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

DRAWING INDEX

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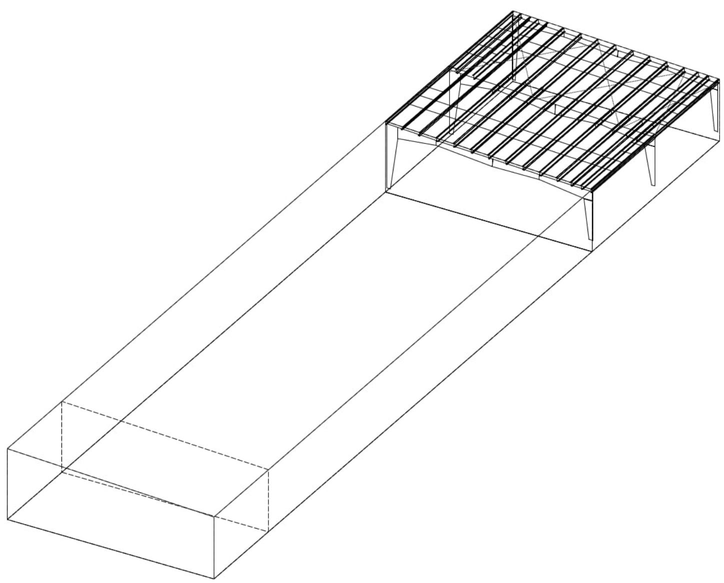
DRAWING RELEASE HISTORY

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

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

Joe Frogge
Digitally signed by Joe Frogge
Date: 2024.08.07 08:23:41 -05'00'

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/07/2024

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

COVER SHEET

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

JOB #: 24-007756-02
DATE: 5/19/2024
DRAWN/CHECKED: ETH AM
PAGE: 1
VPC VERSION: 2021

Butler Manufacturing
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VPC FILENAME: 24-007756-02 5/9/2024 13:48:15

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
Cold Form: 16AISI - ASD
Rainfall: I: 7.00 inches per hour
f'c: 3000.00 psi Concrete

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

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

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

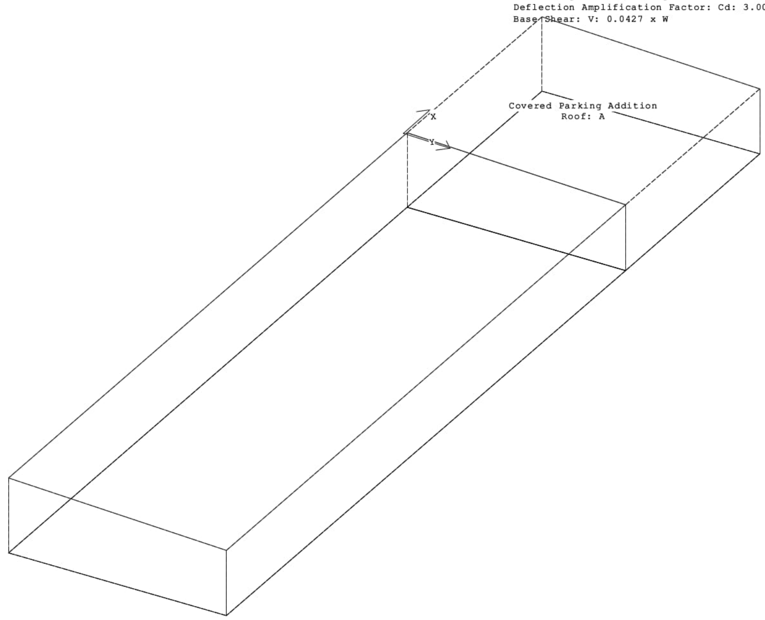
Snow Load
Ground Snow Load: pg: 20.00 psf
Flat Roof Snow: pf: 16.80 psf
Design Snow (Sloped): ps: 16.80 psf
Rain Surcharge: 0.00 psf
Specified Minimum Roof Snow: 20.00 psf (Code)
Exposure Factor: 2 Partially Exposed - Ce: 1.00
Snow Importance: Is: 1.000
Thermal Factor: Unheated - Ct: 1.20
Ground / Roof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

Roof Live Load
Roof Live Load: 20.00 psf Not Reducible

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



PERMIT SET- For Building Dept. Approval

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

CODES AND LOADS

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
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BUTLER
Butler Manufacturing
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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 — 08/09/2024

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/07/2024

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D — BUTLER MANUFACTURING, 1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

ERECTION NOTES

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

JOB #: 24-007756-02
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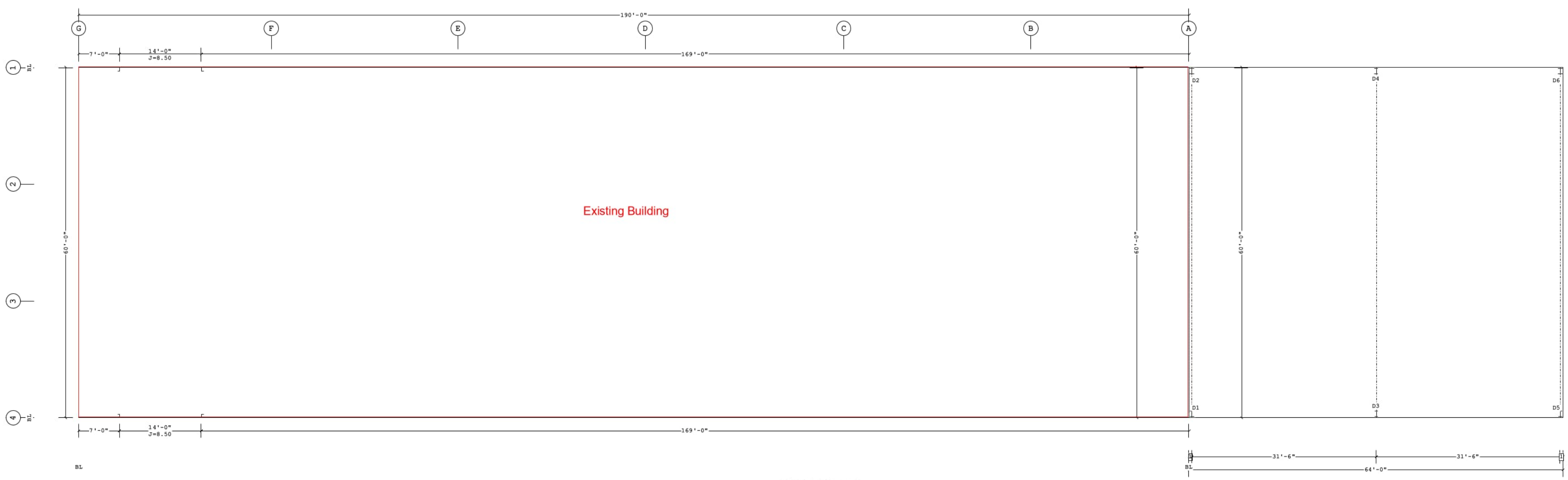
BUTLER — Butler Manufacturing — a division of BlueScope Buildings North America, Inc.

VPC FILENAME: 24-007756-02 — 5/9/2024 — 13:48:18



ANCHOR ROD PLAN

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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BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

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DRAWING SCALE: NTS

5/9/2024 13:48:19

ANCHOR ROD PLAN

BUILDER: MAR Building Solutions
CUSTOMER:
LOCATION: Lees Summit, Missouri
PROJECT: LSMO Water Utilites
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STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER
09/09/2024

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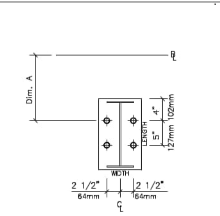
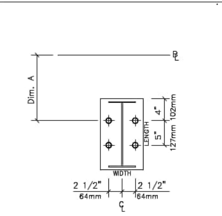
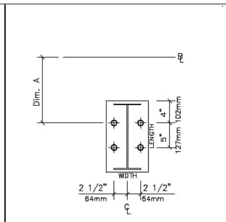


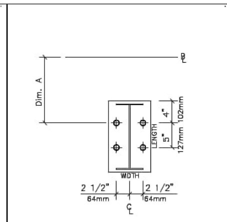
D1 (4)1" Dia.
Plate W=9", L=1'-1"
Dim: A=5 1/8"
Elev.=103'-0"



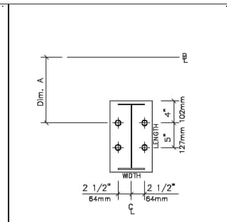
D2 (4)1" Dia.
Plate W=10", L=1'-1"
Dim: A=5 1/8"
Elev.=101'-0"



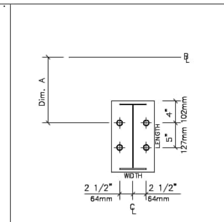
D3 (4)1" Dia.
Plate W=8", L=1'-1"
Dim: A=5 1/8"
Elev.=103'-0"



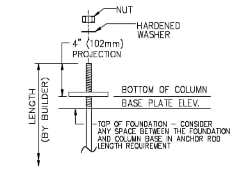
D4 (4)1" Dia.
Plate W=9", L=1'-1"
Dim: A=5 1/8"
Elev.=101'-0"



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

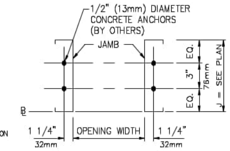


D6 (4)3/4" Dia.
Plate W=9", L=1'-1"
Dim: A=5 1/8"
Elev.=101'-0"



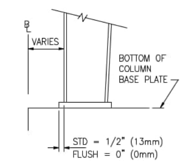
THE 4" PROJECTION ABOVE THE BOTTOM OF THE BASE PLATE IS A SUGGESTED MINIMUM TO ENSURE ADEQUATE ANCHOR ROD LENGTH. A DIFFERENT PROJECTION MAY BE REQUIRED BY THE FOUNDATION DESIGNER.
THE ANCHOR ROD PROJECTION MAY NEED TO BE CUT OFF IF THERE IS INTERFERENCE WITH OTHER PARTS.

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

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.

PERMIT SET- For Building Dept. Approval

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

ANCHOR ROD PLAN - DETAILS

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

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

JOB #: 24-007756-02
DATE: 4/19/2024
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PAGE: 5
VPC VERSION: 2021

VPC FILENAME: 24-007756-02
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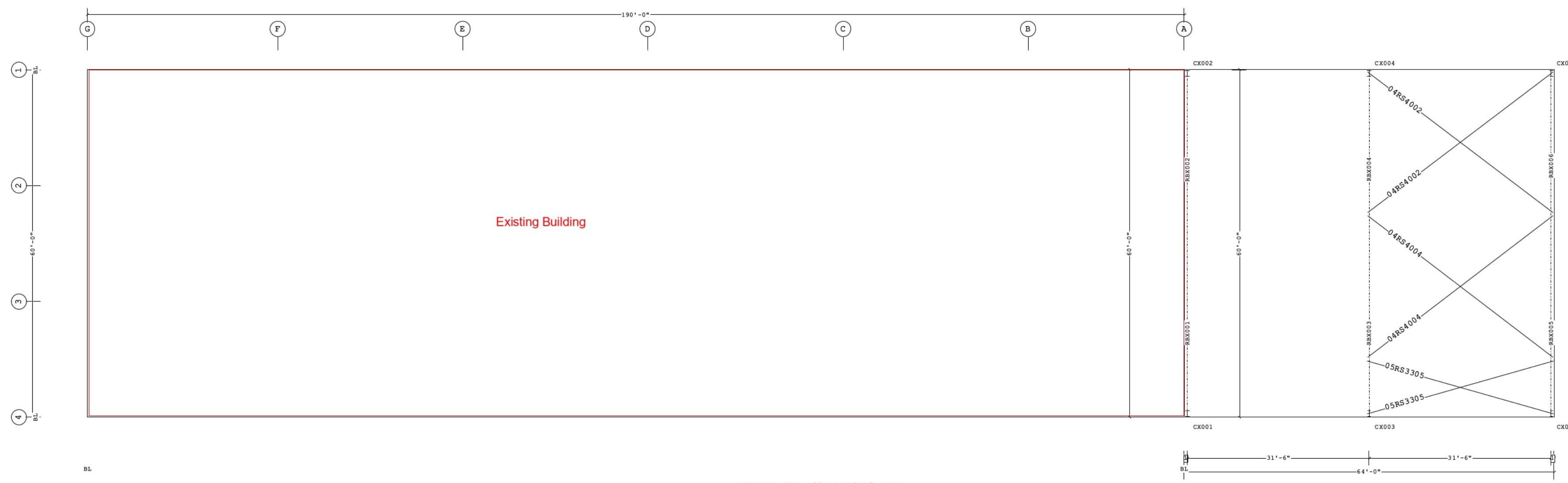

PRIMARY AND ROOF BRACING PLAN

Bracing Part Schedule

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

1 6"
Dimension Key

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.

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Shape Name = Covered Parking Addition, Shape = Covered Parking

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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

PERMIT SET- For Building Dept. Approval

PRIMARY AND ROOF BRACING PLAN

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

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a division of BlueScope Buildings North America, Inc.

JOB #: 24-007756-02
DATE: 7/19/2024
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PAGE: 6
VPC VERSION: 24.1

VPC FILENAME: 24-007756-02
5/9/2024 13:48:21

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER
07/19/2024

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/07/2024

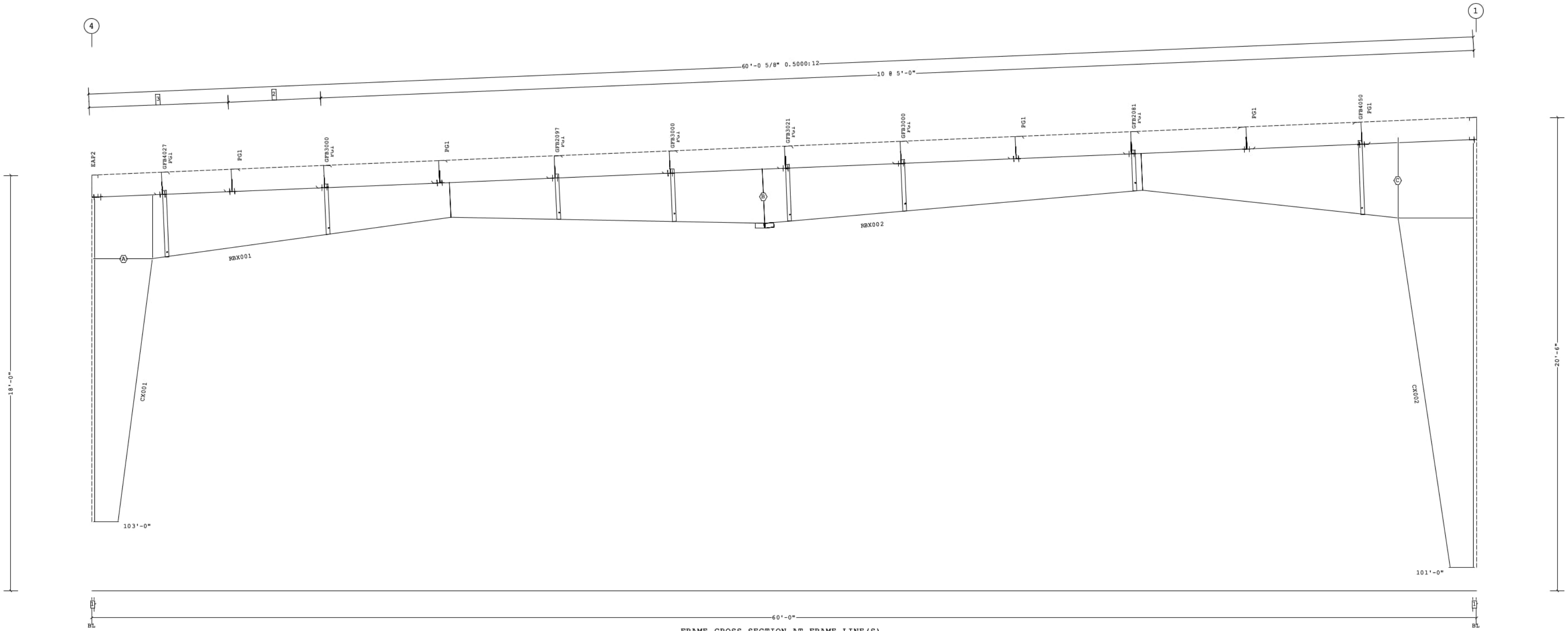
Frame Member Schedule

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

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.

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

JOB #: 24-007756-02
DATE: 4/19/2024
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VPC VERSION: 2021

VPC FILENAME: 24-007756-02
5/9/2024
13:48:22

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER
08/09/2024

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/07/2024

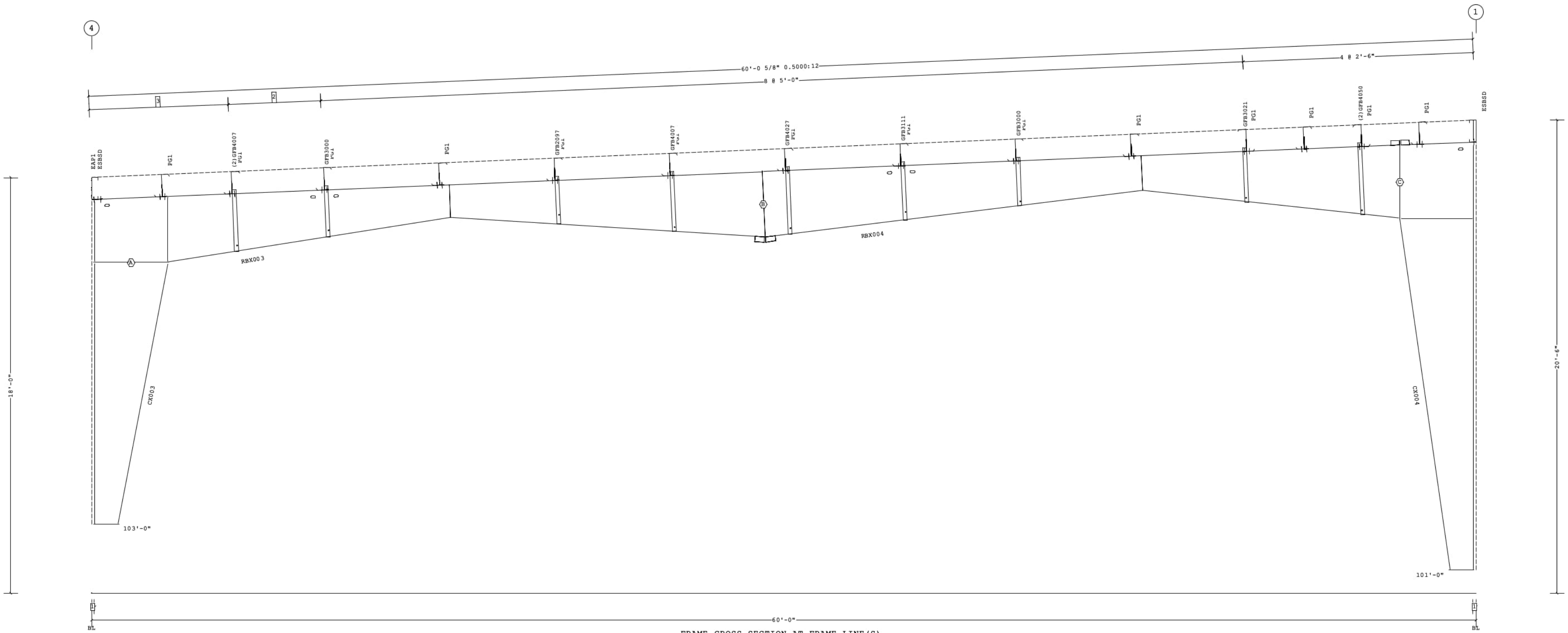
Frame Member Schedule

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

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
Butler Manufacturing
a division of BlueScope Buildings North America, Inc.
JOB #: 24-007756-02
DATE: 4/19/2024
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PAGE: 8
VPC VERSION: 2021

VPC FILENAME: 24-007756-02 5/9/2024 13:48:23

STATE OF MISSOURI ALAN MICHAEL JUNGNITSCH NUMBER PE-2018029666 PROFESSIONAL ENGINEER
08/05/2024

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/07/2024

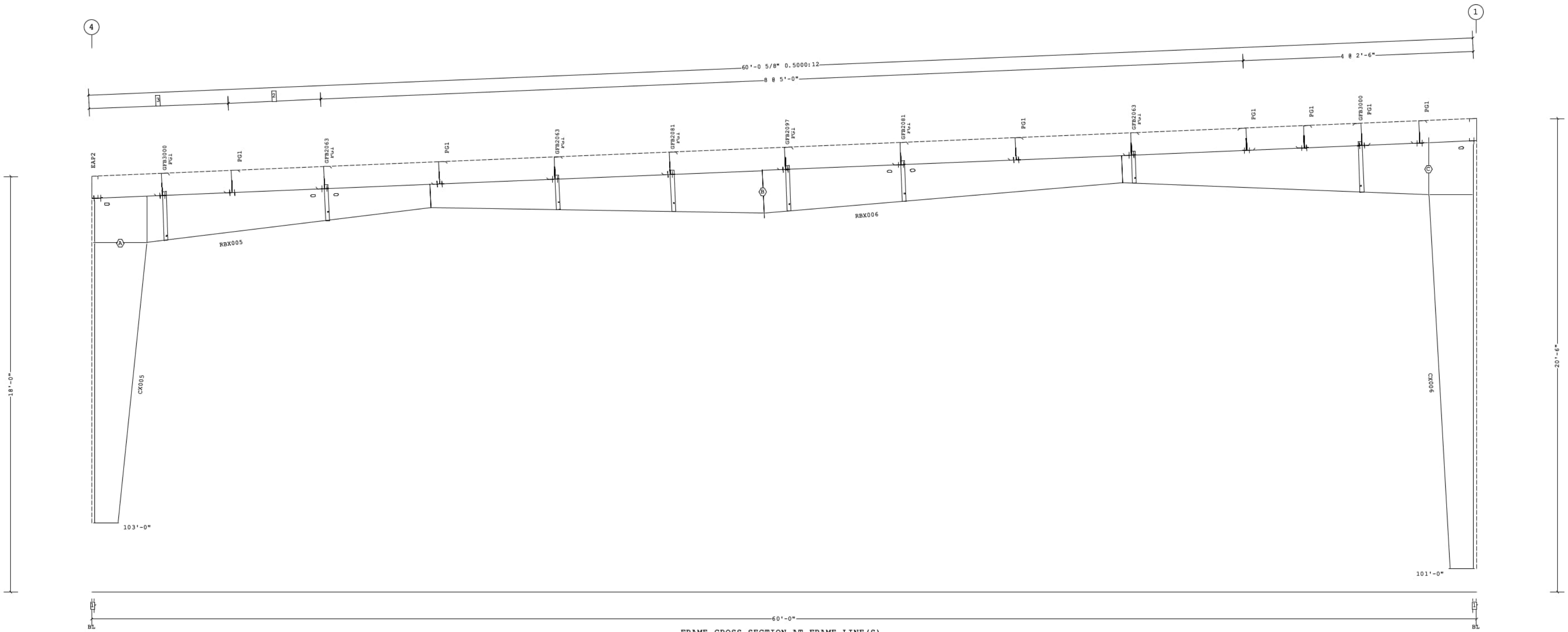
Frame Member Schedule

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

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#:

JOB #: 24-007756-02
DATE: 4/19/2024
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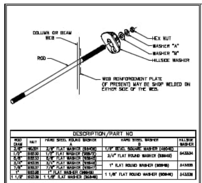
PAGE: 9
VPC VERSION: 2021

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

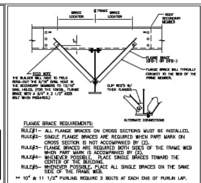
VPC FILENAME: 24-007756-02
5/9/2024 13:48:24

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

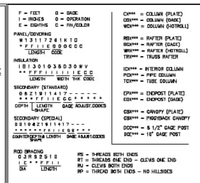
RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/07/2024



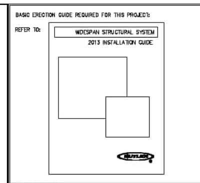
BR0102 ROD BRACE WEB SLOT ASSEMBLY



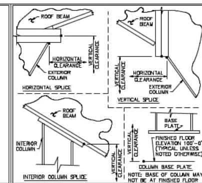
BR05AE TYPICAL FLANGE BRACE CONNECTIONS CONT. PURLIN LAP SHOWN, CONT. GIRT & SIMPLE PURLIN



EN5081 MARK NUMBER KEY COMMON GENERATED MARK NUMBERS



EN8002 BASIC ERECTION GUIDE – STRUCTURAL



PFR007 CLEAR HEIGHT DIMENSION WORK POINTS AS SHOWN ON FRAME CROSS SECTION DRAWINGS

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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PERMIT SET- For Building Dept. Approval

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

PRIMARY BRACING SED'S

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

JOB #: 24-007756-02
DATE: 4/19/2024
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PAGE: 10

Butler Manufacturing
VPC VERSION: 23.1
a division of BlueScope Buildings North America, Inc.

