



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

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DRAWING RELEASE HISTORY		
TYPE	DATE	DESCRIPTION
Anchor Rod Drawings	02/09/2018	FOR CONSTRUCTION
Permit Drawings	02/09/2018	PERMIT SET- For Building Dept. Approval

GENERAL NOTES

MATERIALS

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

ASTM DESIGNATION

A529, A572, A1011, A1018
A553, A1011
A572, A510
A36, A529, A572, A588, A992
A529, A572, A588, A992
A500
A653, A792

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

HIGH STRENGTH BOLT TIGHTENING REQUIREMENTS

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

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

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

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

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

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

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

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

INSPECTION AND TESTING

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



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.

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.

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.

B

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

COVER SHEET

BUILDER	Construction Systems Inc	<p>Butler Manufacturing VPC VERSION 2017.2c</p>	JOB #	17-027944-01
CUSTOMER	Group Springs Baptist Church		DATE	02/09/2018
LOCATION	Spring Lake, North Carolina		DRAWN/CHECKED	JG / SI
PROJECT	Gourd Springs		PAGE	1
BUILDERS PO#	33-641-001			

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: Spring Lake County: Cumberland State: North Carolina Country: United States

Building Code

Building Code: North Carolina State Building Code - 2012 Edition Structural: 05AISC - ASD Rainfall: I: 8.00 inches per hour
 Based on Building Code: 2009 International Building Code Cold Form: 07AISI - ASD f'c: 3000.00 psi Concrete
 Building Risk/Occupancy Category: II (Standard Occupancy Structure)

Dead and Collateral Loads

Collateral Gravity: 5.00 psf Material Dead Weight
 Collateral Uplift: 0.00 psf Roof Covering + Second. Dead Load: Varies
 Frame Weight (assumed for seismic): 2.50 psf

Roof Live Load

Roof Live Load: 20.00 psf Reducible

Wind Load

Wind Speed: 98.00 mph
 The 'Envelope Procedure' is Used
 Wind Exposure: B - Kz: 0.701
 Parts Wind Exposure Factor: 0.701
 Wind Enclosure: Enclosed
 Wind Importance Factor: Iw: 1.000
 Topographic Factor: Kzt: 1.0000

Snow Load

Ground Snow Load: pg: 10.00 psf
 Flat Roof Snow: pf: 6.30 psf
 Design Snow (Sloped): ps: 5.42 psf
 Rain Surcharge: 0.00
 Exposure Factor: 1 Fully Exposed - Ce: 0.90
 Snow Importance: Is: 1.000
 Thermal Factor: Heated - Ct: 1.00
 Ground / Roof Conversion: 0.70
 Unobstructed, Slippery

Seismic Load

Lateral Force Resisting Systems using Equivalent Force Procedure
 Mapped MCE Acceleration: Ss: 29.70 %g
 Mapped MCE Acceleration: S1: 10.10 %g
 Site Class: Stiff soil (D)
 Seismic Importance: Ie: 1.000
 Design Acceleration Parameter: Sds: 0.3094
 Design Acceleration Parameter: Sd1: 0.1616
 Seismic Design Category: C
 Seismic Snow Load: 0.00 psf
 % Snow Used in Seismic: 0.00
 Diaphragm Condition: Flexible
 Fundamental Period Height Used: 21/2/15

NOT Windborne Debris Region

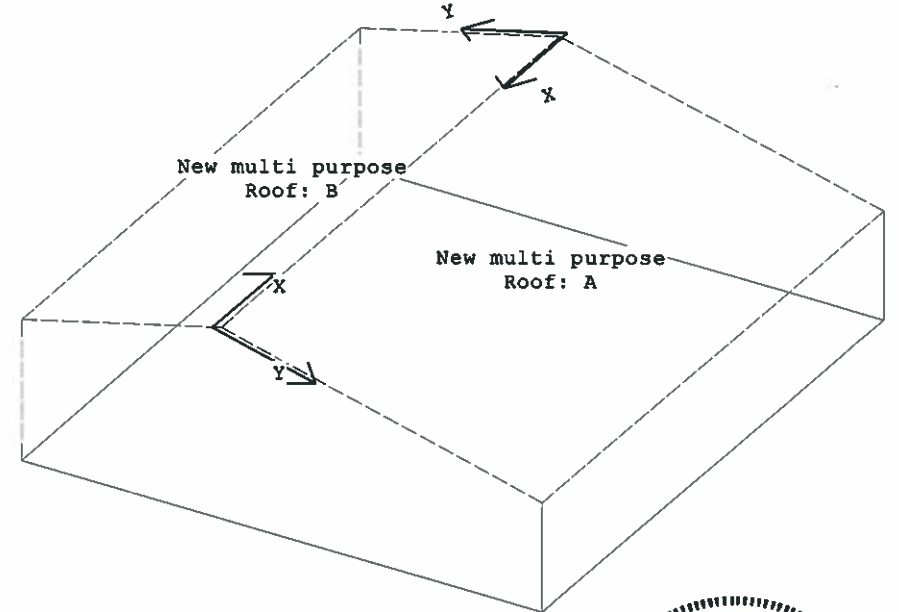
Base Elevation: 0/0/0
 Primary Zone Strip Width: 2a: 17/9/10
 Parts / Portions Zone Strip Width: a: 8/10/13
 Basic Wind Pressure: q: 14.64 psf

Transverse Direction Parameters

System NOT detailed for Seismic
 Redundancy Factor: Rho: 1.00
 Fundamental Period: Ta: 0.3228
 R-Factor: 3.00
 Overstrength Factor: Omega: 2.50
 Deflection Amplification Factor: Cd: 3.00
 Base Shear: V: 0.1031 x W

Longitudinal Direction Parameters

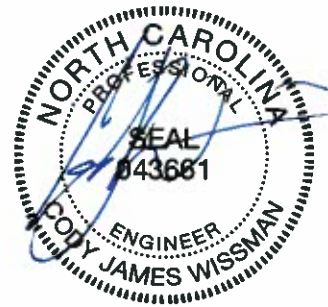
System NOT detailed for Seismic
 Redundancy Factor: Rho: 1.00
 Fundamental Period: Ta: 0.1979
 R-Factor: 3.00
 Overstrength Factor: Omega: 2.50
 Deflection Amplification Factor: Cd: 3.00
 Base Shear: V: 0.1031 x W



Snow Buildup

Shape	Surface	Description	X Location	Y Location	Magnitude
New multi purpose	Roof: A	Unbalanced Snow Load 1, Shifted Left : Roof: A	0.0 ft	7.7 ft	11.1 psf
			0.0 ft	0.0 ft	11.1 psf
			100.0 ft	0.0 ft	11.1 psf
			100.0 ft	7.7 ft	11.1 psf
New multi purpose	Roof: B	Unbalanced Snow Load 1, Shifted Right : Roof: B	0.0 ft	10.4 ft	15.0 psf
			0.0 ft	0.0 ft	15.0 psf
			100.0 ft	0.0 ft	15.0 psf
			100.0 ft	10.4 ft	15.0 psf

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



02/12/2018

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				BUILDER: Construction Systems Inc CUSTOMER: Group Springs Baptist Church LOCATION: Spring Lake, North Carolina PROJECT: Gourd Springs BUILDERS PO#: 33-641-001	JOB #: 17-027944-01 DATE: 02/09/2018 DRAWN/CHECK: JG / SI BUTLER Butler Manufacturing VPC VERSION 2017.2c PAGE 2

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.

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 RTUs, 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 sealed 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/Metal_Building_Systems/MB.html)
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 288; State of Utah, City of Richmond, Ca.

Design Approvals

IAS AC472 Approvals: (www.iasonline.org/Metal_Building_Systems/MB.html)
Listed under Butler Manufacturing, a Division of BlueScope Buildings North America, Inc.

Canadian CSA A660 Certifications

(<http://eng.cwbgroup.org/Certification/Pages/CertifiedCompanySearch.aspx>)
Listed under BlueScope Buildings North America, Inc.

Engineering Certifications of Authorization

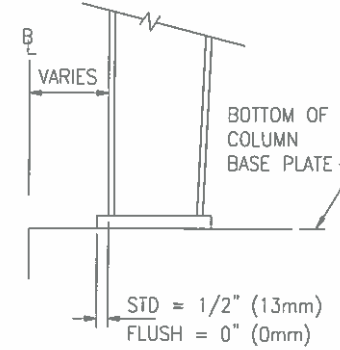
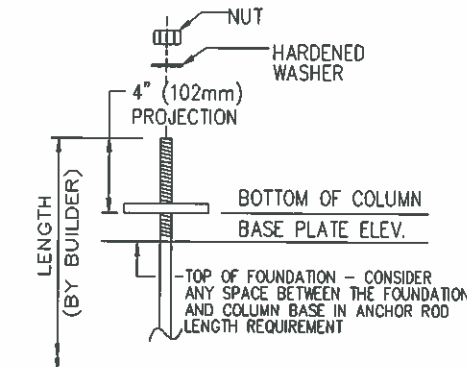
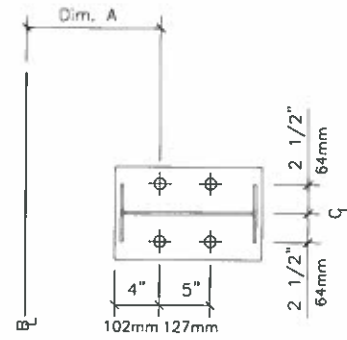
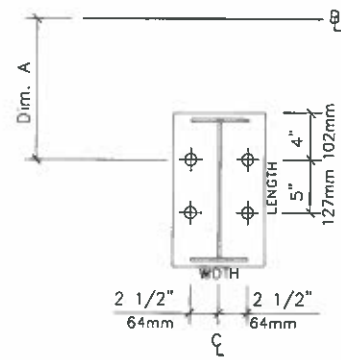
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MO#E-2010007736; NC#F-0998; OK#CA4170PE; SD#C-1787; TX#F4828; WV#C03059-00;
CAN-AB#P08900; NS#F30123; ON#100148796; and YT#PP134



02/12/2018

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D1 (4) 3/4" Dia. GR36 Anchor Rods
 Plate W=8" L=1'-1"
 Dim: A=1'-0"
 Elev.=100'-0"

D2 (4) 3/4" Dia. GR36 Anchor Rods
 Plate W=8" L=1'-1"
 Dim: A=1'-0"
 Elev.=100'-0"

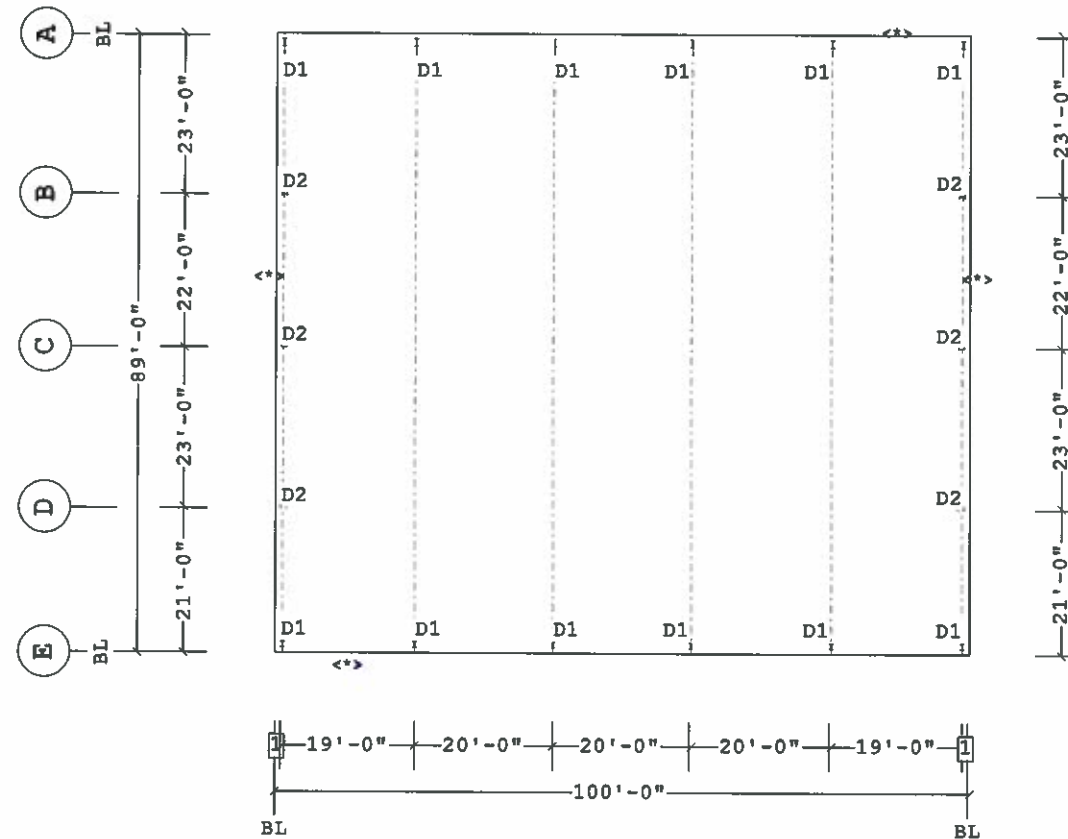
THE 4" PROJECTION ABOVE THE BOTTOM OF THE BASE PLATE IS A SUGGESTED MINIMUM TO ENSURE ADEQUATE ANCHOR ROD LENGTH. A DIFFERENT PROJECTION MAY BE REQUIRED BY THE FOUNDATION DESIGNER.

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 (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; $\pm 1/8"$
 - b. CENTERS OF ADJACENT AR GROUPS; $\pm 1/4"$
 - c. TOPS OF AR'S; $\pm 1/2"$
 - d. ACCUMULATED DIM BETWEEN CENTERS OF AR GROUPS ALONG COLUMN LINE; $\pm 1/4"$ PER 100FT., NOT TO EXCEED 1" TOTAL.
 - e. DIM FROM CENTER OF ANY AR GROUP FROM COLUMN LINE; $\pm 1/4"$
5. DESIGN LOADS AND REACTIONS ARE FURNISHED IN THE REACTIONS REPORT.



ANCHOR ROD PLAN

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

FOR CONSTRUCTION

1 1'-0"
 Dimension Key

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

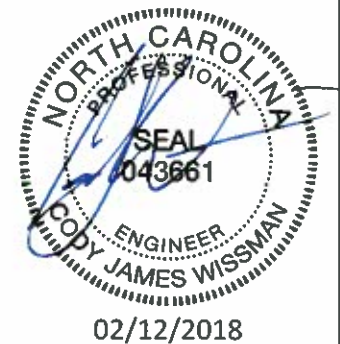
THE BUTLER MFG. ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF BUTLER MFG. AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY BUTLER. THE BUTLER MFG. ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY BUTLER EXCEPT TO ANY DESIGN OR PERFORMANCE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

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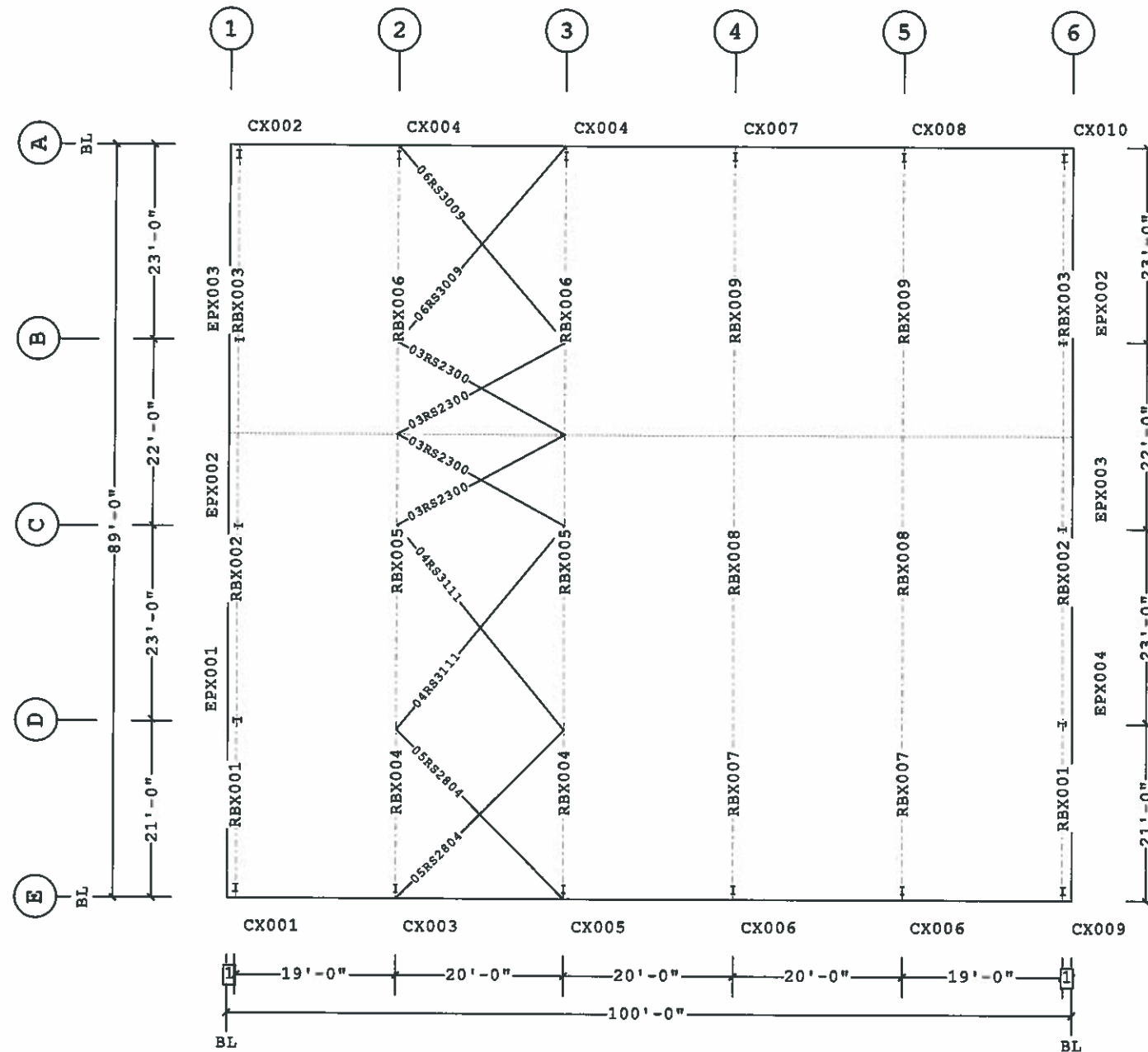
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B BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			
REV	DATE	BY	DESCRIPTION
DRAWING SCALE: NTS			

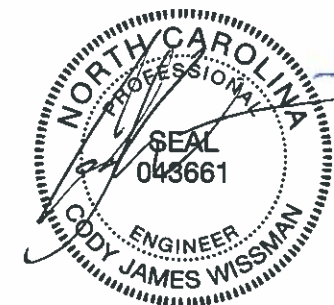
ANCHOR ROD PLAN		BUTLER Butler Manufacturing VPC VERSION 2017.2c	JOB # 17-027944-01
BUILDER:	Construction Systems Inc		DATE 02/09/2018
CUSTOMER:	Group Springs Baptist Church		DRAWN/CHECK JG / SI
LOCATION:	Spring Lake, North Carolina		PAGE 4
PROJECT:	Gourd Springs	BUILDERS PO#:	33-641-001



Bracing Part Schedule			
Part	Qty	Length	Detail
03RS2300	4	23'-0"	BR01G2
04RS3111	2	31'-11"	BR01G2
05RS2804	2	28'-4"	BR01G2
06RS3009	2	30'-9"	BR01G2



PRIMARY AND ROOF BRACING PLAN



02/12/2018

PERMIT SET- For Building Dept. Approval

1 1'-0"
 Dimension Key

Shape Name = New multi purpose

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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B BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102				PRIMARY AND ROOF BRACING PLAN	
REV	DATE	BY	DESCRIPTION	BUILDER	CONSTRUCTION SYSTEMS INC
				CUSTOMER	Group Springs Baptist Church
				LOCATION	Spring Lake, North Carolina
				PROJECT	Gourd Springs
				BUILDERS PO#	33-641-001
DRAWING SCALE: NTS				BUTLER Butler Manufacturing VPC VERSION 2017.2c	
				JOB #	17-027944-01
				DATE	02/09/2018
				DRAWN/CHECKED	JG / SI
				PAGE	5

