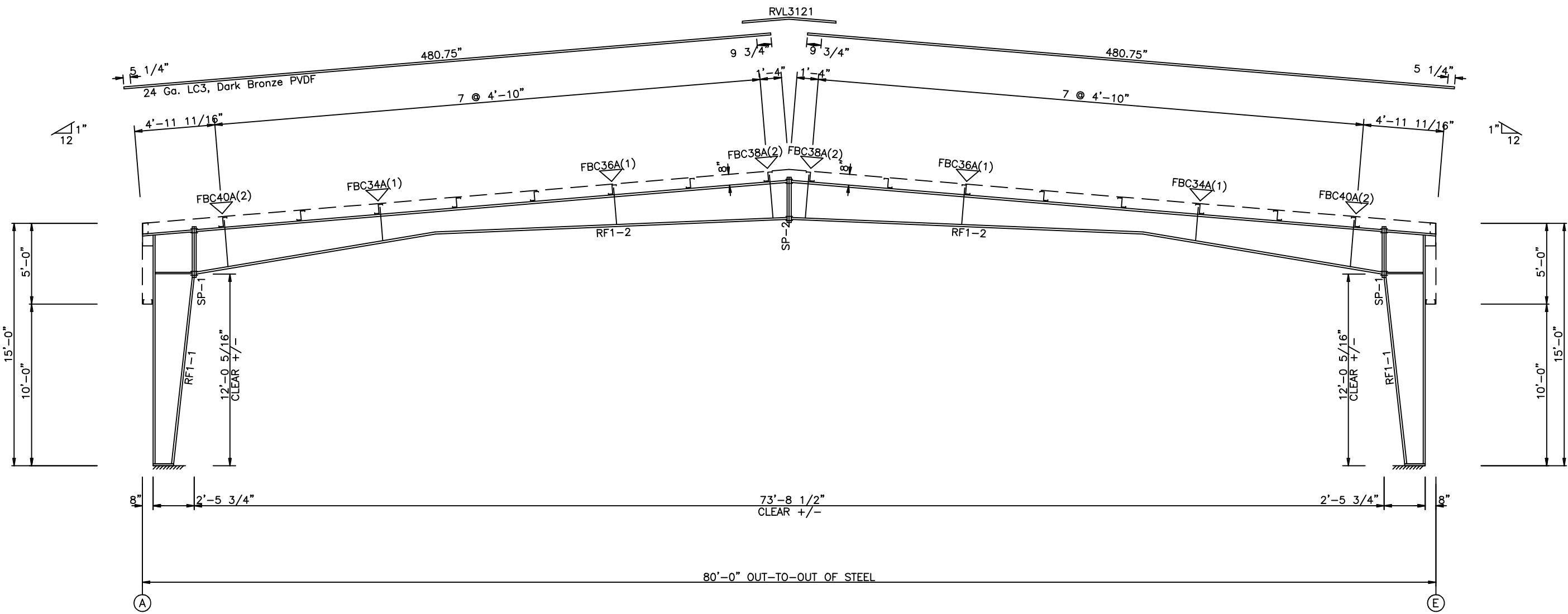
DATE	CHK	ENG	PE
	BKK	RHB	
	MBS	RHB	
	MBS	BLS	

Engineering Performed By:  
 Nucor Corporation  
 200 Whetstone Rd.  
 Swansea, SC 29460  
 COA# F-1470

PROJECT NAME  
 CAMPBELL BASEBALL OPEN SHELTER  
 76 UPCHURCH LANE, BUJES CREEK, NC 27506  
 CUSTOMER NAME  
 SOUTHEASTERN CONSTRUCTION OF BUJES CREEK, LLC  
 BUJES CREEK, NC 27506  
 JOB NUMBER  
 A23B0716A  
 SHEET TITLE  
 REACTIONS

Seal and signature area for Rajesh H. Bhagnari, Engineer, North Carolina Professional Seal 24064.

Small disclaimer text regarding the use of the drawings and the responsibility of the manufacturer.



SPLICE PLATE & BOLT TABLE									
Mark	Qty		Int	Type	Dia	Length	Width	Thick	Length
	Top	Bot							
SP-1	4	4	0	A325	0.750	3.00	6"	3/4"	3'-1"
SP-2	4	4	0	A325	0.625	2.25	6"	1/2"	2'-8 1/4"

RIGID FRAME ELEVATION: FRAME LINE 2 3 4

ISSUE	DATE	CHK	ENG	PE
PERMITS	07/21/2023	BKK	RHB	
FINALS	08/12/2023	MBS	BLS	
		MBS	BLS	

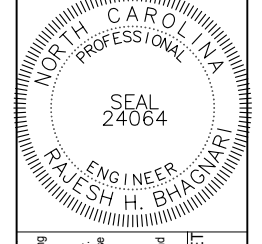
Engineering Performed By:  
 Nucor Corporation  
 200 Whetstone Rd.  
 Swansea, SC 29460  
 COA# F-1470

PROJECT NAME  
**CAMPBELL BASEBALL OPEN SHELTER**  
 76 UPCHURCH LANE, BUIES CREEK, NC 27506

CUSTOMER NAME  
 SOUTHEASTERN CONSTRUCTION OF BUIES CREEK, LLC  
 BUIES CREEK, NC 27506

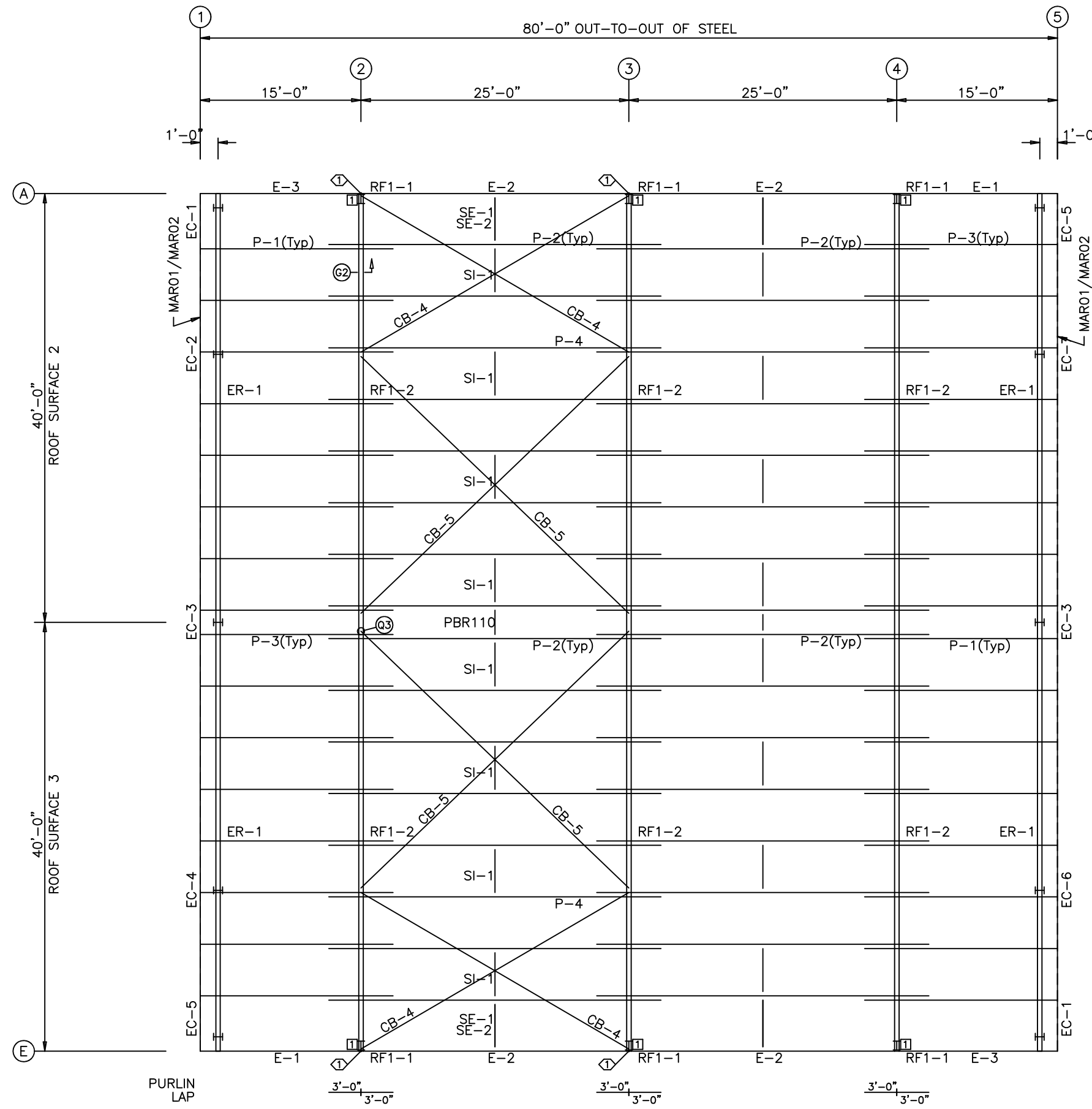
JOB NUMBER  
 A23B0716A

SHEET TITLE  
 RIGID FRAME CROSS SECTION



This seal remains only in the records of the Manufacturer and is not to be used on drawings or specifications which they represent as the product of the Metal Building Manufacturer. The registered professional engineer whose seal appears on these drawings is employed by the Metal Building Manufacturer and does not serve as or represent the project engineer of record and shall not be construed as such.

SHEET  
**E1 of 7**



SPECIAL BOLTS				
ROOF PLAN				
Ø ID	QUAN	TYPE	DIA	LENGTH WASH
1	4	A325	1/2"	2" 1

MEMBER TABLE		
ROOF PLAN		
MARK	PART	LENGTH
P-1	08Z060	215.750
P-2	08Z060	372.000
P-3	08Z060	215.750
P-4	08Z089	372.000
E-1	08E060	179.625
E-2	08E075	299.750
E-3	08E060	179.625
CB-4	RD05-	346.000
CB-5	RD05-	421.000
PBR110	PBR110	16.000
SI-1	PBX-	60.500
SE-1	PBX-	62.250
SE-2	PBX-	62.750

CONNECTION PLATES	
ROOF PLAN	
ID	MARK/PART
1	ESC02

DATE	ISSUE	CHK	ENG	PE
07/21/2023	PERMITS	BKK	RHB	
08/12/2023	FINALS	MBS	BLS	
		MBS	RHB	

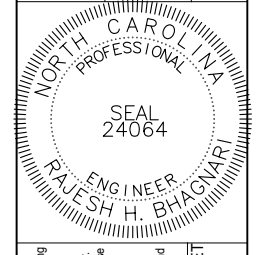
Engineering Performed By:  
 Nucor Corporation  
 200 Whetstone Rd.  
 Swansea, SC 29460  
 COA# F-1470

PROJECT NAME  
 CAMPBELL BASEBALL OPEN SHELTER  
 76 UPCHURCH LANE, BUJES CREEK, NC 27506

CUSTOMER NAME  
 SOUTHEASTERN CONSTRUCTION OF BUJES CREEK, LLC  
 BUJES CREEK, NC 27506

JOB NUMBER  
 A23B0716A

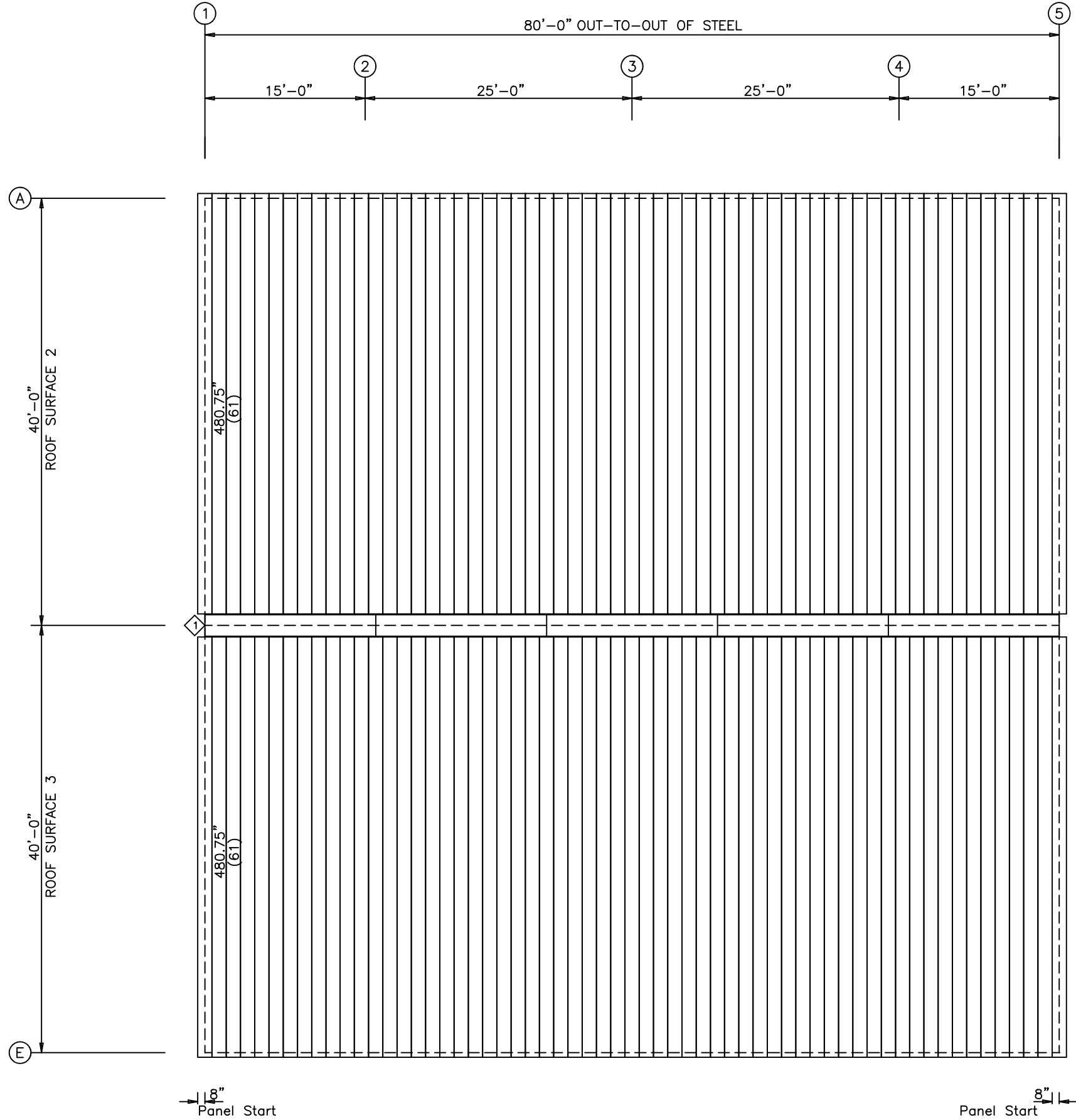
SHEET TITLE  
 ROOF FRAMING PLAN



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SHEET  
 E2 of 7

TRIM TABLE		
ROOF PLAN		
◇ ID	PART	LENGTH
1	RVL3121	121.000
		EG3010



**ROOF SHEETING PLAN**  
 PANELS: 24 Ga. LC3 - Dark Bronze PVDF

ISSUE	DATE	ENG	CHK	DATE
PERMITS	07/21/2023	RHB	BKK	
FINALS	08/12/2023	RHB	BLS	

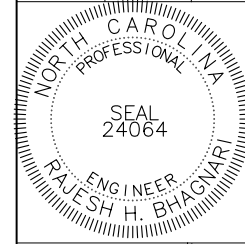
Engineering Performed By:  
 Nucor Corporation  
 200 Whetstone Rd.  
 Swansea, SC 29460  
 COA# F-1470

PROJECT NAME  
**CAMPBELL BASEBALL OPEN SHELTER**  
 76 UPCHURCH LANE, BUIES CREEK, NC 27506

CUSTOMER NAME  
 SOUTHEASTERN CONSTRUCTION OF BUIES CREEK, LLC  
 BUIES CREEK, NC 27506

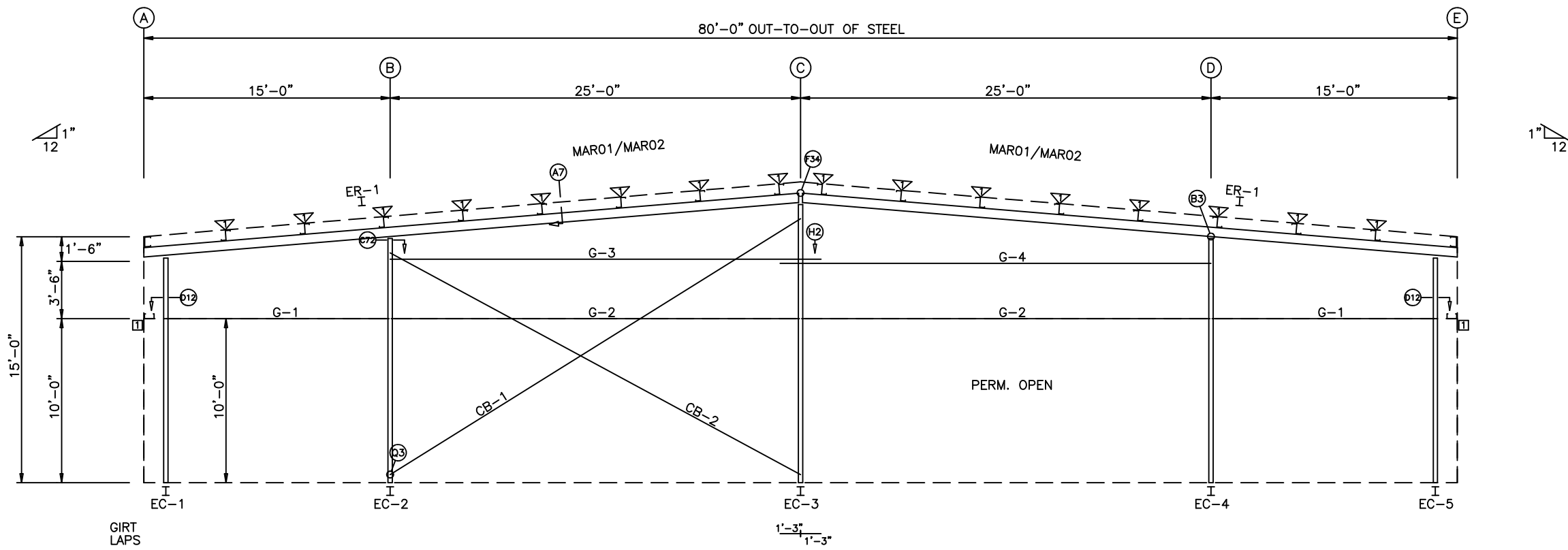
JOB NUMBER  
 A23B0716A

SHEET TITLE  
 ROOF SHEETING PLAN



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SHEET  
**E3 of 7**



ENDWALL FRAMING: FRAME LINE 1

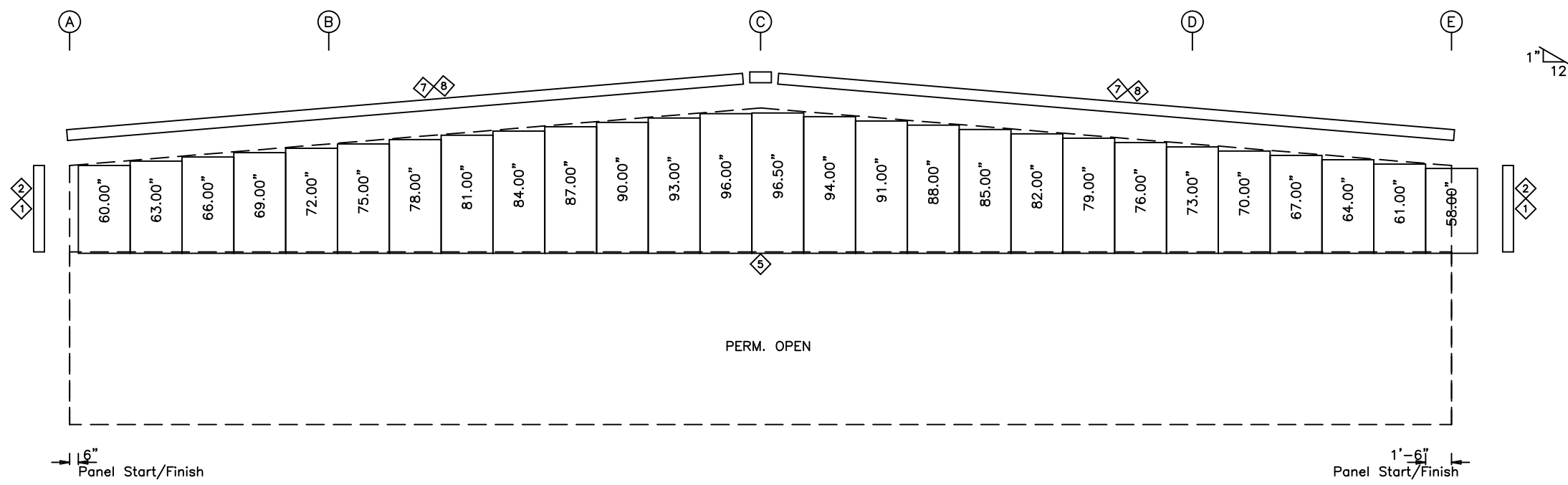
BOLT TABLE FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-1	4	A325	1/2"	2"
Columns/Raf	4	A325	1/2"	2"

TRIM TABLE FRAME LINE 1			
ID	PART	LENGTH	DETAIL
1	COB242	242.000	
2	MFA121	121.000	TRIM_352
5	BSE121	121.000	GB0140
7	RSA242	242.000	EE3010
8	RTR121	121.000	EE3010

MEMBER TABLE FRAME LINE 1		
MARK	PART	LENGTH
EC-1	W8x10	165.313
EC-2	W8x10	178.938
EC-3	W8x10	203.813
EC-4	W8x10	178.938
EC-5	W8x10	165.313
ER-1	W8x18	480.500
G-1	08C060	170.750
G-2	08C060	298.500
G-3	08Z060	317.250
G-4	08Z060	317.250
CB-1	RD05-	364.000
CB-2	RD05-	351.000

FLANGE BRACE TABLE FRAME LINE 1			
ID	SIDES	MARK	CLIP
1	1	FBC30	

CONNECTION PLATES FRAME LINE 1		
ID	MARK/PART	
1	GCC03&bt	



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. APW - Slate Gray PVDF

DATE	ISSUE	CHK	ENG	PE
07/21/2023		BKK	RHB	
08/12/2023		MBS	BLS	

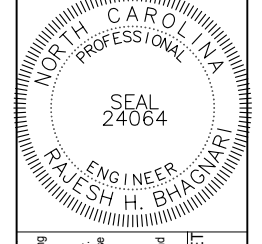
Engineering Performed By:  
Nucor Corporation  
200 Whetstone Rd.  
Swansea, SC 29460  
COA# F-1470

PROJECT NAME  
CAMPBELL BASEBALL OPEN SHELTER  
76 UPCHURCH LANE, BUIES CREEK, NC 27506

CUSTOMER NAME  
SOUTHEASTERN CONSTRUCTION OF BUIES CREEK, LLC  
BUIES CREEK, NC 27506

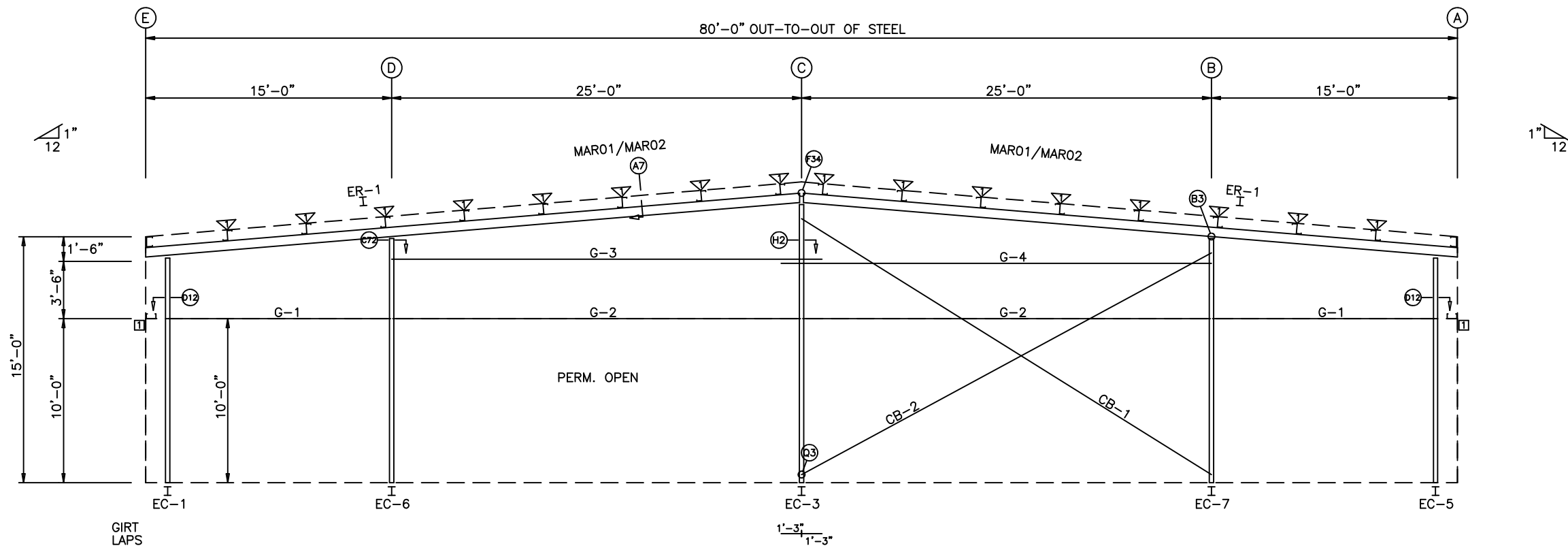
JOB NUMBER  
A23B0716A

SHEET TITLE  
LEFT ENDWALL ELEVATION



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SHEET  
E4 of 7



ENDWALL FRAMING: FRAME LINE 5

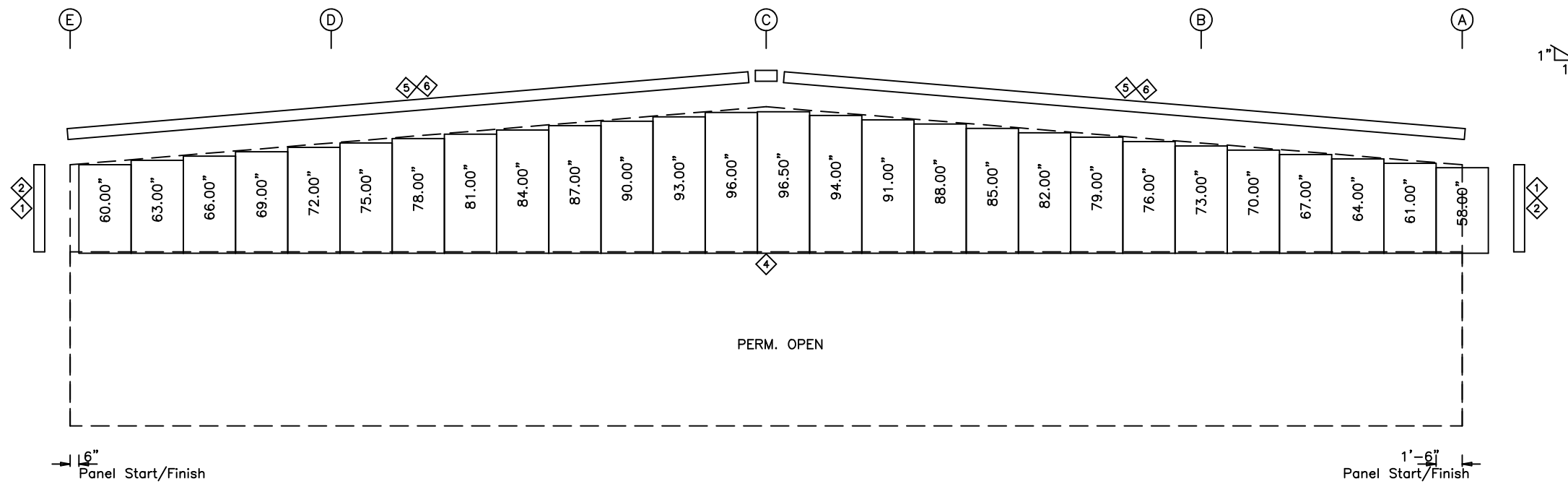
BOLT TABLE FRAME LINE 5				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-1	4	A325	1/2"	2"
Columns/Raf	4	A325	1/2"	2"

