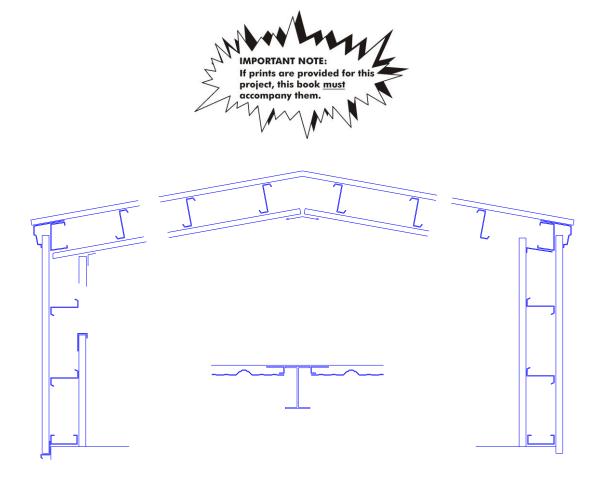
ADP-2 LINER PANEL

ERECTION GUIDE

4025 E. 23rd St. • Box 569 Columbus, Nebraska 68601



NOTE: See back side of cover for latest changes to this manual.

NOTE: If pink sheets are included in this manual, refer to them for latest revisions.

LATEST CHANGES		BY: SR	DATE: 10/2/17
PAGE	CHANGE		
2	Revised the fastener schedule		

FRAME BUILDING LINER TABLE OF CONTENTS

TITLE OR DESCRIPTION	PAGE NUMBER
General Information	2-5
Liner at Base	6
Liner at Girts	7
Liner at Eave Struts	8
Liner at Rake	9
At Columns By-Pass Girts	10
At Corners By-Pass Sidewall/Endwall Girts	11 & 12
At Columns – 1" Projection – Flush Girts	13
At Columns – 0" Projection – Flush Girts	14
At Corners Flush Girt	15, 16, & 17
Liner At Ceiling	18, 19 & 20
Liner At Self-Framing Window	21
Liner At Preassembled Window	22
Liner At Knocked-Down Door	23
Liner At Preassembled Door	24
Liner At Walk Door Rough Frame	25
Liner At Framed Opening	26 & 27
Liner At Framed Opening With Sill	28 & 29

The erection information presented herein is provided as a supplement to the erection drawings prepared for your specific job. The information, illustrations and procedures in this guide are typical for most Behlen buildings. Variations may occur because of special building requirements. Always refer to the erection drawings supplied with each job which will govern specific part and assembly arrangements and applicable illustration details.

Because Behlen products are constantly being improved, the information contained herein is subject to change without notice.

The following fastener schedule is to be used with this erection guide and will correspond to the fastener schedule in the erection drawings supplied with each job.

FASTENER SCHEDULE						
Loc.	Part No.	Description				
1		As Noted On Rigid-Frame Elevation				
2	3228100	Screw ¼ x 3/4 FL-TP SD WW				
3	3228084	Screw 12 x 1 HWH SD NW				
4	3228101	Screw 12 x 1-1/4 FL-TP SD WW				
(5)	3228105	Screw ¼ x 1-1/4 LG-LF SD WW				
6	3228099	Screw 8 x ½ HWH SD NW				
7						
8	3188333	Bolt ½ x 2 HVHX A325 GALV and Nut (1328191)				
9	1328199	Bolt 5/8 x 2-1/4 HVHX A325T GALV and Nut (1328195)				
10	1328187	Bolt ¾ x 1-1/2 HVHX A325T GALV and Nut (1328192)				
11)	1328190	Bolt ¾ x 2-1/2 HVHX A325T GALV and Nut (1328192)				
12)	3228100	Screw ¼ x 3/4 FL-TP SD WW for ADP-1 Roof				
	3228103	Screw ¼ x 3/4 LG-LF SD WW for SSR				
13)	3228101	Screw 12 x 1-1/4 FL-TP SD WW for ADP-1 Roof				
	3228105	Screw ¼ x 1-1/4 LG-LF SD WW for SSR				
14)	3228087	Screw 12 x 1-1/4 HWH SD #5PT NW				
15)	1328193	Bolt ½ x 1-1/2 HVHX A325T GALV and Nut (1328191)				
16	3208170	Bolt ½ x 1 FLT RD HD A307 PLTD and Nut (2688007)				
17)	3228102	Screw 12 x 2 FL-TP SD WW				

Abbreviations

HD = Head

SD = Self-Drilling

ST = Self-Tapping

SS = Stainless Steel

PT = Point

RD = Round

WW = With Washer

NW = No Washer

FLT = Flat

HVHX = Heavy Hex

GALV = Galvanized

PLTD = Plated

HWH = Hex Washer Head

FL-TP = Flat Top

LG-LF = Long Life

ERECTION INFORMATION

Liner panel sidelaps shall be stitched together with a ② fastener at 24" centers.

HANDLING LONG TRIM COMPONENTS

When removing long trims from the shipping crate and during installation, care should be taken by construction workers to avoid damage caused by buckling.



STOP...PLEASE READ

RECOMMENDED INSTALLATION FOR SELF-DRILLING TAPPING FASTENERS TO INSURE FASTENER PERFORMANCE.

- * Apply with 1800 RPM electric screw gun.
- * Drive socket size must fit appropriately to fastener head.

Socket Types:

1. **Super Star Socket** - Used for long-life non-magnetic screw heads. Can be used with carbon screw to avoid drill chips collecting on magnetic sockets.

Inland Part No. - 1/4" (3518045) 5/16" (3518046) 3/8" (3518047)

2. **Non-magnetic** - Used by erectors on roofing applications, mainly to avoid drill chips collecting in sockets.

Special Order - 1/4" 5/16" 3/8"

Drilling/Driving fastener must be held perpendicular to the fastening surface.

Self-Drilling fasteners should not be forced in. Allow the drill point to do the work.

- CAUTION -

Over-torquing may result in fastener separation/failure (head popping off). Care should be exercised during installation.

Torque of 30-60 in. lbs. Based on fastener size and application.

