Town of Mesilla, New Mexico

THE PLANNING, ZONING AND HISTORICAL APPROPRIATENESS COMMISSION (PZHAC) WILL HOLD A REGULAR MEETING AT THE MESILLA TOWN HALL, 2231 AVENIDA DE MESILLA.

MONDAY, APRIL 4, 2022, AT 2:30 P.M AGENDA

- 1. PLEDGE OF ALLEGIANCE
- 2. ROLL CALL AND DETERMINATION OF A QUORUM
- 3. CHANGES / APPROVAL OF AGENDA
- 4. PUBLIC INPUT

The public is invited to address the commission for up to 3 minutes. You can also email your comments to <u>joep@mesillanm.gov</u> at least twenty-four (24) hours prior to the meeting.

5. APPROVAL OF CONSENT AGENDA

Note: Items on the Consent Agenda, indicated by an asterisk (*), will be voted on with one motion unless a commissioner requests that a specific item be removed for discussion.

a. *PZHAC MINUTES: March 21, 2022, Regular Minutes

6. NEW BUSINESS

- a. <u>PZHAC Case #061363</u> Raley Acres Replat of Lot 2 (BK 23 PG 135-136 1034492), submitted by Leopoldo Quintana to build a premanufactured metal building on said property, **Zoned: Rural Farm (RF).**
- b. <u>PZHAC Case #061364</u> 2043 Calle De Correo, submitted by Alison Tinsley to install a residential rooftop solar system, **Zoned: Historic Residential (HR).**
- c. <u>PZHAC Case #061365</u> 3260 Hwy 28, submitted by Roman Prieto to install a solar panel structure. **Zoned: Residential Agriculture (RA)**
- d. <u>PZHAC Case #061368</u>- 2305 Calle De Colon, submitted by Gerard Nevarez to coat exterior of house with elastomeric and clear coat wood on gate, no changes in colors. **Zoned Historic Residential (HR)**
- e. <u>PZHAC Case #061370</u> 2795 Calle De Sur, submitted by DJ Walker Construction (Jill Kerr New property owner) to remove existing roofing, inspect and replace decking as needed. Install new single ply membrane to manufactures specifications. **Zoned: Residential Agriculture** (RA)
- f. <u>PZHAC Case #061371</u> 331 Capri Arc submitted by Frances Williams to install a ground mounted solar system. **Zoned: Historic Residential (HR)**
- g. <u>Discussion</u> Pappas-Williamson Summary Subdivision a Replat of U.S.R.S. Tract 11A-199 & 11A-198A within the Town of Mesilla, Doña Ana County, N.M. in Section 25, T.23S R.IE of U.S.R.S. Surveys (2532 Calle De Norte)
- 7. COMMISSIONERS / STAFF COMMENTS
- 8. ADJOURNMENT

NOTICE

If you need an accommodation for a disability to enable you to fully participate in the hearing or meeting, please contact us at 524-3262 at least 48 hours prior to the meeting.

Posted on 4/1/2022 at the following locations: Town Hall - 2231 Avenida de Mesilla; Public Safety Building - 2670 Calle de Parian; Mesilla Community Center - 2251 Calle de Santiago; Shorty's Food Mart - 2290 Avenida de Mesilla; Ristramnn - 2531 Avenida de Mesilla, and the U.S. Post Office - 2253 Calle de Parian.

Commissioner Jones - Yes

51

52			Commissioner Walkinshaw - Yes
53			Commissioner Lucero - Yes
54			Commissioner Salas - Yes
55			Commissioner Nevarez - Yes
56			
57			Motion passed.
58			•
59	6.	NE	W BUSINESS
60			
61		a.	PZHAC CASE #061102 – 2785 Bolt submitted by Mr. Steven Sypher. Renewal of permit
62			for an ongoing project to complete the structure. Zoned: Historic Residential (HR)
63			
64			Motion to approve was presented by Commissioner Jones and seconded by
65			Commissioner Nevarez.
66			
67			Staff presented facts of the case. Discussion followed. Mr. Maese from CID was present to
68			answer questions.
69			
70			Commissioner Narvaez moved to amend the motion by requiring the color of the stucce
71			be added to the application and meets Code standards.
72			
73			Discussion followed.
74			
75			Roll Call Vote:
76			Commissioner Jones - Yes
77			Commissioner Walkinshaw – Yes
78			Commissioner Lucero - Yes
79			Commissioner Salas - Yes
80			Commissioner Nevarez - Yes
81			
82			Motion passed.
83			사용구매에 가득하셨다. 1987년
84			Motion by Commissioner Nevarez to approve with the amendment of requiring the
85			color of the stucco be added to the application and meets Code standards.
86			
87			Roll Call Vote:
88			Commissioner Jones - Yes
89			Commissioner Walkinshaw - Yes
90			Commissioner Lucero - Yes
91			Commissioner Salas - Yes
92			Commissioner Nevarez - Yes
93			
94			Motion passed.
95			2.201021 K -1112011
96		h.	PZHAC CASE #061355 – 2481 Calle de Cura submitted by Mrs. Soltero to replace the
97		~•	windows in the front of her home. Zoned: Historical Residential (HR)
98			()
99			Motion to approve was presented by Commissioner Jones and seconded by
100			Commissioner Salas.
101			
102			Staff presented facts of the case. Discussion followed.
			A .

103		Roll Call Vote:
104		Commissioner Jones - Yes
105		Commissioner Walkinshaw - Yes
106		Commissioner Lucero - Yes
107		Commissioner Salas - Yes
108		Commissioner Nevarez - Yes
109		
110		Motion passed.
111		
112	c.	PZHAC CASE #061357 – 2939 Estrada Road submitted by Mr. Gallegos to install a fence
113		on his property. The fence material will be wooden post and horse wiring. Zoned:
114		Residential Agricultural (RA)
115		
116		Motion to approve was presented by Commissioner Nevarez and seconded by
117		Commissioner Salas.
118		
119		Staff presented the facts of the case. Discussion followed.
120		
121		Commissioner Narvaez moved to amend the motion by requiring that the right of entry
122		on both properties be added to the application and meets Code standards.
123		
124		Roll Call Vote:
125		Commissioner Jones - Yes
126		Commissioner Walkinshaw - Yes
127		Commissioner Lucero - Yes with condition
128		Commissioner Salas - Yes with condition
129		Commissioner Nevarez - Yes with condition
130		
131		Motion passed.
132		A CARLES OF THE
133		Motion by Commissioner Nevarez to approve with the amendment of requiring that the
134		right of entry on both properties be added to the application and meets Code standards.
135		right of entry on both properties be added to the appreciation and meets code summarius.
136		Roll Call Vote:
137		Commissioner Jones - Yes
138		Commissioner Walkinshaw - Yes
139		Commissioner Lucero - Yes
140		Commissioner Salas - Yes
140		Commissioner Nevarez - Yes
		Commissioner Nevalez - 1 es
142		Mation paged
143		Motion passed.
144		DZIIAC CASE #061360 2100 Stithes Bood submitted by Mr. Advian Aguirro to build a
145	d.	PZHAC CASE #061360 – 2100 Stithes Road submitted by Mr. Adrian Aguirre to build a
146		metal garage with concrete foundation, additional concrete pad and remove the existing
147		carport. Zone: Residential Agriculture (RA)
148		Mation to approve was presented by Commissioner Torres and seconded by
149		Motion to approve was presented by Commissioner Jones and seconded by
150		Commissioner Salas.
151		Ct.ff
152		Staff presented the facts of the case. Discussion followed.
153		Motion passed, Vote 5-0.

.54 .55	7.	COMMISSON/STAFF COMMENTS
L56 L57		Commissioner Nevarez thanked Community Dev. Coordinator Padilla for preparing the packets which are very useful.
L58		
L59 L60		Community Dev. Coordinator Padilla acknowledged the help and support of Clerk/Treasurer Bush in refining the agenda and the minutes.
L61		
L62 L63	8.	ADJOURNMENT
L64		Meeting adjourned at 3:05 p.m.
L65		7 / 1
L66		
L67		
L68	APP	ROVED THIS 4 th DAY OF APRIL 2022.
L69	751.	
L70		
L71		
172		
173		
174		Yolanda Lucero
175		Chair
176		
177		
178	ATT	EST:
179		
180		
181 182	Too T	Padilla
183		munity Development Coordinator

BOARD ACTION FORM

AGENDA DATE

PZHAC: April 04, 2022,

BOT:

ITEM: PZHAC Case #061363 – Raley Acres Replat of Lot 2 (BK 23 PG 135-136 - 1034492) Stanford Ave., submitted by Leopoldo Quintana to build a premanufactured metal building on said property, Zoned: Rural Farm (RF).

BACKGROUND AND ANALYSIS: This case was not reviewed by the Architectural Styles Committee (ASC) it is in the Rural Farm (RF).

Mr. Leopoldo Quintana purposes to build premanufactured metal building

IMPACT:

- The PZHAC has jurisdiction to recommend approval of the applicant's request for approval of this request to the BOT.
- The applicant has the authority to make an application request to the PZHAC and BOT.
- Due process was provided to the applicant.

Specific findings of fact:

• The proposed work is on applicant's property and not in Town of Mesilla right-of-way.

ALTERNATIVES:

The Planning, Zoning and Historical Appropriateness Commission (PZHAC) may:

- 1. Recommend approval of this case with findings stated above.
- 2. Recommend approval of this case with findings stated above and conditions.
- 3. Deny the application.

DEPARTMENT RECOMMENDATIONS:

SUPPORTING INFORMATION:

- Application
- Plans

TOWN OF MESILLA ZONING APPROVAL

OFFICIAL USE ONLY: Case # 06 /363 Fee \$ 915,50

PERMISSION TO CONDUCT WORK OR OBTAIN A COMMERCIAL/RESIDENTIAL BUILDING PERMIT FROM CID

Reyen 8/0050

	venida de Mesilla	a, P.O. Box					
CASE NO	ZONE: _	131-	CODE:_	AC	AP	PLICATION DA	ATE:
Leopoldo G	Pointana			-	25 6	56-44	nu
						Telephone Num	***
Name of Property Owner		100	0	7		relephone Num	28,00(
1103 Junion	Address	City	Cruce	()	State		Zip Code
Property Owner's Mailing					State		Zip Code
L-Co 890254 Property Owner's E-mail		CON			_		
/ / /							
Contractor's Name & Add	ontalez	note Solf					
575- 317 - 57		cate Sell)					
Contractor's Telephone N		Con	tractor's Tax	c ID Numbe	er	Contractor's L	icense Number
			Alexander and the San	100			
Address of Proposed Wo							
Description of Proposed \	Nork: Herbor	sterl 6	remanut	artured	me	tal Build	line
zoodipaori di Fropodod	775		Cr. Wrist				0
TOUR DEST		0					
(00,000	1/1	1-				3-1	4-22
Estimated Cost	Signature of	Applicant			_	Date	1 00
Estimated Cost	Signature of	Applicant	1			Date	
Signature of property ow	ner:	///					
With the exception of ad		vals all no	rmit request	te muet un	dergo a rev	lew process from	n staff, PZHAC and/or B
efore issuance of a zoni	ng permit. Plan s	sheets are t	o be no large	er than 11 x	17 inches	or shall be subm	itted electronically.
1	/	ron	OFFICIA	uere			
ZHAC DA	elministrativa Annu		OFFICIA	BOT	NLY	□ Approved	Date:
	dministrative Appr			вот			
	pproved Date:					☐ Disapprov	ed Date:
	isapproved Date:					□ Approved	with Conditions
□ A	approved with cond	ditions					
ZHAC APPROVAL REC	QUIRED:YES	NO	BOTA	PPROVAL	REQUIRE	D:YES	_ NO
				OFF	CONFITIO	NG	
CID PERMIT/INSPECTIO	IN REQUIRED:	YES	NO	SEE	CONDITIO	NS	
CONDITIONS:							
ERMISSION ISSUED/I	DENIED BY:					ISSUE DA	TE:
NIVIOSIOIV ISSUEDII	DENIED DI,					_ local bit	
IS APPLICATION SHAL	LINCLUDE ALL C	OF THE FO	LOWING:				
				ures, adjoir	ning street	s, driveway(s), i	mprovements & setbac
Verification shall		t was LEG	ALLY subc	livided thro	ough the T	own of Mesilla	or that the lot has been
existence prior to							
Site Plan with din Foundation plan	nensions and detai	ils.					
Floor plan showir	ng rooms, their use	es and dime	nsions.				
Cross section of	A TOTAL CONTRACTOR OF THE PARTY		V-04004000				
Roof and floor fra							
Proof of legal acc	cess to the property	y.					
Drainage plan.	otural atula and	lor cohem-	(obealdlet in	oluded for t	Historical -	ones) discrem	and elevations
	ctural style and col						mit or statement from
	iding water service		c tank pen	int, piooi	or water s	orvice (well bei	mit of statement from
	cess to the propert						
	CONTRACTOR OF THE PROPERTY OF		the City Con	le or Comm	nunity Deve	lopment Departn	nent (See other side.)
						THE RESERVE AND DESCRIPTIONS OF THE PERSON NAMED IN	CONTRACTOR OF THE PROPERTY OF

The following are requirements to be included with all building permit applications for new structures or additions to existing structures, as well as other construction or fixtures that will be permanent in nature and affect the appearance or use of the property. (This includes fences, well houses, storage units, metal sheds, photo-voltaic panels that can be seen from the ground, etc.)

BUILDING PERMIT REQUIREMENTS

- A. Completed application, including:
 - 1. Applicant's name
 - 2. Applicant/property owners contact information
 - 3. Physical address of property
 - 4. Description of work to be done, including dimensions of any construction or repairs
 - 5. Value of work to be done
 - 6. Property owner's signature on the application

В.	Include all information required in the checklist at the bottom of the application.
C.	Additional information required:

Stanford St.

Layer Visibility:

- ✓ Roads
- ☐ City Limits
- ☐ MLS Zones
- ☐ Address Labels
- 2014 Aerial Photo
- Parcels



ACCOUNTNUMBER:	R0400805	PARCELNUMBER:	4007137260243
OWNERNAME:	QUINTANA LEOPOLDO A	MAILADDR1:	1103 JUNIPER AVE
CITY:	LAS CRUCES	STATE:	NM
ZIP:	88001	LOT:	2A
BLOCK:		SUBNAME:	RALEY ACRES REPLAT OF LOT 2 (BK 23 PG 135-136 - 1034492)
TRS:	23S 2E 30	SITUSADDRS:	STANDFORD ST
TOTAL ACRES:	5		



June 30, 2020

DIVERGENT SOLUTIONS 5450 SOUTH CABALLO ROAD TUCSON, AZ 85746

17-B-68454 DIVERGENT SOLUTIONS 5450 SOUTH CABALLO ROAD TUCSON, AZ 85746

40'-0" x 60'-0" x 15'-6"

To Whom It May Concern:

This is to certify that materials for the subject structure have been designed in accordance with the order documents, specifically as shown per the attached Engineering Design Criteria Sheet.

Aspects of code compliance as related to use or occupancy, such as sprinkler requirements, are not addressed by these documents.

These materials, when properly erected on an adequate foundation in accordance with the erection drawings as supplied and using the components as furnished, will meet the attached loading requirements.

This certification does not cover field modifications or the design of materials not furnished by Metal Depots.

The attached design criteria information is to remain with and form part of this Letter of Certification.

The calculations and the metal building they represent are the product of Metal Depots or a division of its affiliate Cornerstone Building Brands. The engineer whose seal appears hereon is employed by either Metal Depots or a division of its affiliate Cornerstone Building Brands and is not the engineer of record for this project.

Cordially,

Metal Depots Materials for Metal Buildings A Cornerstone Building Brands Compan

Jay S. Surmieda, P.E. Design Engineer



Expires 6/30/2021

This document has been digitally signed.



Building Code	. IBC 15
Risk Category	. II - Normal
Roof Dead Load	
Superimposed	
Collateral	0.5 psf (Total)
(0.00 psf Ceiling, 0.5 psf Other)	
Roof Live Load	. 20.00 psf Yes reduction
Snow	3.247.72
Ground Snow Load (Pg)	
Snow Load Importance Factor (Is	
Snow Exposure Factor (Ce)	
Thermal Factor (Ct)	
Flat Roof Snow Load (Pf)	
Minimum Roof Snow Load (Pm)	. 5.00 pst
Wind	116
Ultimate Wind Speed (Vult)	
Nominal Wind Speed (Vasd)	
Serviceability Wind Speed	
Wind Exposure Category Internal Pressure Coef (GCpi)	
Loads for components not provid	
Wall Edge Zones 23.77 psf pres	- 14 - F
Other Wall Zones 23.77 psf pres	
	lues required based on a 10 sq ft area.
Components with larger areas ma	
Seismic	y have rower wind roads.
Seismic Importance Factor (Ie)	1.00
Seismic Design Category	
Soil Site Class	
	. 0.272 g Sds 0.287 g
S1	
Analysis Procedure	
LocationInt RF Front S	
System H H	н н н
R 3 3	3 3 3
Cs 0.096 0.096	0.096 0.096 0.096
Design Base Shear in kips (V)	Transverse 1.34 Longitudinal 1.35
Basic Structural System (from A	SCE 7-10 Table 12.2-1)
System - Basic Force Resisting	System
H - Steel System not Specifi	cally Detailed for Seismic Resistance
C4 - Steel Ordinary Moment Fr	ames
B3 - Steel Ordinary Concentri	
G2 - Cantilevered Column Syst	
R - Response Modification Co Cs - Seismic Response Coeffic	efficient
	Y 1 1 1794 - 7 180 C 1 7 180

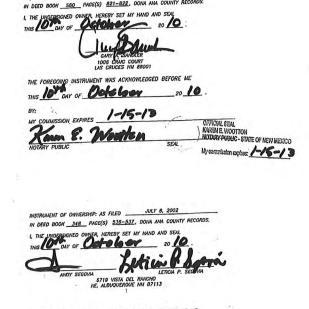
17-B-68454 Page 2 of 2

RALEY ACRES REPLAT OF LOT 2

BEING A REPLAT OF LOT 2, RALEY ACRES FILED MARCH 25, 2002, IN BOOK 20, PAGES 37-38 DONA ANA COUNTY RECORDS, ALSO BEING U.S.R.S. TRACTS 11D-6A1A2, 11D-6A1A3, 11D-6A1A4 AND 11D-6B TOWN OF MESILLA, DONA ANA COUNTY, NEW MEXICO FEBRUARY, 2007 SCALE:1"=100'

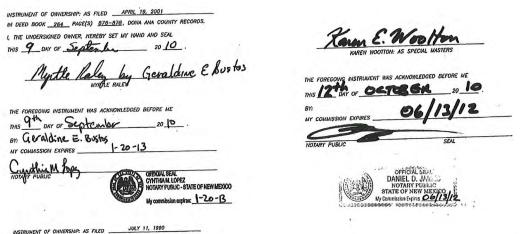
24.520 ACRES TOTAL

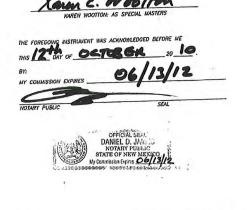
PROJECT NO SCALE VICINITY MAP

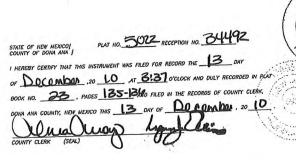


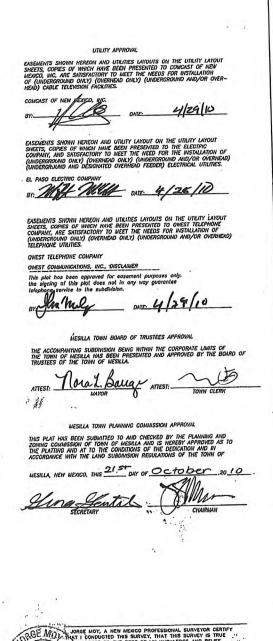
THIS OF DEFORMED 20 10

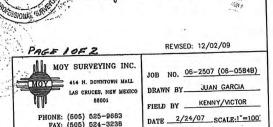
CV 2009-2789



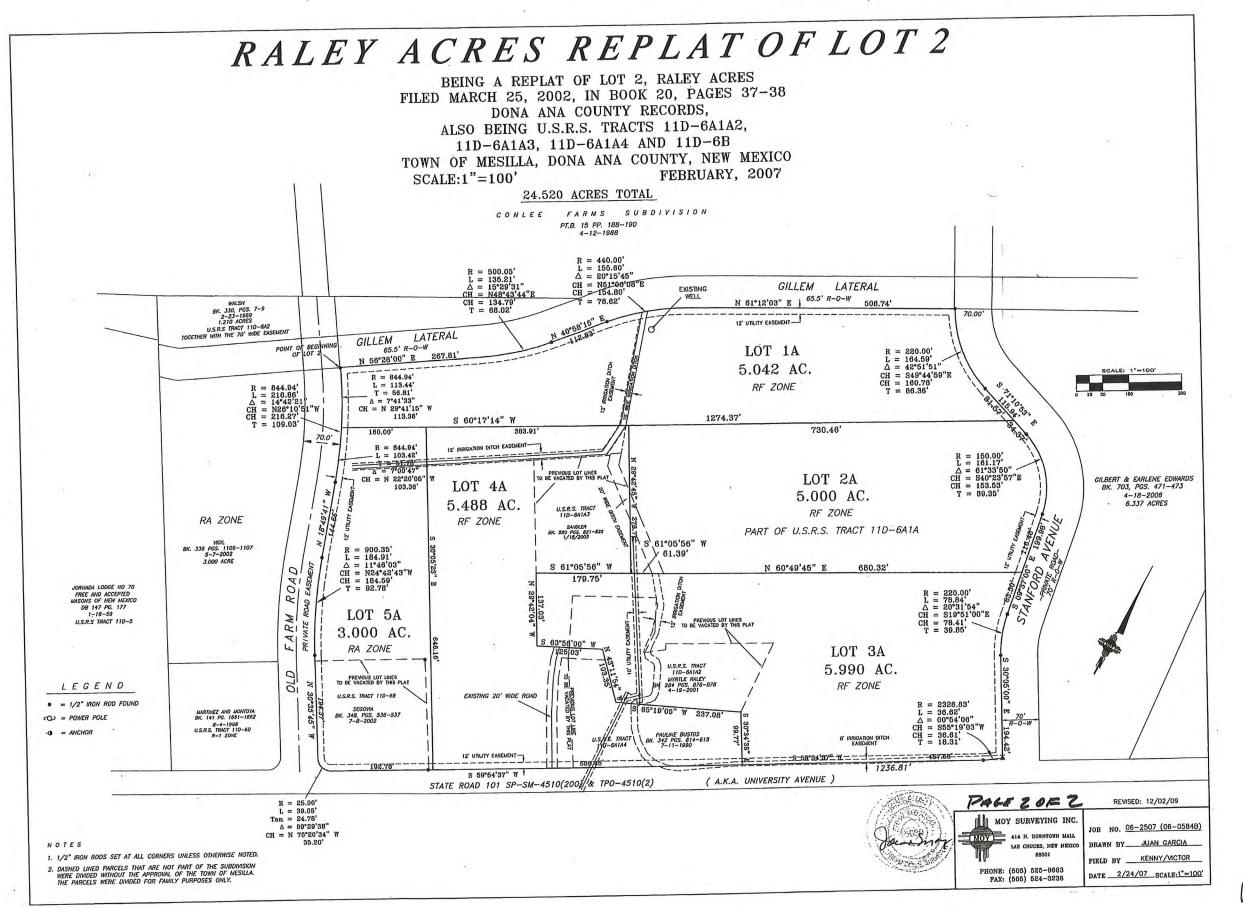








THIS and DAY OF September Br: Pauline Bustos MY COMMISSION EXPIRES 1-20-1



6.0(# 9ZES*

BUILDER/CONTRACTOR RESPONSIBILITIES

<u>Drawing Validity</u> — 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.

<u>Builder Acceptance of Drawings</u> — 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 June 15 2016 Section 4.2.1, 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 June 15 2016 Section 7.9.1, 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 June 15 2016 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 12 Chapter 4 Section 3.2.2 and Appendix A3)

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, or ASTM A1011 with 55 ksi min. yield, except flanges wider than 12" and thicker than 3/8", all flanges thicker than 1", and all webs thicker than 3/8" are 50 ksi min. yield. Rod X-bracing conforms to ASTM A529 or ASTM A572 with 50 ksi min. yield. Cable X-bracing conforms to ASTM A475 7 Strand Extra High-Strength grade. Hot rolled structural shapes conform to ASTM A992, ASTM A529, or ASTM A572 with 50 ksi min. yield. Hot rolled angles, other than flange braces, conform to ASTM A36 minimum. Round and rectangular HSS conforms to ASTM A500 Grade B. Cold-formed steel secondary framing Members conform to ASTM A1011 or ASTM A653 Grade 55 with 55 ksi min. yield.

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

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.

ENGINEERING DESIGN CRITERIA

В	ilding Code	IBC 15
В	uilding Risk Category	II – Normal
R	oof Dead Load	
	SuperimposedCollateral	2.000 psf
	(0.00 psf Ceiling 0.5 psf Other)	0.5 psf (Total)
R	(0.00 psf Ceiling 0.5 psf Other) pof Live Load20.00 psf (re	ducible)
Si	now	
	Convert Consultant (Da)	5 OO nof

	Ground Snow Load (Pg)	5.00 p
	Snow Load Importance Factor (Is)	1.00
	Snow Exposure Factor (Ce)	1.00
	Thermal Factor (Ct)	1.00
	Flat Roof Snow Load (Pf)	
	Minimum Roof Snow Load (Pm)	5.00 p
lind		

Ultimate Wi	nd Speed	(Vult)	115	mph
Nominal Wi	nd Speed	(Vasd)	89	mph
Serviceabili				
Wind Expos				
Internal Pre	essure Coe	fficient (GCpi) 0.18	/ -0.18
Loads for manufactur	component er.	s not pro	ovided by	building
Wall	Edge Zone	s 23.77	psf press	ure
	-	-31.77	psf suction	n

Other Wall Zones 23.77 psf pressure -25.78 psf suction These values are the maximum values required based on a 10 square foot area. Components with larger areas may have lower wind loads.

Zones per ASCE 7-10; FIG. 30.4-1 Zones pressures shown are Un-Factored

Seisi

mic			
S	eismic Importance Fac	tor (le)	1.00
	eismic Design Category		
	oil Site Class		
S	s 0.272 q	Sds	0.287 g
S	51 0.077 g	Sd1	0.123 g
A	nalysis Procedure	Equivalent La	ateral Force

Location	Int RF	Front SW	Back SW	Left EW	Right EW	
System		Н	Н	Н	Н	
R	3	3	3	3	3	
Cs	0.096	0.096	0.096	0.096	0.096	

Design Base Shear in kips (V) Transverse 1.34 Design Base Shear in kips (V) Longitudinal 1.35

System - Basic Force Resisting System H - Steel System not Specifically Detailed for Seismic Resistance

C4 - Steel Ordinary Moment Frames B3 — Steel Ordinary Concentric Braced Frames G2 — Cantilevered Column System

R - Response Modification Coefficient

Cs - Seismic Response Coefficient Transverse - Direction Parallel to the Rigid Frames Longitudinal - Direction Perpendicular to the Rigid Frames

Building Descriptions

40

60

Building ID

Building A

Width(ft) | Length(ft) | Height(ft) | Slope

15.5

3.0:12

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
E6	RIGHT ENDWALL
E7	FRAME CROSS SECTION
DET1-18	STANDARD DETAILS
R1-R3	INSTALLATION SHEETS

Drawing Index

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 CONSTRUCTION PERMIT These drawings, being for Permit, are by definition not final. Only drawings issued "For Erector Installation" can be considered as complete.

X FOR ERECTOR INSTALLATION Final drawings for construction.

For questions or assistance Concerning Erection call: 1-800-531-2731

ENGINEERING SEAL

Monday-Friday 7:30am to 5:00pm

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacture only. The undersigned engineer is not the overall engineer of record for this project.



Expires 6/30/2021

SONA, U.S

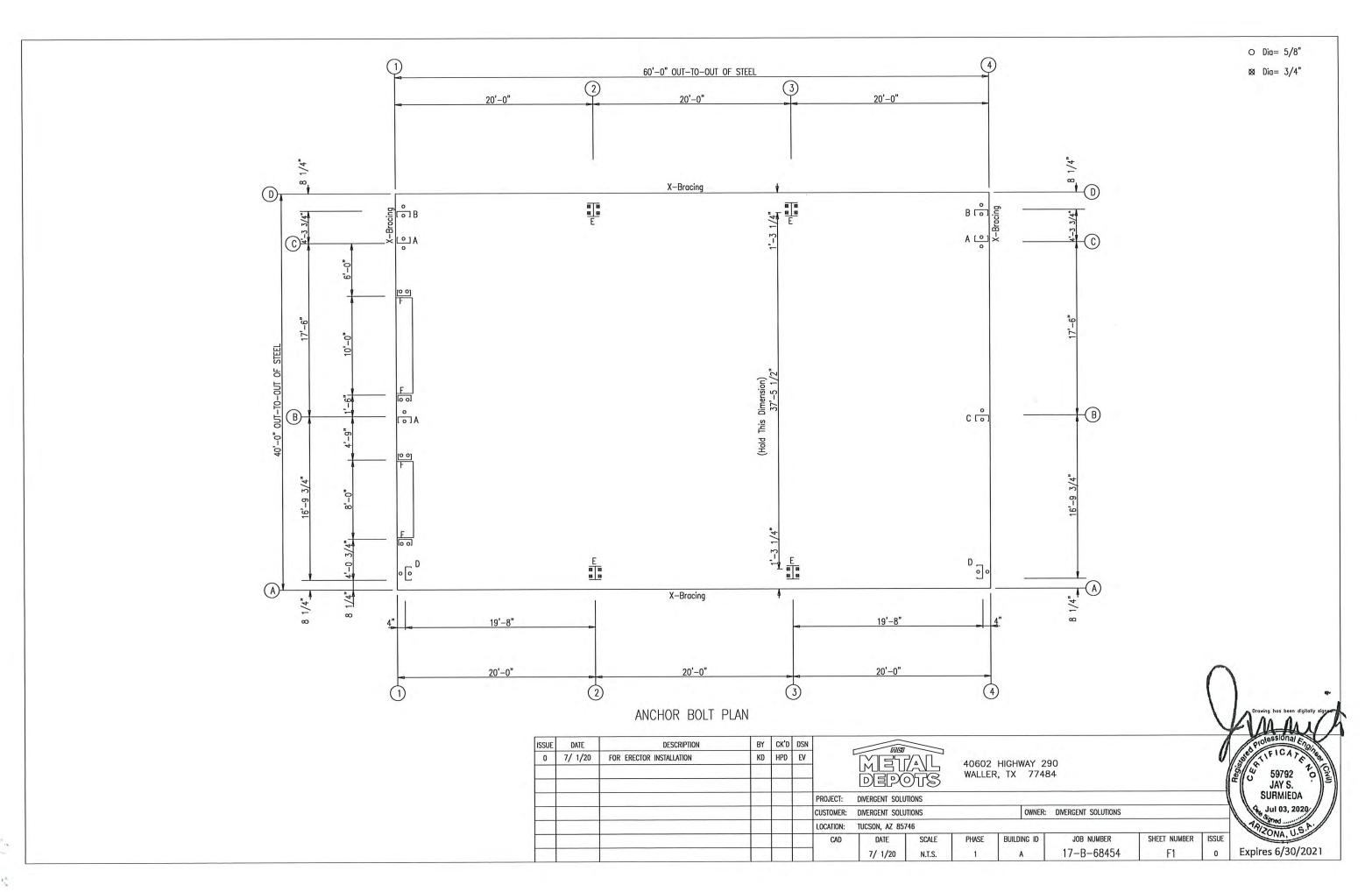
Download panel installation manuals from: www.ncimanuals.com

Descarque los manuales de instalación del panel desde:

	1/2"ø A	325 BOLT GRIP TABLE
GRIP	LENGTH	BOLT LENGTH NOTE: FULL THREAD ENGAGEMENT IS
0 TO 9/16"	1 1/4" F.T.	DEEMED TO HAVE BEEN MET
Over 9/16" TO 1 1/16"	1 3/4" F.T.	WHEN THE END OF THE BOLL
Over 1 1/16" TO 1 5/16"	2"	is flush with the face of the nut.
Over 1 5/16" TO 1 9/16"	2 1/4"	
Over 1 9/16" TO 1 13/16"	2 1/2"	WASHER REQUIRED ONLY WHEN SPECIFIED
Over 1 13/16" TO 2 1/16"	2 3/4"	GRIP WASHER MAY BE LOCATED UNDER HEAD OF BOLT, UNDER NUT, OR AT BOTH AT
LOCATIONS OF BOLTS LONGER	THAN 2 3/4"	LOCATIONS NOTED ON ERECTION DRAWING
NOTED ON ERECTION DRAWINGS		ADD 5/32" FOR EACH WASHER TO MATER THICKNESS TO DETERMINE GRIP.
F.T. DENOTES FULLY THRE	ADED	THICKNESS TO DETERMINE GRIP.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN			- ING						
0	7/ 1/20	FOR ERECTOR INSTALLATION	KD	HPD	EV							GHWAY 290 TX 77484		
						PROJECT:	DIVERGENT SOLU							
						CUSTOMER:	DIVERGENT SOLU			OV	WNER:	DIVERGENT SOLUTIONS		
						LOCATION:	TUCSON, AZ 857	46						
						CAD	DATE	SCALE	PHASE	BUILDING	ID	JOB NUMBER	SHEET NUMBER	ISSUE
-							7/ 1/20	N.T.S.	1	A	- 1	17-B-68454	C1	0

Rev. 4/16/2020



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 PROCEDORS TO 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 PROCEDURES AND ALLOW FOR AN ECONOMICAL FOUNDATION
- 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 HINSELF 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 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. ANOHOR RODS ARE ASTM F1554 GRADE 36 MATERIAL UNLESS

BUILDING BRACING REACTIONS

—-w	oll —	- Col	Reactions in plane of wall ± Reactions(k) Panel_Shear — Wind — Seismic — (lb/ft)
Loc	Line	Line	Horz Vert Horz Vert Wind Seis
L EW	1	D.C	Bracing, see EW reactions
F_SW	A	D,C 2,3	2.7 * 0.7 *
D EW	4	C,D	Bracing, see EW reactions

