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REVIEW IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. COMMENTS SHALL NOT BE CONSIDERED AS RELIEVING THE SUPPLIER / SUBCONTRACTOR FROM STRICT COMPLIANCE WITH SUCH DOCUMENTS. THE SUPPLIER / SUBCONTRACTOR REMAINS RESPONSIBLE FOR THE DETAILS AND ACCURACY FOR COMPLYING WITH STANDARDS OF THE INDUSTRY REGARDING FABRICATION, ASSEMBLY, COORDINATION, BIM & LEED STANDARDS, ERECTION AND INSTALLATION PROCEDURES. THE SUPPLIER / SUBCONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT'S APPROVAL OF THIS SUBMITTAL UNLESS SUBCONTRACTOR HAS SPECIFICALLY INFORMED THE CONTRACTOR AND ARCHITECT IN WRITING OF SUCH DEVIATIONS AT THE TIME OF SUBMITTAL.

☐ REVIEWED

☐ REVIEWED AS NOTED

☐ REVISE & RESUBMIT

☐ REJECTED

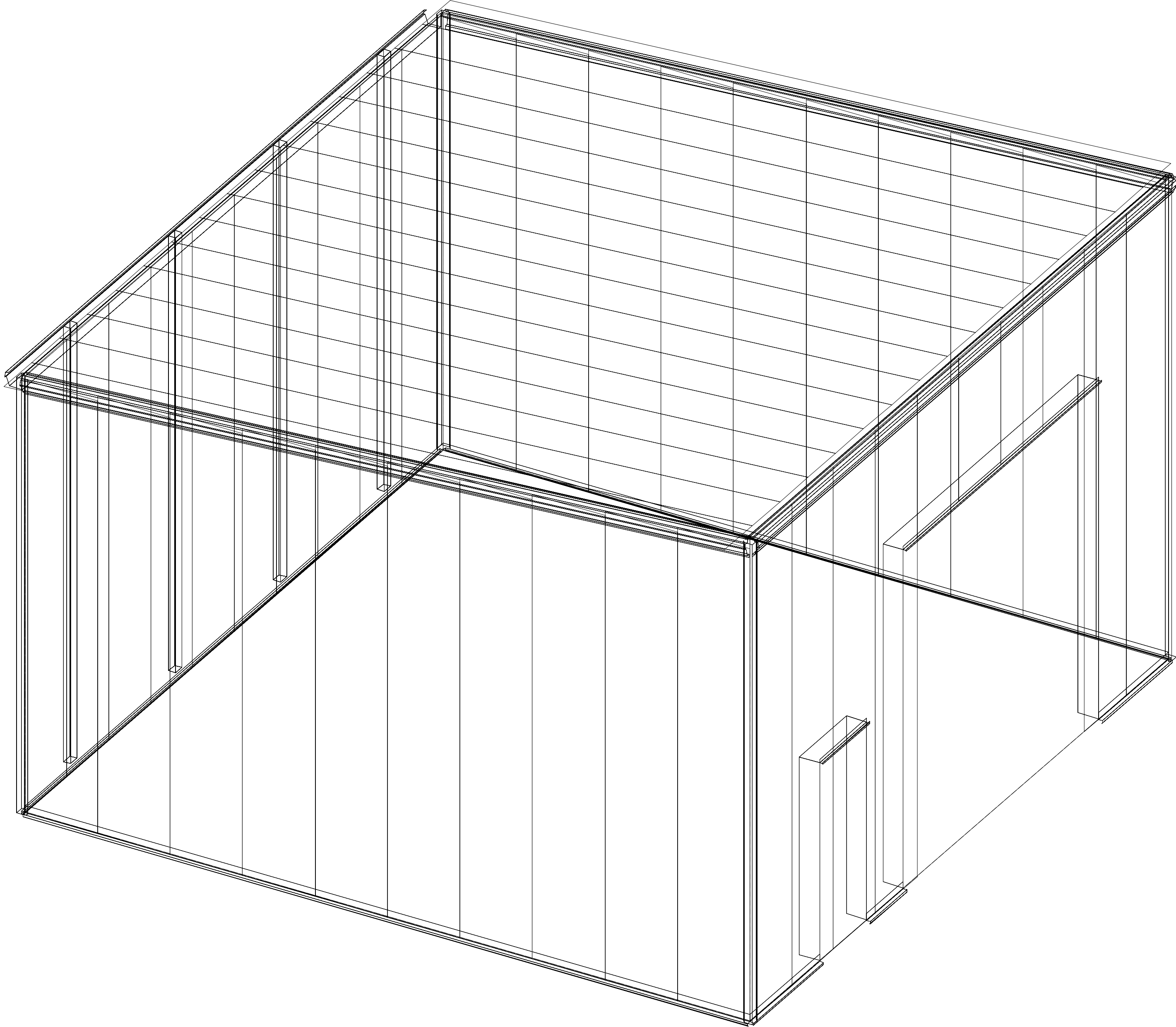
Ry: Don Moore

Date: 02/26/2024

Lemartec Project #: 23068

Client: Sweeten Construction

Client Project #: 23298012



VP Buildings 3200 Players Club Circle Memphis TN 38125


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

COVER SHEET		
BUILDER	Lemartec Corporation	<div><div>VP VERSION: 2023.4a</div><div>a division of BlueScope Buildings North America, Inc.</div></div>
CUSTOMER	Duke Energy	
LOCATION	Dunn, North Carolina	
PROJECT	Duke Energy Dunn Operations Center - Weld Shop	
BUILDERS PO#	23068 - Weld Shop	
FILENAME	Duke Energy - Weld Shop	
JOBNO	23-016000-01	
DATE	01/31/2024	
DRAWN / CHECK	MB WJC	
PAGE	1	

MATERIALS

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

GENERAL NOTES

ASTM DESIGNATION

A529, A572, A1011, A1018	GRADE 55
A653, A1011	GRADE 60
A572, A510	GRADE 50
A36, A529, A572, A588, A992	GRADE 36 OR 50
A529, A572, A588, A992	GRADE 50
A500	GRADE B
A653, A792	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.

NOTICE TO CONTRACTOR:
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

Reviewed for Code Compliance:

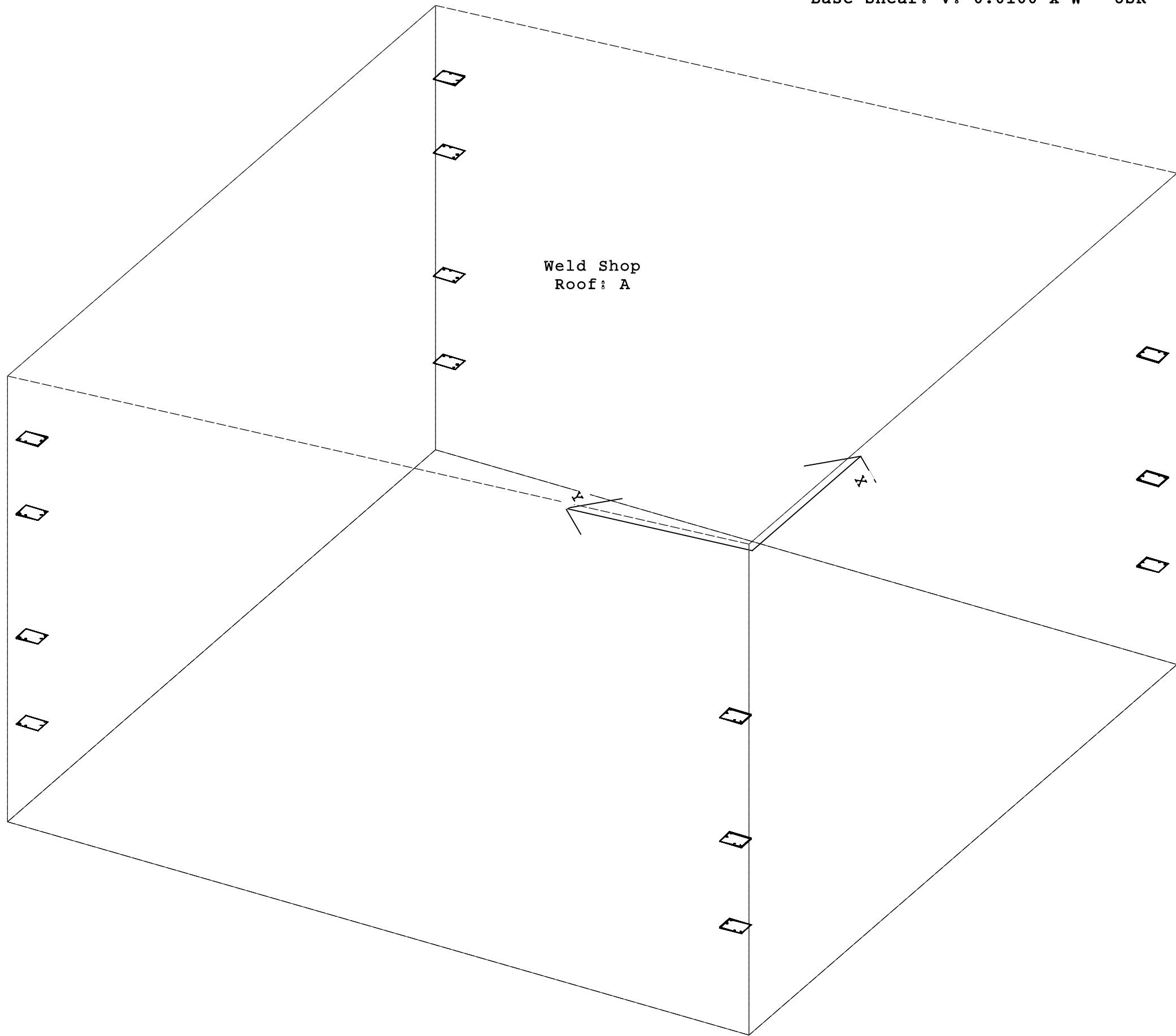
03/07/2025



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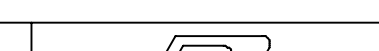
Codes and Loads
WHEN MULTIPLE BUILDINGS ARE INVOLVED, SPECIFIC LOAD FACTORS FOR DIFFERING OCCUPANCIES, BUILDING DIMENSIONS, HEIGHTS, FRAMING SYSTEMS, ROOF SLOPES, ETC., MAY RESULT IN DIFFERENT LOAD APPLICATION FACTORS THAN INDICATED BELOW. SEE CALCULATIONS FOR FURTHER DETAILS. WIND LOADS ARE APPLIED 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
Building Code: 2018 North Carolina Building Code Structural: 10AISC - ASD Rainfall: I: 12.00 inches per hour
Based on Building Code: 2015 International Building Code Cold Form: 12AISI - ASD f'c: 3000.00 psi Concrete
Building Risk/Occupancy Category: II (Standard Occupancy Structure)
Dead and Collateral Loads Material Dead Weight Roof Live Load
Collateral Gravity:5.00 psf Roof Covering + Second. Dead Load: 2.89 psf Roof Live Load: 20.00 psf Reducible
Collateral Uplift: 0.00 psf Frame Weight (assumed for seismic):2.50 psf
Wind Load Snow Load Seismic Load
Wind Speed: Vult: 119.00 (Vasd: 92.18) mph Ground Snow Load: pg: 10.00 psf Lateral Force Resisting Systems using Equivalent Force Procedure
The 'All Heights' Method is Used - User Modified Flat Roof Snow: pf: 6.93 psf Mapped MCE Acceleration: Ss: 17.90 %g
Wind Exposure: C - Kz: 0.882 Design Snow (Sloped): ps: 6.93 psf Mapped MCE Acceleration: S1: 8.40 %g
Parts Wind Exposure Factor: 0.882 Rain Surcharge: 0.00 Site Class: Stiff soil (D)
Wind Enclosure: Enclosed Specified Minimum Roof Snow: 10.00 psf (Code) Seismic Importance: Ie: 1.000
Topographic Factor: Kzt: 1.0000 Exposure Factor: 1 Fully Exposed - Ce: 0.90 Design Acceleration Parameter: Sds: 0.1909
Hurricane Prone Region Snow Importance: Is: 1.000 Design Acceleration Parameter: Sd1: 0.0000
NOT Windborne Debris Region Thermal Factor: Kept just above freezing - Ct: 1.10 Seismic Design Category:: B
Base Elevation: 0/0/0 Ground / Roof Conversion: 0.70 Seismic Snow Load: 0.00 psf
Primary Zone Strip Width: 2a: 9/0/0 Unobstructed, Slippery % Snow Used in Seismic: 0.00
Parts / Portions Zone Strip Width: a: 3/0/0 Diaphragm Condition: Flexible
Velocity Pressure: qz: 27.18 psf Fundamental Period Height Used: 18/11/4
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: 2.50
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: 2.50
Deflection Amplification Factor: Cd: 3.00
Base Shear: V: 0.0100 x W - USR



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				REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation			 VP BUILDINGS VARGO PRUDEN A Bluescope Steel Company VPC VERSION: 2023.4a	JOBNO	23-016000-01
								CUSTOMER	Duke Energy				DATE	01/31/2024
								LOCATION	Dunn, North Carolina				DRAWING/CHECK	MB WJC
								PROJECT	Duke Energy Dunn Operations Center - Weld Shop				PAGE	2
				NTS				BUILDERS PO#	23068 - Weld Shop					

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 /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#24GA28318800; 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 Structuroc, Inc.

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

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

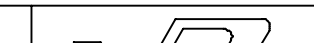
SLR II Roof Systems are approved in various type applications and listed in FM Approval Guide.

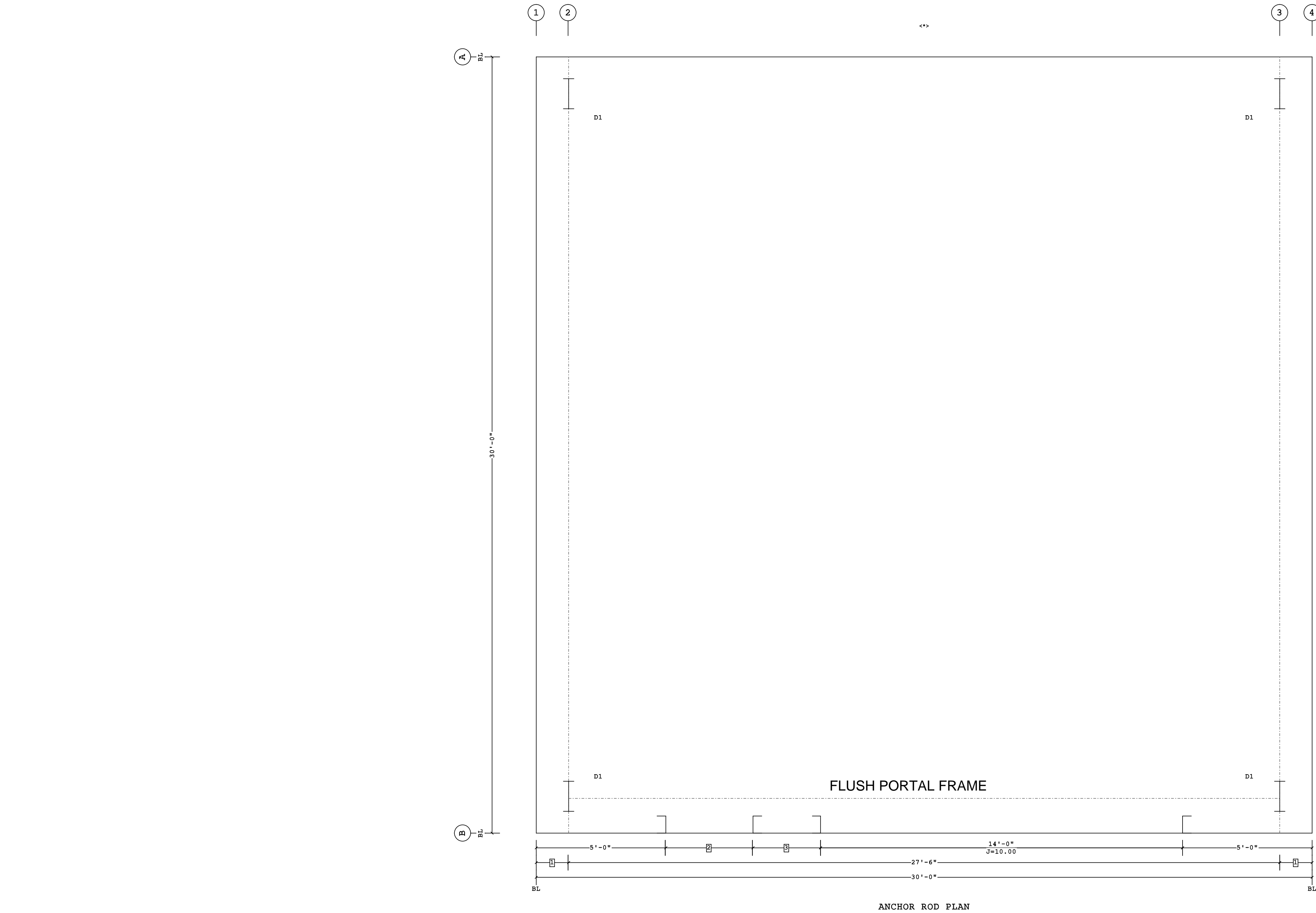
24 Ga SLR II (0.0227" Nominal), is available in Class 1-75 and 1-120.

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				DRAWN/CHECK	MB WJC					
				PAGE	3					



- 3 2'-7 1/2"
2 3'-4 1/2" J=10.00
1 1'-3"

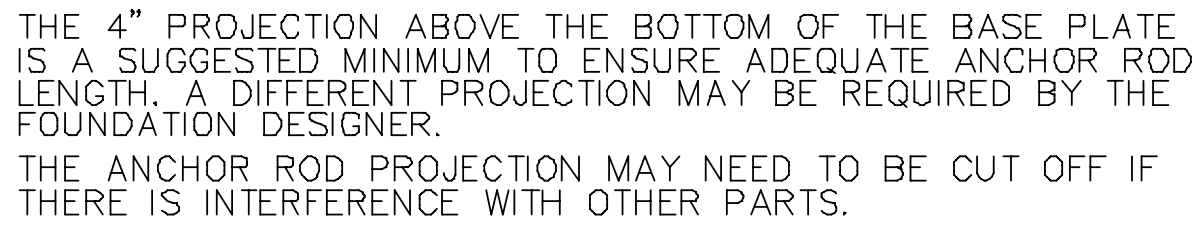
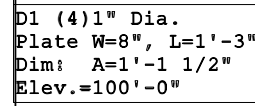
Dimension Key

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<p><-> 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.</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>Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)</p>		<p>VP Buildings 3200 Players Club Circle Memphis TN 38125</p>		<p>ANCHOR ROD PLAN</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</p>		<p>Dunn, North Carolina</p>		<p>PROJECT</p>		<p>Duke Energy Dunn Operations Center - Weld Shop</p>		<p>BUILDERS PO# 23068 - Weld Shop</p>		<p>VPC VERSION: 2023.4a</p>	
<p>NTS</p>		<p>1/31/2024</p>		<p>16:40:59</p>		<p>FILENAME: Duke Energy - Weld Shop</p>		<p>JOBNO 23-016000-01</p>		<p>DATE 01/31/2024</p>	
<p>DRAWN/CHECK</p>		<p>MB</p>		<p>WJC</p>		<p>PAGE 4</p>		<p>VP BUILDINGS VARCO PRUDEN A BlueScope Steel Company</p>		<p>a division of BlueScope Buildings North America, Inc.</p>	



1 1/2" (13mm) DIAMETER CONCRETE ANCHORS (BY OTHERS)

JAMB

EQ. 3" EQ. 76mm

J = SEE PLAN

1 1/4" 32mm

OPENING WIDTH

1 1/4" 32mm

NOTE: 1" (25mm) PROJECTION ABOVE BOTTOM OF JAMB CLIP

SEE PLAN FOR JAMB SIZES : J = SIZE

JAMB 'EQ.' VALUES:

7 EQ = 2" 51mm, 8.5 EQ = 2 3/4" 70mm

10 EQ = 3 1/2" 89mm, 11.5 EQ = 4 1/4" 108mm

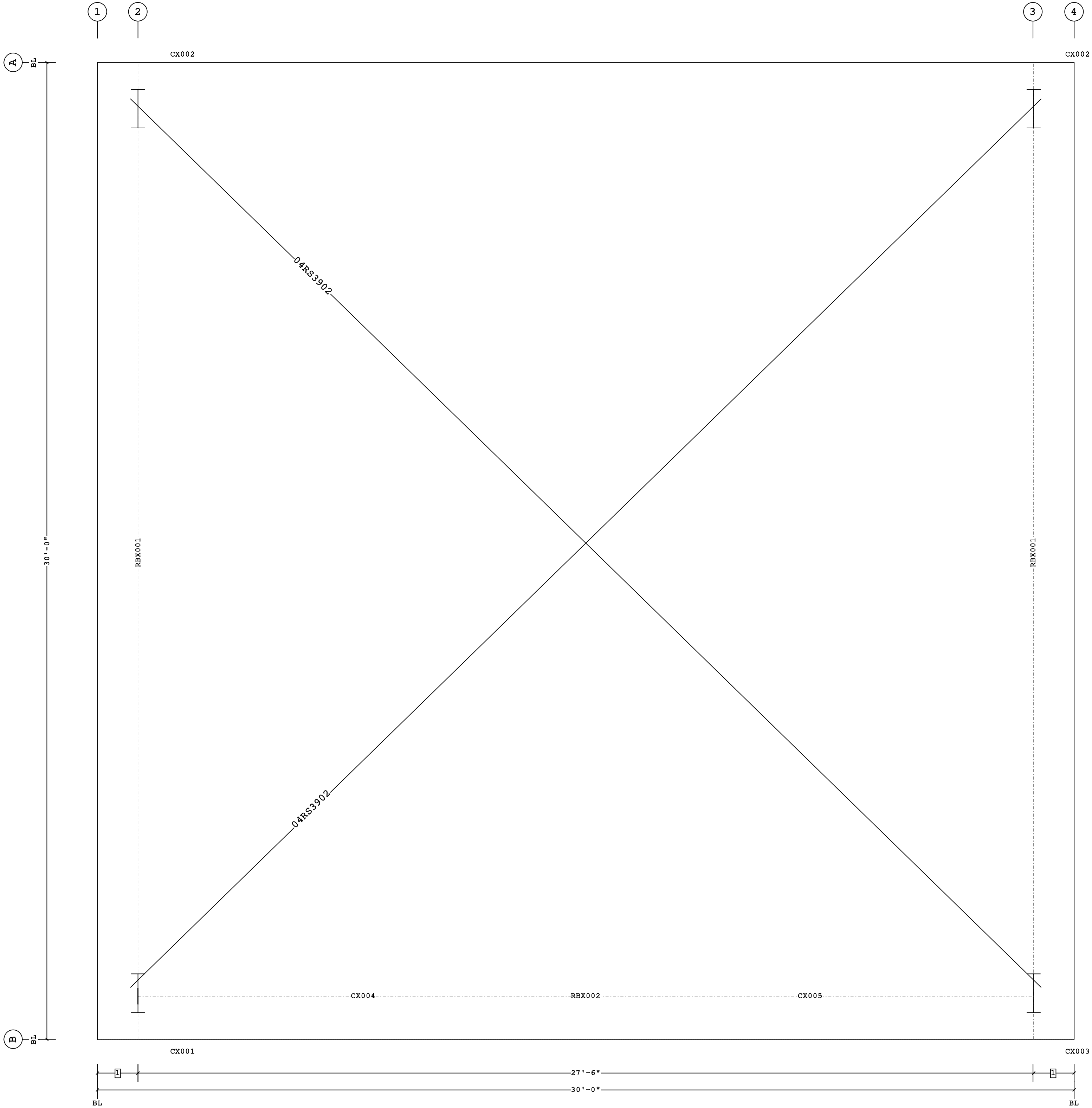
TYPICAL COLUMN BASE PLATE DETAIL

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<p>REV</p> <p>DATE</p> <p>BY</p> <p>DESCRIPTION</p>				<p>BUILDER</p> <p>Lemartec Corporation</p>		<p>JOBN0</p> <p>23-016000-01</p>		<p>DATE</p> <p>01/31/2024</p>		<p>DRAWN/CHECK</p> <p>MB WJC</p>	
<p>LOCATION</p> <p>Dunn, North Carolina</p>				<p>CUSTOMER</p> <p>Duke Energy</p>		<p>VP BUILDINGS</p> <p>VARCO PRUDEN</p>		<p>PAGE</p> <p>5</p>		<p>VP VERSION: 2023.4a</p>	
<p>PROJECT</p> <p>Duke Energy Dunn Operations Center - Weld Shop</p>				<p>BUILDERS FOR</p> <p>23068 - Weld Shop</p>		<p>A BlueScope Steel Company</p>		<p>FILENAME:</p> <p>Duke Energy - Weld Shop</p>		<p>a division of BlueScope Buildings North America, Inc.</p>	
<p>NTS</p>				<p>1/31/2024</p>		<p>16:41:24</p>		<p>1/31/2024</p>		<p>16:41:24</p>	

Bracing Part Schedule			
Part	Qty	Length	Detail
04RS3902	2	39'-2"	BR01G2






PRIMARY AND ROOF BRACING PLAN

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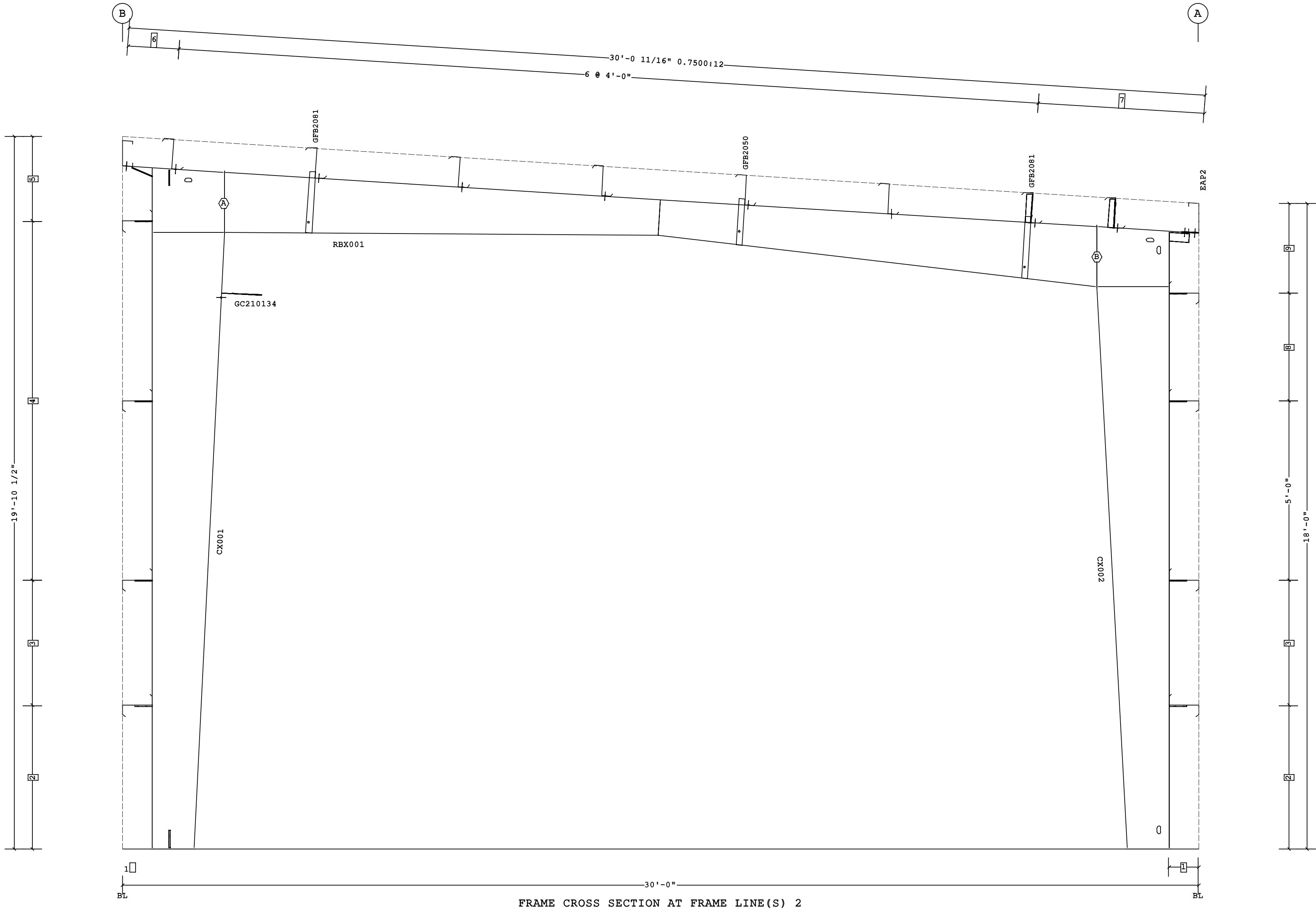


PERMIT SET- For Building Dept. Approval

<div>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.</div> <div>2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.</div>		<div>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.</div>		<div>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.</div> <div>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.</div>		<div>DVP Buildings</div> <div>3200 Players Club Circle Memphis TN 38125</div> <table><tr><th>REV</th><th>DATE</th><th>BY</th><th>DESCRIPTION</th></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><tr><td colspan="4">NTS</td></tr></table> <div>1/31/202416:47:56</div>		REV	DATE	BY	DESCRIPTION													NTS				<div>PRIMARY AND ROOF BRACING PLAN</div> <table><tr><td>BUILDER</td><td>Lemartec Corporation</td><td rowspan="4"><div><div>VP BUILDINGS</div><div>VARCO PRUDEN</div><div>A BlueScope Steel Company</div></div></td><td>JOBNO</td><td>23-016000-01</td></tr><tr><td>CUSTOMER</td><td>Duke Energy</td><td>DATE</td><td>01/31/2024</td></tr><tr><td>LOCATION</td><td>Dunn, North Carolina</td><td>DRAWN/CHECK</td><td>MBWJC</td></tr><tr><td>PROJECT</td><td>Duke Energy Dunn Operations Center - Weld Shop</td><td>PAGE</td><td>6</td></tr><tr><td>BUILDERS PO#</td><td>23068 - Weld Shop</td><td>VPC VERSION:</td><td>2023.4a</td><td></td></tr></table> <div>FILENAME: Duke Energy - Weld Shop</div> <div>a division of BlueScope Buildings North America, Inc.</div>				BUILDER	Lemartec Corporation	<div><div>VP BUILDINGS</div><div>VARCO PRUDEN</div><div>A BlueScope Steel Company</div></div>	JOBNO	23-016000-01	CUSTOMER	Duke Energy	DATE	01/31/2024	LOCATION	Dunn, North Carolina	DRAWN/CHECK	MBWJC	PROJECT	Duke Energy Dunn Operations Center - Weld Shop	PAGE	6	BUILDERS PO#	23068 - Weld Shop	VPC VERSION:	2023.4a	
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Frame Member Schedule								Bolt Connection & Plate Schedule										Frame Clearances	
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo	Horiz. Clearance between members 1(CX001) and 4(CX002):	24'-4"
CX001	1	5.0000	.3750	.1345	1'-2"	2'-0"	18'-11 13/16"	461#	A	6	A325	3/4"	2 1/2"	3/8"	1	2	0097284	Vert. Clearance at member 1(CX001):	17'-1 13/16"
RBX001	2	5.0000	.1875	.1345	1'-8"	1'-0"	24'-5 3/4"	359#										Vert. Clearance at member 4(CX002):	15'-7 9/16"
	3	5.0000	.1875	.1345	1'-0"	1'-8"			B	4	A325	3/4"	2 1/2"	3/8"	1	1	0097284	Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)	
CX002	4	5.0000	.3125	.1345	1'-2"	2'-0"	17'-4 1/16"	382#											



- 9

2'-6"
- 8

3'-0"
- 7

2 @ 2'-3 13/16"
- 6

1'-5 1/8"
- 5

2'-4 1/2"
- 4

2 @ 5'-0"
- 3

3'-6"
- 2

4'-0"
- 1

10"

