

STRUCTURAL DESIGN ENCLOSED BUILDING

MAXIMUM 30'- 0" WIDE X 14'- 0" HEIGHT-BOX EAVE FRAME AND BOW FRAME

22 November 2024 Revision 11 M&A Project No. 17062S/17174S/17254S/18033S/18113S/18246S/19309S/22257S/23335S

Prepared for:

Newmart Builders 1000 Cycle Lane South Hill, VA 23970

Prepared by:

Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

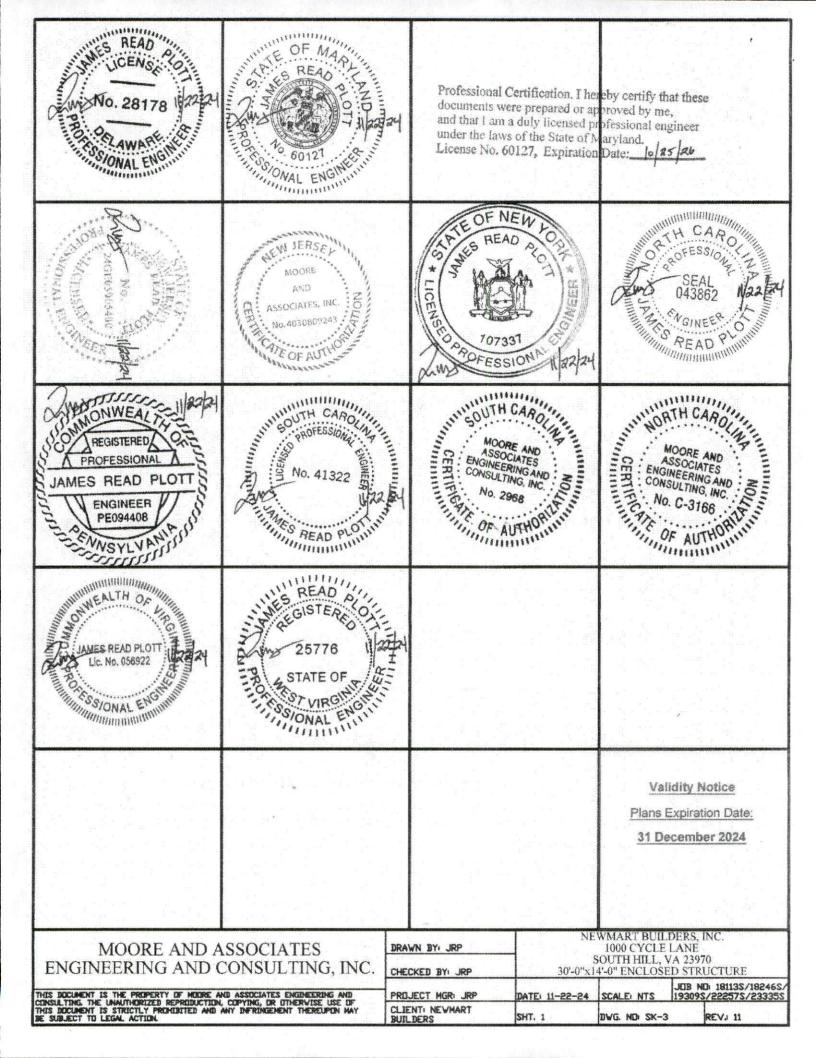
401 S. Main Street, Suite 200 Mount Airy, NC 27030



Validity Notice

Plans Expiration Date: 31 December 2024
Plans are valid for one year from issuance date

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DRAWING INDEX

SHEET	1	PE SEAL COVER SHEET
SHEET	2	DRAWING INDEX
SHEET	3	INSTALLATION NOTES AND SPECIFICATIONS
SHEET	3A	LIST OF APPLICABLE BUILDING CODES
SHEET	4	TYPICAL SIDE AND END ELEVATIONS
SHEET	5	TYPICAL INTERIOR RAFTER/COLUMN AND SIDE FRAMING SECTIONS (BOX EAVE RAFTER)
SHEET	6	24'-0" (W < 30'-0" MAXIMUM RAFTER SPAN (BOX EAVE RAFTER)
SHEET	6A	W < 24'-0" MAXIMUM RAFTER SPAN (BOX EAVE RAFTER)
SHEET	7	TYPICAL INTERIOR RAFTER/COLUMN AND SIDE FRAMING SECTIONS (BOW RAFTER)
SHEET	8	24'-0" (W < 30'-0" MAXIMUM RAFTER SPAN (BOW RAFTER)
SHEET	84	W < 24'-0" MAXIMUM RAFTER SPAN (BOW RAFTER)
SHEET	9	BASE RAIL ANCHORAGE OPTIONS
SHEET	9A	BASE RAIL ANCHORAGE OPTION
SHEET	10	BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS
SHEET		BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS
SHEET	12	CONNECTION DETAILS
SHEET		CONNECTION DETAILS
SHEET	14	BOX EAVE RAFTER LEAN-TO OPTION
SHEET		BOW RAFTER LEAN-TO OPTION
SHEET		BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION
SHEET		SIDE WALL HEADER OPTIONS
SHEET	# 10 E 2	END WALL HEADER OPTIONS
SHEET	18	ADDITIONAL BASE RAIL ANCHORAGE OPTION

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ENGINEERING AND CONSULTING, INC.	CHECKED BY: JRP		SOUTH HILL, 14'-0" ENCLOSI		ACCOUNT OF THE PARTY OF THE PAR
MOORE AND ASSOCIATES	DRAWN BY: JRP		EWMART BUIL 1000 CYCLE	LANE	

INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 14'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH ALL THE APPLICABLE BUILDING CODES LISTED ON SHEET 3A.
- 3. DESIGN LUADS ARE AS FOLLOWS:

A) ROOF DEAD LOADS

SELF-WEIGHT = 1.5 PSF MEP = 0 PSF

B) ROOF LIVE LOAD = 12 PSF

C) FLOOR LIVE LOAD = 100 PSF (4" CONCRETE SLAB-ON-GRADE)

D) GROUND SNOW LOAD = 30 PSF (W \leq 24'-0")

= 35 PSF (18'-0" < W ≤ 30'-0"),

= 45 PSF @ 4'-0' D.C. MAX. RAFTER/COLUMN AND END COLUMN SPACING (24'-0' (W < 30'-0')

@ 5'-0" D.C. MAX. RAFTER/COLUMN AND END COLUMN SPACING (W < 24'-0")

NOTE: UNBALANCED LOADING DUE TO SNOW DRIFTING FROM AN ADJACENT TALLER STRUCTURE HAS NOT BEEN EVALUATED.

