PAGE

DESCRIPTION

COVER SHEET

DRAWING INDEX

Ξ  $\Omega$ 

ANCHOR BOLT PLAN

F2

ANCHOR BOLT DETAILS ANCHOR BOLT REACTIONS

# 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 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. documents which

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

<u>Code Official Approval</u> — 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.

<u>is responsible for State. Federal and OSHA safety compliance</u> — The Builder/Contractor is responsible g and observing all pertinent safety rules and regulations and OSHA standards as applicable. ο̈́

<u>Building Erection</u> — 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 Cade of Standard Practice Sept 86 Section 7.9.1) (Mar 05 Section 7.10.3)

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

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

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

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

## PROJECT NOTES

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

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 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 provisions of the model code and/or specification indicated. Neither the manufacture nor the certify declares or attests that the loads as designated are proper for the load provisions that may apply specific parameters. The manufacturer's Engineer's certification is limited to design loads supplied by Architect and/or engineer of record for the overall construction project. the certifying engineer may apply or for site 9

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

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

Using 7x7 Northern eave gutter with 4 x 5 downspouts, the roof drainage system has been designed using the method autlined in the MBMA Metal Building Systems Manual. Downspout locations have not been located on these drawings. The downspouts are to be seceed 40 feet with the first downspout from both ends of the gutter run within 23 feet of the end. Downspout spacing that does not exceed the maximum spacing will be in compliance with the building code. The gutter and downspout system as provided by the manufacturer is designed to accommodate 10 in/hr rainfall intensity.

Roof and wall panels have been designed in accordance with section 2222.4 of the Sixth Edition (2017). Product approval numbers for the State of Florida, Department per Product Rule 98—72: 2222.4 of the Florida Building Code, ida, Department of Community Affairs

NOMINAL WIND SPEED (Vasd)	WIND LOAD  ULTIMATE WIND SPEED	THERMAL FACTOR (Ct)	SNOW EXPOSURE FACTOR (Ce)	FLAT ROOF SNOW LOAD (Pf)	SNOW LOAD IMPORTANCE FACTOR (Is)	GROUND SNOW LOAD (Pg)	RISK CATEGORY	ROOF LIVE LOAD	COLLATERAL	ROOF DEAD LOAD SUPERIMPOSED	THE BUILDER IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.	FBC 17	THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY:	DESIGN LOADING
93	120	1.00	1.0	0	1.0000	0.0000 PSF	II – Normal	20.00	0.5	1.790 PSF	BUILDING C		NG THE LOA	NG NG
XPH	N P			PSF		PSF	ם	PSF	PSF.	PSF	)MPLY	•	S	
MPH (IBC SECTION								20.00 PSF (REDUCIBLE)			TMENT.			

E2 Ξ 73

ROOF SHEETING PLAN ROOF FRAMING PLAN

E3

RONT SIDEWALL

TICKER TOWNS (CV)		DET1-11 STANDARD DETAILS
WIND LOAD		R1-R4 INSTALLATION SHEETS
ULTIMATE WIND SPEED	120 MPH	
NOMINAL WIND SPEED (Vosd)	93 MPH (IBC SECTION 1609.3.1) DRAWING STATUS	DRAWING STATUS
SERVICEABILITY WIND SPEED		A D D D D D D D D D D D D D D D D D D D
WIND EXPOSURE CATEGORY	B THESE DRA	THESE DRAWINGS, BEING FOR APPROVAL, ARE BY
TOPOGRAPHICAL FACTOR	1.0 DEFINITION	DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL
INTERNAL PRESSURE COEFFICIENT (GCpi) 0.18 /-0.18		CONFIRM PROPER INTERPRETATION OF THE PROJECT
ZONE 4, COMPONENT WIND LOAD & 10FT2		DOCUMENTS. ONLY DRAWINGS ISSUED
23.689 PSF PRESSURE -25.663 PSF SUCTION		"FOR ERECTOR INSTALLATION" CAN BE CONSIDERED AS COMPLETE.
ZONE 5, COMPONENT WIND LOAD < 10FT <sup>2</sup>		FOR CONSTRUCTION PERMIT
20:009 For ENCOSONC = 31:020 For Section		THESE DRAWINGS, BEING FOR PERMIT, ARE BY

INSTALLATION SHEETS STANDARD DETAILS FRAME CROSS SECTION RIGHT ENDWALL LEFT ENDWALL BACK SIDEWALL

E7 E6 E5 m 4

7-10; FIG. 30.4-1 SHOWN ARE UN-FACTORED 10.0000 IN/HOUR FOR CONSTRUCTION PERMIT
THESE DRAWINGS, BEING FOR PERMIT, ARE BY
DEFINITION NOT FINAL, ONLY DRAWINGS ISSUED
"FOR ERECTOR INSTALLATION" CAN BE CONSIDERED
AS COMPLETE. FOR ERECTOR INSTALLATION DRAWINGS FOR CONSTRUCTION.

RAIN INTENSITY
5-MINUTE DURATION, 5-YEAR
RECURRENCE (11)

ZONES PER ASCE ZONES PRESSURES

FOR QUESTIONS OR ASSISTANCE CONCERNING ERECTION CALL: 800-556-3726

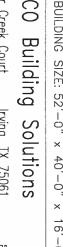
# ENGINEERING SEAL

WONDAY - FRIDAY 7:30AM TO 5:00PM

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

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

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 MANUFACTURER ONLY. THE UNDERSIGNED ENGINEER IS NOT THE OVERALL ENGINEER OF RECORD FOR THIS PROJECT.



5244 Bear Creek Cour 214-687-9999

>	BUILDING ID			7	
	NG ID	OWNER:	Fax	_	(
16-B-81820	JOB NUMBER	OWNER: D.R. NICKELSON & CO, INC	Fax 214-687-9737	Irving, TX 75061	
C1	SHEET NUMBER		ICLY STORE SAMPACIACOS VERGINAIS		<u>e</u>

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+ H	1	RCH BYTON MACACINES VERO	1x 214-687-9737
No. 38305 . X	1		Irving, TX 75061
AND CENSOR	S		g Solutions
THE SEY DAVING	2.0:12		2'-0" × 40'-0" × 16'-0"
Orawing has been digitally signed.			

LOCATIONS OF BOLTS LONGER THAN 2 3/4" NOTED ON ERECTION DRAWINGS Over Over 1 13/16" TO 2 1/16" 1 5/16" TO 1 9/16" 1 9/16" TO 1 13/16" 1 1/16" TO 1 5/16" 0 TO 9/16" 9/16" TO 1 1/16" 2 3/4" 2 1/4" 1 1/4" F.T. 3/4" F.T.

GRIP

LENGTH

1/2"ø A325

BOLT GRIP TABLE

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

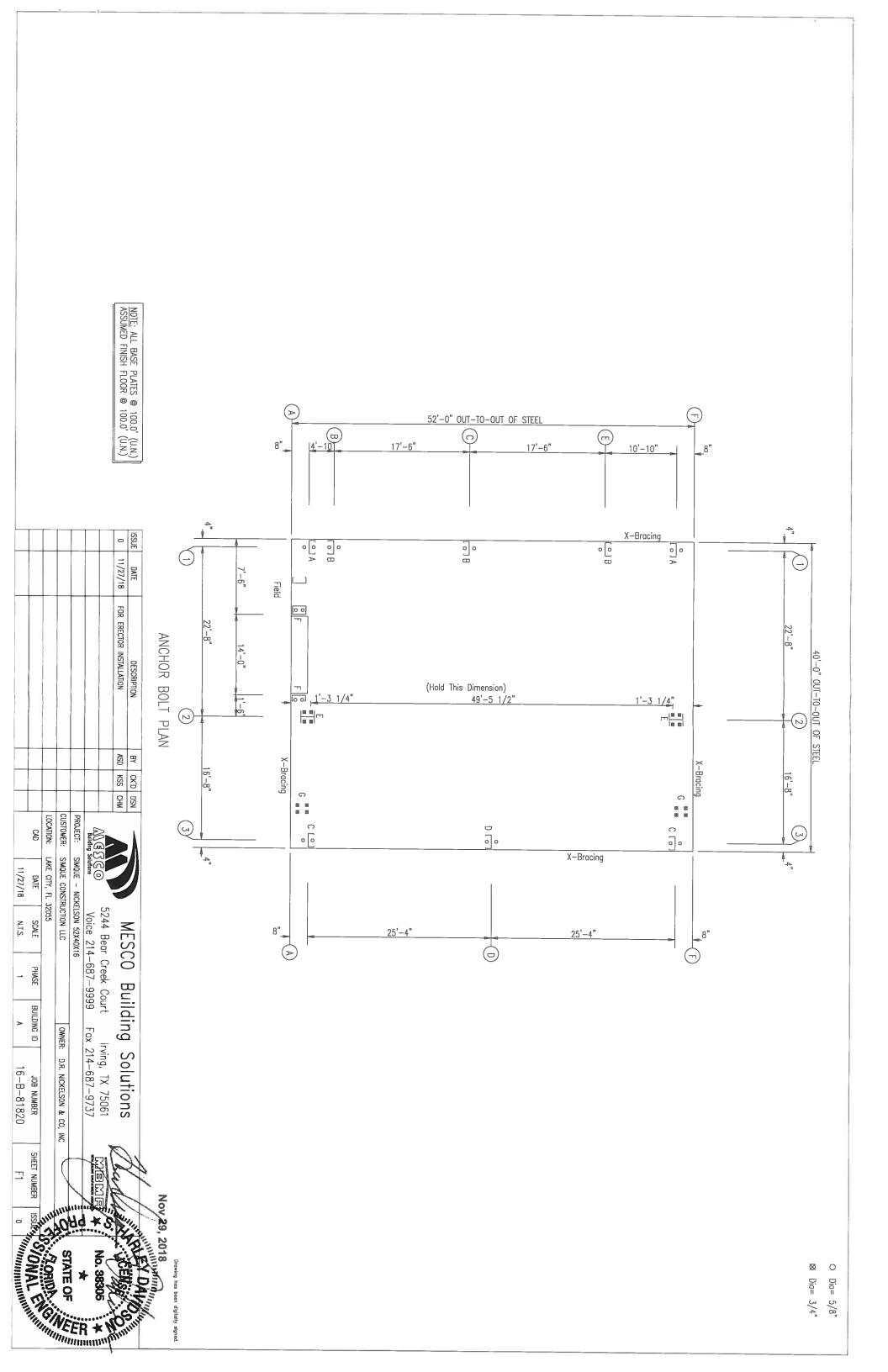
FULL THREAD ENGAGEMENT IS
DEEMED TO HAVE BEEN MET
WHEN THE END OF THE BOLT
IS FLUSH WITH THE FACE OF
THE NUT.

11/27/18 DATE R ERECTOR INSTALLATION DESCRIPTION ASD В CK'D

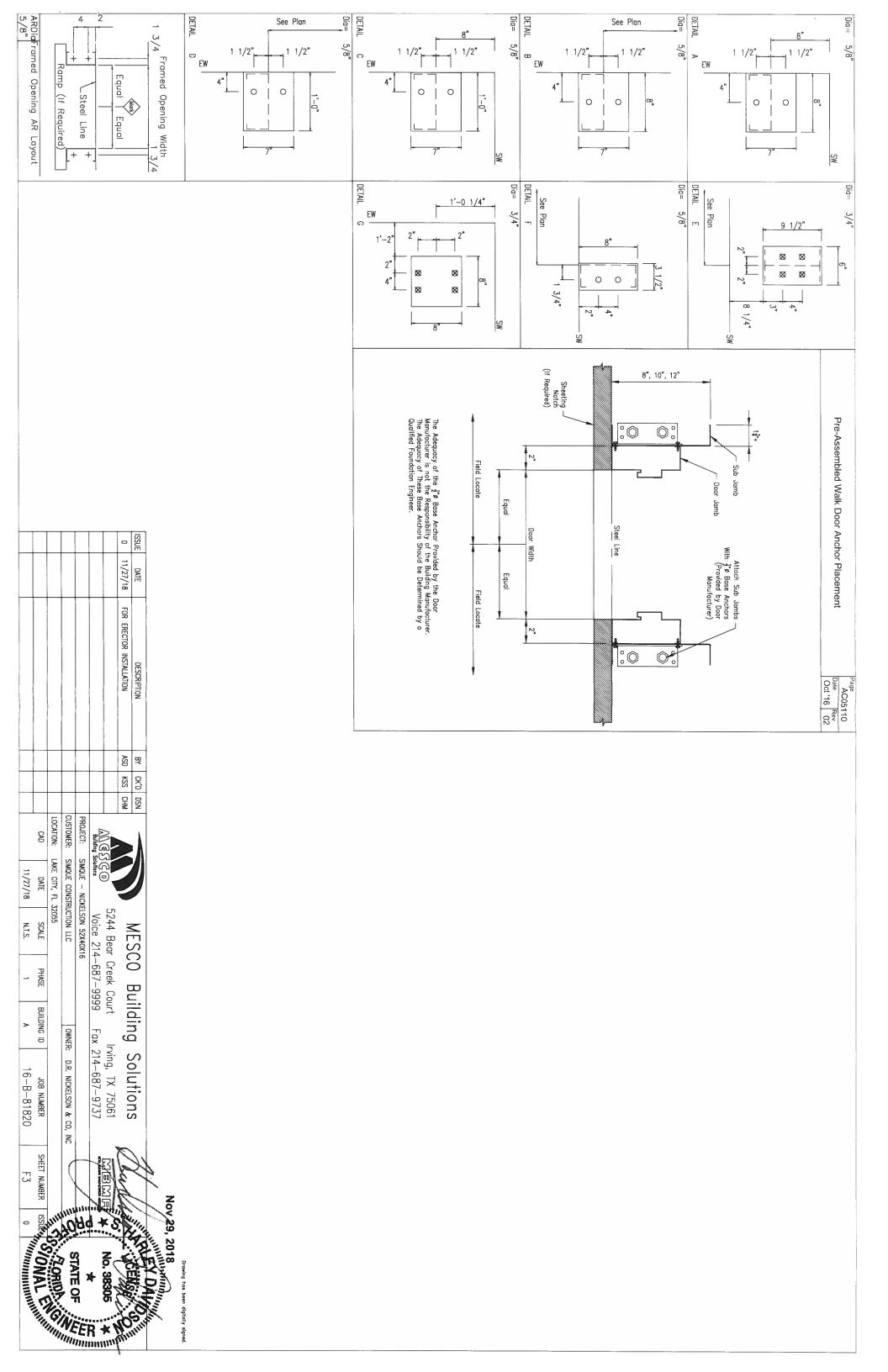
SS SH NSO CUSTOMER: LOCATION: PROJECT: ફ SIMQUE CONSTRUCTION ILC LAKE CITY, FL SIMQUE - NICKELSON 52X40X16 32055 MESCO