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

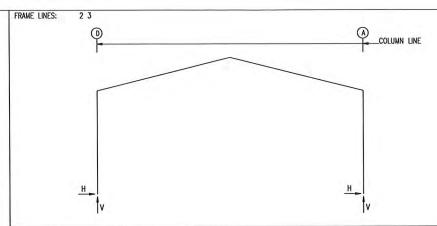
ENDV	VALL	COLUMN:		BASIC	COLUMN	REACTION	NS (k)	T							12.1
Frm Line 1 1 1	Col Line D C B A	Dead Vert 0.0 0.5 0.6 0.3	Collat Vert 0.0 0.1 0.1 0.0	Live Vert -0.3 2.9 4.1 1.4	V€ -0 0.		Wind_Le Horz -1.7 0.0 0.0 0.0	Vert -5.4 2.1 -2.8 -1.4	Wind_Ri Horz 0.0 1.7 0.0 0.0	ght1 Vert 6.2 -8.0 -4.2 -1.5	Wind_Le Horz -1.7 0.0 0.0 0.0	Vert -5.4 3.2 -1.7 -0.7	Wind_Ri Horz 0.0 1.7 0.0 0.0	ght2 Vert 6.4 -7.1 -3.1 -0.8	Wind Press Horz 0.0 -1.6 -3.0 0.0
Frm Line 1 1 1	Col Line D C B A	Wind Suct Horz 0.0 1.8 3.4 0.0	Wind_Le Horz 0.0 0.5 0.0	ong1 Vert 2.3 -5.3 -3.2 -0.9	Wind_L Horz -0.5 0.0 0.0	vert -1.7 0.0 -3.7 -1.8	Seis Horz -0.3 0.0 0.0 0.0	Left Vert -1.0 0.9 0.0 0.0	Seis_ Horz 0.0 0.3 0.0 0.0	Right Vert 1.0 -1.0 -0.1 0.0	-MIN Horz 0.0 0.0 0.0 0.0	_SNOW Vert -0.1 0.7 1.0 0.4	E1UN Horz 0.0 0.0 0.0 0.0	B_SL_L- Vert -0.2 0.7 0.6 0.0	
Frm Line 1 1 1	Col Line D C B A	0.0 0.0 0.0	_R- Vert 0.0 0.1 0.8 0.3												
Frm Line 4 4 4	Col Line A B C D	Dead Vert 0.2 0.6 0.5 0.0	Collat Vert 0.0 0.1 0.1	Live Vert 1.4 4.1 2.9 -0.3	V. 0	now ert 1.2 1.7 1.5	Wind_Le Horz 0.0 0.0 -1.7 0.0	Vert -1.5 -4.2 -8.0 6.2	Wind_R Horz 0.0 0.0 0.0 1.7	ight1 Vert -1.4 -2.8 2.1 -5.4	Wind_Le Horz 0.0 0.0 -1.7 0.0	Vert -0.8 -3.1 -7.1 6.4	Wind_R Horz 0.0 0.0 0.0 1.7	ight2 Vert -0.7 -1.7 3.2 -5.4	Wind Press Horz 0.0 -3.0 -1.6 0.0
Frm Line 4 4 4 4	Col Line A B C D	Wind Suct Horz 0.0 3.4 1.8 0.0	Wind_L Horz 0.0 0.0 0.0 0.5	ong1 Vert -1.8 -3.7 0.0 -1.7	Wind_L Horz 0.0 0.0 -0.5 0.0	Vert -0.9 -3.2 -5.3 2.3	Seis Horz 0.0 0.0 -0.3 0.0	s_Left Vert 0.0 -0.1 -1.0 1.0	Seis_ Horz 0.0 0.0 0.0 0.3	_Right Vert 0.0 0.0 0.9 -1.0	-MIN Horz 0.0 0.0 0.0 0.0	_SNOW Vert 0.4 1.0 0.7 -0.1	E2UN Horz 0.0 0.0 0.0 0.0	Vert 0.3 0.8 0.1 0.0	
Frm Line 4 4 4	Col Line A B C D	0.0 0.0 0.0	_R- Vert 0.0 0.6 0.7 -0.2												
									- 1	NOTES	FOR R	FACTION	S		

NOTES FOR REACTIONS

BUILDING REACTIONS ARE BASED ON THE FOLLOWING BUILDING DATA:

= 40 = 60 = 15.5 / 15.5 = 3.0:12 / 3.0:12 = 20.00 = 12 = 3.5 = 5.00 = 115 = 18C WIDTH (FT)
LENGTH (FT)
LENGTH (FT)
ROOF SLOPE (rise_/12)
DEAD LOAD (psf)
COLLATERAL LOAD (psf)
ROOF LIVE LOAD (psf)
ROOF SNOW LOAD (psf)
ROOF SNOW LOAD (psf)
MINIMUM ROOF SNOW LOAD (psf)
WIND SPEED (MPH)
WIND COBE WIND CODE EXPOSURE CLOSED/OPEN = IBC 15 = B = B = Closed = 1.00 = 1.00 IMPORTANCE - WIND IMPORTANCE - SEISMIC SEISMIC ZONE = B 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_R = Rigid Frame Unbalanced Snow Right



RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm	Col	Anc.	_Bolt		Plate (in)		Grout
Line	Line	Qty	Dia	Width	Length	Thick	(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

2* Frame lines: 2 3

RIGID FRAME: BASIC COLUMN REACTIONS (k)

--Collateral-loriz Vert 0.1 0.2 -0.1 0.2 --Live--Vert 4.8 4.8 ----Wind_Left1- -Wind_Right1-Horiz Vert Horiz Vert -4.4 -7.6 1.4 -4.4 -1.4 -4.4 4.4 -7.6 Dead----Vert 1.3 1.3 Horiz 1.7 -1.7 -----Snow---Horiz Vert 0.5 1.4 -0.5 1.4 Line D A Horiz 0.1 -0.1 Line 2* 2* Horiz 0.4 -0.4 Seismic_Right Horiz Vert 0.2 0.2 0.2 -0.2 Frame Column --Wind_Left2- -Wind_Right2-Line Line Horiz Vert Horiz Vert 2* D -4.8 -4.7 1.0 -1.5 2* A -1.0 -1.5 4.8 -4.7 Horiz 0.5 0.1

2

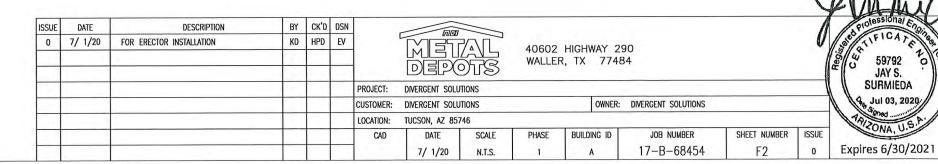
Frome Column -Seismic_Long -MIN_SNOW-- F1UNB_SL_L-Line Line Horiz Vert Horiz Vert Horiz Vert 2* D 0.0 -0.5 0.7 2.0 0.4 1.4 2* A 0.0 -0.5 -0.7 2.0 -0.4 0.9 F1UNB_SL_R-Horiz Vert 0.4 0.9 -0.4 1.4

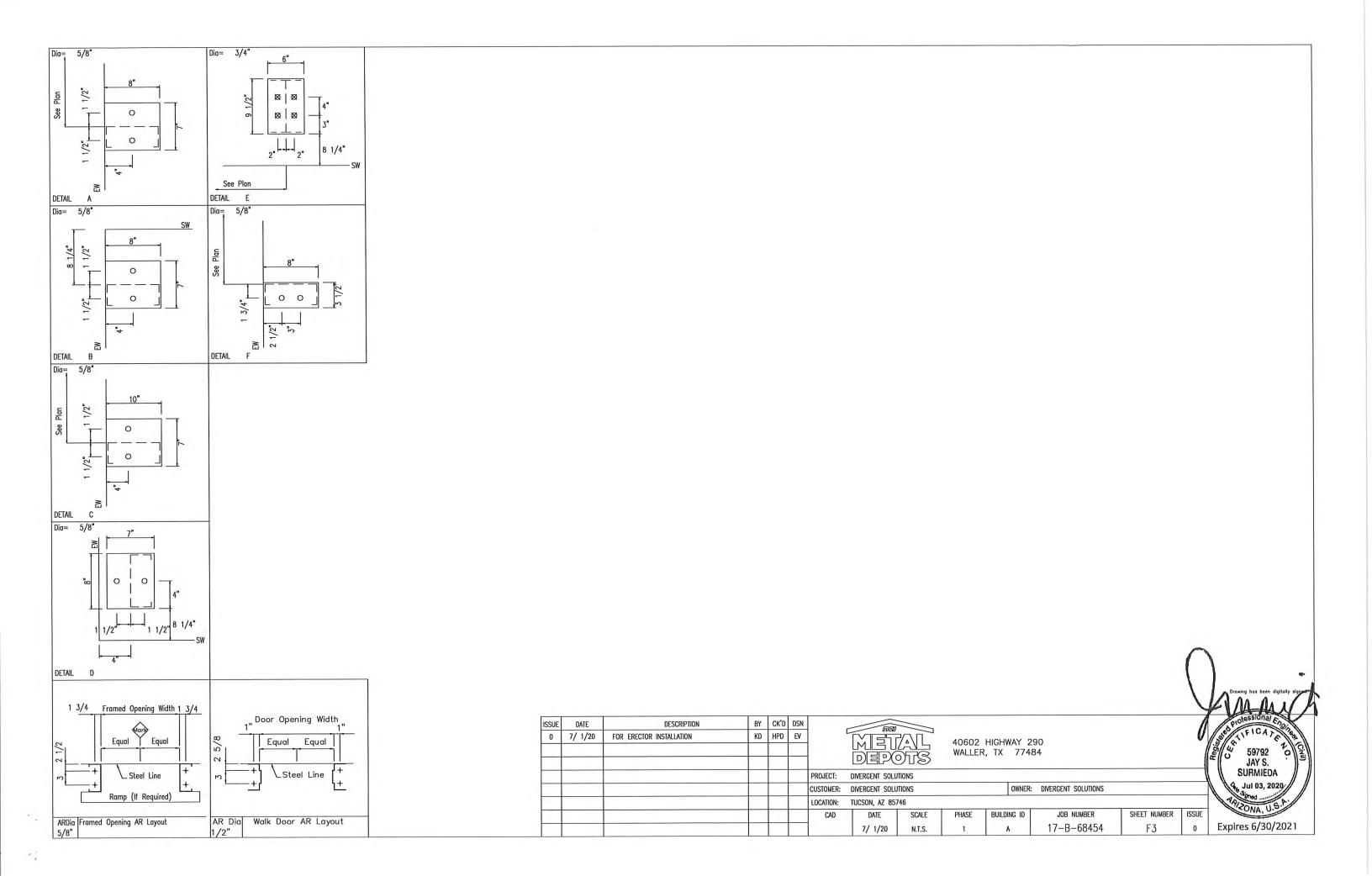
2* Frame lines: 2 3

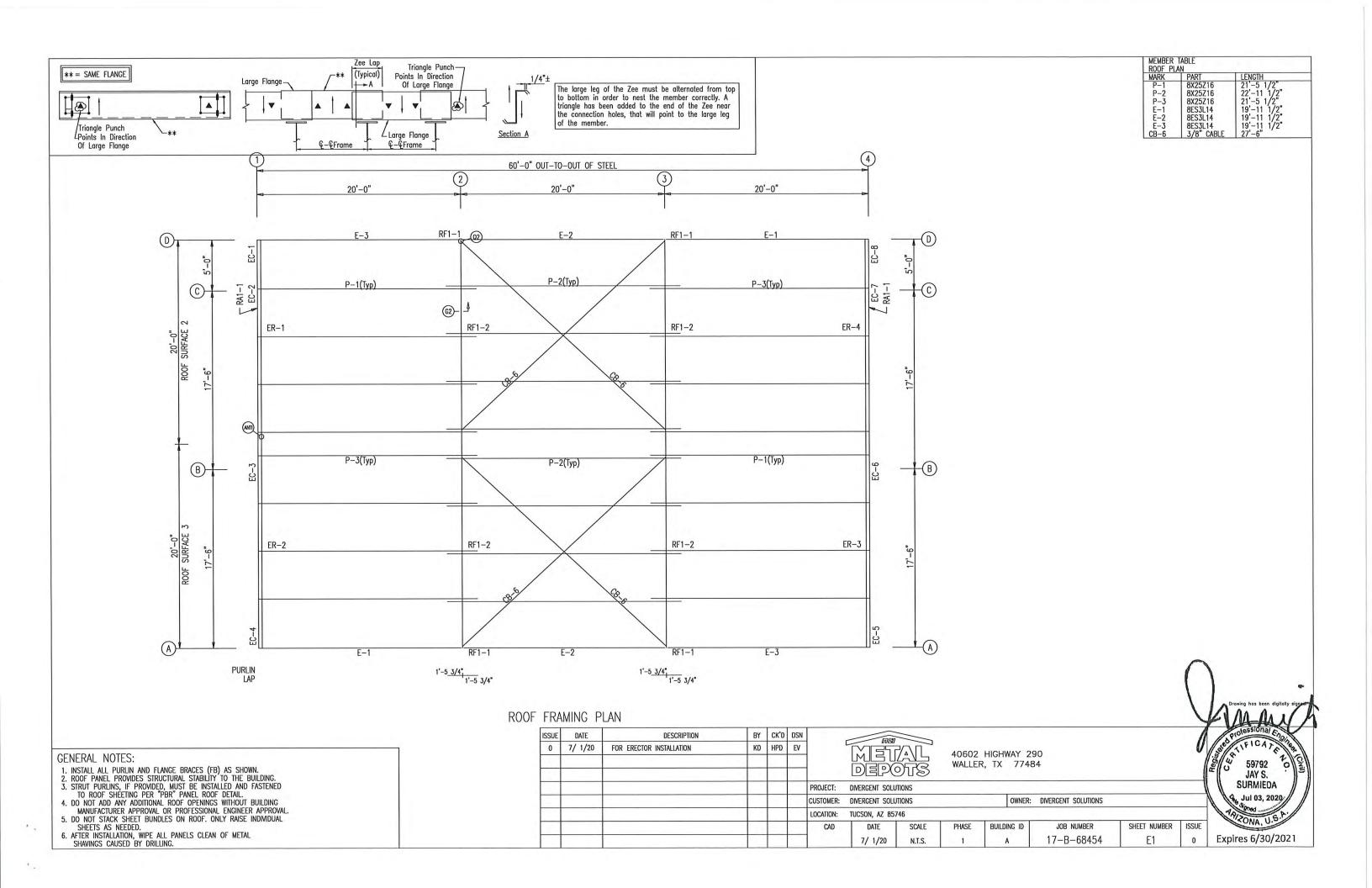
ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES Col Line Anc._Bolt Qty Dia Base_Plate (in) Width Length Grout (in) Frm Line 0.0 7.000 8.000 0.250 2 0.625 8 000 0.250 0.0 0.625 7 000 2 0.625 7.000 8.000 0.250 0.0 0.625 7.000 8.000 0.250 0.0 0.625 7.000 8.000 0.250 0.0 0.625 7.000 10.00 0.250 0.0 0.625 7.000 8.000 0.250 0.0 2 0.625 7.000 8.000 0.0

ANCHOR BOLT SUMMARY

Proj (in) Dia (in) Qty Туре Locate 5/8" 5/8" 3/4" F1554 F1554 F1554 2.00 2.00 2.50 Jamb Endwall Frame

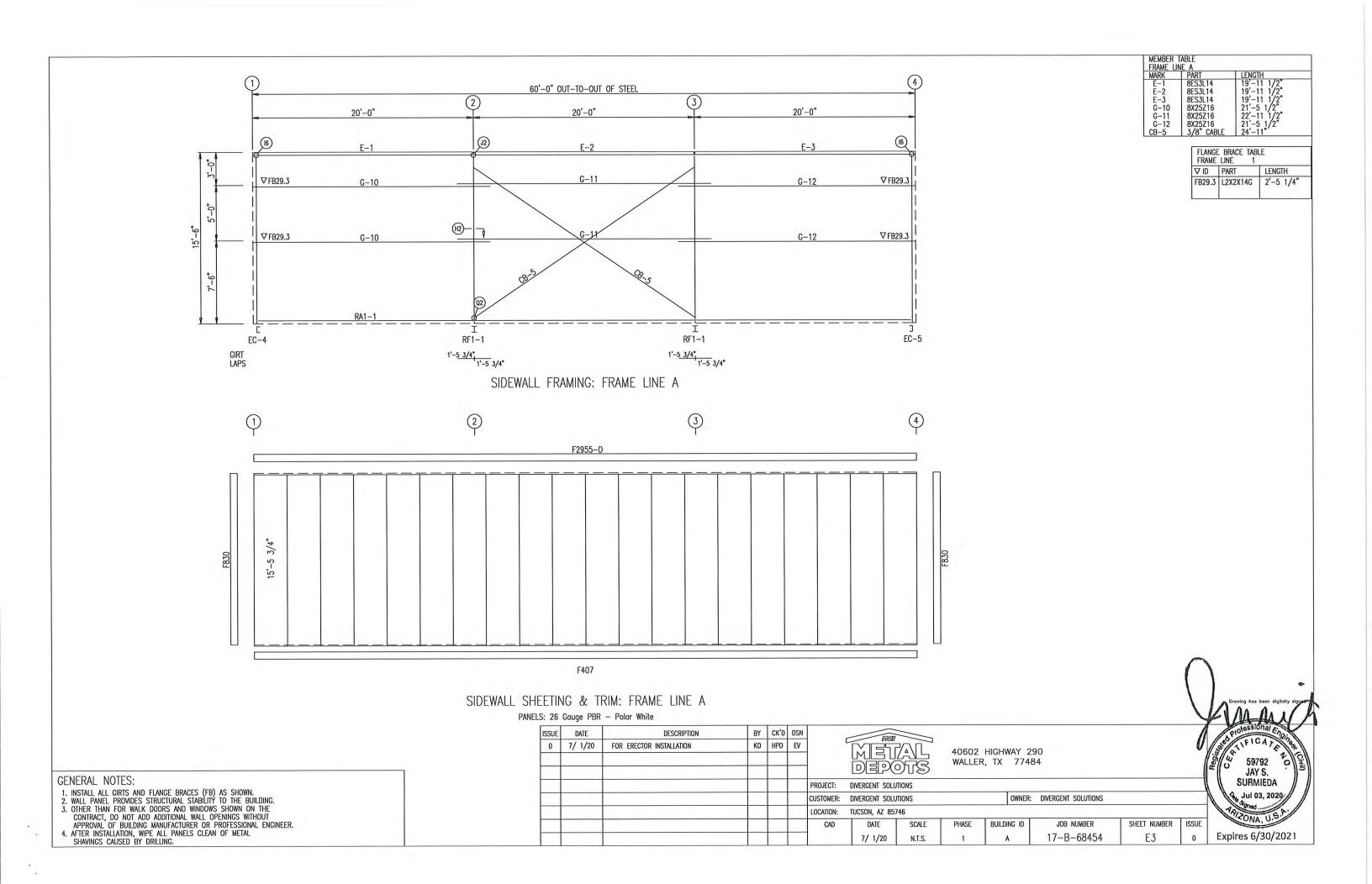


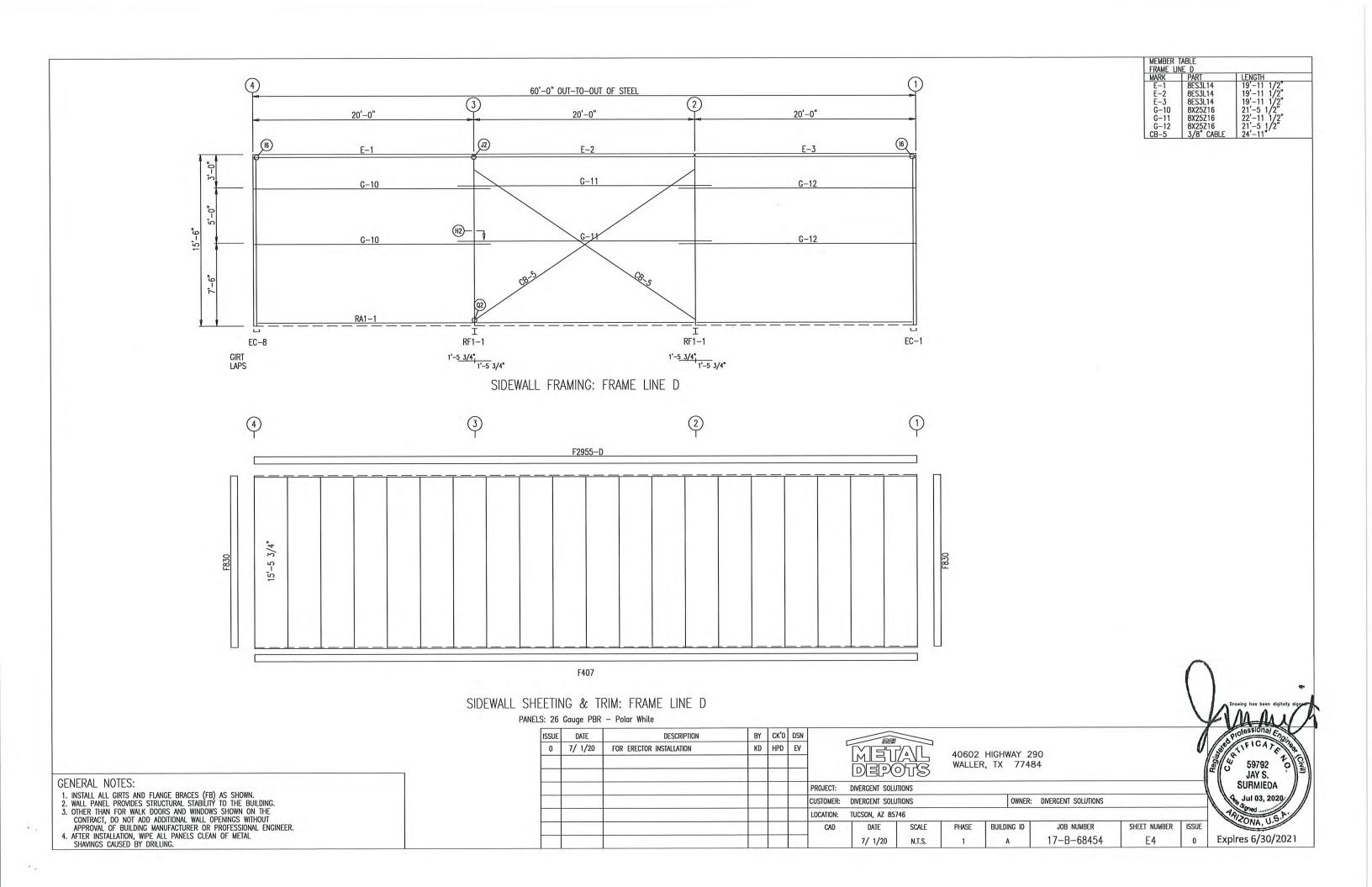


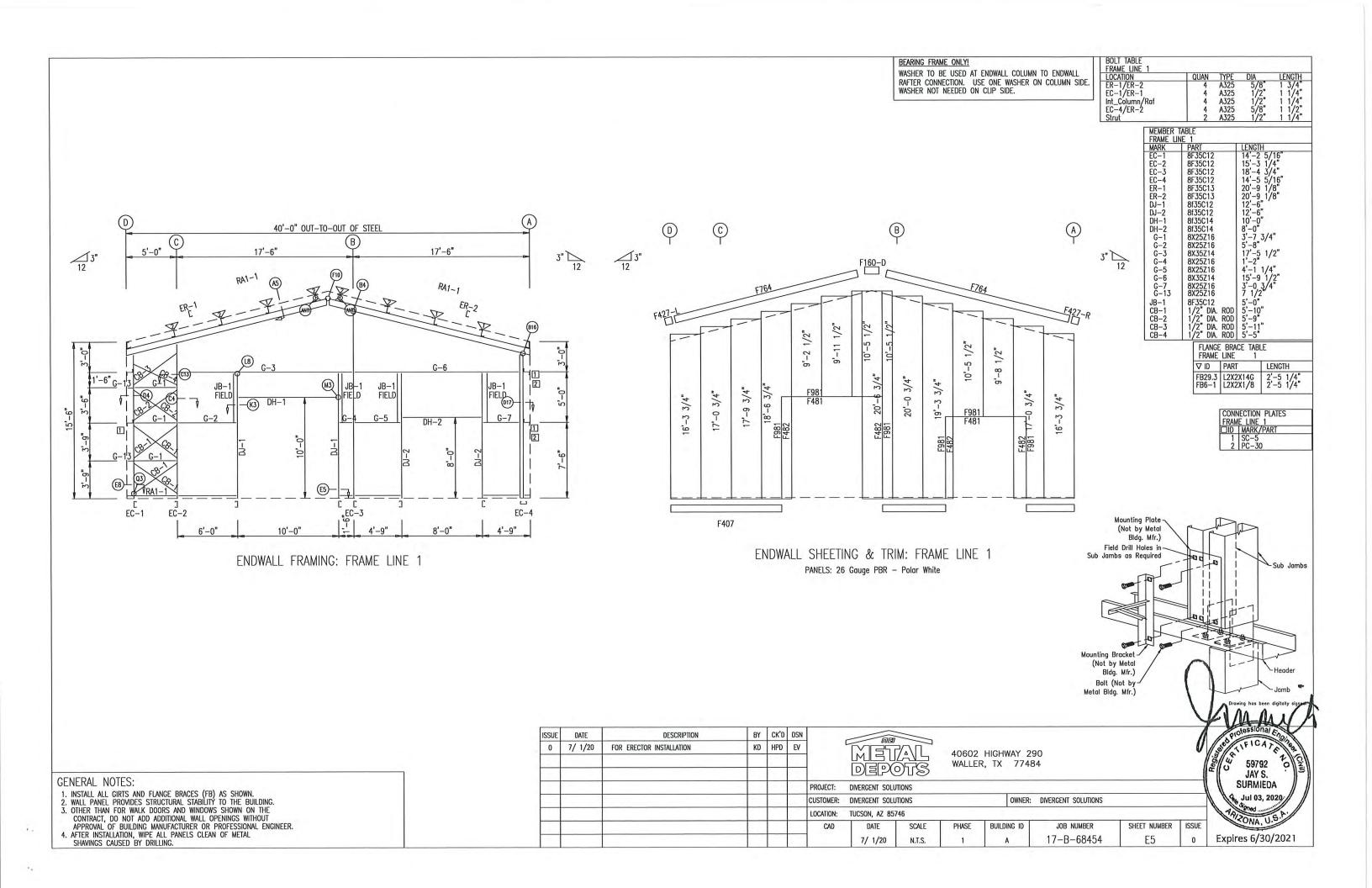


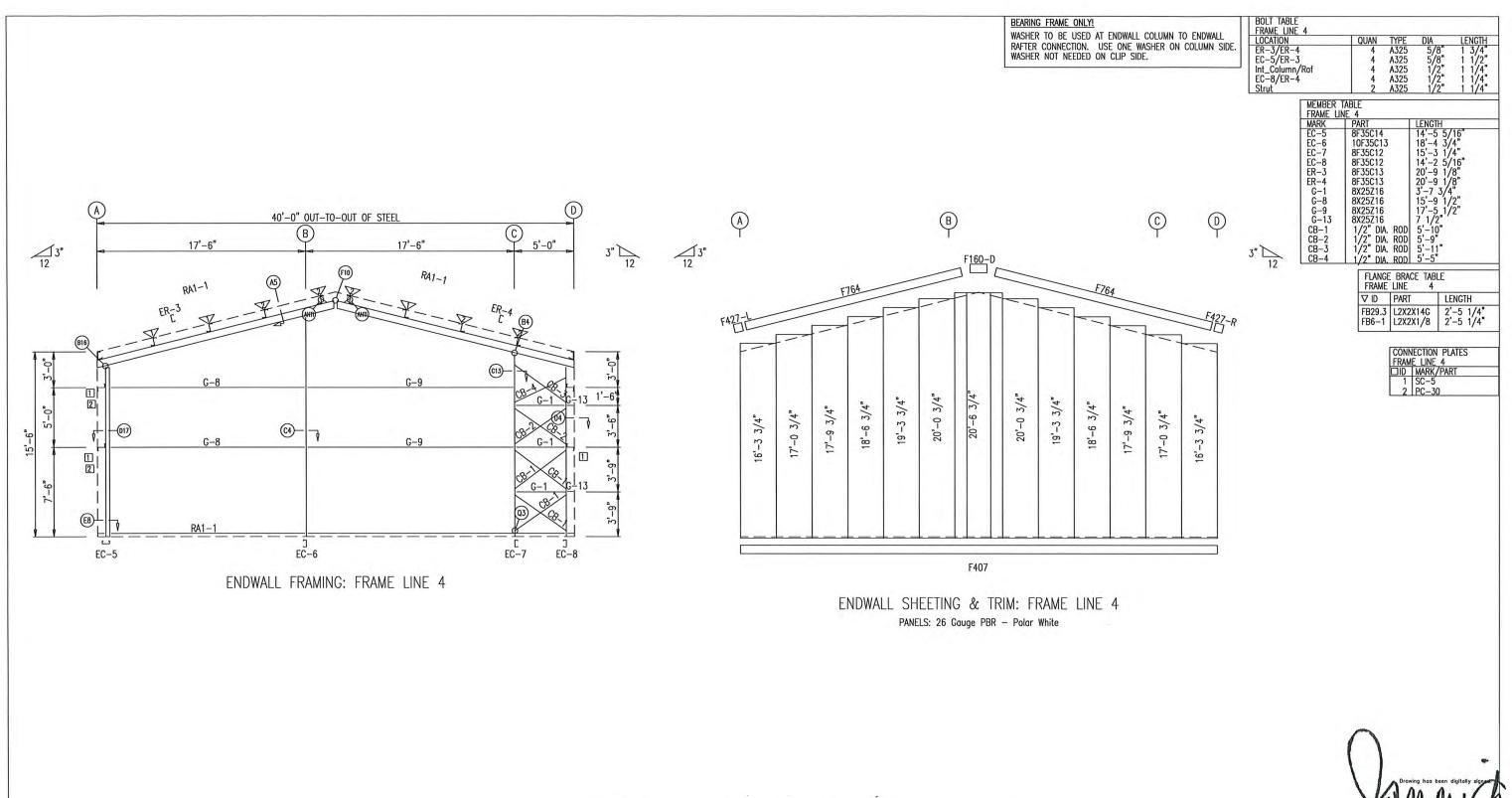
PBR ROOF SHEETING NOTE: PBR ROOF PANELS ARE TO BE FIELD CUT IF THE PANELS EXTEND OUTSIDE OF THE ROOF PLANE, PANELS ARE NOT TO BE BACK LAPPED. (1) 60'-0" OUT-TO-OUT OF STEEL (2) 20'-0" 20'-0" 20'-0" WPR04006/DET 11 GPR03004/DET 10 /(TYP. 4 CORNERS) (C)-WPR05002/DET 10 WPR05002/DET 12 19,-10 GPR05001/DET 10 F52 D HB GPR06003/DET 9 WPR05002/DET 10 19'-10 WPR05002/DET 12 A GPR03004/DET 10 ROOF SHEETING PLAN PANELS: 26 Gauge PBR - Polar White DESCRIPTION BY CK'D DSN ISSUE DATE KD HPD EV 7/ 1/20 FOR ERECTOR INSTALLATION 40602 HIGHWAY 290 GENERAL NOTES: 59792 WALLER, TX 77484 INSTALL ALL PURLIN AND FLANGE BRACES (FB) AS SHOWN.
 ROOF PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
 STRUT PURLINS, IF PROVIDED, MUST BE INSTALLED AND FASTENED TO ROOF SHEETING PER "PBR" PANEL ROOF DETAIL.

 DO NOT ADD ANY ADDITIONAL ROOF OPENINGS WITHOUT BUILDING. DEPOTS JAY S. SURMIEDA DIVERGENT SOLUTIONS PROJECT: Jul 03, 2020 CUSTOMER: DIVERGENT SOLUTIONS OWNER: DIVERGENT SOLUTIONS MANUFACTURER APPROVAL OR PROFESSIONAL ENGINEER APPROVAL.
 DO NOT STACK SHEET BUNDLES ON ROOF. ONLY RAISE INDIVIDUAL SHEETS AS NEEDED.
 AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING. TUCSON, AZ 85746 LOCATION: SHEET NUMBER ISSUE SCALE PHASE BUILDING ID JOB NUMBER Expires 6/30/2021 17-B-68454 E2 7/ 1/20 N.T.S.









GENERAL NOTES:

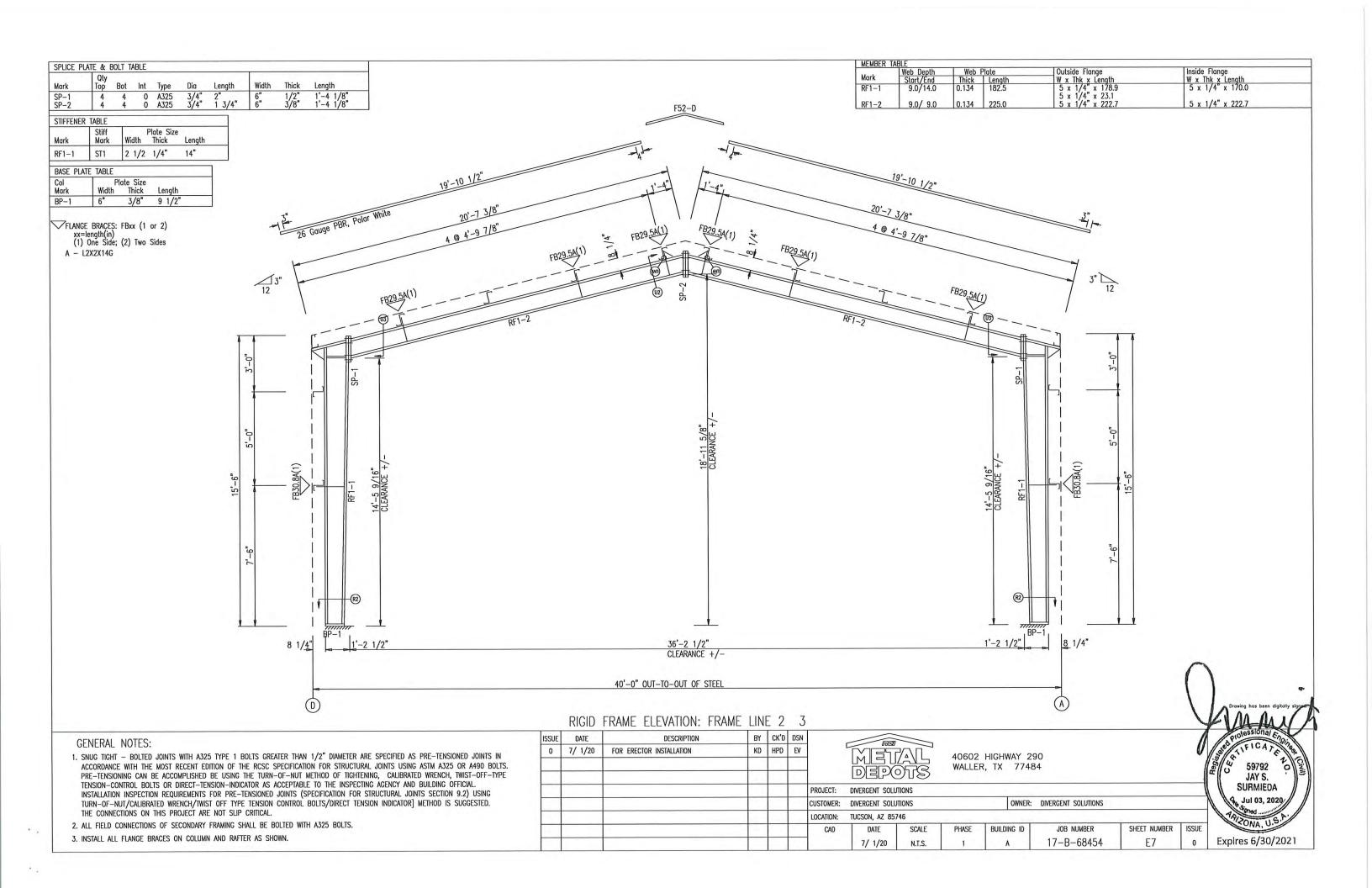
1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.