- 4. 3-SECOND GUST ULTIMATE WIND SPEED (LW) 105 TO 130 MPH (NOMINAL WIND SPEED 81 TO 101 MPH).
- 5. MAXIMUM RAFTER/POST AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
- 6. END WALL COLUMNS (POST) ARE SIMILAR TO SIDE WALL COLUMNS (POSTS) IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
- 7. RISK CATEGORY I (NOT FOR HUMAN OCCUPANCY).
- 8. WIND EXPOSURE CATEGORY B.
- 9. STRUCTURAL ANALYSIS/DESIGN IS BASED ON TS MEETING THE REQUIREMENTS OF ASTM A653 GRADE 50 WITH MINIMUM YIELD STRENGTH (Fy) OF 54 KSI AND GALVANIZING MEETING THE MINIMUM REQUIREMENTS OF G60.
- 10. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2"x3"-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS FOR (24'-0" < W \(\) 30'-0" AND W \(\) 24'-0" WITH EAVE HEIGHT 12'-0" \(\) TO \(\) 14'-0" \(\) 2 1/4"x2 1/4"-14 GAUGE TUBE STEEL (TS) FOR (W \(\) 24'-0") (UNLESS NOTED DIHERWISE).
- 11. CONNECTOR SLEEVES ARE MINIMUM 8" LONG, TS 1 3/4"×2 3/4"-14 GAUGE FOR 2"x3"-14 GAUGE AND TS 2"x2"-14 GAUGE FOR 2 1/4"×2 1/4"-14 GAUGE FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 12. AVERAGE FASTENER SPACING ON-CENTERS = 10" D.C. (MAX.).
- 13. FASTENERS CONSIST OF 1/4*x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS.

 SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14" (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY.
- 14. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL AT OR WITHIN 6" OF EVERY COLUMN.
- 15. STANDARD GROUND ANCHORS (SDIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT/FORMED HEAD x 30" LONG AND MAY BE USED IN SUITABLE SDILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SDILS AND MUST BE USED IN UNSUITABLE SDILS AS NOTED.
- 16. CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE AND FOUNDATION ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND, THEREFORE, REQUIRE ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION.
- 17. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:

SOIL SITE CLASS = D RISK CATEGORY I

R= 3.25 I_E = 1.0

 $S_{DS} = 2.625 g$ $V = C_S W$

 $S_{D1} = 2.13 g$

- 18. IF MORE THAN 50% OF COLUMNS (LEGS) ARE REMOVED IN ANY LONGITUDINAL (SIDE) WALLS OF A BUILDING, THE ENGINEER IS TO BE NOTIFIED TO DETERMINE WHETHER PORTAL FRAMES OR OTHER LONGITUDINAL STABILITY ELEMENTS WILL BE REQUIRED.
- 19. THIS MASTER DESIGN IS A GENERIC MASTER DESIGN PRIMARILY INTENDED FOR PLANT FABRICATION AND ERECTION AKIN TO SHOP DRAWINGS. THE MASTER DESIGN IS NOT PROMARILY INTENDED FOR CONSTRUCTION PERMIT, WHEN APPLYING FOR BUILDING PERMIT, THE CERTIFIED BUILDING OFFICIAL MUST BE CONSULTED TO VERIFY WHETHER THE USE OF THE MASTER DESIGN IS ADEQUATE OR IF A SITE-SPECIFIC DESIGN IS REQUIRED FOR BUILDING PERMIT. ANY VARIATION FROM THE ANALYSIS/DESIGN PARAMETERS OF THE MASTER DESIGN REQUIRES THE DEVELOPMENT OF A SITE-SPECIFIC DESIGN.

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Plans Expiration Date:

31 December 2024

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ENGINEERING AND CONSULTING, INC.	

AND PR

NEWMART BUILDERS, INC.

1000 CYCLE LANE
SOUTH HILL, VA 23970
CHECKED BY: JRP
30'-0"x14'-0" ENCLOSED STRUCTURE

PROJECT MGRI JRP DATE: 11-22-24 SCALE: NTS 19:
CLIENT: NEWMART
BUILDERS SHT. 3 DVG. ND: SK-3

JUB ND 18113S/18246S/ 19309S/22257S/23335S 3 REV. 11

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LIST OF APPLICABLE BUILDING CODES

2021 INTERNATIONAL BUILDING CODE (IBC 2021)

2018 INTERNATIONAL BUILDING CODE (IBC 2018)

2015 INTERNATIONAL BUILDING CODE (IBC 2015)

2012 INTERNATIONAL BUILDING CODE (IBC 2012)

2009 INTERNATIONAL BUILDING CODE (IBC 2009)

2006 INTERNATIONAL BUILDING CODE (IBC 2006)

DELAWARE BUILDING CODE (IBC 2012, IBC 2015, IBC 2018 (DEPENDENT UPON LOCAL JURISDICTION))

BUILDING CODE 2018 OF MARYLAND (ADDPTS THE IBC 2018 WITH AMENDMENTS)

BUILDING CODE 2021 OF NEW JERSEY (ADOPTS THE IBC 2021 WITH AMENDMENTS)

2020 BUILDING CODE OF NEW YORK STATE (ADOPTS THE IBC 2018 WITH AMENDMENTS)

2018 NORTH CAROLINA BUILDING CODE (ADOPTS THE IBC 2015 WITH AMENDMENTS)

BUILDING CODE 2018 OF PENNSYLVANIA (ADDPTS THE IBC 2018 WITH AMENDMENTS) PHILADELPHIA BUILDING CODE (ADDPTS THE IBC 2018 WITH AMENDMENTS)

2018 SOUTH CAROLINA BUILDING CODE (ADDPTS THE IBC 2018 WITH AMENDMENTS)

2018 VIRGINIA CONSTRUCTION CODE (ADDPTS THE IBC 2018 WITH AMENDMENTS)

BUILDING CODE 2018 OF WEST VIRGINIA (ADOPTS THE IBC 2018 WITH AMENDMENTS)

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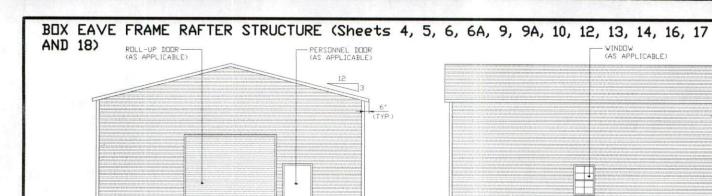
NEWMART BUILDERS, INC. 1000 CYCLE LANE SOUTH HILL, VA 23970 30'-0"x14'-0" ENCLOSED STRUCTURE

