FINISHING AND DETAILING STRUCTURES

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Dan Lewis, MI

CHANGING THINGS

- Many modelers prefer to change kits so that the final product is unique.
- Kit-bashing or cross-kits
- Super-detailing
- Scratch-built additions

European Tank Kit





American Kit (Walthers

3-IN-1 BUILDING SET NOW AVAILABLE



Scratch-built Additions



DPM Additions



Additional Details (DPM)

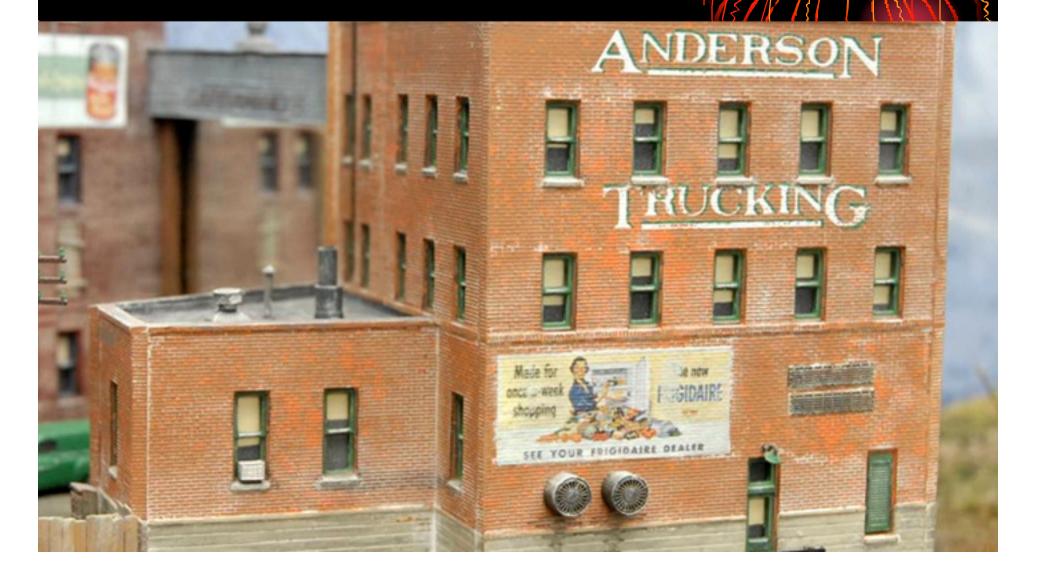


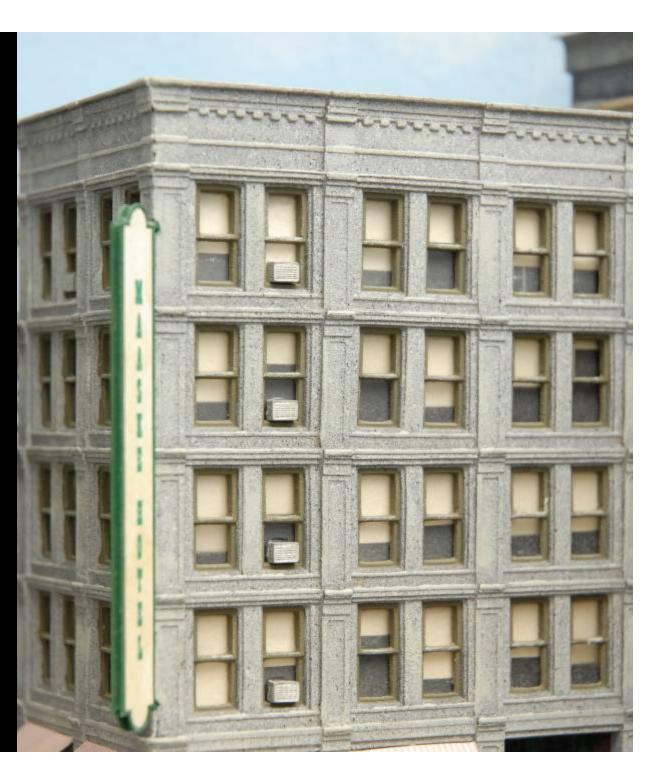
BASIC PAINTING

- Spray bombs
- Airbrush
- Brush painting

Keep in mind that you can use more than a single color, and especially with spray bombs, you can work "wet-in-wet".

BASIC COLOR: "wet-in-wet" orange and brown





BASIC COLOR: "wet-in-wet" gray with white and black misted in

BASIC COLOR: Orange with "dirty" maroon as an overlay, then partially sanded off



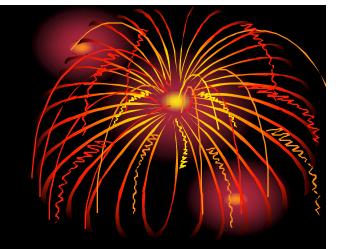
BASIC COLOR: "Wet-in-wet" orange and brown



BASIC COLOR: Rust-oleum Texture Paint TRUSTED QUALITY SINCE 1921 **RUST-OLEU**M OLOR Och & Elegant Textured STOP Outd a Premium Finish Outdoor Metal & Woo NETW

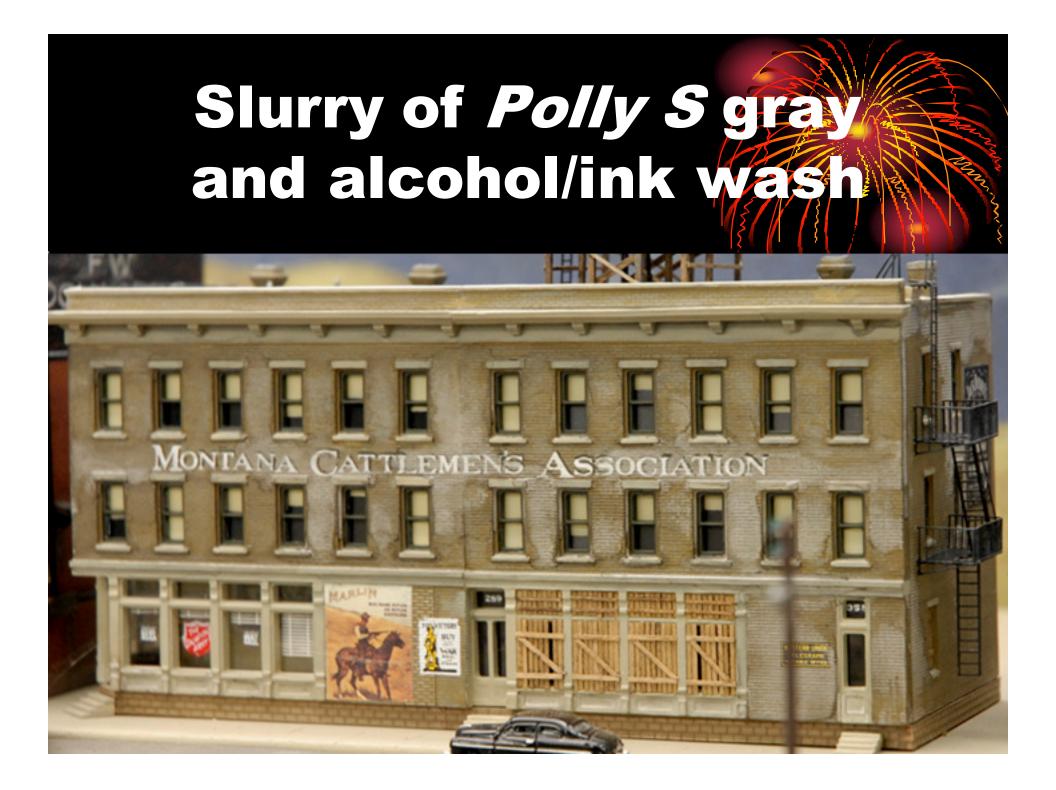


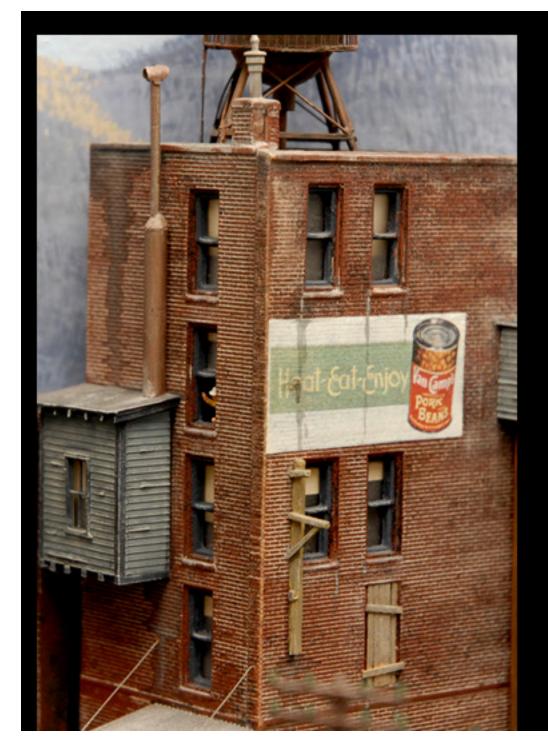
This texture paint offers a textured surface as well as variegated color. It does not attack styrene.



