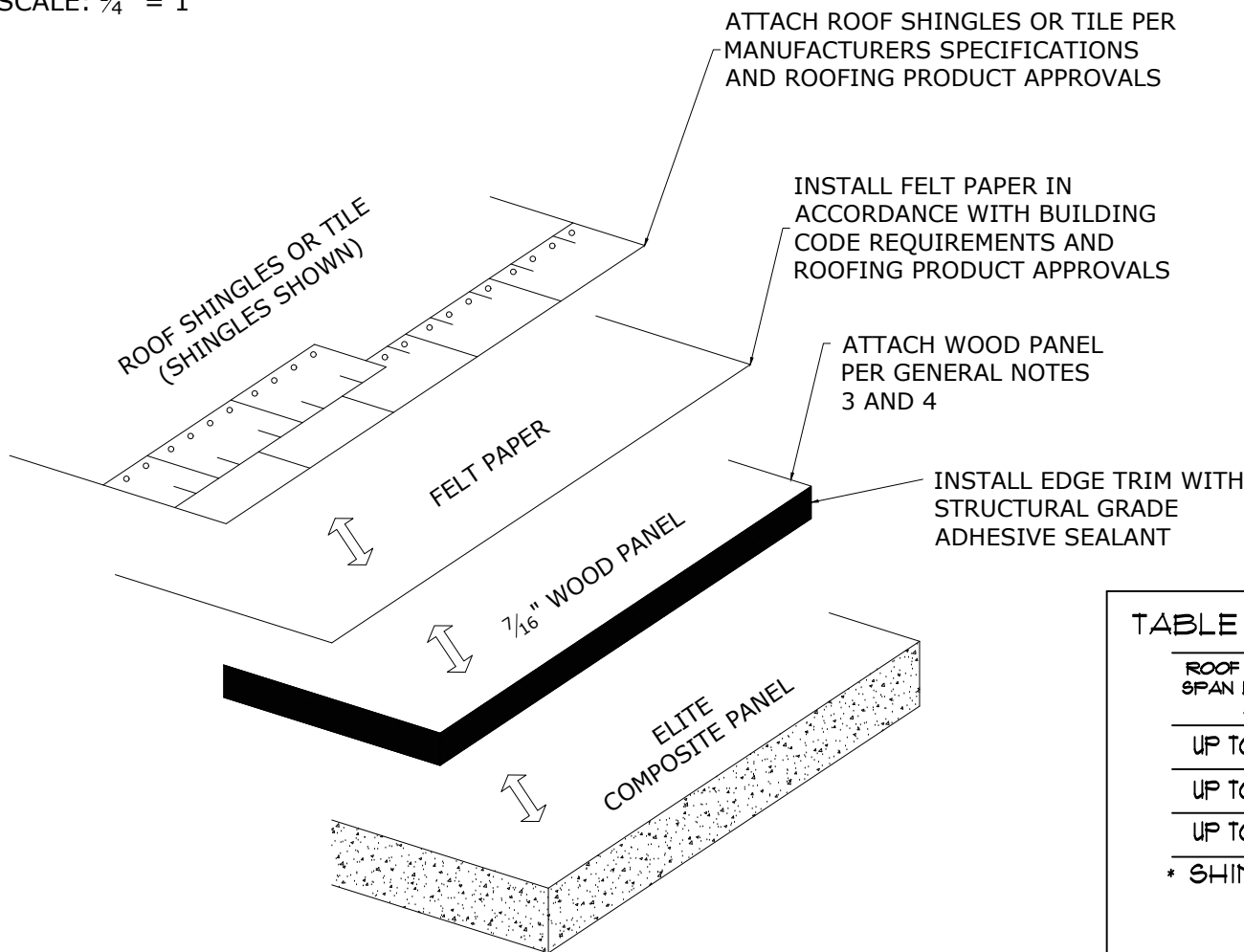


APPLICATION OF WOOD PANEL AND SHINGLES OR TILE

SCALE: 1/4" = 1'



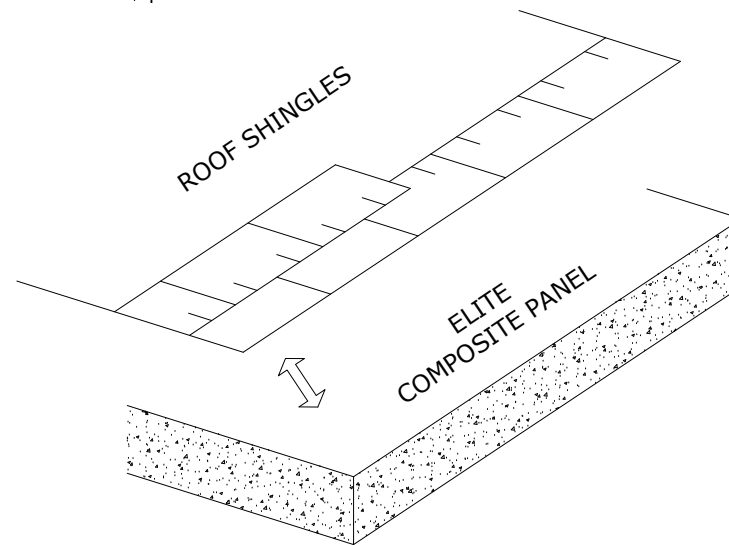
GENERAL NOTES:

1. INSTALL COMPOSITE ROOF PANELS IN ACCORDANCE WITH APPROPRIATE ELITE MASTER PLAN SHEETS & SPAN TABLES. ADD ADDITIONAL 10PSF ABOVE AND BEYOND NORMAL DESIGN PSF USED IN SPAN CHARTS.
2. SEAL ALL SEAMS WITH STRUCTURAL GRADE ADHESIVE SEALANT, AND CLEAN ROOF OF ANY DIRT, GREASE, WATER OR OIL.
3. APPLY PL PREMIUM OR LIQUID NAIL IN CONTINUOUS BEAD TO COMPOSITE ROOF PANELS @ 6" O.C.
4. INSTALL 7/16" WOOD PANEL ON COMPOSITE PANEL, FASTEN WITH 1" LG. DRYWALL SCREWS @ 6" O.C. FOLLOWING ADHESIVE PATTERN
5. INSTALL FELT PAPER IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS AND PRODUCT APPROVALS
6. INSTALL SHINGLES OR TILE IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS AND PRODUCT APPROVALS
7. STARTER ROWS OF SHINGLES SHALL HAVE TWO LINES AT MID TAB AREA. SHINGLE ROW INSTALLED WITH TABS FACING IN THE UPWARD DIRECTION OF THE ROOF SLOPE
8. SUBSEQUENT ROWS OF SHINGLES INSTALLED WITH THE TABS FACING IN THE DOWNWARD DIRECTION OF THE ROOF SLOPE WITH ONE LINE OF ADHESIVE UNDER THE SHINGLE AT MID COVERED AREA
9. ADHESIVE SPECIFICATIONS:
 - USE PL PREMIUM OR O.S.I. RT-600 (2) CONTINUOUS LINES PER SHINGLE 4" - 6" O.C.

10. THIS DETAIL ONLY VALID WHEN SIGNED AND SEALED BY C.T. "GUS" TARNOWSKI, P.E. THIS SHEET SHALL CONTAIN A RED 'ELITE' STAMP OVER THE PLAN FACE OR IS NOT VALID FOR USE.
11. ** ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION.
12. CONTRACTOR TO MODIFY DESIGN IN ACCORDANCE WITH MORE CRITICAL LOCAL CODES AS REQUIRED.
13. ADHESIVE TO BE 50 YEAR EXTERIOR INDUSTRIAL GRADE MIN.
14. PANELS TO BE ELITE ALUMINUM CORPORATION ONLY. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

ADHESIVE APPLICATION OF SHINGLES

SCALE: 1/4" = 1'



GENERAL NOTES:

THIS DETAIL HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2014 FLORIDA BUILDING CODE INCLUDING THE HVHZ. DETAIL VALID FOR THE FOLLOWING CONDITIONS USING ASCE 7-10:
 V=110MPH OR LESS, EXPOSURE 'B' OR 'C', MRH=15', RISK CATEGORY II, ROOF PITCH 0 TO 3/12 FOR SHINGLES AND 2.5/12 TO 4/12 FOR TILE, Kzt=1.0, Kd=0.85, ROOF AREA 50 SQFT OR GREATER.
 -25PSF GROSS UPLIFT ON TILE (LEEWARD NORMAL TO RIDGE GOVERNS USING MFRS SECTION 6.5 OF ASCE 7-10)
 ENGINEER SEAL CERTIFIES TILE PLACEMENT FOR UPLIFT ONLY. REFER TO ADDITIONAL ENGINEERING FOR SPAN LENGTHS AND OTHER CONNECTION CRITERIA WHICH MAY APPLY. INSTALLATION PROCEDURE AS DESCRIBED HEREIN MUST BE FOLLOWED TO ENSURE INTEGRITY OF SPAN LENGTHS AS TABULATED ELSEWHERE.
 EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

OUTLINE SPECIFICATIONS:

MATERIALS:
 1. TILES: SPANISH 'S', LIFETILE BERMUDA FLAT PORTLAND CEMENT CONCRETE, OR PERMATILE METAL GALVALUME MANUFACTURED BY MONIER ROOF TILE OR ENTEGRA ESTATE 'S'
 2. ROOF TILE (NOA NO. 12-0222.02) OR OTHER EQUALS.
 3. EAVE CLOSURE: PREFABRICATED EDPM SYNTHETIC RUBBER (ASTM-C-1056).
 4. ROOF PANELS: EPS INSULATED SANDWICH TYPE WITH ALUMINUM FACINGS, MANUFACTURED BY ELITE PANEL PRODUCTS. PANEL SPANS ARE LISTED IN ELITE'S MASTER PLAN. PANELS ARE LIMITED TO ONE STORY BUILDING HEIGHTS. ROOF HEIGHTS GREATER THAN ONE STORY REQUIRE ADDITIONAL SPECIFIC ENGINEERING REVIEW.
 5. ADHESIVES: a) P81-901 IS A ONE PART POLYURETHANE SEALANT, MANUFACTURED BY POLYMERIC SYSTEMS, INC. OR b) PL PREMIUM IS A ONE PART URETHANE BASED CONSTRUCTION ADHESIVE BY CHEMREX, INC. ADHESIVE SHALL BE HANDLED AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 NOTE: ALL MATERIALS TO BE PRODUCT APPROVED AND RATED FOR DESIGN PRESSURES SPECIFIED HEREIN BY MANUFACTURER FOR INSTALLATION METHOD ILLUSTRATED. ADDITIONAL BONDING SURFACE AREA MAY BE REQUIRED TO MEET MINIMUM MANUFACTURER REQUIREMENTS.

INSTALLATION PROCEDURE:

1. PRIOR TO TILE PLACEMENT, ROOF PANELS SHALL BE SHORED. THE NUMBER OF SHORING LINES TO BE AS PER TABLE A. SHORE LINES SHALL PROVIDE FULL BEARING ALONG EACH PANEL WIDTH. CAMBER ALL PANELS UPWARD ALONG SHORE LINES TO ALLOW FOR SUPERIMPOSED TILE WEIGHT AS PER TABLE A. SHORING TO REMAIN IN PLACE FOR AT LEAST 7 DAYS DURING THE ADHESIVE CURING PERIOD.
2. TILES TO BE PLACED AS PER PRODUCT APPROVAL

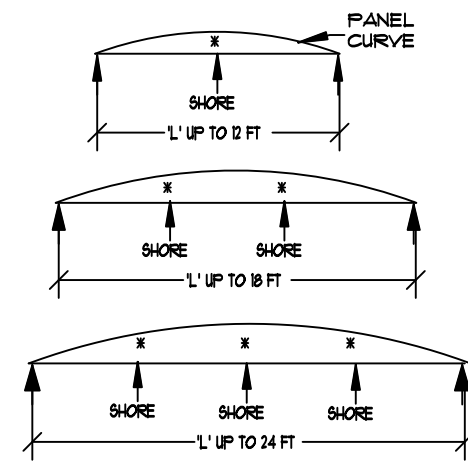
TILE INSTALLATION:

- CAUTION 1: AVOID EXCESSIVE TILE STACKING ON ROOF PANELS. LIMIT STACK HEIGHT TO 4 TILES. LOCATE OVER SHORE LINES WHEN POSSIBLE.
 CAUTION 2: ROOF TRAFFICING DIRECTLY ON TILES SHOULD BE AVOIDED.

TABLE A (APPLIES TO TILE ROOF ONLY)

ROOF PANEL SPAN LENGTH L	NUMBER OF SHORING LINES	CAMBER (UP) DEFLECTION
UP TO 12 FT.	1	1/4" UP
UP TO 18 FT.	2	3/8" UP
UP TO 24 FT.	3	1/2" UP

* SHIM DEFL TO FIT PANEL CURVATURE



C.T. "GUS" TARNOWSKI
 # PE0050662



VALID FOR (1) JOB(S) ONLY
 VALID ONLY WITH RAISED ENGINEER SEAL

ENGINEERING BUSINESS CA 00009677
TARNOWSKI ENGINEERING
 CIVIL & STRUCTURAL ENGINEERING
 7360 N.W. 5th Street Phone (954) 727 - 2027
 Plantation, FL 33317 Fax (954) 727 - 9644

ELITE ALUMINUM CORPORATION
 4650 LYONS TECHNOLOGY PARKWAY
 COCONUT CREEK, FL 33073
 Building Innovation
ELITE
 Panel Products

TILE OR SHINGLE ROOF ATTACHMENT

REMARKS	DRWN	CHKD	DATE
FBC2014 ISSUE	WTF	CT	07/01/15

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1 OF 1

C. TARNOWSKI, P.E.