PROJECT MGRI JRP DATE: 11-22-24 CLIENTI NEWMART BUILDERS

SCALE: NTS

JOB NO: 181135/182465/ 19309\$/22257\$/23335\$

SHT. 3A DWG. NO: SK-3 REV. 11

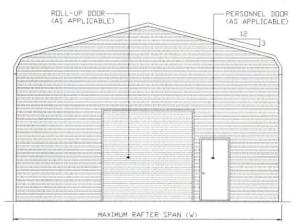


TYPICAL END ELEVATION

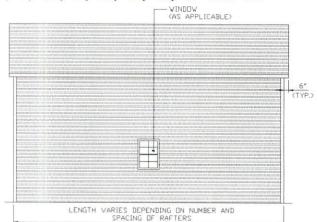
TYPICAL SIDE ELEVATION

SCALE: 1

BOW FRAME RAFTER STRUCTURE (Sheets 4, 7, 8, 8A, 9, 9A, 11, 12, 13, 15, 17 AND 18)



TYPICAL END ELEVATION



TYPICAL SIDE ELEVATION

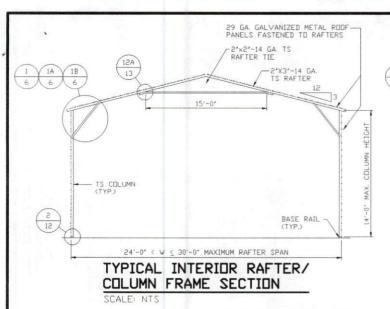
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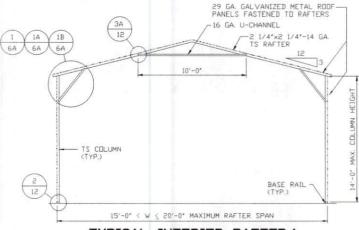
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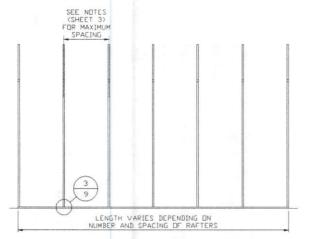
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PROJECT MGR: JRP	DATE: 11-22-24	SCALE: NTS		ID: 18113\$/18246\$/ \$/22257\$/23335\$		
CLIENT: NEWMART	SHT. 4	DWG. NO: SK-3		REV. 11		

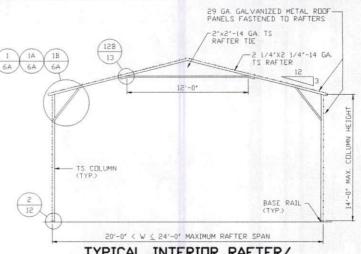




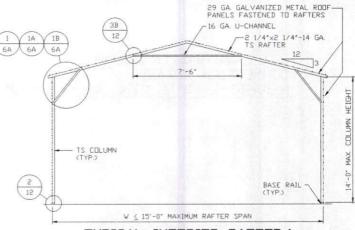
TYPICAL INTERIOR RAFTER/ COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



TYPICAL INTERIOR RAFTER/ COLUMN FRAME SECTION



TYPICAL INTERIOR RAFTER/ COLUMN FRAME SECTION

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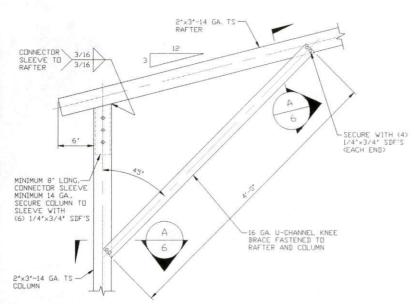
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DDG (FOT 145D 10D			JOB NO 181135/			
CHECKED BY: JRP			ED STRUCTURE			
DRAWN BY: JRP		1000 CYCLE LANE SOUTH HILL, VA 23970				
	NE	WMART BUIL				
			THE RESERVE OF THE PERSON NAMED IN COLUMN			

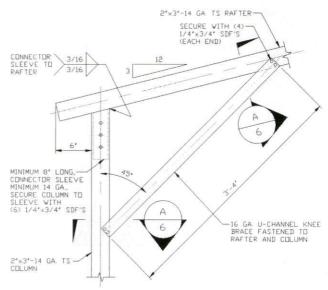
182465 19309\$/22257\$/23335\$ PROJECT MGR: JRP DATE: 11-22-24 SCALE: NTS CLIENT: NEWMART SHT. 5 DWG. NO SK-3 BUILDERS

REV. 11

24'-0" < W ≤ 30'-0" MAXIMUM RAFTER SPAN



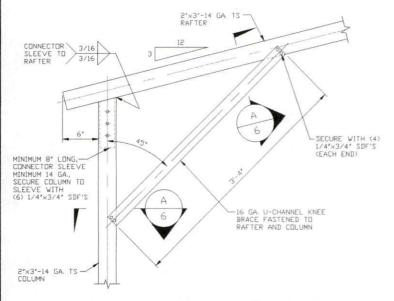
BOX EAVE RAFTER COLUMN
CONNECTION DETAIL
HEIGHTS 12'-0" < TO < 14'-0" @ 3'-0" D.C.



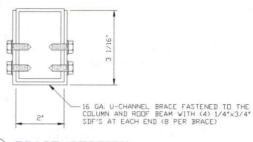
BOX EAVE RAFTER COLUMN CONNECTION DETAIL

HEIGHTS & 10'-0' @ 3'-6' D.C.

SCALE: NTS



BOX EAVE RAFTER COLUMN
CONNECTION DETAIL
HEIGHTS 10'-0' < TO < 12'-0' @ 3'-6' O.C.



A BRACE SECTION
SCALE: NTS

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NEWMART BUILDERS, INC.

1000 CYCLE LANE
SOUTH HILL, VA 23970
30'-0"x14'-0" ENCLOSED STRUCTURE

JUB ND: 18113S/18246S/

PROJECT MGR: JRP DATE: 11-22-24 SCALE: NTS 19309S/22257S/23335S

CLIENT: NEWMART SHT. 6 DWG. ND: SK-3 REV.: 11

W≤24'-0" MAXIMUM RAFTER SPAN | CONNECTOR 3/16 | SECURE WITH (4) | SECURE COLUMN TO SLEEVE MINIMUM 8' LDNG. SECURE COLUMN TO SLEEVE WITH (6) 1/4'x3/4' SDF'S | SECURE COLUMN TO SLEEVE WITH (6) 1/4'x3/4' SDF'S | SECURE COLUMN TO SLEEVE WITH (6) 1/4'x3/4' SDF'S | SECURE COLUMN TO SLEEVE WITH (6) 1/4'x3/4' SDF'S | SECURE COLUMN TO SLEEVE WITH (6) 1/4'x3/4' SDF'S | SECURE WITH

CONNECTOR 3/16
SLEEVE TO 3/16
RAFTER

MINIMUM 8' LONG,
CONNECTOR SLEEVE
MINIMUM 14 GA,
SECURE COLLUMN TO
SLEEVE WITH
(6) 1/4'×3/4' SDF'S

6A

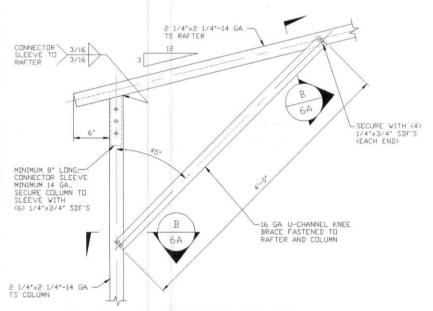
B

6A

BOX EAVE RAFTER COLUMN CONNECTION DETAIL HEIGHTS 12'-0" < TO < 14'-0" @ 3'-6" O.C.

