Bat Condo



Wisconsin Department of Natural Resources

Bureau of Natural Heritage Conservation

Wisconsin Bat Program

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WDNR: <u>dnr.wi.gov</u>

WI Bat Program: wiatri.net/inventory/bats



Introduction

This bat condo is designed to house little brown bats (*Myotis lucifugus*). Given the area and baffles, this condo can house up to 3,000 bats during their maternity season in summer. The condo mimics a barn or attic where little brown bats are often found roosting. This condo can be placed in conjunction with exclusion in barns and buildings and it not only keeps the beneficial animals in the area, it can also make the exclusion much more successful because the condo offers the bats an alternative place to roost.

Several bat condos of this design have been placed in areas throughout the state. Devil's Lake State Park, Kohle-Andrae State Park and Peninsula State Park have all installed condos over the past few years to help manage existing colonies and encourage bat habitation in the parks. Little brown bats will use these condos from April through October every year. Creating roost structures such as this condo offers the bats a safe, warm place to raise their young during a critical time in their life cycle.

The attached plans are adapted from those created by Pennsylvania Game Commission. The structure is half the size of Pennsylvania's Bat Condo which measures eight feet by eight feet, and is eight feet tall. The condo developed by Wisconsin Department of Natural Resources measures four feet by four feet, and is four feet tall.

Check out Pennsylvania's plans for more information on condos: <u>http://www.batsnorthwest.org/bat_condo.pdf</u>

Instructions and where to place the condo

There are a few tips that should be followed to increase the chance of bats using the condo.

- Do not use green treated lumber for the interior of the condo. Bats will generally avoid such wood because of the smell and potentially toxic materials used to treat the lumber.
- All interior surfaces should be scored or roughened so the bats have something to hang onto. This can be time and labor intensive, but it is critical to offer appropriate bat habitat.
- To maximize likelihood of bat usage, the condo should be placed where the bottom is at least 8 feet from the ground, where the structure will get 10 or more hours of sun per day, located within 1/4 mile of water, within 30 yards of cover (trees, bushes), and in an area where it is reasonably protected from human disturbance.
- This means the condo should not be placed in a shaded location, near burn barrels or campfires, or close to busy roads or other high human traffic areas to minimize disturbance.

Ways to build the bat condo:

- Hire a professional contractor
- Coordinate a group of volunteers or students with guidance from a carpenter

Please contact Heather Kaarakka with questions related to condo construction and placement. Heather.kaarakka@wisconsin.gov or 608.266.2576



Gibraltar High School Ecology Club students pose inside the frame of the condo they helped build for Peninsula State Park. Kathleen Harris, WDNR

Materials List

Itom	Drojact Lica	Itom	Droject Lice
ltem	Project Use	Item	Project Use
Posts & Anchors (changed to a "post in ground" installation)		(3) D style	Roof Edge (Black)
(4) 6" x 6" x 12'	treated posts	(4) (1) 4' x 8' x ¼" BCX	Soffit Plywood
(4) 6" x 6" x 16'	treated posts	(1) Tar Paper	30 pound
(4) 6" x 6" professional	Post Anchors	(2) Bundles Shingles	Black Architectural
(12) ft 3/8" Rebar 10'	concrete reinforcement	(1) Hip Cover	Black 3 tab
(4) 16" Sona Tubes 4' long	concrete forms		
(23) cu ft concrete (16" holes)	51 bags / .45 CF	Baffles	
(9) cu ft concrete*	20 bags / .45 CF	(13) 4' x 8' x ¼" BCX	Baffle Plywood
*13 cu feet – 4 cu feet = 9 cu ft	(4-12" diameter holes, 4 feet	(32) 3/8" x 2' threaded rod	Baffle supports
deep, with a 6" x 6" post installed full depth).		(64) 3/8" - 16 nuts	Baffle supports
		(64) 3/8" washers	Baffle supports
Floor		(7) ¾" PVC 10'	Baffle spacers
(2) 4" x 6" treated x 8'	structural sill	(1) 1" x 8" x 8' cedar	Lower baffle land board.
(4) 4" x 4" loose pin hinges	hinge	(2) 2 x 4 8'	Upper Baffle Supports
(1) 4" x 4" X 4' treated	sill spanner		
(1) ½" exterior grade plywood	doors	Hardware	
(3) 2" x 3" x 8' treated	door stops	Siding Nails 8D	non-splitting
(4) 3" barrel blots	door locks	Roofing Nails 1 ¾″	
		Roughing Nails 16D	
Walls		Decking screws	
(2) 2" x 4" 8' treated	wall sill	Black Stain	
(8) 2" x 4" 8' treated	wall uprights		
(4) 2" x 4" 8' treated	wall top plate		
(2) 2" x 6" x 8' treated	roost bundle supports	* "= inches; '= feet	
		Cost estimate for materials	alone is between
Siding		Cost estimate for materials alone is between \$1,000 and \$1,500.	
(4) 1" X 4" X 8' cedar	corner trim	φ1,000 and φ1,000.	