BRICK MORTAR

- Slurry of *Polly S* gray and alcohol/ink mixture (two teaspoons to a pint of alcohol)
- Robert's Brick Mortar
- Two coats of different colors, one slightly sanded
- PaperCreek products





ROBERTS BRICK BRIC

Allowed to dry.

Rubbed off with a rag.

BASIC COLOR Boxcar red (solvent based) SECOND COLOR Concrete (water based) Second color sanded lightly with 400-600 grit sandpaper



PaperCreek products

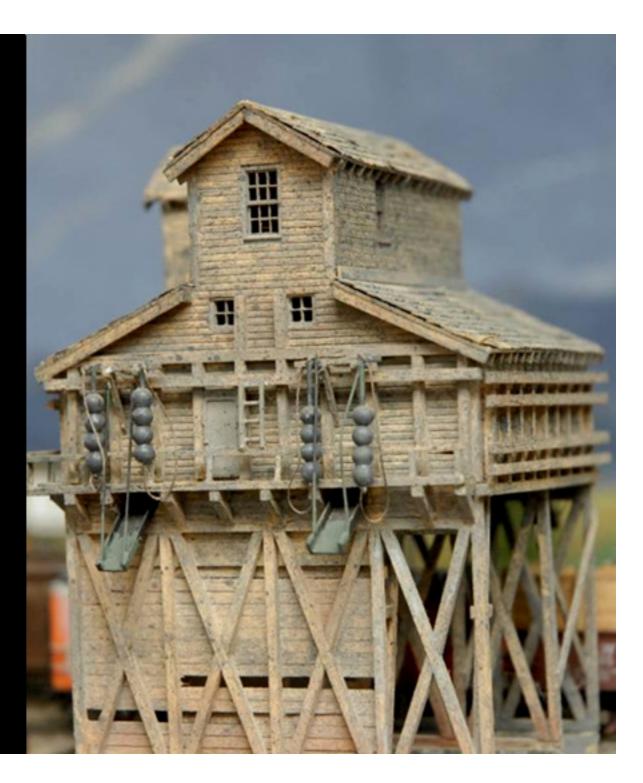


WOOD SURFACES

- Pre-stained
- Post-stained
- Prisma markers
- Painted
- Solvent based applications
- Water based applications

PRE-STAINED Use about three colors of stain to achieve variation



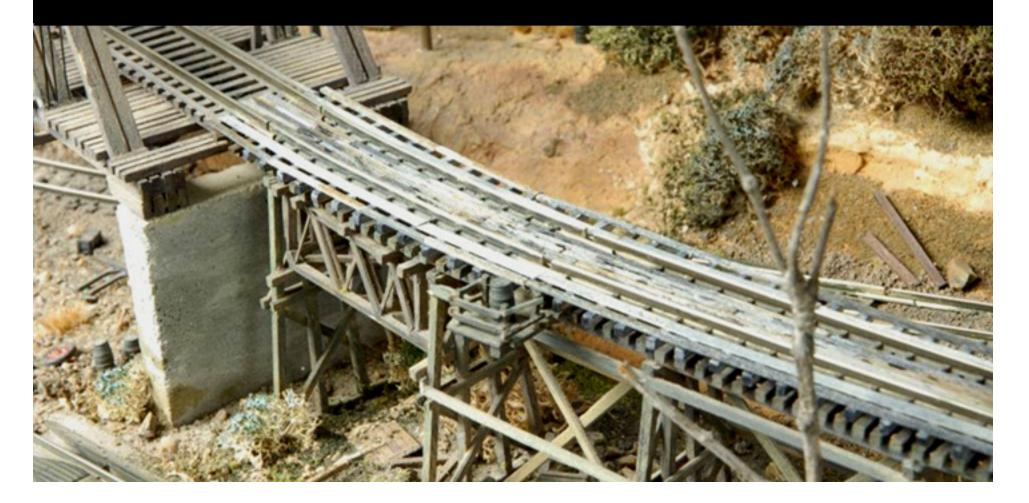


POST-STAINED

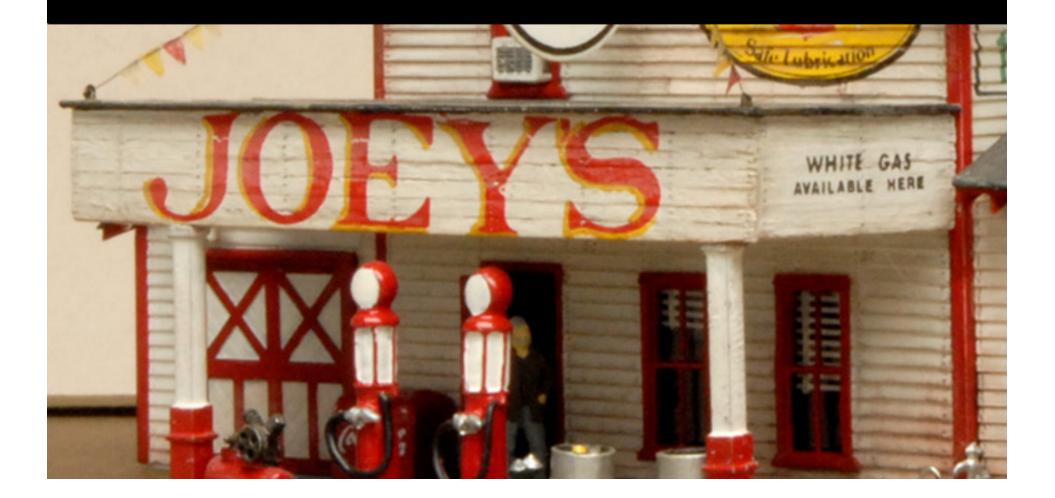
Saturated with a stain of turpentine and "dirty" gray...

Misted while wet with spray bombs

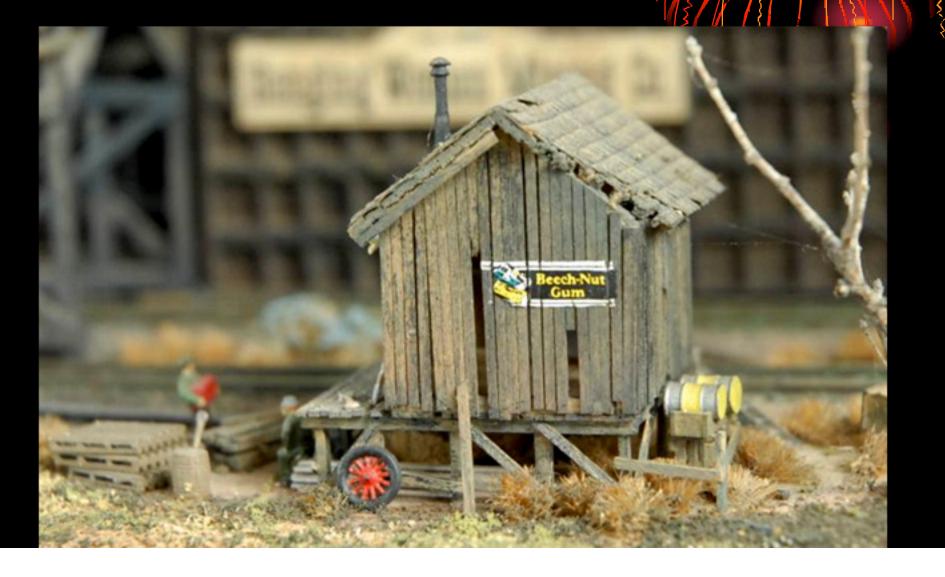
PRISMA MARKERS These markers come in varying shades of gray and other colors demarcated by 50%, 60%, 70%, etc.



PAINTED WOOD Use alcohol/ink mixture as a wash after painting to help define the individual boards



SOLVENT BASED Post-stained with dirty Dio-Sol



WATER BASED Post-stained with *Polly S* and alcohol as a solven



WATER BASED Post-stained with "Oily Black" *Polly S* and alcohol/ink mixture



LIGHTS Be sure to paint the insides of lighted buildings black

WEATHERING



- Wash
- Wet-in-wet
- Dry-brush
- Chalk and powders
- Encrustation
- Etching

BASIC TOOLS AND PIGMENTS

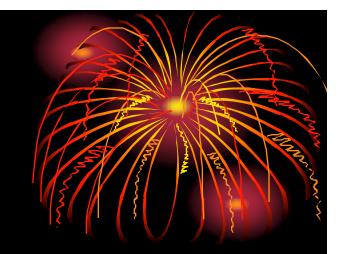
TOOLS

- Brushes
- Sponge make-up applicators
- Blending stumps
- Half-pans
- Airbrush
- Solvents

PIGMENTS

- Paints
- Inks
- Chalks & powders
- Pastels
- Charcoal sticks
- Colored pencils

WASH



- Transparent or semi-transparent application of solvent and a minimum of pigment
- Solvents can be spirit-based or water based
- Amount of pigment can be varied depending upon the effect desired

This structure was "washed" using alcohol/ink solvent and *Polly Scale* "Dirt" color. The underlying color, gray, easily shows through the transparent wash.

