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Business & Professional Regulation





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Manufactured (Modular) Buildings

USER: Todd Gunter, Leonard Aluminum Utility Buildings, LLC, Modular Unit Manufacturer

Manufactured (Modular) Buildings Menu > Confirmation

Thank you Todd Gunter, your application fee has been accepted. Please print this receipt for your records.

You have been successfully registered as

Login Leonard1
Name Todd Gunter
Primary Phone (336) 789-5018

Email bmatthews@leonardusa.com

FBC Organization Number MFT14344

Business/Firm Name Leonard Aluminum Utility Buildings, LLC

Business Location Address 630 W. Independence Blvd

Suite 3

City Mount Airy
State North Carolina
Zip Code 27030

Administrator Name Todd Gunter
Administrator Phone (336) 789-5018

| Payment Number | 138222 |
|-----------------|----------|
| Sub Total | \$600.00 |
| Convenience Fee | \$2.00 |
| Payment Total | \$602.00 |

Finish

Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Manufactured (Modular) Buildings Accepts:







January 27, 2023

Mr. Thomas Campbell Florida Department of Business and Professional Regulation 2601 Blair Stone Road, Building C Tallahassee, Florida 32399-6563

RE: Plan Approval

Leonard Aluminum Utility Buildings, LLC (Valdosta, Georgia Plant)

Slim-V-20

Dear Mr. Campbell,

Pursuant to the requirements of the Department of Business & Professional Regulation, the above referenced documents have been reviewed for compliance with:

2020 Florida Building Code, 7th Edition, with 2021 supplements 2017 National Electrical Code (NFPA-70) Florida Product Approval Rule 61G20-3.006 (FAC)

All mandatory comments have been satisfied and plans are approved for construction by a currently approved modular building manufacturer.

These documents were reviewed for only what is to be constructed in the factory. Any work performed at the site, such as the foundation, is under the authority and jurisdiction of the local Building Official.

Third Party Agency approval in no way alleviates the builder/manufacturer from complying with all the applicable codes, which may or may not be identified in this review. Approval also does not preclude the local building official from requiring work be performed that was not previously reviewed, approved, and constructed under the State of Florida's Manufactured (Modular) Building Program to make the building, code compliant, for the intended use.

A signed and sealed set of plans are maintained on file with Top Line Engineering, LLC.

If you require my assistance in any way, please do not hesitate to contact me.

Thank you.

Respectfully,

William E. Neary,

Plans Examiner

SMI-79, SMP-51, ICC 5185040

Business Partner

Top Line Engineering, LLC

BILL.TLE@yahoo.com

*** Please note: Any questions regarding local permitting should be directed to the Manufacturer. The Manufacturer's contact information can be found in the title block of the plans.

LEONARD BUILDINGS

100 DOUGLAS ST., VALDOSTA, GA 31601

SLIM SHED

STATE OF FLORIDA

| | Design Criteria | | | | |
|--|--|--|--|--|--|
| BUILDING CODE | ASCE 7-16, FBC 2020 (7th ed.) W/2021 SUPP | | | | |
| ELECTRICAL CODE | 2014 NEC, NFPA70 | | | | |
| BUILDING TYPE | RESIDENTIAL LAWN STORAGE SHED | | | | |
| MANUFACTURER | LEONARD BUILDINGS | | | | |
| AGENCY | TOP LINE ENGINEERING, LLC | | | | |
| AGENCY PLAN NUMBER | SLIM | | | | |
| CONSTRUCTION TYPE | V-B | | | | |
| FIRE PROTECTION | В | | | | |
| FIRE SUPPRESSION SYSTEM | NO | | | | |
| OCCUPANCY | U - UTILITY | | | | |
| NUMBER OF OCCUPANTS | 0 | | | | |
| ALLOWABLE # OF STORIES | 1 | | | | |
| WIND INFORMATION | 160 MPH ULTIMATE, V _{ASD} = 124 MPH, EXPOSURE C, CATEGORY I; ENCLOSED; +/- 0.18 INTERNAL PRESSURE COEFFICIENT; 15' HEIGHT | | | | |
| FLOOR LIVE LOAD | 40.0 PSF | | | | |
| FLOOR DEAD LOAD | 4.0 PSF | | | | |
| ROOF LIVE LOAD | 20.0 PSF | | | | |
| ROOF DEAD LOAD | 7.0 PSF | | | | |
| WALL DEAD LOAD | 3.0 PSF | | | | |
| UNINHABITED LOFT LIVE LOAD | 0.0 PSF | | | | |
| GROUND SNOW LOAD | 20.0 PSF | | | | |
| FIRE RATING OF EXTERIOR WALLS | 0 | | | | |
| "R" RATING OF FLOOR, WALL, AND ROOF | R-0, R-0, R-0 | | | | |
| MODULES PER BUILDING | 1 | | | | |
| SQUARE FOOTAGE | LESS THAN 719 SQ. FT. | | | | |
| EXEMPT FROM ENERGY CONSERVATION CODE? | YES | | | | |
| APPROVED FOR HURRICANE PROTECTION USAGE? | NO | | | | |
| DESIGNED FOR HURRICANE PUBLIC SHELTER? | NO | | | | |

SITE INSTALLED ITEMS:

NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIALS THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL.

- 1. THE COMPLETE FOUNDATION SUPPORTING AND TIE-DOWN SYSTEM.
- 2. RAMPS, STAIRS, AND GENERAL ACCESS TO THE BUILDING IF NECESSARY.
- 3. GUTTERS AND DOWN SPOUTS ON ALL **BUILDINGS WITH EAVES OF LESS THAN 6 INCHES HORIZONTAL PROJECTION** EXCEPT FOR GABLE END RAKES.

OCCUPANCY NOTE:

THIS BUILDING IS NOT DESIGNED FOR **HUMAN HABITATION AND DOES NOT** HAVE RUNNING WATER OR SANITATION SERVICES. THIS BUILDING IS DESIGNED AS A UTILITY SHED TO STORE LAWN EQUIPMENT SUCH AS WHEEL BARROWS, GARDENING SUPPLIES. FLOWER POTS. AND CARDBOARD BOXES WITH VARIOUS SMALL ITEMS.

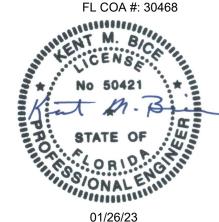
NOT APPROVED FOR HVHZ

| Sheet Index | | | | |
|--------------|-------------------------------|--|--|--|
| SHEET NUMBER | SHEET TITLE | | | |
| S-1 | COVER SHEET | | | |
| S-2 | GENERAL NOTES | | | |
| S-3 | WIND LOAD TABLES | | | |
| S-4 | FASTENING SCHEDULE | | | |
| S-5 | FRAMING PLANS | | | |
| S-6 | ELEVATION PANEL SIDING | | | |
| S-6A | ELEVATION LAP SIDING | | | |
| S-7 | ELEVATIONS AND SECTIONS | | | |
| S-8 | SHORT SIDE WALL ELEVATIONS | | | |
| S-9 | DETAILS | | | |
| S-10 | DETAILS | | | |
| S-11 | DETAILS | | | |

TOP LINE ENGINEERING, LLC
STRUCTURAL ENGINEERS

William E. Neary, III SMP-51, SMI-79, ICC 5185040 10649 Oakview Pointe Terrace Gotha, Florida 34734

> FL PE Name: Kent M. Bice FL PE #: 50421 FL COA #: 30468



1552 6TH ST., WINTER HAVEN, FL 33880 (863)865-6502

COVER SHEET

RD DATE: 12/08/20 DRAWN BY:

SCALE: AS NOTED CHECKED BY: KMB

SHEET:

SHEET 1 OF 12

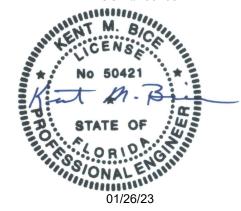
GENERAL NOTES:

- 1. THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (7th Ed.).
- 2. ALL MATERIALS AND LABOR SHALL BE IN ACCORDANCE WITH THE ABOVE CODE AND ALL OTHER APPLICABLE LOCAL CODES AT THE TIME OF MANUFACTURE.
- 3. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- 4. THE FOUNDATION PLAN IS A SEPARATE SET OF PLANS FOR APPROVAL BY LOCAL MUNICIPALITIES.
- 5. EXTERIOR DIMENSIONS CAN VARY BETWEEN LIMITS SHOWN AT 2' O.C. BUT MEMBER SPACING SHALL NOT EXCEED LIMITS AS INDICATED.
- 6. ALL THE FOLLOWING LUMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA USE CATEGORY UC4B (GROUND CONTACT, HEAVY DUTY)-SKIDS.
- 7. ALL THE FOLLOWING LUMBER SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA USE CATEGORY UC3B (EXTERIOR ABOVE GROUND, UNCOATED OR POOR WATER RUNOFF)-FLOOR JOISTS, PLYWOOD FLOOR DECKING, AND EXTERIOR RATED WOOD STRUCTURAL PANEL SIDING.
- 8. ALL FASTENERS AND CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED (G185) OR STAINLESS STEEL.
- 9. ALL WINDOWS WITHIN 24" OF DOORS, AND ALL GLASS IN DOORS SHALL BE SAFETY, TEMPERED, OR ACRYLIC PLASTIC SHEET.
- 10. FOR ROOFS WITH ASPHALT SHINGLES AND A SLOPE BETWEEN 2 TO 12 AND 4 TO 12 SHALL HAVE A DOUBLE UNDERLAYMENT APPLICATION AS REQUIRED IN ACCORDANCE WITH SECTION 1507.2.2 OF THE 2018 IBC OR PER SHINGLE MANUFACTURER INSTRUCTIONS.
- 11. UNDERLAYMENT SHALL CONFORM WITH SECTION 1507.2.3 OF THE 2018 IBC OR PER SHINGLE MANUFACTURER INSTRUCTIONS
- 12. ASPHALT SHINGLES SHALL CONFORM WITH SECTION 1507.2.5 OF THE 2018 IBC ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH 1507.2.7 OF THE 2018 IBC.
- 13. FASTENERS FOR ASPHALT SHINGLES SHALL CONFORM TO SECTION 1507.2.6 OF THE 2018 IBC.
- 14. TIE-DOWNS SHALL MEET THE REQUIREMENTS OF ALL APPLICABLE CODES.
- 15. THESE PLANS HAVE NOT BEEN DESIGNED FOR HVHZ REQUIREMENTS AS SET FORTH IN THE 2018 IBC OR FOR USE AS A COMMERCIAL BUILDING.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY AND PLACEMENT OF LAWN STORAGE UNIT TO ENSURE THE INTEGRITY OF THE BUILDING AND ITS COMPONENT PARTS.
- 18. NO FIELD REVISIONS TO ANY STRUCTURAL COMPONENTS OR DEVIATIONS FROM THESE DRAWINGS SHALL BE MADE.
- 19. THE OWNER AND THE CONTRACTOR SHALL HOLD HARMLESS THE ENGINEER FROM AND AGAINST ALL LIABILITY CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING LEGAL FEES ARISING OUT OF OR RESULTING FROM ERRORS OR OMISSIONS IN THE PERFORMANCE OF THE WORK BY THE CONTRACTOR.
- 20. SECTIONS AND DETAILS ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY AT ALL SIMILAR LOCATIONS, UNLESS OTHER SECTIONS AND DETAILS ARE SPECIFICALLY REFERENCED.
- 21. REFER TO SUPPLIED FASTENING SCHEDULE FOR FASTENING BASED ON CONNECTION AND LOCATION OF MEMBERS AS PER 2018 IBC TABLE 2304.10.1 UNLESS NOTED OTHERWISE.
- 22. BUILDINGS HAVE BEEN DESIGNED FOR LP SMARTSIDE STRAND SUBSTRATE PANEL SIDING, LP SMARTSIDE PRECISION LAP SIDING SHALL BE USED WITH X-STRAPS OR STRUCTURAL SHEATHING AS DETAILED IN THIS PLAN SET
- 23. FASTENERS IN LP SMARTSIDE STRAND SUBSTRATE PANEL SIDING MUST NOT BE INSTALLED IN PANEL SIDING GROOVES IN THE FIELD OF THE PANEL SIDING OR WHEN THE PANEL SIDING GROOVES OCCUR AT CUT EDGES OF THE PANEL SIDING.
- 24. REFER TO THE ICC-ES EVALUATION REPORT ESR-1301 / 3090 FOR ADDITIONAL DATA AND SPECIFICATIONS OF LP SMARTSIDE STRAND SUBSTRATE PANEL / LAP SIDING.
- 25. MAX OPENINGS WIDTHS MUST COMPLY WITH DESIGN RATIOS AS PER ANSI/AF&PA SDPWS-2015. BUILDINGS HAVE BEEN DESIGNED TO HAVE ONLY OPENINGS WITH MAX WIDTHS EQUAL TO THOSE IN THE ENDWALL SHEAR WALL CHART.
- 26. PER SECTION 1609.1.2 OF THE 2018 IBC, STORAGE SHEDS THAT ARE NOT DESIGNED FOR HUMAN HABITATION AND THAT HAVE A FLOOR AREA OF 720 SQUARE FEET OR LESS ARE NOT REQUIRED TO COMPLY WITH THE MANDATORY WIND-BORNE-DEBRIS-IMPACT STANDARDS OF THE 2018 IBC.
- 27. BUILDINGS HAVE BEEN DESIGNED TO HAVE ANCHORS DIRECTLY ATTACHED TO ALL FOUR CORNERS OF THE BUILDING TO RESIST TENSION FORCES FROM LATERAL WIND LOADS.
 THIS DESIGN CONSIDERATION MUST BE MADE BY INSTALLER WHEN ATTACHING ANCHORING SYSTEM TO BUILDING.
- 28. UNLESS NOTED OTHERWISE, ATTACH ALL MANUFACTURED PRODUCTS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- 29. 2X4 SP #2 PRESSURE TREATED LUMBER SHALL BE SUBSTITUTED FOR 2X4 SPF #2 LUMBER IN WALLS FOR USE IN FLOOD PLAINS.
- 30. PER APA PRODUCT REPORT PR-N124, LP SMARTSIDE STRAND SUBSTRATE SERIES TREATED-ENGINEERED-WOOD PANEL AND LAP SIDING IS PERMITTED ON WALLS FOR USE IN FLOOD PLAINS.
- 31. 19/32" LP PROSTRUCT FLOORING WITH SMARTFINISH IS PERMITTED IN LIEU OF 5/8" APA RATED STRUCTURAL SHEATHING ON FLOOR. INSTALL PER MANUFACTURER INSTRUCTIONS.

