

HOPKINS ARCHITECTS



SCHLUMBERGER CAMBRIDGE RESEARCH FACILITY

PASSIVE LIGHTING:

The fabric roof covers the drilling-rig test station and the main social space known as the 'winter garden'. They mutually benefit from the roof form; The workshop needs the height for drilling, and it's light and shape gives it the character of an outdoor space with ample weather protection for the winter garden.



A "cat's cradle" of cables transmits the weight of the fabric to the ground via four structures like suspension bridges.

The fabric covering is Teflon coated glass fibre. **PTFE** It is un-insulated and transmits about 13% daylight.



EXOSKELETAL STRUCTURE

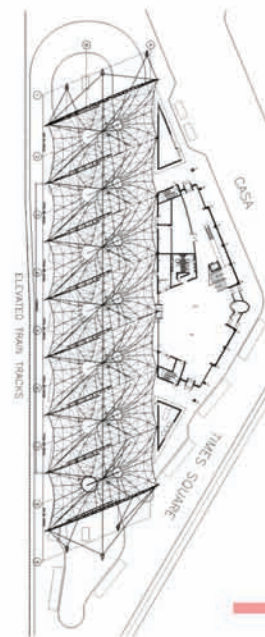
FTL DESIGN ENGINEERING STUDIO



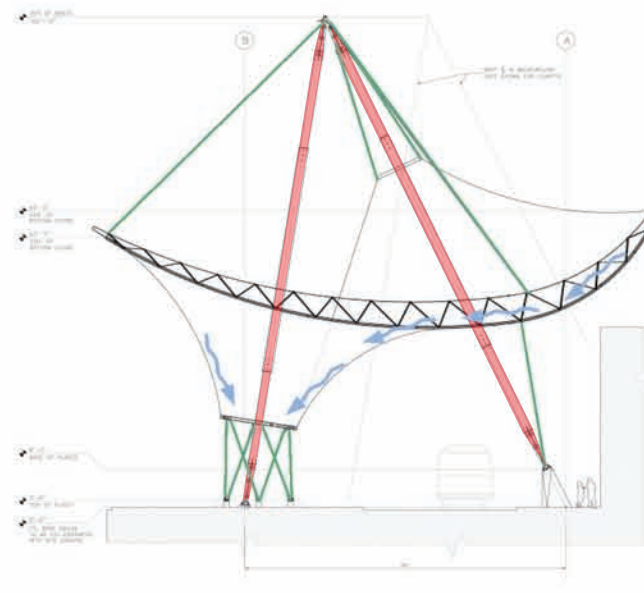
ROSA PARKS TRANSIT CENTER, DETROIT MI

LIGHT STRUCTURE: REDUCED MATERIAL USAGE

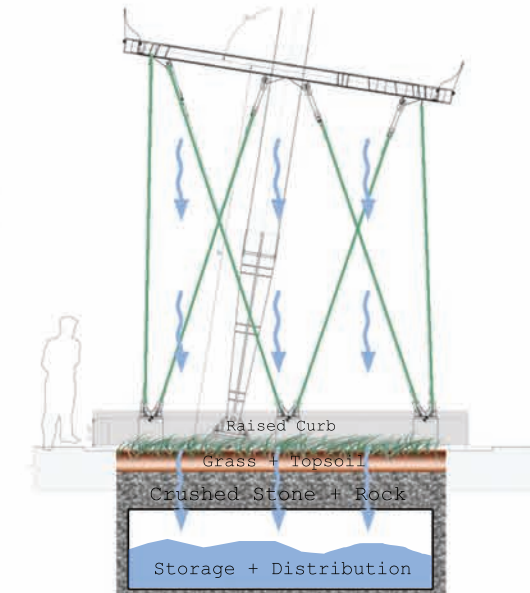
SITE PLAN



DETAIL: BAY SECTION



DETAIL: BASE AND RAINWATER COLLECTOR



— Indicates Compression — Indicates Tension

~ Indicates Flow of Precipitation



RAINWATER COLLECTION

FOSTER + PARTNERS



KHAN SHATYR ENTERTAINMENT CENTRE, KAZAKHSTAN

INNOVATIVE MEMBRANE MATERIALS

The roof is constructed from Tri-Layer insulating envelope of **ETFE** suspended on a network of cables strung from a central spire. The transparent material allows sunlight through which, in conjunction with air heating and cooling systems is designed to maintain an internal temperature.



PowerMod 1200M™

- Recharge Humvees and other Mobile Power Distribution Vehicles
  - Small Unit Operations (Platoon and Squad)
  - Mobile Tactical Units: Medical, Refrigeration, Communications
  - Expedition Base Camps
- Average Daily Output: 4.5 KWH  
 Operating Voltage (V): 24  
 Operating Current (Amps): 38.4



PHOTOVOLTAIC PANELS