

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:

- ALL A490 BOLTS SHALL BE "FULLY-PRETENSIONED".
- ALL A325 BOLTS IN PRIMARY FRAMING (RIGID FRAMES AND BRACING) MAY BE "SNUG-TIGHT", EXCEPT AS FOLLOWS: "FULLY-PRETENSION" A325 BOLTS IF:
 - BUILDING SUPPORTS A CRANE SYSTEM WITH A CAPACITY GREATER THAN 5 TONS.
 - BUILDING SUPPORTS MACHINERY THAT CREATES VIBRATION, IMPACT, OR STRESS-REVERSALS ON THE CONNECTIONS. THE ENGINEER-OF-RECORD FOR THE PROJECT SHOULD BE CONSULTED TO EVALUATE FOR THIS CONDITION.
 - THE PROJECT SITE IS LOCATED IN A HIGH SEISMIC AREA. FOR 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.
 - 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.
- 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:

- 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.
- 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.
- 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.
- ALL WELDING OF COLD FORMED STEEL IS BASED ON AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL" OR CAN/CSA W59 "WELDED STEEL CONSTRUCTION (METAL ARC WELDING)", AS REQUIRED BY THE SPECIFIED BUILDING CODE.
- ALL NUCOR BUILDING GROUP FACILITIES ARE 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.
- 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.
- 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

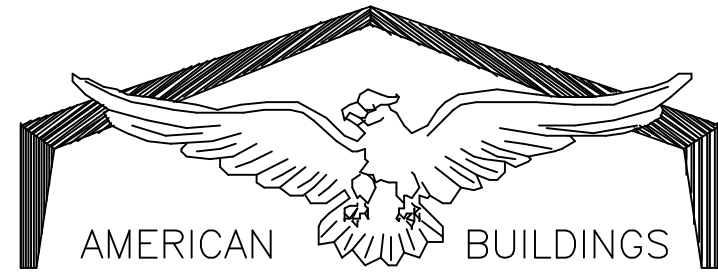
- YES NO LINER PANELS
FRAMED OPENING TRIM, PAINTED: _____
WALL: TYPE: _____ GAUGE: _____ FINISH: _____ WALL TRIM, PAINTED: _____
CEILING: TYPE: _____ GAUGE: _____ FINISH: _____
- YES NO TRANSLUCENT PANELS
WALL: _____
ROOF: _____
INSULATED PANELS? YES NO
- YES NO EAVE EXTENSION
PROJ: _____ TYPE: _____ 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: _____
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	MAX = MAXIMUM	REQ'D = REQUIRED
BS = BOTH SIDES	M.B. = MACHINE BOLTS	REV. = REVISION
B.U. = BUILT-UP	MBS = METAL BUILDING SUPPLIER	SIM = SIMILAR
DIA = DIAMETER	TBD = TO BE DETERMINED	SL = STEEL LINE
FLG = FLANGE	N/A = NOT APPLICABLE	N.S. = NEAR SIDE
F.S = FAR SIDE	NIC = NOT IN CONTRACT	MIN = MINIMUM
GA. = GAUGE	SLV = SHORT LEG VERTICAL	TYP = TYPICAL
H.S.B. = HIGH STRENGTH BOLTS	O.A.L. = OVERALL LENGTH	PL = PLATE
HT. = HEIGHT	O.C. = ON CENTER	
LLV = LONG LEG VERTICAL	U.N.O. = UNLESS NOTED OTHERWISE	
PEMB = PRE-ENGINEERED METAL BUILDING MANUFACTURER		
?? = PART MARK TO BE DETERMINED AND WILL BE UPDATED ON CONSTRUCTION DRAWINGS		

BUILDING INFORMATION



AMERICAN BUILDINGS

a NUCOR brand

MBMA
MEMBER

IAS
ACCREDITED
Metal Building Systems
AC 472

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

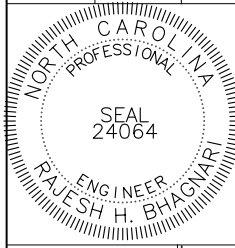
DRAWING INDEX

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

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
JOB NUMBER
A23B0716A



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SHEET TITLE
COVERSHEET

SHEET NUMBER
A23B0716A

SHEET
C1 of 2

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

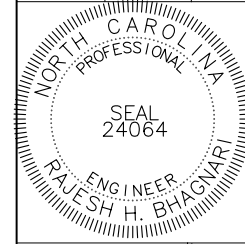
THIS BUILDING SYSTEM DESIGN IS BASED ON UNIFORMLY APPLYING THE CONTRACT-SPECIFIED LIVE LOAD AND ROOF SNOW LOAD. IN ADDITION, THE DESIGN IS BASED ON APPLYING A CODE-DEFINED LIVE LOAD (INCLUDING APPLICABLE REDUCTIONS) AND A CODE-DEFINED SNOW LOAD (BASED ON CONTRACT-SPECIFIED GROUND SNOW) FOR ALL PARTIAL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

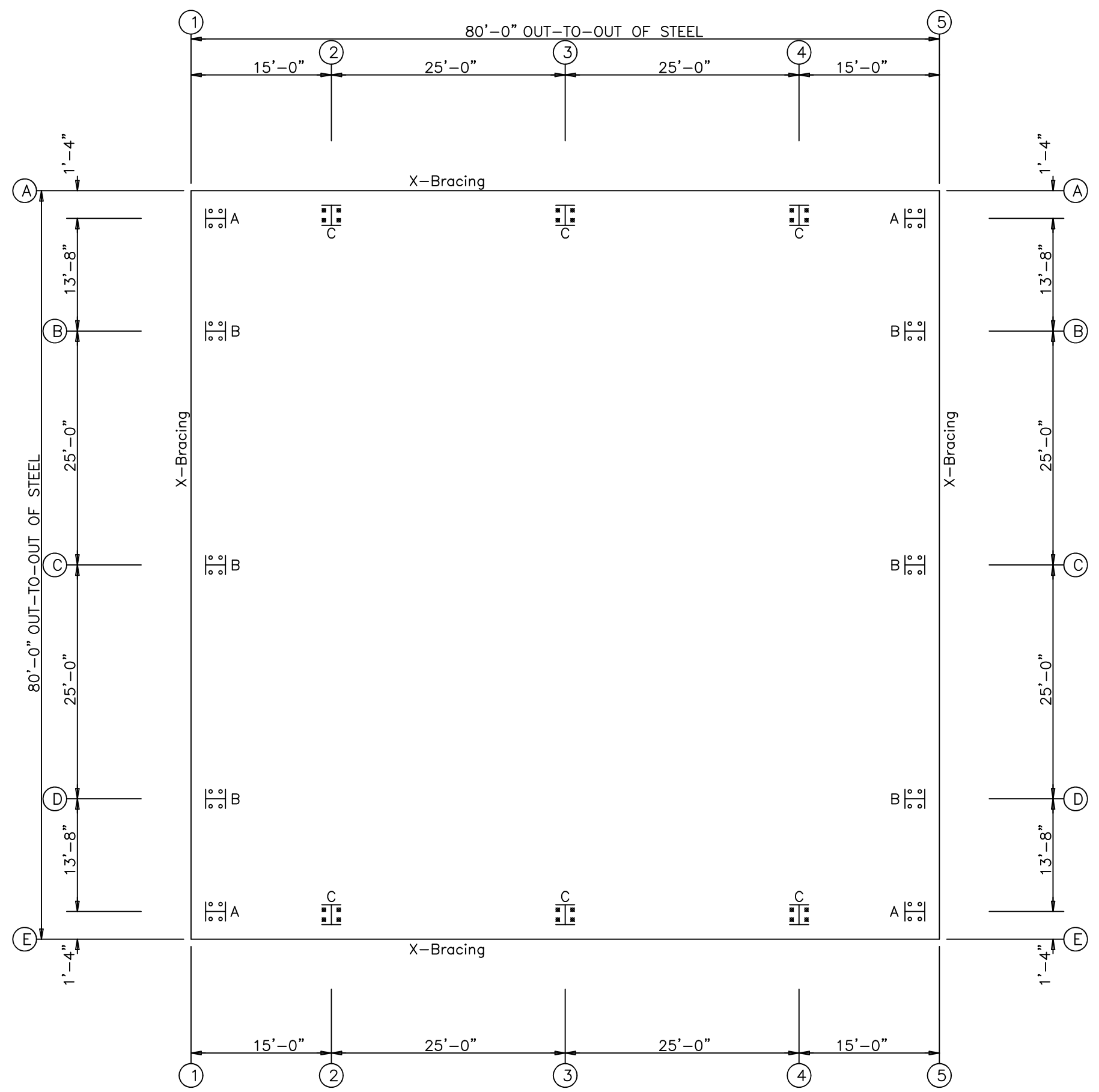
ISSUE	ANCHOR RODS	PERMITS	FINALS	DATE
DOWN	MBS	BKS	RHB	07/21/2023
CHK	MBS	BKS	RHB	07/21/2023
ENG	MBS	BKS	RHB	08/12/2023
PE				

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.



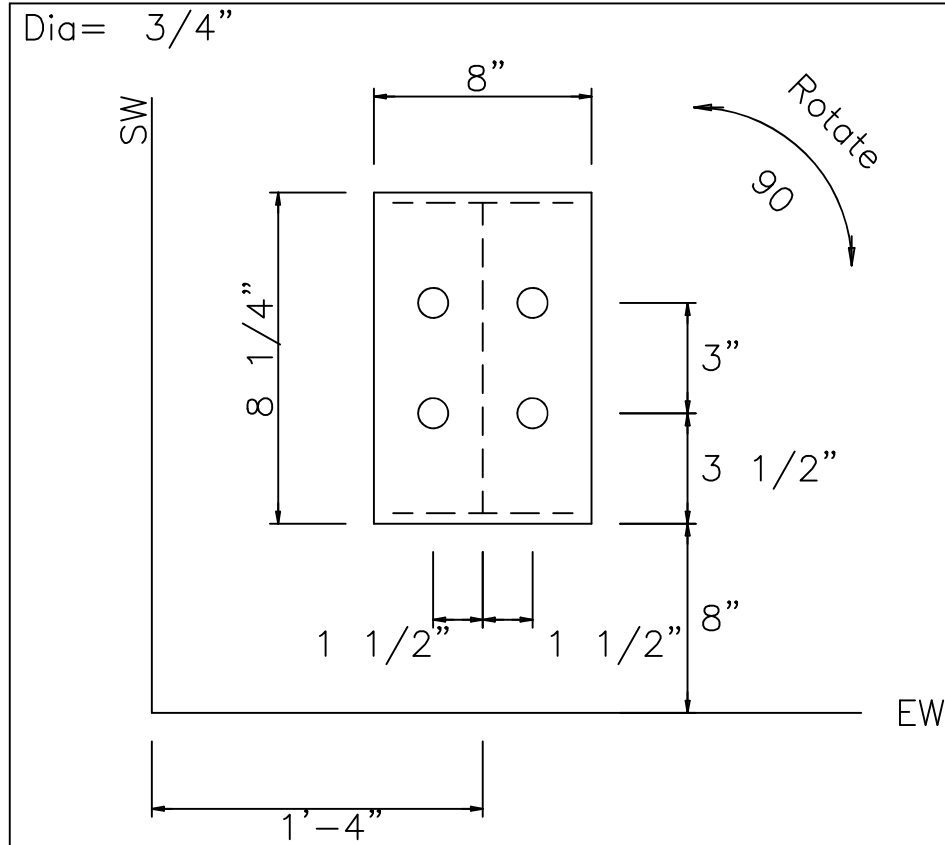
ANCHOR BOLT PLAN
NOTE: All Base Plates @ 100'-0" (U.N.)

PROJECT NAME	CAMPBELL BASEBALL OPEN SHELTER	Engineering Performed By:	Nucor Corporation
CUSTOMER NAME	76 UPCHURCH LANE, BUIES CREEK, NC 27506	ANCHOR RODS	ANCHOR RODS
JOB NUMBER	A23B0716A	PERMITS	PERMITS
SHEET NUMBER	A23B0716A	FINAL	FINAL
SHEET TITLE	ANCHOR BOLT PLAN	DATE	07/21/2023
		DATE	07/21/2023
		DATE	08/12/2023

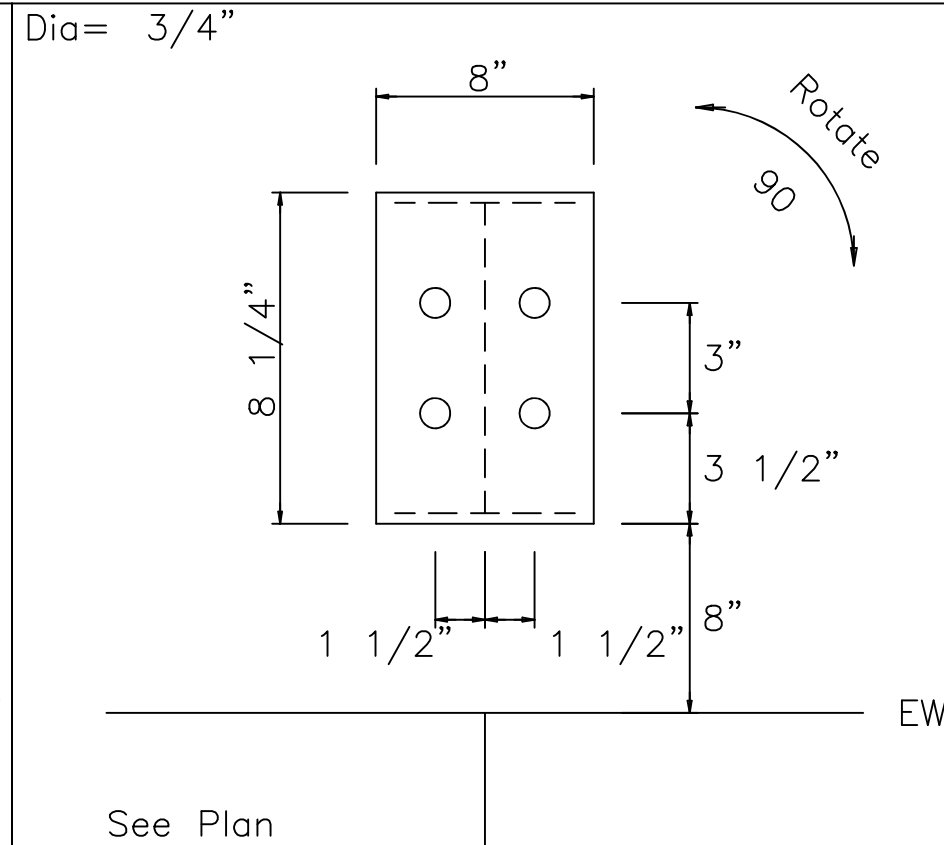
RAJESH H. BHAGNARI
ENGINEER
SEAL 24064
NORTH CAROLINA PROFESSIONAL

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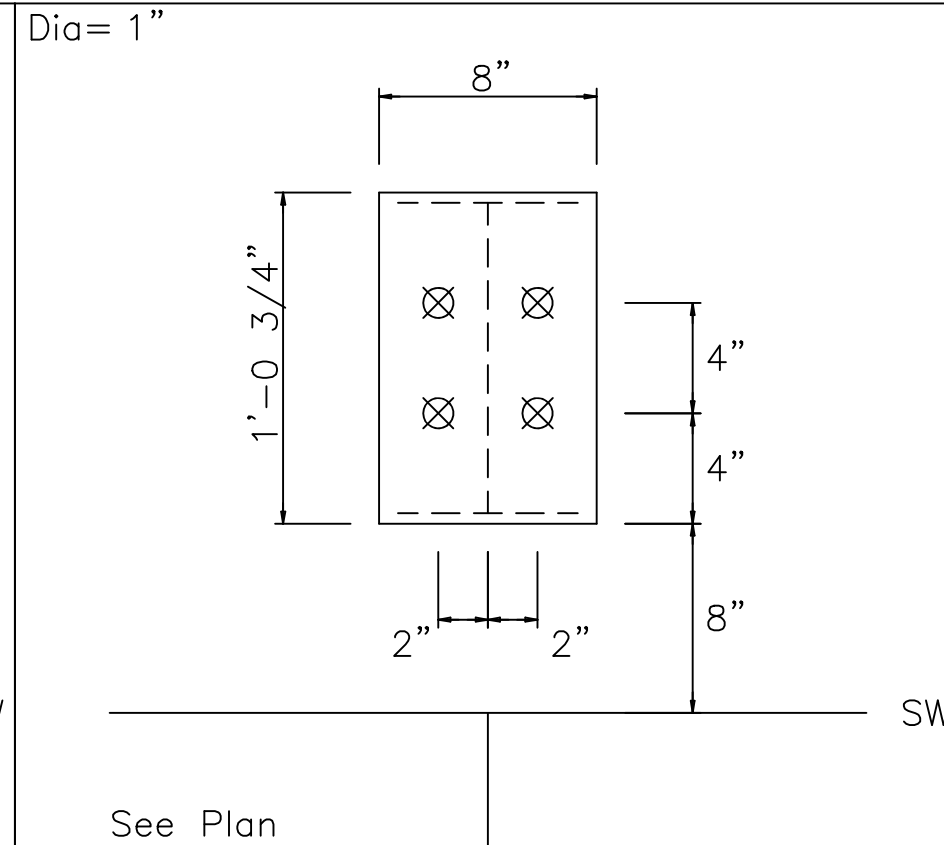
SHEET
F1 of 2



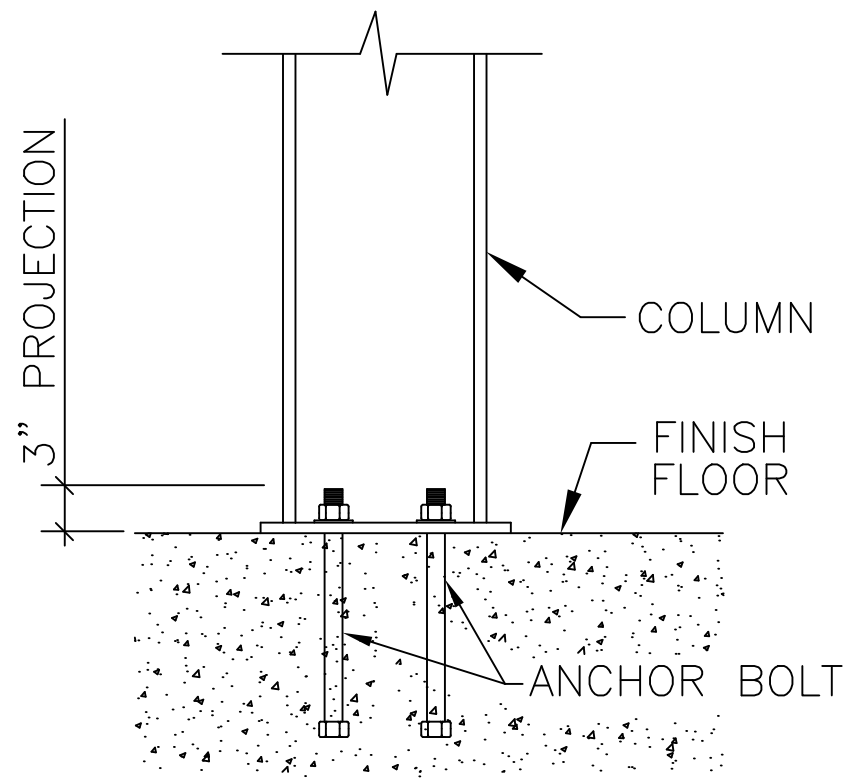
DETAIL A



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

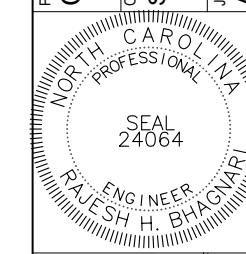
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 CAMPBELL BASEBALL OPEN SHELTER
 76 UPCHURCH LANE, BUIES CREEK, NC 27506

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

JOB NUMBER
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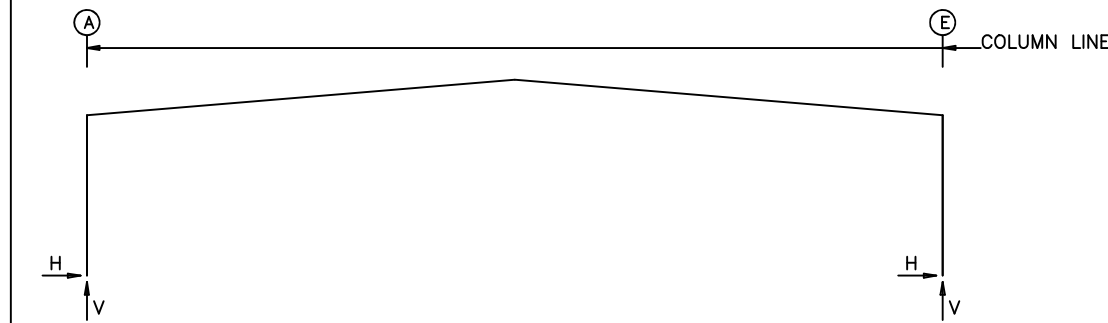
SHEET TITLE
 BASE PLATE DETAILS



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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_{ult}).
- POSITIVE (+) REACTIONS ARE AS SHOWN ABOVE. FOUNDATION LOADS ARE IN OPPOSITE DIRECTIONS.
- BRACING REACTIONS ARE IN THE PLANE OF THE BRACE WITH THE HORIZONTAL REACTION (H) ACTING AWAY FROM THE BRACED BAY AND THE VERTICAL REACTION (V) ACTING DOWNWARD.