WASH



WET-IN-WET

Sometimes called a "bleed", the wet-in-wet technique is the mixing of two wet colors (or more) on the model itself.

- After the first color is applied <u>and still wet</u>, the second color is applied over or adjacent to the first one.
- Since both are wet, the colors "bleed" into each other.

WET-IN-WET Here, solvent (alcohol) has been

"floated" over the whole sign. Then, Polly Scale "Rust" has been added while the solvent is still wet and allowed to "bleed" to create the water stain.



WET-IN-WET Alcohol solvent was "floated"

over the entire cement area (plaster), and Polly Scale "Rust" was added to create the vertical staining.



DRY-BRUSH

Dry-brush is the use of opaque paint applied so that it adheres lightly to only the highest contact points on the surface.

- Requires a DRY brush.
- Thicker paint is preferable.
- Dip the brush in the paint and scrub off most of the paint on a paint rag.
- Then drag the brush across the surface of the model.



DRY-BRUSH Here, the eaves under the

roof line have been dry-brushed with gray Polly Scale to simulate residual paint that has not completely deteriorated over many years.

DRY-BRUSH Here, the clapboards and

brick have been dry-brushed with Polly Scale gray to add weathering texture to the structure.



DRY-BRUSH Dry-brushing simulates

light that bounces from raised surfaces, such as, the trim around the windows. Use white or light gray.



DRY PIGMENT Powdered chalk, pastels, charcoa

Dry pigments can be purchased in art stores & some hobby shops:

- Carr's or Bragdon's Weathering Powders
- Tempera pigments
- Pastels
- Dry pigments can also be created by rubbing chalks or pastels onto medium grit sandpaper.
- Dry pigments can be applied with a brush.
- Unless the model is to be handled frequently, dry pigments do not need a fixative.

Pastel dust has been applied to the top and lower parts of this oil tank.



Rust colored chalk dust has been brushed on the through girder bridge (heavier at the bottom).



Chalk dust at the bottom of structures simulates the mud splatters that occur during rain, etc.



Chalk dust also can be used on plaster, such as this cement retaining wall.



ODDBALL STUFF

Testors Dull-cote chemically reacts with alcohol to produce a unique "clouded" weathering effect.

PC board etchant (Archer's is a common brand) is great for etching the surface of corrugated metal sheets. (Be sure to use hand & eye protection—etchant is a corrosive!)



The whitish encrustation on this tank was created by spraying it with Dullcote, and then after the surface had dried (about 15 minutes), spraying it with alcohol.

Here, each individual sheet of corrugated metal was dipped into etchant until it began to bubble. When removed from the etchant and the reaction stopped with water, chalk dust can be applied.



WINDOWS

While windows are often taken for granted, they offer one of the most distinctive opportunities for individualizing structures.



Glazing

Micro Krystal Klear (above)

Acetate (right)



Open Windows







Boarded









Bricked or Shuttered





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Etched Mullions & Wood Frames







A ANNAL



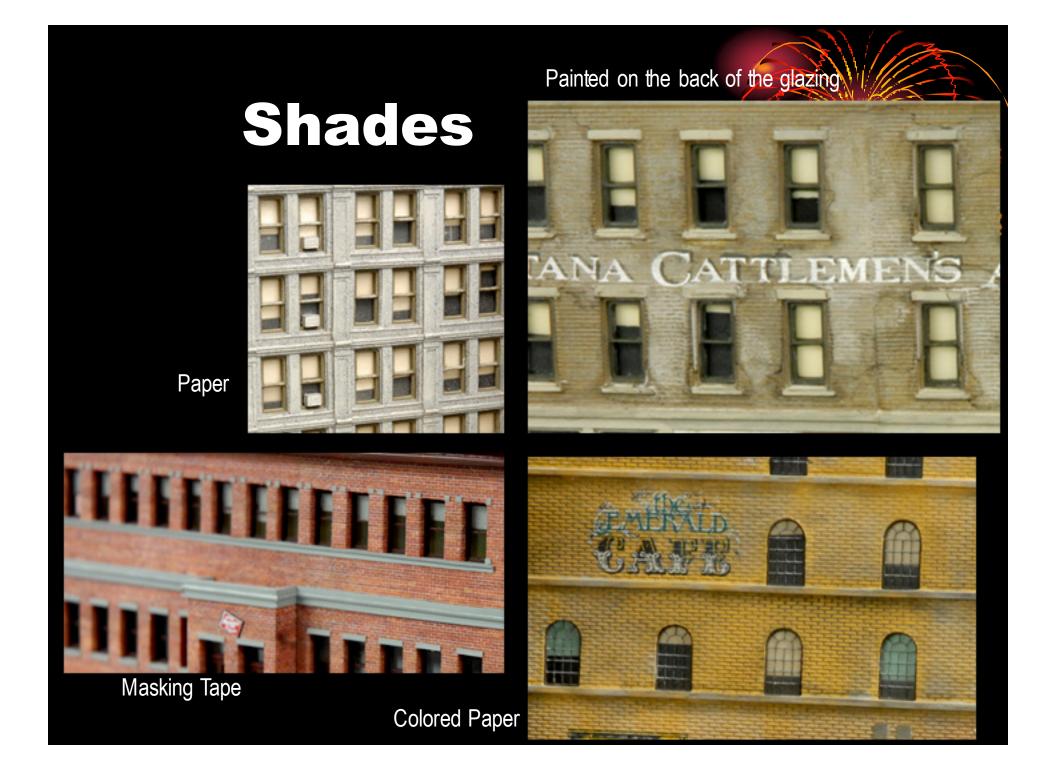
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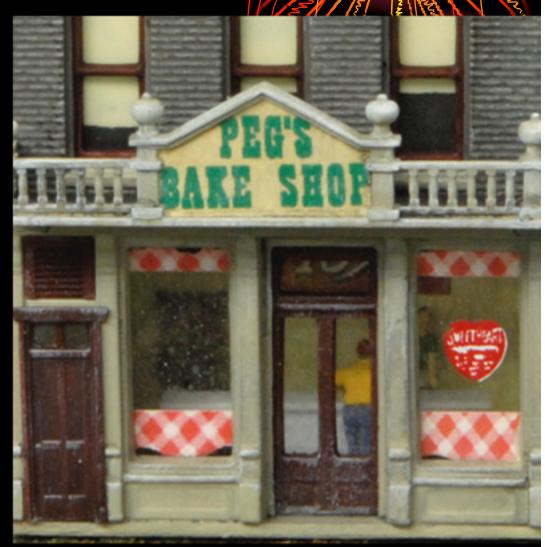
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Blinds, Curtains & Signs





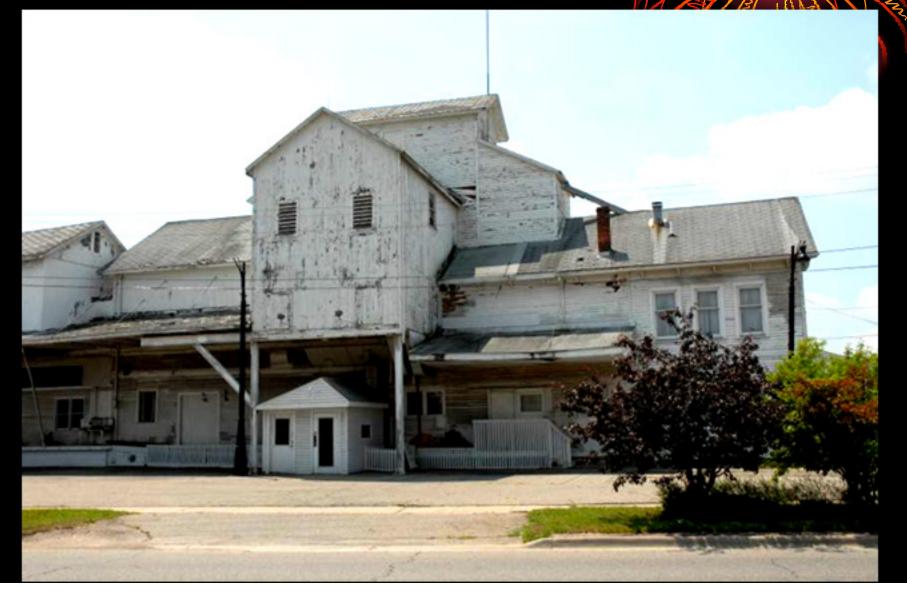
DETAILS

Details are one of the best bets for making a structure look authentic.