VPC FILENAME: 24-007756-02
5/3/2024 SEDSheet 12:52:14

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

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/07/2024

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

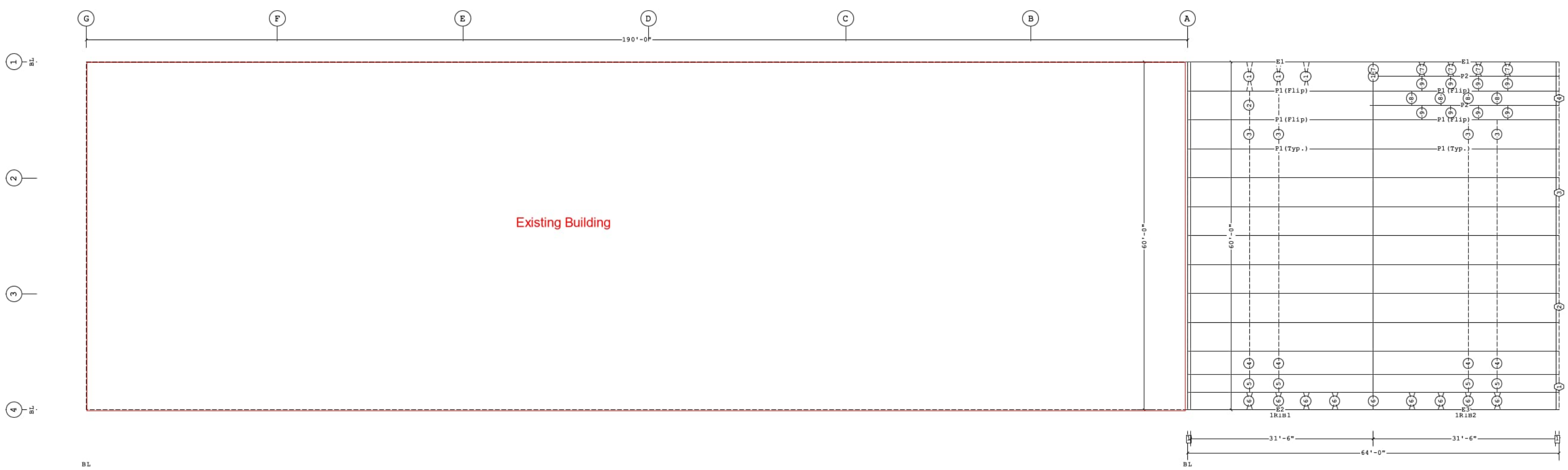
◯ Secondary Bracing Schedule

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

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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#:

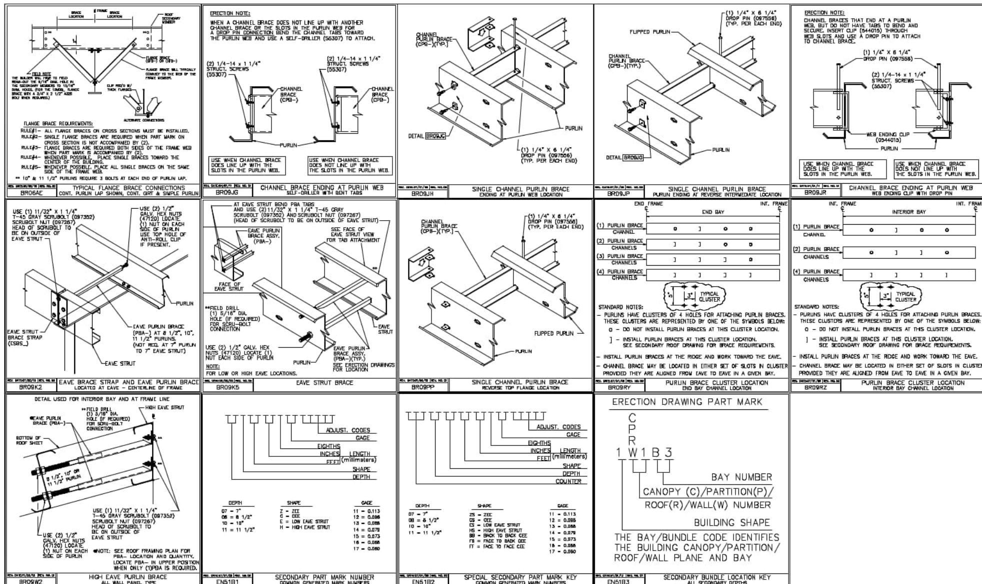
JOB #: 24-007756-02
DATE: 7/19/2024
DRAWN/CHECKED: ETH AM
PAGE: 11
VPC VERSION: 2021

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

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER
08/09/2024

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/07/2024

VPC FILENAME: 24-007756-02
5/9/2024
13:48:25



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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 (a)

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

JOB #: 24-007756-02
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PAGE: 12
VPC VERSION: 2021

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

STATE OF MISSOURI — ALAN MICHAEL JUNGNITSCH — NUMBER PE-2018029666 — PROFESSIONAL ENGINEER
08/09/2024

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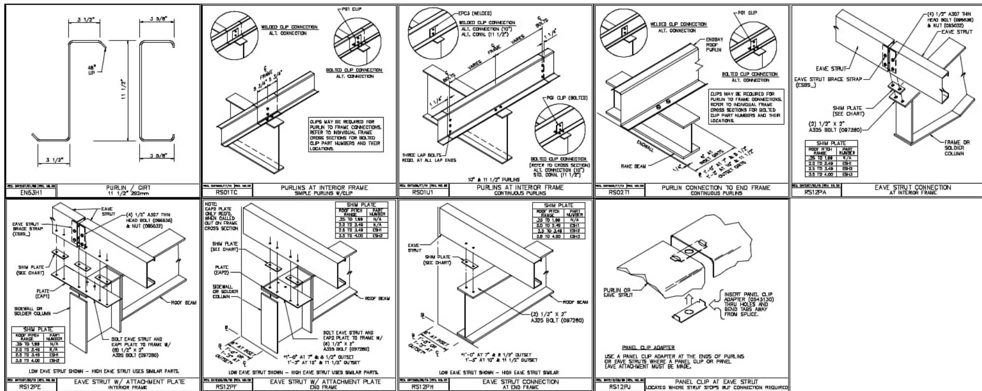
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/07/2024

VPC FILENAME: 24-007756-02 5/3/2024 SEDSheet 12:52:16



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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#:

JOB #: 24-007756-02
DATE: 4/19/2024
DRAWN/CHECKED: ETH AMJ
PAGE: 13
VPC VERSION: 24.1

BUTLER
Butler Manufacturing
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STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER
08/09/2024

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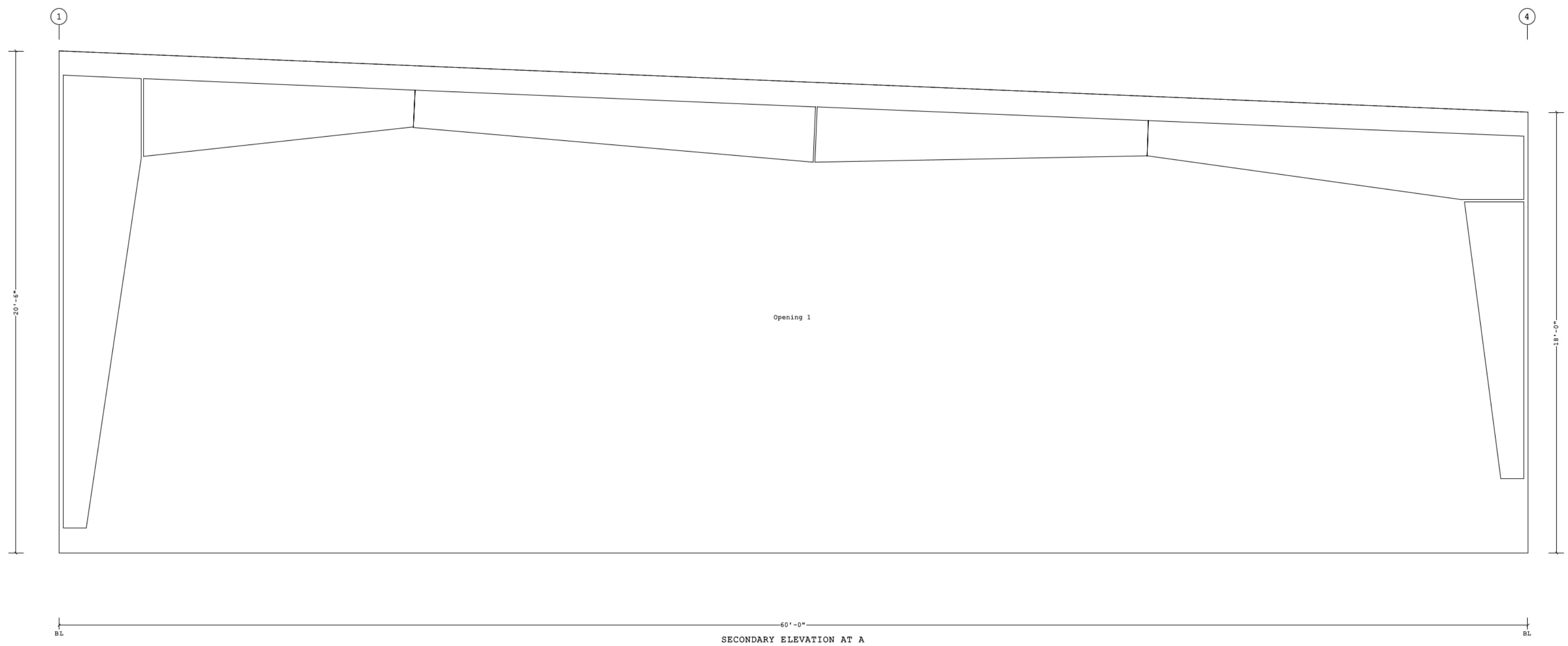
Lee's Summit, Missouri
08/07/2024

VPC FILENAME: 24-007756-02
5/3/2024 SEDSheet 12:52:18



SECONDARY ELEVATION AT A

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:

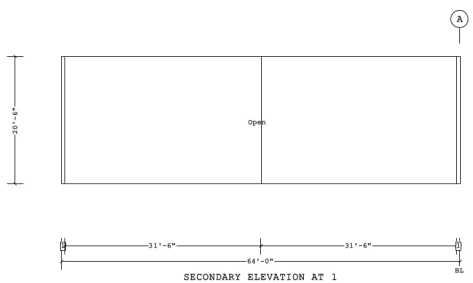
DRAWING SCALE: NTS

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: 2021

JOB #: 24-007756-02
DATE: 7/19/2024
DRAWN/CHECK: ETH AMJ
PAGE: 14



SECONDARY ELEVATION AT 1

1 6"
Dimension Key

Shape Name = Covered Parking Addition, Wall = 2

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#:

JOB #: 24-007756-02
DATE: 7/19/2024
DRAWN/CHECKED: ETH / ANS
PAGE: 19

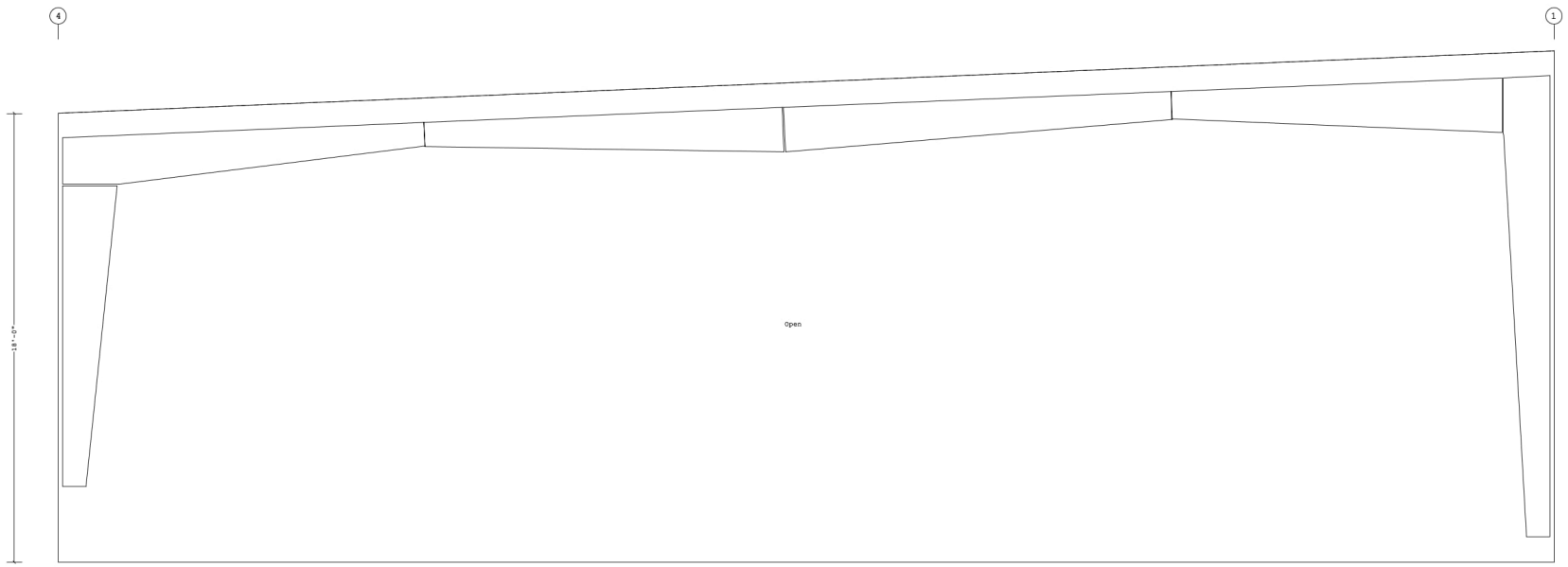
Butler Manufacturing
VPC VERSION: 4.11
a division of BlueScope Buildings North America, Inc.

VPC FILENAME: 24-007756-02

5/9/2024 13:48:27

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
PROFESSIONAL ENGINEER
08/19/2024

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/20/2024



WALL SECONDARY ELEVATION WALL 3

Shape Name = Covered Parking Addition, Wall = 3

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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#:

JOB #: 24-007756-02
DATE: 5/19/2024
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PAGE: 19

Butler Manufacturing
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Lee's Summit, Missouri
08/20/2024

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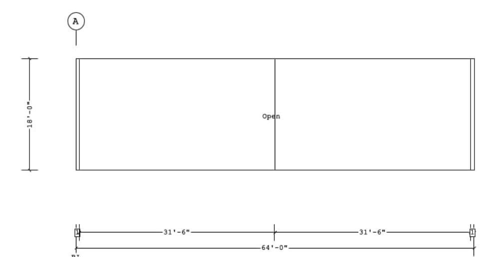

SECONDARY ELEVATION AT 4

1 6"
Dimension Key

Shape Name = Covered Parking Addition, Wall = 4

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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#:

JOB #: 24-007756-02
DATE: 7/19/2024
DRAWN/CHECK: ETH AMJ
PAGE: 17
VPC VERSION: 2021

Butler Manufacturing
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STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
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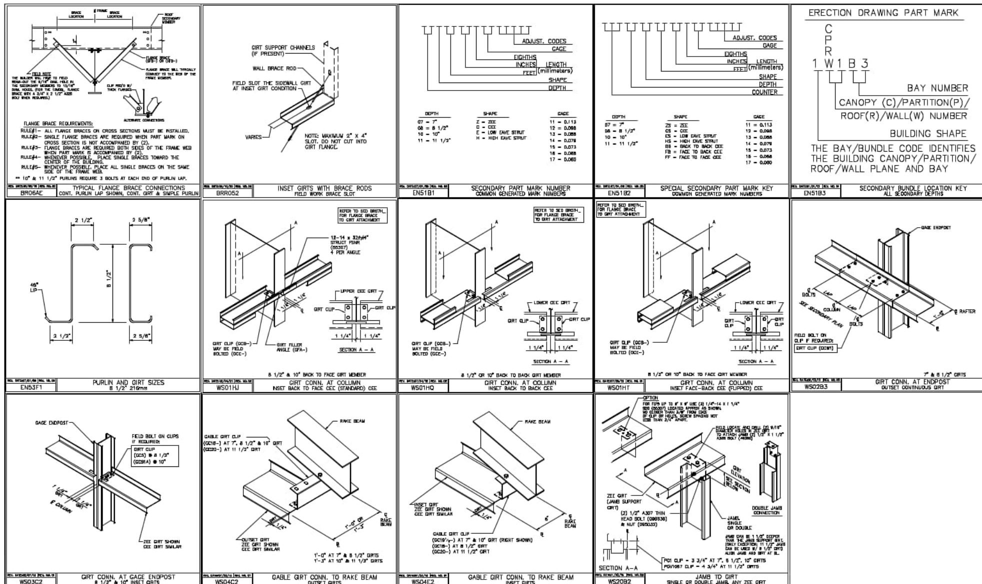

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THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF BUTLER MFG. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND MAY BE REPRODUCED ONLY FOR THAT PURPOSE. IT SHALL NOT BE MODIFIED, REPRODUCED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

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BUTLER MANUFACTURING
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REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

WALL SECONDARY SED'S (a)

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

JOB #: 24-007756-02
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Butler Manufacturing
VPC VERSION: 2021
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STATE OF MISSOURI
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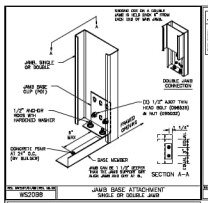
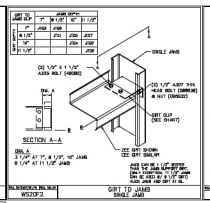
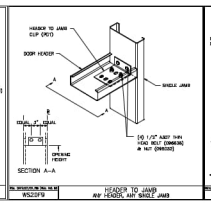


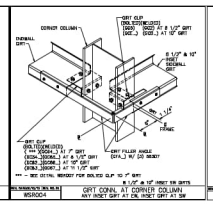
JAMB BASE ATTACHMENT
WS2D98 — SINGLE OR DOUBLE JAMB



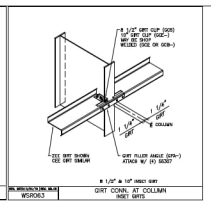
GIRT TO JAMB
WS2DF2 — SINGLE JAMB



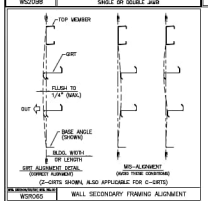
HEADER TO JAMB
WS2DF9 — ANY HEADER, ANY SINGLE JAMB



GIRT CONN. AT CORNER COLUMN
WSROD4 — ANY INSET GIRT AT ON INSET GIRT AT SW



GIRT CONN. AT COLUMN
WSRO63 — INSET GIRTS



WALL SECONDARY FRAMING ALIGNMENT
WSRO65

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

REV.	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

WALL SECONDARY SED'S (b)

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

JOB #: 24-007756-02
DATE: 7/19/2024
DRAWN/CHECKED: ETH
PAGE: 19

Butler Manufacturing
VPC VERSION: 5.11
a division of BlueScope Buildings North America, Inc.

PERMIT SET- For Building Dept. Approval

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
PROFESSIONAL ENGINEER
08/02/2024

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Lee's Summit, Missouri
08/02/2024

VPC FILENAME: 24-007756-02
5/3/2024 SEDSheet 12:52:25

Covering Schedule

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#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	Color	Details
T1	0630043	Match Wall Color	
T2	0630043	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-2010029666
PROFESSIONAL ENGINEER
08/19/2024

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.

