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DRAWING INDEX	(DRAWING RELEASE HISTORY						
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CODES AND LOADS	2	Final Erection Drawings Rev0	1/14/2024	FOR CONSTRUCTION				
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SPECIAL DRAWINGS								
STANDARD ERECTION DETAILS								
PLANOGRAPH DETAILS								

BASIC BUILDING INSTALLATION GUIDE 3586 MR-24 ROOF INSTALLATION GUIDE 4797

ROOF OWNERS MAINTENANCE 5038

Contact Information: Project Manager Mark Williams (816) 968-4773 Designer Shadrach Rubio-Pelayo (479) 857-2248 Lead Detailer Leticia Mortera (816) 968-3350 ext.2321 (816) 582-3185 onstruction Consultant Ray Nagiewicz

GENERAL NOTES

ASTM DESIGNATION

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

MATERIALS

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

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 TIGHTNENING INSTRUCTIONS. THE FOLLOWING CRITERIN AVE BUSED TO DETERMINE THE BOLT TIGHTNESS (JE. SING) THAT OR PRE-TESISION UNLESS REQUIRED OTHERWISE BY LOCAL JURISDICTION OR

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 A225 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 A225-SC. SLIP CRITICAL (SC) CONNECTIONS MUST BE FREE OF PAINT, OIL OR OTHER MATERIALS THAT REDUCE FRICTION AT CONTACT SURFACES. GALVANIZED OR LIGHTLY RISTED 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 (GAA) APPROVED BY THE AHI. THE BUILDER IS RESPONSIBLE TO COORDINATE DETWEEN THE GAA FIRM AND
BRIAK ABBICATION FACILITIES. THE TYPE AND EXTENT OF SPECIAL INSPECTIONS AND NOT WELD TESTING MUST BE SPECIFICALLY
STPULATED IN CONTRACT DOCUMENTS OR BRISH WILL ASSURE SPECIAL INSPECTIONS AND NOT WELD TESTING MUST BE SPECIFICALLY BY THE BUILDING CODE BASED ON BBNA FACILITIES IAS AC472 ACCREDITATION.

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Reviewed For Construction PG 1-35 on 1/9/2025 by SR

BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102 BUILDER: MAR BUILDING SOLUTIONS LLC

COVER SHEET

OCATION: Lees Summit Missouri

PROJECT: KR Wholesale

BUILDER'S PO#: 200440709

BUTLER Butler Manufacturing VPC VERSION: 24.3.1

24-025448-01 1/14/2024 LDCM GL

REQUIREMENTS SPECIFIED BY BUTLER.
THE BUTLER MFG. ENGINEER'S SEAL DOES
NOT APPLY TO THE PERFORMANCE OR THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE THE GENERAL CONTROL TOR ABUINC ENECT ON THE SELF RESPONSIBLE FOR ACCUR-GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH T DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG. ESECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLIDING THE CORRECT USE OF TEMPORARY BRACING. DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER.

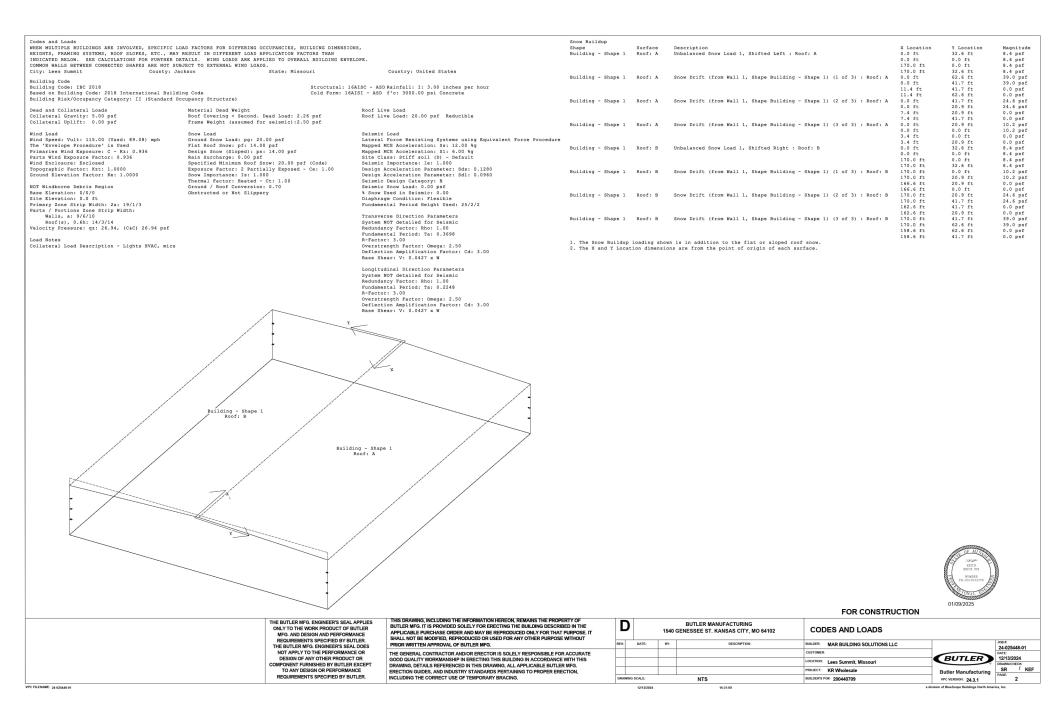
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APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT

PRIOR WRITTEN APPROVAL OF BUTLER MFG.

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BUILDER/CONTRACTOR RESPONSIBILITIES

Butler Mfg, follows the guidelines as outlined in the AISC and MBMA Codes of Standard Practice. Butler Mfg, standard product specification, design, fabrication, quality criteria shall govern all work unless stipulated otherwise in the contract documents. In case of discrepancies between Butler Mfg, structural plans and plans for other trades, Butler Mfg, 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 Butter Mfg drawings constitutes the builders acceptance of Butter interpretation of the contract purchase order. Unless specific design criteria concerning interface design and details are furnished as part of the contract, Butter Mfg. design assumptions shall govern

Butter engineers are not Project Engineers or Engineer of Record for the overall project. Butter engineering supply sealed engineering design data and drawings for Butter 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 Butter are to be considered and coordinated by the builder or ALE firm.

CONSTRUCTION & ERECTION RESPONSIBILITY

The Builder is responsible for construction in strict accordance with Butler Mfg.
"FOR CONSTRUCTION" drawings and all applicable product installation guides. Butler is not responsible for work done from any other Butler 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 516), which require LS00 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 eractor shall be properly licensed and experienced in eracting metal building systems. The Buildier is exponsible 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 eraction of the building. Butler bracing is designed for code required located and installing temporary supports and bracing during eraction of the building. Butler bracing is designed for code required located and shall not be considered as adequate erection bracine. See Ferction 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 rector 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 extracteristics like legar span frames adjacent nor so nedwall or modular frame). Shims are normally provided by the erector, but may be ordered upon request by contacting your Project Manager.

EXISTING STRUCTURES

Butler must be advised of any structure that is within 20 ft. of Butler's building. Load effects from snow driftling, wind effects, and seismic separation must be considered for both the new and existing structures. Butler has designed the new Butler 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 Butler 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 tightende. 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 Butler 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 Butler components. Butler accepts no responsibility for design or installation of bracing systems not furnished by Butler.

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. Filter metal shall be 70 ksi (480 MPs) tensile strength. For welds in high selsmic force resisting system (Seismic Cat D, E or F), minimum Charpy V-Notch toughness shall meet ANSC-341 criteria (20 nt-bis min @ 000 pg F). Interposa temperatures shall not exceed 6500ep E (3000pg C).

SIGNAGE

The Bullder is responsible for furnishing signs as required by Code and the Building Department, including but not limited to, exits, occupancy limits, floor loading inmits, 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 wills 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.

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.

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 Butler'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 full productive 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 jo bis the storage procedure.

SEALANTS

Sealants shall be applied in strict accordance with Butler 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 Butler building has been provided to avoid structural damage due to differential movements, or inadvertently apply loads to the Butler structure. Butler 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 coal fire code regulations including consideration of, but not initiated to, building use and occupancy, all building construction materials, separation requirements, egress requirements, fire protection systems, etc. Builder shall active Butler of any special requirements to be furnished by Butler of any special requirements to be furnished by Butler of any special requirements to be furnished by Butler of any special requirements to be furnished by Butler of any special requirements to be furnished by Butler of any special requirements to be furnished by Butler of any special requirements to be furnished by Butler of any special requirements to be furnished by Butler of any special requirements to be furnished by Butler of any special requirements to be furnished by Butler of any special requirements.

FIELD MODIFICATIONS

Modifications to this building from details and instructions contained on these drawings must be approved in writing by Butler Mfg. engineers, or other licensed structural engineer. This includes but is not limited to, removing of road 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. Butler Mfg. accepts no responsibility for the consequences of any unauthorized additions, alterations, or added loads to this structure.

If the builder intends to invoice Butler Mfg. for modifications in excess of \$1000, The builder must notify Butler Mfg. immediately, and obtain a Work Authorization from Butler Mfg prioreceding. All final claims must be submitted to Butler Mfg 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 Blutler Mfg, any wall to steel compatibility issues such as drift and deflection compatibility, special base details, and wall to Butler 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 Butler 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 Butler, fabrication methods installation procedures, and post installation thermal forces. Thu 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 property 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. Butler 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 Butler's shop coat is to provide protection for the steel members during transportation, during temporary job alte storage and during rection. 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 property drained during job site storage. It is the Builder's responsibility to ensure that if a finish coat is being applied over Butler shop coat that the painting contractor verifies compatibility between his finish coat and Butler's shop coat.

BUTLER MFG. 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#EBO037; City of Houston, TX 767;
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.lasonline.org/services/metal-building-inspection)
Listed under Butler Manufacturing, 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-ALIRCA-5589-E; AZ#22225-0; AR#576; FL#30427; GAMPEF007551; ID#C-2470; IL#184-002649; KKS29; KY#4490; LAWEF6722; MSH20592; MOFEZ-010007736; NCDF-0998; NDH1579FE; NJ#24GA2831800; NJ#204372; MSH205898; OK#CA4170FE; RIJ#S38; SC/#6206; SD#C-1787; TX#F4828; VA#0411001520; VA#0411001518; WA#4119; WWC03059-00
CAN-ABMP9800; NB#F0951; NLBD0044; NSB07323; NT#P062: ON#100148796; and YT#PP134



FOR CONSTRUCTION

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THE GENERAL CONTRACTOR AND/OR ERECTION IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BULLDING IN ACCORDANCE WITH THIS DRAWING, DETAIL REPRESEADED IN THIS DRAWING, DETAIL REPRESEADED IN THIS DRAWING, DETAIL REPRESEADED IN THIS DRAWING, DETAIL REPRESEADED INTERIOR PROPERTY AND ACCORDANCE WITH THIS DRAWING, DETAIL REPRESEADED IN THIS DRAWING, DETAIL REPRESEADED IN THIS DRAWING, DETAIL REPRESEADED INTERIOR PROPERTY AND ACCORDANCE WITH THIS DRAWING, DETAIL REPRESEADED INTERIOR PROPERTY AND ACCORDANCE WITH THIS DRAWING, DETAIL REPRESEADED INTERIOR PROPERTY AND ACCORDANCE WITH THIS DRAWING, DETAIL REPRESEADED INTERIOR PROPERTY AND ACCORDANCE WITH THIS DRAWING, DETAIL REPRESEADED INTERIOR PROPERTY AND ACCORDANCE WITH THIS DRAWING, DETAIL REPRESEADED INTERIOR PROPERTY BEACHTON, INTERIOR PROPERTY BEACHTON, INTERIOR PROPERTY BEACHTON, OR THE PROPE

ᄔ	,	1540	GENESSEE ST. KANSAS CITY, MO 64102	ERECTION NOTES			
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC		
				CUSTOMER			
П				LOCATION:	Lees Summit, Missouri		
				PROJECT:	KR Wholesale		
DRAW	VING SCALE:		NTS	BUILDER'S F	O#: 200440709		

BUTLER Butler Manufacturing

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12/13/2024

SR PAGE:

VPC VERSION: 24.3.1

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BUT ER MANUEACTURING

NOTES FOR LARGE CLEAR SPAN PROJECTS (TYPICALLY 120' & GREATER):

THESE INSTRUCTIONS TYPICALLY APPLY TO FRAMES WITH CLEAR SPANS 120' OR GREATER, HOWEVER, IF A BUILDING SUPPORTS HEAVY ROOF LOADS OR LARGE BAYS, THEN SMALLER SPANS MAY BE OF CONCERN; REVIEW WITH YOUR SERVICE CENTER TO OBTAIN ANSWERS TO QUESTIONS.

LARGE CLEAR SPAN FRAMES VERTICALLY DEFLECT UNDER SELF WEIGHT AS WELL AS UNDER THE ADDITIONAL WEIGHT OF MATERIAL ATTACHING

FIVE REFERENCE ELEVATIONS ARE PROVIDED. THE FIRST ELEVATION IS THE FRAME IN ITS THEORETICAL UNLOADED POSITION (NO CAMBER OR SETTLEMENT). THE SECOND ELEVATION IS THE CAMBERED FRAME POSITION. THE THIRD ELEVATION IS THE FRAME SETTLEMENT UNDER TRAME SELF WEIGHT. THE FOURTH ELEVATION IS THE FRAME SETTLEMENT UNDER THE DEAD LOAD OF INTEGRAL MATERIAL (FRAME WEIGHT PLUS PURLINS, INSULATION, COVERING, AND LINER). THE FIFTH SCHEMATIC IS THE FRAME SETTLEMENT UNDER DEAD LOAD AND COLLATERAL

DURING THE COURSE OF CONSTRUCTION, DIFFERENTIAL SETTLEMENTS MAY OCCUR IN RAFTER ELEVATIONS FROM FRAME LINE TO FRAME LINE. AS LONG AS ELEVATIONS EXCEED THE POSITIONS TABULATED, NO CONCERN IS NECESSARY.

IF THE ELEVATIONS DO NOT EXCEED THE TABULATED VALUES, REVIEW THE FIELD CONDITIONS WITH YOUR SERVICE CENTER TO ENSURE THE STRUCTURAL INTEGRITY OF THE BUILDING SYSTEM SUPPLIED.

MANY FIELD CONDITIONS CAN CAUSE FIELD VARIATION IN ELEVATION FROM CALCULATED VALUES. IF ALL OTHER FIELD CONDITIONS HAVE BEEN REVIEWED AND DETERMINED TO HAVE BEEN INSTALLED CORRECTLY IN ACCORDANCE WITH ERECTION DRAWINGS, THEN SHIMMING OF THE FRAME IS A VIABLE SOLUTION TO ADJUST ELEVATIONS TO A CORRECT LEVEL.

*SHIMS ARE TO BE PROVIDED BY THE ERECTOR.

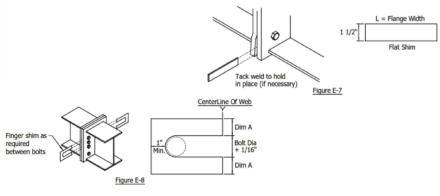
**SEE BUTIER'S MIDESPAN INSTALLATION GUIDE (3586)- SECTION E (BOLT TIGHTENING E-4) FOR
(SKETCHES PROVIDED TO RIGHT FOR REFERENCE).

**SHIMMING OF CONNECTIONS SHOULD BE EXPECTED TO MAINTAIN KEY DIMENSIONS
SUCH AS CLEARANCE, HEIGHT, AND PLUMENESS OF THE ERECTED BUILDING.
AS NOTED ABOVE SHIMS ARE NORMALLY PROVIDED BY THE ERECTOR, BUT MAY BE
ORDERED UPON REQUEST BY CONTACTING YOUR PROJECT MANAGER.

CAMBER DL+CG IS INCLUDED ON THE FRAMES OF THIS PROJECT.
ALL DIMENSIONS ARE FROM FINISH FLOOR TO THE TOP OF THE RAFTER SPLICE PLATE AT THE RIDGE.
NEGATIVE DEFLECTIONS ARE DOWNWARD, POSITIVE DEFLECTIONS OR CAMBER ARE UPWARD.
HEIGHTS ABOVE FINISH FLOOR ARE ROUNDED TO NEAREST SIXTEENTH.

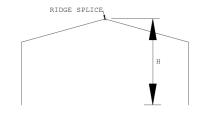
On occasion shims may be required to fill joint gaps, level beams, accommodate varying depth of members, level frame bases, adjust for differential frame deflection, etc. Some shimming must be anticipated by the erector and is considered by the Code of Standard Practice to be part of the erection contract. Shims are provided by the erector.

Shimming between gaps at flanges is accomplished with thin flat plates stacked between the joints.



- Dim A = 1". Shim dimensions may vary from those shown if required for fit up
- · Multiple shims may be stacked to fill required gap.
- Gaps greater than a 1/4" require engineering review. Contact your Project Manager.

THEORETICAL SHAPE:		CAMBERED	SHAPE:	DEFLECTED	SHAPE:	DEFLECTE	D SHAPE:	DEFLECTED SHAPE:	
AS MODELED		AS FABRICATED		SELF WEIGHT		DEAD LOAD		DEAD + COLLATERAL LOAD	
GRID	HO (FT) AFF	Δ (IN) FROM CAMBER	H1 (FT) AFF	Δ (IN) FROM LOAD	H2 (FT) AFF	Δ (IN) FROM LOAD	H3 (FT) AFF	Δ (IN) FROM LOAD	H4 (FT) AFF
FL 2&3	25'-9 3/4"	3.0000	26'-0 3/4"	-0.9000	25'-11 7/8"	-0.9000	25'-11 7/8"	-2.0000	25'-10 3/4"
FL 3&4	25'-9 3/4"	3.0000	26'-0 3/4"	-0.9000	25'-11 7/8"	-0.9000	25'-11 7/8"	-2.0000	25'-10 3/4"
FL 5&6	25'-9 3/4"	3.0000	26'-0 3/4"	-0.9000	25'-11 7/8"	-0.9000	25'-11 7/8"	-2.0000	25'-10 3/4"
FL 7	25'-9 3/4"	3.0000	26'-0 3/4"	-0.9000	25'-11 7/8"	-0.9000	25'-11 7/8"	-2.0000	25'-10 3/4"



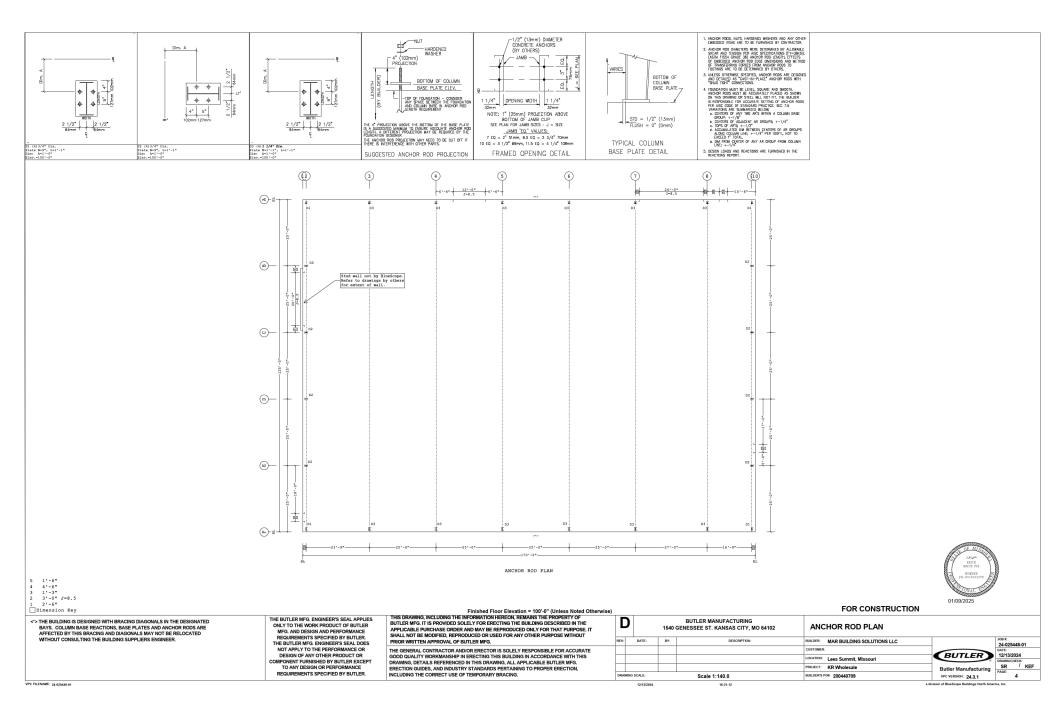


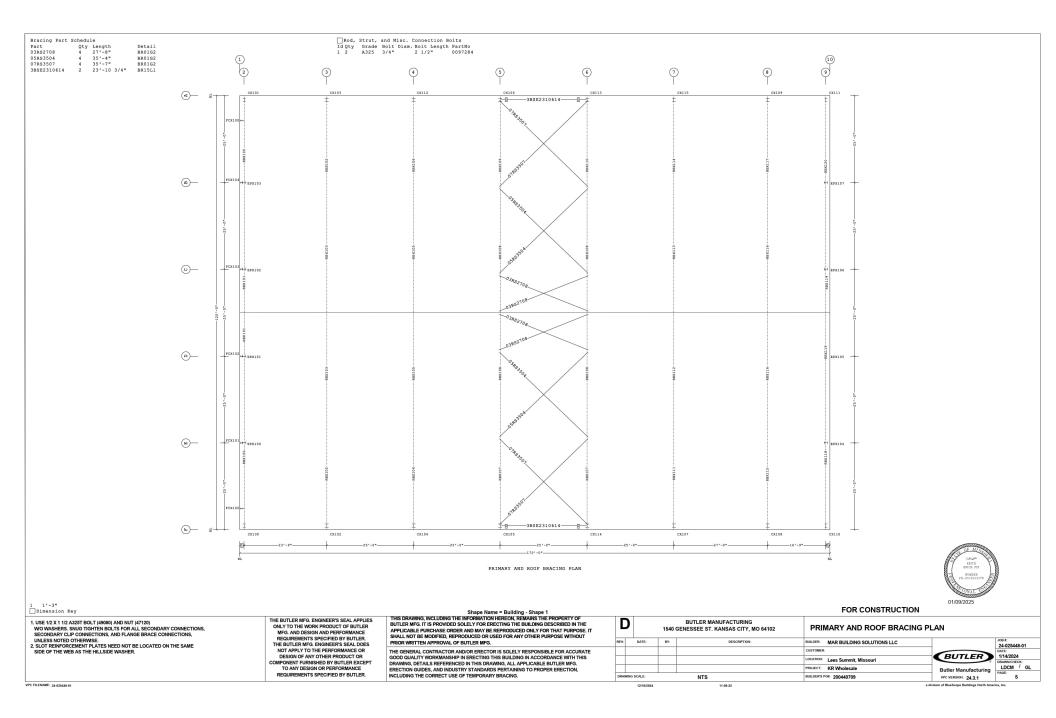
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THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS SULLING IN SCORDANCE
WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER
MFG. RECTION QUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER
ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102					LARGE CLEARSPAN NOTES				
	REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01	
					CUSTOMER		BUTLER	DATE:	
					LOCATION:	Lees Summit, Missouri		12.18.2024 DRAWN/CHECK:	
					PROJECT:	KR Wholesale	Butler Manufacturing	SR /	
	DRAWIN	G SACLE:			BUILDERS	** 200440709	VPC VERSION:	PAGE: 3a	
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Shape Name = Building - Shape 1 Wall 1, Frame 1
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PRIOR WRITTEN APPROVAL OF BUTLER MFG. FOR CONSTRUCTION THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. 1. USE 1/2.1 1/2. A3EST BOLT (4989) AND NUT (4719)
WO WASHESS SAUR TORFERS BOLTS FOR ALL SECONDARY CONNECTIONS,
SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS,
UNLESS NOTED OTHERWISE.
2. SLOT REINFORCEMENT FLATES NEED NOT BE LOCATED ON THE SAME
SIDE OF THE WEED AS THE HILLISDE WASHER. BUTLER MANUFACTURING D ENDPOST CROSS SECTION AT [B-1] 1540 GENESSEE ST. KANSAS CITY, MO 64102 BUILDER: MAR BUILDING SOLUTIONS LLC JOB #: 24-025448-01 THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, ETAIL SPETERNEED IN THIS DRAWING, ETAIL SPETERNEED IN THIS DRAWING, ALL APPLICABLE BUILDILG WIFE, ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRANCH. (BUTLER) DATE: 1/14/2024 LOCATION: Lees Summit, Missouri Butler Manufacturing DRAWNUCHECK:
LDCM / GL
PAGE:

DRAWING SCALE:

NTS

PROJECT: KR Wholesale

BUILDER'S PO#: 200440709

VPC VERSION: 24.3.1

Frame Member Schedule
Part Mem Width Thick WebThk. Depth1
FCX104 30001 5.0000 .2500 .1345 8 1/2"

VPC FILENAME: 24-025448-01

Approx.Lgth Approx.Weight 6'-10 3/4" 90#

Frame Member Schedule
Part Mem Width Thick WebThk. Depth1
FCX103 30001 5.0000 .2500 .1345 8 1/2" Approx.Lgth Approx.Weight 5'-11 1/4" 79# Shape Name = Building - Shape 1 Wall 1, Frame 2
THIS DRAWNING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF
BUTLER MFG, IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING BESCRIBED IN THE
APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT
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BUTLER MANUFACTURING

1540 GENESSEE ST. KANSAS CITY, MO 64102

ENDPOST CROSS SECTION AT [C-1]

JOB #: 24-025448-01

(BUTLER) DATE: 1/14/2024

Butler Manufacturing DRAWNUCHECK:
LDCM / GL
PAGE:

BUILDER: MAR BUILDING SOLUTIONS LLC

LOCATION: Lees Summit, Missouri

PROJECT: KR Wholesale

D

DRAWING SCALE:

1. USE 1/2.1 1/2. A3EST BOLT (4989) AND NUT (4719)
WO WASHESS SAUR TORFERS BOLTS FOR ALL SECONDARY CONNECTIONS,
SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS,
UNLESS NOTED OTHERWISE.
2. SLOT REINFORCEMENT FLATES NEED NOT BE LOCATED ON THE SAME
SIDE OF THE WEED AS THE HILLISDE WASHER.

