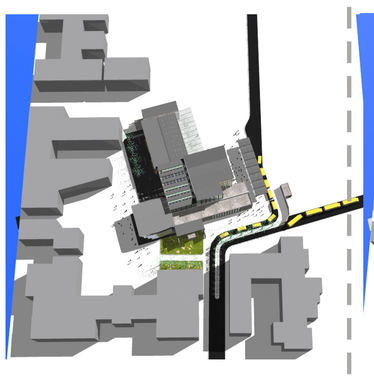
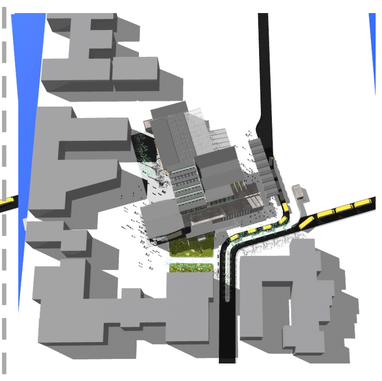
University of Pretoria etd – Roccon, EB (2003)

INTERCITY COACH TERMINAL

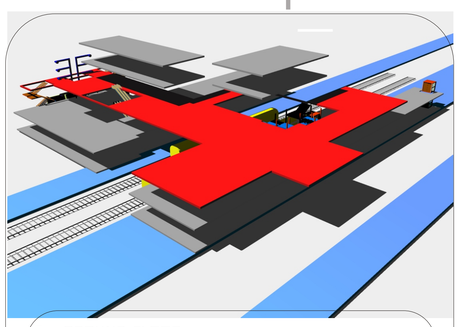
PROVIDES A SERVICE TO COMMUTERS TRAVELLING LONGER DISTANCES TO NEARBY TOWNS AND CITIES NOT COVERED BY THE GAUTRANS AND METRORAIL NETWORKS



Morning shadows



Afternoon shadows



THE **GROUND FLOOR** WILL BE THE INTERNAL LINKING SPACE BETWEEN THE TWO PUBLIC OPEN SPACES. IT WILL FORM THE ACTIVITY NODE WHERE TRAVELER, VISITOR AND STAFF INTERACT TO FORM A PART OF THE DAILY FUNCTIONAL ACTIVITIES.

THE **VERTICAL CIRCULATION** SPACES WILL ALSO BE USED TO CIRCULATE TREATED AND CONDITIONED **AIR** VERTICALLY THROUGH THE SPACES, HELPED BY ELECTRICAL OPERATED FANS

THE GROUND FLOOR HAS AS PRIMARY FUNCTION: CENTRAL CIRCULATION FOYER: THE CONNECTION SPACE OF THE TWO PUBLIC OPEN SPACES, ENTRANCE FROM ARRIVAL- AND EXIT TO THE DEPARTURE PLATFORM.

THE PLATFORMS WILL ONLY BE ACCESSIBLE THROUGH A VALID TRAIN TICKET FOR SECURITY AND CONTROL REASONS. THE MAIN MOVEMENT FOYER AND INFORMATION/ HELP DESK WILL BE ACCESSIBLE BY ANY PERSON

