

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION RC-137

Effective June 1, 2014

*The following product has been evaluated for compliance with the wind loads specified in **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **August 2015**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

TEX-LOCK 1500 Roof Panel manufactured by:

PetersenDean
5050 Timber Creek
Houston, Texas 77017
Telephone: (281) 486-1660

is acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

The TEX-LOCK 1500 Roof Panels are manufactured from 24 gauge coated steel conforming to ASTM A792, Grade 50, with a minimum yield strength of 50 ksi. The panels are standing seam and include nailing clips and a 1 1/2" tall rib, and provide 17" coverage.

LIMITATIONS

Design Wind Pressures: Design wind pressure limitations are specified in Table 1.

Roof Decking: The TEX-LOCK 1500 roof panels shall installed over nominal 1 5/32" plywood decking (minimum).

Roof Deck Attachment: Roof decking shall be attached to roof framing to resist the required wind uplift pressures of the International Residential Code and the International Building Code.

Installation Over an Existing Roof Covering: Installation over an existing roof covering is limited to a maximum of one existing layer of composition shingles, wood shingles or shakes, built-up roofing, or roll roofing. If the roof panels are attached directly to the roof deck, then the existing roof deck shall be nominal 1 5/32 inch plywood. Note: Inspection of the existing roof deck must be made before installing the roof panels. The condition of the existing roof deck must be acceptable to receive the roof panels before the roof panel installation can proceed.

Roof Slope: The TEX-LOCK 1500 roof panels shall not be installed on roofs with a roof slope less than 2:12.

Table 1

Design Wind Pressure	Panel Clip Spacing	Clip Fasteners
-139.3 psf	12 inches on center	Two (2) #10-12 x 1 ½" per clip

INSTALLATION INSTRUCTIONS

Panels: TEX-LOCK 1500 Roof Panels shall be attached in accordance with Table 1. Refer to Figures 1 through 5 for installation details.

Underlayment: A minimum of one layer of No. 30 (Type II) asphalt felt shall be used. The underlayment used shall comply with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. The felt shall be installed with 6-inch side laps and 3-inch end laps. The underlayment shall be applied with corrosion-resistant fasteners in accordance with the manufacturer's installation instructions. Fasteners shall be applied along the overlaps not farther apart the 36 inches on center. The underlayment is optional if continuous purlins are installed over an existing roof covering. Note: An optional radiant barrier may be installed beneath the panels in conjunction with the underlayment.

Anchorage:

To Roof Decking: The panels shall be fastened in accordance with Table 1 with two No. 10-12, 1 ½" long, pancake-head screws (Dynamic Fasteners) securing each clip. Clips shall be spaced at a maximum of 12 inches on center. If the panels are set over an existing roof covering, then No. 10-12, 2" long, pancake-head screws (Dynamic Fasteners) are required. The fasteners shall be long enough to ensure a minimum penetration of ¼ inch below the existing plywood roof decking.

Alternative Fasteners: Substitution of equivalent fasteners shall meet the following requirements:

- No. 10-12 Pancake Head screws manufactured by Dynamic Fasteners, Inc.
Ultimate withdrawal (pullout) ≥ 300 lbs. in 1⁵/₃₂ inch plywood

Note: The manufacturer's installation instructions shall be on the job site during the installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.