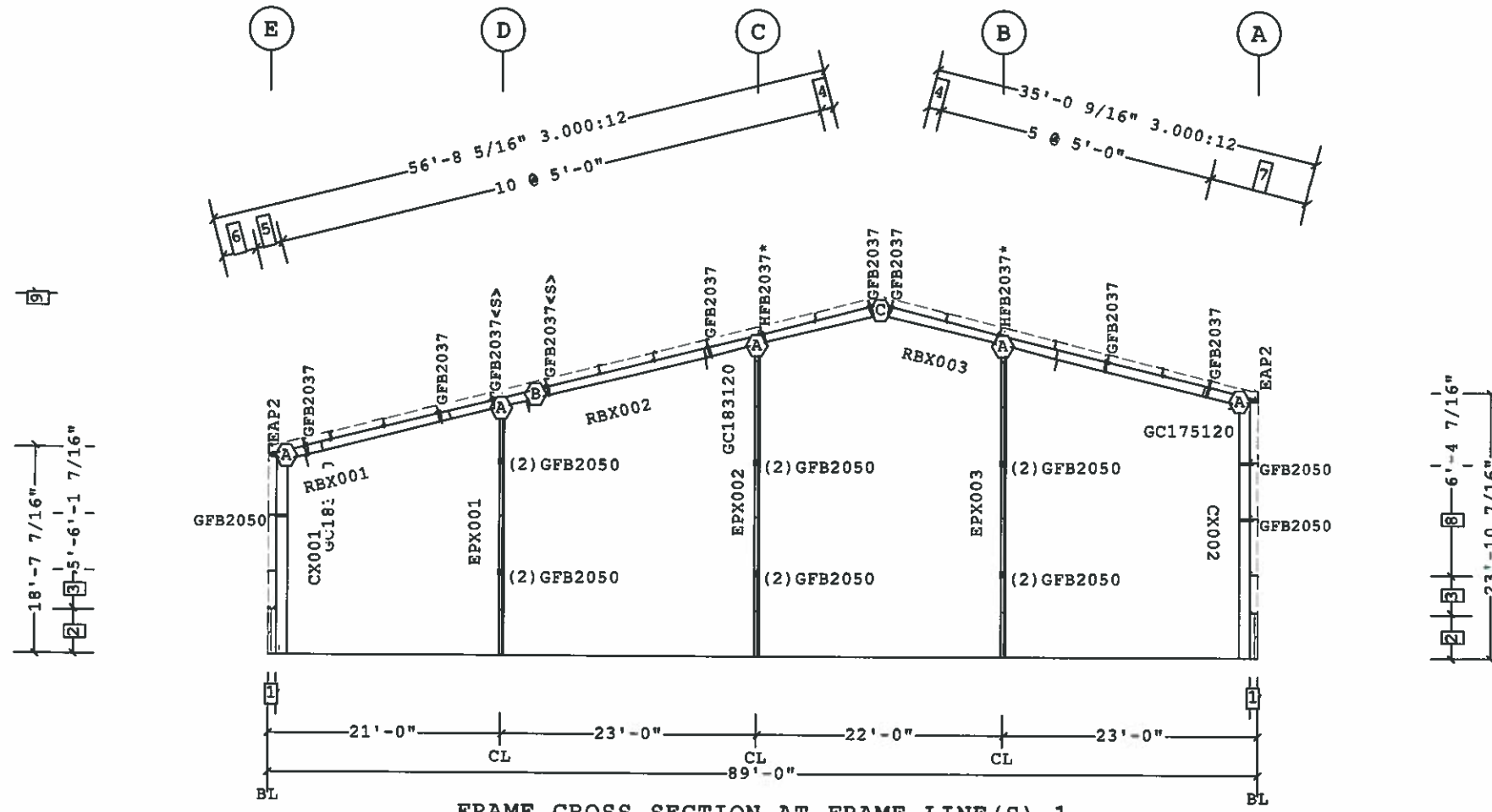
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Detail
CX001	1	5.0000	.1345	.1345	1'-0"	1'-0"	18'-3 1/8"	210#	
RBX001	2	5.0000	.1345	.1345	10"	10"	23'-1 13/16"	231#	
	3	5.0000	.1345	.1345	10"	10"			
	4	5.0000	.1345	.1345	10"	10"			
	5	5.0000	.1345	.1345	10"	10"			
RBX002	6	5.0000	.1345	.1345	10"	10"	31'-11 5/8"	305#	
	7	5.0000	.1345	.1345	10"	10"			
	8	5.0000	.1345	.1345	10"	10"			
RBX003	9	5.0000	.1345	.1644	10"	10"	33'-5 5/8"	358#	
	10	5.0000	.1345	.1644	10"	10"			
	11	5.0000	.1345	.1644	10"	10"			
	12	5.0000	.1345	.1644	10"	10"			
CX002	13	5.0000	.1345	.1345	1'-0"	1'-0"	23'-6 1/8"	263#	
EPX001	14	5.0000	.1875	.1345	1'-0"	1'-0"	22'-4"	166#	BR25CA
EPX002	15	5.0000	.2500	.1345	1'-0"	1'-0"	28'-1"	265#	BR25A3
EPX003	16	5.0000	.2500	.1345	1'-0"	1'-0"	28'-1"	265#	BR25A3

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
B	4	A325	1/2"	1 1/2"	1/4"	1	1	49080
C	6	A325	1/2"	1 1/2"	1/4"	1	2	49080

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

Frame Clearances
 Horiz. Clearance between members 1(CX001) and 13(CX002): 85'-6 3/4"
 Vert. Clearance at member 1(CX001): 17'-5"
 Vert. Clearance at member 13(CX002): 22'-8"
 Vert. Clearance at member 14(EPX001): 22'-3 3/8"
 Vert. Clearance at member 15(EPX002): 28'-0 3/8"
 Vert. Clearance at member 16(EPX003): 28'-0 3/8"
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S) 1

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

- 9 32'-4 7/16" Ridge Ht.
- 8 2 @ 5'-0"
- 7 2 @ 4'-5 3/8"
- 6 3'-1 5/16"
- 5 2'-5 1/4"
- 4 1'-1 3/4"
- 3 3'-5 3/4"
- 2 4'-0 1/4"
- 1 8 1/2"

Dimension Key



02/12/2018

PERMIT SET- For Building Dept. Approval

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

FRAME CROSS SECTION AT FRAME LINE(S) 1			
BUILDER	Construction Systems Inc	CUSTOMER	Group Springs Baptist Church
LOCATION	Spring Lake, North Carolina	PROJECT	Gourd Springs
BUILDERS PO#	33-641-001	BUTLER MFG. VPC VERSION	2017.2c
JOB #	17-027944-01	DATE	02/09/2018
DRAWN/CHECKED	JG / SI	PAGE	6

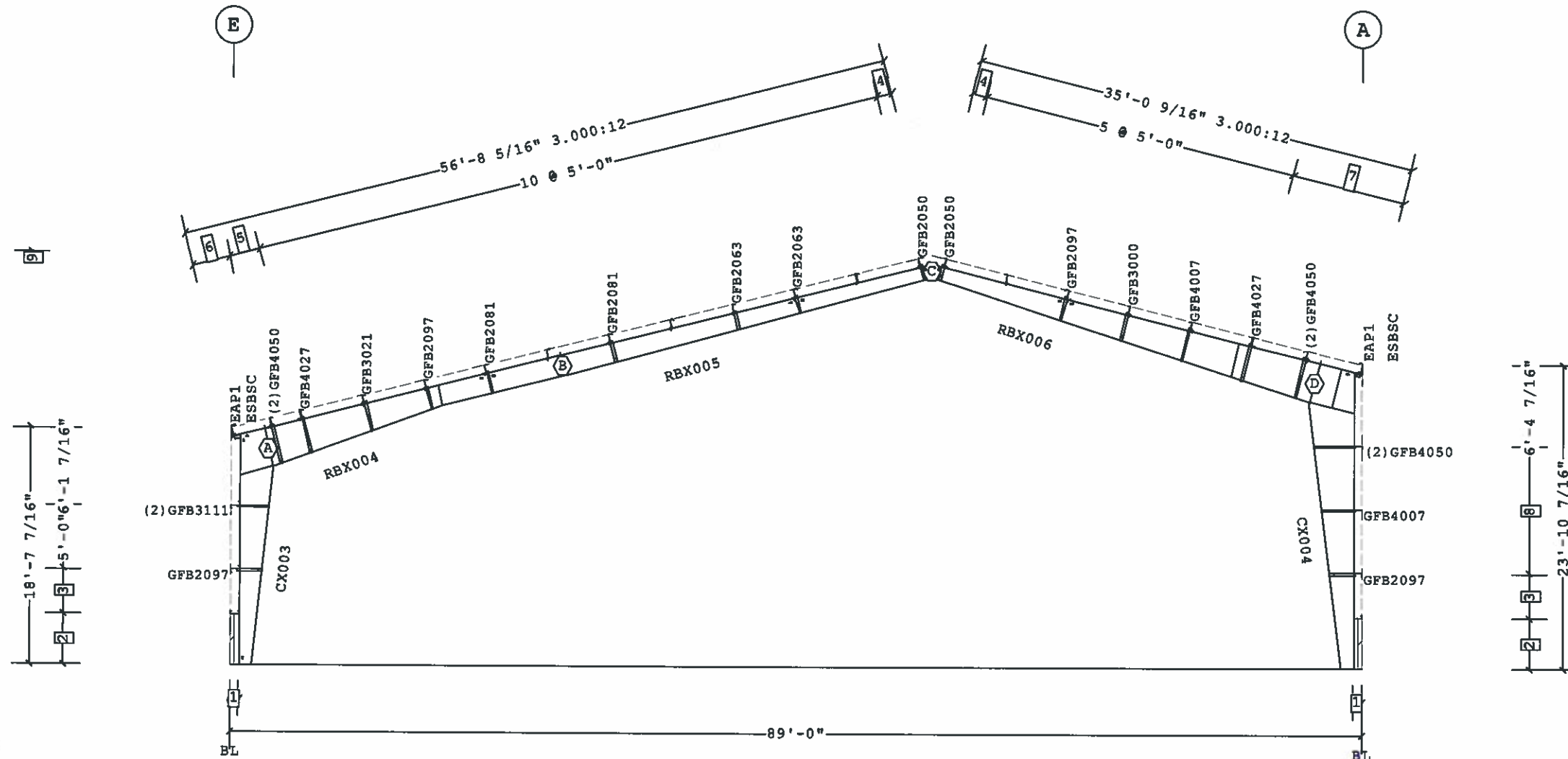
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX003	1	5.0000	.3125	.1875	1'-0"	2'-8"	18'-6 7/16"	530#
RBX004	2	5.0000	.2500	.1875	3'-1"	1'-7"	24'-0"	567#
	3	5.0000	.1875	.1345	1'-7"	1'-7"		
RBX005	4	5.0000	.3125	.1345	1'-7"	1'-0"	29'-11 9/16"	551#
RBX006	5	5.0000	.2500	.1875	1'-0"	2'-9"	31'-6 13/16"	846#
	6	5.0000	.3750	.1875	2'-9"	3'-2"		
CX004	7	5.0000	.3125	.1875	1'-0"	3'-5"	23'-11 5/8"	799#

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"	2	2	0097284
B	8	A325	3/4"	2 1/2"	3/8"	2	2	0097284
C	6	A325	3/4"	2 1/2"	3/8"	1	2	0097284
D	12	A325	3/4"	2 1/2"	1/2"	4	2	0097284

Frame Clearances

Horiz. Clearance between members 1(CX003) and 7(CX004): 81'-5 3/16"
 Vert. Clearance at member 1(CX003): 15'-6 3/16"
 Vert. Clearance at member 7(CX004): 20'-8 1/16"
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



- 9 32'-4 7/16" Ridge Ht.
- 8 2 @ 5'-0"
- 7 2 @ 4'-5 3/8"
- 6 3'-1 5/16"
- 5 2'-5 1/4"
- 4 1'-1 3/4"
- 3 3'-5 3/4"
- 2 4'-0 1/4"
- 1 8 1/2"

Dimension Key

FRAME CROSS SECTION AT FRAME LINE(S) 2



02/12/2018

PERMIT SET- For Building Dept. Approval

Shape Name = New multi purpose Wall 4, Frame 2

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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B		BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102	
REV	DATE	BY	DESCRIPTION
DRAWING SCALE: NTS			

FRAME CROSS SECTION AT FRAME LINE(S) 2		BUTLER	
BUILDER:	Construction Systems Inc	CUSTOMER:	Group Springs Baptist Church
LOCATION:	Spring Lake, North Carolina	PROJECT:	Gourd Springs
BUILDERS PO#:	33-641-001	BUTLER VERSION:	2017.2c
JOB #:	17-027944-01	DATE:	02/09/2018
DRAWN/CHECK:	JG	SCALE:	SI
PAGE:	7	Butler Manufacturing a division of BlueScope Buildings North America, Inc.	

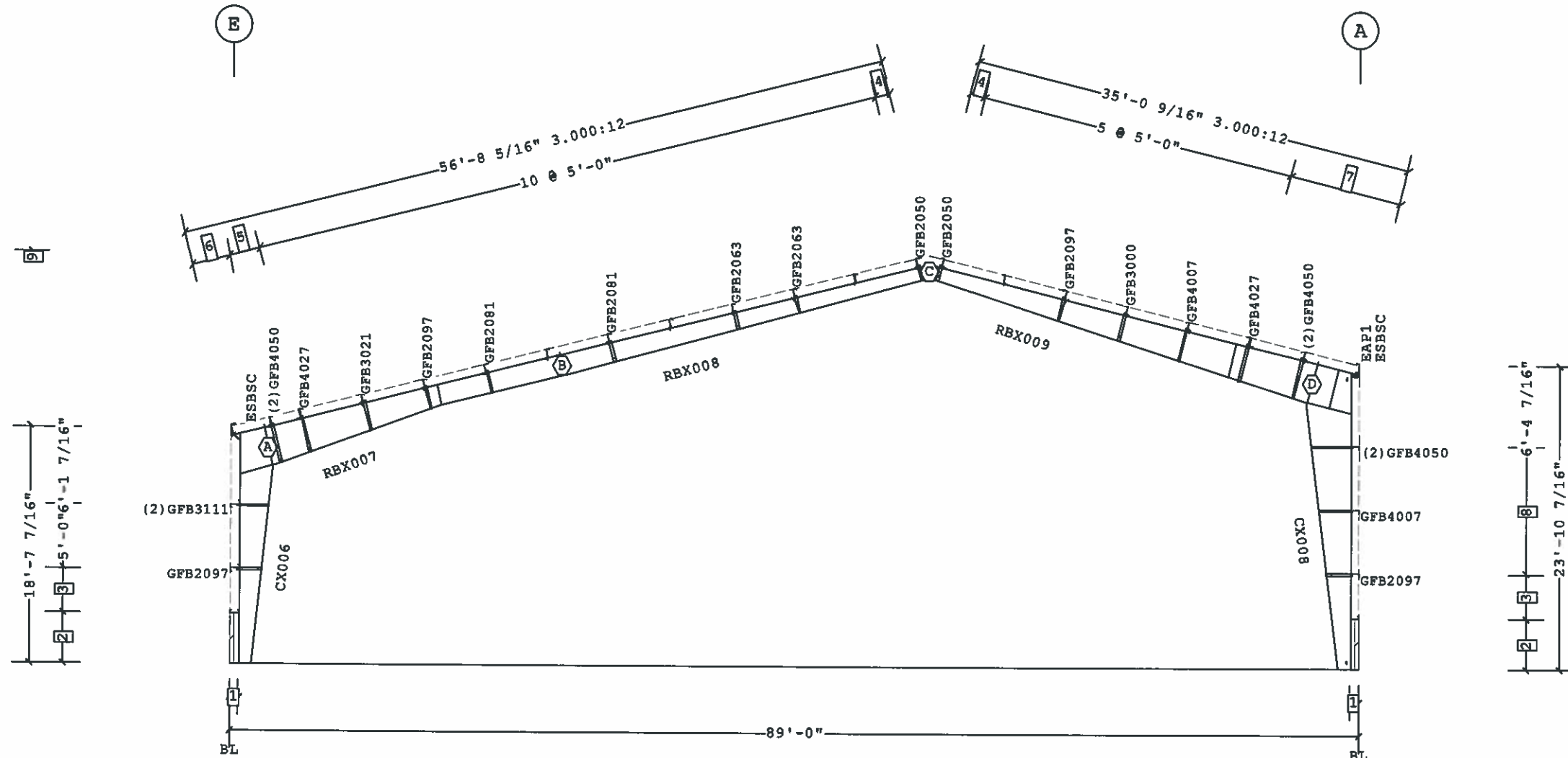
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight
CX006	1	5.0000	.3125	.1875	1'-0"	2'-8"	18'-6 7/16"	531#
RBX007	2	5.0000	.2500	.1875	3'-1"	1'-7"	24'-0"	567#
	3	5.0000	.1875	.1345	1'-7"	1'-7"		
RBX008	4	5.0000	.3125	.1345	1'-7"	1'-0"	29'-11 9/16"	551#
RBX009	5	5.0000	.2500	.1875	1'-0"	2'-9"	31'-6 13/16"	846#
	6	5.0000	.3750	.1875	2'-9"	3'-2"		
CX008	7	5.0000	.3125	.1875	1'-0"	3'-5"	23'-11 5/8"	799#

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"	2	2	0097284
B	8	A325	3/4"	2 1/2"	3/8"	2	2	0097284
C	6	A325	3/4"	2 1/2"	3/8"	1	2	0097284
D	12	A325	3/4"	2 1/2"	1/2"	4	2	0097284

Frame Clearances

Horiz. Clearance between members 1(CX006) and 7(CX008): 81'-5 3/16"
 Vert. Clearance at member 1(CX006): 15'-6 3/16"
 Vert. Clearance at member 7(CX008): 20'-8 1/16"
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



- 9 32'-4 7/16" Ridge Ht.
- 8 2 @ 5'-0"
- 7 2 @ 4'-5 3/8"
- 6 3'-1 5/16"
- 5 2'-5 1/4"
- 4 1'-1 3/4"
- 3 3'-5 3/4"
- 2 4'-0 1/4"
- 1 8 1/2"

☐ Dimension Key

FRAME CROSS SECTION AT FRAME LINE(S) 5



02/12/2018

PERMIT SET- For Building Dept. Approval

Shape Name = New multi purpose Wall 4, Frame 5

1. USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS, SECONDARY CLIP CONNECTIONS, AND FLANGE BRACE CONNECTIONS, UNLESS NOTED OTHERWISE.
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REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER	LOCATION	PROJECT	BUILDERS PO#
B				Construction Systems Inc	Group Springs Baptist Church	Spring Lake, North Carolina	Gourd Springs	33-641-001

DRAWING SCALE: NTS

FRAME CROSS SECTION AT FRAME LINE(S) 5

BUTLER
 Butler Manufacturing
 VPC VERSION 2017.2c
 a division of BlueScope Buildings North America, Inc.

JOB#	17-027944-01
DATE	02/09/2018
DRAWN/CHECK	JG / SI
PAGE	10

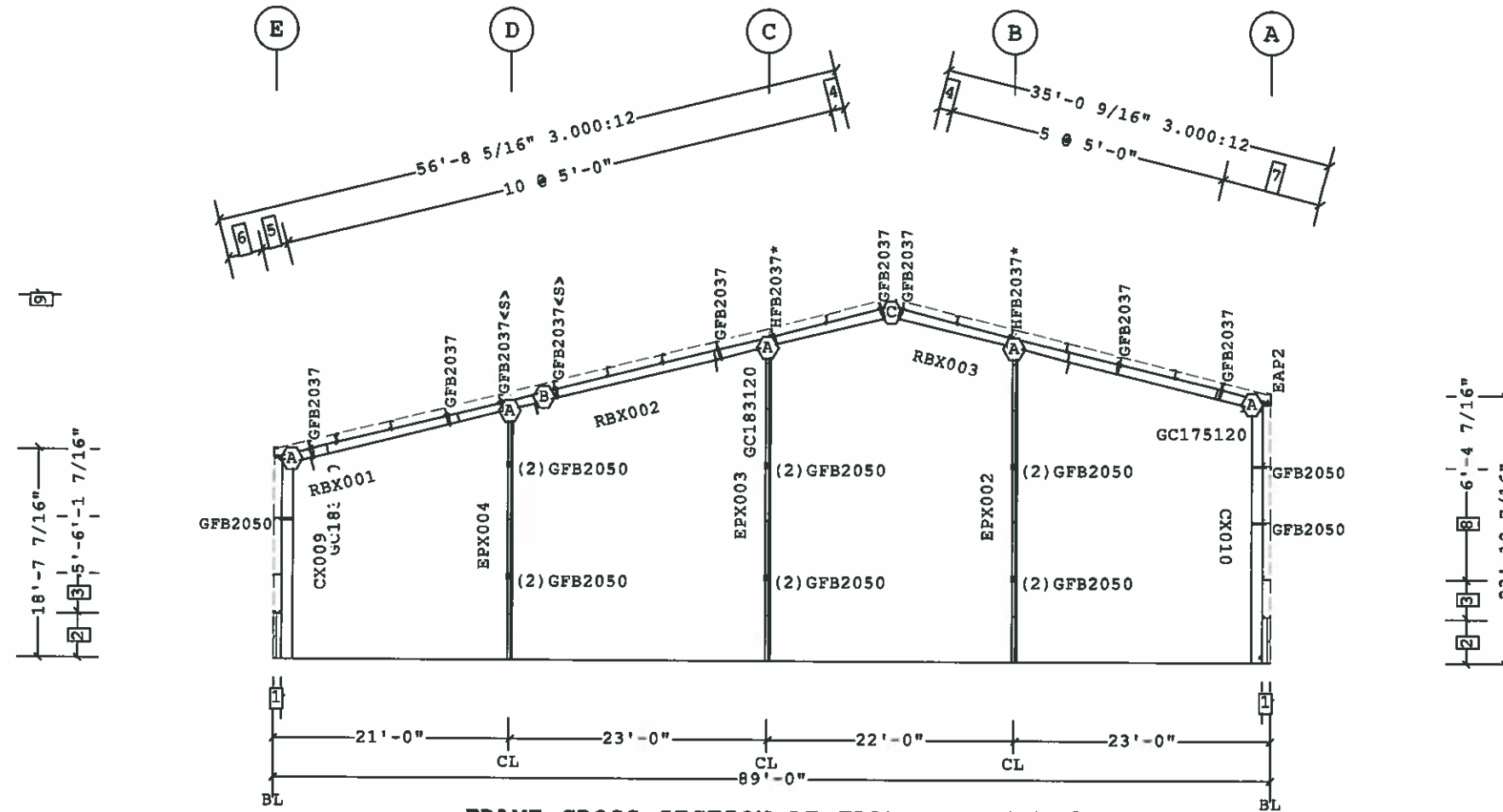
Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth	Approx.Weight	Detail
CX009	1	5.0000	.1345	.1345	1'-0"	1'-0"	18'-3 1/8"	210#	
RBX001	2	5.0000	.1345	.1345	10"	10"	23'-1 13/16"	231#	
	3	5.0000	.1345	.1345	10"	10"			
	4	5.0000	.1345	.1345	10"	10"			
	5	5.0000	.1345	.1345	10"	10"			
RBX002	6	5.0000	.1345	.1345	10"	10"	31'-11 5/8"	305#	
	7	5.0000	.1345	.1345	10"	10"			
	8	5.0000	.1345	.1345	10"	10"			
RBX003	9	5.0000	.1345	.1644	10"	10"	33'-5 5/8"	358#	
	10	5.0000	.1345	.1644	10"	10"			
	11	5.0000	.1345	.1644	10"	10"			
	12	5.0000	.1345	.1644	10"	10"			
CX010	13	5.0000	.1345	.1345	1'-0"	1'-0"	23'-6 1/8"	263#	
EPX004	14	5.0000	.1875	.1345	1'-0"	1'-0"	22'-4"	166#	BR25CA
EPX003	15	5.0000	.2500	.1345	1'-0"	1'-0"	28'-1"	265#	BR25A3
EPX002	16	5.0000	.2500	.1345	1'-0"	1'-0"	28'-1"	265#	BR25A3

