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A Spiritual Bastion for a Secular Age Will Rafael Moneo's Cathedral for Los Angeles Endure?



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PLUS Special Section: LIGHTING

Mack Scogin Merrill Elam mediates deftly between the man-made and the natural in its Herman Miller CHEROKEE OPERATIONS

By Christine Kreyling

n Cherokee County, Georgia, north of Atlanta, the Appalachian Mountains relax into hills that roll with vigorous contours reminiscent of a Thomas Hart Benton painting. From certain vantage points, the hills read as a series of layered planes receding into the horizon. A similar language of layering emerges in the Herman Miller Cherokee Operations plant by the Atlanta firm of Mack Scogin Merrill-Elam Architects.

At the outset, furniture manufacturer Herman Miller presented a straightforward program-to merge, under one roof, the operations of its three separate Georgia facilities for office-system production and distribution. One of those facilities, located in Roswell, had been designed nearly 20 years earlier by Mack Scogin, AIA, and Merrill Elam, AIA, then working in the offices of Heery & Heery [RECORD, January 1983, page 122]. But subsequent changes in property values and land use, coupled

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Project: Herman Miller Cherokee Operations plant, Canton, Georgia Architect: Mack Scogin Merrill Elam Architects-Mack Scogin, AIA, principal in charge; Lloyd Bray, AIA, and

Merrill Elam, AIA, collaborating principals; Tim Harrison, project architect Landscape architect: Michael Van Valkenburgh Associates-Matthew Urbanski, principal

Set amid the rolling hills of north Georgia, the plant is clad in standard tilt-up concrete panels-but with surprisingly subtle and poetic results (this spread and opposite, inset).





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A forest of telephone poles, some holding lighting, punctuates the parking lot (this page and opposite), mediating between the building and surrounding hills. Wildflowers bloom in the meadows (right). Ivy will eventually cover the inside of the concrete screening walls (below), "greening" close-range views from within the glazed office areas.







with the inefficiencies and costs of decentralization, prompted the company to consolidate. The new plant, as Herman Miller engineers calculated, called for a 330,000-square-foot space all on one level.

Instead, architecture and landscape speak a complementary The solution required the precision of smoothly meshing gears. idiom of simple materials shaped into severe, consciously manipulated In transforming a manufacturing flow diagram into architecture, the forms. A major goal was to distinguish human from machine space. "This designers had to efficiently and economically shelter the path leading is a big place," Elam explains. "You have to be selective about making from raw materials, through fabrication and assembly, to trucks poised 'moments,' surprises-detailed human encounters with site and building." for product delivery to the world. Large parking aprons would accom-The final results reveal appropriately huge, boxlike sheds for fabrication and assembly. Adjacent, but slightly staggered in plan, they have tilt-up concrete walls with corrugated metal ceilings and a steel truss system overhead. Perimeter skylights articulate the shed walls and provide

modate truck containers-an inexpensive means of inventory storage. Minimal showroom and office space were needed. And a lean budget of \$17.9 million set a cap of \$55 per square foot. For such a large footprint, rolling terrain is not the obvious balanced illumination for the truck-loading docks that flank the assembly choice. In fact, Herman Miller selected a site in Cherokee County only after zone. Within the great scale of the manufacturing processes, glazed doors receiving inducements, such as local tax abatements, job-training assistance, signify access for people. Similarly, a transparent layer of offices-forming and infrastructural improvements. In Canton, the county seat, the company a thin, L-shaped zone along the assembly and fabrication sheds-defines found a reasonably flat site: 70 acres of open pasture that required some with storefront glazing the project's most intimately scaled spaces. Twelvegrading but no removal of dirt or trees. foot-high picture windows open up views between offices and

The massing and site plan-with landscape design by Matthew manufacturing. At the front of the building, large, thin tilt-up concrete Urbanski of Michael Van Valkenburgh Associates-open the building's slabs form two parallel screening layers, connected to the building core by sight lines to the rear, away from the road and toward the property's southsteel joists. Penetrating these layers, the entry route is democratic, welwest edges, licked by the Etowah River and its tributaries. "The idea was to coming the arrival of both white- and blue-collar workers, as well as retain the feel of the original promontory, to take advantage of the views of visitors, through a central door.

hills and river," explains Elam. The forms and style, however, are decidedly not suburban picturesque. As she puts it, "We chose not to domesticate."





The manufacturing areas (opposite) evoke a huge, finely tuned machine. Glass walls inside the offices (below right) yield views into assembly and fabrication zones. Herman Miller products furnish the offices and a lounge (below left).





Openings in the tilt-up slabs create a pattern of repetition and variation that evokes the assembly-line process. The fenestration frames curbs, drain inlets, and extensive piping, this strategy reduced infrastructure costs-and, as the landscape architect suggests, "added visual views from within, while thin slots between the panels allow the sun to cast interest by breaking up the scale of parking with a variety of shapes." precise slashes of light-examples of what Elam calls "moments." Those shapes include hedgerows of trees bordering the marsh-Outside, the rhythm of apertures turns a simple box into an exploration of land. A "forest" of phone poles, some of which support lighting, also geometry-a play of light and shadows worthy of a De Chirico painting. punctuates the parking lots. The poles are taller and more numerous than The architects selected tilt-up concrete in part for its economythe lighting required, but they give the space vertical definition, providing but this method also holds a more-than-respectable place in the history of a transition between the building and the surrounding hills and valleys. American architecture. Irving Gill and then Rudolph Schindler used it to Roof and truck-apron runoff flows to the front of the site. "Such pioneer concrete construction in southern California in the early 20th century. In more prosaic applications, the technique is ubiquitous in north a giant pulse of water is too violent for marshes," Urbanski explains---so, in front of the building, he created a large pond, excavated down to the Georgia today. "Tilt-slab is a local custom for warehouses and transportation facilities-it's a method tried and true," Elam says. "But the concrete bedrock. The pond's organic shape contrasts with the building's geometry, reinforcing tension among natural, apparently natural, and explicitly conis usually painted. We were going for honesty of materials." structed elements. While the green infrastructure and its processes mimic The need for economical solutions, done with style, influenced nature, the orthogonal concrete forms are clearly man-made.

not only the building, but also the landscape design. The challenge, "We haven't invented anything here," says Elam. "All the materials according to Urbanski, entailed storm-water management on a site with are standard off-the-shelf. What we were looking for was not experimentarivers and streams on three sides. Water quality had to be maintained, tion, but a different way of assembling things." even where impervious surfaces tend to concentrate the runoff. "The normal solution," Urbanski says, "is to jam parking close to the building, and Fabric wall panels: Herman Miller then link both by piping, with fairly deep storm-water retention ponds Sources farther away." Instead, the landscape designer devised a more mutually Glazing system: Trainor Glass Tilt-up concrete: T & M Tilt-Up beneficial way to recombine the same three components: building, traffic Zinc cladding: VM Zinc (storefront) (preweathered Anthra-Zinc) www For more information on infrastructure, and storm-water filtration. Urbanski made what he describes as a "collage" of shallow ponds Exterior paint: Tnemec the people and products involved in Skylights: Naturalite Skylight this project, go to Projects at distributed across the asphalt parking area. The shallowness, he says, helps Systems; Polygar Solar Grade architecturalrecord.com.

prevent "a violent change in pond ecology when it rains-so you can put

plantings in them and create marshland." By eliminating the need for