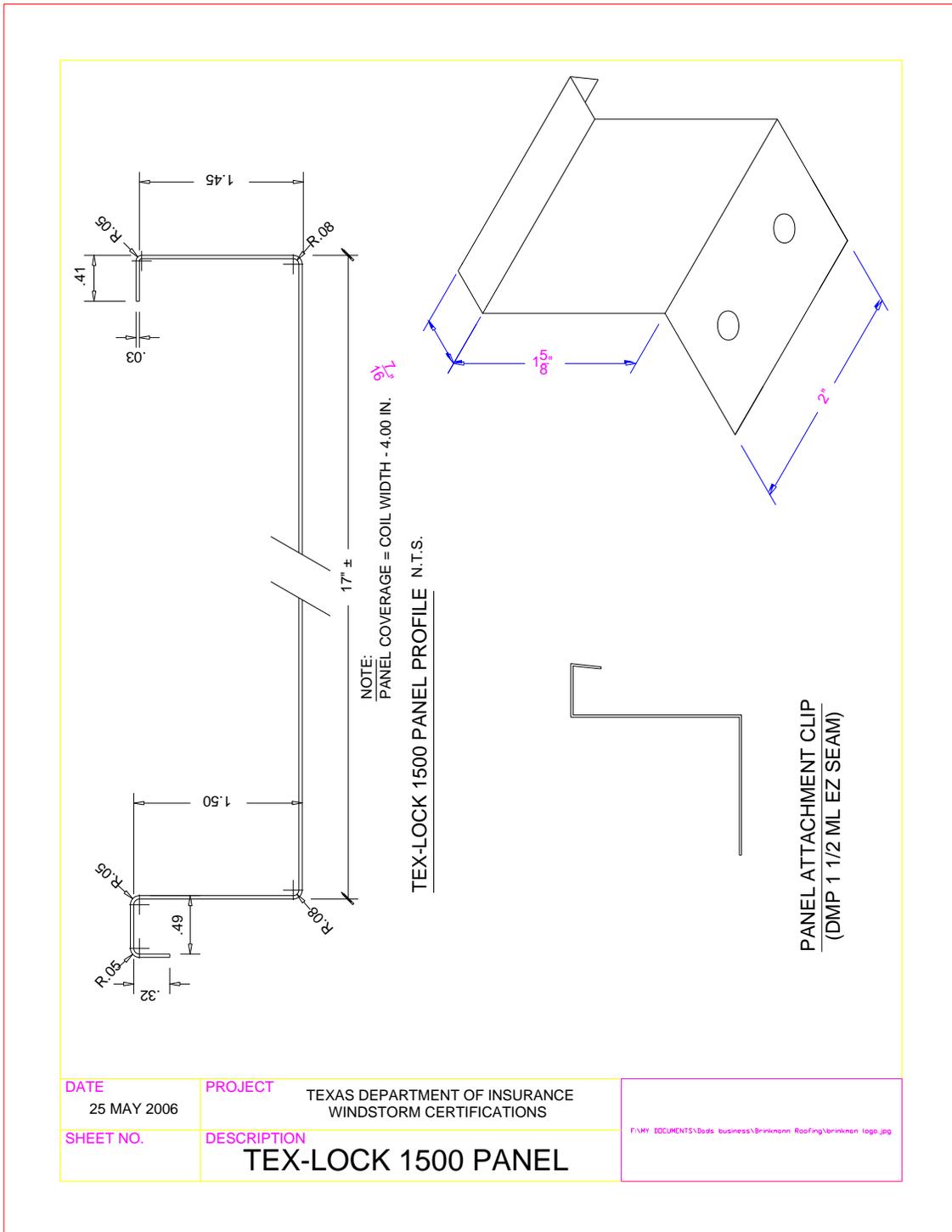


FIGURE 1