(4) 1" X 4" X 8' cedar (13) 3/4" x 8" x 8'

Trusses

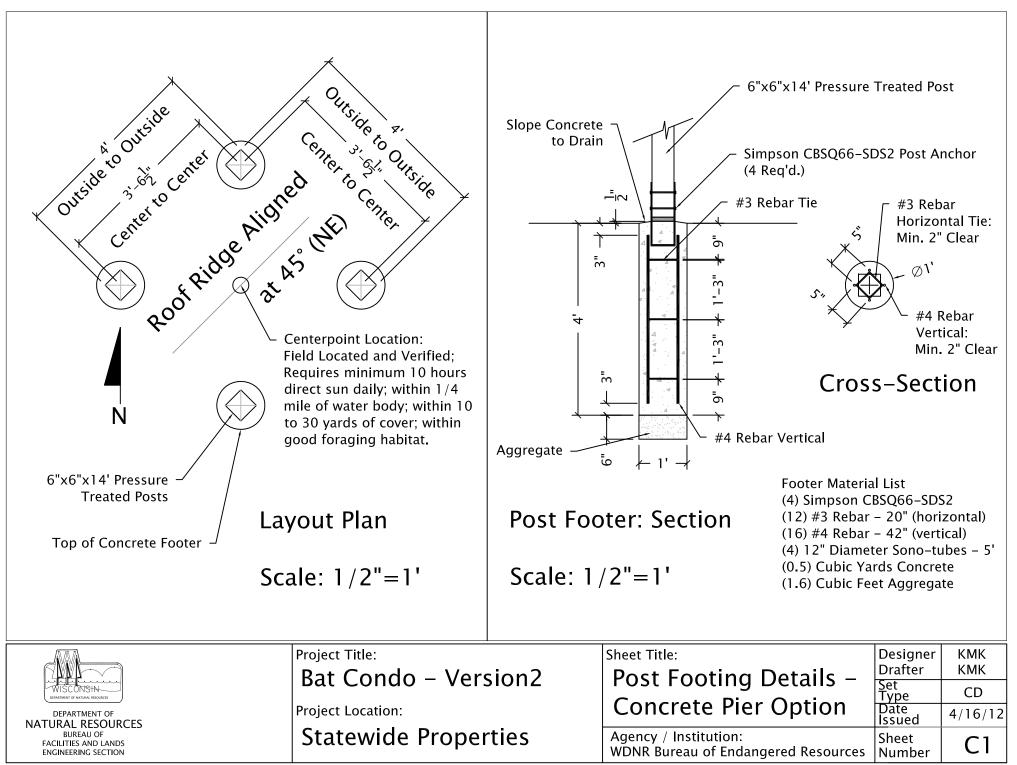
(4) 2" x 4" x 12'
(2) 2" x 4" x 12'
(3) (2) 4' x 8' x ½" CDX



