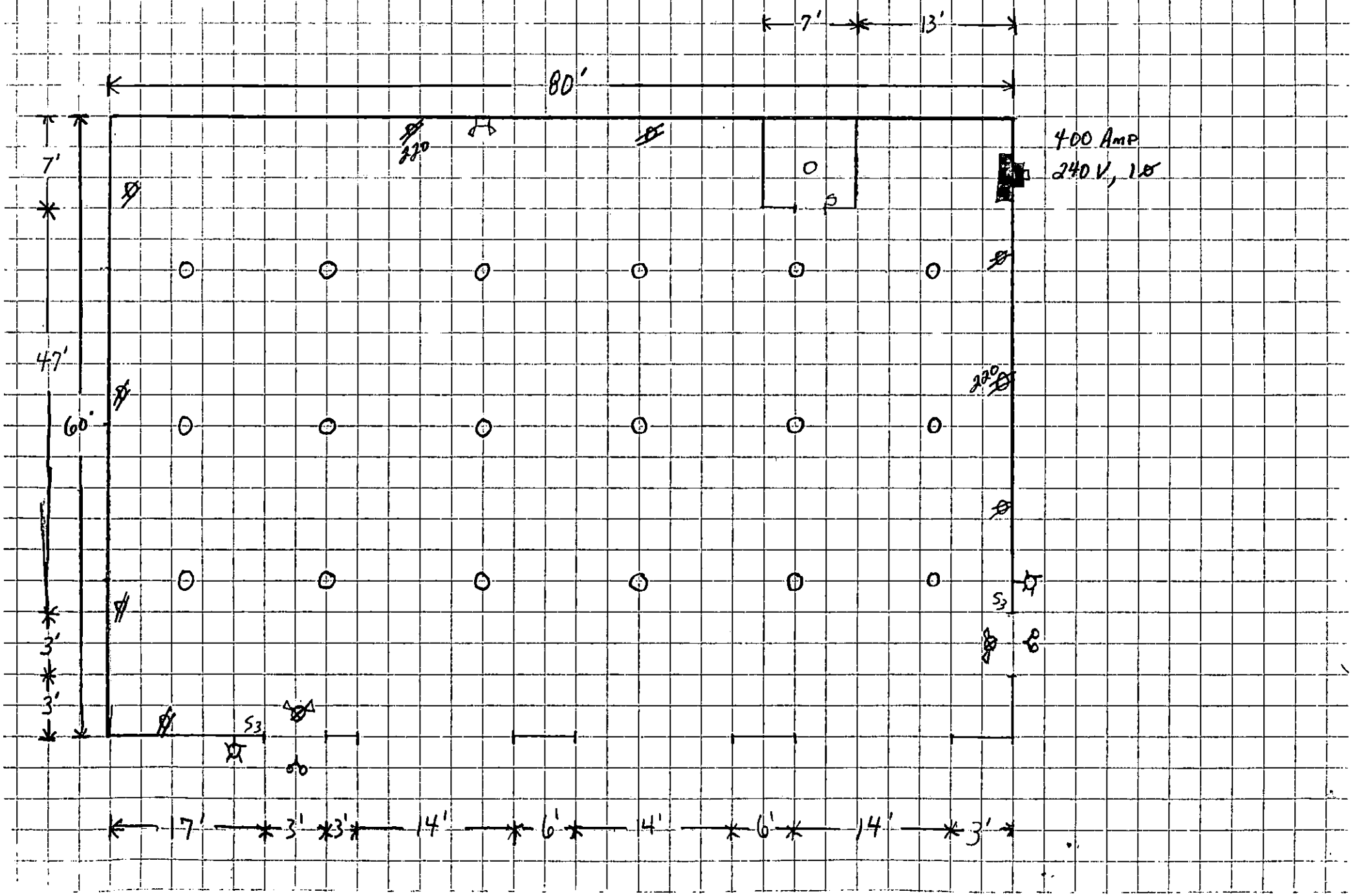
Life Safety Plan



2012 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Britton Portable Welding
Address: 425 Royal Pines Ln, Lillington NC Zip Code 27546
Proposed Use: Shop
Owner/Authorized Agent: Josh Britton Phone # (919) 625 - 9176 E-Mail brittonportablewelding@yahoo.com
Owned By: ☐ City/County ☒ Private ☐ State
Code Enforcement Jurisdiction: ☐ City _____ ☐ County _____ ☐ State

LEAD DESIGN PROFESSIONAL: _____

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Pre Engineered : Heritage Bldg. Systems		033305	(800) 643-5555	
Civil	n/a			( )	
Electrical	Pioneer Electric			( )	
Fire Alarm	n/a			( )	
Plumbing	Josh Britton			( )	
Mechanical	n/a			( )	
Sprinkler-Standpipe	n/a			( )	
Structural	Josh Britton			( )	
Retaining Walls >5' High	n/a			( )	
Other	Foundation David Miller	15845		(919) 422-8932	

2012 EDITION OF NC CODE FOR: ☒ New Construction ☐ Addition ☐ Upfit
EXISTING: ☐ Reconstruction ☐ Alteration ☐ Repair ☐ Renovation
CONSTRUCTED: (date) _____ **ORIGINAL USE(S)** (Ch. 3): _____
RENOVATED: (date) _____ **CURRENT USE(S)** (Ch. 3): _____
PROPOSED USE(S) (Ch. 3): _____

BASIC BUILDING DATA
Construction Type: (check all that apply) ☐ I-A ☐ I-B ☐ II-A ☐ II-B ☐ III-A ☐ III-B ☐ IV ☐ V-A ☐ V-B
Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☐ No ☒ Yes (Primary) **Flood Hazard Area:** ☒ No ☐ Yes
Building Height: (feet) 20
Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
6th Floor			
5th Floor			
4th Floor			
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor		4800	4800
Basement			
TOTAL	4800		

ALLOWABLE AREA

Occupancy:

Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☑ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancies:

Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☑ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Incidental Uses (Table 508.2.5):

☐ Furnace room where any piece of equipment is over 400,000 Btu per hour input
☐ Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower
☐ Refrigerant machine room
☐ Hydrogen cutoff rooms, not classified as Group H
☐ Incinerator rooms
☐ Paint shops, not classified as Group H, located in occupancies other than Group F
☐ Laboratories and vocational shops, not classified as Group H. located in a Group E or I-2 occupancy
☐ Laundry rooms over 100 square feet
☐ Group I-3 cells equipped with padded surfaces
☐ Group I-2 waste and linen collection rooms
☐ Waste and linen collection rooms over 100 square feet
☐ Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies
☐ Rooms containing fire pumps
☐ Group I-2 storage rooms over 100 square feet
☐ Group I-2 commercial kitchens
☐ Group I-2 laundries equal to or less than 100 square feet
☐ Group I-2 rooms or spaces that contain fuel-fired heating equipment

Special Uses: ☐ 402 ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408 ☐ 409 ☐ 410 ☐ 411 ☐ 412
☐ 413 ☐ 414 ☐ 415 ☐ 416 ☐ 417 ☐ 418 ☐ 419 ☐ 420 ☐ 421 ☐ 422 ☐ 423 ☐ 424
☐ 425 ☐ 426 ☐ 427

Special Provisions: ☐ 509.2 ☐ 509.3 ☐ 509.4 ☐ 509.5 ☐ 509.6 ☐ 509.7 ☐ 509.8 ☐ 509.9

Mixed Occupancy: ☑ No ☐ Yes Separation: _____ Hr. Exception: _____

☐ Incidental Use Separation (508.2.5)

This separation is not exempt as a Non-Separated Use (see exceptions).

☐ Non-Separated Use (508.3)

The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Use (508.4) - See below for area calculations

For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\textit{Actual Area of Occupancy A}}{\textit{Allowable Area of Occupancy A}} + \frac{\textit{Actual Area of Occupancy B}}{\textit{Allowable Area of Occupancy B}} \leq 1$$

_____ + _____ + ... = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503[5] AREA	(C) AREA FOR FRONTAGE INCREASE[1]	(D) AREA FOR SPRINKLER INCREASE[2]	(E) ALLOWABLE AREA OR UNLIMITED[3]	(F) MAXIMUM BUILDING AREA[4]

[1] Frontage area increases from Section 506.2 are computed thus:

a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase $I_f = 100 [F/P - 0.25] \times W/30$ = _____ (%)

[2] The sprinkler increase per Section 506.3 is as follows:

a. Multi-story building I_s = 200 percent
b. Single story building I_s = 300 percent

[3] Unlimited area applicable under conditions of Section 507.

[4] Maximum Building Area = total number of stories in the building x E (506.4).

[5] The maximum area of open parking garages must comply with Table 406.3.5. The maximum area of air traffic control towers must comply with Table 412.1.2.

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Type _____		Type _____	
Building Height in Feet		Feet = H + 20' = _____		
Building Height in Stories		Stories + 1 = _____		

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/_____* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction Including supporting beams and joists							
Roof Construction Including supporting beams and joists							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Tenant Separation							
Incidental Use Separation							

* Indicate section number permitting reduction

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☑ No ☐ Yes
Exit Signs: ☐ No ☑ Yes
Fire Alarm: ☑ No ☐ Yes
Smoke Detection Systems: ☑ No ☐ Yes ☐ Partial _____
Panic Hardware: ☑ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: see drawing

☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations

- ☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
- ☐ Existing structures within 30' of the proposed building
- ☐ Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1)
- ☐ Occupant loads for each area
- ☐ Exit access travel distances (1016)
- ☐ Common path of travel distances (1014.3 & 1028.8)
- ☐ Dead end lengths (1018.4)
- ☐ Clear exit widths for each exit door
- ☐ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.1)
- ☐ Actual occupant load for each exit door
- ☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
- ☐ Location of doors with panic hardware (1008.1.10)
- ☐ Location of doors with delayed egress locks and the amount of delay (1008.1.9.7)
- ☐ Location of doors with electromagnetic egress locks (1008.1.9.8)
- ☐ Location of doors equipped with hold-open devices
- ☐ Location of emergency escape windows (1029)
- ☐ The square footage of each fire area (902)
- ☐ The square footage of each smoke compartment (407.4)
- ☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
60'x18'		5	1 (H)			6
TOTAL						

STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors:
Wind (I_W) 120 MPH
Snow (I_S) 20. PSF
Seismic (I_E) 1.00

Live Loads:
Roof 12/20.00 psf
Mezzanine _____ psf
Floor _____ psf

Ground Snow Load: 20 psf

Wind Load: Basic Wind Speed 93 mph (ASCE-7)
Exposure Category B
Wind Base Shears (for MWFRS) Vx = _____ Vy = _____

SEISMIC DESIGN CATEGORY: ☐ A ☐ B ☑ C ☐ D

Provide the following Seismic Design Parameters:

Occupancy Category (Table 1604.5) ☐ I ☐ II ☐ III ☐ IV

Spectral Response Acceleration S_S 0.1050 %g S_1 0.0870 %g

Site Classification (Table 1613.5.2) ☐ A ☐ B ☐ C ☑ D ☐ E ☐ F

Data Source: ☐ Field Test ☐ Presumptive ☐ Historical Data

Basic structural system (check one)

☐ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum

Seismic base shear: V_X = _____ V_Y = _____

Analysis Procedure: ☐ Simplified ☑ Equivalent Lateral Force ☐ Dynamic

Architectural, Mechanical, Components anchored? ☑ Yes ☐ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☐

SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) _____ psf
Presumptive Bearing capacity _____ psf
Pile size, type, and capacity _____

SPECIAL INSPECTIONS REQUIRED: ☐ Yes ☑ No

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

1 - 1/2 bath

USE		WATERCLOSETS		URINALS	LAVATORIES		SHOWERS/ TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE		MALE	FEMALE		REGULAR	ACCESSIBLE
SPACE	EXISTING								
	NEW								
	REQUIRED								

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

_____

_____

_____

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Climate Zone: ☐ 3 ☐ 4 ☐ 5

Method of Compliance:

- ☐ Prescriptive (Energy Code)
- ☐ Performance (Energy Code)
- ☐ Prescriptive (ASHRAE 90.1)
- ☐ Performance (ASHRAE 90.1)

THERMAL ENVELOPE

Roof/ceiling Assembly (each assembly)

Description of assembly: Insulation | Tin
U-Value of total assembly: _____
R-Value of insulation: _____
Skylights in each assembly: n/a
U-Value of skylight: n/a
total square footage of skylights in each assembly: n/a

Exterior Walls (each assembly)

Description of assembly: Tin
U-Value of total assembly: _____
R-Value of insulation: n/a
Openings (windows or doors with glazing) n/a
U-Value of assembly: _____
Solar heat gain coefficient: _____
projection factor: _____
Door R-Values: _____

Walls below grade (each assembly)

Description of assembly: n/a
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly) n/a

Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade

Description of assembly: Per Engineered Foundation Plan
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
slab heated: n/a

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone n/a

winter dry bulb: _____
summer dry bulb: _____

Interior design conditions n/a

winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____

Building heating load: n/a

Building cooling load: n/a

Mechanical Spacing Conditioning System n/a

Unitary
description of unit: _____
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____
Boiler
Size category. If oversized, state reason.: _____
Chiller
Size category. If oversized, state reason.: _____

List equipment efficiencies: _____

ELECTRICAL SUMMARY

Pioneer Electric

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:

Energy Code: ☐ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

Lighting schedule (each fixture type)

lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

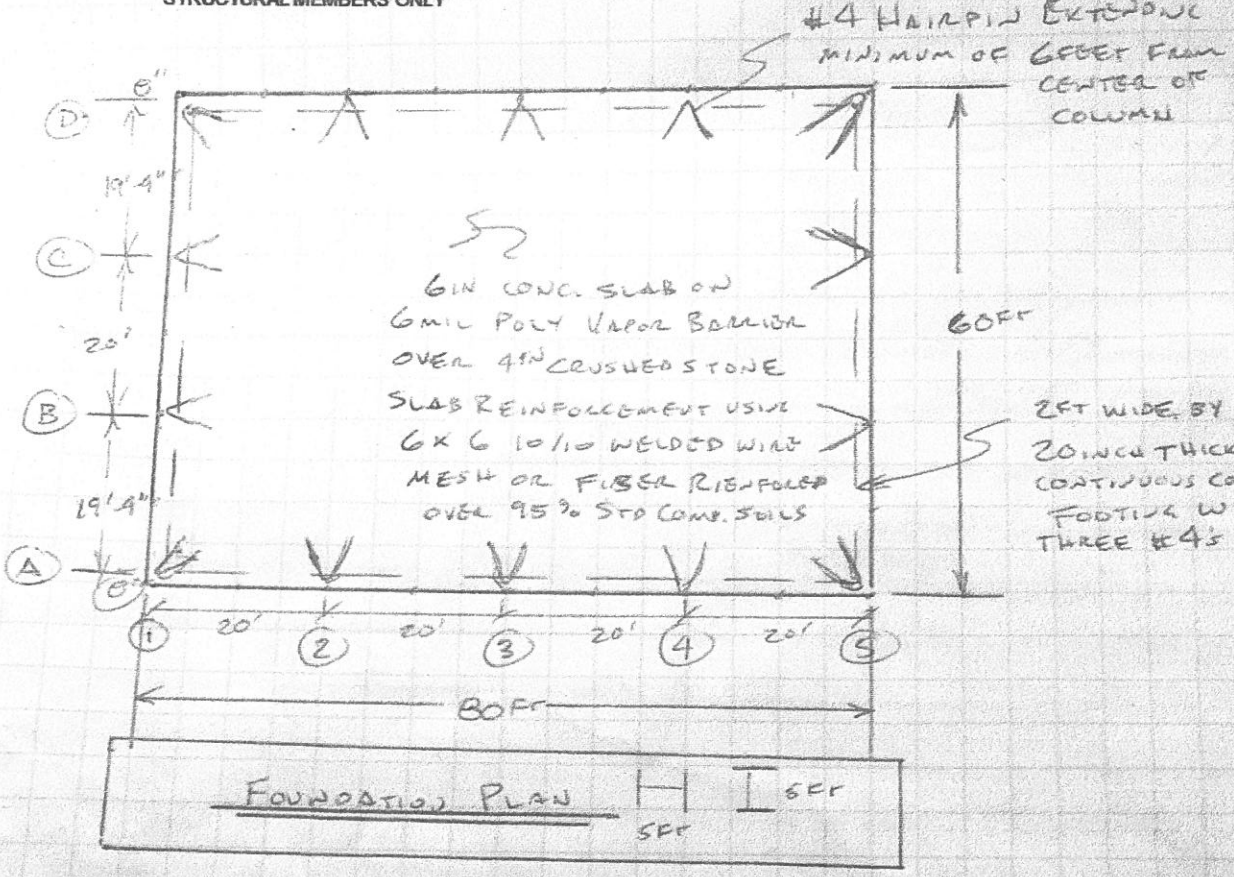
Additional Prescriptive Compliance

☐ 506.2.1 More Efficient Mechanical Equipment
☐ 506.2.2 Reduced Lighting Power Density
☐ 506.2.3 Energy Recovery Ventilation Systems
☐ 506.2.4 Higher Efficiency Service Water Heating
☐ 506.2.5 On-Site Supply of Renewable Energy
☐ 506.2.6 Automatic Daylighting Control Systems

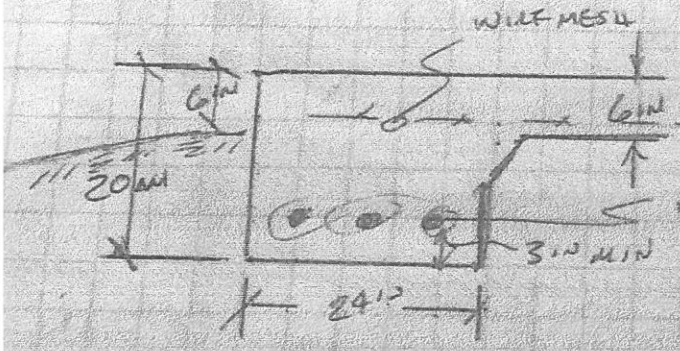
DAVID MILLER, PE
6300 Creedmoor Rd, STE 170#363
Raleigh, NC 27612
(919) 422-8932 (Office); DAVE@DMA-PA.COM

425 Royal Pines Lane
Lillington, NC 27546

Project No.:19DDM-0408A
STRUCTURAL MEMBERS ONLY



FOUNDATION PLAN



TYPICAL SLAB DETAIL (NTS)

FOUNDATION NOTES:

1) 28DAY COMPRESSIVE STG OF 3000PSI FOR CONCRETE
2) ALL REINFORCING STEEL ASTM A615 GRADE 60
3) FOLLOW MANUFACTURERS DRAWING HERITAGE BUILDING SYSTEMS. JOB # 17-B-10785

DocuSigned by:
[signature]
AED026D4715F4DC...

NORTH CAROLINA PROFESSIONAL SEAL 15845 ENGINEER DAVID MILLER

4/8/2019

HERITAGE BUILDING SYSTEMS

Established 1979

ACCREDITED® AC 472

MBMA METAL BUILDING MANUFACTURERS ASSOCIATION

BUILDER/CONTRACTOR RESPONSIBILITIES

Drawing Validity – These drawings, supporting structural calculations and design certification are based on the order documents as of the date of these drawings. These documents describe the material supplied by the manufacturer as of the date of these drawings. Any changes to the order documents after the date on these drawings may void these drawings, supporting structural calculations and design certification. The Builder/Contractor is responsible for notifying the building authority of all changes to the order documents which result in changes to the drawings, supporting structural calculations and design certification.

Builder Acceptance of Drawings – Approval of the manufacturer's drawings and design data affirms that the manufacturer has correctly interpreted and applied the requirements of the order documents and constitutes Builder/Contractor acceptance of the manufacturer's interpretations of the order documents and standard product specifications, including its design, fabrication and quality criteria standards and tolerances. (AISC code of standard practice Sept 86 Section 4.2.1) (Mar 05 Section 4.4.1)

Code Official Approval – It is the responsibility of the Builder/Contractor to ensure that all project plans and specifications comply with the applicable requirements of any governing building authority. The Builder/Contractor is responsible for securing all required approvals and permits from the appropriate agency as required.

Builder is responsible for State, Federal and OSHA safety compliance – The Builder/Contractor is responsible for applying and observing all pertinent safety rules and regulations and OSHA standards as applicable.

Building Erection – The Builder/Contractor is responsible for all erection of the steel and associated work in compliance with the Metal Building Manufacturers drawings. Temporary supports, such as temporary guys, braces, false work or other elements required for erection will be determined, furnished and installed by the erector. (AISC Code of Standard Practice Sept 86 Section 7.9.1) (Mar 05 Section 7.10.3)

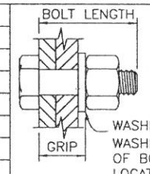
Discrepancies – Where discrepancies exist between the Metal Building plans and plans for other trades, the Metal Building plans will govern. (AISC Code of Standard Practice Sept 86 Section 3.3) (Mar 05 Section 3.3)

Materials by Others – All interface and compatibility of any materials not furnished by the manufacturer are the responsibility of and to be coordinated by the Builder/Contractor or A/E firm. Unless specific design criteria concerning any interface between materials if furnished as a part of the order documents, the manufacturers assumptions will govern.

Modification of the Metal Building from Plans – The Metal Building supplied by the manufacturer has been designed according to the Building Code and specifications and the loads shown on this drawing. Modification of the building configuration, such as removing wall panels or braces, from that shown on these plans could affect the structural integrity of the building. The Metal Building Manufacturer or a Licensed Structural Engineer should be consulted prior to making any changes to the building configuration shown on these drawings. The Metal Building Manufacturer will assume no responsibility for any loads applied to the building not indicated on these drawings.

Foundation Design – The Metal Building Manufacturer is not responsible for the design, materials and workmanship of the foundation. Anchor rod plans prepared by the manufacturer are intended to show only location, diameter and projection of the anchor rods required to attach the Metal Building System to the foundation. It is the responsibility of the end customer to ensure that adequate provisions are made for specifying rod embedment, bearing values, tie rods and or other associated items embedded in the concrete foundation, as well as foundation design for the loads imposed by the Metal Building System, other imposed loads, and the bearing capacity of the soil and other conditions of the building site. (MBMA 06 Sections 3.2.2 and A3)

1/2"ø A325 BOLT GRIP TABLE	
GRIP	LENGTH
0 TO 9/16"	1 1/4" F.T.
Over 9/16" TO 1 1/16"	1 3/4" F.T.
Over 1 1/16" TO 1 5/16"	2"
Over 1 5/16" TO 1 9/16"	2 1/4"
Over 1 9/16" TO 1 13/16"	2 1/2"
Over 1 13/16" TO 2 1/16"	2 3/4"
LOCATIONS OF BOLTS LONGER THAN 2 3/4" NOTED ON ERECTION DRAWINGS	
F.T. DENOTES FULLY THREADED	



NOTE:
FULL THREAD ENGAGEMENT IS DEEMED TO HAVE BEEN MET WHEN THE END OF THE BOLT IS FLUSH WITH THE FACE OF THE NUT.

WASHER REQUIRED ONLY WHEN SPECIFIED. WASHER MAY BE LOCATED UNDER HEAD OF BOLT, UNDER NUT, OR AT BOTH AT LOCATIONS NOTED ON ERECTION DRAWINGS. ADD 5/32" FOR EACH WASHER TO MATERIAL THICKNESS TO DETERMINE GRIP.

Rev. 4/4/2017

PROJECT NOTES

Material properties of steel bar, plate, and sheet used in the fabrication of built-up structural framing members conform to ASTM A529, ASTM A572, ASTM A1011 SS, or ASTM A1011 HSLAS with a minimum yield point of 50 ksi. Material properties of hot rolled structural shapes conform to ASTM A992, ASTM A529, or ASTM A572 with a minimum specified yield point of 50 ksi. Hot rolled angles, or other than flange braces, conform to ASTM 36 minimum. Hollow structural shaped conform to ASTM A500 grade b, minimum yield point is 42 ksi for round HSS and 46 ksi for rectangular HSS. Material properties of cold form light gage steel members conform to the requirements of ASTM A1011 SS Grade 55 or ASTM A1011 HSLAS Class 1 Grade 55, with a minimum yield point of 55 ksi.

