# Remington Oaks
# Wild Life Kiosk
# Fenton, Missouri

## Project Description

**My Eagle Project is to build one wildlife kiosk at the Remington Oaks subdivision lake in Fenton, Missouri. I am working with an organization named "Geese Peace". Their website is:** www.**geesepeace**.org **Geese Peace is providing me with the education required that lead's to humane methods of controlling Geese Population at the lake**.

**Both kiosks are intended to educate people on Geese. The subject matters to be outlined are:**

1. **The Canadian Goose Background**

2. **Proper Feeding**

3. **Potential Hazards' to Geese within the lake**
    a. **Listing of what can happen (With pictures)**

4. **Contact information with any questions**

**The kiosks will be 45 inches tall and 45 ¼ inches wide. The backboard, which holds up the sign, will be 26 inches tall and 38 inches wide. The sign will be 3 feet wide and 2feet tall. The kiosk will be constructed at the entrance of the lake.**

## Who will my project benefit?

**My project will benefit the Remington Oaks Community by informing the citizens of the community reasons on why not to feed the geese. The Remington Oaks Lake and community will also benefit by understanding the proper way to control geese population. In addition, the lake and surrounding areas will also see a reduction in geese droppings.**

**On Sunday July 6th, I met with Nancy Schnell; she is the director for an area program called Geese Peace. She said the plan looked good to go.**

**On Sunday July 13th, I contacted Ramon; he is the head board member for Remington Oaks. He said the project looked good. He also said that the board approved to cover the full costs of my eagle project.**

# Wild Life Kiosks Project Details

**The present condition is;**

- **The Lake at Remington Oaks has no signs about the hazards of feeding geese.**

- **The kiosks will have the same information about the dangers of feeding geese (see picture 1). They will also have information about wildlife hotlines to call in case any animal ever gets injured around the lake. Also there will be a mailbox mounted on one of the posts containing a brochure with information about the protection of the geese.**

- **The kiosks will be constructed at the entrance of the lake. (see picture 2).**

- **The project will be funded by Remington Oaks and be built by the members of troop 680. The kiosk will be similar to the kiosk built in Fenton Park (see picture 3). Each member will build each kiosk following my detailed plan (see figure 1).**

- **All the materials, tools, and supplies will be stored in the Biondo household.**

- **The construction teams will work about three days to build and complete the project. I estimate it will take approximately seventy hours to complete the kiosk's.**

**Before the project starts, I will give a safety talk, explaining the dangers of all the tools and the proper way to handle them. I will have access to a first aid kit and a cell phone if an emergency happens.**

**Picture 1**


**Picture 2**


**Picture 3**

**Picture 4**

**Construction Directions:**
***Job Description: Step 1 - Dig post holes***

**Team 1**

**Dig two holes for the posts. The location will be marked by a dig rite crew a few days before the project beginnings.**