TOP LINE ENGINEERING, LLC
STRUCTURAL ENGINEERS

William E. Neary, III SMP-51, SMI-79, ICC 5185040 10649 Oakview Pointe Terrace Gotha, Florida 34734

FL PE Name: Kent M. Bice FL PE #: 50421 FL COA #: 30468



1552 6TH ST., WINTER HAVEN, FL 33880 (863)865-6502

GENERAL NOTES

DATE: 12/08/20 DRAWN BY:

SCALE: AS NOTED

DRAWN BY: RD SHEET 2 OF 12

SHEET

BUILDING DATA ASCE 7-16 WIND

INTERNAL PRESSURE COEFFICIENT WIND VELOCITY V_{ULT} 160 MPH ± 0.18 WIND VELOCITY V_{ASD} 124 (ENCLOSED BUILDING ASCE 7-16)

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENT 1.0 **BUILDING CATEGORY**

ROOF DEAD LOAD RESISTING UPLIFT (PSF)

ROOF ANGLE, ° (DEGREES) 12 DEGREES

WIND EXPOSURE CATEGORY С MEAN ROOF HEIGHT 15

NOTES:

- 1. FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
- 2. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
- PRESSURES SHOWN ARE APPLIED NORMAL TO THE SURFACE.
- REFER TO PRESSURE ZONE DIAGRAMS PROVIDED FOR CORRESPONDING ZONES.
- ROOF COVERINGS, FINISHES, ETC SHALL BE DESIGNED FOR THE FULL NEGATIVE DESIGN PRESSURE.

MWFRS - WALL

| WIND ON | L (FT) | B (FT) | L/B | PO = Ph, PSF | PRESSURE FOR DIAPHRAGM DESIGN, PSF | | PRESSURE FOR STUD DESIGN, PSF | |
|---------------|--------|--------|-----|-----------------|--|----------------------------|----------------------------------|-------------------------|
| | | | | PII, PSF | WINDWARD, W _W | LEEWARD, W _I | WINDWARD, W _W | LEEWARD, W _I |
| SHORT WALL | 12 | 6 | 2 | 46.6 | 34.0 | 12.6 | 42.5 | 21.1 |
| | | | | | | | | |
| LONG WALL | 6 | 12 | 0.5 | 53.7 | 33.3 | 20.4 | 41.8 | 28.9 |

MWFRS - ROOF

| LOAD CASE | THETA | WIND PRESSURE ON ROOF ZONE, PSF | | | | | |
|-------------|-------|------------------------------------|-------|-----------------------|-------|-------|--|
| | (DEG) | WIND ON LONG WALL | | WIND ON SHORT WALL | | | |
| | | 1 | 2 | 3 | 4 | 5 | |
| LOAD CASE 1 | 9.46 | 0.0 | 0.0 | -50.1 | -44.7 | -36.6 | |
| | 14 | -49.2 | -35.4 | -50.1 | -44.7 | -36.6 | |
| | 12 | -27.5 | -19.8 | -50.1 | -44.7 | -36.6 | |
| LOAD CASE 2 | 9.46 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| | 14 | 7.1 | -10.0 | 0.0 | 0.0 | 0.0 | |
| | 12 | 4.0 | -5.6 | 0.0 | 0.0 | 0.0 | |

COMPONENTS & CLADDING

WIND

PLAN

WIND

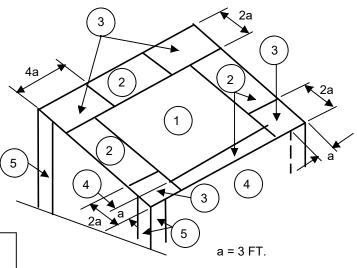
WIND

| EFFECTIVE WIND AREA | P _S , (PSF) - C&C - TABLE 30.7-2 | | | | | | | | | |
|------------------------|---|--------------------------------|------------------|-------|--------------------|---------|------------|-------|------|-------|
| | | UNADJUSTED, P _{TABLE} | | | | | | | | |
| (SQ. FT.) | ROOF | | | | | WALL | | | | |
| | INTERIOR END ZONE ZONE 1 2 | | CORNER ZONE 3 | | INTERIOR ZONE 4 | | END ZONE 5 | | | |
| | + | - | + | - | + | - | + | - | + | - |
| | 27.4 | -65.3 | 27.4 | -84.2 | 27.4 | -145.6 | 55.8 | -60.5 | 55.8 | -93.6 |
| 10 | | | | | ADJU | STED, P | TABLE | | | |
| | | | | | | | | | | |
| | 27.4 | -65.3 | 27.4 | -84.2 | 27.4 | -145.6 | 55.8 | -60.5 | 55.8 | -93.6 |

WIND LOAD MAIN WIND FORCE PRESSURE DIAGRAMS

h = 7 FT.

2



WIND PRESSURE

WIND LOAD COMPONENT AND **CLADDING PRESSURE DIAGRAM**

5

ELEVATION

3

WIND

William E. Neary, III SMP-51, SMI-79, ICC 5185040 10649 Oakview Pointe Terrace Gotha, Florida 34734

FL PE Name: Kent M. Bice FL PE #: 50421 FL COA #: 30468



1552 6TH ST., WINTER HAVEN, FL 33880 (863)865-6502

WIND LOAD TABLES

DRAWN BY: DATE: 12/08/20 SCALE: AS NOTED CHECKED BY: KMB SHEET 3 OF 12

SHEET:

2023-01-27 TOP LINE ENGINEERING, LLC APPROVAL

THESE PLANS WERE DESIGNED IN ACCORDANCE WITH THE ASCE 7-16, FBC 2020 (7TH ED.) W/2021 SUPP.

| FASTENING SCHEDULE | | | | | | |
|--|--|----------------------------------|--|--|--|--|
| CONNECTION | FASTENING ^{a, k} | LOCATION | | | | |
| 1. JOIST TO SILL OR GIRDER | 3 - 8d COMMON (2½" X 0.131") 3 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES | TOENAIL | | | | |
| 2. BRIDGING TO JOIST | 2 - 8d COMMON (2½" X 0.131") 2 - 3" X 0.131" NAILS 2 - 3", 14 GAGE STAPLES | TOENAIL EACH END | | | | |
| 3. SOLE PLATE TO JOIST OR BLOCKING | 16d (3½" X 0.135") AT 12" O.C. 3" X 0.131" NAILS AT 12" O.C. 3", 14 GAGE STAPLES AT 12" O.C. | FACE NAIL | | | | |
| 4. SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL | 3 - 16d (3½" X 0.135") AT 16" O.C. 4 - 3" X 0.131" NAILS AT 16" O.C. 4 - 3", 14 GAGE STAPLES AT 16" O.C. | FACE NAIL | | | | |
| 5. TOP PLATE TO STUD | 2 - 16d (3½" X 0.162") 3 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES | END NAIL | | | | |
| 6. STUD TO SOLE PLATE | 4 - 8d COMMON (2½" X 0.131") 4 - 3" X 0.131" NAILS 4 - 3", 14 GAGE STAPLES | TOENAIL | | | | |
| | 2 - 16d COMMON (3½" X 0.162") 3 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES | END NAIL | | | | |
| 7. DOUBLE STUDS | 16d (3½" X 0.162") AT 24" O.C. 3" X 0.131" NAILS AT 16" O.C. 3", 14 GAGE STAPLES AT 16" O.C. | FACE NAIL | | | | |
| 8. TOP PLATE TO TOP PLATE | 16d (3½" X 0.162") AT 16" O.C. 3" X 0.131" NAILS AT 12" O.C. 3", 14 GAGE STAPLES AT 12" O.C. | FACE NAIL | | | | |
| | 8 - 16d COMMON (3½" X 0.162") 12 - 3" X 0.131" NAILS 12 - 3", 14 GAGE STAPLES | FACE NAIL AT LAP SPLICE | | | | |
| 9. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE | 3 - 8d COMMON (2½" X 0.131") 3 - 3 X 0.131" NAILS 3 - 3", 14 GAGE STAPLES | TOENAIL | | | | |
| 10. RIM JOIST TO TOP PLATE | 8d (2½" X 0.131") AT 6" O.C. 3" X 0.131" NAILS AT 6" O.C. 3", 14 GAGE STAPLES AT 6" O.C. | TOENAIL | | | | |
| 11. TOP PLATES, LAPS AND INTERSECTIONS | 2 - 16d COMMON (3½" X 0.162") 3 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES | FACE NAIL | | | | |
| 12. CONTINUOUS HEADER (2) PIECES | 16d COMMON (3½" X 0.162") | 16" O.C. EACH EDGE, FACE NAIL | | | | |
| 13. CEILING JOISTS TO PLATE | 3 - 8d COMMON (2½" X 0.131") 3 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES | TOENAIL | | | | |
| 14. CONTINUOUS HEADER TO STUD | 4 - 8d COMMON (2½" X 0.131") | TOENAIL | | | | |
| 15. RAFTER TO PLATE | 3 - 16d (3½" X 0.162") 4 - 3" X 0.131" NAILS 4 - 3", 14 GAGE STAPLES | TOENAIL | | | | |
| 16. 1" DIAGONAL BRACE TO EACH STUD AND PLATE | 2 - 8d COMMON (2½" X 0.131") 2 - 3" X 0.131" NAILS 3 - 3", 14 GAGE STAPLES | FACE NAIL | | | | |
| 17. BUILT-UP CORNER STUDS | 16d (3½" X 0.162") 3" X 0.131" NAILS 3" 14 GAGE STAPLES | 12" O.C. FACE NAIL | | | | |