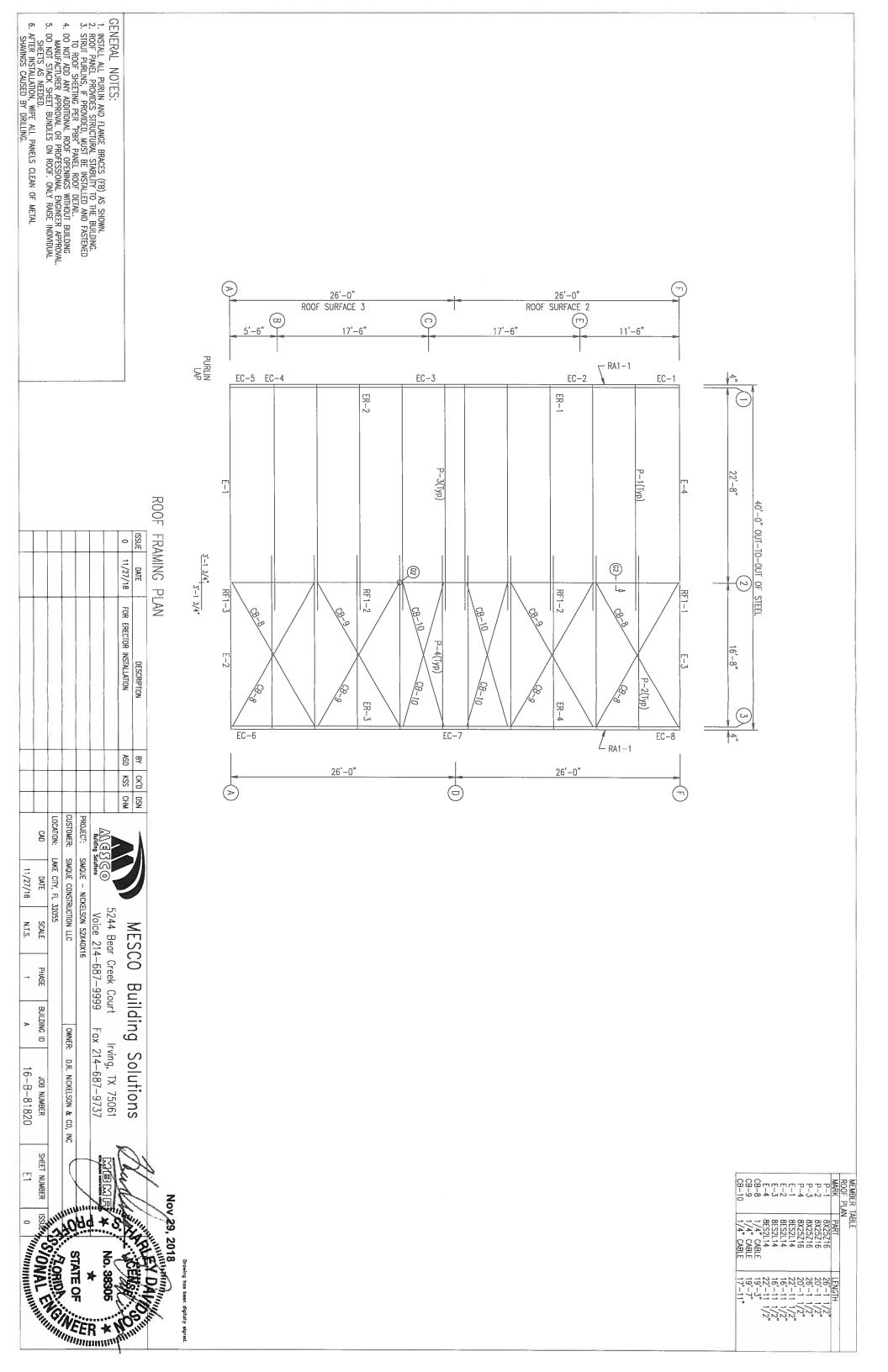
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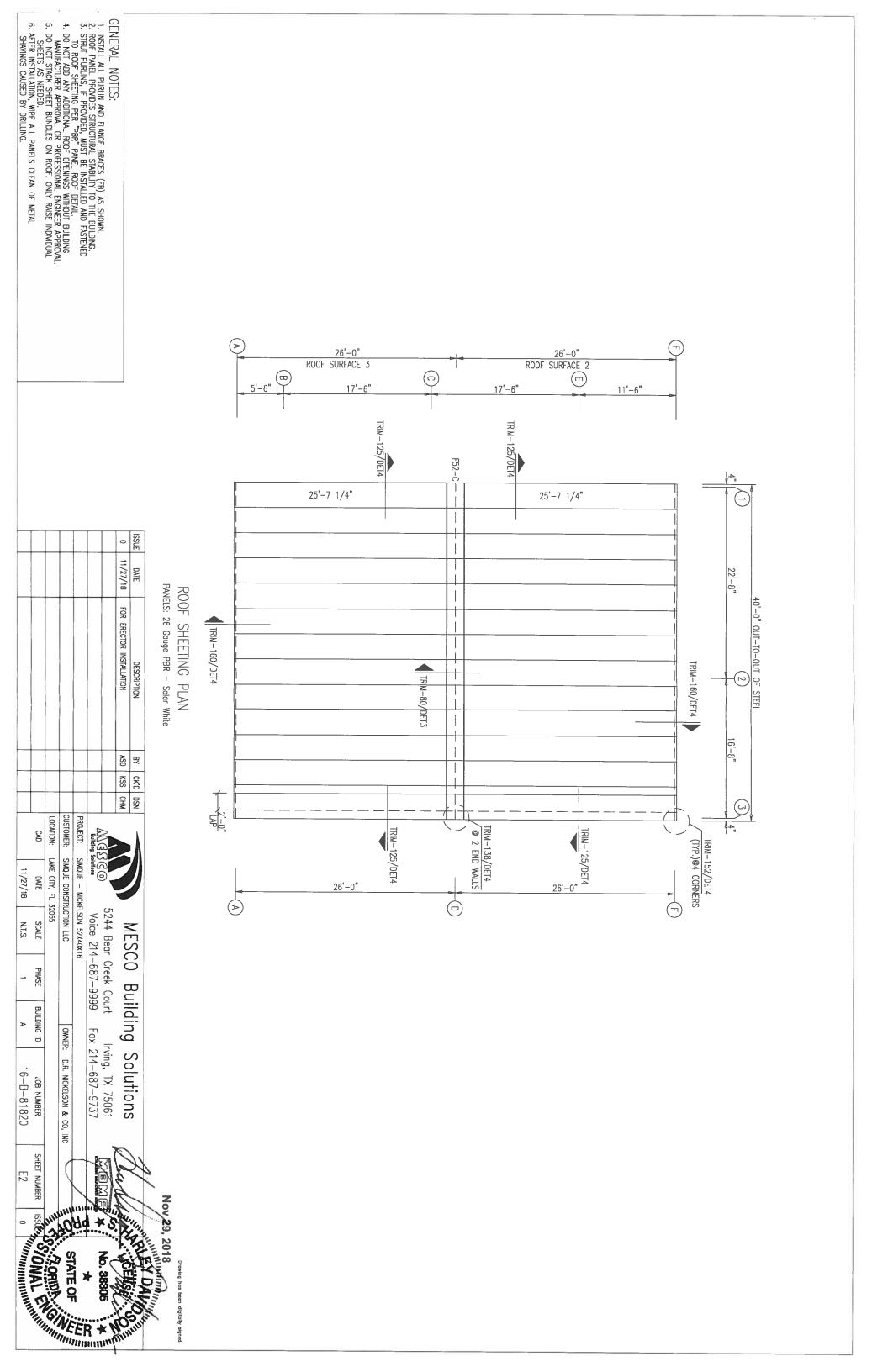
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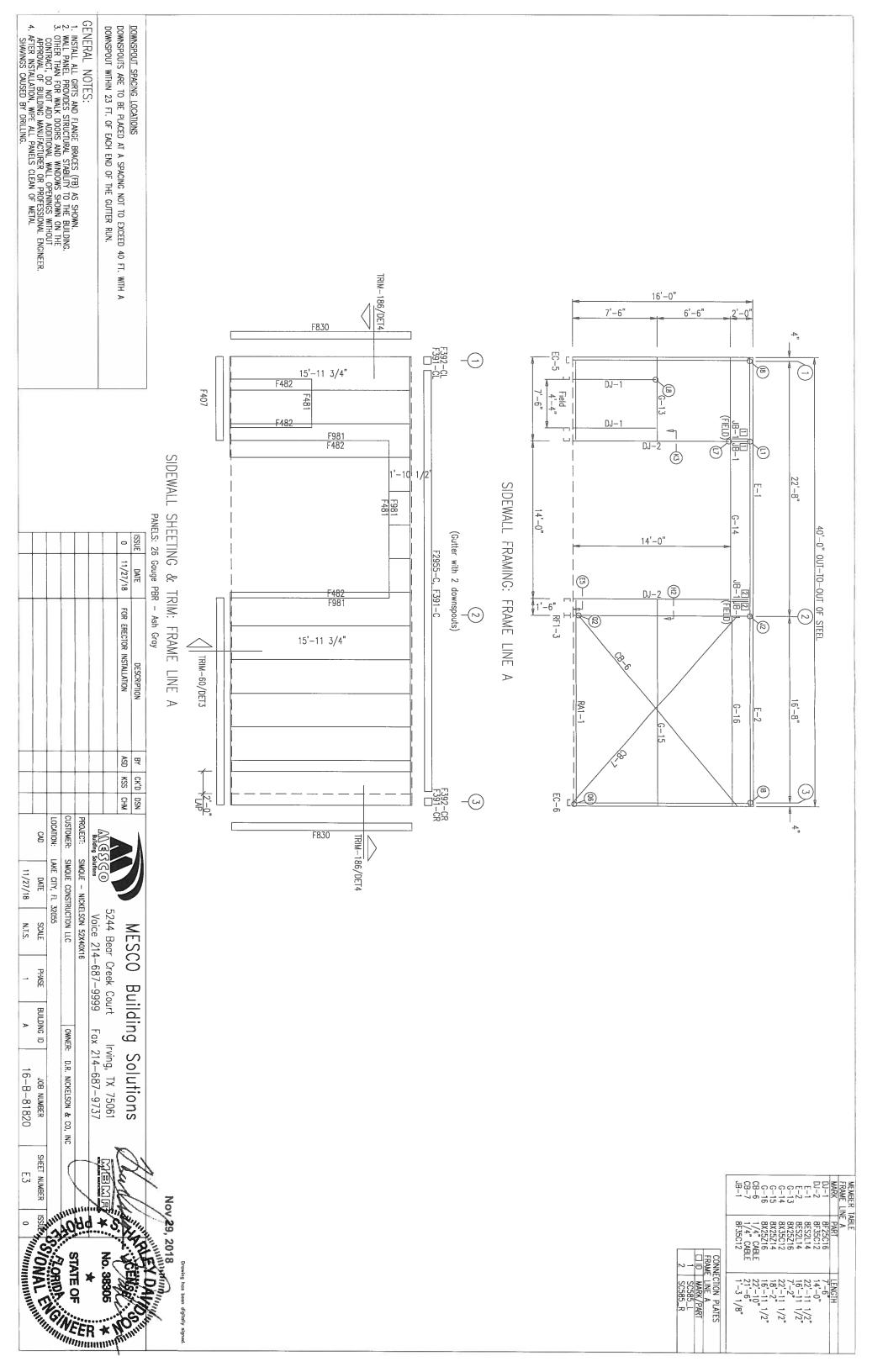


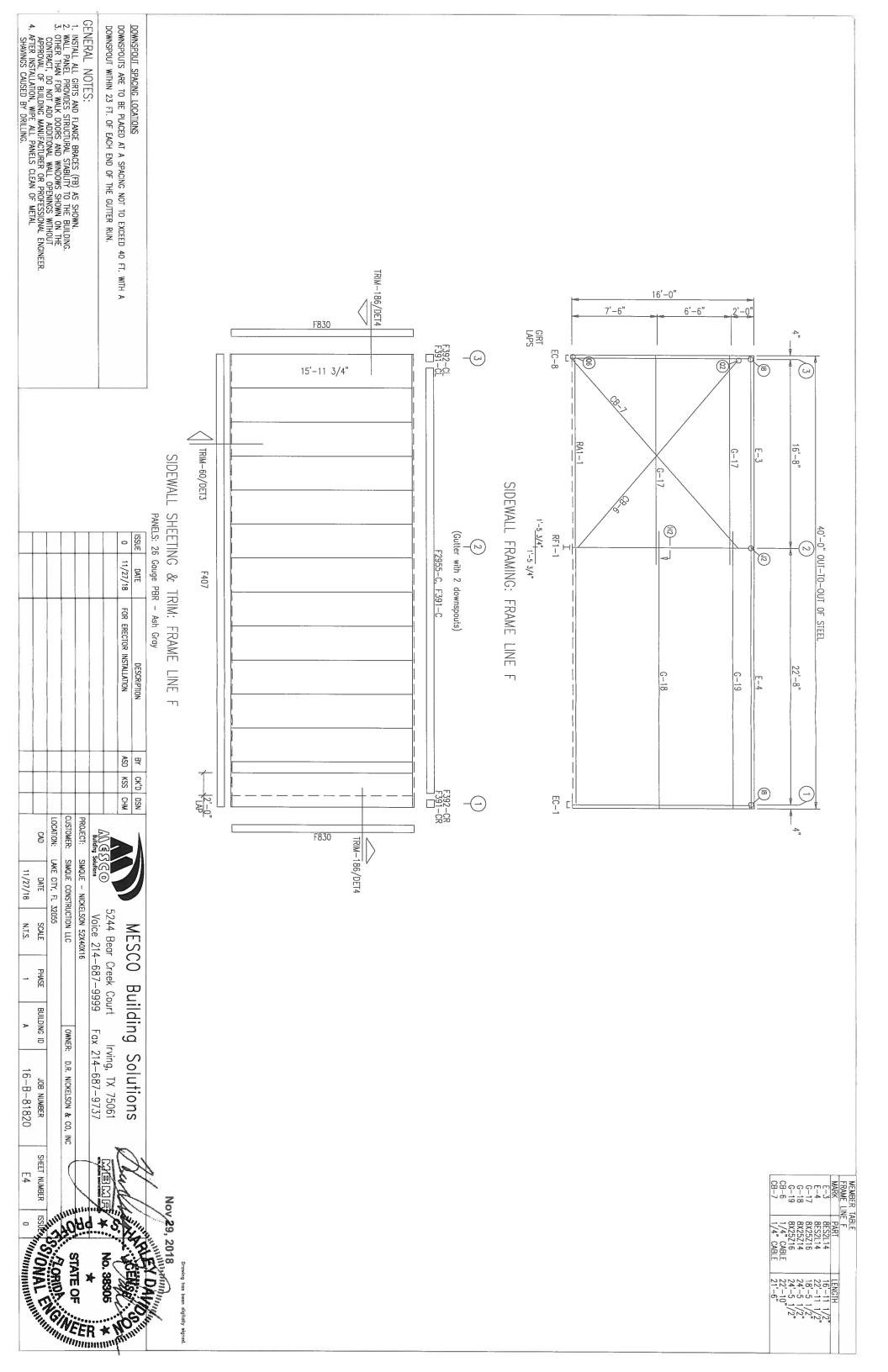
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DESCRIPTION  BY CK'D DSN  ASD KSS CHM  AND  Buildin  CUSTOMER:  CAD	ENDWALL COLUMN:
MESCO Building Solutions  Single Nov29, 2018  Nov29, 2018	H   W   W   W   W   W   W   W   W   W