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
B	4	A325	1/2"	1 1/2"	1/4"	1	1	49080
C	6	A325	1/2"	1 1/2"	1/4"	1	2	49080

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

Frame Clearances
 Horiz. Clearance between members 1(CX009) and 13(CX010): 85'-6 3/4"
 Vert. Clearance at member 1(CX009): 17'-5"
 Vert. Clearance at member 13(CX010): 22'-8"
 Vert. Clearance at member 14(EPX004): 22'-3 3/8"
 Vert. Clearance at member 15(EPX003): 28'-0 3/8"
 Vert. Clearance at member 16(EPX002): 28'-0 3/8"
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



FRAME CROSS SECTION AT FRAME LINE(S) 6

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

- 9 32'-4 7/16" Ridge Ht.
- 8 2 @ 5'-0"
- 7 2 @ 4'-5 3/8"
- 6 3'-1 5/16"
- 5 2'-5 1/4"
- 4 1'-1 3/4"
- 3 3'-5 3/4"
- 2 4'-0 1/4"
- 1 8 1/2"

Dimension Key



02/12/2018

PERMIT SET- For Building Dept. Approval

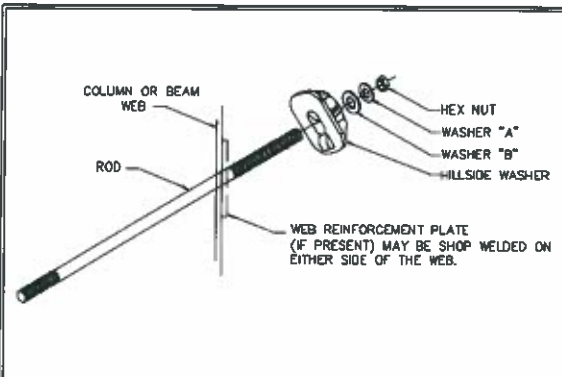
Shape Name = New multi purpose Wall 4, Frame 6

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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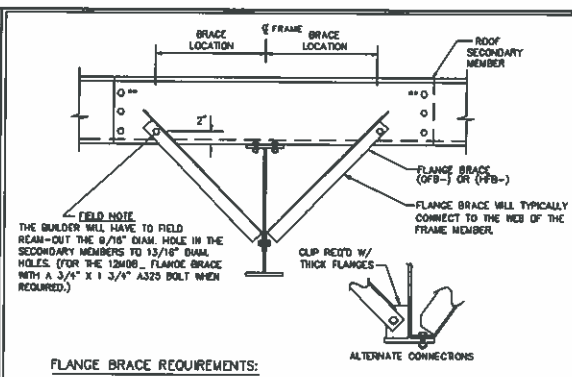
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BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102				FRAME CROSS SECTION AT FRAME LINE(S) 6	
REV	DATE	BY	DESCRIPTION	BUILDER	Construction Systems Inc
				CUSTOMER	Group Springs Baptist Church
				LOCATION	Spring Lake, North Carolina
				PROJECT	Gourd Springs
				BUILDERS PO#	33-641-001
DRAWING SCALE			NTS		
				BUTLER Butler Manufacturing VPC VERS DN 2017.2c <small>a division of BlueScope Buildings North America, Inc</small>	
				JOB # 17-027944-01 DATE 02/09/2018 DRAWN BY JG / SI CHECKED BY / PAGE 11	



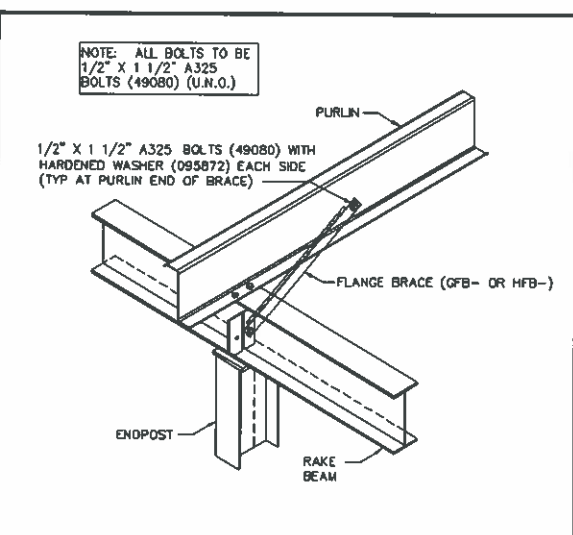
DESCRIPTION/PART NO				
ROD DIA	NUT	HARD STEEL ROUND WASHER	HARD STEEL WASHER	HILLSIDE WASHER
3/8"	95321	3/8" FLAT WASHER (95408)	1/2" BEVEL SQUARE WASHER (46040)	
1/2"	95230	1/2" FLAT WASHER (95672)	3/4" FLAT ROUND WASHER (95848)	543334
5/8"	95233	5/8" FLAT WASHER (95645)	1" FLAT ROUND WASHER (95848)	543335
3/4"	95235	3/4" FLAT WASHER (95648)	1" FLAT ROUND WASHER (95848)	543335
7/8"	95237	7/8" FLAT WASHER (95647)	1" FLAT ROUND WASHER (95848)	543335
1"	95238	1" FLAT WASHER (95648)	1 1/8" FLAT ROUND WASHER (95848)	543336
1 1/8"	95239	1 1/8" FLAT WASHER (95649)	1 1/8" FLAT ROUND WASHER (95848)	543336

REV. DATE: 06/02/17 REV. NO. 01
BR01G2 ROD BRACE WEB SLOT ASSEMBLY

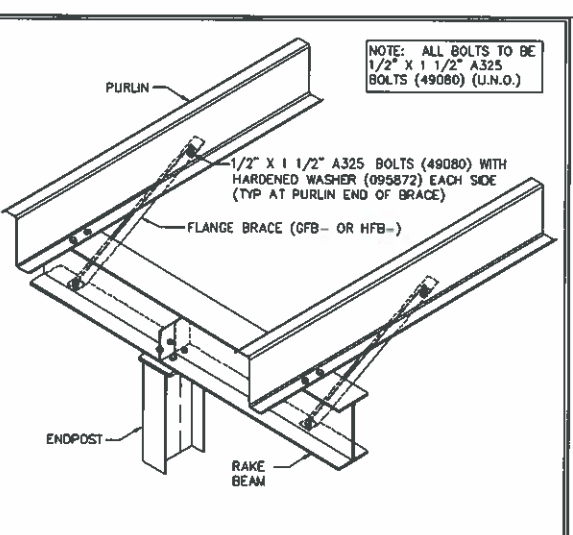


FLANGE BRACE REQUIREMENTS:
 RULE#1- ALL FLANGE BRACES ON CROSS SECTIONS MUST BE INSTALLED.
 RULE#2- SINGLE FLANGE BRACES ARE REQUIRED WHEN PART MARK ON CROSS SECTION IS NOT ACCOMPANIED BY (2).
 RULE#3- FLANGE BRACES ARE REQUIRED BOTH SIDES OF THE FRAME WEB WHEN PART MARK IS ACCOMPANIED BY (2).
 RULE#4-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

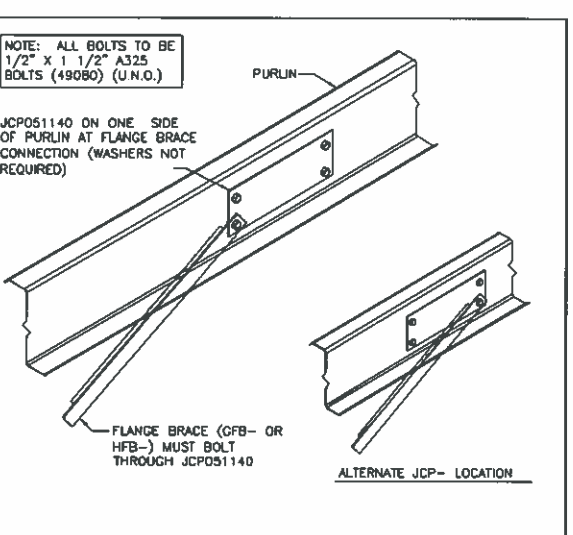
REV. DATE: 04/19/17 REV. NO. 01
BR06AE TYPICAL FLANGE BRACE CONNECTIONS CONT. PURLIN LAP SHOWN, CONT. GIRT & SIMPLE PURLIN



REV. DATE: 06/25/11 REV. NO. 01
BR25A3 ENDPPOST TOP BRACING ENDPPOST WITHIN 6" (152mm) OF PURLIN



REV. DATE: 11/16/13 REV. NO. 03
BR25CA ENDPPOST TOP BETWEEN PURLINS NO CAP CHANNEL - BRACED TO PURLINS ONLY



REV. DATE: 07/09/08 REV. NO. 00
BR25DH ENDPPOST TOP BRACING PURLIN REINFORCEMENT

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 E C C
 LENGTH WIDTH THK CODE

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

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

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

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

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

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

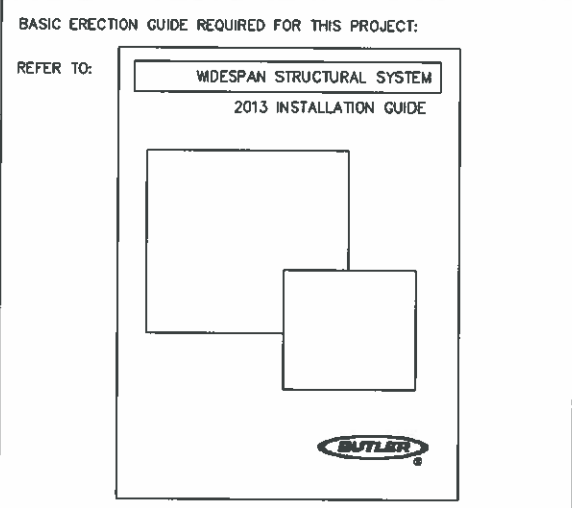
ICX*** = INTERIOR COLUMN
 PCX*** = PIPE COLUMN
 TCX*** = TUBE COLUMN

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

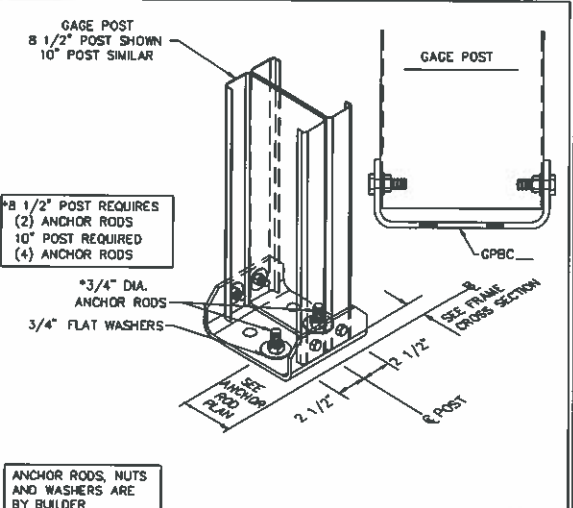
CBX*** = CANOPY (PLATE)
 CBX*** = PIGGYBACK CANOPY

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

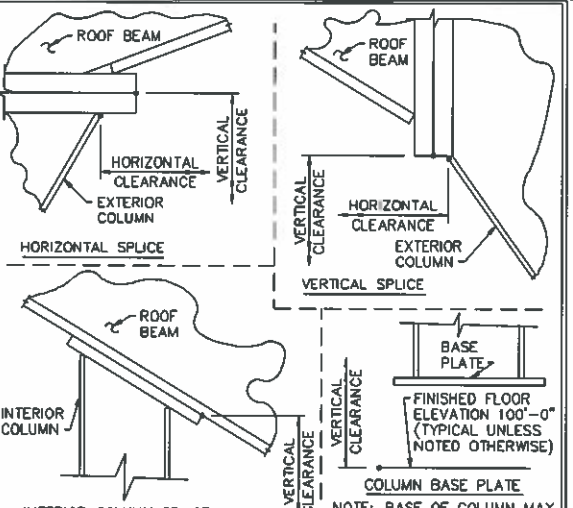
REV. DATE: 08/29/13 REV. NO. 01
EN50B1 MARK NUMBER KEY COMMON GENERATED MARK NUMBERS



REV. DATE: 01/20/14 REV. NO. 00
ENB002 BASIC ERECTION GUIDE - STRUCTURAL



REV. DATE: 11/17/13 REV. NO. 00
PF1302 GAGE POST BASE CONNECTION FACTORY ATTACHED BASE CLIP



REV. DATE: 02/12/16 REV. NO. 00
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.
 2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.

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B			
BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102			
REV.	DATE	BY	DESCRIPTION
DRAWING SCALE: NTS			

PRIMARY BRACING SED'S			
BUILDER:	Construction Systems Inc	JOB # 17-027944-01	DATE 02/09/2018
CUSTOMER:	Group Springs Baptist Church		
LOCATION:	Spring Lake, North Carolina	DRAWN/CHECKED JG / SI	PAGE 12
PROJECT:	Gourd Springs		
BUILDERS PO#:	33-641-001	 BUTLER Manufacturing VPC VERSION 2017.2c	



02/12/2018

PERMIT SET- For Building Dept. Approval

Secondary Part Schedule

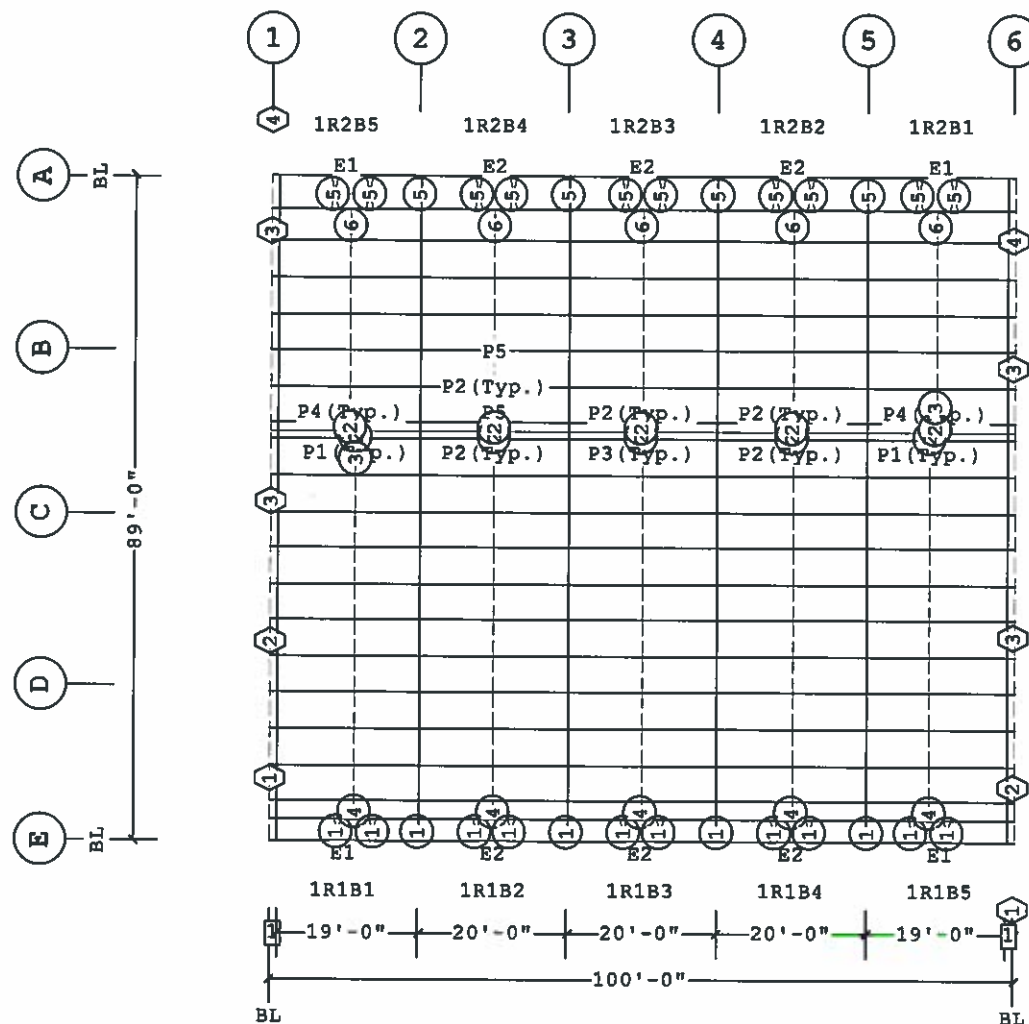
Mark	Part	Thick.	Depth	Lap	Detail
E1	10E1911414ADB33	0.0790	10"		RS12PF, RS12PE, RS12PJ
E2	10E1911414DDB33	0.0790	10"		RS12PA, RS12PE, RS12PJ
P1	08Z2211417A4A3	0.0600	8 1/2"	2'-10 1/2"	RS02T1, RS01T1
P2	08Z211141711B2	0.0600	8 1/2"	10 1/2"	RS01T1
P3	08Z221141722B2	0.0600	8 1/2"	1'-4 1/2"	RS01T1
P4	08Z2105417A2B3	0.0600	8 1/2"	1'-4 1/2"	RS02T1, RS01T1
P5	08Z211141611B2	0.0680	8 1/2"	10 1/2"	RS01T1

Secondary Bracing Schedule

Id	Qty	Mark No	Spacing
1	24	PBA0306	3'-1 5/16"
2	10	CPBRD010512	1'-1 3/4"
3	75	CPBB050108 (Typ.)	5'-0"
4	5	CPBB020612	2'-5 1/4"
5	24	PBA0410	4'-5 3/8"
6	5	CPBB040700	4'-5 3/8"

See SED:

BR09K5, BR09JG, BR09RY, BR09RZ, BR09PK
BR09PH, BR09JH, BR09K2



ROOF SECONDARY PLAN

Part Mark Key

1	001SGA18000
2	001SGA19114
3	001SGA18072
4	001SGA16042

1 1'-0"

