



Weaver Construction Management, Inc.  
3679 S. Huron St., Suite 404  
Englewood, CO 80110  
Phone: (303) 789-4111 FAX: (303) 789-4310

## SUBMITTAL TRANSMITTAL

27 October, 2011

WGC Submittal No. 07501 -001.A

**PROJECT:** HAROLD D. THOMPSON W.R.F.  
9001 Birdsall Road.  
Fountain, Colorado 80817  
Job No. 2908

**ENGINEER:** GMS, Inc.  
611 North Weber St. # 300  
Colorado Springs, CO 80903  
719-475-2935 Roger Sams

**OWNER:** Lower Fountain Metropolitan  
Sewage Disposal District  
901 South Santa Fe Avenue  
Fountain, CO 80817  
719-382-5303 James Heckman

**CONTRACTOR:** Craft Corporation. (C.C.)  
6834 West 76<sup>th</sup> Place  
Arvada, CO 80003  
303-229-0483 Chris Stiner

**SUBJECT** Craft Corp "Submittal Response/Clarification;  
RMS, Inc. Submittal comments (September 23, 2011)  
Metal Roof Panels Stamped for Spanish Tile Appearance;

- Met-Tile Panel - 1-1/2" high x 7.2" pitch x 0.7" deep by 36"
- Roof Layout for 36" Met-Tile Simulated Clay roofing Tile Panels
- Detail Sheets:
  - Ridge and Hip Accessory;
  - Cap for use on Hips and Ridge;
  - Standard Eave flashing;
  - Standard 22 gauge Wall Panel Profile;
  - Vented Metal Soffit Panel, Detail.
  - Box Gutter Profile: Non-Seamless System - 24 ga.
  - Metal Sales Universal Closure (Polyethylene Foam)
    - See: Detail Sheet #5 and #12;
- Product Data & Detail Drawings:
  - Additional information and installation details for information;
- Attached Product Samples:
  - Sample of Wall Profile (only) - 24 Gauge material, (3 each);
  - Sample of 22 Gauge material for comparison. (3 each);

**SPEC SECTION:** 07501 Metal Roof and Wall Panels.  
**PREVIOUS SUBMISSION DATES:** September 06, 2011;

**DEVIATIONS FROM SPEC:**  YES  NO See Attached.

CONTRACTOR'S STAMP: This submittal has been reviewed by Weaver General Construction and approved with respect to the means, methods, techniques, & safety precautions & programs incidental thereto. Weaver General Construction also warrants that this submittal complies with contracted documents and comprises on deviations thereto.

Contractor's Stamp:

Engineer's Stamp:

Date: 10-27-2011

Reviewed by: *Harold A. Myers*

( ) Reviewed Without Comments

(X) Reviewed With Comments

ENGINEER'S

COMMENTS:



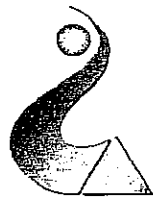
HAROLD D. THOMPSON REGIONAL  
RECLAMATION FACILITY  
9001 Birdsell Road  
Fountain, Colorado 80817

**Section # 07501 – Metal Roof and Wall Panels.**  
Submittal 07501-001.A

Submitted by: Craft Corp. Inc.

Contractors Review Comments: Deviations from the Specification / Drawings,  
Engineer to verify:

- 
1. Craft Corporation response to GMS review comments is attached for review.
  2. Deviations:
    - Craft Corporation is proposing a 22 gauge wall panel in-lieu of the 20 gauge specified. (07501.2.2.B.2)
  3. Two Wall samples are being provided by Craft Corp:
    - The 24 gauge sample wall panel is for the wall Profile only
    - The 22 gauge material sample is for representation of wall panel gauge thickness in-lieu of the 20 gauge.
      - Note: A sample of the proposed panel texture (only) was previously submitted. This sample was "Copper in appearance".
      - Color samples were previously submitted as Firestone color chips for Color reference only.
  4. Note; Layout drawings will be submitted at a later date.
    - Craft Corp has requested approval on the materials prior to proceeding with the layout drawings.
  5. Inquiry: Question (to GMS): Is the Met-Tile roof panel system an acceptable roof system to withstand the anticipated snow and ice conditions found in Colorado?
    - Are there concerns of the roof system "flexing" under snow and wind loads?
      - Flexing that would cause water leakage and deterioration of the fasteners. This wear of the panels has resulted in the need for re-anchoring of the panels to correct the enlarging holes.
  6. Drawing NW-2 Note:
    - *Vented metal Soffit Panel.*
    - Craft Corp has proposed the New Tech Machinery Corp:
      - FWM Perforated Panel (net free area per 12" = 2.65 Sq. Inch.)
      - 22 ½" x 48" Panels.
  7. Drawing HW-2 Note:
    - *Min. 6" Box Rain Gutter*
    - Craft Corp has proposed the Non-Seamless System – 24 Gauge Box Gutter.
  8. End of Review



# CRAFT CORP

Construction Excellence

16280 Pine Valley Road, Pine Grove, CO 80470 Phone 303.954.9930 Fax 720.588.6275

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October 6, 2011

Weaver Construction Management, Inc.  
Attention: Mr. Wes Weaver, President  
3679 South Huron Street, Suite 404  
Englewood, CO 80110  
wes@weavergc.com

RE: Submittal Response/Clarification of Harold D. Thompson Regional WRF WGC Job No. 2908

Dear John,

Craft Corp received your submittal response and would like to clarify the portion referencing the exterior wall panel application.

The original proposal submitted April 25<sup>th</sup> provided for the first of two options:

- 1) Metal Roof Panels:  
Smooth finish Standing Seam Roof System  
Or  
Embossed Tile Facsimile Roof Panels
- 2) Metal Wall Panels:  
Smooth faced exterior wall panels to be same as roof  
Or  
Textured exterior wall panels

In response to the letter from GMS, Inc. we are providing the following:

- 1) Met-Tile, Inc. Roof Panels (No Exception Taken)  
Color: Morocco Red

Our original proposal provided for the Standing Seam option with matching wall panel.

Craft Corp interpreted the wall requirements were to match the roof.

Once the second option was determined as Stucco Embossed Met-Tile, Craft Corp interpreted the wall system to be Stucco Embossed to match the roof. The same system profile was submitted with Stucco Embossed texture.

Craft Corp was never informed that the wall system was to become the Varco Pruden profile.

- 2) Premium Panels, Inc. Snap 675 Profile (Rejected) - *Not used.*

In response to the unknown application it references the original panel required to match the Standing Seam Roof as a wall application. Once again no directive for a change in wall application was provided.

Craft Corp did provide the Standing Seam wall application in a Stucco Embossed Textured finish to match Met-Tile Stucco Embossed finish.

The only product available for this application was a Firestone products supplier. The color chips provided were referencing colors from Firestone available in a Stucco Embossed texture.

3) Architectural Metals Specialties, Inc. Submit Specified Item

Craft Corp provided a single color chip that was Copper in appearance with a Stucco Embossed finish. This chip was provided as a texture sample only. No other application applies.

4) Firestone Building Products Company, LLC – Rejected

The Stucco Embossed material texture was available for production of the wall system. When Standing Seam profile was submitted and rejected the product that was submitted was still viable for the flush panel option #2.

Craft Corp can field form this material in a profile virtually the same as the profile from Varco Pruden with the only difference being the material gauge.

Our system provides a twenty two gauge Stucco Embossed Flush Panel with a 16" reveal.

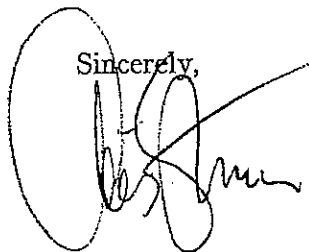
Our panel system can be jobsite formed, which creates multiple benefits listed as follows:

There are multiple benefits to jobsite forming versus factory formed components. The ability to schedule more than one jobsite panel run, at any given time, provides accurate condition layout to specific areas that have been completed and in turn ready for installation. As the project continues to progress any unforeseen changes or delays due to jobsite problems can be mitigated, solved, and addressed with minimal effect.

Factory Formed Systems leave virtually no options for changes. The project conditions must be complete in order for the precise dimensions required to be investigated, determined need to be established, order submitted, production scheduled, delivery arranged, and area provided at the jobsite for safe storage. With winter approaching, shipping delays can be anticipated, jobsite congestion resulting in multiple trades vying for limited space, create potential for stored material to require adequate protection against potential damage. Adverse weather conditions, such as snow accumulation, limits access and could require additional storage area for moving snow to uncover crates. Jobsite roll forming requires much less staging and has less effect on other trades.

We apologize for any confusion, and we hope to resolve this issue so approved shop drawings can be generated as soon as possible.

Sincerely,



Chris Stiner  
Craft Corp



**GMS, INC.**  
CONSULTING ENGINEERS  
611 NORTH WEBER, SUITE 300  
COLORADO SPRINGS, COLORADO 80903-1074

TELEPHONE (719) 475-2935  
TELEFAX (719) 475-2938

EDWARD D. MEYER, P.E.  
ROGER J. SAMS, P.E.  
GREGORY R. WORDEN, P.E.  
THOMAS A. McCLERNAN, P.E.

KEN L. WHITE, P.L.S.  
DAVID R. FRISCH, P.L.S.  
MARK A. MORTON, P.E.  
JASON D. MEYER, P.E.

September 23, 2011

Mr. Wes Weaver, President  
Weaver Construction Management, Inc.  
3679 South Huron Street, Suite 404  
Englewood, CO 80110

*Via Email to: wes@weavergc.com*  
*Hard Copy to Follow*

Re: Harold D. Thompson Regional Water Reclamation Facility (HDTRWRF)  
Lower Fountain Metropolitan Sewage Disposal District (LFMSDD)

Dear Wes:

Reference is made to your shop submittal identified as follows:

Submittal No.:	07501-001
Date of Submittal:	September 8, 2011
Title:	Metal Roof and Wall Panels
Specification Section:	07501
Manufacturers:	Met-Tile, Inc.; Premium Panels, Inc.; Architectural Metals Specialties, Inc.; Firestone Building Products Company, LLC

Enclosed, stamped as described below is one (1) copy of the referenced submittal. Our comments are as follows and based solely on use of Metal Roof and Wall Panels in the Headworks Building construction:

1. Met-Tile, Inc. – Roof Panels: **No Exception Taken With Comments**
  - a. No exception is taken to the use of the Met-Tile roof panels submitted with simulated clay tile texture.
  - b. The Owner has selected **Morocco Red** for the roof panel color.
  - c. Please provide a complete description, material submittal and installation submittal for the products proposed to be utilized with this roof panel product for the fascia and soffit assemblies. Coordinate and assure compatibility with roof drainage system components, i.e., gutters and roof leaders.
2. Premium Panels, Inc. – Premium Panels Snap 675: **Rejected**
  - a. It is unknown as to the application of this particular product on this project. It does not appear to be compliant with the specifications for exterior wall panels. There are no interior metal panels in the Headworks structure. This item is **"Rejected"** unless it can be shown in subsequent submittals to be compliant with the contract documents.

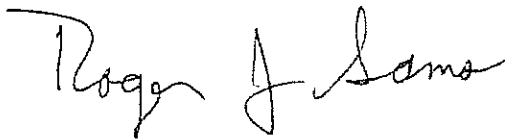
Mr. Wes Weaver  
September 23, 2011  
Page 2

3. Architectural Metals Specialties, Inc. – 178-SL-18-G(S): **Submit Specified Item**
  - a. It is unknown as to the intended use of this component. Submit specified items to describe its application on this project, if there is one.
  
4. Firestone Building Products Company, LLC: **Rejected**
  - a. A 2-page color selection guide from Firestone Building Products Company, LLC was provided. It is unknown as to the intended use of this submittal item. Metal panel color chips were submitted for the simulated Met-Tile roof panel and appear to have no relationship to the Firestone Building Products publication. This item is "**Rejected**" unless it can be demonstrated that this particular product is applicable to the Headworks facility.

Please refer to Specification Section 07501, Paragraph 2.2.B. for the basic specifications for the exterior wall panels. As has been discussed on many occasions, the exterior wall panels are to be simulated stucco as represented by the products specified in Paragraph 2.2.B.7. A smooth finish, standing seam type product is not compliant with the specifications and will not be considered for this project.

Please call if you should have any questions.

Sincerely,



Roger J. Sams, P.E.

