

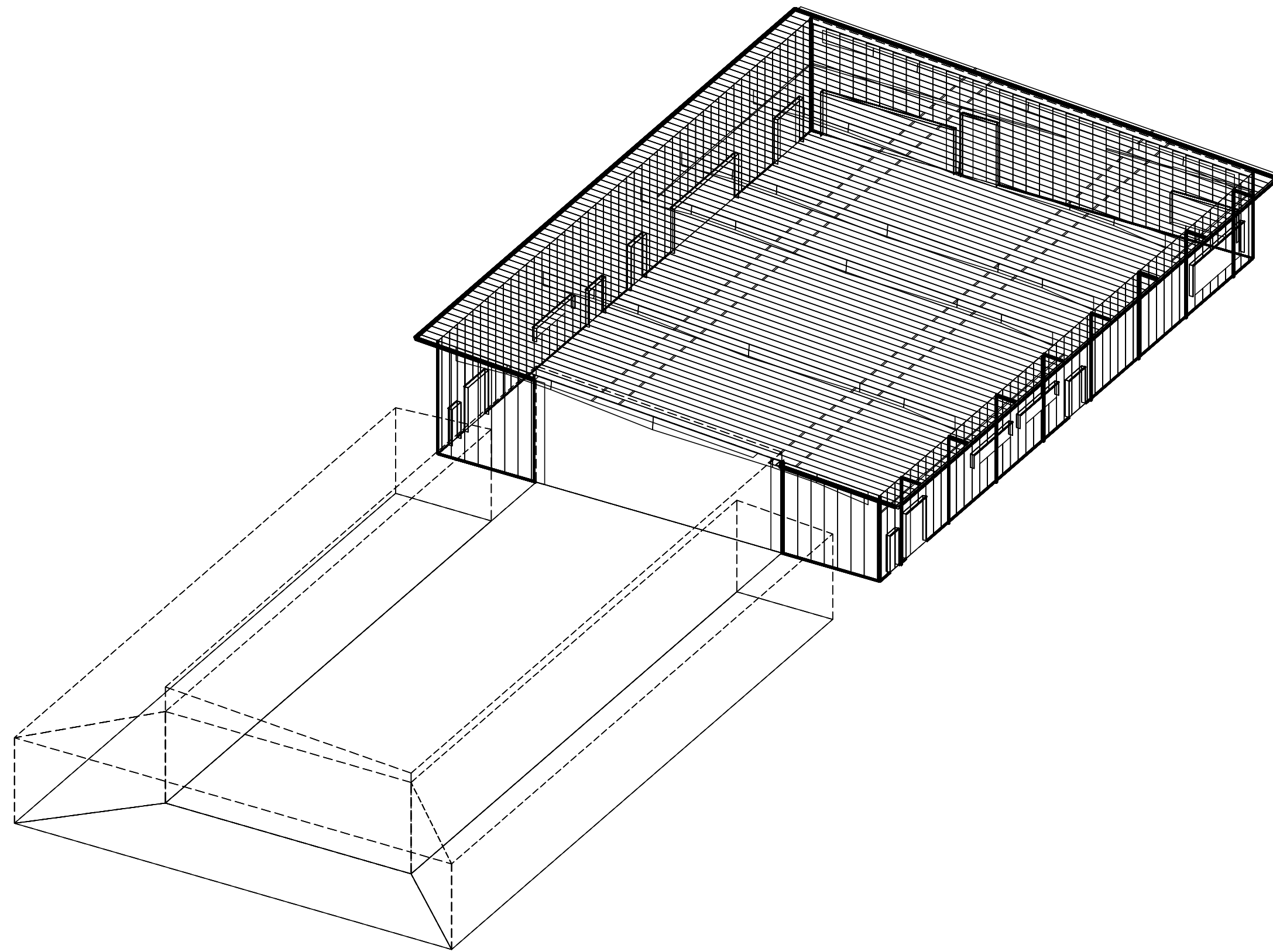


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DRAWING RELEASE HISTORY		
TYPE	DATE	DESCRIPTION
FINAL ERECTION DRAWINGS	5/3/2024	FOR CONSTRUCTION

BASIC ERECTION GUIDE 4001
BASIC PANELS AND ACCESSORIES ERECTION GUIDE 4003
RPR WALL PANEL ERECTION GUIDE 4030
SSR ROOF PANEL ERECTION GUIDE 4005



VP Buildings 3200 Players Club Circle Memphis TN 38125

GENERAL NOTES

MATERIALS

3 PLATE WELDED SECTIONS
 COLD FORMED LIGHT GAGE SHAPES
 BRACE RODS
 HOT ROLLED MILL SHAPES
 HOT ROLLED ANGLES
 HOLLOW STRUCTURAL SECTION (HSS)
 CLADDING

ASTM DESIGNATION

A529, A572, A1011, A1018
 A653, A1011
 A572, A510
 A36, A529, A572, A588, A992
 A529, A572, A588, A992
 A500
 A653, A792

GRADE 55
 GRADE 60
 GRADE 50
 GRADE 36 OR 50
 GRADE 50
 GRADE B
 GRADE 50 OR GRADE 80

HIGH STRENGTH BOLT TIGHTENING REQUIREMENTS

IT IS THE RESPONSIBILITY OF THE ERECTOR TO ENSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPLICABLE REGULATIONS. SEE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS FOR MORE INFORMATION. SEE ERECTION GUIDE FOR BOLT TIGHTENING INSTRUCTIONS. THE FOLLOWING CRITERIA MAY BE USED TO DETERMINE THE BOLT TIGHTNESS (I.E. SNUG TIGHT OR PRE-TENSION) UNLESS REQUIRED OTHERWISE BY LOCAL JURISDICTION OR CONTRACT.

ALL A490 BOLTS SHALL BE "PRE-TENSIONED". A325 BOLTS IN PRIMARY FRAMING AND BRACING CONNECTIONS MAY BE "SNUG-TIGHT" EXCEPT AS FOLLOWS;

PRE-TENSION A325 BOLTS IF BUILDING SUPPORTS A CRANE GREATER THAN 5 TON CAPACITY.

PRE-TENSION A325 BOLTS IF BUILDING SUPPORTS MACHINERY THAT CREATES VIBRATION, IMPACT, OR STRESS REVERSALS ON CONNECTIONS.

PRE-TENSION A325 BOLTS IF LOCATED IN HIGH SEISMIC AREAS. FOR IBC BASED CODES; HIGH SEISMIC IS DESIGN CATEGORY D, E OR F. SEE CODES AND LOADS SECTION BELOW FOR DETAILS.

PRE-TENSION ANY CONNECTION WITH DESIGNATION 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 "PRE-TENSIONED", EXCEPT FOR SECONDARY MEMBERS AND FLANGE BRACES.

SECONDARY MEMBERS AND FLANGE BRACE CONNECTIONS ARE ALWAYS "SNUG TIGHT", UNLESS INDICATED OTHERWISE IN ERECTION DRAWING DETAILS.

INSPECTION AND TESTING

SPECIAL INSPECTIONS AND TESTING REQUIRED BY AUTHORITY HAVING JURISDICTION (AHJ) DURING CONSTRUCTION AND/OR STEEL FABRICATION IS THE RESPONSIBILITY OF THE OWNER OR OWNERS AUTHORIZED AGENT. WHEN REQUIRED, THE OWNER SHALL EMPLOY A QUALITY ASSURANCE AGENCY (QAA) APPROVED BY THE AHJ. THE BUILDER IS RESPONSIBLE TO COORDINATE BETWEEN THE QAA FIRM AND BBNA FABRICATION FACILITIES. THE TYPE AND EXTENT OF SPECIAL INSPECTIONS AND NDT WELD TESTING MUST BE SPECIFICALLY STIPULATED IN CONTRACT DOCUMENTS OR BBNA WILL ASSUME SPECIAL INSPECTIONS AND/OR NDT TESTING ARE WAIVED AS PERMITTED BY THE BUILDING CODE BASED ON BBNA FACILITIES IAS AC472 ACCREDITATION.

<input checked="" type="checkbox"/> REVIEWED - NO EXCEPTIONS NOTED	<input type="checkbox"/> REVISE AND RESUBMIT
<input type="checkbox"/> REVIEWED - EXCEPTIONS NOTED	<input type="checkbox"/> REVIEWED

Checking is only for general conformance with design concept of the project and for general compliance with Contract Documents. Contractor is responsible for confirming and correcting dimensions at job sites for information which pertains to fabrication processes or construction techniques and for coordination of work of all trades. Checking of shop drawings shall not relieve the Contractor of responsibility for deviations from requirements of Contract Documents and for errors and omissions in the shop drawings.

BY: M. Simpson, P.E. DATE: 08/16/2024

MMSA
STRUCTURAL ENGINEERS
Michael M. Simpson + Associates, Inc.



This document has been electronically signed and sealed by Alan Jungnitsch, PE using my Digital Signature with PE seal affixed. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copy
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07/29/2024
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 FIRM F-0998

REVIEWED
PAGES 01-37
SALAH 05/02/24

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THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF VP BUILDINGS.

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.



D COVER SHEET

BUILDER	Lemartec Corporation
CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center - Operations
BUILDERS PG#	23068 - Ops



JOBNO	23-016001-01
DATE	4/29/2024
DRAWN / CHECK	AMD / CLS
PAGE	1

VP VERSION: 24.1.1
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Codes and Loads

WHEN MULTIPLE BUILDINGS ARE INVOLVED, SPECIFIC LOAD FACTORS FOR DIFFERING OCCUPANCIES, BUILDING DIMENSIONS, HEIGHTS, FRAMING SYSTEMS, ROOF SLOPES, ETC., MAY RESULT IN DIFFERENT LOAD APPLICATION FACTORS THAN INDICATED BELOW. SEE CALCULATIONS FOR FURTHER DETAILS. WIND LOADS ARE APPLIED TO OVERALL BUILDING ENVELOPE. COMMON WALLS BETWEEN CONNECTED SHAPES ARE NOT SUBJECT TO EXTERNAL WIND LOADS.
 City: Dunn County: Harnett State: North Carolina Country: United States

Building Code: 2018 North Carolina Building Code
 Building Code: 2015 International Building Code

Structural: 10AISC - ASD Rainfall: 1: 12.00 inches per hour
 Cold Form: 12AISI - ASD f'c: 3000.00 psi Concrete

Building Risk/Occupancy Category: II (Standard Occupancy)
 Collateral Gravity: 5.00 psf
 Collateral Uplift: 0.00 psf

Roof Live Load
 Roof Live Load: 20.00 psf Reducible
 Roof Covering + Second. Dead Load: Varies
 Frame Weight (assumed for seismic): 2.50 psf

Wind Load
 Wind Speed: Vult: 119.00 (Vasd: 92.18) mph
 The 'All Heights' Method is Used - User Modified
 Wind Exposure: C - Kz: 0.895
 Parts Wind Exposure Factor: 0.895
 Wind Enclosure: Enclosed
 Topographic Factor: Kzt: 1.0000
 Hurricane Prone Region
 NOT Windborne Debris Region
 Base Elevation: 0/0/0
 Primary Zone Strip Width: 2a: 15/4/13
 Parts / Portions Zone Strip Width: a: N/A
 Velocity Pressure: qz: 27.57 psf

Snow Load
 Ground Snow Load: pg: 10.00 psf
 Flat Roof Snow: pf: 7.70 psf
 Design Snow (Sloped): ps: 7.70 psf
 Rain Surcharge: 0.00 psf
 Specified Minimum Roof Snow: 10.00 psf (Code)
 Exposure Factor: 2 Partially Exposed - Ce: 1.00
 Snow Importance: Is: 1.000
 Thermal Factor: Kept just above freezing - Ct: 1.10
 Ground / Roof Conversion: 0.70
 Obstructed or Not Slippery

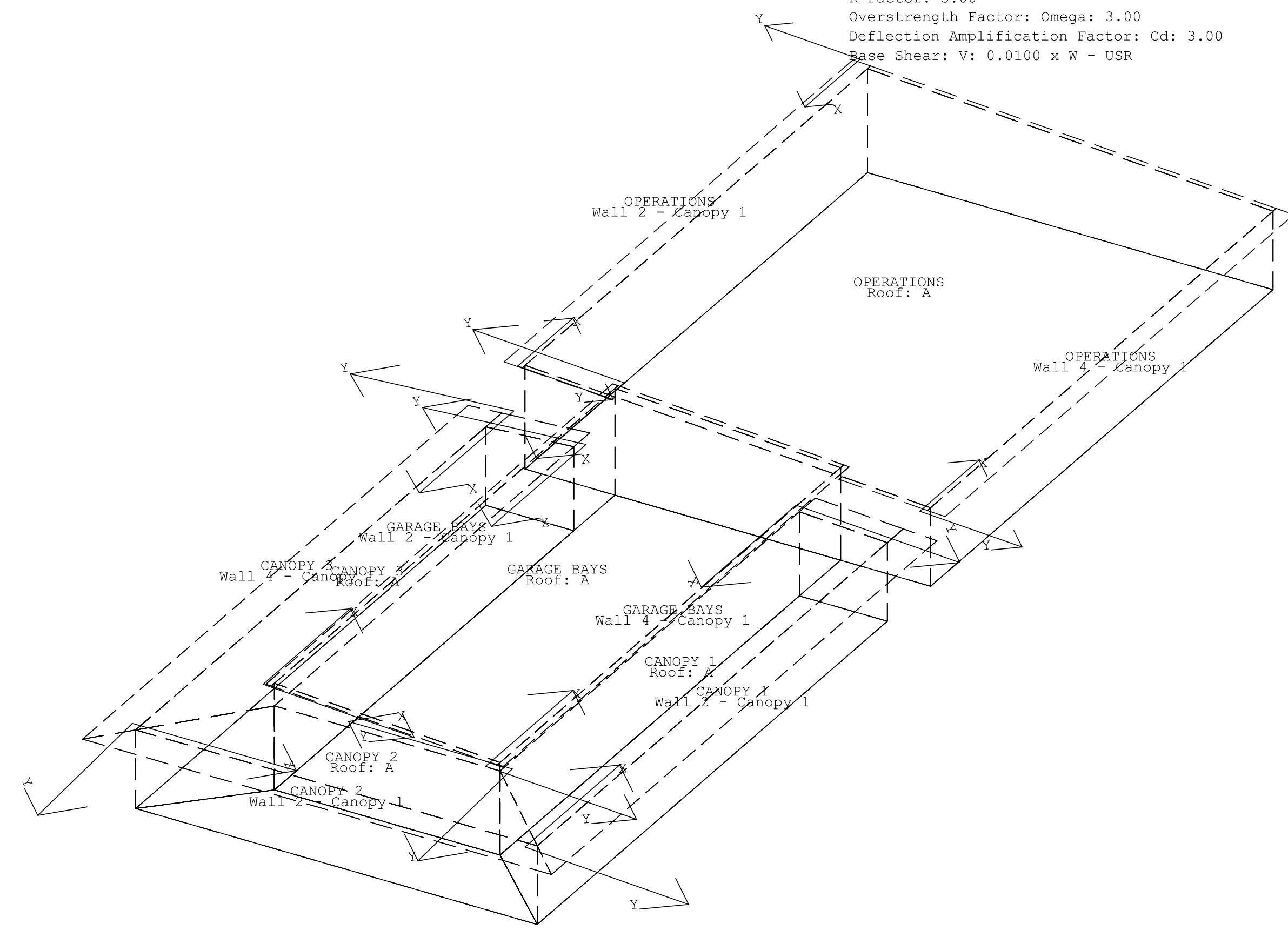
Seismic Load
 Lateral Force Resisting Systems using Equivalent Force Procedure
 Mapped MCE Acceleration: Ss: 17.90 %g
 Mapped MCE Acceleration: S1: 8.40 %g
 Site Class: Stiff soil (D)
 Seismic Importance: Ie: 1.000
 Design Acceleration Parameter: Sds: 0.1909
 Design Acceleration Parameter: Sd1: 0.0000
 Seismic Design Category: C
 Seismic Snow Load: 0.00 psf
 % Snow Used in Seismic: 0.00
 Diaphragm Condition: Rigid
 Fundamental Period Height Used: 22/4/5

Transverse Direction Parameters
 System NOT detailed for Seismic
 Redundancy Factor: Rho: 1.00
 Fundamental Period: Ta: 0.0000
 R-Factor: 3.00
 Overstrength Factor: Omega: 3.00
 Deflection Amplification Factor: Cd: 3.00
 Base Shear: V: 0.0100 x W - USR

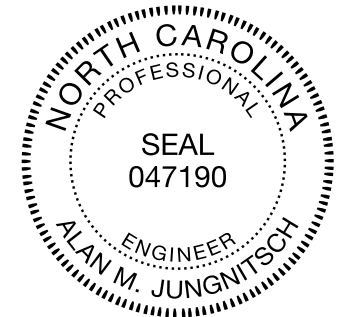
Longitudinal Direction Parameters
 System NOT detailed for Seismic
 Redundancy Factor: Rho: 1.00
 Fundamental Period: Ta: 0.0000
 R-Factor: 3.00
 Overstrength Factor: Omega: 3.00
 Deflection Amplification Factor: Cd: 3.00
 Base Shear: V: 0.0100 x W - USR

Snow Buildup Shape OPERATIONS	Surface Roof: A	Description	X Location	Y Location	Magnitude
OPERATIONS	Roof: A	Snow Drift (from Wall 3, Shape GARAGE BAYS) : Roof: A	0.0 ft	77.6 ft	24.1 psf
			0.0 ft	22.1 ft	24.1 psf
			12.6 ft	22.1 ft	0.0 psf
CANOPY 1	Roof: A	Snow Drift (from Wall 4, Shape GARAGE BAYS) : Roof: A	12.6 ft	77.6 ft	0.0 psf
			127.2 ft	0.0 ft	24.1 psf
			0.0 ft	0.0 ft	24.1 psf
CANOPY 2	Roof: A	Snow Drift (from Wall 1, Shape GARAGE BAYS) (1 of 3) : Roof: A	0.0 ft	10.1 ft	0.0 psf
			127.2 ft	10.1 ft	0.0 psf
			55.3 ft	0.0 ft	46.1 psf
CANOPY 2	Roof: A	Snow Drift (from Wall 1, Shape GARAGE BAYS) (2 of 3) : Roof: A	36.9 ft	0.0 ft	0.0 psf
			36.9 ft	13.1 ft	0.0 psf
			55.3 ft	13.1 ft	0.0 psf
CANOPY 2	Roof: A	Snow Drift (from Wall 1, Shape GARAGE BAYS) (3 of 3) : Roof: A	36.9 ft	0.0 ft	37.3 psf
			18.4 ft	0.0 ft	37.3 psf
			18.4 ft	12.9 ft	0.0 psf
CANOPY 2	Roof: A	Snow Drift (from Wall 1, Shape GARAGE BAYS) (3 of 3) : Roof: A	36.9 ft	12.9 ft	0.0 psf
			18.4 ft	0.0 ft	28.5 psf
			0.0 ft	0.0 ft	28.5 psf
CANOPY 3	Roof: A	Snow Drift (from Wall 2, Shape GARAGE BAYS) : Roof: A	0.0 ft	12.7 ft	0.0 psf
			18.4 ft	12.7 ft	0.0 psf
			127.2 ft	0.0 ft	30.5 psf
CANOPY 3	Roof: A	Snow Drift (from Wall 2, Shape GARAGE BAYS) : Roof: A	127.2 ft	8.0 ft	0.0 psf
			6.9 ft	8.0 ft	0.0 psf
			0.0 ft	4.5 ft	13.4 psf
CANOPY 3	Roof: A	Snow Drift (from Wall 1, Shape OPERATIONS) : Roof: A	0.0 ft	0.0 ft	30.5 psf
			-6.8 ft	1.0 ft	26.7 psf
			-6.8 ft	21.6 ft	50.4 psf
CANOPY 3	Roof: A	Snow Drift (from Wall 1, Shape OPERATIONS) : Roof: A	13.0 ft	21.6 ft	0.0 psf
			6.9 ft	8.0 ft	0.0 psf
			-6.8 ft	0.0 ft	25.5 psf
CANOPY 3	Wall 4 - Canopy 1	Snow Drift (from Wall 1, Shape OPERATIONS) : Wall: 4 - Canopy: 1	0.0 ft	0.0 ft	50.4 psf
			0.0 ft	0.5 ft	50.4 psf
			19.8 ft	0.5 ft	0.0 psf
CANOPY 3	Wall 4 - Canopy 1	Snow Drift (from Wall 1, Shape OPERATIONS) : Wall: 4 - Canopy: 1	19.8 ft	0.0 ft	0.0 psf
			0.0 ft	0.0 ft	0.0 psf
			0.0 ft	0.0 ft	0.0 psf

1. The Snow Buildup loading shown is in addition to the flat or sloped roof snow.
2. The X and Y Location dimensions are from the point of origin of each surface.



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FOR CONSTRUCTION

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			<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="4" style="text-align: center;">NTS</td> </tr> </tbody> </table>	REV		DATE	BY	DESCRIPTION					NTS				<table border="1"> <tr> <td>BUILDER</td> <td>Lemartec Corporation</td> </tr> <tr> <td>CUSTOMER</td> <td>Duke Energy</td> </tr> <tr> <td>LOCATION</td> <td>Dunn, North Carolina</td> </tr> <tr> <td>PROJECT</td> <td>Duke Energy Dunn Operations Center</td> </tr> <tr> <td>BUILDERS PO#</td> <td>23068 - Ops</td> </tr> </table>	BUILDER	Lemartec Corporation	CUSTOMER	Duke Energy	LOCATION	Dunn, North Carolina	PROJECT
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BUILDER/CONTRACTOR RESPONSIBILITIES

VP Buildings follows the guidelines as outlined in the AISC and MBMA Codes of Standard Practice. VP Buildings standard product specifications, design, fabrication, quality criteria shall govern all work unless stipulated otherwise in the contract documents. In case of discrepancies between VP Buildings structural plans and plans for other trades, VP Buildings structural plans shall govern.

It is the responsibility of the Builder to obtain approvals and permits from all governing agencies and jurisdictions as required. Approval of VP Buildings drawings constitutes the builders acceptance of VP interpretation of the contract purchase order. Unless specific design criteria concerning interface design and details are furnished as part of the contract, VP Buildings design assumptions shall govern.

VP engineers are not Project Engineers or Engineer of Record for the overall project. VP engineering supply sealed engineering design data and drawings for VP supplied material as part of the overall project for use by others to obtain permits, approvals, and coordinate with other trades. All interface and/or compatibility of any materials not furnished by VP are to be considered and coordinated by the builder or A/E firm.

CONSTRUCTION & ERECTION RESPONSIBILITY

The Builder is responsible for construction in strict accordance with VP Buildings "FOR CONSTRUCTION" drawings and all applicable product installation guides. VP is not responsible for work done from any other VP drawings that are not marked "FOR CONSTRUCTION", nor any drawings prepared by others.

As erected field assemblies of members shall be as specified in MBMA Code of Standard Practice (in Canada – CSA S16), which require L/500 tolerance of installed members. Occasional field work including shimming, cutting, coping, and drilling for final fit-up are considered part of erection. Specified field work and field welding conditions indicated on these drawings shall also be included in the erectors scope of work. See Erection Guide for shimming procedure. For building with top riding bridge cranes see Crane Data drawing for column plumb tolerance.

The building erector shall be properly licensed and experienced in erecting metal building systems. The Builder is responsible for having knowledge of, and shall comply with, all OSHA requirements and all other governing site safety criteria. The builder is responsible for designing, supplying, locating and installing temporary supports and bracing during erection of the building. VP bracing is designed for code required loads after building completion and shall not be considered as adequate erection bracing. See Erection Guide.

Shimming of steel buildings during erection may be required to accomodate allowable tolerances during fabrication and erection. Special care should be taken by the building erector to shim connections where key dimensions must be maintained for building performance as even small tolerances can have a significant impact on critical dimensions such as height, clearances and plumbness, especially as the size of the member or building increases. Conditions where shimming should be expected can include but are not limited to large door openings, critical clear height requirements, cranes, buildings greater than 45 feet in height, clear spans greater than 125 feet and adjacent frames with different characteristics (like clear span frames adjacent to an endwall or modular frame). Shims are normally provided by the erector, but may be ordered upon request by contacting your Project Manager.

EXISTING STRUCTURES

VP must be advised of any structure that is within 20 ft. of VP’s building. Load effects from snow drifting, wind effects, and seismic separation must be considered for both the new and existing structures. VP has designed the new VP building for these effects. The owner/builder are responsible for employing a Professional Engineer to review and verify the existing structure for all load effects from the adjacent VP building.

BRACING

Tension brace rods work in pairs to balance forces caused by initial tensioning. Care must be taken while tightening brace rods so as not to cause accidental or misalignment of components. All rods must be installed loose and then tightened. Rods should not exhibit excessive sag. For long or heavy rods, or angles it may be necessary to support the rods at mid-bay by suspending them from secondary members.

Bracing for seismic or wind loading of objects or equipment that are not a part of the VP structure must be designed by a qualified professional to deliver lateral loads to primary frames and rod bracing struts. Equipment bracing and suspension connections must not impose torsion or minor axis loads, or cause local distortion in any VP components. VP accepts no responsibility for design or installation of bracing systems not furnished by VP.

FIELD WELDING

All field welding shall be done at the direction of a design professional, and done in accordance with governing requirements (AWS in USA, CWB in Canada) by welders qualified to perform the welding as directed by the applicable welding procedure specification (WPS). A WPS shall be prepared by the contractor for each welding variation specified. The contractor is responsible for any special welding inspection as required by local jurisdiction. Filler metal shall be 70 ksi (480 MPa) tensile strength. For welds in high seismic force resisting system (Seismic Cat D, E or F), minimum Charpy V-Notch toughness shall meet AISC-341 criteria (20 ft-lbs min @ 0Deg F). Interpass temperatures shall not exceed 550Deg F (300Deg C).

DELIVERIES

It is the responsibility of the builder to have adequate equipment available at the job site to unload trucks in a safe and timely manner. The Builder will be responsible for all retention charges from carriers as a result of job site unloading delays.

SIGNAGE

The Builder is responsible for furnishing signs as required by Code and the Building Department, including but not limited to, exits, occupancy limits, floor loading limits, and bulk storage limits. Floor loading signs shall clearly indicate maximum floor live load permitted. Bulk storage facilities shall have signs clearly posted on all loaded walls indicating the type of commodity stored and the maximum storage height. Signs shall be clearly visible when building is fully loaded to design level. Overloading of floors or walls may result in failure.

Claims for damage or shorts MUST be noted on the Bill-of-Lading or delivery receipt and filed against the carrier by the consignee as per VP’s Terms of Sales (F.O.B. Plant) under the Uniform Commercial Code. It is critical that damages or shorts be noted on the Bill-of-Lading or you have little recourse with the carrier. Immediately upon delivery of material, material quantities are verified by the Builder against quantities billed on the shipping document. Neither the Manufacturer nor the carrier is responsible for material shortages against quantities billed on the shipping document if such shortages are not noted on the shipping documents upon delivery of material and acknowledged by the carriers agent. For materials concealed in bundles, boxes, or crates, shortages must be reported immediately upon unpacking. Should products get wet, bundled and crated materials must be unpacked and unbundled immediately to provide drainage of trapped moisture. See Erection Guide for proper job site storage procedure.

SEALANTS

Sealants shall be applied in strict accordance with VP details or weather tightness will be compromised. Sealant must be applied in temperatures and weather conditions consistent with labeling.

INDEPENDENT MEZZANINES

Independent mezzanines must be designed by a professional engineer. The engineer must ensure that proper isolation from the VP building has been provided to avoid structural damage due to differential movements, or inadvertently apply loads to the VP structure. VP accepts no responsibility for the design of the independent mezzanine.

FIRE CODE COMPLIANCE

It is the responsibility of the project design professional and builder to comply with local fire code regulations including consideration of, but not limited to, building use and occupancy, all building construction materials, separation requirements, egress requirements, fire protection systems, etc. Builder shall advise VP of any special requirements to be furnished by VP.

FIELD MODIFICATIONS

Modifications to this building from details and instructions contained on these drawings must be approved in writing by VP Buildings engineers, or other licensed structural engineer. This includes, but is not limited to, removal of roof or wall cladding, removing or moving any flange braces or rod braces, cutting of openings for doors, windows or RTU’s, correction of fabrication errors, etc. The owner shall not impose loads to this structure beyond what is specified for this building in the contract documents. VP Buildings accepts no responsibility for the consequences of any unauthorized additions, alterations, or added loads to this structure.

If the builder intends to invoice VP Buildings for modifications in excess of \$1000, The builder must notify VP Buildings immediately, and obtain a Work Authorization from VP Buildings prior to proceeding. All final claims must be submitted to VP Buildings with all supporting documentation within 30 days of the building completion. Claims submitted without work authorizations, or after 30 days will not be accepted. Correction of minor misfits, shimming and plumbing, moderate amount of reaming, drilling, chipping / cutting and minor welding are considered by Code of Standard Practice to be part of erection are not subject to claim reimbursement.

CONCRETE/MASONRY/CONVENTIONAL STUD WALLS

The engineer responsible for the design of the wall system is responsible for coordinating with, or specifying to VP Buildings, any wall to steel compatibility issues such as drift and deflection compatibility, special base details, and wall to VP steel connections. All fasteners, sealant and counter flashing of wall systems are to be provided by contractor. The engineer responsible for the wall shall design the anchorage to VP supporting elements consistent with Code required forces.

PANELS

Oil canning is an inherent characteristic of cold formed steel panels. It is the result of several factors that include induced stresses in the raw material delivered to VP, fabrication methods, installation procedures, and post installation thermal forces. Thru fastened panels will exhibit some dimpling when installed, especially when insulation is installed between panels and secondary supports. Dimpling can be minimized by careful installation, taking care not to over drive fasteners.

Roof rumble is a phenomenon that is caused by wind gusts lifting up on the roof panels and then springing back into place. All panels experience this action to some degree, especially with concealed clip Standing Seam panels. Roof rumble noise may be minimized by providing a layer of blanket insulation between the panels and any hard support surface such as steel secondary members, substrates such as plywood, steel decking, or rigid board insulation. A minimum of 3 inch thick blanket is recommended over steel secondary members, or 2 inch over substrates.

Oil canning, dimpling, and roof rumble do not affect the structural integrity or weather tightness of the panels and is not grounds for rejection of panels.

The Standing Seam joint detail is designed with an interlocking feature for ease of installation. However, it is imperative that installed Standing Seam panels be secured to the secondary structural members and properly seamed prior to departure from the job site each day.

SKYLIGHTS

Local building departments may require added fall restraint due to conditions that may affect the skylight structural integrity. It is the responsibility of the builder to determine and provide any added fall restraint under the skylight as may be required by your building department.

RAIN WATER RUNOFF

Drainage systems must be designed by the project professional to comply with code requirements. VP is not responsible for drainage designs, overflow scuppers, down piping, etc. The project professional and contractor are responsible to ensure that primary drains and overflow devices such as scuppers and auxiliary drains are provided as required for the required rain intensity at the building perimeter and at valley conditions to prevent ponding.

STEEL SHOP COAT

The purpose of VP’s shop coat is to provide protection for the steel members during transportation, during temporary job site storage and during erection. Standard shop formulation is not designed to perform as a finish coat when exposed to environmental conditions. Members shall be kept free of the ground and properly drained during job site storage. It is the Builder’s responsibility to ensure that if a finish coat is being applied over VP shop coat that the painting contractor verifies compatibility between his finish coat and VP’s shop coat.

VP BUILDINGS ACCREDITATIONS AND APPROVALS

Fabricator Approvals

- IAS AC472 Approvals: (www.iasonline.org/services/metal-building-inspection) Listed under BlueScope Buildings North America, Inc. City of Los Angeles, CA #FB00031; City of Houston, TX 767 & 429; City of Phoenix, AZ C19-02008; Clark County, NV 43 & 833, San Bernardino County, CA 289 State of Utah, City of Richmond, CA.

Design Approvals

- IAS AC472 Approvals: (www.iasonline.org/services/metal-building-inspection) Listed under Varco Pruden Buildings, a Division of BlueScope Buildings North America, Inc.

Canadian CSA A660 Certifications

- (www.cwbgroup.org) Listed under BlueScope Buildings North America, Inc.

Engineering Certifications of Authorization

- USA--AL#CA-5589-E; AZ#22225-0; AR#576; FL#30427; GA#PEF007551; ID#C-2470; IL#184-002649; KS#E-29; KY#4490; LA#EF6722; MS#E-0592; MO#E-2010007736; NC#F-0998; ND#1579PE; NJ#24CA28318800; NV#20437; OH#05898; OK#CA4170PE; RI#8838; SC#6206; SD#C-1787; TX#F4828; VA#0411001520; VA#0411001518; WA#4119; WV#C03059-00
- CAN--AB#P08900; NB#F0951; NL#D0044; NS#30123; NT#P062; ON#100148796; and YT#PP134

ICC Evaluation Reports (www.icc-es.org)

- SSR Roof System – #ESR-2527

State of Florida Product Approvals (www.floridabuilding.org)

- Approved Products Listed Under VP Buildings, Inc. VP TextureClad – See Transamerican Structuroac, Inc.

Dade Co. Product Approval (www.miamidade.gov/buildingcode)

- Approved Products Listed Under Varco Pruden Buildings, Inc. VP TextureClad – See Transamerican Structuroac, Inc.

Underwriter’s Laboratory Approvals (Available only when specified in contract)

- SSR Roof-UL#TGKX-113; SSR Composite Roof Class 90-UL#TGKX-113A;
- SSR Roof w/Super Block; Class 90-UL#TGKX-328;
- Panel Rib Roof UL Class 60-UL#TGKX-60; Panel Rib Roof UL Class 90-UL#TGKX-64;
- VP SLR II Roof Class 90-UL#TGKX-90, -180, -435, -435A, -176, -238, -238A, -238B

Factory Mutual Approved Assemblies (Available only when specified in contract)

- SSR Roof Systems are approved in various type applications and listed in FM Approval Guide. 24 Ga SSR (0.0227" Nominal), is available in Class 1-60, 1-75, 1-90. 22Ga SSR (0.0277" Nominal), is available in Class 1-75, 1-90-, 1-120.
- SLR II Roof Systems are approved in various type applications and listed in FM Approval Guide. 24 Ga SLR II (0.0227" Nominal), is available in Class 1-75 and 1-120.

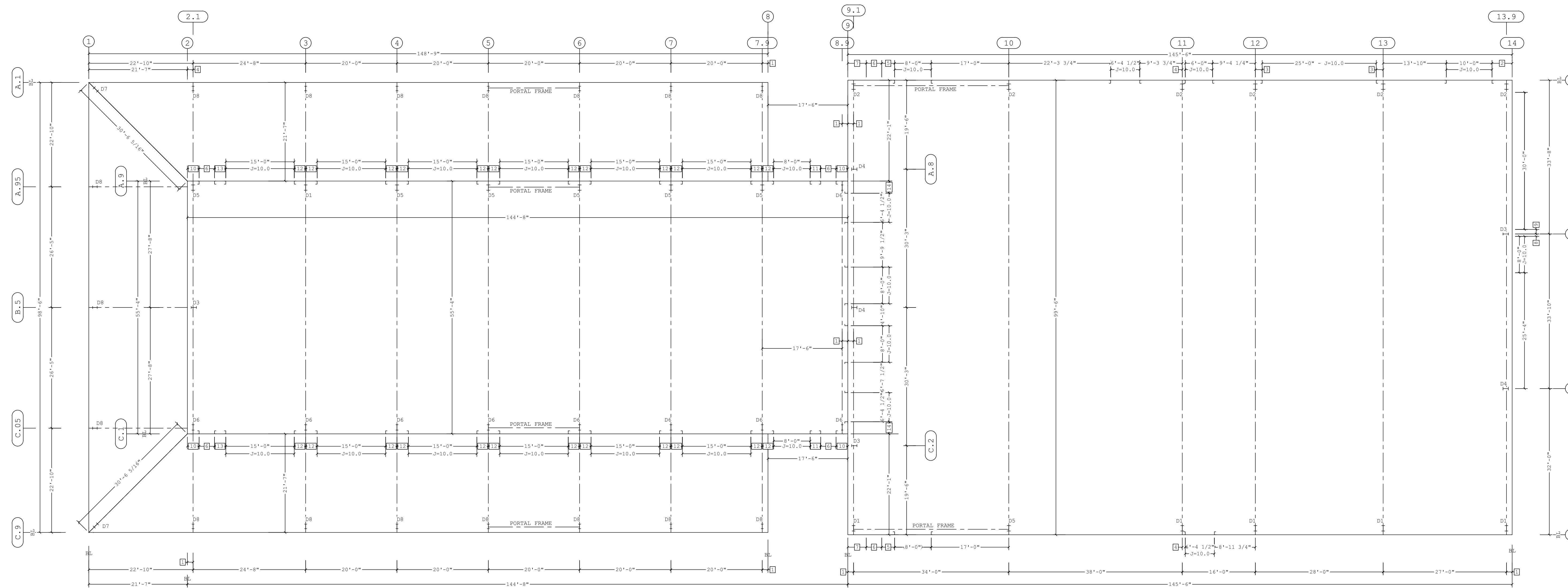
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07/29/2024
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.
 NORTH CAROLINA REGISTERED ENGINEERING
 FIRM F-0998

FOR CONSTRUCTION

<p>THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.</p>	<p>THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF VP BUILDINGS.</p> <p>THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING. DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.</p>	<p>D</p> <p>VP Buildings 3200 Players Club Circle Memphis TN 38125</p>	<p>ERECTION NOTES</p>		<p>VP BUILDINGS VARCO PRUDEN</p> <p>A BlueScope Steel Company VPC VERSION: 24.1.1</p>	<p>JOBNO 23-016001-01</p> <p>DATE 4/29/2024</p> <p>DRAWN/CHECK AMD CLS</p> <p>PAGE 3</p>
			<p>REV</p> <p>DATE</p> <p>BY</p> <p>DESCRIPTION</p>	<p>BUILDER Lemartec Corporation</p> <p>CUSTOMER Duke Energy</p> <p>LOCATION Dunn, North Carolina</p> <p>PROJECT Duke Energy Dunn Operations Center</p> <p>BUILDERS PO# 23068 - Ops</p>		

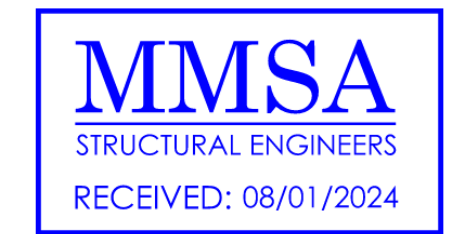


- 15 0'-0"
- 14 2'-8"
- 13 2'-5 5/8"
- 12 2'-6"
- 11 2'-3 5/8"
- 10 2'-6 7/8"
- 9 1'-0"
- 8 6"
- 7 4'-0 1/2"
- 6 3'-4 1/2" J=8050
- 5 2'-10"
- 4 7 3/4"
- 3 1'-6"
- 2 4'-5"
- 1 1'-3"

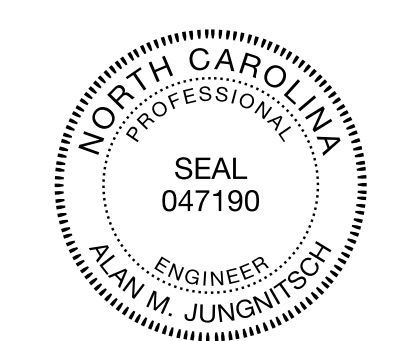
□ Dimension Key

ANCHOR ROD PLAN

Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



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 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

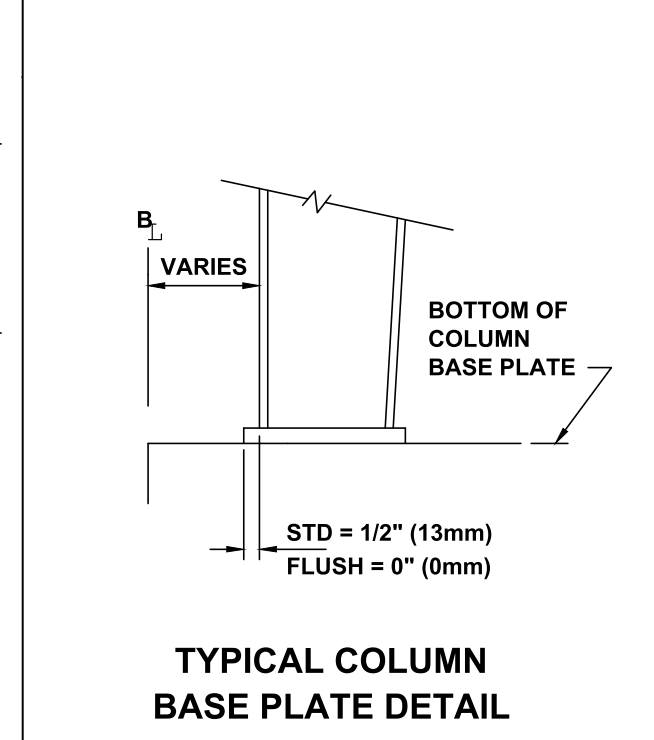
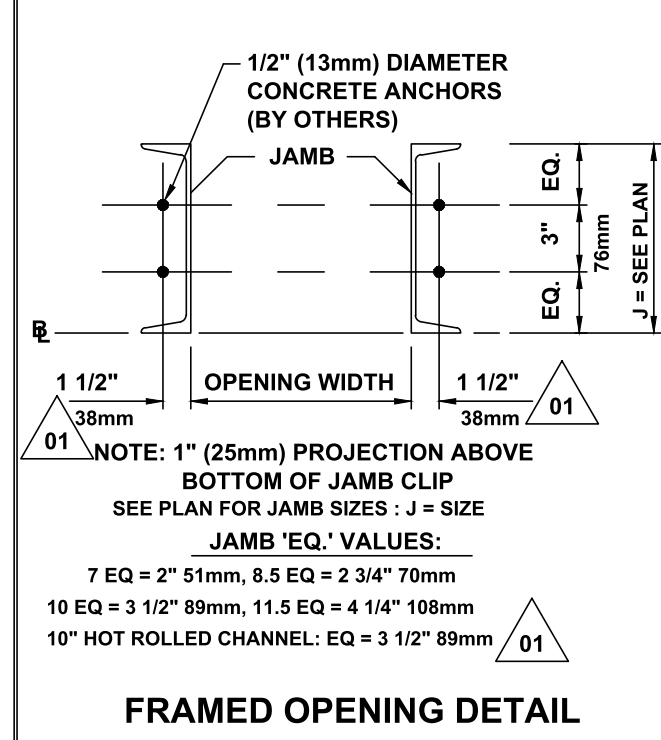
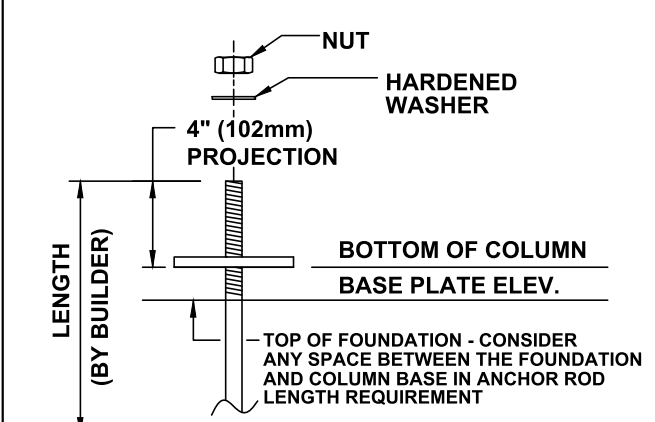
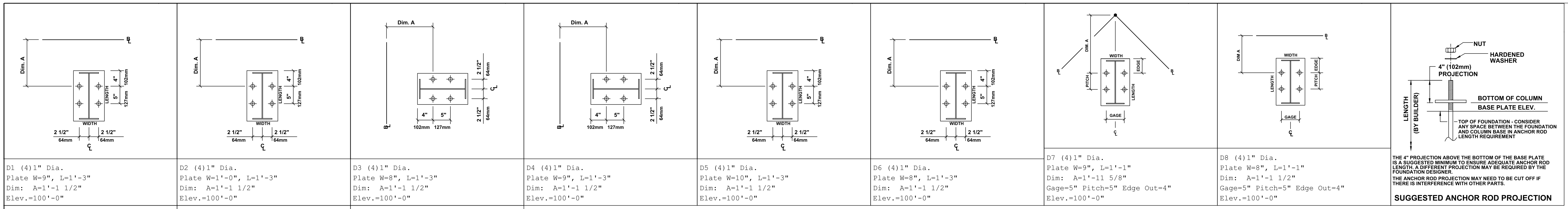
<-> THE BUILDING IS DESIGNED WITH BRACING DIAGONALS IN THE DESIGNATED BAYS. COLUMN BASE REACTIONS, BASE PLATES AND ANCHOR RODS ARE AFFECTED BY THIS BRACING AND DIAGONALS MAY NOT BE RELOCATED WITHOUT CONSULTING THE BUILDING SUPPLIERS ENGINEER.

THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.

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THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

VP Buildings 3200 Players Club Circle Memphis TN 38125				ANCHOR ROD PLAN	
REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation
				CUSTOMER	Duke Energy
				LOCATION	Dunn, North Carolina
				PROJECT	Duke Energy Dunn Operations Center
				BUILDERS FOR	23068 - Ops
NTS				VP BUILDINGS VARCO PRUDEN A BlueScope Steel Company VPC VERSION: 2023.4a	
				JOBNO	23-016001-01
				DATE	3/14/2024
				DRAWN/CHECK	SY
				PAGE	4



- ANCHOR RODS, NUTS, HARDENED WASHERS AND ANY OTHER EMBEDDED ITEMS ARE TO BE FURNISHED BY CONTRACTOR.
- ANCHOR ROD DIAMETERS WERE DETERMINED BY ALLOWABLE SHEAR AND TENSION PER AISC SPECIFICATIONS (FY=36KSI). (ASTM F1554 GRADE 36) ANCHOR ROD LENGTH, EFFECTS OF EMBEDDED ANCHOR ROD EDGE DIMENSIONS AND METHOD OF TRANSFERRING FORCES FROM ANCHOR RODS TO FOOTINGS ARE TO BE DETERMINED BY OTHERS.
- UNLESS OTHERWISE SPECIFIED, ANCHOR RODS ARE DESIGNED AND DETAILED AS "CAST-IN-PLACE" ANCHOR RODS WITH "SNUG TIGHT" CONNECTIONS.
- FOUNDATION MUST BE LEVEL, SQUARE AND SMOOTH. ANCHOR RODS MUST BE ACCURATELY PLACED AS SHOWN ON THIS DRAWING OR STEEL WILL NOT FIT. THE BUILDER IS RESPONSIBLE FOR ACCURATE SETTING OF ANCHOR RODS PER AISC CODE OF STANDARD PRACTICE, SEC 7.5. VARIATIONS ARE SUMMARIZED BELOW:
 - CENTERS OF ANY TWO ARS WITHIN A COLUMN BASE GROUP: +1/8"
 - CENTERS OF ADJACENT AR GROUPS: +1/4"
 - TOPS OF ARS: +1/2"
 - ACCUMULATED DIM BETWEEN CENTERS OF AR GROUPS ALONG COLUMN LINE: +1/4" PER 100FT., NOT TO EXCEED 1" TOTAL.
 - DIM FROM CENTER OF ANY AR GROUP FROM COLUMN LINE: +1/4"
- DESIGN LOADS AND REACTIONS ARE FURNISHED IN THE REACTIONS REPORT.