***** RIGID FRAME LOAD CASE ABBREVIATIONS: *****

Wind_L1/Wind_R1: LATERAL WIND FROM THE LEFT/RIGHT, CASE 1
 Wind_L2/Wind_R2: LATERAL WIND FROM THE LEFT/RIGHT, CASE 2
 Wind_Ln1/Wind_Ln2: LONGITUDINAL WIND, CASE 1/2
 Seismic_L/Seismic_R: LATERAL SEISMIC LOAD FROM LEFT/RIGHT
 LWIND#_L#/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		

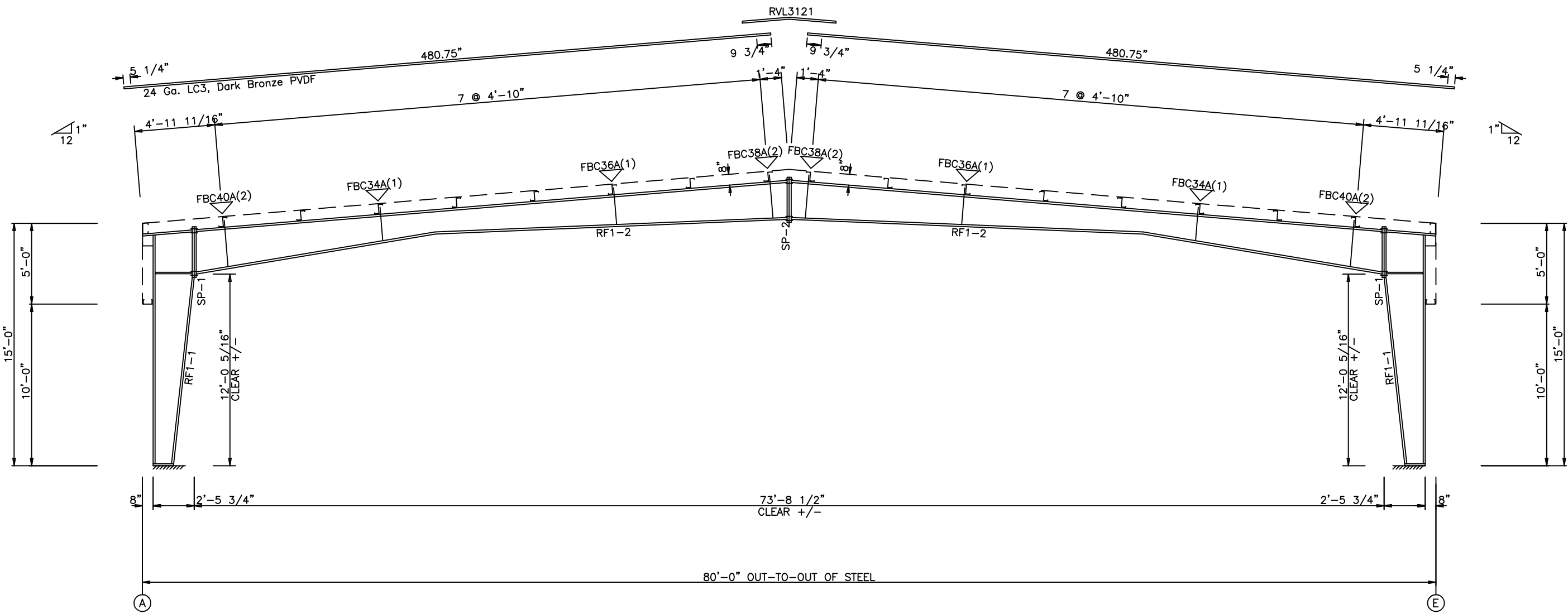
DATE	CHK	ENG	PE
07/21/2023	BKK	RHB	
07/21/2023	MBS	RHB	
08/12/2023	MBS	BLS	

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
REACTIONS

Seal and stamp area for the engineer, including the text 'NORTH CAROLINA PROFESSIONAL ENGINEER' and 'RAJESH H. BHAGNARI'.

Small disclaimer text: 'The seal and stamp are to be used only by the registered professional engineer...'



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	RHB

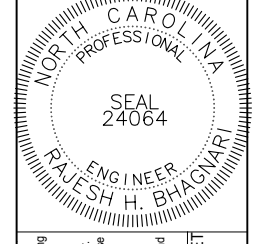
Engineering Performed By:
 Nucor Corporation
 200 Whetstone Rd.
 Swansea, SC 29460
 COA# F-1470

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

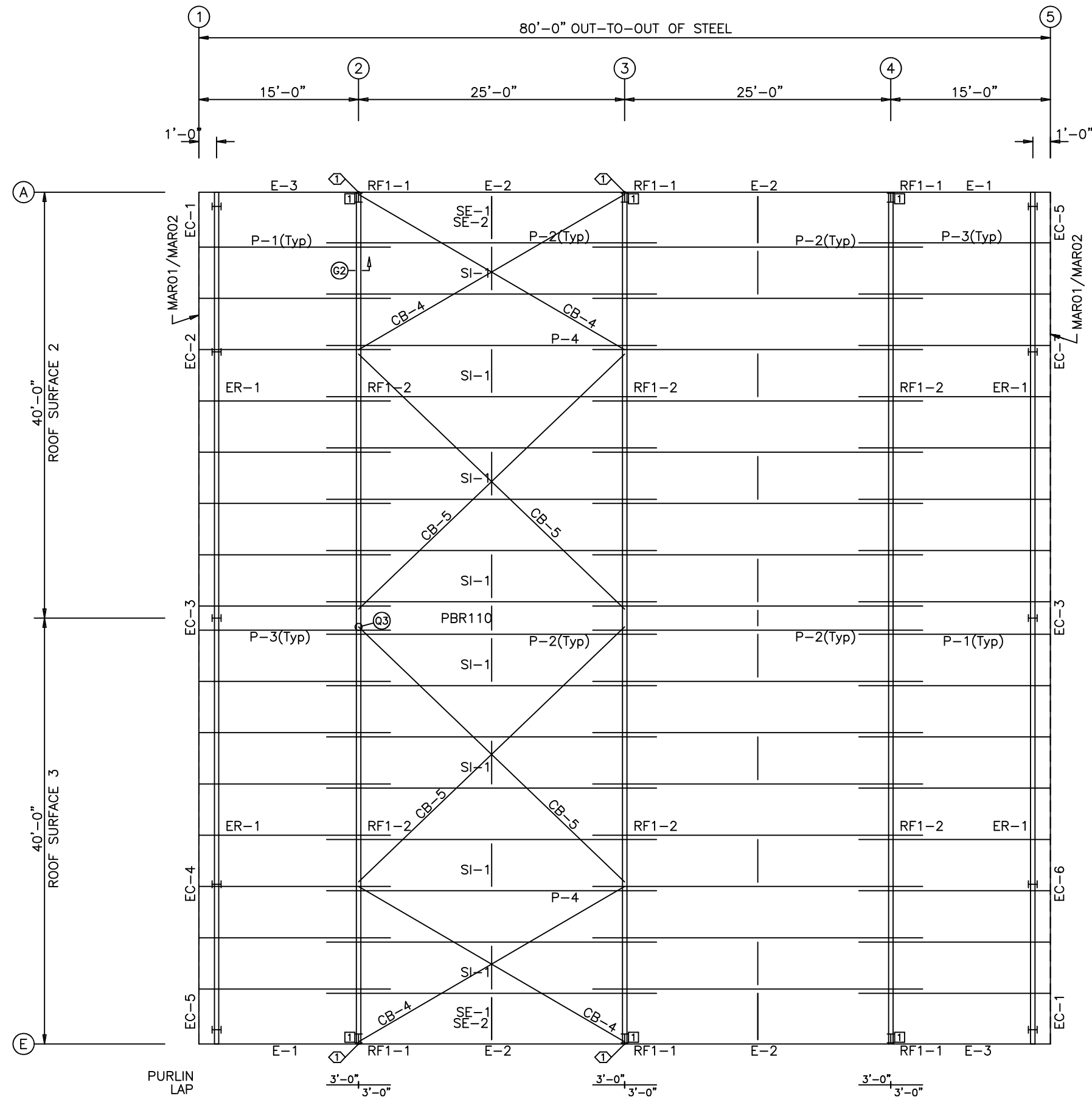
JOB NUMBER
 A23B0716A

SHEET TITLE
 RIGID FRAME CROSS SECTION



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SHEET
E1 of 7



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

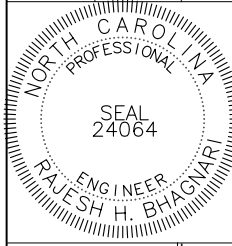
MEMBER TABLE		
ROOF PLAN		
MARK	PART	LENGTH
P-1	08Z060	215.750
P-2	08Z060	372.000
P-3	08Z060	215.750
P-4	08Z089	372.000
E-1	08E060	179.625
E-2	08E075	299.750
E-3	08E060	179.625
CB-4	RD05-	346.000
CB-5	RD05-	421.000
PBR110	PBR110	16.000
SI-1	PBX-	60.500
SE-1	PBX-	62.250
SE-2	PBX-	62.750

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

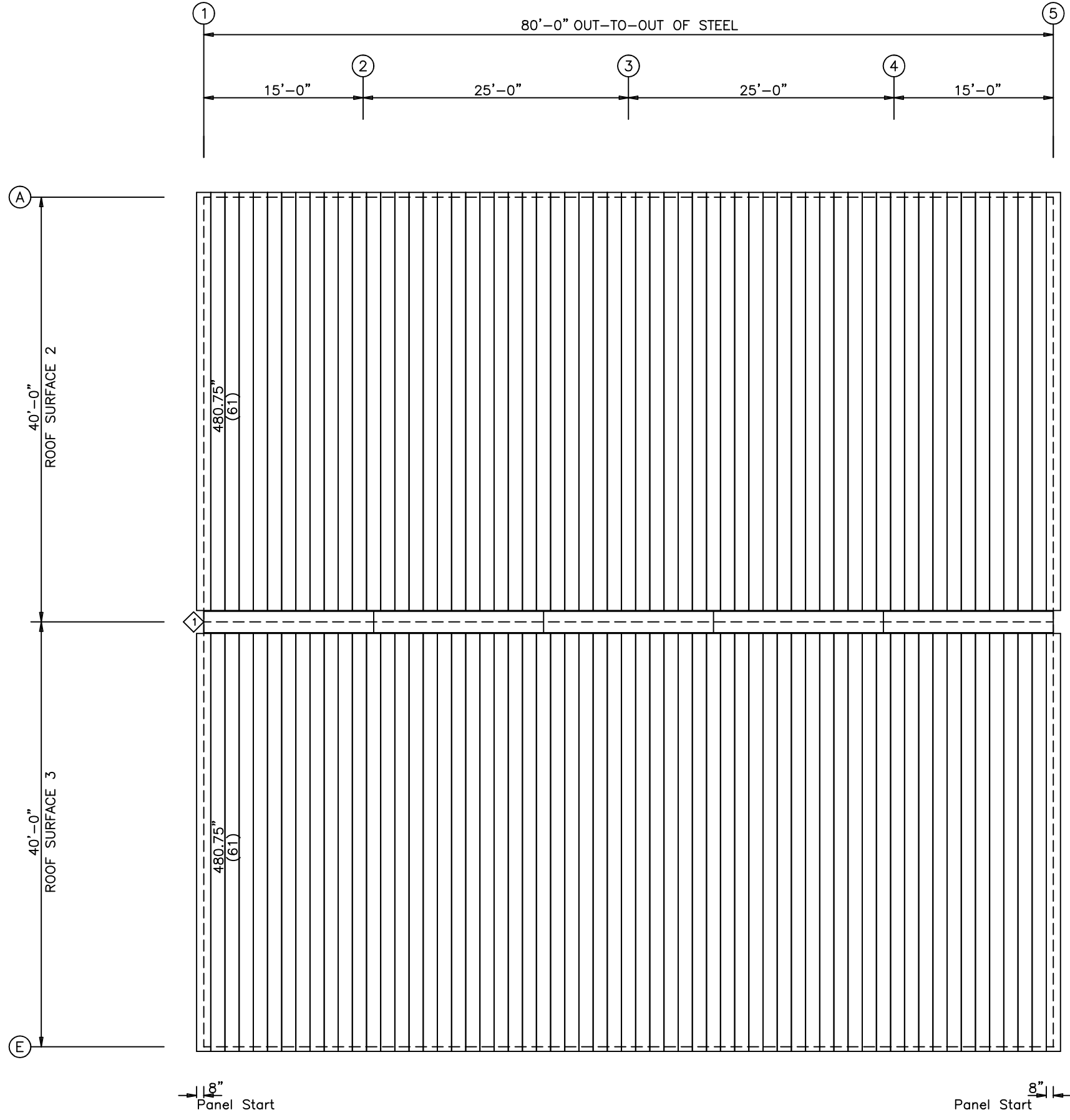


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SHEET
 E2 of 7

ROOF FRAMING PLAN

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



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

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

PERMITS
 FINALS

ISSUE	DATE	ENG	PE
	07/21/2023	RHB	
	08/12/2023	RHB	

DATE

07/21/2023

08/12/2023

CHK
 BKK RHB
 BLS RHB

DNV
 MBS
 MBS

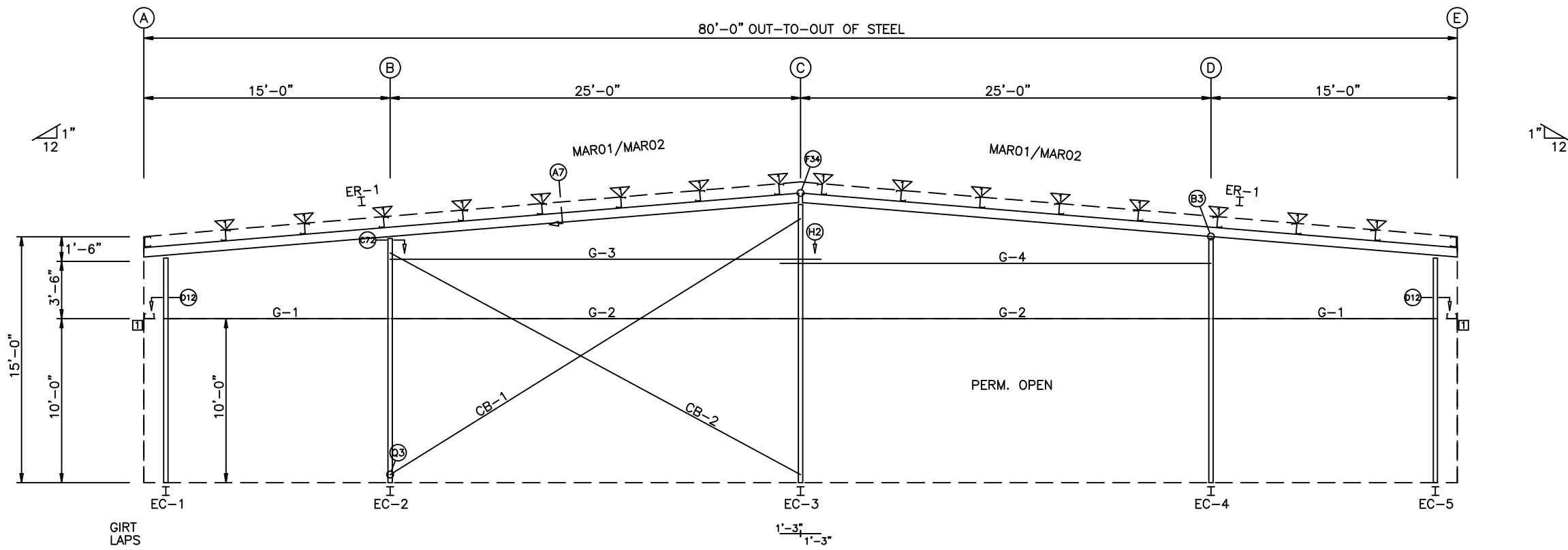
Panel Start 1/8" Panel Start 8"