FOR APPLICATION SUPPORT, CONTACT:

ATLAS BOLT & SCREW TECHNICAL SERVICES (800) 321-6977

Inland Buildings (800) 438-1606

*1800 RPM screw guns and sockets are available at your local tool house or from:

Dynamic Fasteners 1-800-821-5448

HANDLING LONG TRIM COMPONENTS

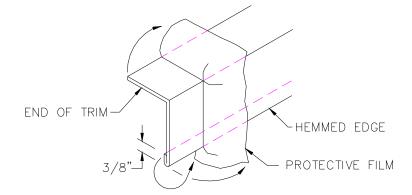
When removing long trims from the shipping crate and during installation, care should be taken by construction workers to avoid damage caused by buckling.

PROTECTIVE FILM REMOVAL

The trim components received with this building have a protective film on the colored surface that must be removed prior to installation.

Prolonged exposure (more than 3 weeks) to rain and/or sunlight will adversely effect the protective film making removal difficult.

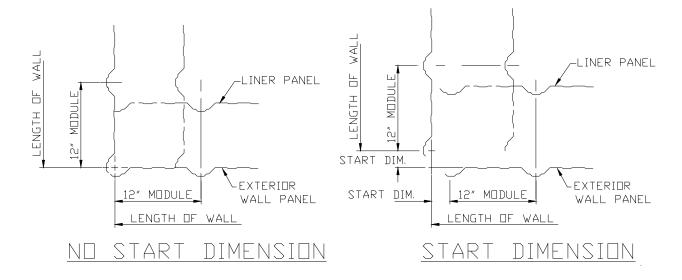
When film is being removed from trim having a hem along its edge, the film should be peeled off along the entire end. This includes the 3/8" hemmed area on the back side. Pull the entire film strip at a constant rate. Do NOT try to rip the film off as it will tend to tear at the hemmed edge and corners leaving a strip that will have to be removed separately.



RELATIONSHIP OF LINER PANEL AND EXTERIOR PANEL RIBS

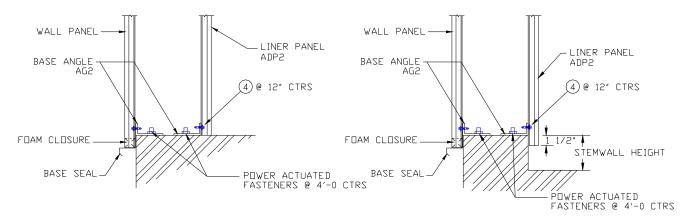
Liner panels for a complete sidewall or endwall surface have been detailed with a process similar to the exterior wall panels. The location of the liner panels is based on the length of the exterior wall surface and whether there is a "Start Dimension" at each end of the wall surface. This detailing process will keep the liner panel ribs and the exterior panel ribs in line.

During the erection process, the sidewall liner panel locations may start or stop at J-trims as desired but on the endwall surface, the liner panel length may be insufficient if moved to some other location.

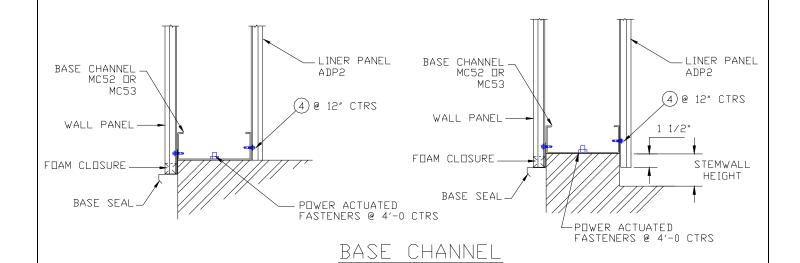


5 11-8-99

LINER AT BASE



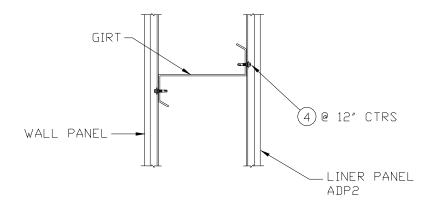
BASE ANGLES



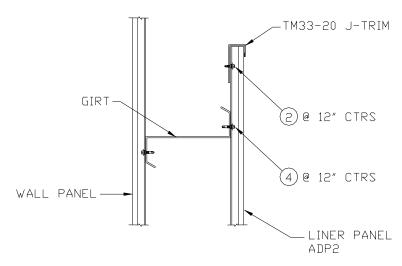
WALL PANEL WALL PANEL LINER PANEL LINER PANEL ADP2 ADP2 (4)@ 12" CTRS (4)@ 12" CTRS BASE ANGLE BASE ANGLE AG2 AG2 FOAM CLOSURE. FOAM CLOSURE. 1 1/2 STEMWALL BASE ANGLE/SEAL-HEIGHT ONE-PIECE BASE ANGLE/SEAL POWER ACTUATED FASTENERS @ 4'-0 CTRS POWER ACTUATED FASTENERS @ 4'-0 CTRS