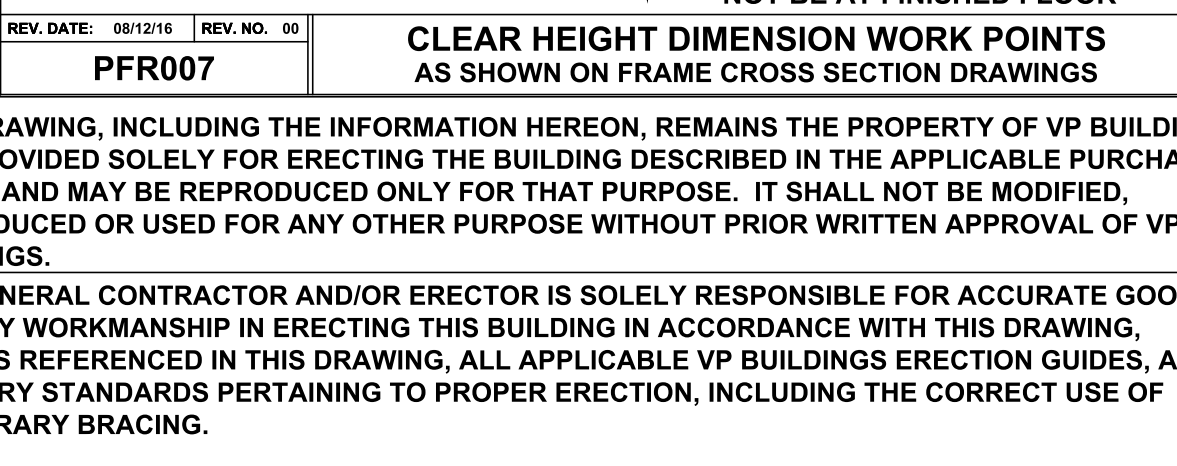
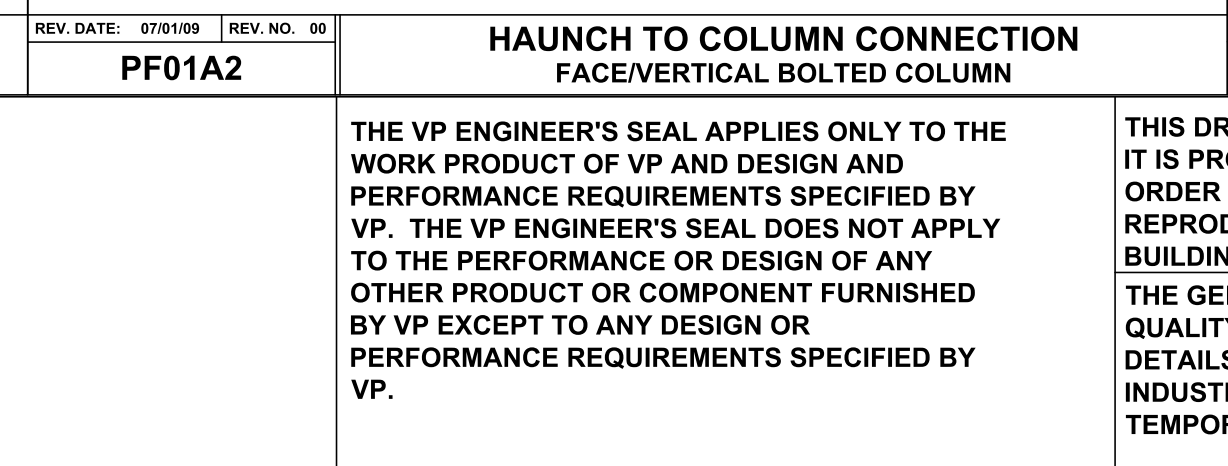
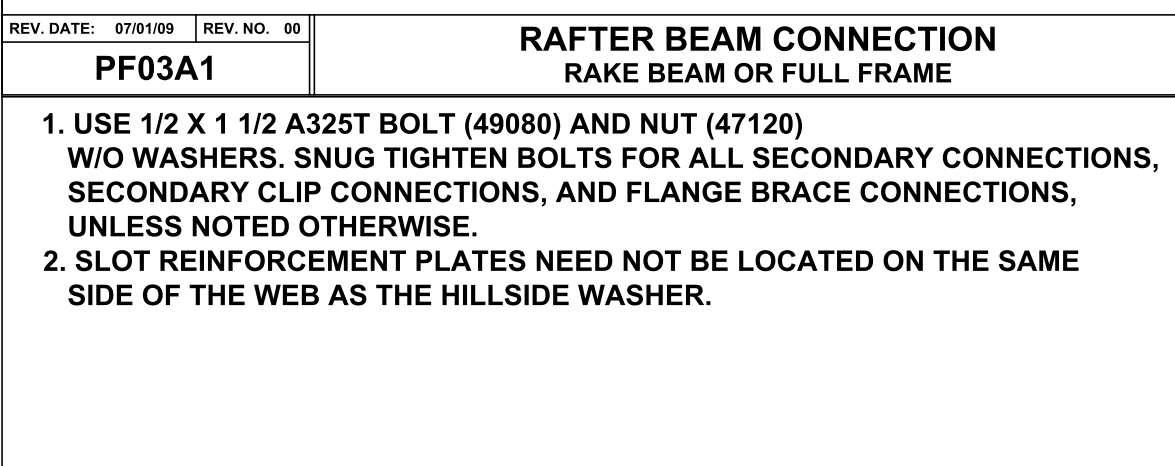
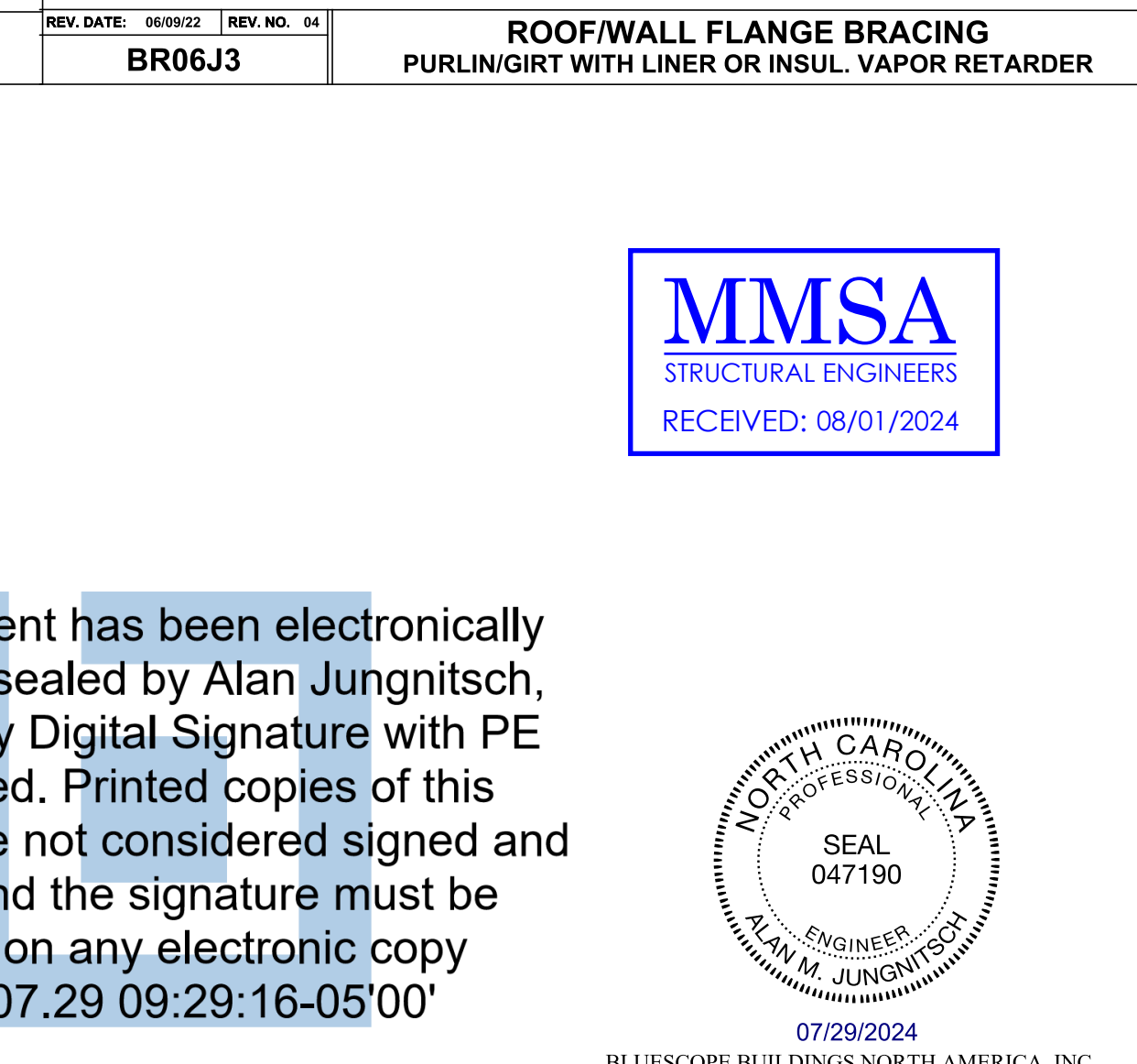
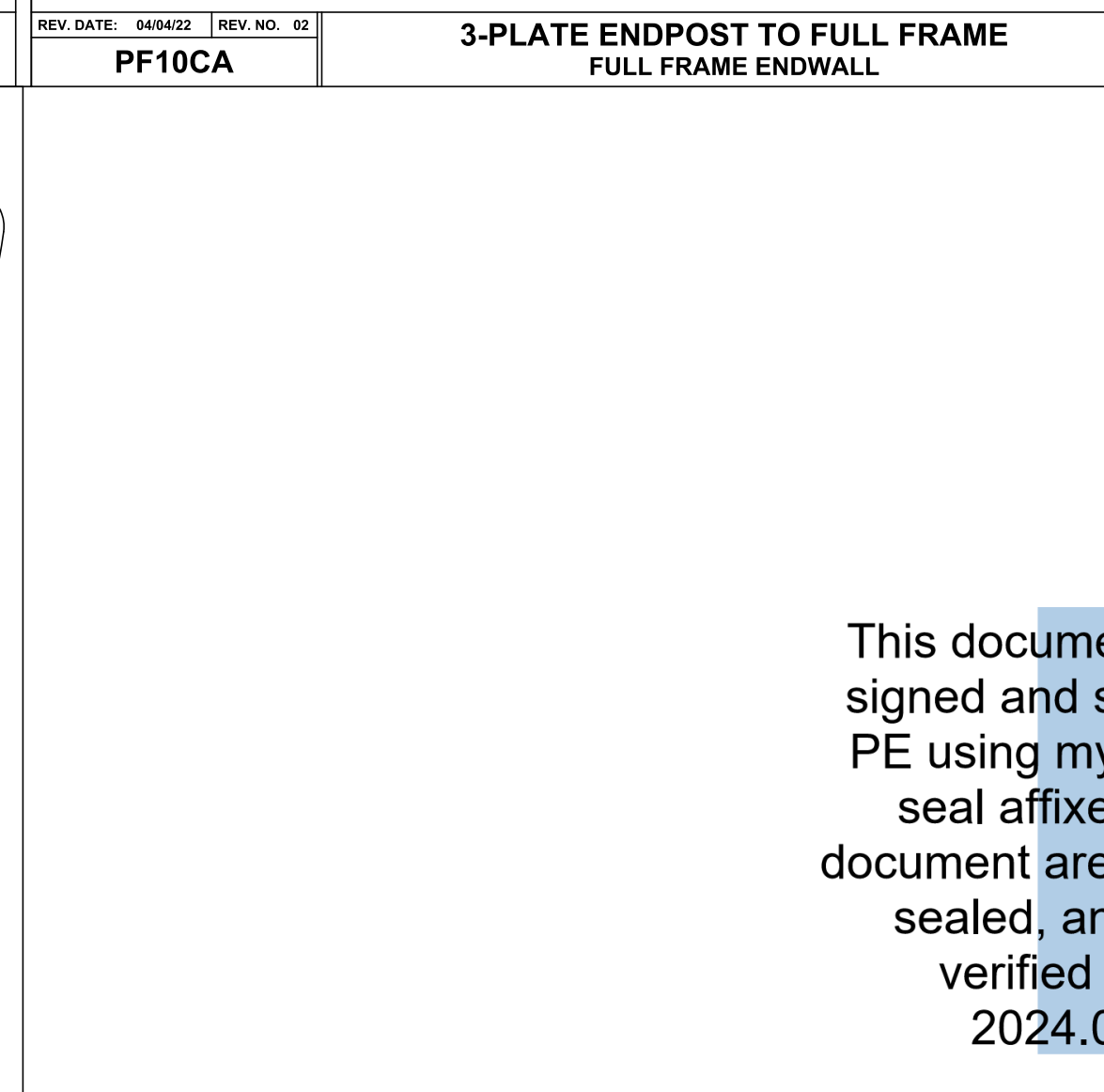
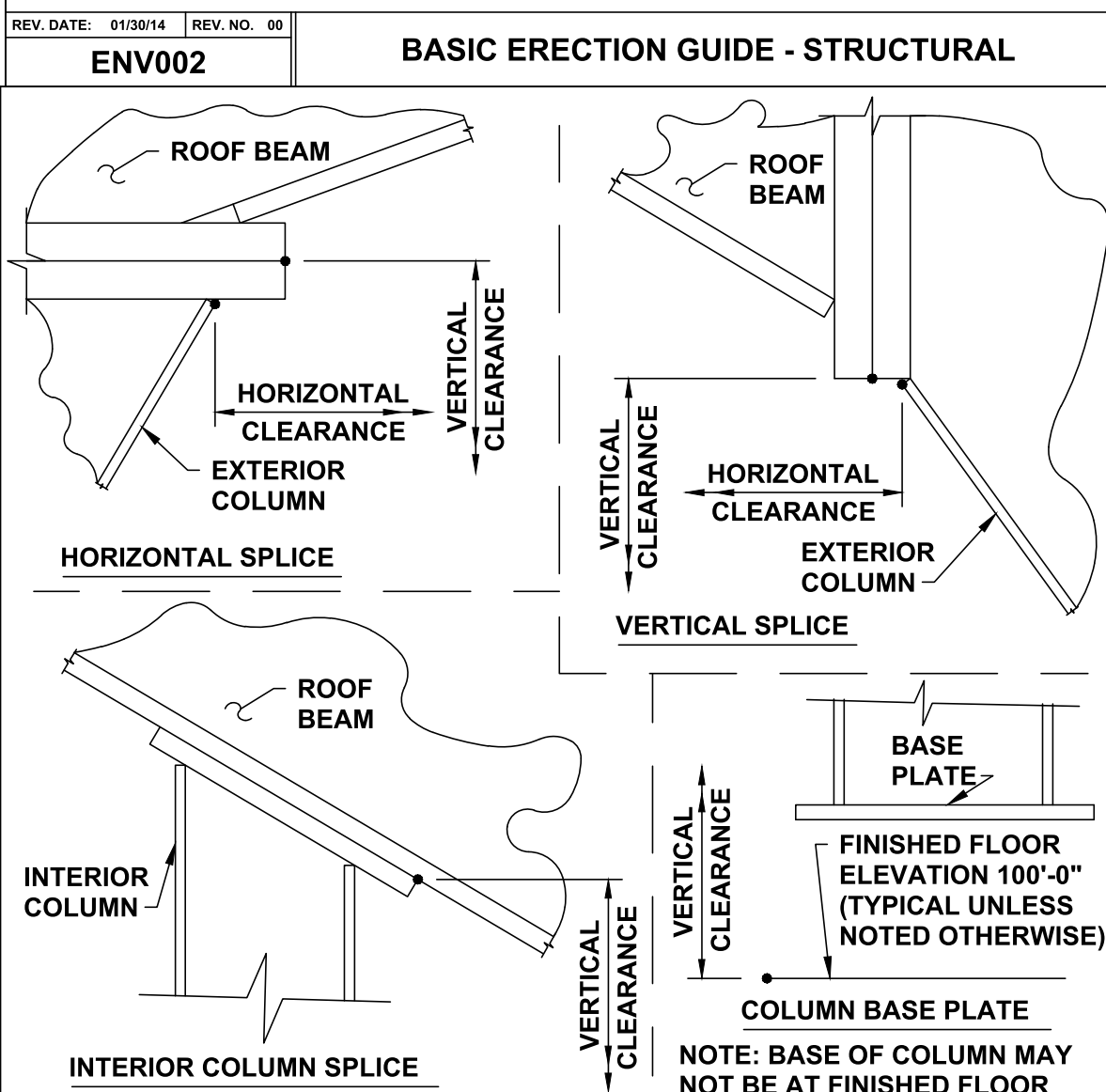
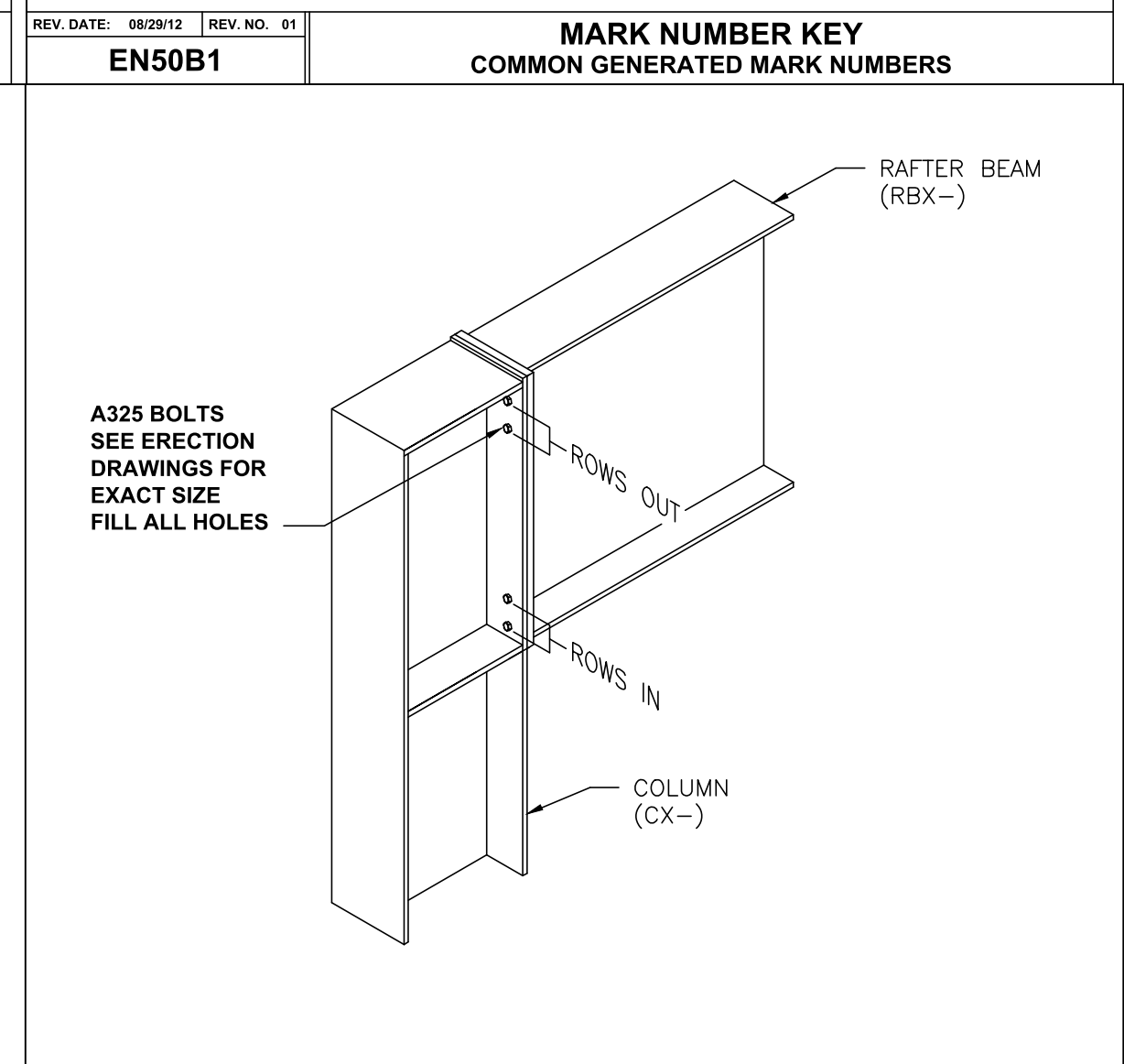
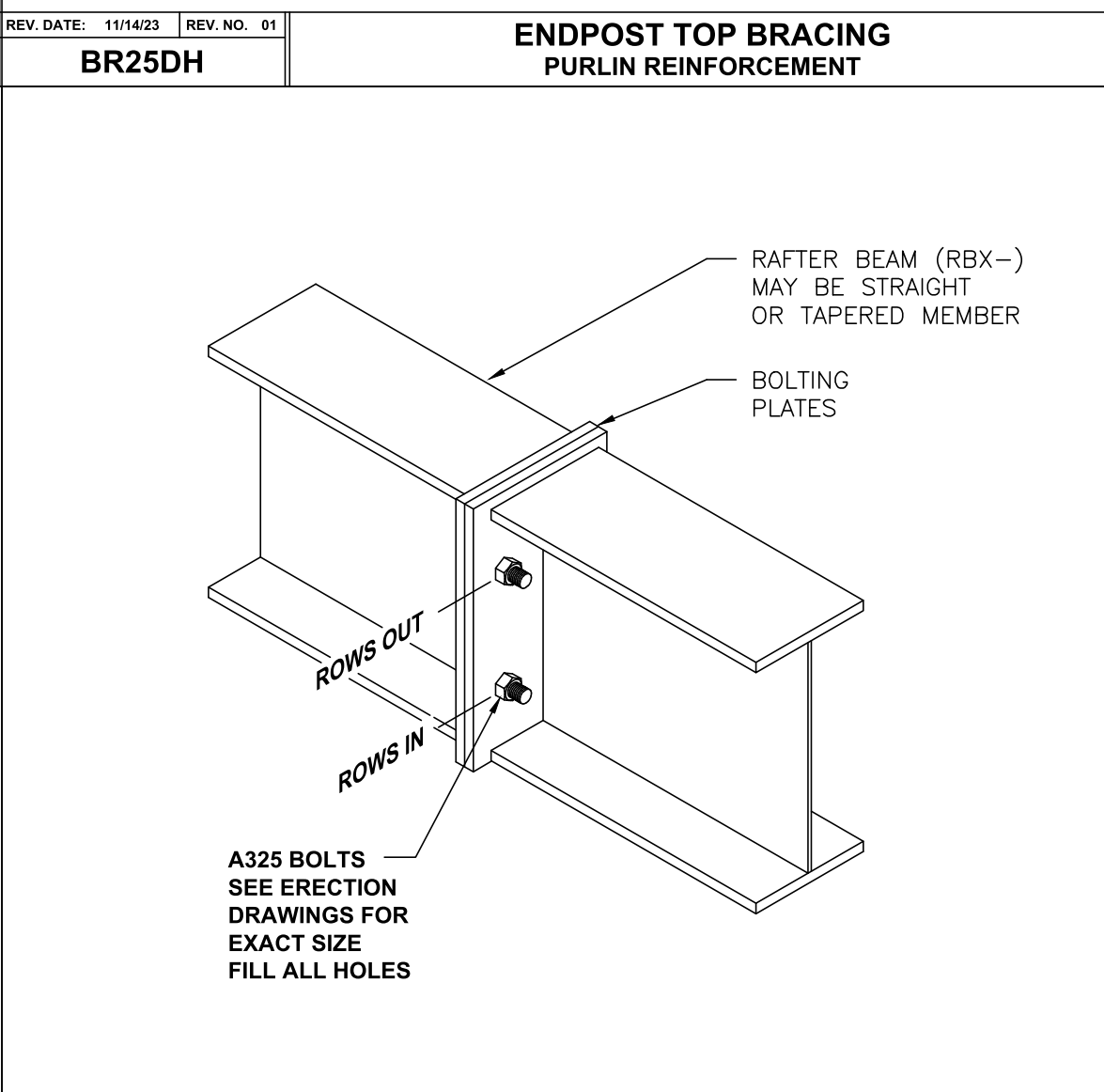
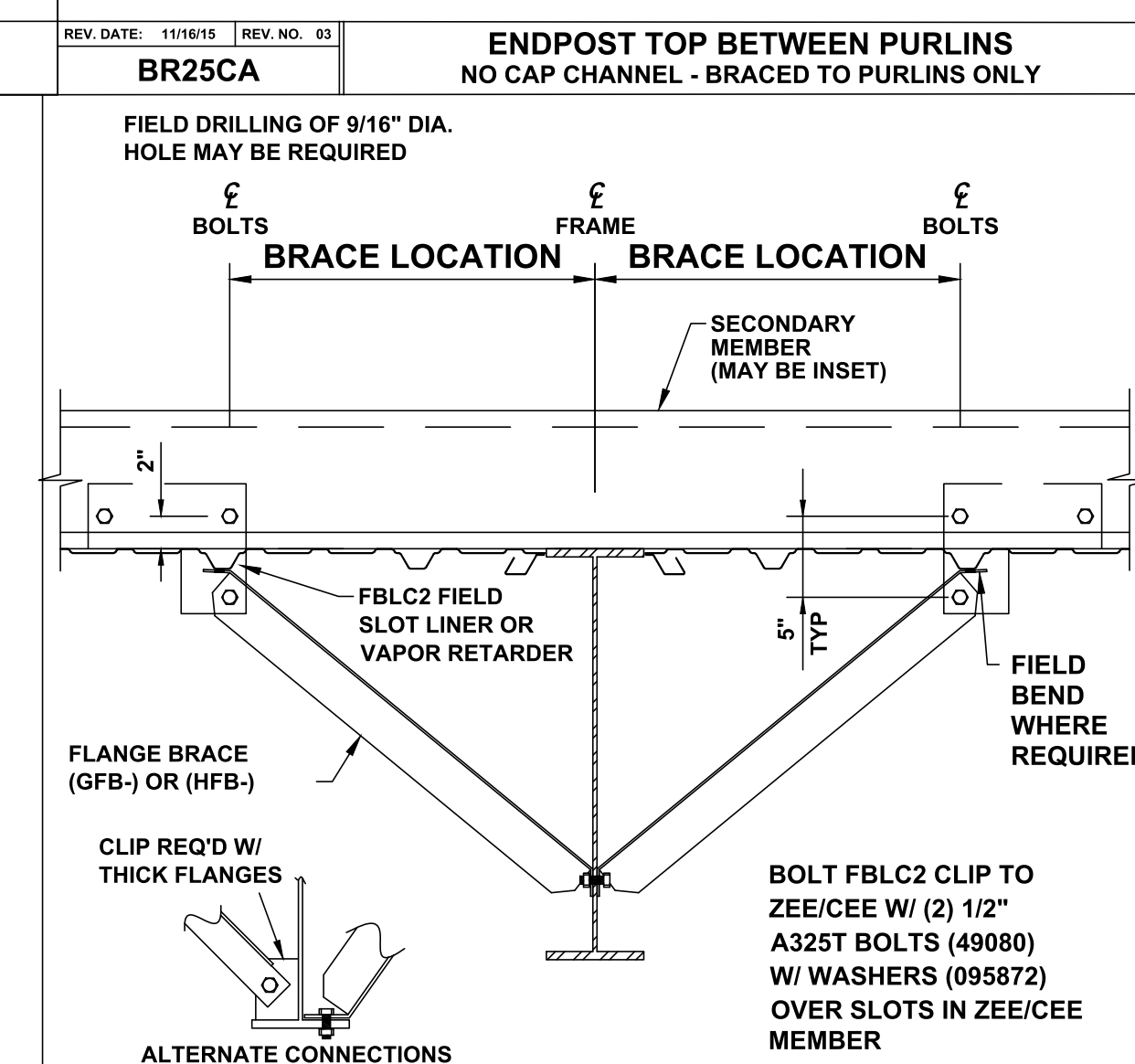
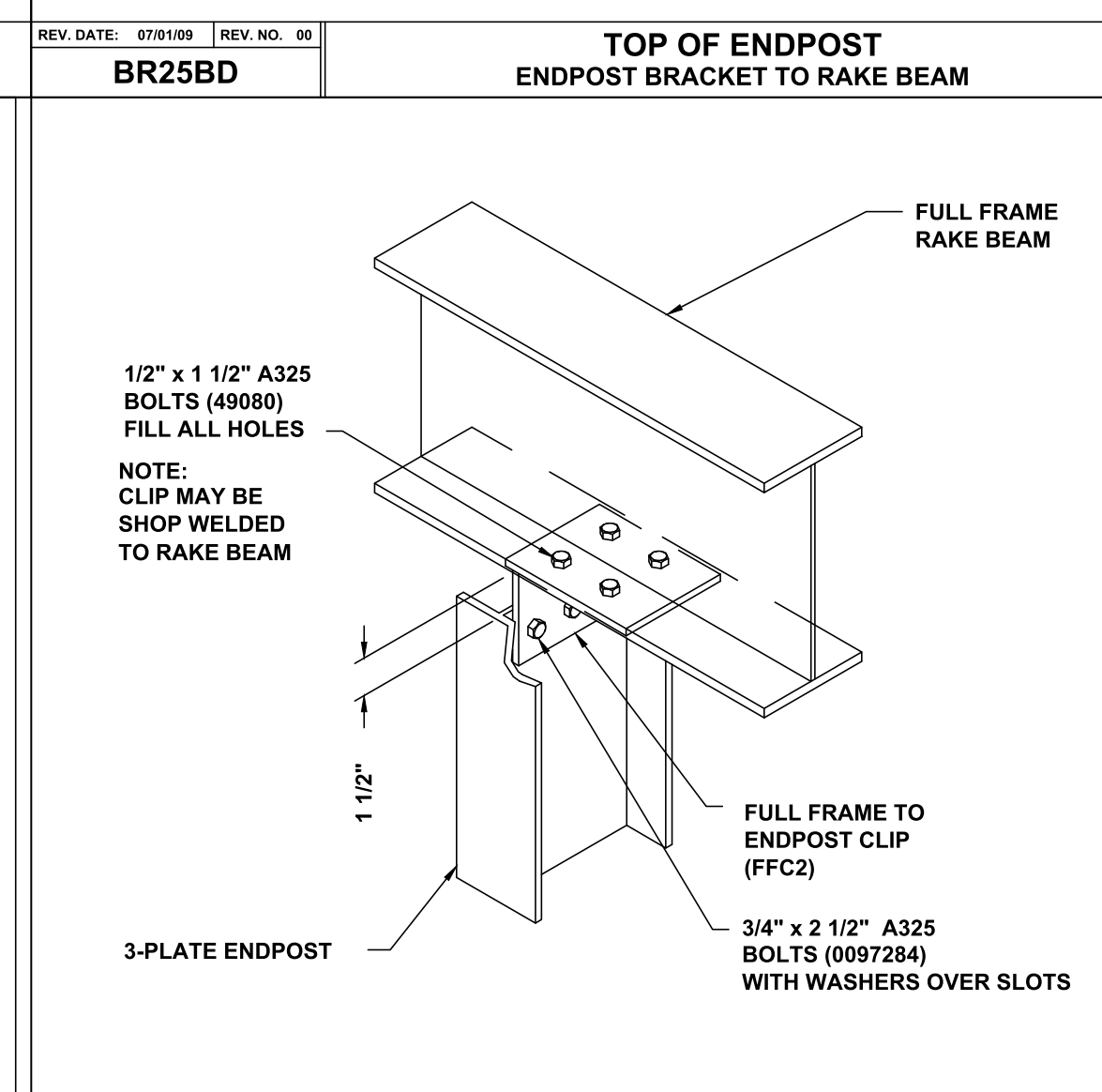
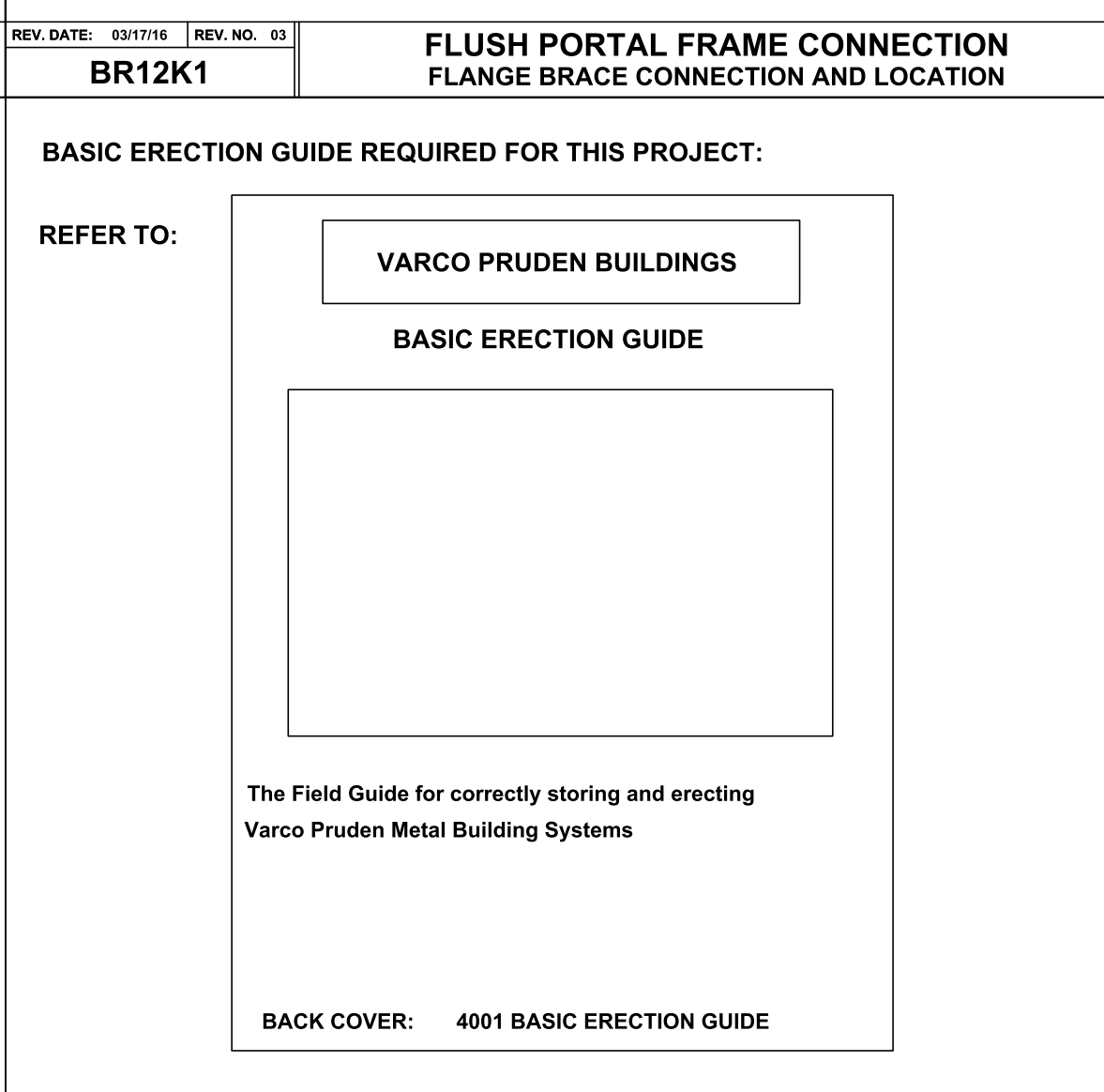
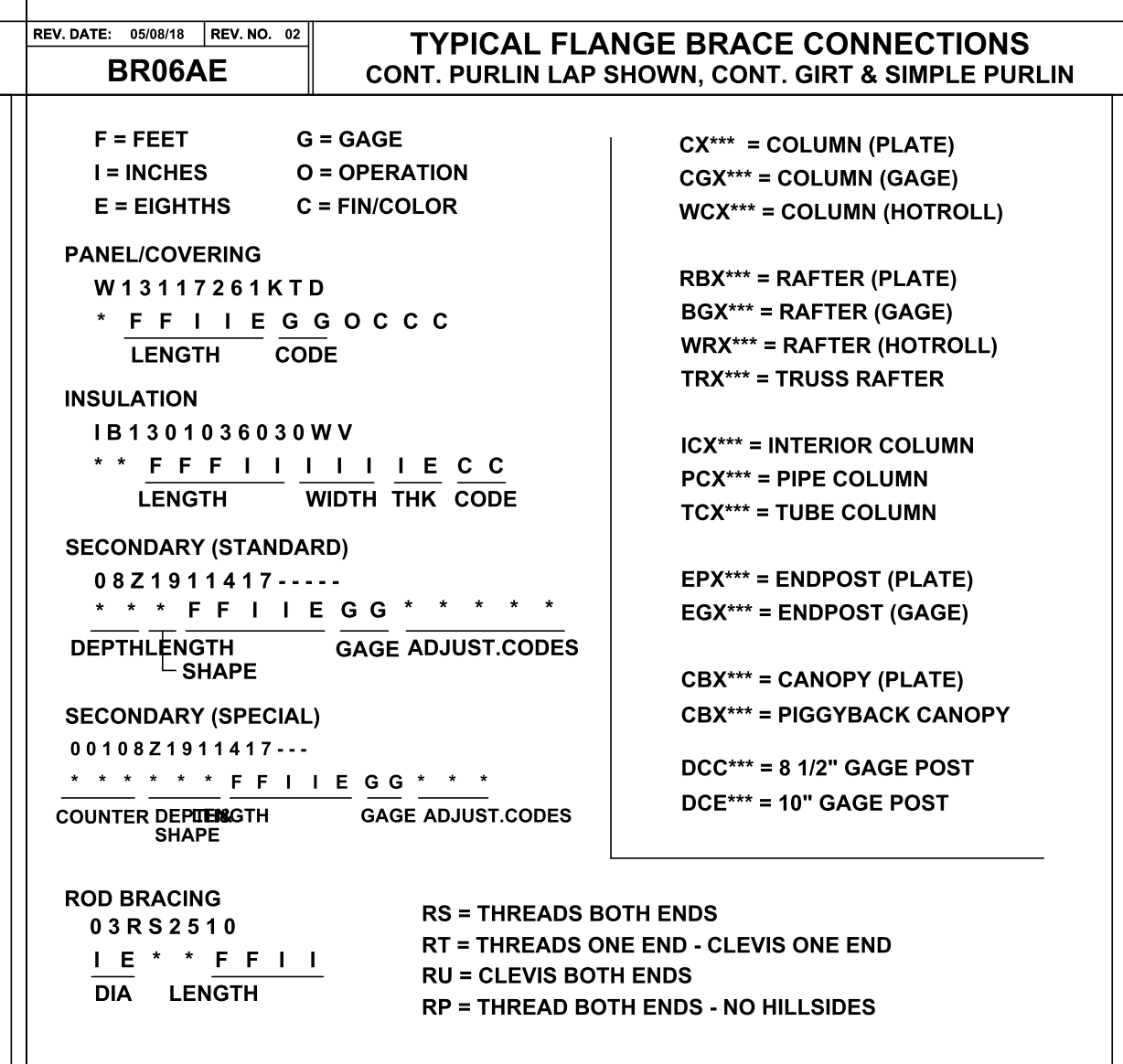
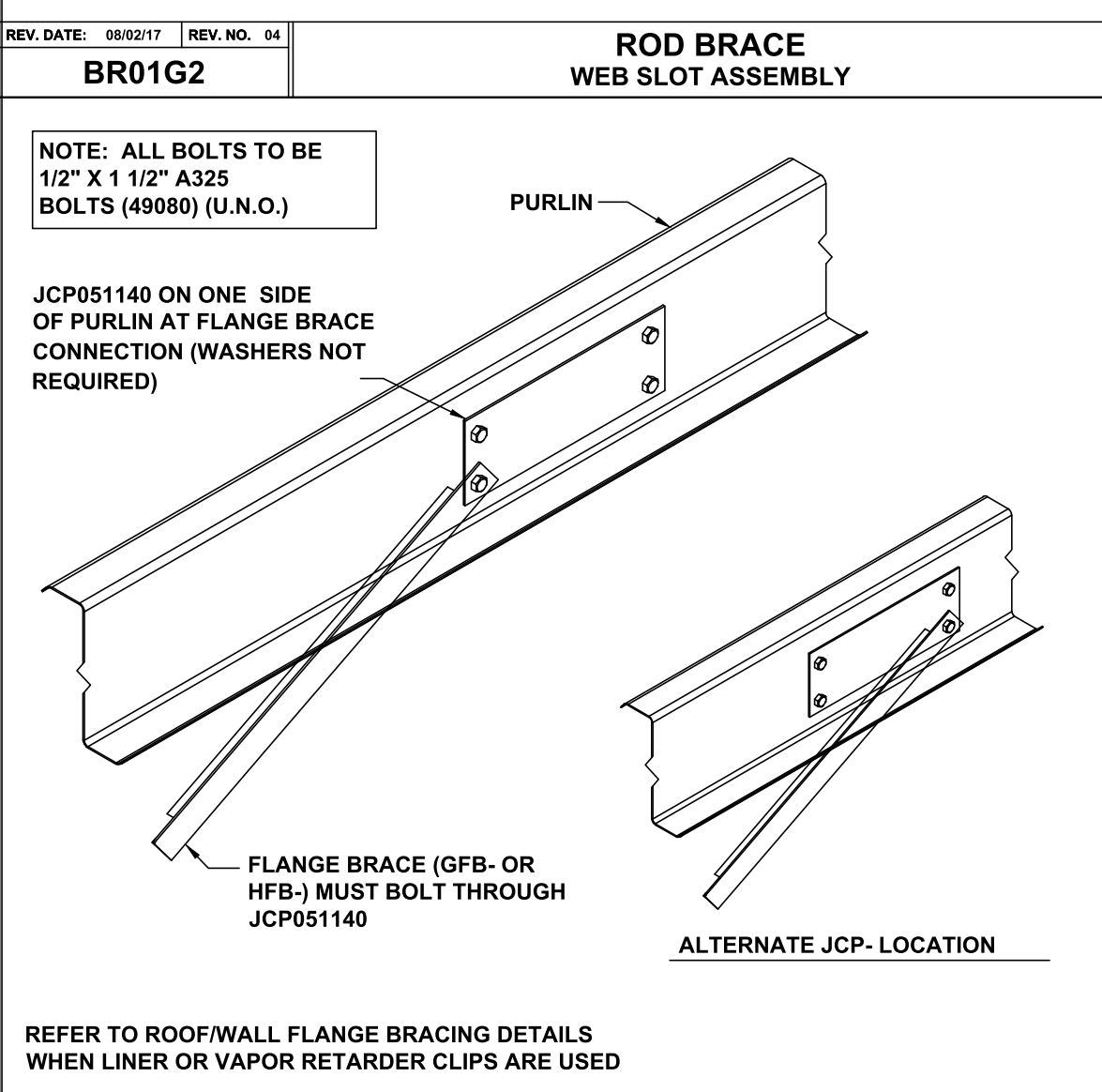
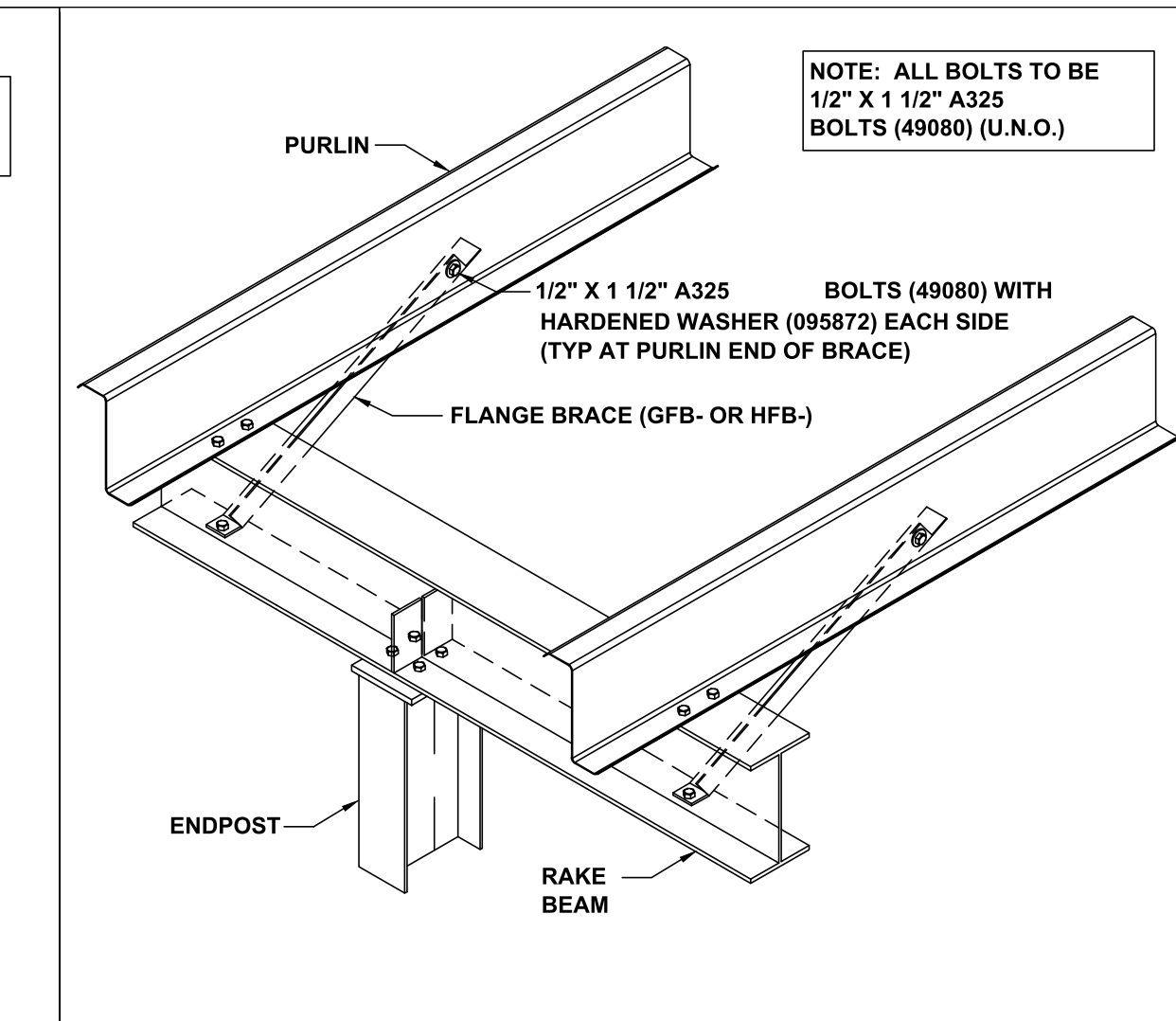
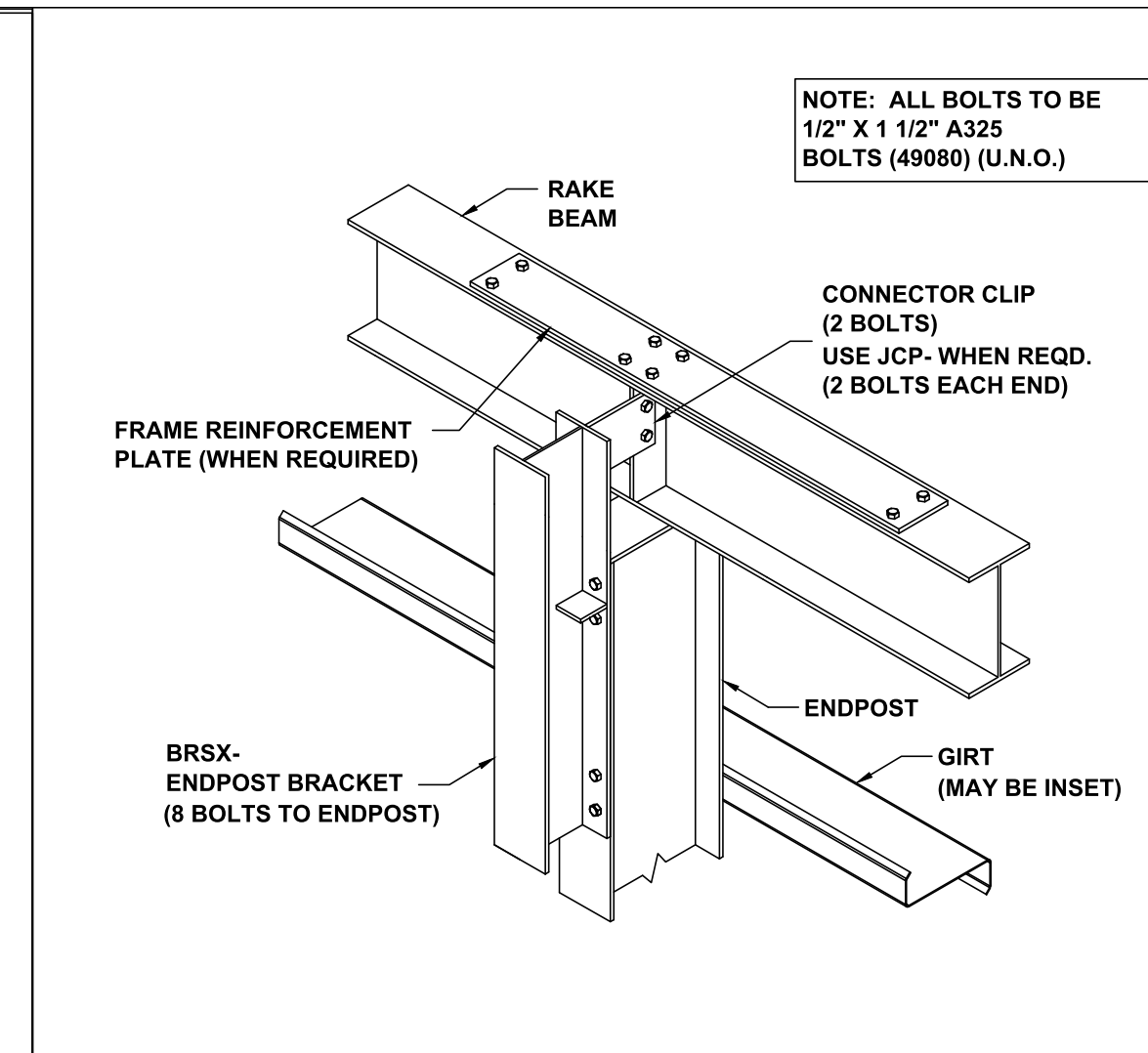
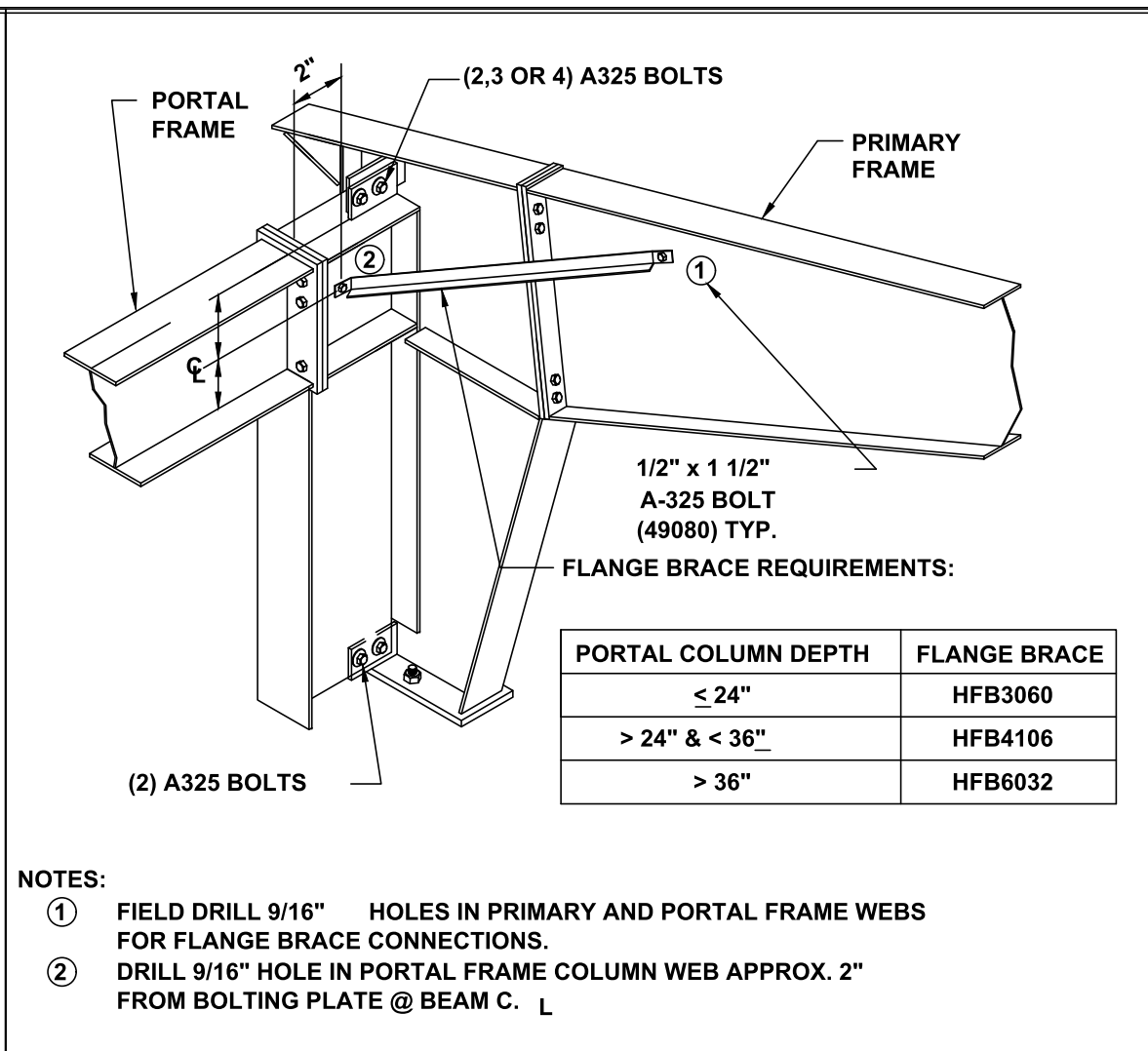
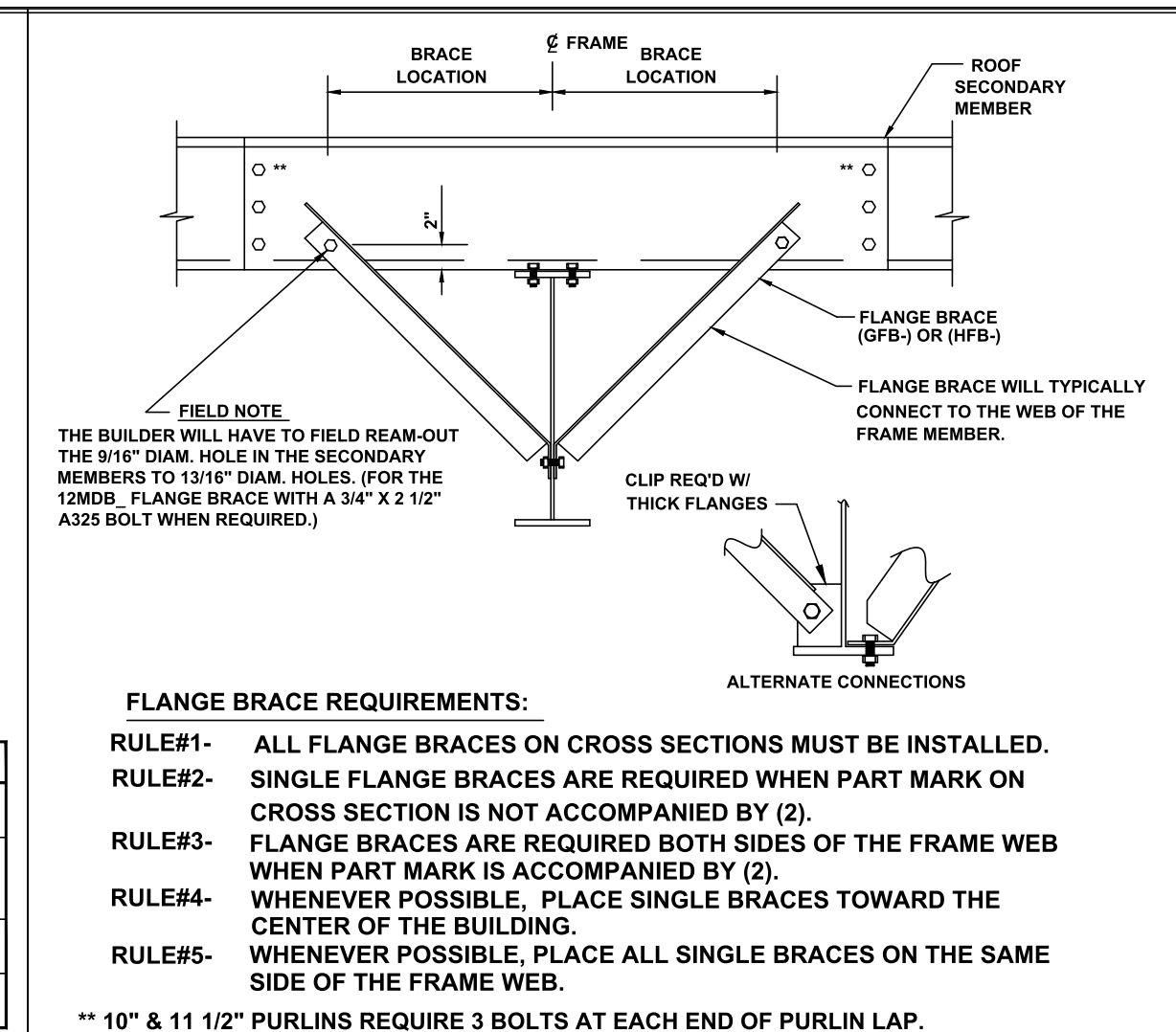
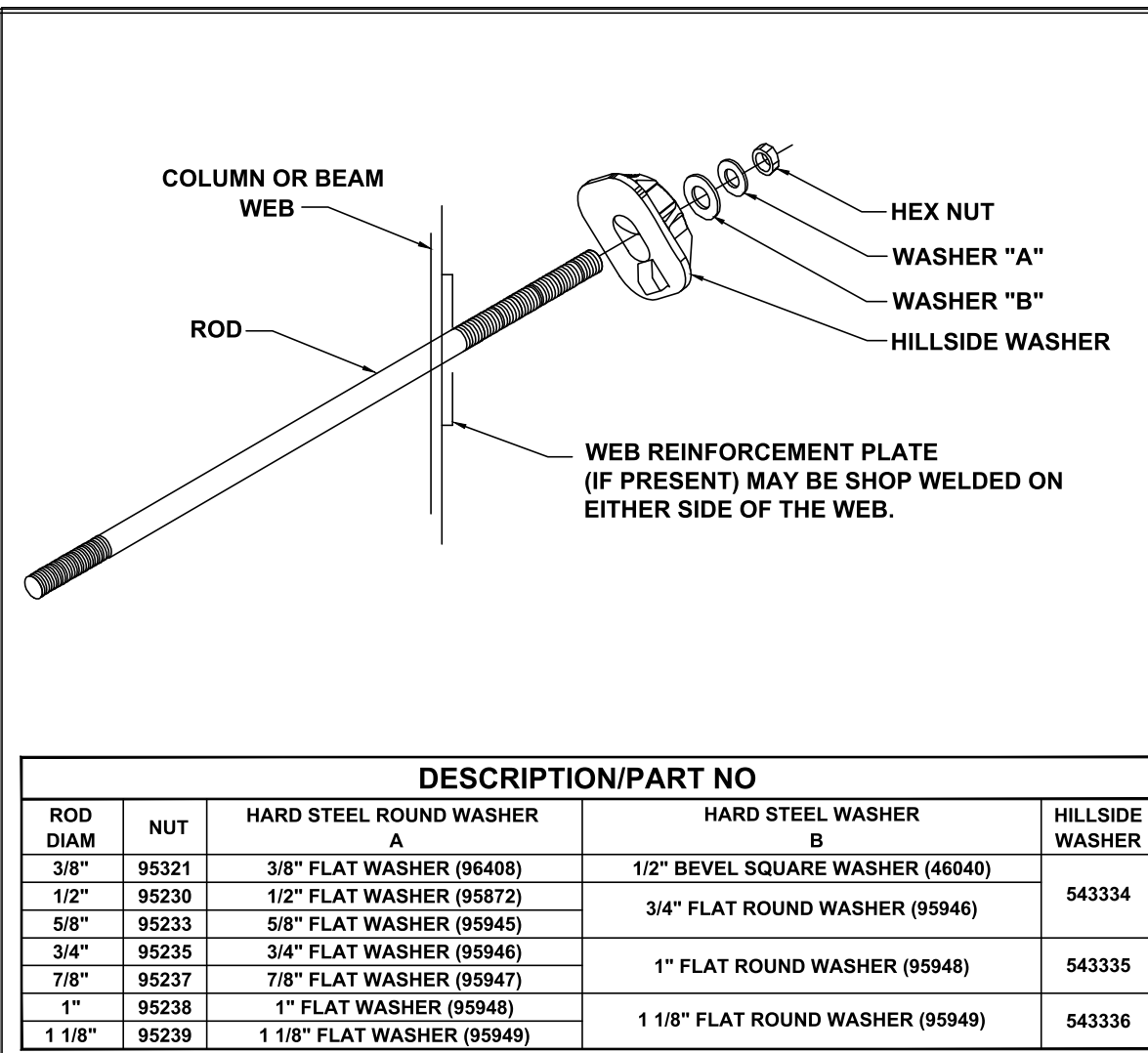


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			<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>04/09/24</td> <td>sy</td> <td>revised framed opening detail bolt distance</td> </tr> <tr> <td colspan="4" style="text-align: center;">NTS</td> </tr> </tbody> </table>	REV	DATE	BY	DESCRIPTION	01	04/09/24	sy	revised framed opening detail bolt distance	NTS				<table border="1"> <tr> <td>BUILDER</td> <td>Lemartec Corporation</td> </tr> <tr> <td>CUSTOMER</td> <td>Duke Energy</td> </tr> <tr> <td>LOCATION</td> <td>Dunn, North Carolina</td> </tr> <tr> <td>PROJECT</td> <td>Duke Energy Dunn Operations Center</td> </tr> <tr> <td>BUILDERS PO#</td> <td>23068 - Ops</td> </tr> </table>	BUILDER	Lemartec Corporation	CUSTOMER	Duke Energy	LOCATION	Dunn, North Carolina	PROJECT
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BUILDER	Lemartec Corporation																						
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FOR CONSTRUCTION

D VP Buildings
3200 Players Club Circle Memphis TN 38125

REV	DATE	BY	DESCRIPTION

NTS

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PRIMARY BRACING SED'S

BUILDER	Lemartec Corporation
CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center
BUILDERS PO#	23068 - Ops

FILENAME: Duke Energy - Ops

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ALAN M. JUNGNITSCH
ENGINEER
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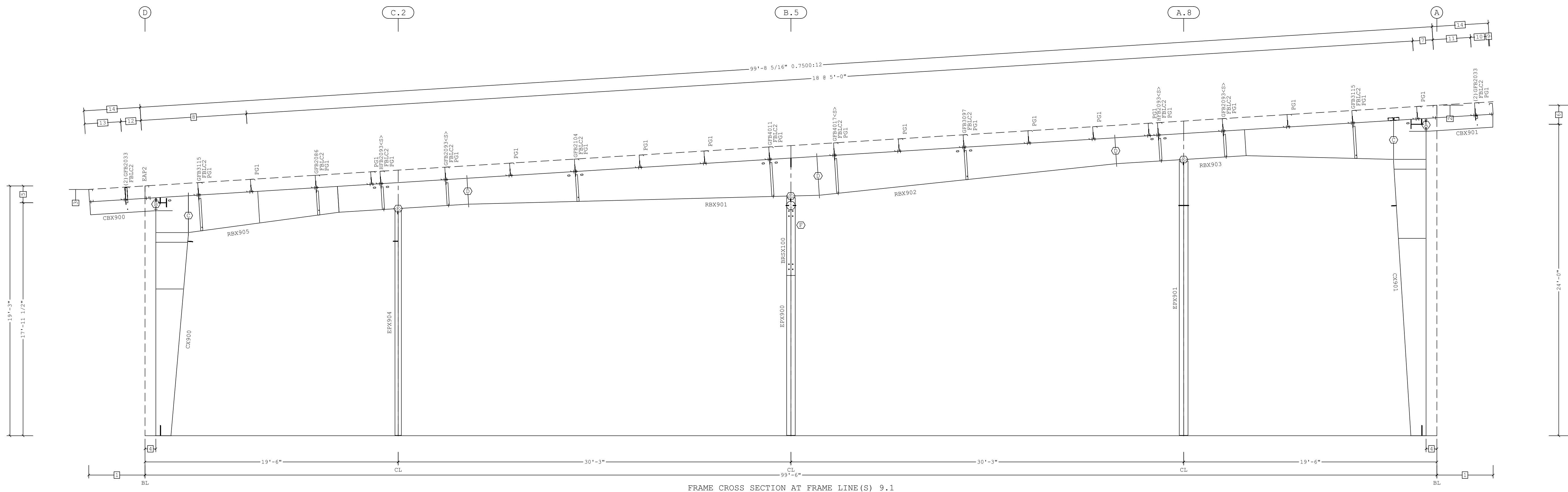
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NORTH CAROLINA REGISTERED ENGINEERING
FIRM F-0998

A BlueScope Steel Company
VPC VERSION: 24.1.0
a division of BlueScope Buildings North America, Inc.

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Detail	Cee Mark No
CBX900	10001	5.0000	.2500	.1345	1'-0"	1'-0"	5'-2 9/16"	76#		
CBX901	10002	5.0000	.2500	.1345	1'-0"	1'-0"	5'-1 1/8"	79#		
CX900	1	8.0000	.3750	.1644	1'-2"	2'-5 1/2"	18'-5 15/16"	736#		
RBX905	3	6.0000	.3750	.1875	2'-10"	2'-0"	21'-8 1/16"	734#		
RBX901	5	6.0000	.3750	.1875	2'-0"	3'-0"	27'-0"	982#	BR25CA	
RBX902	6	6.0000	.3750	.1875	2'-0"	2'-0"	23'-0"	839#	BR25BD	JCP053083
RBX903	7	6.0000	.3750	.1875	2'-0"	2'-0"	21'-6 1/16"	799#	BR25CA	
CX901	9	10.0000	.5000	.2500	2'-5 5/8"	2'-6"	24'-5 7/16"	1289#		
EPX904	11	6.0000	.3125	.1345	1'-2"	1'-2"	17'-4 9/16"	344#		
EPX900	12	8.0000	.2500	.1345	1'-2"	1'-2"	18'-4 3/16"	384#		
EPX901	13	8.0000	.2500	.1345	1'-2"	1'-2"	21'-1 15/16"	439#		
BRXS100		5.0000	.1875	.1345	0'-6 5/8"	0'-6 5/8"	6'-0"			

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	4	A325	1/2"	1 1/2"	1/4"	1	1	49080		
B	6	A325	1/2"	1 1/2"	1/4"	2	1	49080		
C	16	A325	3/4"	2 1/2"	1/2"	4	4	0097284		
D	12	A325	3/4"	2 1/2"	1/2"	3	3	0097284		
E	2	A325	3/4"	2 1/2"	-	-	-	0097284		
F	8	A325	1/2"	1 1/2"	3/16"	2	2	49080		

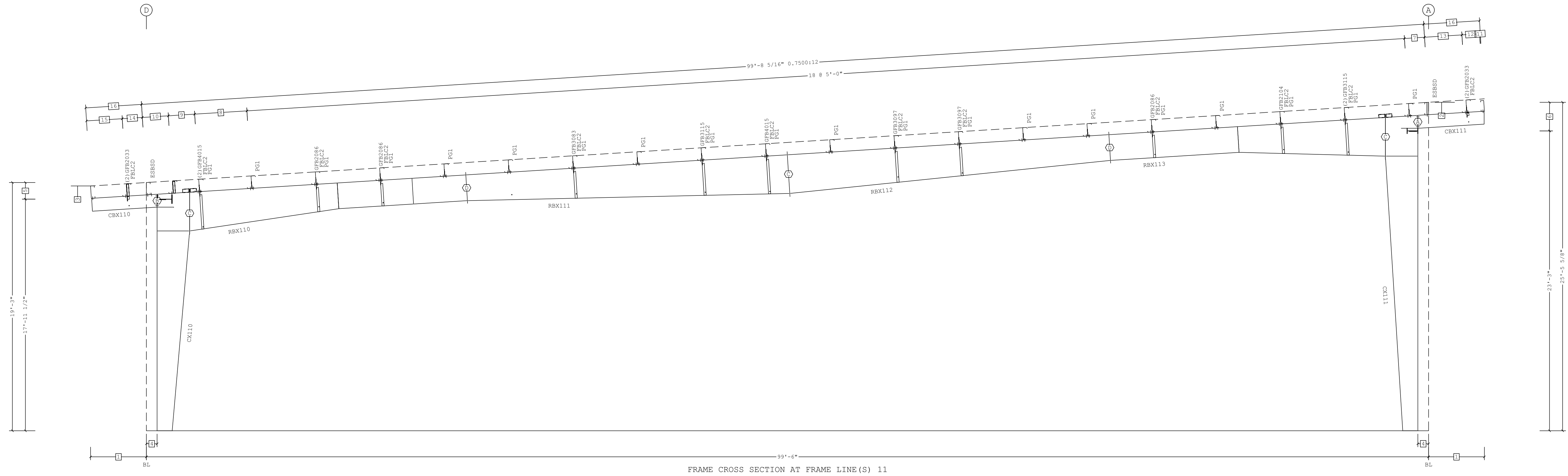
Frame Clearances
 Horiz. Clearance between members 1(CX900) and 9(CX901): 92'-10 1/2"
 Horiz. Clearance between members 1(CX900) and 10(CX901): 92'-10 7/8"
 Horiz. Clearance between members 2(CX900) and 9(CX901): 92'-10"
 Horiz. Clearance between members 2(CX900) and 10(CX901): 92'-10 3/8"
 Vert. Clearance at member 2(CX900): 15'-5 5/16"
 Vert. Clearance at member 9(CX901): 21'-1"
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX111	10001	5.0000	.2500	.1345	1'-0"	1'-0"	5'-2 9/16"	79#
CBX110	10002	5.0000	.2500	.1345	1'-0"	1'-0"	5'-1 1/8"	81#
CX110	1	8.0000	.3750	.3125	1'-2"	2'-6"	18'-5 15/16"	920#
RBX110	2	6.0000	.3750	.2500	3'-0"	2'-0"	21'-7 15/16"	825#
	3	6.0000	.3750	.1644	2'-0"	2'-0"		
RBX111	4	6.0000	.5000	.1875	2'-0"	3'-0"	25'-0"	1039#
RBX112	5	6.0000	.5000	.1875	3'-0"	2'-0"	25'-0"	1039#
RBX113	6	6.0000	.3125	.1875	2'-0"	2'-0"	21'-6 1/16"	859#
	7	6.0000	.5000	.2500	2'-0"	3'-0"		
CX111	8	10.0000	.5000	.1875	1'-2"	2'-6"	24'-5 7/16"	1310#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	4	A325	1/2"	2"	3/8"	1	1	0097280		
B	4	A325	1/2"	1 1/2"	3/8"	1	1	49080		
C	16	A325	1"	3 1/2"	5/8"	4	4	0097288		
D	16	A325	3/4"	2 1/2"	1/2"	4	4	0097284		

Frame Clearances
 Horiz. Clearance between members 1(CX110 and 8(CX111): 92'-10"
 Vert. Clearance at member 1(CX110): 15'-2 13/16"
 Vert. Clearance at member 8(CX111): 21'-0 9/16"
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



- 16 4'-4 1/8" 0.7500:12
- 15 2'-9 3/8"
- 14 1'-6 11/16"
- 13 2'-10 7/8"
- 12 1'-4 1/2"
- 11 11/16"
- 10 2'-0 5/16"
- 9 2'-0 1/2"
- 8 4'-0 13/16"
- 7 1'-6 3/4"
- 6 2'-2 5/8"
- 5 1'-3 1/2"
- 4 10"
- 3 18'-11 3/4"
- 2 25'-5 5/8"
- 1 4'-4"

Dimension Key

Shape Name = OPERATIONS Wall 4, Frame 3



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07/29/2024
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

FOR CONSTRUCTION

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.
 2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.

THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.

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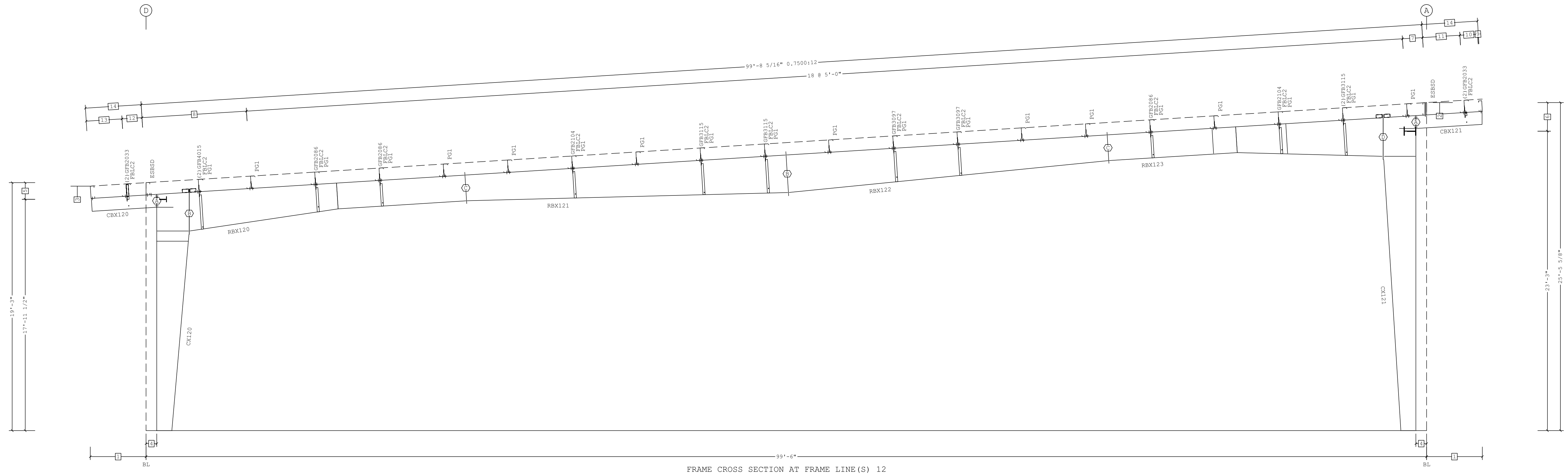
VP Buildings			
REV	DATE	BY	DESCRIPTION
3200 Players Club Circle Memphis TN 38125			
			NTS

FRAME CROSS SECTION AT FRAME LINE(S) 11			
BUILDER	Lemartec Corporation	JOBNO	23-016001-01
CUSTOMER	Duke Energy	DATE	4/29/2024
LOCATION	Dunn, North Carolina	DRAWN/CHECK	AMD CLS
PROJECT	Duke Energy Dunn Operations Center	PAGE	10
BUILDERS POC	23068 - Ops	VP BUILDINGS VARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.0	

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CBX121	10001	5.0000	.2500	.1345	1'-0"	1'-0"	5'-2 9/16"	76#
CBX120	10002	5.0000	.2500	.1345	1'-0"	1'-0"	5'-1 1/8"	79#
CX120	1	8.0000	.3750	.1875	1'-2"	2'-5 1/2"	18'-5 15/16"	763#
	2	8.0000	.3750	.2500	2'-5 1/2"	2'-6"		
RBX120	3	6.0000	.3750	.2500	3'-0"	2'-0"	21'-7 13/16"	883#
	4	6.0000	.3750	.2500	2'-0"	2'-0"		
RBX121	5	6.0000	.3750	.1875	2'-0"	2'-11"	25'-0"	907#
RBX122	6	6.0000	.3750	.1875	2'-0"	2'-0"	25'-0"	907#
RBX123	7	6.0000	.5000	.1644	2'-0"	2'-0"	21'-5 13/16"	987#
	8	6.0000	.3750	.3125	2'-0"	3'-0"		
CX121	9	10.0000	.5000	.1875	1'-2"	3'-6"	24'-5 7/16"	1353#

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	6	A325	1/2"	1 1/2"	1/4"	2	1	49080		
B	16	A325	1"	3 1/2"	5/8"	4	4	0097288		
C	16	A325	3/4"	2 1/2"	1/2"	4	4	0097284		
D	16	A325	1"	3 1/2"	1"	4	4	0097288		

Frame Clearances
 Horiz. Clearance between members 1 (CX120) and 9 (CX121): 92'-10 1/2"
 Horiz. Clearance between members 2 (CX120) and 9 (CX121): 92'-10"
 Vert. Clearance at member 2 (CX120): 15'-2 3/4"
 Vert. Clearance at member 9 (CX121): 21'-0 9/16"
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S) 12

- 14 4'-4 1/8" 0.7500:12
- 13 2'-9 3/8"
- 12 1'-6 11/16"
- 11 2'-10 7/8"
- 10 1'-4 1/2"
- 9 3/4"
- 8 2 @ 4'-0 13/16"
- 7 1'-6 3/4"
- 6 2'-2 5/8"
- 5 1'-3 1/2"
- 4 10"
- 3 18'-11 3/4"
- 2 25'-5 5/8"
- 1 4'-4"

Dimension Key

Shape Name = OPERATIONS Wall 4, Frame 4



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 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

FOR CONSTRUCTION

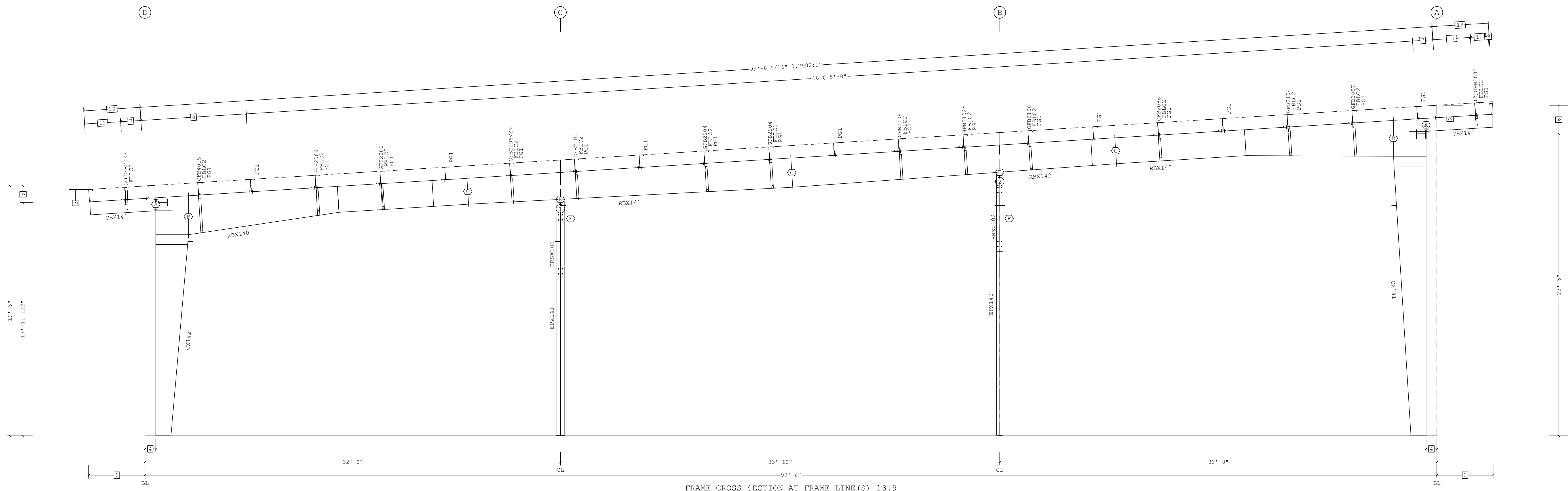
1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE. 2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.	THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.	THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF VP BUILDINGS. THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.	D	VP Buildings 3200 Players Club Circle Memphis TN 38125	FRAME CROSS SECTION AT FRAME LINE(S) 12
			REV DATE BY DESCRIPTION	BUILDER Lemartec Corporation CUSTOMER Duke Energy LOCATION Dunn, North Carolina PROJECT Duke Energy Dunn Operations Center BUILDERS PO# 23068 - Ops	JOBNO 23-016001-01 DATE 4/29/2024 DRAWN/CHECK AMD CLS PAGE 11

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Detail	Cee Mark No
CBX141	10001	5.0000	.2500	.1345	1'-0"	1'-0"	5'-2 9/16"	76#		
CBX140	10002	5.0000	.2500	.1345	1'-0"	1'-0"	5'-1 1/8"	79#		
CX142	1	8.0000	.3750	.1644	1'-2"	2'-5 1/2"	18'-5 15/16"	722#		
	2	8.0000	.3750	.2500	2'-5 1/2"	2'-6"				
RBX140	3	6.0000	.3125	.1875	3'-0"	2'-0"	21'-8 3/16"	664#		
	4	6.0000	.3125	.1345	2'-0"	2'-0"				
RBX141	5	6.0000	.3125	.1644	2'-0"	2'-3"	25'-0"	724#		
RBX142	6	6.0000	.3750	.1345	2'-3"	2'-0"	25'-0"	726#		BR25BD JCP053083
RBX143	7	6.0000	.3750	.1644	2'-0"	2'-0"	21'-5 13/16"	779#		
	8	6.0000	.5000	.1875	2'-0"	2'-9 1/16"				
CX141	9	10.0000	.3750	.2500	2'-5 5/8"	2'-6"	24'-5 1/2"	1109#		
	10	10.0000	.3750	.1875	1'-2"	2'-5 5/8"				
EPX101	11	8.0000	.2500	.1345	1'-2"	1'-2"	18'-1 1/16"	380#		BR25BD JCP053083
EPX102	12	6.0000	.5000	.1345	1'-2"	1'-2"	20'-2 1/4"	552#		
BRX101	5.0000	.1875	.1345	0'-6 5/8"	0'-6 5/8"	6'-0"				
BRX102	5.0000	.1875	.1345	0'-6 5/8"	0'-6 5/8"	6'-0"				

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo	Rows	
									Out	In
A	4	A325	1/2"	1 1/2"	1/4"	1	1	49080		
B	16	A325	3/4"	2 1/2"	1/2"	4	4	0097284		
C	12	A325	3/4"	2 1/2"	1/2"	3	3	0097284		
D	16	A325	3/4"	2 1/2"	5/8"	4	4	0097284		
E	2	A325	3/4"	2 1/2"	-	-	-	0097284		
F	8	A325	1/2"	1 1/2"	3/16"	2	2	49080		

<S> - (2) Washers (095872) req'd at Flange Brace to Secondary.

Frame Clearances
 Horiz. Clearance between members 1 (CX142) and 9 (CX141): 92'-10 1/2"
 Horiz. Clearance between members 1 (CX142) and 10 (CX141): 92'-10 7/8"
 Horiz. Clearance between members 2 (CX142) and 9 (CX141): 92'-10"
 Horiz. Clearance between members 2 (CX142) and 10 (CX141): 92'-10 3/8"
 Vert. Clearance at member 2 (CX142): 15'-3 1/4"
 Vert. Clearance at member 9 (CX141): 21'-4"
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S) 13.9

GPB or HFB with * must use bearing plate JCP051140 (see Detail BR25DH)

- 13 4'-4 1/8" 0.7500:12
- 12 2'-9 3/8"
- 11 2'-10 7/8"
- 10 1'-4 1/2"
- 9 11/16"
- 8 2 @ 4'-0 13/16"
- 7 1'-6 3/4"
- 6 2'-2 5/8"
- 5 1'-3 1/2"
- 4 10"
- 3 18'-11 3/4"
- 2 25'-5 5/8"
- 1 4'-4"

□ Dimension Key

2 (1) JCP053083

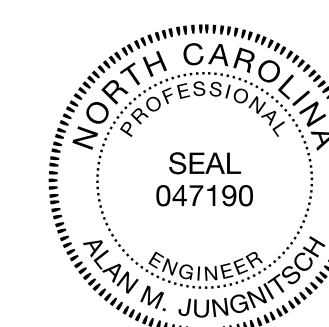
1 (1) JCP053083

○ Part Key

Shape Name = OPERATIONS Wall 4, Frame 6



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07/29/2024
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.
 NORTH CAROLINA REGISTERED ENGINEERING
 FIRM F-0998

FOR CONSTRUCTION

MODIFIED IN AUTOCAD

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.
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VP Buildings				FRAME CROSS SECTION AT FRAME LINE(S) 13.9	
REV	DATE	BY	DESCRIPTION	BUILDER	LEMA RT EC CORPORATION
				CUSTOMER	DUKE ENERGY
				LOCATION	DUNN, NORTH CAROLINA
				PROJECT	DUKE ENERGY DUNN OPERATIONS CENTER
				BUILDERS FOR	23068 - Ops
NTS					

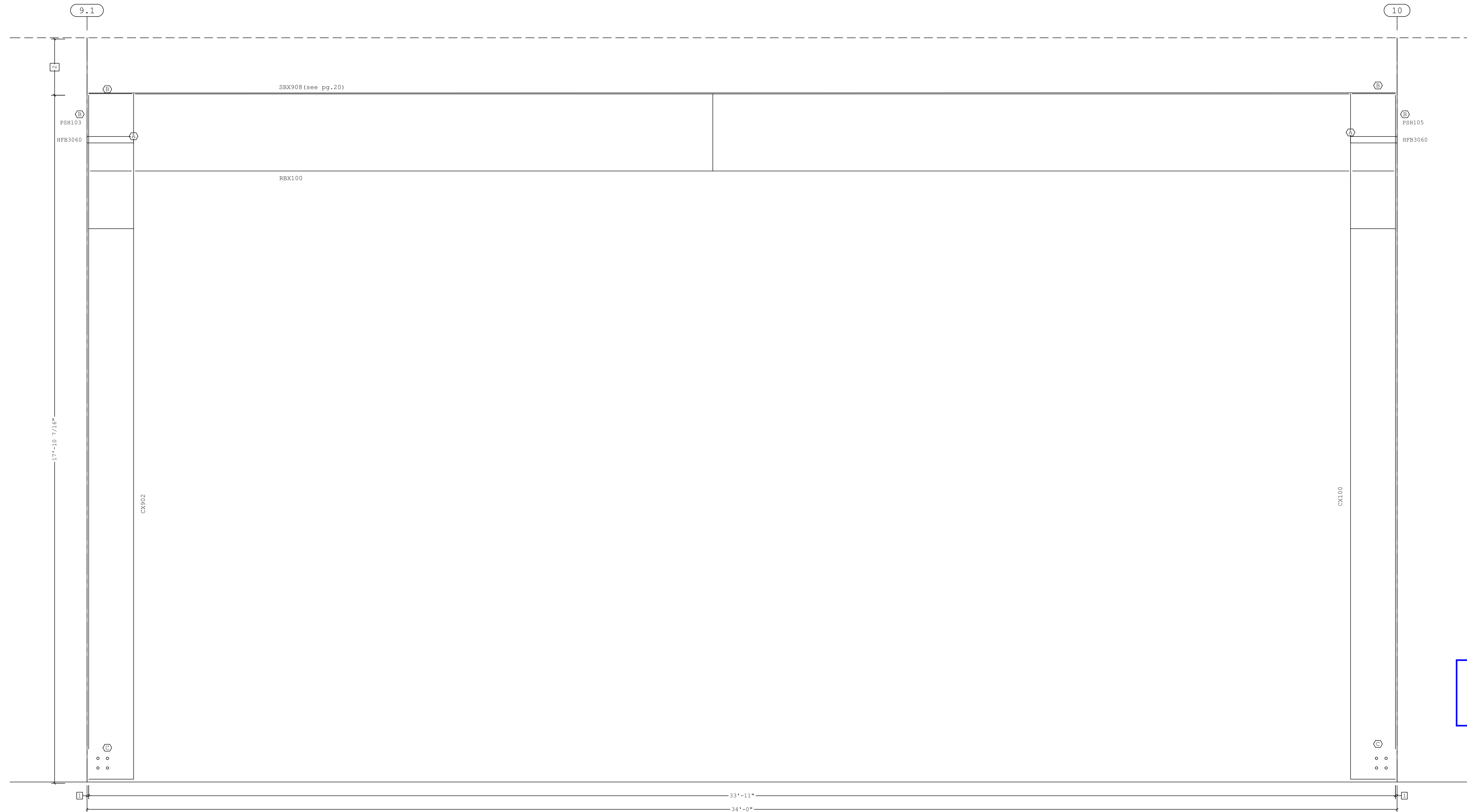
VP BUILDINGS
 VARCO PRUDEN
 A BlueScope Steel Company
 VPC VERSION: 24.1.0

JOBNO 23-016001-01
 DATE 4/29/2024
 DRAWN/CHECK AMD
 CLS
 PAGE 13

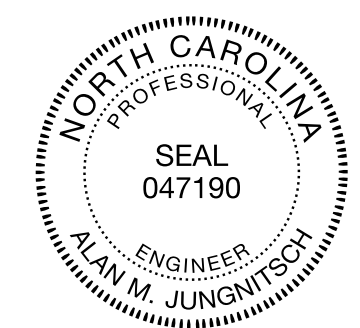
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX902	1	9.0000	.5000	.1644	1'-2"	1'-2"	17'-9 5/8"	701#
	2	9.0000	.5000	.2500	1'-2"	1'-2"		
RBX100	3-4	9.0000	.3750	.1644	2'-0"	2'-0"	31'-7"	1201#
CX100	5	9.0000	.5000	.2500	1'-2"	1'-2"	17'-9 5/8"	701#
	6	9.0000	.5000	.1644	1'-2"	1'-2"		

Bolt Connection & Plate Schedule										
Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo		
A	14	A325	3/4"	2 1/2"	1/2"	4	3	0097284		
B	4	A325	1/2"	2 "				0097280		
C	4	A325	3/4"	2 1/2"				0097284		

Frame Clearances
 Horiz. Clearance between members 1(CX902) and 5(CX100): 31'-7"
 Horiz. Clearance between members 1(CX902) and 6(CX100): 31'-7"
 Horiz. Clearance between members 2(CX902) and 5(CX100): 31'-7"
 Horiz. Clearance between members 2(CX902) and 6(CX100): 31'-7"
 Vert. Clearance at member 2(CX902): 15'-8"
 Vert. Clearance at member 5(CX100): 15'-8"
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



PORTAL FRAME ELEVATION ALONG D



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 FIRM F-0998

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FOR CONSTRUCTION

2 1'-5 1/2"
 1 1'-1/2"
 Dimension Key

Shape Name = OPERATIONS Wall 4, Frame 1

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.
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REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS FOR	JOBNO	DATE	DRAWN/CHECK	CLS	PAGE
				Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center	23068 - Ops	23-016001-01	4/29/2024	AMD	CLS	15



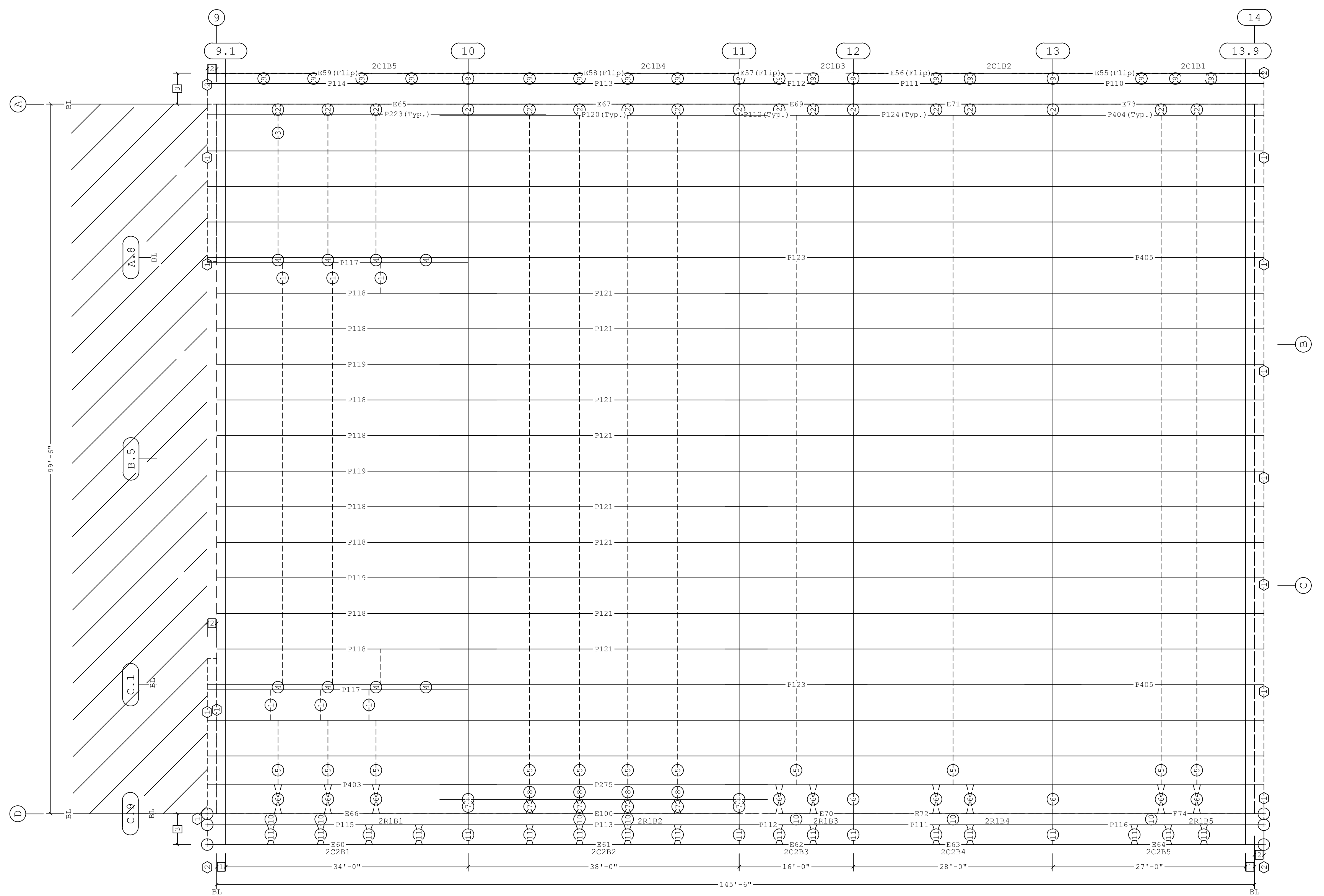
MODIFIED IN AUTOCAD

Mark	Part	Thick.	Depth	Lap	Detail
E100	11E3711411DDD01	0.1130	11 1/2"		RS12PA, RS12PE
E55	00110CS2906416B0	0.0680	10"		RSV004, RSV003, RSV002, RSV001
E56	10C2711416DDDB0	0.0680	10"		RSV004, RSV003, RSV002, RSV001
E57	10C1511416DDA0	0.0680	10"		RSV004, RSV003, RSV002, RSV001
E58	10C3711416DDDD0	0.0680	10"		RSV004, RSV003, RSV002, RSV001
E59	00210CS3606416D0	0.0680	10"		RSV004, RSV003, RSV002, RSV001
E60	00111CS3606416D0	0.0680	11 1/2"		RSV004, RSV003, RSV002, RSV001
E61	11C3711416DDDD0	0.0680	11 1/2"		RSV004, RSV003, RSV002, RSV001
E62	11C1511416DDA0	0.0680	11 1/2"		RSV004, RSV003, RSV002, RSV001
E63	11C2711416DDDB0	0.0680	11 1/2"		RSV004, RSV003, RSV002, RSV001
E64	00211CS2906411B01	0.0680	11 1/2"		RSV004, RSV003, RSV002, RSV001
E65	00111HS3606411D01	0.1130	11 1/2"		BR09W2, BR09Y2
E66	00111ES3606411D01	0.1130	11 1/2"		RS12PF, RS12PE
E67	11H3711411DDDD01	0.1130	11 1/2"		BR09W2, BR09Y2
E69	11H1511411DDA01	0.1130	11 1/2"		BR09W2, BR09Y2
E70	11E1511411DDA01	0.1130	11 1/2"		RS12PA
E71	11H2711411DDDB01	0.1130	11 1/2"		BR09W2, BR09Y2
E72	11E2711411DDDB01	0.1130	11 1/2"		RS12PA
E73	00211HS2906411B01	0.1130	11 1/2"		BR09W2, BR09Y2
E74	00211ES2906411B01	0.1130	11 1/2"		RS12PH, RS12PA
P110	00111ZS3106416B0	0.0680	11 1/2"	1'-10 1/2"	RS01U1
P111	11Z311141633B0	0.0680	11 1/2"	1'-10 1/2"	RS01U1, RS01T1
P112	11Z191141633A0	0.0680	11 1/2"	1'-10 1/2"	RS01U1
P113	11Z411141633D0	0.0680	11 1/2"	1'-10 1/2"	RS01U1
P114	00211ZS3806416D0	0.0680	11 1/2"	1'-10 1/2"	RS01U1
P115	00311ZS3806416D0	0.0680	11 1/2"	1'-10 1/2"	RS01U1, RS01T1
P116	00411ZS3106416B0	0.0680	11 1/2"	1'-10 1/2"	RS01U1, RS01T1
P117	00511ZS3806411D0	0.1130	11 1/2"		RS02T1, BR18E2, RS01U1
P118	11Z3902413V5D0	0.0880	11 1/2"	3'-10 1/2"	RS02T1, RS01U1
P119	11Z3902411V5D0	0.1130	11 1/2"	3'-10 1/2"	RS02T1, RS01U1
P120	11Z45114155D0	0.1130	11 1/2"	3'-10 1/2"	RS01U1
P121	11Z451141355D0	0.0880	11 1/2"	3'-10 1/2"	RS01U1
P123	11Z391141533A0	0.0730	11 1/2"	1'-10 1/2"	RS01U1
P124	11Z351141655B0	0.0680	11 1/2"	3'-10 1/2"	RS01U1
P223	00611ZS4006411D0	0.1130	11 1/2"	3'-10 1/2"	RS02T1, RS01U1
P275	11Z451141555D0	0.0730	11 1/2"	3'-10 1/2"	RS01U1
P403	00711ZS4006415D0	0.0730	11 1/2"	3'-10 1/2"	RS02T1, RS01U1
P404	00811ZS3306416B0	0.0680	11 1/2"	3'-10 1/2"	RS02T1, RS01U1
P405	00911ZS3306415B0	0.0730	11 1/2"	3'-10 1/2"	RS02T1, RS01U1

Secondary Bracing Schedule

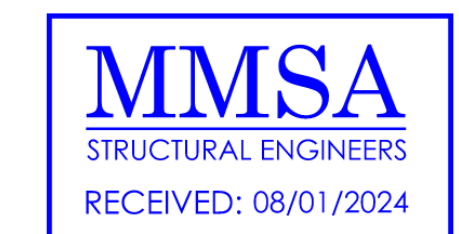
Id	Qty	Mark No	Spacing
1	6	CB8040414	4'-3 3/8"
2	30	PBA0110	1'-6 3/4"
3	182	CFBB050108 (Typ.)	5'-0"
4	8	CFBB001002	8 5/8"
5	11	CFBB040206	4'-0 13/16"
6	20	PBA0404	4'-0 13/16"
7	10	PBA0204	2'-0 5/16"
8	4	CFBB020200	2'-0 1/2"
9	34	PBA0108	1'-4 1/2"
10	7	CFBRA011104	1'-6 3/4"
11	34	PBA0301	2'-9 3/8"

See SD01
BR09JR, BR09JG, BR18E2, BR09RY, BR09RZ
BR09K5, BR09JH, BR09K2, BR09JK

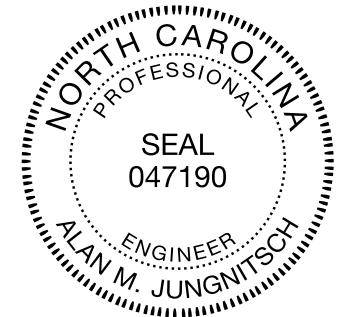


- Part Mark Key
- 1 RKCH15
 - 2 RKC15
 - (+) SSR Fixed Clip Location
- Dimension Key
- 3 4'-4"
 - 2 1'-4"
 - 1 1'-3"