- Check old photographs in the public library for authenticity
- Take your own photos of period structures that still are standing
- Visit hobby shops around the country and even in other countries when traveling (you'll be surprised at what you might find available from small cottage industries)

The Old Mill in Fenton, M

Prototype Photo



Prototype

Milw station converted to a feed mill, Grass Bange, Mil



Finkbeiner Elevator

Built from photos I took of the structure in Grass Range, Montana. Colors, boarded windows, foundations, and doors would be hard to "imagine" without photo reference.



Period photos help direct attention to typical implements outside a structure.



Once again, actual photos offered the best resource for detailing this elevator from central Montana.

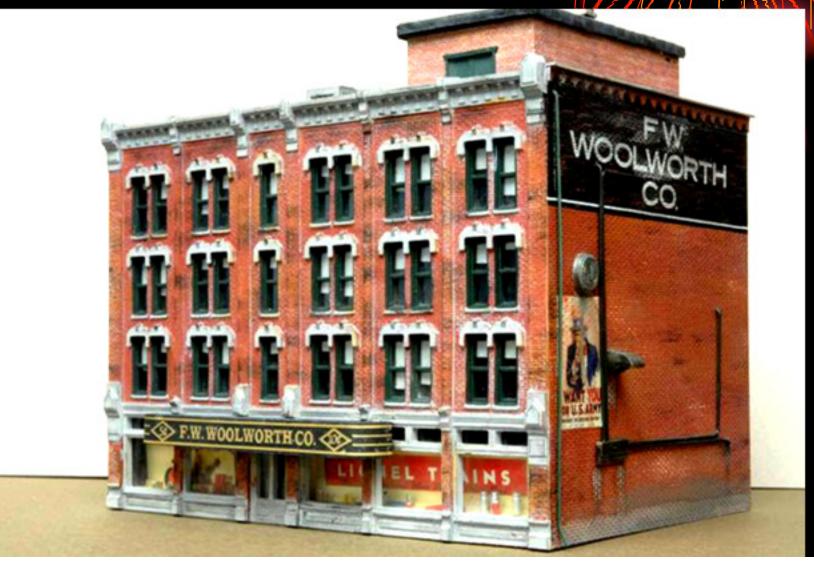


Prototype Feed Mil

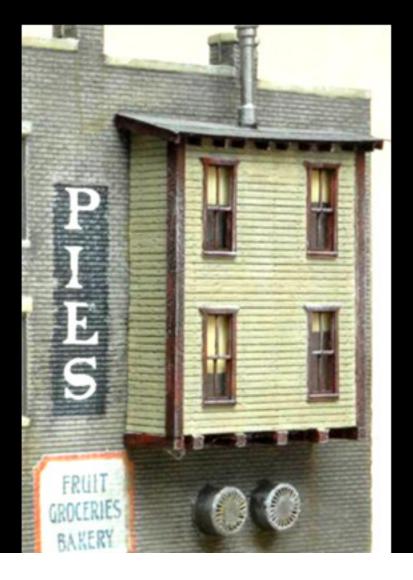
Grass Range, MT



Don't forget to detail the interiors, especially storefront windows. These details can be completed on a separate floor and inserted into the shell of the building.



Scratch-built bay-windows are easy to build and add character while changing the profile of kits.

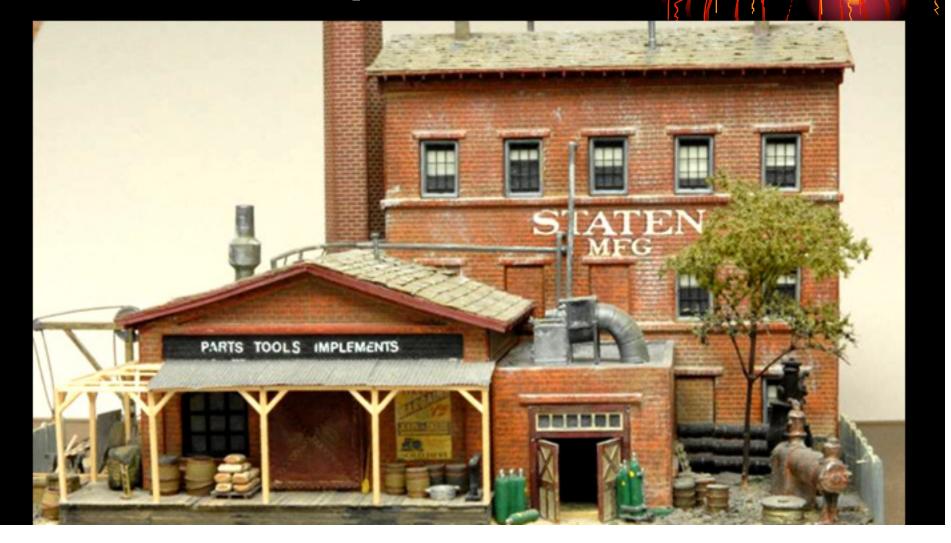




Two different types of shingling suggest that the garage was an add-on at a later time.

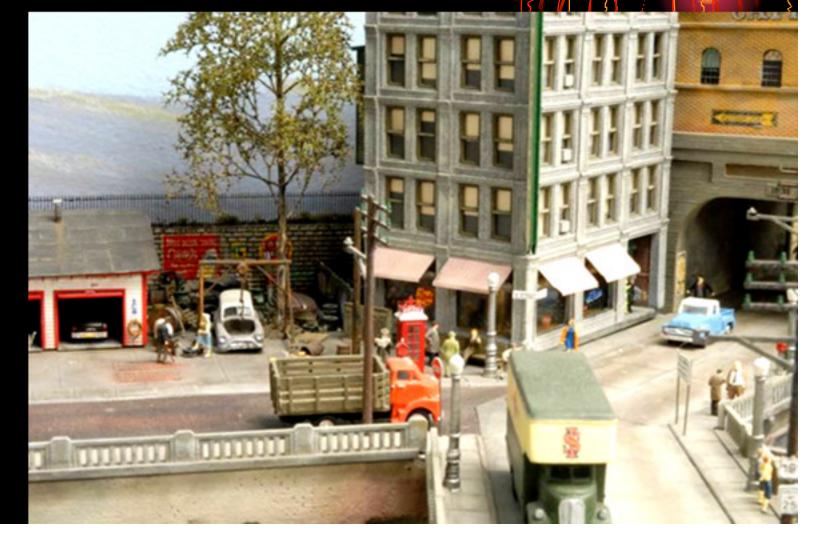


This is a standard kit, but the roofs have been scratch-built and many outside details added. Don't forget to model some open doors!

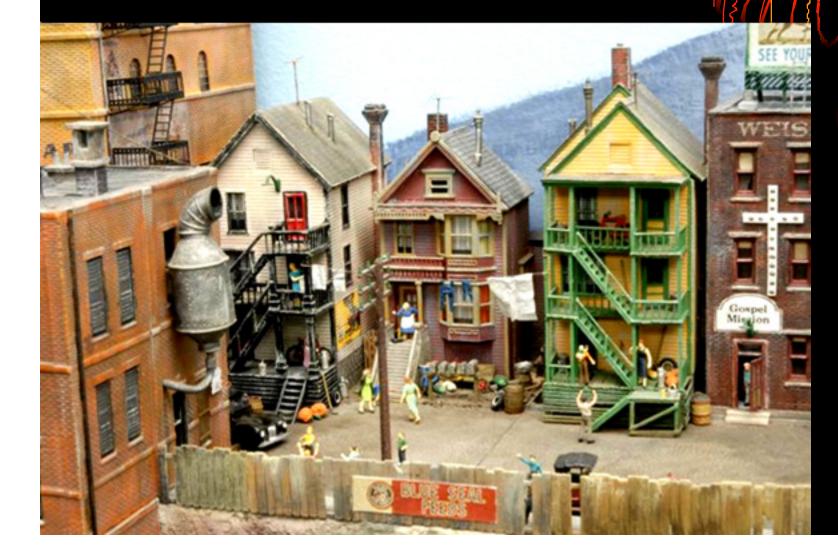


City streets, especially, lend themselves to abundant details

Phone booth Street lights Awnings Street signs Junk!

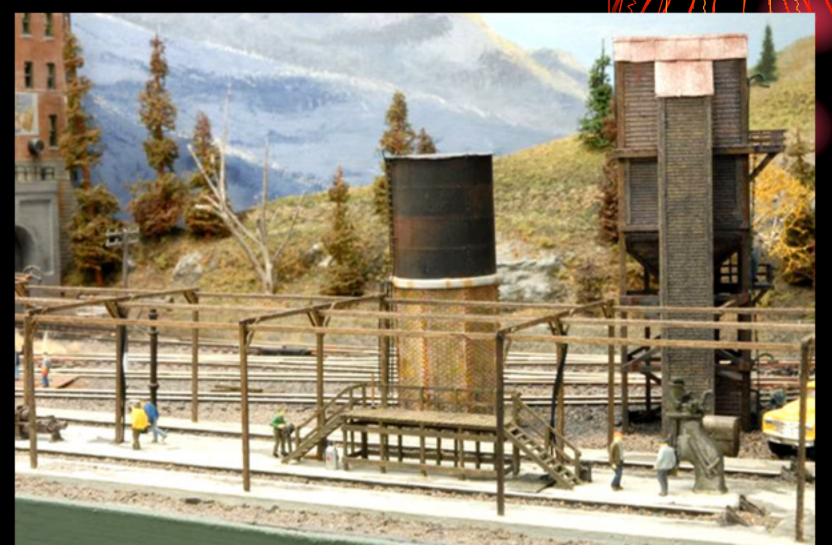


Tenements in the "run-down" section of town are also places begging to be super-detailed.