The manufacturer does not assume any responsibility for the erection nor field supervision of the structure and or any special inspections that may be required by the local building authority during erection (including inspection of the high strength bolts or field welds) as required during erection. The coordination and the costs associated for setting up and Special Inspections are the responsibility of the Erector, Owner, Architect, or Engineer of Record.

Design is based upon the more severe loading of either the roof snow load or the roof live load.

Loads, as noted, are given within order documents and are applied in general accordance with the applicable provisions of the model code and/or specification indicated. Neither the manufacture nor the certifying engineer declares or attests that the loads as designated are proper for the local provisions that may apply or for site specific parameters. The manufacturer's Engineer's certification is limited to design loads supplied by an Architect and/or engineer of record for the overall construction project.

This project is designed using manufacture's standard serviceability standards. Generally this means that all stresses and deflections are within typical performance limits for normal occupancy and standard metal building products. If special requirements for deflections and vibrations must be adhered to, then they must be clearly stated in the contract documents.

This metal building system is designed as enclosed. All exterior components (i.e. doors, windows, vents, etc.) must be designed to withstand the specified wind loading for the design of components and cladding in accordance with the specified building code. Doors are to be closed when a maximum of 50% of design wind velocity is reached.

DESIGN LOADING

THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY:

NCBC 2018

THE BUILDER IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.

FRAME / ROOF DEAD LOAD	
SUPERIMPOSED	1.730 PSF
COLLATERAL (LIGHTS)	1 PSF
FRAME / ROOF LIVE LOAD	12 / 20.00 PSF
RISK CATEGORY	II – Normal
SNOW LOAD	
GROUND SNOW LOAD (Pg)	20.0000 PSF
MINIMUM ROOF SNOW	20.00 PSF
SNOW LOAD IMPORTANCE FACTOR (Is)	1.0000
FLAT ROOF SNOW LOAD (Pf)	14 PSF
SNOW EXPOSURE FACTOR (Ce)	1.0
THERMAL FACTOR (Ct)	1.00
WIND LOAD	
ULTIMATE WIND SPEED	120 MPH
NOMINAL WIND SPEED (Vasd)	93 MPH (IBC Section 1609.3.1)
WIND EXPOSURE CATEGORY	B
TOPOGRAPHICAL FACTOR	1.0
INTERNAL PRESSURE COEFFICIENT (GCpi)	0.18 /–0.18

ZONE 4, COMPONENT WIND LOAD ≤ 10FT²

23.689 PSF PRESSURE –25.663 PSF SUCTION

ZONE 5, COMPONENT WIND LOAD < 10FT²

23.689 PSF PRESSURE –31.526 PSF SUCTION

ZONES PER ASCE 7–10; FIG. 30.4–1
ZONES PRESSURES SHOWN ARE UN–FACTORED

RAIN INTENSITY	
5–MINUTE DURATION, 5–YEAR RECURRENCE (I1)	7.0600 IN/HOUR
SEISMIC LOAD	
SEISMIC IMPORTANCE FACTOR (Ie)	1.00
S_s 0.1850	S_{Ds} 0.1973
S1 0.0870	S_{D1} 0.1392
SITE CLASS	D Stiff Soil
SEISMIC DESIGN CATEGORY	C

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

	ALL	ALL FRONT	ALL BACK
BASIC FORCE RESISTING SYSTEM*	H	H	H
RESPONSE MODIFICATION COEFFICIENT(R)	3	3	3
SYSTEM OVER–STRENGTH FACTOR(Ω_0)	2.5000	2.5000	2.5000
SEISMIC RESPONSE COEFFICIENT(C_s)	0.066	0.066	0.066
BLDG DESIGN BASE SHEAR (V)	1.86 (k)	1.87 (k)	

THE TRANSVERSE DIRECTION IS PARALLEL TO THE RIGID FRAMES
THE LONGITUDINAL DIRECTION IS PERPENDICULAR TO THE RIGID FRAMES

BASIC FORCE RESISTING SYSTEM*
C4. STEEL ORDINARY MOMENT FRAME
B3. STEEL ORDINARY CONCENTRIC BRACED FRAMES
H. STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
G2. INVERTED PENDULUM SYSTEMS CANTILEVERED COLUMN SYSTEMS

DRAWING INDEX

PAGE	DESCRIPTION
C1	COVER SHEET
F1	ANCHOR BOLT PLAN
F2	ANCHOR BOLT REACTIONS
F3	ANCHOR BOLT DETAILS
E1	ROOF FRAMING PLAN
E2	ROOF SHEETING PLAN
E3	FRONT SIDEWALL
E4	BACK SIDEWALL
E5	LEFT ENDWALL
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E7–8	FRAME CROSS SECTION
DET1–15	STANDARD DETAILS
R1–3	INSTALLATIONS SHEETS

DRAWING STATUS

☐ FOR APPROVAL
THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR ERECTOR INSTALLATION" CAN BE CONSIDERED AS COMPLETE.

☐ FOR CONSTPUCTION PERMIT
THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL. ONLY DRAWINGS ISSUED "FOR ERECTOR INSTALLATION" CAN BE CONSIDERED AS COMPLETE.

☒ FOR ERECTOR INSTALLATION
FINAL DRAWINGS FOR CONSTRUCTION.

FOR QUESTIONS OR ASSISTANCE CONCERNING ERECTION CALL:
1–800–643–5555
MONDAY – FRIDAY 7:30AM TO 5:00PM

ENGINEERING SEAL

THIS CERTIFICATION COVERS PARTS MANUFACTURED AND DELIVERED BY THE MANUFACTURER ONLY, AND EXCLUDES PARTS SUCH AS DOORS, WINDOWS, FOUNDATION DESIGN AND ERECTION OF THE BUILDING.

THESE DRAWINGS AND THE METAL BUILDING SYSTEM THEY REPRESENT ARE THE PRODUCT OF AN AFFILIATE OF NCI GROUP, INC. – 10943 N. SAM HOUSTON PARKWAY W., HOUSTON, TX 77064. THE PROFESSIONAL ENGINEER WHOSE SEAL APPEARS HEREON IS EMPLOYED BY AN AFFILIATE OF NCI GROUP, INC. AND IS NOT THE ENGINEER–OF–RECORD FOR THE OVERALL PROJECT.

BUILDING SIZE: 60'–0" x 80'–0" x 20'–0" 1.0:12

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

HERITAGE BUILDING SYSTEMS
Established 1979
2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1–800–643–5555

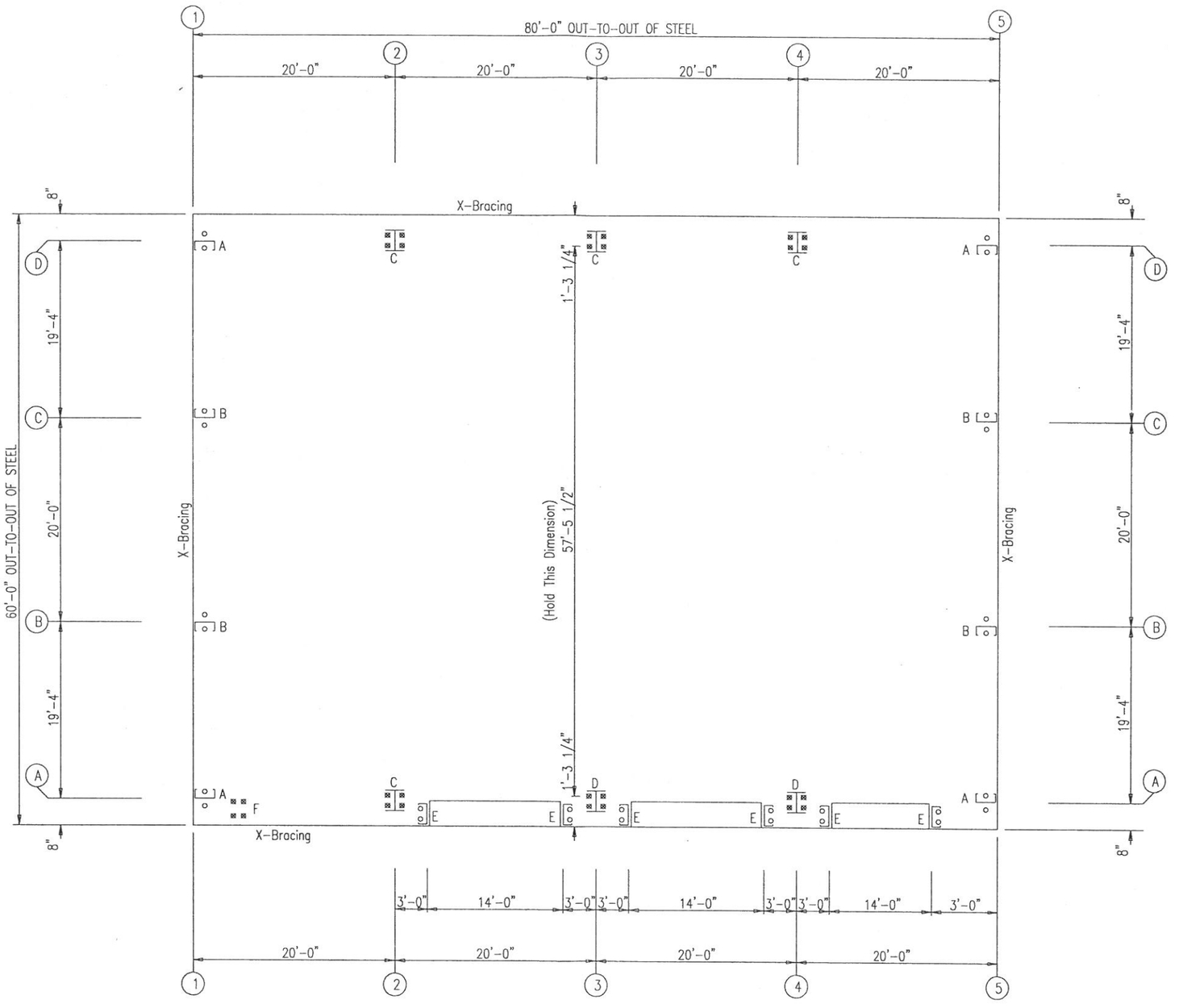
PROJECT: JOSHUA BRITTON
CUSTOMER: BRITTON PORTABLE WELDING
OWNER: JOSHUA BRITTON
LOCATION: LILLINGTON, NC 27546

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	3/28/19	N.T.S.	1	A	17–B–10785	C1	0

NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR
Apr 02 2019

○ Dia= 5/8"

⊠ Dia= 3/4"



ANCHOR BOLT PLAN

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

HERITAGE
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NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR
Apr 02, 2019

NOTES FOR REACTIONS

BUILDING REACTIONS ARE BASED ON THE FOLLOWING BUILDING DATA:

WIDTH (FT)	= 60
LENGTH (FT)	= 80
EAVE HEIGHT (FT)	= 20 / 20
ROOF SLOPE (rise/12)	= 1.0:12 / 1.0:12
DEAD LOAD (psf)	= 1.730
COLLATERAL LOAD (psf)	= 1
ROOF LIVE LOAD (psf)	= 20.00
FRAME LIVE LOAD (psf)	= 12
ROOF SNOW LOAD (psf)	= 14
MINIMUM ROOF SNOW (psf)	= 20.00
GROUND SNOW LOAD (psf)	= 20.0000
WIND SPEED (MPH)	= 120
WIND CODE	= NCBC 2018
EXPOSURE	= B
CLOSED/OPEN	= Closed
IMPORTANCE - WIND	= 1.00
IMPORTANCE - SEISMIC	= 1.00
SEISMIC ZONE	= C

REACTION KEY:

WIND Left/Right 1 = (with +GCpi Internal Pressure)
WIND Left/Right 2 = (with -GCpi Internal Pressure)
Wind_Long 1 = Wind Load Case B at Left EW
Wind_Long 2 = Wind Load Case B at Right EW
MIN_SNOW = Minimum Snow (Pm) per code
E#UNB_SL_L = Endwall Unbalanced Snow Left
E#UNB_SL_R = Endwall Unbalanced Snow Right
F#UNB_SL_L = Rigid Frame Unbalanced Snow Left
F#UNB_SL_R = Rigid Frame Unbalanced Snow Right

GENERAL NOTES

1. THE REACTIONS PROVIDED ARE BASED ON THE ORDER DOCUMENTS AT THE TIME OF MAILING. ANY CHANGES TO BUILDING LOADS OR DIMENSIONS MAY CHANGE THE REACTIONS. THE REACTIONS WILL BE SUPERSEDED AND VOIDED BY ANY FUTURE MAILING.
2. REACTIONS ARE PROVIDED AS UN-FACTORED FOR EACH LOAD GROUP APPLIED TO THE COLUMN. THE FOUNDATION ENGINEER WILL APPLY THE APPROPRIATE LOAD FACTORS AND COMBINE THE REACTIONS IN ACCORDANCE WITH THE BUILDING CODE AND DESIGN SPECIFICATIONS TO DETERMINE BEARING PRESSURES AND CONCRETE DESIGN. THE FACTORS APPLIED TO LOAD GROUPS FOR THE STEEL COLUMN DESIGN MAY BE DIFFERENT THAN THE FACTORS USED IN THE FOUNDATION DESIGN.
3. THE MANUFACTURER DOES NOT PROVIDE "MAXIMUM" LOAD COMBINATION REACTIONS. HOWEVER, THE INDIVIDUAL LOAD REACTIONS PROVIDED MAY BE USED BY THE FOUNDATION ENGINEER TO DETERMINE THE APPLICABLE LOAD COMBINATIONS FOR HIS/HER DESIGN PROCEDURES AND ALLOW FOR AN ECONOMICAL FOUNDATION DESIGN
4. THE METAL BUILDING MANUFACTURER IS RESPONSIBLE FOR THE DESIGN OF THE ANCHOR BOLT DIAMETER ONLY TO PERMIT THE TRANSFER OF FORCES BETWEEN THE BASE PLATE AND THE ANCHOR BOLT IN SHEAR, BEARING AND TENSION, BUT IS NOT RESPONSIBLE FOR THE ANCHOR BOLT EMBEDMENT FOR TRANSFER OF FORCES TO THE FOUNDATION. THE METAL BUILDING MANUFACTURER DOES NOT DESIGN AND IS NOT RESPONSIBLE FOR THE DESIGN, MATERIAL AND CONSTRUCTION OF THE FOUNDATION EMBEDMENTS. THE END USE CUSTOMER SHOULD ASSURE HIMSELF THAT ADEQUATE PROVISIONS ARE MADE IN THE FOUNDATION DESIGN FOR LOADS IMPOSED BY COLUMN REACTIONS OF THE BUILDING, OTHER IMPOSED LOADS, AND BEARING CAPACITY OF THE SOIL AND OTHER CONDITIONS OF THE BUILDING SITE. IT IS RECOMMENDED THAT THE ANCHORAGE AND FOUNDATION OF THE BUILDING BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER EXPERIENCED IN THE DESIGN OF SUCH STRUCTURES, (SECTION A3 MBMA 2006 METAL BUILDING SYSTEMS MANUAL)
5. BOTTOM OF ALL BASE PLATES ARE AT THE SAME ELEVATION. (UNLESS NOTED)
6. ANCHOR RODS ARE ASTM F1554 GRADE 36 MATERIAL UNLESS NOTED OTHERWISE.

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert	Wind_Right1 Horz	Wind_Right1 Vert	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert
1	D	0.3	0.1	1.7	1.2	0.0	−2.1	0.0	−1.4	0.0	−1.4	0.0	−0.6
1	C	0.6	0.2	4.4	3.1	1.9	−7.6	0.0	−1.3	1.9	−6.0	0.0	0.3
1	B	0.6	0.2	4.4	3.1	0.0	−1.3	1.9	−7.6	0.0	0.3	1.9	−6.0
1	A	0.3	0.1	1.7	1.2	0.0	−1.4	0.0	−2.1	0.0	−0.6	0.0	−1.4

Frm Line	Col Line	Wind_Press Horz	Wind_Press Vert	Wind_Suct Horz	Wind_Suct Vert	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seis_Left Horz	Seis_Left Vert	Seis_Right Horz	Seis_Right Vert	Seis_Long Horz	Seis_Long Vert
1	D	0.0	0.0	0.0	0.0	0.0	−2.2	0.0	−1.3	0.0	0.0	0.0	0.0	0.0	0.0
1	C	−3.8	0.0	4.2	0.0	0.0	−5.3	0.3	−3.7	0.3	−0.3	0.0	0.3	0.0	0.0
1	B	−3.8	0.0	4.2	0.0	0.3	−3.7	0.0	−5.3	0.0	0.3	0.3	−0.3	0.0	0.0
1	A	0.0	−4.8	0.0	4.8	0.0	−1.3	0.0	−2.2	0.0	0.0	0.0	0.0	−0.9	−0.9

Frm Line	Col Line	−MIN_SNOW− Horz	−MIN_SNOW− Vert	E1UNB_SL_L− Horz	E1UNB_SL_L− Vert	E1UNB_SL_R− Horz	E1UNB_SL_R− Vert
1	D	0.0	1.7	0.0	1.2	0.0	0.3
1	C	0.0	4.4	0.0	4.0	0.0	1.2
1	B	0.0	4.4	0.0	1.2	0.0	4.0
1	A	0.0	1.7	0.0	0.3	0.0	1.2

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert	Wind_Right1 Horz	Wind_Right1 Vert	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind Press Horz
5	A	0.3	0.1	1.7	1.2	0.0	−2.1	0.0	−1.4	0.0	−1.4	0.0	−0.6	−1.8
5	B	0.6	0.2	4.4	3.1	1.9	−7.6	0.0	−1.3	1.9	−6.0	0.0	0.3	−3.8
5	C	0.6	0.2	4.4	3.1	0.0	−1.3	1.9	−7.6	0.0	0.3	1.9	−6.0	−3.8
5	D	0.3	0.1	1.7	1.2	0.0	−1.4	0.0	−2.1	0.0	−0.6	0.0	−1.4	0.0

Frm Line	Col Line	Wind Suct Horz	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seis_Left Horz	Seis_Left Vert	Seis_Right Horz	Seis_Right Vert	−MIN_SNOW− Horz	−MIN_SNOW− Vert	E2UNB_SL_L− Horz	E2UNB_SL_L− Vert
5	A	2.1	0.0	−2.2	0.0	−1.3	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.2
5	B	4.2	0.0	−5.3	0.3	−3.7	0.3	−0.3	0.0	0.3	0.0	4.4	0.0	4.0
5	C	4.2	0.3	−3.7	0.0	−5.3	0.0	0.3	0.3	−0.3	0.0	4.4	0.0	1.2
5	D	0.0	0.0	−1.3	0.0	−2.2	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.3

Frm Line	Col Line	E2UNB_SL_R− Horz	E2UNB_SL_R− Vert
5	A	0.0	0.3
5	B	0.0	1.2
5	C	0.0	4.0
5	D	0.0	1.2

ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES

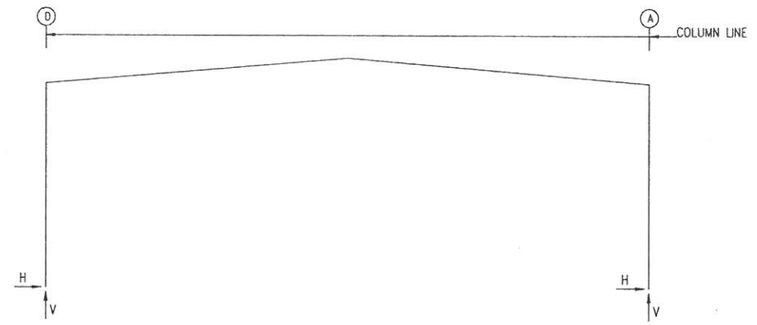
Frm Line	Col Line	Anc._Bolt Qty	Anc._Bolt Dia	Base_Plate (in) Width	Base_Plate (in) Length	Base_Plate (in) Thick	Grout (in)
1	D	2	0.625	7.000	12.00	0.250	0.0
1	C	2	0.625	7.000	12.00	0.250	0.0
1	B	2	0.625	7.000	12.00	0.250	0.0
1	A	2	0.625	7.000	12.00	0.250	0.0
5	A	2	0.625	7.000	12.00	0.250	0.0
5	B	2	0.625	7.000	12.00	0.250	0.0
5	C	2	0.625	7.000	12.00	0.250	0.0
5	D	2	0.625	7.000	12.00	0.250	0.0

BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line	Reactions in plane of wall ± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis
L_EW	1	C,B	Bracing, see EW reactions					
F_SW	A	1,2	5.3 *		0.9 *			
R_EW	5	B,C	Bracing, see EW reactions					
B_SW	D	3,2	5.3 *		0.9 *			

*See RF reactions table for vertical and horizontal reactions in plane of the rigid frame.