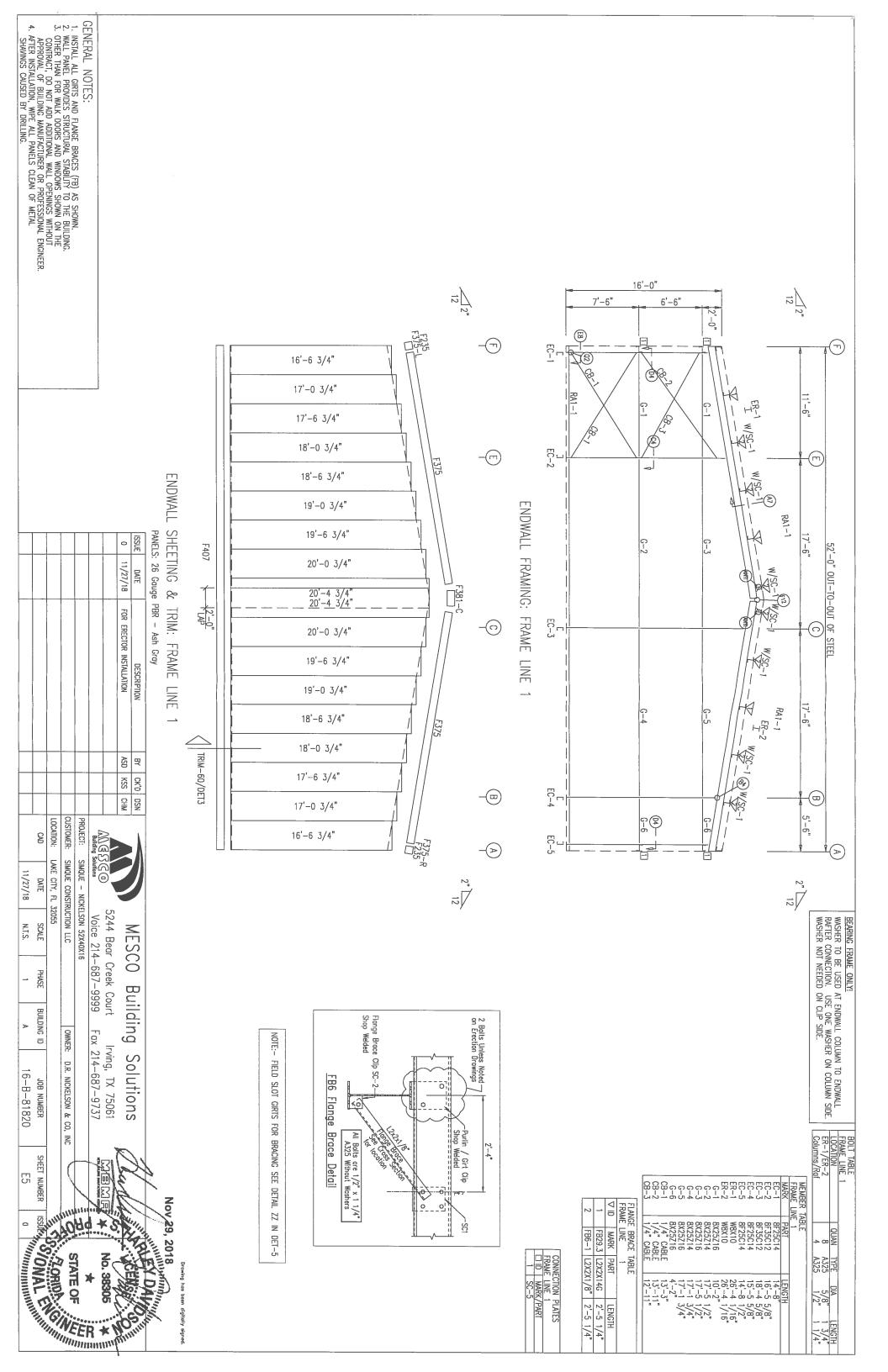


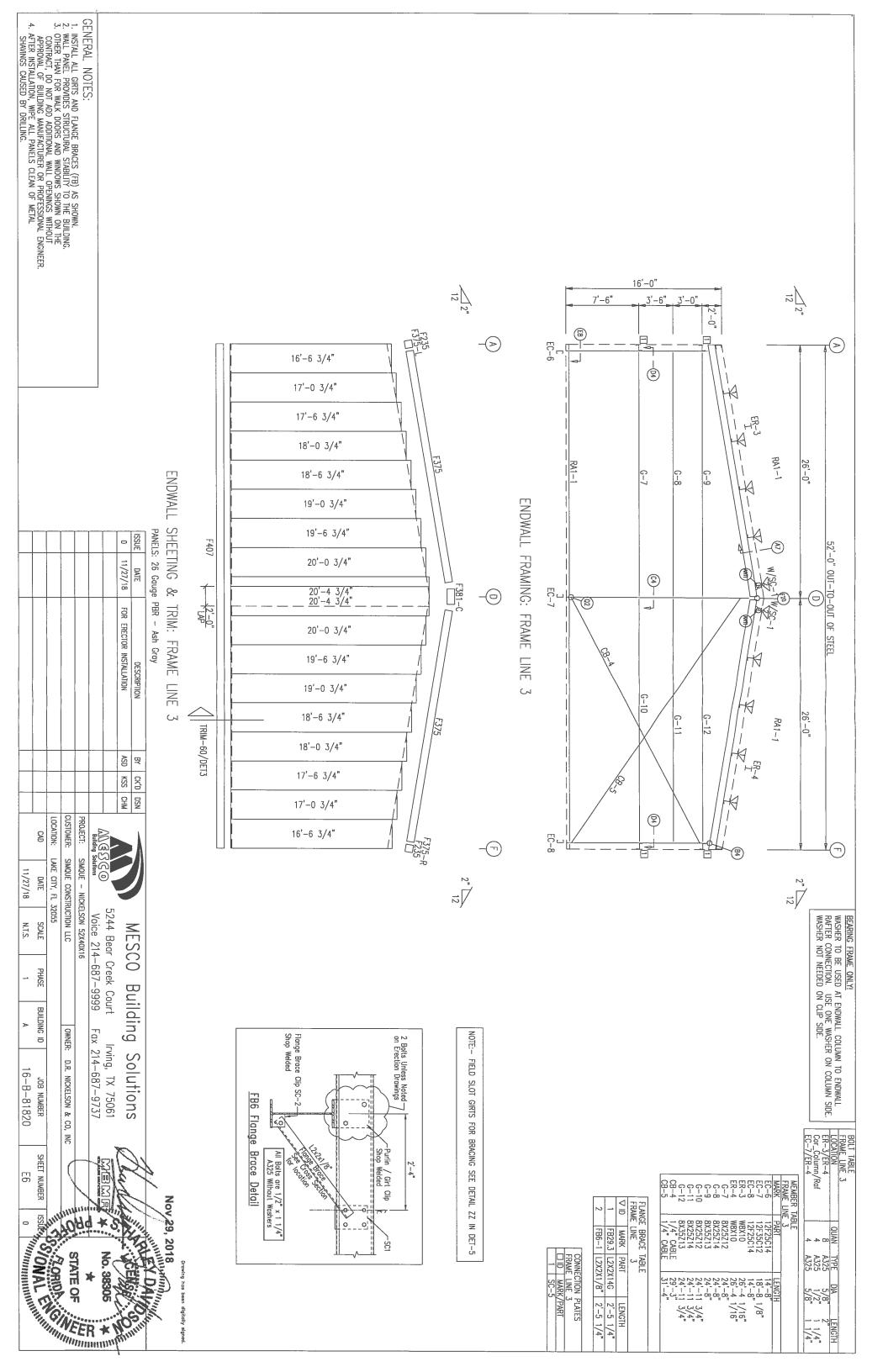


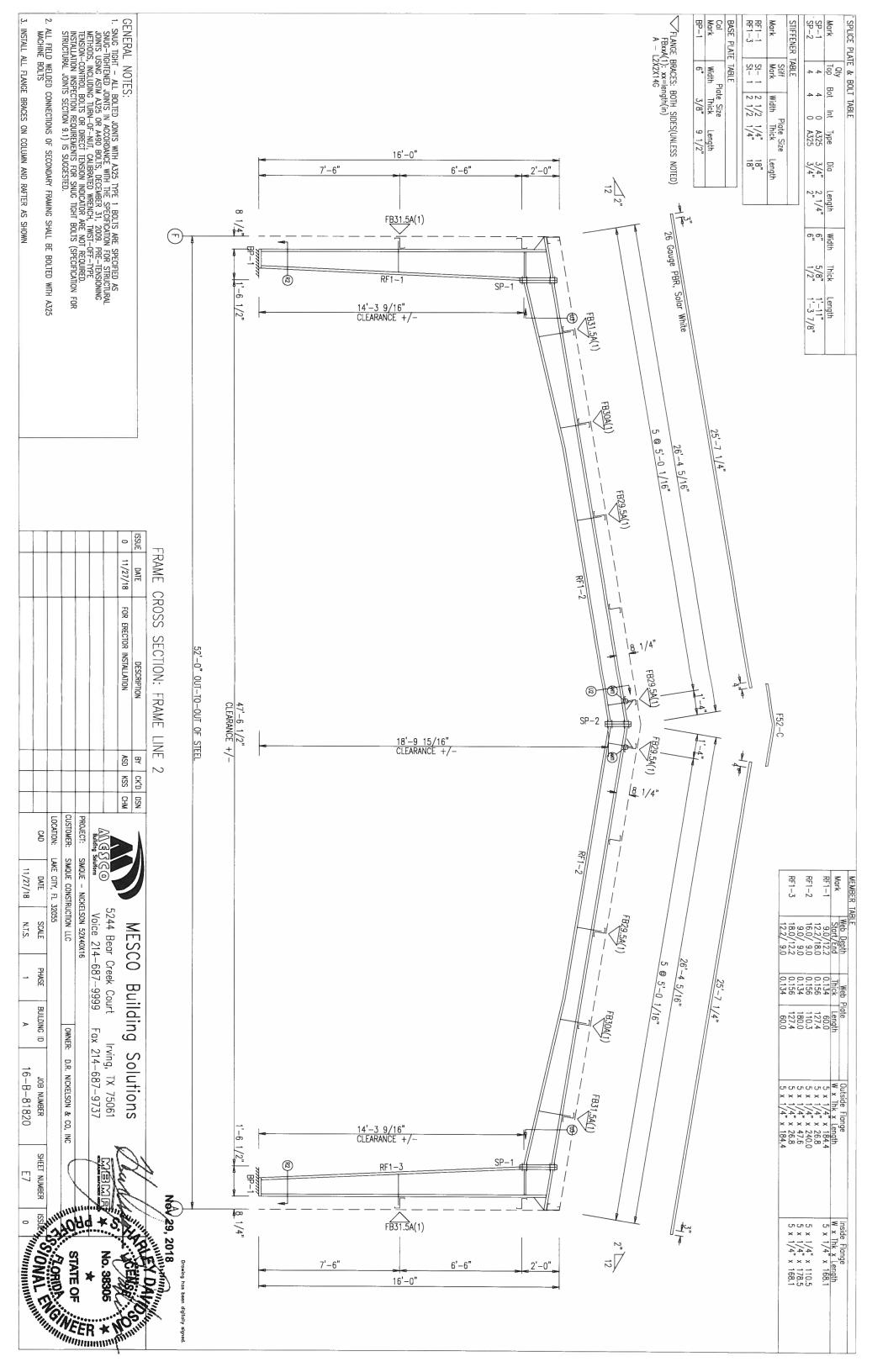


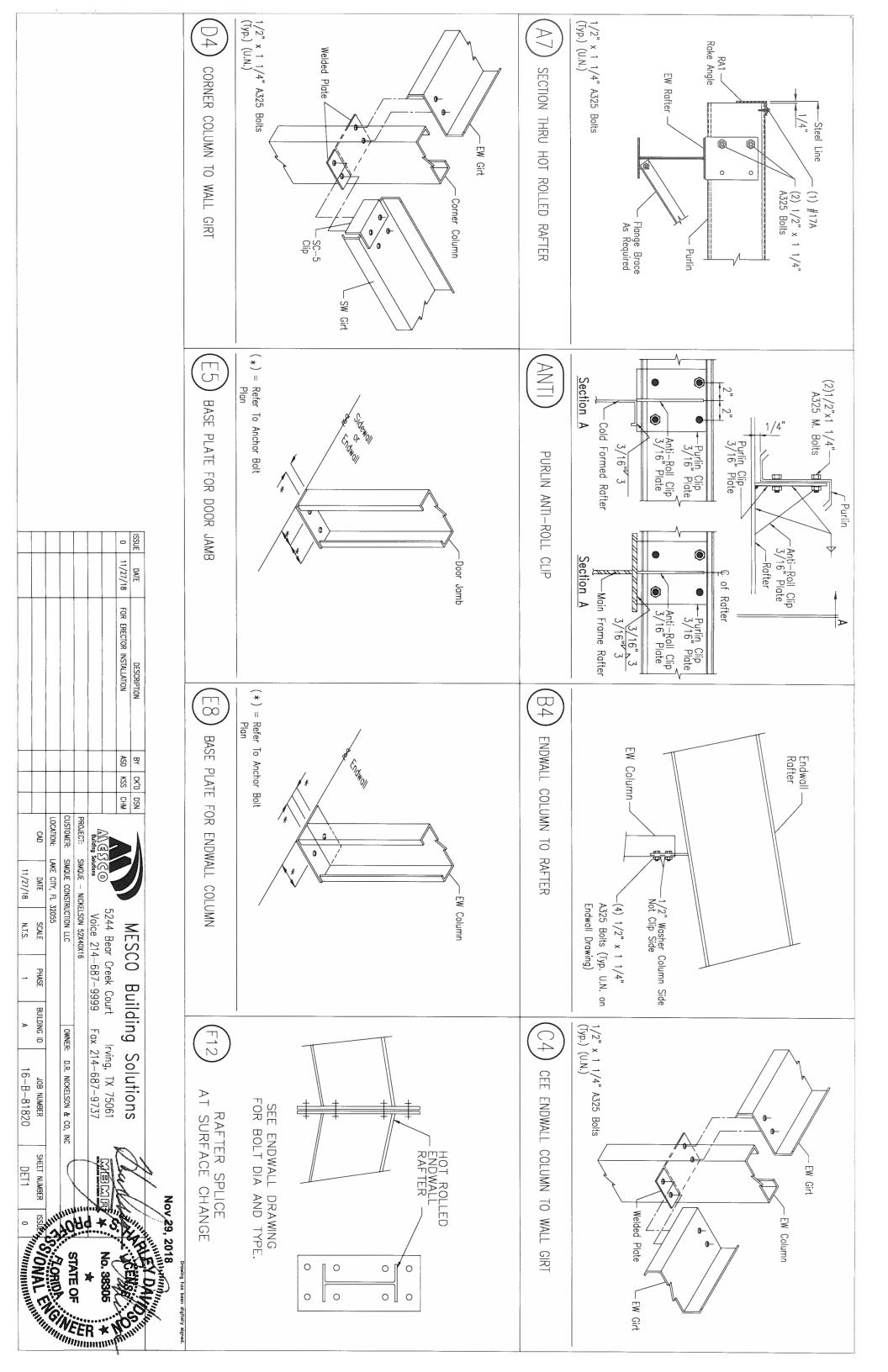


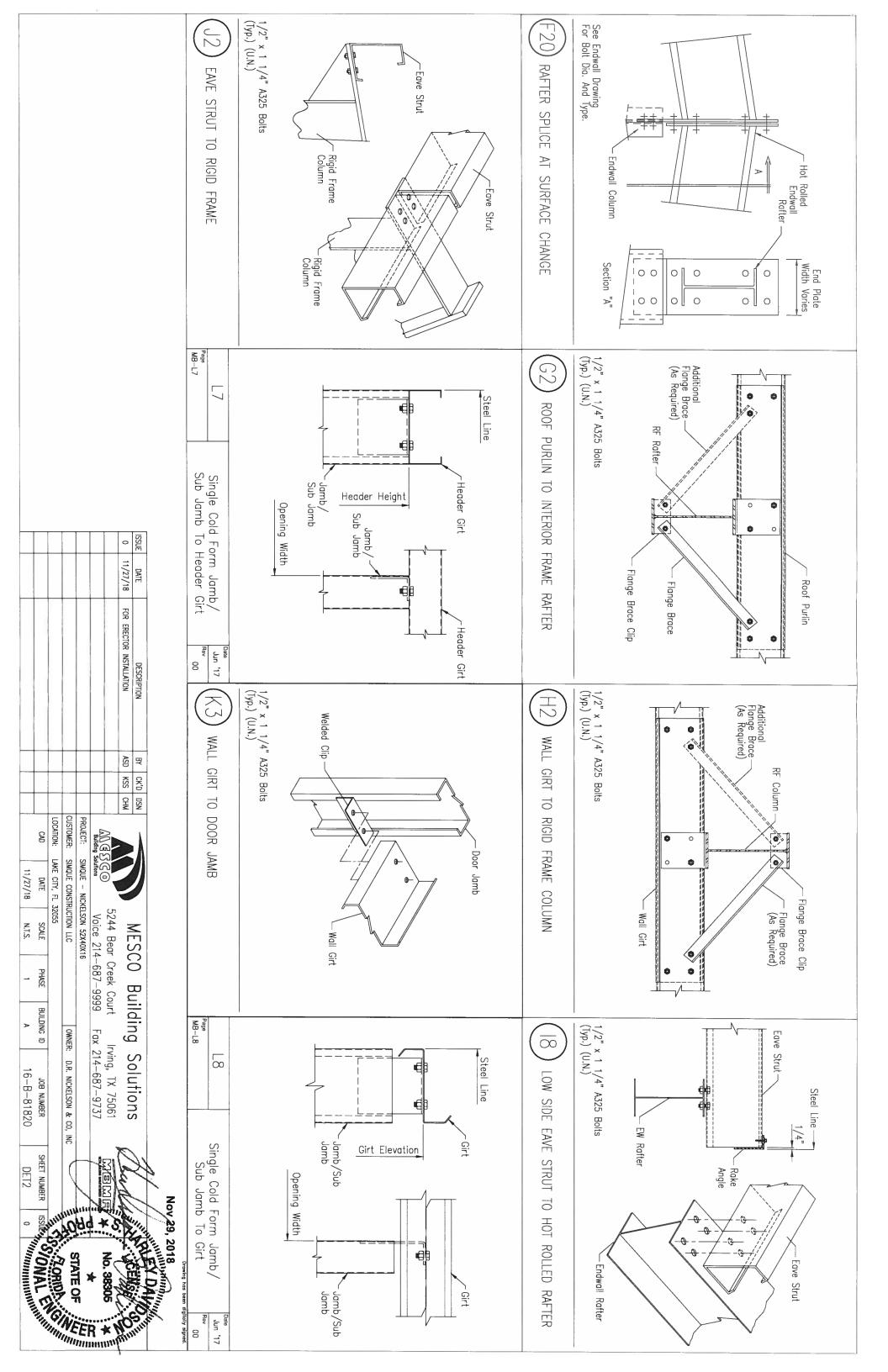


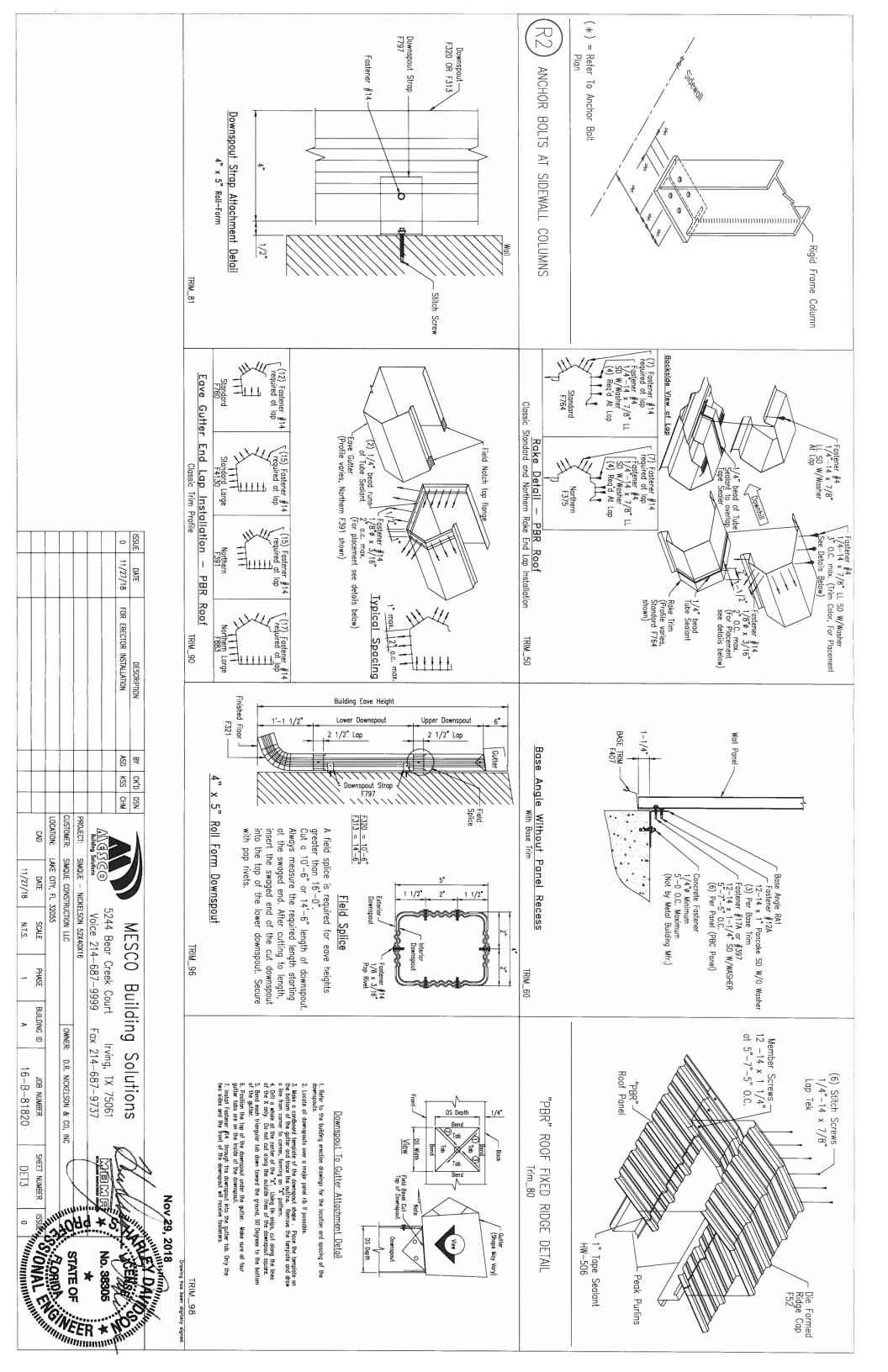


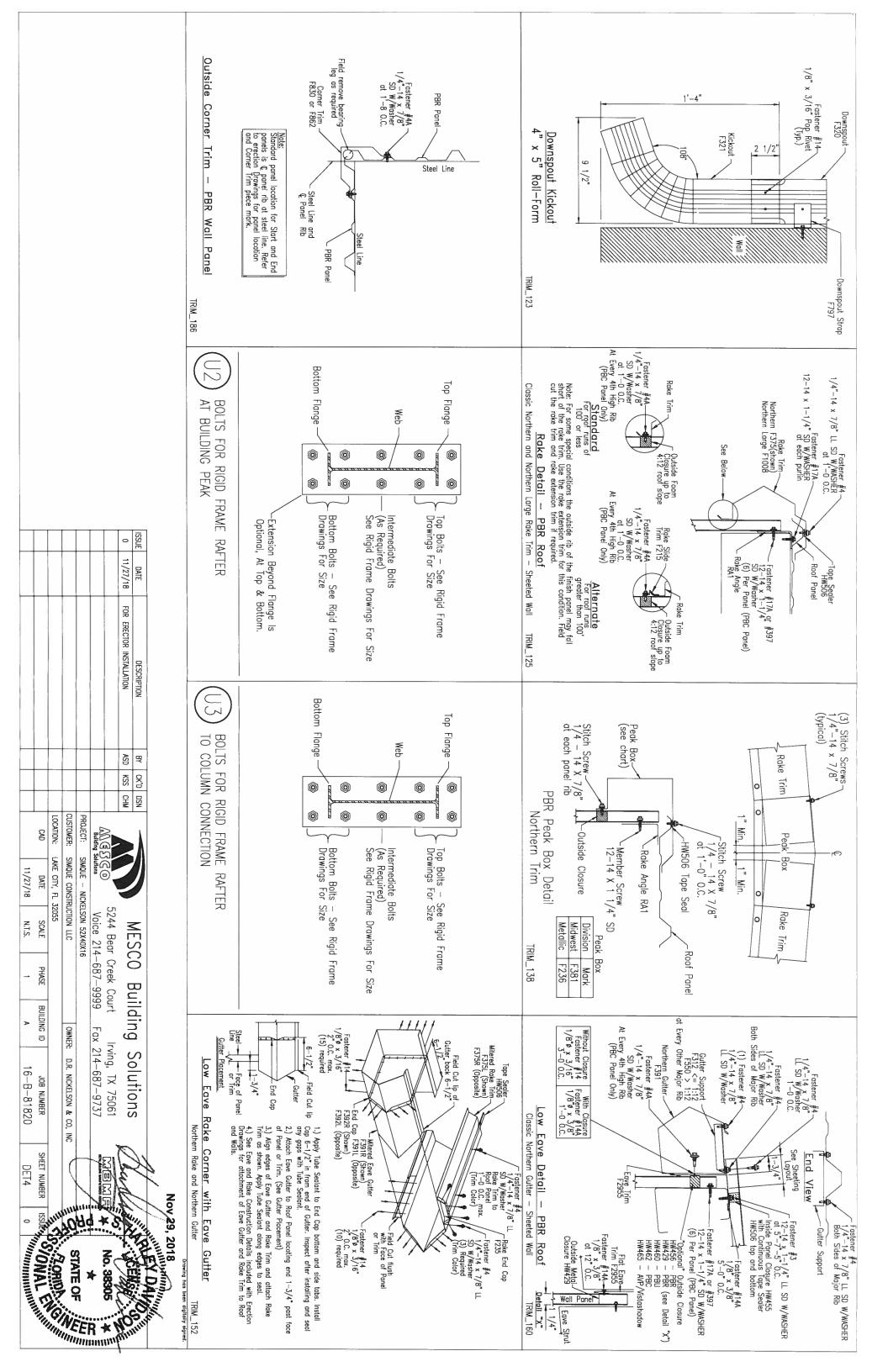


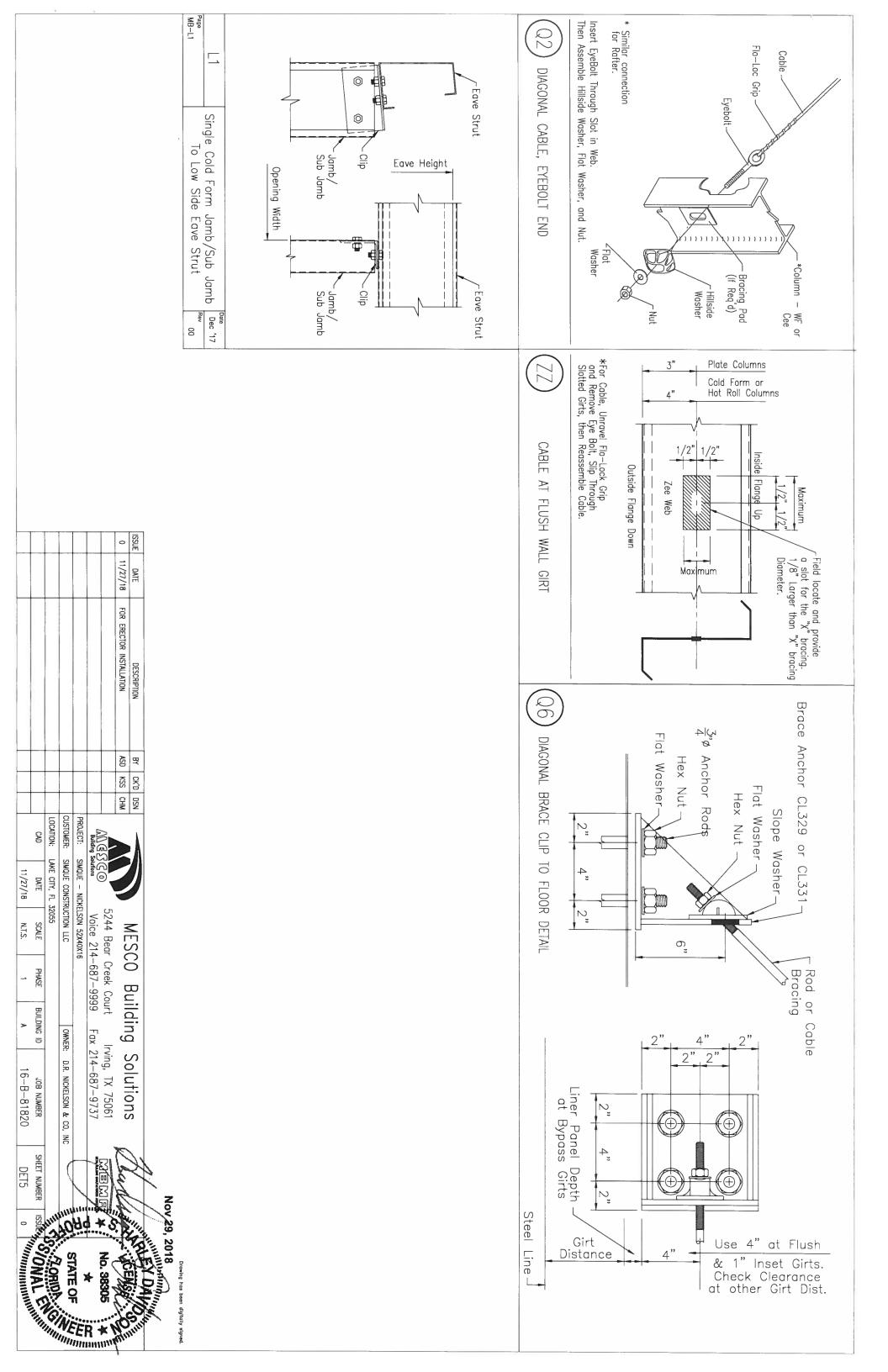


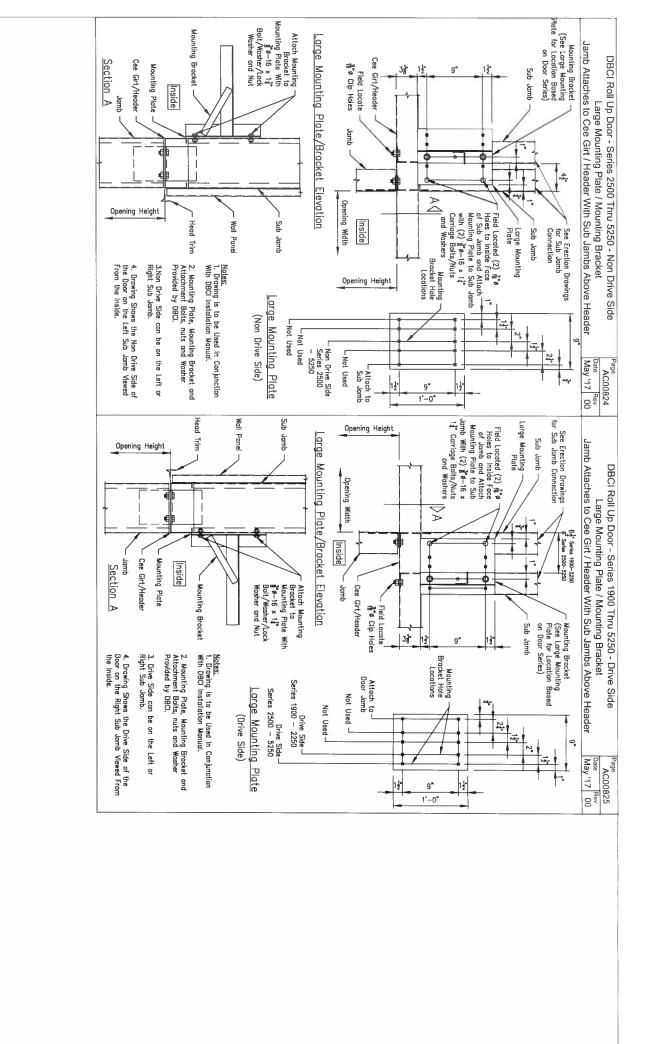


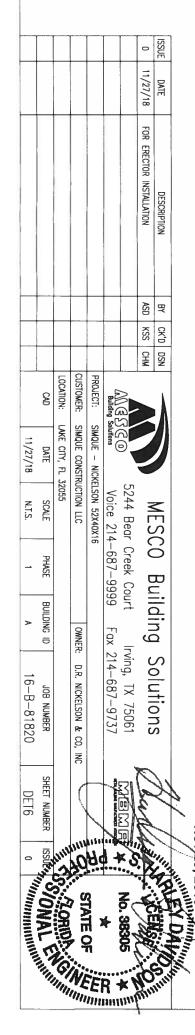


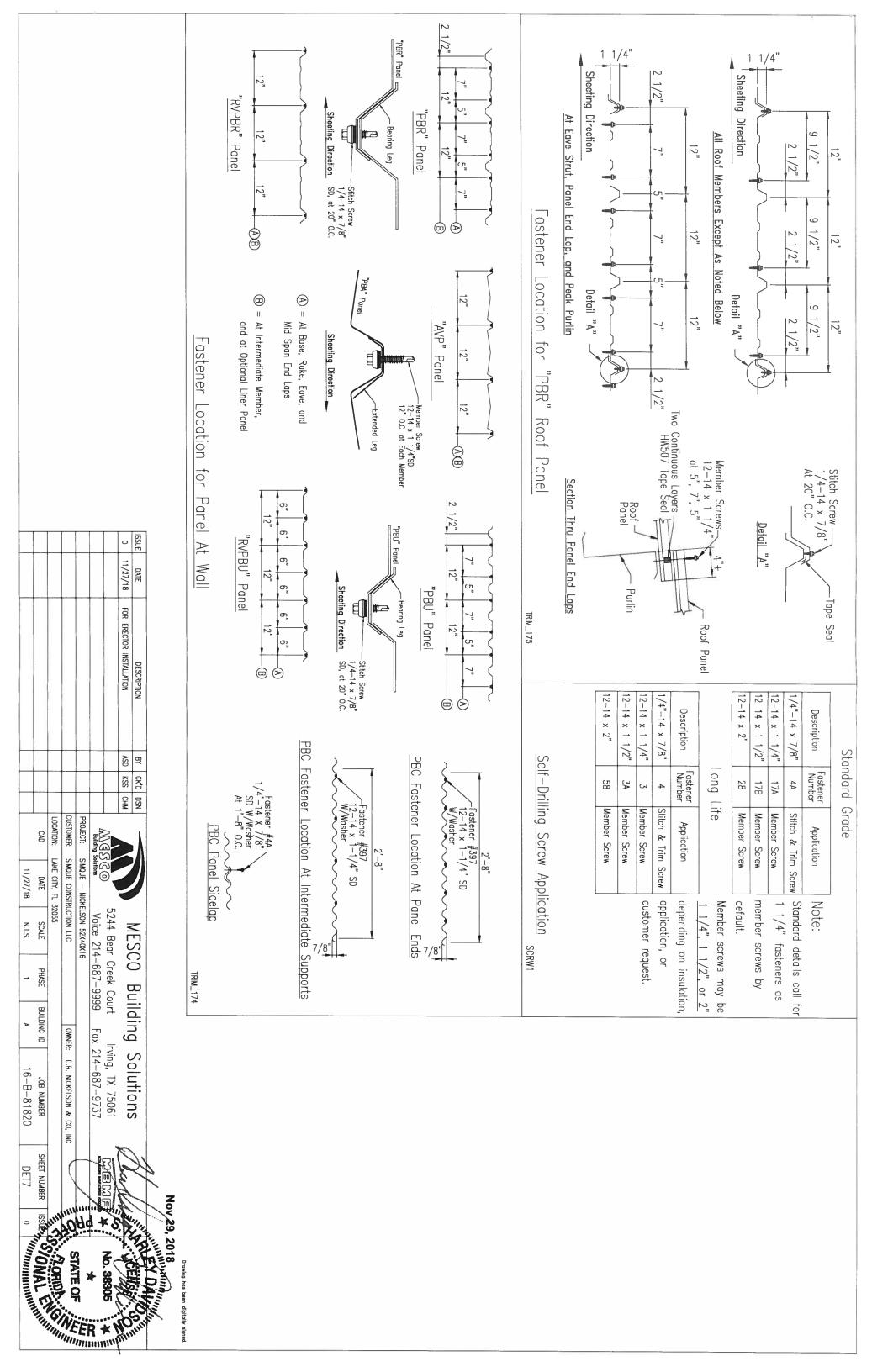


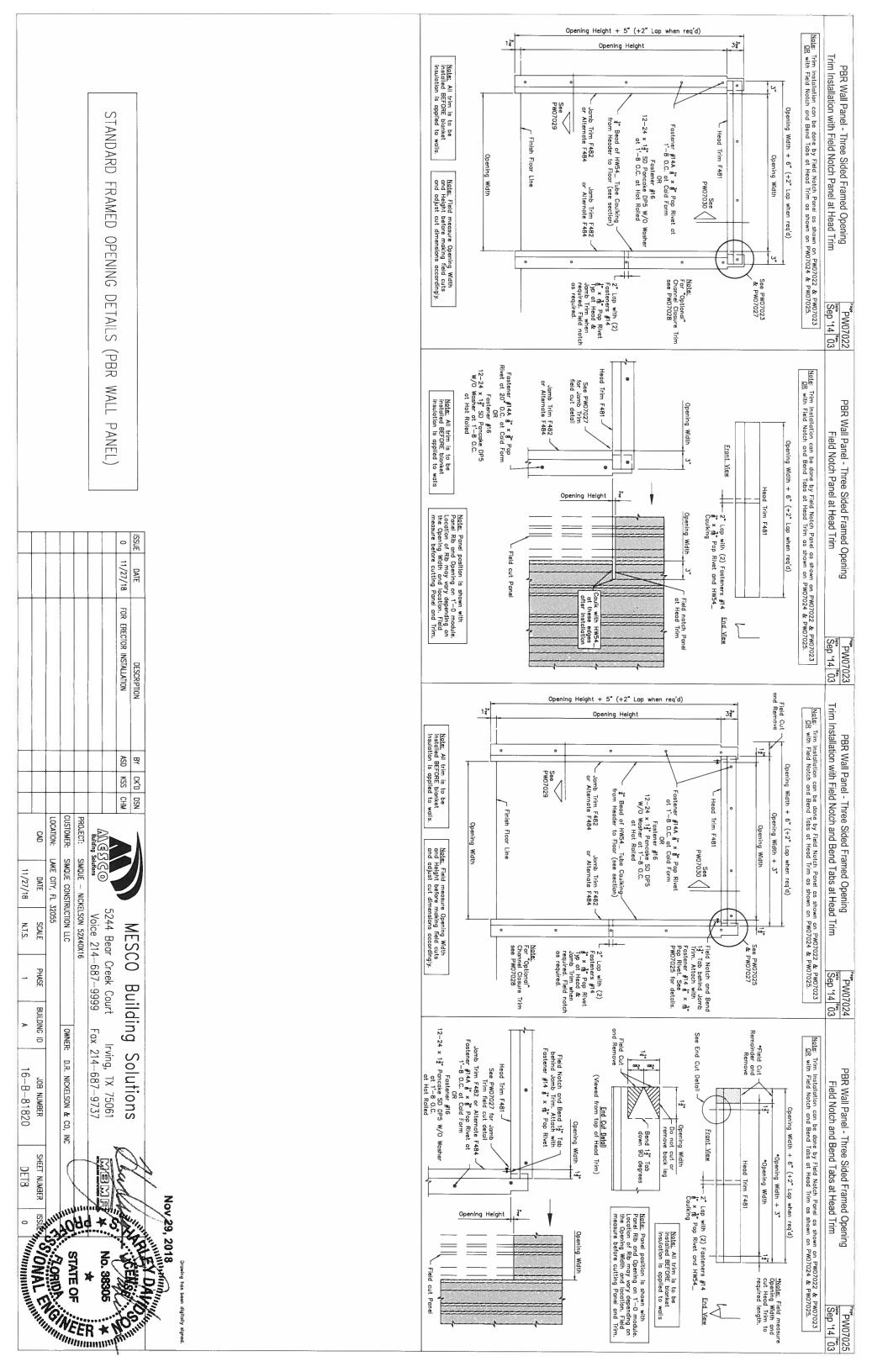


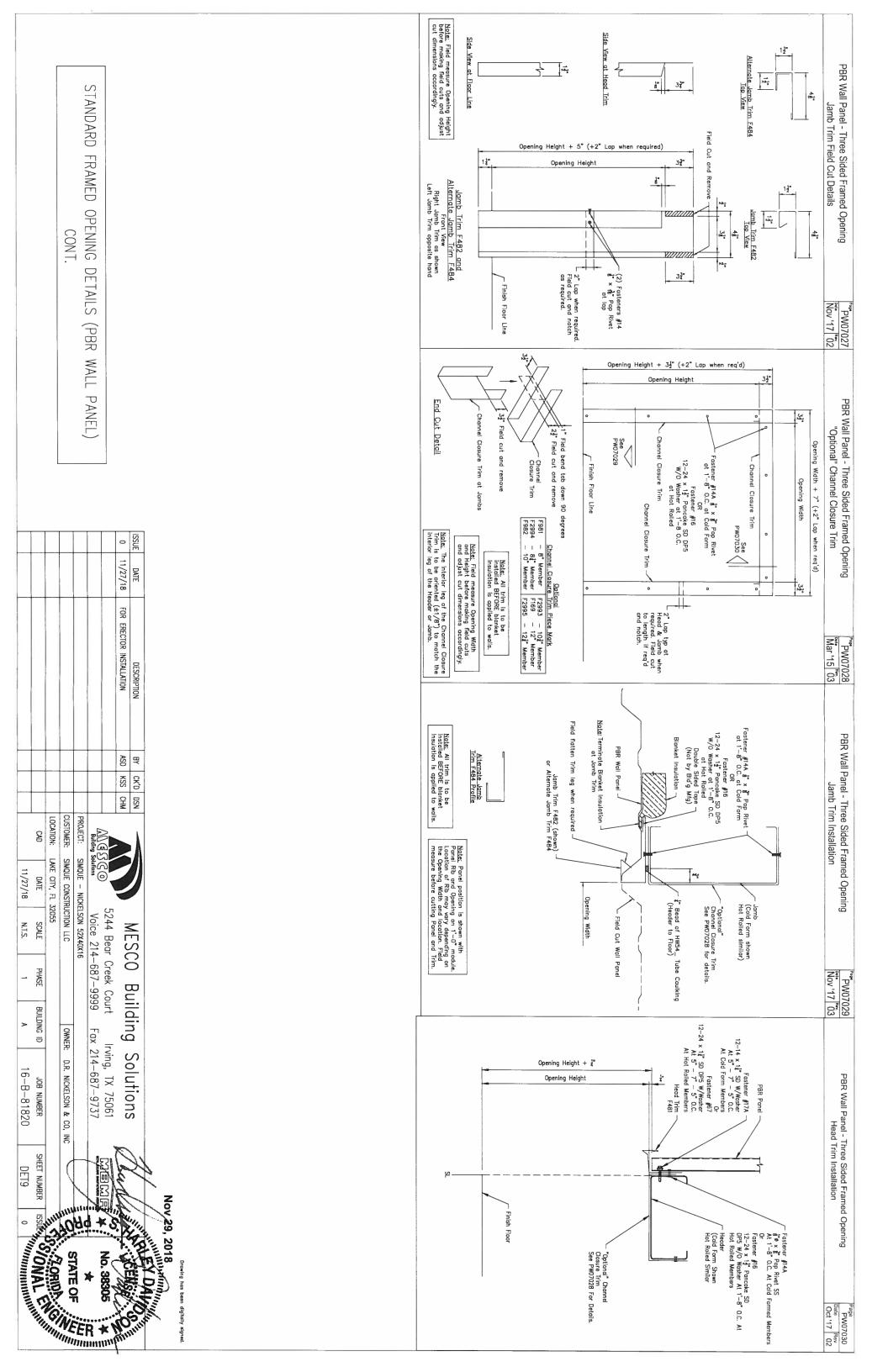


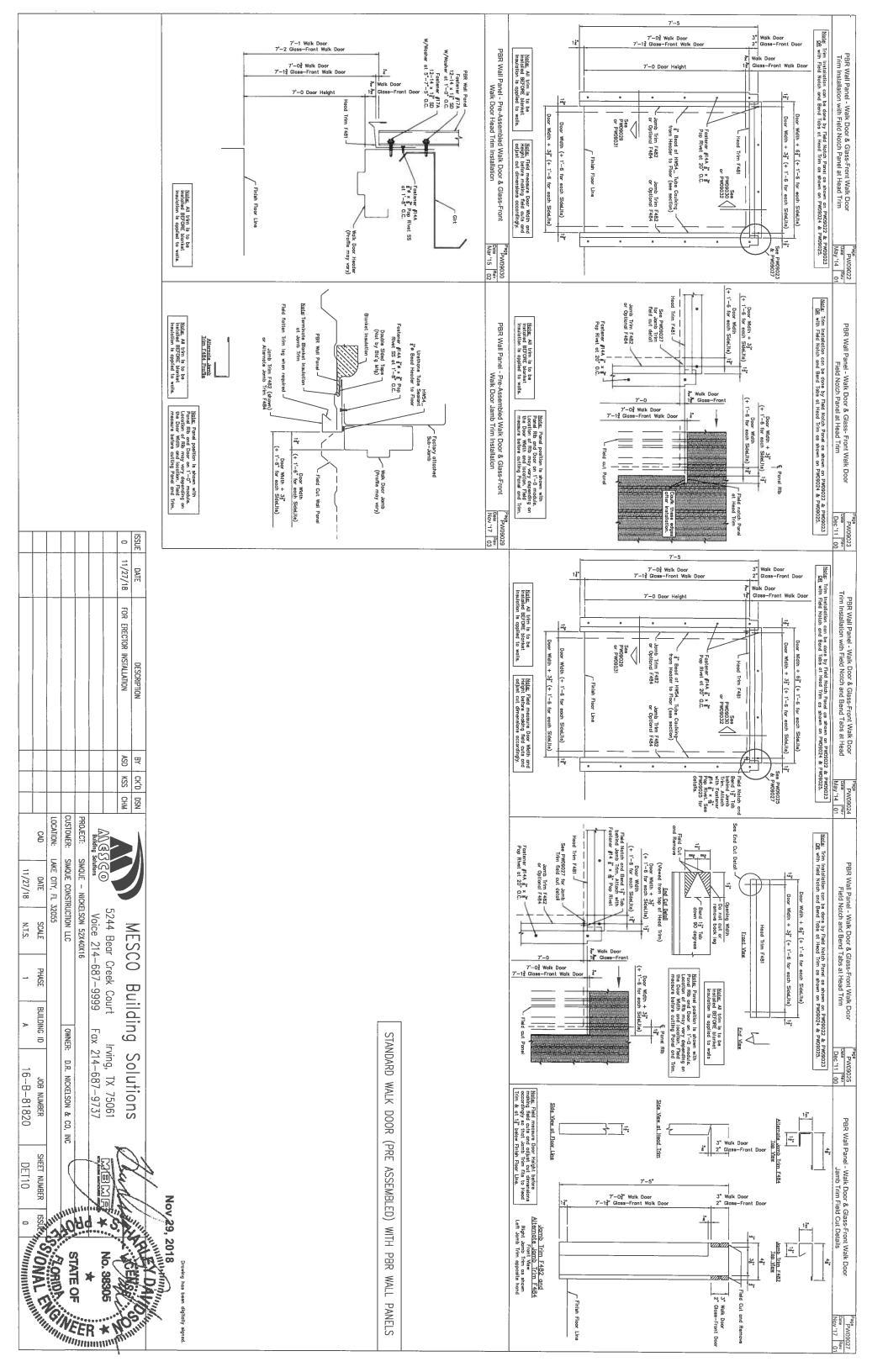


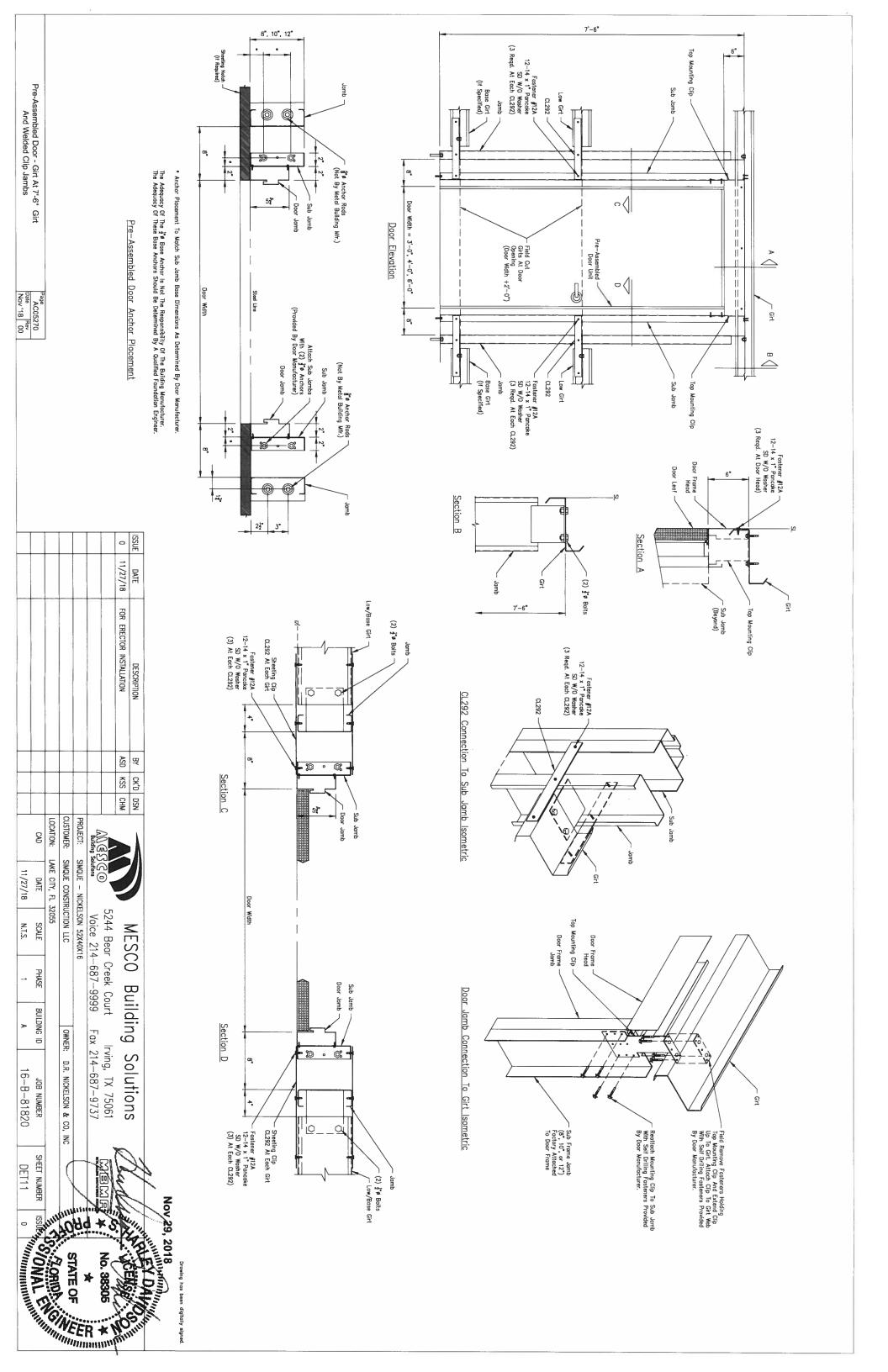












Field Service Procedures

er To Give You Prompt Services And Keep Problems To A Minimum, Hondle Any Shortoges Or Bock Changes in The Following Monner:
Carefully Check Your Pocking List Mile Unloading, United Service Opportment At The Number Shown in The Title Block As S As Passible. Calling Someone Else Could Delay The Proper Respons oading.

In And Notify The Field

In The Title Block As Soon

In The Proper Response.

INITIAL CLAM:
In The Event Of An Error, 1
Initial Claim" to The Manuf
"Initial Claim" to The Manuf
Materials Or Fabrication Err
The "Initial Claim" Includes: ror, The Customer Must Promptly Make A Written Or Manufacturer For The Carrection Of Design, Drafting, I n Error. r Verbal Bill Of

The Errors, Including Quantities. Proposed Corrective Work,

Initial Claim\* Includes:

1. Description of The Nature And Extent Of Propose

2. Description of The Nature And Extent Of Propose

3. Description of The Nature And Extent Of Propose