Frame Member Schedule
Part Mem Width Thick WebThk. Depth1
FCX102 30001 5.0000 .2500 .1345 8 1/2" Approx.Lgth Approx.Weight 5'-11 1/4" 74# Shape Name = Building - Shape 1 Wall 1, Frame 3
THIS DRAWNING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF
BUTLER MFG, IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING BESCRIBED IN THE
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BUTLER MANUFACTURING

1540 GENESSEE ST. KANSAS CITY, MO 64102

ENDPOST CROSS SECTION AT [D-1]

JOB #: 24-025448-01

(BUTLER) DATE: 1/14/2024

Butler Manufacturing DRAWNUCHECK:
LDCM / GL
PAGE:

BUILDER: MAR BUILDING SOLUTIONS LLC

LOCATION: Lees Summit, Missouri

PROJECT: KR Wholesale

D

DRAWING SCALE:

1. USE 1/2.1 1/2. A3EST BOLT (4989) AND NUT (4719)
WO WASHESS SAUR TORFERS BOLTS FOR ALL SECONDARY CONNECTIONS,
SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS,
UNLESS NOTED OTHERWISE.
2. SLOT REINFORCEMENT FLATES NEED NOT BE LOCATED ON THE SAME
SIDE OF THE WEED AS THE HILLISDE WASHER.

Shape Name = Building - Shape 1 Wall 1, Frame 4
THIS DRAWNING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF
BUTLER MFG, IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING BESCRIBED IN THE
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LDCM / GL
PAGE: PROJECT: KR Wholesale DRAWING SCALE: BUILDER'S PO#: 200440709 NTS VPC VERSION: 24.3.1

Frame Member Schedule
Part Mem Width Thick WebThk. Depth1
FCX101 30001 5.0000 .2500 .1345 8 1/2"

VPC FILENAME: 24-025448-01

Approx.Lgth Approx.Weight 6'-10 3/4" 86#

| Connection & Plate Schedule | Flate | | Fl Frame Member Schedule
Part Mem Width Thick WebThk. Depth1
FCX100 30001 6.0000 .2500 .1345 8 1/2" Approx.Lgth Approx.Weight 4'-2 5/16" 90# ERECTION NOTE:
For parapet post and support beam locations refere to the Roof Secondary Plan. Support beam information is shown in the Roof Secondary Plan.

SUPPORT BEAM

ENDPOST CROSS SECTION ON SUPPORT BEAM (SBX) BETWEEN A-B & E-F

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.

SLOT REINFORCEMENT PLATES NEED NOT BE SIDE OF THE WEB AS THE HILLSIDE WASHER.

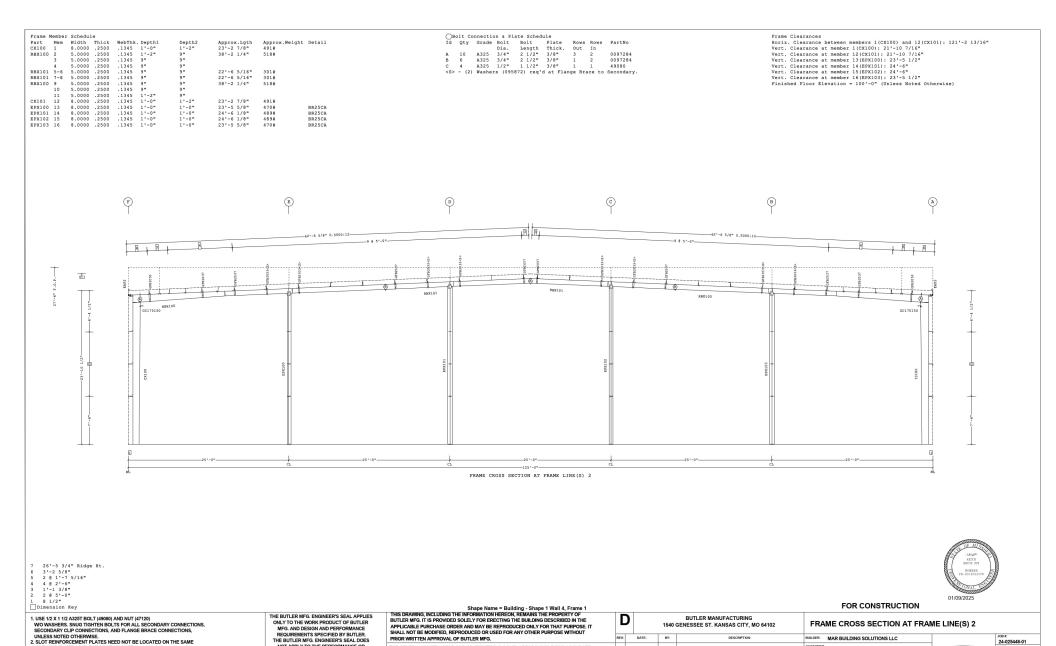
THE BUTLER MFG. ENGINEERS SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIEMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEERS SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIEMENTS SPECIFIED BY BUTLER.

Shape Name = Building - Shape 1 Wall 1, Frame 1
THIS DRAWNING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF
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FOR CONSTRUCTION

С		1540	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	END	POST CROSS SECTION ON SI	вх	
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01
				CUSTOMER			DATE:
				LOCATION:	Lees Summit, Missouri	BUTLER	1/14/2024 DRAWNICHECK:
				PROJECT:	KR Wholesale	Butler Manufacturing	LDCM / GL
DRAW	ING SCALE:		NTS	BUILDER'S I	² OF: 200440709	VPC VERSION: 24.3.1	PAGE: 10
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GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS
DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG.
ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION,
INCLUDING THE CORRECT USE OF TEMPORARY BRACING. REQUIREMENTS SPECIFIED BY BUTLER. DRAWING SCALE NTS BUILDER'S PO#: 200440709 VPC VERSION: 24.3.1

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE

BUILDER: MAR BUILDING SOLUTIONS LLC

LOCATION: Lees Summit Missouri

PROJECT: KR Wholesale

24-025448-01

LDCM / GL PAGE:

11

BUTLER 1/14/2024

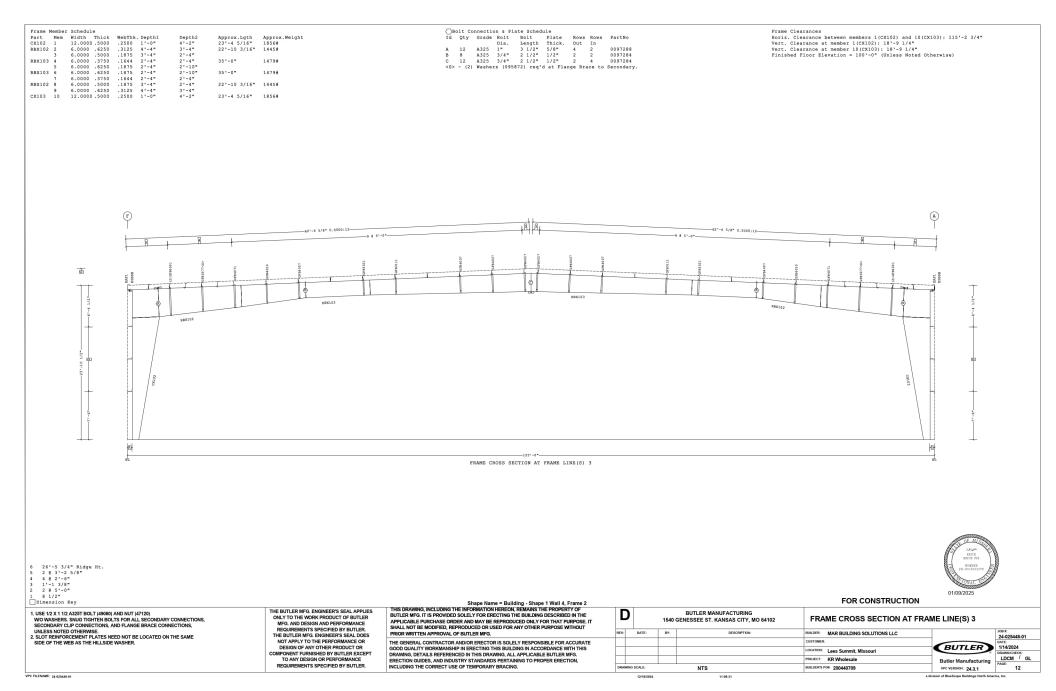
Butler Manufacturing

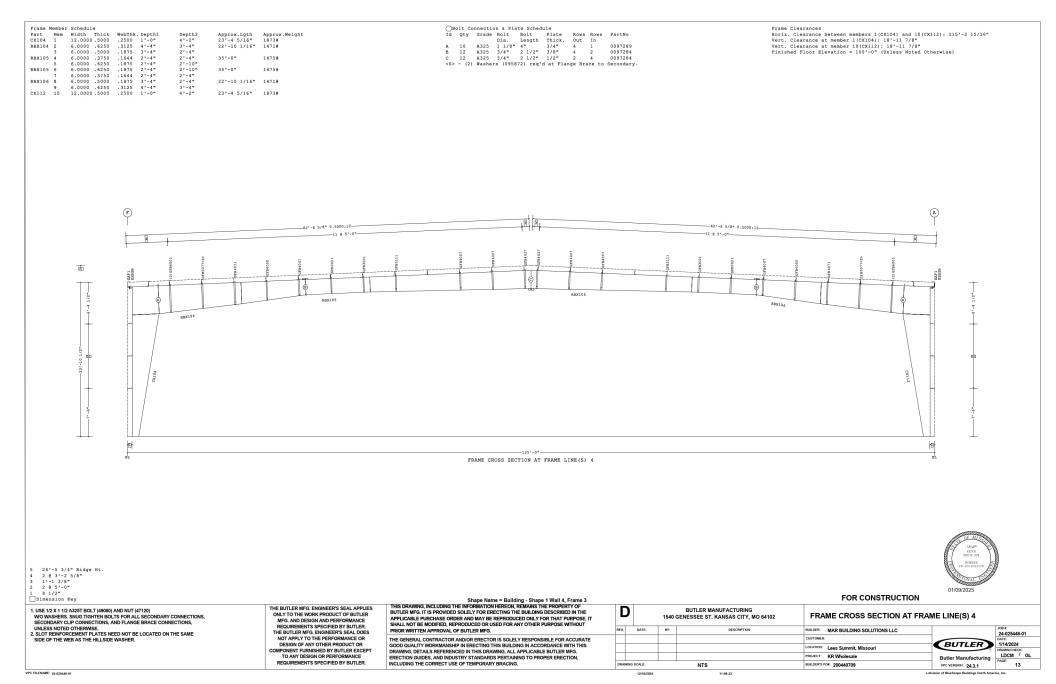
REQUIREMENTS SPECIFIED BY BUTLER.
THE BUTLER MFG. ENGINEER'S SEAL DOES
NOT APPLY TO THE PERFORMANCE OR

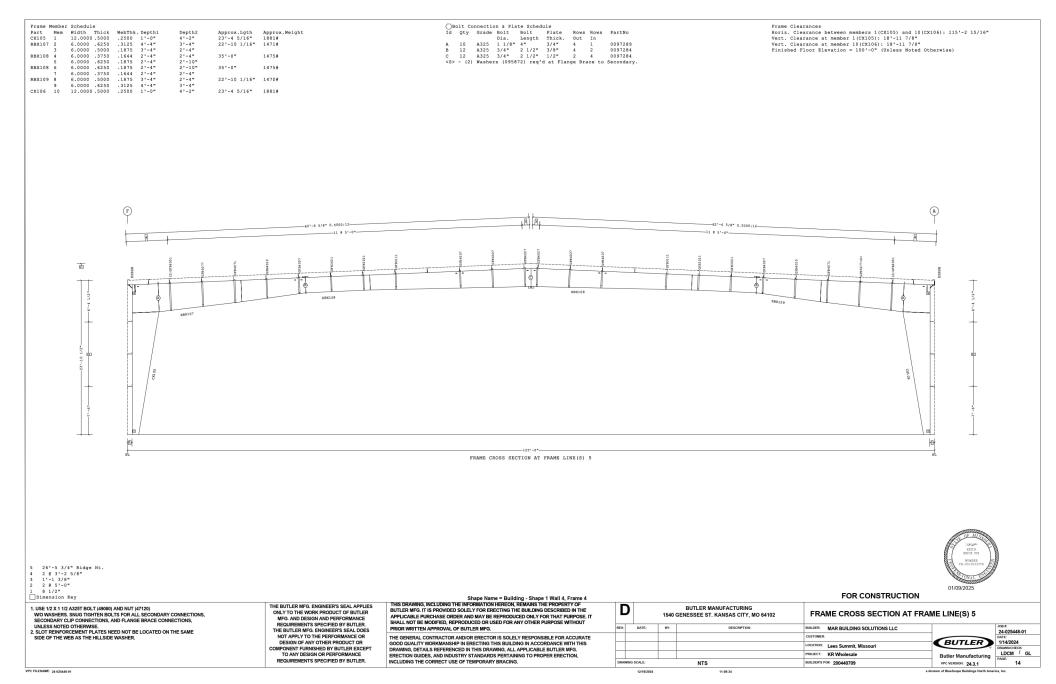
DESIGN OF ANY OTHER PRODUCT OR

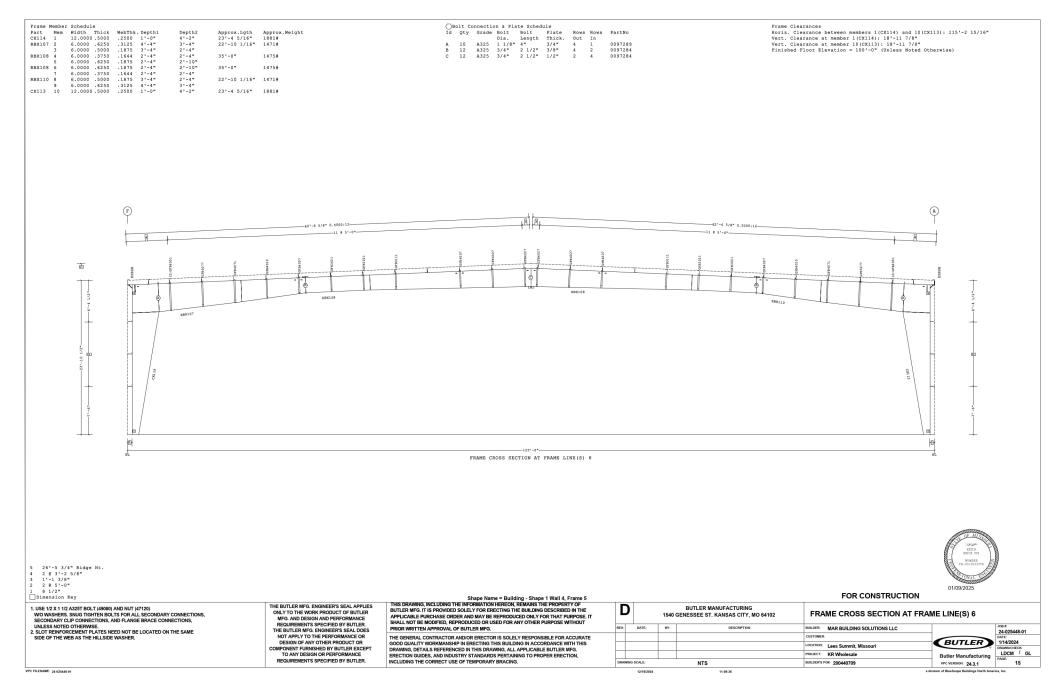
COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE

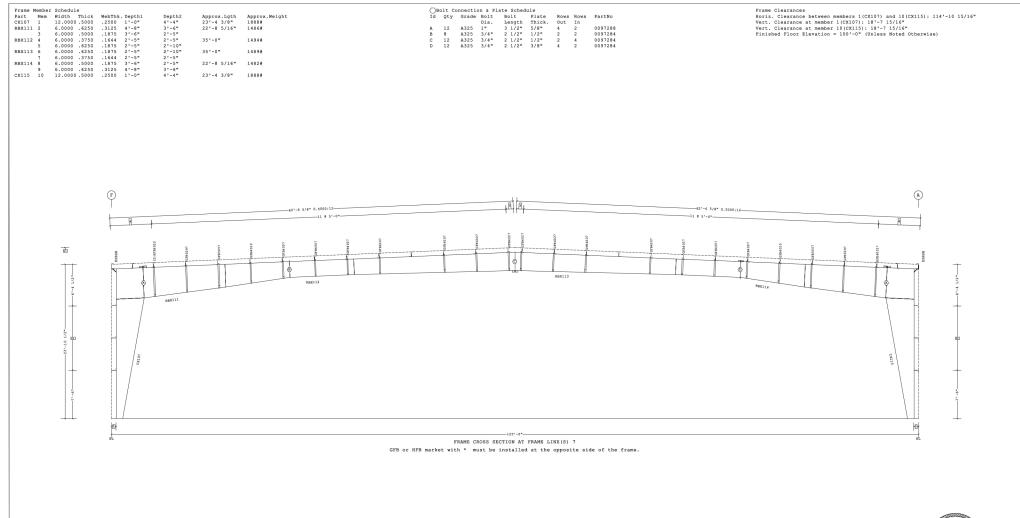
SIDE OF THE WEB AS THE HILLSIDE WASHER.





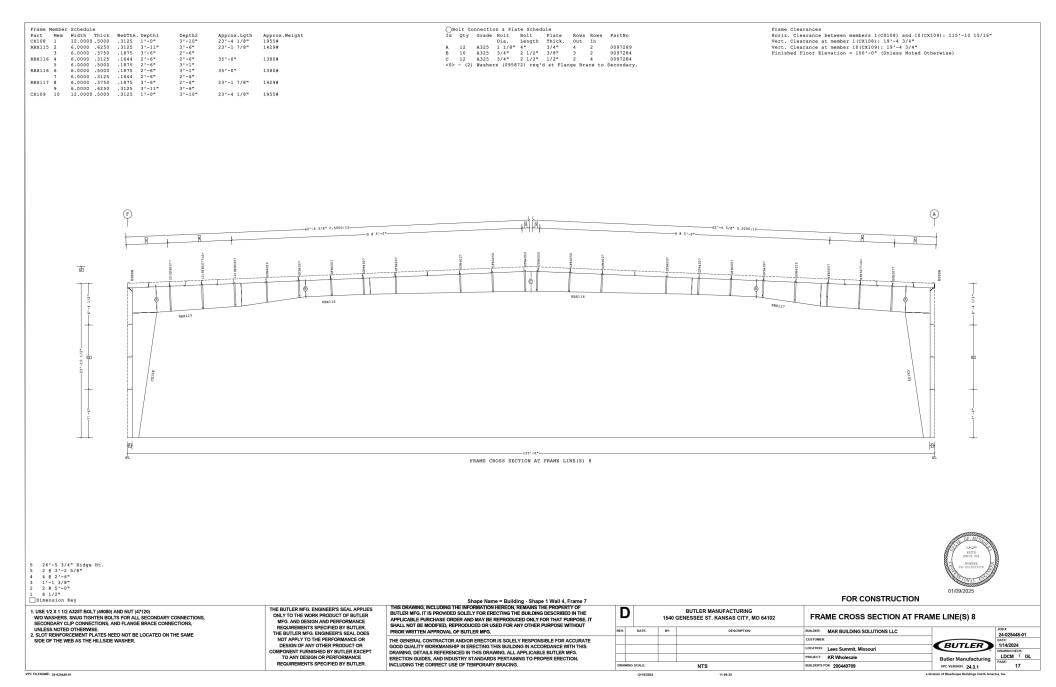


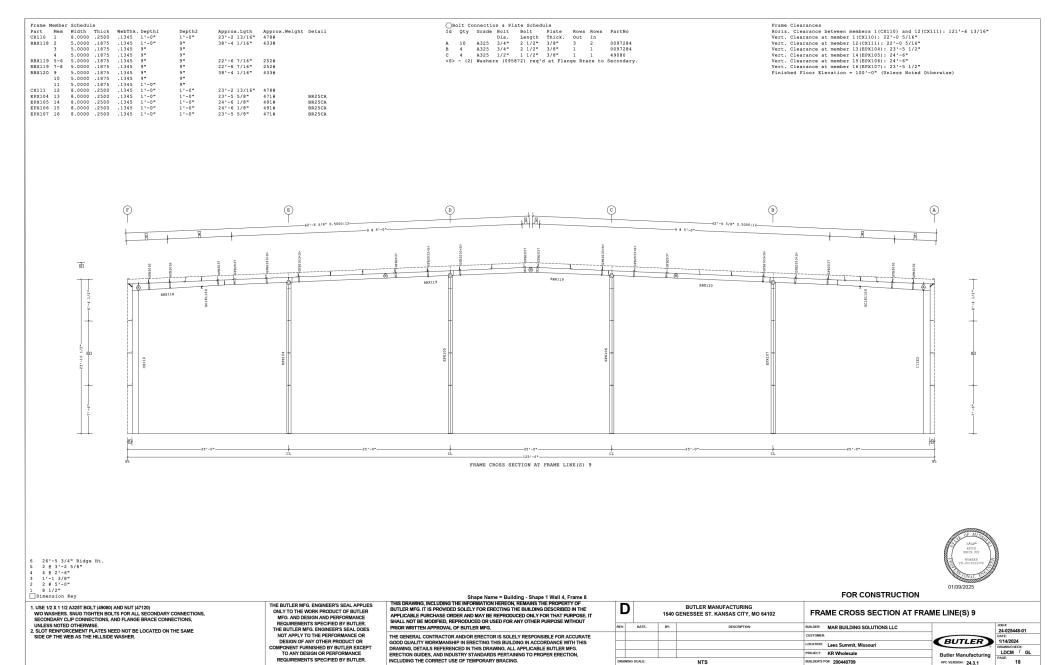






5 26'-5 3/4" Ridge Ht. 4 2 & 3'-2 5/8" 3 1'-1 3/8" 2 2 & 5'-0" 1 8 1/2"							NOME OF THE PROPERTY OF THE PR
Dimension Key		Shape Name = Building - Shape 1 Wall 4, Frame 6				FOR CONSTRUCTION	
USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) WIO WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CUP CONNECTIONS, AND ELANGE BRACE CONNECTIONS,	THE BUTLER MFG, ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER.	THIS DRAWNIG, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF BUTLER MER, IT IS PROVIDED SOLELY FOR EXECTING 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	D		BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102	FRAME CROSS SECTION AT FRAM	
UNLESS NOTED OTHERWISE. 2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME	THE BUTLER MFG. ENGINEER'S SEAL DOES	PRIOR WRITTEN APPROVAL OF BUTLER MFG.	REV: DATE	E:	BY: DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC	JOB #: 24-025448-01
SIDE OF THE WEB AS THE HILLSIDE WASHER.	NOT APPLY TO THE PERFORMANCE OR	THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE				CUSTOMER:	DATE:
	DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT	GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG.				LOCATION: Lees Summit, Missouri	BUTLER 1/14/2024
	TO ANY DESIGN OR PERFORMANCE	ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION,				PROJECT: KR Wholesale	Butler Manufacturing LDCM / GL
	REQUIREMENTS SPECIFIED BY BUTLER.	INCLUDING THE CORRECT USE OF TEMPORARY BRACING.	DRAWING SCALE	E	NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1



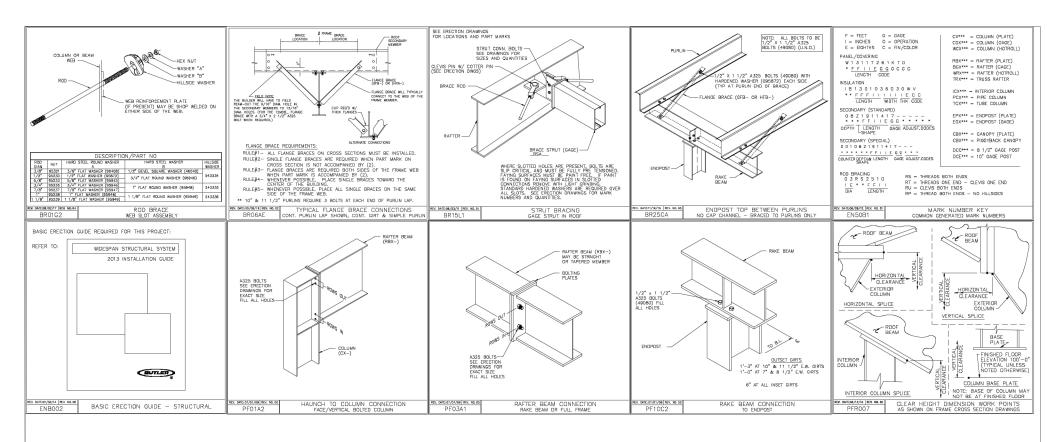


NTS BUILDER'S PO#: 200440709 VPC VERSION: 24.3.1

DRAWING SCALE

18

REQUIREMENTS SPECIFIED BY BUTLER.





