

EXPENSE REPORT

GENERAL INFORMATION

Purpose Budget overview preparation

11/18/2024

For Office Use Only

EMPLOYEE INFORMATION

Name Michael Gross Station 2
Department Fire 30'x30' 2 bay fire station

Date	Account	Description	labor	Materials	equipment rent	Column5	Total
1/20/2025		Concrete		\$6,000.00	\$1,200.00		\$7,200.00
1/15/20205		Rebar		\$2,500.00			\$2,500.00
1/1/2025		Site prep		\$7,000.00			\$7,000.00
2/1/2025		Building		\$13,919.00	\$2,500.00		\$16,419.00
		Insulation/shipping		\$3,700.00			\$3,700.00
11/25/2024		Engineering		\$6,500.00			\$6,500.00
			10000				\$10,000.00
		propane		\$4,000.00			\$4,000.00
Total			\$10,000.00	\$43,619.00	\$3,700.00	\$0.00	\$57,319.00

APPROVED

NOTES

Subtotal	\$57,319.00
Advances	\$0.00
Total	\$57,319.00

Preliminary Estimate -
Most labor will be provided by volunteers

SECTION 5: FIRE/EMS IFA

This section will address the Fire IFA to help the City plan for the necessary capital improvements for future growth. This will address the fire infrastructure and apparatus, both existing and future, needed to serve the City through the next ten years, as well as address the appropriate fire impact fees the City may charge to new growth to maintain the existing LOS.

DEMAND

The IFA is designed to accurately assess the true impact of a particular user upon the City's infrastructure and prevent existing users from subsidizing new growth. Impact fees should be used to fund the costs of growth-related capital infrastructure based upon the historic funding of the existing infrastructure and the intent of the City to equitably allocate the costs of growth-related infrastructure in accordance with the true impact that a user will place on the system.

This section focuses on the specific demand units related to fire services, which will be calls for service. The demand analysis focuses on two main elements: 1) the existing demand on public facilities; and 2) the future demand as a result of new development that will impact public facilities.

To do this, two data sets are utilized: existing land-use data and calls for service. **TABLE 5.1** shows the existing amount of single-family equivalent (SFEs) residential units. Call data for the City did not have addresses tied to them, therefore each category was converted to single family equivalents as shown in **TABLE 5.2**. LYRB evaluated call data from 2017-2020, as this was the most recent call data available at the time this study was initiated. Since 2019 is the last full year of data it will be used as the basis for calculating LOS.

TABLE 5.1: FIRE CALLS PER SFE

		EXISTING SFEs	HISTORIC CALLS	EXISTING LOS (CALLS PER SFE)
Single Family Equivalent (SFE)	per unit	403	46	0.11427

TABLE 5.2: RESIDENTIAL CONVERSION

	DEVELOPED UNITS OR PER 1,000 SF	EXISTING TRIPS	SINGLE FAMILY PM PEAK TRIP RATE	SINGLE FAMILY EQUIVALENT UNITS
Residential (per Unit)	367	363	0.99	367
Commercial (per 1,000 SF)	21	35	1.68	36
Total				403

Source: ITE Trip Generation 10th Edition: 4-6 PM Peak Hour Vehicle Trip Generation Rates for the Adjacent Street Traffic (weekday 4-6PM); This Table represents only the most common uses and is NOT all-inclusive.

TABLE 5.3: PROJECTED CALLS FOR SERVICE

YEAR	POPULATION	ESTIMATED CALLS
2019	873	46
2020	925	49
2021	981	52
2022	1,040	55
2023	1,102	58
2024	1,168	62
2025	1,238	65
2026	1,300	69
2027	1,365	72
2028	1,434	76
2029	1,505	79
2030	1,581	83
2035	1,923	101
2040	2,229	118

A total of 46 calls for service were attributed to residential and non-residential development (not including calls placed from public land-uses or calls that cannot be traced to identifiable land-uses). The level of service does not include calls outside City boundaries. This serves as the basis for the demand calculation in this analysis.

It is anticipated that new growth in the Service Area will increase call volumes as well as response times, which will in turn impact the City's existing facilities. Fire services will need to be expanded in order to maintain the existing LOS as development continues throughout the City. The IFFP, in conjunction with the impact fee analysis, are designed to accurately assess the true impact of a particular user upon the City's infrastructure. Projections of call data on a per capita basis into the future suggest the City will receive an increase of 33 private fire calls by the year 2029. These additional calls will require additional staffing in the department, along with additional facilities to handle the increase in staff. Response times to calls are also critical. As such, the City has put great effort into future planning

to ensure that as growth continues, response times are not compromised, and the Fire Department is still able to provide the same service to future development as additional demands are placed on the system.

EXISTING FACILITIES INVENTORY

Based upon the City's fixed asset schedule, the existing fire facilities are valued at approximately \$182,547 based on original cost, as shown in **TABLE 5.4**.

TABLE 5.4: DESCRIPTION AND VALUE OF EXISTING FIRE FACILITIES

FACILITIES	DATE IN SERVICE	TOTAL Sq. Ft.	AGE	ORIGINAL COST
2005 Building, Fire Station	2005	4,500	15	81,000
2005 Land, Fire Station	2005	-	15	87,000
2007 Concrete Work - FD Driveway	2007	-	13	14,547
Total Facilities		4,500		\$182,547

LEVEL OF SERVICE

The LOS for purposes of this analysis is the current building square feet per call. Impact fees cannot be used to finance an increase in the LOS to current or future users of capital improvements. Therefore, it is important to identify the LOS within the Service Area to ensure that the new capacities of projects financed through impact fees do not exceed the established standard. The City currently has a LOS of 12.60 fire FTE per 1,000 residents.

TABLE 5.2 above illustrates the existing calls for service by land use type, while **TABLE 5.5** shows the existing square footage LOS. The current square footage LOS is calculated as follows: Existing Facility SF (4,500) / 2019 Calls (46) = 98 SF / call. This LOS is used to calculate the needed additional SF to maintain the current level of service: SF / call (98) * IFFP Calls (33) = SF needed to maintain LOS (3,260).

TABLE 5.5: FIRE SF LOS

	FIRE
Total Current SF	4,500
Total Calls (2019)	46
SF/Call	98
IFFP Calls	33
SF Needed to Maintain LOS	3,260
% of Total SF	42%

As traffic congestion increases and new developed areas require fire protection services, the Fire Department will need to construct new facilities to ensure the existing response times and service levels remain the same. While the LOS calculated in this report (based on sq. ft. per call) is intended to ensure that facilities similar to existing facilities are built for future development, the location and timing of the new facilities should be based on response times.

This section of the analysis summarizes the existing public facilities related to fire services. The Impact Fees Act allows the City to recover the costs of both buildings and fire suppression vehicles with an original cost of over \$500,000. A share of the cost of the fire apparatus, as determined by a proportionate share analysis, can be recovered by non-residential development.

The City covers approximately 74 square miles and serves 873 residents. The Department includes one station, located geographically in the City near Apple Valley Park. In addition, the Department serves as backup on large incidents within the county. The Department also performs inspections for compliance with fire codes and provides advanced EMT services for the City.

EXCESS CAPACITY

This analysis uses the Plan Based Methodology (described below) for calculating the impact fees, and assumes the existing facility is at capacity for the purposes of impact fee calculations. **TABLE 5.5** illustrates that new facilities are needed to maintain the adopted LOS. Future facility costs will be allocated to new development based on the growth-related calls for service anticipated within the IFFP planning horizon.

MANNER OF FINANCING EXISTING INFRASTRUCTURE

The existing public safety infrastructure and apparatus has been funded through a combination of different revenue sources, including general fund revenues, impact fees, and bond issues. Therefore, the City's existing LOS standards have been funded by the City's existing residents. The City does not anticipate receiving revenues from other entities (i.e. grants, federal or state funds, other contributions, etc.) to fund new facilities.

FUTURE CAPITAL FACILITIES ANALYSIS

The City has provided information for the 10-year planning horizon including capital project information, planning analysis and other information that has been compiled to prepare this IFA. The City has provided all future capital project data including project descriptions and estimated project costs. The following paragraph describes the methodology used for calculating impact fees in this analysis.

PLAN BASED (FEE BASED ON DEFINED CAPITAL IMPROVEMENT PLAN)

Impact fees can be calculated using a specific set of costs specified for future development. The improvements are identified in the IFFP or CIP as growth-related projects. The total project costs are divided by the total demand units the projects are designed to serve. Under this methodology, it is important to identify the existing LOS and determine any excess capacity in existing facilities that could serve new growth. As stated above, this analysis assumes existing facilities are at capacity for the purposes of impact fee calculations. Furthermore, the LOS discussion illustrates the City's need to construct additional facilities to maintain the adopted LOS.

Based upon the projected growth throughout the City, City staff has identified future facilities that must be constructed or acquired over the next ten years to serve future development within the planning horizon. The costs of these projects are detailed in **TABLE 5.6**. The project listed in the table below has a useful life of more than ten years. As stated previously, the LOS for this analysis is based on calls for service by land use type and the existing building square footage LOS. The proposed new substation facility cost to add additional capacity is estimated at \$398,200.

Additionally, the Impact Fees Act allows Cities to include in the calculation of the impact fee any fire trucks and apparatus with a cost of greater than \$500,000. The City plans to purchase a new engine in the next ten years. The fee includes the additional apparatus that will serve development occurring in the next ten years. **It should be noted that fire trucks and apparatus can only be funded through impact fees assessed to non-residential development.**

The Impact Fees Act allows for the inclusion of a time price differential to ensure that the future value of costs incurred at a later date are accurately calculated to include the costs of construction inflation. A 2.79% annual construction inflation adjustment is applied to projects completed after 2020 (the base year cost estimate). Also, a value of \$118.83 was used to estimate the base year cost.

TABLE 5.6: SUMMARY OF FUTURE CAPITAL FACILITIES

FACILITIES	CONSTRUCTION YEAR	TOTAL SQ. FT.	ESTIMATED COST	CONSTRUCTION YEAR COST	TOTAL IMPACT FEE ELIGIBLE COST	DEMAND (CALLS) SERVED
Substation on Highway 59	2021	3,260	\$387,391	\$398,200	\$398,200	33
New Apparatus		NA	\$600,000	\$650,000	\$650,000	61

2024 ESTIMATE 900 sq/ft 60,000

PROPOSED FIRE/EMS IMPACT FEE

The calculation of impact fees relies upon the information contained in the IFFP and this analysis. Impact fees are calculated based on many variables centered on proportionality and LOS. The proposed future facility and apparatus contemplated in this analysis will be needed to serve new development in the Service Area. Impact fees can be calculated using a specific set of costs specified for future development. The total project costs are divided by the total demand units the projects are designed to serve. Under this methodology, it is important to identify the existing LOS and determine any excess capacity in existing facilities that could serve new growth. **TABLE 5.7** illustrates the proportionate share analysis and cost per call calculations for fire facilities.

TABLE 5.7: FIRE PROPORTIONATE SHARE ANALYSIS

	COST TO FIRE	% TO IFFP	COST TO IFFP	SFE SERVED	COST PER SFE
Buy-in	\$182,547	42%	\$76,710	292	\$263
Future Facilities	\$398,200	42%	\$167,332	292	\$574
Professional Expense*	\$1,988	100%	\$1,988	292	\$7
Subtotal: Facilities	\$582,734		\$246,030		\$844
Future Apparatus	\$650,000	42%	\$273,144	26	\$10,599
Subtotal: Apparatus	\$650,000		\$273,144		\$10,599
Total	\$1,232,734		\$519,173		\$11,443

* The professional expense is allocated to demand in the next six years. The impact fee analysis should be updated within the 6-year horizon.

TABLE 5.8 illustrates the proposed impact fee by land-use type and by function. It is important to note that a political subdivision or private entity may not impose an impact fee on residential development to pay for a fire suppression vehicle.

TABLE 5.8: PROPOSED FIRE IMPACT FEE SCHEDULE

	COST PER SFE	SFE CONVERSION	TOTAL IMPACT FEE PER UNIT
Residential			
Single Family Residential	\$844	1.00	\$844
Multi-family Residential	\$844	0.68	\$571
Non-Residential			
Shopping Center (per 1K SF)	\$11,443	2.81	\$32,117
General Office (per 1K SF)	\$11,443	1.43	\$16,413
Light Industrial (per 1K SF)	\$11,443	0.84	\$9,594

NON-STANDARD FIRE IMPACT FEES

The City reserves the right under the Impact Fees Act to assess an adjusted fee that more closely matches the true impact that the land use will have upon public facilities.⁸ This adjustment could result in a different impact fee if the City determines that a particular user may create a different impact than what is standard for its land use. To determine the impact fee for a non-standard use, the City should use the following formula:

FORMULA FOR NON-STANDARD FIRE IMPACT FEES:

Residential Fee: SFE Conversion x \$844 = Recommended Impact Fee

Non-Residential Fee: SFE Conversion x \$11,443 = Recommended Impact Fee

⁸ 11-36a-402(1)(c)



(Michael) Fire Department <firedepartment@applevalleyut.gov>

US Patriot Steel Pricing

1 message

Nick Heredia <nick@uspatriotsteel.com>

Thu, Nov 7, 2024 at 8:58 AM

To: firedepartment@applevalleyut.gov

Thank you for your inquiry with us at US Patriot Steel. It was great speaking with you. The cost for your steel building 30x30x12 is **\$33,206.00**.

- (2) 10x10 Framed Openings with J Trim
- (1) 3x7 Framed Opening with J Trim

The details of the building are as follows:

- Primary Framing - I Beam / Secondary Framing Girts and Purlins
- 26 GA PBR steel sheeting
- Laser cut, pre-drilled, pre-welded
- Paint color of choice - walls, trim, roof - delivered to job site
- Engineered drawings, anchor bolt plans, blueprints
- (18 months of free storage if needed)
- 60 year structural warranty

Easy Build video

<https://www.uspatriotsteel.com/easy-install-video/>

Color Options

<https://uspatriotsteel.com/building-colors/>

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Let me know if you have any questions

www.uspatriotsteel.com

Have a blessed day

Nick Heredia, Building Specialist

US Patriot Steel

1001 W. Cypress Creek Road, Suite 401

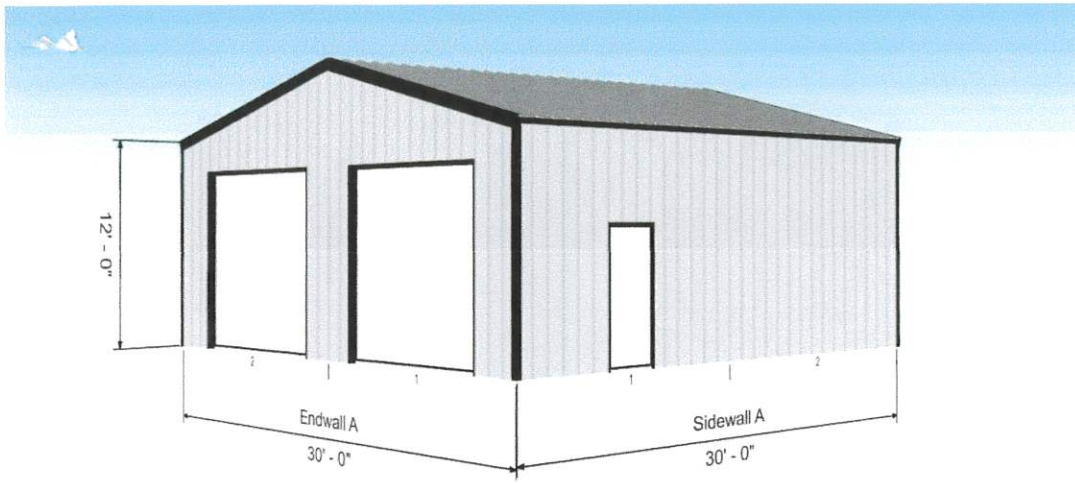
Ft. Lauderdale, FL 33309

888.692.3999 Office

954.372.3211 Direct

No Insulation

No Shipping





Contact: **Roni Bell**
Phone: **(970) 707-8191**
Email: **roni.b@gwbbuildings.com**
Prepared: 11/11/2024