ONE-PIECE BASE ANGLE/SEAL

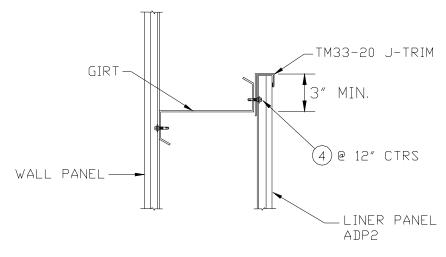
LINER AT GIRT



AT GIRT



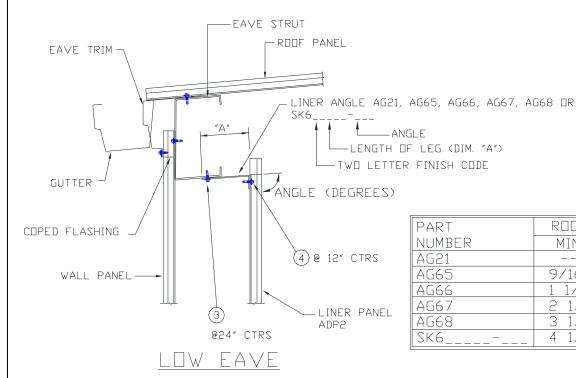
ENDING NEAR A GIRT



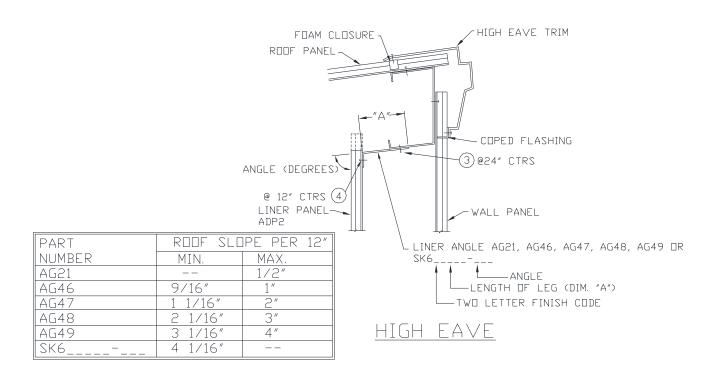
ENDING AT A GIRT

12-17-03

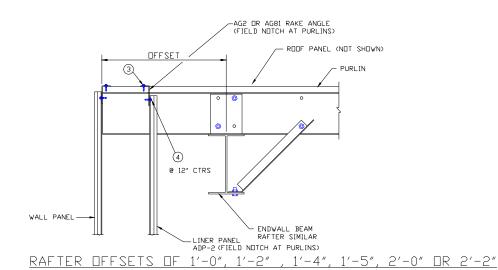
LINER AT EAVE STRUT

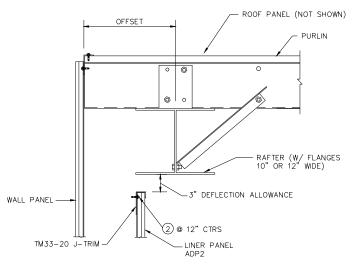


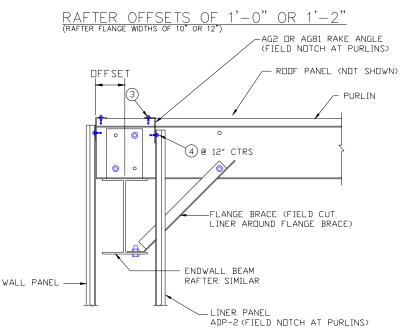
PART	ROOF SLC	IPE PER 12"
NUMBER	MIN.	MAX.
AG21		1/2"
AG65	9/16″	1"
AG66	1 1/16"	2"
AG67	2 1/16"	3″
AG68	3 1/16"	4 "
SK6	4 1/16"	



LINER AT RAKE



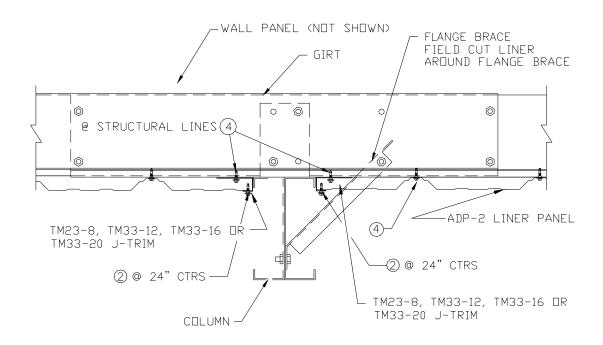




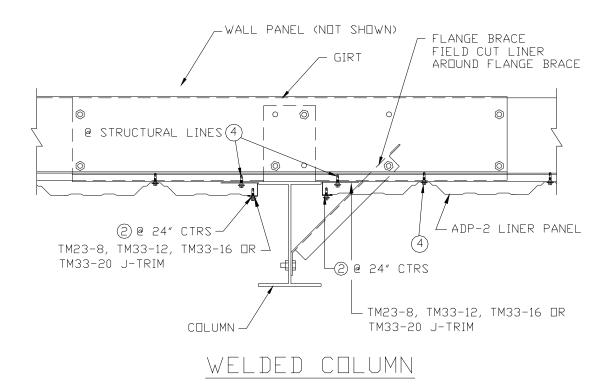
RAFTER OFFSETS OF 4" OR 5"

9/21/05

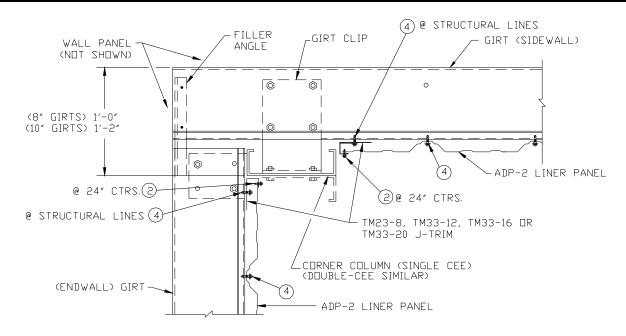
LINER AT COLUMNS – BY-PASS GIRTS



DOUBLE CEE COLUMN (SINGLE CEE IS SIMILAR)

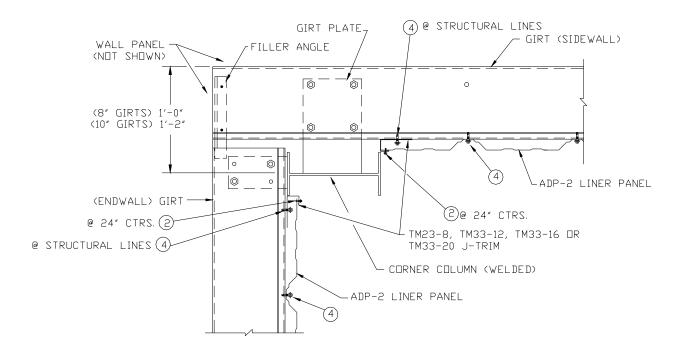


LINER AT CORNER – BY-PASS SIDEWALL/ENDWALL GIRTS



CORNER COLUMN (SINGLE CEE OR DOUBLE-CEE)