☐

Dimension Key

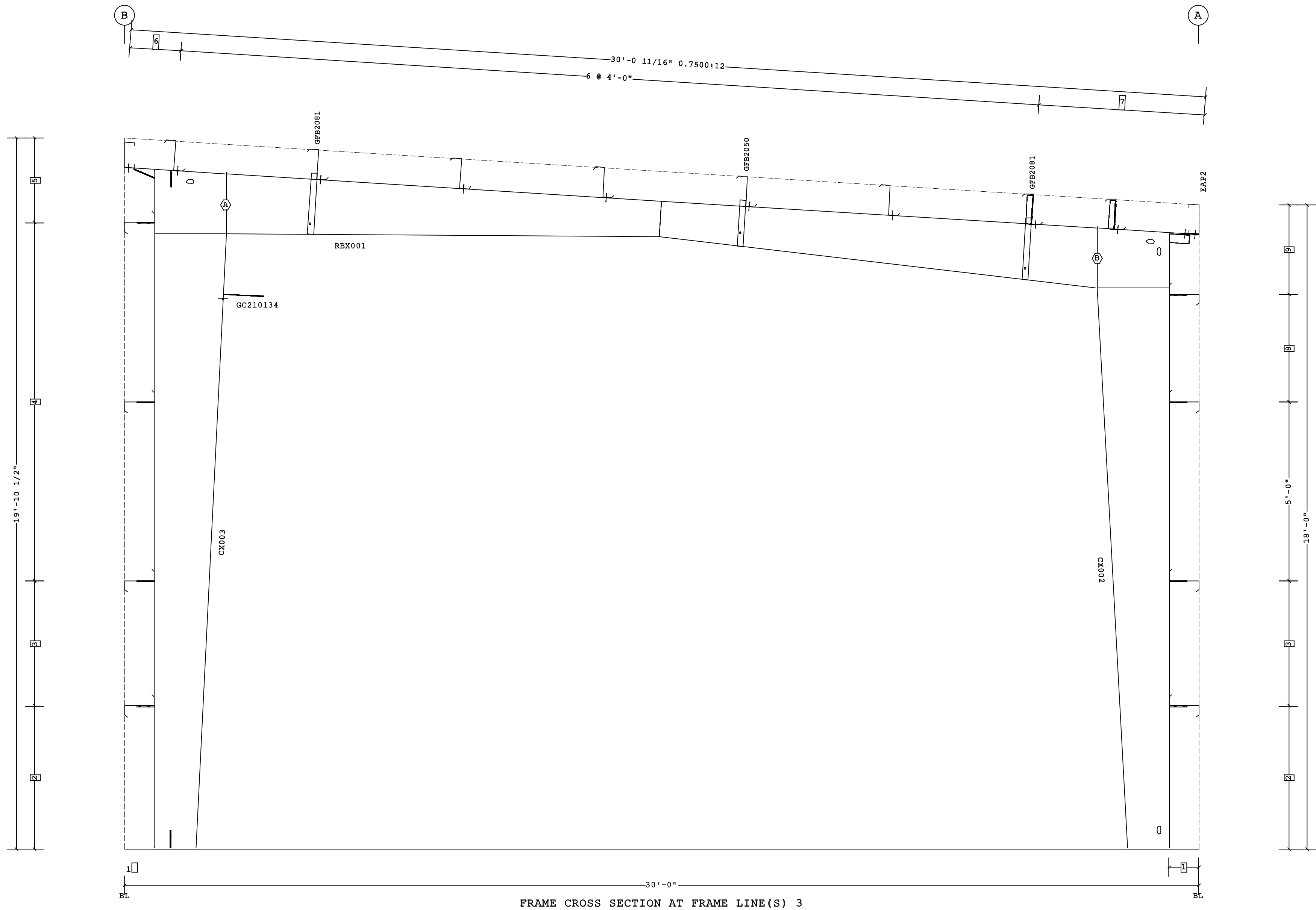
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Dimension Key

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Frame Member Schedule								Bolt Connection & Plate Schedule										Frame Clearances			
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo	Horiz. Clearance between members 1(CX003) and 4(CX002):	Vert. Clearance at member 1(CX003):	Vert. Clearance at member 4(CX002):	Finished Floor Elevation =
CX003	1	5.0000	.3750	.1345	1'-2"	2'-0"	18'-11 13/16"	461#	A	6	A325	3/4"	2 1/2"	3/8"	1	2	0097284	24'-4"	17'-1 13/16"	15'-7 9/16"	(Unless Noted Otherwise)
RBX001	2	5.0000	.1875	.1345	1'-8"	1'-0"	24'-5 3/4"	359#	B	4	A325	3/4"	2 1/2"	3/8"	1	1	0097284				
CX002	4	5.0000	.3125	.1345	1'-2"	2'-0"	17'-4 1/16"	382#													



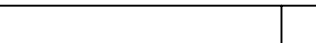
- 9 2'-6"
- 8 3'-0"
- 7 2 @ 2'-3 13/16"
- 6 1'-5 1/8"
- 5 2'-4 1/2"
- 4 2 @ 5'-0"
- 3 3'-6"
- 2 4'-0"
- 1 10"

Dimension Key

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				REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation				 VP BUILDINGS VARCO PRUDEN BlueScope Steel Company VPC VERSION: 2023.4a	JOBNO	23-016000-01				
								CUSTOMER	Duke Energy					DATE	01/31/2024				
								LOCATION	Dunn, North Carolina					DRAWN/CHECK	MB WJC				
								PROJECT	Duke Energy Dunn Operations Center - Weld Shop					PAGE	8				
				NTS				BUILDERS PO# 23068 - Weld Shop				FILENAME: Duke Energy - Weld Shop				a division of BlueScope Buildings North America, Inc.			
				1/31/2024				16:47:59											

Frame Member Schedule								Bolt Connection & Plate Schedule										Frame Clearances	
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Id	Qty	Grade	Bolt	Bolt	Plate	Rows Out	Rows In	PartNo	Horiz. Clearance between members 1(CX004) and 4(CX005): 25'-9"	Vert. Clearance at member 1(CX004): 16'-11"
												Dia.	Length	Thick.					
CX004	1	6.0000	.2500	.1345	10"	10"	18'-4 5/8"	278#	A	4	A325	3/4"	2 1/2"	3/8"	1	1	0097284	Vert. Clearance at member 4(CX005): 16'-11"	Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)
RBX002	2-3	5.0000	.1875	.1345	1'-6"	1'-6"	25'-8 3/4"	395#											
CX005	4	6.0000	.2500	.1345	10"	10"	18'-4 5/8"	278#											

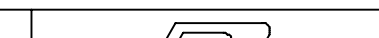


PORTAL FRAME ELEVATION ALONG B

- 2 1' - 4"
- 1 1/2"

Dimension Key

Shape Name = Weld Shop 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. 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			PORTAL FRAME ELEVATION ALONG B							
				3200 Players Club Circle Memphis TN 38125			BUILDER			Lemartec Corporation		 VP BUILDINGS VARCO PRUDEN A BlueScope Steel Company VPC VERSION: 2023.4a	JOBNO 23-016000-01 DATE 01/31/2024 DRAWN/CHECK MB WJC PAGE 9	
				REV	DATE	BY	DESCRIPTION	CUSTOMER			Duke Energy			
								LOCATION			Dunn, North Carolina			
								PROJECT			Duke Energy Dunn Operations Center - Weld Shop			
								BUILDERS PO#			23068 - Weld Shop			
				NTS										

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PERMIT SET- For Building Dept. Approval



DESCRIPTION/PART NO				
ROD DIAM	NUT	HARD STEEL ROUND WASHER A	HARD STEEL WASHER B	HILLSIDE WASHER
3/8"	95321	3/8" FLAT WASHER (96408)	1/2" BEVEL SQUARE WASHER (46040)	
1/2"	95230	1/2" FLAT WASHER (95872)	3/4" FLAT ROUND WASHER (95946)	543334
5/8"	95233	5/8" FLAT WASHER (95845)		
3/4"	95235	3/4" FLAT WASHER (95946)	1" FLAT ROUND WASHER (95948)	543335
7/8"	95237	7/8" FLAT WASHER (95947)		
1"	95238	1" FLAT WASHER (95948)	1 1/8" FLAT ROUND WASHER (95949)	543336
1 1/8"	95239	1 1/8" FLAT WASHER (95949)		

REV. DATE:08/02/17 | REV. NO.04

BR01G2

ROD BRACE
WEB SLOT ASSEMBLY

FLANGE BRACE REQUIREMENTS:

RULE#1- ALL FLANGE BRACES ON CROSS SECTIONS MUST BE INSTALLED.

RULE#2- SINGLE FLANGE BRACES ARE REQUIRED WHEN PART MARK ON CROSS SECTION IS NOT ACCOMPANIED BY (2).

RULE#3- FLANGE BRACES ARE REQUIRED BOTH SIDES OF THE FRAME WEB WHEN PART MARK IS ACCOMPANIED BY (2).

RULE#4- WHENEVER POSSIBLE, PLACE SINGLE BRACES TOWARD THE CENTER OF THE BUILDING.

RULE#5- WHENEVER POSSIBLE, PLACE ALL SINGLE BRACES ON THE SAME SIDE OF THE FRAME WEB.

** 10" & 11 1/2" PURLINS REQUIRE 3 BOLTS AT EACH END OF PURLIN LAP.

REV. DATE:05/08/18 | REV. NO.02

BR06AE

TYPICAL FLANGE BRACE CONNECTIONS
CONT. PURLIN LAP SHOWN, CONT. GIRT & SIMPLE PURLIN

FLANGE BRACE REQUIREMENTS:

PORTAL COLUMN DEPTH	FLANGE BRACE
≤ 24"	HFB3060
> 24" & ≤ 36"	HFB4106
> 36"	HFB6032

NOTES:

① FIELD DRILL 9/16" HOLES IN PRIMARY AND PORTAL FRAME WEBS FOR FLANGE BRACE CONNECTIONS.

② DRILL 9/16" HOLE IN PORTAL FRAME COLUMN WEB APPROX. 2" FROM BOLTING PLATE @ BEAM C.

REV. DATE:03/17/16 | REV. NO.03

BR12K1

FLUSH PORTAL FRAME CONNECTION
FLANGE BRACE CONNECTION AND LOCATION

F = FEET
I = INCHES
E = EIGHTHS

G = GAGE
O = OPERATION
C = FIN/COLOR

PANEL/COVERING
W 1 3 1 1 7 2 6 1 K T D
* F F I I E G G O C C C
LENGTH CODE

INSULATION
I B 1 3 0 1 0 3 6 0 3 0 W V
* * F F F I I I I I E C C
LENGTH WIDTH THK CODE

SECONDARY (STANDARD)
O B Z 1 9 1 1 4 1 7 - - - -
* * * F F I I E G G * * * * *
DEPTH LENGTH GAGE ADJUST.CODES
SHAPE

SECONDARY (SPECIAL)
O 0 1 0 8 Z 1 9 1 1 4 1 7 - - -
* * * * * F F I I E G G * * * *
COUNTER DEPTH & LENGTH GAGE ADJUST.CODES
SHAPE

ROD BRACING
O 3 R S 2 5 1 0
I E * * F F I I
DIA LENGTH

RS = THREADS BOTH ENDS
RT = THREADS ONE END - CLEVIS ONE END
RU = CLEVIS BOTH ENDS
RP = THREAD BOTH ENDS - NO HILLSIDES

CX*** = COLUMN (PLATE)
CGX*** = COLUMN (GAGE)
WCX*** = COLUMN (HOTROLL)

RBX*** = RAFTER (PLATE)
BGX*** = RAFTER (GAGE)
WRX*** = RAFTER (HOTROLL)
TRX*** = TRUSS RAFTER

ICX*** = INTERIOR COLUMN
PCX*** = PIPE COLUMN
TCX*** = TUBE COLUMN

EPX*** = ENDPOST (PLATE)
EGX*** = ENDPOST (GAGE)

CBX*** = CANOPY (PLATE)
CBX*** = PIGGYBACK CANOPY

DCC*** = 8 1/2" GAGE POST
DCE*** = 10" GAGE POST

REV. DATE:06/29/12 | REV. NO.01

EN50B1

MARK NUMBER KEY
COMMON GENERATED MARK NUMBERS

BASIC ERECTION GUIDE REQUIRED FOR THIS PROJECT:

REFER TO:

VARCO PRUDEN BUILDINGS

BASIC ERECTION GUIDE

The Field Guide for correctly storing and erecting
Varco Pruden Metal Building Systems

BACK COVER: 4001 BASIC ERECTION GUIDE

REV. DATE:01/30/14 | REV. NO.00

ENV002

BASIC ERECTION GUIDE – STRUCTURAL

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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D

VP Buildings
3200 Players Club Circle Memphis TN 38125

REV DATE BY DESCRIPTION

NTS

1/31/2024 SEDSheet 16:48:01

PRIMARY BRACING SED'S

BUILDER
Lemartec Corporation

CUSTOMER
Duke Energy

LOCATION
Dunn, North Carolina

PROJECT
Duke Energy Dunn Operations Center - Weld Shop

BUILDERS POW
23068 - Weld Shop

VP BUILDINGS
VARCO PRUDEN
A BlueScope Steel Company

VPC VERSION: 2023.4a

FILENAME: Duke Energy - Weld Shop

JOBNO
23-016000-01

DATE
01/31/2024

DRAWN/CHECK
MB WJC

PAGE
10

VP BUILDINGS
VARCO PRUDEN
A BlueScope Steel Company

a division of BlueScope Buildings North America, Inc.

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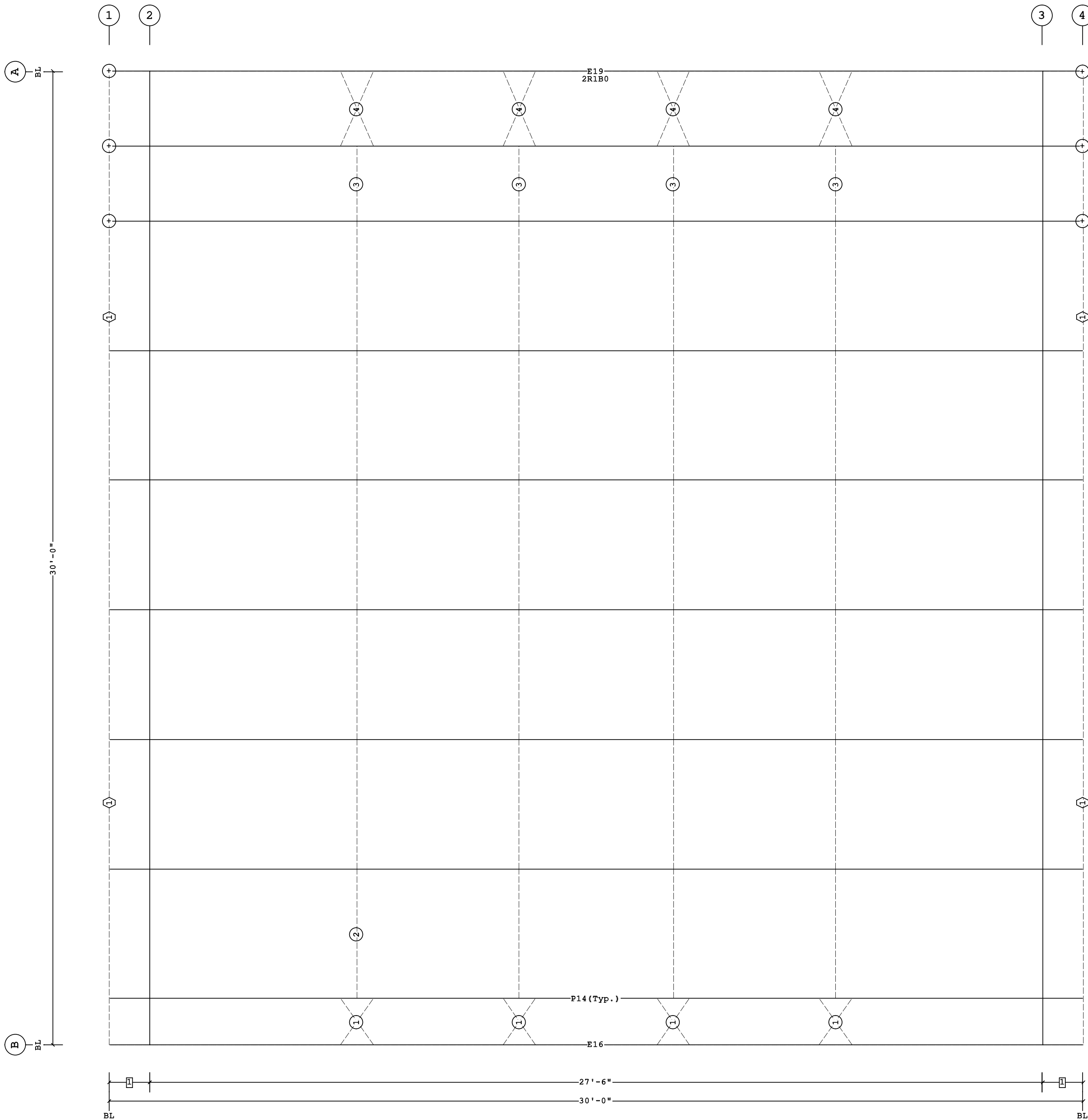
02/01/2024

PERMIT SET- For Building Dept. Approval

Secondary Part Schedule					Detail
Mark	Part	Thick.	Depth	Lap	
E16	00108HS2911417B01	0.0600	8 1/2"		
E19	00110ES2911417B01	0.0600	10"		
P14	10Z2911411VVB0	0.1130	10"		

Secondary Bracing Schedule			
Id	Qty	Mark No	Spacing
1	8	PBA0108	1'-5 1/8"
2	24	CPBB040108 (Typ)	4'-0"
3	4	CPBB020506	2'-3 13/16"
4	8	PBA0207	2'-3 13/16"
See SED:			
BR09K5, BR09JG, BR09RY, BR09RZ, BR09JR			
BR09JH			

Part Mark Key
1 RKCB15
(+) SSR Fixed Clip Location



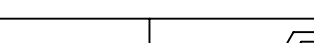
ROOF SECONDARY PLAN

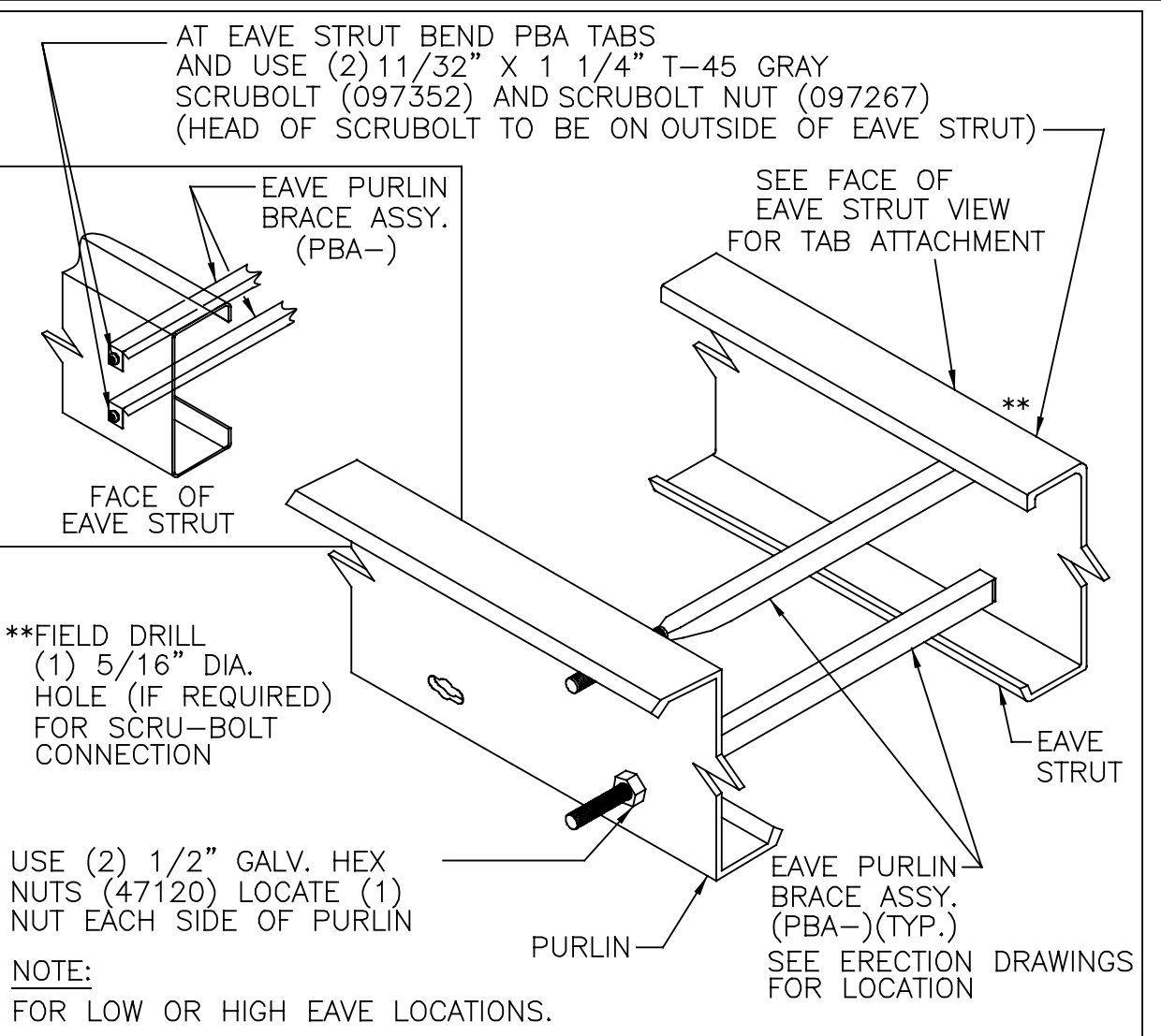
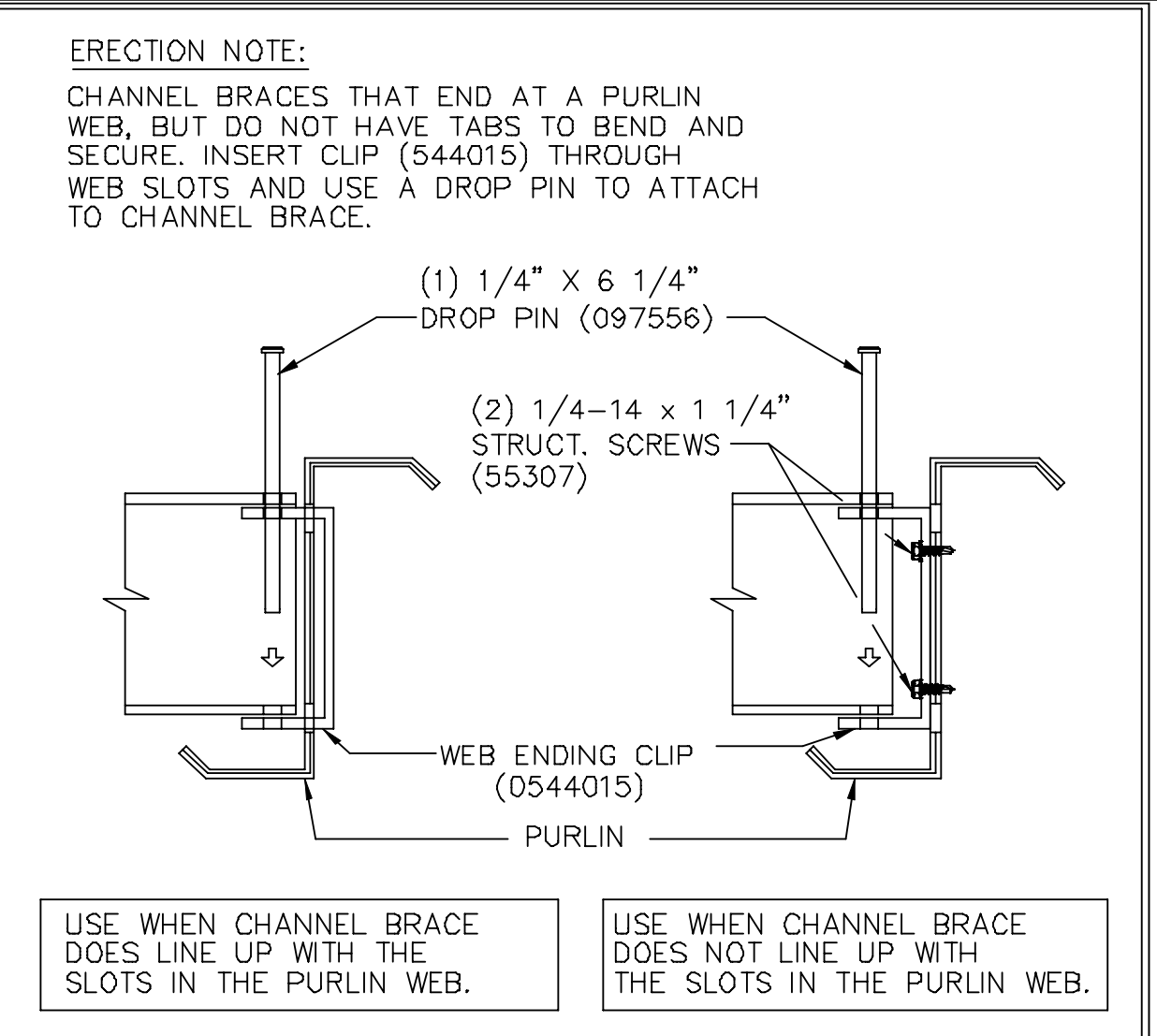
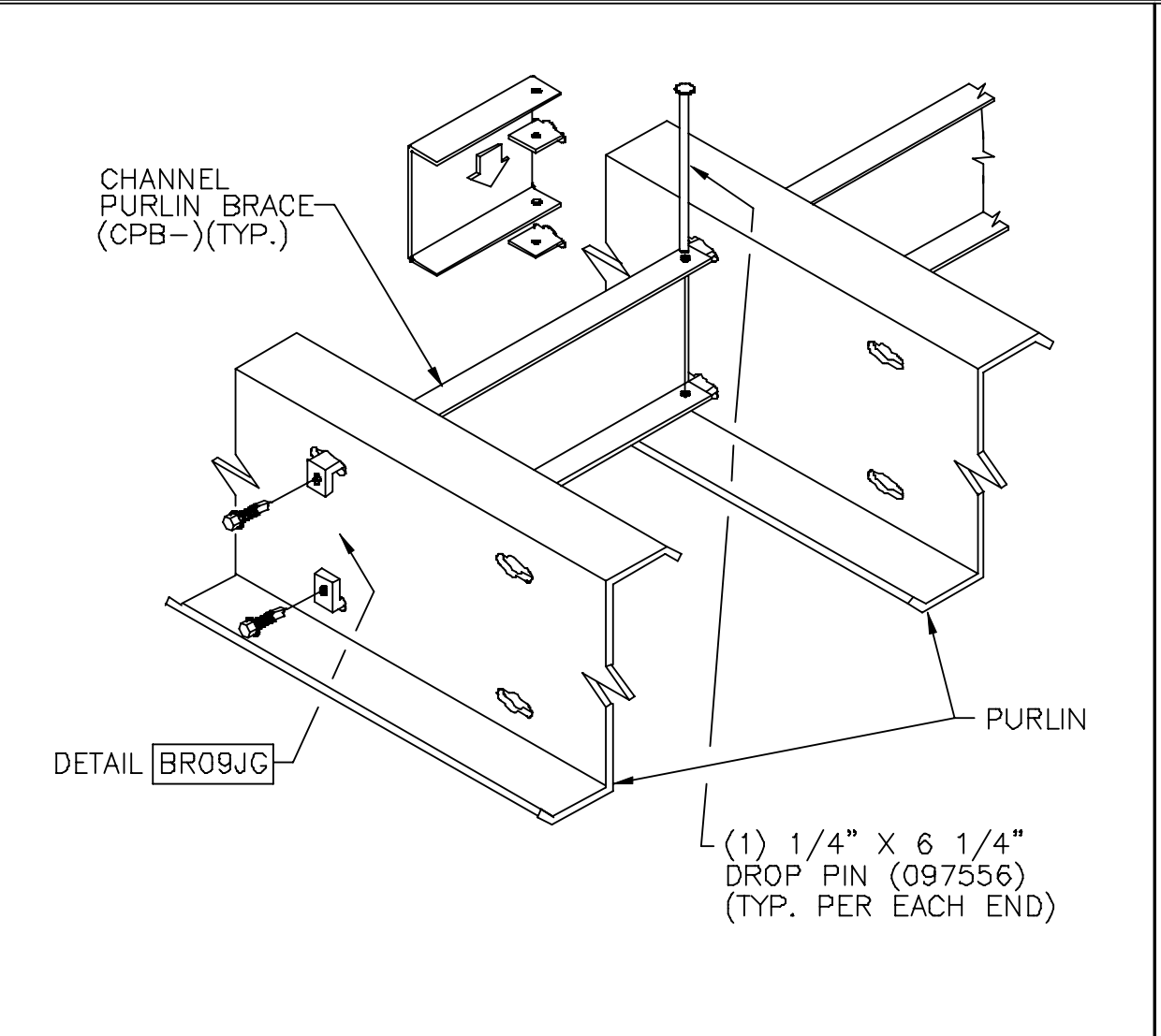
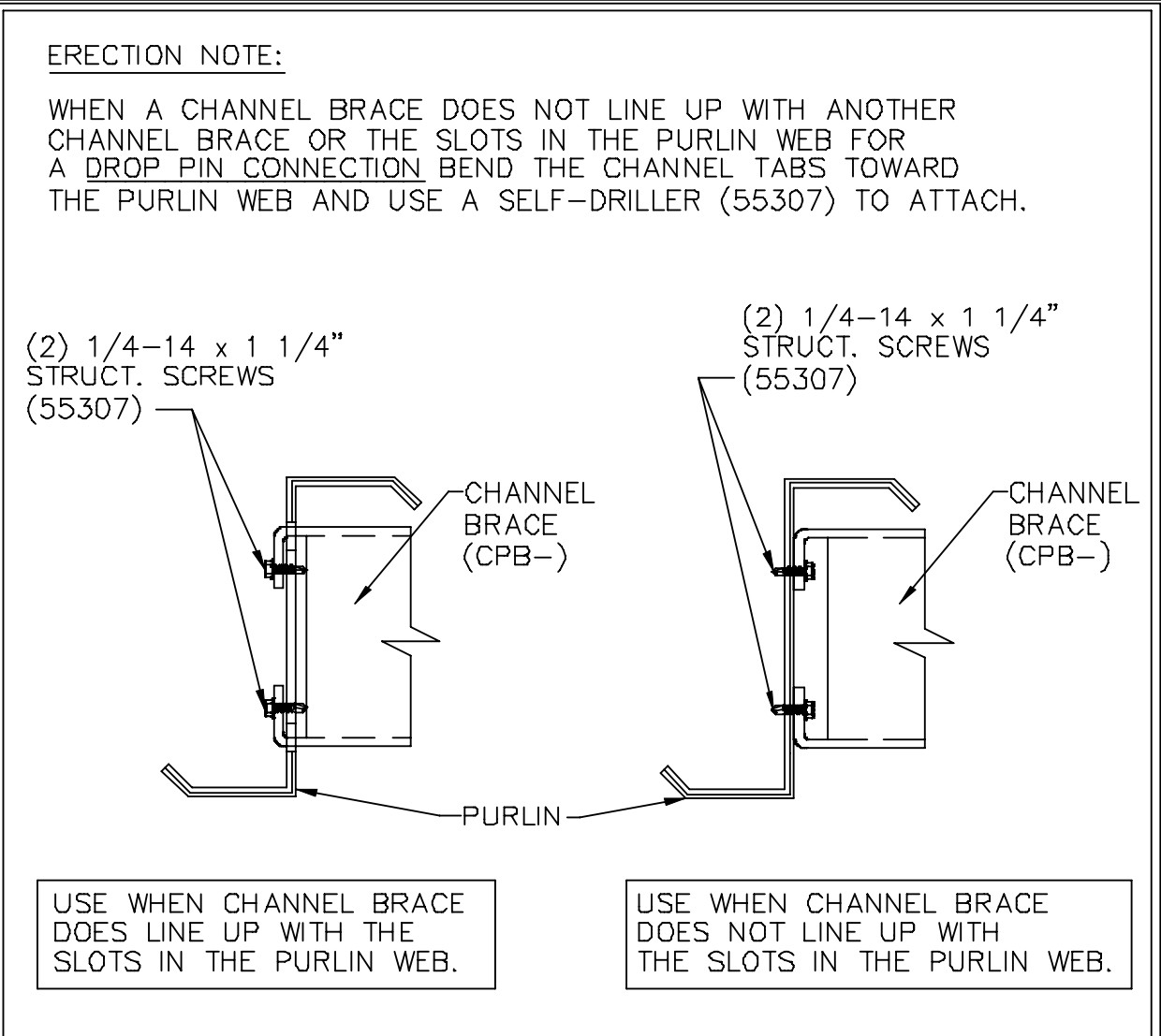
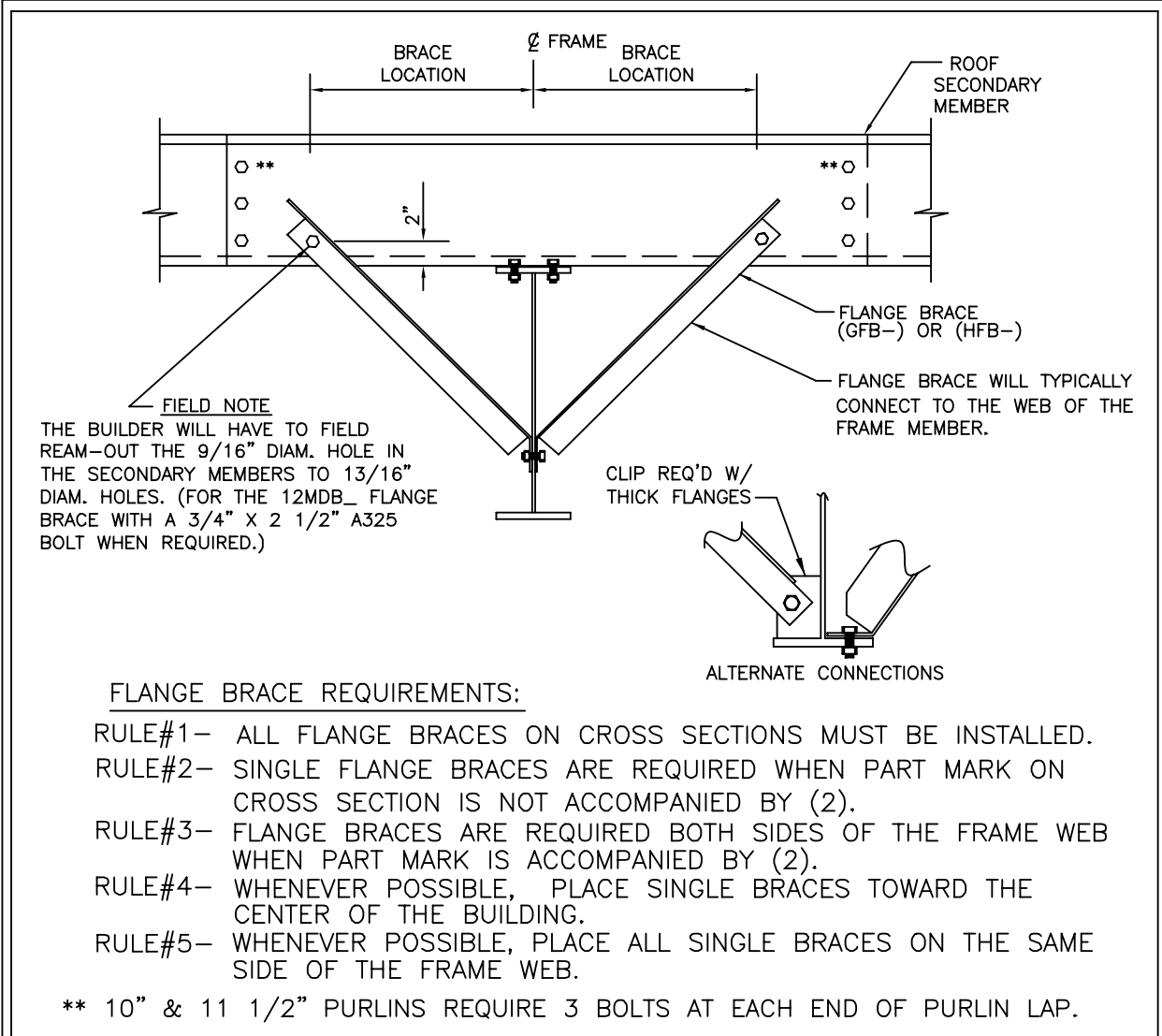
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1 1'-3"
Dimension Key