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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REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

ROOF COVERING PLAN

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

JOB #: 24-007756-02
DATE: 8/19/2024
DRAWN/CHECKED: ETH / ANS
PAGE: 20

Butler Manufacturing
VPC VERSION: 2.11
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5/9/2024 13:48:30

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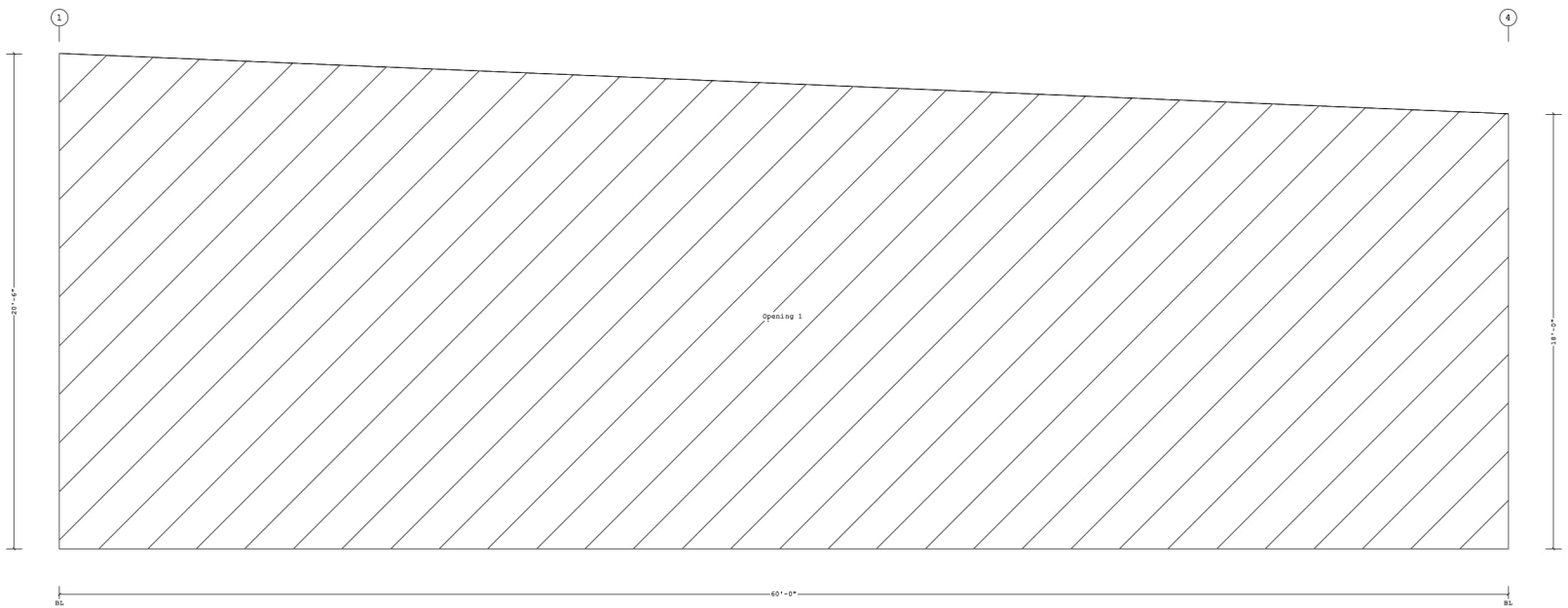
Lee's Summit, Missouri
08/20/2024



COVERING ELEVATION AT A

Shape Name = Covered Parking Addition, 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
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REV.	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

COVERING ELEVATION AT A

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

JOB #: 24-007756-02
DATE: 5/19/2024
DRAWN/CHECKED: ETH / AMS
PAGE: 21

Butler Manufacturing
VPC VERSION: 2021

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VPC FILENAME: 24-007756-02

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PERMIT SET- For Building Dept. Approval

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
PROFESSIONAL ENGINEER
08/19/2024

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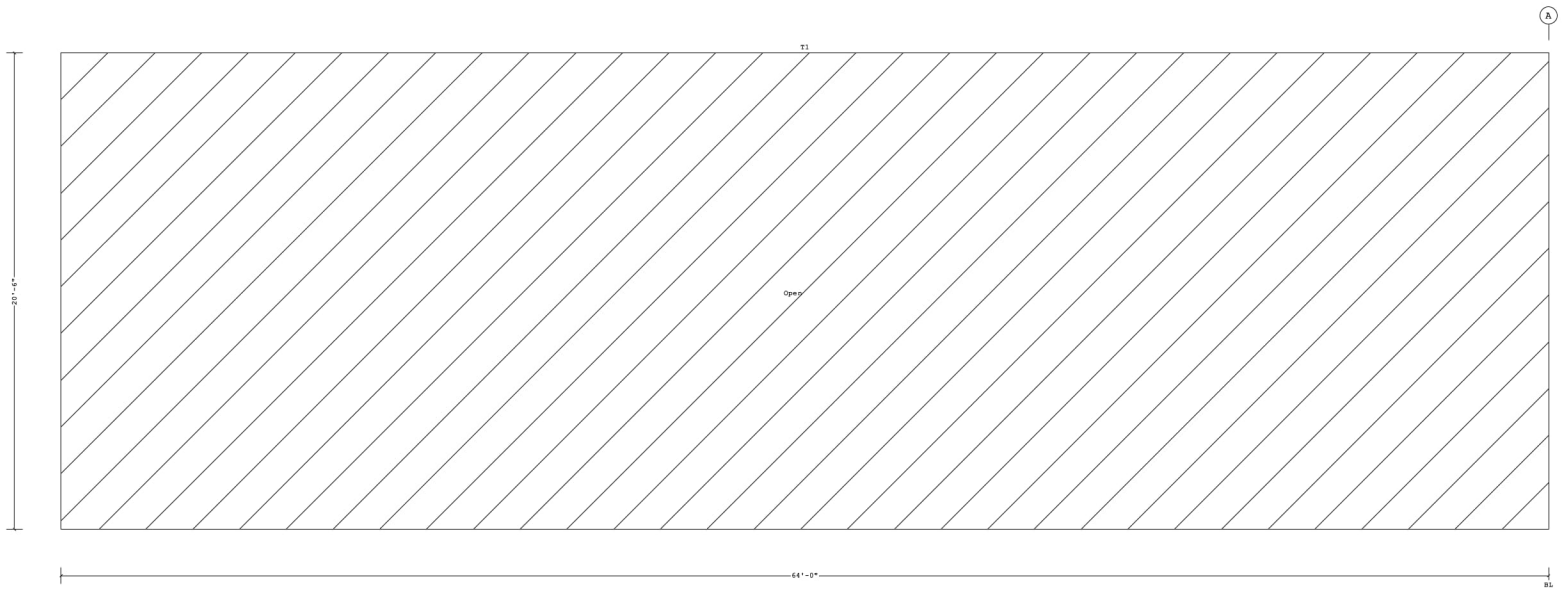
Development Services Department
Lee's Summit, Missouri
08/20/2024

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-2010029666
PROFESSIONAL ENGINEER
08/19/2024

PERMIT SET- For Building Dept. Approval

Shape Name = Covered Parking Addition, Wall = 2

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REV.	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

COVERING ELEVATION AT 1

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

JOB #: 24-007756-02
DATE: 8/19/2024
DRAWN/CHECKED: ETH / AMS
PAGE: 22

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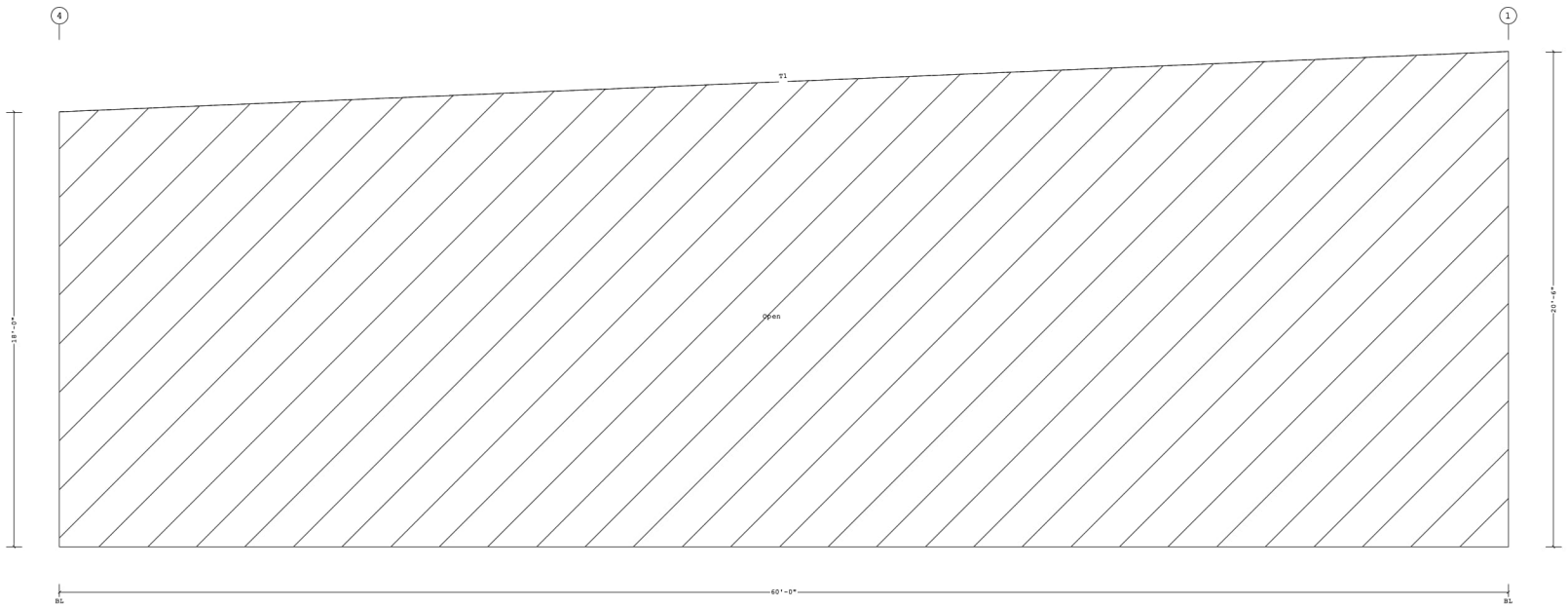
Lee's Summit, Missouri
08/20/2024

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

Shape Name = Covered Parking Addition, Wall = 3

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
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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV.	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

5/9/2024 13:48:33

COVERING ELEVATION AT WALL 3

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

JOB #: 24-007756-02
DATE: 5/9/2024
DRAWN/CHECKED: ETH / AMS
PAGE: 23

Butler Manufacturing
VPC VERSION: 2.11
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VPC FILENAME: 24-007756-02

PERMIT SET- For Building Dept. Approval

ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
PROFESSIONAL ENGINEER
STATE OF MISSOURI
08/19/2024

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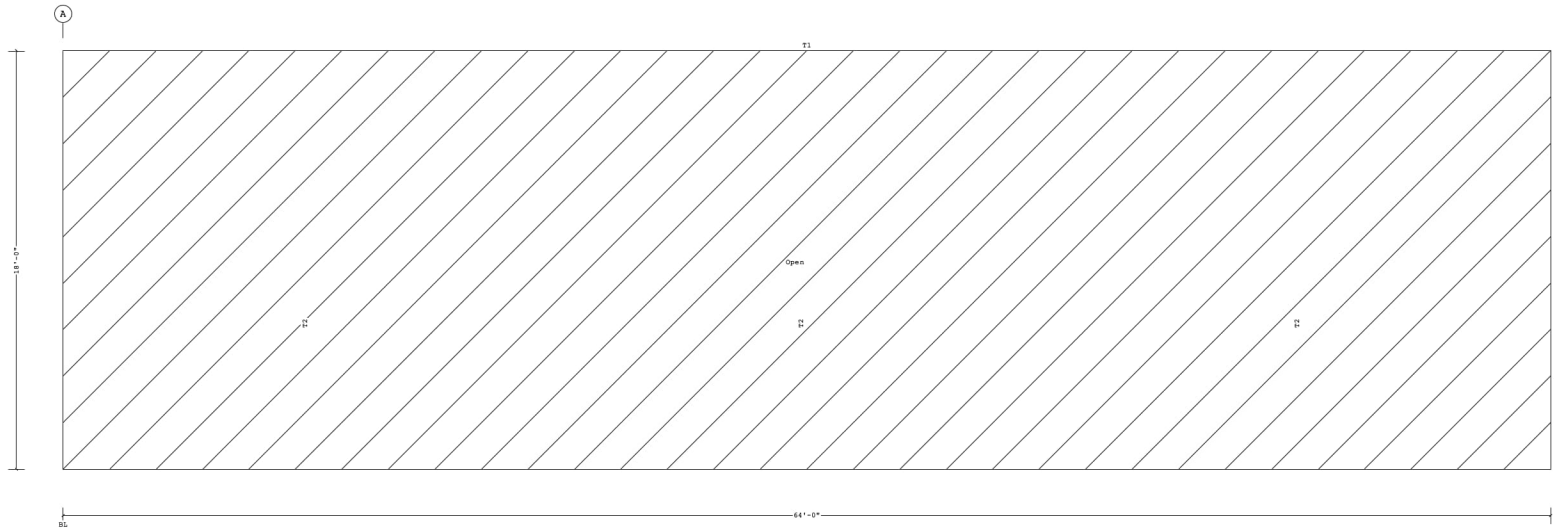
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/20/2024

Trim Schedule

Id	Parts	Color	Details
T1	(3)GTR25	Special Color 3	EN60B1,EN60C1,EN60D1,RCB050
T2	0008738,(2)4CE45,4CE75,(2)CP410	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

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
PROFESSIONAL ENGINEER
08/19/2024

Shape Name = Covered Parking Addition, Wall = 4

PERMIT SET- For Building Dept. Approval

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REV.	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

COVERING ELEVATION AT 4

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

JOB #: 24-007756-02
DATE: 8/19/2024
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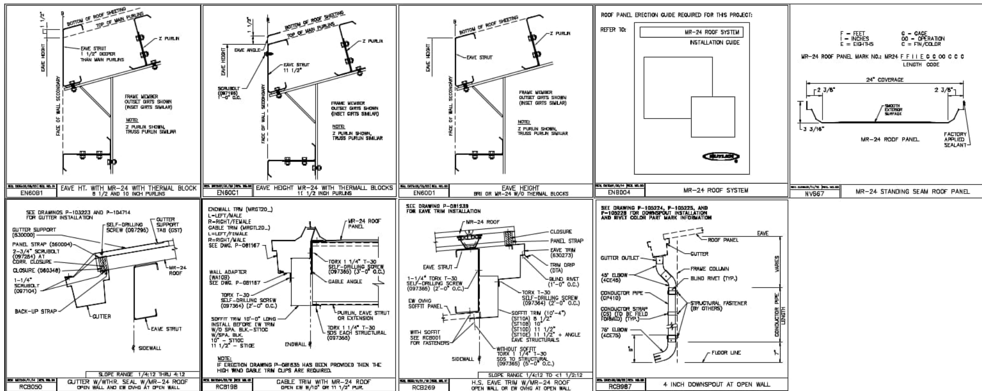

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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

COVERING & TRIM SED'S

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

JOB #: 24-007756-02
DATE: 4/19/2024
DRAWN/CHECK: ETH AM
PAGE: 25

Butler Manufacturing
VPC VERSION: 2021.1
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STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER
05/09/2024

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Lee's Summit, Missouri
08/07/2024

VPC FILENAME: 24-007756-02 5/3/2024 SEDSheet 12:52:37

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DRAWING INDEX

DRAWING TITLE	PAGES
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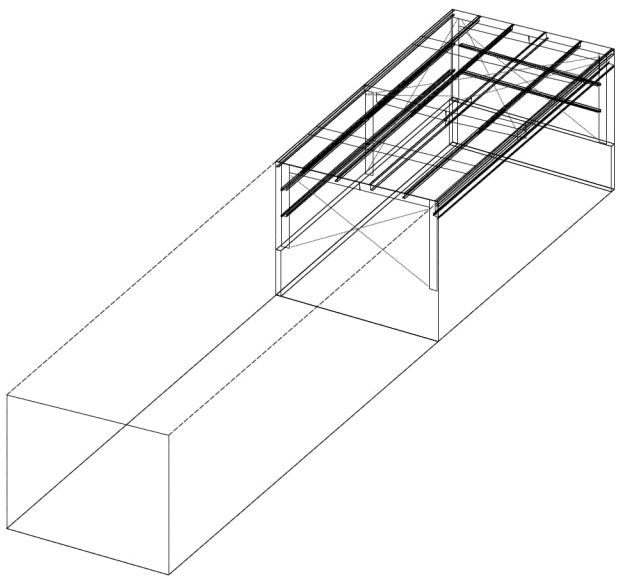
CODES AND LOADS	2
NOTES	3
ANCHOR ROD PLAN	4
PRIMARY STRUCTURAL	5-10
SECONDARY STRUCTURAL	11-18
COVERING	19-26
SPECIAL DRAWINGS	
STANDARD ERECTION DETAILS	
PLANOGRAPH DETAILS	

DRAWING RELEASE HISTORY

TYPE	DATE	DESCRIPTION
Permit Set	5/1/24	PERMIT SET- For Building Dept. Approval



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
2024.05.01 16:09:47-05'00'

ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
STATE OF MISSOURI
PROFESSIONAL ENGINEER
05/01/2024

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
05/01/2024

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

COVER SHEET

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

JOB #: 24-007756-01
DATE: 5/19/2024
DRAWN/CHECKED: ETH JRM
PAGE:

Butler Manufacturing
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5/1/2024 13:12:10

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: 0.10 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: 2.46 psf
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: 0.879
Parts Wind Exposure Factor: 0.879
Wind Enclosure: Partially Enclosed
Solidity Ratio: 20.0%
Frame Width Factor: Kb: 1.5850
Shielding Factor: Ks: 0.7420
Topographic Factor: Kzt: 1.0000
Ground Elevation Factor: Ke: 1.0000

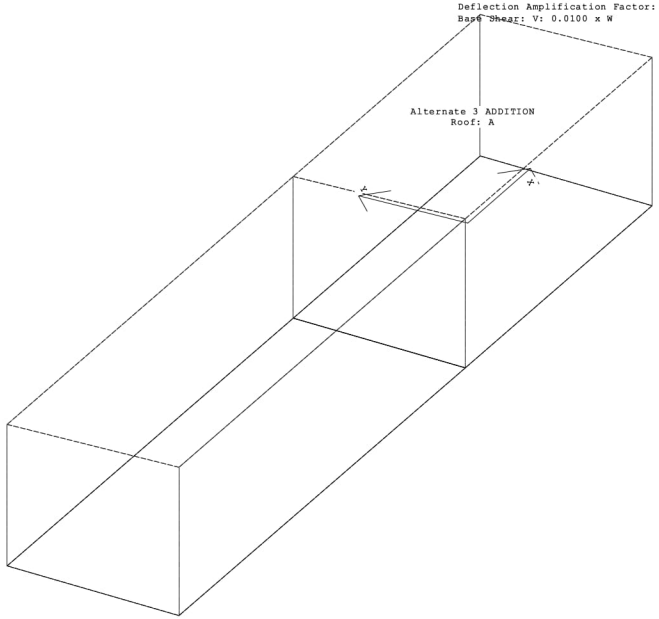
NOT Windborne Debris Region
Base Elevation: 0/0/0
Site Elevation: 0.0 ft
Primary Zone Strip Width: 2a: 6/0/0
Parts / Portions Zone Strip Width:
Walls, a: 3/0/0
Roof(s), 0.6h: 10/7/8
Velocity Pressure: qz: 25.30, (C&C) 25.30 psf

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:: A
Seismic Snow Load: 0.00 psf
% Snow Used in Seismic: 0.00
Diaphragm Condition: Flexible
Fundamental Period Height Used: 18/1/12

Transverse Direction Parameters
System NOT detailed for Seismic
Redundancy Factor: Rho: 1.00
Fundamental Period: Ta: 0.2846
R-Factor: 3.00
Overstrength Factor: Omega: 2.50
Deflection Amplification Factor: Cd: 3.00
Base Shear: V: 0.0100 x W

Longitudinal Direction Parameters
System NOT detailed for Seismic
Redundancy Factor: Rho: 1.00
Fundamental Period: Ta: 0.1758
R-Factor: 3.00
Overstrength Factor: Omega: 2.50
Deflection Amplification Factor: Cd: 3.00
Base Shear: V: 0.0100 x W



STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
PROFESSIONAL ENGINEER
05/01/24

PERMIT SET- For Building Dept. Approval

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Lee's Summit Development Services Department
05/01/2024

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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
PROJECT: LSMO Water Utilites
BUILDER'S PO#:

JOB #: 24-007756-01
DATE: 5/19/2024
DRAWN/CHECKED: ETH JRM
PAGE:

Butler Manufacturing
VPC VERSION: 4.11
a division of BlueScope Buildings North America, Inc.

VPC FILENAME: 24-007756-01
5/1/2024 13:12:11

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
05/01/2024

PERMIT SET- For Building Dept. Approval

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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/07/2024

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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

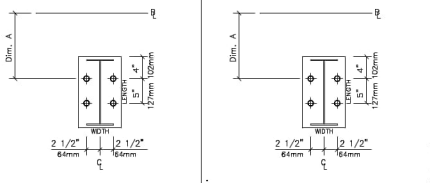
ERECTION NOTES

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

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

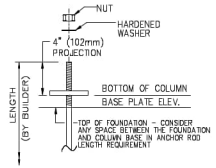
JOB #: 24-007756-01
DATE: 4/19/2024
DRAWN/CHECKED: ETH JRP
PAGE: 3
VPC VERSION: 2021

VPC FILENAME: 24-007756-01
5/1/2024
13:12:12



D1 (4)3/4" Dia.
Plate W=8", L=1'-1"
Dim: A=5 1/8"
Elev.=106'-0"

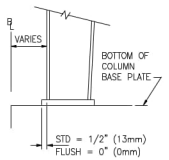
D2 (4)3/4" Dia.
Plate W=8", L=1'-1"
Dim: A=1'-0"
Elev.=106'-0"



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.

