

CCD 2012 Signature Project

Deck and Backyard

Design / Construction Project

This year, participating schools/organizations are invited to prepare a *Signature Project* to be displayed at Construction Career Days prior to attending the event. The project will entail the planning and design of a residential backyard along with the planning, design, and construction of a residential 20' x 26' deck. The components and specifications of this project are outlined below.

Backyard Design - The size and scale of the backyard is determined by the participating school but must contain the required elements.

There will be two components

1st - Planning

Detailed plans/drawings that include elements of the backyard.

Elements: Minimum requirements of elements but not limited to:

- A play area for toddlers to occupy their time while playing in their yard.
- A fire pit for an adult gathering area.
- Environment and safety regulations addressed (research required)

2nd - Finished product

A scale model of the backyard layout is required with backyard elements and 20' x 26' deck detailed on a maximum size 3' x 3' display board.

20' x 26' Residential Deck Project - A constructed 20' x 26' deck (constructed 4 feet above ground level – Raised Ranch style home) to include an area on the deck to place a 500 gallon 8'x8' hot tub. The 26' section of the deck will be attached to the back of a home with a 7' slider leading from the house to the deck. The slider is 18 feet from the end of the house.

The size and scale of the residential deck is determined by the participating school but must include the designed backyard with the other required elements to be displayed on the maximum display board of 3' X 3'.

There will be three components:

1st - Planning

Detailed plans/drawings that include:

- Design drawings and specifications that include any relevant measurements (rise angles, lengths, widths, load bearings, entrance landing sizes, etc.), adhering to local, state and federal codes.
- Materials
- Proposed cost
- Proposed timeline for completion

2nd - Construction

Detailed renderings that include:

- Written and illustrated step by step process for construction
- Detailed list of equipment needed and how each is used
- Detailed list of materials used and quantities
- Final cost

3rd – Finished Product

A scale model of the residential deck and backyard elements as detailed above (this can be done with a variety of materials such as Popsicle sticks, tongue depressors, balsa wood, – anything you feel will best express your project). The entire project display cannot exceed a 3' X 3' display board.

DISPLAY

The deck and backyard design can be displayed on a maximum 3 feet by 3 feet surface. No larger displays will be accepted.

If at all feasible, we are asking participating schools to drop off their displays prior to the event so that they may be exhibited for both days of the event; however, this is not a requirement.

JUDGING

Project and displays will be exhibited and judged at the Construction / Engineering Career Days, May 2nd and 3rd in Hopkinton. Two students will be identified to serve as the spokespersons of the display during the judging. A combination residential deck and backyard design component rubric will be used to determine the outcome of the judging.

Up to 30 bonus points will be given for additional elements and detailed aesthetic additions to the model such as landscaping or any other nature features that enhance your residential backyard /deck project.

Failure to comply with the “Intent to Participate” submission date (Friday, March 16th at 5:00 PM) will result in a 10 point penalty.

Intention to Participate

Please email William Rawlinson at William.Rawlinson@bostonpic.org by **Friday, March 16, 2012, by 5:00 PM** if your school/organization intends to submit a CCD Signature Project entry as part of the CCD school competition or if you have any questions regarding the specifications of this project.