PERMIT SET- For Building Dept. Approval

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. 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. 3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.	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		ROOF SECONDARY PLAN				
			REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation		<div> VP BUILDINGS VARCO PRUDEN A BlueScope Steel Company VPC VERSION: 2023.4a</div>	<div>JOBNO 23-016000-01 DATE 01/31/2024 DRAWN/CHECK MB WJC PAGE 11</div>
							CUSTOMER	Duke Energy			
							LOCATION	Dunn, North Carolina			
							PROJECT	Duke Energy Dunn Operations Center - Weld Shop			
							BUILDERS PO#	23068 - Weld Shop			
			NTS				1/31/2024		16:48:03		FILENAME: Duke Energy - Weld Shop



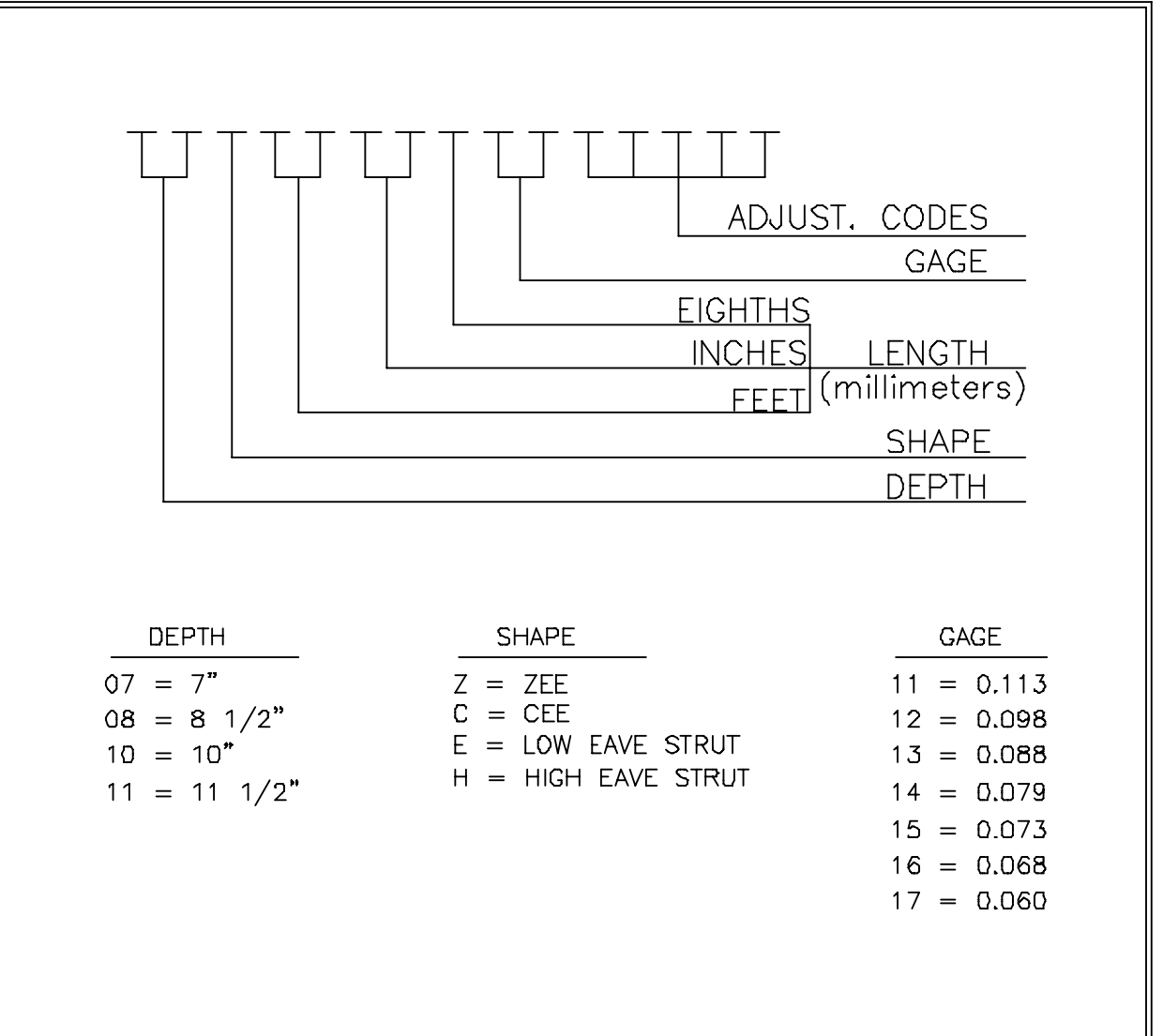
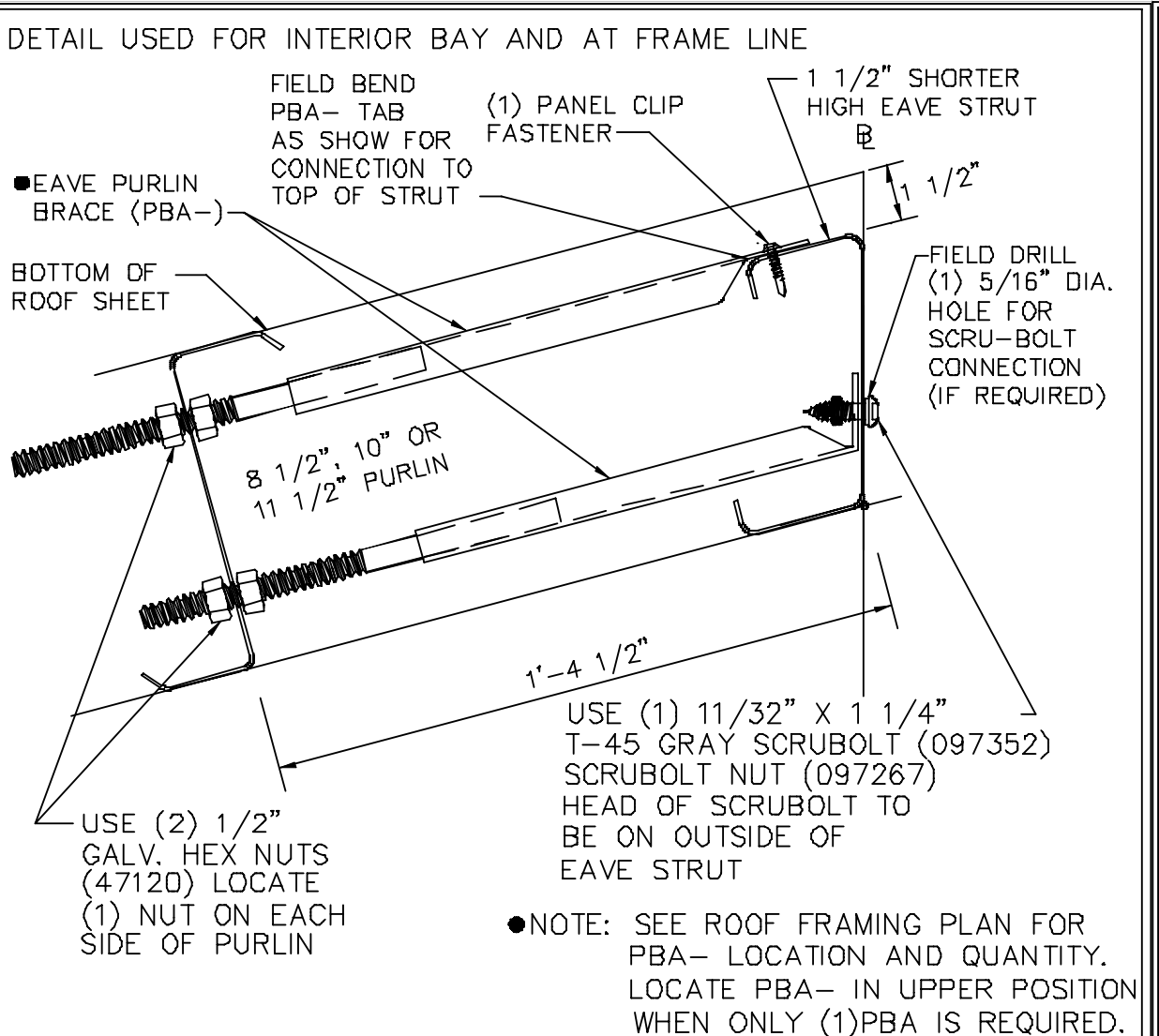
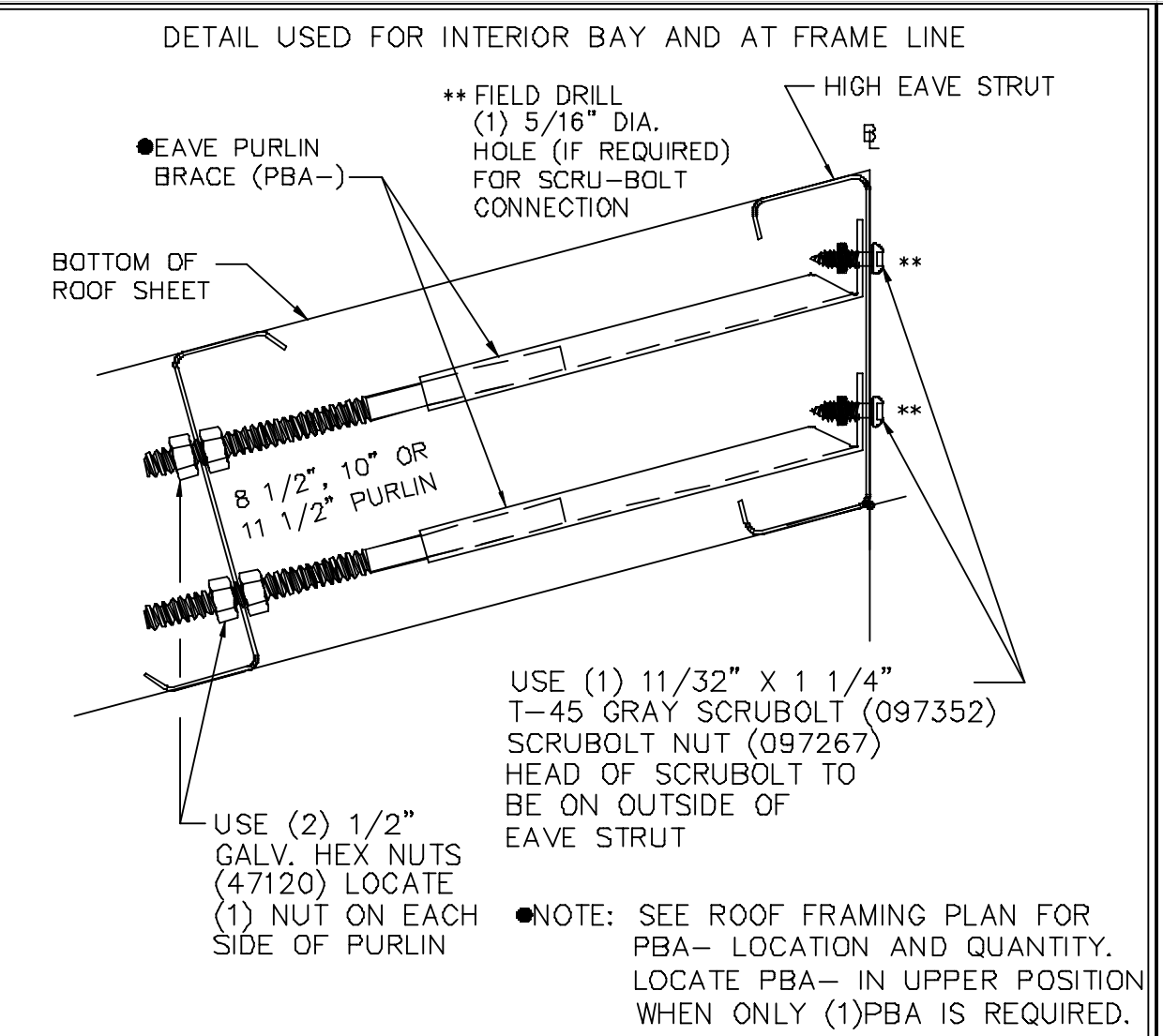
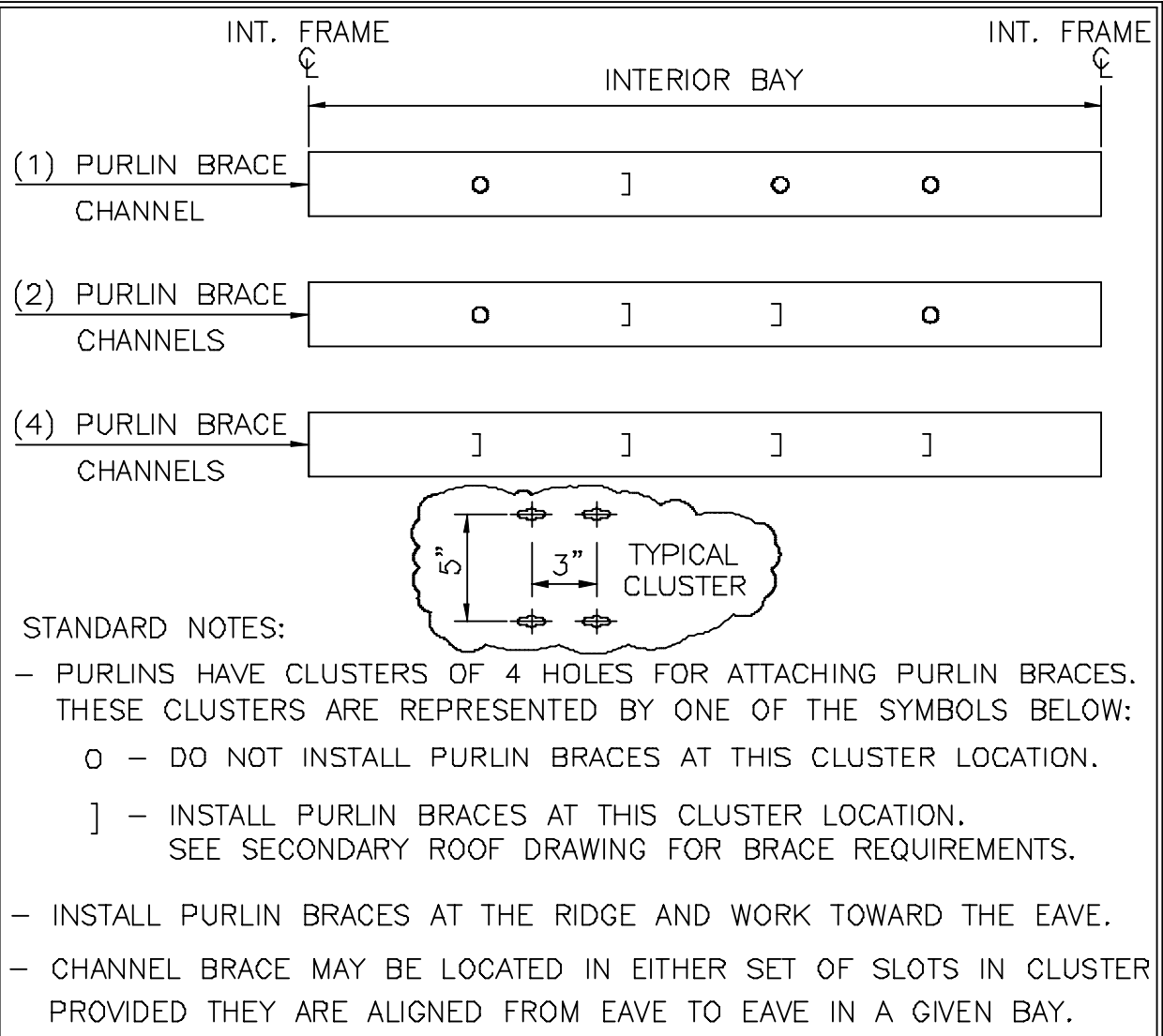
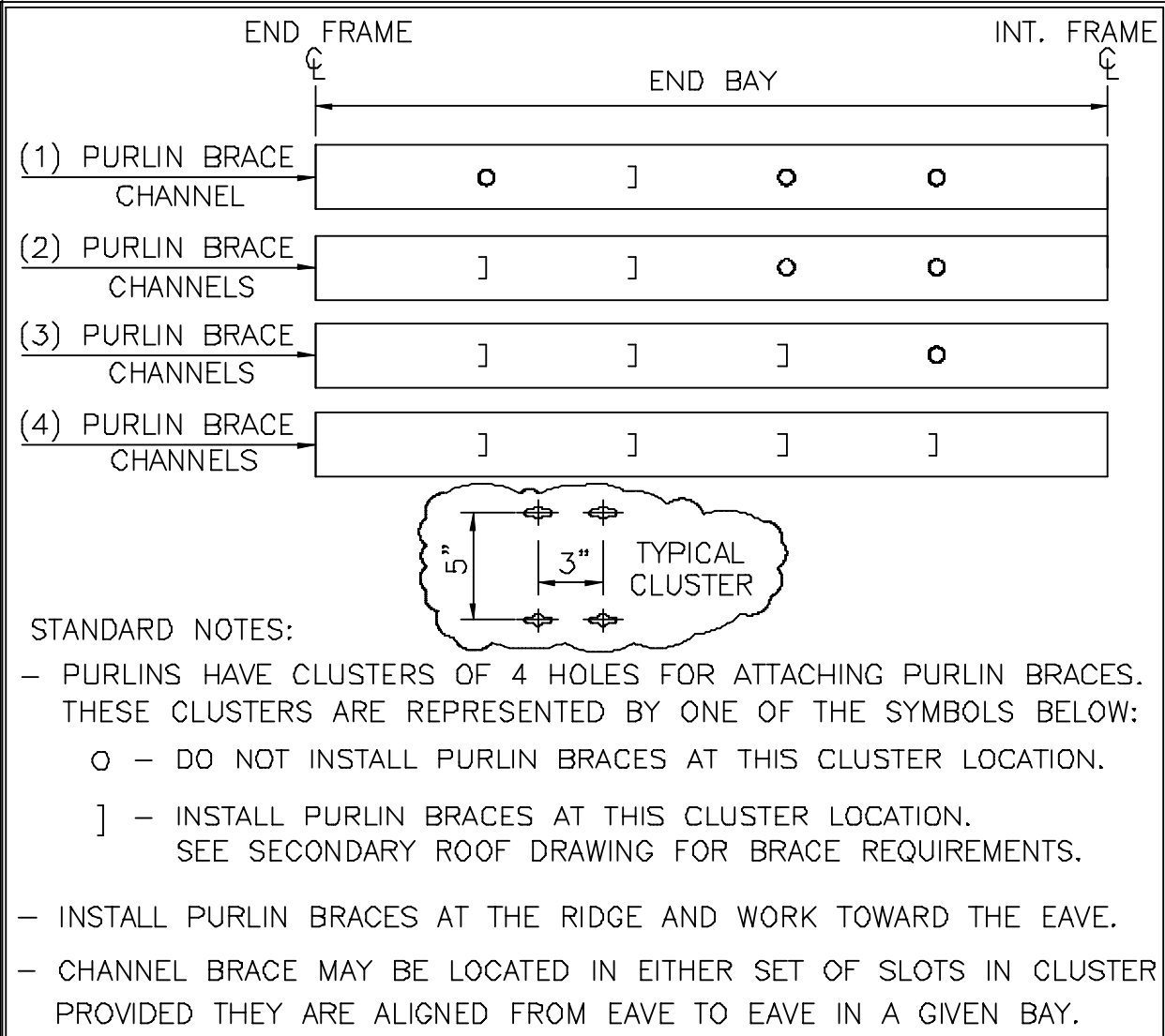
REV. DATE: 05/08/18 | REV. NO. 02
TYPICAL FLANGE BRACE CONNECTIONS
CONT. PURLIN LAP SHOWN, CONT. GIRT & SIMPLE PURLIN
BR06AE

REV. DATE: 04/01/11 | REV. NO. 01
CHANNEL BRACE ENDING AT PURLIN WEB
SELF-DRILLER WITH BENT TABS
BR09JG

REV. DATE: 07/01/09 | REV. NO. 00
SINGLE CHANNEL PURLIN BRACE
ENDING AT PURLIN WEB LOCATION
BR09JH

REV. DATE: 04/01/11 | REV. NO. 01
CHANNEL BRACE ENDING AT PURLIN WEB
WEB ENDING CLIP WITH DROP PIN
BR09JR

REV. DATE: 02/22/22 | REV. NO. 05
EAVE STRUT BRACE
BR09K5



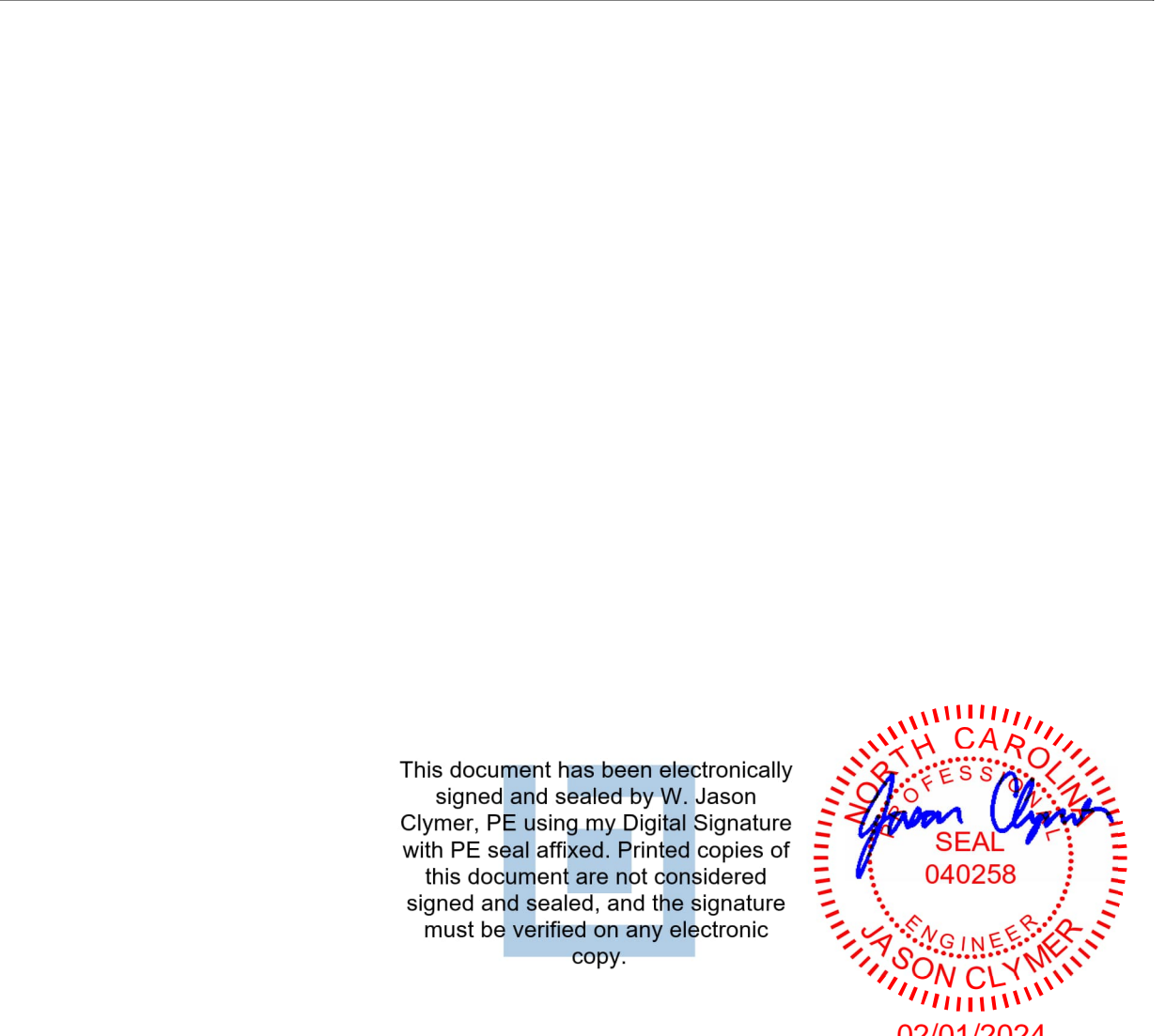
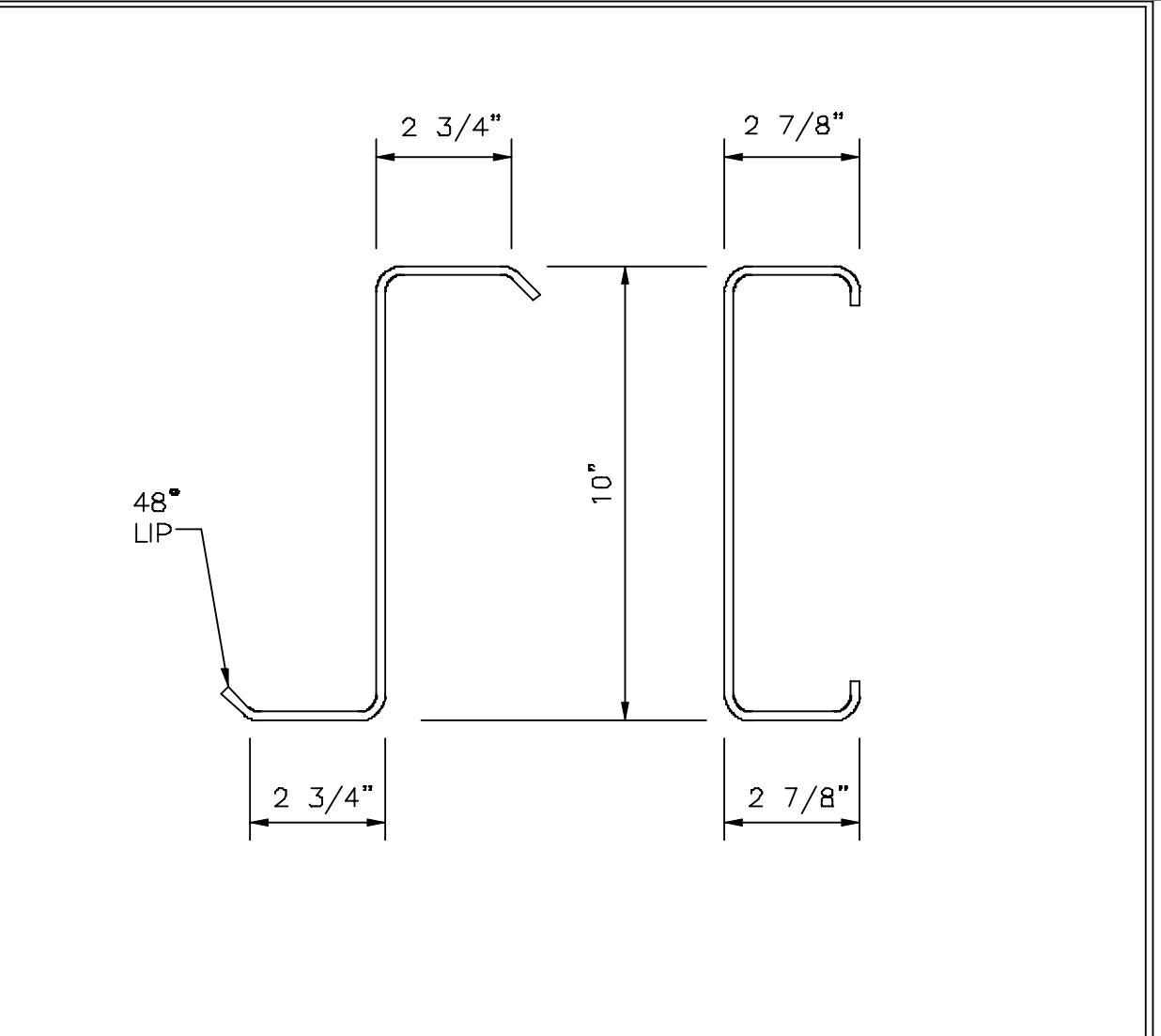
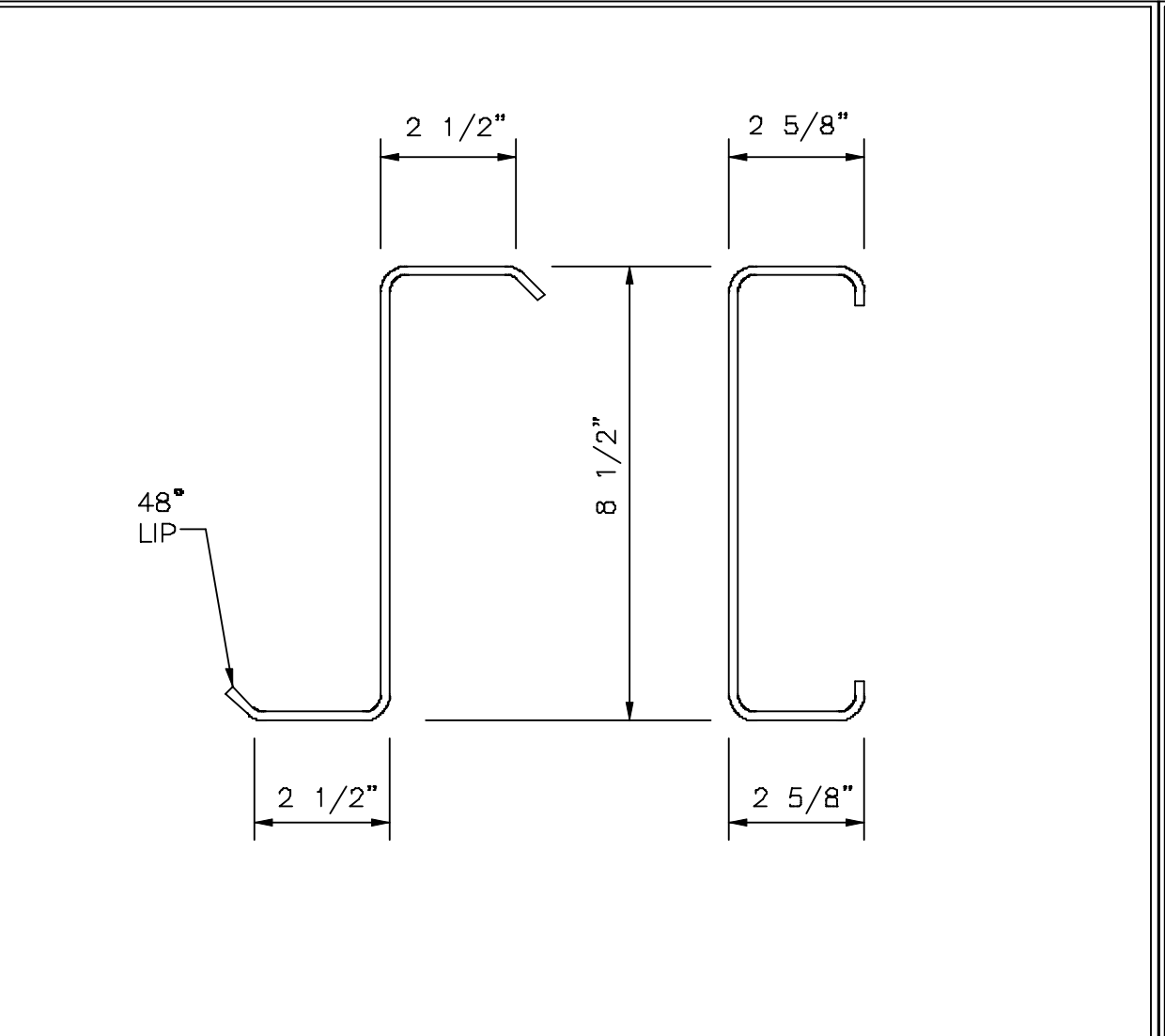
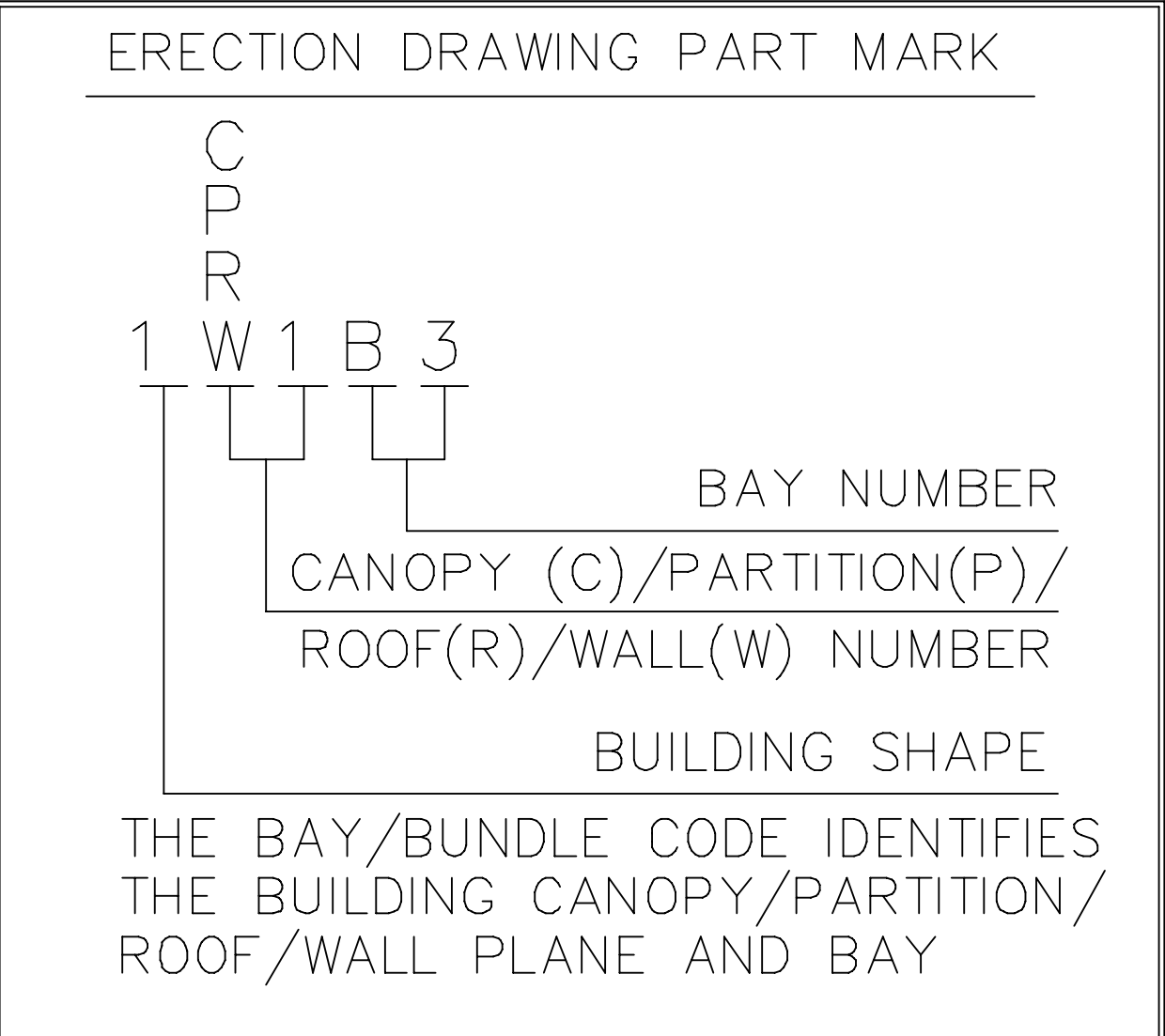
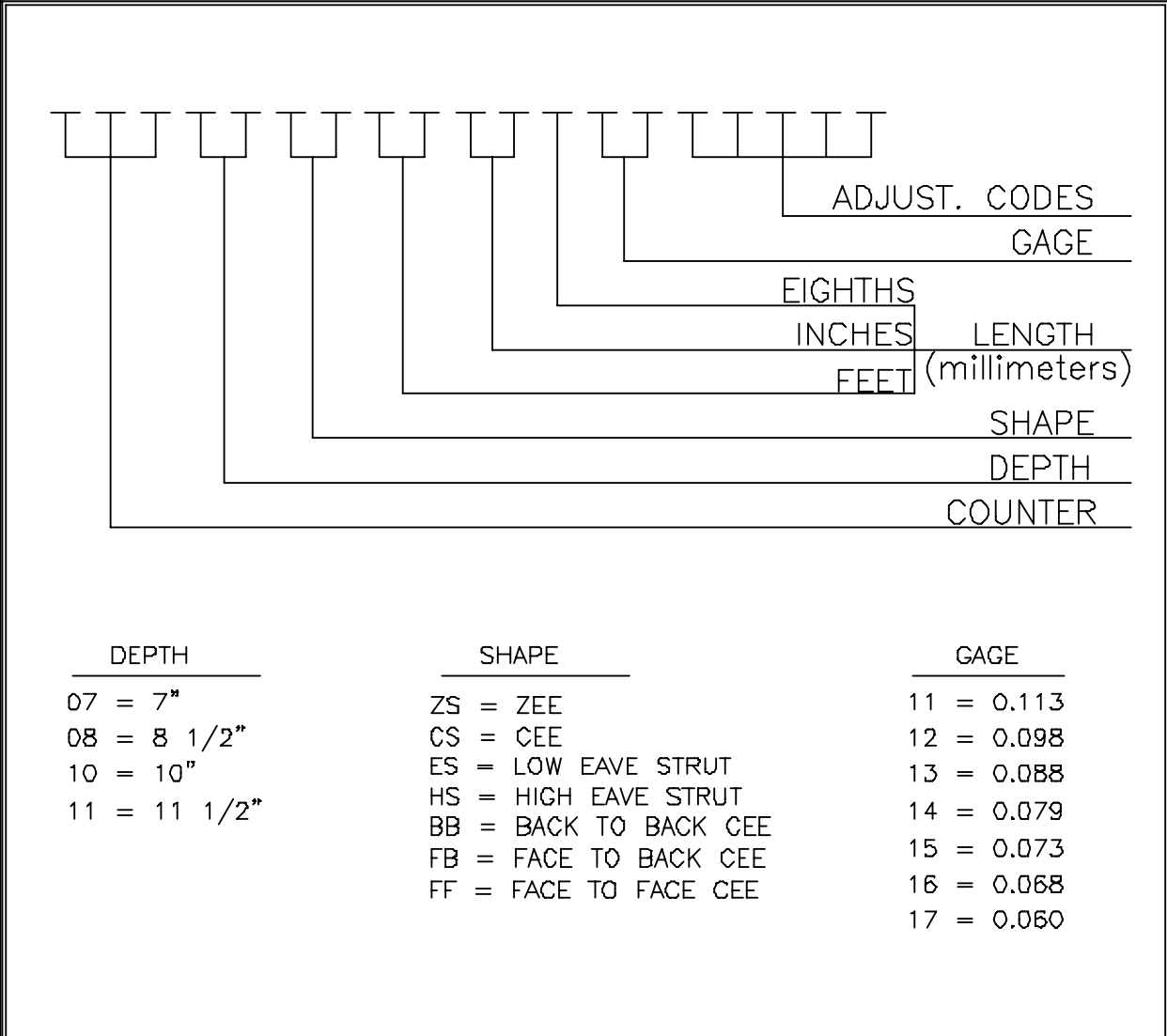
REV. DATE: 07/01/09 | REV. NO. 00
PURLIN BRACE CLUSTER LOCATION
END BAY CHANNEL LOCATION
BR09RY