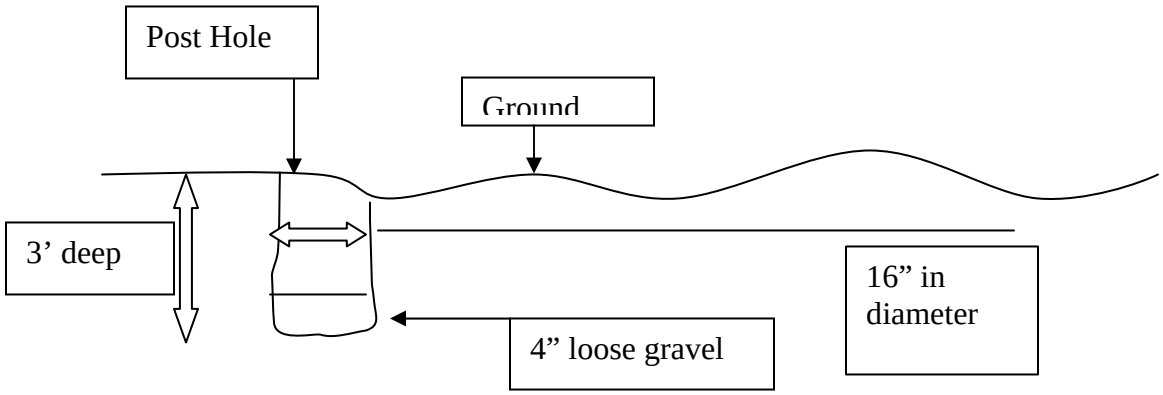
**Volunteers needed:**

**2) Adults (One of the adults will have access to a car and a cell phone if needed for emergencies.)**
**5) Scouts**

**Tools that will be needed:**

**1) 25ft tape measure**
**5) Pair of safety glass**
**5) Pair of work gloves**
**2) Shovels**
**2) Post hole diggers**

**Directions:**
**Dig the two holes at the marked locations. Holes will be 16" in diameter and 3 feet deep. Center to center the holes will be 45" apart. While digging put dirt approximately 3ft from hole to use for cover when project is complete. When holes are three feet deep, fill with 4" of gravel (for drainage).**
**(Visual – See Below)**



**Construction Directions:**
***Job Description: Step 2 - Construct a box frame for the sign & prepare the post for assembly***

**Team 2**

**Volunteers needed:**

**5 - One must be able to use a power saw.**

**Tools Needed:**

- **10" Circular Saw**
- **2 - 25" Tape Measure**
- **2 – Square's (Used to mark straight lines for cutting)**
- **2 - Cordless Drills with 2 fully charged spare batteries**
- **4 pair of work gloves**
- **4 pair of safety glasses**
- **1 Box of decking screws (10 X 3 ½)**
  - **2 Decking screw driver bits**
- **Pair of sawhorses**
- **Grounded electrical outlet**
- **100 ft extension cord**
- **5 carpenter pencils (to mark cut lines)**

***Sign Frame***

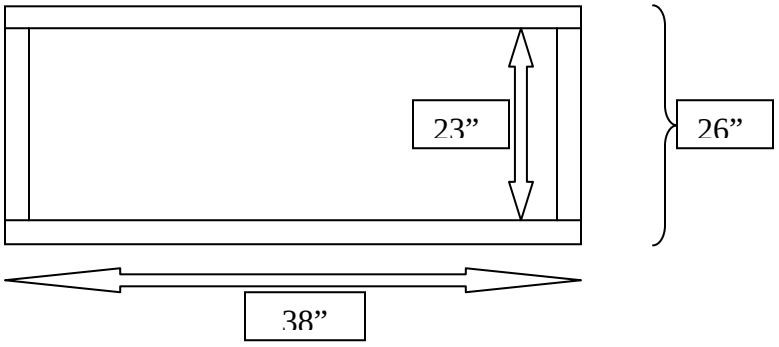
1. **Cut the 2x4x10 into two 38 inch long boards and two 23 inch boards using the circular saw. (This will have to be done by an adult) – Remember to measure twice and cut once!**

2. **Pre Drill 2 pilot holes for the decking screws with a 7/64 drill bit. The holes are drilled ¾" from board end and ½" from board sides. (This process will keep the boards from cracking while drilling in the deck screws)**

3. **Perform a dry run prior to final assembly**
    1. **Lay the 4 boards on a level surface; placing them into final configuration (see graphic below)**
    2. **If the boards create a square / rectangle then proceed to step three.**
    3. **If they don't, correct the problem(s)**
    4. **Repeat step 1 through 3**

4. **Using the cordless drill, drill two 10x3 ½" decking screws into the sides were they meet. (Note: the 23" sides will butt to the inside of the 38" board) This will create a rectangular box, See Visual below**