FRAME LINES: 2 3 4



RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc._Bolt Qty	Anc._Bolt Dia	Base_Plate (in) Width	Base_Plate (in) Length	Base_Plate (in) Thick	Grout (in)
2	D	4	0.750	6.000	9.500	0.375	0.0
2	A	4	0.750	6.000	9.500	0.375	0.0

RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc._Bolt Qty	Anc._Bolt Dia	Base_Plate (in) Width	Base_Plate (in) Length	Base_Plate (in) Thick	Grout (in)
3*	D	4	0.750	6.000	9.500	0.375	0.0
3*	A	4	0.750	8.000	9.500	0.375	0.0

3* Frame lines: 3 4

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
2	D	0.8	1.8	0.3	0.6	3.7	7.2	4.3	8.4	−8.0	−12.3	−1.2	−7.7
2	A	−0.8	1.8	−0.3	0.6	−3.7	7.2	−4.3	8.4	1.2	−7.7	8.0	−12.3

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
2	D	−7.2	−7.6	−0.4	−2.9	−2.1	−15.9	−2.5	−13.7	−0.2	−0.1	0.2	0.1
2	A	0.4	−2.9	7.2	−7.6	2.5	−13.7	2.1	−15.9	−0.2	0.1	0.2	−0.1

Frame Line	Column Line	Seismic_Long Horiz	Seismic_Long Vert	−MIN_SNOW− Horiz	−MIN_SNOW− Vert	F1UNB_SL_L− Horiz	F1UNB_SL_L− Vert	F1UNB_SL_R− Horiz	F1UNB_SL_R− Vert
2	D	0.0	−0.9	6.2	12.0	3.7	8.4	3.7	4.8
2	A	0.0	−0.9	−6.2	12.0	−3.7	4.8	−3.7	8.4

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
3*	D	0.8	1.8	0.3	0.6	3.7	7.2	4.4	8.4	−7.6	−11.5	−0.8	−7.1
3*	A	−0.8	1.9	−0.3	0.6	−3.7	7.2	−4.4	8.4	0.7	−7.1	7.6	−11.5

Frame Line	Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
3*	D	−7.0	−6.8	−0.2	−2.4	−1.9	−15.1	−2.2	−13.2	−0.2	−0.1	0.2	0.1
3*	A	0.2	−2.4	7.0	−6.8	2.2	−8.4	1.9	−10.3	−0.2	0.1	0.2	−0.1

Frame Line	Column Line	Seismic_Long Horiz	Seismic_Long Vert	−MIN_SNOW− Horiz	−MIN_SNOW− Vert	F2UNB_SL_L− Horiz	F2UNB_SL_L− Vert	F2UNB_SL_R− Horiz	F2UNB_SL_R− Vert
3*	D	0.0	−0.9	6.2	12.0	3.7	8.4	3.7	4.8
3*	A	0.0	0.0	−6.2	12.0	−3.7	4.8	−3.7	8.4

3* Frame lines: 3 4

ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Proj (in)
○ 12	Jamb	5/8"	F1554	2.00
○ 16	Endwall	5/8"	F1554	2.00
⊠ 24	Frame	3/4"	F1554	2.50
⊠ 4	WindBent	3/4"	F1554	2.50

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JOSHUA BRITTON
CUSTOMER: BRITTON PORTABLE WELDING
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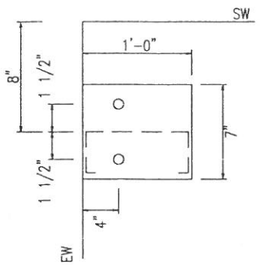
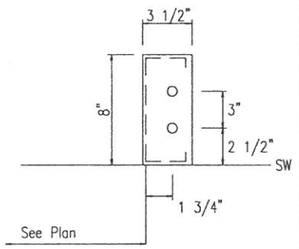
NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR
Apr 02, 2019

Dia= 5/8"



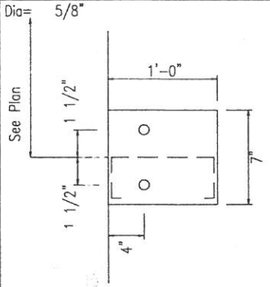
DETAIL A

Dia= 5/8"



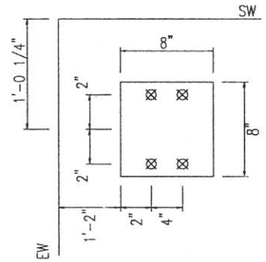
DETAIL E

Dia= 5/8"



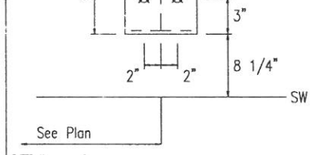
DETAIL B

Dia= 3/4"



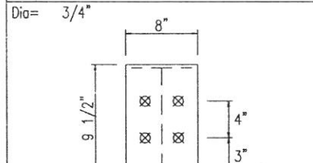
DETAIL F

Dia= 3/4"

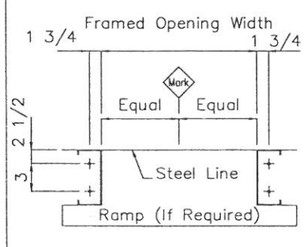


DETAIL C

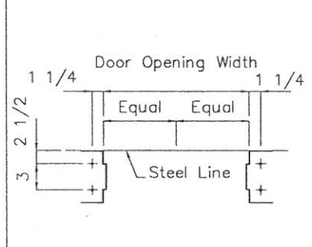
Dia= 3/4"



DETAIL D



ARDia	Framed Opening AR Layout
5/8"	



AR Dia	Walk Door AR Layout
1/2"	

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

HERITAGE
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NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR
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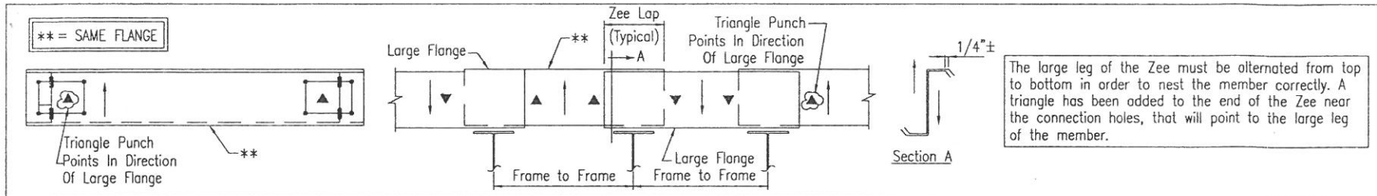
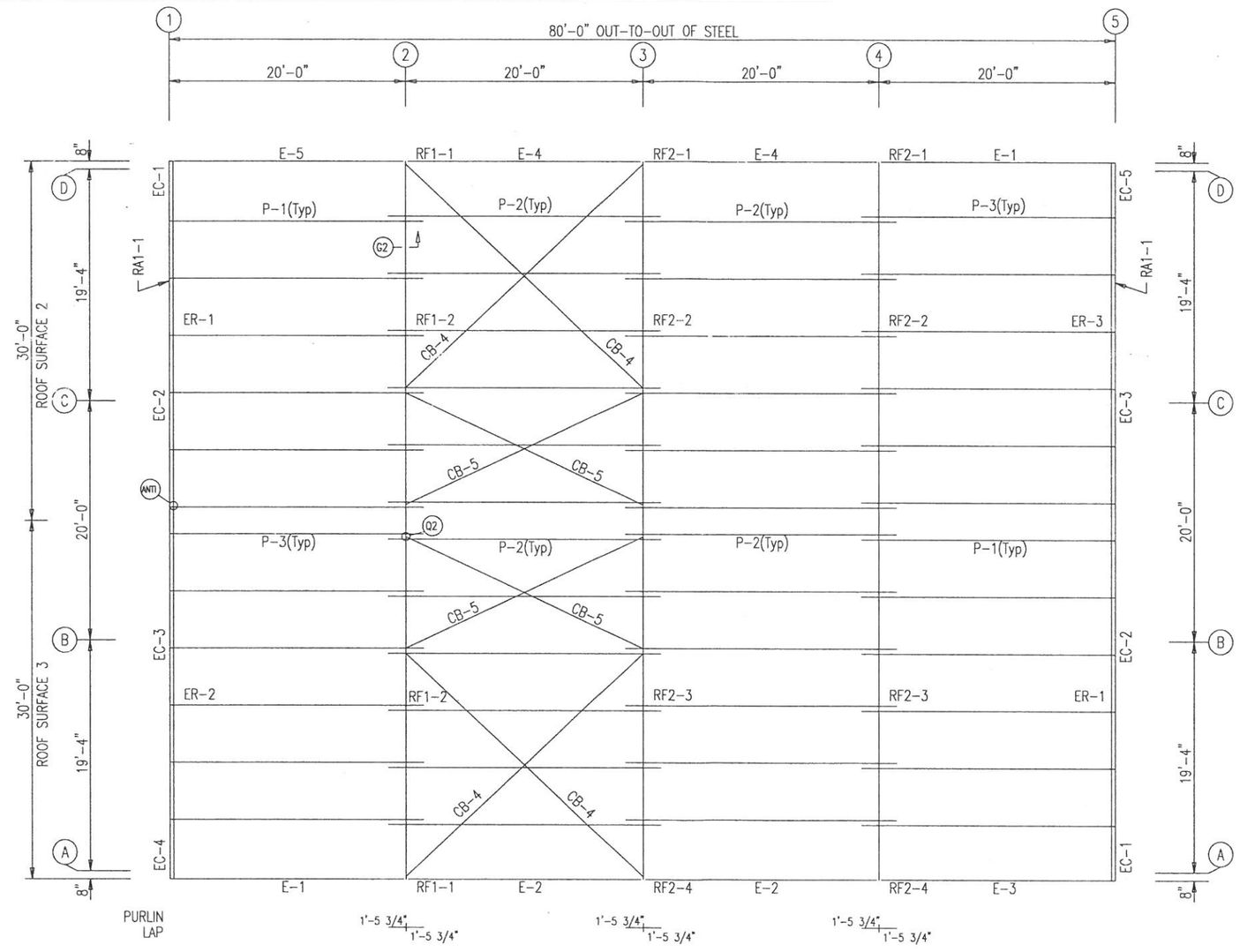


The large leg of the Zee must be alternated from top to bottom in order to nest the member correctly. A triangle has been added to the end of the Zee near the connection holes, that will point to the large leg of the member.

MEMBER TABLE ROOF PLAN		
MARK	PART	LENGTH
P-1	8X25Z16	21'-5 1/2"
P-2	8X25Z16	22'-11 1/2"
P-3	8X25Z16	21'-5 1/2"
E-1	8ES1L14	19'-11 1/2"
E-2	8ES1L14	19'-11 1/2"
E-3	8ES1L14	19'-11 1/2"
E-4	8ES1L14	19'-11 1/2"
E-5	8ES1L14	19'-11 1/2"
CB-4	1/4" CABLE	27'-2"
CB-5	1/4" CABLE	22'-8"



ROOF FRAMING PLAN

GENERAL NOTES:

1. INSTALL ALL PURLIN AND FLANGE BRACES (FB) AS SHOWN.
2. ROOF PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. STRUT PURLINS, IF PROVIDED, MUST BE INSTALLED AND FASTENED TO ROOF SHEETING PER "PBR" PANEL ROOF DETAIL.
4. DO NOT ADD ANY ADDITIONAL ROOF OPENINGS WITHOUT BUILDING MANUFACTURER APPROVAL OR PROFESSIONAL ENGINEER APPROVAL.
5. DO NOT STACK SHEET BUNDLES ON ROOF. ONLY RAISE INDIVIDUAL SHEETS AS NEEDED.
6. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

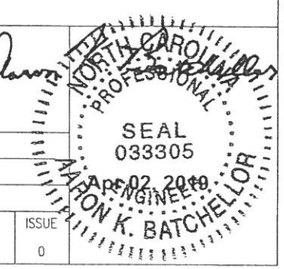
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

HERITAGE BUILDING SYSTEMS
Established 1979

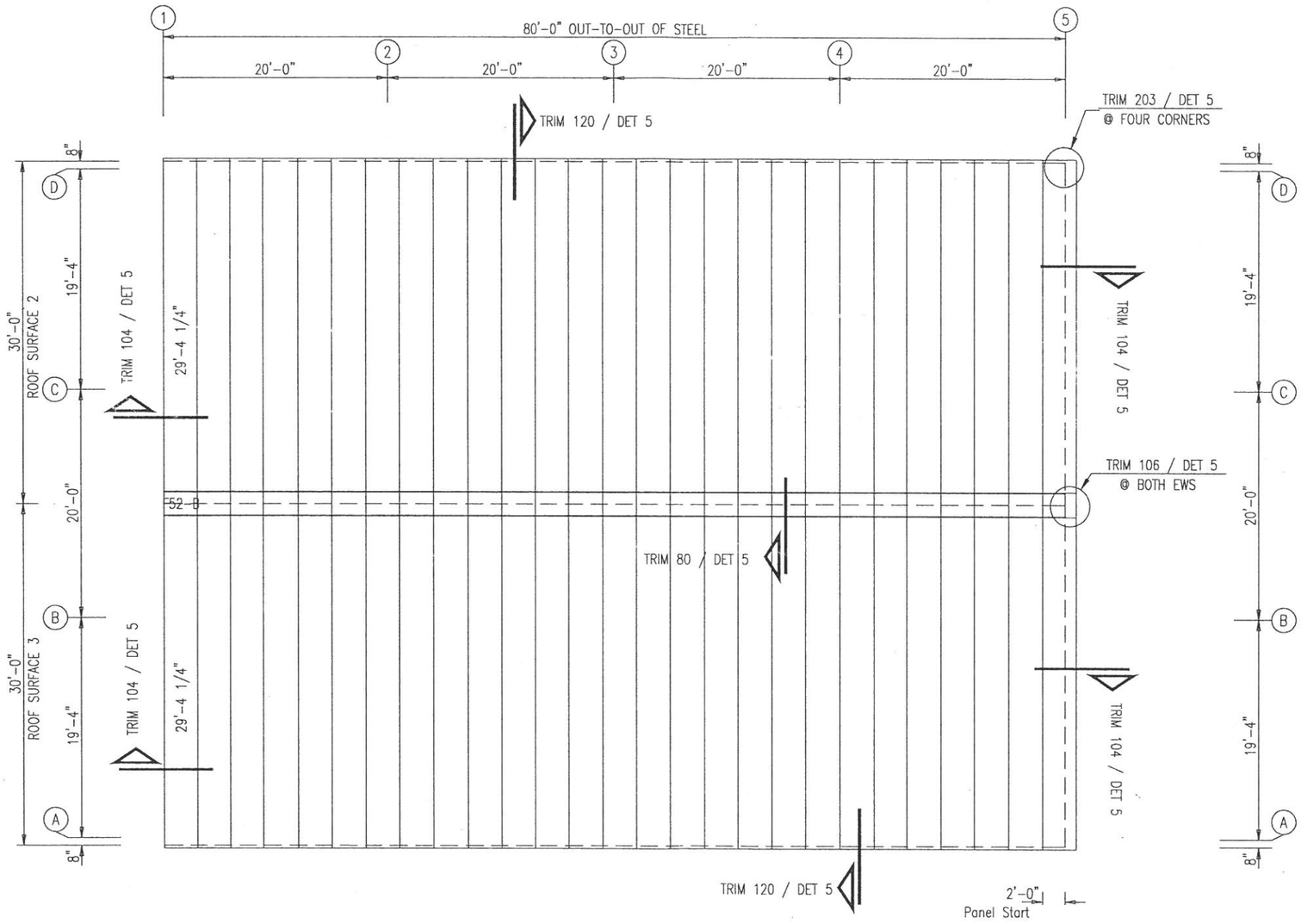
2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JOSHUA BRITTON
CUSTOMER: BRITTON PORTABLE WELDING
OWNER: JOSHUA BRITTON
LOCATION: LILLINGTON, NC 27546

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	3/28/19	N.T.S.	1	A	17-B-10785	E1	0



PBR ROOF SHEETING NOTE:
PBR ROOF PANELS ARE TO BE FIELD CUT IF THE PANELS EXTEND OUTSIDE OF THE ROOF PLANE, PANELS ARE NOT TO BE BACK LAPPED.



ROOF SHEETING PLAN

PANELS: 26 Gauge PBR – Galvalume

GENERAL NOTES:

1. INSTALL ALL PURLIN AND FLANGE BRACES (FB) AS SHOWN.
2. ROOF PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. STRUT PURLINS, IF PROVIDED, MUST BE INSTALLED AND FASTENED TO ROOF SHEETING PER "PBR" PANEL ROOF DETAIL.
4. DO NOT ADD ANY ADDITIONAL ROOF OPENINGS WITHOUT BUILDING MANUFACTURER APPROVAL OR PROFESSIONAL ENGINEER APPROVAL.
5. DO NOT STACK SHEET BUNDLES ON ROOF. ONLY RAISE INDIVIDUAL SHEETS AS NEEDED.
6. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
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HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

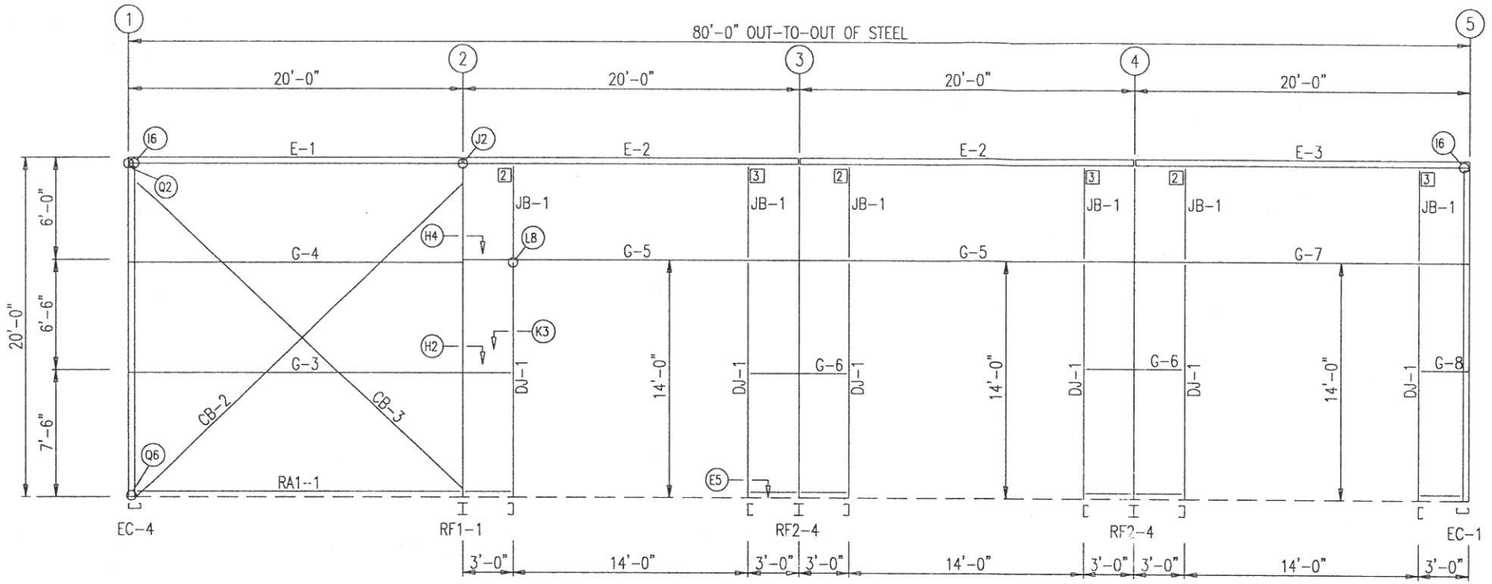
PROJECT: JOSHUA BRITTON
CUSTOMER: BRITTON PORTABLE WELDING
OWNER: JOSHUA BRITTON
LOCATION: LILLINGTON, NC 27546

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	3/28/19	N.T.S.	1	A	17-B-10785	E2	0

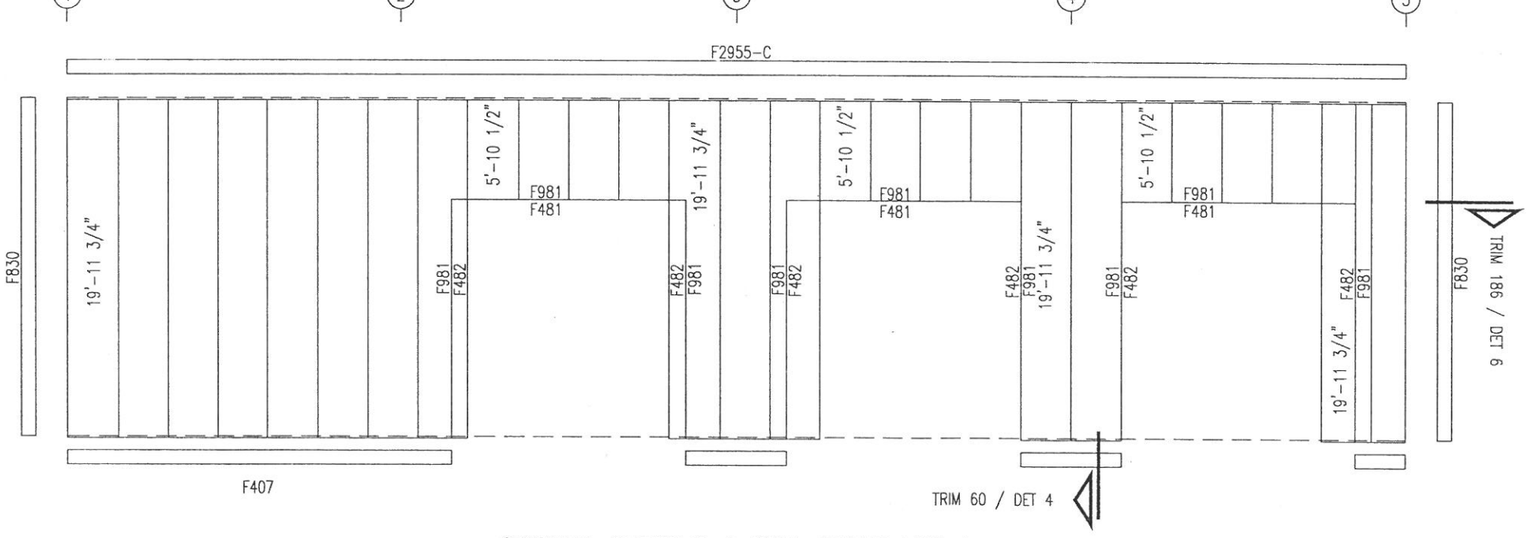
NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR
Apr 02 2019

MEMBER TABLE FRAME LINE A		
MARK	PART	LENGTH
DJ-1	8F35C14	14'-0"
E-1	8ES1L14	19'-11 1/2"
E-2	8ES1L14	19'-11 1/2"
E-3	8ES1L14	19'-11 1/2"
G-3	8X25Z16	22'-8"
G-4	8X25Z14	19'-11 1/2"
G-5	8X25C16	19'-11 1/2"
G-6	8X25Z16	5'-4 1/2"
G-7	8X25C14	19'-11 1/2"
G-8	8X25Z16	2'-8"
CB-2	5/16" CABLE	26'-5"
CB-3	5/16" CABLE	27'-8"
JB-1	8F35C14	5'-3 3/16"

CONNECTION PLATES FRAME LINE A	
ID	MARK/PART
2	SC584_L
3	SC584_R



SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Gauge PBR – Fern Green

GENERAL NOTES:

1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

HERITAGE BUILDING SYSTEMS
Established 1979

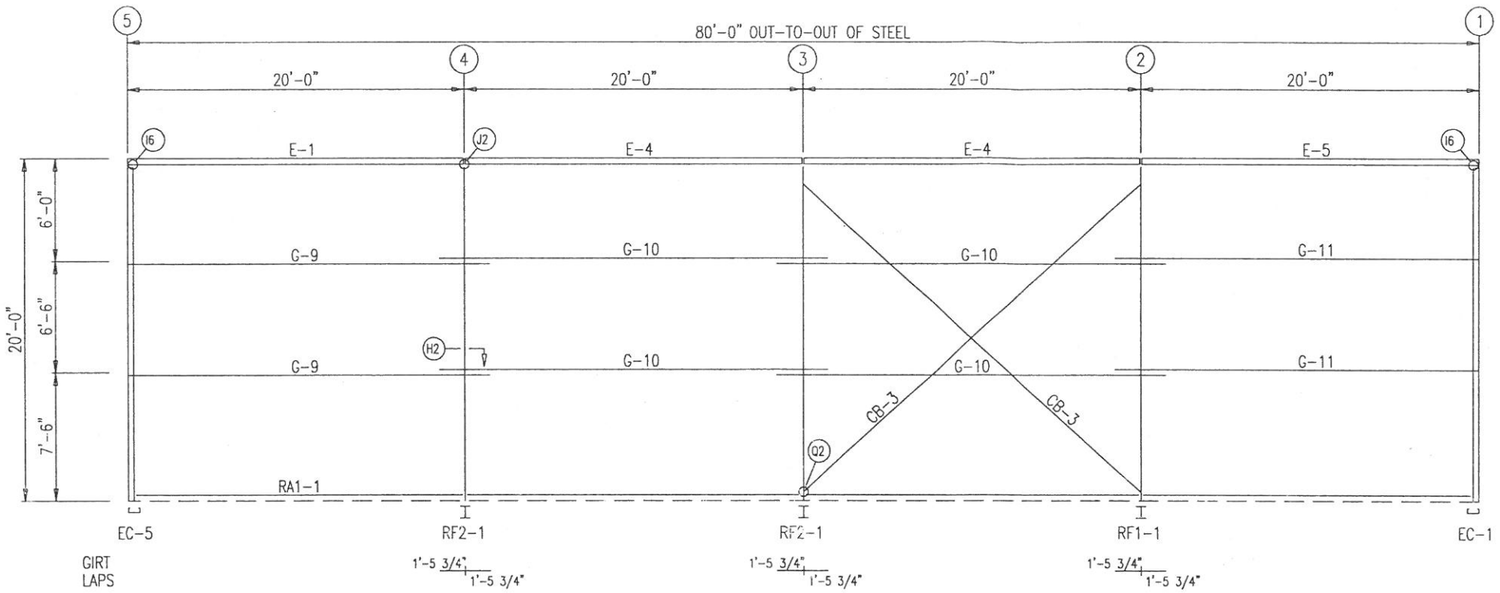
2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JOSHUA BRITTON
CUSTOMER: BRITTON PORTABLE WELDING
OWNER: JOSHUA BRITTON
LOCATION: LILLINGTON, NC 27546