RJS/kmw  
Enclosure

ec (letter only):

Ms. Cindy Murray, Office Manager, Fountain Sanitation District, [fsdistrict@fsd901.org](mailto:fsdistrict@fsd901.org)  
Mr. Jeff Burst, Project Supt., Weaver Construction Management, Inc., [jeff@weaverqc.com](mailto:jeff@weaverqc.com)  
Mr. John Jacob, Project Mgr., Weaver Construction Management, Inc., [john@weaverqc.com](mailto:john@weaverqc.com)  
Ms. Leslie Brown, Weaver Construction Management, Inc., [leslie@weaverqc.com](mailto:leslie@weaverqc.com)  
Mr. Jerry Miller, Resident Project Representative, GMS, Inc.

cc (w/enclosure):

Mr. Jim Heckman, Manager, LFMSDD, [lfmanager@lfmsdd.org](mailto:lfmanager@lfmsdd.org)



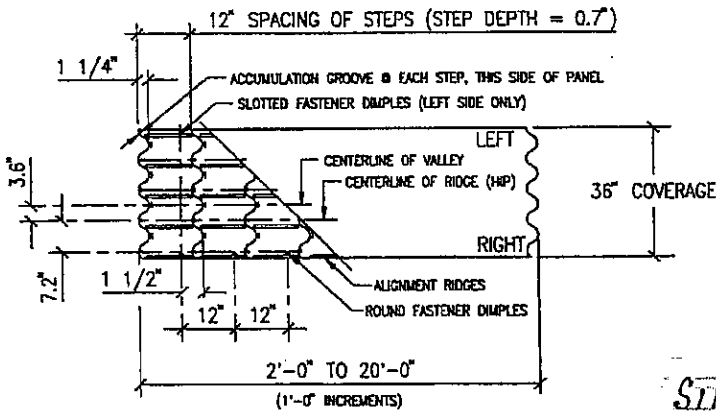
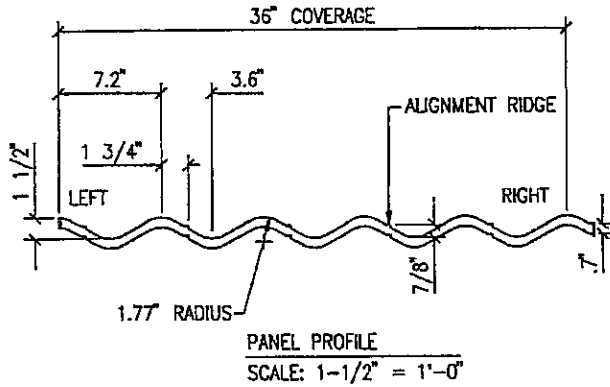


**SECTION I:**

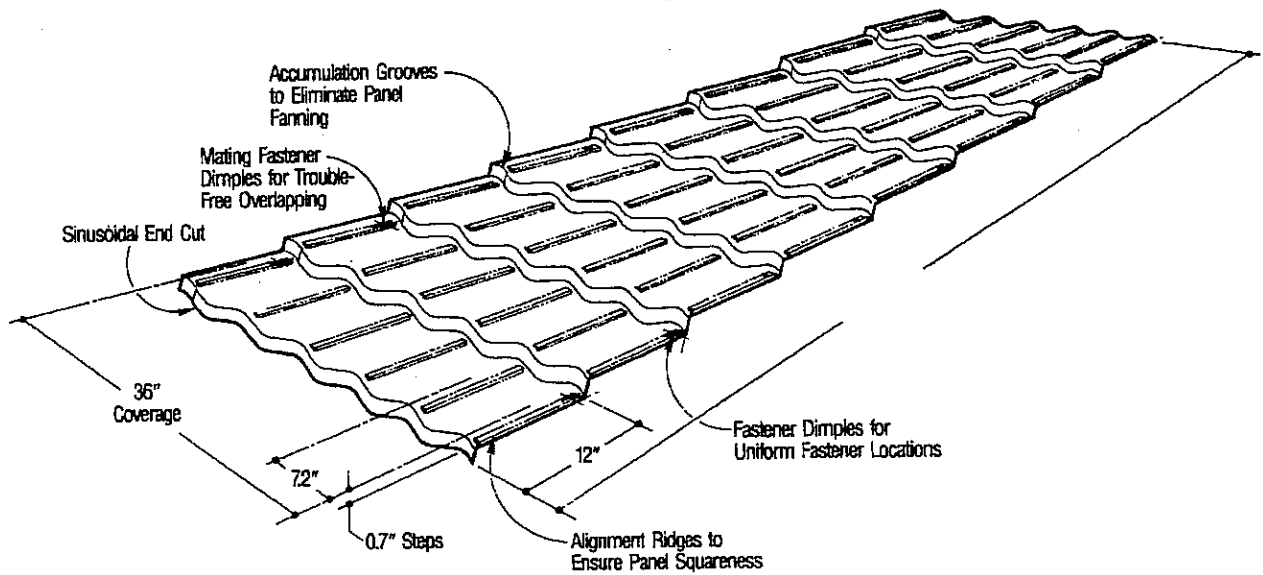
**SYSTEM COMPONENTS**

**Panel Description**

The Met-Tile panel profile contains six, 1-1/2" high x 7.2" pitch corrugations for a total coverage of 36". Steps are 0.7" deep, spaced on 12" centers. Each panel includes in its configuration: alignment ridges, accumulation grooves, fastener dimples and sinusoidal end cuts. Panels are supplied in lengths as needed of 2 ft to 20 ft, in 1-ft increments, and are designed for vertical (eave to ridge) installation. Panel lengths of greater than 20 ft are available on a request basis.



*"MET-TILE"*  
*Simulated Clay Roofing Tile Panels*

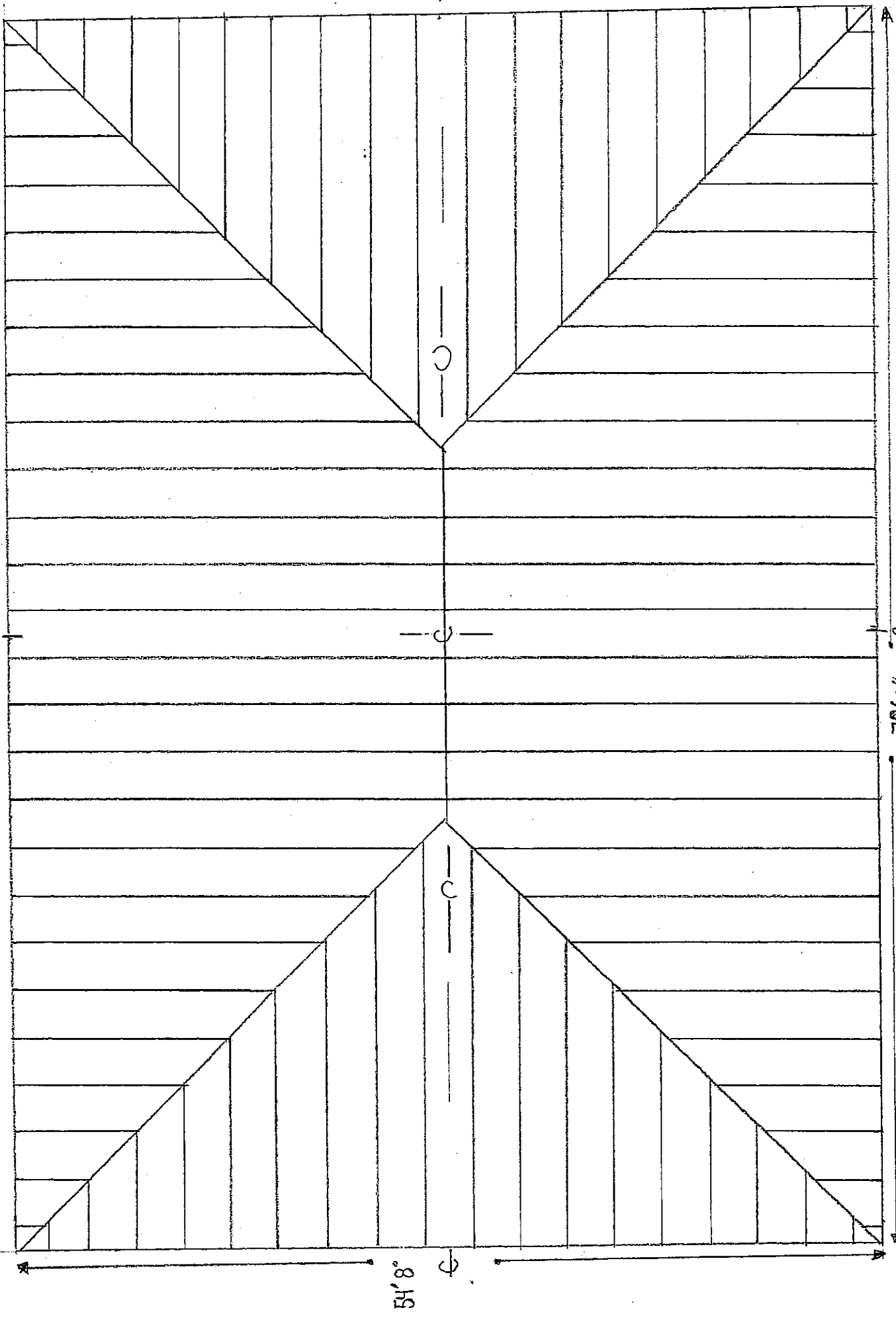


ROOF LAYOUT FOR 36" WIDE  
MET-TILE SIMULATED CLAY  
ROOFING TILE PANELS

HAROLD D. THOMPSON W.R.F.

TO: WEAVER CONSTRUCTION

ATTN: JOHN



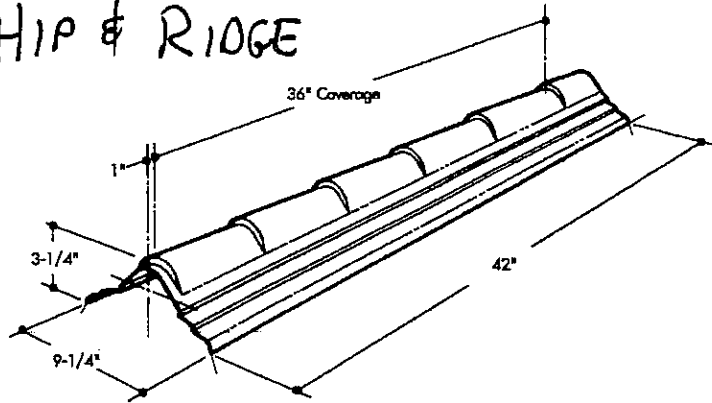
54' 8"

78' 0"

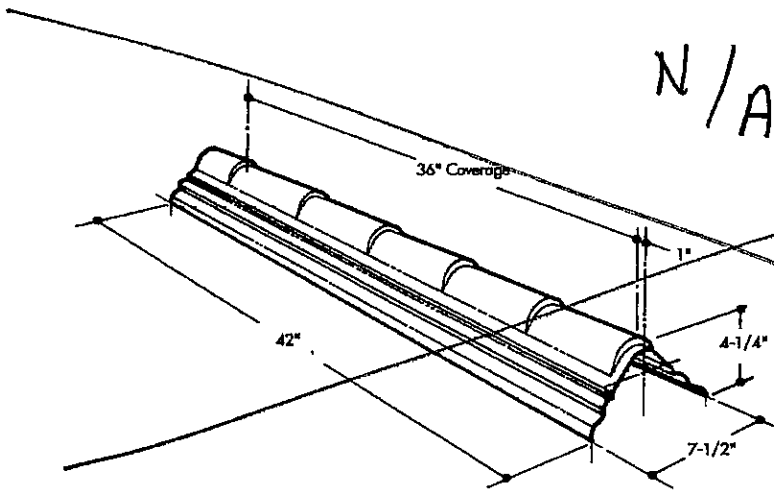
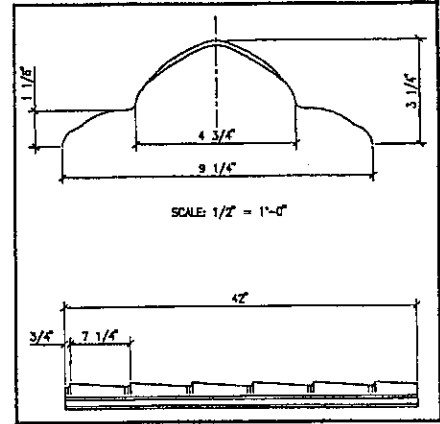
1/8" = 1' 0"