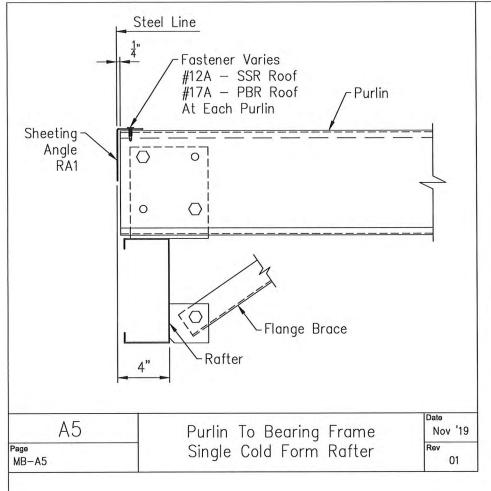
2.	WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3.	OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE
	CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT
	APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
4.	AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL
	SHAVINGS CAUSED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

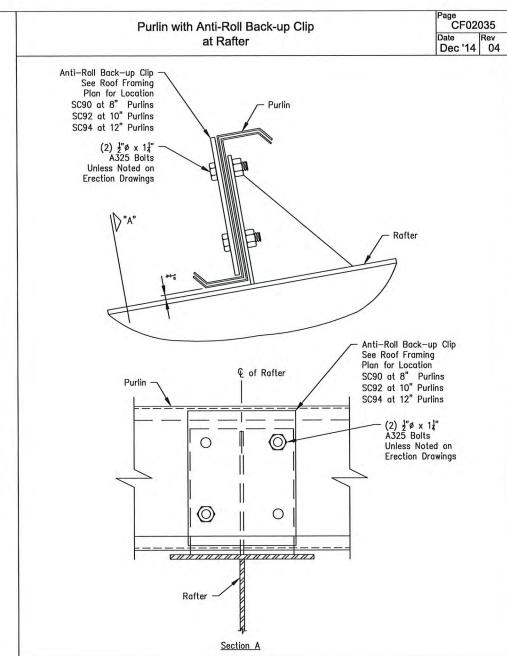
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ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN								7	A
0	7/ 1/20	FOR ERECTOR INSTALLATION	KD	HPD	EV		[V][=51	2/\[40602	HIGHWAY 2	200		U	
										R, TX 774				1
							DEP	வித	7000000					
						PROJECT:	DIVERGENT SOLU	TIONS						1
7 7						CUSTOMER:	DIVERGENT SOLU	TIONS		OWNER	: DIVERGENT SOLUTIONS			
						LOCATION:	TUCSON, AZ 857	746						
						CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE	
							7/ 1/20	N.T.S.	1	A	17-B-68454	E6	0	

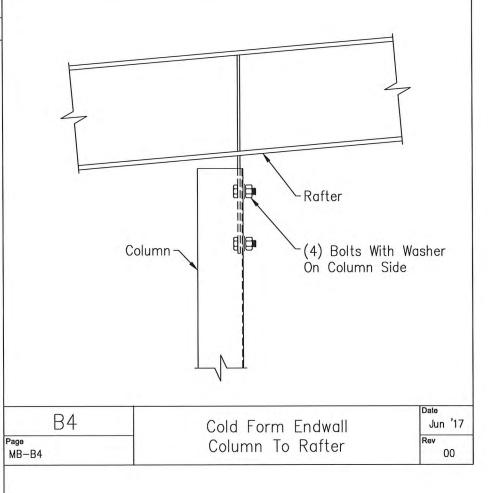
59792 JAY S. SURMIEDA

Expires 6/30/2021

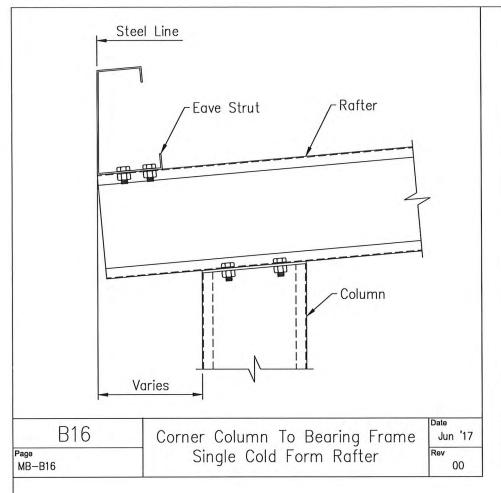


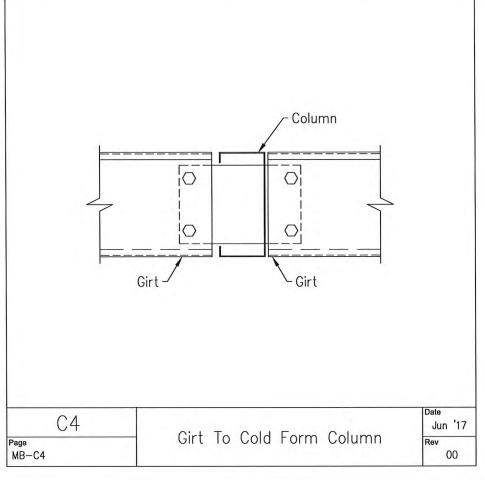


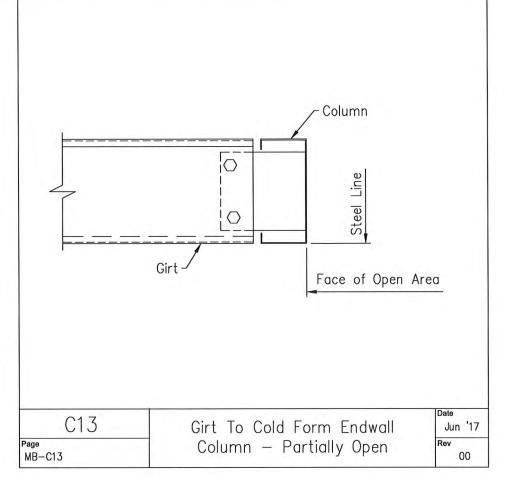


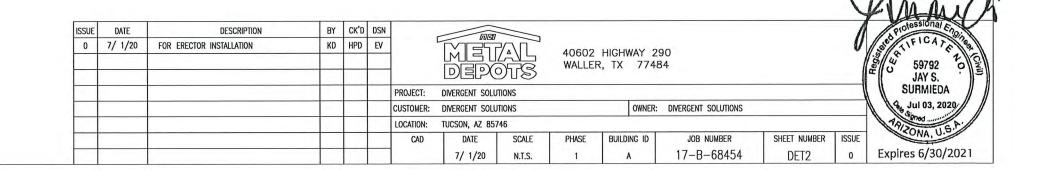


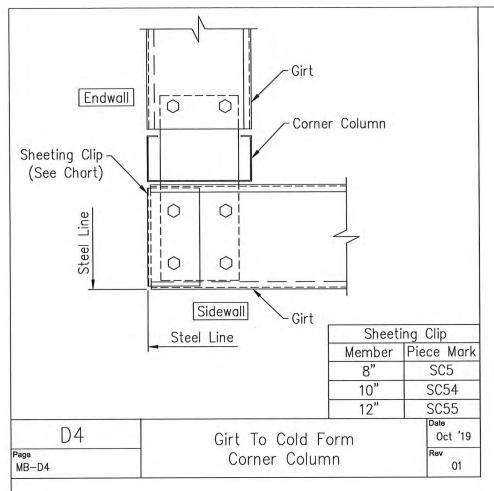
SSUE	DATE .	DESCRIPTION	BY	CK'D	DSN		- I I I I I I I I I I I I I I I I I I I						A	Professional Eng.
0	7/ 1/20	FOR ERECTOR INSTALLATION	KD	HPD	EV			3/\I	40602	HIGHWAY :	200		U	ALFICA TE OS
			- 1							1, TX 774			1	59792 0
								9118						JAY S.
						PROJECT:	DIVERGENT SOLU	TIONS						SURMIEDA
						CUSTOMER:	DIVERGENT SOLU	TIONS		OWNER	R: DIVERGENT SOLUTIONS			Jul 03, 2020
						LOCATION:	TUCSON, AZ 857	746						VA JOHN LISA
						CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE	ONA, O.
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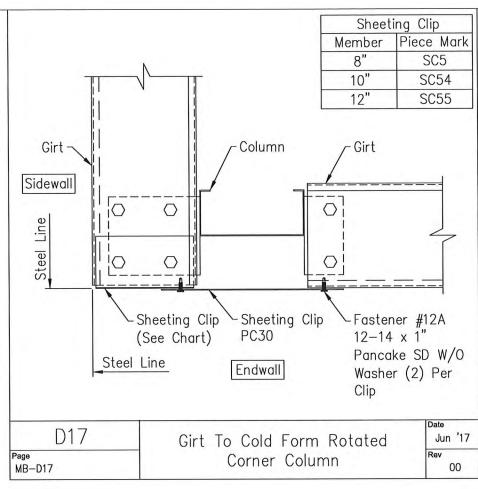


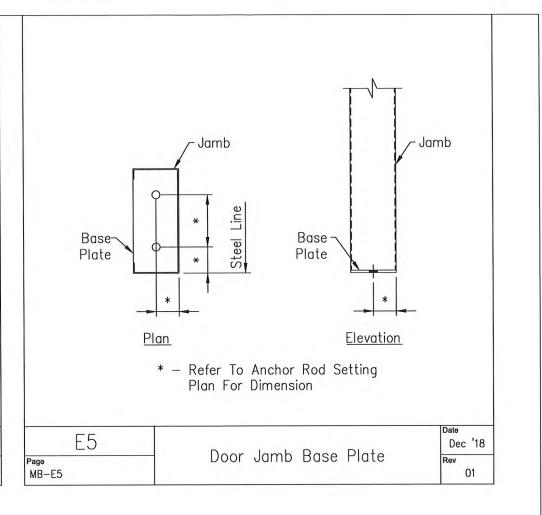


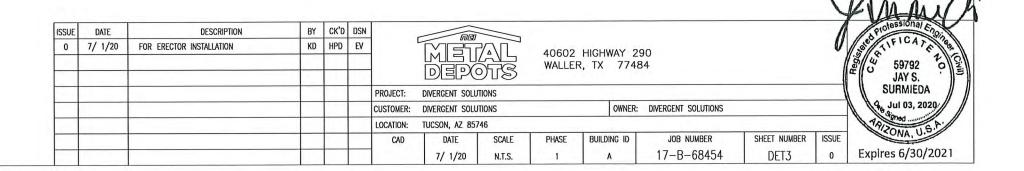


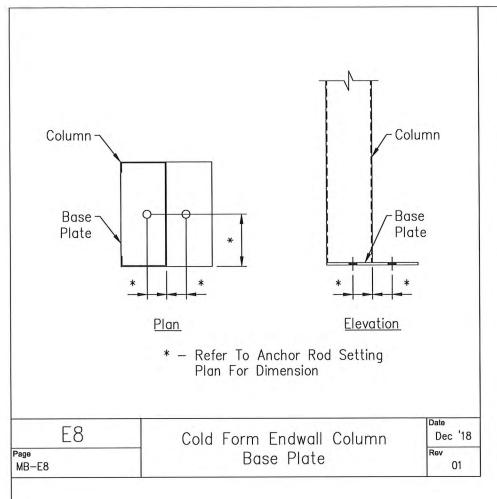


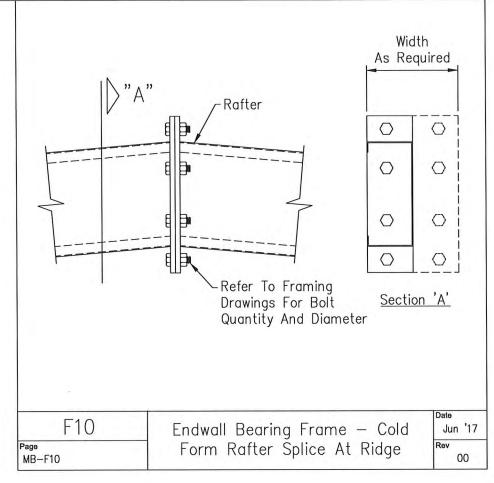


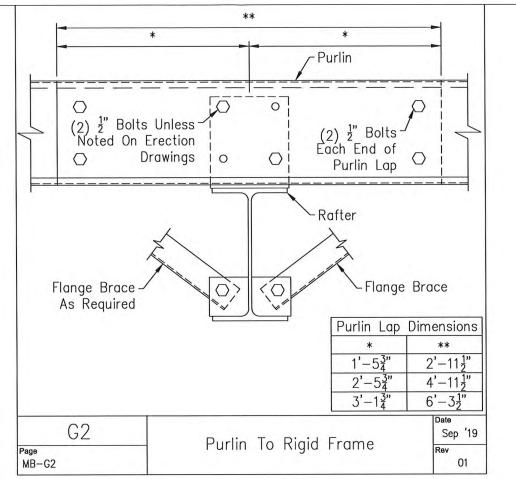


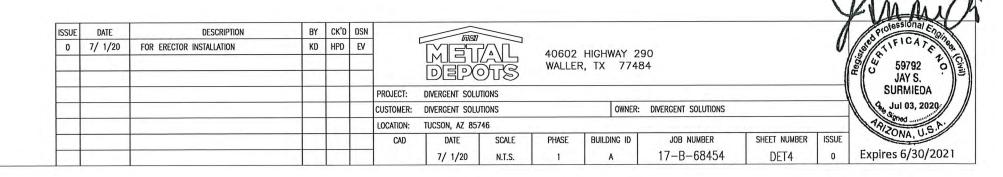


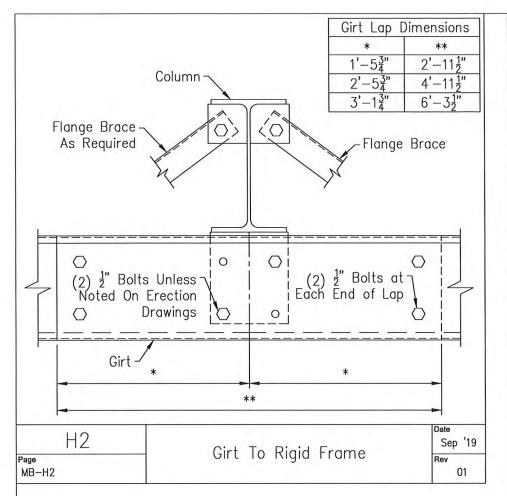


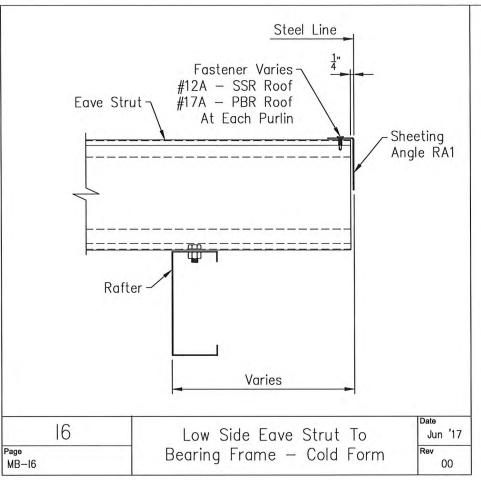


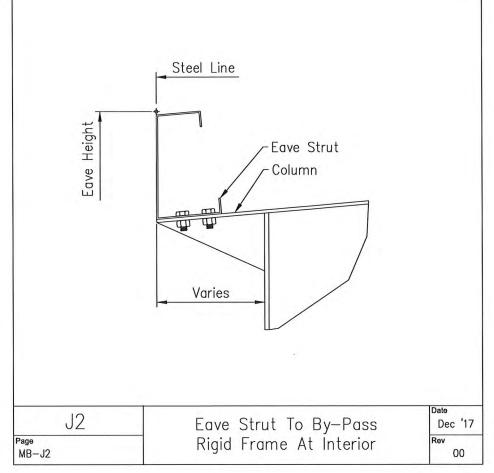


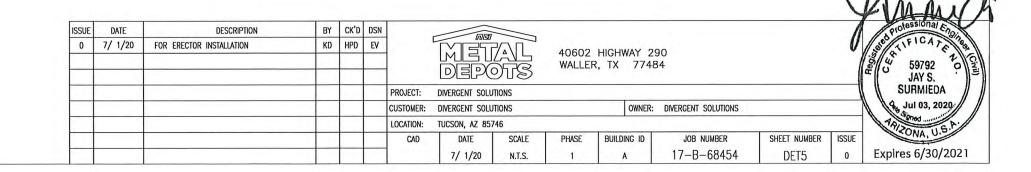


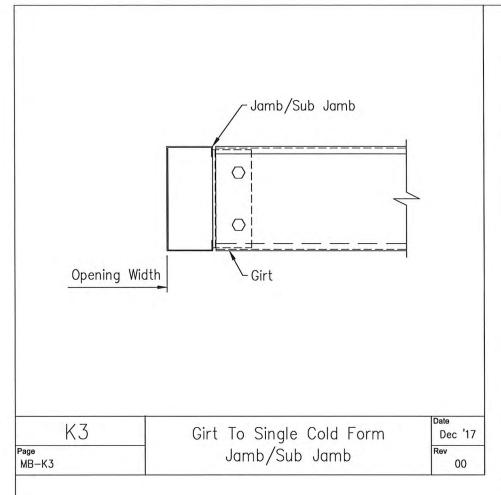


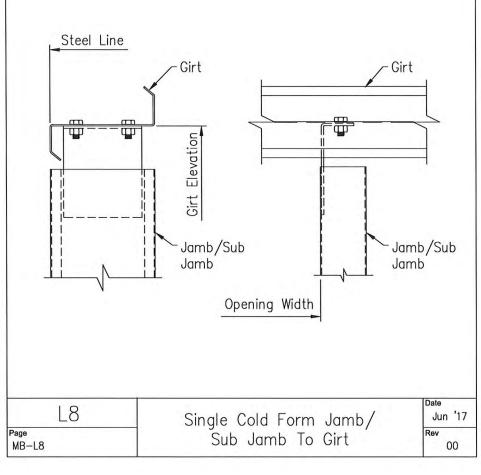


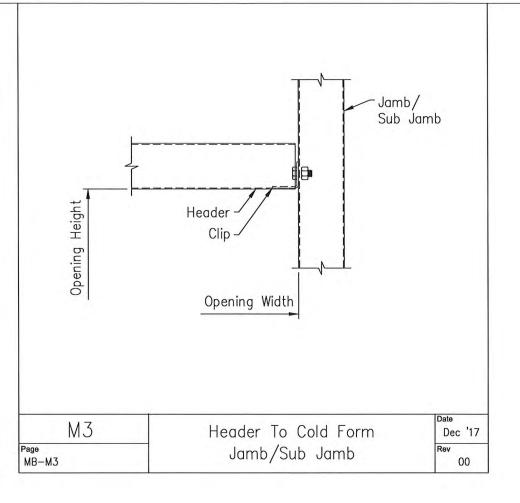


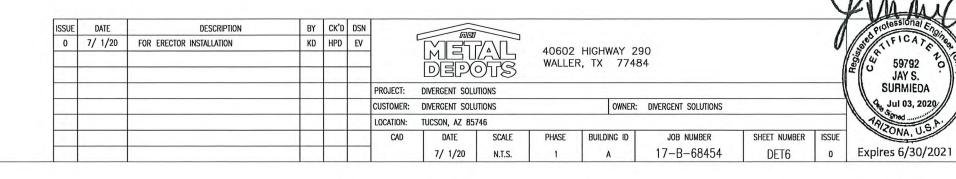


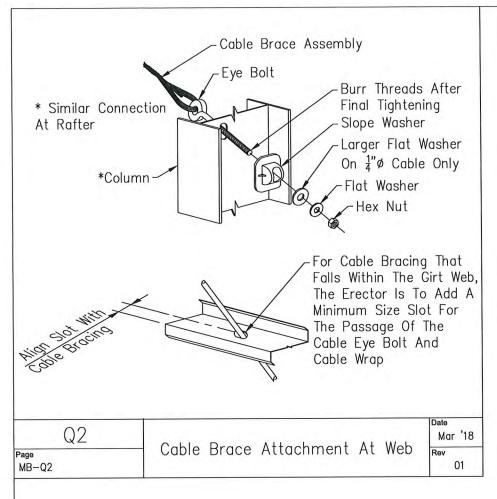


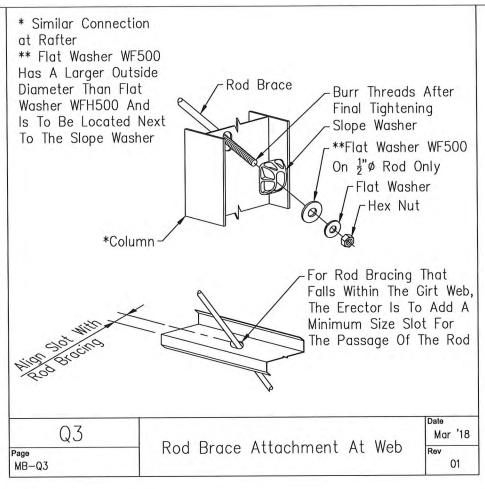


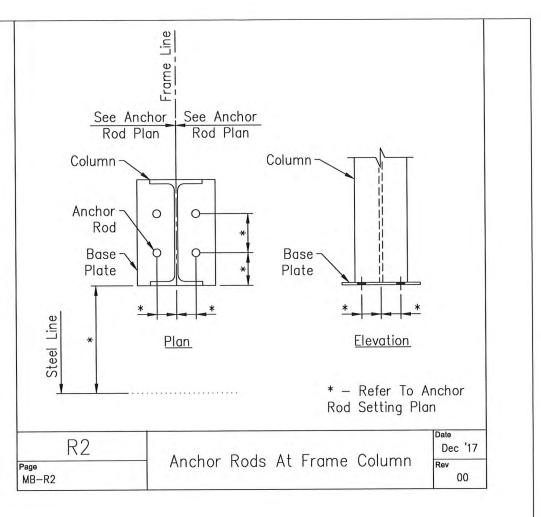


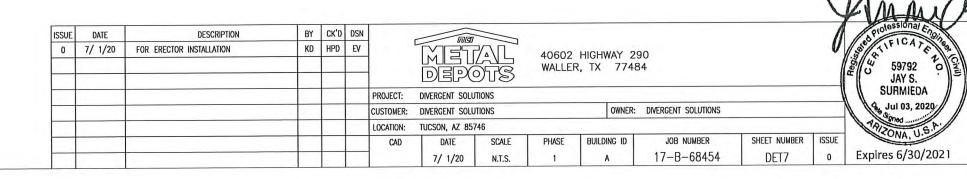


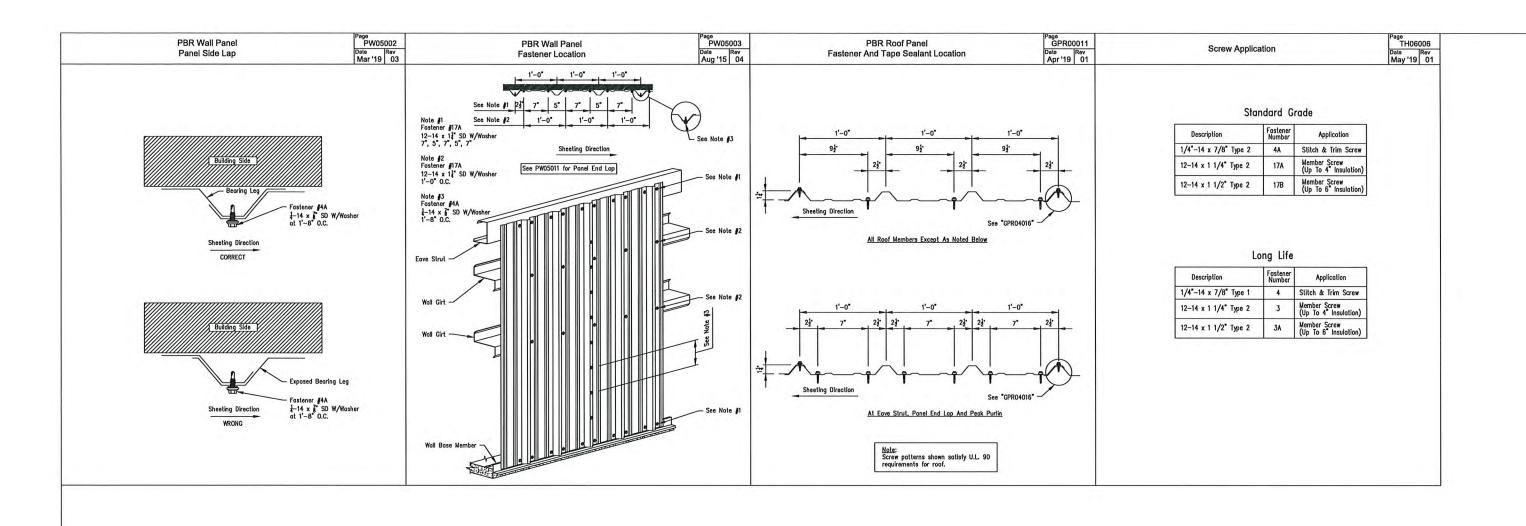












ISSUE DATE DESCRIPTION BY CK'D DSN ng) KD HPD EV 7/ 1/20 FOR ERECTOR INSTALLATION 40602 HIGHWAY 290 WALLER, TX 77484 DEPOTS PROJECT: DIVERGENT SOLUTIONS CUSTOMER: DIVERGENT SOLUTIONS OWNER: DIVERGENT SOLUTIONS LOCATION: TUCSON, AZ 85746 SHEET NUMBER ISSUE CAD DATE SCALE PHASE BUILDING ID JOB NUMBER 17-B-68454 7/ 1/20 DET8 0 N.T.S.

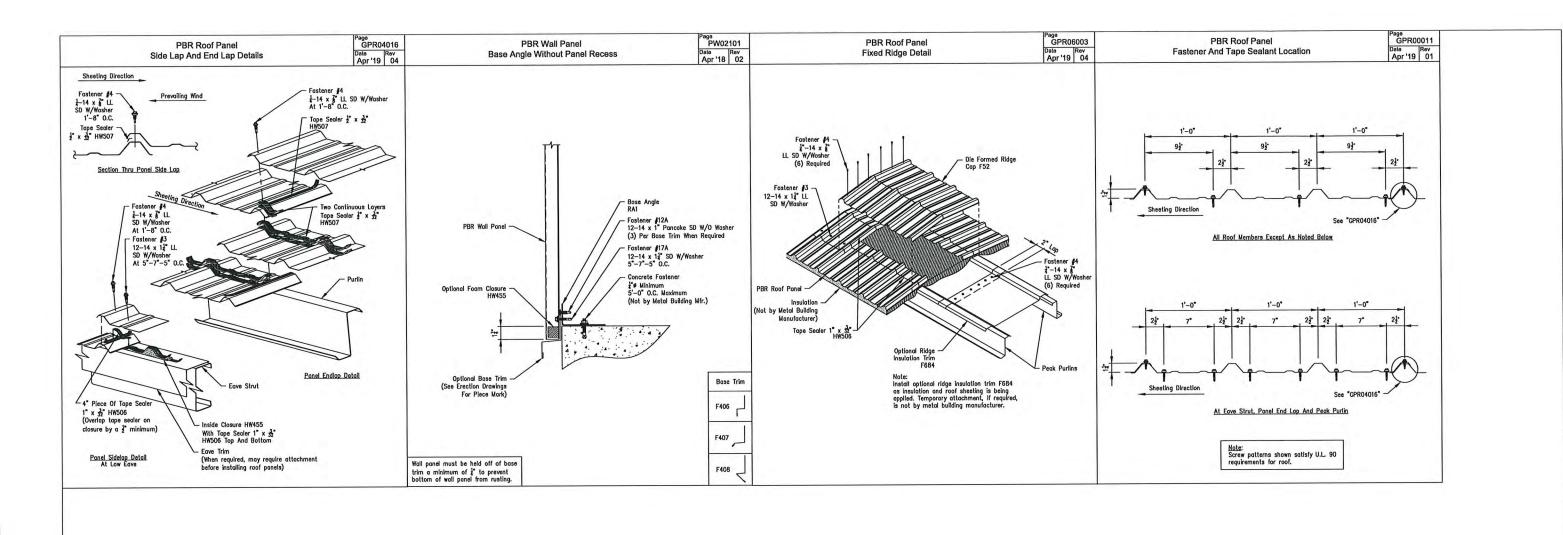
59792 JAY S.

SURMIEDA

NONA, U.S

Expires 6/30/2021

Jul 03, 2020



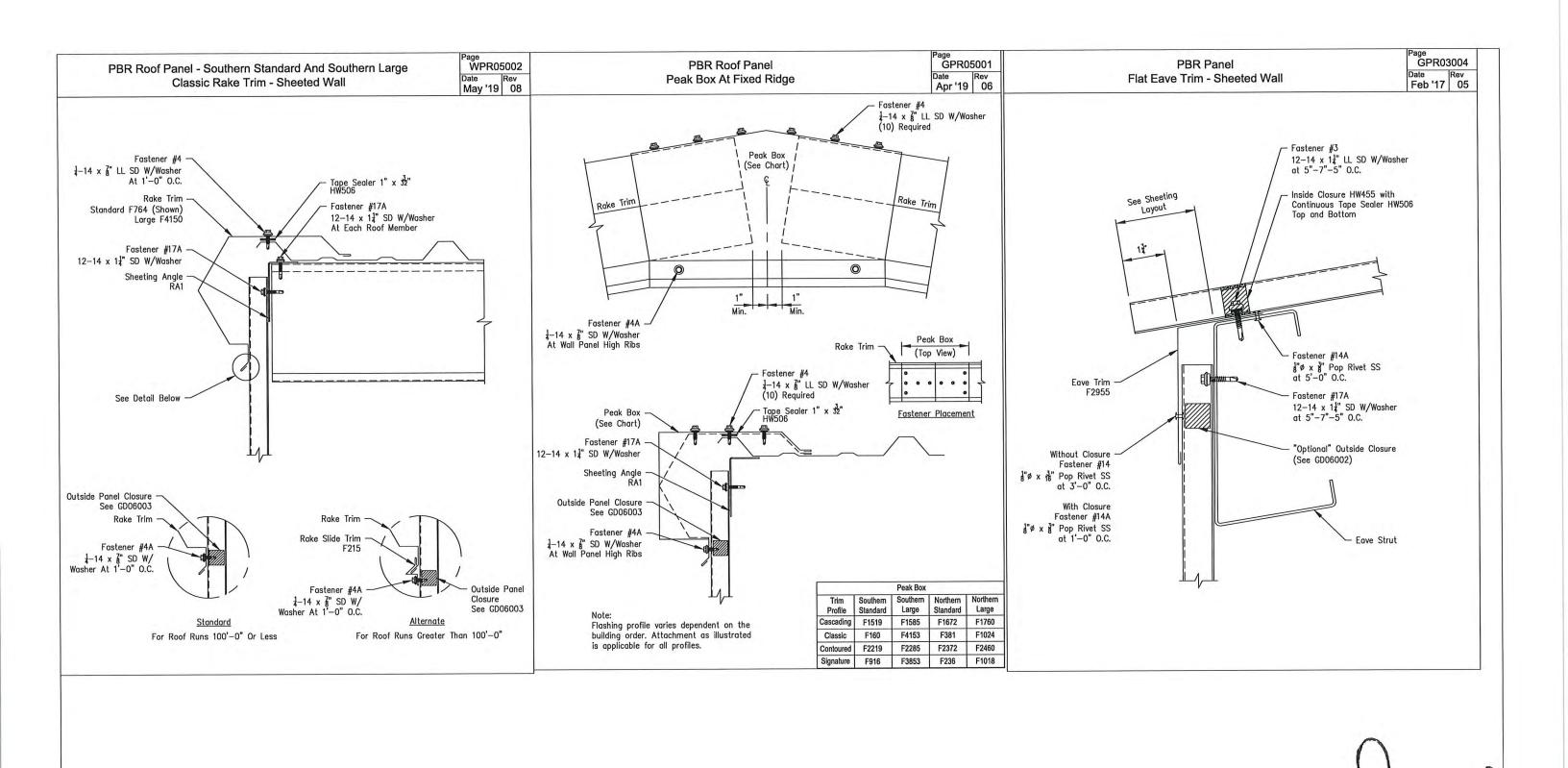
DESCRIPTION BY CK'D DSN ISSUE DATE METAL 7/ 1/20 FOR ERECTOR INSTALLATION KD HPD EV 40602 HIGHWAY 290 WALLER, TX 77484 DEPOTS PROJECT: DIVERGENT SOLUTIONS CUSTOMER: DIVERGENT SOLUTIONS OWNER: DIVERGENT SOLUTIONS LOCATION: TUCSON, AZ 85746 SHEET NUMBER ISSUE CAD DATE SCALE PHASE BUILDING ID JOB NUMBER 17-B-68454 DET9 0 7/ 1/20 N.T.S.