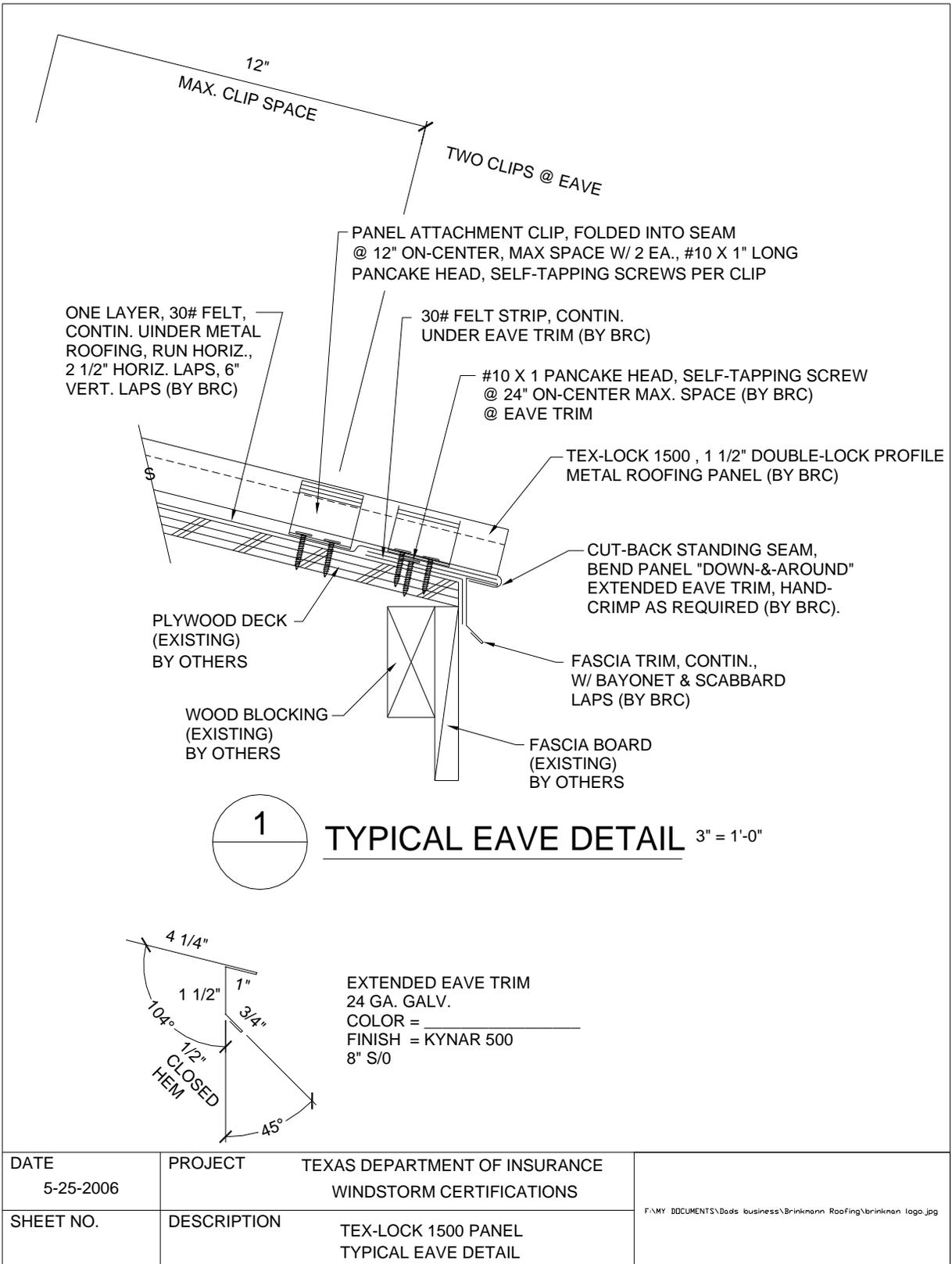


FIGURE 2

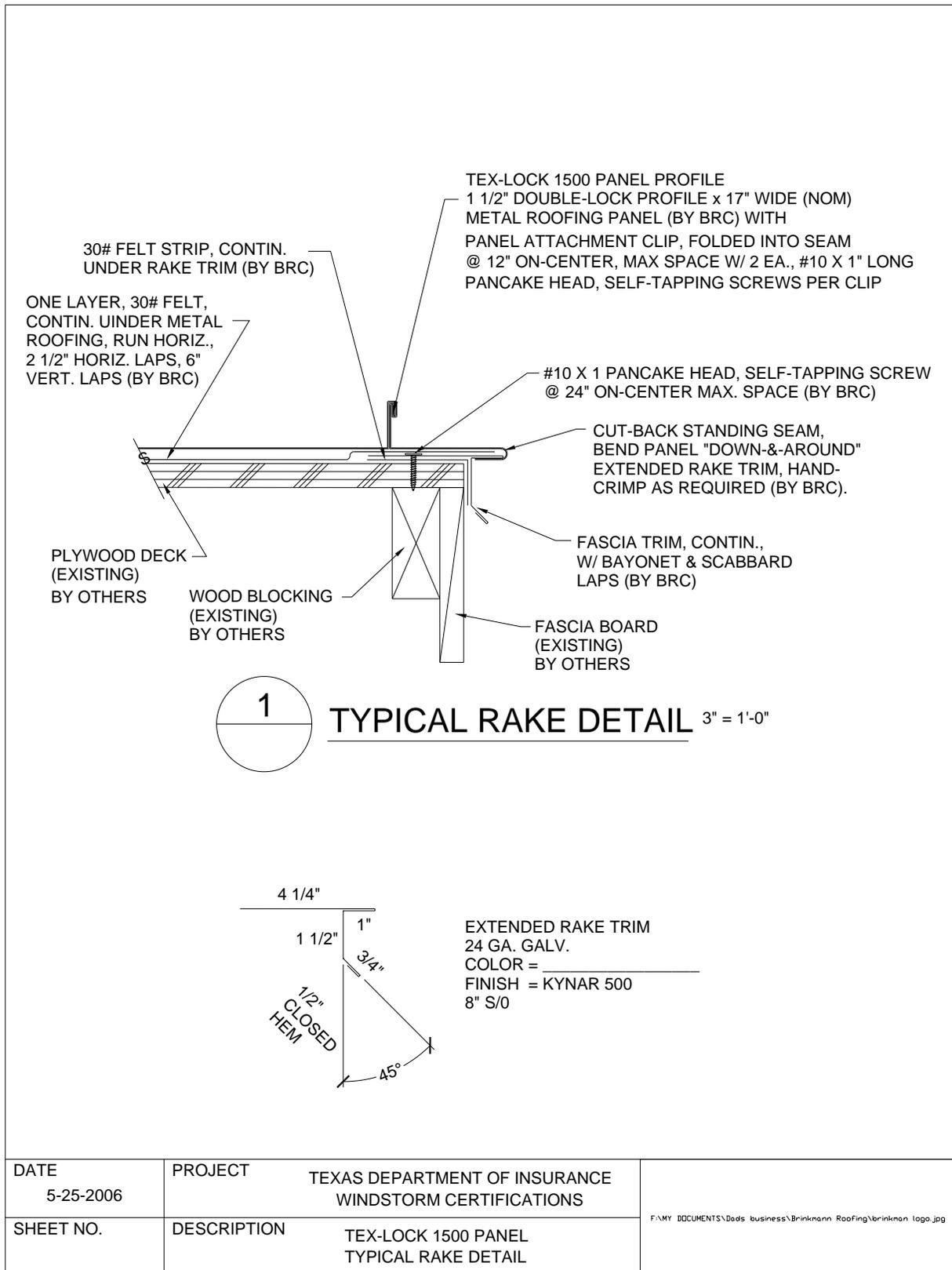