1

SCALE: NTS (3'-0" D.C. SPACING FOR WIND SPEEDS = 105 MPH (TO < 130 MPH)

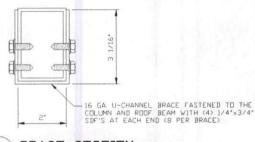


BOX EAVE RAFTER COLUMN
CONNECTION DETAIL

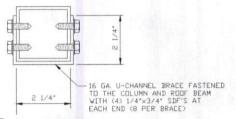
HEIGHTS 10'-0' < TO < 12'-0' @ 3'-0' O.C.

SCALE: NTS
(2'-6' O.C. SPACING FOR WIND SPEEDS = 105 MPH < TO < 130 MPH)

BOX EAVE RAFTER COLUMN CONNECTION DETAIL HEIGHTS & 10'-0" @ 4'-0" D.C.



A BRACE SECTION



B BRACE SECTION

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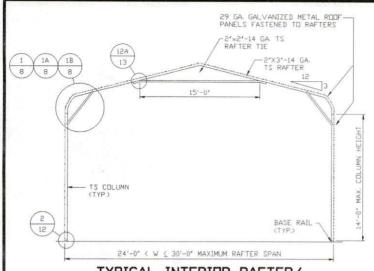
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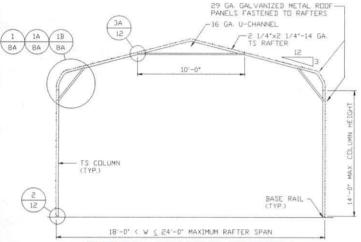
NEWMART BUILDERS, INC. 1000 CYCLE LANE SOUTH HILL, VA 23970 30'-0"x14'-0" ENCLOSED STRUCTURE

PROJECT MGR: JRP DATE: 11-22-24 SCALE: NTS 19309S/22257S/23335S

CLIENT: NEVMART BUILDERS SHT. 6A DWG. ND: SK-3 REV.: 11

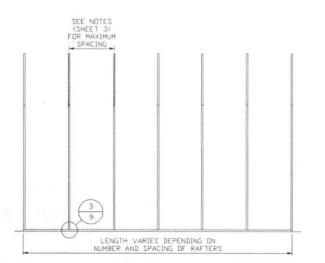


TYPICAL INTERIOR RAFTER/ COLUMN FRAME SECTION



TYPICAL INTERIOR RAFTER/ COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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NEWMART BUILDERS, INC. 1000 CYCLE LANE SOUTH HILL, VA 23970

PROJECT MGR: JRP CLIENT: NEWMART BUILDERS

DATE: 11-22-24 SHT. 7

JUB ND 18113\$/18246\$/ 19309\$/22257\$/23335\$ SCALE: NTS

TYPICAL INTERIOR RAFTER/ COLUMN FRAME SECTION

18'-0" < W ≤ 24'-0" MAXIMUM RAFTER SPAN

29 GA. GALVANIZED METAL ROOF PANELS FASTENED TO RAFTERS

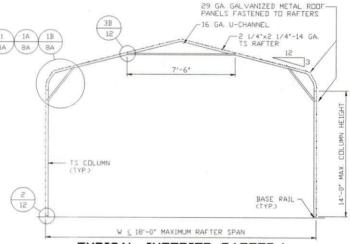
2 1/4"X2 1/4"-14 GA. TS RAFTER

BASE RAIL

COLL

MAX.

2'x2'-14 GA. TS RAFTER TIE



TYPICAL INTERIOR RAFTER/ COLUMN FRAME SECTION

TS COLUMN

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30'-0"x14'-0" ENCLOSED STRUCTURE

DWG. ND: SK-3

REV. 11

24'-0" < W \le 30'-0" MAXIMUM RAFTER SPAN A 8 SECURE WITH (4) 1/4"x3/4" SDF'S (EACH END) MINIMUM 8' LONG,— CONNECTOR SLEEVE MINIMUM 14 GA., SECURE COLUMN TO SLEEVE WITH (4) 1/4'x3/4' SDF'S MINIMUM B' LONG,— CONNECTOR SLEEVE MINIMUM 14 GA., SECURE COLUMN TO SLEEVE WITH (4) 1/4"x3/4" SDF'S -16 GA. U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN 8 2"x3"-14 GA. TS COLUMN

-2'x3'-14 GA. TS COLUMN BOW RAFTER COLUMN CONNECTION DETAIL HEIGHTS < 10'-0" @ 3'-6" □.C. 1B

A

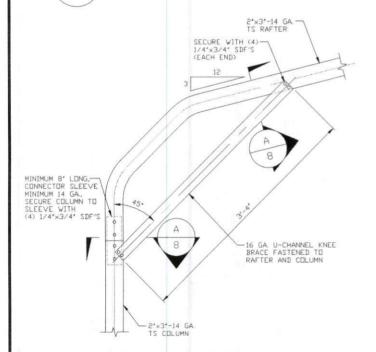
8

SECURE WITH (4)-1/4"x3/4" SDF'S (EACH END)

A 8

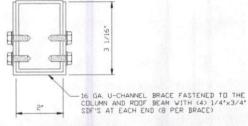
16 GA. U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN

BOW RAFTER COLUMN CONNECTION DETAIL HEIGHTS 12'-0" < T□ < 14'-0" @ 3'-0" □.C.



