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<u>Product Approval Menu</u> > <u>Product or Application Search</u> > <u>Application List</u> > <u>Application Detail</u>

FL1435-R28 Application Type Revision Code Version 2023 **Application Status** Approved

Comments

Archived

Product Manufacturer PGT Industries

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Authorized Signature Jens Rosowski

jrosowski@pgtindustries.com

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Quality Assurance Representative Address/Phone/Email

Windows Category Subcategory Single Hung

Compliance Method Evaluation Report from a Florida Registered Architect or a Licensed Florida

Professional Engineer

Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed

the Evaluation Report

Florida License

Quality Assurance Entity

Quality Assurance Contract Expiration Date

Referenced Standard and Year (of Standard)

Validated By

A. Lynn Miller, P.E.

PE-58705

Keystone Certifications, Inc.

12/31/2032

Steven M. Urich, PE

✓ Validation Checklist - Hardcopy Received

Certificate of Independence FL1435 R28 COI Cert of Independence.pdf

Standard Year AAMA/WDMA/CSA 101/IS2/A440 2011 AAMA/WDMA/CSA 101/IS2/A440 2022 **ASTM E1886** 2013 **ASTM E1996** 2012

Equivalence of Product Standards Certified By

Florida Licensed Professional Engineer or Architect

FL1435 R28 Equiv AAMA 101-17 and AAMA 101-22 Equivalency Letter

PGT.pdf

Sections from the Code

Product Approval Method Method 1 Option D

Date Submitted 08/28/2024 Date Validated 09/03/2024 Date Pending FBC Approval 09/04/2024 Date Approved 10/15/2024

Summary of Products

Summary of Froducts					
FL#	\	Model, Number or Name	Description		
1435.1)	SH-5400	EnergyVue Vinyl Single Hung Window		
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		side HVHZ: Yes nstallation Instructions for design	Installation Instructions FL1435 R28 II SH5400-NI - REV D.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL1435 R28 AE Eng Eval - SH5400 - REV D.pdf Created by Independent Third Party: No		
1435.2		SH-5400 with U-Lite Thin Triple Glazing	Vinyl Single Hung Window		
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		side HVHZ: Yes nstallation Instructions for design	Installation Instructions FL1435 R28 II SH5400FPA-U-Lite.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL1435 R28 AE SH5400 - U-Lite - ENG EVAL.pdf Created by Independent Third Party: No		
1435.3		SH-5500	WinGuard Vinyl Single Hung Window		
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		side HVHZ: Yes nstallation Instructions for design	Installation Instructions FL1435 R28 II SH5500LMI - REV C.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL1435 R28 AE Eng Eval - SH5500 - REV C1.pdf Created by Independent Third Party: No		

Back

Next

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Product Approval Accepts:













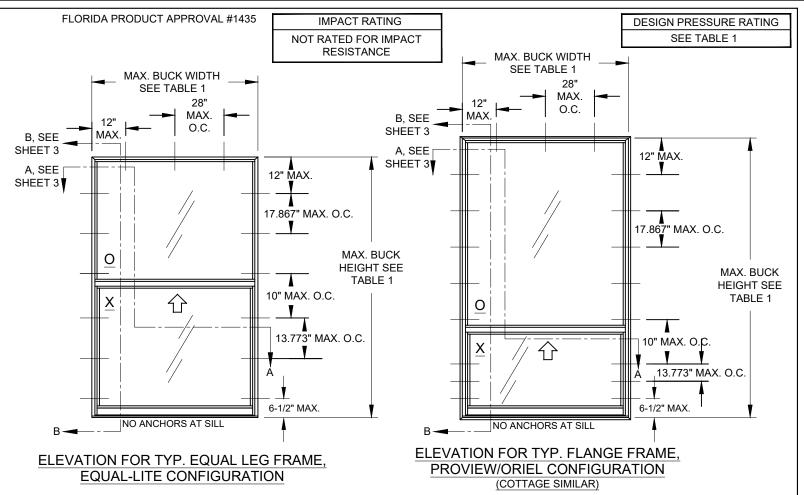
SERIES SH5400 NON-IMPACT RESISTANT, VINYL SINGLE HUNG WINDOW

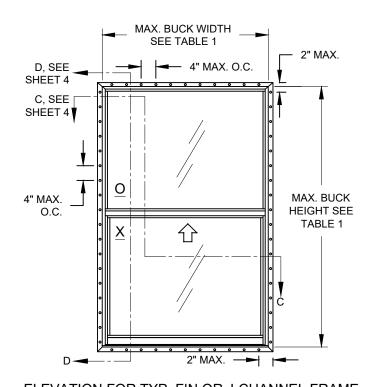
- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE.
- 2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLES 2&3. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- 4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH. ANCHORS AND FRAME CORNERS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 5) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.
- 6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.
- 7) FRAME FLANGES OR INTEGRAL FINS MAY BE TRIMMED IN-FIELD TO CREATE EQUAL-LEG FRAME.

TABLE 1:

Window Buck Size		Cautianus tian	Reinf.	Design Pressure		Product
Width	Height	Configuration	Level	(+) psf	(-) psf	Rating
40"	63"	Equal-lite	R4	50.0	70.0	R-PG50
36"	62"	Std. ProView	D4 50.0		50.0	LC DCF0
36"	67-9/16"	Custom Sash	R4	50.0	50.0	LC-PG50
52-1/8"	84"	Equal-lite				
52-1/8"	84"	Std. ProView	R1	50.0	50.0	LC-PG50
52-1/8"	91-13/16"	Custom Sash				
52-1/8"	84"	Equal-lite		3		
52-1/8"	84"	Std. ProView	R2	65.0	70.0	LC-PG65
52-1/8"	91-13/16"	Custom Sash				

MIN. SASH HEIGHT = WINDOW BUCK HEIGHT - 50.136 (APPLIES TO ANY HEIGHT 91.78" OR LESS).



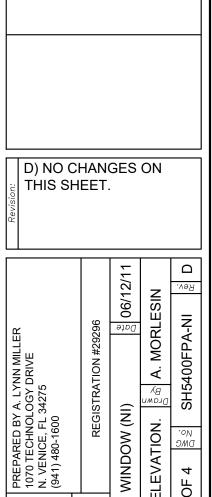


ELEVATION FOR TYP. FIN OR J-CHANNEL FRAME, **EQUAL-LITE CONFIGURATION** (SIMILAR ANCHOR DIMENSIONS FOR OTHER CONFIGURATIONS)

SHAPES MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK AND OBTAINING **DESIGN PRESSURES FOR**

THAT BLOCK SIZE FROM

THE TABLE ON THIS SHEET



WINDOW (NI)

HUNG

SINGLE

VINYL

ELEVATION.

∞

GENERAL NOTES

DWC

4

OF

SH5400

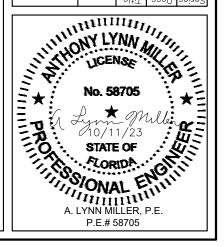


TABLE 2: ANCHORS INSTALLED THROUGH FRAME

Anchor	Substrate	Min. Edge Distance	Min. Embedment	
#10 SMS	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"	
(steel, 18-8 S.S.	Steel, A36	3/8"	0.050"	
or 410 S.S.)	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)	
Max. DP of 50.0 psf	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)	
#42 OMO	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"	
#12 SMS	Steel, A36	3/8"	0.050"	
(steel, 18-8 S.S.	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)	
or 410 S.S.)	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)	
2/40!!	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"	
3/16" Ultracon+	Concrete (min. 3 ksi)	1"	1-3/8"	
Max. DP of 50.0 psf	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"	
	P.T. Southern Pine (SG=0.55)	1"	1-3/8"	
1/4" Ultracon+	Concrete (min. 3 ksi)	1-3/16"	1-3/4"	
:	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"	
1/4" Croto Flore	P.T. Southern Pine (SG=0.55)	1"	1-3/8"	
1/4" Crete-Flex	Concrete (min. 3.35 ksi)	1"	1-3/4"	
(410 S.S.)	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"	
1/4" A O-t	Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"	
1/4" Aggre-Gator	P.T. Southern Pine (SG=0.55)	1"	1-3/8"	
(18-8 S.S.)	Ungrouted CMU, (ASTM C-90)	2"	1-1/4"	