| CONNECTION | | FASTENING ^{a, k} | LOCATION |
|--|---|--|---|
| 18. BUILT-UP GIRDER AND BEAMS | 3" X 0.131" NA | I (4" X 0.192") at 32" O.C. IIL AT 24" O.C. TAPLE AT 24" O.C. AND | FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES |
| | 3 - 3" X 0.131" 3 - 3" 14 GAGE | E STAPLE | FACE NAIL AT ENDS AND AT EACH SPLICE |
| 19. COLLAR TIE TO RAFTER | 3 - 10d COMM 4 - 3" X 0.131" 4 - 3" 14 GAGE | | FACE NAIL |
| 20. ROOF RAFTER TO 2-BY RIDGE BEAM | 3 - 10d COMM 4 - 3" X 0.131" 4 - 3" 14 GAGE | | TOENAIL |
| 21. JOIST TO BAND JOIST | 3 - 16d COMM 4 - 3" X 0.131" 4 - 3" 14 GAGE | | END NAIL |
| 22. WOOD STRUCTURAL PANELS AND PARTICLEBOARD ^b , SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING) SINGLE FLOOR, COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING | ½" AND LESS 1%2" TO ¾" 78" TO 1" 118" TO 1½" | 6d ^c , J 2¾" X 0.113" NAIL ^I 1¾" X 16 GAGE ^m STAPLE 8d ^d OR 6d ^e 2¾" X 0.113" NAIL ⁿ 2" 16 GAGE ⁿ STAPLE 8d ^c 10d ^d OR 8d ^e | 6" O.C. AT ENDS ABOVE RAFTER / TRUSS AND 12' O.C. AT INTERMEDIATE, 4" O.C. AT COMPONENT AND CLADDING END STRIP # ZONE 3 [REFER TO FIGURE ON SHEET S-3], UNLESS NOTED OTHERWISE |
| 23. PANEL SIDING TO FRAMING | ½" OR LESS 5/8" | 6d ^f 8d ^f | 6" / 12" O.C. AT EDGES / INTERMEDIATE |
| 24. FIBERBOARD SHEATHING | 25/32" | NO. II GAGE ROOFING NAIL ^h 6d COMMON NAIL (2" x 0.113") NO. 16 GAGE STAPLE ⁱ NO. II GAGE ROOFING NAIL ^h 8D COMMON NAIL (2½" x 0.131") NO 16 GAGE STAPLE ⁱ | 3" / 6" O.C. AT EDGES / INTERMEDIATE FOR STRUCTURAL APPLICATIONS 6" / 12" O.C. AT EDGES / INTERMEDIATE FOR NON-STRUCTURAL APPLICATIONS |

NOTES:

- a. COMMON OR BOX NAILS ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.
- b. NAILS SPACED AT 6' O.C. AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
- c. COMMON OR DEFORMED SHANK (6d $2" \times 0.113"$; 8d $2\frac{1}{2}" \times 0.131"$; 10d $3" \times 0.148"$).
- d. COMMON (6d 2" x 0.113"; 8d 2 1/2" x 0.131"; 10d x 0.148").
- e. DEFORMED SHANK (6d 2" x 0.113"; 8d 2 1/2" x 0.131"; 10d 3" x 0.148").
- f. CORROSION-RESISTANT SIDING (6d 1 7/8" x 0.106"; 8d 2 3/8' x 0.128") OR CASING (6d 2" x 0.099"; 8d 2 1/2" x 0.113") NAIL.
- g. FASTENERS SPACED 3ⁱⁱ O.C. AT EXTERIOR EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6" O.C. ON THE EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS.
- h. CORROSION-RESISTANT ROOFING NAILS WITH 7/16" DIAMETER HEAD AND 1 ½" LENGTH FOR 1/2" SHEATHING AND 1 3/4" LENGTH FOR 25/32" SHEATHING.
- CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16" CROWN OR 1" CROWN AND 1 1/4" LENGTH FOR 1/2" SHEATHING AND 1 1/2" LENGTH FOR 25/32" SHEATHING. PANEL SUPPORTS AT 16" (20" IF STRENGTH AXIS IS THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
- j. FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2 1/2" x 0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
- k. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16'.
- I. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4" O.C. AT EDGES, 8" O.C. AT INTERMEDIATE SUPPORTS.
- m. FASTENERS SPACED 4" O.C. AT EDGES, 8" O.C. AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3" O.C. AT EDGES, 6" AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.
- n. FASTENERS SPACED 4" O.C. AT EDGES, 8" AT INTERMEDIATE SUPPORTS.

William E. Neary, III
SMP-51, SMI-79, ICC 5185040
10649 Oakview Pointe Terrace
Gotha, Florida 34734

FL PE Name: Kent M. Bice FL PE #: 50421 FL COA #: 30468

STATE OF OR INC.

HENT M. B/CA

01/26/23

1552 6TH ST., WINTER HAVEN, FL 33880 (863)865-6502

FASTENING SCHEDULE

DATE: 12/08/20 DRAWN BY: RD
SCALE: AS NOTED CHECKED BY: KMB

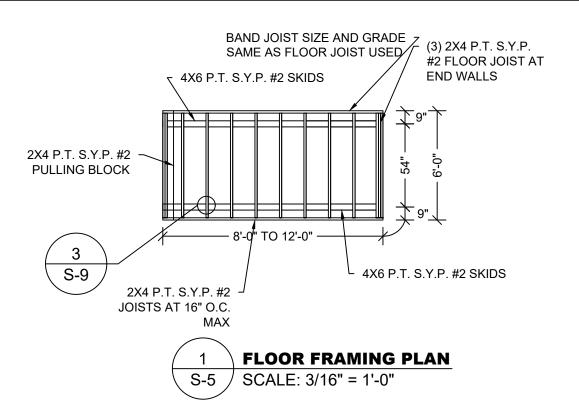
S-4

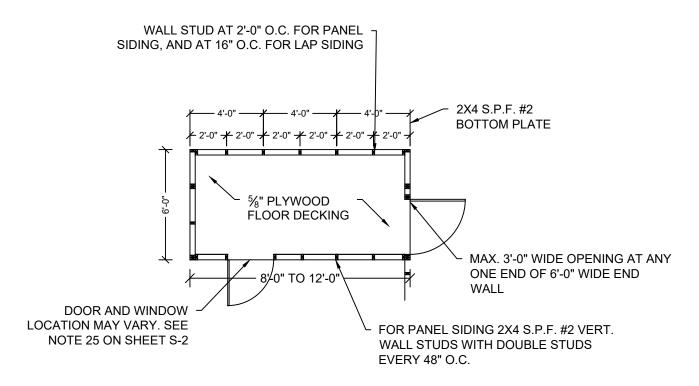
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SHEET 4 OF 12