REV. DATE: 07/01/09 | REV. NO. 00
PURLIN BRACE CLUSTER LOCATION
INTERIOR BAY CHANNEL LOCATION
BR09RZ

REV. DATE: 11/26/12 | REV. NO. 01
HIGH EAVE PURLIN BRACE
ALL WALL PANEL TYPE
BR09W2

REV. DATE: 04/26/16 | REV. NO. 02
SSR/SLR HIGH EAVE STRUT
ALL WALL PANEL TYPE
BR09Y2

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



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

REV. DATE: 01/31/13 | REV. NO. 01
SECONDARY BUNDLE LOCATION KEY
ALL SECONDARY DEPTHS
EN51B3

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

REV. DATE: 07/01/09 | REV. NO. 00
PURLIN AND GIRT SIZES
10" 254mm
EN53G1

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

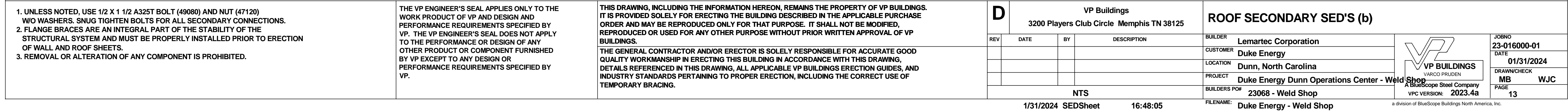
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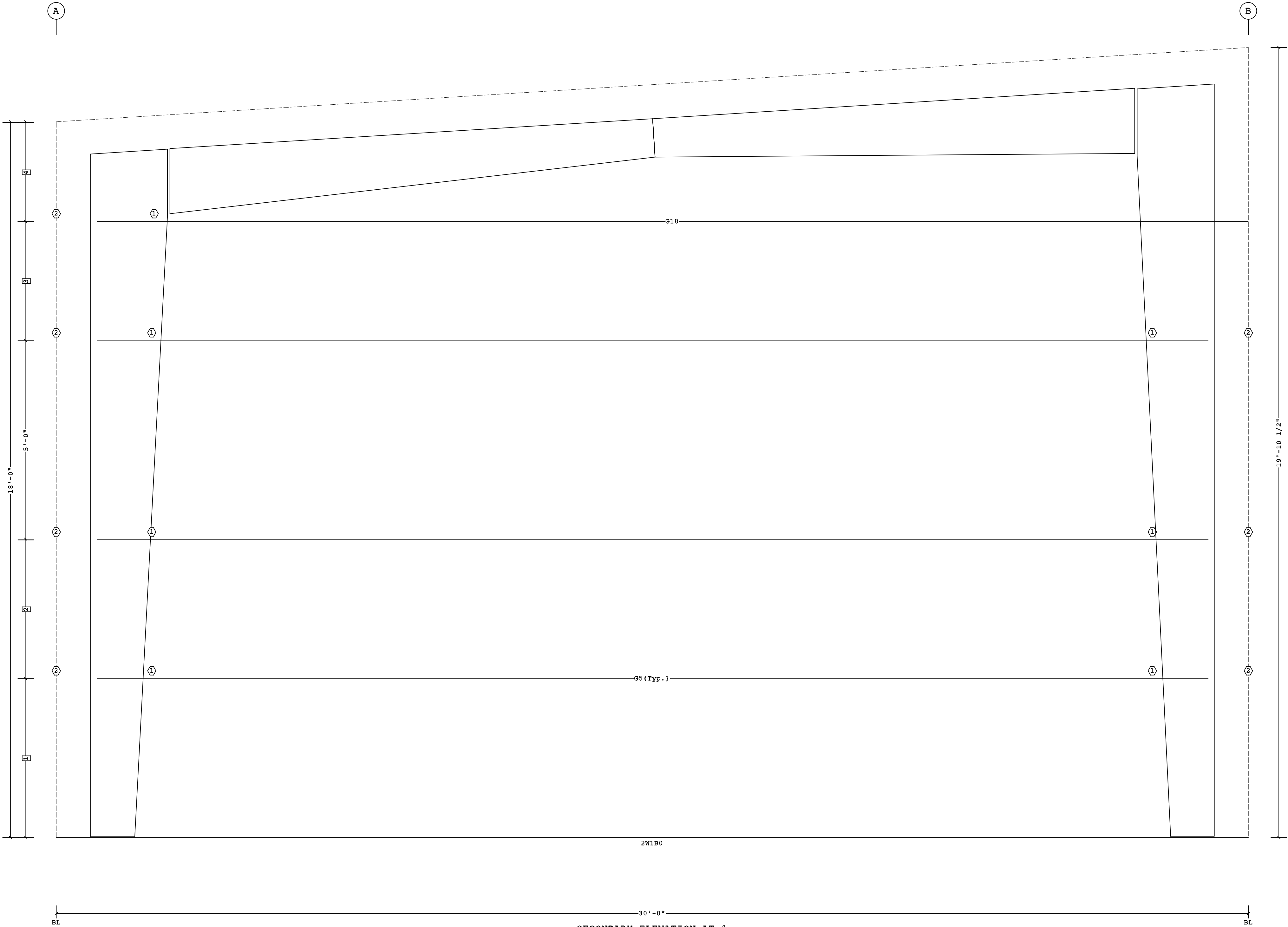
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VP Buildings
3200 Players Club Circle Memphis TN 38125
REV. DATE BY DESCRIPTION
NTS
1/31/2024 SEDSheet 16:48:03

ROOF SECONDARY SED'S (a)
BUILDER Lemartec Corporation
CUSTOMER Duke Energy
LOCATION Dunn, North Carolina
PROJECT Duke Energy Dunn Operations Center - Weld Shop
BUILDERS POW 23068 - Weld Shop
VP BUILDINGS
VARCO PRUDEN
A BlueScope Steel Company
VPC VERSION: 2023.4a
JOBNO 23-016000-01
DATE 01/31/2024
DRAWN/CHECK MB WJC
PAGE 12
PERMIT SET- For Building Dept. Approval



Secondary Part Schedule				
Mark	Part	Thick.	Depth	Lap
G18	10Z2811412DU00	0.0980	10"	
G5	10Z2711411UU00	0.1130	10"	
				Detail
				WS12A2
				WS12A2



4	2'-6"	2	GFA200
3	3'-0"		
2	3'-6"	1	VCC08403104
1	4'-0"		
Dimension Key		Part Mark Key	

Shape Name = Weld Shop, Wall = 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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VP Buildings			
3200 Players Club Circle Memphis TN 38125			
REV	DATE	BY	DESCRIPTION
NTS			

BUILDER	Lemartec Corporation
CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center - Weld Shop
BUILDERS PO#	23068 - Weld Shop
VP BUILDINGS	VARCO PRUDEN A BlueScope Steel Company
VPC VERSION:	2023.4a
FILENAME:	Duke Energy - Weld Shop



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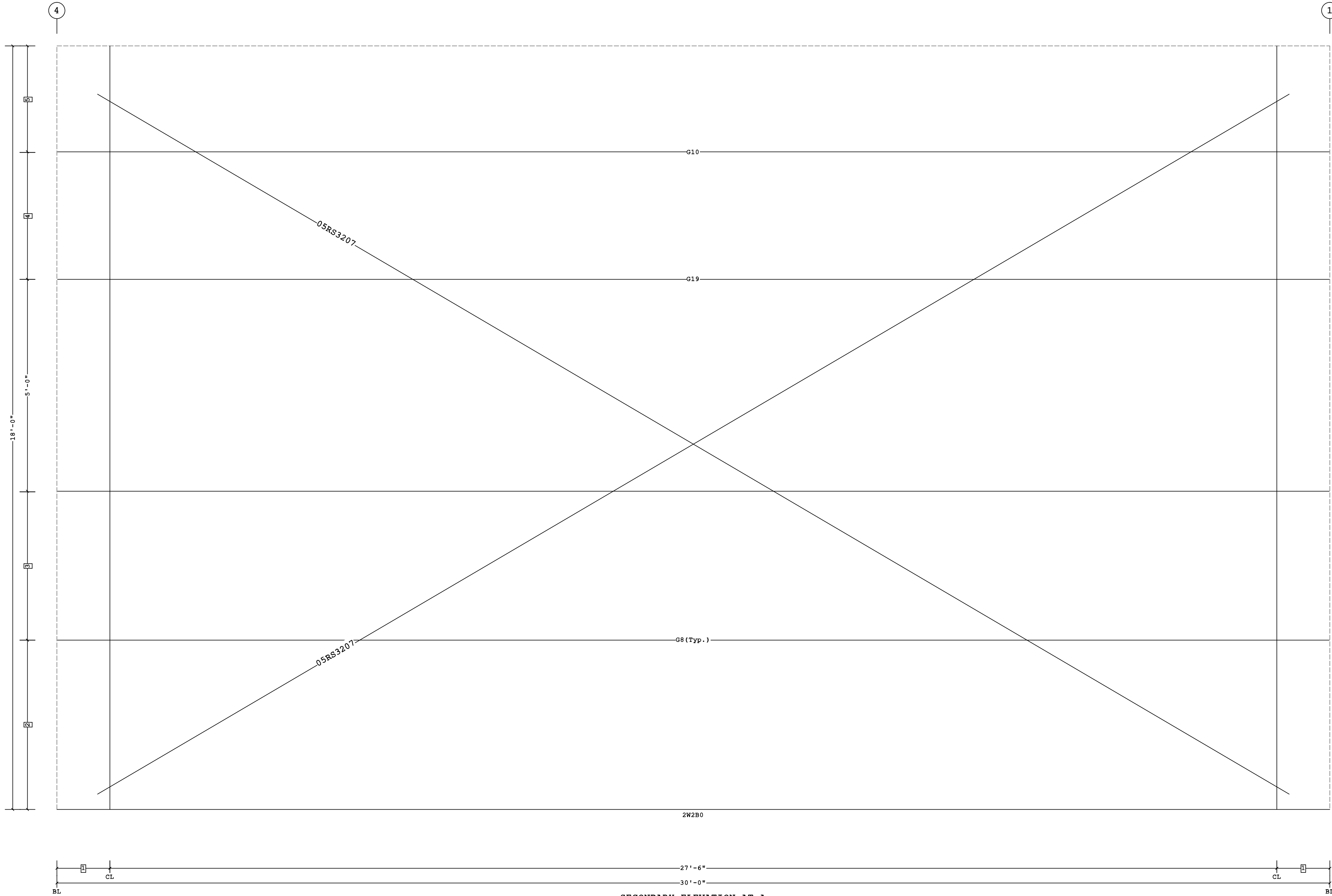
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SECONDARY ELEVATION AT 1

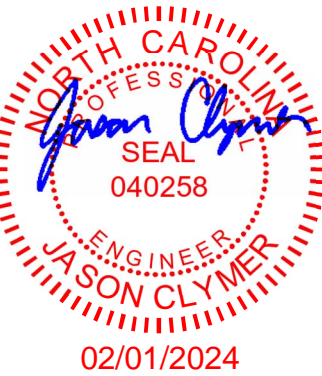
JOBNO	23-016000-01
DATE	01/31/2024
DRAWN/CHECK	MB WJC
PAGE	14

Secondary Part Schedule					
Mark	Part	Thick.	Depth	Lap	Detail
G10	10Z2911416VV00	0.0680	10"		WS12A2
G19	10Z2911413VV00	0.0880	10"		WS12A2
G8	10Z2911412VV00	0.0980	10"		WS12A2

Bracing Part Schedule					Detail
Part	Qty	Length			
05RS3207	2	32'-7"			BR01G2



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- 5 2'-6"
- 4 3'-0"
- 3 3'-6"
- 2 4'-0"
- 1 1'-3"

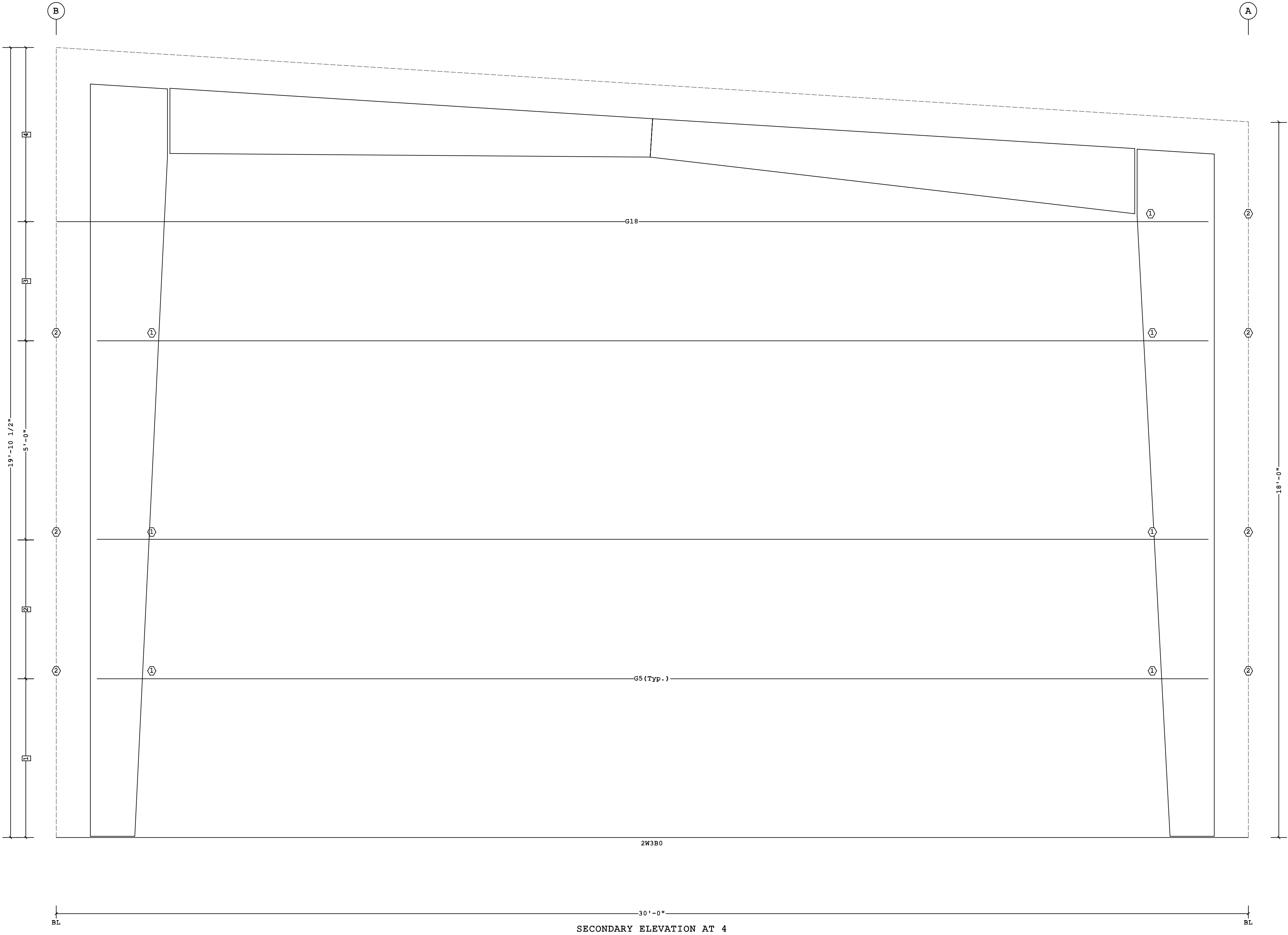
Dimension Key

Shape Name = Weld Shop, Wall = 2

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.			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.	<div>D</div> <div>VP Buildings</div> <div>3200 Players Club Circle Memphis TN 38125</div>	SECONDARY ELEVATION AT A						
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.							REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation	<div><div><div>VP BUILDINGS</div><div>VARCO PRUDEN</div><div>A BlueScope Steel Company</div></div><div>VPC VERSION: 2023.4a</div></div> <div>JOBNO 23-016000-01</div> <div>DATE 01/31/2024</div> <div>DRAWN/CHECK MB WJC</div> <div>PAGE 15</div> <div>a division of BlueScope Buildings North America, Inc.</div>
3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.											CUSTOMER	Duke Energy	
											LOCATION	Dunn, North Carolina	
											PROJECT	Duke Energy Dunn Operations Center - Weld Shop	
			NTS				BUILDERS PO#	23068 - Weld Shop	FILENAME: Duke Energy - Weld Shop				
							1/31/2024	16:48:08					

a division of BlueScope Buildings North America, Inc.

Secondary Part Schedule				
Mark	Part	Thick.	Depth	Lap
G18	10Z2811412DU00	0.0980	10"	
G5	10Z2711411UU00	0.1130	10"	
				Detail
				WS12A2
				WS12A2



4	4'-4 1/2"	
3	3'-0"	
2	3'-6"	2 GFA200
1	4'-0"	1 VCC08403104
□ Dimension Key		○ Part Mark Key

Shape Name = Weld Shop, Wall = 3

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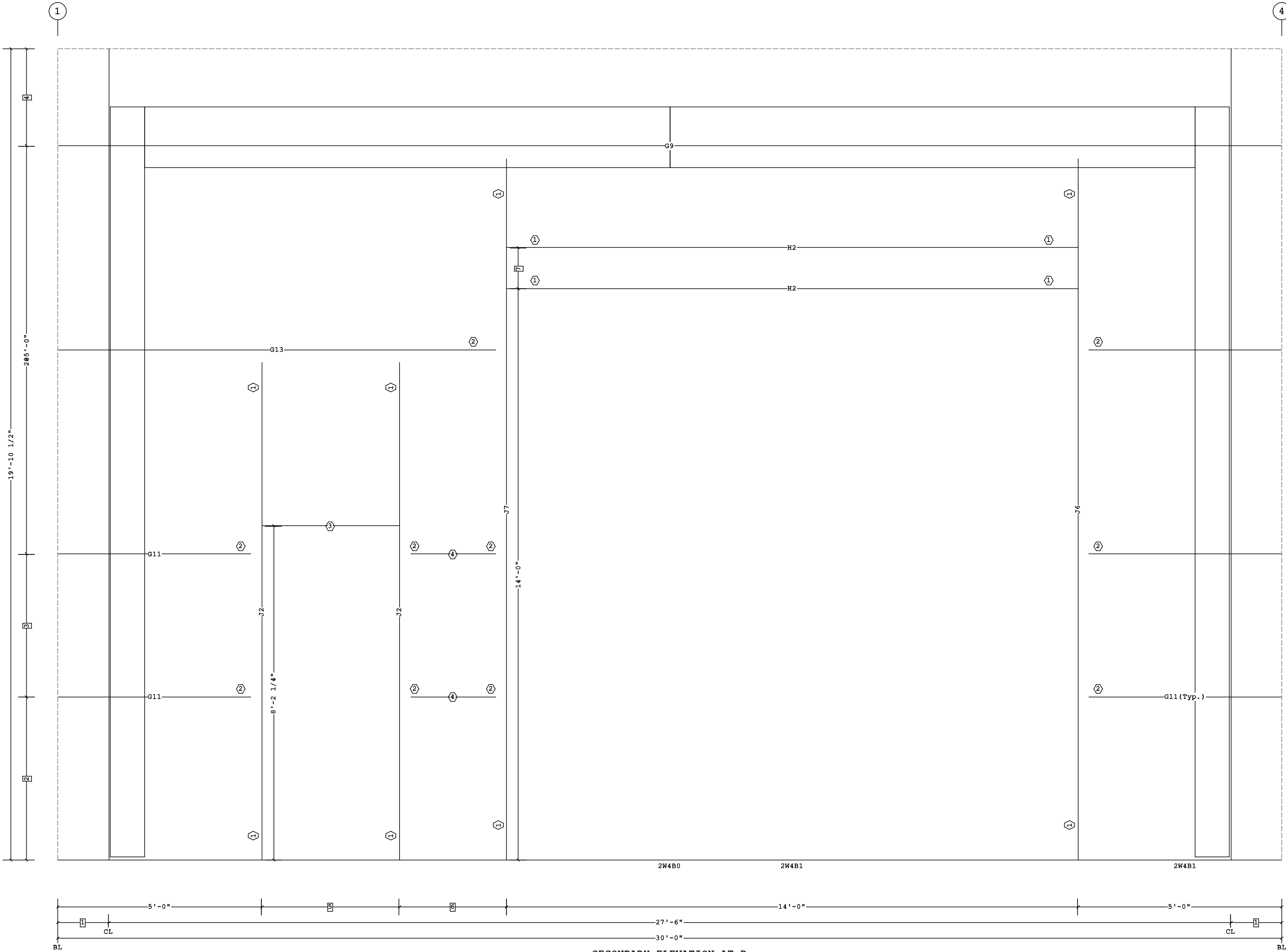
D			
VP Buildings			
3200 Players Club Circle Memphis TN 38125			
REV	DATE	BY	DESCRIPTION
NTS			

PERMIT SET- For Building Dept. Approval			
SECONDARY ELEVATION AT 4			
BUILDER	Lemartec Corporation		
CUSTOMER	Duke Energy		
LOCATION	Dunn, North Carolina		
PROJECT	Duke Energy Dunn Operations Center - Weld Shop		
BUILDERS PO#	23068 - Weld Shop		
VP BUILDINGS	VARCO PRUDEN		
A BlueScope Steel Company	VPC VERSION: 2023.4a		
FILENAME:	Duke Energy - Weld Shop		
JOBNO	23-016000-01		
DATE	01/31/2024		
DRAWN/CHECK	MB WJC		
PAGE	16		

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Secondary Part Schedule					
Mark	Part	Thick.	Depth	Lap	Detail
G11	10Z0408417GV00	0.0600	10"		WS12A2,WS20F2
G13	10Z1008417GV00	0.0600	10"		WS12A2,WS20F2
G17	00110ZS020101700	0.0600	10"		WS12A2,WS20F2
G9	10Z2911411VV00	0.1130	10"		WS12A2
H1	DHD0304417	0.0000	10"		WS21D7
H2	00410JS1400017	0.0600	10"		WS20F9
J2	00110JS1202217	0.0600	10"		WS20F2,WS20B2,WS20B8
J6	00310JS1702216	0.0690	10"		WS20F9,WS20F2,WS20B2,WS20B8
J7	00210JS1702215	0.0730	10"		WS20F9,WS20F2,WS20B2,WS20B8



- 71'-0"

62'-7 1/2"

53'-4 1/2"

42'-4 1/2"

33'-6"

24'-0"

11'-3"
- 4G17

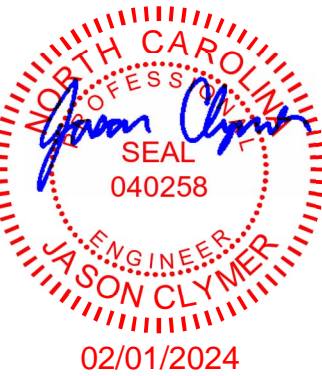
3H1

2JTG4

1PG1
- Dimension Key

Part Mark Key

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PERMIT SET- For Building Dept. Approval

<div>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.</div> <div>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.</div> <div>3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.</div>	<div>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.</div>	<div>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.</div> <div>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.</div>	<div>D</div> <div>VP Buildings</div> <div>3200 Players Club Circle Memphis TN 38125</div>	SECONDARY ELEVATION AT B						
				REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation	<div><div><div></div></div><div>VP BUILDINGS</div><div>VARCO PRUDEN</div><div>A BlueScope Steel Company</div><div>VP VERSION: 2023.4a</div></div> <div>JOBNO 23-016000-01</div> <div>DATE 01/31/2024</div> <div>DRAWN/CHECK MB WJC</div> <div>PAGE 17</div> <div>a division of BlueScope Buildings North America, Inc.</div>
								CUSTOMER	Duke Energy	
								LOCATION	Dunn, North Carolina	
								PROJECT	Duke Energy Dunn Operations Center - Weld Shop	
				BUILDERS PO#				23068 - Weld Shop		
				NTS				FILENAME:	Duke Energy - Weld Shop	
				1/31/2024				16:48:10		

COLUMN OR BEAM WEB

ROD

HEX NUT

WASHER "A"

WASHER "B"

HILLSIDE WASHER

WEB REINFORCEMENT PLATE (IF PRESENT) MAY BE SHOP WELDED ON EITHER SIDE OF THE WEB.