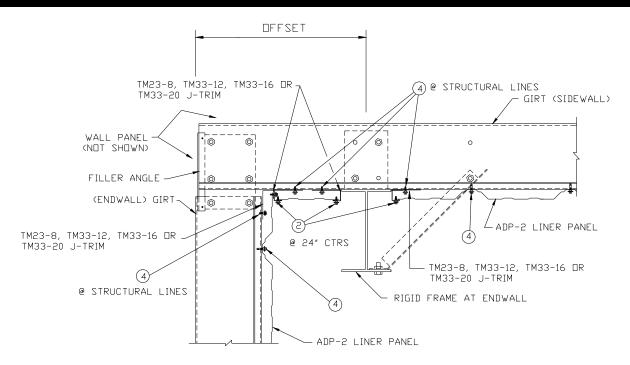
- BY-PASS SIDEWALL GIRT
- BY-PASS ENDWALL GIRT



CORNER COLUMN (WELDED OR DOUBLE-CEE)

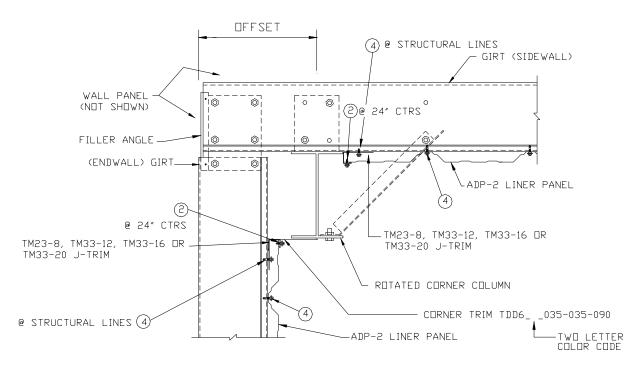
- •BY-PASS SIDEWALL GIRT
- •BY-PASS ENDWALL GIRT

LINER AT CORNER - BY-PASS SIDEWALL/ENDWALL GIRTS



RIGID FRAME AT ENDWALL W/1'-4" OR MORE OFFSET

- •BY-PASS SIDEWALL GIRT •BY-PASS ENDWALL GIRT

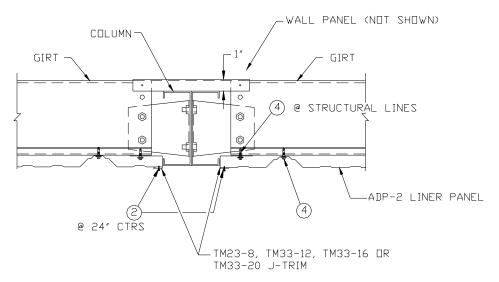


ROTATED CORNER COLUMN W/1'-0" OR 1'-2" OFFSET

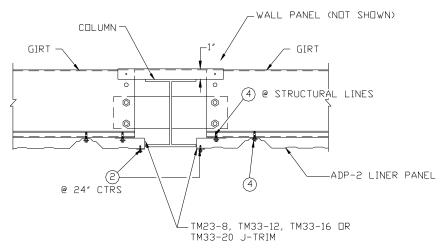
- •BY-PASS SIDEWALL GIRT
- BY-PASS ENDWALL GIRT

12 12-17-03

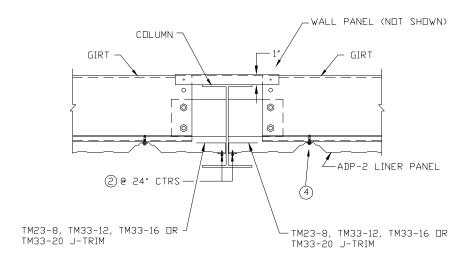
LINER AT COLUMN - 1" PROJECTION - FLUSH GIRTS



DOUBLE CEE COLUMN (SINGLE CEE IS SIMILAR)

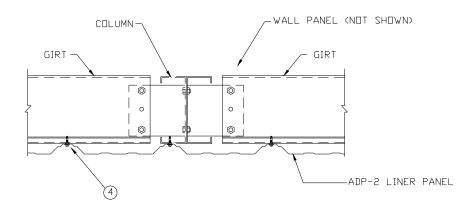


WELDED COLUMN W/DEPTH EQUAL TO GIRT DEPTH

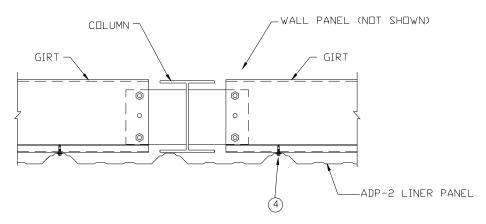


WELDED COLUMN W/DEPTH GREATER THAN GIRT DEPTH

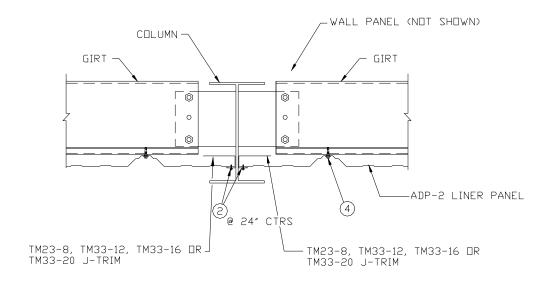
LINER AT COLUMNS - 0" PROJECTION - FLUSH GIRTS



SINGLE OR DOUBLE CEE COLUMNS



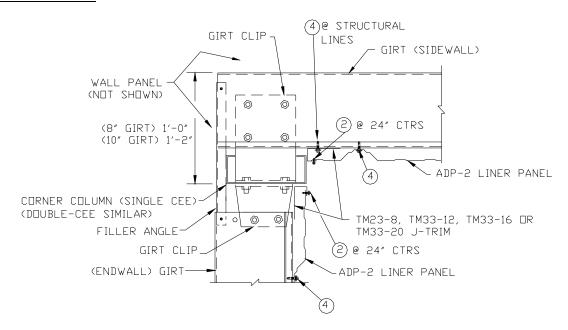
WELDED COLUMN W/DEPTH EQUAL TO GIRT DEPTH



WELDED COLUMN W/DEPTH GREATER THAN GIRT DEPTH

LINER AT CORNER - FLUSH SIDEWALL/ENDWALL GIRTS

1 INCH GIRT PROJECTION



CORNER COLUMN (SINGLE-CEE) (DOUBLE-CEE CORNER COLUMN SIMILAR)

