City of Venice
Building Department
401 W. Venice Ave
Venice, Fl. 34285

Phone (941) 486-2626 Fax (941) 486-2448 Inspections (941) 483-5907 Apply Online https://trakit.venicegov.com/eTRAKiT/

RESIDENTIAL DATA SUMMARY WORKSHEET

This form shall be completed and submitted with Application Documents

Owners Name	D R HORTON INC			P.I.D.	0399070126
Project Address	245 IBIZA LOOP VENICE , FL, 34292				
Design Professional	Structural Systems	Phone	239-549-4554	Fax	
Contractor	DR HORTON INC	Phone	239-225-600	Fax	

Applicable Codes

Building Code	Florida Building Code	2020 Residential Volume
Mechanical Code	Florida Building Code	2020 Residential Volume
Plumbing Code	Florida Building Code	2020 Residential Volume
Electrical Code	NFPA 70 / NEC 2020	
Accessibility Code	Florida Building Code	FACBC 2020
Energy Code	Florida Building Code	Residential Energy Efficiency 2020

Manufacturer / FL Product Approval / NOA #

Doors / SGD	MI Window FL22401.3-FL22401.4
Windows	SH MI Window-Impact FL21637.7
Overhead Doors	Wayne Dalton FL9174.1/9174.3
Mitered Glass	N/A
Shutters	ALL AMERICAN - FL17869.1
Roof Coverings	Eagle Roofing - FL7473.1 (R9)
Soffit	KAYCAN LTD - FL24564.3 (R4)
Sentricon Bait	BORA CARE

Method of Design per R301 / Residential Volume

_____ AF&PA (WFCM) _____ ASCE 7 _____ AISI (COFS/PM) _____ ICC 600

_____ MAF Guide Other _____

X FBC 2020 / Residential

Volume **Construction Type** IV V (circle one) Other VB

Design Wind Speed 160 m.p.h. R301.2 (4)

Importance Factor 1.0

Wind Debris Area (Yes) No Exposure B or (C) (circle one)

Structural Forces Section R301.4 / R301.5 / R301.6

Floor Design Live Load 40 p.s.f
Dead Load Slab On Grade p.s.f

Roof Design Live Load 20 p.s.f
Dead Load TC=20 BC=10 p.s.f

WINDOW & DOOR WIND PRESSURE DESIGN LOADING

Mean Roof Height 15 feet

Windows +33.5, -44.8 psf

Doors +33.5, -44.8 psf

Garage Doors +29.4,-33.3 psf

Please Show Design Pressure for Worst Case ONLY

Components and Cladding Design Pressures: R301.2 (7)

Z1 +24.9, -44.8 p.s.f. Z3 +24.9, -61.7 p.s.f. Z5 +33.5, -44.8 p.s.f.

Z2 +24.9, -61.7 p.s.f. Z4 +33.5, -36.3 p.s.f. a= edge distance 4 ft.

Misc. Notes

For Specific window and door pressures, see Sheet A3 or S-2, whichever one is sealed.

Area Tabulation

Living	1,503	sf / Conditioned Space
Garage	391	sf
Lanai	143	sf
Entry	20	sf
Storage		sf
Other		sf
	2,057	**Total square footage**

I certify to the best of my knowledge and belief, these plans and specifications have been designed to comply with the structural portion of the Building Code for wind and gravity loads as amended and enforced by the permitting jurisdiction.

Signature _____ **Date** _____
Architect / Engineer

DEREK W. BERGENER LICENSE No. 58552 STATE OF FLORIDA PROFESSIONAL ENGINEER

Seal

Residential Data Summary Worksheet

This item has been digitally signed by Derek Bergener on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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Venice, Fl. 34285

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_____ MAF Guide Other _____

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Signature _____ **Date** _____

Architect / Engineer

DEREK W. BERGENER LICENSE No. 58552 STATE OF FLORIDA PROFESSIONAL ENGINEER

Seal Residential Data Summary Worksheet

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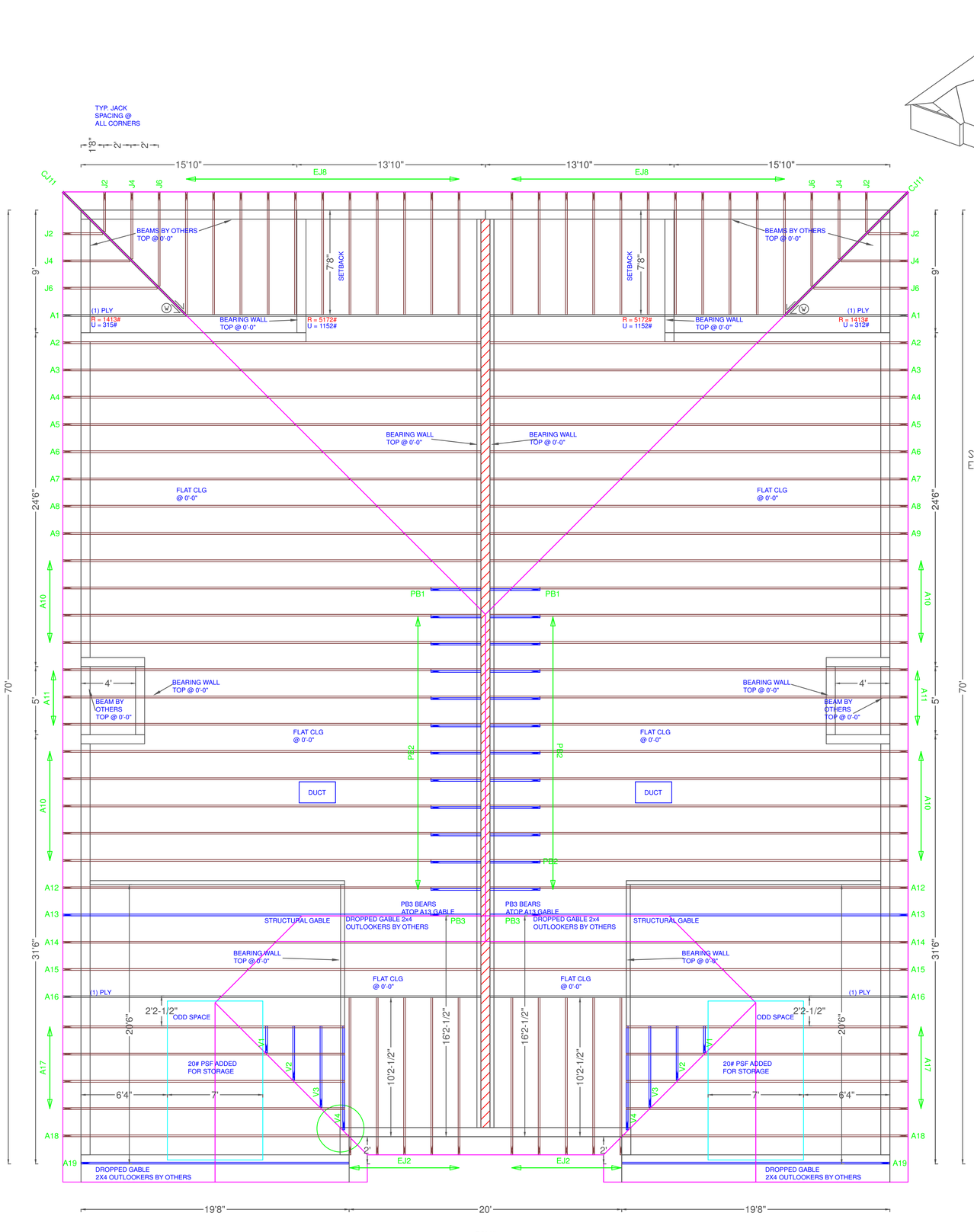
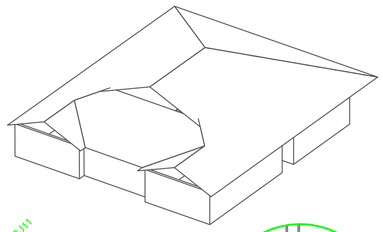
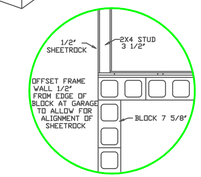
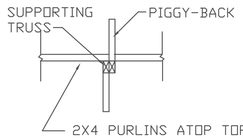




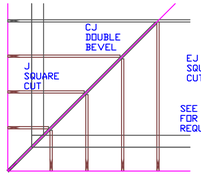




SEE SUPPORTING TRUSS & PIGGY-BACK ENGINEERING FOR ADDITIONAL INFORMATION

SCAB PIGGY-BACK DETAIL

TYPICAL JACK CUTS



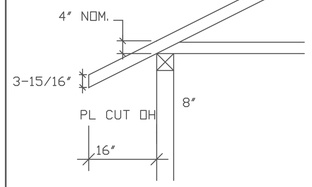
DESIGN CRITERIA

LANAI AND ENTRY ARE EXPOSED TO WIND AND DESIGNED PER CRITERIA SHOWN

TOP CHORD LIVE LOAD		20
TOP CHORD DEAD LOAD		20
BOTTOM CHORD LIVE LOAD	NON-CONCURRENT	10#
BOTTOM CHORD DEAD LOAD		10
TOTAL LOAD		50
DURATION FACTOR		1.25
WIND DESIGN SPEED (MPH)		160
MAX. WALL HT FOR WIND LOAD		9'-4"
ASCE 7-16 FBC 2020		MWFRS
EXP. C	CLOSED	
Residential - CAT II		

TILE

5 12



TYPICAL END DETAIL

UNLESS NOTED

REACTION VALUES ARE UNDER 5000#

UPLIFT VALUES ARE UNDER 1000#

ALL TRUSSES 24"o.c. UNLESS NOTED OTHERWISE

********CAUTION********

DO NOT ATTEMPT TO ERECT TRUSSES WITHOUT REFERRING TO THE ENGINEERING DWGS.

IT IS NECESSARY TO REFER TO THE ENGINEERING DRAWINGS FOR NUMBER OF MEMBERS, BEARING LOCATION, ORIENTATION AND WEB BRACING

REFER TO WTCA/TPI BSCI-B1 SUMMARY SHEET FOR HANDLING METHODS & TEMPORARY BRACING, WHICH IS ALWAYS REQUIRED

BEARING HEIGHTS BASED ON PLANS PROVIDED TO SCOSTA CORP. "+/-" BEARING DIFFERENCES SHOWN ARE CRITICAL. IF ANY HEIGHTS DEVIATE - INFORM SCOSTA CORP.

BEARING WALL & BEAM HEIGHTS

9'-4" A.F.F.	0'-0"	ELEV.
RAKED BEAM		ELEV.
		ELEV.
		ELEV.
		ELEV.
		ELEV.
		ELEV.

TYPICAL HANGER SCHEDULE

C	SIMPSON HUS 26	M	SIMPSON HGUS 28-3
F	SIMPSON HUS 28	N	SIMPSON HHUS 48
H	SIMPSON HGUS 28	P	SIMPSON LUS 24
I	SIMPSON HGUS 28-2	B	SIMPSON THA 422
W	SIMPSON THJA26	X	

HANGER VALUES HAVE BEEN BASED ON 16D COMMON NAILS EXCEPT THE FOLLOWING
LUS24 - 10D COMMON THJA26 - 10D x 1-1/2

********ATTENTION********

APPROVAL OF THIS TRUSS LAYOUT IS NECESSARY BEFORE FABRICATION CAN BEGIN. VERIFY DIMENSIONS, PITCHES, OVERHANGS, ELEVATIONS, CEILING & BEARING CONDITIONS. SCOSTA CORPORATION IS RESPONSIBLE FOR ACCURACY IN ACCORDANCE WITH PLANS AND/OR INFORMATION PROVIDED BY CUSTOMER, WITH ANY DEVIATIONS NOTED HEREIN. CUSTOMER IS RESPONSIBLE TO VERIFY ACCURACY OF INFORMATION AND PLANS PROVIDED TO SCOSTA CORPORATION, AND TO VERIFY CONFORMANCE TO FIELD CONDITIONS, AND/OR OWNER CHANGES. TRUSSES WILL BE BUILT IN ACCORDANCE WITH THE APPROVED LAYOUT.

APPROVED BY: _____

DATE: _____ REQUESTED DELIVERY DATE: _____

JOBSITE CONTACT NAME: _____

PHONE #: _____

E-MAIL: _____

Engineer of Record for the Structure
Structural Systems of N. Fl, Inc.
Derek Bergener, PE 58552
1634 SE 47th Street #3
Cape Coral, FL 33904

This document has been reviewed for conformance with the design intent of the structure and specified design criteria.

☒ Accepted As-Is ☐ Accepted As Noted ☐ Revise and Resubmit

SCOSTA CORP.

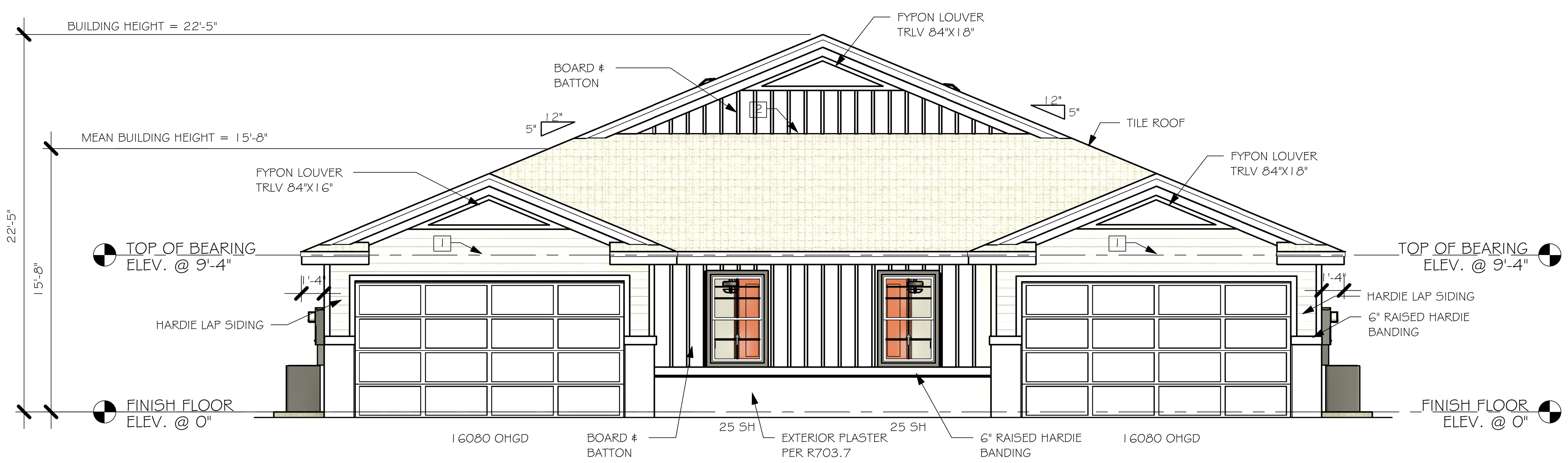
WOOD, STEEL OR TIMBER ROOF & FLOOR TRUSSES

3670 COMMERCE CENTER DRIVE
SEBRING, FL 33870
(863) 385-8242

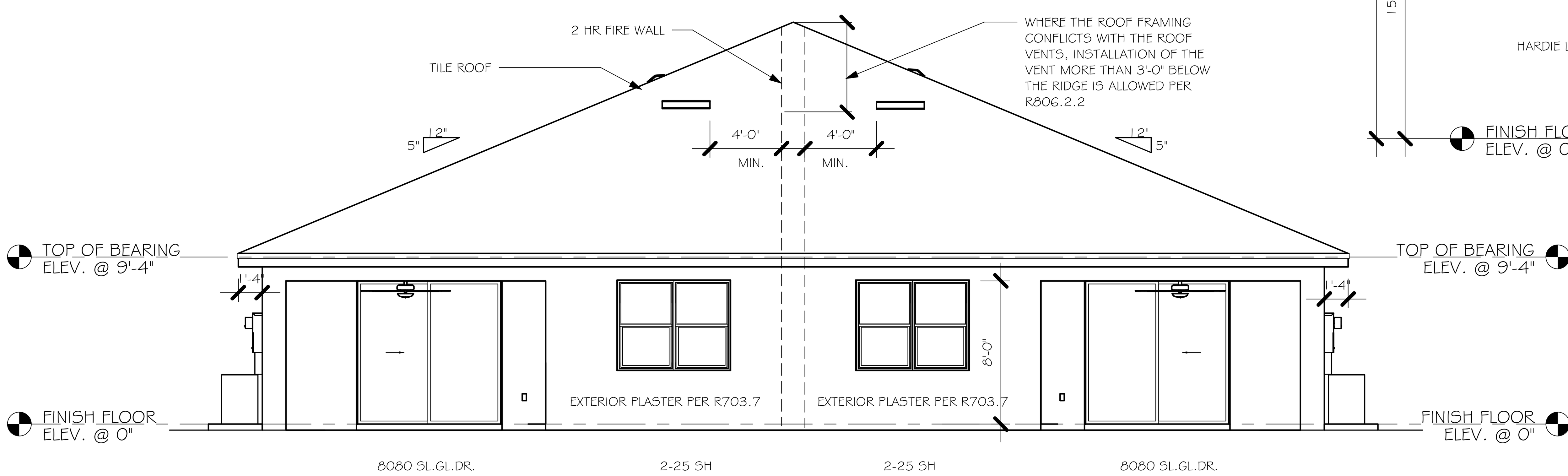
SCALE:	DATE:	REVISED BY:	DRAWN BY:
1/4"=1'-0"	02/17/21		KCD

JOB ADDRESS: 1503 F TWIN VILLA — 1 OF 1

CUSTOMER: D.R. HORTON — JOB #: DR1503-160C

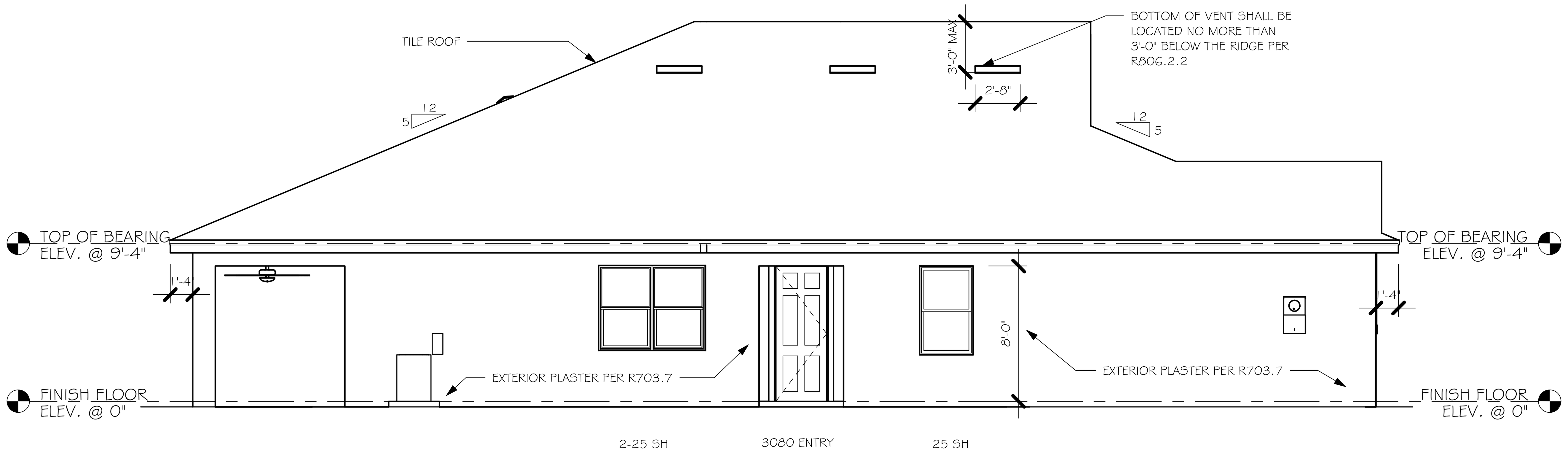


FRONT ELEVATION
3/16" = 1'-0"

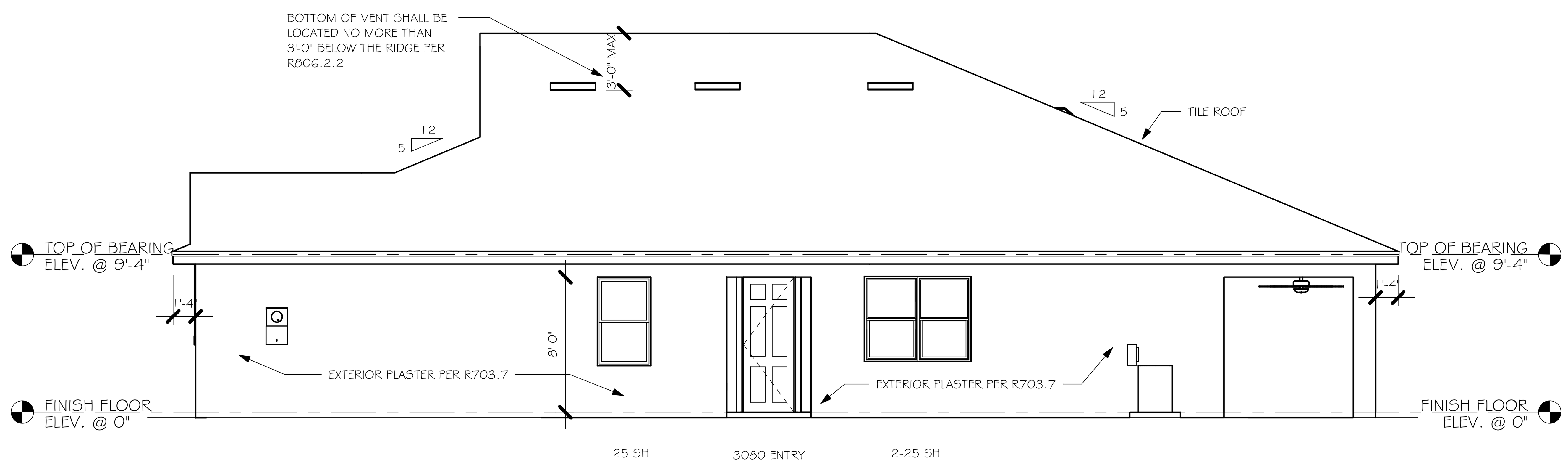


REAR ELEVATION
3/16" = 1'-0"

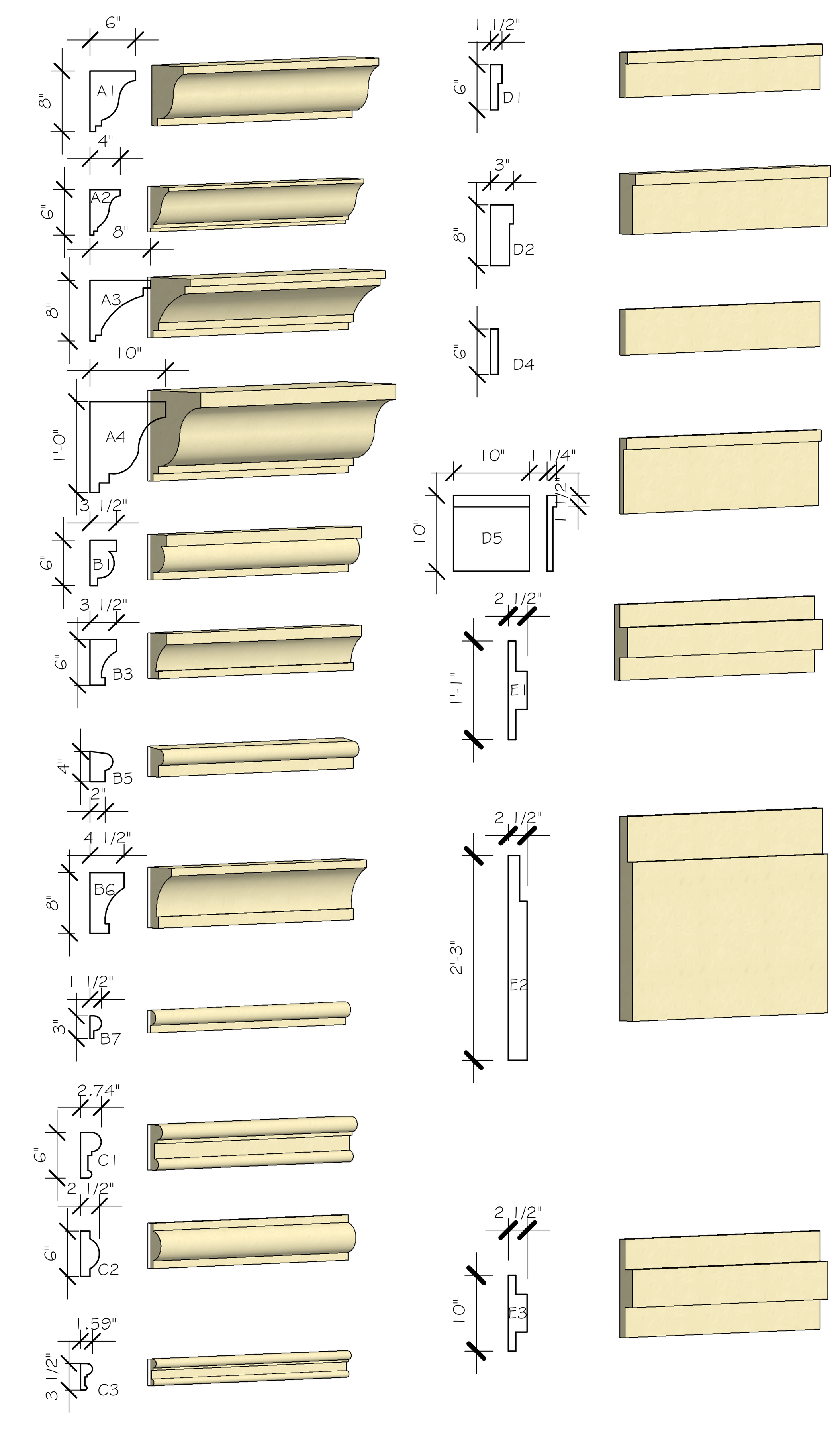
1	MID-WALL WEEP SCREED AT WOOD MASONRY INTERFACE. INSTALL STRICTLY PER MFG. INSTRUCTIONS
2	ROOF / WALL SCREED INSTALL STRICTLY PER MFG. INSTRUCTIONS



LEFT ELEVATION
3/16" = 1'-0"



RIGHT ELEVATION
3/16" = 1'-0"



BANDING DETAILS

FLORIDA BUILDING CODE 7TH EDITION

OCCUPANCY: FBC 310.5 RESIDENTIAL GROUP R-3
CONSTRUCTION TYPE: V-B (FIRE RESISTANCE RATING 0 HOURS, NOT SPRINKLED)

CODES TO BE USED BY OTHER DESIGN PROFESSIONALS AND LICENSED CONTRACTORS:
2020 FLORIDA BUILDING CODE, 7TH EDITION: RESIDENTIAL; ACCESSIBILITY; ENERGY CONSERVATION; PLUMBING; MECHANICAL; AND FUEL GAS.
ELECTRICAL IS CONTAINED BY REFERENCE WITHIN FBC RESIDENTIAL CHAPTER 34: NFPA 70-17 NATIONAL ELECTRICAL CODE.

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2020 - 7TH EDITION

This is a multi-page document. I performed structural engineering only on those pages which contain my seal, Derek Bergener, and company name Structural Systems.

D·R·HORTON America's Builder

Gulf Coast Drafting & Design, Inc.
EMAIL: PLANS@GULFCOASTDRAFTING.COM
PHONE: 239-540-1822
1515 SE 47TH ST. CAPE CORAL, FL 33904

STRUCTURAL SYSTEMS

DEREK W. BERGENER LICENSE No. 58852 STATE OF FLORIDA PROFESSIONAL ENGINEER

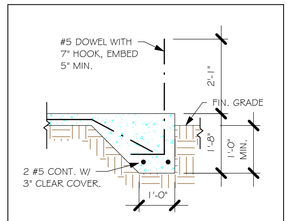
LOT: 126, 127
SUBDIVISION: PALENCIA TVs
ADDRS: 245, 249 IBIZA LOOP
D.R.H. #: 579820203, 204

MODEL 1503
VILLA F
GCD JOB # 13910

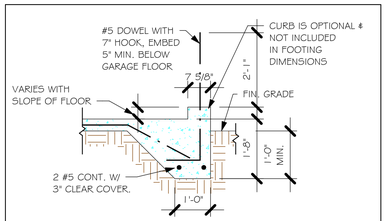
DATE: 11/19/21
DRAWN BY: CWL
CHECKED BY: JWC
REVISED:
PLAN: ELEVATION
SCALE: As indicated

A-1

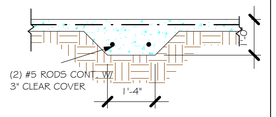
Y:\O-New Data\1-MASTER 2019\2019-BUILDERS\DR HORTON 2019\SUBDIVISIONS\PALENCIA TVs\13910 LOT 126-127 1503 F\REVIT\13910 1503 F.rvt



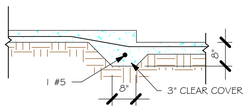
"F3" FOOTING
1/2" = 1'-0"



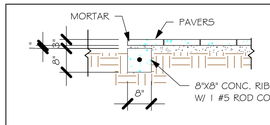
"F3" WITH CURB AT GARAGE
1/2" = 1'-0"



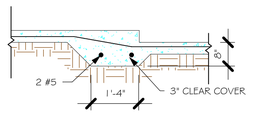
"F5" FOOTING
1/2" = 1'-0"



"F6A"
1/2" = 1'-0"



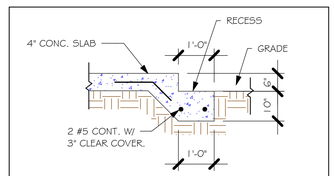
"P" PAVERS DETAIL ENTRY/ LANAI
1/2" = 1'-0"



"F6" STEP DOWN
1/2" = 1'-0"

PAD FOOTING SCHEDULE

USED	TYPE	LENGTH	WIDTH	DEPTH	BOTTOM REINF. LONG WAY	BOTTOM REINF. SHORT WAY	REMARKS
X	A	2'-6"	2'-6"	1'-0"	3-#5	3-#5	-
	B	3'-0"	3'-0"	1'-0"	4-#5	4-#5	-
	C	3'-6"	3'-6"	1'-0"	4-#5	4-#5	-
	D	4'-0"	4'-0"	1'-2"	5-#5	5-#5	-
	E	5'-0"	5'-0"	1'-2"	6-#5	6-#5	-



GARAGE DOOR RECESS
1/2" = 1'-0"

WALL FOOTING SCHEDULE

USED	TYPE	LENGTH	WIDTH	DEPTH	BOTTOM REINFORCING	SHAPE
	F1	CONT.	1'-4"	0'-8"	2-#5	
	F2	CONT.	1'-8"	0'-10"	2-#5	
X	F3	CONT.	1'-0"	1'-8"	2-#5	ADD CURB TO GARAGE, SEE DETAIL
	F4	CONT.	1'-4"	1'-8"	2-#5	
X	F5	CONT.	1'-4"	1'-0"	2-#5	
X	F6	CONT.	1'-4"	1'-0"	2-#5	
X	F6A	CONT.	0'-8"	0'-8"	1-#5	
	TE	CONT.	0'-8"	0'-8"	1-#5	

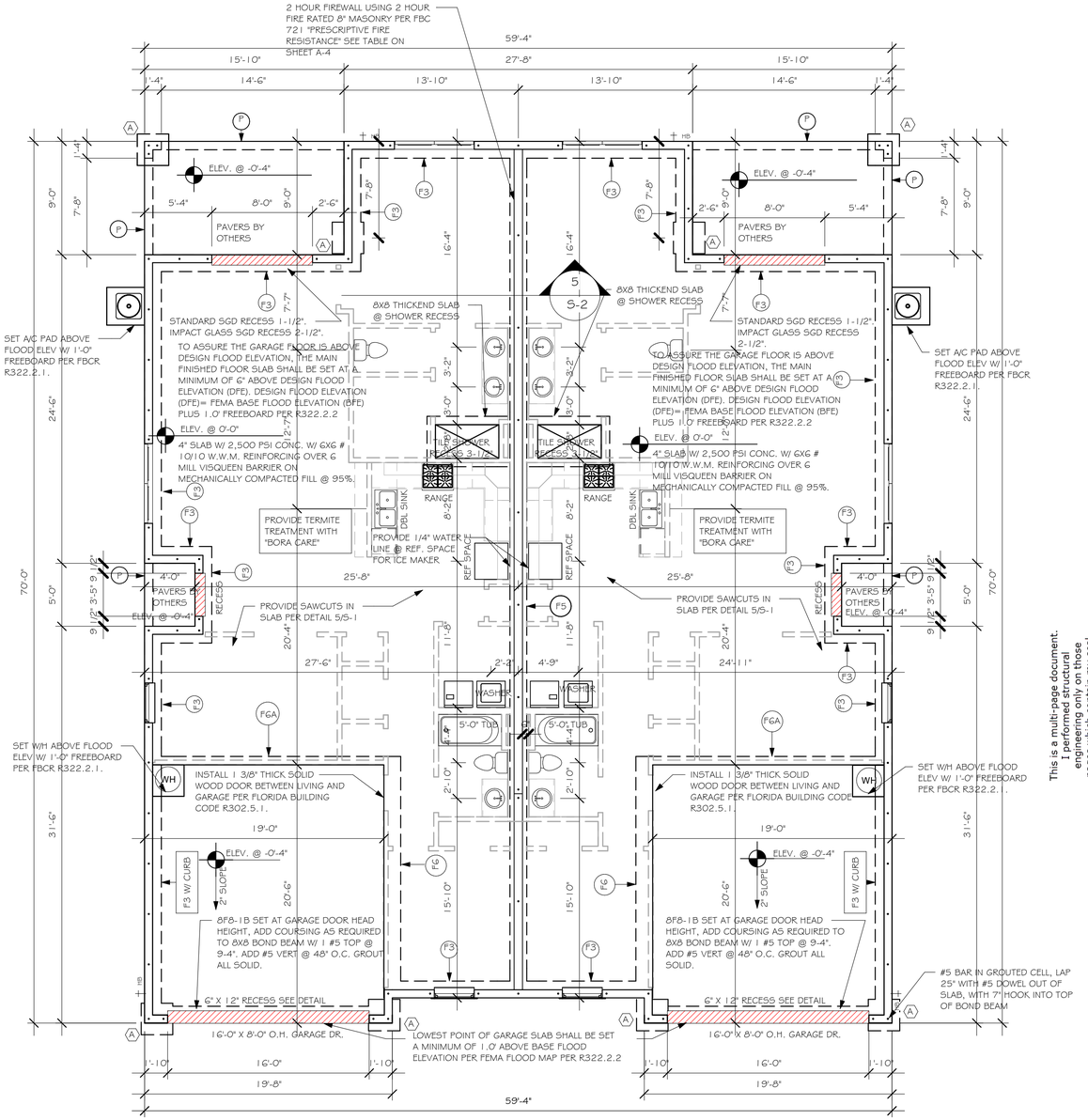
PROVIDE CORNER BARS IN FOOTING PER DETAIL 6/S-1

FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

PLAN NOTES:

1. **TOP OF GROUND FLOOR SLAB DATUM ELEVATION 0'-0"**
2. **"F#" DENOTES CONTINUOUS WALL FOOTING TYPE PER SCHEDULE THIS SHEET.**
3. **# DENOTES PAD FOOTING AT CONCENTRATED LOADS PER SCHEDULE THIS SHEET.**
4. **PROVIDE #5 VERTICAL REINFORCING AT DOT LOCATIONS SHOWN ON PLAN FROM FOOTING TO BOND BEAM.**
5. **ALL DIMENSIONS ARE TO OUTSIDE FACE OF MASONRY WALLS. SOME SLAB EDGES MAY EXTEND BEYOND FACE OF WALL.**
6. **FOR DIMENSIONS OF ROUGH OPENINGS IN MASONRY WALLS, COORDINATE WITH WINDOW/ DOOR SUPPLIER.**
7. **PROVIDE PRESSURE TREATED BUCKS AT WINDOWS/ DOORS PER DETAIL 7/S-1.**



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D.R. HORTON® NYSE DHI
America's Builder

Gulf Coast Drafting & Design, Inc.
EMAIL: PLANS@GULFCOASTDRAFTING.COM
PHONE: 239-540-1822
1515 SE 47TH ST. CAPE CORAL, FL 33904

STRUCTURAL SYSTEMS OF NORTH FLORIDA
1034 SE 47th ST SUITE #3
CAPE CORAL, FLORIDA 33904
(239) 549-4554
CA# 8859

DEREK W. BERGENER — LICENSE — No. 58552 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

LOT: 126, 127
SUBDIVISION: PALENCIA TVs
ADDRS: 245, 249 IBIZA LOOP
D.R.H. #: 5798220203, 204

MODEL 1503
VILLA F

GCD JOB # 1391.0

DATE: 11/19/21
DRAWN BY: CWL
CHECKED BY: JWC
REVISED:
PLAN: FOUNDATION
SCALE: As indicated

A-2

Y:\0-New Data\1-MASTER 2019\2019-BUILDERS\DR HORTON 2019\SUBDIVISIONS\PALENCIA TVs\1391.0 LOT 126-127 1503 R.REVIT\1391.0 1503 F.rvt

DOOR SCHEDULE

TYPE MARK	DESCRIPTION	COMMENTS	HEIGHT	WIDTH	ZONE 4	ZONE 5	QTY
1	16080 OHGD	GARAGE DOOR	8'-0"	16'-0"	+28.2/-31.5	+28.2/-31.5	2
2	2-4080 SL. GL. DR.	IMPACT	8'-0"	8'-0"	+29.4/-33.3	+29.4/-33.3	2
3	3080 ENTRY	DISTINCTION	8'-0"	3'-0"	+33.5/-36.3	+33.5/-44.8	2

WINDOW SCHEDULE

MARK	DESCRIPTION	COMMENTS	HEIGHT	WIDTH	ZONE 4	ZONE 5	QTY
A	25 SH	IMPACT	5'-5"	3'-4"	+33.5/-36.3	+33.5/-44.8	4
B	2-25 SH	IMPACT	5'-3"	6'-4"	+33.5/-36.3	+33.5/-44.8	4

WIND PRESSURES PER ASCE7-16 160 MPH, EXPOSURE C AND CONVERTED TO ALLOWABLE STRESS DESIGN PRESSURES USING 0.6W LOAD FACTOR. Vasd= 124 MPH

DOOR HEADERS

6'-8" BI-FOLD	HEADER HEIGHT	82" A.F.F.
6'-8" SWING	HEADER HEIGHT	82 1/2" A.F.F.
8'-0" SWING	HEADER HEIGHT	98 1/2" A.F.F.