TRIM TABLE FRAME LINE 5			
ID	PART	LENGTH	DETAIL
1	MFA121	121.000	TRIM_352
2	COB242	242.000	
4	BSE121	121.000	GB0140
5	RSA242	242.000	EE3010
6	RTR121	121.000	EE3010

MEMBER TABLE FRAME LINE 5		
MARK	PART	LENGTH
EC-1	W8x10	165.313
EC-3	W8x10	203.813
EC-5	W8x10	165.313
EC-6	W8x10	178.938
EC-7	W8x10	178.938
ER-1	W8x18	480.500
G-1	08C060	170.750
G-2	08C060	298.500
G-3	08Z060	317.250
G-4	08Z060	317.250
CB-1	RD05-	364.000
CB-2	RD05-	351.000

FLANGE BRACE TABLE FRAME LINE 5			
ID	#	MARK	CLIP
1	1	FBC30	

CONNECTION PLATES FRAME LINE 5		
ID	MARK/PART	
1	GCC03&bt	



ENDWALL SHEETING & TRIM: FRAME LINE 5

PANELS: 26 Ga. APW - Slate Gray PVDF

DATE	ISSUE	CHK	ENG	PE
07/21/2023		BKK	RHB	
08/12/2023		MBS	BLS	

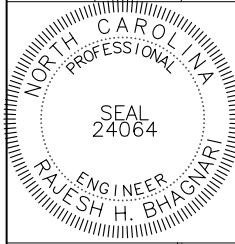
Engineering Performed By:  
Nucor Corporation  
200 Whetstone Rd.  
Swansea, SC 29460  
COA# F-1470

PROJECT NAME  
CAMPBELL BASEBALL OPEN SHELTER  
76 UPCHURCH LANE, BUIES CREEK, NC 27506

CUSTOMER NAME  
SOUTHEASTERN CONSTRUCTION OF BUIES CREEK, LLC  
BUIES CREEK, NC 27506

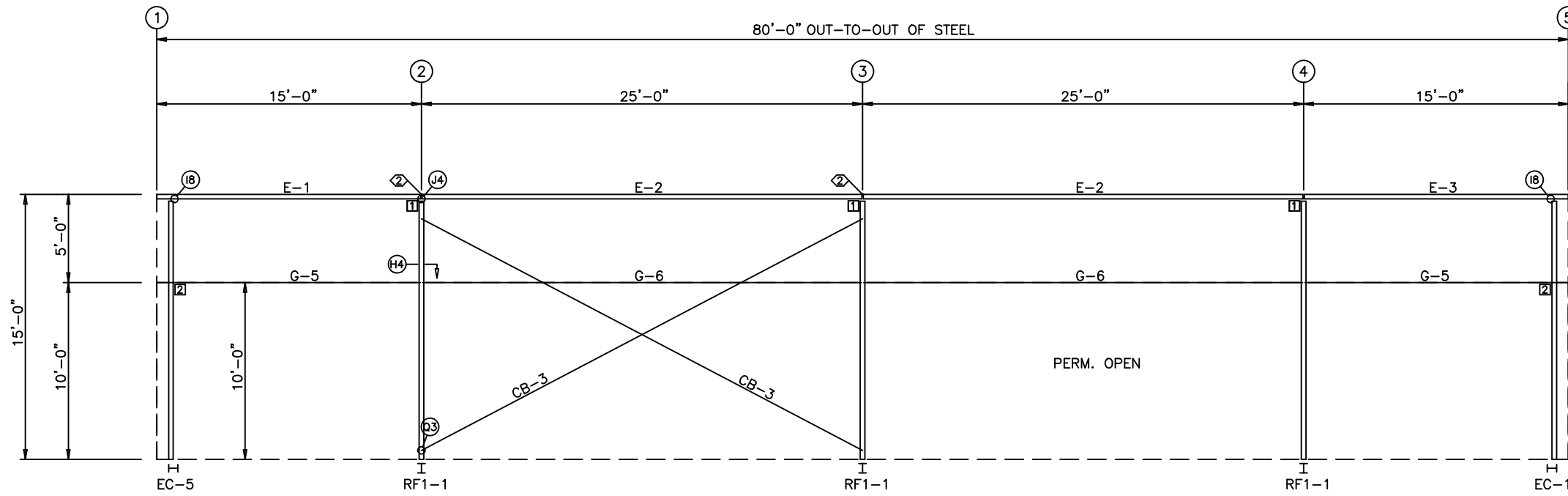
JOB NUMBER  
A23B0716A

SHEET TITLE  
RIGHT ENDWALL ELEVATION



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SHEET  
E5 of 7



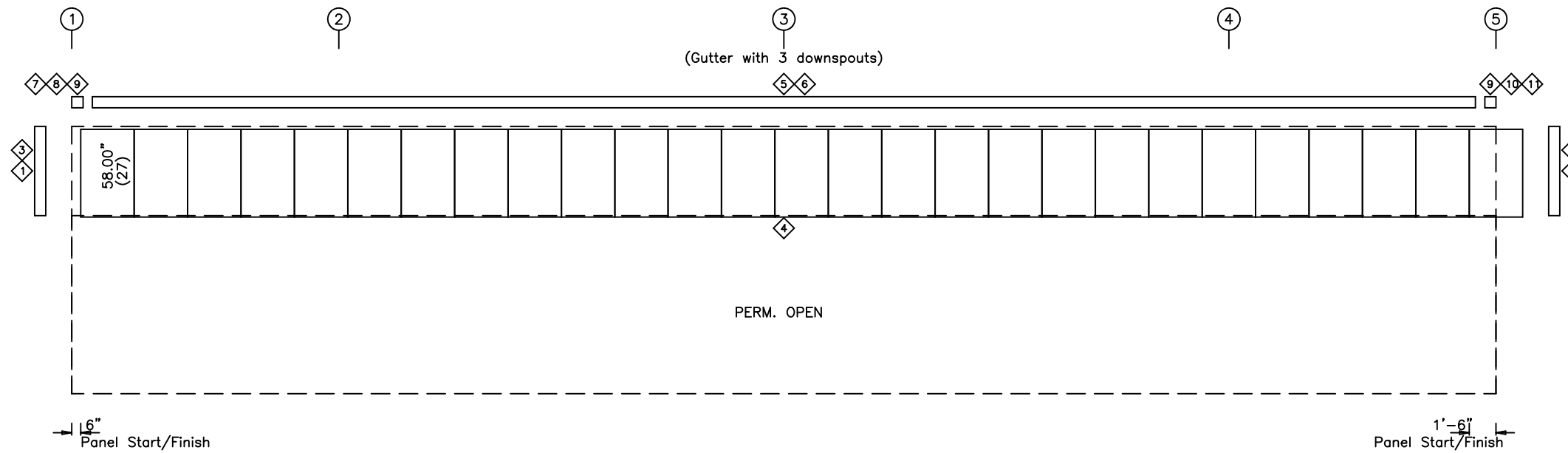
SIDEWALL FRAMING: FRAME LINE E

TRIM TABLE			
FRAME LINE E			
ID	PART	LENGTH	DETAIL
1	COB242	242.000	
3	MFA121	121.000	TRIM_352
4	BSE121	121.000	GB0140
5	LBU121	121.000	ED3010
6	GSA242	242.000	ED3010
7	H4000AL	10.120	
8	RSCL	9.250	
9	RSCE	9.250	
10	H4000AR	10.120	
11	RSCR	9.250	

SPECIAL BOLTS				
ID	QUAN	TYPE	DIA	LENGTH WASH
2	4	A325	1/2"	2" 1

MEMBER TABLE		
FRAME LINE E		
MARK	PART	LENGTH
E-1	08E060	179.625
E-2	08E075	299.750
E-3	08E060	179.625
G-5	08C060	179.000
G-6	08C060	298.500
CB-3	RD06-	350.000

CONNECTION PLATES	
FRAME LINE E	
ID	MARK/PART
1	ESCO2
2	GCCO3&bt



SIDEWALL SHEETING & TRIM: FRAME LINE E

PANELS: 26 Ga. APW - Slate Gray PVDF

DATE	ISSUE	BY	CHK	ENG	PE
07/21/2023					
08/12/2023					

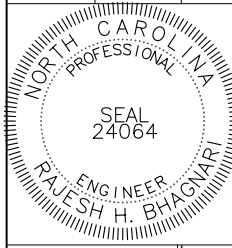
Engineering Performed By:  
 Nucor Corporation  
 200 Whetstone Rd.  
 Swansea, SC 29460  
 COA# F-1470

PROJECT NAME  
 CAMPBELL BASEBALL OPEN SHELTER  
 76 UPCHURCH LANE, BUIES CREEK, NC 27506

CUSTOMER NAME  
 SOUTHEASTERN CONSTRUCTION OF BUIES CREEK, LLC  
 BUIES CREEK, NC 27506

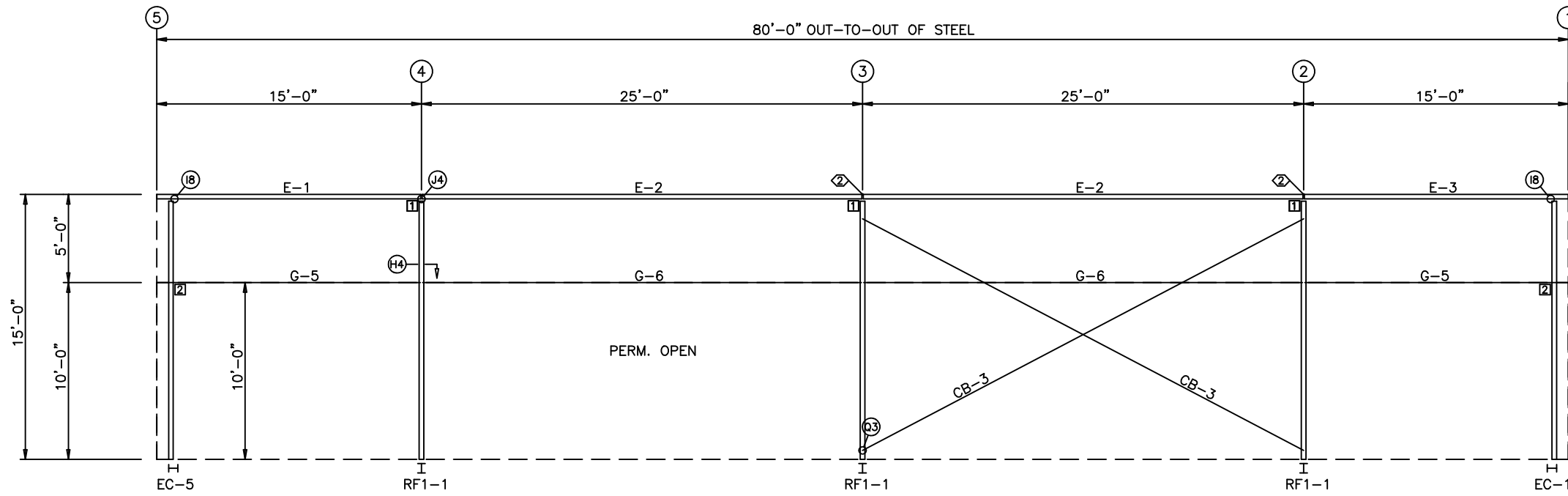
JOB NUMBER  
 A23B0716A

SHEET TITLE  
 FRONT SIDEWALL ELEVATION



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SHEET  
 E6 of 7



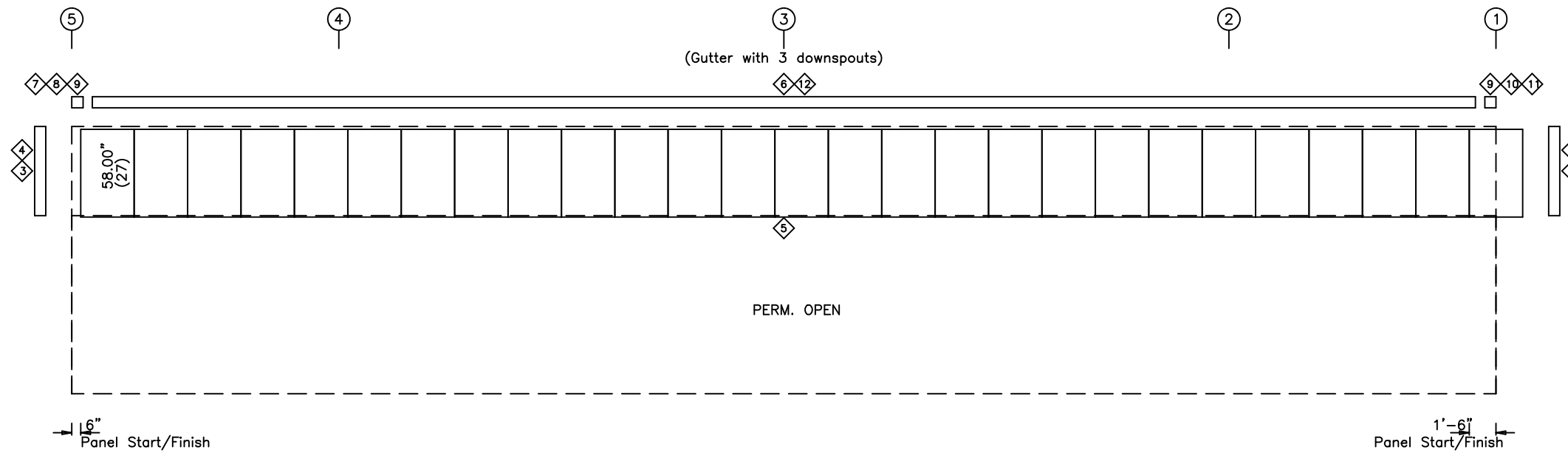
SIDEWALL FRAMING: FRAME LINE A

TRIM TABLE			
FRAME LINE A			
ID	PART	LENGTH	DETAIL
3	COB242	242.000	
4	MFA121	121.000	TRIM_352
5	BSE121	121.000	GB0140
6	GSA242	242.000	ED3010
7	H4000AL	10.120	
8	RSCL	9.250	
9	RSCE	9.250	
10	H4000AR	10.120	
11	RSCR	9.250	
12	LBU121	121.000	ED3010

SPECIAL BOLTS				
ID	QUAN	TYPE	DIA	LENGTH WASH
2	4	A325	1/2"	2" 1

MEMBER TABLE		
FRAME LINE A		
MARK	PART	LENGTH
E-1	08E060	179.625
E-2	08E075	299.750
E-3	08E060	179.625
G-5	08C060	179.000
G-6	08C060	298.500
CB-3	RD06-	350.000

CONNECTION PLATES	
FRAME LINE A	
ID	MARK/PART
1	ESC02
2	GCC03&bt



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Ga. APW - Slate Gray PVDF

DATE	ISSUE	BY	CHK	ENG	PE
07/21/2023	PERMITS		BKK	RHB	
08/12/2023	FINALS		MBS	BLS	RHB

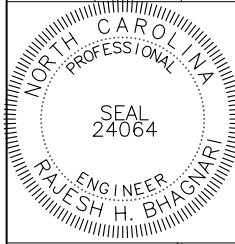
Engineering Performed By:  
 Nucor Corporation  
 200 Whetstone Rd.  
 Swansea, SC 29460  
 COA# F-1470

PROJECT NAME  
**CAMPBELL BASEBALL OPEN SHELTER**  
 76 UPCHURCH LANE, BUIES CREEK, NC 27506

CUSTOMER NAME  
 SOUTHEASTERN CONSTRUCTION OF BUIES CREEK, LLC  
 BUIES CREEK, NC 27506

JOB NUMBER  
 A23B0716A

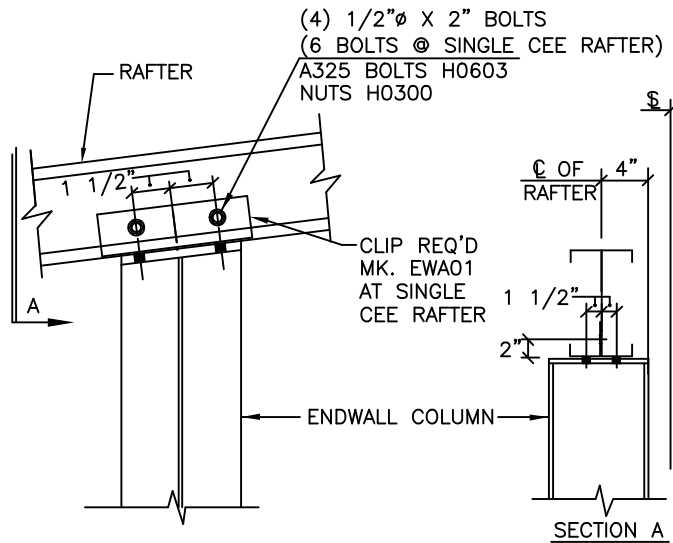
SHEET TITLE  
 BACK SIDEWALL ELEVATION



This seal remains only in the hands of the registered professional engineer whose name and the Metal Building Manufacturer's name are on the drawings. The drawings which they represent are the product of the Metal Building Manufacturer. The registered professional engineer whose seal appears on these drawings is employed by the Metal Building Manufacturer and does not serve as or represent the project engineer of record and shall not be construed as such.

SHEET  
**E7 of 7**



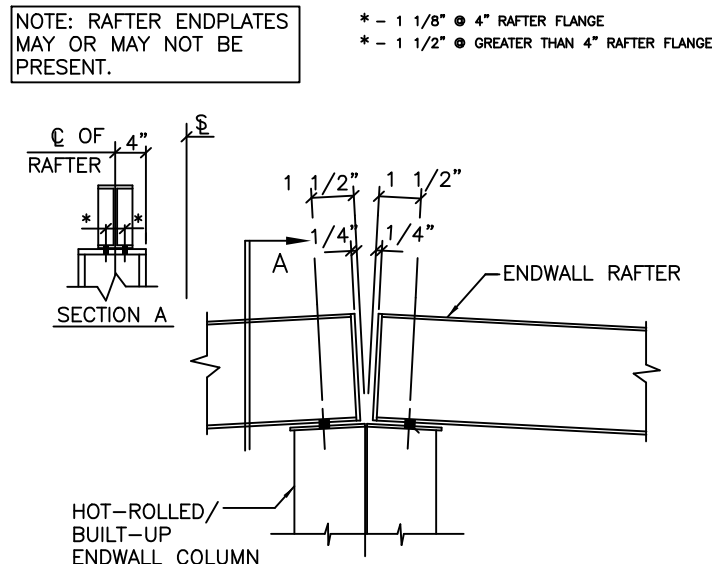


**EW COLUMN TO RAFTER CONNECTION**  
(CONTINUOUS RAFTER)

REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

**B3**

AC0045

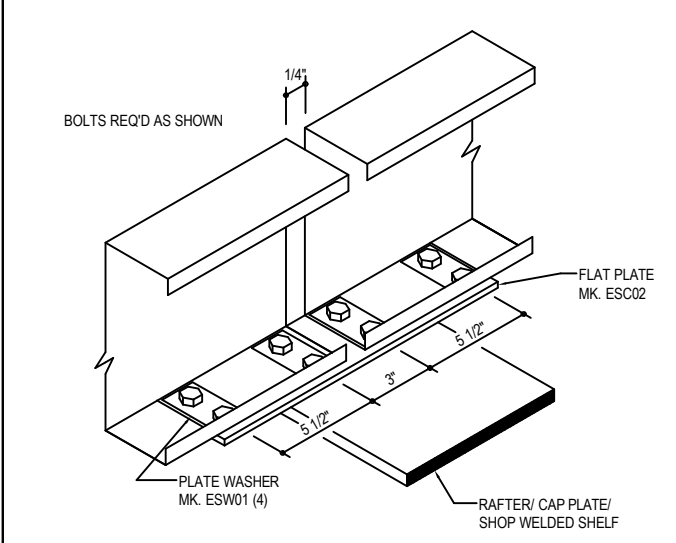


**HR/BU ENDWALL COLUMN TO RAFTER**

USE (4) 1/2" x 2" A325 BOLTS H0603 / NUTS H0300  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

**F34**

AC0140

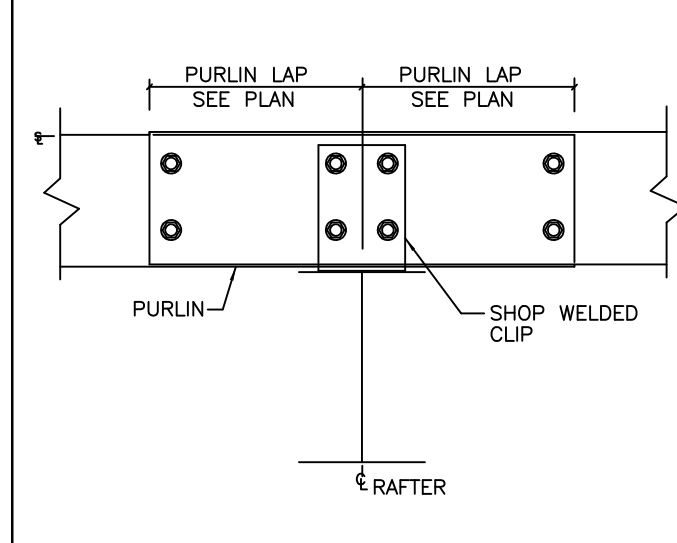


**LOW EAVE EAVE STRUT AT BYPASS GIRTS**

USE (8) 1/2" x 2" A325 BOLTS H0603 / NUTS H0300  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

**J4**

BA0070

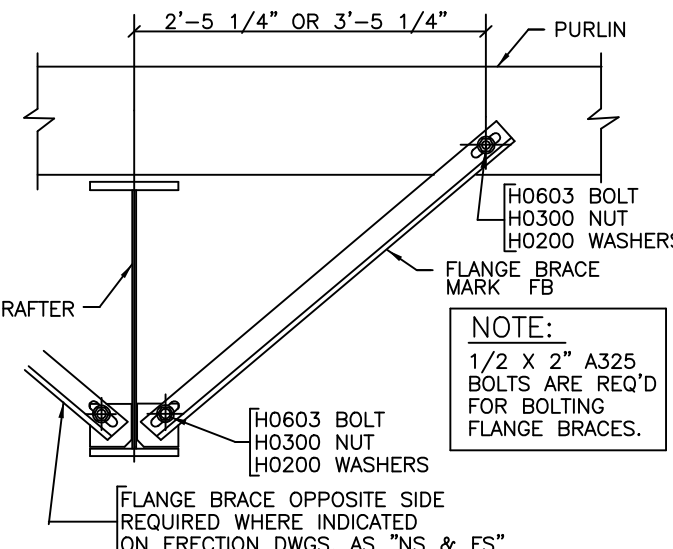


**PURLIN TO INTERIOR FRAME RAFTER**

USE (8) 1/2" x 1 1/4" A307 BOLTS H0500 / NUTS H0400  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

**G2**

BB0050

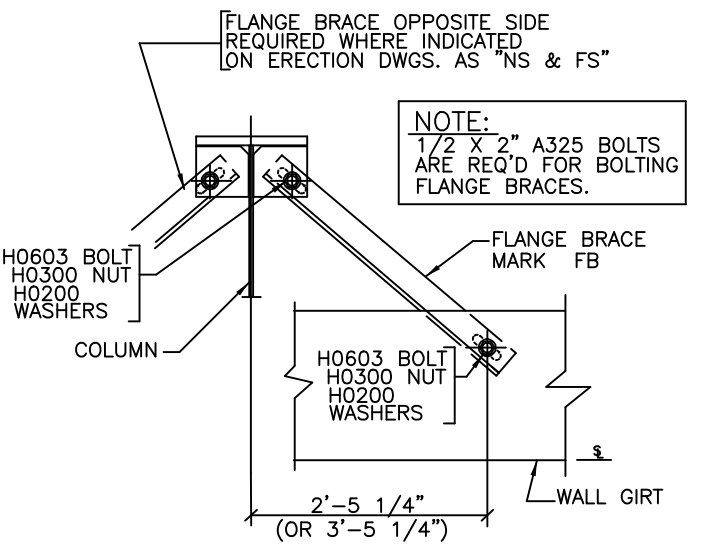


**TYP FLANGE BRACE @ PURLIN & RAFTER**

NOTE: SEE PLANS AND ELEVATIONS FOR FLANGE BRACE PART MARKS

**(NAG0010)**

AG0010



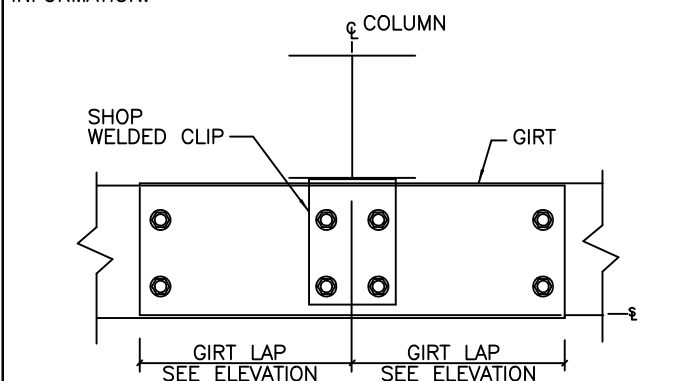
**TYP FLANGE BRACE @ BU COL & GIRT**

NOTE: SEE PLANS AND ELEVATIONS FOR FLANGE BRACE PART MARKS

**(NAG0030)**

AG0030

**ERECTOR NOTE:**  
AT EACH LAPPED GIRT CONNECTION, (1) 1/2" X 1 1/4" THIN HEAD BOLT H0510/NUT H0400 MUST BE USED TO ATTACH THE FIRST GIRT TO THE GIRT CLIP. THE BOLT/NUT ASSEMBLY MUST BE WRENCH TIGHT PRIOR TO THE LAPPED GIRT BEING INSTALLED. REFERENCE THE STANDARD "LAPPED GIRT DETAIL" FOR MORE INFORMATION.