SPEC SHEET: MichaelGross20241108A

BUYER DETAILS	JOBSITE DETAILS	WARRANTIES
Michael Gross N/A (435) 319-3708 firedepartment@applevalleyut.gov ADDRESS DETAILS 1777 W Meadowlark Dr Apple Valley, UT 84737	Michael Gross N/A (435) 319-3708 firedepartment@applevalleyut.gov ADDRESS DETAILS TBD Apple Valley, UT 84737 County:	Wall Panels 40 Years Roof Panels 40 Years Structural Lifetime SEE STANDALONE WARRANTY DOCUMENTS

BUILDING DETAILS	LOADS & CODE	
Width: 30' Length: 30' Eave Height: 10' Roof Pitch: 3:12	Ground Snow Load: 40 PSF Roof Snow Load: 40 PSF Wind Exposure: C Wind Load: 115MPH	Building Code: IBC-21 Collateral Load: 1 PSF Live Load: 20 PSF Other Load: N/A

FRAME DETAILS	ROOF DETAILS	WALL DETAILS	TRIM DETAILS
LEW: Post & Beam REW: Post & Beam Coating: Dark Grey Sec. Coat: Pre-Galvanized	Type: PBR - Purlin Bearing Rib Gauge: 26 Gauge Color: Galvalume	Type: PBR - Purlin Bearing Rib Gauge: 26 Gauge Color: SMP - Color Choice	Rake: Standard FL-15 Eave: Standard FL-214 Corners: SMP - Color Choice Jamb: SMP - Color Choice

BRACING	BAY SPACING	DESIGN DETAILS
LEW: Per Engineer REW: Per Engineer FSW: Per Engineer BSW: Per Engineer	LEW: Most Economical REW: Most Economical FSW/BSW: Most Economical	IBC Occupancy: Normal IBC Thermal Condition: Heated IBC Snow Exposure: Enclosed IBC Seismic Zone: D

NOTES

Tax will be added to the invoice \$469.56

ADDITIONAL LINE ITEMS

Item Description	Unit Price	QTY	Subtotal
Engineered Stamped Drawings: Building Engineered for Jobsite Location	Included	1	0
Project Manager/Design Services/Erection Drawings Included	Included	1	0
Kips, Loads, Reactions & Anchor Bolt Patterns Included	Included	1	0

Great Western (GWB) does not provide anchor bolts or embedment requirements. It is the customer's responsibility to verify and inform GWB building code and load requirements. GWB has applied what it assumes are the correct codes and loads and therefore does not guarantee their accuracy.

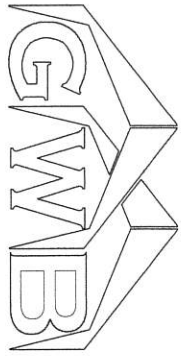


TOTAL Building & Line Items	\$13,919.56
Sales Tax:	May be Added
Shipping:	Consolidated - Included
Down Payment: Covers Engineering & Drawings	\$13,919.56
Manufacturing Payment: Due Prior to Fabrication	\$0.00
Balance Due Prior to Delivery:	\$0.00

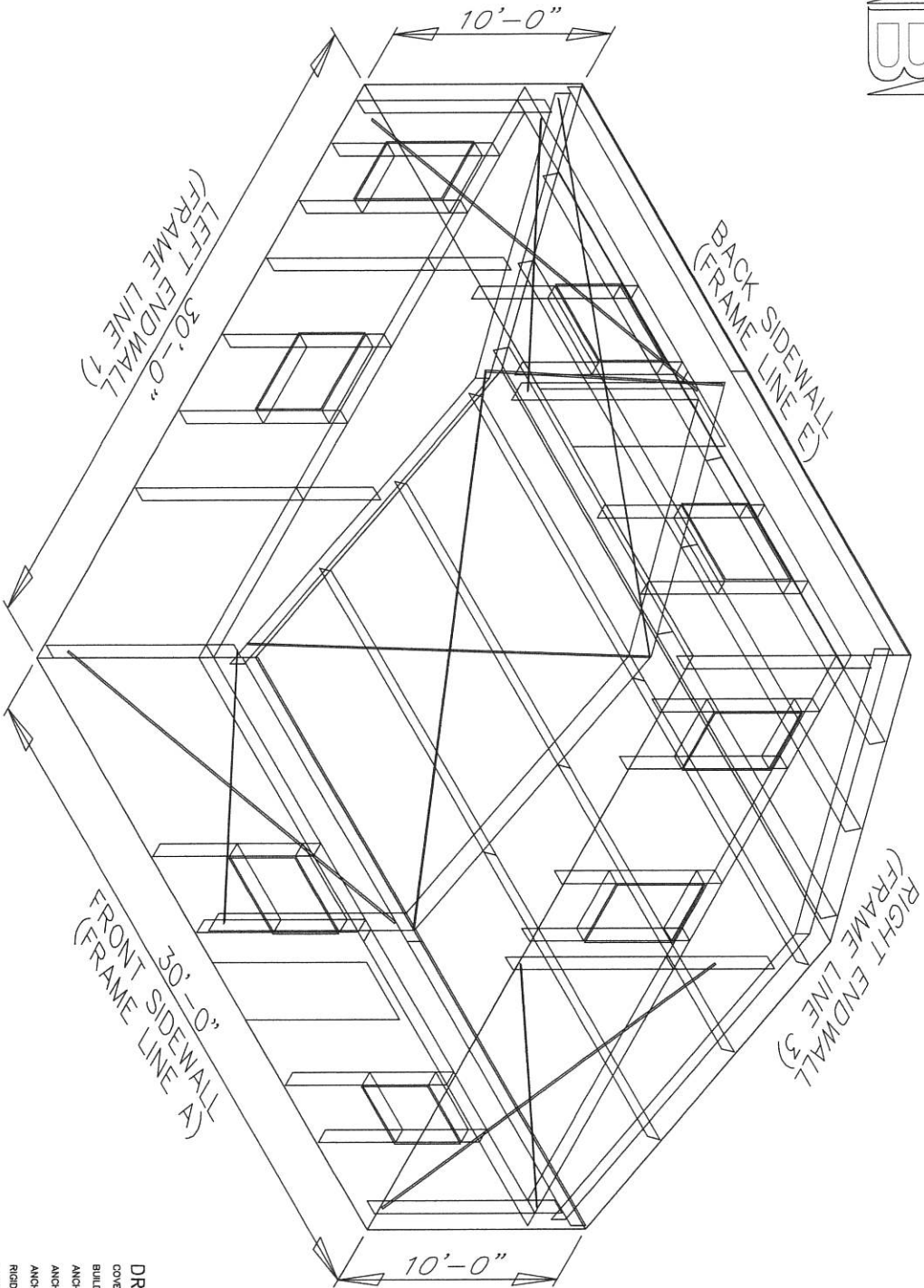
W/o Insulation or shipping

Insulation \$ 3085.25
Shipping \$ 500.00 +/-

17504.81 Total

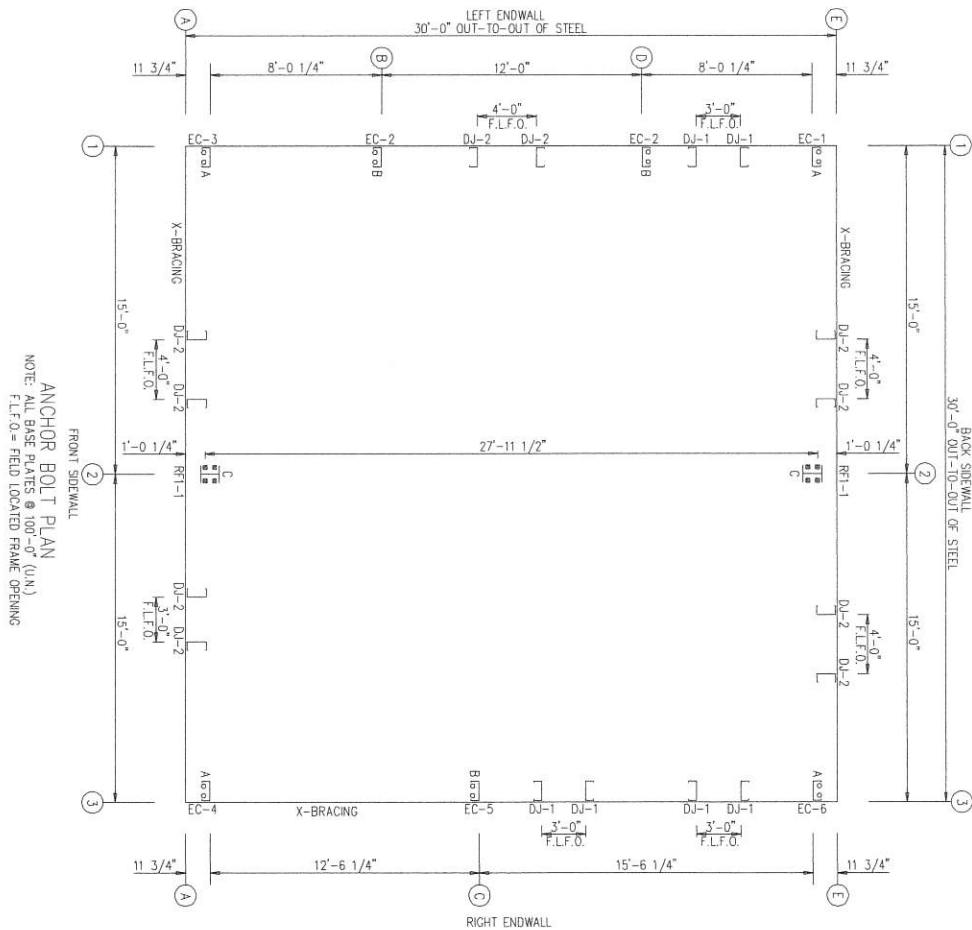


JOB NUMBER:
PROJECT NAME:
PROJECT LOCATION:
PROJECT LOCATION:
PROJECT COUNTY:



DRAWING INDEX

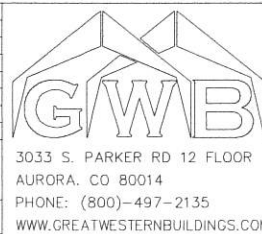
COVER SHEET:	1
BUILDING INFO COVERSHEET:	2
ANCHOR BOLT PLAN:	3
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RIGID FRAME ELEVATIONS:	6
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ROOF FRAMING & SHEETING PLAN:	11
DETAIL DRAWINGS:	12, 13, 14, 15



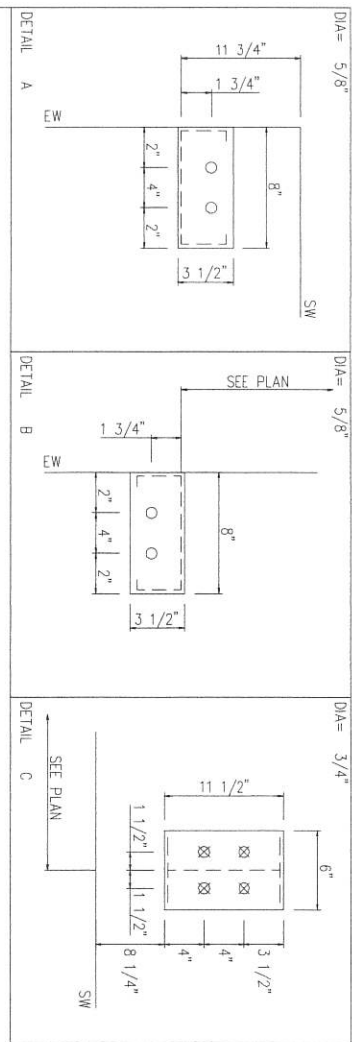
ANCHOR BOLT SUMMARY			
QTY	LOCATE	DIA	TYPE
8	ENDWALL	5/8"	A307
8	FRAME	3/4"	A307

THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY GREAT WESTERN BUILDINGS. THE DRAWINGS AND THE METAL BUILDING WHICH THEY REPRESENT ARE THE PRODUCT OF GREAT WESTERN BUILDINGS. THE REGISTERED PROFESSIONAL ENGINEER, WHOSE SEAL AND SIGNATURE APPEARS ON THESE DRAWINGS IS EMPLOYED BY GREAT WESTERN BUILDINGS AND DOES NOT SERVE AS OR REPRESENT THE OVERALL PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.

CUSTOMER NAME:	
PROJECT NAME:	
PROJECT LOCATION:	
PROJECT COUNTY:	
PROJECT END USE:	
CUSTOMER PHONE NUMBER:	
CUSTOMER EMAIL:	
SCALE:	N.T.S.
SHEET NUMBER:	3 OF 15
JOB NUMBER:	93903R1
SHEET TITLE:	ANCHOR BOLT PLAN



ISSUE	DATE	DWN.	CHK.	ENG.
APPROVAL	0/0/02	MEZ	MEZ	RTS
PERMIT	0/0/02	AA	CAF	RTS
ERECTION	0/0/02	PKD	PKD	RTS
REVISED PERMIT	0/0/04	MB	AA	RTS
ERECTION	0/0/04	PKD	PKD	RTS



NOTE:
MINOR FIELD WORK OF STRUCTURAL, SECONDARY AND PANEL/TRIM ITEMS MAY BE NECESSARY TO ENSURE PROPER FIT. SUCH WORK IS CONSIDERED A NORMAL PART OF METAL BUILDING ERECTION. G.W.B. WILL NOT HONOR BACKCHARGES FOR MINOR FIELD WORK.

ANCHOR BOLT DIMETERS HAVE BEEN DESIGNED BY THE METAL BUILDING ENGINEER BASED ON AISC METHOD WITH COMBINED STEEL AND TENSION.

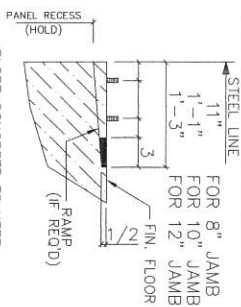
DEVELOPMENT, EMBEDMENT AND HOOK LENGTH OF ANCHOR BOLTS IN THE CONCRETE ARE DESIGN RESPONSIBILITY OF OTHERS. ALSO DESIGN OF STEEL ANGLES, TENSION PLATES, WELDING, AND ANY OTHER ITEMS REQUIRED IN THE CONCRETE SHALL BE DESIGNED AND PROVIDED BY OTHERS.

NOTE: ANCHOR BOLT PROTECTION IS FROM BOTTOM OF BASE PLATE.