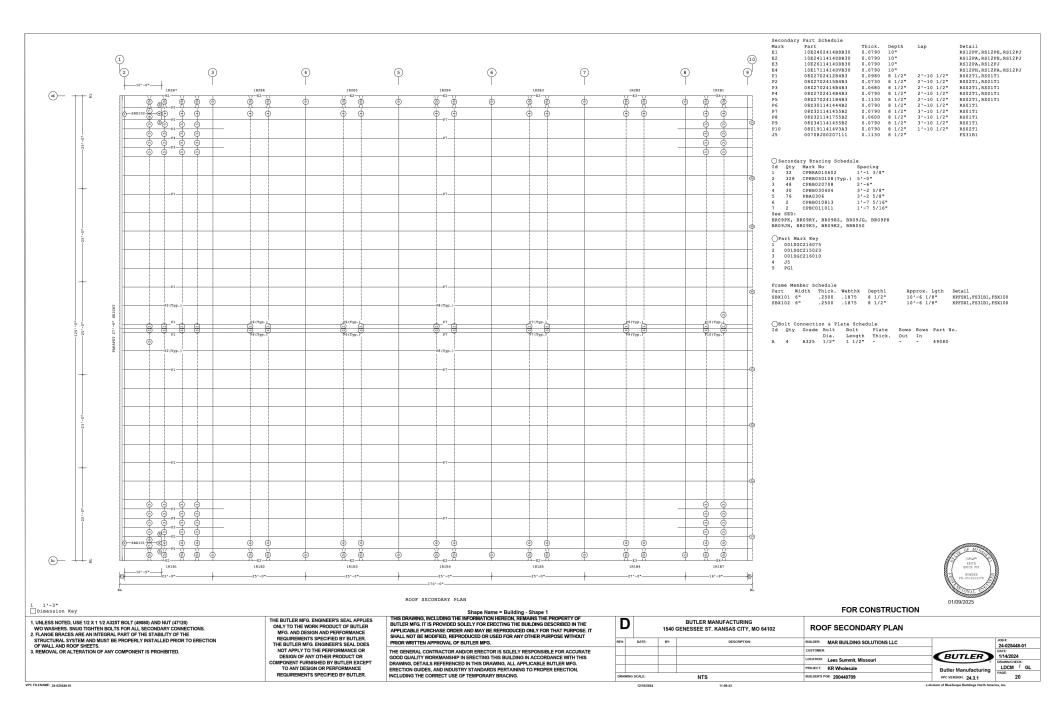
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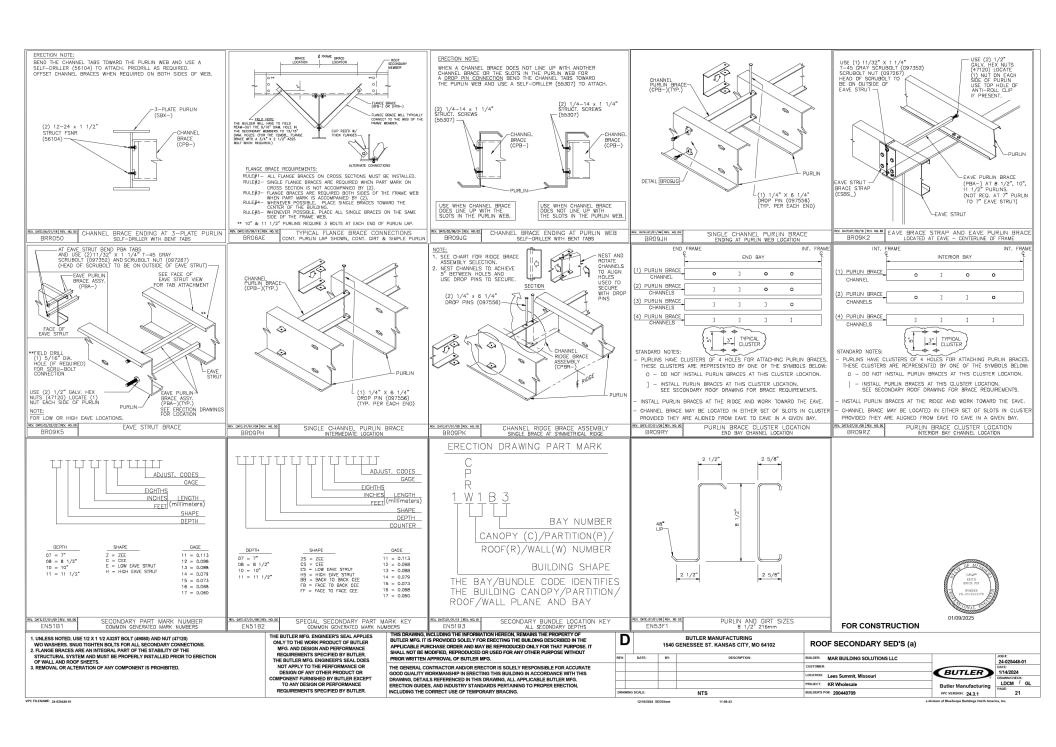
FOR CONSTRUCTION

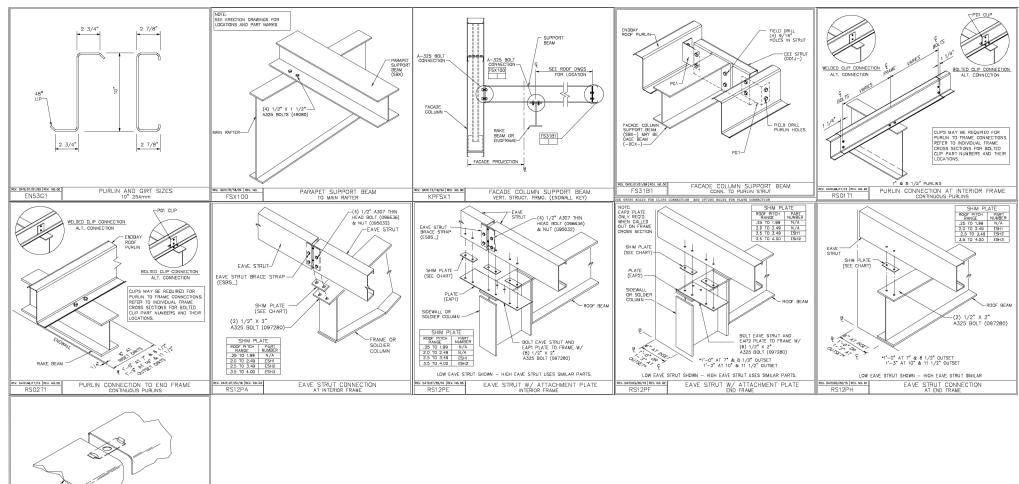
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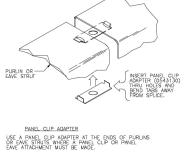
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REQUIREMENT SPECIFIED B









REV. DATE: 12/05/09 REV. NO. DO

RS12PJ PANEL CLIP AT EAVE STRUT RS12PJ LOCATED WHERE STRUT STOPS BUT CONNECTION REQUIRED

 UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120)
 WIO WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.
 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 BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER.
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					FOR CONSTRUCTION		
Е)	1540	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	ROC	OF SECONDARY SED'S (b)		
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01
				CUSTOMER			DATE:
				LOCATION:	Lees Summit, Missouri	BUTLER	1/14/2024 DRAWNICHECK:
				PROJECT:	KR Wholesale	Butler Manufacturing	LDCM /
DRAV	VING SCALE:		NTS	BUILDER'S F	OF: 200440709	VPC VERSION: 24.3.1	22

REQUIREMENTS SPECIFIED BY BUTLER.

Secondary Part Schedule
Mark
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010(FIR) Secondary Part Schedule OSecondary Bracing Schedule
Id Qty Mark No Spaci
1 20 CPBB060108 6'-0" Frame Member Schedule
Part Width Thick. Webthk Depth1
SBX100 8" .2500 .2500 8 1/2" Bolt Schedule Id Qty Grade Bolt Spacing 6'-0" 4'-0" 4'-0" 5'-0" 3'-6" 7'-6" Thick. 0.0880 Detail WS12A2,WS20F2,WS21D5 Part 00108ZS2605413B0 Dia. Length Thick. Out In 1 2 A325 3/4" 2 1/2" - - -00208ZS2605415B0 0.0730 8 1/2" WS12A2, WS20F2, WS21D5 16 4 CPBB040108 0.0730 WS12A2.WS01G2 CPBC040306 0822402415DQ00 0822401412DB0 003082S2802416B0 0822511416D100 0822515414GG00 0.0730 0.0880 0.0980 0.0680 0.0680 0.0790 8 1/2" 8 1/2" 8 1/2" 8 1/2" 8 1/2" 8 1/2" WS12A2, WS01G2 WS12H5, FS25G1 WS01G2 WS01G3, WS20F2, WS21D5 WS01G3, WS01G2 CPBC040306 CPBB050108 CPBA030510 CPBA070510 ERECTION NOTES:

- Jambs not designed for catenary loads.

- Wind beam designed to support stud wall
to parapet height.

- FO's marked with (*) are not by BMC. 10 1/2" 10 1/2" 6 8 CPBA070510 See SEDs: BRR004, BRR005, BRR006, BRR007, BRR008 FS25G1 10 1/2" 0.0680 8 1/2" 8 1/2" WS01G3 0.0880 FS25G1 0.0680 0.0000 0.0880 8 1/2" 8 1/2" 8 1/2" 8 1/2" 8 1/2" 8 1/2" FS25G1 WS12A2,WS01G3 WS12A2,WS12H5 FSX101,FS25F5 10 1/2" 0.0730 FSX101 0.0680 FSX101 0.0880 8 1/2" WS20F9 WS20F9, WS20F2, WS20B2, WS20B8 (A) В Ç D (E) F 0 AWIP HE40 (*) 1W1B0 1W1B1 1W1B2 1W1B3 1W1B4 SECONDARY ELEVATION AT 1 PKC10 GFA106 PG1 JTG1 3 3'-0" 2 2'-6" 1 4'-0" 1 VCC07003090 OPart Mark Key 1 4'-0"
Dimension Key FOR CONSTRUCTION Shape Name = Building - Shape 1, Wall = 1

THIS DRAWING, INCLUDING THE INFORMATION HERERON, REMINIS THE PROPERTY OF
BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (48080) AND NUT (47120)
WO WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.
2 FLANGE BRACES ARE AN INTEGRAL PART OF THE STRUILITY OF THE
STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION
OF WALL AND ROOF SHEETS. THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE D BUTI FR MANUFACTURING **SECONDARY ELEVATION AT 1** 1540 GENESSEE ST. KANSAS CITY, MO 64102 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 BUTLER MIFG.

THE GENERAL CONTINUED AND AND RECEIVED THIS SOULDING IN ACCORDANCE WITH THIS DRAWNS, DETAILS REFERENCED IN THIS DRAWNS, DETAILS REFERENCED IN THIS DRAWNS, ALL APPLICABLE BUTLER MFG. EBECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING. REQUIREMENTS SPECIFIED BY BUTLER. DRAWING SCALE NTS BUILDER'S PO#: 200440709 VPC VERSION: 24.3.1 VPC FILENAME: 24-025448-01

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE

BUILDER: MAR BUILDING SOLUTIONS LLC

LOCATION: Lees Summit Missouri

PROJECT: KR Wholesale

24-025448-01

LDCM / GL PAGE:

23

BUTLER

Butler Manufacturing

REQUIREMENTS SPECIFIED BY BUTLER.
THE BUTLER MFG. ENGINEER'S SEAL DOES
NOT APPLY TO THE PERFORMANCE OR

DESIGN OF ANY OTHER PRODUCT OR

COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE

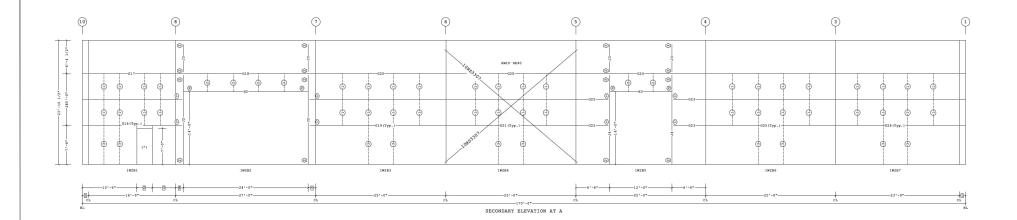
3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.

Secondary Part Schedule Mark Part G16 00408ZS1902416B0 Mark G16 G17 G18 G19 G20 G21 G22 G23 G24 G25 G26 H2 H3 J2 J3 Thick. 0.0680 Detail WS12A2,WS20F2,WS21D5 Depth
8 1/2"
8 1/2"
8 1/2"
8 1/2"
8 1/2"
8 1/2"
8 1/2"
8 1/2"
8 1/2"
8 1/2" 10 1/2" 1'-4 1/2" 2'-10 1/2" 10 1/2" 2'-10 1/2" 0821811416V100 082291141622B0 0.0680 WS12A2,WS01G3 WS01G3 0.0680 WS01G3 WS01G3, WS20F2, WS21D5 WS01G3 WS01G2, WS01G3 WS20F2, WS01G2 WS01G3, WS20F2 082291141622B0 005082S2902416B0 08226114161100 0822711416D4B0 0820602416DG00 0820702416G100 0.0680 0.0680 0.0680 0.0680 0.0680 10 1/2" 0.0680 8 1/2" 0.0790 8 1/2" 0.0680 8 1/2" 0.0680 8 1/2" 0.0790 8 1/2" 0.0730 8 1/2" 0.0730 8 1/2" 0.0730 8 1/2" 08Z30114144400 08Z271141622B0 08Z2611416V3B0 00108DS2400014 00508JS1200015 2'-10 1/2" 1'-4 1/2" 1'-10 1/2" WS01G3, WS20F2 WS01G3 WS01G3 WS12A2, WS01G3 WS20F9 WS20F9 8 1/2" 8 1/2" 8 1/2" 8 1/2" 8 1/2" 8 1/2" 00308JS1702213 WS20F9, WS20F2, WS20B8, WS20H3 00408JS0504015 WS20B6, WS20H3 WS20F9, WS20F2, WS20B2, WS20B8 00608JS1702215

| Secondary Bracing Schedule | Id | Qty | Mark No | Spacing | 1 | 40 | CPBB050108 | 5'-0" | 2 | 6 | CPBA030510 | 3'-6" | 3 | 10 | CPBA070510 | 7'-6" See SEDs: BRR004, BRR005, BRR006, BRR007, BRR008

Bracing Part Schedule Part Qty Length 10RS3307 2 33'-7"

ERECTION NOTE:
- Jambs not designed for catenary loads.
- FO's marked with (*) are not by BMC.





1'-6" 4'-6" 3'-0" 1'-3" 3 4'-6" 3 TSC1
2 3'-0" 2 PG1
1 1'-3" 1 JTG1
Dimension Key Part Mark Key

 UNLESS NOTED, USE 1/2 X 1 1/2 A225T BOLT (49980) AND NUT (47120)
 WO WASHERS. SNUO TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.
 PLANGE BRACES AREA IN TIEGRAL PART OF THE STRULTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION OF WALL AND ROOT SHEETS. 3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.

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

REQUIREMENTS SPECIFIED BY BUTLER.

Shape Name = Building - Shape 1, Wall = 2
THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF
BUTLER MFG. 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 BUTLER MING.

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

FOR CONSTRUCTION

L	וי	1540	GENESSEE ST. KANSAS CITY, MO 64102	SEC	CONDARY ELEVATION AT A				
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01		
				CUSTOMER	E .		DATE:		
				LOCATION:	Lees Summit, Missouri	BUTLER	1/14/2024 DRAWNICHECK:		
				PROJECT:	KR Wholesale	Butler Manufacturing	LDCM / GL PAGE:		
DRAWING SCALE: NTS			NTS	BUILDER'S	PO#: 200440709	VPC VERSION: 24.3.1	24		

VPC FILENAME: 24-025448-01

 Secondary
 Part
 Schedule

 Mark
 Part

 G9
 08226114161180

 G25
 08227114162280

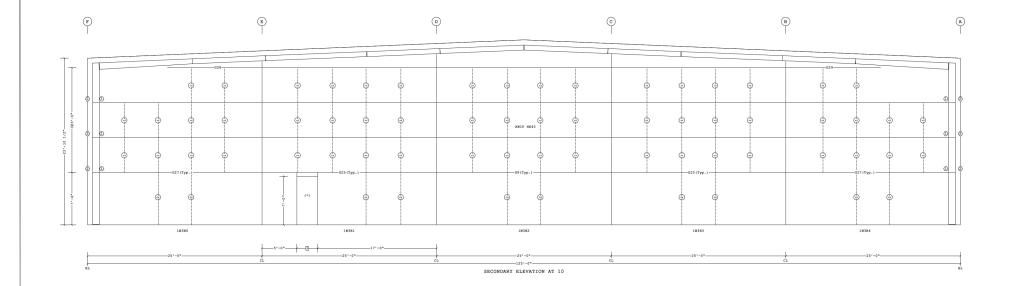
 G27
 08225084160280

 G28
 006082814064160

 G29
 007082814064160
 Osecondary Bracing Schedule

Id Qty Mark No Spacing
1 56 CPBB050108 5'-0"
2 10 CPBA070510 7'-6" Part Schedule Thick. Depth 08226114161180 0.0680 8 1/2" 08225184162280 0.0680 8 1/2" 0060082180641600 0.0680 8 1/2" 0070828140641600 0.0680 8 1/2" Detail WS01G3 WS01G3 WS12A2,WS01G3 WS01G3,WS04C2 WS04C2,WS01G3 Lap 10 1/2" 1'-4 1/2" 1'-4 1/2" 10 1/2" 10 1/2" See SEDs: BRR004, BRR005, BRR006 BRR007, BRR008

ERECTION NOTE:
- FO's marked with (*) are not by BMC.



1 3'-0" 1 VCC07003090
Dimension Key Part Mark Key

UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (48989) AND NUT (47120)
 WO WASHERS, SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS,
 FLANCE BRACES ARE AN INTEGRAL PART OF THE STRUILTY OF THE
 STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION
 OF WALL AND BOOF SHEETS.
 REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.

2 GFA106

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

REQUIREMENTS SPECIFIED BY BUTLER.

Shape Name = Building - Shape 1, Wall = 3
THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF
BUTLER MFG, IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING BESCRIBED IN THE
APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT
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THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BULLDING IN ACCORDANCE WITH THIS DRAWING, DETAIL REFERENCED IN THIS DRAWING, DETAIL REFERENCED IN THIS DRAWING, DETAIL REPLEASE BULL REFERENCED IN THIS DRAWING, ALL APPLICABLE BULL THE WIFE RECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRANCH TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRANCH TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRANCH TO PROPER THE TEMPORARY BRANCH T

	FOR CONSTRUCTION
BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102	SECONDARY ELEVATION AT 10

D		1540	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	SECONDARY ELEVATION AT 10					
REV:	DATE:	BY:	DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC					
				CUSTOMER:	BUTLER				
				LOCATION: Lees Summit, Missouri	BUILER				
				PROJECT: KR Wholesale	Butler Manufacturing				
DRAWING	SCALE:		NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1				
	And the second s								

LDCM / GL 25

JOB #: 24-025448-01

1/14/2024

 Secondary
 Part
 Schedule

 Mark
 Part

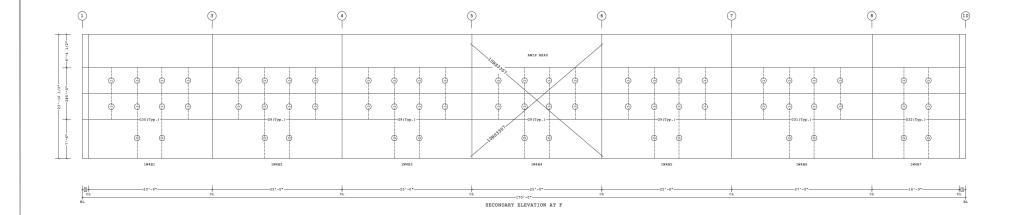
 G9
 08226114161180

 G30
 08225114161180

 G31
 08228114161180

 G32
 0821811416V1A0
 Osecondary Bracing Schedule

Id Qty Mark No Spacing
1 52 CPBB050108 5'-0"
2 14 CPBA070510 7'-6" Bracing Part Schedule Part Qty Length 10RS3307 2 33"-7" Thick. Depth 0.0680 8 1/2" 0.0680 8 1/2" 0.0680 8 1/2" 0.0680 8 1/2" Lap 10 1/2" 10 1/2" 10 1/2" 10 1/2" Detail WS01G3 WS12A2,WS01G3 WS01G3 2 14 CPBA070510 See SEDs: BRR004, BRR005, BRR006 BRR007, BRR008 WS12A2,WS01G3





1 1'-3"
Dimension Key

UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49980) AND NUT (47120)
WO WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.
 PLANGE BRACES AREA IN INTEGRAL PART OF THE ATBILITY OF THE
STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION
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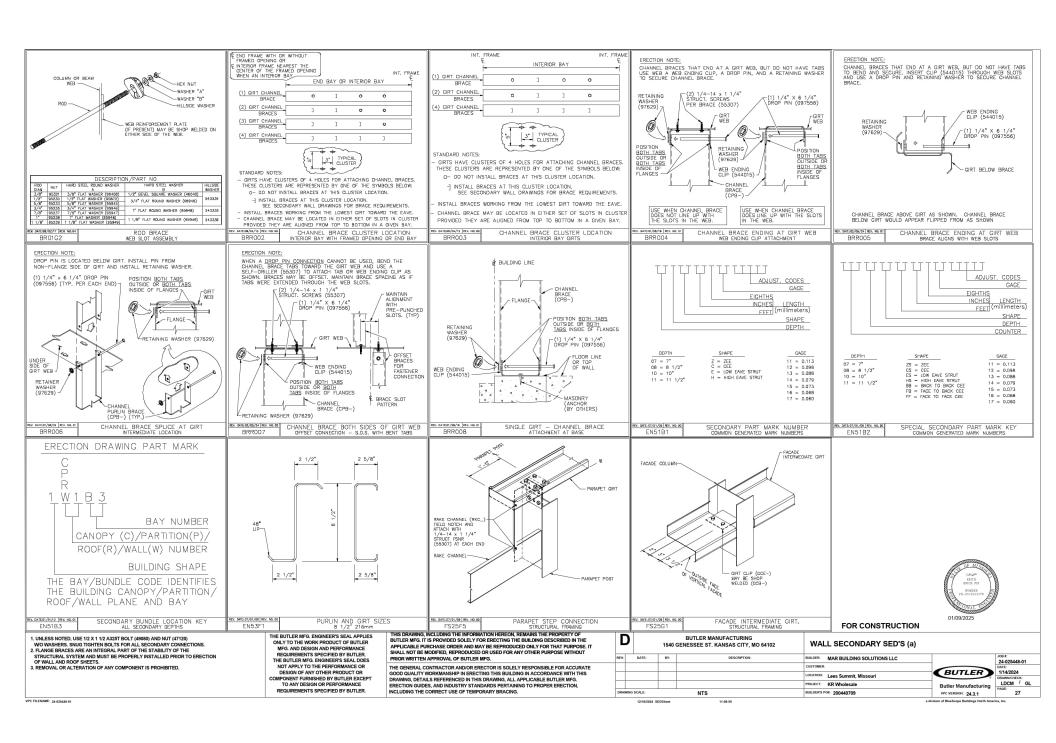
REQUIREMENTS SPECIFIED BY BUTLER.

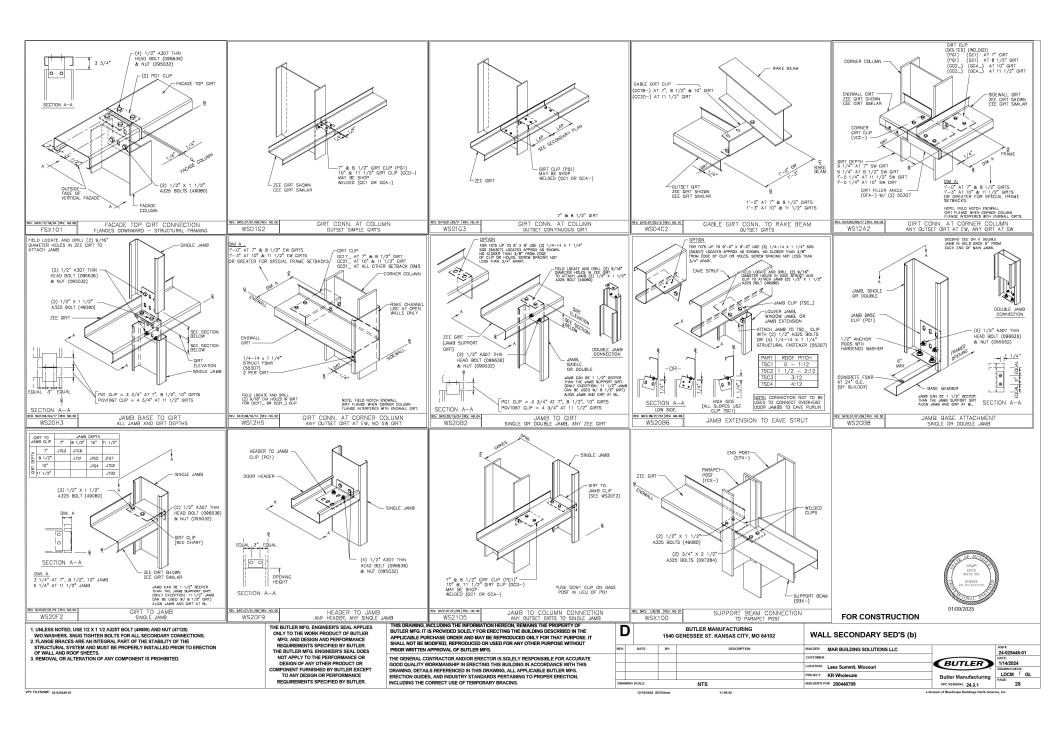
Shape Name = Building - Shape 1, Wall = 4
THIS DRAWING, INCLUDING THE INFORMATION HEREOR, REMAINS THE PROPERTY OF
BUTLER MFG, IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING BESCRIBED IN THE
APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT
SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT
PRIOR WRITTEN APPROVAL OF BUTLER MFG.

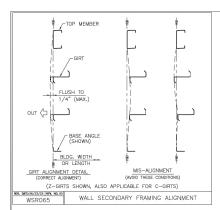
THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, ETAIL SPETERNEED IN THIS DRAWING, ETAIL SPETERNEED IN THIS DRAWING, ALL APPLICABLE BUILDILG WIFE, ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRANCH.