JAY S. SURMIEDA

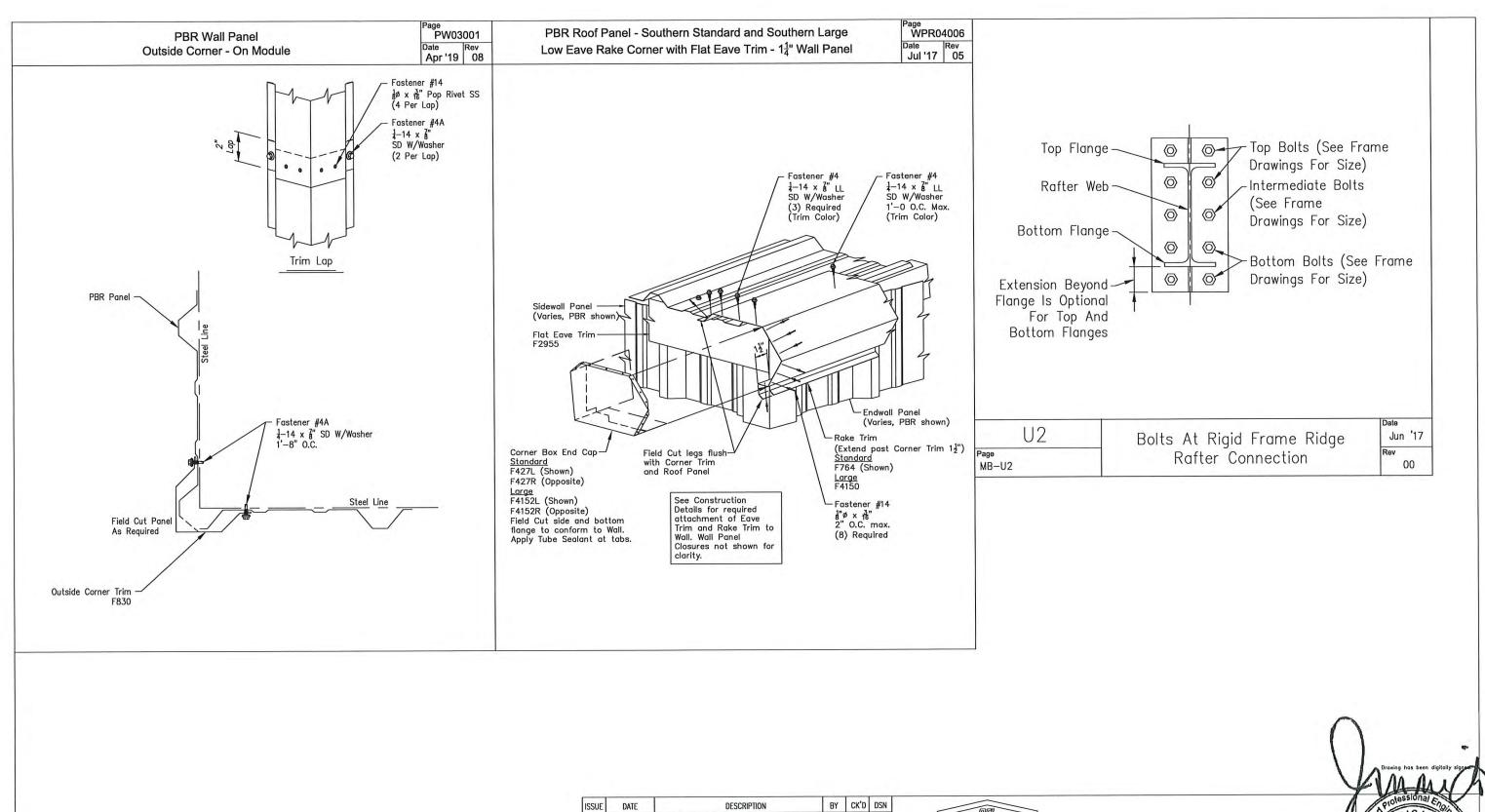
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FOR ERECTOR INSTALLATION

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KD HPD EV

PROJECT:

CUSTOMER:

LOCATION:

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DIVERGENT SOLUTIONS

DIVERGENT SOLUTIONS

TUCSON, AZ 85746

SCALE

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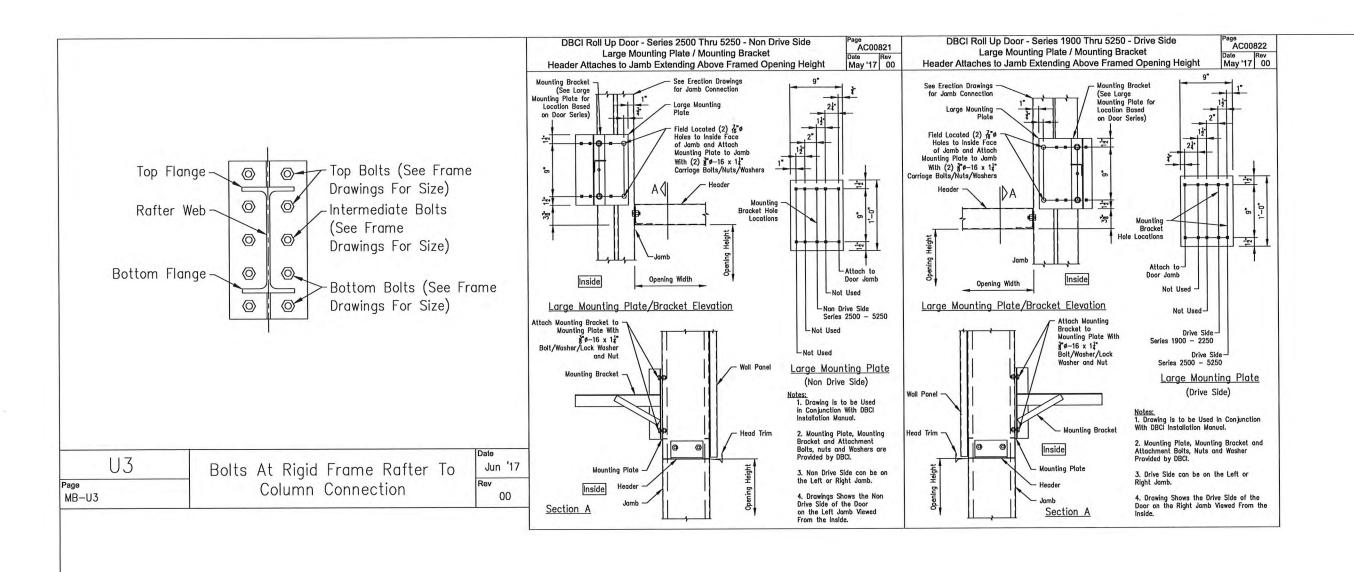
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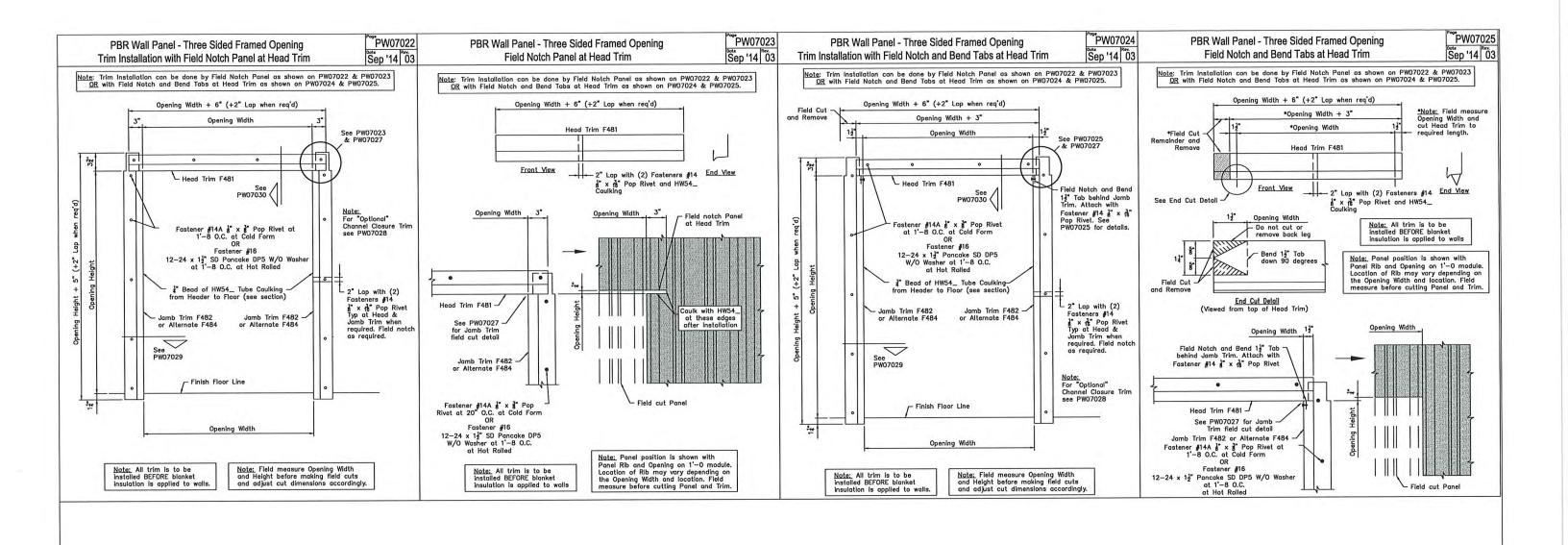
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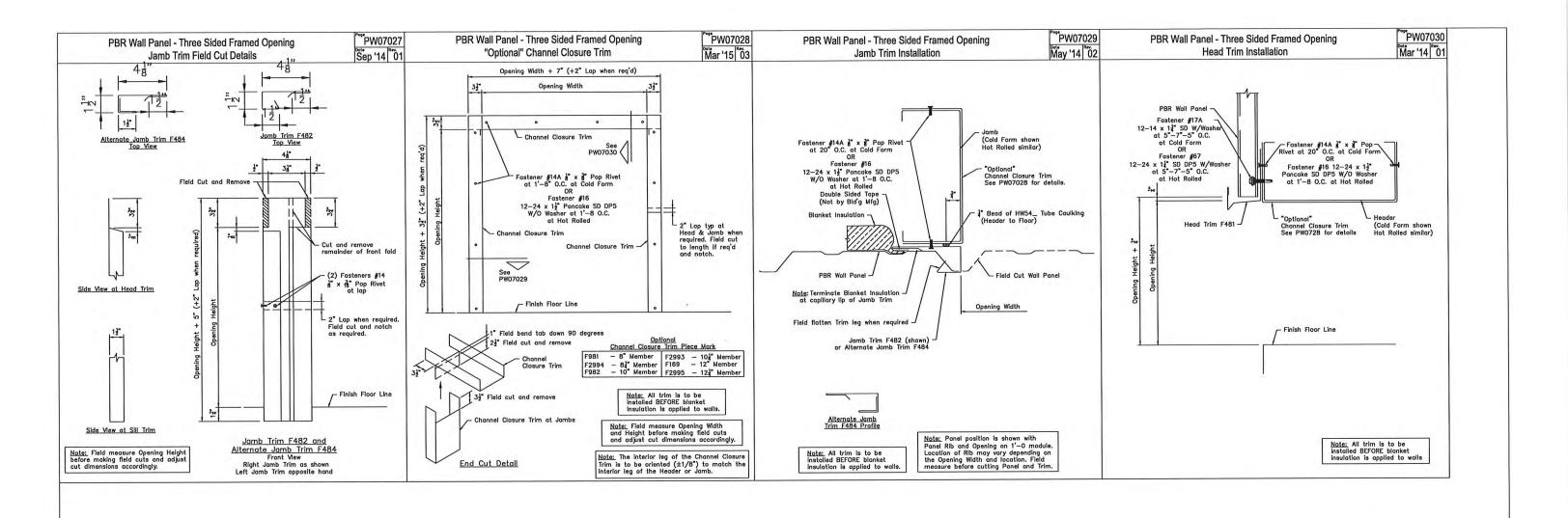
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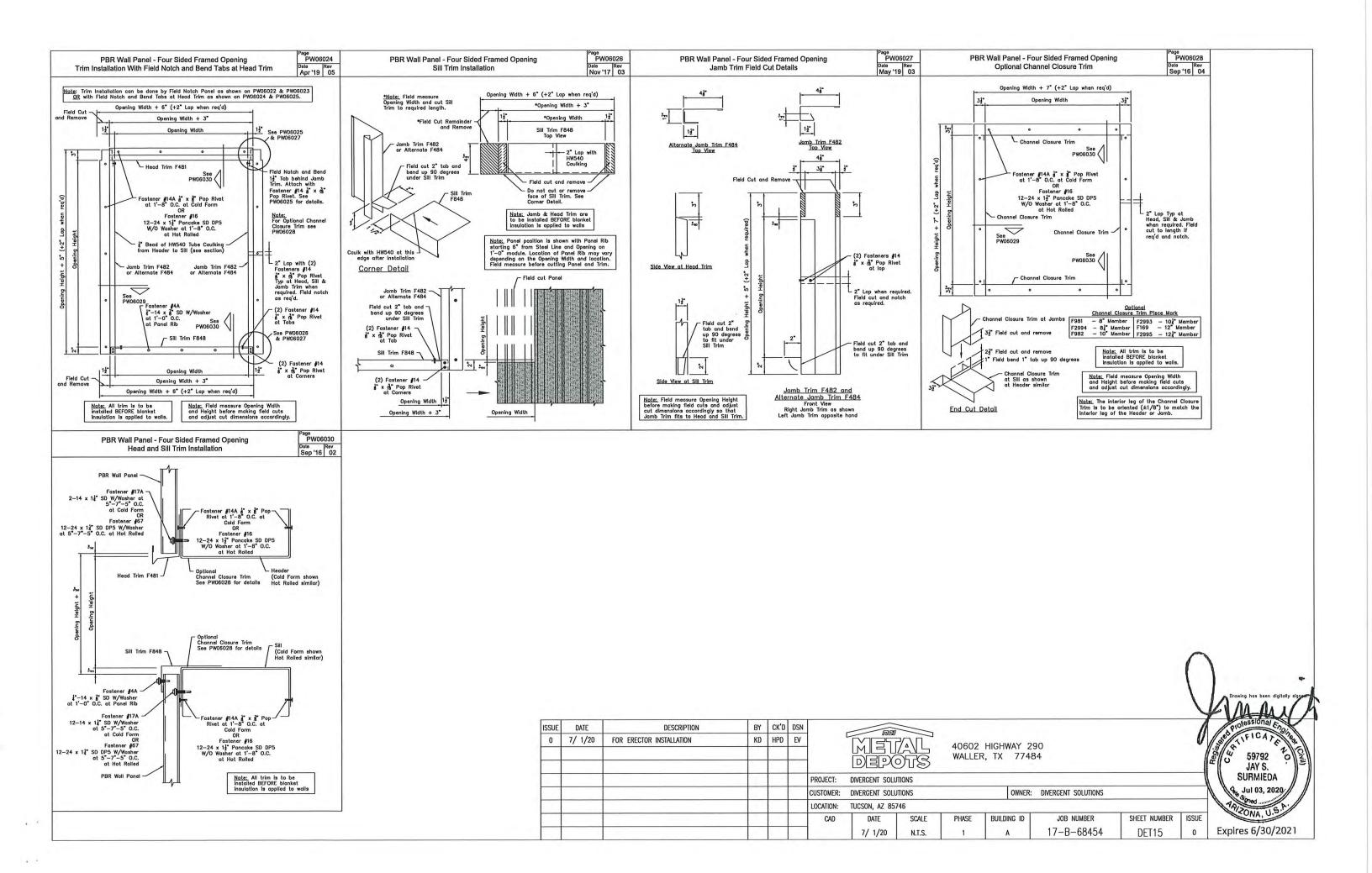
STANDARD FRAMED OPENING DETAILS (PBR WALL PANEL)

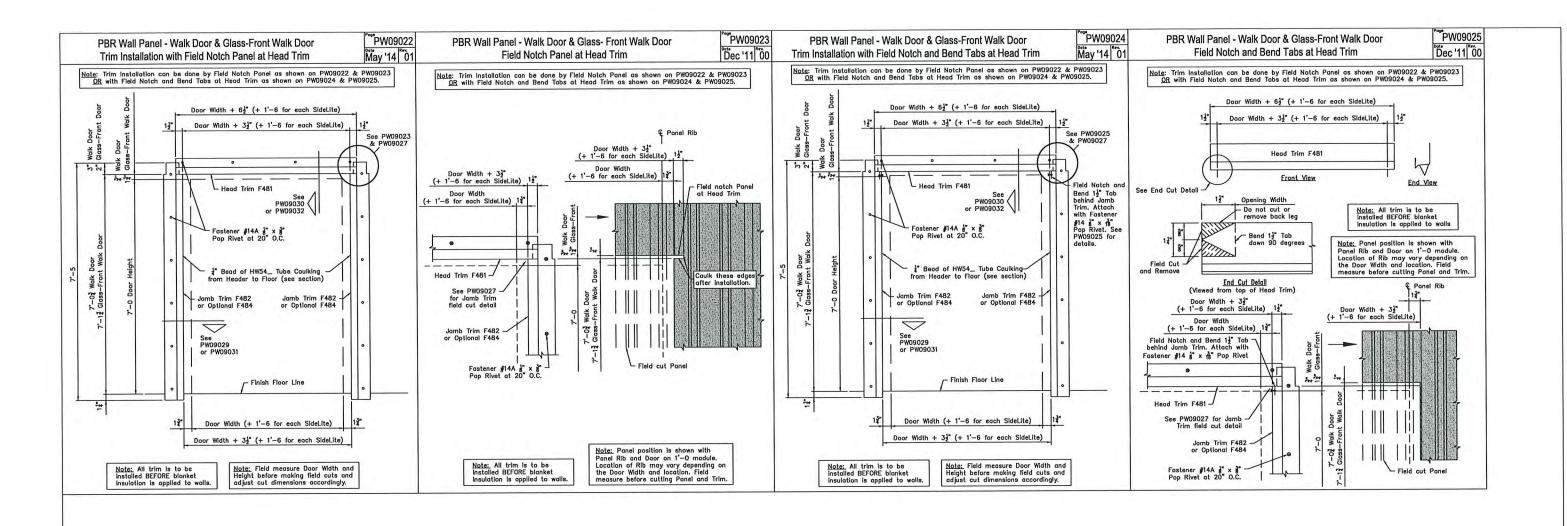
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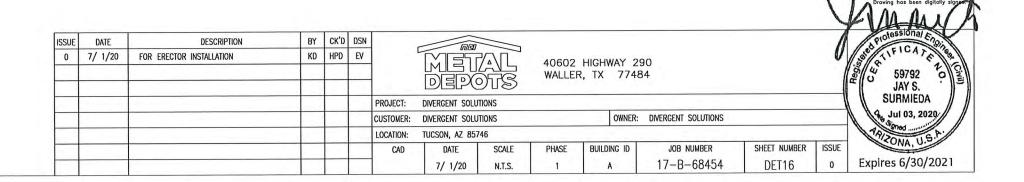
STANDARD FRAMED OPENING DETAILS (PBR WALL PANEL)
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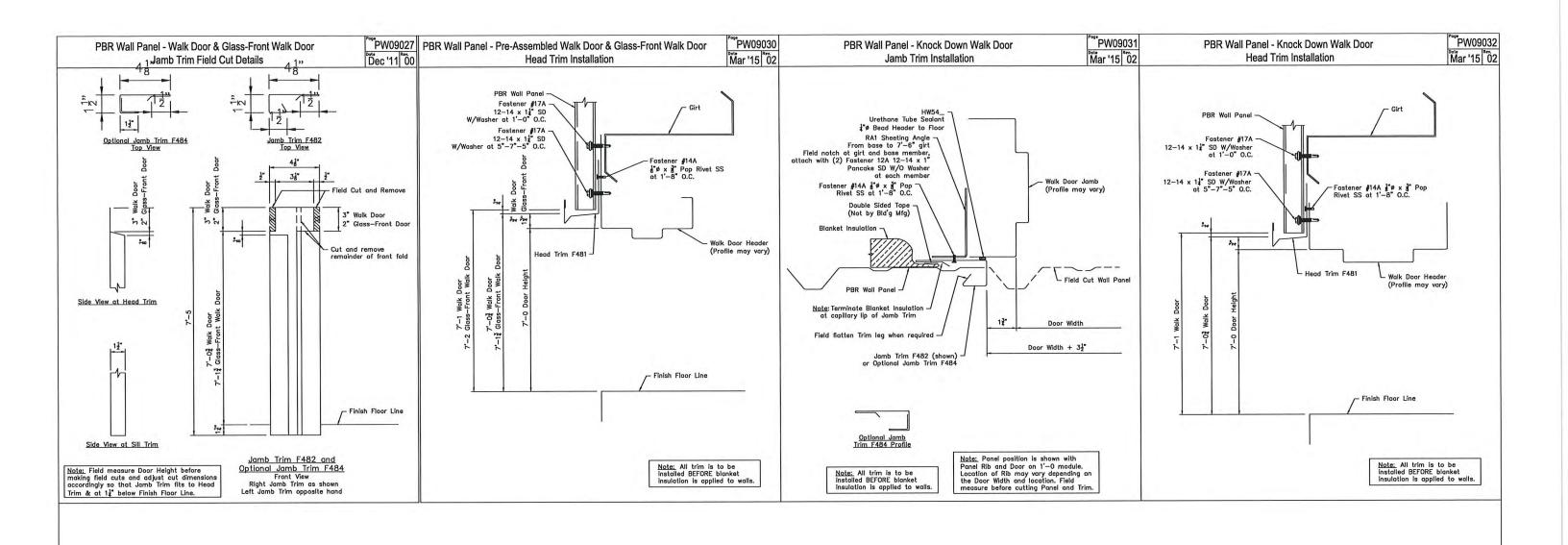
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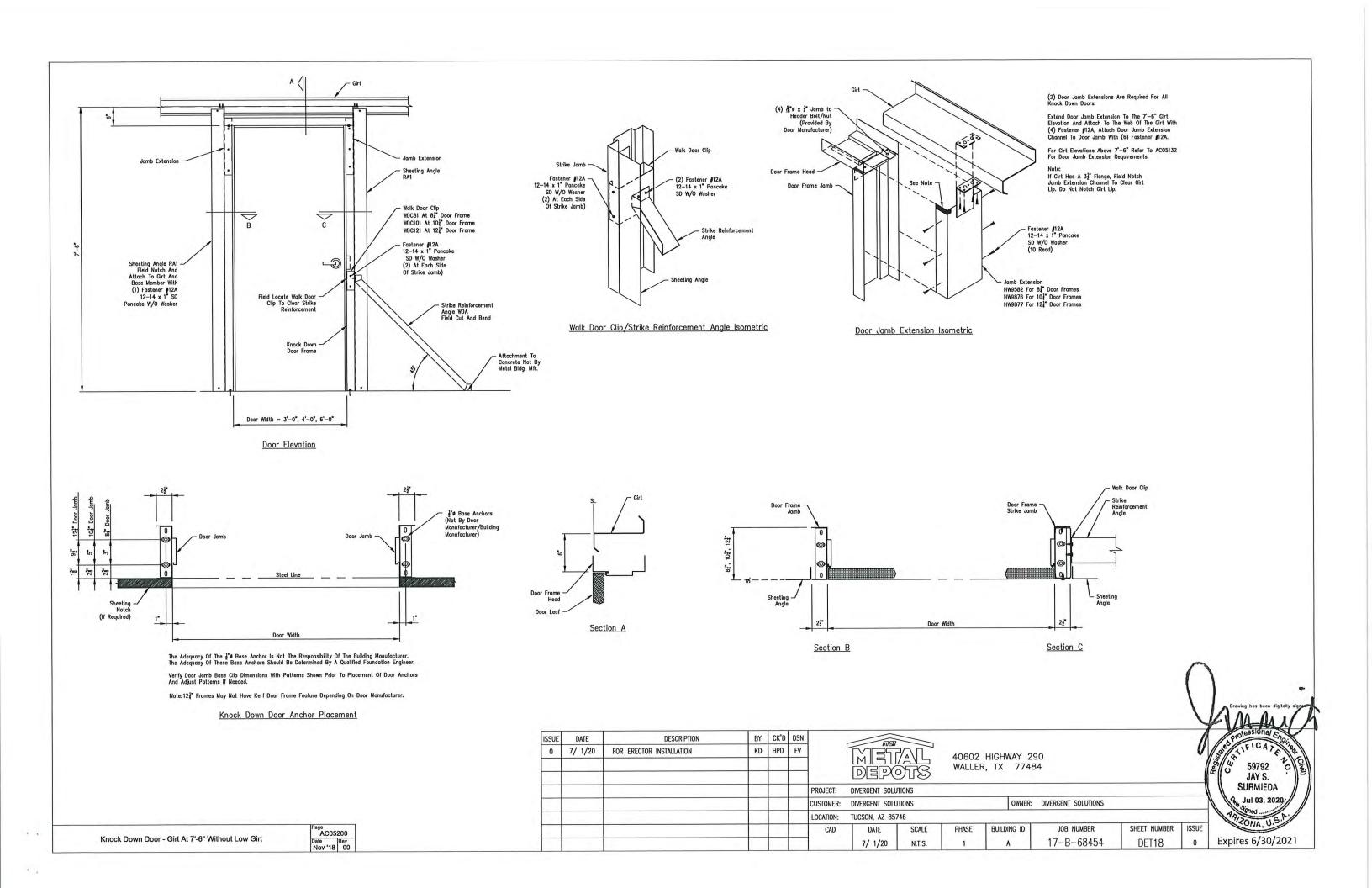
STANDARD WALKDOOR DETAILS (PBR WALL PANEL)





STANDARD WALKDOOR DETAILS (PBR WALL PANEL)
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Field Service Procedures

In Order To Give You Prompt Services And Keep Problems To A Minimum,
Please Handle Any Shortages Or Back Charges In The Following Manner:

1. Carefully Check Your Packing List While Unloading,
2. Mark Any Items Which Appear To Be Missing And Notify The Field
Service Department At The Number Shown In The Title Block As Soon

NITIAL CLAM:
In the Event Of An Error, The Customer Must Promptly Make A Written Or Verbol
"initial Claim" to The Manufacturer For The Correction Of Design, Drafting, Bill Of Materials Or Fabrication Error.

- Materials Or Fabrication Error.

 The "Initial Claim" Includes:

 1. Description Of The Nature And Extent Of The Errors, Including Quantities.

 2. Description Of The Nature And Extent Of Proposed Corrective Work, Including Estimated Man-Hours.

 3. Materials To Be Purchased From Other Than the Manufacturer, Including
- Estimated Quantities and Cost.

 4. Maximum Total Cost of Proposed Corrective Work And Materials To Be Purchased From Other Than The Manufacturer.

SHORT MATERIALS:
Immediately Upon Delivery Of Materials, Quantities Are To Be Verified
By The Customer Against Quantities That Are Billed On The Shipping Documents,
Neither The Manufacturer Nor The Carrier Is Responsible For Material Shortages
Against The Quantities Billed On The Shipping Documents If Such Shortages Are
Not Noted On The Shipping Documents When The Material Is Delivered And
Acknowledged By The Carrier's Agent. If The Carrier Is The Manufacturer, Claims
For Shortages Are To Be Made By The Customer To The Common Carrier. If The
Material Quantities Received Are Correct According To The Quantities Billed On
The Shipping Documents, But Are Less Than The Quantities Ordered Or The
Quantities That Are Necessary To Complete The Metal Bulding According To The
Order Documents, Claim Is To Be Made To The Manufacturer.

DAMACED OR DEFECTIVE MATERIAL:

Damaged Or Defective Moterial, Regordess Of The Degree Of Damage, Must be Noted On The Shipping Documents By The Customer And Acknowledged By The Corrier's Agent. The Manufacturer Is Not Responsible For Material Damaged In Unloading Of Packages Or Nested Materials, Including, But Not Limited for Fasteners, Sheet Metol, "C" And "Z" Sections And Covering Panels That Become Wet And/Or Damaged By Water While In The Possession Of Others. Packaged Or Nested Material That Become Wet In Transit Must Be Unpocked, Unstacked And Dried By The Customer If The Corrier is The Manufacturer, The Customer Must Make Claim For Damaged Directly To The Manufacturer. If The Corrier Is A Common Carrier, The Customer Must Make The Claim For Damage To The Common Carrier, The Manufacturer Is Not Llable For Any Claim Whatsoever Including, But Not Limited To Labor Charges of Consequential Damages Resulting From Customer's Use Of Damaged Or Defective Materials That Can Be Detected By Visual Inspection.

EXCESSIVE MATERIAL:
The Manufacturer Reserves The Right To Recover Any Material Delivered In Excess
Of Those Required By The Order Documents.

OIL CANNING IS NOT A CAUSE FOR REJECTION

Types Of Finishes

PAINT AND COATING MAINTENANCE:
Remove Smudge Marks From Bore Colvolume:
Formula 409 Has Proven To Be Somewhat Effective. Lightly Rub With A Clean Cloth And Rinse With Water. Do Not Rub More Than Required To Remove Smudge Marks. No Product Will Remove All Smudge Marks.
Remove Rust Stains:
Soft Scrub Without Bleach Has Proven To be Somewhat Effective. Rub With A Soft Cloth And Rinse With Water. Do Not Rub More Than Required To Remove Stain. No Product Will Completely Remove Rust Stains:
To Touch-Up Scratches In Paint (Not Bare Meta):
Clean Area To Be Pointed With Mid Detergent. Rinse Thoroughly And Dry.
Using A Small Artist's Brush, Lightly Apply A Minimal Amount Of Color Matched Touch-Up Pain Required To Fill/Cover The Scratch. Contact The Building Manufacturer For Assistance With Ordering/Purchasing Touch-Up Paint As Needed.

Authorization For Corrective Work

Normal Erection Operations Include The Correction of Minor Misfits By Amounts Of Reaming, Chipping, Welding Or Cutting And The Drowing Of Elements Into Line Through The Use Of Dritt Prins. Errors That Connot Be Corrected By The Foregoing Means Dr Which Require Mojor Changes In The Member Configuration Should Be Reported Immediately To The Owner And The Fobricator By The Erector, To Enoble Whoever Is Responsible Either To Correct The Error Or Approve The Most Efficient And Economical Method Of Correction To Be Used By Others. (AISC 303-10, Section 7.14). If The Error is The Foult Of The Manufacturer An "Authorization For Corrective Work Must Be Issued in Writing By The Manufacturer To Authorize The Corrective Work At A Cost Not To Exceed The Maximum Total Cost Set Forth. Alternative Corrective Work Other Than That Proposed In The "Initial Claim" May Be Directed By The Manufacturer in The "Authorization Of Corrective Work". Only

FINAL CLAIM:
The "Final Claim" in Writing Must Be Forwarded By The Customer To The Manufacturer Within (10) Days Of The Completion Of The Corrective Work Authorized By The Manufacturer.

- THE "FINAL CLAIM" MUST INCLUDE:

 1. Actual Number Of Man-Hours By Dated Of Direct Labor Use On Corrective Work And Actual Hourly Rate Of Pay.

 2. Taxes And Insurance On Total Actual Direct Labor.
- 3. Other Direct Costs On Actual Direct Lobor.
- Be Purchased From Other Than The Manufacturer, Including Copies Of

5. Total Actual Direct Cost Of Corrective Work (Sum Of 1, 2, 3, And 4). The Final Claims Are Credited To The Customer By The Manufacturer In The Amount Not To Exceed The Lesser Of The Maximum Total Cost Set Forth In The "Authorization For Corrective Work" Or The Total Direct Cost Of

** IMPORTANT NOTE **

Cost Of Equipment (Rental Or Depreciation), Small Tools, Supervision, Overhead And Profit Are Not Subjected To Claims.

SHIPMENT ARRIVAL TIME:
Every Effort Will Be Made To See That The Carrier Arrives At The Jobsite On The Requested Hour. Monufacturer Makes No Worronty And Accepts No Responsibility For Costs Associated With A Shipment Not Arriving At The Requested Iline Unless A Seporate Agreement Hos Been Mode in Writing For A Guaranteed Arrival Time.

Unloading, Handling And Storage

STRUCTURAL:
A Creat Amount Of Time And Trouble Con Be Soved If The Building Ports Are
Unloaded At The Building Site According To A Pre-Arranged Plan. Proper Location
And Handling Of Components Will Eliminate Unnecessary Handling.

<u>NOTE:</u>
Plece Marks Are Stenciled On The Primary Structural Members At The Lower End, 1'-0" From The End, Inspect All Shipments Prior To Releasing The Tie-downs For Loads That May Have Shifted During Transit.

REMEMBER SAFETY FIRST:
Blocking Under Columns And Rafters Protect The Splice Plates And The Slob From Domage During The Unloading Process. It Also Facilitates The Placing Of Silngs And Cobles Around Members For Later Litting And Allows Members To Be Bolted Together Into Sub-assemblies While On The Ground. Extra Care Should Always Be Exercised in The Unloading Operation To Prevent In juries From Handling Steel And To Prevent Domage To Materials And The Concrete Slob. If Water Is Allowed To Remain For Extended Periods In Bundles Of Primed Parts Such As Cirts, Purlins, Etc., The Pigment Will Fode And The Point Will Gradually Soften Reducing Its Bond To The Steel. Therefore, Upon Receipt Of A Job, All Bundles Of Primed Parts Should Be Stored At An Angle To Allow Any Tropped Water To Drain Away And Permit Air Circulation For Drying. Puddles Of Water Should Not Be Allowed To Collect And Remain On Columns Or Rafters For Some Reason.

The Coat Of Shop Primer Is Intended To Protect The Steel Froming Only For A Short Period Of Exposure To Ordinary Atmospheric Conditions. The Coat Of Shop Primer Does Not Provide The Uniformity of Appearance, Or The Durobility And Corrosion Resistance Of A Field Applied Finish Coat Of Point Over Shop Primer.

Roof And Wall Panels

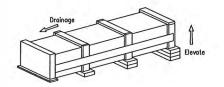
Manufacturer's Roof And Wall Panels Include Color Coated, Galvalume, And Colvanized, Provide Excellent Service Under Widely Varied Conditions. All Unloading And Erection Personnel Should Fully Understand That These Panels Are Quality Merchandise, Which Merits Caulious Care And Handling.

WEDER NO CIRCUMSTANCES SHOULD PANELS BE HANDLED ROUGHLY
Pockages Of Sheets Should Be Lifted Off the Truck With Extreme Care Taken To
Ensure That No Damage Occurs To Ends Of The Sheets Or to Side Ribs. The
Packages Should Be Stored Off The Ground Sufficiently High To Allow Air
Circulation Underneath The Packages. This Avoids Ground Moisture And Deters
People From Wolking On The Packages. One End Of The Package Should Be
Elevated To Encourage Drainage In Case of Rain. The Manufacturer Exercises
Caution During Fabrication An Shipping Operations To Ensure That All Panel Stock
Is Kept Dry. However Due To Climatic Conditions, Water Formed By Condensation
Of Humid Air Become Trapped Between Sheets. Water Can Also Be Trapped
Between The Stocked Sheets When Exposed To Rain. This May Discolaration
Caused By Trapped Moisture. The Stoin Is Usually Superficial And Has Little Effect
On The Appearance or Service Life Of The Panels As Long As It Not Permitted
To Remain On The Panel. However, Moisture in Contact With The Surface Of The
ponel Over An Extended Period Can Severely Altack The Frish And Reduce The
Effective Service Life. See R1-07 Titled "Damage From Condensation Or Trapped
Water".

CAUTIONS:

Care Should Always Be Token When Walking On Panels. Use Safety Lines And Net When Necessary. Panels Are Slippery, Wipe Dry Any Molsture Or Surface Material That Hos Puddle From Bundles Stored On A Slope. Dew, Frost, Or Other Forms Of Molsture Creatly Increase The Slipperiness Of The Panels. Always Assume Panel Surface is Slippery And Act Accordingly, Never Wolk Of Step On Skylights Or Translucent Panels.

Use Wood Blocking To Elevate And Slope The Panels In A Manner That Allows Moisture To Drain. Wood Blocking Placed Between Bundles Will Provide Additional Air Circulation. When Hondling Or Uncrating The Panels, LIft Rather Than Silde Them Apart. Burred Edges May Scratch The Coated Surfaces When Sheets Are Sild Over One Another. Never Allow Panels To Be Walked On While On The Ground.



Roof And Wall Panel Damage During Construction

The Quality Of Workmanship in Steel Construction Practices And Handling Meth Used During The Construction Of The Metal Building Can Significantly Affect T Appearance And Performance Of The Building Panels. Panel Damage During Construction Can Be The Result Of Faulty Installation Methods And/or

Overdriven Fasteners Cause Indentations Or Shallow Pockets In The Panel Around The Fastener Head. Rain Water Or Condensation Moisture Combined With Atmospheric Pollutants (principally Sulfur Dioxides) And Dirt Particles Collect In These Pockets. The Combination Of Pollutants And Water Greates Acid Solutions That Will Cause Corrosion Damage To The Panel And Fastener. Rain May Wash Some Pollutants Away, But Moisture In Form Of High Humidity Can Keep These Areas Wet And Continue The Problem. Overdriving The Fastener Also Forces The Sealing Washer From Under The Head Creating A Leak At This Point. Proper Torque Adjustment Of The Screw Gun Or Preferably The Use Of A Depth Gauge Will Elinniate The Problem Of Overdriven Fasteners.

Will Liminate The Problem Of Overdriven Fosteners.

It is Extremely important That All Drill Shavings from The Installation Of Panel Fosteners And Fillings From The Saw Cutting Of Panels Be Removed From The Panel Surface. Corrosion Can Occur in A Matter Of Hours When These Shavings Or Fillings Are Not Removed And Are in Contact With Water Or Condensed Moisture. When Panels Are Pre-Drilled Or Cut in The Stack Prior To Erection All Shavings Must Be Cleaned From Both Sides Of The Panel To Prevent Corrosion Of The Panel By These Particles. It is Imperative That The Roof Be Swept Clean At Least Daily And Certainly At Job Completion. The Final Cleaning Of The Roof Should Be Done Prior To Installing The Gutter So That The Shavings Are Not Deposited Into The Gutter And Left To Corrode. Any Other Foreign Objects Or Debris Left By Construction Personnel Should Also Be Removed From The Roof During The Erection Of The Roof And The Installation Of Such Equipment As Air Condition Units, Etc..

Personnel Walking On The Panel Can Cause Damage. Workmen Should Step Or Walk In The Broad Flat Areas Of The Panel And Avoid Stepping On The Panel Ends And Edges Which Can Be Bent By Careless Handling. If This Damage Is Severe, The Edges Must Be Straighten Prior To Erection Since The Appearance And/or Weather Tightness Of The Panel Could Be Affected. Dragging One Panel Across Another Can Cut Or Abrade The Coating Causing Unsightly Marks On The

Attempts To Erect Panels During Windy Conditions Should Be Avoided To Prevent Damage And Of Safety Considerations.

Leaving Dirt Piled Against The Exterior Woll Panels At The Foundation Will Cause Panel Damage. This Dirt May Be Wet Or At Least Contain Some Moisture. Mud May Have Splashed Onto The Woll During Construction. Corrosion Damage May Occur Where This Dirt Or Mud Contacts The Panel. In Areas Where Lime Stabilization Of The Soil is Required, Corrosion Damage From The Soil's Content
Will Be Accelerated And Most Likely Be Severe. All Dirt Must Be Removed From
The Panel Walls At The Time Of Completion Of Work. Pre-Painted Panels May Require Touch—up If The Coating Has Been Damaged During Handling Or Erection

The Appearance Of The Building May Be Affected If Damaged Spots Or Scrotches Are Located In Highly Visible Places Such As Around Doors, Windows, Etc.. If Damage Is Extensive Then Replacement Of The Entire Panel Should Be Considered.

Types Of Finishes
SHOP PRIMED STEEL:
All Structural Members of The Metal Building System Not Fabricated Of Corrosion Resistant Material Or Protected By A Corrosion Resistant Coating Are Painted With One Coat Of Shop Primer Meeting The Performance Requirements of SSPC Paint Specification No.15. The Coat Of Shop Primer Is Intended To Protect The Steel Framing For Only A Short Period Of Exposure To Ordinary Atmospheric Conditions. Shop Primed Steel Which is Stored in The Field Pending Erection Should Be Kept Free Of The Ground And So Positioned As To Minimize Water Holding Pockets, Dust, Mud And Other Contamination Of The Primer Film. Repairs Of Damaged To Primed Surfaces And/Or Removal Of Foreign Material Due To Improper Field Storage of Site Conditions Are Not The Responsibility of the Manufacturer. The Manufacturer is Not Responsible For Deterioration Of The Shop Coat Of Primer Or Corrosion That May Result From Exposure To Atmospheric And Environmental Conditions, Nor The Compatibility Of The Primer To Any Field Applied Coating, Minor Abrosions To The Shop Coat (Including Calvanizing) Caused By Handling, Loading, Shipping, Unloading And Erection After Painting Or Calvanizing Are Unavoidable. (MBMA 2012, Chapter IV 4.2.4).