Anchor Bolt Diameter	Concrete Embedment Depth
1/2"	12"
3/4"	14"
1"	16"
1 1/4"	18"
1 1/2"	20"
1 3/4"	22"
2"	24"

CONCRETE NOTCH AND ANCHOR BOLT PROTECTION

CONCRETE DETAIL AT OVERHEAD DOOR



CONCRETE DETAIL AT OVERHEAD DOOR

ISSUE	DATE	DWN.	CHK.	ENG.
APPROVAL	8/18/21	MEZ	MEZ	RTS
PERMIT	8/18/21	AA	CAF	RTS
ERECTION	8/18/21	PKD	PKD	RTS
REVISED PERMIT	8/18/21	MB	AA	RTS
ERECTION	8/18/21	PKD	PKD	RTS

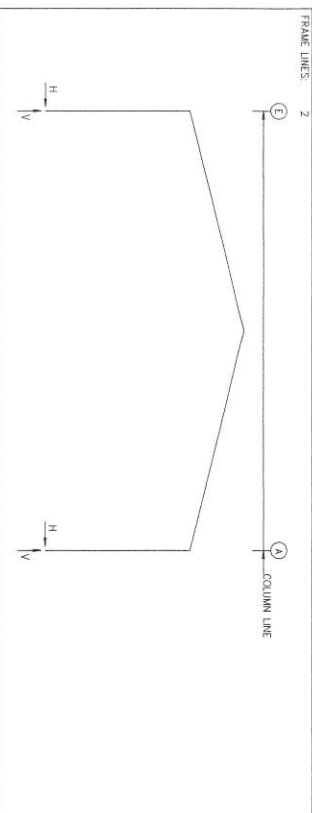
GWB

3033 S. PARKER RD 12 FLOOR
AURORA, CO 80014
PHONE: (800)-497-2135
WWW.GREATWESTERNBUILDINGS.COM

CUSTOMER NAME: _____
PROJECT NAME: _____
PROJECT LOCATION: _____
PROJECT COUNTY: _____
PROJECT END USE: _____
CUSTOMER PHONE NUMBER: _____
CUSTOMER EMAIL: _____
SCALE: N.T.S.

SHEET NUMBER: 4 OF 15
JOB NUMBER: 93903R1
SHEET TITLE: ANCHOR BOLT DETAILS

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RIGID FRAME:													
MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES													
From Line	Col Line	Load Id	Horiz H	Column Reaction (k)	Max V	Min V	Base Plate (in)	Width	Length	Thick	Grout (in)		
2	E	1	4.9	13.6	4	-1.9	4	0.750	6.000	11.50	0.375	0.0	
2	A	1	19	-1.5	2	-1.8	-2.6	4	0.750	6.000	11.50	0.375	0.0
		5	-4.9	13.6	3	-4.9	13.6	4	0.750	6.000	11.50	0.375	0.0

RIGID FRAME:
BASIC COLUMN REACTIONS (k)

From Line	Col Line	Load Id	Horiz H	Column Reaction (k)	Max V	Min V	Base Plate (in)	Width	Length	Thick	Grout (in)
2	E	1	4.9	13.6	4	-1.9	4	0.750	6.000	11.50	0.375
2	A	1	-4.9	13.6	4	-1.9	4	0.750	6.000	11.50	0.375

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	Length (ft)	Roof Slope (rise/run)	Dead Load (psf)	Live Load (psf)	Snow Load (psf)	Ultimate Wind Speed (mph)	Dead/Alive	Dead/Open	Importance Wind	Seismic Zone	Seismic Coeff (F _s /S _s)
30.00	30.00	10.12/10.00	2.00	2.00	30.00	115.00	115.00	115.00	1.00	1.00	0.86

ANCHOR BOLT SUMMARY

QTY	LOCATE	DA	TYPE
8	FRAME	3/4"	A307

ENDWALL COLUMN:										BASIC COLUMN REACTIONS (k)									
From	Col	Dead	Coloat	Live	Snow	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind	Wind
Line	Line	Line	Line	Line	Line	Line	Line	Line	Line	Line	Line	Line	Line	Line	Line	Line	Line	Line	Line
1	E	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
1	B	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
1	A	0.1	0.2	0.2	0.8	0.8	1.6	-0.5	-0.6	-0.2	-0.2	-1.8	-0.8	0.5	0.8				
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1																			
1																			
1																			

ENDWALL COLUMN:											
MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES											
From Line	Col Line	Load Id	Horiz H	Column Reaction (k)	Max V	Min V	Base Plate (in)	Width	Length	Thick	Grout (in)
1	E	1	4.9	13.6	4	-1.9	4	0.750	6.000	11.50	0.375
1	A	1	-4.9	13.6	4	-1.9	4	0.750	6.000	11.50	0.375
2	E	2	0.0	-0.8	0.0	-0.8	0.0	0.14	0.0	0.0	1.0
2	A	2	0.0	-0.8	0.0	-0.8	0.0	0.14	0.0	0.0	1.0
3	E	3	0.0	-0.8	0.0	-1.3	0.0	0.0	0.0	0.0	0.0
3	A	3	0.0	-0.8	0.0	-1.2	0.0	0.0	0.0	0.0	0.0
4	E	4	0.0	-0.3	0.0	-1.0	0.0	0.0	0.0	0.0	0.0
4	A	4	0.0	-0.3	0.0	-1.0	0.0	0.0	0.0	0.0	0.0
5	E	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	A	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	E	6	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	A	6	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	E	7	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	A	7	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0

From Line	Col Line	Load Id	Horiz H	Column Reaction (k)	Max V	Min V	Base Plate (in)	Width	Length	Thick	Grout (in)		
1	E	1	0.3	0.1	7	-1.5	2	0.625	3.500	8.000	0.250	0.0	
1	A	1	-0.3	0.1	7	-1.5	2	0.625	3.500	8.000	0.250	0.0	
1	D	9	0.7	-1.0	8	-0.6	0	0.625	3.500	8.000	0.250	0.0	
1	D	10	0.0	4.2	9	0.7	-1.0	0	0.625	3.500	8.000	0.250	0.0
1	B	11	0.7	-1.0	12	-0.6	-0.9	2	0.625	3.500	8.000	0.250	0.0
1	B	13	0.0	4.2	11	0.7	-1.0	0	0.625	3.500	8.000	0.250	0.0
1	A	14	0.3	0.1	7	-1.5	-0.8	2	0.625	3.500	8.000	0.250	0.0
3	A	1	0.3	0.1	7	-1.5	-0.8	2	0.625	3.500	8.000	0.250	0.0
3	A	15	0.6	-2.3	8	0.4	-0.2	2	0.625	3.500	8.000	0.250	0.0
3	C	11	0.0	-1.8	8	-0.9	-1.2	2	0.625	3.500	8.000	0.250	0.0
3	C	14	0.5	-0.7	11	0.4	-1.8	0	0.625	3.500	8.000	0.250	0.0
3	E	16	0.0	2.9	14	0.5	-0.7	2	0.625	3.500	8.000	0.250	0.0

ISSUE	DATE	DWN.	CHK.	ENG.
APPROVAL	9/17/22	MEZ	CAF	RTS
PERMIT	9/17/22	AA	CAF	RTS
ERECTION	9/17/22	PKD	PKD	RTS
REVISED PERMIT	9/17/22	MB	AA	RTS
ERECTION	9/17/22	PKD	PKD	RTS

GW B

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AURORA, CO 80014
PHONE: (800)-497-2135
WWW.GREATWESTERNBUILDINGS.COM

CUSTOMER NAME: _____

PROJECT NAME: _____

PROJECT LOCATION: _____

PROJECT COUNTY: _____

PROJECT END USE: _____

CUSTOMER PHONE NUMBER: _____

CUSTOMER EMAIL: _____

SCALE: N.T.S.

SHEET NUMBER: 5 OF 15

JOB NUMBER: 93903R1

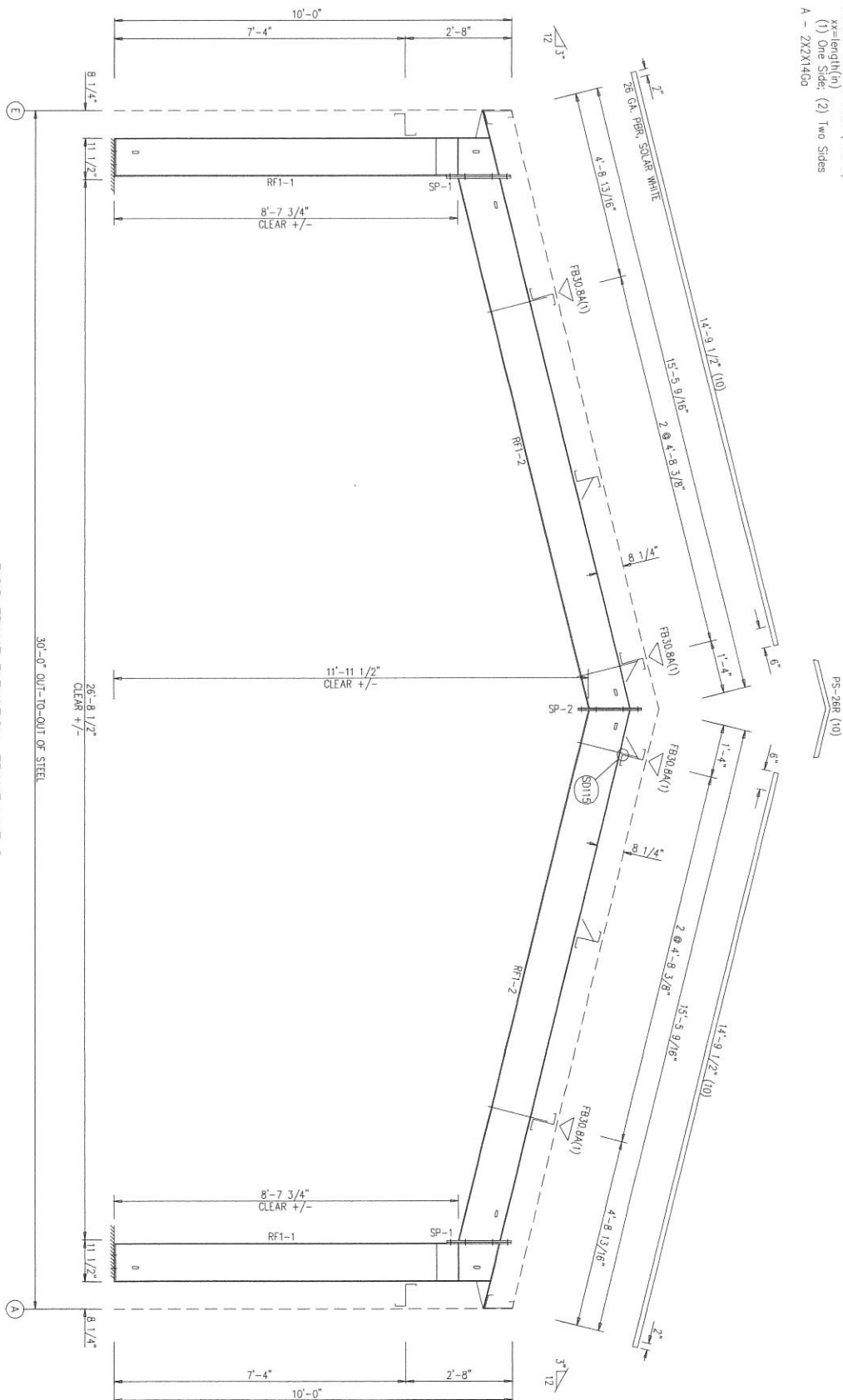
SHEET TITLE: ANCHOR BOLT REACTIONS

THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY GREAT WESTERN BUILDINGS. THE DRAWINGS AND THE METAL BUILDING WHICH THEY REPRESENT ARE THE PRODUCT OF GREAT WESTERN BUILDINGS. THE REGISTERED PROFESSIONAL ENGINEER, WHOSE SEAL AND SIGNATURE APPEARS ON THESE DRAWINGS IS EMPLOYED BY GREAT WESTERN BUILDINGS AND DOES NOT SERVE AS OR REPRESENT THE OVERALL PROJECT ENGINEER AS SUCH.

SPURCE BOLT TABLE					
Work	Qty	Top	Bot	Int	Type
SP-1	4	4	0	0	A325
SP-2	4	4	0	0	A325
					Dia
					Length
					2"
					1 3/4"

FLANGE BRACES: FBxx (1 or 2)
 xx=length(in)
 (1) One Side; (2) Two Sides
 A - 2X2X14G0

MEMBER TABLE					
Work	Web Depth	Web Plate	Outside Flange	Inside Flange	
RF1-1	110/110	0.135	8'-0 15/16"	5 x 1/4" x 9'-4 15/16"	5 x 1/4" x 8'-3 15/16"
RF1-2	120/120	0.135	1'-6 13/16"	5 x 1/4" x 1'-8 1/16"	5 x 1/4" x 13'-7 15/16"



RIGID FRAME ELEVATION: FRAME LINE 2

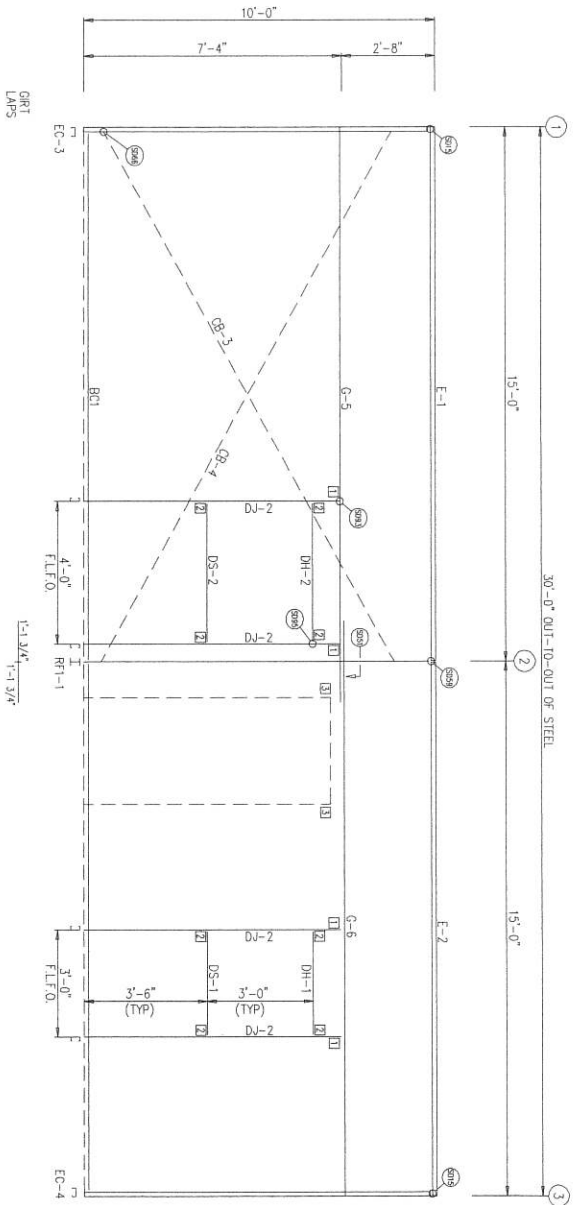
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 BUILDING WHICH THEY REPRESENT ARE THE
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 THE REGISTERED PROFESSIONAL ENGINEER WHOSE
 SEAL AND SIGNATURE APPEARS ON THESE
 DRAWINGS IS EMPLOYED BY GREAT WESTERN
 BUILDINGS AND DOES NOT SERVE AS OR
 REPRESENT THE OVERALL PROJECT ENGINEER OF
 RECORD AND SHALL NOT BE CONSTRUED AS
 SUCH.