DESCRIPTION/PART NO				
ROD DIAM	NUT	HARD STEEL ROUND WASHER A	HARD STEEL WASHER B	HILLSIDE WASHER
3/8"	95321	3/8" FLAT WASHER (96408)	1/2" BEVEL SQUARE WASHER (46040)	
1/2"	95230	1/2" FLAT WASHER (95872)	3/4" FLAT ROUND WASHER (95946)	543334
5/8"	95233	5/8" FLAT WASHER (95845)		
3/4"	95235	3/4" FLAT WASHER (95946)	1" FLAT ROUND WASHER (95948)	543335
7/8"	95237	7/8" FLAT WASHER (95947)		
1"	95238	1" FLAT WASHER (95948)	1 1/8" FLAT ROUND WASHER (95949)	543336
1 1/8"	95239	1 1/8" FLAT WASHER (95949)		

REV. DATE:08/02/17

REV. NO. 04

ROD BRACE
WEB SLOT ASSEMBLY

BR01G2

BRACE LOCATION

FRAME

BRACE LOCATION

ROOF SECONDARY MEMBER

FLANGE BRACE (GFB-) OR (HFB-)

FLANGE BRACE WILL TYPICALLY CONNECT TO THE WEB OF THE FRAME MEMBER.

FIELD NOTE

THE BUILDER WILL HAVE TO FIELD REAM-OUT THE 9/16" DIAM. HOLE IN THE SECONDARY MEMBERS TO 13/16" DIAM. HOLES. (FOR THE 12MOB. FLANGE BRACE WITH A 3/4" X 2 1/2" A325 BOLT WHEN REQUIRED.)

CLIP REQ'D W/ THICK FLANGES

ALTERNATE CONNECTIONS

FLANGE BRACE REQUIREMENTS:

RULE#1- ALL FLANGE BRACES ON CROSS SECTIONS MUST BE INSTALLED.

RULE#2- SINGLE FLANGE BRACES ARE REQUIRED WHEN PART MARK ON CROSS SECTION IS NOT ACCOMPANIED BY (2).

RULE#3- FLANGE BRACES ARE REQUIRED BOTH SIDES OF THE FRAME WEB WHEN PART MARK IS ACCOMPANIED BY (2).

RULE#4- WHENEVER POSSIBLE, PLACE SINGLE BRACES TOWARD THE CENTER OF THE BUILDING.

RULE#5- WHENEVER POSSIBLE, PLACE ALL SINGLE BRACES ON THE SAME SIDE OF THE FRAME WEB.

** 10" & 11 1/2" PURLINS REQUIRE 3 BOLTS AT EACH END OF PURLIN LAP.

REV. DATE:05/06/18

REV. NO. 02

TYPICAL FLANGE BRACE CONNECTIONS
CONT. PURLIN LAP SHOWN, CONT. GIRT & SIMPLE PURLIN

BR06AE

PORTAL FRAME

2"

(2,3 OR 4) A325 BOLTS

PRIMARY FRAME

1/2" x 1 1/2" A-325 BOLT (49080) TYP.

FLANGE BRACE REQUIREMENTS:

PORTAL COLUMN DEPTH	FLANGE BRACE
≤ 24"	HFB3060
> 24" & ≤ 36"	HFB4106
> 36"	HFB6032

(2) A325 BOLTS

NOTES:

① FIELD DRILL 9/16" HOLES IN PRIMARY AND PORTAL FRAME WEBS FOR FLANGE BRACE CONNECTIONS.

② DRILL 9/16" HOLE IN PORTAL FRAME COLUMN WEB APPROX. 2" FROM BOLTING PLATE @ BEAM C.

REV. DATE:03/17/16

REV. NO. 03

FLUSH PORTAL FRAME CONNECTION
FLANGE BRACE CONNECTION AND LOCATION

BR12K1

ADJUST. CODES

GAUGE

EIGHTHS INCHES

LENGTH FEET (millimeters)

SHAPE

DEPTH

COUNTER

DEPTH	SHAPE	GAUGE
07 = 7"	Z = ZEE	11 = 0.113
08 = 8 1/2"	C = CEE	12 = 0.098
10 = 10"	E = LOW EAVE STRUT	13 = 0.088
11 = 11 1/2"	H = HIGH EAVE STRUT	14 = 0.079
		15 = 0.073
		16 = 0.068
		17 = 0.060

REV. DATE:07/01/09

REV. NO. 00

SECONDARY PART MARK NUMBER
COMMON GENERATED MARK NUMBERS

EN51B1

ADJUST. CODES

GAUGE

EIGHTHS INCHES

LENGTH FEET (millimeters)

SHAPE

DEPTH

COUNTER

DEPTH	SHAPE	GAUGE
07 = 7"	ZS = ZEE	11 = 0.113
08 = 8 1/2"	CS = 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

REV. DATE:07/01/09

REV. NO. 00

SPECIAL SECONDARY PART MARK KEY
COMMON GENERATED MARK NUMBERS

EN51B2

C

P

R

1

W

1

B

3

BAY NUMBER

CANOPY (C)/PARTITION(P)/

ROOF(R)/WALL(W) NUMBER

BUILDING SHAPE

THE BAY/BUNDLE CODE IDENTIFIES THE BUILDING CANOPY/PARTITION/ROOF/WALL PLANE AND BAY

REV. DATE:01/31/13

REV. NO. 01

SECONDARY BUNDLE LOCATION KEY
ALL SECONDARY DEPTHS

EN51B3

2 3/4"

2 7/8"

10"

48° LIP

2 3/4"

2 7/8"

REV. DATE:07/01/09

REV. NO. 00

PURLIN AND GIRT SIZES
10" 254mm

EN53G1

CORNER COLUMN

ENDWALL GIRT ZEE GIRT SHOWN CEE GIRT SIMILAR

CORNER GIRT CLIP (VCC-)

GIRT

SIDEWALL GIRT ZEE GIRT SHOWN CEE GIRT SIMILAR

GIRT CLIP (BOLTED) (WELDED) (PG1) (GC1) AT 7" GIRT (PG1) (GC1) AT 8 1/2" GIRT (GCD-) (GCA-) AT 10" GIRT (GCD-) (GCA-) AT 11 1/2" GIRT

GIRT DEPTH

8 1/4" AT 7" SW GIRT

9 1/4" AT 8 1/2" SW GIRT

1'-0 1/4" AT 11 1/2" SW GIRT

1'-0 1/4" AT 10" SW GIRT

GIRT FILLER ANGLE (GFA-) W/ (2) 55307

DIM. A:

1'-0" AT 7" & 8 1/2" GIRTS

1'-3" AT 10" & 11 1/2" GIRTS OR GREATER FOR SPECIAL FRAME SETBACKS.

NOTE: FIELD NOTCH ENDWALL FLANGE WHEN CORNER COLUMN FLANGE INTERFERES WITH ENDWALL GIRTS.

REV. DATE:04/05/17

REV. NO. 03

GIRT CONN. AT CORNER COLUMN
ANY OUTSET GIRT AT EW, ANY GIRT AT SW

WS12A2

OPTION FOR FO'S UP TO 9' X 9' USE (3) 1/4"-14 X 1 1/4" SDS (55307) LOCATED APPROX AS SHOWN. NO CLOSER THAN 3/8" FROM EDGE OF CLIP OR HOLES. SCREW SPACING NOT LESS THAN 3/4" APART.

FIELD LOCATE AND DRILL (2) 9/16" DIAMETER HOLES IN ZEE GIRT TO ATTACH JAMB (2) 1/2" X 1 1/2" A325 BOLT (49080)

GIRT ELEVATION SEE SECTION BELOW

DOUBLE JAMB CONNECTION

JAMB, SINGLE OR DOUBLE

JAMB CAN BE 1 1/2" DEEPER THAN THE JAMB SUPPORT GIRT. (ONLY EXCEPTION: 11 1/2" JAMB CAN BE USED W/ 8 1/2" GIRT) ALIGN JAMB AND GIRT AT BL.

[PG1 CLIP = 3 3/4" AT 7", 8 1/2", 10" GIRTS

PGV1067 CLIP = 4 3/4" AT 11 1/2" GIRTS

REV. DATE:11/30/15

REV. NO. 03

JAMB TO GIRT
SINGLE OR DOUBLE JAMB, ANY ZEE GIRT

WS20B2

SECOND CEE ON A DOUBLE JAMB IS HELD BACK 6" FROM EACH END OF MAIN JAMB.

JAMB, SINGLE OR DOUBLE

JAMB BASE CLIP (PG1)

1/2" ANCHOR RODS WITH HARDENED WASHER

(2) 1/2" A307 THIN HEAD BOLT (096636) & NUT (095032)

FRAMED OPENING

6" MAX

CONCRETE FSNR (BY BUILDER)

BASE MEMBER

JAMB CAN BE 1 1/2" DEEPER THAN THE JAMB SUPPORT GIRT ALIGN JAMB AND GIRT AT BL.

SECTION A-A

REV. DATE:07/01/09

REV. NO. 00

JAMB BASE ATTACHMENT
SINGLE OR DOUBLE JAMB

WS20B8

GIRT TO JAMB CLIP	JAMB DEPTH			
	7"	8 1/2"	10"	11 1/2"
7"	JTG3	JTG6	JTG5	JTG7
8 1/2"		JTG1	JTG5	JTG7
10"			JTG4	JTG2
11 1/2"				JTG2

(2) 1/2" X 1 1/2" A325 BOLT (49080)

DIM. A

SECTION A-A

DIM. A

3 1/4" AT 7", 8 1/2", 10" JAMB

6 1/4" AT 11 1/2" JAMB

JAMB CAN BE 1 1/2" DEEPER THAN THE JAMB SUPPORT GIRT. (ONLY EXCEPTION: 11 1/2" JAMB CAN BE USED W/ 8 1/2" GIRT) ALIGN JAMB AND GIRT AT BL.

REV. DATE:07/21/15

REV. NO. 04

GIRT TO JAMB
SINGLE JAMB

WS20F2

HEADER TO JAMB CLIP (PG1)

DOOR HEADER

SINGLE JAMB

(4) 1/2" A307 THIN HEAD BOLT (096636) & NUT (095032)

SECTION A-A

EQUAL 3" EQUAL

OPENING HEIGHT

REV. DATE:07/01/09

REV. NO. 00

HEADER TO JAMB
ANY HEADER, ANY SINGLE JAMB

WS20F9

DOOR HEADER CHANNEL (DHA-) @ 7" GIRT (DHC-) @ 8 1/2" GIRT (DHD-) @ 10" GIRT (DHE-) @ 11 1/2" GIRT

FULL WIDTH OF FRAMED OPENING

1/4"-14 x 1 1/4" STRUCT FSNR (55307) 12" O.C.

DOOR HEADER CHANNEL

OPENING HEIGHT

TEMPORARILY ATTACH DOOR HEADER CHANNEL W/ 1/4"-14 x 1 1/4" STRUCT FSNR (55307) 4'-0" O.C.

SECTION A-A

REV. DATE:07/01/09

REV. NO. 00

DOOR HEADER CHANNEL CONN.
ANY ZEE GIRT, ANY JAMB

WS21D7

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D

VP Buildings
3200 Players Club Circle Memphis TN 38125

REV	DATE	BY	DESCRIPTION
NTS			
1/31/2024 SEDSheet 16:48:10			

WALL SECONDARY SED'S

BUILDER
Lemartec Corporation

CUSTOMER
Duke Energy

LOCATION
Dunn, North Carolina

PROJECT
Duke Energy Dunn Operations Center - Weld Shop

BUILDERS POW#
23068 - Weld Shop

FILENAME:
Duke Energy - Weld Shop

VP BUILDINGS
VARCO PRUDEN
A BlueScope Steel Company

JOBN0
23-016000-01

DATE
01/31/2024

DRAWN/CHECK
MB WJC

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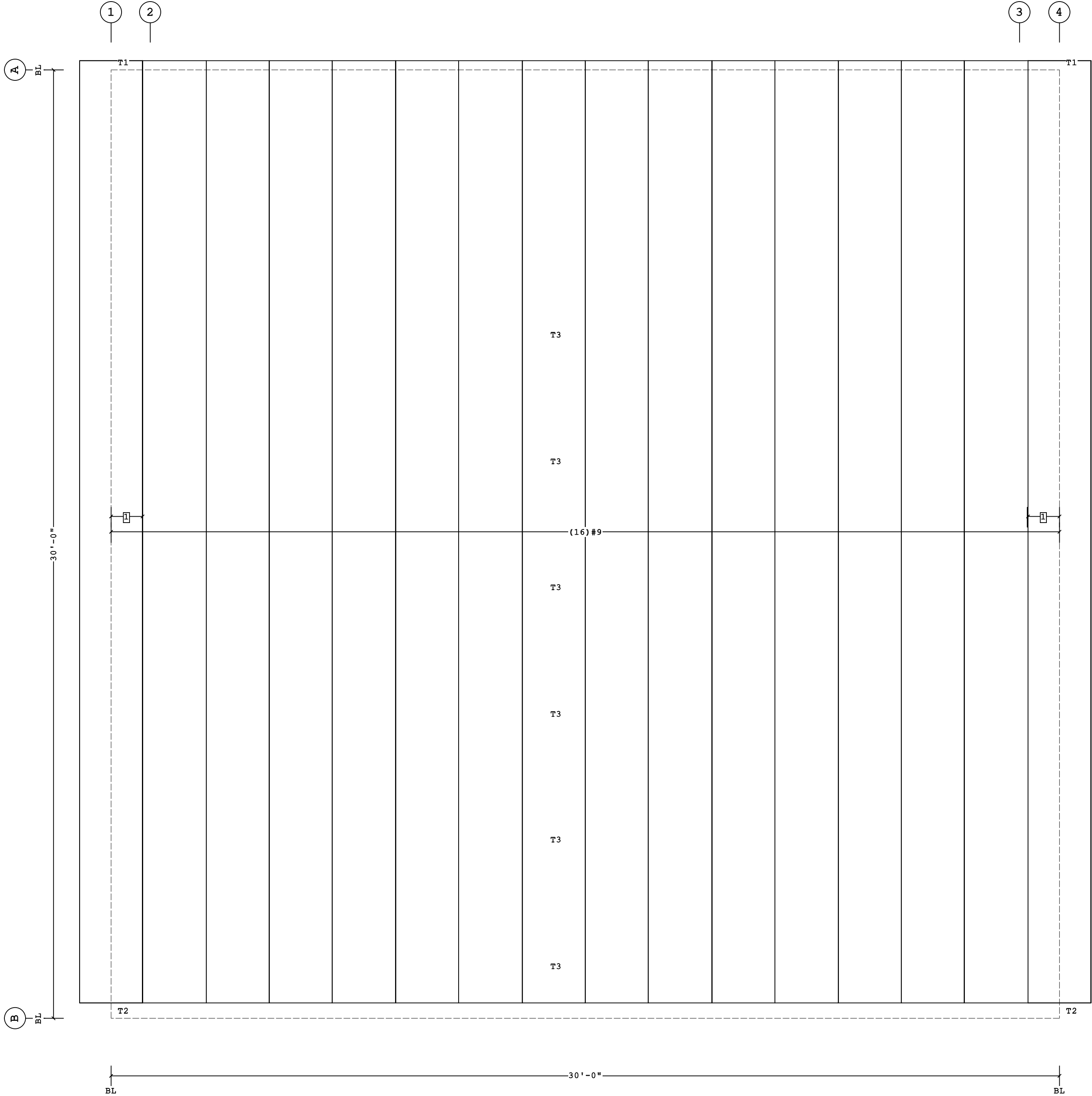
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Covering Schedule							Trim Schedule		Color	Details	Planograph Schedule	
Id	Qty	Length	Type	Gage	OP	Fin.	Color	Id	Parts		Id	Details
#9	16	29'-10 1/2"	SSR	24	2	G	TD	T1	BS1,FPRF1,GGC1,MCC1		T1	
Oper. Code:2=SQ,SQ								T2	MCC1		T2	
Finish:G=Galvalume								T3	(15)560778		T3	S-090028
Color:TD=Standard Color									Cool Zinc Gray	RC38N1		
									Cool Zinc Gray	RC38AJ		
									Not Applicable	EN01B2,EN52D1,ENV001,ENV011,RC00A1,RCV326		

Accessory Schedule			Description
Qty	Color		
1	Cool Arctic White		
2	Not Applicable		

Detail
ENV003
RA14A1,RA14B1,RA14D1



ROOF COVERING PLAN

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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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D

VP Buildings

3200 Players Club Circle Memphis TN 38125

REV	DATE	BY	DESCRIPTION
NTS			

BUILDER	Lemartec Corporation
CUSTOMER	Duke Energy
LOCATION	Dunn, North Carolina
PROJECT	Duke Energy Dunn Operations Center - Weld Shop
BUILDERS PO#	23068 - Weld Shop
VP VERSION:	2023.4a

VP BUILDINGS

VARCO PRUDEN

A BlueScope Steel Company

a division of BlueScope Buildings North America, Inc.

JOBNO

23-016000-01

DATE

01/31/2024

DRAWN/CHECK

MB WJC

PAGE

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1/31/2024

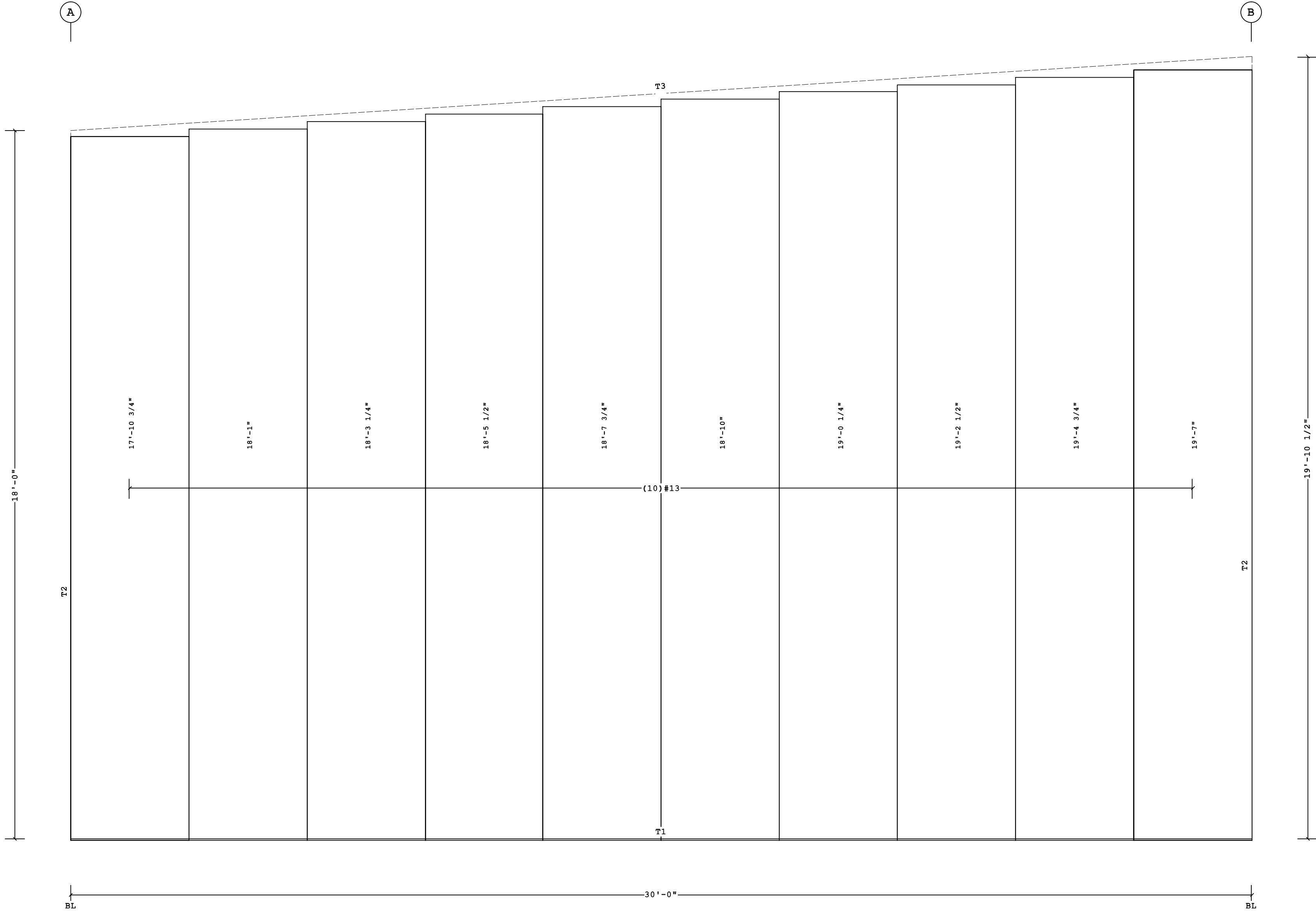
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FILENAME: Duke Energy - Weld Shop

Covering Schedule										
Id	Qty	Type	Start	Length	Gage	OP	Fin.	Color	Increment	Direction
#13	10	W	17'-10	3 4"	26	1	K	OW	2 1/4"	Left to Right
Oper. Code:l=SQ,SQ										
Finish:K=KXL (Kynar)										
Color:OW=Cool Cotton White										

Trim Schedule	
Id	Parts
T1	(2)BG2415, (3)BT10
T2	CT20
T3	(4)RFR10-130, (2)RKF16, (4)R8B10, (4)RSC10

Color	Details
Cool Cotton White	WSR06S,EN52A1,ENV003,RC00A1,WC01AB,WC04G1,WS27B2,WS27D2
Cool Cotton White	WC20A1
Cool Zinc Gray	RC10A2,RC30A1,RS10L5



Fastener Schedule	
Part	Description
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

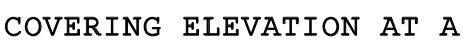
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<div>REV</div>		<div>DATE</div>		<div>BY</div>		<div>DESCRIPTION</div>		<div>BUILDER</div>		<div>Lemartec Corporation</div>		<div>JOBNO</div>		<div>23-016000-01</div>	
								<div>CUSTOMER</div>		<div>Duke Energy</div>		<div>DATE</div>		<div>01/31/2024</div>	
								<div>LOCATION</div>		<div>Dunn, North Carolina</div>		<div>DRAWN/CHECK</div>		<div>MB WJC</div>	
								<div>PROJECT</div>		<div>Duke Energy Dunn Operations Center - Weld Shop</div>		<div>PAGE</div>		<div>20</div>	
								<div>BUILDERS PO#</div>		<div>23068 - Weld Shop</div>		<div>VPC VERSION:</div>		<div>2023.4a</div>	
								<div>NTS</div>				<div>VP BUILDINGS</div>		<div>VARCO PRUDEN</div>	
												<div>A BlueScope Steel Company</div>			

Color	Details
Cool Cotton White	WSR065,EN52A1,ENV003,RC00A1,WC01AB,WC04G1,WS27B2,WS27D2
Cool Cotton White	WC20A1
Cool Zinc Gray	RC32A1,RC38E1,RC61A6,RCV324,RCV536,WC04G1,WC11F1
Cool Zinc Gray	RC38P1



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02/01/2024

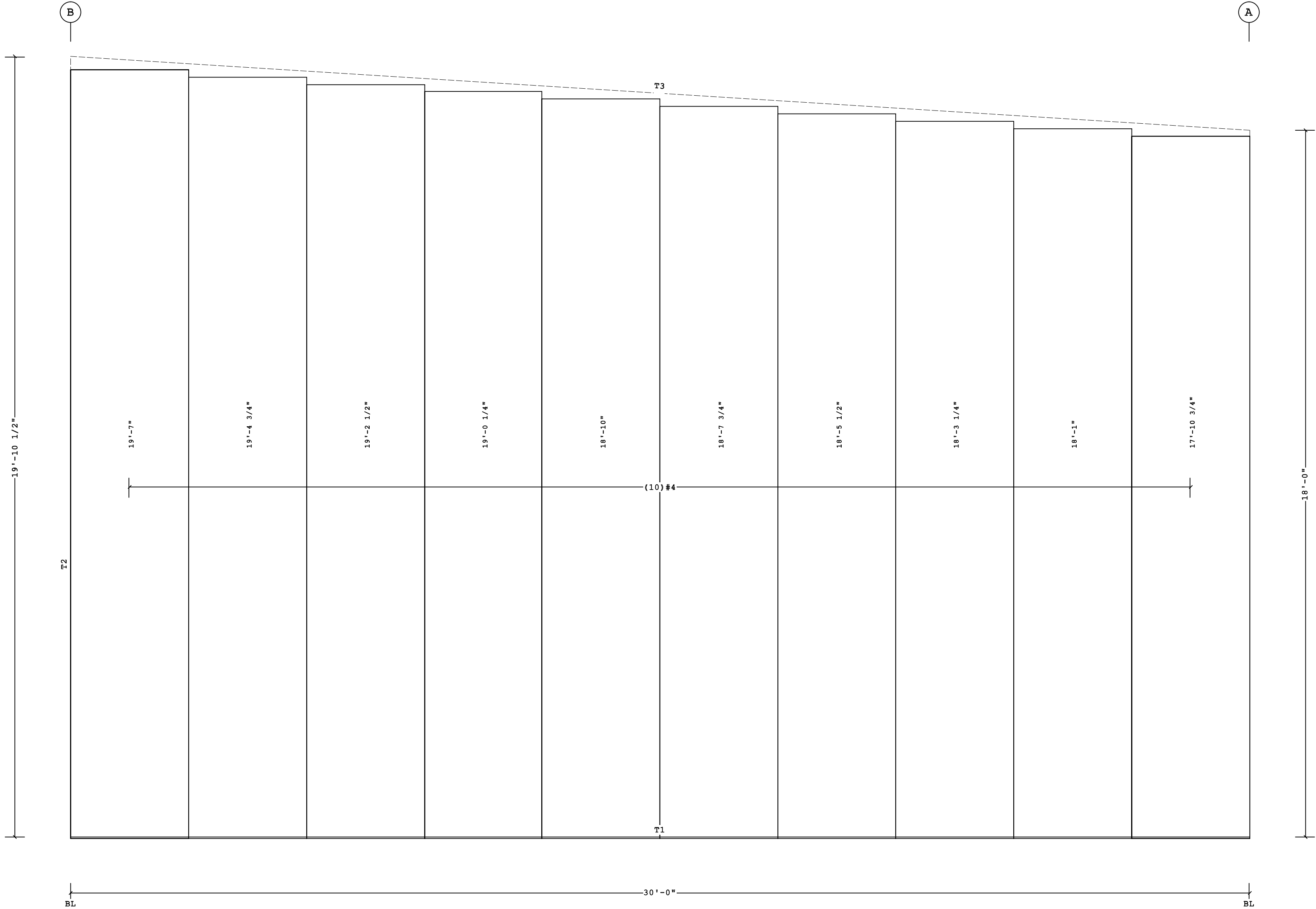
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				3200 Players Club Circle Memphis TN 38125									
				REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation		<div><div><div></div><div>VP BUILDINGS</div><div>VARICO PROUDEN</div></div><div>A BlueScope Steel Company VPC VERSION: 2023.4a</div></div>	JOBNO	23-016000-01
								CUSTOMER	Duke Energy			DATE	01/31/2024
								LOCATION	Dunn, North Carolina			DRAWN/CHECK	MB WJC
								PROJECT	Duke Energy Dunn Operations Center - Weld Shop			PAGE	21
NTS				BUILDERS POW	23068 - Weld Shop								

Covering Schedule										
Id	Qty	Type	Start	Length	Gage	OP	Fin.	Color	Increment	Direction
#4	10	W	19'-7"		26	1	K	OW	-2 1/4"	Left to Right
Oper. Code:l=SQ,SQ										
Finish:K=KXL (Kynar)										
Color:OW=Cool Cotton White										

Trim Schedule	
Id	Parts
T1	(2)BG2415, (3)BT10
T2	CT20
T3	(4)RFR10-130, (2)RKF16, (4)R8B10, (4)RSC10

Color	Details
Cool Cotton White	WSR06S,EN52A1,ENV003,RC00A1,WC01AB,WC04G1,WS27B2,WS27D2
Cool Cotton White	WC20A1
Cool Zinc Gray	RC10A2,RC30A1,RS10L5



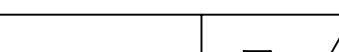
COVERING ELEVATION AT 4

Fastener Schedule	
Part	Description
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

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			REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation		 VP BUILDINGS VARCO PRUDEN A BlueScope Steel Company VPC VERSION: 2023.4a	JOBNO 23-016000-01
							CUSTOMER	Duke Energy			DATE 01/31/2024
							LOCATION	Dunn, North Carolina			DRAWN/CHECK MB WJC
							PROJECT	Duke Energy Dunn Operations Center - Weld Shop			PAGE 22
							NTS		BUILDERS PO# 23068 - Weld Shop		
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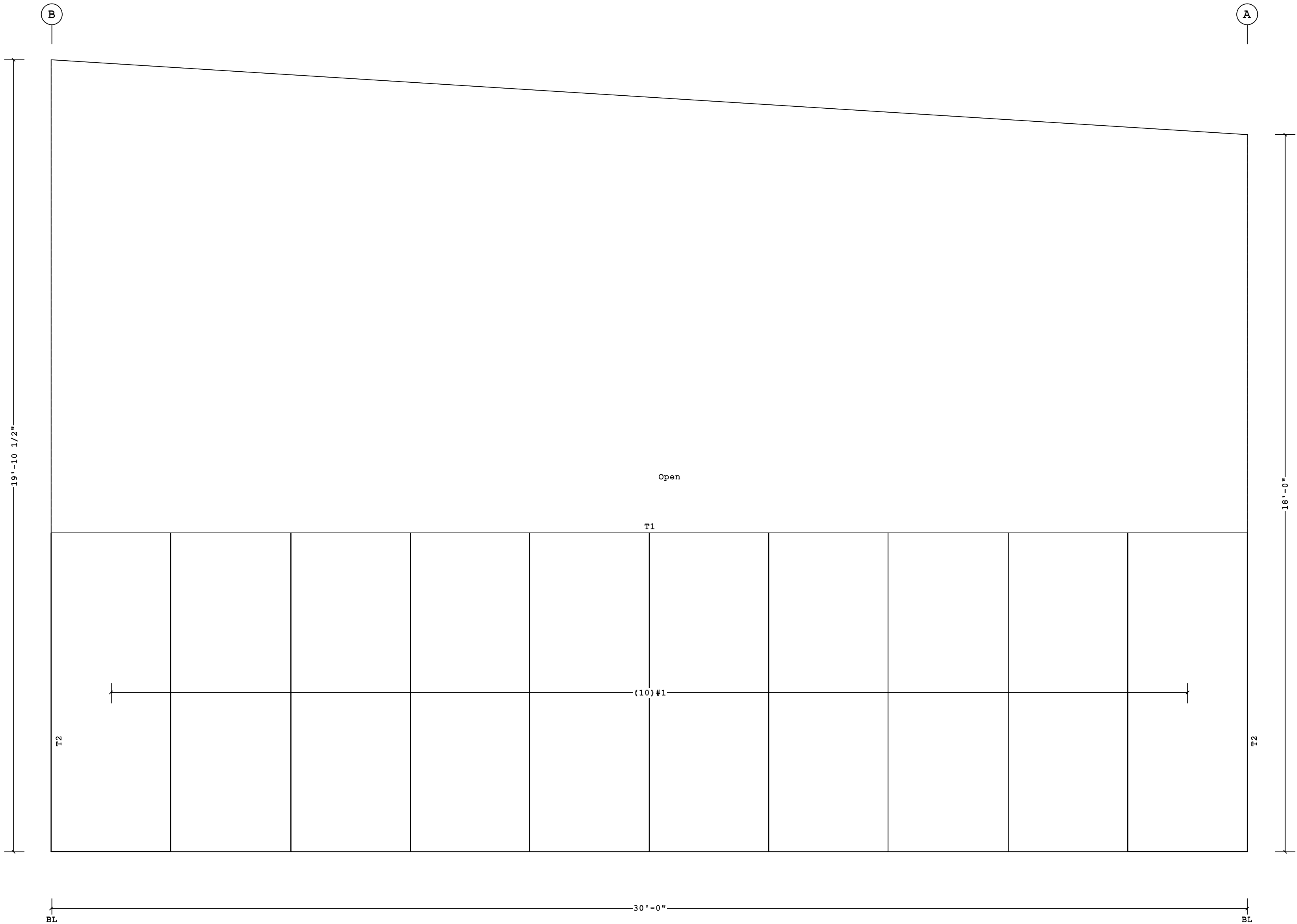


a division of BlueScope Buildings North America, Inc.