3. Materials To Be Furnhased From Other Than the
Estimated Quantities and Cost.

4. Maximum Total Cost of Proposed Corrective Work

4. Maximum Total Cost of Proposed Corrective Work

4. Maximum Total Cost of Proposed Corrective Work

5. Purchased From Other Than The Manufacturer. Work And Materials To the Manufacturer, Including

SHORT MATERIALS.

Immediately Upon Delivery Of Materials, Quantities Are To Be Verified Immediately Upon Delivery Of Materials, Quantities Are To Be Verified Delivery Upon Delivery Of Materials Shortages White Customer Against 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's Is The Manufacture, 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 Shipping Documents, But Are Less than The Shipping Documents, Claim is To Be Made To The Manufacturer.

Paid

DAMAGED OR DEFECTIVE MATERIAL:

Damaged Or Defective Material, Regardless of The Degree of Damage, Must be Damaged Or Defective Material, Regardless of The Customer And Acknowledged By The Noted On The Shipping Documents By The Customer And Acknowledged By The Carrier's Agent. The Manufacturer is Not Responsible For Material Damaged in Unloading of Pockages or Nested Materials, Including, But Not Limited To: Fasteners, Sheet Metol, "C" And "Z" Sections And Covering Panels That Become Wet And/Or Damaged By Water While in The Possession of Others, Pockaged Or Nested Material That Become Wet in Transit Must be Unpacked, Unstacked And Dried By The Customer Wet In Transit Must be Unpacked, Unstacked And Dried By The Customer Wet The Manufacturer, The Customer Must Make Claim For Damage To The Common Carrier, The Gustomer Must Make