1

BOW EAVE RAFTER COLUMN CONNECTION DETAIL HEIGHTS 10'-0" < T□ < 12'-0" @ 3'-6" □.C. 1A SCALE: NTS



BRACE SECTION

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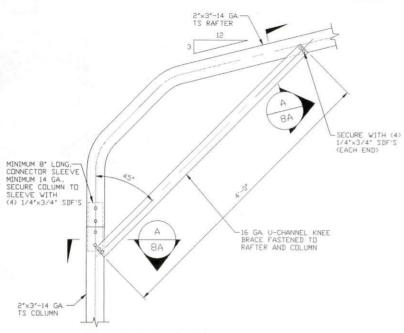
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NEWMART BUILDERS, INC. 1000 CYCLE LANE SOUTH HILL, VA 23970 30'-0"x14'-0" ENCLOSED STRUCTURE

JUB ND 18113\$/18246\$/ 19309\$/22257\$/23335\$ PROJECT MGR: JRP DATE: 11-22-24 SCALE: NTS CLIENT: NEWMART DWG. ND SK-3 **REV.** 11 SHT. 8 BUILDERS

W ≤ 24'-0" MAXIMUM RAFTER SPAN



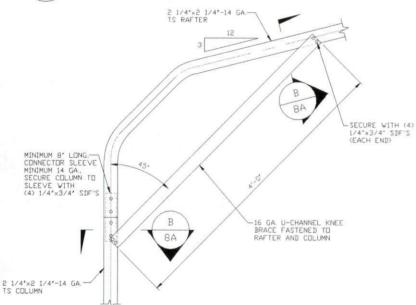
BOW RAFTER COLUMN CONNECTION DETAIL

1

1A

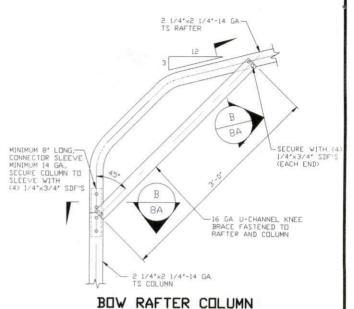
HEIGHTS 12'-0" < T□ < 14'-0" @ 3'-6" □.C.

(3'-0" D.C. SPACING FOR WIND SPEEDS = 105 MPH < TO < 130 MPH)



BOW EAVE RAFTER COLUMN CONNECTION DETAIL HEIGHTS 10'-0' < T□ < 12'-0' @ 3'-0' □.C.

(2'-6' D.C. SPACING FOR WIND SPEEDS = 105 MPH (TO < 130 MPH)



CONNECTION DETAIL HEIGHTS ≤ 10'-0" @ 4'-0" □.C. 1B

16 GA. U-CHANNEL BRACE FASTENED TO THE COLUMN AND ROOF BEAM WITH (4) 1/4'x3/4" SDF'S AT EACH END (8 PER BRACE) BRACE SECTION

-16 GA. U-CHANNEL BRACE FASTENED TO THE COLUMN AND ROOF BEAM WITH (4) 1/4"x3/4" SDF'S AT EACH END (8 PER BRACE)

BRACE SECTION

Validity Notice

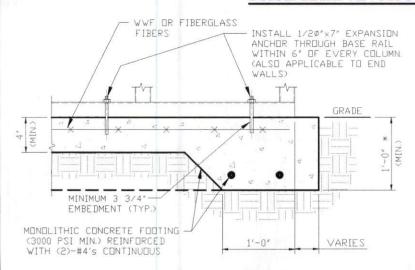
Plans Expiration Date:

31 December 2024

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ENGINEERING AND CONSULTING, INC.	CHECKED BY: JRP	SOUTH HILL, VA 23970 30'-0"x14'-0" ENCLOSED STRU		
MOORE AND ASSOCIATES	DRAWN BY: JRP	NE	WMART BUII 1000 CYCLE	

LL, VA 23970 OSED STRUCTURE JUB ND 18113\$/18246\$/ 19309\$/22257\$/23335\$ CONSULTING THE UNMUTHERIZED REPRESENTANT, CEPTURE, LIKE STREET, CASE OF THIS DOCUMENT IS STREETLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION. CLIENT: NEWMART SHT. 8A DWG. NO SK-3 REV. 11

BASE RAIL ANCHORAGE OPTIONS



CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
NOTE: MIN. ANCHOR EDGE DISTANCE IS 4"
* COORDINATE WITH LOCAL BUILDING CODES/ORD.
REGARDING REQUIRED FOOTING DEPTH.

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF.

CONCRETE

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2" ELSEWHERE.

REINFORCING STEEL:

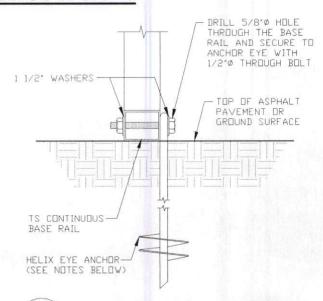
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

- REINFORCEMENT IS BENT COLD. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
- 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

HELIX ANCHOR NOTES:

- FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT
- 2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT
- 3. FOR MEDIUM DENSE CDARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
- 4. FOR LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT.
- 5. FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.



3B

GROUND BASE HELIX ANCHORAGE

(CAN BE USED FOR ASPHALT COORDINATE WITH LOCAL CODES/ORD. REGARDING REQUIRED ANCHOR LENGTH.

Validity Notice

Plans Expiration Date:

31 December 2024

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

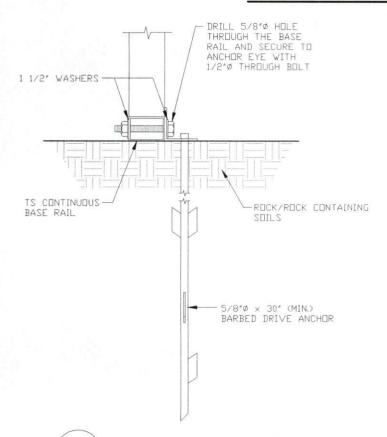
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NEWMART BUILDERS, INC. 1000 CYCLE LANE DRAWN BY: JRP SOUTH HILL, VA 23970 30'-0"x14'-0" ENCLOSED STRUCTURE CHECKED BY: JRP JOB NO 18113S/18246S SCALE: NTS PROJECT MGR: JRP DATE: 11-22-24 19309\$/22257\$/23335\$

CLIENT: NEWMART SHT. 9 DVG. NO SK-3 BUILDERS

REV. 11

BASE RAIL ANCHORAGE OPTION



3C BARBED DRIVE ANCHURAGE

SCALE: NTS * COORDINATE WITH LOCAL CODES/ORD. REGARDING REQUIRED ANCHOR LENGTH.