CUSTOMER NAME: _____
 PROJECT NAME: _____
 PROJECT LOCATION: _____
 PROJECT COUNTY: _____
 PROJECT END USE: _____
 CUSTOMER PHONE NUMBER: _____
 CUSTOMER EMAIL: _____
 SCALE: N.T.S.
 SHEET NUMBER: 6 OF 15
 JOB NUMBER: 93903R1
 SHEET TITLE: RIGID FRAME ELEVATION

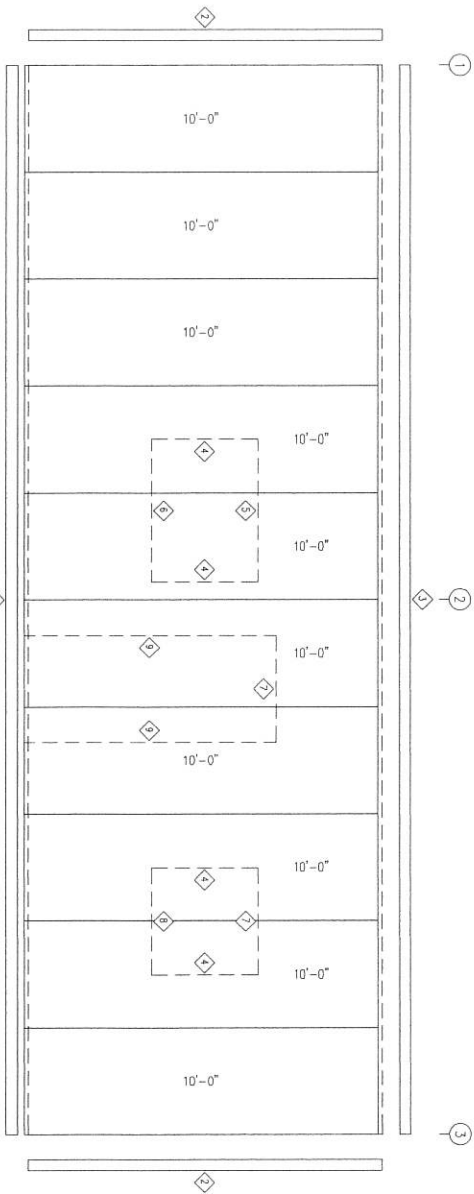


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ISSUE	DATE	DWN.	CHK.	ENG.
APPROVAL	9/10/22	MEZ	MEZ	RTS
PERMIT	9/10/22	AA	CAF	RTS
ERECTION	9/10/22	PKD	PKD	RTS
REVISED PERMIT	9/10/22	MB	AA	RTS
ERECTION	9/10/22	PKD	PKD	RTS



SIDEWALL FRAMING: FRAME LINE A
NOTE: F.L.F.O. = FIELD LOCATED FRAME OPENING



SIDEWALL SHEETING & TRIM: FRAME LINE A
PANELS: 26 GA. PBR - HAWAIIAN BLUE

TRIM TABLE			
FRAME LINE A			
OID	QUAN	PART	DETAIL
1	2	FL-60	TD-75
2	2	FL-10	TD-40
3	2	FL-24	TD-17
4	1	FL-44	TD-57
5	1	FL-43	TD-52
6	1	FL-50	TD-52
7	1	FL-52	TD-52
8	1	FL-50	TD-52
9	2	FL-48	TD-51

MEMBER TABLE			
FRAME LINE A			
QUAN	MARK	PART	LENGTH
4	DJ-2	8x25C16	7'-0"
1	DH-1	8x25C16	2'-11 1/2"
1	DS-1	8x25C16	3'-11 1/2"
1	DS-2	8x25C16	2'-11 1/2"
1	E-1	8x25C16	3'-11 1/2"
1	E-2	8x25C16	14'-11 1/2"
1	E-3	8x25C16	14'-11 1/2"
1	E-4	8x25C16	14'-11 1/2"
1	E-5	8x25C16	14'-11 1/2"
1	E-6	8x25C16	14'-11 1/2"
1	E-7	8x25C16	14'-11 1/2"
1	E-8	8x25C16	14'-11 1/2"
1	E-9	8x25C16	14'-11 1/2"
1	E-10	8x25C16	14'-11 1/2"
1	E-11	8x25C16	14'-11 1/2"
1	E-12	8x25C16	14'-11 1/2"
1	E-13	8x25C16	14'-11 1/2"
1	E-14	8x25C16	14'-11 1/2"
1	E-15	8x25C16	14'-11 1/2"
1	E-16	8x25C16	14'-11 1/2"
1	E-17	8x25C16	14'-11 1/2"
1	E-18	8x25C16	14'-11 1/2"
1	E-19	8x25C16	14'-11 1/2"
1	E-20	8x25C16	14'-11 1/2"
1	E-21	8x25C16	14'-11 1/2"
1	E-22	8x25C16	14'-11 1/2"
1	E-23	8x25C16	14'-11 1/2"
1	E-24	8x25C16	14'-11 1/2"
1	E-25	8x25C16	14'-11 1/2"
1	E-26	8x25C16	14'-11 1/2"
1	E-27	8x25C16	14'-11 1/2"
1	E-28	8x25C16	14'-11 1/2"
1	E-29	8x25C16	14'-11 1/2"
1	E-30	8x25C16	14'-11 1/2"
1	E-31	8x25C16	14'-11 1/2"
1	E-32	8x25C16	14'-11 1/2"
1	E-33	8x25C16	14'-11 1/2"
1	E-34	8x25C16	14'-11 1/2"
1	E-35	8x25C16	14'-11 1/2"
1	E-36	8x25C16	14'-11 1/2"
1	E-37	8x25C16	14'-11 1/2"
1	E-38	8x25C16	14'-11 1/2"
1	E-39	8x25C16	14'-11 1/2"
1	E-40	8x25C16	14'-11 1/2"
1	E-41	8x25C16	14'-11 1/2"
1	E-42	8x25C16	14'-11 1/2"
1	E-43	8x25C16	14'-11 1/2"
1	E-44	8x25C16	14'-11 1/2"
1	E-45	8x25C16	14'-11 1/2"
1	E-46	8x25C16	14'-11 1/2"
1	E-47	8x25C16	14'-11 1/2"
1	E-48	8x25C16	14'-11 1/2"
1	E-49	8x25C16	14'-11 1/2"
1	E-50	8x25C16	14'-11 1/2"
1	E-51	8x25C16	14'-11 1/2"
1	E-52	8x25C16	14'-11 1/2"
1	E-53	8x25C16	14'-11 1/2"
1	E-54	8x25C16	14'-11 1/2"
1	E-55	8x25C16	14'-11 1/2"
1	E-56	8x25C16	14'-11 1/2"
1	E-57	8x25C16	14'-11 1/2"
1	E-58	8x25C16	14'-11 1/2"
1	E-59	8x25C16	14'-11 1/2"
1	E-60	8x25C16	14'-11 1/2"
1	E-61	8x25C16	14'-11 1/2"
1	E-62	8x25C16	14'-11 1/2"
1	E-63	8x25C16	14'-11 1/2"
1	E-64	8x25C16	14'-11 1/2"
1	E-65	8x25C16	14'-11 1/2"
1	E-66	8x25C16	14'-11 1/2"
1	E-67	8x25C16	14'-11 1/2"
1	E-68	8x25C16	14'-11 1/2"
1	E-69	8x25C16	14'-11 1/2"
1	E-70	8x25C16	14'-11 1/2"
1	E-71	8x25C16	14'-11 1/2"
1	E-72	8x25C16	14'-11 1/2"
1	E-73	8x25C16	14'-11 1/2"
1	E-74	8x25C16	14'-11 1/2"
1	E-75	8x25C16	14'-11 1/2"
1	E-76	8x25C16	14'-11 1/2"
1	E-77	8x25C16	14'-11 1/2"
1	E-78	8x25C16	14'-11 1/2"
1	E-79	8x25C16	14'-11 1/2"
1	E-80	8x25C16	14'-11 1/2"
1	E-81	8x25C16	14'-11 1/2"
1	E-82	8x25C16	14'-11 1/2"
1	E-83	8x25C16	14'-11 1/2"
1	E-84	8x25C16	14'-11 1/2"
1	E-85	8x25C16	14'-11 1/2"
1	E-86	8x25C16	14'-11 1/2"
1	E-87	8x25C16	14'-11 1/2"
1	E-88	8x25C16	14'-11 1/2"
1	E-89	8x25C16	14'-11 1/2"
1	E-90	8x25C16	14'-11 1/2"
1	E-91	8x25C16	14'-11 1/2"
1	E-92	8x25C16	14'-11 1/2"
1	E-93	8x25C16	14'-11 1/2"
1	E-94	8x25C16	14'-11 1/2"
1	E-95	8x25C16	14'-11 1/2"
1	E-96	8x25C16	14'-11 1/2"
1	E-97	8x25C16	14'-11 1/2"
1	E-98	8x25C16	14'-11 1/2"
1	E-99	8x25C16	14'-11 1/2"
1	E-100	8x25C16	14'-11 1/2"

CONNECTION PLATES			
FRAME LINE A			
OID	QUAN	MARK	
1	4	CL-103	
2	8	CL-100	
3	2	CL-200	

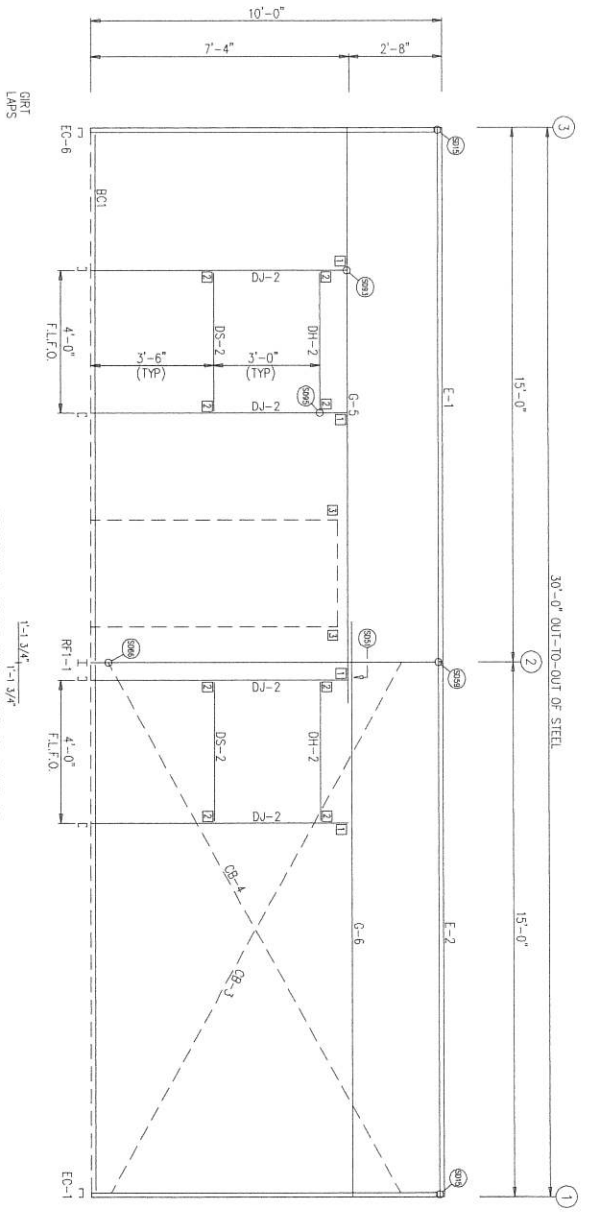
ISSUE	DATE	DWN.	CHK.	ENG.
APPROVAL	8/10/22	MEZ	MEZ	RTS
PERMIT	8/10/22	AA	CAF	RTS
ERECTION	8/10/22	PKD	PKD	RTS
REVISED PERMIT	8/10/24	MB	AA	RTS
ERECTION	8/10/24	PKD	PKD	RTS

GWB

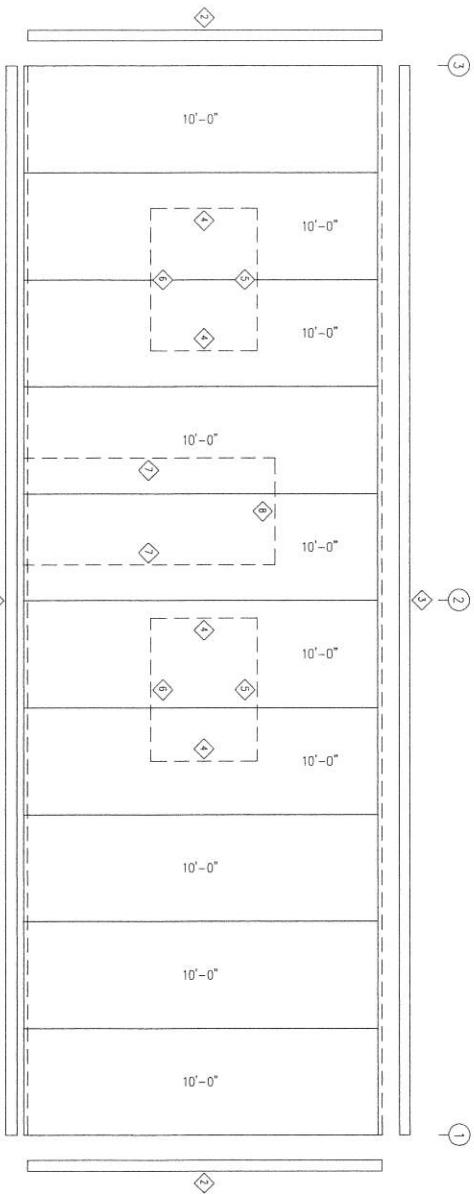
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AURORA, CO 80014
PHONE: (800)-497-2135
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CUSTOMER NAME: _____
PROJECT NAME: _____
PROJECT LOCATION: _____
PROJECT END USE: _____
CUSTOMER PHONE NUMBER: _____
CUSTOMER EMAIL: _____
SCALE: N.T.S.
SHEET NUMBER: 7 OF 15
JOB NUMBER: 93903R1
SHEET TITLE: SIDEWALL FRAMING & SHEETING

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SIDEWALL FRAMING: FRAME LINE E
NOTE: F.L.F.O. = FIELD LOCATED FRAME OPENING



SIDEWALL SHEETING & TRIM: FRAME LINE E
PANELS: 26 GA. PBR - HAWAIIAN BLUE

MEMBER TABLE			
QID	QUAN	PART	LENGTH
1	2	FL-60	10'-2"
2	2	FL-10	10'-0"
3	2	FL-20	10'-0"
4	2	FL-30	10'-0"
5	2	FL-40	10'-0"
6	2	FL-50	10'-0"
7	2	FL-60	10'-0"
8	2	FL-48	10'-0"
9	2	FL-52	10'-0"
10	2	FL-44	10'-0"
11	2	FL-46	10'-0"
12	2	FL-42	10'-0"
13	2	FL-48	10'-0"
14	2	FL-52	10'-0"
15	2	FL-44	10'-0"
16	2	FL-46	10'-0"
17	2	FL-42	10'-0"
18	2	FL-48	10'-0"
19	2	FL-52	10'-0"
20	2	FL-44	10'-0"
21	2	FL-46	10'-0"
22	2	FL-42	10'-0"
23	2	FL-48	10'-0"
24	2	FL-52	10'-0"
25	2	FL-44	10'-0"
26	2	FL-46	10'-0"
27	2	FL-42	10'-0"
28	2	FL-48	10'-0"
29	2	FL-52	10'-0"
30	2	FL-44	10'-0"
31	2	FL-46	10'-0"
32	2	FL-42	10'-0"
33	2	FL-48	10'-0"
34	2	FL-52	10'-0"
35	2	FL-44	10'-0"
36	2	FL-46	10'-0"
37	2	FL-42	10'-0"
38	2	FL-48	10'-0"
39	2	FL-52	10'-0"
40	2	FL-44	10'-0"
41	2	FL-46	10'-0"
42	2	FL-42	10'-0"
43	2	FL-48	10'-0"
44	2	FL-52	10'-0"
45	2	FL-44	10'-0"
46	2	FL-46	10'-0"
47	2	FL-42	10'-0"
48	2	FL-48	10'-0"
49	2	FL-52	10'-0"
50	2	FL-44	10'-0"
51	2	FL-46	10'-0"
52	2	FL-42	10'-0"
53	2	FL-48	10'-0"
54	2	FL-52	10'-0"
55	2	FL-44	10'-0"
56	2	FL-46	10'-0"
57	2	FL-42	10'-0"
58	2	FL-48	10'-0"
59	2	FL-52	10'-0"
60	2	FL-44	10'-0"
61	2	FL-46	10'-0"
62	2	FL-42	10'-0"
63	2	FL-48	10'-0"
64	2	FL-52	10'-0"
65	2	FL-44	10'-0"
66	2	FL-46	10'-0"
67	2	FL-42	10'-0"
68	2	FL-48	10'-0"
69	2	FL-52	10'-0"
70	2	FL-44	10'-0"
71	2	FL-46	10'-0"
72	2	FL-42	10'-0"
73	2	FL-48	10'-0"
74	2	FL-52	10'-0"
75	2	FL-44	10'-0"
76	2	FL-46	10'-0"
77	2	FL-42	10'-0"
78	2	FL-48	10'-0"
79	2	FL-52	10'-0"
80	2	FL-44	10'-0"
81	2	FL-46	10'-0"
82	2	FL-42	10'-0"
83	2	FL-48	10'-0"
84	2	FL-52	10'-0"
85	2	FL-44	10'-0"
86	2	FL-46	10'-0"
87	2	FL-42	10'-0"
88	2	FL-48	10'-0"
89	2	FL-52	10'-0"
90	2	FL-44	10'-0"
91	2	FL-46	10'-0"
92	2	FL-42	10'-0"
93	2	FL-48	10'-0"
94	2	FL-52	10'-0"
95	2	FL-44	10'-0"
96	2	FL-46	10'-0"
97	2	FL-42	10'-0"
98	2	FL-48	10'-0"
99	2	FL-52	10'-0"
100	2	FL-44	10'-0"