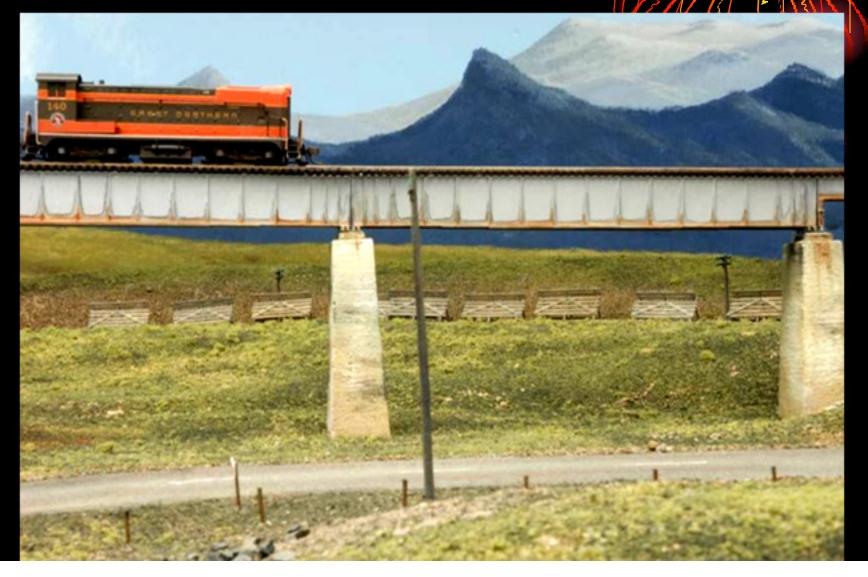


Porches Clothesline Mailboxes Tires Cans, bottles, barrels & boxes

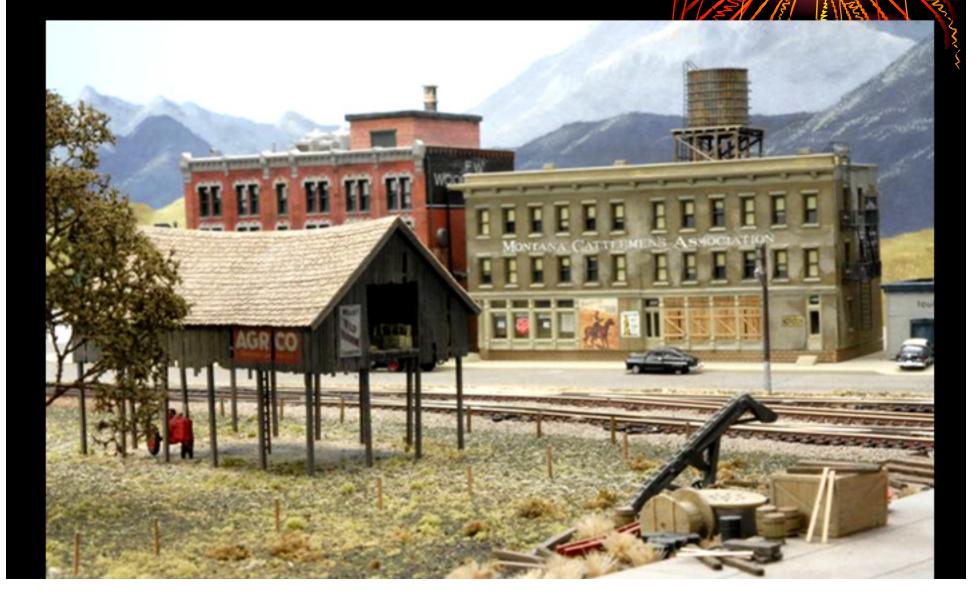
The interiors of structures can be built on a separate base with the structure fitted over it like a shell.



If you model the West, snow fences are a common sight.



Detailing can be overdone, but most layouts could use more, not less



Coffee grounds make admirable manure droppings! If you ship sheep or hogs as well as cattle, don't forget you need double-chutes.



Mostly, detailing is a matter of logic and observation as to what details to add.

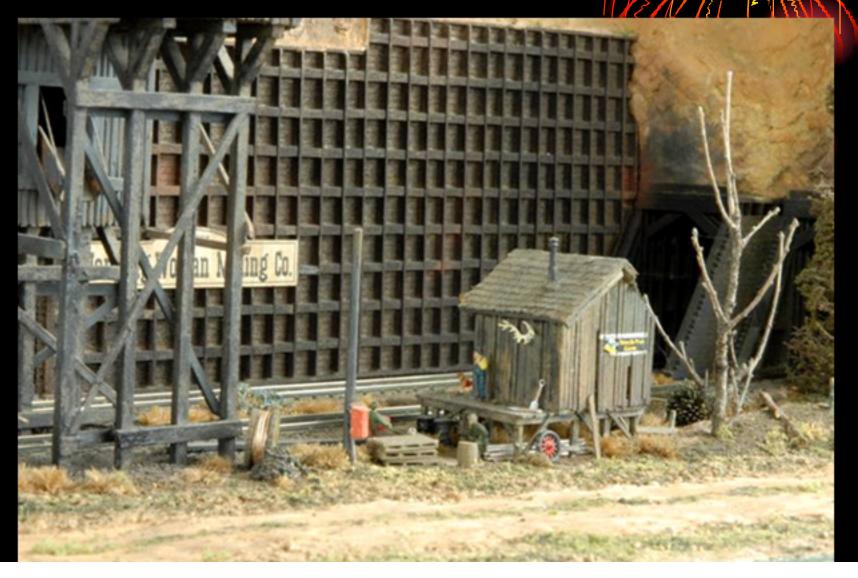
Barrels Acetylene tanks Tires Pop machine



The "Mack" old truck I found as a white metal kit in St. Helens, England, along with several other details.



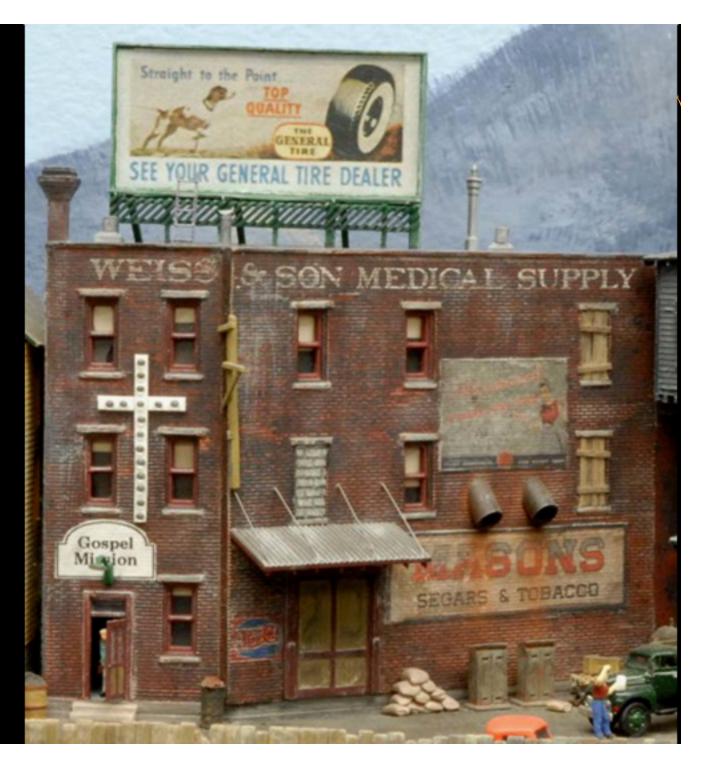
Antlers don't need to stay on the Preiser deer!

