Butler Manufacturing
a division of BlueScope Buildings North America, Inc.

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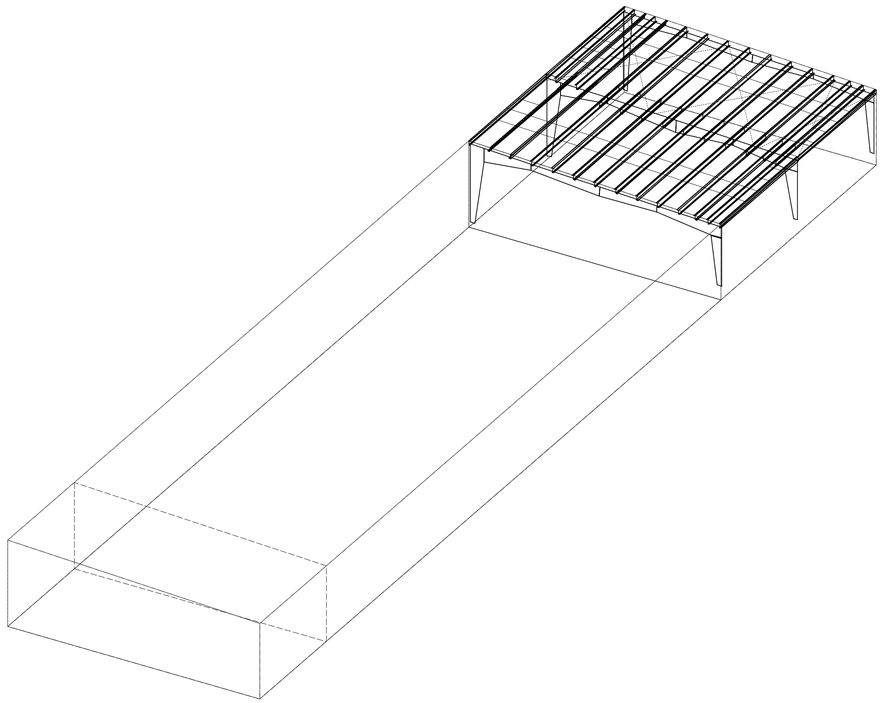
DRAWING RELEASE HISTORY

TYPE	DATE	DESCRIPTION
Permit Set	5/9/24	PERMIT SET- For Building Dept. Approval

All primary frames and brace rods are to be class III galvanized per screening document.

Existing purlins must be fully supported upon removal of the existing frame until the new frame is in place.



GENERAL NOTES

MATERIALS

	ASTM DESIGNATION	
3 PLATE WELDED SECTIONS	A529, A572, A1011, A1018	GRADE 55
COLD FORMED LIGHT GAGE SHAPES	A653, A1011	GRADE 60
BRACE RODS	A572, A510	GRADE 50
HOT ROLLED MILL SHAPES	A36, A529, A572, A588, A992	GRADE 36 OR 50
HOT ROLLED ANGLES	A529, A572, A588, A992	GRADE 50
HOLLOW STRUCTURAL SECTION (HSS)	A500	GRADE B
CLADDING	A653, A792	GRADE 50 OR GRADE 80

HIGH STRENGTH BOLT TIGHTENING REQUIREMENTS

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

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

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

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

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

PRE-TENSION ANY CONNECTION WITH DESIGNATION A325-SC. SLIP CRITICAL (SC) CONNECTIONS MUST BE FREE OF PAINT, OIL OR OTHER MATERIALS THAT REDUCE FRICTION AT CONTACT SURFACES. GALVANIZED OR LIGHTLY RUSTED SURFACES ARE ACCEPTABLE.

IN CANADA, ALL A325 AND A490 BOLTS SHALL BE "PRE-TENSIONED", EXCEPT FOR SECONDARY MEMBERS AND FLANGE BRACES.

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

INSPECTION AND TESTING

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

This document has been electronically signed and sealed by Alan Jungnitsch, PE using my Digital Signature with PE seal affixed. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copy
2024.05.09 14:15:11-05'00'

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER

05/09/2024

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

COVER SHEET

BUILDER:	MAR Building Solutions
CUSTOMER:	
LOCATION:	Lees Summit, Missouri
PROJECT:	LSMO Water Utilites
BUILDER'S PO#:	

Butler Manufacturing
VPC VERSION: 24.1.1

JOB #:	24-007756-02
DATE:	1/19/2024
DRAWN/CHECK:	ETH / AMJ
PAGE:	1

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

Building Code
Building Code: 2018 International Building Code
Building Risk/Occupancy Category: II (Standard Occupancy Structure)
Structural: 16AISC - ASD Rainfall: I: 7.00 inches per hour
Cold Form: 16AISI - ASD f'c: 3000.00 psi Concrete

Dead and Collateral Loads
Collateral Gravity: 10.00 psf
Collateral Uplift: 0.00 psf

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

Roof Live Load
Roof Live Load: 20.00 psf Not Reducible

Wind Load
Wind Speed: Vult: 115.00 (Vasd: 89.08) mph
The 'Envelope Procedure' is Used
Primaries Wind Exposure: C - Kz: 0.882
Parts Wind Exposure Factor: 0.882
Wind Enclosure: Partially Open
Topographic Factor: Kzt: 1.0000
Ground Elevation Factor: Ke: 0.9636

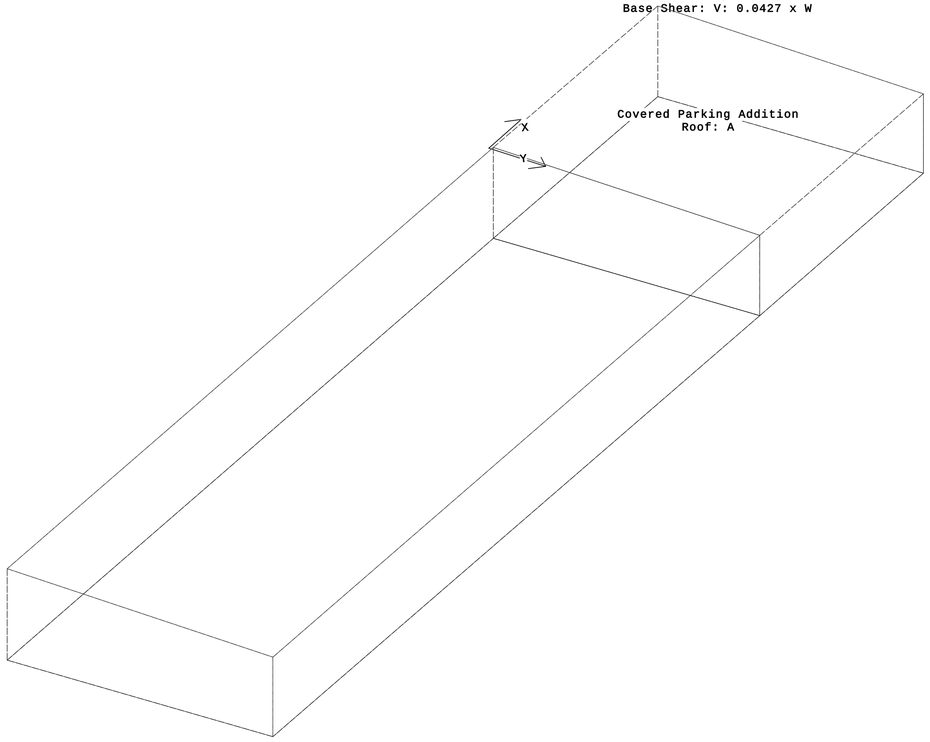
NOT Windborne Debris Region
Base Elevation: 0/0/0
Site Elevation: 1024.0 ft
Primary Zone Strip Width: 2a: 12/0/0
Parts / Portions Zone Strip Width:
Walls, a: 6/0/0
Roof(s), 0.6h: 10/9/10
Velocity Pressure: qz: 24.46, (C&C) 24.46 psf

Snow Load
Ground Snow Load: pg: 20.00 psf
Flat Roof Snow: pf: 16.80 psf
Design Snow (Sloped): ps: 16.80 psf
Rain Surcharge: 0.00 psf
Specified Minimum Roof Snow: 20.00 psf (Code)
Exposure Factor: 2 Partially Exposed - Ce: 1.00
Snow Importance: Is: 1.000
Thermal Factor: Unheated - Ct: 1.20
Ground / Roof Conversion: 0.70
Obstructed or Not Slippery

Seismic Load
Lateral Force Resisting Systems using Equivalent Force Procedure
Mapped MCE Acceleration: Ss: 12.00 %g
Mapped MCE Acceleration: S1: 7.00 %g
Site Class: Stiff soil (D) - Default
Seismic Importance: Ie: 1.000
Design Acceleration Parameter: Sds: 0.1280
Design Acceleration Parameter: Sd1: 0.1120
Seismic Design Category:: B
Seismic Snow Load: 0.00 psf
% Snow Used in Seismic: 0.00
Diaphragm Condition: Flexible
Fundamental Period Height Used: 19/3/0

Transverse Direction Parameters
System NOT detailed for Seismic
Redundancy Factor: Rho: 1.00
Fundamental Period: Ta: 0.2983
R-Factor: 3.00
Overstrength Factor: Omega: 2.50
Deflection Amplification Factor: Cd: 3.00
Base Shear: V: 0.0427 x W

Longitudinal Direction Parameters
System NOT detailed for Seismic
Redundancy Factor: Rho: 1.00
Fundamental Period: Ta: 0.1838
R-Factor: 3.00
Overstrength Factor: Omega: 2.50
Deflection Amplification Factor: Cd: 3.00
Base Shear: V: 0.0427 x W



ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
STATE OF MISSOURI
PROFESSIONAL ENGINEER
05/09/2024

PERMIT SET- For Building Dept. Approval

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

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

CODES AND LOADS

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
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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 specifications, 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 Butler Mfg drawings constitutes the builders acceptance of Butler interpretation of the contract purchase order. Unless specific design criteria concerning interface design and details are furnished as part of the contract, Butler Mfg. design assumptions shall govern.

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

CONSTRUCTION & ERECTION RESPONSIBILITY

The Builder is responsible for construction in strict accordance with 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 S16), which require L/500 tolerance of installed members. Occasional field work including shimming, cutting, coping, and drilling for final fit-up are considered part of erection. Specified field work and field welding conditions indicated on these drawings shall also be included in the erectors scope of work. See Erection Guide for shimming procedure. For building with top riding bridge cranes see Crane Data drawing for column plumb tolerance.

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

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

EXISTING STRUCTURES

Butler must be advised of any structure that is within 20 ft. of Butler's building. Load effects from snow drifting, 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 tightened. Rods should not exhibit excessive sag. For long or heavy rods, or angles it may be necessary to support the rods at mid-bay by suspending them from secondary members.

Bracing for seismic or wind loading of objects or equipment that are not a part of the 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. Filler metal shall be 70 ksi (480 MPa) tensile strength. For welds in high seismic force resisting system (Seismic Cat D, E or F), minimum Charpy V-Notch toughness shall meet AISC-341 criteria (20 ft-lbs min @ 0Deg F). Interpass temperatures shall not exceed 550Deg F (300Deg C).

SIGNAGE

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

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 if such shortages are not noted on the shipping documents upon delivery of material and acknowledged by the carriers agent. For materials concealed in bundles, boxes, or crates, shortages must be reported immediately upon unpacking. Should products get wet, bundled and crated materials must be unpacked and unbundled immediately to provide drainage of trapped moisture. See Erection Guide for proper job site storage procedure.

SEALANTS

Sealants shall be applied in strict accordance with 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 local fire code regulations including consideration of, but not limited to, building use and occupancy, all building construction materials, separation requirements, egress requirements, fire protection systems, etc. Builder shall advise Butler of any special requirements to be furnished by Butler.

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, removal of roof or wall cladding, removing or moving any flange braces or rod braces, cutting of openings for doors, windows or RTU's, correction of fabrication errors, etc. The owner shall not impose loads to this structure beyond what is specified for this building in the contract documents. 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 prior to proceeding. 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 Butler 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. Thru fastened panels will exhibit some dimpling when installed, especially when insulation is installed between panels and secondary supports. Dimpling can be minimized by careful installation, taking care not to over drive fasteners.

