

**Construction Specifications for Project 080155**  
**EFMP Handicap Playground Equipment**

The contractor shall provide all labor, materials and equipment necessary to accomplish the work in accordance with the specifications and drawings.

Fiber Reinforced Plastic Posts – all vertical support posts shall be 4" x 4", 1/4" wall thickness. Pultruded Fiberglass Reinforced Posts with no less than 50% glass content. Posts will be coated with minimum 5H-hardness durathane finish. The tensile strength shall equal or exceed 30,000 PSI longitudinal and 7,000-PSI transverse. Post caps shall be plastic. Lifetime warranty on posts.

Material for decks, bridges, vertical pickets, guardrails and climbers – shall be a composite mix of recycled plastic and recycled wood fibers (approximately 50 % post production recycled wood fibers and 50% post consumer recycled plastic). Edges shall have a minimum 1/4" radius. Decks must be attached to posts using a cast aluminum bracket, minimum .1875" thick. Bracket must be powdercoated. 15 year warranty on alternative decking material.

Tamper resistant, pin style button head bolts shall be 3/8" and shall be zinc dichromate plated. Connectors other than carriage bolts shall be 5/16" tamper resistant RSS lag screws, zinc dichromate plated.

Hardware for pickets, horizontal safety rails, stringers and play options shall be 5/15" tamper resistant RSS lag screws, zinc dichromate plated. Screws for attaching deck boards shall be #8 grabber screws with 3-layer coating consisting of metallic zinc base layer, anti-corrosive chemical layer and top layer of baked-on ceramic.

Handgrips shall be 1" diameter, minimum 12" long for stabilizing children in transferring from play option to deck and/or when entering any flat bed slide (unless fitted with "sit down" panel with built-in handgrips) and shall be zinc dichromate plated after fabrication and shall be dry polyester powdercoated to not less than 375 degrees. Handgrips may also be factory-cut from unitary 3/4" polyethylene with UV stabilizers molded into the plastic.

All panel panels shall be cut from 3/4" thick plastic and shall be minimum 26" x 40" outside dimensions and shall be attached to FRP posts with plastic caps.

Welded galvanized steel components shall have 1.315" OD handgripping elements and vertical infill on rails and barriers. Overhead devices shall be minimum 2 3/8" galvanized steel. All welded steel components shall have cold galvanized welds and shall be powdercoated after fabrication at 375 degrees F.

Slide and crawl tube material shall be 30" inside diameter, 3/8" minimum wall-thickness and shall be rotationally molded polyethylene plastic with molded in color and ultra-violet inhibitors.

Slides shall have a minimum 4" sidewall and shall be double wall low density polyethylene plastic with molded in color and UV stabilizers. Slides shall be fitted with one-piece entry panel of 3/4" thick polyethylene plastic and shall have built-in handgripping components.

Spiral slide shall be of a design that meets current C.P.S.C. standards and which discourages climbing, spinning or perching on the mechanism and which forces children to enter the slide in a seated position. Spiral slide to have full barrier rails attached to the hood.

Swing hangers shall be heavy duty, commercial variety of forged aluminum with a self-oiling bronze brushing. S-hooks shall be a minimum of 5/16" diameter. (all S-hooks must be closed to within .04" upon installation)

Swing beams shall be minimum 2 3/8" or 3.5 OD galvanized steel. Support legs to be 2 3/8" galvanized steel or FRP.

Clatterbridge chain shall be 3/8" proof coil, with 1 1/2" schedule 40 plastic spacers and shall be hung with drop forged aluminum hangers fitted with a bronze bushing.

Protective barriers must not have horizontal components creating climbable barriers.

Equipment shall conform to the CPSC Handbook for Public Safety (1997).

### **Warranty Information**

Contractor warrants its equipment to be free from defects in materials and workmanship under normal use and service for the periods below:

Lifetime warranty on Fiberglass Reinforced Plastic (FRP) posts.

15 year warranty on decking and PVC coated metal decking.

10-year warranty on extruded plastic components and rotationally molded slides and roofs.

2-year warranty on all other parts.  
(except tarp materials, which carry a one-year warranty).