The Claim For Damage To The Common Carrier, The Gustomer Must Make The Claim For Damage To The Common Carrier, The Manufacturer is Not Lindle For Any Claim Mindswer Including, Blik Not Limited to Labor Charges of Consequential Damages Resulting From Customer's Use Of Damaged Or Defective Materials That Can Be Detected Inc. Viscol Incomer's Use Of Damaged Or Defective Materials That Can Be Detected Inc. Viscol Incomer's Use Of Damaged Or Defective Materials That Can Be Detected Inc.

EXCESSIVE MATERIAL:
The Manufacturer Reserves The Right To Recover Of Those Required By The Order Documents. Αŋy Material

DIL CANNING IS NOT A CAUSE FOR REJECTION

ypes

Of Finishes

SHOP PRIMED STEEL.

All Structural Members of The Metal Building System Not Fabricated of Cornsion All Structural Members of The Metal Building System Not Fabricated of Cornsion Resistant Madreid or Protected By A. Cornsion 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 Almaspheric Conditions. Shop Primed Steel Which Is Stored In The Field Pending Exection Should Be Kept Free Of The Ground And So Pasitioned As To Minimize Water Holding Pockets, Dust, Mud And Other Confamination of The Primer Film. Repairs Of Damaged To Primed Surfaces And/Or Removal Of Foreign Material Due To Improper Field Storage for Site Conditions Are Not The Responsibility Of The Shop Coat Of Primer Or Cornsola That May Result From Exposure to Almaspheric And Environmental Conditions, Nor The Compatibility Of The Primer To Any Field Applied Coating, Minor Abrasions To The Shop Coat (Including Galvenizing) Caused By Handing, Loading, Shipping, Unloading And Erection After Painting Or Galvenizing Are Unavoidable, (MBMA 2012, Chapter IV 4.2.4).