SEAL
 24064
 ENGINEER
 RAJESH H. BHAGVARI

North Carolina Professional Engineer

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SHEET
 E3 of 7



ENDWALL FRAMING: FRAME LINE 1

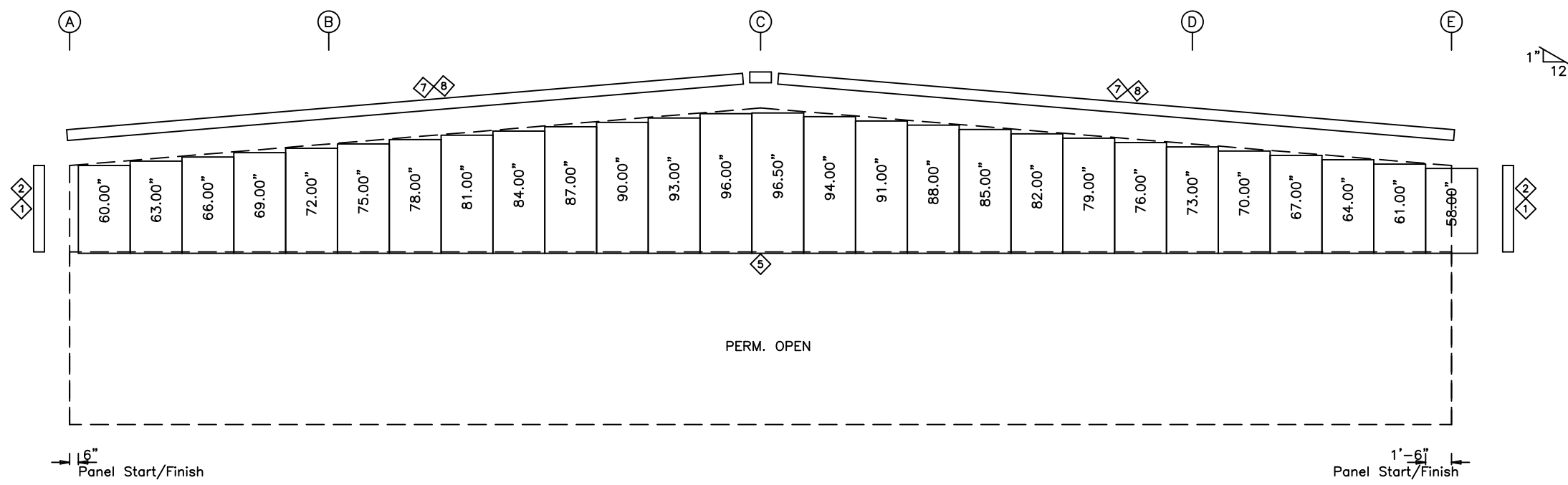
BOLT TABLE			
FRAME LINE 1			
LOCATION	QUAN	TYPE	DIA
ER-1/ER-1	4	A325	1/2"
Columns/Raf	4	A325	1/2"

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	

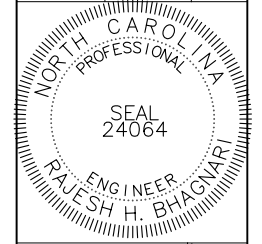
CONNECTION PLATES		
FRAME LINE 1		
ID	MARK/PART	
1	GCC03&bt	



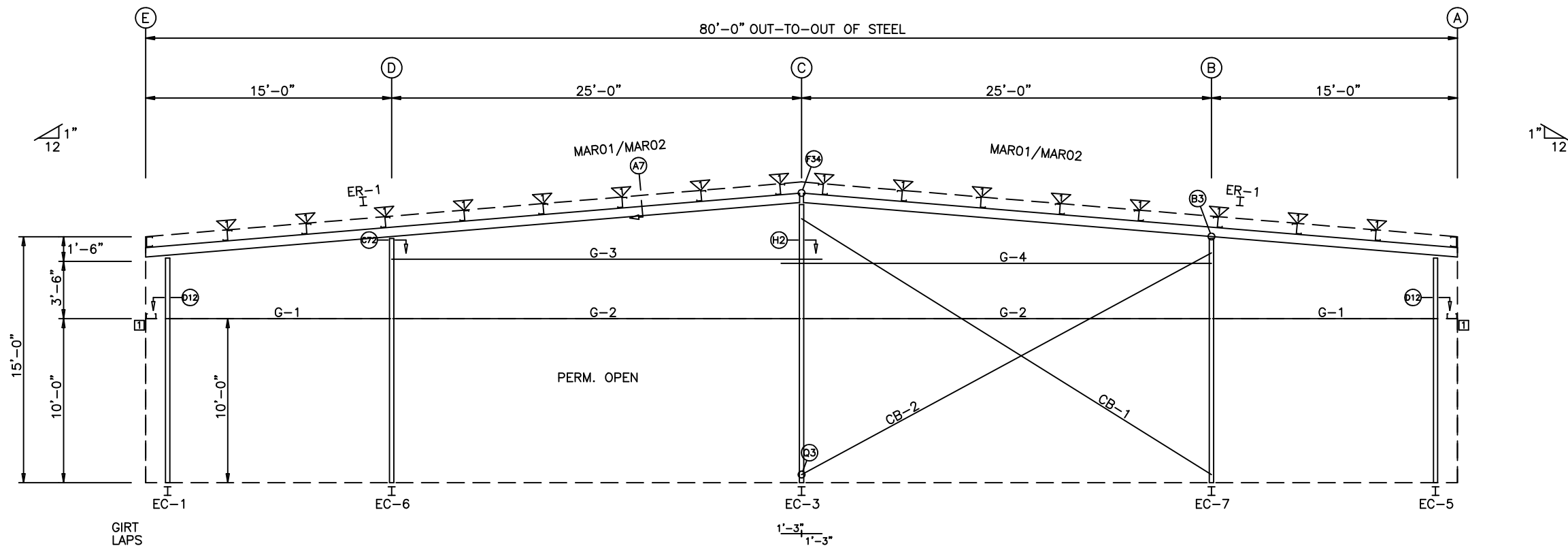
ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Ga. APW - Slate Gray PVDF

PROJECT NAME	CAMPBELL BASEBALL OPEN SHELTER
PROJECT ADDRESS	76 UPCHURCH LANE, BUIES CREEK, NC 27506
CUSTOMER NAME	SOUTHEASTERN CONSTRUCTION OF BUIES CREEK, LLC
CUSTOMER ADDRESS	BUIES CREEK, NC 27506
JOB NUMBER	A23B0716A
SHEET TITLE	LEFT ENDWALL ELEVATION
DATE	07/21/2023
DATE	08/12/2023
ISSUE	
PERMITS	
FINALS	
ENGINEERING PERFORMED BY:	Nucor Corporation 200 Whetstone Rd. Swansea, SC 29460 COA# F-1470



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ENDWALL FRAMING: FRAME LINE 5

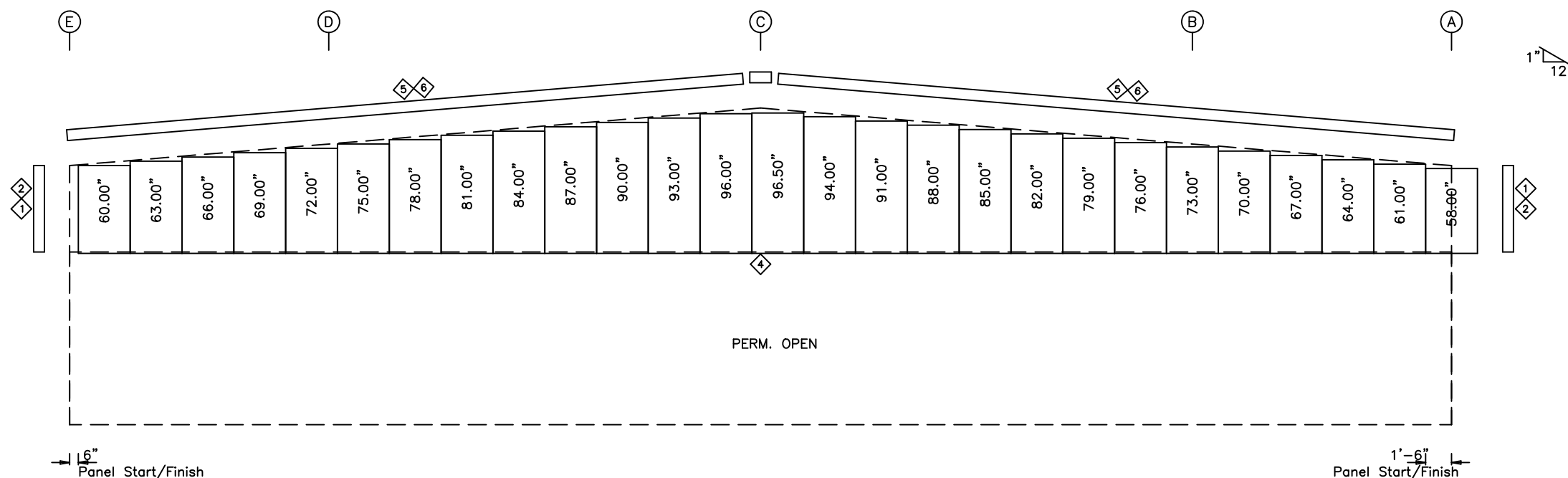
BOLT TABLE FRAME LINE 5				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-1	4	A325	1/2"	2"
Columns/Raf	4	A325	1/2"	2"

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	07/21/2023	08/12/2023		
ISSUE	CHK	ENG	PE		
	MBS	BKK	RHB		
	MBS	BLS	RHB		
PERMITS					
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
 BUIES CREEK, NC 27506

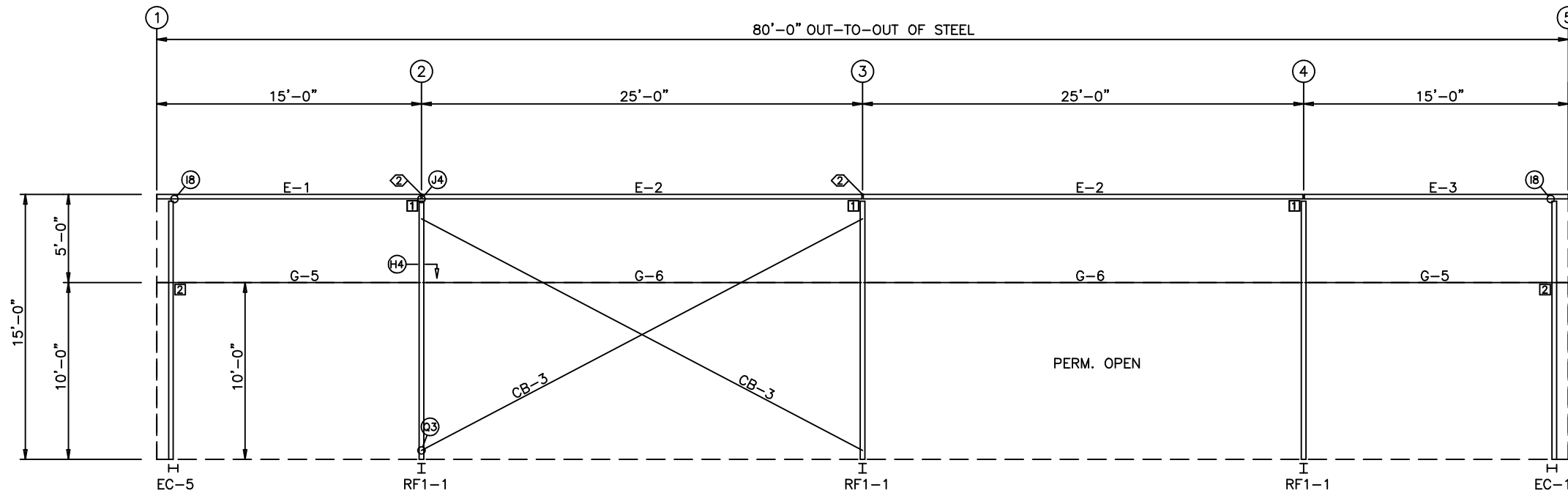
JOB NUMBER
 A23B0716A

SHEET TITLE
 RIGHT ENDWALL ELEVATION

NORTH CAROLINA
 PROFESSIONAL
 SEAL
 24064
 ENGINEER
 RAJESH H. BHAGWARI

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SHEET
 E5 of 7



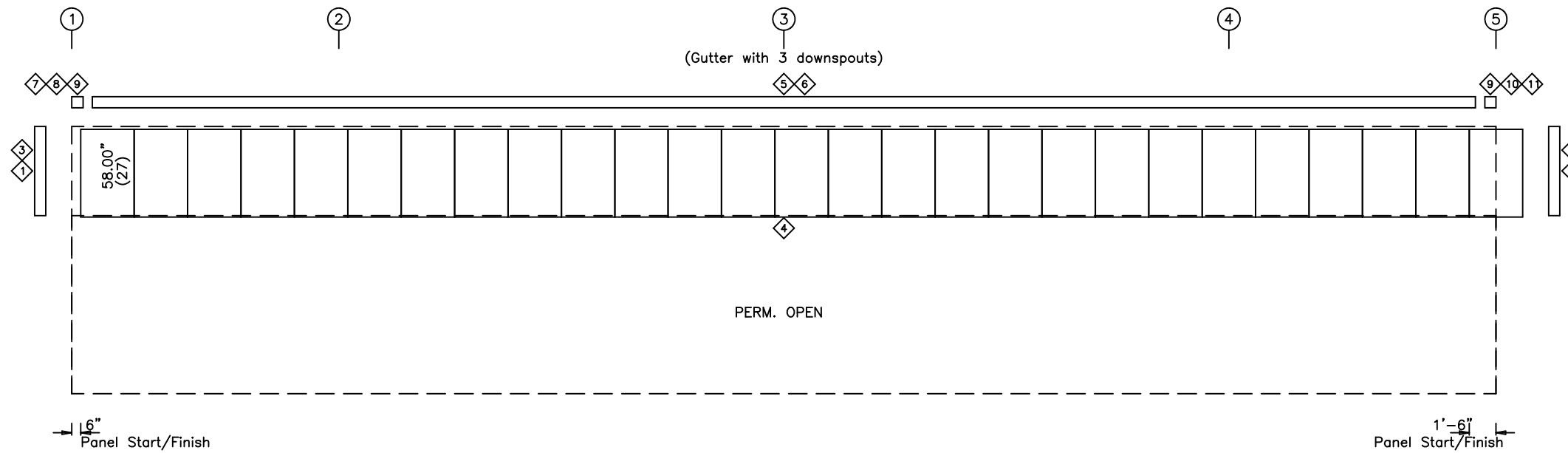
SIDEWALL FRAMING: FRAME LINE E

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



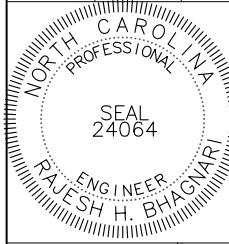
SIDEWALL SHEETING & TRIM: FRAME LINE E

PANELS: 26 Ga. APW - Slate Gray PVDF

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

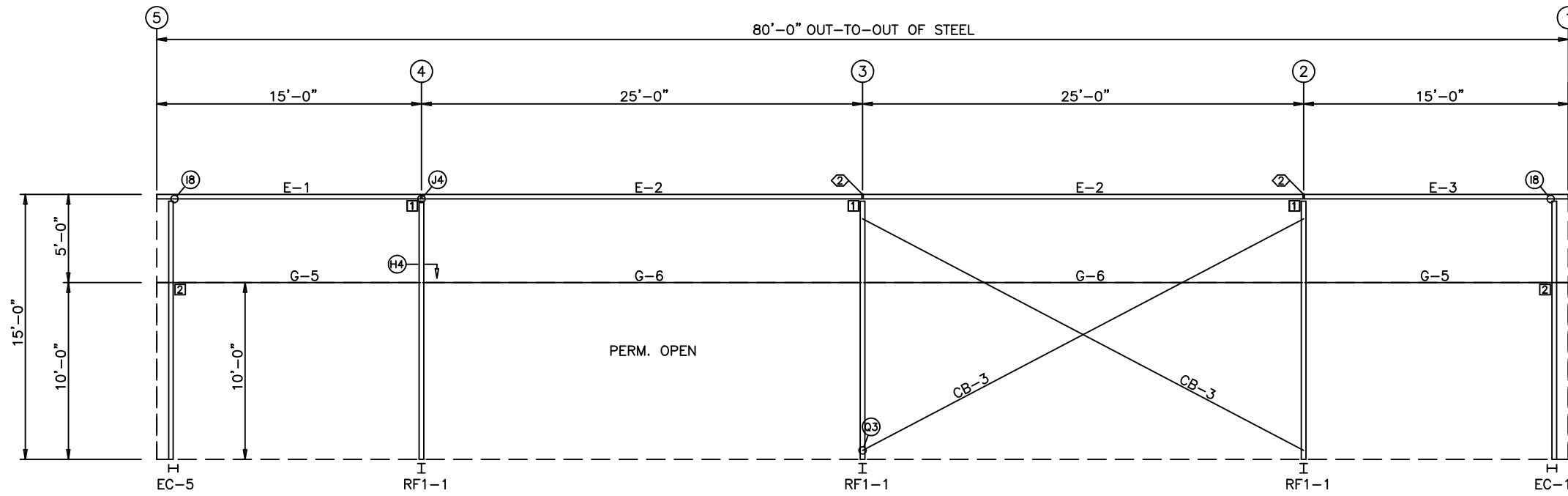
Engineering Performed By:
 Nucor Corporation
 200 Whetstone Rd.
 Swansea, SC 29460
 COA# F-1470

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



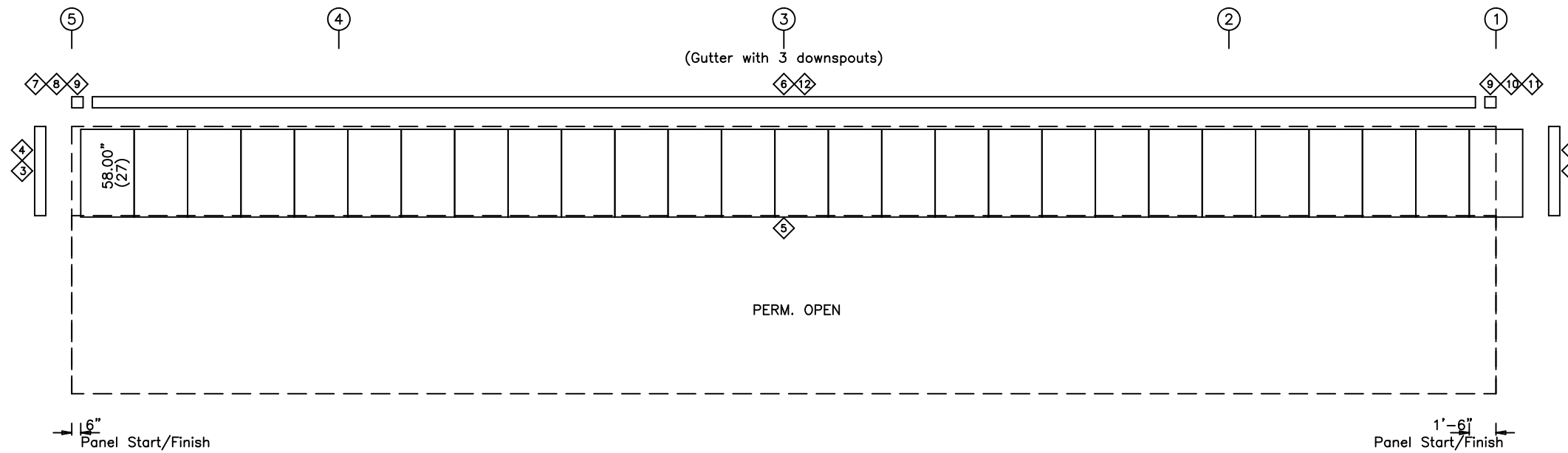
SIDEWALL FRAMING: FRAME LINE A

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

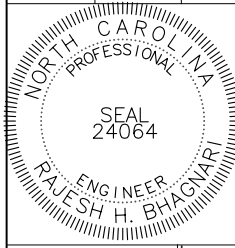
Engineering Performed By:
 Nucor Corporation
 200 Whetstone Rd.
 Swansea, SC 29460
 COA# F-1470