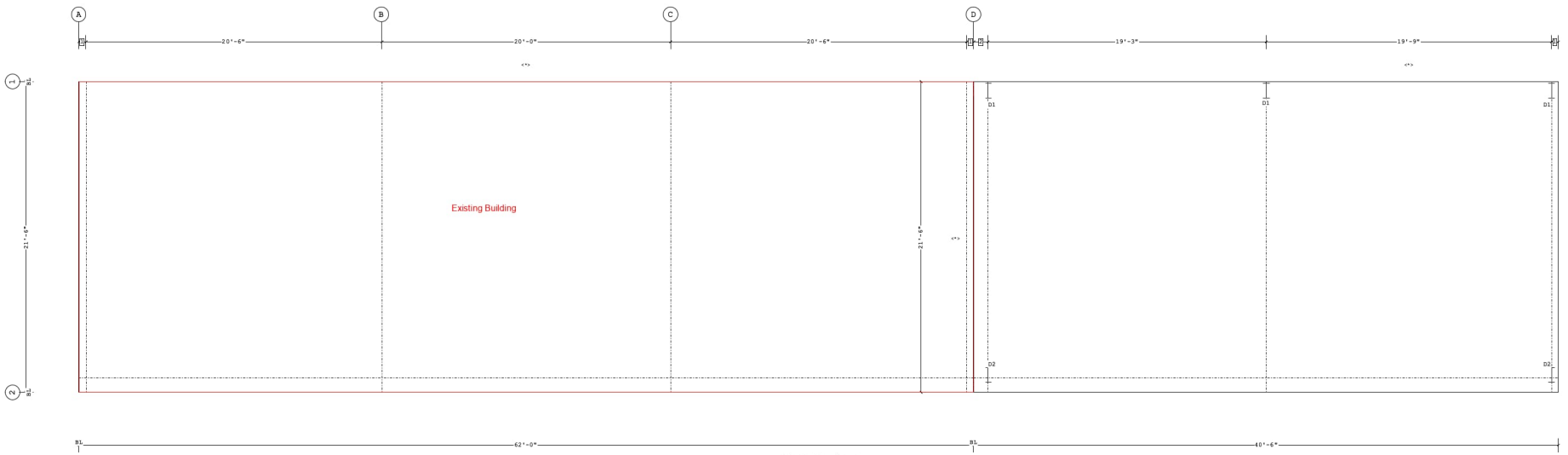
THE ANCHOR ROD PROJECTION MAY NEED TO BE CUT OFF IF THERE IS INTERFERENCE WITH OTHER PARTS.

SUGGESTED ANCHOR ROD PROJECTION



TYPICAL COLUMN BASE PLATE DETAIL

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 (7th-ASKS), (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.



ANCHOR ROD PLAN

2 1'-0"
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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D	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102	ANCHOR ROD PLAN	

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

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

JOB #: 24-007756-01
DATE: 5/19/2024
DRAWN/CHECKED: ETH JRM
PAGE:

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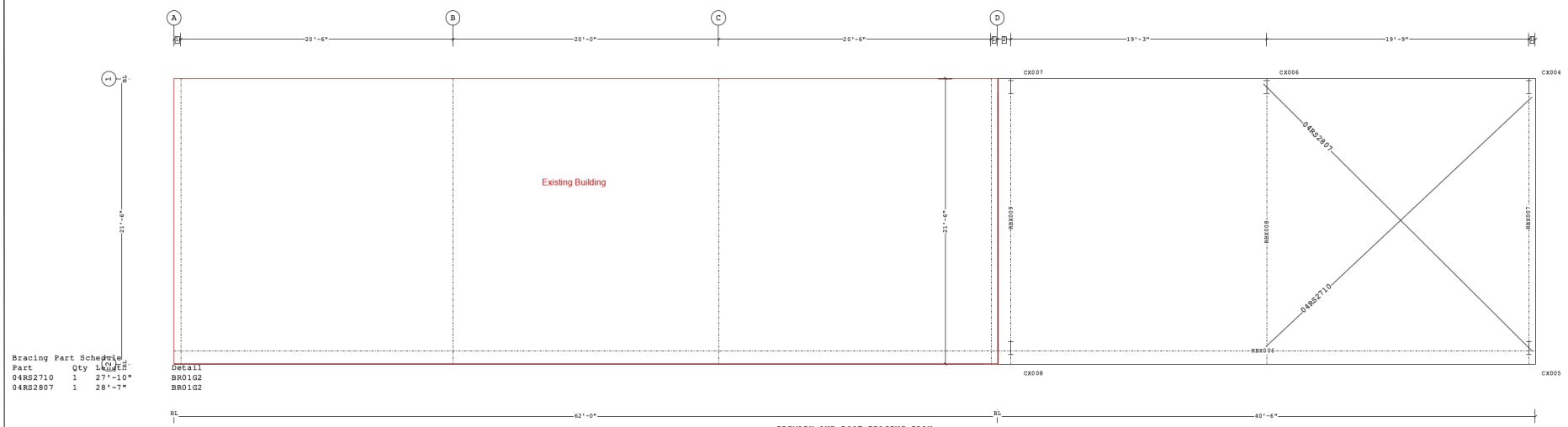
As Noted on Plans Review
05/01/2024
Development Services Department
Lee's Summit, Missouri

ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
STATE OF MISSOURI
PROFESSIONAL ENGINEER
05/01/24



PRIMARY AND ROOF BRACING PLAN

Bracing Part Schedule

Part	Qty	Length	Detail
04RS2710	1	27'-10"	BR01G2
04RS2807	1	28'-7"	BR01G2

2 1'-0"
1 6"
Dimension Key

Shape Name = Alternate 3, Shape = Alternate 3 ADDITION

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.

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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#:

JOB #: 24-007756-01
DATE: 5/19/2024
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PAGE: 1 of 1

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VPC FILENAME: 24-007756-01

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ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
PROFESSIONAL ENGINEER
STATE OF MISSOURI
05/01/2024

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As Noted on Plans Review
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Lee's Summit, Missouri
05/01/2024

Frame Member Schedule

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
RBX006	1-2	12.0000	.6250	.1875	1'-11"	1'-11"	37'-10"	2456#

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

FRAME CROSS SECTION AT FRAME LINE(S) 2

3 3'-6"
2 1'-7"
1 1'-1"
☐ Dimension Key

Shape Name = Alternate 3 ADDITION Wall 1, Frame 1

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

DRAWING SCALE: NTS

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FRAME CROSS SECTION AT FRAME LINE(S) 2

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

JOB #: 24-00775_-01
DATE: _/19/2024
DRAWN/CHECKED: ETH JR
PAGE: 6

BUTLER
Butler Manufacturing
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STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
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05/01/2024

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Development Services Department
Lee's Summit, Missouri
08/07/2024

VPC FILENAME: 24-007756-01
5/1/2024
13:12:16

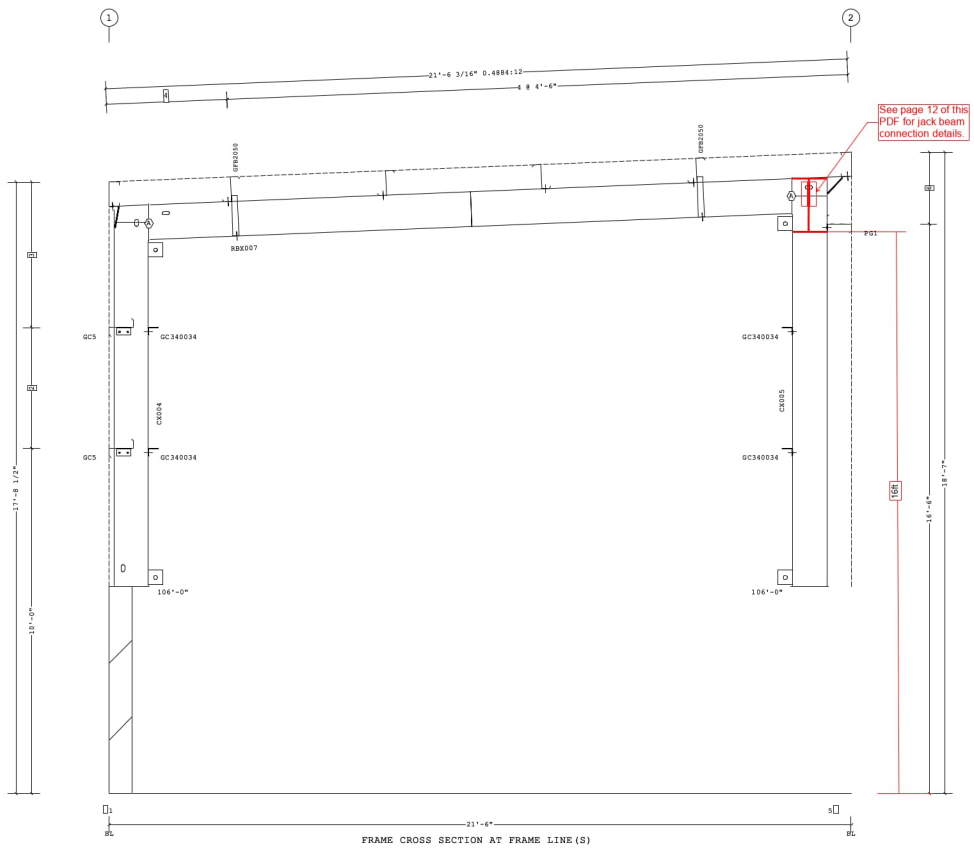
Frame Member Schedule

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX004	1	5.0000	.1345	.1345	1'-0"	1'-0"	11'-0 9/16"	138#
RBX007	2-3	5.0000	.1345	.1345	1'-0"	1'-0"	18'-8 3/16"	201#
CX005	4	5.0000	.2500	.1345	1'-0"	1'-0"	11'-10 1/8"	194#

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo
A	4	A325	1/2"	1 1/2"	3/8"	1	1	49080

Frame Clearances
Horiz. Clearance between members 1(CX004) and 4(CX005): 18'-7 7/8"
Vert. Clearance at member 1(CX004): 16'-0 1/16"
Vert. Clearance at member 4(CX005): 16'-9 1/8"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S)

6 2'-1"
5 8 1/2"
4 3'-6 3/16"
3 4'-2 1/2"
2 3'-6"
1 1 5/8"
☐ Dimension Key

Shape Name = Alternate 3 ADDITION Wall 2, Frame 1

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.

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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#:

JOB #: 24-007756-01
DATE: 7/19/2024
DRAWN/CHECKED: ETH / JRM
PAGE:

Butler Manufacturing
VPC VERSION: 4.11
a division of BlueScope Buildings North America, Inc.

VPC FILENAME: 24-007756-01
5/1/2024 13:12:17

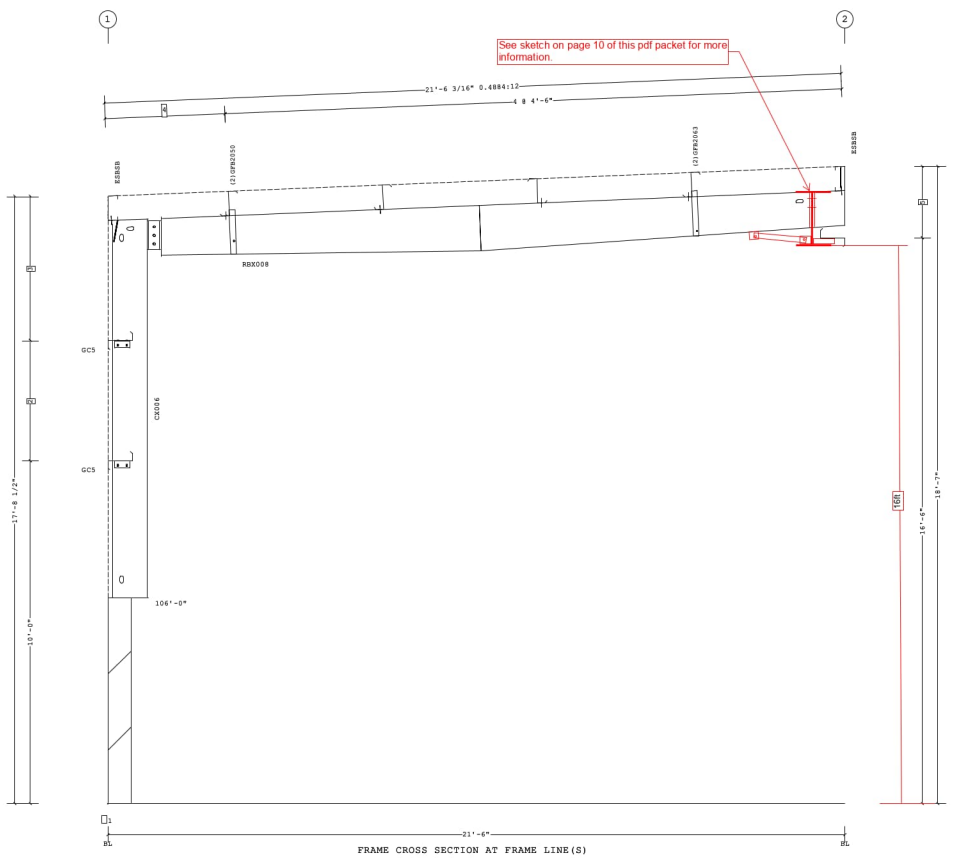
STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
PROFESSIONAL ENGINEER
05/01/24

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/01/2024

Frame Member Schedule

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX006	1	5.0000	.1345	.1345	1'-0"	1'-0"	11'-0 9/16"	130#
RBX008	2	5.0000	.1875	.1345	1'-0 13/16"	1'-4"	20'-0 1/16"	267#
	3	5.0000	.1875	.1345	1'-4"	1'-0 1/4"		

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



FRAME CROSS SECTION AT FRAME LINE(S)

5 2'-1"
4 3'-6 3/16"
3 4'-2 1/2"
2 3'-6"
1 1 5/8"
Dimension Key

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.

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Shape Name = Alternate 3 ADDITION Wall 2, Frame 2

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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#:

JOB #: 24-007756-01
DATE: 5/19/2024
DRAWN/CHECKED: ETH JRM
PAGE: 8
VPC VERSION: 2021

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

VPC FILENAME: 24-007756-01

5/1/2024 13:12:18

PERMIT SET- For Building Dept. Approval

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
PROFESSIONAL ENGINEER
05/0[illegible]/24

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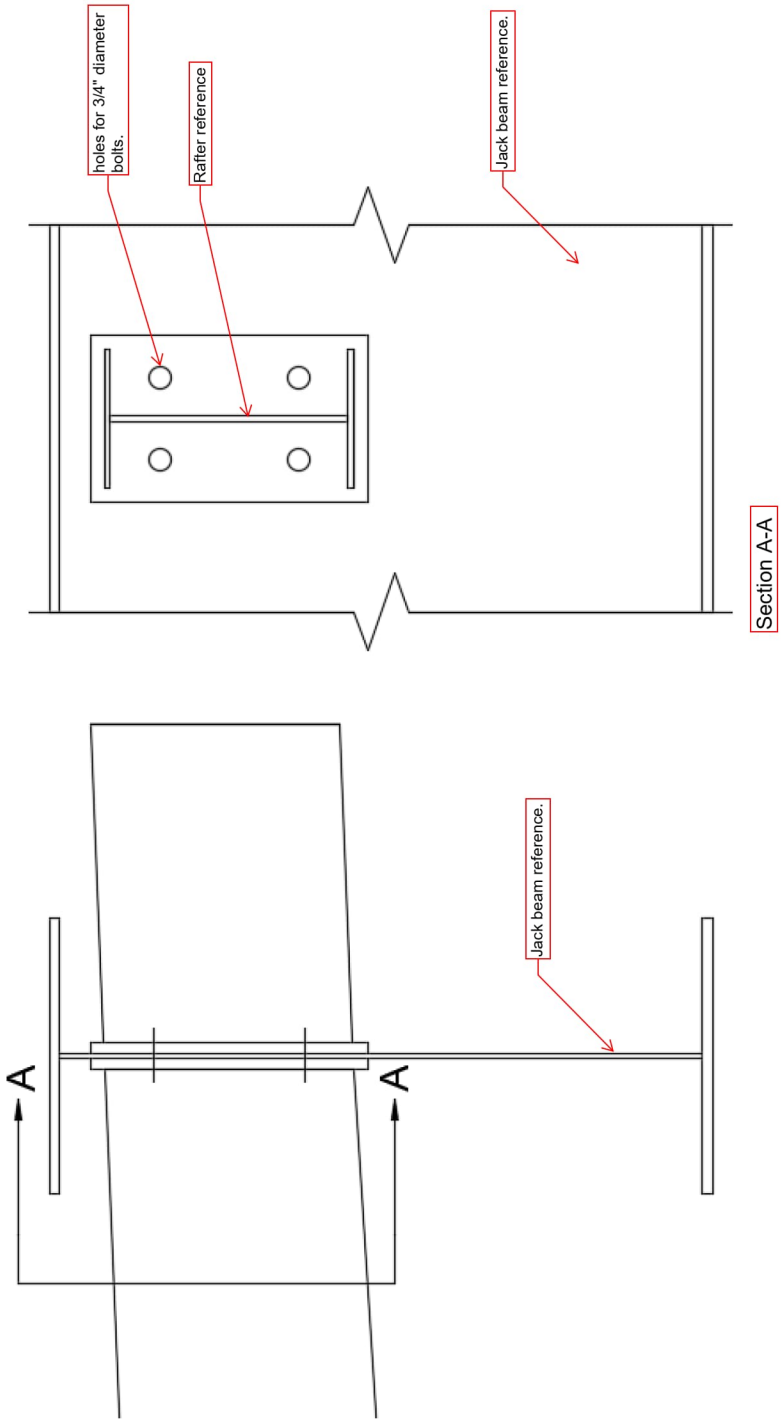
Development Services Department
Lee's Summit, Missouri
08/01/2024



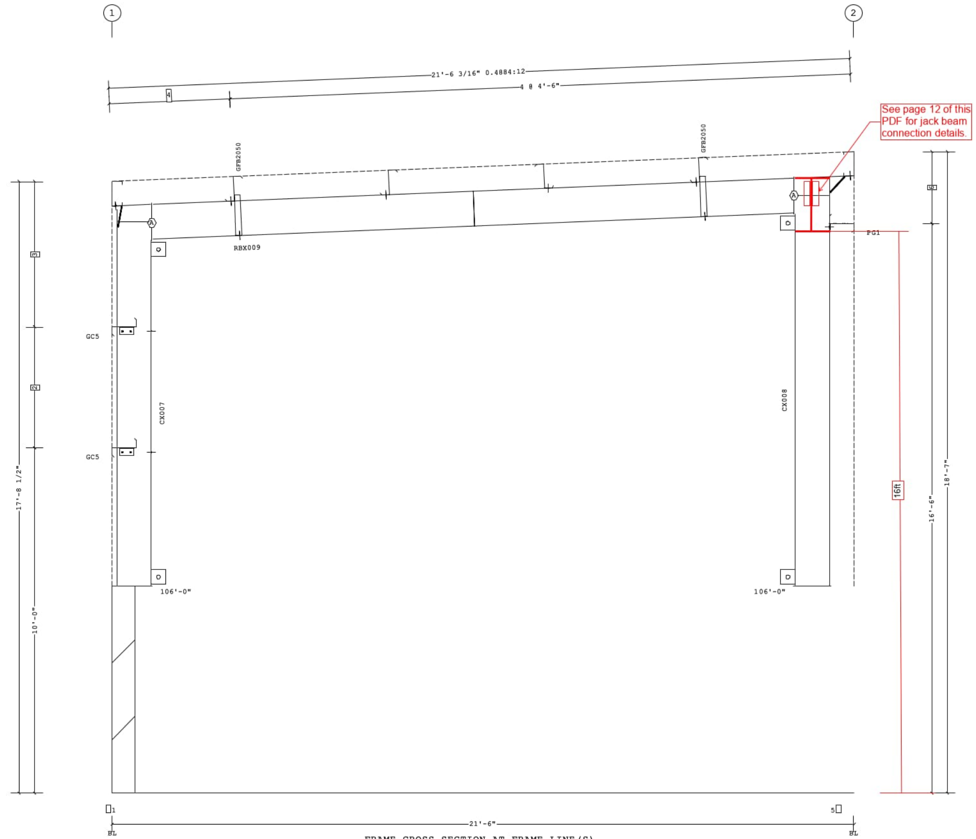
Frame Member Schedule

Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX007	1	5.0000	.1345	.1345	1'-0"	1'-0"	11'-0 9/16"	138#
RBX009	2-3	5.0000	.1345	.1644	1'-0"	1'-0"	18'-8 1/16"	223#
CX008	4	5.0000	.1345	.1345	1'-0"	1'-0"	11'-10 1/8"	148#

Bolt Connection & Plate Schedule

Id	Qty	Grade	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	PartNo
A	4	A325	1/2"	1 1/2"	3/8"	1	1	49080

Frame Clearances
Horiz. Clearance between members 1(CX007) and 4(CX008): 18'-7 7/8"
Vert. Clearance at member 1(CX007): 16'-0 1/16"
Vert. Clearance at member 4(CX008): 16'-9 1/8"
Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



6	2'-1"
5	8 1/2"
4	3'-6 3/16"
3	4'-2 1/2"
2	3'-6"
1	1 5/8"

Dimension Key

Shape Name = Alternate 3 ADDITION Wall 2, Frame 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

FRAME CROSS SECTION AT FRAME LINE(S)

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

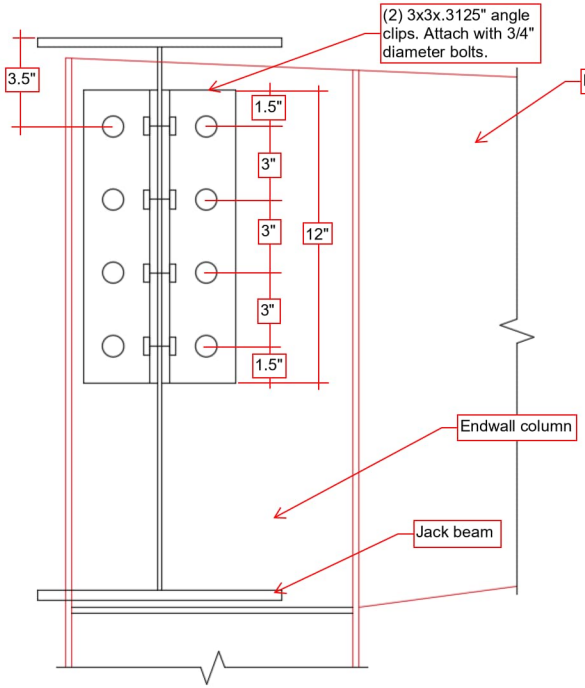
JOB #: 24-007756-01
DATE: 4/19/2024
DRAWN/CHECK: ETH JRB
PAGE: 9

Butler Manufacturing
VPC VERSION: 2021
a division of BlueScope Buildings North America, Inc.

