SOM
Multidisciplinary Design

Kent Jackson
Design Director
June 2014

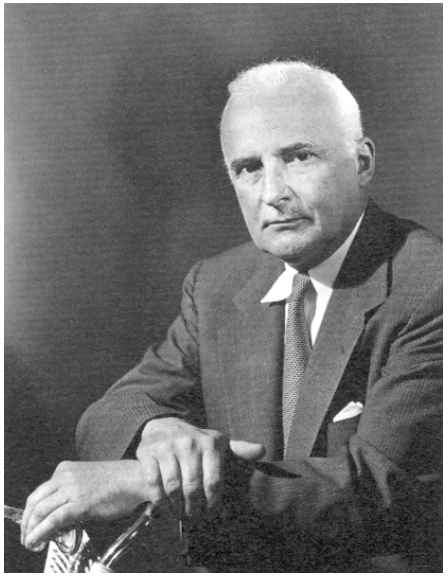
SOM

A Multidisciplinary Practice

Formed in 1936

Timeless design for over 75 years

SOM was founded in 1936 following Skidmore and Owing's successful collaboration on the 1933 Exposition 'A Century of Progress' in Chicago.



Louis Skidmore

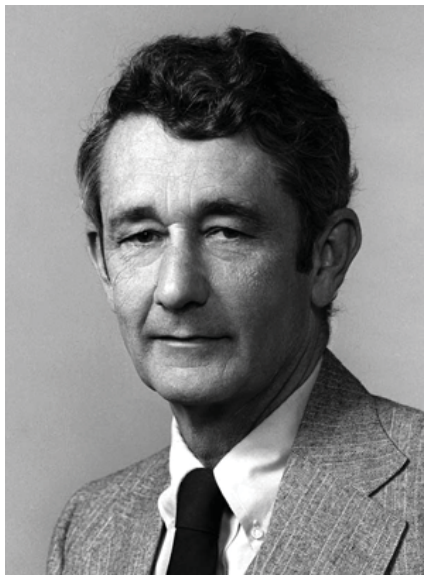
Nathaniel A. Owings

John O. Merrill

A Second Generation

Pushing SOM to Achieve Design Excellence

Gordon Bunshaft
Pritzker Prize 1988



Bruce Graham

Fazlur R. Kahn

Our Staff are Specialists

SOM invites designers from Architecture School and allows them to Specialise

Derek Moore
New York

Expert in
Transport
Planning

Lonny Israel
San Francisco

Expert in
Graphic Design

Jaime Valez
New York

Expert in
Workplace
Design

Dmitri Jajich
London

Expert in
Structural
Engineering

Takang Hsu
London

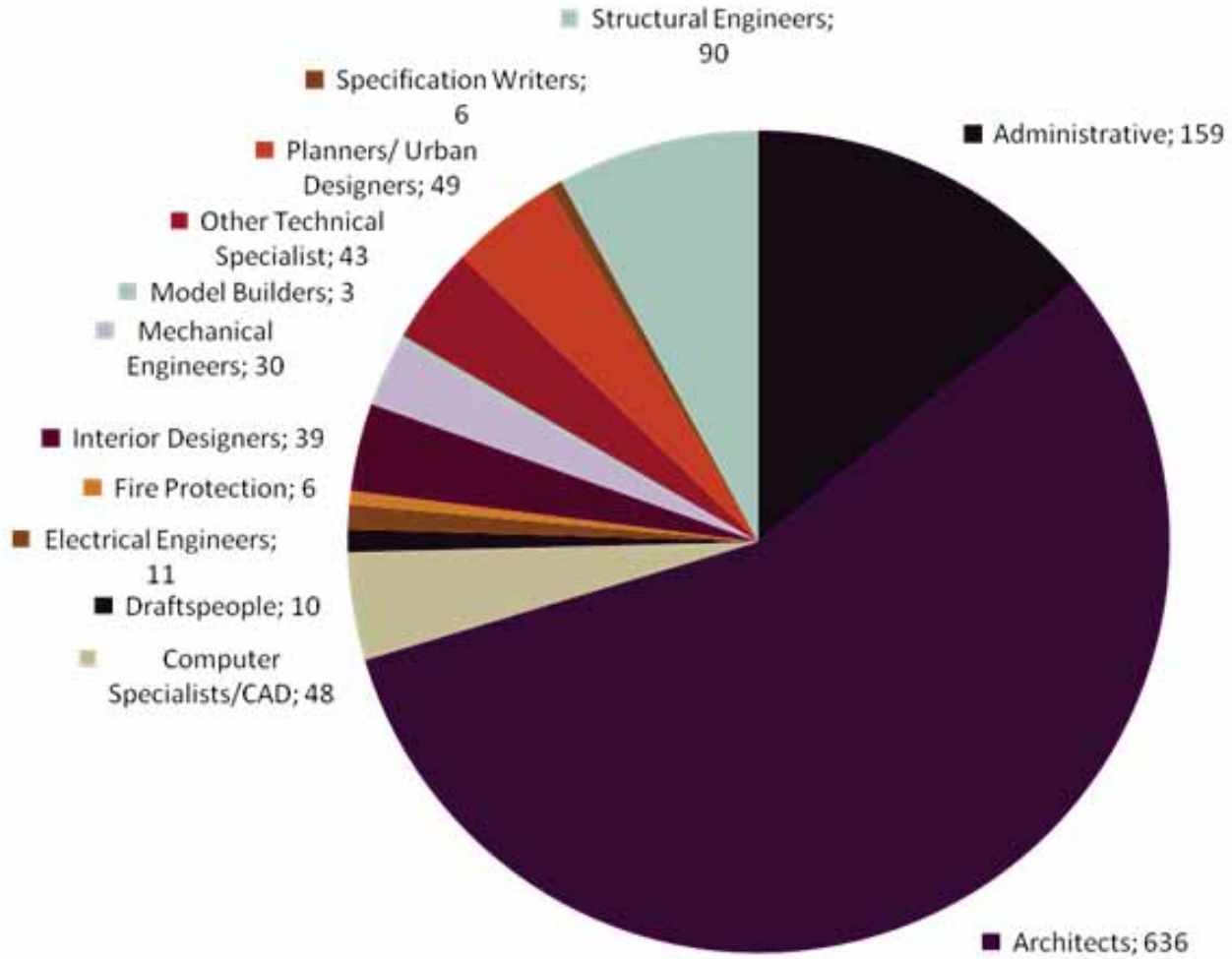
Expert in
3D Parametric
Design

An Integrated International Practice

SOM currently employs 1130 people across 12 offices

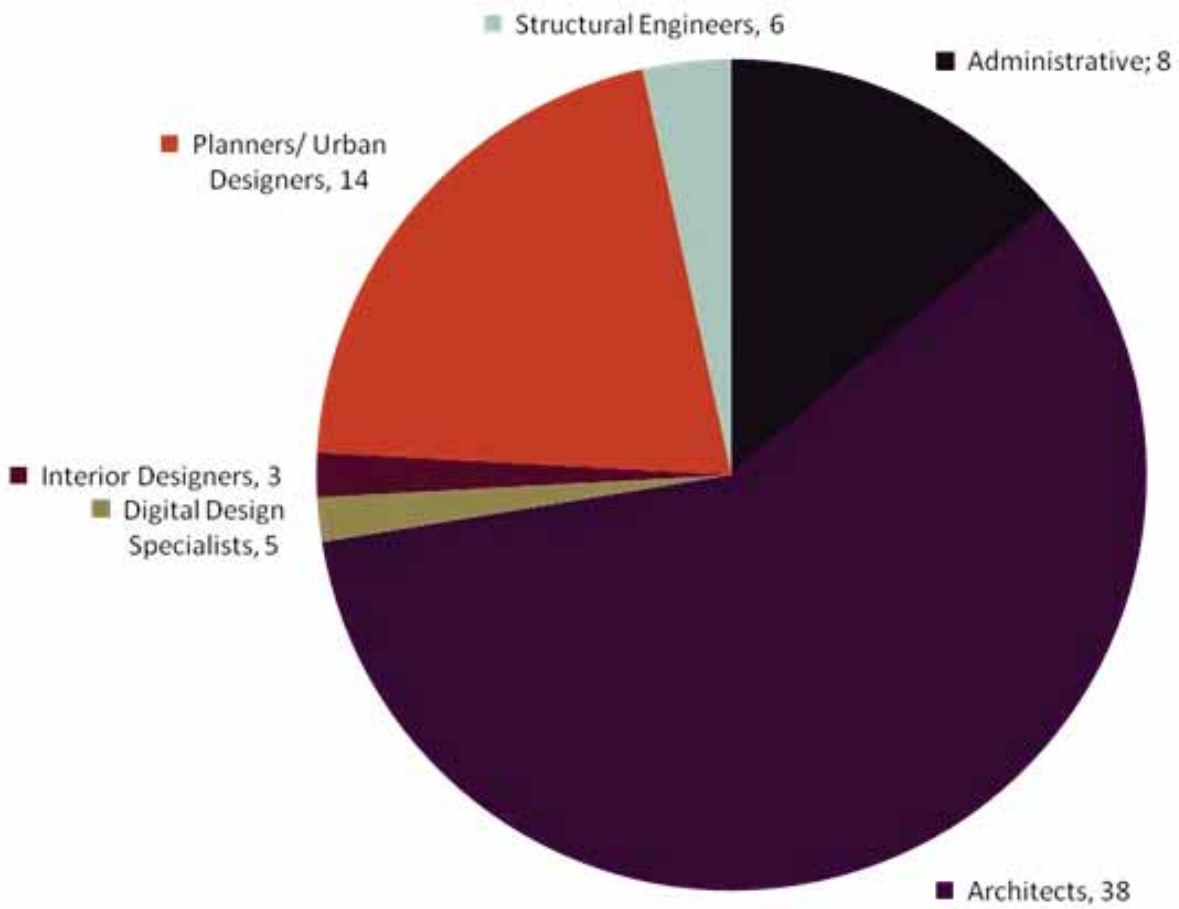
Multidisciplinary Practice

Firm wide Distribution of Staff Across Disciplines



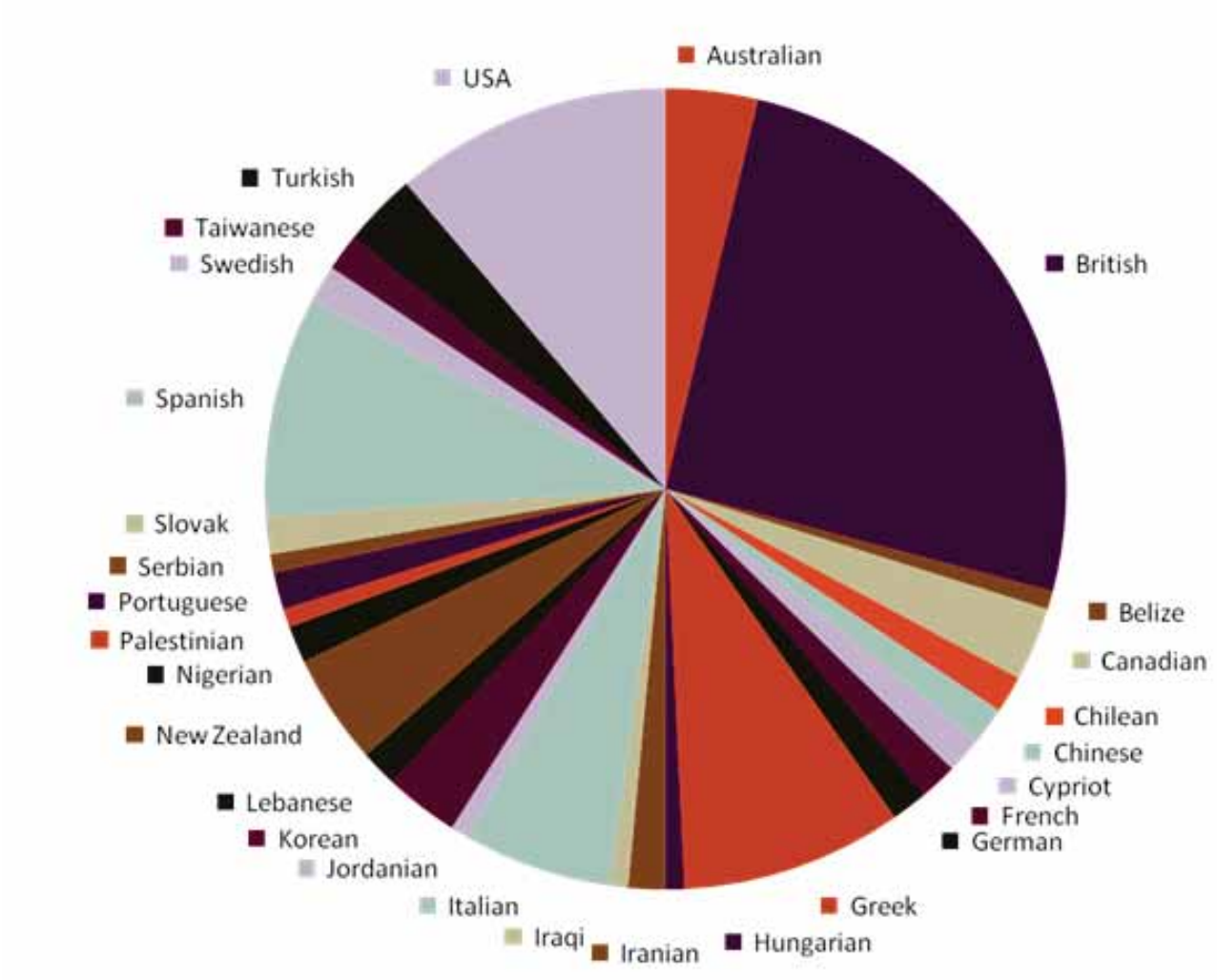
Multidisciplinary Practice

London Office Distribution of Staff Across Disciplines



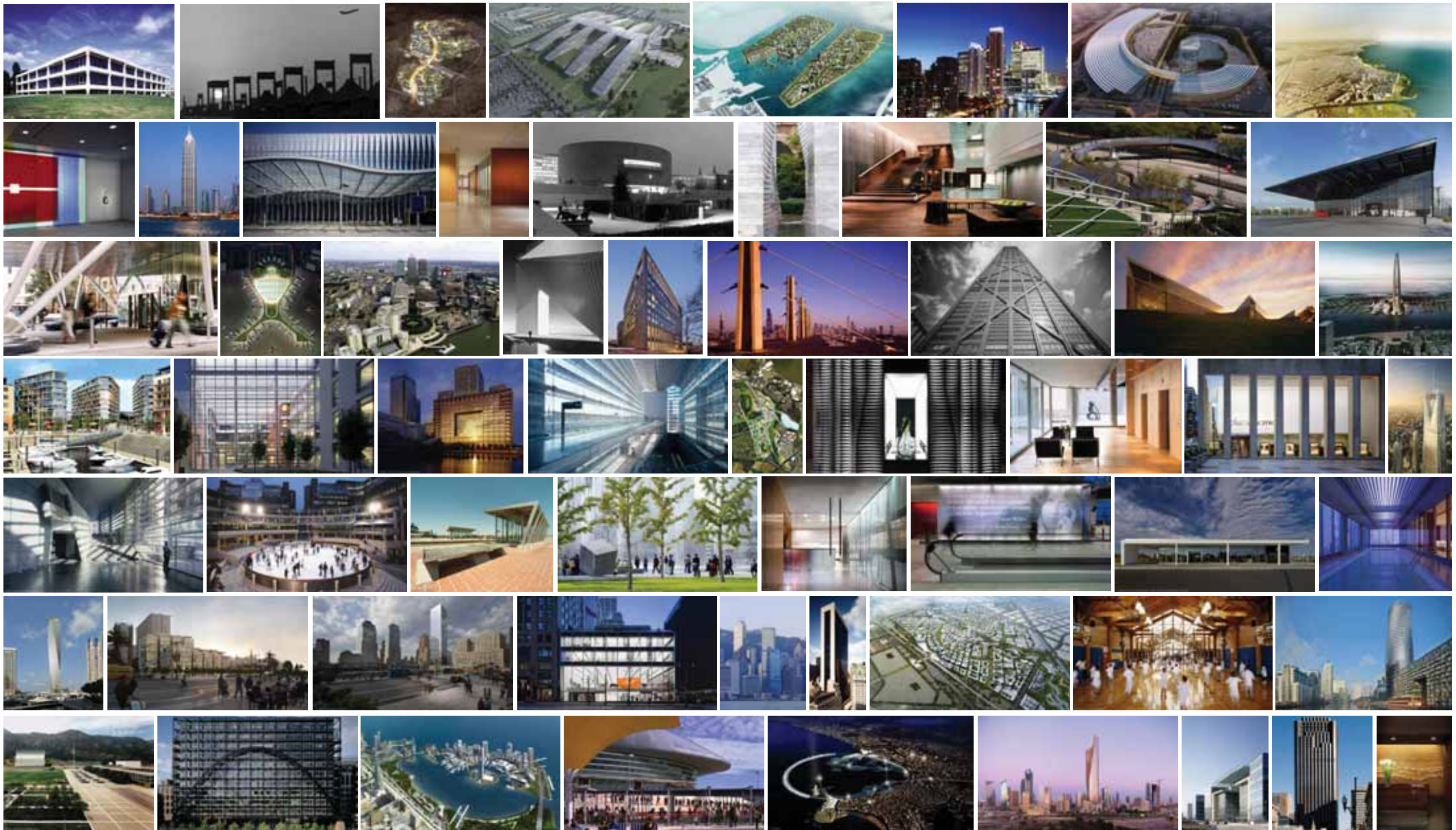
Our staff are diverse

London Office: 29 Languages, 26 Nationalities



A Significant Body of Work

SOM has built more than 10,000 projects



Modern Architects

Innovating and Adapting

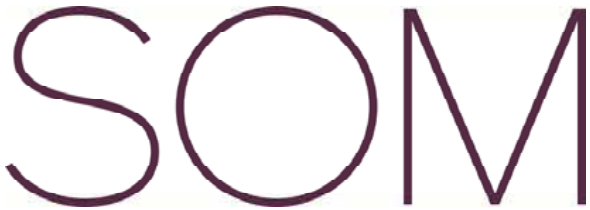
“From the modern office building to the rural corporate campus and the great developer skyscraper, the contemporary airport and rail station, to say nothing of the populization of modern architecture in general. SOM was there.”

Nicholas Adams, Skidmore Owings & Merrill, the Experiment since 1936.

King Abdul Aziz International Airport – Hajj Terminal
Jeddah, Saudi Arabia

Ruck-A-Chucky Bridge
Auburn, CA USA

Changi International Airport - Terminal 3
Changi, Singapore



Design Excellence

A Single Goal, a Diverse Approach

SOM’s multiple offices

“Despite a public face that sometimes appears monolithic, SOM functions more like a federated group of city states or affiliated research teams, each ruled in its own way with its own sense of history and purpose. The goals may be identical but each of the partners gives them slightly different weight.”

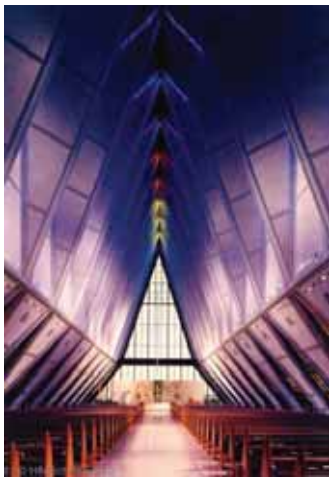
Nicholas Adams, Skidmore Owings & Merrill, the Experiment since 1936.