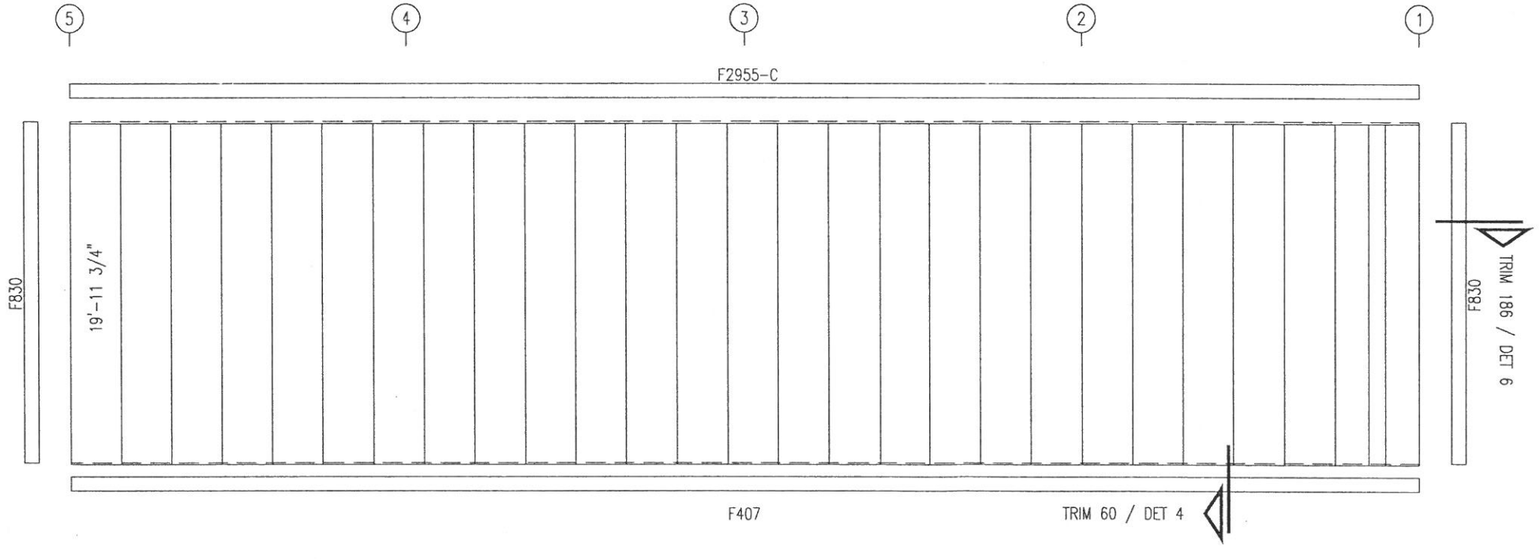
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	3/28/19	N.T.S.	1	A	17-B-10785	E3	0

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 033305 AARON K. BATCHELLOR Apr 02, 2019

MEMBER TABLE FRAME LINE D		
MARK	PART	LENGTH
E-1	8ES1L14	19'-11 1/2"
E-4	8ES1L14	19'-11 1/2"
E-5	8ES1L14	19'-11 1/2"
G-9	8X25Z16	21'-5 1/2"
G-10	8X25Z16	22'-11 1/2"
G-11	8X25Z16	21'-5 1/2"
CB-3	5/16" CABLE	27'-8"



SIDEWALL FRAMING: FRAME LINE D



SIDEWALL SHEETING & TRIM: FRAME LINE D

PANELS: 26 Gauge PBR – Fern Green

GENERAL NOTES:

1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

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HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JOSHUA BRITTON
CUSTOMER: BRITTON PORTABLE WELDING
OWNER: JOSHUA BRITTON
LOCATION: LILLINGTON, NC 27546

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
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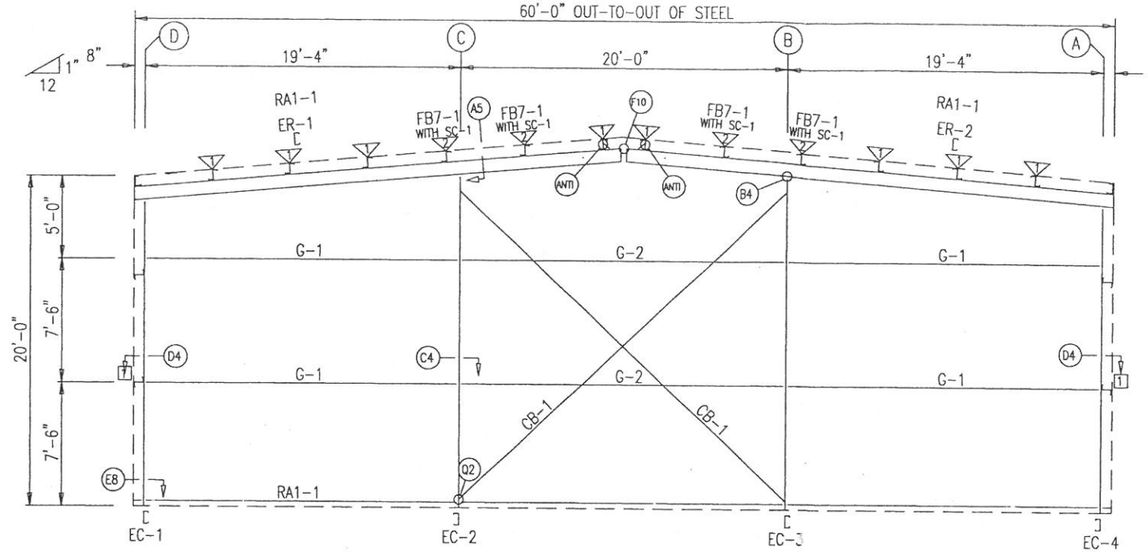
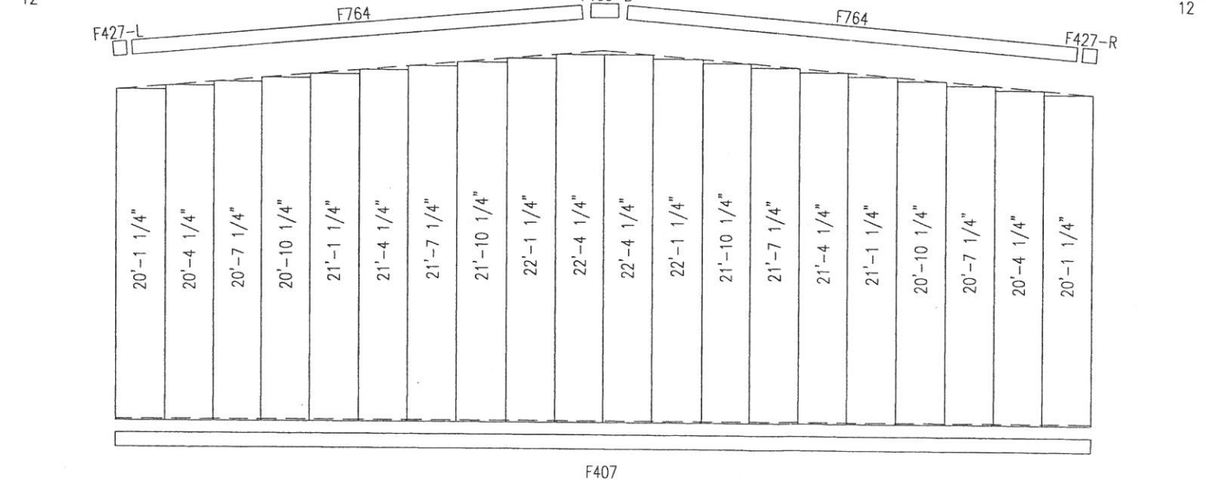
NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR Apr 02 2019

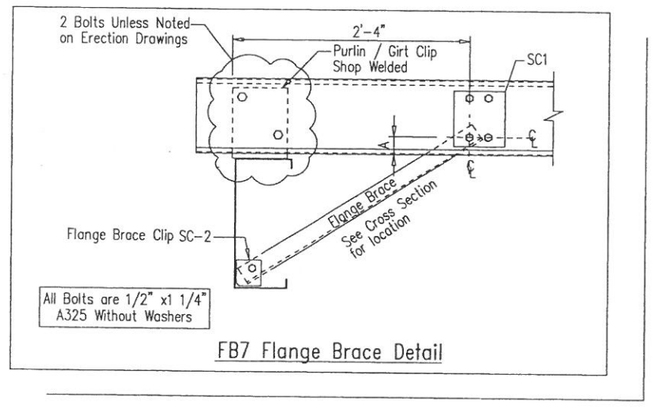


ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Gauge PBR – Fern Green



FB7 Flange Brace Detail

BEARING FRAME ONLY!

WASHER TO BE USED AT ENDWALL COLUMN TO ENDWALL RAFTER CONNECTION. USE ONE WASHER ON COLUMN SIDE. WASHER NOT NEEDED ON CLIP SIDE.

BOLT TABLE
FRAME LINE 1

LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	4	A325	5/8"	1 3/4"
Columns/Raf	4	A325	1/2"	1 1/4"

MEMBER TABLE
FRAME LINE 1

MARK	PART	LENGTH
EC-1	12F25C14	18'-5 3/8"
EC-2	12F35C12	20'-0 11/16"
EC-3	12F35C12	20'-0 11/16"
EC-4	12F35C14	18'-5 3/8"
ER-1	10F35C13	30'-1"
ER-2	10F35C13	30'-1"
G-1	8X25Z13	18'-8"
G-2	8X25Z13	19'-11 1/2"
CB-1	1/4" CABLE	28'-1"

FLANGE BRACE TABLE
FRAME LINE 1

▽ ID	PART	LENGTH
FB30	L2X2X14G	2'-6"
FB7-1	L2.5X2.5X3/16	2'-6"

CONNECTION PLATES
FRAME LINE 1

□ID	MARK/PART
1	SC-5

GENERAL NOTES:

1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

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HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JOSHUA BRITTON
CUSTOMER: BRITTON PORTABLE WELDING
OWNER: JOSHUA BRITTON
LOCATION: LILLINGTON, NC 27546

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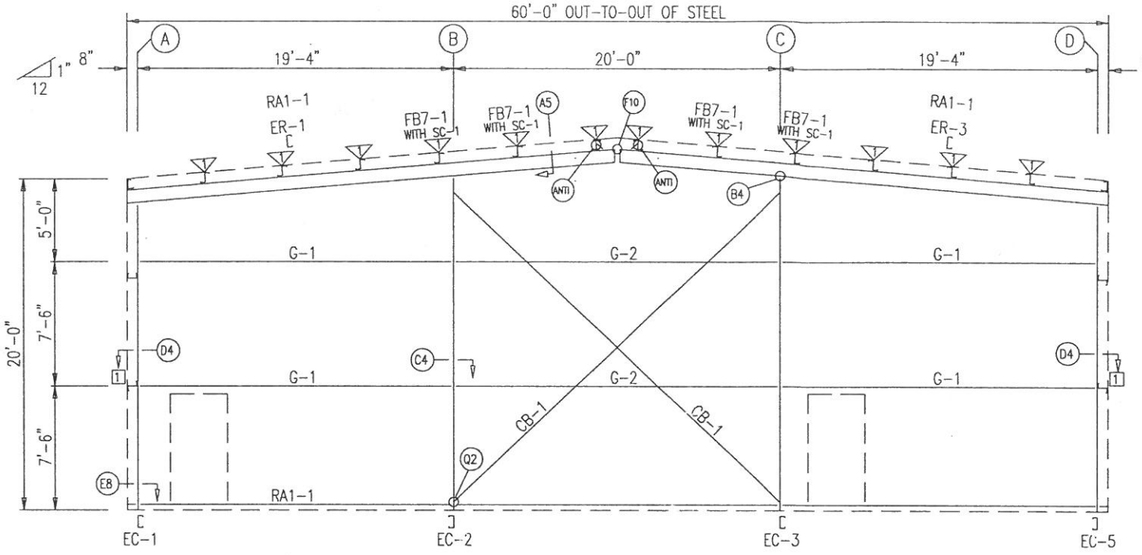
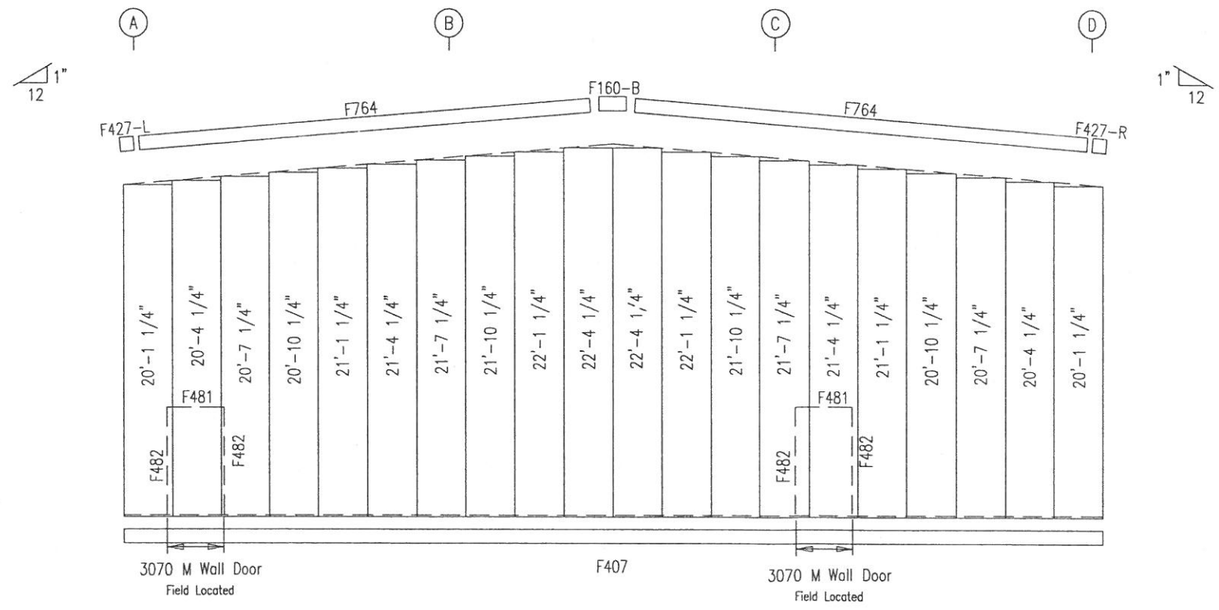
NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR
Apr 02, 2019

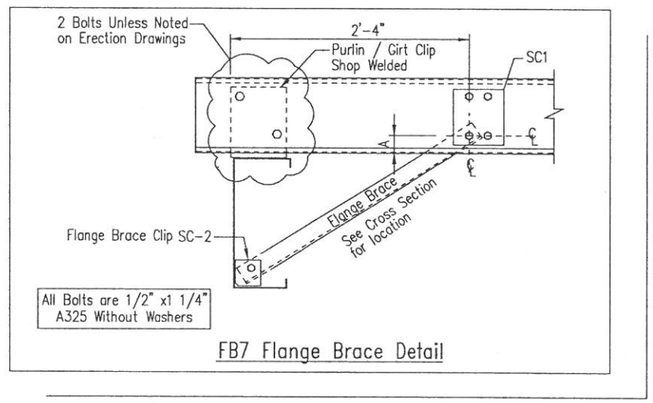


ENDWALL FRAMING: FRAME LINE 5



ENDWALL SHEETING & TRIM: FRAME LINE 5

PANELS: 26 Gauge PBR – Fern Green



FB7 Flange Brace Detail

BEARING FRAME ONLY!

WASHER TO BE USED AT ENDWALL COLUMN TO ENDWALL RAFTER CONNECTION. USE ONE WASHER ON COLUMN SIDE. WASHER NOT NEEDED ON CLIP SIDE.

BOLT TABLE
FRAME LINE 5

LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-3	4	A325	5/8"	1 3/4"
Columns/Raf	4	A325	1/2"	1 1/4"

MEMBER TABLE
FRAME LINE 5

MARK	PART	LENGTH
EC-1	12F25C14	18'-5 3/8"
EC-2	12F35C12	20'-0 11/16"
EC-3	12F35C12	20'-0 11/16"
EC-5	12F25C14	18'-5 3/8"
ER-1	10F35C13	30'-1"
ER-3	10F35C13	30'-1"
G-1	8X25Z13	18'-8"
G-2	8X25Z13	19'-11 1/2"
CB-1	1/4" CABLE	28'-1"

FLANGE BRACE TABLE
FRAME LINE 1

▽ ID	PART	LENGTH
FB30	L2X2X14G	2'-6"
FB7-1	L2.5X2.5X3/16	2'-6"

CONNECTION PLATES
FRAME LINE 5

□ID	MARK/PART
1	SC-5

GENERAL NOTES:

1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
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HERITAGE
BUILDING SYSTEMS
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2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JOSHUA BRITTON
CUSTOMER: BRITTON PORTABLE WELDING
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LOCATION: LILLINGTON, NC 27546

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NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR
Apr 02 2019

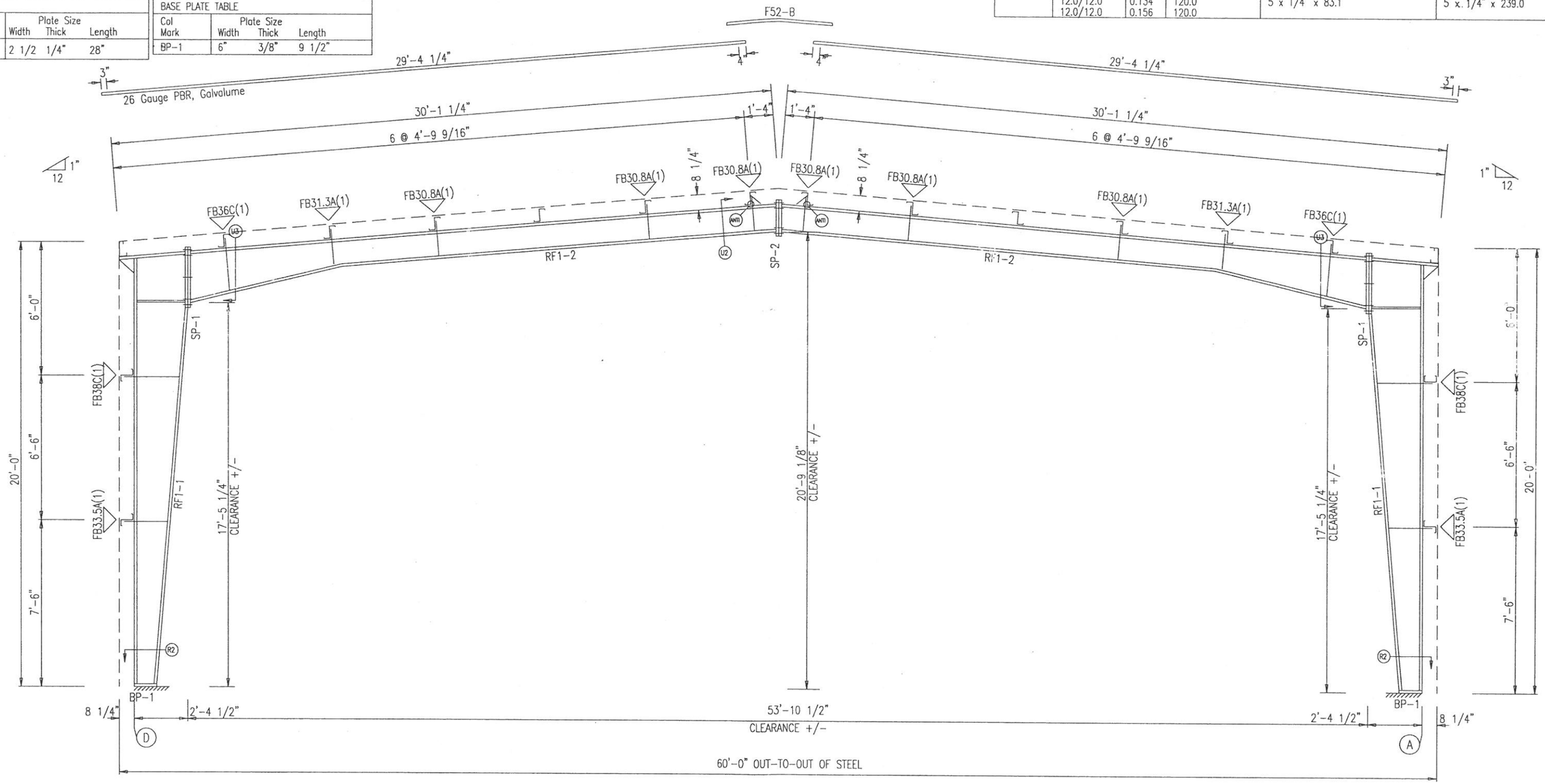
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	2	A325	3/4"	2"	6"	1/2"	2'-8"
SP-2	4	4	0	A325	3/4"	2"	6"	1/2"	1'-6 7/8"

STIFFENER TABLE				
Mark	Stiff Mark	Plate Size Width	Thick	Length
RF1-1	St- 1	2 1/2	1/4"	28"

BASE PLATE TABLE			
Col Mark	Plate Size Width	Thick	Length
BP-1	6"	3/8"	9 1/2"

▽ FLANGE BRACES: BOTH SIDES(UNLESS NOTED)
FBxxA(1): xx=length(in)
A - L2X2X14G
C - L2X2X1/8

MEMBER TABLE				
Mark	Web Depth Start/End	Web Plate Thick	Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF1-1	9.0/20.1	0.134	120.0	5 x 1/4" x 231.8	5 x 1/4" x 206.4
	20.1/28.0	0.156	114.1	5 x 1/4" x 36.6	
RF1-2	25.0/12.0	0.156	85.2	5 x 1/4" x 240.0	5 x 1/4" x 86.2
	12.0/12.0	0.134	120.0	5 x 1/4" x 83.1	5 x. 1/4" x 239.0
	12.0/12.0	0.156	120.0		



FRAME CROSS SECTION: FRAME LINE 2

GENERAL NOTES:

1. SNUG TIGHT - ALL BOLTED JOINTS WITH A325 TYPE 1 BOLTS ARE SPECIFIED AS SNUG-TIGHTENED JOINTS IN ACCORDANCE WITH THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, DECEMBER 31, 2009. PRE-TENSIONING METHODS, INCLUDING TURN-OF-NUT, CALIBRATED WRENCH, TWIST-OFF-TYPE TENSION-CONTROL BOLTS OR DIRECT TENSION INDICATOR ARE NOT REQUIRED. INSTALLATION INSPECTION REQUIREMENTS FOR SNUG TIGHT BOLTS (SPECIFICATION FOR STRUCTURAL JOINTS SECTION 9.1) IS SUGGESTED.
2. ALL FIELD WELDED CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A325 MACHINE BOLTS
3. INSTALL ALL FLANGE BRACES ON COLUMN AND RAFTER AS SHOWN

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JOSHUA BRITTON
CUSTOMER: BRITTON PORTABLE WELDING
OWNER: JOSHUA BRITTON
LOCATION: LILLINGTON, NC 27546

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	3/28/19	N.T.S.	1	A	17-B-10785	E7	0

NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR
Apr 02, 2019

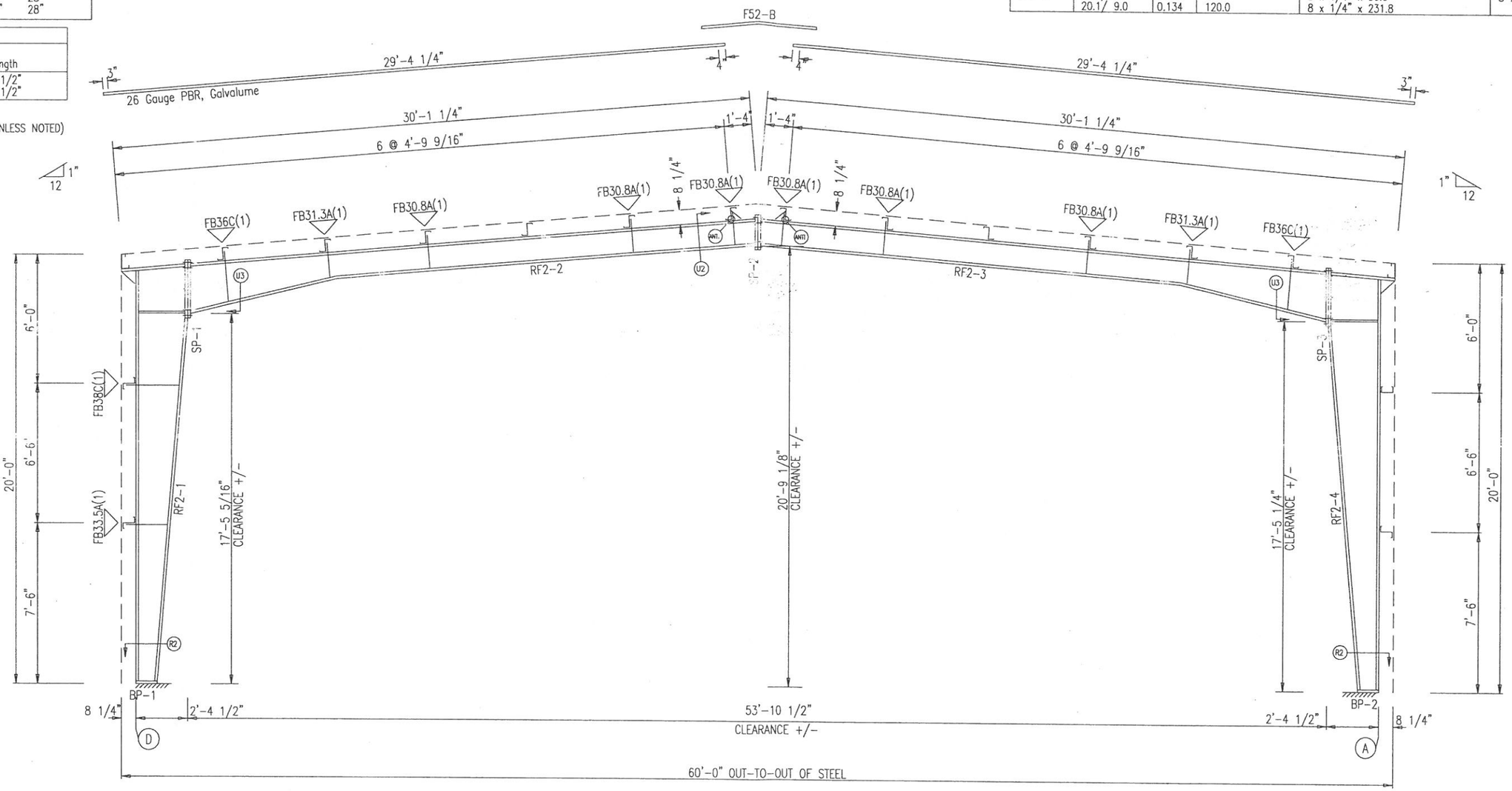
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	2	A325	3/4"	2 1/4"	6"	5/8"	2'-8"
SP-2	4	4	0	A325	3/4"	2"	6"	1/2"	1'-6 7/8"
SP-3	4	4	2	A325	3/4"	2"	8"	1/2"	2'-8"

STIFFENER TABLE				
Mark	Stiff Mark	Plate Size Width	Thick	Length
RF2-1	St- 1	2 1/2	1/4"	28"
RF2-4	St- 1	4"	1/4"	28"

BASE PLATE TABLE			
Col Mark	Plate Size Width	Thick	Length
BP-1	6"	3/8"	9 1/2"
BP-2	8"	3/8"	9 1/2"

▽FLANGE BRACES: BOTH SIDES(UNLESS NOTED)
FBxxA(1): xx=length(in)
A - L2X2X14G
C - L2X2X1/8

MEMBER TABLE					
Mark	Web Depth Start/End	Web Plate Thick	Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF2-1	9.0/20.1	0.134	120.0	5 x 1/4" x 231.8	5 x 1/4" x 206.4
	20.1/28.0	0.156	114.1	5 x 1/4" x 36.6	
RF2-2	25.0/12.0	0.156	84.9	5 x 1/4" x 240.0	5 x 1/4" x 85.9
	12.0/12.0	0.134	120.0	5 x 1/4" x 82.8	5 x 1/4" x 239.0
	12.0/12.0	0.156	120.0		
RF2-3	12.0/12.0	0.156	120.0	5 x 1/4" x 83.1	5 x 1/4" x 239.0
	12.0/12.0	0.134	120.0	5 x 1/4" x 240.0	5 x 1/4" x 86.2
	12.0/25.0	0.156	85.2		
RF2-4	28.0/20.1	0.185	114.1	8 x 1/4" x 36.6	8 x 1/4" x 206.4
	20.1/ 9.0	0.134	120.0	8 x 1/4" x 231.8	



FRAME CROSS SECTION: FRAME LINE 3 4

GENERAL NOTES:

1. SNUG TIGHT - ALL BOLTED JOINTS WITH A325 TYPE 1 BOLTS ARE SPECIFIED AS SNUG-TIGHTENED JOINTS IN ACCORDANCE WITH THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, DECEMBER 31, 2009. PRE-TENSIONING METHODS, INCLUDING TURN-OF-NUT, CALIBRATED WRENCH, TWIST-OFF-TYPE TENSION-CONTROL BOLTS OR DIRECT TENSION INDICATOR ARE NOT REQUIRED. INSTALLATION INSPECTION REQUIREMENTS FOR SNUG TIGHT BOLTS (SPECIFICATION FOR STRUCTURAL JOINTS SECTION 9.1) IS SUGGESTED.
2. ALL FIELD WELDED CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A325 MACHINE BOLTS
3. INSTALL ALL FLANGE BRACES ON COLUMN AND RAFTER AS SHOWN

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
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HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JOSHUA BRITTON
CUSTOMER: BRITTON PORTABLE WELDING
OWNER: JOSHUA BRITTON
LOCATION: LILLINGTON, NC 27546

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
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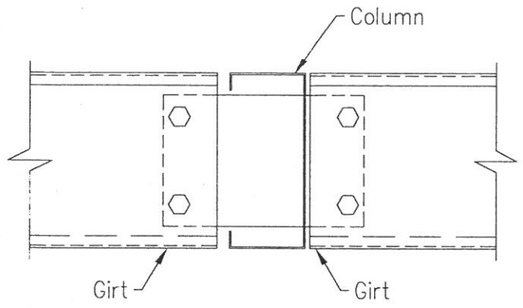
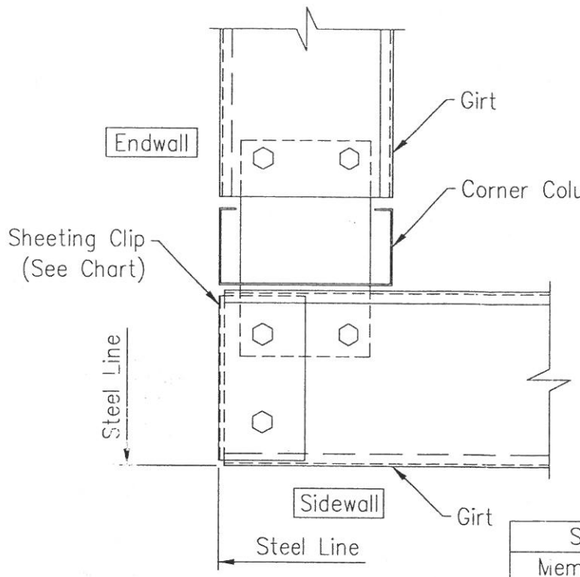
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 033305 AARON K. BATCHELLOR
Apr 02, 2019

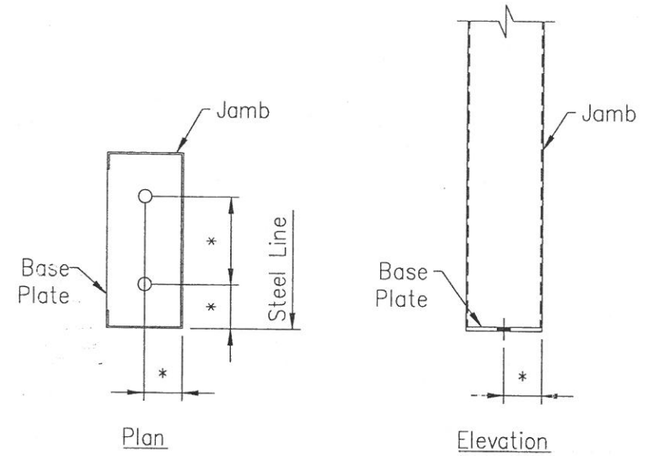


C4	Girt To Cold Form Coiumn	Date Jun '17
Page MB-C4		Rev 00



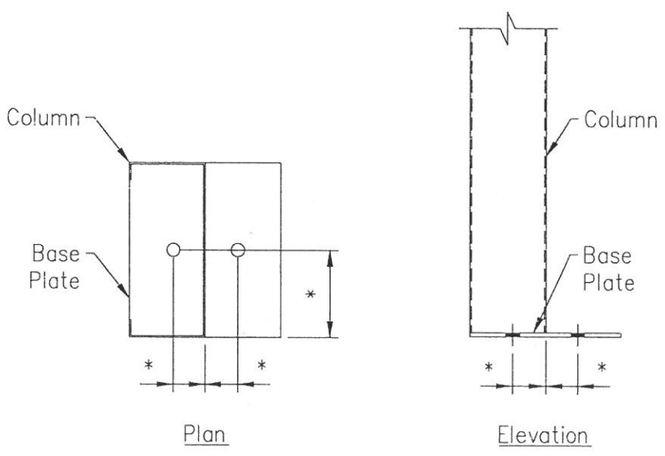
Sheeting Clip	
Member	Piece Mark
8"	SC5
10"	SC54
12"	SC55

D4	Girt To Cold Form Corner Column	Date Dec '17
Page MB-D4		Rev 00



* – Refer To Anchor Rod Setting Plan For Dimension

E5	Door Jamb Base Plate	Date Dec '18
Page MB-E5		Rev 01



* – Refer To Anchor Rod Setting Plan For Dimension

E8	Cold Form Endwall Column Base Plate	Date Dec '18
Page MB-E8		Rev 01

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

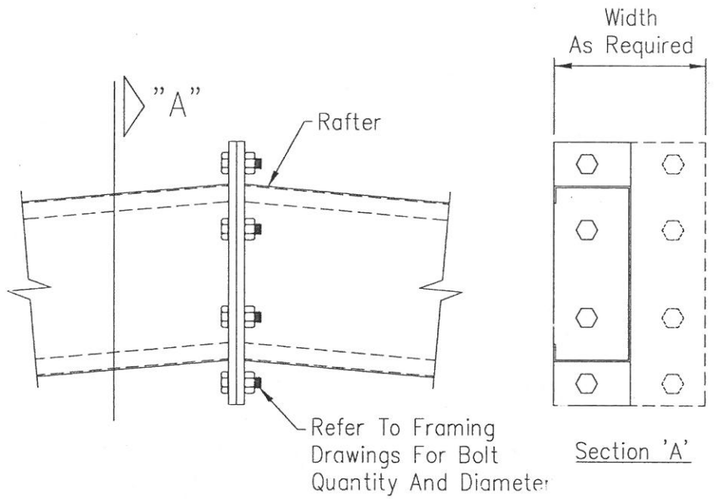
HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JOSHUA BRITTON
CUSTOMER: BRITTON PORTABLE WELDING
OWNER: JOSHUA BRITTON
LOCATION: LILLINGTON, NC 27546

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	3/28/19	N.T.S.	1	A	17-B-10785	DET1	0

NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR
Apr 02, 2019



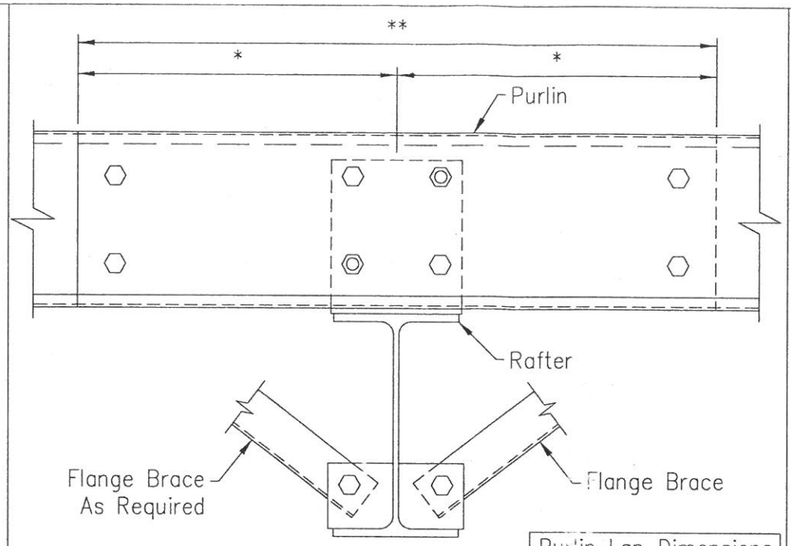
F10

Page MB-F10

Endwall Bearing Frame – Cold Form Rafter Splice At Ridge

Date Jun '17

Rev 00



Purlin Lap Dimensions	
*	**
1'–5¾"	2'–11½"
2'–5¾"	4'–11½"
3'–1¾"	6'–3½"

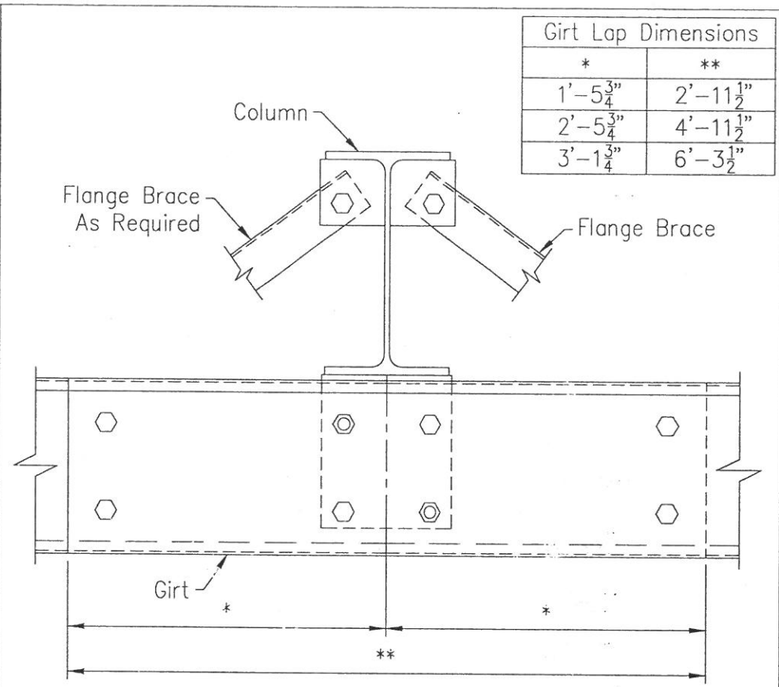
G2

Page MB-G2

Purlin To Rigid Frame

Date Jun '17

Rev 00



Girt Lap Dimensions	
*	**
1'–5¾"	2'–11½"
2'–5¾"	4'–11½"
3'–1¾"	6'–3½"

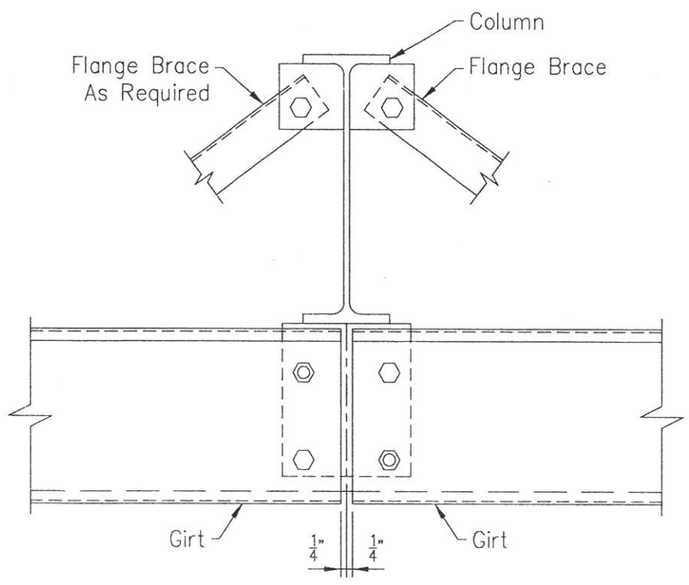
H2

Page MB-H2

Girt To Rigid Frame

Date Jun '17

Rev 00



H4

Page MB-H4

Girt To Rigid Frame

Date Jun '17

Rev 00

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0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

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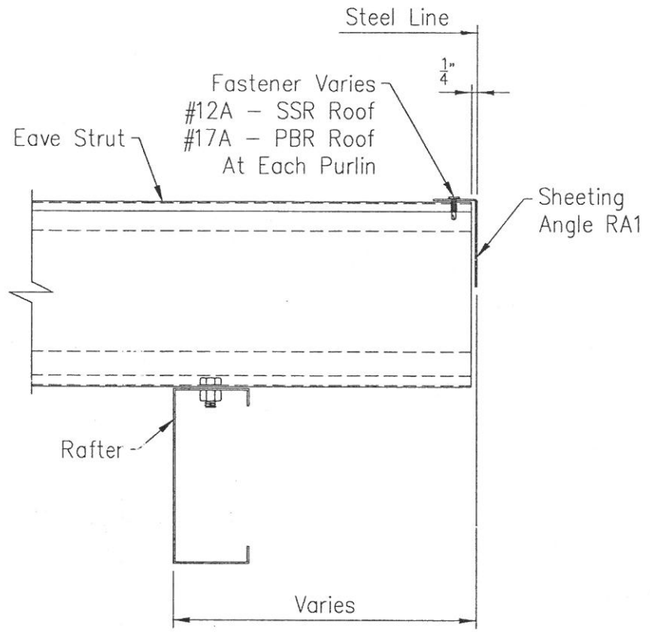
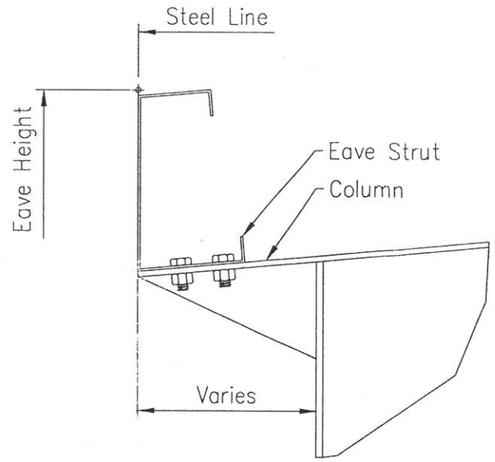
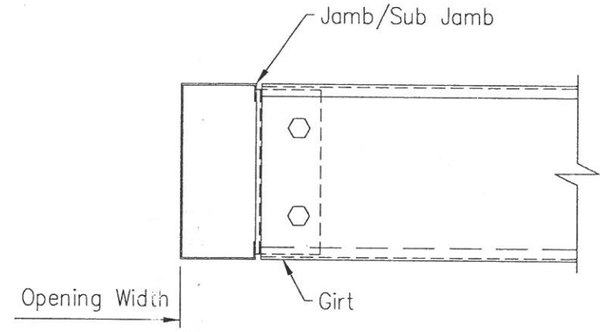
	3/28/19	N.T.S.	1	A	17–B–10785	DET2	0

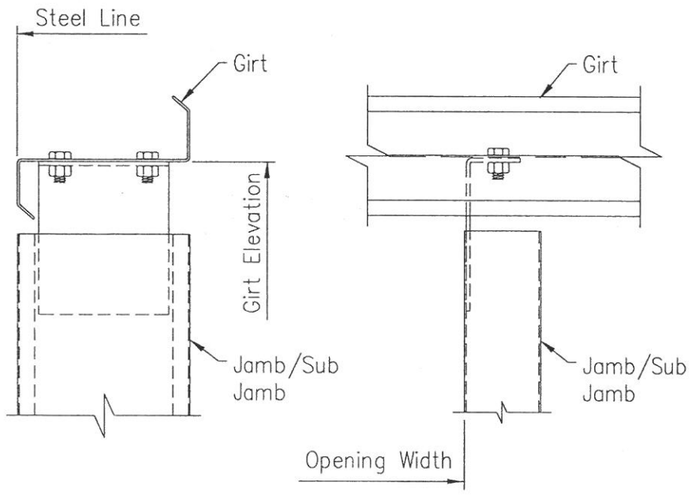
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 033305 AARON K. BATCHELLOR Apr 02, 2019



I6	Low Side Eave Strut To Bearing Frame – Cold Form	Date Jun '17	J2	Eave Strut To By–Pass Rigid Frame At Interior	Date Dec '17	K3	Girt To Single Cold Form Jamb/Sub Jamb	Date Dec '17
Page MB–I6		Rev 00	Page MB–J2		Rev 00	Page MB–K3		Rev 00







L8	Single Cold Form Jamb/ Sub Jamb To Girt	Date Jun '17
Page MB–L8		Rev 00

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

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CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	3/28/19	N.T.S.	1	A	17–B–10785	DET3	0