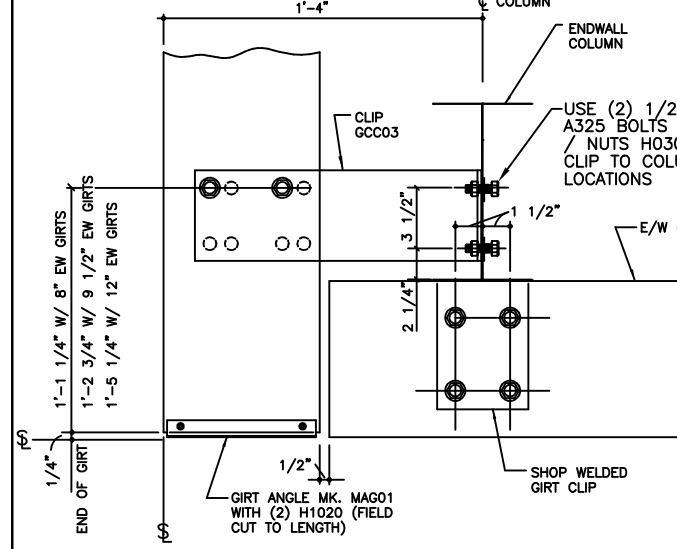


**GIRT TO COLUMN**

USE (7) 1/2" x 1 1/4" A307 BOLTS H0500 / NUTS H0400  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

**H2**

CO0020

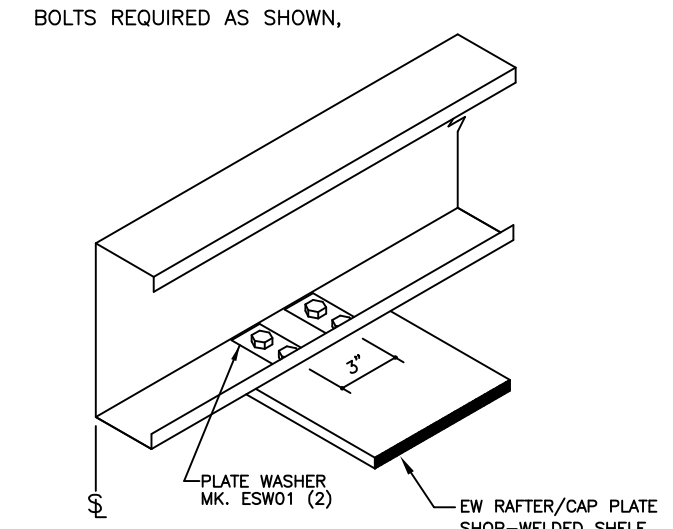


**BYPASS ENDWALL GIRT AT CORNER**

USE (6) 1/2" x 1 1/4" A307 BOLTS H0500 / NUTS H0400  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

**D12**

CF0010

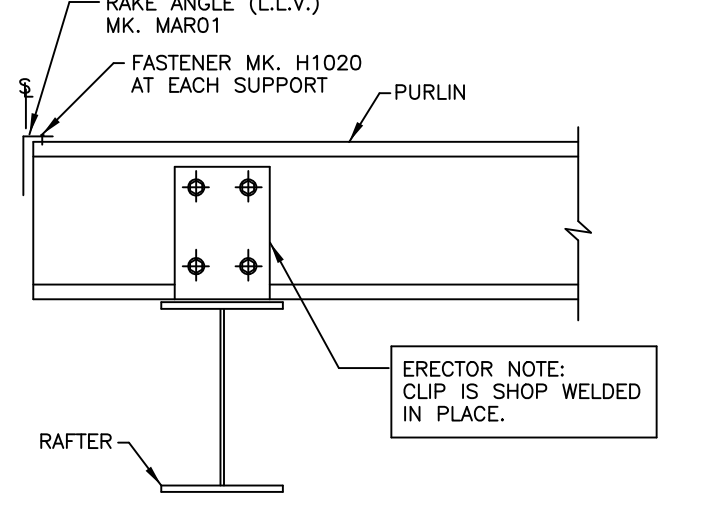


**EAVE STRUT TO ENDWALL RAFTER**

USE (4) 1/2" x 2" A325 BOLTS H0603 / NUTS H0300  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

**18**

BA0080

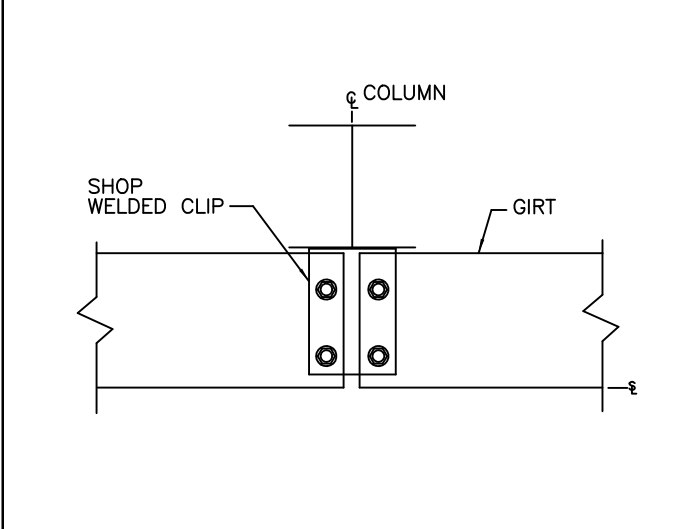


**WELDED CLIP @ ENDWALL RAFTER**

USE (4) 1/2" x 1 1/4" A307 BOLTS H0500 / NUTS H0400  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

**A7**

BB0050



**SIMPLE SPAN GIRT TO COLUMN**

USE (4) 1/2" x 1 1/4" A307 BOLTS H0500 / NUTS H0400  
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

**H4**

BA0070

DATE	08/12/2023
CHK	RHB
ENG	
ISSUE	
FINAL	

Engineering Performed By:  
Nucor Corporation  
200 Whetstone Rd.  
Swansea, SC 29460  
COA# F-1470

PROJECT NAME  
**CAMPBELL BASEBALL OPEN SHELTER**  
76 UPCHURCH LANE, BUJES CREEK, NC 27506

CUSTOMER NAME  
**SOUTHEASTERN CONSTRUCTION OF BUJES CREEK, LLC**  
BUJES CREEK, NC 27506

JOB NUMBER  
**A23B0716A**

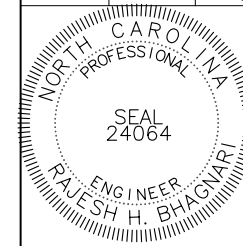
SHEET TITLE  
**CERTIFIED ERECTION DETAILS**

PROJECT NAME  
**CAMPBELL BASEBALL OPEN SHELTER**  
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JOB NUMBER  
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SHEET TITLE  
**CERTIFIED ERECTION DETAILS**



The seal remains only in the hands of the professional engineer whose name and seal are on the drawings. The seal is not to be used on drawings prepared by others. The seal is not to be used on drawings prepared by others. The seal is not to be used on drawings prepared by others.

SEAL  
24064  
ENGINEER  
RAJESH H. BHAGWARI

SHEET  
**CED1**

**TYPICAL FIELD WELD REQUIREMENTS ERECTOR NOTE:**  
(UNLESS NOTED OTHERWISE ON DRAWINGS)

ALL FIELD WELDING MUST BE PERFORMED BY AWS/CWB CERTIFIED WELDERS WHO ARE QUALIFIED FOR THE WELDING PROCESSES AND POSITIONS INDICATED. ALL WORK MUST BE COMPLETED AND INSPECTED IN ACCORDANCE WITH THE APPLICABLE AWS/CWB SPECIFICATIONS. WELD ELECTRODES USED FOR THE SMAW (OR STICK) WELD PROCESS MUST BE 70 KSI/483 MPa MATERIAL AND LOW HYDROGEN CONTENT.

**GALVANIZED STEEL FIELD WELDING RECOMMENDATIONS**

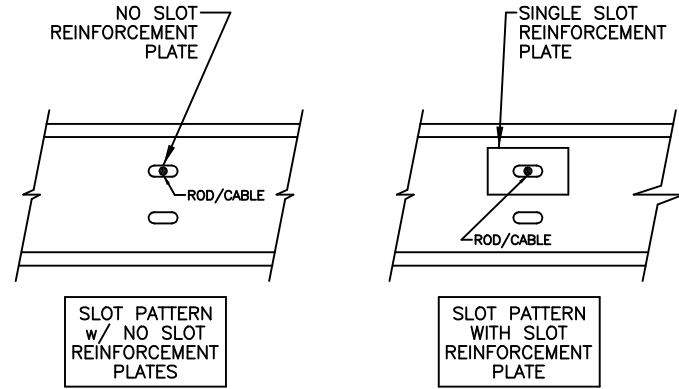
**PREPARATION OF WELD AREA**  
AWS D-19.0, WELDING ZINC COATED STEEL, CALLS FOR WELDS TO BE MADE ON STEEL THAT IS FREE OF ZINC IN THE AREA TO BE WELDED. FOR GALVANIZED STRUCTURAL COMPONENTS, THE ZINC COATING SHOULD BE REMOVED AT LEAST ONE TO FOUR INCHES (2.5-10 cm) FROM EITHER SIDE OF THE INTENDED WELD ZONE AND ON BOTH SIDES OF THE WORKPIECE. GRINDING BACK THE ZINC COATING IS THE PREFERRED AND MOST COMMON METHOD; BURNING THE ZINC AWAY OR PUSHING BACK THE MOLTEN ZINC FROM THE WELD AREA ARE ALSO EFFECTIVE. **TOUCH-UP OF WELD AREA**  
WELDING ON GALVANIZED SURFACES DESTROYS THE ZINC COATING ON AND AROUND THE WELD AREA. RESTORATION OF THE AREA WILL BE PERFORMED IN ACCORDANCE WITH ASTM A 780, STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS, WHICH SPECIFIES THE USE OF PAINTS CONTAINING ZINC DUST, ZINC-BASED SILDERS OR SPRAYED ZINC. ALL TOUCHUP AND REPAIR METHODS ARE CAPABLE OF BUILDING A PROTECTIVE LAYER TO THE THICKNESS REQUIRED BY ASTM A 780.

**SAFETY & HEALTH**  
WHEN WELDING DIRECTLY ON GALVANIZED STEEL IS UNAVOIDABLE, OSHA PERMISSIBLE EXPOSURE LIMITS (PELS) MAY BE EXCEEDED AND EVERY PRECAUTION, INCLUDING HIGH-VELOCITY CIRCULATING FANS WITH FILTERS, AIR RESPIRATORS AND FUME-EXTRACTION SYSTEMS SUGGESTED BY AWS, SHOULD BE EMPLOYED. FUMES FROM WELDING GALVANIZED STEEL CAN CONTAIN ZINC, IRON, AND LEAD. FUME COMPOSITION TYPICALLY DEPENDS ON THE COMPOSITION OF THE MATERIALS USED, AS WELL AS THE HEAT APPLIED BY THE PARTICULAR WELDING PROCESS. IN ANY EVENT, GOOD VENTILATION MINIMIZES THE AMOUNT OF EXPOSURE TO FUMES. PRIOR TO WELDING ON ANY METAL, CONSULT ANSI/ASC Z-49.1, SAFETY IN WELDING, CUTTING AND ALLIED PROCESSES, WHICH CONTAINS INFORMATION ON THE PROTECTION OF PERSONNEL AND THE GENERAL AREA, VENTILATION AND FIRE PREVENTION. INFORMATION COURTESY OF AMERICAN GALVANIZERS ASSOCIATION

**TYPICAL FIELD WELD REQUIREMENTS**

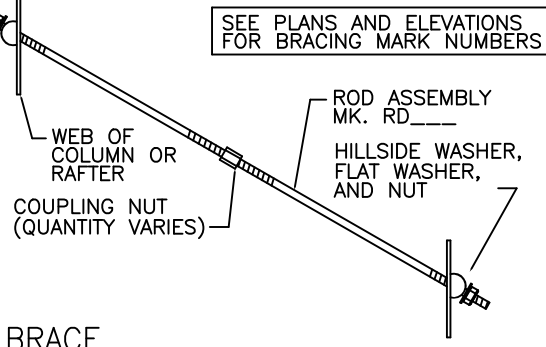
NAA0040

**ERECTOR NOTE:**  
WHEN SLOT REINFORCEMENT PLATES ARE PRESENT IN 12" COLD-FORMED MEMBERS, ROD/CABLE BRACE MUST UTILIZE REINFORCED SLOT LOCATION.



**12" COLD-FORMED MEMBER**

ROD DIAMETER	MARK NUMBER	HILLSIDE WASHERS	FLAT WASHERS	A307/A325 NUTS	COUPLING NUTS
5/8" ø	RD05--	(2) H0930	(2) H0210	(2) H0310	H0810
3/4" ø	RD06--	(2) H0930	(2) H0220	(2) H0320	H0820
7/8" ø	RD07--	(2) H0930	(2) H0230	(2) H0325	H0830
1" ø	RD08--	(2) H0960	(2) H0240	(2) H0330	H0840
1 1/8" ø	RD09--	(2) H0960	(2) H0250	(2) H0450	H0850
1 1/4" ø	RD10--	(2) H0960	(2) H0260	(2) H0340	H0860

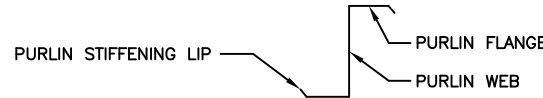


**ROD BRACE**

AF0010

Q3

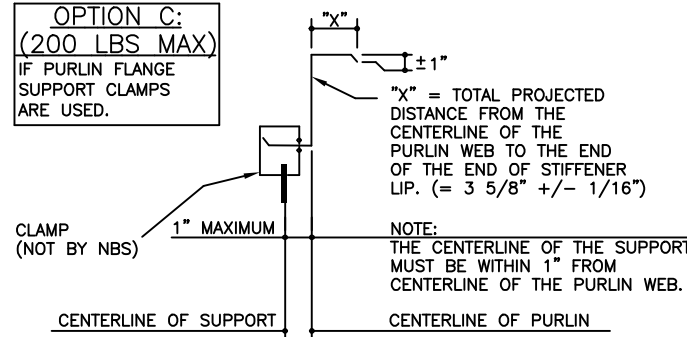
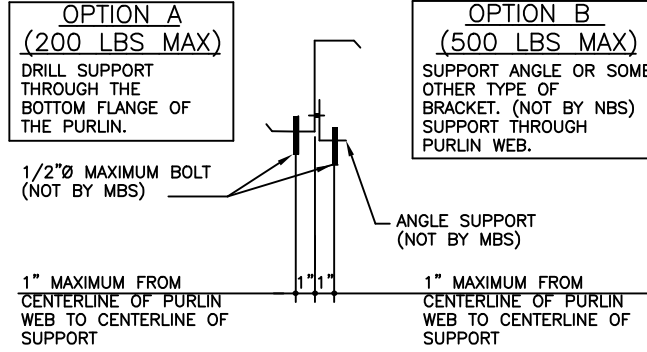
COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILINGS, ETC. ARE SUSPENDED FROM ROOF MEMBERS, CONSULT ENGINEER OF RECORD IF THESE CONCENTRATED LOADS EXCEED 500 POUNDS (USING THE WEB MOUNT DETAIL) OR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



**GENERAL RESTRICTION:**

UNDER NO CIRCUMSTANCES CAN THE PURLIN STIFFENING LIP BE FIELD MODIFIED FROM THE FACTORY SUPPLIED CONDITION. ALSO DO NOT HANG ANYTHING FROM PURLIN STIFFENING LIP.

**OPTIONS FOR SUPPORT ATTACHMENTS**



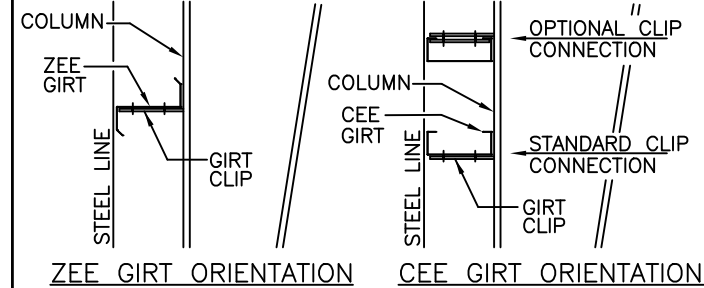
**PURLIN SUPPORT METHODS**

B0010

NBD0130

**ERECTOR NOTE:** UNLESS SPECIFICALLY NOTED OTHERWISE, STANDARD ZEE GIRT ORIENTATION IS TO HAVE THE GIRT TOED DOWN AT THE STEEL LINE AS SHOWN IN THE DETAIL BELOW.

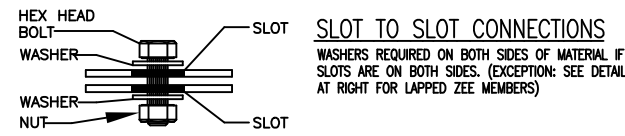
UNLESS SPECIFICALLY NOTED OTHERWISE, STANDARD CEE GIRT ORIENTATION IS TO HAVE THE GIRT TOED UP AS SHOWN IN THE DETAIL BELOW. STANDARD CLIP ATTACHMENT IS BELOW THE GIRT, HOWEVER SOME DETAILS REQUIRE THAT THE CLIP BE ABOVE THE GIRT. (REFER TO THE GIRT DETAILS ON THE ERECTION DRAWINGS FOR REQUIREMENTS) BOTH CLIP ATTACHMENTS ARE SHOWN IN THE DETAIL BELOW.



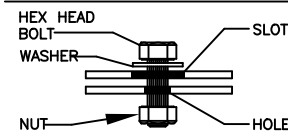
**ZEE GIRT ORIENTATION CEE GIRT ORIENTATION STANDARD GIRT ORIENTATION DETAIL**

NOTE: BYPASS GIRT CONDITION IS SHOWN FOR REFERENCE ONLY. YOUR PROJECT MAY HAVE FLUSH OR INSET GIRTS.

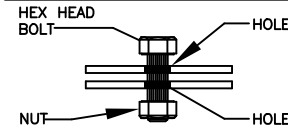
CC0005



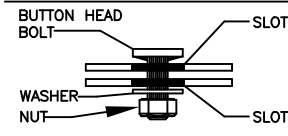
**SLOT TO SLOT CONNECTIONS**  
WASHERS REQUIRED ON BOTH SIDES OF MATERIAL IF SLOTS ARE ON BOTH SIDES. (EXCEPTION: SEE DETAIL AT RIGHT FOR LAPPED ZEE MEMBERS)



**SLOT TO HOLE CONNECTIONS**  
ONE WASHER REQUIRED ON SLOTTED SIDE ONLY.



**HOLE TO HOLE CONNECTIONS**  
NO WASHERS REQUIRED WHEN SLOTS ARE NOT USED.



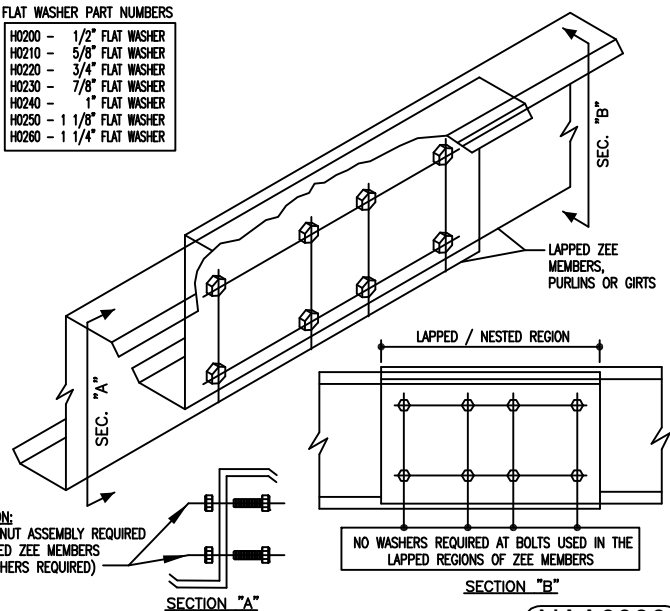
**SLOT TO SLOT CONNECTIONS**  
WASHER REQUIRED AT NUT SIDE ONLY FOR BUTTON HEAD BOLTS. (BUTTON HEAD BOLTS HAVE MATERIAL GRABBING FINS UNDER THE HEAD, A WASHER IS NOT NEEDED ON BOLT HEAD SIDE).

**WASHER REQUIREMENTS ERECTOR NOTE**

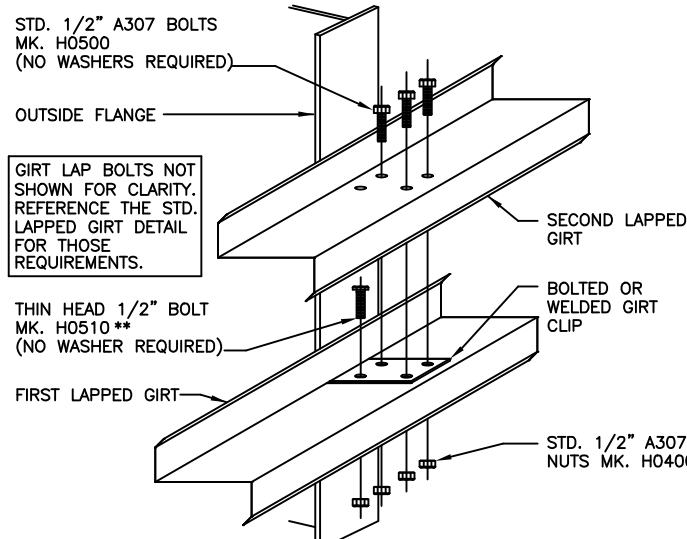
(UNLESS NOTED OTHERWISE ON DRAWINGS)

**FLAT WASHER PART NUMBERS**

H0200 - 1/2" FLAT WASHER
H0210 - 5/8" FLAT WASHER
H0220 - 3/4" FLAT WASHER
H0230 - 7/8" FLAT WASHER
H0240 - 1" FLAT WASHER
H0250 - 1 1/8" FLAT WASHER
H0260 - 1 1/4" FLAT WASHER



NAA0030



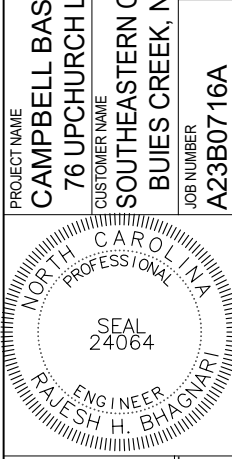
**LAPPED GIRT DETAIL**  
LAPPED GIRTS @ INTERIOR BAY COLUMNS  
\*\* THE THIN HEAD 1/2" A307 BOLT MUST BE INSTALLED INTO THE FIRST GIRT AND CLIP OF A LAPPED CONDITION. THE BOLT/NUT ASSEMBLY MUST BE WRENCH TIGHT PRIOR TO THE SECOND LAPPED GIRT BEING INSTALLED.

CC0015

DATE	ISSUE	FINALS
08/12/2023		

Engineering Performed By:  
Nucor Corporation  
200 Whetstone Rd.  
Swansea, SC 29460  
COA# F-1470

PROJECT NAME  
CAMPBELL BASEBALL OPEN SHELTER  
76 UPCHURCH LANE, BUJES CREEK, NC 27506  
CUSTOMER NAME  
SOUTHEASTERN CONSTRUCTION OF BUJES CREEK, LLC  
BUJES CREEK, NC 27506  
JOB NUMBER  
A23B0716A  
SHEET TITLE  
CERTIFIED ERECTION DETAILS

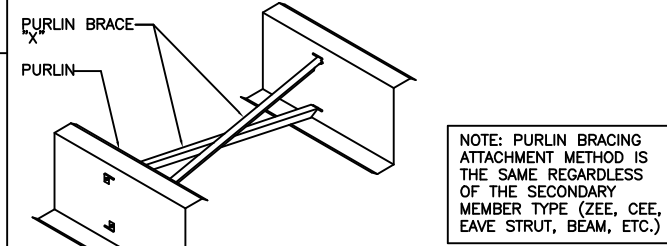
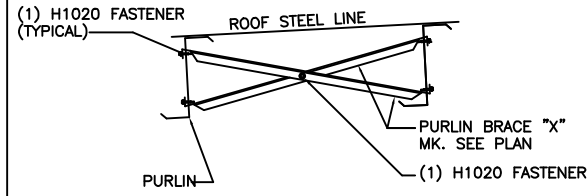


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SHEET  
CED2

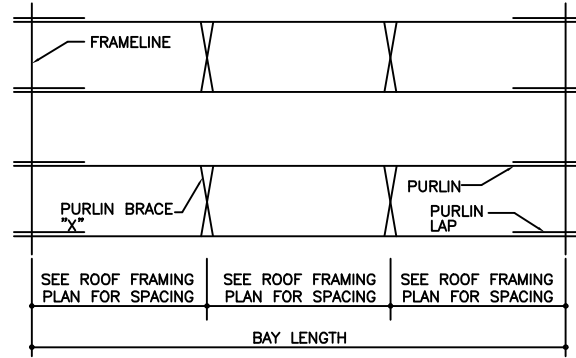
**INSTALLATION INSTRUCTIONS**

- 1) FOR PURLIN BRACE "X", INSERT ANGLES "BACK-TO-BACK" INTO THE FACTORY PUNCHED SLOTS. BEND TABS AS SHOWN AND FASTEN THROUGH TAB WITH (1) H1020 FASTENER PER END.
- 2) CONNECT PURLIN BRACE "X" AT THE ANGLE INTERSECTION WITH (1) H1020 FASTENER.
- 3) PURLIN BRACING IS NOT TO DISTORT OR ALTER PURLINS FROM THEIR INTENDED SHAPE OR LOCATION.
- 4) SEE DETAILS BELOW FOR ADDITIONAL INFORMATION WHEN ATTACHING TO ALTERNATE FRAMING MEMBERS.