ROOF SECONDARY PLAN



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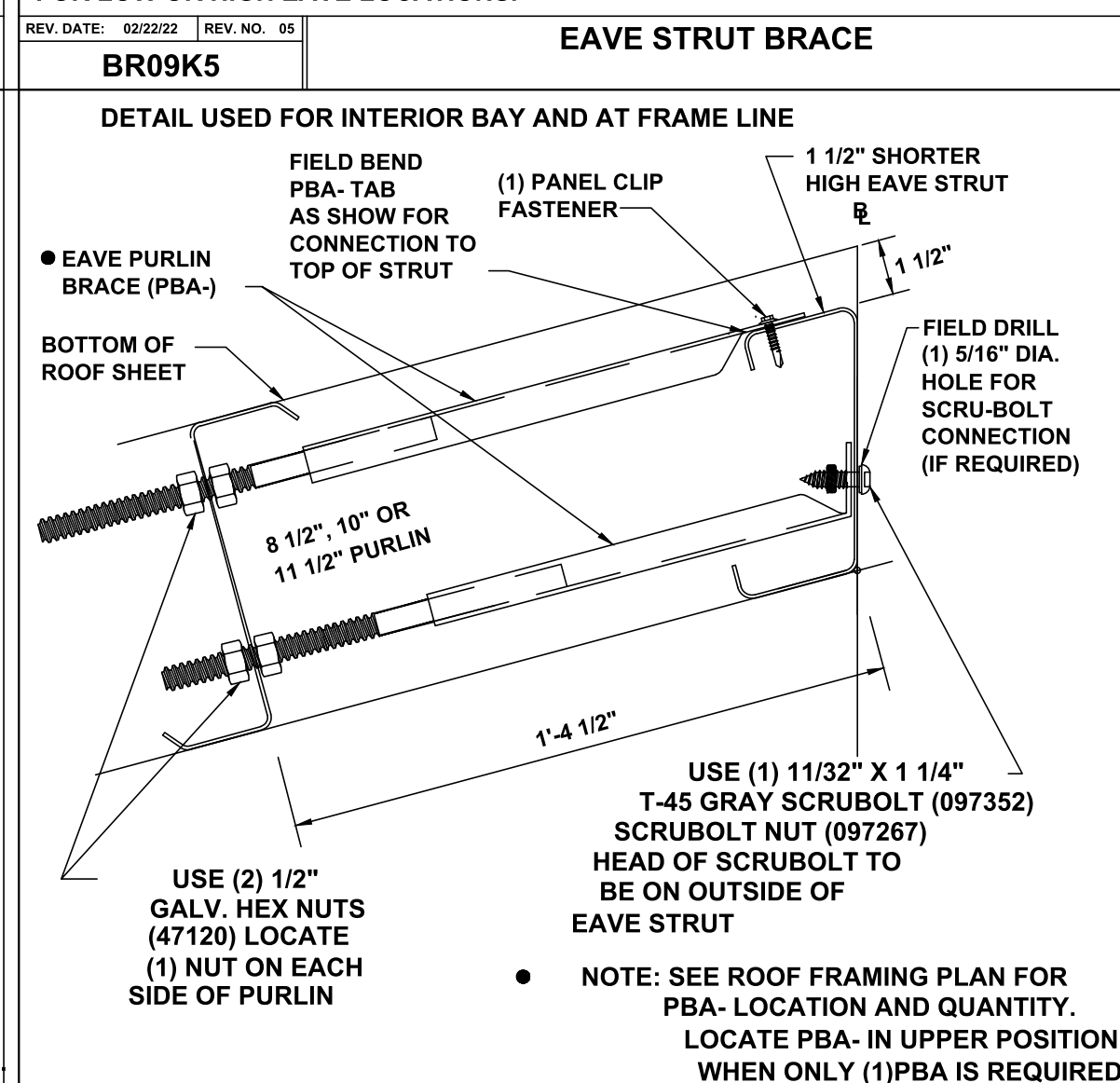
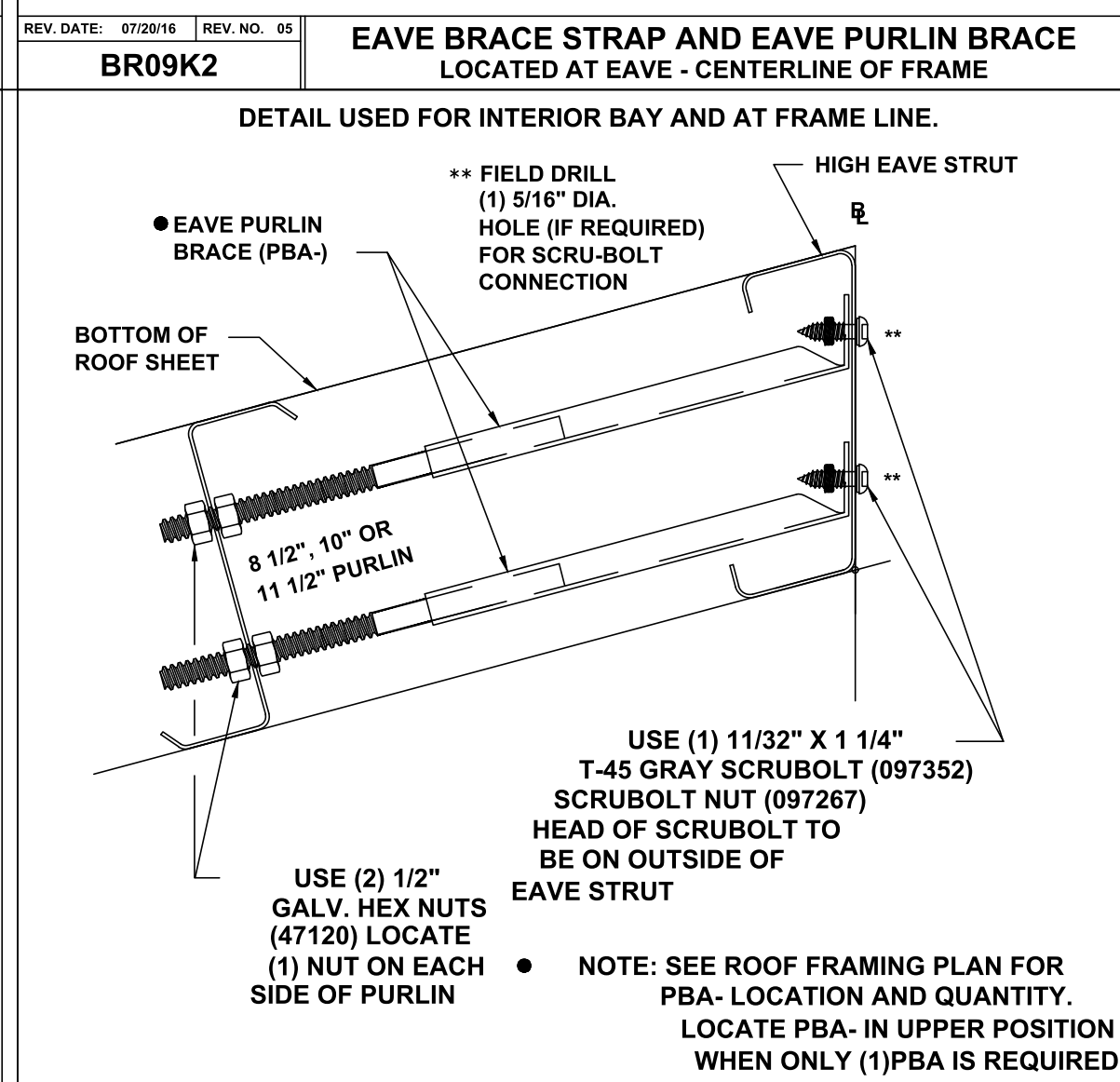
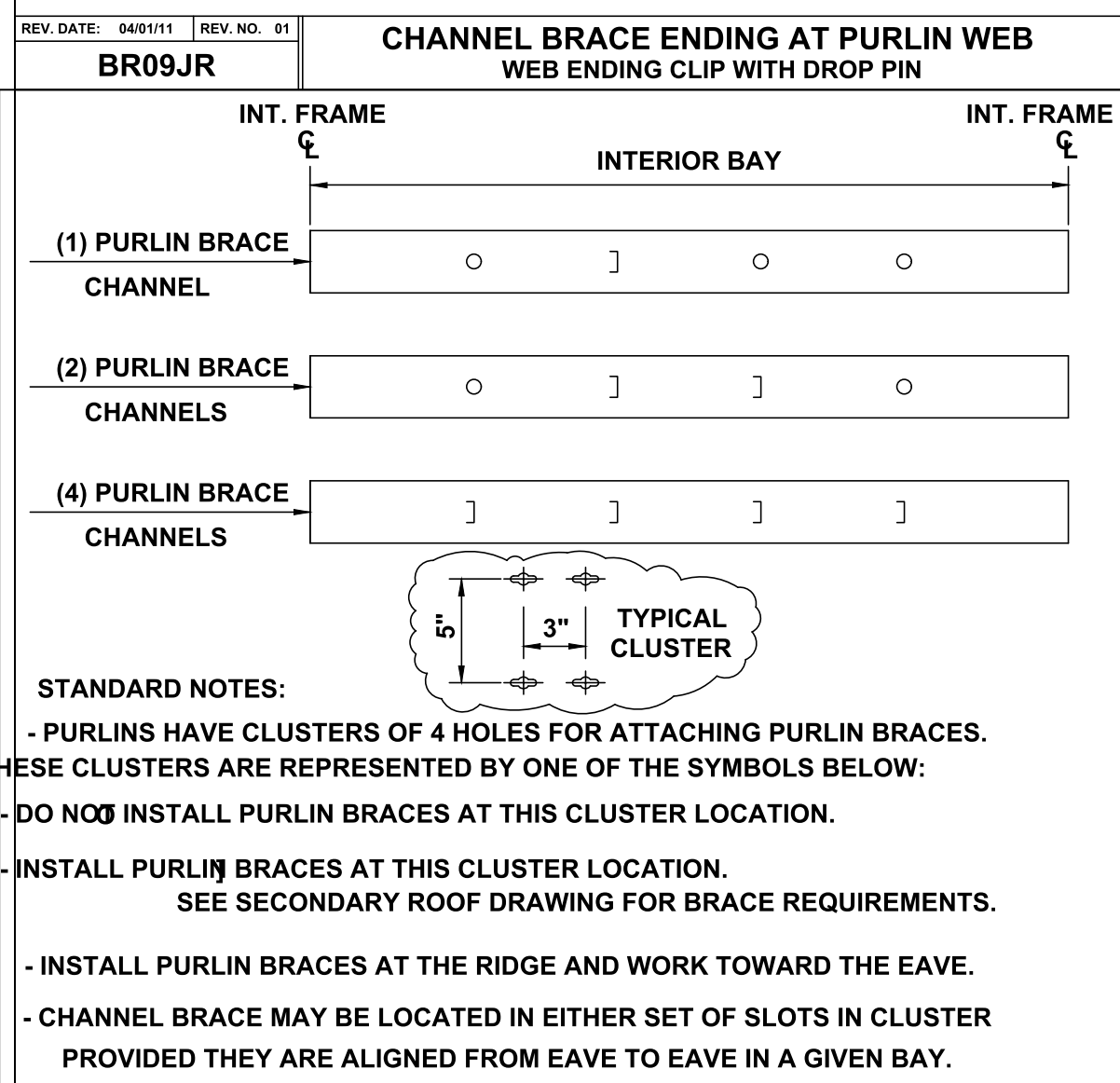
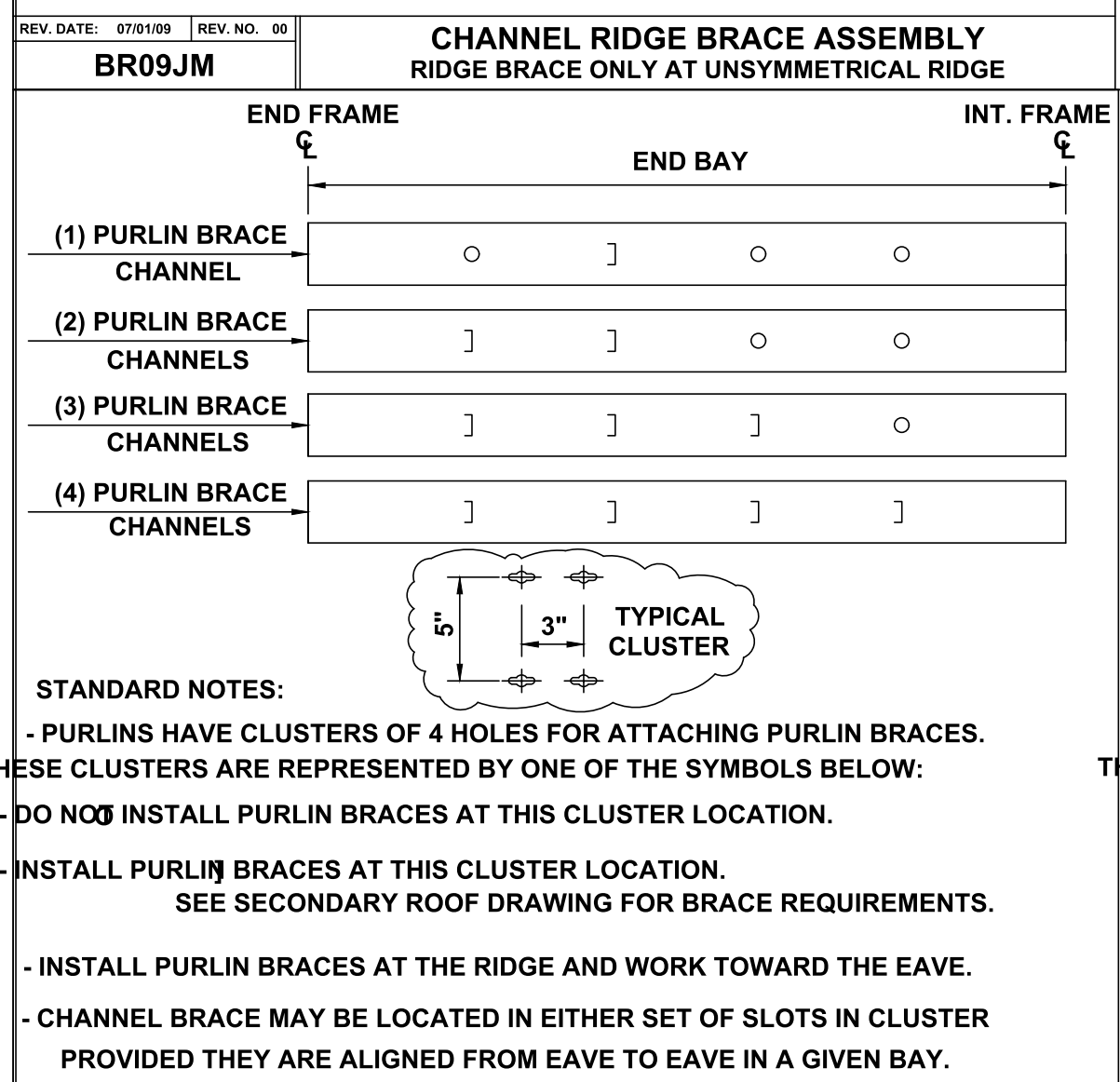
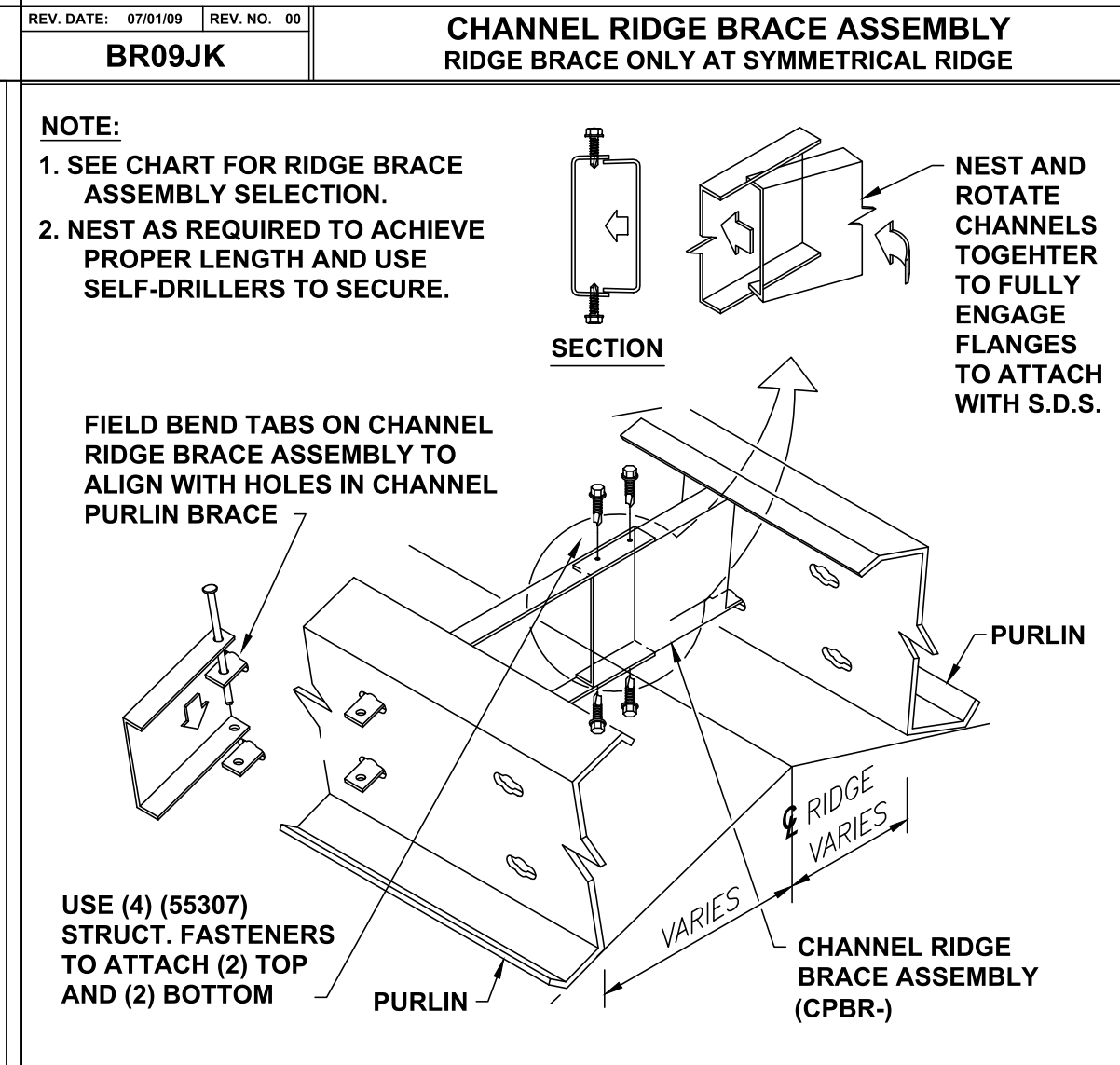
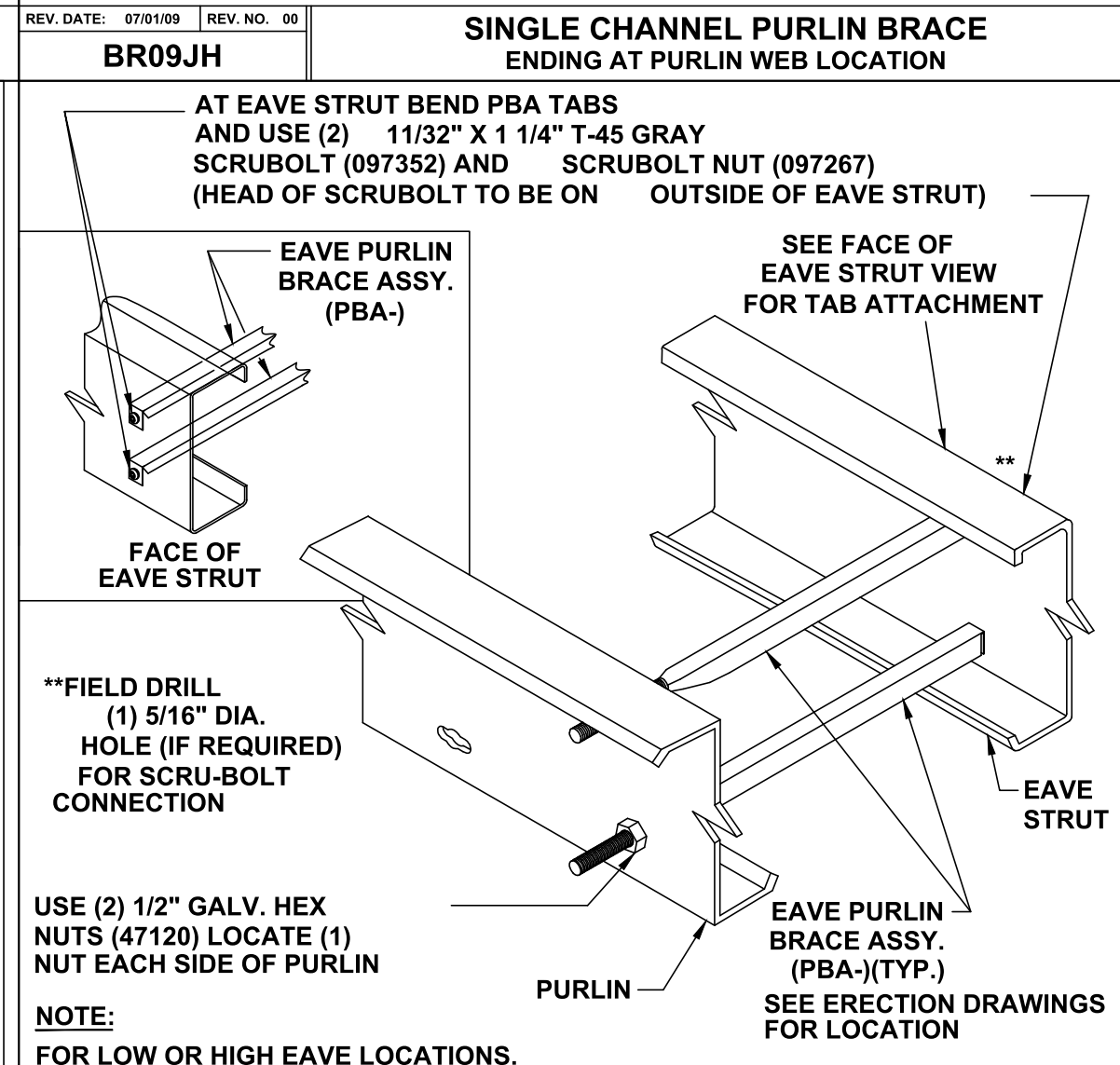
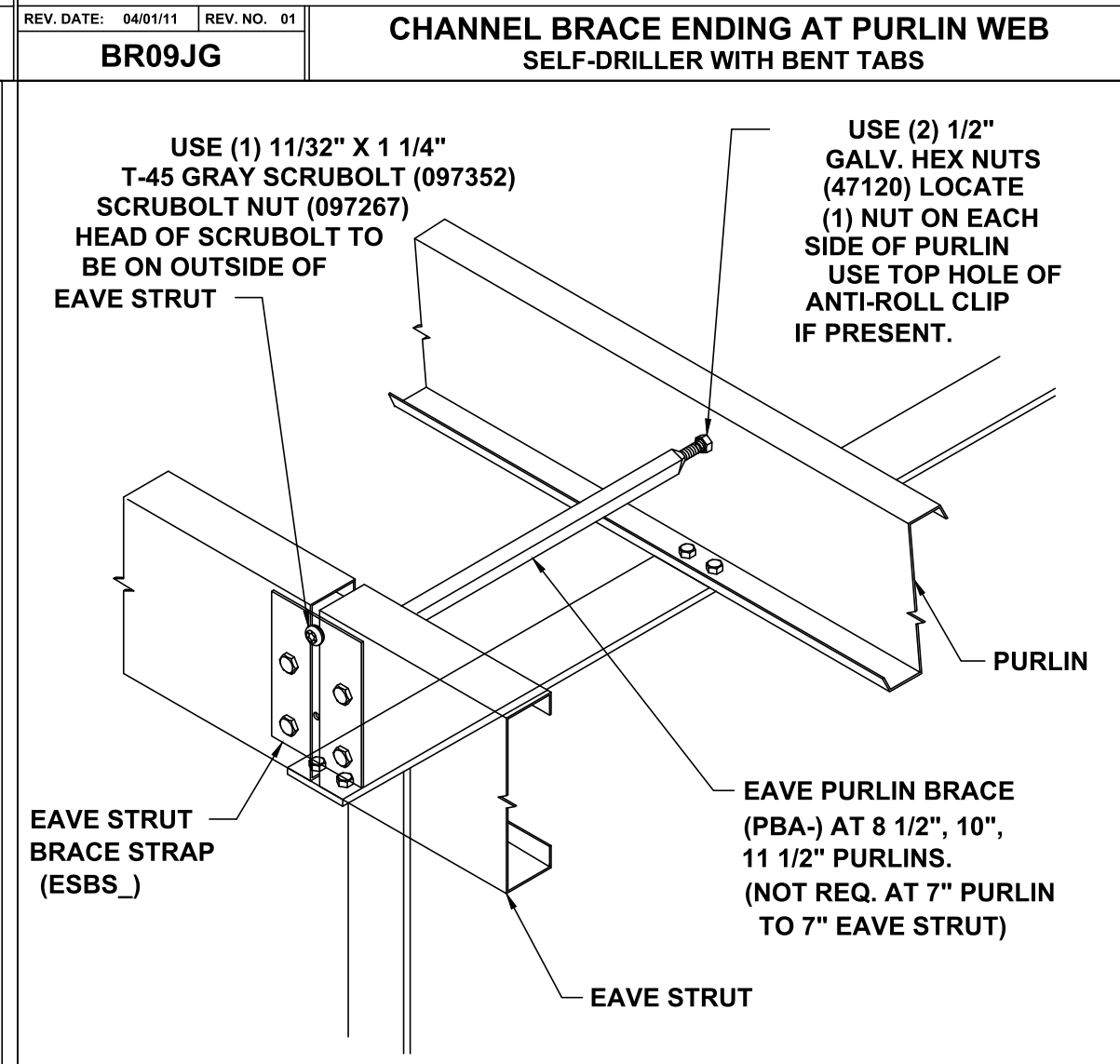
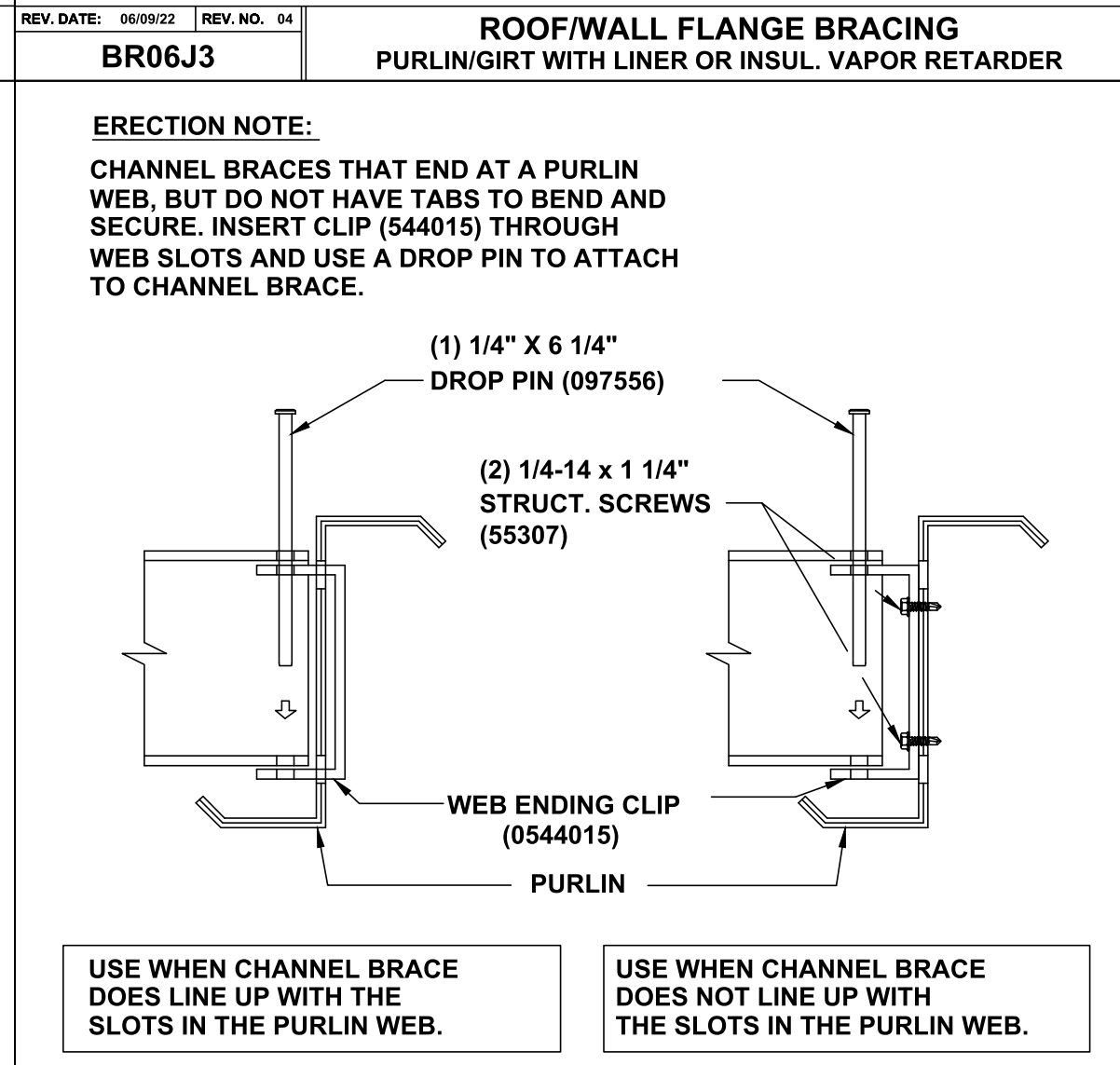
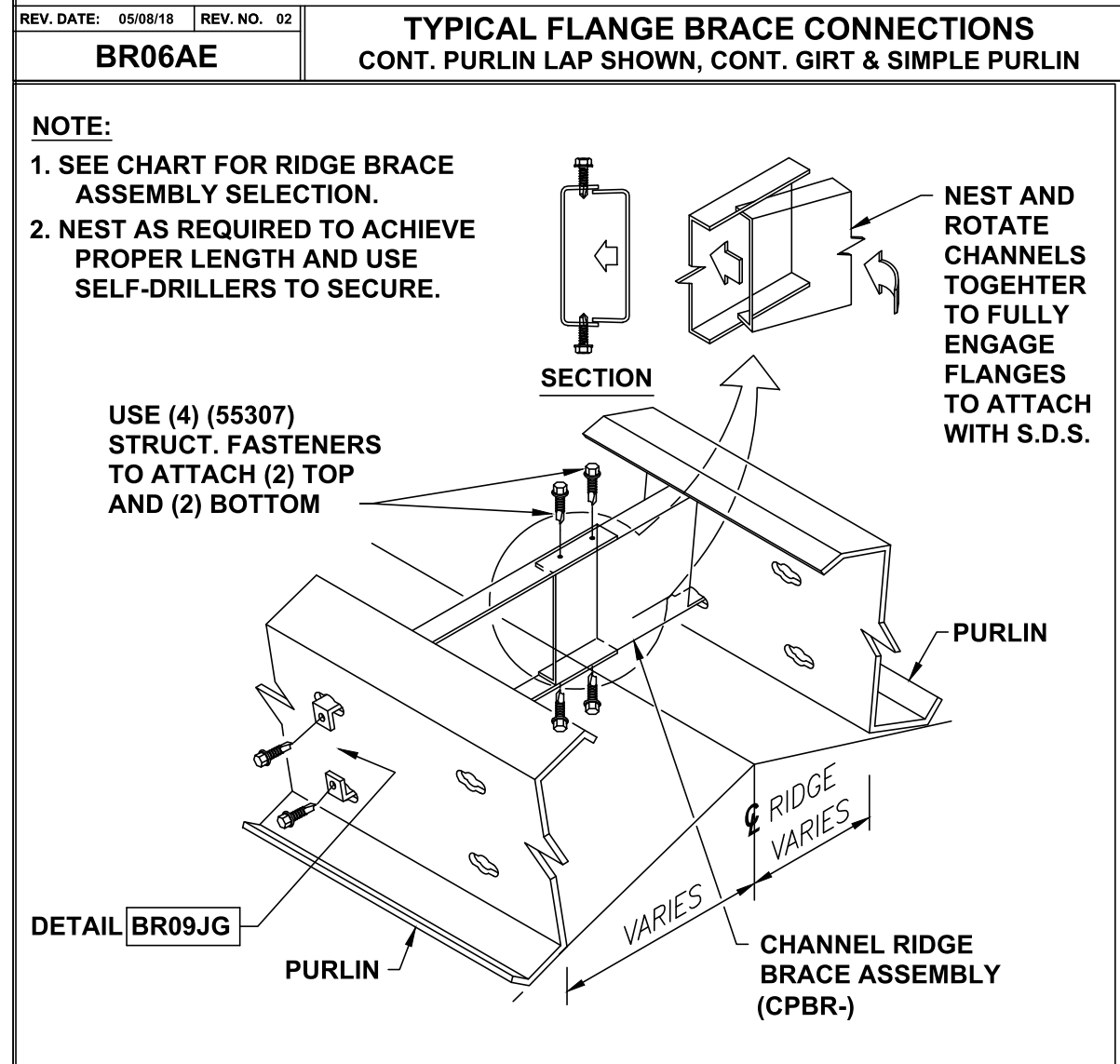
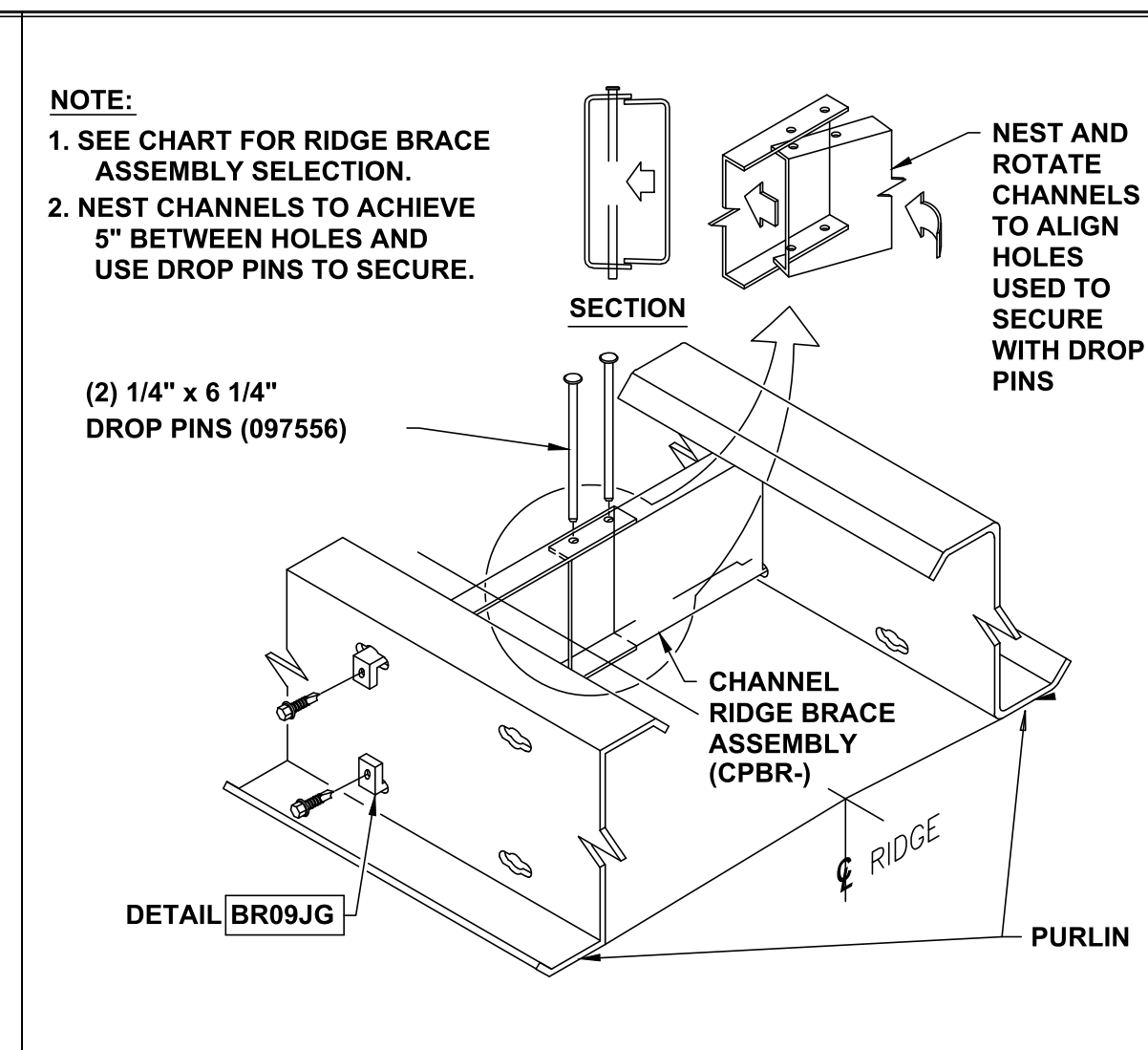
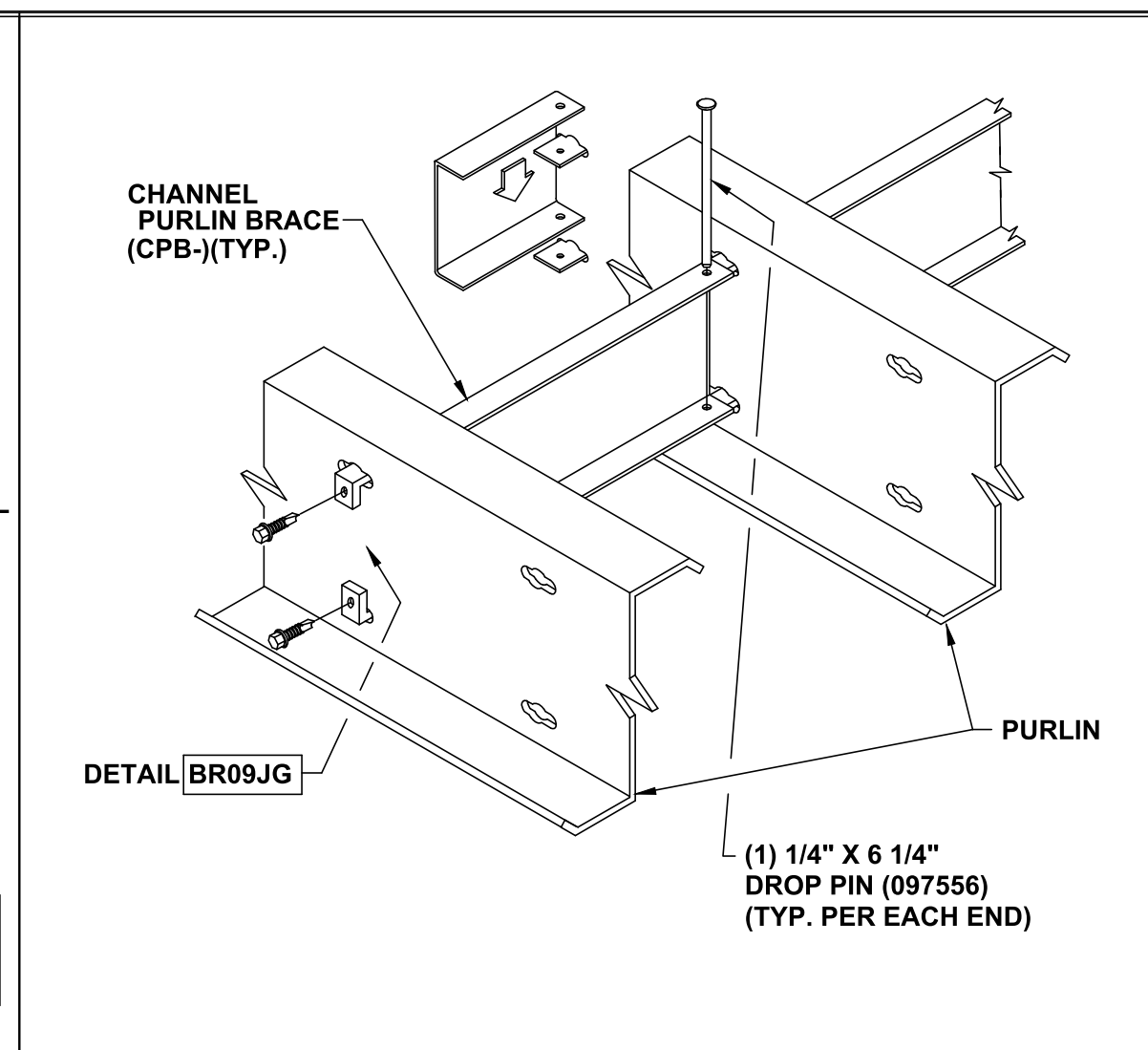
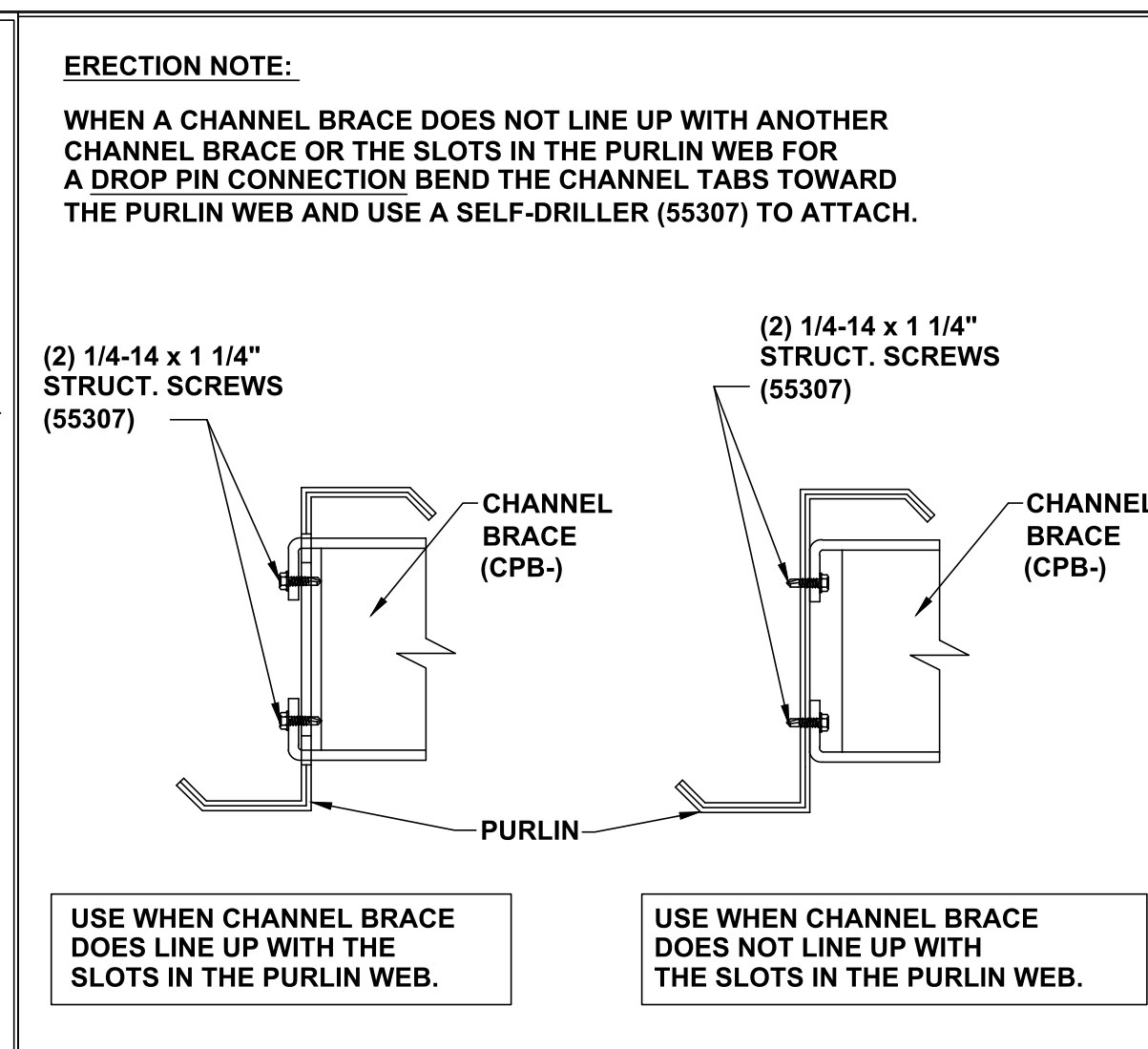
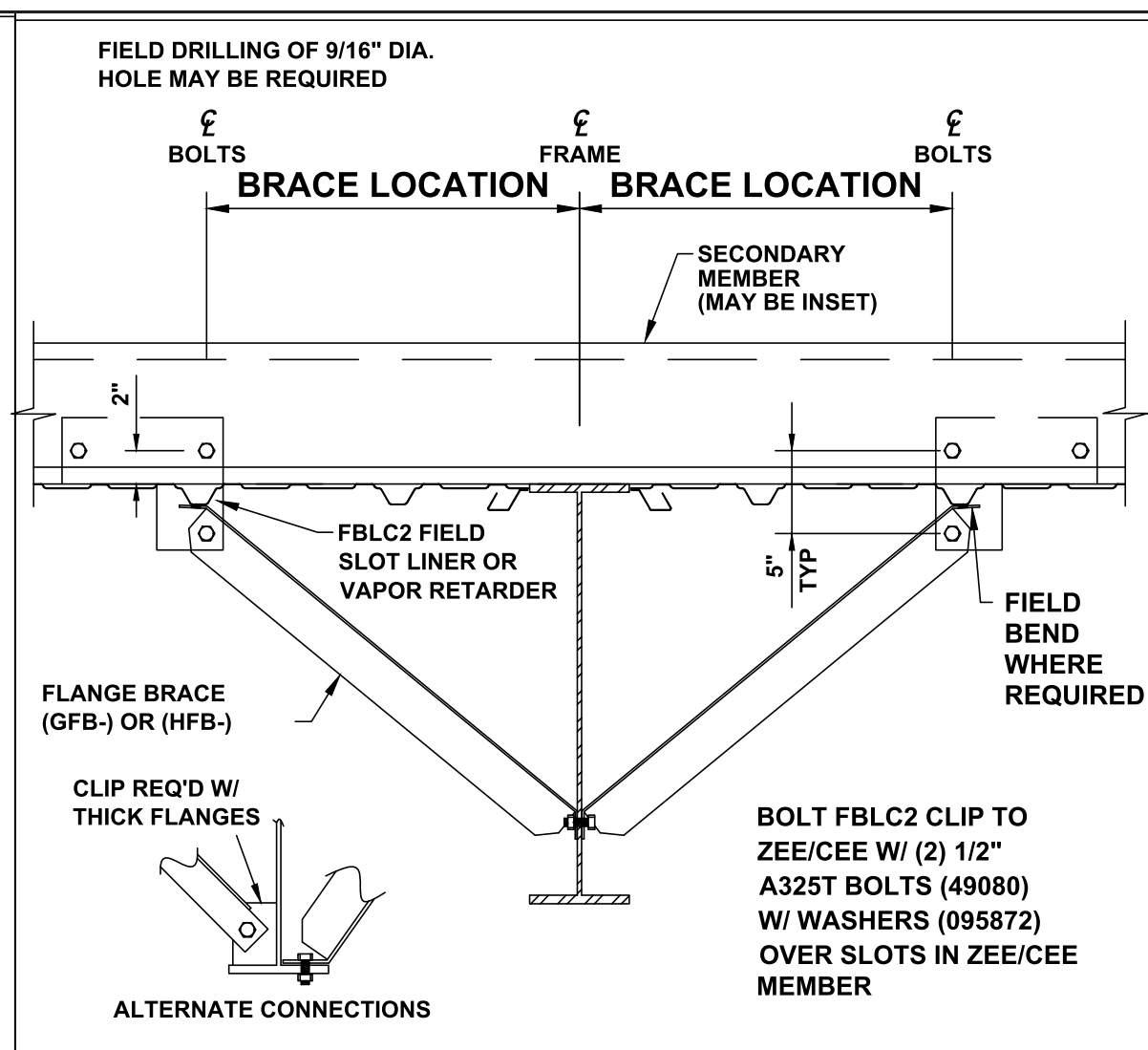
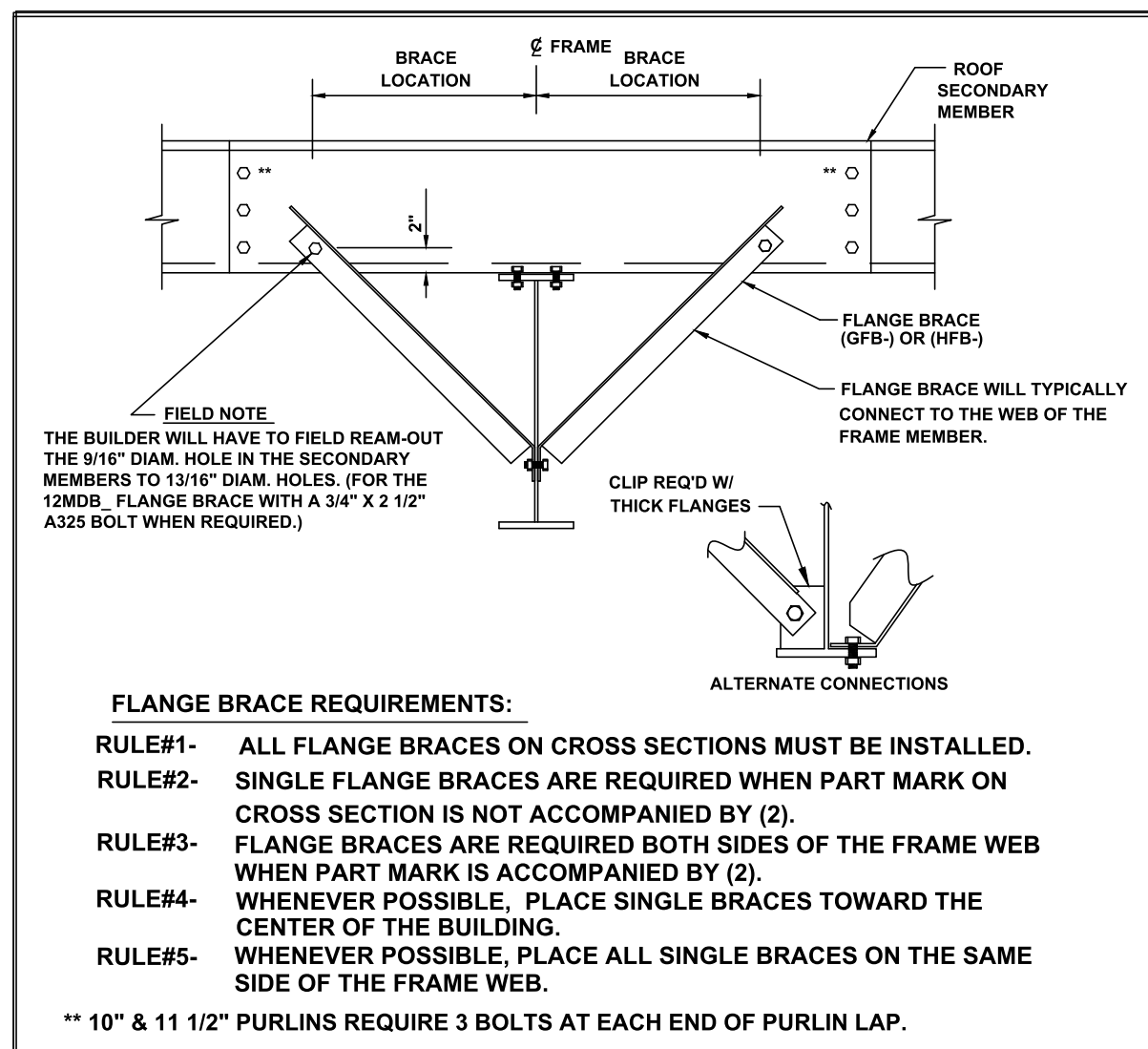


07/29/2024
BLUESCOPE BUILDINGS NORTH AMERICA, INC.
NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

FOR CONSTRUCTION

Shape Name = OPERATIONS, Shape = OPERATIONS, Shape = OPERATIONS

<p>1. UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.</p> <p>2. FLANGE BRACES ARE AN INTEGRAL PART OF THE STABILITY OF THE STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION OF WALL AND ROOF SHEETS.</p> <p>3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.</p>	<p>THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.</p>	<p>THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF VP BUILDINGS.</p> <p>THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.</p>	<p>D VP Buildings</p> <p>3200 Players Club Circle Memphis TN 38125</p>	<p>ROOF SECONDARY PLAN</p>																																
			<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>NTS</p>	REV	DATE	BY	DESCRIPTION													<table border="1"> <tr> <td>BUILDER</td> <td>Lemartec Corporation</td> </tr> <tr> <td>CUSTOMER</td> <td>Duke Energy</td> </tr> <tr> <td>LOCATION</td> <td>Dunn, North Carolina</td> </tr> <tr> <td>PROJECT</td> <td>Duke Energy Dunn Operations Center</td> </tr> <tr> <td>BUILDERS FOR</td> <td>23068 - Ops</td> </tr> </table>	BUILDER	Lemartec Corporation	CUSTOMER	Duke Energy	LOCATION	Dunn, North Carolina	PROJECT	Duke Energy Dunn Operations Center	BUILDERS FOR	23068 - Ops	<table border="1"> <tr> <td>JOBNO</td> <td>23-016001-01</td> </tr> <tr> <td>DATE</td> <td>4/29/2024</td> </tr> <tr> <td>DRAWN/CHECK</td> <td>AMD CLS</td> </tr> <tr> <td>PAGE</td> <td>16</td> </tr> </table>	JOBNO	23-016001-01	DATE	4/29/2024	DRAWN/CHECK
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MMSA
STRUCTURAL ENGINEERS
RECEIVED: 08/01/2024

SEAL
047190
ALAN M. JUNGNITSCH
ENGINEER

07/29/2024
BLUESCOPE BUILDINGS NORTH AMERICA, INC.
NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

FOR CONSTRUCTION

BR09RY PURLIN BRACE CLUSTER LOCATION END BAY CHANNEL LOCATION

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BR09RZ PURLIN BRACE CLUSTER LOCATION INTERIOR BAY CHANNEL LOCATION

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BR09W2 HIGH EAVE PURLIN BRACE ALL WALL PANEL TYPE

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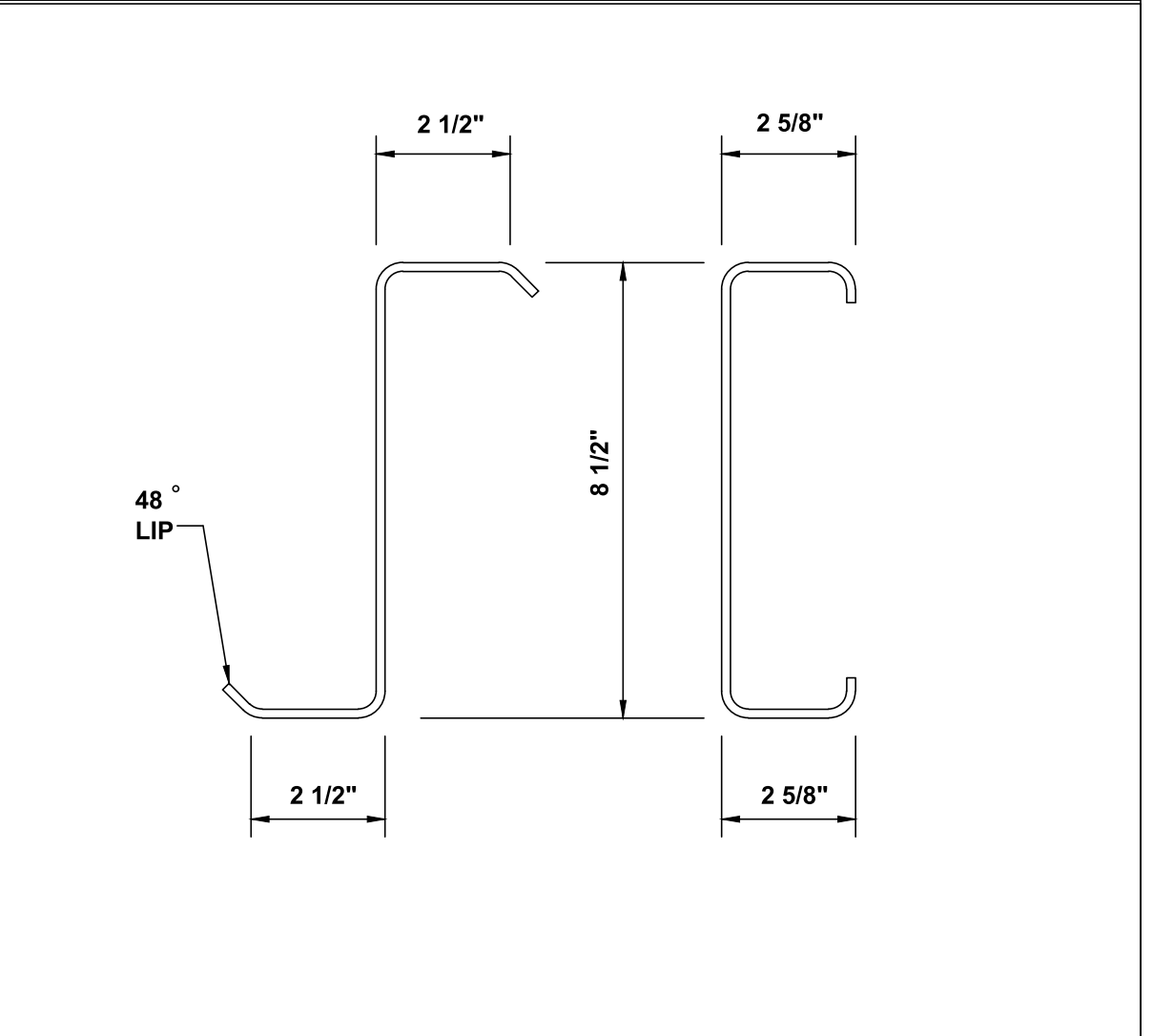
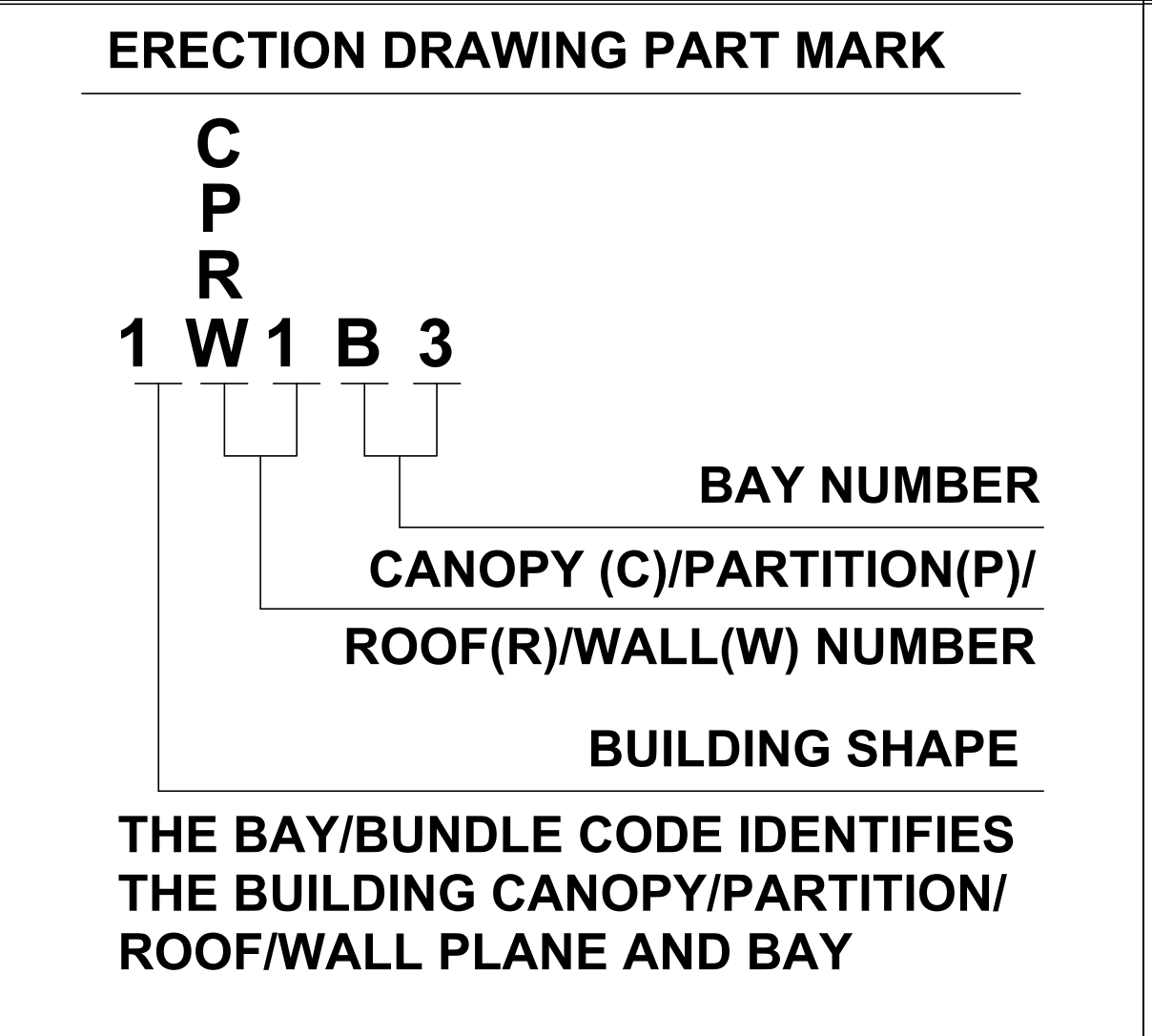
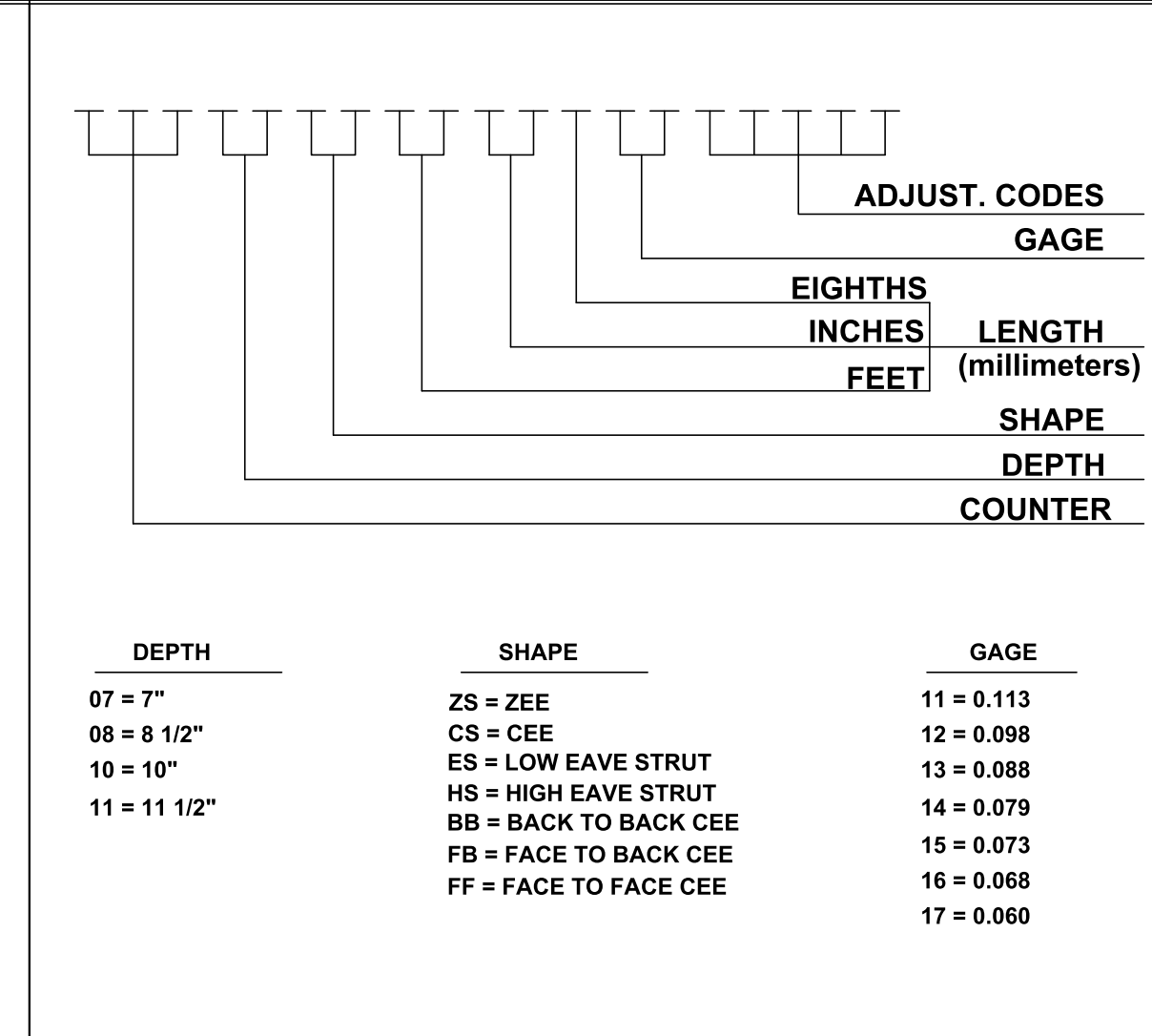
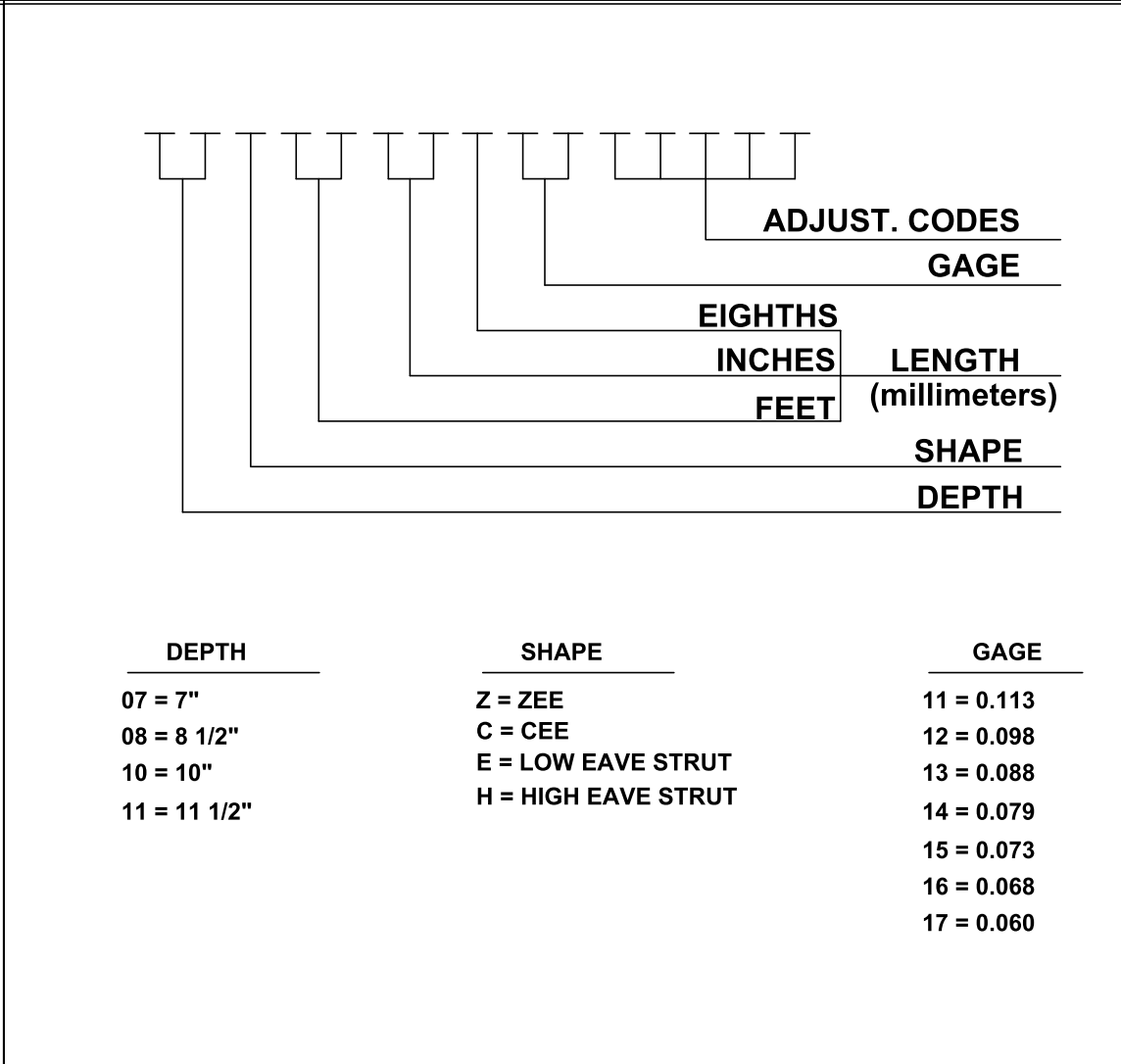
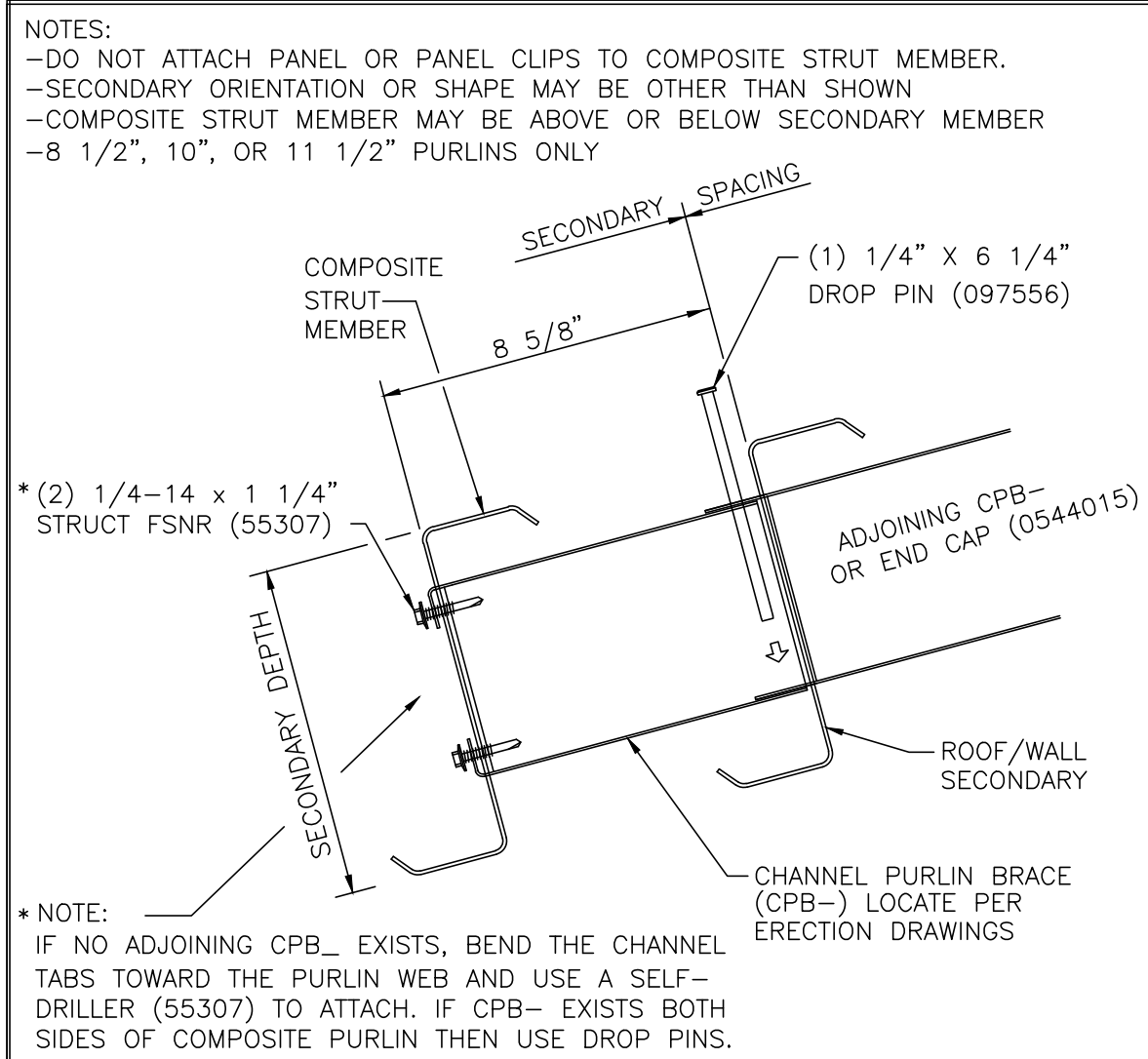
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BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS PO#
Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center	23068 - Ops