PLAN NOTES

1) VERIFY ALL ROUGH OPENING DIMENSIONS FOR ALL WINDOWS AND DOORS

2) PROVIDE SAFETY GLAZING WITHIN 24" FROM EXIT PER FLORIDA BUILDING CODE R 308.4.2.

3) PROVIDE SAFETY GLAZING AT BATH/ SHOWER PER FLORIDA BUILDING CODE R 308.4.5.

4) NON BEARING INTERIOR FRAME WALLS SHALL BE FRAMED W/ WOOD OR METAL STUDS. SPACING SHALL NOT EXCEED 24" O.C. (NON BEARING WALLS ONLY)

5) PROVIDE DEAD WOOD IN ATTIC FOR OVERHEAD GARAGE DOOR HARDWARE

6) KITCHEN KNEE WALL TO BE FRAMED W/ TOP @ 34 1/2" A.F.F.

7) INSTALL SMOOTH WALLS IN KITCHEN AND ALL BATHROOM AREAS

8) WHERE DRYWALL CEILING IS APPLIED TO TRUSSES @ 24" O.C. USE 5/8" DRYWALL OR 1/2" SAG RESISTANT PER SEC. R702.3.5

9) THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE & ATTIC BY NOT LESS THEN 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE. GARAGES BENEATH HABITABLE ROOMS SHALL BE SEPARATED WITH NOT LESS THAN 5/8" TYPE 'X' GYPSUM BOARD OR EQUIVALENT. WHERE THE SEPARATION IS A FLOOR - CEILING ASSEMBLY, THE STRUCTURE SUPPORTING THE SEPARTION SHALL ALSO BE PROTECTED BY NOT LESS THAN 1/2" GYPSOM BOARD OR EQUIVALENT

10) INSTALL 1 3/8" THICK SOLID WOOD DOOR BETWEEN LIVING AND GARAGE PER FLORIDA BUILDING CODE R302.5.1.

11) ALL WINDOWS INSTALLED 72" ABOVE GRADE MUST COMPLY WITH R312.2 MIN 24" SILL HEIGHT OR PROVIDED WITH AN APPROVED WINDOW FALL PREVENTION DEVICE

12) ALL CLOSET SHELVES TO BE 12", ALL PANTRY & LINEN TO BE (4)-16" SHELVES 18" O.F.F. W/ 15" INCREMENT.

13) ALL MECHANICAL AND ELECTRICAL EQUIPMENT TO BE INSTALLED AT OR ABOVE FLOOD PLUS 1'-0" FREEBOARD.

INTERIOR DOOR SCHEDULE

MARK	DOOR WIDTH	NOTES
1	3'-0"	P.K. = POCKET DOOR
2	2'-8"	B.F. = BI-FOLD DOOR
3	2'-6"	B.P. = BI-PASS DOOR
4	2'-4"	L.V. = LOUVERED DOOR
5	2'-0"	
6	1'-8"	
7	1'-6"	
8	2'-11"	

SQUARE FOOTAGE UNIT #1

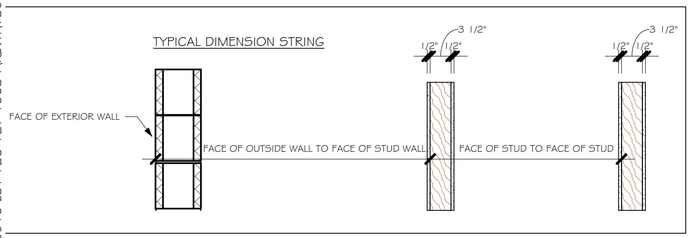
LIVING AREA	1,503
GARAGE AREA	391
LANAI AREA	143
FRONT PORCH/ ENTRY AREA	20
TOTAL SQUARE FOOTAGE	2,057

SQUARE FOOTAGE UNIT #2

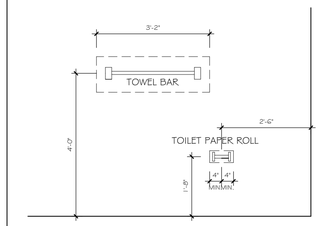
LIVING AREA	1,503
GARAGE AREA	391
LANAI AREA	143
FRONT PORCH/ ENTRY AREA	20
TOTAL SQUARE FOOTAGE	2,057

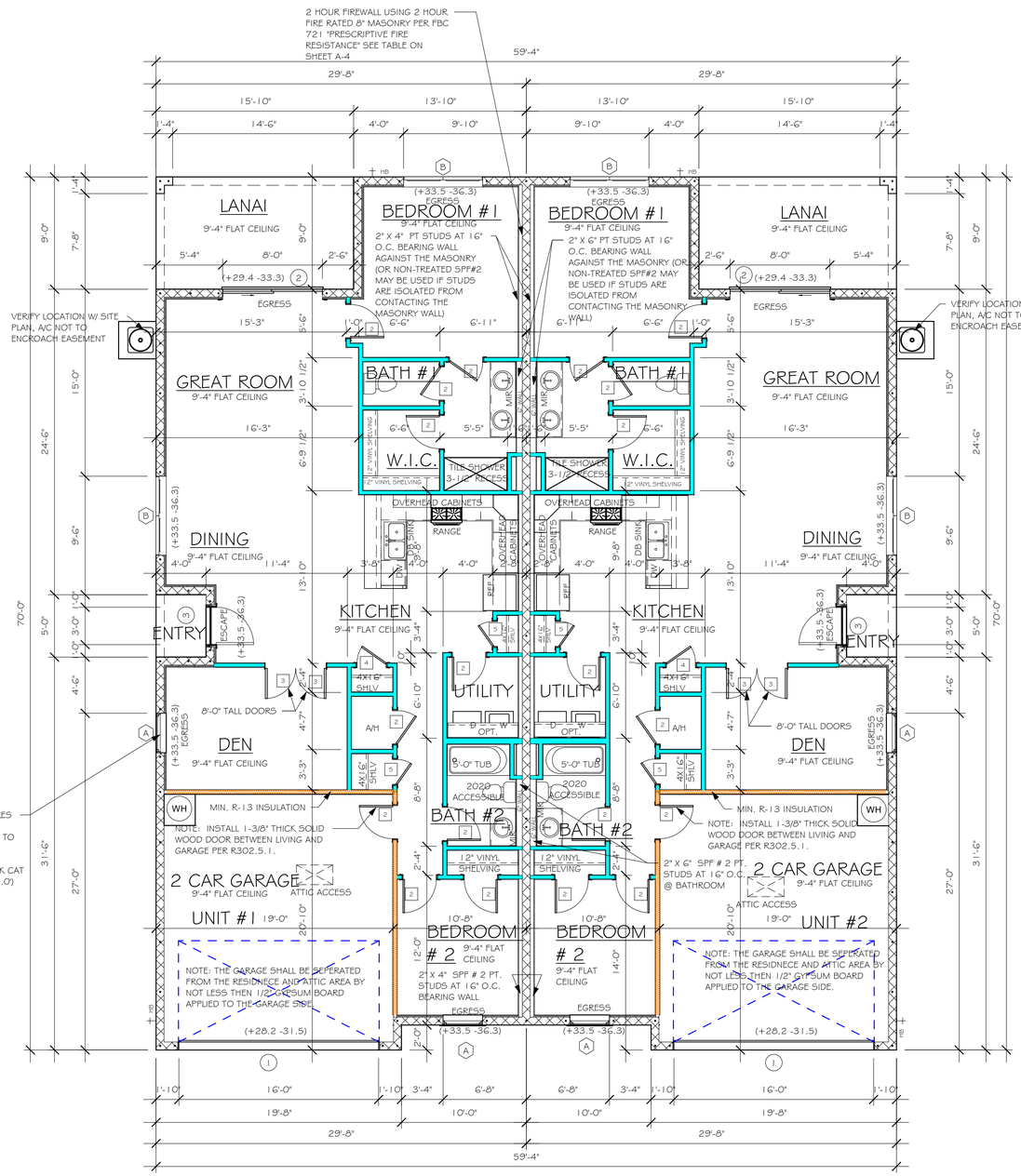
CABINET BACKING

KITCHEN	UPPER TOP @ 84"	BASE TOP @ 35"
MASTER BATH	UPPER	BASE TOP @ 35"
GUEST BATH	UPPER	BASE TOP @ 31"
LAUNDRY ROOM	UPPER TOP @ 84"	BASE



	BATHROOM NOTES
TB TOWEL BAR	ALL TUB DECKS @ 21" A.F.F
TP TOILET PAPER	ALL BLOCKING TO BE PT IN SHOWERS





FLOOR PLAN
3/16" = 1'-0"

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2020 - 7TH EDITION

D·R·HORTON® America's Builder
Gulf Coast Drafting & Design, Inc.
EMAIL: PLANS@GULFCOASTDRAFTING.COM
PHONE: 239-540-1822
1515 SE 47TH ST. CAPE CORAL, FL 33904
STRUCTURAL SYSTEMS OF NORTH FLORIDA
1034 SE 47th ST SUITE #3
CAPE CORAL, FLORIDA 33904
(239) 549-4554
CA# 8859

DEREK W. BERGENER LICENSE No. 58552 STATE OF FLORIDA PROFESSIONAL ENGINEER

MODEL 1503
VILLA F

LOT: 126, 127 | SUBDIVISION: PALENCIA TVs | ADDRS: 245, 249 IBIZA LOOP | D.R.H. #: 5798202003, 204

GCD JOB # 13910

DATE: 11/19/21

DRAWN BY: CWL

CHECKED BY: JWC

REVISED:

PLAN: FLOOR

SCALE: As indicated

A-3

	TRUSS STRAPPING TO MASONRY		
	MAX TRUSS UPLIFT (LBS)	STRAP/ANCHOR Valid lengths x/x/x/	FASTENER
INSTALL META16 AT ALL TRUSSES TO 1450 lb UPLIFT. FOR HIGHER UPLIFTS, SEE NOTES ON PLAN. →	1450 (1 PLY)	(1) META16/18/20	(8) 0.148x1-1/2 ", EMBED 4"
	1810 (1 PLY)	(1) HETA16/20	(9) 0.148x1-1/2", EMBED 4"
	1875 (1 PLY)	(2) META16/18/20	(10) 0.148x1-1/2", EMBED 4"
	1920 (1 PLY)	(2) HETA16/20	(10) 0.148x1-1/2", EMBED 4"
	2120 (1 PLY)	(2) HHETA16/20	(10) 0.148x1-1/2", EMBED 4"
	1795 (2 OR 3 PLY)	(2) META16/18/20	(14) 0.162x3-1/2", EMBED 4"
	2365 (2 OR 3 PLY)	(2) HETA16/20	(12) 0.162x3-1/2", EMBED 4"
	3965 /DF /SP (2 PLY)	MGT	(22) 0148x3" ATR, EPOXY 12"
	3000 /DF /SP (1 PLY 2x4)	HTT4	(18) 0.148x1-1/2", 5/8" ATR, EPOXY 12"
	4455 /DF /SP (1 PLY 2x6)	HTT4	(18) SD#10x1-1/2", 5/8" ATR, EPOXY 12"
	4235 /DF /SP (2 PLY 2x4)	HTT4	(18) 0.162x2-1/2", 5/8" ATR, EPOXY 12"
	4555 /DF /SP (1 PLY 2x6)	HTT5	(26) SD#10x1-1/2", 5/8" ATR, EPOXY 12"
	4670 /DF /SP (2 PLY 2x4)	HTT5	(26) 0.148x3", 5/8" ATR, EPOXY 12"
	5445 /DF /SP (2 PLY 2x4)	HTT5KT	(26) SD#10x2-1/2", 5/8" ATR, EPOXY 18"
	10690 /DF /SP (2 PLY)	(1)HGT - 2	(16) 0.148x3", (2) 3/4" ATR, EPOXY 12"
	10790 /SYP (3PLY)	(1)HGT - 3	(16) 0.148x3", (2) 3/4" ATR, EPOXY 12"

NOTES:

1. PROVIDE A STRAP FROM THE ABOVE LIST AT EACH ROOF TRUSS BEARING POINT, BASED ON THE TRUSS UPLIFT VALUES IN THE SIGNED AND SEALED TRUSS DESIGN PACKAGE AND SUITABLE FOR THE GEOMETRY. EMBED STRAP ON CENTERLINE OF WALL.
2. ANY OF THE VALID LENGTHS SHOWN MAY BE USED IN PLACE OF THE LENGTH SPECIFIED ON PLAN.
3. CONNECTORS ARE SIMPSON STRONG TIE. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTUCTIONS. SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE ENGINEER OF RECORD.
4. WHERE EMBEDDED STRAPS ARE MISSING, OR MIS-LOCATED, INSTALL RETROFIT STRAP PER 10/S-3. PER UPLIFT IN TRUSS ENGINEERING.

SIMPSON CATALOG C-C- 2019

	TRUSS STRAPPING TO STUDWALL/ WOOD BEAM		
	MAX TRUSS UPLIFT (LBS)	STRAP(S) Valid lengths x/x/x	FASTENER
INSTALL AT ALL TRUSSES TO 850 lb UPLIFT. FOR HIGHER UPLIFTS, SEE NOTES ON PLAN. →	850 1700 2550	(1)MTS16/20/30 (2) MTS16/20/30 (3) MTS16/20/30	(14) 0.148x1-1/2" or 3" EACH STRAP
	1125 2250 3375 4500	(1) HTS20/24/30 (2) HTS20/24/30 (3) HTS20/24/30 (4) HTS20/24/30	(24) 0.148x1-1/2" OR (20) 0.148x3" EACH STRAP

NOTES:

1. PROVIDE A STRAP FROM THE ABOVE LIST AT EACH ROOF TRUSS BEARING POINT, BASED ON THE TRUSS UPLIFT VALUES IN THE SIGNED AND SEALED TRUSS DESIGN PACKAGE.
2. ANY OF THE VALID LENGTHS SHOWN MAY BE USED IN PLACE OF THE LENGTH SPECIFIED ON PLAN.
3. 1-1/2" NAIL SHALL BE USED IN 1 PLY LUMBER, 2 PLY LUMBER IS REQUIRED FOR 3" NAILS.
4. CONNECTORS ARE SIMPSON STRONG TIE. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTUCTIONS.

SIMPSON CATALOG C-C- 2019

MODEL 1503: ATTIC VENTILATION FBCR R806

COORDINATE VENTING REQUIREMENTS WITH ENERGY CALCULATIONS

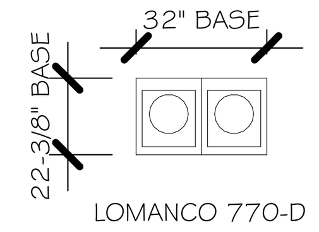
AREAS (SQ. FT.)			SOFFIT ONLY (1/150) (NO ROOF VENTS) ATTIC VENTILATION REQUIRED (ATTIC AREA/150=14.55 SQ. FT.)		WITH ROOF VENTS (1/300) (R.V.) ATTIC VENTILATION REQUIRED (ATTIC AREA/300 =7.28 SQ. FT.)	
MARK	ATTIC	SOFFIT	REQ'D AIR FLOW OF SOFFIT	QUAD 4 SOFFIT HAS	QUANTITY OF ROOF VENTS	MIN AIR FLOW OF SOFFIT
1	2183.0 SQ. FT.	148.0 SQ. FT.	9.83%	8.15%	4	2.7%
			"SOFFIT ONLY" DOES NOT QUALIFY		ROOF VENTS ARE REQUIRED	

SOFFIT MODEL

ACM QUAD 4, FULL VENT, NARROW PATTERN, 8.15% FREE AIR FLOW

THE ACM QUAD 4 IS ONLY AN EXAMPLE OF WHAT CAN WORK. CONTRACTOR MAY INSTALL ANY BRAND OF VENTED SOFFIT THAT PROVIDES AT LEAST THE REQ'D AIR FLOW SHOWN ABOVE, AND MEETS WIND PRESSURES PER FBC R704.

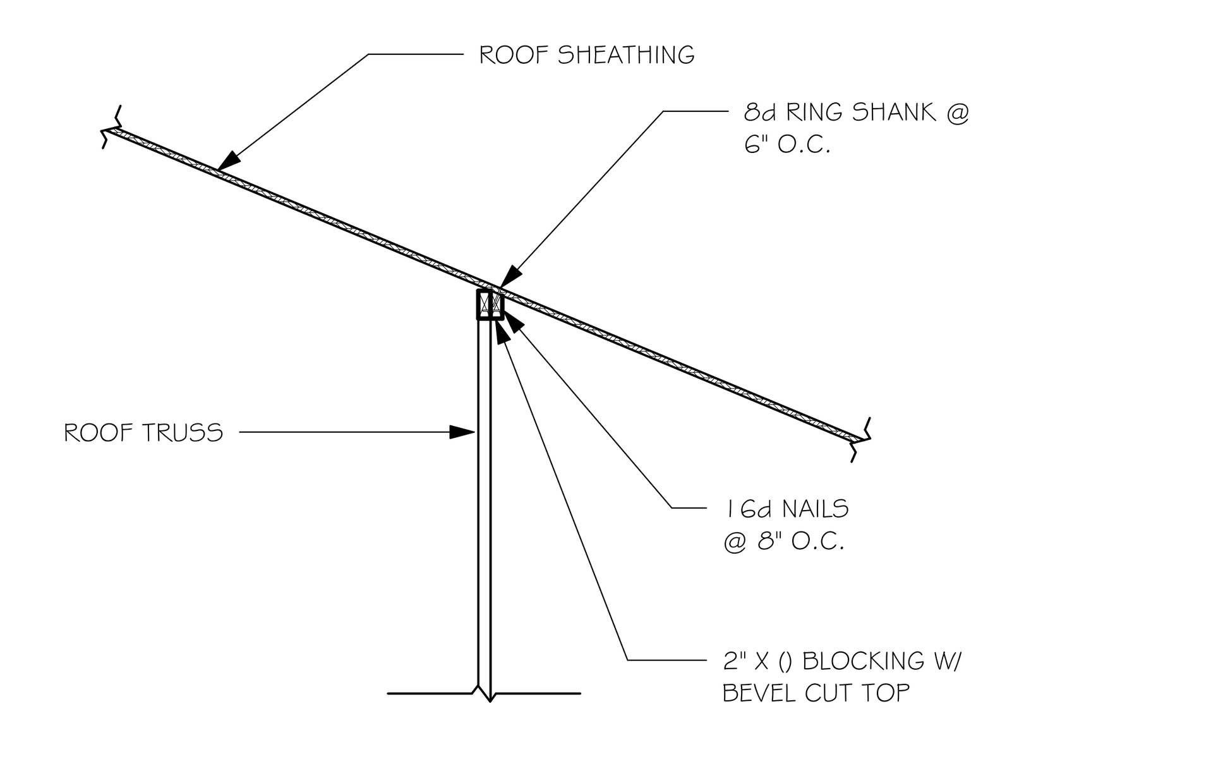
ROOF VENT MODEL



LOMANCO 770-D
0.97 SQ. FT. FREE AIR

BEARING HEIGHT

= BEARING @ 9'-4"



BEVELLED BLOCKING
1/2" = 1'-0"

PLAN NOTES:

1. ROOF TRUSS BEARING ELEVATION VARIES, SEE LEGEND.
2. ROOF FRAMING SHALL BE WOOD TRUSSES DESIGNED BY A DELEGATED TRUSS ENGINEER PER DESIGN CRITERIA ON SHEET S-1.
3. PROVIDE STRAPPING AT TRUSSES PER NOTES ON THIS SHEET.
4. FOR NAILING OF ROOF DECK, SEE 1 AND 2 ON S-1.
5. 8F8-1B etc., DENOTES PRECAST LINTEL ABOVE DOOR/WINDOW OPENING PER SCHEDULE THIS SHEET.
6. AT TRUSS BEARING, PROVIDE 8x8 MASONRY BOND BEAM W/ 1 #5 CONTINUOUS, SEE DETAIL 11/S-1.

2 HOUR FIREWALL USING 8" MASONRY PER FBC 721 "PRESCRIPTIVE FIRE RESISTANCE"

F.B.C. TABLE 722.3.2

MINIMUM EQUIVALENT THICKNESS[1] (IN) BEARING OR NON-BEARING CONCRETE MASONRY WALLS

TYPE OF AGGREGATE	FIRE - RESISTANCE RATING (HOURS)	
	2	HR
1. PUMICE OR EXPANDED SLAG	3.2"	
2. EXPANDED SHALE, CLAY OR SLATE	3.6"	
3. LIMESTONE, CINDERS, OR UNEXPANDED SLAG	4.0"	
4. CALCAREOUS OR SILICEOUS GRAVEL	4.2"	

FOR THE 2 HOUR FIREWALL, PURCHASE ONLY BLOCK WITH 2 HOUR FIRE RATED MARKING, LABEL OR DOCUMENTATION.

FIRE RESISTANCE RATINGS - ANSI/UL 263 (BXUV)

Design No. U301	Bearing Wall Rating 2 HR.	Finish Rating 66 Min.

1. **Nailheads** - Exposed or covered with joint finisher.
2. **Joints** - Exposed or covered with fiber tape and joint finisher. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.
3. **Nails** - 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam, 1/4 in. diam heads, and 8d cement coated nails 2-3/8 in. long, 0.113 in. shank diam, 9/32 in. diam heads.
4. **Gypsum Board** - * - 5/8 in. thick , two layers applied either horizontally or vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6" o.c. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8" o.c. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
When used in widths other than 48 in., gypsum board to be installed horizontally.
When Steel Framing Members* (Item 6) are used, base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced max. 24 in. o.c.; face layer attached with 1-5/8 in. long Type S bugle-head steel screws spaced max. 12 in. o.c.
AMERICAN GYPSUM CO - Types AG-C, AGX-11, AGX-C.
BEIJING NEW BUILDING MATERIALS CO LTD - Type DBX-1.
CERTAINTEED GYPSUM, INC.- Types 1, FRPC, EGRG, ProRoc Type C or ProRoc Type X.
CERTAINTEED GYPSUM CANADA, INC. - ProRoc Type C, ProRoc Type X, ProRoc Type Abuse-Resistant.
CANADIAN GYPSUM COMPANY - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX.
G-P GYPSUM CORP, SUB OF GEORGIA-PACIFIC CORP - Types 5, 9, C, DAP, DD, DA, DGG, DS, GPFS6.
LAFARGE NORTH AMERICA INC - Types LGFC-C, LGFC2, LGFC2A, LGFC6, LGFC6A, LGFC-C/A.
NATIONAL GYPSUM CO - Types FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-C, FSW-G.
PABCO GYPSUM, DIV OF PACIFIC COAST BUILDING PRODUCTS INC - Types C, PG-2, PG-3, PG-3W, PG-4, PG-5, PG-5W, PG-5WS, PG-9 or PG-C.
TEMPLE-INLAND FOREST PRODUCTS CORP - Type TG-C.
SIAM GYPSUM INDUSTRY (SARABURI) CO LTD - Type EX-1.
STANDARD GYPSUM L L C - Types SGC, SG-C or SGC-G.
UNITED STATES GYPSUM CO - Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX.
USG MEXICO S A DE C V - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX.

4A. **Gypsum Board*** - (As an alternate to Item 4) - Nom. 3/4 in. thick , installed as described in Item 4.
CANADIAN GYPSUM COMPANY - Types AR, IP-AR.
UNITED STATES GYPSUM CO - Types AR, IP-AR.
USG MEXICO S A DEV C V - Types AR, IP-AR.

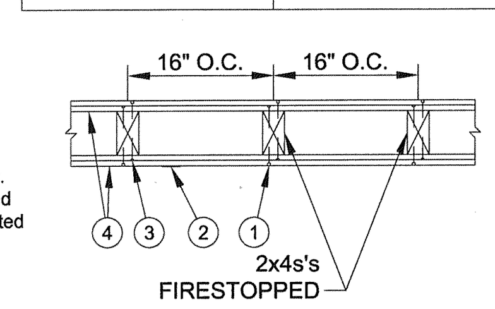
4B. **Gypsum Board*** - (As an alternate to Items 4 and 4A) - 5/8 in. thick , 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 4. Joint covering (Item 2) not required.
CANADIAN GYPSUM COMPANY - Types SHX.
UNITED STATES GYPSUM CO - Types SHX.
USG MEXICO S A DEV C V - Types SHX.

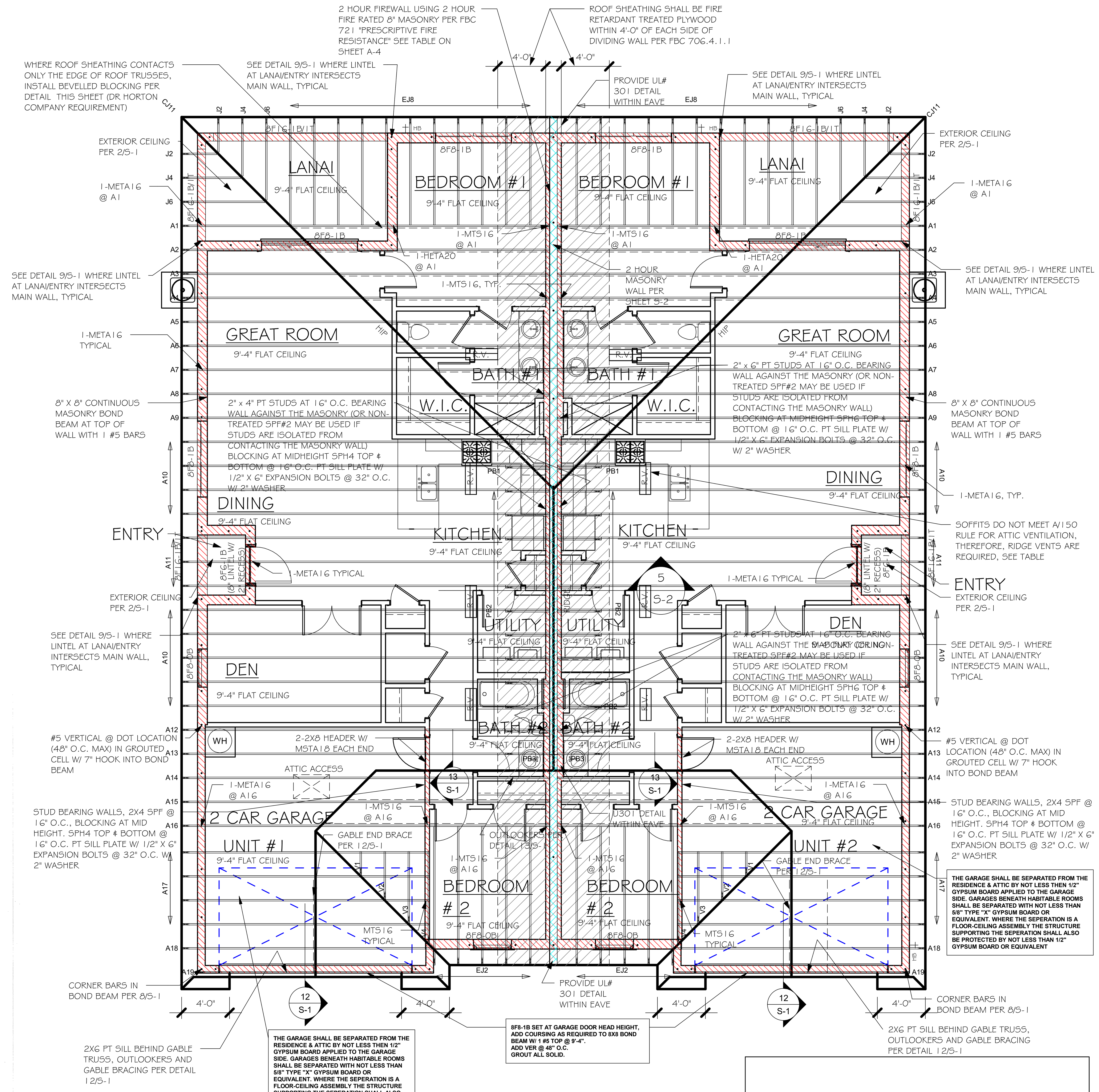
5. **Molded Plastic*** - Not shown, Optional - Solid vinyl siding mechanically secured over the outer layer to framing members in accordance with manufacturer's recommended installation details.
ASSOCIATED MATERIALS INC
ALSIDE, DIV OF
GENTEK BUILDING PRODUCTS LTD
HEARTLAND BUILDING PRODUCTS INC
VYTEC CORP
NEBRASKA PLASTICS INC

6. **Steel Framing Members** - (Optional, Not shown)* - Furring channels and resilient sound isolation clip as described below:
A. **Furring Channels** - Formed of No. 25 MSG galv. steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. o.c. perpendicular to studs. Channels secured to studs as described in Item B. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv. steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Wallboard attached to furring channels as described in Item 4.
B. **Steel Framing Members*** - Resilient sound isolation clip used to attach furring channels (Item 6A) to studs. Clips spaced 48 in. o.c. and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

PAC INTERNATIONAL INC - Type RSIC-1.

*Bearing the UL Classification Mark





ROOF PLAN
3/16" = 1'-0"

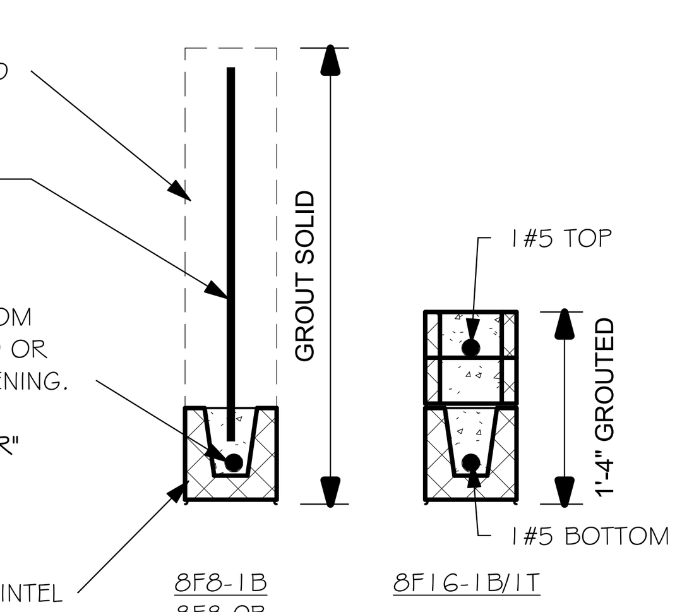
TRUSS BEARING CONDITIONS AND STRAPPING BASED ON TRUSS LAYOUT PREPARED BY SCOSTA JOB# DR1503-160C DATED: 02/17/21 REVISED: NONE

WALL ABOVE WITH BOND BEAM AT TOP

#5 VERTICAL, ABOVE LINTEL ONLY WHERE NOTED ON PLAN

'1B' DENOTES 1#5 BOTTOM WITH 7" HOOK EACH END OR EXTEND 24" BEYOND OPENING.

'OB' DENOTES "NO REBAR"



PRECAST LINTEL SCHEDULE

AT SWING DOORS, USE 2" RECESS STYLE LINTEL IF NEEDED FOR ROUGH OPENING.

LINTELS BEAR 4" MIN. EACH END

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2020 - 7TH EDITION

Y:\0-New Data\1-MASTER 2019\2019-BUILDERS\DR HORTON 2019\SUBDIVISIONS\PALENCIA TVs\13910 LOT 126-127 1503 F\REV1\13910 1503 F.rvt

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PHONE: 239-540-1822
1515 SE 47TH ST. CAPE CORAL, FL 33904

STRUCTURAL SYSTEMS
STRUCTURAL ENGINEERING
CAPE CORAL, FL 33904

This is a multi-page document. I performed structural engineering only on those pages which contain my seal. Derek Bergener, and company name Structural Systems.