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

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

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

SKYLIGHTS

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

RAIN WATER RUNOFF

Drainage systems must be designed by the project professional to comply with code requirements. 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 site storage and during erection. Standard shop formulation is not designed to perform as a finish coat when exposed to environmental conditions. Members shall be kept free of the ground and properly drained during job site storage. It is the Builder's responsibility to ensure that if a finish coat is being applied over 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 #FB00031; 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.iasonline.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--AL#CA-5589-E; AZ#22225-0; AR#576; FL#30427; GA#PEF007551; ID#C-2470; IL#184-002649; KS#E-29; KY#4490; LA#EF6722; MS#E-0592; MO#E-2010007736; NC#F-0998; ND#1579PE; NJ#24GA28318800; NV#20437; OH#05898; OK#CA4170PE; RI#8838; SC#6206; SD#C-1787; TX#F4828; VA#0411001520; VA#0411001518; WA#4119; WV#C03059-00
CAN--AB#P08900; NB#F0951; NL#D0044; NS#30123; NT#P062; ON#100148796; and YT#PP134

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER

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DRAWING SCALE: NTS

ERECTION NOTES

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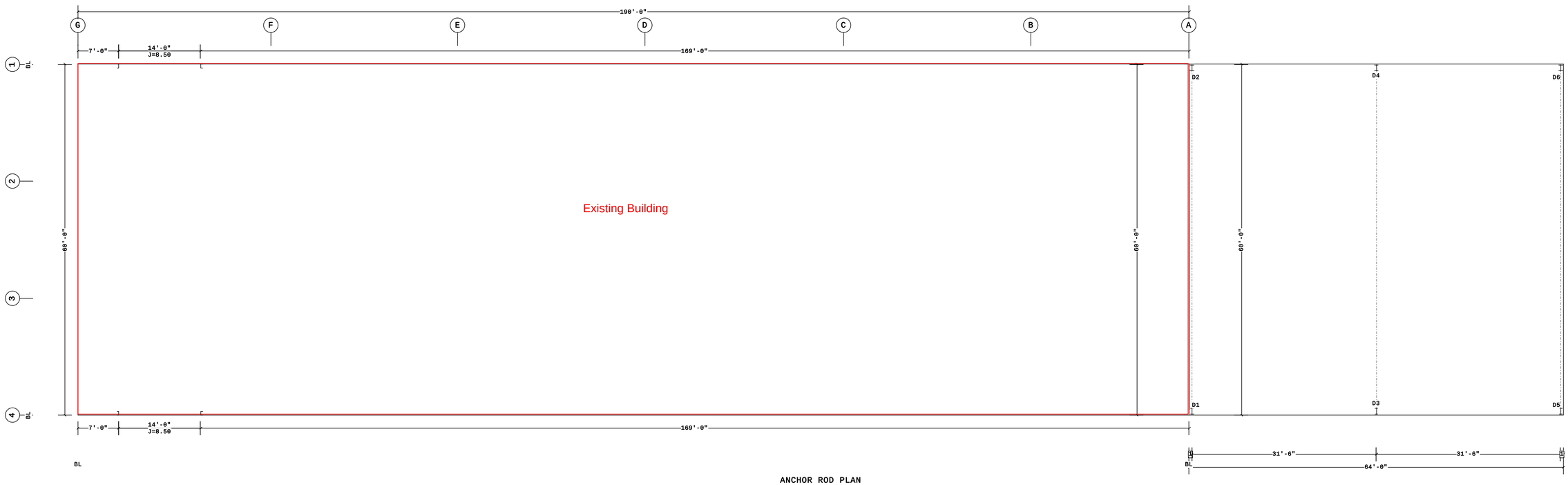

ANCHOR ROD PLAN

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER

05/09/2024

1 6"
Dimension Key

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

PERMIT SET- For Building Dept. Approval

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

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REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

ANCHOR ROD PLAN

BUILDER: MAR Building Solutions
CUSTOMER:
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VPC FILENAME: 24-007756-02

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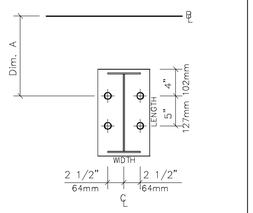
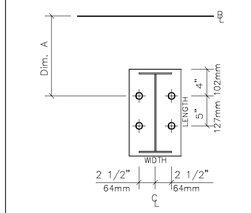
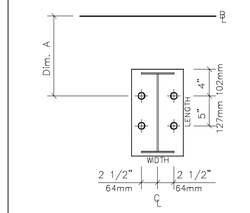


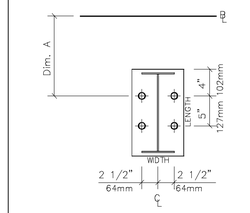
D1 (4)1" Dia.
Plate W=9", L=1'-1"
Dim: A=5 1/8"
Elev.=103'-0"



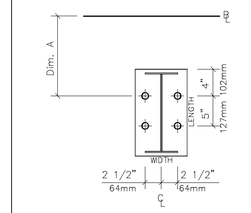
D2 (4)1" Dia.
Plate W=10", L=1'-1"
Dim: A=5 1/8"
Elev.=103'-0"



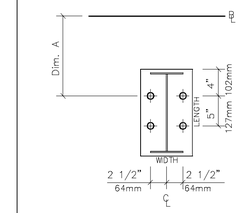
D3 (4)1" Dia.
Plate W=8", L=1'-1"
Dim: A=5 1/8"
Elev.=103'-0"



D4 (4)1" Dia.
Plate W=9", L=1'-1"
Dim: A=5 1/8"
Elev.=101'-0"

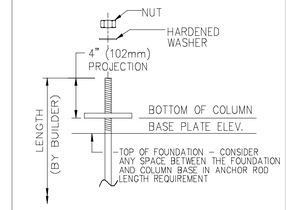


D5 (4)3/4" Dia.
Plate W=8", L=1'-1"
Dim: A=5 1/8"
Elev.=103'-0"



D6 (4)3/4" Dia.
Plate W=9", L=1'-1"
Dim: A=5 1/8"
Elev.=101'-0"

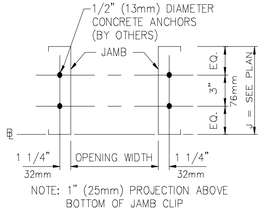
1. ANCHOR RODS, NUTS, HARDENED WASHERS AND ANY OTHER EMBEDDED ITEMS ARE TO BE FURNISHED BY CONTRACTOR.
2. ANCHOR ROD DIAMETERS WERE DETERMINED BY ALLOWABLE SHEAR AND TENSION PER AISC SPECIFICATIONS (FY=36KSI). (ASTM F1554 GRADE 36) ANCHOR ROD LENGTH, EFFECTS OF EMBEDDED ANCHOR ROD EDGE DIMENSIONS AND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



THE 4" PROJECTION ABOVE THE BOTTOM OF THE BASE PLATE IS A SUGGESTED MINIMUM TO ENSURE ADEQUATE ANCHOR ROD LENGTH. A DIFFERENT PROJECTION MAY BE REQUIRED BY THE FOUNDATION DESIGNER.

THE ANCHOR ROD PROJECTION MAY NEED TO BE CUT OFF IF THERE IS INTERFERENCE WITH OTHER PARTS.

SUGGESTED ANCHOR ROD PROJECTION



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

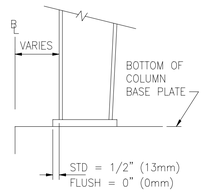
SEE PLAN FOR JAMB SIZES : J = SIZE

JAMB 'EQ.' VALUES:

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

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

FRAMED OPENING DETAIL



TYPICAL COLUMN BASE PLATE DETAIL

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER

05/09/2024

PERMIT SET- For Building Dept. Approval

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

ANCHOR ROD PLAN - DETAILS

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
PAGE: 5

VPC FILENAME: 24-007756-02

5/9/2024 13:48:20

PRIMARY AND ROOF BRACING PLAN

Bracing Part Schedule

Part	Qty	Length	Detail
04RS4002	2	40'-2"	BR01G2
04RS4004	2	40'-4"	BR01G2
05RS3305	2	33'-5"	BR01G2

ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
STATE OF MISSOURI
PROFESSIONAL ENGINEER
05/09/2024

1 6"
Dimension Key

Shape Name = Covered Parking Addition, Shape = Covered Parking

PERMIT SET- For Building Dept. Approval

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

THE 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.

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

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

PRIMARY AND ROOF BRACING PLAN

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
PAGE: 6

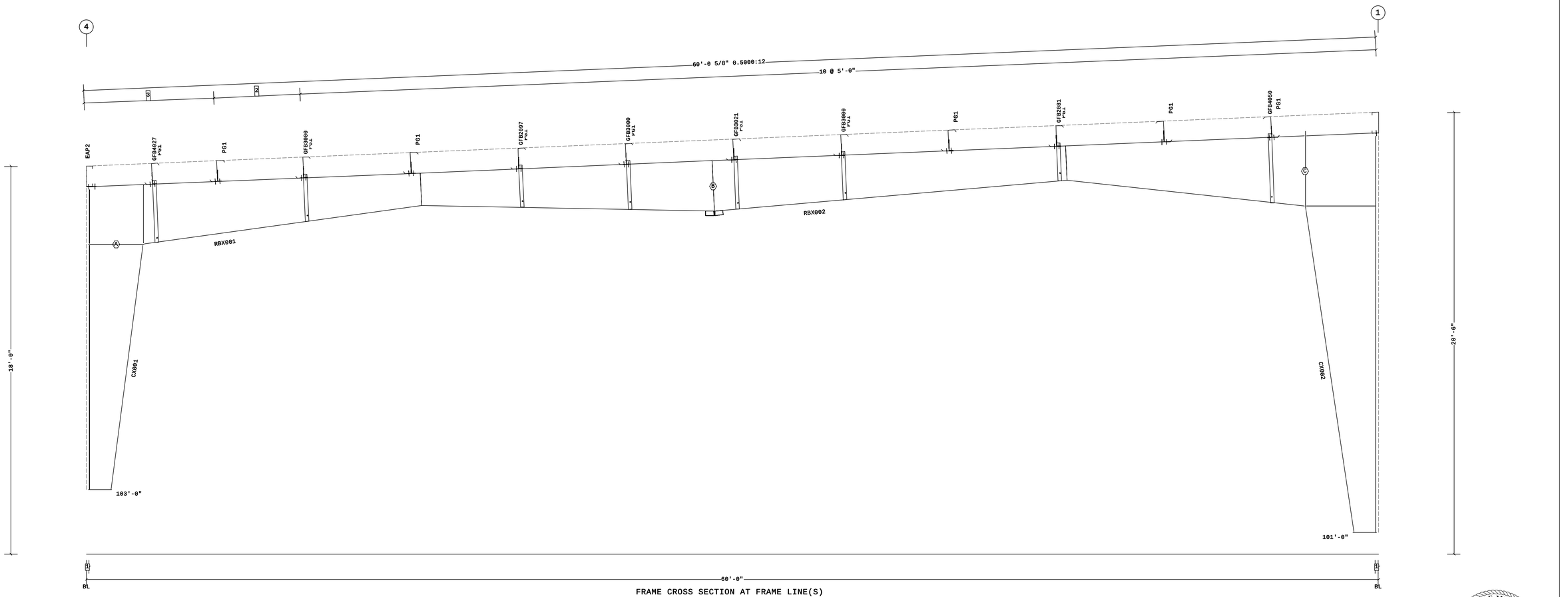
Frame Member Schedule

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX001	1	8.0000	.3750	.1644	1'-0"	2'-6"	11'-4 1/2"	416#
RBX001	2	6.0000	.3750	.1644	2'-9"	1'-6"	29'-0 13/16"	865#
	3	6.0000	.3125	.1345	1'-6"	2'-4"		
RBX002	4	6.0000	.3125	.1345	2'-4"	1'-7"	27'-6 3/4"	806#
	5	6.0000	.3750	.1875	1'-7"	3'-3"		
CX002	6	9.0000	.3750	.1875	1'-0"	3'-3"	18'-6 7/16"	848#

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo
A	10	A325	3/4"	2 1/2"	5/8"	4	1	0097284
B	10	A325	3/4"	2 1/2"	3/8"	2	3	0097284
C	12	A325	3/4"	2 1/2"	1/2"	4	2	0097284

Frame Clearances
Horiz. Clearance between members 1(CX001) and 6(CX002): 53'-11 3/4"
Vert. Clearance at member 1(CX001): 14'-4 1/2"
Vert. Clearance at member 6(CX002): 16'-1 1/4"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S)

3 2 @ 3'-0 5/16"
2 4'-0"
1 1 5/8"
Dimension Key

Shape Name = Covered Parking Addition Wall 4, Frame 1

ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER
STATE OF MISSOURI
05/09/2024

PERMIT SET- For Building Dept. Approval

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

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

FRAME CROSS SECTION AT FRAME LINE(S)