FOR CONSTRUCTION

D		1540	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	SEC	ONDARY ELEVATION AT F		
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01
				CUSTOMER			DATE:
				LOCATION:	Lees Summit, Missouri	(BUTLER)	1/14/2024 DRAWNICHECK:
				PROJECT:	KR Wholesale	Butler Manufacturing	LDCM / G
DRAWING	SCALE:		NTS	BUILDER'S I	^{20#} : 200440709	VPC VERSION: 24.3.1	PAGE: 26



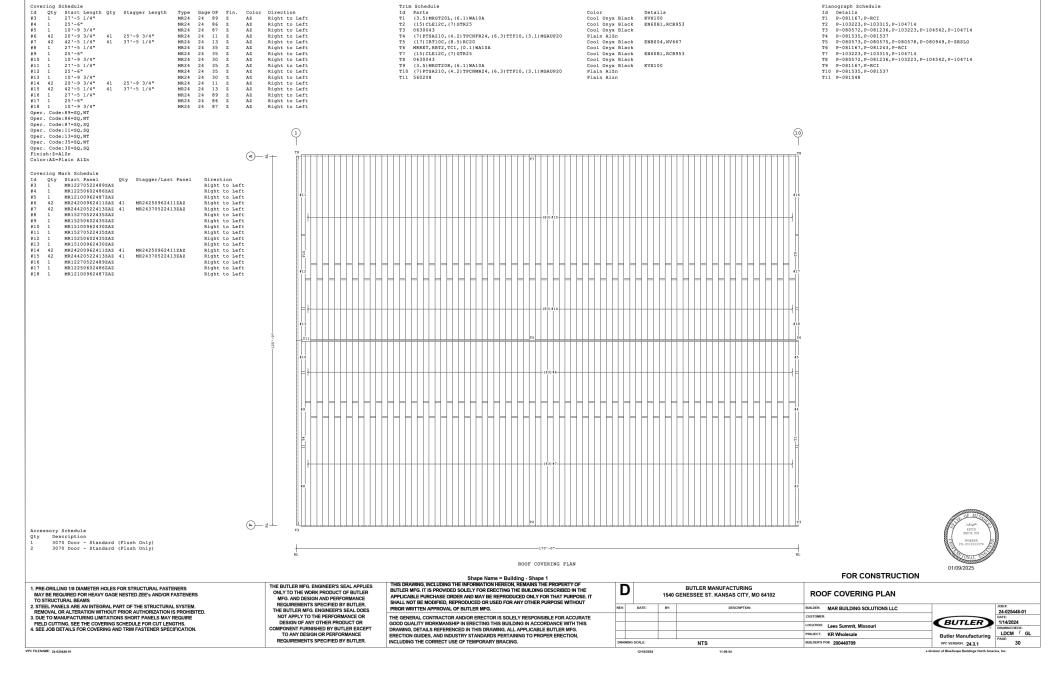






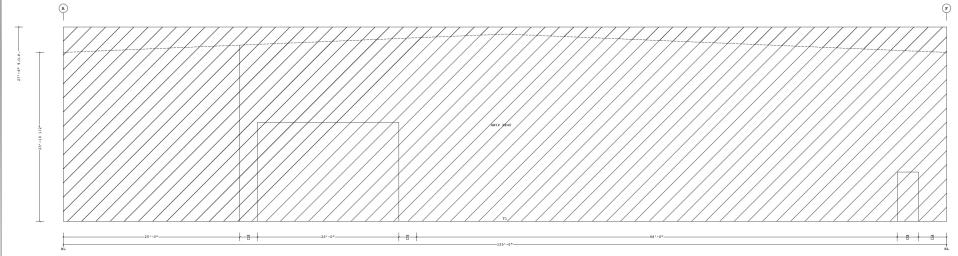
						01/03/2023		
					FOR CONSTRUCTION			
THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE	THIS DRAWNING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF BUTLER MFG, IT IS PROVIDED SOLELY FOR REFCINIG THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED ON USED FOR ANY OTHER PURPOSE WITHOUT	D)	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102	WALL SECONDARY SED'S (c)			ı
REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES	PRIOR WRITTEN APPROVAL OF BUTLER MFG.	REV:	DATE:	BY: DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01	
	THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE				CUSTOMER:	PUT ED	DATE: 1/14/2024	
DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT	GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG.				LOCATION: Lees Summit, Missouri	BUTLER	DRAWNICHECK:	
	ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION,				PROJECT: KR Wholesale	Butler Manufacturing	LDCM / GL	
REQUIREMENTS SPECIFIED BY BUTLER.	INCLUDING THE CORRECT USE OF TEMPORARY BRACING.	DRAW	ING SCALE:	NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1	29	

VFCRUME: 2425444-01 19229 19239 a division of Blandscape Indicating Bard Aperica, In



Trim Schedule Id Parts T1 (5)BA125 Details WCX100,WSR065 Color Galvalume

ERECTION NOTE:
Farapet cap trim (14-CTFV8E10 - Cool Onix Black) is
provided as optional to be used at builder's earliest
convenience.
Base angle is proivided for builder to field work at
NBBMC wall as required.



COVERING ELEVATION AT 1



1. PRE-DRILLING 1/8 DIAMETER HOLES FOR STRUCTURAL FASTENERS
MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE's AND/OR FASTENERS
TO STRUCTURAL REAMS

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 LUITATIONS SHORT PANELS MAY REPORT
FIELD CUTTING, SEE THE COVERING SCHEDULE FOR CUT LENGTHS.
4. SEE JOB DETAILS FOR COVERING AND TRIM FASTEMER SPECIFICATION.

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

REQUIREMENTS SPECIFIED BY BUTLER.

THIS DRAWNIN, INCLUDING THE INFORMATION HEREON, ERMANS THE PROPERTY OF BUTLER MIFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING SECRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED OR MAY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF BUTLER MIFG.

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BULLDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCE OF ITHIS DRAWING, DETAIL REPERENCE OF ITHIS DRAWING, DETAIL REPERENCE OF ITHIS DRAWING, ALL APPLICABLE BUILDER WIFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRANCH.

FOR CONSTRUCTION

D)	1540	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	cov	/ERING ELEVATION AT 1		
	REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01
	П				CUSTOMER	:		DATE:
	П				LOCATION:	Lees Summit, Missouri	BUTLER	1/14/2024 DRAWNICHECK:
					PROJECT:	KR Wholesale	Butler Manufacturing	LDCM / GL
	DRAW	VING SCALE:		NTS	BUILDER'S	^{20#} : 200440709	VPC VERSION: 24.3.1	PAGE: 31

VPC FILENAME: 24-025448-01

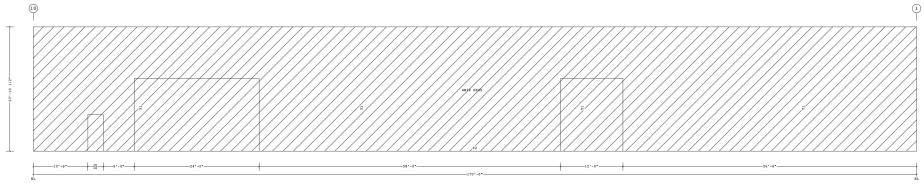
3 4'-0" 2 3'-0" 1 2'-6"

Trim Schedule Id Parts T1 0008738,4CE75,(2.5)CP410 T2 (6.8)BA125 Color Cool Onyx Black Galvalume

Details KV847 WCX100,WSR065

Planograph Schedule
Id Details
T1 P-105224,P-105225,P-105228
T2 ----

ERECTION NOTE:
Base angle is proivided for builder to field work as required.



COVERING ELEVATION AT A



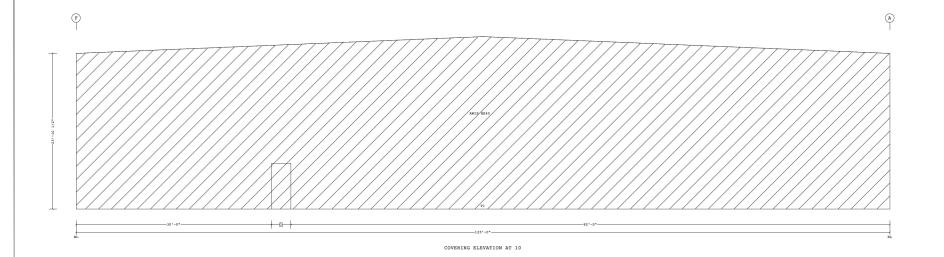
3'-0" 1 3'-0"
Dimension Key Shape Name = Building - Shape 1, Wall = 2
THIS DRAWING, INCLUDING THE INFORMATION REPEOR, REMAINS THE PROPERTY OF
BUTLER MFG, IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING BESCRIBED IN THE
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MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE-S ANDIOR FASTENERS
TO STRUCTURAL BEAMS
TO STRUCTURAL BEAMS
REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.
SIDE TO MANAFACTURING LIMITATION SHORT PRIOR ELS MAY REQUIRE
FIELD CUTTING, SEE THE COVERING SCHEDULE FOR CUT LENGTHS.
A SEE JOB DETAILS FOR COVERING AND TRIM FASTERER SPECIFICATION. D BUTLER MANUFACTURING COVERING ELEVATION AT A 1540 GENESSEE ST. KANSAS CITY, MO 64102 BUILDER: MAR BUILDING SOLUTIONS LLC JOB #: 24-025448-01 THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, ETAIL SPETERNEED IN THIS DRAWING, ETAIL SPETERNEED IN THIS DRAWING, ALL APPLICABLE BUILDILG WIFE, ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRANCH. BUTLER 1/14/2024 LOCATION: Lees Summit, Missouri Butler Manufacturing DRAWNICHECK:
LDCM / GL
PAGE:
20 PROJECT: KR Wholesale REQUIREMENTS SPECIFIED BY BUTLER. DRAWING SCALE BUILDER'S PO#: 200440709 NTS VPC VERSION: 24.3.1 32

Trim Schedule Id Parts T1 (5)BA125

Color Galvalume

Details WCX100,WSR065

ERECTION NOTE:
Base angle is proivided for builder to field work as required.



3'-0"

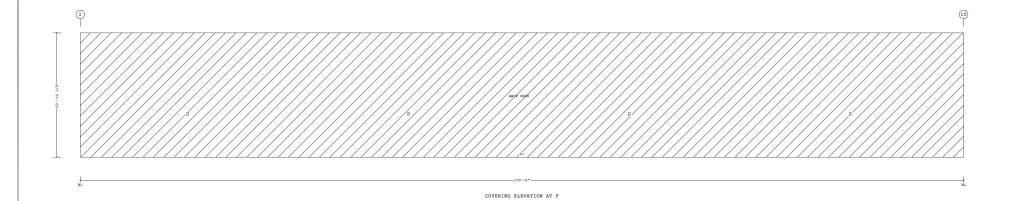


1 3'-0"
Dimension Key Shape Name = Building - Shape 1, Wall = 3
THIS DRAWING, INCLUDING THE INFORMATION REPEOR, REMAINS THE PROPERTY OF
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MAY BE REQUIRED FOR HEAVY GAGE NESTED ZEE'S ANDOR FASTENERS
TO STRUCTURAL BEAMS
TO STRUCTURAL BEAMS
REMOVAL OR ALTERATION WITHOUT PRIDER AUTHORIZATION IS PROHIBITED.
3. DUE TO MANUFACTURING LUMITATIONS SHORT PANELS MAY REGUE
FIELD CUTTING, SEE THE COVERING SCHEDULE FOR CUT LENGTHS.
4. SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION. BUTLER MANUFACTURING D **COVERING ELEVATION AT 10** 1540 GENESSEE ST. KANSAS CITY, MO 64102 BUILDER: MAR BUILDING SOLUTIONS LLC JOB #: 24-025448-01 THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, ETAIL SPETERNEED IN THIS DRAWING, ETAIL SPETERNEED IN THIS DRAWING, ALL APPLICABLE BUILDILG WIFE, ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRANCH. BUTLER 1/14/2024 LOCATION: Lees Summit, Missouri Butler Manufacturing DRAWNICHECK:
LDCM / GL
PAGE:
22 PROJECT: KR Wholesale REQUIREMENTS SPECIFIED BY BUTLER. DRAWING SCALE: BUILDER'S PO#: 200440709 33 NTS VPC VERSION: 24.3.1

Details WCX100,WSR065 KV847

Planograph Schedule
Id Details
T1 --T2 P-105224,P-105225,P-105228

ERECTION NOTE:
Base angle is proivided for builder to field work
as required.





nape	Name	= Building -	Shape	1, Wall = -	1

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.	

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

REQUIREMENTS SPECIFIED BY BUTLER.

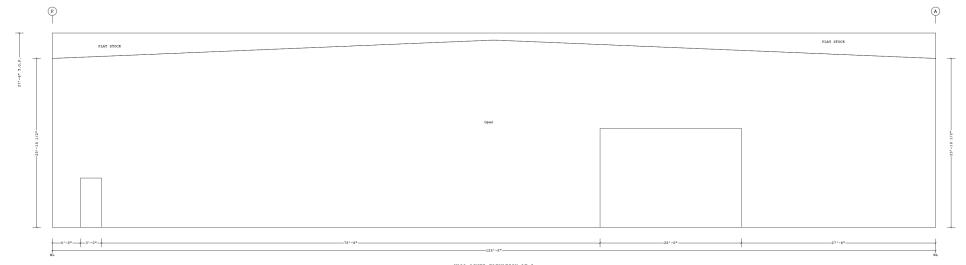
Shape Name = Building - Shape 1, Wall = 4
THIS DRAWING, INCLUDING THE INFORMATION HEREOR, REMAINS THE PROPERTY OF
BUTLER MRG, IT IS PROVIDED SOLELY FOR EBECTING HE BUILDING DESCRIBED IN THE
APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT
SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT
PRIOR WRITTEN APPROVAL OF BUTLER MRG.

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BULLDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCE OF ITHIS DRAWING, DETAIL REPERENCE OF ITHIS DRAWING, DETAIL REPERENCE OF ITHIS DRAWING, ALL APPLICABLE BUILDER WIFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRANCH.

FOR CONSTRUCTION

					FOR CONSTRUCTION		
)	1540	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	cov	/ERING ELEVATION AT F		
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01
				CUSTOMER	:		DATE:
				LOCATION:	Lees Summit, Missouri	BUTLER	1/14/2024 DRAWNICHECK:
				PROJECT:	KR Wholesale	Butler Manufacturing	LDCM / GL
DRAW	WING SCALE:		NTS	BUILDER'S I	^{20#} : 200440709	VPC VERSION: 24.3.1	PAGE: 34

ERECTION NOTE:
Flat stock is provided for the builder
to use as backer panel, flat stock
provided will cover 330 sq. ft. approx.
Material provided:
(11) FSTKB10 - Plain AlZn



WALL LINER ELEVATION AT 1 (View from inside Building)



1. PRE-DRILLING 1/8 DIAMETER	R HOLES FOR STRUCTURAL FASTENERS
MAY BE REQUIRED FOR HEAT	VY GAGE NESTED ZEE's AND/OR FASTENERS
TO STRUCTURAL REAMS	

TO STRUCTURAL BEAMS
2. STEEL PARIES ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM.
REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.
3. DUE TO MANDFACTURING UINTATIONS SHORT PARIES. MAY REPORT
FIELD CUTTING, SEE THE COVERING SCHEDULE FOR CUT LENGTHS.
4. SEE JOB DETAILS FOR COVERING AND TRIM FASTEMER SPECIFICATION.

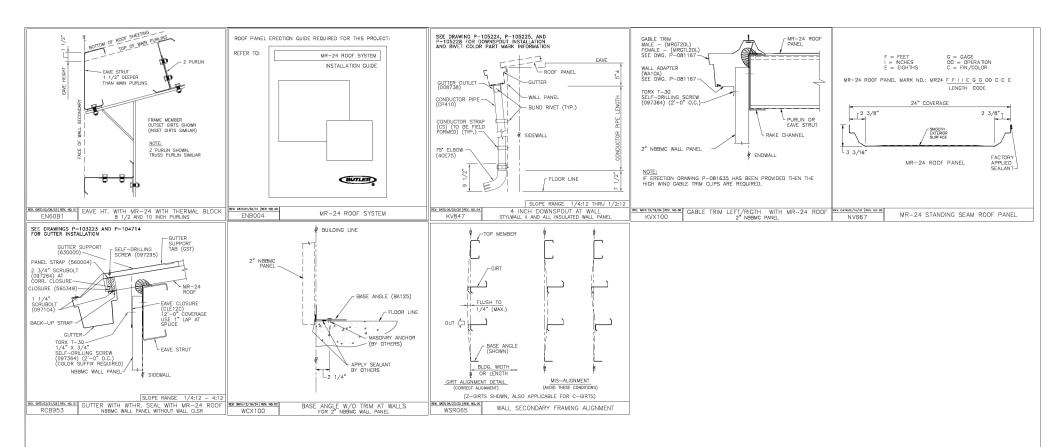
THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIEMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE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

Shape Name = Building - Shape 1, Wall = 1
THIS DRAWING, INCLUDING THE INFORMATION HEREOR, REMAINS THE PROPERTY OF
BUTLER MFG, IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE
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SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT
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THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BULLDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCE OF ITHIS DRAWING, DETAIL REPERENCE OF ITHIS DRAWING, DETAIL REPERENCE OF ITHIS DRAWING, ALL APPLICABLE BUILDER WIFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRANCH.

FOR CONSTRUCTION

D)	1540	BUTLER MANUFACTURING GENESSEE ST. KANSAS CITY, MO 64102	WALL LINER ELEVATION AT 1		
REV:	DATE:	BY:	DESCRIPTION:	BUILDER: MAR BUILDING SOLUTIONS LLC		JOB #: 24-025448-01
				CUSTOMER:		DATE:
				LOCATION: Lees Summit, Missouri	BUTLER	1/14/2024 DRAWNICHECK:
				PROJECT: KR Wholesale	Butler Manufacturing	LDCM / GL
DRAW	NG SCALE:		NTS	BUILDER'S PO#: 200440709	VPC VERSION: 24.3.1	PAGE: 35





24-025448-01

LDCM / GL

36

1/14/2024

FOR CONSTRUCTION

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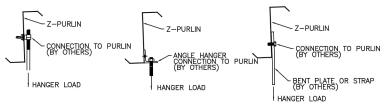
VPC FILENAME: 24-025448-01

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THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKINASHIP IN ERECTING THIS BUILLING IN ACCORDINGE WITH THIS DRAWING, DETAILS REFERENCED IN HIS DRAWING, ALL APPLICABLE BUILLER MFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BREACH.

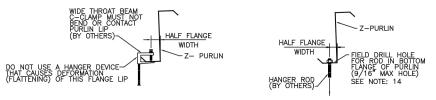
)	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		cov	/ERING & TRIM SED'S	
REV:	DATE:	BY:	DESCRIPTION:	BUILDER:	MAR BUILDING SOLUTIONS LLC	
				CUSTOMER	: ·	
П				LOCATION:	Lees Summit, Missouri	(BUTLER)
				PROJECT:	KR Wholesale	Butler Manufacturing
DRAW	VING SCALE:		NTS	BUILDER'S I	°0#: 200440709	VPC VERSION: 24 3 1

12/18/2024 SEDSheet 11:09:05 a division of Blue-Scope Buildings North America, Inc.



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

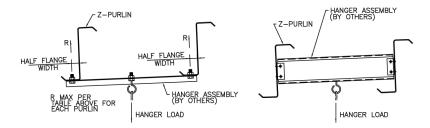
MAXIMUM LOAD SUSPENDED FROM BOTTOM FLANGE (LOCATED AT HALF-FLANGE WIDTH)						
THICKNESS	MAX LOAD	THICKNESS	MAX LOAD			
0.060"	110lbs	0.088"	200lbs			
0.068"	120lbs	0.098"	250lbs			
0.073"	140lbs	0.030	250105			
0.079"	180lbs	0.113"	250lbs			

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 5001bs 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 \approx 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.

P MAX= 0.5wi P MAX= 0.4wi P MAX= 0.25wi

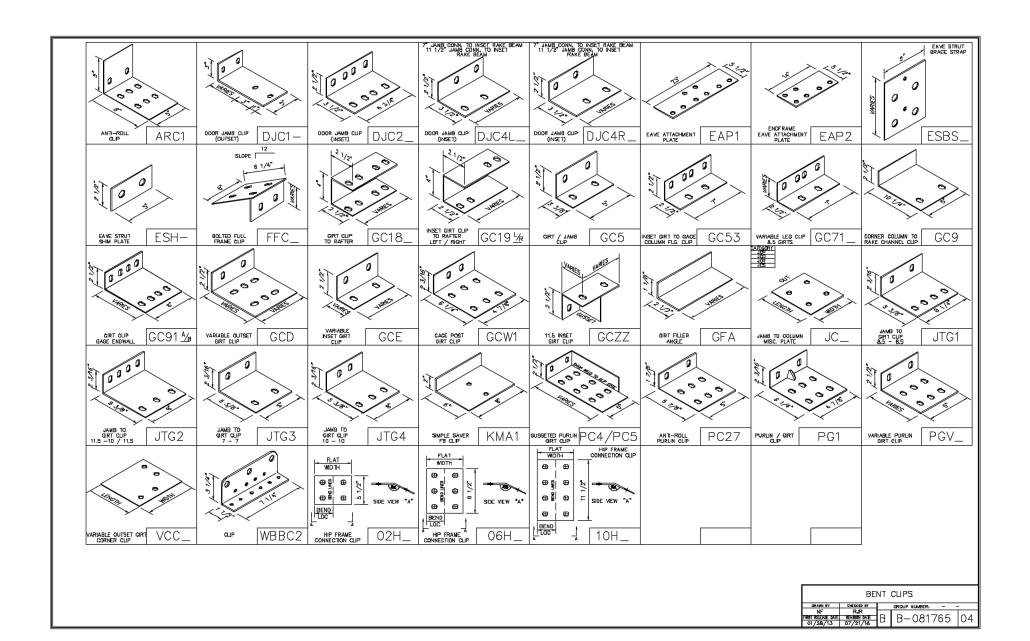
EXAMPLE: A PIPE IS SUSPENDED FROM A PURLIN AT 3 LOCATIONS EQUALLY SPACED BAY SPACING = 24'-0'' PURLIN SPACING = 5'-0'' SPECIFIED COLLATERAL LOAD = 5 PSF W = 5 PSF x 5' = 25 PLF L = 24'-0''

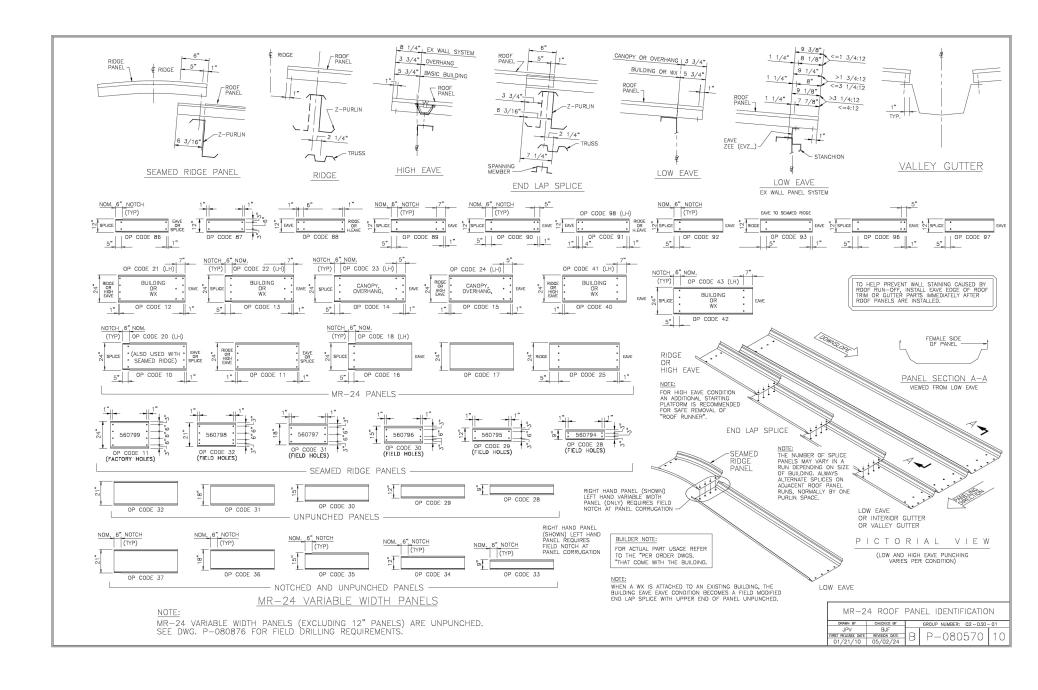
W = 5 PSF x 5' = 25 PLF L = 24'-0''PMAX = 0.25 x 25 PLF x 24'-0'' = 150 LBS AT EACH LOCATION THE PURLIN CAN SUPPORT 3 LOADS UP TO 150 LBS EACH. PICK A HANGER CONNECTION CAPABLE OF SUPPORTING ACTUAL APPLIED LOADS.