DEREK W. BERGENER LICENSE No. 58552 STATE OF FLORIDA PROFESSIONAL ENGINEER

LOT: 126, 127
SUBDIVISION: PALENCIA TVs
ADDRS: 245, 249 IBIZA LOOP
D.R.H. #: 579820203, 204

MODEL 1503
VILLA F

GCD JOB # 13910

DATE:	11/19/21
DRAWN BY:	CWL
CHECKED BY:	JWC
REVISED:	
PLAN:	ROOF
SCALE:	As indicated

A-4

ELECTRICAL LEGEND

	ELECTRICAL METER
	ELECTRICAL PANEL
J	120 V JUNCTION BOX
	SINGLE RECEPTACLE OUTLET
	220 V RECEPTACLE OUTLET
	4-PLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	1/2 SWITCHED DUPLEX OUTLET
WP	DUPLEX RECEPTACLE AT ELEV. A.F.F.
	DUPLEX RECEPTACLE - ABOVE COUNTER
$	SINGLE POLE SWITCH
$3	3 WAY SWITCH
$D	DIMMER SWITCH
$MS	MOTION SENSOR SWITCH
SD SCD	AC/DC SMOKE DETECTOR TO BE INTERCONNECTED ANY RESIDENT HAVING A FOSSIL-BURNING HEATER OR APPLIANCE, A FIREPLACE, OR AN ATTACHED GARAGE SHALL HAVE AN OPERATIONAL CARBON MONOXIDE ALARM INSTALLED WITHIN 10 FEET OF EACH ROOM USED FOR SLEEPING PERPOSES. PER RULE 9B-3.04.72 SD (SMOKE DETECTOR) SCD (CARBON MONOXIDE/ SMOKE DETECTOR)
T	TELEPHONE OUTLET
TV	TELEVISION RECEPTION OUTLET
	SURFACE MOUNTED CEILING LIGHT
	FLUSH MOUNTED LIGHT
	WALL MTD. BRACKET LIGHT
	DUPLEX FLOOD LIGHT
	EXHAUST FAN
	TRACK MTD. LIGHTS
	A/C DISCONNECT
PB	PUSH BUTTON (PB) / DOOR BELL (DB)
IC	INTERCOM
KP	KEYPAD
	4' FLUORESCENT LIGHT
	2' UNDER COUNTER LIGHT

NOTE: NOT ALL SYMBOLS ARE USED FOR THIS PROJECT.

ELECTRICAL NOTES:

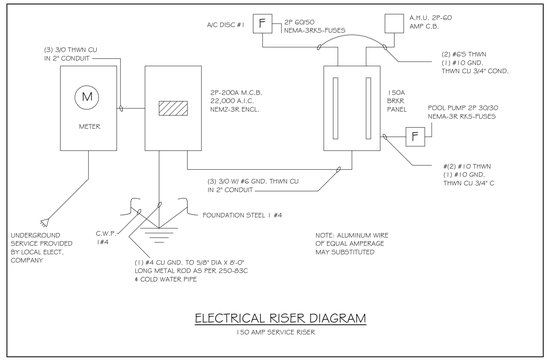
ARC-FAULT CIRCUIT-INTERRUPTERS AND TAMPER RESISTANT RECEPTACLES SHALL BE INSTALLED IN DWELLING UNITS PER N.E.C 210.12 AND 406.11

ALL ELECTRIC, ELECTRICAL EQUIPMENT AND APPLIANCES TO BE SET AT OR ABOVE BASE FLOOD ELEVATION PLUS 1'-0" FREEBOARD.

ALL OUTLETS IN WET AREAS AND ALL EXTERIOR OUTLETS TO BE GFI'S.

INSTALL PHONE AND T.V PER CONTRACT.

INSTALL ALL ELECTRICAL PER NEC 2017



ELECTRICAL RISER DIAGRAM

150 AMP SERVICE RISER

AIR CONDITIONING COORDINATION REQUIRED.
PRIOR TO ORDERING ROOF TRUSSES, THE CONTRACTOR SHALL WORK WITH THE AIR CONDITIONING SUB CONTRACTOR TO DESIGN/PLAN AND LAYOUT THE LOCATION OF AIR HANDLING EQUIPMENT, AIR DUCT SIZE AND LOCATION AND COORDINATE THAT DESIGN WITH THE TRUSSES FOR SPACE, CONNECTIVITY, AND POSITION REQUIREMENTS.
THE CONTRACTOR MUST ADVISE THE TRUSS COMPANY PRIOR TO ANY CONSTRUCTION OF TRUSSES OF THE AIR CONDITIONING/HANDLING EQUIPMENTS SIZES AND WEIGHT AND DUCT LAYOUT CONCERNS OR REQUIREMENTS THAT MAY HAVE THE POTENTIAL TO CHANGE OR MODIFY THE TRUSSES TO ACCOMODATE THE SAME.
THE CONTRACTOR SHALL COORDINATE CONDENSATION DISCHARGE LINE LOCATION, AND ELECTRICAL SERVICE TO AIR EQUIPMENT, AND PROVIDE ANY LOCAL DISCONNECTS, LIGHTS AND SERVICE PLATFORMS THAT MAY BE REQUIRED.

ELECTRICAL NOTES FOR FIRE RATED WALLS

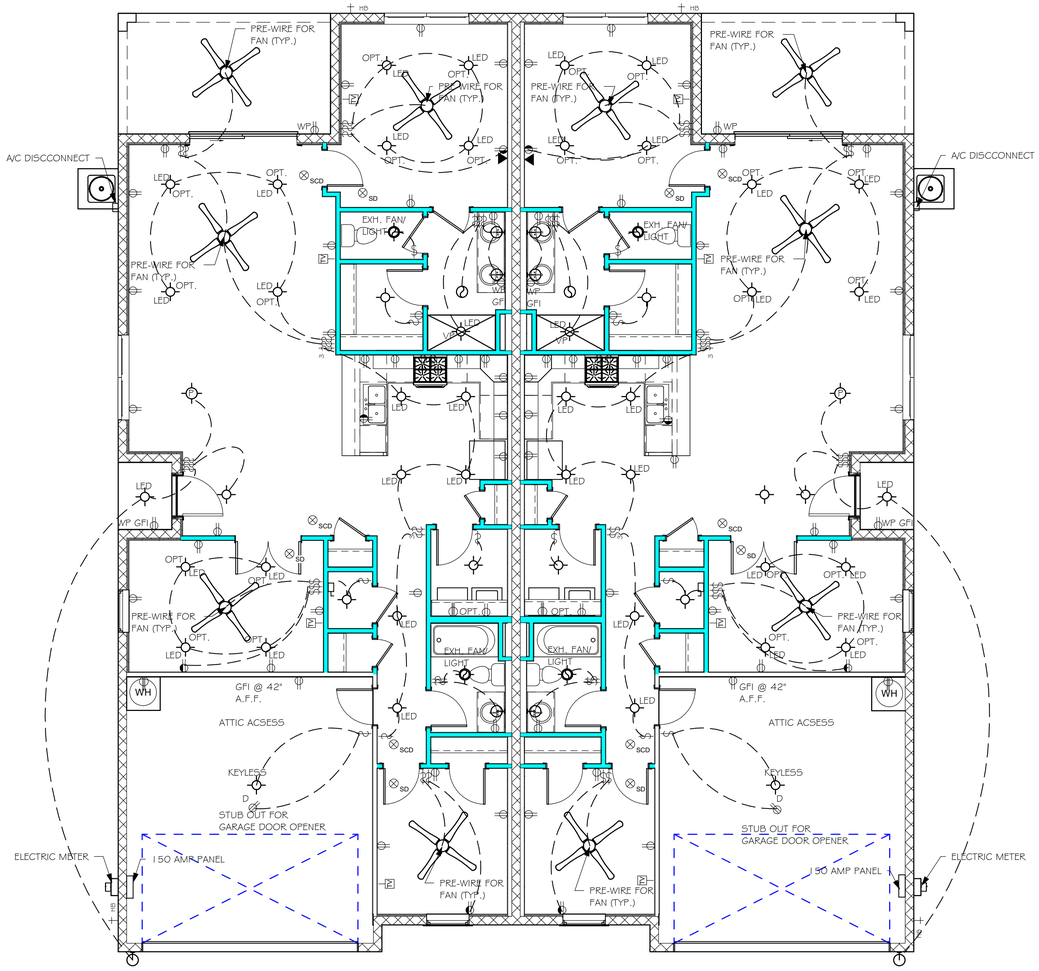
ELECTRICAL OUTLETS PLACED IN FIRE RATED WALLS SHALL BE IN CONFORMANCE WITH THE UNDERWRITERS LABORATORIES, INC., FIRE RESISTANCE DIRECTORY, CURRENT EDITION. THESE REQUIREMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING SPECIFIC ITEMS:

A) INDIVIDUAL OUTLET/SWITCH BOXES SHALL OT EXCEED (16) SQUARE INCHES IN AREA.

B) AGGREGATE AREA OF OUTLET/SWITCH BOXES SHALL NOT EXCEED (100) SQUARE INCHES WITHIN (100) SUARE FEET OF WALL AREA.

C) OUTLET/SWITCH BOXES LOCATED ON OPPOSITE SIDE OF THE SAME WALL SHALL BE SEPERATED BY A MINIMUM OF (24) INCHES.

D) ALL OUTLET/SWITCH BOXES SHALL BE SECURELY ATTACHED TO THE STUDS AND THE OPENING IN THE WALL BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE WALLBOARD DOES NOT EXCEED 1/8 INCH.



ELECTRCAL PLAN

3/16" = 1'-0"

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2020 - 7TH EDITION

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DHI NYSE

Gulf Coast Drafting & Design, Inc.
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LOT: 126, 127
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MODEL 1503
VILLA F

GCD JOB # 13910

DATE: 11/19/21
DRAWN BY: CWL
CHECKED BY: JWC
REVISED:
PLAN: ELECTRICAL
SCALE: As indicated

A-5

Y:\10-New Data\1-MASTER 2019\2019-BUILDERS\DR HORTON 2019\SUBDIVISIONS\PALENCIA TVs\13910 LOT 126-127 1503 F\REVIT\13910 1503 F.rvt

1

RESIDENTIAL SPECIFICATIONS

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL REPORT ALL DISCREPENCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS TO THE DESIGNER PRIOR TO COMMENCING WORK.

2. THE CONTRACTOR SHALL SUPPLY, LOCATE AND BUILD INTO THE WORK ALL INSERTS, ANCHORS, ANGLES, PLATES, OPENINGS, SLEEVES, HANGERS, SLAB DEPRESSIONS AND PITCHES AS MAY BE REQUIRED TO ATTACH AND ACCOMMODATE OTHER WORK.

3. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUCTED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE IN THE WORK EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

4. FOR REQUIRED SOIL BEARING, SEE STRUCTURAL. THE CONTRACTOR SHALL REPORT ANY DIFFERING CONDITIONS TO THE DESIGNER PRIOR TO COMMENCING WORK.

5. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUCTION WITH JOB SPECIFICATION AND HOUSE PLANS, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS, CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

6. ALL SPECIFIED FASTENERS MAY ONLY BE SUBSTITUTED IF APPROVED BY THE ENGINEER IN WRITING, THE INSTALLATION OF THE FASTENERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. SIMPSON FASTENERS SPECIFIED MAY BE SUBSTITUTED WITH THE SAME QUANTITY AND EQUIVALENT STRENGTH PRODUCT. ALL BOLTS, NUTS, WASHERS, STRAPS AND FASTENERS INCLUDING NAILS, SHALL BE HOT MOPED DIPPED GALVANIZED OR STAINLESS STEEL CONTINUOUS ANCHORAGE SHALL BE PROVIDED BETWEEN ALL TRUSSES, WALL SECTIONS, BEAMS, POSTS AND FOOTINGS WITH USE OF STRAPS AND CONNECTORS AS SPECIFIED HEREIN.

7. TREATED WOOD REQUIREMENTS:- ALL TREATED WOOD EXPOSED TO WEATHER SHALL BE PROTECTED, PRESSURE TREATED, OR NATURALLY RESISTANT TO DECAY. ALL WOOD TOUCHING MASONRY OR CONCRETE SHALL BE ISOLATED, OR PRESSURE TREATED.

8. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILTY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES TO ENSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIE DOWNS.

9. CEILING DRYWALL INSTALLED WITHIN THE HOUSE TO TRUSSES SPACED 24" O.C. SHALL BE 5/8" DRYWALL OR 1/2" SAG RESISTANT PER SEC. 702.3.5

10. LANAI CEILINGS & COVERED ENTRY CEILINGS 1X4 STRIPPING @ 16" O.C. FASTENED WITH 2-8d NAILS TO EACH TRUSS. 5/8" EXTERIOR GYP. BOARD CEILING FASTENED WITH 8d NAILS OR 1-5/8" DRYWALL SCREWS @ 6" O.C. EDGE AND FIELD.

2

DOOR AND WINDOW ANCHORAGE

ANCHORAGE REQUIRMENTS- ALL PASS AND SLIDING GLASS DOORS AND ALL WINDOW ASSEMBLIES SHALL BE ANCHORED TO THE MAIN WIND FORCE RESISTING SYSTEM IN A MANNER SPECIFIED BY THE PUBLISHED MANUFACTURERS LITERATURE. THERE SHALL BE NO SUBSTITUTION OF ALTERNATE FASTENINGS UNLESS PROVIDED BY THE MANUFACTURER AND APPROVED BY THE BUILDING DESIGN ENGINEER.

MASONRY OPENING

WHERE WINDOW FRAME IS DESIGN TO FASTEN WITH SCREWS THROUGH THE FRAME AND INTO THE MSANORY, THE BUCK MATERIAL IS SIMPLY A SPACER. THE BUCK MAY BE FASTENED WITH THE T NAILS OR ANY SUITABLE FASTENER TO TACK IT INTO POSITION PRIOR TO WINDOW INSTALLATION. FASTEN WINDOW FRAME PER MFR INSTRUCTIONS. A WINDOW FASTENER SHALL PENETRATE MASONRY BY 2 1/4" MIN.

WHERE WINDOW FRAME IS DESIGNED TO FASTEN ONLY TO THE WOOD BUCK (IE, FLANGED FRAME WITH WOOD SCREWS) THE BUCKS SHALL BE 2X WOOD WITH STRUCTURAL FASTENING TO THE MASNORY WITH 1/4 X 3 3/4 MASONRY SCREWS @ 24" OC AND 6" FROM EACH END.

WOOD FRAMED OPENING- ALL DOORS AND WINDOWS SHALL BE INSTALLED ACCORDING TO THE PUBLISHED MANUFACTURERS LITERATURE OF THE ASSEMBLY BEING INSTALLED TO THE ROUGH SUBSTRATE OPENING. SHIMS SHALL BE MADE OF MATERIALS CAPABLE OF RESISTING THE APPLIED LOADS AND SHALL BE LOCATED NEAR EACH FRAME FASTENER TO MINIMIZE DISTORTION OF THE FRAME AS THE FASTENERS ARE TIGHTENED .

3

GENERAL ROOF ASSEMBLY

ROOF SHEATHING FBCR TABLE R803.2.2

SHALL BE 19/32 APA RATED SHEATHING, EXPOSURE 1, SPAN RATING 40/20 OR BETTER.INSTALL PANELS WITH LONG DIMENSION PLACED PERPENDICULAR TO TRUSSES. A 1/8" SPACE BETWEEN ADJACENT SHEETS SHALL BE MAINTAINED . INSTALL "H" CLIPS AT UNSUPPORTED PANEL EDGES. FOR FASTENING, SEE STRUCTURAL.

FLASHING

FLASHING SHALL BE ALUMINUM, ALUMINUM ZINC COATED STEEL 0.0179" THICK, 26 GAUGE AZ50 ALUM ZINC, OR GALVANIZED STEEL 0.0179" THICK, 26 GAUGE ZINC COATED G90. FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH THE ZIP SYSTEM ROOF SHEATHING MANUFACTURES PUBLISHED REQUIREMENTS. ALL FLASHING AND INSTALLATION SHALL CONFORM TO SECTION R905.2.8 (1 TO 5).

DRIP EDGE

DRIP EDGE SHALL BE PROVIDED AT ALL EAVES AND GABLES OF SHINGLES ROOFS, LAPPED A MINIMUM OF 3" @ JOINTS. THE OUTSIDE EDGE SHALL EXTEND A MINIMUM OF 1/2" BELOW SHEATHING AND THE INSIDE EDGE SHALL EXTEND BACK A MINMUM OF 2". DRIP EDGE SHALL BE FASTENED AT NO MORE THAN 4" CENTERS. THERE SHALL BE A MINIMUM OF 4" WIDTH OF ROOF CEMENT INSTALLED OVER THE DRIP EDGE FLANGE.

4

ASPHALT SHINGLE ROOF SPEC'S

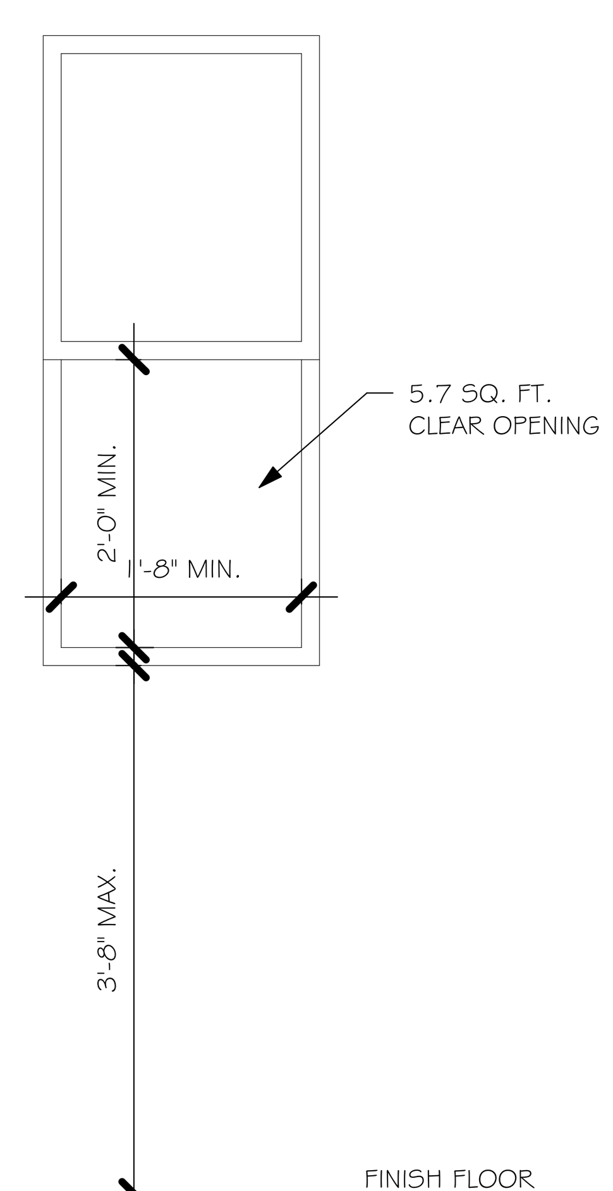
SHINGLES

30# FELT SHALL BE INSTALLED UNDER ASPHALT SHINGLES. ALL ASPHALT SHINGLES SHALL HAVE SELF-SEALING STRIPS OR BE INTERLOCKING AND COMPLY WITH ASTM D 225 OR D 3462. FOR FASTENING, SEE STRUCTURAL. INSTALLATION SHALL COMPLY WITH MANUFACTURES REQUIREMENTS FOR INSTALLATION IN THE GIVEN FLORIDA WIND ZONE, AS DETERMINED BY ASTM D 3161.

5

CLAY AND CONCRETE ROOF TILE SPECS

INSTALL PEEL AND STICK UNDERLAYMENT APPROVED FOR SINGLE LAYER APPLICATION UNDER TILE ROOF.
THE INSTALLATION OF CLAY AND CONCRETE TILE SHALL COMPLY WITH THE PROVISIONS OF R905.3 F.B.C.
MARKING: EACH ROOF TILE SHALL HAVE A PERMANENT MANUFACTURER'S IDENTIFICATION MARK.
APPLICATION SPECIFICATIONS: THE TILE MANUFACTURER'S WRITTEN APPLICATION SPECIFICATIONS SHALL BE AVAILABLE AND SHALL INCLUDED BUT NOT BE LIMITED TO THE FOLLLOWING:
1. TILE PLACEMENT AND SPACING,
2. ATTACHMENT SYSTEM NECESSARY TO COMPLY WITH CURRENT WIND CODE,
   A. AMOUNT AND PLACEMENT OF MORTAR
   B. AMOUNT AND PLACEMENT OF ADHESIVE
   C. TYPE, NUMBER, SIZE AND LENGTH OF FASTENERS AND CLIPS.
3. UNDERLAYMENT
4. SLOPE REQUIREMENT.



R310.2.1 MINMUM OPENING AREA- ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET (0.530 m^2).

EXCEPTION- GRADE FLOOR OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5 SQUARE FEET (0.465 m^2).

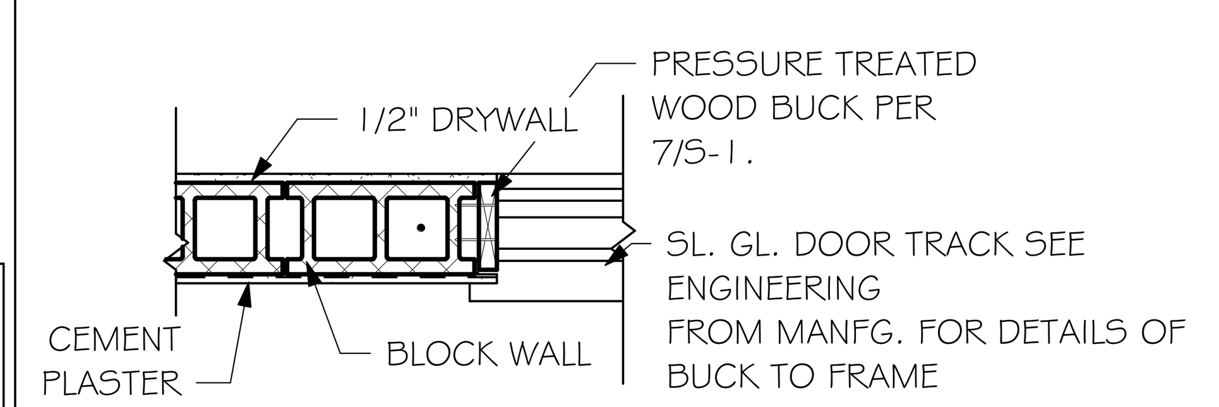
R310.2.1 MINMUM OPENING HEIGHT- THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24 INCHES (610mm).

R310.2.1 MINMUM OPENING WIDTH- THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20 INCHES (508mm).

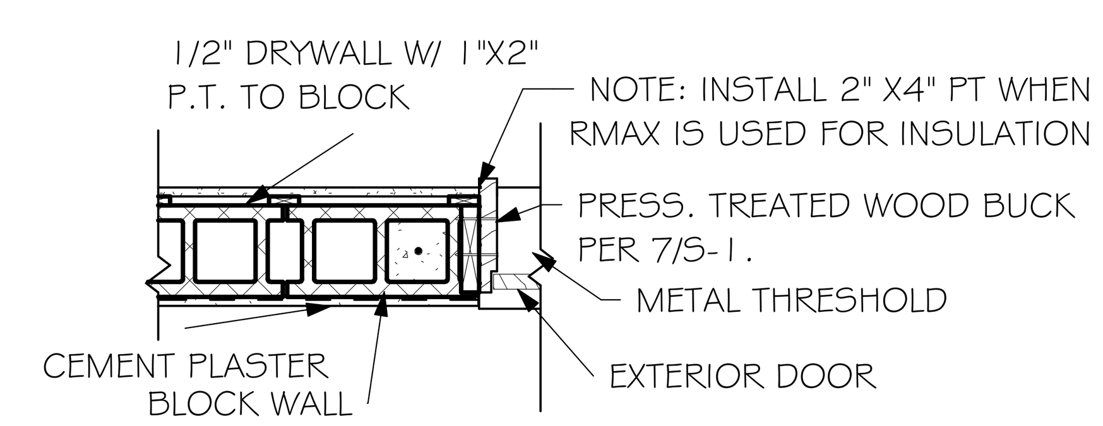
R310.1.1 OPERATIONAL CONSTRAINTS- EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS OR TOOLS.

R310.2.3 WINDOW WELLS- THE MINIMUM HORIZONTAL AREA OF THE WINDOW WELL SHALL BE 9 SQUARE FEET (0.84 m^2), WITH A MINIMUM HORIZONTAL PROJECTION AND WIDTH OF 36 INCHES (914mm). THE AREA OF THE WINDOW WELL SHALL ALLOW THE EMERGENCY ESCAPE AND RESCUE OPENING TO BE FULLY OPENED.

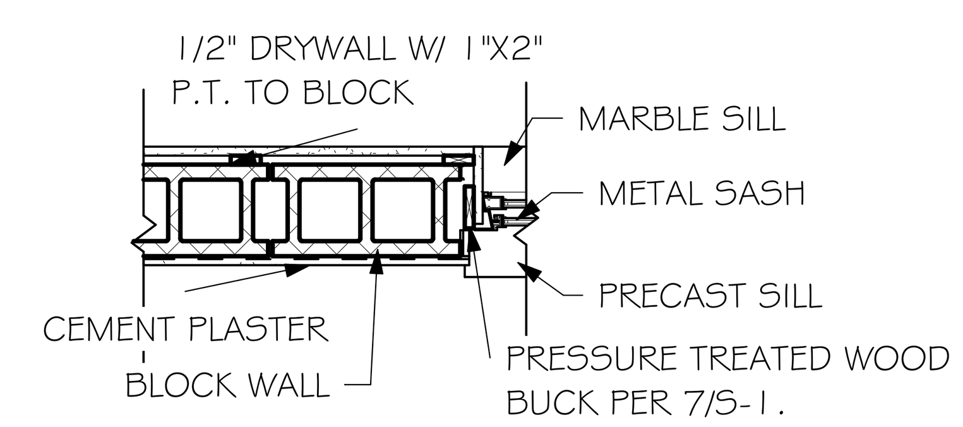
MINIMUM EGRESS WINDOW DETAIL



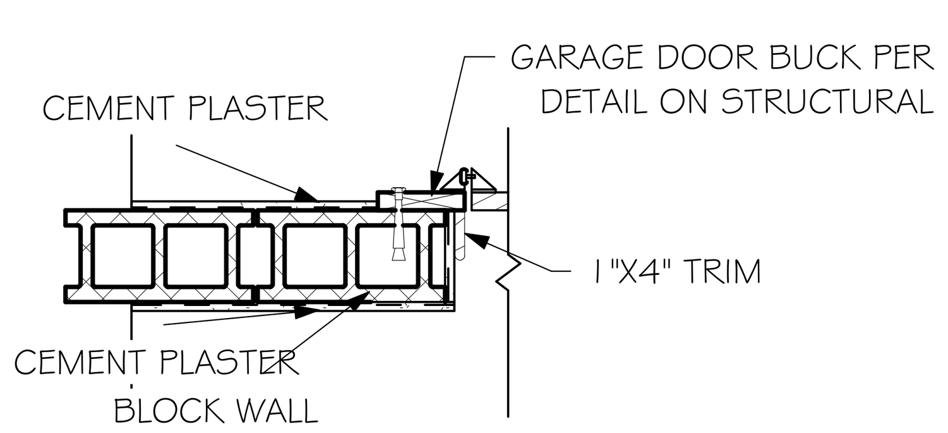
SL. GL. DR. JAM TO BLOCK DETAIL



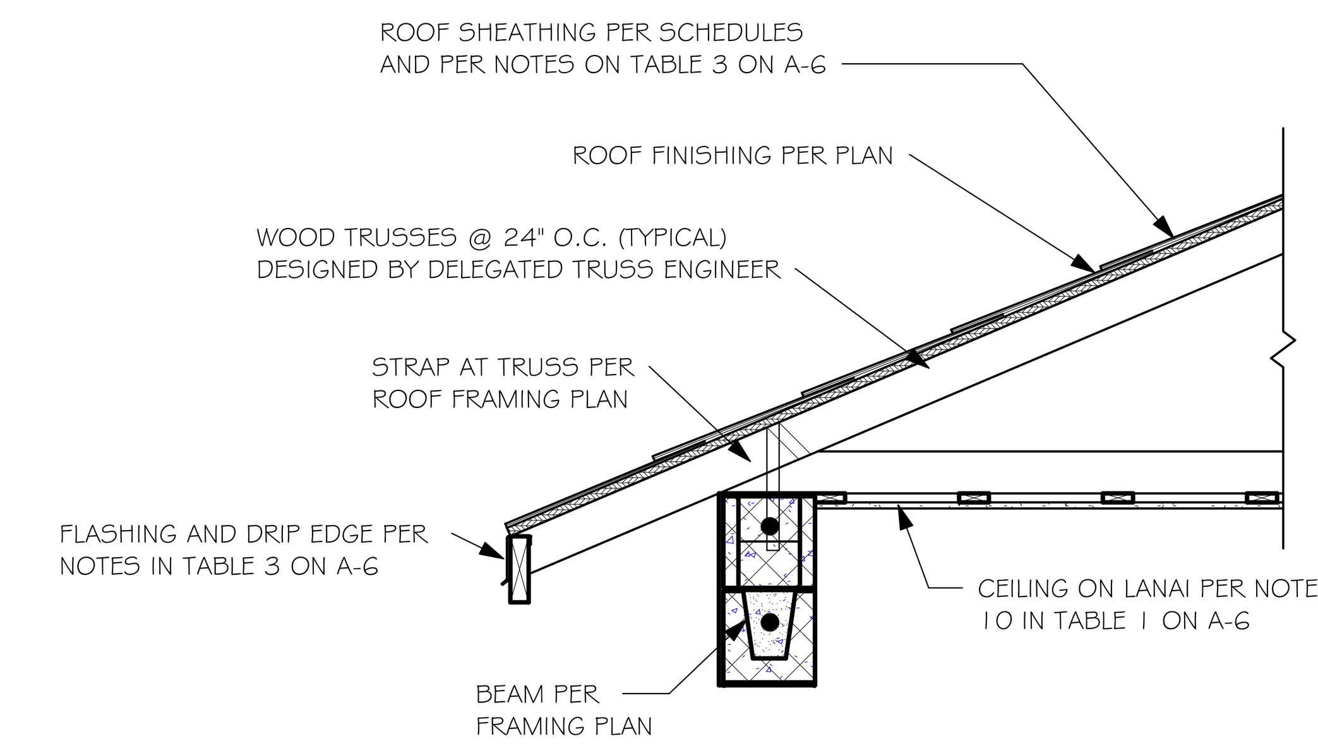
DOOR JAM TO BLOCK DETAIL



WINDOW JAM TO BLOCK DETAIL

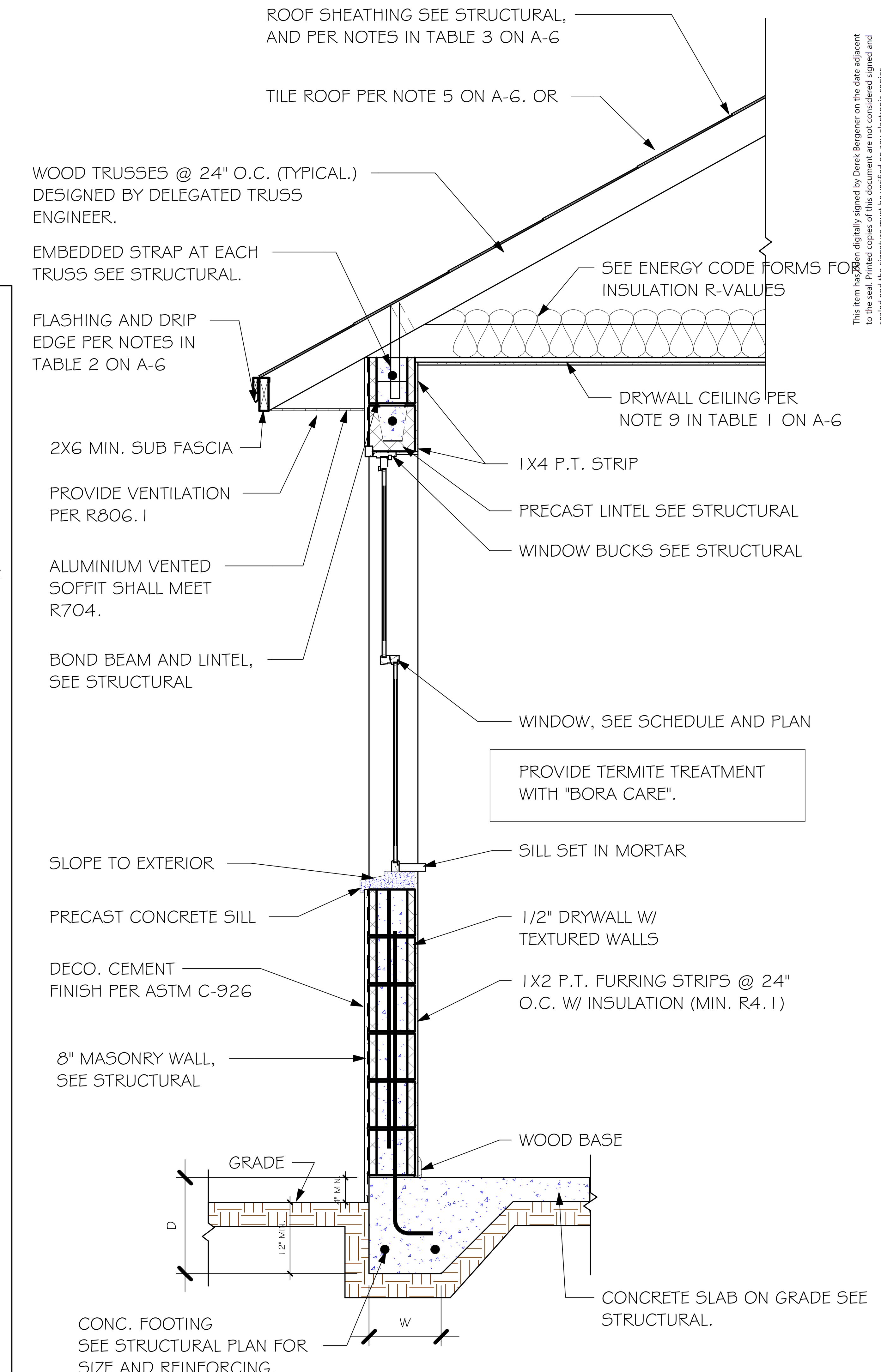


GARAGE DOOR JAM DETAIL



LANAI/ ENTRY ROOF ASSEMBLY

3/4" = 1'-0"



TYPICAL WALL SECTION

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2020 - 7TH EDITION

D.R. HORTON America's Builder

Gulf Coast Drafting & Design, Inc.
EMAIL: PLANS@GULFCOASTDRAFTING.COM
PHONE: 239-540-1822
1515 SE 47TH ST. CAPE CORAL, FL 33904

This item has been digitally signed by Derek Bergener on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

This signature and seal is for work performed by the Structural Engineer of Record (SER) related to Structural Engineering only. No work was performed by the SER in other disciplines such as architectural, mechanical, plumbing, electrical, fire, life safety, accessibility, energy, site work, civil, or geotechnical.