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

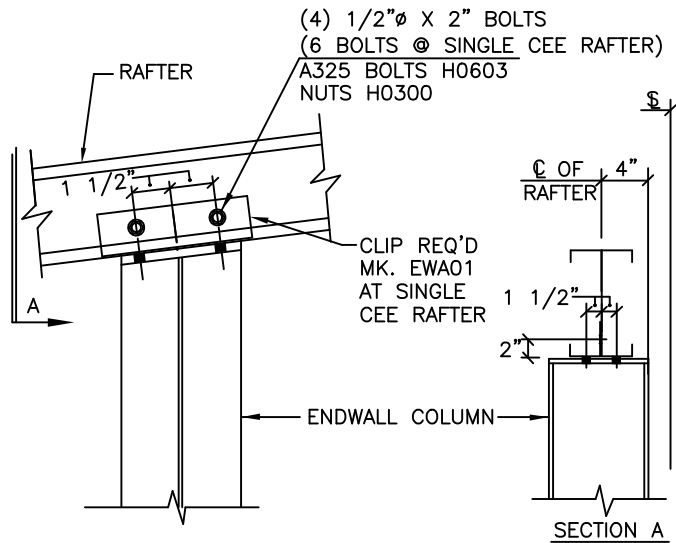
JOB NUMBER
 A23B0716A

SHEET TITLE
 BACK SIDEWALL ELEVATION



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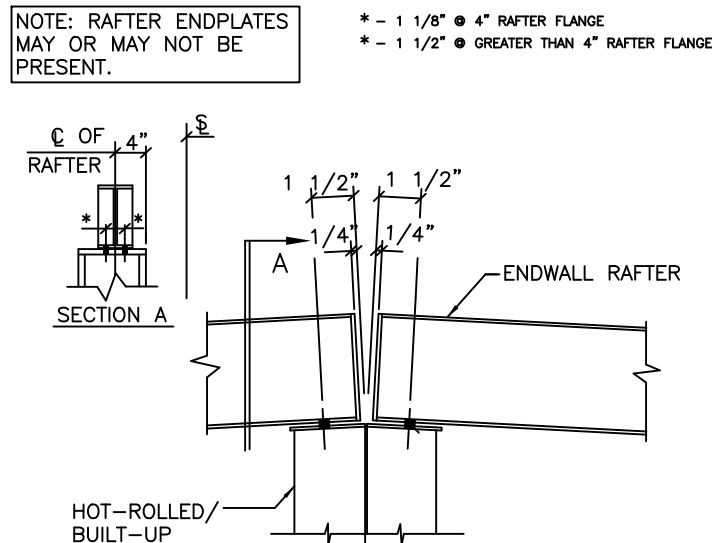
SHEET
E7 of 7



EW COLUMN TO RAFTER CONNECTION

(CONTINUOUS RAFTER)
 REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS **B3**

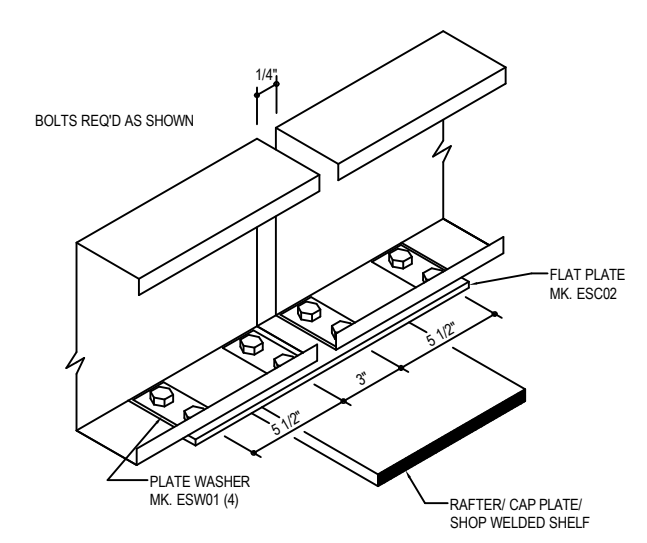
AC0045



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**

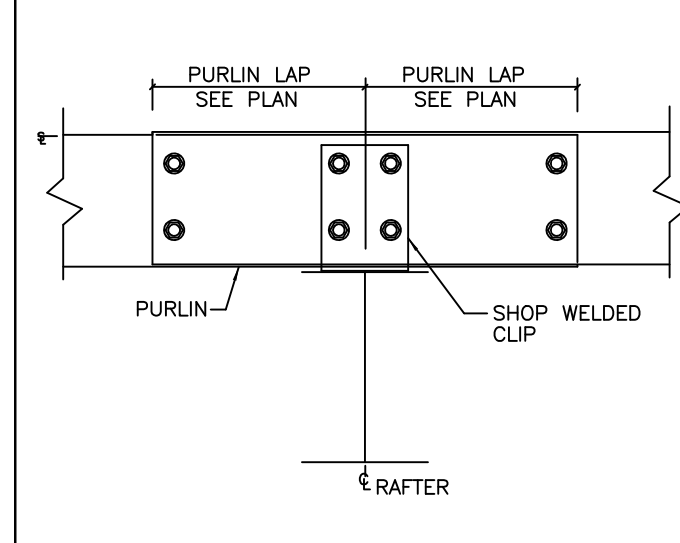
AC0140



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**

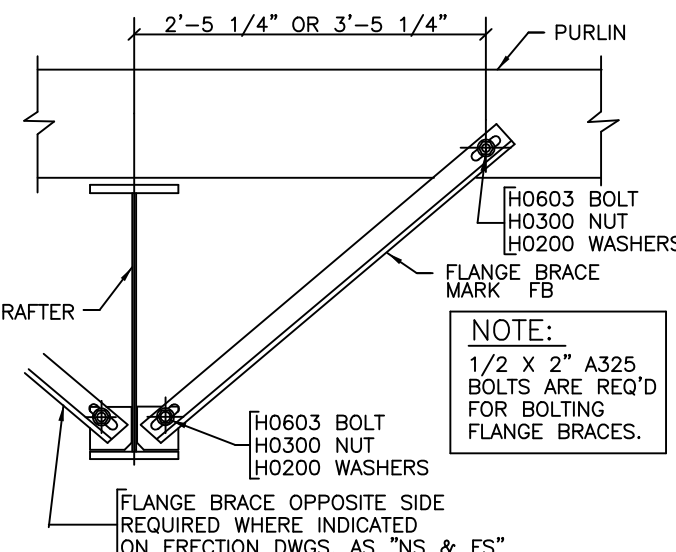
BA0070



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**

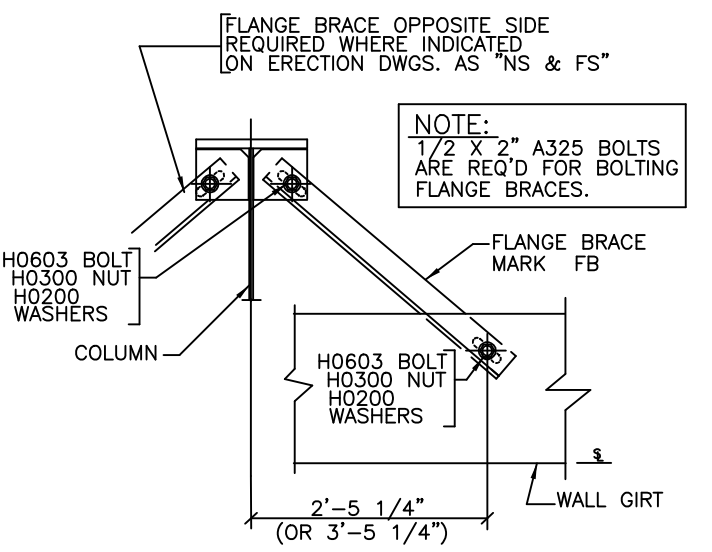
BB0050



TYP FLANGE BRACE @ PURLIN & RAFTER

NOTE: SEE PLANS AND ELEVATIONS FOR FLANGE BRACE PART MARKS **NAG0010**

AG0010

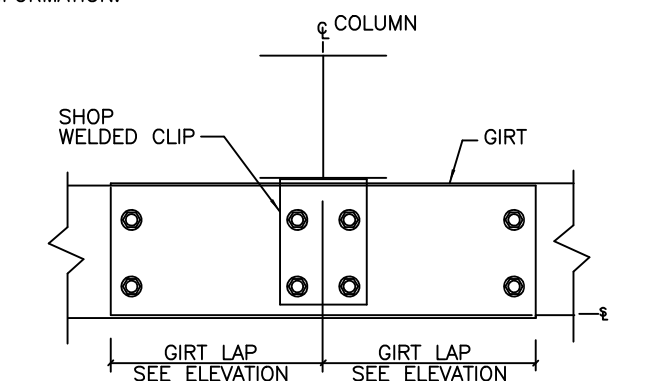


TYP FLANGE BRACE @ BU COL & GIRT

NOTE: SEE PLANS AND ELEVATIONS FOR FLANGE BRACE PART MARKS **NAG0030**

AG0030

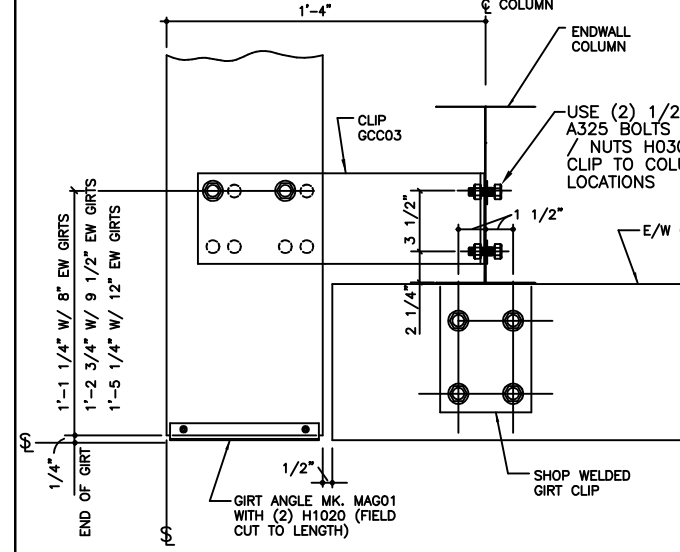
ERECTOR NOTE:
 AT EACH LAPPED GIRT CONNECTION, (1) 1/2" X 1 1/4" THIN HEAD BOLT H0510/NUT H0400 MUST BE USED TO ATTACH THE FIRST GIRT TO THE GIRT CLIP. THE BOLT/NUT ASSEMBLY MUST BE WRENCH TIGHT PRIOR TO THE LAPPED GIRT BEING INSTALLED. REFERENCE THE STANDARD "LAPPED GIRT DETAIL" FOR MORE INFORMATION.



GIRT TO COLUMN

USE (7) 1/2" x 1 1/4" A307 BOLTS H0500 / NUTS H0400
 REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS **H2**

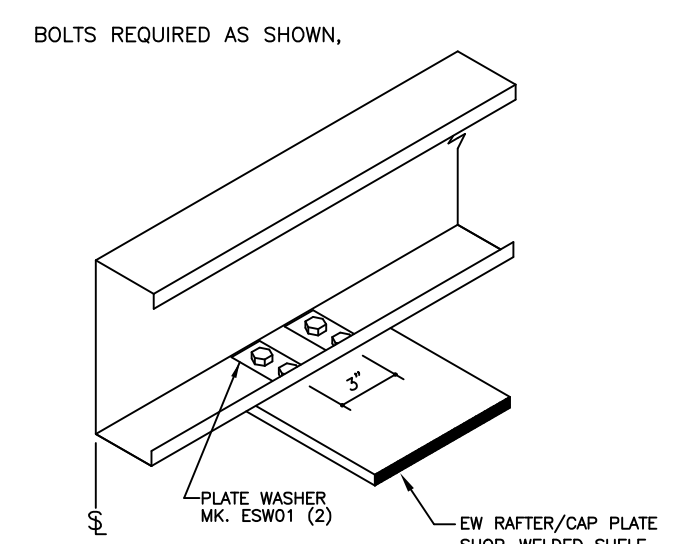
CO0020



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**

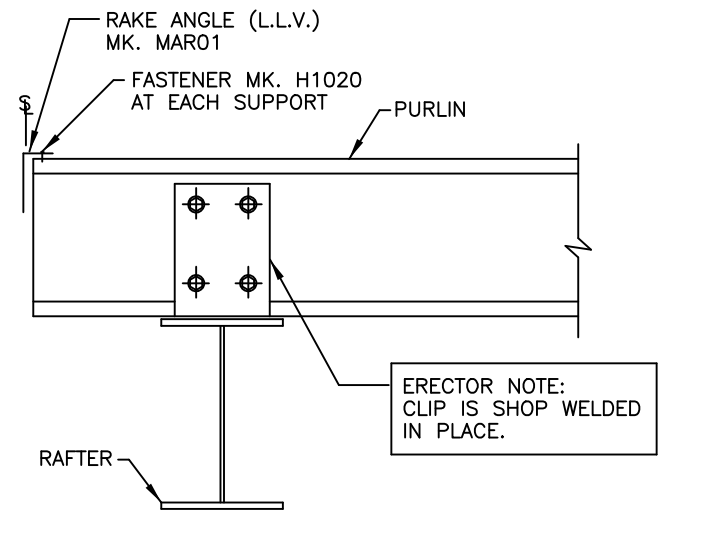
CF0010



EAVE STRUT TO ENDWALL RAFTER

USE (4) 1/2" x 2" A325 BOLTS H0603 / NUTS H0300
 REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS **18**

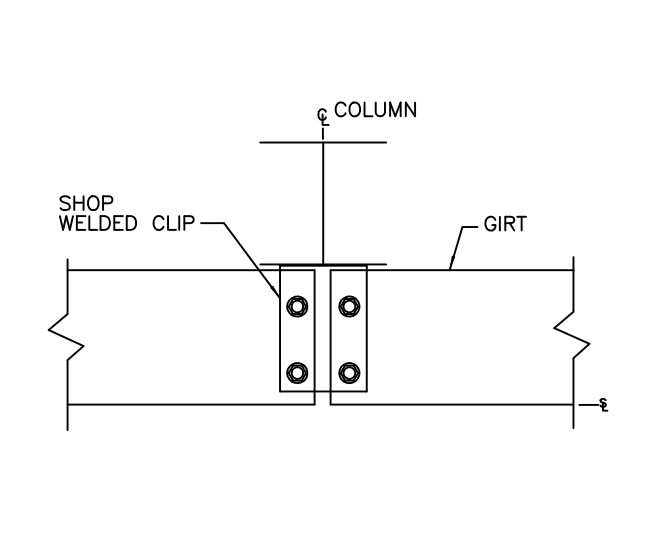
BA0050



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**

BA0050

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

PROFESSIONAL SEAL

RAJESH H. BHAGVARI

ENGINEER

SEAL 24064

North Carolina Professional Engineer

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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 SOLDERS OR SPRAYED ZINC. ALL TOUCHUP AND REPAIR METHODS ARE CAPABLE OF BUILDING A PROTECTIVE LAYER TO THE THICKNESS REQUIRED BY ASTM A 780.

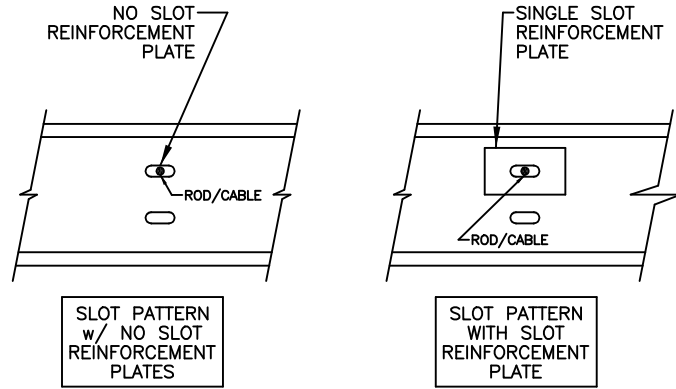
SAFETY & HEALTH
WHEN WELDING DIRECTLY ON GALVANIZED STEEL IS UNAVOIDABLE, OSHA PERMISSIBLE EXPOSURE LIMITS (PELS) MAY BE EXCEEDED AND EVERY PRECAUTION, INCLUDING HIGH-VELOCITY CIRCULATING FANS WITH FILTERS, AIR RESPIRATORS AND FUME-EXTRACTION SYSTEMS SUGGESTED BY AWS, SHOULD BE EMPLOYED. FUMES FROM WELDING 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

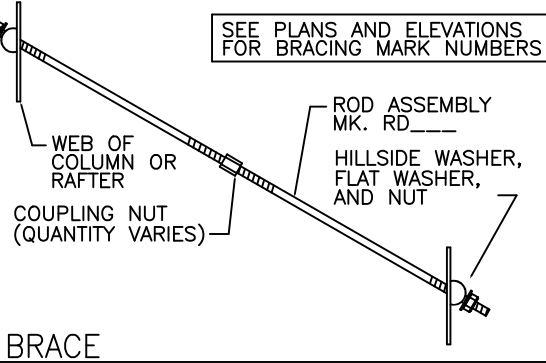
NAA0040

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

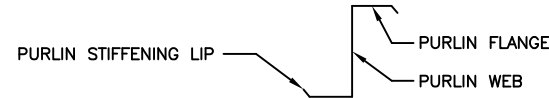


ROD BRACE

WEB TO WEB

Q3

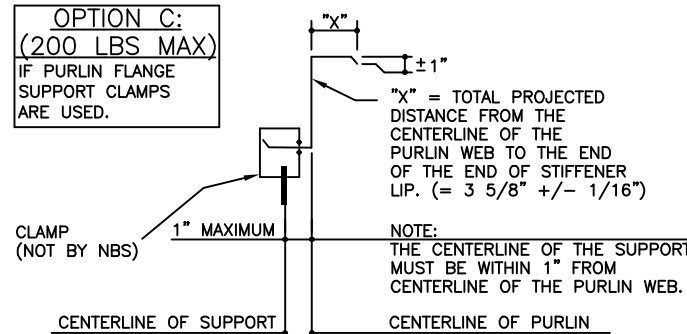
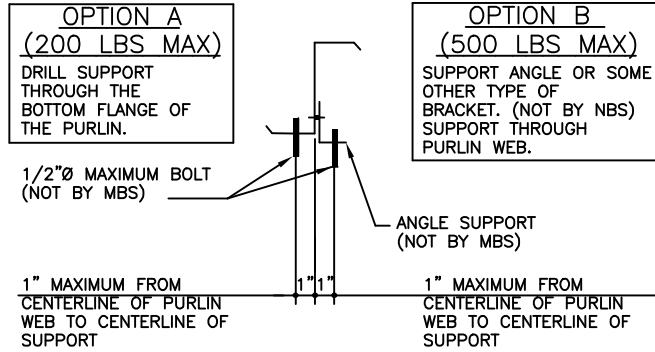
COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILING, ETC. ARE SUSPENDED FROM ROOF MEMBERS, CONSULT ENGINEER OF RECORD IF THESE CONCENTRATED LOADS EXCEED 500 POUNDS (USING THE WEB MOUNT DETAIL) OR 200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

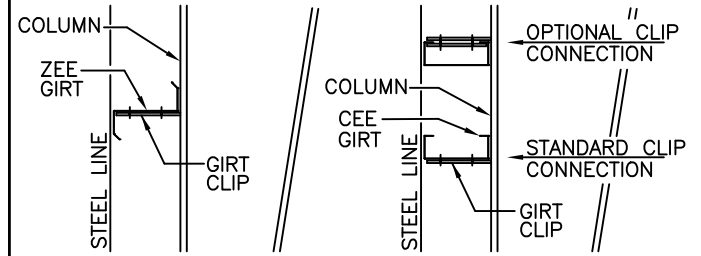
OPTIONS FOR SUPPORT ATTACHMENTS



PURLIN SUPPORT METHODS

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.