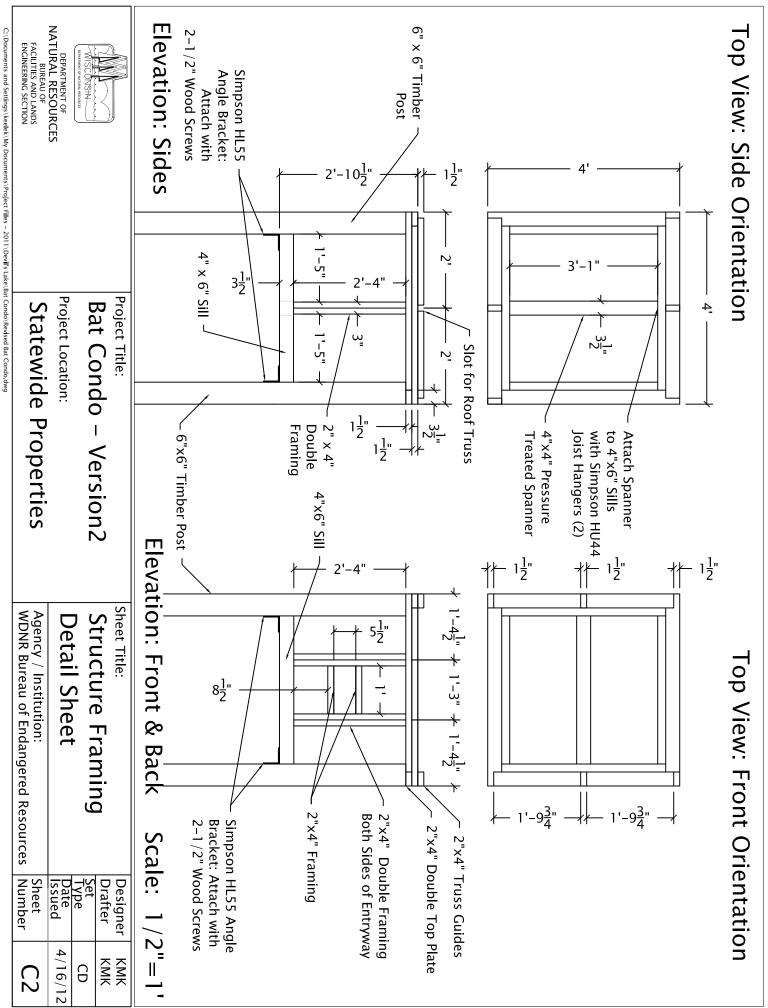
Cedar Bevel Siding

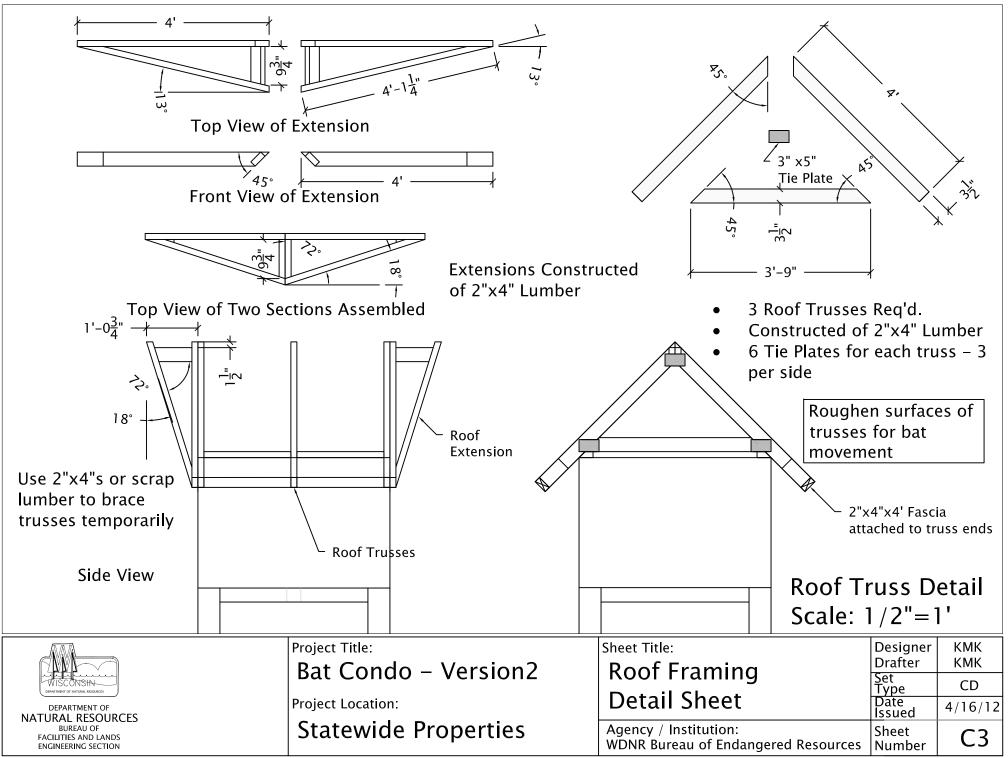
Trusses & Fascia Roof Extensions Roof Plywood