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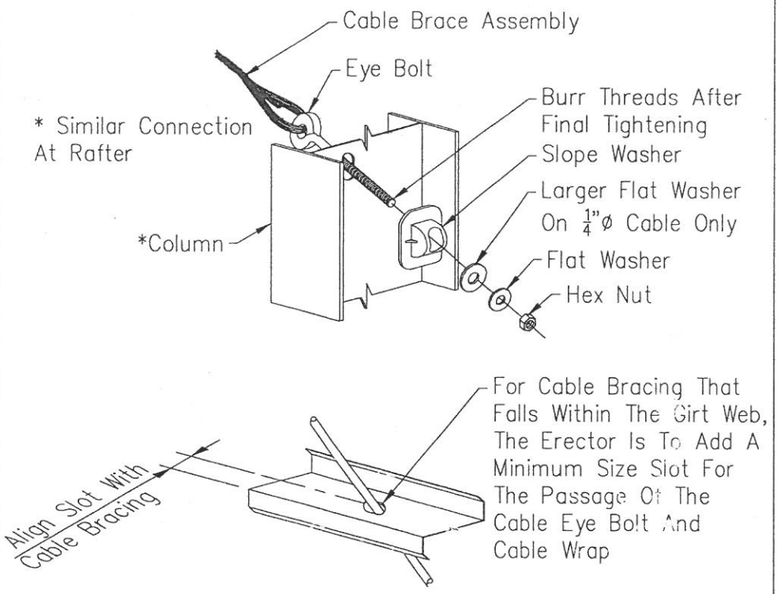
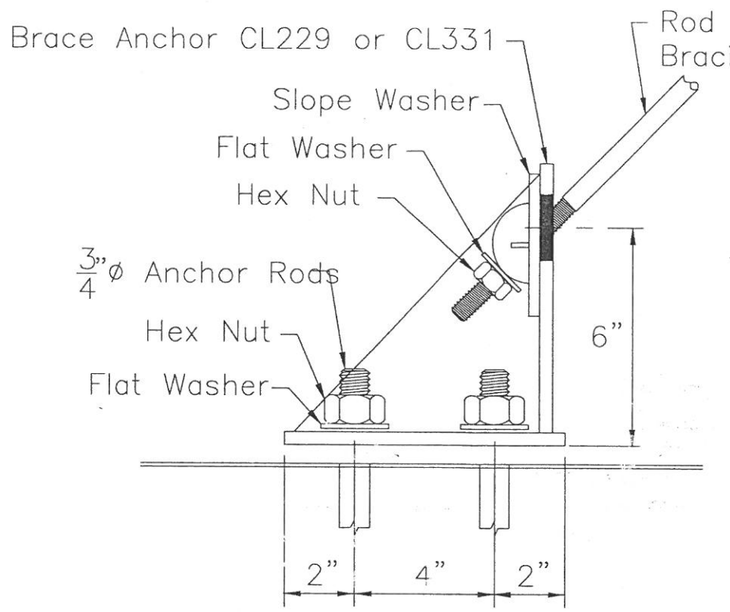
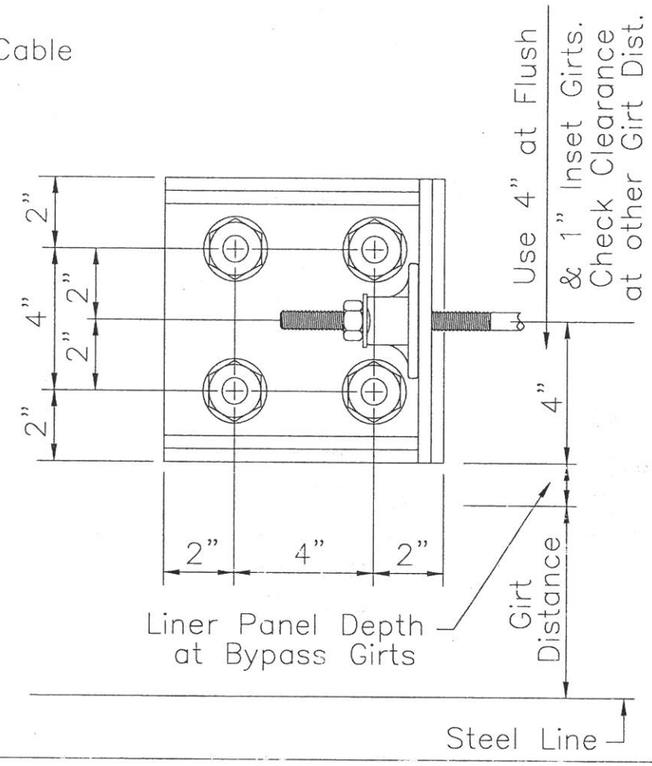
Apr 02, 2019

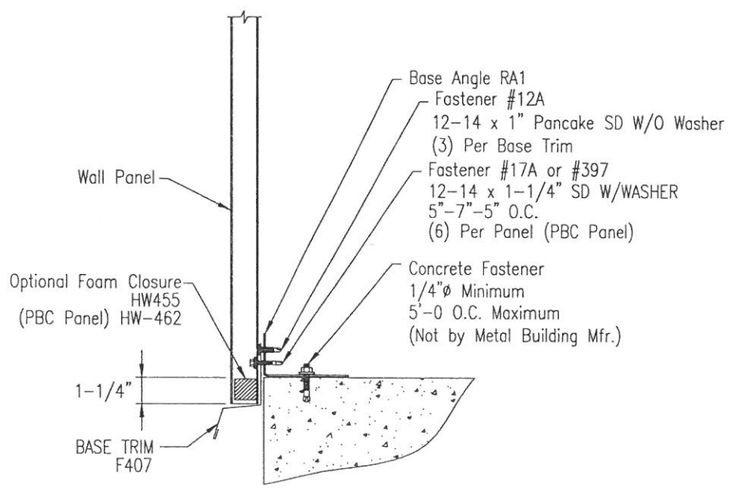


Q2	Cable Brace Attachment At Web	Date Mar '18
Page MB–Q2		Rev 01



Q6 DIAGONAL BRACE CLIP TO FLOOR DETAIL





Base Angle Without Panel Recess
With Base Trim

TRIM_60

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

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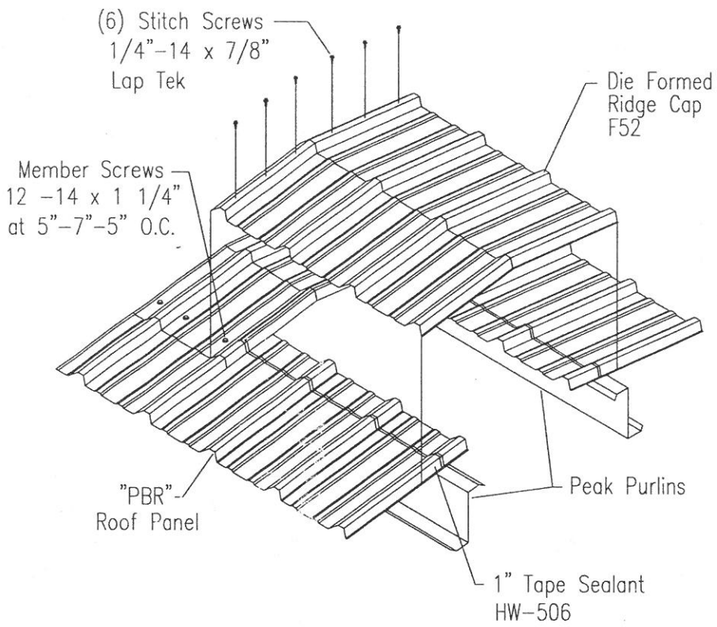
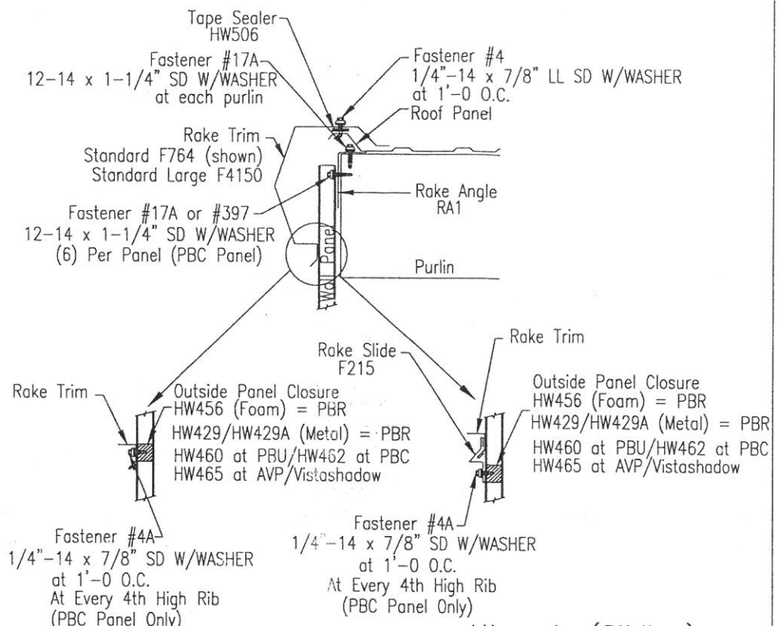
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	3/28/19	N.T.S.	1	A	17–B–10785	DET4	0

NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR
Apr 02, 2019



"PBR" ROOF FIXED RIDGE DETAIL

Trim_80

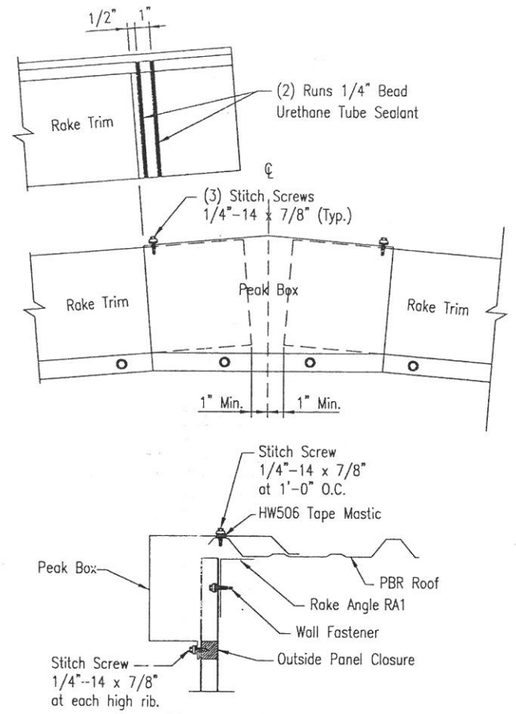


Standard (Fixed)
For roof runs 100' or less

Alternate (Sliding)
For roof runs greater than 100'

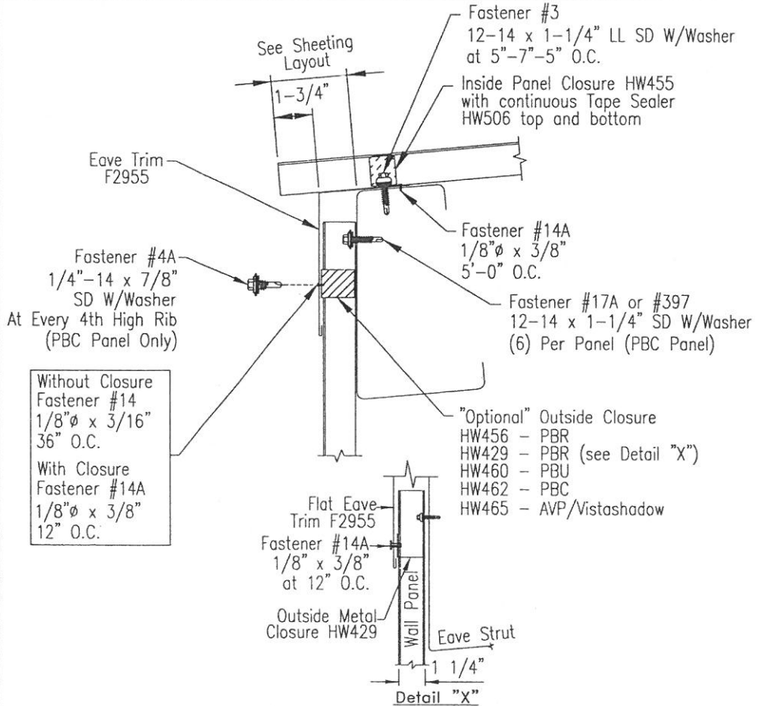
Rake Detail - PBR Roof

Classic Standard and Standard Large Rake Trim - Sheeted Wall TRIM_104



Standard Peak Box Detail
PBR Roof

TRIM_106



Low Eave Detail - PBR Roof

Flat Eave Trim - Sheeted Wall TRIM_120

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

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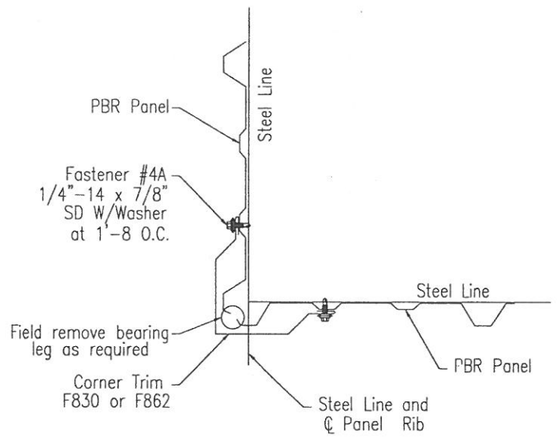
	3/28/19	N.T.S.	1	A	17-B-10785	DET5	0

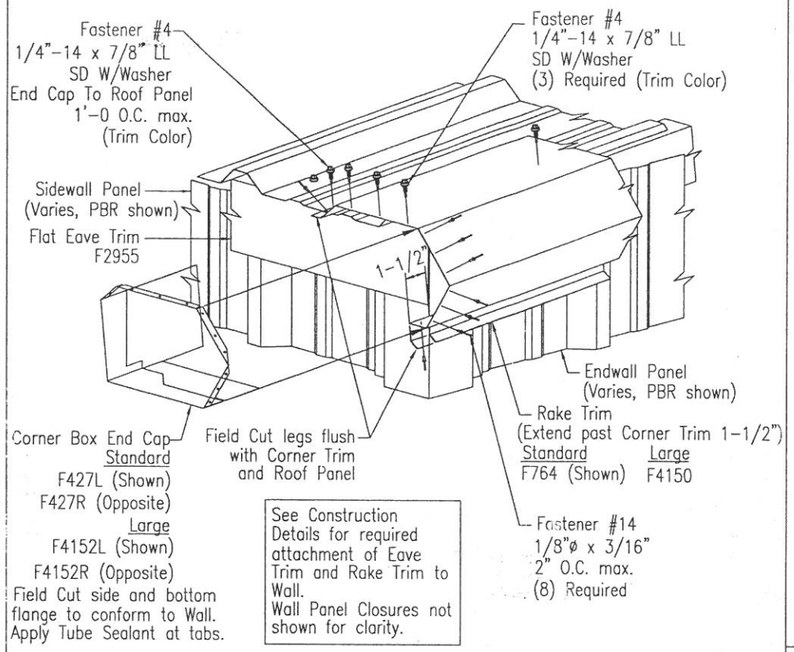
NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR Apr 02, 2019



Note:
Standard panel location for Start and End panels is ℄ panel rib at steel line. Refer to erection Drawings for panel location and Corner Trim piece mark.

Outside Corner Trim – PBR Wall Panel

TRIM_186

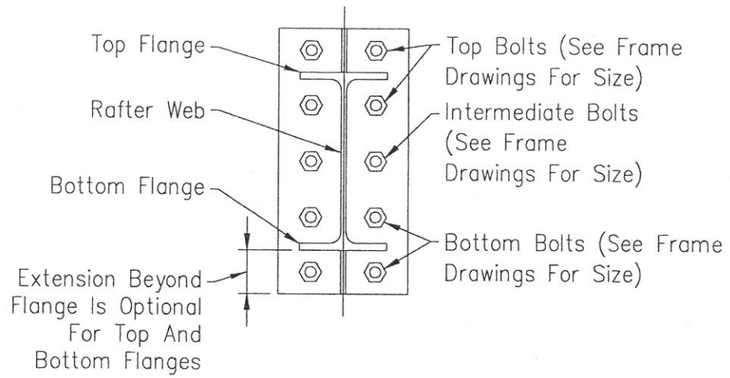


See Construction Details for required attachment of Eave Trim and Rake Trim to Wall.
Wall Panel Closures not shown for clarity.

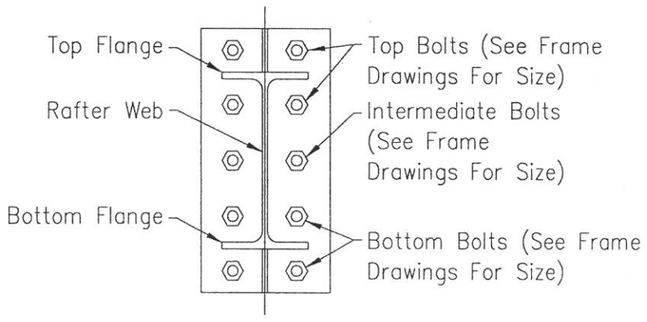
Low Eave Rake Corner – PBR Roof

Standard and Standard Large Rake

TRIM_203



U2	Bolts At Rigid Frame Ridge Rafter Connection	Date Jun '17
Page MB–U2		Rev 00



U3	Bolts At Rigid Frame Rafter To Column Connection	Date Jun '17
Page MB–U3		Rev 00

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

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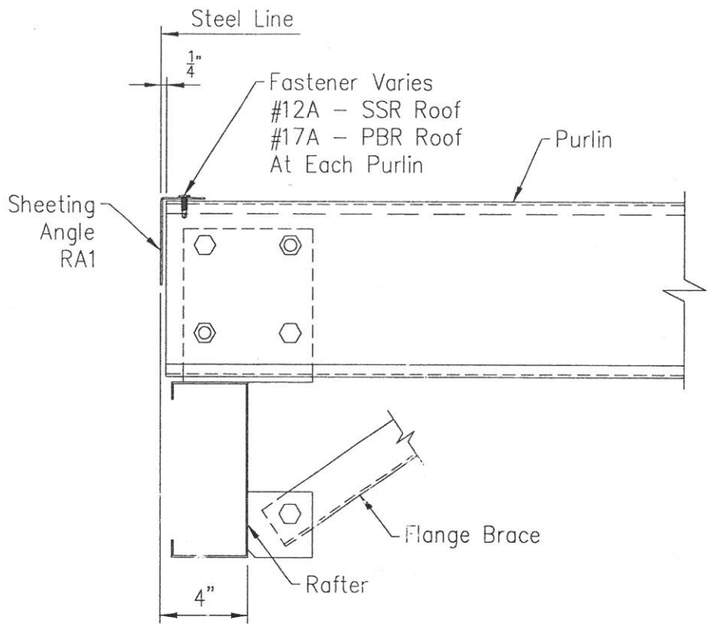
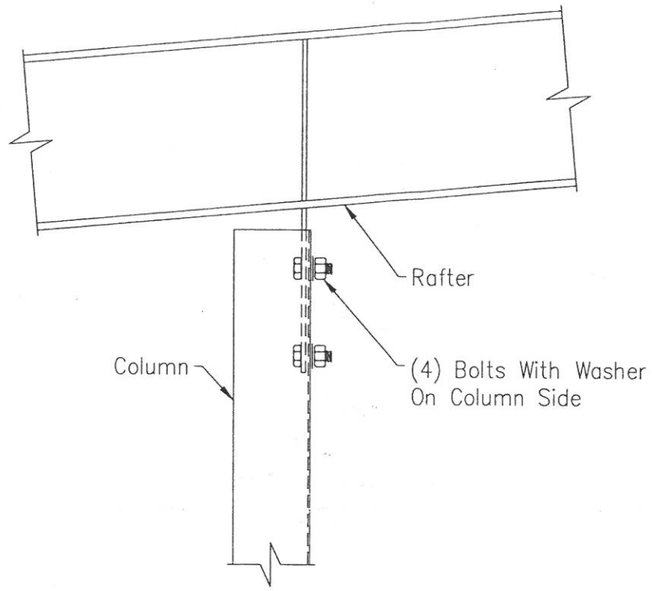
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	3/28/19	N.T.S.	1	A	17–B–10785	DET6	0

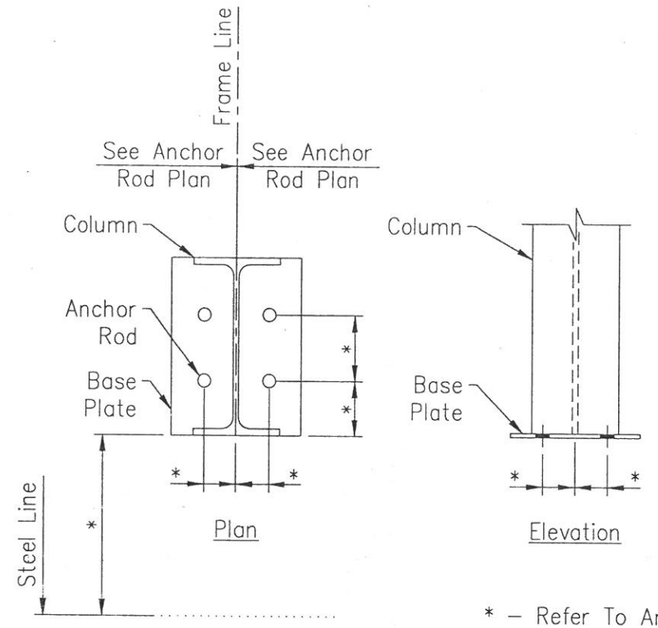
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 033305 AARON K. BATCHELLOR Apr 02, 2019



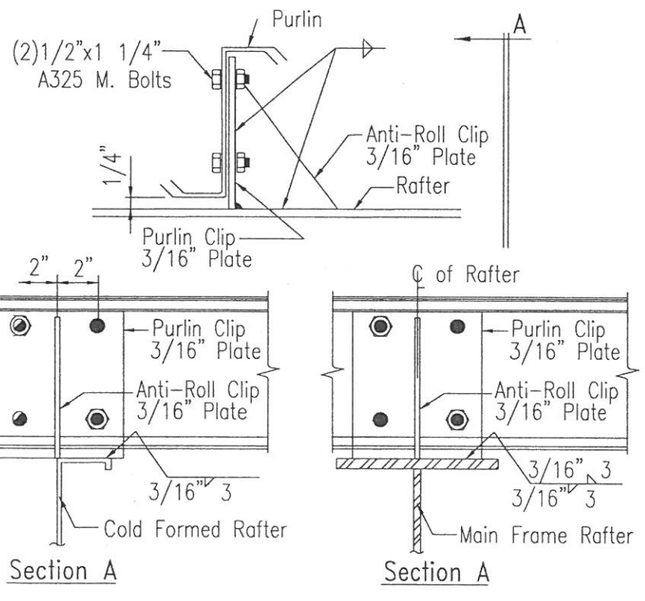
A5	Purlin To Bearing Frame Single Cold Form Rafter	Date Jun '17
Page MB–A5		Rev 00



B4	Cold Form Endwall Column To Rafter	Date Jun '17
Page MB–B4		Rev 00



R2	Anchor Rods At Frame Column	Date Dec '17
Page MB–R2		Rev 00



ANTI

PURLIN ANTI–ROLL CLIP

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

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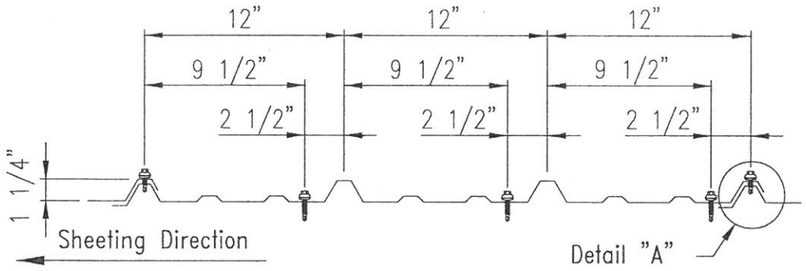
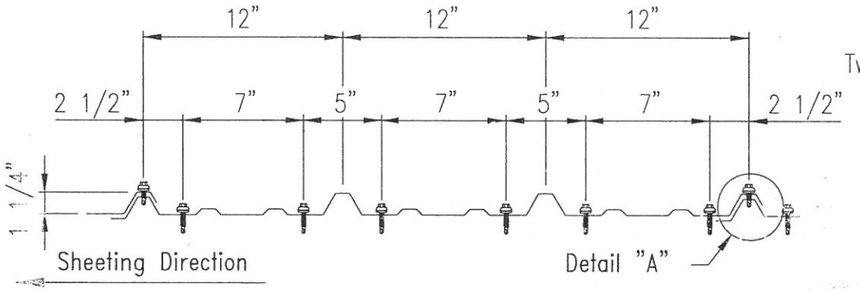
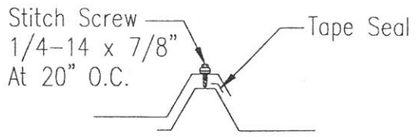
Apr 02, 2019



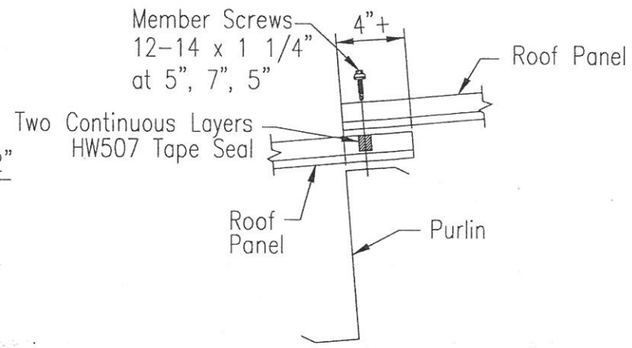
All Roof Members Except As Noted Below



At Eave Strut, Panel End Lap, and Peak Purlin



Detail "A"



Section Thru Panel End Laps

Fastener Location for "PBR" Roof Panel

TRIM_175

Standard Grade

Description	Fastener Number	Application
1/4"-14 x 7/8"	4A	Stitch & Trim Screw
12-14 x 1 1/4"	17A	Member Screw
12-14 x 1 1/2"	17B	Member Screw
12-14 x 2"	28	Member Screw

Long Life

Description	Fastener Number	Application
1/4"-14 x 7/8"	4	Stitch & Trim Screw
12-14 x 1 1/4"	3	Member Screw
12-14 x 1 1/2"	3A	Member Screw
12-14 x 2"	58	Member Screw

Note:

Standard details call for 1 1/4" fasteners as member screws by default.