STRUCTURAL ENGINEERING
STRUCTURAL SYSTEMS OF NORTH FLORIDA
1634 S.E. 47th ST SUITE #3 CAPE CORAL, FL 33904
(239) 549-4554
CA# 8829

This is a multi-page document. I performed structural engineering only on those pages which contain my seal, Derek Bergener, and company name Structural Systems.

DEREK W. BERGENER LICENSE No. 58552 STATE OF FLORIDA PROFESSIONAL ENGINEER

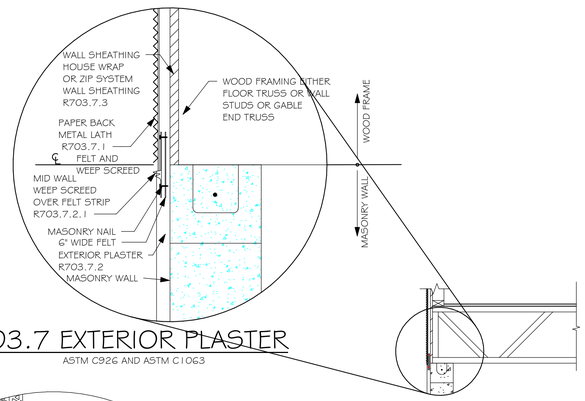
LOT: 126, 127
SUBDIVISION: PALENCIA TVs
ADDRS: 245, 249 IBIZA LOOP
D.R.H. #: 579820203, 204

MODEL 1503
VILLA F
GCD JOB # 13910

DATE:	11/19/21
DRAWN BY:	CWL
CHECKED BY:	JWC
REVISED:	
PLAN:	SECTIONS
SCALE:	As indicated

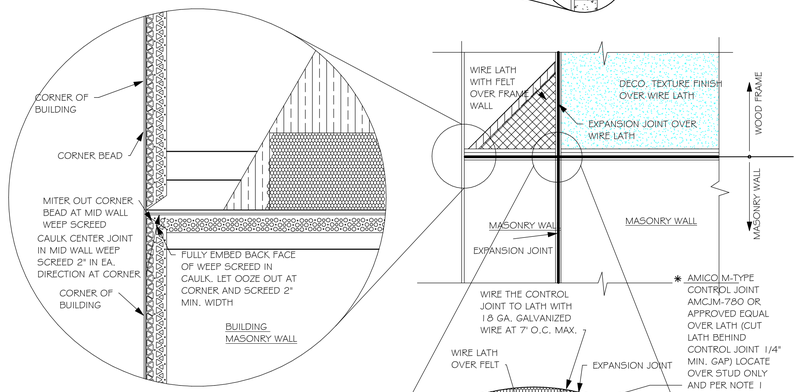
A-6

Y:\O-New Data\1-MASTER 2019\2019-BUILDERS\DR HORTON 2019\SUBDIVISIONS\PALENCIA TVs\13910 LOT 126-127 1503 F\REV\13910 1503 F.rvt

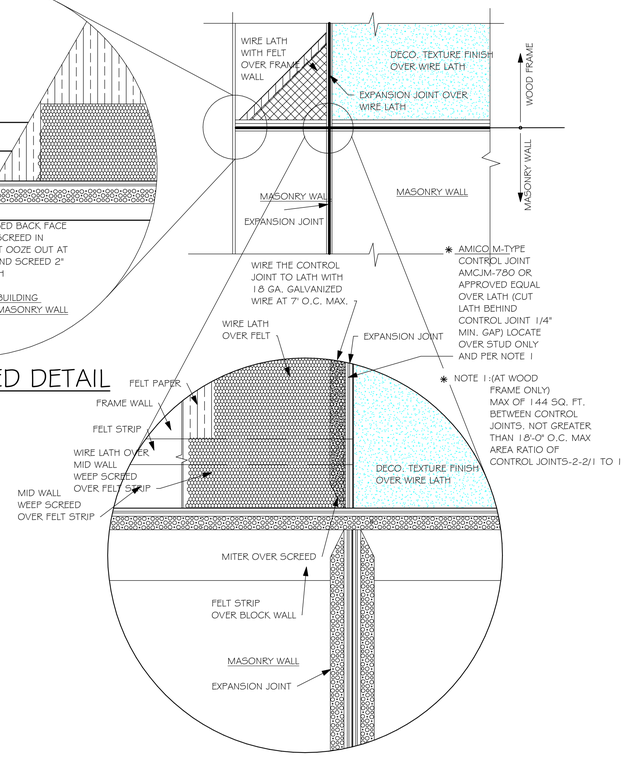


R703.7 EXTERIOR PLASTER

ASTM C926 AND ASTM C1063

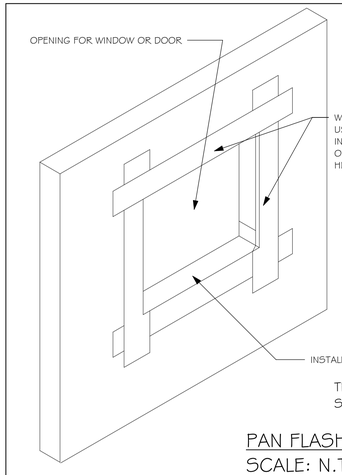


MID WALL WEEP SCREED DETAIL



WEEP SCREED DETAIL

INSTALL AT ALL EXTERIOR WALL LOCATIONS WHERE
WOOD STUD FRAMING IS ABOVE MASONRY WALLS.



R703.4 - WHERE FLASHING INSTRUCTIONS OR DETAILS ARE NOT PROVIDED BY THE WINDOW OR DOOR MANUFACTURER OR BY THE FLASHING MANUFACTURER, "PAN FLASHING" SHALL BE INSTALLED AT THE SILL OF EXTERIOR WINDOW AND DOOR OPENINGS. PAN FLASHING SHALL BE SEALED OR SLOPED IN SUCH A MANNER AS TO DIRECT WATER TO THE SURFACE OF THE EXTERIOR WALL FINISH OR TO THE WATER-RESISTIVE BARRIER FOR SUBSEQUENT DRAINAGE. OPENINGS USING PAN FLASHING SHALL INCORPORATE FLASHING OF PROTECTION AT THE HEAD AND SIDES.

"PAN FLASHING" IS A GENERIC TERM THAT USED TO REFER TO "METAL PAN FLASHING", HOWEVER MANY MODERN MATERIALS HAVE BEEN DEVELOPED FOR THE SAME FUNCTION SUCH AS:
- FLEXIBLE PEEL AND STICK FLASHING MEMBRANE
-FLUID APPLIED FLASHING
FOR SUCH PRODUCTS FOLLOW THE MANUFACTURER'S INSTALLATION REQUIREMENTS

FOR IN-DEPTH FLASHING INSTRUCTIONS, REFER TO THE FOLLOWING PUBLICATIONS:
FMA/AAMA 100
FMA/AAMA 200
FMA/WDMA 250
FMA/AAMA/WDMA 300

THE FLASHING INSTRUCTIONS FROM THE WINDOW/ DOOR MFR., OR THE FLASHING MFR., SHALL SUPERCEDE THIS DETAIL

PAN FLASHING PER R703.4

SCALE: N.T.S.

DESIGN IN ACCORDANCE WITH THE RESIDENTIAL FLORIDA BUILDING CODE 2020 - 7TH EDITION

D·R·HORTON® DHI NYSE
America's Builder

Gulf Coast Drafting & Design, Inc.
EMAIL: PLANS@GULFCOASTDRAFTING.COM
PHONE: 239-540-1822
1515 SE 47TH ST. CAPE CORAL, FL 33904

LOT: 126, 127
SUBDIVISION: PALENCIA TVs
ADDRS: 245, 249 IBIZA LOOP
D.R.H. #: 579820203, 204

MODEL 1503
VILLA F

GCD JOB # 13910

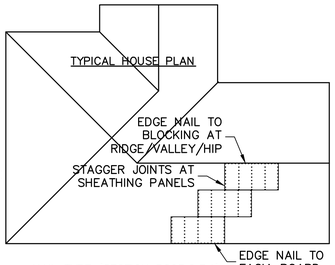
DATE: 11/19/21
DRAWN BY: CWL
CHECKED BY: JWC
REVISED:
PLAN: INTERIOR WALL SECTIONS
SCALE: As indicated

A-7

Y:\10-New Data\1-MASTER 2019\2019-BUILDERS\DR HORTON 2019\SUBDIVISIONS\PALENCIA TVs\13910 LOT 126-127 1503 F\REVIT\13910 1503 F.rvt

TABLE R803.2.3.1 – NAIL SPACING BASED ON SPECIFIC GRAVITY OF RAFTER/TRUSS: ALL TRUSS TOP CHORDS AND FIELD ROOF FRAMING SHALL BE SOUTHERN PINE, SPECIFIC GRAVITY=0.55 (EXCEEDS SG=0.42 AND 0.49 OF TABLE R803.2.3.1).

ENSURE THAT ALL NAILS PENETRATE THE TOP CHORD OF THE TRUSS WITHOUT SPLITTING.



NAIL SPACING (TABLE R803.2.3.1) WIND SPEED / EXPOSURE

160/B, 160/C, 170/B	170/C
NAIL SPACING: 6" O.C. EDGE 6" O.C. FIELD	NAIL SPACING: 4" O.C. EDGE 4" O.C. FIELD

NAIL TYPE (SECTION R803.2.3.1) 19/32 SHEATHING

2½" x 0.131" RING SHANK OR 3" x 0.120" RING SHANK (PER ASTM F1667 RSRS–03 & 04)

1 NAILING OF ROOF SHEATHING
SCALE: NTS

SHEATHING SCHEDULE

EXTERIOR STUD WALL	FLOOR
7/16" ZIP SYSTEM WALL SHEATHING BY HUBER ENGINEERED WOODS LLC, NAILED W/ 8d COMMON WIRE @ 6" O.C. EDGE AND 6" O.C. FIELD. PROVIDE 2x4 BLOCKING AT ALL JOINTS. INSTALL SHEATHING AND SEAM TAPE IN STRICT ACCORDANCE WITH MFR. WRITTEN INSTRUCTIONS.	N/A
ROOF – PER FBCR TABLE 803.2.2	EXTERIOR CEILING
19/32 CLASS A.P.A. RATED SHEATHING, EXPOSURE 1, SPAN RATING 40/20. FASTEN WITH RING SHANK NAILS PER DETAIL 1/S–3 (WHEN ZIP BRAND ROOF SHEATHING IS USED, H–CLIPS ARE NOT REQUIRED)	1) 1x4 STRIPPING @ 16"OC w/ 2–8d NAILS TO EACH TRUSS, ⅝" EXTERIOR GYPBOARD CEILING, FASTEN w/8d NAILS OR 1⅝" DRYWALL SCREWS @ 6"OC EDGE & FIELD. 2) ⅜" BC PLYWOOD NAILED w/ 6d COMMON @ 6" OC EDGE & FIELD.
	SOFFIT
	ALUMINUM PERFORATED SOFFIT INSTALLED PER MANUFACTURER INSTRUCTIONS TO MEET WIND PRESSURES PER R704.

NOTE: EXTERIOR CEILINGS SPECIFIED ABOVE MEET THE DESIGN WIND PRESSURES PER R703.1.2

2

WINDOW/DOOR/SOFFIT DESIGN WIND PRESSURES

WIND PRESSURES PER ASCE7–16, 160 MPH, EXPOSURE C, AND CONVERTED TO ALLOWABLE STRESS DESIGN PRESSURES USING 0.6W LOAD FACTOR. (Vasd=124 MPH, RISK CAT II, ENCLOSED, kd=0.85, h=15')

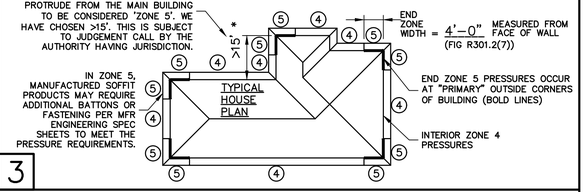
TYPE	INTERIOR ZONE 4	END ZONE 5
SOFFIT (10 SQ. FT.)	+33.5 –36.3	+33.5 –44.8
WINDOWS & DOORS (10 SQ. FT.)	+33.5 –36.3	+33.5 –44.8
8' OR 9' GARAGE DOORS	+29.4 –33.3	
16' OR 18' GARAGE DOORS	+28.2 –31.5	

(SEE PLAN FOR OTHER SPECIFIC PRESSURES)

1) TABLE MAY BE USED FOR ANY SIZE WINDOW OR DOOR IN EACH TYPE.
2) USE "INTERIOR ZONE 4" PRESSURES UNLESS WINDOW OR DOOR IS LOCATED WITHIN THE "END ZONE 5" (SEE DIAGRAM BELOW), THEN USE THE HIGHER PRESSURES UNDER THE "END ZONE 5" COLUMN.
3) ALL GLASS / GLAZING SHALL BE IMPACT RATED OR USE IMPACT RATED SHUTTERS.
4) SUBMIT PRODUCT APPROVALS TO THE BUILDING DEPARTMENT AS REQUIRED BY THE LOCAL JURISDICTION.
5) MANUFACTURED SOFFIT PRODUCTS SHALL BE INSTALLED PER MFR ENGINEERING SPEC SHEETS.

* ON IRREGULAR SHAPED BUILDINGS, THERE IS NO GUIDANCE IN THE CODE FOR HOW FAR A CORNER MUST PROTRUDE FROM THE MAIN BUILDING TO BE CONSIDERED 'ZONE 5'. WE HAVE CHOSEN >15'. THIS IS SUBJECT TO JUDGEMENT CALL BY THE AUTHORITY HAVING JURISDICTION.

IN ZONE 5, MANUFACTURED SOFFIT PRODUCTS MAY REQUIRE ADDITIONAL BATTONS OR FASTENING PER MFR ENGINEERING SPEC SHEETS TO MEET THE PRESSURE REQUIREMENTS.



3

DESIGN CRITERIA:

DESIGN IN ACCORDANCE WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE 7th EDITION (2020) RESIDENTIAL

1. FLOOR & ROOF UNIFORM LOADS:
   ELEVATED FLOORS: LIVE LOAD 40 PSF, DEAD LOAD 20 PSF
   ROOF: LIVE TOP CHORD 20 PSF
   LIVE BOTTOM CHORD 10 PSF (NON–CONCURRENT w/ TCLL)
   CEMENT ROOF TILE DEAD LOAD 25 PSF TOTAL
   SHINGLE/METAL ROOFING DEAD LOAD 15 PSF TOTAL
   MINIMUM DEAD LOAD FOR WIND: TC 5 PSF, BC 5 PSF
   DEFLECTION CRITERIA:
   FLOOR L/480 LIVE, L/360 TOTAL
   ROOF L/240 LIVE, L/180 TOTAL

2. WIND LOADS:
   WIND DESIGN PER, ASCE7–16
   BASIC WIND SPEED (ASCE7–16) 160 MPH
   NOMINAL WIND SPEED (Vasd TABLE R301.2.1.3) 124 MPH
   BUILDING CATEGORY II
   IMPORTANCE FACTOR 1.00
   EXPOSURE C
   MEAN ROOF HEIGHT = 15 FT
   ROOF PITCH 5/12
   ENCLOSURE CLASS. ENCLOSED
   INTERNAL PRES. COEFF. +/– 0.18
   WINDOW/DOOR DESIGN WIND PRESSURE PER TABLE R301.2(2), R301.2(3) AND R301.2(4), SEE DETAIL ON S–3.
   SOFFITS – PER R704, ALL SOFFITS & THEIR ATTACHMENTS SHALL BE CAPABLE OF RESISTING THE DESIGN PRESSURES SPECIFIED IN TABLE R301.2(2) FOR WALLS USING 10 SQ. FT.

3. REINFORCED CONCRETE:
   DESIGN AS PER ACI 318–14
   REQUIRED COMPRESSIVE STRENGTH AT 28 DAYS:
   SLAB ON GRADE f'c = 2500 PSI
   3½" MINIMUM THICKNESS REINFORCED WITH 6x6 w1.4xw1.4 WWF OR FIBERMESH.
   CONVENTIONAL SHALLOW FOOTINGS f'c = 2500 PSI
   BEAMS AND COLUMNS f'c = 3000 PSI
   ALL OTHER CONCRETE (U.N.O.) f'c = 3000 PSI
   UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS:
   FOOTINGS 3"
   SLAB ON GRADE CENTERED
   BEAMS 1½"
   COLUMNS 1½"
   ALL REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAMS AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. ALL REINFORCING STEEL SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF CONCRETE.
   REINFORCING STEEL – ASTM A615 GRADE 40 FOR #3 GRADE 60 FOR #4 TO #11
   WELDED WIRE FABRIC – ASTM A185
   SPLICES IN REINFORCING, SHALL BE 40 BAR DIAMETERS. NON–CONTACT LAP SPLICES MAY BE USED PROVIDED REINFORCING IS NOT SPACED MORE THAN 5" APART FOR #5 BARS.
   FORMWORK AND SHORING SHALL REMAIN IN PLACE UNTIL CONCRETE HAS REACHED AT LEAST 2/3 OF THE REQUIRED 28 DAY STRENGTH.

4. REINFORCED MASONRY:
   DESIGN PER TMS 402/602–16
   REQUIRED COMPRESSIVE STRENGTHS:
   MASONRY WALLS f'm = 1500 PSI
   REINFORCING STEEL – ASTM A615 GRADE 60.
   SPLICES IN REINFORCING, SHALL BE 48 BAR DIAMETERS.
   ALL CONCRETE MASONRY UNITS SHALL BE COMPOSED OF ASTM C90, GRADE N–1 HOLLOW CONCRETE MASONRY UNITS WITH TYPE 'S' MORTAR. GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT WITH 3000 PSI PEA ROCK CONCRETE GROUT. ALL CELLS BELOW FINISHED GRADE SHALL BE GROUTED SOLID. ALL EXTERIOR WALLS SHALL BE REINFORCED FULL HEIGHT AT DOT LOCATIONS ON PLAN.

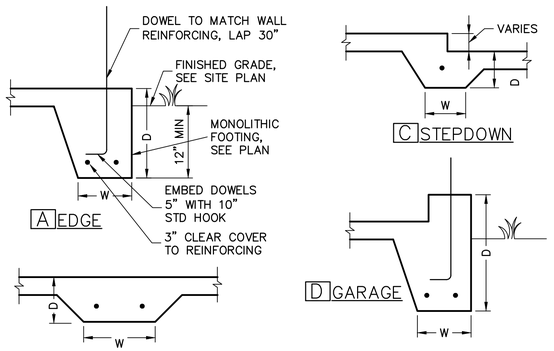
5. DELEGATED–ENGINEERED WOOD ROOF TRUSSES:
   ALL WOOD ROOF TRUSSES SHALL BE DESIGNED BY A DELEGATED TRUSS ENGINEER PER RULE 61G15–31.003 OF THE FLORIDA ADMINISTRATIVE CODE. ALL TRUSSES SHALL HAVE TEMPORARY BRACING PER "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB–91." FOR OTHER BRACING REQUIREMENTS, NOTIFY ENGINEER. PROVIDE PERMANENT BRACING PER TRUSS MFR. SHOP DRAWINGS. IF PERMANENT BRACING IS NOT SPECIFIED, CONTACT ENGINEER.

6. FOUNDATION:
   CONVENTIONAL SHALLOW CONCRETE FOOTINGS
   SOIL BEARING CAPACITY 2000 PSF
   THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL CONDITIONS FOR THE INTENDED STRUCTURE AND ASSUMED SOIL BEARING CAPACITY. IT IS RECOMMENDED THAT A GEOTECHNICAL FIRM BE HIRED TO PERFORM A SITE EVALUATION.

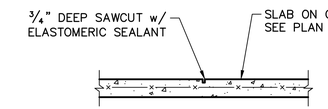
7. DIMENSIONS: VERIFY ALL DIMENSIONS WITH HOUSE PLANS. SEE HOUSE PLANS, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR EMBEDS, OPENINGS, SLEEVES, ETC. WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS.

8. MEANS AND METHODS: THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, OR SEQUENCES TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO SUPPORT STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, OR ANY OTHER PERSONS PERFORMING THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CONSTRUCT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

9. SHOP DRAWINGS: SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ENGINEER FOR REVIEW FOR ALL STRUCTURAL ELEMENTS UTILIZING PREFABRICATED COMPONENTS. ONE SET OF SIGNED & SEALED TRUSS ENGINEERING SHALL BE DELIVERED TO THE ENGINEER OF RECORD FOR THE STRUCTURE PER FLORIDA ADMINISTRATIVE CODE 61G15–30.005 AND 61G15–31.003.

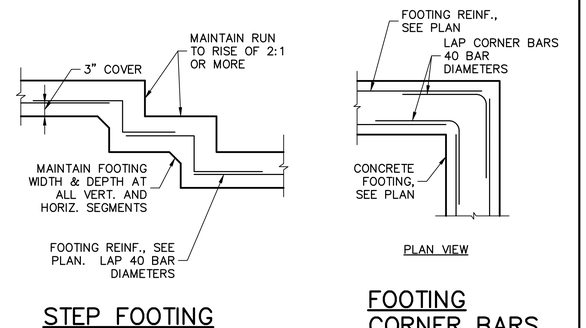


4 MONOLITHIC FOOTINGS
SCALE: 3/4" = 1'–0"



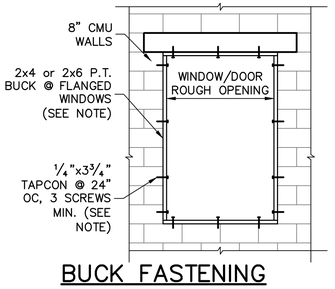
NOTES:
1) PROVIDE SAWCUTS TO CREATE APPROXIMATE 20' X 20' MAXIMUM SQUARES.
2) SAWCUT CONCRETE SLAB WITHIN 4 TO 12 HOURS OF CONCRETE PLACEMENT.

5 SLAB SAWCUT DETAIL
SCALE: NTS

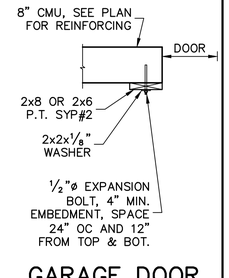


6 STEP FOOTING
SCALE: NTS

FOOTING CORNER BARS
SCALE: NTS



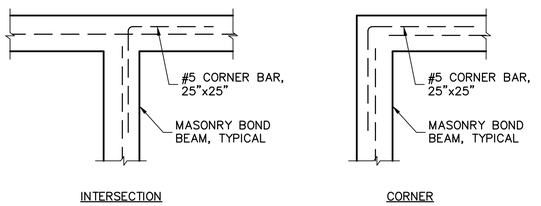
BUCK FASTENING



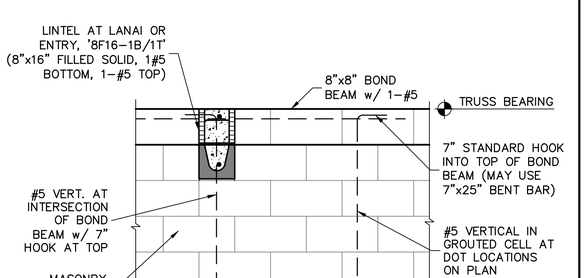
GARAGE DOOR

NOTE: THIS BUCK FASTENING DETAIL IS INTENDED FOR FLANGED WINDOW/DOOR PRODUCTS THAT FASTEN THRU THE FLANGE WITH WOOD SCREWS TO THE BUCK. FOR WINDOW/DOOR PRODUCTS THAT DO NOT HAVE A FLANGE AND FASTEN INSTEAD OUTWARD THRU THE FRAME, USE MASONRY SCREWS PER MFR. THAT ARE LONG ENOUGH TO PENETRATE 2–1/4" INTO THE MASONRY. IN THIS CASE, THE BUCK MATERIAL IS SIMPLY A SPACER AND MAY BE 1x4 OR 1x6 OR OMITTED ENTIRELY AND THE SPACER MAY BE TACKED IN PLACE WITH MASONRY NAILS OR PINS.

7



8 CORNER BAR DETAIL IN BOND BEAMS
SCALE: 3/4" = 1'–0"



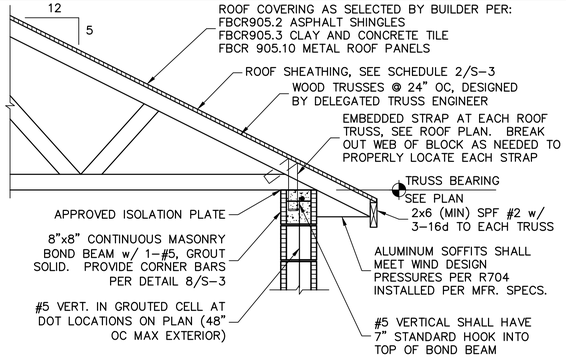
9 BOND BEAM REINFORCING DETAIL
SCALE: 3/4" = 1'–0"

RETROFIT STRAPS TO CONCRETE/MASONRY

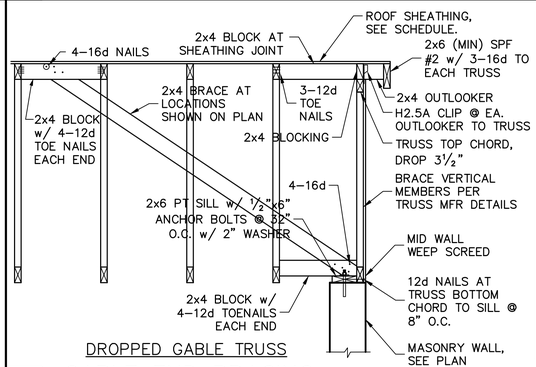
TRUSS UPLIFT (LBS) @ 24" OC	CONNECTOR	
TO 840	1–MTSM16 or 20	7–10dx1½", 4–¼x2¼ TITEN
TO 1045	1–HTSM16 or 20	8–10dx1½", 4–¼x2¼ TITEN
TO 2090	2–HTSM16 or 20	8–10dx1½", 4–¼x2¼ TITEN
TO 4300	2–LGT2	16–16d, 7–¼"x2¼" TITEN
TO 3480	HTT16	18–16d, ⅝"ø ALLTHREAD, DRILL & EPOXY 10" EMBED w/ SIMPSON SET.
TO 10530	HGT–2/3	TWO ¾"ø ALTHREAD, DRILL & EPOXY 12" EMBED WITH SIMPSON SET.

NOTES:
1) WHERE EMBEDDED STRAP IS MISSING OR MIS–LOCATED, PROVIDE A STRAP FROM THE ABOVE LIST AT EACH ROOF TRUSS BEARING POINT, BASED ON THE TRUSS UPLIFT VALUES IN THE SIGNED AND SEALED TRUSS DESIGN PACKAGE.
2) CONNECTORS ARE SIMPSON STRONG TIE. ALL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SIMPSON PRINTED INSTRUCTIONS.

10 RETROFIT UPLIFT CONNECTOR SCHEDULE

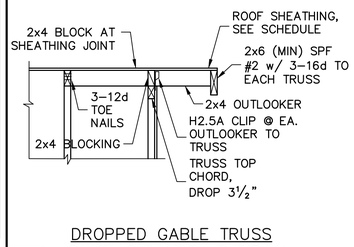


11 TRUSS STRAP TO BOND BEAM
SCALE: 3/4" = 1'–0"



12 GABLE END BRACING
SCALE: N.T.S.

At Exterior Stud Walls and Gable Ends with Wall Sheathing, apply plaster over metal lath over water resistive barrier as follows:
Plaster R703.7.2: 3–coat 7/8" thick portland cement based plaster per ASTM C926.
Metal Lath R703.7.1: Self furring paper backed 2.5lb diamond mesh metal lath per ASTM C847, G60 galvanized, fastened per ASTM C1063 with 1–1/2" long, 11 gage nails with 7/16" head (roofing nails) at 7" oc, or 1–1/2"long, 16 gage staples at 6" oc, into the framing members (ie, the nails or staples must align with and penetrate 3/4" into the framing studs).
Water Resistive Barrier (WRB) R703.7.3: Water–resistive vapor–permeable barrier with a performance at least equivalent to 2 layers of Grade D paper. The individual layers shall be installed independently. An approved house wrap may be used for the 1st layer and metal lath with approved paper backing may be the 2nd layer (Note: ZIP wall sheathing with seam tape qualifies as the first layer).



DROPPED GABLE TRUSS

13 OUTLOOKER DETAIL
SCALE: N.T.S.

REVISIONS	BY

STRUCTURAL ENGINEERING:

STRUCTURAL SYSTEMS OF NORTH FLORIDA
1634 S.E. 47th STREET, SUITE #3
CAPE CORAL, FL 33904
(239) 549–4554
CA# 8829

This item has been digitally signed by Derek Bergener on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

DEREK W. BERGENER LICENSE No. 56552 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGNED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7th EDITION (2020) RESIDENTIAL

BUILDER: D·R HORTON America's Builder

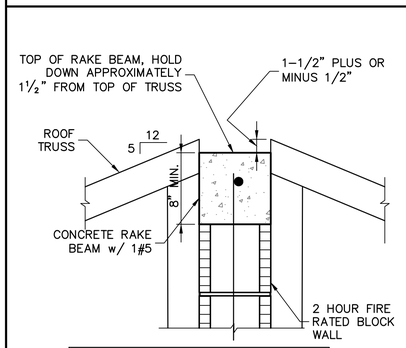
STRUCTURAL DETAILS FOR 1503 SIGNATURE VILLA

245, 249 IBIZA LOOP
VENICE, FLORIDA 34292
LOT: 126–127 SUBDIVISION: PALENCIA

FOR SCOSTA TRUSSES, MODEL 1503 JOB # DR1503–160C, DATED 02/17/21, REVISED: NONE

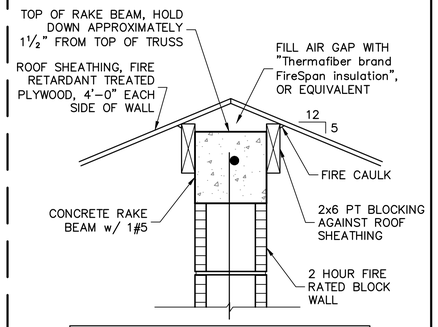
DESIGN/DRAWN	DWB/DWB
CHECKED	DWB
DATE	11/27/21
SCALE	AS NOTED
JOB NO.	DR 13910
SHEET	S–1

SHEET 1 OF 2



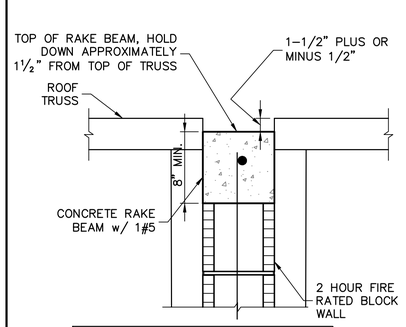
RAKE BEAM AT TOP OF FIREWALL
HOLD DOWN APPROXIMATELY 1½" FROM TOP OF TRUSS

1A TOP OF FIREWALL
SCALE: 1–1/2" = 1'–0"



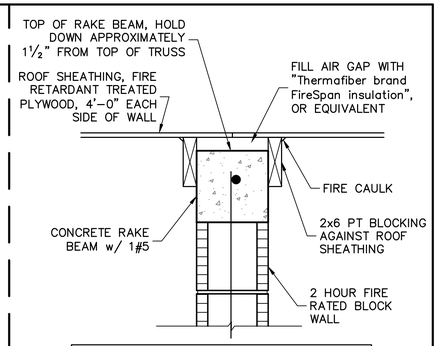
BLOCKING AT UNDERSIDE OF ROOF SHEATHING
FILL AIR GAP WITH THERMAFIBER FIRESPAN INSULATION (OR EQUIVALENT).

1B TOP OF FIREWALL
SCALE: 1–1/2" = 1'–0"



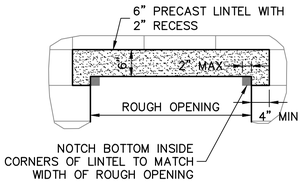
RAKE BEAM AT TOP OF FIREWALL
HOLD DOWN APPROXIMATELY 1½" FROM TOP OF TRUSS

2A TOP OF FIREWALL
SCALE: 1–1/2" = 1'–0"



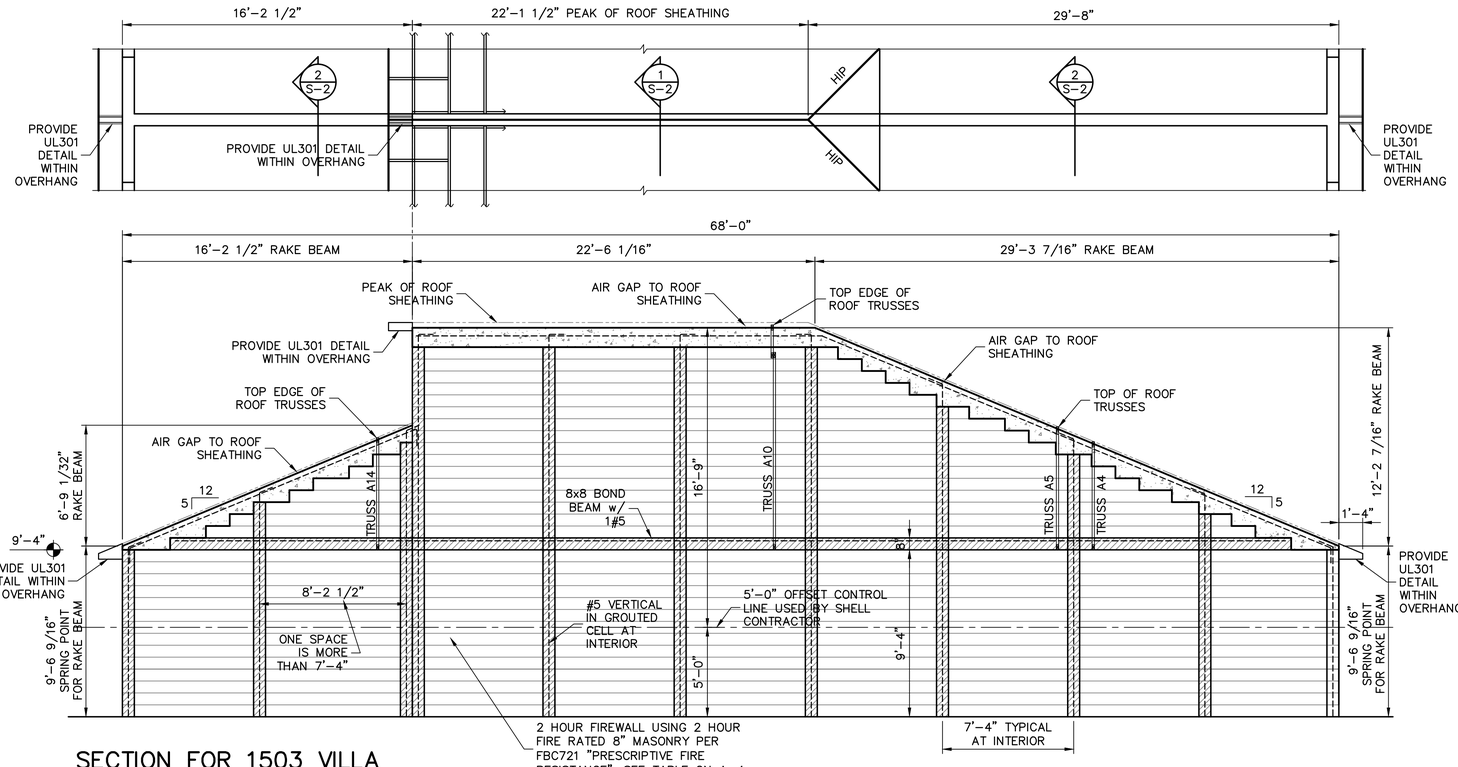
BLOCKING AT UNDERSIDE OF ROOF SHEATHING
FILL AIR GAP WITH THERMAFIBER FIRESPAN INSULATION (OR EQUIVALENT).