FIGURE 3

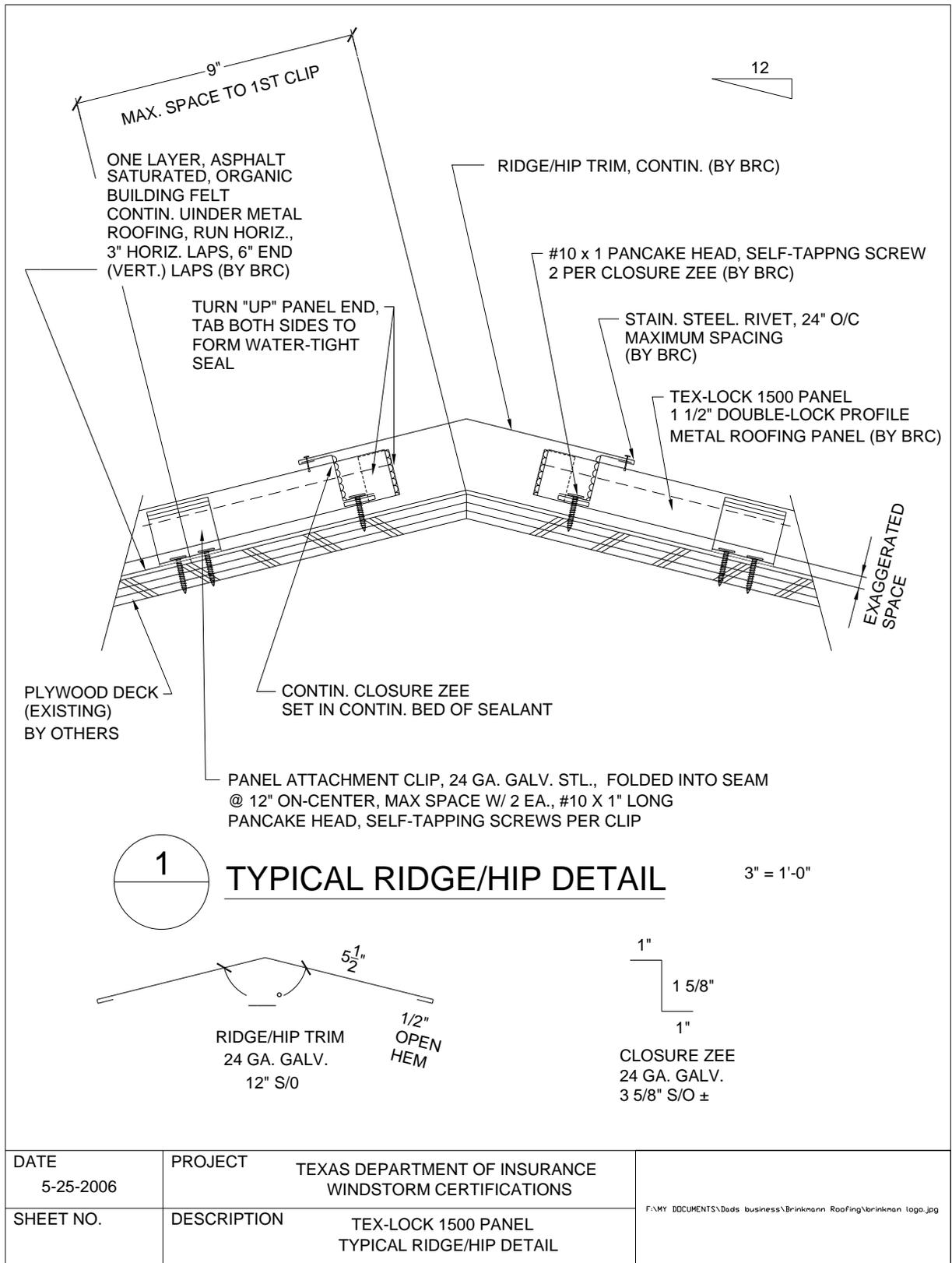