JOBNO	DATE	DRAWN/CHECK	CLS
23-016001-01	4/29/2024	AMD	CLS

VP BUILDINGS
VARCO PRUDEN
A BlueScope Steel Company
VPC VERSION: 24.1.0

FILENAME: Duke Energy - Ops



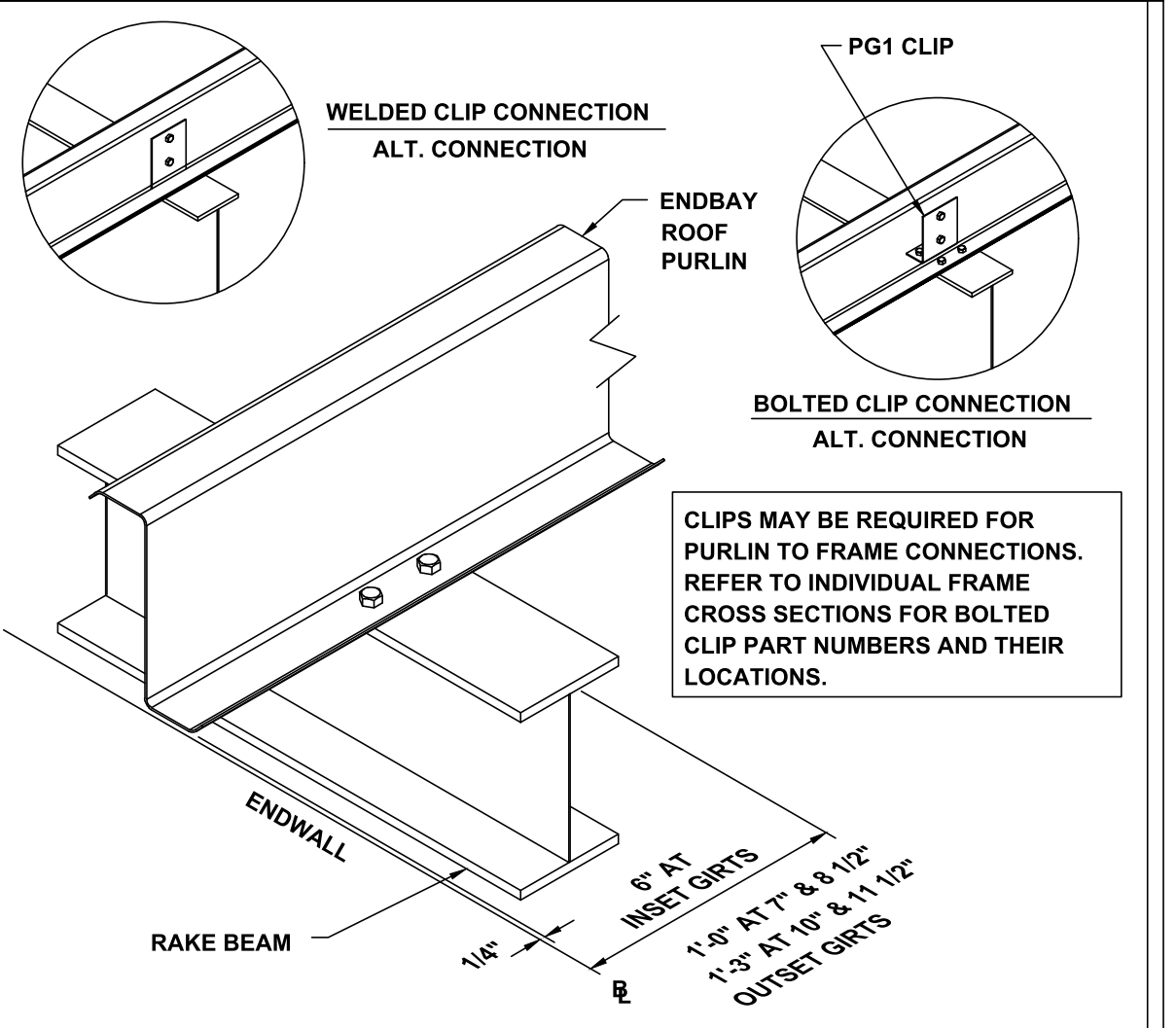
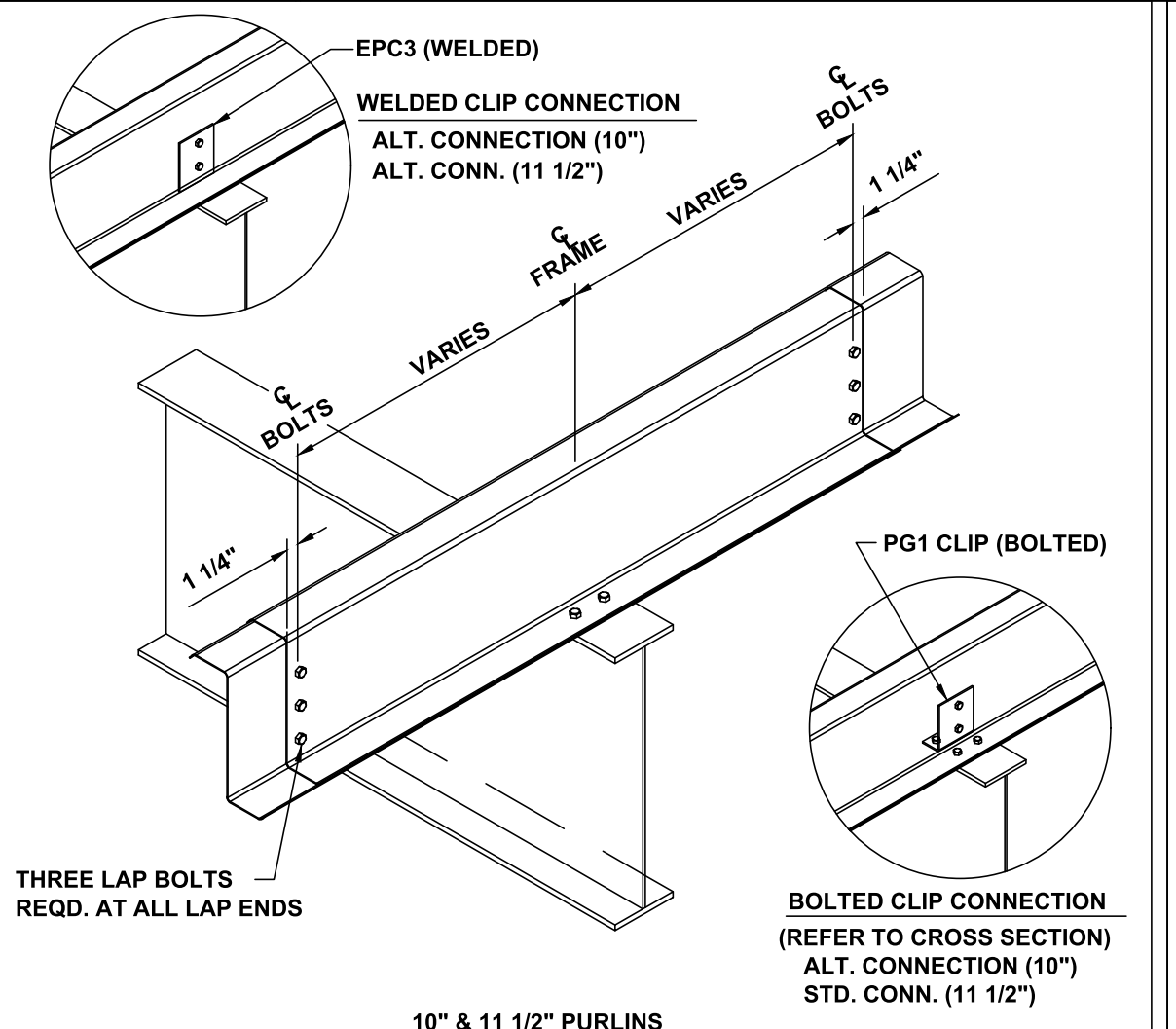
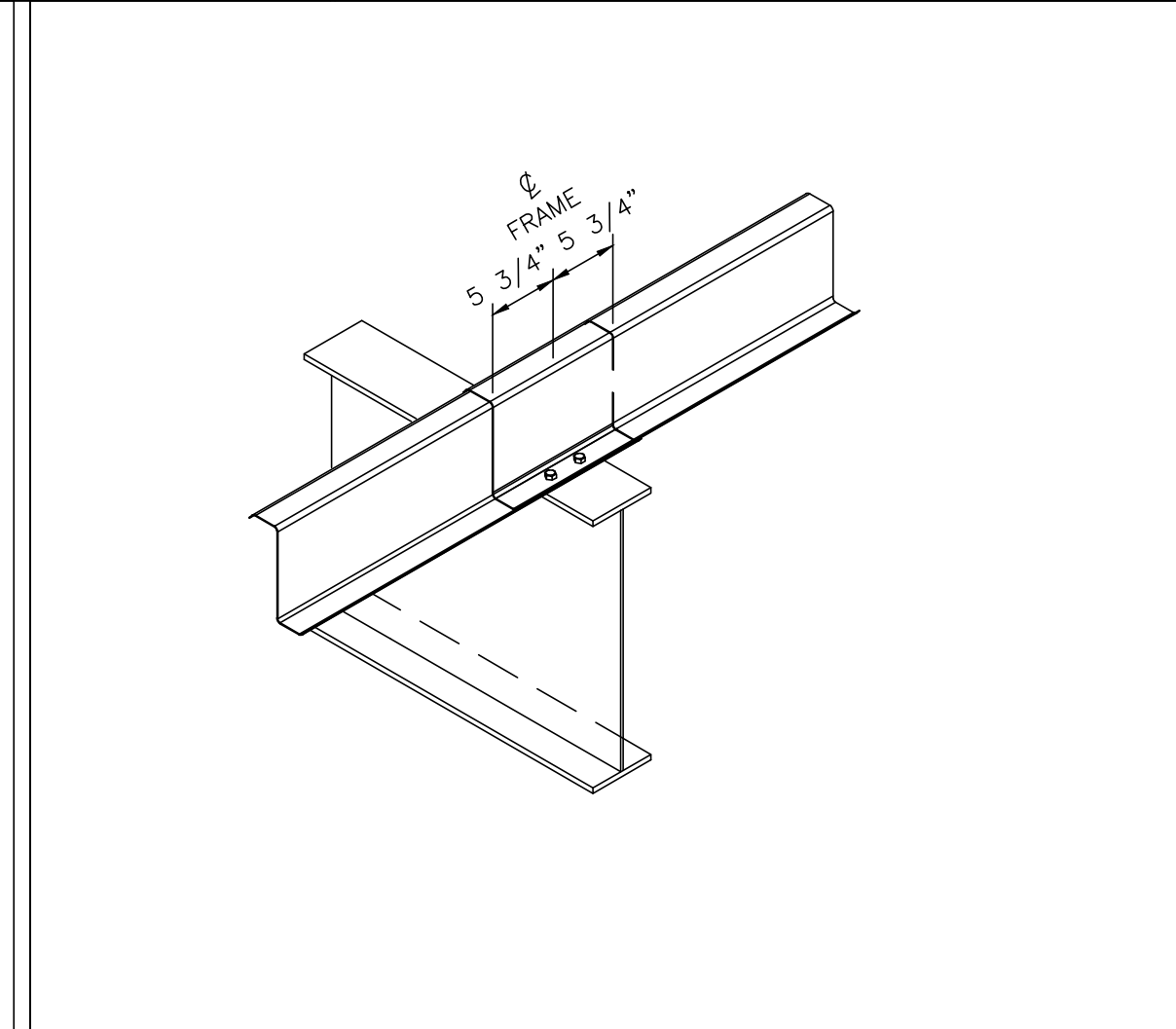
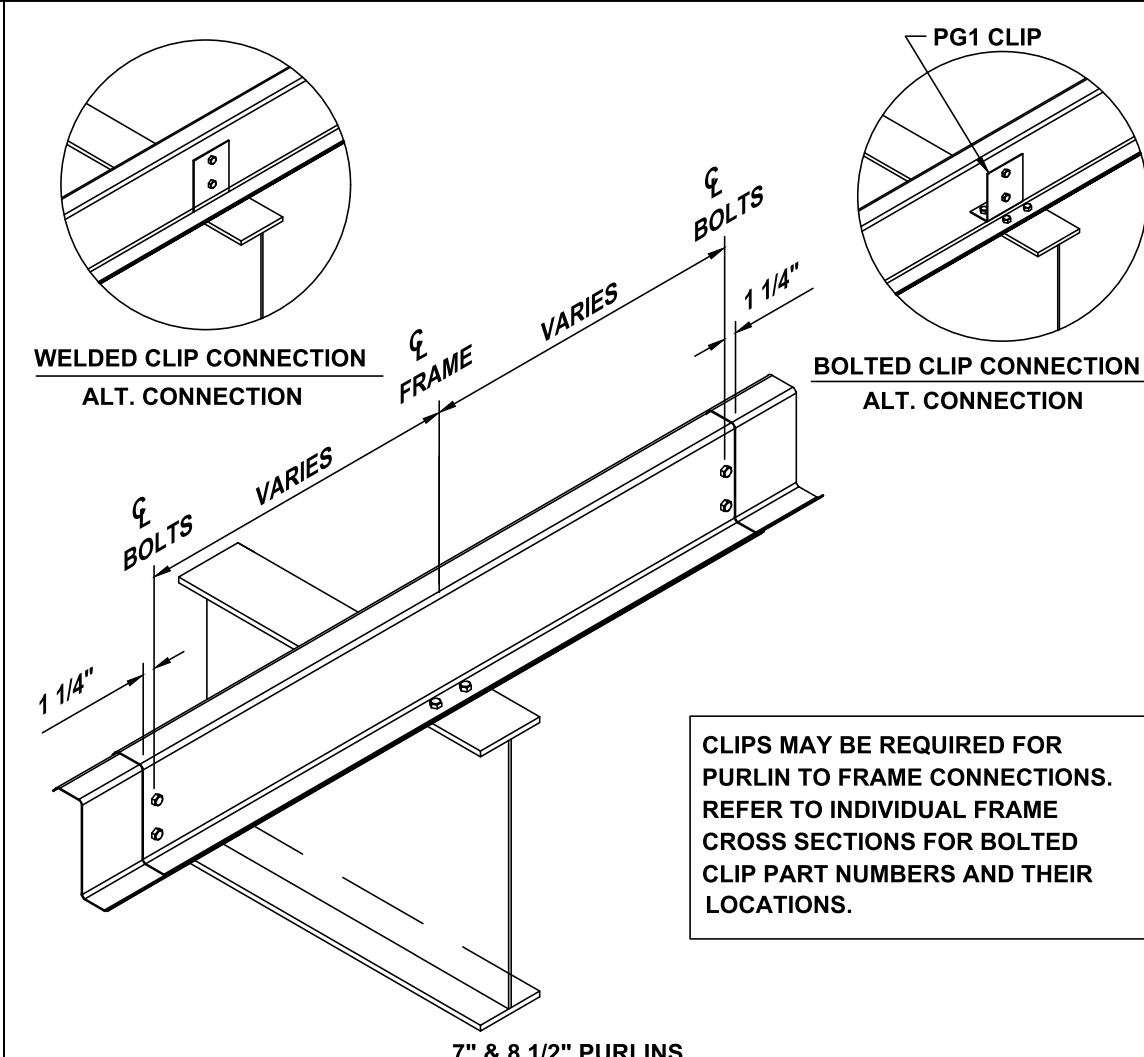
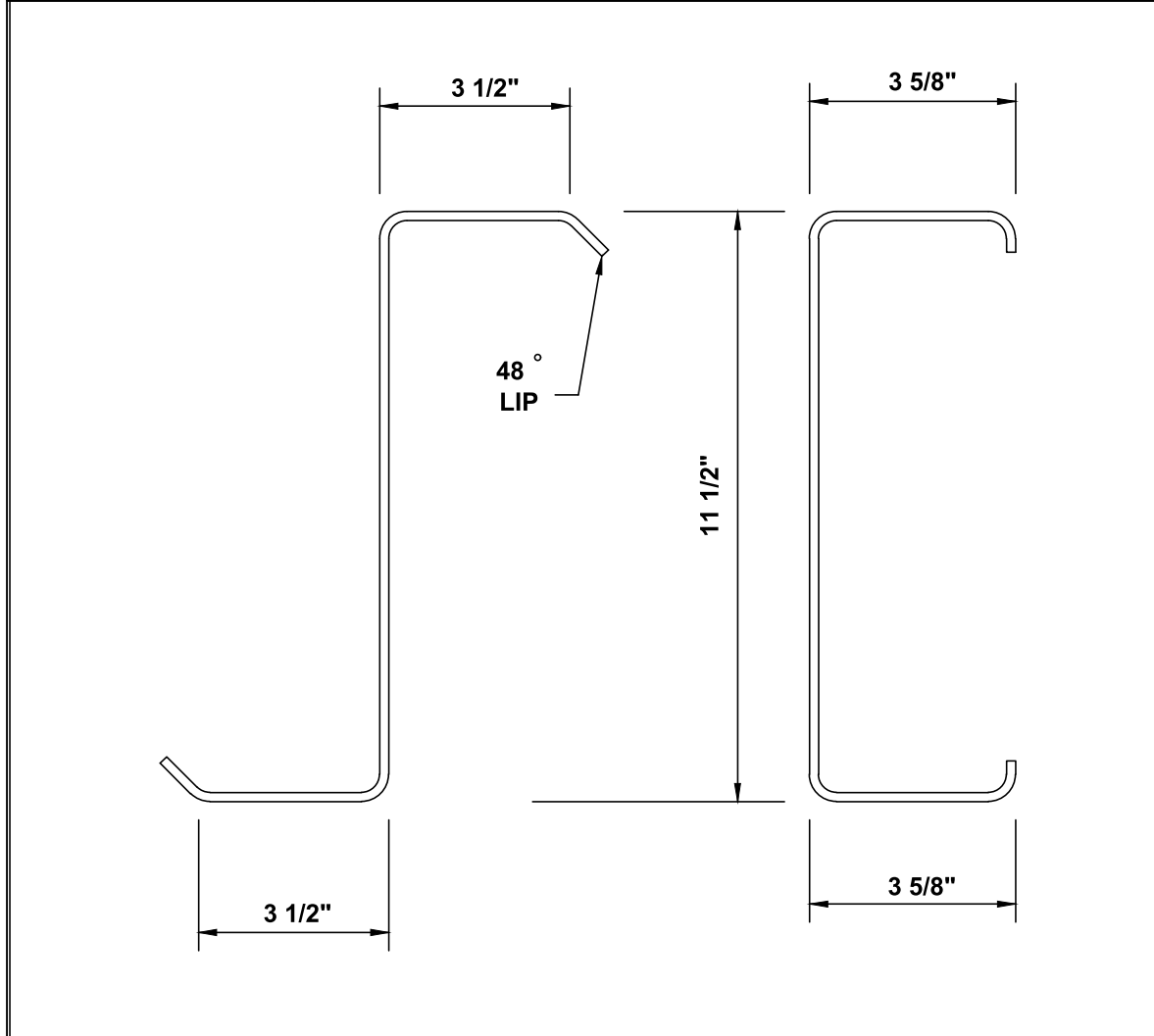
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BR18E2 COMPOSITE STRUT ASSEMBLY ATTACH. ROOF SECONDARY

REV. DATE: 07/01/09 REV. NO. 00
EN51B1 SECONDARY PART MARK NUMBER COMMON GENERATED MARK NUMBERS

REV. DATE: 07/01/09 REV. NO. 00
EN51B2 SPECIAL SECONDARY PART MARK KEY COMMON GENERATED MARK NUMBERS

REV. DATE: 01/01/13 REV. NO. 01
EN51B3 SECONDARY BUNDLE LOCATION KEY ALL SECONDARY DEPTHS

REV. DATE: 07/01/09 REV. NO. 00
EN53F1 PURLIN AND GIRTS SIZES 8 1/2" x 216mm



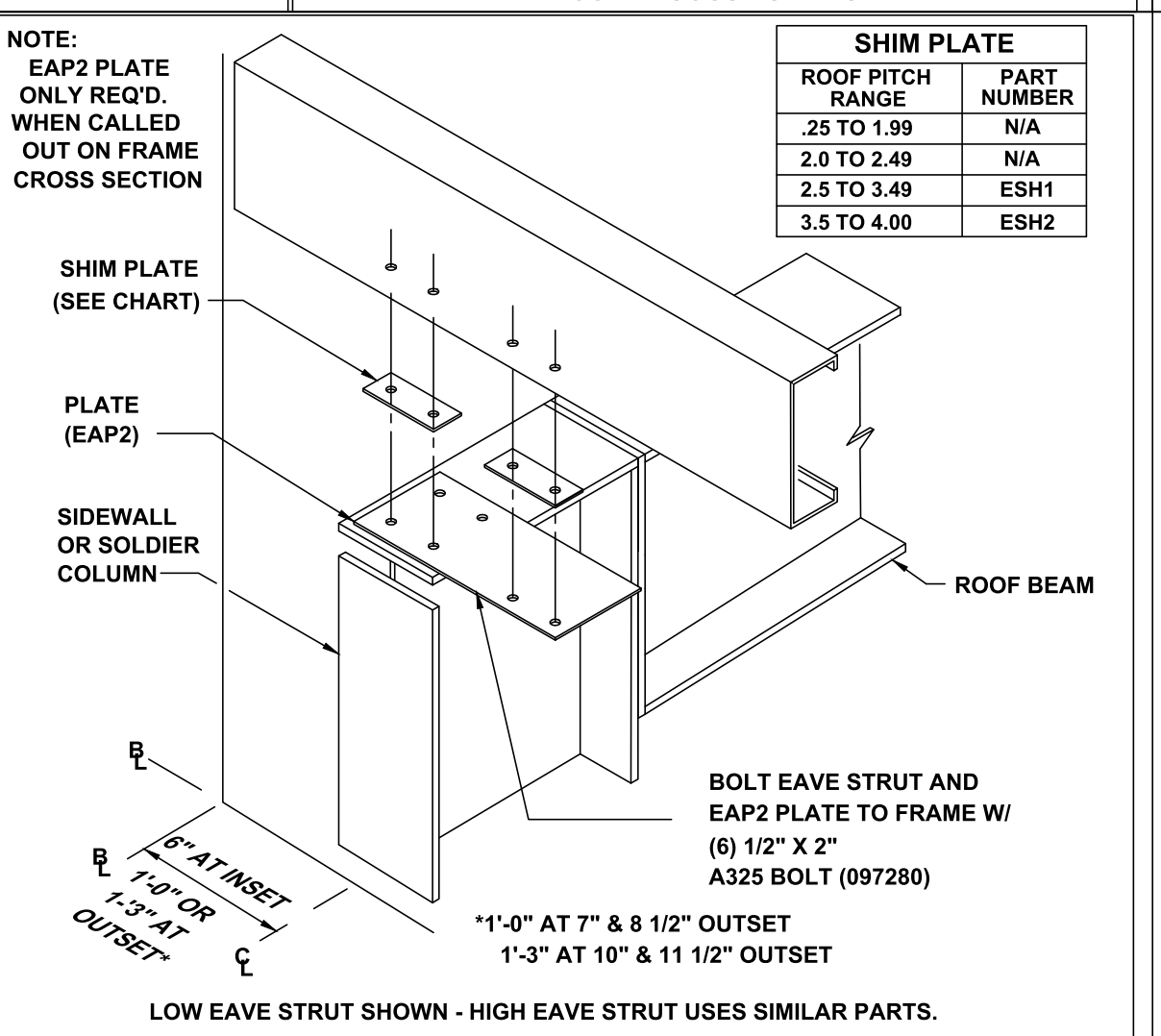
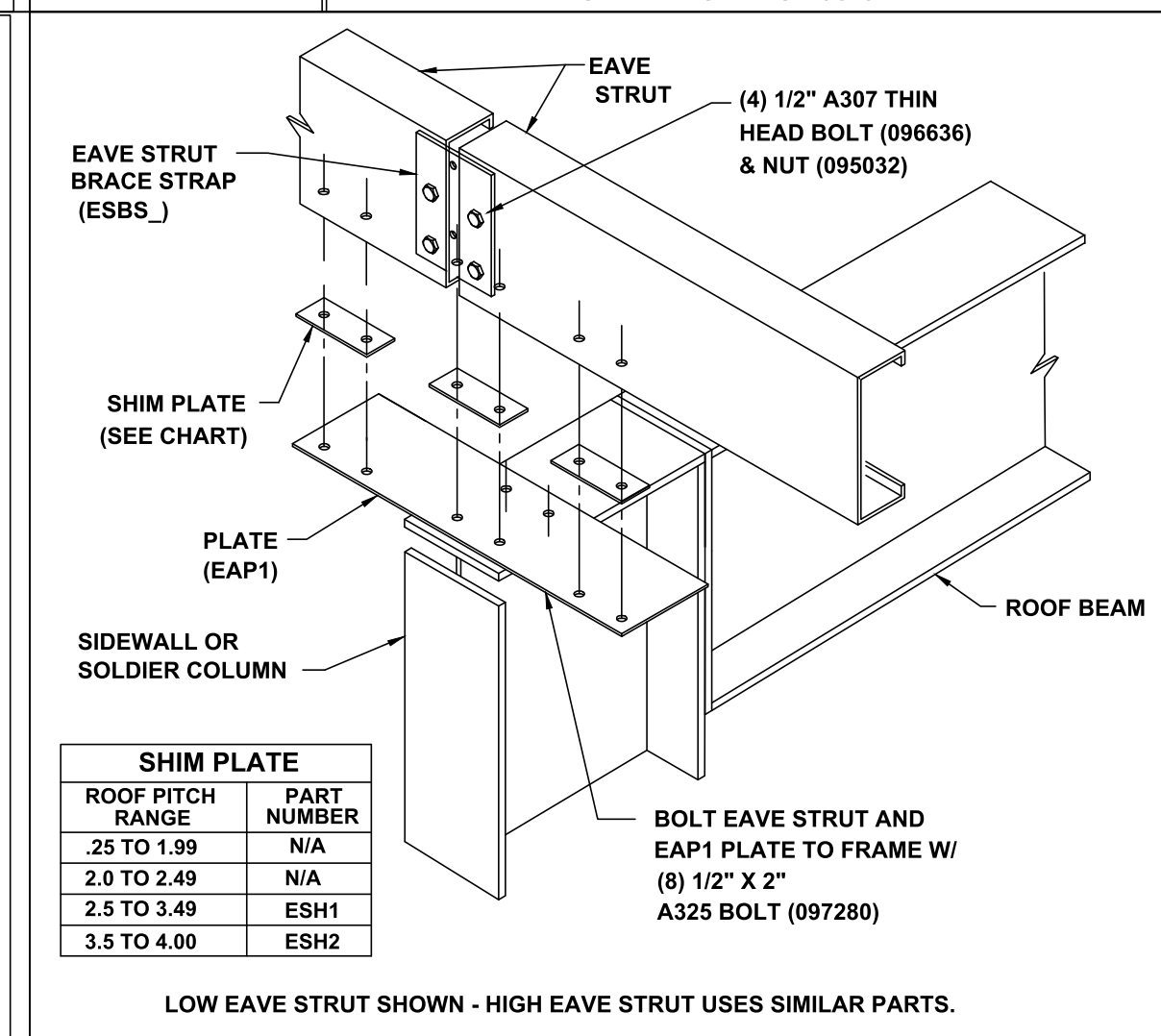
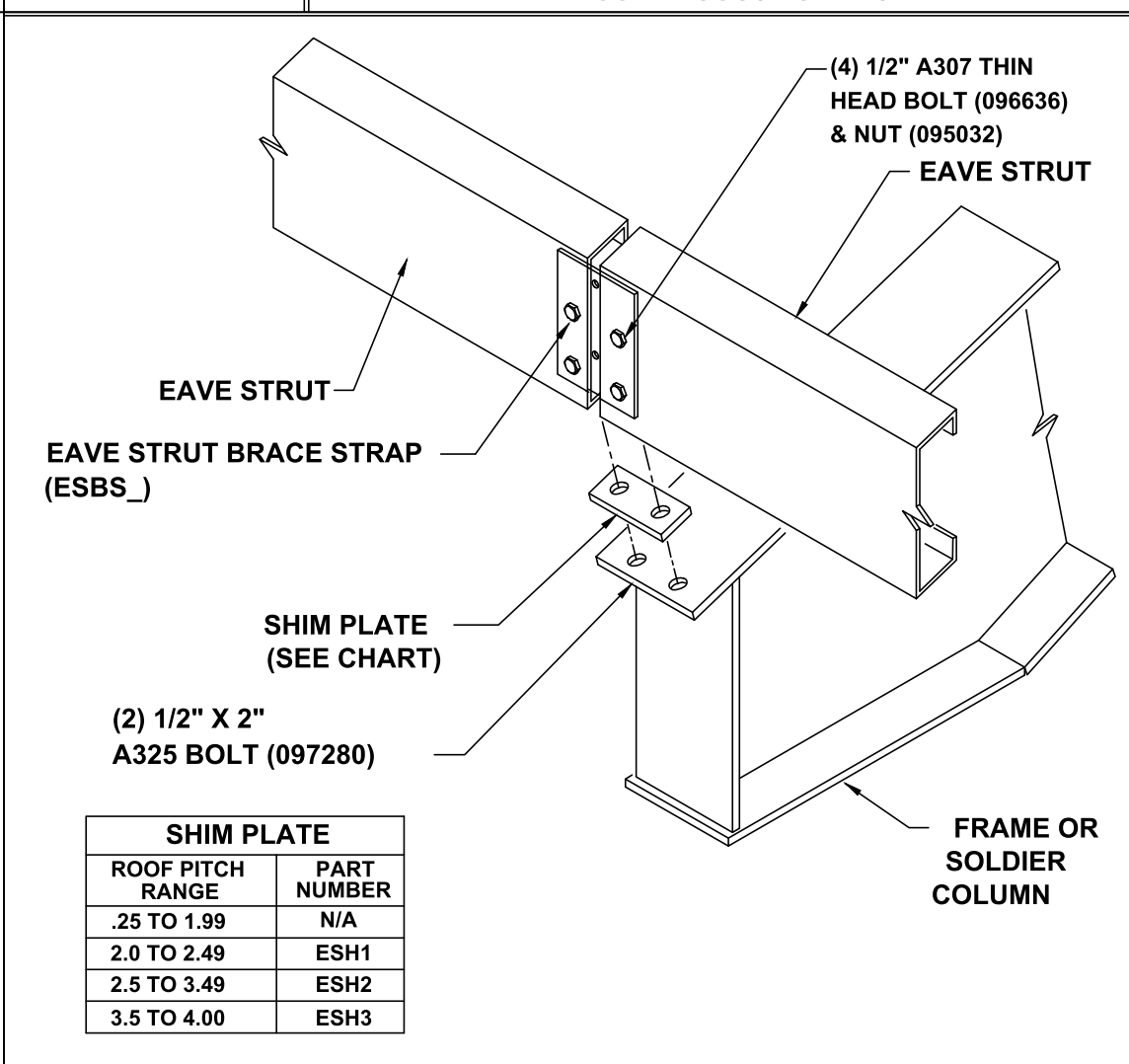
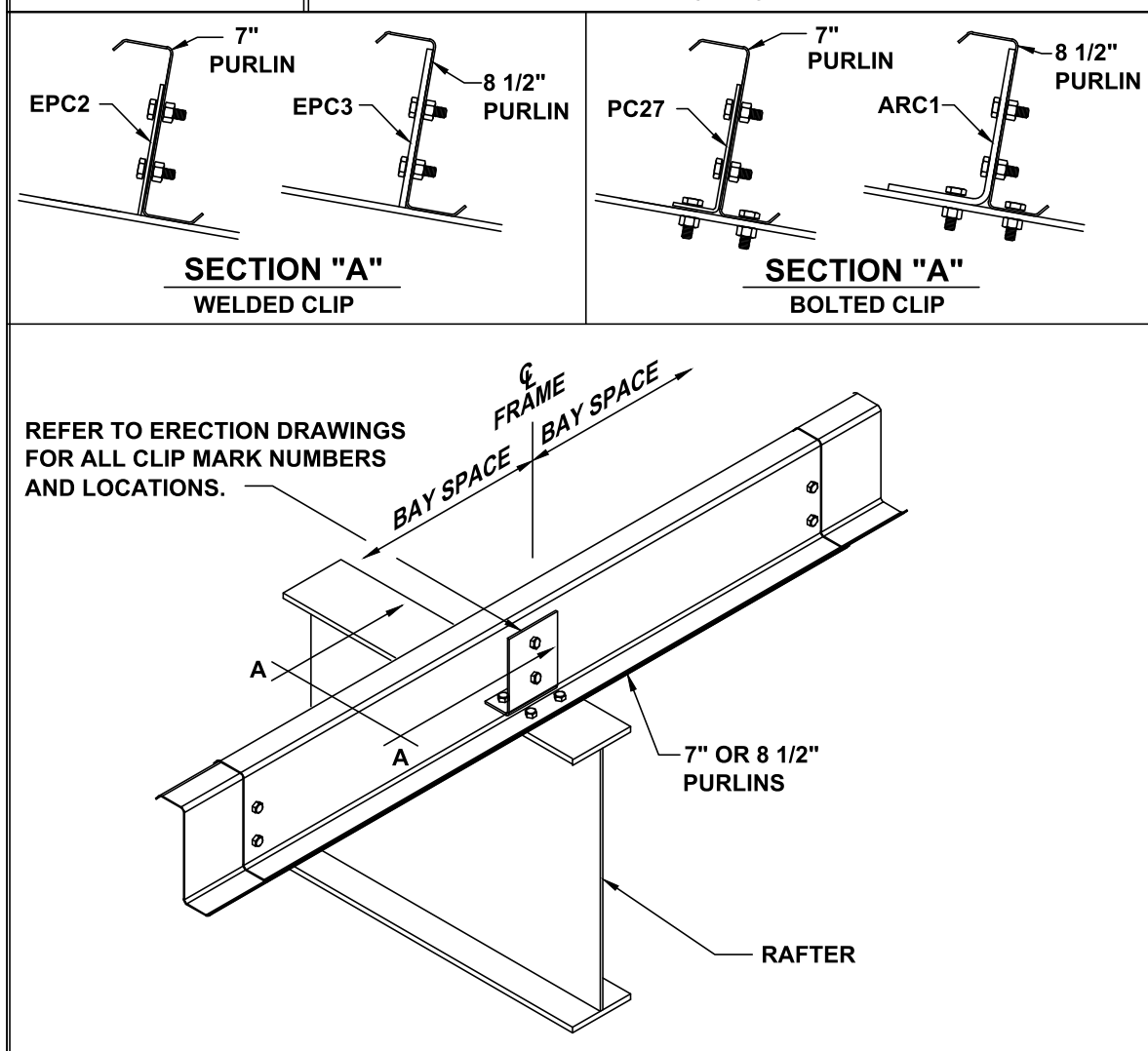
REV. DATE: 07/01/09 REV. NO. 00
EN53H1 PURLIN / GIRTS 11 1/2" x 292mm

REV. DATE: 08/17/15 REV. NO. 02
RS01T1 PURLIN CONNECTION AT INTERIOR FRAME CONTINUOUS PURLINS

REV. DATE: 07/01/09 REV. NO. 00
RS01TD PURLINS AT INTERIOR FRAME SIMPLE PURLINS W/O CLIP

REV. DATE: 06/17/14 REV. NO. 02
RS01U1 PURLINS AT INTERIOR FRAME CONTINUOUS PURLINS

REV. DATE: 06/17/15 REV. NO. 02
RS02T1 PURLIN CONNECTION TO END FRAME CONTINUOUS PURLINS



REV. DATE: 08/11/14 REV. NO. 04
RS03J1 ANTI-ROLL PURLIN CLIPS WHEN REQUIRED BY DESIGN

REV. DATE: 07/20/16 REV. NO. 03
RS12PA EAVE STRUT CONNECTION AT INTERIOR FRAME

REV. DATE: 07/20/16 REV. NO. 03
RS12PE EAVE STRUT W/ ATTACHMENT PLATE INTERIOR FRAME

REV. DATE: 03/26/15 REV. NO. 02
RS12PF EAVE STRUT W/ ATTACHMENT PLATE END FRAME

FOR CONSTRUCTION

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REV	DATE	BY	DESCRIPTION

VP Buildings
 3200 Players Club Circle Memphis TN 38125

BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS PO#
Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center	23068 - Ops

JOBNO	DATE	DRAWINGCHECK	PAGE
23-016001-01	4/29/2024	AMD	18

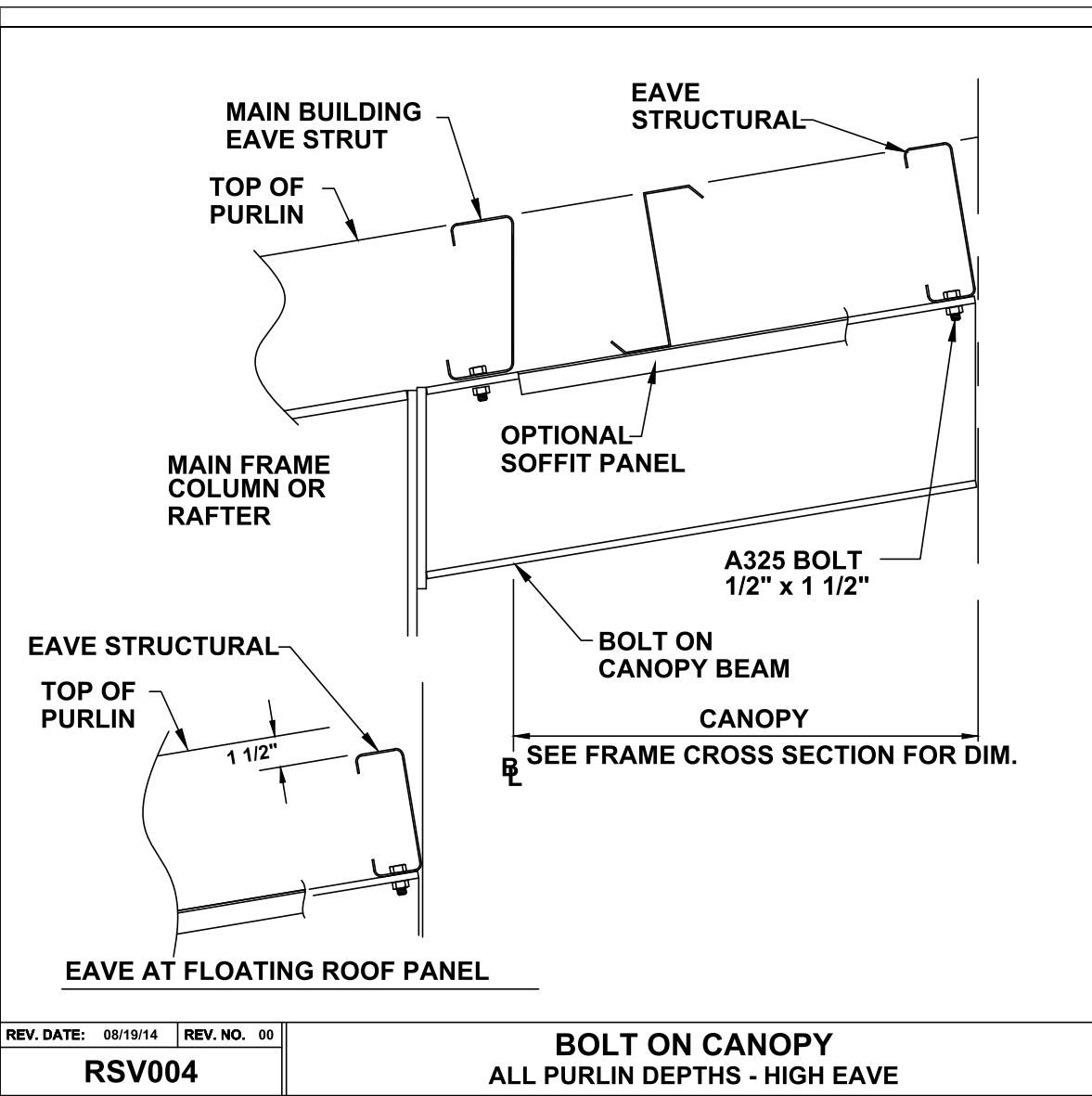
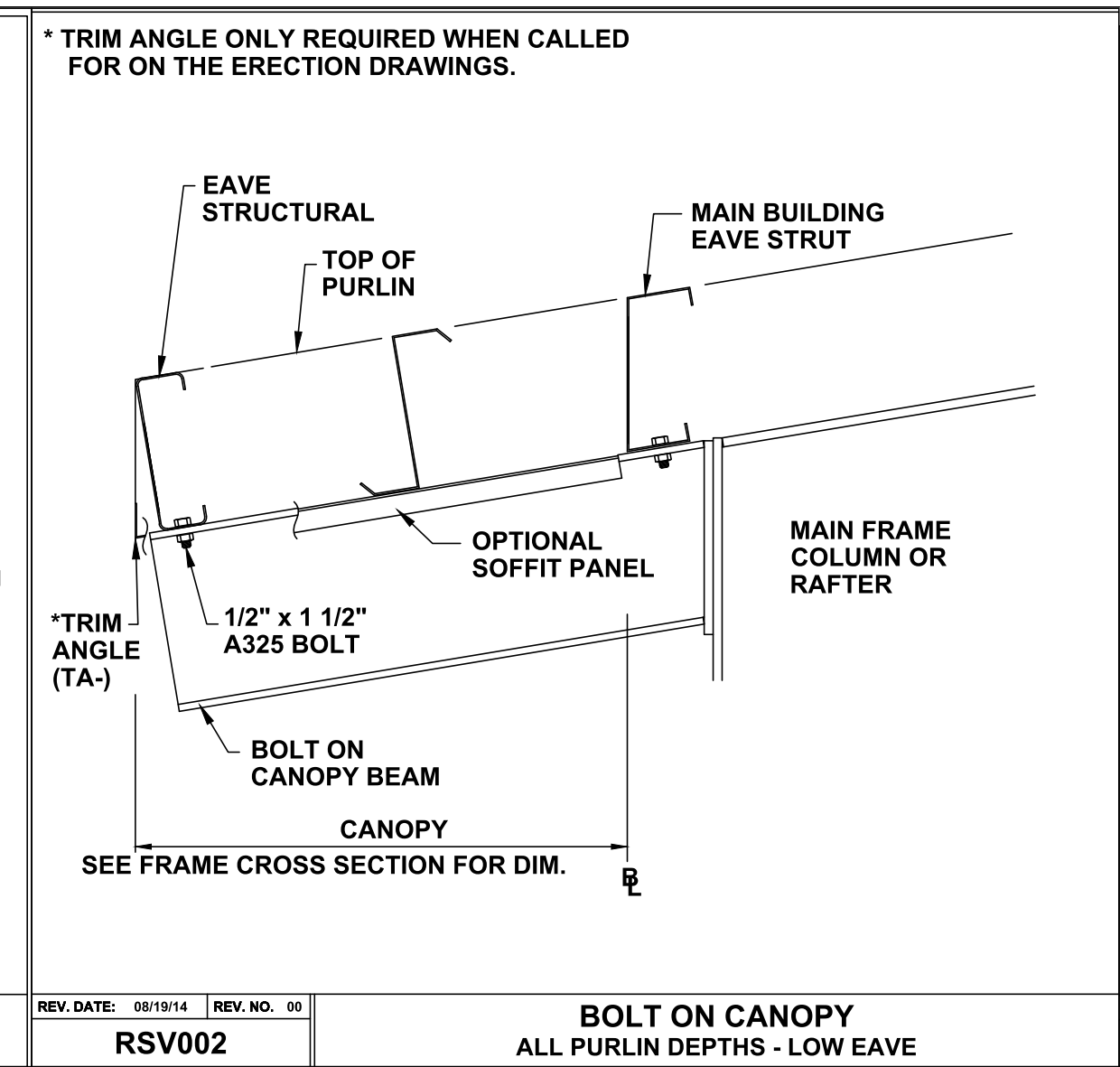
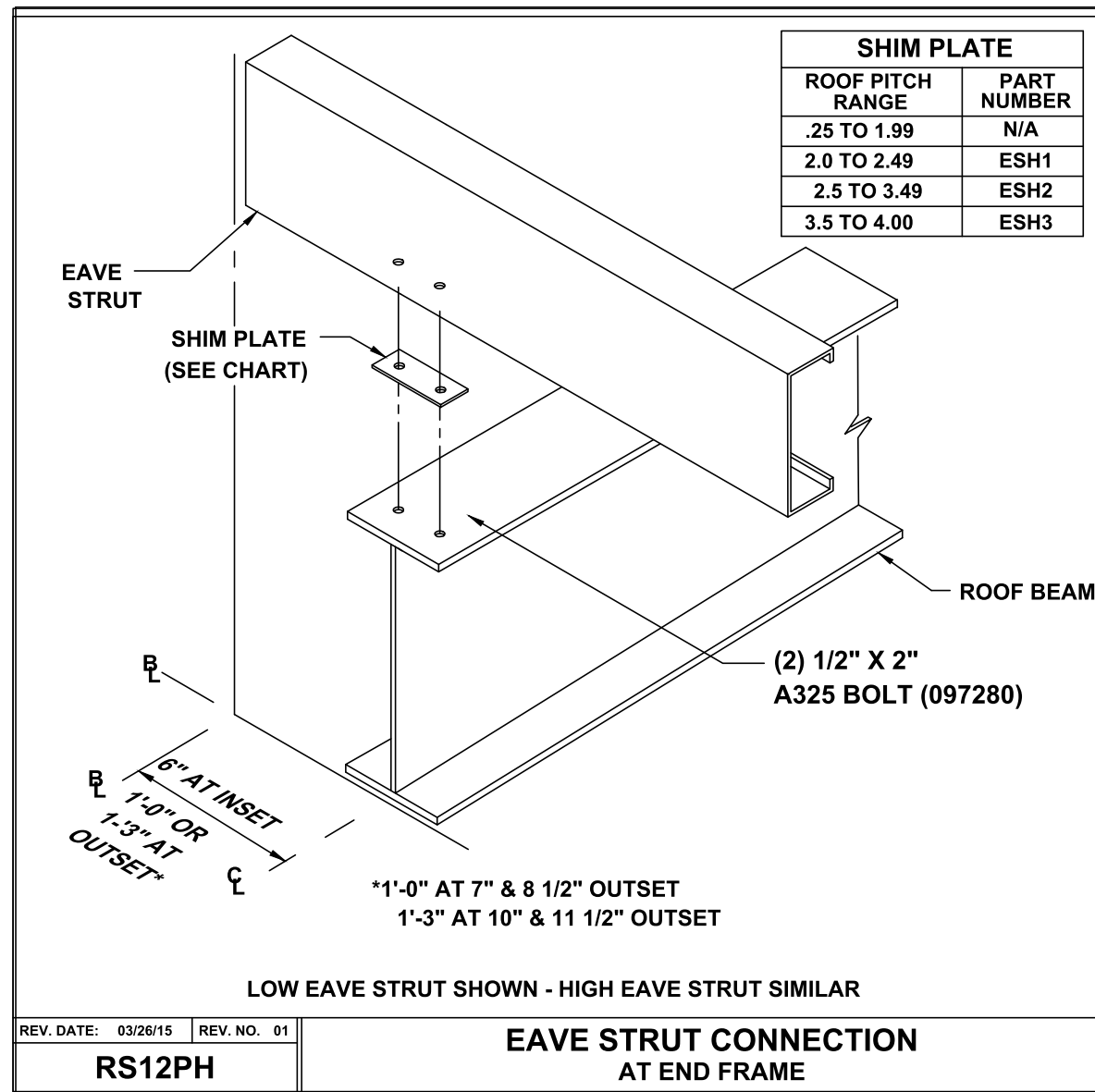
VP BUILDINGS
 VARCO PRUDEN
 A BlueScope Steel Company
 VPC VERSION: 24.1.0

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 STRUCTURAL ENGINEERS
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SEAL 047190
 ALAN M. JUNGNITSCH
 ENGINEER

07/29/2024
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998



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REV	DATE	BY	DESCRIPTION
D			VP Buildings 3200 Players Club Circle Memphis TN 38125

VP Buildings		ROOF SECONDARY SED'S (c)	
BUILDER	Lemartec Corporation	BUILDER	Lemartec Corporation
CUSTOMER	Duke Energy	CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina	LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center	PROJECT	Duke Energy Dunn Operations Center
BUILDERS FOR	23068 - Ops	BUILDERS FOR	23068 - Ops
NTS		NTS	
4/5/2024 SEDSheet 15:06:57		4/5/2024 SEDSheet 15:06:57	

VP BUILDINGS
VARCO PRUDEN

A BlueScope Steel Company
VPC VERSION: 24.1.0

JOBNO
23-016001-01

DATE
4/29/2024

DRAWN/CHECK
AMD CLS

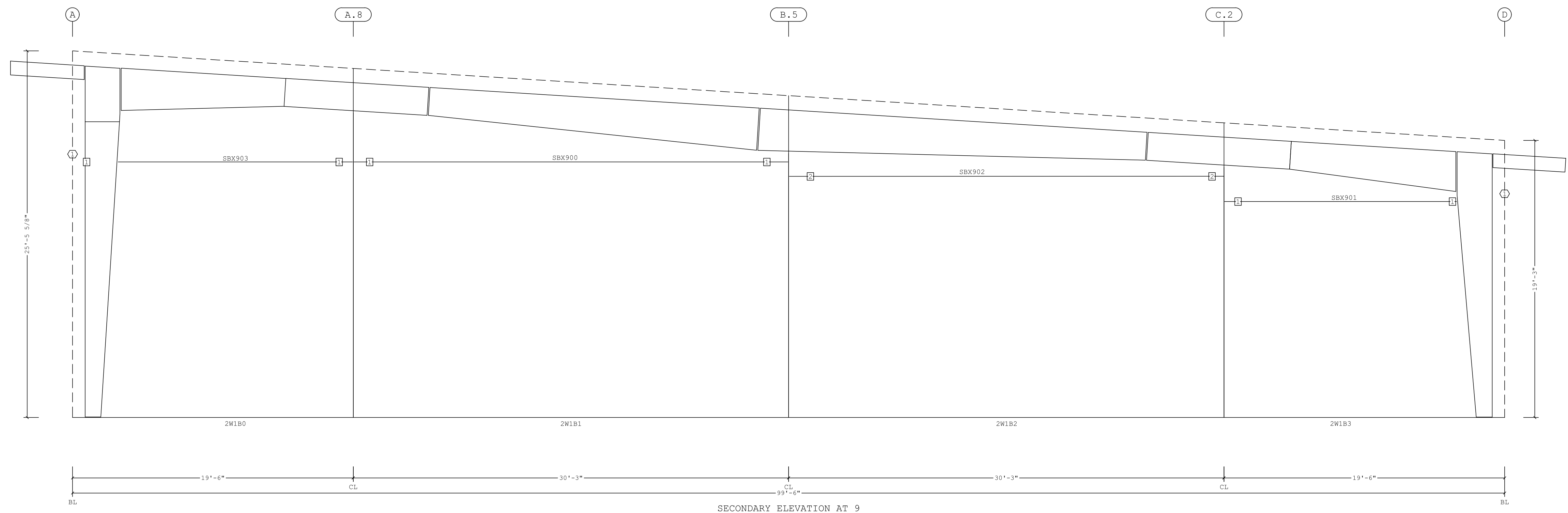
PAGE
19

FILENAME: Duke Energy - Ops

a division of BlueScope Buildings North America, Inc.

Part	Width	Thick.	Webthk	Depth1	Approx. Lgth
SBX903	6"	.2500	.1345	9"	16'-3 7/16"
SBX900	5"	.1345	.1345	9"	30'-1 7/8"
SBX902	8"	.2500	.1345	1'-2"	30'-2 7/16"
SBX901	5"	.2500	.1345	9"	16'-1 3/8"

Rod, Strut, and Misc. Connection Bolts						
I	Qty	Grade	Bolt Diam.	Bolt Length	PartNo	Washer
d						
1	2	A325	3/4"	2 1/2"	0097284	
2	3	A325	3/4"	2 1/2"	0097284	



SECONDARY ELEVATION AT 9



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07/29/2024
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 NORTH CAROLINA REGISTERED ENGINEERING
 FIRM F-0998

FOR CONSTRUCTION

1 GFA400
 Part Mark Key

Shape Name = OPERATIONS, Wall = 1

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VP Buildings				SECONDARY ELEVATION AT 9 (a)			
3200 Players Club Circle Memphis TN 38125							
REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation		
				CUSTOMER	Duke Energy		
				LOCATION	Dunn, North Carolina		
				PROJECT	Duke Energy Dunn Operations Center		
				BUILDERS PO#	23068 - Ops		
NTS							
						JOBNO 23-016001-01 DATE 4/29/2024 DRAWN/CHECK AMD CLS PAGE 20	
				A BlueScope Steel Company VPC VERSION: 24.1.0		a division of BlueScope Buildings North America, Inc.	

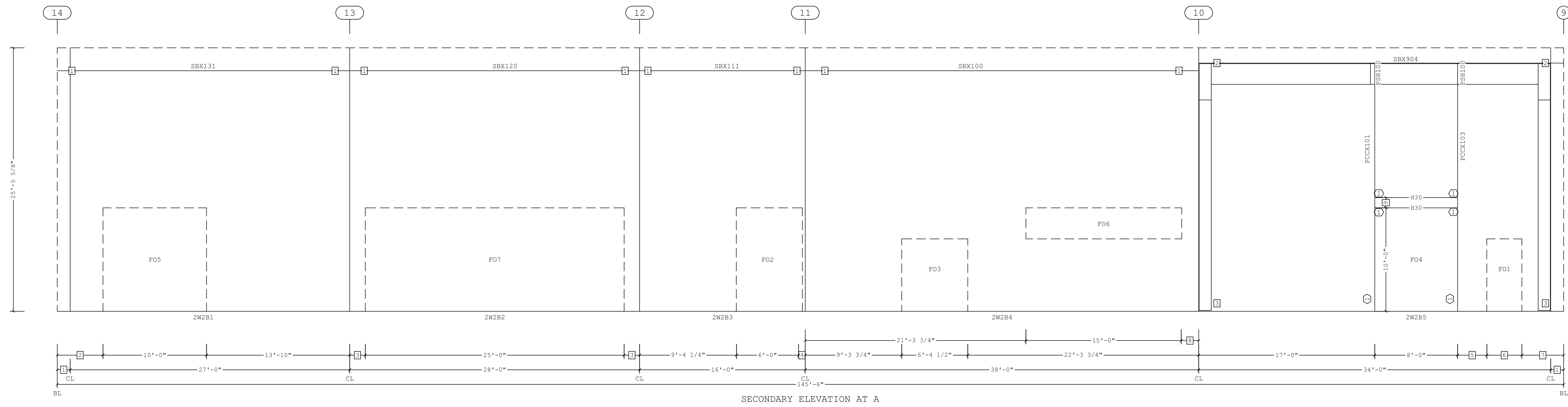
MODIFIED IN AUTOCAD

Mark	Part	Thick.	Depth	Lap	Detail
H30	00110JS0711417	0.0600	10"		WS20F9

Part	Width	Thick.	Webthk	Depth1	Approx. Lgth
SBX131	8"	.2500	.1345	9"	28'-2 7/16"
SBX120	8"	.2500	.1345	11"	27'-10 13/16"
SBX111	5"	.1345	.1345	10"	15'-10 13/16"
SBX100	10"	.3750	.1345	9"	37'-10 13/16"
PCCX101	C10X15.3			10"	24'-0"
PCCX103	C10X15.3			10"	24'-0"
SBX904	8"	.2500	.1345	1'-2"	35'-2 3/8"

Id	Width	Height	Sill Ht.	Frame	To	Dimen.	Description
FO1	3'-4 1/2"	8'-2 1/4"	0'-0"	5	Jamb-L	27'-10"	3080 Walkdoor (TRIM ONLY)
FO2	6'-0"	10'-0"	0'-0"	3	Jamb-L	9'-4 1/4"	"North Entry" 6 x 10 Storefront (TRIM ONLY)
FO3	6'-4 1/2"	8'-2 1/4"	0'-0"	4	Jamb-L	9'-3 3/4"	6080 (TRIM ONLY)
FO4	8'-0"	10'-0"	0'-0"	5	Jamb-L	17'-0"	8x10 RUD (Support by Wind Beam)
FO5	10'-0"	10'-0"	0'-0"	1	Jamb-L	3'-2"	"E" 10 x 10 Storefront (TRIM ONLY)
FO6	15'-0"	3'-0"	7'-0"	4	Jamb-L	21'-3 3/4"	"A" 15 x 3 Window (TRIM ONLY)
FO7	25'-0"	10'-0"	0'-0"	2	Jamb-L	1'-6"	"F" 25 x 10 Storefront (TRIM ONLY)

Id	Qty	Grade	Bolt Diam.	Bolt Length	PartNo
1	2	A325	3/4"	2 1/2"	0097284
2	4	A325	1/2"	2 1/2"	0097280
3	4	A325	3/4"	2 1/2"	0097284



SECONDARY ELEVATION AT A

- 9 1'-0"
- 8 1'-8 1/4"
- 7 4'-0 1/2"
- 6 3'-4 1/2"
- 5 2'-10"
- 4 7 3/4"
- 3 1'-6"
- 2 4'-5"
- 1 1'-3"

- Dimension Key
- 1 PGI
- Part Mark Key

Shape Name = OPERATIONS, Wall = 2



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07/29/2024
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

FOR CONSTRUCTION

1. UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.
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 3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.

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REV	DATE	BY	DESCRIPTION
D			VP Buildings 3200 Players Club Circle Memphis TN 38125
			NTS

VP BUILDINGS		SECONDARY ELEVATION AT A	
BUILDER	Lemartec Corporation	JOBNO	23-016001-01
CUSTOMER	Duke Energy	DATE	4/29/2024
LOCATION	Dunn, North Carolina	DRAWN/CHECK	AMD CLS
PROJECT	Duke Energy Dunn Operations Center	PAGE	21
BUILDERS POC	23068 - Ops		

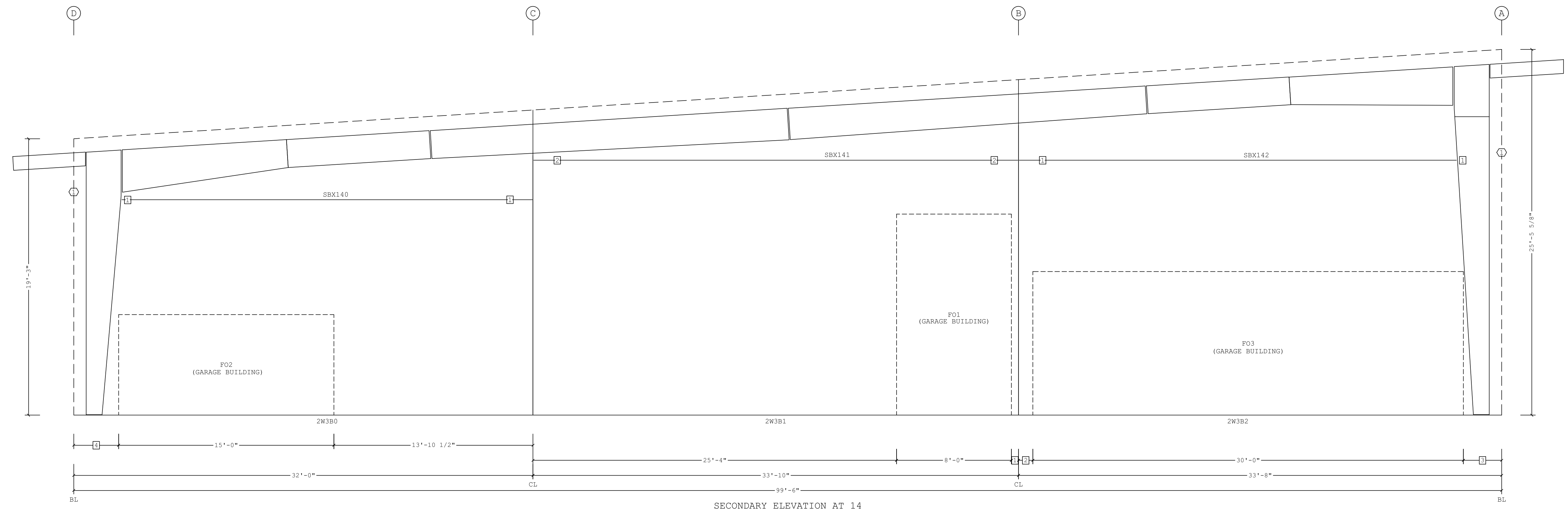


MODIFIED IN AUTOCAD

Part	Width	Thick.	Webthk	Depthl	Approx. Lgth
SBX140	6"	.5000	.1345	1'-4"	28'-7 1/4"
SBX141	8"	.3750	.1345	1'-0"	33'-8 7/8"
SBX142	8"	.3750	.1644	1'-4"	30'-5 5/8"

Framed Opening Locations					
Id	Width	Height	Sill Ht.	Frame	To
F01	8'-0"	14'-0"	0'-0"	1	Jamb-L
F02	15'-0"	7'-0"	3'-0"	BL	Jamb-L
F03	30'-0"	10'-0"	0'-0"	2	Jamb-L

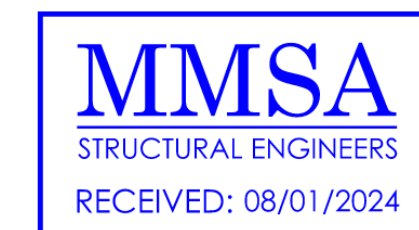
Rod, Strut, and Misc. Connection Bolts						
I	Qty	Grade	Bolt Diam.	Bolt Length	PartNo	Washer
1	3	A325	3/4"	2 1/2"	0097284	
2	2	A325	3/4"	2 1/2"	0097284	



SECONDARY ELEVATION AT 14

- 4 3'-1 1/2"
- 3 2'-8"
- 2 1'-0"
- 1 6"
- Dimension Key
- 1 GFA400
- Part Mark Key

Shape Name = OPERATIONS, Wall = 3



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NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

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VP Buildings				3200 Players Club Circle Memphis TN 38125		SECONDARY ELEVATION AT 14	
REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation		
				CUSTOMER	Duke Energy		
				LOCATION	Dunn, North Carolina		
				PROJECT	Duke Energy Dunn Operations Center		
				BUILDERS FOR	23068 - Ops		
NTS							
						JOBNO 23-016001-01 DATE 4/29/2024 DRAWN/CHECK AMD CLS PAGE 22	

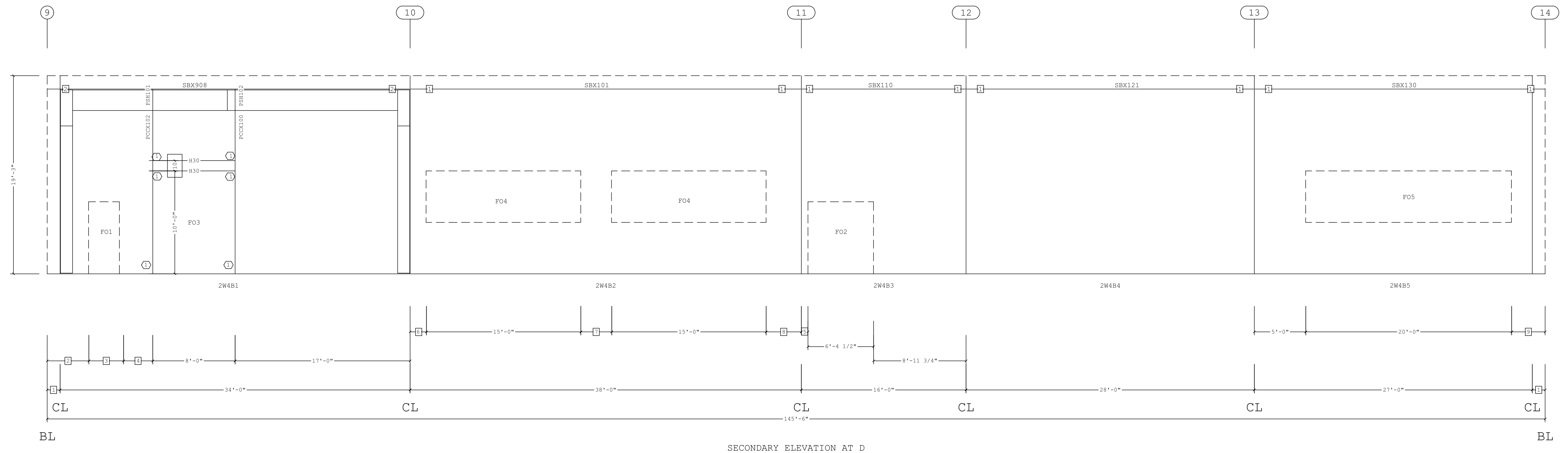
MODIFIED IN AUTOCAD

Mark	Part	Thick.	Depth	Lap	Detail
H30	00110JS0800017	0.0600	10"		WS20F9

Part	Width	Thick.	Webthk	Depth1	Approx. Lgth
PCCX102 C10X15.3				10"	17'-11 1/2"
PCCX100 C10X15.3				10"	17'-11 1/2"
SBX908 8"	.2500	.1345		10"	35'-2 3/8"
SBX101 8"	.3750	.1345		1'-2"	37'-10 3/4"
SBX110 5"	.1345	.1345		9"	15'-10 13/16"
SBX121 8"	.2500	.1345		9"	27'-10 13/16"
SBX130 6"	.3125	.1345		11"	28'-2 3/8"

Id	Width	Height	Sill Ht.	Frame To	Dimen.	Description
F01	3'-4 1/2"	8'-2 1/4"	0'-0"	1 Jamb-L	2'-9 1/2"	3080 Walkdoor (TRIM ONLY)
F02	6'-4 1/2"	8'-2 1/4"	0'-0"	3 Jamb-L	7 3/4"	6080 (TRIM ONLY)
F03	8'-0"	10'-0"	0'-0"	1 Jamb-L	9'-0"	8x10 RUD (Support by Wind Beam)
F04	15'-0"	3'-0"	7'-0"	2 Jamb-L	19'-7"	"A" 15 x 3 Window (TRIM ONLY)
F04	15'-0"	3'-0"	7'-0"	2 Jamb-L	1'-7"	"A" 15 x 3 Window (TRIM ONLY)
F05	20'-0"	7'-0"	3'-0"	5 Jamb-L	5'-0"	"B" 20 x 7 Window (TRIM ONLY)

I	Qty	Grade	Bolt Diam.	Bolt Length	PartNo
1	2	A325	3/4"	2 1/2"	0097284
2	4	A325	1/2"	2 1/2"	0097280
3	4	A325	3/4"	2 1/2"	0097284



SECONDARY ELEVATION AT D

- 10 1'-0"
 - 9 3'-3"
 - 8 3'-5"
 - 7 3'-0"
 - 6 1'-7"
 - 5 7 3/4"
 - 4 2'-10"
 - 3 3'-4 1/2"
 - 2 4'-0 1/2"
 - 1 1'-3"
- Dimension Key
- 1 PG1
- Part Mark Key

Shape Name = OPERATIONS, Wall = 4



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 BLUESCOPE BUILDINGS NORTH AMERICA, INC.
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

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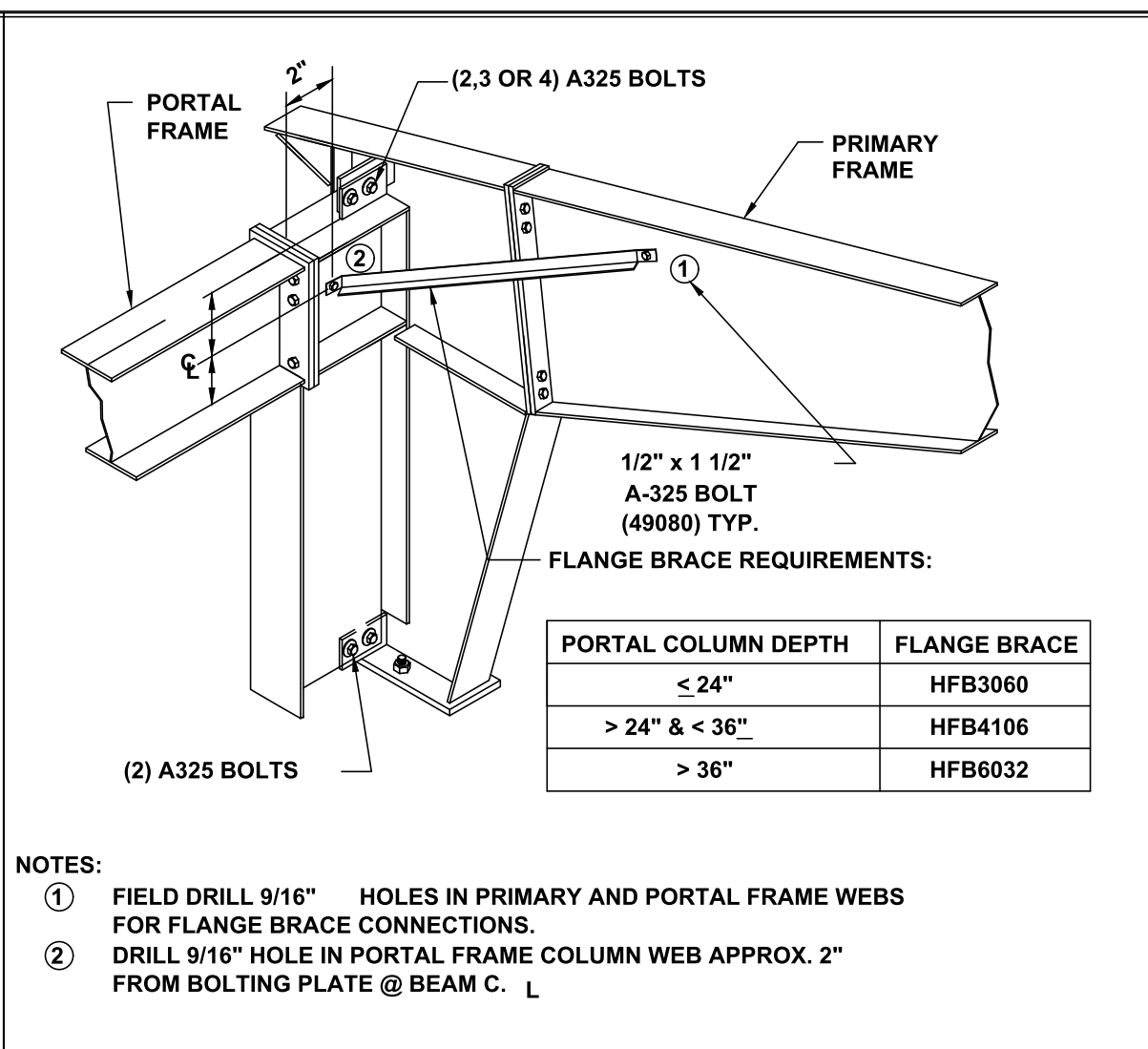
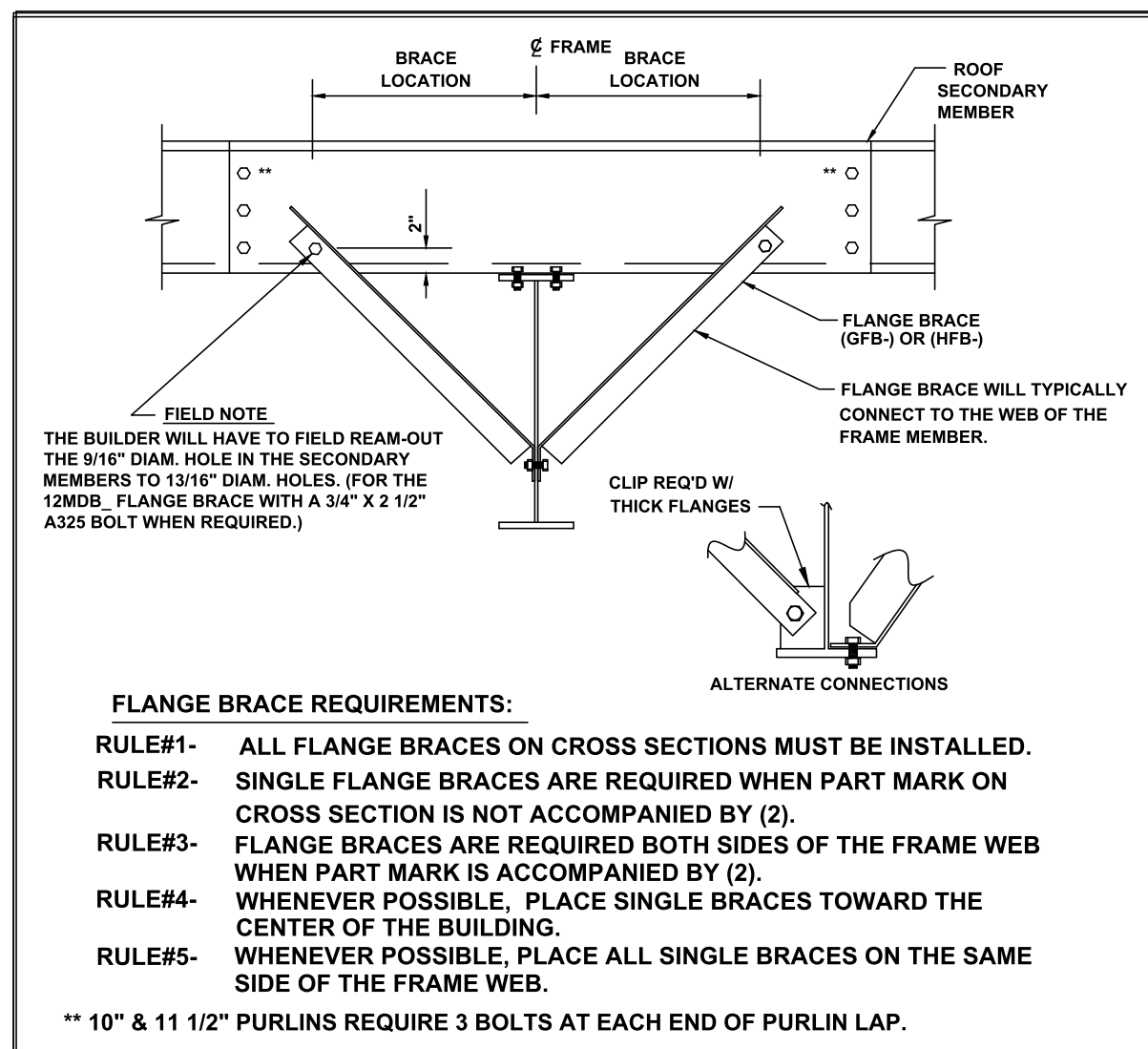
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REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS FOR	JOBNO	DATE	DRAWN/CHECK	CLAS	PAGE
				Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center	23068 - Ops	23-016001-01	4/29/2024	AMD	CLS	23