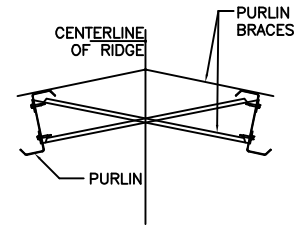
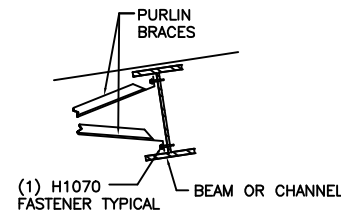
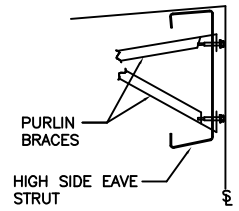
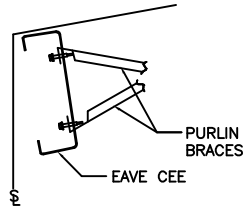
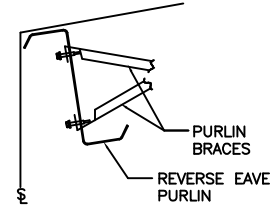
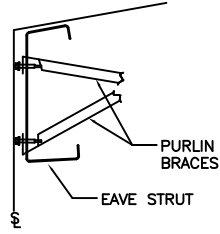
**PLAN VIEW OF PURLIN BRACING LOCATIONS PER BAY**

- 1) SEE ROOF FRAMING PLAN(S) FOR PURLIN BRACE MARK NUMBERS, QUANTITIES AND LOCATIONS.
- 2) (2) ROWS OF PURLIN BRACING IS SHOWN BELOW FOR REFERENCE ONLY, ACTUAL NUMBER OF ROWS MAY VARY PER BAY AND PER PROJECT, SEE ROOF FRAMING PLAN(S) FOR SPACING.



**PURLIN BRACING ATTACHMENT METHODS**

ANGLE\_130



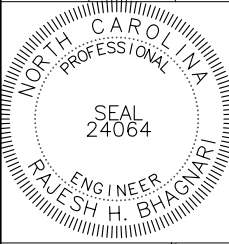
NOTE: IF CHANNEL, IT MAY BE TOED UP OR DOWN.

BE0010

DATE	08/12/2023
ENG	RHB
CHK	BLS
OWN	MBS
ISSUE	FINALS

Engineering Performed By:  
Nucor Corporation  
200 Whetstone Rd.  
Swansea, SC 29460  
COA# F-1470

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CAMPBELL BASEBALL OPEN SHELTER  
76 UPCHURCH LANE, BUIES CREEK, NC 27506  
CUSTOMER NAME  
SOUTHEASTERN CONSTRUCTION OF BUIES CREEK, LLC  
BUIES CREEK, NC 27506  
JOB NUMBER  
A23B0716A



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SHEET  
CED3

### DESIGN AND PERFORMANCE CRITERIA

**ROOF SYSTEM**  
THE ROOF SYSTEM CONSISTS OF 24 GAUGE PANELS WITH A NOMINAL COVERAGE OF 1'4" AND A PANEL SEAM THAT IS 2 1/2" OR 3 1/2" HIGH DEPENDING ON CLIP TYPE USED. REFER TO THE DETAILS AND SECTIONS FOR SPECIFIC PANEL CLIP TYPE.

**PANEL CLIP SPACING**  
THE ROOF SYSTEM USES A CLIP TO ATTACH THE PANELS TO THE ROOF SECONDARY MEMBERS. PANEL CLIP SPACING REQUIREMENTS AS A STANDARD ARE REQUIRED AT EVERY PURLIN AND/OR ROOF JOIST.

**PANEL CLIP FASTENING REQUIREMENTS**  
STANDARD CLIP FASTENERS ARE DESIGNED TO FASTEN TO A STEEL STRUCTURAL MEMBER OF .060" MINIMUM THICKNESS (16 GA.) A MINIMUM OF TWO FASTENERS ARE REQUIRED TO ENGAGE THE STRUCTURAL MEMBER AT EVERY PANEL CLIP LOCATION. IN CERTAIN INSTANCES, THREE FASTENERS MAY BE REQUIRED PER CLIP REQUIRED. LOOK ON CHART AT RIGHT AND IN THE ERECTION DRAWINGS FOR YOUR SPECIFIC FASTENER REQUIREMENTS. FASTENER PULLOUT VALUES ARE DEPENDENT UPON PROJECT LOCATION, SIZE, BUILDING CODE AND LOADING.

**ROOF TOP UNITS AND CURB SUPPORTS**  
THE ROOF SYSTEM IS ELEVATED ABOVE THE TOP OF THE ROOF SECONDARY STRUCTURAL MEMBERS. THE ROOF CURB SUB-FRAMING IS LEVEL WITH THE SECONDARY STRUCTURAL MEMBERS. REFER TO THE DETAILS FOR PROPER JAMB LOCATIONS AND DIMENSIONS.

THE ROOF SYSTEM IS DESIGNED AS A FLOATING SYSTEM. CURB FRAMING AND FLASHING MUST BE DESIGNED ACCORDINGLY TO ALLOW THE CURB SYSTEM TO FLOAT WITH THE ROOF DURING THERMAL EXPANSION AND CONTRACTION. ROOF CURBS SHALL NOT SPAN THE RIDGE OF A BUILDING.

**INSULATION REQUIREMENTS**  
INSULATION IS RECOMMENDED TO BE USED IN ALL ROOF APPLICATIONS TO AVOID PROBLEMS WITH CONDENSATION FORMING ON THE UNDERSIDE OF THE SHEETING. THIS ALSO PROVIDES A BUFFER BETWEEN THE PURLINS AND THE ROOF TO ELIMINATE NOISE AND POSSIBLE DAMAGE DUE TO METAL-TO-METAL CONTACT. NOISE REDUCING FOAM TAPE CAN BE SUPPLIED FOR USE IN LIMITED APPLICATIONS (CANOPIES, ETC.) WHEN INCLUDED AS PART OF THE ROOF ORDER. REFER TO THE DETAILS FOR FOAM TAPE REQUIREMENTS.

**PAINTED ROOF**  
PAINTED Loc Seam ROOF PANELS ARE OFTEN PROVIDED BY MBS. IN THIS CASE, GUTTER BRACKETS AND OUTSIDE CLOSURES WILL BE PAINTED TO MATCH THE ROOF COLOR AS A STANDARD.

### MASTIC APPLICATION

**TEMPERATURE EXTREMES**  
TEMPERATURE EXTREMES MUST BE CONSIDERED DURING INSTALLATION OF THE ROOF DUE TO THE SENSITIVITY OF MASTICS. THE RECOMMENDED INSTALLATION TEMPERATURE RANGE IS 20-120 DEGREES FAHRENHEIT. AT COLDER TEMPERATURES, THE MASTIC STIFFENS RESULTING IN LOSS OF ADHESION AND COMPRESSIBILITY. AT HOTTER TEMPERATURES, THE MASTIC BECOMES TOO SOFT FOR PRACTICAL HANDLING. ON COLD BUT SUNNY DAYS, THE PANEL SURFACE MAY BECOME WARM ENOUGH TO ACCEPT THE APPLICATION OF HEATED MASTIC EVEN THOUGH THE AIR TEMPERATURE IS BELOW 20 DEGREES FAHRENHEIT.

WHEN OVERNIGHT TEMPERATURES FALL BELOW FREEZING, THE MASTIC SHOULD BE STORED IN A HEATED ROOM SO IT WILL BE WARM ENOUGH TO USE THE FOLLOWING DAY. ON HOT DAYS, THE MASTIC CARTONS SHOULD BE STORED OFF THE ROOF IN A COOL AND SHADED AREA. WHILE ON THE ROOF, MASTIC ROLLS SHOULD BE KEPT SHADED UNTIL ACTUAL USE.

IN VERY COLD WEATHER, IT IS RECOMMENDED THAT THE FASTENERS BE TIGHTENED SLOWLY AND ONLY TIGHT ENOUGH THAT THE MASTIC IS IN FULL CONTACT WITH THE PANEL OR FLASHING. THEN ON THE NEXT SUNNY DAY, COMPLETE THE TIGHTENING PROCESS AFTER THE SUN WARMIS THE PANEL AND FLASHING SURFACES.

**CONTAMINATION**  
TO ASSURE PROPER ADHESION AND SEALING, THE MASTIC MUST HAVE COMPLETE CONTACT WITH ADJOINING SURFACES. CONTAMINANTS SUCH AS WATER OIL, DIRT AND DUST MUST PREVENT SUCH CONTACT. THE PANEL AND FLASHING SURFACES MUST BE DRY AND THOROUGHLY CLEANED OF ALL CONTAMINANTS. BEFORE APPLYING TAPE MASTIC, THE MASTIC SHOULD BE CHECKED FOR CONTAMINANTS. IF THE MASTIC SURFACES ARE CONTAMINATED, IT MUST NOT BE USED.

DURING COOL WEATHER, CONDENSATION OR LIGHT MIST CAN ACCUMULATE ON THE PANEL AND FLASHING SURFACE AND NOT BE EASILY NOTICED. IT IS RECOMMENDED THAT THE MASTICS ALWAYS BE KEPT UNDER PROTECTIVE COVER AND THAT THE PANEL AND FLASHING SURFACES BE WIPED DRY IMMEDIATELY BEFORE INSTALLATION.

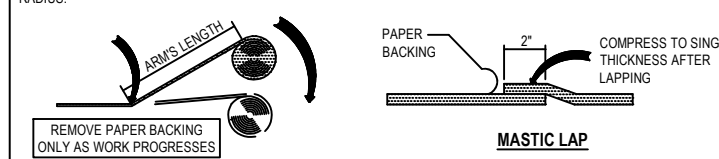
TAPE MASTIC IS PROVIDED WITH A PROTECTIVE PAPER TO REDUCE CONTAMINATION. INCOMPLETE REMOVAL OF THE PROTECTIVE PAPER WILL PREVENT THE MASTIC ADHESION TO THE PANEL OR FLASHING SURFACES. ALWAYS CHECK THAT THE PROTECTIVE PAPER IS COMPLETELY REMOVED. DO NOT REMOVE THE PROTECTIVE PAPER UNTIL IMMEDIATELY BEFORE THE PANEL OR FLASHING IS INSTALLED OVER THE MASTIC.

**COMPRESSION**  
TO ASSURE PROPER COMPRESSION AND SEAL, THE TAPE MASTIC MUST BE COMPRESSED BETWEEN THE PANEL AND FLASHING SURFACES WITH FIRM AND UNIFORM PRESSURE. IN MOST CASES, THE REQUIRED PRESSURE IS APPLIED BY THE CLAMPING ACTION OF SCREWS PULLING THE ADJOINING SURFACES TOGETHER. HOWEVER, THE TAPE SEALANT'S RESISTANCE TO PRESSURE BECOMES GREATER IN COLD WEATHER.

DURING COLD WEATHER, THE FASTENERS MUST BE TIGHTENED SLOWLY TO ALLOW THE MASTIC TIME TO COMPRESS. IF THE FASTENERS ARE TIGHTENED TOO FAST, THE FASTENERS MAY STRIP OUT BEFORE THE MASTIC COMPRESSES ADEQUATELY, OR THE PANEL OR FLASHING MAY DEFORM IN THE IMMEDIATE AREA OF THE FASTENER, LEAVING THE REST OF THE MASTIC INSUFFICIENTLY COMPRESSED.

**INSIDE CORNERS**  
AN INSIDE RADIUS, SUCH AS WHERE THE PANEL FLAT MEETS A RIB, IS USUALLY THE MOST CRITICAL AREA TO SEAL. A COMMON MISTAKE FOR THE INSTALLER IS TO BRIDGE THE MASTIC ACROSS THE INSIDE RADIUS.

WHEN THE LAPPING PANEL OR FLASHING IS PUSHED INTO PLACE, THE BRIDGED MASTIC IS STRETCHED AND THINNED. THE MASTIC MAY THEN BE TOO THIN TO ADEQUATELY SEAL THIS CRITICAL AREA. WHEN TAPE MASTIC IS APPLIED AT AN INSIDE RADIUS, IT IS RECOMMENDED THAT THE MASTIC BE FOLDED BACK, THEN PUSH THE MASTIC FOLD INTO THE RADIUS.



### ERECTORS RESPONSIBILITY

**REGULATIONS**  
REGULATIONS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ACT, LOCAL, STATE, AND/OR FEDERAL AGENCIES SHOULD BE ADHERED TO AT ALL TIMES. MBS IS NOT RESPONSIBLE FOR INJURY, DAMAGE, OR FAILURE, WHICH MAY BE THE RESULT FROM FAILING TO MEET ANY OF THESE REGULATIONS.

IN COMPLIANCE WITH THE HAZARD COMMUNICATION RULE 1910:1200, MATERIAL SAFETY DATA SHEETS (MSDS) HAVE BEEN PROVIDED FOR YOUR USE AND SAFETY. THESE DATA SHEETS SHOULD BE MADE AVAILABLE TO ALL PERSONNEL THAT COME IN CONTACT WITH THESE PRODUCTS. THESE DATA SHEETS WILL GIVE YOU THE NECESSARY INFORMATION TO PROPERLY HANDLE SUCH MATERIALS AND WHAT TO DO IN CASE OF AN EMERGENCY. (THE MSDS SHEETS ARE LOCATED ONLINE AND ARE AVAILABLE UPON REQUEST).

THE ERECTOR OF THE ROOF SYSTEM IS RESPONSIBLE FOR THE SAFE EXECUTION OF THIS DETAIL. THESE INSTRUCTIONS ARE INTENDED TO DESCRIBE THE SEQUENCE AND PROPER PLACEMENT OF PARTS. THEY ARE NOT INTENDED TO PRESCRIBE COMPREHENSIVE SAFETY PROCEDURES. THE PROCEDURES IN THIS DETAIL ARE BELIEVED TO BE RELIABLE. HOWEVER, MBS SHALL NOT BE RESPONSIBLE FOR INJURY, DAMAGE, OR FAILURE DUE TO THE MISAPPLICATION OF THESE PROCEDURES, IMPROPER ERECTION TECHNIQUES, OR NEGLIGENCE.

**WALKING AND WORKING ON ROOF PANELS**  
DO NOT PLACE BUNDLES OF PANELS ON THE ROOF STRUCTURE WITHOUT FIRST VERIFYING THE STRUCTURE WILL SAFELY SUPPORT THE CONCENTRATED WEIGHT OF THE PANELS AND THE WEIGHT OF THE INSTALLATION CREW. SOME ROOF STRUCTURES MAY NOT BE DESIGNED TO SUPPORT THE WEIGHT OF A FULL PANEL BUNDLE WITHOUT ADDITIONAL STRUCTURE SUPPORT.

DO NOT USE A ROOF PANEL AS A WORKING PLATFORM. AN UNSECURED PANEL COULD COLLAPSE UNDER THE WEIGHT OF A PERSON STANDING BETWEEN PURLINS OR AT THE PANEL END.

DO NOT WALK ON THE LAST INSTALLED PANEL RUN, AS THE UNSECURED EDGE COULD COLLAPSE UNDER A PERSON'S WEIGHT. WHEN INSTALLING CLIPS OR MAKING END LAP CONNECTIONS, ETC., STAND WHERE THE ROOF STRUCTURAL WILL SUPPORT YOUR WEIGHT.

AN APPROVED AND SAFE WALKING PLATFORM SHOULD BE USED IN HIGH TRAFFIC AREAS TO PREVENT THE ROOF PANEL FROM BEING DEFORMED, SCRATCHED, OR SCUFFED.

**SAFETY EQUIPMENT**  
THE USE OF SAFETY EQUIPMENT FOR THE ROOF PANEL INSTALLATION IS RECOMMENDED AT ALL TIMES DURING THE INSTALLATION PROCESS. HOWEVER, WHEN USING LANYARDS, ENSURE THAT THE CLASP, BELT HOOKS AND WIRE CABLES ARE COVERED IN SUCH A MANNER THAT THEY WILL NOT SCRATCH THE PANEL SURFACE IF ACCIDENTALLY DRAGGED ALONG THE PANEL.

**CREW SIZE**  
THE LENGTH OF THE INDIVIDUAL ROOF PANELS SHOULD BE CONSIDERED WHEN DETERMINING CREW SIZE. IT IS RECOMMENDED THAT UNDER NORMAL CONDITIONS, THERE BE ONE PERSON FOR EVERY TEN FEET OF PANEL LENGTH, PLUS ONE.

**PANEL OVERHANG**  
DO NOT STAND ON THE END OF UNSUPPORTED (CANTILEVERED) PANELS AT THE EAVE OR RIDGE. STANDING ON THE CANTILEVER PORTION MAY RESULT IN PANEL COLLAPSE.

**POINT LOADS**  
WHEN PROPERLY SUPPORTED BY THE STRUCTURAL STEEL, PANELS ARE DESIGNED TO SUPPORT UNIFORM LOADS, WHICH ARE EVENLY DISTRIBUTED OVER THE PANEL SURFACES. POINT LOADS THAT OCCUR IN SMALL OR CONCENTRATED AREAS, SUCH AS HEAVY EQUIPMENT, LADDER, OR PLATFORM FEET, ETC., MAY CAUSE PANEL DEFORMATION OR EVEN PANEL COLLAPSE.

**SLICK SURFACES**  
PANEL SURFACES AND STRUCTURAL STEEL SURFACES ARE HARD, SMOOTH, AND NONABSORBENT, WHICH CAUSES THESE SURFACES TO BE VERY SLICK WHEN WET OR COVERED WITH SNOW OR ICE. EVEN BLOWING SAND OR HEAVY DUST CAN MAKE THESE SURFACES DIFFICULT TO WALK ON WITHOUT SLIPPING.

UNPAINTED PANEL SURFACES ARE OFTEN COATED WITH OIL TO ACCOMMODATE THE PANEL-FABRICATION PROCESS. ALTHOUGH DESIGNED TO WASH AWAY OR EVAPORATE DURING NORMAL WEATHER, THE OIL ON NEW PANELS CAN BE EXTREMELY SLICK, ESPECIALLY DURING PERIODS OF LIGHT RAIN AND DEW. CAUTION MUST BE EXERCISED TO PREVENT SLIPPING AND FALLING ONTO THE ROOF SURFACE OR EVEN SLIDING OFF THE ROOF. NON-SLIP FOOTWEAR IS A NECESSITY AND NON-SLIP WORKING PLATFORMS ARE RECOMMENDED.

**ELECTRICAL CONDUCTANCE**  
METAL PANELS ARE EXCELLENT ELECTRICAL CONDUCTORS. A COMMON CAUSE OF INJURY IS THE CONTACT OF METAL PANELS WITH POWER LINES DURING HANDLING AND INSTALLATION. THE LOCATION OF ALL POWER LINES MUST BE NOTED AND, IF POSSIBLE, FLAGGED. THE INSTALLATION PROCESS MUST BE ROUTED TO AVOID ACCIDENTAL CONTACT WITH ALL POWER LINES AND HIGH VOLTAGE SERVICES AND EQUIPMENT. ALL TOOLS AND POWER CORDS MUST BE PROPERLY INSULATED AND GROUNDED AND THE USE OF APPROVED GROUND FAULT CIRCUIT BREAKERS IS RECOMMENDED.

**FALSE SECURITY OF INSULATION**  
BLANKET AND RIGID BOARD INSULATION BLOCK THE INSTALLER'S VIEW OF THE GROUND BELOW THE ROOF. SERIOUS INJURY CAN OCCUR WHEN THE INSTALLER GETS A FALSE SENSE OF SECURITY BECAUSE HE CANNOT SEE THE GROUND AND STEPS THROUGH THE INSULATION.

**SHARP EDGES**  
SOME EDGES OR PANELS AND FLASHING ARE RAZOR SHARP AND CAN CAUSE SEVERE CUTS IF PROPER PROTECTIVE HAND GEAR IS NOT WORN. BE CAREFUL NOT TO INJURE OTHERS WHILE MOVING PANELS AND FLASHING.

**COORDINATION WITH OTHER TRADES**  
SUPPORTS FOR THE ROOF SYSTEM SHALL BE PROVIDED AND ARE REQUIRED AS SHOWN IN THE SECTIONS AND AS NOTED IN THESE SPECIFICATIONS. ALL NECESSARY CLEARANCE DIMENSIONS FOR PROPER ELEVATIONS RELATIVE TO THE ROOF PANELS HAVE BEEN SHOWN. THE ERECTOR SHALL BE RESPONSIBLE FOR COORDINATING THESE DIMENSIONAL REQUIREMENTS WITH OTHER TRADES ASSOCIATED WITH THE BUILDING ROOF SYSTEM.

**ERECTION CARE**  
THE ERECTOR MUST BE SKILLED IN THE ERECTION OF METAL BUILDING SYSTEMS AND IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, FEDERAL AND STATE CONSTRUCTION AND SAFETY REGULATIONS INCLUDING OSHA REGULATIONS AS WELL AS ANY APPLICABLE REQUIREMENTS OF LOCAL, NATIONAL OR INTERNATIONAL UNION RULES OR PRACTICES. THE ERECTOR REMAINS SOLELY RESPONSIBLE FOR THE SAFETY AND APPROPRIATENESS OF ALL TECHNIQUES AND METHODS UTILIZED BY ITS CREWS IN THE ERECTION OF THE METAL BUILDING SYSTEM AND/OR THE ROOF SYSTEM. THE ERECTOR IS ALSO RESPONSIBLE FOR SUPPLYING ANY SAFETY DEVICES SUCH AS SCAFFOLDS, RUNWAYS, NETS, ETC. WHICH MAY BE REQUIRED TO SAFELY ERECT THE METAL BUILDING SYSTEM AND/OR ROOF SYSTEM.

THE ERECTOR OF THE ROOF SYSTEM SHALL EXERCISE GREAT CARE AND ATTENTION TO THE DETAILS AS SHOWN ON THESE DRAWINGS TO INSURE A SECURE AND PROPER FIT OF ALL COMPONENTS. MBS SHALL NOT BE RESPONSIBLE FOR SUPERVISING AND/OR COORDINATING THE ERECTION OF THE ROOF SYSTEM WITH OTHER TRADES.

DUE CONSIDERATION MUST BE GIVEN BY THE ERECTOR TO THE EFFECTS OF THERMAL EXPANSION AND CONTRACTION WHEN ERECTING A ROOF TIE-IN TO AN EXISTING STRUCTURE TO INSURE A SAFE, SECURE, WEATHER TIGHT CONDITION. FLASHING FOR TIE-INS TO EXISTING BUILDINGS IS TYPICALLY NOT INCLUDED AS PART OF THE MATERIAL PROVIDED BY MBS. REFER TO THE SECTIONS/DETAILS FOR SPECIFIC MATERIALS PROVIDED BY MBS.

### THERMAL BLOCKS

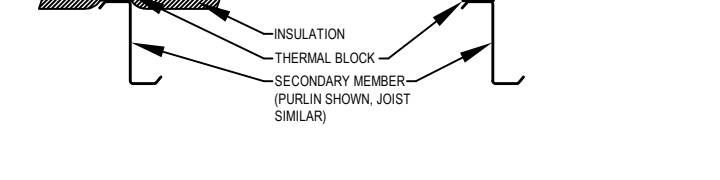
**PURPOSE**  
THERMAL BLOCKS ARE USED IN BOTH INSULATED AND UN-INSULATED CONDITIONS. THEY PROVIDE IMPROVED THERMAL PERFORMANCE WERE INSULATION HAS BEEN COMPRESSED AT THE SECONDARY MEMBERS UNDER THE PANEL. THEY ALSO PROVIDE SUPPORT TO THE PANEL AND REDUCE PANEL FLUTTERING AND RUMBLE IN UN-INSULATED CONDITIONS. UN-INSULATED CONDITIONS UTILIZE THERMAL BLOCKS OR FOAM SPACERS THAT HAVE ADHESIVE TO ADHERE TO THE SECONDARY MEMBER TO PREVENT THEM FROM FALLING OUT OF PLACE.

**LOCATIONS**  
THERMAL BLOCKS OR FOAM SPACERS ARE TO BE USED OVER ANY SECONDARY MEMBER WITH THE EXCEPTION OF THE EAVE MEMBER WHERE THE EAVE PLATE IS LOCATED.

INSULATED ROOF				
INSULATION	THICK	BLOCK MK #	THICK	CLIP
R7	2"	N/A	N/A	SHORT
R10	3 3/8"	N/A	N/A	SHORT
R11	3 3/4"	N/A	N/A	SHORT
R13	4 3/8"	N/A	N/A	SHORT
R13	4 3/8"	H4400	13/16"	TALL
R16	5 1/4"	H4400	13/16"	TALL
R19	6 3/8"	H4400	13/16"	TALL
R25	8"	H4400	13/16"	TALL

UN-INSULATED ROOF		
BLOCK MK #	THICK	CLIP
H3310	1/2"	SHORT
H3305	1 1/2"	TALL
FIELD CUT H3305 TO LENGTH FOR PROPER FITTING BETWEEN PANEL CLIPS		

**NOTE:** PANEL CLIPS NOT SHOWN FOR CLARITY



### ROOF SYSTEM COMPONENT WITH DETAILING

**DEFINITION**  
COMPONENTS WITH DETAILING DEFINITION IS A CASE WHERE MBS IS PROVIDING THE ROOF SYSTEM TO BE USED IN CONJUNCTION WITH ANOTHER STRUCTURE. MBS REFERS TO THAT AS A "COMPONENTS WITH DETAILING." THIS SIMPLY MEANS THAT MBS SHALL CALCULATE THE QUANTITIES AND LENGTHS FOR THE MATERIAL REQUIRED. MBS IS PERFORMING NO ENGINEERING STUDY OF THE EXISTING STRUCTURE. THE ENGINEER OF RECORD ON THE PROJECT SHALL BE RESPONSIBLE FOR COORDINATING THE ROOF SYSTEM WITH THE OTHER TRADES OF THE PROJECT TO INSURE A SAFE, QUALITY AND PROPER APPLICATION OF THE ROOF SYSTEM.