- •FLUSH SIDEWALL GIRT •FLUSH ENDWALL GIRT
- 4)@ STRUCTURAL GIRT PLATE-LINES - GIRT (SIDEWALL) WALL PANEL (NUT SHOWN) 0 0 (8" GIRT) 1'-0" (2)@ 24" CTRS 0 0 (10" GIRT) 1'-2" ADP-2 LINER PANEL (START AND STOP LINER CORNER COLUMN PANEL AS DESIRED) •! 0 0 TM23-8 J-TRIM (PARTIAL HEIGHT LINER) 0 FILLER ANGLE-TM33-20 J-TRIM (FULL HEIGHT LINER) GIRT CLIP (4 2)@ 24″ CTRS (ENDWALL) GIRT-ADP-2 LINER PANEL (START AND STOP LINER PANEL AS DESIRED)

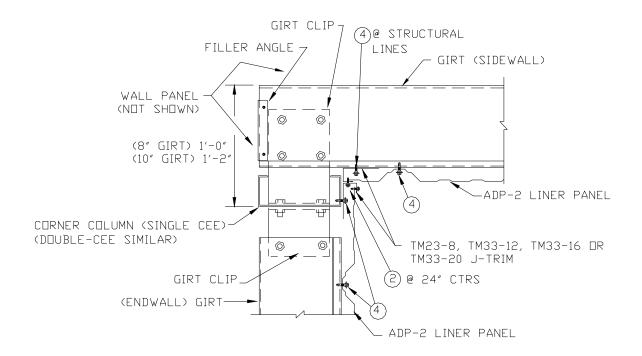
ORNER COLUMN (WEI

- •FLUSH SIDEWALL GIRT •FLUSH ENDWALL GIRT

15 12-17-03

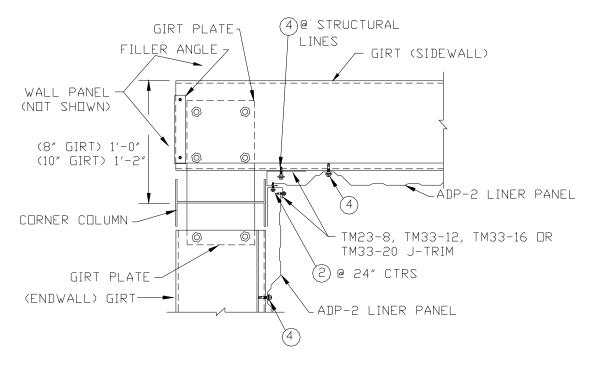
LINER AT CORNER - FLUSH SIDEWALL/ENDWALL GIRTS

0 INCH GIRT PROJECTION



CORNER COLUMN (SINGLE-CEE) (DOUBLE-CEE CORNER COLUMN SIMILAR)

•FLUSH SIDEWALL GIRT •FLUSH ENDWALL GIRT

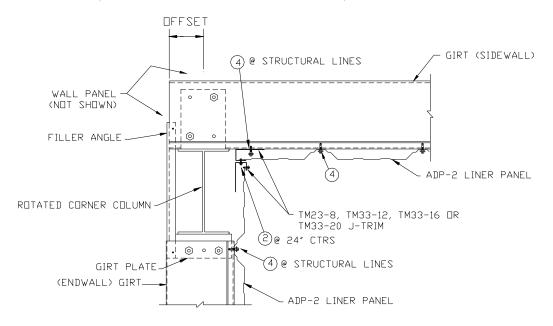


CORNER COLUMN (WELDED)

- •FLUSH SIDEWALL GIRT
- •FLUSH ENDWALL GIRT

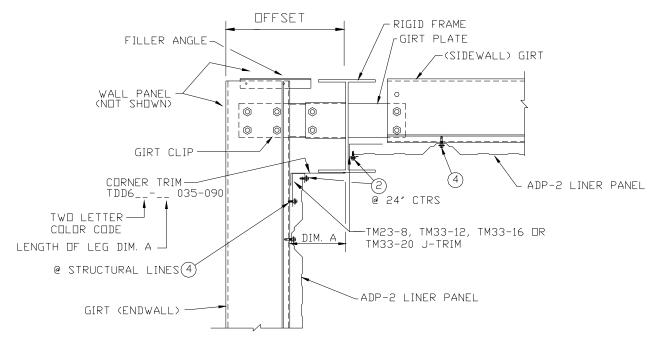
LINER AT CORNER - FLUSH SIDEWALL/ENDWALL GIRTS

0 INCH GIRT PROJECTION (1 INCH GIRT PROJECTION IS SIMILAR)



ROTATED CORNER COLUMN W/4" OR 5" OFFSET

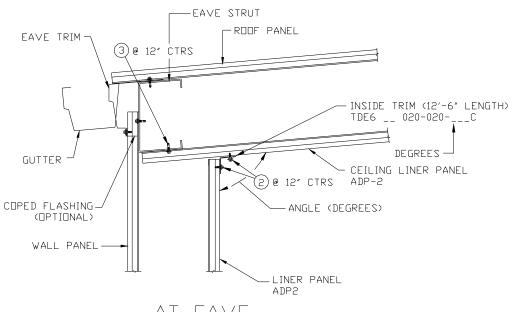
•FLUSH SIDEWALL GIRT •FLUSH ENDWALL GIRT



RIGID FRAME AT ENDWALL W/1'-4" OR 1'-5" OFFSET

- FLUSH SIDEWALL GIRT
- FLUSH ENDWALL GIRT

LINER AT CEILING

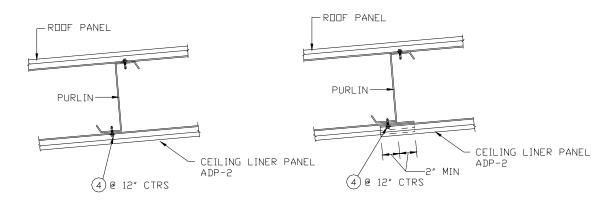


AT EAVE

LINER TO PURLIN

RIGID FRAME RAFTER

TM33-20 J-TRIM



PURLIN FLANGE BRACE PURLIN LINES 4 PURLIN LINES 4 PURLIN LINES 4 ADP-2 CEILING LINER PANEL (START AND STOP LINER PANEL AS DESIRED)