A BlueScope Steel Company
 VPC VERSION: 24.1.0

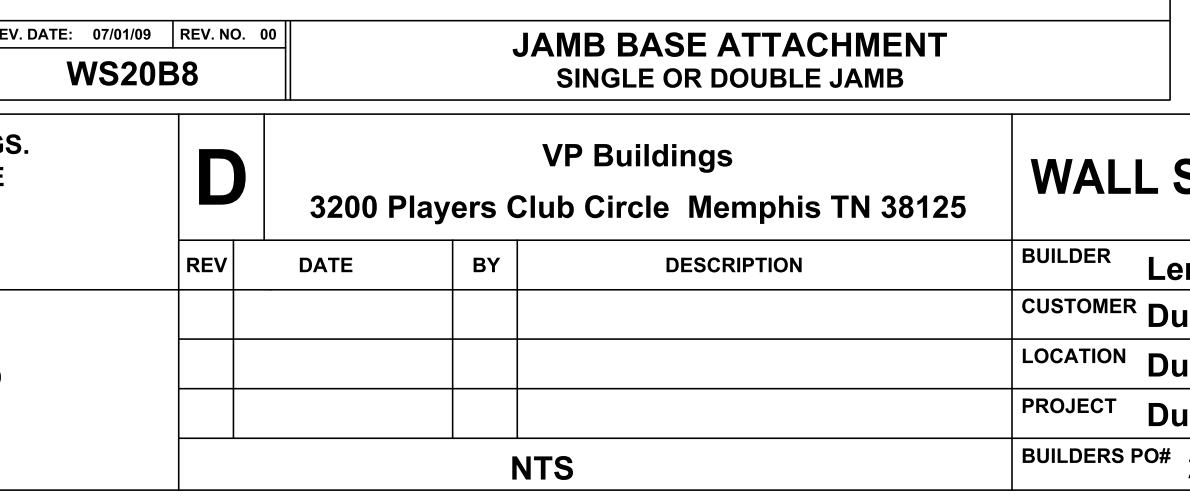
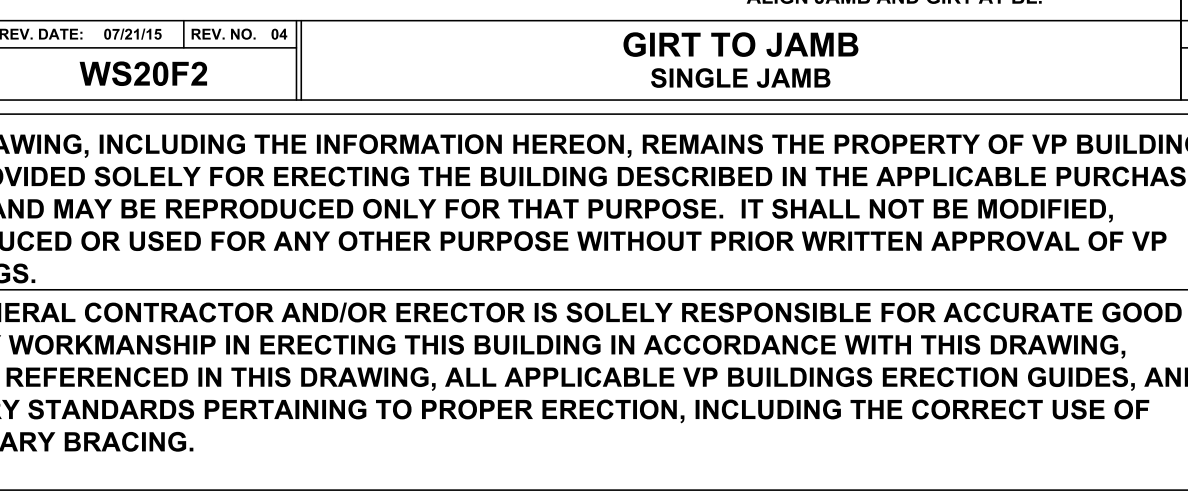
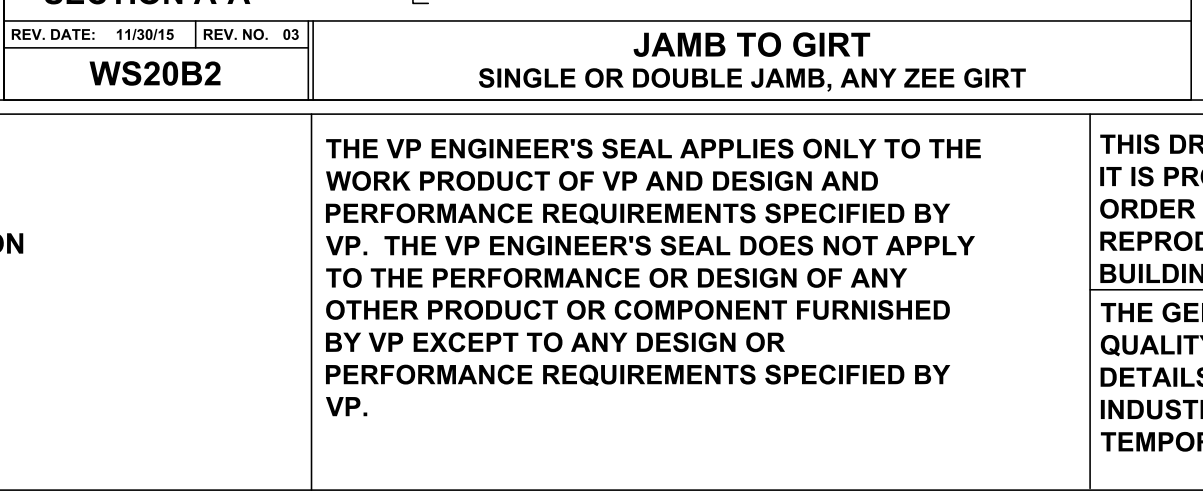
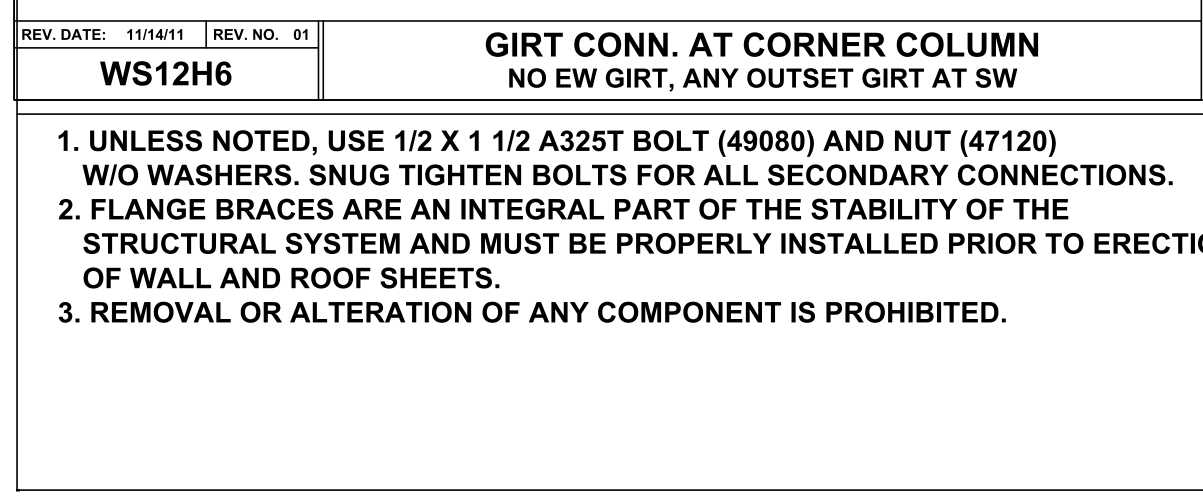
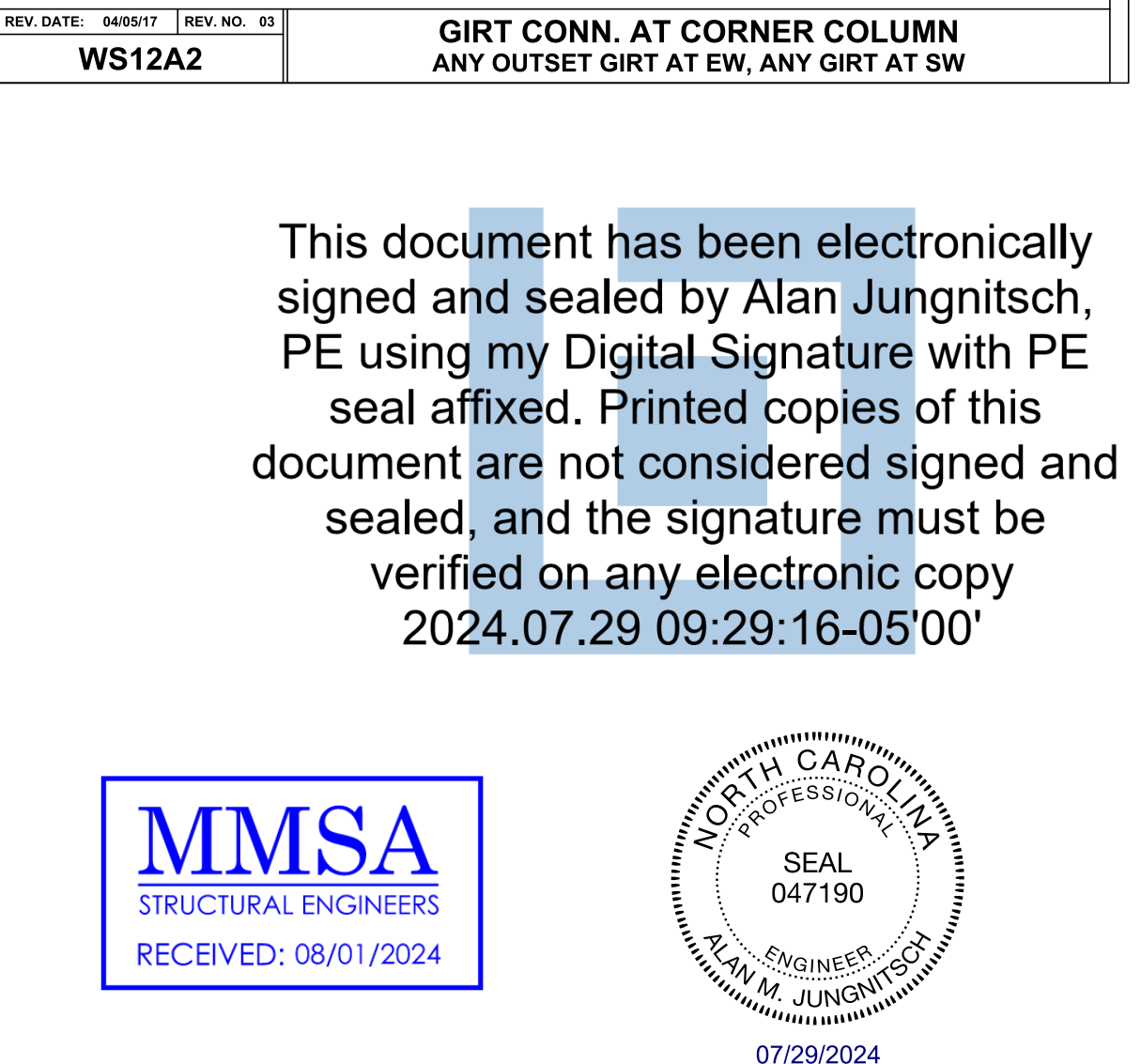
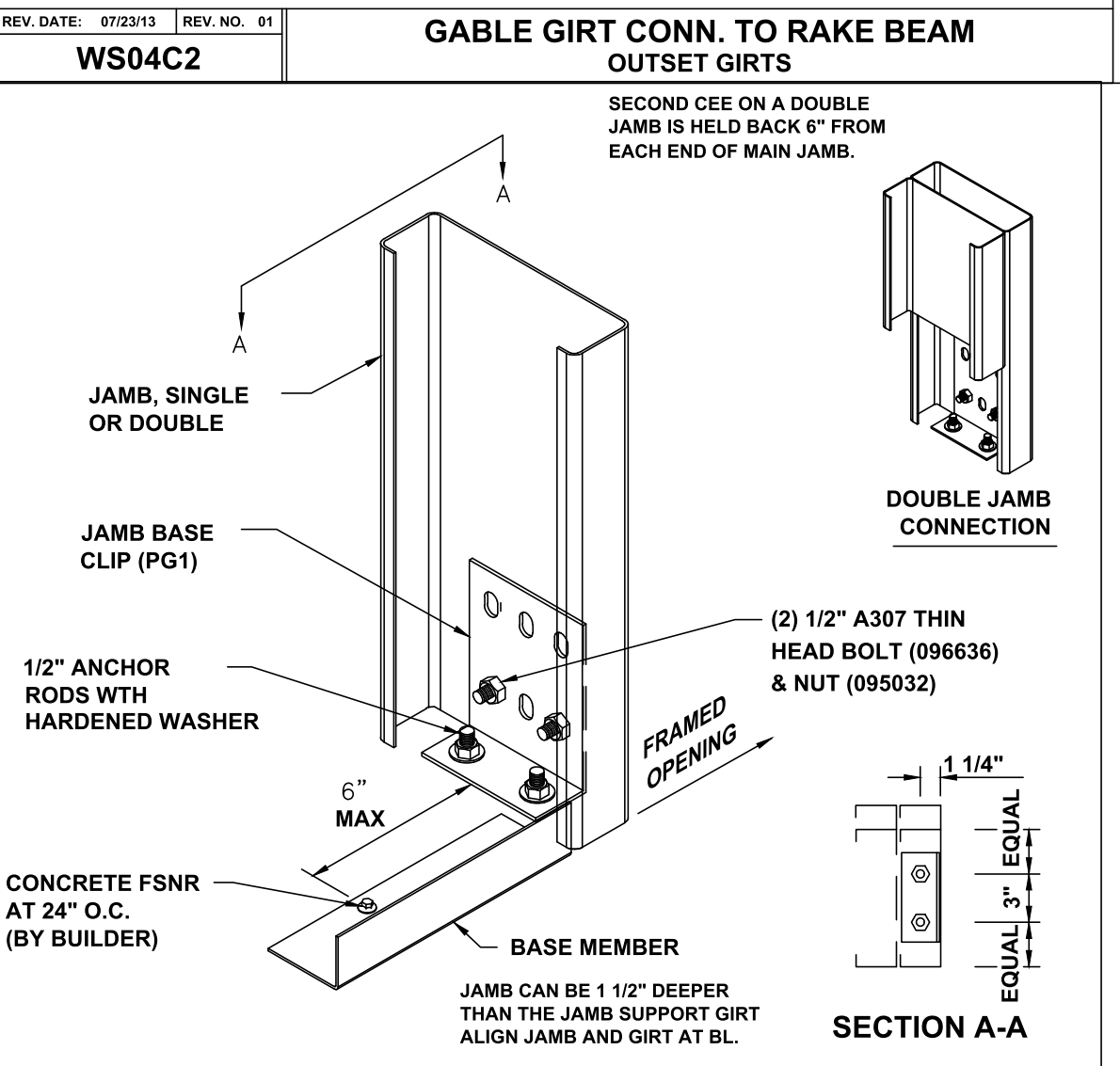
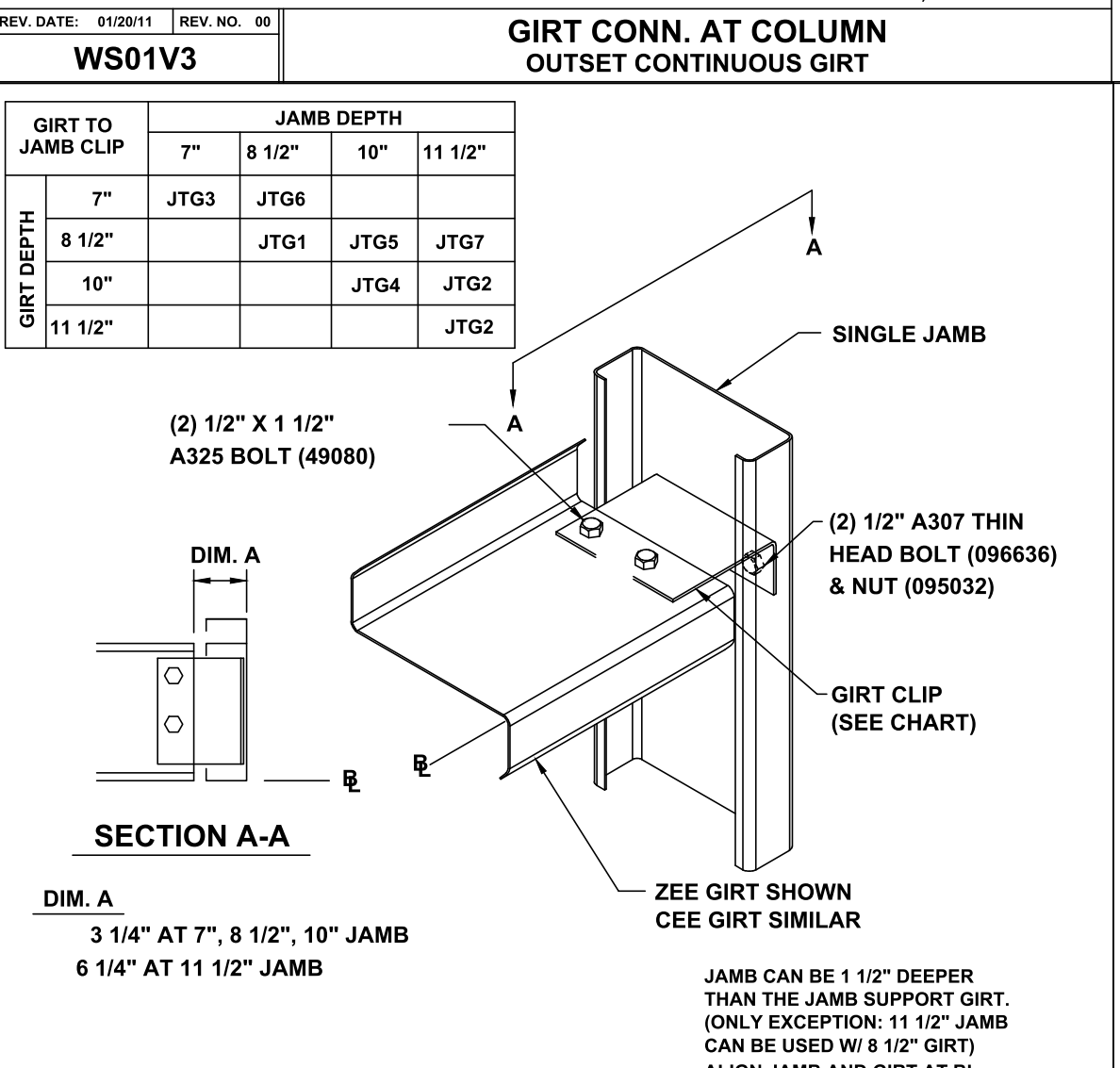
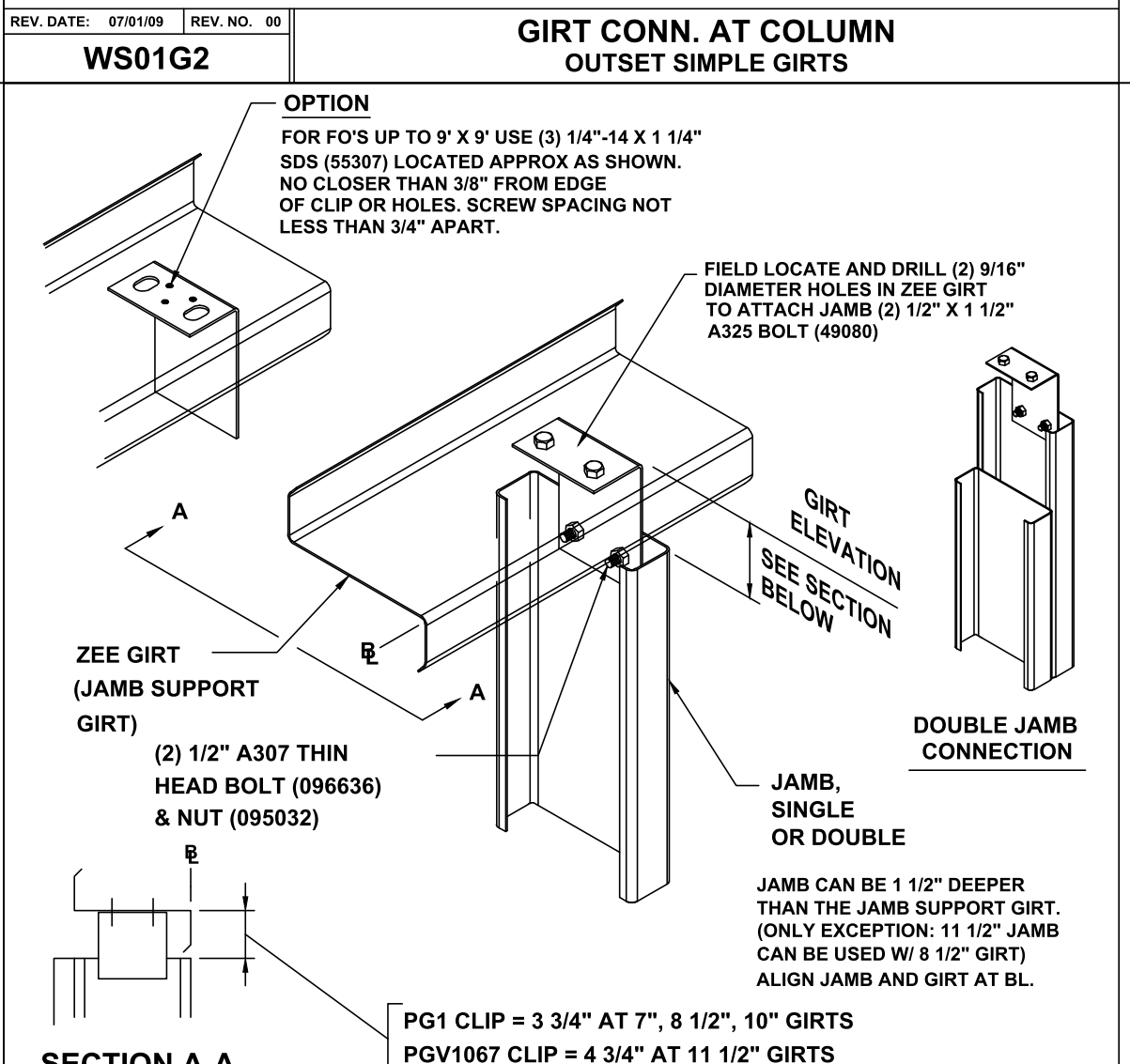
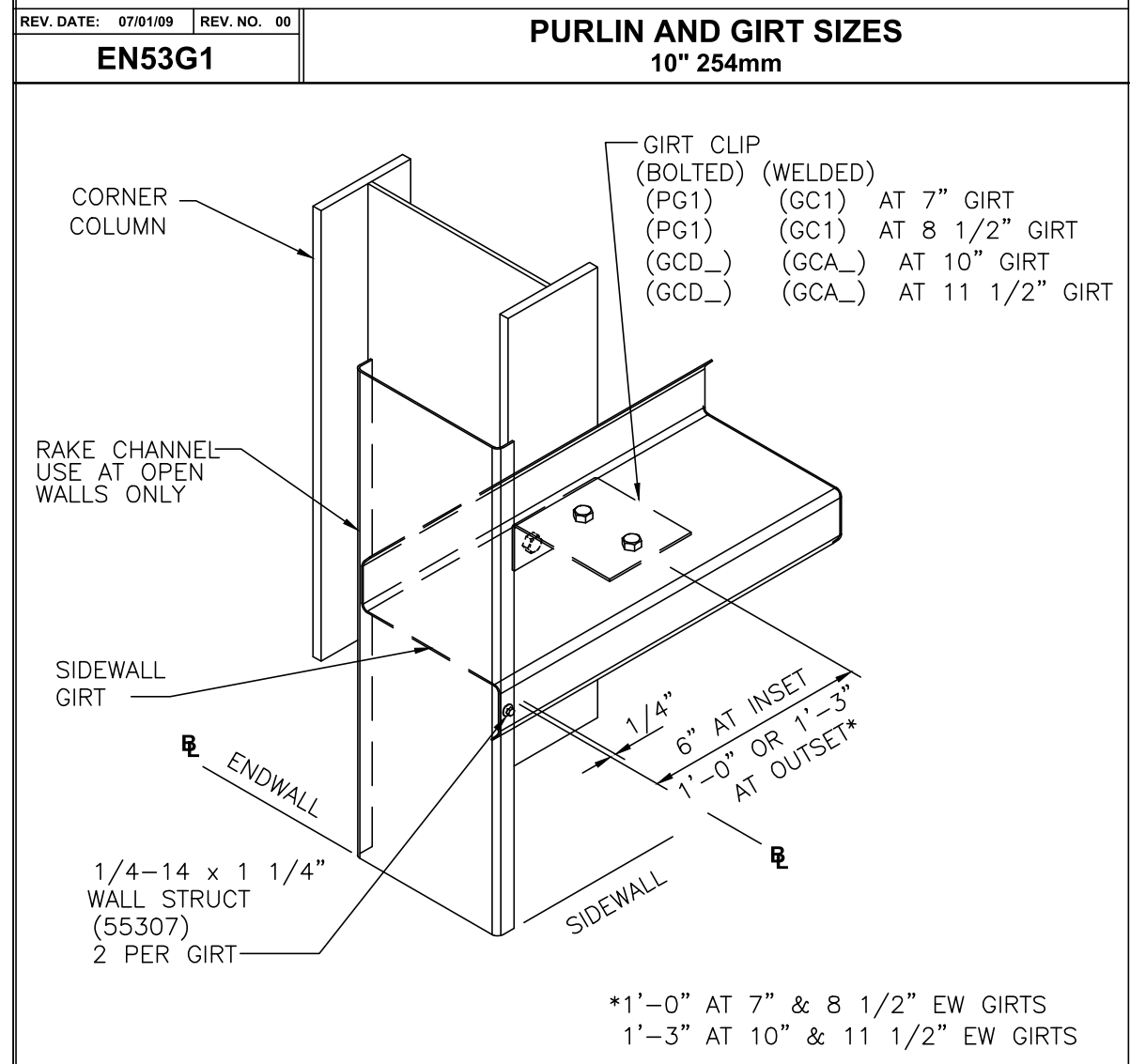
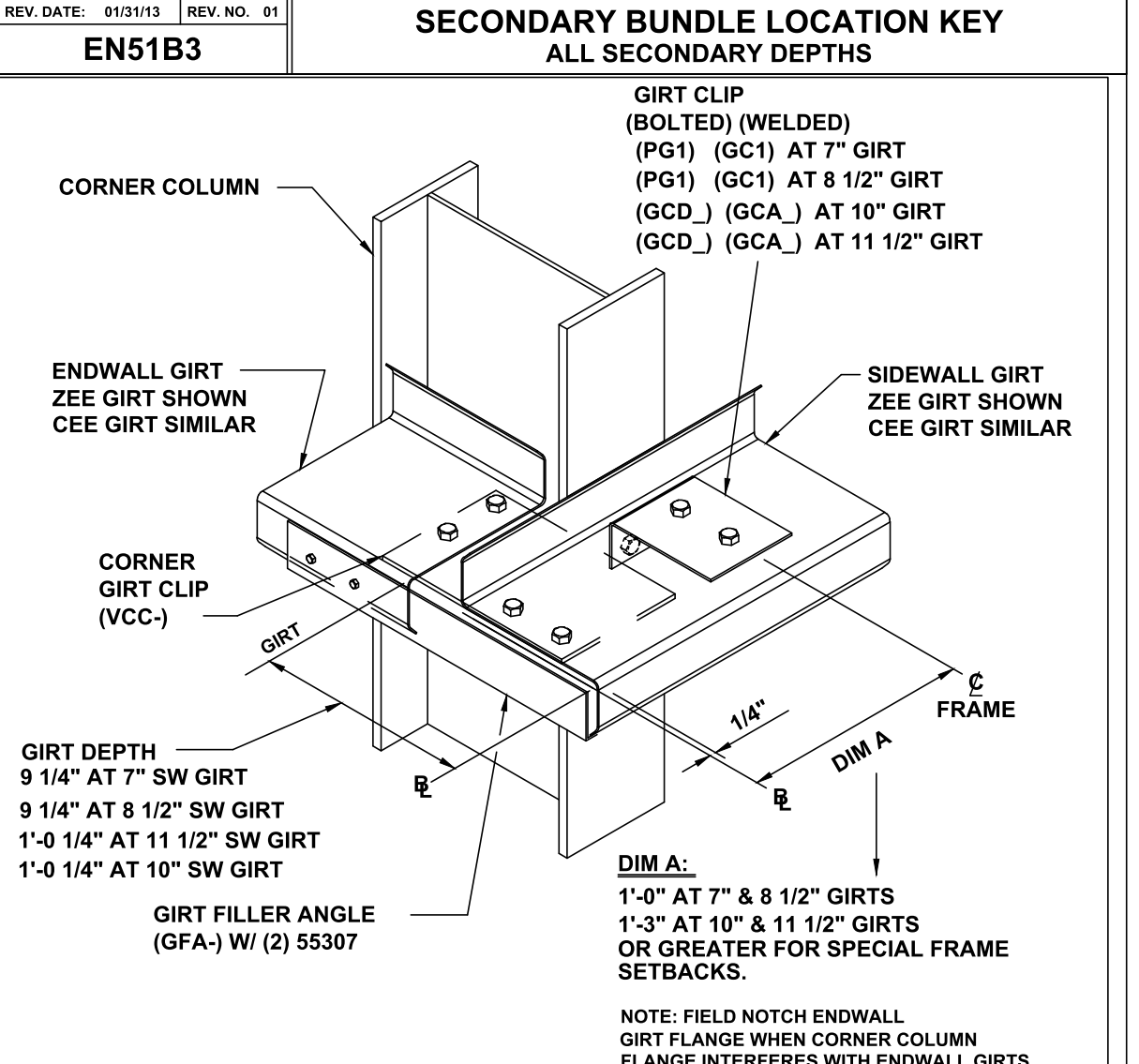
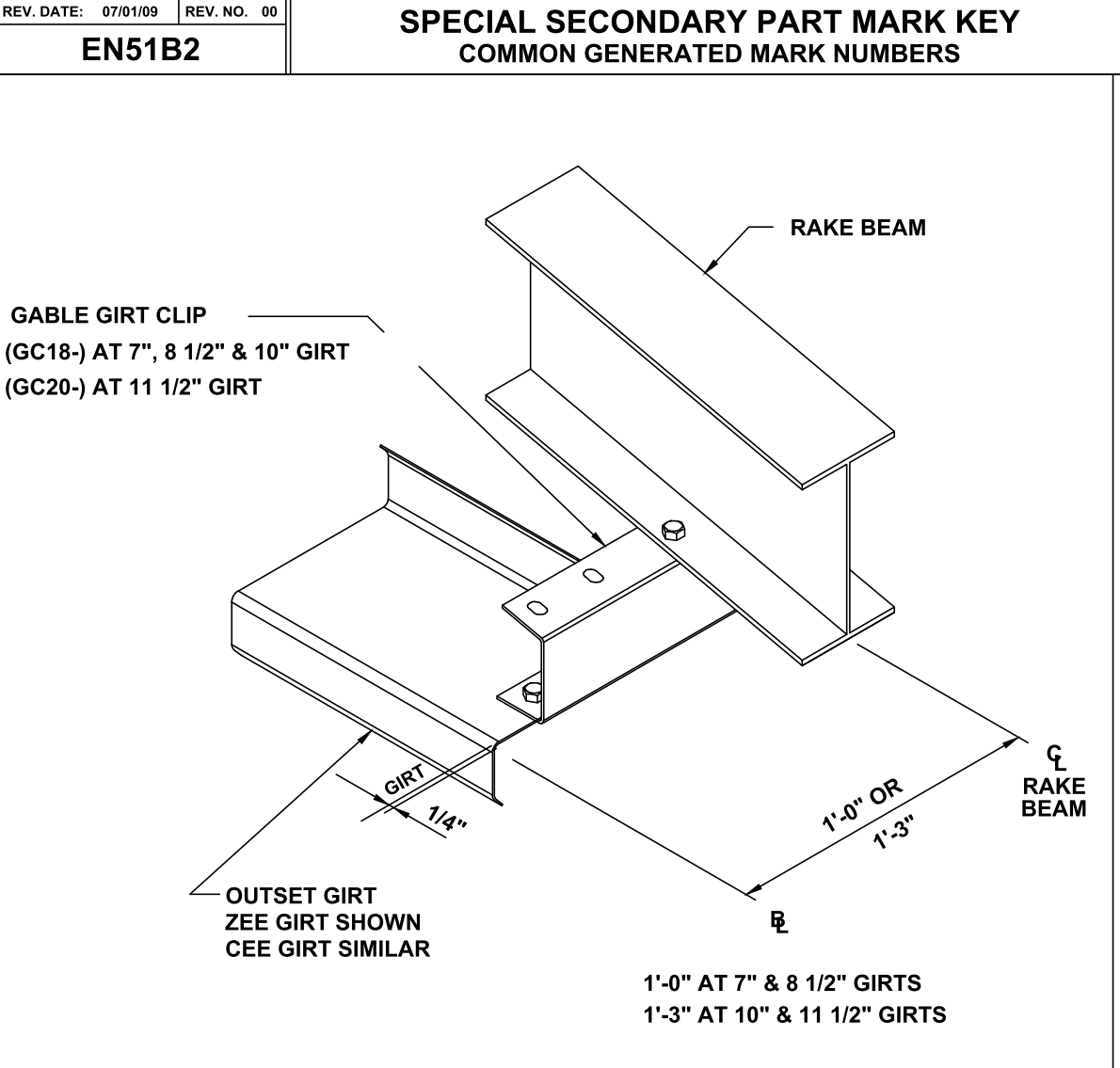
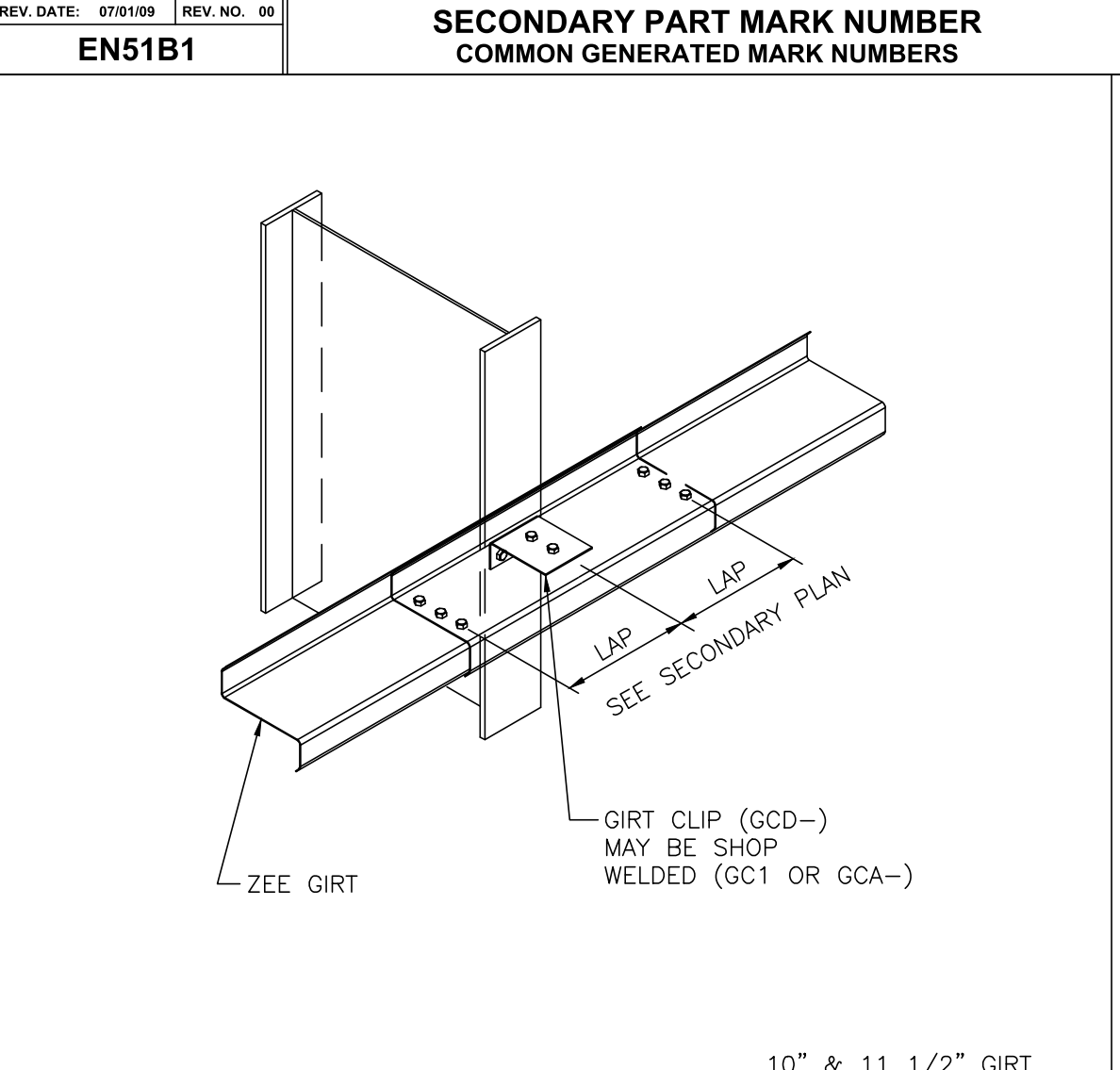
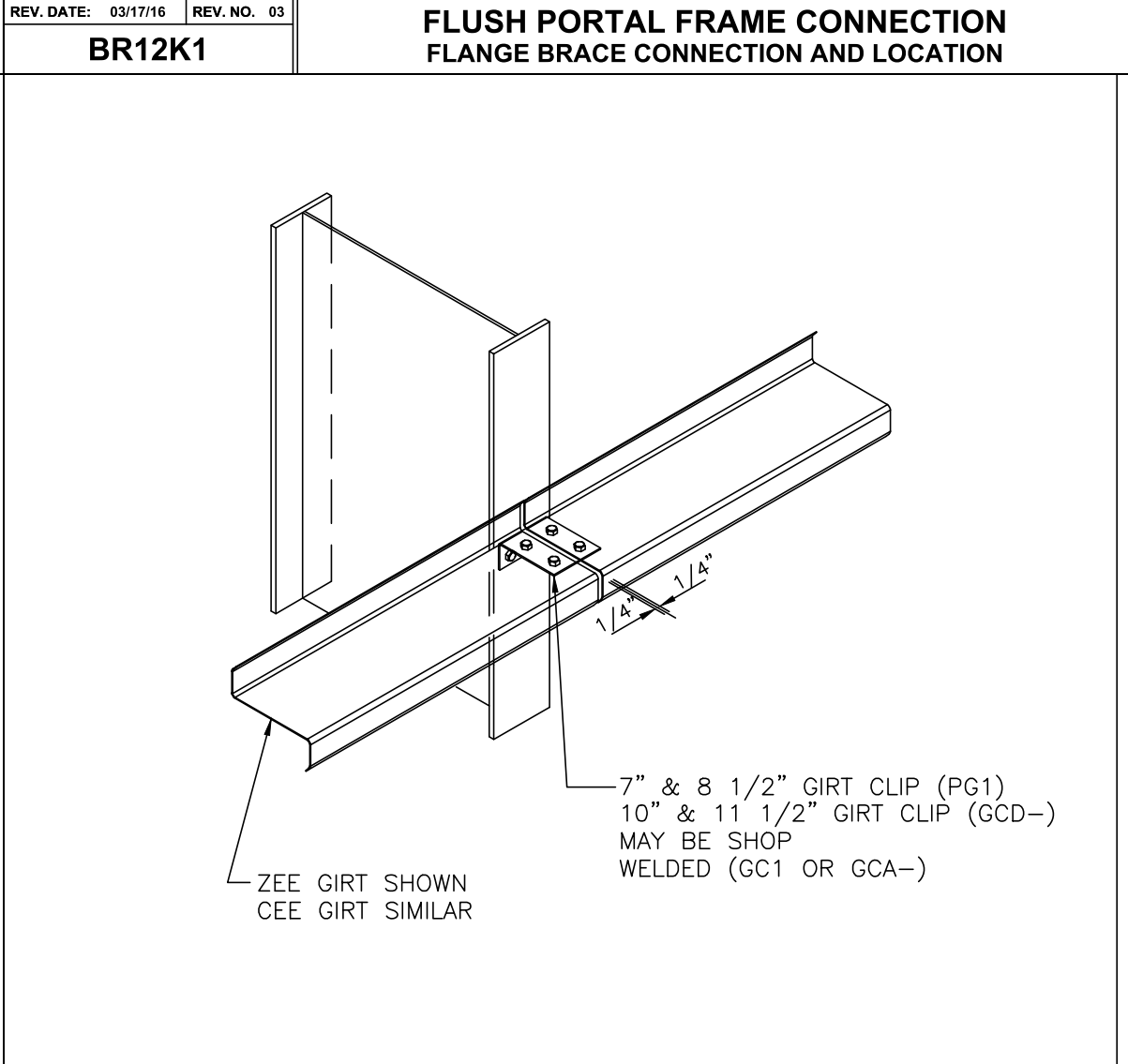
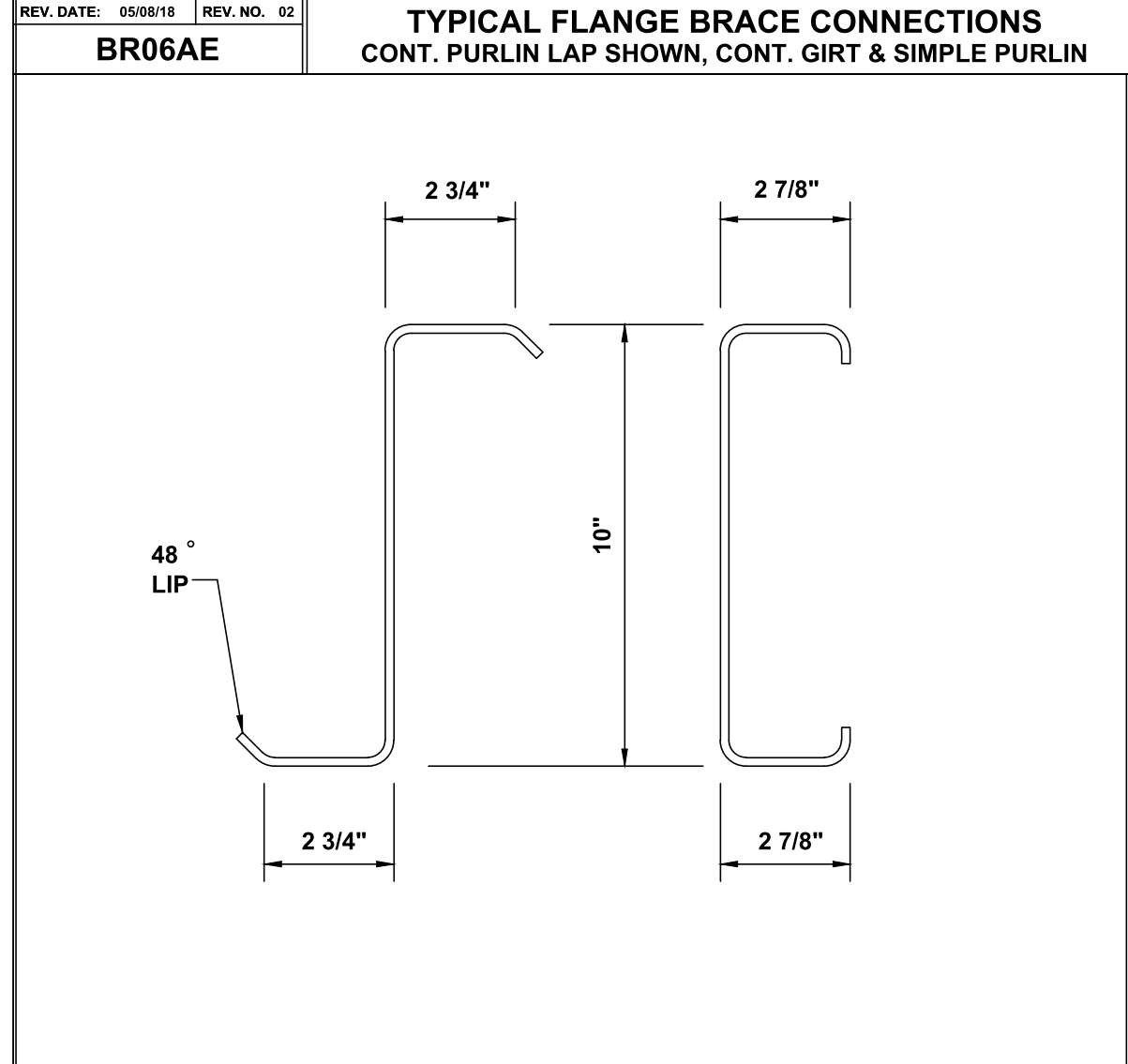
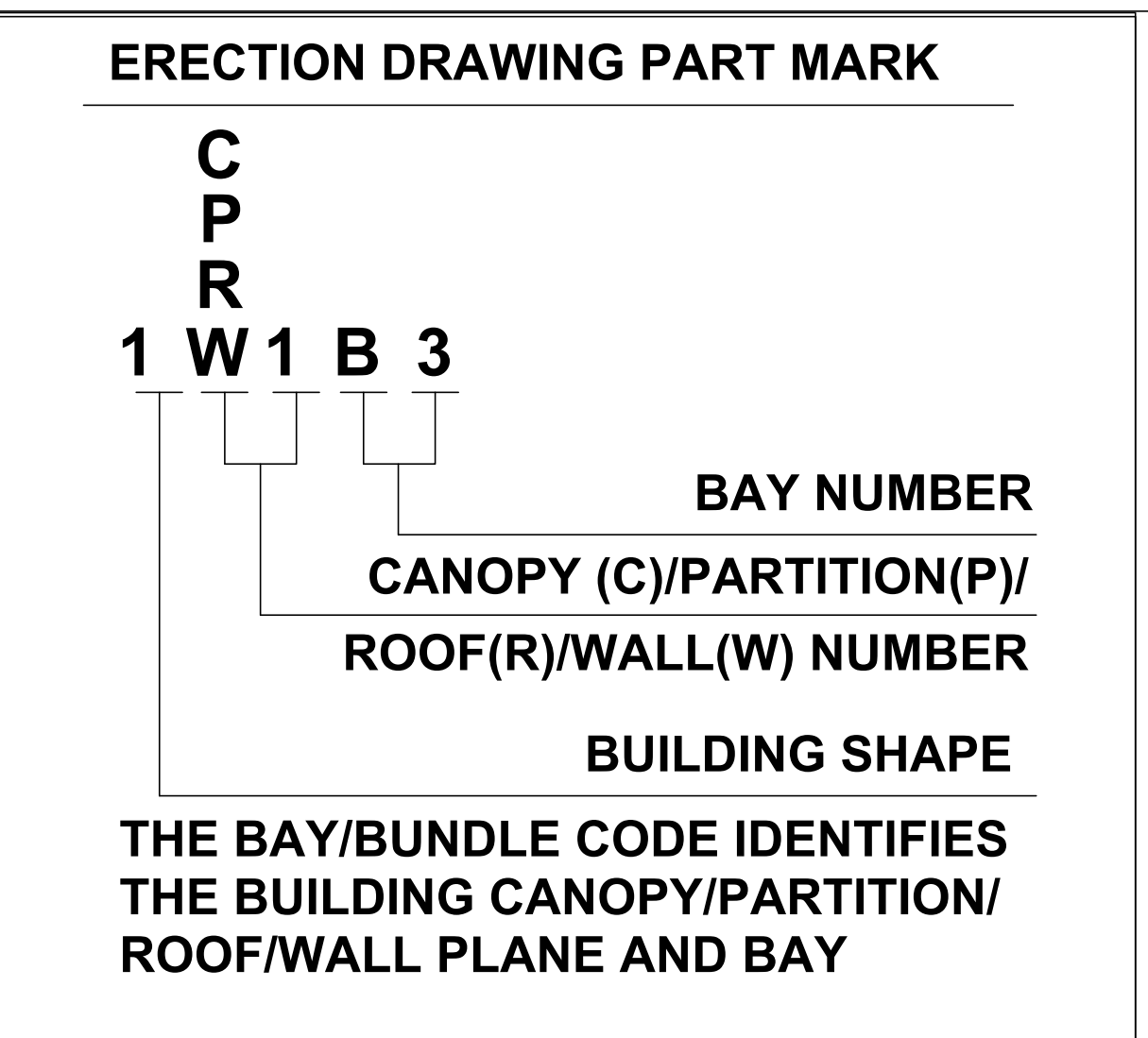


ADJUST. CODES

EIGHTHS	INCHES	LENGTH (FEET)	LENGTH (MILLIMETERS)	SHAPE	DEPTH
07 = 7"				Z = ZEE	11 = 0.113
08 = 8 1/2"				C = CEE	12 = 0.098
10 = 10"				ES = LOW EAVE STRUT	13 = 0.088
11 = 11 1/2"				HS = HIGH EAVE STRUT	14 = 0.079
				BB = BACK TO BACK CEE	15 = 0.073
				FB = FACE TO BACK CEE	16 = 0.068
				FF = FACE TO FACE CEE	17 = 0.060

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EIGHTHS	INCHES	LENGTH (FEET)	LENGTH (MILLIMETERS)	SHAPE	DEPTH
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STRUCTURAL ENGINEERS
RECEIVED: 08/01/2024

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047190
ALAN M. JUNGNITSCH
ENGINEER

07/29/2024
BLUESCOPE BUILDINGS NORTH AMERICA, INC.
NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

REV	DATE	BY	DESCRIPTION

VP BUILDINGS
3200 Players Club Circle Memphis TN 38125

WALL SECONDARY SED'S (a)

BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS PO#
Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center	23068 - Ops

VP BUILDINGS
VARCO PRUDEN
A BlueScope Steel Company
VPC VERSION: 24.1.0

VP BUILDINGS
23-016001-01
DATE: 4/29/2024
DRAWN/CHECK: AMD
PAGE: 24

4/5/2024 SEDSheet 15:07:18
FILENAME: Duke Energy - Ops

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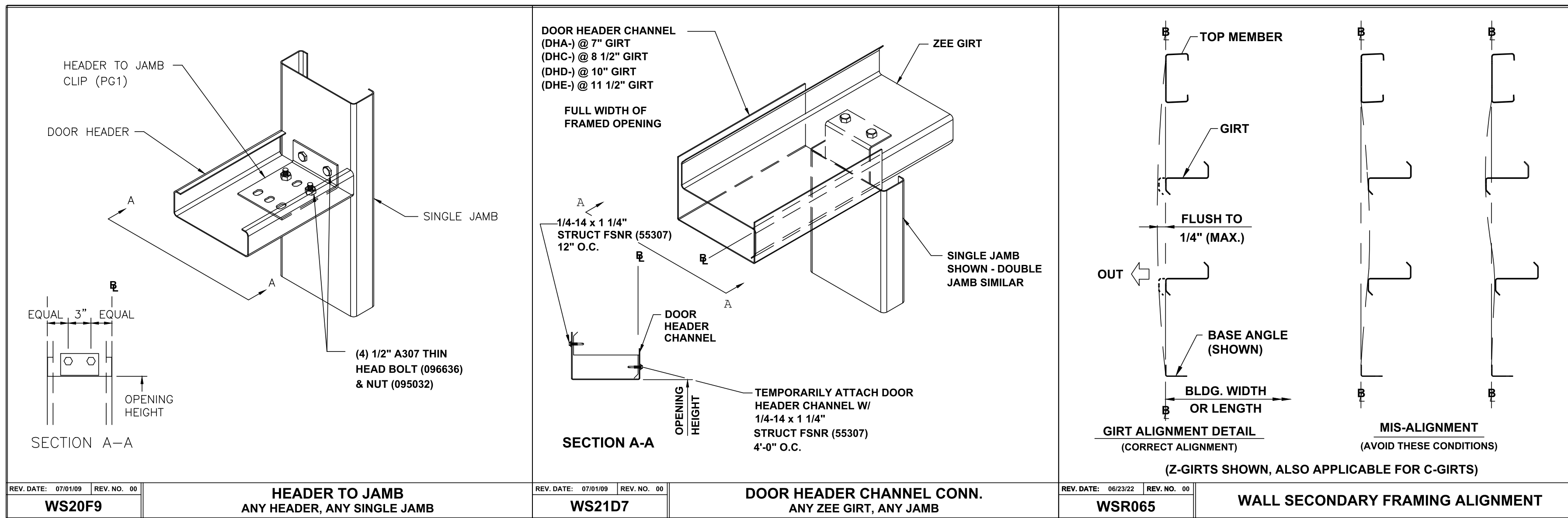
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VP BUILDINGS
3200 Players Club Circle Memphis TN 38125

FOR CONSTRUCTION

VP BUILDINGS
VARCO PRUDEN
A BlueScope Steel Company
VPC VERSION: 24.1.0

VP BUILDINGS
23-016001-01
DATE: 4/29/2024
DRAWN/CHECK: AMD
PAGE: 24



REV. DATE: 07/01/09 REV. NO. 00 WS20F9	HEADER TO JAMB ANY HEADER, ANY SINGLE JAMB	REV. DATE: 07/01/09 REV. NO. 00 WS21D7	DOOR HEADER CHANNEL CONN. ANY ZEE GIRTS, ANY JAMB	REV. DATE: 06/23/22 REV. NO. 00 WSR065	WALL SECONDARY FRAMING ALIGNMENT
--	--	--	---	--	---

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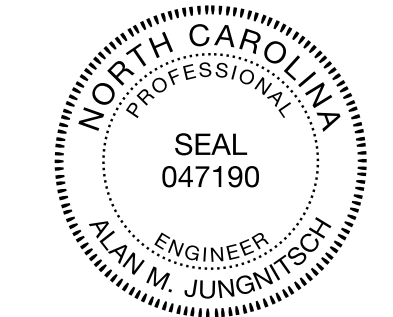
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D	VP Buildings		
	3200 Players Club Circle Memphis TN 38125		
	REV	DATE	BY
NTS			
4/5/2024 SEDSheet 15:07:20			

WALL SECONDARY SED'S (b)		BUILDER Lemartec Corporation	JOBNO 23-016001-01
CUSTOMER Duke Energy		LOCATION Dunn, North Carolina	DATE 4/29/2024
PROJECT Duke Energy Dunn Operations Center		BUILDERS FOR 23068 - Ops	DRAWN/CHECK AMD CLS
VP BUILDINGS VARCO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.0		FILENAME: Duke Energy - Ops	PAGE 25



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 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

FOR CONSTRUCTION

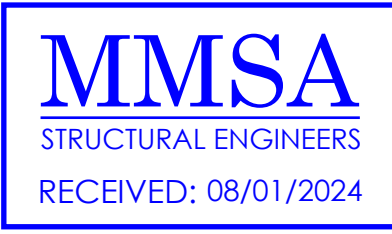
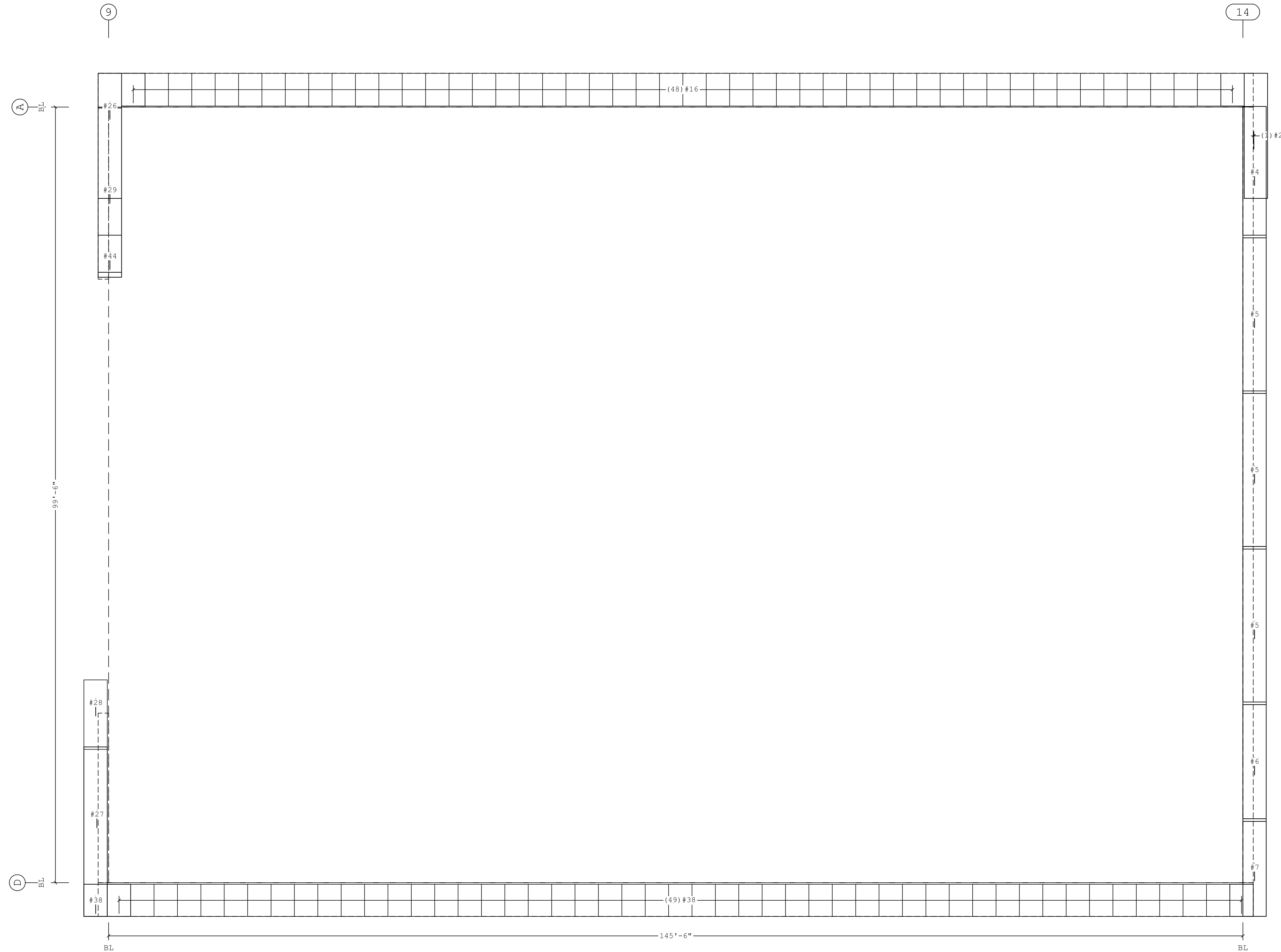


a division of BlueScope Buildings North America, Inc.

Liner/Soffit Schedule

Id	Qty	Type	Length	Gage	OP	Finish	Color	Direction
#29	1	PR	21'-1 3/8"	26	1	K	OW	Left to Right
#44	1	PR	5'-4 3/4"	26	1	K	OW	Left to Right
#27	1	PR	17'-6 3/8"	26	1	K	OW	Left to Right
#28	1	PR	8'-10 7/8"	26	1	K	OW	Left to Right
#4	1	PR	16'-10 3/4"	26	1	K	OW	Left to Right
#5	3	PR	20'-4"	26	1	K	OW	Left to Right
#6	1	PR	15'-4"	26	1	K	OW	Left to Right
#7	1	PR	12'-6 1/2"	26	1	K	OW	Left to Right
#26	3	PR	16'-1"	26	1	K	OW	Left to Right
#16	48	PR	4'-2 1/2"	26	1	K	OW	Left to Right
#38	50	PR	4'-1 5/8"	26	1	K	OW	Left to Right

Oper. Code:l=SQ, SQ
 Finish:K=KXL (Kynar)
 Color:OW=Cool Cotton White



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Shape Name = OPERATIONS, Shape = OPERATIONS, Shape = OPERATIONS

FOR CONSTRUCTION

1. PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS TO STRUCTURAL BEAMS
 2. STEEL PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.
 3. DUE TO MANUFACTURING LIMITATIONS SHORT PANELS MAY REQUIRE FIELD CUTTING. SEE THE COVERING SCHEDULE FOR CUT LENGTHS.
 4. SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION.

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REV	DATE	BY	DESCRIPTION
D			VP Buildings 3200 Players Club Circle Memphis TN 38125
			NTS

ROOF LINER PLAN A	
BUILDER	Lemartec Corporation
CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center - Operations
BUILDERS FOR	23068 - Ops
JOBNO	23-016001-01
DATE	5/1/2024
DRAWN/CHECK	LKH CS
PAGE	26-b

Covering Schedule

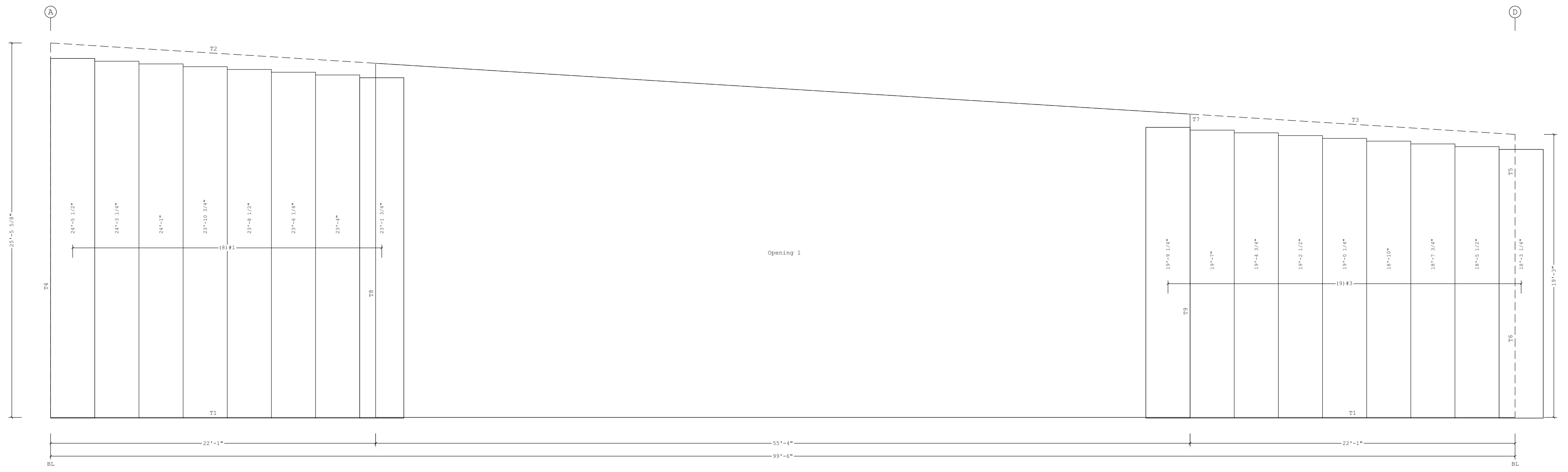
Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Increment	Direction
#1	8	W	24'-5 1/2"	26	1	K	GZ	-2 1/4"	Left to Right
#3	9	W	19'-9 1/4"	26	1	K	GZ	-2 1/4"	Left to Right

Oper. Code:l=SQ, SQ
Finish:K=KXL (Kynar)
Color:GZ=Cool Zinc Gray

Trim Schedule

Id	Parts
T1	(1.5)BG3415, (3)BT10
T2	(2)GAC1024, (2)NLTB10, NLTB05, (10)CPA2102R, CPA1015R, 1CP1003R
T3	(2)GAC1024, (2)NLTB10, NLTB05, 1CP2041R, (3)CPA2045R, (4)CPA2102R
T4	CT16, CT10
T5	CT05
T6	CT16
T7	RFR10-130, RKF10, RSB10, RSC10
T8	ICF20, ICF05
T9	ICF16, ICF05

Color	Details
Cool Zinc Gray	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WCO4G1, WS27B2, WS27D2, WSR065
Cool Cotton White	RC80E2, RC80E3, RC80G1, RC80G4, WC12A1
Cool Cotton White	RC80E2, RC80E3, RC80G1, RC80G4, WC12A1
Cool Zinc Gray	WC20A1
Cool Cotton White	WC20A1
Cool Zinc Gray	WC20A1
Cool Cotton White	RC10A2, RC30A1, RS10L5
Cool Zinc Gray	WC21A1
Cool Zinc Gray	WC21A1



Fastener Schedule

Part	Description
0097584-116	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097581-116	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer



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Shape Name = OPERATIONS, Wall = 1

FOR CONSTRUCTION

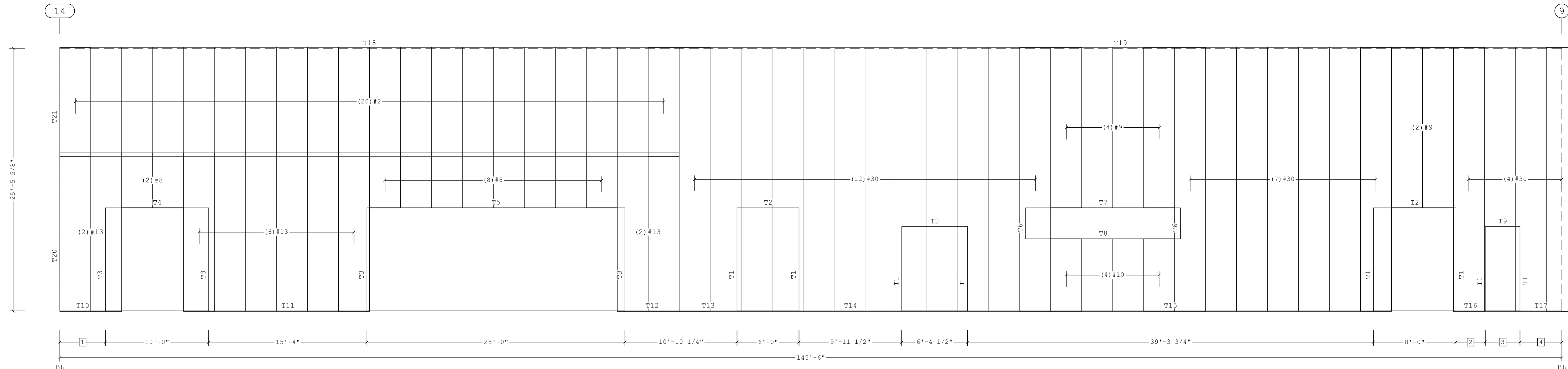
1. PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS TO STRUCTURAL BEAMS 2. STEEL PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED. 3. DUE TO MANUFACTURING LIMITATIONS SHORT PANELS MAY REQUIRE FIELD CUTTING. SEE THE COVERING SCHEDULE FOR CUT LENGTHS. 4. SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION.	THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.	THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF VP BUILDINGS. THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING. DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.	D VP Buildings 3200 Players Club Circle Memphis TN 38125	COVERING ELEVATION AT 9																																				
				<table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV	DATE	BY	DESCRIPTION																	<table border="1"> <tr> <td>BUILDER</td> <td>Lemartec Corporation</td> </tr> <tr> <td>CUSTOMER</td> <td>Duke Energy</td> </tr> <tr> <td>LOCATION</td> <td>Dunn, North Carolina</td> </tr> <tr> <td>PROJECT</td> <td>Duke Energy Dunn Operations Center - Operations</td> </tr> <tr> <td>BUILDERS PO#</td> <td>23068 - Ops</td> </tr> </table>	BUILDER	Lemartec Corporation	CUSTOMER	Duke Energy	LOCATION	Dunn, North Carolina	PROJECT	Duke Energy Dunn Operations Center - Operations	BUILDERS PO#	23068 - Ops	<table border="1"> <tr> <td>JOBNO</td> <td>23-016001-01</td> </tr> <tr> <td>DATE</td> <td>5/1/2024</td> </tr> <tr> <td>DRAWN/CHECK</td> <td>LKH CS</td> </tr> <tr> <td>PAGE</td> <td>27</td> </tr> </table>	JOBNO	23-016001-01	DATE	5/1/2024
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Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Direction
#30	23	W	25'-7 1/4"	26	1	K	GZ	Left to Right
#10	4	W	7'-0 1/2"	26	1	K	GZ	Left to Right
#9	6	W	15'-6 3/4"	26	1	K	GZ	Left to Right
#2	20	W	10'-6 3/4"	26	1	K	OW	Left to Right
#13	10	W	15'-4 1/2"	26	1	K	CO	Left to Right
#8	10	W	5'-4"	26	1	K	CO	Left to Right

Oper. Code:l=SQ, SQ
 Finish:K=KXL (Kynar)
 Color:GZ=Cool Zinc Gray
 Color:OW=Cool Cotton White
 Color:CO=Cool Cobalt Blue

Id	Parts
T1	DPP10, JT10
T2	DPP10, HTS10
T3	DPP10, JT10
T4	DPP10, HTS10
T5	DPP14, DPP12, HTS14, HTS12
T6	DPP05, JT05
T7	DPP10, DPP05, HTS12, HTS03
T8	TDG910, TDG905
T9	DPP05, HTS05
T10	(0.3)BG3415, BT10
T11	BG3415, (2)BT10
T12	(0.4)BG3415, BT10
T13	(0.4)BG3415, BT10
T14	(0.7)BG3415, BT10
T15	(2.6)BG3415, (4)BT10
T16	(0.2)BG3415, BT10
T17	(0.3)BG3415, BT10
T18	(6)PCA10A
T19	(9)PCA10A
T20	CT16
T21	CT12

Color	Details
Cool Zinc Gray	WC24A1
Cool Zinc Gray	WC24A2
Cool Cobalt Blue	WC24A1
Cool Cobalt Blue	WC24A2
Cool Cobalt Blue	WC24A2
Cool Zinc Gray	WC24A1
Cool Zinc Gray	WC24A2
Cool Zinc Gray	WC24Q4
Cool Zinc Gray	WC24A2
Cool Cobalt Blue	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
Cool Cobalt Blue	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
Cool Cobalt Blue	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
Cool Zinc Gray	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
Cool Zinc Gray	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
Cool Zinc Gray	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
Cool Zinc Gray	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
Cool Zinc Gray	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
Cool Zinc Gray	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
Cool Cotton White	WC11F1, WC11F4
Cool Zinc Gray	WC11F1, WC11F4
Cool Cobalt Blue	WC20A1
Cool Cotton White	WC20A1



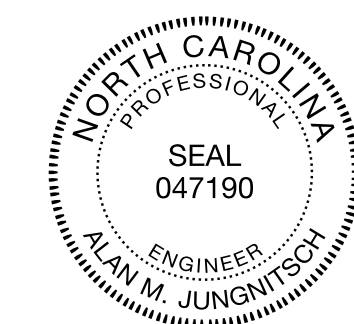
COVERING ELEVATION AT A

- 4 4'-0 1/2"
 - 3 3'-4 1/2"
 - 2 2'-10"
 - 1 4'-5"
- Dimension Key

Part	Description
0097584-116	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097581-116	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer
0097584-102	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097581-102	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer
0097584-115	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097581-115	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer

Shape Name = OPERATIONS, Wall = 2

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07/29/2024
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.
 NORTH CAROLINA REGISTERED ENGINEERING
 FIRM F-0998

FOR CONSTRUCTION

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				REV DATE BY DESCRIPTION	BUILDER Lemartec Corporation CUSTOMER Duke Energy LOCATION Dunn, North Carolina PROJECT Duke Energy Dunn Operations Center - Operations BUILDERS FOR 23068 - Ops

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Increment	Direction
#17	11	W	3'-4 1/2"	26	1	K	OW	2 1/4"	Left to Right
#18	3	W	20'-5 3/4"	26	1	K	OW	2 1/4"	Left to Right
#19	20	W	6'-0"	26	1	K	OW	2 1/4"	Left to Right
#20	7	W	15'-4 1/2"	26	1	K	GZ		Left to Right
#21	4	W	3'-0 1/2"	26	1	K	GZ		Left to Right
#11	4	W	5'-4"	26	1	K	GZ		Left to Right
#23	11	W	15'-4 1/2"	26	1	K	CO		Left to Right
#14	9	W	5'-4"	26	1	K	CO		Left to Right

Oper. Code:l=SQ, SQ
 Finish:K=KXL (Kynar)
 Color:OW=Cool Cotton White
 Color:GZ=Cool Zinc Gray
 Color:CO=Cool Cobalt Blue

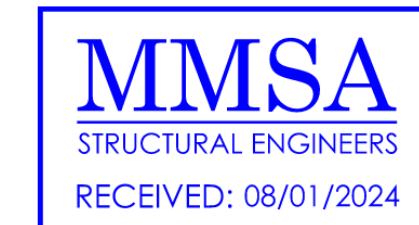
Id	Parts	Color	Details
T1	DFF10, JT07	Cool Zinc Gray	WC24A1
T2	DFF10, DFP05, HTS12, HTS03	Cool Zinc Gray	WC24A2
T3	TDG910, TDG905	Cool Zinc Gray	WC24Q4
T4	DFF10, JT10	Cool Cobalt Blue	WC24A1
T5	(2)DFF14, DFP05, (2)HTS14, HTS03	Cool Cobalt Blue	WC24A2
T6	DFF14, JT14	Cool Cobalt Blue	WC24A1
T7	DFF10, HTS10	Cool Cobalt Blue	WC24A2
T8	(2.2)BG3415, (4)BT10	Cool Zinc Gray	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
T9	(0.6)BG3415, BT10	Cool Cotton White	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
T10	BG3415, (2)BT10	Cool Cobalt Blue	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
T11	(0.1)BG3415, BT10	Cool Cobalt Blue	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
T12	(0.2)BG3415, BT10	Cool Cobalt Blue	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
T13	(5)GAC1024, (10)NLTB10, 1CP2041L, (3)CPA2045L, (36)CPA2102L, CPA1015L, 1CP1003L	Cool Cotton White	RC80E2, RC80E3, RC80G1, RC80G4, WC12A1
T14	CT05	Cool Cotton White	WC20A1
T15	CT16	Cool Zinc Gray	WC20A1



COVERING ELEVATION AT 14

- 2 2'-8"
- 1 1'-6"
- Dimension Key

Part	Description
0097584-116	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097584-102	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097581-102	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer
0097581-116	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer
0097584-115	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097581-115	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer



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07/29/2024
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.
 NORTH CAROLINA REGISTERED ENGINEERING
 FIRM F-0998

Shape Name = OPERATIONS, Wall = 3

FOR CONSTRUCTION

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VP Buildings				COVERING ELEVATION AT 14	
REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER
				Lemartec Corporation	Duke Energy
				Dunn, North Carolina	
				Duke Energy Dunn Operations Center - Operations	
				23068 - Ops	

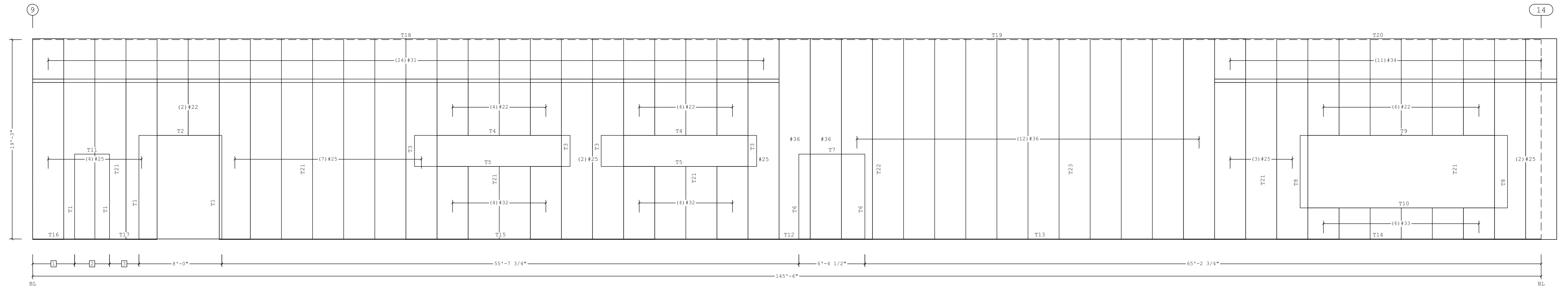


JOBNO	23-016001-01
DATE	5/1/2024
DRAWN/CHECK	LKH CS
PAGE	29

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Direction
#25	19	W	15'-5 3/4"	26	1	K	GZ	Left to Right
#22	16	W	5'-5 1/4"	26	1	K	GZ	Left to Right
#32	8	W	7'-0 1/2"	26	1	K	GZ	Left to Right
#33	6	W	3'-0 1/2"	26	1	K	GZ	Left to Right
#36	14	W	19'-4 1/2"	26	1	K	CO	Left to Right
#31	24	W	4'-2 3/4"	26	1	K	OW	Left to Right
#34	11	W	4'-2 3/4"	26	1	K	OW	Left to Right

Oper. Code:1=SQ, SQ
 Finish:K=KXL (Kynar)
 Color:GZ=Cool Zinc Gray
 Color:CO=Cool Cobalt Blue
 Color:OW=Cool Cotton White

Id	Parts	Color	Details
T1	DFFP10, JT10	Cool Zinc Gray	WC24A1
T2	DFFP10, HTS10	Cool Zinc Gray	WC24A2
T3	DFFP05, JT05	Cool Zinc Gray	WC24A1
T4	DFFP10, DFFP05, HTS12, HTS03	Cool Zinc Gray	WC24A2
T5	TDG910, TDG905	Cool Zinc Gray	WC24Q4
T6	DFFP10, JT10	Cool Cobalt Blue	WC24A1
T7	DFFP10, HTS10	Cool Cobalt Blue	WC24A2
T8	DFFP10, JT07	Cool Zinc Gray	WC24A1
T9	DFFP12, DFFP10, HTS12, HTS10	Cool Zinc Gray	WC24A2
T10	(2)TDG910	Cool Zinc Gray	WC24Q4
T11	DFFP05, HTS05	Cool Zinc Gray	WC24A2
T12	(0.1)BG3415, BT10	Cool Cobalt Blue	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1
T13	(2.2)BG3415, (4)BT10	Cool Cobalt Blue	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
T14	(2.1)BG3415, (4)BT10	Cool Zinc Gray	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
T15	(3.6)BG3415, (6)BT10	Cool Zinc Gray	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
T16	(0.3)BG3415, BT10	Cool Zinc Gray	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
T17	(0.2)BG3415, BT10	Cool Zinc Gray	WSR065, EN52A1, ENV003, RC00A1, WC01AB, WC04G1, WS27B2, WS27D2
T18	(7)PCA10A, PCA05A	Cool Cotton White	WC11F1, WC11F4
T19	(4)PCA10A, PCA05A	Cool Cobalt Blue	WC11F1, WC11F4
T20	(3)PCA10A, PCA05A	Cool Cotton White	WC11F1, WC11F4
T21	5CE75, (2)CP510, DN1, (4)DST1	Cool Zinc Gray	RC38P1
T22	5CE75, (2)CP510, DN1, (4)DST1	Cool Cobalt Blue	RC38P1
T23	5CE75, (2)CP510, DN1, (4)DST1	Cool Cotton White	RC38P1



COVERING ELEVATION AT D

- 3 2'-10"
 - 2 3'-4 1/2"
 - 1 4'-0 1/2"
- Dimension Key

Part	Description
0097584-116	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097584-102	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097581-116	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer
0097584-115	(T-2) #12-14 x 1 1/4", 5/16" Hex Hd, SS Cap w/Washer
0097581-115	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer
0097581-102	(T-1) 1/4-14 x 7/8", 5/16" Hex Hd, SS Cap w/Washer

Shape Name = OPERATIONS, Wall = 4



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BLUESCOPE BUILDINGS NORTH AMERICA, INC.
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

FOR CONSTRUCTION

- PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S AND/OR FASTENERS TO STRUCTURAL BEAMS
- STEEL PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.
- DUE TO MANUFACTURING LIMITATIONS SHORT PANELS MAY REQUIRE FIELD CUTTING. SEE THE COVERING SCHEDULE FOR CUT LENGTHS.
- SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION.

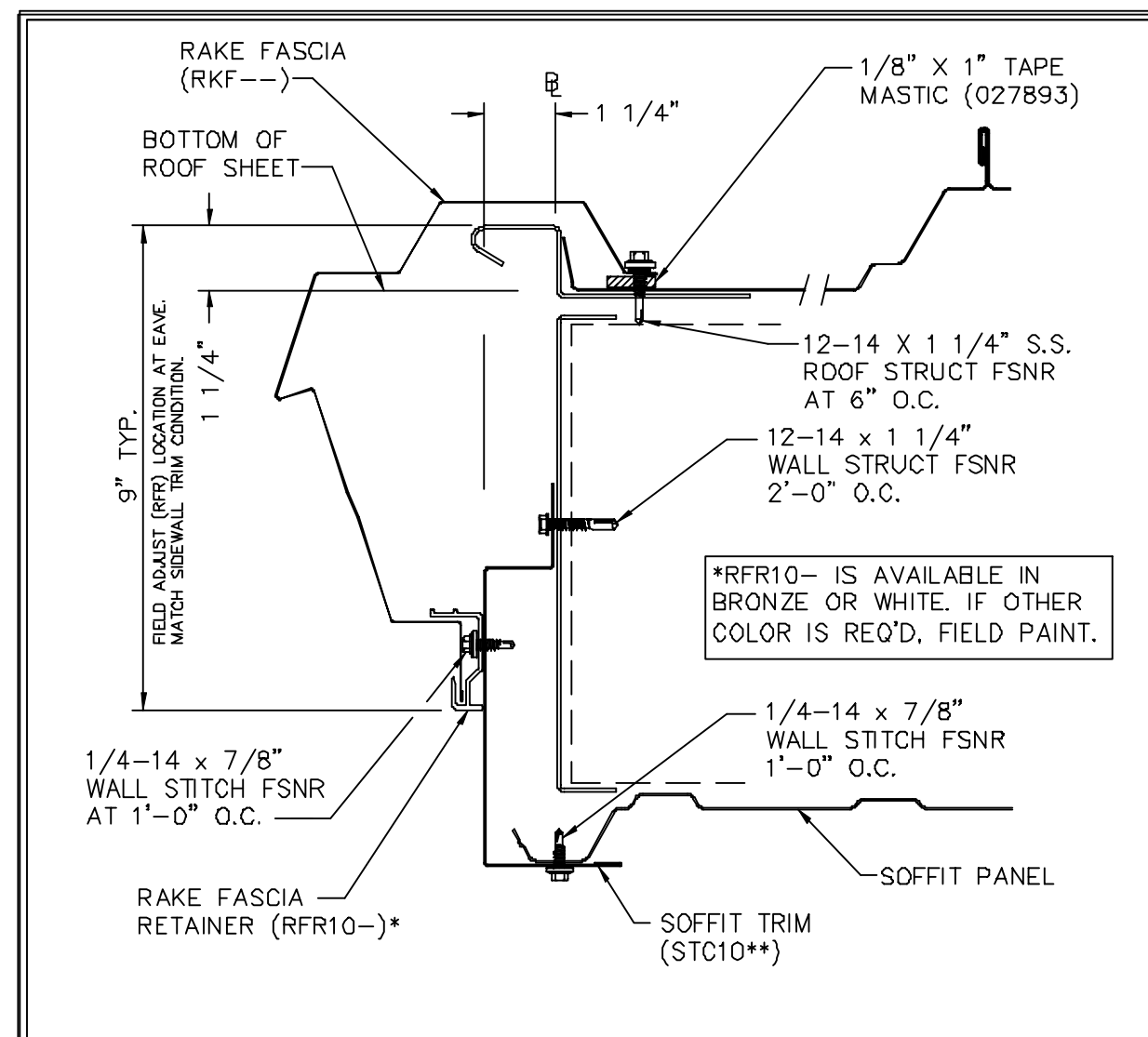
THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.