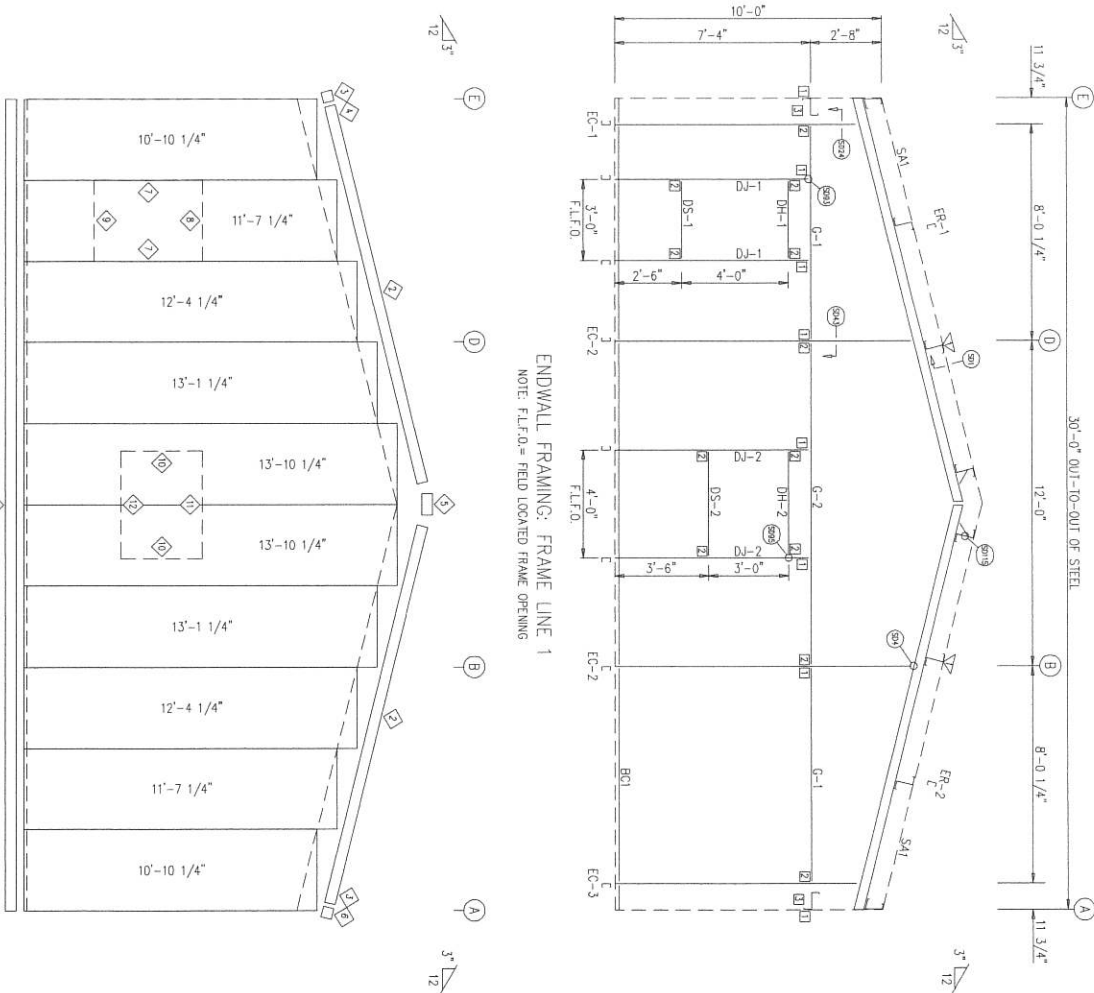
MEMBER TABLE			
QID	QUAN	PART	LENGTH
1	2	FL-60	10'-2"
2	2	FL-10	10'-0"
3	2	FL-20	10'-0"
4	2	FL-30	10'-0"
5	2	FL-40	10'-0"
6	2	FL-50	10'-0"
7	2	FL-60	10'-0"
8	2	FL-48	10'-0"
9	2	FL-52	10'-0"
10	2	FL-44	10'-0"
11	2	FL-46	10'-0"
12	2	FL-42	10'-0"
13	2	FL-48	10'-0"
14	2	FL-52	10'-0"
15	2	FL-44	10'-0"
16	2	FL-46	10'-0"
17	2	FL-42	10'-0"
18	2	FL-48	10'-0"
19	2	FL-52	10'-0"
20	2	FL-44	10'-0"
21	2	FL-46	10'-0"
22	2	FL-42	10'-0"
23	2	FL-48	10'-0"
24	2	FL-52	10'-0"
25	2	FL-44	10'-0"
26	2	FL-46	10'-0"
27	2	FL-42	10'-0"
28	2	FL-48	10'-0"
29	2	FL-52	10'-0"
30	2	FL-44	10'-0"
31	2	FL-46	10'-0"
32	2	FL-42	10'-0"
33	2	FL-48	10'-0"
34	2	FL-52	10'-0"
35	2	FL-44	10'-0"
36	2	FL-46	10'-0"
37	2	FL-42	10'-0"
38	2	FL-48	10'-0"
39	2	FL-52	10'-0"
40	2	FL-44	10'-0"
41	2	FL-46	10'-0"
42	2	FL-42	10'-0"
43	2	FL-48	10'-0"
44	2	FL-52	10'-0"
45	2	FL-44	10'-0"
46	2	FL-46	10'-0"
47	2	FL-42	10'-0"
48	2	FL-48	10'-0"
49	2	FL-52	10'-0"
50	2	FL-44	10'-0"
51	2	FL-46	10'-0"
52	2	FL-42	10'-0"
53	2	FL-48	10'-0"
54	2	FL-52	10'-0"
55	2	FL-44	10'-0"
56	2	FL-46	10'-0"
57	2	FL-42	10'-0"
58	2	FL-48	10'-0"
59	2	FL-52	10'-0"
60	2	FL-44	10'-0"
61	2	FL-46	10'-0"
62	2	FL-42	10'-0"
63	2	FL-48	10'-0"
64	2	FL-52	10'-0"
65	2	FL-44	10'-0"
66	2	FL-46	10'-0"
67	2	FL-42	10'-0"
68	2	FL-48	10'-0"
69	2	FL-52	10'-0"
70	2	FL-44	10'-0"
71	2	FL-46	10'-0"
72	2	FL-42	10'-0"
73	2	FL-48	10'-0"
74	2	FL-52	10'-0"
75	2	FL-44	10'-0"
76	2	FL-46	10'-0"
77	2	FL-42	10'-0"
78	2	FL-48	10'-0"
79	2	FL-52	10'-0"
80	2	FL-44	10'-0"
81	2	FL-46	10'-0"
82	2	FL-42	10'-0"
83	2	FL-48	10'-0"
84	2	FL-52	10'-0"
85	2	FL-44	10'-0"
86	2	FL-46	10'-0"
87	2	FL-42	10'-0"
88	2	FL-48	10'-0"
89	2	FL-52	10'-0"
90	2	FL-44	10'-0"
91	2	FL-46	10'-0"
92	2	FL-42	10'-0"
93	2	FL-48	10'-0"
94	2	FL-52	10'-0"
95	2	FL-44	10'-0"
96	2	FL-46	10'-0"
97	2	FL-42	10'-0"
98	2	FL-48	10'-0"
99	2	FL-52	10'-0"
100	2	FL-44	10'-0"

CONNECTION PLATES			
QID	QUAN	MARK	LENGTH
1	2	CL-103	10'-0"
2	2	CL-100	10'-0"
3	2	CL-200	10'-0"

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PROJECT LOCATION: _____
PROJECT COUNTY: _____
PROJECT END USE: _____
CUSTOMER PHONE NUMBER: _____
CUSTOMER EMAIL: _____
SCALE: N.T.S.
SHEET NUMBER: 8 OF 15
JOB NUMBER: 93903R1
SHEET TITLE: SIDEWALL FRAMING & SHEETING

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ENDWALL FRAMING: FRAME LINE 1
NOTE: F.L.F.D. = FIELD LOCATED FRAME OPENING

ENDWALL SHEETING & TRIM: FRAME LINE 1
PANELS: 26 GA. PBR - HAWAIIAN BLUE

TRIM TABLE			
QID	QUAN	PART	DETAIL
1	3	FL-60	TD-76
2	4	FL-15	TD-76
3	2	FL-60D	TD-85
4	1	FL-60L	TD-12
5	1	FL-17	TD-12
6	1	FL-60R	TD-12
7	2	FL-48	TD-51
8	1	FL-52	TD-52
9	1	FL-50	TD-51
10	2	FL-48	TD-51
11	1	FL-50	TD-52
12	1	FL-44	TD-52

BOLT TABLE			
LOCATION	QUAN	TYPE	DIAM
ER-1/ER-2	4	A325	5/8"
COLUMNS/RATER	2	A325	5/8"
			1 1/2"

MEMBER TABLE			
QID	QUAN	PART	LENGTH
1	1	EC-1	8'-9 7/16"
2	2	EC-2	10'-9 1/2"
3	1	EC-3	8'-9 7/16"
4	1	ER-1	15'-5 5/16"
5	1	ER-2	15'-5 5/16"
6	2	DJ-1	7'-0"
7	2	DJ-2	7'-0"
8	1	DH-1	2'-11 1/2"
9	1	DH-2	3'-11 1/2"
10	1	DS-1	2'-11 1/2"
11	1	DS-2	3'-11 1/2"
12	1	G-1	7'-7 15/16"
13	1	G-2	11'-11 1/2"

CONNECTION PLATES			
QID	QUAN	MARK	
1	8	CL-103	
2	12	CL-100	
3	2	CL-5	

FLANGE BRACE TABLE			
QID	QUAN	MARK	
1	2	FB29.3	

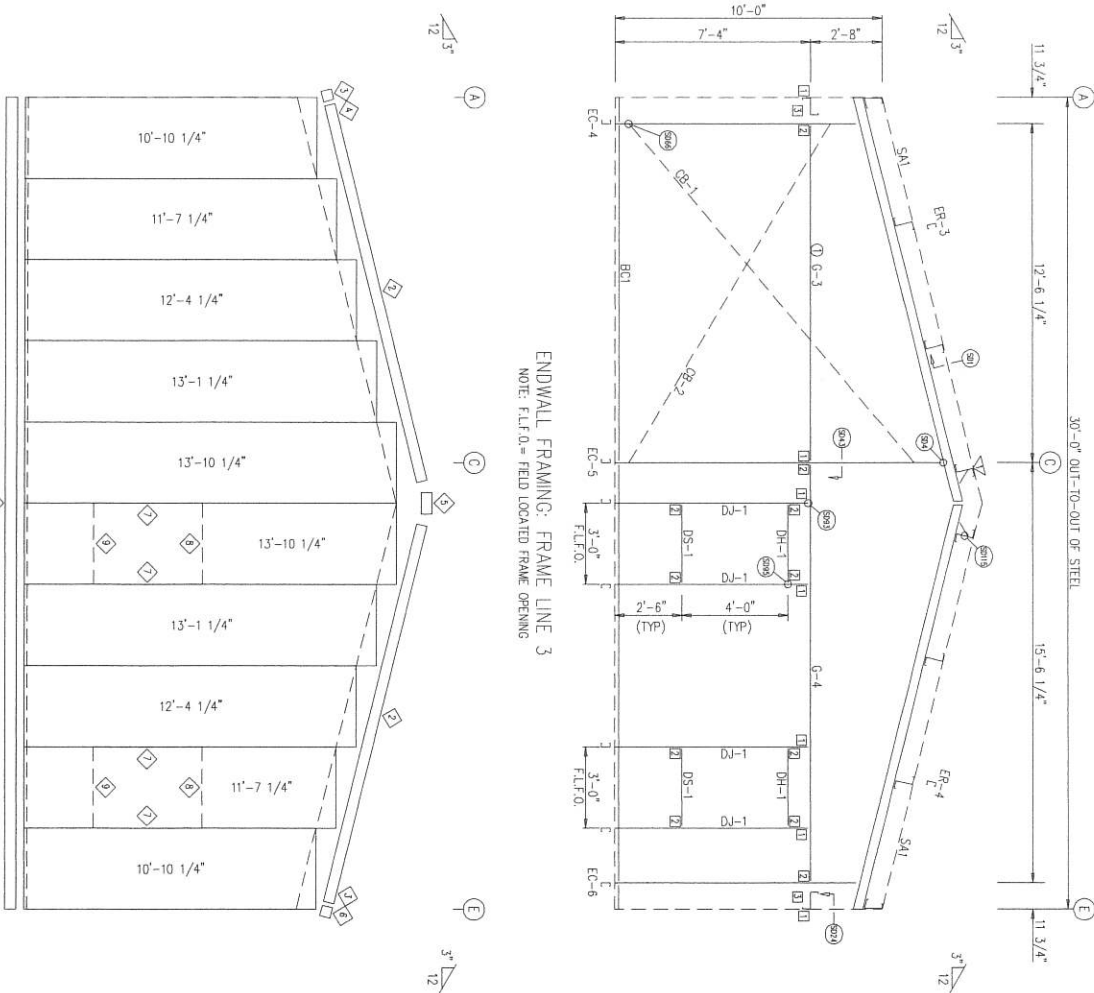
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APPROVAL	8/18/22	MEZ	MEZ	RTS
PERMIT	8/18/22	AA	CAF	RTS
ERECTION	8/18/22	PKD	PKD	RTS
REVISED PERMIT	8/18/24	MB	AA	RTS
ERECTION	8/18/24	PKD	PKD	RTS

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PROJECT NAME: _____
PROJECT LOCATION: _____
PROJECT END USE: _____
CUSTOMER PHONE NUMBER: _____
CUSTOMER EMAIL: _____
SCALE: N.T.S.
SHEET NUMBER: 9 OF 15
JOB NUMBER: 93903R1
SHEET TITLE: ENDWALL FRAMING & SHEETING

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ENDWALL SHEETING & TRIM: FRAME LINE 3
 PANELS: 26 GA. PBR - HAWAIIAN BLUE

TRIM TABLE			
QID	QUAN	PART	DETAIL
1	3	FL-60	10'-2"
2	4	FL-15	9'-4 1/2"
3	2	FL-60D	7'-14 1/16"
4	1	FL-60D	5'-3 3/8"
5	1	FL-60D	5'-3 3/8"
6	1	FL-60D	5'-3 3/8"
7	1	FL-60D	5'-3 3/8"
8	1	FL-60D	5'-3 3/8"
9	1	FL-60D	5'-3 3/8"

BOLT TABLE			
QID	QUAN	TYPE	DIAM
1	4	A325	5/8"
2	2	A325	5/8"

MEMBER TABLE			
QID	QUAN	PART	LENGTH
1	1	EC-4	8'-7 3/8"
2	1	EC-5	11'-8 15/16"
3	1	EC-6	8'-7 3/8"
4	1	ER-3	15'-5 5/16"
5	1	ER-4	10'-2 5/16"
6	1	ER-5	15'-5 5/16"
7	1	ER-6	7'-0"
8	1	ER-7	2'-11 1/2"
9	1	ER-8	2'-11 1/2"
10	1	ER-9	12'-1 15/16"
11	1	ER-10	15'-5 3/4"
12	1	ER-11	15'-1 1/2"

FIELD WORK TABLE			
QID	DETAIL	DIMENSION 1	DIMENSION 2
1	SD202	1'-2 7/16"	7'-11 9/16"

CONNECTION PLATES			
QID	QUAN	MARK	MARK
1	7	CL-103	
2	11	CL-100	
3	2	CL-5	

FLANGE BRACE TABLE			
QID	QUAN	MARK	MARK
1	1	FB30	

ISSUE	DATE	DWN.	CHK.	ENG.
APPROVAL	9/10/22	MEZ	MEZ	RTS
PERMIT	9/10/22	AA	CAF	RTS
ERECTION	9/10/22	PKD	PKD	RTS
REVISED PERMIT	9/10/22	MB	AA	RTS
ERECTION	9/10/22	PKD	PKD	RTS

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CUSTOMER EMAIL: _____

SCALE: N.T.S.