Dimension Key



02/12/2018

PERMIT SET- For Building Dept. Approval

Shape Name = New multi purpose

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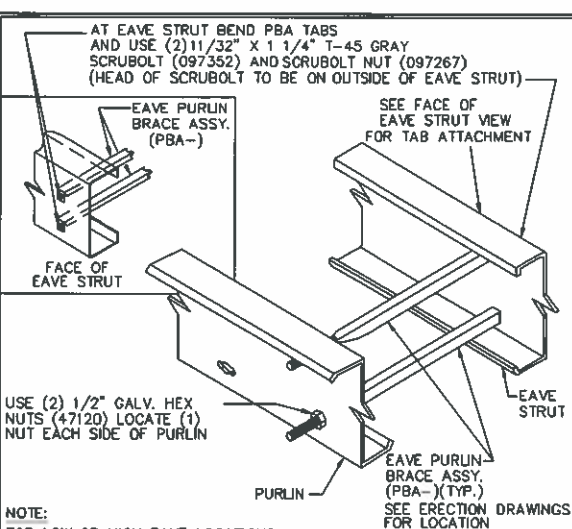
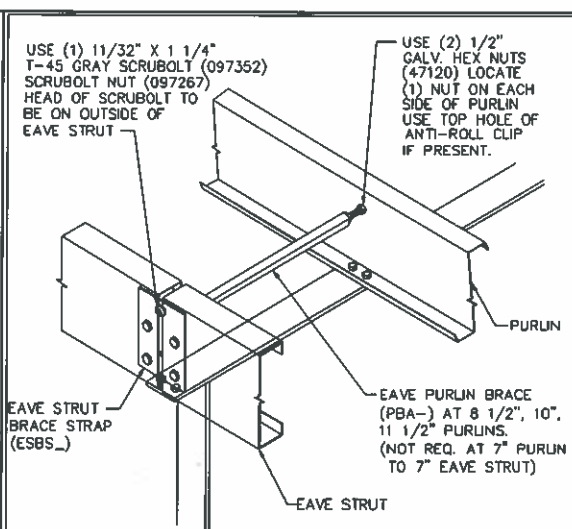
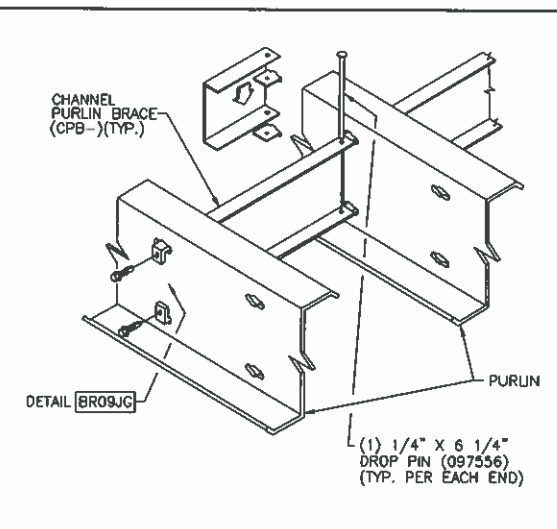
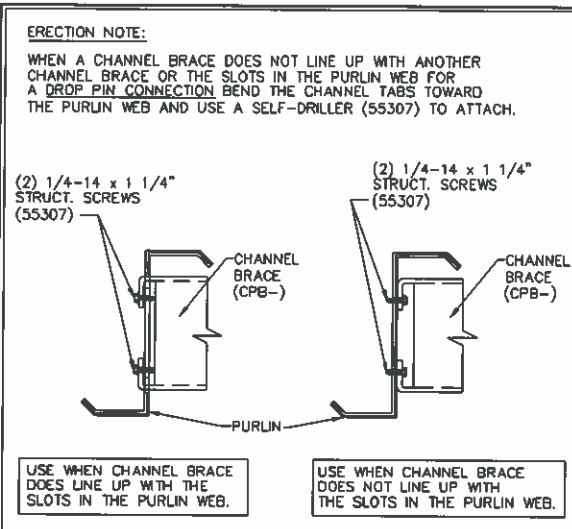
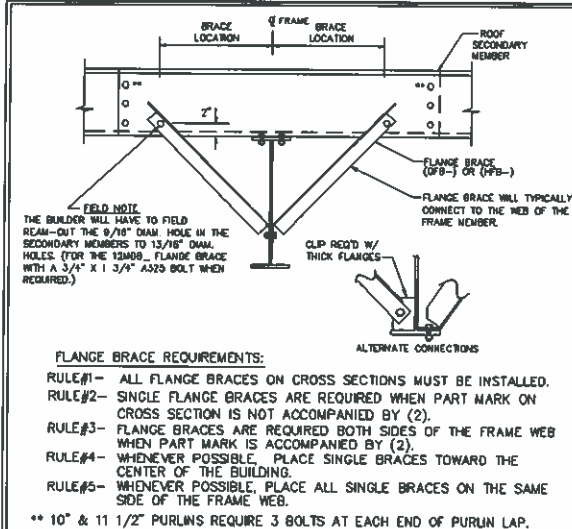
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BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102				ROOF SECONDARY PLAN	
REV	DATE	BY	DESCRIPTION	BUILDER	CUSTOMER
				Construction Systems Inc	Group Springs Baptist Church
					Spring Lake, North Carolina
					Gourd Springs
				BUILDERS PO# 33-641-001	



JOB #	17-027944-01
DATE	02/09/2018
DRAWN/CHECKED	JG / SI
PAGE	13



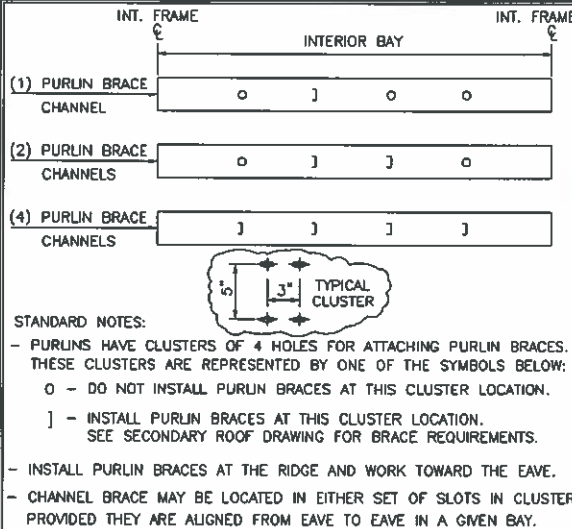
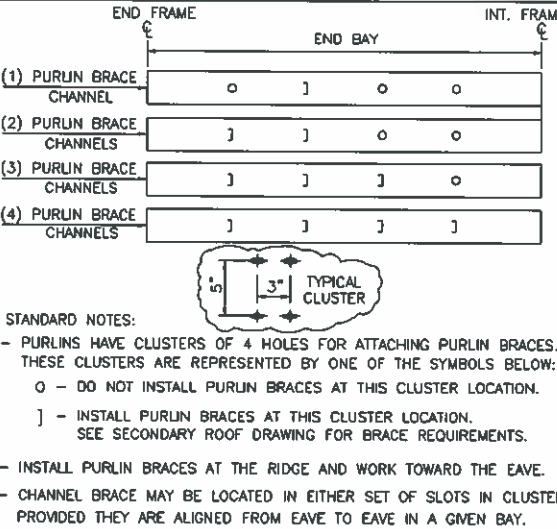
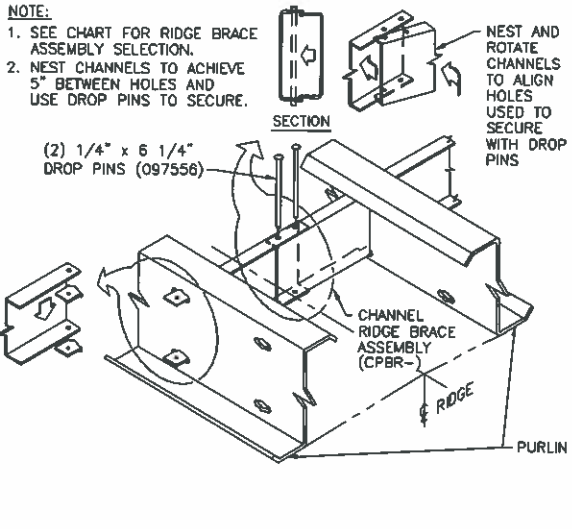
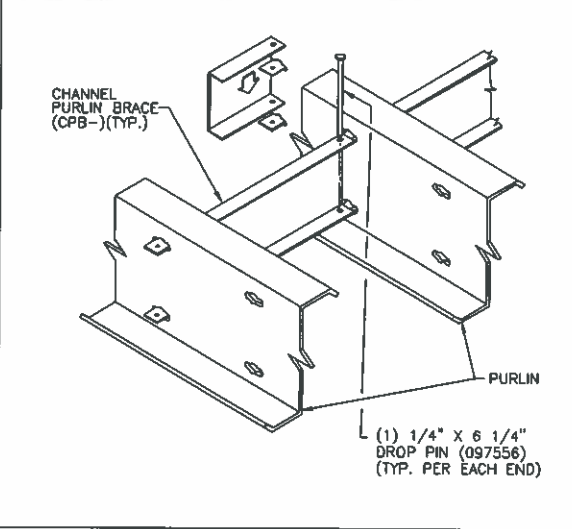
REV. DATE: 06/18/17 REV. NO. 01
 TYPICAL FLANGE BRACE CONNECTIONS
 CONT. PURLIN LAP SHOWN, CONT. GIRT & SIMPLE PURLIN

REV. DATE: 04/05/11 REV. NO. 01
 CHANNEL BRACE ENDING AT PURLIN WEB
 SELF-DRILLER WITH BENT TABS

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

REV. DATE: 07/26/08 REV. NO. 00
 EAVE BRACE STRAP AND EAVE PURLIN BRACE
 LOCATED AT EAVE - CENTERLINE OF FRAME

REV. DATE: 01/26/12 REV. NO. 04
 EAVE STRUT BRACE



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

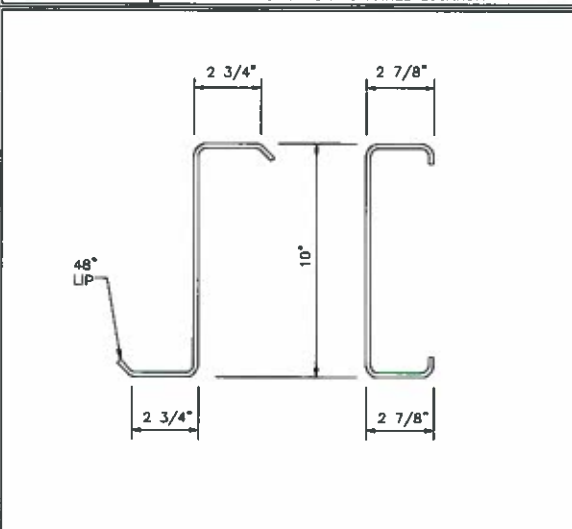
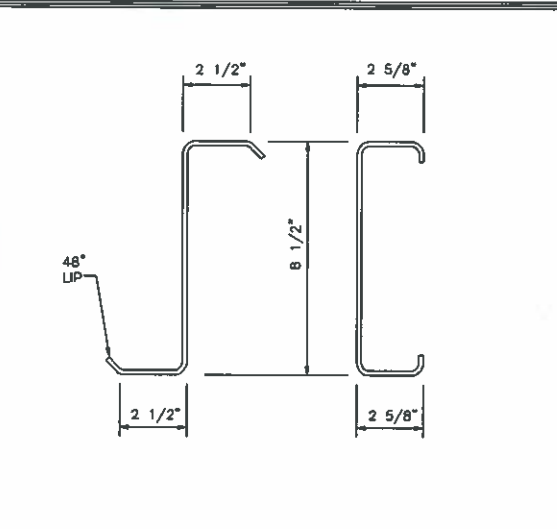
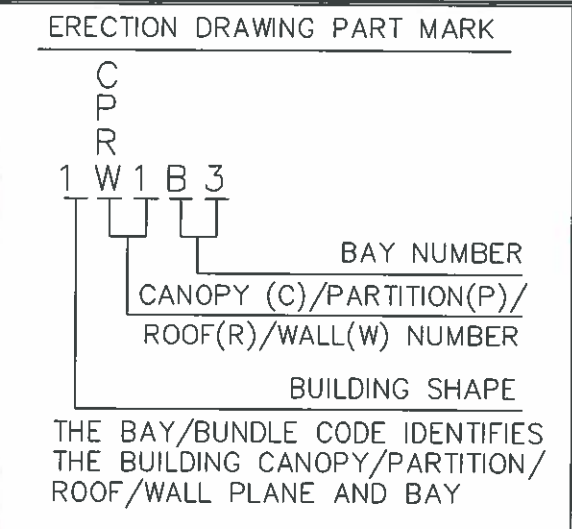
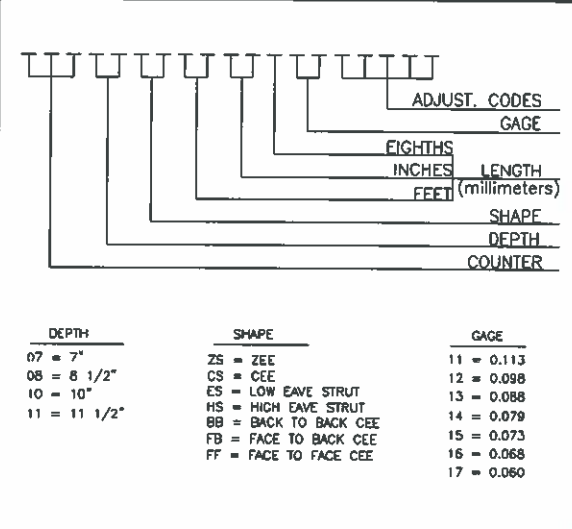
REV. DATE: 07/01/09 REV. NO. 00
 SINGLE CHANNEL PURLIN BRACE
 INTERMEDIATE LOCATION

REV. DATE: 07/01/09 REV. NO. 00
 CHANNEL RIDGE BRACE ASSEMBLY
 SINGLE BRACE AT SYMMETRICAL RIDGE

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

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

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



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

REV. DATE: 01/21/12 REV. NO. 01
 SECONDARY BUNDLE LOCATION KEY
 ALL SECONDARY DEPTHS

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

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

02/12/2018

PERMIT SET- For Building Dept. Approval

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B BUTLER MANUFACTURING
 1540 GENESSEE ST. KANSAS CITY, MO 64102

REV.	DATE	BY	DESCRIPTION

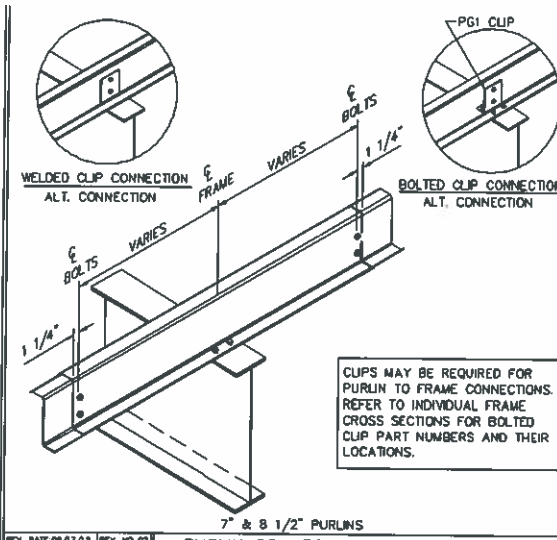
DRAWING SCALE: NTS

ROOF SECONDARY SED'S

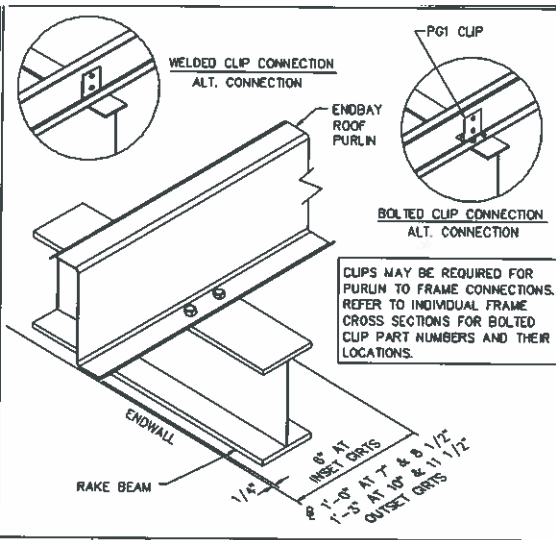
BUILDER	Construction Systems Inc
CUSTOMER	Group Springs Baptist Church
LOCATION	Spring Lake, North Carolina
PROJECT	Gourd Springs
BUILDERS PDF	33-641-001

Butler Manufacturing
 VPC VERSION 2017.2c

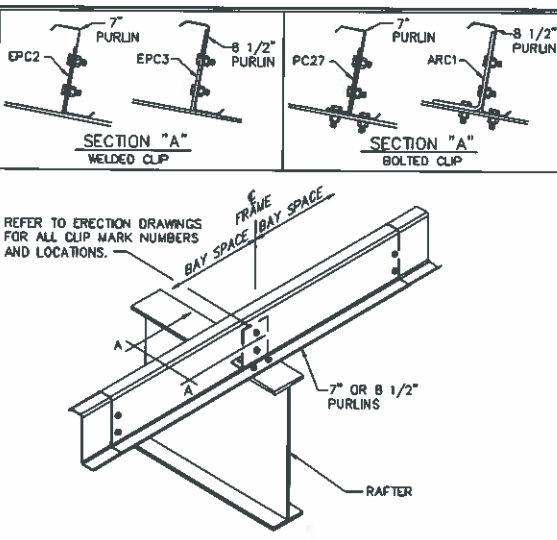
JOB#	17-027944-01
DATE	02/09/2018
DRAWN/CHECK	JG / SJ
PAGE	14



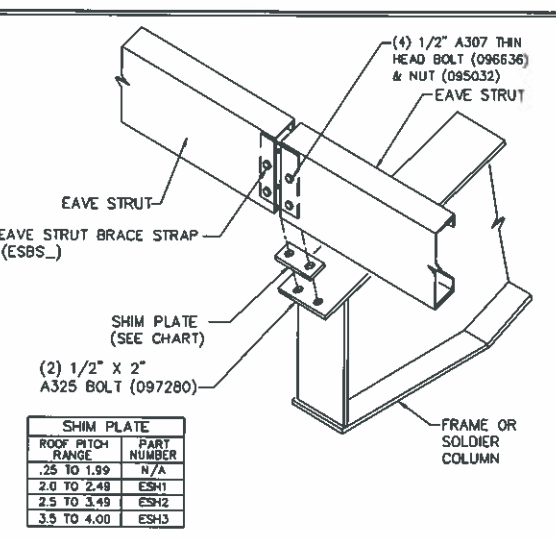
REV. DATE: 08/17/13 REV. NO. 02
RS01T1 PURLIN CONNECTION AT INTERIOR FRAME CONTINUOUS PURLINS



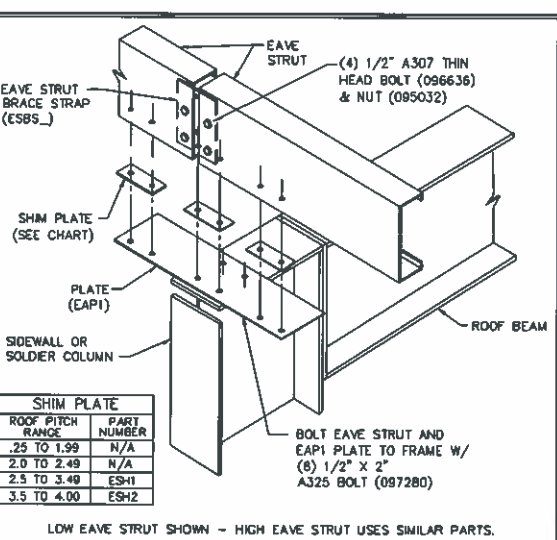
REV. DATE: 08/17/13 REV. NO. 03
RS02T1 PURLIN CONNECTION TO END FRAME CONTINUOUS PURLINS



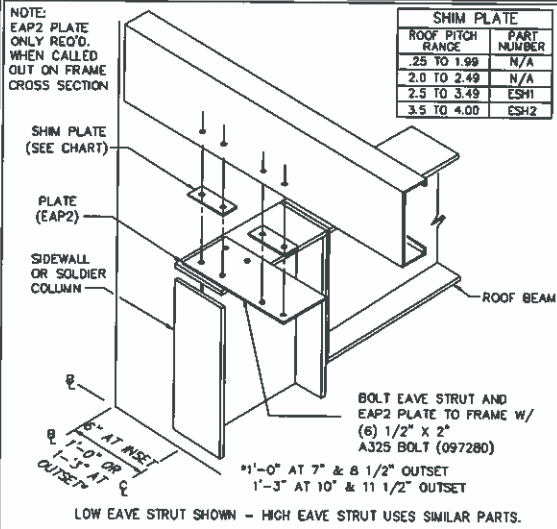
REV. DATE: 08/11/14 REV. NO. 04
RS03J1 ANTI-ROLL PURLIN CLIPS WHEN REQUIRED BY DESIGN



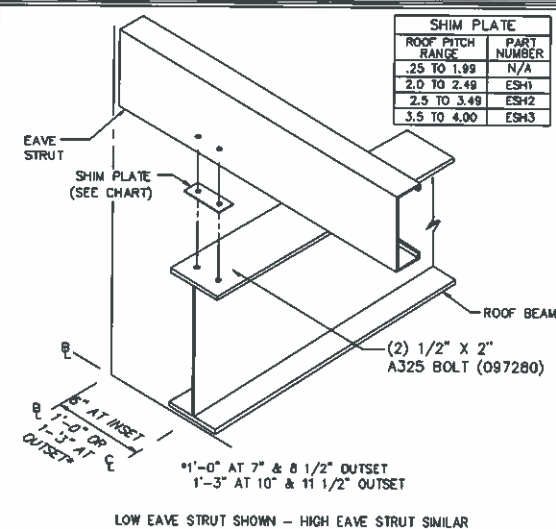
REV. DATE: 07/20/18 REV. NO. 03
RS12PA EAVE STRUT CONNECTION AT INTERIOR FRAME



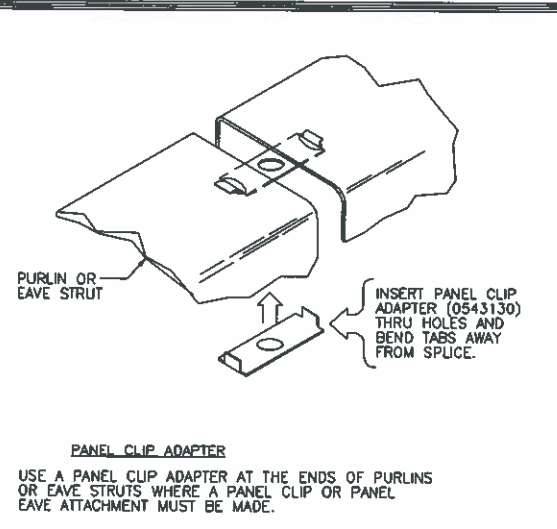
REV. DATE: 07/20/18 REV. NO. 05
RS12PE EAVE STRUT W/ ATTACHMENT PLATE INTERIOR FRAME