**DIAPHRAGM**  
THE ROOF IS DESIGNED TO ACCOMMODATE THERMAL EXPANSION AND CONTRACTION AND WILL NOT ACT AS A DIAPHRAGM FOR RESISTING LATERAL LOAD FORCES OR PROVIDING LATERAL STABILITY TO THE ROOF STRUCTURAL MEMBERS. DUE CONSIDERATION FOR THIS MUST BE ADDRESSED BY THE PROJECT ENGINEER OF RECORD. IN ADDITION, THE ROOF SYSTEM, BECAUSE IT IS DESIGNED TO FLOAT, WILL NOT SUPPORT STRUCTURAL MEMBERS LATEROALLY. WHEN REPLACING AN EXISTING SCREW DOWN ROOF, ADDITIONAL BRACING MAY BE REQUIRED TO LATEROALLY SUPPORT THE MEMBERS. ENGINEERING AND MATERIAL FOR THESE USES SHALL NOT BE PROVIDED BY MBS.

### BUILDING & PANEL PREPARATION

**STEP 1: PLUMB AND SQUARE**  
THE FIRST STEP IN THE SUCCESSFUL INSTALLATION OF WALL PANELS IS TO HAVE THE PRIMARY FRAMING PLUMB AND SQUARE. FOR BEST RESULTS, IT IS RECOMMENDED THAT A TRANSIT BE USED WHEN ERECTING THE STRUCTURAL STEEL. MAKE SURE THAT THE FOUNDATION AND BUILDING STRUCTURE IS SQUARE, LEVEL, AND CORRECT TO THE OUT-TO-OUT STEEL LINE DIMENSIONS.

FIGURE "A"

SEE FIGURE "A"

IF YOU STRIP H1030 OR H1050 REPLACE IT WITH H1000

IF YOU STRIP H1000 IN ENDLAP YOU MUST REBUILD THE ENDLAP

### FIELD CUTTING PANELS

WHEN FIELD CUTTING OR MITERING WALL PANELS, NON-ABRASIVE CUTTING TOOLS SUCH AS NIBBLERS OR TIN-SNIPS SHALL BE USED. ABRASIVE CUTTING TOOLS SUCH AS MECHANICAL GRINDERS OR POWER SAWS CAN DAMAGE THE MATERIAL FINISH AND CREATE EXCESS METAL SHAVINGS THAT CAN CORRODE THE PANELS. THE USE OF NON-APPROVED CUTTING DEVICES MAY VOID THE FACTORY WARRANTY.

ANY METAL SHAVINGS THAT ARE CREATED NEED TO BE CLEANED FROM THE PANEL TO PREVENT SCRATCHING AND/OR CORROSION. THE MANUFACTURER WILL NOT ACCEPT CLAIMS FOR DAMAGE/DETERIORATION DUE TO USE OF UNAPPROVED TOOLS.

### SPECIAL CONDITION AT A STRONG-BACK EAVE BEAM

IF THIS PROJECT HAS AN EAVE BEAM WITH (2) PURLINS, AS SHOWN, DO NOT ATTACH ROOF CLIPS TO THE "SECOND" PURLIN.

EAVE BEAM AT LOW EAVE

EAVE BEAM AT HIGH EAVE

### FASTENER INSTALLATION

**RECOMMENDED TOOL TYPES: SEE ALSO FASTENER SCHEDULE**  
4 AMP OR HIGHER RATED TOOLS (DO NOT USE IMPACTING TOOLS)  
2000 - 2500 RPM SCREW GUN WITH TORQUE ADJUSTABLE CLUTCH  
MANUAL OR ELECTRIC RIVET TOOL

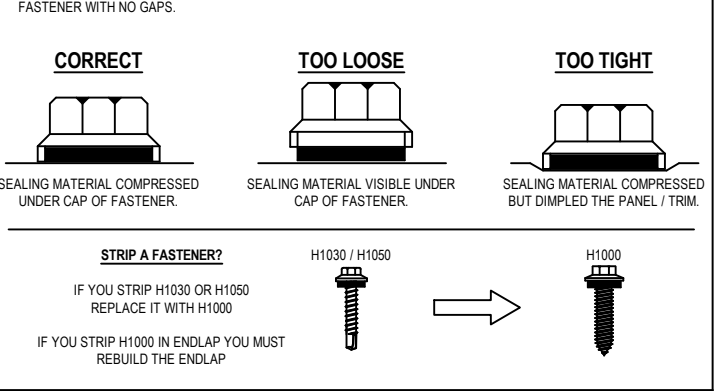
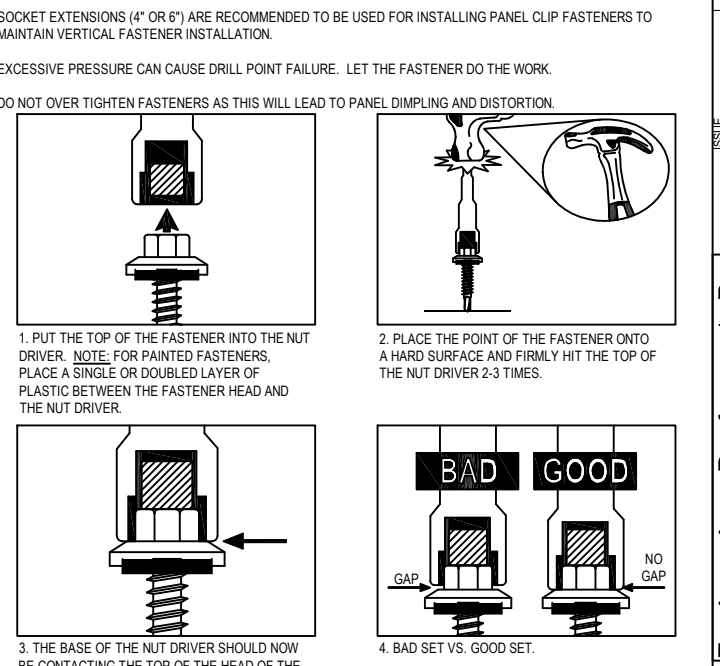
**DO NOT USE IMPACTING TOOLS**  
TO ASSURE PROPER VOLTAGE TO THE TOOL, EXTENSION CORDS SHOULD BE CHECKED FOR PROPER RIVE SIZE/CHORD LENGTH.  
16 GAGE WIRE, MAXIMUM CHORD LENGTH = 100'  
14 GAGE WIRE, MAXIMUM CHORD LENGTH = 200'  
12 GAGE WIRE, MAXIMUM CHORD LENGTH = 300'

**DRIVING TIPS:**  
SET THE NUT DRIVER AS DESCRIBED BELOW PRIOR TO INSTALLING FASTENERS TO PREVENT FASTENER WOBBLE...

SOCKET EXTENSIONS (4" OR 6") ARE RECOMMENDED TO BE USED FOR INSTALLING PANEL CLIP FASTENERS TO MAINTAIN VERTICAL FASTENER INSTALLATION.

EXCESSIVE PRESSURE CAN CAUSE DRILL POINT FAILURE. LET THE FASTENER DO THE WORK.

DO NOT OVER TIGHTEN FASTENERS AS THIS WILL LEAD TO PANEL DIMPLING AND DISTORTION.



### ROOF SHEETING DIRECTION

1.) THE ROOF SHEETING PLAN IS SHOWN WITH THE ROOF PANELS BEING ERECTED FROM "LEFT-TO-RIGHT". IF THE DESIRE IS TO ERECT THE ROOF PANELS FROM "LEFT-TO-RIGHT", FOLLOW THE ROOF SHEETING PLAN AS SHOWN. IF THE DESIRE IS TO ERECT THE ROOF PANELS FROM "RIGHT-TO-LEFT", FOLLOW THE INSTRUCTIONS SHOWN BELOW.

2.) WHEN SETTING BUNDLES OF PANELS ON THE ROOF, THE "MALE RIB" MUST ALWAYS BE AWAY FROM THE END OF THE BUILDING WHERE THE SHEETING WILL BEGIN.

ROOF PLANE

START PANEL

FINISH PANEL

MALE RIB

ORIGINAL LAYOUT (LEFT-TO-RIGHT)

"MALE RIBS"

LOW EAVE

ROTATE PANELS 180° (RIGHT-TO-LEFT)

"MALE RIBS"

LOW EAVE

**Loc Seam NOTES**  
EAVE GUTTER DETAIL W/ WALL PANELS  
SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS

**EA3010**

Engineering Performed By:

Nucor Corporation  
200 Whetstone Rd.  
Swansea, SC 29460  
COA# F-1470

CAMPBELL BASEBALL OPEN SHELTER  
76 UPCHURCH LANE, BUIES CREEK, NC 27506

CUSTOMER NAME  
SOUTHEASTERN CONSTRUCTION OF BUIES CREEK, LLC  
BUIES CREEK, NC 27506

PROJECT NAME  
76 UPCHURCH LANE, BUIES CREEK, NC 27506

JOB NUMBER  
A23B0716A

SHEET TITLE  
CERTIFIED ERECTION DETAILS

DATE  
08/12/2023

PREPARED BY  
RHB

CHECKED BY  
BLS

ISSUED BY  
FVMS

THE SEAL PERTAINS ONLY TO THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED BY THE METAL BUILDING MANUFACTURER AND DOES NOT SERVE AS OR AUTHORIZE THE PRACTICE OF RECORD AND SEAL FOR THESE CONTRACTS AS SUCH.

SEAL 24064  
ENGINEER  
RAJESH H. BHAGNARI

North Carolina Professional Seal

SHEET  
CED4

### BASIC INSTALLATION SEQUENCE

THE FOLLOWING STEPS OUTLINE THE BASIC INSTALLATION OF THE ROOF SYSTEM. REFERENCE THE SPECIFIC DETAILS WITHIN THIS ERECTION DRAWING SET FOR CONDITIONS SPECIFIC TO THIS PROJECT.

#### START PANEL PREPARATION

THE ROOF SYSTEM IS DESIGNED TO BE ELEVATED AND FLOAT ABOVE THE ROOF SUPPORT MEMBERS. BEGIN AT THE LOWER RAKE CORNER BY INSTALLING THE EAVE PLATE. (REFERENCE EAVE PLATE INSTALLATION BELOW)

AFTER EAVE PLATE HAS BEEN INSTALLED, STITCH THE FIRST ROLL OF ROOF INSULATION FROM RIDGE / HIGH EAVE TO LOW EAVE.

INSTALL THE RAKE CLIPS AND RAKE ANGLE TO SUPPORT / SECURE THE START PANEL. (REFERENCE RAKE ANGLE / RAKE CLIP PREPARATION TO THE RIGHT)

#### FIELD CUT AND INSTALL START PANEL

THE START PANEL IS SUPPLIED AS A FULL SHEET AND WILL NEED TO BE CUT. REFER TO THE ROOF SHEETING PLAN FOR START / FINISH DIMENSIONS AND RAKE DETAILS TO DETERMINE PROPER PANEL CUT. INSTALL THE START PANEL (LOW EAVE PANEL FIRST IF PANEL RUN IS LONG ENOUGH TO REQUIRE ENDLAPS) BY SECURING THE PANEL TO THE EAVE PLATE AND RAKE ANGLE. (REFERENCE LOW EAVE AND RAKE DETAILS). INSTALL PANEL CLIPS ON LEADING EDGE OF PANEL AS SHOWN IN THE PANEL CLIP DETAIL. CONTINUE TO INSTALL UPSLOPE START PANEL IF ENDLAPS ARE REQUIRED. REFERENCE THE BACKUP PLATE DETAIL AND ENDLAP DETAIL FOR ATTACHMENT OF START PANEL(S) AT RAKE ANGLE.

#### INTERMEDIATE PANEL & MODULARITY

THE INTERMEDIATE PANELS (FULL PANELS) SHOULD BE INSTALLED BY ROLLING THE PANEL INTO PLACE ENSURING THE SEAM IS FULLY ENGAGED. SECURE THE PANELS WITH PANEL CLIPS AND THE LOW EAVE ACROSS THE ROOF. IT IS RECOMMENDED TO INSTALL THE OUTSIDE CLOSURE AT THE HIGH EAVE / RIDGE AS THE ROOF PROGRESSES. THIS WILL HELP MAINTAIN MODULARITY. (REFERENCE HIGH EAVE / RIDGE DETAILS)

#### FINISH PANEL

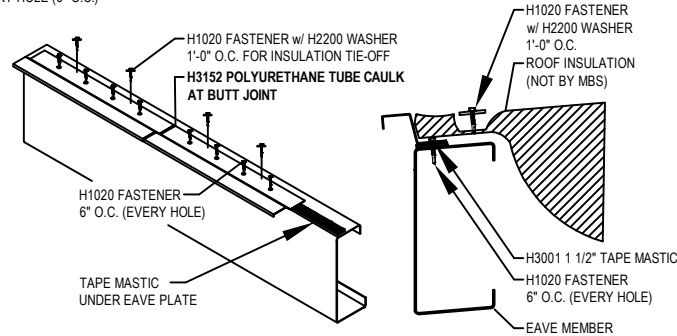
THE FINISH PANEL IS SIMILAR TO THE START PANEL INSTALLATION. THE RAKE ANGLE CLIPS AND RAKE ANGLE NEEDS TO BE INSTALLED ON TOP OF THE INSULATION PRIOR TO INSTALLING THE FINISH PANEL. THE FINISH PANEL SHOULD BE FIELD CUT AND ROLLED INTO PLACE AND SECURED TO THE RAKE ANGLE SIMILAR TO THE START PANEL.

#### TRIM INSTALLATION

TRIM INSTALLATION CAN BE DONE AFTER THE ROOF PANELS ALL HAVE BEEN INSTALLED OR CAN BE INSTALLED AS ENOUGH PANELS HAVE BEEN INSTALLED FOR ATTACHMENT OF TRIMS. (REFERENCE TRIM DETAILS)

### EAVE PLATE INSTALLATION

PLACE TAPE MASTIC ON TOP OF EAVE MEMBER PRIOR TO INSTALLING EAVE PLATE. INSTALL EAVE PLATE BY FASTENING EVERY HOLE TO EAVE MEMBER (6" O.C.) PRIOR TO INSULATION BEING INSTALLED. SECURE INSULATION WITH FASTENER & INSULATION RETAINER WASHER. NOTE: IF NO ROOF INSULATION IS USED SECURE EAVE PLATE IN EVERY HOLE (6" O.C.)

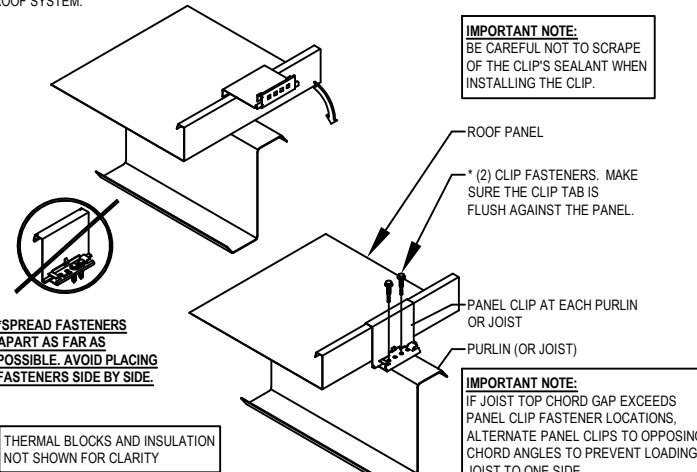


NOTE: H1020/H1070 (PURLIN/JOIST) FASTENER w/ H2200 WASHER 1'-0" O.C. FOR INSULATION TIE-OFF PROVIDED AT HIGH SIDE / RIDGE

SHORT EAVE PLATE	TALL EAVE PLATE
EPS108 BASIC EAVE / GUTTER	EPT108 BASIC EAVE / GUTTER

### PANEL CLIP INSTALLATION

BEFORE INSTALLING THE PANEL CLIP, FEEL FOR THE SUPPORT MEMBER BELOW THE INSULATION. ALIGN CLIP CENTERED OVER THE SUPPORT MEMBER AND ROLL CLIP OVER THE MALE HOOK OF THE PANEL. FASTEN CLIP WITH FASTENERS AS SPECIFIED IN THE DETAILS BASED ON THE SUPPORT MEMBER AND INSULATION UTILIZED FOR THE ROOF SYSTEM.



**IMPORTANT NOTE:** BE CAREFUL NOT TO SCRAPER OF THE CLIP'S SEALANT WHEN INSTALLING THE CLIP.

**IMPORTANT NOTE:** IF JOIST TOP CHORD GAP EXCEEDS PANEL CLIP FASTENER LOCATIONS, ALTERNATE PANEL CLIPS TO OPPOSING CHORD ANGLES TO PREVENT LOADING JOIST TO ONE SIDE.

STANDARD CLIPS	
PART #	PART DESCRIPTION
H4550	UTILITY FIXED CLIP
LSBC-1	SHORT BEARING CLIP (USED WITH RIGID BOARD)
LSEC-1	SHORT SLIDING CLIP
LSEC-2T	TALL SLIDING CLIP

**CLIP FASTENER SELECTION**  
 PURLIN APPLICATION  
 H1020 FOR INSULATION ≤ R-19 (6 3/8")  
 H1025 FOR INSULATION = R-25 (8")  
 H1220 FOR UTILITY CLIP

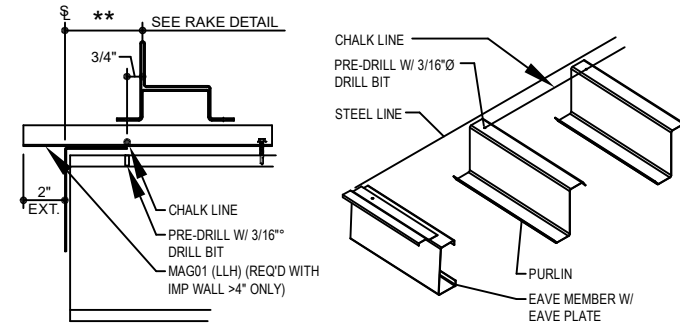
**JOIST APPLICATION**  
 H1070 FOR INSULATION ≤ R-19 (6 3/8")  
 H1075 FOR INSULATION = R-25 (8")

### RAKE ANGLE / RAKE CLIP PREPARATION

PRIOR TO INSTALLING THE ROOF INSULATION THE SECONDARY MEMBER WILL NEED TO BE PRE-DRILLED FOR THE RAKE CLIPS. PRE-DRILLING WILL MAKE INSTALLATION OF THE RAKE AND CLIPS MUCH EASIER AFTER INSULATION IS IN PLACE. DO NOT INSTALL RAKE CLIPS UNTIL INSULATION (IF REQUIRED) IS INSTALLED. **RAKE CLIP IS INSTALLED ON TOP OF THE INSULATION.**

SNAP A CHALK LINE AS SHOWN BELOW FROM HIGH EAVE / RIDGE TO LOW EAVE. DRILL 3/16" Ø HOLE CENTERED ON SECONDARY MEMBER. THIS IS HELPS TO ALIGN THE START PANEL.

NOTE: IMP WALL PANEL >4" THICK REQUIRE ANGLES ON TOP OF SECONDARY MEMBER EXTENDED BEYOND STEEL LINE TO ALLOW FOR RAKE CLIP ATTACHMENT. ATTACH WITH (1) H1020 / H1070 TO PURLIN / JOIST PRIOR TO RAKE CLIP INSTALLATION.

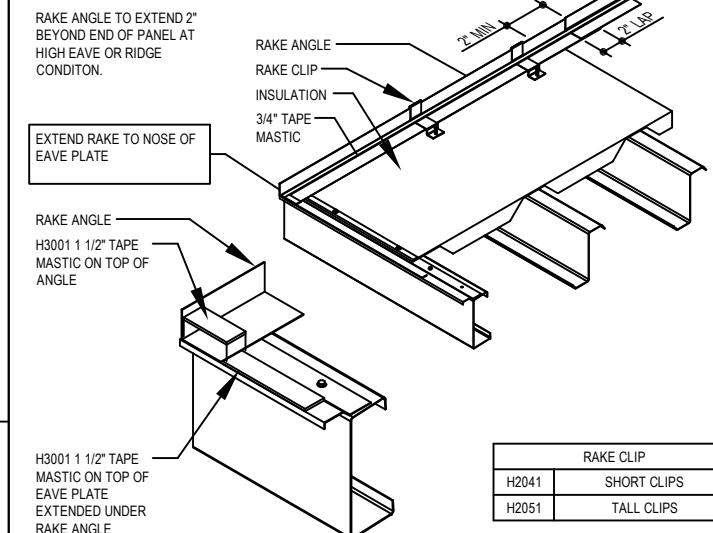


### RAKE ANGLE / RAKE CLIP INSTALLATION

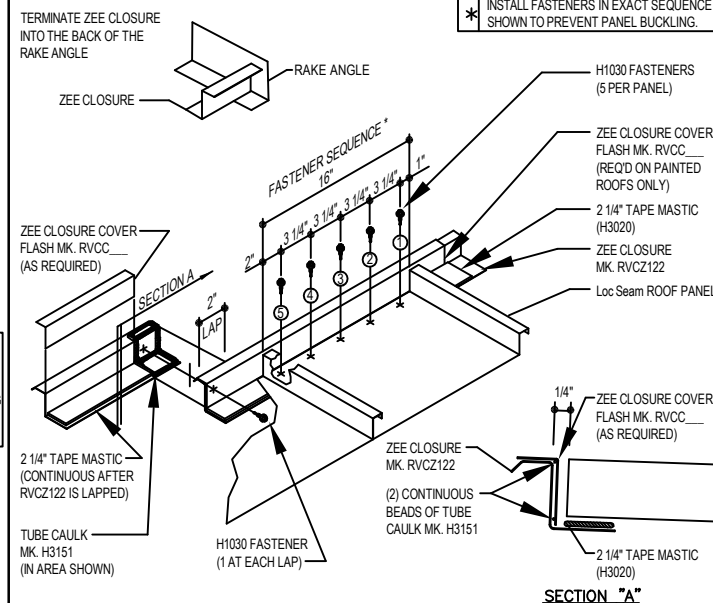
AFTER INSULATION IS IN PLACE AND PRIOR TO INSTALLING THE RAKE CLIPS AND RAKE ANGLE APPLY 1 1/2" TAPE MASTIC ON TOP OF THE EAVE PLATE BUT ONLY REMOVE PAPER BACKING WHERE THE RAKE ANGLE WILL REST. THIS WILL SEAL BETWEEN THE EAVE PLATE AND THE RAKE ANGLE.

SLIDE RAKE CLIPS ONTO RAKE ANGLE PRIOR TO SECURING THE RAKE CLIPS TO THE SECONDARY MEMBERS. PLACE THE RAKE CLIPS AND ANGLE OVER THE INSULATION USING A SMALL DRIFT PIN TO LOCATE THE PRE-DRILLED HOLE. INSTALL FASTENER THROUGH OPPOSITE CLIP HOLE INTO SECONDARY MEMBER. REMOVE DRIFT PIN AND INSTALL SECOND FASTENER TO SECURE CLIP. NOTE: (2) SCREWS ARE REQUIRED IN EVERY CLIP. DO NOT CUT INSULATION OFF FROM AROUND THE CLIP.