Wall Liner Schedule
Id Qty Type Length
#1 10 DLN 8'-0"
Gage OP Finish Color Direction
26 1 K OW Left to Right
Oper. Code:l=SQ,SQ
Finish:K=KXL (Kynar)
Color:OW=Cool Cotton White

Trim Schedule
Id Parts
T1 (3)LPJT
T2 (2)LPJT

Color
Match Wall Color
Match Wall Color
Details
WCV062,WLV013
WCV062,WLV014,WLV015



WALL LINER ELEVATION AT 1
(View from inside Building)

Fastener Schedule	
Part	Description
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

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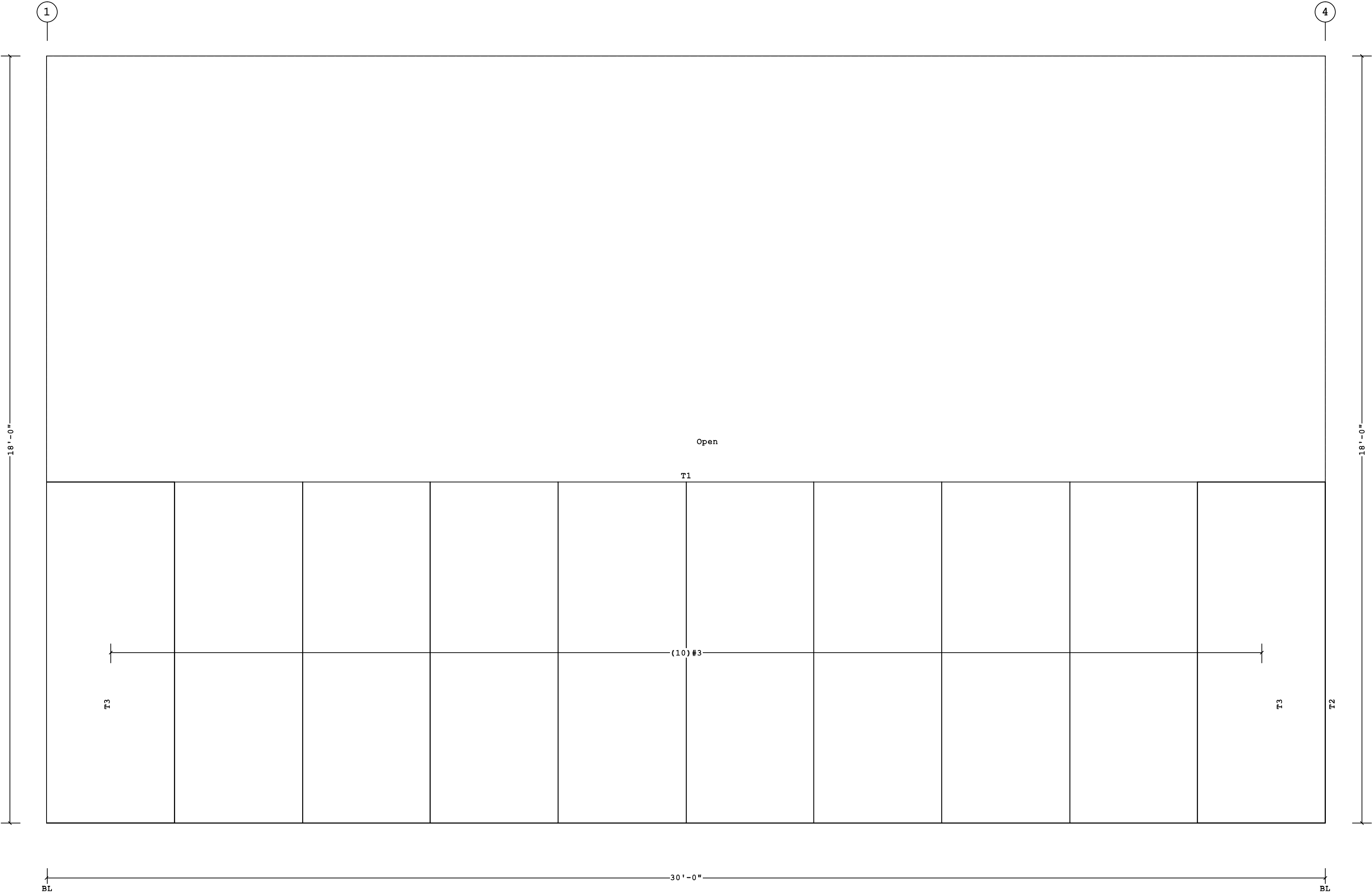
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REV		DATE		BY	DESCRIPTION			BUILDER		Lemartec Corporation		<div><div><div></div></div><div>VP BUILDINGS</div><div>VARCO PRUDEN</div><div>A BlueScope Steel Company</div><div>VPC VERSION: 2023.4a</div></div>		JOBNO		23-016000-01			
								CUSTOMER		Duke Energy				DATE		01/31/2024			
								LOCATION		Dunn, North Carolina				DRAWN/CHECK		MB WJC			
								PROJECT		Duke Energy Dunn Operations Center - Weld Shop				PAGE		24			
					NTS					BUILDERS PO#		23068 - Weld Shop		FILENAME: Duke Energy - Weld Shop					
					1/31/2024							16:48:19		a division of BlueScope Buildings North America, Inc.					

Wall Liner Schedule
Id Qty Type Length
#3 10 DLN 8'-0"
Gage OP Finish Color Direction
26 1 K OW Left to Right
Oper. Code:l=SQ,SQ
Finish:K=KXL (Kynar)
Color:OW=Cool Cotton White

Trim Schedule
Id Parts
T1 (3)LPJT
T2 (2)LPJT
T3 (2)LPJT

Color
Match Wall Color
Match Wall Color
Match Wall Color
Details
WCV062,WLV013
WCV062,WLV014,WLV015
WLV015



WALL LINER ELEVATION AT A
(View from inside Building)

Fastener Schedule	
Part	Description
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

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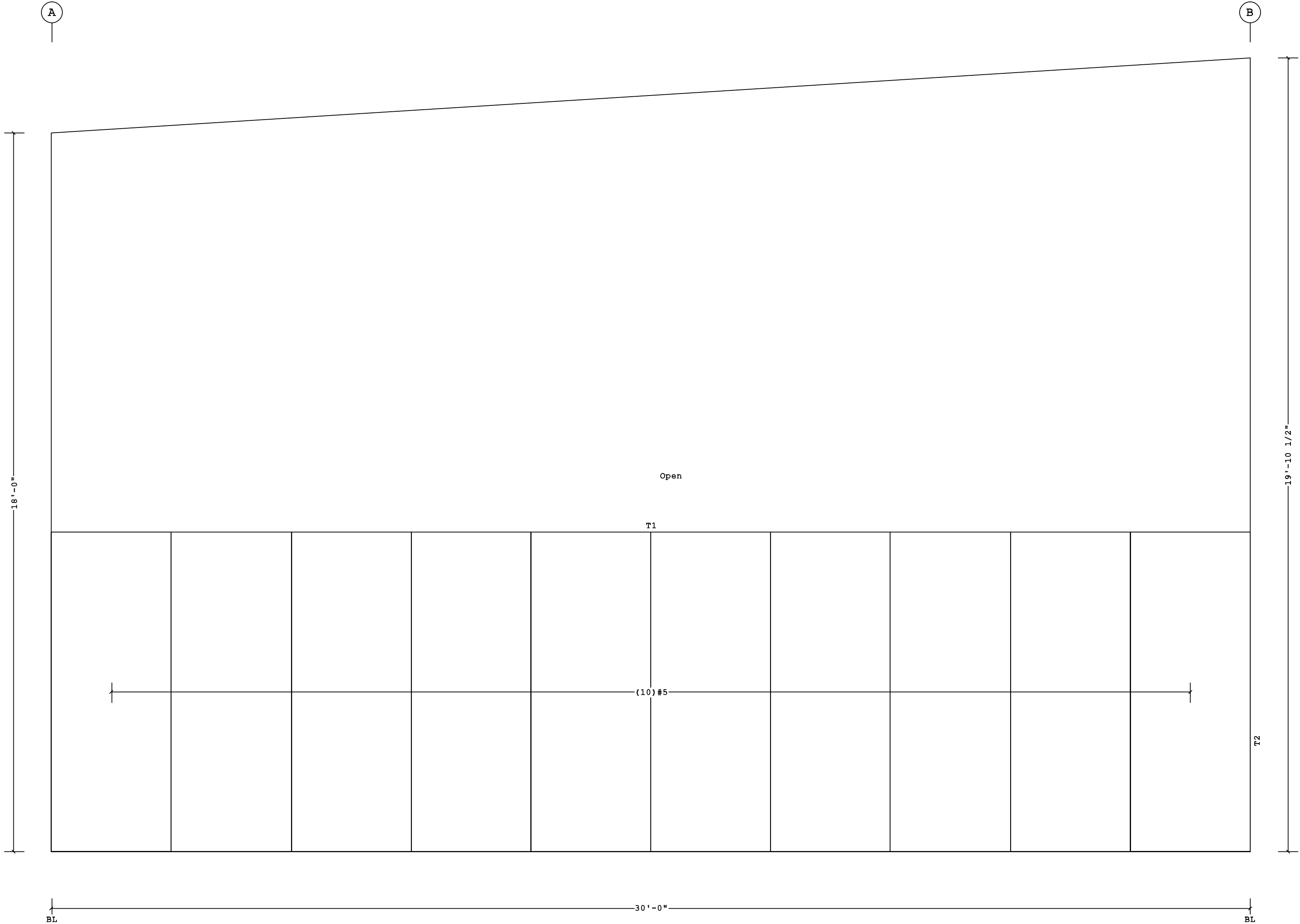
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				3200 Players Club Circle Memphis TN 38125							
				REV	DATE	BY	DESCRIPTION		BUILDER	Lemartec Corporation	
									CUSTOMER	Duke Energy	
									LOCATION	Dunn, North Carolina	
									PROJECT	Duke Energy Dunn Operations Center - Weld Shop	
			NTS		BUILDERS PO#	23068 - Weld Shop		<div><div><div></div><div>VP BUILDINGS</div><div>VARCO PRUDEN</div></div><div>A BlueScope Steel Company</div><div>VPC VERSION: 2023.4a</div></div>	JOBNO	23-016000-01	
							DATE		01/31/2024		
							DRAWN/CHECK		MB WJC		
							PAGE		25		

Wall Liner Schedule
Id Qty Type Length
#5 10 DLN 8'-0"
Gage OP Finish Color Direction
26 1 K OW Left to Right
Oper. Code:l=SQ,SQ
Finish:K=KXL (Kynar)
Color:OW=Cool Cotton White

Trim Schedule
Id Parts
T1 (3)LPJT
T2 (2)LPJT

Color
Match Wall Color
Match Wall Color
Details
WCV062,WLV013
WCV062,WLV014,WLV015



Fastener Schedule
Part Description
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

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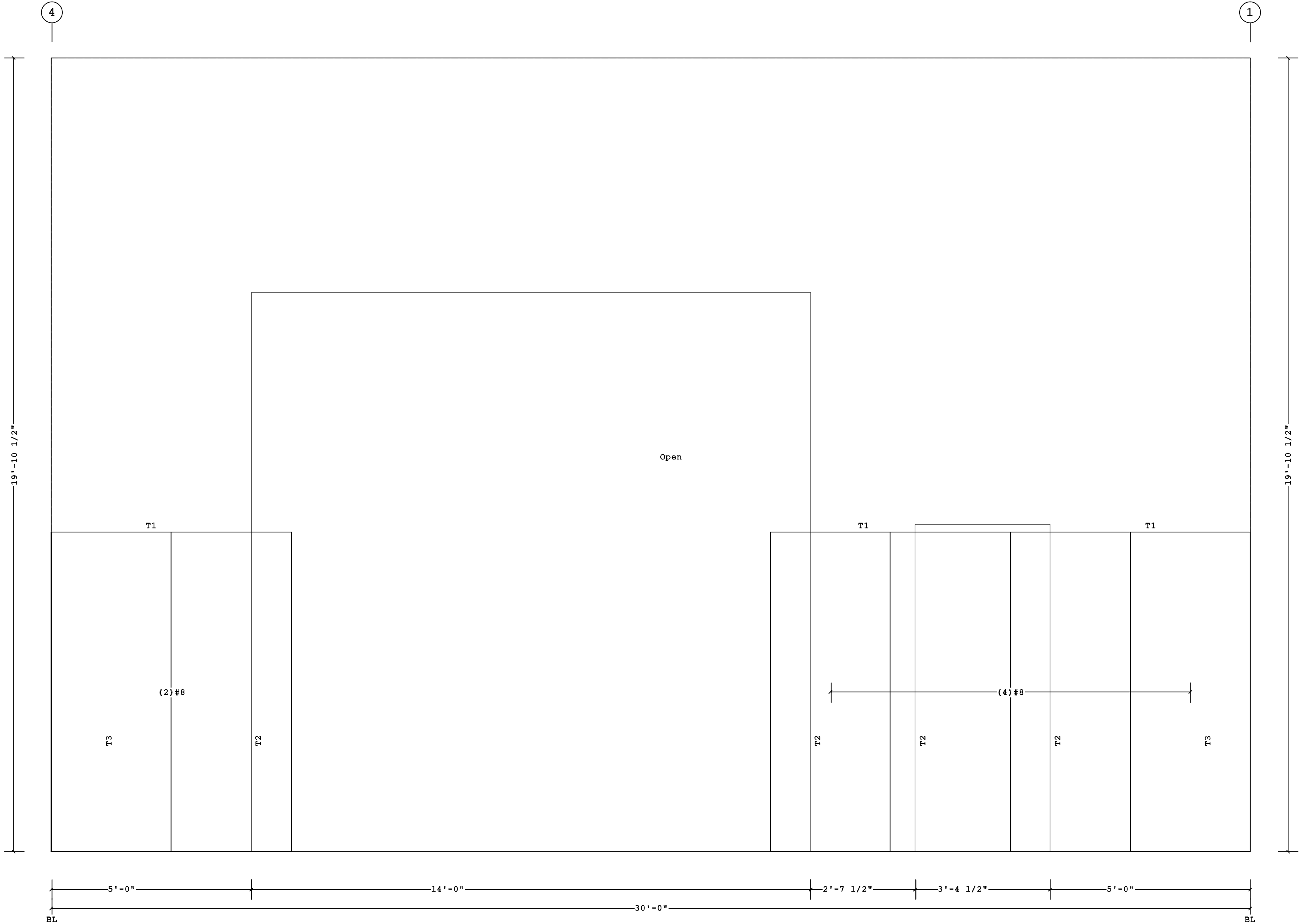
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								REVDATEBYDESCRIPTION		BUILDERLemartec Corporation	
										CUSTOMERDuke Energy	
										LOCATIONDunn, North Carolina	
										PROJECTDuke Energy Dunn Operations Center - Weld Shop	
										BUILDERS PO#23068 - Weld Shop	
								NTS		VPC VERSION: 2023.4a	
								1/31/2024		16:48:22	
										FILENAME: Duke Energy - Weld Shop	
										JOBNO23-016000-01	
										DATE01/31/2024	
										DRAWN/CHECKMBWJC	
										PAGE26	

Wall Liner Schedule
Id Qty Type Length
#8 6 DLN 8'-0"
Gage OP Finish Color Direction
26 1 K OW Left to Right
Oper. Code:l=SQ,SQ
Finish:K=KXL (Kynar)
Color:OW=Cool Cotton White

Trim Schedule
Id Parts
T1 LPJT
T2 (0.7)LPJT
T3 (2)LPJT

Color
Match Wall Color WCV062,WLV013
Match Wall Color WCV062,WLV007
Match Wall Color WLV015

Details
WCV062,WLV013
WCV062,WLV007
WLV015



WALL LINER ELEVATION AT B
(View from inside Building)