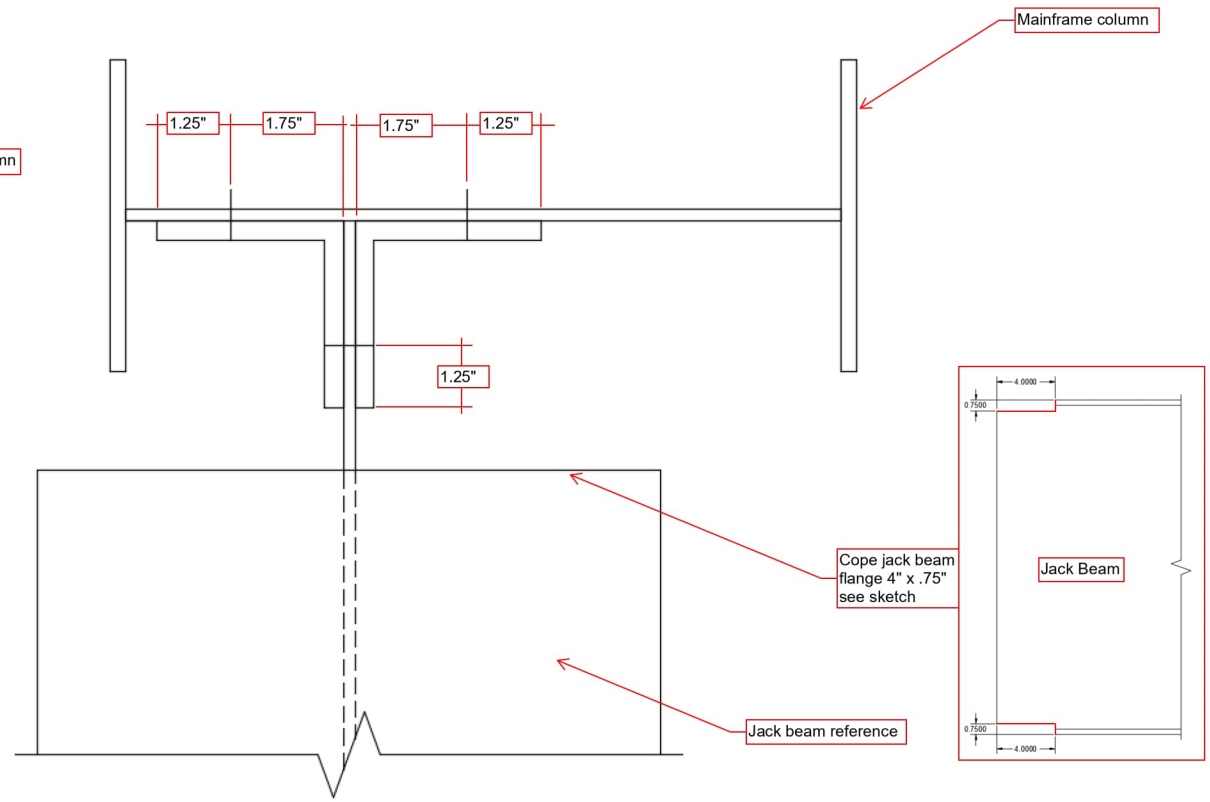
STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER
05/01/2024

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/07/2024

VPC FILENAME: 24-007756-01 5/1/2024 13:12:19



Jack beam connection Side View



Jack beam connection to mainframe planview

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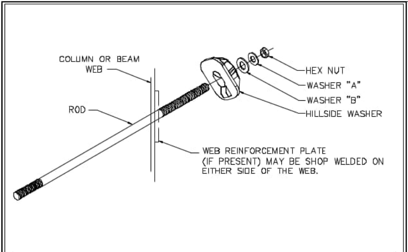
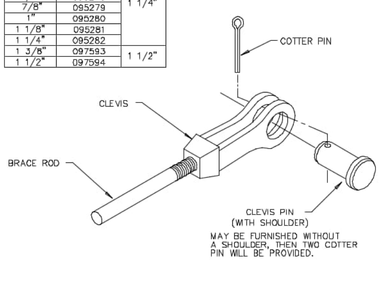
Development Services Department
Lee's Summit, Missouri
08/07/2024



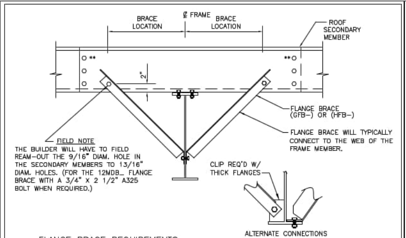
DESCRIPTION/PART NO				
ROD DIAM	NUT	HARD STEEL ROUND WASHER A	HARD STEEL WASHER B	HILLSIDE WASHER
3/8"	95321	3/8" FLAT WASHER (96408)	1/2" BEVEL SQUARE WASHER (46040)	543334
1/2"	95230	1/2" FLAT WASHER (95872)	3/4" FLAT ROUND WASHER (95946)	
5/8"	95233	5/8" FLAT WASHER (95945)		
3/4"	95235	3/4" FLAT WASHER (95946)	1" FLAT ROUND WASHER (95948)	543335
7/8"	95237	7/8" FLAT WASHER (95947)		
1"	95238	1" FLAT WASHER (95948)	1 1/8" FLAT ROUND WASHER (95949)	543336
1 1/8"	95239	1 1/8" FLAT WASHER (95949)		

REV. DATE:08/02/17 REV. NO.04
BR01G2
ROD BRACE
WEB SLOT ASSEMBLY

ROD DIA.	CLEVIS MARK NO.	CLEVIS PIN DIA.
3/8"	097572	1 1/4"
1/2"	097573	
5/8"	095277	
3/4"	095278	
7/8"	095279	
1"	095280	
1 1/8"	095281	
1 1/4"	095282	
1 3/8"	097593	1 1/2"
1 1/2"	097594	



REV. DATE:06/23/11 REV. NO. 03
BR02K1
ROD BRACING
CLEVIS ASSEMBLY



FLANGE BRACE REQUIREMENTS:

RULE#1– ALL FLANGE BRACES ON CROSS SECTIONS MUST BE INSTALLED.
RULE#2– SINGLE FLANGE BRACES ARE REQUIRED WHEN PART MARK ON CROSS SECTION IS NOT ACCOMPANIED BY (2).
RULE#3– FLANGE BRACES ARE REQUIRED BOTH SIDES OF THE FRAME WEB WHEN PART MARK IS ACCOMPANIED BY (2).
RULE#4– WHENEVER POSSIBLE, PLACE SINGLE BRACES TOWARD THE CENTER OF THE BUILDING.
RULE#5– WHENEVER POSSIBLE, PLACE ALL SINGLE BRACES ON THE SAME SIDE OF THE FRAME WEB.
** 10" & 11 1/2" PURLINS REQUIRE 3 BOLTS AT EACH END OF PURLIN LAP.

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

F = FEET G = GAGE
I = INCHES O = OPERATION
E = EIGHTHS C = FIN/COLOR

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

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

SECONDARY (STANDARD)
0 8 Z 1 9 1 1 4 1 7 – – – – –
* * * F F I I E G G * * * * *
DEPTH SHAPE LENGTH GAGE ADJUST.CODES

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

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

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

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

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

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

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

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

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

REV. DATE:08/29/12 REV. NO. 01
EN50B1
MARK NUMBER KEY
COMMON GENERATED MARK NUMBERS

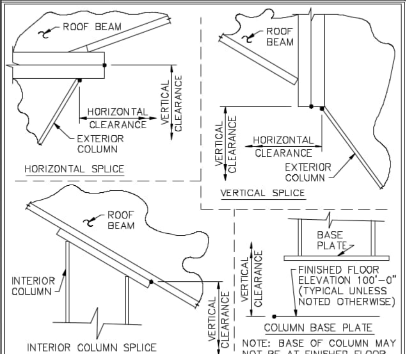
BASIC ERECTION GUIDE REQUIRED FOR THIS PROJECT:

REFER TO:

WIDESPAN STRUCTURAL SYSTEM
2013 INSTALLATION GUIDE

BUTLER

REV. DATE:01/30/14 REV. NO. 00
ENB002
BASIC ERECTION GUIDE – STRUCTURAL



REV. DATE:08/12/16 REV. NO. 00
PFR007
CLEAR HEIGHT DIMENSION WORK POINTS
AS SHOWN ON FRAME CROSS SECTION DRAWINGS

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

PRIMARY BRACING SED'S

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

JOB #: 24-007756-01
DATE: 4/19/2024
DRAWN/CHECKED: ETH JRP
PAGE: 10
VPC VERSION: 2021.1

Butler Manufacturing
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STATE OF MISSOURI
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VPC FILENAME: 24-007756-01
4/29/2024 SEDSheet 14:40:28

Secondary Part Schedule

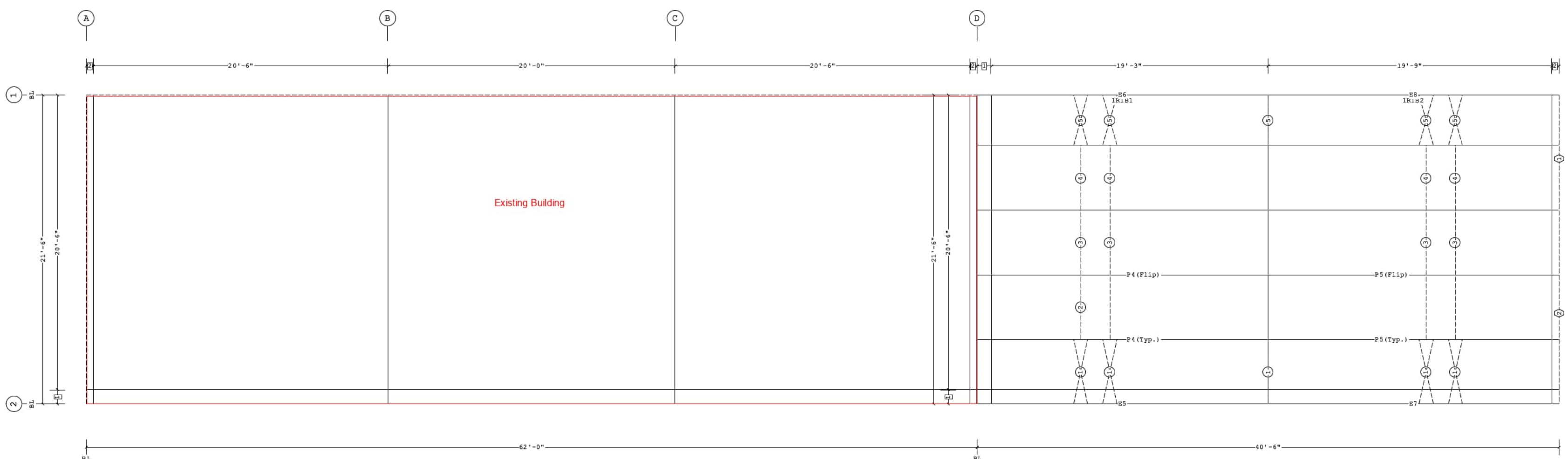
Mark	Part	Thick.	Depth	Lap	Detail
E5	08H2002417ADB30	0.0600	8 1/2"		BR09W2
E6	08E2002417ADB30	0.0600	8 1/2"		RS12PH,RS12PA,RS12PJ
E7	08H2002417BDB30	0.0600	8 1/2"		BR09W2
E8	08E2002417BDB30	0.0600	8 1/2"		RS12PH,RS12PA,RS12PJ
P4	08Z2302416A4B3	0.0680	8 1/2"	2'-10 1/2"	RS02T1,RS01T1
P5	08Z2302416B4B3	0.0680	8 1/2"	2'-10 1/2"	RS02T1,RS01T1

Secondary Bracing Schedule

Id	Qty	Mark No	Spacing
1	9	PBA0409	4'-6"
2	4	CPBA040510(Typ.	4'-6"
3	4	CPBC040906	4'-6"
4	4	CPBB040708	4'-6"
5	9	PBA0310	3'-6 3/16"

See SED:
BR09K5, BR09JG, BR09RY, BR09RZ, BR09PP
BR09K2

Part Mark Key
1 001SGA08094
2 001SGA12076



ROOF SECONDARY PLAN

2 6"
1 1'-0"
Dimension Key

Shape Name = Alternate 3, Shape = Alternate 3 ADDITION

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.

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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
Butler Manufacturing
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JOB #: 24-007756-01
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STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
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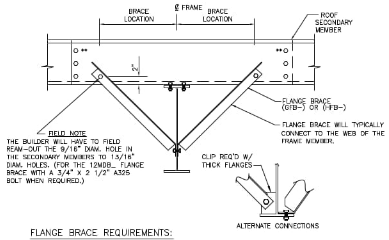

FLANGE BRACE REQUIREMENTS:
RULE#1– ALL FLANGE BRACES ON CROSS SECTIONS MUST BE INSTALLED.
RULE#2– SINGLE FLANGE BRACES ARE REQUIRED WHEN PART MARK ON CROSS SECTION IS NOT ACCOMPANIED BY (2).
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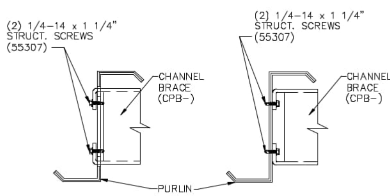
RULE#5– WHENEVER POSSIBLE, PLACE ALL SINGLE BRACES ON THE SAME SIDE OF THE FRAME WEB.
** 10" & 11 1/2" PURLINS REQUIRE 3 BOLTS AT EACH END OF PURLIN LAP.

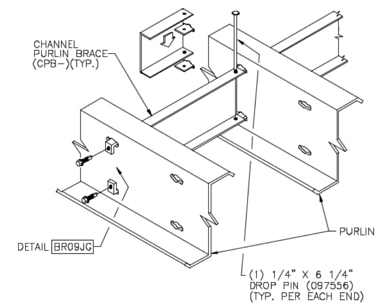
REV. DATE:05/08/18 | REV. NO. 02
BR06AE
TYPICAL FLANGE BRACE CONNECTIONS
CONT. PURLIN LAP SHOWN, CONT. GIRT & SIMPLE PURLIN

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 (55307) TO ATTACH.



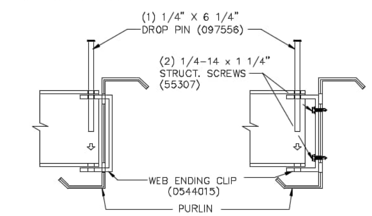
USE WHEN CHANNEL BRACE DOES LINE UP WITH THE SLOTS IN THE PURLIN WEB.
USE WHEN CHANNEL BRACE DOES NOT LINE UP WITH THE SLOTS IN THE PURLIN WEB.

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



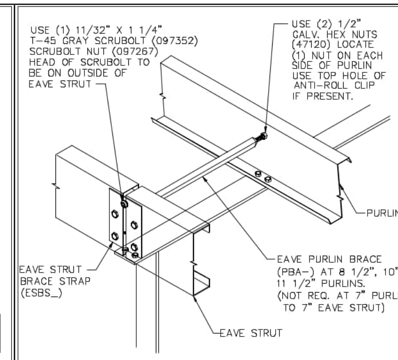
REV. DATE:07/01/09 | REV. NO. 00
BR09JH
SINGLE CHANNEL PURLIN BRACE
ENDING AT PURLIN WEB LOCATION

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.

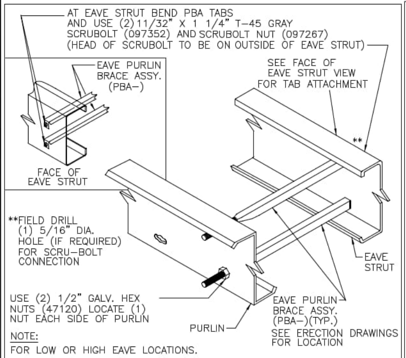


USE WHEN CHANNEL BRACE DOES LINE UP WITH THE SLOTS IN THE PURLIN WEB.
USE WHEN CHANNEL BRACE DOES NOT LINE UP WITH THE SLOTS IN THE PURLIN WEB.

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

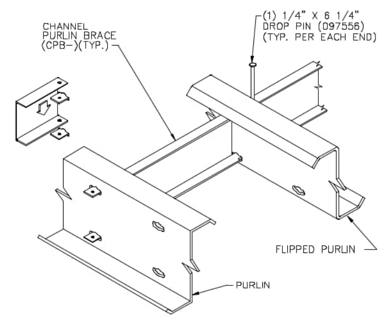


REV. DATE:07/20/10 | REV. NO. 05
BR09K2
EAVE BRACE STRAP AND EAVE PURLIN BRACE
LOCATED AT EAVE – CENTERLINE OF FRAME

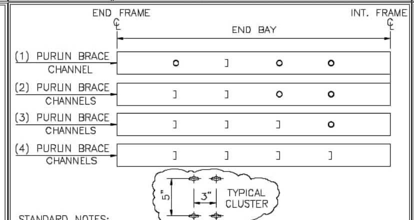


NOTE:
FOR LOW OR HIGH EAVE LOCATIONS.

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

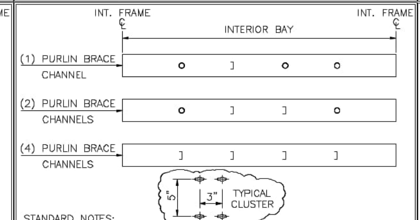


REV. DATE:01/06/12 | REV. NO. 01
BR09PP
SINGLE CHANNEL PURLIN BRACE
REVERSE TOP FLANGE LOCATION



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.

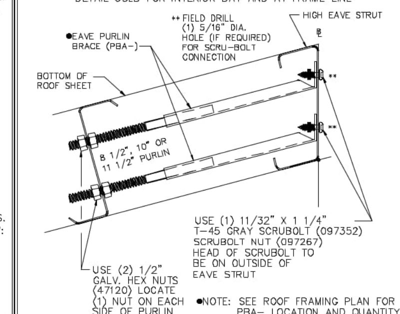
REV. DATE:07/01/09 | REV. NO. 00
BR09RY
PURLIN BRACE CLUSTER LOCATION
END BAY CHANNEL LOCATION



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

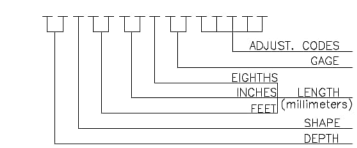
REV. DATE:07/01/09 | REV. NO. 00
BR09RZ
PURLIN BRACE CLUSTER LOCATION
INTERIOR BAY CHANNEL LOCATION

DETAIL USED FOR INTERIOR BAY AND AT FRAME LINE



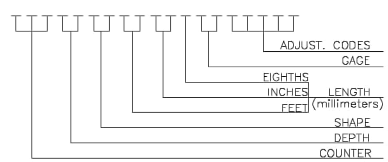
●NOTE: SEE ROOF FRAMING PLAN FOR PBA– LOCATION AND QUANTITY. LOCATE PBA– IN UPPER POSITION WHEN ONLY (1)PBA IS REQUIRED.

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



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

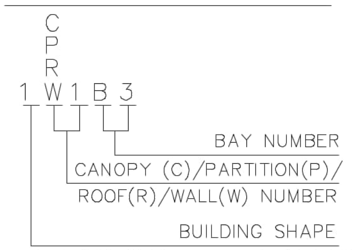
REV. DATE:07/01/09 | REV. NO. 00
EN51B1
SECONDARY PART MARK NUMBER
COMMON GENERATED MARK NUMBERS



DEPTH	SHAPE	GAGE
07 = 7"	ZS = ZEE	11 = 0.113
08 = 8 1/2"	CS = CEE	12 = 0.098
10 = 10"	ES = LOW EAVE STRUT	13 = 0.088
11 = 11 1/2"	HS = HIGH EAVE STRUT	14 = 0.079
	BB = BACK TO BACK CEE	15 = 0.073
	FB = FACE TO BACK CEE	16 = 0.068
	FF = FACE TO FACE CEE	17 = 0.060

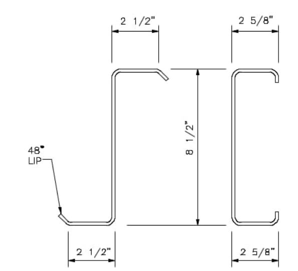
REV. DATE:07/01/09 | REV. NO. 00
EN51B2
SPECIAL SECONDARY PART MARK KEY
COMMON GENERATED MARK NUMBERS

ERECTION DRAWING PART MARK

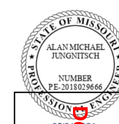


THE BAY/BUNDLE CODE IDENTIFIES THE BUILDING CANOPY/PARTITION/ ROOF/WALL PLANE AND BAY

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



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



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

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

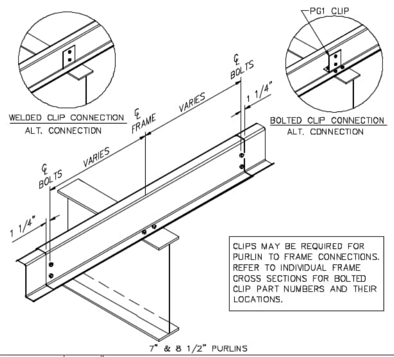
ROOF SECONDARY SED'S (a)

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

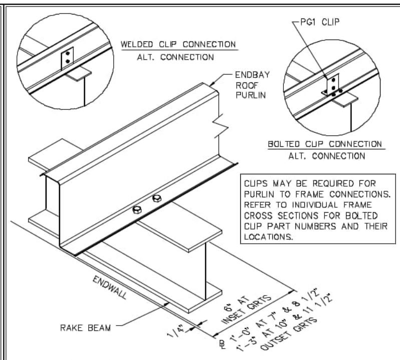
BUTLER
Butler Manufacturing
a division of BlueScope Buildings North America, Inc.
JOB #: 24-007756-01
DATE: 4/19/2024
DRAWN/CHECKED: ETH JRG
PAGE: 12
VPC VERSION: 2021.1

VPC FILENAME: 24-007756-01
4/29/2024 SEDSheet 14:40:31

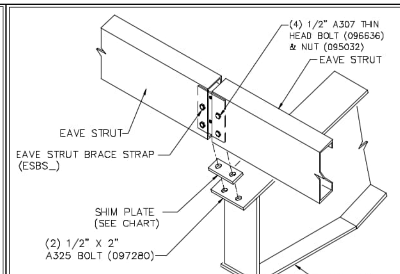
RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/07/2024



REV. DATE:06/17/15 REV. NO. 02 RS01T1 — PURLIN CONNECTION AT INTERIOR FRAME
CONTINUOUS PURLINS

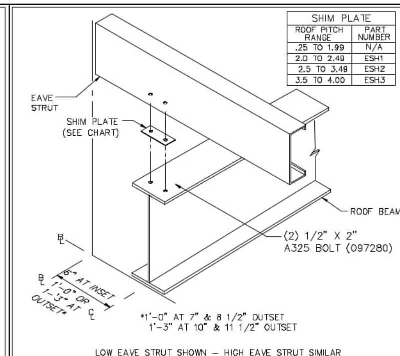


REV. DATE:06/17/15 REV. NO. 02 RS02T1 — PURLIN CONNECTION TO END FRAME
CONTINUOUS PURLINS



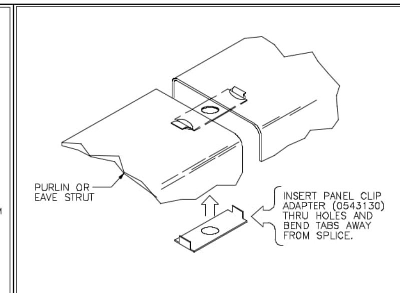
SHIM PLATE	
ROOF PITCH RANGE	PART NUMBER
.25 TO 1.99	N/A
2.0 TO 2.49	ESH1
2.5 TO 3.49	ESH2
3.5 TO 4.00	ESH3

REV. DATE:07/20/19 REV. NO. 03 RS12PA — EAVE STRUT CONNECTION
AT INTERIOR FRAME



SHIM PLATE	
ROOF PITCH RANGE	PART NUMBER
.25 TO 1.99	N/A
2.0 TO 2.49	ESH1
2.5 TO 3.49	ESH2
3.5 TO 4.00	ESH3

REV. DATE:03/26/15 REV. NO. 01 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.