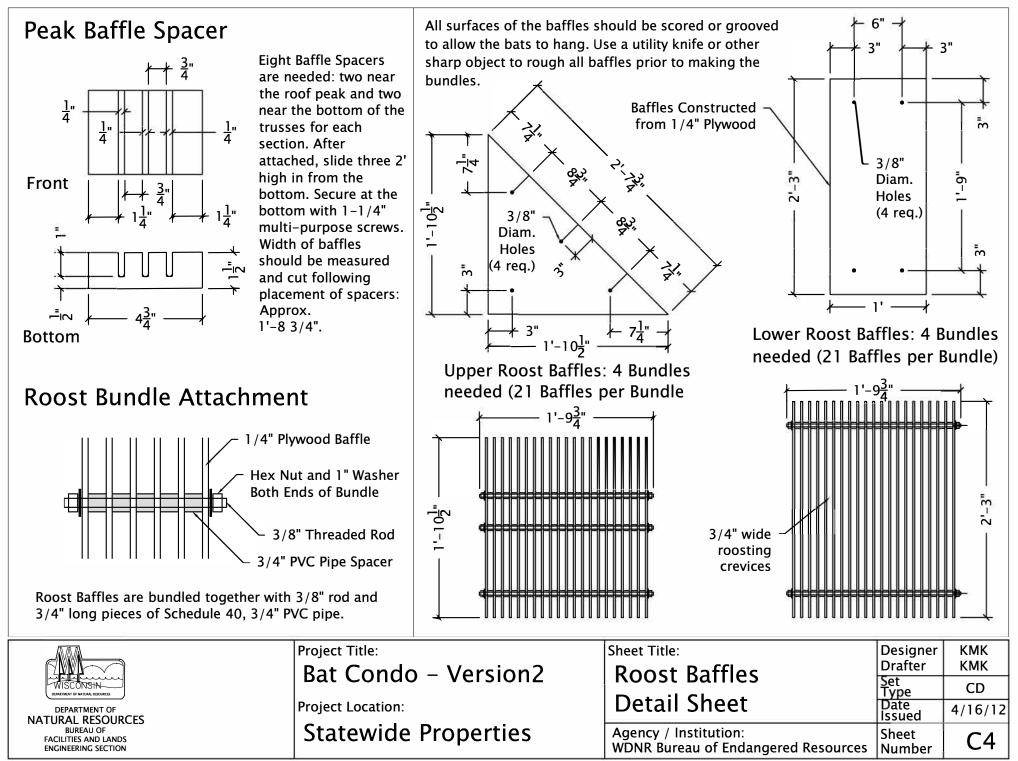


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