REV. DATE: 03/28/18 REV. NO. 01
RS12PF EAVE STRUT W/ ATTACHMENT PLATE END FRAME



REV. DATE: 03/28/18 REV. NO. 01
RS12PH EAVE STRUT CONNECTION AT END FRAME



REV. DATE: 12/04/09 REV. NO. 03
RS12PJ PANEL CLIP AT EAVE STRUT LOCATED WHERE STRUT STOPS BUT CONNECTION REQUIRED

NOTE: EAP2 PLATE ONLY REQ'D WHEN CALLED OUT ON FRAME CROSS SECTION

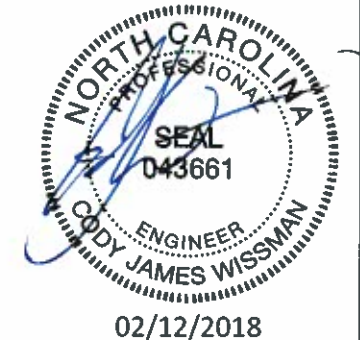
SHIM PLATE	
ROOF PITCH RANGE	PART NUMBER
.25 TO 1.99	N/A
2.0 TO 2.49	N/A
2.5 TO 3.49	ESH1
3.5 TO 4.00	ESH2

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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PERMIT SET- For Building Dept. Approval

B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		ROOF SECONDARY SED'S	
	REV	DATE	BY	DESCRIPTION
DRAWING SCALE: NTS		BUILDER: Construction Systems Inc	CUSTOMER: Group Springs Baptist Church	LOCATION: Spring Lake, North Carolina
		PROJECT: Gourd Springs	BUILDERS PCH: 33-641-001	DATE: 02/09/2018
				DRAWN BY: JG
				CHECKED BY: SI
				PAGE: 15

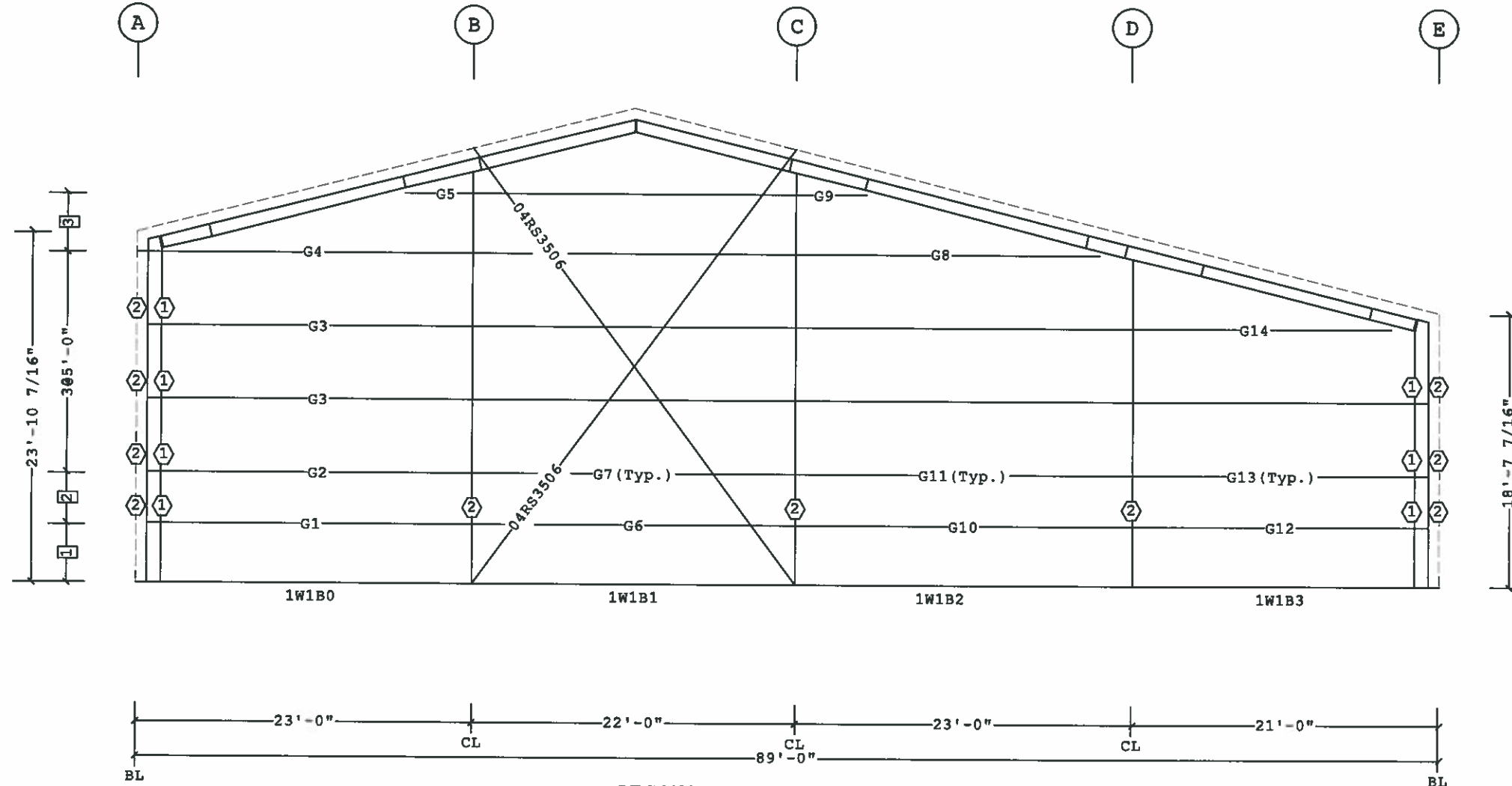


Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G1	08C2202416DQ02	0.0680	8 1/2"		WS12N2, WS01Q2
G10	08C2211416DD02	0.0680	8 1/2"		WS01Q2
G11	08Z24114171102	0.0600	8 1/2"	10 1/2"	WS01G3
G12	08C2002417DQ02	0.0600	8 1/2"		WS12N2, WS01Q2
G13	08Z2102417Q102	0.0600	8 1/2"	10 1/2"	WS12N2, WS01G3
G14	00408ZS180901702	0.0600	8 1/2"	10 1/2"	WS12N2, WS04C2, WS01G3
G2	08Z2302416Q102	0.0680	8 1/2"	10 1/2"	WS12N2, WS01G3
G3	08Z2302417Q102	0.0600	8 1/2"	10 1/2"	WS12N2, WS01G3
G4	08Z2311417D102	0.0600	8 1/2"	10 1/2"	WS12N2, WS01G3
G5	00108ZS050901702	0.0600	8 1/2"	10 1/2"	WS12N2, WS01G3, WS04C2
G6	08C2111416DD02	0.0680	8 1/2"		WS01Q2
G7	08Z23114171102	0.0600	8 1/2"	10 1/2"	WS01G3
G8	00208ZS210901702	0.0600	8 1/2"	10 1/2"	WS12N2, WS04C2, WS01G3
G9	00308ZS050901702	0.0600	8 1/2"	10 1/2"	WS12N2, WS04C2, WS01G3

Bracing Part Schedule

Part	Qty	Length	Detail
04RS3506	2	35'-6"	BR01G2



SECONDARY ELEVATION AT 1

- 2 GFAP1054
- 1 VCC07003090
- Part Mark Key
- 3 4'-0"
- 2 3'-5 3/4"
- 1 4'-0 1/4"
- Dimension Key



02/12/2018

PERMIT SET- For Building Dept. Approval

Shape Name = New multi purpose, Wall = 1

1. UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.
 2. FLANGE BRACES ARE AN INTEGRAL PART OF THE STABILITY OF THE STRUCTURAL SYSTEM AND MUST BE PROPERLY INSTALLED PRIOR TO ERECTION OF WALL AND ROOF SHEETS.
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REV	DATE	BY	DESCRIPTION
B			

BUTLER MANUFACTURING
1540 GENESSEE ST. KANSAS CITY, MO 64102

SECONDARY ELEVATION AT 1	
BUILDER	Construction Systems Inc
CUSTOMER	Group Springs Baptist Church
LOCATION	Spring Lake, North Carolina
PROJECT	Gourd Springs
BUILDERS PDM	33-641-001



Butler Manufacturing
VPC VERSION 2017.2c

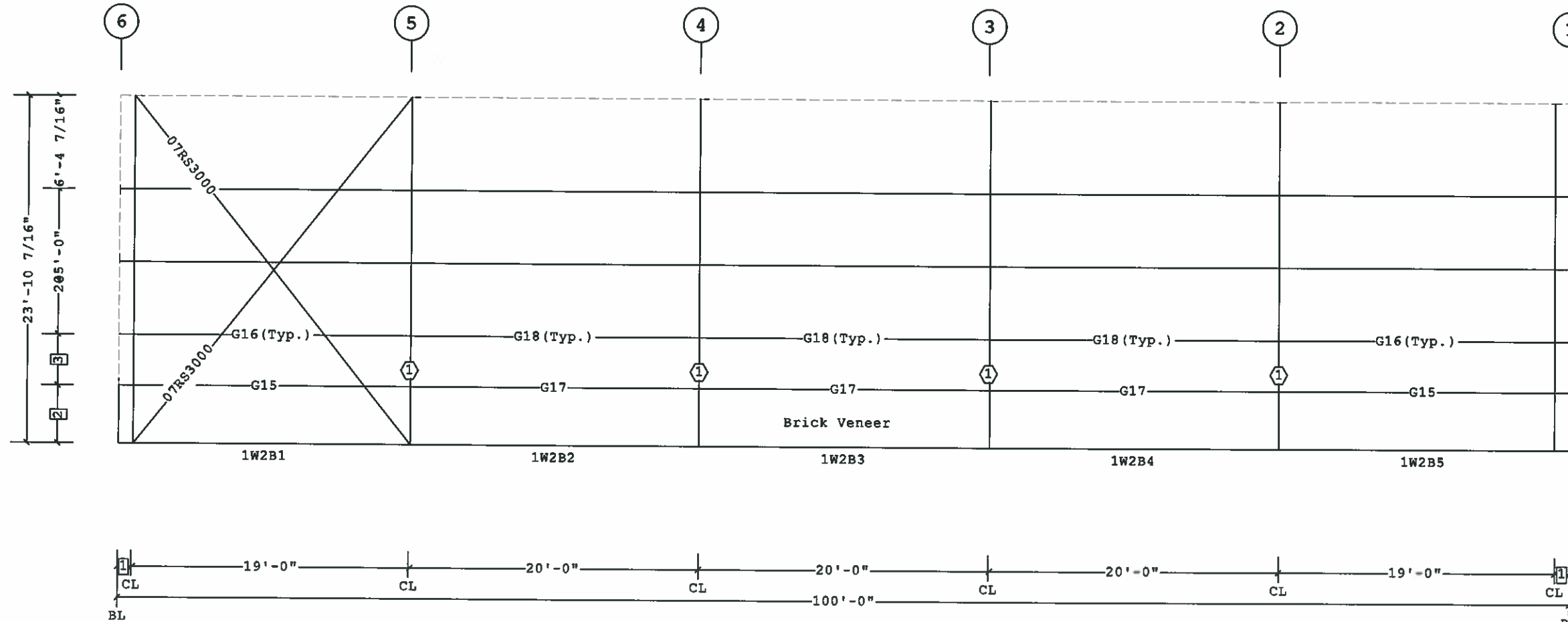
JOB#	17-027944-01
DATE	02/09/2018
DRAWN/CHECK	JG / SI
PAGE	16

Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G15	08C1911417AD02	0.0600	8 1/2"		WS12N2,WS01Q2
G16	08Z2011417A102	0.0600	8 1/2"	10 1/2"	WS12N2,WS01G3
G17	08C1911417DD02	0.0600	8 1/2"		WS01Q2
G18	08Z21114171102	0.0600	8 1/2"	10 1/2"	WS01G3

Bracing Part Schedule

Part	Qty	Length	Detail
07RS3000	2	30'-0"	BR01G2



SECONDARY ELEVATION AT A

- 1 GFAP1054
- Part Mark Key
- 3 3'-5 3/4"
- 2 4'-0 1/4"
- 1 1'-0"
- Dimension Key



PERMIT SET- For Building Dept. Approval

Shape Name = New multi purpose, Wall = 2

1. UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.
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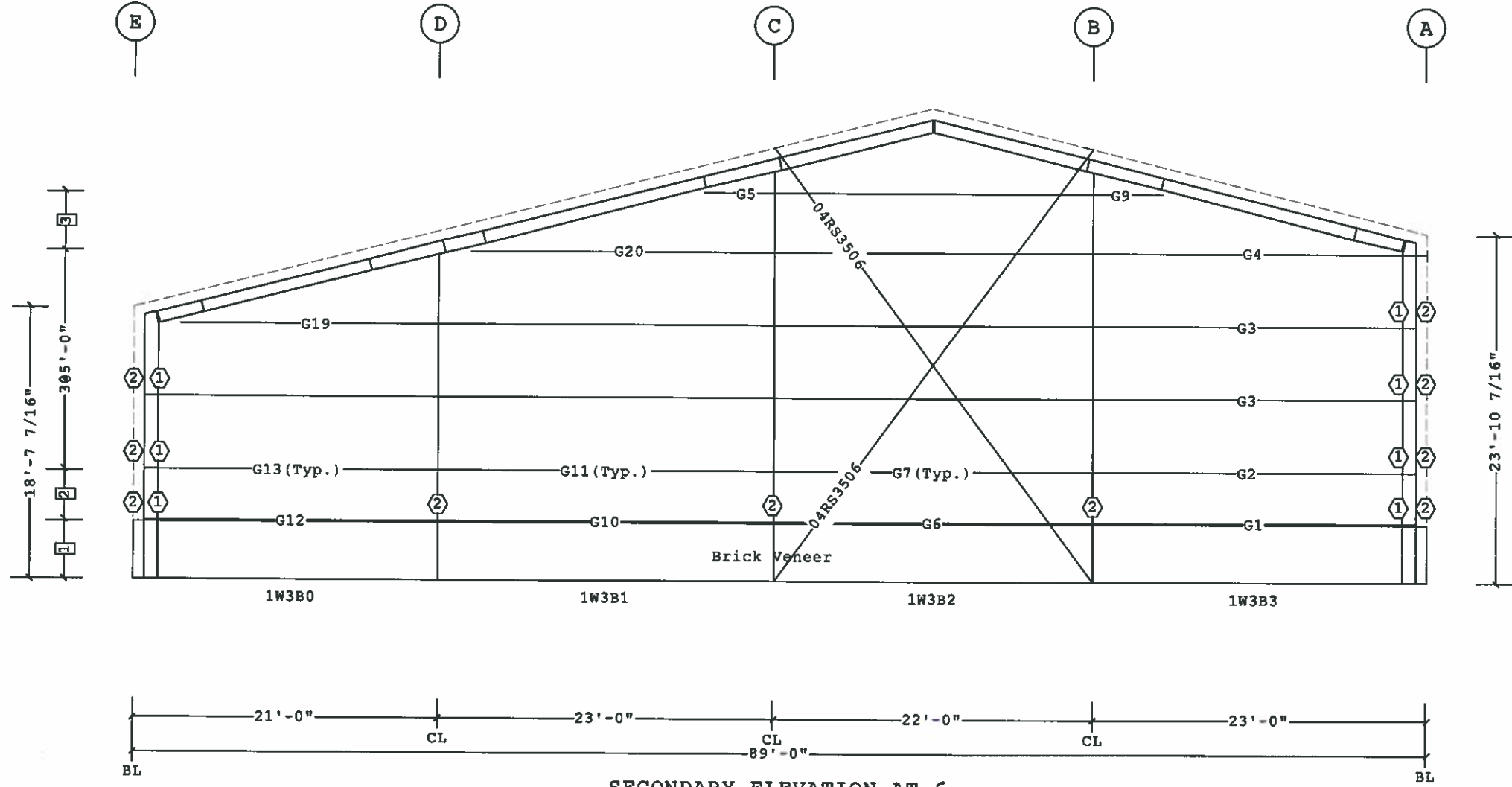
B		BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		SECONDARY ELEVATION AT A	
REV	DATE	BY	DESCRIPTION	BUILDER	Construction Systems Inc
				CUSTOMER	Group Springs Baptist Church
				LOCATION	Spring Lake, North Carolina
				PROJECT	Gourd Springs
				BUILDERS PO#	33-641-001
DRAWING SCALE			NTS	BUTLER Butler Manufacturing WPC VERSION 2017.2c 17	

Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G1	08C2202416DQ02	0.0680	8 1/2"		WS12N2, WS01Q2
G10	08C2211416DD02	0.0680	8 1/2"		WS01Q2
G11	08Z24114171102	0.0600	8 1/2"	10 1/2"	WS01G3
G12	08C2002417DQ02	0.0600	8 1/2"		WS12N2, WS01Q2
G13	08Z2102417Q102	0.0600	8 1/2"	10 1/2"	WS12N2, WS01G3
G19	005082S180901702	0.0600	8 1/2"	10 1/2"	WS12N2, WS01G3, WS04C2
G2	08Z2302416Q102	0.0680	8 1/2"	10 1/2"	WS12N2, WS01G3
G20	006082S210901702	0.0600	8 1/2"	10 1/2"	WS12N2, WS01G3, WS04C2
G3	08Z2302417Q102	0.0600	8 1/2"	10 1/2"	WS12N2, WS01G3
G4	08Z2311417D102	0.0600	8 1/2"	10 1/2"	WS12N2, WS01G3
G5	001082S050901702	0.0600	8 1/2"	10 1/2"	WS12N2, WS01G3, WS04C2
G6	08C2111416DD02	0.0680	8 1/2"		WS01Q2
G7	08Z23114171102	0.0600	8 1/2"	10 1/2"	WS01G3
G9	003082S050901702	0.0600	8 1/2"	10 1/2"	WS12N2, WS04C2, WS01G3

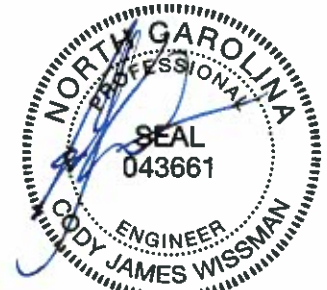
Bracing Part Schedule

Part	Qty	Length	Detail
04RS3506	2	35'-6"	BR01G2



SECONDARY ELEVATION AT 6

- 3 4'-0"
 - 2 3'-5 3/4"
 - 1 4'-0 1/4"
- Dimension Key
- 2 GFAP1054
 - 1 VCC07003090
- Part Mark Key



02/12/2018

PERMIT SET- For Building Dept. Approval

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B		BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102	
REV.	DATE	BY	DESCRIPTION
DRAWING SCALE: NTS			

SECONDARY ELEVATION AT 6	
ORDER	Construction Systems Inc
CUSTOMER	Group Springs Baptist Church
LOCATION	Spring Lake, North Carolina
PROJECT	Gourd Springs
BUILDERS PO#	33-641-001



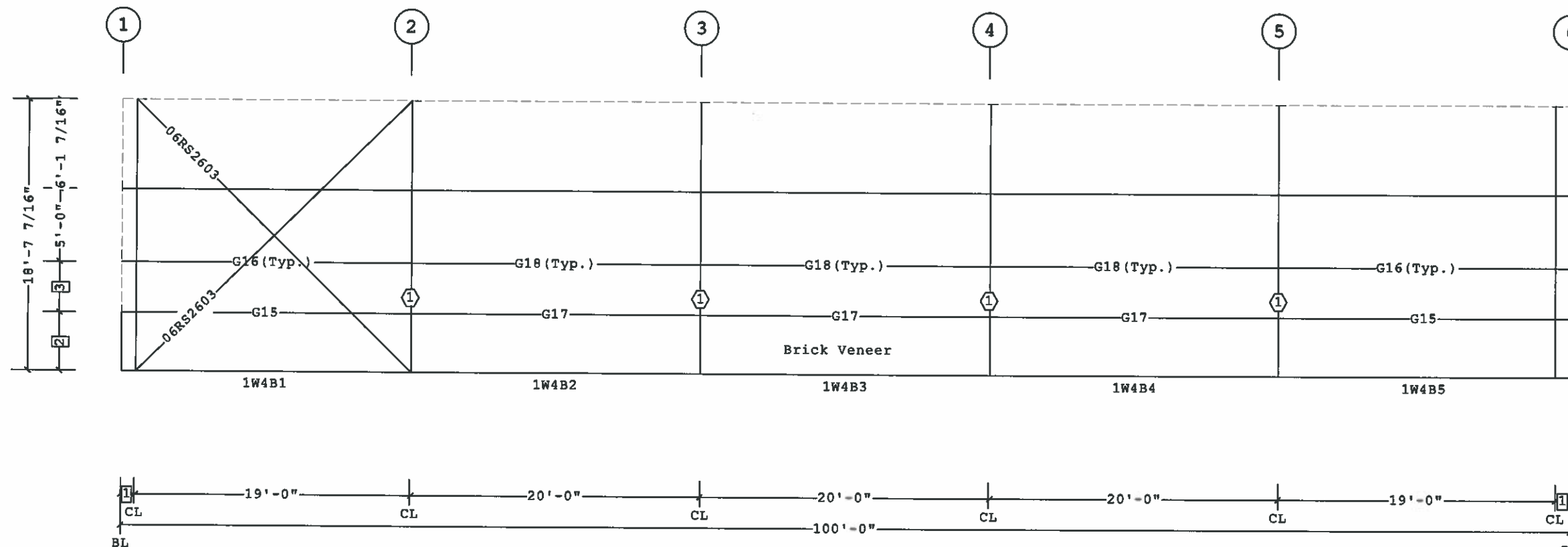
JOB#	17-027944-01
DATE	02/09/2018
DRAWN/CHECKED	JG / SI
PAGE	18