### COMPONENTS: TRIMS & FLASHINGS

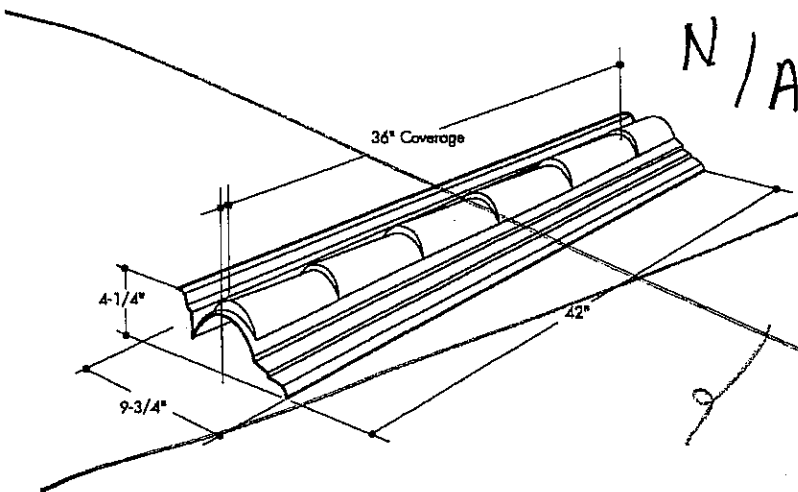
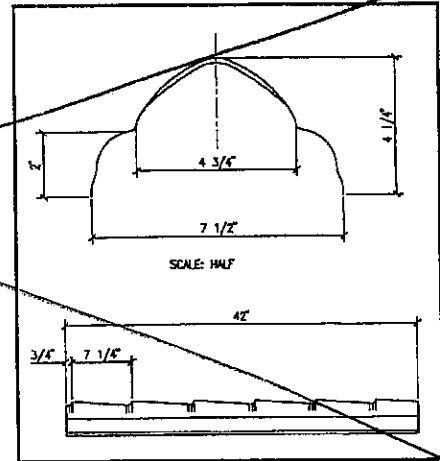
\* THIS COMPONENT USED FOR  
HIP & RIDGE



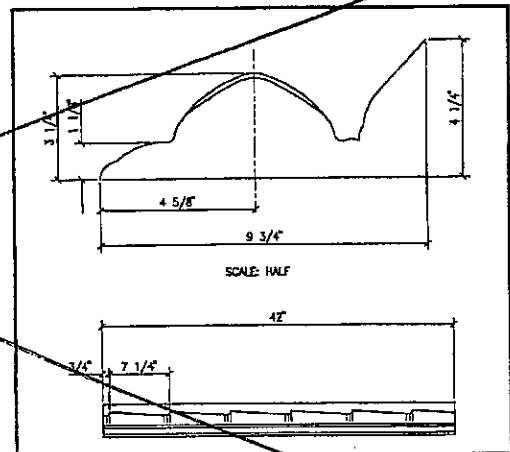
#### • Ridge and Hip Accessory



#### • Gable Trim



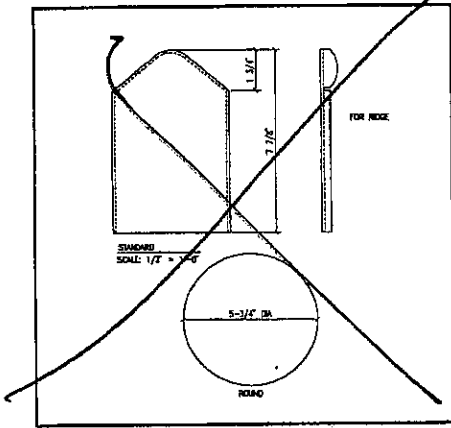
#### • Contoured Sidewall



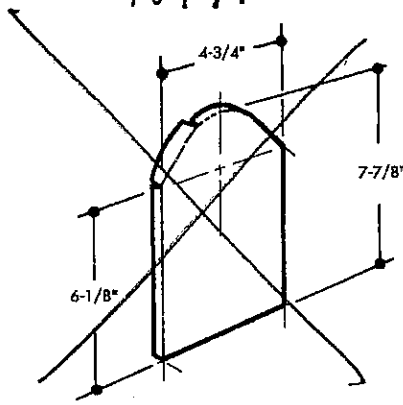
COMPONENTS: TRIMS & FLASHINGS

- Finials (end caps)

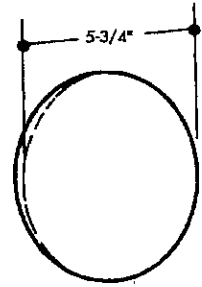
N/A



N/A

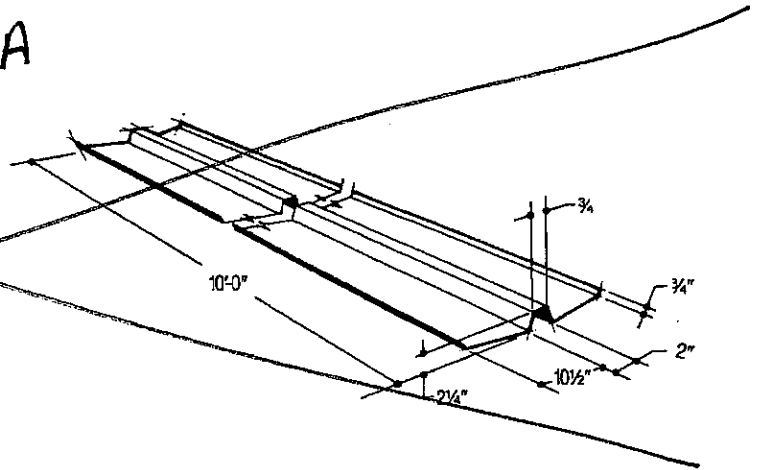
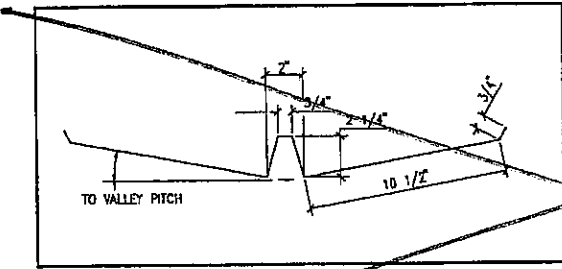


\* THIS CAP USED ON HIPS



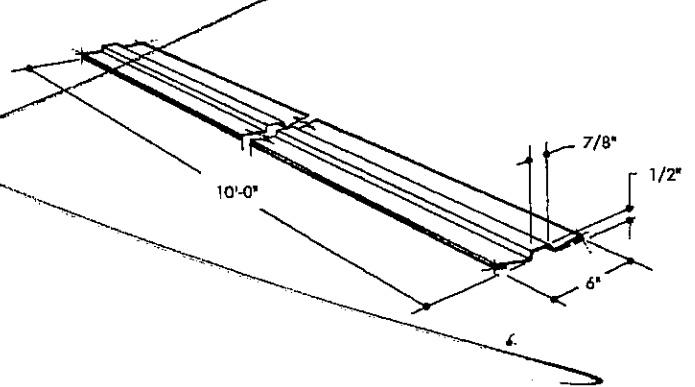
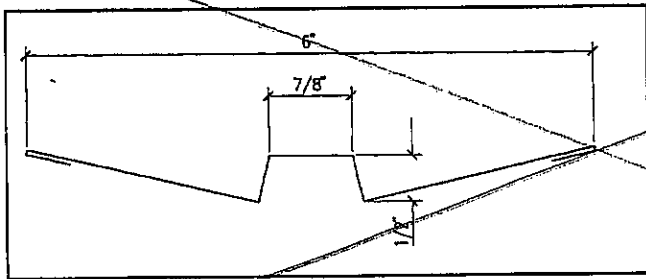
- Valley Pan

N/A



- Valley Cover

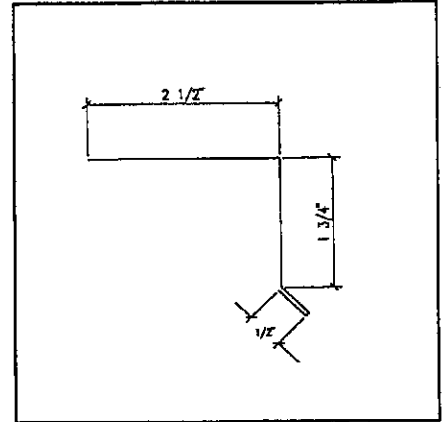
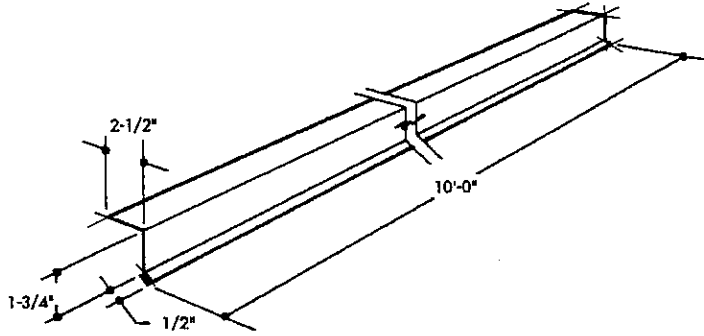
N/A



**COMPONENTS: TRIMS & FLASHINGS**

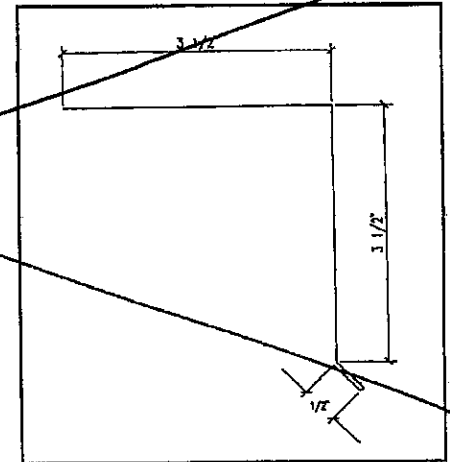
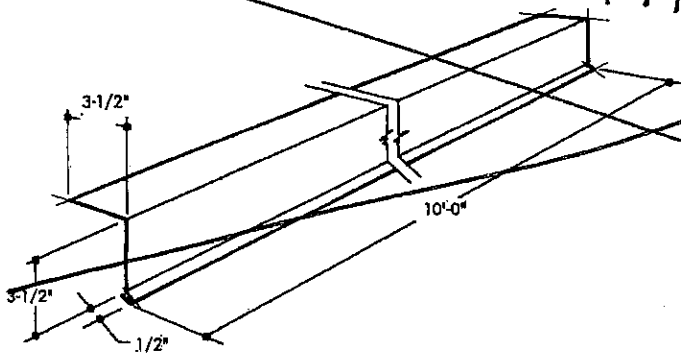
\* THIS PROFILE USED @ EAVES

• Standard Eave Flash



N/A

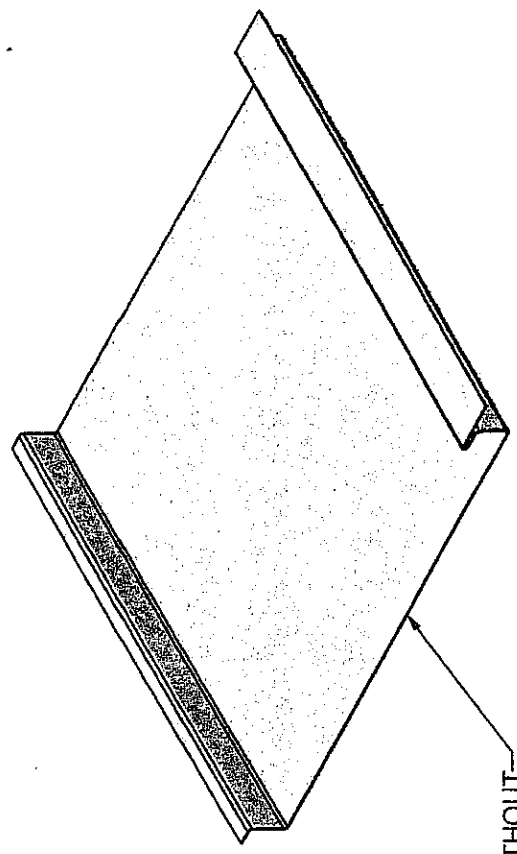
• Shake Eave Flash



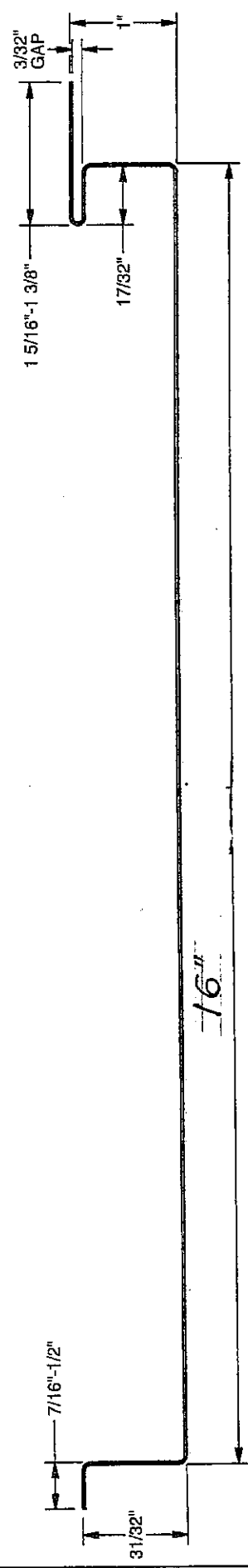
HAROLD D. THOMPSON WTF

**NOTE:**  
MATERIAL USAGE: 4"

WHEN USING PERFORATOR:  
MAXIMUM NET FREE AREA = 2.65 SQUARE INCHES  
PER 12 INCHES OF PERFORATION  
MAXIMUM OF TWO PERFORATIONS PER PANEL.