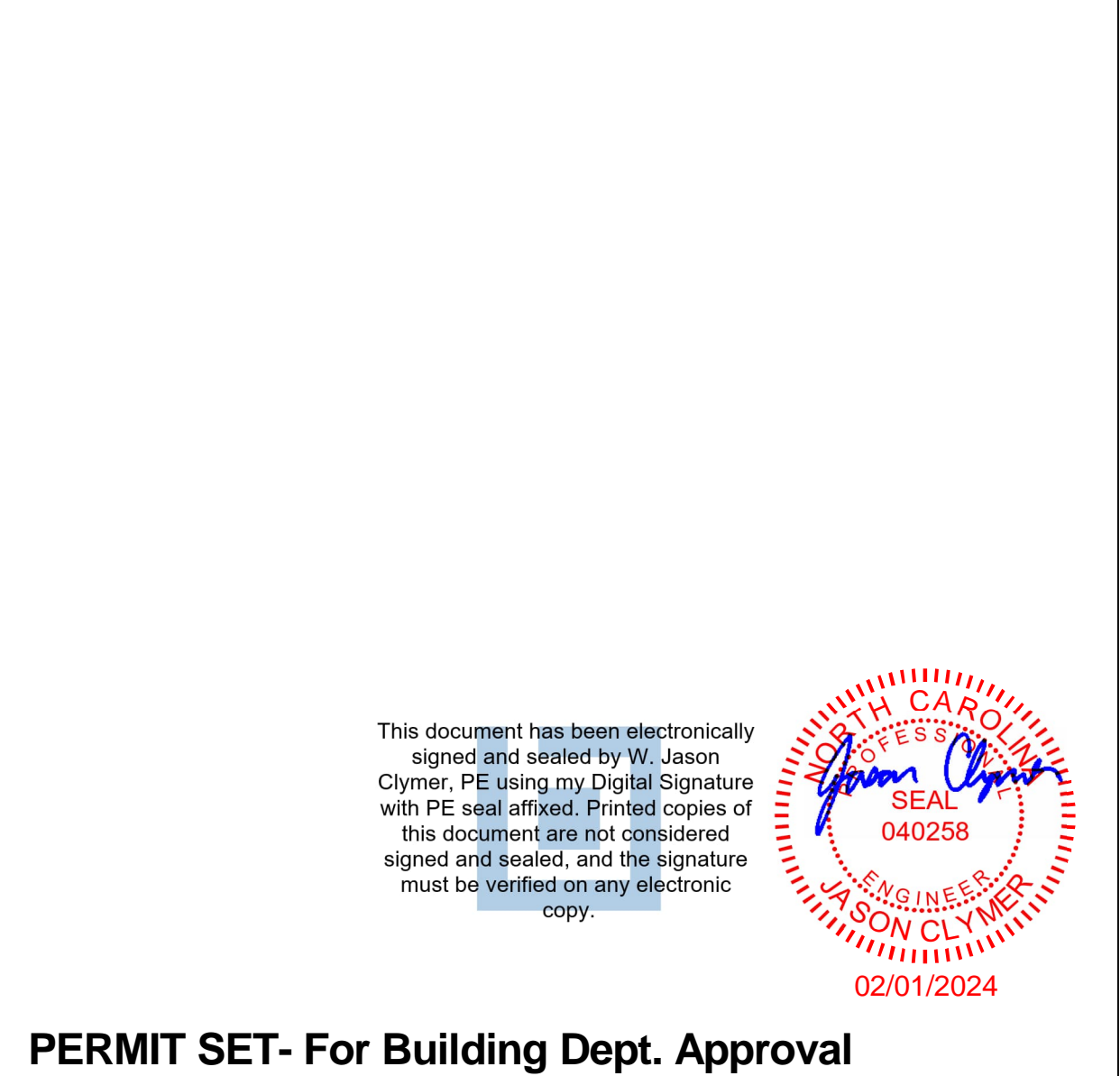
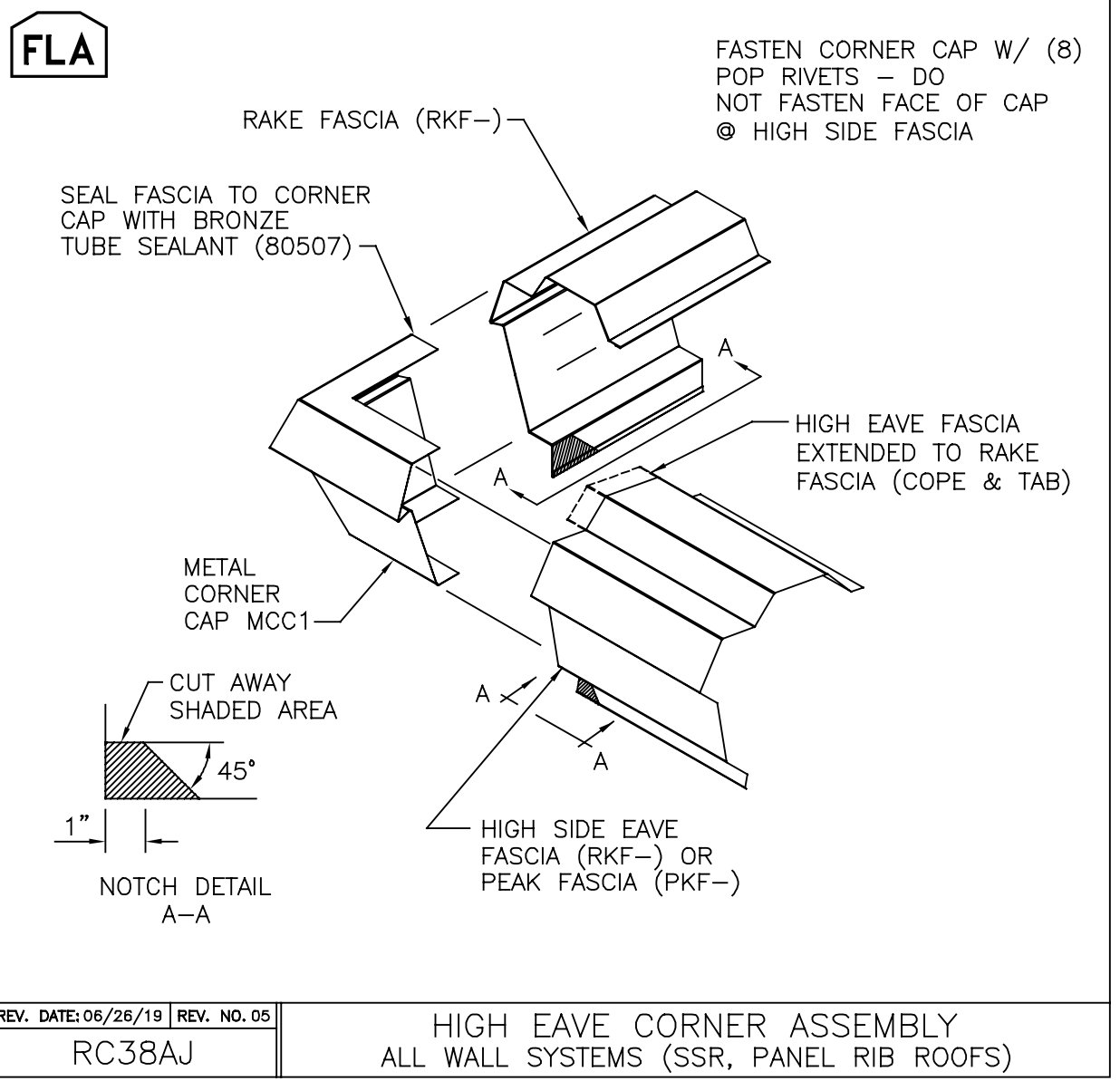
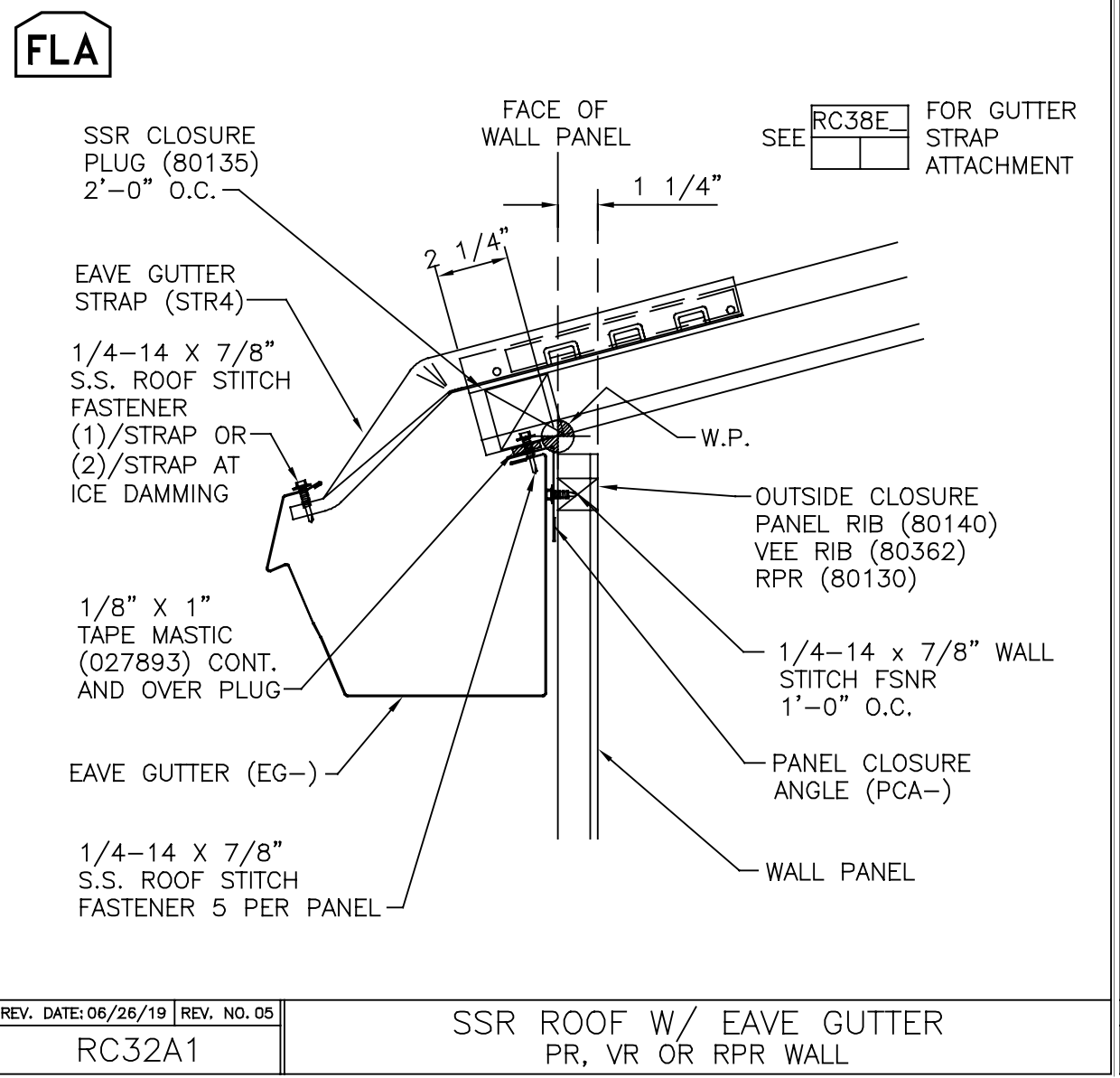
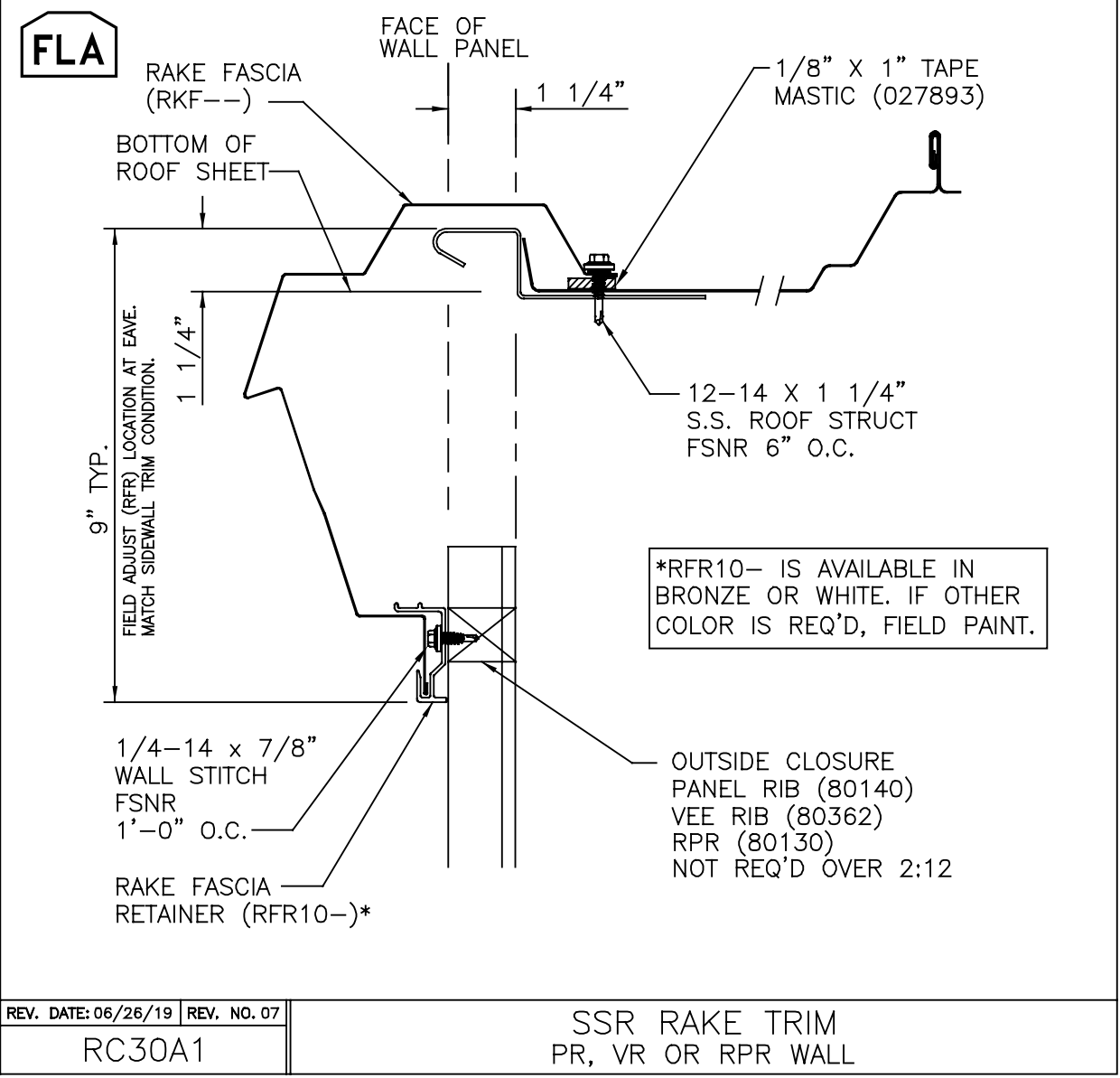
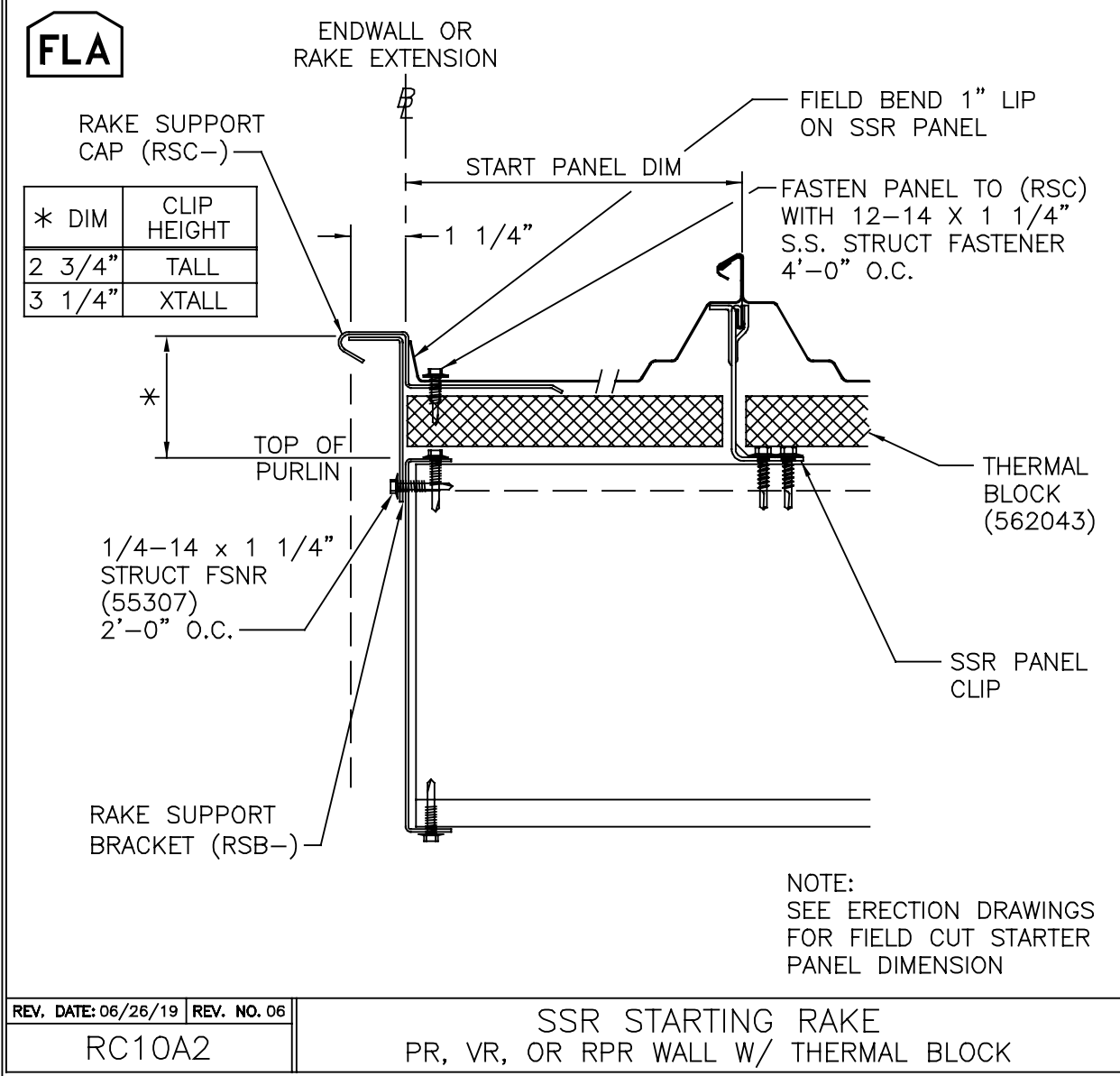
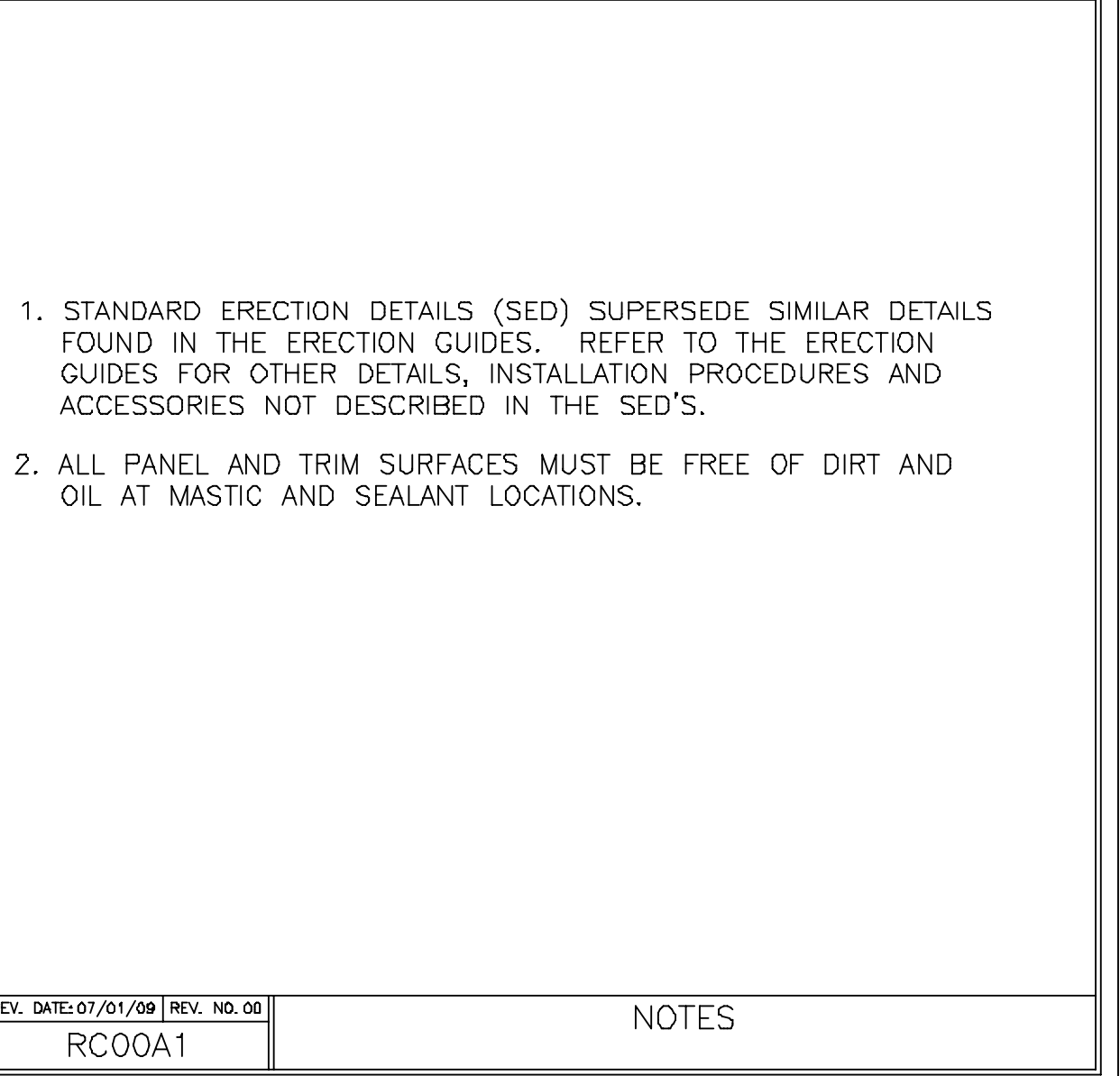
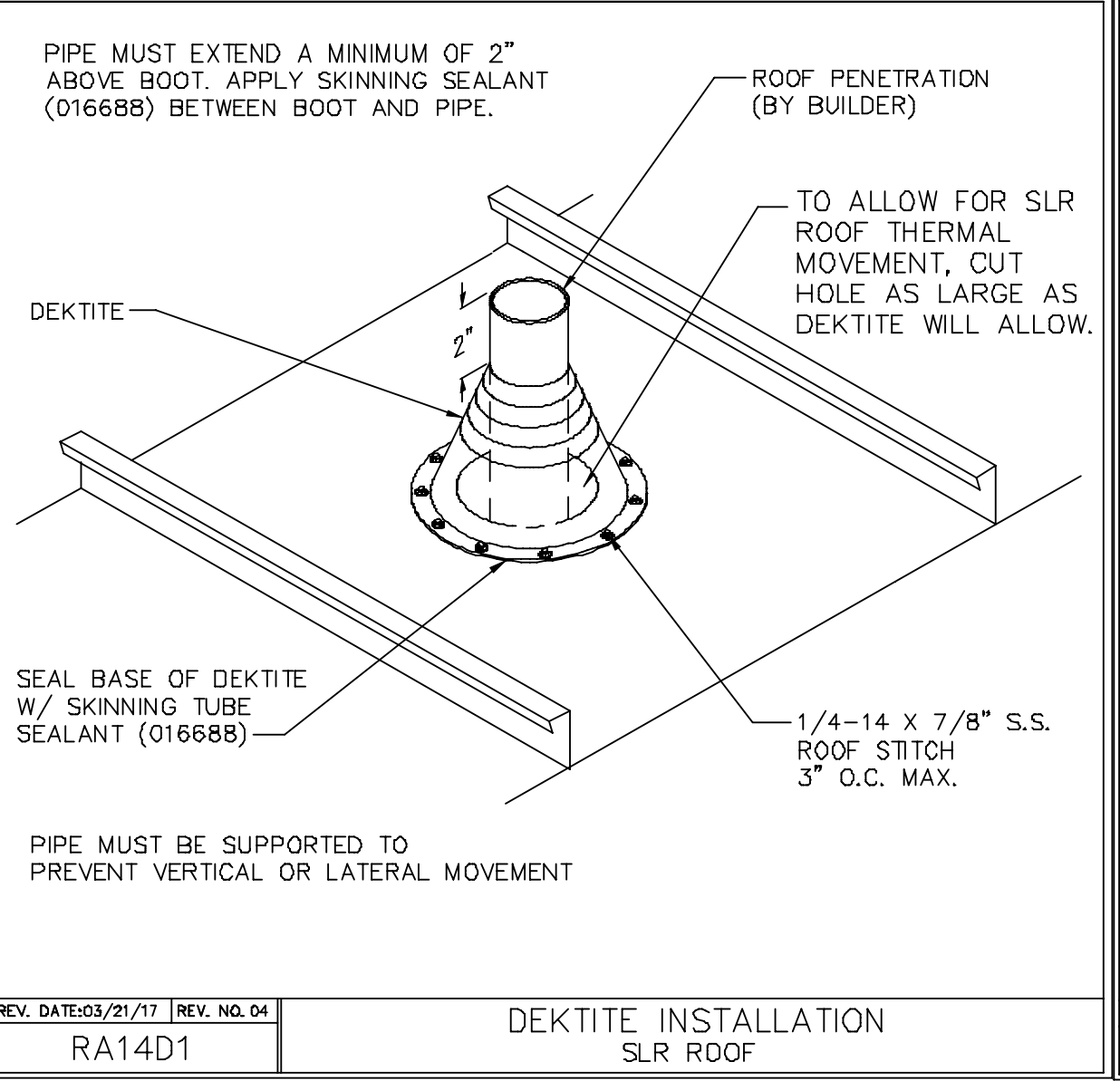
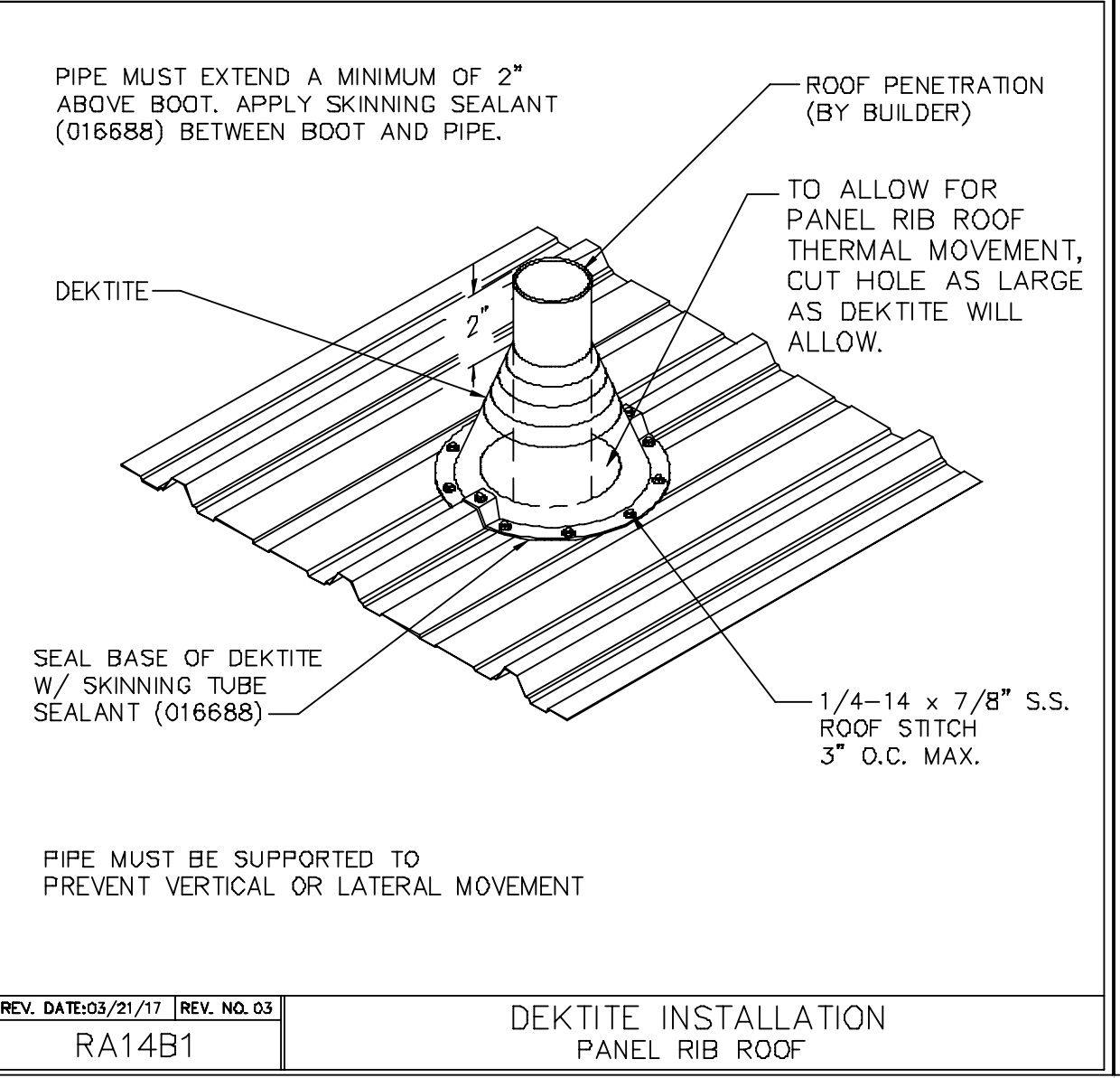
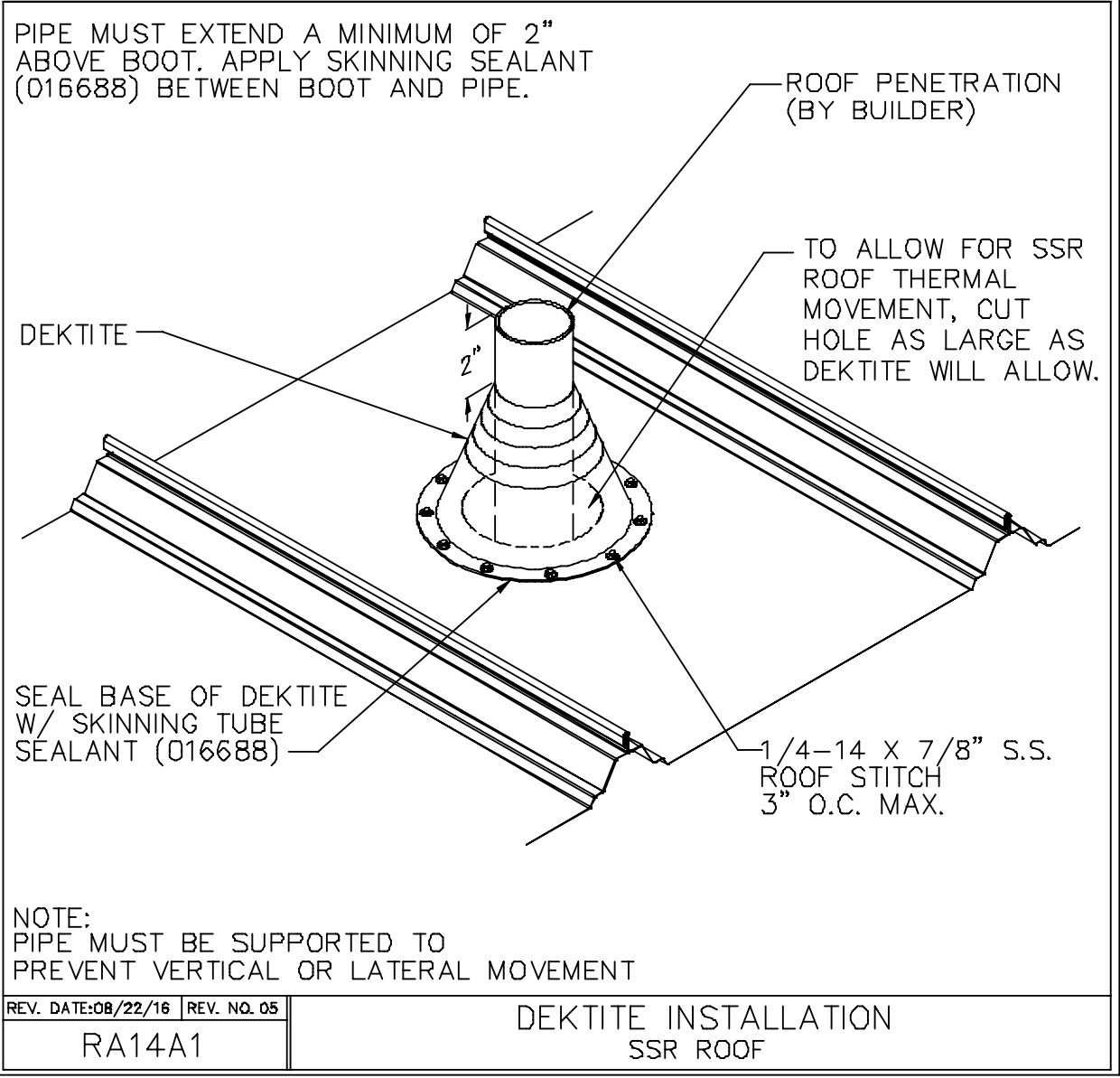
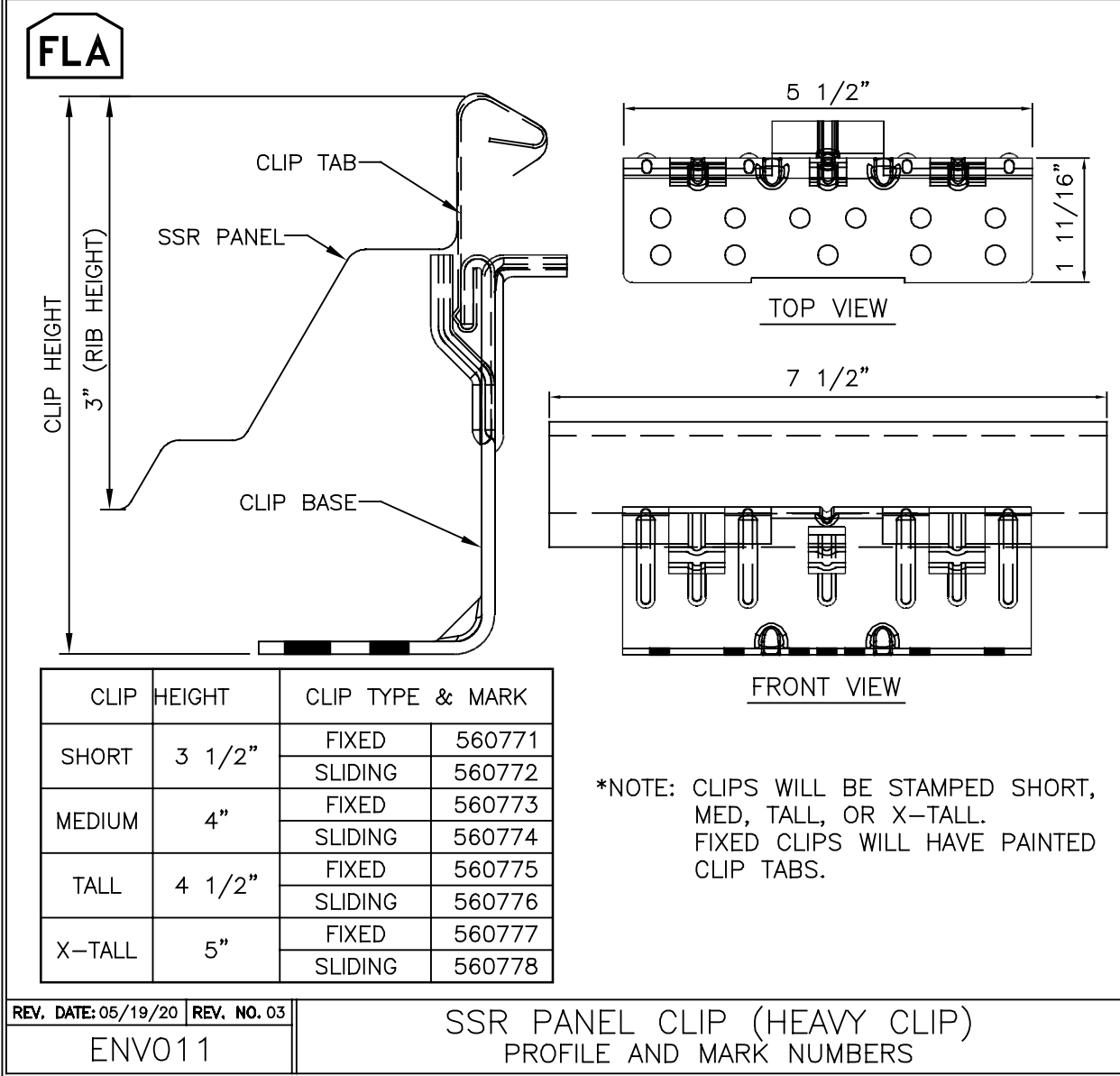
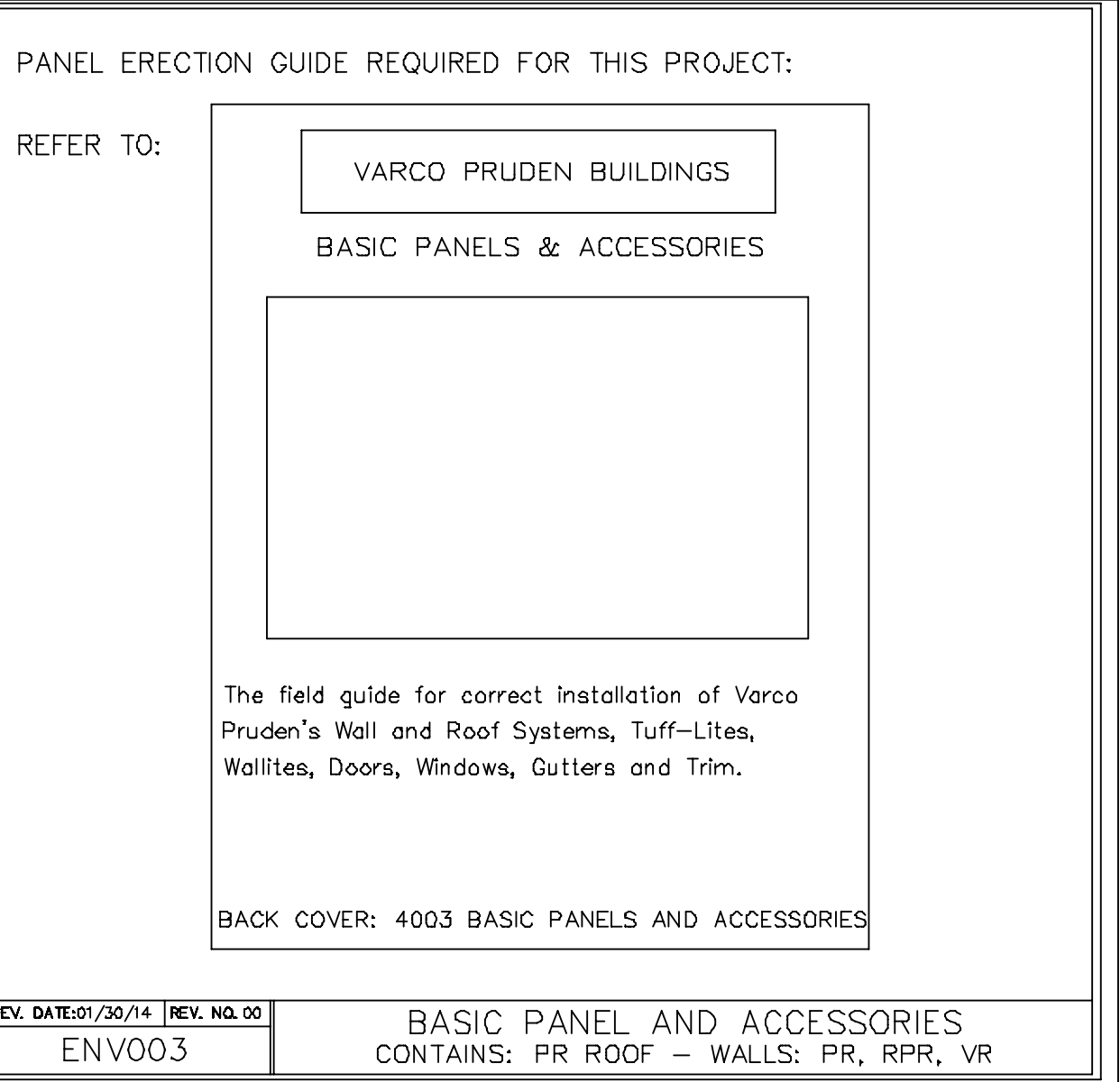
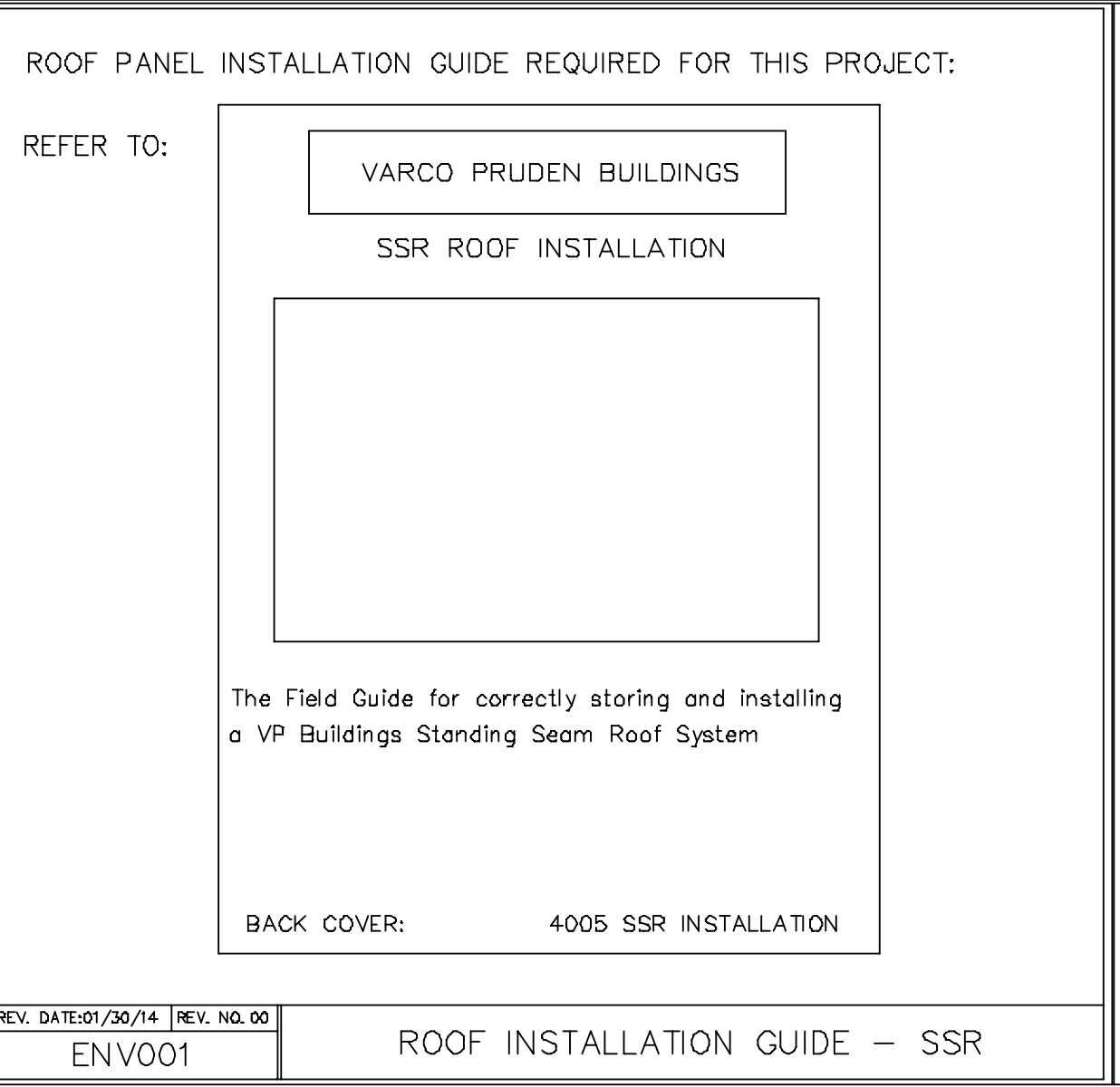
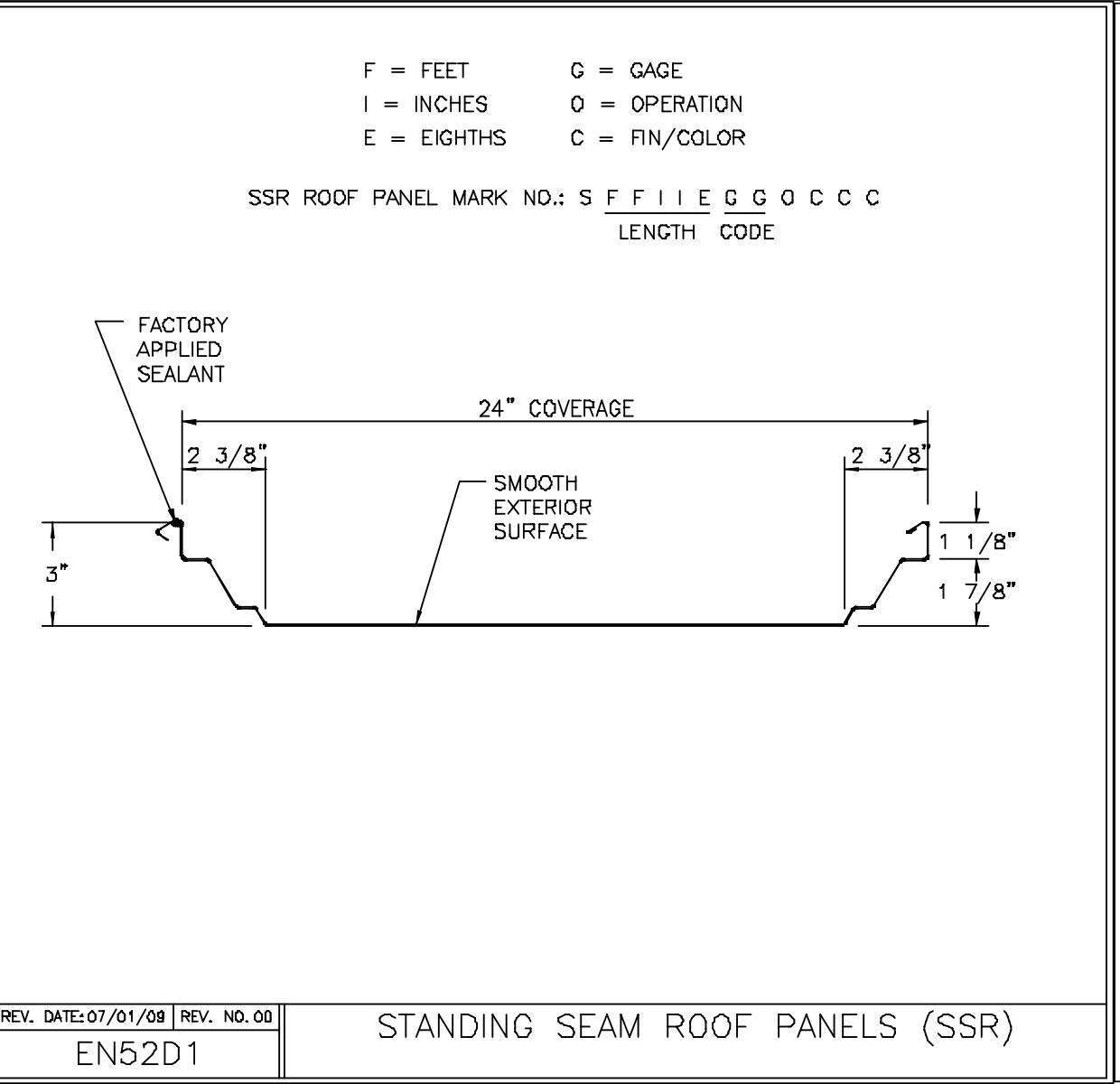
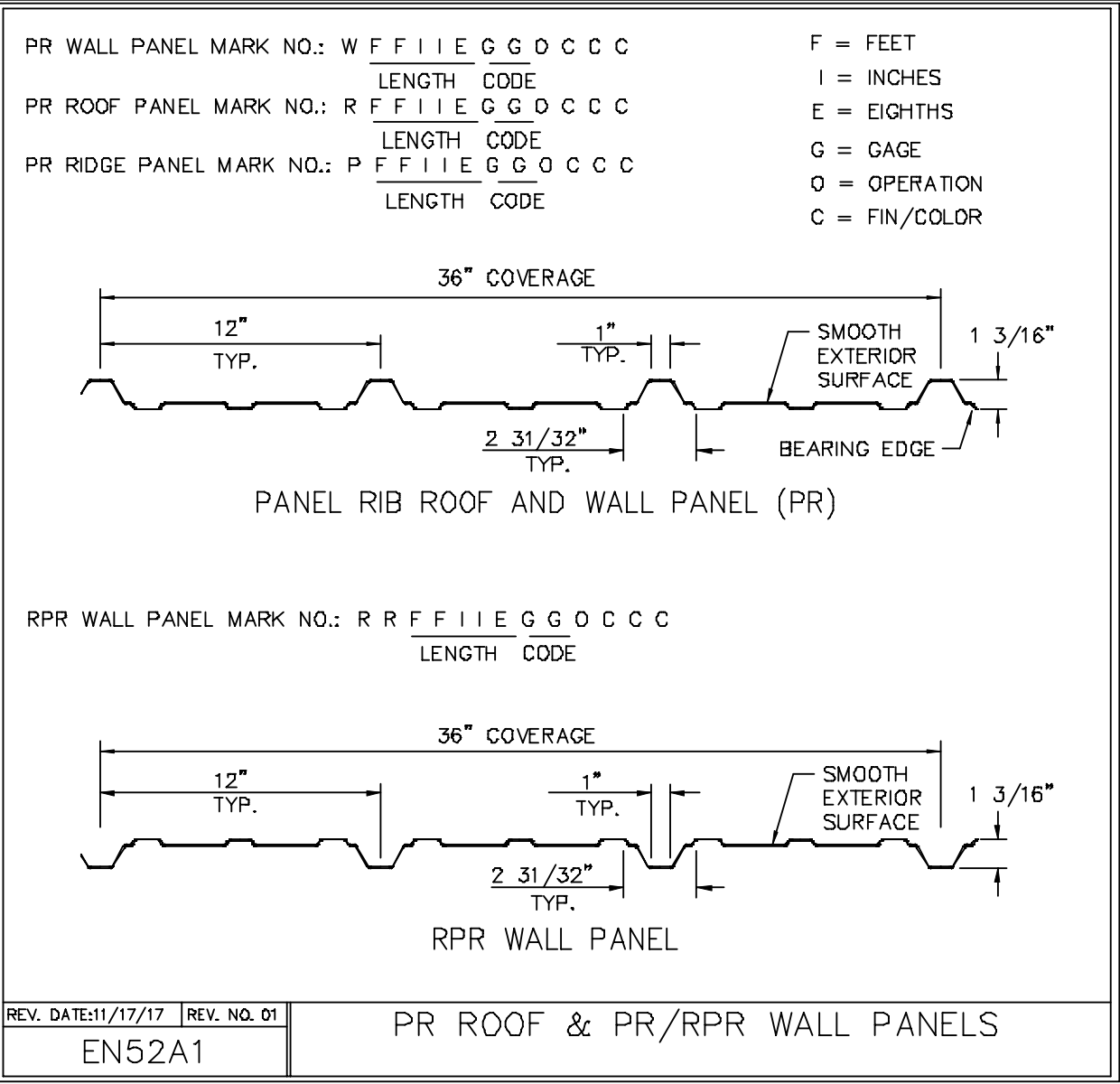
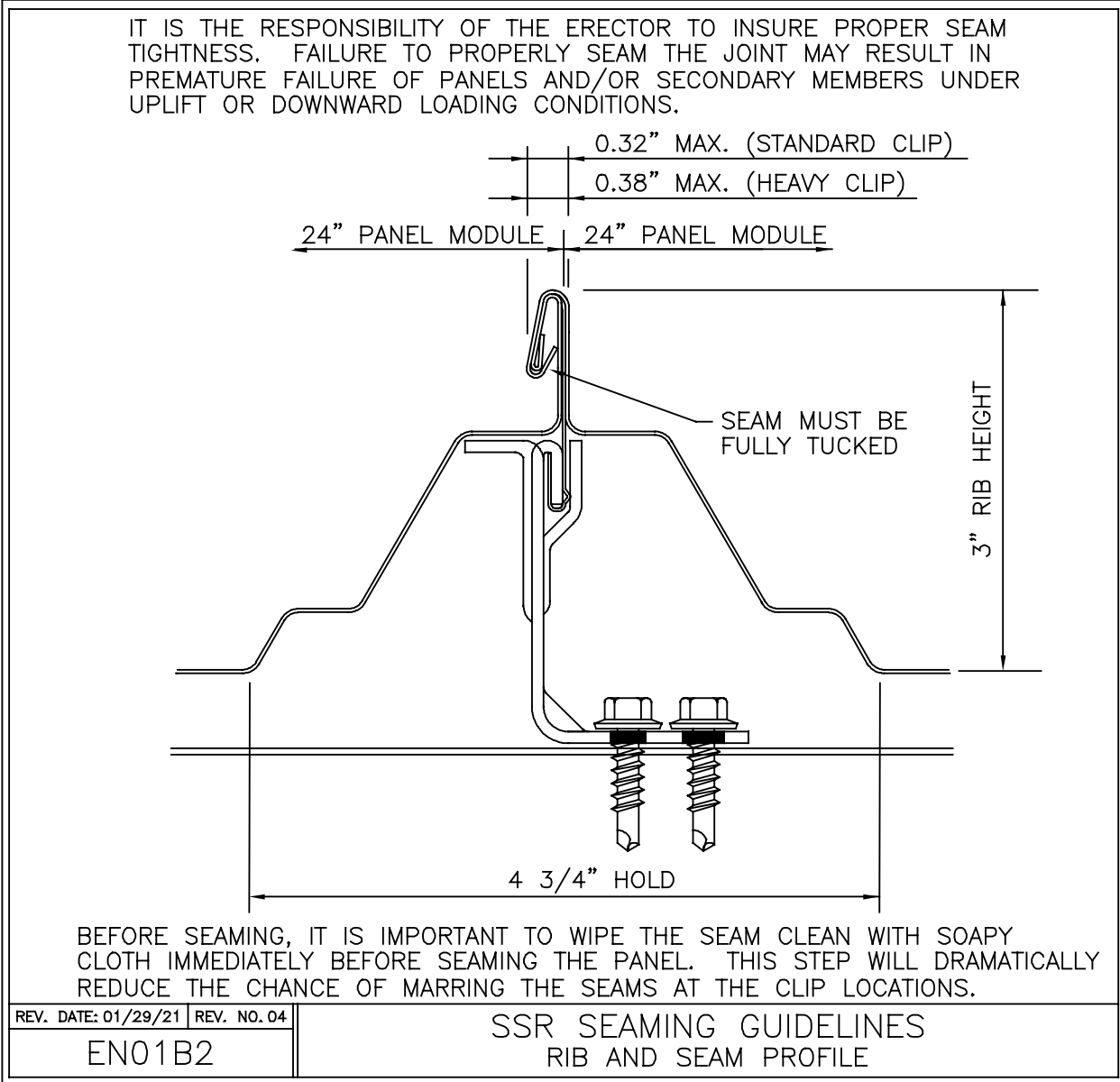
Fastener Schedule	
Part	Description
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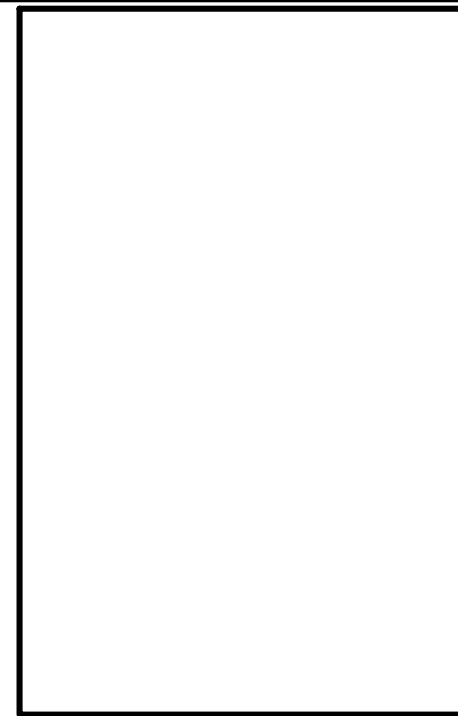
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			REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation		 VARCO PRUDEN A BlueScope Steel Company VPC VERSION: 2023.4a	JOBNO
							CUSTOMER	Duke Energy			DATE
							LOCATION	Dunn, North Carolina			01/31/2024
							PROJECT	Duke Energy Dunn Operations Center - Weld Shop			DRAWN/CHECK
							BUILDERS PO#		23068 - Weld Shop		MB
			NTS				PAGE		27		



