

# Construction Committee

April 27, 2016

## Hoosick Falls Kiwanis Project *Hoosick Falls, NY*

### Receiving Equipment & Materials

This will be the first job of the Construction Committee. A forklift is handy to unload, but 4 to 6 people can unload the truck by hand in an hour. Detailed information on receiving the equipment is included at the back of this document. There is no need to open any of the packages. Simply make sure that you received the total number of crates, skids and pieces listed on the yellow sticker and check for any noticeable damage. Note shortages or damage on the driver's copy of the bill of lading, take a picture of any damage and give us a call. We'll take it from there.



Bulk materials, such as stone, wood fiber and concrete bags should be delivered one or two days before the build event.

Parkitects will provide a Staging Plan showing roughly where all the different materials can be placed as well as a location for the volunteer tent and snack table.

*Important* – If your project has a GFRC/Concrete Component, you must have an all-terrain Lull on site to off-load the component and place it into the playground on Saturday. **Contact Parkitects for actual weights of components that may require a Lull.**

**Contact Parkitects for the estimated ship date of the equipment. The driver will call 24 hours prior to scheduled delivery.**

### Site Preparation

Excavate area as laid out in attached perimeter layout plan. Points are triangulated from control points, noted A, B, C, X, Y, Z, etc.

### Call U.F.P.O.

You must call the Underground Facilities Protective Organization at least 10 days before installation. They will mark all utilities in and around the playground site. Their number is: 1-800-962-7962.

### Security

Once your equipment is brought to the site and while it is being installed, you may need to have security. This may simply be the local police driving by the site more often or it could mean someone camping out on the site. Getting enough construction fencing to surround the site is a good idea. You know your community best. Plan accordingly.

# Construction Committee

## Equipment

QTY

- 1 **Hole Drilling Equipment** – Our first choice for equipment to drill the post holes is a mini-excavator with an auger attachment. This machine is able to drill several holes from a single position and is able to pile the spoil away from the holes. The auger can be quickly replaced with a bucket should rocks, rubble or loose sand make drilling difficult. Our second choice is a backhoe with an auger attachment. Its larger size can make it harder to move through the site, but it works very well. Our third choice is a Bobcat with an auger attachment. In all cases, the auger should be 16-18 inch diameter. Never use a 3-point hitch auger or hand-held auger – they simply do not work!



- 2 **Material Moving Equipment** – Equipment will be needed to move the stone and wood fiber from the stockpile area to the playground site. If you use a backhoe or Bobcat to drill the holes, these also have front buckets. It's typically best to have one large loader like a full-size backhoe or front-end loader, and one small piece like a Bobcat or small tractor. If pallet forks are available for any of your pieces of equipment, please have them on site. Forks are very handy for moving pallets of equipment and concrete.
- 1 **Tools Van** – A secure place to store tools and materials is essential. A 20' rental truck works great! A nearby building also works well.

## Special Tools and Services

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- Water Service** – Be sure there is enough hose to reach the play area. A nozzle on the hose is a must.
- Electric Service** - Needed to run drills, lights, etc. Be sure this is a reliable source and have access to the panel. The power must be GFCI. Avoid generators if possible, they are not reliable enough.
- Rest Rooms** - Obtain access to a nearby building or get several port-a-johns donated.
- 1 **Builder's Transit** – This is needed to set grades for support posts. Must be accurate and on site at the very beginning of the installation.
- Awnings, Tents and Tables** – The Volunteer committee may need an awning. Food service may need a tent and tables with chairs. A small parts table is also required.