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
PAGE: 7

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5/9/2024 13:48:22

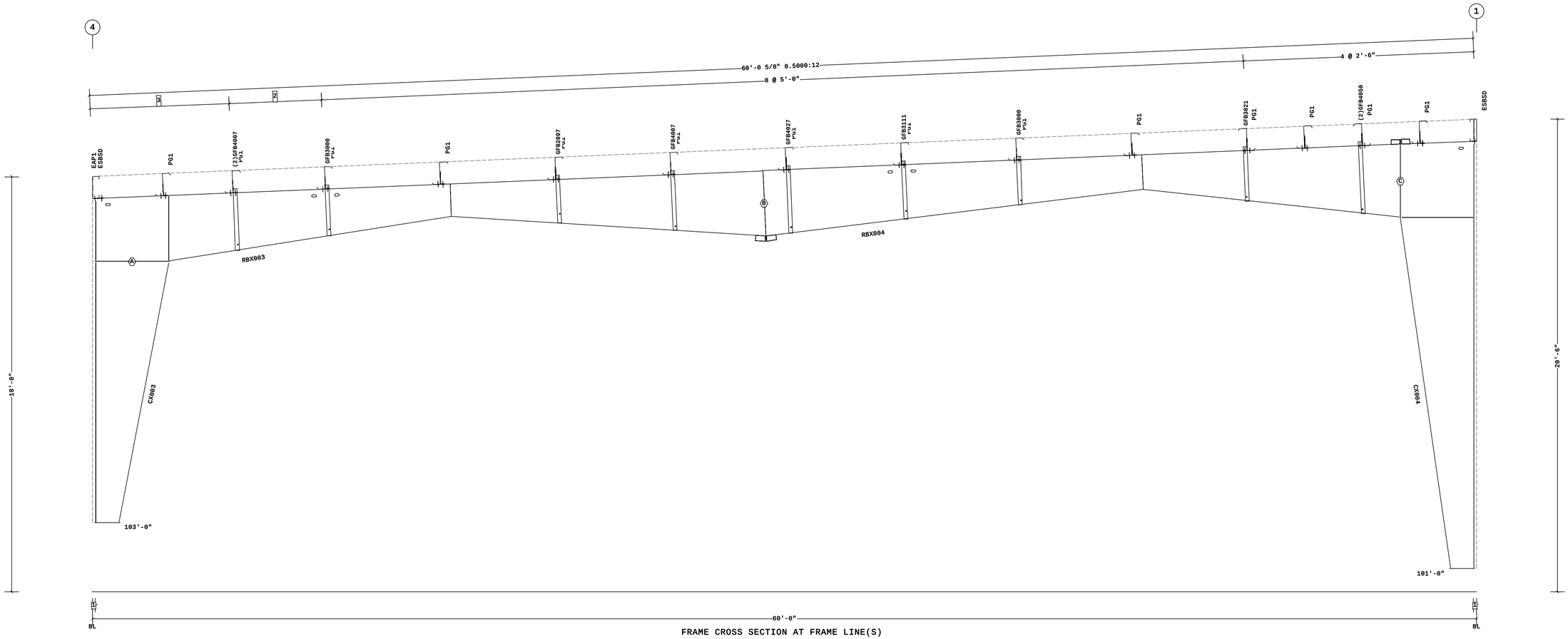
Frame Member Schedule

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX003	1	6.0000	.5000	.1875	1'-0"	3'-2"	11'-3 7/8"	456#
RBX003	2	6.0000	.3750	.1875	2'-10"	1'-5"	29'-0 13/16"	981#
	3	6.0000	.3750	.1644	1'-5"	2'-10"		
RBX004	4	6.0000	.3125	.1644	2'-10"	1'-6"	27'-7 7/8"	922#
	5	6.0000	.5000	.1875	1'-6"	3'-2"		
CX004	6	8.0000	.5000	.1875	1'-0"	3'-2"	18'-6 3/8"	913#

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo
A	6	A325	3/4"	2 1/2"	5/8"	2	1	0097284
B	8	A325	3/4"	2 1/2"	3/8"	1	3	0097284
C	10	A325	3/4"	2 1/2"	1/2"	4	1	0097284

Frame Clearances
Horiz. Clearance between members 1(CX003) and 6(CX004): 53'-4 3/4"
Vert. Clearance at member 1(CX003): 14'-3 7/8"
Vert. Clearance at member 6(CX004): 16'-2 5/16"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S)

3 2 @ 3'-0 5/16"
2 4'-0"
1 1 5/8"
Dimension Key

Shape Name = Covered Parking Addition Wall 4, Frame 2

ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
STATE OF MISSOURI
PROFESSIONAL ENGINEER
05/09/2024

PERMIT SET- For Building Dept. Approval

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

THE 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.

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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

5/9/2024 13:48:23

FRAME CROSS SECTION AT FRAME LINE(S)

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
PAGE: 8

VPC FILENAME: 24-007756-02

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Frame Member Schedule

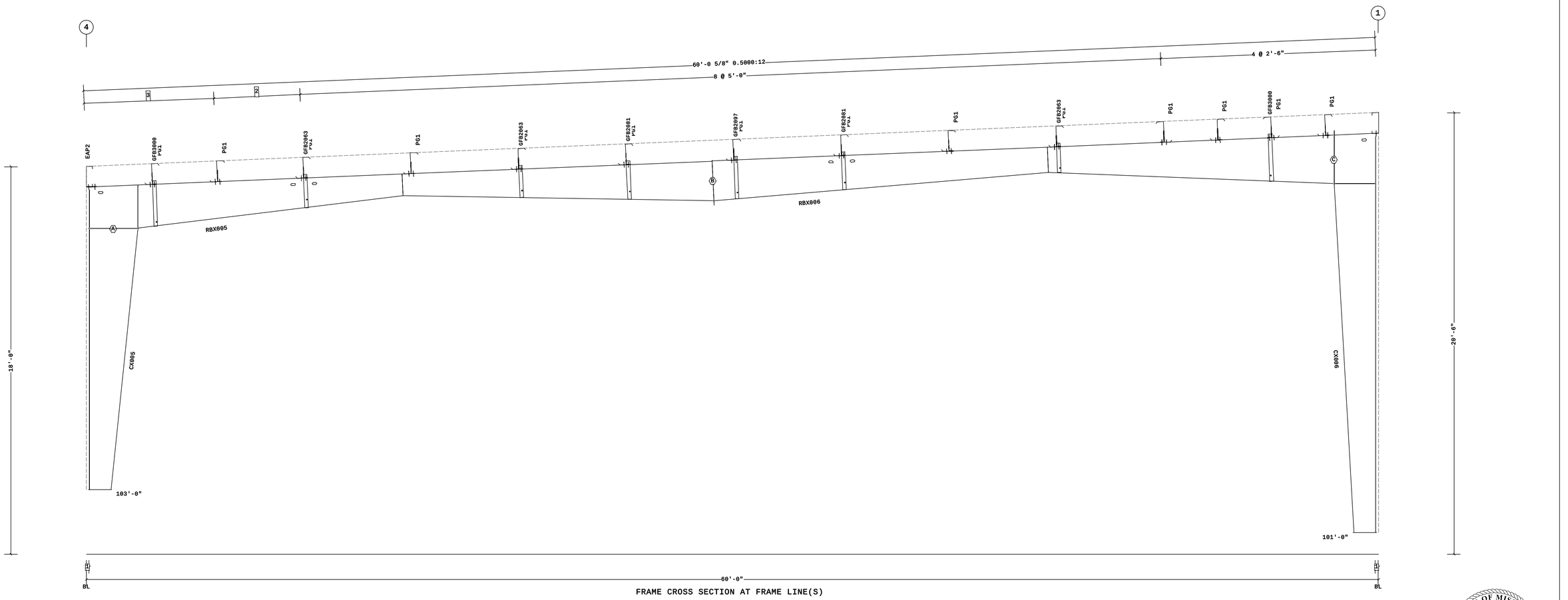
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX005	1	6.0000	.3125	.1345	1'-0"	2'-3"	12'-1 1/2"	293#
RBX005	2	5.0000	.3125	.1345	2'-0"	1'-0"	29'-0 3/4"	557#
	3	5.0000	.2500	.1345	1'-0"	1'-10"		
RBX006	4	5.0000	.2500	.1345	1'-10"	1'-2"	28'-10 13/16"	614#
	5	5.0000	.3750	.1644	1'-2"	2'-3"		
CX006	6	8.0000	.3750	.1644	1'-0"	1'-11"	18'-6 7/16"	620#

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo
A	8	A325	3/4"	2 1/2"	1/2"	3	1	0097284
B	8	A325	3/4"	2 1/2"	3/8"	1	3	0097284
C	12	A325	3/4"	2 1/2"	1/2"	4	2	0097284

Frame Clearances

Horiz. Clearance between members 1(CX005) and 6(CX006): 55'-6 3/4"
Vert. Clearance at member 1(CX005): 15'-1 1/2"
Vert. Clearance at member 6(CX006): 17'-1 15/16"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S)

3 2 @ 3'-0 5/16"
2 4'-0"
1 1 5/8"
Dimension Key

Shape Name = Covered Parking Addition Wall 4, Frame 3

05/09/2024

PERMIT SET- For Building Dept. Approval

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.
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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

FRAME CROSS SECTION AT FRAME LINE(S)

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
PAGE: 9

VPC FILENAME: 24-007756-02

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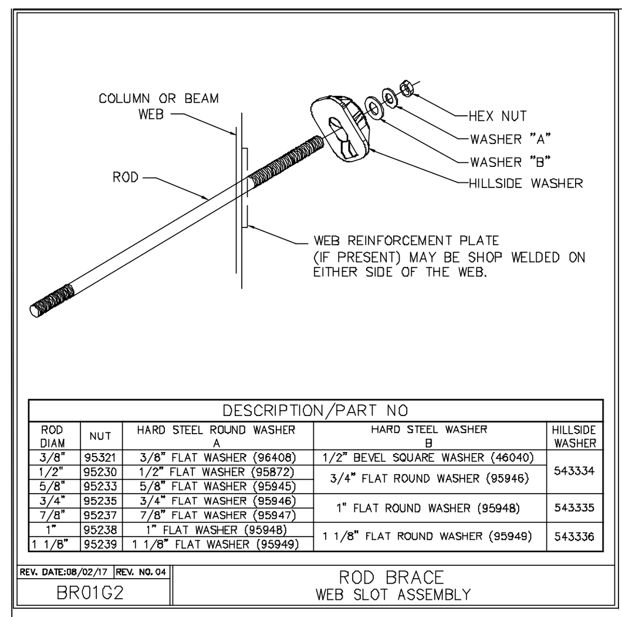