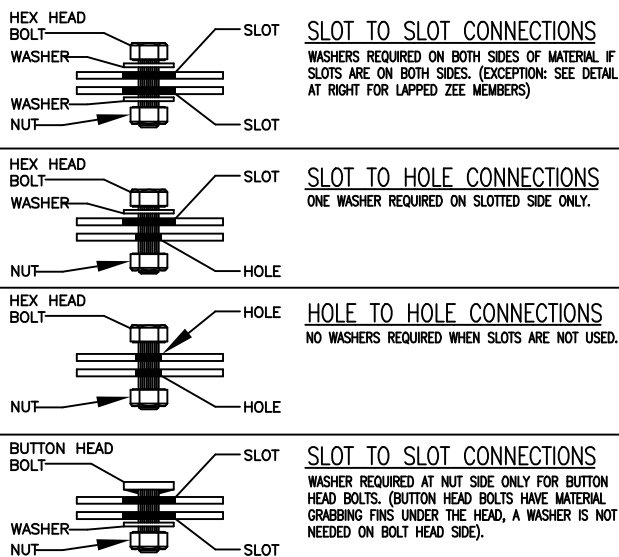
UNLESS SPECIFICALLY NOTED OTHERWISE, STANDARD CEE GIRT ORIENTATION IS TO HAVE THE GIRT TOED UP AS SHOWN IN THE DETAIL BELOW. STANDARD CLIP ATTACHMENT IS BELOW THE GIRT, HOWEVER SOME DETAILS REQUIRE THAT THE CLIP BE ABOVE THE GIRT. (REFER TO THE GIRT DETAILS ON THE ERECTION DRAWINGS FOR REQUIREMENTS)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



ZEE GIRT ORIENTATION CEE GIRT ORIENTATION

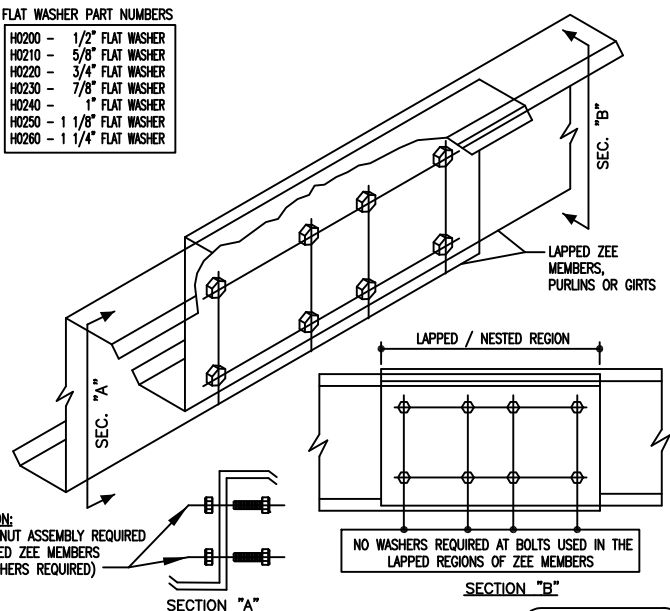
STANDARD GIRT ORIENTATION DETAIL

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

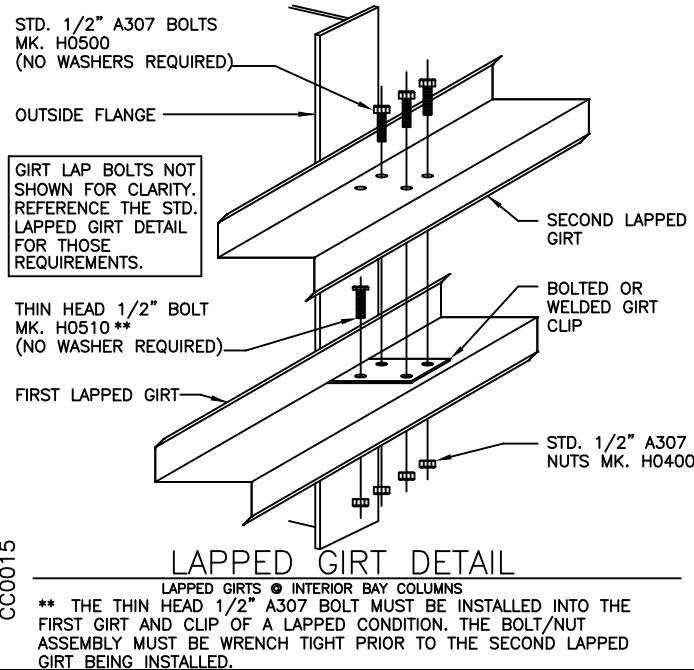


FLAT WASHER PART NUMBERS

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

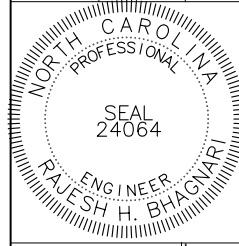


CC0015

DATE	ISSUE	FINALS	CHK	ENG	PE
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
CERTIFIED ERECTION DETAILS

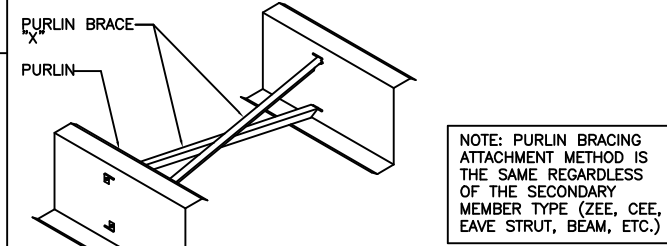
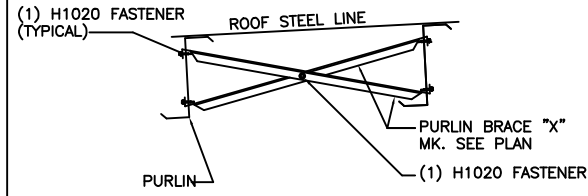


SEAL 24064
ENGINEER
RAJESH H. BHAGNARI
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CED2

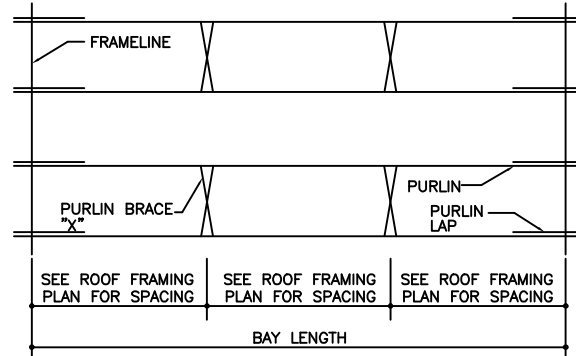
INSTALLATION INSTRUCTIONS

- 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.



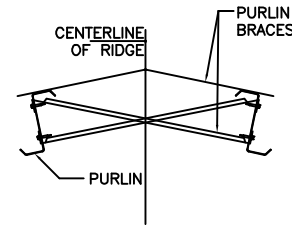
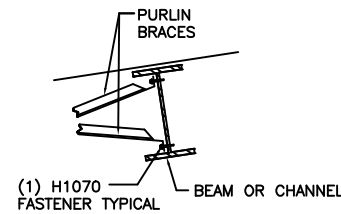
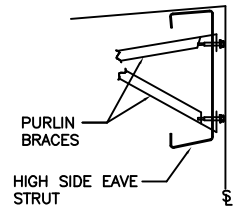
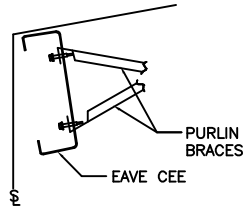
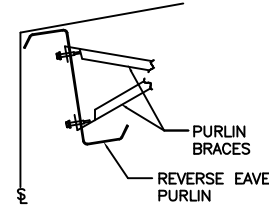
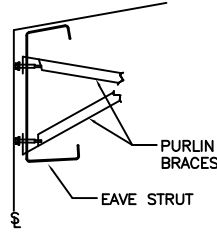
PLAN VIEW OF PURLIN BRACING LOCATIONS PER BAY

- 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



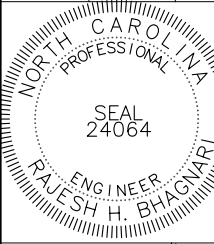
NOTE: IF CHANNEL, IT MAY BE TOED UP OR DOWN.

BE0010

DATE	08/12/2023
ENG	RHB
CHK	BLS
DNW	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, 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 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.

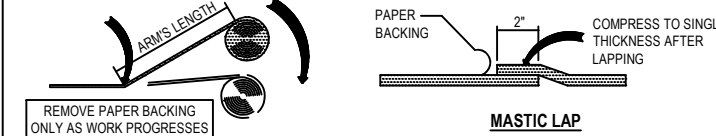
TAPE MASTIC IS PROVIDED WITH A PROTECTIVE PAPER TO REDUCE CONTAMINATION. INCOMPLETE REMOVAL OF THE PROTECTIVE PAPER WILL PREVENT THE MASTIC ADHESION TO THE PANEL OR FLASHING SURFACES. ALWAYS CHECK THAT THE PROTECTIVE PAPER IS COMPLETELY REMOVED. DO NOT REMOVE THE PROTECTIVE PAPER UNTIL IMMEDIATELY BEFORE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

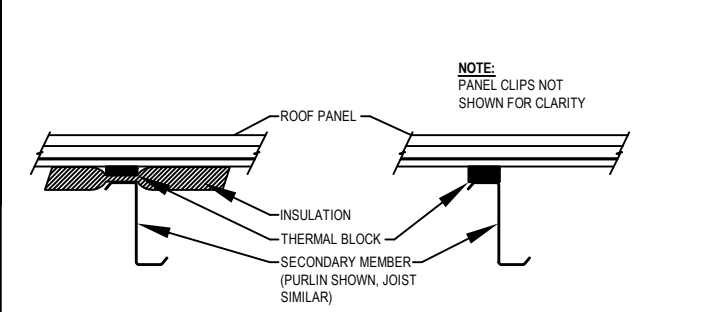
DUE CONSIDERATION MUST BE GIVEN BY THE ERECTOR TO THE EFFECTS OF THERMAL EXPANSION AND CONTRACTION WHEN ERECTING A ROOF TIE-IN TO AN EXISTING STRUCTURE TO INSURE A SAFE, SECURE, WEATHER TIGHT CONDITION. FLASHING FOR TIE-INS TO EXISTING BUILDINGS IS TYPICALLY NOT INCLUDED AS PART OF THE MATERIAL PROVIDED 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					UN-INSULATED ROOF		
INSULATION		BLOCK		CLIP	BLOCK		
R	THICK	MK #	THICK		MK #	THICK	CLIP
R7	2"	N/A	N/A	SHORT	H3310	1/2"	SHORT
R10	3 3/8"	N/A	N/A	SHORT	H3305	1 1/2"	TALL
R11	3 3/4"	N/A	N/A	SHORT	FIELD CUT H3305 TO LENGTH FOR PROPER FITTING BETWEEN PANEL CLIPS		
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			

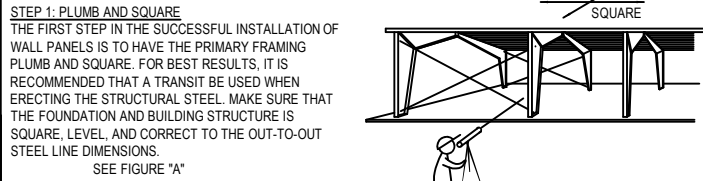


ROOF SYSTEM COMPONENT WITH DETAILING

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 LATERALLY. WHEN REPLACING AN EXISTING SCREW DOWN ROOF, ADDITIONAL BRACING MAY BE REQUIRED TO LATERALLY SUPPORT THE MEMBERS. ENGINEERING AND MATERIAL FOR THESE USES SHALL NOT BE PROVIDED BY MBS.

BUILDING & PANEL PREPARATION



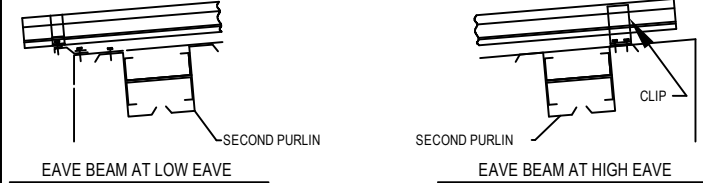
FIELD CUTTING PANELS

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.



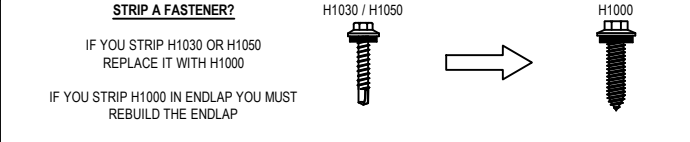
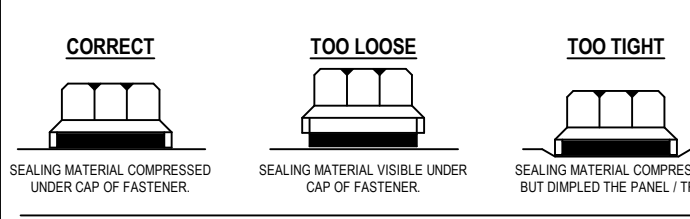
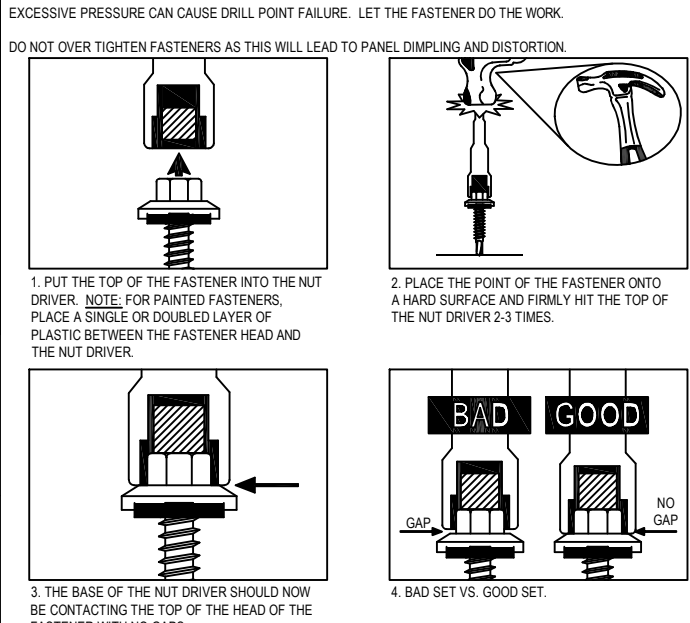
FASTENER INSTALLATION

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'

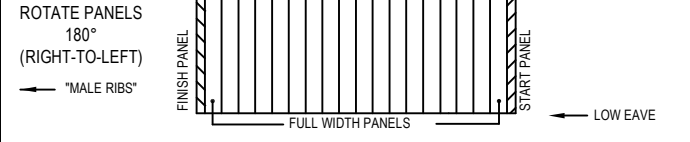
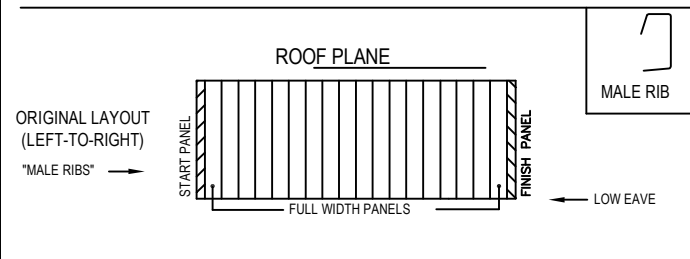
DRIVING TIPS:
SET THE NUT DRIVER AS DESCRIBED BELOW PRIOR TO INSTALLING FASTENERS TO PREVENT FASTENER WOBBLE...

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.



Loc Seam NOTES
EAVE GUTTER DETAIL W/ WALL PANELS
SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS
EA3010

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	DATE 08/12/2023	PER RHB	CHK BLS	APP MBS
			ISSUE			
			By: FINALS			
			Engineering Performed By: Nucor Corporation 200 Whetstone Rd. Swansea, SC 29460 COA# F-1470			
			SHEET TITLE CERTIFIED ERECTION DETAILS			

SEAL 24064

ENGINEER
RAJESH H. BHAGNARI

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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

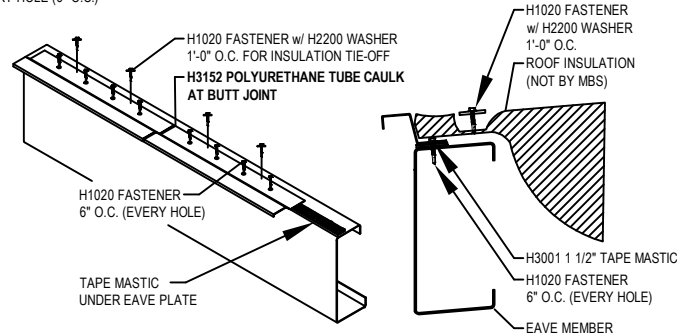
THE FINISH PANEL IS SIMILAR TO THE START PANEL INSTALLATION. THE RAKE ANGLE CLIPS AND RAKE ANGLE NEEDS TO BE INSTALLED ON TOP OF THE INSULATION PRIOR TO INSTALLING THE FINISH PANEL. THE FINISH PANEL SHOULD BE FIELD CUT AND ROLLED INTO PLACE AND SECURED TO THE RAKE ANGLE SIMILAR TO THE START PANEL.

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.)