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## Basic Tools

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### QTY

- Battery Operated Impact Drivers** - Many people have these now and they are very handy. Let the volunteers know to bring them if they can.
- Ratchet Straps/Rope** - 1" or 2" wide by a minimum of 10' long.
- 3 **Carpenters Levels** – 2', 3' and 4' are all helpful. A 12" bullet level is also helpful. 2' & bullet levels with magnets are very nice as they stick to steel support posts.
- 1 **Sawzall** – With both metal and wood cutting blades.
- 2 **Ladders** - Step and extension are both useful. 10' and taller are the best.
- 4 **Lights** - Portable work lights for possible late night work.
- 6 **Ratchet Sets** – 3/8" drive, should include wrench, sockets and extension.
- 4 **Wrench Sets** - Open-end type needed. 1/2", 9/16" and 5/8" are the most useful.
- 2 **Allen Wrench Sets** - 3/16" are the most used.
- 4 **Tape Measures** – 15' to 25' steel tapes.
- 1 ea. **Hammers** - 3# for stakeout, 10# for perimeter stakes.
- 2 **Rubber Mallets** - For gentle persuasion.
- Extension Cords** - Enough to power 2 different tools on site at one time.
- Tarps or Plastic** – Needed for emergency rain cover. Get the largest sizes you can.
- 2 **Tin Snips** - To cut binding on pallets.
- 6 **Utility Knives** - Needed to open hardware packets and cut filter fabric.
- 3-4 **Steel Digging Bars** - For the occasional rock found in up-state soils.
- 8 **Round Nosed Shovels** - For post holes and surfacing installation.

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## Basic Tools Continued

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- 8     **Metal Garden Rakes** - For site clean-up and surfacing.
- 3     **Posthole Diggers** – Used to clean-out holes drilled by the auger.
- 2     **Brooms** - For clean-up.
- 6     **Wheelbarrows** – Used for moving concrete, stone and surfacing. You can't have too many of these.
- 5     **Hand Tamps** - For compacting the bottom of the post holes.
- 8 - 16   **T- Posts** – (2) needed for each Evos/Weevos Arch.

## Supplies

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- 2     **Drill Bits** - 1/4" heavy duty for drilling through metal.
- 1     **Drill Bits** – 3/8" heavy duty for drilling through metal.
- 50    **Wood Stakes** – Used during stakeout. The 8 to 12" tall work the best.
- 1 roll   **String** - For stakeout.
- 1 roll   **Tape** - Both masking and duct tapes are needed.
- 1 doz.   **Pencils and Markers**
- 1 doz.   **Replacement Blades** – for the utility knives.

## Safety Supplies

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- 4     **Goggles** – To protect people mixing concrete.
- 1 doz.   **Dust Masks** – some people may want these while working with concrete or spreading wood fiber.
- 1 roll   **Caution Flagging** - To keep people off of and out of dangerous places.
- 1     **Fire Extinguisher** - ABC type.
- 1     **First Aid Kit** - Commercial type

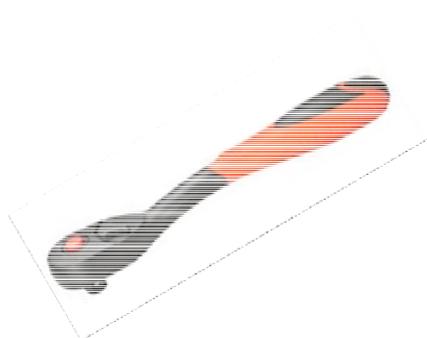
# Construction Committee

## Volunteer Tools

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Be sure that the volunteer committee knows that each volunteer **must** be asked to bring a

## Ratchet, Rake, and Shovel.



3/8" Ratchet Wrench



Metal Garden Rake



Round Nosed Shovel

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## DONATED MATERIALS LIST

**IN ADDITION** to the items to be purchased from Parkitects and the items on the Tools & Equipment list to be borrowed, the following items must be found locally (donated if possible).

### Concrete - Bags

Bags are preferred over a cement truck for equipment support posts for two reasons. First, we don't know whether the concrete will be needed at 10:00AM or 2:00PM. With bags there is never a scheduling problem. Second, each post requires three bags of concrete, no more, no less. With truck mix, the volunteers tend to overfill the holes and we run out of concrete.

312 EA      **80# Bags Concrete** –  
3,000 psi Ready-to-Use Mix



**OR**

### Concrete – Truck Mix

For play pieces that require large footings, such as the Aeronet, truck mix concrete is preferred. Please order 3,500 psi mix and see the Volunteer schedule for specific delivery date and time.

8 CY      3,500 psi Truck-Mix Concrete



### Misc. Items

65 Tons      **No. 1 Crushed Stone** - Needed for the drainage layer under the WoodCarpet.

15 EA      **Brick Pavers** – 8” x 16” x 2” pavers (used in footer holes to level/raise)