Secondary Part Schedule

Mark	Part	Thick.	Depth	Lap	Detail
G15	08C1911417AD02	0.0600	8 1/2"		WS12N2,WS01Q2
G16	08Z2011417A102	0.0600	8 1/2"	10 1/2"	WS12N2,WS01G3
G17	08C1911417DD02	0.0600	8 1/2"		WS01Q2
G18	08Z21114171102	0.0600	8 1/2"	10 1/2"	WS01G3

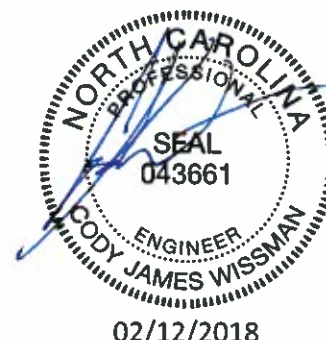
Bracing Part Schedule

Part	Qty	Length	Detail
06RS2603	2	26'-3"	BR01G2



SECONDARY ELEVATION AT E

- 1 GFAP1054
- Part Mark Key
- 3 3'-5 3/4"
- 2 4'-0 1/4"
- 1 1'-0"
- Dimension Key



PERMIT SET- For Building Dept. Approval

Shape Name = New multi purpose, Wall = 4

1. UNLESS NOTED, USE 1/2 X 1 1/2 A325T BOLT (49080) AND NUT (47120) W/O WASHERS. SNUG TIGHTEN BOLTS FOR ALL SECONDARY CONNECTIONS.
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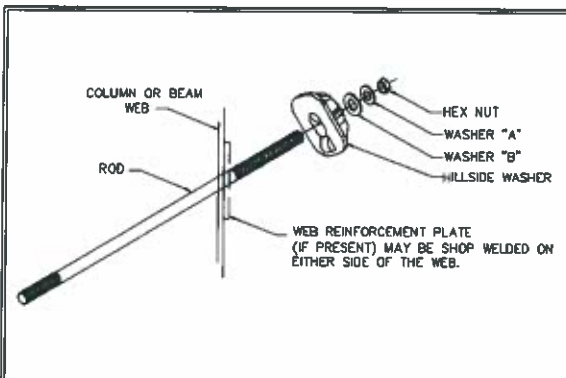
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B BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		SECONDARY ELEVATION AT E	
REV	DATE	BY	DESCRIPTION
BUILDER	Construction Systems Inc		
CUSTOMER	Group Springs Baptist Church		
LOCATION	Spring Lake, North Carolina		
PROJECT	Gourd Springs		
BUILDERS PO#	33-641-001		
DRAWING SCALE	NTS		
JOB #	17-027944-01		
DATE	02/09/2018		
DRAWN/CHECK	JG / SI		
PAGE	19		

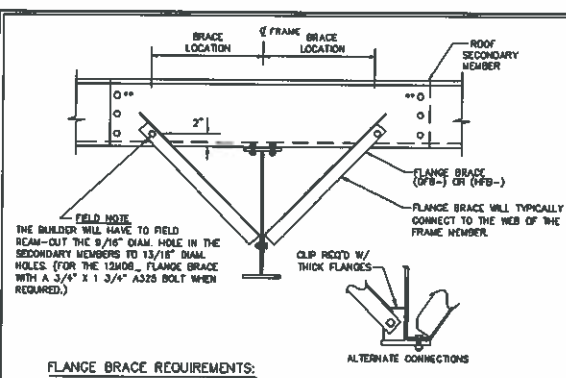


Butler Manufacturing
 VPC VERSION 2017.2c



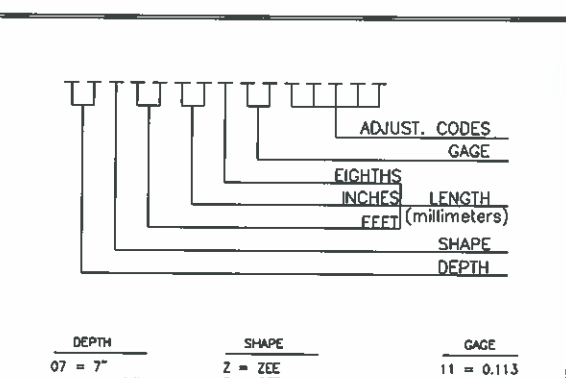
DESCRIPTION/PART NO				
ROD DIAM	NUT	HARD STEEL ROUND WASHER A	HARD STEEL WASHER B	HILLSIDE WASHER
3/8"	95321	3/8" FLAT WASHER (95408)	1/2" BEVEL SQUARE WASHER (46040)	543334
1/2"	95230	1/2" FLAT WASHER (95672)	3/4" FLAT ROUND WASHER (95948)	543334
5/8"	95233	5/8" FLAT WASHER (95945)		
3/4"	95235	3/4" FLAT WASHER (95948)		
7/8"	95237	7/8" FLAT WASHER (95947)	1" FLAT ROUND WASHER (95948)	543335
1"	95238	1" FLAT WASHER (95948)		
1 1/8"	95239	1 1/8" FLAT WASHER (95949)	1 1/8" FLAT ROUND WASHER (95948)	543336

REV. DATE: 09/25/07 REV. NO. 01
BRO1G2 ROD BRACE WEB SLOT ASSEMBLY



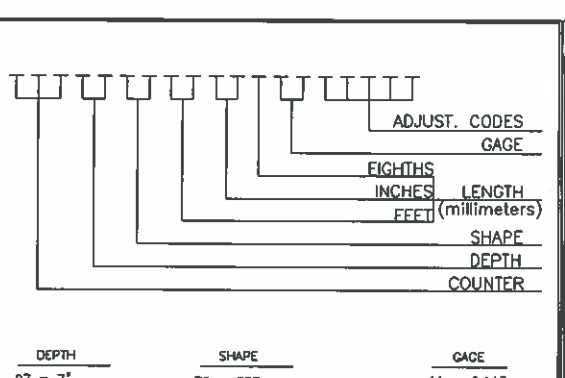
FLANGE BRACE REQUIREMENTS:
 RULE#1- ALL FLANGE BRACES ON CROSS SECTIONS MUST BE INSTALLED.
 RULE#2- SINGLE FLANGE BRACES ARE REQUIRED WHEN PART MARK ON CROSS SECTION IS NOT ACCOMPANIED BY (2).
 RULE#3- FLANGE BRACES ARE REQUIRED BOTH SIDES OF THE FRAME WEB WHEN PART MARK IS ACCOMPANIED BY (2).
 RULE#4-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

REV. DATE: 01/16/17 REV. NO. 01
BRO6AE TYPICAL FLANGE BRACE CONNECTIONS CONT. PURLIN LAP SHOWN, CONT. GIRT & SIMPLE PURLIN



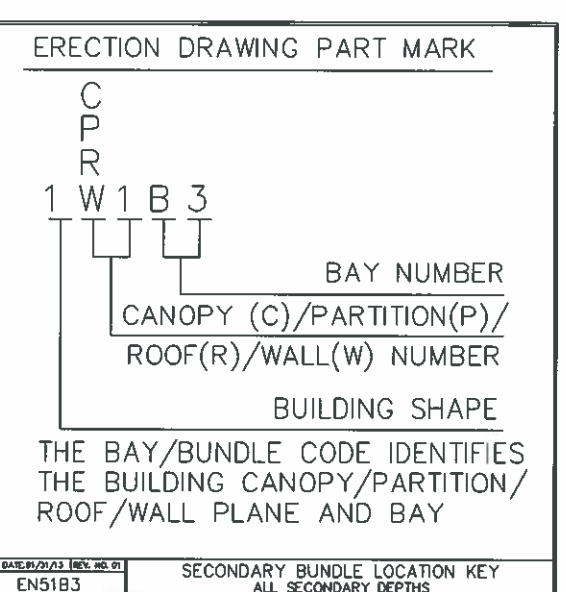
DEPTH	SHAPE	GAGE
07 = 7"	Z = ZEE	11 = 0.113
08 = 8 1/2"	C = CEE	12 = 0.098
10 = 10"	E = LOW EAVE STRUT	13 = 0.088
11 = 11 1/2"	H = HIGH EAVE STRUT	14 = 0.079
		15 = 0.073
		16 = 0.068
		17 = 0.060

REV. DATE: 07/01/08 REV. NO. 00
ENS1B1 SECONDARY PART MARK NUMBER COMMON GENERATED MARK NUMBERS

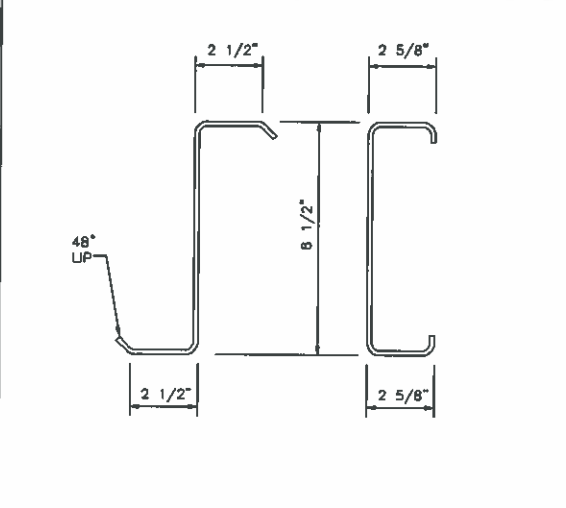


DEPTH	SHAPE	GAGE
07 = 7"	ZS = ZEE	11 = 0.113
08 = 8 1/2"	CS = CEE	12 = 0.098
10 = 10"	ES = LOW EAVE STRUT	13 = 0.088
11 = 11 1/2"	HS = HIGH EAVE STRUT	14 = 0.079
	BB = BACK TO BACK CEE	15 = 0.073
	FB = FACE TO BACK CEE	16 = 0.068
	FF = FACE TO FACE CEE	17 = 0.060

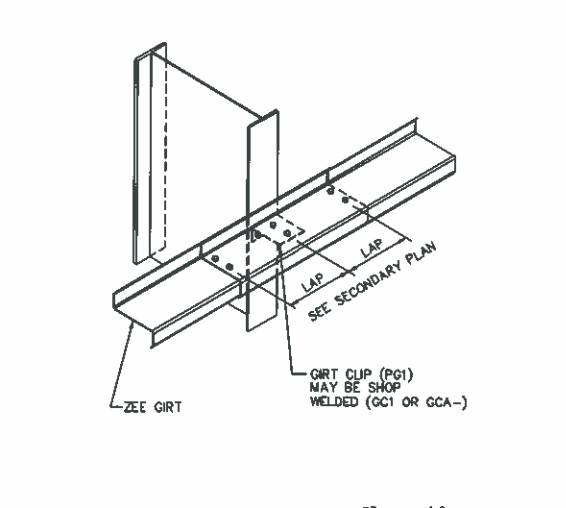
REV. DATE: 07/01/08 REV. NO. 01
ENS1B2 SPECIAL SECONDARY PART MARK KEY COMMON GENERATED MARK NUMBERS



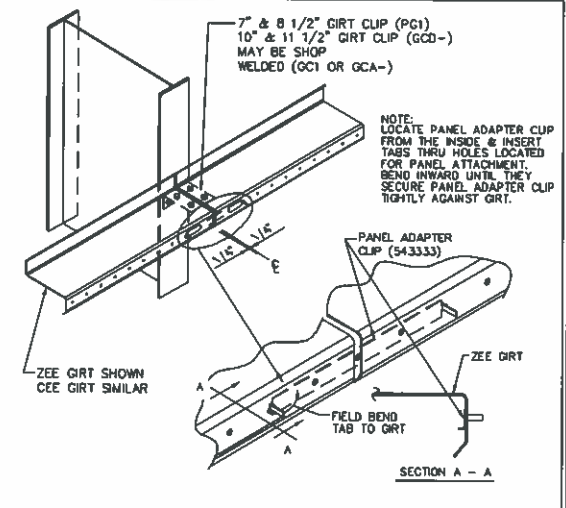
REV. DATE: 01/20/13 REV. NO. 01
ENS1B3 SECONDARY BUNDLE LOCATION KEY ALL SECONDARY DEPTHS



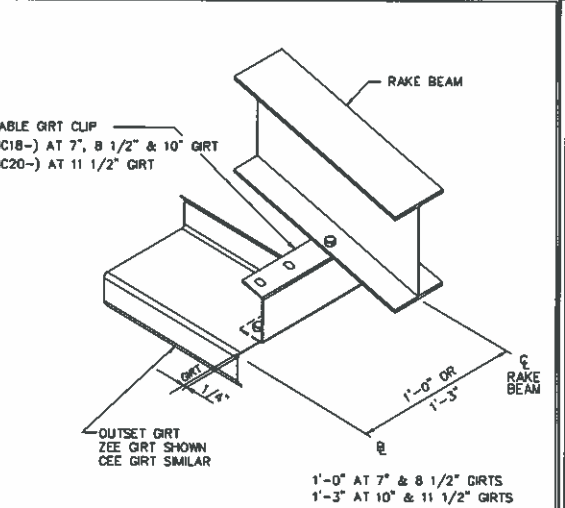
REV. DATE: 07/01/08 REV. NO. 00
EN53F1 PURLIN AND GIRT SIZES 8 1/2" 216mm



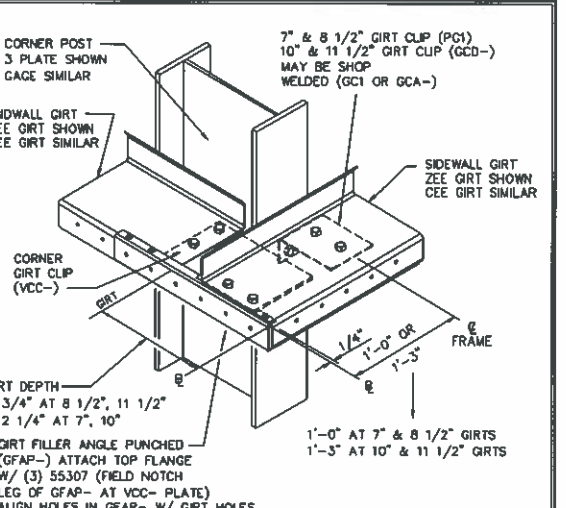
REV. DATE: 01/29/11 REV. NO. 01
WS01G3 GIRT CONN. AT COLUMN OUTSET CONTINUOUS GIRT



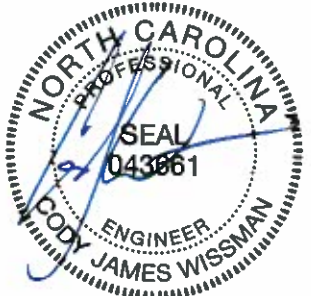
REV. DATE: 07/25/08 REV. NO. 02
WS01Q2 GIRT CONN. AT COLUMN OUTSET SIMPLE GIRTS



REV. DATE: 07/25/08 REV. NO. 01
WS04C2 GABLE GIRT CONN. TO RAKE BEAM OUTSET GIRTS



REV. DATE: 10/04/11 REV. NO. 01
WS12N2 GIRT CONN. AT CORNER POST ANY OUTSET GIRT AT EW, ANY GIRT AT SW



02/12/2018

PERMIT SET- For Building Dept. Approval

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REV	DATE	BY	DESCRIPTION

BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		WALL SECONDARY SED'S	
BUILDER:	Construction Systems Inc	CUSTOMER:	Group Springs Baptist Church
LOCATION:	Spring Lake, North Carolina	PROJECT:	Gourd Springs
BUILDERS PO#:	33-641-001		

BUTLER
 Butler Manufacturing
 VPC VERSION 2017.2c
 A division of BlueScope Buildings North America, Inc.

Covering Schedule

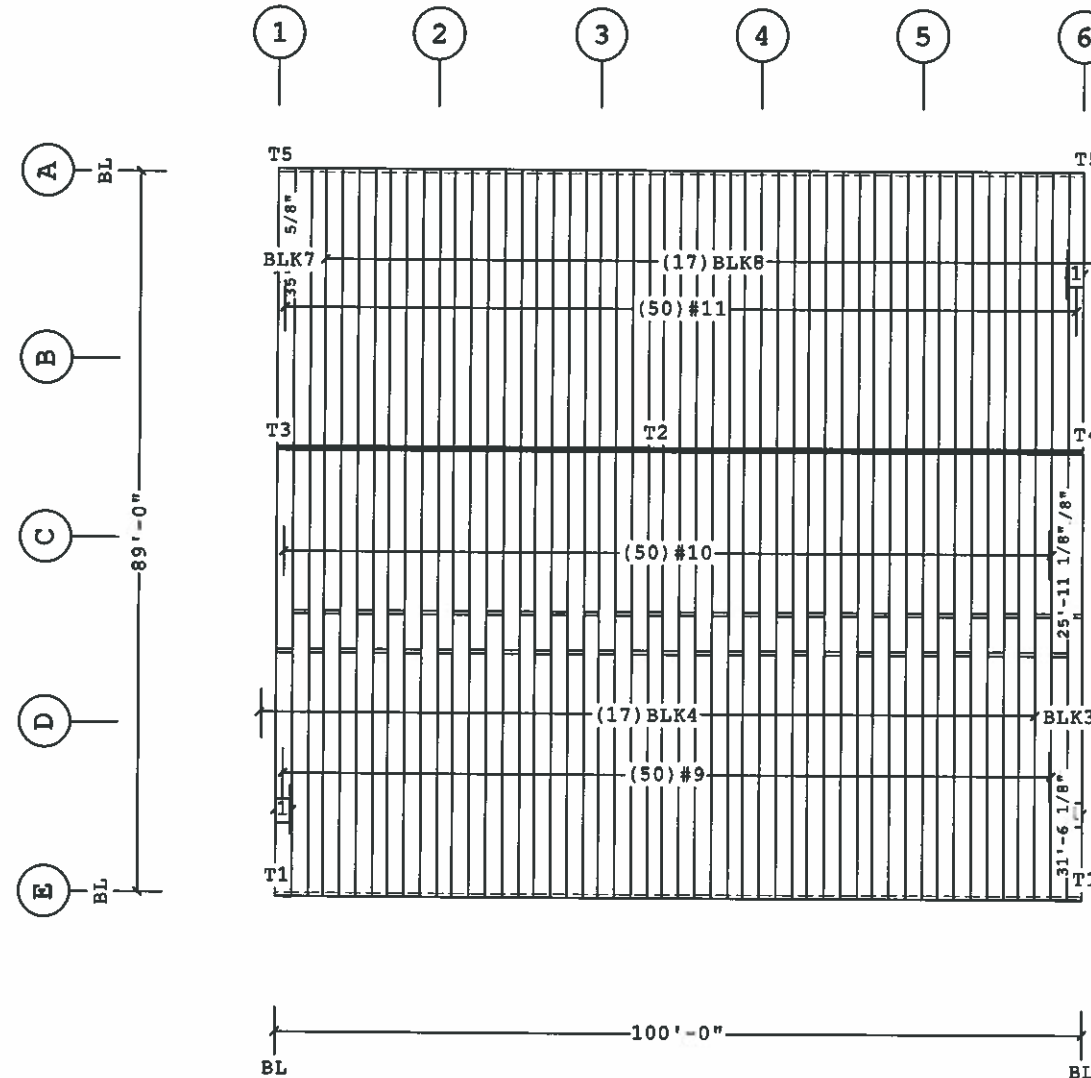
Id	Qty	Start Length	Qty	Stagger Length	Type	Gage	OP	Fin.	Color
#9	25	36'-6 1/8"	25	31'-6 1/8"	MR24	24	13	K	RR
#10	25	20'-11 1/8"	25	25'-11 1/8"	MR24	24	11	K	RR
#11	50	35'-3 5/8"			MR24	24	12	K	RR

Oper. Code:13=SQ,NT
 Oper. Code:11=SQ,SQ
 Oper. Code:12=SQ,SQ
 Finish:K=Butler-Cote
 Color:RR=Cool Brick Red

Trim Schedule

Id	Parts
T1	0630043
T2	(5)RC20
T3	TC1,MRRET,RBT2,(0.1)WA10A,0560173
T4	0560173,TC1,MRRET,RBT2,(0.1)VWA10
T5	0630043

Color	Details
Match Wall Color	
Match Roof Color	ENB004,NV667
Match Wall Color	
Match Wall Color	
Match Wall Color	



ROOF COVERING PLAN

Planograph Schedule

Id	Details
T1	P-080572, P-081236, P-103223, P-104542, P-104714
T2	P-080573, P-080575, P-080578, P-080949, P-ZRSLO
T3	P-081167, P-081243, P-GAI
T4	P-081167, P-081243, P-GAI
T5	P-080572, P-081236, P-103223, P-104542, P-104714

Accessory Schedule

Qty	Color	Description
5	Beige	6070 - 2 Door - Standard (Both Leaves Active)
5	Cool Igloo White	Butlerib II 6070 Walk Door Trim
1	Beige	3070 Door - Standard
1	Cool Igloo White	Butlerib II 3070 PA Walk Door Trim

Dimension Key



02/12/2018

PERMIT SET- For Building Dept. Approval

Shape Name = New multi purpose

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.	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. 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.	B BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102	ROOF COVERING PLAN	
				BUILDER: Construction Systems Inc CUSTOMER: Group Springs Baptist Church LOCATION: Spring Lake, North Carolina PROJECT: Gourd Springs BUILDERS PO#: 33-641-001	BUTLER Butler Manufacturing VPC VERSION 2017.2c

Covering Schedule

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Increment	Direction
#1	11	BRP	24'-8 5/8"	26	37	K	IG	9"	Left to Right
#2	1	BRP	32'-5 5/8"	26	37	K	IG		Left to Right
#3	18	BRP	31'-11 5/8"	26	37	K	IG	-9"	Left to Right