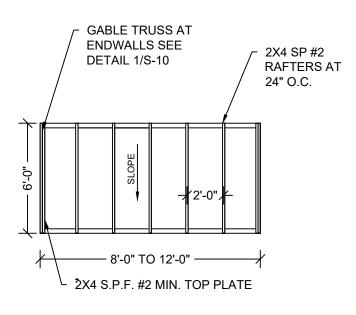
2023-01-27 TOP LINE ENGINEERING, LLC APPROVAL

PLE LEW POINTERS IN PERSONS IN PRINCIPER









FL PE Name: Kent M. Bice FL PE #: 50421 FL COA #: 30468

William E. Neary, III

SMP-51, SMI-79, ICC 5185040

10649 Oakview Pointe Terrace Gotha, Florida 34734

MAN ONAL ENGINE 01/26/23

ROOF FRAMING PLAN SCALE: 3/16" = 1'-0"

> 1552 6TH ST., WINTER HAVEN, FL 33880 (863)865-6502

FRAMING PLANS

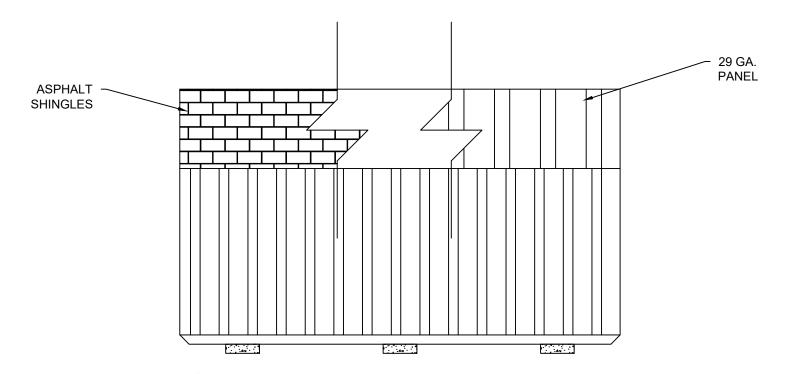
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SCALE: AS NOTED

S-5 SHEET 5 OF 12

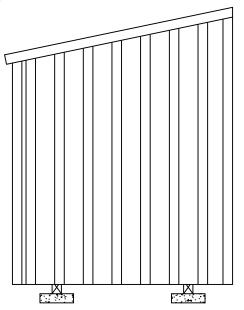
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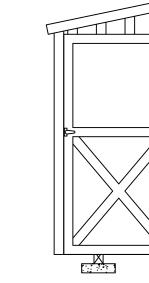
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SIDE WALL ELEVATION WITH PANEL SIDING

SCALE: 1/4" = 1'-0"





SAMPLE UNIT WITHOUT OPENINGS

SAMPLE UNIT WITH 3'-0" DOOR

ENDWALL ELEVATION WITH PANEL SIDING

SCALE: 1/4" = 1'-0"

| SHEARWALL WITH 19/32" T1-11 ¹ OR LP SMARTSIDE STRAND SUBSTRATE PANEL SIDING ² | | | | | | | |
|--|-------------------------------|--------------|--------|--|--|--|--|
| FLOOR WIDTH (FT) | MAX LENGTH OF BUILDING | | | | | | |
| , , | LONG SIDE SHORT END WALL WALL | | | | | | |
| 6'-0" | 3'-0", 4'-0" OR 6'-0" | 2'-0", 3'-0" | 12'-0" | | | | |

NOTES:

- 19/32" T1-11 APA RATED SIDING 303-24" O.C. SHALL BE FASTENED USING 8d COMMON OR DEFORMED (0.131" x 2 1/2") NAILS AT 6" O.C. IN FIELD AND 3" O.C. AT EDGES IN SIDE WALL, AND 3" O.C. EVERYWHERE IN END WALL.
- 2. 19/32" LP SMARTSIDE STRAND SUBSTRATE PANEL SIDING SHALL BE FASTENED USING 8d COMMON OR DEFORMED (0.131" x 2 1/2") NAILS AT 6" O.C. IN FIELD AND 3" O.C. AT EDGES IN SIDE WALL AND 3" O.C. EVERYWHERE IN END WALL
- 3. WINDOWS AND DOORS MAY BE LOCATED ONLY IN THE SHORT SIDE WALL AND END WALL. LIMITATIONS ON THE TOTAL DIMENSIONS SHALL BE BASED ON THE SHEAR WALL HEIGHT TO WIDTH RATIO OF 3.5:1 AND SHALL NOT EXCEED (2/3) OF TOTAL LENGTH OF BUILDING. DOOR AND WINDOW SHALL BE LOCATED SUCH THAT THEY ARE AT LEAST 2'-0" APART IN SIDE WALL, AND AT ANY ONE END OF END WALL.
- EDGE NAILING SHALL BE PROVIDED AT TOP PLATE IN ALL END WALLS.
- PROVIDE BLOCKING AT ALL UNSUPPORTED EDGES OF WALL SHEATHING.

William E. Neary, III SMP-51, SMI-79, ICC 5185040 10649 Oakview Pointe Terrace Gotha, Florida 34734

FL PE #: 50421 FL COA #: 30468 1110/ONAL 01/26/23

FL PE Name: Kent M. Bice

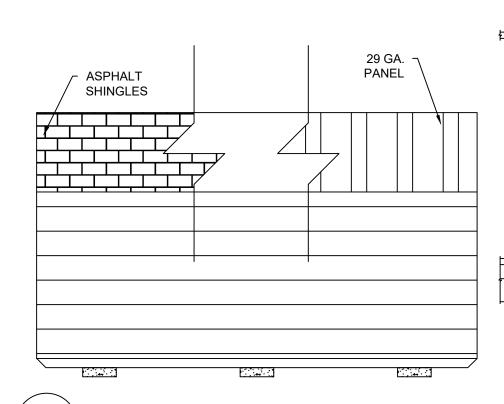
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ELEVATIONS -PANEL SIDING

DATE: 12/08/20

DRAWN BY: RD SCALE: AS NOTED CHECKED BY: KMB SHEET 6 OF 12

SHEET:



SIDE WALL ELEVATION WITH LAP SIDING

2'-0" MINIMUM

WALL TOP PLATE

WALL STUD AT 16" O.C.

WALL BOTTOM PLATE

BAND JOIST

4X6 SKID

- (2) SIMPSON CS18 (43MIL X 1-1/4", GRADE 40 STEEL, G60 COATING) X-STRAP OR EQUIVALENT ON INSIDE FACE OF WALL STUD. ATTACH STRAPS TO WALL TOP & BOTTOM PLATES WITH 0.131" x 2-1/4" NAILS STAGGERED - (4) NAILS IN SIDE WALL, (6) NAILS IN END WALL WITHOUT OPENINGS AND (10) NAILS IN END WALL WITH OPENINGS. STRAP MAY BE WRAPPED AROUND WALL TOP & BOTTOM PLATES.

ALTERNATE: 7/16" APA RATED SHEATHING ON OUTSIDE FACE OF WALL STUD FASTENED WITH 8d COMMON OR DEFORMED (0.131" x 2-1/2") NAILS AT 6" O.C. IN FIELD AND 3" O.C. AT EDGES IN SIDE WALL, AND 3" O.C. EVERYWHERE IN END WALL.