Consistent Design Excellence

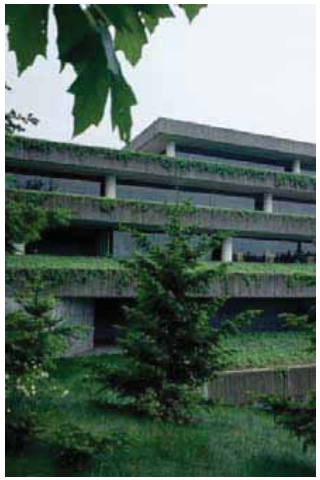
Timeless award-winning design

Lever House
New York, New York
1980 AIA

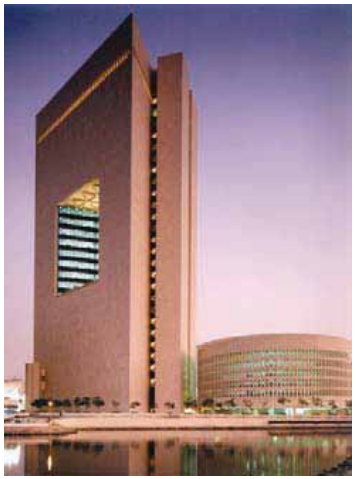
John Hancock Tower
Chicago, Illinois
1993 AIA



US Air Force Chapel
Colorado Springs,
Colorado
1997 AIA



Weyerhaeuser HQ
Tacoma, Washington
2001 AIA



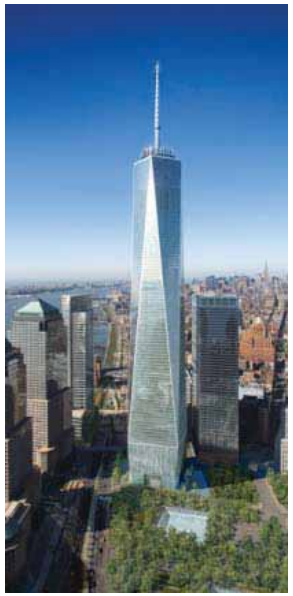
National Commercial Bank
Jeddah, Saudi Arabia
2008 AIA

King Abdul Aziz Airport
Jeddah, Saudi Arabia
2010 AIA

SOM Today

The continued pursuit of timelessness

Burj Khalifa
Dubai, UAE



One World Trade Centre
New York

Trump Tower
Chicago, Illinois

JTI Headquarters
Geneva, Switzerland

Broadgate Tower
London, UK

Multi disciplinary = Collaborative

Internal Design Review

Leading the Industry

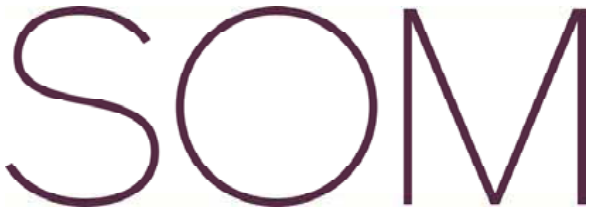
Design Excellence

Most Innovative Architecture Firm
Fast Company

Number 1 Architecture Firm
Architect Magazine

…and then to our Peers

The SOM Journals



Strength in Specialism

We are Masters of all Skills Associated with Construction

Drawing on the expertise of a diverse and multi-disciplinary firm

We are Masters of all Skills Associated with Construction

Drawing on the expertise of a diverse and multi-disciplinary firm

Planning

The Great Lakes Vision Plan, USA

Architecture

1 World Trade Center, New York

Sustainable Design

Energy + Net Zero Building

Interior Design

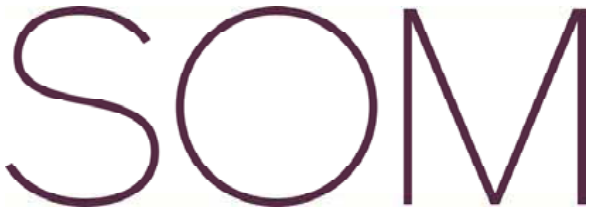
JTI Mount Street

Structural Engineering

Timber Tower Research Project

Structural Engineering

The Guggenheim, Bilbao, Spain (Architecture by Frank Gehry)



Architects & Engineers

Huge Icons to Small Gems

Design Excellence

Burj Khalifa
Dubai, UAE

Cathedral of Christ the Light
Oakland, CA, USA

SOM Engineering

A Rich Legacy

SOM Partner Fazlur Kahn, creator of the ‘bundled tube’ spearheaded the firm’s legacy of complex engineering projects.

King Abdul Aziz International Airport - Hajj Terminal
Jeddah, Saudi Arabia

SOM Engineering

A Rich Legacy

SOM Partner Fazlur Kahn, creator of the ‘bundled tube’ spearheaded the firm’s legacy of complex engineering projects.

John Hancock Center
Chicago. USA

SOM Engineering

A Rich Legacy

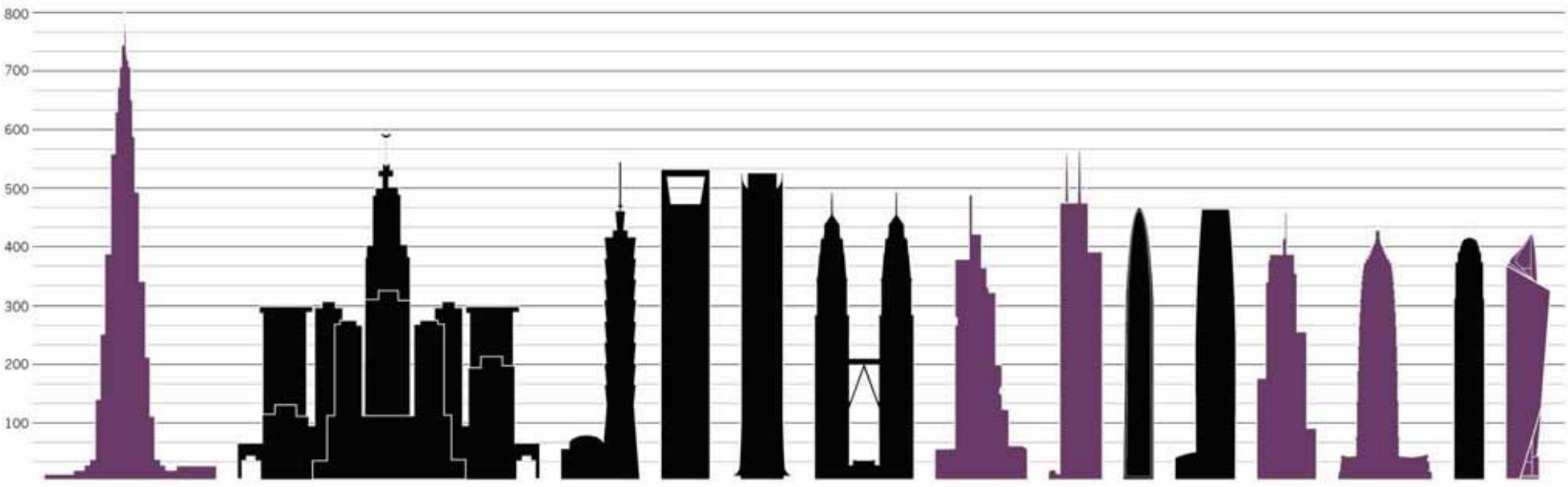
SOM Partner Fazlur Kahn, creator of the ‘bundled tube’ spearheaded the firm’s legacy of complex engineering projects.

Willis Tower (formerly Sears Tower)
Chicago, USA

Pushing the Boundaries

SOM Tall Buildings

6 of the world's **15** tallest buildings were designed and engineered by SOM.