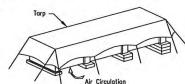
CALVALUME:
Colvolume Is The Trade Name For A Patented Steel Sheet And Coil Product
Having A Coating Of Corrosion Resistant Aluminum—Zinc Alloy. The Mixture Is
Balanced To Obtain The Coating That Retains The Corrosion Resistance And Heat
Reflectivity Of Aluminum And Golvanic Protection Of Zinc. The Best Properties Of
Both Aluminum And Zinc Are Combined In This Coating And Offer Added Service

Pre-Pointed:
Using Colvolume Steel As A Substrate, Pre-Painted Steel Is Given An Additional Rust Inhibitor Primer Cout. This Primer Cout. This Primer Cout. The Increases The Corrosion Resistance. These Coatings Are Applied to The Exterior Surface Of The Panels And A Wash Coat Designed Only For Interior Use, Is Applied On The Opposite Side. Colvolume And Pre-Painted Steel Con Give Excellent Service For Many Yeors If A Few Rules Concerning Their Care And Maintenance Are Observed. All Of These Finishes Are Equally Subject To Damage And Corrosion When Care Is Not Provided.

Damage From Condensation Or Trapped Water

It is Extremely Important That The Panels Be Monitored For Evidence Or Trapped Water Or Moisture Condensation While Awaiting Erection. High Humidity Conditions With Temperature Cycling Will Cause Condensation Between Panels Within The Bundle. Condensation Can Occur Frequently Near The Sea Coast Or Other Large

If Jobsite Covers Are Used, They Should Be Tled Away From The Bundle At Corners To Allow Air Circulation Around The Bundle. This Will Help Prevent Moisture Evaporating From The Ground Or Building Floor From Condensing On The Panels. Plostic Or Other Impermeble Covers Are Not Recommended. Immediate Action Is Required If The Panels Are Found To Be Wet From Any Cause. The Bundles Must Be Opened And Each Ponel Un-Stacked And Thoroughly Dried On Both Sides. Re-Stacking The Panel At A Slight Angle To Each Other To Prevent Nesting Will Allow Air Circulation And Assist In Keeping The Panel Dry. In Severe Conditions Large From Scon Be Used To Circulate Air Belween The Un-Stacked Panels And Accelerate Drying. Damage To The panel Coating Occurs When Panels Mithin 24 to 48 Hours. This Damage Shows Corrosion And Discoloration Of The Panel Surface And Is Commonly Called Wet Storage. Stain, Zinc Oxidation, Or "White Rust".



A Softening Of The Point Film Can Occur With Pre-Pointed Steel Under Wet Storage Conditions And The Durability Of The Panel Finish Substantially Decrease. Bare Galvanized And Galvalume Panels React More Quickly To Surface Oxidation Since They Lock The Additional Protection Of Paint. Zinc Coated Or Galvalume Panels Under Normal Exposure Form A Zinc Aluminum Oxide Film On Their Surface Allowing A Slow Oxidation Process Colled "Weathering" To Occur That Inhibits Further Corrosion. In Nested Bundles Constant Contact Of The Panels With Condensed Or Trapped Water Prevents This Weathering Process.

Rapid Oxidation Of The Zinc or Zinc Aluminum Coating Can Now Occur And May Lead To "Red Rust" in A Short Time. If Discoloration Or Stains Are Minor A Household Cleaner Of The Type Used On Porcelain Sinks And Bathtubs May Be Used To Remove Stains. Wire Brushing Or Abrasive Materials Should be Avoided Since Scratching Or Removel Of The Coating Could Occur. Panel With Significant Damage Should Be Replaced By The Buyer Prior To Erection.

Safety Commitment

The Builder/Contractor is Responsible For Applying And Observing All Pertinent Safety Rules And OSHA Standards As Applicable.

The Building Manufacturer Has A Commitment To Manufacture Quality Building Components That Can Be Safely Erected. However The Safety Commitment And Job Site Practices Of The Erector Are Beyond The Control Of The Building

It is Strongly Recommended That Safe Working Conditions And Accident Prevention Practices Be The Top Priority Of Any Job Site.

Local, State And Federal Safety And health Standards, Whether Standard Statuary Or Customary, Should Always Be Followed To Help Ensure Worker Safety.

Make Sure All Employees Know The Safest And Most Productive Way Of Erecting A Building. Emergency Procedures Should Be Known To All Employees. Daily Meetings Highlighting Safety Procedures Are Also Recommended. The Use Of Hard Hots, Rubber Sole Shoes For Roof Work, Proper Equipment For Handling Material And

For The Purposes Of Determining Lift Requirements, No Bundle Supplied By The Monufacturer Will Exceed 4,000 Pounds. For Further Information Also reference The Bill Of Materials For Individual Member Weights Of Structural Members. If Additional Information is Required Contact The Field Service Department.

ICE AND SNOW REMOVAL: Excessive Ice And Snow Removal Should Be Removed From The Roof Immediately To Prevent Damage To Roof And Possible Collapse. Do Not Use Metal Tools To

no rrevent wamage to Roof And Possible Collapse. Do Not Use Metal Tools To remove The Ice Or Snow As This Can Damage The Point And/Or Golvalume Coatings. Also Be Careful Around Pipes And Flashing's.

Be Extremely Careful If Your Roof Has Light Transmitting Panels. These Panels Will Not Support A Person's Weight And Will Be Difficult Or Impossible To See If They Are Covered With Ice Or Snow. See MBMA Low-Rise Building Systems Monuol, Appendix AB For Details On Snow Removal Procedures. These Procedures Should Commence When Holf Of The Design Roof Snow Load is Realized.

DEBRIS REMOVAL:

Any Foreign Debris Such As Sawdust,Dirt, Leaves, Animal Droppings, Etc. Will
Cause Corrosion Of The Roof, Gutters, Trim, Etc. If Left On The Building Surface
For A Long Enough Time. The Roof Should Be Periodically Inspected For Such
Conditions And If Found, They Should Be Rectified in A Monner Consistent With
These Roof Maintenance Guidelines. Never Allow Treated Lumber Or Concrete/Mortar/Grout To Come In Contact With Roof Panels, Especially Galvalume For Extended Periods Of Time.

PERIODIC INSPECTION:
All High-Strength Shall Be Periodically Be Inspected For Tightness. Particularly in Crone Buildings And After Seismic Or Wind Activity. The Crane Manufacturer Will Specify A Minimum Period But It Should Not Exceed Two Years.

- DRAINAGE:

 1. Keep Roof Free Of Debris And Keep Debris Out Of Gutter To Allow Water Quickly Drain From The Roof.

 2. Do Not Use Wood Blocking To Hold Equipment Off The Panel Seams. This Blocks The Flow Of Water And Hold Moisture.

 3. Do Not Allow Rooftop AC Units Or Evaporative Coolers To Drain Onto The
- 4. Anything That Traps Or Holds Moisture On A Roof Will Cause Premature

Roof Maintenance Guidelines

- 1. Inspect Roof For Damage After Heavy Storms.
- 2. Inspect And Reseal As Necessary All Roof Curbs And Other Penetrations With
- 3. Always Get Monufacturer Approval Before Making Any Modifications To The Roof.
- 4. Repaint Any Areas That Are Susceptible To Rust As Required.
- When Performing Roof Maintenance, Always Take The Following Precautions:
 Use Fall Protection And Other Safety Protection As Required.
 Do Not Walk On Roof Flashing Such As Gutter, Roke, Hip Or Ridge Flash. c. Do Not Walk On Light Transmitting Panels (LTP's). They Will Not Support A
- Person's Weight.
 d. Guard All LTP's And Roof Openings.
 e. Step Only in The Panel Flat Directly On Or in Close Proximity To A Supporting Roof Structural.
- 6. After Other Trades Have Been On The Roof For Any Reason, inspect The Roof For Damage Caused By Workers including Chemical Or Solvent Spills, Scratches In The Paint for Golvalume Coating, Excessive Foot Traffic And Punctures. Moke Sure That All Debris Or Scrop Left Behind By Workers is Removed From The Roof Immediately, Avoid Using Cutoff Saws And Welding Equipment Over The Roof. The Roof Must Adequately Protected.

FOOT TRAFFIC:
Keep Foot Traffic To A Minimum. Heavy Foot Traffic Can Cause Panding On Low Pitched Roofs. This is Particularly True Just Upslape From The Eave And At Endlaps.
Always Walk in The Flat Of The Panel Near A Supporting Roof Structural. Do Not Walk On Trim Or in Gutters.
On Bare Galvalume Roofs, Excessive Foot Traffic May Cause Black Burnish Marks.

N Bandle Foot Traffic Palpaged For A Roof Provisions Should Re Made For A

On Bore Golvolume Kools, Excessive Foot Irdific May Cauce Block Burnish Morks. If Regular Foot Traffic Is Planned For A Roof, Provisions Should Be Made For A Properly Designed And Installed Walkway System. In Order To Limit Access To The Roof, Roof Hatches Or Access Ladders Should Be Locked At All Times. A Sign Posted At The Access Site Stating That Only Authorized Personnel Are Allowed On The Roof. In Addition A Lag Book Should Be Kept Of All Visits To The Roof And The Reason For Such Visits.

DISSIMILAR METALS:
Never Allow Your Roof To Come In Contact With, Or Water Runoff From Any Dissimilar Metal Including But Not Limited To:
Copper, Lead Or Graphite, This Includes Copper And Arsenic Solts Used In Treated Lumber, Colcium Used In Concrete, Mortor And Grout.

Never Step On Light Transmitting Panels (LTP's) Or Unattended Roof Panels



Panels May Collapse If Not Properly Secu

Roof Panels Must Be Completely Attached To The Purlins And To Panels On Either Side Before They Can Be A Safe Walking Surface. Light Transmitting Panels LTP's) Translucent Panels Can Never Be Considered As A Walking Surface.

Partially Attached Or Unattached Panels Should Never Be Wolked On!

- 1. Step On Rib At Edge Of Panel.
- 2. Step Near Crease In Rib At Edge Of Panel.
- 3. Step Within 5 Feet Of Edge On Unsecured Panel.

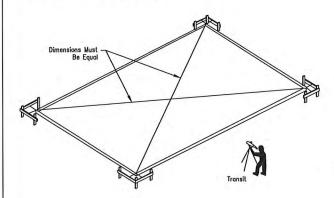
A Single Roof Ponel Must Never Be Used As A Work Platform. An OSHA Approved Runway Should Be Used For Work Platforms. (Consult OSHA Safety And Health Regulations For The Construction Industry). Safety First!

Erection Guide

R1

Building Anchorage

- 1. To Determine That The Foundation is Square, Measure Diagonal Dimensions To Be Sure They Are Of Equal Length.
 2. To Determine That The Foundation is Level, Set Up A Transit Or Level And Use A Level Rod To Obtain The Elevation At All Columns.
 3. Carefully Check The Location Of All Anchor Rods Against The Anchor Rod Setting Plan Furnished By The Manufacturer. All Dimensions Must Be Identical To Assure A Proper Start-up.

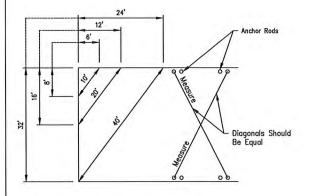


Pre-Erection Notes:

The Following Notes, Procedures And Suggested Recommendations Are Important Parts Of The Pre-Erection Process.

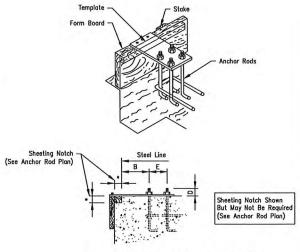
Prior To The Time The Erection Crew Arrives, A Responsible Person Should Check The Job Site For Foundation Readiness, Square, And Accuracy And Anchor Rod Size And Location.

The Drawing Shown Below Indicates A Method Which May Be Used To Check The Foundation And Bolts For Square.

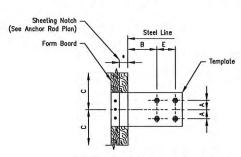


Measure Along Adjacent Sides Of Foundation Using A Pair Of Dimensions Shown. If The Diagonal Distance Belween These Points Is As Noted, The Corner Is Square. Diagonal Measurements Between Opposite Anchor Rods Will Indicate If These Bolts Are Set Square.

It is Extremely important That Anchor Rods Are Placed Accurately And In Accordance With The Anchor Rod Setting Plan. All Anchor Rods Should Be Held in Place With A Template Or Simillar Means, So That They Will Remain Plumb And In Correct Location During The Placement Of The Concrete. A Final Check Should Be Mode After Completion Of The Concrete Work And Prior To The Steel Installation. This Will Allow Necessary Corrections To Be Mode Before Coatly Installation Lobor And Equipment Arrives.

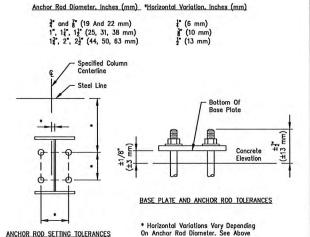


Projection Of Anchor Rods (D) Given On Anchor Rod Plan



Dimensions A, B, And C Given On Anchor Rod Plan

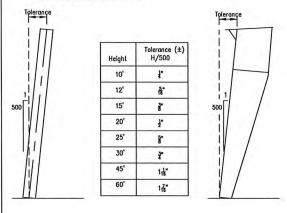
AISC Code Of Standard Practice For Steel Building And Bridges Tolerances For Setting Anchor Rods



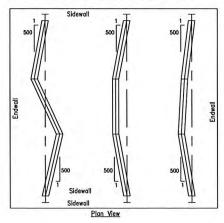
Erection Tolerances

ERECTION BRACING:
It is The Responsibility Of The Erector To Determine, Furnish And Install All
Temporary Supports Such As Temporary Guys, Beams, Falsework, Cribbing, Or
Other Elements Required for The Erection Operation (in Accordance With Section
7.10.3 Of ANSI/ANSC 303, Code Of Standard Practice For Steel Building And

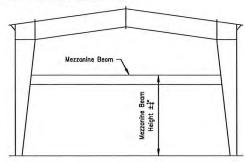
COLUMN ALIGNMENT TOLERANCES



ALIGNMENT TOLERANCE FOR MEMBERS WITH FIELD SPLICES



MEZZANINE BEAM HEIGHT TOLERANCE

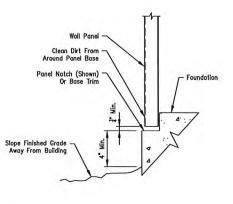


General Erection Notes

- 1.) All Structurol Framing Members, Purlins, Girts, Clips, Flonge Braces, Bolts, Bracing Systems, Roof And Wall Panels, Etc. Must Be Installed As Shown On Erection Drawings.
- 2.) It is Extremely Important, Especially During Construction, That Panels At The Eaves, Rakes And Ridges Be Kept Secure.

Panel Cautions And Notes

- To Minimize Potential Of Corrosive Action At The Bottom Edge Of Wall Ponels, The Contractor Must Assure That The Following Procedures Are Followed:
- 1.) The Concrete Foundation Should Be Cured For A Minimum Of Seven (7) Days Before Woll Panels Are Installed. (Uncured Concrete is Highly Alkaline And Metal Panels are foot in Undergo Varying Degrees Of Corrosive Attack When In Direct Contact With The Concrete.) After The First Week Of The During Cycle, The Reaction Between Metallic Coatings On Steel And The
- 2.) Top Of Finish Grade At Building To Be A Minimum Of Four (4) Inches Below Bottom Of Panel.
- 3.) Finish Grade Is To Slope Away From Building To Ensure Proper Drainage.
- 4.) Upon Completion Of Finish Grading, All Dirt is To Be Cleaned From Around Base Of Wall Panel Where It May Have Collected in Panel Notch Or On Base Trim.



Fastener Installation

Correct Fostener Installation is One Of The Most Critical Steps When Installing Roof/Wall Panels. Drive The Fostener in Until It is Tight And The Washer is Firmly Seated. Do Not Overdrive Fosteners.

A Slight Extrusion Of Neoprene Around The Washer is A Good Visual Tightness Check. Always Use The Proper Tool To Install Fosteners. A Fostener Driver (Screw Cun) With A RPM Of 1700–2000 Should Be Used For Self-Drilling Screws. A 500–600 RPM Fostener Driver Should Be Used For Self-Drilling Screws. Discord Worn Sockets, These Can Cause The Fostener To Wobble During Installation.

<u>Note:</u> Always Remove Metal Filings From Surface Of Panels At The End Of Each Work Period. Rusting Filings Can Destroy The Paint Finish And Void Any Warranty.







Tape And Tube Sealant

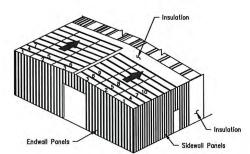
Proper Tape And Tube Seolant Application is Critical To The Weather Tightness Of A Building. Tope Sectiont Should Not Be Stretched When Installed. Apply Only To Clean, Dry Surfaces. Keep Only Enough Seolants On The Roof That Con Be Installed in A Day. During Warm Weather, Store Seolants in A Cool Dry Place. During Cold Weather (below 60') Seolants Must Be Kept Warm (60'-90') Unlin Application. After Tope Seolant Hos Been Applied, Keep Protective Paper in Place Until Panel is Ready To Be Installed.

Important Note

- All Details, Recommendations And Suggestions Contained in This Erection Guide Of This Drawings Set Are For General Guidelines Only, And Not Meant To Be All-inclusive, Industry Accepted Installation Practices With Regard To All Areas Not Specifically Discussed in This Section Should Be Followed. Only Experienced, Knowledgeoble Installers Familiar With Accepted Practices Should Be Used To Assure A Quality Project.
- It is Emphasized That The Manufacturer is Only A Manufacturer Of Metal Building Components And is Not Engaged in The Installation Of its Products. Opinions Expressed By The Manufacturer About Installation Practices Noted in The Erection Guide Are Intended To Represent Only A Guide. Both The Quality And Safety Of Installation And The Ultimate Customer Satisfaction With The Completed Building Are Determined By The Experience, Expertise, And Skills Of The Installation Crews, As Well As The Equipment Available For Handling The Materials. Actual Installation Operations, Techniques And Site Conditions Are Beyond The Manufacturers Control.

PBR Roof Panels

For PBR Roofs With Ridge Ponels, It is Recommended That Both Sides Of The Ridge Be Sheeted Simultaneously. This Will Keep The Insulation Covered For The Maximum Amount Of Time And The Panel Ribs Can Be Kept In Proper Alignment For The Ridge Cops. Is is Critical On The PBR Ponels So That The Ridge Cops Can Be Properly Installed. Check For Proper Coverage As The Sheeting Progresses



Install The First Run Of Roof Ponels Across The Building From Eave To Eave Or Eave To Ridge. To Allow Proper Installation Of The Roke Trim, The Starting Location For The First Ponel Must Be As Shown in The Roke Details Included With The Erection Drawings. When The First Run is Properly Located And Aligned With The Correct Endlops And Eave Overhangs, Fasten To Purlins. Roof Ponels Should Be Installed So That The Sidelop is In A Direction Away From Prevailing Wind. Refer To Appropriate Lop Details Included With The Erection Drawings.

Install Remaining Roof Insulation And Panels. To Avoid Accumulative Error Due To Panel Coverage Gain Or Loss, Properly Align Each Panel Before It Is Fastened. Occasional Checke Should Be Mode To Ensure That Correct Panel Coverage Is Maintained. Special Attention Should Be Given To Fastener, Sealant and Cosure Requirements. Refer To Details Included With The Erection Drawings.

At Finishing End Of Roof, The Last panels May Require Field Modification For Installation Of Roke Trim. Refer To Roke Details Included With The Erection Drawings. DO NOT BACK LAP THROUGH FASTENED ROOF PANELS.

NOTE: Roof Types And Installation Requirements Will Vary. Refer To The Appropriate Details For Specific Panel Used.

<u>IMPORTANT:</u> Loose Fasteners, Blind Rivets, Drill shavings, Etc.. Must Be Removed From The Roof To Guard Against Corrosion.

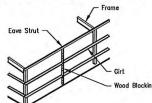
Wall Panels

Proper Horizontal And Vertical Alignment of Supporting Structure (Girts Or Other Framing) is The Responsibility Of The Installer, Failure To Align The Secondary members Properly Prior To Wall Installation Con Have A Direct Impact On The Final Appearance And Performance Of The Installed Wall System For Which The Metal Building Manufacturer is Not Responsible.

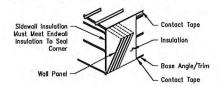
Before Installing Wall Panels, The Girts Must Be Aligned To A Level Position So That There Is No Visible Sag. This Should Be Done Directly Ahead Of Panel

Girt Leveling May Be Accomplished By Standing A Section Of Goble Angle Vertically Against The Outside Girt Flanges At Approximate Mid-bay Location. When Girts Are Level, Attach The Girt Flanges To The Angle With Vise Grip Pilers Or Temporary Screws. Wood Blocking Cut To Fit The Spaces May Also Be Used For Alignment.

Note: Temporary Girt Blocking Is Not Recommended On Conceoled Fastener Panels. The Removal Of The Blocks After Panel Installation Con Cause Oil Canning.



NOIE: Wall Ponel Type And Installation Details Will Vory. Refer To The Erection Drawings And Details For The Specific Panel Used For Your Building.

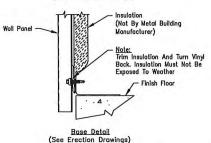


If Wolls Are To Be insulated With Blanket insulation Over Girt Girt Flanges, Base And Eave, Place A Continuous Run Of Contact Tope Along The Eave Strut And Base Member.

. .

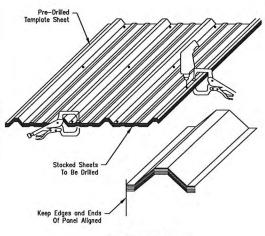
At The Bose, Cut Off The Insulation A Minimum Of ½* Above The Bottom Of The Wall Panel. This Will Prevent The Insulation From Hanging Below The Wall Panel And Wicking Moisture.

Note: Additional Insulation May Be Required To Fill The Eave Strut And Prevent Condensation In Certain Climate Regions (Not By Metal Building Double Faced Tape To Be Used To Secure Insulation. Note: Trim Insulation And Turn Vinyl (Not By Metal Building Wall Panel (Not By Metal Building Fiberglass Insulation To OUTSIDE Of Building Eave Detail
(See Erection Drawings) (Not By Metal Building



Sidewall Panels Should Be Installed So That The Panel Sidelop is in A Direction Away From The Prevailing Wind. Refer To Appropriate Lap Detail Included With Erection Drawings.)

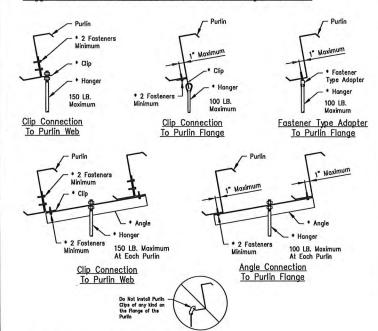
Note: Check Periodically To Ensure That All Panels Are Aligned And Plumb.



Screw Alignment Panel (Through Fastened Panel Only)

Note: After Drilling Panels, It is important To Clean Metal Filings Off All Panel Surfaces, Including Between Panels That Are Not Installed That Day, To Avoid Rust Stains.

Suggested Method Of Purlin Attachment For Building Accessories



* Denotes Material Not Provided By Metal Building Manufacturer.

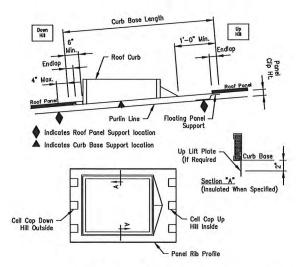
The Total Hanger Load Shall Not Exceed The Design Collateral Load For The Building. Example: 5'-0 (Purlin Spacing) X 5'-0 (Hanger Spacing) X 6 PSF (collateral Load)

5-0 (Purlin Spacing) X 5'-0 (Hanger Spacing) X 6 PSF (collateral Load) = 150 Lbs.

See Cover Sheet For Design Collateral Load For This Building.

Note: If The Building is Designed For 0 PSF Collateral Load, Then Adding Any Suspended System (i.e. Duct Work, Piping, Lights, Ceilings, Etc.) Will Correspondingly Reduce The Design Live Load.

Roof Curbs When Not Supplied By Building Manufacturer



The Curb Details Shown Illustrate The Building Manufacturers Recommended Curb Style And installation Method. It is The Errector/Installer's Responsibility To Provide The Proper Curb Style And Install Them In Accordance With The Procedures Established By These Details, Failure By The Erector/Installer To Follow These Recommendations May Result in The Curbs Domagling The Roof System Or

All Roof Curbs To Be:

1. .080 Aluminum Or 18 Ga. Stainless Steel (No Galvalume® Or Galvanized).

2. Panel Rib To Panel Rib (No Rat Skirt Or Lay-Over Curbs).

3. Installed With Down Hill End Over Panel And Up Hill End Under Panel Application For Water Row At Panel Splice.

4. Up Lift Prevention For Clip Applied Roof Systems Are Required If:

a. Wind Loads Exceed 110 MPH.

b. Curb Base Crosses A Purlin.

5. Supported on (4) Sides By Primary Or Secondary Framing.

6. Maximum Single Curb Weight Recommended Is 1500 Lbs.

Roof Jack Installation when Not Supplied By Building Manufacturer

General Installation Notes

Po Not Use Galvanized Roof Jacks, Lead Hats, Or Other Residential Grade Roof Jacks. These Roof Jacks Do Not Use Galvanized Roof Jacks, Lead Hats, Or Other Residential Grade Roof Jacks. These Roof Jacks Do Note Panel.

Use EPDM Rubber Roof Jacks With An Integral Aluminum Band Bonded Into The Perimeter Of The Base. EPDM Roof Jacks Have A Temperature Range From -65F To 212F. Use Silicone Roof Jacks For High Temperatures. Silicone Roof Jacks Have A Temperature Range Of -100F To 437F.

Retrofit Roof Jacks Are Available For Applications in Which The Top Of The Pipe Is Inaccessible, Eliminating The Possibility Of Silding The Roof Jack Over The Top Of The Pipe.

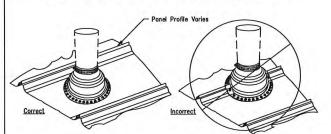
Inaccessible, Eliminating The Possibility OI Silding The Koof Jack Ver Inia top UT Inie Pipe.

Do Not Use Tube Sealant To Seal The Roof Jack To The Roof Panels. Use Rolf Tope Sealer Between The Roof Jack And The Roof Panel And Attach The Roof Jack To The Roof Panel With Fostener \$4 \frac{1}{2} - 14 \text{ X } \frac{1}{6} \text{ L. SD W/washer At 1" 0.C. Around The Base Of The Roof Jack See Tolbe Below For Quantities.

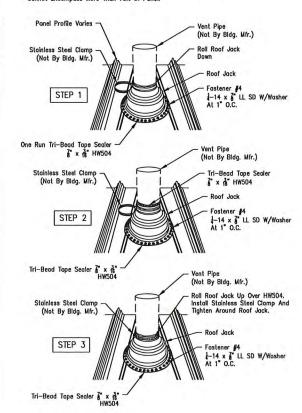
Trim The Top Of The Roof Jack To The Verimeter Of The Roof Jack Base Between The Roof Jack And The Roof Jack Tope Sealer Around The Pipe And Install A Stainless Steel Clamp (Not By Blidg. Mfr.) Over The Top Of The Roof Jack And Firmly Ilighten To Form A Secure Compression Seal.

If The Pipe Diameter is So Lorge To Block The Flow Of Water Down The Roof Panel, A Flot Base Roof Curb Must Be Installed Into The Roof And The Roof Jack Will Be Sealed To The Curb. A Two Piece Curb May Be Required When The Top Of The Pipe Is Inoccessible.

in Northern Climates, The Pipe Penetration Should Be Protected From Moving Ice Or Snow With A Snow Retention System Immediately Up Slope From The Pipe.



Install Pipe in Center To Allow Base Of Roof Jack To Lay Flat on Panel. Cannot Encompass More Than 75% Of Panel.



Frection Guide

R3

BOARD ACTION FORM

AGENDA DATE

PZHAC: April 04, 2022,

BOT:

ITEM: PZHAC **Case** #**061364** – 2043 Calle De Correo, submitted by Alison Tinsley to install a residential rooftop solar system, **Zoned: Historic Residential (HR).**

BACKGROUND AND ANALYSIS: This case was reviewed by the Architectural Styles Committee (ASC) it was discussed about panel placement and Hight and would it comply with the town code 18.33. it is in the Historic Residential Zone (HR)

Organ Mountain Solar & Electric is proposing an installation of a roof top solar system.

IMPACT:

- The PZHAC has jurisdiction to recommend approval of the applicant's request for approval of this request to the BOT.
- The applicant has the authority to make an application request to the PZHAC and BOT.
- Due process was provided to the applicant.

Specific findings of fact:

• The proposed work is on applicant's property and not in Town of Mesilla right-of-way.

ALTERNATIVES:

The Planning, Zoning and Historical Appropriateness Commission (PZHAC) may:

- 1. Recommend approval of this case with findings stated above.
- 2. Recommend approval of this case with findings stated above and conditions.
- 3. Deny the application.

DEPARTMENT RECOMMENDATIONS:

SUPPORTING INFORMATION:

- Application
- Plans

TOWN OF MESILLA ZONING APPROVAL

OFFICIAL USE ONLY: Case # 06/3/64 Fee \$.359.50

PERMISSION TO CONDUCT WORK OR OBTAIN A COMMERCIAL/RESIDENTIAL BUILDING PERMIT FROM CID

Fee \$ 31000 Device -1950

CASE NO	ZONE:	CODE:	A	PPLICATION DATE	
Alison Tinsley			575-640-3764		
Name of Property Owner			SIN EUROPONICAL CON	's Telephone Number	A CAPACITE STATE OF THE STATE O
2043 Calle De Correo	Las 0	Cruces	NM		88005
Property Owner's Mailing A	ddress	City	State		Zip Code
Property Owner's E-mail A					
Organ Mountain Solar & Contractor's Name & Addre 575-202-9268	Electric	e Self) 03-401215-00-	-0	394801	
Contractor's Telephone Nu	imber	Contractor's Tax	ID Number	Contractor's Lice	nse Number
Address of Proposed Work		Correo Las Cruce	s NM 88005		
Description of Proposed W					
s_ 25,690	Scott Bu			3/15/2022	
Estimated Cost Signature of property own	Signature of A	oplicant		Date	
With the exception of adm before issuance of a zonin	dulatestiva approve	als, all permit request eets are to be no larg	ts must undergo a r er than 11 x 17 inch	eview process from ses or shall be submitte	taff, PZHAC and/or BOT
		FOR OFFICIA	V (+11		
PZHAC 🗆 Ac	Iministrative Appro		вот	☐ Approved Da	te;
				☐ Disapproved	Date:
42 40	sapproved Date:			☐ Approved will	h Conditions
				- CONTRACTOR	
PZHAC APPROVAL REQ	oproved with condit		ADDROVAL REGISS	RED YES I	NO
CID PERMIT/INSPECTIO				Юна	
CONDITIONS:					
PERMISSION ISSUED/D	DENIED BY:			ISSUE DATE	B
Verification shall existence prior to Site Plan with dim Foundation plan v Floor plan showin Cross section of v Roof and floor fra Proof of legal acc Drainage plan. Details of architec	gal description to show that the lot February 1972. The show that the lot February 1972 and details with details and rooms, their uses walls are plan to the property ctural style and coloservice or a copy	show existing struct was <u>LEGALLY</u> sub s. and dimensions. or scheme (checklist in or septic tank per	divided through the	a Town of Mesilla or	provements & setbacks that the lot has been and elevations. it or statement from the

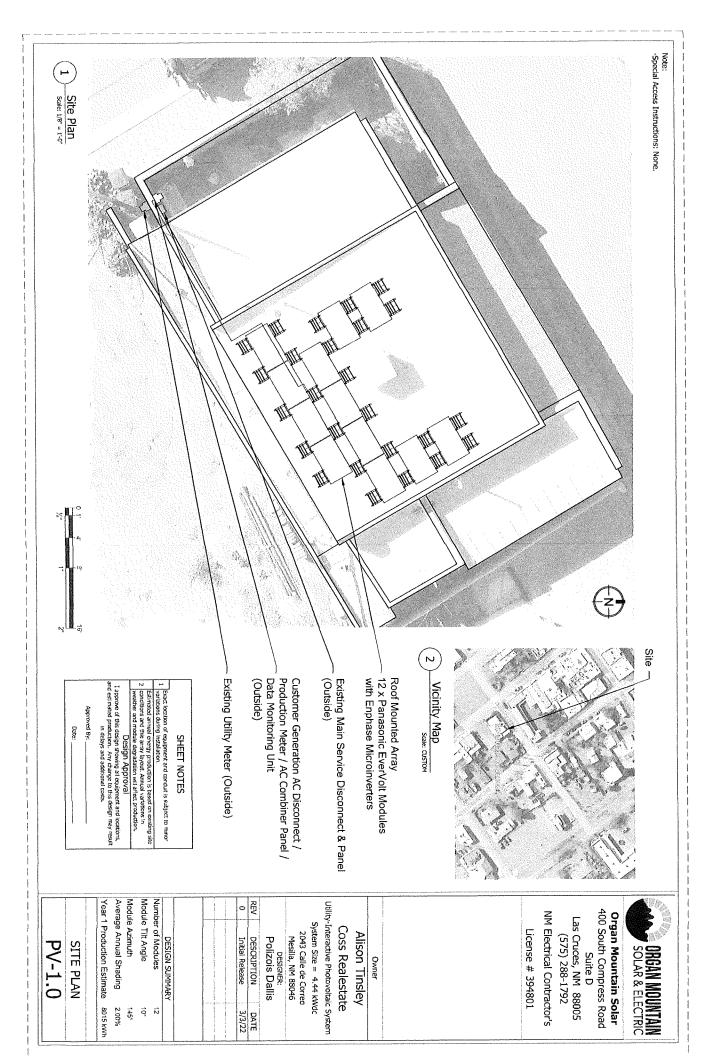
The following are requirements to be included with all building permit applications for new structures or additions to existing structures, as well as other construction or fixtures that will be permanent in nature and affect the appearance or use of the property. (This includes fences, well houses, storage units, metal sheds, photo-voltaic panels that can be seen from the ground, etc.)