GALVALUHE:
Golviulme I her Trade Name For A Patented Steel Sheet And Coil Product Golviulme I her Trade Name For A Patented Steel Sheet And Coil Product Howing A Cooting Of Corrosion Resistant Aluminum—Zinc Aloy. The Mixture Is Bolanced To Obtain The Cooting 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 Cooting And Offer Added Service Life For The Building.

ş

<u>Pre-Pointed:</u>
Using Gonviume Steel As A Substrate, Pre-Pointed Steel Is Given An Additional Using Gonviume Steel As A Substrate, Pre-Pointed Steel Is Given An Additional Rust Inhibitor Primer Coat. This Primer Coat Further Increases The Corrosion Resistance. These Coalings Are Applied To The Exterior Surface Of The Ponel's And A Wash Coarl Designed Only For Interior Use, Is Applied On The Opposite Side Colvolume And Pre-Pointed Steel Con Give Excellent Service For Many Years 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.

A.

With A Clean a Remove

A Softening Of The Paint Film Con Occur With Pre-Pointed Steel Under Wet Storage Conditions And The Durability Of The Panel Finish Substantially Decrease. Storage Codwantzed And Galvalmer Panels React More Quickly To Surface Datadition Since They Lock The Additional Protection Of Paint. Zinc Coated Or Galvalume Panels Under Normal Exposure Form A Zinc Auminium Oxide Film On Their Surface Allowing A Slaw Oxidation Process Called "Weathering" To Oxcur That Inhibits Further Corrosion. In Nested Bundles Constant Contact Of The Panels Wit Condensed Or Trapped Water Prevents This Weathering Process.