From left to right Burj Khalifa, Makkah Royal Clock Tower Hotel, Taipei 101, Shanghai World Financial Centre, International Commerce Center, Petronas Tower 1 & 2, Zifeng Tower, Willis Tower (formerly Sears Tower), KK 100, Guangzhou International Finance Center, Trump International Hotel & Tower, Jin Mao Building, **Princess Tower**, Al Hamra Firdous

The Tallest Building in the World

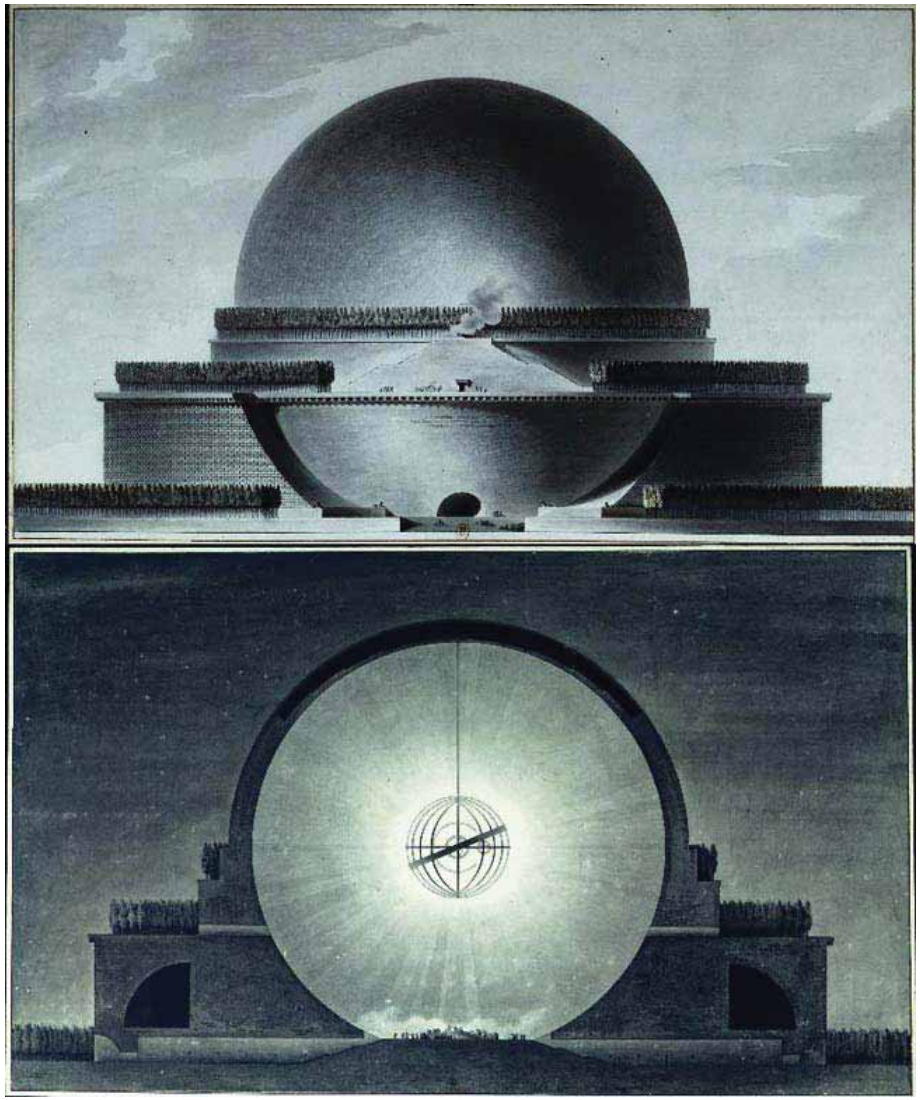
The Burj Khalifa, Dubai

Achieving and delivering the tallest building in the world would not have been possible without collaboration between our architects and our engineers from the outset of design

Designing Deliverable Buildings

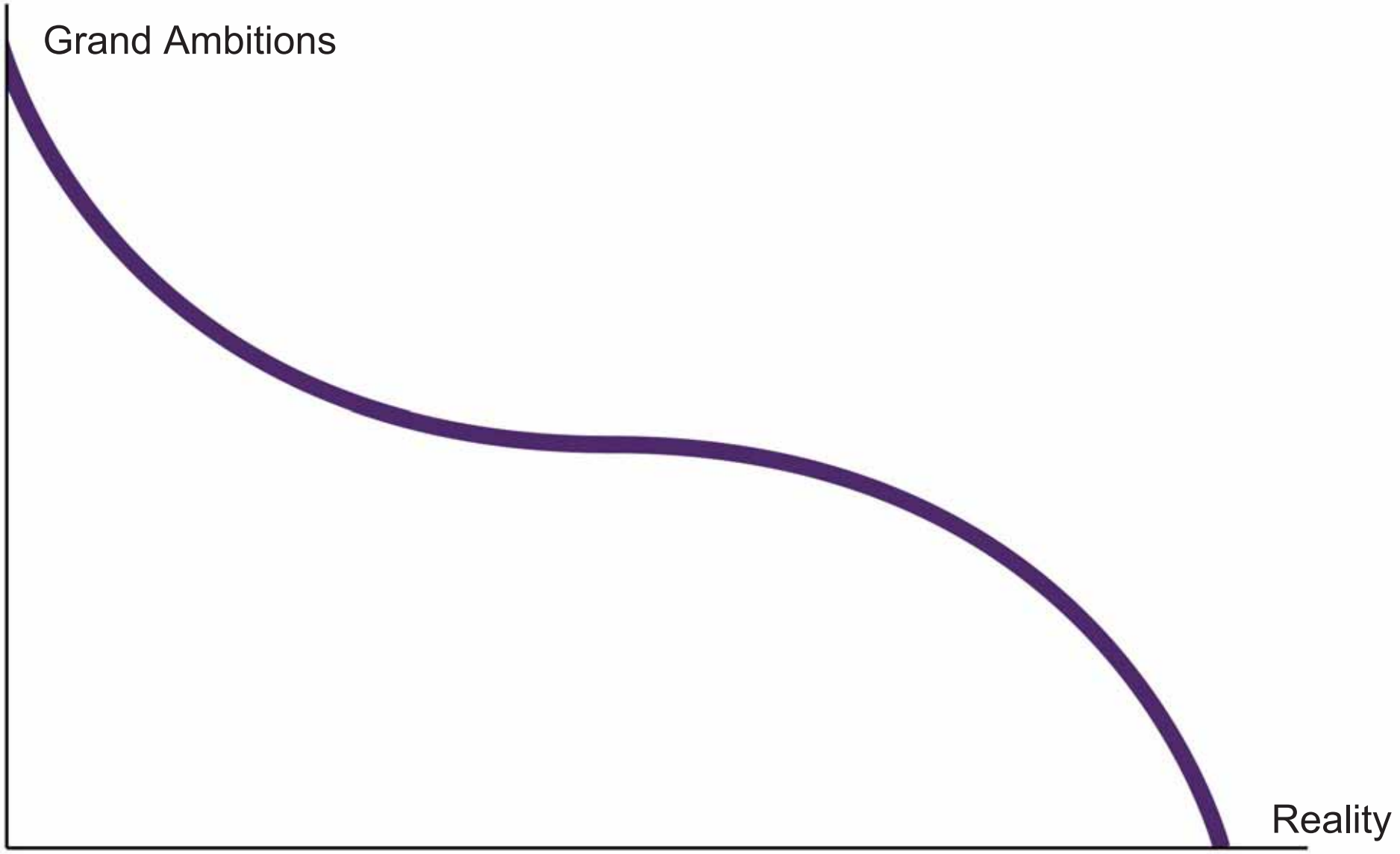
The Real Value of Collaboration

Without early input from engineers, the essence of a building's design concept may be lost through the value engineering necessary to actually deliver it, if it can be delivered at all.



Designing Deliverable Buildings

The Real Value of Collaboration



Designing Deliverable Buildings

The Real Value of Collaboration

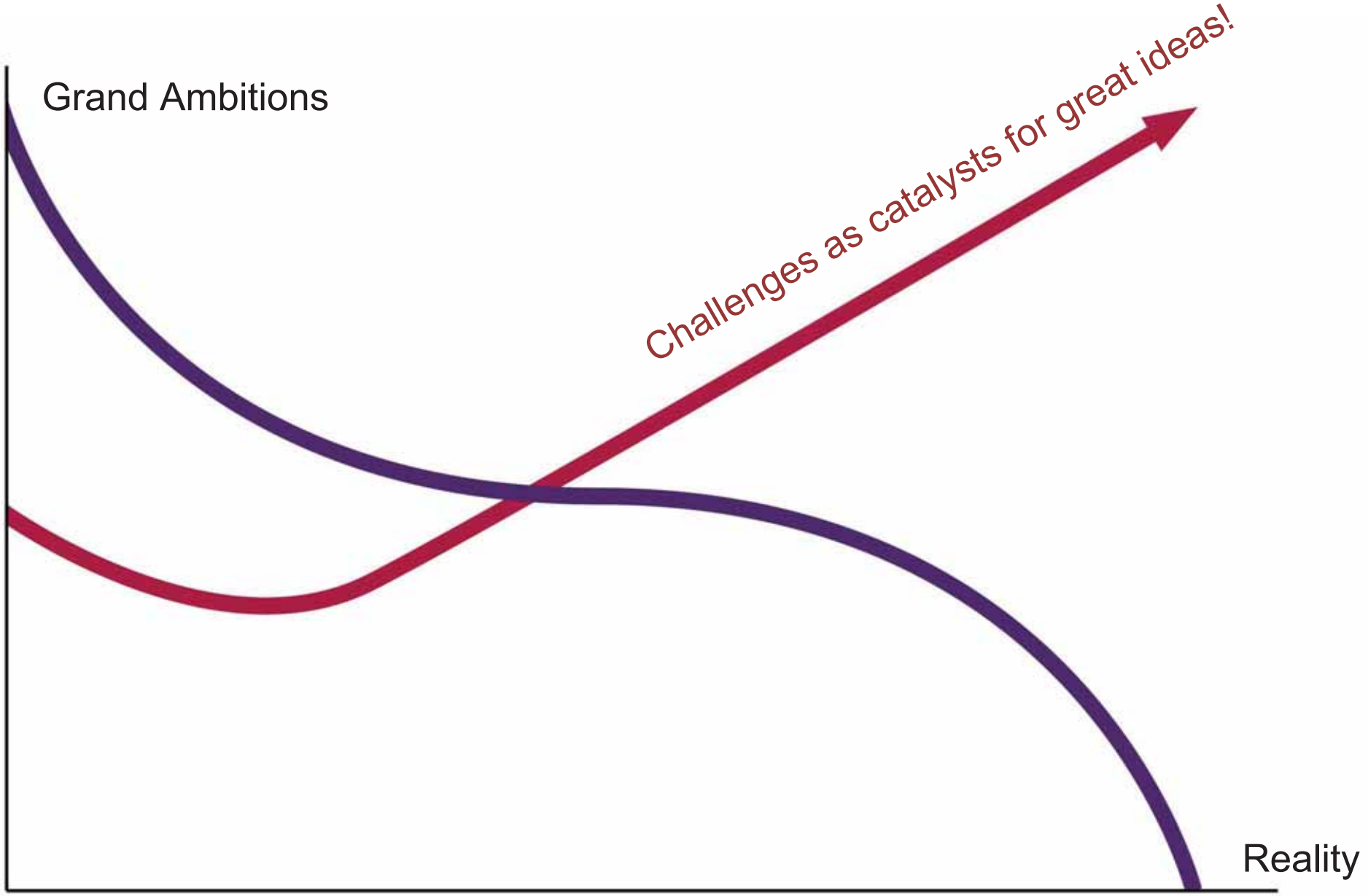
If, however, engineers are involved from the outset, the engineering will be integral to the design concept:

•The implication of design decisions on **cost can be understood** from the outset

•Identified early on in the design process, **constraints** can be translated into **opportunities** for great design ideas

Designing Deliverable Buildings

The Real Value of Collaboration



SOM

Case Study 1:

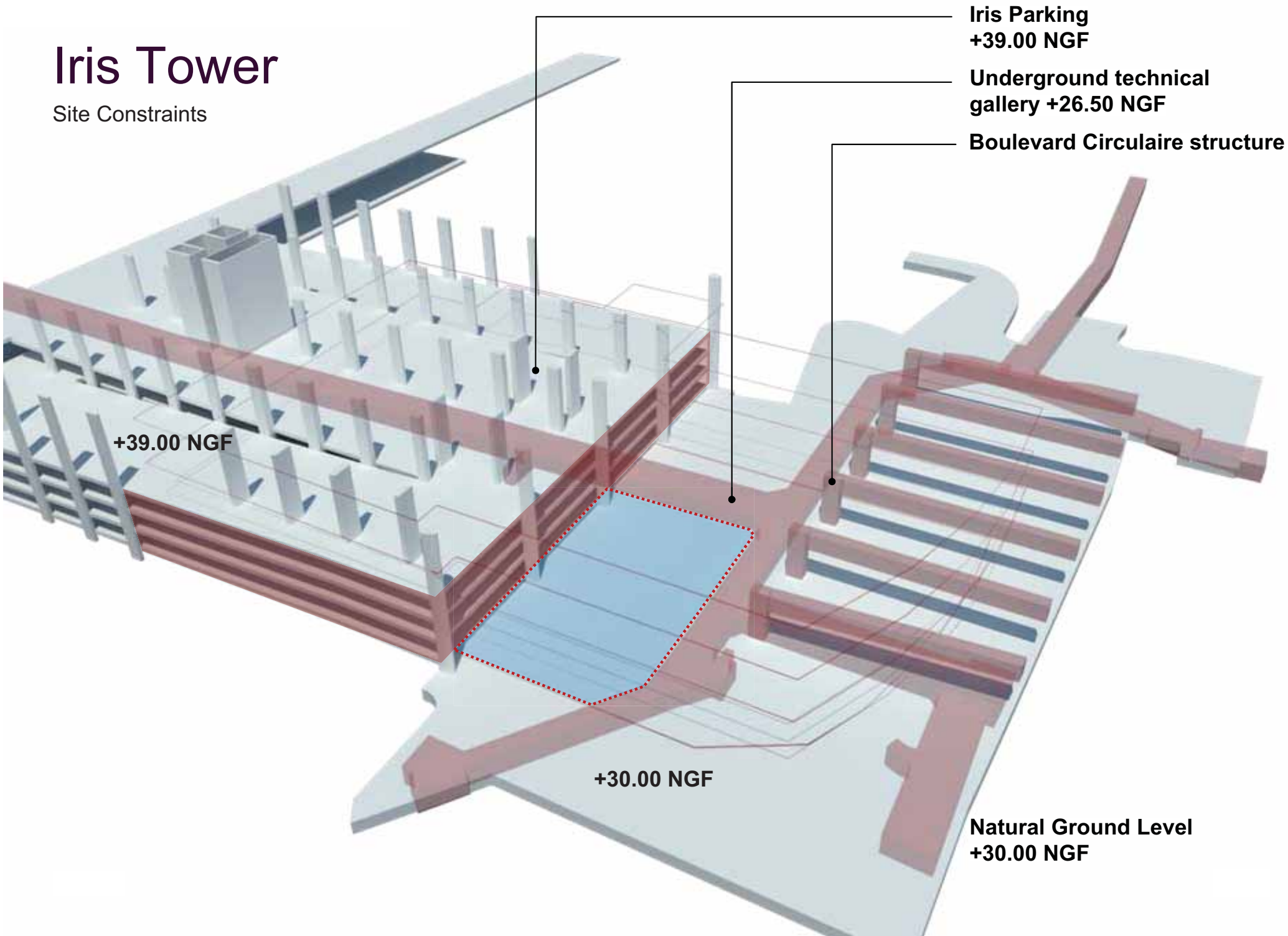
Iris Tower Competition, Paris

Iris Tower

Paris

Iris Tower

Site Constraints



Iris Tower

Limited building footprint

Iris Tower

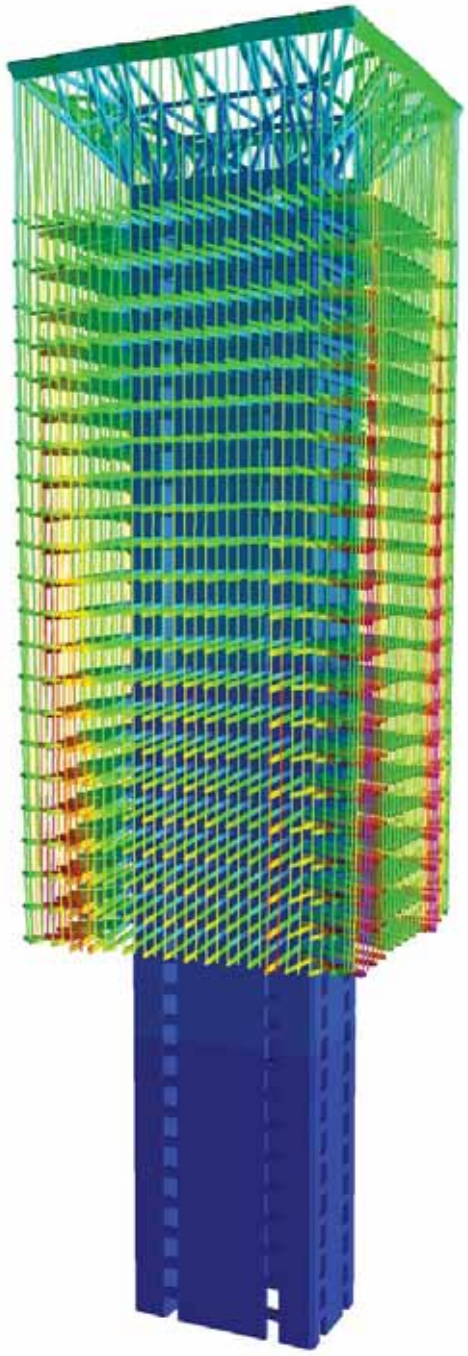
The Green Carpet

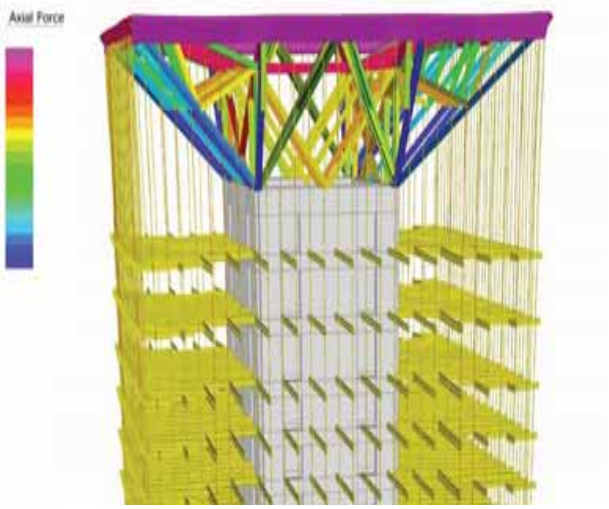
Iris Tower

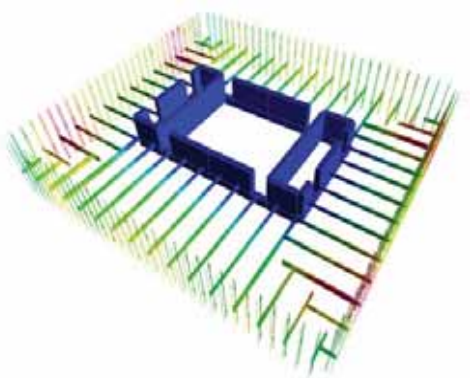
Freeing up the Ground Floor

Iris Tower

Structural System

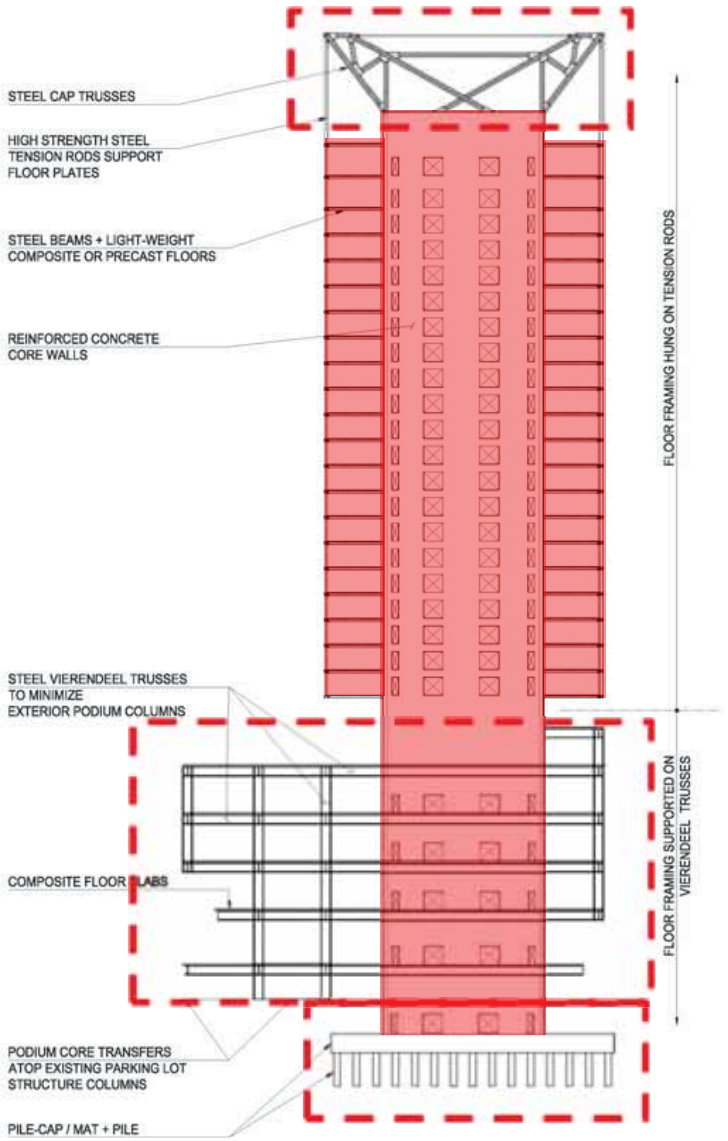






Iris Tower

Structural System



SOM

Case Study 2:

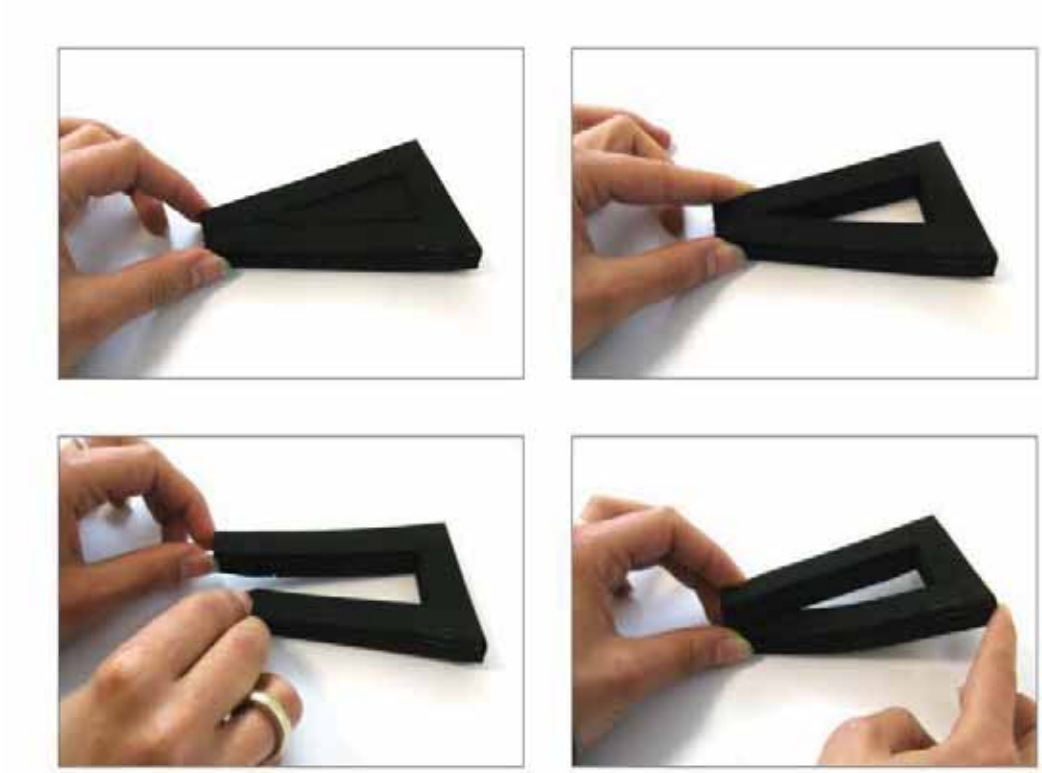
The JTI Building, Geneva

The JTI Building

Geneva, Switzerland

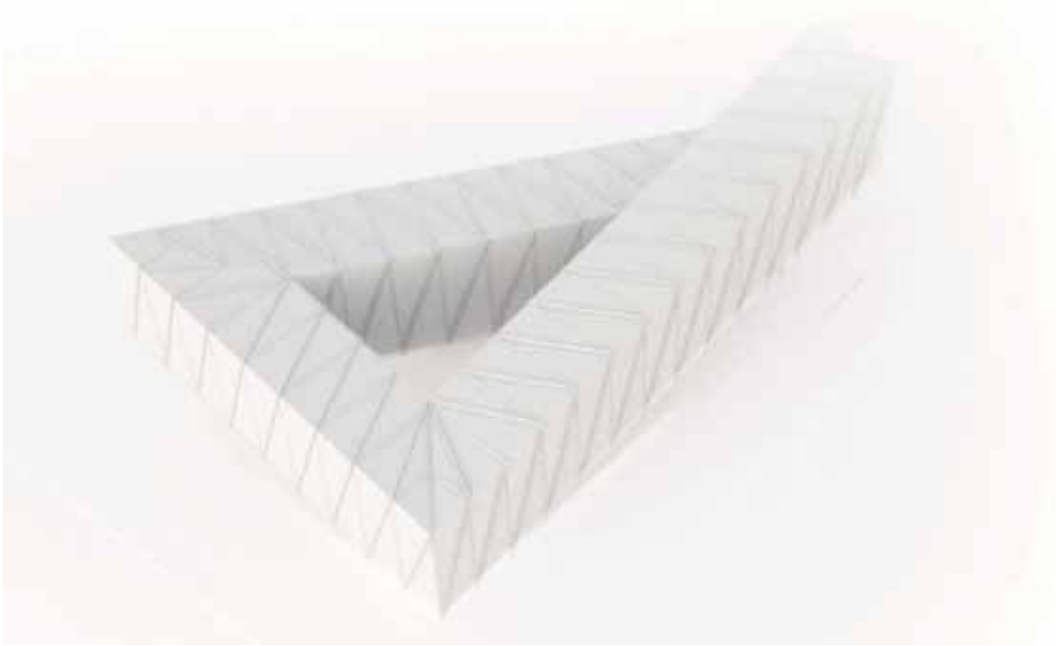
The JTI Building

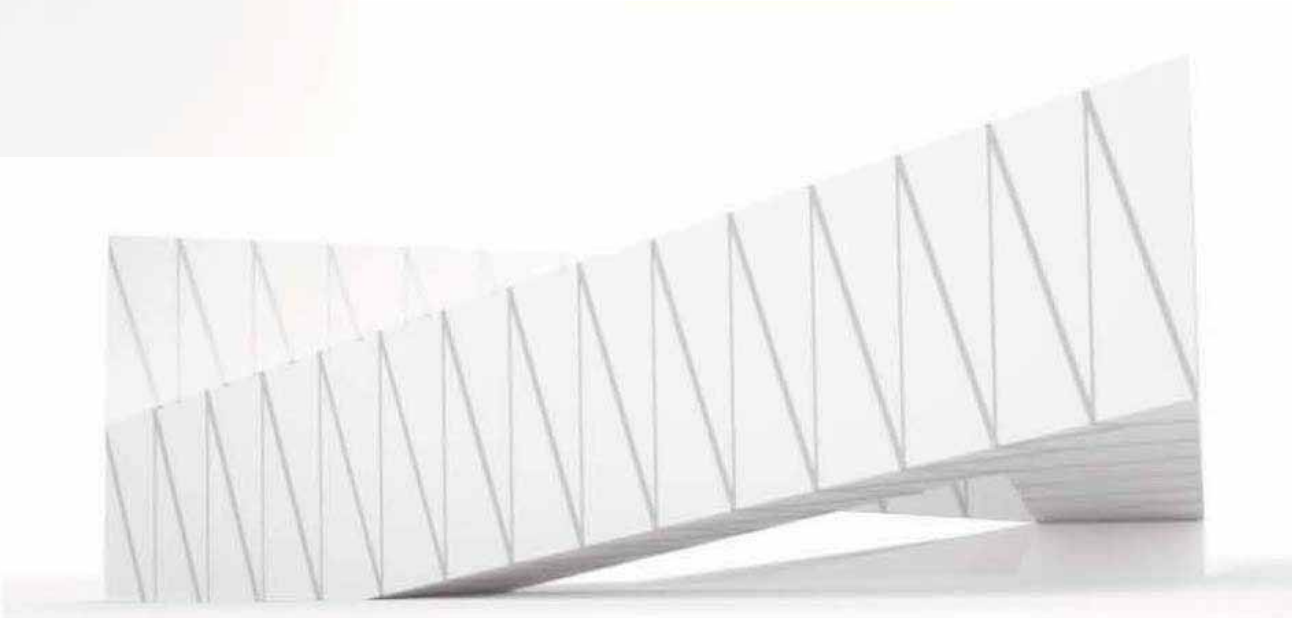
Structural Concept



The JTI Building

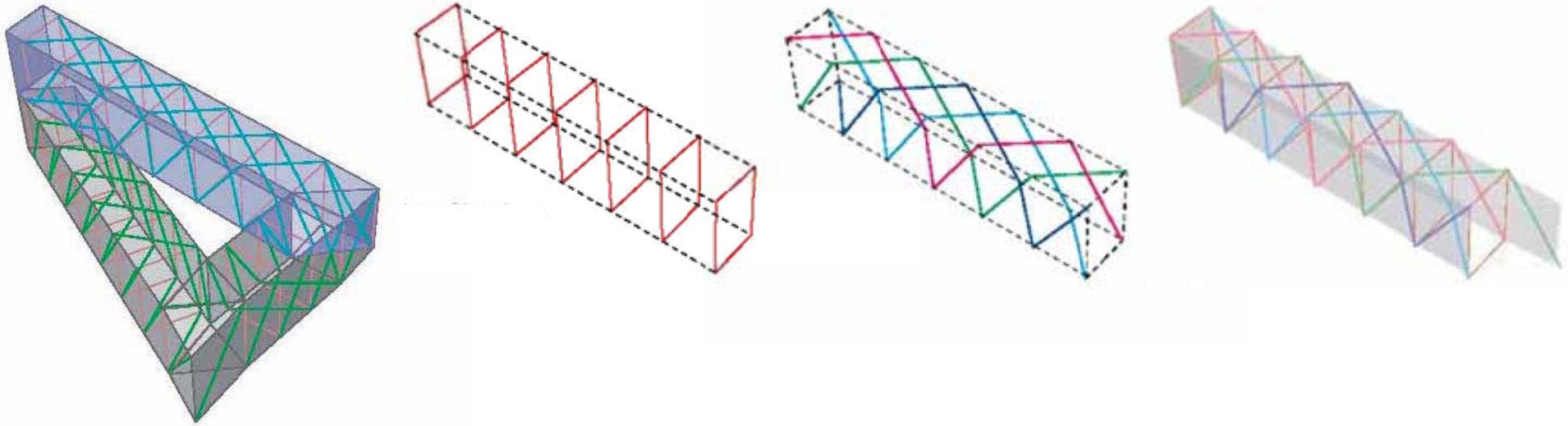
Structural Concept





The JTI Building

Structural Concept

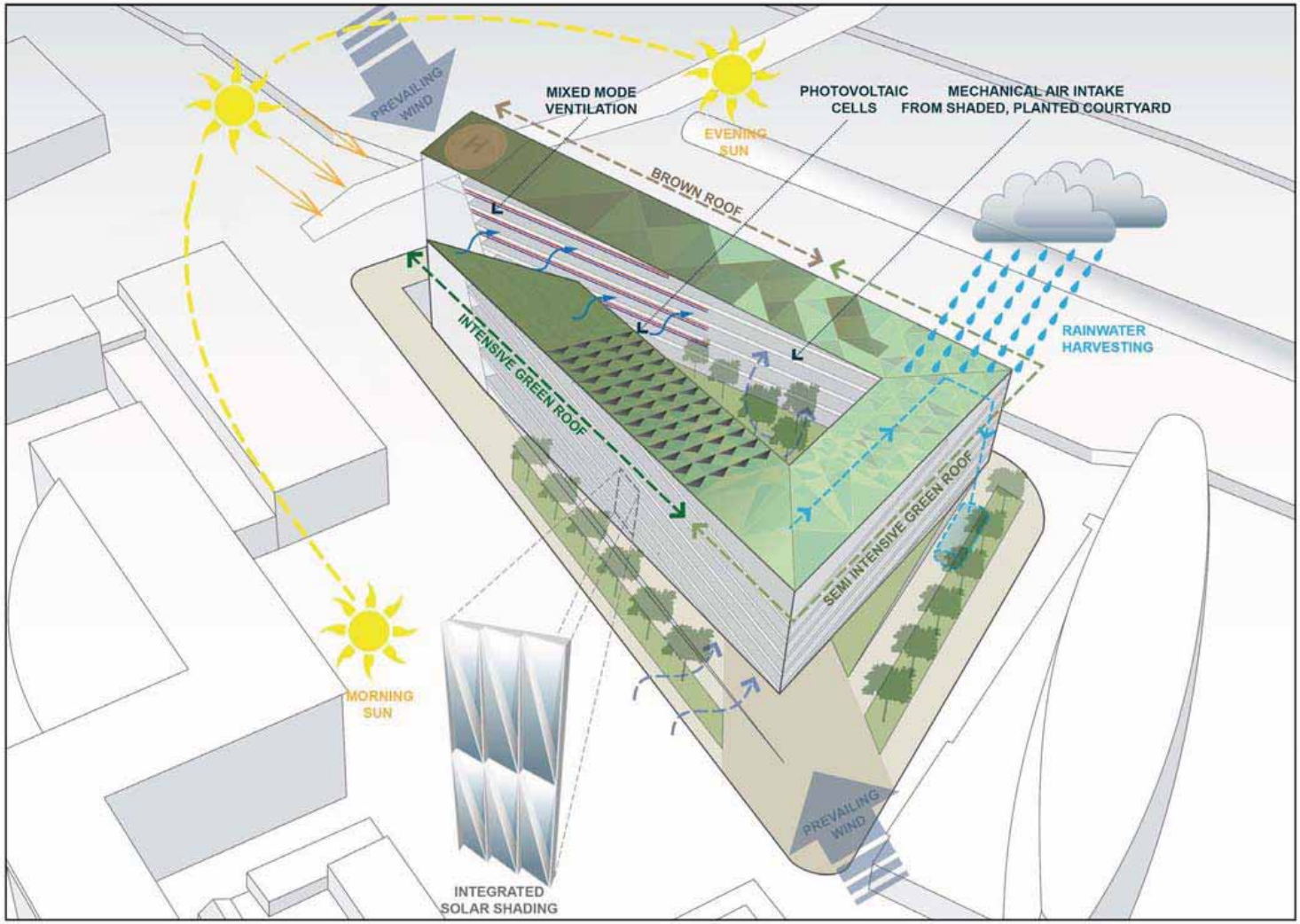


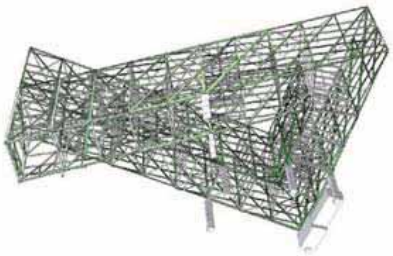
The JTI Building

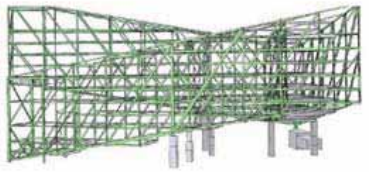
On Site in Geneva

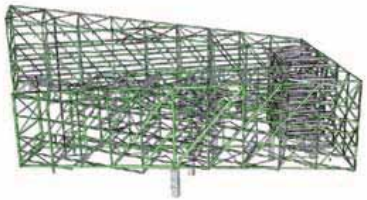
The JTI Building

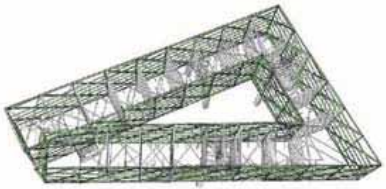
Sustainability Concept





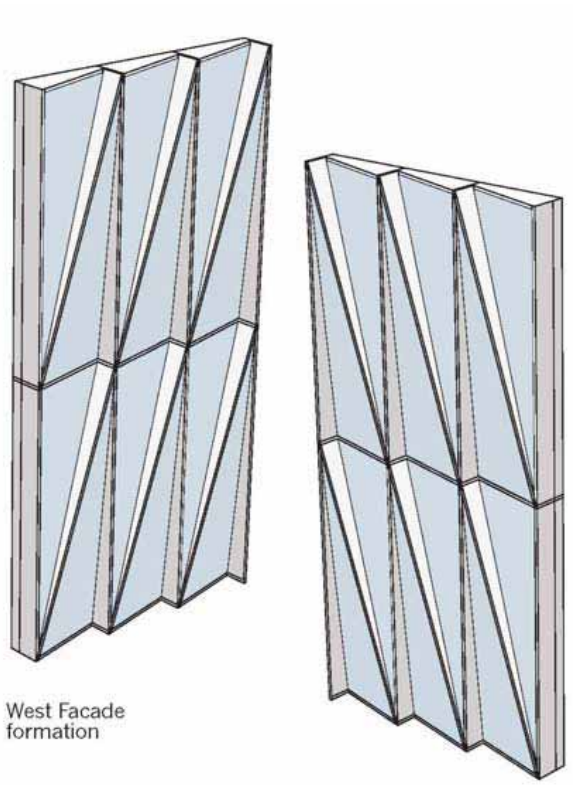






The JTI Building