2B TOP OF FIREWALL
SCALE: 1–1/2" = 1'–0"

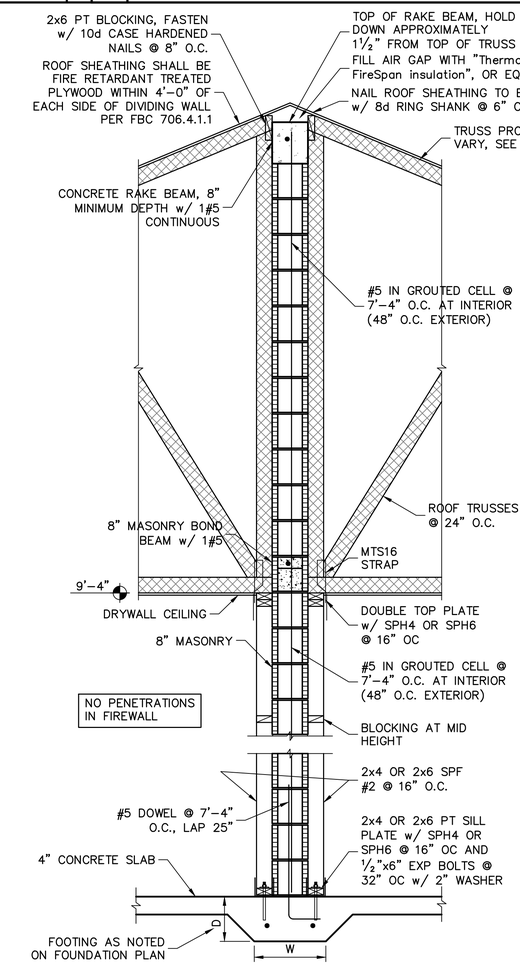


AT EXTERIOR SWING DOORS, A 6" DEEP LINTEL WITH 2" RECESS MAY BE USED IN PLACE OF 8x8 LINTEL. THE BOTTOM INSIDE CORNERS MAY BE NOTCHED UP TO 2" WIDER EACH SIDE TO MATCH THE WIDTH OF THE ROUGH OPENING.

3 6" PRECAST LINTEL WITH 2" RECESS
SCALE: 3/4" = 1'–0"



SECTION FOR 1503 VILLA FOR 5:12 ROOF PITCH
SCALE: 1/4" = 1'–0"



5 2 HOUR FIREWALL AT LIVING AREA
SCALE: 3/4" = 1'–0"

REVISIONS	BY

STRUCTURAL ENGINEERING:
STRUCTURAL SYSTEMS OF NORTH FLORIDA
16A S.E. 47th STREET, SUITE #A
CAPE CORAL, FL 33904
(239) 549–4554
CA# 8829

DEREK W. BERGEMER LICENSE No. 58552 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGNED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7th EDITION (2020) RESIDENTIAL

BUILDER:

D·R HORTON America's Builder

STRUCTURAL DETAILS FOR 1503 SIGNATURE VILLA

245, 249 IBIZA LOOP
VENICE, FLORIDA 34292
LOT: 126–127 SUBDIVISION: PALENCIA

FOR SCOSTA TRUSSES, MODEL 1503 JOB # DR1503–160C, DATED 02/17/21, REVISED: NONE

DESIGN/DRAWN	DWB/DWB
CHECKED	DWB
DATE	11/27/21
SCALE	AS NOTED
JOB NO.	DR 13910
SHEET	S–2

SHEET 2 OF 2

SCOSTA CORPORATION

3670 Commerce Center Drive Sebring, FL 33870
(863)385-8242 Voice
(863)385-8724 Fax
Plans@scostacorp.com

Engineering Cover Sheet

Job #: DR1503-160C

Date: 2/17/2021 4:16:45 PM

Job Information:

Contractor:
D.R. HORTON

Job Name:
1503 F TWIN VILLA

Address:
**

Truss designs meet the criteria of FBC 7th Ed. 2020 Res.

Gravity - Roof (psf): TC LL 20 TC DL 20 BC DL 10 BC LL 0 Total: 50

Wind: ASCE 7-16 160 MPH Exposure: C - Closed Risk Category: Residential - CAT II

DL TO RESIST WIND TC 4.00 BC 6.00

Gravity - Floor (psf): TC LL 0 TC DL 0 BC DL 0 BC LL 0 Total: 0

The following truss designs have been prepared with Alpine/ITW proprietary software, and reviewed by Richard A. Siver P.E. Florida Registered Engineer # 65698. This cover sheet is sealed in lieu of each individual sheet in accordance with 61G15-31.003, FAC Standard detail sheets and or sealed engineering sheets by Alpine/ITW are added to those listed below. The details are believed to be correct to the best of this engineer's knowledge, and the accuracy of the information provided by others cannot be guaranteed. Note the seal on this index sheet indicates acceptance of professional engineering responsibility as the truss design engineer solely for the Truss Design Drawings listed below. The suitability and use of each component for any particular building is the responsibility of the Building Designer, per ANSI/TPI 1 Section 2.

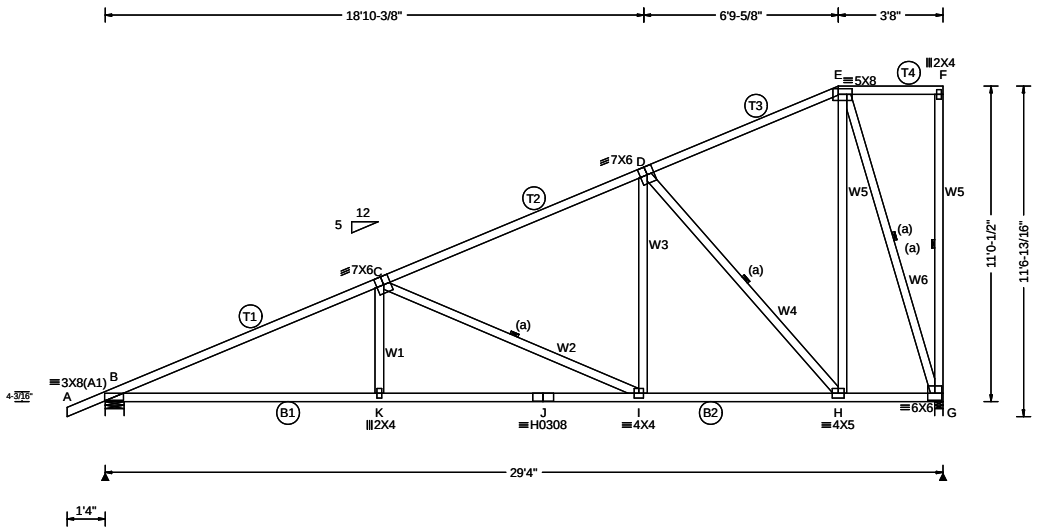
The Identity of the structural Engineer of Record has not been provided as of the seal date.

Order	ID	Date	Order	ID	Date
1	A10	2/17/2021	21	EJ8	2/17/2021
2	A11	2/17/2021	22	J6	2/17/2021
3	A12	2/17/2021	23	J4	2/17/2021
4	A13	2/17/2021	24	J2	2/17/2021
5	A14	2/17/2021	25	EJ2	2/17/2021
6	A15	2/17/2021	26	V4	2/17/2021
7	A16	2/17/2021	27	V3	2/17/2021
8	A9	2/17/2021	28	V2	2/17/2021
9	A8	2/17/2021	29	V1	2/17/2021
10	A7	2/17/2021	30	PB2	2/17/2021
11	A6	2/17/2021	31	PB1	2/17/2021
12	A5	2/17/2021	32	PB3	2/17/2021
13	A4	2/17/2021			
14	A3	2/17/2021			
15	A2	2/17/2021			
16	A1	2/17/2021			
17	A17	2/17/2021			
18	A18	2/17/2021			
19	A19	2/17/2021			
20	CJ11	2/17/2021			

This item has been digitally signed by Richard A. Siver on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

If a digital seal is affixed to this document, printed copies without original signature must be verified using the original electronic version

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A10	Ply: 1 Qty: 18 Wgt: 187.6 lbs	SEQN: 29859 / T8 / HIPM FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)

TCLL:	20.00
TCDL:	20.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	50.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.092	K	999	360
VERT(TL): 0.221	K	999	240
HORZ(LL): 0.033	G	-	-
HORZ(TL): 0.078	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.952
Max BC CSI: 0.854
Max Web CSI: 0.877
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1673	/-	/-	/1243	/225	/434
G	1597	/-	/-	/1115	/398	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
G Brg Width = 3.5 Min Req = 1.9
Bearings B & G are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	D - E	179	-668
B - C	733	-2997	E - F	0	0
C - D	403	-1738			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2645	-1153	I - H	1438	-624
K - J	2640	-1155	H - G	490	-224
J - I	2640	-1155			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - C	409	0	E - H	1280	-402
C - I	587	-1294	E - G	692	-1518
I - D	799	-140	F - G	176	-152
D - H	618	-1462			

Lumber

Top chord: 2x4 SP M-31; T3,T4 2x4 SP #2;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of structural panels or rigid ceiling provide lateral bracing to brace all flat TC @ 48" oc, all BC @ 24" oc.

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER
P.E.
#65698

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

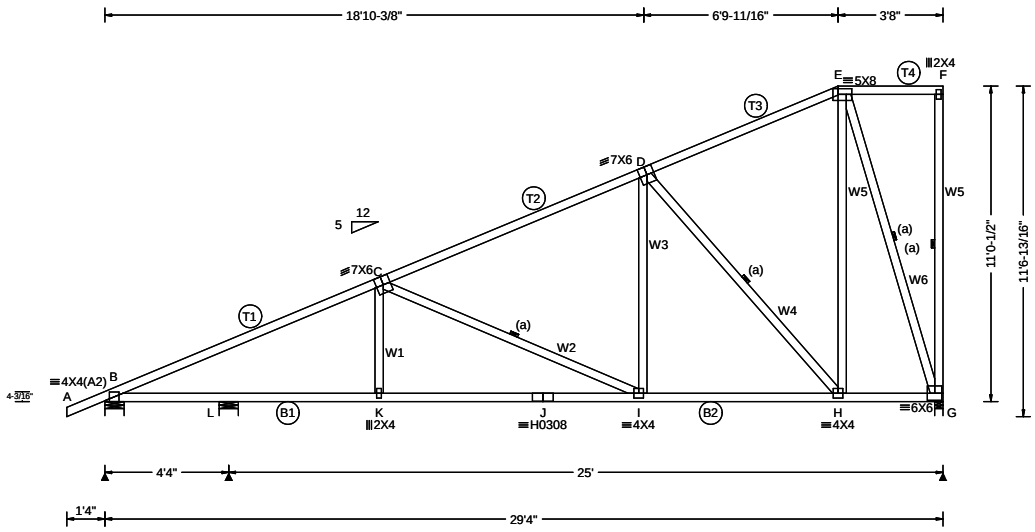
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise,top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. **A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.**

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SCOSTA CORPORATION
WOOD, STEEL OR TIMBER
ROOF OR FLOOR TRUSSES
3670 COMMERCE CENTER DRIVE
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A11	Ply: 1 Qty: 6 Wgt: 187.6 lbs	SEQN: 29860 / T36 / HIPM FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)
TCLL: 20.00
TCDL: 20.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 50.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: > 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.087	C	999	360
VERT(TL): 0.209	K	999	240
HORZ(LL): 0.028	G	-	-
HORZ(TL): 0.067	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.492
Max BC CSI: 0.404
Max Web CSI: 0.853
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1471	/-	/-	/1084	/206	/434
L	245	/-	/-	/186	/21	/-
G	1563	/-	/-	/1088	/395	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
L Brg Width = 8.0 Min Req = 1.5
G Brg Width = 3.5 Min Req = 1.5
Bearings B, L, & G are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	D - E	176	-654
B - C	680	-2771	E - F	0	0
C - D	392	-1694			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	4858	-2203	I - H	1402	-616
K - J	2427	-1104	H - G	477	-221
J - I	2427	-1104			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - C	276	0	E - H	1238	-393
C - I	541	-1101	E - G	683	-1476
I - D	753	-128	F - G	176	-152
D - H	609	-1427			

Lumber

Top chord: 2x4 SP M-31; T4 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of structural panels or rigid ceiling provide lateral bracing to brace all flat TC @ 48" oc, all BC @ 24" oc.

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER
P.E.
#65698

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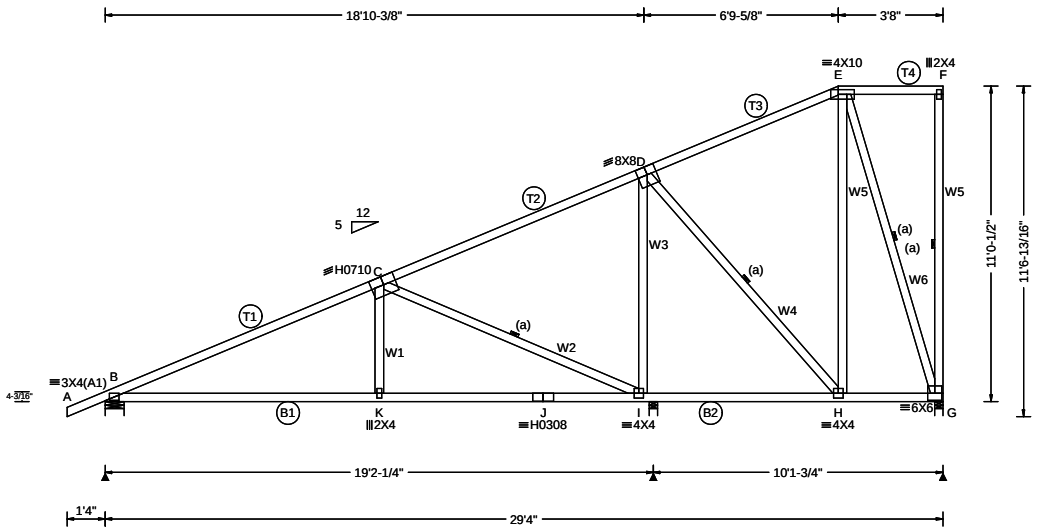
Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A12	Ply: 1 Qty: 2 Wgt: 187.6 lbs	SEQN: 29861 / T9 / HIPM FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00 TCDL: 20.00 BCLL: 0.00 BCDL: 10.00 Des Ld: 50.00 NCBCLL: 10.00 Soffit: 0.00 Load Duration: 1.25 Spacing: 24.0 "	Wind Std: ASCE 7-16 Speed: 160 mph Enclosure: Closed Risk Category: II EXP: C Mean Height: 15.00 ft TCDL: 4.0 psf BCDL: 6.0 psf MWFRS Parallel Dist: h to 2h C&C Dist a: 3.00 ft Loc. from endwall: not in 9.00 ft GCpi: 0.18 Wind Duration: 1.60	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA **Code / Misc Criteria** Bldg Code: FBC 7th Ed. 2020 Res TPI Std: 2014 Rep Factors Used: Yes FT/RT:20(0)/10(0) Plate Type(s): WAVE, HS	PP Deflection in loc L/defl L/# VERT(LL): 0.046 K 999 360 VERT(TL): 0.110 K 999 240 HORZ(LL): 0.015 G - - HORZ(TL): 0.036 G - - Creep Factor: 2.0 Max TC CSI: 0.956 Max BC CSI: 0.500 Max Web CSI: 0.646 Mfg Specified Camber: VIEW Ver: 20.02.00A.1020.21

Lumber

Top chord: 2x4 SP M-31; T3,T4 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of structural panels or rigid ceiling provide lateral bracing to brace all flat TC @ 48" oc, all BC @ 24" oc.

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1219	/-	/-	/942	/148	/434
I	1305	/-	/0	/867	/220	/0
G	745	/-	/-	/549	/254	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
I Brg Width = 3.5 Min Req = 1.5
G Brg Width = 3.5 Min Req = 1.5
Bearings B, I, & G are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	D - E	71	-340
B - C	365	-1873	E - F	0	0
C - D	10	-542			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	1610	-813	I - H	741	-545
K - J	1604	-815	H - G	187	-124
J - I	1604	-815			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - C	444	0	E - H	334	-70
C - I	613	-1390	E - G	384	-580
I - D	272	-432	F - G	176	-152
D - H	230	-293			

RICHARD A. SIVER
P.E.
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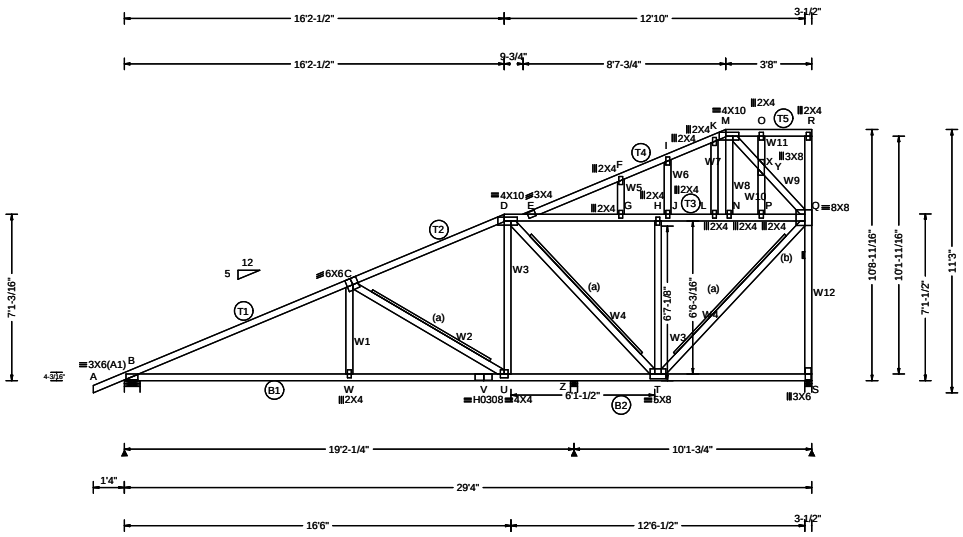
Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A13	Ply: 1 Qty: 2 Wgt: 218.4 lbs	SEQN: 29893 / T13 / SPEC FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 20.00	Speed: 160 mph	Pf: NA Ce: NA	VERT(LL): 0.103 E 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(TL): 0.234 E 978 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.028 S - -
Des Ld: 50.00	EXP: C		HORZ(TL): 0.062 S - -
NCBCLL: 10.00	Mean Height: 15.00 ft	**Code / Misc Criteria**	Creep Factor: 2.0
Soffit: 0.00	TCDL: 4.0 psf	Bldg Code: FBC 7th Ed. 2020/TPI14	Max TC CSI: 0.699
Load Duration: 1.25	BCDL: 6.0 psf	TPI Std: 2014	Max BC CSI: 0.831
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	Rep Factors Used: Yes	Max Web CSI: 0.805
	C&C Dist a: 3.00 ft	FT/RT:20(0)/10(0)	Mfg Specified Camber:
	Loc. from endwall: not in 9.00 ft	Plate Type(s):	
	GCpi: 0.18	WAVE, HS	VIEW Ver: 20.02.00A.1020.21
	Wind Duration: 1.60		

Lumber

Top chord: 2x4 SP #2; T1,T2 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Bracing

(b) Continuous lateral restraint equally spaced on member.

(a) 1x4 #2 SYP,HF,OR SPF "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

▲Maximum Reactions (lbs)

Loc	Gravity R+	/ R-	/ Rh	Non-Gravity / Rw	/ U	/ RL
B	1624	/-	/-	/1179	/224	/416
Z	271	/-	/-	/168	/21	/-
S	1535	/-	/-	/993	/379	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
Z Brg Width = 3.5 Min Req = 1.5
S Brg Width = 3.5 Min Req = 1.8
Bearings B, Z, & S are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	I - K	169	-237
B - C	747	-2854	J - L	339	-946
C - D	524	-1845	K - M	186	-192
D - E	273	-1087	L - N	340	-947
E - F	46	-257	M - O	2	-1
E - G	330	-933	N - P	337	-944
F - I	91	-206	O - R	2	-1
G - H	335	-939	P - Q	337	-944
H - J	335	-939			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - W	2508	-1159	U - T	3180	-1521
W - V	2503	-1161	T - S	1	0
V - U	2503	-1161			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
W - C	397	0	K - L	42	-52
C - U	488	-1093	M - N	100	-101
D - U	599	-142	M - X	248	-240
D - T	397	-731	X - O	133	-114
F - G	153	-184	P - Y	96	-85
H - T	356	-518	Y - Q	272	-259
T - Q	1562	-710	Q - R	118	-101
I - J	195	-294	Q - S	831	-1395

RICHARD A. SIVER
P.E.
#65698

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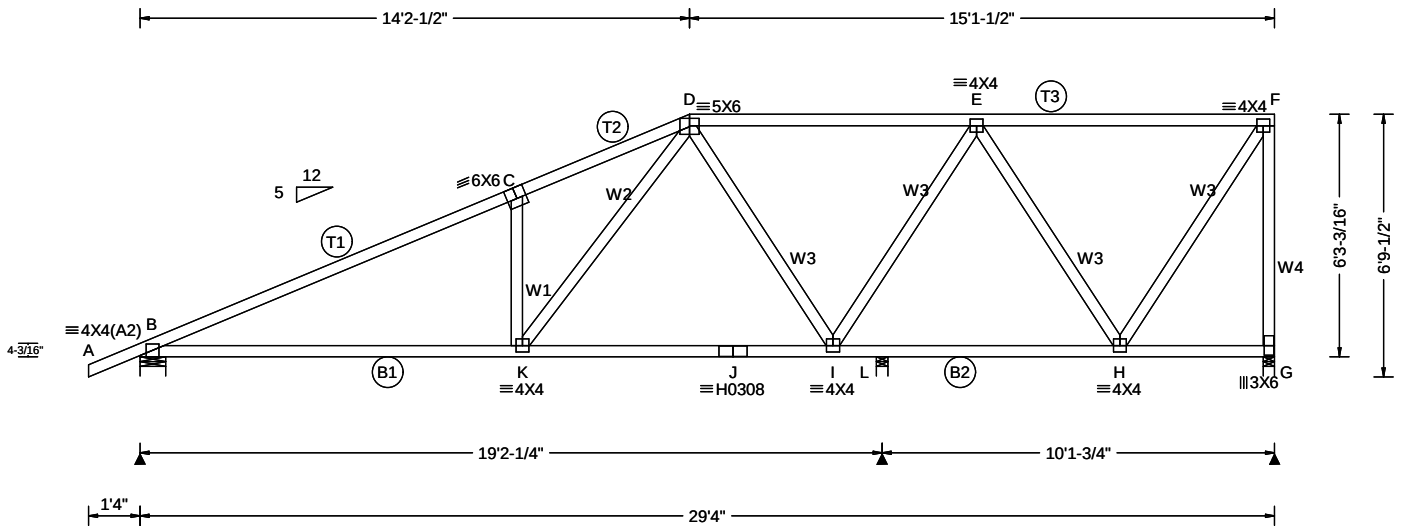
Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A14	Ply: 1 Qty: 2 Wgt: 152.6 lbs	SEQN: 29863 / T20 / HIPM FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)

TCLL:	20.00
TCDL:	20.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	50.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.069	C	999	360
VERT(TL): 0.161	C	999	240
HORZ(LL): 0.021	H	-	-
HORZ(TL): 0.048	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.708
Max BC CSI: 0.517
Max Web CSI: 0.941
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1525	/-	/-	/1082	/300	/247
L	554	/-	/0	/342	/96	/0
G	1267	/-	/-	/739	/400	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
L Brg Width = 3.5 Min Req = 1.5
G Brg Width = 3.5 Min Req = 1.5
Bearings B, L, & G are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	D - E	861	-1309
B - C	1179	-2610	E - F	428	-649
C - D	1344	-2538			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2280	-1315	I - H	2426	-1814
K - J	1553	-1020	H - G	0	0
J - I	1553	-1020			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - K	444	-645	E - H	909	-1069
K - D	1187	-465	H - F	1166	-769
D - I	303	-536	F - G	930	-1219
I - E	310	-27			

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #2;

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER
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#65698

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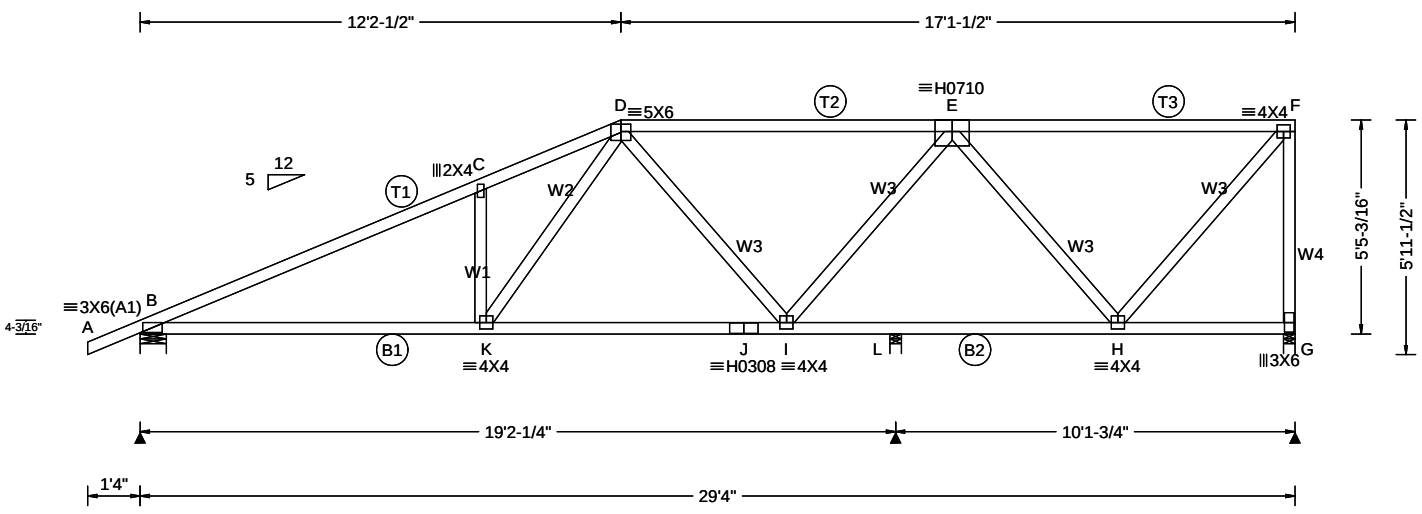
Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A15	Ply: 1 Qty: 2 Wgt: 149.8 lbs	SEQN: 29864 / T12 / HIPM FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)

TCLL:	20.00
TCDL:	20.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	50.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.067	C	999	360
VERT(TL): 0.171	C	999	240
HORZ(LL): 0.022	H	-	-
HORZ(TL): 0.057	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.689
Max BC CSI: 0.398
Max Web CSI: 0.988
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1555	/-	/-	/1123	/352	/214
L	267	/-	/0	/178	/13	/-
G	1350	/-	/-	/828	/461	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
L Brg Width = 3.5 Min Req = 1.5
G Brg Width = 3.5 Min Req = 1.5
Bearings B, L, & G are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	D - E	1306	-1775
B - C	1507	-2755	E - F	652	-884
C - D	1635	-2671			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2427	-1583	I - H	3350	-2730
K - J	1903	-1381	H - G	0	0
J - I	1903	-1381			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - K	350	-523	E - H	1126	-1249
K - D	895	-331	H - F	1342	-990
D - I	121	-315	F - G	1076	-1294
I - E	291	-16			

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #2;

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

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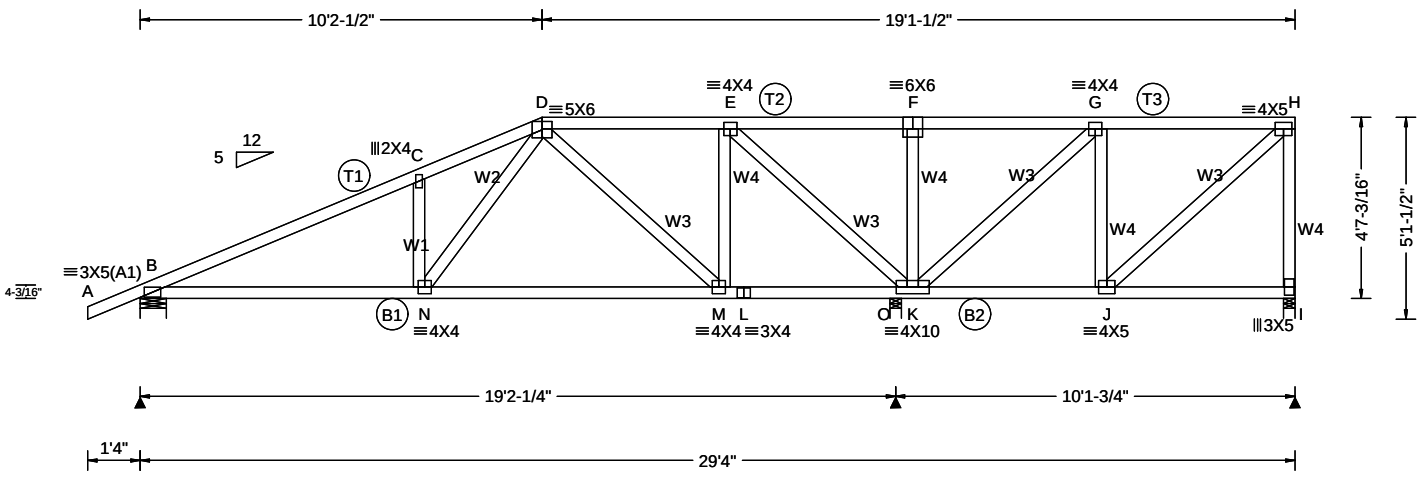
Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A16	Ply: 1 Qty: 2 Wgt: 168.0 lbs	SEQN: 29888 / T27 / HIPM FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)

TCLL:	20.00
TCDL:	20.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	50.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Varies by Load Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.054	C	999	360
VERT(TL): 0.136	C	999	240
HORZ(LL): 0.018	J	-	-
HORZ(TL): 0.045	J	-	-

Creep Factor: 2.0
Max TC CSI: 0.858
Max BC CSI: 0.776
Max Web CSI: 0.801
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1168	/-	/-	/-	/377	/-
O	2523	/-	/0	/-	/721	/0
I	1540	/-	/-	/-	/380	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
O Brg Width = 3.5 Min Req = 1.7
I Brg Width = 3.5 Min Req = 1.5
Bearings B, O, & I are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	- 20	E - F	82	- 446
B - C	588	- 1916	F - G	82	- 446
C - D	558	- 1854	G - H	296	- 1238
D - E	269	- 967			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	1676	- 498	L - K	1915	- 540
N - M	1197	- 365	K - J	1237	- 302
M - L	957	- 270	J - I	0	0

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - N	208	- 450	K - G	320	- 1145
N - D	787	- 209	F - K	232	- 536
D - M	133	- 323	G - J	127	0
M - E	375	0	J - H	1666	- 398
E - K	277	- 870	H - I	357	- 1326

Lumber

Top chord: 2x4 SP #2; T3 2x4 SP M-31;
Bot chord: 2x4 SP #2; B2 2x4 SP M-31;
Webs: 2x4 SP #2;

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 83 plf at -1.33 to 83 plf at 19.63
TC: From 42 plf at 19.63 to 42 plf at 29.33
BC: From 20 plf at 0.00 to 20 plf at 19.73
BC: From 10 plf at 19.73 to 10 plf at 29.33
TC: 174 lb Conc. Load at 19.73,21.73,23.73,25.73 27.73
BC: 336 lb Conc. Load at 19.73,21.73,23.73,25.73 27.73

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER
P.E.
#65698

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SCOSTA CORPORATION
WOOD, STEEL OR TIMBER
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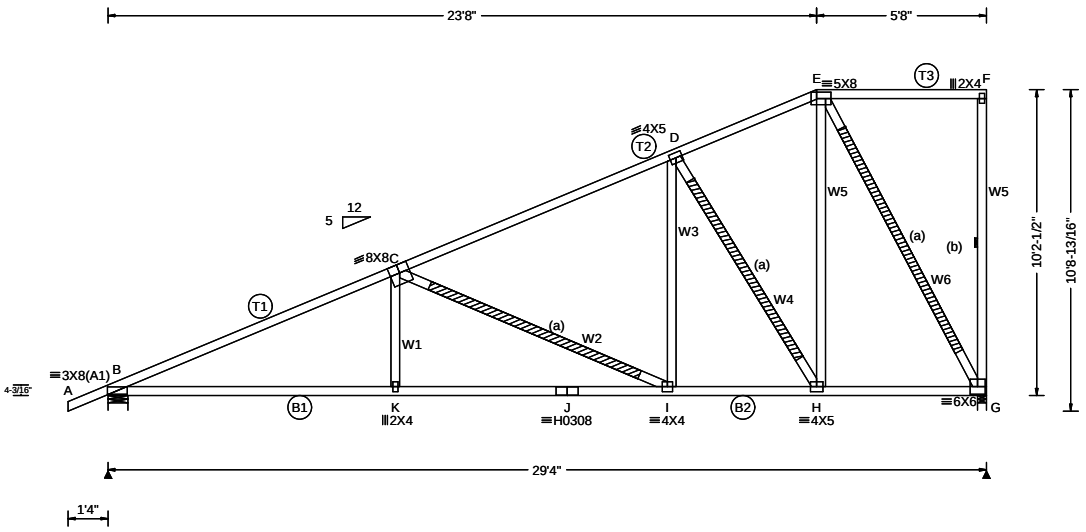
3670 COMMERCE CENTER DRIVE
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A9	Ply: 1 Qty: 2 Wgt: 177.8 lbs	SEQN: 29895 / T2 / HIPM FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)

TCLL:	20.00
TCDL:	20.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	50.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.095	K	999	360
VERT(TL): 0.222	K	999	240
HORZ(LL): 0.034	G	-	-
HORZ(TL): 0.079	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.810
Max BC CSI: 0.766
Max Web CSI: 0.906
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1680	/-	/-	/1242	/241	/401
G	1675	/-	/-	/1082	/412	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
G Brg Width = 3.5 Min Req = 2.0
Bearings B & G are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	D - E	358	-958
B - C	816	-3022	E - F	0	0
C - D	486	-1741			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2669	-1186	I - H	1440	-656
K - J	2664	-1188	H - G	781	-365
J - I	2664	-1188			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - C	416	0	E - H	1349	-422
C - I	591	-1320	E - G	736	-1573
I - D	734	-155	F - G	272	-236
D - H	565	-1283			

Lumber

Top chord: 2x4 SP M-31; T3 2x4 SP #2;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Bracing

(b) Continuous lateral restraint equally spaced on member.