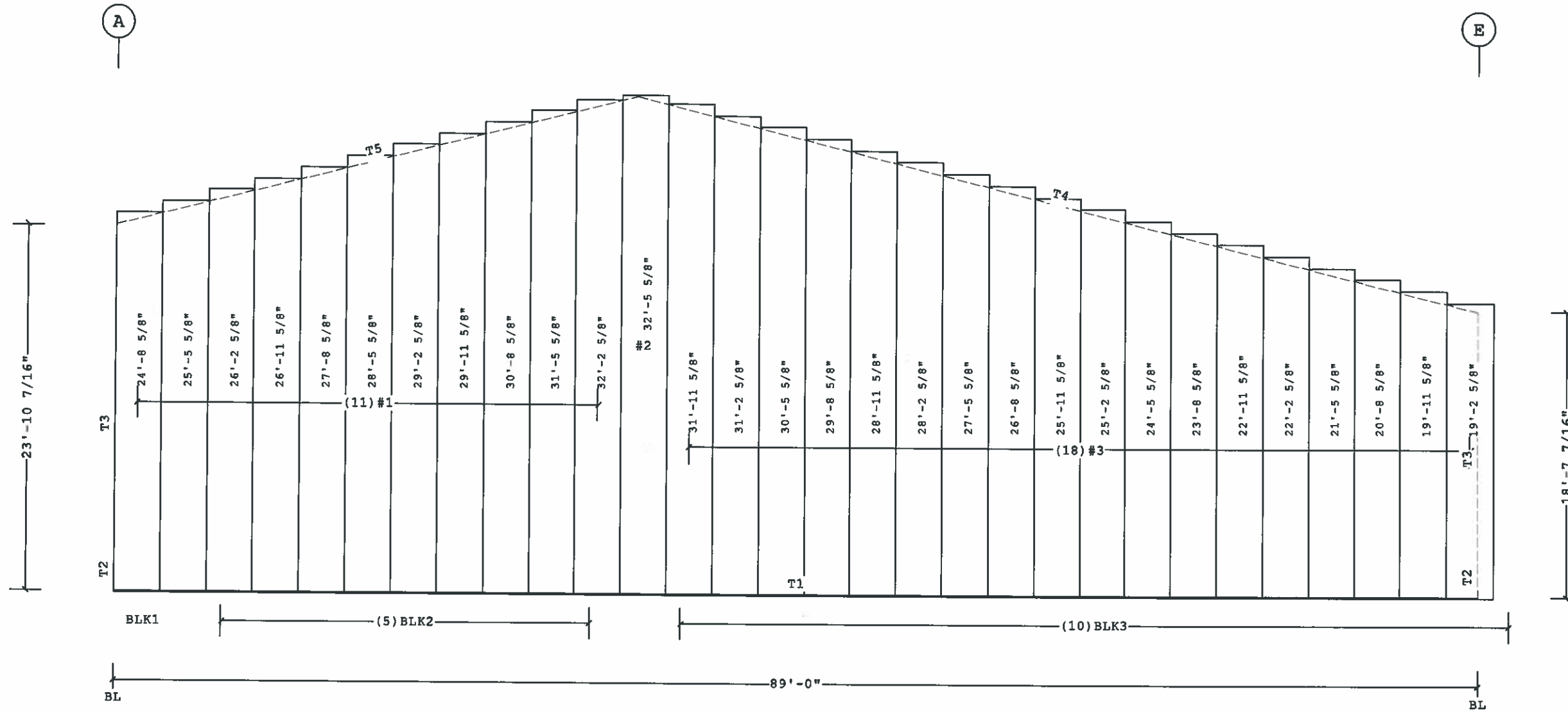
Oper. Code: 37=SQ, SQ

Finish: K=Butler-Cote

Color: IG=Cool Igloo White

Trim Schedule

Id	Parts	Color	Details
T1	(3.6)BA225, (7.4)BT12A	Cool Igloo White	ENB003, GV383, NV663, WCB036, WCB038
T2	BRCT12	Cool Igloo White	WCB037, WCB079
T3	(2)BRCT12	Cool Igloo White	WCB037, WCB040
T4	(5.6)BRCL10A, (2.8)MRGT20R, (5.6)WA10A	Cool Igloo White	KV397, KV398, PV166, WCB044, WCB055
T5	(3.5)BRCL10A, (1.7)MRGT20L, (3.4)WA10A	Cool Igloo White	KV397, KV398, PV166, WCB044, WCB055



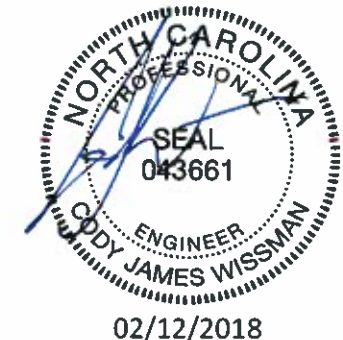
COVERING ELEVATION AT 1

Planograph Schedule

Id	Details
T1	P-080873, P-081505, P-081612
T2	
T3	P-081612
T4	P-081167, P-GAI
T5	P-081167, P-GAI

Fastener Schedule

Part	Description
0097364-100	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer



PERMIT SET- For Building Dept. Approval

Shape Name = New multi purpose, 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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 4. SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION.

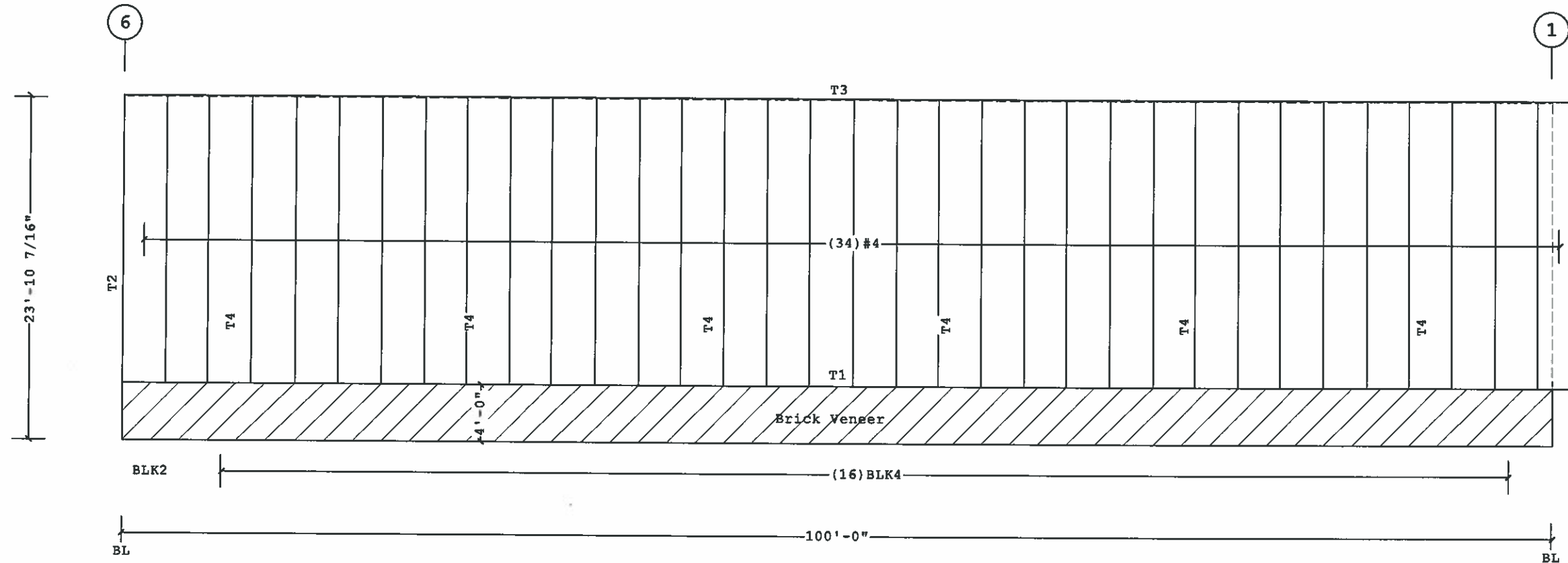
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B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		COVERING ELEVATION AT 1	
	REV	DATE	BY	DESCRIPTION
BUILDER: Construction Systems Inc		CUSTOMER: Group Springs Baptist Church		JOB # 17-027944-01 DATE 02/09/2018 DRAWN BY JG / SI PAGE 22
LOCATION: Spring Lake, North Carolina		PROJECT: Gourd Springs		
DRAWING SCALE: NTS		BUTLER MFG. VPC VERSION 2017.2c		
BUILDER'S PO# 33-641-001		BUTLER MFG. VPC VERSION 2017.2c		

Covering Schedule
 Id Qty Type Start Length Gage OP Fin. Color Direction
 #4 34 BRP 20'-0 1/4" 26 37 K IG Left to Right
 Oper. Code:37=SQ,SQ
 Finish:K=Butler=Cote
 Color:IG=Cool Igloo White

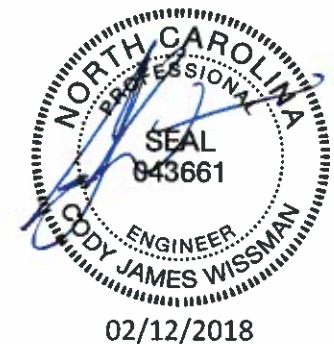
Trim Schedule
 Id Parts Color Details
 T1 (4)BA225, (8.3)BT12A Cool Igloo White ENB003, GV383, NV663, WCB036, WCB038
 T2 (2)BRCT12 Cool Igloo White WCB037, WCB040
 T3 (9)CLE1A, (4)GTR25 Cool Igloo White MV235, WCB050
 T4 0640492, (2.5)CP410, 4CB75 Cool Igloo White KV851



COVERING ELEVATION AT A

Planograph Schedule
 Id Details
 T1 P-080873, P-081505, P-081612
 T2 P-081612
 T3 P-103223, P-103315, P-104714
 T4 P-105224, P-105225, P-105228

Fastener Schedule
 Part Description
 0097364-100 (T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer
 0097364STD (T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer



PERMIT SET- For Building Dept. Approval

Shape Name = New multi purpose, Wall = 2

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.
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REV	DATE	BY	DESCRIPTION	BUILDER	Construction Systems Inc	JOB #	17-027944-01
				CUSTOMER	Group Springs Baptist Church		DATE
DRAWING SCALE				LOCATION	Spring Lake, North Carolina	DRAWN/CHECK	JG / SI
NTS				PROJECT	Gourd Springs		PAGE
BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102				BUILDERS PO#	33-641-001	BUTLER Butler Manufacturing VPC VERSION 2017.2c	

Covering Schedule

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Increment	Direction
#5	18	BRP	15'-5 5/8"	26	37	K	IG	9"	Left to Right
#6	1	BRP	28'-5 5/8"	26	37	K	IG		Left to Right
#7	11	BRP	27'-11 5/8"	26	37	K	IG	-9"	Left to Right

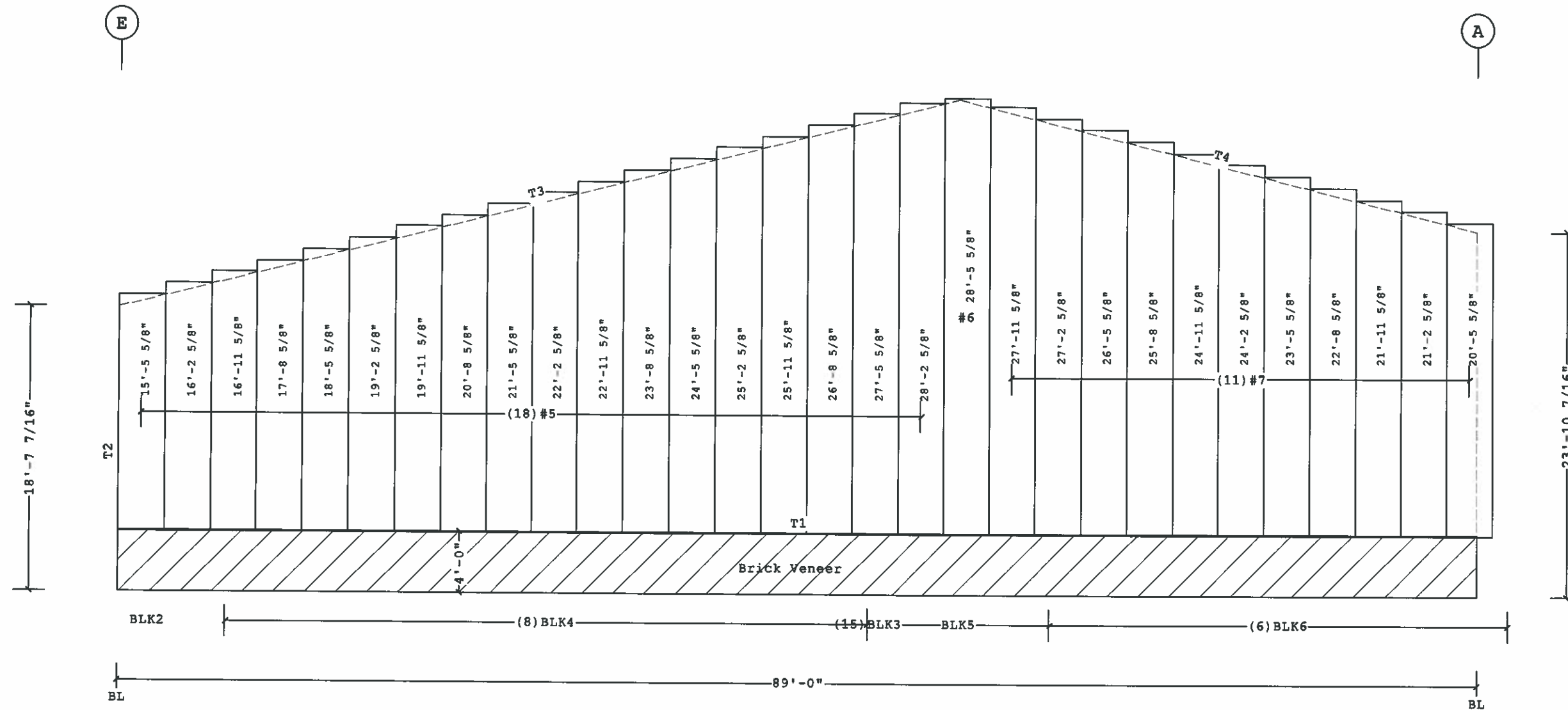
Oper. Code:37=SQ,SQ

Finish:K=Butler-Cote

Color:IG=Cool Igloo White

Trim Schedule

Id	Parts	Color	Details
T1	(3.6)BA225, (7.4)BT12A	Cool Igloo White	ENB003, GV383, NV663, WCB036, WCB038
T2	(2)BRCT12	Cool Igloo White	WCB037, WCB040
T3	(5.6)BRCL10A, (2.8)MRGT20L, (5.6)WA10A	Cool Igloo White	KV397, KV398, PV166, WCB044, WCB055
T4	(3.5)BRCL10A, (1.7)MRGT20R, (3.4)WA10A	Cool Igloo White	KV397, KV398, PV166, WCB044, WCB055



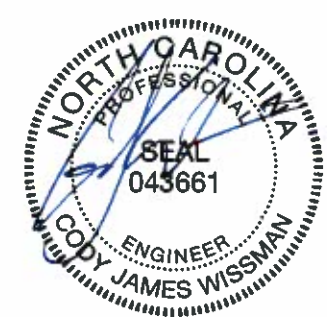
Planograph Schedule

Id	Details
T1	P-080873, P-081505, P-081612
T2	P-081612
T3	P-081167, P-GAI
T4	P-081167, P-GAI

Fastener Schedule

Part	Description
0097364-100	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer

COVERING ELEVATION AT 6



02/12/2018

PERMIT SET- For Building Dept. Approval

Shape Name = New multi purpose, Wall = 3

<p>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</p> <p>2. STEEL PANELS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.</p> <p>3. DUE TO MANUFACTURING LIMITATIONS SHORT PANELS MAY REQUIRE FIELD CUTTING. SEE THE COVERING SCHEDULE FOR CUT LENGTHS.</p> <p>4. SEE JOB DETAILS FOR COVERING AND TRIM FASTENER SPECIFICATION.</p>	<p>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.</p>	<p>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.</p> <p>THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN ACCORDANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE BUTLER MFG. ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.</p>	<p>B</p> <p>BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102</p>	<p>COVERING ELEVATION AT 6</p>	
				<p>REV</p> <p>DATE</p> <p>BY</p> <p>DESCRIPTION</p>	<p>BUILDER: Construction Systems Inc</p> <p>CUSTOMER: Group Springs Baptist Church</p> <p>LOCATION: Spring Lake, North Carolina</p> <p>PROJECT: Gourd Springs</p> <p>BUILDERS PDM: 33-641-001</p>

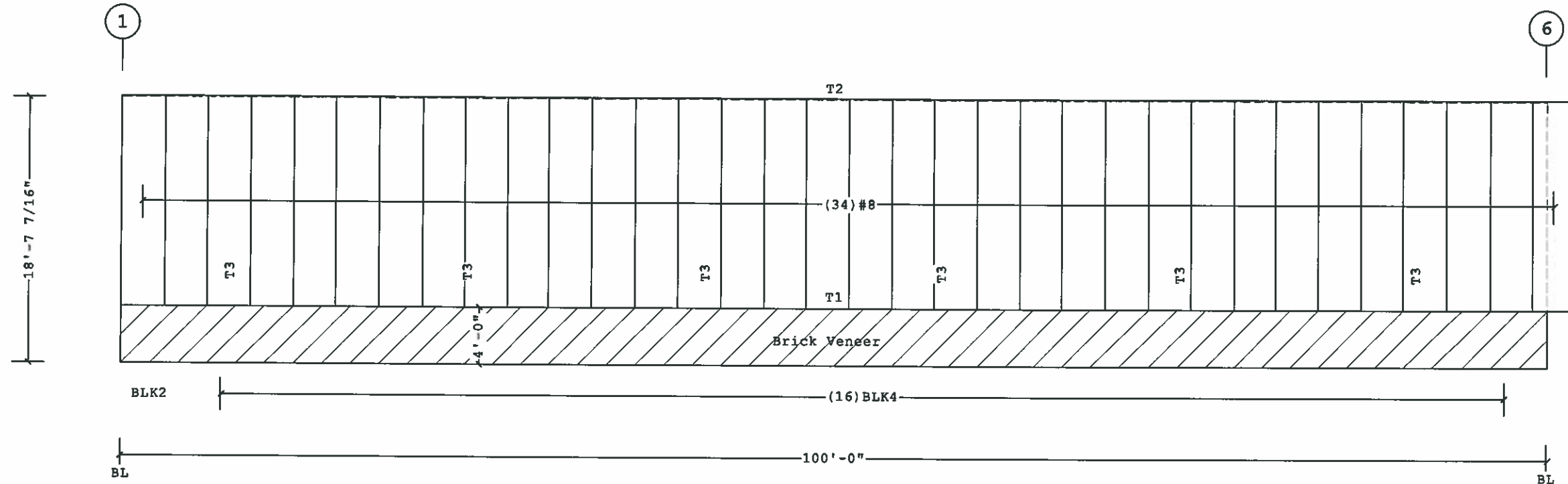
Covering Schedule

Id	Qty	Type	Start Length	Gage	OP	Fin.	Color	Direction
#8	34	BRP	14'-9 1/4"	26	37	K	IG	Left to Right

Oper. Code: 37=SQ, SQ
 Finish: K=Butler-Cote
 Color: IG=Cool Igloo White

Trim Schedule

Id	Parts	Color	Details
T1	(4) BA225, (8.3) BT12A	Cool Igloo White	ENB003, GV383, NV663, WCB036, WCB038
T2	(9) CLE1A, (4) GTR25	Cool Igloo White	MV235, WCB050
T3	0640492, (2) CP410, 4CE75	Cool Igloo White	KV851



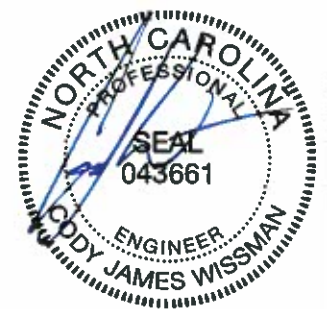
COVERING ELEVATION AT E

Planograph Schedule

Id	Details
T1	P-080873, P-081505, P-081612
T2	P-103223, P-103315, P-104714
T3	P-105224, P-105225, P-105228

Fastener Schedule

Part	Description
0097364STD	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer
0097364-100	(T-1) 1/4-14 x 3/4", T-30 Torx Hd w/Washer



02/12/2018

PERMIT SET- For Building Dept. Approval

Shape Name = New multi purpose, Wall = 4

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REV	DATE	BY	DESCRIPTION
B			

BUTLER MANUFACTURING
 1540 GENESSEE ST. KANSAS CITY, MO 64102

DRAWING SCALE: NTS

COVERING ELEVATION AT E	
BUILDER: Construction Systems Inc	JOB #: 17-027944-01
CUSTOMER: Group Springs Baptist Church	DATE: 02/09/2018
LOCATION: Spring Lake, North Carolina	DRAWN/CHECK: JG / SI
PROJECT: Gourd Springs	PAGE: 25
BUILDERS PO #: 33-641-001	

BUTLER
 Butler Manufacturing
 VPC VERSION 2017.2c

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 O
 * 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 V V
 ** F F F I I I I I I E C C
 LENGTH WIDTH THK CODE