PARTIAL SIDE WALL / END WALL FRAMING ELEVATION WITH LAP SIDING SCALE: NTS

SHEARWALL WITH LP SMARTSIDE LAP SIDING¹

| FLOOR WIDTH (FT) | OPENING | MAX LENGTH OF BUILDING | |
|---------------------|--------------------------|---------------------------|--------|
| | LONG SIDE WALL | SHORT END WALL | |
| 6'-0" | 3'-0", 4'-0" OR 6'-0" | 2'-0", 3'-0" | 12'-0" |

NOTES:

- MIN. 0.45" THICK LP SMARTSIDE 12" BOLD PROFILES DOUBLE 5" FIBER SUBSTRATE LAP SIDING PER ICC-ES ESR 3090, TABLES 2A, 2B, AND 2C.
- ATTACH LAP SIDING TO STUD / SHEATHING WITH 8d SINKER NAILS (0.113"X2-3/8") AT 3/8" FROM EACH END, AND 3 NAILS PER STUD / 16" SPACING -- 3" FROM TOP EDGE, IN THE MIDDLE AND 1-1/2" FROM BOTTOM EDGE.
- NO OPENINGS SHALL BE IN THE TALLEST SIDE WALL
- 4. WINDOWS AND DOORS MAY BE LOCATED ONLY IN THE SHORT SIDE WALL AND END WALL. LIMITATIONS ON THE TOTAL DIMENSIONS SHALL BE BASED ON THE SHEAR WALL HEIGHT TO WIDTH RATIO OF 3.5:1 AND SHALL NOT EXCEED 2/3 OF TOTAL LENGTH OF BUILDING.MAXIMUM OF ONE DOOR AND ONE WINDOW SHALL BE LOCATED SUCH THAT THEY'RE AT LEAST 2'-0" APART IN SIDE WALL, AND AT ANY ONE END OF END WALL.

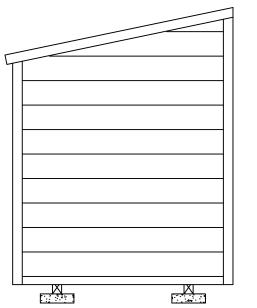
2020 (7TH ED.) W/2021 SUPP

- 5. EDGE NAILING SHALL BE PROVIDED AT TOP PLATE IN ALL WALLS.
- 6. PROVIDE BLOCKING AT ALL UNSUPPORTED EDGES OF WALL SHEATHING.

SCALE: AS NOTED

CHECKED BY: KMB

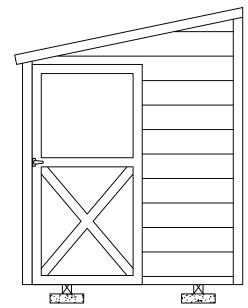
SHEET 7 OF 12



S-6A

SCALE: 1/4" = 1'-0"

