## Design in Transit

PUBLIC TRANSPORTATION NEVER LOOKED SO GOOD

By Camille LeFevre, with an introduction by Christopher Hudson

It's one of Minnesota's feel-good stories of 2004; the once-embattled Hiawatha Light Rail Transit (LRT) line, the area's first non-bus metro transit since streetcars last traversed Minneapolis in the 1950s, opened in June to great fanfare and a larger-than-anticipated ridership, and the route extended from 12 to 17 stations in December. Why all the hoopla? Sleek, quiet, and environmentally friendly (i.e.

electric) vehicles are one reason, and eye-catching, individually designed stations are another. The latter concept is the brainchild of Steve Durrant, director of Planning and Urban Design at URS Corporation, the firm commissioned by the Minnesota Department of Transportation to manage the Hiawatha project. Initial plans called for three station designs: one for downtown stops, another for city neighborhood stations, and a third for suburban locations. Durrant, however, saw an opportunity to create a string of civic landmarks while increasing community participation in the project. In short, he enlisted five Minneapolis architecture firms-Barbour LaDouceur, Cuningham Group, ESG Architects, Julie Snow Architects, and Meyer, Scherer & Rockcastle-to collaborate with local artists and neighborhood residents on the design of distinctive architectural statements for

each locale. The idea found favor with the State Designer Selection Board. Of course, not all went according to the original plan. The Warehouse District station was added to the north end of the route, the Nicollet Mall station was redesigned, and the City of Minneapolis hired HGA to design a combination parking garage/LRT stop to replace the original design for the Downtown East station, to name a few major changes. In addition, the project's design-build construction approach, in which the architects handed over their conceptual designs and partially

completed construction documents to the design-build contractor, resulted in a number of design tweaks along the way. Overall, however, the original designs remained largely intact. In the following pages, Camille LeFevre highlights one station by each of the original five firms



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Hiawatha LRT

pening: Partial service between Fort Snelling and Minneapolis Warehouse District began June 26, 2004; full service to the

airport and Mall of America began December 4, 2004. Ridership projection: 9,500 per day in 2004: 19.300 per day in

2005; 24,800 per day by 2020. Length: 12 miles, connecting four of the Twin Cities' most popular destinationsdowntown Minneapolis, the Metrodome, Minneapolis/St. Paul International Airport, and the Mall of America

n Bloomington.

oht rail vehicles: 24-26 cars. och 94 feet long and articulated with 66 seats. Each car can carry 187 passengers at Ill capacity. Equipped with

nnane racks and bicycle orage hangers. Power: Flectrically powered by

wires 16 feet overhead. op speed: 55 mph, with a

general service speed of 40 mph

and slower speed downtown. cressibility: Fully ADAampliant stations and transit

with four wheelchair locations per vehicle. Level boarding at each train door, Ramps and tactile edges at all stations.

Elevators at stations on bridges. onstruction approach: Design-

Cost: \$715.3 million build with separate contracts

for light rail vehicles and airport Corridor development potential to year 2020: 7,150 new

housing units, more than 19 million square feet of new commercial development, and

more than 67,000 new jobs. JANUARY - FEBRUARY 2005 41

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rtwork abounds at the 50th Street through each station, so we wanted a visual restation, designed by Meyer, Scher-lationship among them," The 38th Street stop er & Rockcastle, Minneapolis, lo- (see photo on page 40) is a single-platform stacal artist Karen Wirth, and others. tion designed with soffit and cave details, lay thed at the edge of Minnehaha Park, the ers of roofing over entrances, and a horizontal ation reflects the bucolic neighborhood set- "porch" to reflect the Craftsman bungalows so

ting, and its natural and cultural history, well known in this neighborhood. through a silver-metal "hedge" in which a The platform at the 46th Street station is fretwork of picket fences, leaves and branches, split, as the station is sited at a crossroads beand wagon-wheel shapes overlap (by artist tween St. Paul and Minneapolis where grain Deborah Mersky); in words from Native was once transported between mills and mar-American stories clustered together in the kets. Echoing the roofs of neighborhood housshapes of tree trunks on the shelters' glass es and the simple roofs of a farmers' market, panels (Joann Verberg); in the finely detailed, the transit shelters are structured to double as