Per 1 **Ground floor**

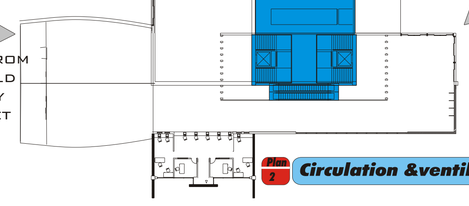
WINTER SUN PENETRATES TIMBER SCREENS. OPEN UP- WARM AIR VENT BY DOUBLE VOL

ACCESS TO /FROM MARKET BUS TERMINAL PEDESTRIAN

ACCESS TO/FROM KISS/RIDE GAUTRANS BUSSES DUNCAN STREET METRO RAIL STATIONS CORRIDOR

THE GRASSED AREA ON THE WESTERN SIDE WILL MINIMIZE RE-RADIATED HEAT FROM THE HARD PAVED SURFACE

ACCESS FROM TO HATFIELD UNIVERSITY PED STREET SUBURB



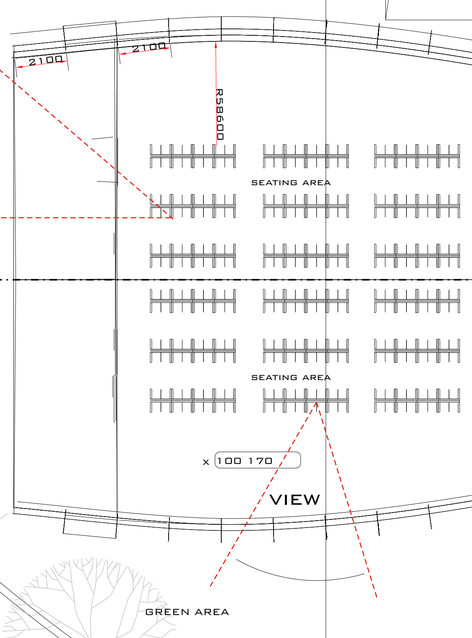
Plan 2 **Circulation &ventilation**

PUBLIC OPEN SPACE

THE PUBLIC OPEN SPACE (POS) WILL FORM AN END NODE WITH PRETORIA ART GALLERY TO THE WEST. ARCADIA STREET WILL FORM THE ACTIVITY LINE. RETAIL, CAFES AND RESTAURANTS WILL FORM THE ACTIVITIES ON THE PUBLIC SPACE. THE BUILDINGS ON THE P.O.S WILL HAVE A HEIGHT RESTRICTION OF 12 M TO ALLOW FOR ADEQUATE SUN PENETRATION.(REFER TO URBAN DESIGN APPENDIX)

RECYCLING:

PLASTIC COMPOSITE SUNSCREENS TO PLASTIC TECHNOLOGIST SPEC.



VIEW TO P.O.S

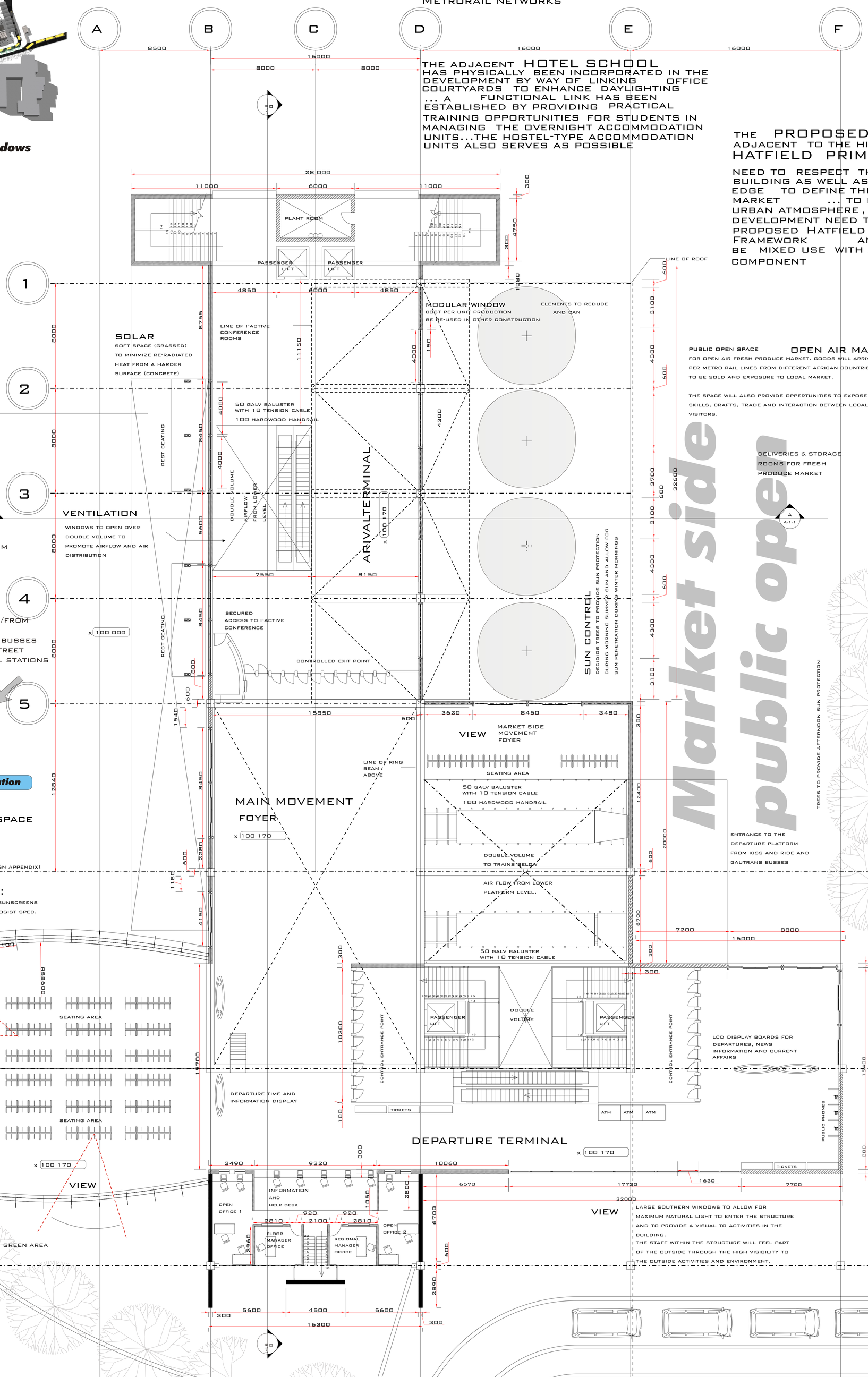
MAIN ENTRANCE FOYER

ENTRANCE STRUCTURE OPEN UP TOWARDS ARCADIA STREET TO FORM ENTRANCE LINE ON STREET AXIS.
NIGHT TIME LIGHTING WILL ILLUMENATE GLASS STRUCTURE TO ACT AS "BEACON"