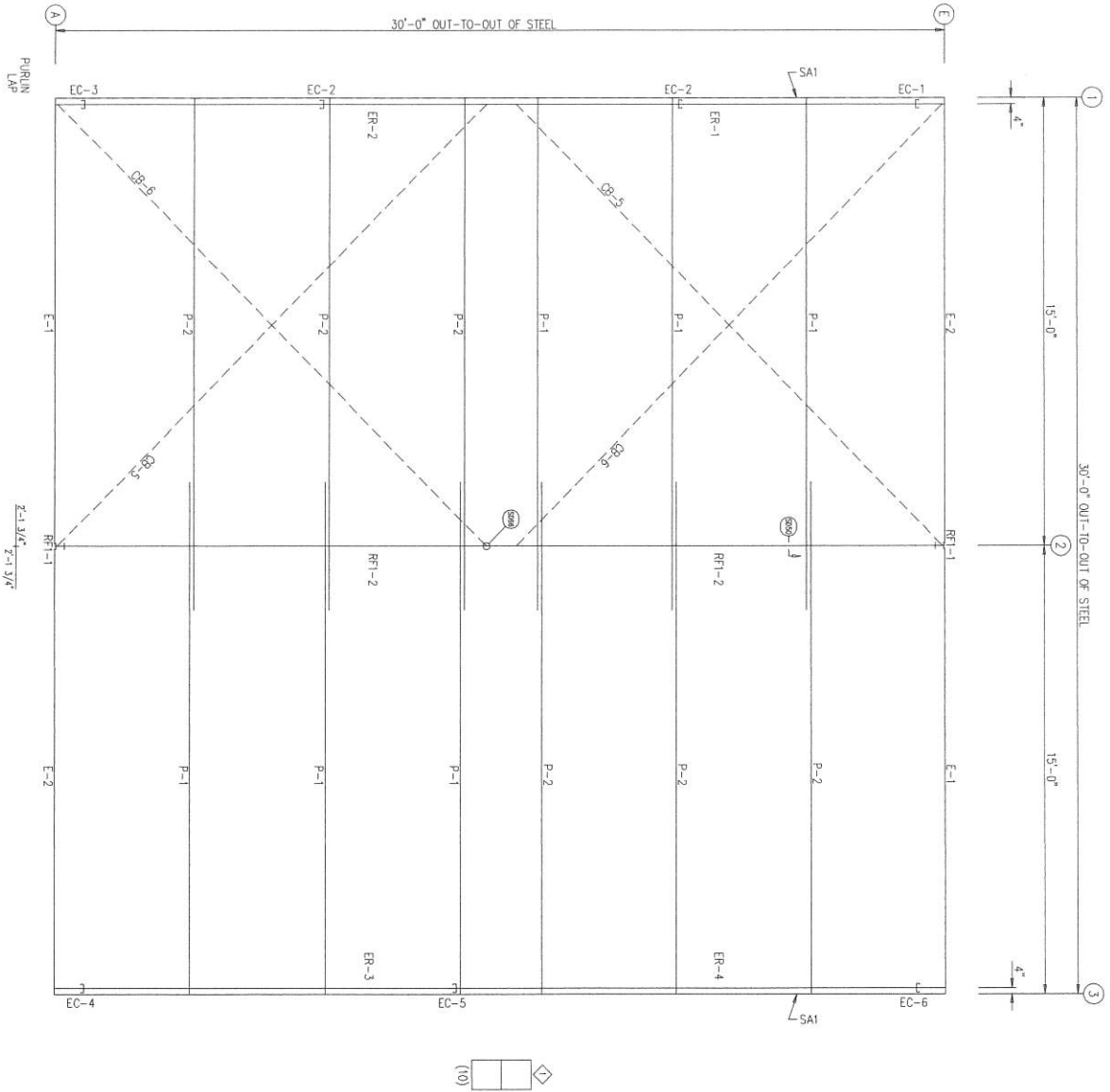
SHEET NUMBER: 10 OF 15

JOB NUMBER: 93903R1

SHEET TITLE: ENDWALL FRAMING & SHEETING

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ROOF FRAMING PLAN



ROOF SHEETING
PANELS: 26 GA. PBR SOLAR WHITE

TRIM TABLE			
NO.	QUAN.	PART	DETAIL
1	10	PS-2BR	TDR

MEMBER TABLE			
NO.	QUAN.	MARK	LENGTH
6	6	P-1	8X25/216
2	2	P-2	17'-1 1/2"
2	2	E-1	14'-11 1/2"
2	2	E-2	14'-11 1/2"
2	2	CB-5	19'-10"
2	2	CB-6	20'-3 1/4"

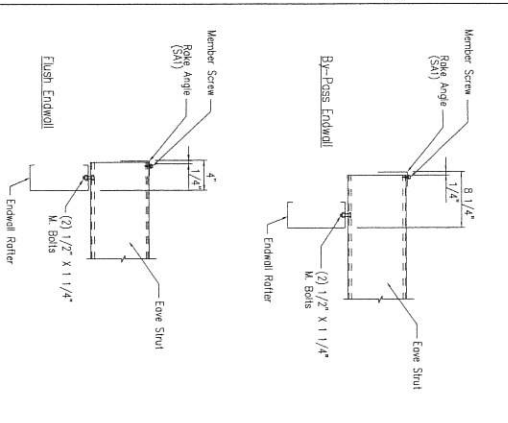
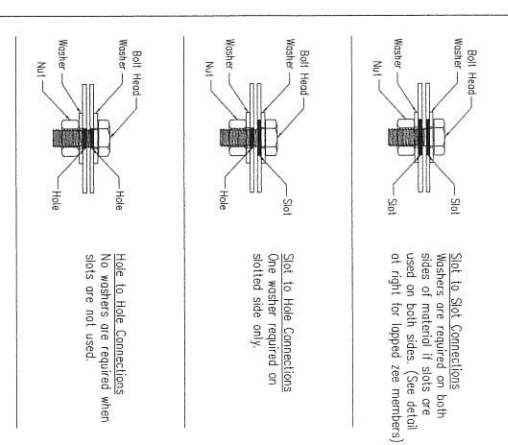
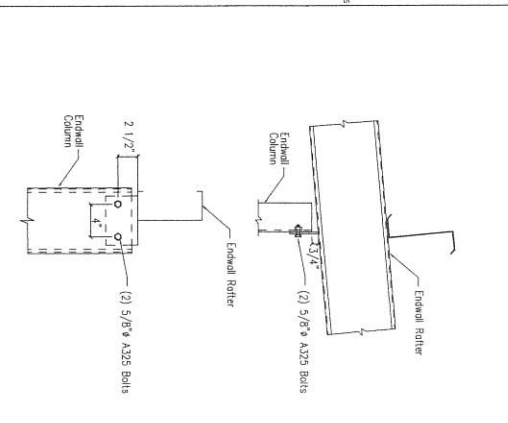
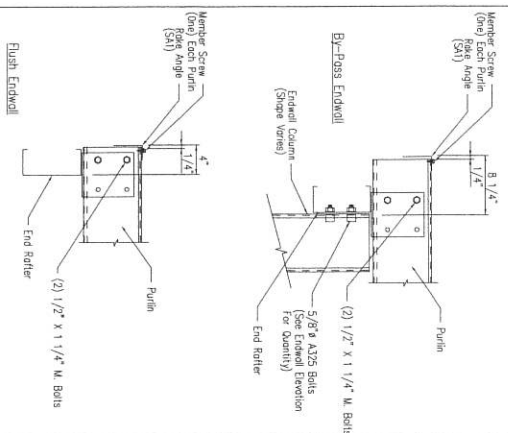
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APPROVAL	8/10/22	MEZ	MEZ	RTS
PERMIT	8/10/22	AA	CAF	RTS
ERECTION	8/10/22	PKD	PKD	RTS
REVISED PERMIT	8/10/22	MB	AA	RTS
ERECTION	8/10/22	PKD	PKD	RTS



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PROJECT END USE: _____
CUSTOMER PHONE NUMBER: _____
CUSTOMER EMAIL: _____
SCALE: N.T.S.
SHEET NUMBER: 11 OF 15
JOB NUMBER: 93903R1
SHEET TITLE: ROOF FRAMING & SHEETING PLAN

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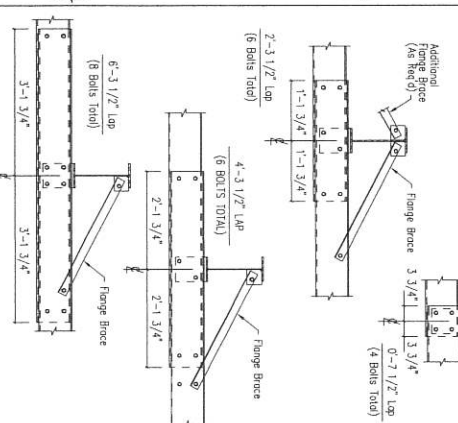
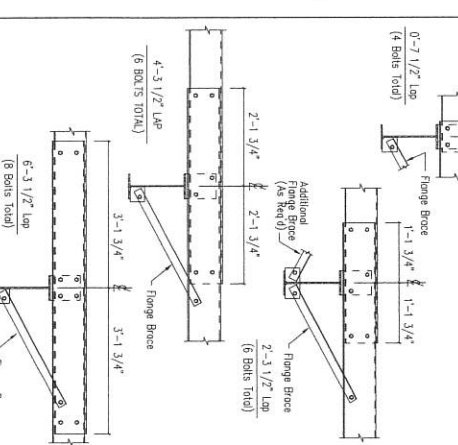
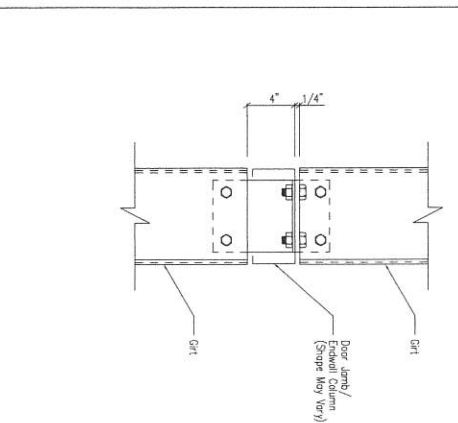
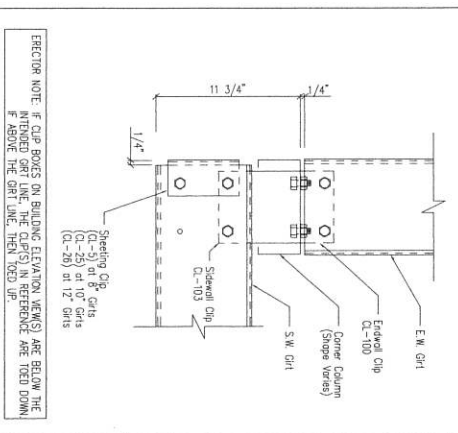


Section Thru Rake at Cold-Form Rafter
SD1

Cold Form Column to Cold Form Rafter
SD4

Typical Washer Requirements
SD11

Eave Strut to Cold Form Rafter Connection
SD15



Section of "C" Corner Column
SD24

Girt to "C" Door Jamb/Endwall Column Connection
SD43

Interior Bay Purlin Framing
SD50

Interior Bay Girt Framing
SD51

ERECTOR NOTE: IF CLIP BOXES ON BUILDING ELEVATION VIEWS ARE BELOW THE
INTENDED GIRT LINE, THE CLIPS IN REFERENCE ARE TOED DOWN
FROM ABOVE THE GIRT LINE, THEN TOED UP.

Note: All connection bolts are 1/2" x 1 1/4" machine bolts unless noted.

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APPROVAL	01/01/02	MEZ	MEZ	RTS
PERMIT	04/02/02	AA	CAF	RTS
ERECTION	03/02/03	PKD	PKD	RTS
REVISED PERMIT	01/01/04	MB	AA	RTS
ERECTION	02/02/04	PKD	PKD	RTS

CUSTOMER NAME: _____

PROJECT NAME: _____

PROJECT LOCATION: _____

PROJECT COUNTY: _____

PROJECT END USE: _____

CUSTOMER PHONE NUMBER: _____

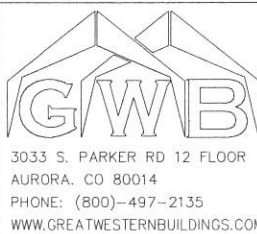
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SCALE: N.T.S.

SHEET NUMBER: 12 OF 15

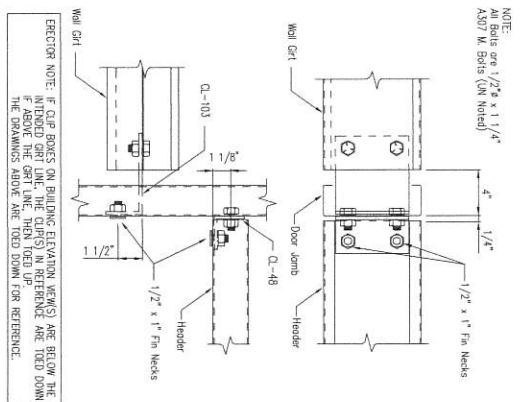
JOB NUMBER: 93903R1

SHEET TITLE: DETAIL DRAWINGS

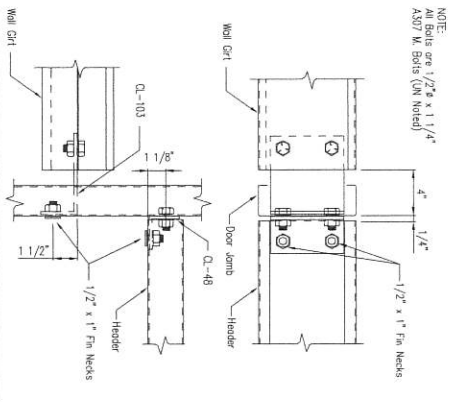
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PROJECT NAME:	
PROJECT LOCATION:	
PROJECT COUNTY:	
PROJECT END USE:	
CUSTOMER PHONE NUMBER:	
CUSTOMER EMAIL:	
SCALE:	N.T.S.
SHEET NUMBER: 13 OF 15	
JOB NUMBER: 93903R1	
SHEET TITLE: DETAIL DRAWINGS	

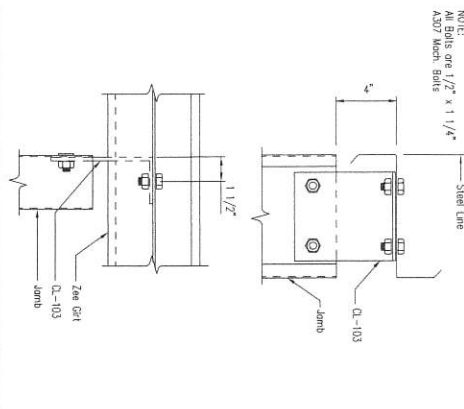
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EJECTOR NOTE: IF CLIP BOXES ON BUILDING ELEVATION VIEW(S) ARE BELOW THE INTENDED GRT LINE, THE CLIP(S) IN REFERENCE ARE TIED DOWN IF ABOVE THE GRT LINE, THEN TIED UP.
THE DRAWINGS ABOVE ARE TIED DOWN FOR REFERENCE.