SECONDARY (STANDARD)
 O 8 2 1 9 1 1 4 1 7
 * F F I I E G G * * * * *
 DEPTH LENGTH GAGE ADJUST CODES
 SHAPE

SECONDARY (SPECIAL)
 O 0 1 0 8 2 1 9 1 1 4 1 7
 * * * * * F F I I E G G * * * * *
 COUNTER DEPTH LENGTH GAGE ADJUST CODES
 SHAPE

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

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

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

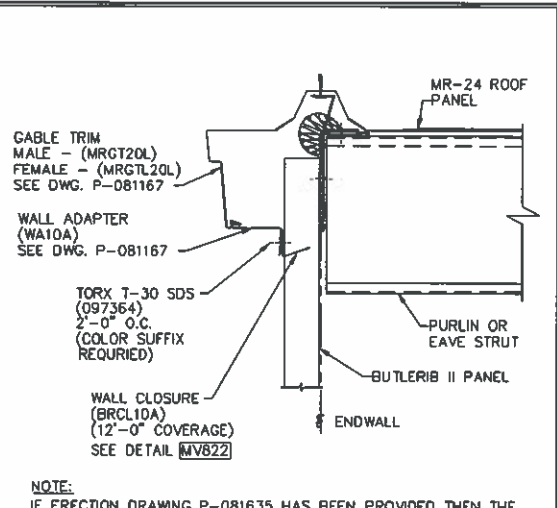
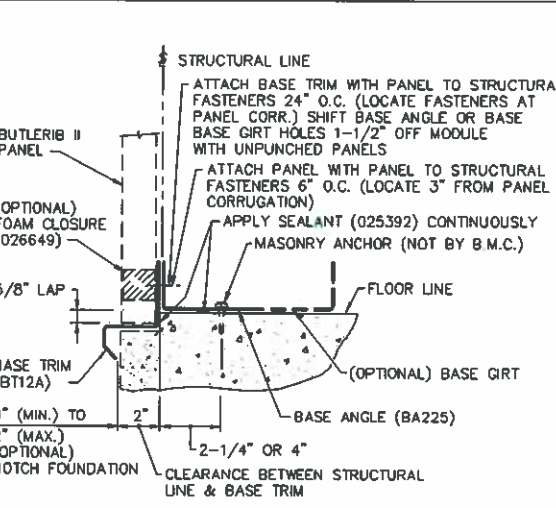
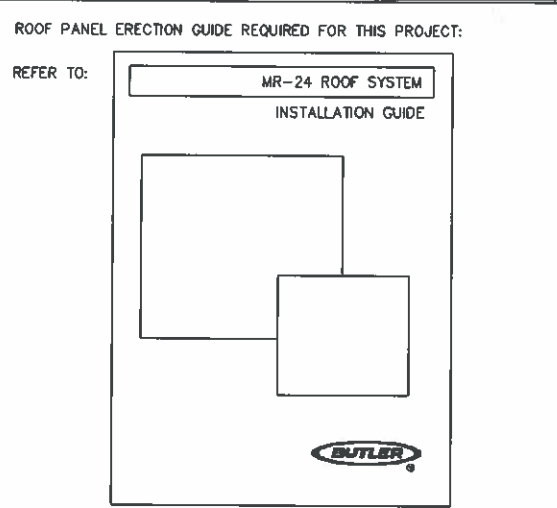
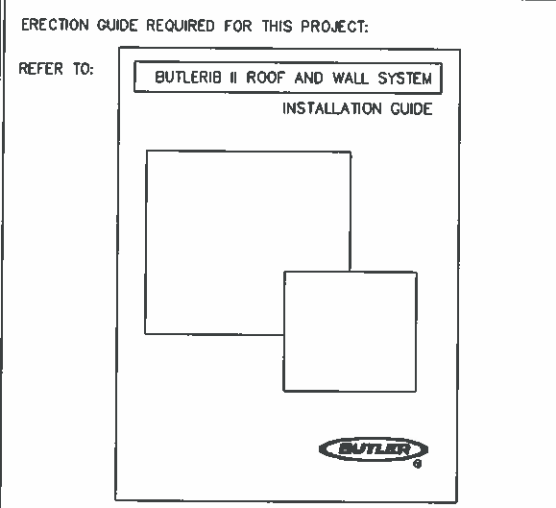
RBX*** = RAFTER (PLATE)
 BGX*** = RAFTER (GAGE)
 WRX*** = RAFTER (HOTROLL)
 TRX*** = TRUSS RAFTER

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

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

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

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



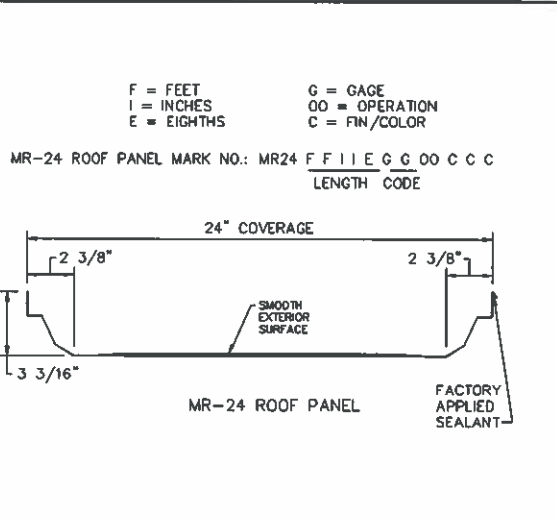
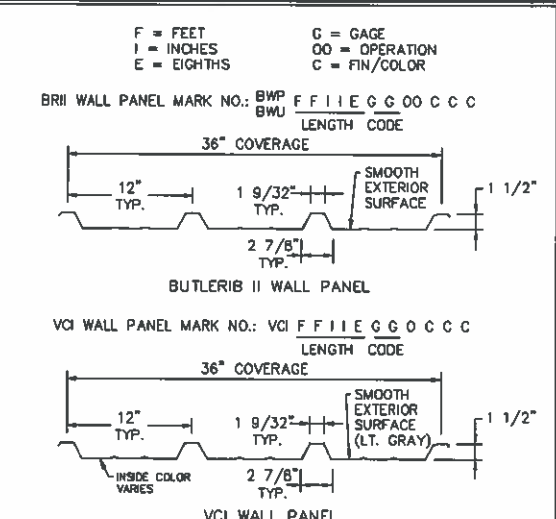
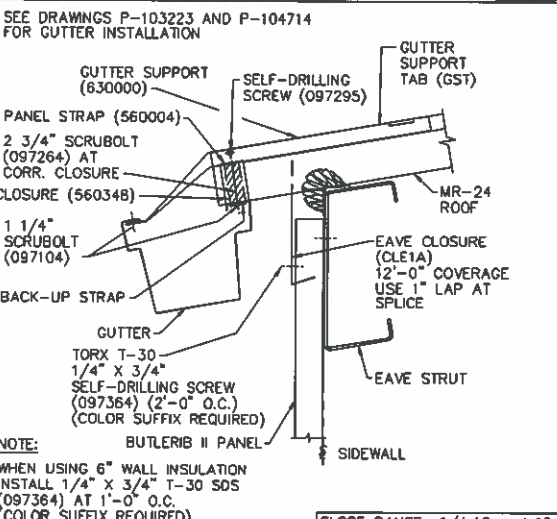
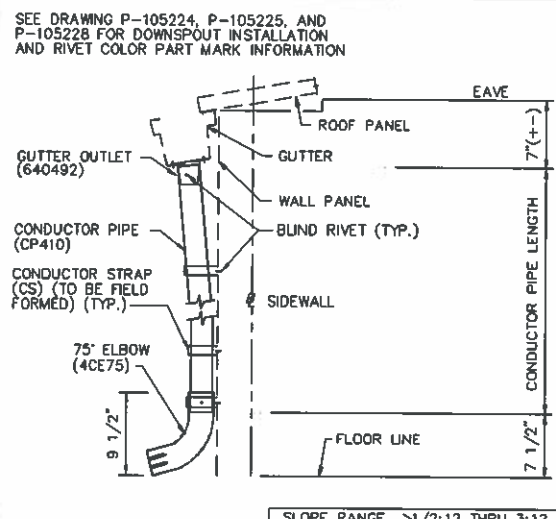
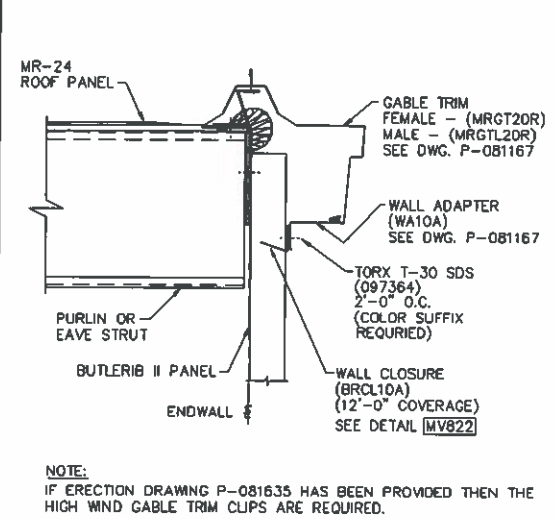
REV. DATE: 08/29/12 REV. NO. 01
 EN50B1 MARK NUMBER KEY
 COMMON GENERATED MARK NUMBERS

REV. DATE: 01/20/14 REV. NO. 00
 ENB003 BUTLER II ROOF AND WALL SYSTEM

REV. DATE: 01/20/14 REV. NO. 00
 ENB004 MR-24 ROOF SYSTEM

REV. DATE: 01/14/10 REV. NO. 00
 GV383 BUTLER II - BASE TRIM INSTALLATION LAPPED & NOTCHED FOUNDATION AT FLOOR LINE

REV. DATE: 03/06/17 REV. NO. 03
 KV397 GABLE TRIM LEFT WITH MR-24 ROOF BUTLER II WALL PANEL WITH CLOSURE (>1:12<-3:12)



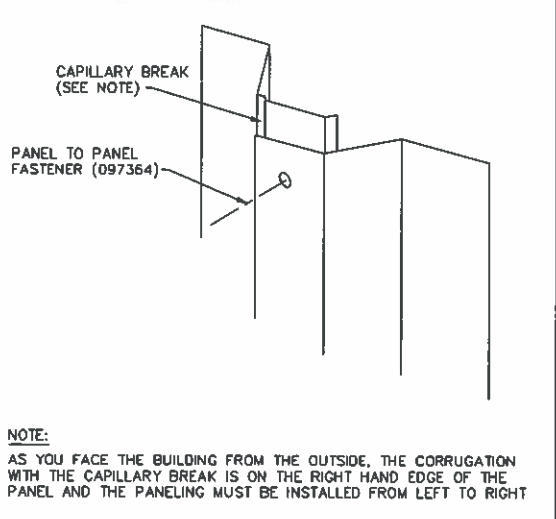
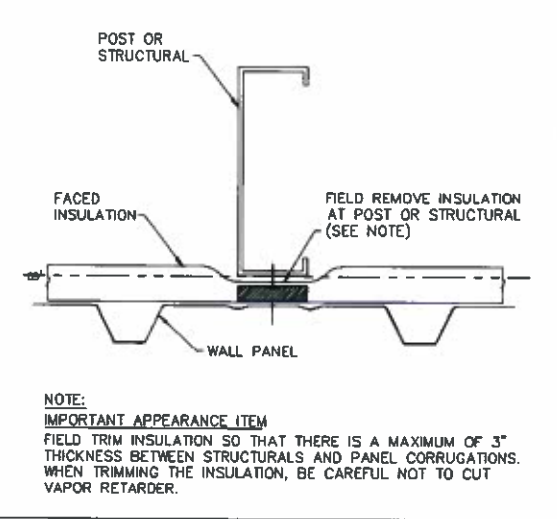
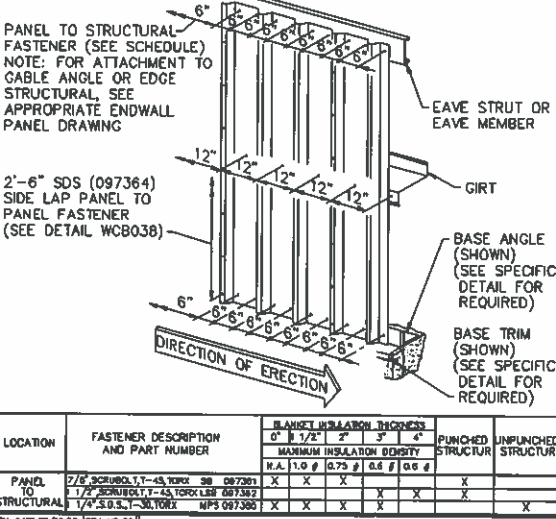
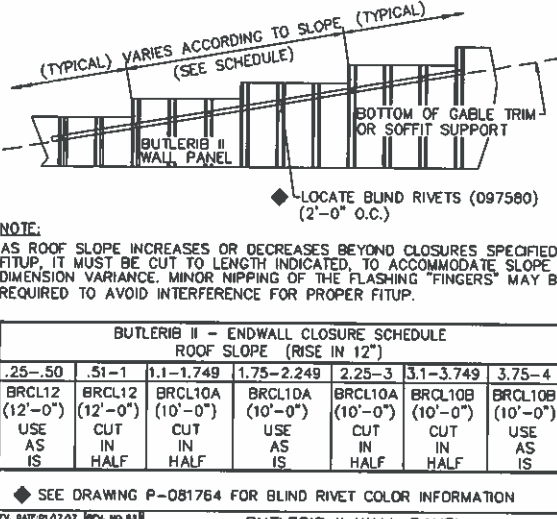
REV. DATE: 03/06/17 REV. NO. 04
 KV398 GABLE TRIM RIGHT WITH MR-24 ROOF BUTLER II WALL PANEL WITH CLOSURE (>1:12<-3:12)

REV. DATE: 01/23/14 REV. NO. 02
 KV851 4 INCH DOWNSPOUT AT WALL BUTLER II AND SHADOW WALL

REV. DATE: 12/04/10 REV. NO. 02
 MV235 GUTTER WITH WITHR. SEAL WITH MR-24 ROOF BRII WALL PANEL WITHOUT WALL CLSR

REV. DATE: 04/14/11 REV. NO. 01
 NV663 BUTLER II WALL AND VCI WALL PANELS

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



NORTH CAROLINA PROFESSIONAL SEAL
 043661
 COPY ENGINEER
 JAMES WISSMAN
 02/12/2018

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REV. DATE: 01/17/17 REV. NO. 03
 PV166 BUTLER II WALL PANEL ENDWALL CLOSURE SCHEDULE

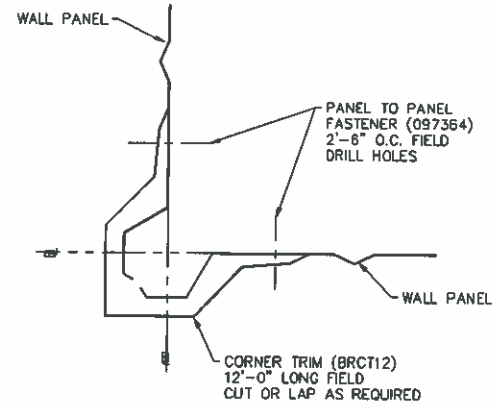
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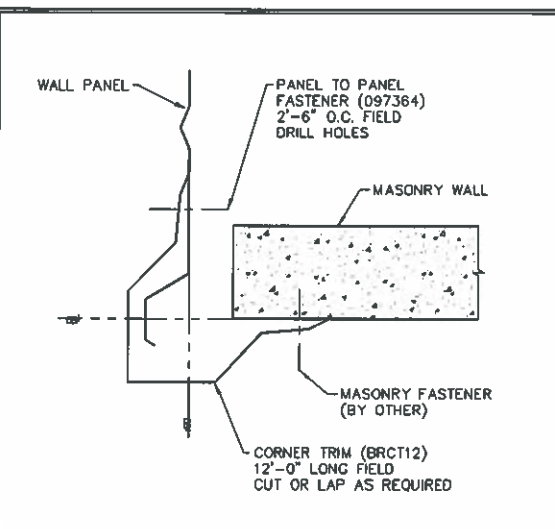
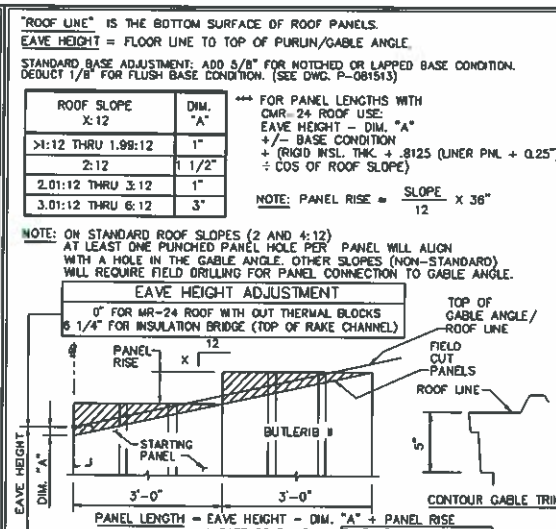
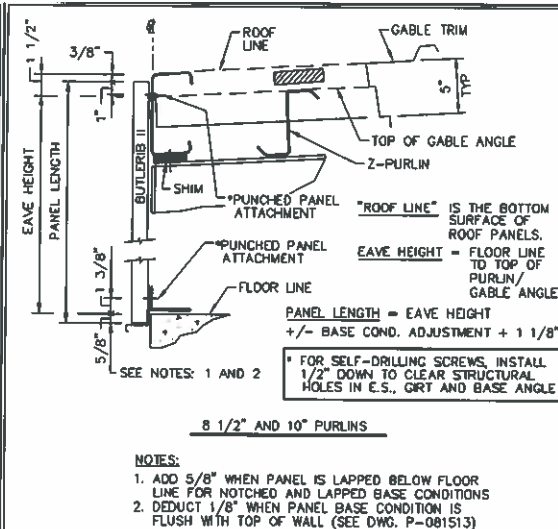
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REV. DATE: 07/26/17 REV. NO. 03
 WCB037 3 1/2" AND 4" INSULATION FOR BRII WALL AT ENDWALL POST OR STRUCTURAL

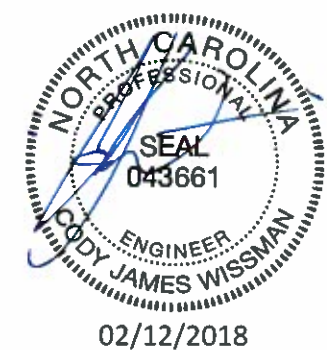
REV. DATE: 04/26/17 REV. NO. 00
 WCB038 SIDELAP FOR BUTLER II WALL PANEL



PANEL LOCATION	ROOF SYSTEM	WALL PANEL OPERATION CODES			
		(BWP) PUNCHED	(BWU) UNPUNCHED		
ENDWALL	ALL ROOFS	1/4:12 AND 1/2:12	37	ALL SLOPES (SQ)	35
		1:12	38		
		2:12	76		
		4:12	34		
		OTHER SLOPES	37		
ENDWALL HEADER	ALL ROOFS	1/4:12 AND 1/2:12	36	ALL SLOPES (SQ)	35
		1:12	40		
		2:12	77		
		4:12	39		
		OTHER SLOPES	36		
LOW/HIGH SIDEWALL	BR II	1/4:12 TO 2.99	(MT) BB	1/4:12 TO 2.99	(MT) EE
		3:12 TO 4:12	(MT) AA	3:12 TO 4:12	(MT) FF
		MR-24 CMR-24	(SQ) J7		(SQ) 35
		1/4:12 TO 2.99	(MT) DD	1/4:12 TO 2.99	(MT) EE
LOW/HIGH SIDEWALL HEADER	BR II	3:12 TO 4:12	(MT) CC	3:12 TO 4:12	(MT) FF
		MR-24 CMR-24			(SQ) 35
		1/4:12 TO 2.99	(MT) DD	1/4:12 TO 2.99	(MT) EE
		3:12 TO 4:12	(MT) CC	3:12 TO 4:12	(MT) FF



REV. DATE: 04/25/17 REV. NO. 00 WCB040	OUTSIDE CORNER TRIM BUTLERIB II WALL	REV. DATE: 08/16/17 REV. NO. 00 WCB044	BUTLERIB II WALL PANEL SCHEDULE ENDWALL AND SIDEWALL PANELS (SQUARED/MITERED)	REV. DATE: 08/16/17 REV. NO. 00 WCB050	BRII SQ CUT SW PANEL WITH MR-24 ROOF 2:12 TO 4:12 SLOPES WITH SHIMS - WITH THERMAL BLK	REV. DATE: 08/16/17 REV. NO. 00 WCB055	BUTLERIB II ENDWALL STARTER PANEL MITER CUT FOR SLOPES >1:12 THRU 6:12	REV. DATE: 07/28/17 REV. NO. 00 WCB079	OUTSIDE CORNER TRIM BRII WALL TO MASONRY
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B	BUTLER MANUFACTURING 1540 GENESSEE ST. KANSAS CITY, MO 64102		
	REV.	DATE	BY
DRAWING SCALE			NTS

COVERING & TRIM SED'S			BUTLER BUTLER MANUFACTURING VPC VERSION 2017.2c
BUILDER	Construction Systems Inc		
CUSTOMER	Group Springs Baptist Church		BUTLER BUTLER MANUFACTURING VPC VERSION 2017.2c
LOCATION	Spring Lake, North Carolina		
PROJECT	Gourd Springs		BUTLER BUTLER MANUFACTURING VPC VERSION 2017.2c
BUILDERS PDF	33-641-001		
		JOB #	17-027944-01
		DATE	02/09/2018
		DRAWN/CHECKED	JG / SI
		PAGE	27