**PLACE ADDITIONAL PIECE OF 1 1/2" TAPE MASTIC ON TOP OF RAKE ANGLE AND MARRY INTO EAVE PLATE MASTIC. NEXT RUN 3/4" TAPE MASTIC ALONG BEND OF RAKE ANGLE.**



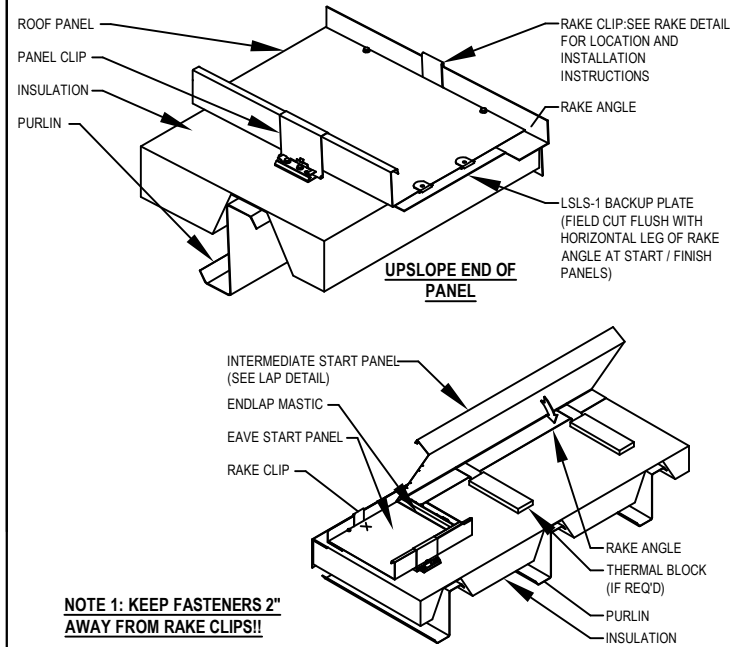
RAKE CLIP	
H2041	SHORT CLIPS
H2051	TALL CLIPS



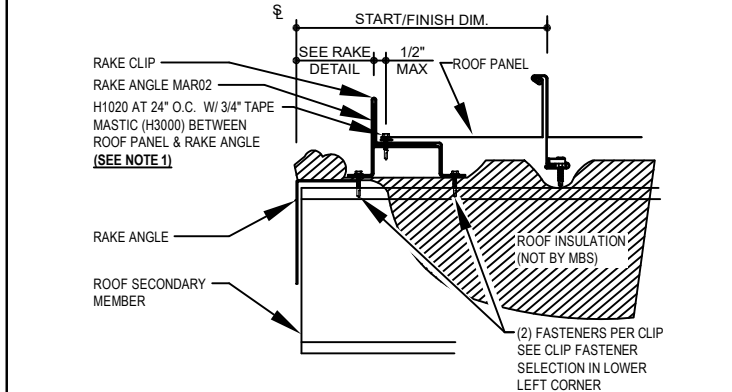
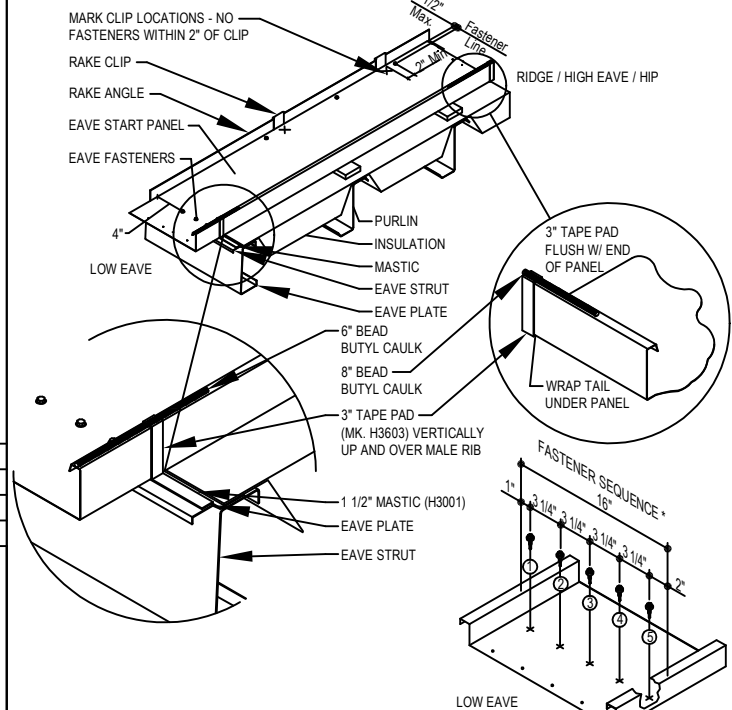
### RIDGE/HIGHSIDE ZEE CLOSURE DETAIL

### BACKUP PLATE INSTALLATION

THE BACKUP PLATE PROVIDES SUPPORT AT THE ENDLAP OF THE PANEL TO ALLOW FOR COMPRESSION OF SEALANTS. THE BACK UP PLATE HAS NOTCHES THAT SLIDE ONTO THE PANEL TO LOCATE AND HOLD THE BACKUP PLATE IN PLACE. AT THE RAKE CONDITION, THE BACKUP PLATE IS TO BE FIELD CUT FLUSH WITH THE HORIZONTAL LEG OF THE RAKE ANGLE. DO NOT EXTEND BACKUP PLATE ON TOP OF RAKE ANGLE.



**NOTE 1: KEEP FASTENERS 2" AWAY FROM RAKE CLIPS!!**



### LOC SEAM BASIC INSTALLATION DETAIL

BASIC PANEL INSTALLATION INSTRUCTIONS  
 SEE ROOFLINE TRIM DETAILS FOR FURTHER INFORMATION

**EA3011**

DATE	08/12/2023
PE	
ENG	RHB
CHK	BLS
DNV	MBS
ISSUE	FINALS

Engineering Performed By:  
 Nucor Corporation  
 200 Whetstone Rd.  
 Swansea, SC 29460  
 COA# F-1470

PROJECT NAME  
 CAMPBELL BASEBALL OPEN SHELTER  
 76 UPCHURCH LANE, BUJES CREEK, NC 27506

CUSTOMER NAME  
 SOUTHEASTERN CONSTRUCTION OF BUJES CREEK, LLC  
 BUJES CREEK, NC 27506

JOB NUMBER  
 A23B0716A

SHEET TITLE  
 CERTIFIED ERECTION DETAILS

SEAL  
 24064

ENGINEER  
 RAJESH H. BHAGNARI

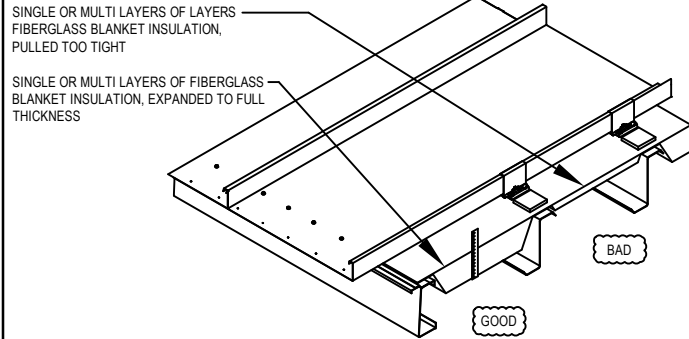
THE SEAL IS VALID ONLY IF THE SEALING DESIGNEE IS SUPPLIED BY THE METAL BUILDING MANUFACTURER. THE DRAWINGS AND THE METAL BUILDINGS WHICH THEY REPRESENT ARE THE PROPERTY OF THE METAL BUILDING MANUFACTURER. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS SIGNIFYING THAT HE OR SHE HAS REVIEWED AND APPROVED THE PROJECT ENGINEER'S RECORD AND SHALL BE RESPONSIBLE THEREFOR.

SHEET  
 CED5

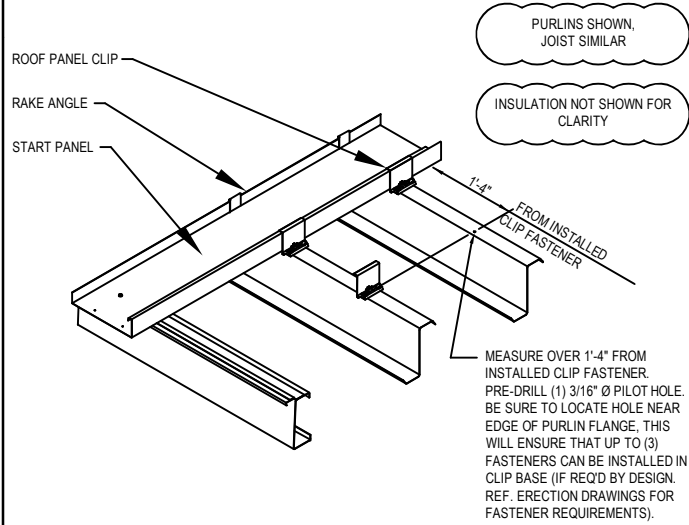
SPECIAL ATTENTION MUST BE GIVEN TO INSULATION SAG AND RECOMMEND PRE-DRILLING TO LOCATE CLIPS. MODULARITY TOOLS ARE AVAILABLE TO AID IN MODULARITY.

ENSURE THE INSULATION IS PERMITTED TO SAG AT MID-SPAN BETWEEN ROOF SECONDARY MEMBERS AND EXPANDED TO THE FULL THICKNESS WHILE STILL KEEPING CONTACT WITH BOTTOM OF PANEL.

DO NOT PULL THE INSULATION TAUT AS THIS WILL SIGNIFICANTLY REDUCE THE THERMAL PERFORMANCE OF THE ROOF SYSTEM AND COULD CAUSE ROOF PANEL MODULARITY ISSUES.

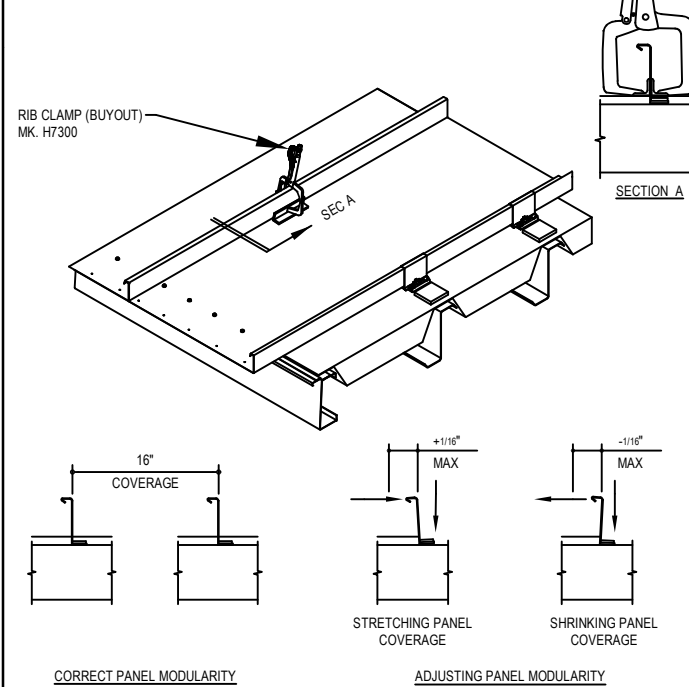


PRE-DRILL ONE PILOT HOLE FOR ROOF PANEL CLIPS AT MID-SPANS, HIGH SIDE OR RIDGE AND PANEL END LAPS, IF ANY.



USE RIB CLAMPS TO HOLD PANEL CLIPS IN PLACE, PRIOR TO FASTENING, TO MAINTAIN A CONSTANT 16" WIDE PANEL COVERAGE.

DO NOT ADJUST THE PANEL WIDTH BY MORE THAN ± 1/8" ON ANY PANEL.

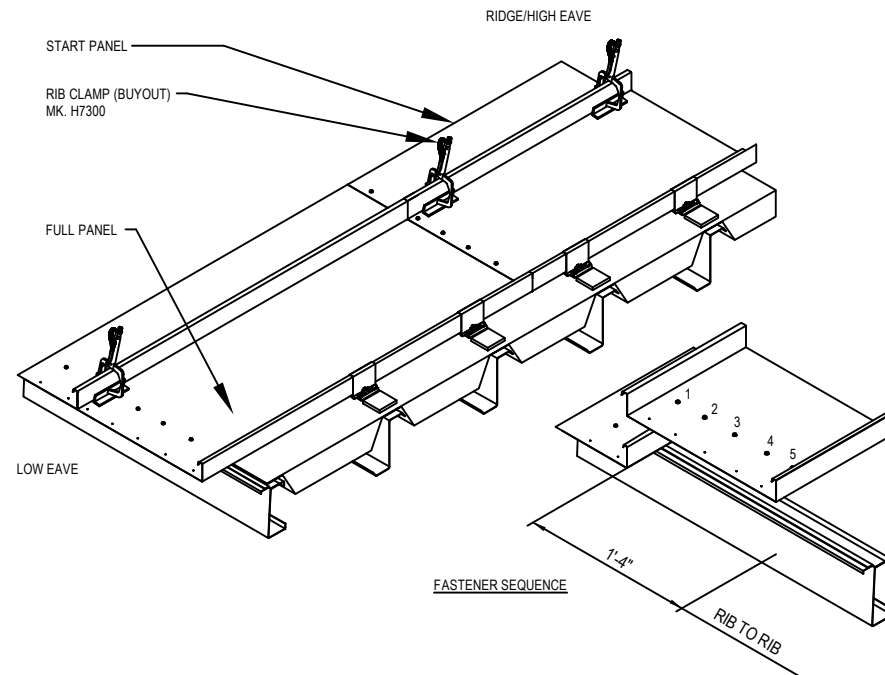


# PANEL MODULARITY SEQUENCE

THE PROCEDURES AND SEQUENCE SHOWN ARE RECOMMENDED TO AID IN MAINTAINING PANEL MODULARITY. THE TOOLS SHOWN ARE NOT REQUIRED BUT RECOMMENDED TO AID INSTALLATION.

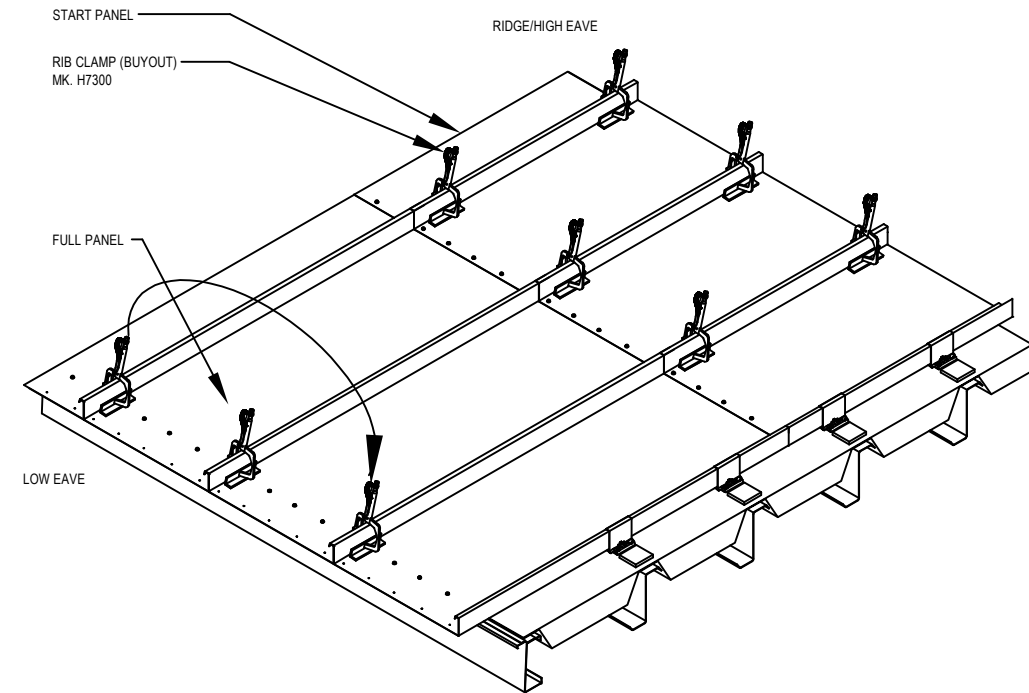
## STAGE #1

1. ROLL FIRST FULL PANEL IN PLACE AND ALIGN CENTER OF PANEL FLAT TO SQUARE AS SHOWN BELOW.
2. APPLY THE LOW EAVE CLAMP AS SHOWN TO DRAW PANEL TIGHT TO CLOSURE.
3. INSTALL THE EAVE FASTENERS STARTING AT LEADING RIB.
4. AS PANEL INSTALLATION PROGRESSES, INSTALL MORE CLAMPS UPSLOPE AS SHOWN.
5. ADD, ADJUST OR LEAVE CLAMPS OFF TO MAINTAIN PANEL MODULARITY AS NECESSARY.
6. LEAVE CLAMPS ON FIRST FULL SEAM.



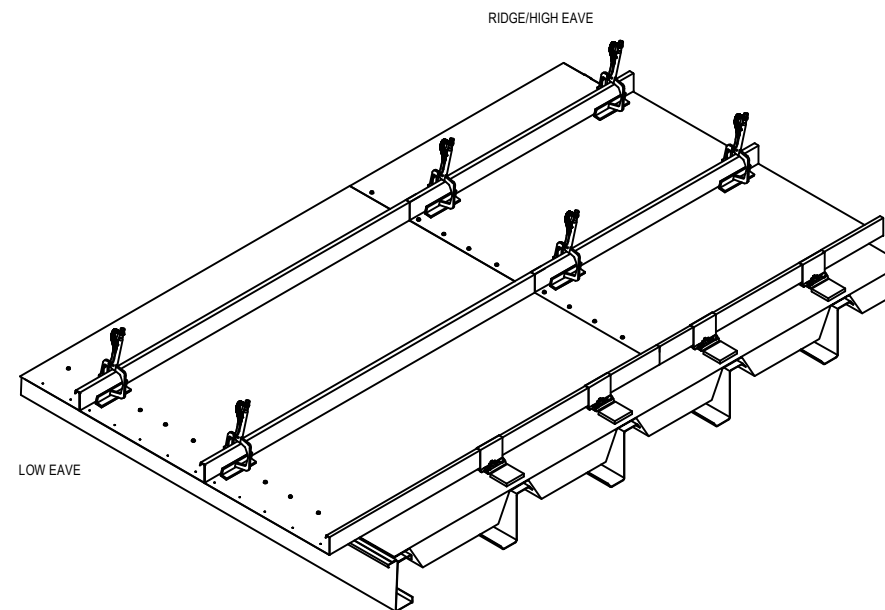
## STAGE #3

1. KEEP CLAMPS IN PLACE ON THE FIRST TWO SEAMS WITH THE EXCEPTION OF THE LOW EAVE CLAMP.
2. INSTALL THE NEXT LOW EAVE PANEL AND LEAP FROG CLAMP AS SHOWN.
3. REPEAT STEPS 2 THROUGH 5 FROM STAGE #1 NOTES.



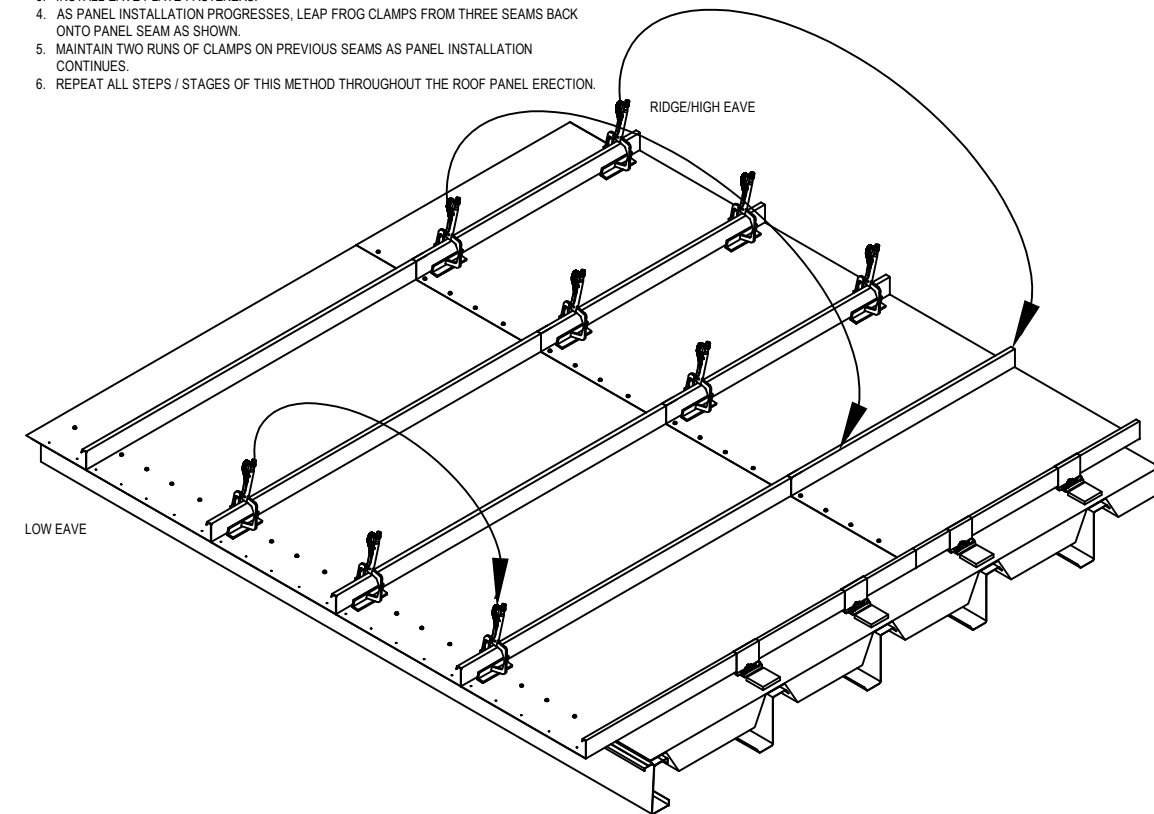
## STAGE #2

1. INSTALL THE NEXT LOW EAVE PANEL AND ADD CLAMP.
2. REPEAT STEPS 2 THROUGH 6 FROM STAGE #1 NOTES.
3. LEAVE CLAMPS ON FIRST AND SECOND FULL SEAM.
4. INSTALL THE OUTSIDE CLOSURE IN THE FIRST FULL PANEL.



## STAGE #4

1. KEEP CLAMPS IN PLACE ON THE FIRST TWO SEAMS WITH THE EXCEPTION OF THE LOW EAVE CLAMP.
2. INSTALL THE NEXT LOW EAVE PANEL AND LEAP FROG THE CLAMP AS SHOWN.
3. INSTALL EAVE PLATE FASTENERS.
4. AS PANEL INSTALLATION PROGRESSES, LEAP FROG CLAMPS FROM THREE SEAMS BACK ONTO PANEL SEAM AS SHOWN.
5. MAINTAIN TWO RUNS OF CLAMPS ON PREVIOUS SEAMS AS PANEL INSTALLATION CONTINUES.
6. REPEAT ALL STEPS / STAGES OF THIS METHOD THROUGHOUT THE ROOF PANEL ERECTION.



### MODULARITY GUIDANCE

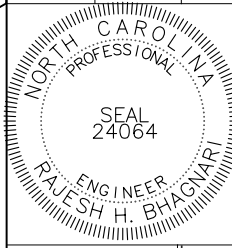
SPECIAL ATTENTION TO ABOVE STEPS TO MAINTAIN PROPER PANEL MODULARITY AND THERMAL PERFORMANCE IS CRITICAL. FAILURE TO DO SO WILL RESULT IN UNSIGHTLY PANEL APPEARANCE.

EA3012

DATE	08/12/2023
ISSUE	
CHK	BLS
ENG	RHB
PE	
DOWN	MBS
FINAL	

Engineering Performed By:  
 Nucor Corporation  
 200 Whetstone Rd.  
 Swansea, SC 29460  
 COA# F-1470

PROJECT NAME  
 CAMPBELL BASEBALL OPEN SHELTER  
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 A23B0716A  
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 CERTIFIED ERECTION DETAILS

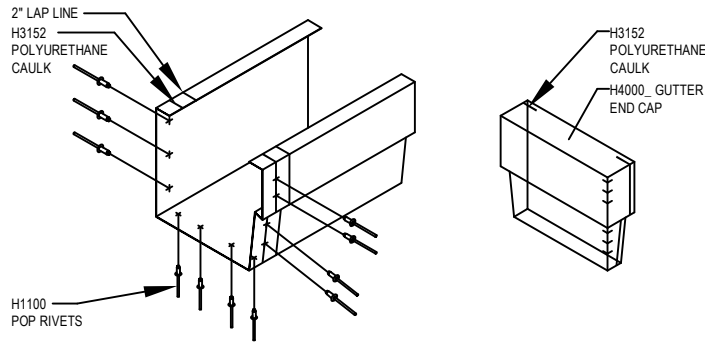


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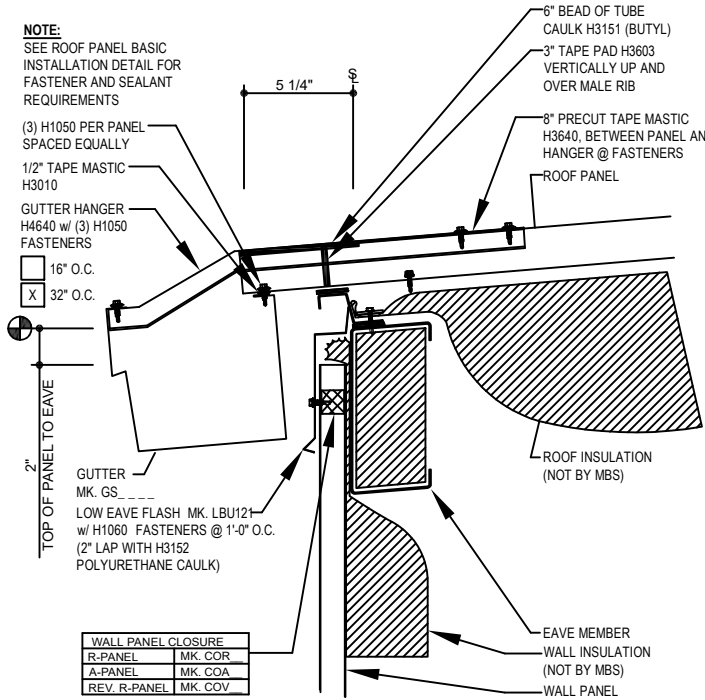
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**GUTTER LAP & END CAP**

APPLY BEAD OF POLYURETHANE CAULK 1" FROM END OF TRIM AND LAP SECTIONS 2" AND FASTEN AS SHOWN. TO TERMINATE THE GUTTER APPLY POLYURETHANE CAULK TO THREE SIDES OF END CAP AND TOP RETURN AREA AS SHOWN AND INSERT INTO THE GUTTER LEAVING 1/2" EXPOSED. ATTACH WITH RIVETS SAME AS END LAP.



**NOTE 1: PANEL RIB MUST BE HAND CRIMPED 90° (NOT 360°) PRIOR TO INSTALLING GUTTER BRACKET!**



**ON-SLOPE GUTTER DETAIL**

EAVE GUTTER DETAIL w/ WALL PANELS  
SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS

**ED3010**

**STEP 1**

**GUTTER END CAPS**  
APPLY A CONTINUOUS BEAD OF POLYURETHANE TUBE CAULK (H3152) AROUND THREE SIDES OF THE GUTTER END CAP (H4000).

INSERT THE GUTTER CAP 1/2" (H4000) INTO THE END OF THE GUTTER.  
FASTEN WITH **POP RIVETS (H1100)** AS SHOWN IN GUTTER DETAIL. APPLY **POLYURETHANE TUBE CAULK (H3152)** AROUND PERIMETER INSIDE GUTTER TO SEAL CAP.

EXTEND GUTTER BEYOND FACE OF WALL CORNER TRIM AS SHOWN.

**RAKE CAP END INSTALLATION**  
HOLD THE RAKE CAP END (RSCE) TIGHT TO THE BACK OF AND FLUSH WITH THE BOTTOM OF THE GUTTER. FASTEN TO THE WALL CORNER TRIM WITH (2) TRIM-COLORED SELF-DRILLING **SCREWS (H1050)**.

**RAKE CAP INSTALLATION**  
BEFORE INSTALLING THE RAKE TRIM, THE RAKE CAP MUST BE INSTALLED.

APPLY **POLYURETHANE TUBE CAULK (H3152)** TO (3) SIDES OF THE **RAKE CAP** AND PLACE IT ON THE END OF THE PANEL 1/2" FROM THE EDGE OF THE GUTTER END CAP (FLUSH WITH FACE OF CORNER TRIM.) NO FASTENERS ARE REQUIRED FOR THE RAKE CAP. FIELD COPE FLAT OF RAKE CAP AS REQUIRED.