Member screws may be 1 1/4", 1 1/2", or 2" depending on insulation, application, or customer request.

Self-Drilling Screw Application

SCRW1

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

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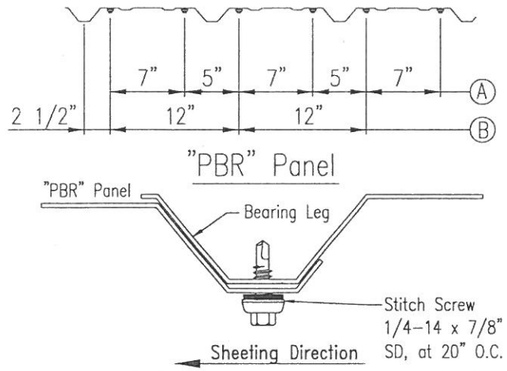
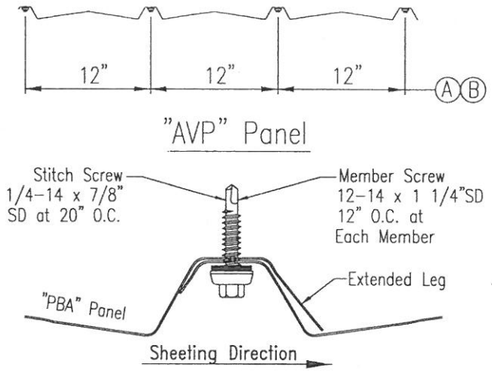
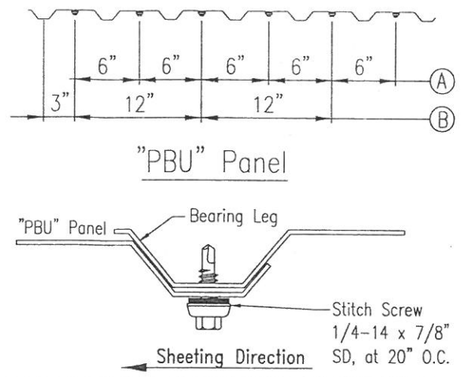
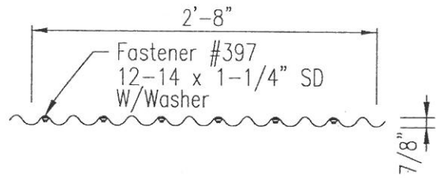
NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR
Apr 02, 2019

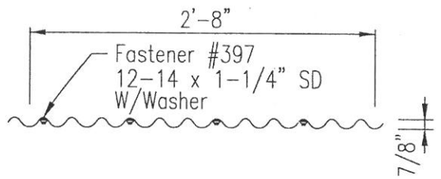




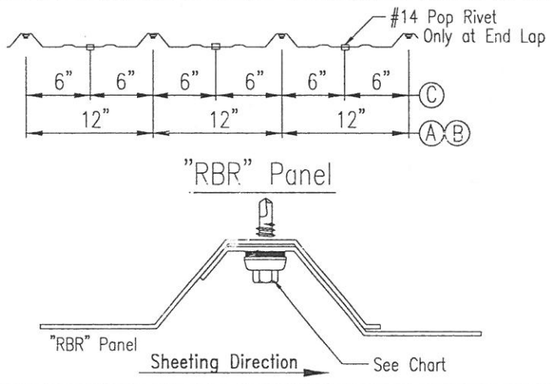




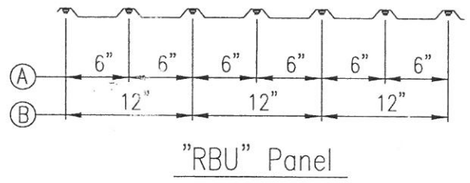
PBC Fastener Location At Panel Ends

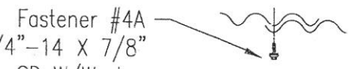


PBC Fastener Location At Intermediate Supports



Ⓐ = At Base, Rake, Eave, and Mid Span End Laps
Ⓑ = At Intermediate Member, and at Optional Liner Panel
Ⓒ = At Panel End Lap When Required





PBC Panel Sidelap

Fastener Location for Panel At Wall

TRIM_174

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JOSHUA BRITTON
CUSTOMER: BRITTON PORTABLE WELDING
OWNER: JOSHUA BRITTON
LOCATION: LILLINGTON, NC 27546

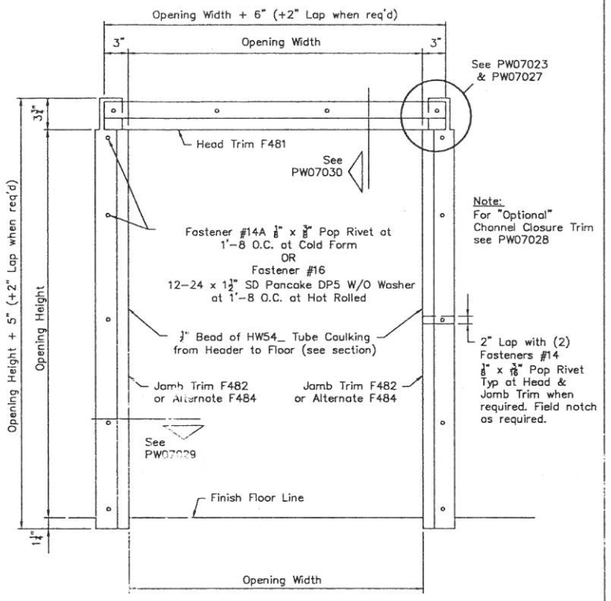
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	3/28/19	N.T.S.	1	A	17-B-10785	DET9	0

NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR
Apr 02, 2019

PBR Wall Panel - Three Sided Framed Opening
Trim Installation with Field Notch Panel at Head Trim

Page PW07022 | Date Sep '14 | Rev. 03

Note: Trim Installation can be done by Field Notch Panel as shown on PW07022 & PW07023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW07024 & PW07025.



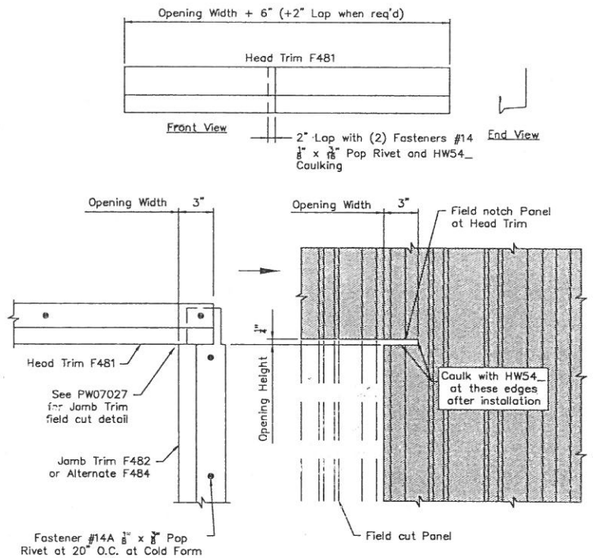
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Field measure Opening Width and Height before making field cuts and adjust cut dimensions accordingly.

PBR Wall Panel - Three Sided Framed Opening
Field Notch Panel at Head Trim

Page PW07023 | Date Sep '14 | Rev. 03

Note: Trim Installation can be done by Field Notch Panel as shown on PW07022 & PW07023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW07024 & PW07025.



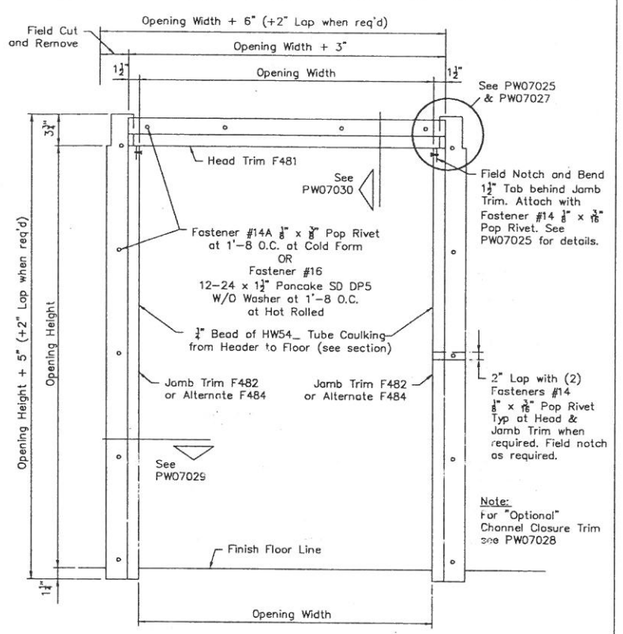
Note: All trim is to be installed BEFORE blanket insulation is applied to walls

Note: Panel position is shown with Panel Rib and Opening on 1'-0 module. Location of Rib may vary depending on the Opening Width and location. Field measure before cutting Panel and Trim.

PBR Wall Panel - Three Sided Framed Opening
Trim Installation with Field Notch and Bend Tabs at Head Trim

Page PW07024 | Date Sep '14 | Rev. 03

Note: Trim Installation can be done by Field Notch Panel as shown on PW07022 & PW07023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW07024 & PW07025.



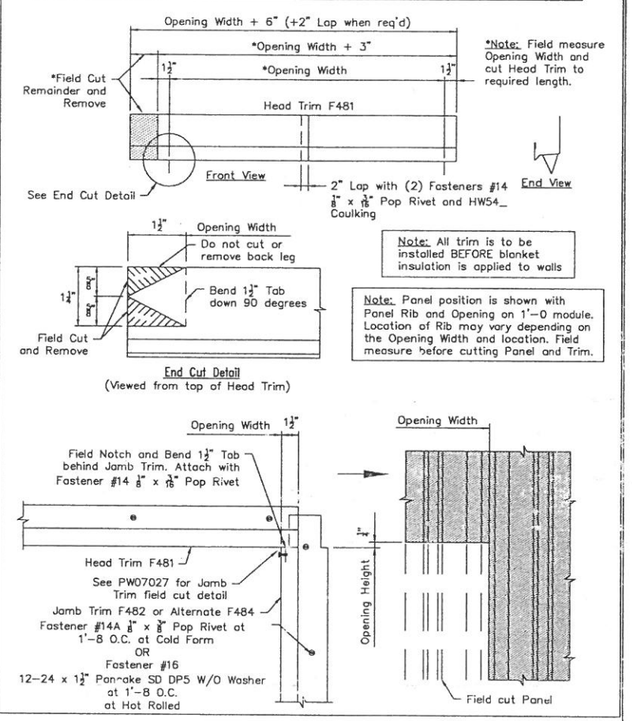
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Field measure Opening Width and Height before making field cuts and adjust cut dimensions accordingly.

PBR Wall Panel - Three Sided Framed Opening
Field Notch and Bend Tabs at Head Trim

Page PW07025 | Date Sep '14 | Rev. 03

Note: Trim Installation can be done by Field Notch Panel as shown on PW07022 & PW07023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW07024 & PW07025.



ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
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HERITAGE BUILDING SYSTEMS
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OWNER: JOSHUA BRITTON
LOCATION: LILLINGTON, NC 27546

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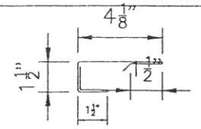
	3/28/19	N.T.S.	1	A	17-B-10785	DET10	0

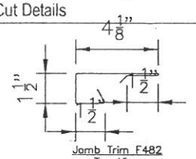
NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR Apr 02 2019

PBR Wall Panel - Three Sided Framed Opening
Jamb Trim Field Cut Details

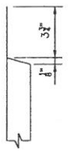
Page PW07027 | Date Sep '14 | Rev. 01



Alternate Jamb Trim F484
Top View

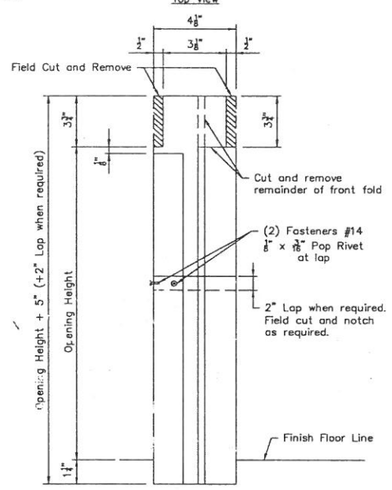


Jamb Trim F482
Top View



Side View at Head Trim

Side View at Sill Trim

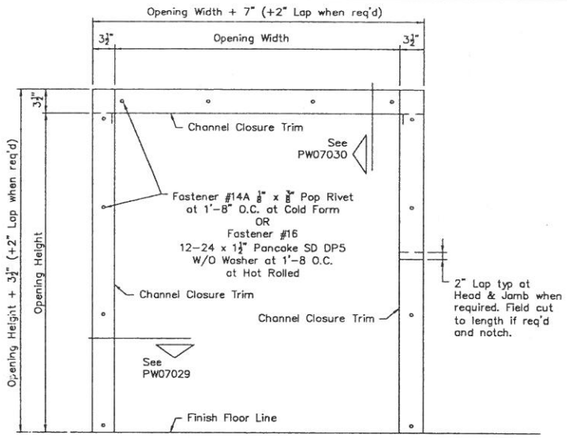


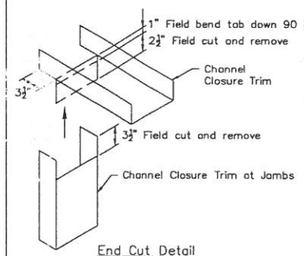
Jamb Trim F482 and
Alternate Jamb Trim F484
Front View
Right Jamb Trim as shown
Left Jamb Trim opposite hand

Note: Field measure Opening Height before making field cuts and adjust cut dimensions accordingly.

PBR Wall Panel - Three Sided Framed Opening
"Optional" Channel Closure Trim

Page PW07028 | Date Mar '15 | Rev. 03





End Cut Detail

Optional
Channel Closure Trim Piece Mark

F981	– 8" Member	F2993	– 10 1/4" Member
F2994	– 8 1/4" Member	F169	– 12" Member
F982	– 10" Member	F2995	– 12 1/2" Member

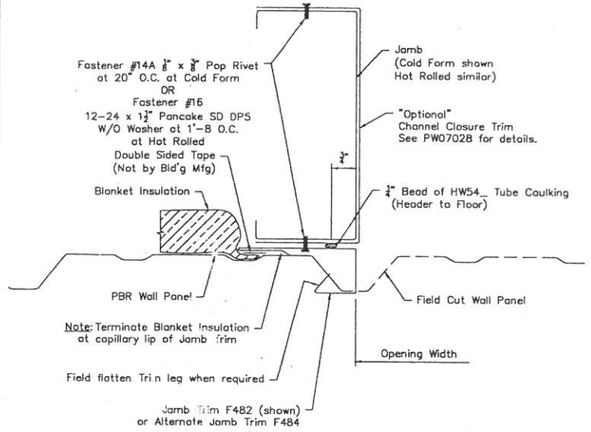
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

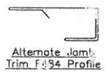
Note: Field measure Opening Width and Height before making field cuts and adjust cut dimensions accordingly.

Note: The interior leg of the Channel Closure Trim is to be oriented (±1/8") to match the interior leg of the Header or Jamb.

PBR Wall Panel - Three Sided Framed Opening
Jamb Trim Installation

Page PW07029 | Date May '14 | Rev. 02





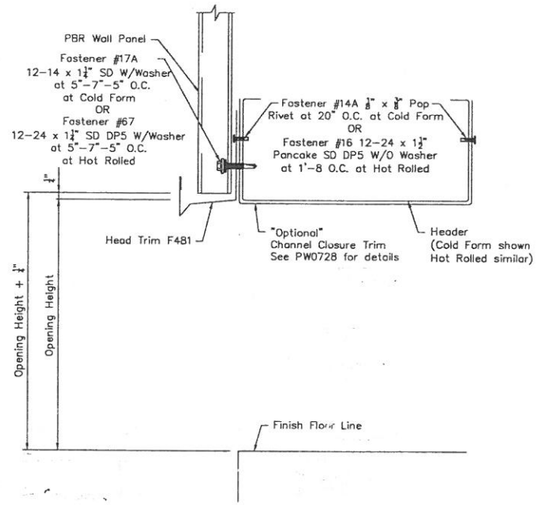
Alternate Jamb Trim F484 Profile

Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Panel position is shown with Panel Rib and Opening on 1'-0 module. Location of Rib may vary depending on the Opening Width and location. Field measure before cutting Panel and Trim.

PBR Wall Panel - Three Sided Framed Opening
Head Trim Installation

Page PW07030 | Date Mar '14 | Rev. 01



Note: All trim is to be installed BEFORE blanket insulation is applied to walls

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

HERITAGE
BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JOSHUA BRITTON
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OWNER: JOSHUA BRITTON
LOCATION: LILLINGTON, NC 27546

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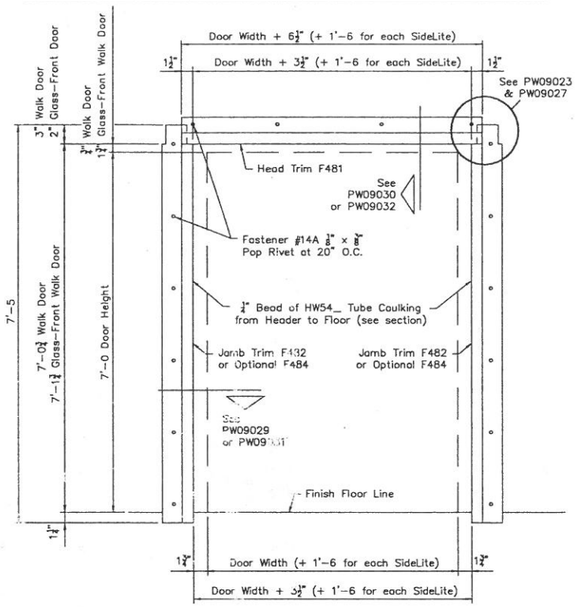
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 033305 AARON K. BATCHELLOR Apr 02, 2019

PBR Wall Panel - Walk Door & Glass-Front Walk Door
Trim Installation with Field Notch Panel at Head Trim

Page PW09022 | Date May '14 | Rev. 01

Note: Trim Installation can be done by Field Notch Panel as shown on PW09022 & PW09023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW09024 & PW09025.



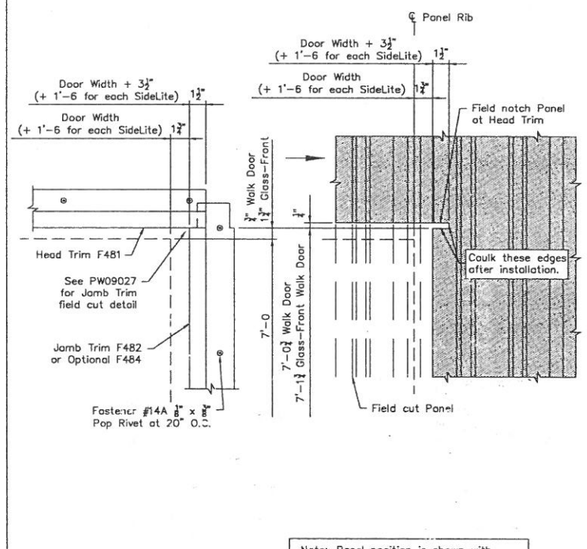
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Field measure Door Width and Height before making field cuts and adjust cut dimensions accordingly.

PBR Wall Panel - Walk Door & Glass- Front Walk Door
Field Notch Panel at Head Trim

Page PW09023 | Date Dec '11 | Rev. 00

Note: Trim Installation can be done by Field Notch Panel as shown on PW09022 & PW09023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW09024 & PW09025.



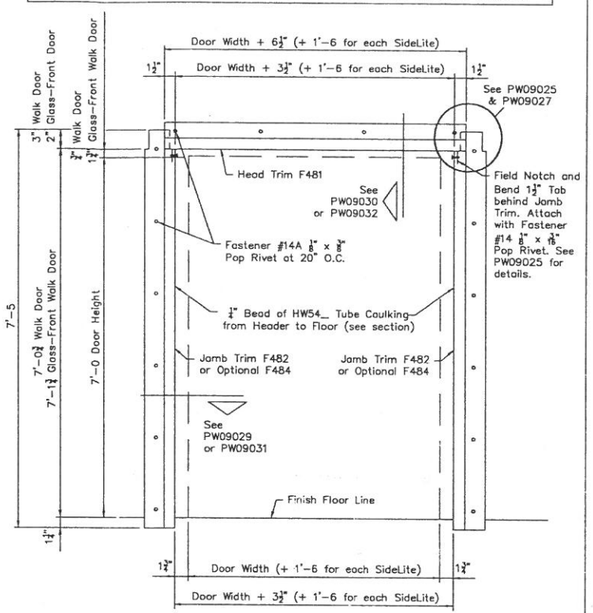
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Panel position is shown with Panel Rib and Door on 1'-0 module. Location of Rib may vary depending on the Door Width and location. Field measure before cutting Panel and Trim.

PBR Wall Panel - Walk Door & Glass-Front Walk Door
Trim Installation with Field Notch and Bend Tabs at Head Trim

Page PW09024 | Date May '14 | Rev. 01

Note: Trim Installation can be done by Field Notch Panel as shown on PW09022 & PW09023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW09024 & PW09025.



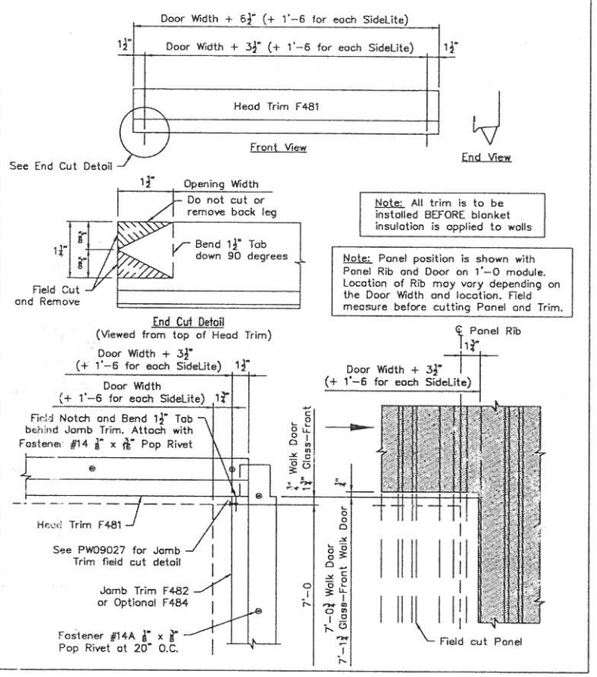
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Field measure Door Width and Height before making field cuts and adjust cut dimensions accordingly.