High Performance Glass



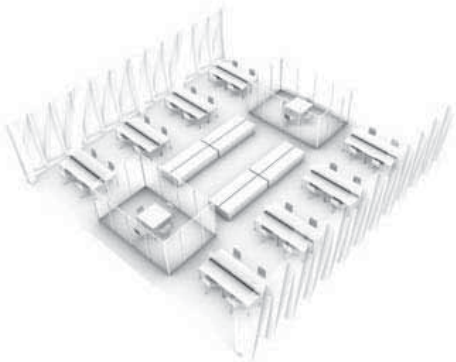
West Facade formation

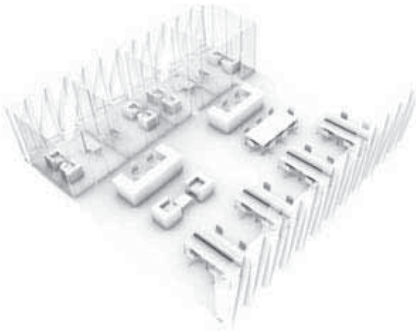
The JTI Building

High Performance Glass

The JTI Building

From Urban Design to Interior Design



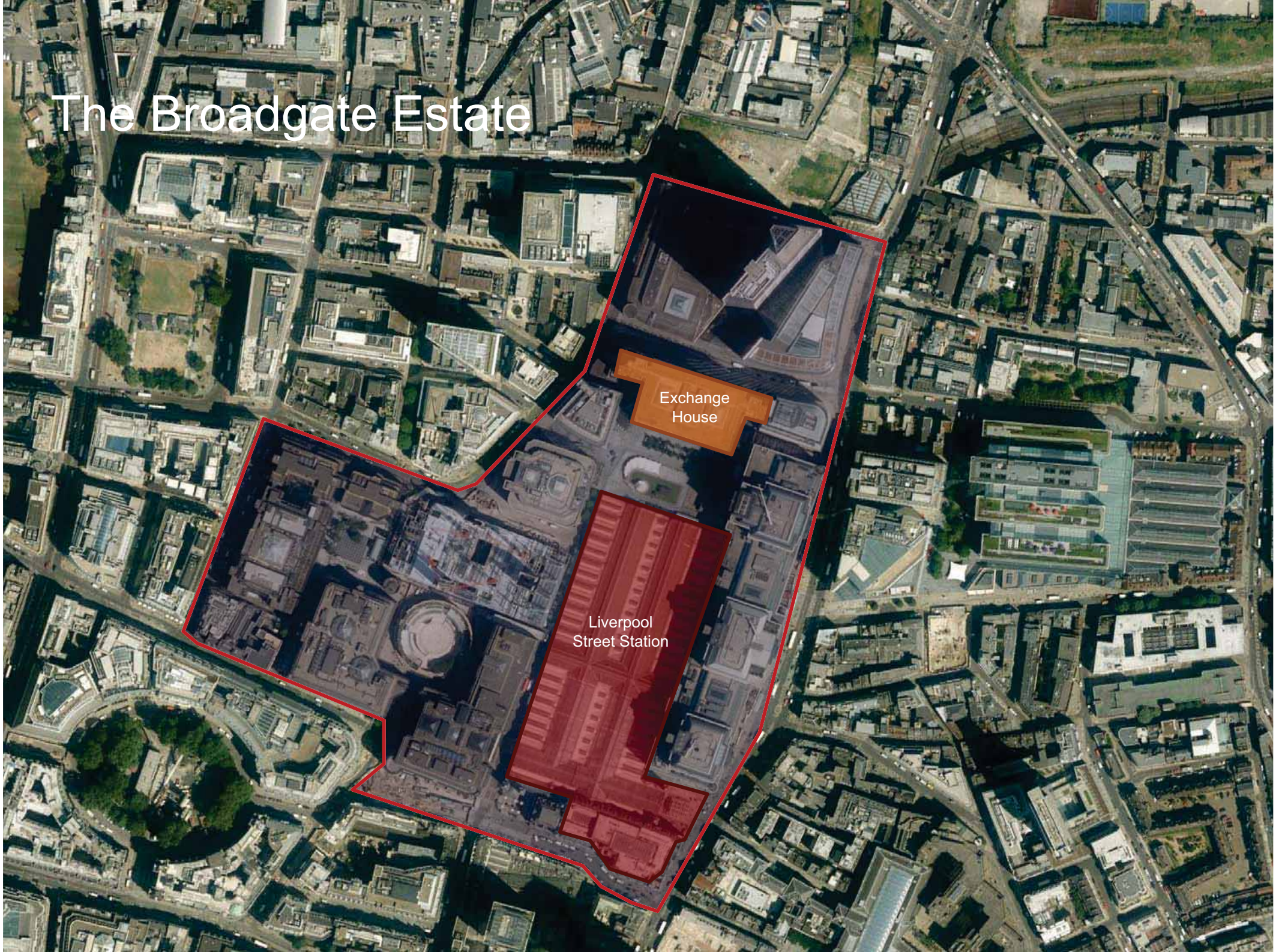


SOM

Case Study 3:

Broadgate, London

The Broadgate Estate


The Broadgate Estate
Exchange House
Liverpool Street Station

Exchange House

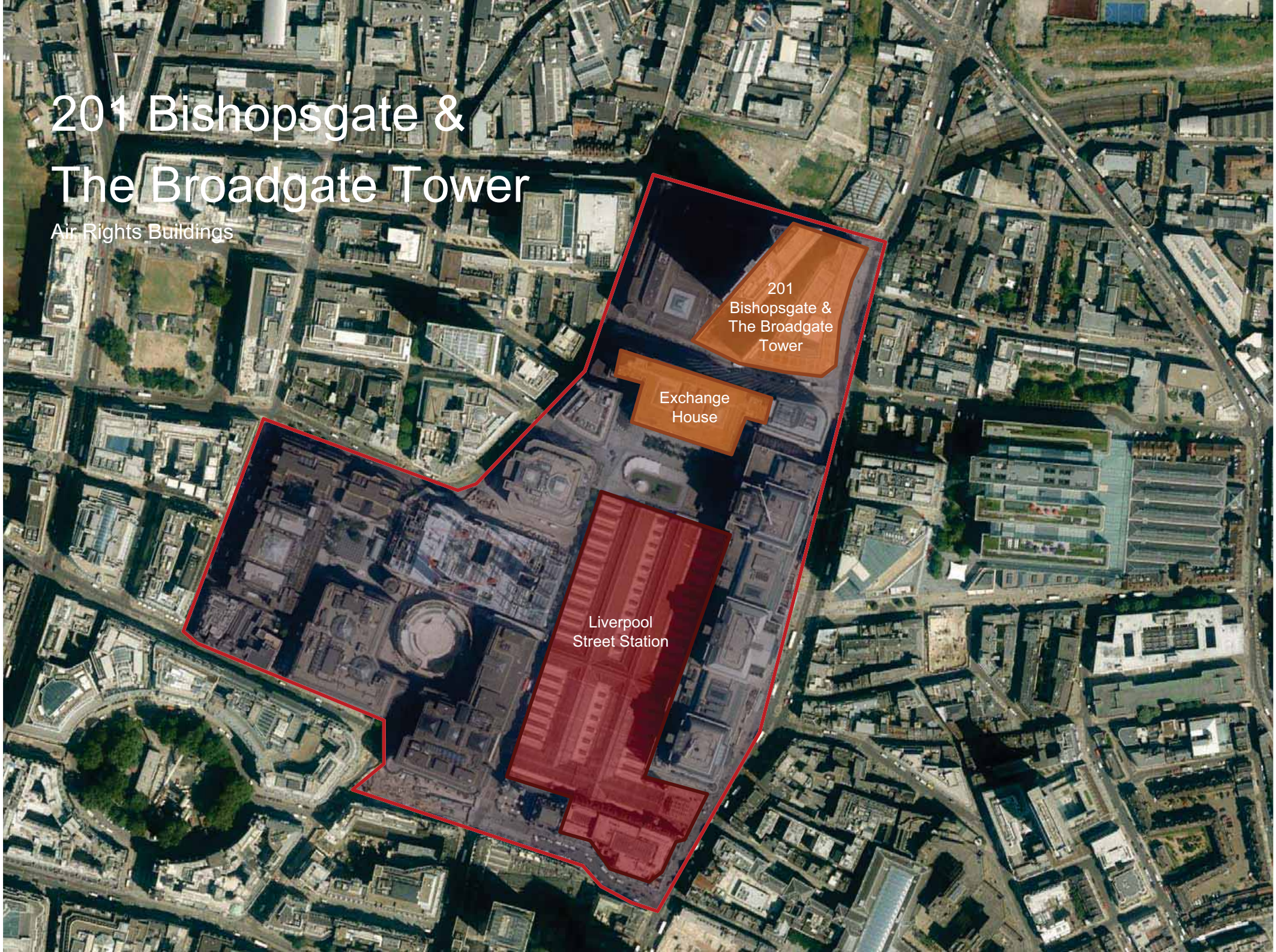
A Bridge Building

Exchange House

A Bridge Building

201 Bishopsgate &
The Broadgate Tower

Air Rights Buildings


201 Bishopsgate & The Broadgate Tower
Air Rights Buildings
201 Bishopsgate & The Broadgate Tower
Exchange House
Liverpool Street Station