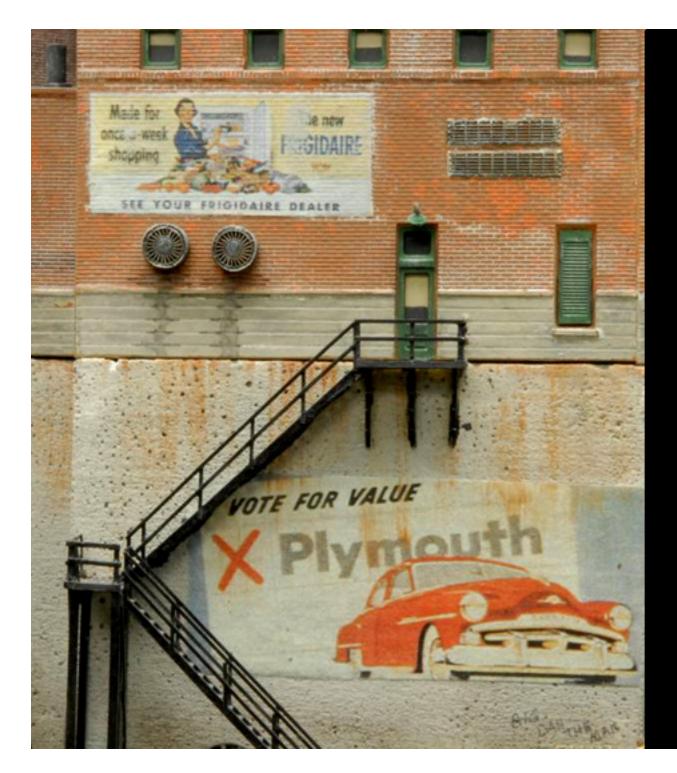


SIGNS

In additional to "filling out" scenes and structures, signs help establish era and locale.

Good source of period signs: http://www.desperate.com Older buildings, especially, often have signs for more than one former occupant.



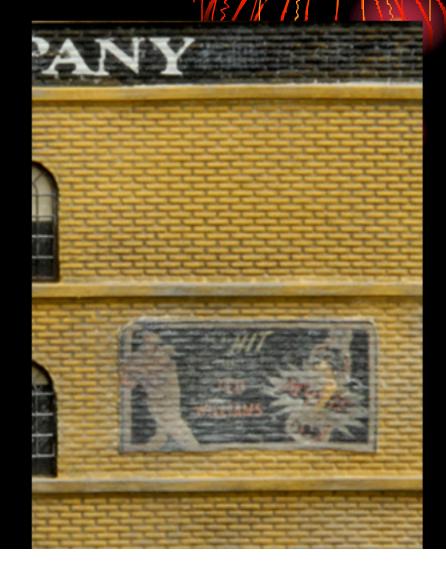




Signs often show the era of your layout.

Signs can be "embossed" over siding and brick, which gives the effect that they are painted on.

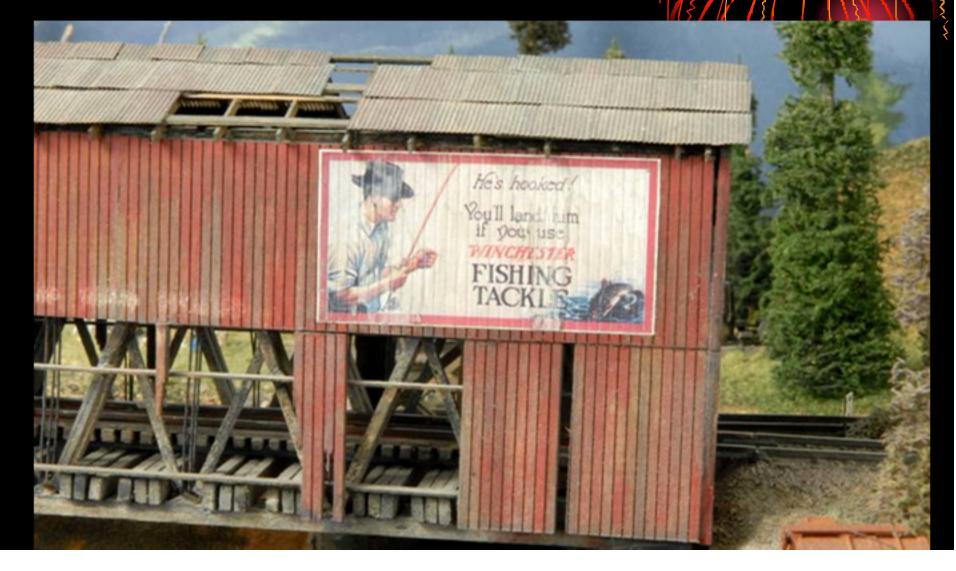




Many times, signs have no direct relationship to the building on which they appear.



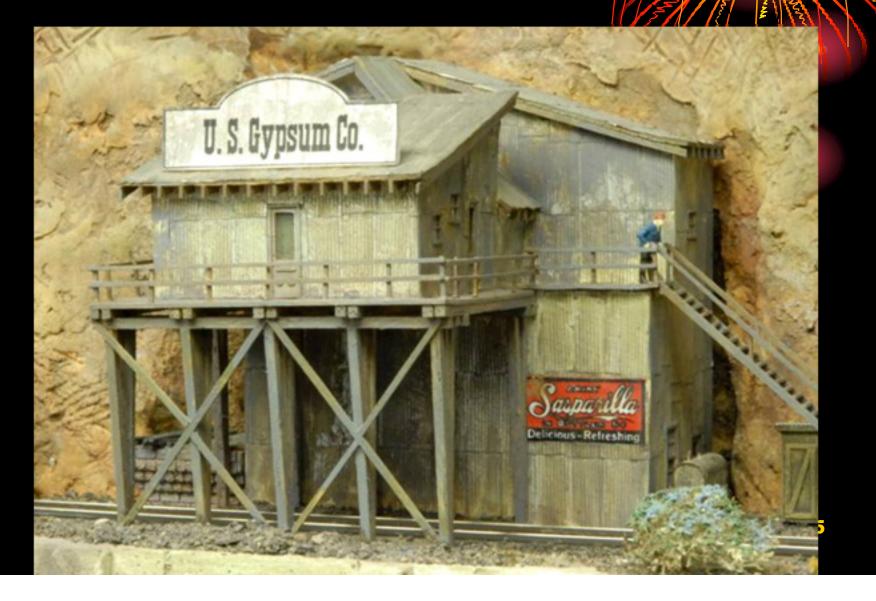
Not only do signs help establish era, they also go a long way toward establishing geographical location.



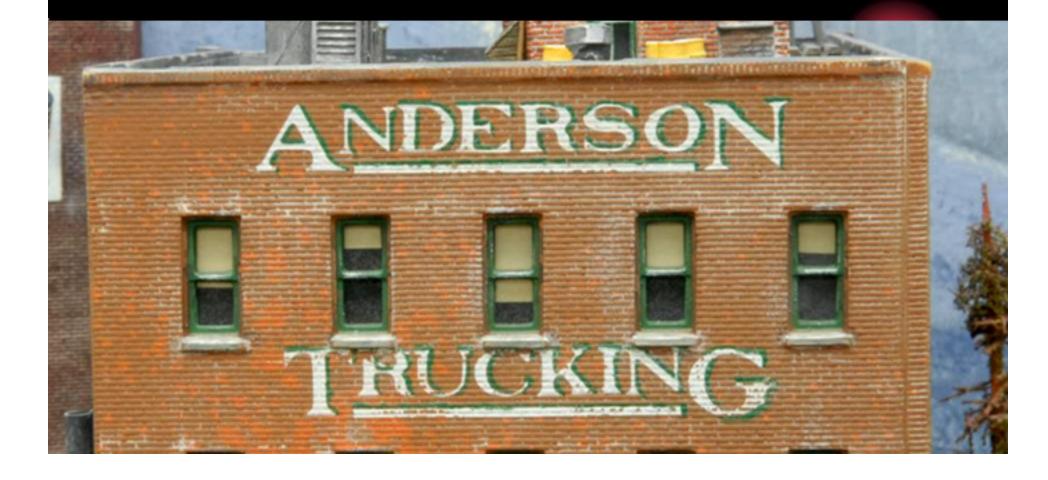
When adding signs, be sure to add them <u>before</u> you complete the weathering, so they appear to have been there a long time.



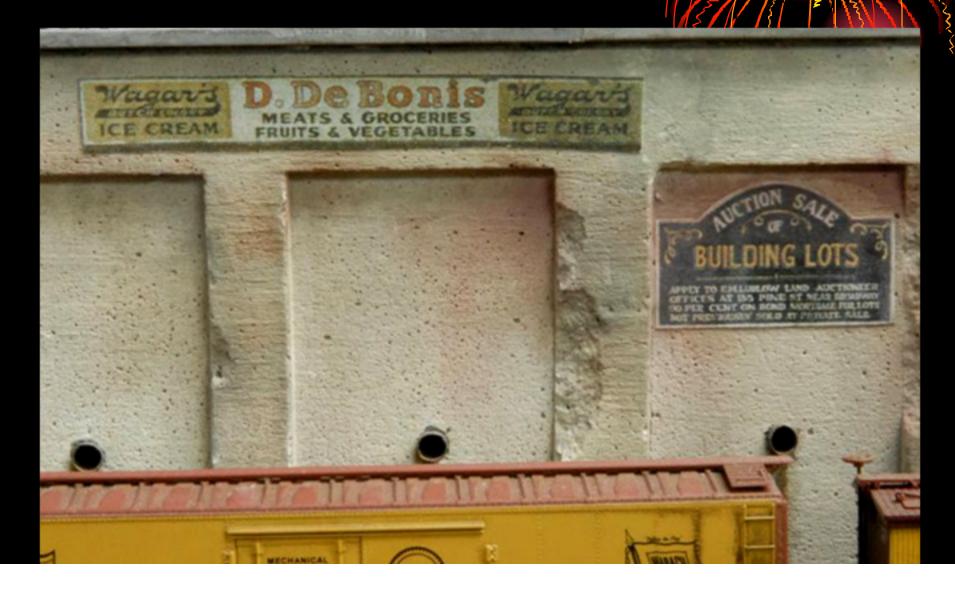
Simple signs can be constructed on a computer.