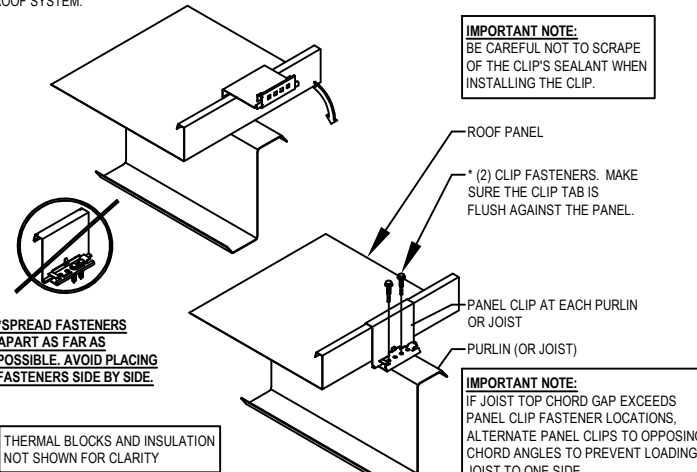


NOTE: H1020/H1070 (PURLIN/JOIST) FASTENER w/ H2200 WASHER 1'-0" O.C. FOR INSULATION TIE-OFF PROVIDED AT HIGH SIDE / RIDGE

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

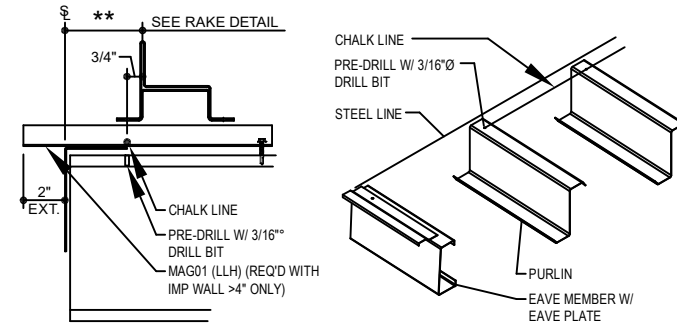
JOIST APPLICATION
 H1070 FOR INSULATION ≤ R-19 (6 3/8")
 H1075 FOR INSULATION = R-25 (8")

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.

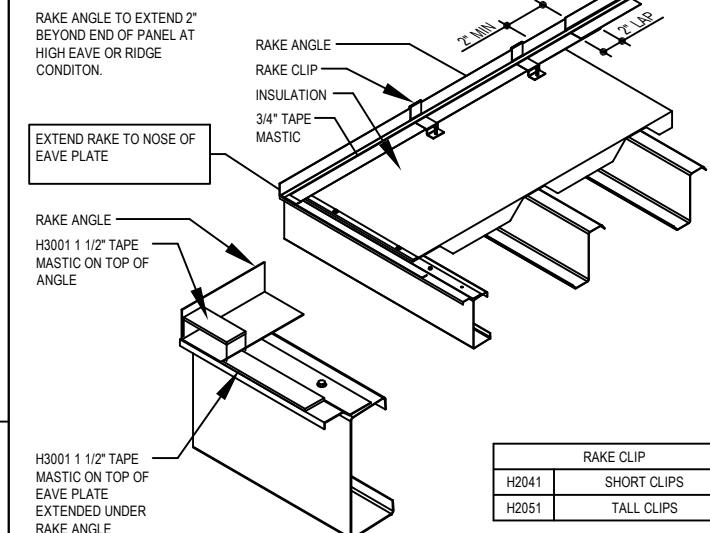


RAKE ANGLE / RAKE CLIP INSTALLATION

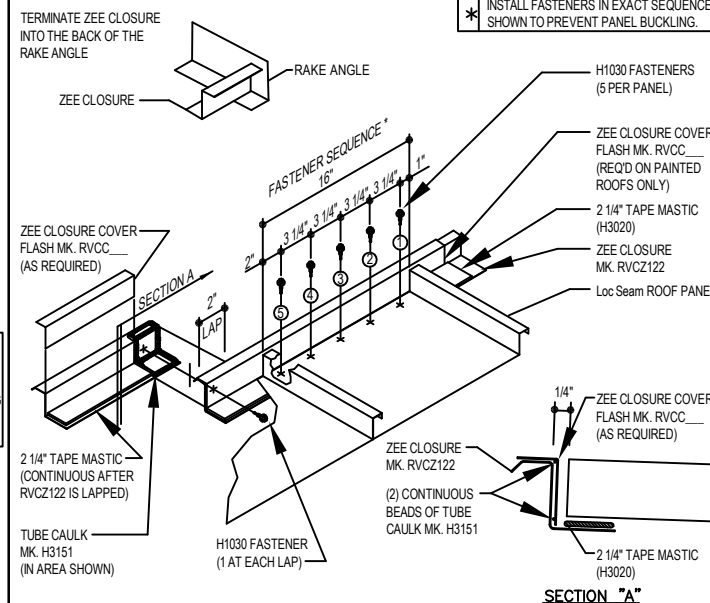
AFTER INSULATION IS IN PLACE AND PRIOR TO INSTALLING THE RAKE CLIPS AND RAKE ANGLE APPLY 1 1/2" TAPE MASTIC ON TOP OF THE EAVE PLATE BUT ONLY REMOVE PAPER BACKING WHERE THE RAKE ANGLE WILL REST. THIS WILL SEAL BETWEEN THE EAVE PLATE AND THE RAKE ANGLE.

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.



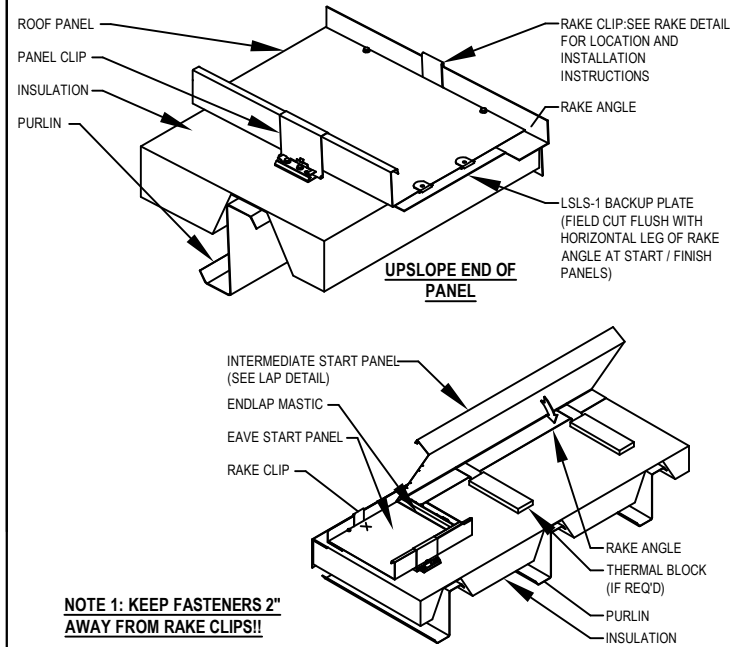
RAKE CLIP	
H2041	SHORT CLIPS
H2051	TALL CLIPS



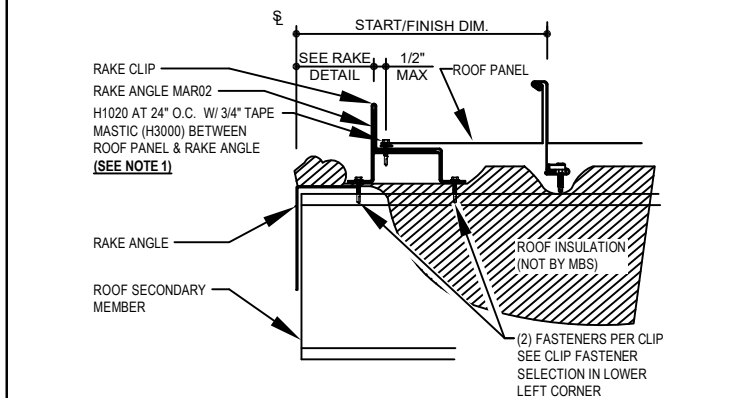
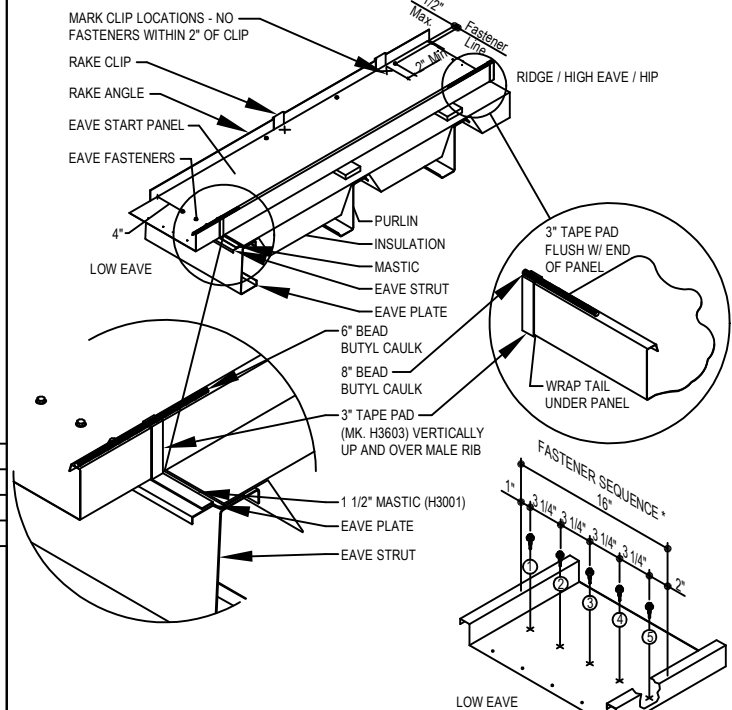
RIDGE/HIGHSIDE ZEE CLOSURE DETAIL

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
DNW	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

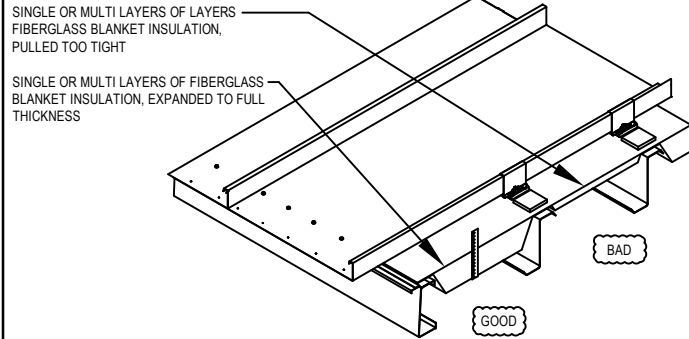
THE SEAL IS VALID ONLY IF THE SEALING ENGINEER IS A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NORTH CAROLINA AND THE SEALING ENGINEER'S SIGNATURE IS ON THE DRAWING. THE SEALING ENGINEER'S SIGNATURE IS VALID ONLY IF THE SEALING ENGINEER IS A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NORTH CAROLINA AND THE SEALING ENGINEER'S SIGNATURE IS ON THE DRAWING.

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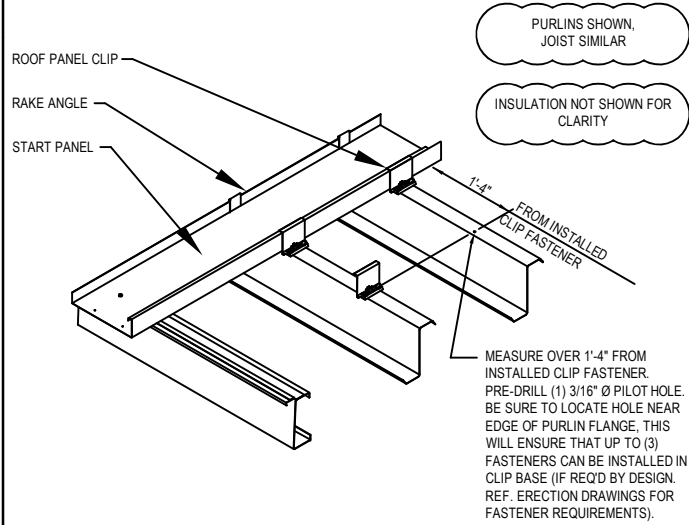
SPECIAL ATTENTION MUST BE GIVEN TO INSULATION SAG AND RECOMMEND PRE-DRILLING TO LOCATE CLIPS. MODULARITY TOOLS ARE AVAILABLE TO AID IN MODULARITY.

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.

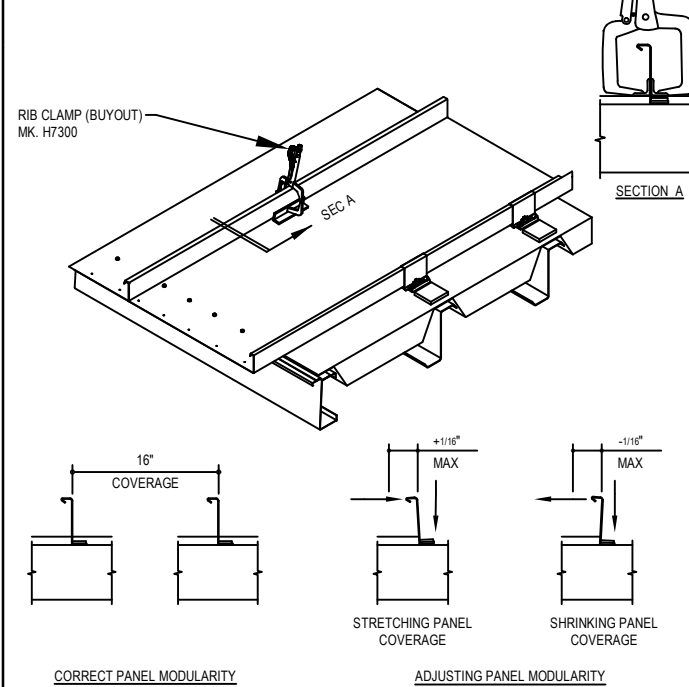


PRE-DRILL ONE PILOT HOLE FOR ROOF PANEL CLIPS AT MID-SPANS, HIGH SIDE OR RIDGE AND PANEL END LAPS, IF ANY.



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.

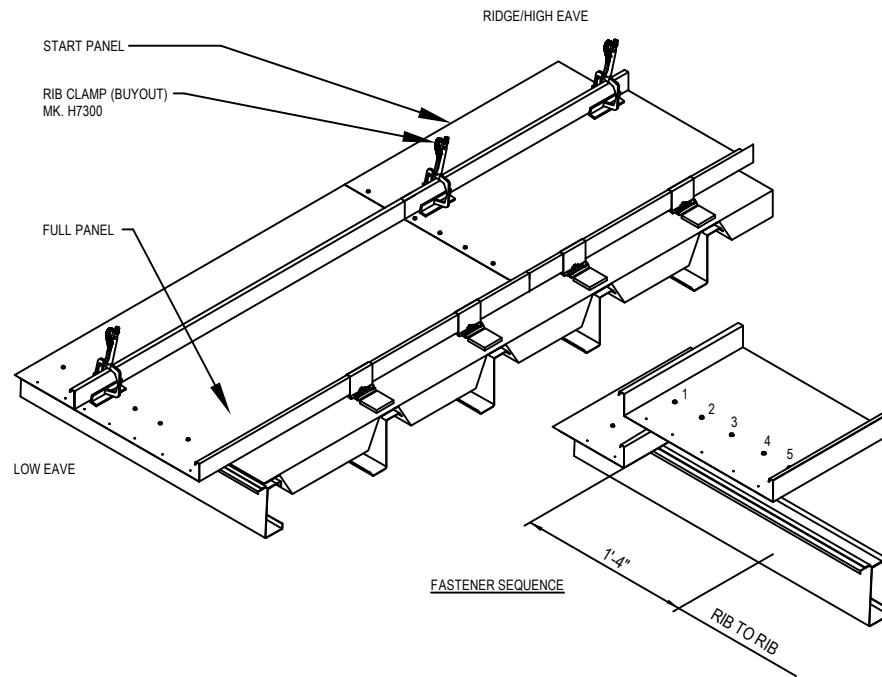


PANEL MODULARITY SEQUENCE

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

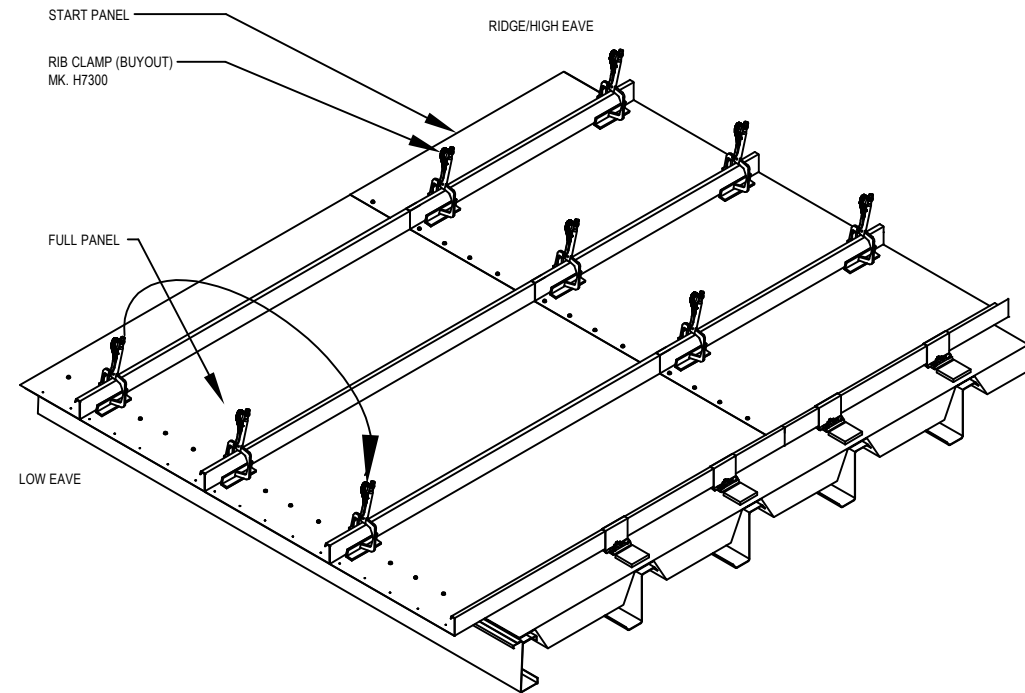
STAGE #1

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.