**Box Frame**



**Construction Directions:**
***Job Description: Step 3 - Post Preparation***

**Volunteers needed: 4**

**Tools Needed:**

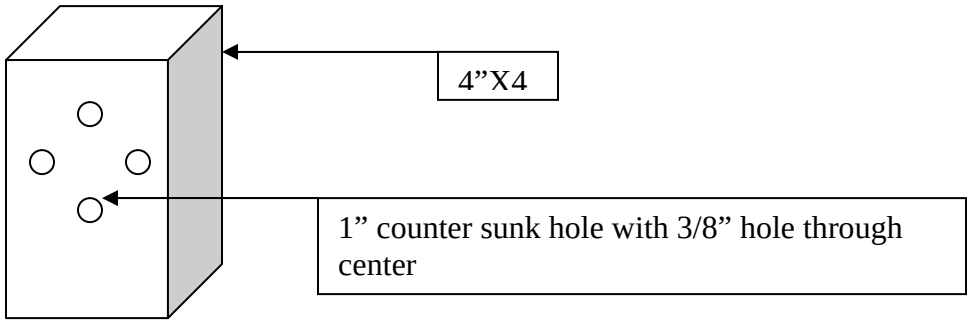
- **2 - 25" Tape Measure**
- **2 - Cordless Drills with 2 fully charged spare batteries**
- **4 pair of work gloves**
- **4 pair of safety glasses**
- **1 1" paddle bit**
- **1 3/8 paddle bit**
- **Pair of sawhorses**
- **Grounded electrical outlet**

**Measure from the top of the post and mark where the 4 3/8 inch (5 "long) galvanized bolts will be placed.**

  - **The first will be centered 9 ½ inches down from the center of the post**
  - **The second will be centered 12 ¾ inches down from the center of the post**
  - **The third will be centered 11 ¼ down and 3/4" from the left side of the post.**
  - **The forth will be centered 11 ¼ down and 3/4 " from the right side of the post**
  - **(See picture)**

- **Using a cordless drill 4 counter sunk holes ½" deep using a 1" paddle bit. Using the 4X4 post based on measurements and markings from the prior step.**

5. **Using a cordless drill, drill the remainder of the holes through the rest of the 4X4 post using a 3/8 " speed bore paddle bit. Place the tip of the 3/8 paddle bit in the center of the previously drilled counter sunk holes board with the 1'' paddle bit. Drill remaining holes through the post.**


4”X4
1” counter sunk hole with 3/8” hole through center

**Construction Directions:**
***Job Description: Step 4 - Construct a backboard for the box frame***

**Team 3**
**Volunteers needed: 5) One must be able to use of power saw.**

**Tools Needed:**

- **10" Circular Saw**
- **2 - 25" Tape Measure**
- **2 – Square's (Used to mark straight lines for cutting)**
- **2 - Cordless Drills with 2 fully charged spare batteries**
- **4 pair of work gloves**
- **4 pair of safety glasses**
- **1 Box of decking screws (10 X 2 ½)**
  - **2 Decking screw driver bits**
- **Pair of sawhorses**
- **Grounded electrical outlet**
- **100 ft extension cord**
- **5 carpenter pencils (to mark cut lines)**