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Plans Expiration Date:

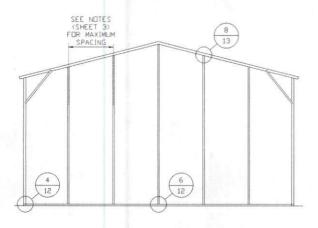
MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.
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242	NEWMART BUILDERS, INC.
DRAWN BY: JRP	1000 CYCLE LANE
With the second	SOUTH HILL, VA 23970
CHECKED BY: JRP	30'-0"x14'-0" ENCLOSED STRUCTURE

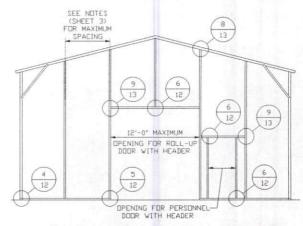
011001100 D11 0111		TO THE THEOLOGICAL DIRECTOR						
PROJECT MGR: JRP	DATE: 11-22-24	SCALE: NTS	JUB NO 181135/182465/ 193095/222575/233355					
CLIENT: NEWMART BUILDERS	SHT. 9A	DWG. NO: SK-3	REV.: 11					

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



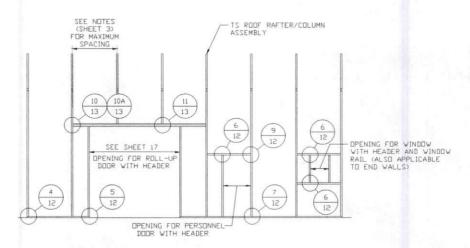
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENING FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

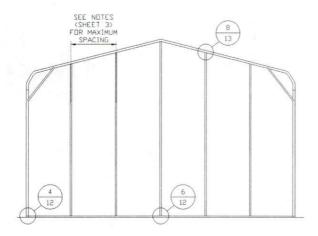
SCALE: NTS

Validity Notice

Plans Expiration Date:

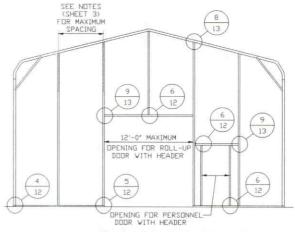
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: JRP	The second secon	SOUTH HILL, V 14'-0" ENCLOSE	A 23970 ED STRUCTURE
MOORE AND ASSOCIATES	DRAWN BY: JRP		EWMART BUILI 1000 CYCLE	LANÉ

BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



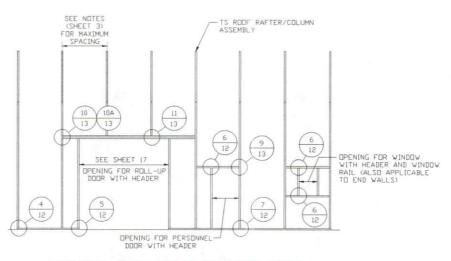
TYPICAL BOW EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW EAVE RAFTER END WALL OPENING FRAMING SECTION

SCALE: NTS



TYPICAL BOW EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

Validity Notice

Plans Expiration Date:

31 December 2024

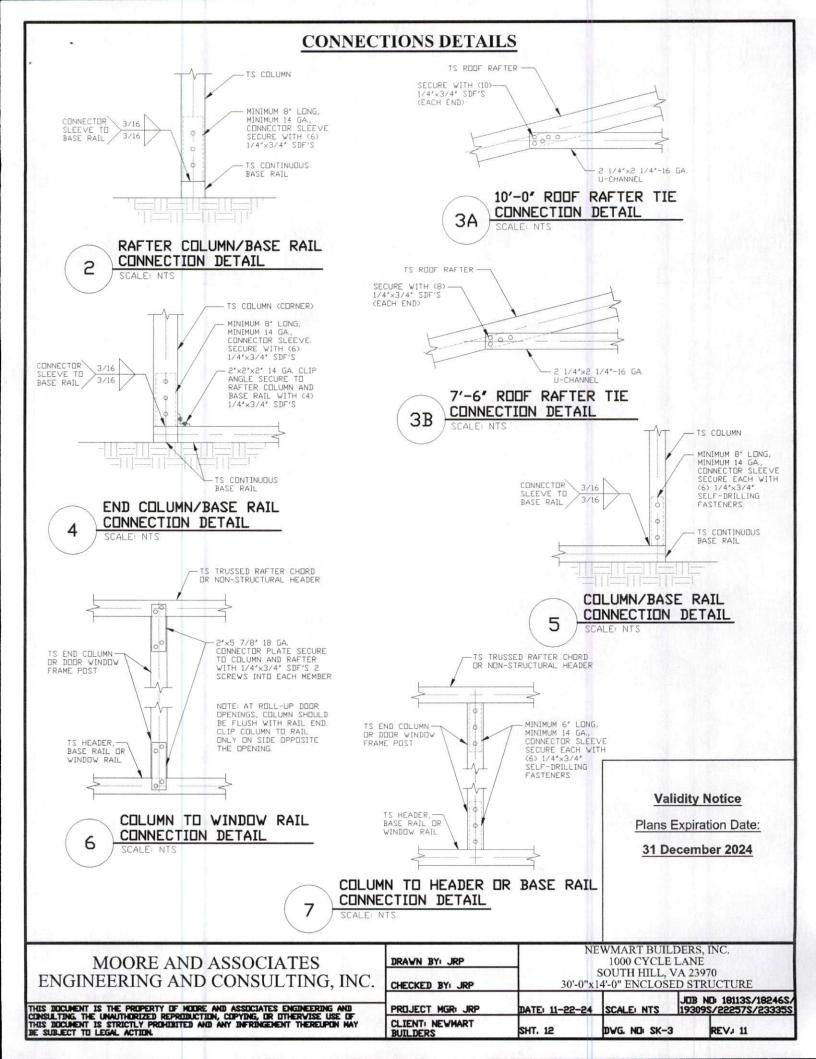
MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

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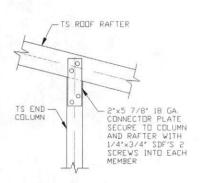
CHECKED BY: JRP	30'-0"x1	4'-0" ENCLOSE	ED STRUCTURE				
DRAWN BY: JRP	NEWMART BUILDERS, INC. 1000 CYCLE LANE SOUTH HILL. VA 23970						

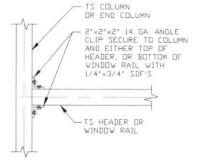
PROJECT MGR: JRP DATE: 11-22-24 SCALE: NTS 19309S/22257S/23335S

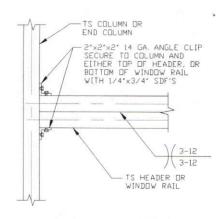
CLIENT: NEWMART BUILDERS SHT. 11 DVG. ND: SK-3 REV.: 11