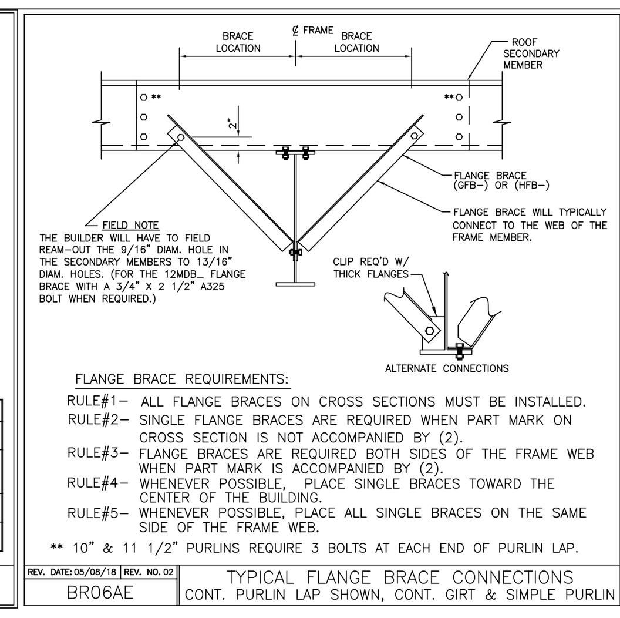

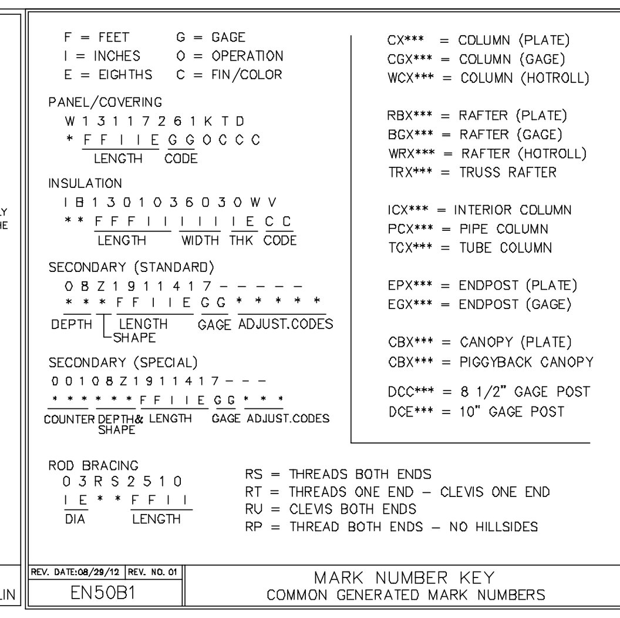

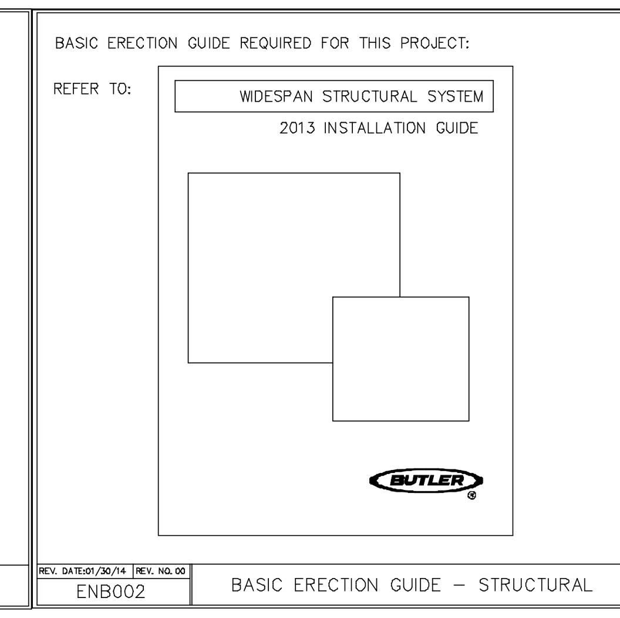

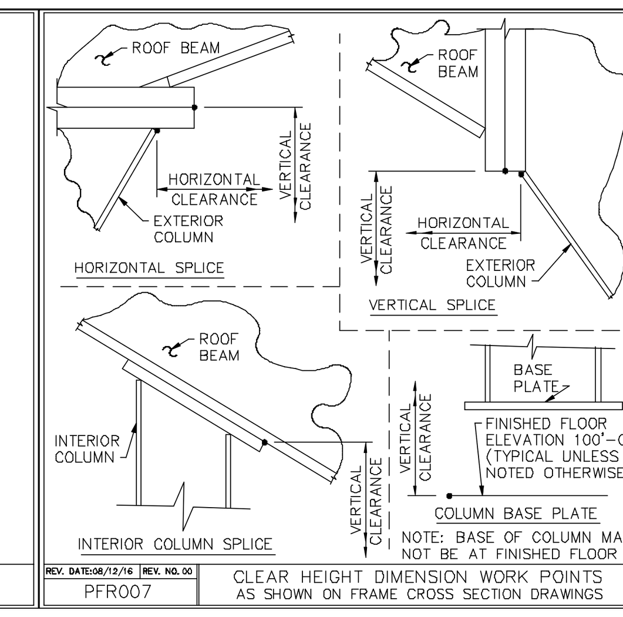

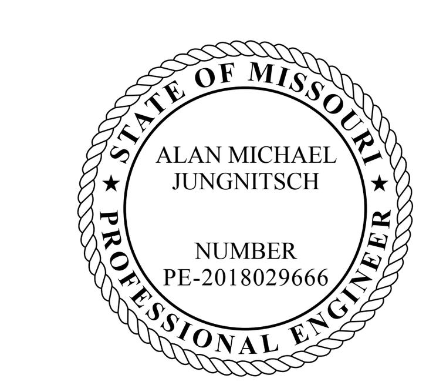

05/09/2024

PERMIT SET- For Building Dept. Approval

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.
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BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

PRIMARY BRACING SED'S

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
PAGE: 10

Secondary Part Schedule

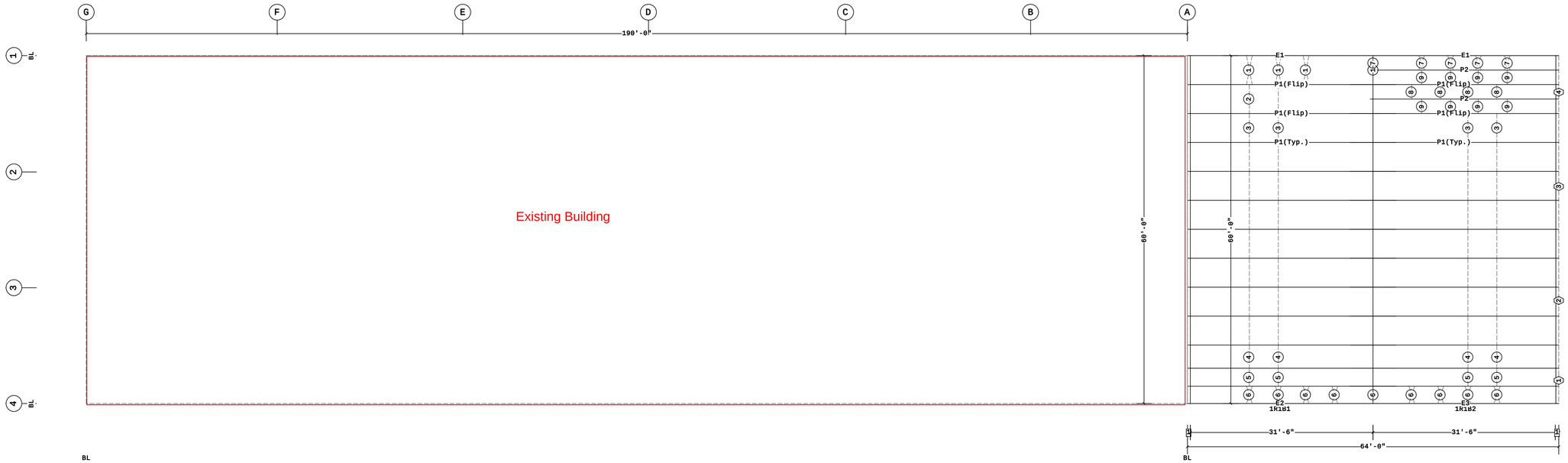
Mark	Part	Thick.	Depth	Lap	Detail
E1	00111HS3111411030	0.1130	11 1/2"		BR09W2
E2	00111ES3111411030	0.1130	11 1/2"		RS12PF,RS12PE,RS12PJ
E3	00211ES3111411030	0.1130	11 1/2"		RS12PF,RS12PE,RS12PJ
P1	11Z3511411B5B3	0.1130	11 1/2"	3'-10 1/2"	RS02T1,RS01U1
P2	11Z3205411BBB3	0.1130	11 1/2"		RS02T1,RS01TC

Secondary Bracing Schedule

Id	Qty	Mark No	Spacing
1	7	PBA0503	5'-0"
2	30	CPBB050108(Typ.	5'-0"
3	4	CPBC050306	5'-0"
4	4	CPBB040108	4'-0"
5	4	CPBB030114	3'-0 5/16"
6	17	PBA0304	3'-0 5/16"
7	9	PBA0209	2'-6"
8	4	CPBC020906	2'-6"
9	8	CPBA020510	2'-6"

See SED:
BR09K5, BR09JG, BR09RY, BR09RZ, BR09PP
BR09JH, BR09JR, BR09K2, BR09JP

Part Mark Key
1 001SGA08001
2 001SGA19054
3 001SGA19114
4 001SGA12054



ROOF SECONDARY PLAN

1 6"
Dimension Key

Shape Name = Covered Parking Addition, Shape = Covered Parking

PERMIT SET- For Building Dept. Approval

ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
STATE OF MISSOURI
PROFESSIONAL ENGINEER
05/09/2024

1. UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.
2. FLANGE BRACES ARE AN INTEGRAL PART OF THE STABILITY OF THE STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION OF WALL AND ROOF SHEETS.
3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.

THE 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.

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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

ROOF SECONDARY PLAN

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
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DRAWN/CHECK: ETH / AMJ
PAGE: 11

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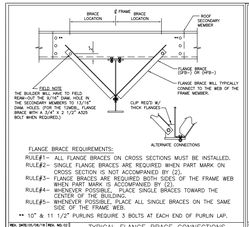


FLANGE BRACE REQUIREMENTS:

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

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

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

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

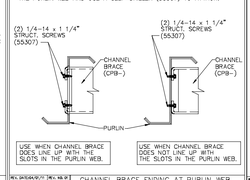
RULE#5– WHENEVER POSSIBLE, PLACE ALL SINGLE BRACES ON THE SAME SIDE OF THE FRAME WEB.

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

BRO6AE | TYPICAL FLANGE BRACE CONNECTIONS
CONT. PURLIN LAP SHOWN, CONT. GIRT & SIMPLE PURLIN

ERECTION NOTE:

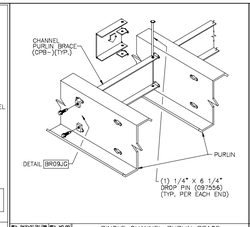
WHEN A CHANNEL BRACE DOES NOT LINE UP WITH ANOTHER CHANNEL BRACE OR THE SLOTS IN THE PURLIN WEB FOR A DROP PIN CONNECTION BEND THE CHANNEL TABS TOWARD THE PURLIN WEB AND USE A SELF-DRILLER (S5307) TO ATTACH.



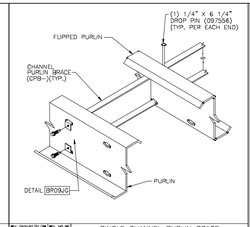
USE WHEN CHANNEL BRACE DOES LINE UP WITH THE SLOTS IN THE PURLIN WEB.

USE WHEN CHANNEL BRACE DOES NOT LINE UP WITH THE SLOTS IN THE PURLIN WEB.

BRO9JG | CHANNEL BRACE ENDING AT PURLIN WEB
SELF-DRILLER WITH BENT TABS



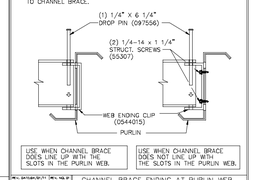
BRO9JH | SINGLE CHANNEL PURLIN BRACE
ENDING AT PURLIN WEB LOCATION



BRO9JP | SINGLE CHANNEL PURLIN BRACE
PURLIN ENDING AT REVERSE INTERMEDIATE LOCATION

ERECTION NOTE:

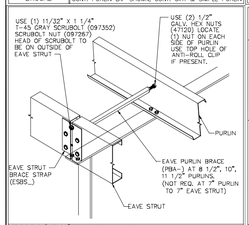
CHANNEL BRACES THAT END AT A PURLIN WEB, BUT DO NOT HAVE TABS TO BEND AND SECURE, INSERT CLIP (544015) THROUGH WEB SLOTS AND USE A DROP PIN TO ATTACH TO CHANNEL BRACE.



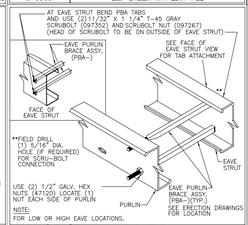
USE WHEN CHANNEL BRACE DOES LINE UP WITH THE SLOTS IN THE PURLIN WEB.

USE WHEN CHANNEL BRACE DOES NOT LINE UP WITH THE SLOTS IN THE PURLIN WEB.

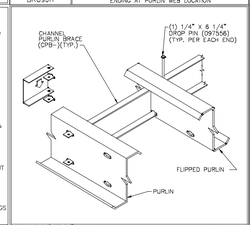
BRO9JR | CHANNEL BRACE ENDING AT PURLIN WEB
WEB ENDING CLIP WITH DROP PIN



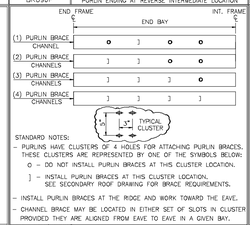
BRO9K2 | EAVE BRACE STRAP AND EAVE PURLIN BRACE
LOCATED AT EAVE – CENTERLINE OF FRAME



BRO9K5 | EAVE STRUT BRACE



BRO9PP | SINGLE CHANNEL PURLIN BRACE
REVERSE TOP FLANGE LOCATION



STANDARD NOTES:

– PURLINS HAVE CLUSTERS OF 4 HOLES FOR ATTACHING PURLIN BRACES. THESE CLUSTERS ARE REPRESENTED BY ONE OF THE SYMBOLS BELOW:

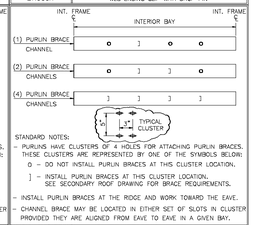
O – DO NOT INSTALL PURLIN BRACES AT THIS CLUSTER LOCATION.

] – INSTALL PURLIN BRACES AT THIS CLUSTER LOCATION. SEE SECONDARY ROOF DRAWING FOR BRACE REQUIREMENTS.

– INSTALL PURLIN BRACES AT THE RIDGE AND WORK TOWARD THE EAVE.

– CHANNEL BRACE MAY BE LOCATED IN EITHER SET OF SLOTS IN CLUSTER PROVIDED THEY ARE ALIGNED FROM EAVE TO EAVE IN A GIVEN BAY.

BRO9RY | PURLIN BRACE CLUSTER LOCATION
END BAY CHANNEL LOCATION



STANDARD NOTES:

– PURLINS HAVE CLUSTERS OF 4 HOLES FOR ATTACHING PURLIN BRACES. THESE CLUSTERS ARE REPRESENTED BY ONE OF THE SYMBOLS BELOW:

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– INSTALL PURLIN BRACES AT THE RIDGE AND WORK TOWARD THE EAVE.

– CHANNEL BRACE MAY BE LOCATED IN EITHER SET OF SLOTS IN CLUSTER PROVIDED THEY ARE ALIGNED FROM EAVE TO EAVE IN A GIVEN BAY.