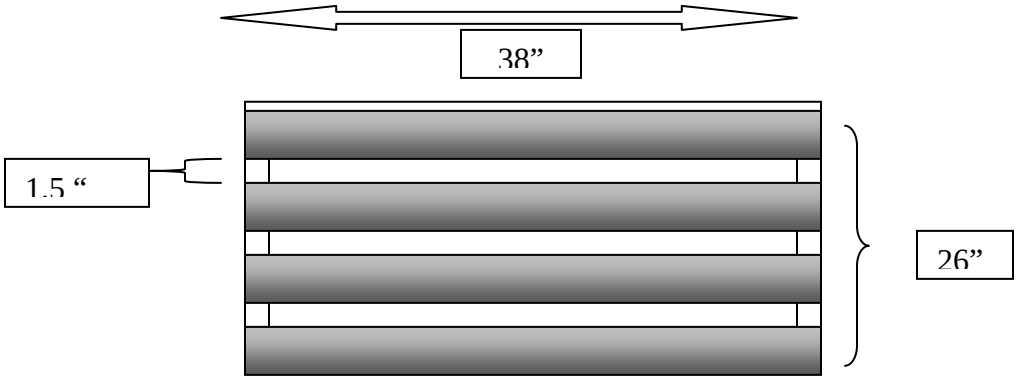
**Directions:**

1. **Cut the 5/4x6x8 cedar board into four pieces of wood that are 38'' long.**
2. **Pre Drill 2 pilot holes for the decking screws with a 7/64 drill bit on each end of each board. The holes are drilled 1" from board top and 1.5" from board ends. (This process will keep the boards from cracking while drilling in the deck screws)**
3. **Perform a dry run prior to final assembly**
4. **Lay the 4 boards on the sign box; placing them into final configuration (see graphic next page)**
5. **If the boards create a square / rectangle then proceed to step three.**
   a. **If they don't, correct the problem(s)**

6. **Repeat steps 1 through 5**

7. **Place each board across the box frame anchoring each end by screwing 2 decking screws at the ends of each board into the 2X4 frame of the box frame. There should be a 1.5” gap between each board. (See Visual Below)**

**(Hint: to create the 1.5 in gap, use a piece of scrap 2/4; the width of a 2/4 is actually 1.5” – This is called a story pole)**



**Construction Directions:**
***Job Description: Step 5 - Assembly and securing of Kiosk to the ground***

**At this point we will have:**

- **4 - 4X4 pre drilled to accept the 3/8" galvanized bolts.**
- **2 - Sign backboard (which is where the actual sign will be attached to.**
- **4 - Holes dug for securing the kiosk to the ground.**

**Assembly Team:**

**Volunteers needed:**
**5 – per kiosk.**

**Tools Needed:**

- **10 Gallon Bucket for mixing concrete.**
- **10 Gallons of water for mixing concrete**
- **Enough gravel to place a 4" layer at the bottom of each hole**
- **8 – 2X4X8 (To hold kiosk in place while concrete dries – Kiosk Bracing)**
- **4 – 2X2X6 (Cut into 12" spikes, will be pounded into the ground for Kiosk bracing to attach too.**
- **2 - Cordless Drill With Fully Charged Spare Batteries**
- **4 pair of work gloves**
- **4 pair of safety glasses**
- **Pair of sawhorses**
- **1 Box of 3" decking screws (used for bracing)**
- **10" Circular Saw**
- **Hand Saw (Backup if Circular Saw fails)**
- **Grounded electrical outlet**
- **100 ft extension cord**
- **50' hose hooked up to a water source.**
- **8 – 3' Wood clamps**
- **2 - Crescent Wrenches**

- **2 – 3/8 ratchet drivers**
- **5lb Sledge Hammer**

**Construction Directions:**
***Job Description: Step 5a - Attach Sign Back Board to Post***

**Assembly Team:**

**Volunteers needed:**
**6 – per kiosk.**

**Tools Needed:**

- **2 - Cordless Drill With Fully Charged Spare Batteries**
- **12 pair of work gloves**
- **6 pair of safety glasses**
- **Pair of sawhorses**
- **50’ hose hooked up to a water source.**
- **8 – 3’ Wood clamps**
- **2 - Crescent Wrenches**
- **2 – 3/8 ratchet drivers**

**Bolt backboard to post**

1. **Stand 4X4 post in pre dug holes ( have one scout on each side holding post upright)**
2. **Have 2 scouts (one on each side of the backboard) align with pre drilled holes on each post with the backboard. Drill through the backboard using the post holes as a guide.**
3. **While holding the backboard in place, have 2 additional scouts (one on each side) slide bolts through the post and sign backboard, attach locking washers and tighten each of the 4 bolts with nuts.**