(a) #3 or better scab reinforcement. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER
P.E.
#65698

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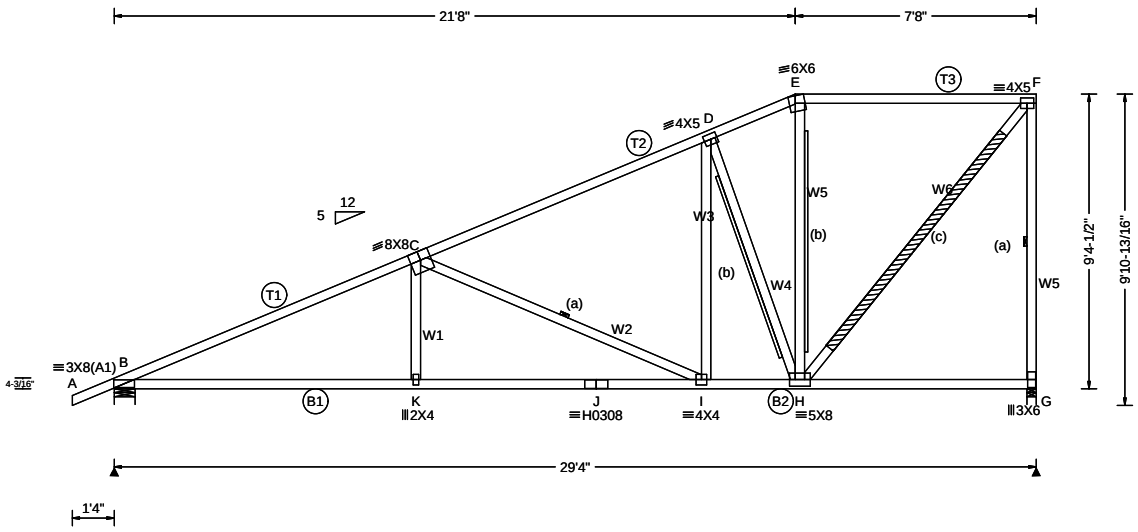
3670 COMMERCE CENTER DRIVE
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A8	Ply: 1 Qty: 2 Wgt: 175.0 lbs	SEQN: 29897 / T6 / HIPM FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)

TCLL:	20.00
TCDL:	20.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	50.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.090	K	999	360
VERT(TL): 0.213	K	999	240
HORZ(LL): 0.027	H	-	-
HORZ(TL): 0.065	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.600
Max BC CSI: 0.752
Max Web CSI: 0.967
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1647	/-	/-	/1238	/259	/369
G	1653	/-	/-	/1051	/425	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
G Brg Width = 3.5 Min Req = 2.0
Bearings B & G are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	D - E	543	-1147
B - C	914	-2944	E - F	549	-1009
C - D	586	-1648			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2598	-1235	I - H	1356	-699
K - J	2593	-1238	H - G	0	0
J - I	2593	-1238			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - C	419	0	E - H	337	-55
C - I	597	-1337	H - F	1582	-860
I - D	657	-175	F - G	978	-1493
D - H	422	-1012			

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Bracing

(a) Continuous lateral restraint equally spaced on member.

(b) 1x4 #2 SYP,HF,OR SPF "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

(c) #3 or better scab reinforcement. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER

P.E.

#65698

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SCOSTA CORPORATION
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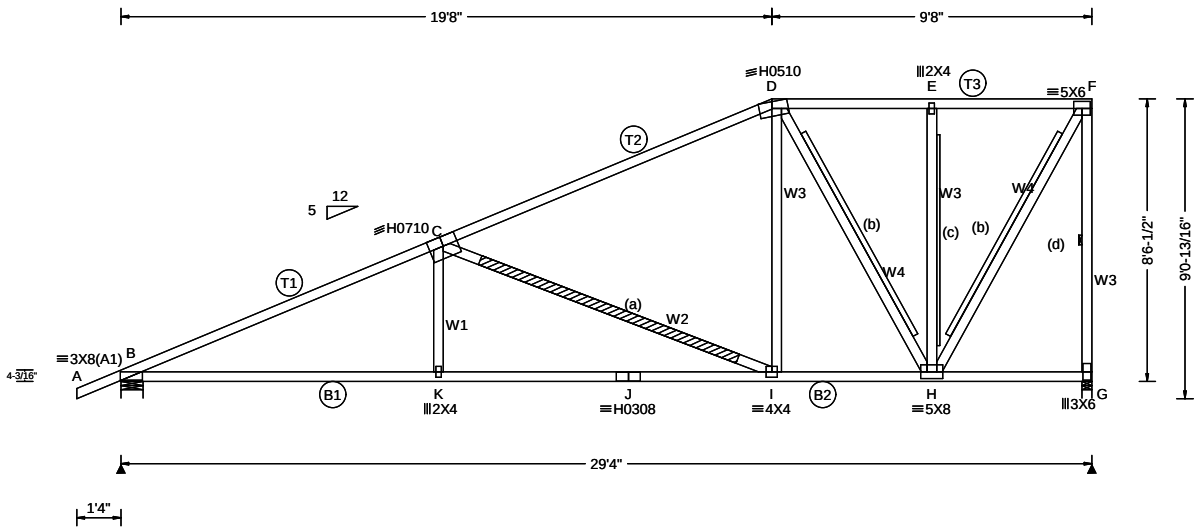
ROOF OR FLOOR TRUSSES
3670 COMMERCE CENTER DRIVE
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A7	Ply: 1 Qty: 2 Wgt: 173.6 lbs	SEQN: 29899 / T5 / HIPM FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)

TCLL:	20.00
TCDL:	20.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	50.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.092	K	999	360
VERT(TL): 0.218	K	999	240
HORZ(LL): 0.028	H	-	-
HORZ(TL): 0.067	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.805
Max BC CSI: 0.479
Max Web CSI: 0.987
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1665	/-	/-	/1232	/277	/336
G	1657	/-	/-	/1024	/436	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
G Brg Width = 3.5 Min Req = 1.5
Bearings B & G are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	D - E	482	-811
B - C	1033	-3002	E - F	481	-811
C - D	659	-1598			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2655	-1301	I - H	1316	-715
K - J	2650	-1303	H - G	0	0
J - I	2650	-1303			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - C	430	0	E - H	480	-370
C - I	641	-1441	H - F	1605	-952
D - I	767	-142	F - G	1014	-1559
D - H	461	-998			

Lumber

Top chord: 2x4 SP M-31; T3 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #2;

Bracing

(d) Continuous lateral restraint equally spaced on member.

(c) 1x4 #2 SYP,HF,OR SPF "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

(b) 2x4 #3 or better "T" reinforcement. 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

(a) #3 or better scab reinforcement. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER
P.E.
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SCOSTA CORPORATION
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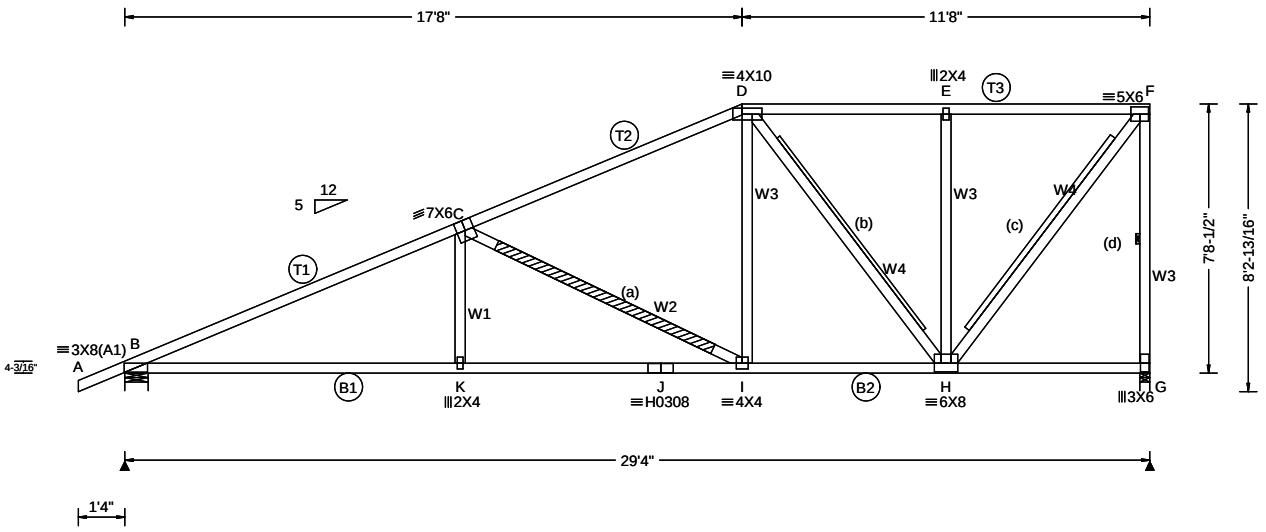
3670 COMMERCE CENTER DRIVE
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A6	Ply: 1 Qty: 2 Wgt: 165.2 lbs	SEQN: 29901 / T7 / HIPM FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 20.00	Speed: 160 mph	Pf: NA Ce: NA	VERT(LL): 0.088 K 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(TL): 0.205 K 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.030 H - -
Des Ld: 50.00	EXP: C	**Code / Misc Criteria**	HORZ(TL): 0.069 H - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Bldg Code: FBC 7th Ed. 2020/TPI	Creep Factor: 2.0
Soffit: 0.00	TCDL: 4.0 psf	TPI Std: 2014	Max TC CSI: 0.695
Load Duration: 1.25	BCDL: 6.0 psf	Rep Factors Used: Yes	Max BC CSI: 0.710
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	FT/RT:20(0)/10(0)	Max Web CSI: 0.924
	C&C Dist a: 3.00 ft	Plate Type(s):	Mfg Specified Camber:
	Loc. from endwall: not in 9.00 ft	WAVE, HS	
	GCpi: 0.18		VIEW Ver: 20.02.00A.1020.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1675	/-	/-	/1223	/297	/303
G	1667	/-	/-	/999	/447	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
G Brg Width = 3.5 Min Req = 2.0
Bearings B & G are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	D - E	656	-1070
B - C	1134	-2993	E - F	655	-1070
C - D	856	-1836			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2639	-1343	I - H	1560	-874
K - J	2634	-1345	H - G	0	0
J - I	2634	-1345			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - C	395	0	H - F	1731	-1060
C - I	531	-1206	E - H	636	-537
D - I	745	-159	F - G	1056	-1556
D - H	353	-793			

Lumber

Top chord: 2x4 SP M-31; T3 2x4 SP #2;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Bracing

(d) Continuous lateral restraint equally spaced on member.

(b) 1x4 #2 SYP,HF,OR SPF "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

(c) 2x4 #3 or better "T" reinforcement. 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

(a) #3 or better scab reinforcement. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER
P.E.
#65698

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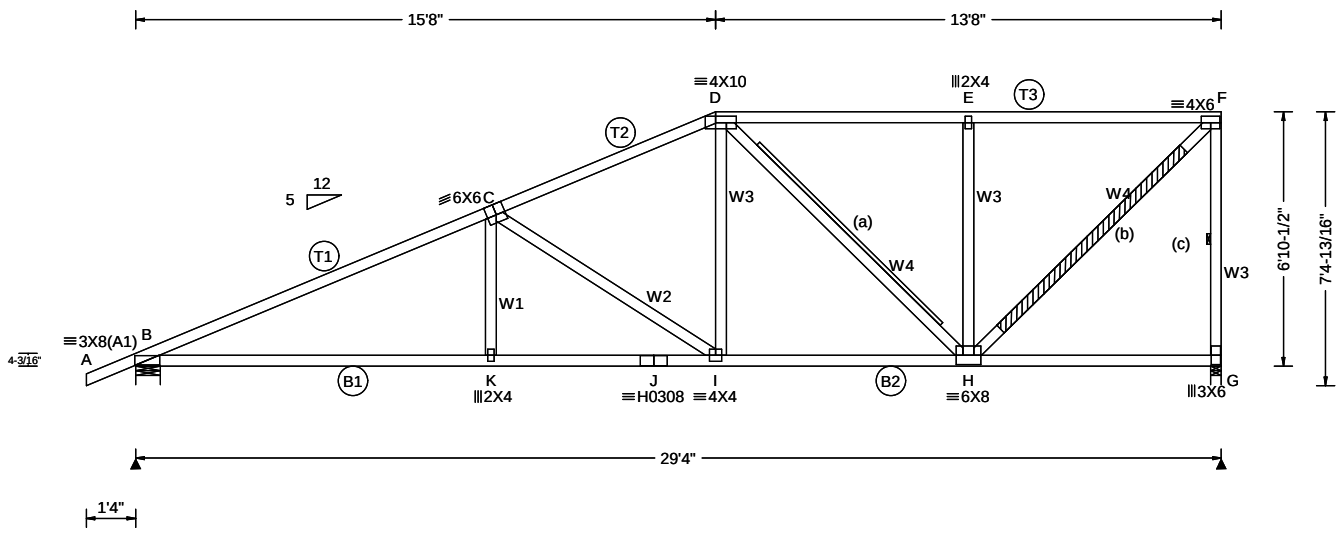
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A5	Ply: 1 Qty: 2 Wgt: 159.6 lbs	SEQN: 29903 / T4 / HIPM FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)	**Wind Criteria**	**Snow Criteria** (Pg,Pf in PSF)	**Defl/CSI Criteria**
TCLL: 20.00	Wind Std: ASCE 7-16	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 20.00	Speed: 160 mph	Pf: NA Ce: NA	VERT(LL): 0.085 K 999 360
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(TL): 0.197 K 999 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.029 H - -
Des Ld: 50.00	EXP: C	**Code / Misc Criteria**	HORZ(TL): 0.067 H - -
NCBCLL: 10.00	Mean Height: 15.00 ft	Bldg Code: FBC 7th Ed. 2020/TPI2014	Creep Factor: 2.0
Soffit: 0.00	TCDL: 4.0 psf	TPI Std: 2014	Max TC CSI: 0.861
Load Duration: 1.25	BCDL: 6.0 psf	Rep Factors Used: Yes	Max BC CSI: 0.733
Spacing: 24.0 "	MWFRS Parallel Dist: h to 2h	FT/RT:20(0)/10(0)	Max Web CSI: 0.935
	C&C Dist a: 3.00 ft	Plate Type(s):	Mfg Specified Camber:
	Loc. from endwall: not in 9.00 ft	WAVE, HS	
	GCpi: 0.18		VIEW Ver: 20.02.00A.1020.21
	Wind Duration: 1.60		

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1683	/-	/-	/1211	/318	/271
G	1664	/-	/-	/976	/456	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
G Brg Width = 3.5 Min Req = 2.0
Bearings B & G are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	D - E	890	-1368
B - C	1300	-2991	E - F	890	-1368
C - D	1105	-2081			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2634	-1462	I - H	1812	-1093
K - J	2630	-1464	H - G	0	0
J - I	2630	-1464			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - C	359	0	E - H	760	-667
C - I	449	-990	H - F	1899	-1235
D - I	740	-181	F - G	1115	-1540
D - H	282	-616			

Lumber

Top chord: 2x4 SP M-31; T3 2x4 SP #2;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Bracing

(c) Continuous lateral restraint equally spaced on member.

(a) 1x4 #2 SYP,HF,OR SPF "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

(b) #3 or better scab reinforcement. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER

P.E.

#65698

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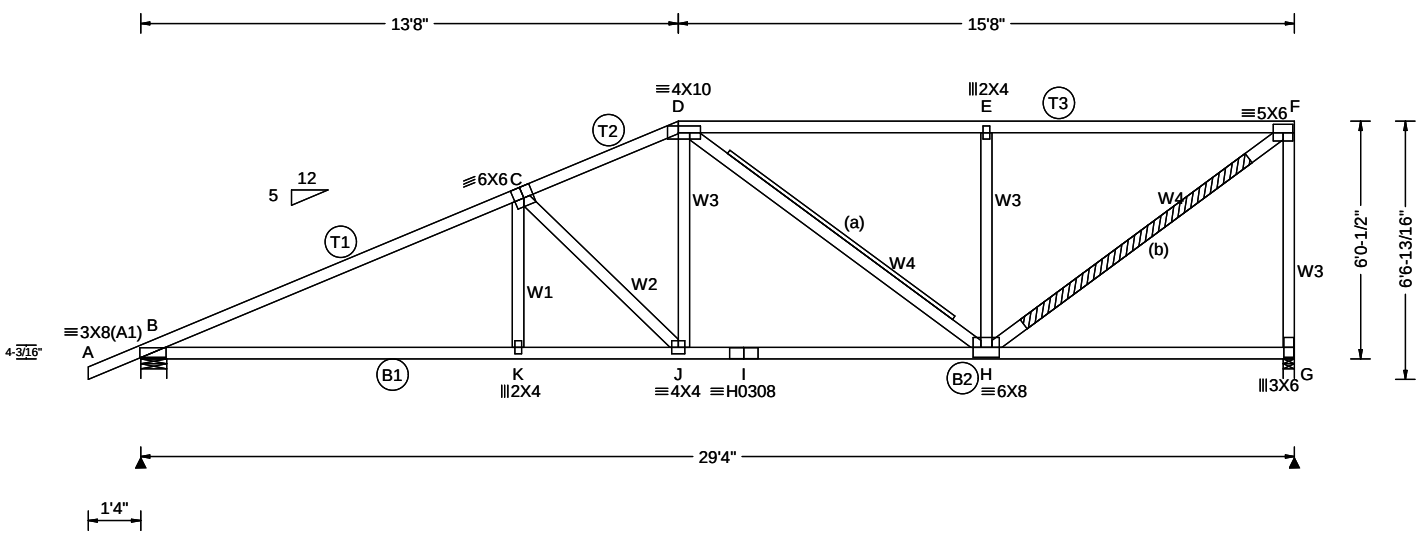
Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A4	Ply: 1 Qty: 2 Wgt: 155.4 lbs	SEQN: 29905 / T3 / HIPM FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)

TCLL:	20.00
TCDL:	20.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	50.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.081	J	999	360
VERT(TL): 0.191	J	999	240
HORZ(LL): 0.025	H	-	-
HORZ(TL): 0.058	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.777
Max BC CSI: 0.449
Max Web CSI: 0.973
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1686	/-	/-	/1197	/340	/238
G	1644	/-	/-	/957	/464	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
G Brg Width = 3.5 Min Req = 1.5
Bearings B & G are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	D - E	1159	- 1716
B - C	1440	- 2994	E - F	1159	- 1715
C - D	1340	- 2326			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2635	- 1543	I - H	2059	- 1284
K - J	2631	- 1544	H - G	0	0
J - I	2059	- 1284			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
K - C	331	0	E - H	872	- 777
C - J	373	- 819	H - F	2128	- 1437
D - J	749	- 201	F - G	1145	- 1512
D - H	155	- 426			

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #2;

Bracing

(a) 1x4 #2 SYP,HF,OR SPF "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

(b) #3 or better scab reinforcement. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Loading

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER
P.E.
#65698

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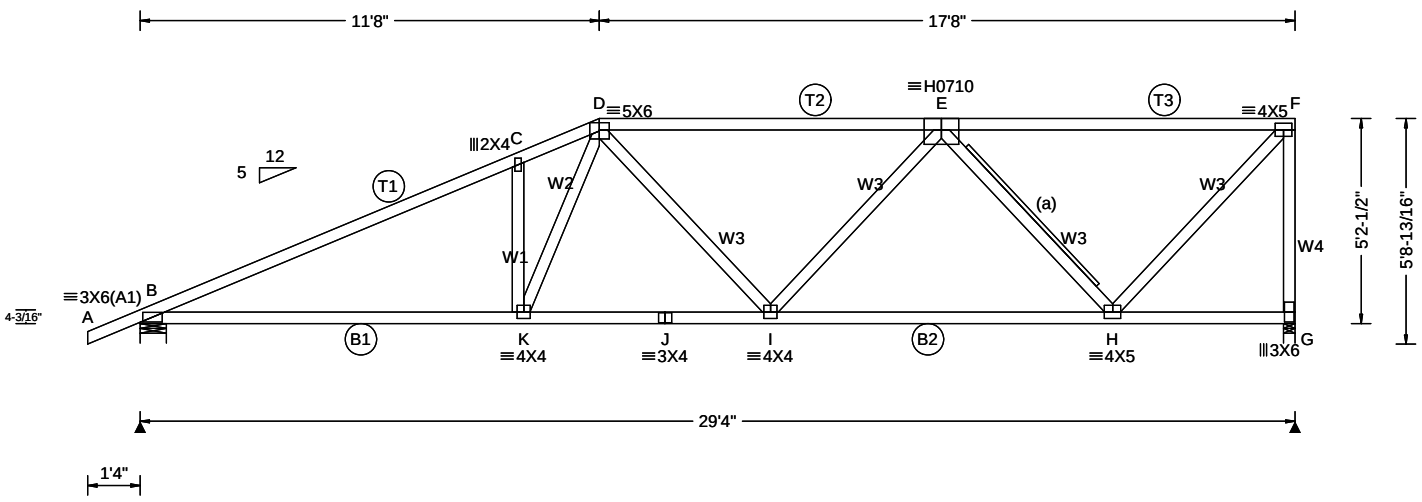
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A3	Ply: 1 Qty: 2 Wgt: 148.4 lbs	SEQN: 29871 / T30 / HIPM FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)
TCLL: 20.00
TCDL: 20.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 50.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.074	C	999	360
VERT(TL): 0.190	C	999	240
HORZ(LL): 0.028	H	-	-
HORZ(TL): 0.073	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.643
Max BC CSI: 0.827
Max Web CSI: 0.844
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1637	/-	/-	/1180	/512	/284
G	1505	/-	/-	/940	/510	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
G Brg Width = 3.5 Min Req = 1.8
Bearings B & G are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	D - E	1484	- 2169
B - C	1600	- 2885	E - F	755	- 1119
C - D	1739	- 2803			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2539	- 1646	I - H	2027	- 1546
K - J	2193	- 1503	H - G	0	0
J - I	2193	- 1503			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - K	395	- 608	E - H	1195	- 1372
K - D	866	- 349	H - F	1631	- 1100
D - I	122	- 56	F - G	1142	- 1481
I - E	330	0			

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Bracing

(a) 1x4 #2 SYP,HF,OR SPF "T" reinforcement. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER
P.E.
#65698

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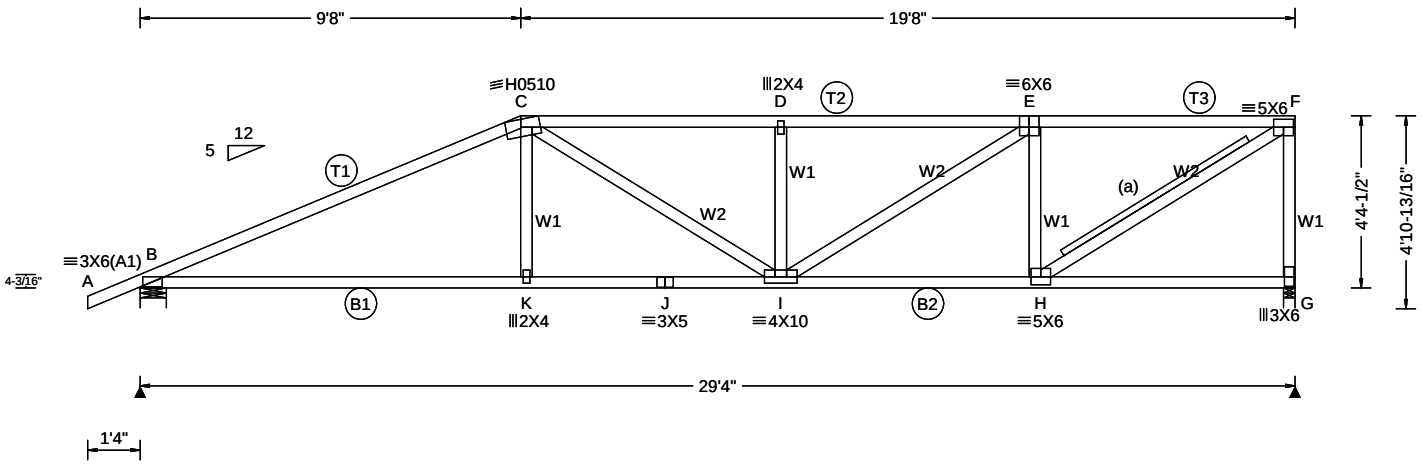
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A2	Ply: 1 Qty: 2 Wgt: 147.0 lbs	SEQN: 29872 / T18 / HIPM FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)

TCLL:	20.00
TCDL:	20.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	50.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.094	D	999	360
VERT(TL): 0.241	D	999	240
HORZ(LL): 0.027	H	-	-
HORZ(TL): 0.069	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.770
Max BC CSI: 0.688
Max Web CSI: 0.990
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1637	/-	/-	/1160	/520	/239
G	1505	/-	/-	/925	/503	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
G Brg Width = 3.5 Min Req = 1.8
Bearings B & G are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	D - E	1981	- 2711
B - C	1751	- 2870	E - F	1446	- 1939
C - D	1981	- 2712			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	2521	- 1735	I - H	2016	- 1517
K - J	2529	- 1732	H - G	0	0
J - I	2529	- 1732			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - K	376	0	E - H	1007	- 1076
C - I	224	- 365	H - F	2294	- 1710
D - I	587	- 466	F - G	1178	- 1453
I - E	828	- 595			

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Bracing

(a) 2x4 #3 or better "T" reinforcement. 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER
P.E.
#65698

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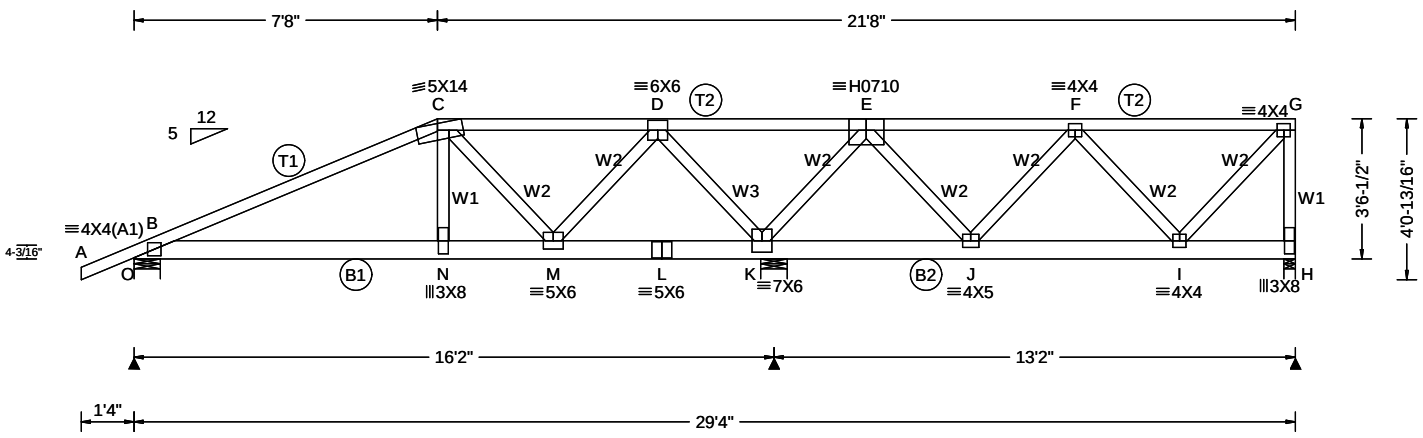
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A1	Ply: 1 Qty: 2 Wgt: 163.8 lbs	SEQN: 29890 / T17 / HIPM FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)

TCLL:	20.00
TCDL:	20.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	50.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Varies by Location
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.044	N	999	360
VERT(TL): 0.111	N	999	240
HORZ(LL): 0.010	H	-	-
HORZ(TL): 0.025	H	-	-

Creep Factor: 2.0
Max TC CSI: 0.830
Max BC CSI: 0.731
Max Web CSI: 0.821
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
O	1414	/-	/-	/-	/477	/-
K	5179	/-	/-	/-	/1794	/-
H	1121	/-	/-	/-	/392	/-

Wind reactions based on MWFRS
O Brg Width = 8.0 Min Req = 1.7
K Brg Width = 8.0 Min Req = 6.1
H Brg Width = 3.5 Min Req = 1.5
Bearings O, K, & H are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	- 20	D - E	2392	- 857
B - C	846	- 2505	E - F	93	- 414
C - D	316	- 1085	F - G	198	- 709

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - N	2221	- 738	K - J	165	- 720
N - M	2275	- 747	J - I	1025	- 414
M - L	18	- 254	I - H	19	- 11
L - K	18	- 254			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - N	1170	- 210	E - J	1531	- 403
C - M	635	- 1766	J - F	502	- 1000
M - D	2019	- 522	F - I	338	- 493
D - K	1311	- 3363	I - G	1016	- 276
K - E	1081	- 2707	G - H	393	- 1080

Lumber

Top chord: 2x4 SP M-31; T1 2x4 SP #2;
Bot chord: 2x6 SP #2;
Webs: 2x4 SP #2; W3 2x4 SP M-31;

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 83 plf at -1.33 to 83 plf at 7.67
TC: From 42 plf at 7.67 to 42 plf at 29.33
BC: From 20 plf at 0.00 to 20 plf at 7.70
BC: From 10 plf at 7.70 to 10 plf at 29.33
TC: 404 lb Conc. Load at 7.70
TC: 282 lb Conc. Load at 9.73,11.73,13.73,15.73 17.73,19.73,21.73,23.73,25.73,27.73
BC: 975 lb Conc. Load at 7.70
BC: 145 lb Conc. Load at 9.73,11.73,13.73,15.73 17.73,19.73,21.73,23.73,25.73,27.73

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER
P.E.
#65698

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****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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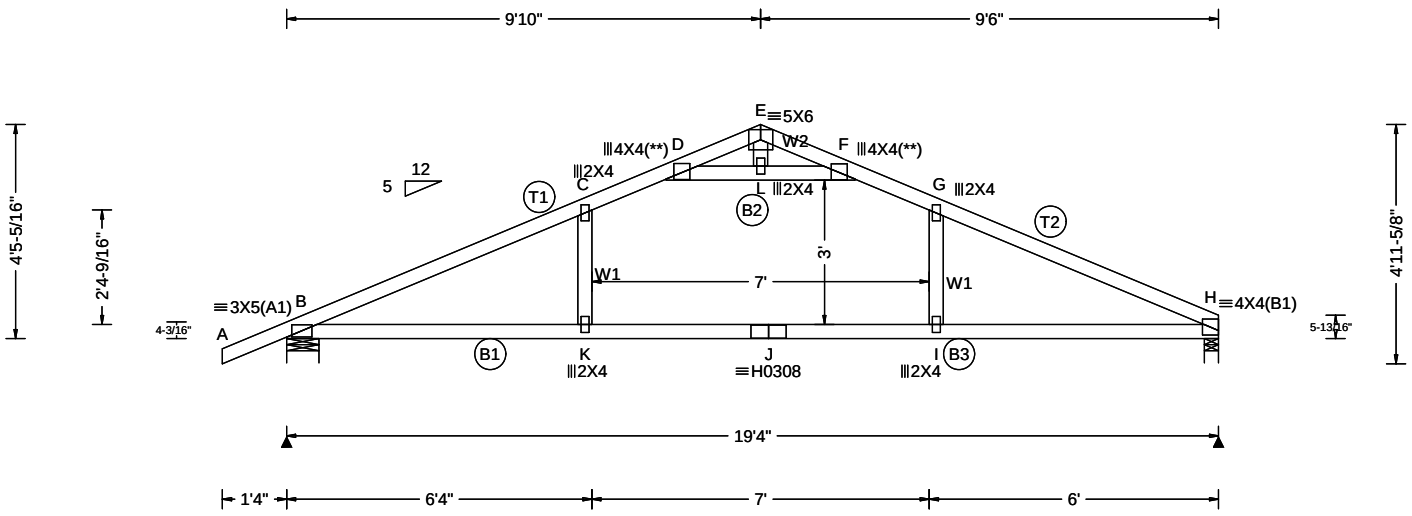
SCOSTA CORPORATION
WOOD, STEEL OR TIMBER
ROOF OR FLOOR TRUSSES
3670 COMMERCE CENTER DRIVE
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A17	Ply: 1 Qty: 8 Wgt: 79.8 lbs	SEQN: 29873 / T15 / SPEC FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)

TCLL:	20.00
TCDL:	20.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	50.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Varies by Ld Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.201	K	999	360
VERT(TL): 0.555	K	411	240
HORZ(LL): 0.082	C	-	-
HORZ(TL): 0.227	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.696
Max BC CSI: 0.482
Max Web CSI: 0.101
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1252	/-	/-	/787	/382	/160
H	1137	/-	/-	/659	/341	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
H Brg Width = 3.5 Min Req = 1.5
Bearings B & H are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	- 17	E - F	338	- 71
B - C	796	- 2025	F - G	836	- 1740
C - D	827	- 1733	G - H	803	- 2027
D - E	343	- 74			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	1746	- 636	J - I	1752	- 634
K - J	1752	- 634	I - H	1746	- 635

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - K	447	- 87	L - F	950	- 2149
D - L	950	- 2149	I - G	439	- 80
E - L	393	- 171			

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	83 plf at	-1.33 to	83 plf at	19.33
BC: From	20 plf at	0.00 to	20 plf at	6.33
BC: From	60 plf at	6.33 to	60 plf at	13.33
BC: From	20 plf at	13.33 to	20 plf at	19.33

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER
P.E.
#65698

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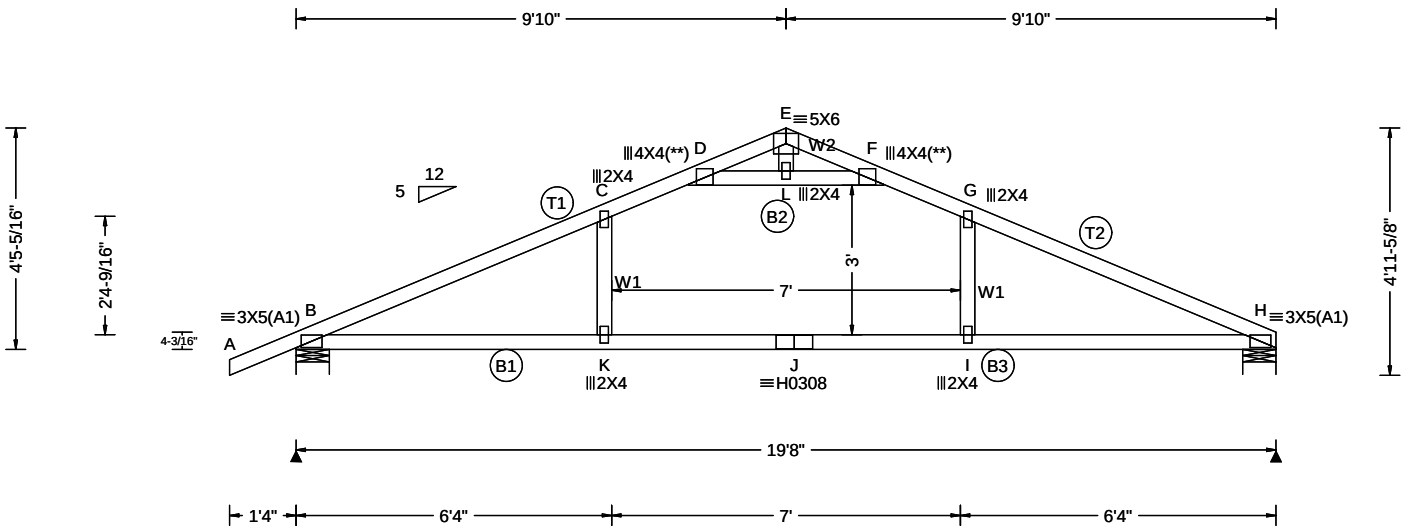
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A18	Ply: 1 Qty: 2 Wgt: 79.8 lbs	SEQN: 29874 / T25 / COMN FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)

TCLL:	20.00
TCDL:	20.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	50.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Varies by Load Case
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.200 I	999	360
VERT(TL):	0.505 K	460	240
HORZ(LL):	0.073 C	-	-
HORZ(TL):	0.205 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.692
Max BC CSI: 0.458
Max Web CSI: 0.104
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	1272	/-	/-	/796	/388	/163
H	1151	/-	/-	/674	/341	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
H Brg Width = 8.0 Min Req = 1.5
Bearings B & H are a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	- 17	E - F	378	- 85
B - C	1121	- 2104	F - G	1147	- 1805
C - D	1145	- 1806	G - H	1123	- 2102
D - E	377	- 85			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - K	1820	- 901	J - I	1827	- 899
K - J	1827	- 899	I - H	1820	- 900

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - K	462	- 91	L - F	1318	- 2277
D - L	1318	- 2277	I - G	461	- 91
E - L	417	- 238			

Lumber

Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP M-31; B2 2x4 SP #2;
Webs: 2x4 SP #2;

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)

TC: From	83 plf at	-1.33 to	83 plf at	19.67
BC: From	20 plf at	0.00 to	20 plf at	6.33
BC: From	60 plf at	6.33 to	60 plf at	13.33
BC: From	20 plf at	13.33 to	20 plf at	19.67

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Wind loading based on both gable and hip roof types.