TABLE 3: ANCHORS INSTALLED	THROUGH INTEGRAL FIN
	200

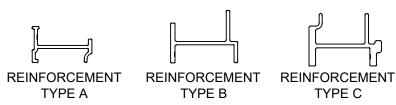
Anchor	Substrate	Min. Edge Distance	Min. Embedment	
2-1/2" x .131" Common Nail Max. DP of 50.0	P.T. Southern Pine (SG=.55)	9/16"	2-7/16"	
2-1/2" x .131" Ring-shank Nail	P.T. Southern Pine (SG=.55)	9/16"	2-7/16"	
2-1/2" x .145" Roofing Nail	P.T. Southern Pine (SG=.55)	9/16"	2-7/16"	
usesee	P.T. Southern Pine (SG=.55)	3/4"	1-3/8"	
#10 SMS	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)	
(steel, 18-8 S.S. or 410 S.S.)	Steel Stud, Gr. 33	3/8"	0.0346" (20 Ga.)	
5. 4.0 6.6.,	Steel, A36	3/8"	0.050"	

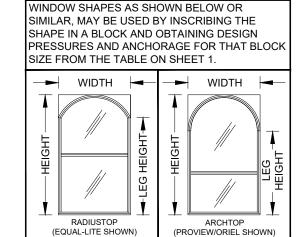
ANCHOR NOTES FOR TABLES 2 & 3:

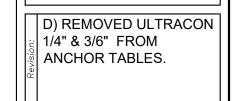
- 1) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 2) ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.
- 3) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.

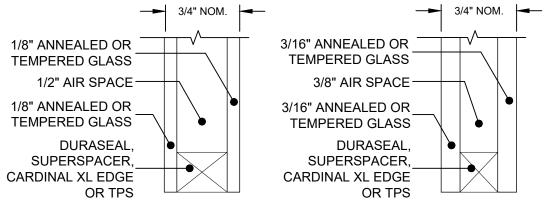
TABLE 4: REINFORCEMENT TYPES

Reinforcement						
	Upper Lite	Lower Lite				
Level	Bottom Rail	Top Rail	Bottom Rail	Side Rails		
R1	В	Α	Α	Α		
R2	С	Α	Α	Α		
R4	В	Α	Α	N/A		