PBR Wall Panel - Walk Door & Glass-Front Walk Door
Field Notch and Bend Tabs at Head Trim

Page PW09025 | Date Dec '11 | Rev. 00

Note: Trim Installation can be done by Field Notch Panel as shown on PW09022 & PW09023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW09024 & PW09025.



Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Panel position is shown with Panel Rib and Door on 1'-0 module. Location of Rib may vary depending on the Door Width and location. Field measure before cutting Panel and Trim.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JOSHUA BRITTON
CUSTOMER: BRITTON PORTABLE WELDING
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LOCATION: LILLINGTON, NC 27546

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
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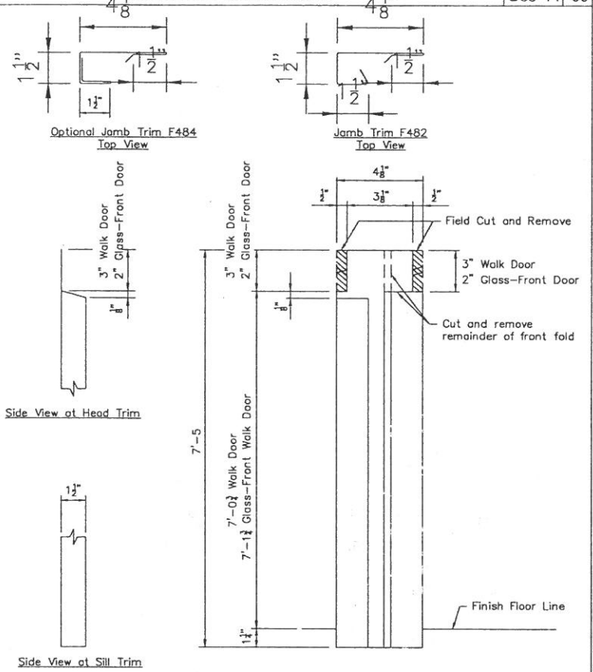
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 033305 AARON K. BATCHELLOR
Apr 02, 2019

PBR Wall Panel - Walk Door & Glass-Front Walk Door Jamb Trim Field Cut Details

Page PW09027 | Date Dec '11 | Rev. 00

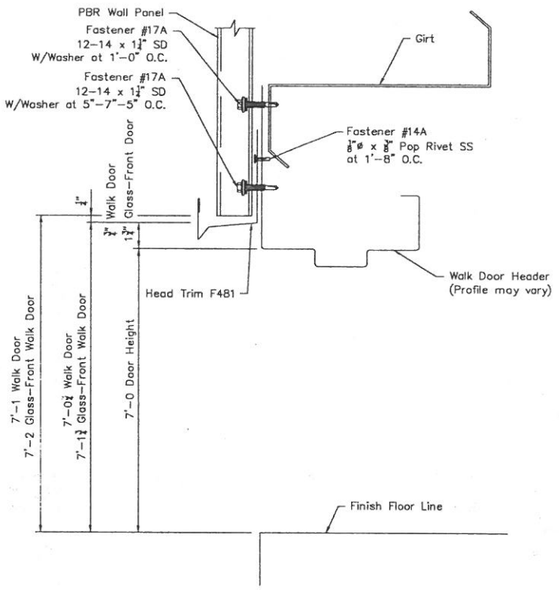


Note: Field measure Door Height before making field cuts and adjust cut dimensions accordingly so that Jamb Trim fits to Head Trim & at 1½" below Finish Floor Line.

Jamb Trim F482 and Optional Jamb Trim F484
Front View
Right Jamb Trim as shown
Left Jamb Trim opposite hand

PBR Wall Panel - Pre-Assembled Walk Door & Glass-Front Walk Door Head Trim Installation

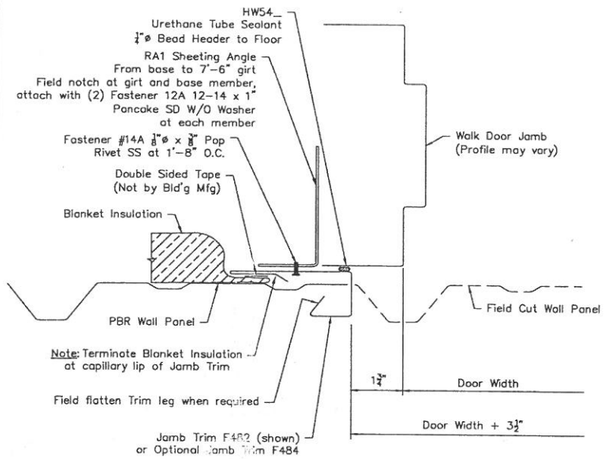
Page PW09030 | Date Mar '15 | Rev. 02



Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

PBR Wall Panel - Knock Down Walk Door Jamb Trim Installation

Page PW09031 | Date Mar '15 | Rev. 02



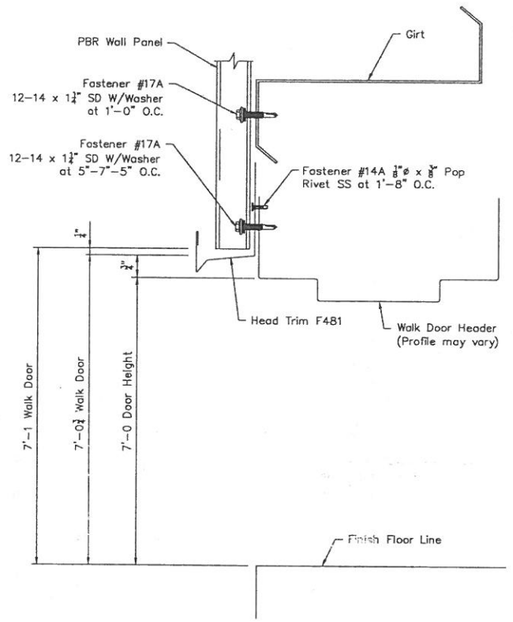
Optional Jamb Trim F484 Profile

Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Panel position is shown with Panel Rib and Door on 1'-0 module. Location of Rib may vary depending on the Door Width and location. Field measure before cutting Panel and Trim.

PBR Wall Panel - Knock Down Walk Door Head Trim Installation

Page PW09032 | Date Mar '15 | Rev. 02



Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
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HERITAGE BUILDING SYSTEMS
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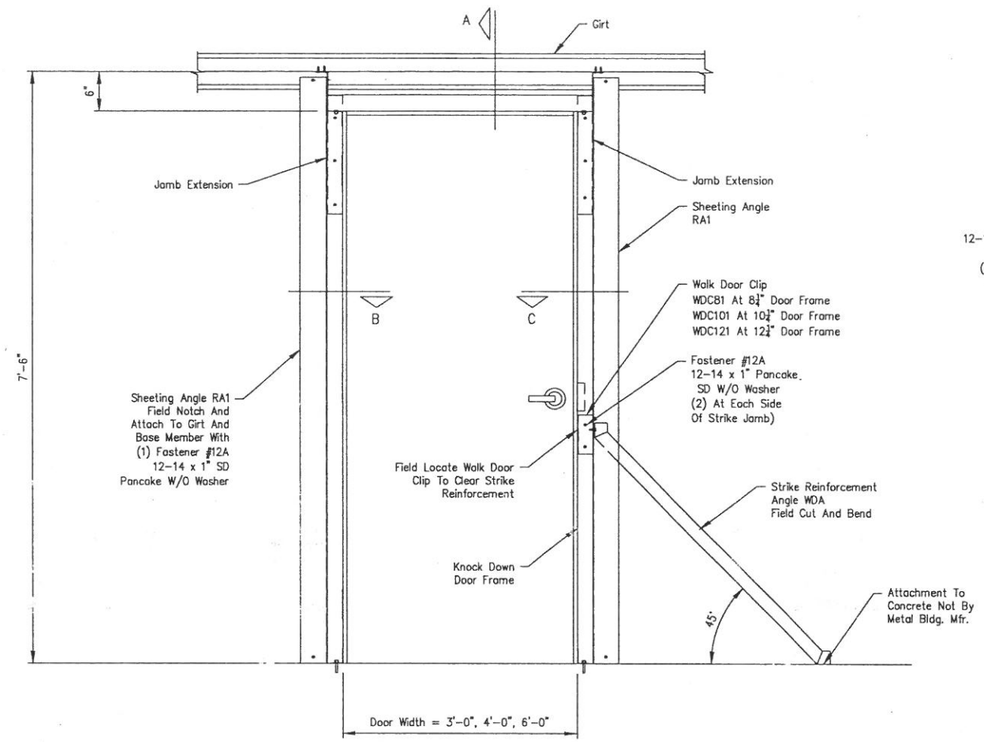
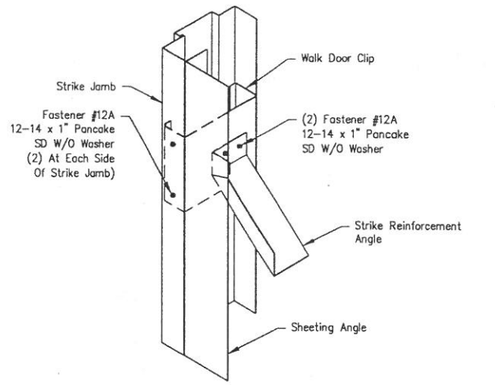
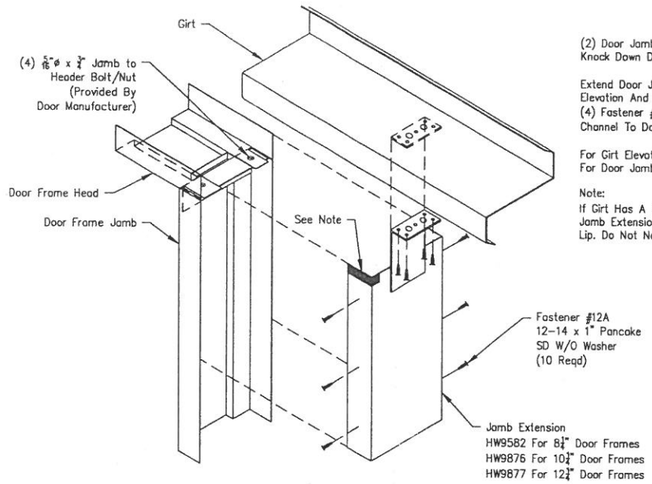
NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR
Apr 02 2019



Door Elevation



Walk Door Clip/Strike Reinforcement Angle Isometric



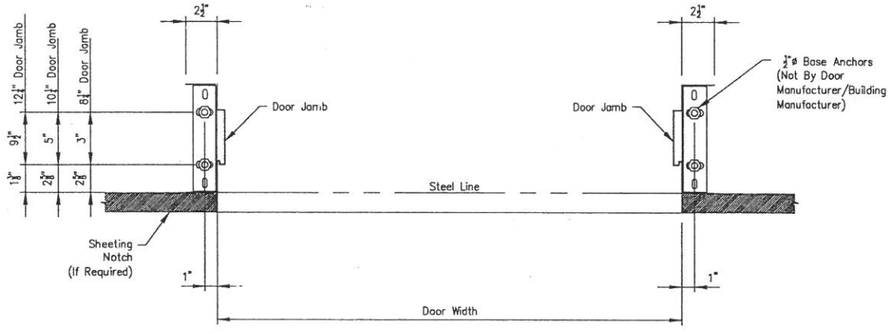
Door Jamb Extension Isometric

(2) Door Jamb Extensions Are Required For All Knock Down Doors.

Extend Door Jamb Extension To The 7'-6" Girt Elevation And Attach To The Web Of The Girt With (4) Fastener #12A, Attach Door Jamb Extension Channel To Door Jamb With (6) Fastener #12A.

For Girt Elevations Above 7'-6" Refer To AC05132 For Door Jamb Extension Requirements.

Note:
If Girt Has A 3½" Flange, Field Notch Jamb Extension Channel To Clear Girt Lip. Do Not Notch Girt Lip.

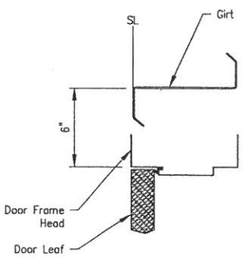


The Adequacy Of The ⅝"ø Base Anchor Is Not The Responsibility Of The Building Manufacturer.
The Adequacy Of These Base Anchors Should Be Determined By A Qualified Foundation Engineer.

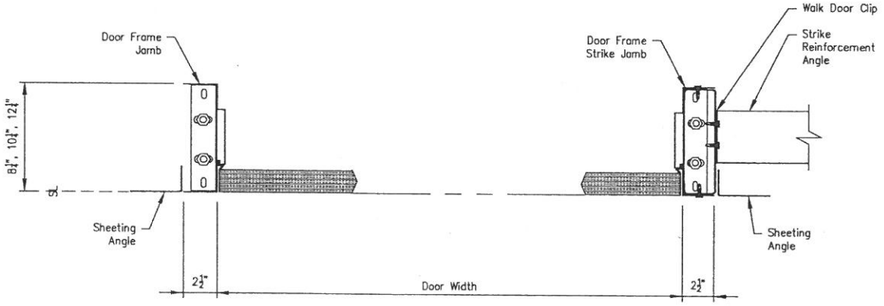
Verify Door Jamb Base Clip Dimensions With Patterns Shown Prior To Placement Of Door Anchors And Adjust Patterns If Needed.

Note: 12¾" Frames May Not Have Kerf Door Frame Feature Depending On Door Manufacturer.

Knock Down Door Anchor Placement



Section A



Section B

Section C

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

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Established 1979

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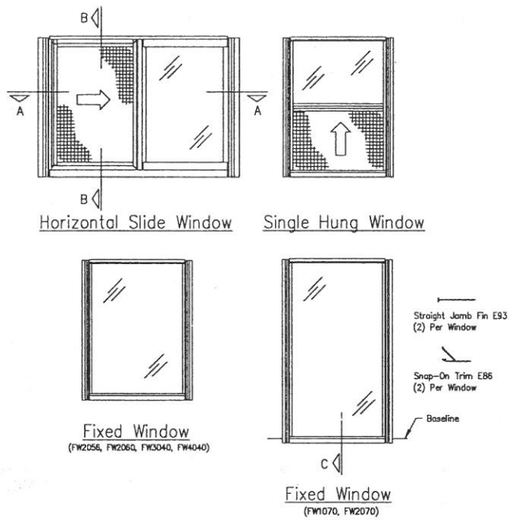
NORTH CAROLINA PROFESSIONAL SEAL 033305 ENGINEER AARON K. BATCHELLOR
Apr 02, 2019

Knock Down Door - Girt At 7'-6" Without Low Girt

Page	AC05200	
Date	Nov '18	Rev 00

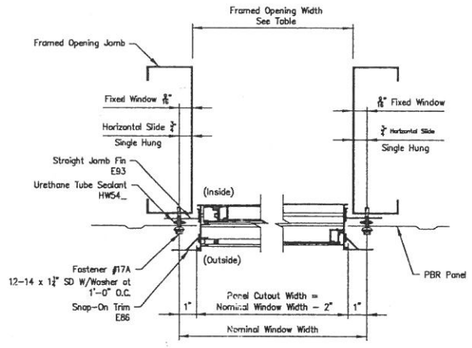


Horizontal Slide Window

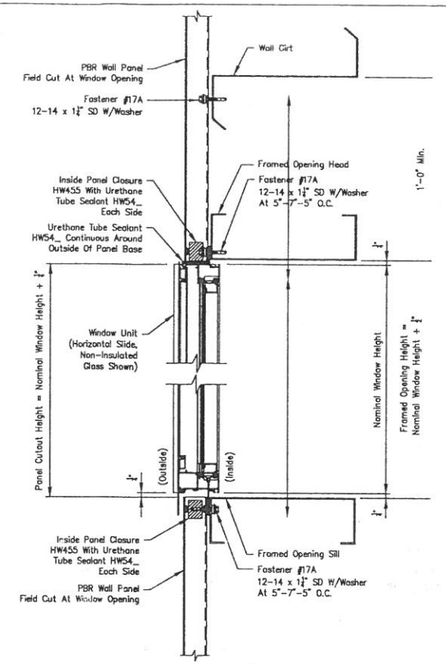
Single Hung Window

Fixed Window
(FW2056, FW2060, FW3040, FW4040)

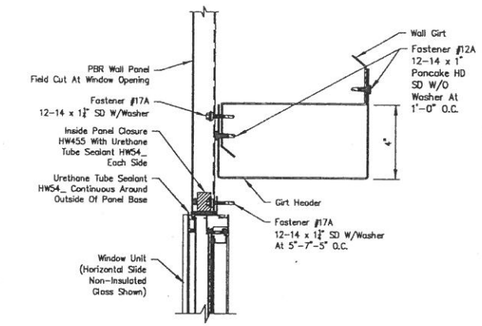
Fixed Window
(FW1070, FW2070)



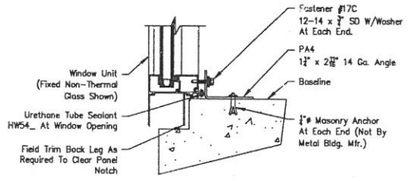
Section A – Jamb PBR Panel



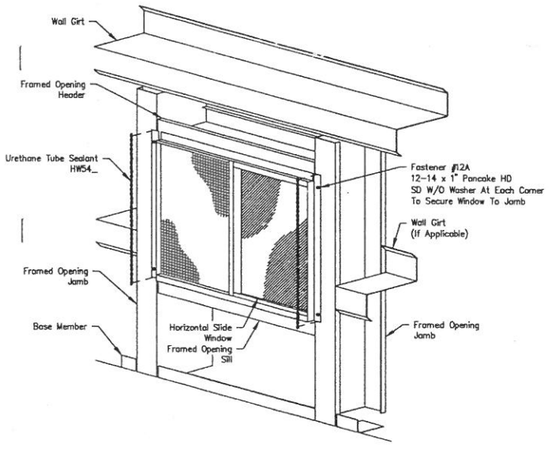
Section B – Head/Sill



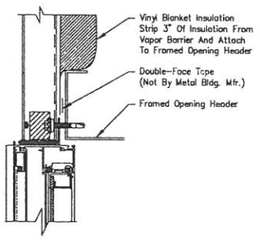
Section B – Head With Girt Header



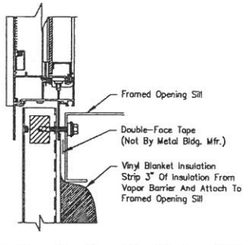
Section C – Sill At Baseline



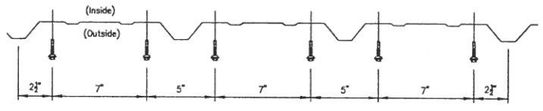
Framed Opening/Window Isometric
(Wall Panels Not Shown For Clarity)



Insulation Section At Window Head

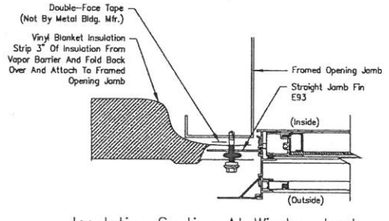


Insulation Section At Window Sill



Fastener Spacing At Head And Window Sill

Note: Fastener Location Shown Is For The Window Head.
Fasteners Are Installed From The Inside At The Window Sill.



Insulation Section At Window Jamb

Installation Notes:

See Reference Drawings For Framed Opening Installation.

Window Straight Jamb Fins Are Designed For Installation Between Major Panel Ribs Only. Typically Windows Are Located Between The 7'-6" Girt And The Baseline Of The Applicable Wall.

Windows Are Typically Packaged With Two Straight Jamb Fins E93 That Are Not Installed On The Window Unit. Prior To Window Installation Install The Jamb Fins Into The Extruded Grooves On Each Side Of The Window By Sliding The Fin In From The Bottom Of The Window. The Jamb Fin Should End Flush With The Top Of The Window Head Fin.

As The Wall Panels Are Installed, Locate And Mark Window Opening From The Outside Of The Building. The Window Should Be Located Between The Major Ribs In The Panel Flats At The Framed Opening Jambs, See Panel Cutout Table For Cutout Width And Height. Make Sure The Panel Cutout Height Elevation Is Correct And Panel Is Cut Square. Push The Window Up Until The Window Head Contacts The Upper Wall Panels. Make Sure Window Is Square And Level. Attach The Window Unit With Jamb Fins Installed To Framed Opening Jambs With Fastener #12A At Each Corner To Secure The Window Unit To the Framed Opening Jambs. Apply Urethane Tube Sealant HW54_ To Both Jamb Fins, See Framed Opening/Window Isometric.

Apply Urethane Tube Sealant HW54_ To Both Sides Of The Inside Panel Closures And Insert The Closures Between The Wall Panel And Insulation At The Window Head And Sill, See Section B.

Attach Window Head And Sill To Wall Panels/Framing Members With Fastener #17A At 5'-7"-5" O.C. See Fastener Spacing At Window Head And Sill. Note: Fasteners Are Installed From The Inside Of The Building At The Window Sill. Attach Wall Panels To Jamb Fins/Framed Opening Jambs With Fastener #17A At 1'-0" O.C., See Section A.

Apply Urethane Tube Sealant HW54_ Along Both Sides Between The Window Fins And The Wall Panel To Close Any Gaps. From The Outside Apply A Continuous Bead Around The Outside Of The Panel Profile At The Panel Base/Head, See Section B.

Install Snap-On Trim E86 At Each Jamb.

Panel Cutout			Framed Opening Size	
Horizontal Slide			Horizontal Slide	
Window ID	Cutout Width	Cutout Height	Opening Width	Opening Height
HS2018	1'-10"	1'-6½"	1'-10"	1'-6"
HS3020	2'-10"	2'-0½"	2'-10"	2'-0"
HS3030	2'-10"	3'-0½"	2'-10"	3'-0"
HS3040	2'-10"	4'-0½"	2'-10"	4'-0"
HS4030	3'-10"	3'-0½"	3'-10"	3'-0"
HS4040	3'-10"	4'-0½"	3'-10"	4'-0"
HS5030	4'-10"	3'-0½"	4'-10"	3'-0"
HS6020	5'-10"	2'-0½"	5'-10"	2'-0"
HS6030	5'-10"	3'-0½"	5'-10"	3'-0"
HS6040	5'-10"	4'-0½"	5'-10"	4'-0"
Single Hung			Single Hung	
Window ID	Cutout Width	Cutout Height	Opening Width	Opening Height
H3030	2'-10"	3'-0½"	2'-10"	3'-0"
H3040	2'-10"	4'-0½"	2'-10"	4'-0"
H3050	2'-10"	5'-0½"	2'-10"	5'-0"

Panel Cutout			Framed Opening Size	
Fixed			Fixed	
Window ID	Cutout Width	Cutout Height	Opening Width	Opening Height
FW1070	0'-10"	7'-0½" (*)	0'-10"	7'-0" (*)
FW2056	1'-10"	5'-6½"	1'-10"	5'-6"
FW2060	1'-10"	6'-0½"	1'-10"	6'-0"
FW2070	1'-10"	7'-0½" (*)	1'-10"	7'-0" (*)
FW3040	2'-10"	4'-0½"	2'-10"	4'-0"
FW4040	3'-10"	4'-0½"	3'-10"	4'-0"

(*) Dimension Is From Baseline

Details Shown Are For Horizontal Slide Windows. Single Hung And Fixed Window Installation Details Are Similar.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	3/28/19	FOR ERECTOR INSTALLATION	MRS	KD	CM

HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JOSHUA BRITTON
CUSTOMER: BRITTON PORTABLE WELDING
OWNER: JOSHUA BRITTON
LOCATION: LILLINGTON, NC 27546

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	3/28/19	N.T.S.	1	A	17-B-10785	DET15	0

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 033305 AARON K. BATCHELLOR Apr 02, 2019

Non Thermal Window (C225) Installation Details
Horizontal Slide / Single Hung / Fixed Glass
PBR Panel With Straight Jamb Stiffeners / Framed Opening

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Date Aug '17 Rev 00