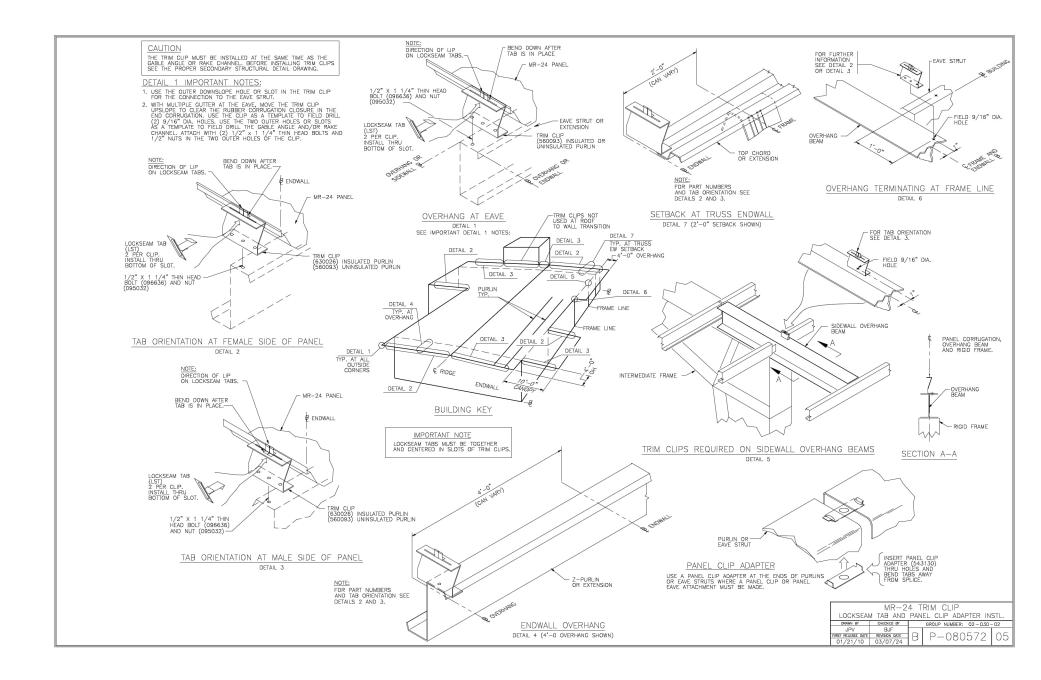
- 3. FOR LOADS GREATER THAN 250 lbs, PURLINS MUST BE "BLOCKED" AT LOCATION OF LOAD TO PREVENT PURLIN ROTATION.
- 4. EQUIPMENT LOADS SHOULD BE OBTAINED FROM CERTIFIED EQUIPMENT DRAWINGS AND MANUFACTURER'S DATA.
- 5. Z-PURLINS WILL DEFLECT UNDER SNOW AND WIND LOADS. ITEMS THAT MAY BE DAMAGED DUE TO DEFLECTIONS, (EX. GAS LINES), VERIFY THAT PIPES OR SUSPENDED EQUIPMENT ARE COMPATIBLE WITH EXPECTED DEFLECTION RANGES (±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 EARTHOUAKES.
- 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 MIJOR 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

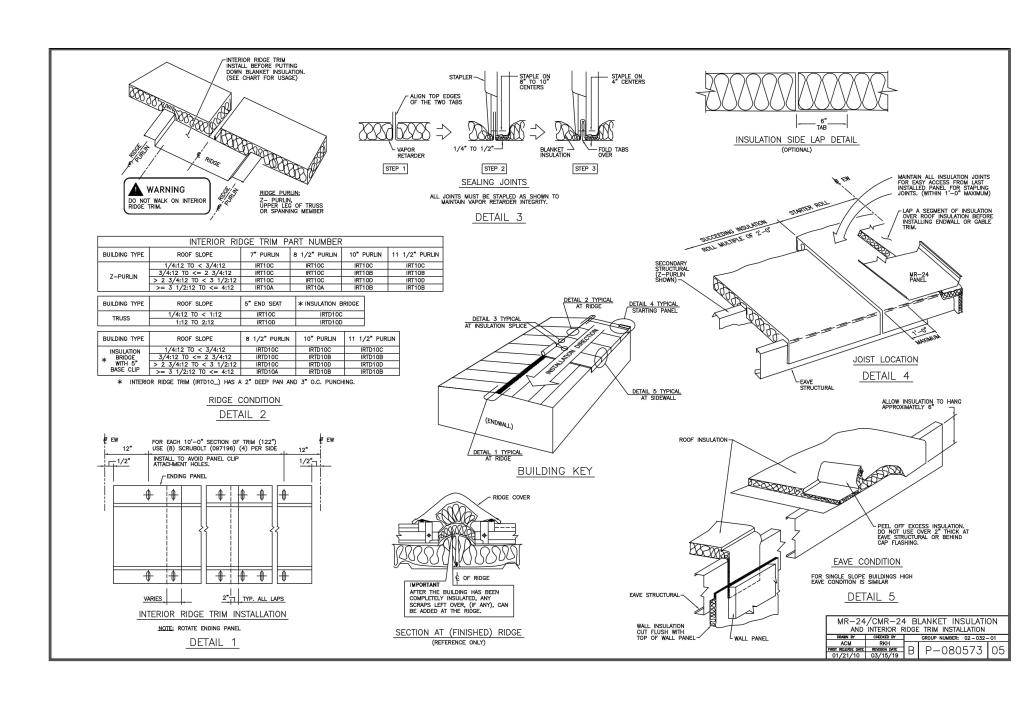
CONCENTRATED LOADS ON ROOF
Z-PURLIN HANGER DETAILS

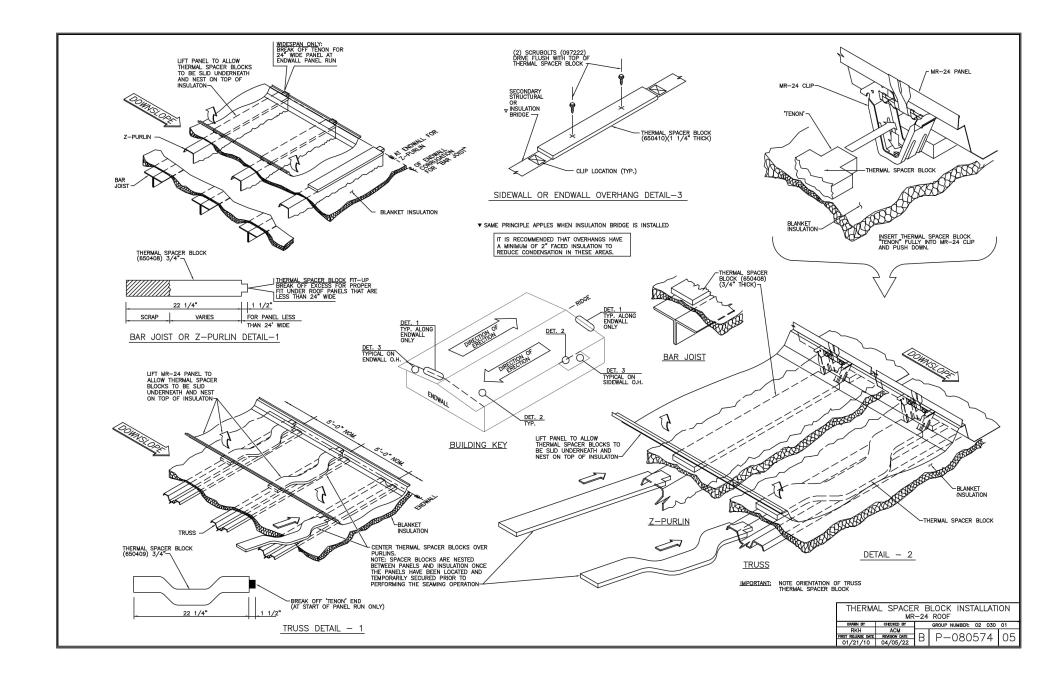
| ORANN BY | CHECKED BY | GROUP NUMBER: 80-054-01 | REVERITT | REBENTON | O2/26/10 | O2/26/20 | B | B-081465 | O9

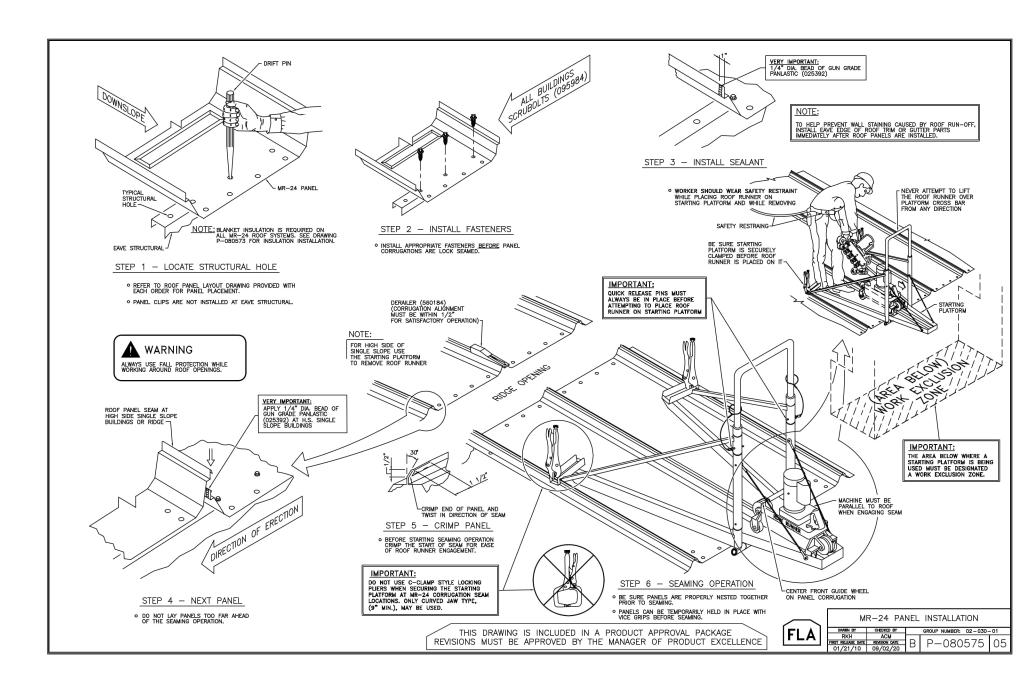


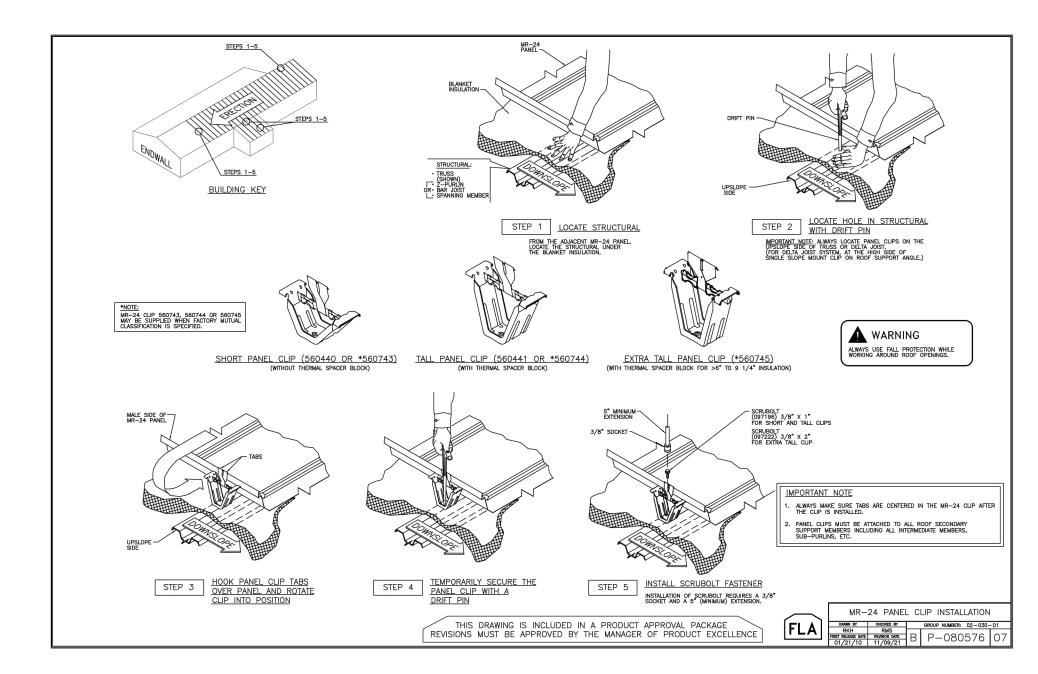


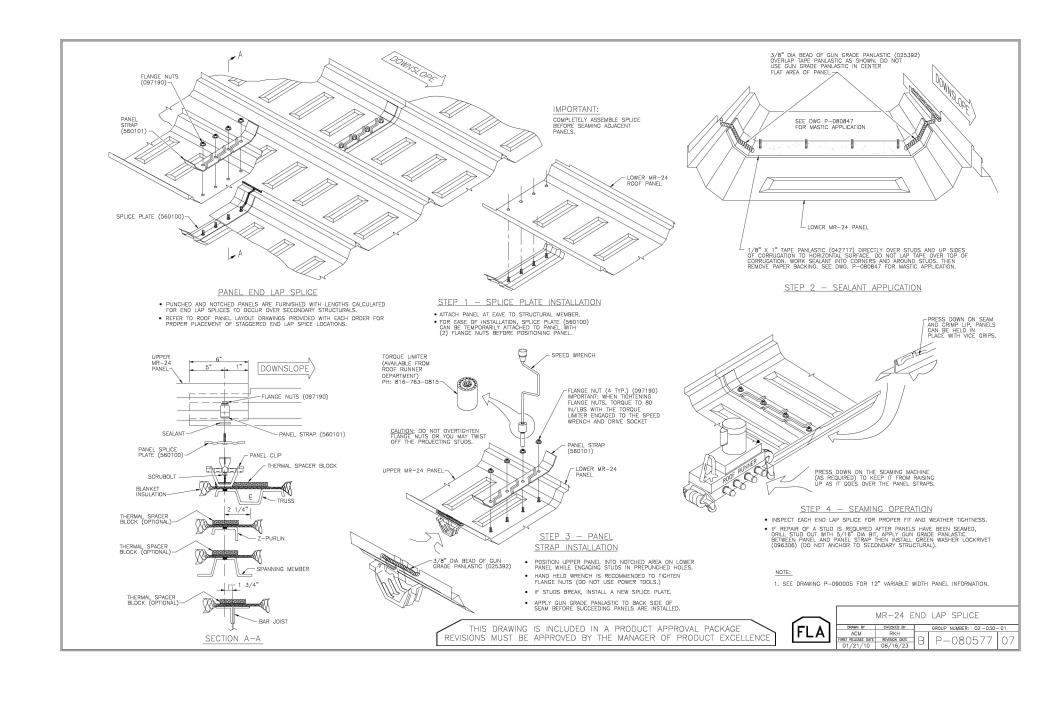


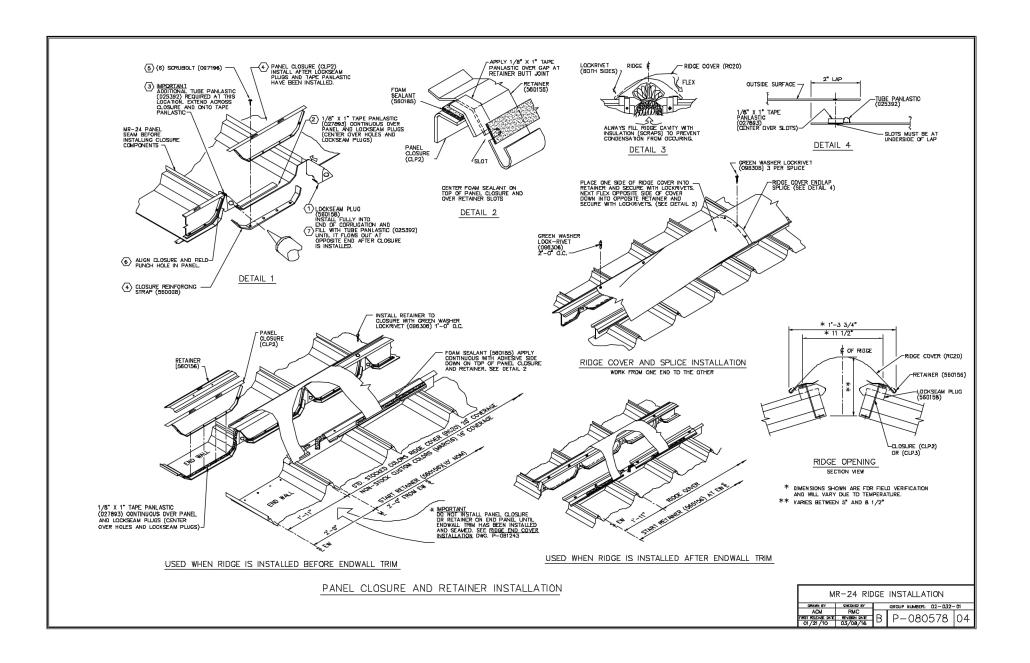


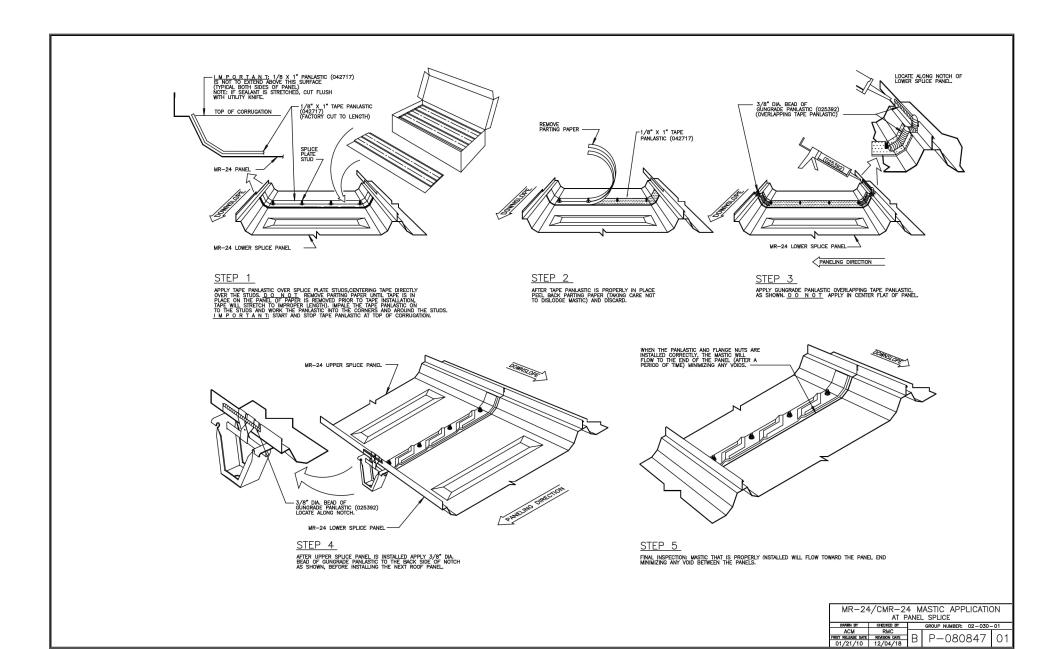


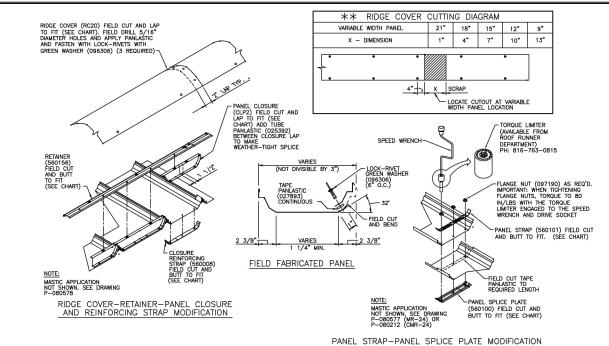












			PANEL	ING COMP	ONENTS CL	JTTING DIAC	GRAM CHART
S T A	WIDTH	PANEL CLOSURE (CLP2)	PANEL STRAP (AT SPLICE) (560004) (5600101) (560004) (5600112) (560004) (5600012) (5600004) (5600008) (5600008) (5600008) (5600008) (5600008) (5600008)			** RIDGE RETAINER (560156) 10'-0" LENGTHS (TYP. BOTH SIDES)	
N D A R D	24"	(SEE NOTÉ: 1)	(SEE NOTE: 2) (SEE NOTE: 2) (SEE NOTE: 2) (SEE NOTE: 2) [BEFORM BEFORM BEFORM		(SEE NOTE: 2) 24° PNL. 24° PNL. 24° PNL.		
٧	21"	8 1/4" 8 1/4" 1 1/2" SCRAP		7 1/2*3*7 SCRAP	1/2		24* PNL 21* PNL 24* PNL 8* 43* SCRAP
R	18"	6 3/4* 6 3/4* 4 1/2* SCRAP		7 1/2 6* SCRA	4 1/2*		24" PNL 24" PNL 24" PNL 8" 6" SCRAP
A	15"	8 1/4* SCRAP 7 1/2* 2 1/4*		7 1/2* 9 SCF	1 1/2"		24" PNL 24" PNL 24" PNL 8" 9" SCRAP
L	12"	SEE DRAW	/ING P-09	0005 FOR	BLE WIDTH	PANEL INFORMATION	
E	9"	SCRAP 2 1/4" 13 1/2" 2 1/4"		1 1/2" 15" SCRAF	JŁ1 1/2"		24" PNL """ 9" PNL """ 24" PNL """ 8" 15" SCRAP

PANEL HOLE PATTERN DIAGRAM * LONGITUDINAL DIMENSIONS									
	RIDGE	EAVE	SPLICE	SPLICE					
		BUILDING/WX 6"1"	(HIGH END)	(LOW END)					
PANEL WIDTH		санору/о.н. 4"1"			TRANSVERSE DIMENSIONS				
WIDTH	1"	-111-	5*	1"	DIMENSIONS				
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2	SEE DRAW	NG P-090005 FO	R 12" VARIABLE	WIDTH PANEL IN	FORMATION				
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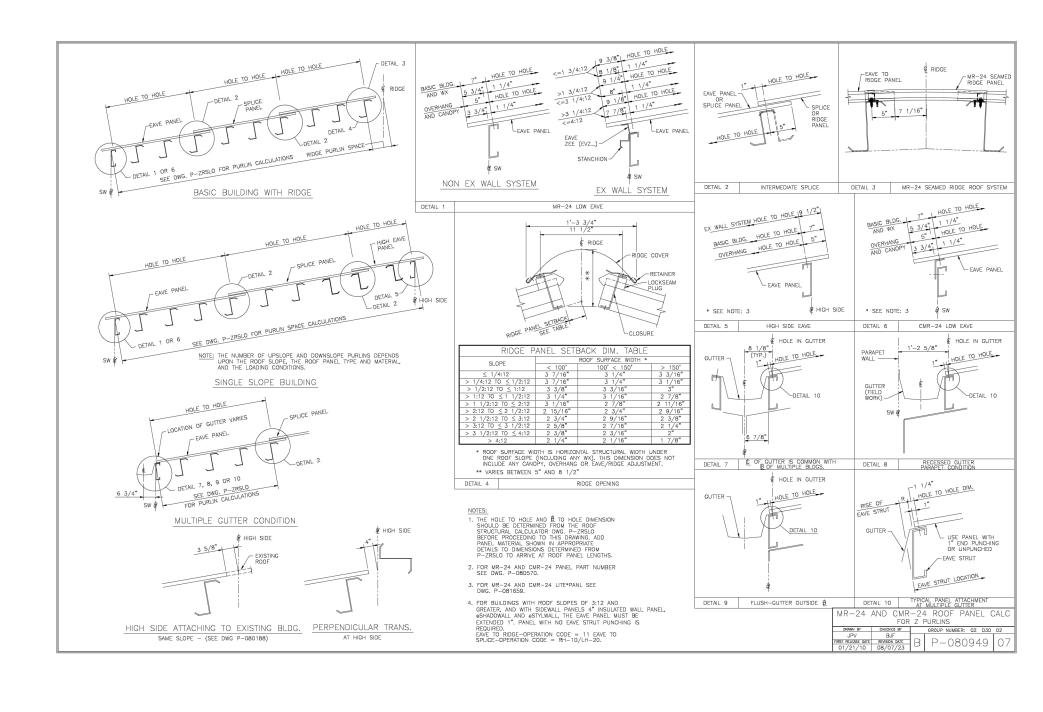
 \star all field drilled holes 5/16" diameter longitudinal hole location dimensions are critical errors in field drilling location will accumulate and cause ridge fit—up difficulty.

** THE RIDGE COVER/RETAINER CUTTING DIAGRAM IS ONLY APPLICABLE TO A SINGLE RUN OF THE 12" VARIABLE WIDTH PANEL LOCATED WITH IN THE INTERIOR OF THE BUILDING. CUTTING DETAIL IS NOT APPLICABLE TO MULTIPLE ADJACENT RUNS OR TO A SINGLE RUN OF 12" PANELS LOCATED AT THE CHOWALLS OF THE ROOF.

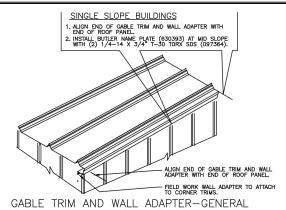
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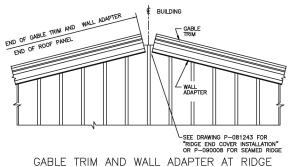
1. CUT PANEL CLOSURE AS SHOWN AND LAP 1 1/2".
2. CUT PARTS AS SHOWN AND BUTT TOGETHER.