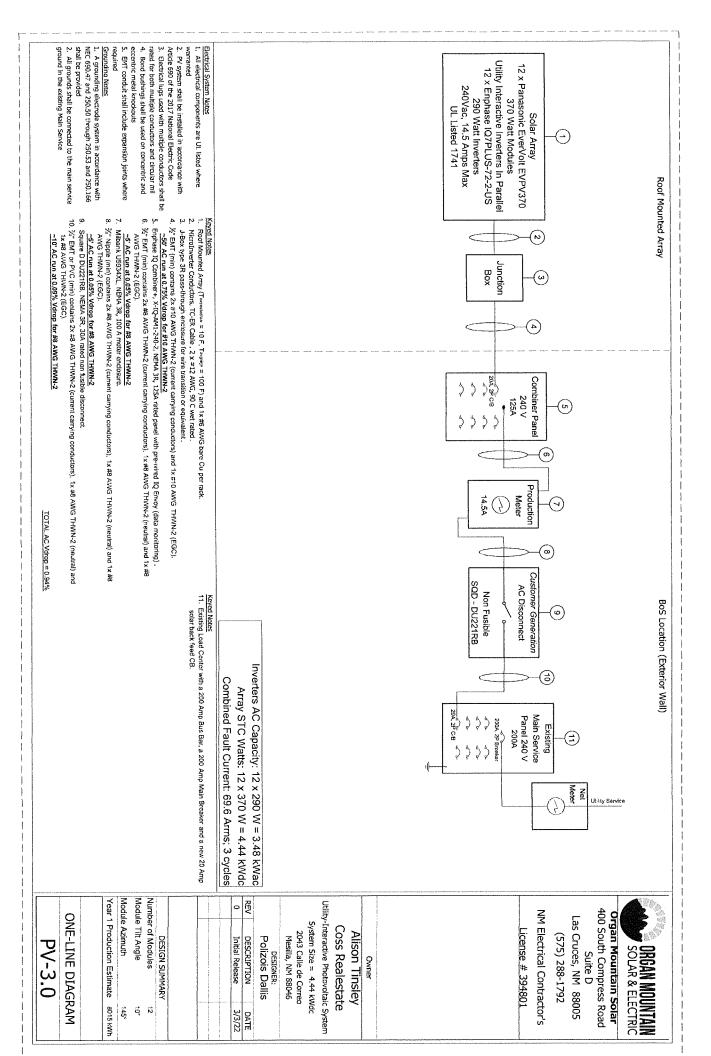
BUILDING PERMIT REQUIREMENTS

A. Co	mpleted	application,	incl	uding:
-------	---------	--------------	------	--------

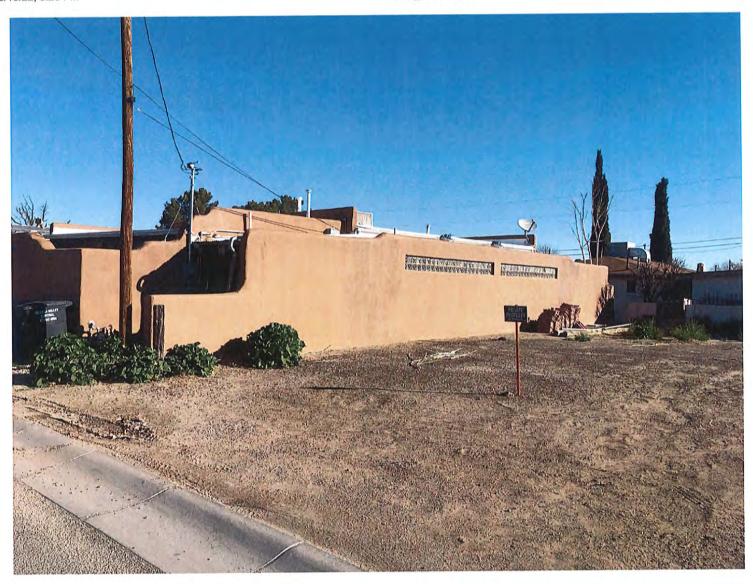
- 1. Applicant's name
- 2. Applicant/property owners contact information
- 3. Physical address of property
- 4. Description of work to be done, including dimensions of any construction or repairs
- 5. Value of work to be done
- 6. Property owner's signature on the application

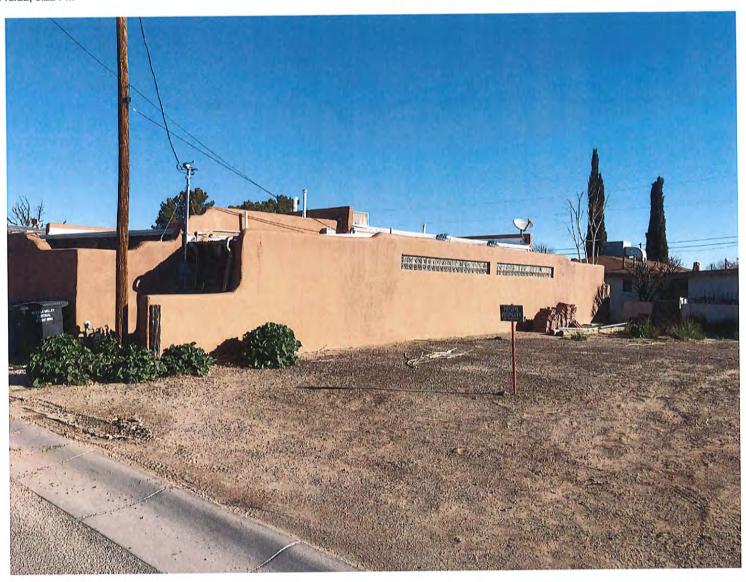
В.	Include all information required in the checklist at the bottom of the application.
C.	Additional information required:





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ACTION FORM

AGENDA DATE

PZHAC: April 04, 2022,

BOT:

ITEM: PZHAC Case #061365 – 3260 Hwy 28, submitted by Roman Prieto to install a solar panel canopy. **Zoned: Residential Agriculture (RA)**

BACKGROUND AND ANALYSIS: Although this property is in the Residential Agriculture Zone this case was reviewed by the Architectural Styles Committee (ASC) and had no issues moving it forward

Yellow Bird Services LLC proposes to install one solar structure with twenty four (24) panels, seven (7) panels will be wired to the shop utility, the remaining seventeen (17) panels will wired to the home utility.

IMPACT:

- The PZHAC has jurisdiction to recommend approval of the applicant's request for approval of this request to the BOT.
- The applicant has the authority to make an application request to the PZHAC and BOT.
- Due process was provided to the applicant.

Specific findings of fact:

• The proposed work is on applicant's property and not in Town of Mesilla right-of-way.

ALTERNATIVES:

The Planning, Zoning and Historical Appropriateness Commission (PZHAC) may:

- 1. Recommend approval of this case with findings stated above.
- 2. Recommend approval of this case with findings stated above and conditions.
- 3. Deny the application.

DEPARTMENT RECOMMENDATIONS:

SUPPORTING INFORMATION:

- Application
- Plans

TOWN OF MESILLA ZONING APPROVAL

OFFICIAL USE ONLY: Case # 06/365 Fee \$ 783.50

PERMISSION TO CONDUCT WORK OR OBTAIN A COMMERCIAL/RESIDENTIAL BUILDING PERMIT FROM CID

CASE NO.	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	P.O. Box 10, Mesilla, N CODE:		CATION DATE:
ONOL NO.				
Roman Prieto			575-621-2456	
Name of Property Own	er		Property Owner's Tele	
3260 Highway		Mesilla	NM	88046
Property Owner's Maili		City	State	Zip Code
Property Owner's E-ma	all Address			
Yellow Bird Ser	vices LLC Address (If none, Indicat			
				820200
575-915-4791		46-3931729 Contractor's Tax ID	Number	Contractor's License Number
Contractor's Telephone			75.34.20	Contractor of Electrica (Vallace)
Address of Proposed V	Nork: 3260 Highy	way 28, Mesilla, NM		
Description of Propose	d Work Please s	ee attachment		
Jescription of Propose	d vvoik.			
	^	M		
\$ 51,158.07	Jan .	Mockney		03/15/2022
Estimated Cost	Signature of A	policent 2		ate
Estimated Cost	Oignature 014)	77
Signature of property	owner:	VIII -		
With the exception of	administrative approva	als, all permit requests m	ust undergo a review	process from staff, PZHAC and/or BC
before issuance of a z	oning permit. Plan sh	eets are to be no larger th	an 11 x 17 inches or s	shall be submitted electronically.
		FOR OFFICIAL U	ISE ONLY	
PZHAC 🗆	Administrative Approv		NAME AND ADDRESS OF TAXABLE PARTY.	☐ Approved Date:
	Approved Date:			☐ Disapproved Date:
	THE RESERVE OF THE PARTY OF THE			☐ Approved with Conditions
	Pre-Minister Control			Li Approvos min constituiono
	Approved with conditi		White and to be a	120
PZHAC APPROVAL R	REQUIRED:YES	NO BOT APP	ROVAL REQUIRED:	YESNO
CID PERMIT/INSPEC	TION REQUIRED:	YES NO	SEE CONDITIONS	

CONDITIONS:				
esta a superior de la companya de la	T. A. L. A. L. A. L. C.			IDOUE DATE:
ERMISSION ISSUE	D/DENIED BY:			ISSUE DATE:
		THE FOLLOWING:		
AIS APPLICATION SE	HALL INCLUDE ALL OF	show existing structures	adioining streets.	driveway(s), improvements & setback
Verification si	hall show that the lot	was LEGALLY subdivid	ed through the Town	n of Mesilla or that the lot has been
existence prio	r to February 1972.			
	dimensions and details	3.		
Foundation plan sho	an with details. owing rooms, their uses	and dimensions.		
Cross section		D4.6/00/5/14		
Roof and floor				
	access to the property.			
Drainage plan Details of arch	ı. hitectural style and colo	r scheme (checklist inclu	ded for Historical zone	es) – diagrams and elevations.
Proof of sev	ver service or a copy	of septic tank permit;	proof of water serv	rice (well permit or statement from t
	providing water services		Market State of the Alberta	when a country has been also as a second appropriate pro-
Proof of legal	access to the property.	Carlotte A. A.		na subhina alla da
Other informa	ition as necessary or re	quired by the City Code of	r Community Develop	ment Department (See other side.)

Roman Prieto

Layer Visibility:

- ✓ Roads
- ☐ City Limits
- ☐MLS Zones
- ☐ Address Labels
- ✓ 2014 Aerial Photo
- ✓ Parcels



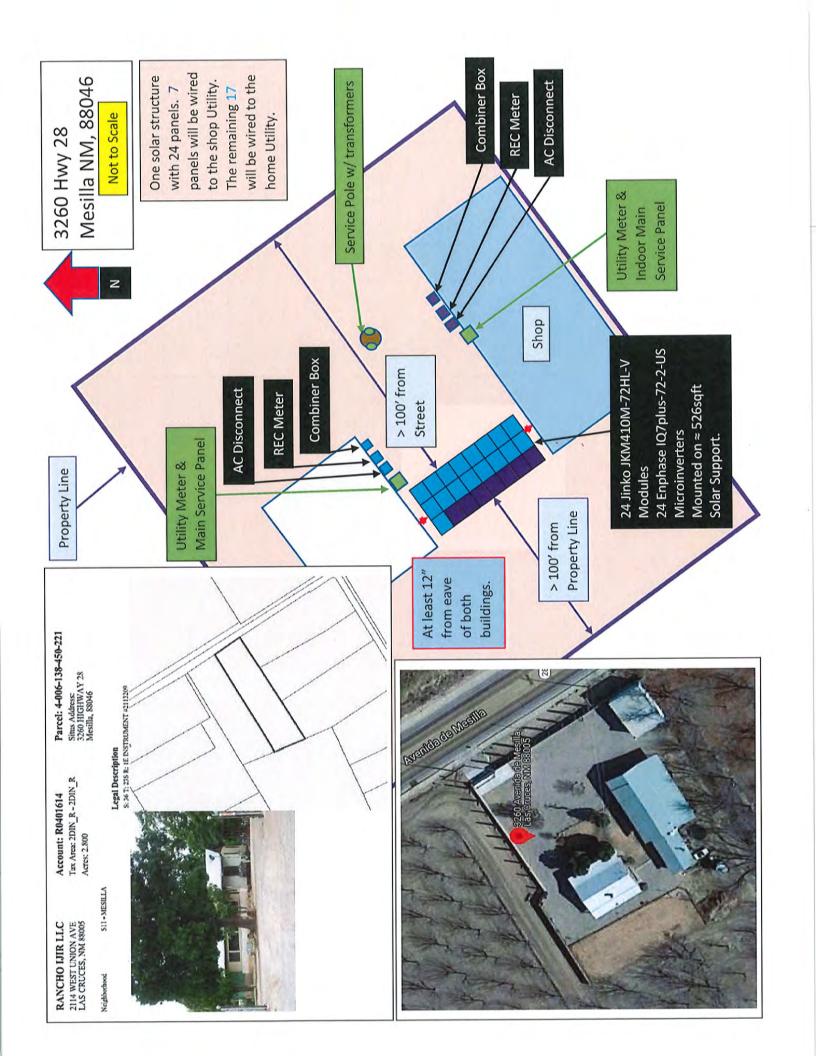
ACCOUNTNUMBER:	R0401614	PARCELNUMBER:	4006138450221
OWNERNAME:	RANCHO IJIR LLC	MAILADDR1:	2114 WEST UNION AVE
CITY:	LAS CRUCES	STATE:	NM
ZIP:	88005	LOT:	
BLOCK:		SUBNAME:	
TRS:	23S 1E 36	SITUSADDRS:	3260 HIGHWAY 28
TOTALACRES:	2.79		

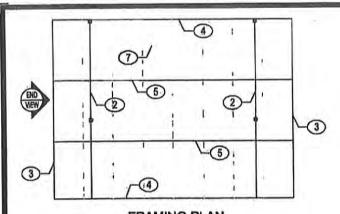
3/25/22, 2:30 PM Account

- Account Search
- View Created Report(s)
- Help?
- Logout Public

Account: R0401614 Real Property Account *Mill Levy does not include Special District Rates such as: Lower Rio Grande Flood Levy, Hueco Levy, Mclead Watershed Levy, Caballo Soil and Water Conservation Levy, and La Union Watershed Levy.



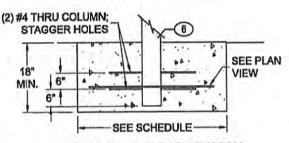




FRAMING PLAN 4'-1" COLUMN MIN. SPACING COLUMN LOCATION, TYP. 19'-9" °B CANTILEVER NOTES:

- 1. MAX. CANTILEVER IS 8-0" 2. MAX. COLUMN SPACING IS 18'-9"

FOUNDATION PLAN



TYPICAL FOOTING SECTION

GENERAL NOTES:

- THIS DRAWING IS INTENDED TO BE ADJUSTABLE TO FIT VARYING FIELD CONDITIONS. THE "B" COLUMNS CAN BE ADJUSTED TO THE MAX. COLUMN SPACING SHOWN. A/B FOOTING SIZES MUST BE PROPORTIONALLY ADJUSTED, AND THE OVERALL TOTAL CF OF CONCRETE MUST BE MAINTAINED.
- TYPICAL FOOTING IS 24" WIDE x 18" DEEP BUT CAN BE VARIED AS SHOWN IN THE FOOTING TABLE.
- FOUNDATION PLAN DIMENSIONS ARE NOMINAL AND MAY VARY BY 8" ±. CONTRACTOR IS RESPONSIBLE FOR FINAL LAYOUT TO ACCOMMODATE PANELS.
- SOLAR PANEL SUPPORT MEMBERS ARE "SUPER PURLINS" SUPPLIED BY POWERS SOLAR FRAMES LLC.
- USE MIN. (2) 1/2" DIA. BOLTS W/ NUT & WASHER AT COLUMN AND BEAM CONNECTIONS AND #12 TEK SCREWS FOR MISC. ATTACHMENTS.
- FOOTING "LENGTH" DEPENDENT UPON COLUMN SPACING, USE STRAIGHT LINE INTERPOLATION.

(5) 4 NOTE: ➂ CANOPY CAN PITCH EITHER DIRECTION ➂ **END VIEW**

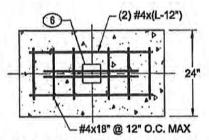
KEYED NOTES

- NOT USED
- (2) 10x2,5 14 GA
- B" GALVANIZED CHANNEL
- EXTERIOR SUPER PURLIN, 0.063" THICK, 75 KSI
- INTERIOR SUPER PURLIN, 0.074" THICK, 75 KSI
- (4) 4"x4" 14 GA. SQ. TUBING, 13' MAX. CLRNC.
- SOLAR PANEL, TYP.
- MIN. (2) ½" DIA. BOLTS W/ NUT & WASHER ALTERNATE COLUMN LOCATION

24" FOOTING TABLE (AS CONFIGURED IN PLAN)

	Ftg	Length @ 18"x24"	SF @ 24"	CF
١	Α	3'-6"	5.25	10.5
Ì	B	8'-2"	12 25	24.5

TOTAL VOL. OF CONC. = 35.0

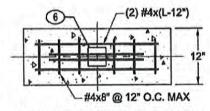


24" WIDE FOOTING PLAN VIEW

12" FOOTING TABLE (AS CONFIGURED IN PLAN)

Ftg	Length @ 18"x12"	SF @ 12"	CF
A	7'-0"	10.5	10.5
В	16'-4"	24.5	24.5

TOTAL VOL. OF CONC. = 35.0



12" WIDE FOOTING PLAN VIEW

DESIGN LOADS:

MIN. ROOF WIND LOAD MIN. ROOF DEAD LOAD LIVE LOAD ELIMINATED BY PANELS

SEISMIC:

SEISMIC GROUP 1 IMPORTANCE FACTOR, I = 1.0 SOILS SITE CLASS D

WIND:

3-SECOND GUST = 105 MPH NOMINAL SPEED = 81 MPH PRESSURE (0-30 FT) = 20 PSF IMPORTANCE FACTOR, I = 1.0 EXPOSURE "B" RISK CATEGORY I



NOT TO SCALE

LILLEY *ENGINEERING INC*

3x8 SOLAR PANEL CANOPY

PROJECT CLIENT DRAWING NO.

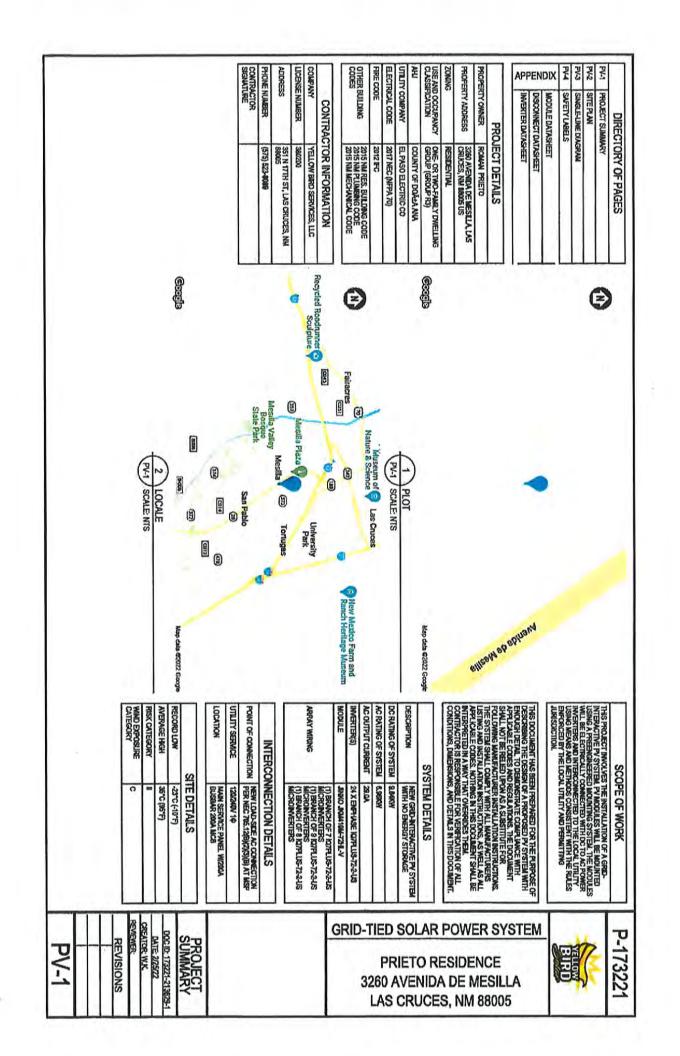
210407 YELLOWBIRD YELLOWBIRD

3260 AVENIDA DE MESILLA LAS CRUCES, NM

REV. NO. DRAWN BY DATE

DL 03/07/22

5160 CALLE BELLISIMA LAS CRUCES, NM 68011 (575) 521-0006





SCALE 1"=30"

(N) AC COMBINER, OUTDOOR, OUTPUT CIRCUIT CONDUCTORS SHALL BE RUN NENT CONDUCT OVER ROOF NO CLOSER THAN 1.5" ABOVE ROOF SURFACE (E) UTILUTY METER, OUTDOOR

 $\odot \odot \odot \odot$ (E) MAIN SERVICE PANEL (MSP), OUTDOOR (N) VISIBLE, LOCKWILE, READILY-ACCESSIBLE AC DISCONNECT LOCKIED WITHIN 10 FT OF UTILITY METER, OUTDOOR (E) GAS METER, OUTDOOR, NO NEW ELECTRICAL EQUIPMENT SHALL BE INSTALLED WITHIN 36 INCHES OF CENTER OF GAS METER OR RISER. (M) PROPOSED GROUND MOUNTED PHOTOVOLIAIC ARRAY, 24 PV MODULES (SILVER FRANE, CLEAR BACKSHEET), 15" TILT, 23" AZMJITH

(N) PRODUCTION METER, OUTDOOR

ALLENT CONDUIT FITTINGS SHALL BE LISTED AS WEATHERPROOF FITTINGS AND INSTALLED TO ENSURE A RAINTIGHT FIT, PER NEC 358.42. CONTRACTOR SHALL USE ONLY COMPONENTS LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY FOR THE INTENDED USE. CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL
EQUIPMENT, CHRIES, ADDITIONAL CONDUITS,
RACEMAYIS, AND OTHER ACCESSORIES NECESSARY
FOR A COMPLETE AND OPERATIONAL PV SYSTEM. WENT LIKELY TO BE WORKED UPON WHILE GIZED SHALL BE INSTALLED IN LOCATIONS THAT FY MINIMUM WORKING CLEARANCES PER NEC

GRID-TIED SOLAR POWER SYSTEM

PRIETO RESIDENCE 3260 AVENIDA DE MESILLA LAS CRUCES, NM 88005

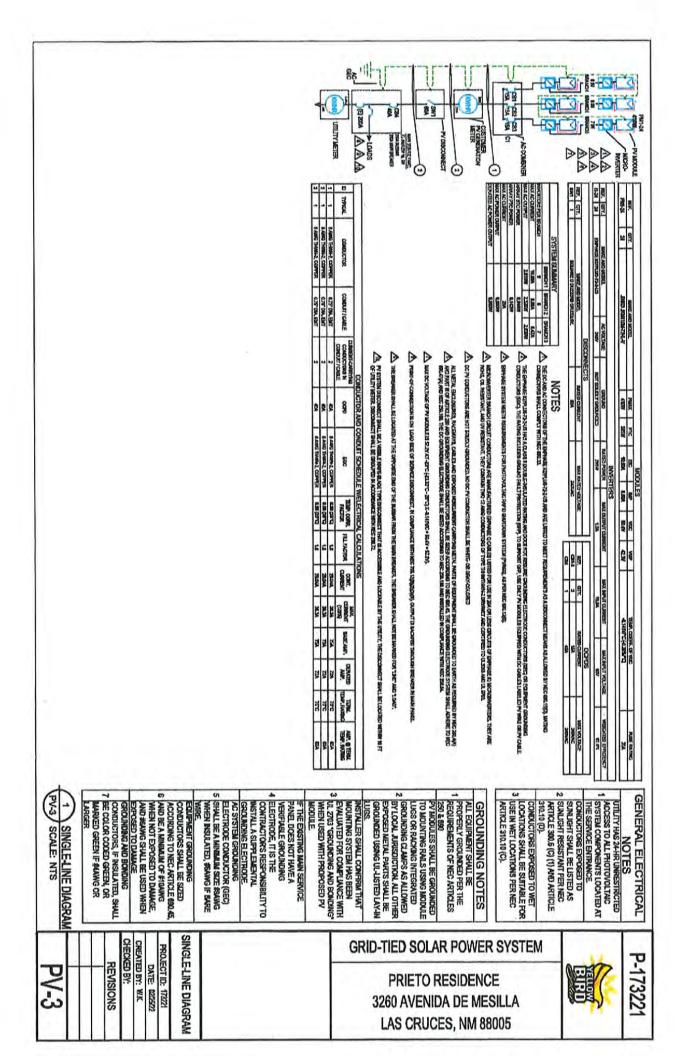


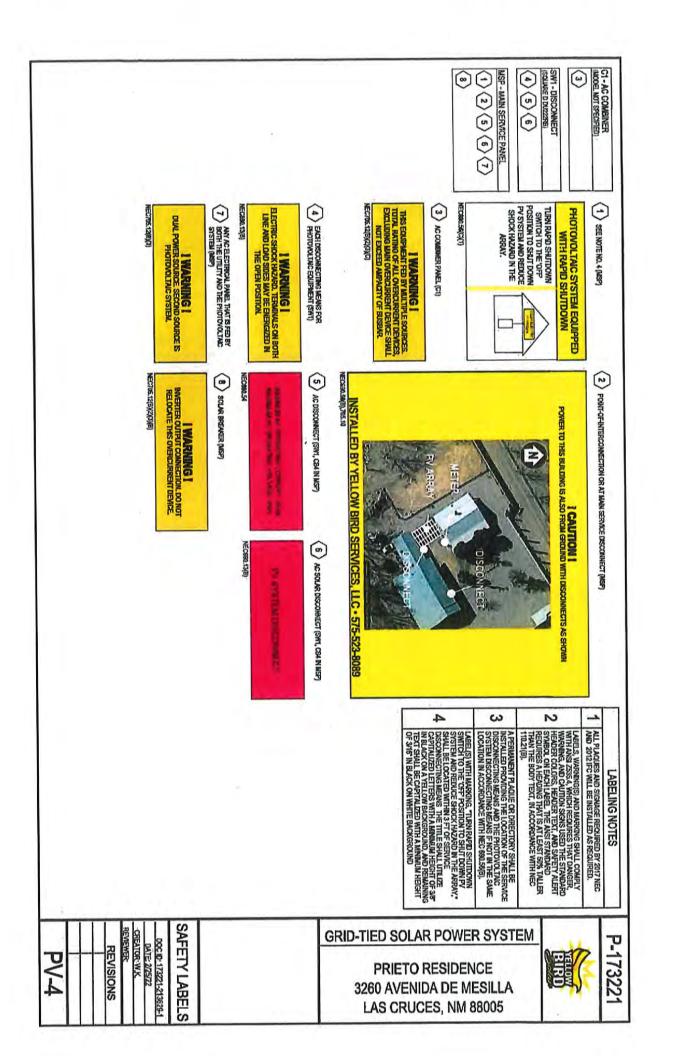
P-173221

GENERAL NOTES

DOC ID: 173221-213629 REVISIONS

SITE PLAN







Engineering Drawings

Electrical Performance & Temperature Dependence

Committee (GOM)

390-410 Watt Eagle HC 72M G2

WONO PERC HALF CELL MODULE



E

ă

(v) sector

220

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Mechanical Characteristics

All Type Menny Paper (Immod Cell (26.27.5.153.75 mm)

Nosi Halicels

2004-1902-40cm (79.05-39.55-1.57 lod)

Weight 225-1903-60cm (2005-60c)

Weight 425-1003-60cm (2005-60c)

Weight 425-1003-60cm (2005-60c)

1 1500V



KEY FEATURES

ance 5 busbor mono PERC half cell

Mocapules Saparland, STaparl WHQ Combiner

Aunction Bus Output Cables Bin Type

1.2mm, Anti-haffecton, Coeffing High Transmission, Low Iron, Remperied Glass Annothes Allemburn Alloy PVF Reted 12 Avid. (+) 1400 tranges 12 int. (+) 1400 tranges 12 int or Outbooking Length Type 1



High Voilage
UL and EC 1500V certified: lower BOS costs and yields better LCOE



Higher Module Power

Decrease in current lass yields higher module efficiency



P More shade talerance due to twin arrays Shade Tolerance



PID FREE
Rehitored cell prevents polenfiel induced degra



Strength and Durability
Certified for high snow (\$400Pa) and wind (2400 Pa) loads

LINEAR PERFORMANCE WARRANTY

 ISO80012000 Quality Standards
 ISO140912004 Emilitary Standards
 QHSNS10001 Occupational Health & Sefety Standards IECS1215. IECS1730 carified products
UL1703 carified products

10 Year Freduct Worranly + 25 Year Linear Power Worranly

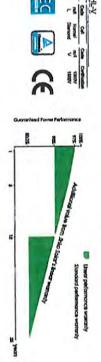
STC

Irradiance 1000W/m²

Cell Temperature 25°C

AM=15

NOCT: .: Irradiance 800W/m² [Ambient Temperature 20°C . AM=1.5 . Wind Speed Im/s



原

JKN/410N-7ZHL-V

Short-circuit Current (Isc) Module Efficiency STC (N) Maximum Power Voltage (Virp) Maximum Power Current (Imp) Module Type SPECIFICATIONS Operating Temperature (*C) Open-drait Voltage (Vod) partr Tolerance udmum Power (Prozo) penhan Coefficients of Voc penture Coefficients of Isc shaul Operating Cell Temporature (NOCT) imum Series Fuse Rating mum System Voltage vature Coefficients of Pmax ATM THIN 2484 7,544 4254 4264 10.12A 6.02A SIC NOCI Server of SIC NOCI 19.63% Reporter Puston police) A-TI-Z-HIDOHOA 705-45C DOM BIEN NOTE ACTS divizos dvico DON 315 ANNER -0.38%AC 1 ğ XME 10.48A 8.22A dwsoc dwsos ATK244SPP DON 215 名は SE NOT 10.50A 8.25A etowo growp NEW ACD STAN ATTA 7754

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS SEFORE USING THE PRODUCT.

9 Janus Stor Co., Ltd. All fighat pagared. Specifications inclosed in this estations are subject to change without solber.

JAMES 94-1016-172-17-VA-1-US

Product data sheet Characteristics

DU222RB SWITCH NOT FUSIBLE GD 240V 60A 2P NEMA3R

chard availability: Stock - Normally stocked in distribution like



Price*: 353.00 USD

5	
5	Substance 1
	California proposition 65
MX	Offer Sustainability
	Country of origin
<	Returnability
4.8500000000000004	Package weight(Lbs)
3	Nier, of units in plug.
00785901491491	
DEIA	Diacount Schedula
00106 - D & DU SW, NEDWAR, 30-200A	
	Ordering and shipping detalls
General duty	Duty Rating
Luge	Electrical Comnection
22	Number of Poles
Surface	Mounting Type
ni None	Factory Installed Neutral
	Disconnect Type
NEWAGR	Enclosium Rating
UL folked	Cartifications
60A	Line Rated Current
Single Throw Safety Switch	
-	
1	P

ontractual warranty

187

2

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Ps C

Enphase IQ 7 and IQ 7+

TO Microsophio

Microinverters

dramatically simplify the installation process while achieving the highest system efficiency. Enphase IQ 7 Micro* and Enphase IQ 7+ Micro* The high-powered smart grid-ready

Enlighten* monitoring and analysis software, IQ 7+ Microinverters integrate with the Enphase IQ Envoy™, Enphase IQ Battery™, and the Enphase Part of the Enphase IQ System, the IQ 7 and

undergo over a million hours of power-on testing, enabling Enphase to provide an Industry-leading standards set forth by previous generations and IQ Series Microinverters extend the reliability warranty of up to 25 years.



Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Productive and Reliable

- Optimized for high powered 60-pell and 72-pell* modules
- Class II double-insulated enclosure More than a million hours of testing
- ULlistod

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid reculrements
- Configurable for varying grid profiles
- Meets C4 Rule 21 (UL 1747-SA)





To learn more about Enphase offerings, visit enphase.com



Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)	107-60-2-115 - 107-40-E-05	107-40-E-05	IQ7PLUS-72-2	IQ7PLUS-72-2-US / IQ7PLUS-72-B-US
Module compatibility	50-cell PV modules only	ules only	60-cell and 72-c	60-cell and 72-cell PV modules
Maximum input DC voltage	48 V		409	
Peak power tracking voltage	27 V-37 V		27V-45V	
Operating range	15V-48V		A 09-A 91	
Min/Max start voltage	22 V / 48 V		22 V / 60 V	
Max DC short circuit current (module Isc)	154		15 A	
Overvailage class DC part	=		==	
DC port backfeed current	OA		DA	
PV array configuration	1 x 1 ungrounds	1 x 1 ungrounded array, No additional DC side protection required AC side protection requires may 704 per branch circuit.	nal DC side protec	tion required:
OUTPUT DATA (AC)	IQ 7 Microinvarter	rter	10 7+ Micromvertor	wertor
Peak output power	250 VA		295 VA	
Maximum continuous output power	240 VA		290 VA	
Nominal (L-L) voltage/range*	240 V / 211-264 V	208 V / 183-229 V	240V/	208 V / 183-229 V
Maximum continuous output current	1.0 A (240 V)	1,15 A (208 V)	1.21 A (240 V)	1,39 A (208 V)
Nominal frequency	2H G3		50 Hz	
Extended frequency range	47-68 Hz		47-68 Hz	
AC short circuit fault ourrent over 3 cycles	S.B Arms		S.B.Arms	
Maximum units per 20 A (L-L) branch circuit?	16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)
Overvoltage class AC port	E		E	
AC port-backdeed current	DA		P	
Power factor setting	1.0		1.0	
Power factor (adjustable)	- Burp	0.85 lagging	ing	0.85 lagging
EFFICIENCE	Anhyel	A GRAD	A.0476	Gran A
CEC weighted efficiency	9702	970%	970%	97.0 %
MECHANICAL DATA				
Ambient temperature range	-48°C to 465°C	dunation		
Connector type (107-60-2-US & 107PLUS-72-2-US)	MC4 (or Amphenol H4 U)	MC4 (or Amphenol H4 UTX with additional Q-DCC-5 adapter)	ditional Q-DCC-5:	adapter)
Connector type (107-61-8-US & IO7FLUS-72-8-US)	Friends Pv2 (M Adaptors for mo - Pv2 to MC4: or - Pv2 to UTX: or	Friends PV2 (MC4 intermateable). Adaptors for modules with MC4 or UTX connectors: - PV2 to MC4 order ECA-520-525 - PV2 to UTX coder ECA-520-525	UTX connectors:	
Dimensions (WxHxD)	212 mm x 175 n	212 mm x 175 mm x 30,2 mm (without bracket)	outbracket)	
Weight	1291 BE 7 BY ROT	The state of the s		
Smirgued for wet invaling	Vet	Contract Carlo		
Delinited desire	ena ena			
Fallulon degree	FUS			
Enclosure	Class II double-	Class II double-insulated, corroation resistant polymeric enclosure NEMA Tune 6.7 purident	resistant polyme	ric enclosure
FEATURES				
Communication	Power Line Con	Power Line Communication (PLC)		
Monitoring	Enlighten Mana	Enlighten Manager and MyEnlighten monitoring options.	a momitoring optic	ons.
	Both options re	Both options require installation of an Enphase IQ Envoy.	an Enphase IQ En	voy.
Disconnecting means	The AC and DC	The AC and DC connectors have be disconnect required by NEC 690.	en evaluated and	The AC and DC connectors have been evaluated and approved by UL for use as the load-breek disconnect required by NEC 690.
Compliance	CA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/1EER	1741-SA) 741/1EEE1S47, FCC	Part 15 Class B. I	DA Rule 21 (UL 1741-5A) UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-DU03 Class B,
	This product is NEO-2017 secti	2 NC, 107,1-01 UL Listed as PV Ray on 690 12 and C22.	old Shut Down Equ 1-2015 Rule 64-21	-MANU-SA-C422,2 NO., 107.) 471 This preduct is ULL listed as PV Rapid Sturt Down Equipment and conforms with NEO-2014 and NEO-2017 section 690,12 and C22,1-2015 Rule 64-218 Rapid Shutabwn of PV Systems, for AC

. "As endoced DCMC min, See the compatibility calculator at <u>Historicanass conductations and health of</u> 2 Norman with the proof can be extended by end morning if the calculation of the

To learn more about Enphase offerings, visit enphase.com

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ACTION FORM

AGENDA DATE

PZHAC: April 04, 2022,

BOT:

ITEM: PZHAC Case #061368 – 2305 Calle De Colon, submitted by Gerard Nevarez to coat exterior of house with elastomeric and clear coat wood on gate, no changes in colors. Zoned Historic Residential (HR)

BACKGROUND AND ANALYSIS: This case was reviewed by the Architectural Styles Committee (ASC) and had no issues moving it forward

Gerard Nevarez is proposing to coat exterior of house with elastomeric no change to house exterior color and clear coat wood on gate, no changes in colors

IMPACT:

- The PZHAC has jurisdiction to recommend approval of the applicant's request for approval of this request to the BOT.
- The applicant has the authority to make an application request to the PZHAC and BOT.
- Due process was provided to the applicant.

Specific findings of fact:

• The proposed work is on applicant's property and not in Town of Mesilla right-of-way.

ALTERNATIVES:

The Planning, Zoning and Historical Appropriateness Commission (PZHAC) may:

- 1. Recommend approval of this case with findings stated above.
- 2. Recommend approval of this case with findings stated above and conditions.
- 3. Deny the application.