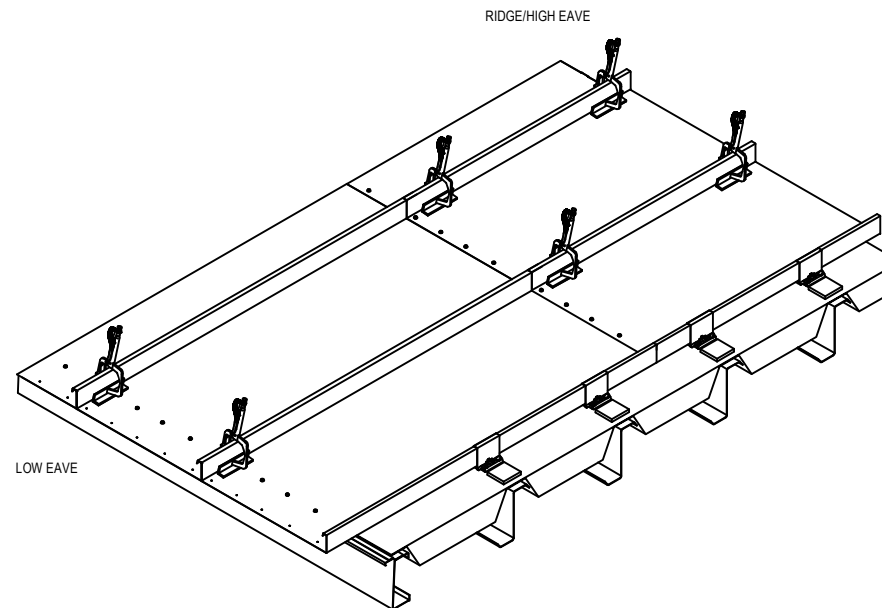
STAGE #3

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.



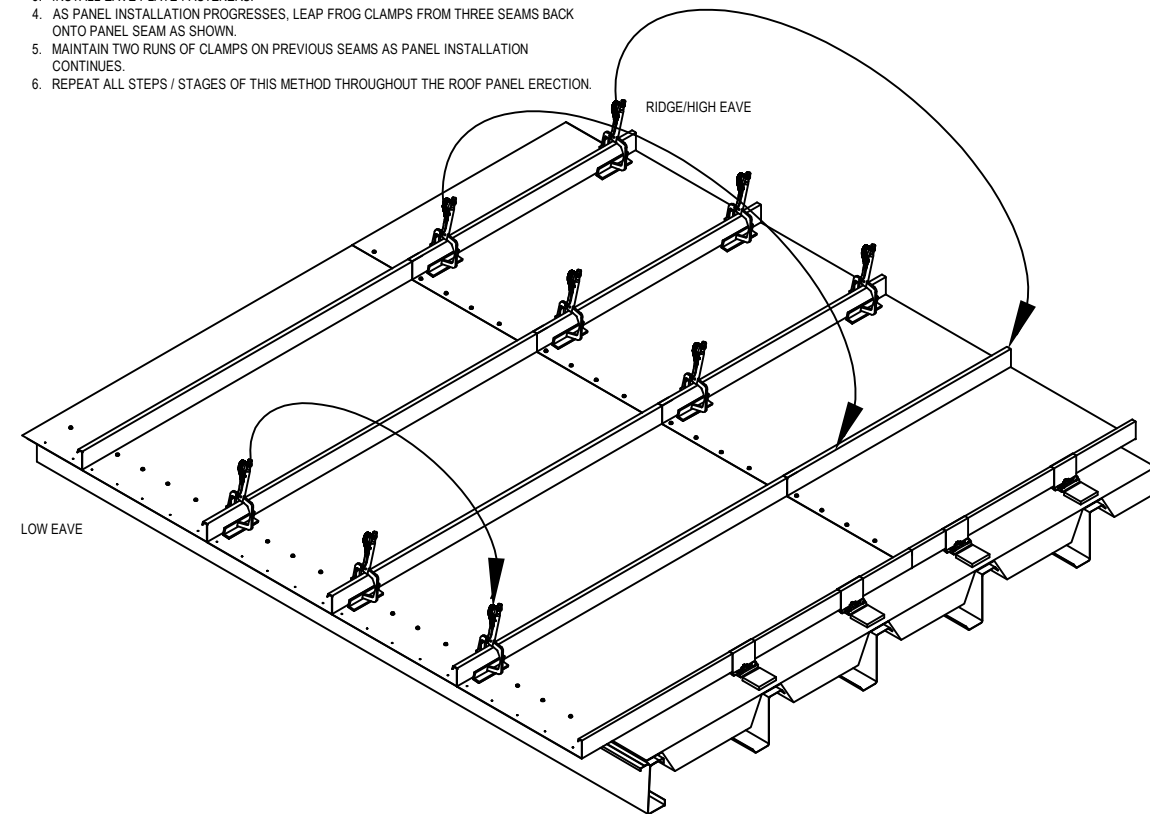
STAGE #2

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	
DOWN	MBS
CHK	BLS
ENG	RHB
PE	
FINAL	

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

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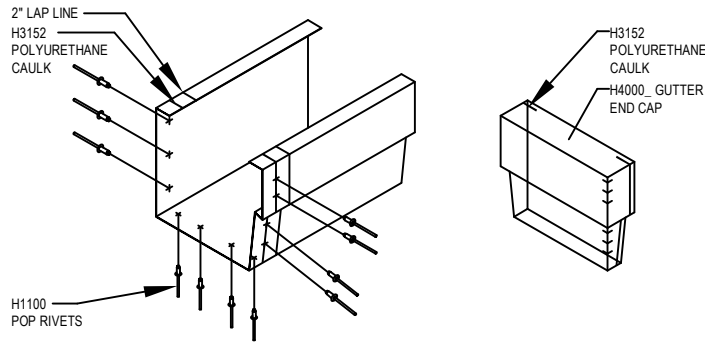
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 24064
RAJESH H. BHAGNARI

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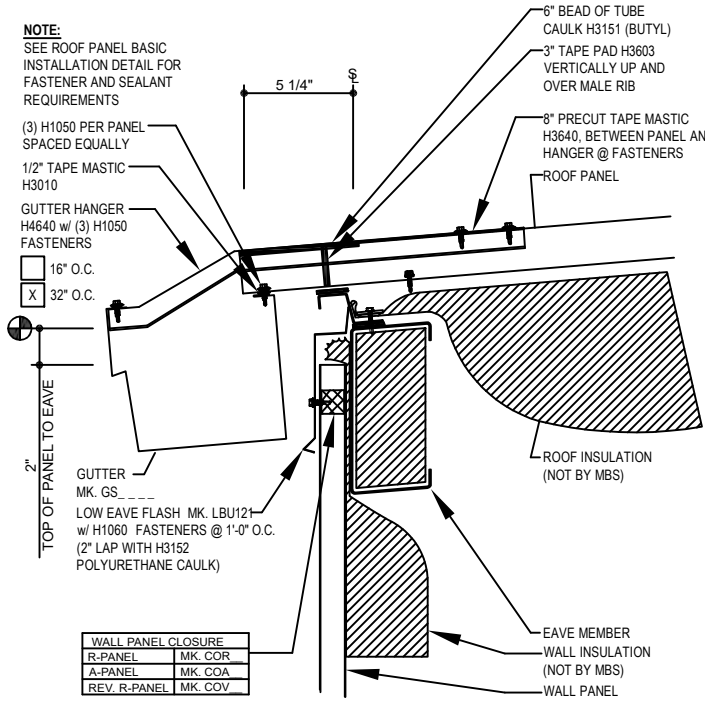
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GUTTER LAP & END CAP

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.

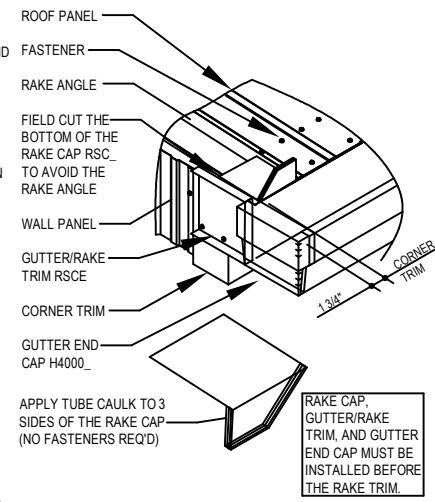
ALWAYS START THE RAKE TRIM INSTALLATION AT THE LOW EAVE WORKING TOWARD THE HIGH EAVE OR RIDGE. INSTALL RAKE TRIM ACCORDING RAKE TRIM DETAIL

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.

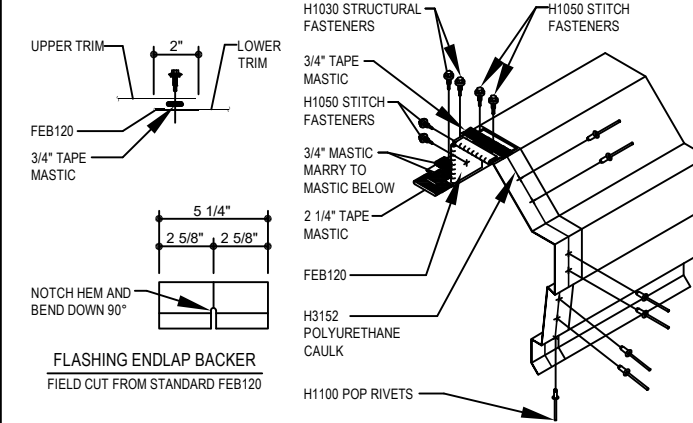
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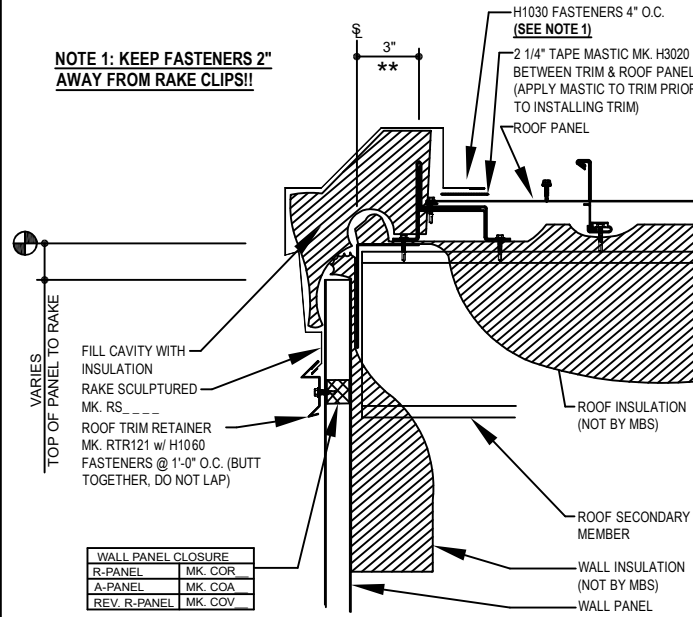
RAKE CAP, GUTTER/RAZE TRIM, AND GUTTER END CAP MUST BE INSTALLED BEFORE THE RAKE TRIM.

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!!



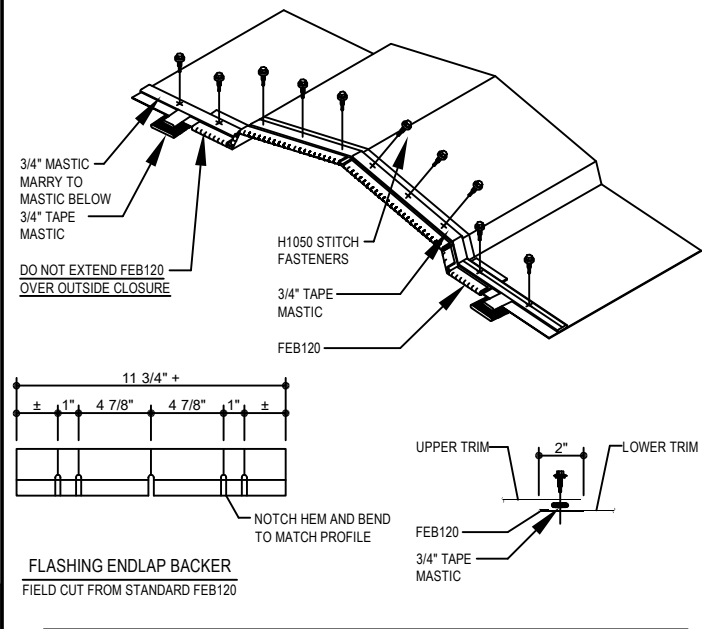
RAKE SCULPTURED DETAIL

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

H1030 FASTENERS (5) PER PANEL
TAPE MASTIC H3020 (CONTINUOUS)
RIDGE CLOSURE ZEE RVCZ w/ RVCC (REQ'D ON PAINTED ROOFS ONLY)

RIDGE TRIM DETAIL

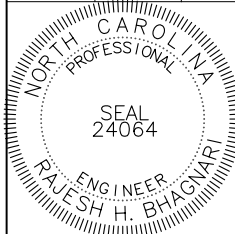
RIDGE TRIM DETAIL

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

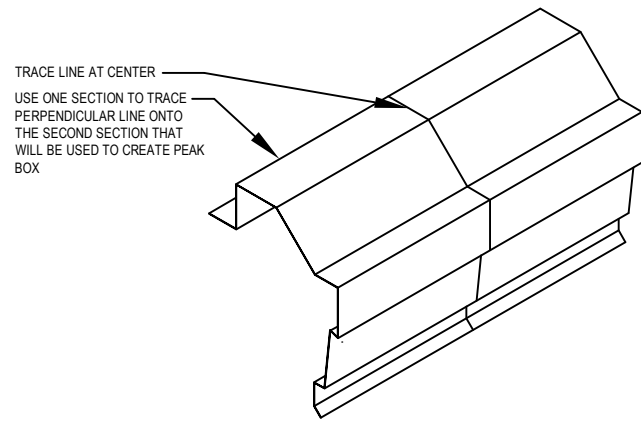
Engineering Performed By:
Nucor Corporation
200 Whetstone Rd.
Swansea, SC 29460
COA# F-1470

PROJECT NAME
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76 UPCHURCH LANE, BUIES CREEK, NC 27506
CUSTOMER NAME
SOUTHEASTERN CONSTRUCTION OF BUIES CREEK, LLC
BUIES CREEK, NC 27506
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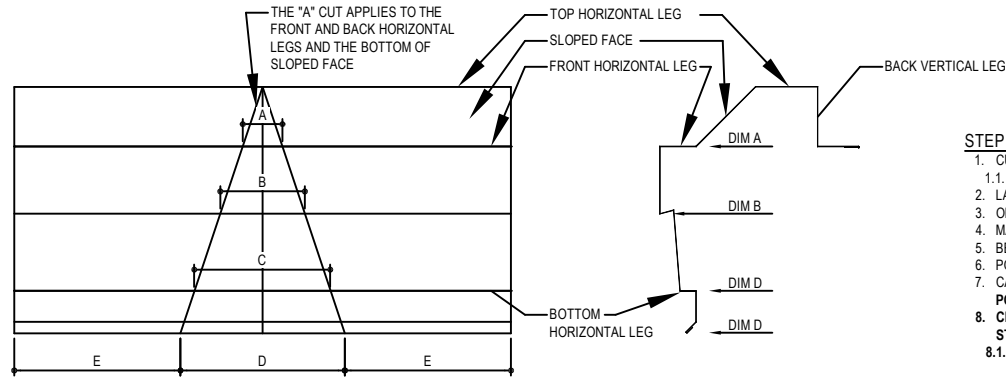


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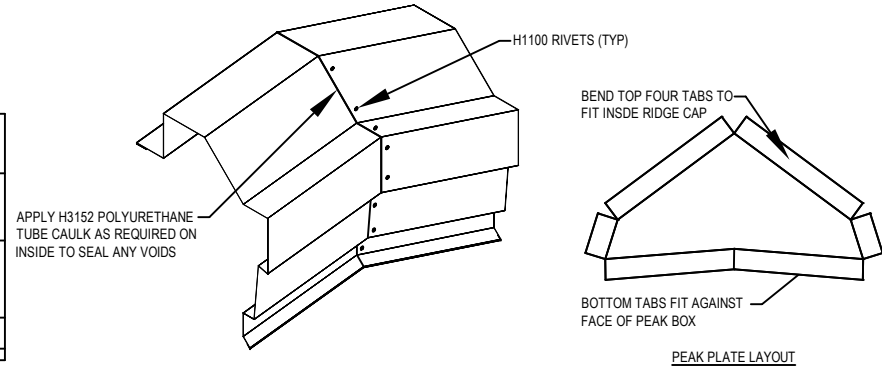
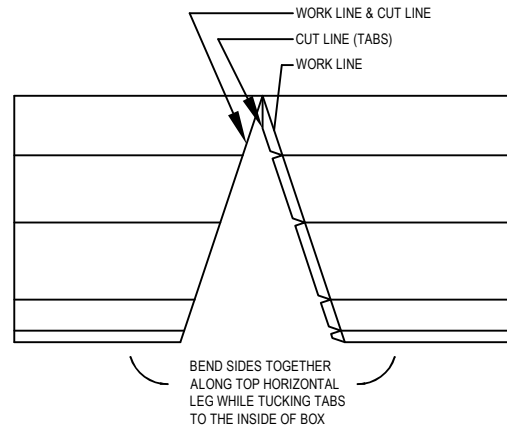


ROOF SLOPE	LAYOUT DIMENSION (INCHES)				
	A	B	C	D	E
0.25:12	1/8	1/4	7/16	1/2	11 3/4
0.50:12	1/4	1/2	13/16	1	11 1/2
1:12	1/2	1	1 5/8	2	11
2:12	15/16	2 1/16	3 5/16	3 15/16	10
3:12	1 7/16	3 1/16	4 15/16	6	9
4:12	1 7/8	4 1/16	6 5/8	7 7/8	8 1/16
5:12	2 3/8	5 1/8	8 1/4	9 7/8	7 1/16
6:12	2 7/8	6 1/8	9 7/8	11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

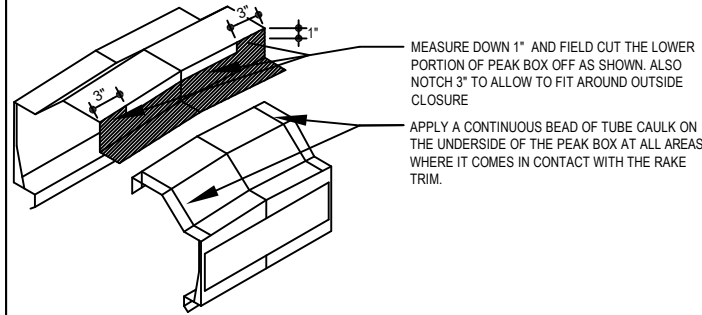
PEAK BOX PREPARATION STEP 1

ERECTOR NOTE:

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

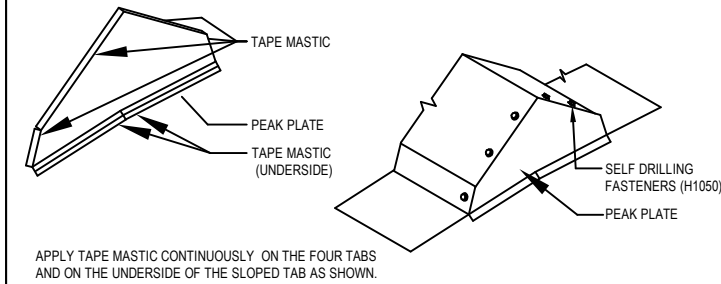
PEAK BOX

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.

EG7630

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.