MR-24/0	CMR-24	VAR	IABLE	WIDTH	PAN	NELS
	FIELD	WOR	K DETA	ILS		
DRAWN BY	CHECKED BY		GROUP N	UMBER: 02	- 030-	-01
ACM	RMC	_				
FIRST RELEASE DATE		R	1 P-0	38087	76	103
01/21/10	08/06/18	ט	l ' '	5000,		00



CATECORY	DRAWING TITLE	DWG. NO.	CATECORY	DRAWING TITLE	DWG, NO.	CATEGORY	DRAWING TITLE	DWG. NO.	CATEGORY	DRAWING TITLE	DWG. ND.
	MR-24 ROOF SYSTEM ERECTION MANUAL	P-004797		WIDE GUTTER, ASSELY, AND COMP'NTS.	P-DB00B2		WALL PNL CALC, (ROOF TO WALL TRANS,)	P-080818		THERMAL SPACER BLOCK INSTALLATION	P- 080574
1 1	MR-24 WIDTH ADDITION TO EXISTING BLDG.		1	WIDE GUTTER INSTALLATION		-	FLEXIBLE SEAL INSTALLATION	P-081525	1	SKY-WEB PRODUCT DETAILS	P-080940
	MAXIMUM 50 FT. SAME SLOPE	P-080188		WITHOUT WEATHERSEAL	P-DB00B8		STEPPED ROOF OR ROOF TO WALL TRANS.)			SKY-WEB INSTALL ON BLDG, STRUCT,	P-080941
	MR-24 ROOF PANEL IDENTIFICATION	P-080570		WIDE GUTTER WITH WEATHERSEAL	P-080089		SUPPORT MEMBER INSTALL (STEPPED ROOF)	P-081526	-	SKY-WEB ATTACHMENT DETAILS	P-080942
	MR-24 TRIM CLIP LOC. LOCKSEAM TAB	P-080572		MR/CMR-24 WEATHERSEAL FOR LOCAL TRIM	P-080377		STEPPED ROOF FLASH'G INSTALLATION	P-081528	-	SKY-WEB ASSEMBLY DAMAGE	P-080950
1 1	AND PNL CLIP ADAPTER MR-24 PANEL INSTALLATION	P-080575	1	MR/CMR-24 HIGH EAVE PNL CLOSURE FOR LOCAL TRIM	P-080378		END COVER INSTALLATION PERP. ROOF TRANSITION	P-081530		IFCURB INSTALLATION PROCEDURES	P-081153
	MR-24 PANEL CLIP INSTALLATION	P-080578	1	MR/CMR-24 RIDGE TRANSITION AND EXTENSION	P-080583	1	PARALLEL TRANS SUPT ANGLE INSTALL	P-081531		IFOURS INSTALLATION PROCEDURES	
	MR-24 END LAP SPLICE	P-080577	l '	MR/OMR-24 DRIP ANGLE INSTALL	P-080720		(CMR-24 AND UN-INSUL PURLIN W/ MR-24) SHORT PARALLEL TRANSITION		-	DIVERTER PLATE AND CURB	P-DB1154
1 1	MR-24 RIDGE INSTALLATION	P-060578	1	MR/CMR-24 WEATHERSEAL FOR LCCAL TRIM	P-080802		PANEL INSTALLATION	P-081532		IFCURE INSTALLATION ELEVATED FRAME AT CARRY BEAMS	P- DB1 654
	MR/CMR-24 HAND SEAMER INSTRUCTIONS	P-08060D	1	GABLE TRIM AND WALL ADAPTER	P-D81167		PARALLEL TRANS. SUPT ANGLE INSTALL (INSULATED PURLIN)	P-D81534		IFOURE INSTALLATION	P- 081655
	MR/CMR-24 VALLEY FLASH, PNL, PREP.	P-080783]	INSTALLATION (WITH RIDGE ASSEMBLY) INSIDE CORNER TRIM INSTALLATION-	-	-	TALL PARALLEL TRANSITION		-	DOUBLE WALL - PURLIN CUTTING REQ*D	P-081655
	MR/CMR-24 VALLEY FLASH, PARTS INSTALL.	P-080784		NARROW CUTTER TO CABLE TRIM	P-081235		PANEL INSTALLATION	P-081535		IFCURB INSTALLATION DOUBLE WALL — NO PURLIN CUTTING RED*D	P-081656
	MR/CMR-24 VALLEY FLASH. DETAILS	P-080785		NARROW GUTTER CORNER CAP INSTALL	P-081236		PARA / PERP TRANS. (SHORT AND TALL) COUNTER FLASHING INSTALLATION	P-081537		I FOURS INSTALLATION	P- 081657
1 -	MR/CMR-24 HIP RIDGE PNL PREP.	P-080786		INSTALLATION BUTLERIB II, MR-24/CMR-24 EAVE TRIM INSTALLATION	P-081239		PARALLEL TO PERP. TRANSITION		-	CARRY BEAMS - PURLIN CUTTING REQ'D	F-001007
	MR/CMR-24 HIP RIDGE PARTS INSTALL.	P-0 0 0787		WIDE GUTTER, CORNER TRIM AND		-	INSIDE CORNER WITHOUT CORRUGATION	P-081539	RODE	IFCURE INSTALLATION CARRY BEAMS - NO PURLIN CUTTING REQ'D	P-DB1658
	MR/CMR-24 HIP RIDGE DETAILS	P-080788	-	COLLECTOR BOX INSTALL.	P-D81240		PARALLEL TO PERP, TRANSITION INSIDE CORNER WITH CORRUGATION	P-081541	ACCES- SORIES	LITE*PANL PLACEMENT	P- DB1 659
H	MR-24 HS EAVE CLIP AND PNL CLIP REQMT. MR/CMR-24 MASTIC APPLICATION	P-080789 P-080847	1	WIDE GUTTER SEALANT	P-081241		RIDGE TO WALL SHORT TRANS. (W/O CORR.)	P-081548	aurica	UNINSULATED LITE*PANL-UNINSULATED PURLIN	P- DB1 660
1 +	MR/CMR-24 VARIABLE WIDTH PANELS	P-080876	TRIM	AND SUPPORT CHANNEL INSTALLATION RIDGE END COVER INSTALLATION	.		RIDGE TO WALL SHORT TRANS. (W/CORR.)	P-081547		INSULATED LITE*PANL-UNINSULATED PURLIN	P- DB1 661
ROOF	MR/CMR-24 CORR. END DEFLECTOR	P-080918	1	(WITH RIDGE ASSEMBLY)	P-081243		RIDGE TO WALL TALL TRANS. (W/O CORR.)	P-081548		UNINSULATED LITE*PANL-INSULATED PURLIN	P-DB1662
PANELING .	MR/CMR-24 SEAM REINFORCING CLIP ASSBLY.	P-080951	i	INSIDE CORNER TRIM INSTALLATION	P-081244		RIDGE TO WALL TALL TRANS. (W/CORR.)	P-081549		INSULATED LITE*PANL-INSULATED PURLIN	P- DB1 563
	MR-CMR-24 ROOF WITHOUT RIDGE	P-081257	1	EAVE TRIM TO GABLE TRIM WIDE GUTTER INSIDE CORNERS	P-D81246	TRANSI-	PARALLEL TO PERP. TRANSITION INSIDE/OUTSIDE CORNER WITH CORR.	P-081552		UL 90 UNINSULATED LITE*PANL FOR UNINSULATED PURLINS	P- DB1 564
1 1	MR-24 SUB PURLIN INSTALLATION	P-081598	1	VARIABLE WALL ADAPTER INSTALLATION	P-081259		PARALLEL TO PERP, TRANSITION	n anurez	-	UL 90 INSULATED LITE*PANL	P- DB1 665
1	MR-24 SEAMER PLATFORM ASS'Y AND USAGE	P-08161B	1	EW TRIM REINFORCING CLIP			INSIDE/OUTSIDE CORNER WITHOUT CORR.	P-081563		FOR UNINSULATED PURLIN	
	MR-24 REPAIR CLIP INSTALLATION	P-081680		(HIGH WIND LOAD APPLICATION)	P-081635		END COVER INSTALLATION STEPPED ROOF (WITH SUPPORT MBR.)	P-081554		UL 90 UNINSULATED LITE*PANL FOR INSULATED PURLIN	P- 081666
	MR-24/CMR-24 PANEL CLOSURE INSTALL	P-103247	NARROW GUTTER ASSEMBLY	P-103223		PERPENDICULAR R TO W TRANSITION		-	UL 90 INSULATED LITE*PANL	P-081667	
	MR-24 ENDWALL EXT./ROOF REPLACEMENT	P-105528		MR/CMR-24 GUTTER EXPANSION JOINT	P-103315		WITH SOLID WALL	P-D81564		FOR INSULATED PURLIN LITE*PANL REPLACEMENT — DRAWING 1 OF 1	P-081681
	MR-24/CMR-24 PANEL CLOSURE INSTALL.	P-105634	1	BIRD STOP INSTALL CABLE TRIM	P-104542		PERPENDICULAR R TO W TRANSITION	P-081588		RIDGE VENTILATOR DETAILS	P-107551
	MR-24 SINGLE PANEL REPAIR	P-107656	-	SOFFIT TRIM DETAILS	P-104544		PERPENDICULAR TRANSITION SHORT PERP. FLASHING INSTALLATION	P-081572		RIDGE VENTILATOR PREPARATION DETAILS	P-107552
	MR-24/CMR-24 PANEL REPAIR CAP INSTALL.	P-107657	-	CORNER CAP INSTALLATION EAVE TRIM	P-104549		PERPENDICULAR TRANSITION WITH OPEN WALL	P-081573	1	RIDGE VENTILATOR INSTALLATION	P-107553
	MR-24/CMR-24 MULT, PANEL REPAIR AND DET.	P-107743		NARROW GUTTER INSTALL W/O WEATHERSEAL	P-104713		TALL PERP, FLASHING INSTALLATION PARALLEL TRANSITION INSTALLATION			CONTINUOUS RIDGE VENTILATOR INSTALL	P-107559
	MR-24 MULTIPLE PANEL REPAIR	P-107744	1	NARROW GUTTER INSTALL, W/WEATHERSEAL	P-104714		TO EXISTING BLDG - NO WIDTH ADD.	P-081613			
	MR-24 MULTIPLE PANEL REPAIR	P-107745					PARALLEL TRANSITION INSTALLATION	P-D81614			
	MR-24 SEAMED RIDGE ROOF SYSTEM GENERAL INSTALLATION	P-090006		<u> </u>			TO EXISTING BLDG — FOR WIDTH ADD. CORRUGATION TRANSITION INSTALLATION				
	MR-24 SEAMED RIDGE ROOF SYSTEM		1	MR-24 SEAMED RIDGE ROOF SYSTEM RIDGE END COVER INSTALL, WITH RIDGE ASSY.	P-090008		GENERAL INFO AND CLIP INSTALL 1 OF 5	P-081675			
	PANEL INSTALLATION	P-090007		MR-24 SEAMED RIDGE ROOF SYSTEM	P-090010		CORRUGATION TRANSITION INSTALLATION SEAMING OPERATION 2 OF 5	P-081676			
	MR-24 SEAMED RIDGE ROOF SYSTEM	P-090011		INTERIOR RIDGE TRIM INSTALLATION CONDUCTOR PIPE INSTALLATION AND DETAILS	P-080091	-	CORRUGATION TRANSITION INSTALLATION	P-081677	1		
	ROOF PANEL FIELD NOTCHING DETAILS			COLLECTOR BOX INSTALLNARROW GUTTER	P-103225	1	SILICONE MEMBRANE AND COVER 3 OF 5	F-001077	-		
	MR-24 SEAMED RIDGE ROOF SYSTEM SPLICE DETAIL AND RIDGE PANEL FIELD HOLES	P-090012	CONDUC-	CONDUCTOR PIPE INSTALLATION	P-105224	-	CORRUGATION TRANSITION INSTALLATION SPECIFIC DETAILS 4 OF 5	P-081678			
BLG5. WITH	MR/GMR-24 ROOF PANEL CALCULATOR	P-081113	PIPE	CONDUCTOR PIPE DETAILS	P-105225		CORRUGATION TRANSITION INSTALLATION	P-081679			
TRU55	ROOF STRUCTURALS FOR ROOF PNL CALC.	M-149099	1	CONDUCTOR PIPE DETAILS	P-105228	1	RIDGE AND PERP. TRANS. 5 OF 5 MR-24 SEAMED RIDGE ROOF SYSTEM		-		
BLGS, WITH	MR/CMR ROOF PANEL CALCULATOR	P-080949				1	RIDGE PANEL AT PARALLEL TRANSITION	P-090009			
Z-PURLIN	ROOF STRUCTURALS FOR ROOF PANEL CALCULATIONS	P-ZRSLO					PERPENDICULAR TRANSITION MEMBRANE ROOF TO METAL ROOF	P-081574			
1	NOOF PAREE DALCOCK HONG		J			MEMBRANE	PARALLEL TRANSITION MEMBRANE ROOF TO METAL ROOF	P-081575	1		
							INTERIOR GUTTER CORNER INSTALLATION ROOF TO WALL	P-080189	1		
	NOTES.						INTERIOR GUTTER PAR. TO INSIDE CORNER FLASHING WITHOUT CORRUGATION	P-081543	1		
	NOTES:					INTERIOR GUTTER PAR. TO INSIDE CORNER FLASHING WITH CORRUGATION	P-081545	1			
	1. THE ABOVE DRAWINGS PERTAIN TO WIDESPAN BUILDINGS WITH Z-PURLIN AND/OR TRUSS FOR THE ROSE SECONDARY, IN-SES BUILDING HAVE EAVE STRUTS (OR AN EQUIVALENT MEMBER), GABLE ANGLES OR PAKE CHANNELS AT THE BUILDING STRUCTURE LINE, AT STANDARD LOCATIONS, FOR PANEL AND THIS SUPPORT THIS INDEX DRAWING IDENTRIES THE ROSE PANEL, TRIM AND ACCESSORY DRAWINGS ASSIGNATED WITH THIS BUILDING. 2. ONLY THOSE DRAWINGS REQUIRED ON A SPECIFIC BUILDING.						PARALLEL TO PARAPET GUTTER	n anusca	-		
						INTERIOR	PARALLEL TRANS. TO VALLEY GUTTER	P-081550	-		
						GUTTERS	WITH AND WITHOUT CORRUGATION	P-081551	1		
							MULT. GUTTER STOP FLASHING	P-105525	_		
							MULT. GUTTER GABLE TRIM	P-105526	4		
							MULT. GUTTER EXPANSION JOINT	P-105533	4		
							MULT. GUTTER SPECIAL APPLICATIONS	P-105534	4	MR-24 ERECTION DRAWNO	3 INDEX
							WELD PROCEDURES FOR SS GUTTERS SUGGESTED FIELD FABRICATION	P-105B46	-		
							COLLECTOR BOX AND SCREEN	P-107134	_	FORM RSS	92-030-02
										FREST RELEVASE DATE REVASSAN DATE B P-08*	1111 07





DOUBLE SLOPE BUILDINGS

SEAM ROOF PANEL TO TRIM-MR-24 ROOF PANEL-GABLE TRIM (SEE SCHEDULE) 1/4-14 X 3/4" T-30 TORX SDS (097364) 2'-0" 0.C. WALL ADAPTER (SEE SCHEDULE) - WALL PANEL ∯ EW INSULATED WALL PANEL

WALL ADAPTER PART SCHEDULE								
WALL PANEL	PART NUMBER	LENGTH						
NON-BMC WALL (SEE DWG. P-081259)	VWA10							
BUTLERIB II, SHADOWALL, STYLWALL II FLAT AND FLUTED, ALL (2") TEXTURED AND INSULATED WALL PANEL	WA10A							
ALL (2 1/2") TEXTURED AND INSULATED WALL PANEL ALL (3") TEXTURED AND INSULATED WALL PANEL OPEN ENDWALL OVERHANG AND CANOPY	WA10B	10'-4 1/2"						
ALL (4") TEXTURED AND INSULATED WALL PANEL	WA10C							

GABLE TRIM TO CORNER TRIM

GABLE TRIM AND WALL ADAPTERS FURNISHED TO LENGTH SHOWN IN PARTS SCHEDULE, FIELD CUT TO LENGTH REQUIRED.

	GABLE TR	IM PART	SCHEDUL	.E
LEFT HAN	IDED PANELS	RIGHT HAP	LENGTH	
LEFT SLOPE	RIGHT SLOPE	LEFT SLOPE	RIGHT SLOPE	
PART NO.	PART NO.	PART NO.	PART NO.	20'-6 7/8"
MRGTL20L	MRGTL20R	MRGT20L	MRGT20R	

UP SLOPE ENDS OF GABLE TRIM ARE NOTCHED. AND SWEDGED. (2) 1/4-14 X 3/4" T-30 TORX SDS (097364) UP SLOPE WALL ADAPTER — -SLIP UP SLOPE GABLE TRIM OVER DOWN SLOPE GABLE TRIM. NOTCH BOTTOM PORTION
OF CORNER TRIM AS REQUIRED
TO CLEAR WALL PANEL
CORNER. — ATTACH WALL ADAPTER WITH 1/4-14 X 3/4" T-30 TORX SDS GABLE TRIM SPLICE (097364) 2'-0" O.C.-DOWN SLOPE WALL ADAPTER — LWALL CORNER TRIM WALL ADAPTER SPLICE CORNER TRIM (630043) GABLE TRIM AND WALL ADAPTER SLIPS OVER AND AROUND CORNER TRIM. ∠FASTENER GROOVE GABLE TRIM AND WALL ADAPTER SPLICE

GABLE TRIM AND WALL ADAPTER ASSEMBLY

WALL ADAPTER - URETHANE SEALANT (HW54_) CONTINUOUS (BY PANEL SUPPLIER)

ERECTION SEQUENCE:

- SNAP CHALK LINE ON FACE OF WALL PANEL AT 5" DIMENSION SHOWN ABOVE.
- 2. ATTACH WALL ADAPTER TO WALL PANEL, ALIGNING HORIZONTAL LEG WITH CHALK LINE. LOCATE TORX FASTENERS AT FASTENER GROOVE IN WALL ADAPTER.

PANEL CLOSURE (7607UGR) FOR FLUTED PANEL ONLY (BY PANEL SUPPLIER)

INSULATED WALL PANEL

- 3. ENGAGE GABLE TRIM CORRUGATION TO ROOF PANEL CORRUGATION. ENGAGE LOWER LEG OF GABLE TRIM INTO WALL ADAPTER. USING HAND PRESSURE, SNAP GABLE TRIM INTO WALL ADAPTER. WISUALLY CHECK TO ASSURE GABLE TRIM IS FULLY ENGAGED INTO
- 4. SEAM GABLE TRIM TO ROOF PANEL.

NOTES:

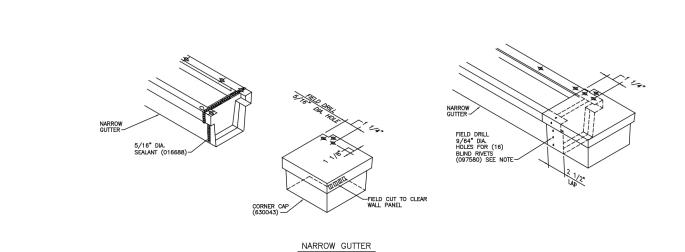
- UP SLOPE GABLE TRIM

-SECURE GABLE TRIM SPLICE WITH (2) 1/4-14 X 3/4" T-30 TORX SDS (097364)

- SEE ERECTION DRAWING P-081635 IF HIGH WIND GABLE TRIM CLIPS ARE REQUIRED.
- BUILDINGS WITH WIDTH EXTENSION AND CANOPY TRANSITION THAT IMPOSES SLOPE CHANGE, FIELD MITER GABLE TRIM AND ADAPTER
- FOR SMOOTH FIT UP.

 3. SEE DRAWING P-081243 FOR END RIDGE COVER INSTALLATION.

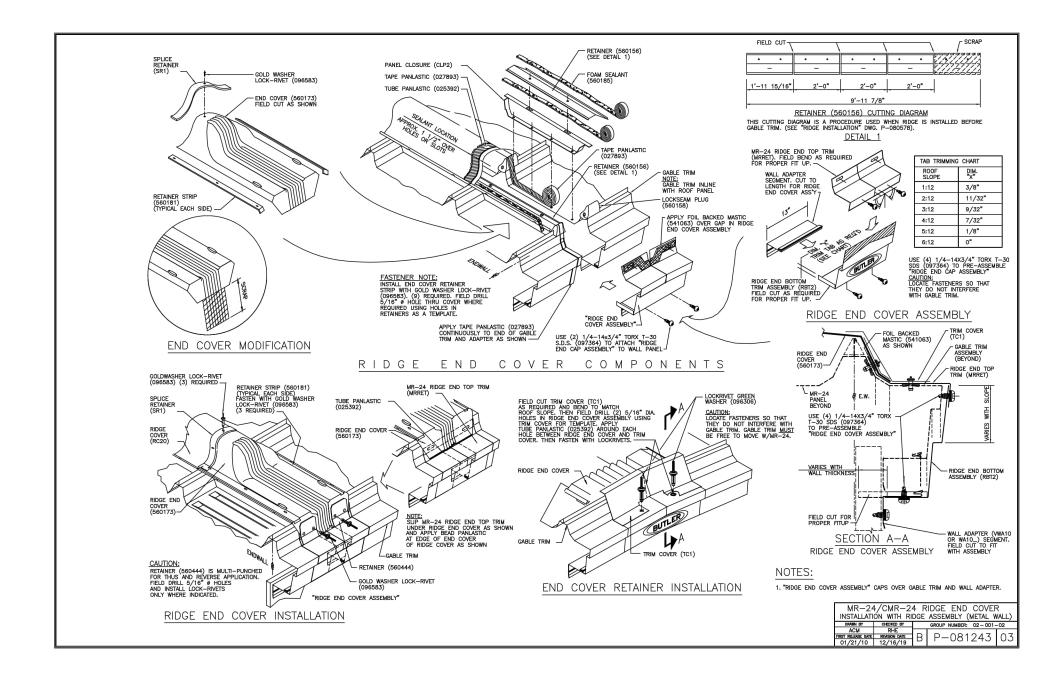
			24 GABLE TRIM LL. WITH RIDGE ASSE	MBLY
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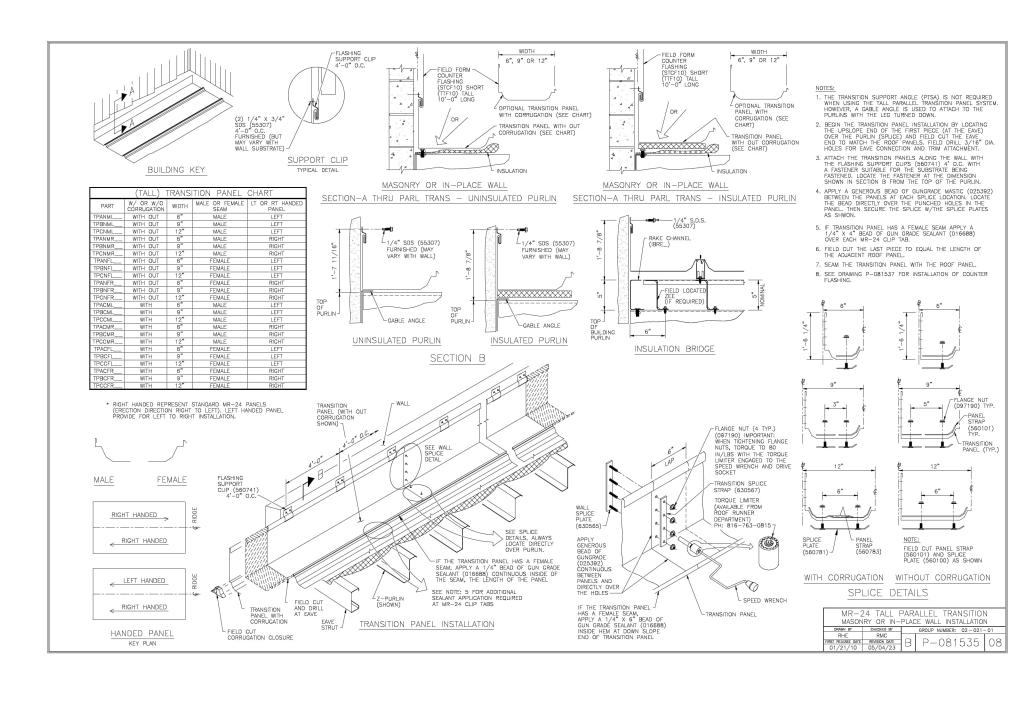


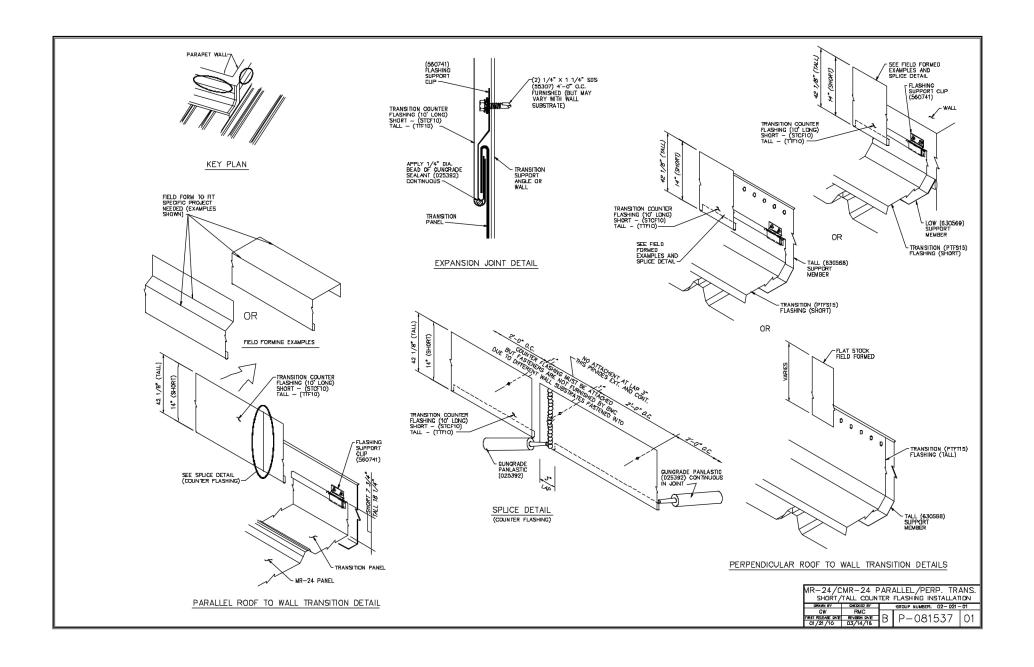
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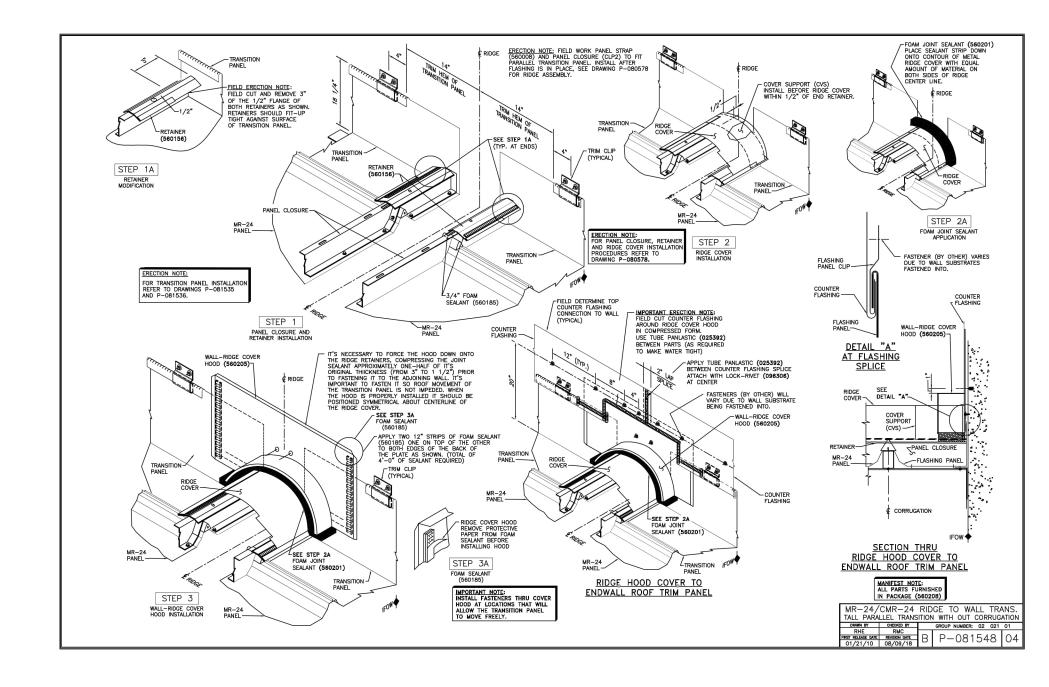
SEE DRAWING P-081764 FOR BLIND RIVET COLOR (INFORMATION.