**RAKE CAP PART NUMBERS**  
• RSCL (LEFT)  
• RSCR (RIGHT)

**STEP 2**

**RAKE TRIM INSTALLATION AT BUILDING WITH GUTTER**

**RAKE TRIM PART NUMBERS**  
• RS\_121 X 10'-1"  
• RS\_242 X 20'-2"

**ALL PARTS MUST BE POSITIONED PROPERLY BEFORE TOUCHING THE MASTIC TO THE ROOF PANEL. MASTIC CANNOT BE REUSED.**

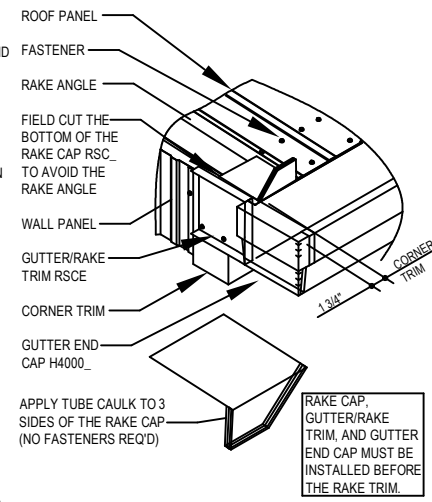
ALIGN THE END OF THE RAKE TRIM WITH THE END OF THE ROOF PANEL. THIS WILL LAP ONTO THE GUTTER END CAP.  
ALWAYS START THE RAKE TRIM INSTALLATION AT THE LOW EAVE WORKING TOWARD THE HIGH EAVE OR RIDGE. INSTALL RAKE TRIM ACCORDING RAKE TRIM DETAIL

COPE THE BOTTOM VERTICAL LEG OF THE RAKE TRIM FLUSH WITH THE OUTSIDE EDGE OF THE WALL CORNER TRIM. FASTEN THE RAKE TRIM TO THE END CAPS USING POP RIVETS (H1100)

**SCULPTURED RAKE TO ON SLOPE GUTTER**

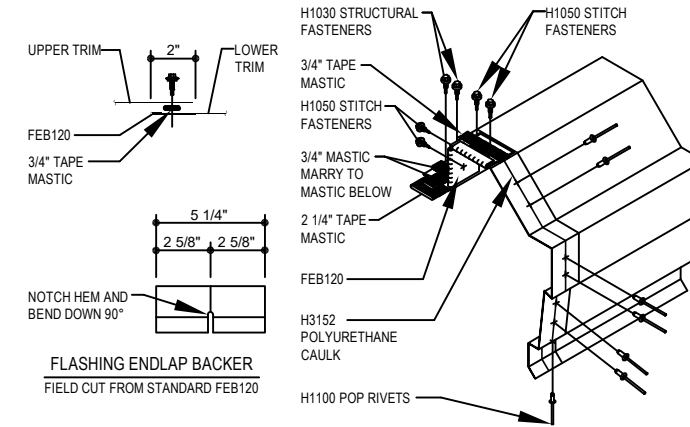
DETAIL SHOWN WITH WALL PANEL AND CORNER TRIM. MASONRY AND INSULATED WALL PANEL CONDITIONS SIMILAR.

**TRIM 522**

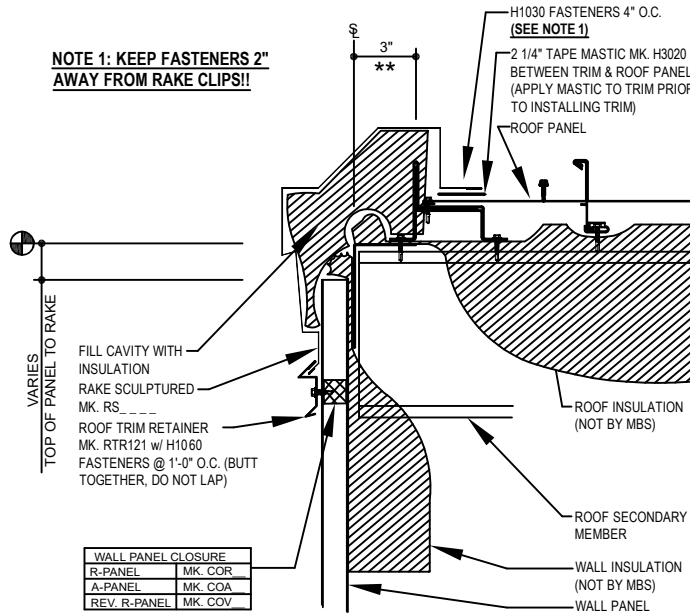


**RAKE LAP & FLASHING BACKER**

SLIDE FIELD CUT SECTION OF FLASHING ENDLAP BACKER ONTO THE LOWER TRIM PIECE AS SHOWN BELOW. PLACE TAPE MASTIC NEXT TO HEM OF THE BACKER (NOT ON TOP OF HEM). APPLY CONTINUOUS BEAD OF CAULK 1" FROM END OF TRIM DOWN PROFILE OF TRIM. FASTEN LAP WITH STITCH FASTENERS AND POP RIVETS AS SHOWN. ROOF STRUCTURAL FASTENERS SHOULD BE USED TO FASTEN THROUGH PANEL FLAT INTO RAKE ANGLE.



**NOTE 1: KEEP FASTENERS 2" AWAY FROM RAKE CLIPS!!**



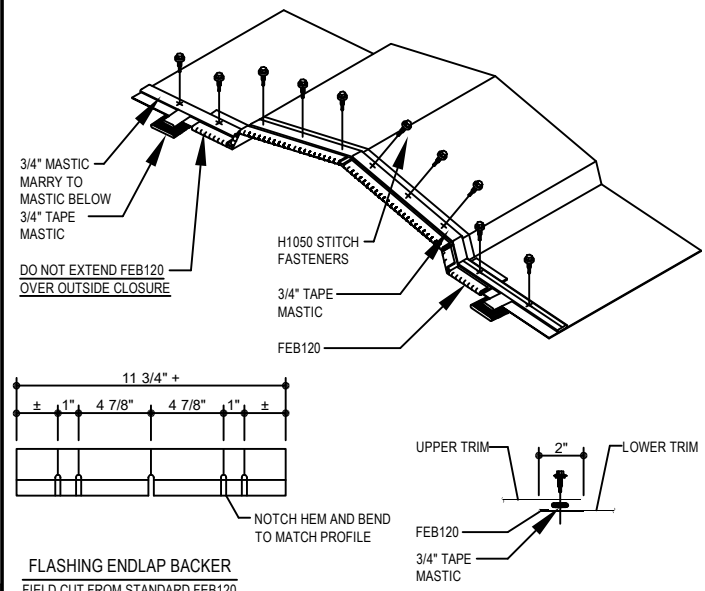
**RAKE SCULPTURED DETAIL**

RAKE SCULPTURED DETAIL w/ WALL PANELS  
SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS

**EE3010**

**RIDGE CAP LAP & FLASHING BACKER**

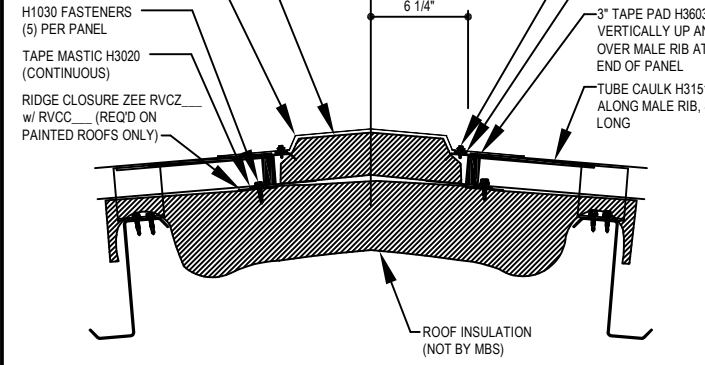
SLIDE FIELD CUT SECTION FLASHING ENDLAP BACKER ONTO THE LOWER TRIM PIECE. PLACE TAPE MASTIC NEXT TO HEM OF THE BACKER (NOT ON TOP OF HEM). MARRY LAP MASTIC WITH MASTIC BETWEEN RIDGE CAP AND RIDGE CLOSURE ZEE.



**FLASHING ENDLAP BACKER**  
FIELD CUT FROM STANDARD FEB120

FILL RIDGE CAP WITH INSULATION TO PREVENT CONDENSATION

RIDGE CAP OPTIONS	
ROOF SLOPE	MARK NUMBER
> 1/4:12 & < 4:12	RVL3121
> 4:12 & < 6:12	RVL6121



**RIDGE TRIM DETAIL**

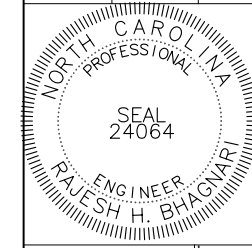
RIDGE TRIM DETAIL

**EG3010**

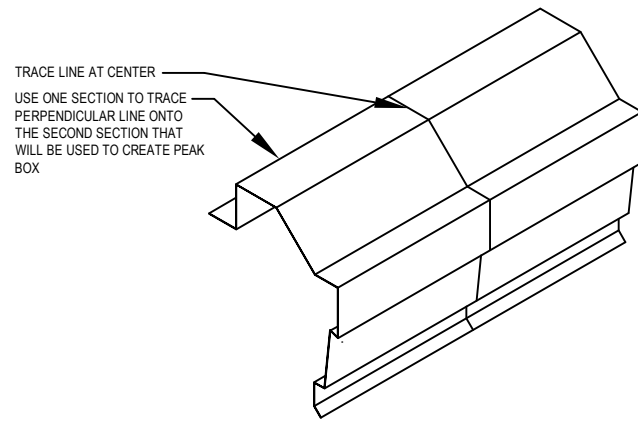
DATE	08/12/2023
ISSUE	
DOWN	
CHK	
ENG	
PE	
MBS	
RHB	
FINALS	

Engineering Performed By:  
Nucor Corporation  
200 Whetstone Rd.  
Swansea, SC 29460  
COA# F-1470

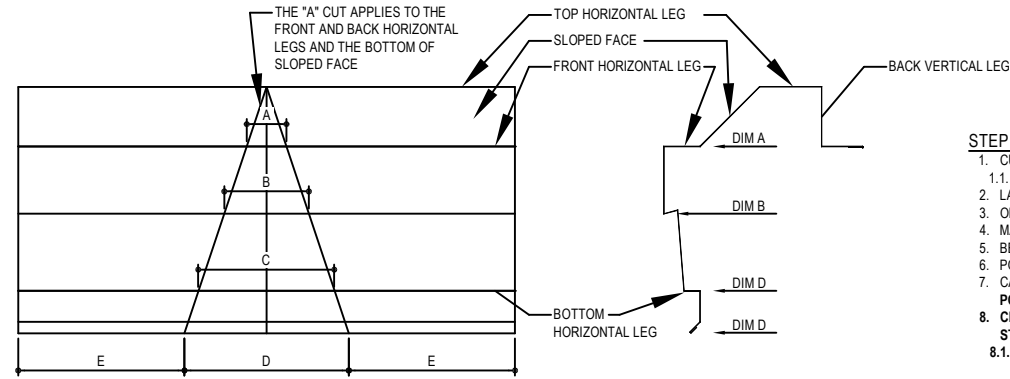
PROJECT NAME  
CAMPBELL BASEBALL OPEN SHELTER  
76 UPCHURCH LANE, BUIES CREEK, NC 27506  
CUSTOMER NAME  
SOUTHEASTERN CONSTRUCTION OF BUIES CREEK, LLC  
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JOB NUMBER  
A23B0716A  
SHEET TITLE  
CERTIFIED ERECTION DETAILS



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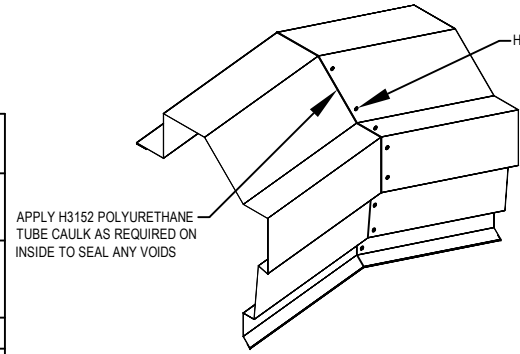
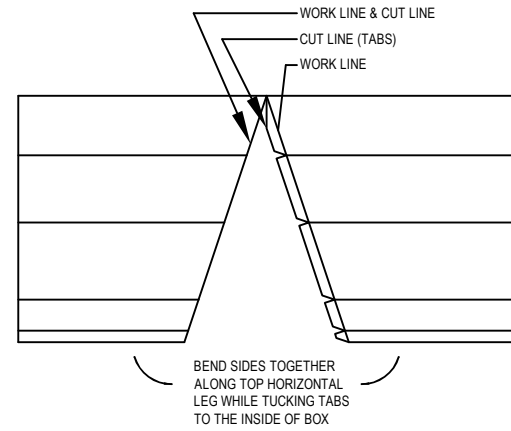


ROOF SLOPE	LAYOUT DIMENSION (INCHES)				
	A	B	C	D	E
0.25:12	1/8	1/4	7/16	1/2	11 3/4
0.50:12	1/4	1/2	13/16	1	11 1/2
1:12	1/2	1	1 5/8	2	11
2:12	15/16	2 1/16	3 5/16	3 15/16	10
3:12	1 7/16	3 1/16	4 15/16	6	9
4:12	1 7/8	4 1/16	6 5/8	7 7/8	8 1/16
5:12	2 3/8	5 1/8	8 1/4	9 7/8	7 1/16
6:12	2 7/8	6 1/8	9 7/8	11 7/8	6 1/16
7:12	3 3/8	7 1/8	11 1/2	13 7/8	5 1/16
8:12	3 7/8	8 3/16	13 1/8	15 7/8	4 1/16
9:12	4 5/16	9 1/8	14 7/8	17 7/8	3 1/8
10:12	4 3/4	10 3/16	16 1/2	19 3/4	2 1/8
11:12	5 1/4	11 1/4	18 1/8	21 3/4	7 1/8
12:12	5 3/4	12 1/4	19 3/4	23 3/4	6 1/8

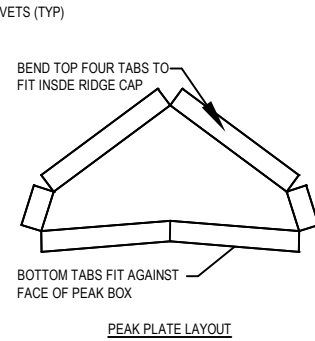


**STEP BY STEP INSTRUCTIONS**

- CUT THE TRIM INTO (2) 2'-0" ± LENGTHS
  - (2) 3'-0" ± LENGTHS AT 11:12 SLOPE AND GREATER
- LAYOUT THE WORK LINES AS SHOWN
- OFFSET ONE OF THE WORK LINES FOR TABS LAYOUT
- MAKE CUTS AS SHOWN
- BEND AT THE TOP HORIZONTAL LEG OF THE TRIM
- POP RIVET THE TWO SIDES TOGETHER WITH H1100 RIVETS
- CAULK ANY GAPS AS REQUIRED ON INSIDE WITH H3152 POLYURETHANE TUBE CAULK
- CREATE FIELD FAB PEAK PLATE FROM SUPPLIED FS6- FLAT STOCK. (NOT REQUIRED W/ LOC SEAM PANEL)
  - PLACE RIDGE CAP TEMPORARILY ON PEAK BOX AND TRACE PATTERN TO TRANSFER TO FLAT STOCK. CUT OUT AS SHOWN AND BEND TABS.



**FIELD FABRICATED PEAK BOX INSTRUCTIONS**  
REFERENCE PEAK BOX DETAIL FOR INSTALLATION



**TRIM\_525**

**METAL PEAK BOX AND PEAK PLATE PREPERATION**

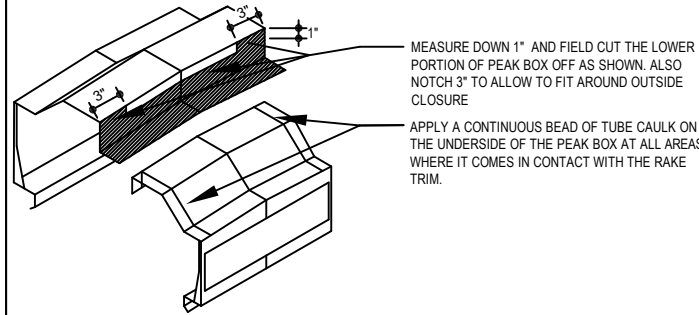
**PEAK BOX PREPARATION STEP 1**

**ERECTOR NOTE:**

PRIOR TO INSTALLING THE FIRST OR LAST PIECE OF RIDGE CAP, THE PEAK BOX AND PEAK PLATE NEED TO BE INSTALLED.

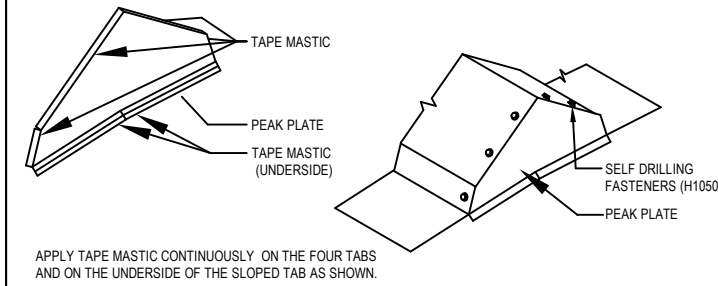
**PEAK BOX**

START BY FIELD CUTTING THE BACK LEG OF THE PEAK BOX OFF AS SHOWN BELOW. NEXT APPLY A CONTINUOUS BEAD OF POLYURETHANE TUBE CAULK (H3152) ON THE UNDERSIDE OF THE PEAK BOX WHERE IT COMES IN CONTACT WITH THE RAKE TRIMS. APPLY POLYURETHANE TUBE CAULK (H3152) TO ANY GAPS ON THE UNDERSIDE OF THE PEAK BOX IN THE MITERED AREA.



**PEAK PLATE WITH RIDGE CAP PREPARATION STEP 2**

START BY APPLYING A CONTINUOUS STRIP OF 1 1/2" TAPE MASTIC (H3001) TO THE TOP OF THE FOUR TABS AND THE UNDERSIDE OF THE SLOPED TAB AS SHOWN. NEXT PLACE THE PEAK PLATE INSIDE OF THE RIDGE CAP AND FASTEN WITH (6) TRIM COLORED (H1050) FASTENERS.



**RIDGE CAP WITH METAL PEAK BOX INSTALLATION**  
DETAIL SHOWN WITH ROOF AND WALL PANEL.

**METAL PEAK BOX & PEAK PLATE INSTALLATION AT STANDARD RAKE TRIM STEP 3**

CENTER THE PREPARED PEAK BOX OVER THE RIDGE. ONCE CENTERED, PUSH THE PEAK BOX DOWN AND OVER THE RAKE TRIMS. MAKE SURE THE BACK LIP OF THE PEAK BOX IS BETWEEN THE OUTSIDE PANEL CLOSURE AND THE RAKE TRIM. TO ACHIEVE THIS YOU MAY NEED TO BACK OUT THE FASTENER ON THE OUTSIDE PANEL CLOSURE TAB AND THEN RE-INSTALL FINISH INSTALLING THE RAKE RETAINER TRIM OVER THE PEAK BOX.

INSTALL CONTINUOUS 1 1/2" TAPE MASTIC (H3001) ALONG THE TOP OF THE OUTSIDE PANEL CLOSURE ON BOTH SIDES OF THE RIDGE. REMOVE THE PAPER BACKING ONLY AS WORK PROGRESSES.

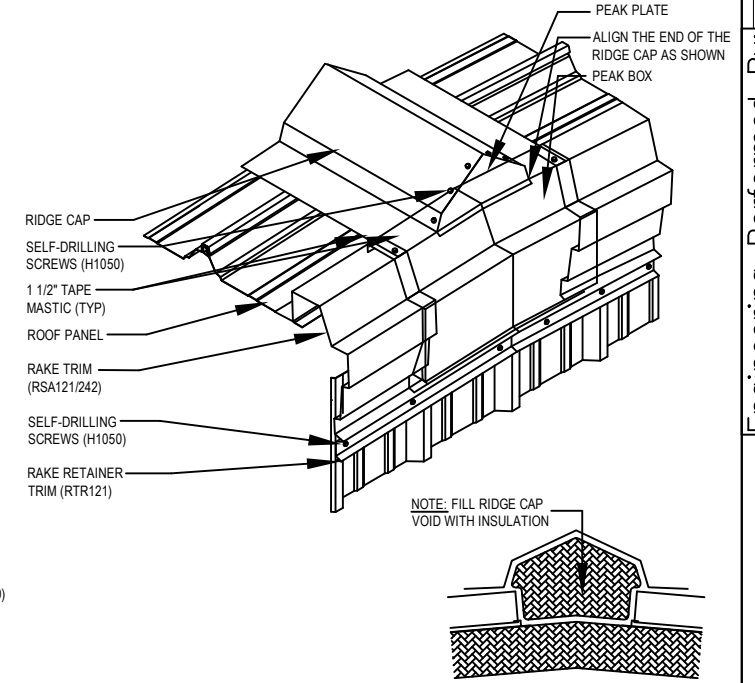
AFTER THE PEAK BOX IS IN PLACE, EXTEND THE 1 1/2" TAPE MASTIC (H3001) FROM THE OUTSIDE PANEL CLOSURE TO THE SLOPED FACE TO THE PEAK BOX. NEXT, INSTALL SHORT PIECES OF 1 1/2" TAPE MASTIC (H3001) TO THE FLAT PORTION OF THE RIDGE CAP (AS SHOWN).

CENTER THE PREPARED SECTION OF RIDGE CAP OVER THE OUTSIDE PANEL CLOSURE AND FASTEN WITH (5) RIDGE CAP COLORED SELF-DRILLING SCREWS (H1050) PER PANEL WIDTH. (2" FROM EACH RIB AND 5" O/C IN BETWEEN). BE SURE THAT THE EDGE OF THE RIDGE CAP IS FLUSH WITH THE SLOPED FACE.

START THE RIDGE CAP FLUSH WITH THE SLOPED EDGE OF THE RAKE TRIM AS SHOWN IN THE DETAIL BELOW.

RIDGE CAP MUST BE PROPERLY POSITIONED BEFORE TOUCHING THE MASTIC. MASTIC CANNOT BE REUSED.

FASTEN THE RIDGE CAP TO THE RAKE TRIM USING SELF-DRILLING H1050 SCREWS. DO NOT PLACE ANY FASTENERS IN THE PEAK BOX. DOING SO WILL NOT ALLOW THE RAKE TRIM TO "FLOAT" WITH THE EXPANSION AND CONTRACTION OF THE ROOF SYSTEM



**TRIM\_400**

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08/12/2023				
		MBS	BLS	RHB
		MBS	BLS	RHB

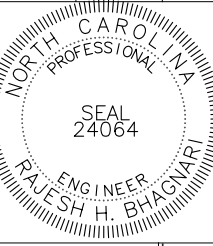
Engineering Performed By:  
**FINALS**  
 Nucor Corporation  
 200 Whetstone Rd.  
 Swansea, SC 29460  
 COA# F-1470

PROJECT NAME  
**CAMPBELL BASEBALL OPEN SHELTER**  
 76 UPCHURCH LANE, BUJES CREEK, NC 27506

CUSTOMER NAME  
**SOUTHEASTERN CONSTRUCTION OF BUJES CREEK, LLC**  
 BUJES CREEK, NC 27506

JOB NUMBER  
**A23B0716A**

SHEET TITLE  
**CERTIFIED ERECTION DETAILS**



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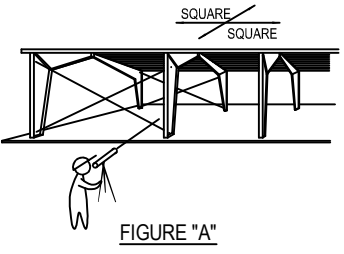
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**CE08**

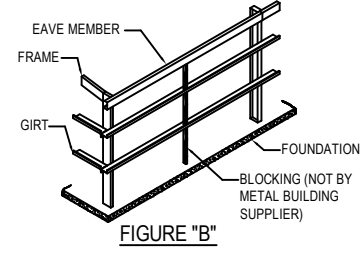


**BUILDING & PANEL PREPARATION**

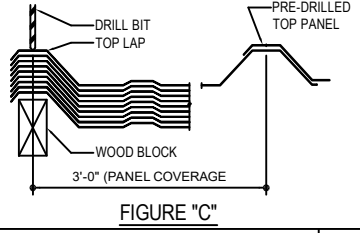
**STEP 1: PLUMB AND SQUARE**  
THE FIRST STEP IN THE SUCCESSFUL INSTALLATION OF WALL PANELS IS TO HAVE THE PRIMARY FRAMING PLUMB AND SQUARE. FOR BEST RESULTS, IT IS RECOMMENDED THAT A TRANSIT BE USED WHEN ERECTING THE STRUCTURAL STEEL. MAKE SURE THAT THE FOUNDATION AND BUILDING STRUCTURE IS SQUARE, LEVEL, AND CORRECT TO THE OUT-TO-OUT STEEL LINE DIMENSIONS. SEE FIGURE "A"



**STEP 2: GIRT BLOCKING**  
BLOCK GIRTS TO "LEVEL" POSITION BEFORE STARTING THE WALL SHEETING OR INSULATION. CHECK TO BE SURE THAT THE EAVE STRUT AND GIRTS ARE STRAIGHT AND PLUMB. TO ALIGN THE GIRTS, CUT TEMPORARY WOOD BLOCKING TO THE PROPER LENGTH AND INSTALL BETWEEN THE LINES OF GIRTS. THIS BLOCKING CAN BE MOVED FROM BAY TO BAY WHICH WILL REDUCE THE NUMBER OF PIECES REQUIRED. NORMALLY, ONE LINE OF BLOCKING PER BAY WILL BE SUFFICIENT BUT WIDER BAYS MAY REQUIRE MORE. IT IS RECOMMENDED TO BLOCK AT LEAST TWO BAYS AND LEAP FROG THE BLOCKING AS A BAY IS SHEETED. BLOCKING SHOULD NOT BE REMOVED UNTIL THE FULL BAY HAS BEEN SHEETED. SEE FIGURE "B"



**STEP 3: PRE-DRILL PANEL LAP**  
STACK PANELS WITH ENDS FLUSH ON A LEVEL PLACE ON THE GROUND IN PILES NOT EXCEEDING 10 PANELS. THEN PLACE SMALL WOODEN BLOCKS UNDER SIDE-LAPPING EDGE OF STACK OF PANELS TO HOLD THEM AT CORRECT HEIGHT AND POSITION WHILE DRILLING FASTENER HOLES. HOLD PANELS TOGETHER AT EACH END WITH CLAMPING PLIERS. CAREFULLY MARK POSITIONS FOR SIDE-LAP FASTENERS ON TOP OF HIGH RIB. FASTENERS SHOULD BE LOCATED "ON CENTER" OF HIGH RIB. DRILL HOLES FOR "STITCH" FASTENER (USE #1, .732" - 15/64" DRILL-BIT) ON TOP SHEET OF SIDE-LAP. BE SURE PANELS ARE WELL NESTED BEFORE DRILLING. SEE FIGURE "C"



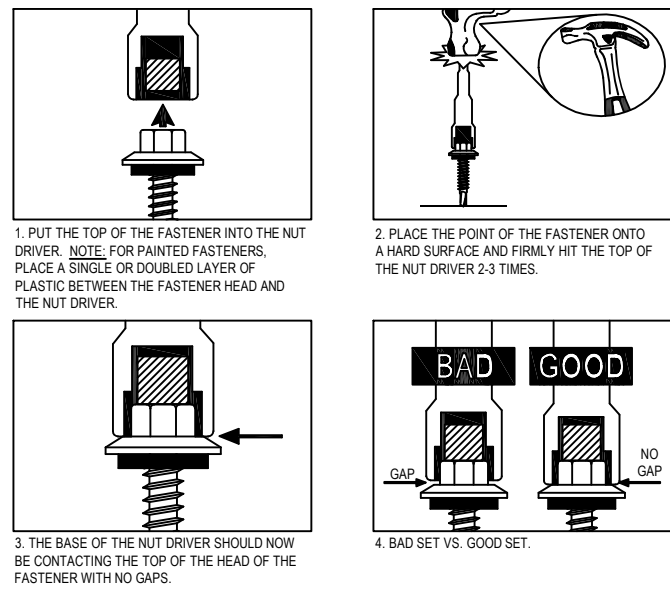
**FIELD CUTTING PANELS**

WHEN FIELD CUTTING OR MITERING WALL PANELS, NON-ABRASIVE CUTTING TOOLS SUCH AS NIBBLERS OR TIN-SNIPS SHALL BE USED. ABRASIVE CUTTING TOOLS SUCH AS MECHANICAL GRINDERS OR POWER SAWS CAN DAMAGE THE MATERIAL FINISH AND CREATE EXCESS METAL SHAVINGS THAT CAN CORRODE THE PANELS. THE USE OF NON-APPROVED CUTTING DEVICES MAY VOID THE FACTORY WARRANTY.  
  