BRO9RZ | PURLIN BRACE CLUSTER LOCATION
INTERIOR BAY CHANNEL LOCATION

BRO9W2 | HIGH EAVE PURLIN BRACE
ALL WALL PANEL TYPE

EN51B1 | SECONDARY PART MARK NUMBER
COMMON GENERATED MARK NUMBERS

EN51B2 | SPECIAL SECONDARY PART MARK KEY
COMMON GENERATED MARK NUMBERS

EN51B3 | SECONDARY BUNDLE LOCATION KEY
ALL SECONDARY DEPTHS

1. UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.
2. FLANGE BRACES ARE AN INTEGRAL PART OF THE STABILITY OF THE STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION OF WALL AND ROOF SHEETS.
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STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER
05/09/2024

PERMIT SET- For Building Dept. Approval

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

ROOF SECONDARY SED'S (a)

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

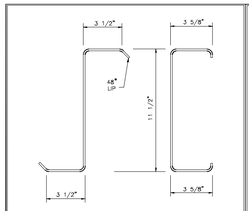
BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

Butler Manufacturing
VPC VERSION: 24.1.1

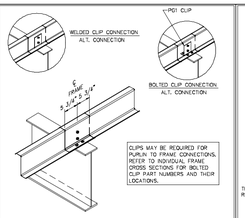
JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
PAGE: 12

VPC FILENAME: 24-007756-02

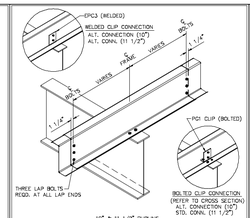
5/3/2024 SEDSheet 12:52:16



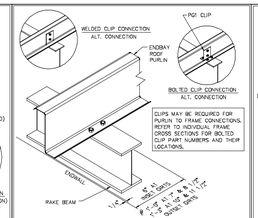
EN53H1 — PURLIN / GIRT, 11 1/2" 292mm



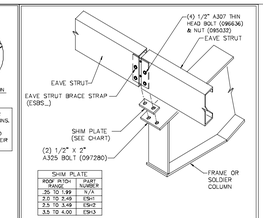
RS01TC — PURLINS AT INTERIOR FRAME, SIMPLE PURLINS W/CLIP



RS01U1 — PURLINS AT INTERIOR FRAME, CONTINUOUS PURLINS

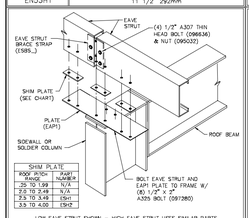


RS02T1 — PURLIN CONNECTION TO END FRAME, CONTINUOUS PURLINS



SHIM PLATE	
ROOF PITCH RANGE	PART NUMBER
.25 TO 1.99	N/A
2.0 TO 3.49	ESH1
3.5 TO 3.49	ESH2
3.5 TO 4.00	ESH3

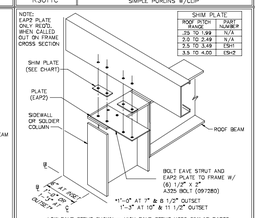
RS12PA — EAVE STRUT CONNECTION AT INTERIOR FRAME



SHIM PLATE	
ROOF PITCH RANGE	PART NUMBER
.25 TO 1.99	N/A
2.0 TO 3.49	N/A
3.5 TO 3.49	ESH1
3.5 TO 4.00	ESH2

LOW EAVE STRUT SHOWN – HIGH EAVE STRUT USES SIMILAR PARTS.

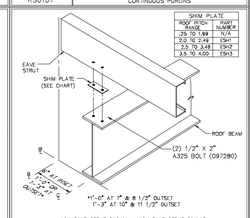
RS12PE — EAVE STRUT W/ ATTACHMENT PLATE, INTERIOR FRAME



SHIM PLATE	
ROOF PITCH RANGE	PART NUMBER
.25 TO 1.99	N/A
2.0 TO 3.49	ESH1
3.5 TO 3.49	ESH2
3.5 TO 4.00	ESH3

LOW EAVE STRUT SHOWN – HIGH EAVE STRUT USES SIMILAR PARTS.

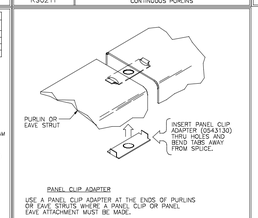
RS12PF — EAVE STRUT W/ ATTACHMENT PLATE, END FRAME



SHIM PLATE	
ROOF PITCH RANGE	PART NUMBER
.25 TO 1.99	N/A
2.0 TO 3.49	ESH1
3.5 TO 3.49	ESH2
3.5 TO 4.00	ESH3

LOW EAVE STRUT SHOWN – HIGH EAVE STRUT SIMILAR

RS12PH — EAVE STRUT CONNECTION AT END FRAME



PANEL CLIP ADAPTER

USE A PANEL CLIP ADAPTER AT THE ENDS OF PURLINS OR EAVE STRUTS WHERE A PANEL CLIP OR PANEL EAVE ATTACHMENT MUST BE MADE.

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

PERMIT SET- For Building Dept. Approval

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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

ROOF SECONDARY SED'S (b)

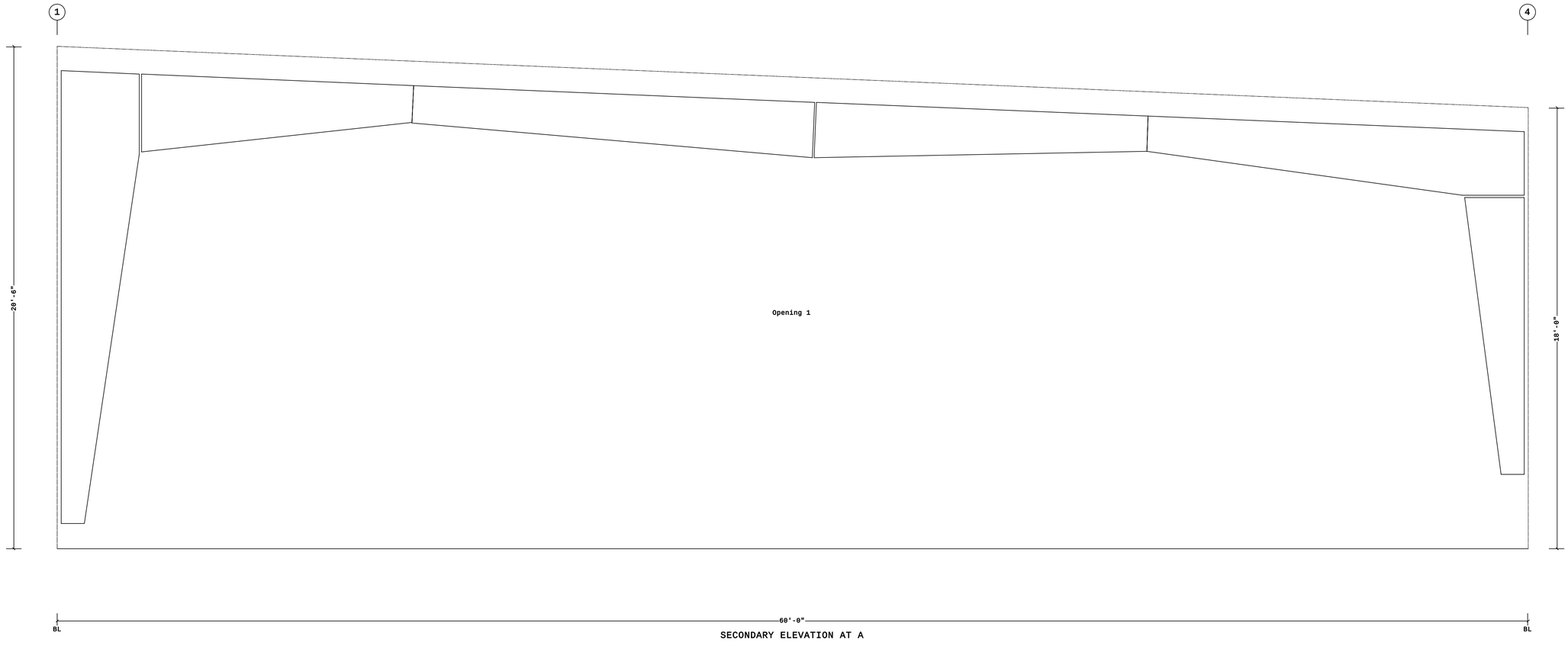
BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
PAGE: 13

VPC FILENAME: 24-007756-02

5/3/2024 SEDSheet 12:52:18



SECONDARY ELEVATION AT A

ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
STATE OF MISSOURI
PROFESSIONAL ENGINEER

05/09/2024

Shape Name = Covered Parking Addition, Wall = 1

PERMIT SET- For Building Dept. Approval

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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

SECONDARY ELEVATION AT A

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

BUTLER®
Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
DATE: 1/19/2024
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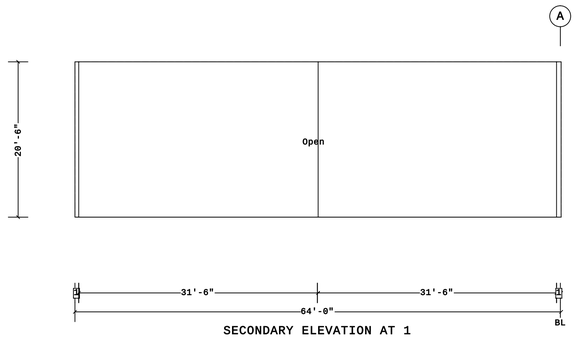

SECONDARY ELEVATION AT 1

1 6"
Dimension Key

Shape Name = Covered Parking Addition, Wall = 2

05/09/2024

PERMIT SET- For Building Dept. Approval

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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

SECONDARY ELEVATION AT 1

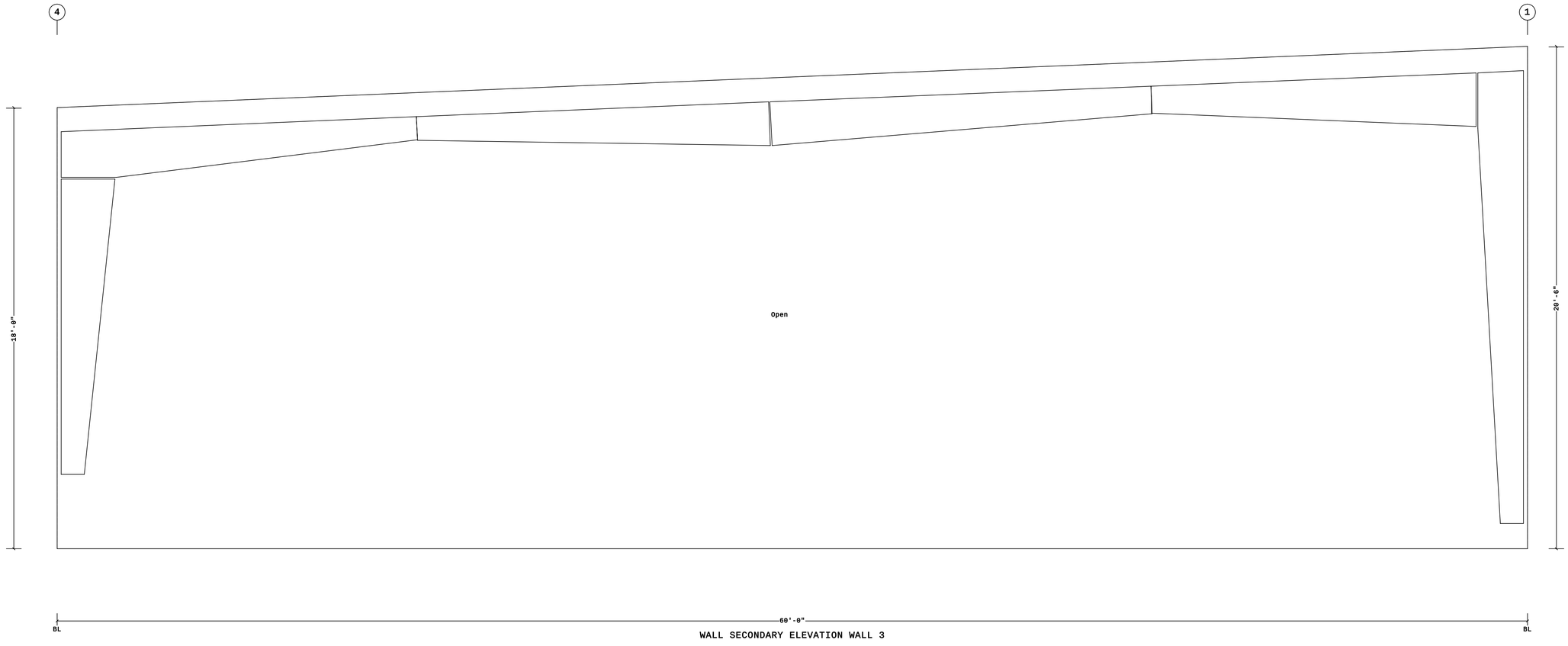
REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