RICHARD A. SIVER
P.E.
#65698

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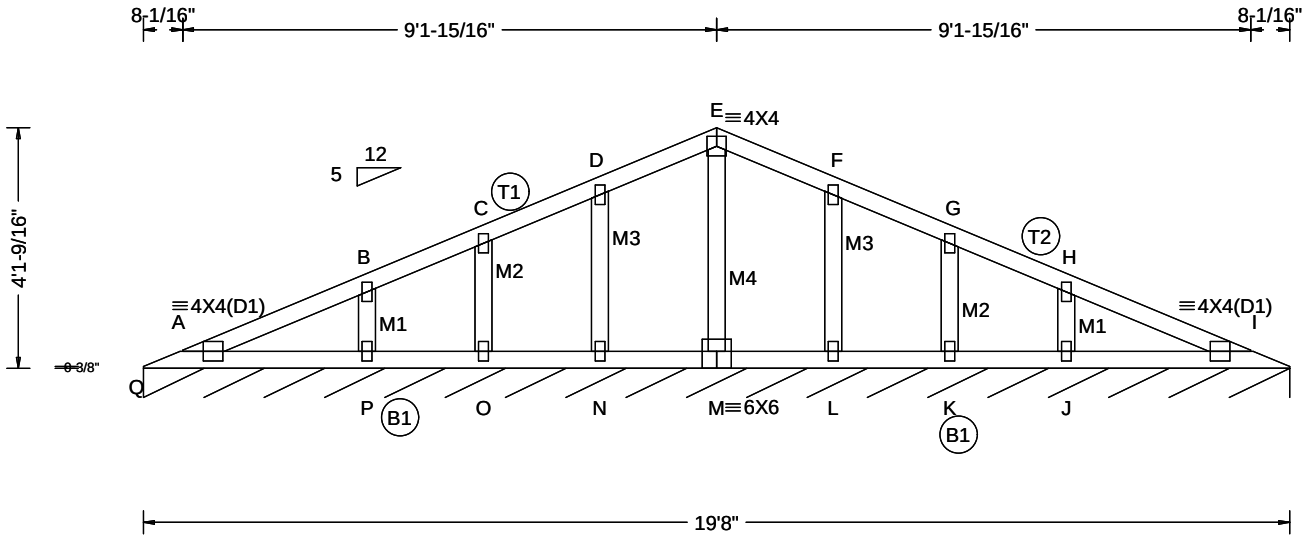
SCOSTA CORPORATION
WOOD, STEEL OR TIMBER
ROOF OR FLOOR TRUSSES
3670 COMMERCE CENTER DRIVE
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** A19	Ply: 1 Qty: 2 Wgt: 81.2 lbs	SEQN: 29875 / T1 / GABL FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)
TCLL: 20.00
TCDL: 20.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 50.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.007	J	999	360
VERT(TL): 0.017	J	999	240
HORZ(LL): 0.002	P	-	-
HORZ(TL): 0.005	P	-	-

Creep Factor: 2.0
Max TC CSI: 0.195
Max BC CSI: 0.124
Max Web CSI: 0.052
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
Q*	103	/-	/-	/62	/29	/7

Wind reactions based on MWFRS
Q Brg Width = 236 Min Req = -
Bearing Q is a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	120	- 98	E - F	178	0
B - C	95	- 25	F - G	112	- 9
C - D	112	- 9	G - H	95	- 25
D - E	178	0	H - I	120	- 98

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - P	138	- 92	M - L	158	- 105
P - O	149	- 100	L - K	153	- 102
O - N	153	- 102	K - J	149	- 100
N - M	158	- 105	J - I	138	- 92

Maximum Gable Forces Per Ply (lbs)

Gables	Tens.	Comp.	Gables	Tens.	Comp.
B - P	239	- 252	L - F	271	- 193
C - O	153	- 131	K - G	153	- 131
D - N	271	- 193	J - H	239	- 252
E - M	19	- 199			

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;

Plating Notes
All plates are 2X4 except as noted.

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
Wind loading based on both gable and hip roof types.

Additional Notes
See standard gable detail for more requirements.

PLATING NOTES
All plates are 2X4 except as noted.

RICHARD A. SIVER
P.E.
#65698

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For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SCOSTA CORPORATION
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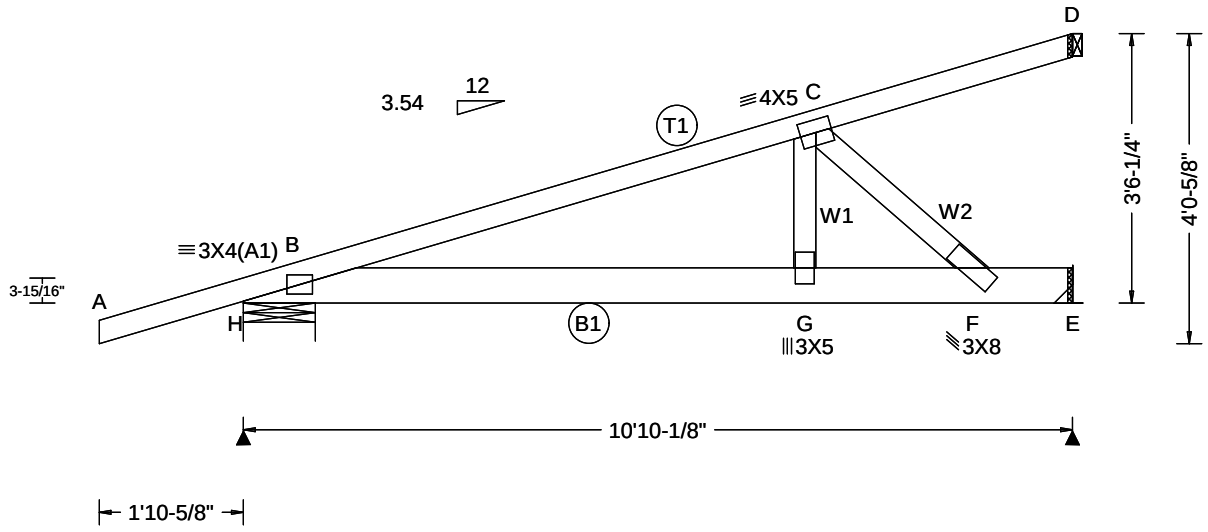
ROOF OR FLOOR TRUSSES
3670 COMMERCE CENTER DRIVE
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** CJ11	Ply: 1 Qty: 2 Wgt: 51.8 lbs	SEQN: 29889 / T22 / HIP_ FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)
TCLL: 20.00
TCDL: 20.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 50.00
NCBCLL: 0.00
Soffit: 0.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 0.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: NA
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: No
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.040	G	999	360
VERT(TL): 0.102	G	999	240
HORZ(LL): 0.006	C	-	-
HORZ(TL): 0.015	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.629
Max BC CSI: 0.584
Max Web CSI: 0.149
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
H	603	/-	/-	/-	/208	/-
E	830	/-	/-	/-	/238	/-
D	122	/-	/-	/-	/64	/-

Wind reactions based on MWFRS
H Brg Width = 11.3 Min Req = 1.5
E Brg Width = - Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing H is a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	28	- 13	C - D	53	- 96
B - C	376	- 1154			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - G	1056	- 333	F - E	0	0
G - F	1024	- 330			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - C	658	- 59	C - F	469	- 1456

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x6 SP M-14;
Webs: 2x4 SP #2;

Loading
Hipjack supports 7-8-0 setback jacks. Jacks up to 7' have no webs. Longer jacks supported to BC.

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
Wind loading based on both gable and hip roof types.

Additional Notes
Provide hanger or special connection at right end of truss for 830 lbs.
Provide (2) 16d toe-nails at top chord.

RICHARD A. SIVER
P.E.
#65698

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SCOSTA CORPORATION
WOOD, STEEL OR TIMBER
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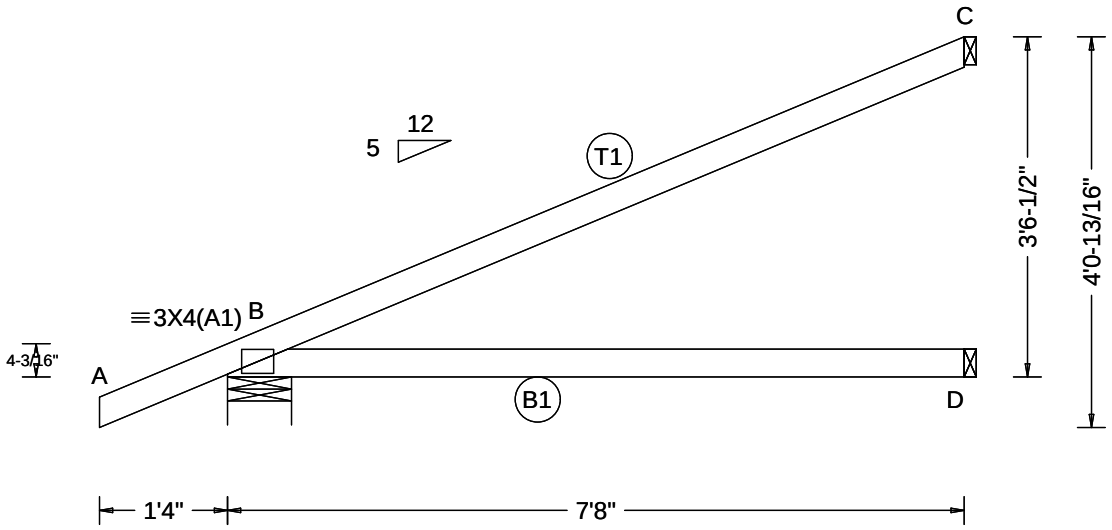
3670 COMMERCE CENTER DRIVE
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** EJ8	Ply: 1 Qty: 22 Wgt: 25.2 lbs	SEQN: 29876 / T33 / EJAC FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)
TCLL: 20.00
TCDL: 20.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 50.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(TL): NA
HORZ(LL): 0.017 D - -
HORZ(TL): 0.042 D - -
Creep Factor: 2.0
Max TC CSI: 0.470
Max BC CSI: 0.651
Max Web CSI: 0.000
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	527	/-	/-	/425	/141	/194
D	145	/-	/-	/85	/-	/-
C	282	/-	/-	/208	/173	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	B - C	108	-160

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - D	0	0

Lumber
Top chord: 2x4 SP M-31;
Bot chord: 2x4 SP #2;

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
Wind loading based on both gable and hip roof types.

Additional Notes
Provide (2) 16d toe-nails at top chord.
Provide (2) 16d toe-nails at bottom chord.

RICHARD A. SIVER
P.E.
#65698

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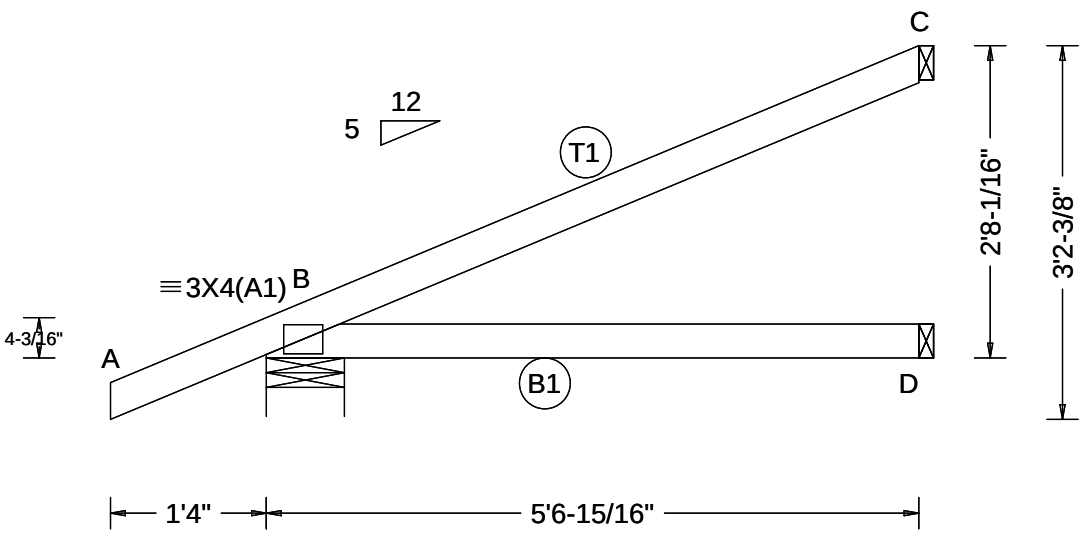
3670 COMMERCE CENTER DRIVE
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** J6	Ply: 1 Qty: 4 Wgt: 19.6 lbs	SEQN: 29877 / T24 / JACK FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)
TCLL: 20.00
TCDL: 20.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 50.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(TL): NA
HORZ(LL): 0.007 D - -
HORZ(TL): 0.017 D - -
Creep Factor: 2.0
Max TC CSI: 0.585
Max BC CSI: 0.339
Max Web CSI: 0.000
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	424	/-	/-	/350	/118	/147
D	107	/-	/-	/62	/-	/-
C	194	/-	/-	/142	/120	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	B - C	75	-128

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - D	0	0

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
Wind loading based on both gable and hip roof types.

Additional Notes
Provide (2) 16d toe-nails at top chord.
Provide (2) 16d toe-nails at bottom chord.

RICHARD A. SIVER
P.E.
#65698

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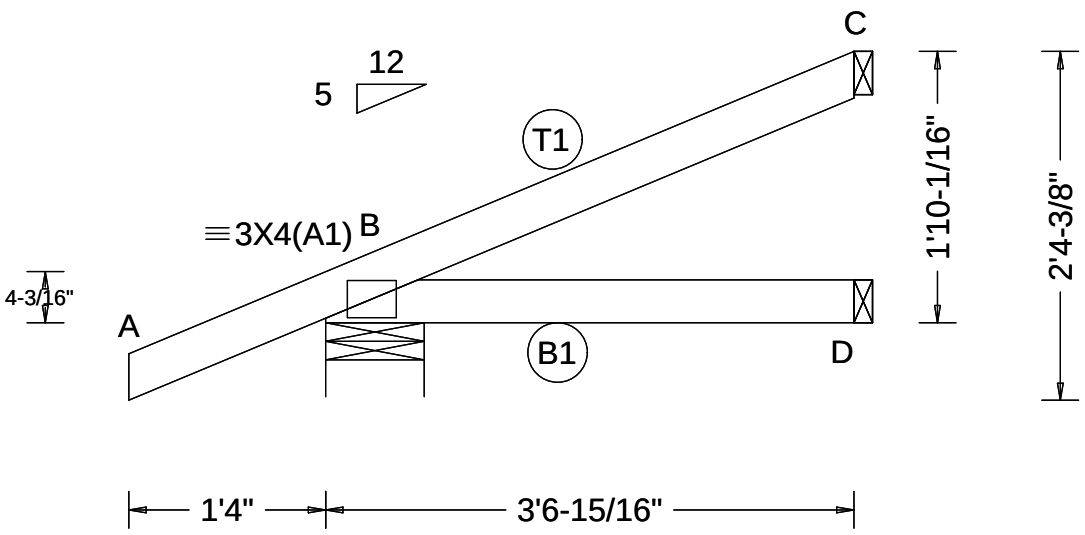
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** J4	Ply: 1 Qty: 4 Wgt: 14.0 lbs	SEQN: 29878 / T35 / JACK FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)
TCLL: 20.00
TCDL: 20.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 50.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020Max TC CSI: 0.216
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(TL): NA
HORZ(LL): 0.001 D - -
HORZ(TL): 0.003 D - -
Creep Factor: 2.0
Max BC CSI: 0.111
Max Web CSI: 0.000
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	330	/-	/-	/285	/99	/103
D	64	/-	/-	/36	/-	/-
C	113	/-	/-	/79	/72	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	B - C	43	-81

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - D	0	0

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
Wind loading based on both gable and hip roof types.

Additional Notes
Provide (2) 16d toe-nails at top chord.
Provide (2) 16d toe-nails at bottom chord.

RICHARD A. SIVER
P.E.
#65698

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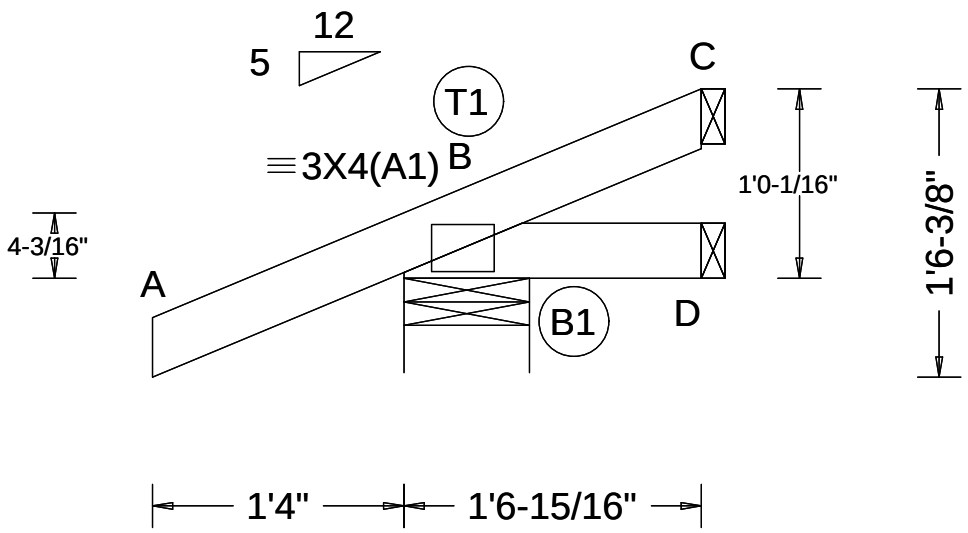
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** J2	Ply: 1 Qty: 4 Wgt: 8.4 lbs	SEQN: 29879 / T34 / JACK FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)
TCLL: 20.00
TCDL: 20.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 50.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(TL): NA
HORZ(LL): 0.000 D - -
HORZ(TL): 0.001 D - -
Creep Factor: 2.0
Max TC CSI: 0.294
Max BC CSI: 0.053
Max Web CSI: 0.000
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	264	/-	/-	/249	/99	/58
D	17	/-1	/-	/21	/8	/-
C	11	/-	/-	/26	/24	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
D Brg Width = 1.5 Min Req = -
C Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	B - C	10	-28

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
B - D	0	0

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
Wind loading based on both gable and hip roof types.

Additional Notes
Provide (2) 16d toe-nails at top chord.
Provide (2) 16d toe-nails at bottom chord.

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P.E.
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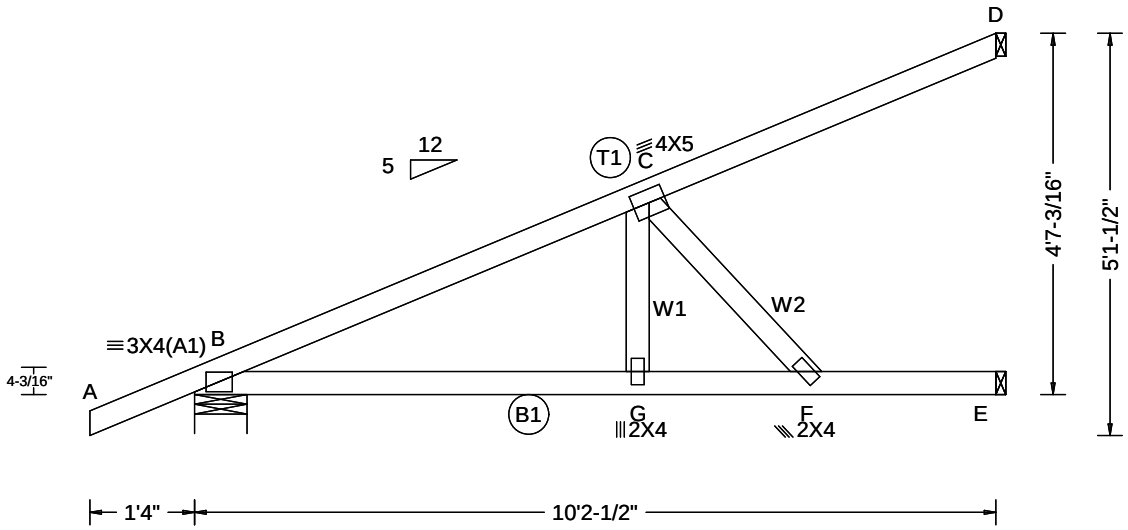
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** EJ2	Ply: 1 Qty: 10 Wgt: 46.2 lbs	SEQN: 29880 / T21 / JACK FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)

TCLL:	20.00
TCDL:	20.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	50.00
NCBCLL:	10.00
Soffit:	0.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.150	F	804	360
VERT(TL): 0.379	F	318	240
HORZ(LL): 0.047	C	-	-
HORZ(TL): 0.119	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.435
Max BC CSI: 0.580
Max Web CSI: 0.193
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs)

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
B	655	/-	/-	/518	/87	/182
E	336	/-	/-	/269	/56	/-
D	174	/-	/-	/130	/70	/-

Wind reactions based on MWFRS
B Brg Width = 8.0 Min Req = 1.5
E Brg Width = 1.5 Min Req = -
D Brg Width = 1.5 Min Req = -
Bearing B is a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	43	0	C - D	67	- 95
B - C	267	- 749			

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - G	611	- 494	F - E	0	0
G - F	592	- 484			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
G - C	547	- 277	C - F	730	- 891

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #2;

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
Wind loading based on both gable and hip roof types.

Additional Notes
Provide (2) 16d toe-nails at top chord.
Provide (3) 16d toe-nails at bottom chord.

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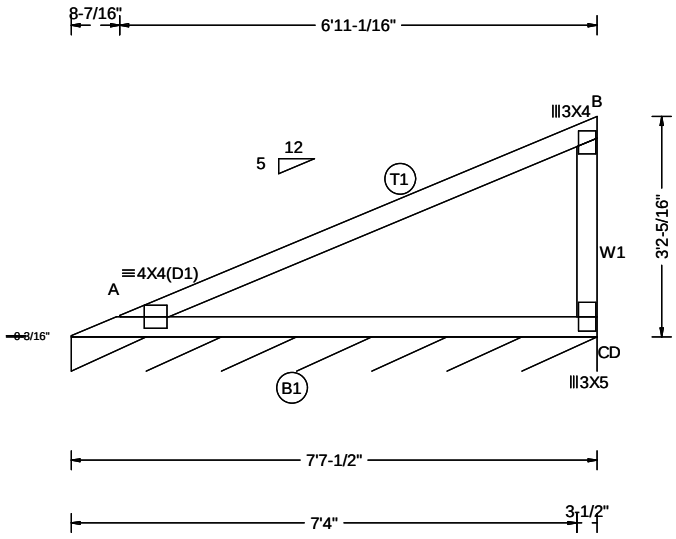
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** V4	Ply: 1 Qty: 2 Wgt: 26.6 lbs	SEQN: 29881 / T19 / VAL FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)
TCLL: 20.00
TCDL: 20.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 50.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(TL): NA
HORZ(LL): 0.017 C - -
HORZ(TL): 0.045 C - -
Creep Factor: 2.0
Max TC CSI: 0.925
Max BC CSI: 0.291
Max Web CSI: 0.233
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	103	/-	/-	/73	/15	/15

Wind reactions based on MWFRS
D Brg Width = 91.5 Min Req = -
Bearing A is a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	54	- 147

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - C	229	- 26

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - C	324	- 255

Lumber

Top chord: 2x4 SP #2;
Bot chord: 2x4 SP M-31;
Webs: 2x4 SP #2;

Purlins

In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind

Right end vertical not exposed to wind pressure.

Wind loading based on both gable and hip roof types.

Additional Notes

See applicable standard valley or piggyback details for more requirements.

RICHARD A. SIVER
P.E.
#65698

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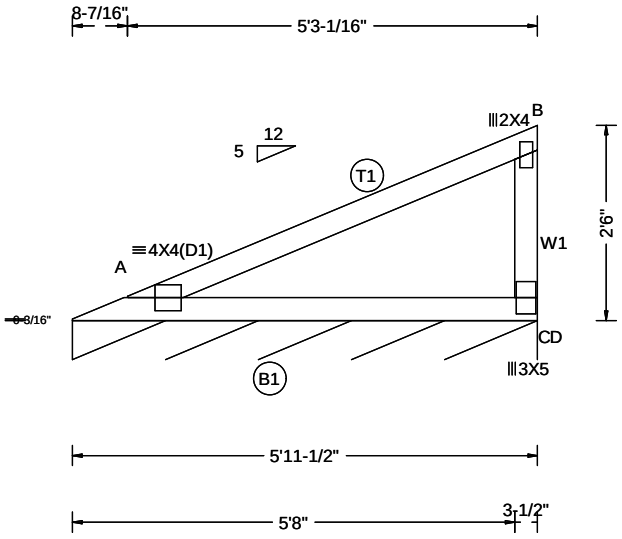
Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** V3	Ply: 1 Qty: 2 Wgt: 19.6 lbs	SEQN: 29882 / T16 / VAL FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)
TCLL: 20.00
TCDL: 20.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 50.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(TL): NA
HORZ(LL): 0.010 C - -
HORZ(TL): 0.025 C - -
Creep Factor: 2.0
Max TC CSI: 0.563
Max BC CSI: 0.417
Max Web CSI: 0.147
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	103	/-	/-	/71	/14	/14

Wind reactions based on MWFRS
D Brg Width = 71.5 Min Req = -
Bearing A is a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	47	- 101

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - C	195	- 21

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - C	284	- 202

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes
See applicable standard valley or piggyback details for more requirements.

RICHARD A. SIVER
P.E.
#65698

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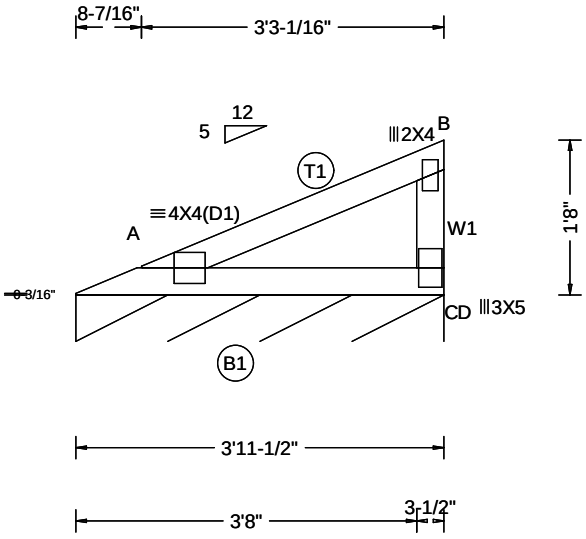
3670 COMMERCE CENTER DRIVE
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** V2	Ply: 1 Qty: 2 Wgt: 14.0 lbs	SEQN: 29883 / T23 / VAL FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)
TCLL: 20.00
TCDL: 20.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 50.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(TL): NA
HORZ(LL): 0.003 C - -
HORZ(TL): 0.007 C - -
Creep Factor: 2.0
Max TC CSI: 0.260
Max BC CSI: 0.213
Max Web CSI: 0.073
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	103	/-	/-	/68	/12	/13

Wind reactions based on MWFRS
D Brg Width = 47.5 Min Req = -
Bearing A is a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	35	- 74

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - C	173	- 15

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - C	222	- 129

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes
See applicable standard valley or piggyback details for more requirements.

RICHARD A. SIVER
P.E.
#65698

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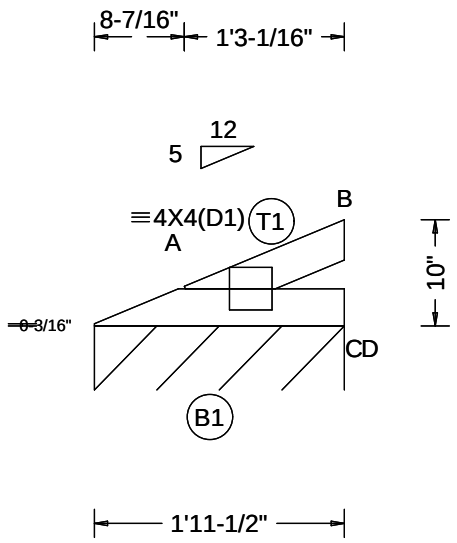
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** V1	Ply: 1 Qty: 2 Wgt: 5.6 lbs	SEQN: 29884 / T26 / VAL FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)
TCLL: 20.00
TCDL: 20.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 50.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 15.00 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.003	B	999	360
VERT(TL): 0.008	B	999	240
HORZ(LL): 0.001	B	-	-
HORZ(TL): 0.003	B	-	-

Creep Factor: 2.0
Max TC CSI: 0.045
Max BC CSI: 0.094
Max Web CSI: 0.000
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	102	/-	/-	/57	/14	/13

Wind reactions based on MWFRS
D Brg Width = 23.5 Min Req = -
Bearing A is a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	0	-19

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - C	73	-7

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
Wind loading based on both gable and hip roof types.

Additional Notes
See applicable standard valley or piggyback details for more requirements.

RICHARD A. SIVER
P.E.
#65698

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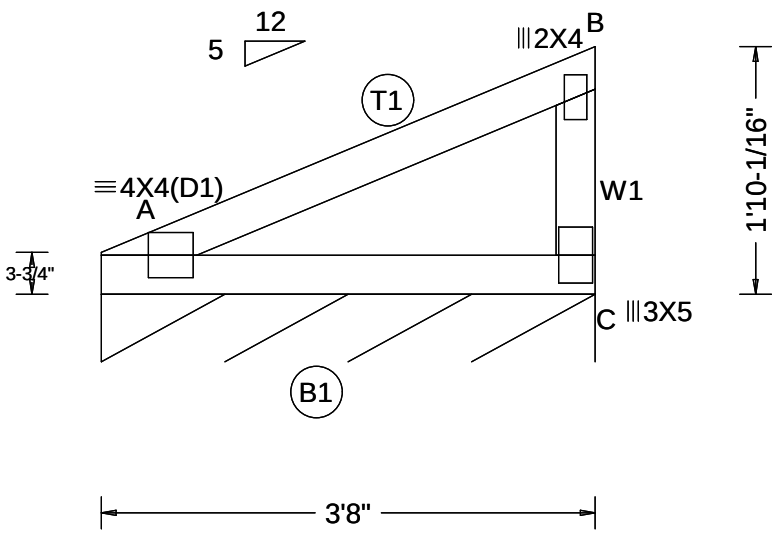
Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** PB2	Ply: 1 Qty: 22 Wgt: 14.0 lbs	SEQN: 29885 / T11 / VAL FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)
TCLL: 20.00
TCDL: 20.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 50.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 21.45 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria
PP Deflection in loc L/defl L/#
VERT(LL): NA
VERT(TL): NA
HORZ(LL): 0.002 C - -
HORZ(TL): 0.006 C - -
Creep Factor: 2.0
Max TC CSI: 0.263
Max BC CSI: 0.169
Max Web CSI: 0.074
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
C*	103	/-	/-	/75	/20	/17

Wind reactions based on MWFRS
C Brg Width = 44.0 Min Req = -
Bearing A is a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	37	- 77

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - C	169	- 13

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - C	218	- 128

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
End verticals not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes
See applicable standard valley or piggyback details for more requirements.

RICHARD A. SIVER
P.E.
#65698

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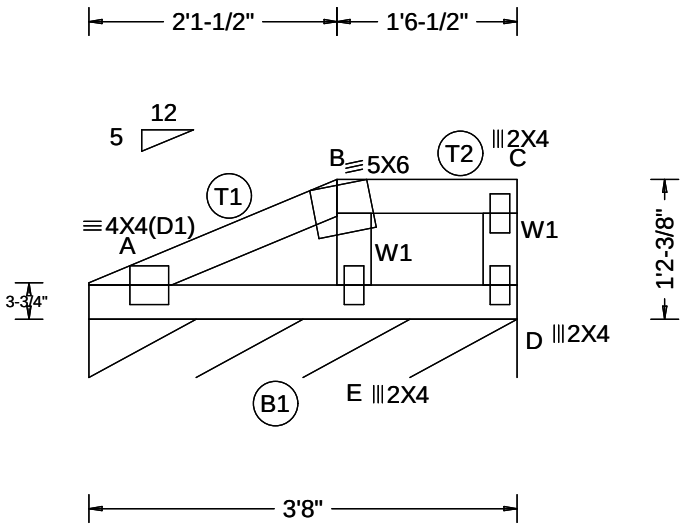
Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** PB1	Ply: 1 Qty: 2 Wgt: 15.4 lbs	SEQN: 29886 / T10 / VAL FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)
TCLL: 20.00
TCDL: 20.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 50.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 21.13 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.001	E	999	360
VERT(TL): 0.002	E	999	240
HORZ(LL): 0.000	E	-	-
HORZ(TL): 0.001	E	-	-

Creep Factor: 2.0
Max TC CSI: 0.091
Max BC CSI: 0.067
Max Web CSI: 0.050
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	103	/-	/-	/69	/30	/10

Wind reactions based on MWFRS
D Brg Width = 44.0 Min Req = -
Bearing A is a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	10	- 44	B - C	5	- 2

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - E	86	- 6	E - D	131	- 10

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
B - E	281	- 125	C - D	155	- 65

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
End verticals not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes
See applicable standard valley or piggyback details for more requirements.