ANY METAL SHAVINGS THAT ARE CREATED NEED TO BE CLEANED FROM THE PANEL TO PREVENT SCRATCHING AND/OR CORROSION. THE MANUFACTURER WILL NOT ACCEPT CLAIMS FOR DAMAGE/DETERIORATION DUE TO USE OF UNAPPROVED TOOLS.

**FASTENER INSTALLATION**

**RECOMMENDED TOOL TYPES:** SEE ALSO FASTENER SCHEDULE  
4 AMP OR HIGHER RATED TOOLS (DO NOT USE IMPACTING TOOLS)  
2000 - 2500 RPM SCREW GUN WITH TORQUE ADJUSTABLE CLUTCH  
MANUAL OR ELECTRIC RIVET TOOL  
  
**DO NOT USE IMPACTING TOOLS**  
TO ASSURE PROPER VOLTAGE TO THE TOOL, EXTENSION CORDS SHOULD BE CHECKED FOR PROPER WIRE SIZE/CHORD LENGTH.  
16 GAGE WIRE, MAXIMUM CHORD LENGTH = 100'  
14 GAGE WIRE, MAXIMUM CHORD LENGTH = 200'  
12 GAGE WIRE, MAXIMUM CHORD LENGTH = 300'

**DRIVING TIPS:**  
SET THE NUT DRIVER AS DESCRIBED BELOW PRIOR TO INSTALLING FASTENERS TO PREVENT FASTENER WOBBLE...  
  
COMPRESS THE INSULATION AT FASTENER LOCATION WITH ONE HAND WHILE DRIVING THE FASTENER WITH THE OTHER. THIS WILL HELP KEEP THE PANEL FLAT AND PREVENT THE FASTENER FROM "WALKING". DRIVE FASTENERS PERPENDICULAR TO PANEL SURFACE.  
  
EXCESSIVE PRESSURE CAN CAUSE DRILL POINT FAILURE. LET THE FASTENER DO THE WORK.  
  
DO NOT OVER TIGHTEN FASTENERS AS THIS WILL LEAD TO PANEL DIMPLING AND DISTORTION.



**PANEL INSTALLATION & FASTENER SEQUENCE**

**STEP 1: INSTALL FIRST PANEL**  
INSTALL THE FIRST WALL PANEL AT THE BUILDING CORNER AND ALIGN THE PANEL RIB WITH THE STEEL LINE AS SHOWN IN THE CORNER DETAILS USING THE START/FINISH DIMENSION SHOWN ON THE PLAN. IT IS EXTREMELY IMPORTANT THAT THE FIRST WALL PANEL IS INSTALLED PLUMB AND SQUARE. USE A LEVEL OR A TRANSIT TO AID IN THIS PROCESS.

PLACE A 1/8" SHIM ON THE BASE TRIM UNDER THE PANEL TO HOLD THE PANEL OFF THE BASE TRIM. ENSURE THAT THE WEIGHT OF THE PANEL DOES NOT FORCE BASE TRIM TO EXCESSIVELY BEND DOWN. BASE TRIM SHOULD HAVE A SLIGHT SLOPE TO ALLOW WATER TO RUN OUT AND NOT SIT ON BASE TRIM. SEE FIGURE "D" - TO RIGHT

WHEN INSTALLING THE PANEL, APPLY PRESSURE EVENLY TO AVOID DISTORTING THE PANEL AND CAUSING OIL CANNING. SEE FIGURE "E" - ABOVE

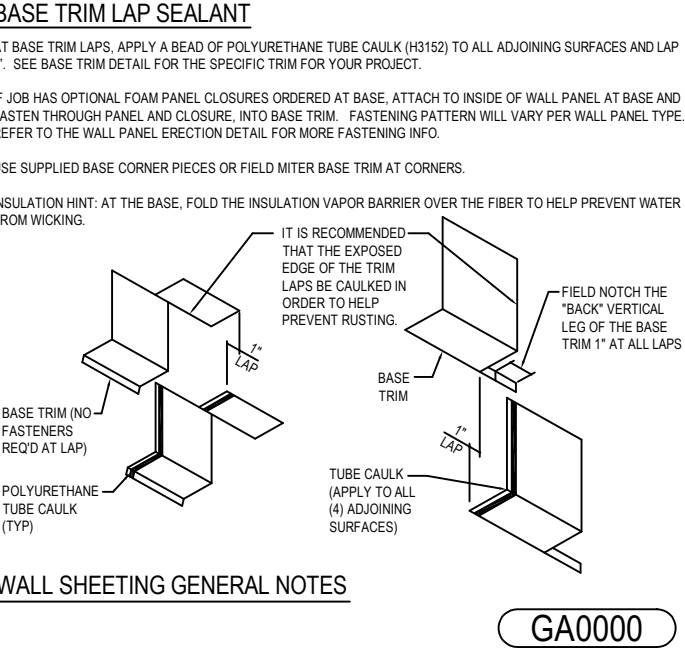
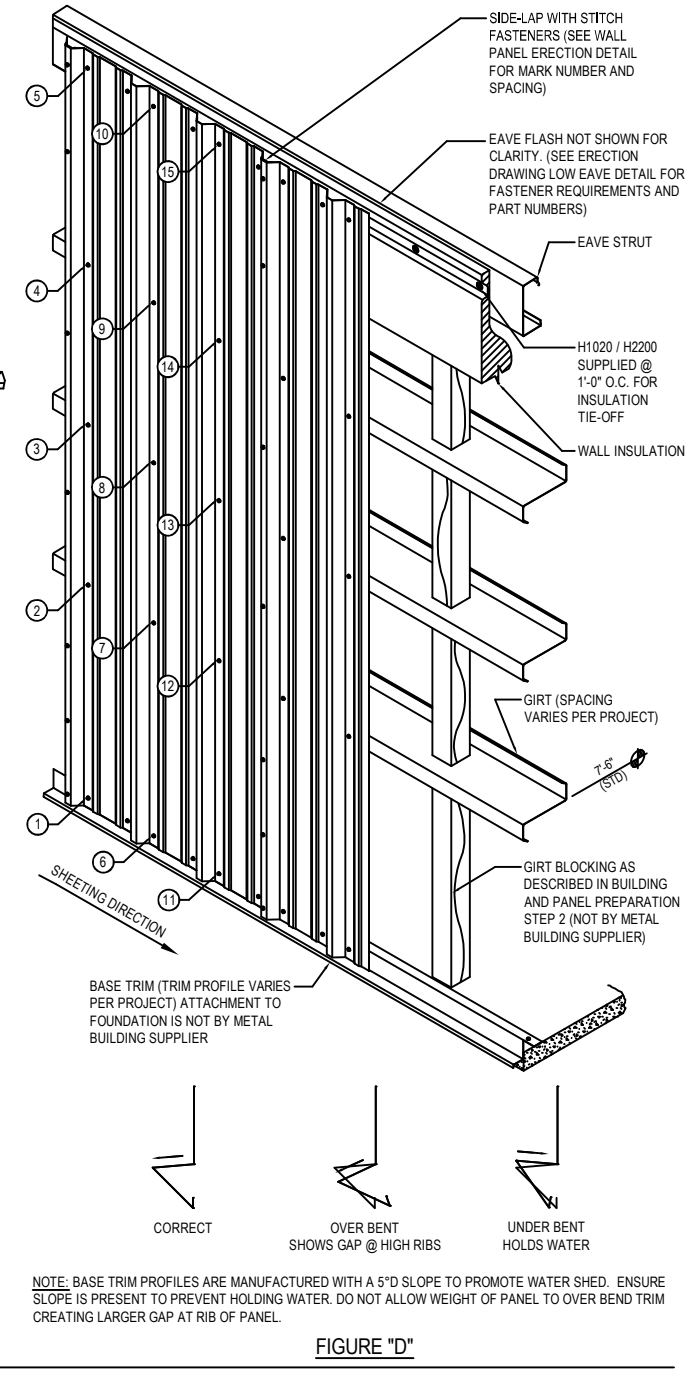
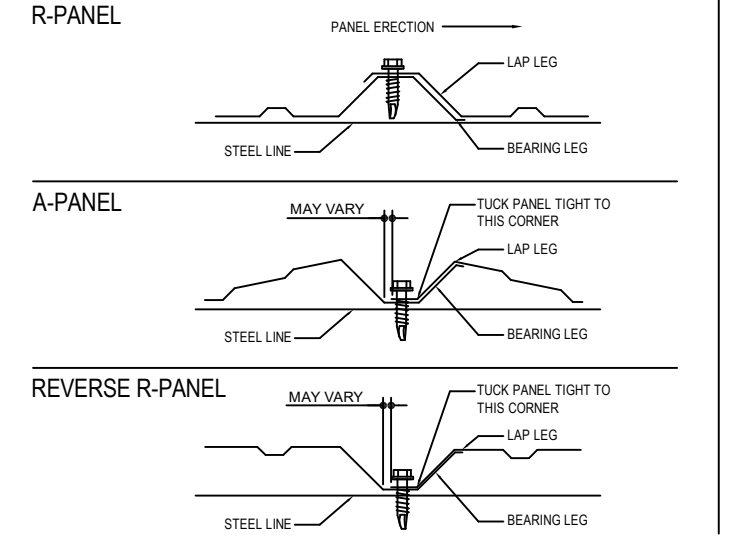
RECOMMENDED PANEL FASTENING SEQUENCE IS SHOWN TO THE RIGHT. THIS PATTERN AIDS IN PLUMBING AS WELL AS MAINTAINING PANEL COVERAGE / MODULARITY. SOME APPLICATIONS MAY REQUIRE MODIFIED SEQUENCE AND WILL BE BEST DETERMINED IN THE FIELD. **DO NOT ATTACH PANEL AT BASE AND TOP AND WORK TOWARD THE MIDDLE OF THE PANEL. THIS CREATES OIL CANNING. MANUFACTURER IS NOT RESPONSIBLE FOR FINAL APPEARANCE OF INSTALLED PANEL.**

**STEP 2: INSTALL SUBSEQUENT PANELS**  
INSTALL THE SECOND PANEL BY LAYING THE LAP EDGE OVER THE BEARING RIB OF THE FIRST PANEL. SEE BELOW FOR PROPER ALIGNMENT AT SIDE-LAP. CHECK PANEL PLUMBNESS AND FASTEN PANEL IN THE SAME SEQUENCE STARTING WITH THE STRUCTURAL FASTENERS ALONG THE LAP TO ENSURE A TIGHT SIDE-LAP. CONTINUE FOR THE REMAINDER OF THE WALL. CUTTING PANELS AROUND FRAMED OPENINGS AS REQUIRED. (TRIM SHOULD BE INSTALLED AROUND OPENINGS PRIOR TO INSTALLING PANEL)

**RECOMMENDED TIPS:**  
WALL PANELS CAN BE INSTALLED LEFT TO RIGHT OR RIGHT TO LEFT. IT IS RECOMMENDED TO INSTALL SHEETS STARTING OPPOSITE THE PREVAILING VIEW / WIND SO THAT THE SIDE-LAP SEAM IS AWAY AND LESS NOTICEABLE.

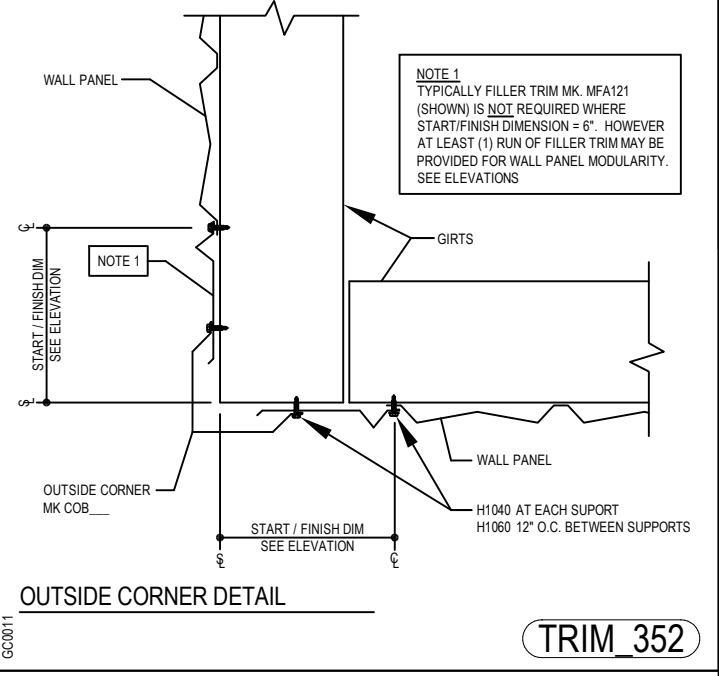
**PANEL ORIENTATION AND ALIGNMENT**

NOTE THE ORIENTATION OF THE PROFILE AND BEARING LEG FOR THE LEADING EDGE OF THE PANEL. PANELS SHOULD BE INSTALLED AS SHOWN BELOW TO HELP MAINTAIN PANEL MODULARITY / COVERAGE FOR THE LENGTH OF THE WALL.



**STANDARD FASTENER SCHEDULE**

<b>H1000</b> SELF-TAPPING SCREW (GOOF SCREW) 17-14 x 1" WITH WASHER LONG LIFE FASTENER 3/8" HEAD	<b>H1042</b> SELF-DRILLING SCREW 12-14 x 7/8" TCP3 W/O WASHER 5/16" HEAD	<b>H1070</b> SELF-DRILLING SCREW 12-24 x 1 1/2" TCP5 W/O WASHER 1/2" THK MAX DRILLING CAPACITY 5/16" HEAD
<b>H1020</b> SELF-DRILLING SCREW 1/4-14 x 1 1/4" TCP3 W/O WASHER 5/16" HEAD 3/16" THK MAX DRILLING CAPACITY	<b>H1045</b> SELF-DRILLING SCREW 12-14 x 2" TCP3 W/O WASHER 5/16" HEAD	<b>H1100</b> 1/8" x 3/16" STAINLESS STEEL BLIND POP RIVET
<b>H1030</b> SELF-DRILLING SCREW 12-14 x 1 1/4" TCP3 WITH WASHER LONG LIFE FASTENER 5/16" HEAD	<b>H1047</b> SELF-DRILLING SCREW 12-14 x 2" TCP3 FLAT TOP WITH WASHER 5/16" HEAD	<b>H1110</b> 3/8" STAINLESS GROMMET FASTENER
<b>H1035</b> SELF-DRILLING SCREW 12-14 x 1 1/2" TCP3 WITH WASHER LONG LIFE FASTENER 5/16" HEAD	<b>H1050</b> SELF-DRILLING SCREW 1/4-14 x 7/8" TCP1 WITH WASHER LONG LIFE FASTENER 5/16" HEAD	<b>H1220</b> SELF-DRILLING SCREW 12-14 x 1" TCP3 W/O WASHER PHILLIPS HEAD
<b>H1040</b> SELF-DRILLING SCREW 12-14 x 1 1/4" TCP3 W/O WASHER 5/16" HEAD	<b>H1060</b> SELF-DRILLING SCREW 1/4-14 x 7/8" TCP1 W/O WASHER 5/16" HEAD	<b>PRE-DRILL DIAMETERS</b>
<b>H1041</b> SELF-DRILLING SCREW 12-14 x 1 1/4" TCP3 FLAT TOP WITH WASHER 5/16" HEAD	<b>H1061</b> SELF-DRILLING SCREW 1/4-14 x 7/8" TCP1 FLAT TOP WITH WASHER 5/16" HEAD	3/16" FOR: H1020, H1070 5/32" FOR: H1030, H1035, H1040, H1041, H1042, H1045, H1047, H1220 1/8" FOR: H1050, H1060, H1061



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CAMPBELL BASEBALL OPEN SHELTER	
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BUJES CREEK, NC 27506	
JOB NUMBER	
A23B0716A	
SHEET TITLE	
CERTIFIED ERECTION DETAILS	
Engineering Performed By:	
Nucor Corporation	
200 Whetstone Rd.	
Swansea, SC 29460	
COA# F-1470	

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CERTIFIED ERECTION DETAILS

**SHEET**  
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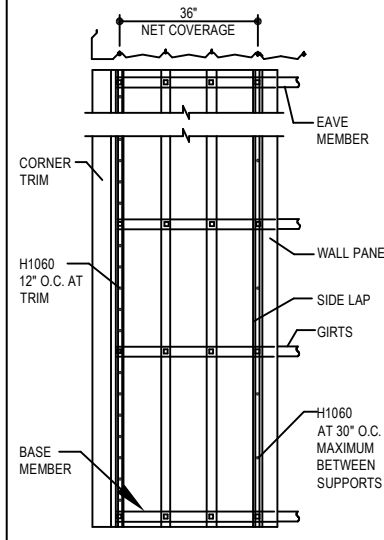
**SEAL**  
24064

**ENGINEER**  
RAJESH H. BHAGNARI

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- H1060 STITCH FASTENER
- H1040 STRUCTURAL FASTENER

1. BLOCK GIRTS TO "LEVEL" POSITION BEFORE STARTING PANEL ERECTION. MAINTAIN WOOD BLOCKING (NOT BY METAL BUILDING SUPPLIER) UNTIL PANEL TO STRUCTURAL FASTENERS ARE INSTALLED.
2. ALIGN AND PLUMB FIRST WALL PANEL.
3. TO PREVENT "OIL-CANNING", ALL PANEL FASTENERS SHOULD START FROM BASE MEMBER AND THEN BE SECURED TO EACH STRUCTURAL GIRT TOWARD THE EAVE.
4. FOUNDATION MUST BE SQUARE, LEVEL, AND CORRECT TO THE OUT-TO-OUT STEEL LINE DIMENSIONS.
5. ERECTION CREW IS TO CLEAN ALL WALL PANELS BEFORE LEAVING JOB SITE.
6. ERECTOR IS TO ERECT PANELS SO THAT SIDELAPS ARE AWAY FROM THE MAIN TRAFFIC AREA'S LINE OF SIGHT.
7. STORE PANELS PROPERLY TO PREVENT MOISTURE. SEE ERECTION MANUAL.
8. AT FLUSH GIRTS CONDITIONS, PRE-DRILL COLUMNS (& STUBS IF REQ'D) FOR EASE OF PANEL ATTACHMENT AT THESE AREAS.
9. INSTALL BASE PANEL CLOSURES (IF JOB REQUIRES THEM). SEE BASE TRIM DETAILS.



**WALL PANEL ERECTION**

ERECTOR NOTE: 1/2" SIDELAP MASTIC (H3010) IS REQUIRED IN SNOWDRIFT CONDITIONS. REFER TO THE ELEVATIONS FOR LOCATION REQUIREMENTS.

**TRIM 534**

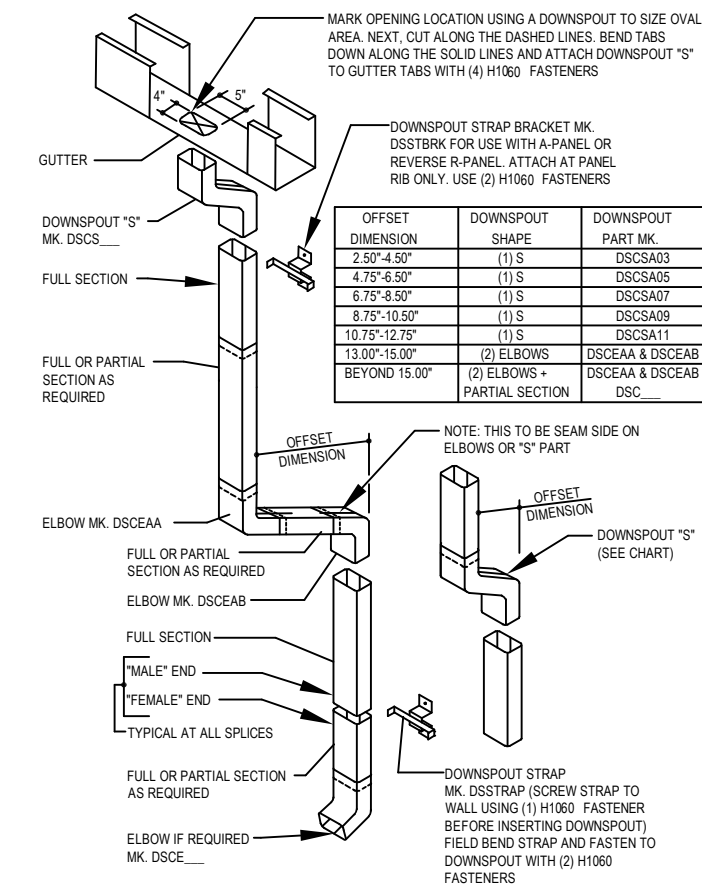
**ERECTOR NOTE:**  
 1. MITERING OF THE "S" WILL BE REQUIRED AT SLOPES OVER 4:12 FOR PROPER LINE UP WITH THE DOWNSPOUT.  
 2. IF PROJECT CONTRACT SPECIFIES "S" SHAPES AT THE BOTTOM OF THE DOWNSPOUT IN LIEU OF ELBOWS, SEE DETAIL GA0105.

USE (4) POP RIVETS MK. H1100 AT ALL ELBOWS, "S", AND DOWNSPOUT SPLICES U.N.O.

USE DOWNSPOUT STRAPS MK. DSSTRAP AS FOLLOWS:  
 (1) AT DOWNSPOUT "S"  
 (1) AT THE ELBOW(S) OR "S" AT OFFSET  
 (1) AT EACH DOWNSPOUT SPLICE

DOWNSPOUT STRAP (MK. DSSTRAP) AND STRAP BRACKETS (MK. DSSTRBK) ARE ALSO PROVIDED FOR MASONRY WALL APPLICATIONS AS WELL AS FOR ATTACHMENT TO COLUMNS. FASTENERS TO MASONRY ARE NOT PROVIDED. H1060 FASTENERS ARE PROVIDED FOR COLUMN ATTACHMENT APPLICATIONS, PRE-DRILLING WILL BE REQUIRED.

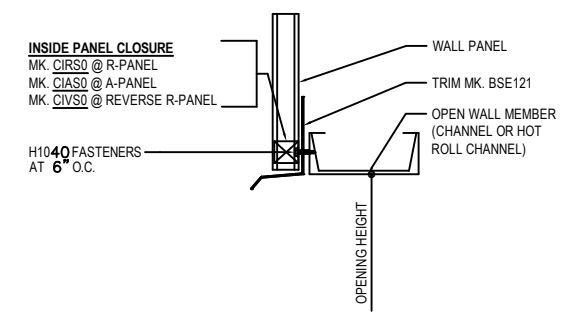
NOTE: GUTTER PROFILE MAY VARY. SEE LOW EAVE GUTTER DETAIL.



**CORRUGATED DOWNSPOUT AT INSET WALL**  
 REFERENCE DOWNSPOUT SCHEDULE FOR DOWNSPOUT MARK NUMBERS

**GA0230**

**ERECTOR NOTE:**  
 UNTIL WALL PANELS ARE INSTALLED, (3) H1040 SCREWS ARE TO BE USED FOR TEMPORARY INSTALLATION OF THE BASE TRIM. FIELD MITER BASE TRIM AT CORNERS.



**DRIP BASE TRIM DETAIL AT OPEN WALL**

SEE WALL SHEETING ERECTION DETAIL FOR WALL PANEL FASTENER LOCATIONS

**GB0140**

DATE	08/12/2023
CHK	RHB
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ISSUE	FINALS

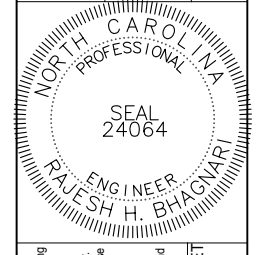
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