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 & TRIM SED'S (a)	
REV	DATE	BY	DESCRIPTION	BUILDER	Lemartec Corporation		CUSTOMER	Duke Energy	
				LOCATION	Dunn, North Carolina		PROJECT	Duke Energy Dunn Operations Center - Weld Shop	
				BUILDERS PS#	23068 - Weld Shop		FILENAME:	Duke Energy - Weld Shop	
NTS				1/31/2024 SEDSheet		16:48:23		a division of BlueScope Buildings North America, Inc.	

SEAL:



REVISIONS

PROGRESS REVIEW #1:	9-13-24
PROGRESS REVIEW #2:	
PROGRESS REVIEW #3:	
ISSUE FOR CONST.:	9-18-24
REVISION #1:	
REVISION #2:	
REVISION #3:	
REVISION #4:	

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DUKE ENERGY
NEW WELD SHOP
1269 JONESBORO RD
DUNN, NORTH CAROLINA

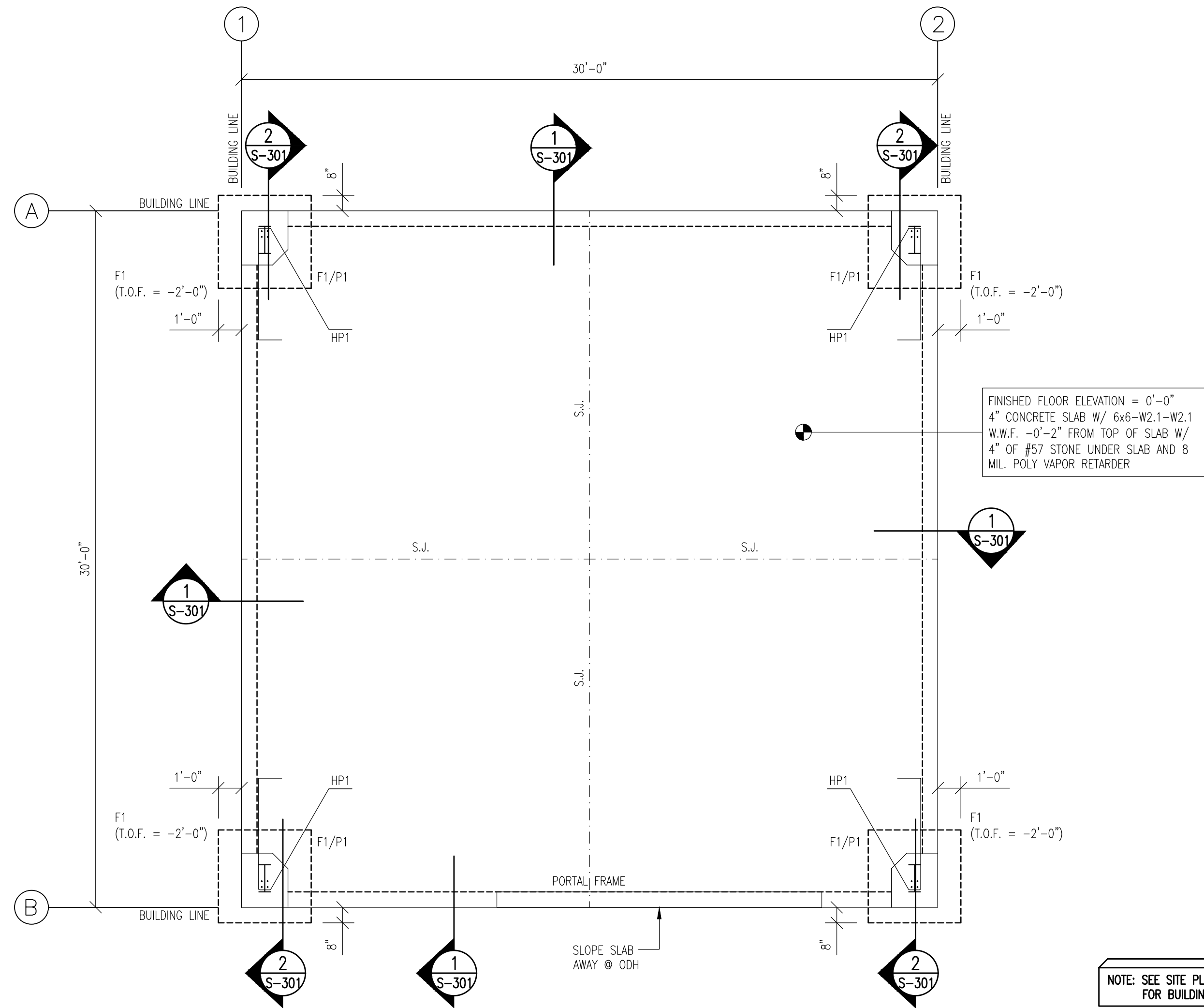
PROJECT NAME:

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

FOUNDATION PLAN

MEPC PROJECT NO.:	115-24
DATE:	9-18-24
DESIGN BY:	JWM/PCC
DRAWN BY:	JBL
CHECKED BY:	JWM

S-101



WELD SHOP FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

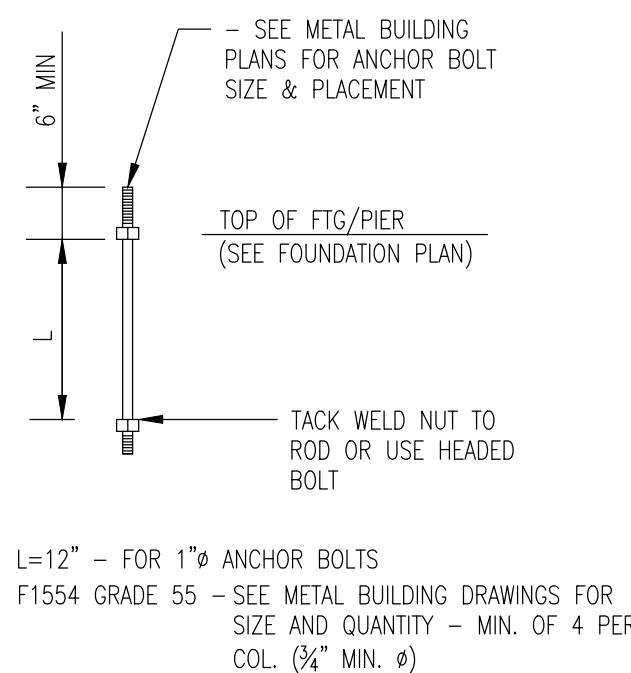
FOUNDATION SCHEDULE

MARK	SIZE	REINFORCEMENT
F1	4'-0"x4'-0"x1'-0"	5-#5 BARS E.W.

f'c = 3500psi

GENERAL NOTES -- WELD SHOP FOUNDATION PLAN:

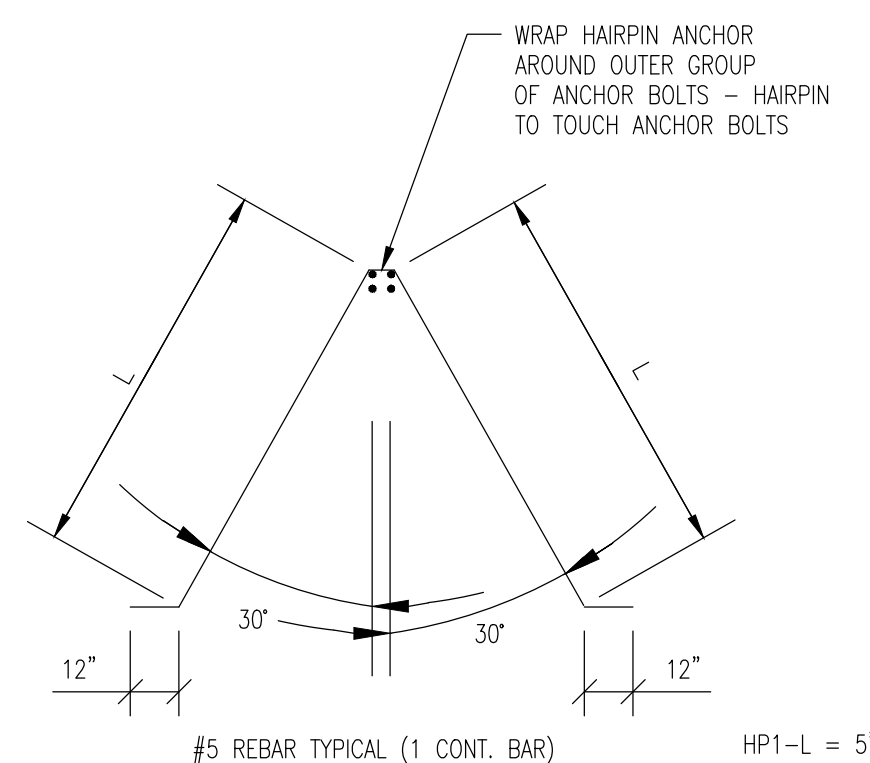
- SEE PLAN FOR T.O.F. ELEVATIONS. MAINTAIN A 12" MINIMUM OF COVER OVER PERIMETER WALL T.O.F.'s TYPICAL. GC SHALL COORDINATE T.O.F. ELEVATIONS W/ SITE PLAN TO DETERMINE IF ADEQUATE FOOTING DEPTH WILL NEED TO BE PROVIDED.
- COORDINATE FLOOR DRAINS AND ANY SLOPED FLOOR AREA REQUIREMENTS WITH THE PLUMBING DRAWINGS.
- GC SHALL COORDINATE WITH THE PLUMBING CONTRACTOR FOR ANY STEP DOWNS IN THE T.O.F.'s IF REQUIRED TO ALLOW PLUMBING TO EXIT THE BUILDING.
- GC SHOULD AVOID LEAVING OPEN TRENCH EXCAVATIONS FOR THE FOOTINGS FOR LONG PERIODS WHEN INCLEMENT WEATHER IS ANTICIPATED. IN GENERAL ALL EXCAVATIONS MADE SHOULD BE POURED ON THE DAY OF THE EXCAVATION IF INCLEMENT WEATHER IS EXPECTED.
- CONTRACTOR SHALL COORDINATE FOR LOCAL INSPECTING AUTHORITY TO REVIEW AND APPROVE ALL FOOTING TRENCHES PRIOR TO THE PLACEMENT OF ANY FOOTING CONCRETE. IF FOOTINGS FAIL INSPECTION CONTRACTOR SHALL CONTACT THE ENGINEER FOR RECOMMENDATIONS.
- FOUNDATION DESIGN BASED ON A PRESUMPTIVE SOIL BEARING PRESSURE OF 2000 PSF. GC SHALL HAVE SOIL TESTING FIRM TO VERIFY PRESUMPTIVE BEARING PRESSURE PRIOR TO PLACEMENT OF THE CONCRETE FOOTINGS. ANY AREAS DETERMINED NOT TO PROVIDE THIS STATED SOIL BEARING PRESSURE SHALL BE BROUGHT TO THE ENGINEERS ATTENTION.
- FOUNDATION DESIGN BASED ON VARCO PRUDEN PRE-ENGINEERED METAL BUILDING DRAWINGS DATED 2-1-2024. IF REVISIONS ARE MADE TO THE REFERENCED PRE-ENGINEERED METAL BUILDING DRAWINGS, CONTACT ENGINEER FOR FOUNDATION DESIGN REVIEW.



SECTION NO.
TYPICAL

ANCHOR BOLT DETAIL

SCALE
NO SCALE



SECTION NO.
TYPICAL

HAIRPIN ANCHOR

SCALE
NO SCALE

1	2	3	4	5	6	7	8	9
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H

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[illegible]

H

G

F








E

D

C

B

A

LIGHTING FIXTURE SCHEDULE										
FIXTURE TYPE	MANUFACTURER AND CATALOG INFORMATION	LAMPS			DRIVER		TOTAL WATTS	DESCRIPTION	MOUNTING	
		QTY.	TYPE	WATTS	QTY.	TYPE				
 A	HIGH BAY FIXTURE, METALUX UHB LED SERIES OR APPROVED EQUAL.	—	LED 13627LUM 4000K	100W	1	DRIVER 0-10V	100W	HIGH BAY FIXTURE, METALUX UNIVERSAL VOLTAGE.	SUSPENDED	
 AE	SAME AS TYPE 'A' EXCEPT PROVIDE WITH EMERGENCY 90 MINUTE BATTERY PACK.									
 B	HIGH BAY FIXTURE, METALUX UHB LED SERIES ORR APPROVED EQUAL.	—	LED 19607LUM 5000K	147W	1	DRIVER 0-10V	147W	HIGH BAY FIXTURE, METALUX UHB LED SERIES, UNIVERSAL VOLTAGE.	SUSPENDED	
 BE	SAME AS TYPE 'B' EXCEPT PROVIDE WITH EMERGENCY 90 MINUTE BATTERY PACK.									
 C	EXTERIOR WALL PACK, COOPER LUMARK WP LED SERIES, OR APPROVED EQUAL.	—	LED 3500LUM 4000K	60W	1	DRIVER 0-10V	60W	LED WALL PACK LIGHT, COOPER LUMARK SERIES, UNIVERSAL VOLTAGE.	WALL	
 REM	RECESSED EMERGENCY FIXTURE, COOPER AEL2 SERIES, OR APPROVED EQUAL, PROVIDED WITH 90 MINUTE BATTERY PACK.	—	LED 3500LUM 4000K	5W	1	—	5W	EMERGENCY FIXTURE, UNIVERSAL VOLTAGE.	WALL	
 X	EMERGENCY EXIT FIXTURE, SURE LITE SERIES.	—	LED 3500LUM 4000K	5W	1	—	5W	EMERGENCY EXIT FIXTURE, UNIVERSAL VOLTAGE.	SUSPENDED	
LIGHT FIXTURE SCHEDULE NOTES:										
1. ALL FINISH TYPES SHOULD BE COORDINATED WITH THE ARCHITECT/INTERIOR DESIGNER(S).										
2. ALL TRIMS AND INSTALLATION REQUIREMENTS SHALL BE COORDINATED WITH THE CEILING TYPE IN WHICH IT IS TO BE INSTALLED. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT CEILING TYPE FOR WHICH THE FIXTURE IS TO BE INSTALLED.										
3. FIXTURE TYPES NOTED ON PLAN WITH SUFFIX 'E' INDICATES FIXTURE TO BE PROVIDED WITH 90 MINUTE MINIMUM BATTERY BACK-UP. (E.G. L1E, L2E, ETC...)										

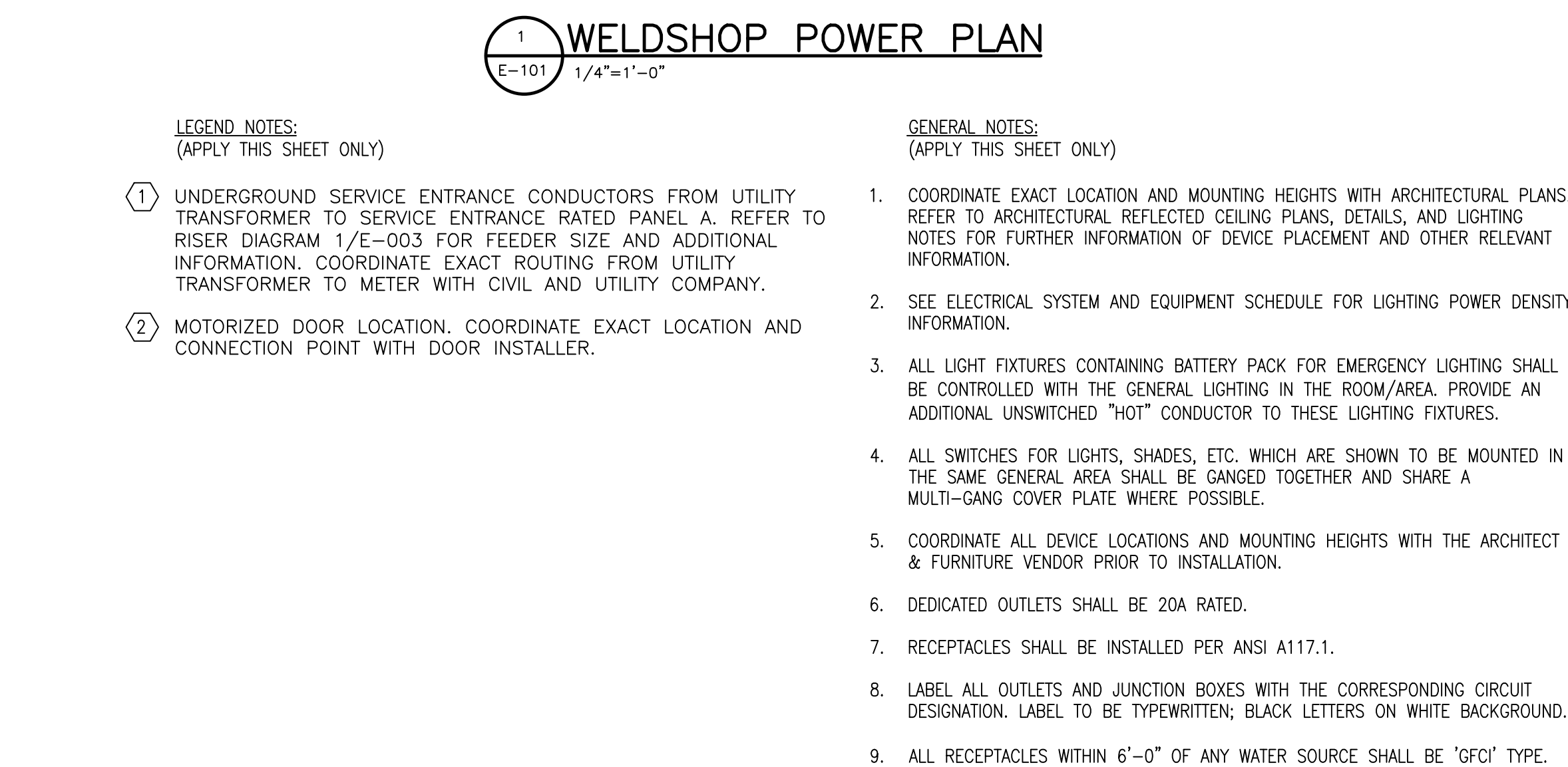
NEW PANEL UB SECTION 1										
VOLTAGE: 120/208 3		AMP: MAIN: 200 MCB		10K AIC SE RATED NEMA 3R						
DESCRIPTION	KW	BKR	CK	PH	CK	BKR	KW	DESCRIPTION		
PANEL REC	0.18	20/1	1	A	2	20/1	0.3	EP-1		
REC	0.72	20/1	3	B	4	20/1	0.41	LTS INTERIOR		
NEMA 6-30R	1.2	30/2	5	C	6	20/1	0.4	OVERHEAD DOOR		
----	1.2	----	7	A	8	----	0	SPACE		
NEMA 6-30R	1.2	30/2	9	B	10	----	0	SPACE		
----	1.2	----	11	C	12	----	0	SPACE		
NEMA 6-30R	1.2	30/2	13	A	14	----	0	SPACE		
----	1.2	----	15	B	16	----	0	SPACE		
NEMA 6-30R	1.2	30/2	17	C	18	----	0	SPACE		
----	1.2	----	19	A	20	----	0	SPACE		
SPACE	0	----	21	B	22	----	0	SPACE		
SPACE	0	----	23	C	24	----	0	SPACE		
SPACE	0	----	25	A	26	----	0	SPACE		
SPACE	0	----	27	B	28	----	0	SPACE		
SPACE	0	----	29	C	30	----	0	SPACE		
SPACE	0	----	31	A	32	----	0	SPACE		
SPACE	0	----	33	B	34	----	0	SPACE		
SPACE	0	----	35	C	36	----	0	SPACE		
SPACE	0	----	37	A	38	----	0	SPACE		
SPACE	0	----	39	B	40	----	0	SPACE		
SPACE	0	----	41	C	42	----	0	SPACE		
A TOTAL	4.08						0.90	RECEPTACLES		
B TOTAL	3.53						0.00	HEATING		
C TOTAL	4.00						0.70	AC/MOTORS		
							0.41	LIGHTING		
							9.60	MISC.		
							0.00	WATER HEATERS		
							0.00	ELEVATORS		
							0.00	KITCHEN EQUIP		
CONN. KW	11.61									
CONN. Amps	32.23									

TOTAL DEMAND LOAD		
RECEPTS: 100% 1ST 10 KW + 50% REMAINING:	=	0.9 KVA
HEAT: 100% :	=	0 KVA
AC/MOTORS: 125% LARGEST + 100% REMAINING:	=	0.7 KVA
LIGHTING: 125%:	=	0.5125 KVA
MISC: 100%:	=	9.6 KVA
WATER HEATER: 125%:	=	0 KVA
ELEVATORS: PER NEC:	=	0 KVA
KITCHEN EQUIP: PER NEC :	=	0 KVA
TOTAL DEMAND LOAD KW:	=	11.7125 KVA
TOTAL DEMAND LOAD AMPS:	=	32.51 AMP

NEW PANEL A SECTION 1										
VOLTAGE: 120/208 3		AMP: MAIN: 100 MCB		10K AIC SE RATED NEMA 3R						
DESCRIPTION	KW	BKR	CK	PH	CK	BKR	KW	DESCRIPTION		
DED REC	0.18	20/1	1	A	2	20/1	0.88	LTS INTERIOR		
DED REC	0.18	20/1	3	B	4	20/1	0.88	LTS INTERIOR		
DED REC	0.36	20/1	5	C	6	20/1	0.36	LTS EXTERIOR		
DED REC	0.36	20/1	7	A	8	----	0	SPACE		
DED REC	0.36	20/1	9	B	10	----	0	SPACE		
DED REC	0.36	20/1	11	C	12	----	0	SPACE		
DED REC	0.18	20/1	13	A	14	----	0	SPACE		
DED REC	0.18	20/1	15	B	16	----	0	SPACE		
SPACE	0	----	17	C	18	----	0	SPACE		
SPACE	0	----	19	A	20	----	0	SPACE		
SPACE	0	----	21	B	22	----	0	SPACE		
SPACE	0	----	23	C	24	----	0	SPACE		
SPACE	0	----	25	A	26	----	0	SPACE		
SPACE	0	----	27	B	28	----	0	SPACE		
SPACE	0	----	29	C	30	----	0	SPACE		
SPACE	0	----	31	A	32	----	0	SPACE		
SPACE	0	----	33	B	34	----	0	SPACE		
SPACE	0	----	35	C	36	----	0	SPACE		
SPACE	0	----	37	A	38	----	0	SPACE		
SPACE	0	----	39	B	40	----	0	SPACE		
SPACE	0	----	41	C	42	----	0	SPACE		
A TOTAL	1.60						2.16	RECEPTACLES		
B TOTAL	1.60						0.00	HEATING		
C TOTAL	1.08						0.00	AC/MOTORS		
							2.12	LIGHTING		
							0.00	MISC.		
							0.00	WATER HEATERS		
							0.00	ELEVATORS		
							0.00	KITCHEN EQUIP		
CONN. KW	4.28									
CONN. Amps	11.88									

TOTAL DEMAND LOAD		
RECEPTS: 100% 1ST 10 KW + 50% REMAINING:	=	2.16 KVA
HEAT: 100% :	=	0 KVA
AC/MOTORS: 125% LARGEST + 100% REMAINING:	=	0 KVA
LIGHTING: 125%:	=	2.65 KVA
MISC: 100%:	=	0 KVA
WATER HEATER: 125%:	=	0 KVA
ELEVATORS: PER NEC:	=	0 KVA
KITCHEN EQUIP: PER NEC :	=	0 KVA
TOTAL DEMAND LOAD KW:	=	4.81 KVA
TOTAL DEMAND LOAD AMPS:	=	13.35 AMP

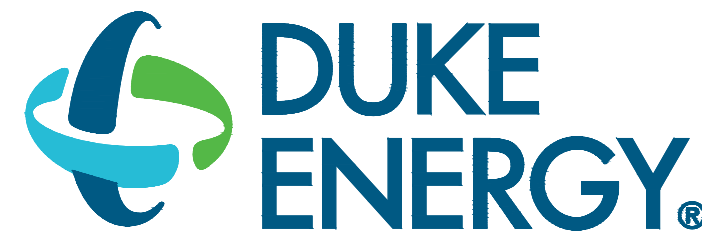
		SPACE TYPES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
LIGHTING CONTROLS	AUTOMATIC CONTROL	OCCUPANCY SENSOR (AUTOMATIC ON/OFF)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	



E-101



- DRAWING NO.
CFD-XXXX-E-0110a-41CC2B



MAILING ADDRESS:
P.O. BOX 1007
CHARLOTTE, NC 28201

Safety Expectations:



- Reduce Risk
- Remove Exposures to Hazards
- Reinforce Safe Behavior

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BWA JOB # 2022-0633



SEAL 02/12/2025

DUNN OPERATIONS CENTER

OPS CENTER OUTBUILDINGS

MARK	DATE	ENTRY	REVISION
9			
8			
7			
6			
5			
4			
3			
2			
1			
0	02.12.2025		ISSUED FOR CONSTRUCTION

PROJECT NO:
DRAWING NUMBER
CFD-XXXX-E-0110a-41CC2B

ELECTRONIC FILE NAME:

DRAWN BY: **SEB** **2/12/25**

CHK'D BY: XXX XXX

E-MAIL: jhall@barrettwoodyard.com

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SHEET TITLE: _____

SHED POWER PLAN - ELECTRICAL

SHEET NO. _____

E-101a