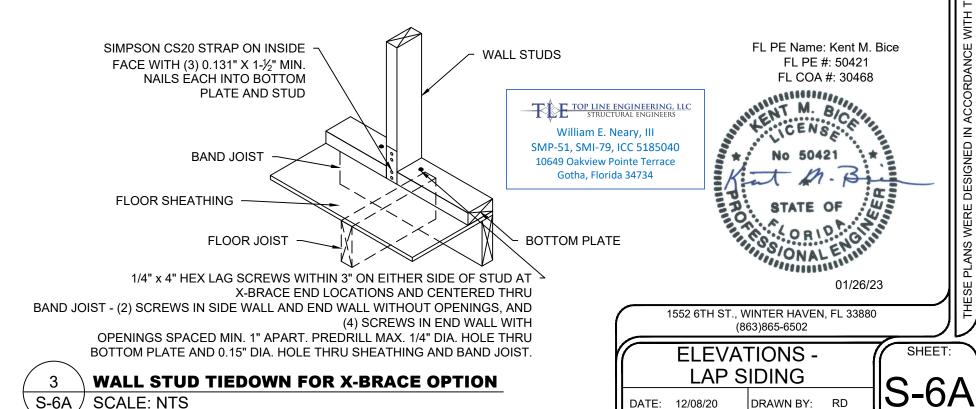
S-6A

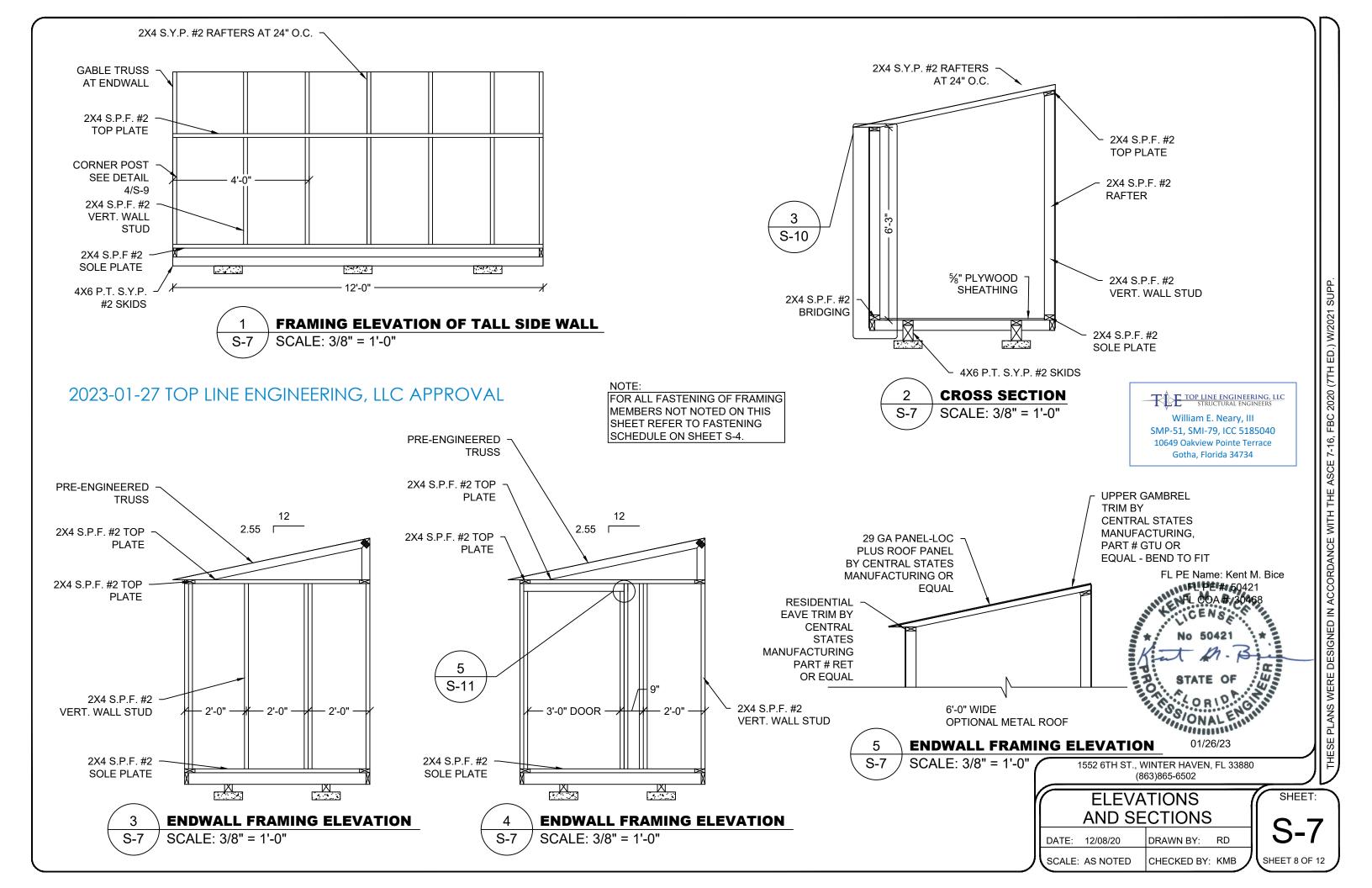


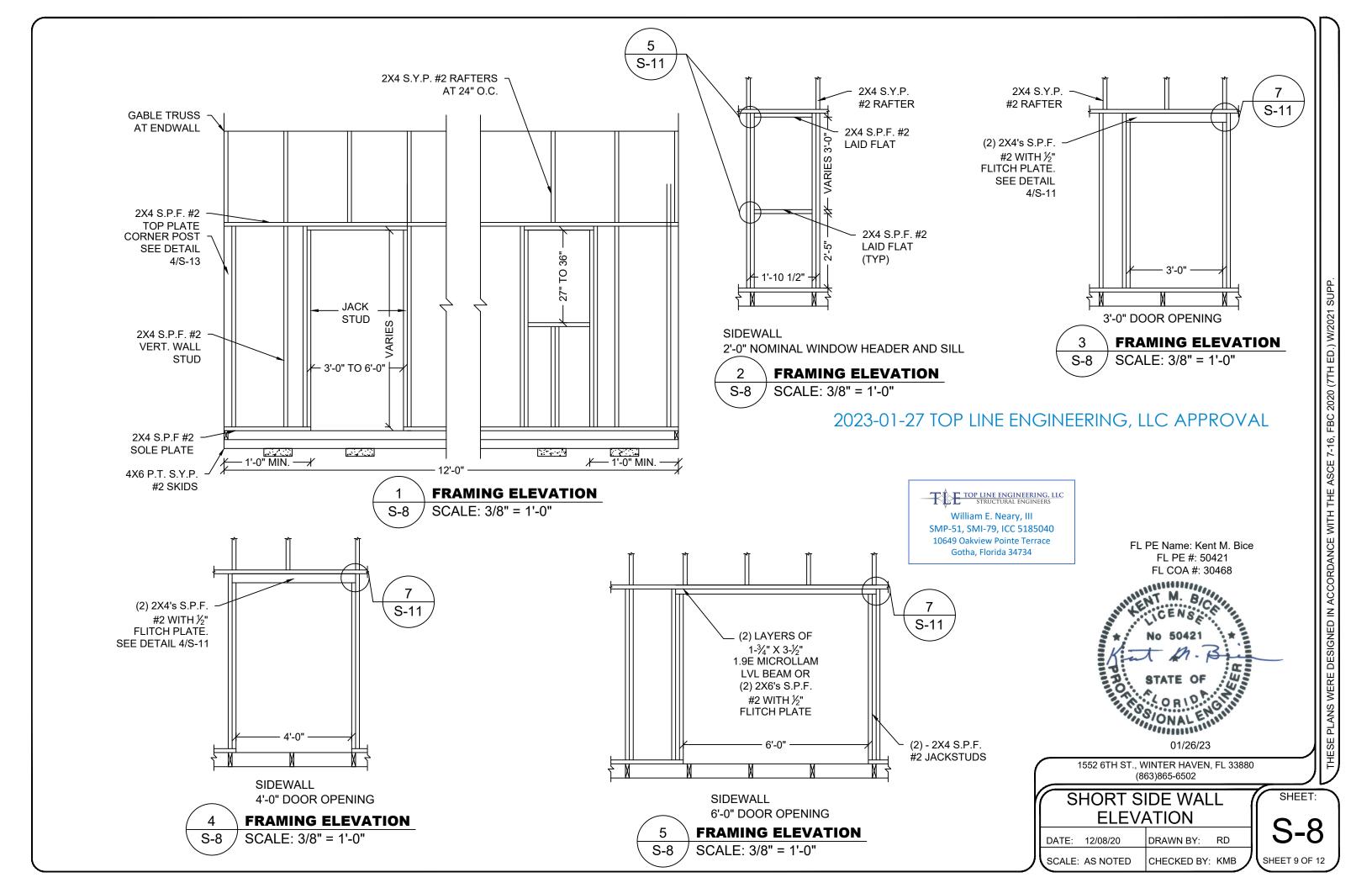
S-6A

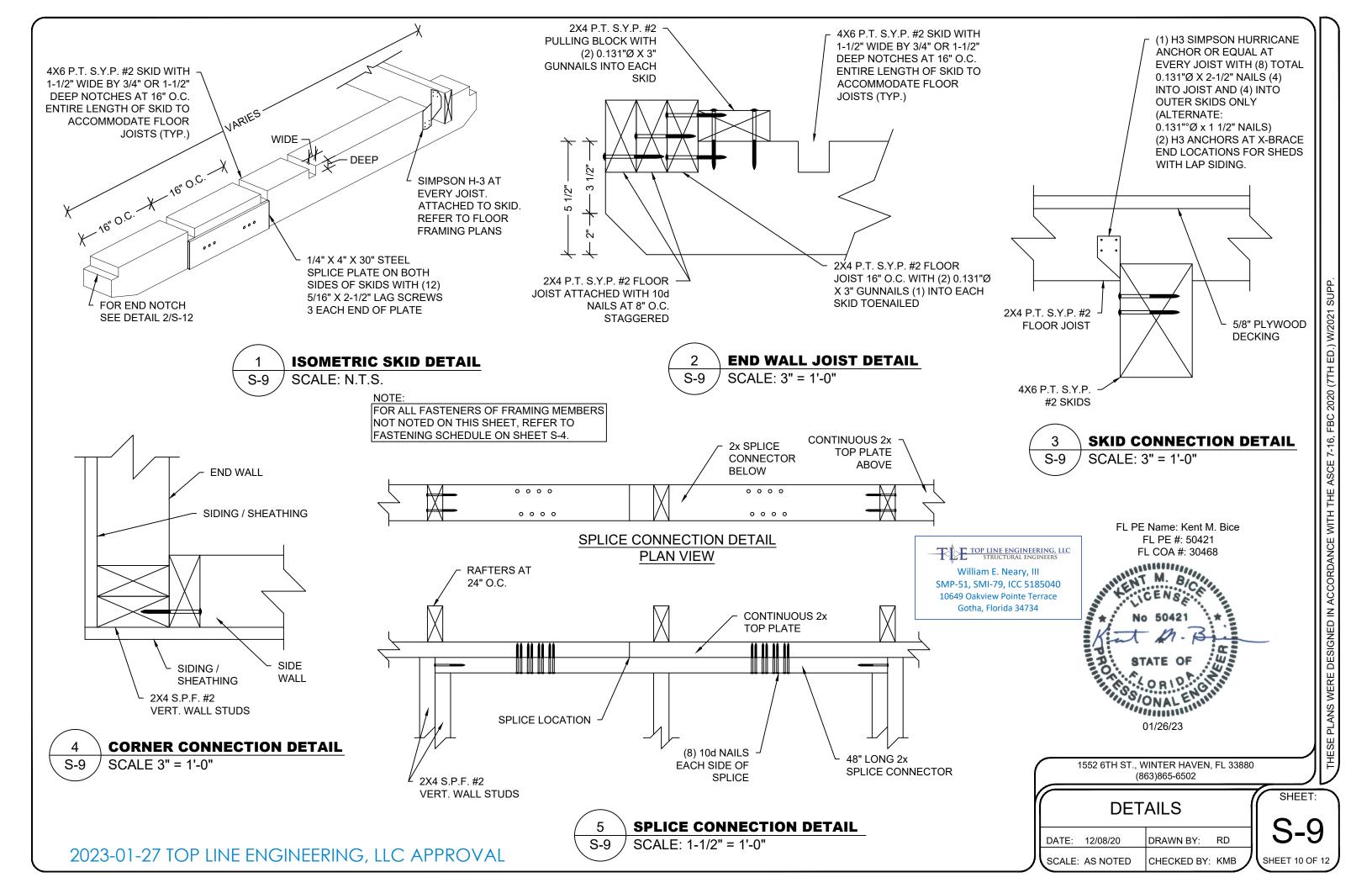
ENDWALL ELEVATION WITH LAP SIDING

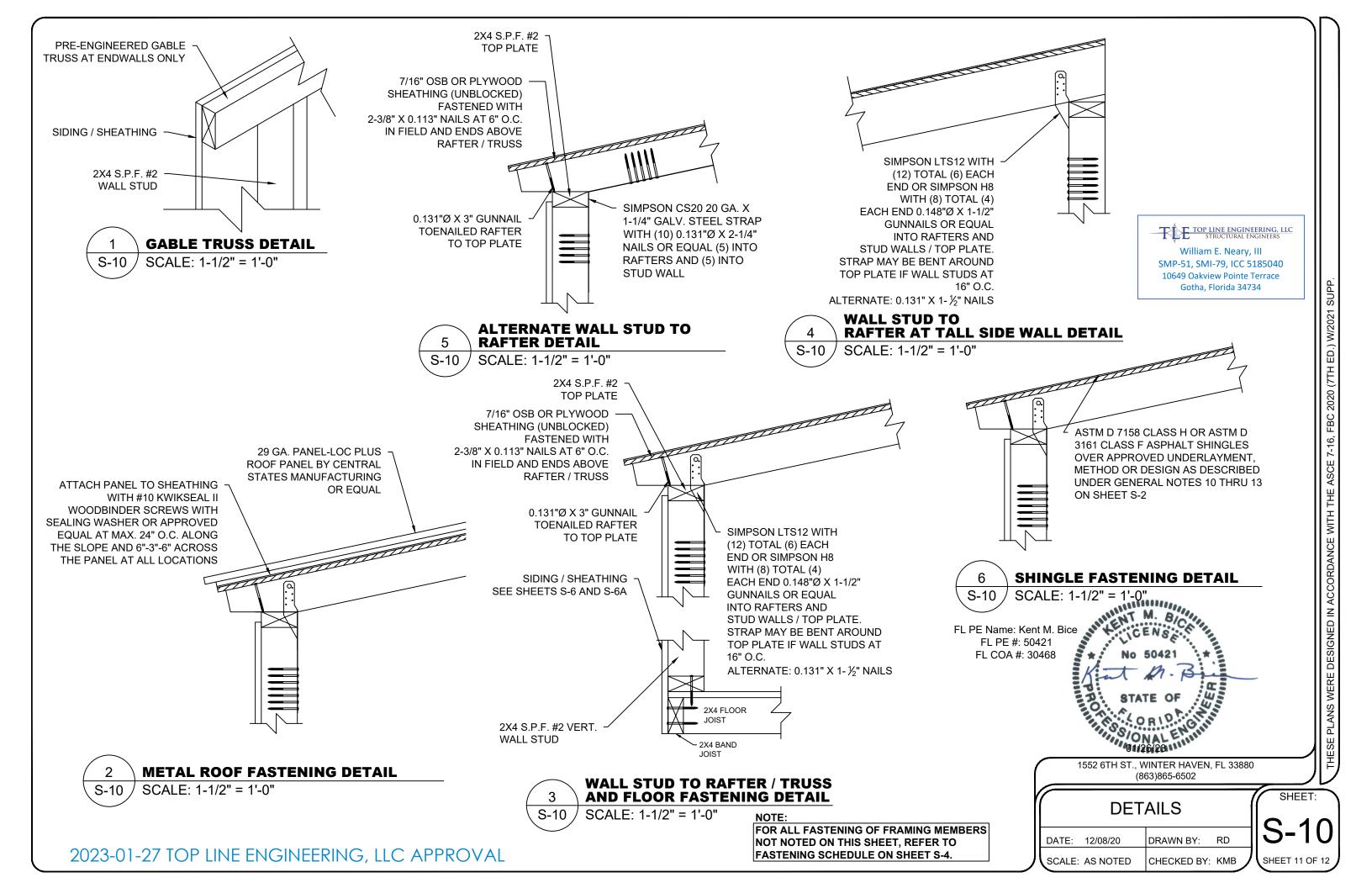
SCALE: 1/4" = 1'-0"

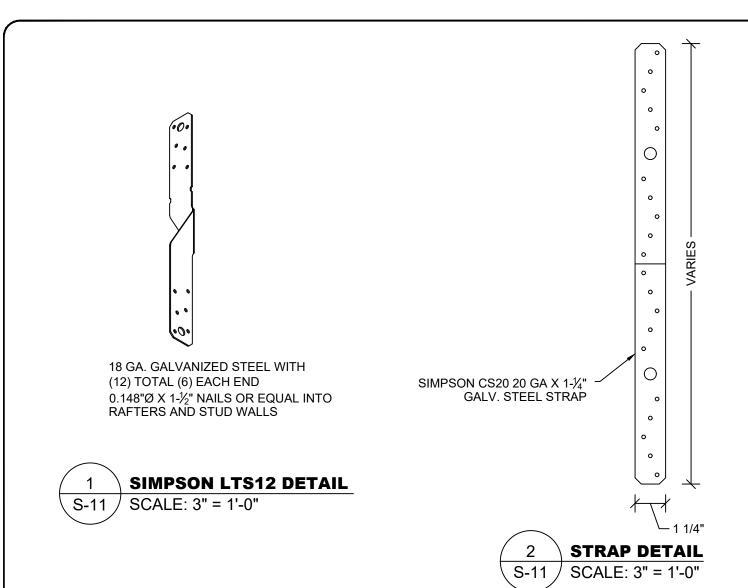


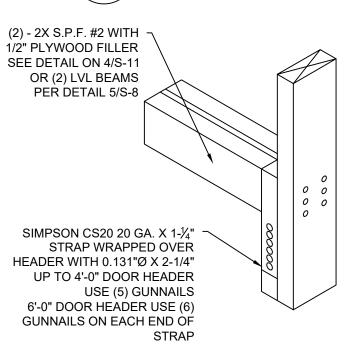


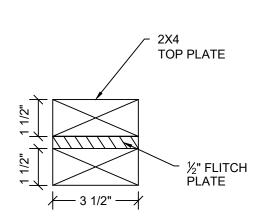




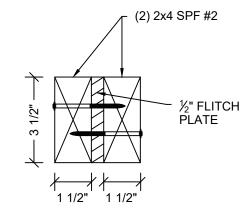












HEADER SECTION SCALE: 3" = 1'-0"

William E. Neary, III SMP-51, SMI-79, ICC 5185040 10649 Oakview Pointe Terrace Gotha, Florida 34734

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SHEET:

FL PE Name: Kent M. Bice FL PE #: 50421 FL COA #: 30468



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DETAILS

RD DATE: 12/08/20 DRAWN BY: SCALE: AS NOTED

CHECKED BY: KMB **SHEET 12 OF 12**

SEE DETAIL ON 3/S-14 FOR MAX 2'-0" WIDE WINDOW (3) 0.131"Ø X 3" **GUNNAILS** EACH END OF **HEADER** 2X4 S.P.F. #2 LAID FLAT

(1) - 2X S.P.F. #2 WITH

1/2" PLYWOOD FILLER

5 **WINDOW HEADER AND SILL DETAIL** S-11 SCALE: N.T.S.

HEADER WITH STRAP

SCALE: N.T.S.