Rub With A

PAINT AND COATING MAINTENANCE:
Remove Smudge Marks From Bara Golvalume:
Formula 409 Has Proven To Be Somewhat Effective. Lightly Rub With A Clean Formula 409 Has Proven To Be Somewhat Effective. Required To Remove Smudge Marks. No Product Will Remove All Snudge Marks.
Sort Scrub Without Bleach Has Proven To be Somewhat Effective. Rub With A Soit Cloth And Rhase With Water. Do Not Rub More Than Required To Remove Stoin. No Product Will Completely Remove Rust Stains.
Stoin. No Product Will Completely Remove Rust Stains.
To Touch-Up Scratches in Paint (Not Berne Metal):
Clean Area To Be Painted With Mild Defergent. Rinse Thoroughly And Dry.
Using A Small Artist's Brush, Lightly Apply A Minland Amount Of Color Matched Touch-Up Pain Required To Ril/Cover The Scratch. Contact The Building Manufacturer For Assistance With Ordering/Purchosing Touch-Up Faint As Needed.

Guide

Date Rev Jul '17 07

Page 꼬

Normal Erection Operations Include The Correction Of Minor Misfits By Amounts Of Reaming, Chipping, Welding Or Cutting And The Drawing of Elements Into Line Through The Use Of Drift Phis. Errors That Cannot Be Corrected By The Foregoing Means Or Which Require Major Changes In The Member Configuration Should Be Reported Immediately To The Owner And The Fobricator By The Erects, To Enable 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 Fault Of The Manufacturer An "Authorization For Corrective Work" Must Be Issued in Writing By The Manufacturer To Authorize The Corrective Work Mass He 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 The Field Service Department May Authorize Corrective Work. For Corrective Work

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

THE "FINAL CLAIM" MUST INCLUDE:

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

2. Taxes And Insurance On Total Actual Direct Labor.

3. Other Direct Costs On Actual Direct Labor.

4. Cost of Materials (Not Minor Supplies) Authorized By The Manufacturer

4. Cost of Materials (Not Minor Supplies) Authorized. 5

Invoices.

Total Actual Direct Cost Of Corrective Work (Sum Of 1, 2, 3, And 4).

Final Claims Are Credited To The Customer By The Manufacturer in 1

Amount Not To Exceed The Lesser Of The Maximum Total Cost Set F

In The "Authorization For Corrective Work" Or The Total Direct Cost Corrective Work. ). The Forth

\*\* IMPORTANT\_NOTE \*\*
Cost Of Equipment (Rental Or And Profit Are Not Subjected ) To Claims. Small Tools,

SHEMENT ARRIVAL TIME:
Every Effort Will Be Made To See That The Carrier Arrives At The Jobsite On The
Every Effort Will Be Made To See That The Carrier Arrives At The Jobsite On The
Requested Hour, Manufacturer Makes No Warranty And Accepts No Responsibility
For Costs Associated With A Shipment Not Arriving At The Requested Time Unless
A Separate Agreement Hos Been Made In Writing For A Guaranteed Arrival Time.

<u>Unloading, Handling And</u> Storage

STRUCTURAL:
A Great Amount Of Time And To
A Great At The Building Site And
Unloaded At The Building Site And
And Handling Of Components WR d Trouble Can Be Saved If The Building According To A Pre-Arranged Plan. P Will Eliminate Unnecessary Handling. ng Parts . Proper Are Location

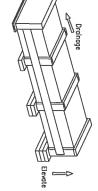
Blocking Under Columns And Rafters Protect The Splice Plates And The Slab From Blocking Under Columns And Rafters Protect It also Facilitates The Placing Of Slings And Cobles Avound Members for Later Lifting And Allows Members To Be Bolted Together Into Sub-resemblies White On The Ground, Extro Care Should Always Be Exercised in The Unloading Operation To Prevent Injuries From Handling Steel And To Prevent Damage To Materials And The Concrete Stab. If Water is Allowed To Remain For Extended Pariods in Bundles Of Primed Paris Such As Girts, Purlins, Etc., The Pignanet Will Facile And The Periot Will Gradually Soften Reducing Its Band 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 No. Be Allowed To Collect And Remain On Columns Or Rafters For Same Reason.

s Are Stenciled On in The End. Inspect At May Have Shifted C The Primary Structural Members All Shipments Prior To Releasing During Transit. s At The Lower E g The Tie-downs End.

The Coct Of Shop Primer is Intended To Protect The Steel Framing Only For A Short Period Of Exposure To Ordarry Atmospheric Conditions. The Coct Of Short Period Dees Not Provide The Uniformity of Appearance, Or The Durobility And Corrosion Resistance Of A Field Applied Finish Coat Of Paint Over Shop Primer.

CAUTION:
Core Should Always Be Taken When Walking On Panels. Use Safety Lines And Net Core Should Always Be Taken When Western Who Bry Any Moisture Or Surface Material That Has Puddle From Bundles Stored On A Stope. Dew, Frost, Or Other Forms O Moisture Greatly Increase The Stipperiness Of The Panels. Always Assume Panel Surface is Stippery And Act Accordingly. Never Walk Of Step On Skylights Or Translucent Panels.

Use Wood Blocking To Elevate And Slope The Panels In A Manner That Allows Mositure To Drain. Wood Blocking Placed Between Bundles Will Provide Additional Air Circulation. When Handling Or Uncrating The Panels, LUIR Rather Than Side Them Apart. Burned Edges May Scratch The Coated Surfaces When Sheets Are Sid Over One Another. Never Allow Panels To Be Walked On While On The Groun



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

Damage From Condensation Or Trapped Water It is Extremely important That The Panels Be Monitored For Evidence Or Trapped Water Or Moisture Condensation White 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 Bodies Of Water.

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

2. Inspect Urethane S

t And Reseal As Necessary All Roof Curbs Sealant. Roof For Damage After Heavy Storms.

> ş Other

Penetrations

균 #ith Roof Maintenance Guidelines

Always Roaf.

Get Manufacturer

Repaint Any Areas

That Are Susceptible To Rust Approvai Before

As Required. Any Modifications

it is Strongly Practices Be 1 T Re commended That Top Priority Of / Safe Any fe Working / Job Site. Conditions ā Accident Prevention

Local, State And Federal Safe Or Customary, Should Always Safety And health Standards, Wi ways Be Followed To Help Ensure Whether S ure Worker Standard Statuary r 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 Hord Hots, Rubber Safe Shoes For Root Wirk, Proper Equipment For Handling Material And Safety Nets Where Applicable Are Recommended

If Jobsite Covers Are Used, They Should Be Tied Away From The Bundle At Corners to Allow Air Circulation Around The Bundle. This Will Help Prevent Moleture Eupparding From The Ground Or Building Dione From Condensing On The Panels. Plastic Or Other Impermeable Covers Are Not Recommended. Immediate Action is Required if The Panels Are Found To Be Wet From Any Couse. The Bundles Must Be Opened And Each Panel 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 Asist In Keeping The Panel Dy, In Severe Conditions Large From Son Be Used To Circulate Air Between The Un-Stacked Panels And Accelerate Drying, Damage To The panel Coating Occurs When Panels Become Wet And Are Allowed To story wet, damage Con Occur To Nested Panels Within 24 to 48 Hours. This Damage Shows Corrosion And Discolaration of The Panel Surface And is Commonly Called Wet Storage. Stain, Zinc Oxidation, Or "White Rust".

The Purposes Of Determining Lift Requirements, No Bundle Supplied By The nufacturer Will Exceed 4,000 Pounds. For Further Information Also reference 6 Bill Of Materials For Individual Member Weights Of Structural Members. If the Committee of the Field Service Department.

ICE AND SNOW REMOVAL:

Excessive Ice And Snow Removal Should Be Removed From The Roof Immediately 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 remove The Ice Or Snow As This Can Damage The Paint And/Or Golvalume Coatings. Also Be Extremely Careful If Your Roof Has Light Transmitting Ponels. 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 Manual, Appendix AB For Details On Show Removed Procedures. These Procedures Should Commence When Half Of The Design Roof Snow Load Is Realized.

<u>DEBRIS REMOVAL:</u>
Any Foreign Debris Such As Sawdust,Dirt, Leaves, Animal Droppings, Etc. Wil Any Foreign Debris Such As Sawdust,Dirt, Leaves, Animal Droppings, Etc. Wil Cause Corrosino of The Roof, Gatters, 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 Galvaiume For Extended Periods Of Time.

₩.th

PERIODIC INSPECTION:
All High-Strength Shall Be Periodically Be inspected
All High-Strength Shall Be Periodically Be inspected
Crone Buildings And After Seismic Or Wind Activity, i
Specify A Minimum Period But It Should Not Exceed 장하

Of Gutter To Allow

DRAINAGE:

1. Keep Roof Free Of Debris And Keep Debris Ou

1. Keep Roof Free The Roof.

2. Do Not Use Wood Blocking To Hold Equipment

Blocks The Flow Of Water And Hold Moisture.

3. Do Not Allow Rooftop AC Units Or Exporative

Roof.

4. Anything That Trops Or Holds Moisture On A i

Corrossion.

Ropid Oxidation Of The Zinc or Zinc Aluminum Coating Can New 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 Bothtubs May Be Used On Pope Used On Post Stains Wife Brushing On Abrasive Materials Should be Avoided Since Scratching Or Removed Of The Coating Could Occur. Panel With Significant Damage Should Be Replaced By The Buyer Prior To Erection.

And Hold Equipment Off The And Hold Moisture. Units Or Evaporative Coolers To Drain Panel Seams. Onto The 캶

Tightness. Particularly In Crone Manufacturer Will Years.

When Performing Roof Maintenance, Always Take The Following Precautions.
a. User Fail Protection And Other Safety Protection As Required.
b. Do Not Wolk On Roof Flashing Such As Gutter, Rake, Hip Or Ridge Flas c. Do Not Wolk On Light Transmitting Panels (LTP's), They Will Not Support Person's Weight.
d. Guard All LTP's And Roof Openings.
e. Step Only In The Ponel Flat Directly On Or in Clase Proximity To A Supporting Roof Structural.

)r Ridge Flash Not Support

After Other Trades Have Been On The Roof For Any Reason, Inspect The Roof r Damage Caused by Workers Including Chemical Or Salvent Spills, Scratches in e Point Or Golvent Inspect The Point Or Golvent Inspect The Point Or Golventine Cooling, Excessive Foot Traffic And Purctures. Make Sure at All Debris Or Scrap Left Behind By Workers is Removed From The Roof medictely, Avoid Using Outoff Saws And Weding Equipment Over The Roof. The Must Adequately Protected.

For I

FOOT IRAFFIC:

Keep Foot Traffic To A Minimum. Heavy Foot Traffic Can Cause Ponding On Low Keep Foot Traffic. The Serve And At Endlaps.

All Fished Roots: This is Particularly True Just Upstope From The Eave And At Endlaps.

Always Walk in The Flot Of The Panel Near A Supporting Roof Structural. Do Not Walk On Trim Or in Guttern.

Always Walk To Trim Or in Guttern.

On Barre Galvalume Roofs, Excessive Foot Traffic May Cause Black Burnish Marks. If Regular Foot Traffic is Planned for A Roof, Provisions Snould Be Made For A Property Designed And Installed Walkeny System. In Order To Limit Access To The Roof, Roof Hatches Or Access Ladders Should Be Locked At All Times. A Sign Pasted At The Access Tale Stating That Only Authorized Personnel Are Allowed On The Roof. In Addition A Log Book Snould 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 An Dissimilar Metal Indusing But Not Limited To:
Capper, Lead Or Graphite, This includes Capper And Arsenic Salts Used in Lumber, Calcium Used in Concrete, Mortar And Graut. ş

And Wall

Panel Damage During Construction

Roof And Wall Panels

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

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

UNDER NO CIRCUMSTANCES SHOULD PANELS BE HANDLED ROUGHLY Packages Of Sheets Should Be Lifted Off The Track With Extreme Core Taken To Ensure That No Damage Occurs To Ends of The Sheets Or to Side Rbs. The Packages Should Be Stored Off The Ground Sufficiently High To Allow Air Circulation Underneth The Packages. This Avoids Ground Maisture 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 Hunid Air Become Trapped Between The Stacked Steets Whet Exposed To Rain. This May Discolarottion Grased By Trapped Moisture. The Stain Is Usually Superficial And Host Little Effect On The Aprendermace Or Service Life Of The Panels As Long As at Not Permitted On The Panels However, Moisture In Contact With The Surface Of The panels Over Air Extended Period Can Severely Attack The Finish And Reduce The Effective Service Life. See RI-07 Titled \*\*Opmage From Condensation Or Trapped Water\*\*. Overdriven Fastener's Cause Indentations Or Shallow Pockets in The Panel Around The Fastener Head. Rain Water Or Condensation Moisture Combined With Atmospheric Pollutants (principally Sufur Dioxides) And Dirt Particles Callect in These Pockets. The Combination Of Pollutants And Water Greates Acid Solutions That Will Cause Cornosion Damage To The Panel And Trastener. Rain Many 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 Soling Washer From Under The Head Creating A Leok At This Point Proper Torque Adjustment Of The Sorew Can Or Preferably The Use Of A Depth Gauge Will Eliminate The Problem Of Overdriven Fasteners.

It is Extremely important That All Drill Showings From The Installation Of Panel Fasteners And Fillings From The Sow Cutting Of Panels Be Removed From The Panel Surface. Corrasion Can Occur In A Matter Of Hours When These Shovings Of The Panel Surface. Corrasion Can Occur In A Matter Of Hours When These Shovings Of The Panel Surface. Corrasion Group Carl In The Stock Prior To Erection All Shovings When These Profiles And Panel Surface. Contents It is Importative That The Roof Be Swept Clean At Least Doily And Certainly At Job Completion. The Final Cleaning Of The Roof Should Be Done Prior To Installing The Gutter So That The Showings Are Nat Deposited Into The Custer And Left To Corrade. Any Other Foreign Objects Or Debris Left By Construction Personnel Should Also Be Removed From The Roof During The Freetion Of The Roof And The Installation Of Such Equipment As Air Condition Units, Etc...

is Extremely Important That All Drill Shovings From The Installation Of Panel sisteners And Fillings From The Saw Cutting Of Panels Be Removed From The namel Surface. Corresion Can Occur in A Natter Of Hours When These Shovings Or lings Are Not Removed And Are in Contact With Water Or Condensed Maisture. Hen Panels Are Pre-Drilled Or Cut In The Stack Prior To Eraction All Showings ust Be Cleaned From Both Sides of The Panel To Prevent Corrosion Of The rune By These Particles. It is Imperative That The Roof Be Swept Clean At Least and By These Particles. It is Imperative That The Roof Be Swept Clean At Least 194 And Certainly At Jub Completion. The Final Cleaning Of The Roof Should Be one Prior To Installing The Gutter So That The Showings Are Not Deposited Into the Gutter And Left To Corrode. Any Other Foreign Objects Or Debris Left By instruction Personnel Should Also Be Removed From The Roof During The Cection Of The Roof of And The Installation Of Such Equipment As Air Condition this Fig.