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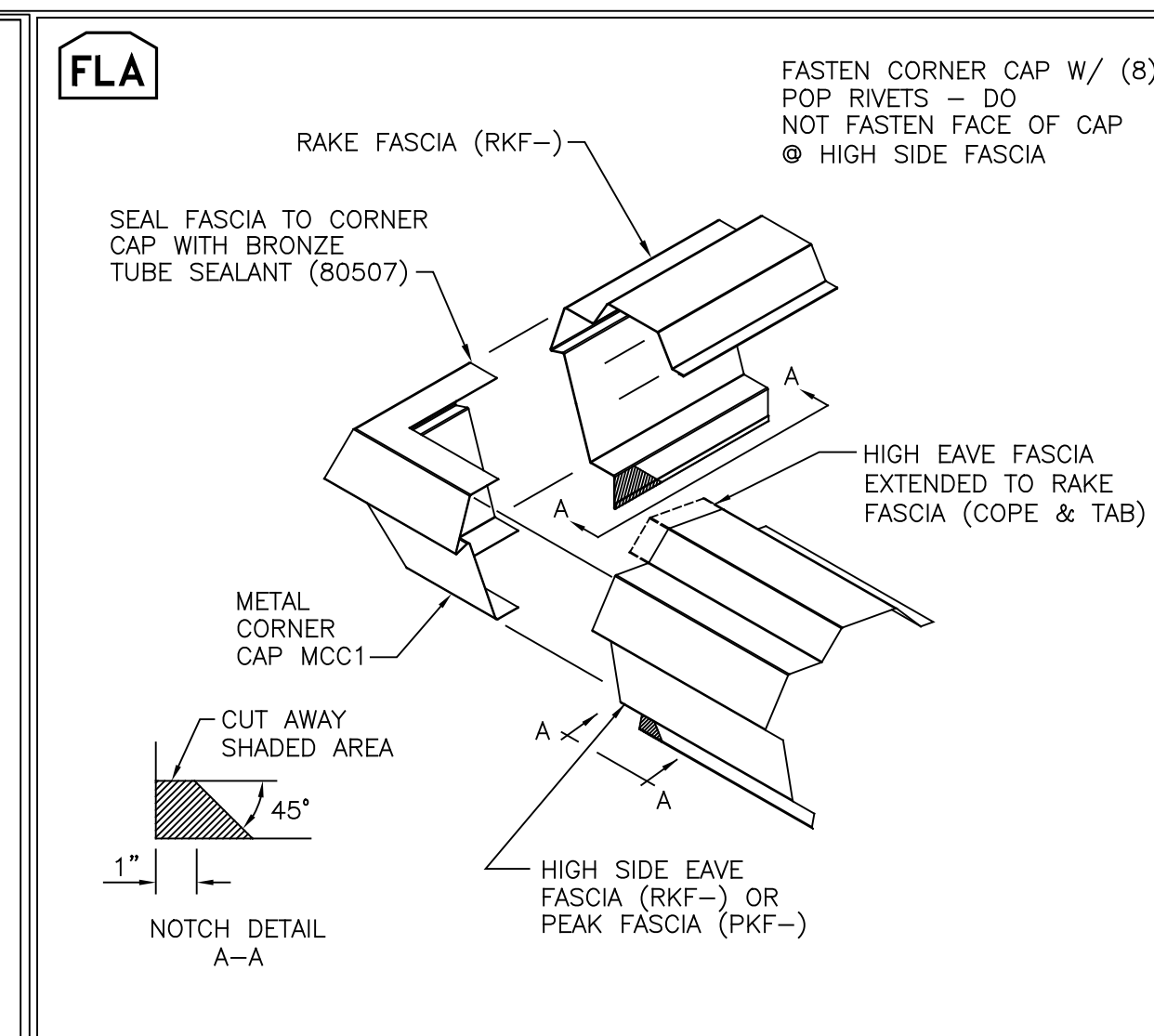
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REV	DATE	BY	DESCRIPTION
D			VP Buildings 3200 Players Club Circle Memphis TN 38125

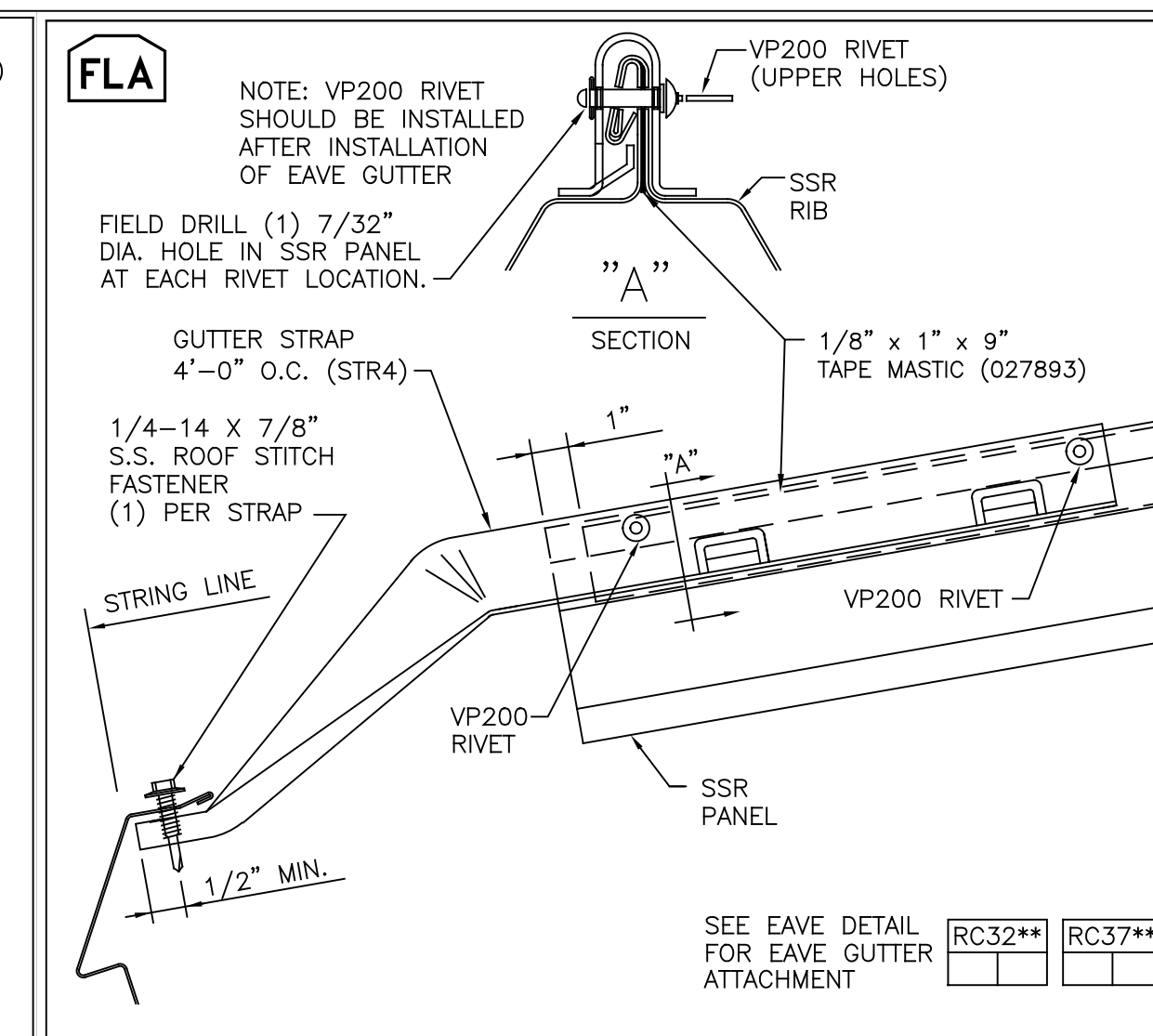
COVERING ELEVATION AT D	
BUILDER	Lemartec Corporation
CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center - Operations
BUILDERS FOR	23068 - Ops
JOBNO	23-016001-01
DATE	5/1/2024
DRAWN/CHECK	LKH SM/CS
PAGE	30



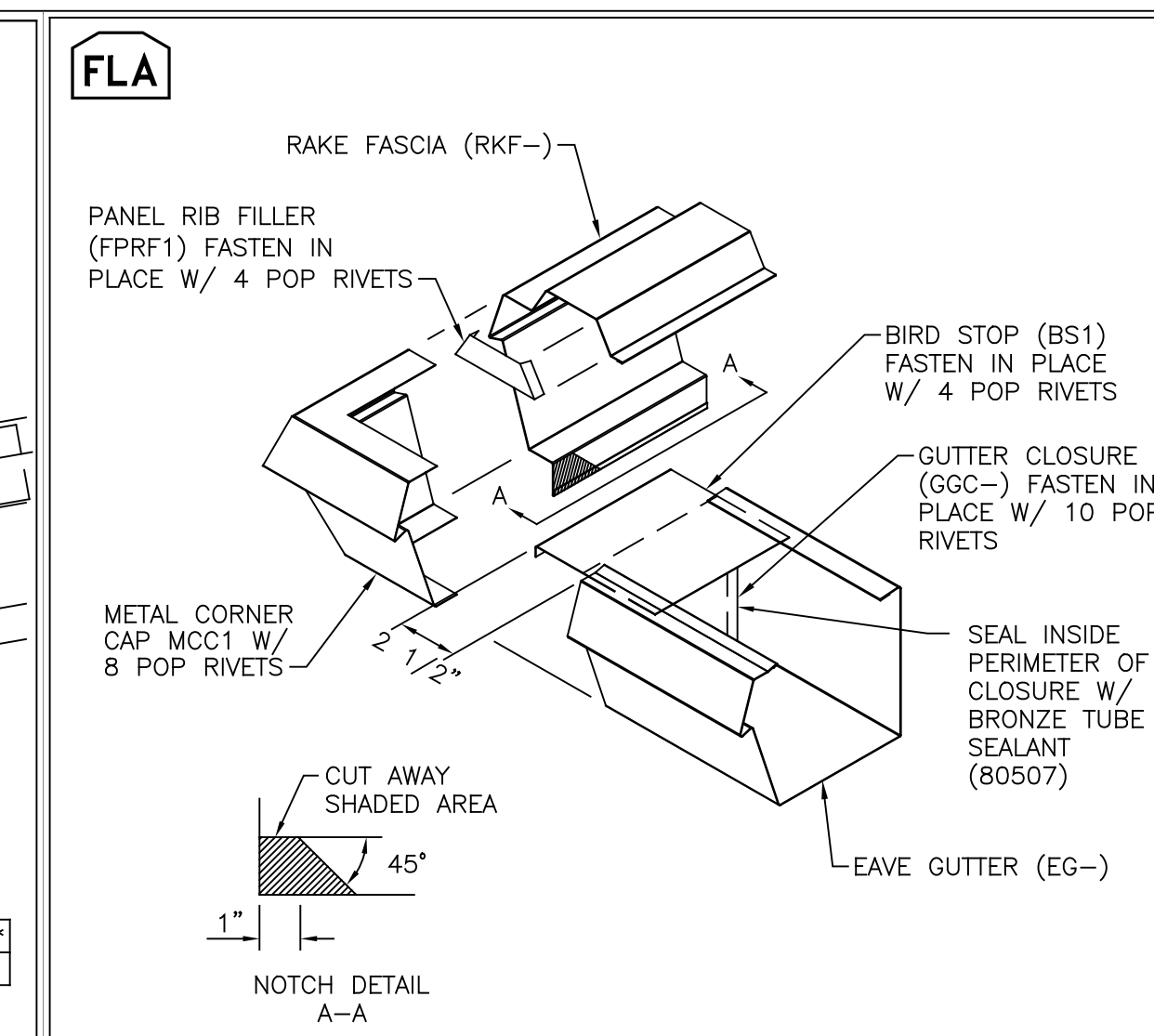
REV. DATE: 08/16/16 REV. NO. 05
RC30A9 SSR RAKE TRIM (WITH SOFFIT)
PR, VR OR RPR CANOPY RAKE - ALL ROOF EXT.



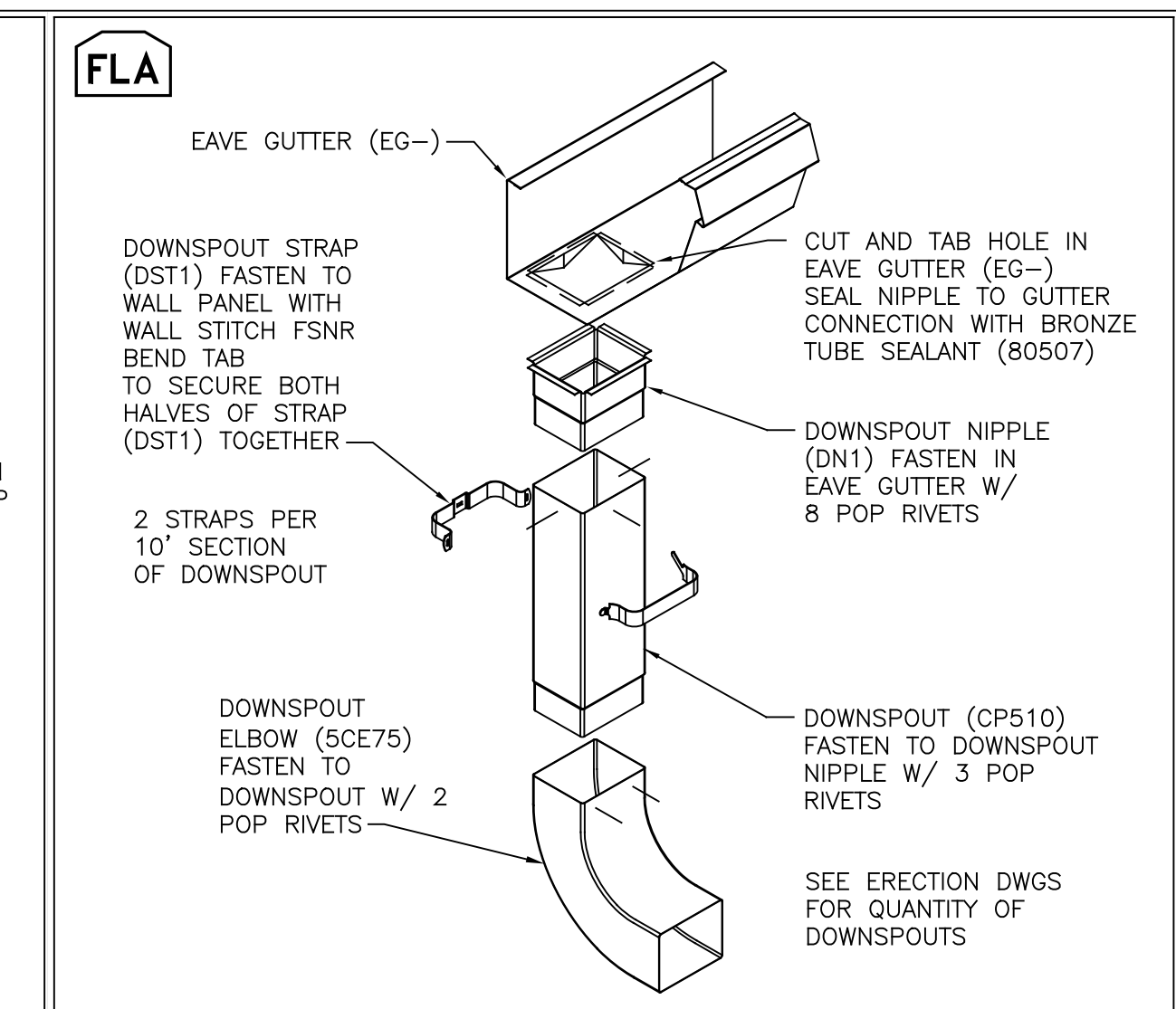
REV. DATE: 06/26/19 REV. NO. 05
RC38AJ HIGH EAVE CORNER ASSEMBLY
ALL WALL SYSTEMS (SSR, PANEL RIB ROOFS)



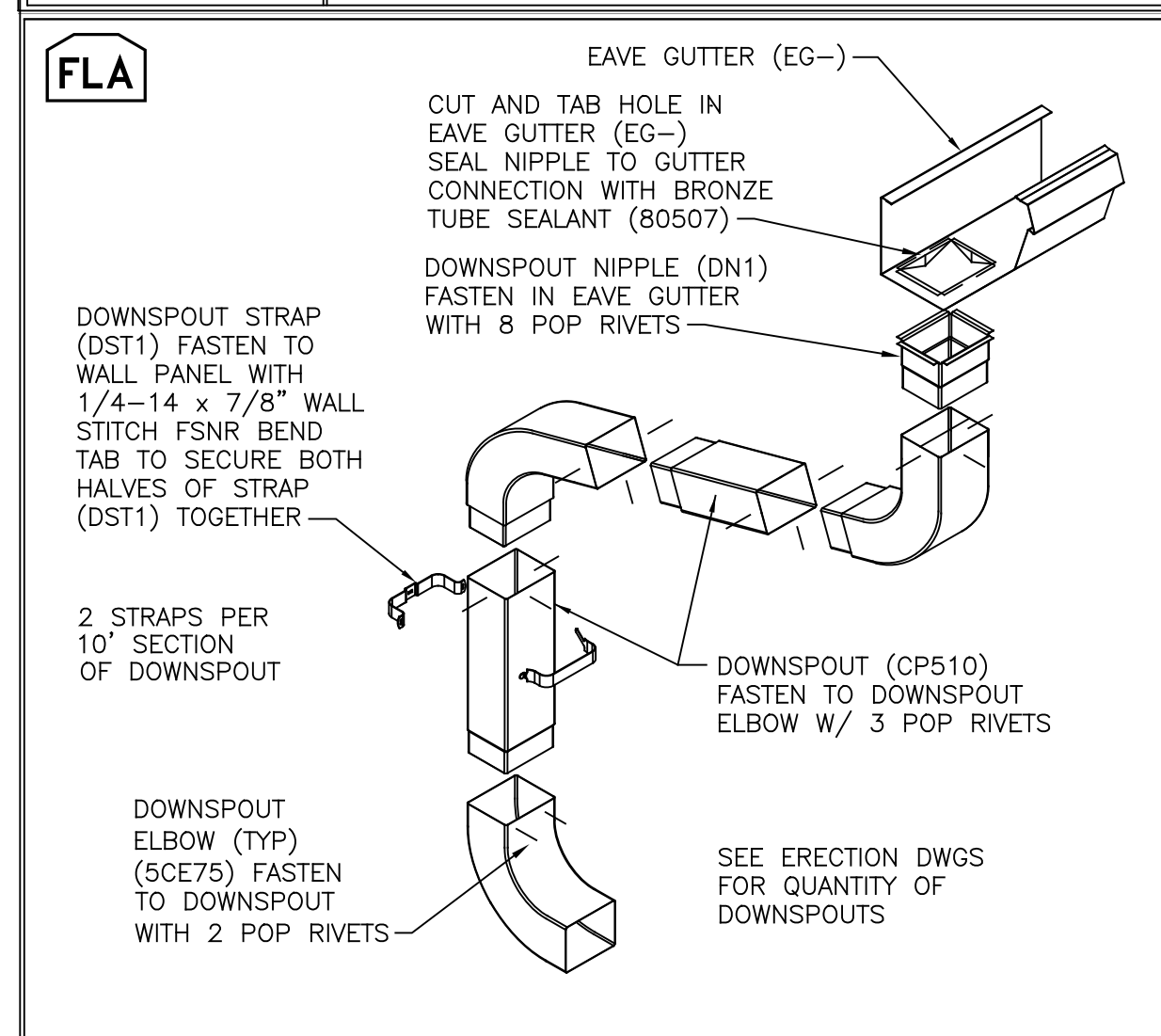
REV. DATE: 03/23/21 REV. NO. 08
RC38E1 GUTTER STRAP ATTACHMENT
SSR ROOF (NON-ICE DAMMING)



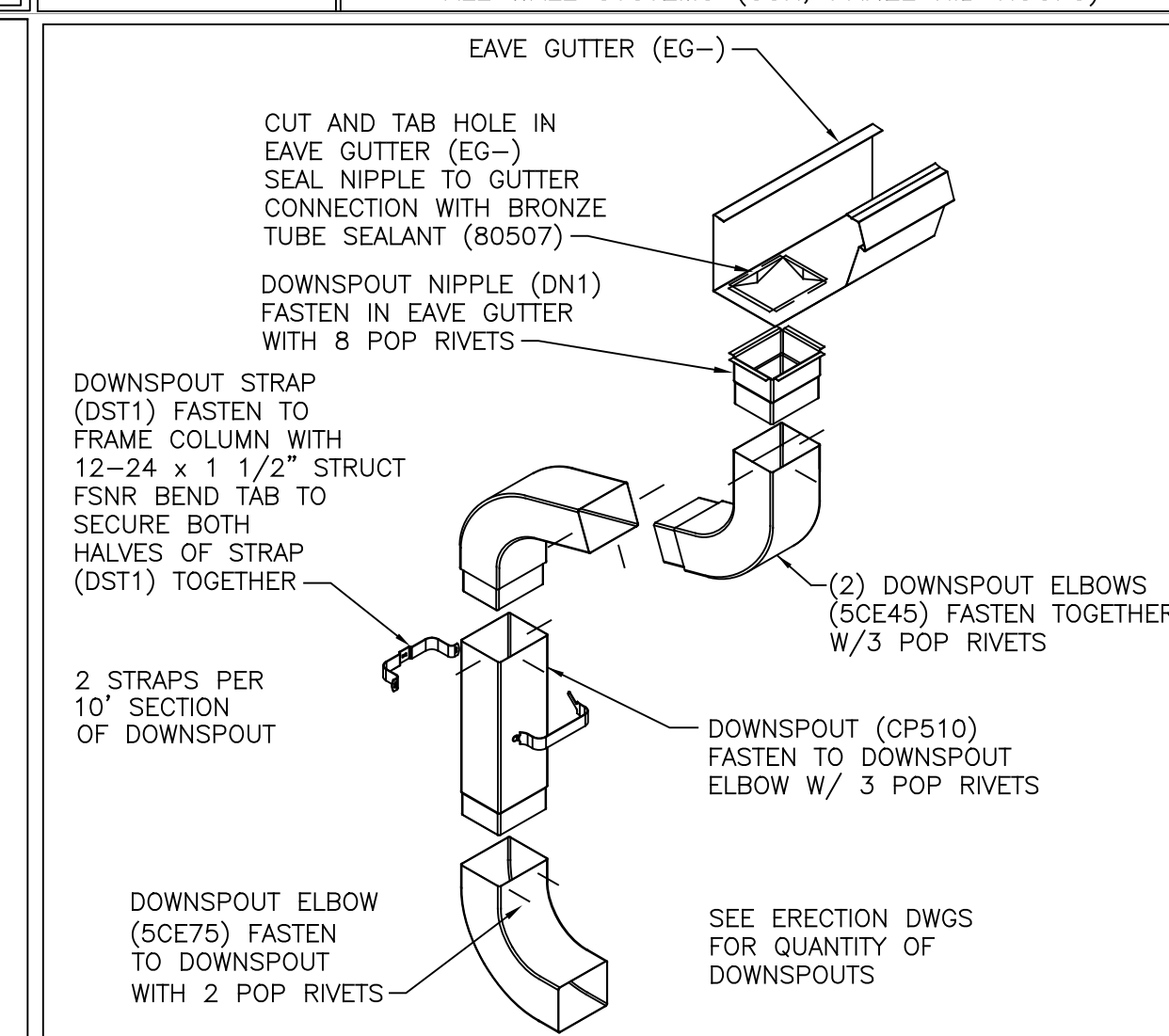
REV. DATE: 06/26/19 REV. NO. 04
RC38N1 EAVE GUTTER CORNER ASSEMBLY
ALL SYSTEMS



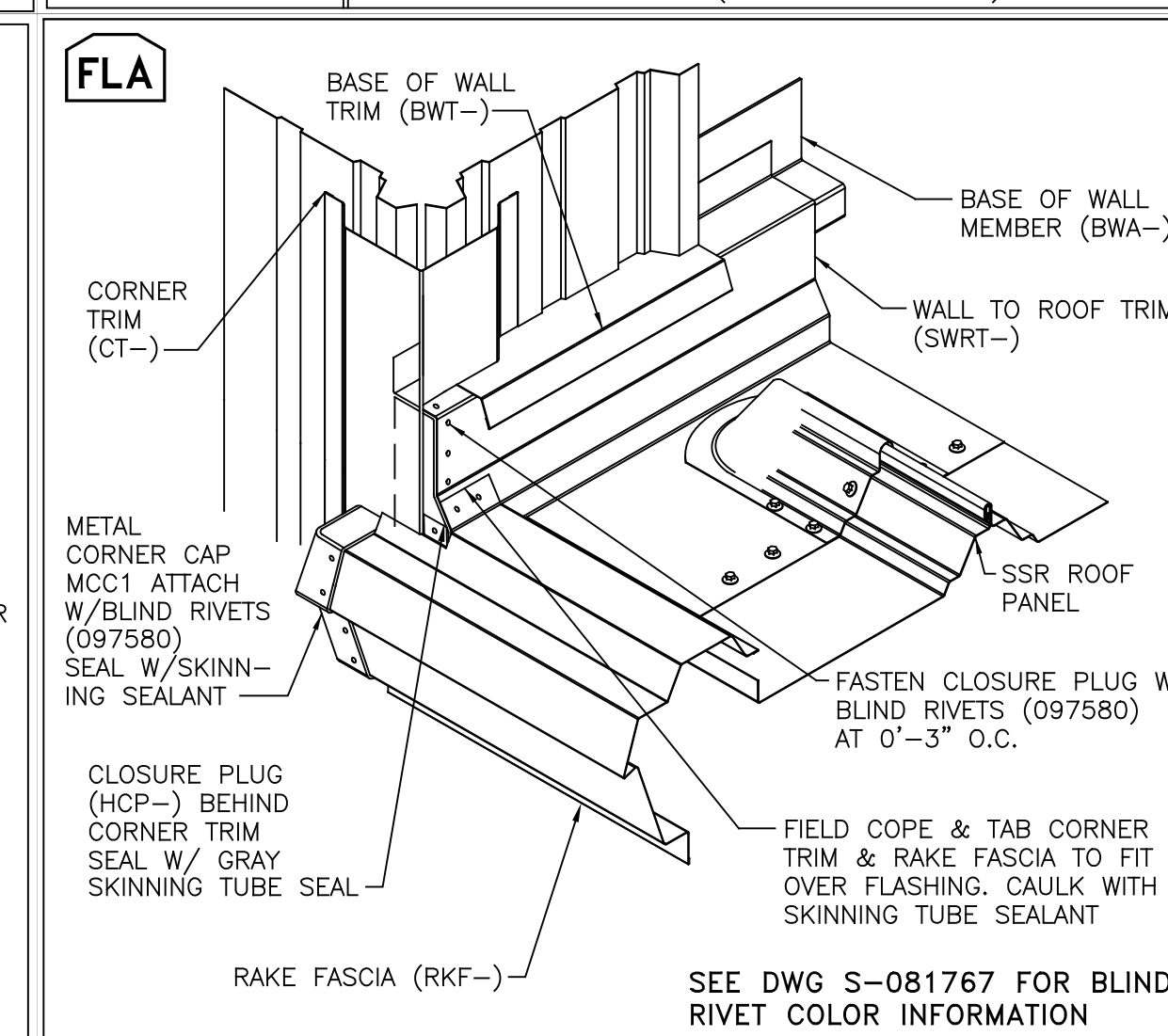
REV. DATE: 06/26/19 REV. NO. 04
RC38P1 DOWNSPOUT ASSEMBLY
ALL SYSTEMS



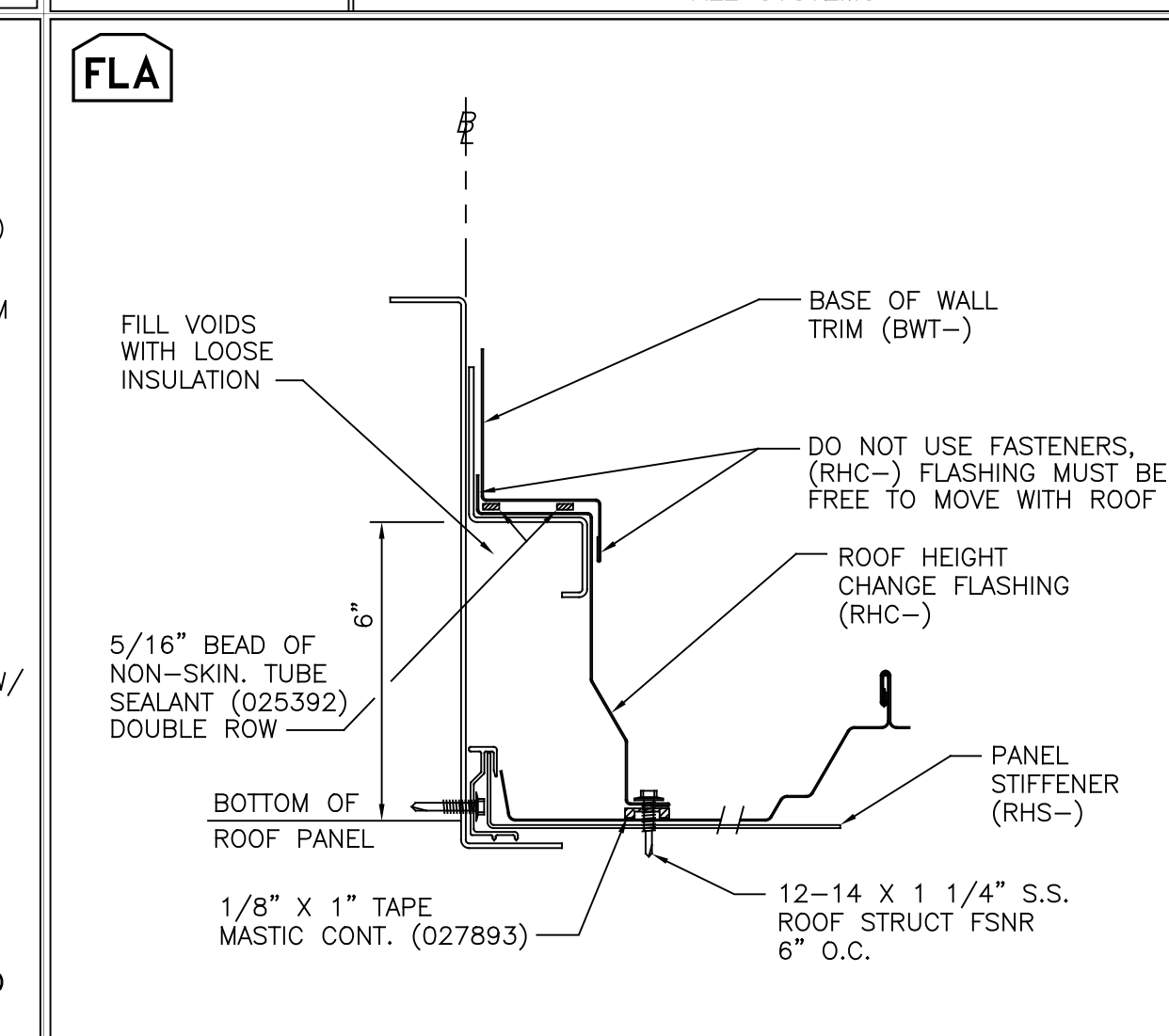
REV. DATE: 06/26/19 REV. NO. 04
RC38R1 DOWNSPOUT ASSEMBLY
ALL SYSTEMS (WITH CANOPY)



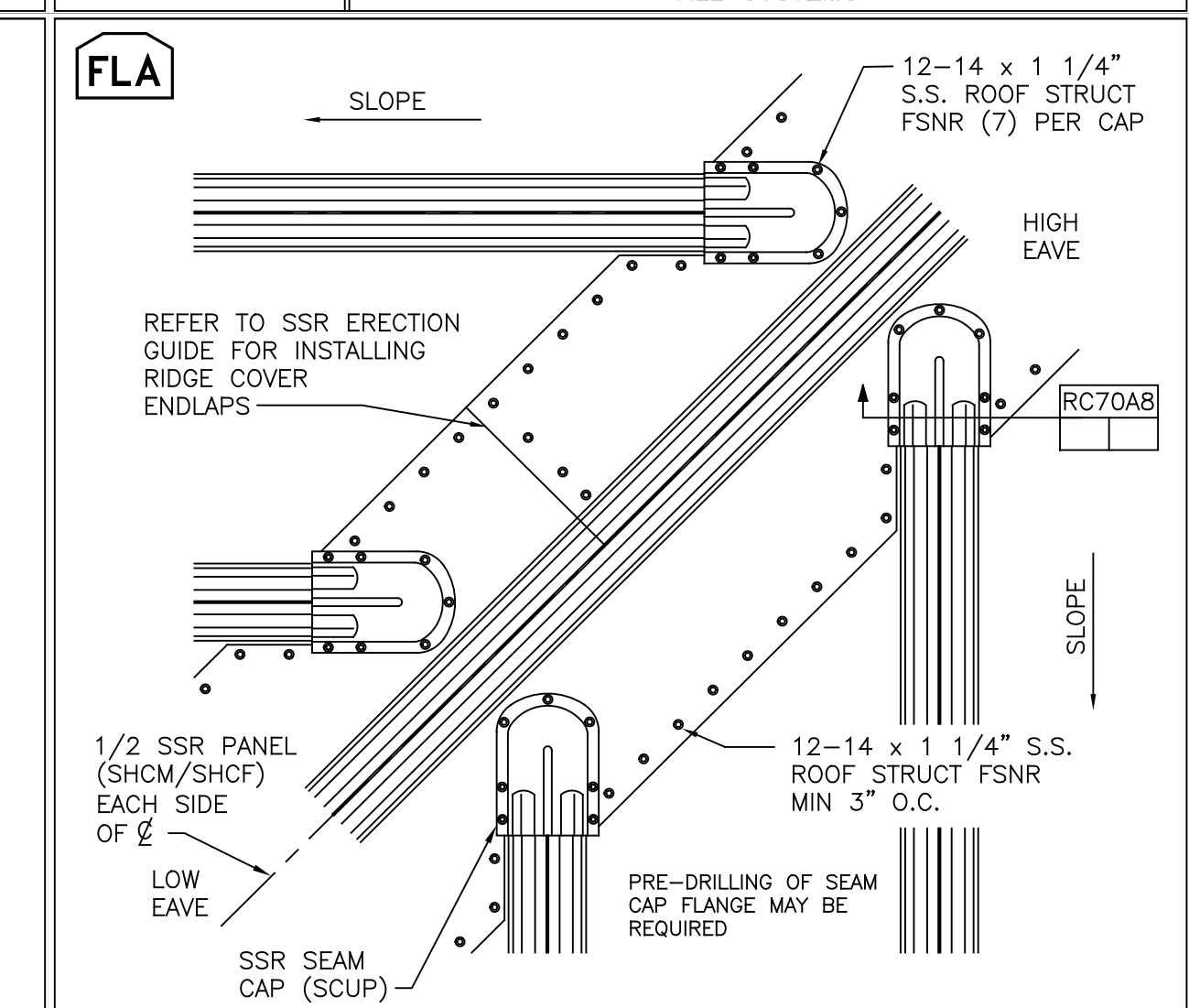
REV. DATE: 09/15/22 REV. NO. 00
RC38R2 DOWNSPOUT ASSEMBLY
ALL SYSTEM (OPEN WALLS)



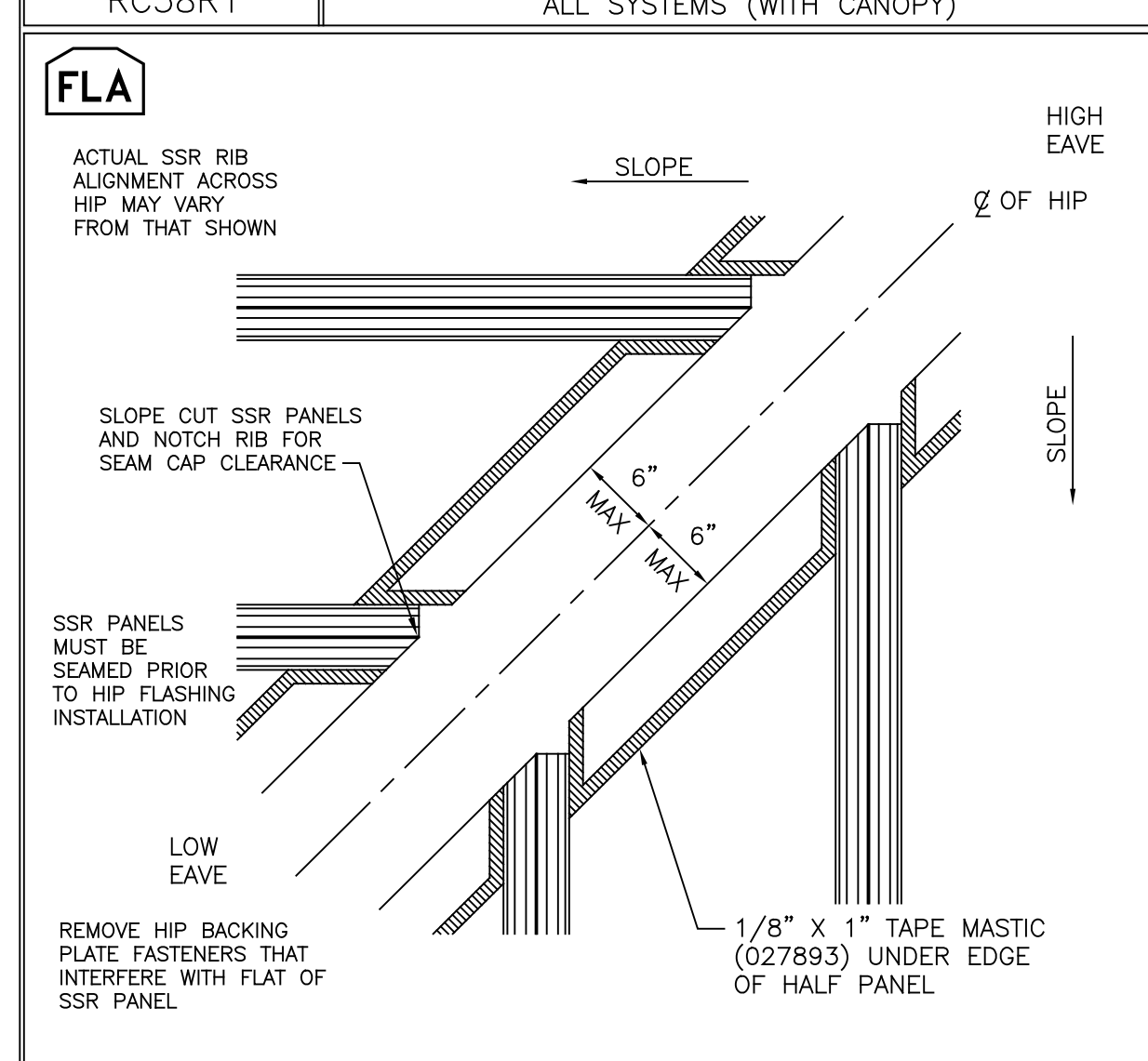
REV. DATE: 06/26/19 REV. NO. 05
RC50H3 WALL TO ROOF TRANS. AT RAKE
METAL FLASHING (VIEWED FROM ROOF)



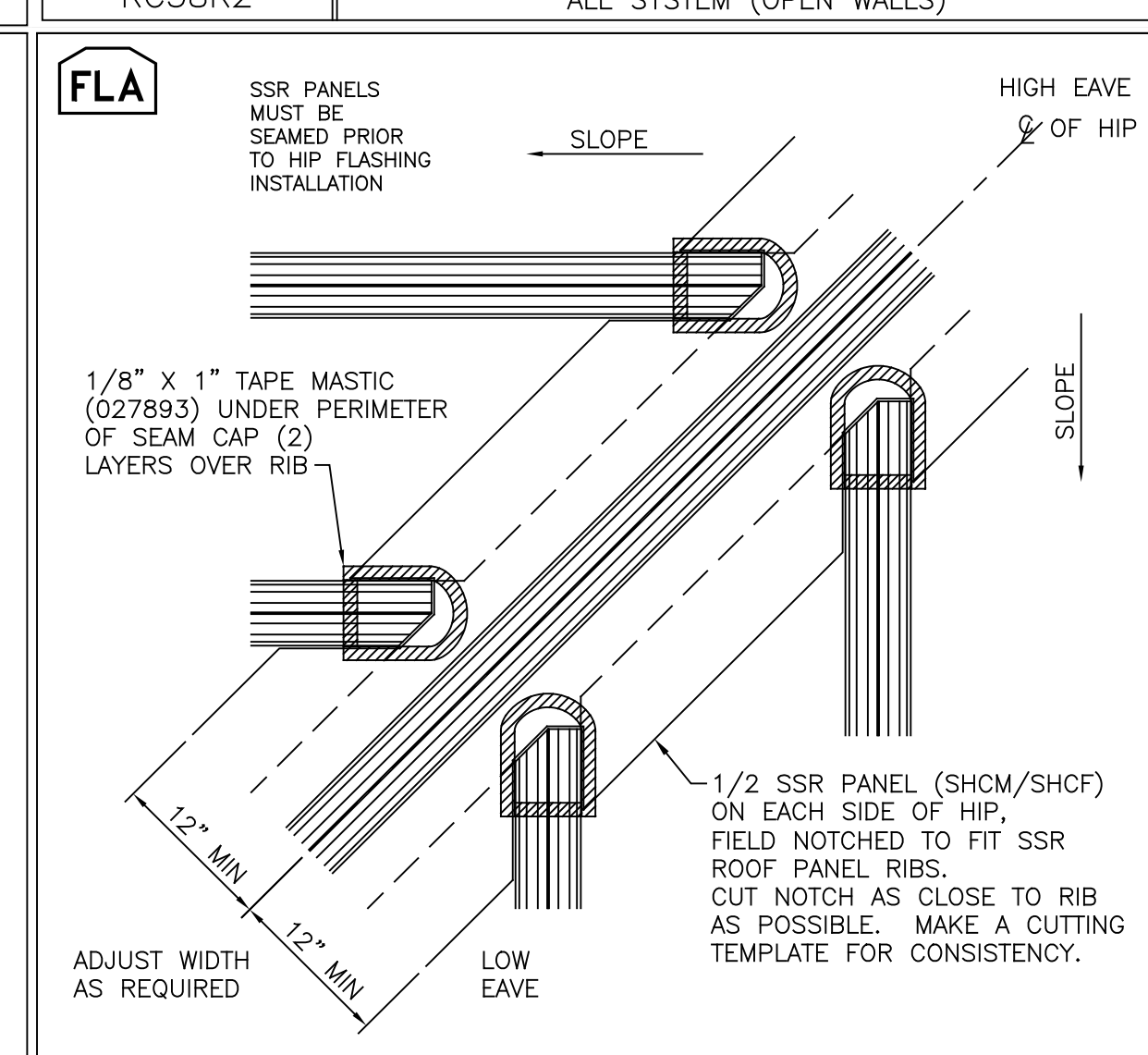
REV. DATE: 06/26/19 REV. NO. 03
RC52A1 ROOF HEIGHT CHANGE FLASHING
SSR ROOF (METAL FLASHING)



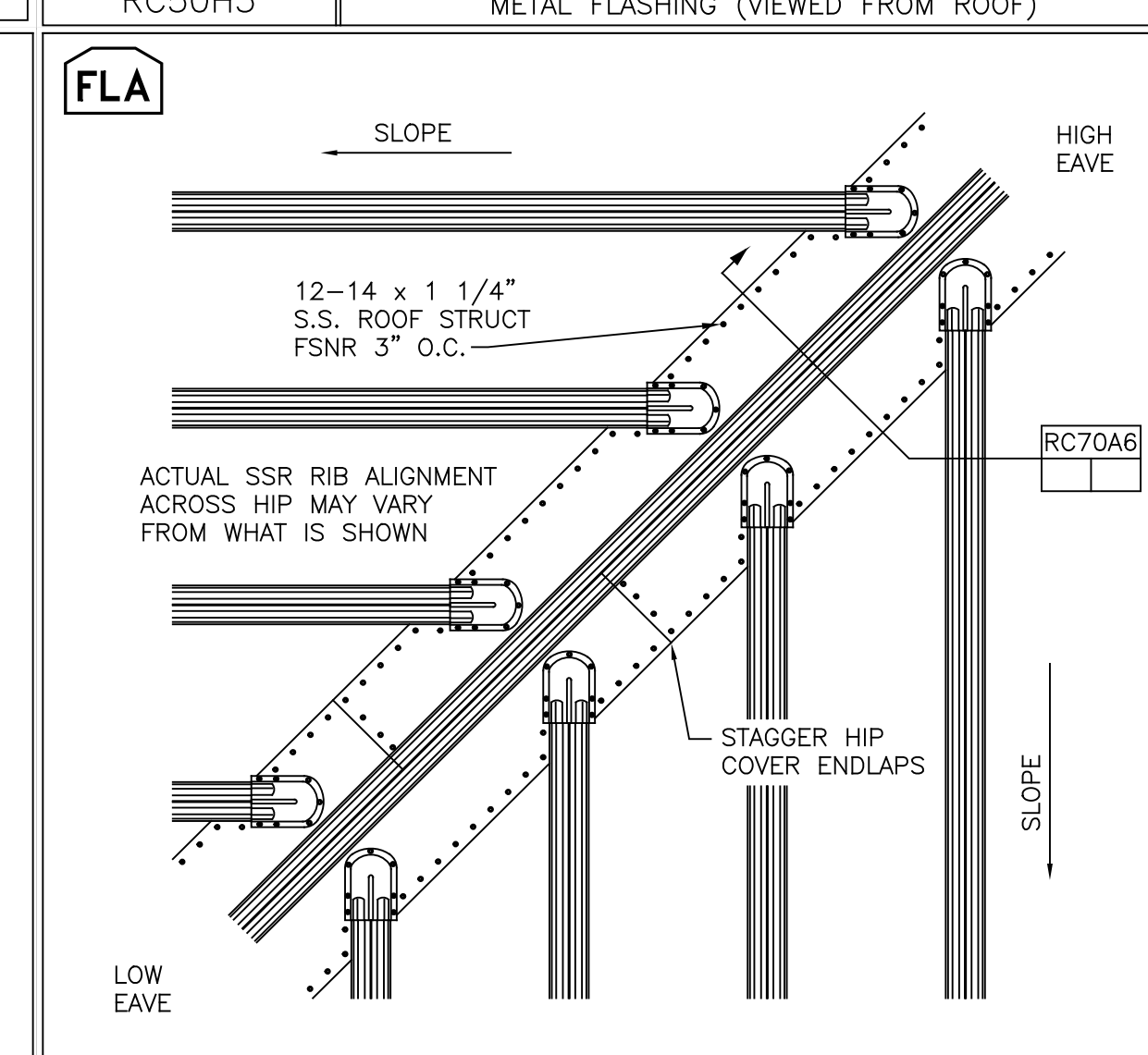
REV. DATE: 06/26/19 REV. NO. 01
RC70A1 SSR HIP FLASHING



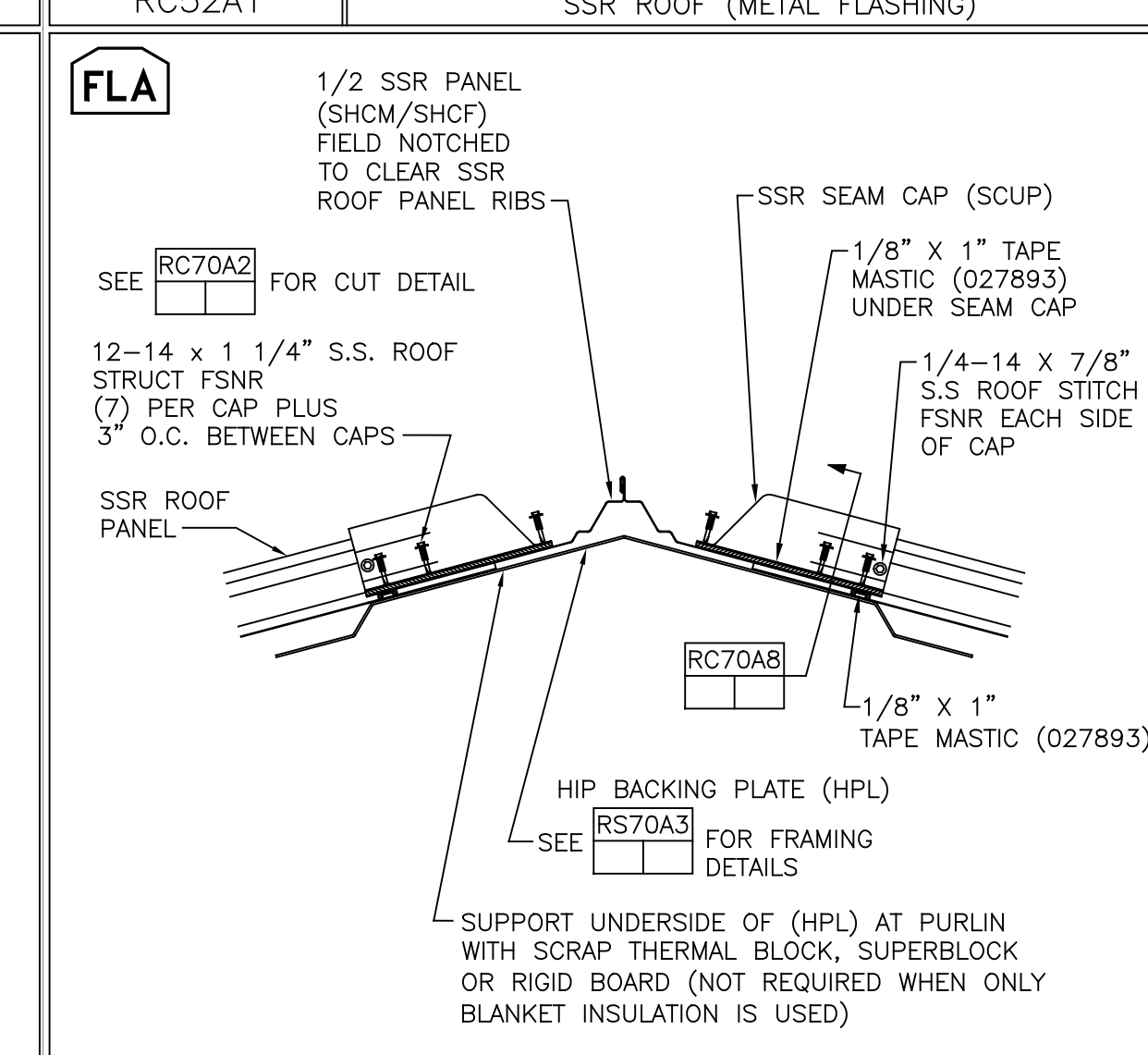
REV. DATE: 06/26/19 REV. NO. 02
RC70A2 SSR HIP SHEETING INSTALLATION



REV. DATE: 06/26/19 REV. NO. 02
RC70A3 SSR HIP FLASHING

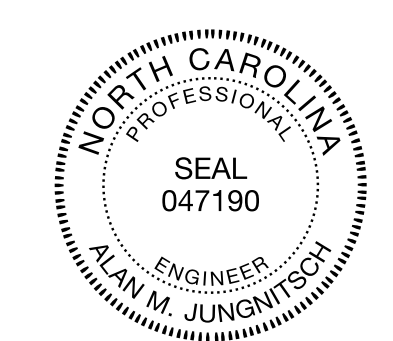
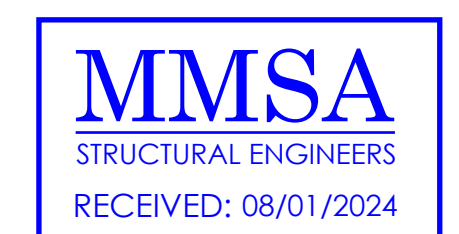


REV. DATE: 06/26/19 REV. NO. 01
RC70A4 SSR HIP SHEETING PLAN



REV. DATE: 06/26/19 REV. NO. 03
RC70A6 SSR HIP FLASHING SECTION VIEW

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07/29/2024
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NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

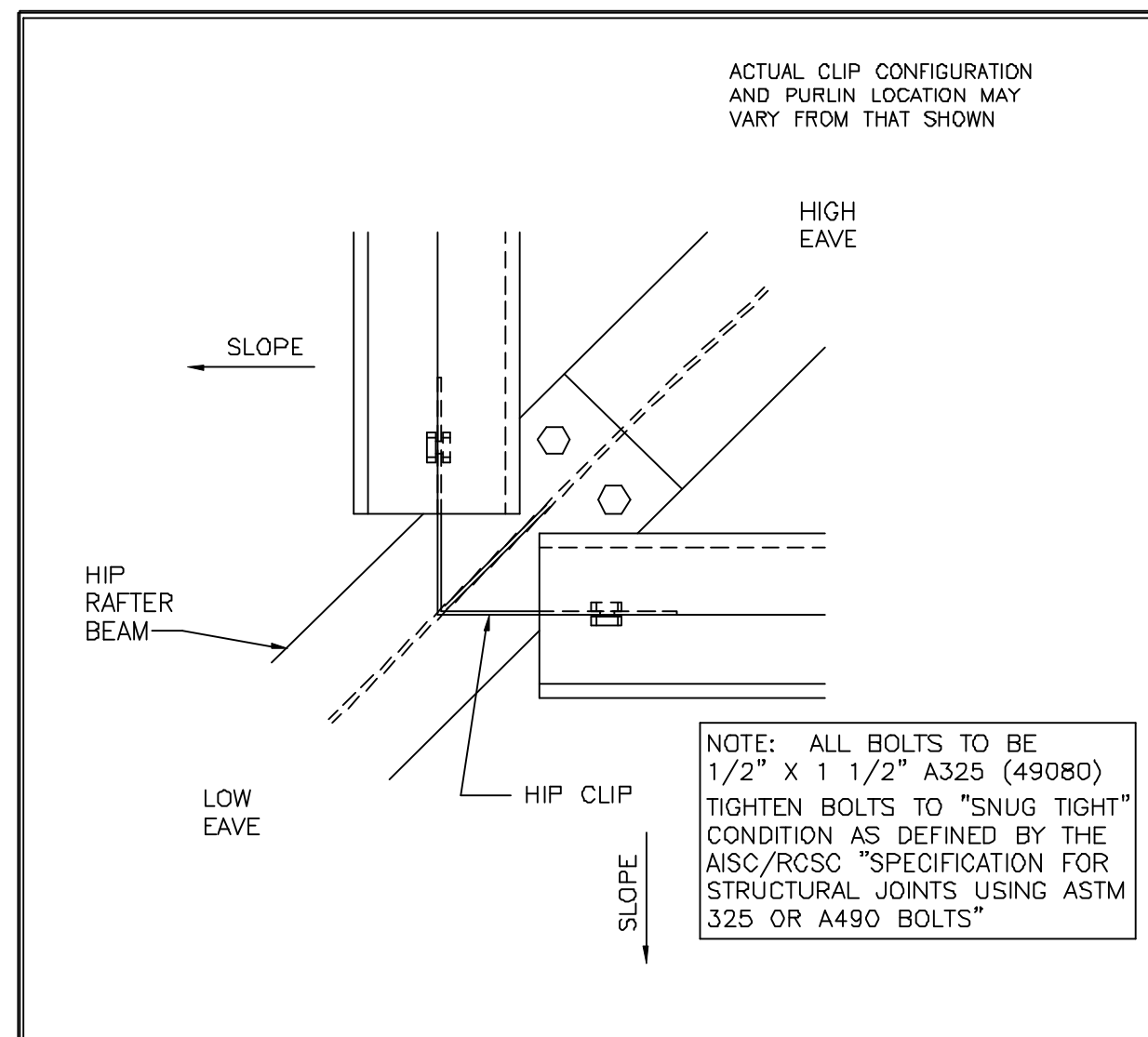
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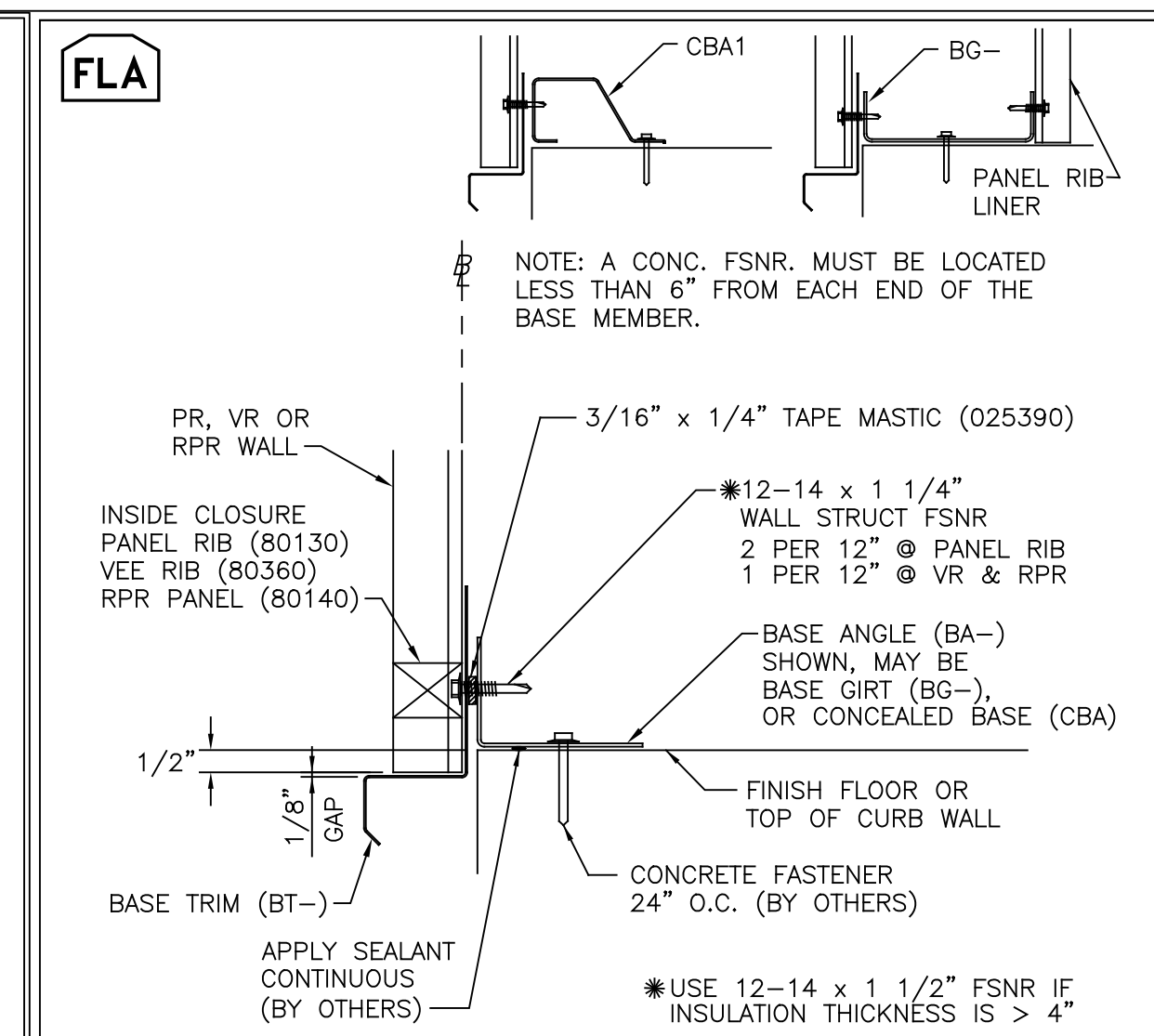
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REV	DATE	BY	DESCRIPTION

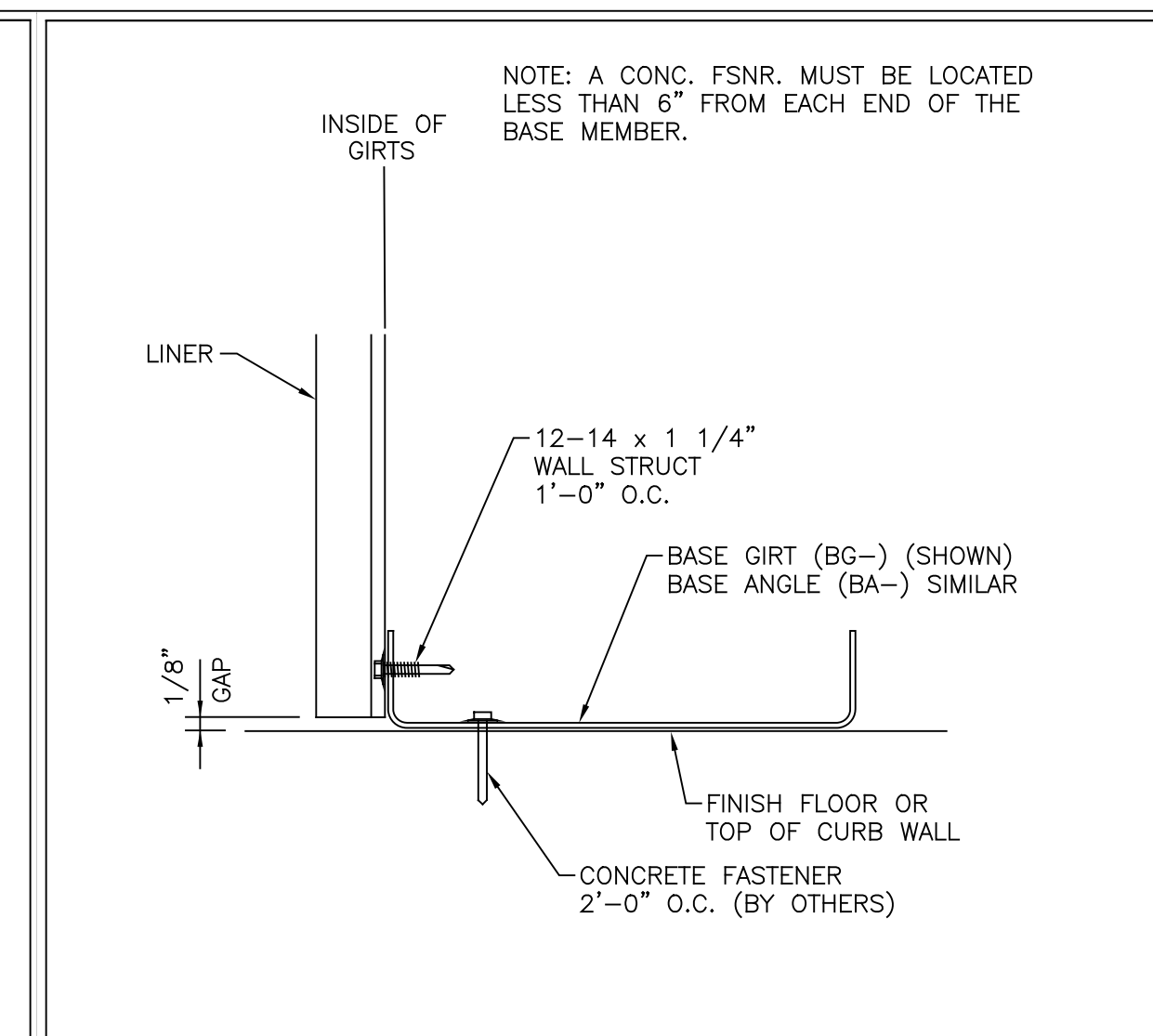
VP Buildings		COVERING & TRIM SED'S (b)	
3200 Players Club Circle Memphis TN 38125		BUILDER	Lemartec Corporation
		CUSTOMER	Duke Energy
		LOCATION	Dunn, North Carolina
		PROJECT	Duke Energy Dunn Operations Center - Operations
		BUILDERS PO#	23068 - Ops
		VP VERSION	24.1.0
		DATE	5/1/2024
		DRAWN/CHECK	LKH SM
		PAGE	32



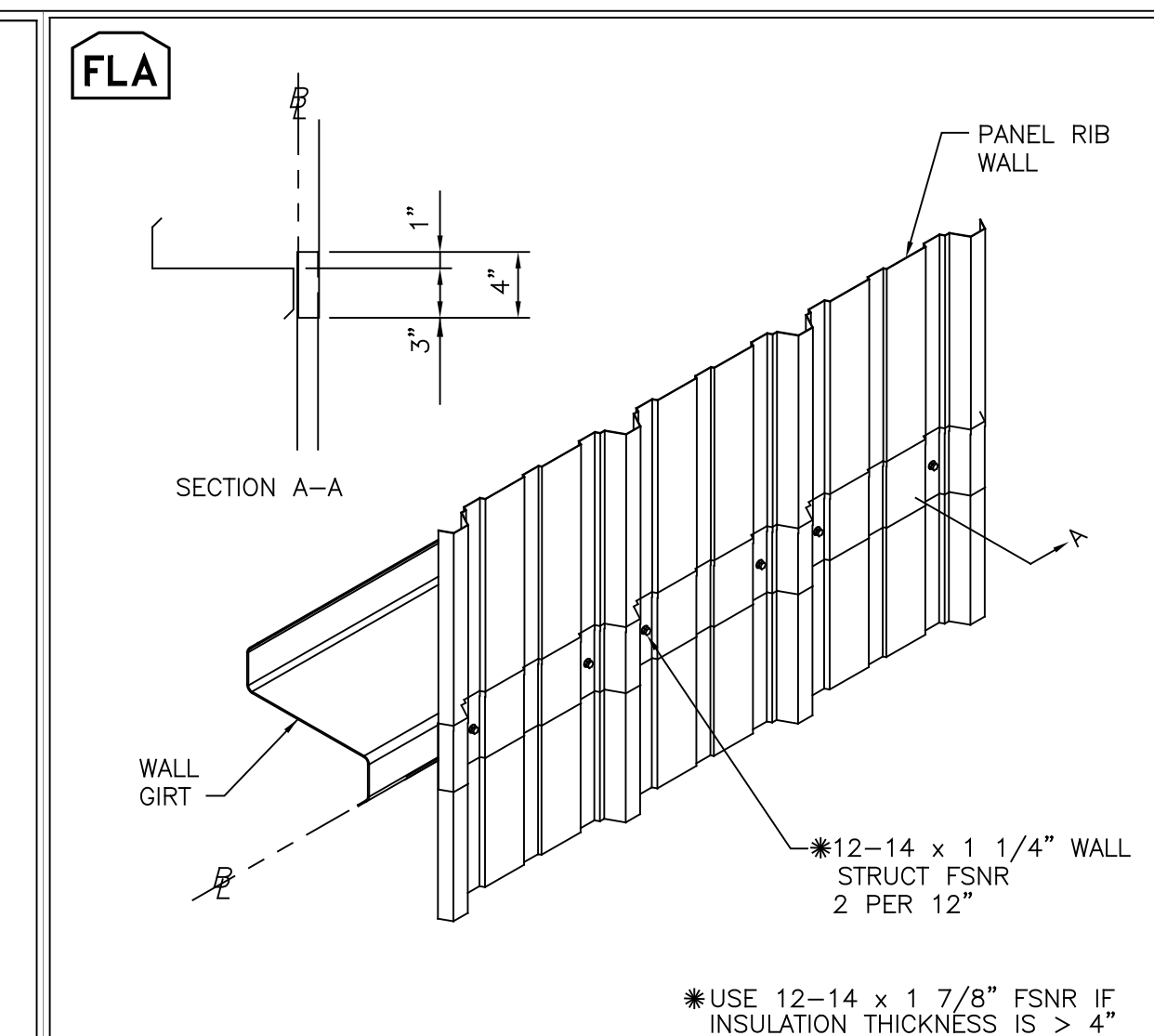
REV. DATE: 07/01/09 | REV. NO. 00
RS70A4 | HIP FRAMING PURLIN CLIP ATTACHMENT



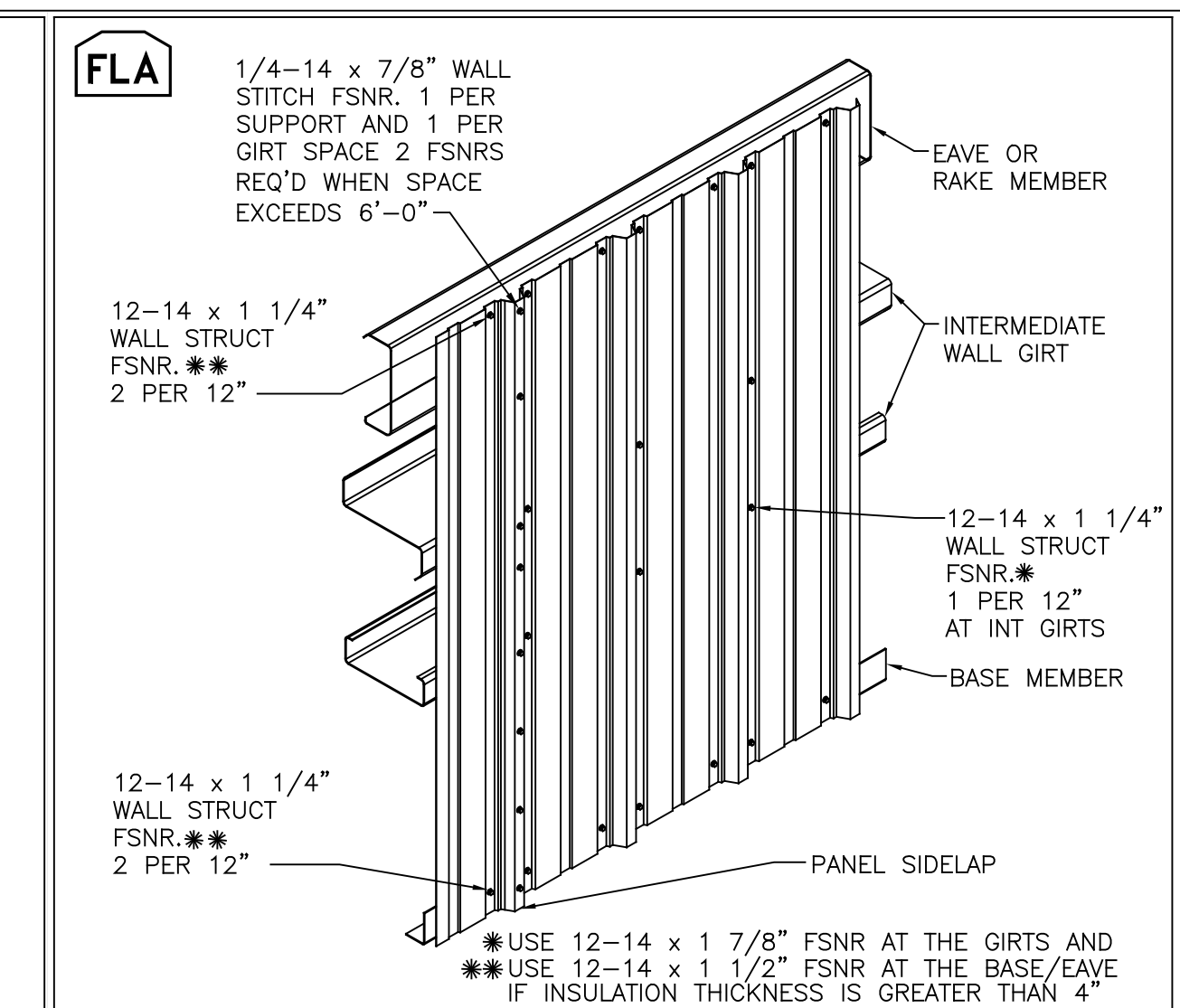
REV. DATE: 06/26/19 | REV. NO. 06
WC01AB | BASE OF WALL ATTACHMENT PR, VR OR RPR W/ BASE TRIM



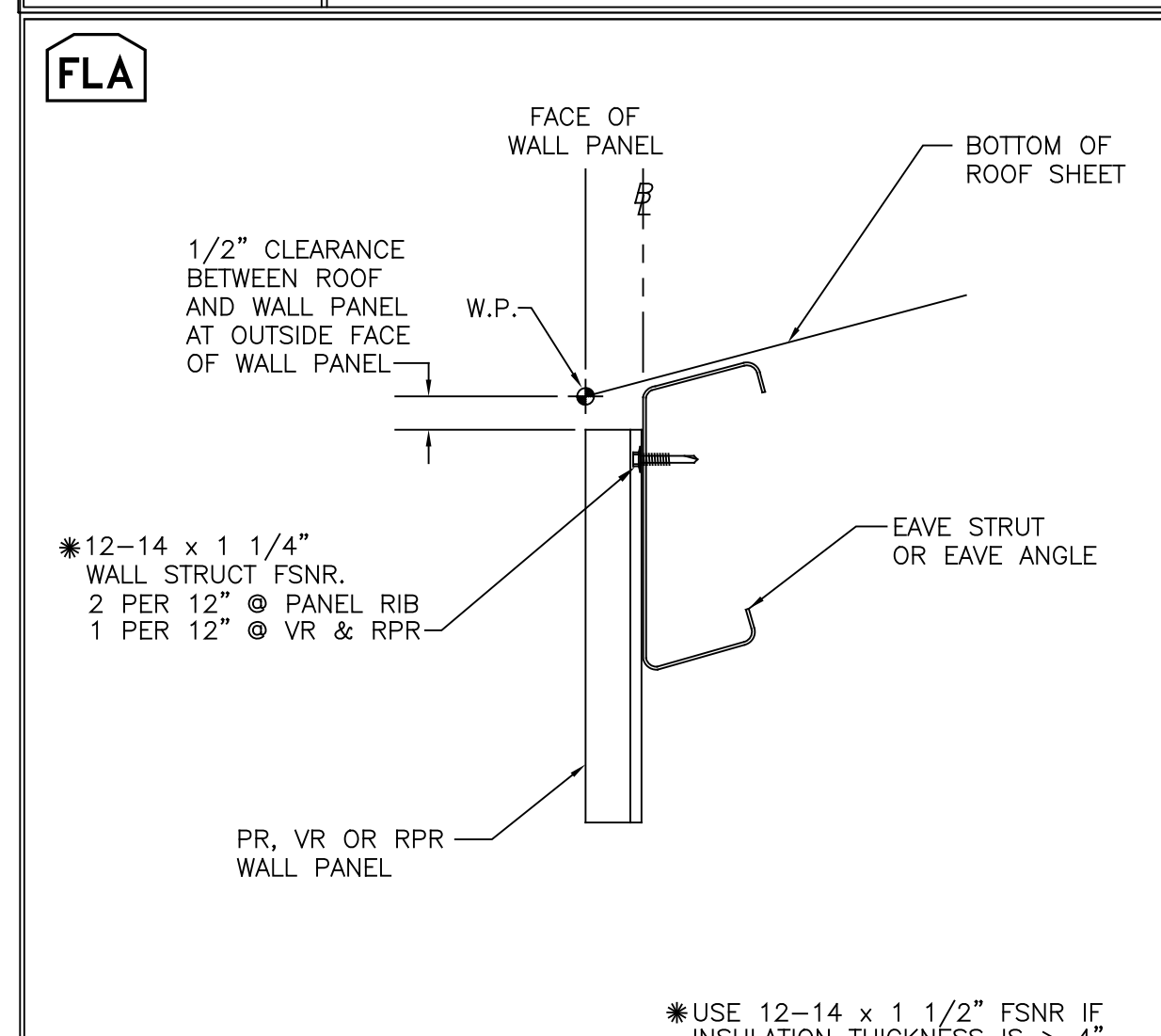
REV. DATE: 01/29/21 | REV. NO. 03
WC01JD | BASE OF LINER ATTACHMENT LINER