DEPARTMENT RECOMMENDATIONS:

SUPPORTING INFORMATION:

- Application
- Plans

TOWN OF MESILLA ZONING APPROVAL

OFFICIAL USE ONLY: Case #061368 Fee \$129,50

PERMISSION TO CONDUCT WORK OR

OBTAIN A COMMERCIAL/RESIDENTIAL BUILDING PERMIT FROM CID

Reun \$ 19.50

CASE NO	ZONE:	CODE:	NM 88046 (575) 524-3262 ext. 104 APPLICATION DATE:	
	1-1		EHE 4.10 2020	
rerard 1	Vevarez		513 642 3938	
Name of Property Owner	22 00	01/1	Property Owner's Telephone Number	1
FO BOX 111	11/6	5/1/4	State Zip Code	-
Property Owner's Mailing	- 70 1	City	State Zip Code	
Property Owner's E-mail		com		
1 - C Wher's Lyman	use / March	1 100	6 Claude Dove Dr.	
Contractor's Name & Ad	dress (If hone, indicate Se	elf)	o Clande Deve Dr.	
575 640.	0713	,		
Contractor's Telephone	Number	Contractor's Tax II	Number Contractor's License Number	
	ork: 2305(2. 110 al	Colon	
Address of Proposed Wo	ork: 9300 (alle de	CO1070	
Description of Proposed	Work: COUTE	xterio,	of house with	
elastom	erico No	change	from Current 1	ous.
exterior	Color C	lead	eact on ward go	tex
80/VI)	Daniel	10.00	03.18.22	0
Estimated Cost	Signature of Applic	ant	Date	
		9		
Signature of property ov	vner: Om	you s		
With the exception of ac before issuance of a zor	dministrative approvals, a ning permit. Plan sheets	all permit requests are to be no larger	must undergo a review process from staff, PZHAC a han 11 x 17 inches or shall be submitted electronical	nd/or BOT ly.
	F	OR OFFICIAL	USE ONLY	
PZHAC 🗆	Administrative Approval		BOT	
	Approved Date:		☐ Disapproved Date:	
	Disapproved Date:		□ Approved with Conditions	
	Approved with conditions			
	QUIRED: YES		PROVAL REQUIRED:YESNO	
CID PERMIT/INSPECTI	ON REQUIRED:Y	ESNO _	SEE CONDITIONS	
CONDITIONS:				
			THE P. LEWIS CO., LANSING, MICH.	
PERMISSION ISSUED	/DENIED BY:		ISSUE DATE:	
	LL INCLUDE ALL OF TH		A CANADA MANAMATAN AND AND AND AND AND AND AND AND AND A	o one a sice
Plot plan with	legal description to show	w existing structur	es, adjoining streets, driveway(s), improvements & ided through the Town of Mesilla or that the lot ha	setbacks s been in
	ill show that the lot was to February 1972.	LEGALLI SUDDIN	ded unough the fown of westild of that the lot he	.5 20011 11
	imensions and details.			
. Foundation plan	with details.	rancosta		
	ing rooms, their uses and	dimensions.		
Cross section o Roof and floor f				
	ccess to the property.			
Drainage plan.			aleda and German de Chambrida and Andrea	
) Details of archit	ectural style and color sch	neme (checklist incl	uded for Historical zones) – diagrams and elevations.	t from the
		septic tank permi	; proof of water service (well permit or statemen	t from the
	oviding water services).			
	ocess to the property.	ed by the City Code	or Community Development Department (See other s	ide.)
. Other information	in as necessary or require	od by the Oity Code	or community parademan population (see para)	

Gerard Nevarez

Layer Visibility:

- **✓** Roads
- ☐ City Limits
- ☐ MLS Zones
- Address Labels
- 2014 Aerial Photo
- Parcels



ACCOUNTNUMBER:	R0400572	PARCELNUMBER:	4006138208035
OWNERNAME:	NEVAREZ GERARD R	MAILADDR1:	PO BOX 1102
CITY:	MESILLA	STATE:	NM
ZIP:	88046-1102	LOT:	
BLOCK:		SUBNAME:	
TRS:	23S 1E 36	SITUSADDRS:	2305 CALLE DE COLON
TOTALACRES:	0		

Google Maps 2305 Calle De Colon



Imagery @2022 Maxar Technologies, U.S. Geological Survey, Map data @2022 Google 50 ft



2305 Calle De Colon

Building







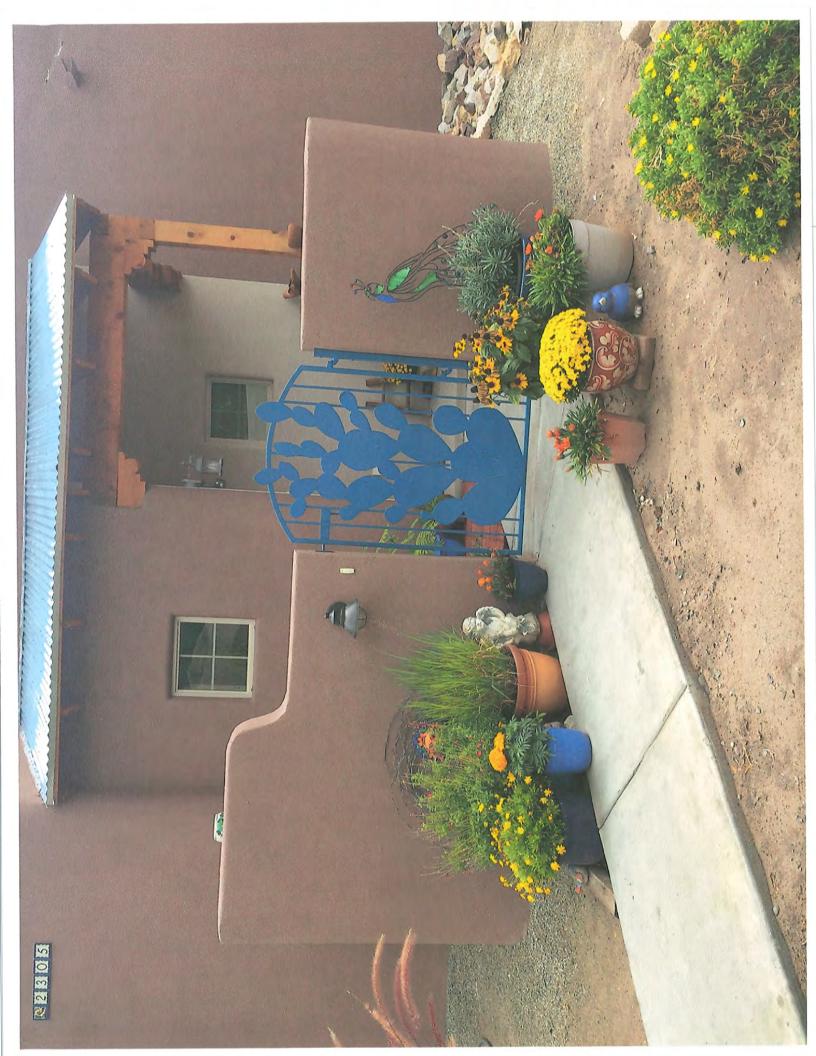






2305 Calle De Colon, Las Cruces, NM 88005

Photos



ACTION FORM

AGENDA DATE

PZHAC: April 04, 2022,

BOT:

ITEM: PZHAC Case #061370 – 2795 Calle De Sur, submitted by DJ Walker Construction (Jill Kerr New property owner) to remove existing roofing, inspect and replace decking as needed. Install new single ply membrane to manufactures specifications. Zoned: Residential Agriculture (RA)

BACKGROUND AND ANALYSIS: This case was not reviewed by the Architectural Styles Committee (ASC) due to zoning area. This project was recently passed by the PZHAC Commission but due to new property owner and change of project marital new application was submitted

DJ Walker Construction to remove existing roofing, inspect and replace decking as needed. Install new single ply membrane to manufactures specifications. **Zoned: Residential Agriculture (RA)**

IMPACT:

- The PZHAC has jurisdiction to recommend approval of the applicant's request for approval of this request to the BOT.
- The applicant has the authority to make an application request to the PZHAC and BOT.
- Due process was provided to the applicant.

Specific findings of fact:

• The proposed work is on applicant's property and not in Town of Mesilla right-of-way.

ALTERNATIVES:

The Planning, Zoning and Historical Appropriateness Commission (PZHAC) may:

- 1. Recommend approval of this case with findings stated above.
- 2. Recommend approval of this case with findings stated above and conditions.
- 3. Deny the application.

DEPARTMENT RECOMMENDATIONS:

SUPPORTING INFORMATION:

- Application
- Plans

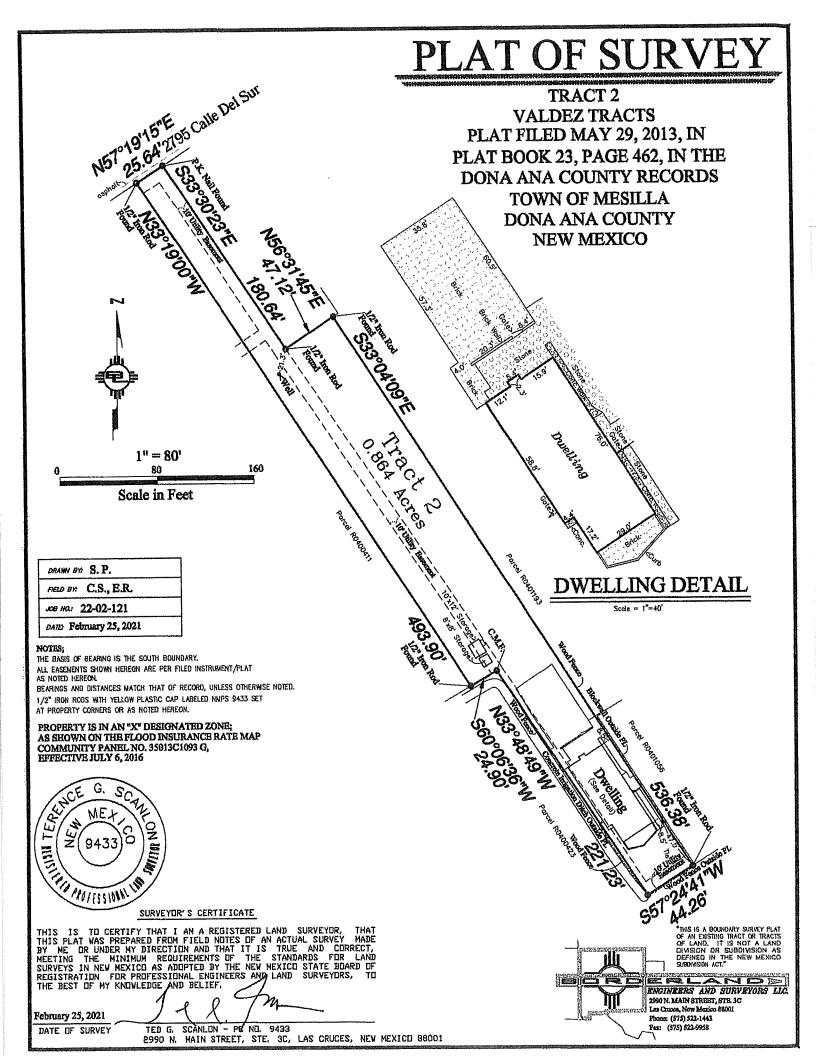
TOWN OF MESILLA ZONING APPROVAL

OFFICIAL USE ONLY: Case # 06/370 Fee \$ 95,00

Fec 50,00

PERMISSION TO CONDUCT WORK OR OBTAIN A COMMERCIAL/RESIDENTIAL BUILDING PERMIT FROM CID

2231 Avenida de Mesilla, P.O. Box 10, Mesilla, NM 88046 (575) 524-3262 ext. 104 06/370zone: RA CODE: RR APPLICATION DATE: CASE NO. 919-360-Property Owner's Telephone Number Mesilla City Property Owner's Mailing Address 11/15GERENE KERTO Property Owner's E-mail Address 27-0098917 575 -644-0049 Contractor's License Number Contractor's Tax ID Number Contractor's Telephone Number Address of Proposed Work: Description of Proposed Work: Signature of Applicant Date **Estimated Cost** Signature of property owner: With the exception of administrative approvals, all permit requests must undergo a review process from staff, PZHAC and/or BOT before issuance of a zoning permit. Plan sheets are to be no larger than 11 x 17 inches or shall be submitted electronically. FOR OFFICIAL USE ONLY □ Approved Date: □ Administrative Approval BOT **PZHAC** □ Disapproved Date: □ Approved Date: _ □ Approved with Conditions □ Disapproved Date: □ Approved with conditions PZHAC APPROVAL REQUIRED: ___YES ___NO BOT APPROVAL REQUIRED: ___YES ___NO CID PERMIT/INSPECTION REQUIRED: YES ____NO ____SEE CONDITIONS CONDITIONS: ISSUE DATE: PERMISSION ISSUED/DENIED BY: _ THIS APPLICATION SHALL INCLUDE ALL OF THE FOLLOWING: Plot plan with legal description to show existing structures, adjoining streets, driveway(s), improvements & setbacks. Verification shall show that the lot was LEGALLY subdivided through the Town of Mesilla or that the lot has been in existence prior to February 1972. Site Plan with dimensions and details. Foundation plan with details. Floor plan showing rooms, their uses and dimensions. Cross section of walls Roof and floor framing plan Proof of legal access to the property. Drainage plan. Details of architectural style and color scheme (checklist included for Historical zones) - diagrams and elevations. Proof of sewer service or a copy of septic tank permit; proof of water service (well permit or statement from the Public Utility providing water services). Proof of legal access to the property. Other information as necessary or required by the City Code or Community Development Department (See other side.)



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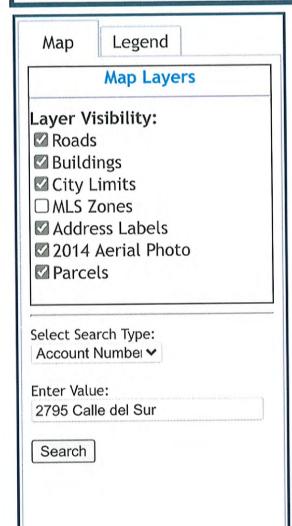
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Doña Ana County, NM Parcel Map

Leticia Duarte Benavidez, County Assessor







Proposal

recommendation to remove all roofing to exposed decking and install a new 3 Ply Built Up Roof (BUR). I have also given an

option on this proposal for an upgrade to a Energy Star Rated Single Ply Roofing System.

D.J. Walker Construction LLC License #360618 Office(575-644-0049) Darrell 575-644-0049 518 N. 17th Street Las Cruces NM 88005

Customer:

Jill Kerr

Address:

Contact:

Inspection

2795 Calle Del Sur

Mesilia NM



Darrell Walker

3/22/2022

2022016

Date:

W.O.#:

Estimator

Phone

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The roof on this residence is a 3 Tab Asphalt Shingle. The shingles are aged and near the end of the expected time. The pitch on the roof is not consistent with the West side at 2.5:12 and the East side at 1.5:12. That being time. The pitch on the roof is not consistent with the West side at 2.5:12 and the East side at 1.5:12. That being time.	
time. The pitch on the root is not consistent with the visal not allow a shingle to be installed on any slope less than code and Manufacturer Installation Requirement will not allow a shingle to be installed on any slope less than code and Manufacturer Installation (Section 2016). I have	21227 1714

Scope of Work	Re-Roof Section of Single Family Dwelling	Quantity	Line Total
Product	Detailed Description	30.52 SQ	12,208.00
1.00	Roof		included
Permit	Mesilla NM approval and permitting with State CID office		
Preparation	Remove all existing shingles system down to deck. Please note that if additional layer of roofing are present that will be additional charges for labor and dump fees.	4-8 tons	1,068.20
Decking	Inspect decking for water damage. I decking needs to be replaced it will be billed a \$2.00 per Square foot. Decking inspection by State CID office is required		TBD
Drip Edge	26 GA 2.5" X 2.5" metal drip edge not painted	2SO LF	Included
	Existing HVAC unit is on a curb this will remain in place	1 EA	Included
Product 00 Permit Preparation Decking Drip Edge A/C Penetrations		4 EA	Included
	Replace plumbing boots	2 EA	Included
Name - 1 and 10	Reseal JV & stack vents	2 EA	Included
Vents	Detach and rewet existing Turbine vents	5 EA	1,000.00
Skylights	Remove and replace 5-2'X4' Self flashing dual dome (cloud type)	1 EA	Included
Base	GAF 75# base sheet manually attached	1 EA	Included
Ply Sheet	GAF Gafglass ply 4 sheet (mop application)	30.52 SQ	Included
Cap Sheet	GAF 90# Granulated Cap Sheet (mop application)		
	Optional installation of a Energy Star Rated White DuroLast 40 Mil Single Ply Membrane		
Option 1	This option has a 15 Year Manufacturers Warranty. Add this amount to the total for this option	Accepted	2,510.00
	Additional amount to be paid by Buyer per conversatoin with realtor Jaret Lane		***************************************
Warranty	1 1 2 2 2 Year Manufacturers Material Waranty	sub total	16.786.20
	Customer Signature X S. 14m 3/23/22 Company Representative X	tax	1,142.08
	Customer Signature X	total	17,928.28
	Company Representative X	deposit	1,720.20
	₹or (total	:

ARRITEATION: All disputes between the parties ansing out of or related to any agreement term, or any breach or alleged breach of this contract will dedected by arbitration. No arbitration proceeding under this provision shall include any person or entity not a party to this agreement except by prior written consent. This written consent must specifically refer to this agreement's parties arbitration provision shall include any person or entity not a party to this agreement except by prior written consent. This written consent must specifically refer to this agreement's parties are all the parties are all this prior to the parties and matter described in the consent.

WARRANTY. Installation Warranties require that inspections are a completed on an annual basis. All Augustic based roofing materials require maintenance at least every 2 years to maintain you installation warranty. We offer free inspections annually bowever any required maintenance will by at the expense of the home owner.

Phone 575-644-0049, email: djwalkerconstruction@gmail.com www.aplusexteriorsandroofing.com

Proposal

D.J. Walker Construction LLC License #360618 Office(575-644-0049) Darrell 575-644-0049 518 N. 17th Street Las Cruces NM 88005

Customer:

Jill Kerr

Address:

2795 Calle Del Sur

Mesilla NM

Jill 1-919-360-3033

Date: W.O. #: 3/22/2022 2022016

Estimator

Darrell Walker 575-644-0049





Contact: The roof on this residence is a 3 Tab Asphalt Shingle. The shingles are aged and near the end of the expected roof life at this time. The pitch on the roof is not consistent with the West side at 2.5:12 and the East side at 1.5:12. That being said the current code and Manufacturer Installation Requirement will not allow a shingle to be installed on any slope less than 2:12. It is our recommendation to remove all roofing to exposed decking and install a new 3 Ply Built Up Roof (BUR). I have also given an inspection option on this proposal for an upgrade to a Energy Star Rated Single Ply Roofing System.

Scope of Work	Re-Roof Section of Single Family Dwelling		Line Total
Product	Detailed Description	Quantity	
1.00	Roof	30.52 SQ	12,208.00
Permit	Mesilla NM approval and permitting with 5tate CID office		Included
Preparation	Remove all existing shingles system down to deck. Pleose note that if additianal layer of roofing are present that will be additional charges for labor and dump fees.	4-8 tons	1,068.20
Decking	Inspect decking for water damage. I decking needs to be replaced it will be billed a \$2.00 per Square foot. Decking inspection by State CID office is required		TBD
Drip Edge	26 GA 2.5" X 2.5" metal drip edge not painted	250 LF	Included
A/C	Existing HVAC unit is on a curb this will remain in place	1 EA	Included
.,, -		4 EA	Included
Penetrations	Replace plumbing boots	2 EA	Included
	Reseal JV & stack vents	2 EA	Included
Vents	Detach and rewet existing Turbine vents Remove and replace 5-2'X4' Self flashing dual dome (cloud type)	5 EA	1,000.00
Skylights	GAF 75# base sheet manually attached	1 EA	Included
Base		1 EA	Included
Ply Sheet	GAF Gafglass ply 4 sheet (mop application)	30.52 SQ	Included
Cap Sheet	GAF 90# Granulated Cap Sheet (mop application)		
	Optional installation of a Energy Star Rated White DuroLast 40 Mil Single Ply Membrane		
Option 1	This option has a 15 Year Manufacturers Warranty. Add this amount to the total for this option	Accepted	2,510.00
	Additional amount to be paid by Buyer per conversatoin with realtor Jaret Lane		
Warranty	3 Year labor along with a 20 Year Monufacturers Material Waronty	sub total	16,786.20
	Customer Signature X AUS. 1/4w 3/22	tax	1,142.08
	Customer Signature X	total	17,928.28
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ARBITRATION: All disputes between the paries assing out of or related to any agreement term, or any breach or alleged breach of this contract will de decided by arbitration. No arbitration proceeding under this processing under the parties of the processing under the parties and under another this processing involving an additional person or entity is limited to the parties and matter described in the consent.

WARRANTY. Installation Warranties require that inspections are a sampleted on an annual pasts. All Asphalt based roofing materials require maintenance of least every 2 years to maintain you installation warranty. We offer free inspections annually however any required maintenance will by at the expense of the home dancer.

Phone 575-644-0049, email: djwalkerconstruction@gmail.com www.aplusexteriorsandroofing.com

DURO-LAST® 40-MIL MEMBRANE

Advantages:

Duro-Last® 40-Mil (DL40) is an excellent choice for projects requiring a long lasting, energy efficient roofing membrane. The membrane is available in custom-fabricated sections or as roll goods. A complete line of custom-fabricated accessories and parapets are available for use with DL40.

Description:

DL40 is composed of PVC film laminated to both sides of a reinforcement fabric (weft-inserted scrim).

Duro-Last membranes must not be used with Duro-Last EV membranes.

PVC Film – Proprietary thermoplastic PVC formulation of resins, plasticizers, stabilizers, biocides, flame retardants, and U.V. absorbents.

 PVC film above weft-inserted scrim – 17 mil, nominal

Weft-Inserted Scrim – An 18 x 14 polyester fabric construction with weft insertion, composed of 840 x 1000 denier threads, provides superior tear and puncture resistance. The polyester thread is treated to prevent wicking.

Total Thickness - 40 mil, nominal.

Weight - 0.22 lb. per square foot.

Colors - White, tan, gray and dark gray.

R-Value – 0.1 R (0.1 ft².°F·hr/Btu).

Available Configurations:

Custom-fabricated Sections — DL40 is available in custom-fabricated sections as listed within the Ordering and Estimating section on the Duro-Last website.

Roll Dimensions¹

Width	Length (max.)	Roll Area	Approx. Weight	Approx. Coverage²
64 inches	150 ft.	800 sq. ft.	176 lb.	725 sq. ft.
64 inches	100 ft.	534 sq. ft.	118 lb.	483 sq. ft.
64 inches	50 ft.	267 sq. ft.	59 lb.	241 sq. ft.
32 inches	100 ft.	267 sq. ft.	59 lb.	217 sq. ft.
12 inches	100 ft.	100 sq. ft.	22 lb.	N/A
8 inches	100 ft.	67 sq. ft.	15 lb.	N/A

¹ Custom rolls of maximum 64 in. by 240 ft. may be produced upon request.

Energy Efficiency:

White DL40 is an excellent product for complying with California Title 24, LEED® and other energy efficiency programs requiring the use of a highly reflective roof membrane.



Cool Roof Rating Council (CRRC)

Cool Rool Rating Council (Cities)									
	CRRC ID	Solar Reflectance		Thermal Emittance		Solar Reflective Index (SRI)			
		Initial	3-уг	Initial	3-yr	Initial	3-уг		
White	0610- 0001a	0.86	0.74	0.89	0.89	108	91		
Tan	0610- 0005	0.39	0.33	0.89	0.89	43	35		
Gray	0610- 0004	0.47	0.40	0.89	0.89	54	45		
Dark Gray	0610- 0006	0.26	0.25	0.87	0.89	25	25		

LEED & LEED-EB Credits – White DL40 alone can obtain 1 credit in either U.S. Green Building Council's LEED or LEED-EB programs. In combination with other design criteria the membrane may help attain other credits.

LEED Credit Category	Duro-Last Attribute
Sustainable Sites Credit 7.2 Heat Island Effect: Roof	Solar Reflective Index (SRI) = 111

LEED-EB Credit Category	Duro-Last Attribute
Sustainable Sites Credit 6.2 Heat Island Effect: Roof	Thermal Emittance = 0.87

Warranty:

The following warranties are available for projects utilizing DL40. Contact Duro-Last for warranty details.

	Available Warranties
Supreme	15-Year NDL Warranty
Ultra	15-Year NDL High Wind Warranty ¹
Basic	15-Year NDL Warranty ¹
Residential	15-Year Residential Material Limited Warranty ¹

¹ Excludes consequential damage coverage

² Assuming 6-inch overlap.

DURO-LAST® 40-MIL MEMBRANE

Codes and Standards:

Underwriters Laboratories (US & Canada), UL Evaluation Report (ER10128), FM Approvals, Canadian Construction Materials Centre (CCMC 13299-L), State of Florida, Miami-Dade County, Texas Department of Insurance.

Storage:

Store rolls lengthwise on pallets. Use tarps to keep rolls dry.

Membrane Attachment:

Mechanically Fastened – DL40 may be mechanically fastened to a variety of roof deck and wall materials. An appropriate slip sheet, insulation or cover board may be required. Refer to the Duro-Last Mechanically Fastened Roofing System Specification for custom-fabricated system requirements. If using roll goods, refer to the Duro-Last Roll Good Mechanically Fastened Roofing System Specification.

Induction welded – Induction welding may be used to attach DL40. An appropriate slip sheet, insulation or cover board may be required. Refer to the Duro-Bond[®] Induction Weld Roofing System Specification for system requirements.

Adhered – DL40 may be adhered to a variety of properly prepared roof decks, walls, cover boards and insulations. Refer to the Adhered Roofing System Specification for system requirements.

Physical Properties:

DL40 has been subjected to the tests required by ASTM D4434 "Standard Specification for Poly (Vinyl Chloride) Sheet Roofing" and has been classified as a Type IV, internally reinforced sheet. The results of each test are listed below. ASTM's Overall Thickness requirements for the membrane are plus or minus 10% (nominal) of the listed Typical Value.

Physical Property	Test Method	ASTM D4434 Requirement	Result	Typical Value
Overall Thickness	ASTM D751	≥ 0.036 and ≤ 0.044 in. (≥ 36 and ≤ 44 mil)	PASS	0.040 in. (40 mil), nominal
Thickness Over Scrim	ASTM D7635	≥ 0.016 in.	PASS	0.017 in. (17 mil)
Breaking Strength ¹	ASTM D751 Grab Method	≥ 275 lbf./in.	PASS	441 x 355 lbf./in.
Elongation ¹	ASTM D751 Grab Method	≥ 25%	PASS	28% x 31%
Seam Strength	ASTM D751 Grab Method	≥ 330 lbf. (75% of Breaking Strength.)	PASS	360 lbf.
Tear Strength ¹	ASTM D751 Procedure B	≥ 90 lbf.	PASS	125 x 136 lbf.
Low Temp. Bend	ASTM D2136	Must pass at -40° F.	PASS	PAS\$
Heat Aging	ASTM D3045	Conditioned for 56 days in oven maintained at 176° F.	PASS	PASS
Accelerated Aging	ASTM G155	10,000 hours total test time. Irradiance level of 0.35 W/m²-340nm. Cycle: 102 minutes light, 18 minutes light + H₂0 spray, 63±2.5° C black panel, 30±5% RH		PASS
Dimensional Stability ¹	ASTM D1204	Conditioned for 6 hours in oven maintained at 176° F. Allowable change: ≤ 0.5%	PASS	-0.45% x -0.40%
Water Absorption	ASTM D570	Immersed in water at 158° F for 168 hours. Allowable weight change: ≤ 3%	PASS	2.6%
Static Puncture	ASTM D5602	≥ 33 lbf.	PASS	56 lbf.
Dynamic Puncture	ASTM D5635	≥ 14.7 ft-lbf. (20 J)	PASS	≥ 14.7 ft-lbf. (20 J)

¹ Typical values are shown for both machine and cross machine directions. The machine direction results are listed first.

Additional Tests

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Fungi Resistance	ASTM G21	No Sustained Growth or Discoloration
Moisture Vapor Transmission	ASTM E96, Proc. B, Method A	< 0.35 U.S. perms













SECTION 3 - - - IMPLEMENTATION

ROOF PREPARATION

RECOVER - Built-up Roofs (BUR)

- a. If the BUR is gravel surfaced and the pea gravel or crushed stone is 1/4 3/8-inch (6 10 mm) in size, it must be leveled and maintained at 4 lb./ft² (20 kg/m²). A minimum 3/8-inch (10 mm) fan fold board, supplied by Duro-Last, approved recover board, or 1-inch (25 mm) thick insulation must be used to overlay the gravel.
- b. If the loose stone on an old BUR is vacuumed or swept, A minimum 3/8-inch (10 mm) fan fold board, supplied by Duro-Last, approved recover board, or 1-inch (25 mm) thick insulation must be used to overlay the existing system. CAUTION: Removing more than the loose gravel may affect the fire rating. Contact the Duro-Last Engineering Services Department for assistance regarding fire rated assemblies.
- c. If the BUR is a smooth or granular surfaced application, and is free of sharp edges and debris, it can be recovered with an approved slip sheet, although Duro-Last fan fold board is recommended.
- d. EPS insulation cannot be used over coal tar pitch or asphalt without a slip sheet between the coal tar pitch and the insulation as well as between the membrane and the insulation. Duro-Last underlayments are approved for direct application over aged coal tar pitch roofs.
- e. When roofing over asphalt or coal tar roofs (including tear-off), an approved separator sheet must be used. Asphalt-based products are incompatible with the Duro-Last roofing membrane. Note: Should the Duro-Last membrane become soiled with roofing asphalt, the affected membrane must be cleaned immediately using approved cleaners and procedures. If the asphalt cannot be properly cleaned from the membrane, the affected membrane must be removed and new membrane installed, or overlay the affected area with an approved slip sheet and new membrane. Extreme caution should be taken if you are doing a tear-off while installing the membrane.

RECOVER - Single-Ply Roofs

- a. The existing single-ply roofing membrane must be cut free from the entire roof perimeter, cut free around all penetrations, and cut in between fastener rows prior to the installation of the Duro-Last membrane. When reroofing after a tear-off, caution should be used to prevent the Duro-Last membrane from contacting incompatible materials. (See "Substrate Separation", page 4)
- b. If the existing system is mechanically fastened, there is often a problem with loose fasteners. Because of this problem, cut the membrane open and remove all loose fasteners before installing the slip sheet.
- c. If a PVC membrane has been installed directly over styrene insulation without a separation sheet, then the old membrane must be removed, damaged insulation replaced, and an approved slip sheet installed.
- d. If the existing membrane is ballasted and the Duro-Last membrane is to be mechanically fastened, it is necessary to do fastener pullout tests on the deck. Also, the type of insulation and its density needs to be determined to ensure that the insulation will meet the Duro-Last specification. (See "Substrate Separation", page 4). Be aware that if the existing insulation is "loose-laid" it must be fastened with an approved fastening pattern (See Detail 1020).

RECOVER - Metal Roof Recover/Retrofit

- a. The metal roof panel must be clean, smooth, and free of sharp edges and loose foreign material. Damaged areas and other factors affecting the installation of the Duro-Last roofing system must be repaired prior to the installation of the membrane.
- b. A metal roof panel must be separated from the Duro-Last membrane by using a recover board of at least 7/16-inch thick (11 mm) hardboard (gypsum), plywood, or oriented strand board (OSB) or 1-inch (25 mm) rigid insulation. When 1-inch rigid insulation is used, flute filler must be used and must consist of polyisocyanurate insulation. Note: According to International Building Code (IBC), the use of above-deck thermal insulation (including extruded or expanded EPS) is covered with an approved roof covering and

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- passes the tests of FM 4450 or UL 1256 when tested as an assembly. The gaps between the ribs of the metal and the insulation fill cannot exceed the recover board manufacturer's recommendation for spanability. Flute filler must be fastened as needed to hold the flute fill in place. (Note: Duro-Last fanfold may be used if the flutes are filled with no gaps exceeding 1/4-inch total in between metal ribs.)
- Insulation/recover board must be neatly fitted to the roof deck and its penetrations. Four by eight -feet (1.2 x 2.4 m) boards must be attached with a minimum of five fasteners/distribution plates. See details 1020 & 1030 found in the detail section of this manual for mechanical attachment of additional sizes of recovery boards. Gaps between insulation/recovery boards cannot exceed 1/4-inch (6 mm) in width. No more insulation/recovery board will be installed than can be covered with membrane and completed before the end of the day's work or before the onset of inclement weather. Duro-Last fasteners and plates as well as approved fastening patterns are required for attachment of all insulation/recover board. Contact the Duro-Last Engineering Services Department with any questions.
- d. High-density wood fiberboard is acceptable on metal building recovers when the building slope is at least 1-inch (25 mm) vertical for every 12-inches (305 mm) horizontal. High-density wood fiber will not be accepted as flute filler.
- Plywood is acceptable to recover metal roofs. The minimum thickness, if it is being used as recover board, shall be 7/16-inch (11 mm). Fasteners must penetrate through both the plywood and the existing metal roof.
- If plywood will be acting as the new substrate for membrane attachment, the plywood must be a minimum of 9/16-inch (14 mm) thick and a pull-test must be conducted on the new lumber to determine the proper lap spacing and attachment along the tab. Contact the local building authority to determine compliance of deck attachment to the building structure. Note: It is the responsibility of the contractor to ensure that the weight requirements of the building are not exceeded when installing additional materials over preengineered buildings.

NEW CONSTRUCTION

- a. All concrete surfaces must be troweled smooth. If the concrete surface is not smooth, a minimum 3/8-inch (10 mm) fan fold board, supplied by Duro-Last, is required.
- The roof deck or existing roof system must be clean, smooth, free of sharp edges, and loose foreign material. Damaged areas and other factors affecting the installation of the Duro-Last roofing system must be repaired prior to the installation of the membrane.
- c. A metal deck must be separated from the Duro-Last membrane by at least 7/16-inch (11 mm) hardboard (gypsum, plywood, or oriented strand board) or 1-inch (25 mm) rigid insulation. It is the responsibility of the contractor to ensure that the selected insulation is adequate to span the flutes of the deck. If it is not, the flutes must be filled with an approved insulation. See "Insulation Selection and Installation" for further details.
- d. All plywood surfaces must be smooth and free of all foreign material. Gaps between sheets of plywood should not exceed 1/4-inch (6 mm). Prior to the installation of the membrane an approved slip sheet or duct tape must be installed over any H-clips if they are used on any plywood decking.

INSTALLATION

WOOD NAILER

Wood nailers must be a #2 grade lumber, or better and must be fastened to the deck, wall or existing secured nailer in such a manner that they resist 180 lb. of force per linear foot (2,643 N/M) of nailer in any direction. Fasteners used to attach wood nailers must be spaced no greater than 18-inches (455 mm) apart. Wood nailers are required in any situation where 1-inch (25 mm) or greater of insulation is added to the roof perimeter edge. The top of the nailers must be flush with the top of the insulation. Wood nailers are not required at a change of plane such as the intersection between a parapet wall and the decking.

800-248-0280 9 of 12 www.duro-last.com

SPECIFICATION: MECHANICALLY FASTENED SYSTEMS

Duro-Last Engineering Services requires that for nailers and other lumber supports identified as ACQ or CA treated, only stainless steel fasteners be used. Additionally, for all new construction, untreated lumber should be used for nailers with standard e-coated fasteners. Further, treated lumber dating 2003 or earlier is acceptable for use with e-coated fasteners as lumber prior to 2003 of age is unlikely to contain the copper based treatments.

INSULATION SELECTION AND INSTALLATION

Insulation products must be neatly fitted to the roof deck and its penetrations. 4 x 8-feet (1.2 x 2.4 m) insulation boards must have a minimum of five fasteners/distribution plates installed per board. No gap should exceed 1/4-inch (6 mm) in width. No more insulation products should be installed than can be covered with membrane and completed before the end of the day's work or before the onset of inclement weather. Duro-Last fasteners and Duro-Last plates as well as approved fastening patterns are required for attachment of all insulation products.