BUTLER
Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
PAGE: 15



WALL SECONDARY ELEVATION WALL 3

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER

05/09/2024

Shape Name = Covered Parking Addition, Wall = 3

PERMIT SET- For Building Dept. Approval

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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

WALL SECONDARY ELEVATION WALL 3

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

BUTLER®
Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
PAGE: 16

VPC FILENAME: 24-007756-02

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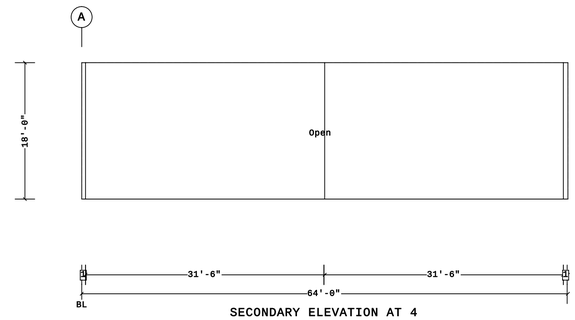

SECONDARY ELEVATION AT 4

05/09/2024

1 6"
Dimension Key

PERMIT SET- For Building Dept. Approval

Shape Name = Covered Parking Addition, Wall = 4

1. UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) WO WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.
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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

SECONDARY ELEVATION AT 4

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

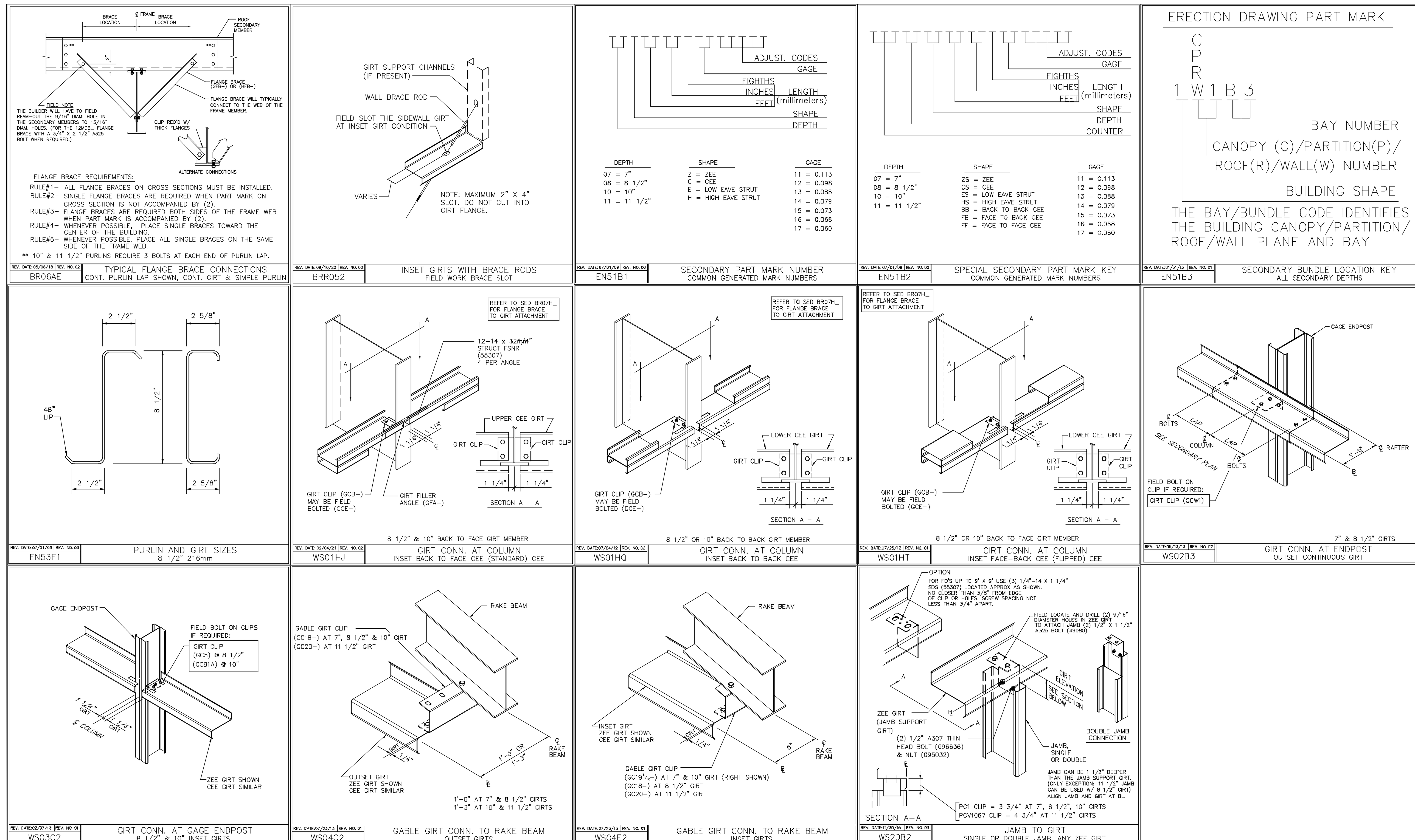
BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

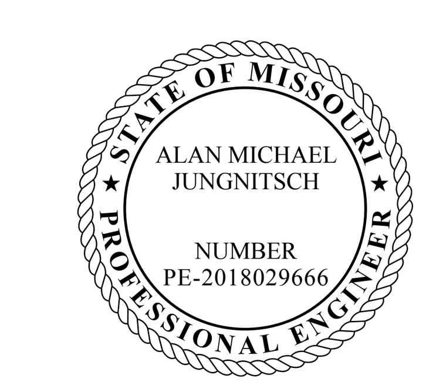
BUTLER®
Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
PAGE: 17

VPC FILENAME: 24-007756-02

5/9/2024 13:48:29





PERMIT SET- For Building Dept. Approval

1. UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.
2. FLANGE BRACES ARE AN INTEGRAL PART OF THE STABILITY OF THE STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION OF WALL AND ROOF SHEETS.
3. REMOVAL OR ALTERATION OF ANY COMPONENT IS PROHIBITED.

THE 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.

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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

WALL SECONDARY SED'S (a)

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

BUILDER:	MAR Building Solutions
CUSTOMER:	
LOCATION:	Lees Summit, Missouri
PROJECT:	LSMO Water Utilites
BUILDER'S PO#:	

BUTLER
Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
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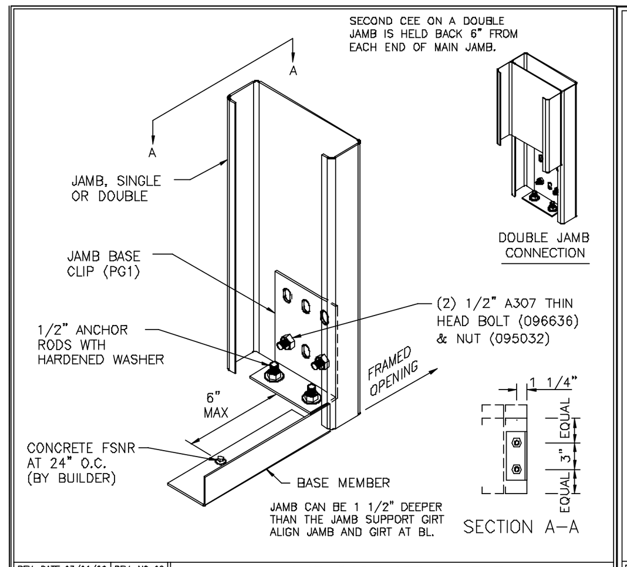
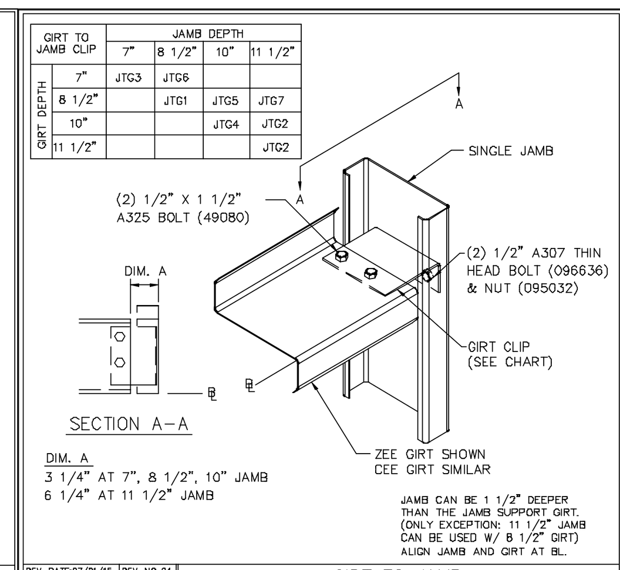
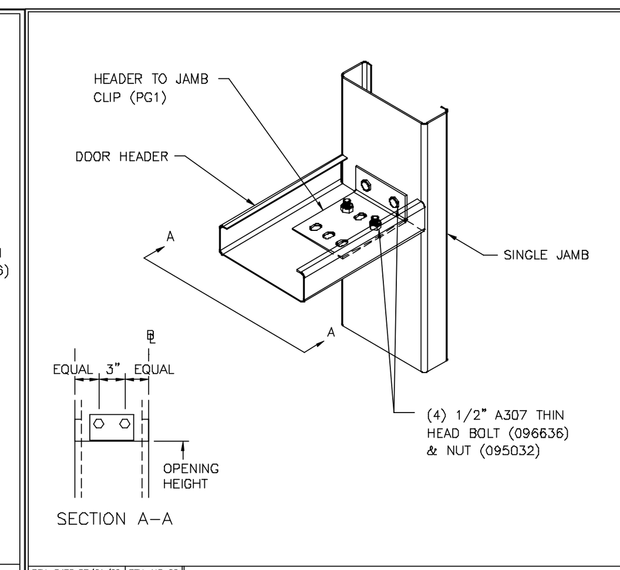


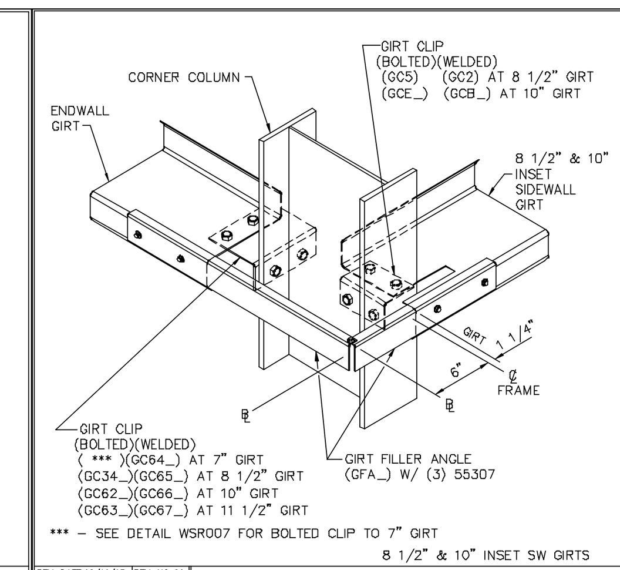
WS20B8 JAMB BASE ATTACHMENT SINGLE OR DOUBLE JAMB



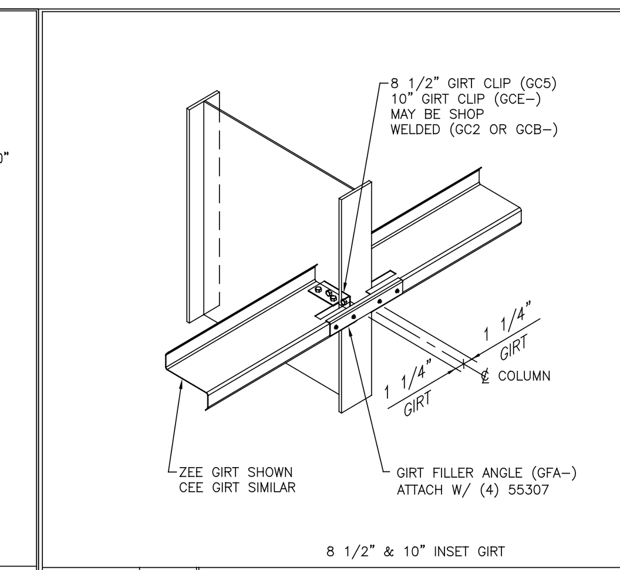
WS20F2 GIRT TO JAMB SINGLE JAMB



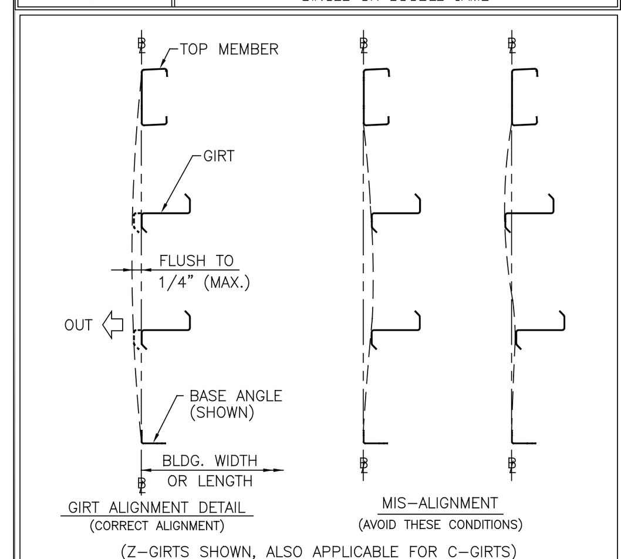
WS20F9 HEADER TO JAMB ANY HEADER, ANY SINGLE JAMB