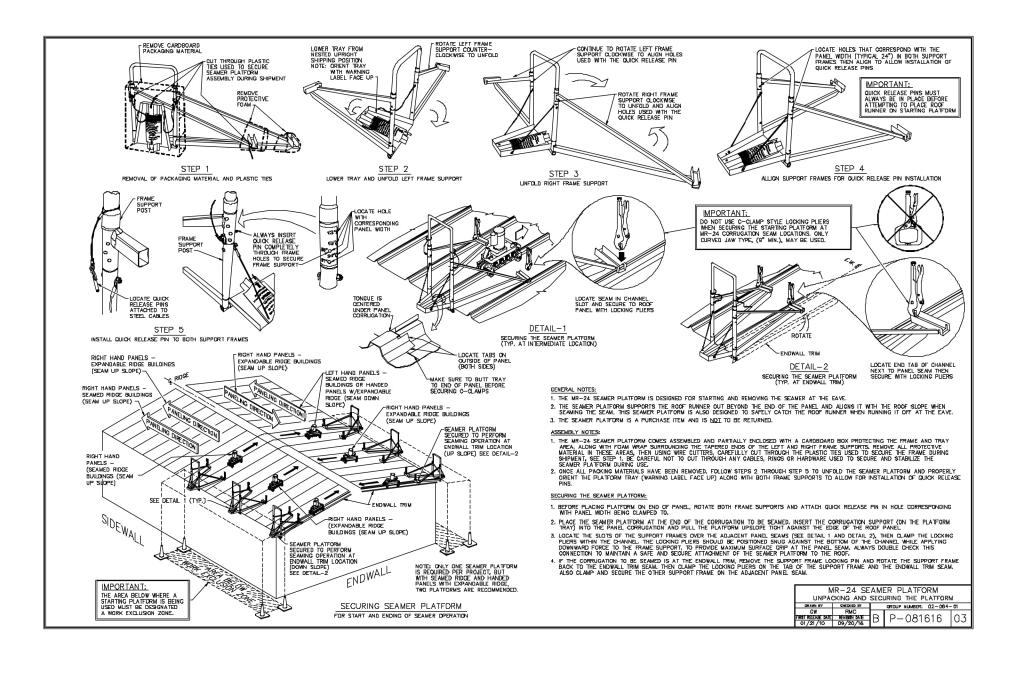
NAI	RROW GU	ΠEI	R CORNER	CAP	_		
INSTALLATION - ALL ROOFS							
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CAG	MEC	_					
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SAFETY PRECAUTIONS

SAFETY MUST BE A PRIME CONCERN THROUGHOUT THE ENTIRE ERECTION PROCESS. THESE INSTRUCTIONS CONTAIN SAFETY INFORMATION THAT IS IMPORTANT FOR ALL WORKERS TO KNOW AND UNDERSTAND. IN ADDITION, LOCAL, STATE AND OSHA SAFETY REGULATIONS MUST BE FOLLOWED AT ALL TIMES. THE ERECTION CONTRACTOR HAS THE ULTIMATE RESPONSIBILITY FOR THE SAFETY OF THE WORKERS AND MUST COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS.

RECOGNIZE SAFETY INFORMATION



THIS IS THE SAFETY-ALERT SYMBOL. WHEN YOU SEE THIS SYMBOL IN THESE INSTRUCTION, BE ALERT TO THE POTENTIAL FOR PERSONAL INJURY. FOLLOW RECOMMENDED PRECAUTIONS AND SAFE PRACTICES.

FOLLOW SAFETY INSTRUCTIONS

CAREFULLY READ ALL SAFETY MESSAGES IN THESE INSTRUCTIONS AS WELL AS MR-24 ERECTION MANUAL, ALL APPLICABLE DRAWINGS AND THE ROOFING WORK SAFETY INSTRUCTIONS AND ROOF PANEL WARNING LABEL THAT ARE SHIPPED WITH THE ROOF MATERIALS.

THE FOLLOWING WARNING DECAL IS ATTACHED TO THE SEAMER PLATFORM PAN.



- . DO NOT STEP ON PLATFORM PAN
- . DO NOT LEAN ON PLATFORM.
- . DO NOT STRADDLE PLATFORM LEGS. · MAKE SURE LOCKING PLIERS ARE
- SECURELY CLAMPED ONTO PANELS. · ALWAYS USE FALL PROTECTION.

IMPORTANT:

CORRUGATION SUPPORT MUST BE FULLY INSERTED INTO CORRUGATION.



FAILURE TO HEED THESE WARNINGS CAN RESULT IN SERIOUS INJURY OR EVEN DEATH.

IF THE WARNING DECAL BECOMES ILLEGIBLE, ORDER A FREE REPLACEMENT FROM THE ROOF RUNNER OPERATIONS DEPARTMENT.

IN ADDITION, FOLLOW THESE GUIDELINES DURING ALL ROOF RUNNER SEAMING OPERATIONS:

- ALWAYS USE FALL PROTECTION AND WALKBOAPDS WHEN INSTALLING PANELS OR WORKING NEAR ROOF EDGES.

 MAKE SURE SEAMING FOLOWS LAYING OF PANELS AS CLOSELY AS POSSIBLE AND USE FALL PROTECTION.

 LOCKING PUERS (NOT BY BUILTER MANUFACTURING COMPANY) USED TO ATTACH SEAMER PLATFORM TO PANELS MUST BE IN

 GOOD CONDITION AND ADJUSTED TO RESIST A GOOD HARD PULL (6D POUNDS). ALWAYS DOUBLE CHECK SECURENESS OF

 LOCKING PUERS EACH TIME THE SEAMER PLATFORM IS SECURED TO THE ROOF CORRUGATIONS.

 NEVER STEP ON THE SEAMER PLATFORM PAN.

 NEVER STEP ON THE SEAMER PLATFORM PAN.

 PANELS NOT FULLY SEAMED CAN COLLAPSE OR SLIDE OUT FROM UNDER YOU. ALWAYS USE FALL PROTECTION AND WALKBOARDS

 WHEN INSTALLING PANELS OR WORKING NEAR ROOF EDGES, MAKE SURE SEAMING FOLLOWS THE LAYING OF PANELS AS CLOSELY

 AS POSSIBLE.



WARNING: NEVER TIE POWER CORDS TOGETHER OR TO THE ROOF RUNNER.



CAUTION:

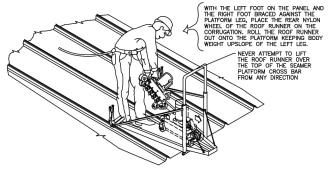
KEEP THE PATH OF THE ROOF RUNNER CLEAR AT ALL TIMES AND POWER CORDS FREE OF ENTANGLEMENTS. A NON-LOCKING PLUIG IS SUPPLIED SO THAT IT WILL UNPLUIG TISELF SHOULD THE POWER CORD BECOME ENTANGLE. DO NOT DEFEAT THIS SAFETY FEATURE BY TIME THE POWER CORD TO THE MOTOR LEAD OR TO THE ROOF RUNNER. ADDITIONALLY, TOWING OF THE POWER CORD(S) CAN CAUSE IMPROPER SEAMS TO BE

WARNING: DON'T RIDE THE ROOF RUNNER OR BLOCK VENTS ON THE MOTOR IN ANY WAY.



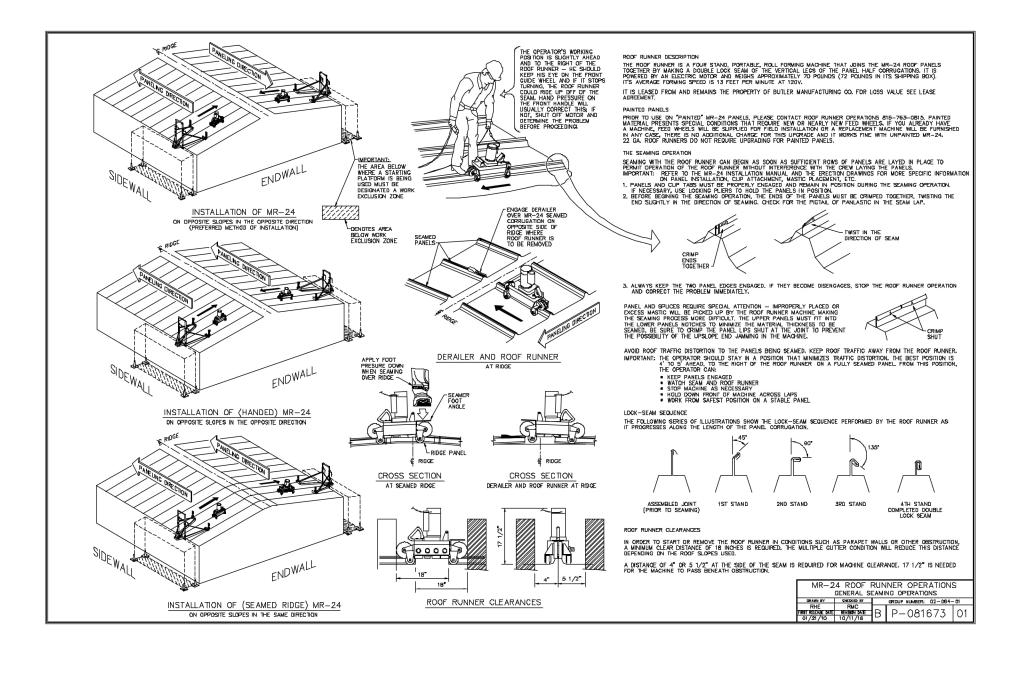
PANELS NOT FULLY SEAMED CAN COLLAPSE OR SLIDE OUT FROM UNDER YOU. ALWAYS USE FALL PROTECTION AND WALKBOARDS WHEN INSTALLING PANELS OR WORKING NEAR ROOF EDGES. MAKE SURE SEAMING FOLLOWS THE LAYING OF PANELS AS CLOSELY AS POSSIBLE. WARNING:

CAUTION: ALL ELECTRICAL SERVICE MUST BE PROPERLY GROUNDED, AND MUST INCLUDE A GROUND FAULT INTERRUPTERI



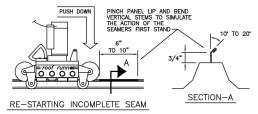
WARNING: NEVER STRADDLE THE PLATFORM OR COUNTERBALANCE THE ROOF RUNNER WITH YOUR WEIGHT.

MR-2	4 ROOF	KUI	NNER OPERATIONS			
SAFETY PRECAUTIONS						
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TIPS FOR TROUBLE FREE OPERATION

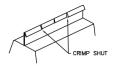
- SAFE AND CORRECT SEAMING REQUIRES ALL MACHINE OPERATORS TO BE FAMILIAR WITH THE MACHINE FEATURES. BE SURE THEY ARE AWARE OF THE PROPER MATERIAL FLOW THROUGH THE FEED WHEELS SO THAT THEY CAN SPOT A MALFUNCTION QUICKLY AND CAN CORRECT ITS CAUSE IMMEDIATELY. IMPROPER SEAMS LONGER THAN 5 FEET ARE DIFFICULT TO REPAIR AS THEY INVOLVE THE PANEL CLIPS AND TABS.
- 2. ALWAYS USE A SEAMER PLATFORM.
- 3. MAKE SURE THE FEED WHEELS ARE KEPT CLEAN, ESPECIALLY ON PAINTED MATERIALI (SEE MAINTENANCE)
- 4. MANY SEAMING PROBLEMS ARE THE RESULT OF MIS-ALIGNED PURLINS AND/OR FRAMES. A SUDDEN CHANGE IN DIRECTION (1/4" IN 5"-0") CAN CAUSE AN INCORRECT SEAM. A GOOD RULE TO FOLLOW IS TO "STRING LINE" THE PURLIN HOLES IN EACH BAY BEFORE PANELING.
- 5. BE SURE THE PANELS ARE PROPERLY ENGAGED PRIOR TO SEAMING, USE LOCKING PLIERS TO HOLD THEM IN POSITION AS REQUIRED. SHOULD AN INCOMPLETE SEAM OCCUR, STOP THE ROOF RUNNER IMMEDIATELY AN INCOMPLETE SEAM CAN USUALLY BE RESTARTED BY BENDING THE PANEL STEMS SEVERAL INCHES AHEAD OF THE SEAMER, IN THE DIRECTION OF SEAMING.



- 6. WATCH TO SEE THAT THE LARGE FRONT AND REAR GUIDE WHEELS ARE BEARING ON THE CORRUGATION. THE WHEELS SHOULD TURN THROUGHOUT THE SEAMING OPERATION (AT CLIPS AND END SPLICES THEY MAY STOP MOMENTARILY, BUT SHOULD RESUME TURNING ACAIN IMMEDIATELY).
- 7. CAM RELEASES ARE PROVIDED FOR THE PURPOSE OF DISENGAGING THE MACHINE FROM THE PANEL. THEY SHOULD BE USED ONLY WHEN ABSOLUTELY NECESSARY. A LARGE ADJUSTABLE WRENCH OR 30 MM SOCKET IS REQUIRED AND THE PROCESS SHOULD BE DONE SLOWLY AND WITH GREAT CARE AS THERE ARE SEVERAL CAST PIECES INVOLVED THAT ARE UNDER HEAVY SPRING PRESSURE. THESE PIECES WILL BREAK IF EXTREME CARE IS NOT USED TO RELEASE AND ENGAGE THE CAM.



8. PANEL AND SPLICES REQUIRE SPECIAL ATTENTION — IMPROPERLY PLACED OR EXCESS MASTIC WILL BE PICKED UP BY THE ROOF RUNNER MACHINE MAKING THE SEAMING PROCESS MORE DIFFICULT. THE UPPER PANELS MUST FIT INTO THE LOWER PANELS NOTCHES TO WINNIZE THE MATERIAL THICKNESS TO BE SEAMED. BE SURE TO CRIMP THE PANEL LIPS SHUT AT THE JOINT TO PREVENT THE POSSIBILITY OF THE UPSLOPE END JAMING THE ROOF RUNNER MACHINE.



9. AVOID ROOF TRAFFIC DISTORTION TO THE PANELS BEING SEAMED. KEEP ROOF TRAFFIC AWAY FROM THE ROOF RUNNER. IMPORTANT: THE OPERATOR SHOULD STAY IN A POSITION THAT MINIMIZES TRAFFIC DISTORTION. THE BEST POSITION IS 4' TO 5' AHEAD, TO THE RIGHT OF THE ROOF RUNNER THE OPERATOR CAN:

- THE OFFERVIOR CALL

 * KEEP PANELS ENGAGED

 * WATCH SEAM AND ROOF RUNNER

 * STOP MACHINE AS NECESSARY

 * HOLD DOWN FRONT OF MACHINE ACROSS LAPS

 * WORK FROM SAFEST POSITION ON A STABLE PANEL

MAINTENANCE FOR THE SEAMER PLATFORM

ALL MAINTENANCE AND REPAIRS ARE THE RESPONSIBILITY OF THE BUILDER.

THE SEAMER PLATFORM MUST BE MAINTAINED IN GOOD WORKING CONDITION IN ORDER TO FUNCTION PROPERLY AND SAFELY. DO NOT ALLOW THE SEAMER PLATFORM TO BE DROPPED, BEINT, OR IN ANY WAY BE DAMAGED.

REGULAR INSPECTION OF THE SEAMER PLATFORM IS ADVISABLE IN ORDER TO DISCOVER HIDDEN DAMAGE AND TO INSURE IT IS IN GOOD WORKING ORDER.

IF ANY DAMAGE TO THE SEAMER PLATFORM AFFECTS ITS SAFE USAGE, DO NOT CONTINUE TO USE IT.

TO PURCHASE A REPLACEMENT, CALL THE ROOF RUNNER OPERATIONS DEPARTMENT.

THE WARNING DECAL ON THE SEAMER PLATFORM MUST ALSO BE KEPT IN GOOD CONDITION. REPLACEMENTS MAY BE ORDERED, FREE OF CHARGE, FROM THE ROOF RUNNER OPERATIONS DEPARTMENT (816-763-0815).

MAINTENANCE FOR THE ROOF RUNNER

ALL MAJOR MAINTENANCE AND REPAIRS WILL BE DONE BY BUTLER MANUFACTURING COMPANY — ROOF RUNNER OPERATIONS. EACH MACHINE WILL BE CLEANED, WORN PARTS REPLACED, LUBRICATED, PAINTED, AND TESTED BEFORE BEING SHIPPED TO INSURE RELIABLE PERFORMANCE ON THE JOB SITE.

MINOR MAINTENANCE SUCH AS MASTIC REMOVAL, PROTECTION FROM MOISTURE, DAMAGE, SHIPPING BOX CARE, ETC., ARE SOLELY THE RESPONSIBILITY OF THE LESSEE.

ALL QUESTIONS PERTAINING TO THE ROOF RUNNER SHOULD BE DIRECTED TO: (PLEASE REFER TO SPECIFIC ROOF RUNNERS BY SERIAL NUMBER ON ALL CORRESPONDENCE)

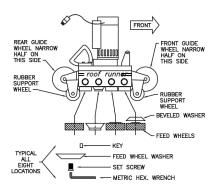
BUTLER MANUFACTURING COMPANY 13500 BOTTS ROAD GRANDVIEW, MISSOURI 64030

TEL: 816-763-0815 FAX: 816-763-1717 ATTN: ROOF RUNNER OPS.

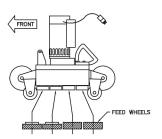
MASTIC REMOVAL — THE EIGHT FORMING WHEELS ON THE UNDERSIDE OF THE ROOF RUNNER MAY BE REMOVED FOR CLEANING (AN "L" SHAPED METRIC HEX WERCH IS FURNISHED WITH THE ROOF RUNNER TO REMOVE THE FEED WHEELS EST SCREWS). THE FEED WHEELS, WASTIES, AND SET SCREWS CAN BE SOAKED IN A SOLVENT BATH TO REMOVE MASTICS. NAPTHA OR MINERAL SPIRITS WILL EFFECTIVELY CUT BULLER MASTICS. CAUTION — READ SOLVENT LABELS THOROUGHLY BEFORE USING, DO NOT SOAK ANY OTHER PART OF THE ROOF RUNNER.— SOLVENTS WILL ATTACK THE RUBBERS SUPPORT WHEELS AND REMOVE THE LUBRICATING ABILITY OF THE BRONZE BEARINGS IF SOAKED. THESE PARTS MAY BE CLEANED BY BRUSHING OR WIPING WITH SOLVENTS AND DIRECTION, AND OTHER PARTS THAT CAN BE REMOVED FOR CLEANING, FEED WHEELS, KNURLING DIRECTION, AND OTHER PARTS THAT CAN BE REMOVED FOR CLEANING, FEED WHEELS MUST BE RE-INSTALLED EXACTLY AS SHOWN BEFORE THE MACHINE CAN ELINICATION PROPEPTILY. BEFORE THE MACHINE CAN FUNCTION PROPERLY.

PAINTED PANELS — FEED WHEELS MUST PENETRATE THE PAINTED SURFACE IN ORDER TO GRIP THE PANEL AND MAKE THE SEAM. THIS WILL LEAVE NON-OBJECTIONABLE TRACKS ON THE SEAM A BUILD-UP OF PAINT CHIPS IN THE GROOVES OF THE FEED WHEELS WILL OCCUR REQUIRING CONTINUOUS WIRE BRUSHING TO INSURE AN ADEQUATE GRIP DURING THE SEAMING PROCESS.

THE FREQUENCY OF CLEANING SHOULD BE DETERMINED BY THE MACHINE OPERATOR. MASTIC MUST NOT BE ALLOWED TO ACCUMULATE ON THE FEED WHEELS EVEN THOUGH THE MACHINE IS FUNCTIONING PROPERLY. AS MASTICS BUILD UP, A CERTAIN AMOUNT WILL MIGRATE TO THE INTERNAL PARTS CAUSING BINDING OF PARTS AND RESULTING IN IMPROPER FUNCTIONING. INTERNAL CLEANING IS CONSIDERED MAJOR MAINTENANCE AND MUST BE DONE BY ROOF RUNNER OPERATIONS.







GUIDE WHEELS AND RUBBER SUPPORT WHEELS MAY ALSO BE REMOVED FOR CLEANING BY REMOVING SNAP RINGS AND WITHDRAWING THE AXLES

			NNER OPERATION REE OPERATION—MAIN	
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	SCRUBOLTS			
PART MARK	PART MARK COLOR DESCRIPTION			
095984		11/32 X 7/8", HEX HD, SS W/WASHER		
096932		3/8 X 1 1/4", HEX HD W/WASHER		
097104		11/32 X 1 1/4", HEX HD, SS W/WASHER		
097196		3/8 X 1", HEX HD W/WASHER		
097222		3/8 X 2", HEX HD W/WASHER		
097264		3/8 X 2 3/4", HEX HD W/WASHER		
097270		3/8 X 2 1/4", HEX HD W/WASHER		
097271		3/8 X 3 1/2", HEX HD W/WASHER		
097292		3/8 X 5", HEX HD W/WASHER		
097298		3/8 X 6", HEX HD W/WASHER		
097351		11/32 X 7/8", T-45 TORX HD W/O WASHER (GRAY)		
097352		11/32 X 1 1/4", T-45 TORX HD W/O WASHER (GRAY)		
097361-		11/32 X 7/8", T-45 TORX HD W/WASHER		
097362-		11/32 X 1 1/2", T-45 TORX HD W/WASHER		
097363-	097363 11/32 X 2", T-45 TORX HD W/WASHER			
097604-		11/32 X 3 1/2", T-45 TORX HD W/WASHER		
097267		SCRUBOLT NUT, 11/32", 1/2" HEX		
097466		SCRUBOLT NUT, 23/64", 1/2" HEX		

SELF-DRILLING SCREWS				
	PART MARK COLOR DESCRIPTION			
097216		(T-3) #10-16 X 3/4", 5/16" HEX HD		
097295		(T-3) #12-14 X 3/4", 5/16" HEX HD W/WASHER		
097296		(T-3) #12-14 X 1 1/4", 5/16" HEX HD W/WASHER		
097354		(T-4) 1/4-14 X 1 1/2", 3/8" HEX HD W/WASHER		
097356		(T-3) 1/4-14 X 1" PHILLIPS WAFER HD		
097373		(T-3) #12-14 X 1 1/4", 3/8" HEX HD, SS W/WASHER		
097374		(T-3) #12-14 X 1 1/4", 3/8" HEX HD, SS W/WASHER		
097405		(T-3) 5/16-12 X 1", 3/8" HEX HD W/WASHER		
097406		(T-3) 5/16-12 X 1 1/2", 3/8" HEX HD W/WASHER		
097409		(T-3) 1/4-14 X 7/8", 3/8" HEX HD, SS W/WASHER		
097460		(T-3) 5/16-18 X 1 1/4", 3/8" HEX HD W/WASHER		
097554		(T-5) #12-24 X 1 1/4", 5/16" HEX HD W/O WASHER		
097555		(T-3) 1/4-14 X 1 1/4", 3/8" HEX HD W/O WASHER		
097230-		(T-3) 1/4-14 X 1 1/4", 3/8" HEX HD W/WASHER		
097357-		(T-1) 1/4-14 X 7/8", 3/8" HEX HD W/WASHER		
097364-		(T-1) 1/4-14 X 3/4", T-30 TORX HD W/WASHER		
097365-		(T-3) #12-14 X 1 1/4", T-30 TORX HD W/WASHER		
097529-		(T-5) #12-24 X 1 1/2", T-30 TORX HD W/WASHER		
097584-		(T-2) #12-14 X 1 1/4", 5/16" HEX HD, SS CAP W/WASHER		
097605-		(T-3) 1/4-14 X 3 1/8", T-30 TORX HD STANDOFF SDS W/WASHER		
55307		(T-3) 1/4-14 X 1 1/4", 5/16" HEX HD		
55310		(T-3) 1/4-14 X 3", 5/16" HEX HD		
55312		(T-3) #12-14 X 1" PANCAKE PHILLIPS SQUARE DRIVE		
55320		(T-3) 1/4-14 X 1 1/2", 5/16" HEX HD		
56104		(T-5) #12-24 X 1 1/2", 5/16" HEX HD		
56450		(T-2) #12-14 X 1 1/4", 5/16" HEX HD W/O WASHER		
097581-		(T-1) 1/4-14 X 7/8", 5/16" HEX HD, SS CAP W/WASHER		

MISCELLANEOUS FASTENERS					
PART MARK	COLOR	OLOR DESCRIPTION			
095051		MACHINE SCREW 1/4 X 1", HEX HD			
095056		MACHINE SCREW 1/4 X 3", HEX HD			
095062		NUT, MACHINE SCREW 1/4", HEX HD			
095241		NUT, 1/4" FLAT SPEED NUT			
095895		(T-A) #10 X 3/4", PAN HD (SHEET METAL SCREW)			
097190-		NUT, 1/4-20 SS FLANGE NUT			