etched metal plates-embedded in the brick weekend market stalls walkways-that depict such local fauna as The platform at the 50th Street station is American toads, pumpkin sunfish, and crows split and the sections placed kitty-corner to (Greg LeFevre); and in the structure of the stahave a presence from various vantage points, A row of steel columns, placed in slightly so what you see from the road or the train or

staggered positions rather than in a straight platform provides different levels of reading line, gradually branch into tree-like supports and experience," Wirth says. for the glass (or "tree") canopy, until the struc- Meetings with neighborhood constituencies ture itself leaves off and a row of real trees provided input and insight in the form of histakes over. "This approach alludes to a trans- toric documents, original photography, and

formation from city to nature," explains Garth written materials, which "informed our early Rockcastle, FAIA, principal, "as it moves from thoughts about how to use text at the station." architecture to landscape architecture," Rockcastle says. For her part, Wirth says she MS&R also designed the two stations before approached all of these stations as if they were (or after, depending on the direction of travel) site-specific sculpture, so each station would re-50th Street. "We were the only team that had flect not only what the neighborhood asked three consecutive stations," Wirth explains, for, but convey a history, a mood, and a feeling "and we approached the project as if the three about the people who have lived here in the

were a unit. Travelers move sequentially past and now live here." 4

50th Street Station

MEYER, SCHERER & ROCKCASTLE





## Warehouse District Station

ELNESS SWENSON GRAHAM ARCHITECTS



During community meetings, recalls Tracey house side there are dark-green light columns Jacques, AIA, senior designer, ESG, "representa- with traditional-feeling light fixtures on top." tives from the Warehouse District felt strongly 
As the station moves east toward Hennepin, that the station should be transparent and not the brick is left behind for steel columns. The have a lot of presence." In addition, Charlie design was to be complemented by up-lighting Nelson, who oversees historicism in architec- of the steel roof canopy, a screen of animated ture and design for the Minnesota Historical So- horizontal lighting elements, and a dramatic ciety, told the design team "to interpret, not artist-designed 85-foot light tower announcing

look," according to Jacques. Conversely, representatives from the area's ized. Nor have the lighting elements of the other constituency, Hennepin Avenue and the Nicollet Mall station (see photo on page 40) theater district, "wanted the station to boldly also designed by ESG with Minneapolis artist announce itself," Jacques says. So Wirth went Tom Rose, been installed: back-lit art panels beout into the communities to "find common neath the undulating roof canopy, and colorful ground," Jacques explains. "She did these great super-graphics on the rooftops. photographic surveys of structures and patterns Still, as riders' final destination at the north in the neighborhoods. From those surveys, we end of the Hiawatha line, the Warehouse Disdrew inspiration for the platform and the form trict station "tells a story about the two neighof the station. So the station responds to the borhoods or business environments the stadiffering conditions from the two constituen- tion is a part of," Jacques says, "conveying the

one end of the platform to the other." their influences."❖

wo different downtown communi- The 1st Avenue end of the station, which ties-one of historic industry, the oth- faces the historic Warehouse District, features er of modern commerce with a grow- traditional paving materials, and brick knee ing theater district-meet at the Ware- walls with a criss-cross pattern framing small. house District station. Accordingly, in design- black-and-white photos-printed onto ceramic ing the station, Elness Swenson Graham Architiles-of people and scenes that reflect the tects. Minneapolis. collaborating with Min- area's history. "History is built into the knee neapolis artist Karen Wirth, was charged with walls," Jacques says. Another signature element naking an architectural statement that strad- on this end of the station is an "abstracted dles, and embraces, the two neighborhoods, street light," he explains, "so from the ware-

replicate, the Warehouse District's historical the station location at the Hennepin end. These lighting aspects have not yet been real-

cles with a design that transitions subtly from energy and life of those areas while bridging