WSR004 GIRT CONN. AT CORNER COLUMN ANY INSET GIRT AT EW, INSET GIRT AT SW



WSR063 GIRT CONN. AT COLUMN INSET GIRTS



WSR065 WALL SECONDARY FRAMING ALIGNMENT

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER
05/09/2024

PERMIT SET- For Building Dept. Approval

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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

WALL SECONDARY SED'S (b)

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

BUTLER
Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
PAGE: 19

Covering Schedule

Id	Qty	Start Length	Qty	Stagger Length	Type	Gage	OP	Fin.	Color	Direction
#7	16	41'-0 5/8"	16	36'-0 5/8"	MR24	24	22	X	01	Left to Right
#10	16	20'-5 1/2"	16	25'-5 1/2"	MR24	24	11	X	01	Left to Right

Oper. Code:22=SQ,NT
Oper. Code:11=SQ,SQ
Finish:X=Special Request
Color:01=LSMO PEWTER

Trim Schedule

Id	Parts
T1	0630043
T2	0630043

Color	Details
Match Wall Color	
Match Wall Color	

ROOF COVERING PLAN

Planograph Schedule

Id	Details
T1	P-080572,P-081236,P-103223,P-104542,P-104714
T2	P-080572,P-104549

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER

05/09/2024

PERMIT SET- For Building Dept. Approval

Shape Name = Covered Parking Addition, Shape = Covered Parking

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

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BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

ROOF COVERING PLAN

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
PAGE: 20

VPC FILENAME: 24-007756-02

5/9/2024 13:48:30

COVERING ELEVATION AT A

ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
STATE OF MISSOURI
PROFESSIONAL ENGINEER
05/09/2024

Shape Name = Covered Parking Addition, Wall = 1

PERMIT SET- For Building Dept. Approval

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BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

COVERING ELEVATION AT A

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

Butler Manufacturing
VPC VERSION: 24.1.1

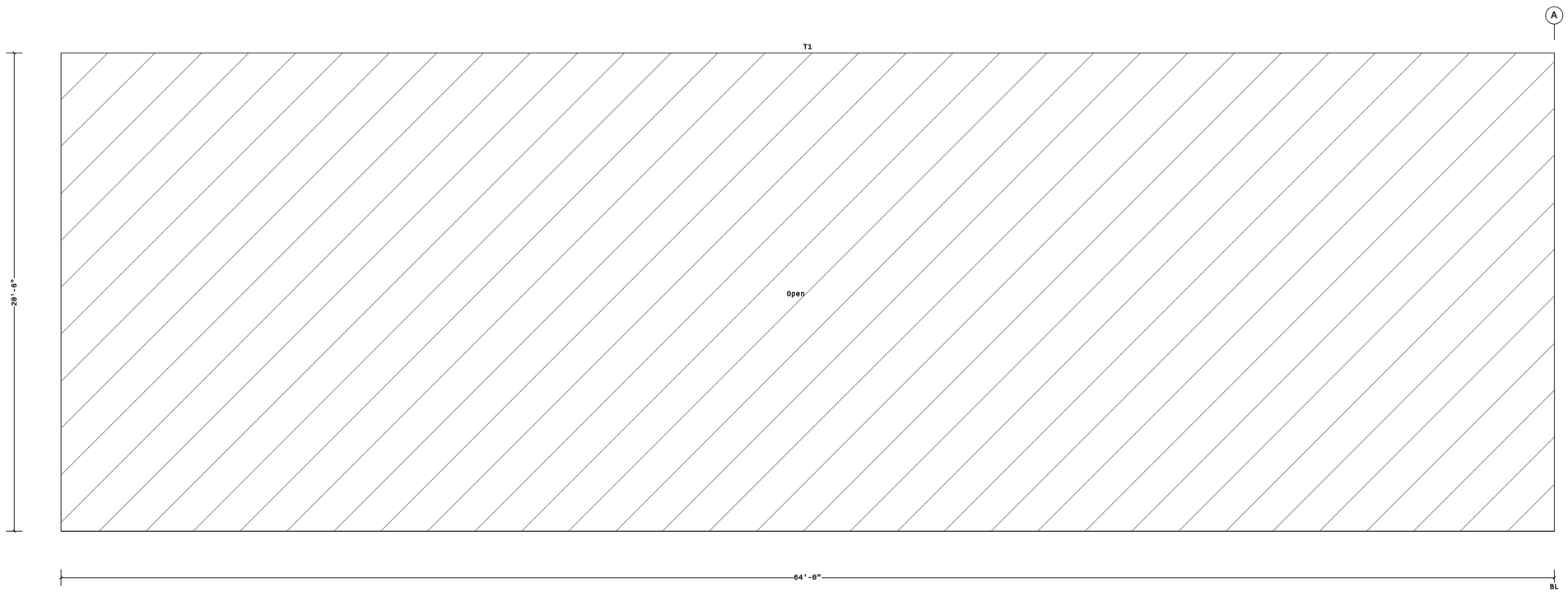
JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
PAGE: 21

VPC FILENAME: 24-007756-02

5/9/2024 13:48:31

Trim Schedule

Id	Parts	Color	Details
T1	(5.1)0630273,(6.4)ST10D,(2)0630393	Special Color 3	ENB004,NV667,RCB269



COVERING ELEVATION AT 1

Planograph Schedule

Id	Details
T1	P-080575,P-080789,P-080949,P-081239

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER

05/09/2024

Shape Name = Covered Parking Addition, Wall = 2

PERMIT SET- For Building Dept. Approval

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BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

COVERING ELEVATION AT 1

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

BUTLER®
Butler Manufacturing
VPC VERSION: 24.1.1

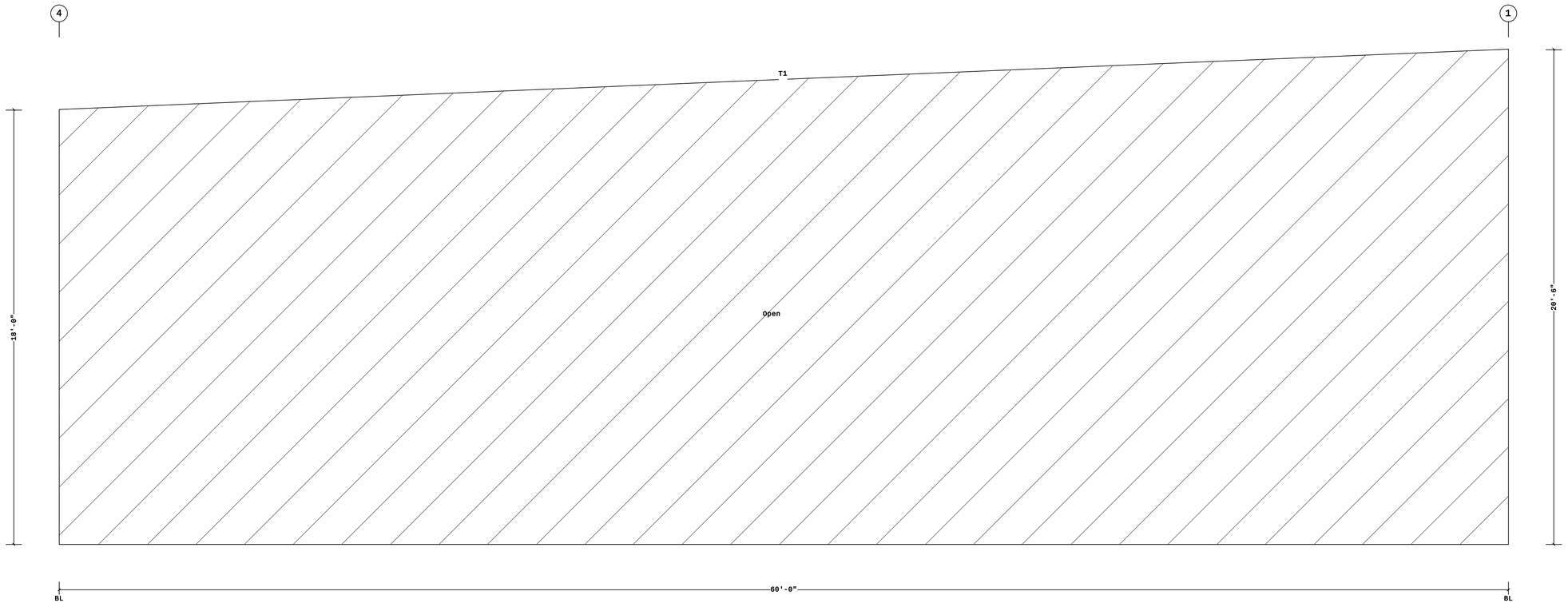
JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
PAGE: 22

VPC FILENAME: 24-007756-02

5/9/2024 13:48:32

Trim Schedule

Id	Parts	Color	Details
T1	(6)ST10C,(3)MRGTL20L,(6)WA10B	Special Color 3	RCB198



COVERING ELEVATION AT WALL 3

Planograph Schedule

Id	Details
T1	P-081167,P-104544,P-107511,P-GAI

ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
STATE OF MISSOURI
PROFESSIONAL ENGINEER

05/09/2024

Shape Name = Covered Parking Addition, Wall = 3

PERMIT SET- For Building Dept. Approval

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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

COVERING ELEVATION AT WALL 3

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
DATE: 1/19/2024
DRAWN/CHECK: ETH / AMJ
PAGE: 23

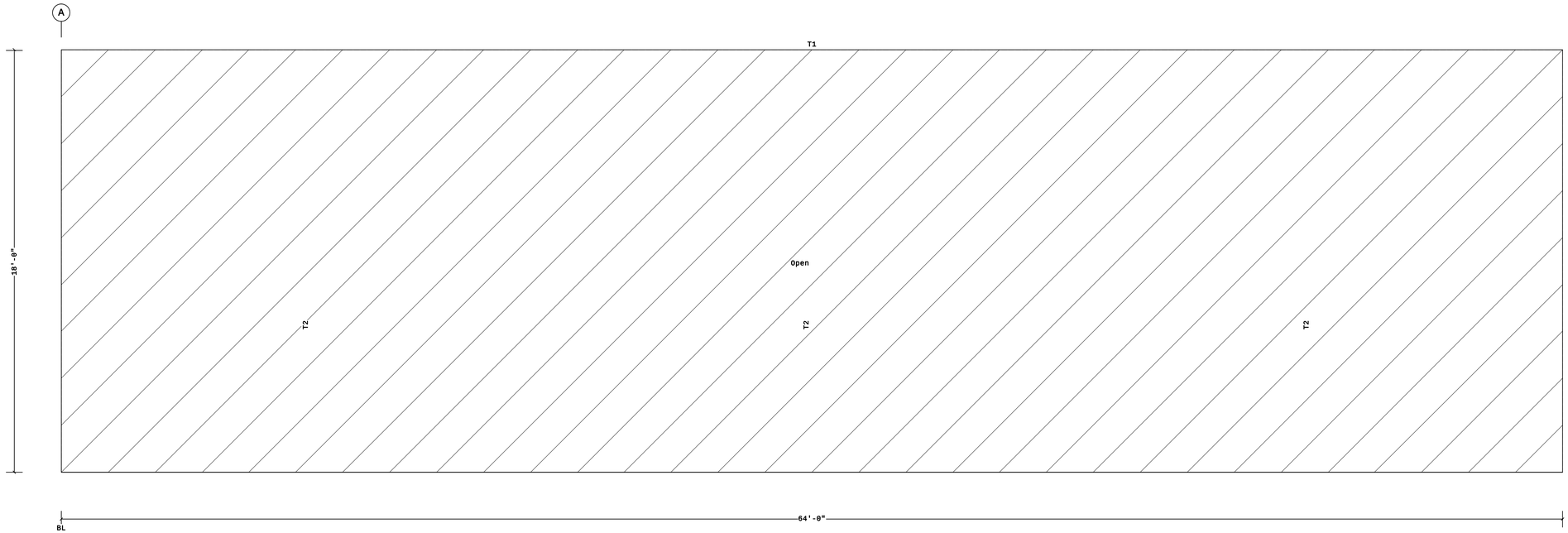
VPC FILENAME: 24-007756-02

5/9/2024 13:48:33

Trim Schedule

Id	Parts
T1	(3)GTR25
T2	0008738,(2)4CE45,4CE75,(2)CP410

Color	Details
Special Color 3	EN60B1,EN60C1,EN60D1,RCB050
Special Color 3	RCB987



COVERING ELEVATION AT 4

Planograph Schedule

Id	Details
T1	P-103223,P-103315,P-104714
T2	P-105224,P-105225,P-105228

ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
STATE OF MISSOURI
PROFESSIONAL ENGINEER