LAP OF LINER AT PURLIN

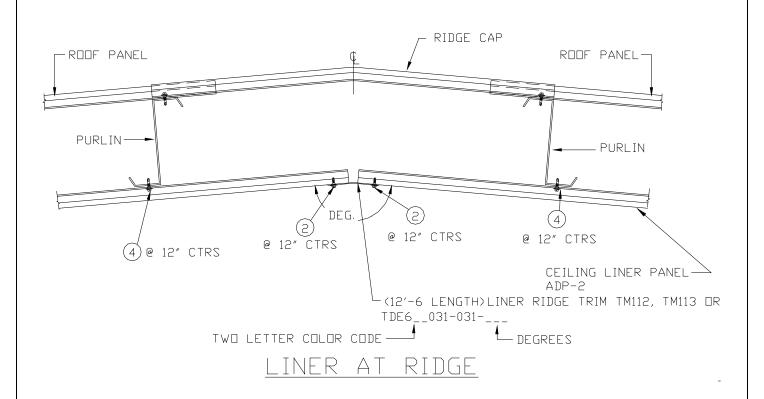
- TM33-20 J-TRIM

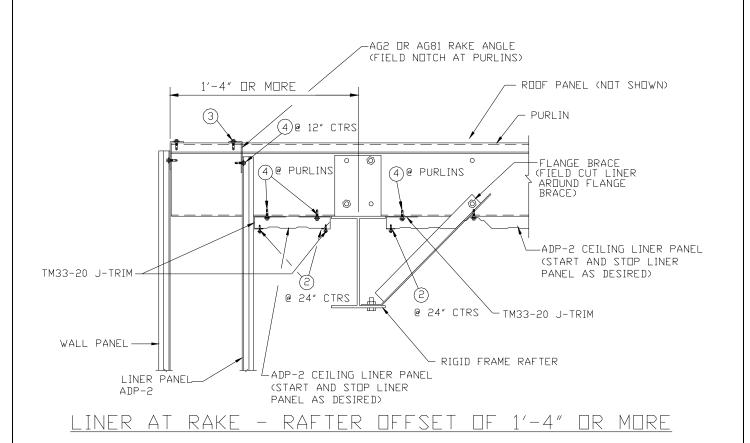
LINER AT RAFTER

18

6/18/04

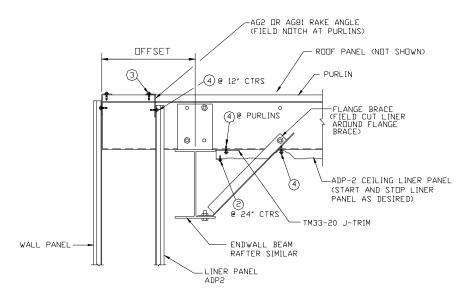
LINER AT CEILING



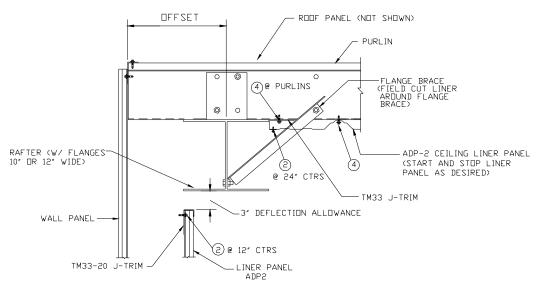


9/21/05

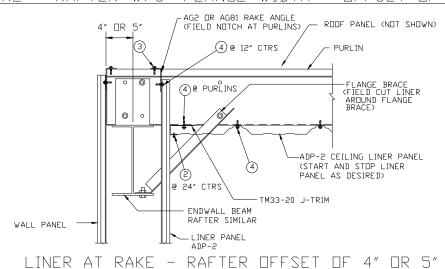
LINER AT CEILING



LINER AT RAKE - RAFTER W\6" MAX. FLANGE WIDTH - DFFSET DF 1'-0" DR 1'-2"

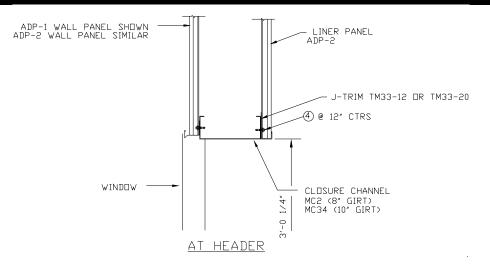


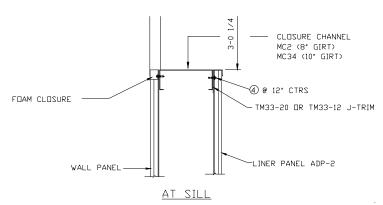
LINER AT RAKE - RAFTER W/8" FLANGE WIDTH - OFFSET OF 1'-0" OR 1'-2"