FIGURE 4

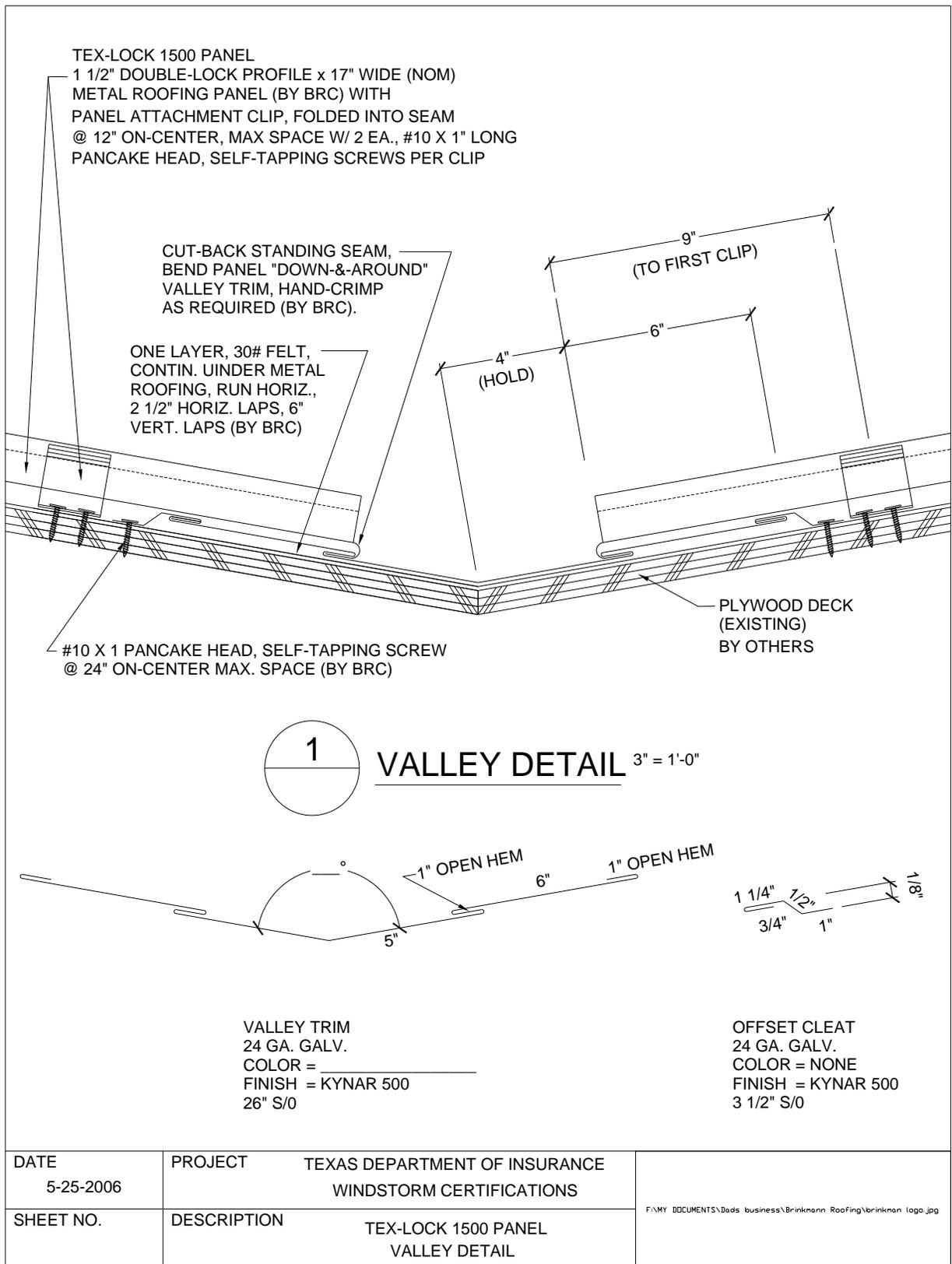


FIGURE 5