RICHARD A. SIVER
P.E.
#65698

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****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

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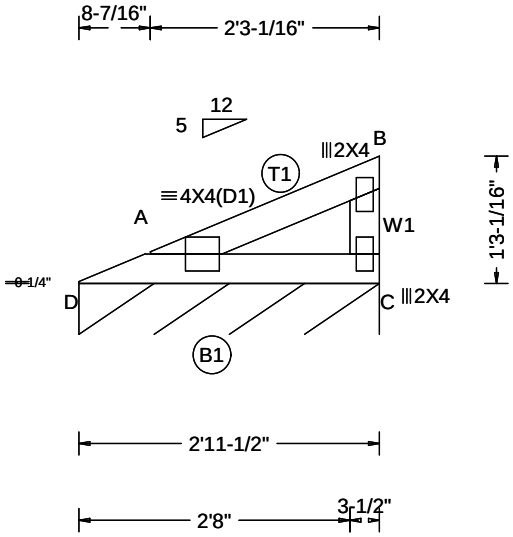
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

SCOSTA CORPORATION
WOOD, STEEL OR TIMBER
ROOF OR FLOOR TRUSSES
3670 COMMERCE CENTER DRIVE
SEBRING, FL 33870
(863)385-8242

Job Number: DR1503-160C .D.R. HORTON /1503 F TWIN VILLA /KKD **Truss Label:** PB3	Ply: 1 Qty: 2 Wgt: 9.8 lbs	SEQN: 29887 / T28 / VAL FROM:	DRW: ... / ... 02/17/2021



Loading Criteria (psf)
TCLL: 20.00
TCDL: 20.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 50.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-16
Speed: 160 mph
Enclosure: Closed
Risk Category: II
EXP: C
Mean Height: 21.16 ft
TCDL: 4.0 psf
BCDL: 6.0 psf
MWFRS Parallel Dist: h to 2h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 9.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 7th Ed. 2020 Res
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:20(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.004	C	999	360
VERT(TL): 0.011	C	999	240
HORZ(LL): 0.001	C	-	-
HORZ(TL): 0.002	C	-	-

Creep Factor: 2.0
Max TC CSI: 0.130
Max BC CSI: 0.117
Max Web CSI: 0.043
Mfg Specified Camber:

VIEW Ver: 20.02.00A.1020.21

▲Maximum Reactions (lbs), or *=PLF

	Gravity			Non-Gravity		
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL
D*	103	/-	/-	/62	/12	/13

Wind reactions based on MWFRS
D Brg Width = 35.5 Min Req = -
Bearing D is a rigid surface.

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - B	27	-59

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.
A - C	134	-8

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
B - C	171	-92

Lumber
Top chord: 2x4 SP #2;
Bot chord: 2x4 SP #2;
Webs: 2x4 SP #2;

Purlins
In lieu of rigid ceiling provide lateral bracing to brace BC @ 24" oc

Wind
Right end vertical not exposed to wind pressure.
Wind loading based on both gable and hip roof types.

Additional Notes
See applicable standard valley or piggyback details for more requirements.

RICHARD A. SIVER
P.E.
#65698

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ANCHORAGE AND RESTRAINT OF LATERAL BRACING

THIS IS A DANGEROUS CONDITION

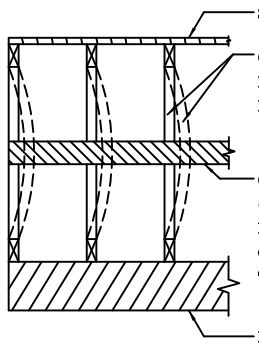


FIG. 1

TO PREVENT THIS FAILURE, ANCHOR OR RESTRAIN THE LATERAL BRACING!

USE METHOD SHOWN IN FIG. 2, 3A & 3B, OR ANOTHER STRUCTURALLY SOUND METHOD SPECIFIED BY PROFESSIONAL ENGINEER OR ARCHITECT.

THE DRAWING BELOW (FIG. 3B) SHOWS HOW TO RESTRAIN THE CONTINUOUS LATERAL BRACING (CLB – ▨). WHEN ANCHORAGE IS NOT AVAILABLE AS SHOWN IN FIG. 2 THE DIAGONAL BRACE RESTRAINT (DBR – ▩) MEMBERS ARE 2X4'S, THE ENDS OF WHICH ARE ATTACHED TO TOP & BOTTOM CHORDS. THE DIAGONAL BRACE MAY BE ATTACHED DIRECTLY TO THE CLB OR TO THE WEB OPPOSITE THE CLB. USE THE SAME NAILING SHOWN IN FIG. 3A.

FIG. 2

ANCHORAGE BY BUILDING DESIGNER (OTHER ANCHORAGE PROVISIONS FOR OTHER TYPES OF WALLS).

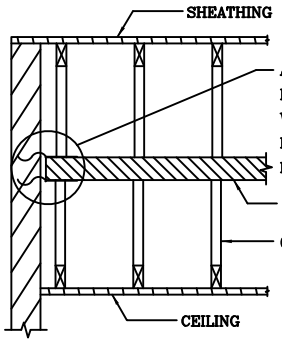


FIG. 3A

DIAGONAL BRACE RESTRAINT (DBR) WITHIN THE UNIT (3A & 3B)

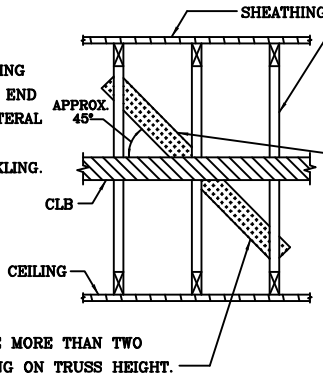
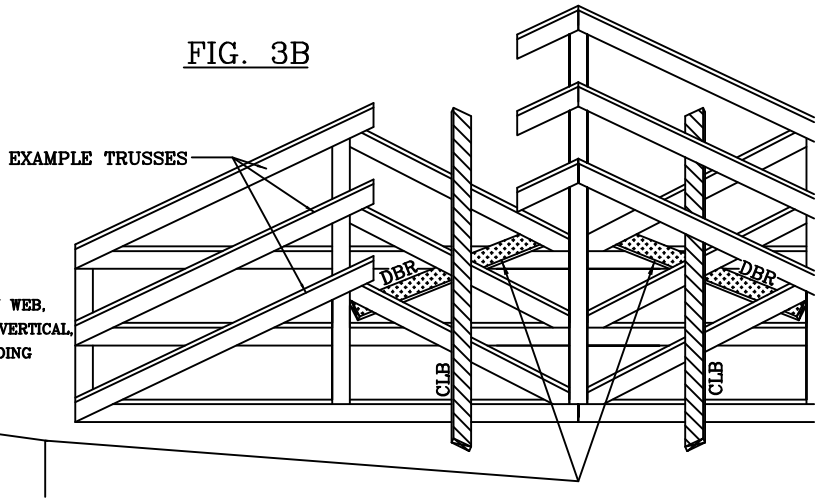


FIG. 3B



2X4 #3 OR STUD GRADE DBR NAILED TO OPPOSITE SIDE OF WEB AND REPEATED AT APPROXIMATELY 20 FOOT INTERVALS TO RESIST LATERAL MOVEMENT. ATTACH TO WEBS WITH (2) 16d COMMON (0.162" X 3.5",MIN) NAILS.

ITW Building Components Group Inc.

Earth City, MO 63045

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IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR.
ITW Building Components Group Inc. (ITWBCG) shall not be responsible for any deviation from this design, any failure to build the truss in conformance with TPI, or fabricating, handling, shipping, installing & bracing of trusses. ITWBCG connector plates are made of 20/18/16GA (W,H/S/K) ASTM A653 grade 37/40/60 (K/W/H,S) galv. steel. Apply plates to each face of truss, positioned as shown above and on Joint Details. A seal on this drawing or cover page indicates acceptance and professional engineering responsibility solely for the truss component design shown. The suitability and use of this component for any building is the responsibility of the Building Designer per ANST/TPI 1 Sec. 2.
ITW-BCG: www.itwbcg.com; TPI: www.tpinst.com; WTCA: www.sbcindustry.com; ICC: www.iccsafe.org

REF	BRACE RESTRAINT
DATE	1/1/09
DRWG	BRCLBANC0109

CLB WEB BRACE SUBSTITUTION

THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON A TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.

NOTES:

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE. FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE BRACING.

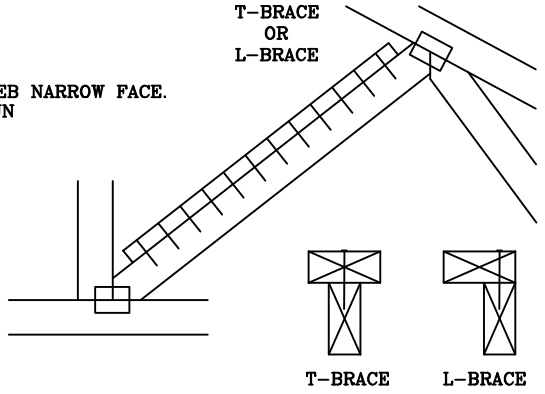
WEB MEMBER SIZE	SPECIFIED CLB BRACING	ALTERNATIVE BRACING T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

(*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

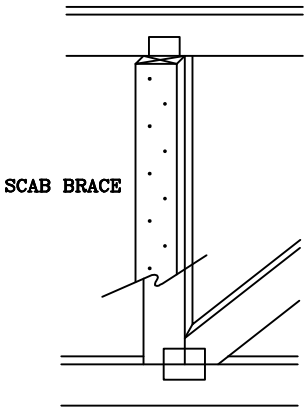
T-BRACING OR L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE.
ATTACH WITH 10d BOX OR GUN (0.128"x 3.",MIN) NAILS.
AT 6" O.C.
BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB.
NO MORE THAN (1) SCAB PER FACE.
ATTACH WITH 10d BOX OR GUN (0.128"x 3.",MIN) NAILS.
AT 6" O.C.
BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



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TC LL	PSF	
TC DL	PSF	
BC DL	PSF	
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

REF	CLB SUBST.
DATE	1/1/09
DRWG	BRCLBSUB0109

Piggyback Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

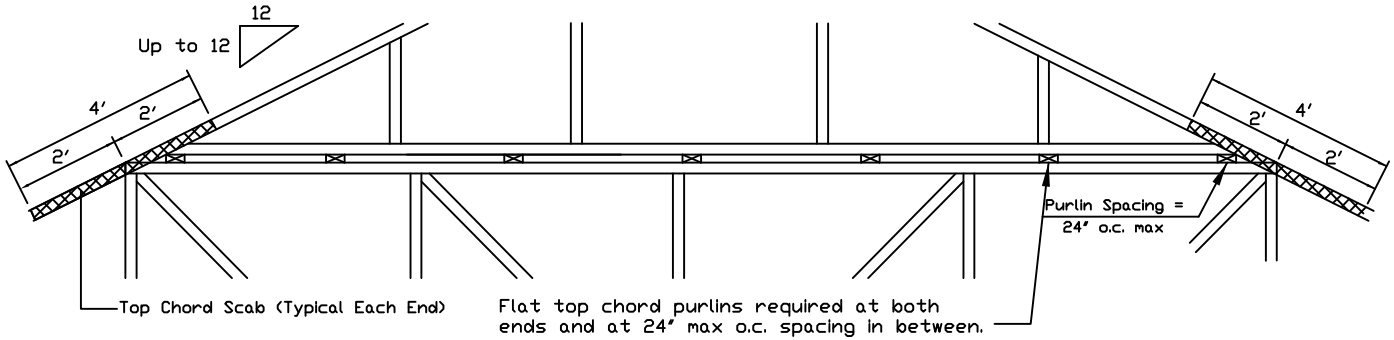
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Maximum truss spacing is 24" o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

** Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

Detail A : Purlin Spacing = 24" o.c. or less



Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

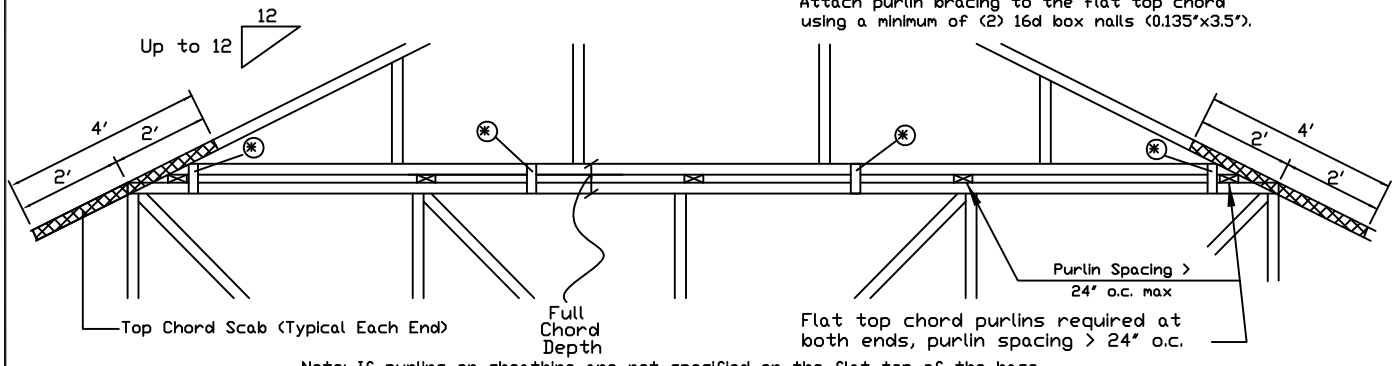
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120"x1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate plated to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note: Nailing thru holes of wave plate is acceptable.

Detail B : Purlin Spacing > 24" o.c.

Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4' o.c.

Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5").



Note: If purlins or sheathing are not specified on the flat top of the base truss, purlins must be installed at 24" o.c. max. and use Detail A.

* In addition, provide connection with one of the following methods:

Trulox
Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8' o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4' o.c. front to back faces.

APA Rated Gusset
8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8' o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4' o.c. front to back faces.

2x4 Vertical Scabs
2x4 SPF #2, full chord depth scabs (each face). Attach @ 8' o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4' o.c. front to back faces.

28PB Wave Piggyback Plate
One 28PB wave piggyback plate to each face @ 8' o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4' o.c. front to back faces.

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Earth City, MO 63045

SPACING 24.0"

REF	PIGGYBACK
DATE	2/14/12
DRWG	PB160100212

Scabbed Piggyback Detail

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

Maximum truss spacing is 24" o.c. Detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

* 2x4,2x6,2x8,2x10 or 2x12, #2 or #2 PT, SPF, Hem-Fir, or SP as needed. Attach scab to one face of truss with 16d (0.162"x3.5") common nails or 0.128"x3" gun nails @ 3" oc. throughout top chord.

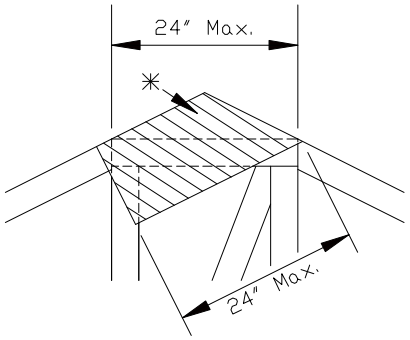
** Piggyback as per ITWBCG drawing. Attach to top chord of supporting truss using either the attachment specified on ITWBCG drawing or with gun nails (0.131"x3"gun nails) at:
8" oc. for ASCE 7-10, 160 mph, Enc. Bldg, Exp B & C, 30' MH
6" oc. for ASCE 7-10, 180 mph, Part. Enc. Bldg, Exp B, 30' MH
6" oc. for ASCE 7-10, 180 mph, Enc. Bldg, Exp C, 30' MH
4" oc. for ASCE 7-10, 180 mph, Part. Enc. Bldg, Exp C, 30' MH

*** Toenail block to top chord with 0.128"x3" gun nails @ 4" oc from each face throughout top chord.

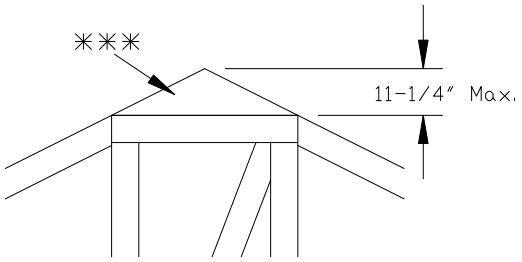
++ Detail valid only for full overlap of piggyback chord as shown.

\+ Continuous Lateral Bracing (CLB) as specified on the supporting truss ITWBGC drawing or at 24" o.c. if not specified. Attach to each supporting truss with (2) 16d (0.162"x3.5") common nails. Bracing material to be supplied and attached at both ends to a suitable support by erection contractor.

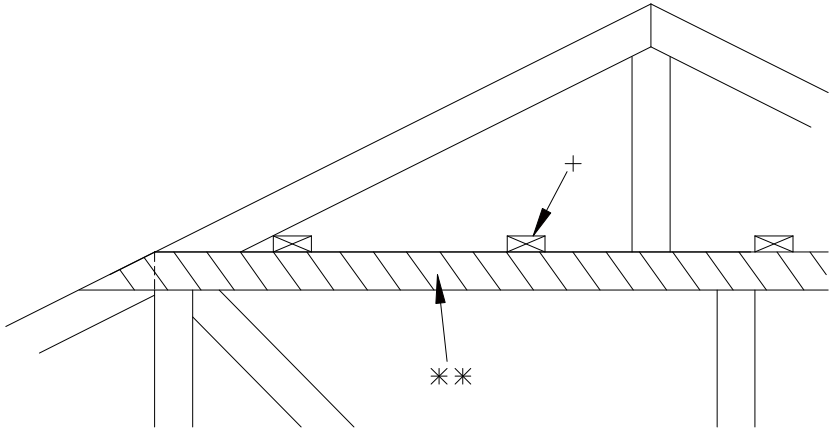
\+ CLB lumber: 2x4 or 2x6 #2 or #2 PT, SPF, Hem-Fir, or SP. CLB may be applied to top edge of supporting truss top chord (as shown) or bottom edge of supporting truss top chord.

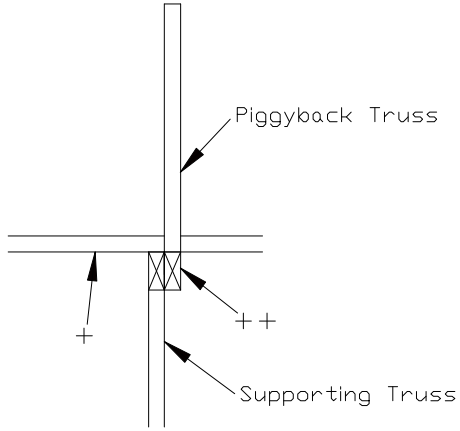


Scab Detail



Top Chord Block Detail





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Earth City, MO 63045

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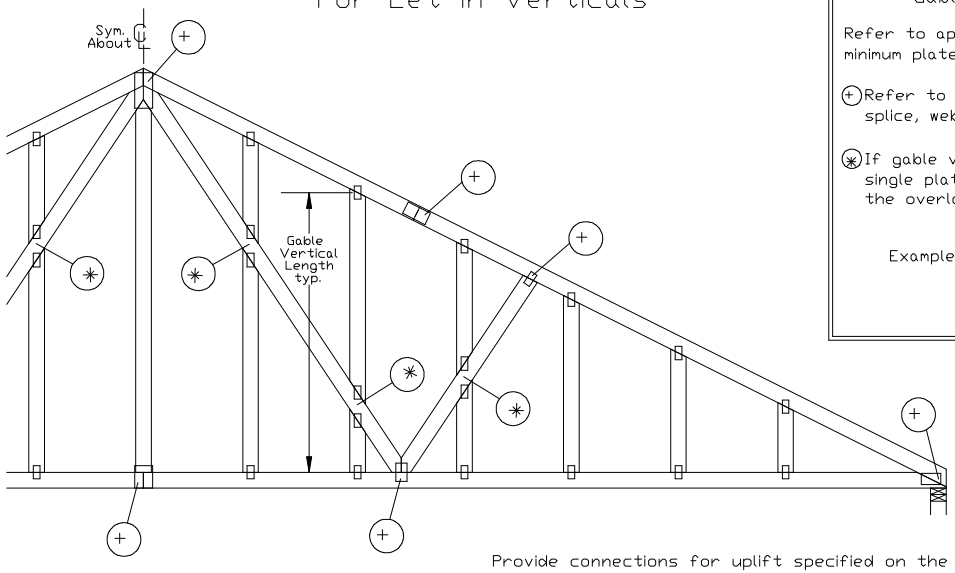
MAX. TOT. LD.	55 PSF
DUR. FAC.	1.25
SPACING	24.0"

REF	PIGGYBACK SCAB
DATE	2/14/12
DRWG	PBSCAB100212

Gable Detail
For Let-in Verticals



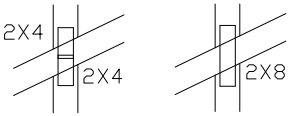
Gable Truss Plate Sizes

Refer to appropriate ITW gable detail for minimum plate sizes for vertical studs.

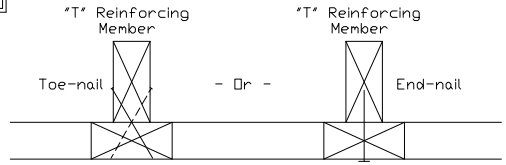
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

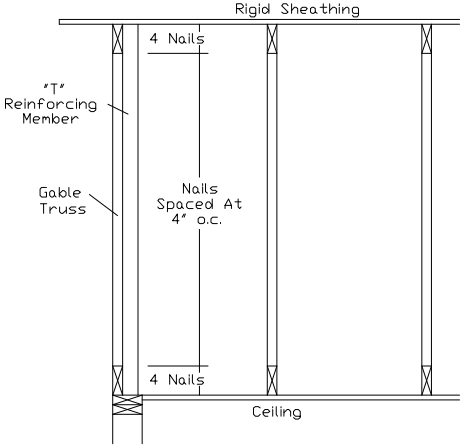
⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



"T" Reinforcement Attachment Detail





Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with

End Driven Nails:
10d Common (0.148"x 3.",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate ITW gable detail for ASCE wind load.

ASCE 7-98 Gable Detail Drawings
A13015980109, A12015980109, A11015980109, A10015980109,
A13030980109, A12030980109, A11030980109, A10030980109

ASCE 7-02 Gable Detail Drawings
A13015020109, A12015020109, A11015020109, A10015020109, A14015020109,
A13030020109, A12030020109, A11030020109, A10030020109, A14030020109

ASCE 7-05 Gable Detail Drawings
A13015050109, A12015050109, A11015050109, A10015050109, A14015050109,
A13030050109, A12030050109, A11030050109, A10030050109, A14030050109

ASCE 7-10 Gable Detail Drawings
A11515ENC100212, A12015ENC100212, A14015ENC100212, A16015ENC100212,
A18015ENC100212, A20015ENC100212, A20015END100212, A20015PED100212,
A11530ENC100212, A12030ENC100212, A14030ENC100212, A16030ENC100212,
A18030ENC100212, A20030ENC100212, A20030END100212, A20030PED100212

See appropriate ITW gable detail for maximum unreinforced gable vertical length.

To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate ITW gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24"o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

Building Components Group Inc.

Earth City, MO 63045

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MAX. TOT. LD. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF LET-IN VERT
DATE 2/16/12
DRWG GBLLETIN0212

Valley Detail - ASCE 7-10: 180 mph, 30' Mean Height, Partially Enclosed, Exp. C, Kzt=1.00

Top Chord 2x4 SP #2N, SPF #1/#2, DF-L #2 or better.
Bot Chord 2x4 SP #2N or SPF #1/#2 or better.
Webs 2x4 SP #3, SPF #1/#2, DF-L #2 or better.

** Attach each valley to every supporting truss with:
560# connection or with (1) ITWBCG HA4
or HA2.5 connector or equivalent for
ASCE 7-10 180 mph. 30' Mean Height, Part. Enc.
Building, Exp. C, Wind TC DL=5 psf, Kzt = 1.00
Or
ASCE 7-10 160 mph. 30' Mean Height, Part. Enc.
Building, Exp. D, Wind TC DL=5 psf, Kzt = 1.00

Unless specified on engineer's sealed design, apply 1x4 "T" brace, 80% length of web, same species and SRB grade or better, attached with 8d box (0.113" x 2.5") nails at 6" o.c., or continuous lateral bracing, equally spaced, for vertical valley webs greater than 7'-9".

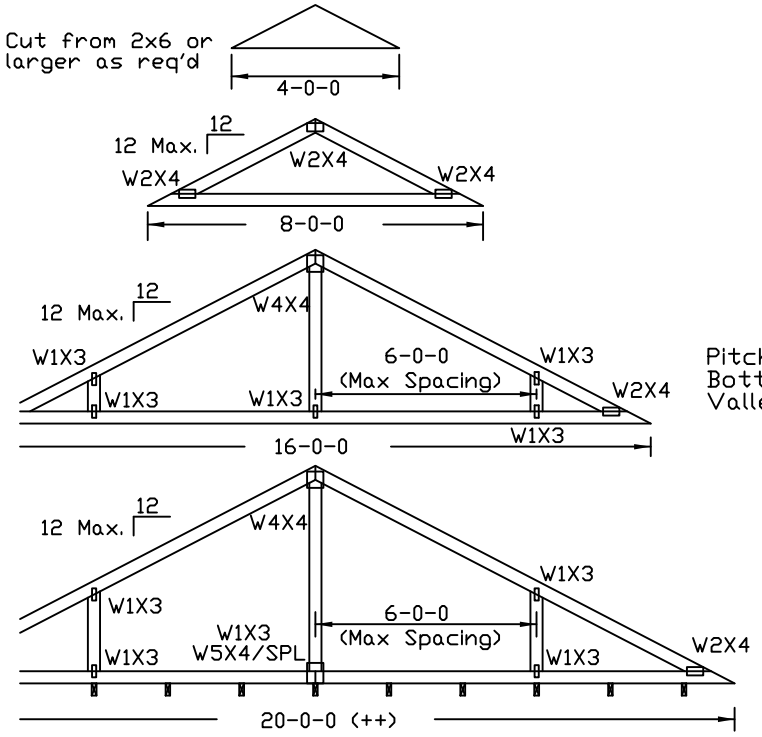
For verticals over 10'-0" tall, apply (2) 1x4 "T" braces, 80% length of web, same species and SRB grade or better, attached with 8d box (0.113" x 2.5") nails @ 6" o.c.

Top chord of truss beneath valley set must be braced with:
properly attached, rated sheathing applied prior to valley truss installation.
Or
Purlins at 24" o.c. or as otherwise specified on Engineer's sealed design.
Or
By valley trusses used in lieu of purlin spacing as specified on Engineer's sealed design.

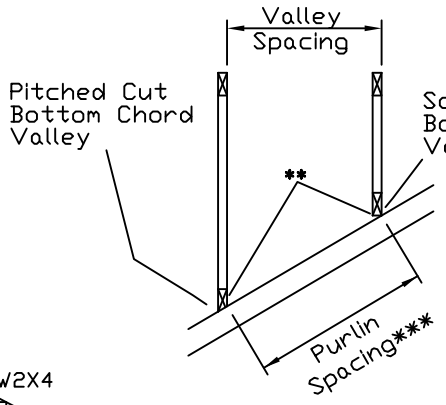
*** Note that the purlin spacing for bracing the top chord of the truss beneath the valley is measured along the slope of the top chord.

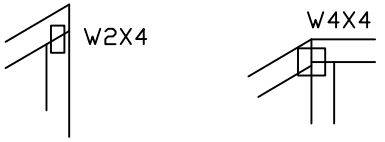
++ Larger spans may be built as long as the vertical height does not exceed 14'-0".

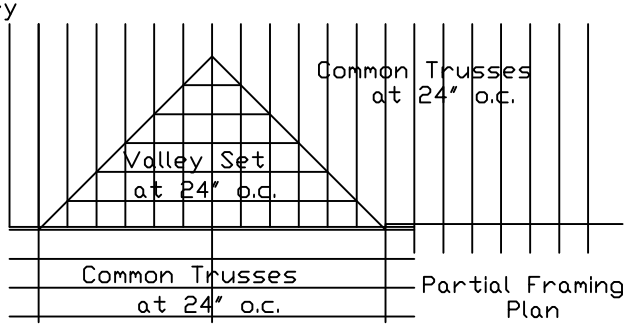
Bottom chord may be square or pitched cut as shown.



Supporting trusses at 24" o.c. maximum spacing.







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Earth City, MO 63045

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TC LL	30	30	40	PSF
TC DL	20	15	7	PSF
BC DL	10	10	10	PSF
BC LL	0	0	0	PSF
TOT. LD.	60	55	57	PSF
DUR.FAC.	1.25/1.33	1.15	1.15	
SPACING		24.0"		

REF	VALLEY DETAIL
DATE	2/16/12
DRWG	VAL180100212

Gable Stud Reinforcement Detail for Stucco Cladding

ASCE 7-10: 160 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 140 MPH Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
Or: 140 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00
Or: 120 mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
				Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" o.c.	SPF HF	#1 / #2	3' 2"	5' 6"	5' 8"	6' 5"	6' 8"	7' 8"	8' 0"	10' 1"	10' 6"	12' 0"	12' 6"
		#3	3' 1"	5' 5"	5' 7"	6' 4"	6' 7"	7' 7"	7' 11"	10' 0"	10' 4"	11' 11"	12' 5"
		Stud	3' 1"	5' 4"	5' 7"	6' 4"	6' 7"	7' 7"	7' 11"	10' 0"	10' 4"	11' 11"	12' 5"
		Standard	3' 1"	4' 7"	4' 11"	6' 2"	6' 7"	7' 7"	7' 11"	9' 8"	10' 4"	11' 11"	12' 5"
	SP DFL	#1	3' 4"	5' 6"	5' 9"	6' 6"	6' 9"	7' 9"	8' 1"	10' 3"	10' 8"	12' 2"	12' 8"
		#2	3' 2"	5' 6"	5' 8"	6' 5"	6' 8"	7' 8"	8' 0"	10' 1"	10' 6"	12' 0"	12' 6"
		#3	3' 2"	4' 10"	5' 2"	6' 5"	6' 8"	7' 8"	7' 11"	10' 1"	10' 5"	12' 0"	12' 5"
		Stud	3' 2"	4' 10"	5' 2"	6' 5"	6' 8"	7' 8"	7' 11"	10' 1"	10' 5"	12' 0"	12' 5"
		Standard	3' 1"	4' 3"	4' 7"	5' 8"	6' 1"	7' 7"	7' 11"	8' 11"	9' 7"	11' 11"	12' 5"
16" o.c.	SPF HF	#1 / #2	3' 8"	6' 3"	6' 6"	7' 5"	7' 8"	8' 9"	9' 2"	11' 7"	12' 0"	13' 9"	14' 0"
		#3	3' 6"	6' 2"	6' 6"	7' 3"	7' 7"	8' 8"	9' 1"	11' 5"	11' 11"	13' 7"	14' 0"
		Stud	3' 6"	6' 2"	6' 5"	7' 3"	7' 7"	8' 8"	9' 1"	11' 5"	11' 11"	13' 7"	14' 0"
		Standard	3' 6"	5' 8"	6' 0"	7' 3"	7' 7"	8' 8"	9' 1"	11' 5"	11' 11"	13' 7"	14' 0"
	SP DFL	#1	3' 10"	6' 4"	6' 7"	7' 6"	7' 9"	8' 11"	9' 3"	11' 9"	12' 2"	13' 11"	14' 0"
		#2	3' 8"	6' 3"	6' 6"	7' 5"	7' 8"	8' 9"	9' 2"	11' 7"	12' 0"	13' 9"	14' 0"
		#3	3' 7"	5' 11"	6' 4"	7' 4"	7' 7"	8' 9"	9' 1"	11' 6"	11' 11"	13' 8"	14' 0"
		Stud	3' 7"	5' 11"	6' 4"	7' 4"	7' 7"	8' 9"	9' 1"	11' 6"	11' 11"	13' 8"	14' 0"
		Standard	3' 6"	5' 3"	5' 7"	7' 0"	7' 6"	8' 8"	9' 1"	11' 0"	11' 9"	13' 7"	14' 0"
12" o.c.	SPF HF	#1 / #2	4' 1"	6' 11"	7' 2"	8' 2"	8' 5"	8' 9"	10' 1"	12' 9"	13' 3"	14' 0"	14' 0"
		#3	3' 10"	6' 9"	7' 0"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"
		Stud	3' 10"	6' 9"	7' 0"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"
		Standard	3' 10"	6' 6"	6' 11"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"
	SP DFL	#1	4' 3"	7' 0"	7' 3"	8' 3"	8' 6"	9' 9"	10' 2"	12' 11"	13' 5"	14' 0"	14' 0"
		#2	4' 1"	6' 11"	7' 2"	8' 2"	8' 5"	9' 8"	10' 1"	12' 9"	13' 3"	14' 0"	14' 0"
		#3	3' 11"	6' 10"	7' 1"	8' 1"	8' 5"	9' 7"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
		Stud	3' 11"	6' 10"	7' 1"	8' 1"	8' 5"	9' 7"	10' 0"	12' 8"	13' 2"	14' 0"	14' 0"
		Standard	3' 10"	6' 1"	6' 5"	8' 0"	8' 4"	9' 7"	9' 11"	12' 7"	13' 1"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard

Douglas Fir-Larch	Southern Pine***
#3	#3
Stud	Stud
Standard	Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch	Southern Pine***
#1	#1
#2	#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/360.

Provide uplift connections for 135 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

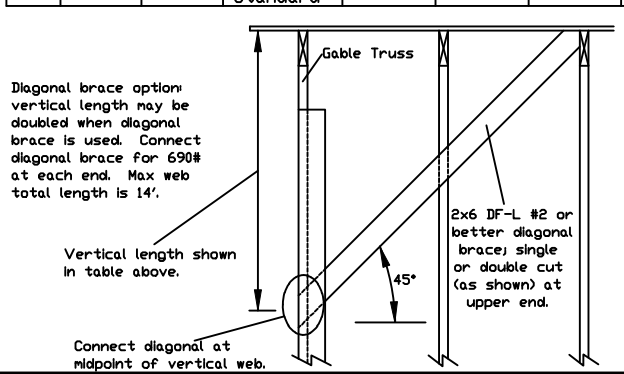
Attach 'L' braces with 10d (0.128"x3.0" min) nails.

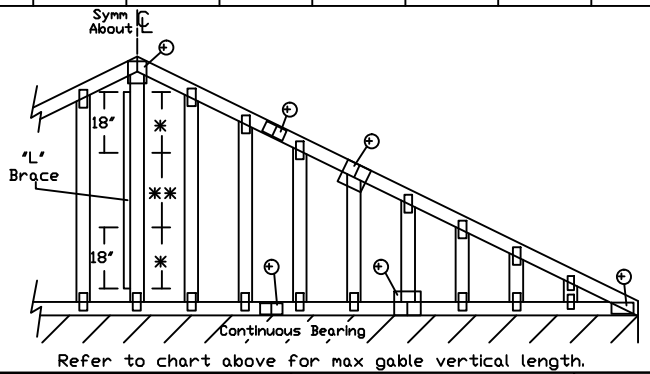
* For (1) 'L' brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) 'L' braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

'L' bracing must be a minimum of 80% of web member length.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 690# at each end. Max web total length is 14'.





Refer to chart above for max gable vertical length.

Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	2X4
Greater than 4' 0", but less than 12' 0"	4X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

ALPINE AN ITW COMPANY
13723 Riverport Drive
Suite 200
Maryland Heights, MO 63043

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MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-10-GAB16030
DATE 8/3/15
DRWG S16030ENC100815