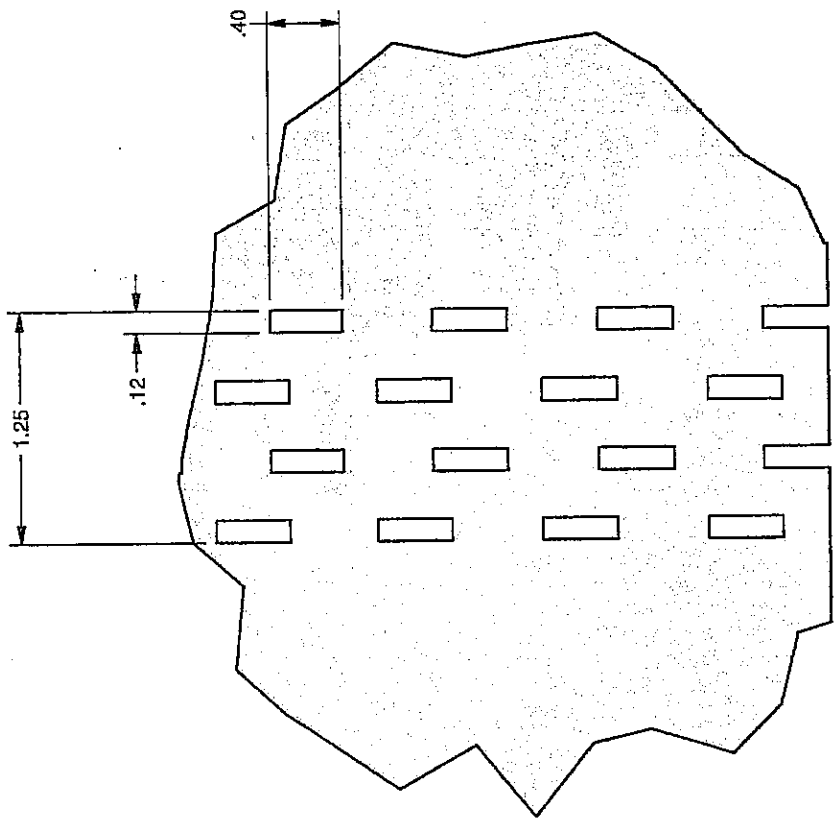
PANEL SHOWN WITHOUT PERFORATIONS.



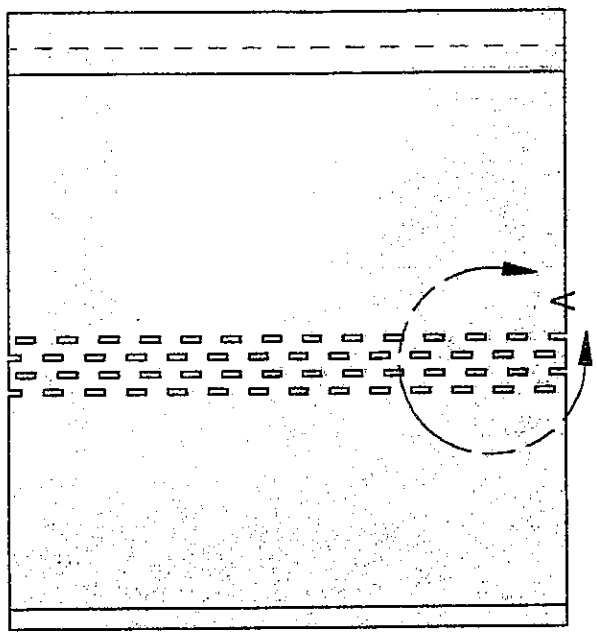
22 gauge Wall Panel

MATERIAL		FINISH	
REV	ECH NO.	DATE	RELEASED BY
REVISION HISTORY			
TOLERANCES		DRAWN BY	
.XX = ± .01		JD	
.XXX = ± .005		DATE	
FRACTION = ± 1/32"		11/28/07	
ANGLE = ± 1/2°		CHECK BY	
		FRV	
		DATE	
		11/29/07	
NEW TECH MACHINERY CORP.			
FWM PANEL PROFILE		PART NAME	
FW1-FWM		PART NUMBER	
1 OF 1		SHEET	
0		REVISION	

HAROLD D. THOMPSON WTF



DETAIL A



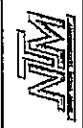
Vented Metal Soffit Panel

(2 2 1/2" X 48")

OPENING SIZE .40 X .12 = .048 SQ. IN.  
 OPENINGS PER 12 INCH LENGTH = 55.21  
 NET FREE AREA / 12 INCH = .048 SQ IN X 55.21 = 2.65 SQ. IN.

NOTE: UNLESS OTHERWISE SPECIFIED.  
 1. R= .015

MATERIAL		FINISH	
REV	ECR NO.	DATE	RELEASED BY
REVISION HISTORY			
TOLERANCES			
.XX = ± .01			
.XXX = ± .005			
FRACTION = ± 1/32"			
ANGLE = ± 1/2°			



NEW TECH MACHINERY  
 CORP.

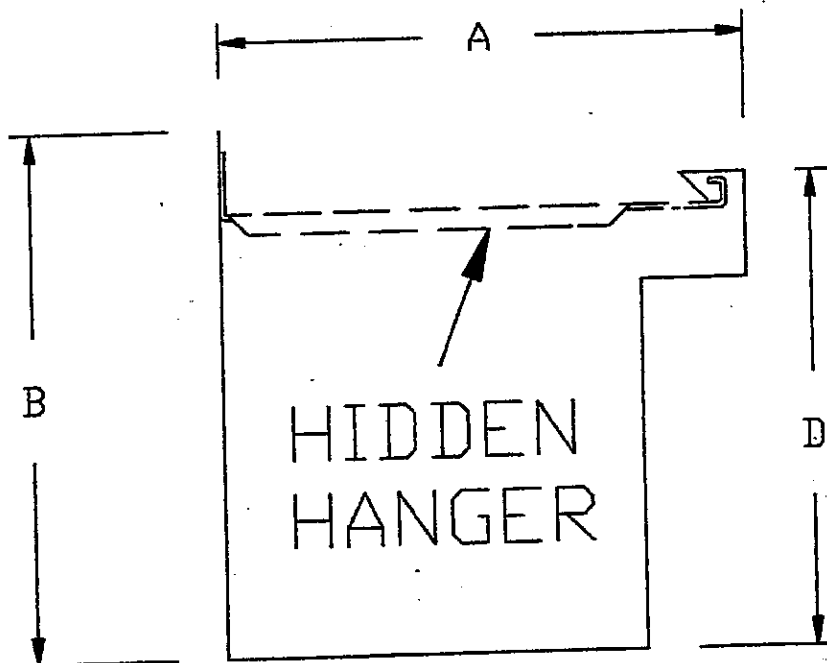
DRAWN BY		PART NAME	
JD		FWM PERFORATED PANEL PROFILE	
DATE		PART NUMBER	
11-28-07		FW1-FWM-PERF	
CHECK BY		SHEET	
JD		1 of 1	
DATE		REVISION	
04/23/08		0	



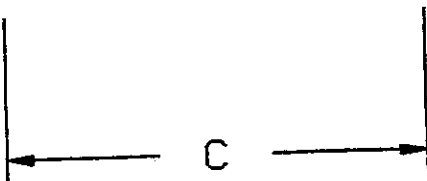
HAROLD D. THOMPSON WTF

# BOX GUTTER

Non-Seamless System - 24 gauge



Drawing - HW-2 Gutter  
6" min Box Rain Gutter  
per gutter manufacturer



**SECTION VIEW**

## STANDARD BOX GUTTER DIMENSIONS

A	B	C	D
5"	5"	4"	4½"
6"	6"	5"	5½"
7"	6"	6"	5½"
8"	8"	7"	7½"

**\*\*OTHER SIZES AVAILABLE\*\***

<b>Company:</b>	<b>Item:</b> BOX GUTTER
<b>Invoice:</b>	<b>Material:</b> 24 Gauge
<b>PO#:</b>	<b>Notes:</b>
<b>Architect:</b>	Non-seamless
<b>Contractor:</b>	Gutter system
<b>Date:</b>	
<b>Approved by:</b>	
<b>Signature:</b>	

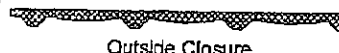



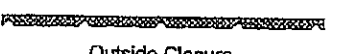

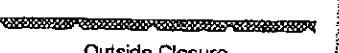
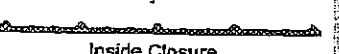
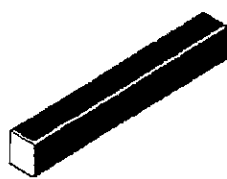
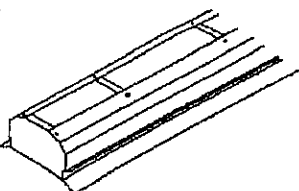
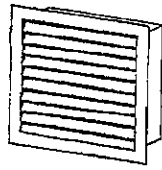
**CUSTOM ORDERS CAN NOT BE RETURNED**

**metal sales**  
manufacturing corporation



**METAL BUILDING PRODUCTS**

**Acci  
PRICING**

SPAN-LINE 36A CLOSURE		SIZE	TYPE	PRODUCT NO.	WT/100	
	Outside Closure	1" x 3'-0"	Polyethylene Foam	6460299	7.00 lbs	
	Inside Closure	1" x 3'-0"	Polyethylene Foam	6460399	9.00 lbs	
U-PANEL CLOSURE		SIZE	TYPE	PRODUCT NO.	WT/100	
	Outside Closure	1" x 3'-0"	Polyethylene Foam	6460999	9.00 lbs	
	Inside Closure	1" x 3'-0"	Polyethylene Foam	6461099	7.00 lbs	
PRO-PANEL II CLOSURE		SIZE	TYPE	PRODUCT NO.	WT/100	
	Outside Closure	1" x 3'-0"	Polyethylene Foam	6440299	7.00 lbs	
	Inside Closure	1" x 3'-0"	Polyethylene Foam	6440399	5.00 lbs	
CLASSIC RIB CLOSURE		SIZE	TYPE	PRODUCT NO.	WT/100	
	Outside Closure	1" x 3'-0"	Polyethylene Foam	6451499	7.00 lbs	
	Inside Closure	1" x 3'-0"	Polyethylene Foam	6451599	5.00 lbs	
UNIVERSAL CLOSURE		SIZE	TYPE	COLOR	PRODUCT NO.	WT/100
		1" x 1 1/2" x 50" Foam	Polyethylene	Gray	6411100	4.00 lbs
CONTINUOUS RIDGE VENT		SIZE	TYPE	PRODUCT NO.	WT	
		9" x 10"	26 Ga Galvalume with Damper	6901741	100 lbs	
		9" x 10"	26 Ga White with Damper	6901730	100 lbs	
		12" x 10"	26 Ga Galvalume with Damper	6901941	115 lbs	
		12" x 10"	26 Ga White with Damper	6901930	115 lbs	
LOUVER WITH SCREEN		SIZE	TYPE	FINISH	PRODUCT NO.	WT
		3'-0" x 3'-0"	Fixed	26 Ga White	6901100	40.00 lbs
		3'-0" x 4'-0"	Fixed	26 Ga White	6901200	65.00 lbs

From:

CRAFT CORP  
% STEVE

HAROLD THOMPSON  
FACILITY

ATTN: JOHN

THIS IS USED  
AS A FLUSH  
PANEL CLOSURE  
HOPE THIS HELPS  
ONLY PROFILE  
AVAILABLE

JA

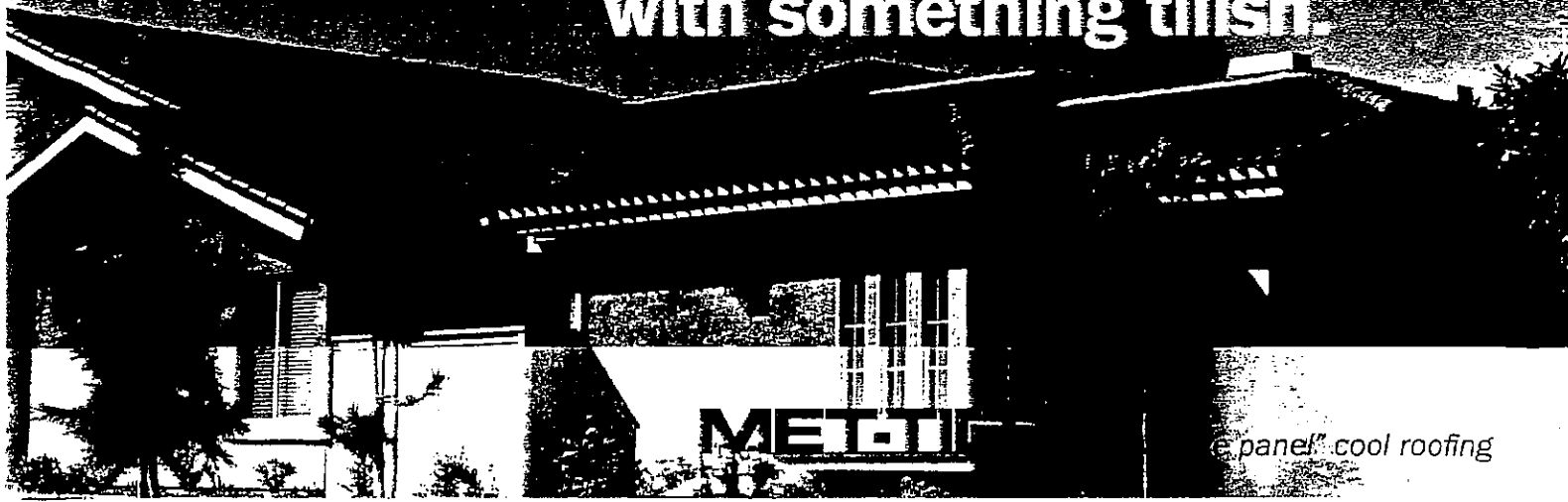


**MBP-10**

For all specific warranty, application, installation, and technical information regarding these products, contact your representative. © Metal Sales Manufacturing Corporation  
Subject to change without notice Effective Date 10/07 800-408-7387 (Corporate Office) www.metalsales.us.c