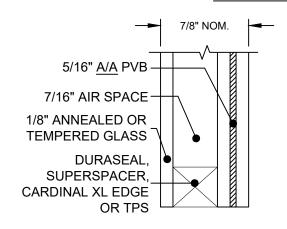


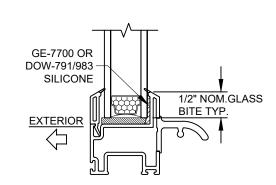




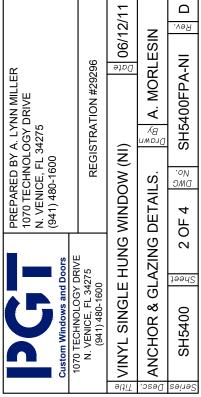


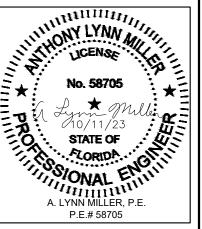
GLASS TYPES

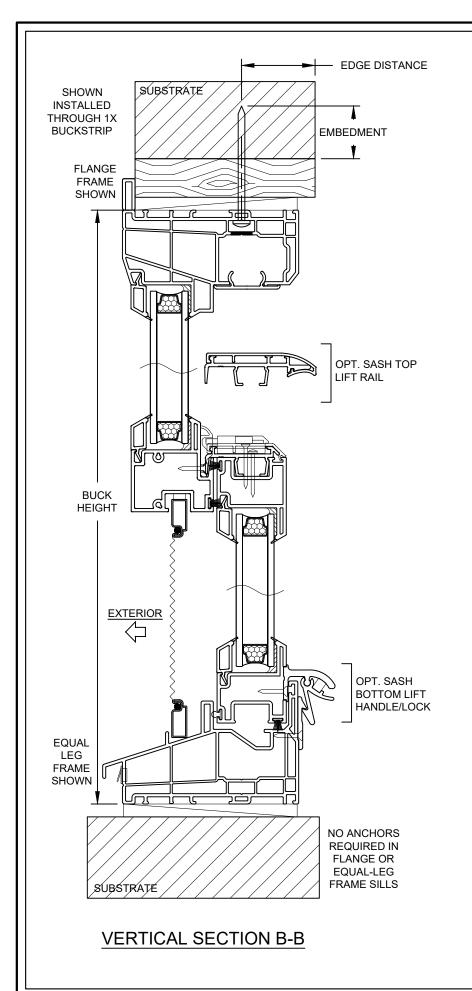


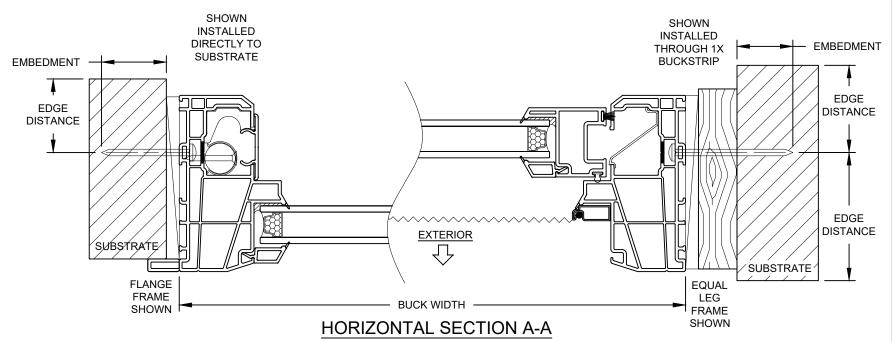


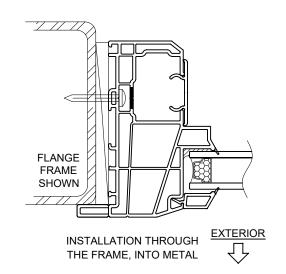
TYP. GLAZING DETAIL
PVB INTERLAYER MANUFACTURED BY
KURARAY AMERICA, INC.





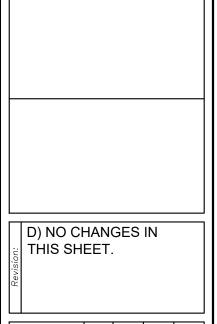




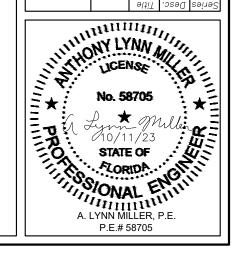


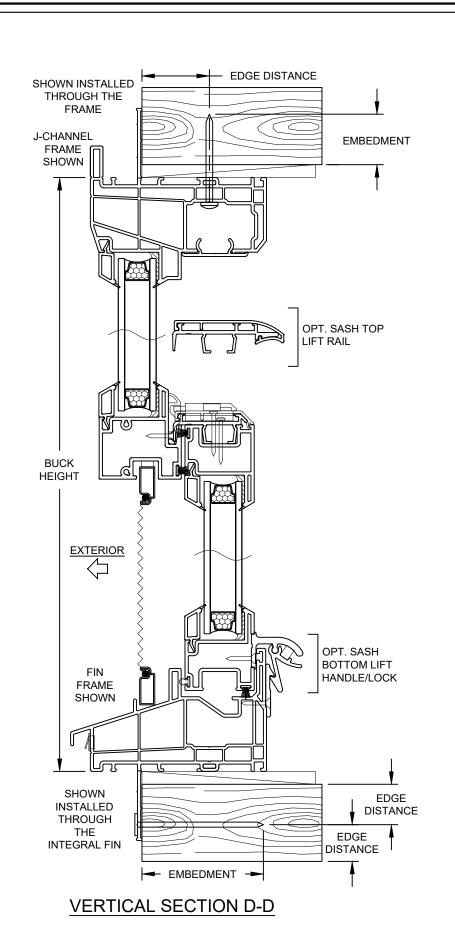
INSTALLATION NOTES:

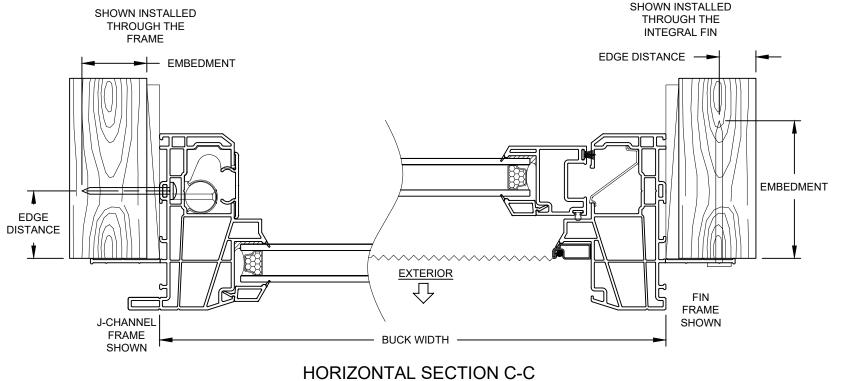
- 1) SEE SHEET 1 FOR SPACING REQUIREMENTS.
- 2) SEE TABLE(S) ON SHEET 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
- 3) MAX. SHIM THICKNESS TO BE 1/4".
- 4) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.
- 5) FIN AND/OR FLANGE MAY BE REMOVED TO CREATE OTHER FRAME TYPES.

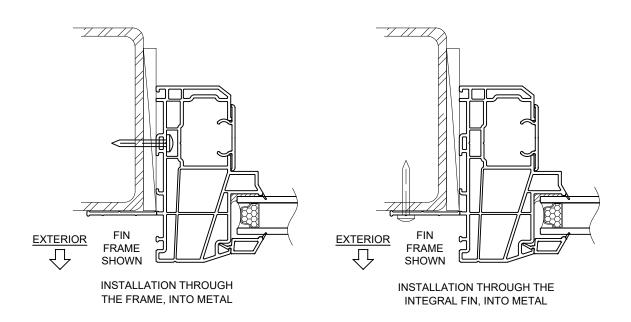


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N MILLE RIVE	ON #292		A. MOF	SH5400FPA-NI
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	(1)	Drawn By	SH54
PREPARED BY A. LY 1070 TECHNOLOGY I N. VENICE, FL 34275 (941) 480-1600	REG	N) MO		No.
PREP/ 1070 T N. VEN (941) 4		VINYL SINGLE HUNG WINDOW (NI)	ONS.	3 OF 4
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ws and D	ECHNOLOGY D VENICE, FL 342 (941) 480-1600	NGLE	INSTA	
Custom Windows and Doors	1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	IX SII	FLANGE INSTALLATIONS.	SH5400
Cust	107	NIV	FL	



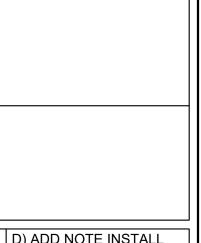






INSTALLATION NOTES:

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- 5) FIN AND/OR FLANGE MAY BE REMOVED TO CREATE OTHER FRAME TYPES.



D) ADD NOTE INSTALL
OP. 4

| PREPARED BY A. LYNN MILLER | 1070 TECHNOLOGY DRIVE | 1070 TECHNOLOGY DRIVE