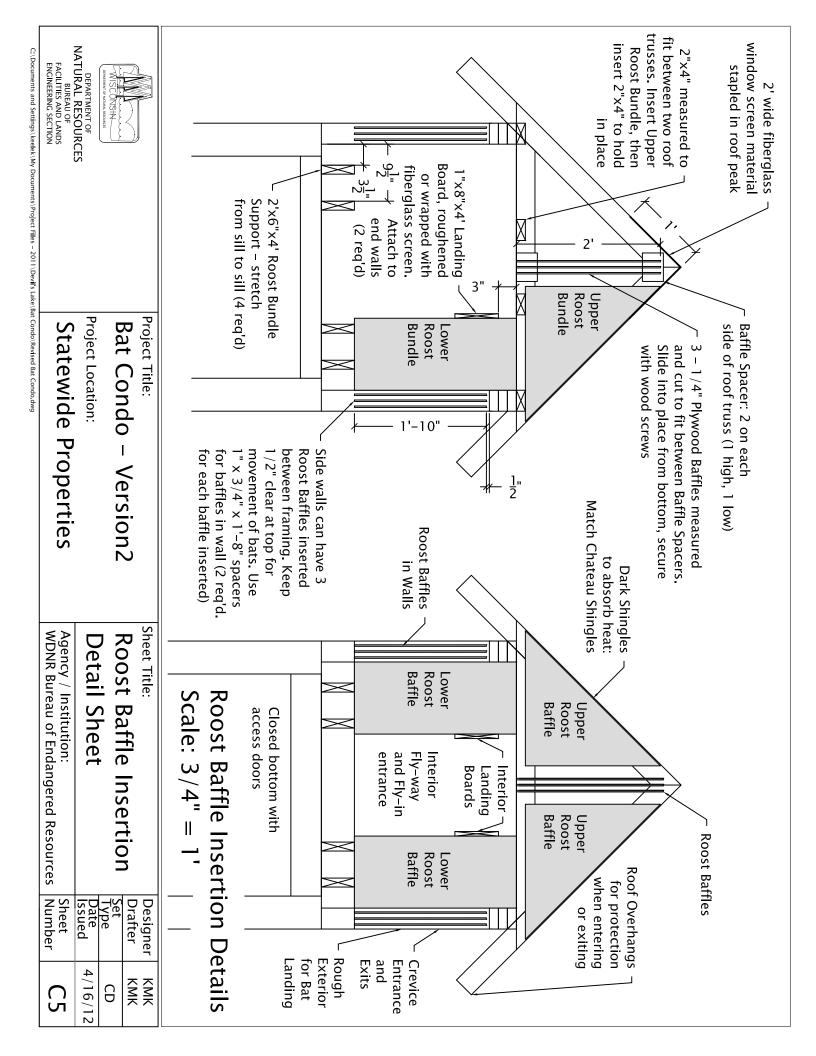