05/09/2024

PERMIT SET- For Building Dept. Approval

Shape Name = Covered Parking Addition, Wall = 4

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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

COVERING ELEVATION AT 4

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

Butler Manufacturing
VPC VERSION: 24.1.1

JOB #: 24-007756-02
DATE: 1/19/2024
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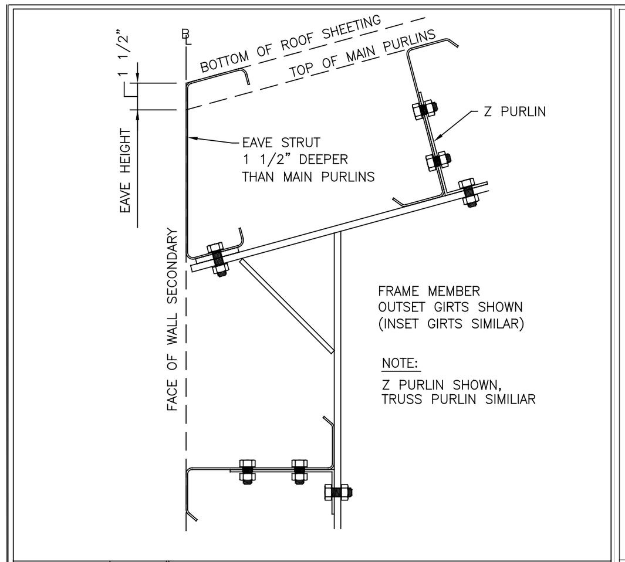
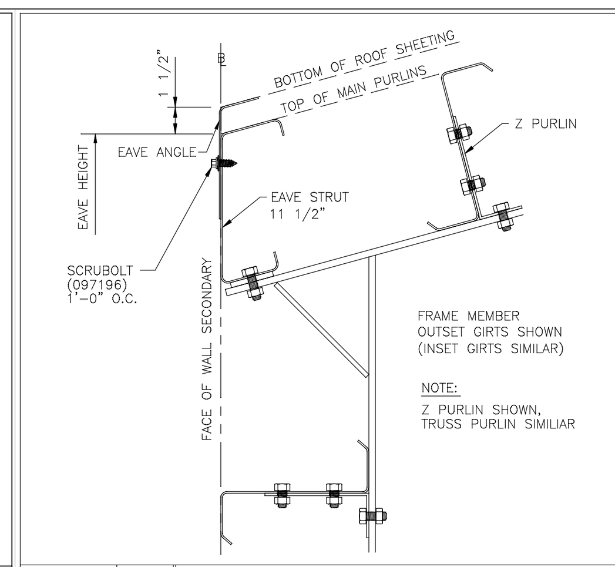
PAGE: 24

VPC FILENAME: 24-007756-02

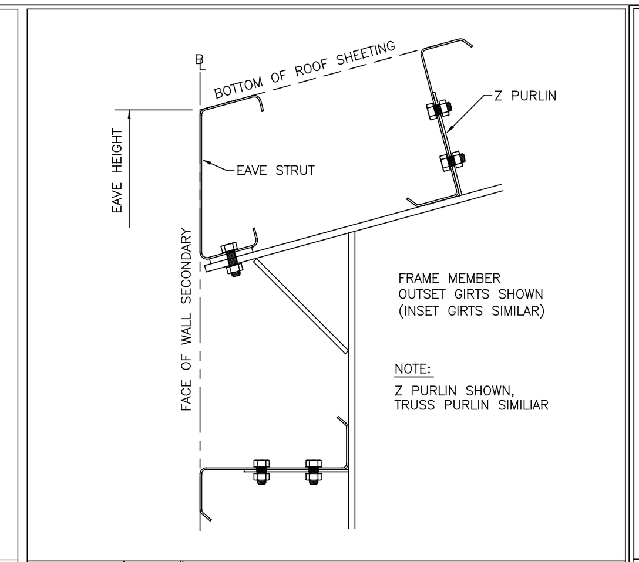
5/9/2024 13:48:34



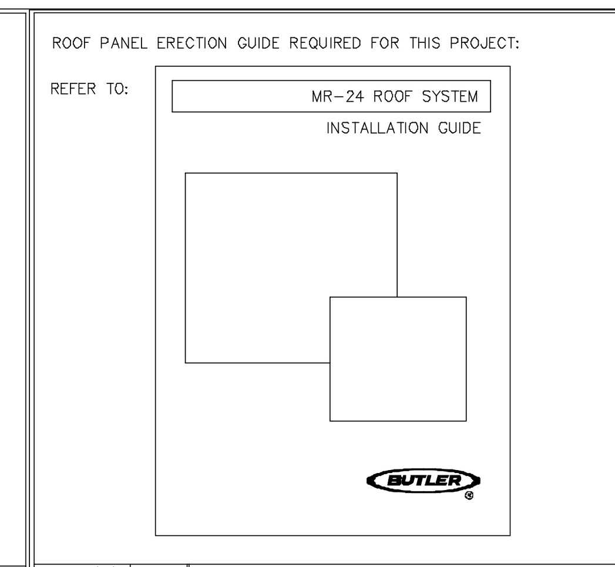
EN60B1 — EAVE HT. WITH MR-24 WITH THERMAL BLOCK, 8 1/2 AND 10 INCH PURLINS



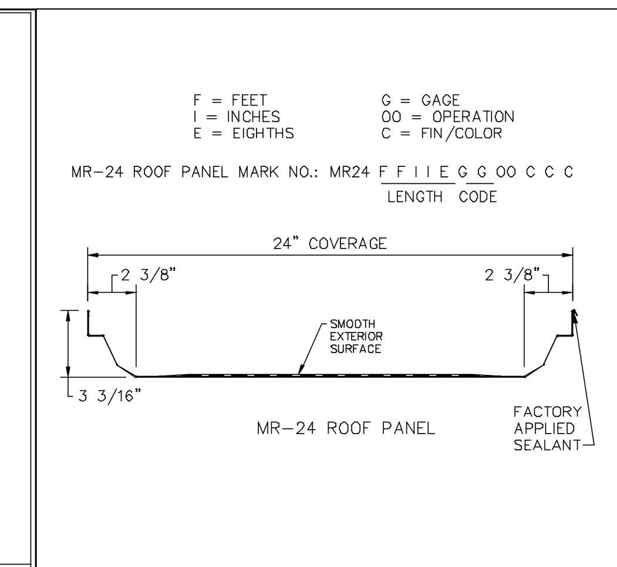
EN60C1 — EAVE HEIGHT MR-24 WITH THERMALL BLOCKS, 11 1/2 INCH PURLINS



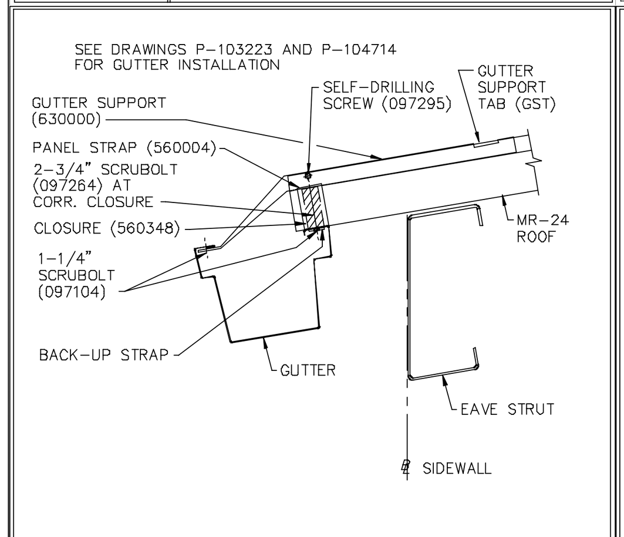
EN60D1 — EAVE HEIGHT, BRII OR MR-24 W/O THERMAL BLOCKS



EN8004 — MR-24 ROOF SYSTEM

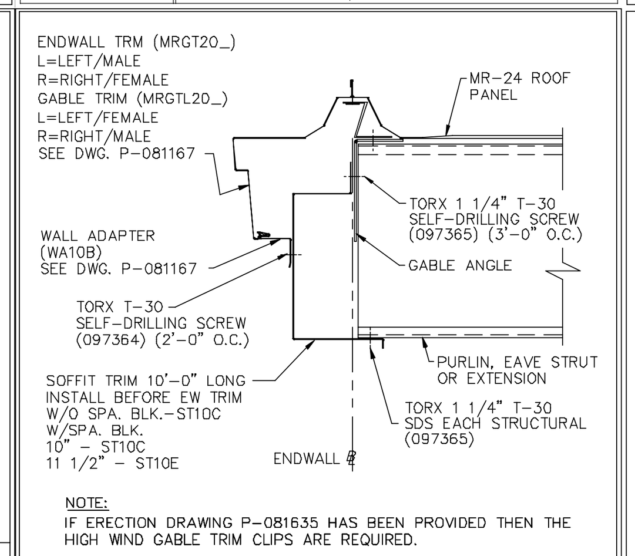


NV667 — MR-24 STANDING SEAM ROOF PANEL

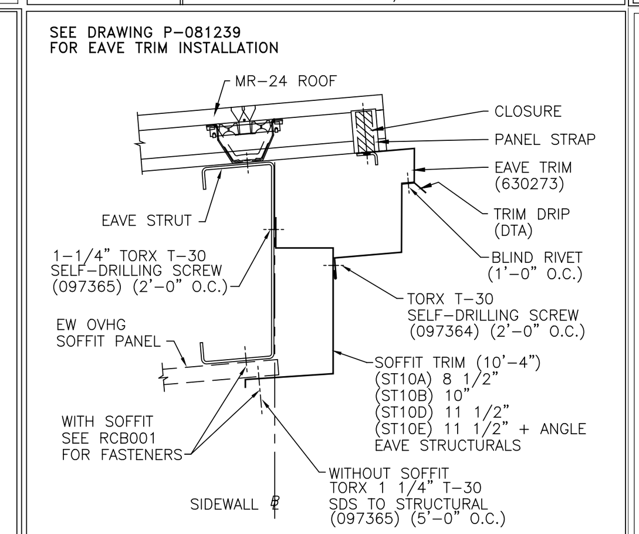


SLOPE RANGE 1/4:12 THRU 4:12

RCB050 — GUTTER W/WTHR. SEAL W/MR-24 ROOF, OPEN WALL AND EW OVHG AT OPEN WALL

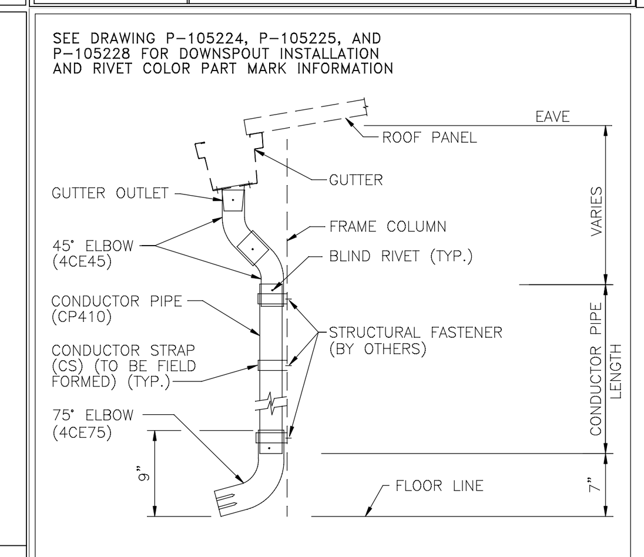


RCB198 — GABLE TRIM WITH MR-24 ROOF, OPEN EW W/10" OR 11 1/2" PUR.



SLOPE RANGE 1/4:12 TO <1 1/2:12

RCB269 — H.S. EAVE TRIM W/MR-24 ROOF, OPEN WALL OR EW OVHG AT OPEN WALL



RCB987 — 4 INCH DOWNSPOUT AT OPEN WALL

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER
05/09/2024

PERMIT SET- For Building Dept. Approval

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

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

COVERING & TRIM SED'S

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

BUILDER:	MAR Building Solutions
CUSTOMER:	
LOCATION:	Lees Summit, Missouri
PROJECT:	LSMO Water Utilites
BUILDER'S PO#:	

BUTLER
Butler Manufacturing
VPC VERSION: 24.1.1

JOB #:	24-007756-02
DATE:	1/19/2024
DRAWN/CHECK:	ETH / AMJ
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