**PRODUCT DATA & DETAIL DRAWINGS.**

with something tilish.



panel cool roofing

Met-Tile looks so much like clay or concrete tile, it's tough to tell the difference! Until you learn the advantages. Lightweight Met-Tile combines the "tilish" look you love with the proven performance features of metal panel roofing — including all-weather performance, low maintenance, durability and energy efficiency. Met-Tile is proud to be an ENERGY STAR<sup>2</sup> partner. All 10 designer colors meet or exceed stringent ENERGY STAR standards, to keep your home cooler. Besides saving energy, cool metal roofing may also qualify you for tax credits and/or utility and insurance rebates in some areas.

Though it looks like tile, a single Met-Tile panel can actually cover as much area as 80 tiles, for rapid installation. Panels are applied vertically and tightly secured with screw fasteners that keep the roof in place, even under the heaviest wind and rain. In fact, Met-Tile carries an unbeatable UL wind rating of 230+ mph!



Weighing only 1.25 lb. per sq ft, a fraction the weight of tile, Met-Tile is ideal for new and older homes. You can upgrade to the beautiful look of tile without costly structural reinforcement.



## Features and Benefits

- 10 designer colors meet ENERGY STAR<sup>‡</sup> requirements
- Sheds snow and ice, withstands hail
- Proven hurricane performance
- Seismically safe
- Pest and rot resistant
- Made of recyclable metal
- Looks great on all types of homes
- May bring tax credits or insurance/utility rebates
- Available in high performance aluminum for coastal applications

## Technical Data<sup>2</sup>

**Materials:** 26 gauge steel; SMP "cool roof" paint system with textured/stucco-like finish

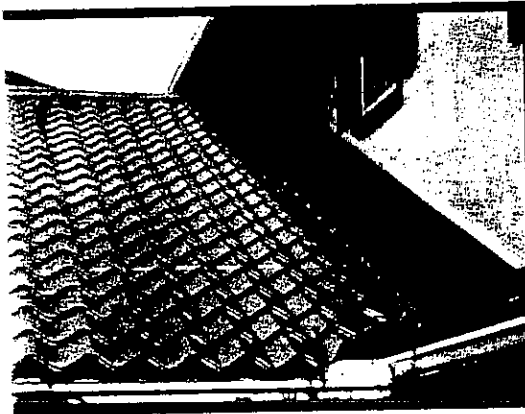
**Panel Dimensions:** 36" wide, 2 – 20 ft. long, in 1-ft. increments; special and fractional lengths available

**Fire Rating:** Class A, B and C rating for new construction (depending on underlayment), Class B for re-roofing

**Wind Resistance:** 230+ mph (per UL wind uplift testing)

**Impact (hail) Resistance:** UL Class 4

**Warranty:** 20 yr. warranty against chipping, splitting, flaking, cracking or peeling of the finish under normal conditions



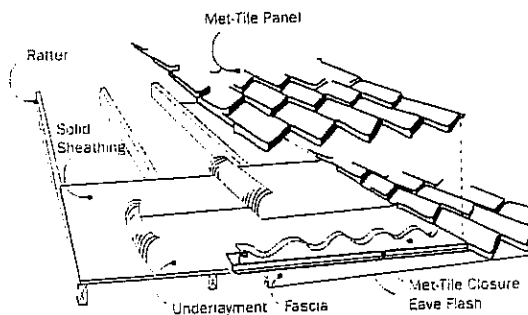
Before



After

## Typical Installation

Met-Tile is most often installed over solid wood decking and felt underlayment, as shown. It may also be applied over open wood or steel rafters (new construction) or existing shingles (re-roof projects).



Distributed by:

# MET-TILE

**Met-Tile, Inc.**

Phone: 800-899-0311, 909-947-0311

Email: met-tile@met-tile.com

www.met-tile.com

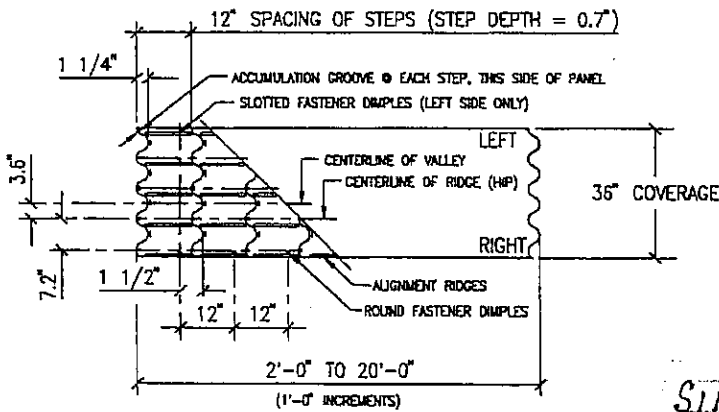
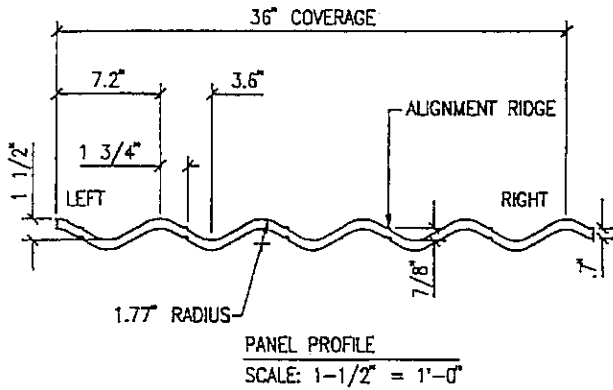
<sup>1</sup> ENERGY STAR is a registered mark owned by the U.S. government  
<sup>2</sup> Technical data is for standard steel product  
<sup>3</sup> Registered trademark, BlueScope Steel Limited

**SECTION I:**

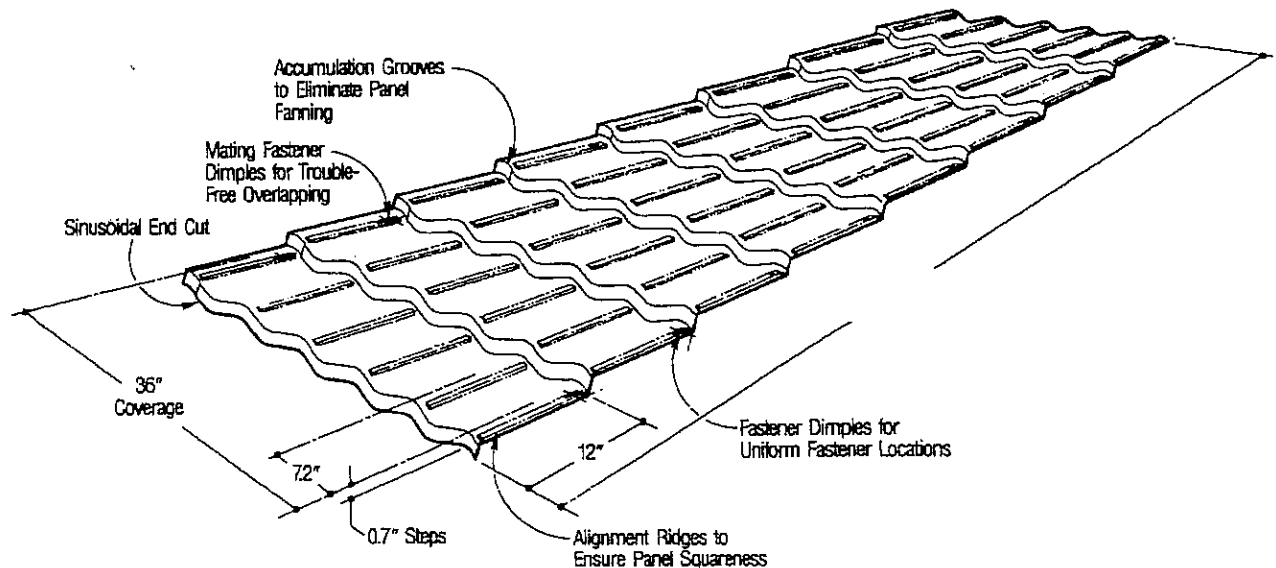
**SYSTEM COMPONENTS**

**Panel Description**

The Met-Tile panel profile contains six, 1-1/2" high x 7.2" pitch corrugations for a total coverage of 36". Steps are 0.7" deep, spaced on 12" centers. Each panel includes in its configuration: alignment ridges, accumulation grooves, fastener dimples and sinusoidal end cuts. Panels are supplied in lengths as needed of 2 ft to 20 ft, in 1-ft increments, and are designed for vertical (eave to ridge) installation. Panel lengths of greater than 20 ft are available on a request basis.



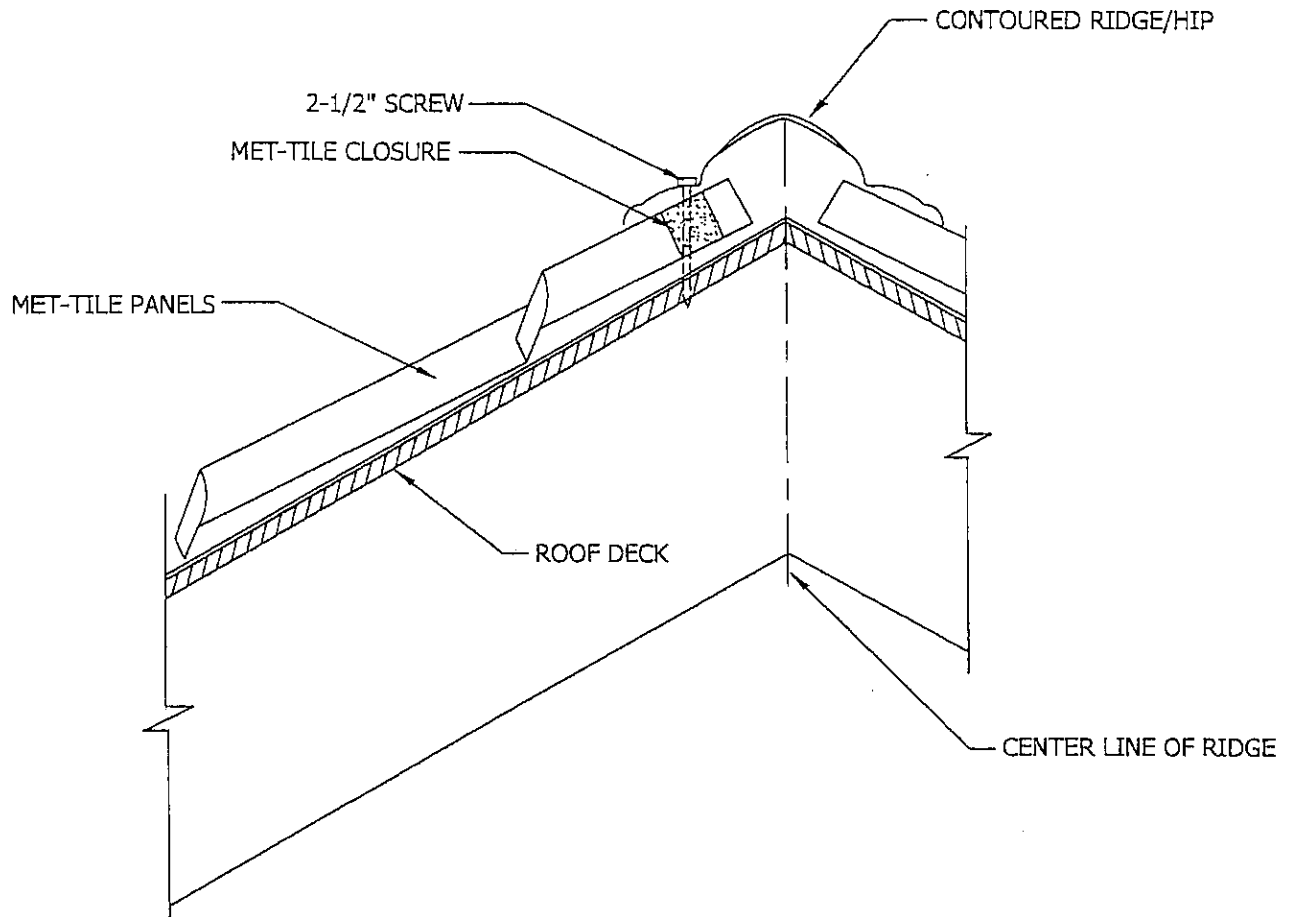
*"MET-TILE"  
Simulated Clay Roofing Tile Panels*



# MET-TILE

INCORPORATED

1745 E. MONTICELLO CT.  
ONTARIO, CA. 91761  
PH. (909) 947-0311  
FAX. (909) 947-1510  
www.met-tile.com



## NOTE:

STANDARD FASTENING FOR TILE PANELS  
IS (1) 2-1/2" SCREW @ EVERY OTHER  
TILE ON BOTH SIDES OF RIDGE TYP.  
REFER TO INSTALLATION MANUAL FOR  
FASTENING PATTERN IN SPECIFIC AREAS.