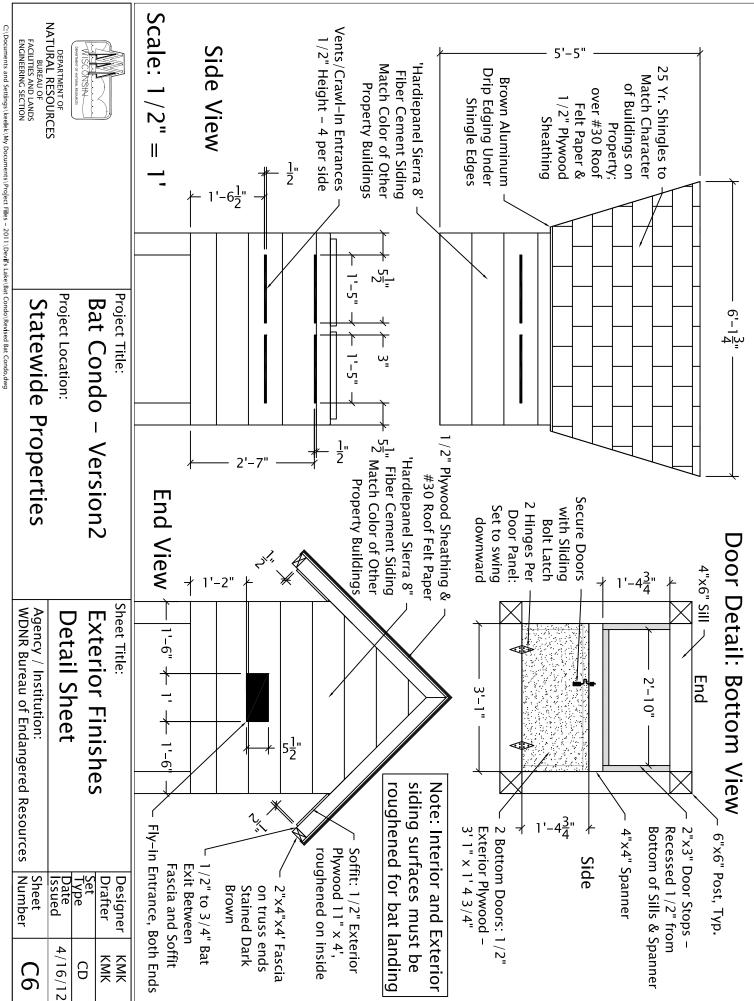


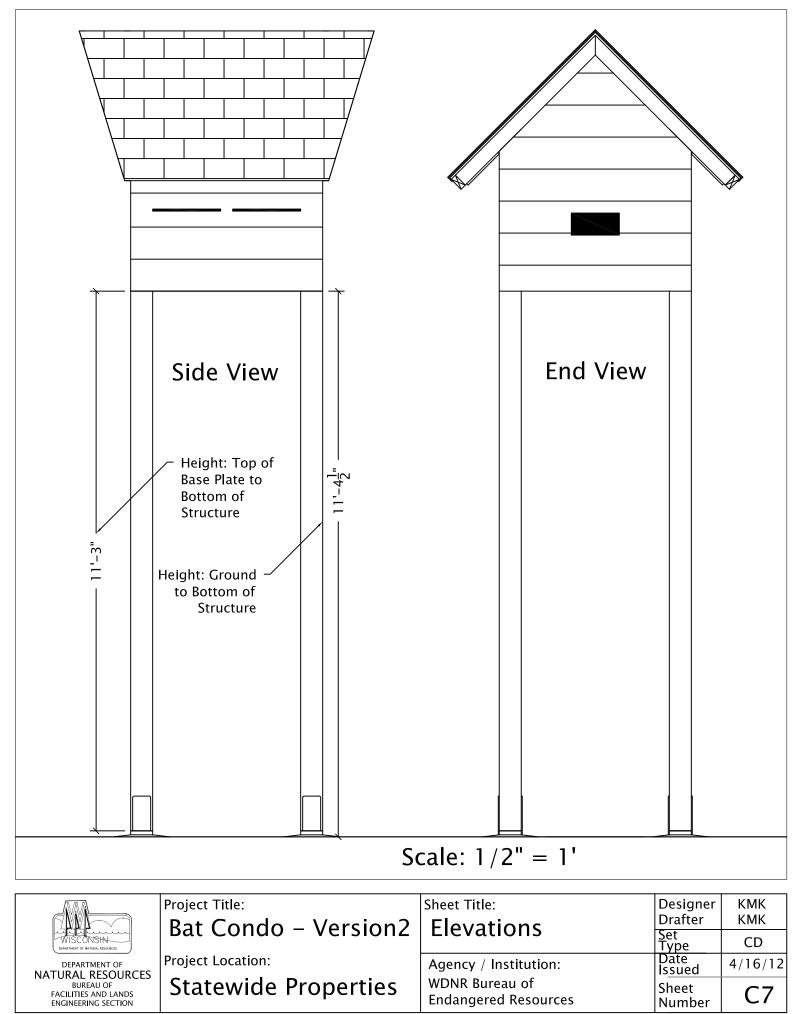
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