The minimum compression characteristics of insulation products as determined by ASTM D-1621 will be as follows:

- Polyisocyanurate products: 20 psi (137.8 kPa)
- Fiberglass products: 16 psi (110.3 kPa)
- Extruded polystyrene products: 25 psi (172.3 kPa)
- Expanded polystyrene products: 15 psi (124.1 kPa) and 1.5 pcf (24 kg/m³) density (certified) and a minimum 1-inch (25 mm) thick.
- Expanded polystyrene products covered with or laminated to a hardboard facer: 12 psi (82.7 kPa) and 1.25 pcf (20 kg/m3) densities and a minimum of 1-inch (25 mm) thick.

PERIMETER MEMBRANE INSTALLATION

- a. The first fastening tab on all perimeter roof sections that have tabs parallel with the roof edge or parapet wall, must be between 24 36 inches (610 915 mm) from the edge or the wall. If the parapet wall is greater than 24-inches (610 mm) tall, the perimeter tab may be placed up to 63-inches (1.6 m) away from the roof edge when utilizing roof sections with maximum lap spacing of 60-inches (1.5 m) on center.
- b. When using roof sections with fastening tabs spaced 120-inches (3 m), the first tab along <u>all</u> perimeter roof edges must be located 24 36-inches (610 915 mm) from the edge. The second tab must be placed 84 96-inches (2130 2440 mm) from the edge. Parapet wall height does not change this requirement.
- c. On buildings with multiple roof levels, treat all roof edges as perimeter edges if they stand 3-feet (915 mm) or more above adjacent or surrounding roof areas.
- d. On buildings located in high wind zones (greater than 110 mph [177 km/h]) or on structures that are 40-feet (12 m) or taller, additional wind tabs and/or increased fastener density may be required. Contact the Duro-Last Engineering Services department for assistance.

MEMBRANE INSTALLATION

- a. The prefabricated roof section is unrolled and positioned on the deck to expose the first securement tab. The securement tab is mechanically fastened to the deck with approved fasteners and stress distribution plates (see "Fastener Selection and Deck Types", page 6). The roof section is then unfolded and pulled taut to remove any wrinkles exposing the second securement tab. This process is repeated until the entire roof section has been mechanically fastened to the deck, including all securement tabs and edges. The next section of roofing membrane is then positioned to provide a minimum 6-inches (152 mm) overlap. The above procedure is repeated for each roof section.
- b. The edge of the stress distribution plate must be installed flush with the outside edge of a fastening tab.
- c. The maximum fastener spacing is 18-inches (457 mm) on center in rows 60-inches (1.5 m) apart. For tab spacing greater than 60-inches (1.5 m), the maximum fastener spacing is 12-inches (305 mm) on center. (Refer to the Fastener Spacing Table, page 7.)

SPECIFICATION: MECHANICALLY FASTENED SYSTEMS

- d. When installing membrane, ensure that the appropriate side of the membrane is exposed to elements. For white and gray membrane, the smooth side should be exposed. On the tan membrane, it will be the embossed side of the membrane that should be exposed.
- e. If the membrane is attached to the support structure beneath the roof deck, special precautions must be taken. If the membrane is attached to a steel purlin structure, all fasteners must penetrate a minimum of 1-3/4-inch (44 mm) from the top of the purlin using Duro-Last purlin fasteners. If the membrane is being attached to a wood truss structure, all fasteners must penetrate a minimum of 1-inch (25 mm) from the top surface of the truss with approved Duro-Last fasteners.

HOT-AIR WELDING

- a. Position the membrane so that the top membrane overlaps the bottom membrane a minimum of 6-inches (152 mm). Ensure the welding area is dry, clean and free of foreign material.
- b. Weld the top membrane to the bottom membrane using a hand-held welder or an automatic welding machine, and silicone roller. A minimum 1-1/2-inch (38 mm) wide continuous weld is required.
- All field-welded seams must be inspected with a tack claw or similar tool (cotter key extractor), and all
 deficiencies repaired prior to inspection by Duro-Last.

FLASHINGS

- a. The Duro-Last membrane must not contact surfaces which maintain or exceed temperatures of 120 °F including all insulated chimney pipes, exhaust pipes, and combustible fuel pipes.
- b. All flashings must be terminated at a minimum of 8-inches (203 mm) above the roof surface.
- c. See "Mechanically Fastened" details section for installation references.

TWO WAY AIR VENT

- a. Install Duro-Last Two-Way Air Vents following these guidelines:
 - Install at a rate of one vent for every 1,000 ft² of deck area.
 - 2. Do not install the vents near drains or in valleys.
 - 3. Evenly space the vents across the roof area and center them between fastening tabs.
- It is the contractor's responsibility to ensure that adequate secondary drainage exists to prevent flooding during extreme weather when water could infiltrate the two-way vent.
- See Details 5020 for installation references.

ROOF DRAINS AND SCUPPERS

- a. Drain Assemblies with Clamping Rings
 - 1. All existing roofing materials must be removed from drain bowl and clamping ring.
 - 2. Use Duro-Caulk Plus between the membrane and clamping ring (1/2 tube minimum).
 - 3. After the Duro-Last membrane is properly installed onto the bowl and the clamping ring set in place, all bolts securing the ring must be installed to provide constant, even compression on the sealant. If bolts are broken or missing, replacements must be installed.

800-248-0280

SPECIFICATION: MECHANICALLY FASTENED SYSTEMS

b. Duro-Last Drain Boots

- 1. If the Duro-Last drain boot is to be used, apply one-half (1/2) tube of sealant minimum to the outside of the drain boot and insert it into the drain.
- 2. Install composite compression drain rings as low into the drain as possible.
- c. See Details 2011, 2020, 2021, 2025, 2030, 2041, 2050, 2060, 2061, 2070 and 2071 for installation references.

EXPANSION JOINTS

a. See Details 1140, 1150, 1160, 1170 and 6160 for installation references.

PITCH PAN

- a. Use pitch pans only when standard Duro-Last flashings cannot be used.
- b. Only Duro-Last Duro-Caulk Plus or approved sealer may be used when creating a pitch pan.
- c. See Details 4030, 4040 and 4045 for installation references.

WALKWAY PAD

a. Duro-Last Roof Trak[®] III Walkway Pad is recommended at all roof access points, service units and high traffic areas. The risk of potential third party damage to the Duro-Last roofing system may increase should the building owner choose not to utilize the Duro-Last Roof Trak III Walkway Pad. Note: Prior to inspection of the installation by Duro-Last, attach only one side of any Walkway Pads that will be covering any field seams. This will allow the Duro-Last Technical Representative to inspect the entire field seam. After the inspection, hot-air weld the remaining side to complete the attachment of the pad.

CAUTIONS AND WARNINGS

- 1. Duro-Last Roofing, Inc. is not responsible for damage that may occur as a result of moisture created from condensation occurring within or beneath a roof deck subassembly or building.
- 2. All Polystyrene insulation (Styrofoam, Formular, Dow, EPS, etc. blue, white, gray, green, or pink) must have an approved non-styrene facer or an approved slip sheet covering when installed in direct contact with existing or new PVC membranes. Polyethylene or polypropylene facers are acceptable only after testing, and approval by Duro-Last for compatibility.
- 3. Phenolic foam is not an approved insulation in new construction or re-roofing applications. The Duro-Last roofing system may not, under any circumstance, be installed over phenolic foam.
- 4. Perlite and wood/mineral fiber-boards are not acceptable substrates for the Duro-Last membrane. (See #5 below for exception on wood fiber board)
- 5. High density wood fiber boards are only acceptable on a metal roof that is being retrofitted where the slope of the roof will be 1-inch (25.4 mm) per 12-inch (305 mm) slope or greater.
- 6. If asbestos is encountered, the building owner must be notified at once. The owner is solely responsible for determining the proper course of action.
- 7. A Duro-Last roof shall not be installed over areas of roofs if one or more of the following conditions exist:
 - a. The building structure is not sufficient to handle the load of the completed system.
 - b. It is not possible to find an approved fastener that will properly hold in the substrate.
 - c. Roofs are subject to hot embers, slag, or burning debris.
 - d. Incompatible chemicals exhausted directly onto the roof or may come in contact with the roof in liquid form. (See "Chemical Resistance", page 4)
 - e. Steam is exhausted directly onto the roof that is in excess of 120° F (49° C).

www.duro-last.com

800-248-0280

ACTION FORM

AGENDA DATE

PZHAC: April 04, 2022,

BOT:

ITEM: PZHAC Case #061371 – 331 Capri Arc submitted by Frances Williams to install a ground mounted solar system. **Zoned: R-1**

BACKGROUND AND ANALYSIS: Although this property is in the R-1 Zone this case was reviewed by the Architectural Styles Committee (ASC) and had no issues moving it forward

Solar Smart Living LLC is proposing installation of ground mounted solar system, with ten (10) photovoltaic modules. **Zoned: R-1**

IMPACT:

- The PZHAC has jurisdiction to recommend approval of the applicant's request for approval of this request to the BOT.
- The applicant has the authority to make an application request to the PZHAC and BOT.
- Due process was provided to the applicant.

Specific findings of fact:

• The proposed work is on applicant's property and not in Town of Mesilla right-of-way.

ALTERNATIVES:

The Planning, Zoning and Historical Appropriateness Commission (PZHAC) may:

- 1. Recommend approval of this case with findings stated above.
- 2. Recommend approval of this case with findings stated above and conditions.
- 3. Deny the application.

DEPARTMENT RECOMMENDATIONS:

SUPPORTING INFORMATION:

- Application
- Plans

TOWN OF MESILLA ZONING APPROVAL

OFFICIAL USE ONLY: Case # <u>1371</u> Fee \$ 233.00

PERMISSION TO CONDUCT WORK OR OBTAIN A COMMERCIAL/RESIDENTIAL BUILDING PERMIT FROM CID

Fect 200,00 Ruin \$ 33,60

2231 Avenida de Mesilla, P.O. Box 10, Mesilla, NM 88046 (575) 524-3262 ext. 104 APPLICATION DATE: ZONE: CODE: CASE NO. (575) 496-6185 Francis Williams Property Owner's Telephone Number Name of Property Owner 88005 Las Cruces NM 331 Capri Arc State Zip Code Property Owner's Mailing Address City frank@nmsu.edu Property Owner's E-mail Address Solar Smart Living, LLC - 108 Ray Ward PI, Santa Teresa NM 88008 (Applicant: Paulina Olivas) Contractor's Name & Address (If none, indicate Self) 3-20375-4488-2 (575) 400-2995 Contractor's License Number Contractor's Telephone Number Contractor's Tax ID Number Address of Proposed Work: 331 Capri Arc, Las Cruces NM 88005 Description of Proposed Work: Installation of groundmounted solar system. 10 photovoltaic modules to be installed. \$ 15,000.00 Signatures of Applicant **Estimated Cost** Frank Williams Signature of property owner: With the exception of administrative approvals, all permit requests must undergo a review process from staff, PZHAC and/or BOT before issuance of a zoning permit. Plan sheets are to be no larger than 11 x 17 inches or shall be submitted electronically. FOR OFFICIAL USE ONLY □ Approved Date: BOT □ Administrative Approval **PZHAC** □ Disapproved Date: □ Approved Date: _ □ Approved with Conditions □ Disapproved Date: □ Approved with conditions BOT APPROVAL REQUIRED: ___YES ___NO PZHAC APPROVAL REQUIRED: ___YES ___NO CID PERMIT/INSPECTION REQUIRED: YES NO SEE CONDITIONS CONDITIONS: ISSUE DATE: PERMISSION ISSUED/DENIED BY: __ THIS APPLICATION SHALL INCLUDE ALL OF THE FOLLOWING: Plot plan with legal description to show existing structures, adjoining streets, driveway(s), improvements & setbacks. Verification shall show that the lot was LEGALLY subdivided through the Town of Mesilla or that the lot has been in existence prior to February 1972. Site Plan with dimensions and details. Foundation plan with details. Floor plan showing rooms, their uses and dimensions. Cross section of walls Roof and floor framing plan Proof of legal access to the property. Drainage plan. Details of architectural style and color scheme (checklist included for Historical zones) - diagrams and elevations. Proof of sewer service or a copy of septic tank permit; proof of water service (well permit or statement from the Public Utility providing water services). Proof of legal access to the property. Other information as necessary or required by the City Code or Community Development Department (See other side.)

The following are requirements to be included with all building permit applications for new structures or additions to existing structures, as well as other construction or fixtures that will be permanent in nature and affect the appearance or use of the property. (This includes fences, well houses, storage units, metal sheds, photo-voltaic panels that can be seen from the ground, etc.)

BUILDING PERMIT REQUIREMENTS

- A. Completed application, including:
 - 1. Applicant's name
 - 2. Applicant/property owners contact information
 - 3. Physical address of property
 - 4. Description of work to be done, including dimensions of any construction or repairs
 - 5. Value of work to be done
 - 6. Property owner's signature on the application

В.	Include all information required in the checklist at the bottom of the application.
C.	Additional information required:

"Photovoltaic system connected" 20 Amp Backfed Breaker Outdoor Load Center Panel Ratings 12 AWG EGC 10 AWG L1, L2, N Generation Disconnect Within 10' of revenue Unfused Customer Rated 30 Amps Photovoltaic L1, L2, N 10 AWG ONE LINE DIAGRAM & SITE MAP J5934 w/ Isolated Neutral 100 Amp rated, Milbank PV Production Meter Meter Socket 250 V Central Inverter Rating: Inverter Manufacturer = Solaredge Inverter Nominal AC Voltage = 120/240VAC Max DC Voltage Rating = 480V Model # = SE 3800H - US Number of Phases = 1 Max AC Current = 16 A Max Power = 5000W

Revenue Meter

 \geq

Inverter OCPD Rating = 20 Amp Backfed

Breaker

Service Voltage = 120/240 VAC

Bus Amp Rating = 100A

12 AWG EGC

≥

3800 W Inverter L1, L2, N 12 AWG EGC

Number of Modules in Series String = 10

Max Vmp per String = 380 VDC

Max DC Voltage = 480 VDC

PV Array Information w/ Optimizers Maximum Current per String = 12 A

Rapid Shutdown Compliant

25° Tilt

190 Azimuth Flush Mount 10 AWG

(48

Main OCPD Rating = 100A

To Utility

Attached placard

100 A Main

Rooftop Photovoltaic Array

Panels 10 ea

Notes & distances

- Weather proof one line electric diagram of generating facility will be located at the point of service connection to the utility

- PV array on roof of residence.
- All AC equipment located by Utility Meter
 - Inverter located by meter
- Photovoltaic AC Disconnect to main service panel within 5'
- Main service panel to revenue meter within 5'
 Photovoltaic AC Disconnect to revenue meter within 10'
 Photovoltaic AC Disconnect is lockable and visible within sight to revenue meter

Estimated Annual DG System

Output 7240 kWh per year

Open Circuit Voltage (Voc) = 47.4 V Short Circuit Current (Isc) = 10.45 A

Maximum Power (Pmax) = 400 W Max Series Fuse (OCPD) = 20 A

Max System Voltage = 1500V

Max Power Voltage (Vmp) = 40.3 V Max Power Current (Imp) = 9.92 A

Module Manufacturer = Trina

PV Module Ratings @ STC Module Model # = Tallmax

distance is less than 125 Ft

3/4" Conduit or Greater

Voltage Drop < 1% if linear Up to 6 Current Carrying

Conductors per Conduit

12 AWG Equipment

Ground

10 AWG Conductors

Ш ځ

> Customer Name: Voc Temp Coefficient = -0.36 % / C

331 Capri Arc

nstaller Address:

Santa Teresa, NM 88008 (915) 400-2995

perea@SolarSmartLiving.com Javier Perea (915) 474-5824

Contact: Phone:

Email:

SOLAR

Francis D Williams (575) 496-6185

Las Cruces NM 88005

Total System Size: 3.8 kW AC / 4.05 kW DC @ STC 10 Solar Panels Mar 10, 2022 Install Address: Date:

Solar Smart Living, LLC 108 Ray Ward Place Installer Name:

SITE MAP SSL



(575) 496-6185 Total System Size: 3.8 kW AC / 4.05 kW DC @ STC Customer Name: Francis D Williams

10 Solar Panels

Install Address:

331 Capri Arc Las Cruces NM 88005 Mar 10, 2022

108 Ray Ward Place Santa Teresa, NM 88008 Solar Smart Living, LLC Installer Address: Installer Name:

jperea@SolarSmartLiving.com (915) 400-2995 Javier Perea (915) 474-5824 Phone: Contact: Email:



Single Phase Inverter with HD-Wave Technology

for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US





Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking 99% weighted efficiency
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Fixed voltage inverter for longer strings
- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12

- UL1741 SA certified, for CPUC Rule 21 grid compliance
- Small, lightweight, and easy to install both outdoors or indoors
- Built-in module-level monitoring
- Optional: Faster installations with built-in consumption metering (1% accuracy) and production revenue grade metering (0.5% accuracy, ANSI C12.20)



/ Single Phase Inverter with HD-Wave Technology for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/ SE7600H-US / SE10000H-US / SE11400H-US

MODEL NUMBER	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	
APPLICABLE TO INVERTERS WITH PART NUMBER			SE	ххххн-ххххх	вхх4	6-16		
OUTPUT								
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA
AC Output Voltage MinNomMax. (211 - 240 - 264)	·	*	~	~	V	v	*	Vac
AC Output Voltage MinNomMax. (183 - 208 - 229)		/		~	Y	-	·	Vac
AC Frequency (Nominal)				59.3 - 60 - 60.50	9			Hz
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	Α
Maximum Continuous Output Current @208V	-	16	5	24	-		48.5	Λ
Power Factor		I, Adjustable - 0.85 to 0.85						
GFDI Threshold				1				A
Utility Monitoring, Islanding Protection, Country Configurable Thresholds				Yes				
INPUT								
Maximum DC Power @240V	4650	5900	7750	9300	11800	15500	17650	W
Maximum DC Power @208V		5100		7750	-	-	15500	W
Transformer-less, Ungrounded				Yes				1
Maximum Input Voltage				480				Vdc
Nominal DC Input Voltage			380			400		Vdc
Maximum Input Current @240V ¹	8.5	10.5	13.5	16.5	20	27	30.5	Add
Maximum Input Current @208V:5	2	9	-	13.5	-	-	27	Add
Max. Input Short Circuit Current				45				Ade
Reverse-Polarity Protection				Yes				_
Ground-Fault Isolation Detection				600ku Sensitivit	у			
Maximum Inverter Efficiency	99				99.2		Sensitivites /	%
CFC Weighted Efficiency		99 @ 240V 98.5 @ 208V						%
Nighttime Power Consumption		< 2.5						W

For other regional settings please contact SolarEdge support
 ○ A higher current source may be used; the inverter will limit its input current to the values stated.





HiKu SUPER HIGH POWER POLY PERC MODULE 395 W ~ 420 W CS3W-395 | 400 | 405 | 410 | 415 | 420P

MORE POWER



24 % higher power than conventional modules



Up to 4.5 % lower LCOE Up to 2.7 % lower system cost



Low NMOT: 42 ± 3 °C Low temperature coefficient (Pmax): -0.37 % / °C



Better shading tolerance

MORE RELIABLE



Lower internal current, lower hot spot temperature



Minimizes micro-crack impacts



Heavy snow load up to 5400 Pa, wind load up to 3600 Pa*

linear power output warranty*



enhanced product warranty on materials and workmanship*

*According to the applicable Canadian Solar Limited Warranty Statement.

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001:2015 / Quality management system ISO 14001:2015 / Standards for environmental management system OHSAS 18001:2007 / International standards for occupational health & safety

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730: VDE / CE / MCS / KS / INMETRO UL 1703 / IEC 61215 performance: CEC listed (US) UL 1703: CSA / IEC 61701 ED2: VDE / IEC 62716: VDE / IEC 60068-2-68: SGS UNI 9177 Reaction to Fire: Class 1 / Take-e-way









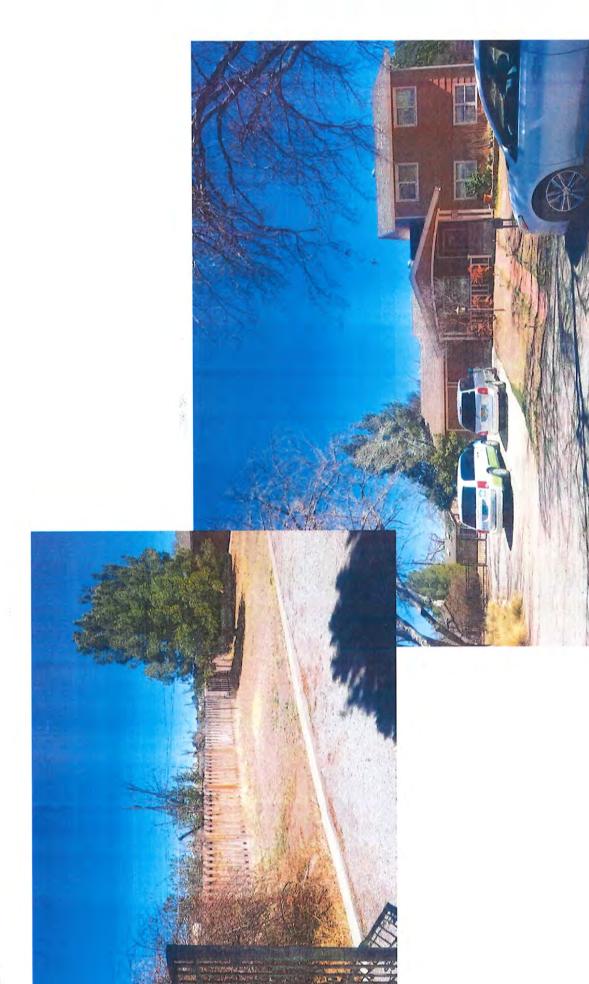




* As there are different certification requirements in different markets, please contact your local Canadian Solar sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

CANADIAN SOLAR (USA), INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 38 GW deployed around the world since 2001.

^{*} For detail information, please refer to Installation Manual.



Customer Name: Francis D Williams
(575) 496-6185
Total System Size: 3.8 kW AC / 4.05 kW DC @ STC 10 Solar Panels
Install Address: 331 Capri Arc Las Cruces NM 88005

Mar 10, 2022

Solar Smart Living, LLC 108 Ray Ward Place Installer Address: Installer Name:

Santa Teresa, NM 88008

(915) 400-2995 Javier Perea (915) 474-5824 jperea@SolarSmartLiving.com Phone: Contact: Email:





24"

Project Details

Foundation type

Name	331 Capri Arc			Date	03/24/2022	
Location	331 Capri Arc, Las Cruces, NM	88005		ASCE code	7.10	
Total modules	10			Wind speed	120 mph	
Module	Canadian Solar: CS3W-405P (4		Snow load	0 psf		
Dimensions	82.99" x 41.26" x 1.57" (2108.	40.0mm)	Wind exposure	В		
Total watts	4,050 kW			Piers	4	
				Concrete	2.56 yd [†]	
Substructure & Fo	undation					
Tile		25"	South facing gra	de	O.	
Pipe/tubing diame	ter	3"	Soil class		4	

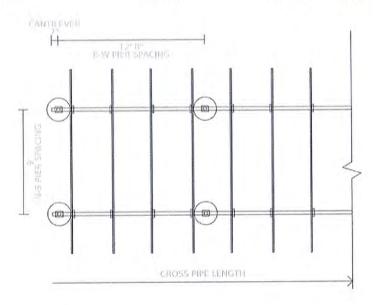
Concrete

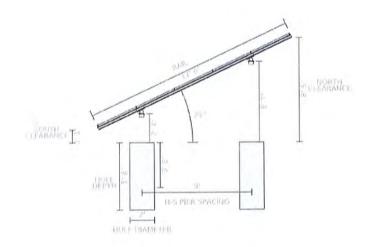
Hole diameter

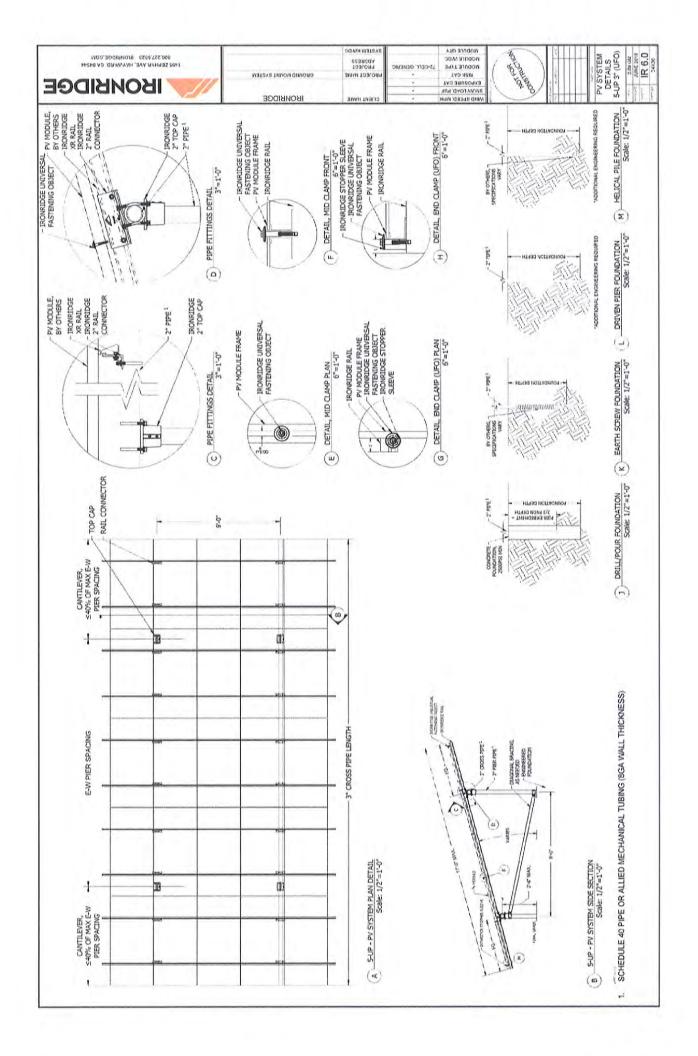


Su	b	ar	ray	1 #	1
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Rows	5	Columns	2	Repeats	1
Area	13' 10" (EW) × 17' 6" (NS)	Rail type	XR1000	Diagonal bracing	no
E/W spacing	12' 8"	Rail cantilever	3' 9"	Pipe cantilever	7"
Piers/repeat	4	Total south piers	2 (6')	Total north piers	2 (10' 3")
Total cross pipes	2 (13' 10")	Total pipe length	60' 2"		
Shear	1,437 lbs	Moment	3,593 ft-lbs	Uplift	-1,771 lbs









Starling Madison Lofquist, Inc.

5224 South 39th Street, Phoenix, Arizona 85040 tel: (602) 438-2500 fax: (602) 438-2505 ROC#291316 www.smleng.com

IronRidge 28357 Industrial Boulevard Hayward, CA 94545 July 1, 2019 Page 1 of 52

Attn: Mr. Corey Geiger, VP New Markets, IronRidge Inc.

Subject: Ground Mounting System - Structural Analysis - 5 Module (XR1000)

Dear Sir:

We have analyzed the subject ground mounted structure and determined that it is in compliance with the applicable sections of the following Reference Documents:

Codes: ASCE/SEI 7-10 Min. Design Loads for Buildings & Other Structures

ASCE/SEI 7-16 Min. Design Loads for Buildings & Other Structures

International Building Code, 2015 Edition International Building Code, 2018 Edition

Other: AC428, Acceptance Criteria for Modular Framing Systems Used to Support PV

Modules, dated Effective November 1, 2012 by ICC-ES

Aluminum Design Manual, 2015 Edition

IronRidge Exhibit EX-0002

The structure is a simple column (pier) and beam (cross pipe) system. The piers & cross pipes are ASTM A53 Grade B standard weight (schedule 40) steel pipes or Allied Mechanical Tubing. Please refer to Exhibit EX-0002 for approved pipe geometry and material properties. The tops of the piers are connected in the E-W direction by the cross pipes which cantilever over and extend past the end piers. The cross pipes are connected by proprietary IronRidge XR1000 Rails spanning up and down the slope which cantilever over and extend past the top and bottom cross pipes. There are typically two rails per column of modules. The modules are clamped to the rails by the IronRidge Module Mounting Clamps as shown in the attached Exhibit.

Gravity loads are transferred to the piers and foundations by the rails and cross pipes acting as simple beams. For lateral loads the system is either a cantilever structure or, when diagonal braces are provided, a braced frame. The effect of seismic loads (for all design categories A-F) have been determined to be less than the effect due to wind loads in all load conditions and combinations.

The pier spacing in the N-S direction is 9'-0". The pier spacing in the E-W direction is selected from load tables determined by the structural design for the specified slope, wind load, and snow load. The governing criteria for the pier spacing is either the spanning capacity of the cross pipes or the cantilever capacity of the pier. Simplified Load Tables 1A-F & 2A-F are included herein for reference.

More comprehensive information covering all load combinations is available at the IronRidge website, IronRidge.com.

3" Unbraced Pipe Frame	Snow	Slope (deg)									
Wind Speed & Exposure Category	psf	0	5	10	15	20	25	30	35	40	45
	0	206	206	202	196	187	179	172	147	126	107
	10	182	182	180	178	176	175	172	147	126	10
100 mmh	20	155	155	155	154	155	157	158	147	126	10
_100 mph	30	145	146	145	144	146	149	152	147	126	10
Exposure B	40	133	133	133	132	135	139	142	147	126	10
	50	121	121	122	123	126	130	135	142	126	10
	60	111	111	112	113	119	123	128	135	126	10
	0	206	206	194	189	179	172	157	133	114	9
	10	182	182	176	174	172	170	157	133	114	9
105 mph	20	155	155	152	151	152	153	154	133	114	9
	30	145	146	143	142	144	146	148	133	114	9
Exposure B	40	133	133	131	131	133	136	140	133	114	9
	50	121	121	122	122	125	128	132	133	114	9
	60	111	111	112	113	118	122	126	133	114	9.
	0	206	206	187	182	173	165	143	122	104	8
	10	182	182	172	170	167	165	143	122	104	8
110 mph	20	155	155	149	148	149	149	143	122	104	89
Exposure B	30	145	146	141	140	141	143	143	122	104	89
	40	133	133	129	129	131	134	137	122	104	81
	50	121	121	120	120	123	126	130	122	104	8
	0	198	203	174	169	160	153	120	102	87	74
	10	178	180	164	162	158	153	120	102	87	74
120 mph	20	153	154	144	143	143	143	120	102	87	7.
Exposure B	30	143	145	136	135	136	137	120	102	87	7.
Exposure 5	40	131	132	126	125	127	129	120	102	87	7.
	50	121	121	118	117	119	122	120	102	87	7-
	0	186	191	163	158	149	139	103	87	74	6
	10	171	174	157	154	149	139	103	87	74	6
130 mph	20	148	150	139	138	137	136	103	87	74	6
Exposure B	30	140	141	132	131	131	131	103	87	74	6
Exposure B	40	128	130	123	122	123	124	103	87	74	6
	50	119	120	115	114	116	118	103	87	74	6:
	0	175	180	153	148	140	120	89	75	64	5
	10	164	167	150	147	140	120	89	75	64	5
140 mph	20	144	146	134	133	131	120	89	75	64	5
Exposure B	30	136	138	128	127	126	120	89	75	64	5
map obtained to	40	125	127	119	118	119	119	89	75	64	5
	50	117	118	112	111	113	114	89	75	64	5
	0	165	170	144	139	132	104	77	65	56	4
450 m	10	158	161	143	139	132	104	77	65	56	4)
_150 mph	20	140	142	130	128	126	104	77	65	56	41
Exposure B	30	132	134	124	122	121	104	77	65	56	43
A STATE OF S	40	123	124	116	115	115	104	77	65	56	4
	0	157	161	136	131	124	92	68	57	49	4
400	10	152	155	136	131	124	92	68	57	49	4
160 mph	20	136	138	125	123	121	92	68	57	49	4
Exposure B	30	129	131	120	118	117	92	68	57	49	42
3.3073.0005	40	120	121	113	111	111	92	68	57	49	4

Notes: see page 14

IronRidge Mr. Corey Geiger Ground Mounting System – Structural Analysis – 5 Module (XR1000)

				Soil C	ass 4						
	Table	4A - 1	MINIM	UM FO	UNDA	TION D	EPTHS	(in)			
3" Pipe Frame Unbraced	Pier Dia	Slope (deg)									
Wind Speed & Exposure Category	(in)	0	5	10	15	20	25	30	35	40	4
	12	42	42	48	60	66	78	90	90	90	9
100 mph	16	36	36	42	54	60	72	78	78	78	7
Exposure B	20	36	36	36	48	54	66	72	72	72	7:
	24	36	36	36	42	54	60	66	66	66	6
	12	42	42	48	60	72	78	90	90	90	9
105 mph	16	36	36	42	54	60	72	78	78	78	7
Exposure B	20	36	36	36	48	54	66	72	72	72	7:
	24	36	36	36	48	54	60	66	66	66	6
	12	42	42	48	60	72	84	90	90	90	9
110 mph	16	36	36	42	54	66	72	78	78	78	7
Exposure B	20	36	36	42	48	60	66	72	72	72	7:
100000	24	36	36	36	48	54	60	66	66	66	6
	12	42	54	54	66	72	84	90	90	90	9
120 mph	16	36	42	48	54	66	78	78	78	78	7
Exposure B	20	36	36	42	54	60	66	72	72	72	7:
	24	36	36	36	48	54	66	66	66	66	6
	12	48	54	60	66	78	90	90	90	90	90
130 mph	16	36	42	48	60	66	78	78	78	78	78
Exposure B	20	36	36	42	54	60	72	72	72	72	7:
	24	36	36	42	48	60	66	66	66	66	60
	12	54	60	60	72	78	90	90	90	90	90
140 mph	16	42	48	48	60	72	78	78	78	78	7
Exposure B	20	36	36	42	54	66	72	72	72	72	7:
	24	36	36	42	54	60	66	66	66	66	60
	12	54	66	66	78	84	90	90	90	90	90
150 mph	16	42	48	54	60	72	78	78	78	78	78
Exposure B	20	36	42	48	60	66	72	72	72	72	7:
	24	36	36	42	54	60	66	66	66	66	*
	12	60	72	72	84	84	90	90	90	90	90
160 mph	16	48	54	54	66	78	78	78	78	78	78
Exposure B	20	36	42	48	60	72	72	72	72	72	7:
	24	36	36	42	54	66	66	66	66	66	*

Notes: see page 52

July 1, 2019 Page 52 of 52

Notes for Tables 3 & 4:

- 1. Concrete Weight = 145 pcf/fc = 2500 psi
- 2. Provide Air Entraining Admixture for freeze and thaw cycles as required for colder climates.
- Skin Friction per 2018 IBC & 2015 IBC 1810.3.3.1.4 & 5
- 4. Top 1'-0" of soil neglected for Skin Friction
- 5. Snow Load = 0 psf tabulated values are conservative for Snow Loads > 0 psf
- 6. * indicates special foundation required. Contact IronRidge
- Resistance to corrosion and/or sulfate attack, along with possible adverse effects due to expansive soils has not been considered in these foundation recommendations. SML Engineers assumes no liability with regard to these items.
- 8. Soil classification is to be determined and verified by the end user of this certification letter.

The analysis assumes that the array, including the connections and associated hardware, are installed in a workmanlike manner in accordance with the IronRidge Ground Mount Installation Manual and generally accepted standards of construction practice. Verification of PV Module capacity to support the loads associated with the given array shall be the responsibility of the Contractor or Owner and not IronRidge or Starling Madison Lofquist.

Please feel free to contact me at your convenience if you have any questions.

Respectfully yours,

Tres Warner, P.E. Design Division Manager

> Tres J Warner

Digitally signed by Tres J Warner DN: c=US, o=Starling Madison Lofquist Inc, ou=A01410C00000174 6F7B4222000053B6, cn=Tres J Warner

Date: 2020.12.30 13:42:36 -07'00'