BLIND RIVETS				
PART MARK COLOR	DESCRIPTION			
097580	POP RIVET, 1/8 X 3/8"			

FASTENER COLOR SUFFIX CHART

SUFFIX COLOR	
112 = COOL SHELL GRAY	
113 = COOL DESERT BEIGE	
115 = COOL OCEAN BLUE	
	₹
119 = COOL JADE GREEN	
120 = COOL BRIGHT RED	
	(
UNPNTD = UNPAINTED	
	112 = COOL SHELL GRAY 113 = COOL DESERT BEIGE 115 = COOL OCEAN BLUE 116 = COOL GRAY STONE 117 = COOL GOOPER PENNY 118 = COOL METALLIC SILVEF 120 = COOL BRIGHT RED 121 = COOL PARCHMENT 122 = COOL DARCHMENT 122 = COOL BIRCH WHITE

	LOCK-RIVETS				
PART MARK	DESCRIPTION				
096295	9/32" X 1 3/32", "A" HD W/BLACK WASHER				
096306	9/32" X 1 3/32", "B" HD W/GREEN WASHER				
096582	9/32" X 1 11/32", "A" HD W/BLUE WASHER				
096583	9/32" X 1 11/32", "B" HD W/GOLD WASHER				

FOAM TYPE SEALANT		
PART MARK	DESCRIPTION	
560185	3/16" X 3/4" X 50' ROLL	
560201	3" X 3" X 1'-10" STRIP	

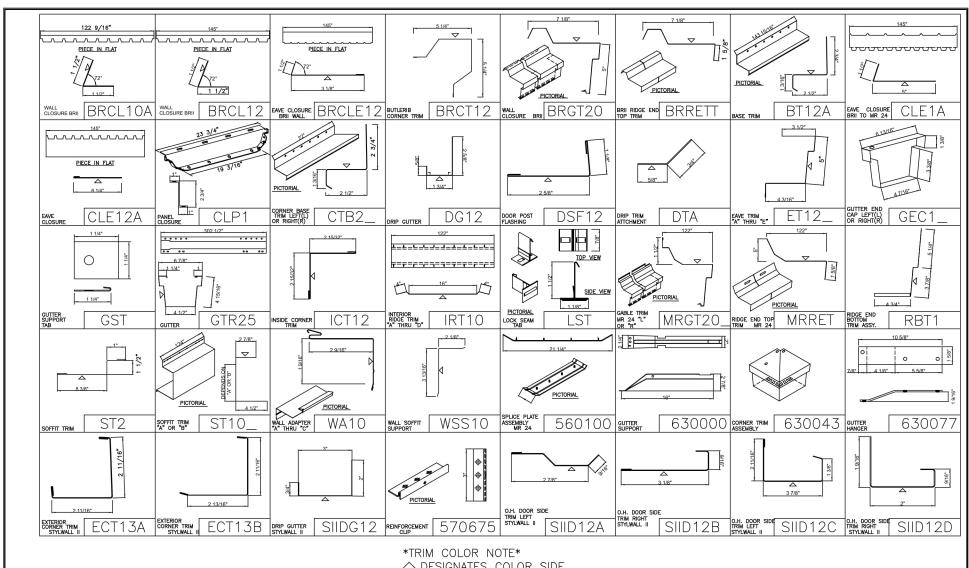
SEALANT			
PART MARK	PART MARK DESCRIPTION		
016688	GRAY SKINNING SEALANT		
025392	WHITE NON-SKINNING PANLASTIC SEALANT		
80531	IMMERBOND FLEXIBLE SEAL ADHESIVE		
560460	FLEXIBLE FLASHING ADHESIVE		

	TAPE MASTIC			
PART MARK	DESCRIPTION			
025390	3/16" X 1/4" X 40' ROLL (10 ROLLS PER BOX)			
027893	1/8" X 1" X 25' (5 ROLLS PER BOX)			
042715	1/8" X 1 1/2" X 40' ROLL			
042717	1/8" X 1" X 2'-0 1/4" STRIP (64 STRIPS PER BOX)			
541063	1/8" X 3 7/8" X 10" ROLL FOIL STRIP (5 ROLLS PER CARTON)			
560562	1/16" X 1" X 40' ROLL (5 ROLLS PER BOX)			
560564	3/16" DIA X 40' ROLL (10 ROLLS PER BOX)			

	PANEL CLOSURES		
PART MARK	DESCRIPTION		
026648	OPT. BUTLERIB RUBBER BASE CLOSURE 3'		
026649	OPT. BUTLERIB FOAM BASE CLOSURE 3'		
026654	BUTLERIB RUBBER ROOF CLOSURE 10 23/32"		
560000	MR-24 RUBBER CORRUGATION CLOSURE		
560158	MR-24 LOCK SEAM PLUG		
560348	MR-24 PLASTIC CORRUGATION CLOSURE		
570452	OPT. STYLWALL FLUTED FOAM WALL CLOSURE 2'-8"		
570555	BUTLERIB OUTSIDE FOAM WALL CLOSURE 3'		
570597	STYLWALL FLAT FOAM BASE CLOSURE 1'-4"		
570674	STYLWALL FLUTED FOAM BASE CLOSURE 1'-4"		
570730	OPT. SHADOWALL RUBBER BASE CLOSURE 10 11/16"		
570731	OPT. SHADOWALL FOAM BASE CLOSURE 3'		
570776	SHADOWALL OUTSIDE FOAM WALL CLOSURE 3'		
ARPCPG	VSR II CORRUGATION CLOSURE		
ARPHCP	VSR II HIP CORRUGATION PLUG 3'		
BRCCL12	BUTLERIB CANOPY CLOSURE 12'		
BRCL10A	OPT. BUTLERIB WALL CLOSURE 10' .75:12-3:12		
BRCL10B	OPT. BUTLERIB WALL CLOSURE 10' 3.1:12-4:12		
BRCL12	OPT. BUTLERIB WALL CLOSURE 12' .25:12-1:12		
BRCLE12	VSR II EAVE CLOSURE 12' W/BUTLERIB WALL		
CLE12A	BUTLERIB EAVE CLOSURE 12', 6 3/4"		
CLE12B	BUTLERIB EAVE CLOSURE 12" W/BUTLERIB OVER 4:12, SHADOWALL OVER 1/2:12		
CLE12C	MR-24 EAVE CLOSURE 12' W/STYLWALL OR SHADOWALL		
CLE12D	MR-24 EAVE CLOSURE 12'-0" WITH INSULATED WALL PANEL		
CLE1A	MR-24 EAVE CLOSURE 12' W/BUTLERIB		
CLP2	MR-24 PANEL CLOSURE 2'-1 1/2"		
MRCLE12A	CMR-24 EAVE CLOSURE 12'-0" WITH INSULATED WALL PANEL 10 3/4"		
MRCLE12B	CMR-24 EAVE CLOSURE 12'-0" WITH INSULATED WALL PANEL 1'-1 3/4"		
SHCL12	OPT. SHADOWALL WALL CLOSURE 12' .25:12-4:12		
SHCLE11A	VSR II EAVE CLOSURE 11' W/SHADOWALL		
SIIC12A	VSR II EAVE CLOSURE 12'-0" WITH INSULATED WALL PANEL OR FLAT STYLWALL		
SIIC12B	VSR II EAVE CLOSURE 12' W/FLUTED STYLWALL		
SIICLB1A	STYLWALL FLUTED METAL TRANSITION BASE CLOSURE 1'-4"		
SIICLB1B	STYLWALL FLAT METAL TRANSITION BASE CLOSURE 1'-4"		
TLCLB	BUTLERIB WITH TLS PARTIAL WALL HEIGHT EAVE CLOSURE		
TLCLM	MR-24 WITH TLS PARTIAL WALL HEIGHT EAVE CLOSURE		
TLCLV	VSR II WITH TLS PARTIAL WALL HEIGHT EAVE CLOSURE		

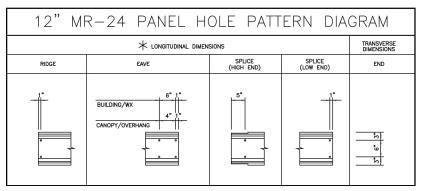
ВМС	COMMON	WAREHOUSE	PARTS	
DRAWN BY	CHECKED BY	GROUP NUMBER:		ill
BJF				

DIVIC	COMMON	WARLE TOOSE TAKTS
DRAWN BY	CHECKED BY	GROUP NUMBER:
BJF		
FIRST RELEASE DATE	REVISION DATE	IRI P-081764 I 15
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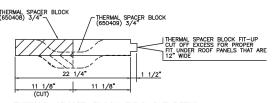


△ DESIGNATES COLOR SIDE

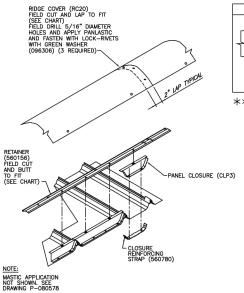
STANDARD TRIMS						
DRAWN BY	CHECKED BY		GROUP NUMBER:			
CSF	RJR					
first release date		I R	P-081768	02		
02/28/13	12/04/18	ᆫ	1 001700	02		



ALL FIELD DRILLED HOLES 5/16" DIAMETER LONGITUDINAL HOLE LOCATION DIMENSIONS ARE CRITICAL. ERRORS IN FIELD DRIVLING LOCATION WILL ACCUMULATE AND CAUSE RIDGE FIT-UP DIFFICULTY.
RIGHT HAND PANELS WILL BE FACTORY PUNCHED. ONLY LEFT HANDED PANELS REQUIRE FIELD DRILLING FOR HOLES.



THERMAL SPACER BLOCK FIELD CUT DETAIL *** FIELD CUT BLOCK AS SHOWN AND KEEP CUT PART FOR REMAINING 12" PANELS. (1) 24" BLOCK IS PROVIDED FOR (2) 12" PANELS.

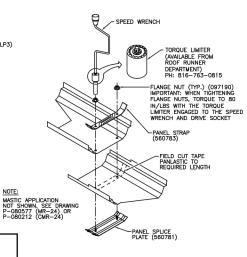


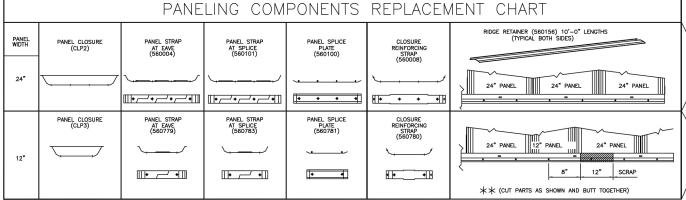
RIDGE COVER RETAINER MODIFICATION

4" 10" SCRAP LOCATE CUTOUT AT 1'-0" WIDTH PANEL LOCATION.

** RIDGE COVER CUTTING DIAGRAM

** THE RIDGE COVER/RETAINER CUTTING DIAGRAM IS ONLY APPLICABLE TO A SINGLE RUN OF THE 12" VARIABLE WIDTH PANEL LOCATED WITH IN THE INTERIOR OF THE BUILDING. CUTTING DETAIL IS NOT APPLICABLE TO MULTIPLE ADJACENT RUNS OR TO A SINGLE RUN OF 12" FANELS LOCATED AT THE ENDWALLS OF THE ROOF.





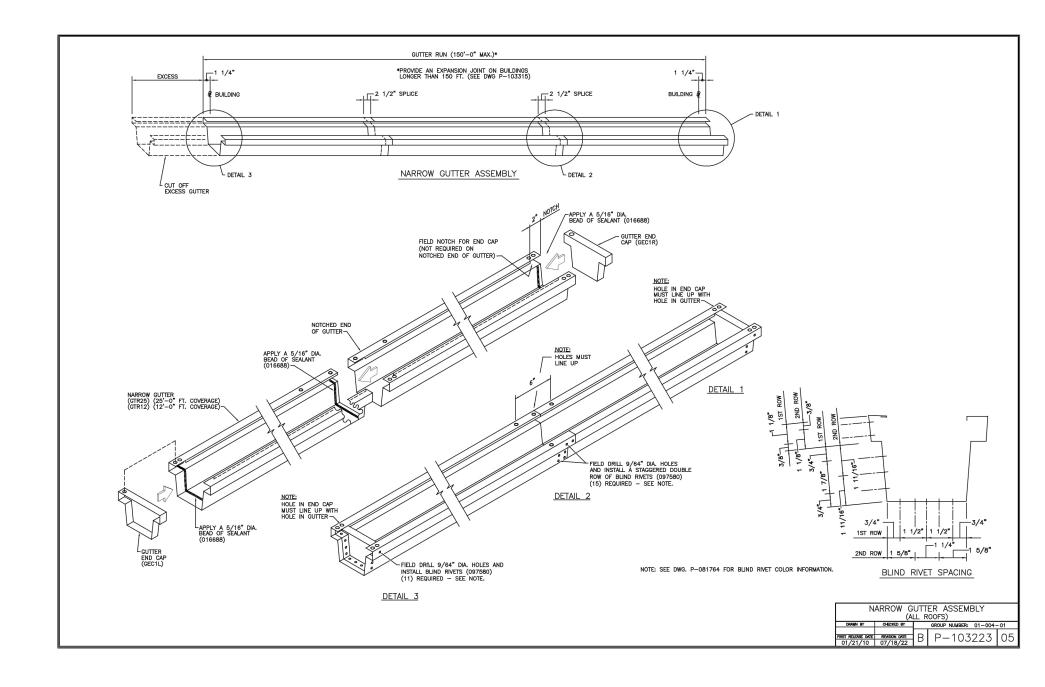
PANEL STRAP AND PANEL SPLICE PLATE

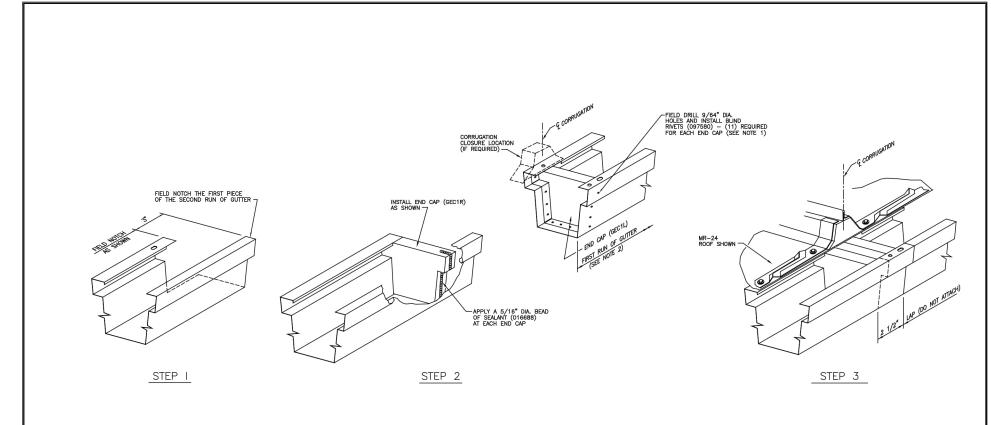
WHEN SPECIFIC DETAIL ON ERECTION DRAWINGS IS INDICATING THE USE OF A 2"-O" WIDE MR-24 PANEL THE PARTS SHOWN IN THE 24" PANEL WIDTH ROW SHOULD BE USED AS SHOWN WITHIN THE DETAIL.

NOTE:

WHEN A 1'-0" WIDE PANEL IS BEING USED IN LIEU OF THE 2'-0" WIDE PANEL THE PARTS SHOWN IN THE 12" PANEL WIDTH ROW SHOULD REPLACE THE PARTS SHOWN IN THE SPECIFIC DETAIL ON THE ERECTION DRAWINGS

1'-0" MR-24 PANEL INSTALLATION							
REPLACEMENT PART INFORMATION							
DRAWN BY	CHECKED BY	GROUP NUMBER: 00 - 000 - 00					
BSN	RLB						
FIRST RELEASE DATE		R	P-090005	102			
06/04/15	08/06/18	ט	1 030003	02			

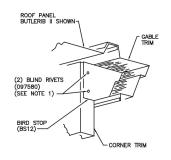




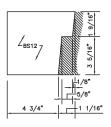
NOTES:

- 1. SEE DRAWING P-081764 FOR BLIND RIVET COLOR INFORMATION.
- 2. REFER TO DWG. P-103223 FOR "GUTTER ASSEMBLY"

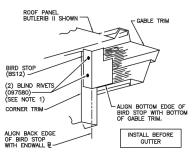
Ī	NARROW GUTTER EXPANSION JOINT GUTTER – ALL ROOFS						
- [DRAWN BY	CHECKED BY	GROUP NUMBER: 01-004-01				
L	M.B.	J.S.			I		
- [first release date	REVISION DATE	I R	P-103315	()4		
\perp	01/21/10	12/04/18		1 100010	0 1		







UNTRIMMED EAVE
BIRD STOP CUTTING DIAGRAM
FOR INSTALLATION SHOWN,
(REVERSE FOR OPPOSITE CORNER)



EAVE WITH GUTTER



1/4:12, 1/2:12, AND 1:12 ROOF SLOPES
(SEE NOTE 2)



 $\frac{\text{4:12 ROOF SLOPE}}{\text{(SEE NOTE 2)}}$

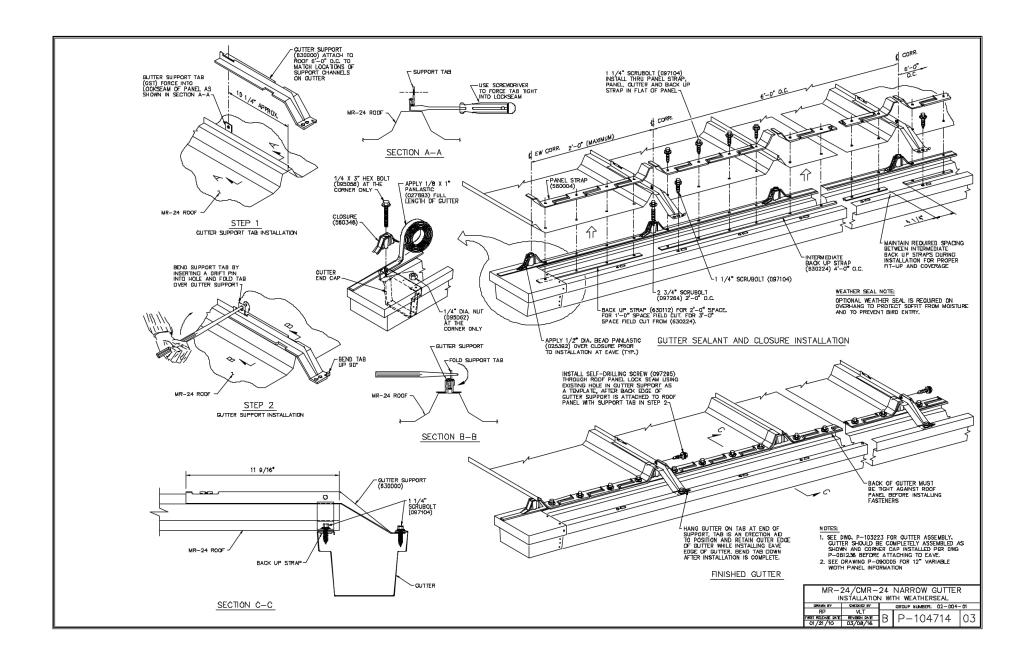
EAVE WITH GUTTER
BIRD STOP CUTTING DIAGRAM
FOR INSTALLATION SHOWN,
(REVERSE FOR OPPOSITE CORNER)

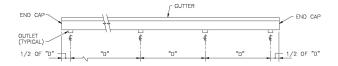
CUTTING DIMENSIONS						
WALI	_	1/4, 1/2, AND 1:12 ROOF SLOPES 4:12 ROOF SL				
		DIM. "X"	DIM. "X"	DIM. "Y"		
BUTLERIB II OR SHADOWALL		3 1/8"	1 3/4"	2 3/8"		
SHADOWALL		3 1/8"	1 3/4" 2 3/8"			
INSULATED WALL PANEL	2"	2 5/8"	1 1/4"	1 7/8"		
	2 1/2"	2 1/8"	NOT AV	ALABLE		
	3"	1 5/8"	1 1/4"	1 7/8"		
	4"	5/8"	NOT AVAILABLE			
	2"	2 1/8"	1/4"	7/8"		
TEXTURED INSULATED WALL PANEL	2 1/2"	1 5/8"	NOT A	/AILABLE		
	3"	5/8"	NOT AVAILABLE			
	4"	NOT AVAILABLE				
STYLWALL II	HIGH CORR.	2 5/8"	NOT A	/AILABLE		
SIYLWALL II	LOW CORR.	3 1/8"	NOT AVAILABLE			

NOTE:

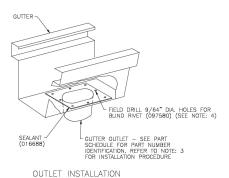
- 1. SEE DRAWING P-081764 FOR BLIND RIVET COLOR INFORMATION.
- FIELD CUT BIRD STOP AS SHOWN IN CUTTING DIAGRAM FOR STANDARD SLOPES, FOR NON-STANDARD SLOPES, USE NEAREST STD. SLOPE INFO. AND ADJUST AS REQUIRED.

BIRD STOP INSTALLATION - ALL ROOFS





 $\underline{\text{NOTE:}}$ MAXIMUM CONDUCTOR SPACING "D" MUST BE DETERMINED BASED ON RAINFALL INTENSITY.



10 -0 CONDOCION THE AND SINAIS									
EAVE HEIGHT	BUTLER SHADO SHADO' eSHAL STYLWALL eSTYLWAL eSTYLWALI INSULATE	BUTLERIB II BUTLERIB II EX SHADOWALL SHADOWALL EX 6SHADOWALL EX 6SHADOWALL II STYLWALL II FLAT STYLWALL II FLAT 6STYLWALL II FLAT 6STYLWAL		ALL WALLS		4'-0" OVERHANG		5'-0" OR 10'-0" CANOPY	
AT WALL 1/4:12 THRU 1/ ROOF SLOPE		RU 1/2:12	AT WALL >1/2:12 THRU 4:12 ROOF SLOPE						
			Q		PER OUTLET				
HEIGHT	PIPE	STRAPS	PIPE	STRAPS	PIPE	STRAPS	PIPE	STRAPS	
10'	1	2	1	2	1 1/2	2	2 1/2	2	
11'	1 1/2	3	1 1/2	3	2	3	3	3	
12'	1 1/2	3	1 1/2	3	2	3	3	3	
13'	1 1/2	3	1 1/2	3	2	3	3	3	
14'	1 1/2	3	1 1/2	3	2	3	3	3	
15'	1 1/2	3	1 1/2	3	2	3	3	3	
16' 17'	2	3	2	3	2 1/2	3	3 1/2	3	
18'	2	3	2	3		3	3 1/2	3	
19'	2	3	2	3	2 1/2	3	3 1/2	3	
20'	2	3	2	3	2 1/2	3	3 1/2	3	
21'	2 1/2	4	2 1/2	4	3	4	4	4	
22'	2 1/2	4	2 1/2	4	3	4	4	4	
23'	2 1/2	4	2 1/2	4	3	4	4	4	
24'	2 1/2	4	2 1/2	4	3	4	4	4	
25'	2 1/2	4	2 1/2	4	3	4	4	4	
26'	3	4	3	4	3 1/2	4	4 1/2	4	
27'	3	4	3	4	3 1/2	4	4 1/2	4	
28'	3	4	3	4	3 1/2	4	4 1/2	4	
29'	3	4	3	4	3 1/2	4	4 1/2	4	
30'	3	4	3	4	3 1/2	4	4 1/2	4	
31'	3 1/2	5	3 1/2	5	4	5	5	5	
32'	3 1/2	5	3 1/2	5	4	5	5	5	
33'	3 1/2	5	3 1/2	5	4	5	5	5	
34'	3 1/2	5	3 1/2	5	4	5	5	5	
35'	3 1/2	5	3 1/2	5	4	5	5	5	
36'	4	5	4	5	4 1/2	5	5 1/2	5	
37'	4	5	4	5	4 1/2	5	5 1/2	5	
38'	4	5	4	5	4 1/2	5	5 1/2	5	
39'	4	5	4	5	4 1/2	5	5 1/2	5	
40'	4	5	4	5	4 1/2	5	5 1/2	5	

10'-0" CONDUCTOR PIPE AND STRAPS

PART SCHEDULE					
PART NUMBER	DESCRIPTION				
CP410	CONDUCTOR PIPE				
4CE45	45* ELBOW				
008738	GUTTER OUTLET 1/4:12 THRU 1/2:12				
4CE75	75° ELBOW				
016688	GRAY SEALANT				
CS	CONDUCTOR STRAP (FIELD FORMED)				
640432	GUTTER OUTLET - >3:12 THRU 4:12				
640492	GUTTER OUTLET - >1/2:12 THRU 3:12				

NOTES:

- NOIES:

 1. CONDUCTOR PIPE (CP410) FURNISHED IN 10"-0" LENGTHS ONLY. FIELD CUT TO LENGTHS REQUIRED.

 2. USE (2) BUND RIVETS AT EACH PIPE JOINT.

 3. USING GUTTER OUTLET AS A PATTERN. FIELD CUT CUTTER FOR PROPER FIT. APPLY 01658B SEALANT TO UNDERSIDE OF OUTLET LIP AND ATTACH WITH (8) BLIND RIVETS.

 IMPORTANT, BE SURE TO ORIENT GUTTER AND GUTTER OUTLET ROPERLY PRIOR TO ATTACHMENT.
- 4. SEE DRAWING P-081764 FOR BLIND RIVET COLOR INFORMATION.
- 5. FOR CONDUCTOR PIPE DETAILS SEE DRAWINGS P-105225 AND P-105228.

4" CONDUCTOR PIPE INSTALLATION ALL WALLS					
DRAWN BY	CHECKED BY		GROUP NUMBER: 26-008-	- 01	
RHE	BJF	_			
FIRST RELEASE DATE	REVISION DATE	\bowtie	P-105224	08	
01/21/10	05/20/24	ו	1 100221	0	