CONNECTIONS DETAILS







RAFTER TO CHORD CONNECTION DETAIL

8

COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL 9

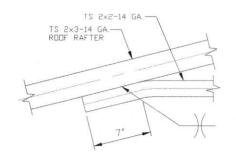
DOUBLE HEADER TO COLUMN CONNECTION DETAIL 10

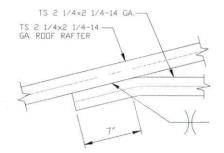
S COLUMN OR MINIMUM 6' LONG, MINIMUM 14 GA., CONNECTOR SLEEVE SECURE EACH WITH (6) 1/4"x3/4" SDF'S 0 0 0 -0 3-12 /\ 3-12 HEADER OR WINDOW RAIL CONNECTOR 3/16 SLEEVE TO HEADER

TS COLUMN CONNECTOR \ 3/16 MINIMUM 8" LONG MINIMUM 14 GA. CONNECTOR SLEEVE SECURE WITH (6) 1/4"×3/4" TO HEADER 3/16 0 TS DOUBLE HEADER 3-12 3-12

DOUBLE HEADER TO COLUMN CONNECTION DETAIL 10A SCALE: NTS

COLUMN/DOUBLE HEADER CONNECTION DETAIL 11





15'-0" ROOF RAFTER TIE CONNECTION DETAIL 12A

12'-0' ROOF RAFTER TIE CONNECTION DETAIL 12B

BUILDERS

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Plans Expiration Date:

31 December 2024

REV. 11

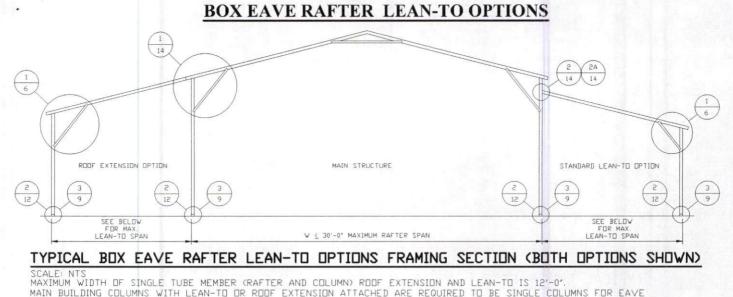
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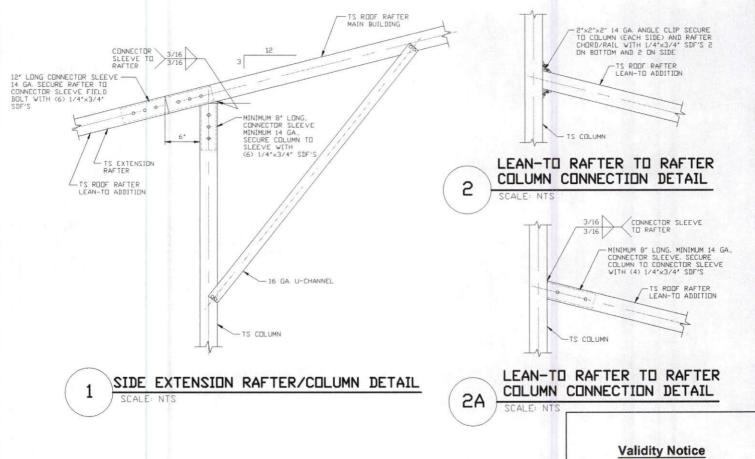
NEWMART BUILDERS, INC. DRAWN BY: JRP 1000 CYCLE LANE SOUTH HILL, VA 23970 CHECKED BY: JRP 30'-0"x14'-0" ENCLOSED STRUCTURE JOB ND 18113\$/18246\$, 19309\$/22257\$/23335\$ PROJECT MGR: JRP DATE: 11-22-24 SCALE: NTS CLIENT: NEWMART

DWG. NO SK-3

SHT. 13



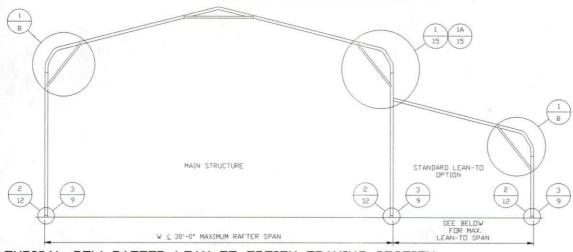
SCALE: NTS
MAXIMUM WIDTH OF SINGLE TUBE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 12'-0',
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE



Plans Expiration Date:

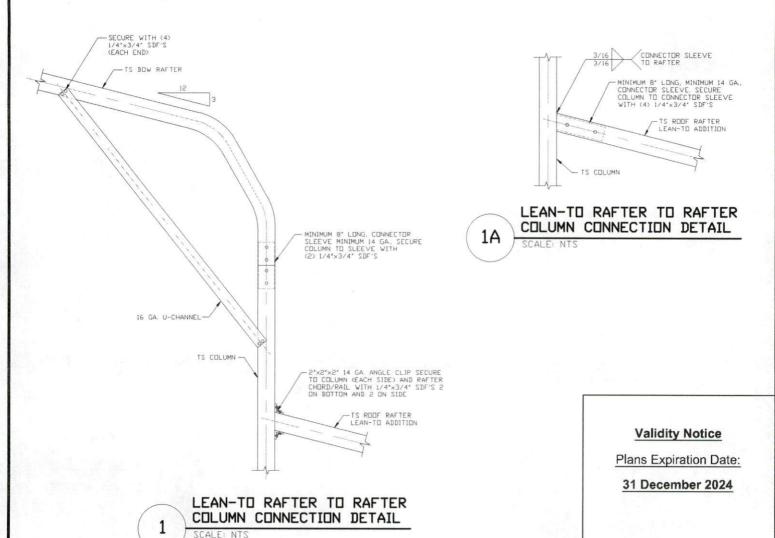
MOORE AND ASSOCIATES	DRAWN BY: JRP	NE	NEWMART BUILDERS, INC. 1000 CYCLE LANE				
ENGINEERING AND CONSULTING, INC.	CHECKED BY: JRP		SOUTH HILL, 14'-0" ENCLOS				
THIS DOCUMENT IS THE PROPERTY OF MODINE AND ASSOCIATES ENGINEERING AND	PROJECT MGR: JRP	DATE: 11-22-24	SCALE: NTS		18113S/18246S/ 22257S/23335S		
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BOW RAFTER LEAN-TO OPTIONS



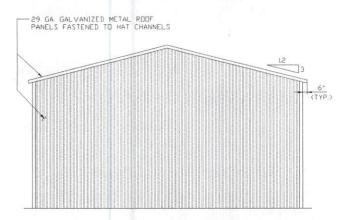
TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: NTS
MAXIMUM WIDTH OF SINGLE TUBE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 12'-0'.
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE
HEIGHTS (14'-0')