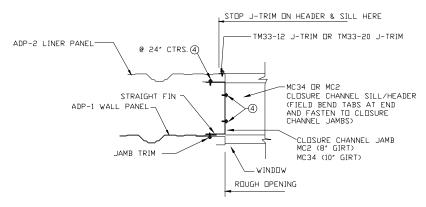


20 9/21/05

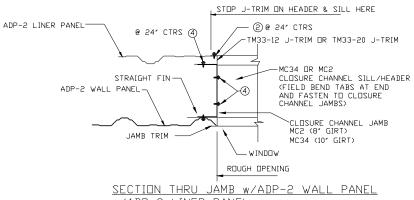
LINER AT SELF-FRAMING WINDOW







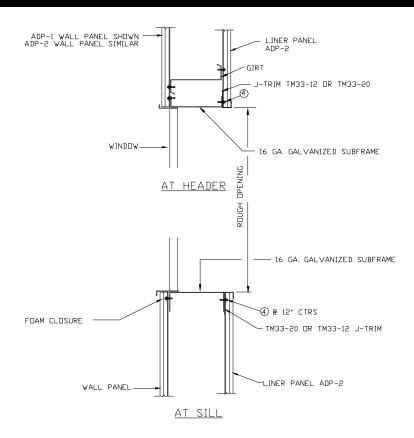
AT JAMB WITH ADP-1 WALL PANEL

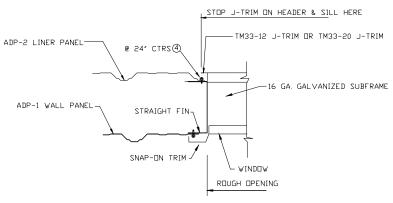


21

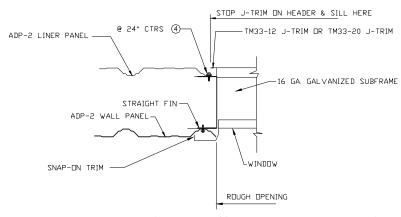
w/ADP-2 LINER PANEL

LINER AT PREASSEMBLED WINDOW



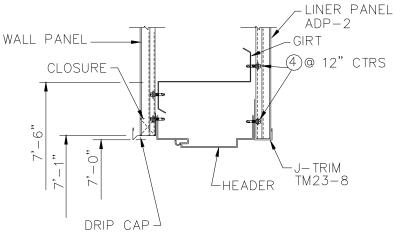


AT JAMB WITH ADP-2 PANEL

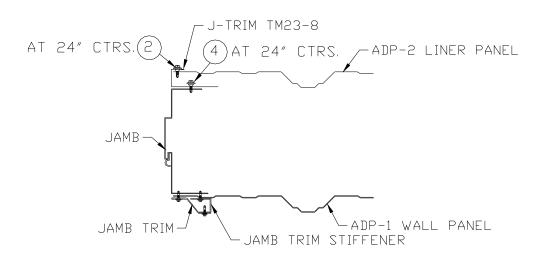


SECTION THRU JAMB WITH ADP-2 WALL PANEL W/ADP-2 LINER PANEL

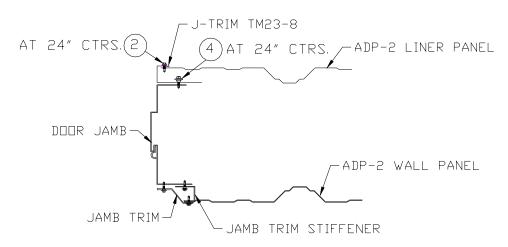
LINER AT KNOCK-DOWN DOOR



AT HEADER



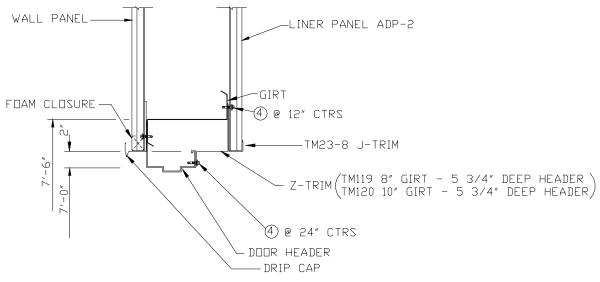
AT JAMB WITH ADP-1 WALL PANEL



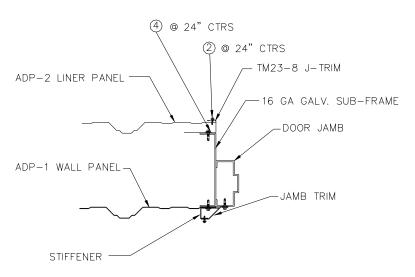
AT JAMB WITH ADP-2 WALL PANEL

7/21/06

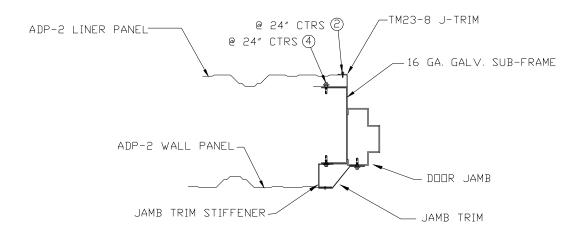
LINER AT PREASSEMBLED DOOR



AT HEADER



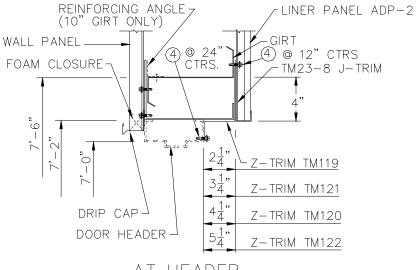