REV. DATE:12/05/09 REV. NO. 00 RS12PJ — PANEL CLIP AT EAVE STRUT
LOCATED WHERE STRUT STOPS BUT CONNECTION REQUIRED

STATE OF MISSOURI — ALAN MICHAEL JUNGNITSCH — NUMBER PE-2018029666 — PROFESSIONAL ENGINEER — 05/01/2024

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/07/2024

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.

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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 MFG.

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D — BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

REV:	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

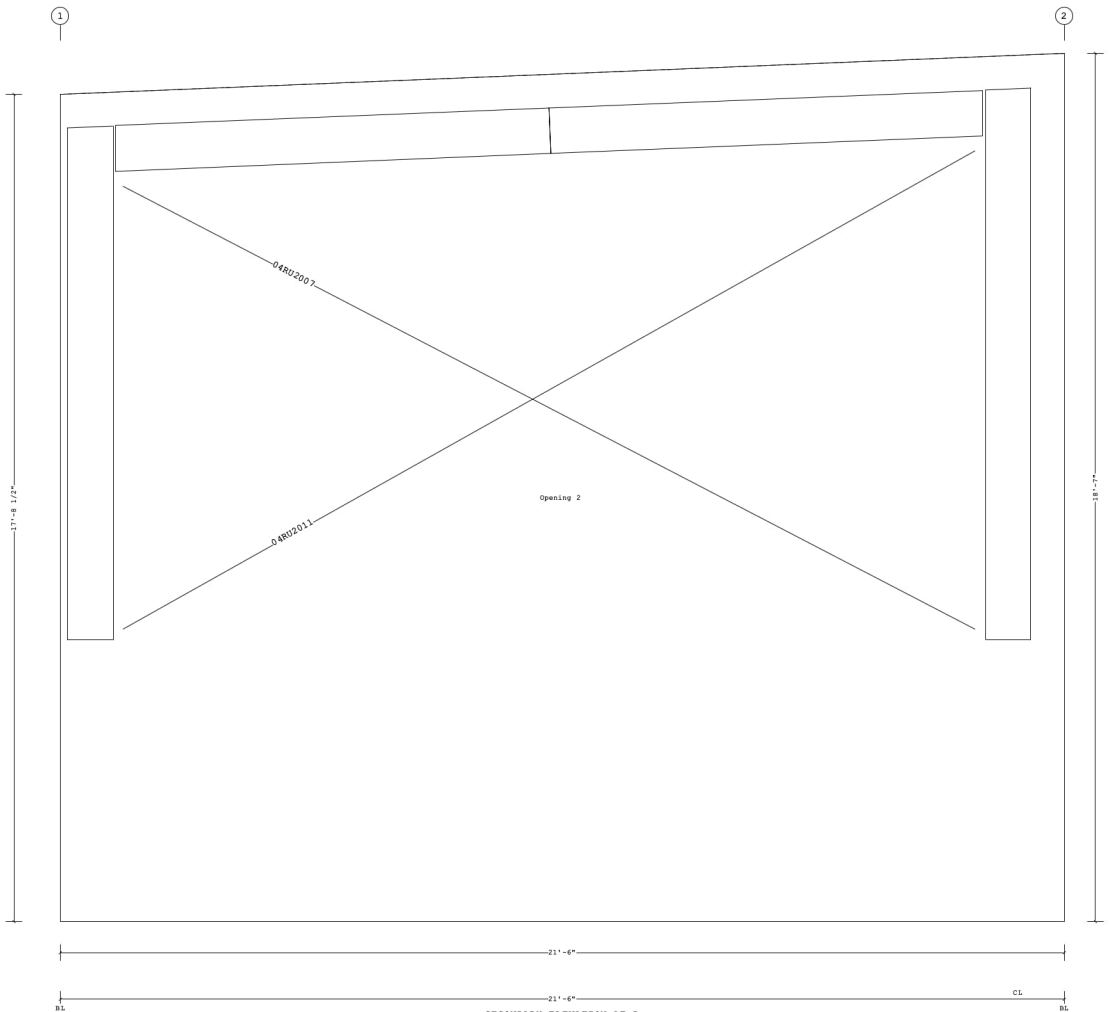
ROOF SECONDARY SED'S (b)

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

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

JOB #: 24-007756-01
DATE: 4/19/2024
DRAWN/CHECKED: ETH JRH
VPC VERSION: 2021
PAGE: 13

VPC FILENAME: 24-007756-01 4/29/2024 SEDSheet 14:40:32



SECONDARY ELEVATION AT D

Shape Name = Alternate 3 ADDITION, Wall = 1

Bracing Part Schedule

Part	Qty	Length	Detail
04RU2011	1	20'-11"	BR02K1
04RU2007	1	20'-7"	BR02K1

PERMIT SET- For Building Dept. Approval

ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
STATE OF MISSOURI
PROFESSIONAL ENGINEER
05/01/2024

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
05/01/2024

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REV.	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

SECONDARY ELEVATION AT D

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

JOB #: 24-007756-01
DATE: 5/19/2024
DRAWN/CHECKED: ETH JRM
PAGE: 14

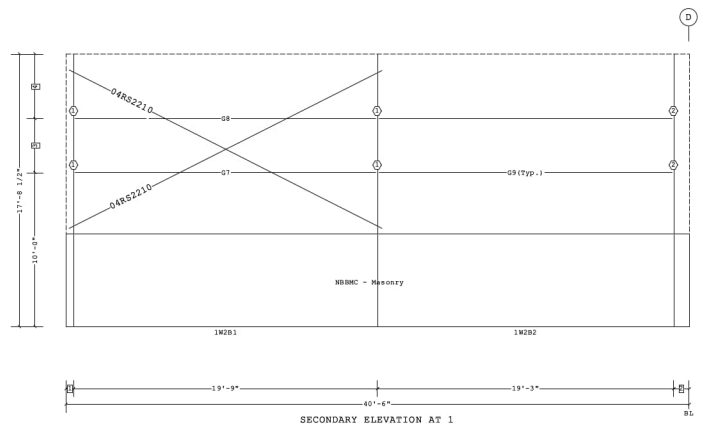
Butler Manufacturing
VPC VERSION: 4.11
a division of BlueScope Buildings North America, Inc.

VPC FILENAME: 24-007756-01

5/1/2024 13:12:21

Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G7	0821906411EE10	0.1130	8 1/2"		WS12H6,WSR004,WSR065,WSR063,BRR052
G8	0821906415EE10	0.0730	8 1/2"		WS12H6,WSR004,WSR065,WSR063,BRR052
G9	0821900415EE10	0.0730	8 1/2"		WS12H6,WSR004,WSR065,BRR052,WSR063



SECONDARY ELEVATION AT 1

Bracing Part Schedule

Part	Qty	Length	Detail
04RS2210	2	22'-10"	BR01G2

4	4'-2 1/2"		
3	3'-6"	3	0543333
2	1'-0"	2	GFA200
1	6"	1	GFA106

☐ Dimension Key ◯ Part Mark Key

Shape Name = Alternate 3 ADDITION, Wall = 2

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 1

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

JOB #: 24-007756-01
DATE: 5/19/2024
DRAWN/CHECKED: ETH JRM
PAGE: 19

Butler Manufacturing
VPC VERSION: 2.11
a division of BlueScope Buildings North America, Inc.

VPC FILENAME: 24-007756-01

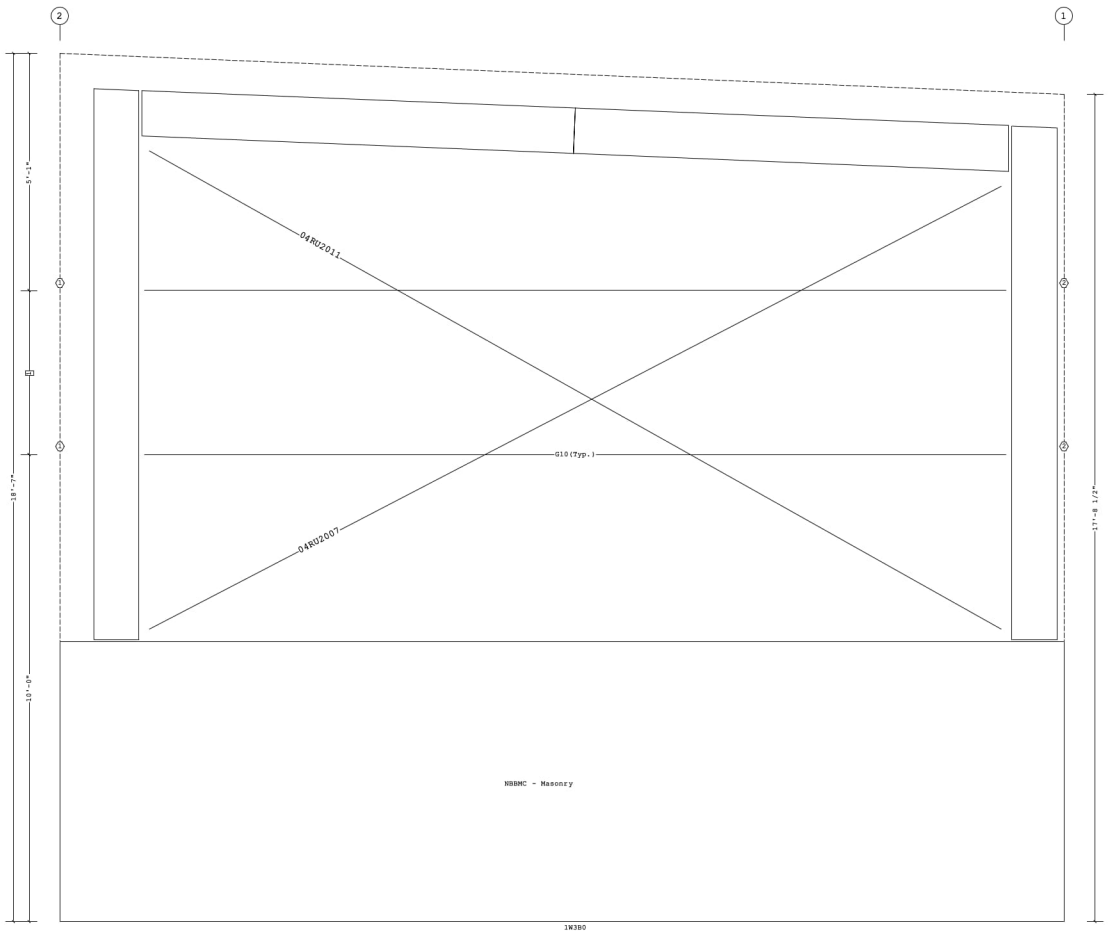
5/1/2024 13:12:22

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
PROFESSIONAL ENGINEER
05/0[illegible]/24

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
05/30/2024

Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G10	00508ZS180531100	0.1130	8 1/2"		WS12H6,WSR065,BRR052,WSR004



WALL SECONDARY ELEVATION WALL 3

Shape Name = Alternate 3 ADDITION, Wall = 3

Bracing Part Schedule

Part	Qty	Length	Detail
04RU2007	1	20'-7"	BR02K1
04RU2011	1	20'-11"	BR02K1

		2	GFA200
1	3'-6"	1	GFA206

☐ Dimension Key ◯ Part Mark Key

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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#:

JOB #: 24-00775-01
DATE: 5/19/2024
DRAWN/CHECKED: ETH / JRM
PAGE: 19

Butler Manufacturing
VPC VERSION: 4.11
a division of BlueScope Buildings North America, Inc.

PERMIT SET- For Building Dept. Approval

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
PROFESSIONAL ENGINEER
05/0[illegible]/24

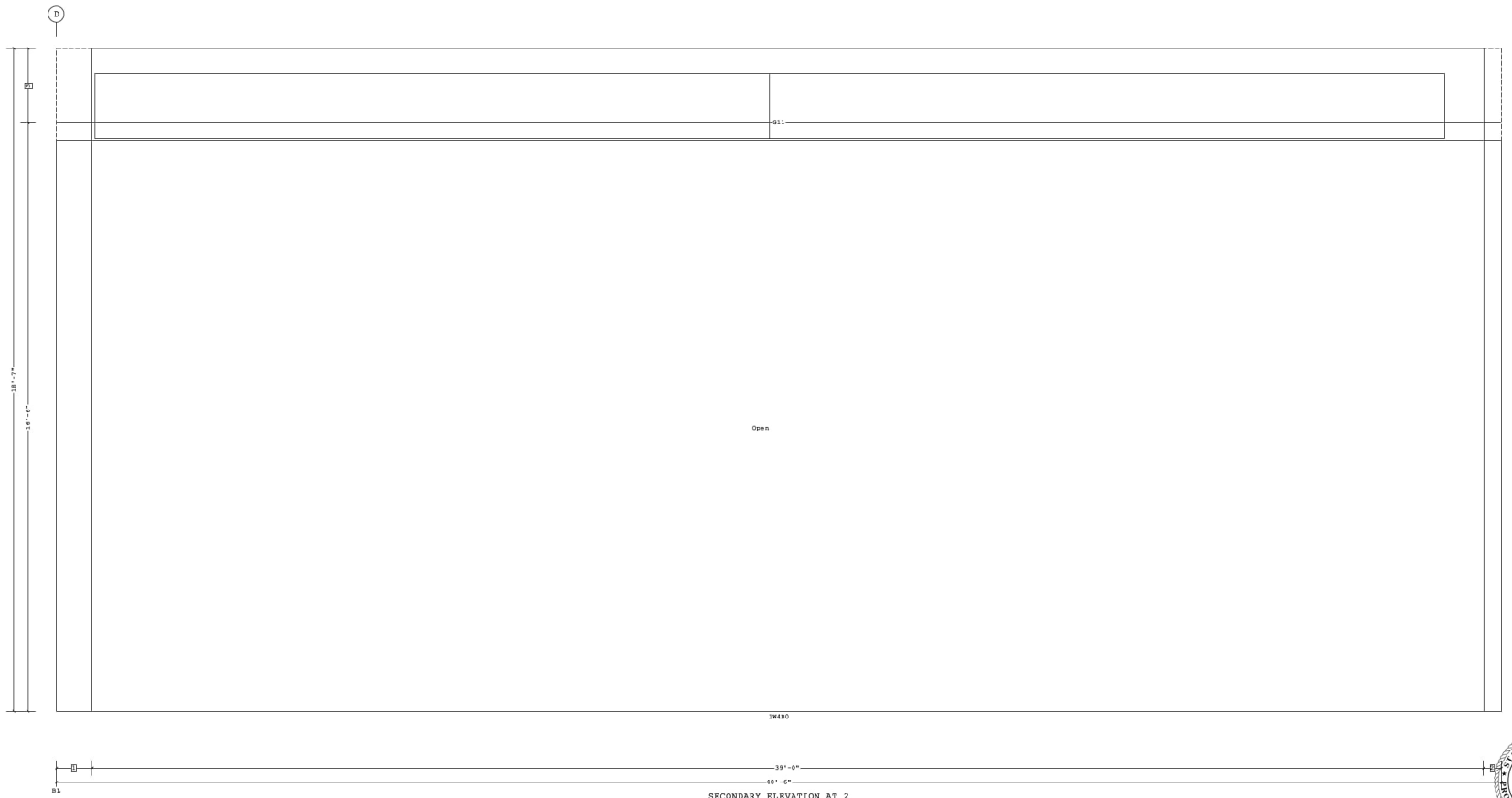
RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
05/30/2024

VPC FILENAME: 24-00775-01

5/1/2024 13:12:23

Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G11	08Z4005411AB00	0.1130	8 1/2"		WS12H6,WSR004



SECONDARY ELEVATION AT 2

3 2'-1"
2 6"
1 1'-0"
Dimension Key

Shape Name = Alternate 3 ADDITION, Wall = 4

PERMIT SET- For Building Dept. Approval

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.
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

SECONDARY ELEVATION AT 2

REV.	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

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

JOB #: 24-007756-01
DATE: 5/19/2024
DRAWN/CHECKED: ETH JRM
PAGE: 12

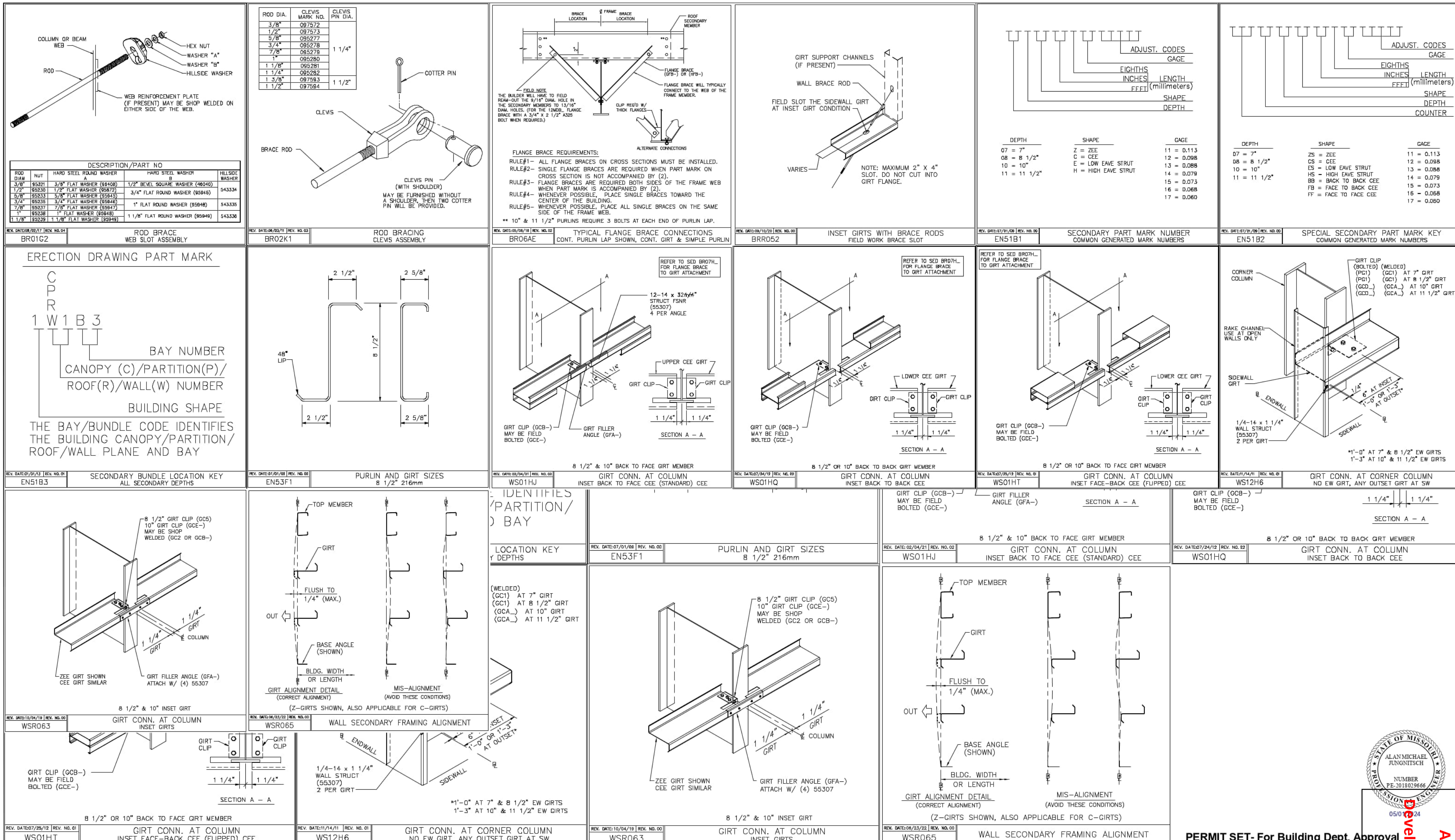
Butler Manufacturing
VPC VERSION: 4.11
a division of BlueScope Buildings North America, Inc.