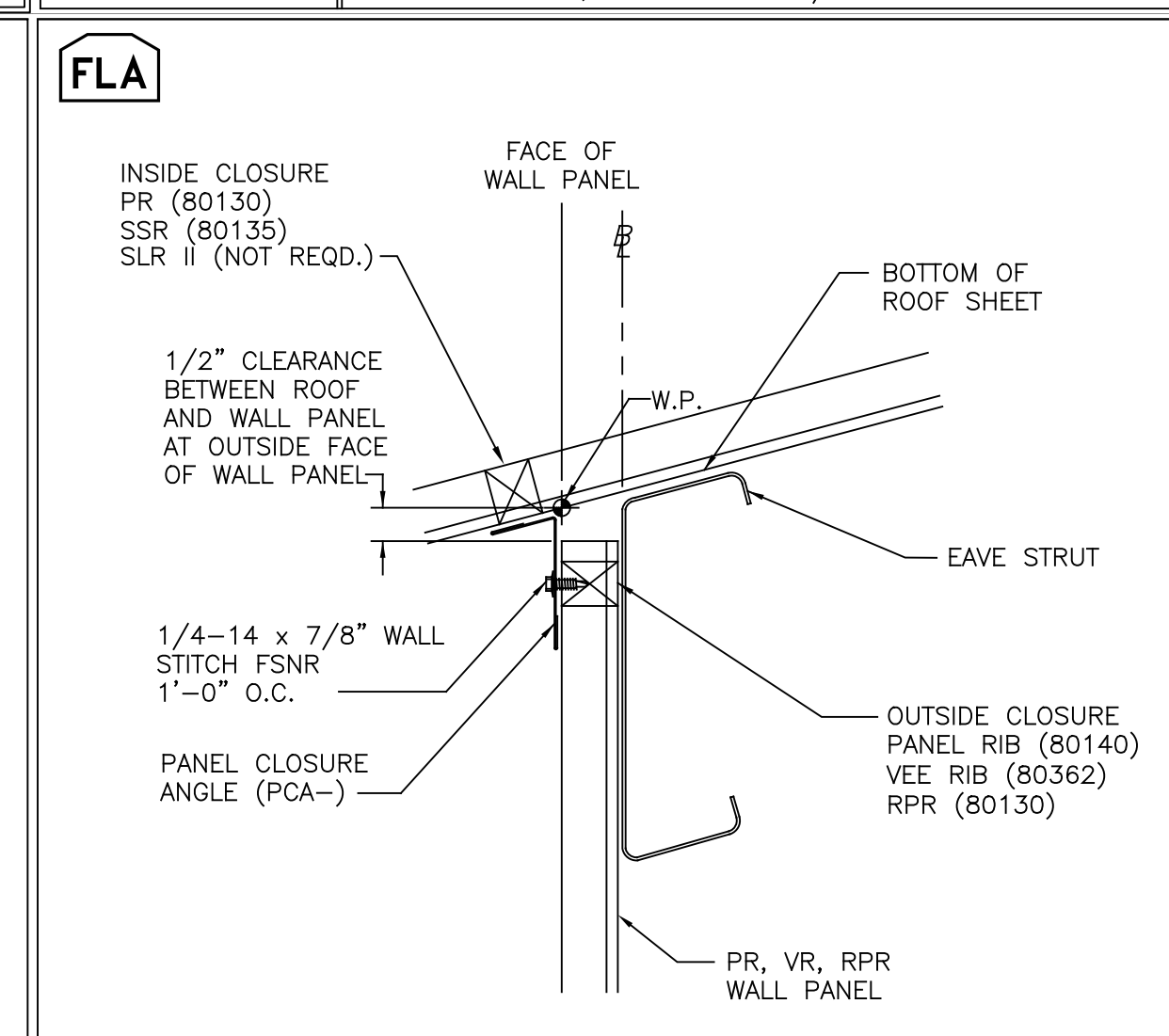
REV. DATE: 06/26/19 | REV. NO. 02
WC02A1 | WALL PANEL END LAP PANEL RIB WALL



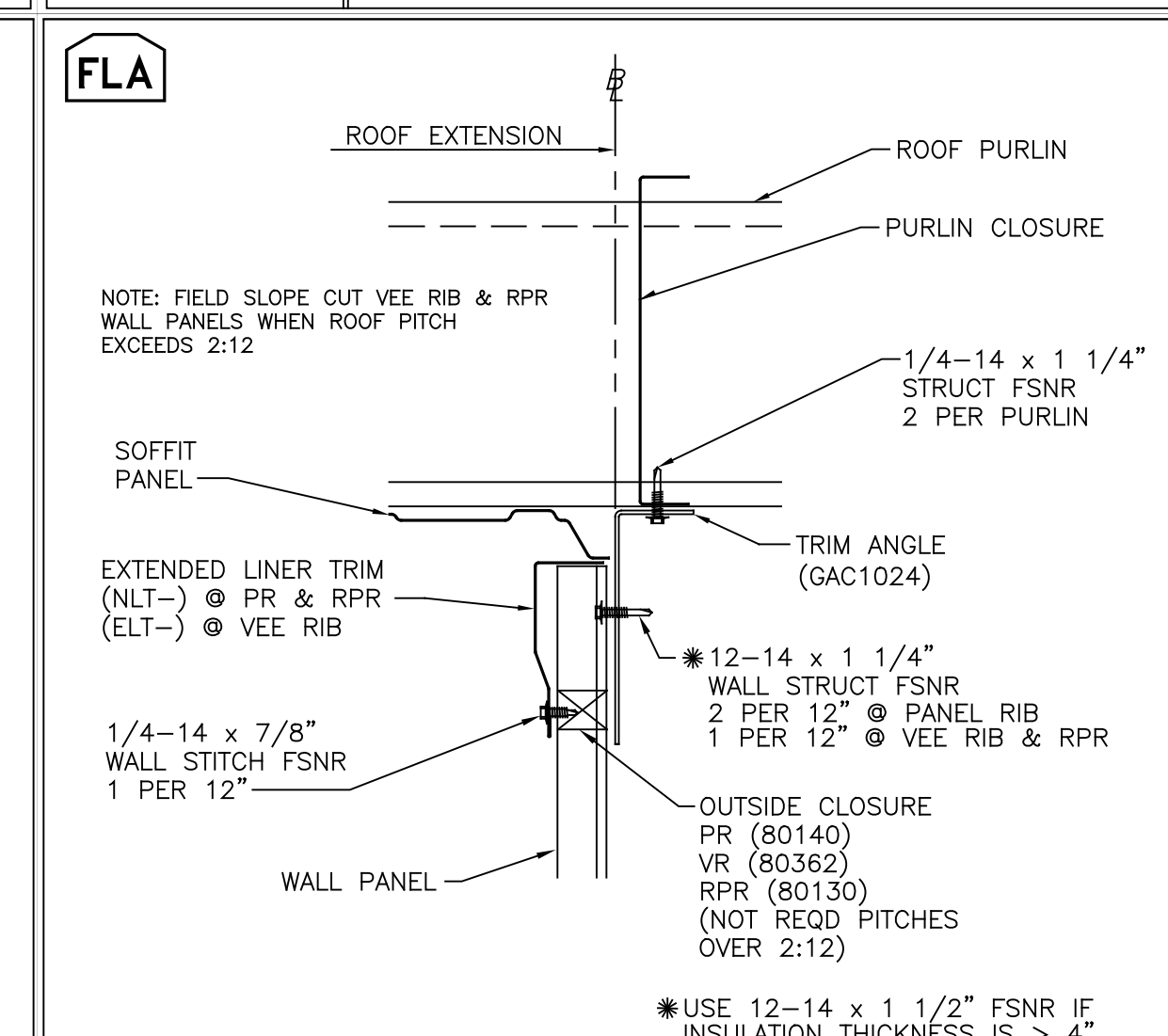
REV. DATE: 06/26/19 | REV. NO. 04
WC04G1 | PANEL RIB WALL FASTENER PATTERNS



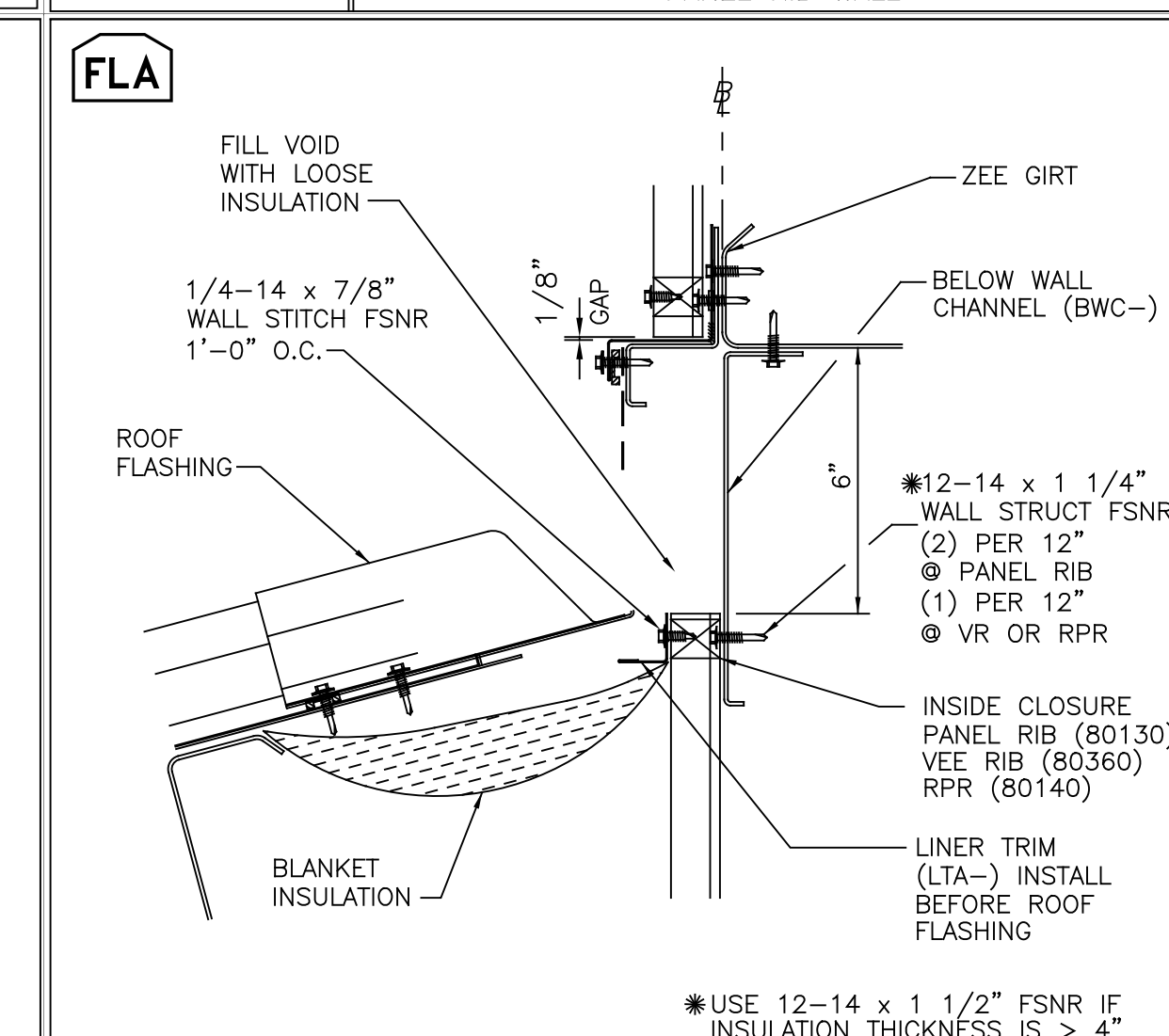
REV. DATE: 06/26/19 | REV. NO. 04
WC11F1 | PR, VR & RPR WALL AT EAVE STANDARD EAVE MEMBER



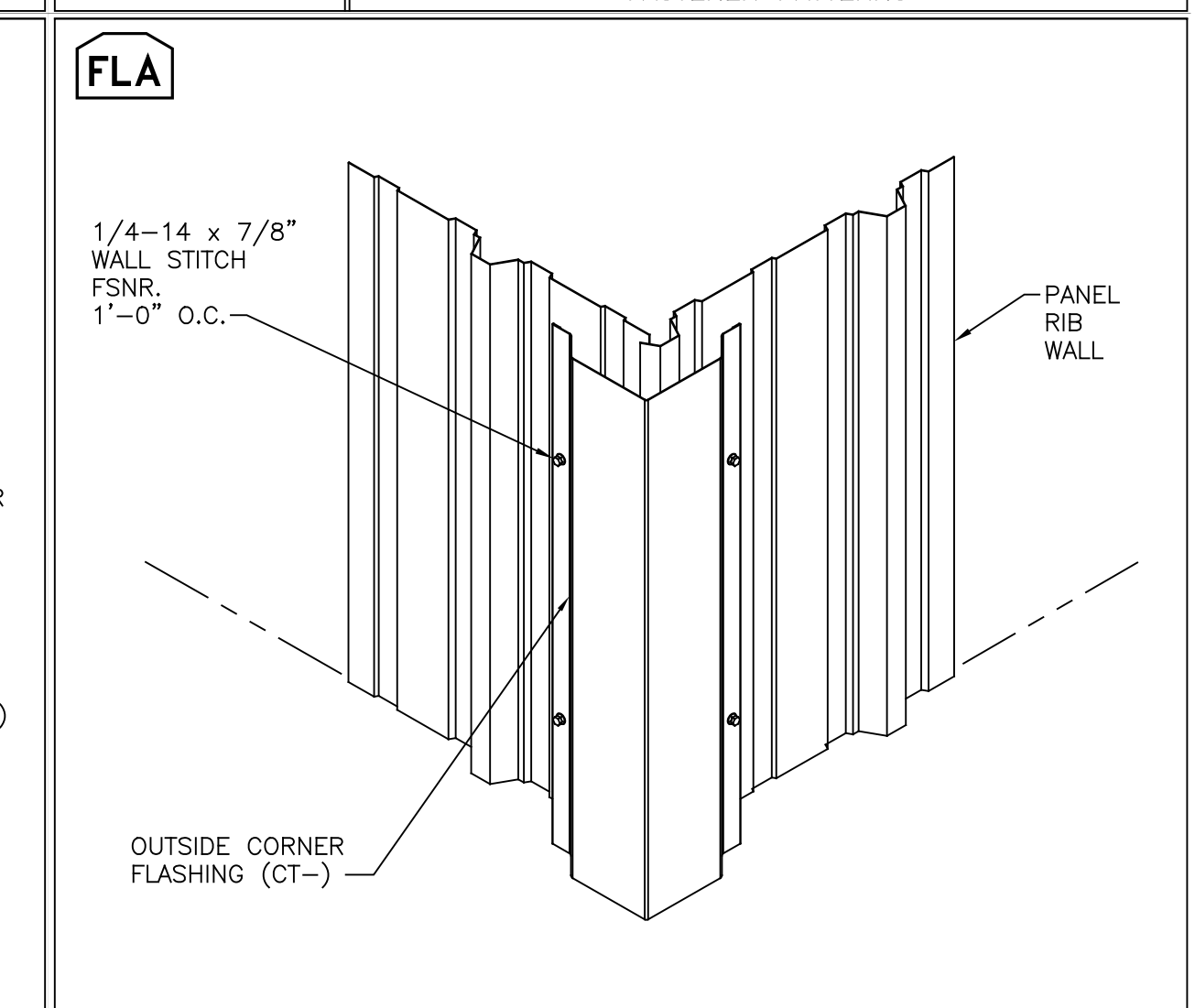
REV. DATE: 06/26/19 | REV. NO. 06
WC11F4 | WALL AT CANOPY ROOF ALL WALL - ALL ROOFS



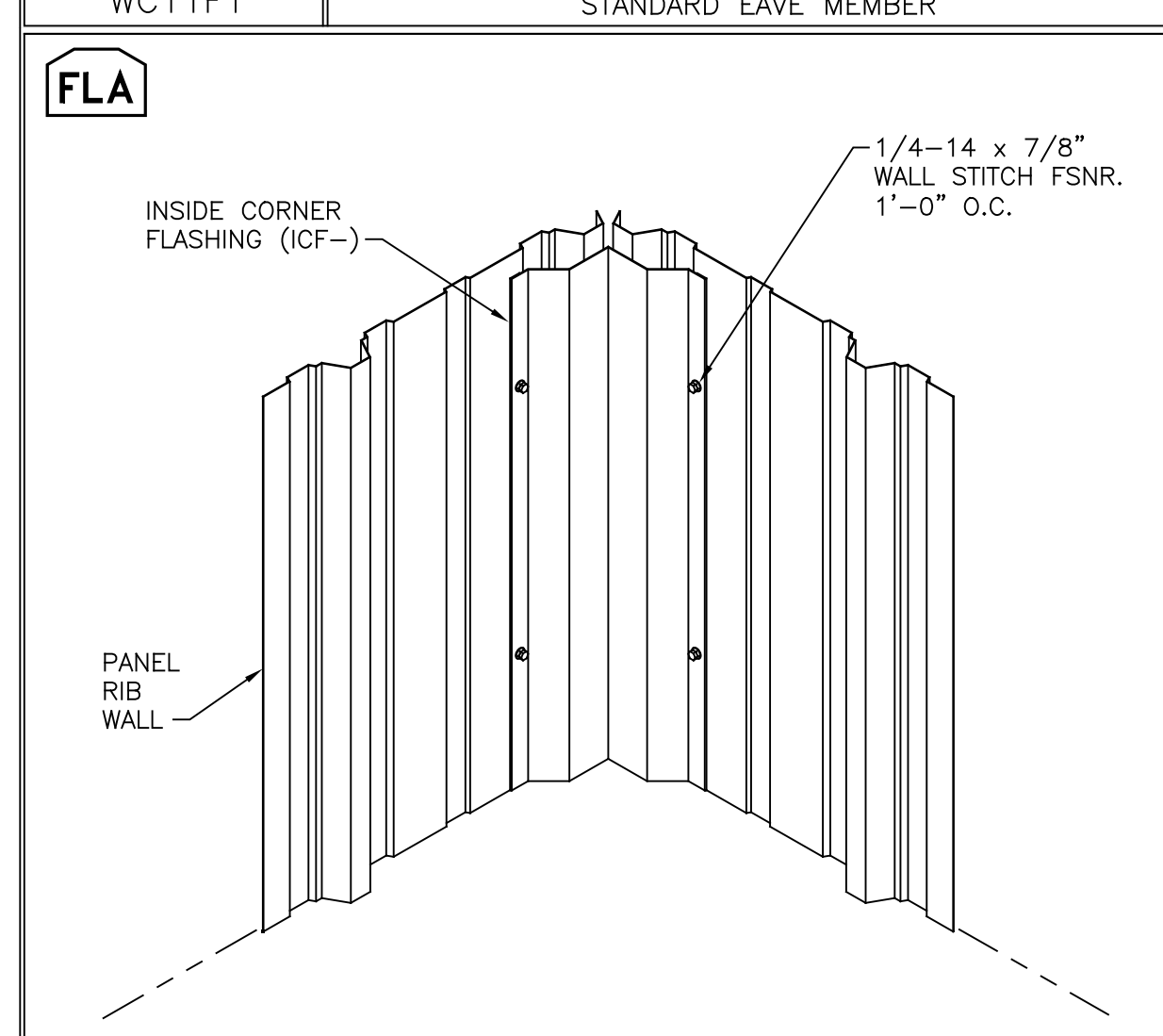
REV. DATE: 06/26/19 | REV. NO. 03
WC12A1 | WALL PANEL AT RAKE EXTENSION PR, VR & RPR WALL WITH SOFFIT (ALL ROOFS)



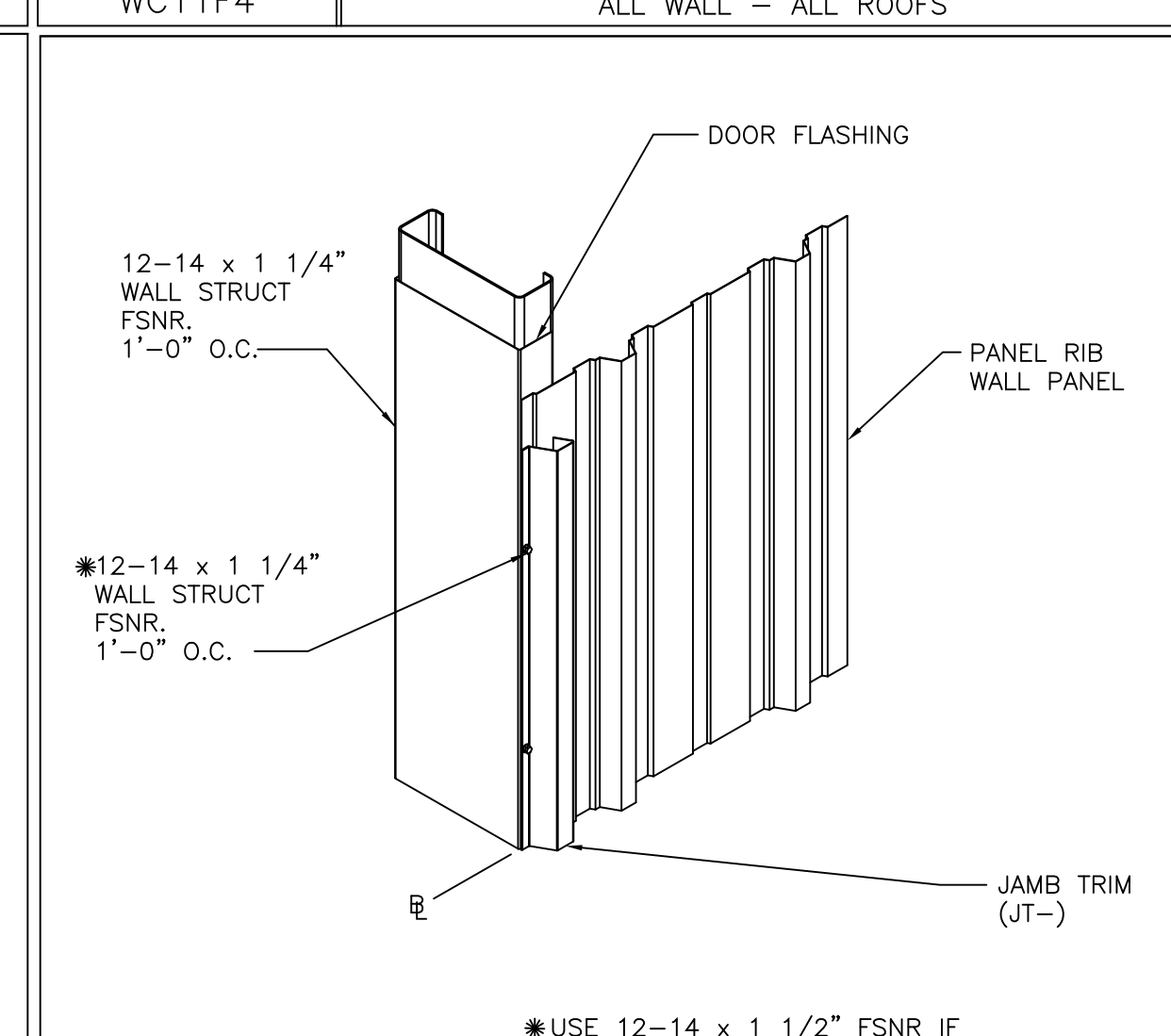
REV. DATE: 06/26/19 | REV. NO. 05
WC14A1 | WALL CONN. BELOW WALL TO ROOF PR, VR OR RPR WALL WITH SSR ROOF



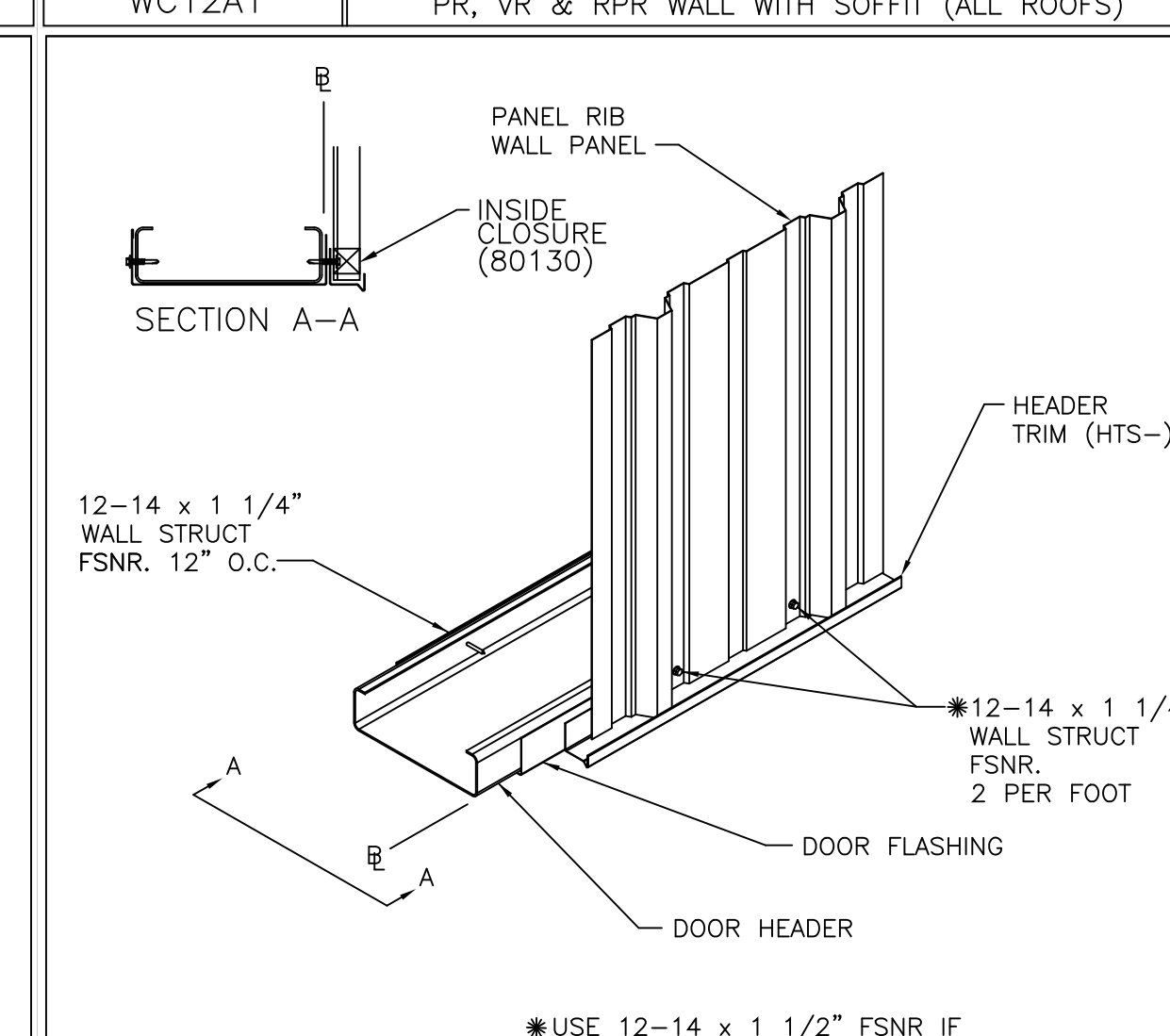
REV. DATE: 06/26/19 | REV. NO. 01
WC20A1 | OUTSIDE CORNER TRIM PANEL RIB WALL



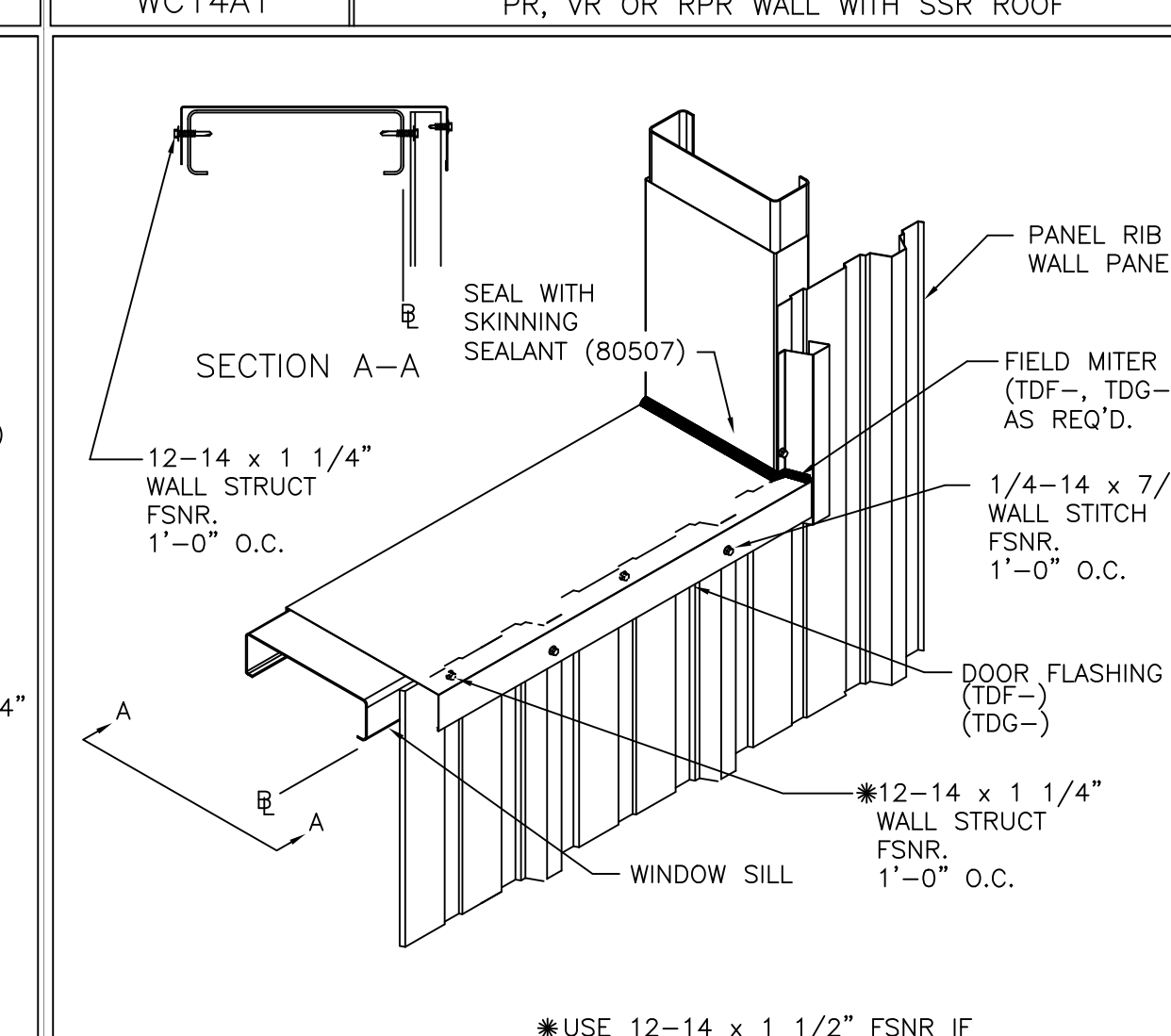
REV. DATE: 06/26/19 | REV. NO. 01
WC21A1 | INSIDE CORNER FLASHING PANEL RIB WALL



REV. DATE: 05/21/18 | REV. NO. 01
WC24A1 | JAMB TRIM AT OVERHEAD DOOR PANEL RIB WALL



REV. DATE: 05/21/18 | REV. NO. 03
WC24A2 | WALL TRIM AT DOOR HEAD OVERHEAD DOOR OPENING



REV. DATE: 05/21/18 | REV. NO. 01
WC24Q4 | SILL TRIM FRAMED OPENING (PANEL RIB)

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STRUCTURAL ENGINEERS
RECEIVED: 08/01/2024

FOR CONSTRUCTION

SEAL 047190
ENGINEER ALAN M. JUNGNITSCH
07/29/2024
BLUESCOPE BUILDINGS NORTH AMERICA, INC.
NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

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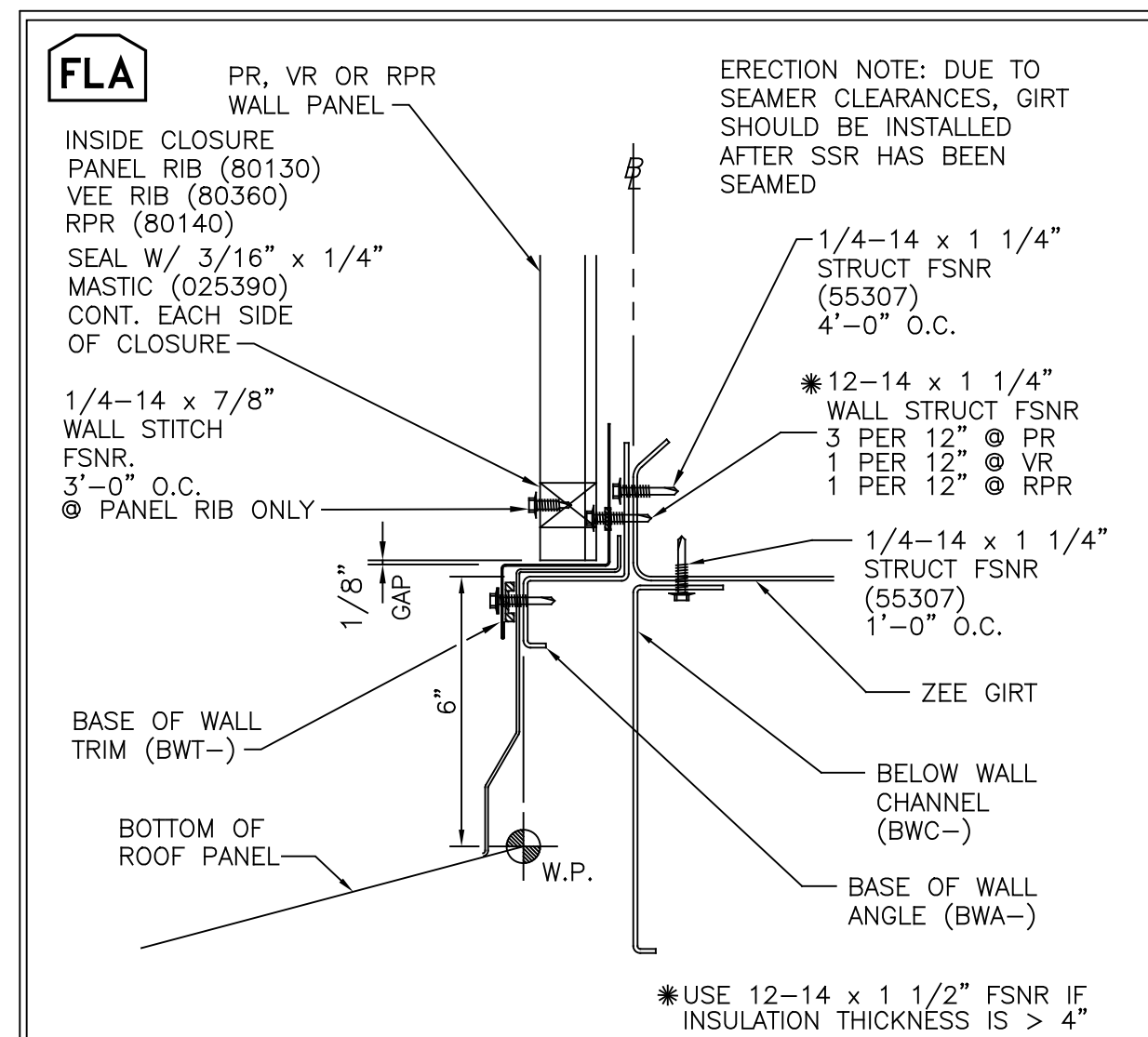
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REV	DATE	BY	DESCRIPTION

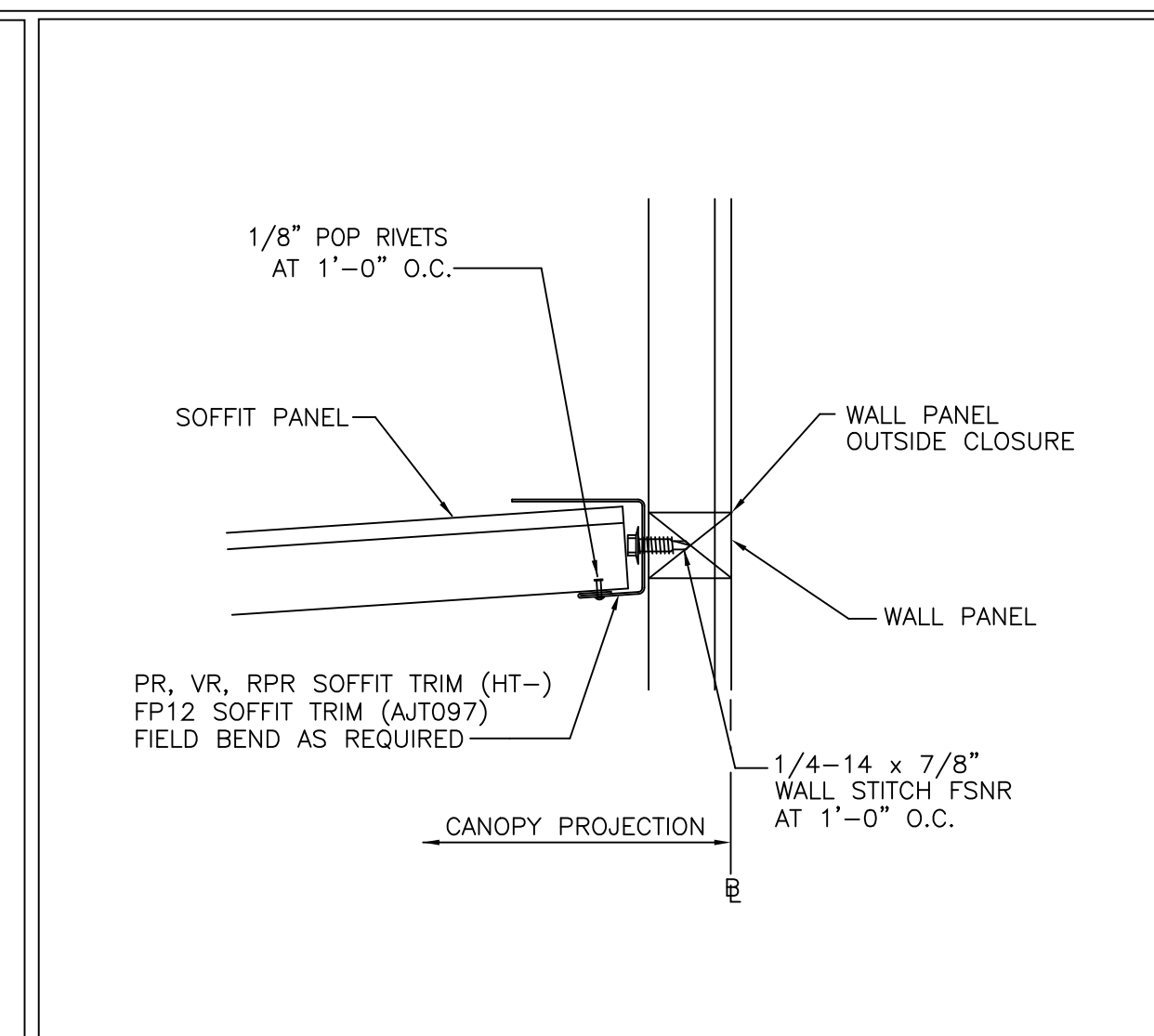
VP Buildings			
3200 Players Club Circle Memphis TN 38125			
BUILDER	Lemartec Corporation		
CUSTOMER	Duke Energy		
LOCATION	Dunn, North Carolina		
PROJECT	Duke Energy Dunn Operations Center - Operations		
BUILDERS PO#	23068 - Ops		
VP VERSION:	24.1.0		

COVERING & TRIM SED'S (e)	
JOBNO	23-016001-01
DATE	5/1/2024
DRAWN/CHECK	LKH SM
PAGE	35

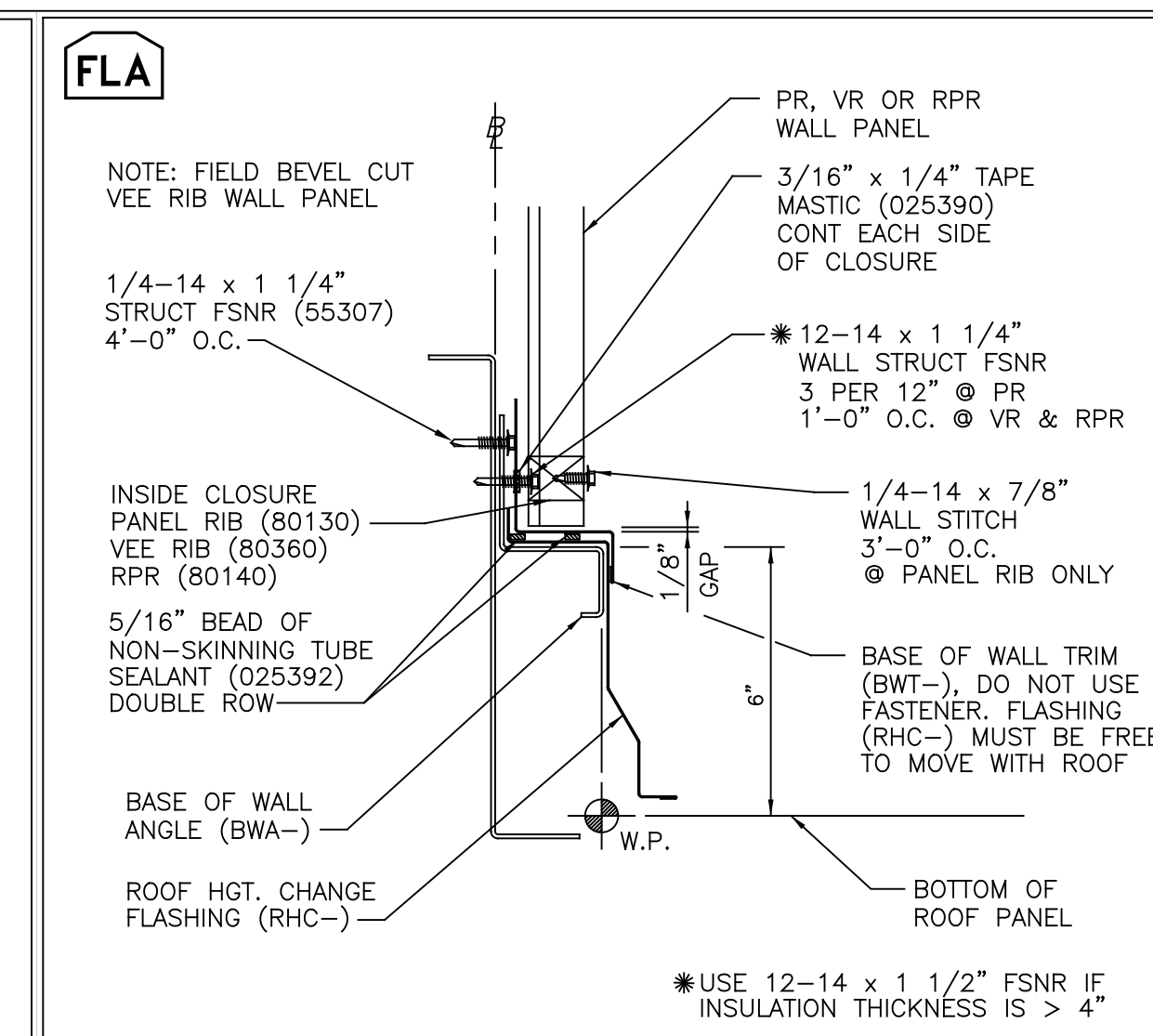
VP BUILDINGS
VARCO PRUDEN
A Bluescope Steel Company
VP VERSION: 24.1.0
a division of BlueScope Buildings North America, Inc.



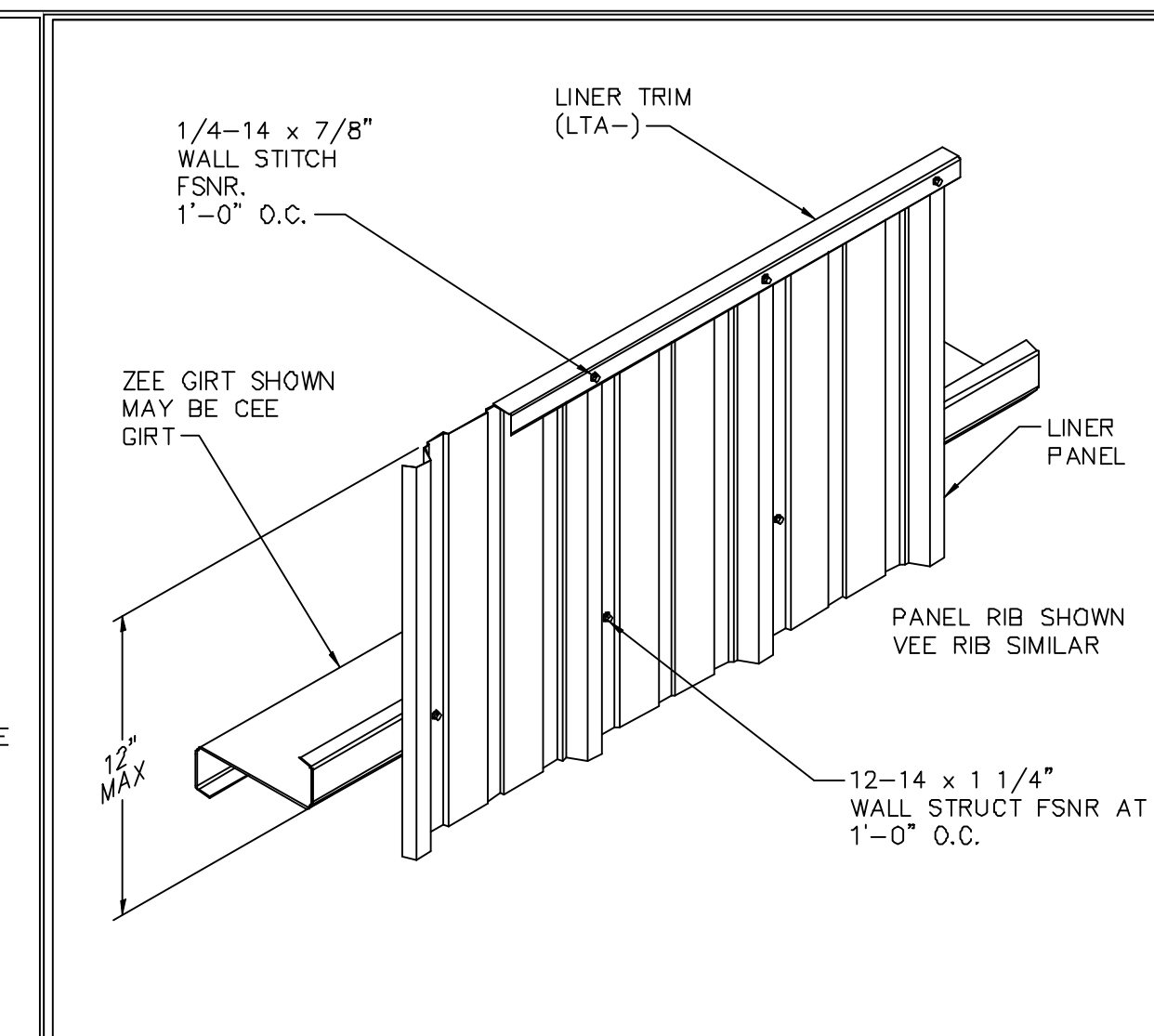
REV. DATE: 06/26/19 | REV. NO. 05 | WALL BASE AT SSR WALL TO RF. METAL PR, VR OR RPR WALL (NON-ICE DAMMING) FLASHING | WC50A1



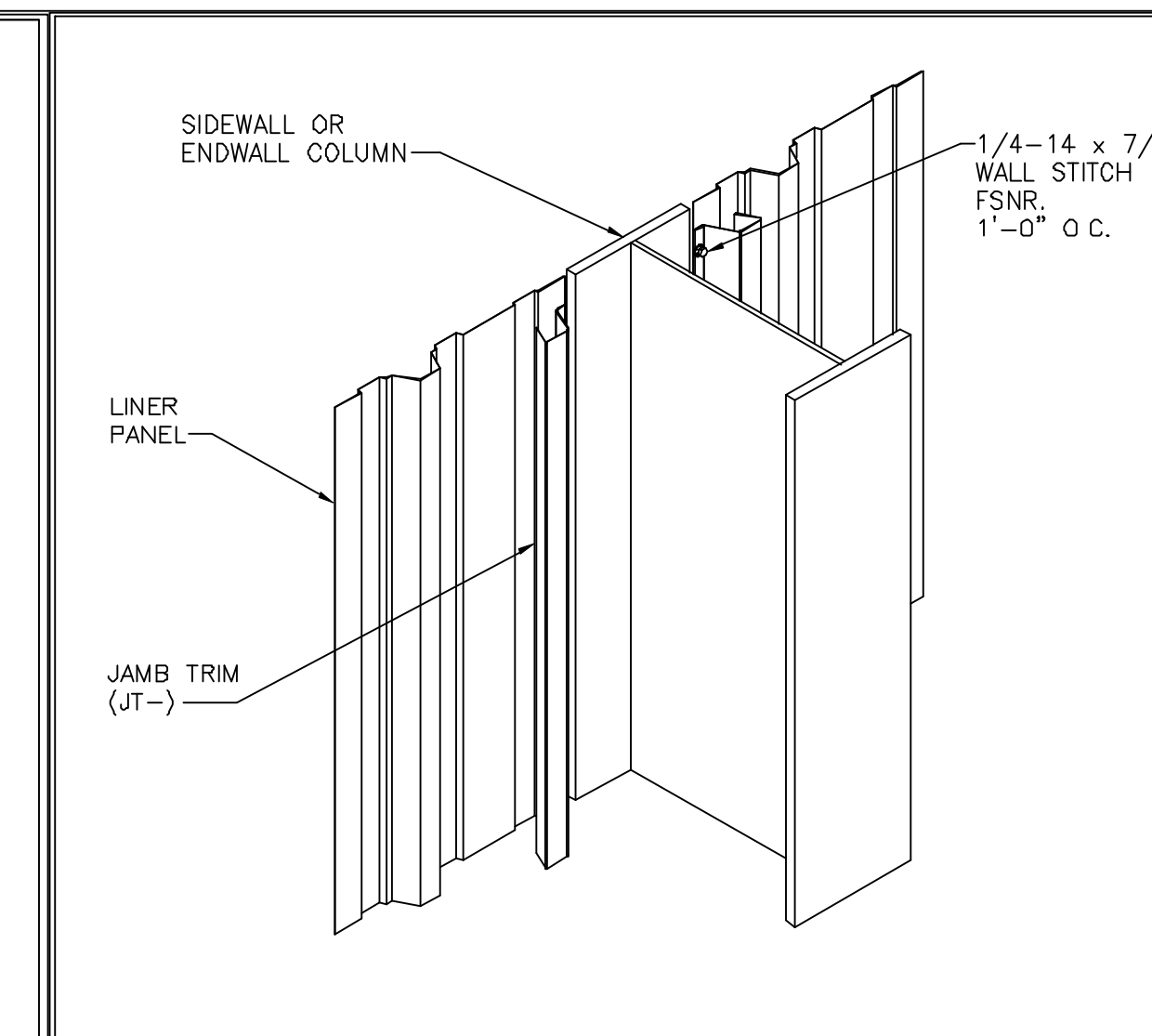
REV. DATE: 03/14/19 | REV. NO. 01 | SOFFIT TRIM AT CANOPY PR, VR, & RPR WALL PANEL | WC51CA



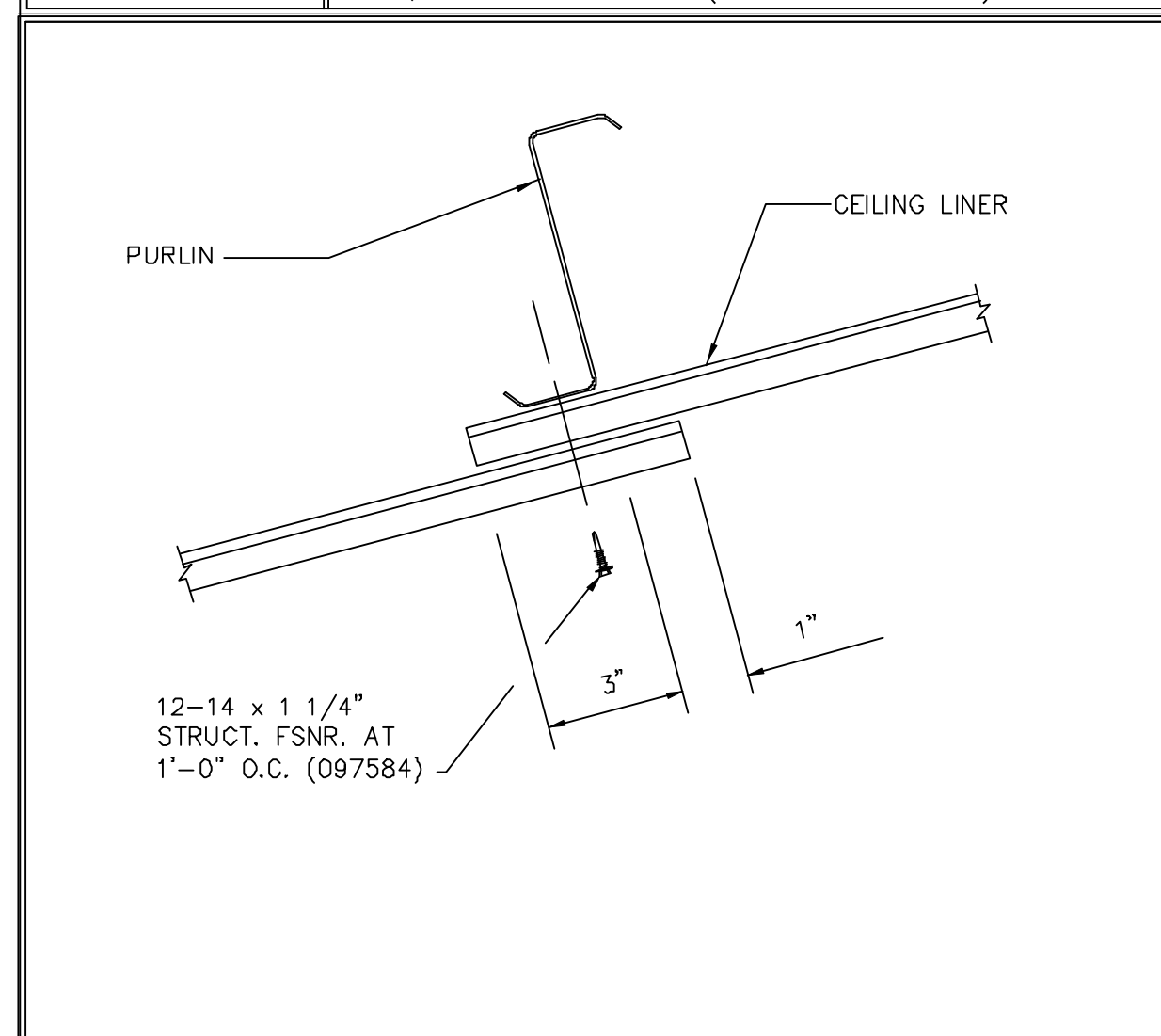
REV. DATE: 06/26/19 | REV. NO. 04 | BASE OF WALL AT RF HT CHANGE PR, VR OR RPR WALL (NON-ICE DAMMING) METAL FLASHING | WC52A1



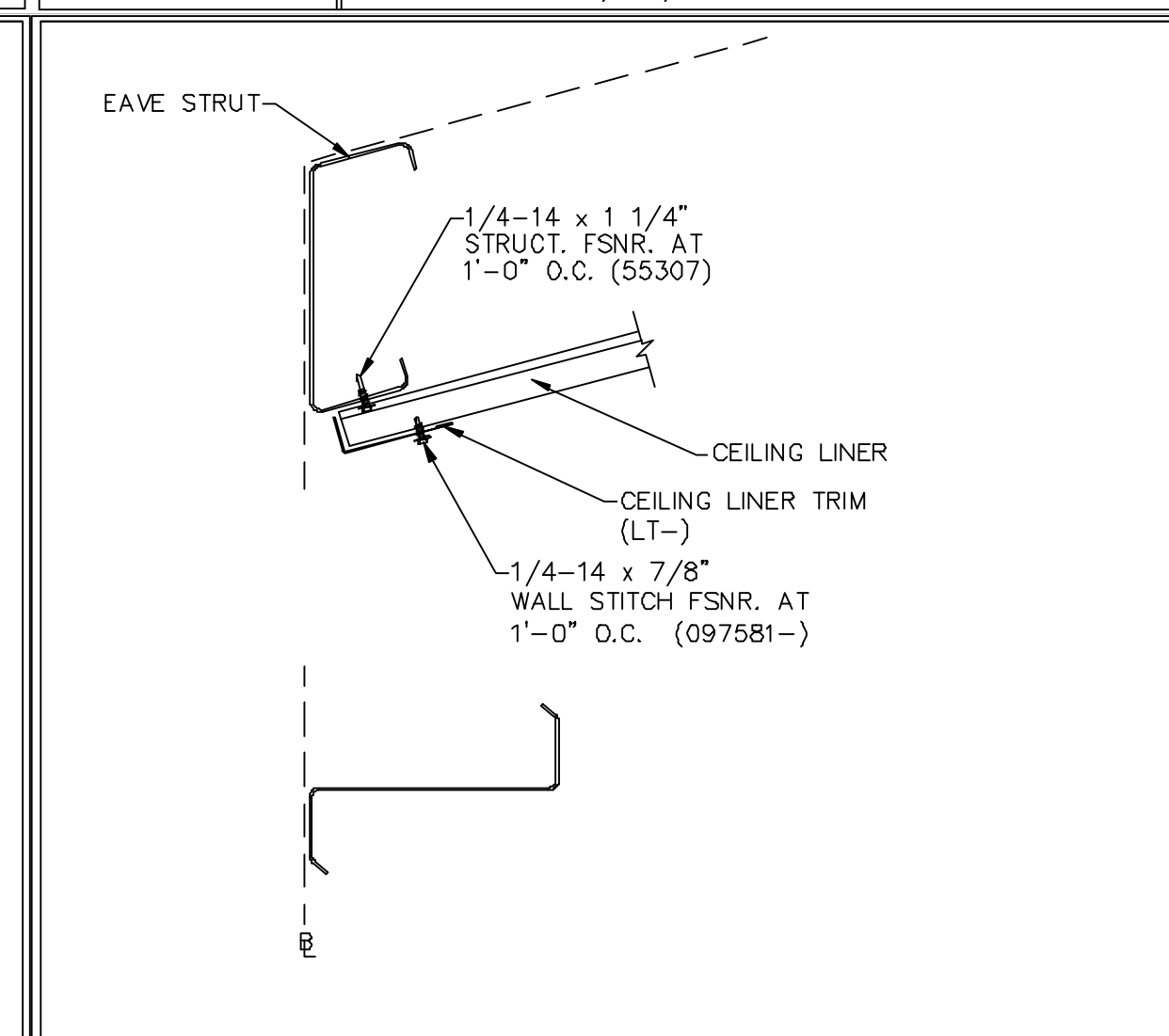
REV. DATE: 06/27/13 | REV. NO. 01 | LINER PANEL ATTACHMENT PARTIAL HEIGHT LINER | WC61A7



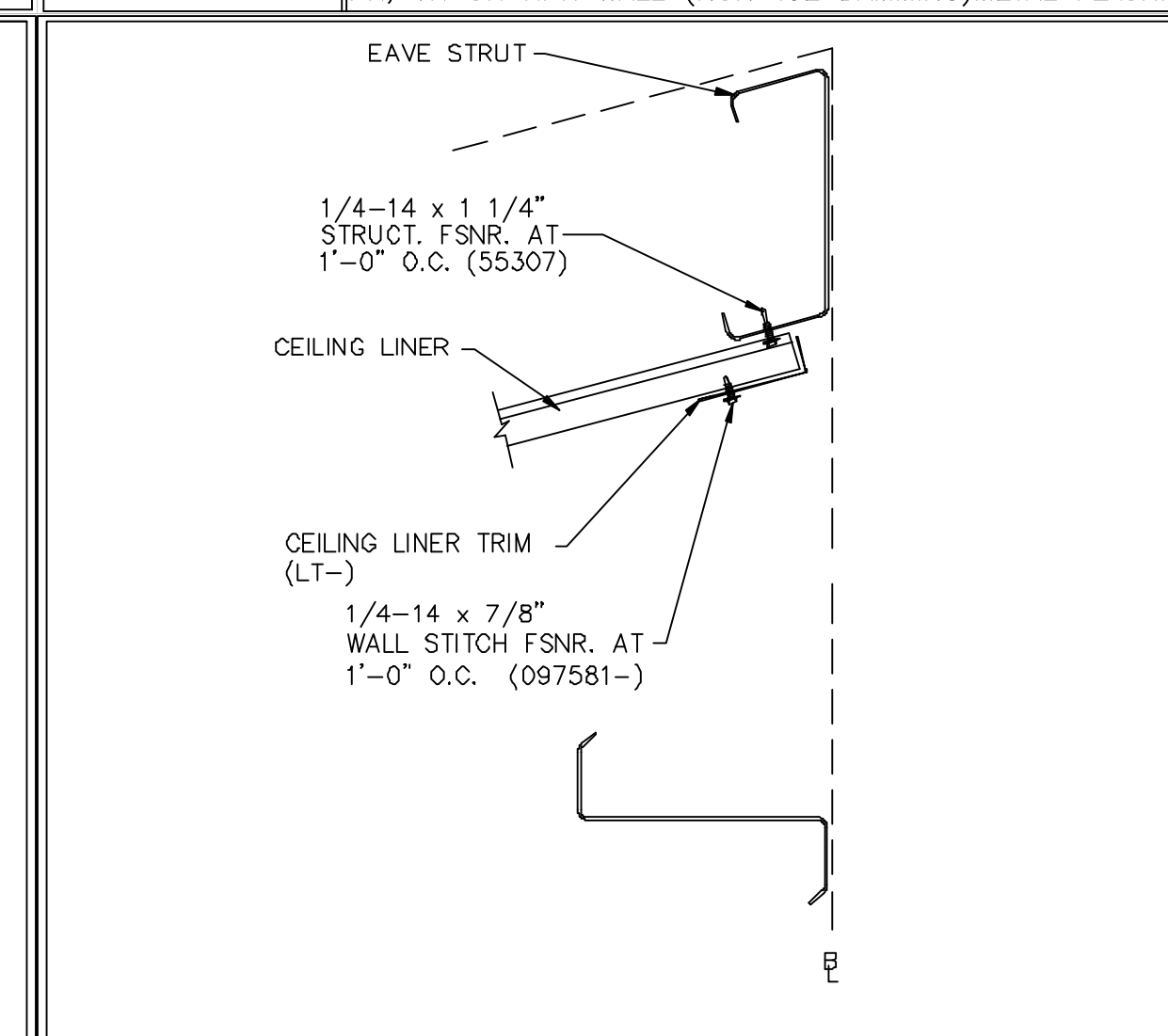
REV. DATE: 07/01/09 | REV. NO. 00 | LINER PANEL ATTACHMENT TRIM AT COLUMN; OUTSET WALL | WC61A9



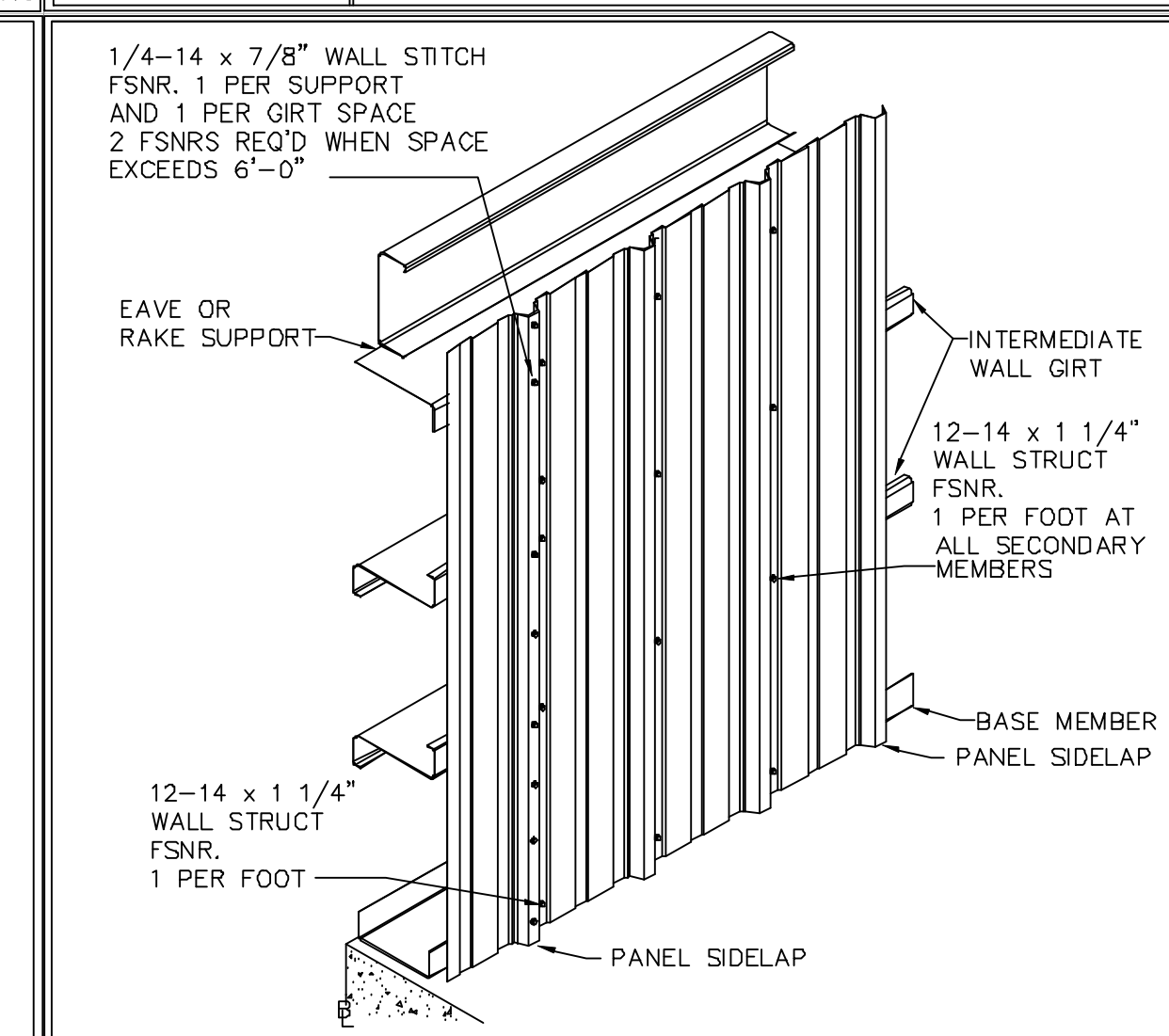
REV. DATE: 04/09/15 | REV. NO. 02 | CEILING LINER PANEL LAP | WC61ED



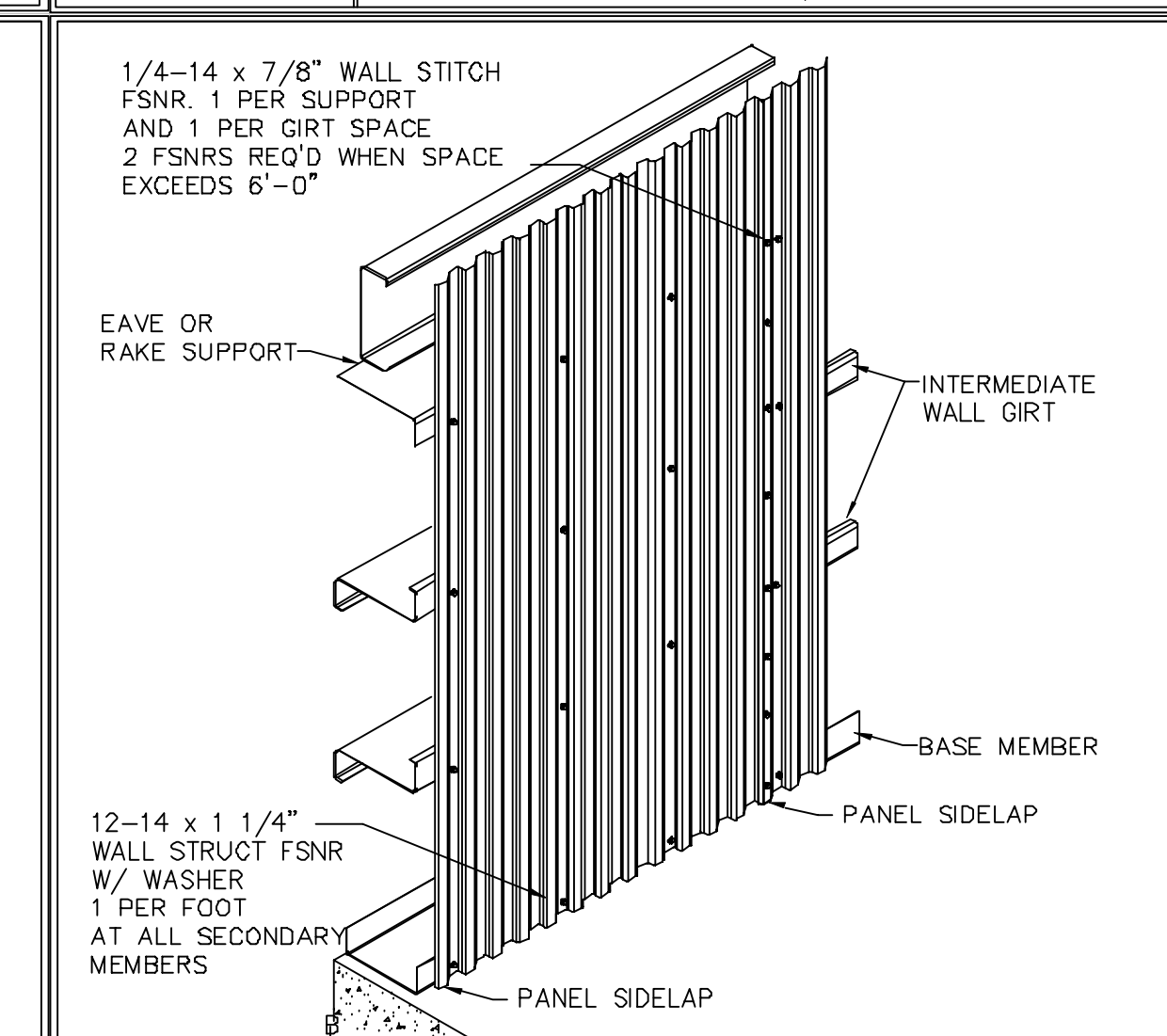
REV. DATE: 12/17/14 | REV. NO. 00 | LINER PANEL ATTACHMENT LOW EAVE CEILING LINER | WCV022



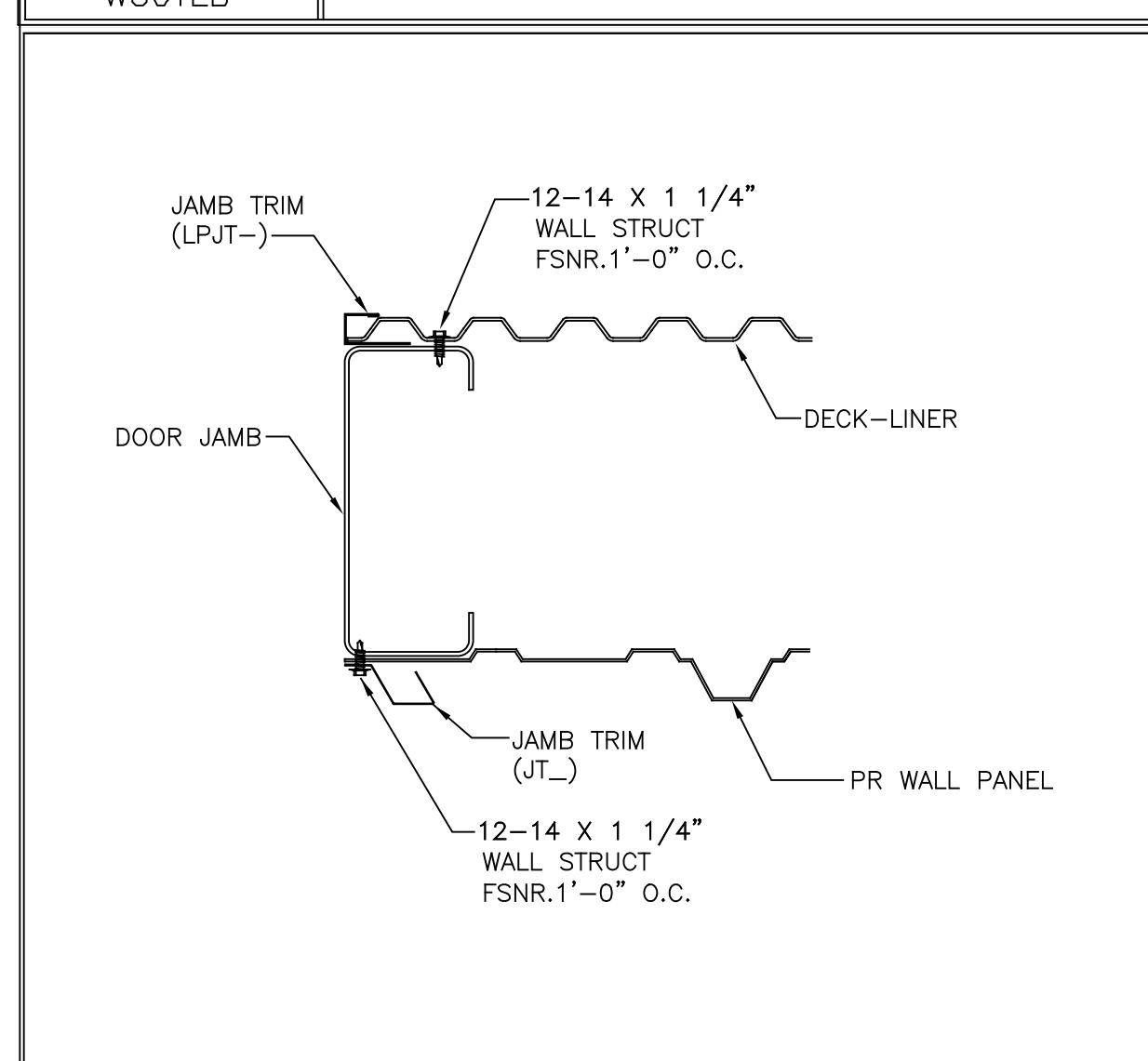
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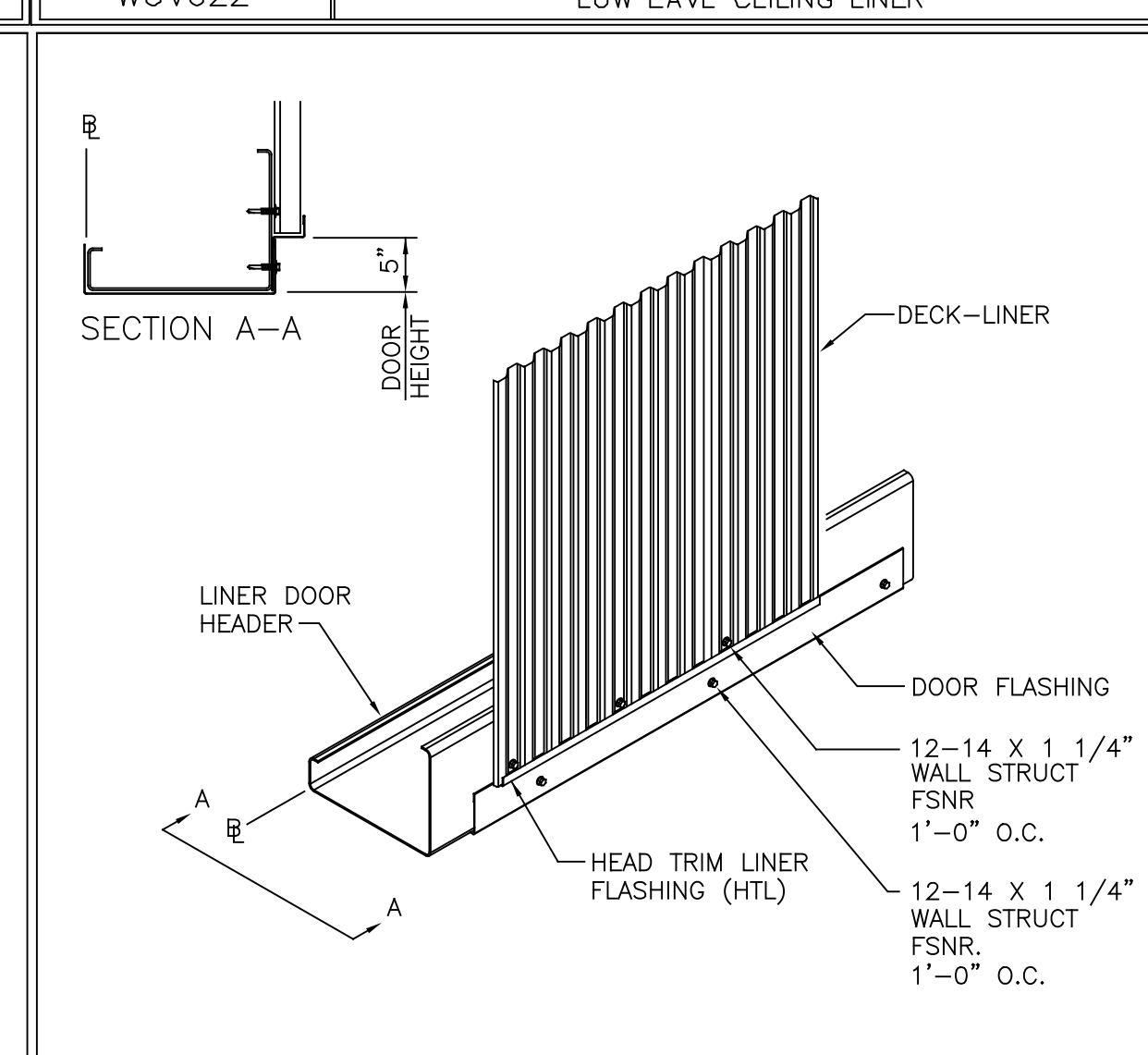
REV. DATE: 06/19/15 | REV. NO. 00 | PANEL RIB LINER FASTENER PATTERNS | WCV060