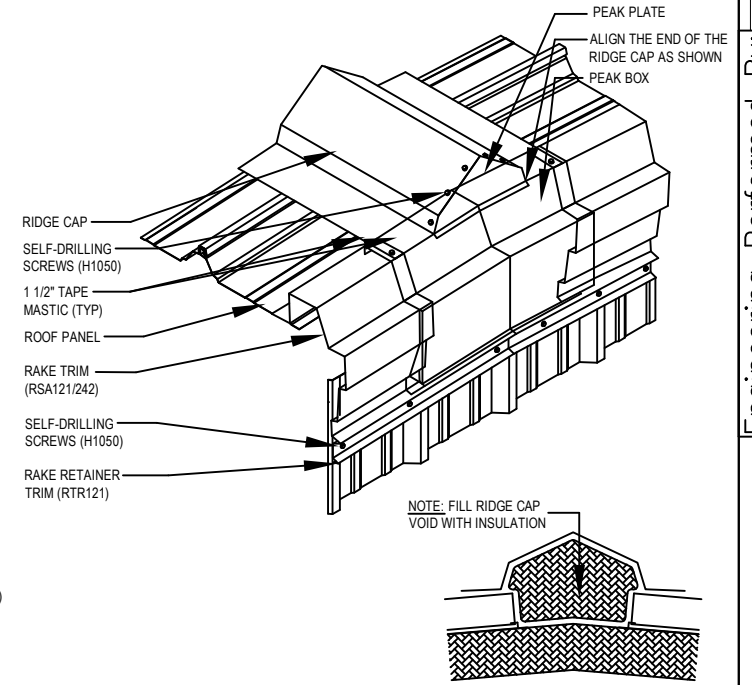
AFTER THE PEAK BOX IS IN PLACE, EXTEND THE 1 1/2" TAPE MASTIC (H3001) FROM THE OUTSIDE PANEL CLOSURE TO THE SLOPED FACE TO THE PEAK BOX. NEXT, INSTALL SHORT PIECES OF 1 1/2" TAPE MASTIC (H3001) TO THE FLAT PORTION OF THE RIDGE CAP (AS SHOWN).

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

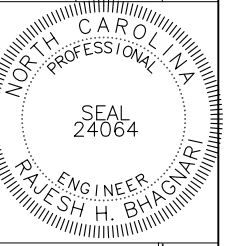


TRIM_400

DATE	ISSUE	CHK	ENG	PE
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		FINALS		

Engineering Performed By:
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JOB NUMBER
A23B0716A
SHEET TITLE
CERTIFIED ERECTION DETAILS



The seal remains only in the hands of the professional engineer who is responsible for the design and construction of the building. The drawings and the metal buildings 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 act for the professional engineer of record and shall not be construed as such.

SHEET
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EG7000

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"

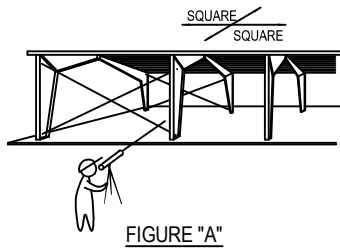


FIGURE "A"

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"

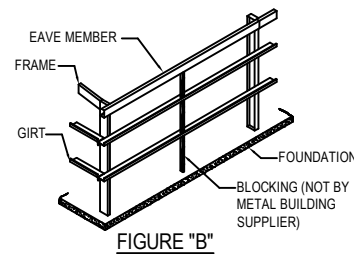


FIGURE "B"

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"

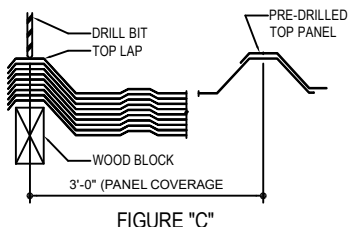


FIGURE "C"

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.

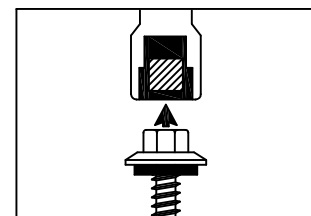
- 16 GAGE WIRE, MAXIMUM CHORD LENGTH = 100'
- 14 GAGE WIRE, MAXIMUM CHORD LENGTH = 200'
- 12 GAGE WIRE, MAXIMUM CHORD LENGTH = 300'

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

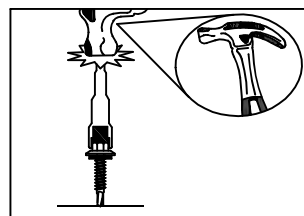
COMPRESS THE INSULATION AT FASTENER LOCATION WITH ONE HAND WHILE DRIVING THE FASTENER WITH THE OTHER. THIS WILL HELP KEEP THE PANEL FLAT AND PREVENT THE FASTENER FROM "WALKING". DRIVE FASTENERS PERPENDICULAR TO PANEL SURFACE.

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

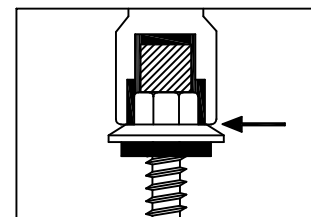
DO NOT OVER TIGHTEN FASTENERS AS THIS WILL LEAD TO PANEL DIMPLING AND DISTORTION.



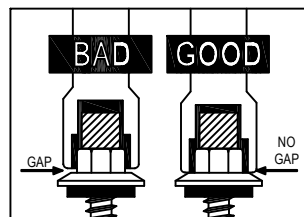
1. PUT THE TOP OF THE FASTENER INTO THE NUT DRIVER. **NOTE:** FOR PAINTED FASTENERS, PLACE A SINGLE OR DOUBLED LAYER OF PLASTIC BETWEEN THE FASTENER HEAD AND THE NUT DRIVER.



2. PLACE THE POINT OF THE FASTENER ONTO A HARD SURFACE AND FIRMLY HIT THE TOP OF THE NUT DRIVER 2-3 TIMES.



3. THE BASE OF THE NUT DRIVER SHOULD NOW BE CONTACTING THE TOP OF THE HEAD OF THE FASTENER WITH NO GAPS.



4. BAD SET VS. GOOD SET.

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

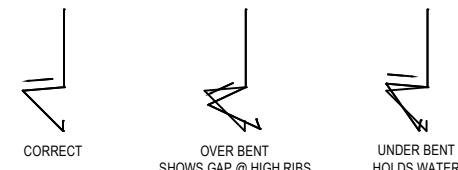
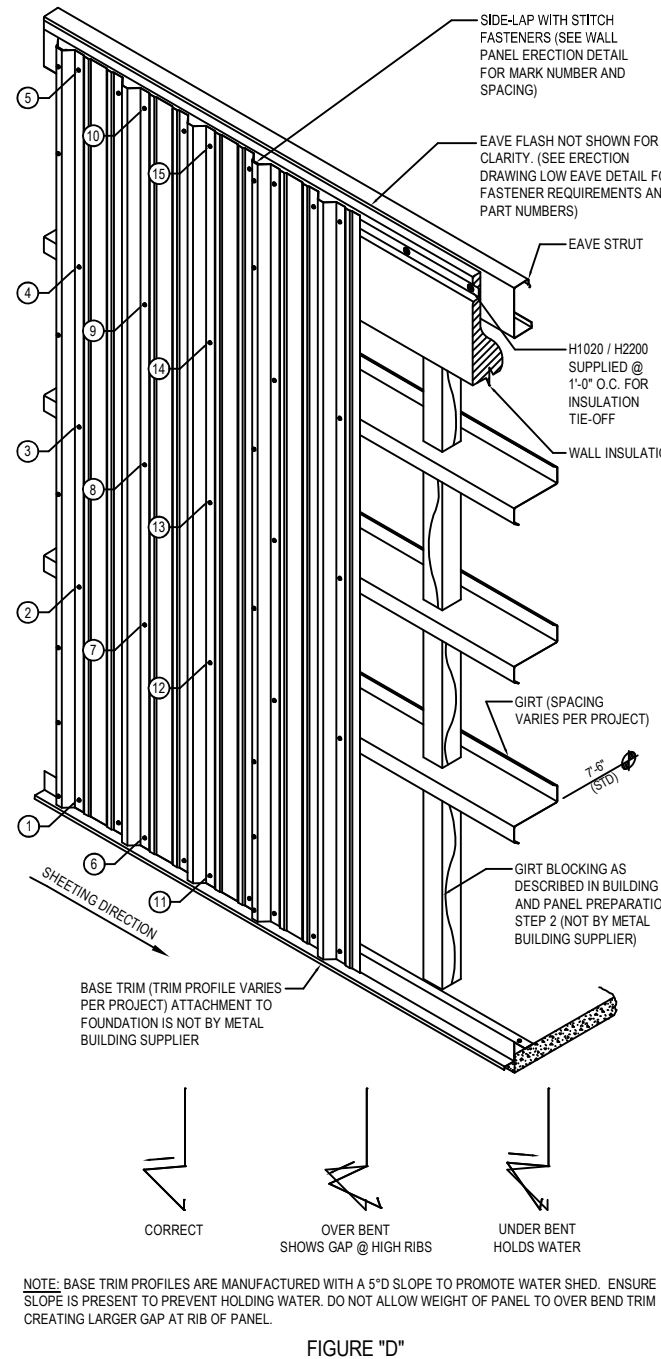
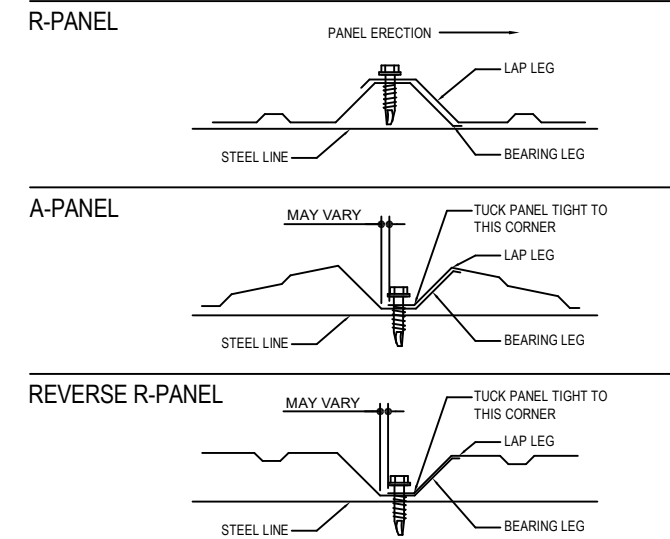
RECOMMENDED PANEL FASTENING SEQUENCE IS SHOWN TO THE RIGHT. THIS PATTERN AIDS IN PLUMBING AS WELL AS MAINTAINING PANEL COVERAGE / MODULARITY. SOME APPLICATIONS MAY REQUIRE MODIFIED SEQUENCE AND WILL BE BEST DETERMINED IN THE FIELD. **DO NOT ATTACH PANEL AT BASE AND TOP AND WORK TOWARD THE MIDDLE OF THE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



NOTE: BASE TRIM PROFILES ARE MANUFACTURED WITH A 5°D SLOPE TO PROMOTE WATER SHED. ENSURE SLOPE IS PRESENT TO PREVENT HOLDING WATER. DO NOT ALLOW WEIGHT OF PANEL TO OVER BEND TRIM CREATING LARGER GAP AT RIB OF PANEL.

FIGURE "D"

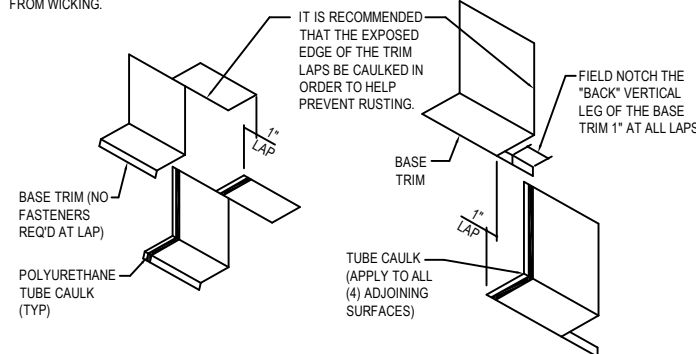
BASE TRIM LAP SEALANT

AT BASE TRIM LAPS, APPLY A BEAD OF POLYURETHANE TUBE CAULK (H3152) TO ALL ADJOINING SURFACES AND LAP 1". SEE BASE TRIM DETAIL FOR THE SPECIFIC TRIM FOR YOUR PROJECT.

IF JOB HAS OPTIONAL FOAM PANEL CLOSURES ORDERED AT BASE, ATTACH TO INSIDE OF WALL PANEL AT BASE AND FASTEN THROUGH PANEL AND CLOSURE, INTO BASE TRIM. FASTENING PATTERN WILL VARY PER WALL PANEL TYPE. REFER TO THE WALL PANEL ERECTION DETAIL FOR MORE FASTENING INFO.

USE SUPPLIED BASE CORNER PIECES OR FIELD MITER BASE TRIM AT CORNERS.

INSULATION HINT: AT THE BASE, FOLD THE INSULATION VAPOR BARRIER OVER THE FIBER TO HELP PREVENT WATER FROM WICKING.

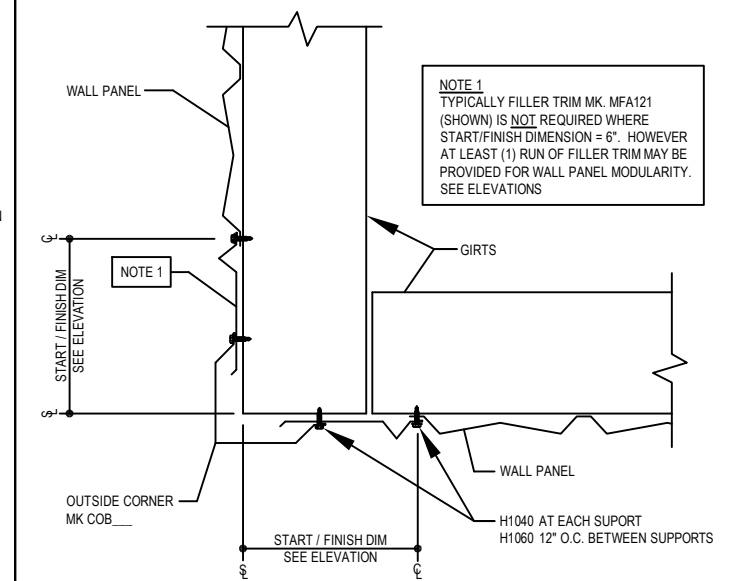


WALL SHEETING GENERAL NOTES

GA0000

STANDARD FASTENER SCHEDULE

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



OUTSIDE CORNER DETAIL

TRIM_352

PROJECT NAME	08/12/2023
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	
Engineering Performed By:	
Nucor Corporation	
200 Whetstone Rd.	
Swansea, SC 29460	
COA# F-1470	

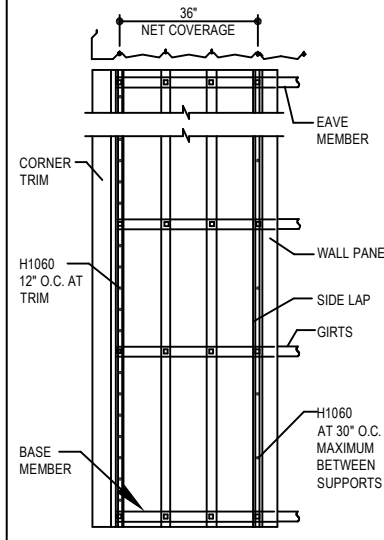
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JOB NUMBER	
A23B0716A	
SHEET TITLE	
CERTIFIED ERECTION DETAILS	

Professional Engineer Seal for Rajesh H. Bhagnari, State of North Carolina, Seal No. 24064. The seal is circular with 'NORTH CAROLINA PROFESSIONAL ENGINEER' around the perimeter and 'RAJESH H. BHAGNARI' in the center.

The seal remains only in the hands of the registered professional engineer whose name and address are on the seal. The seal is not to be used for any other purpose. The seal is not to be used for any other purpose. The seal is not to be used for any other purpose.

- 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.

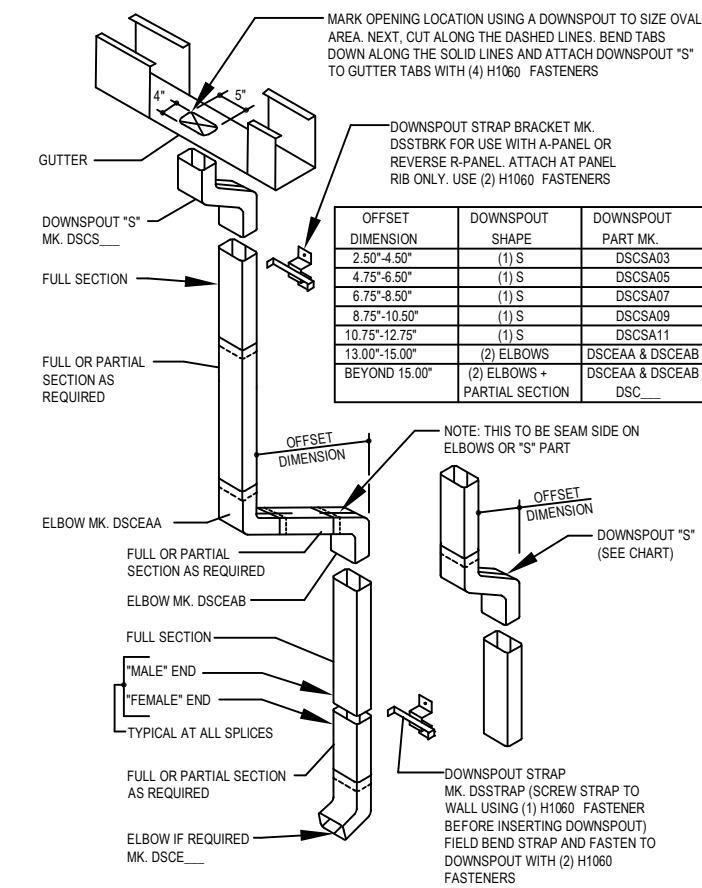
TRIM 534

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.

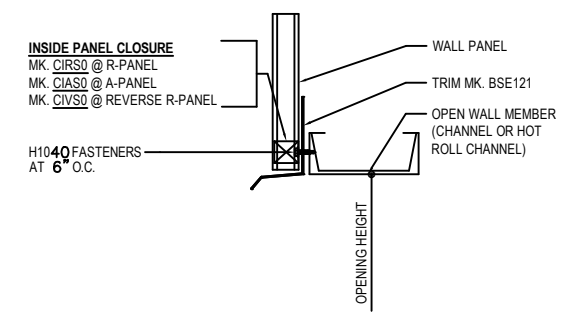
NOTE: GUTTER PROFILE MAY VARY. SEE LOW EAVE GUTTER DETAIL.



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

GA0230

ERECTOR NOTE:
 UNTIL WALL PANELS ARE INSTALLED, (3) H1040SCREWS 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
ENG	
PE	
ISSUE	FINALS

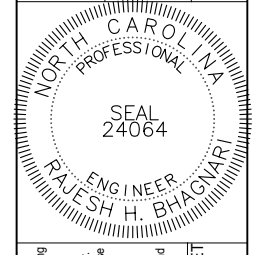
Engineering Performed By:
 Nucor Corporation
 200 Whetstone Rd.
 Swansea, SC 29460
 COA# F-1470

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