VPC FILENAME: 24-007756-01

5/1/2024 13:12:24

ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
REGISTERED PROFESSIONAL ENGINEER
STATE OF MISSOURI
05/01/24

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
05/01/2024


ROD BRACE
WEB SLOT ASSEMBLY
BR01G2
COLUMN OR BEAM WEB
ROD
HEX NUT
WASHER "A"
WASHER "B"
HILLSIDE WASHER
WEB REINFORCEMENT PLATE (IF PRESENT) MAY BE SHOP WELDED ON EITHER SIDE OF THE WEB.
DESCRIPTION/PART NO
ROD BRACING
CLEVIS ASSEMBLY
BR02K1
COTTER PIN
CLEVIS
BRACE ROD
CLEVIS PIN (WITH SHOULDER)
MAY BE FURNISHED WITHOUT A SHOULDER, THEN TWO COTTER PIN WILL BE PROVIDED.
TYPICAL FLANGE BRACE CONNECTIONS
CONT. PURLIN LAP SHOWN, CONT. GIRT & SIMPLE PURLIN
BR06AE
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.
INSET GIRTS WITH BRACE RODS
FIELD WORK BRACE SLOT
BRR052
GIRT SUPPORT CHANNELS (IF PRESENT)
WALL BRACE ROD
FIELD SLOT THE SIDEWALL GIRT AT INSET GIRT CONDITION
VARIES
NOTE: MAXIMUM 2" X 4" SLOT. DO NOT CUT INTO GIRT FLANGE.
SECONDARY PART MARK NUMBER
COMMON GENERATED MARK NUMBERS
EN51B1
SPECIAL SECONDARY PART MARK KEY
COMMON GENERATED MARK NUMBERS
EN51B2
ERECTION DRAWING PART MARK
BAY NUMBER
CANOPY (C)/PARTITION(P)/ ROOF(R)/WALL(W) NUMBER
BUILDING SHAPE
THE BAY/BUNDLE CODE IDENTIFIES THE BUILDING CANOPY/PARTITION/ ROOF/WALL PLANE AND BAY
SECONDARY BUNDLE LOCATION KEY
ALL SECONDARY DEPTHS
EN51B3
PURLIN AND GIRT SIZES
8 1/2" 216mm
EN53F1
GIRT CONN. AT COLUMN
INSET BACK TO FACE CEE (STANDARD) CEE
WS01HJ
GIRT CONN. AT COLUMN
INSET BACK TO BACK CEE
WS01HQ
GIRT CONN. AT COLUMN
INSET FACE–BACK CEE (FLIPPED) CEE
WS01HT
GIRT CONN. AT CORNER COLUMN
NO EW GIRT, ANY OUTSET GIRT AT SW
WS12H6
GIRT CONN. AT COLUMN
INSET GIRTS
WSR063
WALL SECONDARY FRAMING ALIGNMENT
WSR065
GIRT ALIGNMENT DETAIL (CORRECT ALIGNMENT)
MIS–ALIGNMENT (AVOID THESE CONDITIONS)
(Z–GIRTS SHOWN, ALSO APPLICABLE FOR C–GIRTS)

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 SED'S

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

JOB #: 24-007756-01
DATE: 4/19/2024
DRAWN/CHECKED: ETH JRP
PAGE: 18
VPC VERSION: 2021

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

VPC FILENAME: 24-007756-01 4/29/2024 SEDSheet 15:16:44

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2018029666
PROFESSIONAL ENGINEER
05/01/2024

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/07/2024

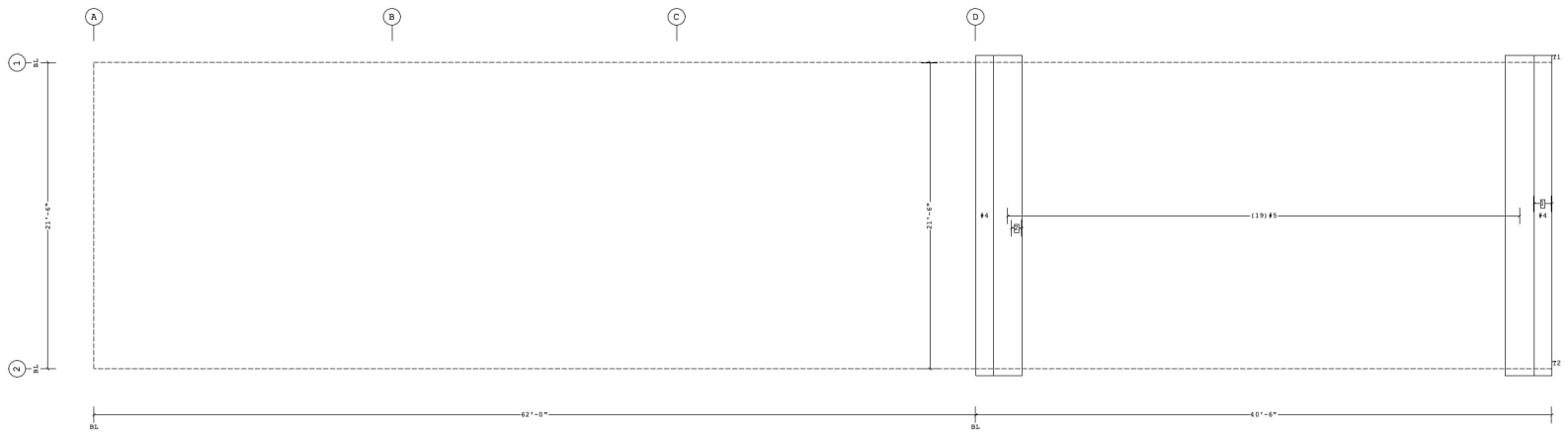
Covering Schedule

Id	Qty	Length	Type	Gage	OP	Fin.	Color	Direction
#4	2	22'-5 3/4"	MR24	24	30	X	01	Right to Left
#5	19	22'-5 3/4"	MR24	24	12	X	01	Right to Left

Oper. Code:30=SQ,SQ
Oper. Code:12=SQ,SQ
Finish:X=Special Request
Color:01=LSMO PEWTER

Trim Schedule

Id	Parts	Color	Details
T1	0630043	Match Wall Color	
T2	0630043	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

ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
05/01/2024

Shape Name = Alternate 3, Shape = Alternate 3 ADDITION

PERMIT SET- For Building Dept. Approval

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

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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

ROOF COVERING PLAN

REV.	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

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

JOB #: 24-007756-01
DATE: 5/19/2024
DRAWN/CHECKED: ETH / JRM
PAGE: 19

Butler Manufacturing
VPC VERSION: 4.11
a division of BlueScope Buildings North America, Inc.

VPC FILENAME: 24-007756-01
5/1/2024 13:12:25

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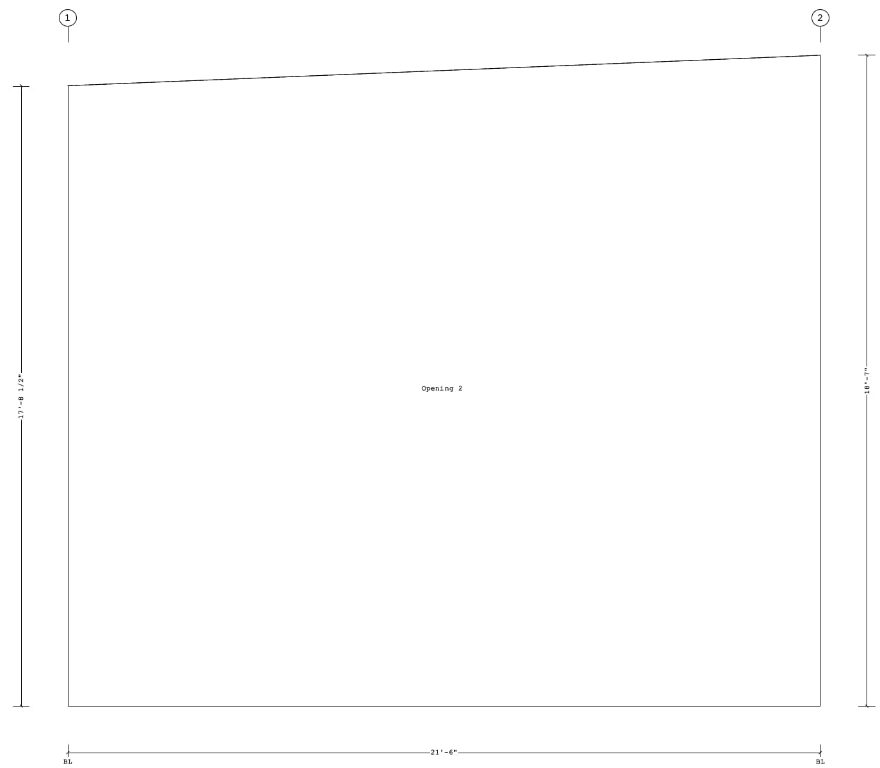
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
05/01/2024



COVERING ELEVATION AT D

PERMIT SET- For Building Dept. Approval

Shape Name = Alternate 3 ADDITION, 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
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D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

COVERING ELEVATION AT D

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
a division of BlueScope Buildings North America, Inc.

JOB #: 24-007756-01
DATE: 4/19/2024
DRAWN/CHECKED: ETH JRB
PAGE: 20
VPC VERSION: 2021.1

VPC FILENAME: 24-007756-01
5/1/2024
13:12:26

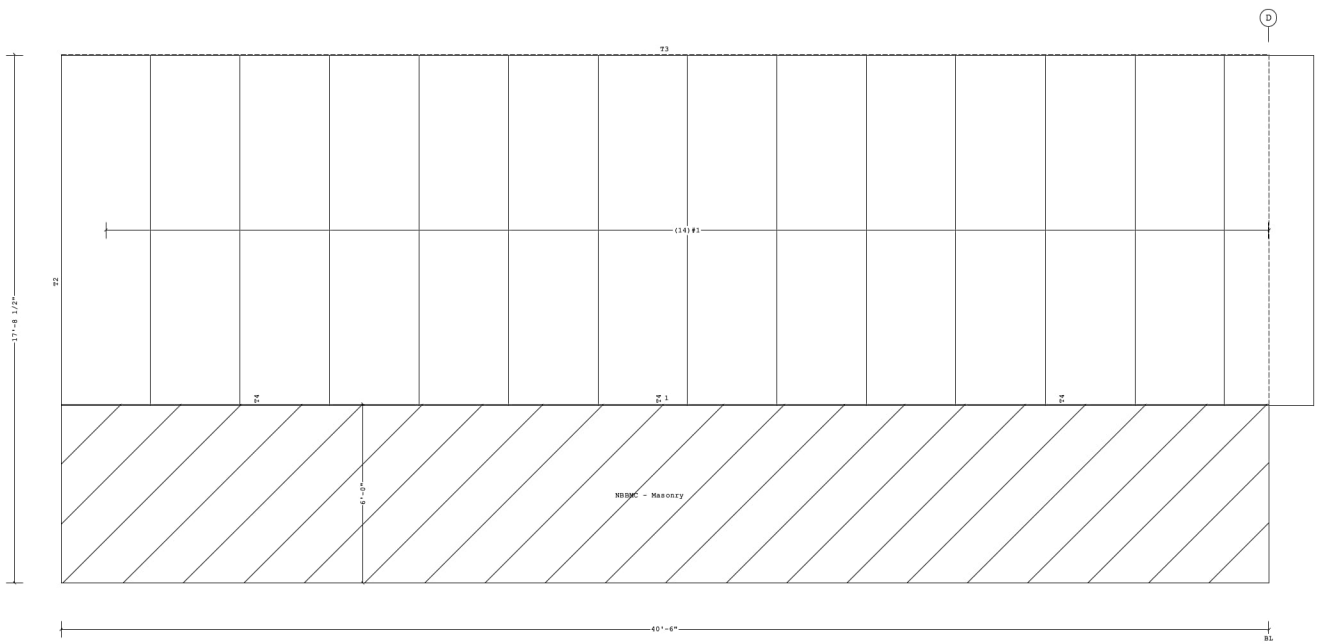
Covering Schedule

Id	Qty	Type	Start	Length	Gage	OP	Fin.	Color	Direction
#1	14	SHU		11'-8 3/4"	26	3	X	02	Left to Right

Oper. Code:3-SQ,SQ
Finish:X-Special Request
Color:02-LSMO PEWTER

Trim Schedule

Id	Parts	Color	Details
T1	(2.7)BG2415,(3.5)BT12A	Special Color 3	ENB006,GV386,GV443,NV115,NV120,NV128,NV130, NV135,NV143,NV664,WCB082,WCB083,WCB085, WCB086,WSR065
T2	(2)0620163,SHOCT12	Special Color 3	NV118,NV119,NV133,NV134
T3	(4)CLE12C,(2)GTR25,(3.5)SHCL12	Special Color 3	EN60B1,EN60C1,EN60D1,MV252,NV110,NV116,NV131
T4	0008738,(2)4CE45,4CE75,(2)CP410	Special Color 3	KV846



COVERING ELEVATION AT 1

Fastener Schedule

Part	Description
0097365SPR	(T-3) #12-14 x 1 1/4", T-30 Torx Hd w/Washer
0097364SPR	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer

Planograph Schedule

Id	Details
T1	P-081180,P-081189,P-081505
T2	P-081180,P-081185
T3	P-081189,P-103223,P-103315,P-104714
T4	P-105224,P-105225,P-105228

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
PROFESSIONAL ENGINEER
05/01/2024

Shape Name = Alternate 3 ADDITION, Wall = 2

PERMIT SET- For Building Dept. Approval

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
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D

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#:

JOB #: 24-0077561
DATE: 5/19/2024
DRAWN/CHECKED: ETH JRM
PAGE: 21

Butler Manufacturing
VPC VERSION: 2.3.1
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VPC FILENAME: 24-0077561

5/1/2024 13:12:27

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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
05/01/2024

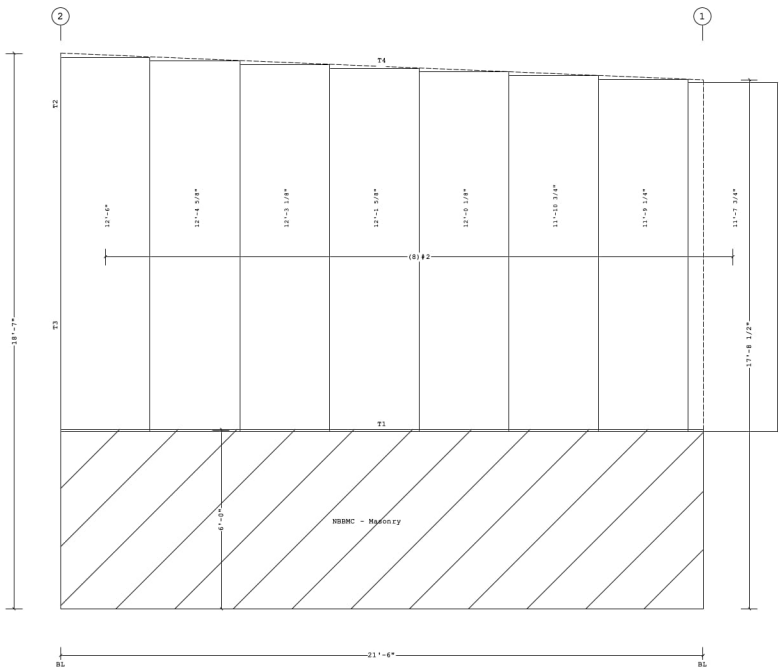
Covering Schedule

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Increment	Direction
#2	8	SHU	12'-6"	26	3	X	02	-1 7/16"	Left to Right

Oper. Code:3-SQ,SQ
Finish:X-Special Request
Color:02-LSMO PEWTER

Trim Schedule

Id	Parts	Color	Details
T1	(1.4)BG2415,(2)BT12A	Special Color 3	ENB006,GV386,GV443,NV115,NV120,NV128,NV130, NV135,NV143,NV664,WCB082,WCB083,WCB085, WCB086,WSR065
T2	(0.5)0620163,SHOCT12	Special Color 3	NV118,NV119,NV133,NV134
T3	(1.5)0620163,SHOCT12	Special Color 3	NV118,NV119,NV133,NV134
T4	(1.5)MRGT20R,(2)SHCL12,(2.5)WA10A	Special Color 3	KV403,KV404,PV167



COVERING ELEVATION AT WALL 3

Fastener Schedule

Part	Description
0097365SPR	(T-3) #12-14 x 1 1/4", T-30 Torx Hd w/Washer
0097364SPR	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer

Planograph Schedule

Id	Details
T1	P-081180,P-081189,P-081505
T2	P-081180,P-081185
T3	P-081180,P-081185
T4	P-081167,P-081183,P-GAI

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
REGISTERED PROFESSIONAL ENGINEER
05/01/24

Shape Name = Alternate 3 ADDITION, Wall = 3

PERMIT SET- For Building Dept. Approval

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
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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: 2.11

JOB #: 24-0077561-01
DATE: 5/19/2024
DRAWN/CHECKED: ETH JRM
PAGE: 22

a division of BlueScope Buildings North America, Inc.

VPC FILENAME: 24-0077561

5/1/2024 13:12:28

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
05/01/2024

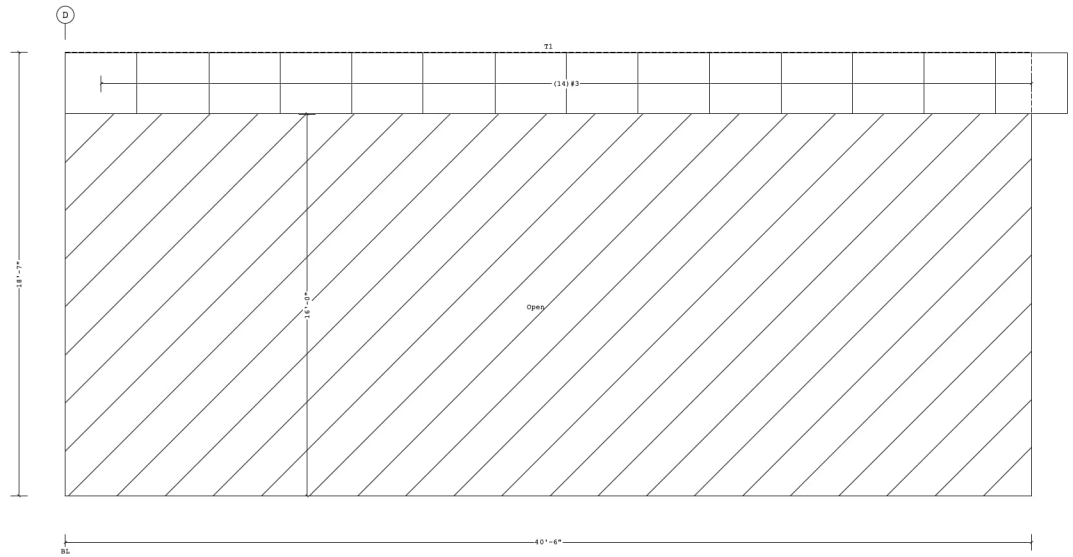
Covering Schedule

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Direction
#3	14	SHU	2'-6 5/8"	26	3	X	02	Left to Right

Oper. Code:3=SQ,SQ
Finish:X=Special Request
Color:02=LSMO PEWTER

Trim Schedule

Id	Parts	Color	Details
T1	(3.2)630598,(3.5)SHCL12,(2)0630393	Special Color 3	ENB004,NV110,NV667,RCB420



COVERING ELEVATION AT 2

Planograph Schedule

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

ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
PROFESSIONAL ENGINEER
STATE OF MISSOURI
05/01/2024

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
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Shape Name = Alternate 3 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 2

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

PERMIT SET- For Building Dept. Approval

JOB #: 24-007756-01
DATE: 5/19/2024
DRAWN/CHECKED: ETH JRM
PAGE: 23

Butler Manufacturing
VPC VERSION: 2.11
a division of BlueScope Buildings North America, Inc.

VPC FILENAME: 24-007756-01

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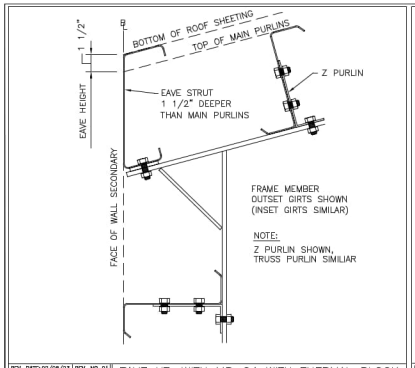
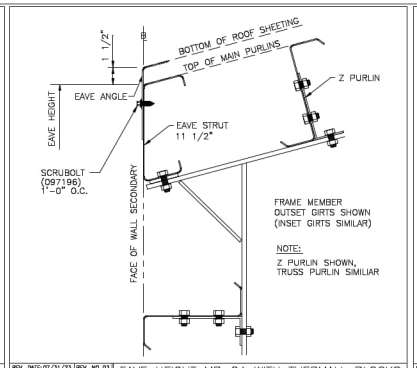
Lee's Summit, Missouri
05/01/2024



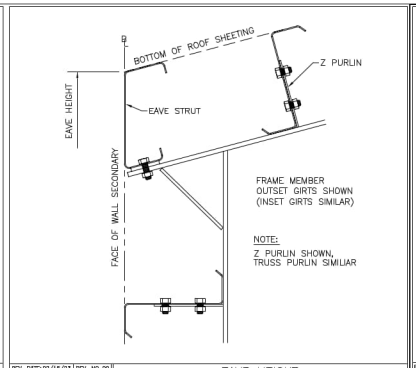
REV. DATE:02/08/22 | REV. NO. 01

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



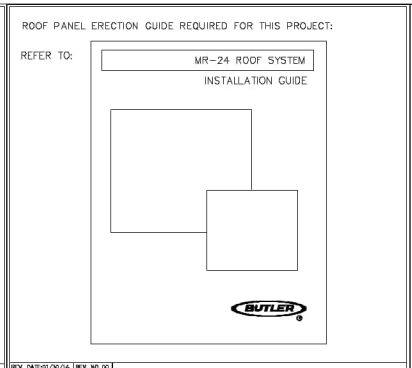
REV. DATE:07/31/23 | REV. NO. 03

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



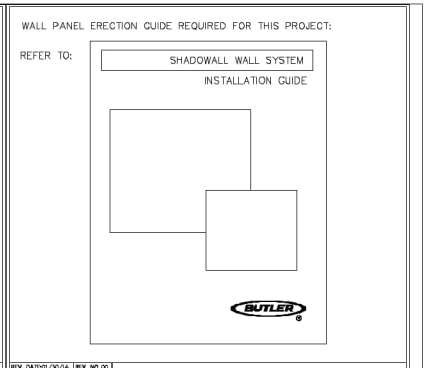
REV. DATE:02/15/23 | REV. NO. 00

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



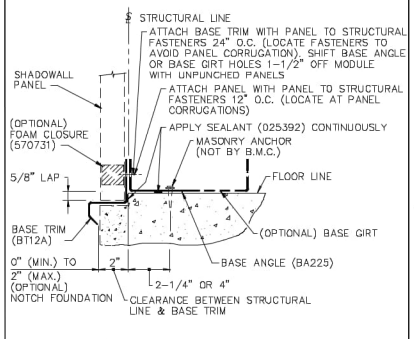
REV. DATE:01/30/14 | REV. NO. 00

EN8004 — MR-24 ROOF SYSTEM



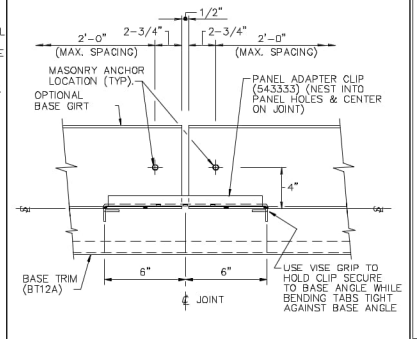
REV. DATE:07/30/14 | REV. NO. 00

EN8006 — SHADOWALL WALL SYSTEM



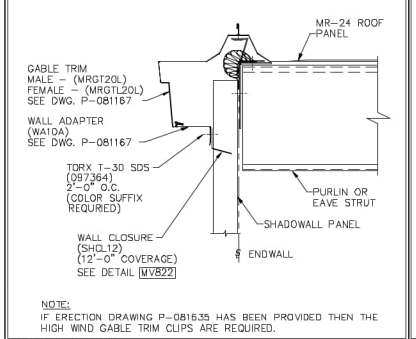
REV. DATE:07/14/10 | REV. NO. 00

GV386 — SHADOWALL – BASE TRIM INSTALLATION
LAPPED & NOTCHED FOUNDATION AT FLOOR LINE



REV. DATE:07/14/10 | REV. NO. 00

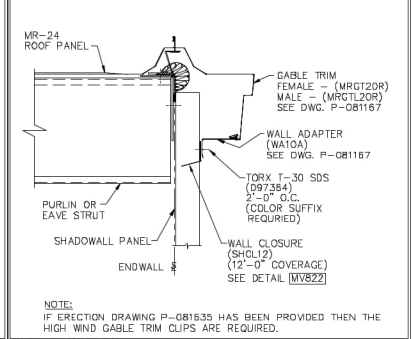
GV443 — OPTIONAL BASE CHANNEL
JOINT DETAIL – AT FLOOR LINE



NOTE:
IF ERECTION DRAWING P-081635 HAS BEEN PROVIDED THEN THE HIGH WIND GABLE TRIM CLIPS ARE REQUIRED.