Dry transfer lettered signs can be enhanced by shadow-lining the letters.

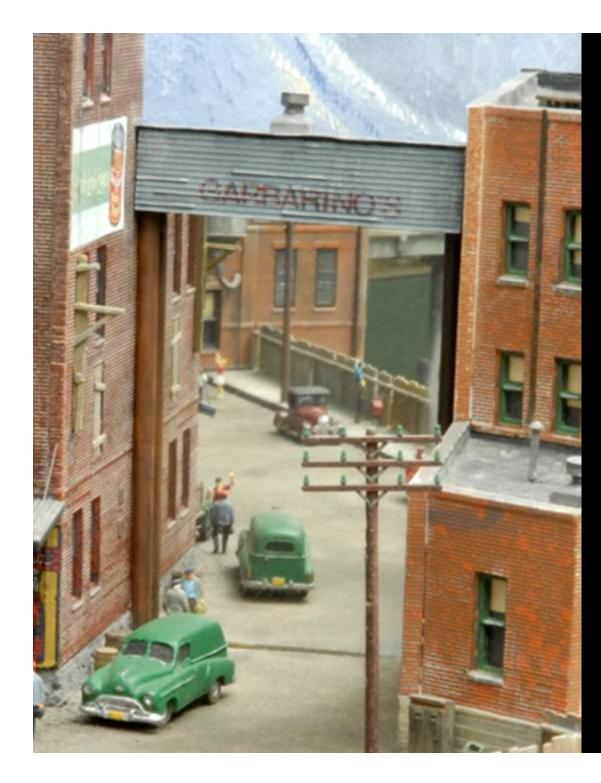


Model signage can be made from photos of actual signs.



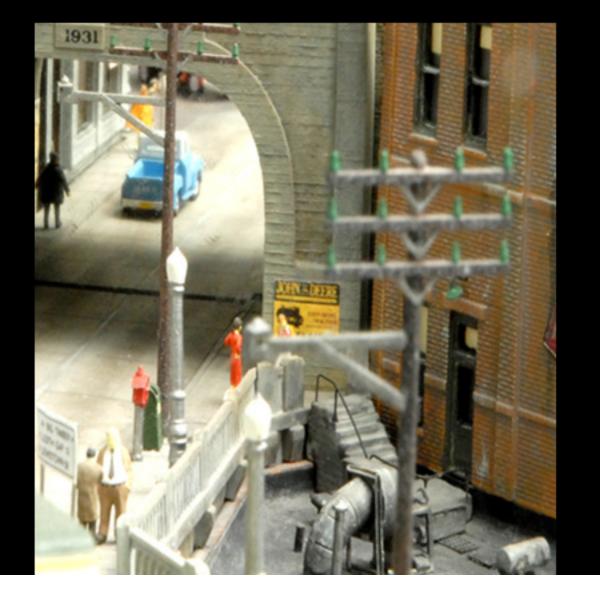
Roof Access

Buildings in commercial districts often have access connections between them via crossovers or multi-levels.



A roo acces between structures becomes an excellent way to hide the top edge of a mirror.

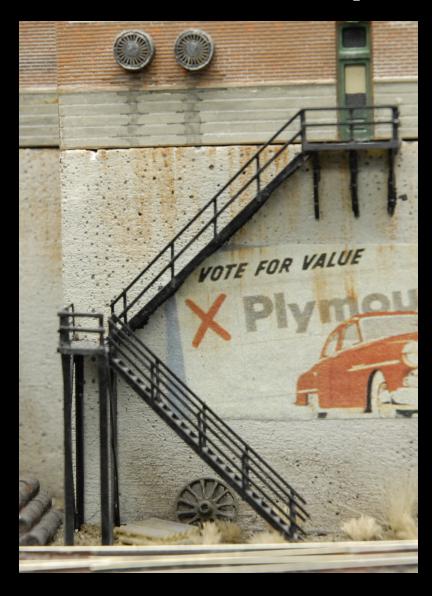
Multi-level structures can have street access to an upper story.







Don't forget the visual appeal of outside stairs and fire escapes!



Roof structures to hold mechanical elevator equipment offer a way to enhance larger structures.









ROOFS

In ordinary life from street level, one rarely sees much of roofs. On layouts, they are very prominent and call for more attention.

Wood Shingle Roofs:

Use registration lines on the sub-roof in order to keep the courses of shingles evenly space (or curved, if the roof is sagging).







Tile roofs can be constructed from Evergreen corrugated stock by scribing horizontal lines.

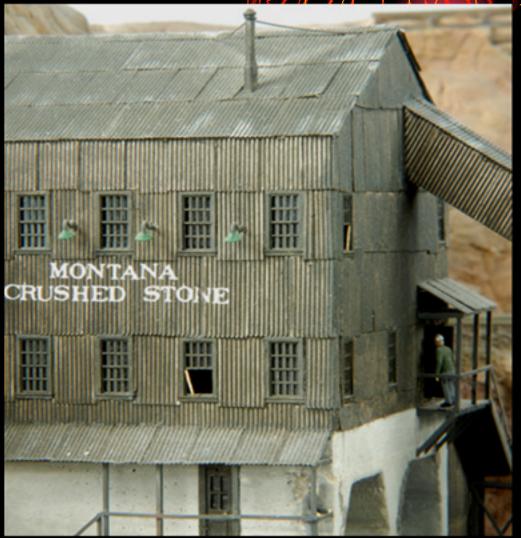


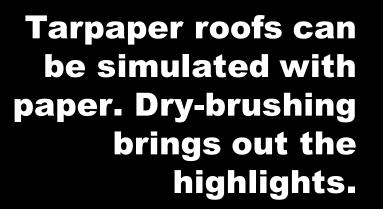
Composition shingles can be constructed from brown paper packaging tape.

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Corrugated metal roofs can be painted; they also can be etched with PC board etchant, then weathered with chalks.









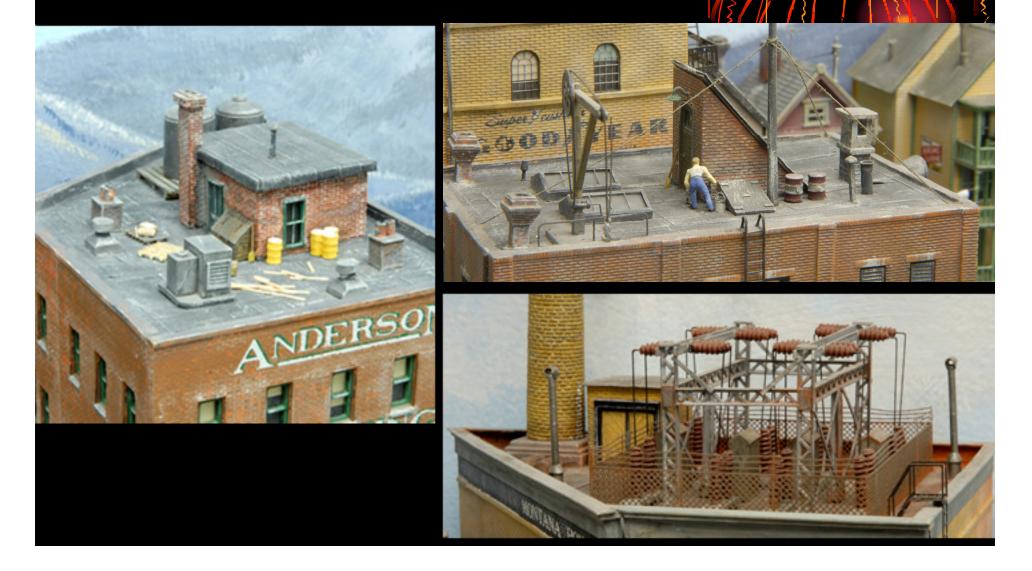
Use gloss black to simulate tar sealant.



Leaving some portions of the roof exposed allows viewers to see the "inside" stuff!