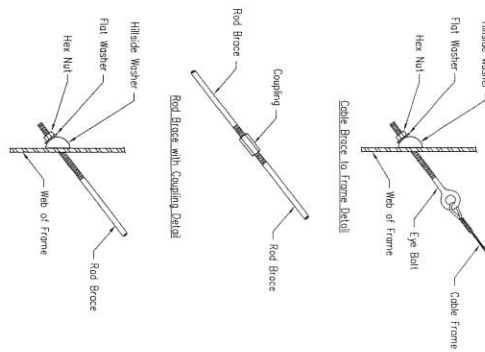


NOTE:
All Bolts are 1/2" Ø x 1 1/4"
A307 M. Bolts (UN Noted)

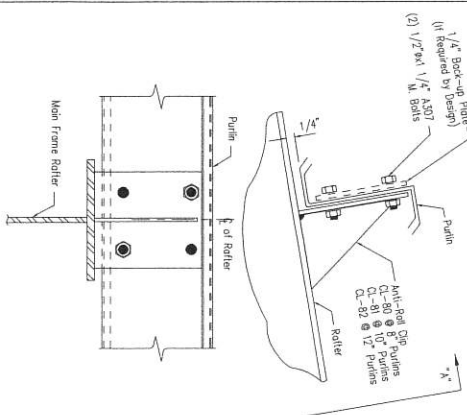


NOTE:
All Bolts are 1/2" x 1 1/4"
A307 Mach. Bolts

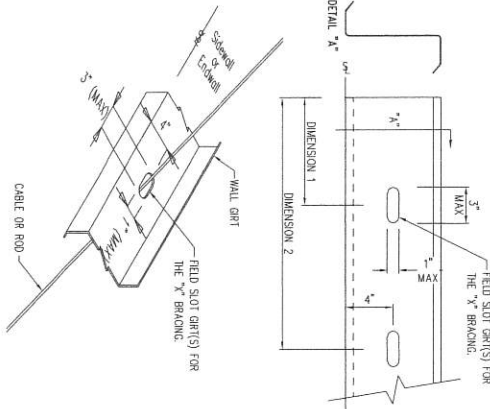
ERECTOR NOTE: F CLIP BOXES ON BUILDING ELEVATION VIEWS ARE LEFT OF THE INTENDED JAMB LINE, THE CLIPS IN REFERENCE ARE TOED LEFT, F RIGHT OF THE JAMB LINE, THEN TOED RIGHT. THE DRAWINGS ABOVE ARE TOED LEFT FOR REFERENCE.



Red Brace to Frame Velour

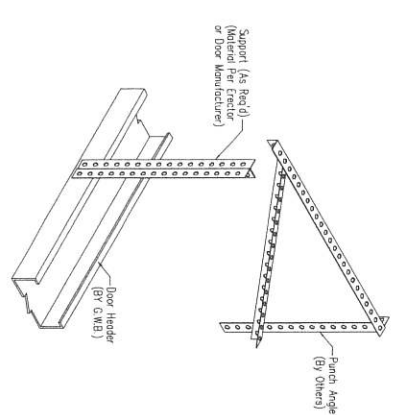


Section "A"

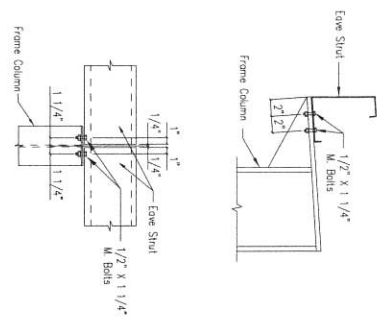


NOTE: FIELD SLOT THE GRT USING THE CORRESPONDING DIMENSIONS AS SHOWN ON THE "FIELD WORK TABLE" ON THE WALL ELEVATION.

Field Work Slotting for Bracing



ERECTOR NOTE: ALL MATERIAL BY OTHERS (U.N.)
FIELD FABRICATE & ASSEMBLE AS REQ'D.
CONNECTION TO MEMBER ABOVE SIMILAR TO HEADER CONNECTION.



<u>Eave Strut at Interior Column</u> By-Pass Sideload	SD59
---	------

Cable or Rod Brace to Frame Connection

SD6E

Jamb to Girt

SD93

Girt/Header to jamb

SD95

Overhead Door Torsion Bar Bearing Connection

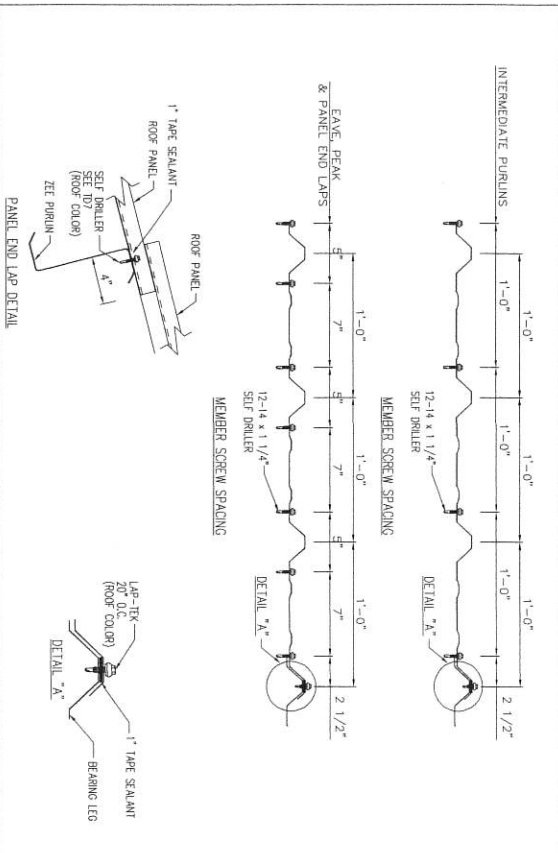
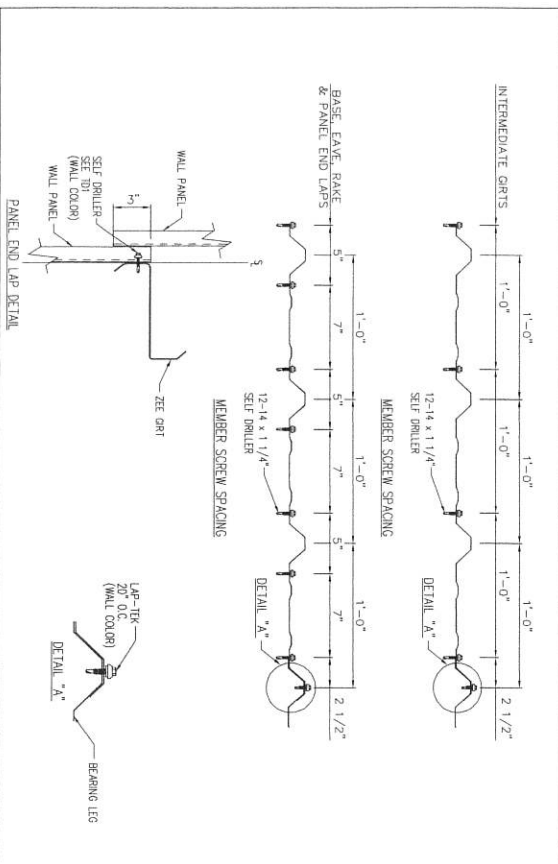
SD101

Purlin to Anti-Roll Clip Connection

SD111

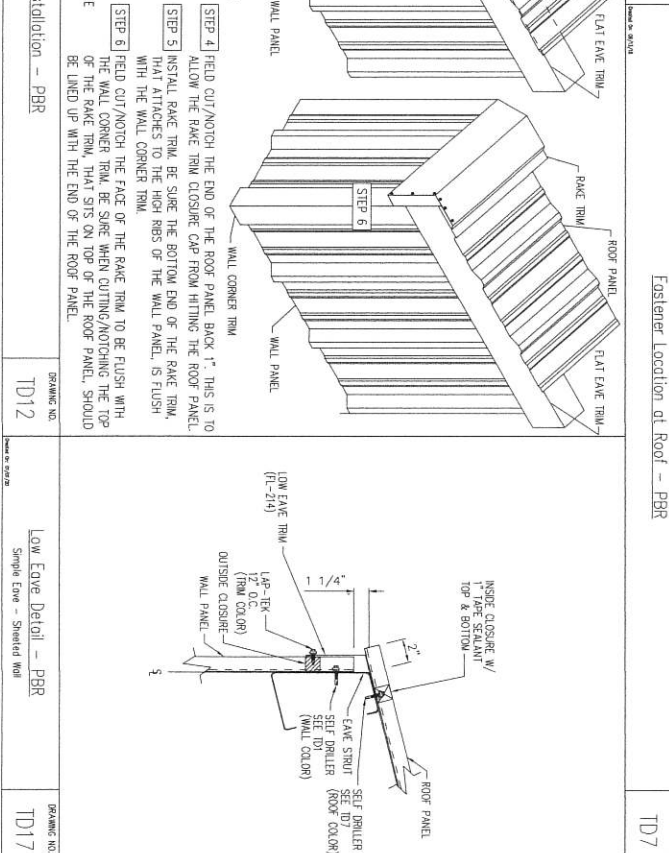
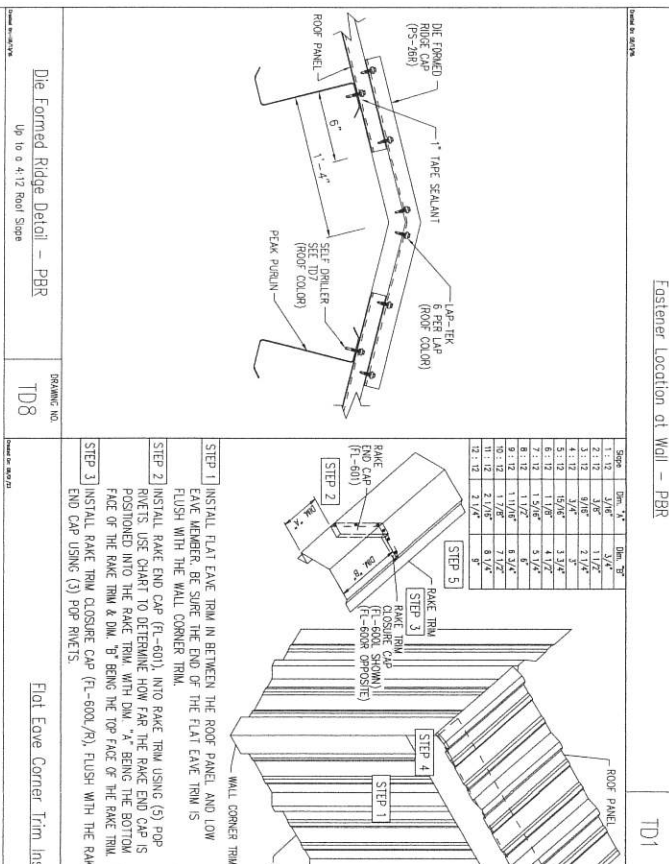
Field Work Slotting for Bracing

SD202



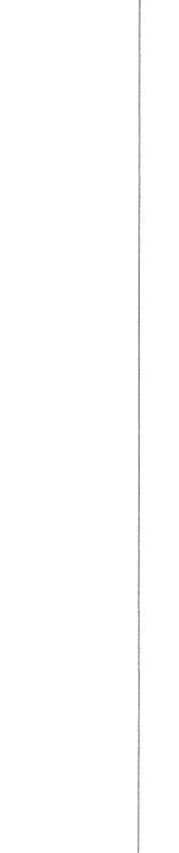
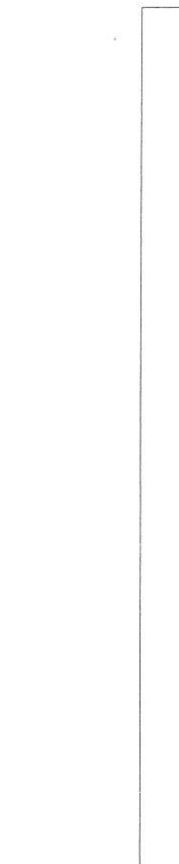
ISSUE	DATE	DWN.	CHK.	ENG.
APPROVAL	9/10/22	MEZ	MEZ	RTS
PERMIT	9/10/22	AA	CAF	RTS
ERECTION	9/10/22	PKD	PKD	RTS
REVISED PERMIT	9/10/22	MB	AA	RTS
ERECTION	9/10/22	PKD	PKD	RTS