REV. DATE:03/09/17 | REV. NO. 03

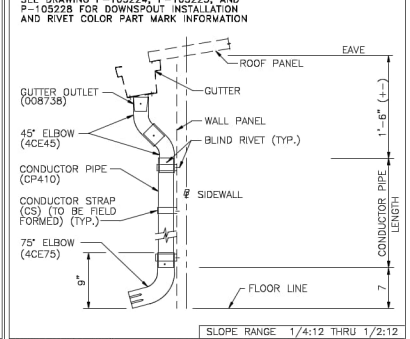
KV403 — GABLE TRIM LEFT WITH MR-24 ROOF
SHADOWALL WALL PANEL WITH CLOSURE



NOTE:
IF ERECTION DRAWING P-081635 HAS BEEN PROVIDED THEN THE HIGH WIND GABLE TRIM CLIPS ARE REQUIRED.

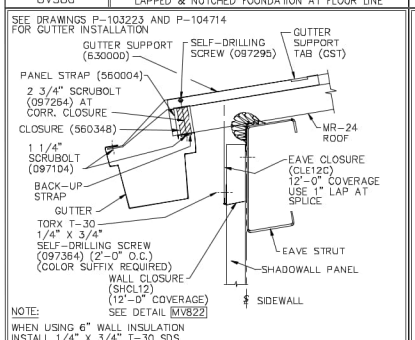
REV. DATE:03/09/17 | REV. NO. 03

KV404 — GABLE TRIM RIGHT WITH MR-24 ROOF
SHADOWALL WALL PANEL WITH CLOSURE



REV. DATE:01/23/14 | REV. NO. 02

KV846 — 4 INCH DOWNSPOUT AT WALL
BUTLERIB II AND SHADOWALL

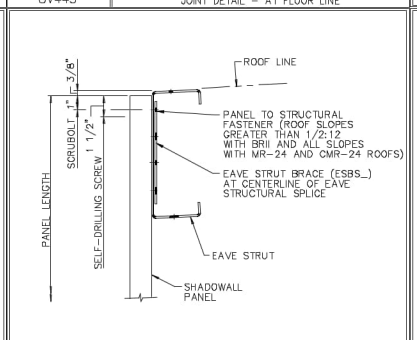


NOTE:
WHEN USING 6" WALL INSULATION INSTALL 1/4" X 3/4" T-30 SDS (097364) AT 1'-0" O.C. (COLOR SUFFIX REQUIRED)

SLOPE RANGE 1/4:12 – 4:12

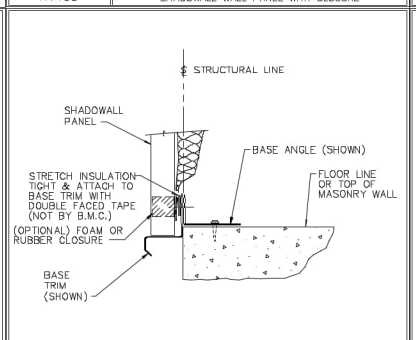
REV. DATE:01/28/17 | REV. NO. 02

MV252 — GUTTER WITH WTHR. SEAL WITH MR-24 ROOF
SHADOWALL WALL PANEL WITH WALL CLSR



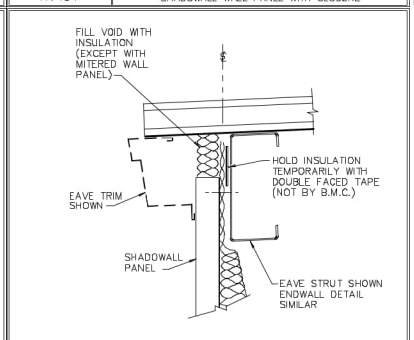
REV. DATE:07/30/15 | REV. NO. 01

NV110 — SIDEWALL PANEL TOP CONNECTION
AT FRAME EAVE STRUT SPLICE



REV. DATE:06/05/13 | REV. NO. 01

NV115 — 0"-4" INSULATION AT BASE – BASE TRIM
SHADOWALL WALL PANEL



REV. DATE:06/05/13 | REV. NO. 02

NV116 — 0"-4" INSULATION AT TOP OF WALL–WIDESPAN
SHADOWALL WALL PANEL

PERMIT SET- For Building Dept. Approval

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

COVERING & TRIM 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#:

JOB #: 24-007756-01
DATE: 4/19/2024
DRAWN/CHECKED: ETH / JRM
PAGE: 24

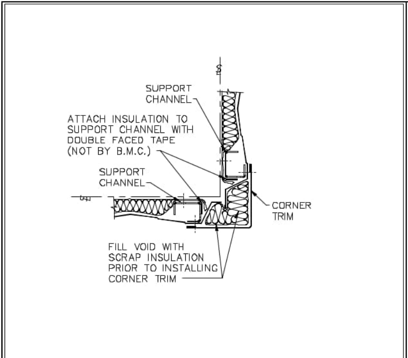
Butler Manufacturing
VPC VERSION: 4.11

VPC FILENAME: 24-007756-01

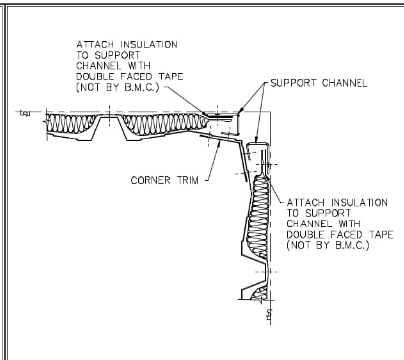
4/29/2024 SEDSheet 14:40:50

STATE OF MISSOURI
ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
PROFESSIONAL ENGINEER
05/03/24

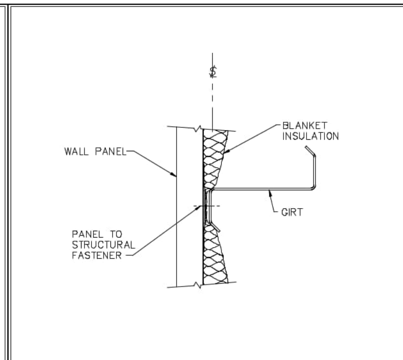
RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
05/03/2024



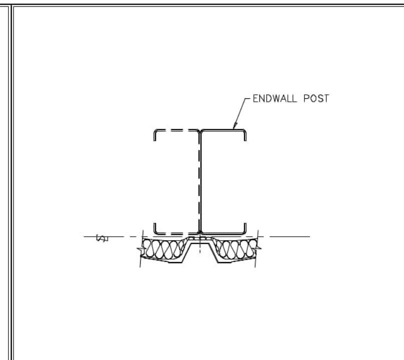
REV. DATE:09/05/13 REV. NO. 02 NV118 — 0"–4" INSULATION AT OUTSIDE CORNER, SHADOWALL WALL PANEL



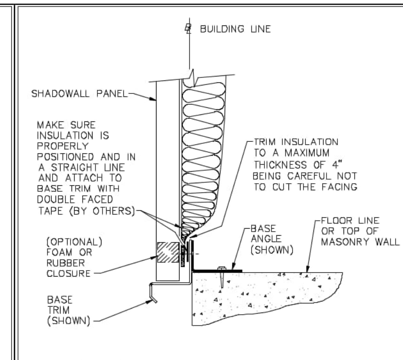
REV. DATE:09/05/13 REV. NO. 02 NV119 — 0"–4" INSULATION AT INSIDE CORNER, SHADOWALL WALL PANEL



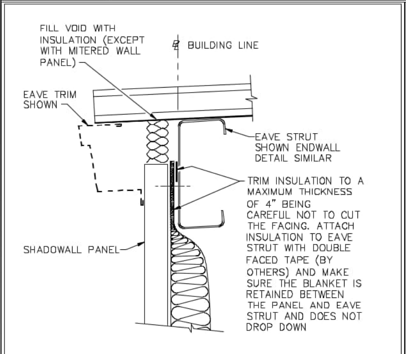
REV. DATE:09/05/13 REV. NO. 02 NV120 — 0"–4" INSULATION AT WALL STRUCTURAL, SHADOWALL WALL PANEL



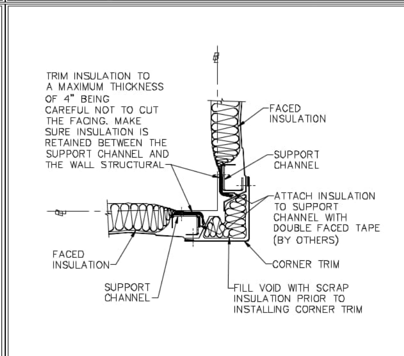
REV. DATE:09/05/13 REV. NO. 02 NV128 — 0"–4" INSUL. AT EW POST ON STRUCT. LINE, SHADOWALL WALL PANEL – WIDESPAN



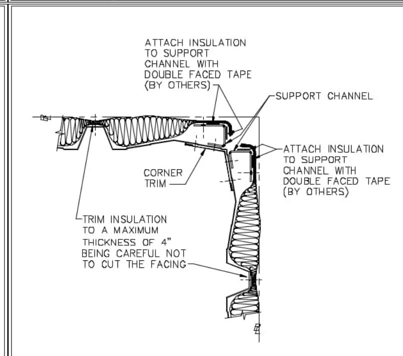
REV. DATE:10/18/17 REV. NO. 03 NV130 — 4 1/2"–8" INSULATION AT BASE – BASE TRIM, SHADOWALL WALL PANEL



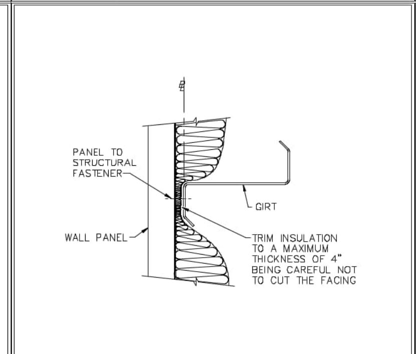
REV. DATE:10/18/17 REV. NO. 03 NV131 — 4 1/2"–8" INSUL. AT TOP OF WALL–WIDESPAN, SHADOWALL WALL PANEL



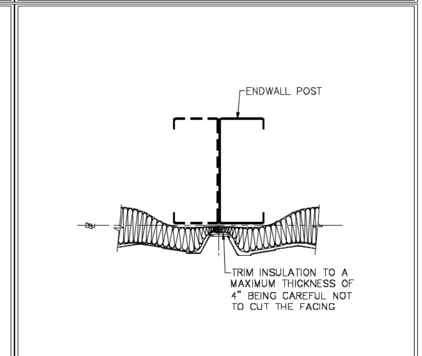
REV. DATE:10/18/17 REV. NO. 03 NV133 — 4 1/2"–8" INSULATION AT OUTSIDE CORNER, SHADOWALL WALL PANEL



REV. DATE:10/18/17 REV. NO. 03 NV134 — 4 1/2"–8" INSULATION AT INSIDE CORNER, SHADOWALL WALL PANEL



REV. DATE:10/18/17 REV. NO. 03 NV135 — 4 1/2"–8" INSULATION AT WALL STRUCTURAL, SHADOWALL WALL PANEL

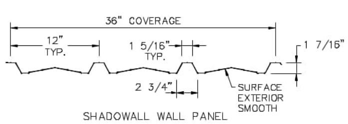


REV. DATE:10/18/17 REV. NO. 03 NV143 — 4 1/2"–8" INS. AT EW POST ON BLDG. LINE, SHADOWALL WALL PANEL – WIDESPAN

F = FEET
I = INCHES
E = EIGHTHS

G = GAGE
OO = OPERATION
C = FIN/COLOR

SHADOWALL WALL PANEL MARK NO.: SHP/SHU F F I I E G G O O C C C — LENGTH CODE

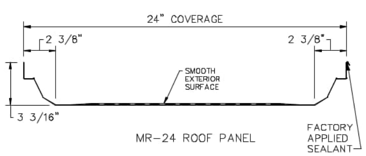


REV. DATE:01/14/10 REV. NO. 00 NV664 — SHADOWALL WALL PANELS

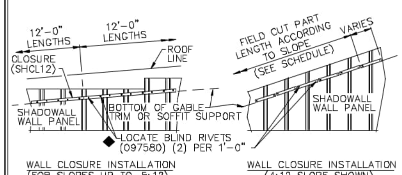
F = FEET
I = INCHES
E = EIGHTHS

G = GAGE
OO = OPERATION
C = FIN/COLOR

MR-24 ROOF PANEL MARK NO.: MR24 F F I I E G G OO C C C — LENGTH CODE



REV. DATE:01/14/10 REV. NO. 00 NV667 — MR-24 STANDING SEAM ROOF PANEL



NOTE:
AS ROOF SLOPE INCREASES OR DECREASES BEYOND CLOSURES SPECIFIED FITUP, IT MUST BE CUT TO LENGTH INDICATED, TO ACCOMMODATE SLOPE DIMENSION VARIANCE. MINOR NIPPING OF THE FLASHING "FINGERS" MAY BE REQUIRED TO AVOID INTERFERENCE FOR PROPER FITUP.

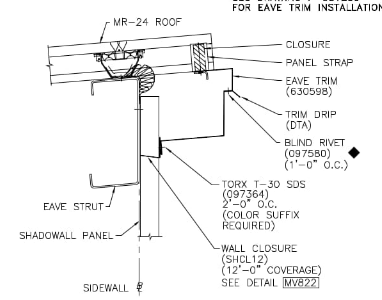
SHADOWALL – ENDWALL CLOSURE SCHEDULE
ROOF SLOPE (RISE IN 12")

.25–.5	.51–.749	.75–1.49	1.5–4
SHCL12 (12'-0") USE AS IS	SHCL12 (12'-0") CUT TO 6'-0" LENGTH	SHCL12 (12'-0") CUT TO 3'-0" LENGTH	SHCL12 (12'-0") CUT TO 1'-0" LENGTH

◆ SEE DRAWING P-081764 FOR BLIND RIVET COLOR INFORMATION

REV. DATE:07/10/17 REV. NO. 02 PV167 — SHADOWALL WALL PANEL, ENDWALL CLOSURE SCHEDULE

SEE DRAWING P-081239 FOR EAVE TRIM INSTALLATION



◆ SEE DRAWING P-081764 FOR BLIND RIVET COLOR INFORMATION

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

REV. DATE:10/01/18 REV. NO. 03 RCB420 — HIGH SIDE EAVE TRIM WITH MR-24 ROOF, SHADOWALL WALL PANEL WITH WALL CLSR

PERMIT SET- For Building Dept. Approval

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:

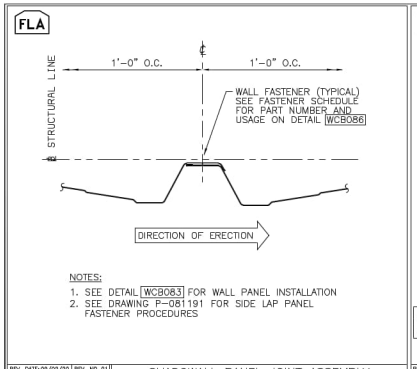
DRAWING SCALE: NTS

COVERING & TRIM SED'S (b)

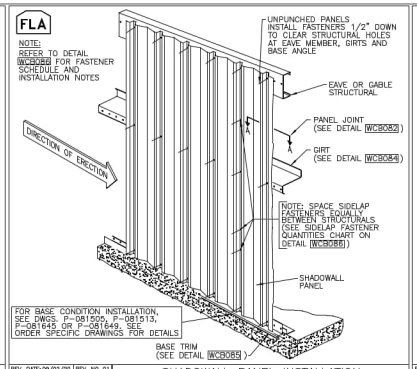
BUILDER:	MAR Building Solutions
CUSTOMER:	
LOCATION:	Lees Summit, Missouri
PROJECT:	LSMO Water Utilites
BUILDER'S PO#:	

JOB #: 24-007756-01
DATE: 4/19/2024
DRAWN/CHECKED: ETH JRP
PAGE: 25
VPC VERSION: 2021.1

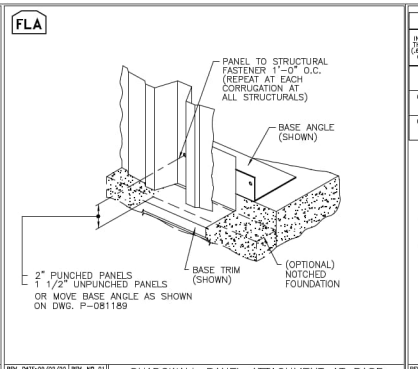
Butler Manufacturing — a division of BlueScope Buildings North America, Inc.



REV. DATE: 09/02/20	REV. NO. 01	WCB082	SHADOWALL PANEL JOINT ASSEMBLY SECTION A-A



REV. DATE: 09/02/20	REV. NO. 01	WCB083	SHADOWALL PANEL INSTALLATION PANEL TO STRUCTURAL



REV. DATE: 09/02/20	REV. NO. 01	WCB085	SHADOWALL PANEL ATTACHMENT AT BASE LAP FOUNDATION SHOWN

FASTENER SCHEDULE

INSULATION THICKNESS (4.5 #/CU.FT. OR LESS)	PANEL-TO-STRUCTURAL FASTENERS		PANEL-TO-PANEL FASTENERS
	PAINTED SCRUBOLTS (PUNCHED OR UNPUNCHED PANELS)	PAINTED SELF-DRILLING SCREWS (UNPUNCHED PANELS ONLY)	PAINTED SELF-DRILLING SCREWS (PUNCHED OR UNPUNCHED PANELS)
0" THRU 4"	SB – 7/8" T-45 TORX SCRUBOLT 097361	MPS – 1 1/4" T-30 TORX MEDIUM SELF-DRILLING SCREW 097365	SDS – 3/4" T-30 TORX SHORT SELF-DRILLING SCREW 097364
OVER 4" THRU 6"	LSB – 1 1/2" T-45 TORX LONG SCRUBOLT 097362	MPS – 1 1/4" T-30 TORX MEDIUM SELF-DRILLING SCREW 097365	SDS – 3/4" T-30 TORX SHORT SELF-DRILLING SCREW 097364
OVER 6" THRU 8"	LSB – 1 1/2" T-45 TORX LONG SCRUBOLT 097362	NOT RECOMMENDED	SDS – 3/4" T-30 TORX SHORT SELF-DRILLING SCREW 097364

SIDELAP FASTENER QUANTITIES

DISTANCE BETWEEN WALL STRUCTURALS	FASTENER QUANTITY BETWEEN STRUCTURALS
3'-0" OR LESS	0
OVER 3'-0" THRU 6'-0"	1
OVER 6'-0"	2

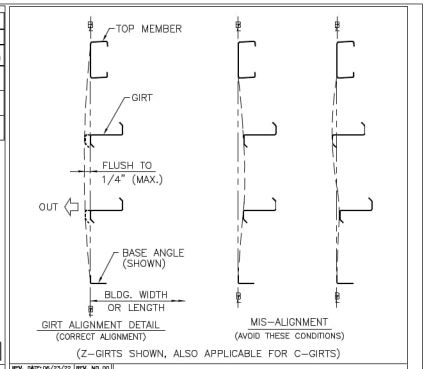
IMPORTANT:
MAXIMUM SPACING BETWEEN SIDELAP FASTENERS IS 3'-0".

FASTENER NOTES:
1. HEADS OF FASTENERS ARE PAINTED TO MATCH WALL PANEL COLOR. THE FASTENER PART NUMBERS SHOWN IN THE FASTENER SCHEDULE WILL BE FOLLOWED BY A THREE DIGIT COLOR SUFFIX CODE.
2. PANEL-TO-STRUCTURAL FASTENERS ARE INSTALLED ON 1'-0" CENTERS AT EACH PANEL CORRUGATION. PANEL-TO-PANEL FASTENERS ARE INSTALLED AT EACH PANEL JOINT AND SPACED EVENLY BETWEEN STRUCTURALS AS SHOWN IN SIDELAP FASTENER QUANTITIES CHART.

INSTALLATION NOTES:
1. SHADOWALL PANELS ARE AVAILABLE WITH OR WITHOUT PUNCHING. REFER TO PANEL IDENTIFICATION FOR PART NUMBER AND PANEL USAGE.
2. WHEN USING UNPUNCHED PANELS, CHECK MODULARITY ON EVERY PANEL TO ASSURE PROPER COVERAGE AND FIT UP OF TRIM AT ACCESSORIES.
3. FOR CORRECT INSTALLATION OF SELF-DRILLING SCREWS FOR UNPUNCHED PANELS, A VARIABLE SPEED SCREW GUN WITH CAPABILITY OF 1600 TO 2500 RPM IS RECOMMENDED. (SEE DRAWING P-081189).
4. REFERENCE SHADOWALL INDEX P-081180 FOR APPROPRIATE INSTALLATION DRAWINGS.
5. REFER TO APPROPRIATE INSULATION INSTALLATION DETAILS ON ORDER SPECIFIC DRAWINGS TO PREVENT UNSIGHTLY BILLOWING ON EXTERIOR SURFACE OF WALL PANELS.

FLA

REV. DATE: 09/02/20	REV. NO. 01	WCB086	SHADOWALL PANEL GENERAL NOTES FASTENER AND INSTALLATION



REV. DATE: 06/23/22	REV. NO. 00	WSR065	WALL SECONDARY FRAMING ALIGNMENT

ALAN MICHAEL JUNGNITSCH
NUMBER PE-2010029666
PROFESSIONAL ENGINEER
STATE OF MISSOURI
05/01/24

PERMIT SET- For Building Dept. Approval

D

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

COVERING & TRIM SED'S (c)

REV.	DATE:	BY:	DESCRIPTION:

DRAWING SCALE: NTS

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

JOB #: 24-007756-01
DATE: 4/19/2024
DRAWN/CHECKED: ETH / JRM
PAGE: 28

Butler Manufacturing
VPC VERSION: 2.11
a division of BlueScope Buildings North America, Inc.

VPC FILENAME: 24-007756-01
4/29/2024 SEDSheet 14:40:53

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
05/01/2024