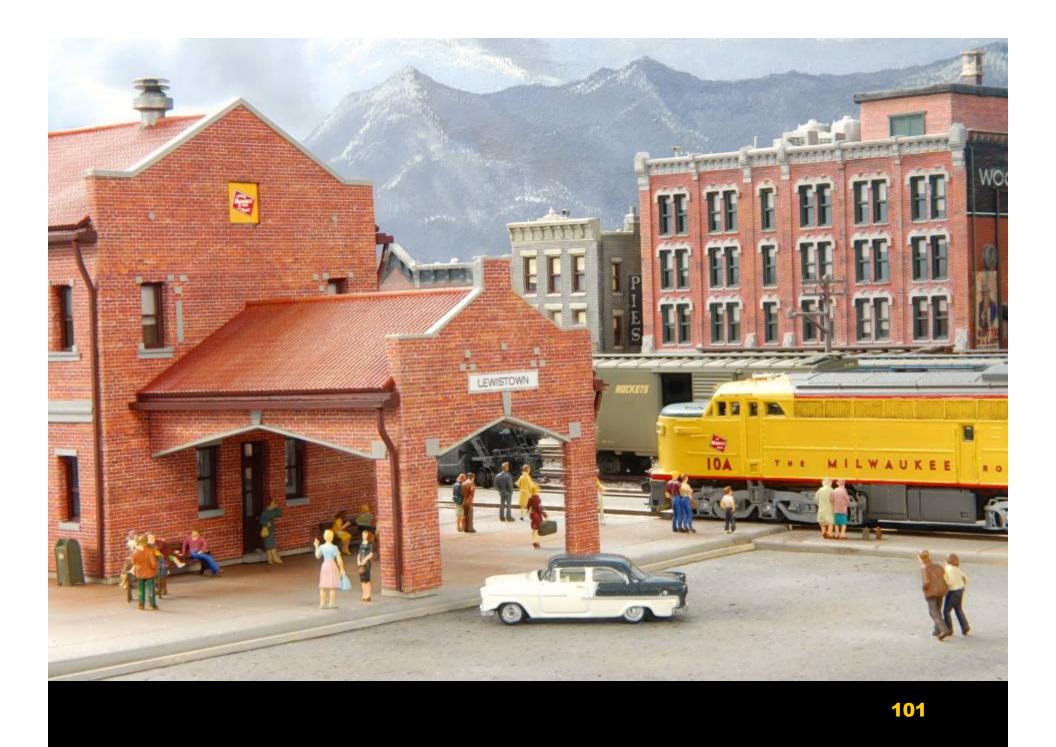
Especially on flat roofs, roof clutter makes an excellent opportunity for extra detailing!

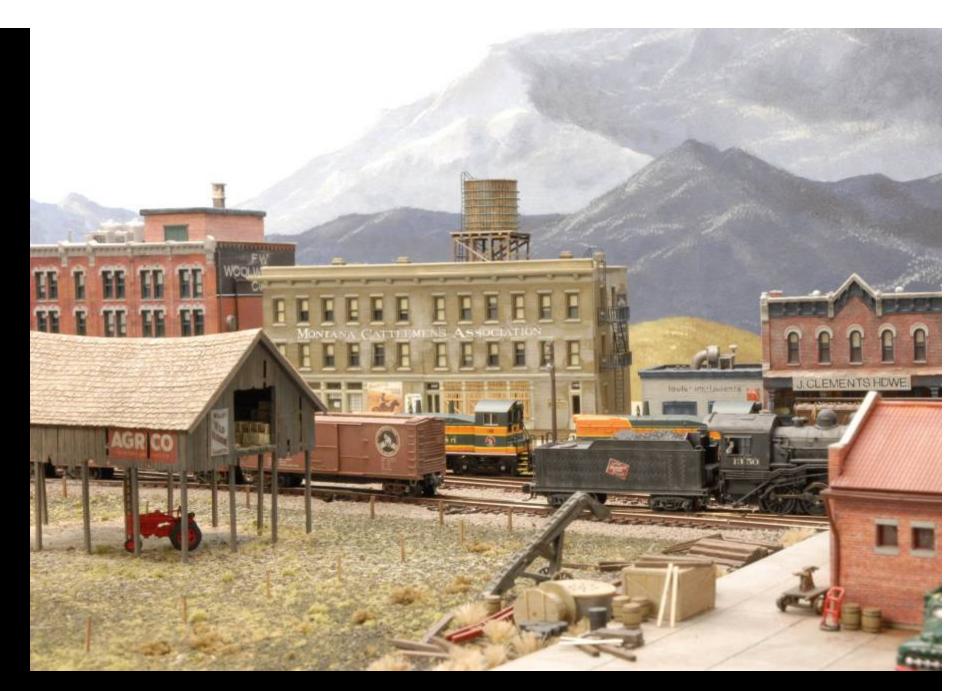


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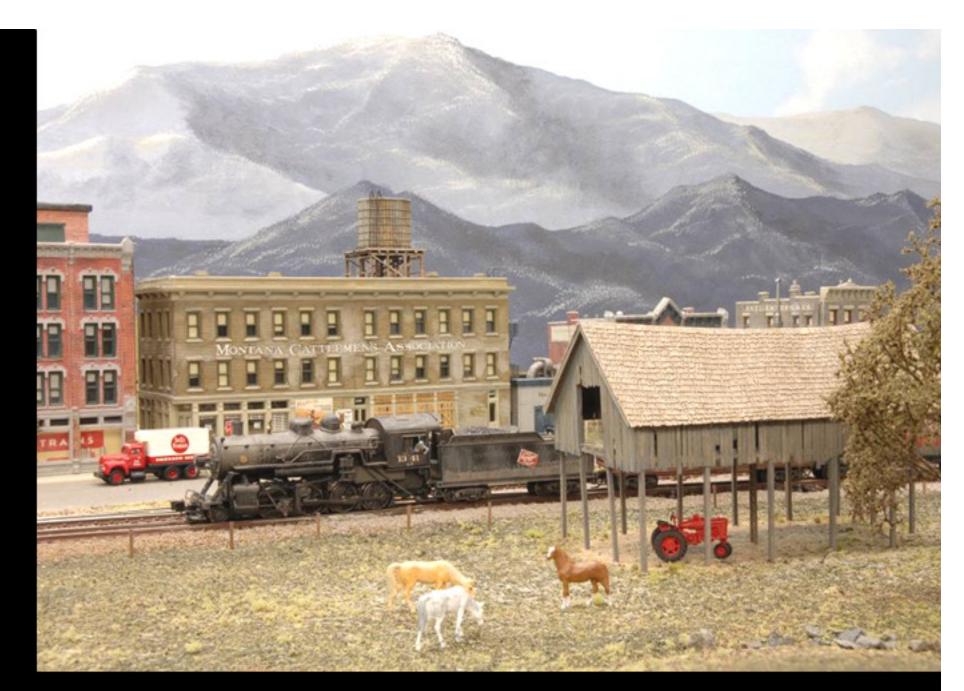
Pulling It All Together...

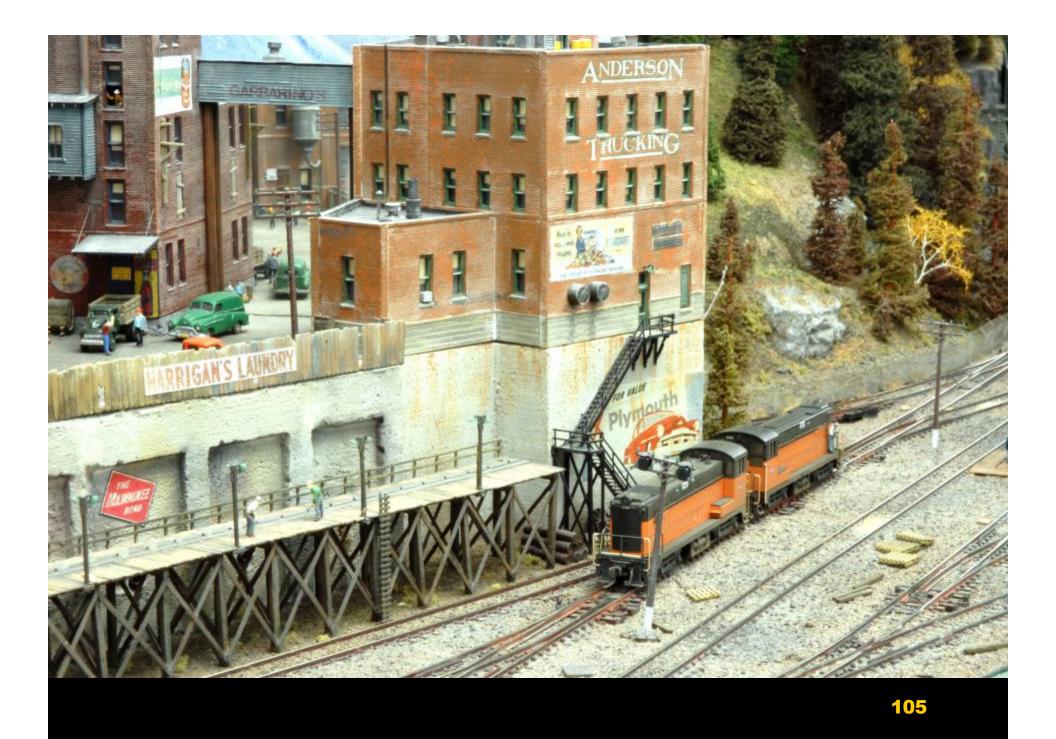
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Thanks for your hospitality!

That's All Folks!