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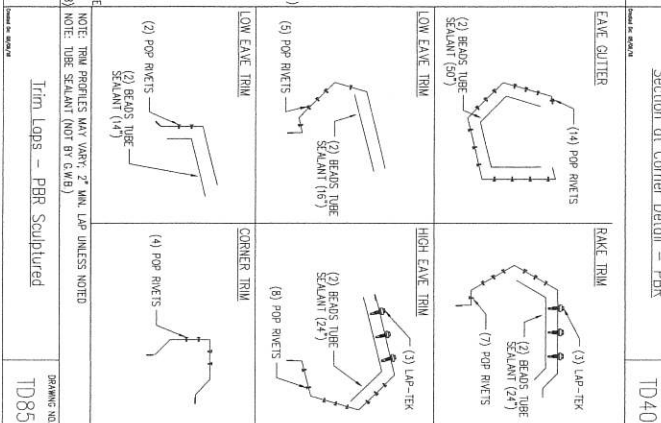
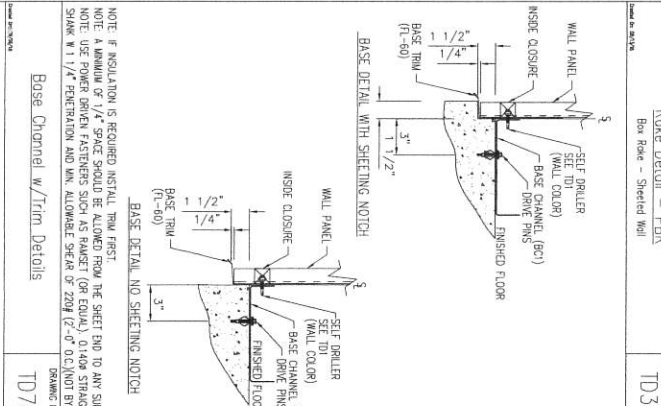
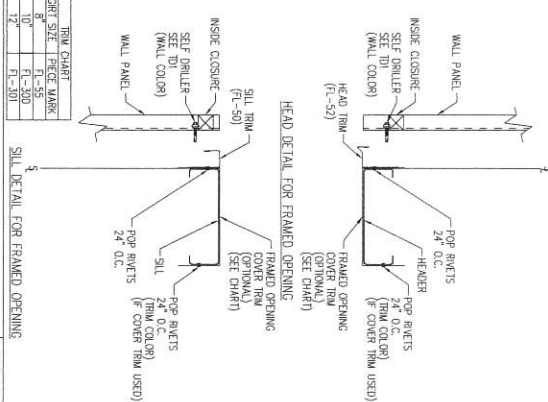
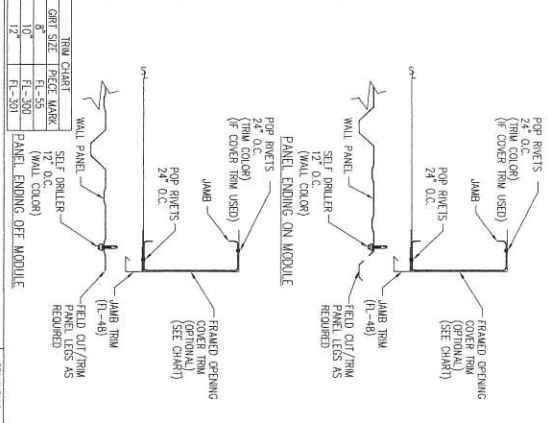
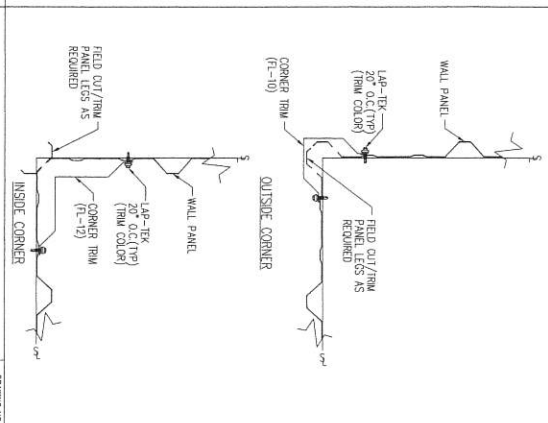
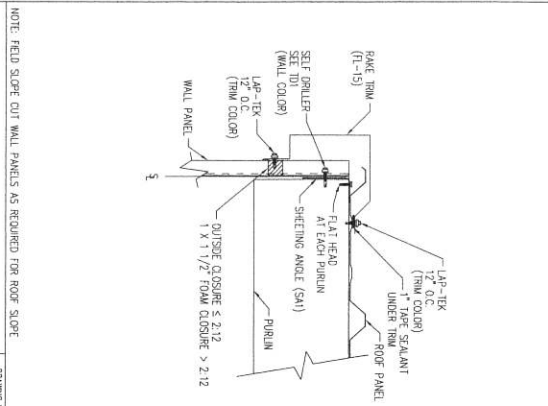
ISSUE	DATE	DWN.	CHK.	ENG.
APPROVAL	9/10/22	MEZ	MEZ	RTS
PERMIT	9/10/22	AA	CAF	RTS
ERECTION	9/10/22	PKD	PKD	RTS
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PERMIT	9/10/22	AA	CAF	RTS
ERECTION	9/10/22	PKD	PKD	RTS
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ISSUE	DATE	DWN.	CHK.	ENG.
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PERMIT	04/02/02	AA	CAF	RTS
ERECTION	01/02/03	PKD	PKD	RTS
REVISED PERMIT	01/02/04	MB	AA	RTS
ERECTION	02/05/04	PKD	PKD	RTS

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CUSTOMER NAME: _____

PROJECT NAME: _____

PROJECT LOCATION: _____

PROJECT COUNTY: _____

PROJECT END USE: _____

CUSTOMER PHONE NUMBER: _____

CUSTOMER EMAIL: _____

SCALE: N.T.S.

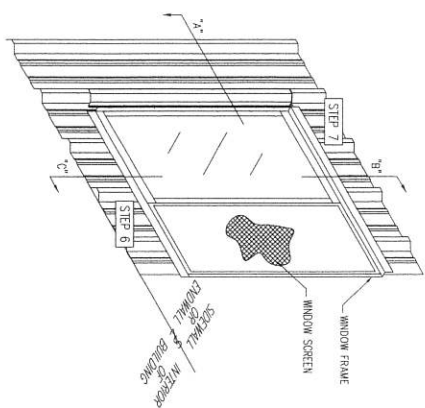
SHEET NUMBER: 15 OF 15

JOB NUMBER: 93903R1

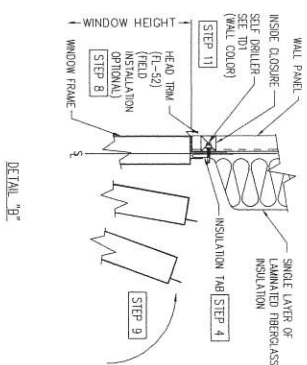
SHEET TITLE: DETAIL DRAWINGS

THIS SEAL PERTAINS ONLY TO THE MATERIALS DESIGNED AND SUPPLIED BY GREAT WESTERN BUILDINGS. THE DRAWINGS AND THE METAL BUILDINGS WHICH THEY REPRESENT ARE THE PRODUCT OF GREAT WESTERN BUILDINGS. THE REGISTERED PROFESSIONAL ENGINEER, WHOSE SEAL AND SIGNATURE APPEARS ON THESE DRAWINGS IS EMPLOYED BY GREAT WESTERN BUILDINGS AND DOES NOT SERVE AS OR REPRESENT THE OVERALL PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.

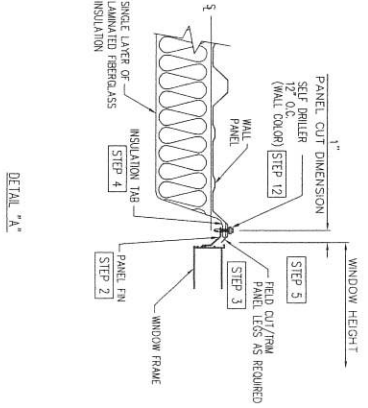
- STEP 1 INSTALL INSULATION (IF REQUIRED) AND WALL SHEETING ALONG ENTIRE WALL.
- STEP 2 SLIDE PANEL FIN, THAT ARE PACKAGED WITH THE WINDOW, DOWN ALONG THE GROOVE JOINTS ON EACH SIDE OF THE WINDOW. BE SURE THAT THE BOTTOM OF EACH FIN IS FLUSH WITH THE BOTTOM OF THE WINDOW FRAME.
- STEP 3 DETERMINE WINDOW LOCATION AND MARK AREA TO BE CUT. NOTE: WINDOW WIDTH MUST FALL ON THE HIGH RIBS OF THE WALL PANEL(S).
- STEP 4 IF INSULATION IS REQUIRED, CUT AND REMOVE THE FIBERGLASS INSULATION FROM THE LAMINATED FACING, APPROXIMATELY 4" FROM INSIDE OF THE WINDOW OPENING. THEN FOLD THE LAMINATED FACING BACK OVER THE TOP OF THE INSULATION, CREATING A TAB. REPEAT FOR EACH SIDE OF THE WINDOW.
- STEP 5 STARTING AT THE TOP AND WORKING DOWN TOWARDS THE WINDOW HEIGHT DIMENSION PLUS AN ADDITIONAL 1/8". FEED CUT THE WALL PANEL 1" FROM CENTER OF THE HIGH RIB, TOWARDS THE WINDOW FRAME, DOWN EACH SIDE OF THE WINDOW.
- STEP 6 FEED CUT THE WALL PANEL, ALONG THE BOTTOM OF THE WINDOW CONNECTING THE TWO PREVIOUS LINES.
- STEP 7 FEED CUT THE WALL PANEL, ALONG THE TOP OF THE WINDOW.
- STEP 8 WITH THE WALL PANEL NOW REMOVED, INSTALL THE HEAD TRIM AND INSIDE CLOSURE ON THE BOTTOM OF THE WALL PANEL, ALONG THE TOP OF THE WINDOW OPENING BY USING SOME MEANS OF TEMPORARY SUPPORT.
- STEP 9 INSTALL THE INSIDE CLOSURE ON THE WALL PANEL, BELOW THE WINDOW. PLACE THE BOTTOM OF THE WINDOW FRAME ON TOP OF THE WALL PANEL. SANDWICH THE LAMINATED FACING TABS BETWEEN THE BOTTOM OF THE WINDOW FRAME AND WALL PANEL. WORKING YOUR WAY UP EACH SIDE WITH THE INSULATION TABS TOWARDS THE TOP OF THE WINDOW WHILE ROTATING THE TOP OF WINDOW FRAME INTO PLACE.
- STEP 10 FASTEN THE BOTTOM OF THE WINDOW FRAME TO THE WALL PANEL FROM THE INTERIOR OF THE BUILDING.
- STEP 11 FASTEN THE TOP OF THE WINDOW FRAME TO THE WALL PANEL FROM THE EXTERIOR OF THE BUILDING. THEN REMOVE TEMPORARY SUPPORT.
- STEP 12 FASTEN THE SIDES OF THE WINDOW FRAME TO THE WALL PANEL FROM THE EXTERIOR OF THE BUILDING.
- STEP 13 CAULK ALL JOINTS OF WINDOW FRAMING AGAINST PANEL FOR WEATHER TIGHTNESS (NOT BY G.C.B.).



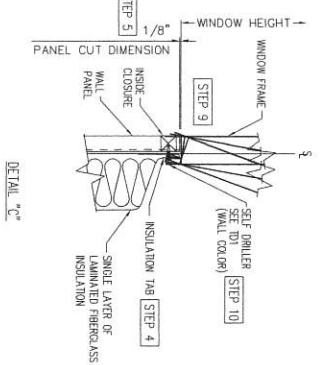
NOTE: WINDOW IS INSTALLED FROM INTERIOR OF THE BUILDING. FRAMED OPENINGS ARE REQUIRED INSTALL AFTER WINDOW IS INSTALLED. NOTE: INSULATION NOT SHOWN FOR CLARITY.



DETAIL "B"



DETAIL "A"



DETAIL "C"

Aluminum Insulated Horizontal Slide Window - PBR

TD354

ISSUE	DATE	DWN.	CHK.	ENG.
APPROVAL	9/1/02	MEZ	MEZ	RTS
PERMIT	9/1/02	AA	CAF	RTS
ERECTION	9/1/02	PKD	PKD	RTS
REVISED PERMIT	9/1/02	MB	AA	RTS

GWBI

3033 S. PARKER RD 12 FLOOR
AURORA, CO 80014
PHONE: (800)-497-2135
WWW.GREATWESTERNBUILDINGS.COM

CUSTOMER NAME: _____

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PROJECT LOCATION: _____

PROJECT COUNTY: _____

PROJECT END USE: _____

CUSTOMER PHONE NUMBER: _____

CUSTOMER EMAIL: _____

SCALE: N.T.S.

SHEET NUMBER: 16 OF 16

JOB NUMBER: 93903R1

SHEET TITLE: DETAIL DRAWINGS

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11/5/2024

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Quote #: 4110102
Sales Rep: STB
email: steven.barton@cobuildings.net

Order # _____
Est. Ship Date: _____
Craftsman: _____

Quote Confirmation

1. BUYER: (where drawings will be mailed)

Name: Ray Jessop
Address: 1848 South Canyon dr.
City: Apple Valley UT 84737
Contact: Ray
Phone: 435-817-1452
Cell: _____
Fax: _____
Email: jessopray@yahoo.com

Project: 1848 South Canyon dr.
Apple Valley UT 84737

2. OWNER: (as it will appear on drawings)

Name: _____
Address: _____
City: _____ State: _____ Zip: _____
Contact: _____
Phone: _____

PROJECT ADDRESS

DELIVERY ADDRESS
(If different than project address)

Engineered Structural Steel Drawings For Construction: 3ea
NO PRODUCTION HOLD, NO SUBMITTALS REQUIRED

3. BUILDING DESIGN:

Building Profile:	Symmetrical Double Slope		
Main Frame Type:	tapered depth 1 rigid frame, with interior columns at: 15.0000 1 rigid frame, clear span		
Width:	33'-0"		
Length:	40'-0"		
Height:	14'-6"	Front Side Wall	
	14'-6"	Back Side Wall	
Inside Clearance:	N A		
Roof Slope:	2.0:12		
Side Wall Bay Spacing:	2 at 20	Girt Design FSW / BSW	Bypass
Left End Wall:	Non-expandable Rigid	Girt Design LEW:	Flush
Right End Wall:	Non-expandable P&B	Girt Design REW:	Flush

4. LOADING CONDITIONS:

Please Verify with your local building official the following information. Price is subject to change accordingly.

Building Use: _____

Building Code:	IBC 2021	Risk Category IV (Table 1604.5)	
Live Load:	20 psf		
Ground Snow Load Pg	24.0 psf		
Flat Roof Snow Load Pf:	20.2 psf (Includes Thermal Ct=1, Exposure, Ce=1, Importance I=1.2)		
Minimum Roof Snow Load:	psf		
Auxiliary:	0 psf		
Wind Load (Ultimate):	111 mph	EXP: C	Risk Category IV
Seismic Site Class:	D (Default)	Seismic Acceleration Ss:	45.3% (I=1.5)
Crane Type:	N A		

Quote #: 4110102
Sales Rep: STB

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5. ROOF COVERING:

Roof Color:	Galvalume	Trim Color:	NEED COLOR
Roof Panel Type:	PBR	Trim Type:	Commercial
Roof Gauge:	26		
Fastener Length:	1.25"		
Roof Lights:	NONE		

6. WALL COVERING:

Wall Color:	NEED COLOR	Trim Color:	NEED COLOR
Wall Panel Type:	PBR		
Wall Gauge:	26		
Fastener Length:	1.25"		
Base Support:	Die Formed Base		
Wall Lights:	NONE		

7. DOOR FRAMED OPENINGS:

Front Sidewall:	none
Back Sidewall:	none
Left Endwall:	(2) 12 W x 12 H
Right Endwall:	none
Door Jamb Cover Color:	NEED COLOR

8. GUTTERS & DOWNSPOUTS: none

(Not recommended over 1:12 roof pitch or greater)

9. WALK DOORS:

Quantity:	1 - 3070KD Walk Door with lever lockset
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10. WINDOW FRAMED OPENINGS:

Quantity:	2ea 4040 WINDOW F.O. - (8" CEE)
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11. INSULATION:

Roof Insulation :	6 "	Wall Insulation:	4 "
Roof Facing:	WMPVR	Wall Facing:	WMPVR

Insulation is Optional ADD \$3,984 TO BASE PRICE

SNS Thermal Block Required: _____

For the Sealed "N" Safe™ thermal block Roof Only (System includes the Sealed "N" Safe™ thermal block and the Sealed "N" Safe™ screws)	ADD \$2,320	TO BASE PRICE
--	-------------	---------------

ADDING THE THERMAL BLOCK DOUBLES THE PERFORMANCE OF THE INSTALLED BATT



320 West 100 North, Ephraim, UT 84627, 800-262-5347 phone, 435-580-8167 fax



Quote #: 4110102
Sales Rep: STB

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12. LINER COVERING: NONE

13. PARTITIONS: NONE

14. SIDEWALL EAVE EXTENSIONS: NONE

15. ENDWALL PURLIN EXTENSIONS: NONE

16. ADDITIONAL INFORMATION:

PRICE & WEIGHT SUMMARY

Freight: 225 MILES (Freight is over paved roads only)

BASE PRICE: \$25,616 EST. WT: 9,350 lbs

Add \$398.00 For Insulation

This quotation is good for **10 Days** from the date shown on the quotation. CO Building Systems will hold prices stable as long as possible but does reserve the right to change pricing as is necessary. Quotation is subject to customer signature on CO Building Systems standard contract. Payment terms are 25% down payment upon acceptance of contract with the balance remaining due by certified check upon delivery of materials to the jobsite.

Price does not include anchor bolts, foundation design, sales tax, or any other taxes.