## Construction Directions:

***Job Description: Step - 6 secure kiosk to the ground.***

**Table 1 Materials**

| **Quantity and Description** | **Price** | **Total** |
|---|---|---|
| 2 boxes of decking screws for 10X3" & 10X2" the sign and backboard construction. | 8.67 | 34.68 |
| 15 bags of 40 quickset concrete | 2.88 | 43.20 |
| 4 4x4x8 cedar boards for the posts | 19.26 | 77.04 |
| 8 2x4x10 boars for the box frame | 8.94 | 71.52 |
| 7 5/4x6x8 boards for the backboard | 9.77 | 68.39 |
| 16 Galvanized washers 3/8. | .12 | 2.40 |
| 16 Galvanized locking washers 3/8. | .24 | 2.40 |
| 16 Galvanized nuts 3/8. | .14 | 1.40 |
| 1 Speed boar drill bit 3x3/8x16 | 7.96 | 7.96 |
| 16 Galvanized bolts 3/8x5 | .98 | 9.80 |
| Total | | 318.79 |

# Tool List

| Item | Quantity |
|---|---|
| 5 gallon bucket | 5 |
| Circular Saw | 1 |
| Cordless Power Drill | 2 |
| Drill Press | 1 |
| Ear plugs | pair of 20 |
| Extension cords | 5 |
| Pencils | 4 |
| Post Digger | 2 |
| Safety Glasses | 8 |
| Saw Horses | 2 |
| Shovel | 2 |
| Table Saw | 1 |
| Tape Measure | 1 |
| Work Gloves | 8 pairs |
| Miter Saw | 1 |

# Safety Equipment on Hand / Safety issues evaluated

| |
|---|
| Address/ Location of nearest hospital |
| Cell Phone |
| Earplugs |
| First Aid Kit |
| Grounded Extension cords |
| Orange Safety cones for walkway |
| Safety Glasses |
| Water/Gatorade supply |

Possible Helpers (scouts)

| | |
|---|---|
| Matt Cooley | 636-205-1275 |
| Dustion Biondo | 636-225-3947 |
| Michael Stachiw | 636-255-4974 |
| Jimmy Yahl | 636-225-3559 |
| Joe Yahl | 636-225-3559 |
| Joe Kuczeka | 636-677-1058 |
| Nick Scarfino | 636-391-1927 |
| Ty Diersen | 636-861-3858 |
| Sam Kemp | 636-343-0393 |
| Aaron Dains | 636-225-7738 |
| Sam Green | 636-391-4194 |
| Craig Dains | 636-225-7738 |
| Patrick Seibert | 636-225-4768 |
| Kyle Lehhmann | 636-225-0760 |
| Justin Efken | 636-861-0346 |
| Brendan McClew | 636-225-1441 |

Possible Helper (Leaders)

| | |
|---|---|
| Dr. Mike Stachiw | 636-225-4974 |
| Mr. Dino Biondo | 636-225-3947 |
| Mr. Ted Yahl | 636-225-3559 |
| Mr. Joel Efken | 636-861-0346 |
| Mrs. Cyndi McClew | 636-225-1441 |

## Project Workplace and Timeline

Currently there are no kiosks at Remington Oaks Terrace. We will build two kiosks, one at each end of the lake. Each kiosk will educate people on the proper care of geese especially why not to feed them.

### Project Planning ( Man hours 2):

1. Discuss sign material for each kiosk; e.g., how and why the material used is correct for this project.
2. Estimate cost for both signs.

**Plaques Desgin and Printing production (man hours 10):**

1. Meet with printers to determine sign material specification and computer file requirements.
2. Develop educational content
3. Design plaque layout
4. Print test
5. Review test output
6. Finalize print file
7. Execute printing
8. Laminate image to steel backing
9. Laminate ultra-violet coating to plaque
10. Sign off on final finished plaque

**Pre-Work Day (1) Setup (Man Hours 6):**

1. Obtain all supplies from hardware store.
2. Setup all the saws and drills for an effective and safe layout.
3. Buy and cool drinks to hydrate the workers from a grocery store.
4. Make 20 copies of the project plans, (one copy for each worker)
5. Pre-mark all wood to cut with saw the morning of the first day of the project.