Person Walk In Ends A Severe, And/or Across Panel S

nel Walking On The Panel Can Couse Damage. Workmen Should Step Or The Broad Flat Areas Of The Panel And Avoid Stepping On The Panel and Edges Which Can Be Bent By Careless Honding, if This Damage is The Edges Must Be Straighten Prior To Erection Since The Appearance Weather Tightness Of The Panel Could Be Affected, Dragging One Panel Weather Tightness Of The Panel Could Be Affected, Dragging One Panel Another Can Cut Or Abrade The Coating Causing Unsightly Marks On The

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

Dirt Flied Agoinst The Exterior Woll Panels At The Foundation Will Cause Domage. This Dirt May Be Wet Or At Least Contain Some Moisture. May de Wet Or At Least Contain Some Moisture May Where This Dirt Or Mud Contacts The Panel. In Areas Where Lime Where This Dirt Or Mud Contacts The Panel. In Areas Where Lime Contain Dirt Or Mud Contacts The Panel. In Areas Where Lime Accelerated The Soil & Required, Corrosion Damage From The Soils Content Accelerated And Most Likely Be Savere. All Dirt Must Be Removed From Indi Wills At The Time Of Completion Of Work, Pre-Pointed Ponels May 1 Jouch—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 Entitle Ponel Stroud Be Considered

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



Panels May Collapse If Not Properly Secured

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 LIP's) Translucent Panels Can Never Be Considered As A Walking Surface.

Partially Attached Or Unattached Panels Should Never Be Walked On!

Do Not:

1. Step On Rib At Edge Of Panel.

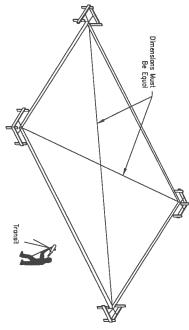
2. Step Near Crease in Rib At Edge Of Panel.

3. Step Within 5 Feet Of Edge On Unsecured Panel.

e Roof Panel Must Never Be Used As A Work Platform. An OSHA Approved Should Be Used For Work Platforms. (Consult OSHA Safety And Health ions For The Construction Industry). Safety First!

Premature

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

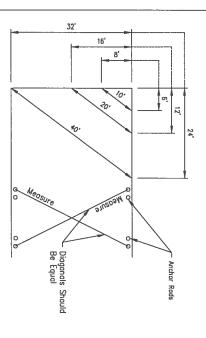


## Pre-Erection Notes:

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

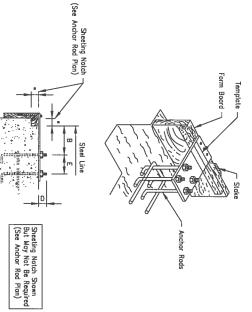
1.) Prior to The Time The Erection Crew Arrives, A Responsible Person Should Check The Job Site For Foundation Readiness, Square, And Accuracy And Anchor Rod Size And Location.

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

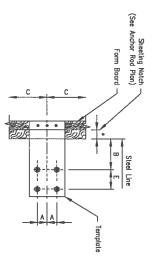


Measure Along Adjacent Sides Of Foundation Using A Pair Of Dimensions Shown. If The Diagonal Distance Between These Points is As Valed, The Corner is Square. Diagonal Measurements Between Opposite Anchor Rods Will Indicate if These Boits Are Set Square.

# 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 Similar Means, So That They Will Remain Plumb And In Correct Location During The Placement Of The Concrete. A Final Check Should Be Made After Completion Of The Concrete Work And Prior To The Steel Institution. This Will allow Necessary Corrections To Be Made Place To The Steel Institution. This Will allow Necessary Corrections To Be Made Before Costly Installation Labor And Equipment Arrives.

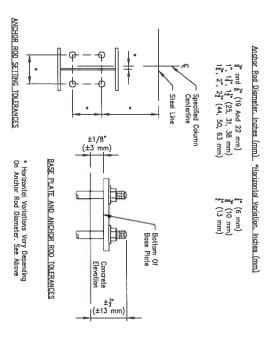


Projection Of Anchor Rods (D) Given On Anchor Rad Plan



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

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



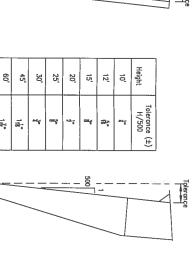
### Erection Tolerances

### Height ₽, 성 25 20' 苡 12 ő Folerance (±) H/500 캶 ₹;

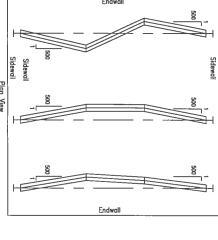
### MEZZANINE BEAM HEIGHT TOLERANCE Mezzanine Beam Mezzanine Beam Height ±1"

# COLUMN ALIGNMENT TOLERANCES

ERECTION BRACKIS:
It is The Responsibility Of The Erector To Determine, Furnish And Install All It is the Responsibility of Temporary Super Super As Temporary Super, Beams, Falsework, Cribbing, Or Other Elements Required For The Erection Operation (In Accordance With Section 7.10.3 Of ANSI/ASC 303, Code Of Standard Practice For Steel Building And



# ALIGNMENT TOLERANCE FOR MEMBERS WITH FIELD SPLICES



## Tape And Tube Sealant

Proper Tape And Tube Sealant Application is Critical To The Weather Tightness Of A Building, Tape Sealant Should Not Be Stretched When Installed. Apply only To Clean, Dry Surfaces. Keep Only Enough Sealants On The Roof That Con Be Installed in A Day, During Worm Weather, Store Sealants in A Cool Dry Place. During Cold Weather (below 60') Sealants in A Cool Dry Place. During Cold Weather (below 60') Sealants has Kept Worm (60'-90') Until Application. After Tape Scalant Has Been Applied, Keep Pratective Paper in Place Until Panel is Ready To Be Installed.

It is Emphasized That The Manufacturer is Only A Manufacturer Of Metal Building Components And is Not Engaged in The Institution 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 Customes Satisfaction With The Completed Building Are Determined By The Experience, Experies, 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.

## General Erection Notes

All Structural Framing Members, Purlins, Girls, Cips, Flange 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

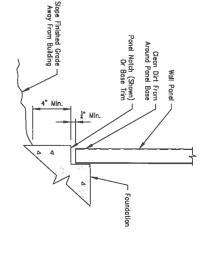
To Minimize Potential Of Corrosive Action At The Botton Contractor Must Assure That The Following Procedures n Edge Of Wall Panels, The Are Fallowed:

The Concrete Foundation Should Be Cured For A Minimum Of Seven (?) Days Before Woll Ponds Are Installed, (Uncured Concrete is Highly Abdaire And Metal Pands Can Undergo Varying Degrees Of Corrosive Atlack When In Direct Contact With The Concrete) After The First Week Of The During Opde, The Reaction Between Metallic Contings On Steel And The Concrete is Essentially Halted.

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.



## astener Installation

Correct Fastener Installation is One Of The Most Critical Panels. Drive The Fastener in Until it is Tight And The i Steps When Installing Roof/Wall Washer Is Firmly Seated. Do Not

Overdrive Fasteners.

A Slight Extrusion Of Neoprene Around The Washer is A Good Visual Tightness Check. Always A Slight Extrusion of Io Install Fasteners, A Fastener Inner (Scree Cun) With A RPM Of 1700–2000 Should Be Used For Self-Drilling Screes, A 500–600 RPM Fastener Driver Should Be Used For Self-Tapping Screes, Discord Worm Sockets, These Can Couse The Fastener To Wobble During Installation.

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



Too Loose Compression Of Sealing Washer

### Important Note

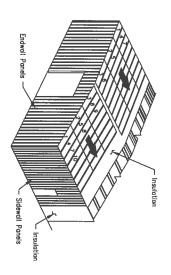
All Details, Recommendations And Suggestions Contained in This Exection Guide Of This Drowings Set Are For General Guideines Only, And Not Mennt To Be All-inclusives, industry Accepted Institution Practices With Regard To All Areas Not Specifically Discussed in This Section Should Be Followed, Only Experienced, Knowledgepable Installers Familior With Accepted Practices Should Be Used To Assure A Quality Project.

**Erection Guide** 

Date Rev Sep '17 09 몺

### PBR Roof Panels

For PBR Roofs With Ridge Panels, 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 Panel. This is Critical On The PBR Panels So That The Ridge Cops Can Be Properly Installed. Check For Proper Coverage As The Sheeting Progresses.



Install The First Run Of Roof Panels 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 Panel Must Be As Shown in The Rake Details included With The Erection Drawings. When The First Turn Is Properly Located And Aligned With The Correct Endlaps And Eave Overhangs, Fasten To Furlins. Roof Panels Should Be installed So That The Sideloys is in A Direction Away From Prevailing Wind. Refer To Appropriate Lap Details included With The Erection Drawings.

all Remaining Roof Insulation And Panels. To Avoid Accumulative Error Due is all Coverage Gain Or Loss, Properly Align Each Panel Before it is Fastened, assional Checks Should Be Made To Ensure That Carest Panel Coverage is natured. Special Attention Should Be Given To Fastener, Sediant and Clasure ulrements. Refer To Details included With The Erection Drawings.

At Finishing End Of Roof, The Last panels May Require Field Modification For Installation Of Rake Trim. Refer To Rake 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 shovings, Etc.. Must Be Removed From The Roof To Guard Against Corrosian.

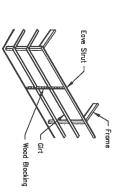
### Wall Panels

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 Well Installation Can Hove A Direct Impact On The Final Appearance And Performance Of The Installed Well 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

Cirt Leveling May Be Accomplished By Standing A Section Of Gable 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.

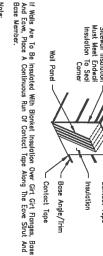
Temporary Girt Blocking Is Not Recommended On Concealed Fastener Panels. The Removal Of the Blocks After Panel Installation Can Cause Oil Canning.



Nate: Wall Panel Type And Installation Details Will Vary, Refer To The Erection Drawings And Details For The Specific Panel Used For Your Building.

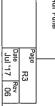


Erection Guide

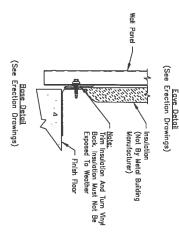


At The Base, Cut Off The Insulation A Minimum Of ½" Above The Bottom Of The Woll Panel. This Will Prevent The Insulation From Hangling Below The Wall Panel And Wicking Moisture.



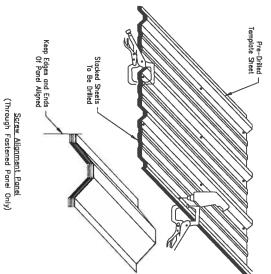


Note: Additional insulation May Be Required To Fill The Eave Strut And Prevent Condensation in Certain Climate Regions (Not By Metal Building Manufacturer) Double Faced Tape
To Be Used To Secure
Insulation. Fiberglass Insulation To OUTSIDE Of Building Wall Panel Roof Panel Note:
Trim Insulation And Turn Vinyl
Back, Insulation Must Not Be
Exposed To Weather Insulation (Not By Metal Building Manufacturer) Insulation
 (Not By Metal Building Manufacturer)



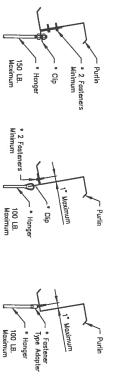
Sidewall Panels Should Be Installed So That The Panel Sidelop Is In A Direction Away From The Prevailing Wind. Refer To Appropriate Lap Detail Included With

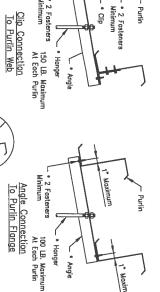
<u>Nate:</u> Check Periodically To Ensure That All Panels Are Aligned And Plumb



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

# Suggested Method Of Purlin Attachment For Building Accessories





Denotes Material Not Provided By Metal Building Manufacturer.

Do Not Install Purtin -Clips of any kind on the Flange of the Purtin

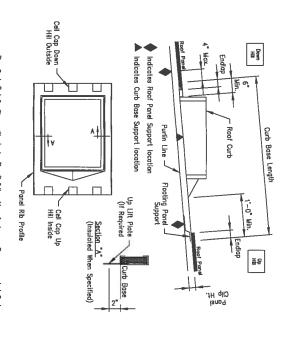
The Total Hanger Load Shall Not Exceed The Design Collateral Load For The Building, Example:
5-0 (Purlin Spacing) X 5'-0 (Hanger Spacing) X 6 PSF (collateral Load)
150 Lbs. See Cower Street For Design Collateral Load For This Building, Note: If The Building Is Designed For 0 PST Collateral Load, Then Adding Any Suspended System (Le. Duct Work, Piping, Lights, Ceilings, Etc.) Will Correspondingly Reduce The Design Live Load.

## Clip Connection To Purlin Flange Fastener Type Adapter To Purlin Flange

Vapor Barrier To INSIDE Of Building

Clip Connection
To Purlin Web

# 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 Erector/Installer's Responsibility To Provide The Proper Curb Style And Install Them in Accordance With The Procedures Established By These Details, Ediure By The Erector/Installer To Follow These Recommendations May Result in The Curbs Damaging The Roof System Or Excluded From Warnanties.

All Roof Curbs To Be:

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

2. Panel R87 To Panel R15 (No Flot Sairt Or Lay-Over Curbs).

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

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

5. Wind Loads Exceed 110 MPH.

5. Curb Bass Crosses A Purlin.

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

6. Maximum Single Curb Weight Recommended is 1500 Lbs.

Pipe.
Do Not Use Tube Sealant To S
Seder Between The Roof Jack
Roof Panel With Fastener #4 #
Base Of The Roof Jack
Trim The Top Of The Roof Jack
The Pipe and Apply Tape Seale
The Roof Jack And The Roof P
Stainless Steel Clamp (Not By
Tighten To Form A Secure Count
of The Pipe Diameter is So Lorg
Fatt Base Roof Guth Must Be
Sealed To The Curb. A Two Pie In Northern Climates, The Pipe Snow With A Snow Retention ! e Penetration Should Be Protected From Moving Ice Or System Immediately Up Slope From The Pipe.

Roof Jack Installation Jacks, Lead Hats, Or Other Residential Grade Roof Jacks ve 20 Year Service Life And In Case Of Lead Hats Will when Not Supplied By Building Manufacturer

With An Integral Aluminum Band Bonded Into The M Roof Jacks Hove A Temperature Range From -65T To s For High Temperatures. Silicone Roof Jacks Have A To 437F.

General Installation Notes
Do Not Use Golvanized Roof Jacks
These Roof Jacks Do Not Have 2
Cause Golvanic Corrosion Of The
Use EPDM Rubber Roof Jacks With
Perimeter Of The Base. EPDM R
2127. Use Silicone Roof Jacks Ket
Temperature Range Of —1007 To
Retrofit Roof Jacks Are Available
Inaccessible, Eliminating The Poss
Pioe.

ble For Applications in Which The Top Of The Pipe Is ossibility Of Silding The Roof Jack Over The Top Of The

ompression Sed.

Aurge To Block The Flow Of Water Down The Roof Panel, A carge To Block The Roof And The Roof Jack Will Be Installed Into The Roof And The Roof Jack Will Be Pipe Is

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