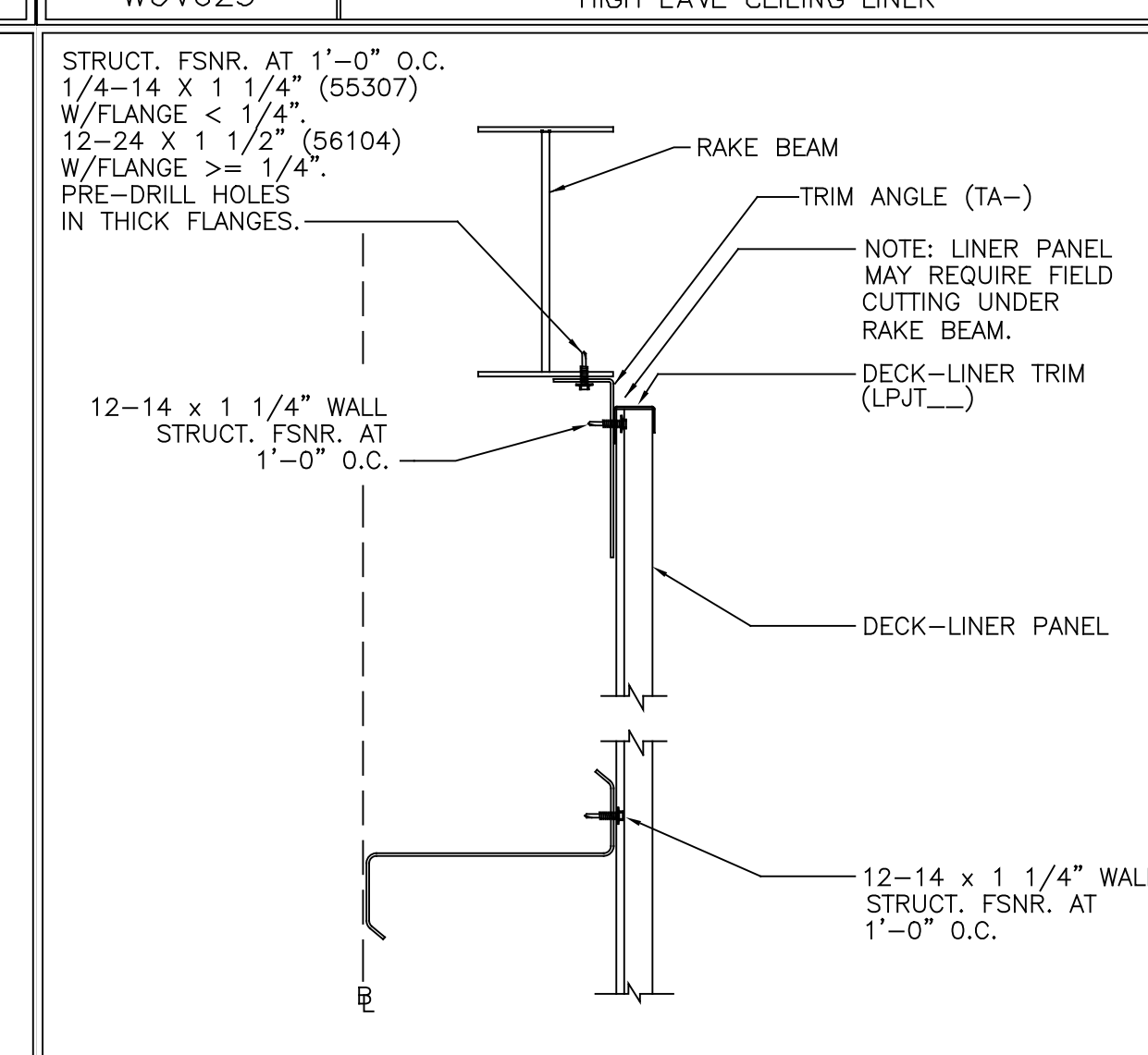
REV. DATE: 06/19/15 | REV. NO. 00 | DECK-LINER FASTENER PATTERNS | WCV062



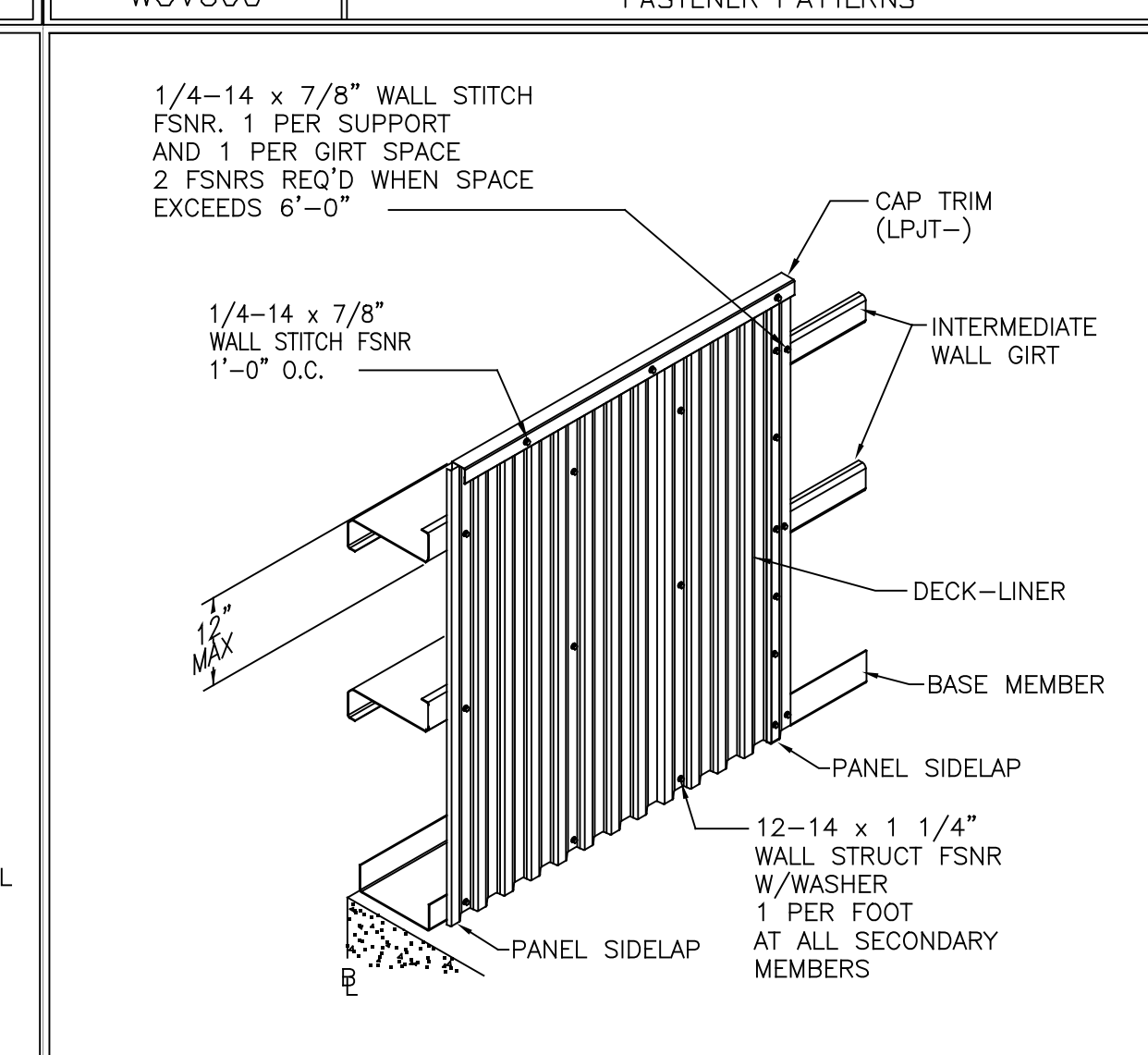
REV. DATE: 10/28/19 | REV. NO. 00 | DECK-LINER JAMB TRIM AT OVERHEAD DOOR PANEL RIB WALL | WLVO07



REV. DATE: 10/28/19 | REV. NO. 00 | DECK-LINER TRIM AT DOOR HEAD OVERHEAD DOOR OPENING | WLVO08

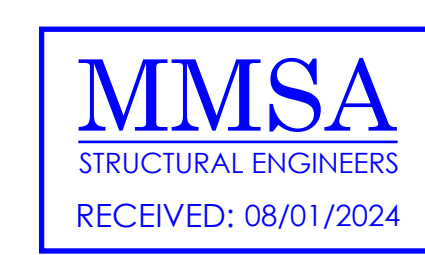


REV. DATE: 10/28/19 | REV. NO. 00 | DECK-LINER PANEL ATTACHMENT FULL HEIGHT AT ENDWALL (8.5" INSET) | WLVO12



REV. DATE: 10/28/19 | REV. NO. 00 | DECK-LINER PANEL ATTACHMENT PARTIAL HEIGHT LINER | WLVO13

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07/29/2024
BLUESCOPE BUILDINGS NORTH AMERICA, INC.
NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

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REV	DATE	BY	DESCRIPTION

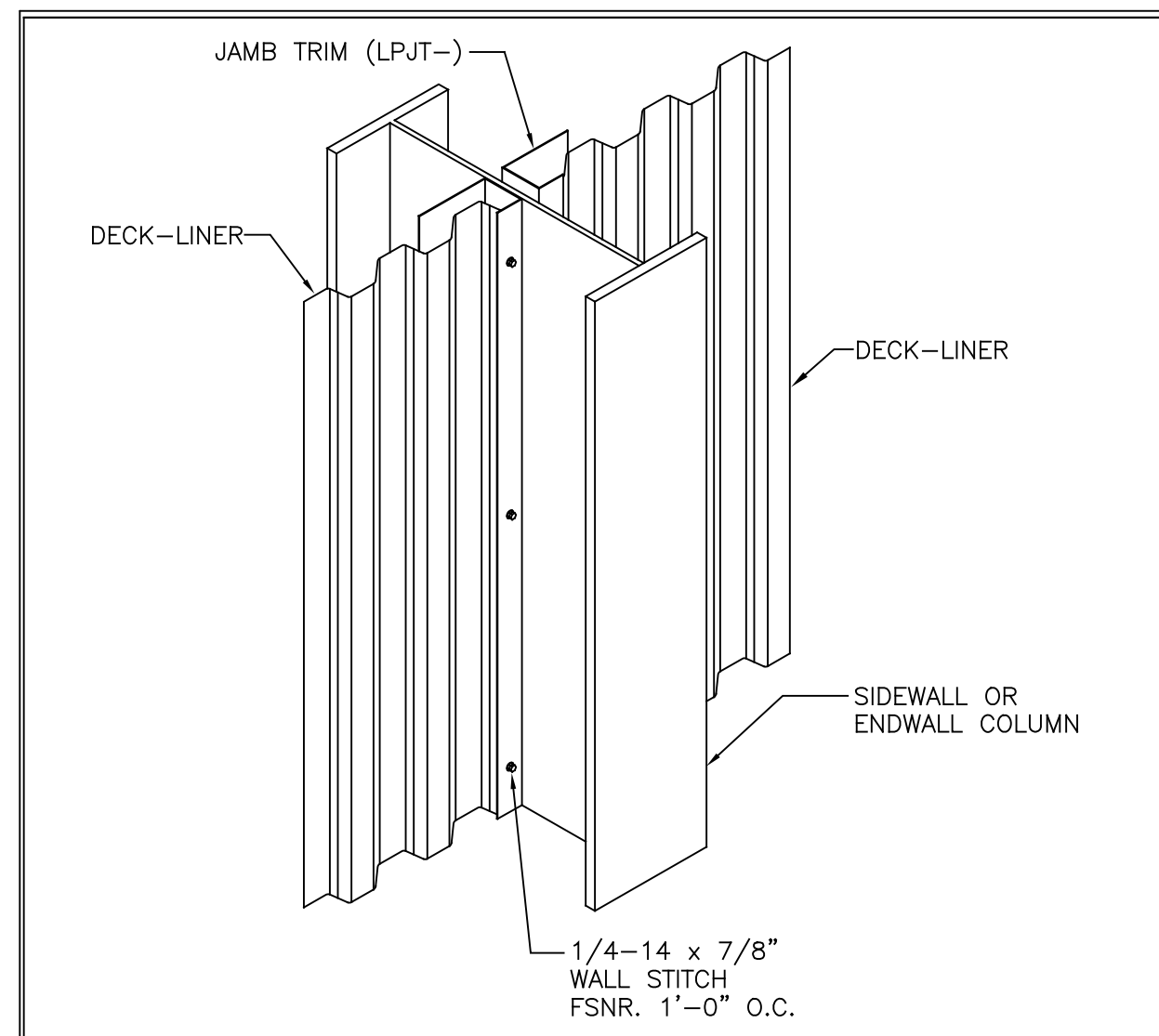
VP Buildings			
3200 Players Club Circle Memphis TN 38125			
BUILDER	Lemartec Corporation		
CUSTOMER	Duke Energy		
LOCATION	Dunn, North Carolina		
PROJECT	Duke Energy Dunn Operations Center - Operations		
BUILDERS PO#	23068 - Ops		
NTS			
4/16/2024 SEDSheet	10:35:00		

COVERING & TRIM SED'S (f)	
BUILDER	Lemartec Corporation
CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center - Operations
BUILDERS PO#	23068 - Ops
VPC VERSION:	24.1.0
FILENAME:	Duke Energy - Ops

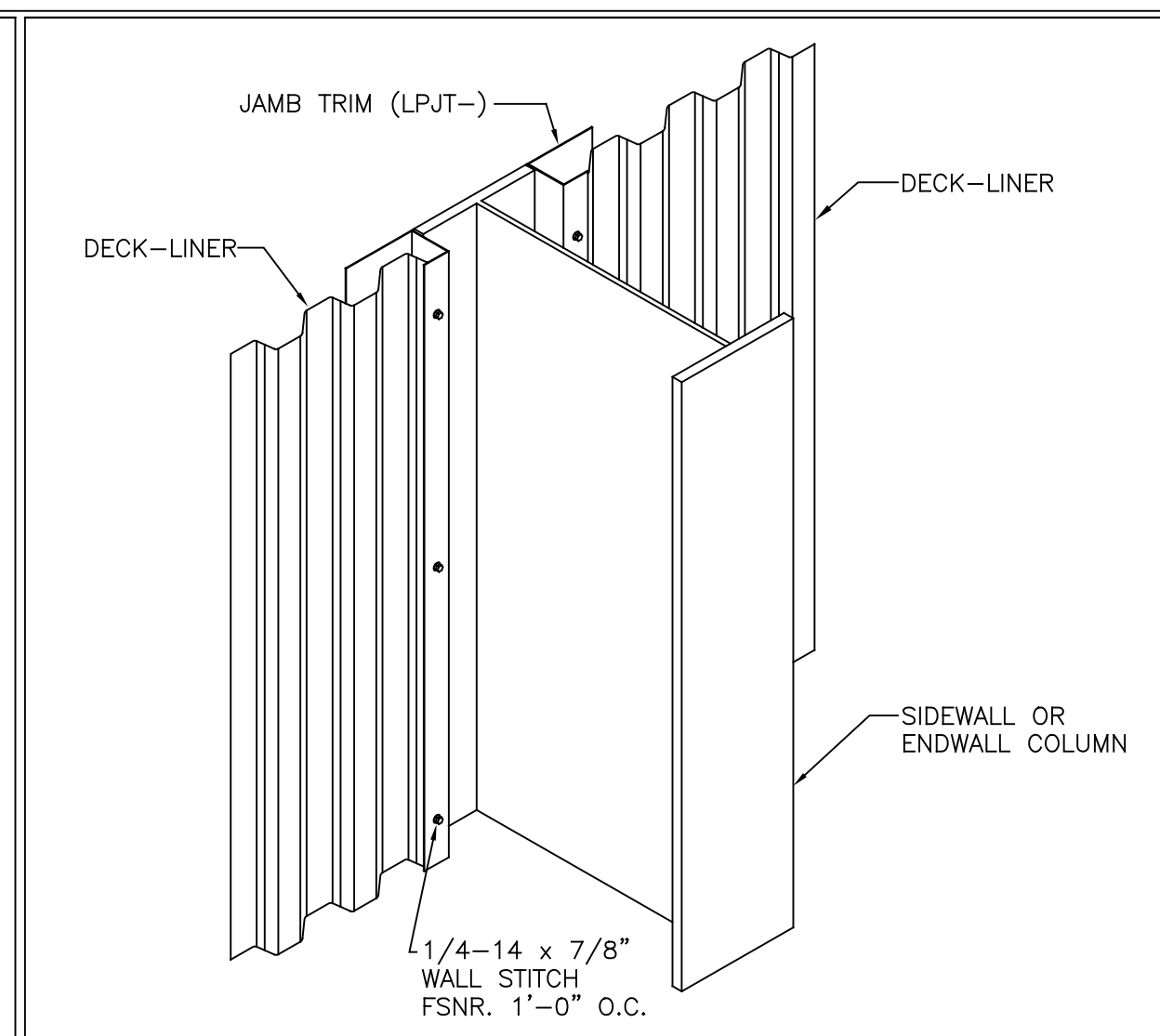
JOBNO	23-016001-01
DATE	5/1/2024
DRAWN/CHECK	LKH SM
PAGE	36

VP BUILDINGS
VARCO PRUDEN
A BlueScope Steel Company

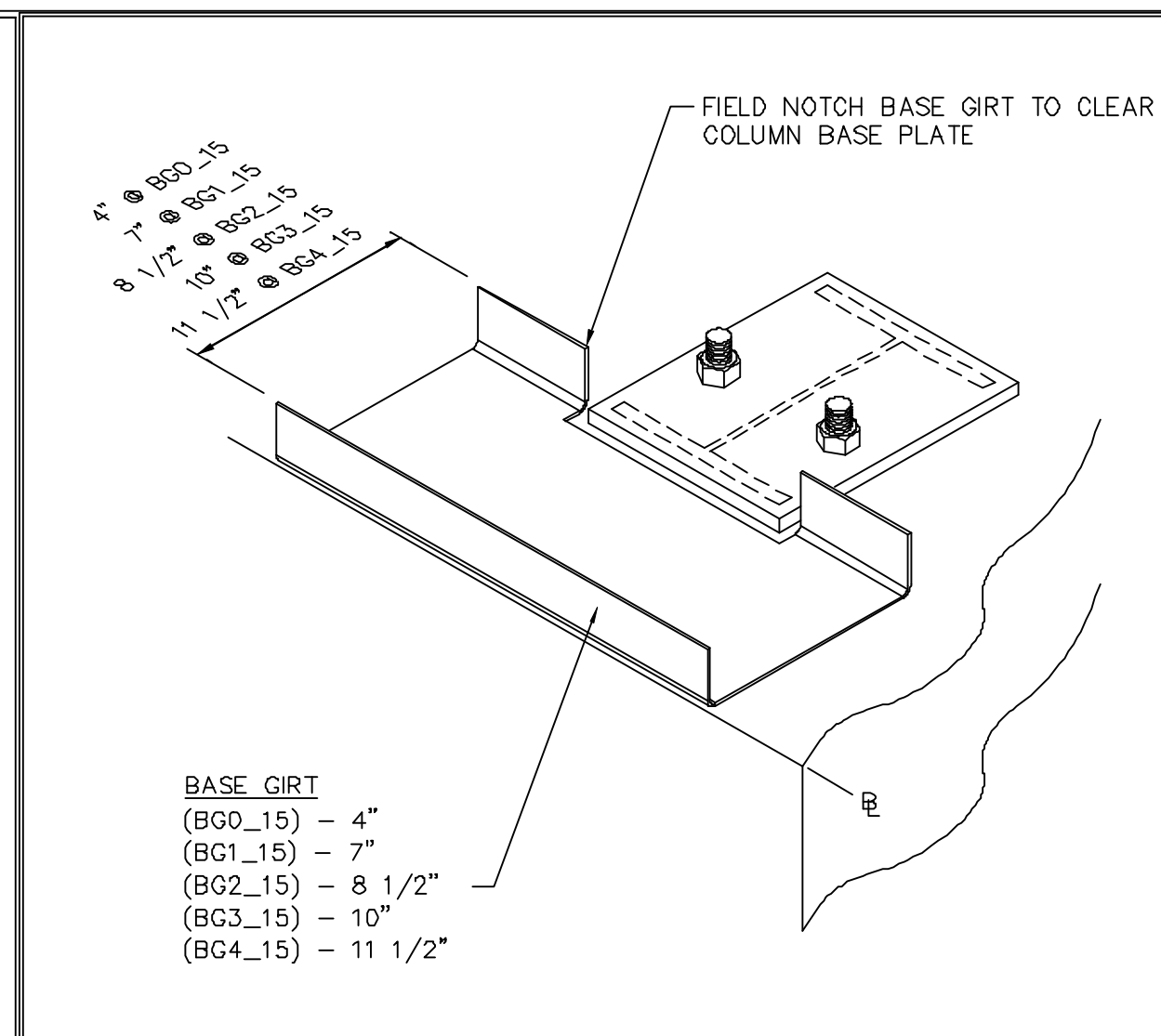
a division of BlueScope Buildings North America, Inc.



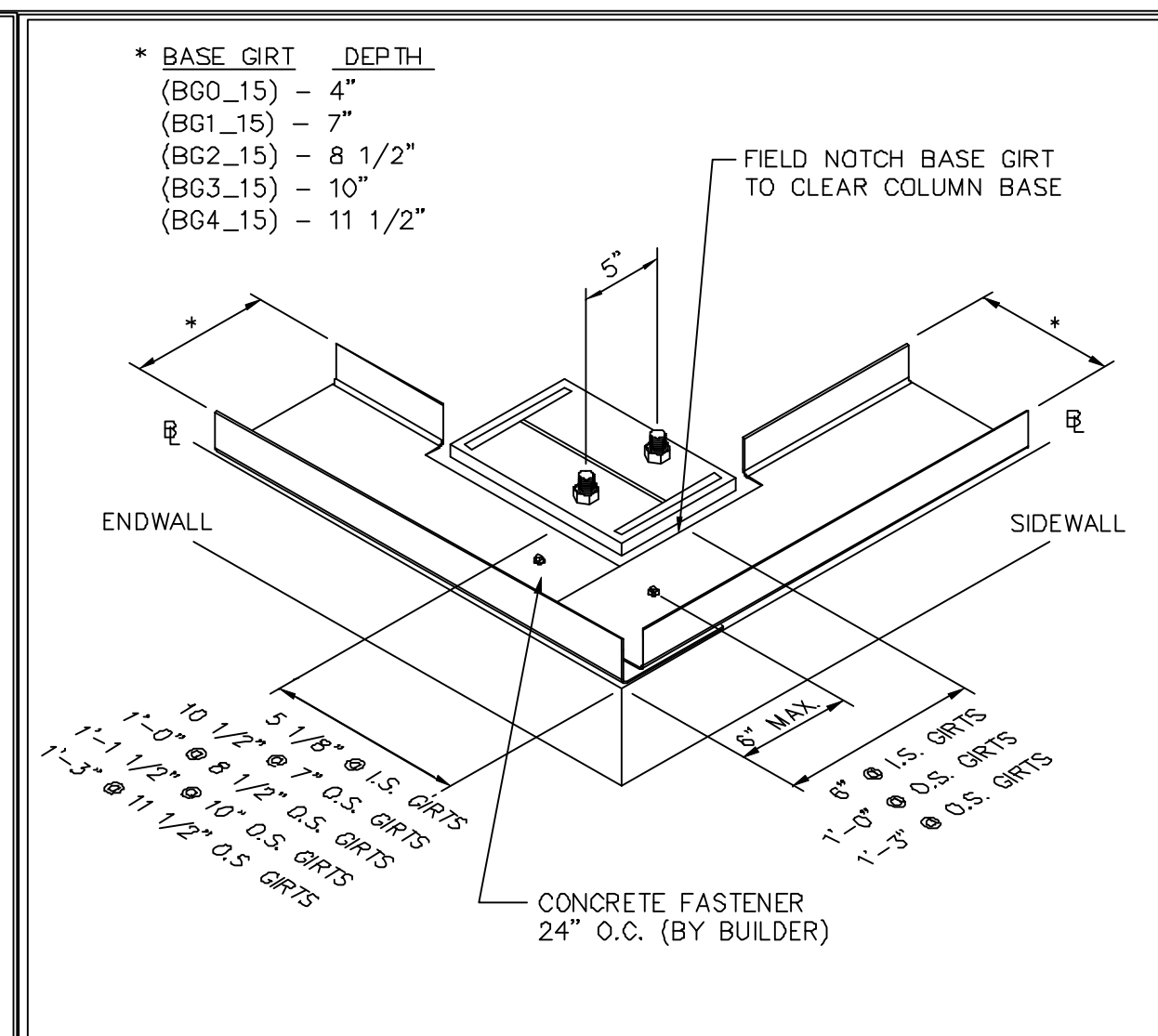
REV. DATE: 10/28/19 | REV. NO. 00
 WLVO14 DECK-LINER PANEL ATTACHMENT TRIM AT COLUMN; INSET WALL



REV. DATE: 10/28/19 | REV. NO. 00
 WLVO15 DECK-LINER PANEL ATTACHMENT TRIM AT COLUMN; OUTSET WALL



REV. DATE: 06/11/13 | REV. NO. 01
 WS27B2 BASE GIRTS AT COLUMN ALL BASE GIRTS DEPTHS



REV. DATE: 06/13/13 | REV. NO. 01
 WS27D2 BASE GIRTS AT CORNER COLUMN ALL BASE GIRTS DEPTHS

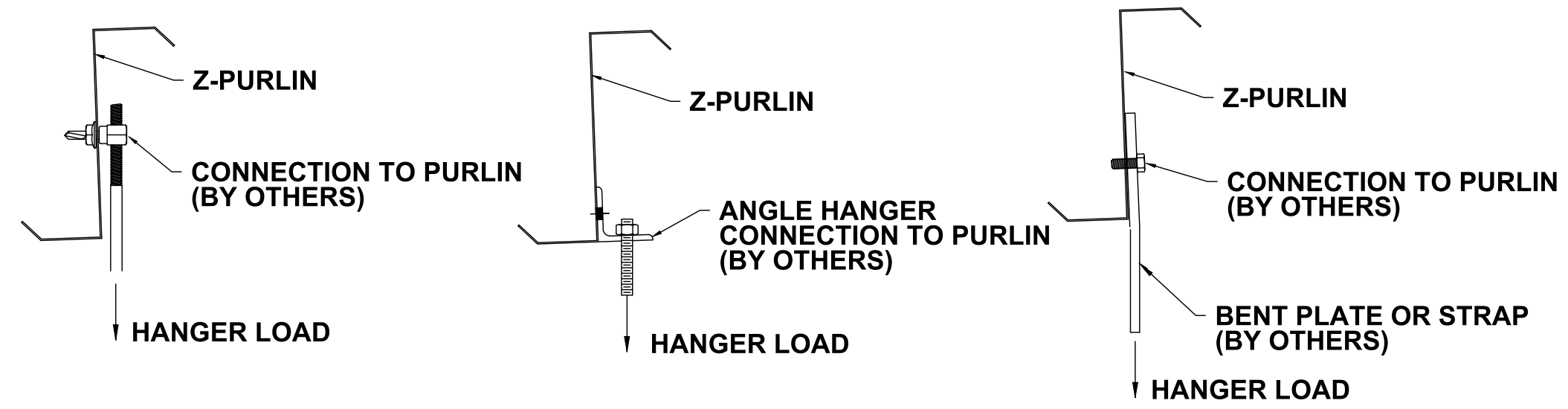


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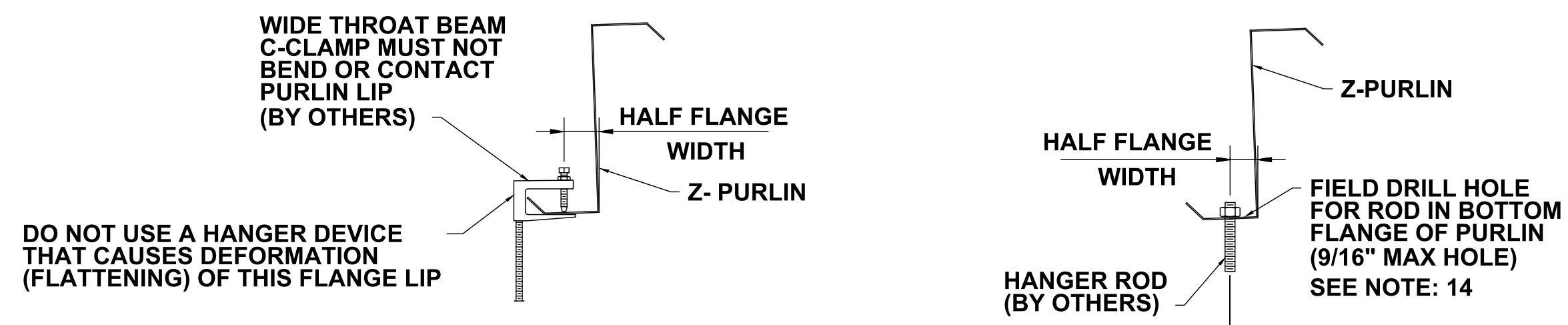
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DRAWN/CHECK	LKH SM																							
PAGE	37																							



WEB HANGERS

FOR 1/2" DIAM. BOLT TO PURLIN CONNECTION-- MAX HANGER LOAD=1500lbs
PURLIN MUST BE SPECIFICALLY DESIGNED FOR LOADS GREATER THAN 500 LB. SEE NOTE: 2.



VERIFY OVERALL PURLIN DESIGN CAN TAKE APPLIED LOADS. SEE NOTE: 2

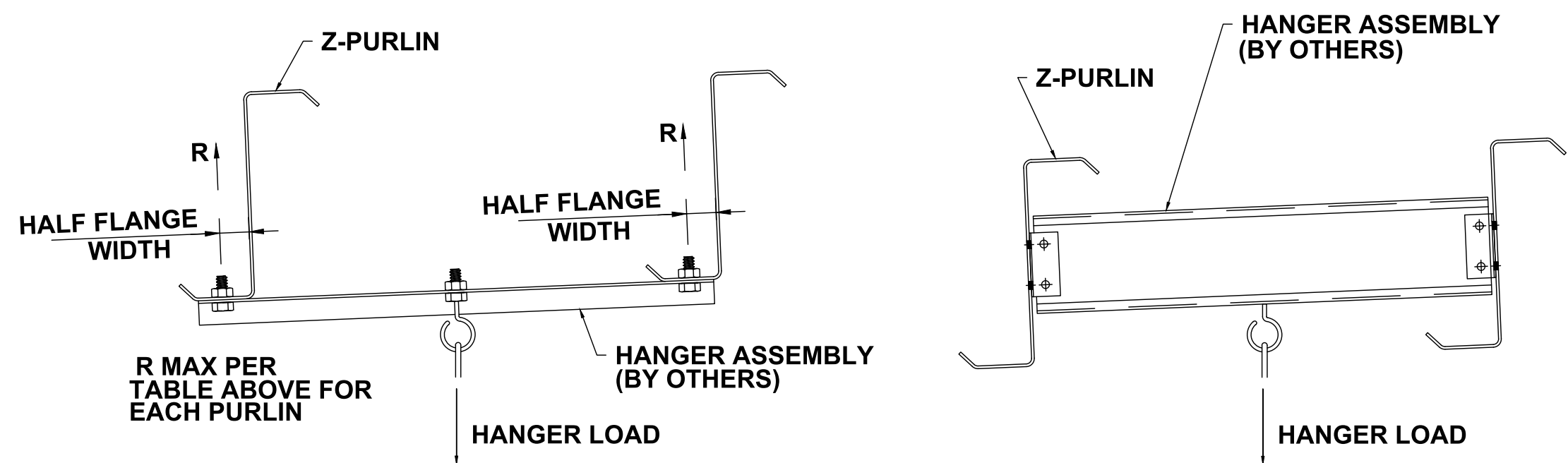
MAXIMUM LOAD SUSPENDED FROM BOTTOM FLANGE (LOCATED AT HALF-FLANGE WIDTH)			
THICKNESS	MAX LOAD	THICKNESS	MAX LOAD
0.060"	110lbs	0.088"	200lbs
0.068"	120lbs	0.098"	250lbs
0.073"	140lbs		
0.079"	180lbs	0.113"	250lbs

FOR LOADS LOCATED MORE THAN HALF FLANGE WIDTH FROM WEB, USE HALF OF THE LOADS SHOWN ABOVE.

**BOTTOM FLANGE CLAMP HANGER
(TOP FLANGE SIMILAR)**

**BOTTOM FLANGE ROD HANGER
(TOP FLANGE SIMILAR)**

DO NOT USE ANY OF THE DETAILS ABOVE IF ROOF SLOPE IS GREATER THAN 4:12

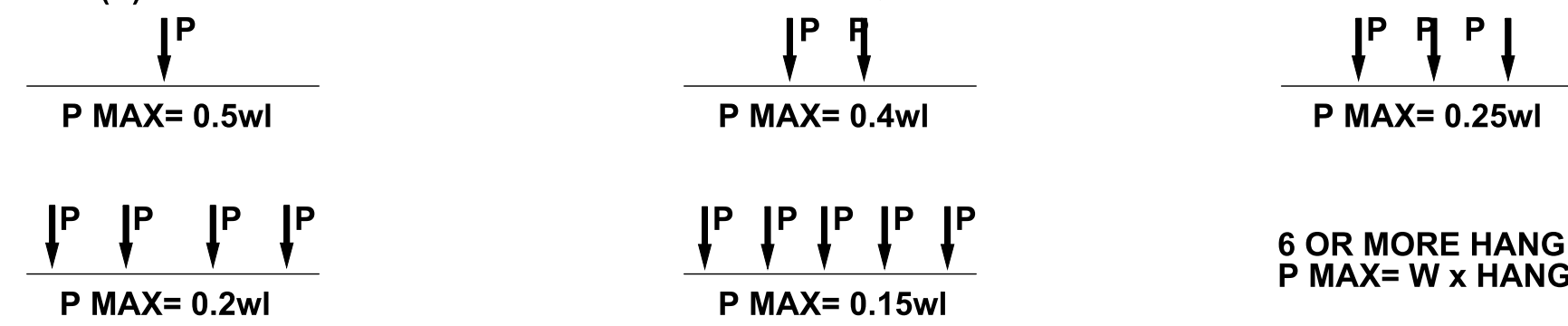


DOUBLE PURLIN HANGERS

VERIFY OVERALL PURLIN DESIGN CAN SUPPORT APPLIED LOADS.

GENERAL NOTES

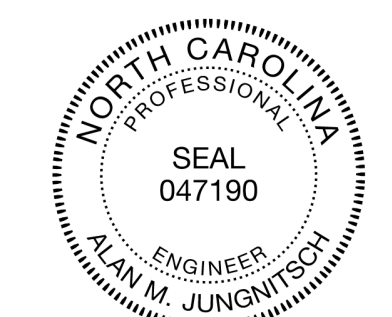
1. CONCENTRATED LOADS GREATER THAN 500lbs ON ANY SINGLE PURLIN MUST BE EXPLICITLY LOCATED AND DESIGNED FOR DURING DESIGN OF BUILDING SYSTEM.
2. SPECIFIED COLLATERAL LOADS MAY BE CONVERTED TO SAFE CONCENTRATED LOADS AS FOLLOWS, WHERE P = MAX CONCENTRATED LOAD (lbs); W = UNIFORM COLLATERAL LOAD (PSF) x PURLIN SPACING (ft) = lbs/ft; L = PURLIN SPAN (ft). HANGERS SHOULD BE SPACED APPROX. EQUAL.



EXAMPLE: A PIPE IS SUSPENDED FROM A PURLIN AT 3 LOCATIONS EQUALLY SPACED
BAY SPACING = 24'-0" PURLIN SPACING = 5'-0"
SPECIFIED COLLATERAL LOAD = 5 PSF
W = 5 PSF x 5' = 25 PLF L = 24'-0"
P MAX = 0.25 x 25 PLF x 24'-0" = 150 LBS AT EACH LOCATION
THE PURLIN CAN SUPPORT 3 LOADS UP TO 150 LBS EACH. PICK A HANGER CONNECTION CAPABLE OF SUPPORTING ACTUAL APPLIED LOADS.

3. FOR LOADS GREATER THAN 250 lbs, PURLINS MUST BE "BLOCKED" AT LOCATION OF LOAD TO PREVENT PURLIN ROTATION.
4. EQUIPMENT LOADS SHOULD BE OBTAINED FROM CERTIFIED EQUIPMENT DRAWINGS AND MANUFACTURER'S DATA.
5. Z-PURLINS WILL DEFLECT UNDER SNOW AND WIND LOADS. ITEMS THAT MAY BE DAMAGED DUE TO DEFLECTIONS, (EX. GAS LINES), VERIFY THAT PIPES OR SUSPENDED EQUIPMENT ARE COMPATIBLE WITH EXPECTED DEFLECTION RANGES ($\pm L/180$).
6. THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIRES SPRINKLER HANGERS TO BE DESIGNED FOR A MINIMUM LOAD OF FIVE TIMES THE WEIGHT OF THE WATER-FILLED PIPE PLUS 250 POUNDS. THE HANGER ITSELF MUST BE ABLE TO SUPPORT THIS LOADING, IT IS NOT NECESSARY TO DESIGN THE SUPPORTING MEMBER FOR THIS LOAD IN COMBINATION WITH THE DESIGN LOADS.
7. SUSPENDED LOADS WILL NEED TO BE BRACED (TO THE PRIMARY FORCE RESISTING SYSTEM) FOR LATERAL STABILITY DUE TO EARTHQUAKES.
8. HANGER DESIGN IS NOT THE RESPONSIBILITY OF BLUESCOPE.
9. TOP FLANGE HANGERS SHOULD BE AVOIDED ON BUILDINGS WITHOUT INSULATION SPACER BLOCKS ON TOP OF THE TOP FLANGE. IF TOP FLANGE HANGERS ARE REQUIRED, PLACE THE HANGERS AT THE ROOF PANEL MAJOR CORRUGATION LOCATION TO AVOID DAMAGING THE ROOF PANEL WITH THE HANGER WHEN THE ROOF PANEL IS LOADED OR WALKED ON.
10. WHEN BEAM C-CLAMPS OR OTHER ROD HANGERS ARE USED ON THE TOP FLANGE, THE ROD SHOULD NOT EXTEND ABOVE THE TOP OF THE CLAMP TO AVOID DAMAGING THE ROOF PANEL WITH THE ROD WHEN THE ROOF PANEL IS LOADED OR WALKED ON.
11. DO NOT HANG ANY TYPE OF CRANE, HOIST, CONVEYOR OR ANY MOVING LOADS FROM THE Z-PURLINS.
12. DO NOT HANG ANY LOAD FROM BBNA SUPPLIED PURLIN BRACES OR BRIDGING.
13. DO NOT WELD ANY PART OF THE Z-PURLIN.
14. HOLES MUST NOT EXCEED 9/16" DIAMETER UNLESS AUTHORIZED BY BBNA ENGINEER. DRILL OR REAM HOLES WHEN REQUIRED- DO NOT FLAME CUT

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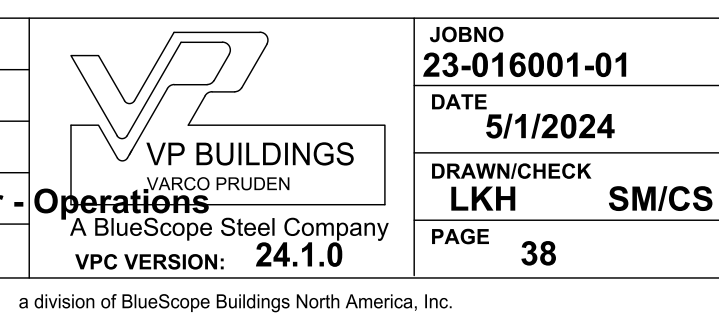
CONCENTRATED LOADS ON ROOF Z-PURLIN HANGER DETAILS			
DRAWN BY	CHECKED BY	GROUP NUMBER: 80 - 054 - 01	
REVERTT	RBENTON	B	B-081465
FIRST RELEASE DATE	REVISION DATE		
02/26/10	02/26/20		

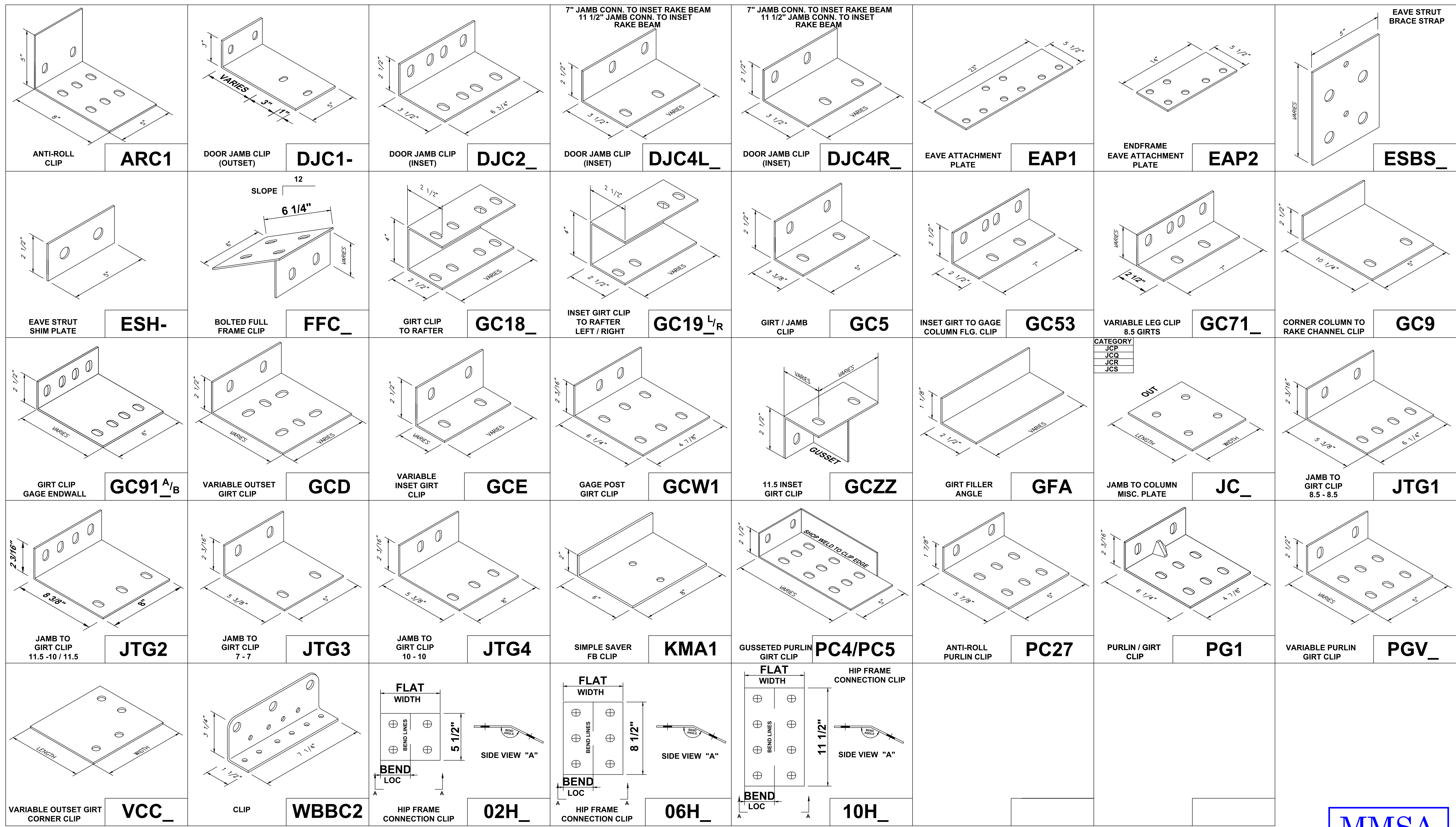
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	REV	DATE	CUSTOMER	Duke Energy
			LOCATION	Dunn, North Carolina
NTS		PROJECT	Duke Energy Dunn Operations Center - Operations	
4/17/2024 SEDSheet 13:12:34		BUILDERS PO#	23068 - Ops	
FILENAME: Duke Energy - Ops		JOBNO 23-016001-01		
		DATE 5/1/2024		
		DRAWN/CHECKED LKH SM/CS		
		PAGE 38		



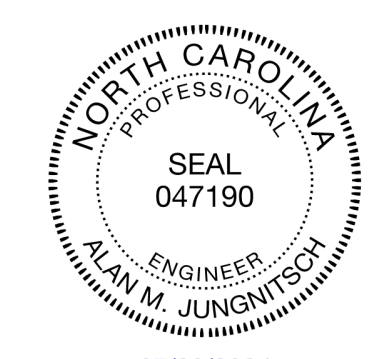


CATEGORY
JCP
JCO
JCR
JCS



BENT CLIPS			
DRAWN BY	CHECKED BY	GROUP NUMBER:	
NF	RJR	B	B-081765 04
FIRST RELEASE DATE	REVISION DATE		
01/28/13	07/21/16		

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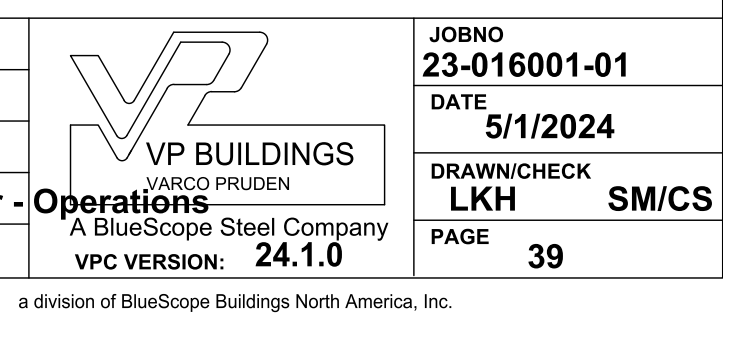
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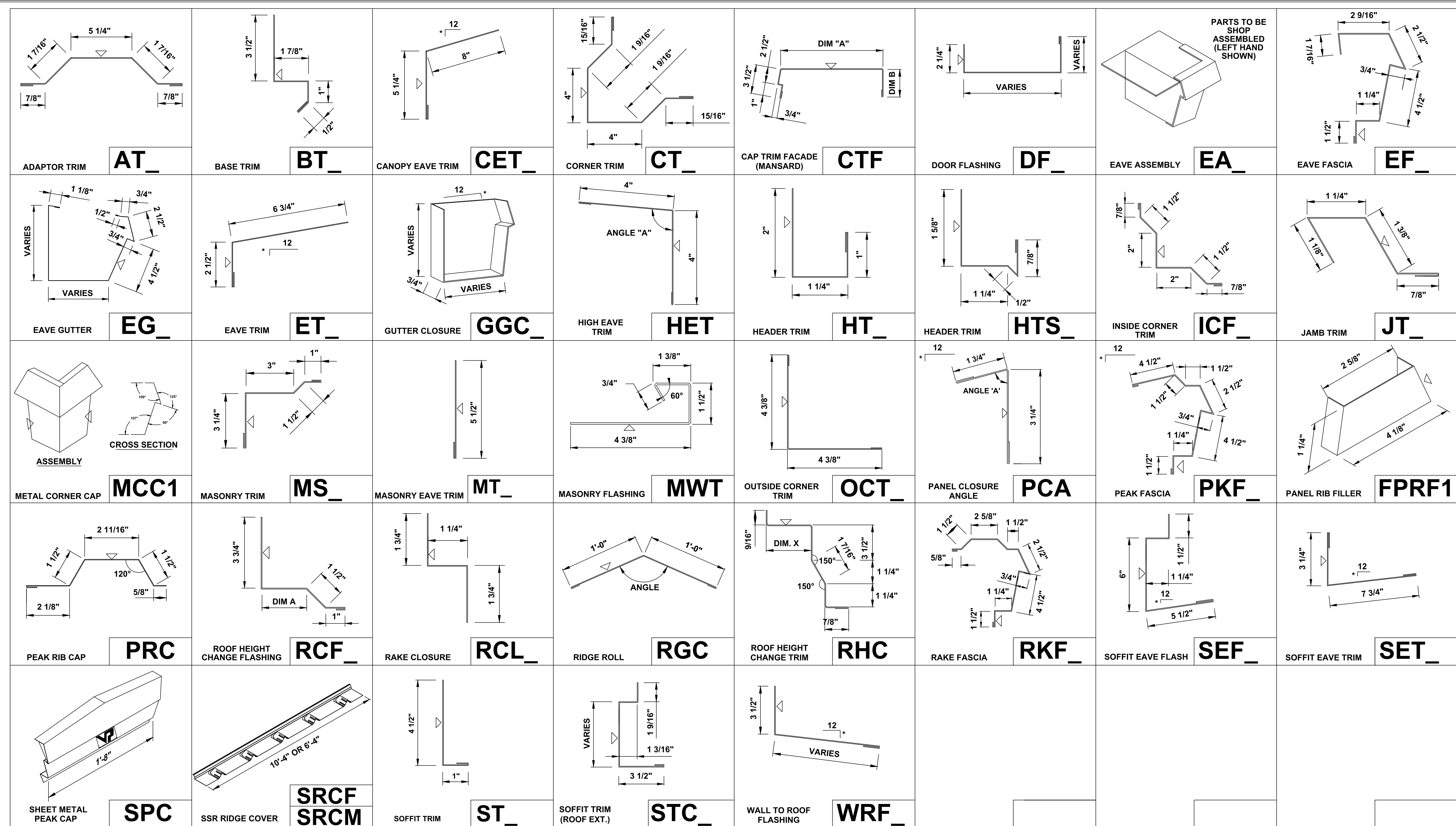
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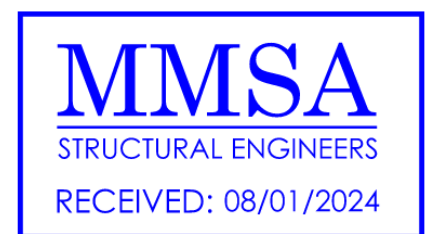
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NTS		DRAWING CHECK		LKH SM/CS
4/17/2024 SEDSheet 13:12:36		FILENAME:		Duke Energy - Ops
		JOBNO		23-016001-01
		DATE		5/1/2024
		DRAWING CHECK		LKH SM/CS
		PAGE		39





TRIM COLOR NOTE
 ▲ DESIGNATES COLOR SIDE

STANDARD TRIMS			
DRAWN BY	CHECKED BY	GROUP NUMBER: - -	
NF	RJR		
FIRST RELEASE DATE	REVISION DATE	B	S-081766 02
03/05/13	12/05/18		



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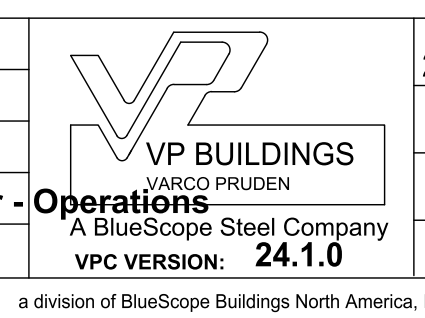
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NTS		PROJECT	Duke Energy Dunn Operations Center	OPERATIONS
4/17/2024 SEDSheet 13:12:37		BUILDERS PO#	23068 - Ops	VP BUILDINGS VAPOO PRUDEN A BlueScope Steel Company VPC VERSION: 24.1.0
		FILENAME:	Duke Energy - Ops	JOBNO 23-016001-01 DATE 5/1/2024 DRAWN/CHECK LKH SM/CS PAGE 40



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ROOF/WALL STRUCTURAL FASTENER

(T-2) #12-14 x 1 1/4", 5/16" HEX HD, SS CAP W/WASHER
 MARK
 NUMBER COLOR
 097584___ SEE COLOR SUFFIX CHART BELOW

ROOF/WALL STRUCTURAL FASTENER

(T-2) #12-14 x 1 1/2", 5/16" HEX HD, SS CAP W/WASHER
 MARK
 NUMBER COLOR
 097585___ SEE COLOR SUFFIX CHART BELOW

WALL STRUCTURAL FASTENER

(T-2) #17/#12-14 x 1 7/8", STAND OFF 5/16" HEX HD, SS CAP W/WASHER
 MARK
 NUMBER COLOR
 097597___ SEE COLOR SUFFIX CHART BELOW

ROOF STITCH FASTENER

(T-1) 1/4-14 x 1 1/8", 5/16" HEX HD, SS CAP W/WASHER
 MARK
 NUMBER COLOR
 097582___ SEE COLOR SUFFIX CHART BELOW

ROOF/WALL STITCH FASTENER

(T-1) 1/4-14 x 7/8", 5/16" HEX HD, SS CAP W/WASHER
 MARK
 NUMBER COLOR
 097581___ SEE COLOR SUFFIX CHART BELOW

COLOR SUFFIX CHART

SUFFIX	COLOR	SUFFIX	COLOR
100	= COOL ARCTIC WHITE	112	= COOL GRANITE GRAY
101	= COOL EGYPTIAN WHITE	113	= COOL SIERRA TAN
102	= COOL COTTON WHITE	115	= COOL COLBALT BLUE
103	= COOL COLONIAL RED	116	= COOL ZINC GRAY
104	= COOL STRAW GOLD	117	= COOL COPPER PENNY
105	= COOL DARK BRONZE	118	= COOL METALLIC SILVER
106	= COOL WEATHERED COPPER	119	= COOL JADE GREEN
107	= COOL BERMUDA GREEN	120	= COOL BRIGHT RED
108	= COOL HEMLOCK GREEN	121	= COOL PARCHMENT
109	= COOL LEAF GREEN	122	= COOL OLD TOWN GRAY
110	= COOL EBONY	UNPNTD	= UN PAINTED
111	= COOL IMPERIAL BLUE	SPR	= SPECIAL REQUEST

MISC. STRUCTURAL FASTENERS

MARK
 NUMBER
 55307 (T-3) 1/4-14 x 1 1/4", 5/16" HEX HD
 55309 (T-3) 1/4-14 x 2", 5/16" HEX HD
 55310 (T-3) 1/4-14 x 3", 3/8" HEX HD
 55311 (T-3) 1/4-14 x 4", 3/8" HEX HD
 56104 (T-5) #12-24 x 1 1/2", 5/16" HEX HD
 59227 (T-5) 1/4-28 x 3", 5/16" HEX HD
 59228 (T-5) 1/4-28 x 4", 5/16" HEX HD
 55308 (T-AB) #17-14 x 1", 5/16" HEX HD, SS CAP W/WASHER (BAG of 50)
 58015 (T-1) 1/4-14 x 1 1/8", 5/16" HEX HD, SS CAP W/ 7/8" WASHER

RIVETS

BULB TITE STRUCTURAL BLIND RIVET
 MARK
 NUMBER DESCRIPTION COLOR
 55160 VP200 RIVET (RV6604-6-8W OLYMPIC BULB TITE) ALUMINUM
 55181 VP205 RIVET (RV6604-6-4W OLYMPIC BULB TITE) COOL ARCTIC WHITE
 55185 VP205 RIVET (RV6604-6-4W OLYMPIC BULB TITE) COOL DARK BRONZE

SEALANT

MARK
 NUMBER DESCRIPTION
 016688 GRAY SKINNING
 025392 GRAY NON-SKINNING
 80507 BRONZE SKINNING
 80531 FLEXIBLE FLASHING SILICONE ADHESIVE (GRAY)

TAPE MASTIC

MARK
 NUMBER DESCRIPTION
 97663 3/16" X 1 1/2" X 40' ROLL
 97662 3/16" X 1" X 28" BOX OF 100
 200 LINEAL FEET OF COVERAGE PER BOX
 80347 1/8" X 1" X 9" (50) AND 3" (150) BOX
 100 LINEAL FEET OF COVERAGE PER BOX
 027893 1/8" X 1" X 25' ROLL
 025390 3/16" X 1/4" X 40' ROLL

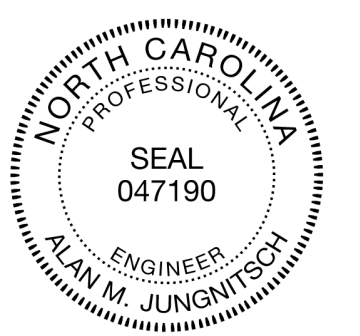
PANEL CLOSURES

MARK
 NUMBER DESCRIPTION
 80130 PANEL RIB 3' INSIDE CLOSURE
 80140 PANEL RIB 3' OUTSIDE CLOSURE
 80360 VEE RIB 3' INSIDE CLOSURE
 80362 VEE RIB 3' OUTSIDE CLOSURE
 80140 RPR 3' INSIDE PANEL CLOSURE
 80130 RPR 3' OUTSIDE PANEL CLOSURE
 80135 SSR FOAM INSIDE CLOSURE
 80136 SSR HARD RUBBER INSIDE CLOSURE

POP RIVETS

POP RIVET 1/8 x 3/8"
 MARK
 NUMBER COLOR
 097580___ SEE COLOR SUFFIX CHART BELOW

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 2024.07.29 09:29:16-05'00'



07/29/2024
 BLUESCOPE BUILDINGS NORTH AMERICA, INC.
 NORTH CAROLINA REGISTERED ENGINEERING FIRM F-0998

VP COMMON WAREHOUSE PARTS			
DRAWN BY	CHECKED BY	GROUP NUMBER:	
BJW	RJR	B	S-081767 08
FIRST RELEASE DATE	REVISION DATE		
01/22/13	06/24/22		

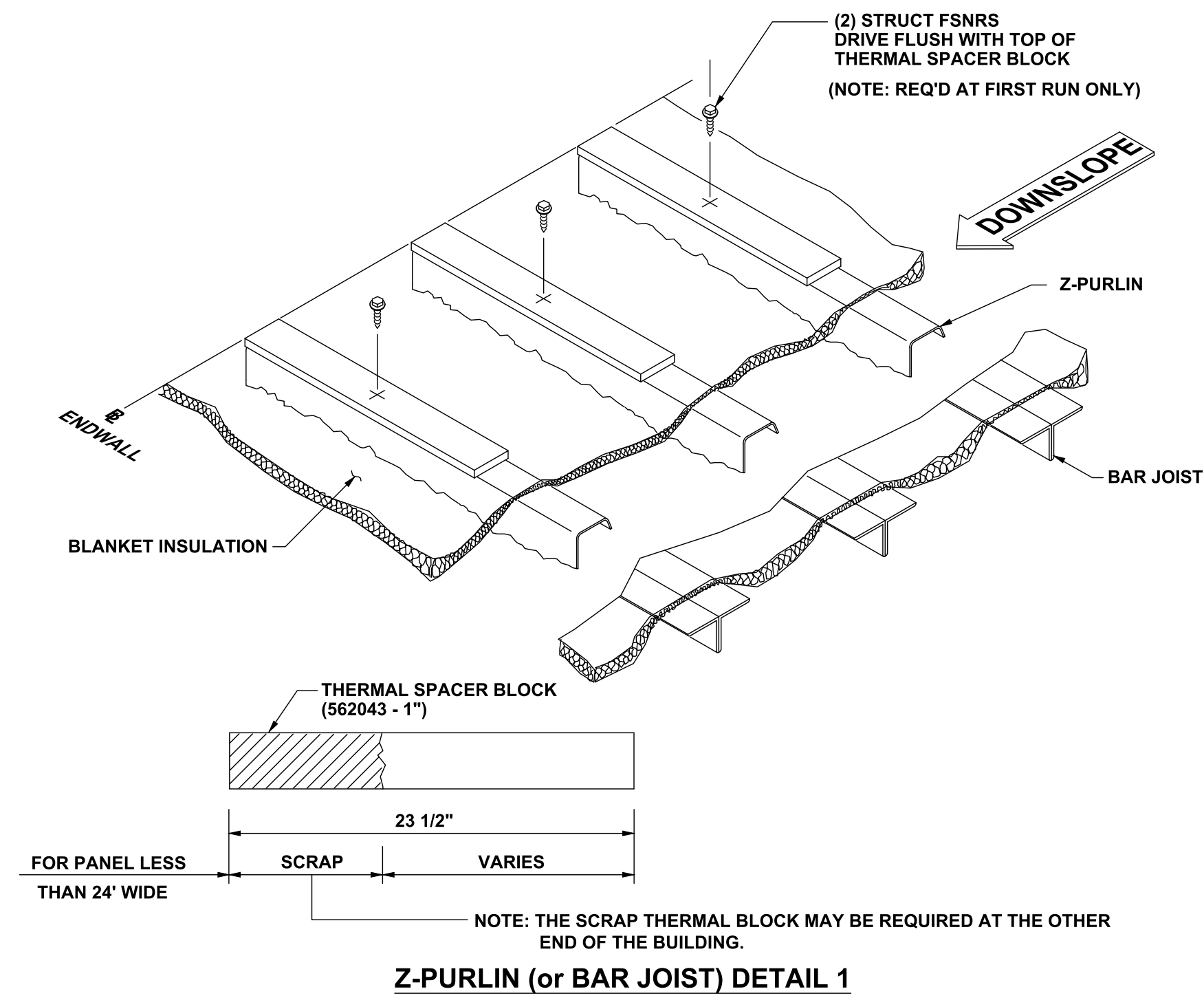
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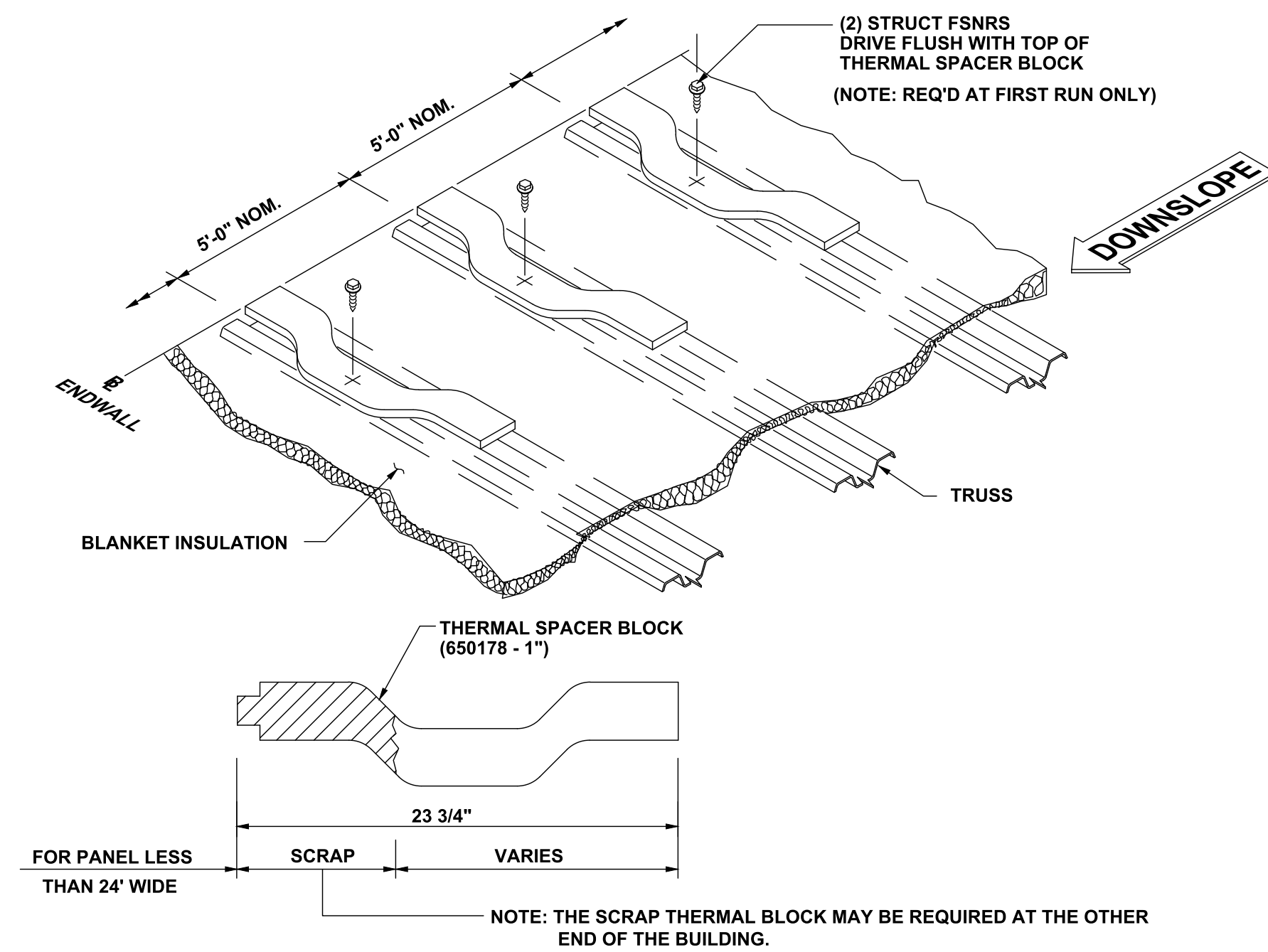
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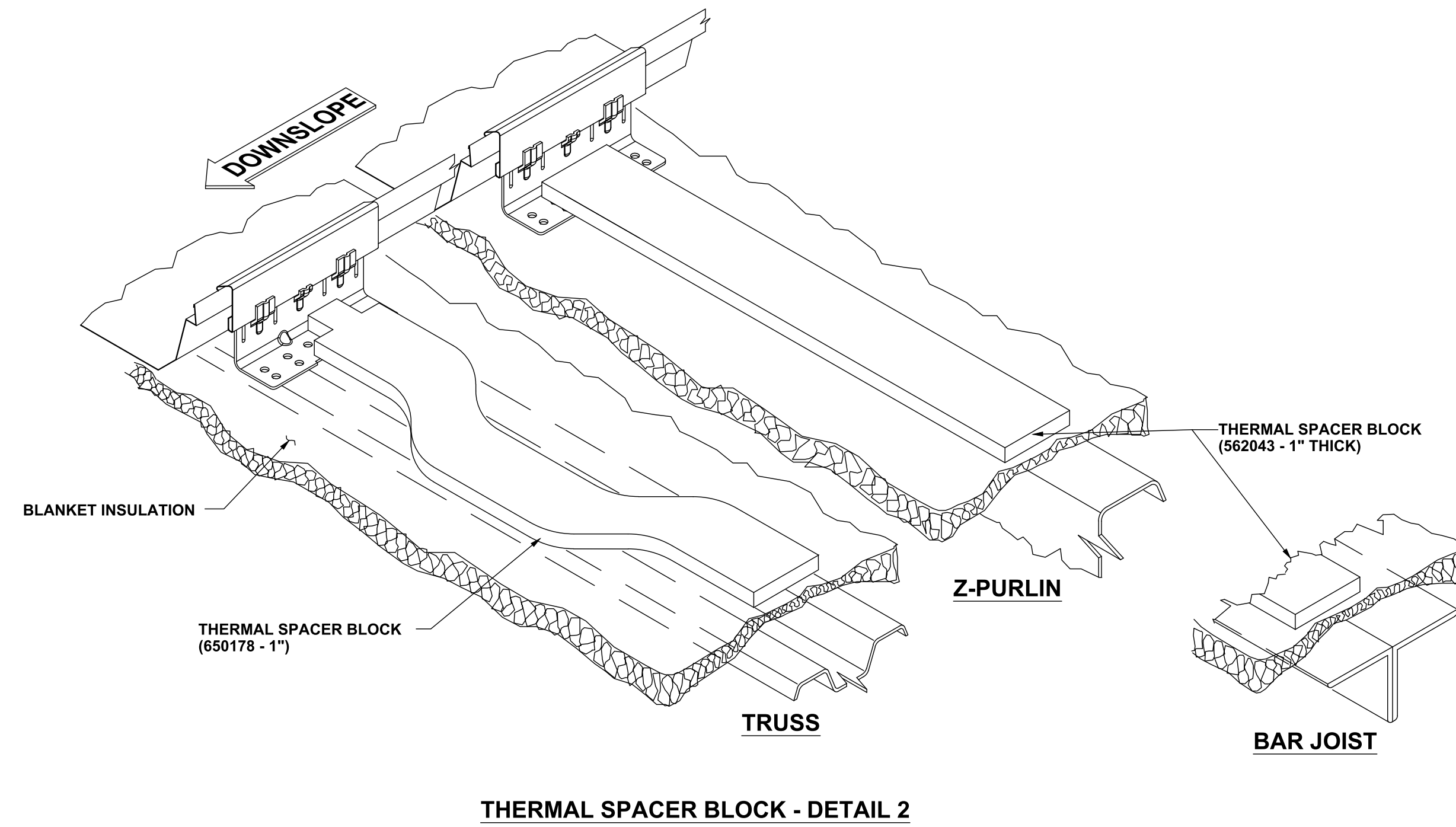
REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS PO#	NTS	VP BUILDINGS	ARC0 PRUDEN	OPERATIONS	VP VERSION:	JOBNO	DATE	DRAWN/CHECK	PAGE
				Lemartec Corporation	Duke Energy	Dunn, North Carolina	Duke Energy Dunn Operations Center	23068 - Ops					24.1.0	23-016001-01	5/1/2024	LKH	41



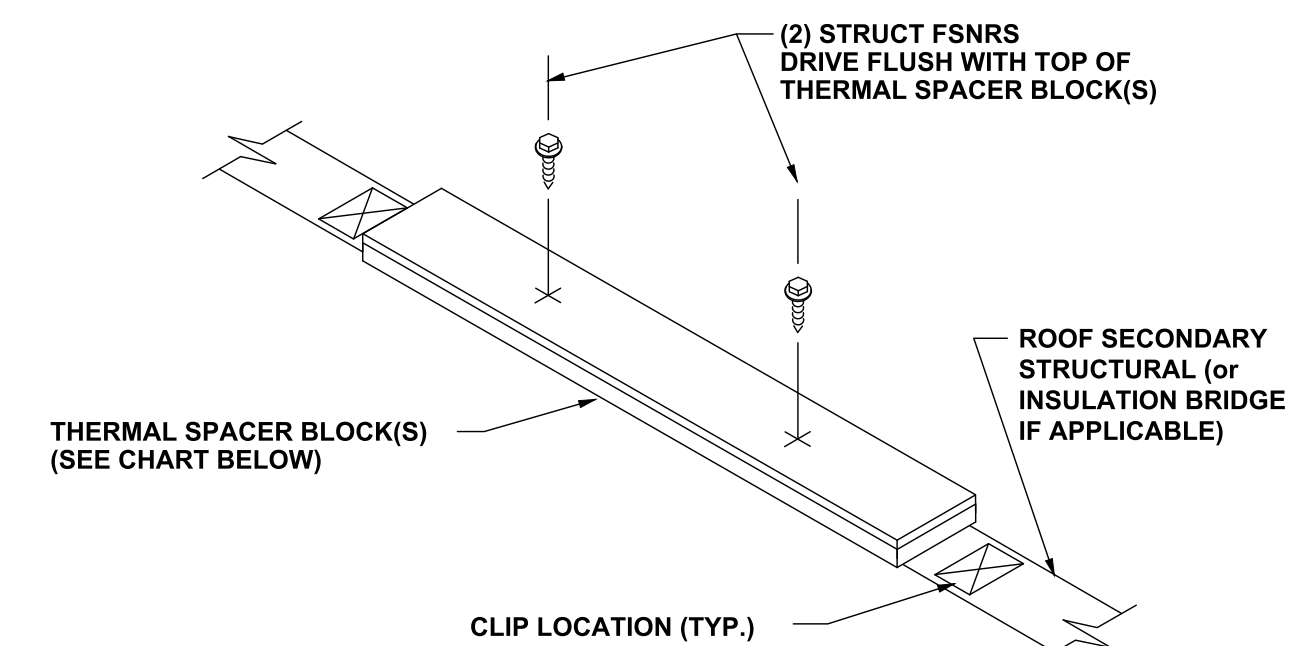
Z-PURLIN (or BAR JOIST) DETAIL 1



TRUSS PURLIN DETAIL 1



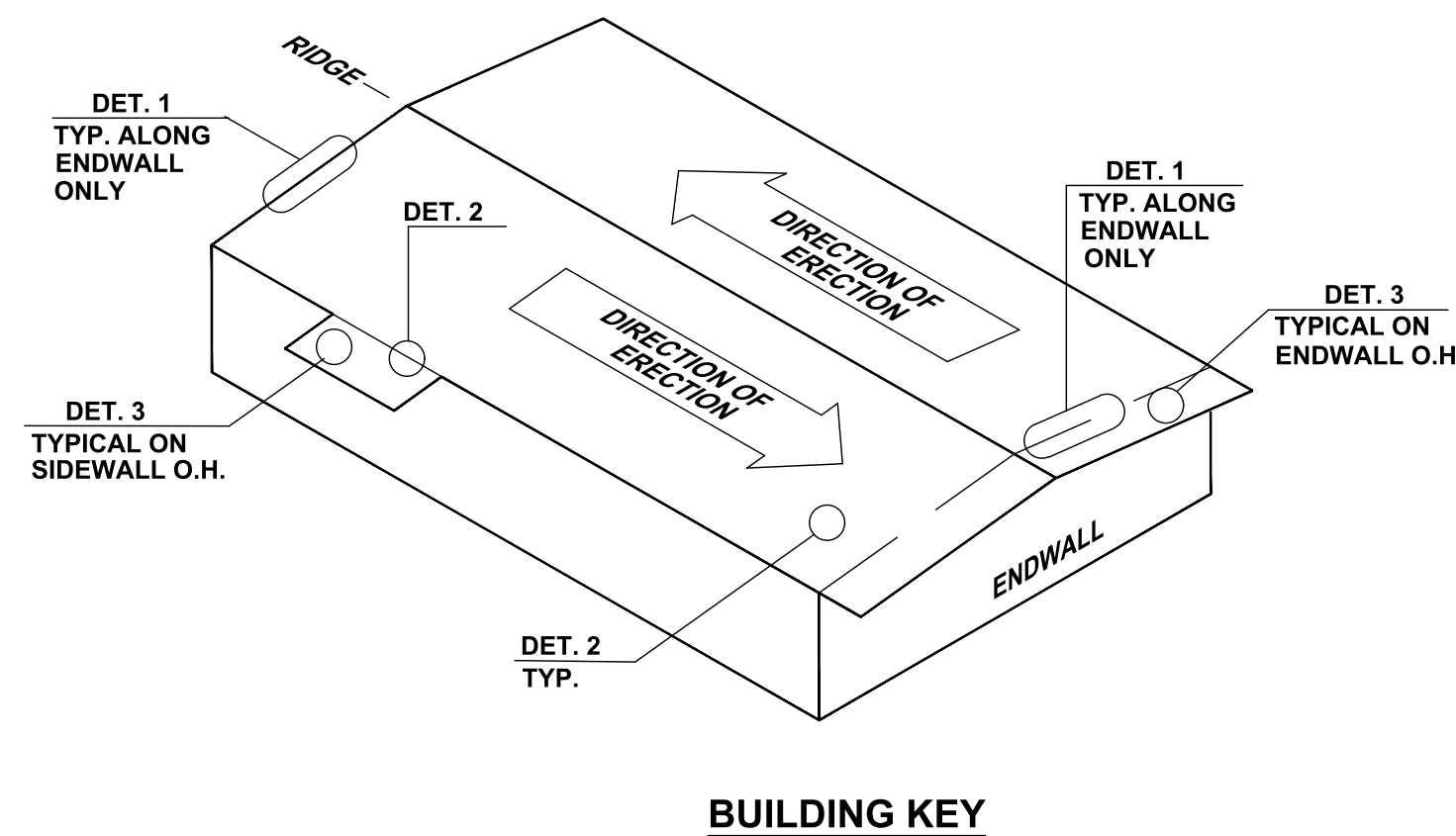
THERMAL SPACER BLOCK - DETAIL 2



NOTE: IT IS RECOMMENDED THAT OPEN AREAS HAVE A MINIMUM OF 2" FACED INSULATION TO REDUCE CONDENSATION IN THESE AREAS.
 - IN OPEN AREAS WITH NO BLANKET INSULATION MORE THAN ONE THERMAL BLOCK MAY BE REQUIRED TO FILL VOID FOR PANEL SUPPORT. SEE CHART BELOW:

THERMAL BLOCKS AT OPEN AREAS	
CLIP HEIGHT - GAP:	THERMAL BLOCKS:
SHORT - 1/2"	650179
MEDIUM - 1"	562043
TALL - 1 1/2"	650179, 562043
X-TALL - 2"	(2) 562043

THERMAL BLOCK AT OPEN AREAS - DETAIL 3

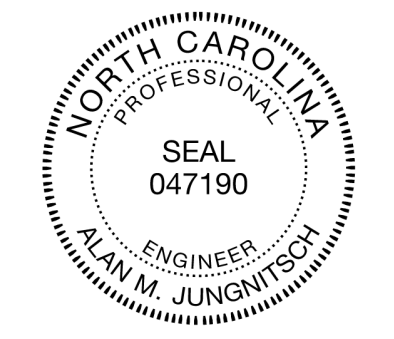


BUILDING KEY

SSR THERMAL BLOCK INSTALLATION			
DRAWN BY	CHECKED BY	GROUP NUMBER:	00 00 00
BPB	RJR	B	S-090028 02
FIRST RELEASE DATE	REVISION DATE		
01/19/16	06/29/18		



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D	VP Buildings		S-090028			
	3200 Players Club Circle Memphis TN 38125					
REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation	
				CUSTOMER	Duke Energy	
				LOCATION	Dunn, North Carolina	
				PROJECT	Duke Energy Dunn Operations Center - Operations	
				BUILDERS PO#	23068 - Ops	
NTS			VP BUILDINGS		JOBNO	23-016001-01
4/17/2024 SEDSheet			A BlueScope Steel Company		DATE	5/1/2024
13:12:40			VPCO PRUDEN		DRAWN/CHECK	LKH SM/CS
			VPC VERSION: 24.1.0		PAGE	42
			FILENAME: Duke Energy - Ops		a division of BlueScope Buildings North America, Inc.	