AT JAMB WITH ADP-1 WALL PANEL



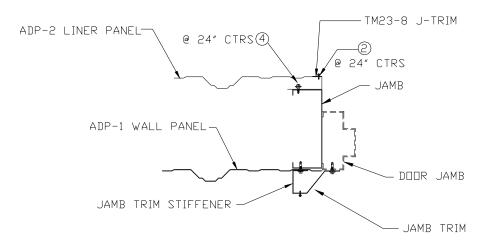
AT JAMB WITH ADP-2 WALL PANEL

24 5-17-07

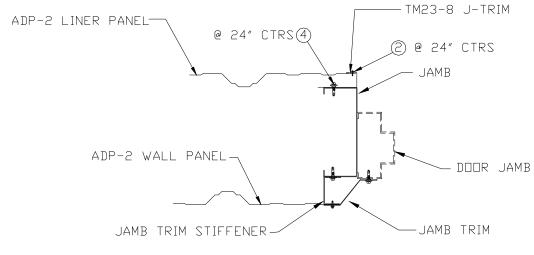
LINER AT WALK DOOR ROUGH FRAME



AT HEADER

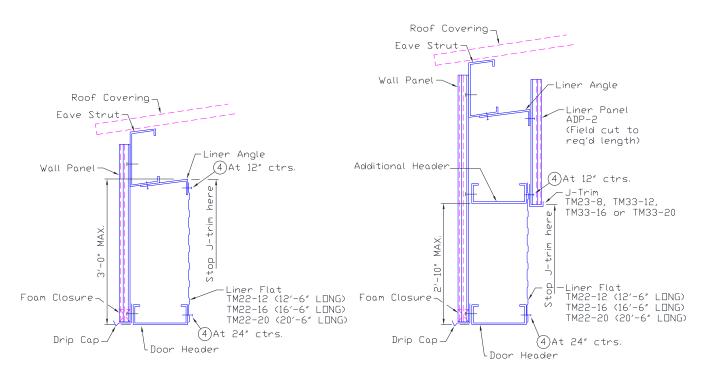


AT JAMB WITH ADP-1 WALL PANEL

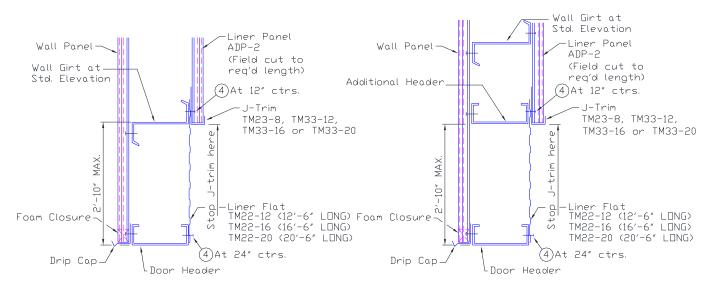


AT JAMB WITH ADP-2 WALL PANEL

LINER AT FRAMED OPENING

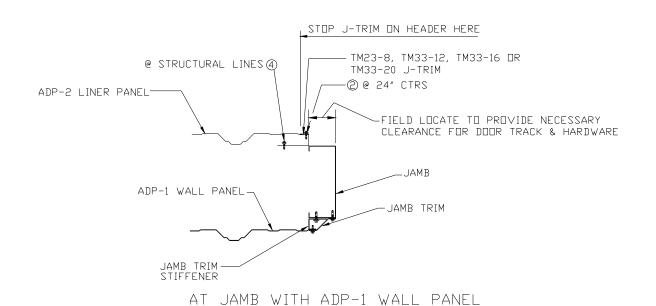


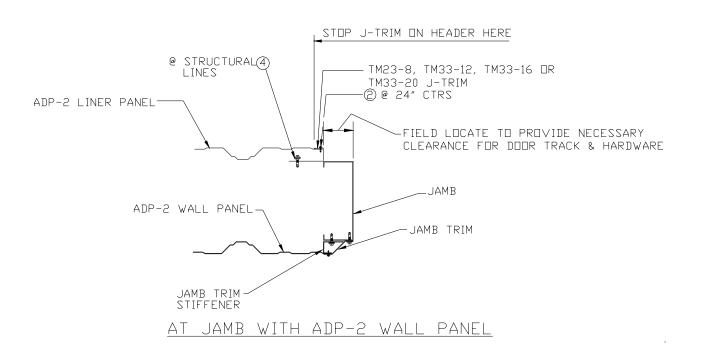
HEADERS NEAR EAVE STRUTS



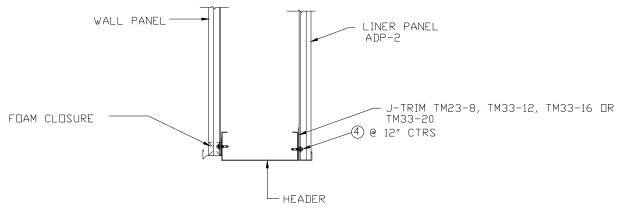
HEADERS BELOW SIDEWALL / ENDWALL GIRTS AT STANDARD ELEVATIONS

LINER AT FRAMED OPENING

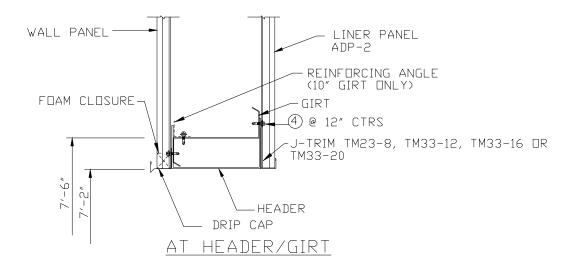


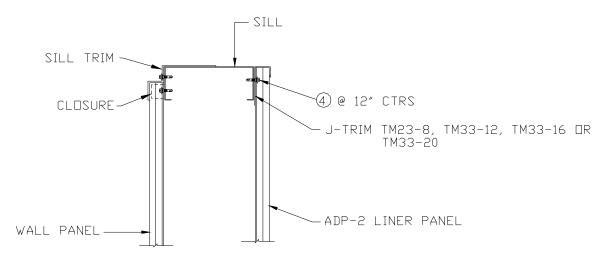


LINER AT FRAMED OPENING WITH SILL



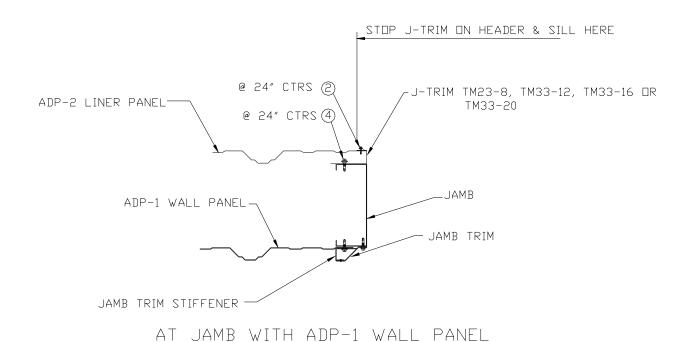
AT HEADER

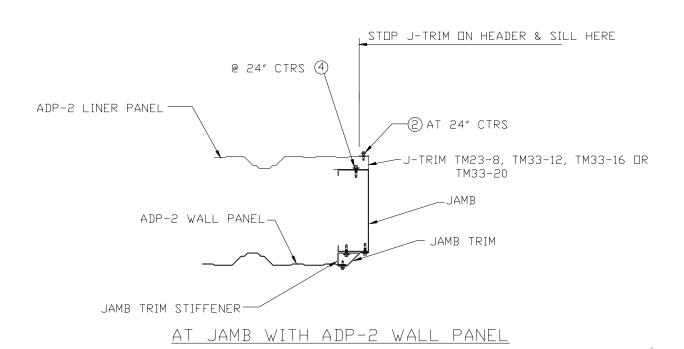




28 ?

LINER AT FRAMED OPENING WITH SILL





29 11-8-99