## free-mostandards

Ends shall be 1X6 birch or equivalent to provide Cclamping to adjacent modules. Ends are to be 24 inches wide. Roadbed to be 1/4 cork or equivalent on 1/2 inch plywood or equivalent, braced to prevent sag or flexing. The module (set) shall have at least four legs and stand alone. Nominal and Minimum height of railhead from the floor is 50 inches. Maximum height of railhead from the floor is 50 inches. Maximum height of rail is to be 62 inches. On modules with grades, the elevation of the high end shall be some multiple of 3/4 inch above low end. Legs shall have adjustment of plus or minus 1 inch. The bottoms of the legs shall have rubber tip or equivalent floor protection. Mainline maximum grade is 2.0 percent (1/4 inch per foot) with the track level for 6 inches from each end. Vertical curves shall be appropriate for mainline operation of contemporary long cars. Modules may be used with spectators on either side.

## Track

Track shall be code-83 nickel-silver flex or handlaid. Minimum radius is 42 inches with at least12 inches of straight track between reverse curves. Mainline turnouts shall be at least #6. At the ends of the module the track shall be centered on the 24 inch width, perpendicular to the end, also straight and level for 6 inches from each end of the module. Rail shall be cut off 1 inch away from module end; ties and ballast shall be continued to the module end for good appearance and matching with the adjacent module. Free-mo end plates are recommended for ends.

## Wiring

Turnouts shall not rely on points to power frog.

Wire shall be #18 or larger stranded. Feeder wire can be of 24 gauge or heavier. There shall be a 4 (or more) position barrier strip at each end under the module for wire hook-up.

Wiring consists of 4 separate bus wires and 6 conductor DCC Digitrax Loconet bus. All ends have a pair of male and female 2 pin jones plug (Part Number P-302-CCT and S-302-CCT) for the mainline, a single 2 pin trailer plug Radio Shack(PN 270-026) for the accessory power, and a surface mount 6 conductor RJ12 box mounted to inside of module 1X6 end.

Mainline wiring is as follows for jones plugs (must be facing module end for correct perspective):

Male pin 2 right rail, male pin 1 left rail. Female pin 2 left