**Day 1: Cut all boards for each kiosk ( Man Hours 24)**

Team 1- Cut all boards for the first kiosk, then sand to smooth out the edges.
4 scouts- 1 cutter, 1 stacker, 2 sanders
Team 2- Cut all boards for the second kiosk, then sand to smooth out the edges.
4 scouts- 1 cutter, 1 stacker, 2 sanders

1. Discuss and explain each team's job- answer all questions.
2. Select piece to cut
3. Power up, saws
4. Cut posts
5. Sand both posts
6. Cut sign frame
7. Stack finished boards in the stacking area
8. Repeat steps above for the frame pieces and for the display board.

**Day 2: Assemble and Install 2 Kiosk Man Hours 25.**

Team 1; 5 scouts
First kiosk will be installed near the clubhouse parking lot.
Second Kiosk will be installed at the other end of the lake.

1. Discuss team assignments per plans and answer all questions.
2. Sort and check each piece for accuracy.
3. Assemble kiosk according to plans.
4. Place kiosk in holes
5. Fill holes with concrete
6. Level and brace up kiosk while concrete dries
7. Haul dirt away in 5gal. buckets
8. Cleanup up worksite.

**Installation closeout Man Hours 5.**

1. Assemble teams at kiosk number one for food and drink.
2. Thanks to all the participants who helped in the project.
3. Answer any questions that might arise.

**Day 3: Project Closeout Man Hours 3.**

1. Check the area of each kiosk
2. Make sure concrete has dried
3. Remove all supporting braces
4. Discuss project with Remington Oaks sponsor(s)
5. Write up the final documentation, to include any additional work the sponsor would like done now and in the future.

**Total Man Hours: 108**

**Total Hours Jamie spent on project:**

| | |
|---|---|
| Contacted Remington Oaks on project | 30min |
| Meet Geese Peace for project | 2 hours |
| Contacted Remington Oaks to approve project | 30 min |
| Went to store and priced material | 2 hours |
| Worked on paper | 20Hours |

**Total Hours to date: 26 hrs.**

Estimated Jamie hours during project. 30 Hrs.

# Appendix I Acceptance Signoff

## Overall Project Acceptance

Signed _____
Date _____

## Signage Acceptance

Signed _____
Date_____

Appendix II Signage

# Help control Remington Oaks Geese population!

## History

Giant Canada geese are native to Missouri. Lewis and Clark noted in their jounals that their were large amounts of them west of St. Louis. For the most part people lived in harmony with the geese until the 1950's. During the 1950's the geese population in Missouri nearly went extinct, due to no hunting regulations. In 1959 the Missouri Department of Conservation began a restoration project that put rules on hunting geese and eventually brought back the Missouri geese population.

## The problem

- Geese are moving to urban areas for many reasons such as food
- Geese like to eat grass around lakes that have been fresly cut.
- **Geese are often fed by people!!!!!!!**
- Geese need a water body to survive
- The destruction of most forests has taken away many predators of geese such as foxes, and coyotes.
- **If people feed geese, more geese will start to appear because that means they wont have to hunt for food**.
- Protective Geese will defend their nests and may chase people away from them.
- Goose feces on the sidewalks and around the lakes.
- The feces could contaminate the water making it unusable.

**(In essence our lake is a magnet for Geese!)**

## The Solution

- **Do not feed the geese you will see and reduction of:**
  - Geese feces
  - Reduction of Geese getting harmed by human food
  - Reduced number of Geese flocking toward Remington Oaks Lake and surrounding areas
  - Cleaner Water in the lake.

If you see any geese injured or experienecing a problem with feeding; please contact Geesepeace or Animal Control.

Geesepeace: 314-567-2081
St. Louis County Animal Control: 314-726-6655

**Eagle Scout Project: Jamie Biondo Nov. 2008**