N.T.S.

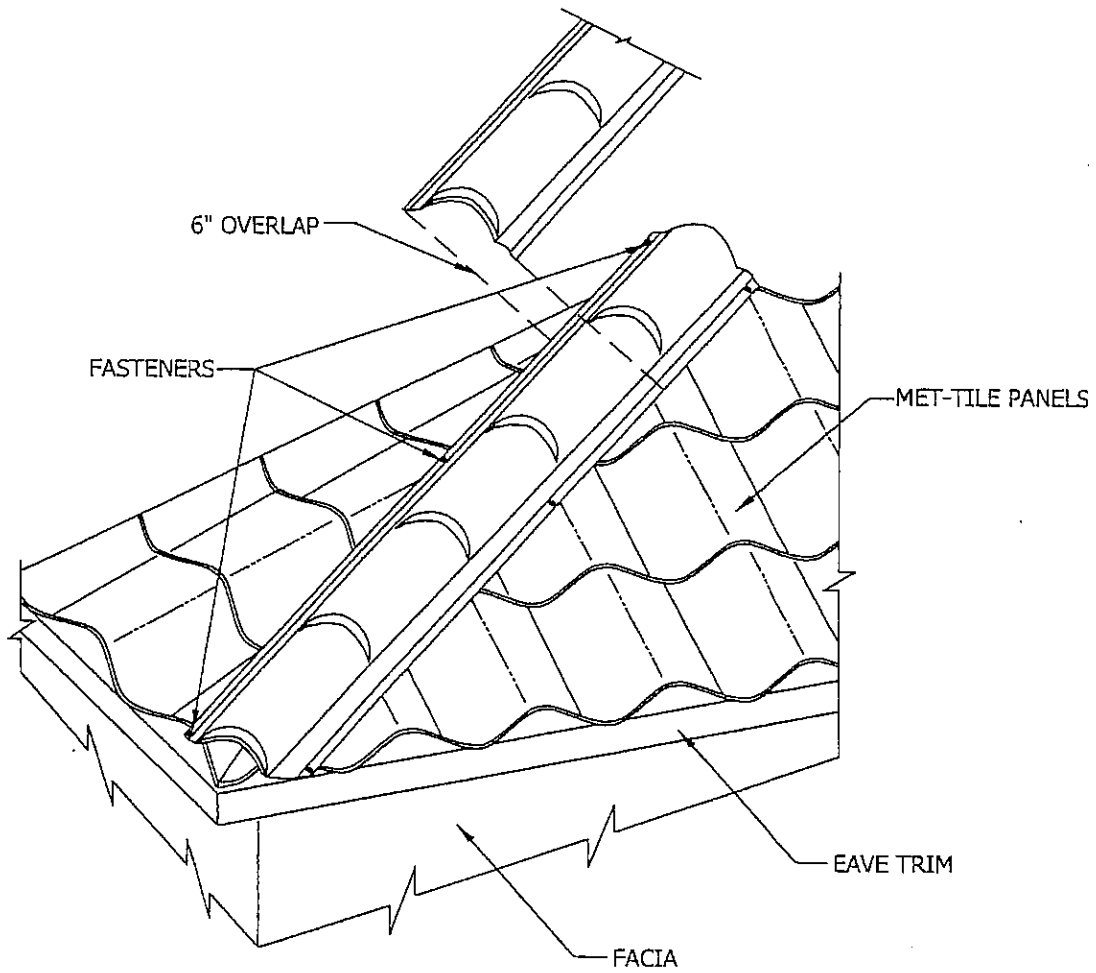
CONTOURED RIDGE

DETAIL SHEET #12

# MET-TILE

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www.met-tile.com



N.T.S.

CONTOURED HIP

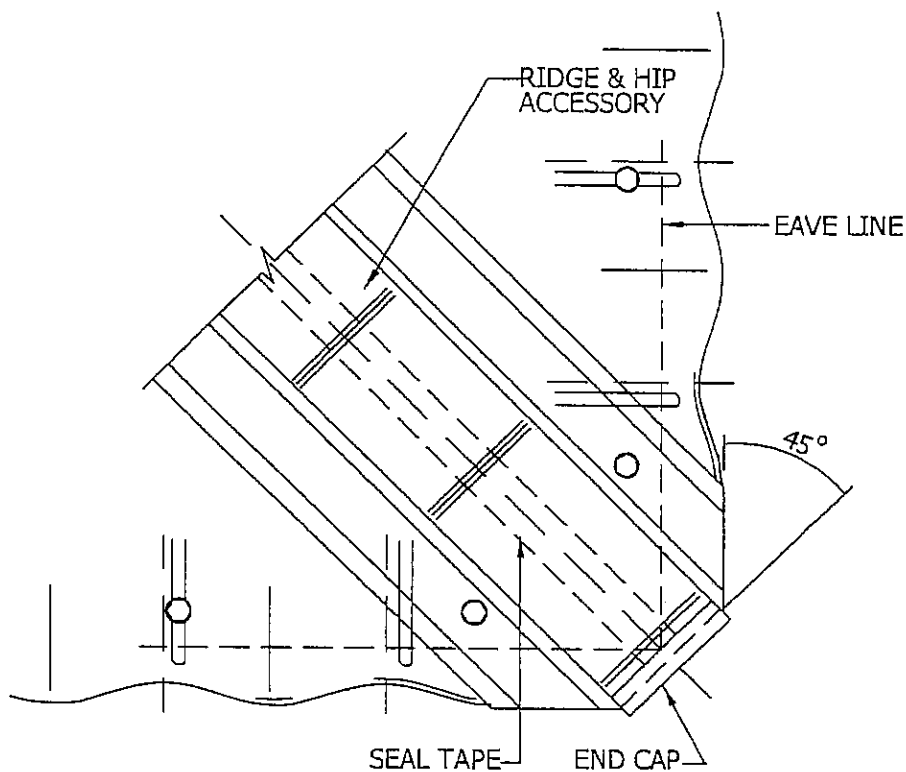
DETAIL SHEET 11



# MET-TILE

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ONTARIO, CA. 91761  
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FAX. (909) 947-1510  
www.met-tile.com



N.T.S.

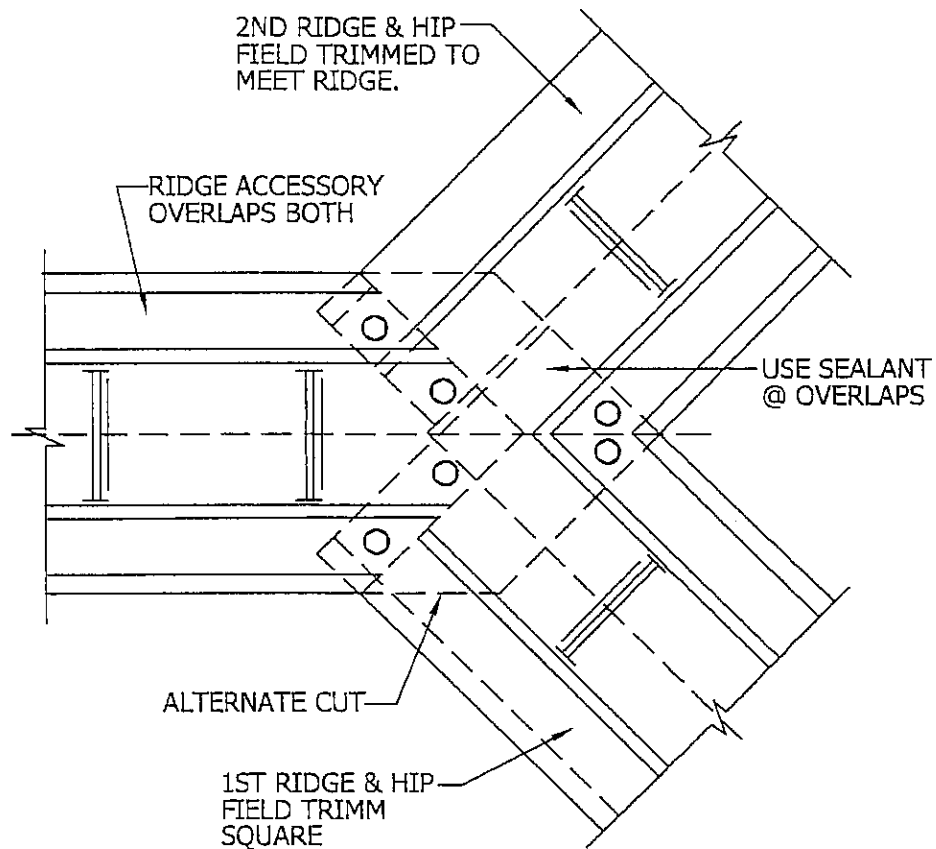
HIP @ CORNER

DETAIL SHEET #10

# MET-TILE

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ONTARIO, CA. 91761  
PH. (909) 947-0311  
FAX. (909) 947-1510  
www.met-tile.com



N.T.S.

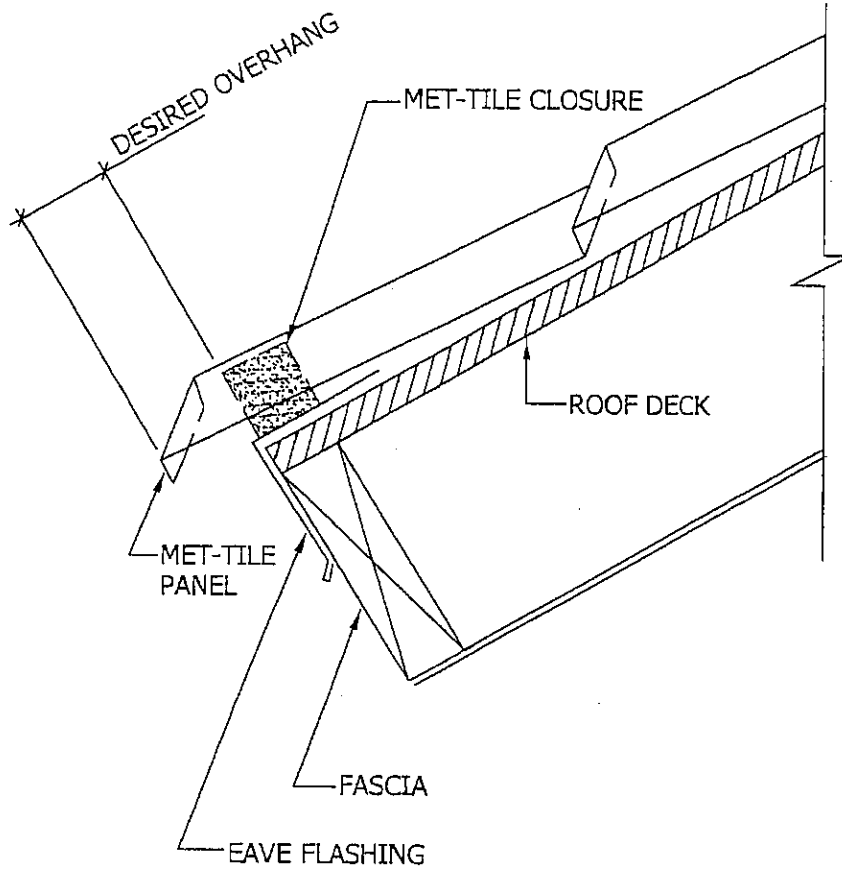
RIDGE @ HIP

DETAIL SHEET #4

# MET-TILE

INCORPORATED

1745 E. MONTICELLO CT.  
ONTARIO, CA. 91761  
PH. (909) 947-0311  
FAX. (909) 947-1510  
www.met-tile.com

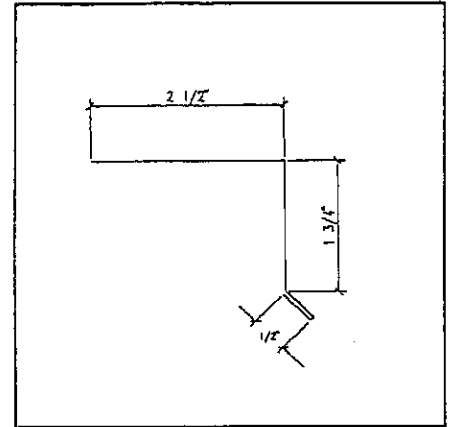
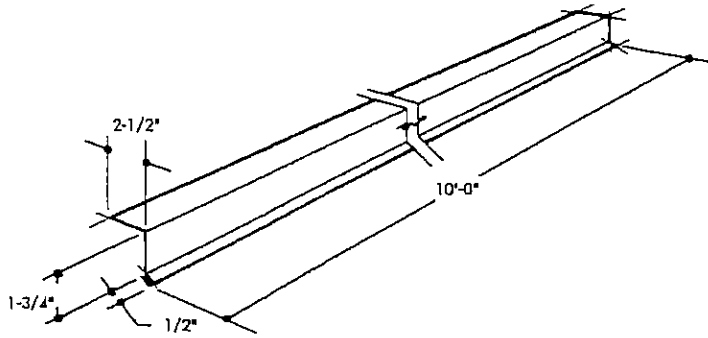