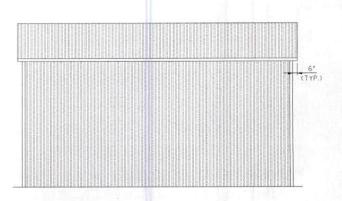


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ENGINEERING AND CONSULTING, INC.	CHECKED BY: JRP	The state of the s	SOUTH HILL, V 4'-0" ENCLOSE	A 23970 D STRUCTURE
MOORE AND ASSOCIATES	DRAWN BY: JRP		DERS, INC. LANE	

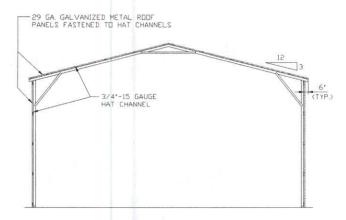
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



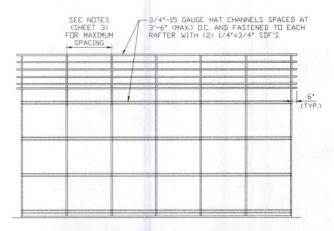
TYPICAL END ELEVATION VERTICAL ROOF/SIDING



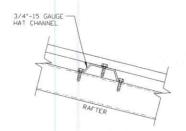
TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING OPTION



TYPICAL SECTION VERTICAL ROOF/SIDING OPTION



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS) SCALE: NTS

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	NEWMART BUILDERS, INC
DRAWN BY: JRP	1000 CYCLE LANE
	SOUTH HILL, VA 23970
CHECKED BY: JRP	30'-0"x14'-0" ENCLOSED STRUCT

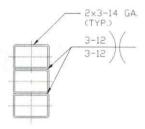
BUILDERS

JUB ND 181135/182465/ 193095/222575/233355 PROJECT MGR: JRP DATE: 11-22-24 SCALE: NTS CLIENT: NEWMART SHT. 16 DWG. NO: SK-3 **REV. 11**

SIDE WALL HEADER OPTIONS

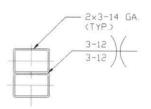
NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.

FOR 35 PSF < TO ≤ 45 PSF GROUND SNOW LOAD



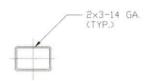
HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 8'-0' < TO < 12'-0' WIDE

SCALE: NTS



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 5'-0' < TO < 8'-0' WIDE

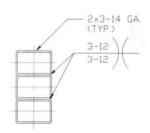
SCALE: NTS



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS ≤ 5'-0" WIDE

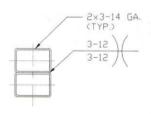
SCALE: NTS

$FOR \le 35 PSF GROUND SNOW LOAD$



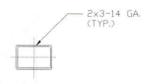
HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 10'-0' < TO < 12'-0' WIDE

SCALE: NTS



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS 6'-0' < TO \(\) 10'-0' WIDE

SCALE: NTS



HEADER DETAIL FOR SIDE WALL DOOR OPENINGS & 6'-0' WIDE

SCALE: NTS

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MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

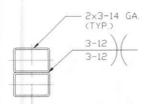
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BE SUBJECT TO LEGAL ACTION.	

DRAWN BY: JRP	NEWMART BUILDERS, INC. 1000 CYCLE LANE			
CHECKED BY: JRP	SOUTH HILL, VA 23970 30'-0"x14'-0" ENCLOSED STRUCTURE			
PROJECT MGR: JRP	DATE: 11-22-24	SCALE: NTS	JDB ND 18113\$/18246\$ 19309\$/22257\$/23335	
CLIENT: NEWMART	SHT. 17	DVG. ND: SK-3	7	REV. 11

END WALL HEADER OPTIONS

NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.

FOR 35 PSF < TO \le 45 PSF GROUND SNOW LOAD



HEADER DETAIL FOR END WALL DOOR

2×3-14 GA (TYP.)

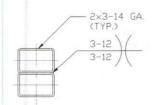
2×3-14 GA.

(TYP.)

HEADER DETAIL FOR END WALL DOOR □PENINGS 7'-0' < T□ < 12'-0' WIDE</pre>

SCALE: NTS

FOR ≤ 35 PSF GROUND SNOW LOAD



□PENINGS < 7'-0" WIDE

HEADER DETAIL FOR END WALL DOOR □PENINGS 8'-0" < T□ < 12'-0" WIDE</pre>

SCALE: NTS

HEADER DETAIL FOR END WALL DOOR □PENINGS ≤ 8'-0' WIDE

SCALE: NTS

SCALE: NTS

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Plans Expiration Date:

31 December 2024

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

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CONSULTING.	THE UNAUTHOR	ZED REPRODUCT	IUN, CUPYING, UR	OTHERVISE USE OF
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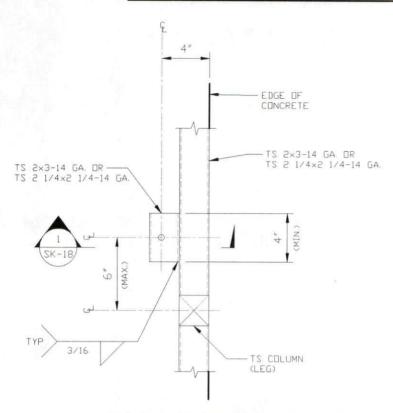
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CHECKED BY: JRP	30'-0"x14

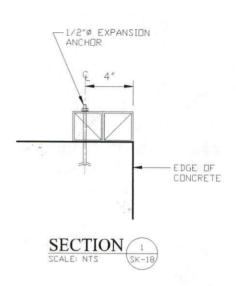
BUILDERS

WMART BUILDERS, INC. 1000 CYCLE LANE SOUTH HILL, VA 23970 4'-0" ENCLOSED STRUCTURE

JUB ND 18113\$/18246\$/ 19309\$/22257\$/23335\$ SCALE: NTS PROJECT MGR: JRP DATE: 11-22-24 CLIENT: NEWMART **SHT. 17A** DWG. NO SK-3 REV. 11

ADDITIONAL BASE RAIL ANCHORAGE OPTION





TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NITS

Validity Notice

Plans Expiration Date:

31 December 2024

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DRAWN	BY: JRP
CHECKE	ED BY: JRP

NEWMART BUILDERS, INC. 1000 CYCLE LANE SOUTH HILL, VA 23970 30'-0"x14'-0" ENCLOSED STRUCTURE

PROJECT MGR: JRP	DATE: 11-22-24		JUB ND 181135/182465 193095/222575/23335
CLIENT: NEWMART	SHT. 18	DVG. ND: SK-3	REV. 11