THE HOTEL SCHOOL HAS PHYSICALLY BEEN INCORPORATED IN THE DEVELOPMENT BY WAY OF LINKING OFFICE COURTYARDS TO ENHANCE DAYLIGHTING ... A FUNCTIONAL LINK HAS BEEN ESTABLISHED BY PROVIDING PRACTICAL TRAINING OPPORTUNITIES FOR STUDENTS IN MANAGING THE OVERNIGHT ACCOMMODATION UNITS...THE HOSTEL-TYPE ACCOMMODATION UNITS ALSO SERVES AS POSSIBLE

THE PROPOSED DEVELOPMENT ADJACENT TO THE HISTORICAL HATFIELD PRIMARY SCHOOL

NEED TO RESPECT THE EXISTING BUILDING AS WELL AS PROVIDE AN EDGE TO DEFINE THE FRESH PRODUCE MARKET ... TO ENSURE A VIBRANT URBAN ATMOSPHERE, THE DEVELOPMENT NEED TO FIT IN WITH THE PROPOSED HATFIELD URBAN DESIGN FRAMEWORK AND SHOULD THEREFORE BE MIXED USE WITH A MAIN COMMERCIAL COMPONENT



OPEN AIR MARKET AREA

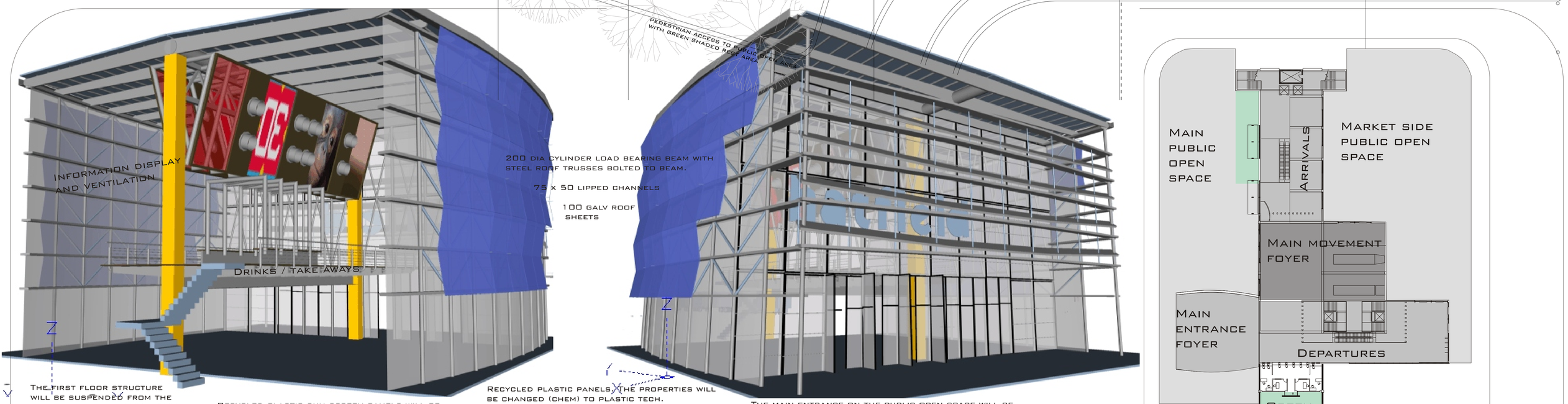
PUBLIC OPEN SPACE FOR OPEN AIR FRESH PRODUCE MARKET. GOODS WILL ARRIVE PER METRO RAIL LINES FROM DIFFERENT AFRICAN COUNTRIES TO BE SOLD AND EXPOSURE TO LOCAL MARKET.

THE SPACE WILL ALSO PROVIDE OPPERTUNITIES TO EXPOSE LOCAL SKILLS, CRAFTS, TRADE AND INTERACTION BETWEEN LOCALS AND VISITORS.

ENTRANCE TO THE DEPARTURE PLATFORM FROM KISS AND RIDE AND GAUTRANS BUSSES

Main public open space

Market side public open space



The first floor structure will be suspended from the beam between the 600 x 600 concrete columns

Recycled plastic sun screen panels will be fitted horizontally to 25 dia vertical steel tubings and tension cables will add lateral stability for wind loads.

Recycled plastic panels. The properties will be changed (chem) to plastic tech. Specifications.

100 dia load bearing cylinder steel column @ 2100 centers

50 dia cylinder steel cross bracing

The main entrance on the public open space will be on the arcadia street axis. At night the illuminated glass structure will act as a "beacon" and illuminate the public open space.

Per 2 **Main entrance-arcadia str**

Plan 1 **Ground floor spaces**

GAUTRANS
Hatfield station

BERNARD ROCCON
2015122
M.ARCH II

Ground floor plan