*Drawing HW-2  
Overhang Roof Panels per  
Manufacturer Recommendations*

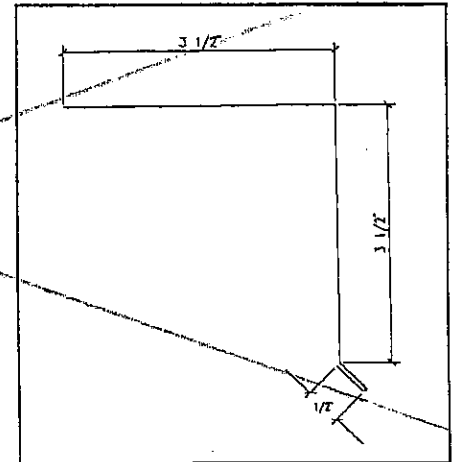
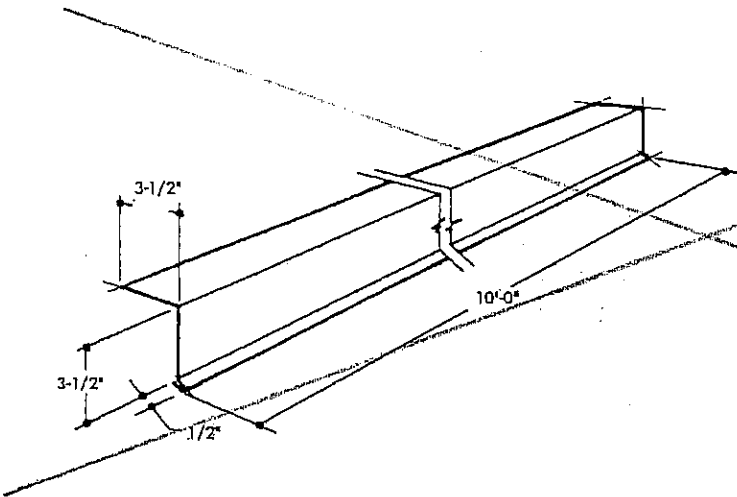
N.T.S.

**COMPONENTS: TRIMS & FLASHINGS**

• **Standard Eave Flash**

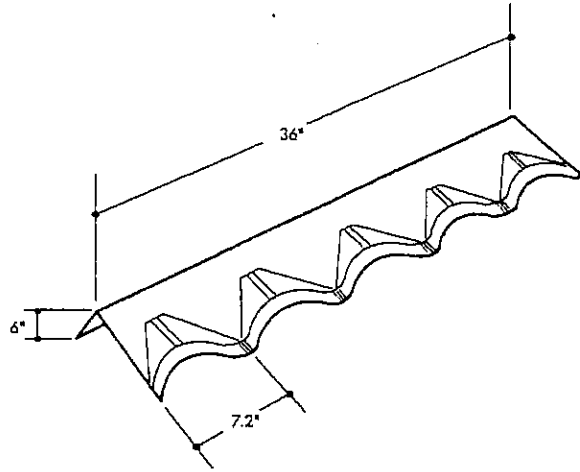
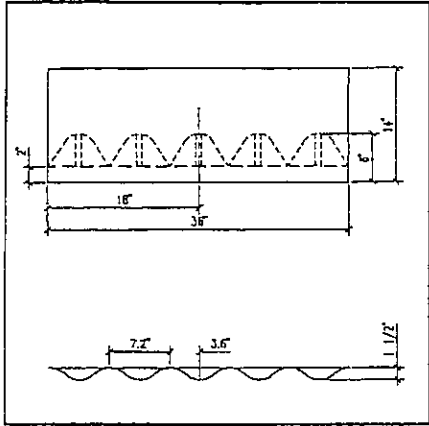


• **Shake Eave Flash**

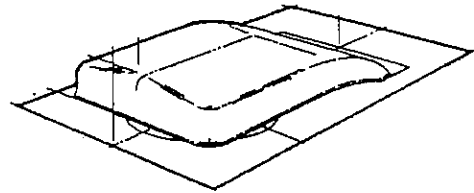
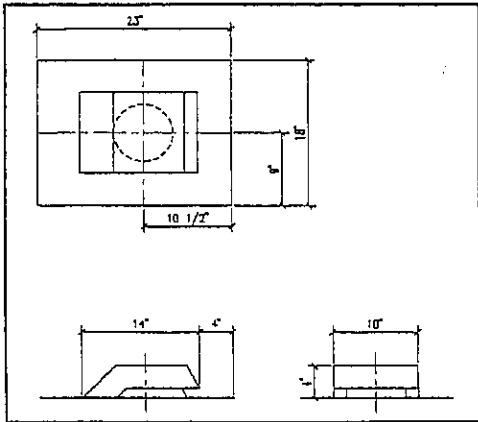


**COMPONENTS: TRIMS & FLASHINGS**

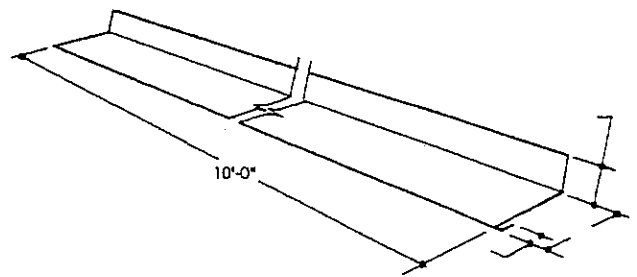
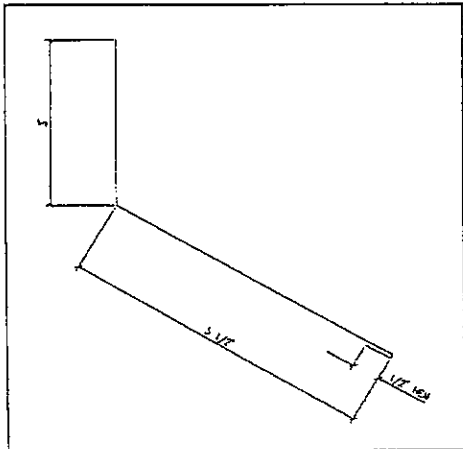
• Contoured End Wall Flashing



• Hood Vent

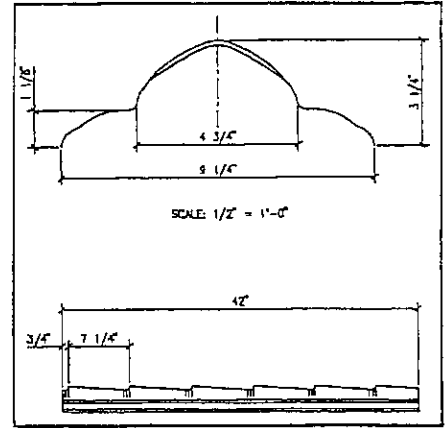
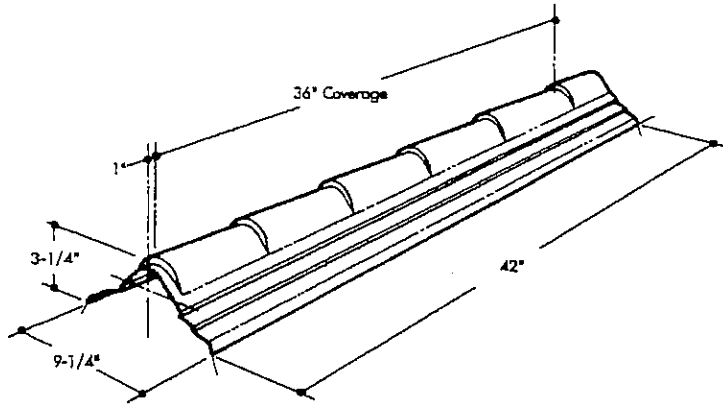


• Flat Endwall Flashing



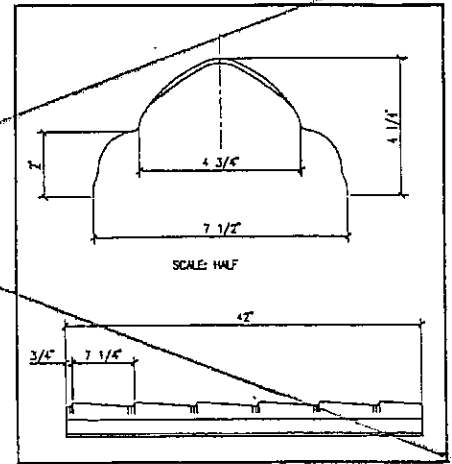
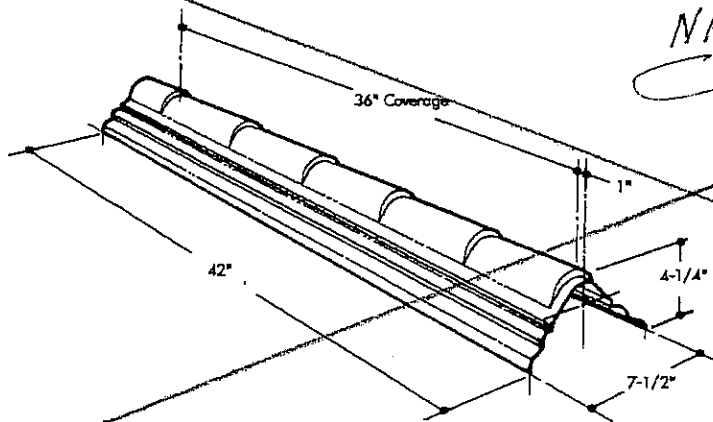
**COMPONENTS: TRIMS & FLASHINGS**

• Ridge and Hip Accessory



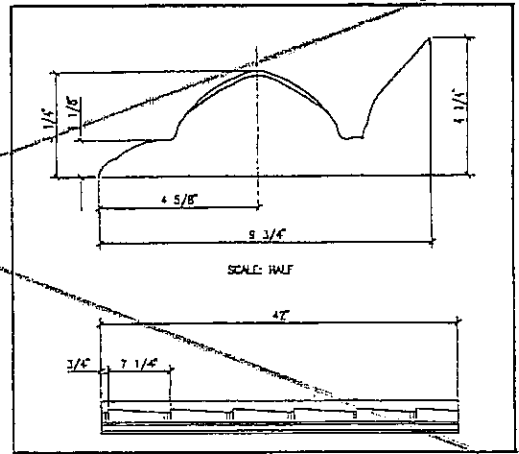
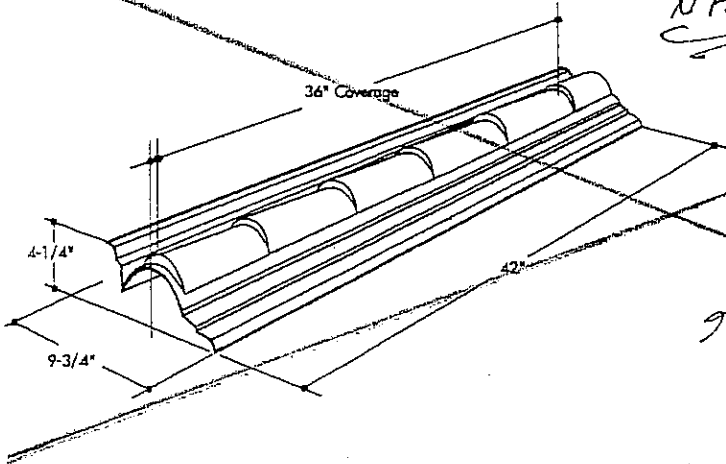
• Gable Trim

NA



• Contoured Sidewall

NA





## Manufacturer's Certification Statement

for the American Recovery and Reinvestment Act of 2009

On February 17, 2009 President Obama signed a stimulus bill (The American Recovery and Reinvestment Act of 2009) that made some significant changes to energy efficiency tax credits.

Under the new law, a tax credit is available for 30% of the cost, up to \$1,500.00, in 2009 and 2010 for new and existing homes for installed metal roofing on the taxpayer's principal residence.

For metal roofing to qualify, it must meet specific criteria listed below:

**Metal Roof Panel:** Roofing systems using metal panels are divided into two categories: architectural and structural. Architectural metal roofs are applied over a substrate while structural metal roofs span between structural supports without the need for a substrate to carry the applied loads. Standing seam roofs can be used on roofs with slopes as low as ¼:12. Steel and aluminum sheets are commonly used to fabricate metal roof panels. Steel requires a corrosion resistant metal coating such as zinc, aluminum, alloys of zinc-aluminum, or tin. Metallic coated steel includes galvanized steel, aluminized steel, zinc-aluminum-coated steel and terre-coated steel. Metallic coated steels may also be painted to provide additional corrosion protection, as well as color.

The above is defined in proposed ASTM Standard E 1918-97, and the National Roofing Contractors Association Commercial Low-Slope Roofing Materials Guide 1998.

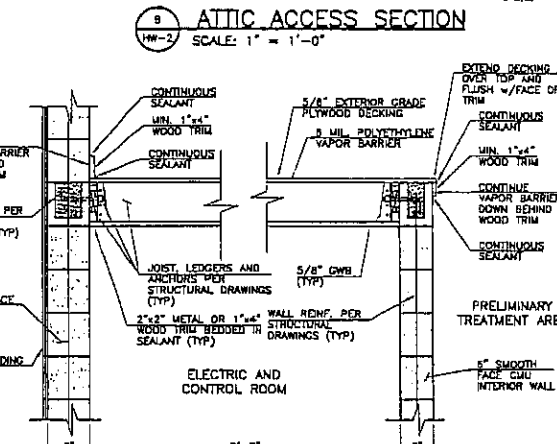
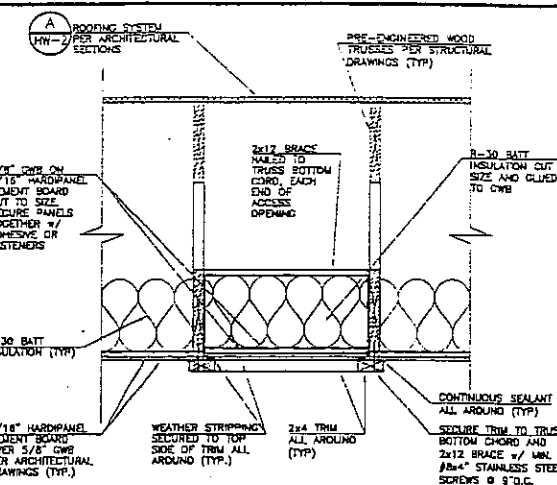
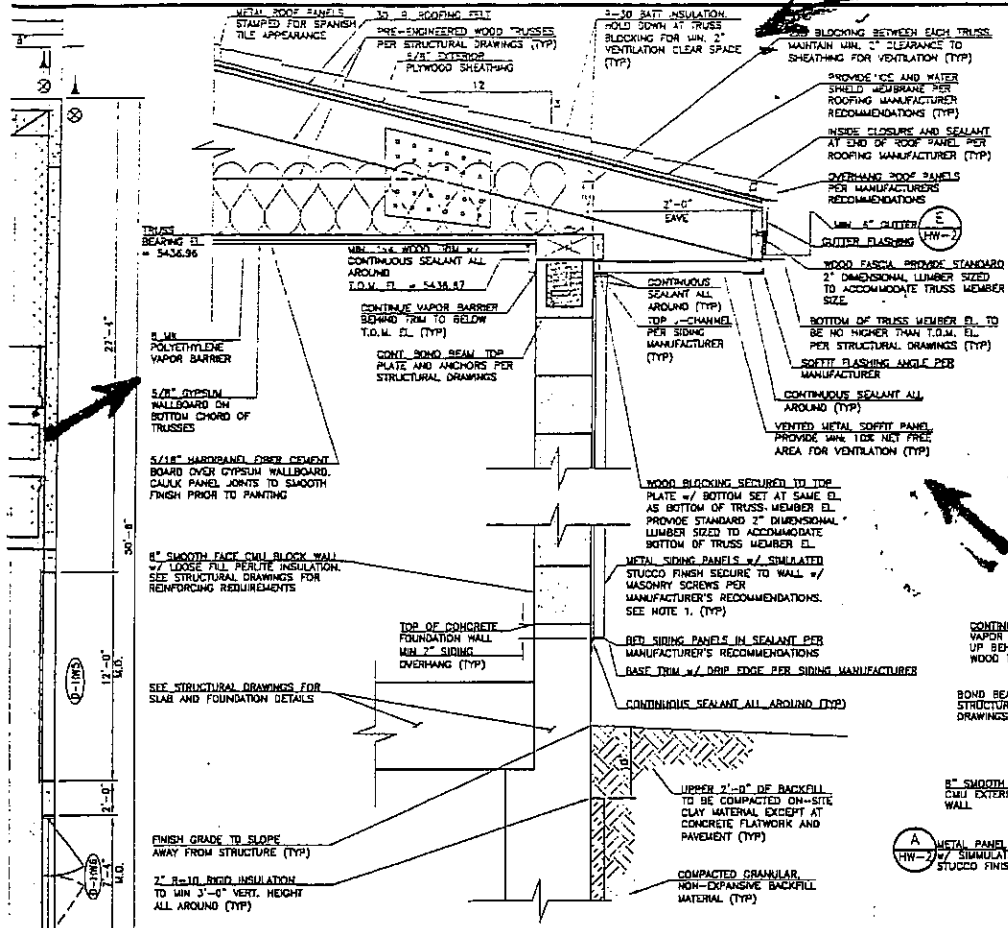
**Roof Coating:** A material typically applied in the liquid state to the roof surface at the time of construction or at a later time as a retrofit measure. Roof coatings may include bituminous, polymeric, polymer modified, epoxy based, or other formulations. Bituminous roof coatings are formulated using bitumen. Polymeric roof coatings are formulated using a variety of synthetic resins such as acrylic, neoprene, styrene butadiene, urethane, polyvinyl acetate, and others. Polymer modified roof coatings are manufactured by combining a portion of the polymeric technology with bitumen technology.

Met-Tile Inc. certifies that our zinc-aluminum galvanized 26 GA. Metal Tile Panel with the Super Series 4800 Cool Roof Coating qualifies for the Federal Tax Credit.

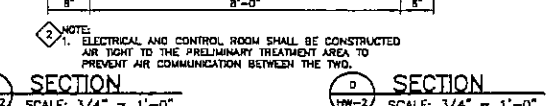
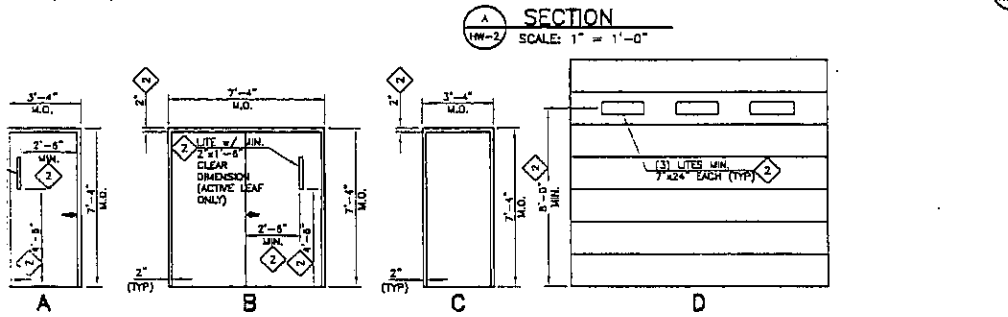
Under penalties of perjury, I declare that I have examined this certification statement, and to the best of my knowledge and belief, the facts are true, correct and complete.

A handwritten signature in black ink, appearing to read "T. Holman", written over a horizontal line.

Terry Holman  
President  
Met-Tile Inc.



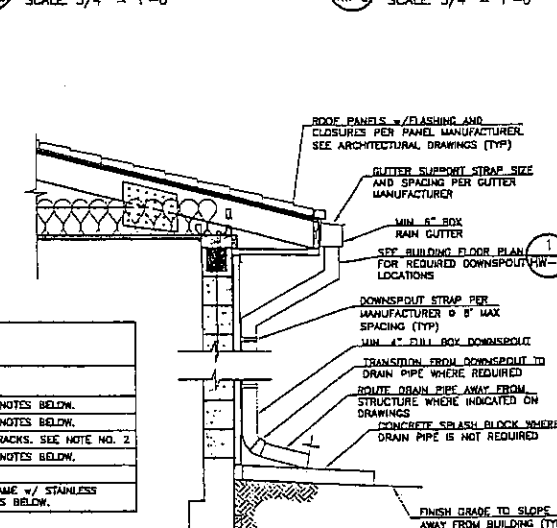
NOTE: CONTRACTOR HAS THE OPTION TO INSTALL 1\"/>



**DOOR SCHEDULE**

WIDTH	HEIGHT	TYPE	HAND	HARDWARE SET	HEAD	JAMB	SILL	COMMENT
3'-0"	7'-2"	A	RHR	A	2	3	4	STAINLESS STEEL OR ALUMINUM DOOR(S) AND FRAME w/ STAINLESS STEEL HARDWARE. SEE NOTES BELOW.
3'-0"	7'-2"	B	LHR	B	2	3	4	STAINLESS STEEL OR ALUMINUM DOOR(S) AND FRAME w/ STAINLESS STEEL HARDWARE. SEE NOTES BELOW.
14'-0"	14'-0"	D			5	6	7	PROVIDE PAD LOCK HASP ANCHORED TO FLOOR, INSULATED PANELS, AND LOW HEADROOM TRACKS. SEE NOTE NO. 2
3'-0"	7'-2"	B	LHR	B	2	3	4	STAINLESS STEEL OR ALUMINUM DOOR(S) AND FRAME w/ STAINLESS STEEL HARDWARE. SEE NOTES BELOW.
3'-0"	12'-0"	D			5	6	7	PROVIDE PAD LOCK HASP ANCHORED TO FLOOR, INSULATED PANELS. SEE NOTE NO. 2
3'-0"	7'-2"	B	RHR	C	2	3	4	3'-6\"/>

THE PROJECT MANUAL FOR FINISH REQUIREMENTS OF STAINLESS STEEL AND ALUMINUM DOORS AND DOOR  
 DOORS SHALL BE PROVIDED WITH ALUMINUM DOOR PANELS AND STAINLESS STEEL TRACKS, FASTENERS AND AS SPECIFIED IN THE PROJECT MANUAL.  
 PROJECT MANUAL FOR HARDWARE SPECIFICATIONS.  
 MECHANICAL DRAWINGS FOR LOCATIONS OF DUCTWORK AND EQUIPMENT.  
 DOOR LATCH SHIELDS ON ALL OUTWARD OPENING EXTERIOR DOORS.



**ROOM FINISH SCHEDULE**

FLOOR / SLAB	WALLS	CEILING	COMMENT
CONCRETE, SEALED	CONCRETE, COATED/PAINTED	CONCRETE, COATED/PAINTED	
X	X	X	INSTALL CONTINUOUS EPOXY COATING SYSTEM ON BOTTOM 4'-0\"/>
X	X	X	INSTALL T-Lock LINING SYSTEM ON UNDERSIDE OF SUSPENDED SLABS OVER CHANNELS AND GRIT CHAMBERS. PROVIDE STANDARD 2\"/>

NOTE: ELECTRICAL AND CONTROL ROOM SHALL BE CONSTRUCTED AIR TIGHT TO THE PRELIMINARY TREATMENT AREA TO PREVENT AIR COMMUNICATION BETWEEN THE TWO.

**REVISIONS**

NO.	DATE	DESCRIPTION
1	3/28/2011	ISSUED FOR FOUNDATION PERMIT SUBMITTAL TO PHOENIX (INCOMPLETE)
2	5/10/2011	ISSUED FOR PREPARATION OF CWD

**ARCHITECTURAL PLAN AND DETAILS**  
 HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY  
 LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

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2010 GMS, INC.

DRAWN	MAM/SKC
DESIGNED	MAM
CHECKED	RJS
DATE	2010
PROJECT NO.	201055.352
GMS FILE NO.	2599

**GMS, INC.**  
 CONSULTING ENGINEERS  
 611 N. WEBER, SUITE 300  
 COLORADO SPRINGS, COLORADO 80903

SHEET  
**HW-2**  
 OF