201 Bishopsgate &
The Broadgate Tower

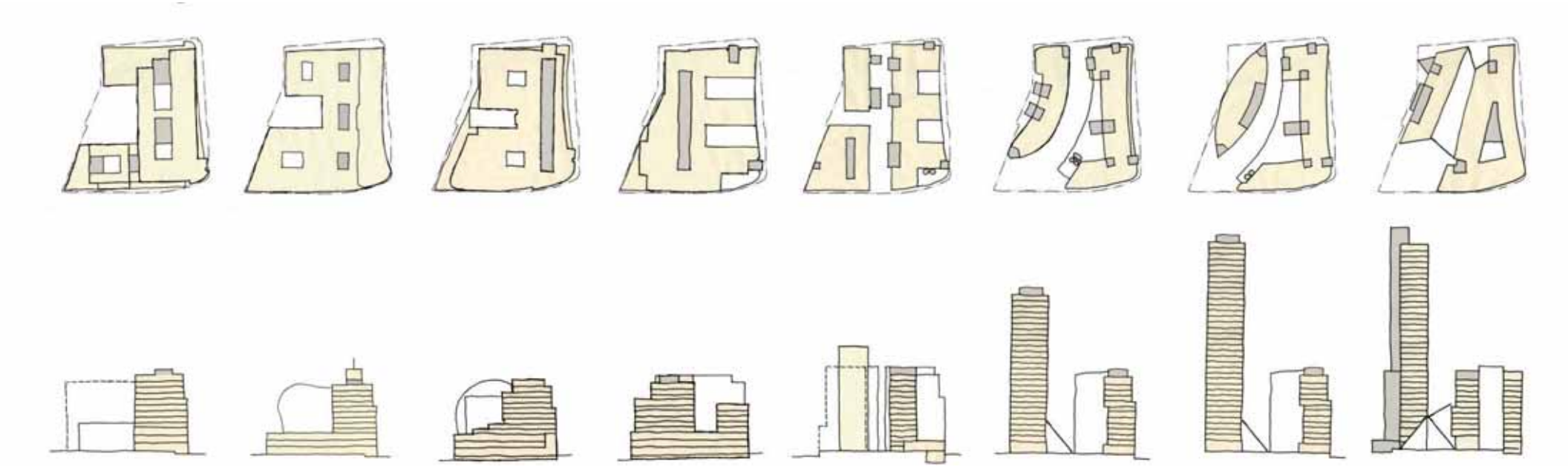
The Raft

201 Bishopsgate & The Broadgate Tower

The Raft

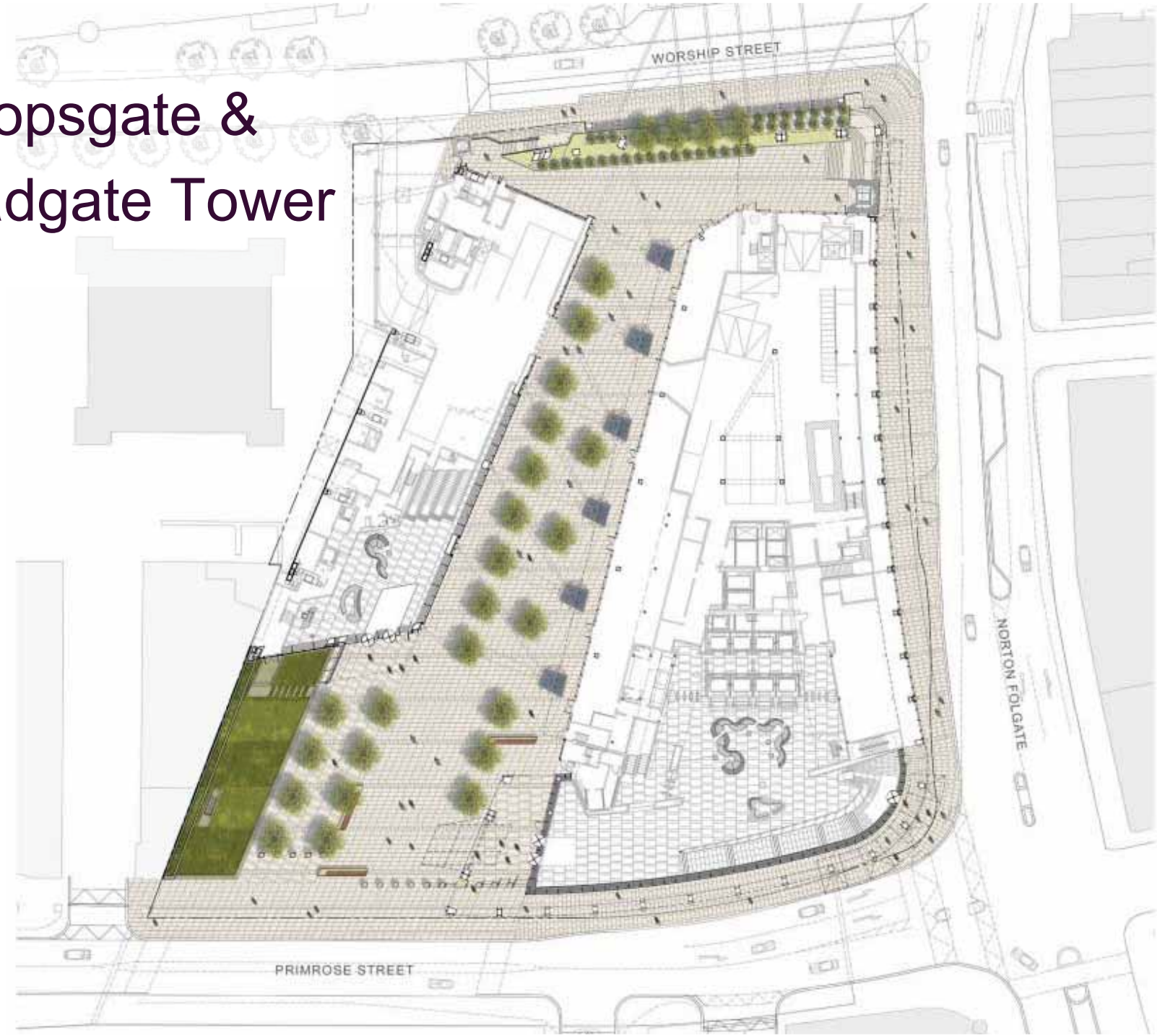
201 Bishopsgate &
The Broadgate Tower

Emerging Massing



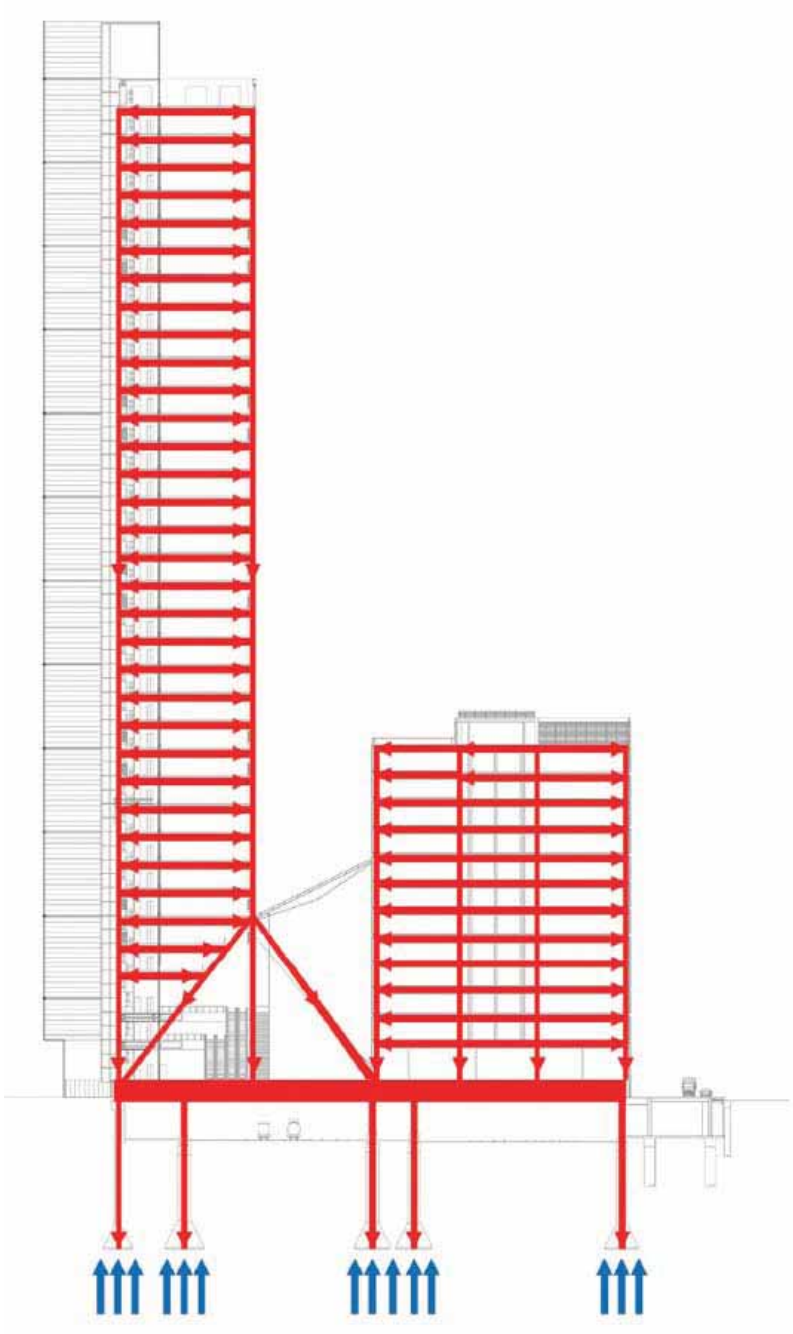
201 Bishopsgate &
The Broadgate Tower

Footprint



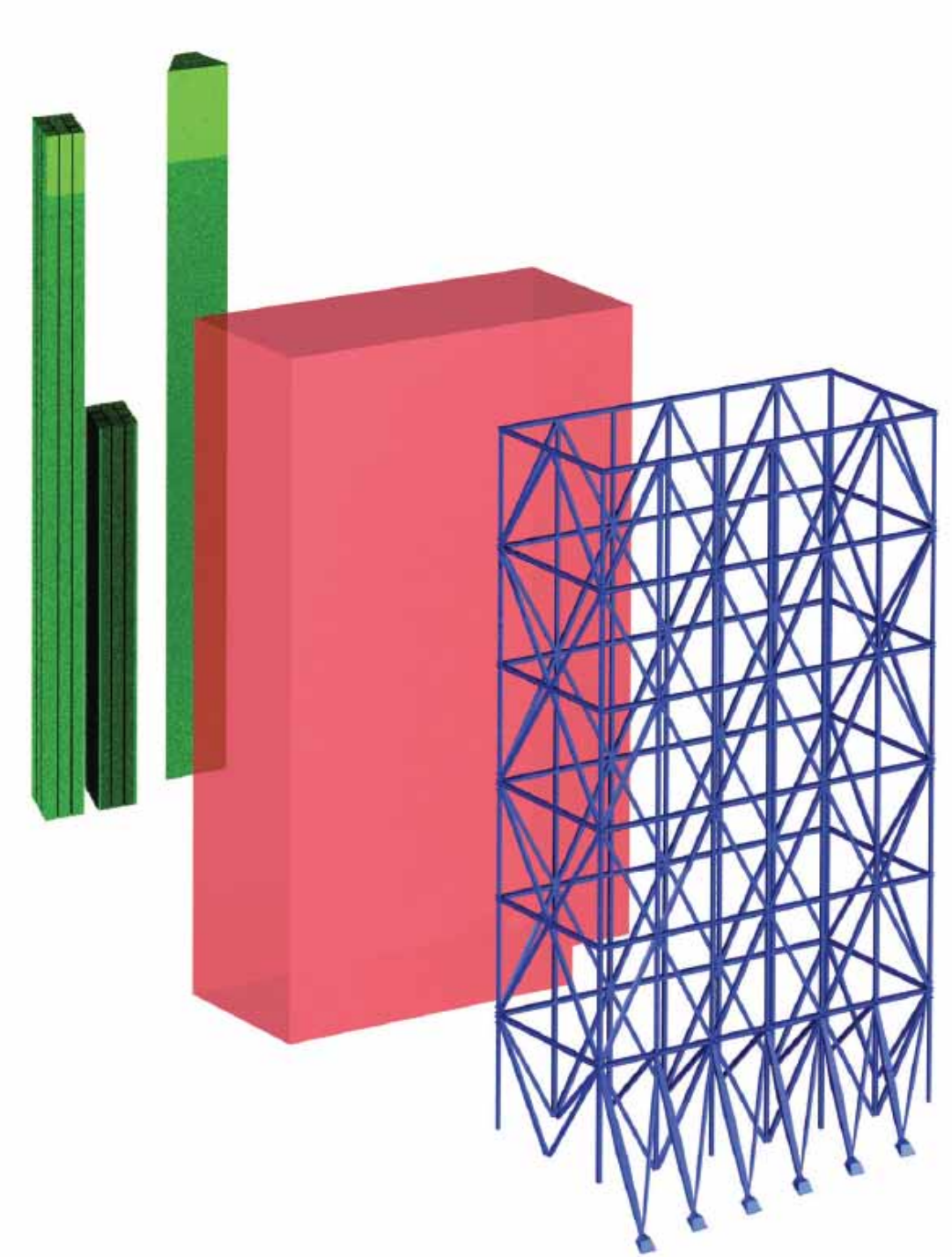
201 Bishopsgate &
The Broadgate Tower

Structural Concept



201 Bishopsgate &
The Broadgate Tower

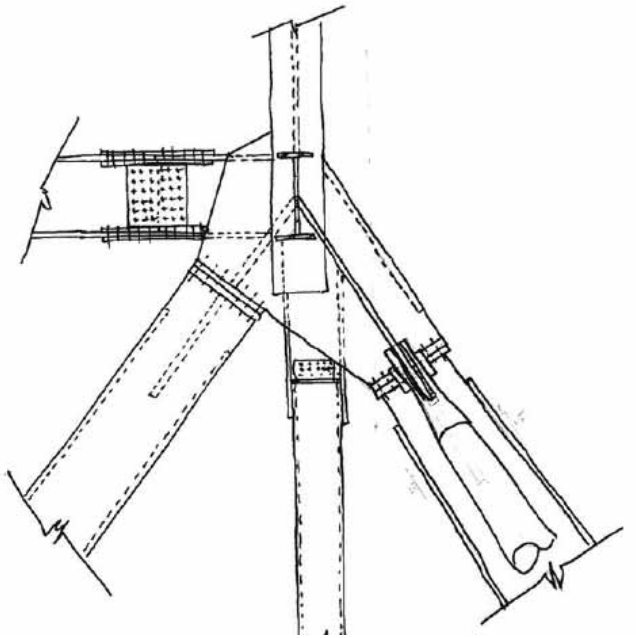
Structural Concept



The Broadgate Tower

Lift Strategy

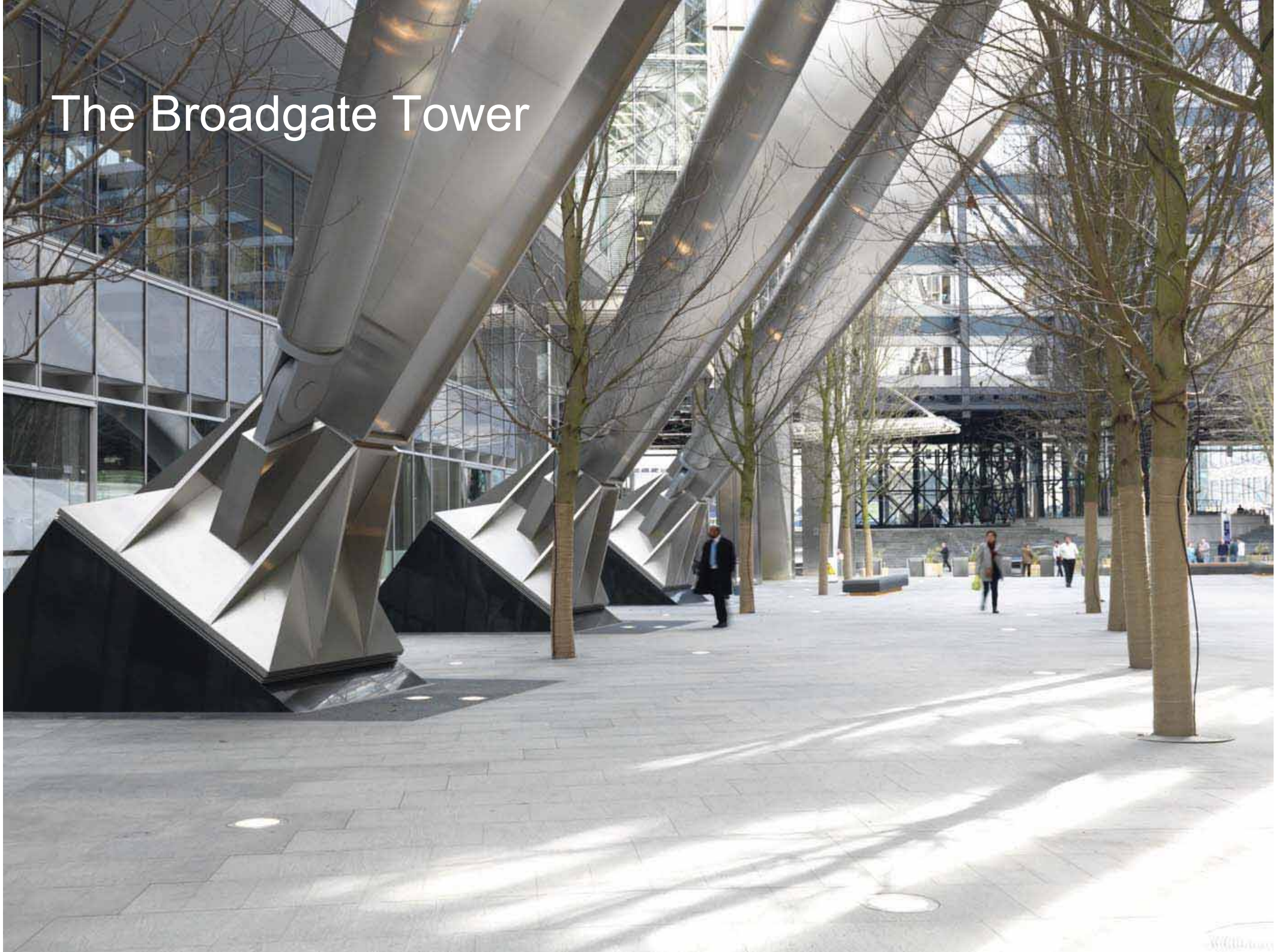
The Broadgate Tower



The Broadgate Tower


The Broadgate Tower


The Broadgate Tower


The Broadgate Tower


The Broadgate Tower

SOM

Case Study 4:

Manhattan Loft Gardens, London

Manhattan Loft Gardens

London, UK

Manhattan Loft Gardens

Design Concept

Maximum Zoning
Envelope

Maximum Zoning Envelope

Sculpting an Entrance

Maximum Zoning Envelope

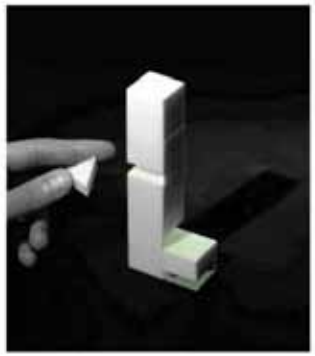
Sculpting an Entrance

Creating a community

Maximum Zoning Envelope

Sculpting an Entrance

Creating a community



Creating a sky garden

Maximum Zoning Envelope

Sculpting an Entrance

Creating a community

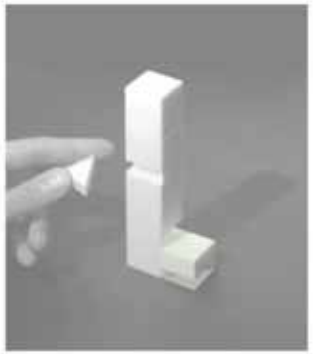
Creating a sky garden

Revealing a roof terrace

Maximum Zoning Envelope

Sculpting an Entrance

Creating a community



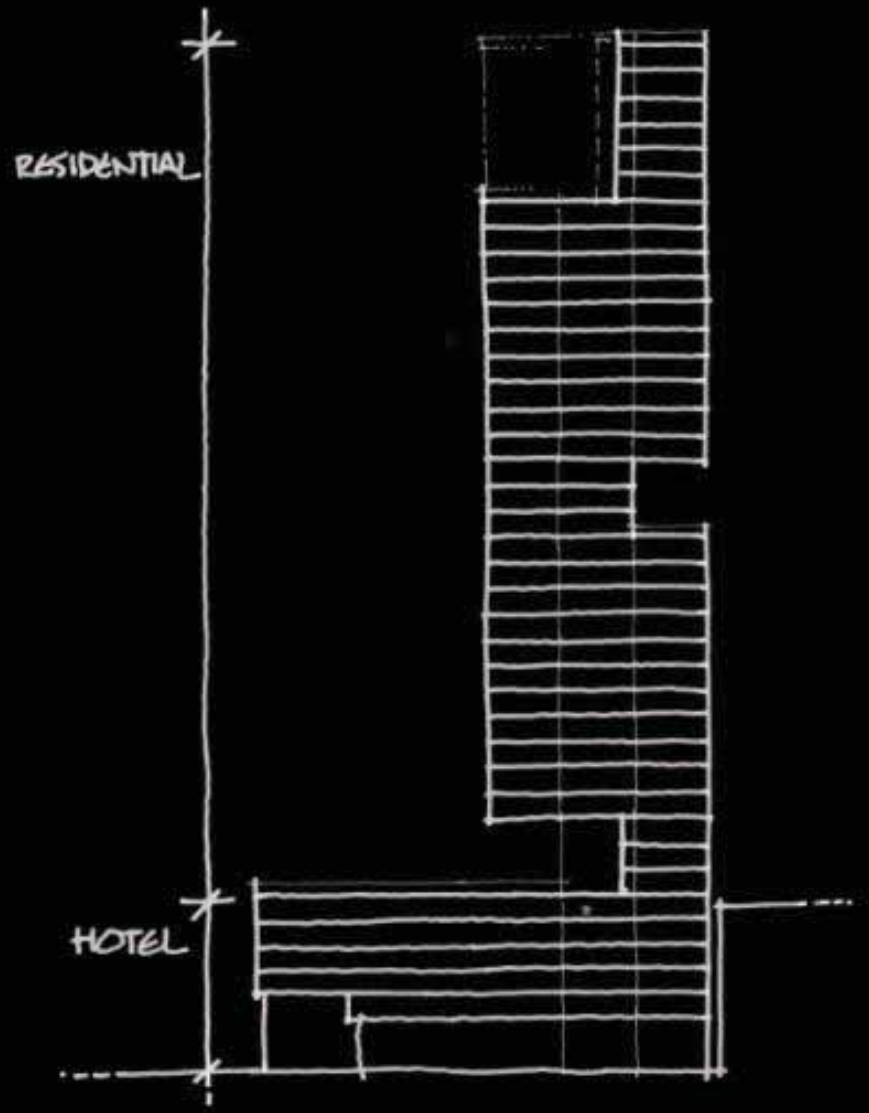
Creating a sky garden

Revealing a roof terrace

Resultant massing

Manhattan Loft Gardens

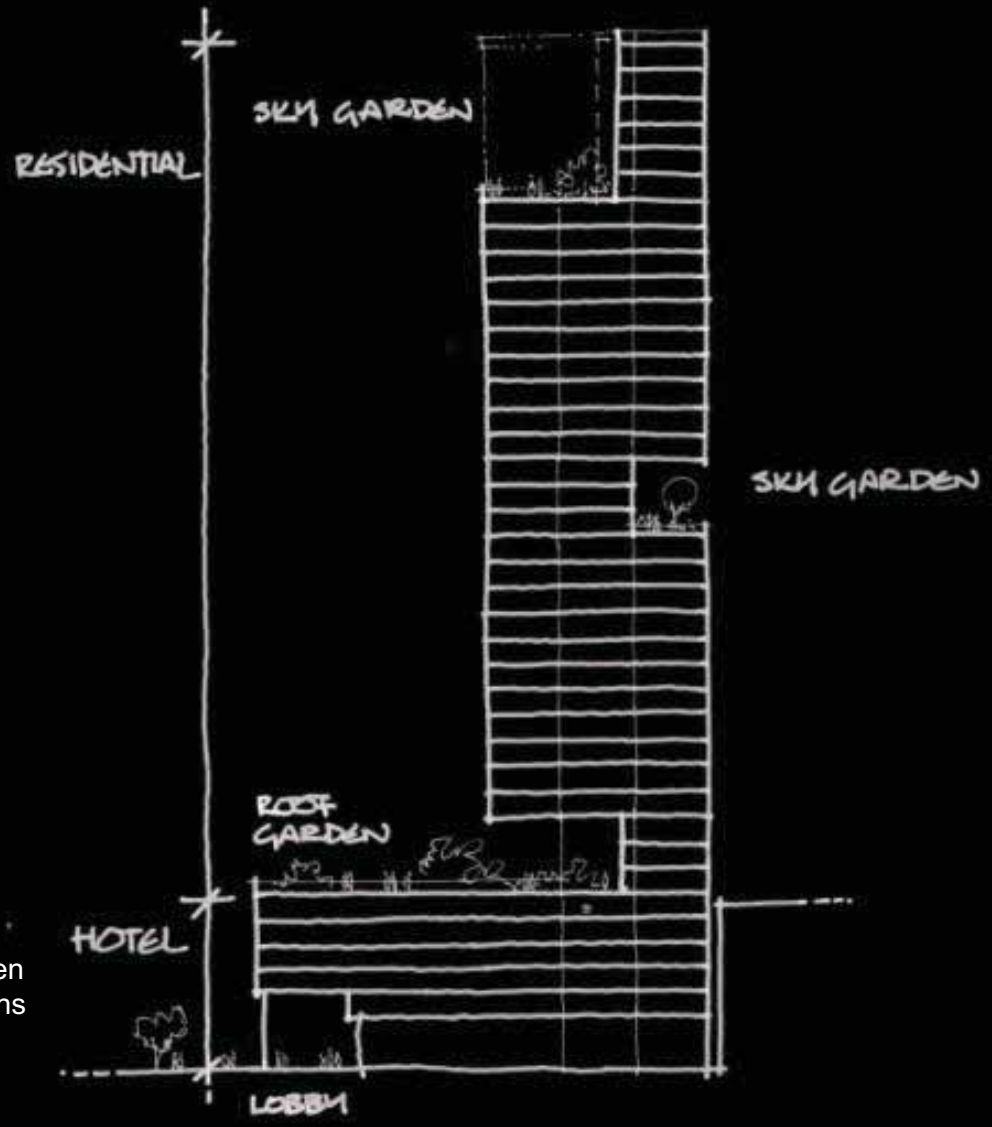
Building Structural Concept



Building form

Manhattan Loft Gardens

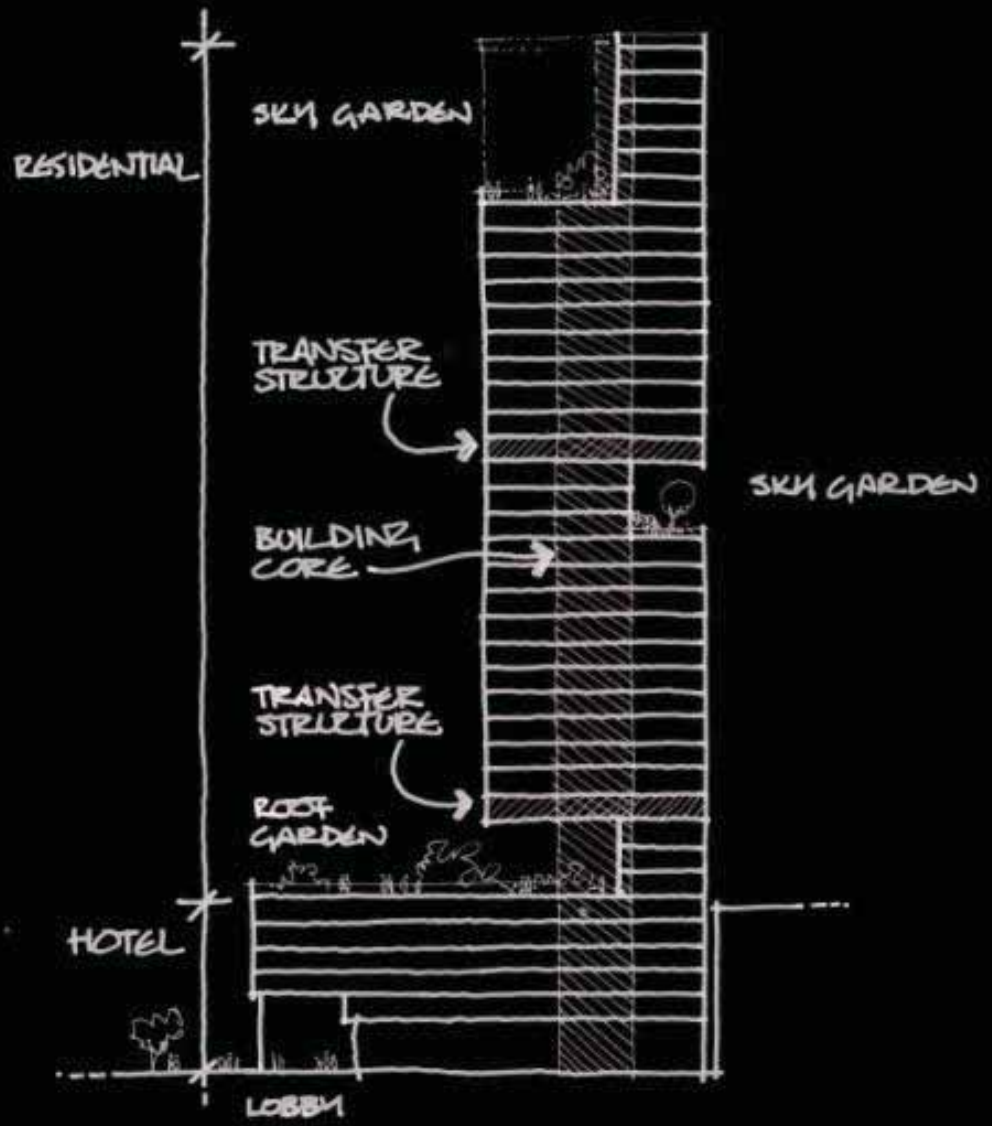
Building Structural Concept



Key spaces – Lobby
Roof garden
Sky gardens

Manhattan Loft Gardens

Building Structural Concept



Structural core & transfer floors

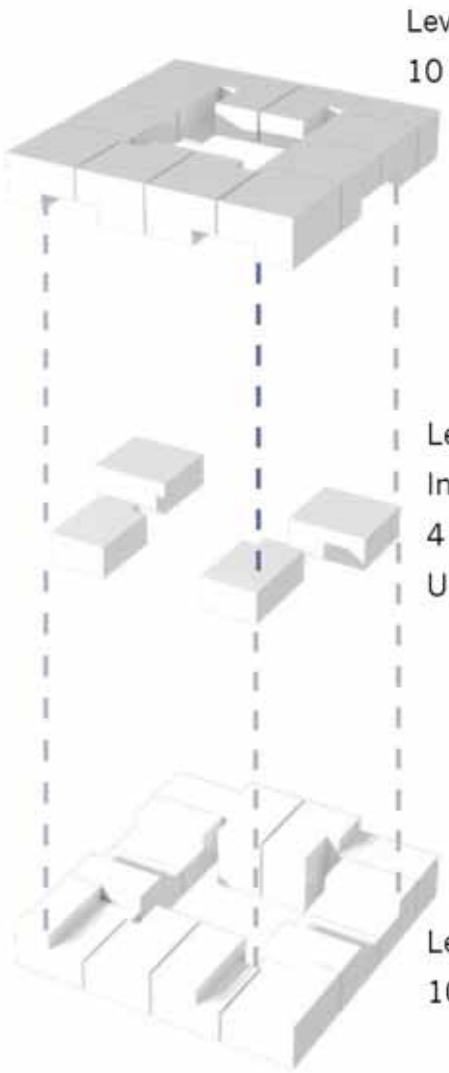
Manhattan Loft Gardens

Interlocking Apartments

Upper Level
Loft

Middle Level
Studio

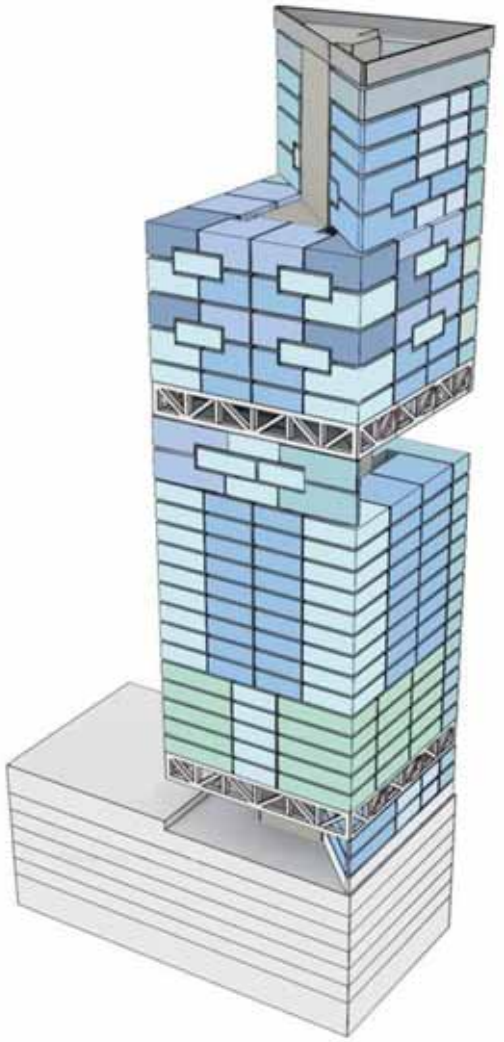
Lower Level
Loft



Level 3
10 Loft Units

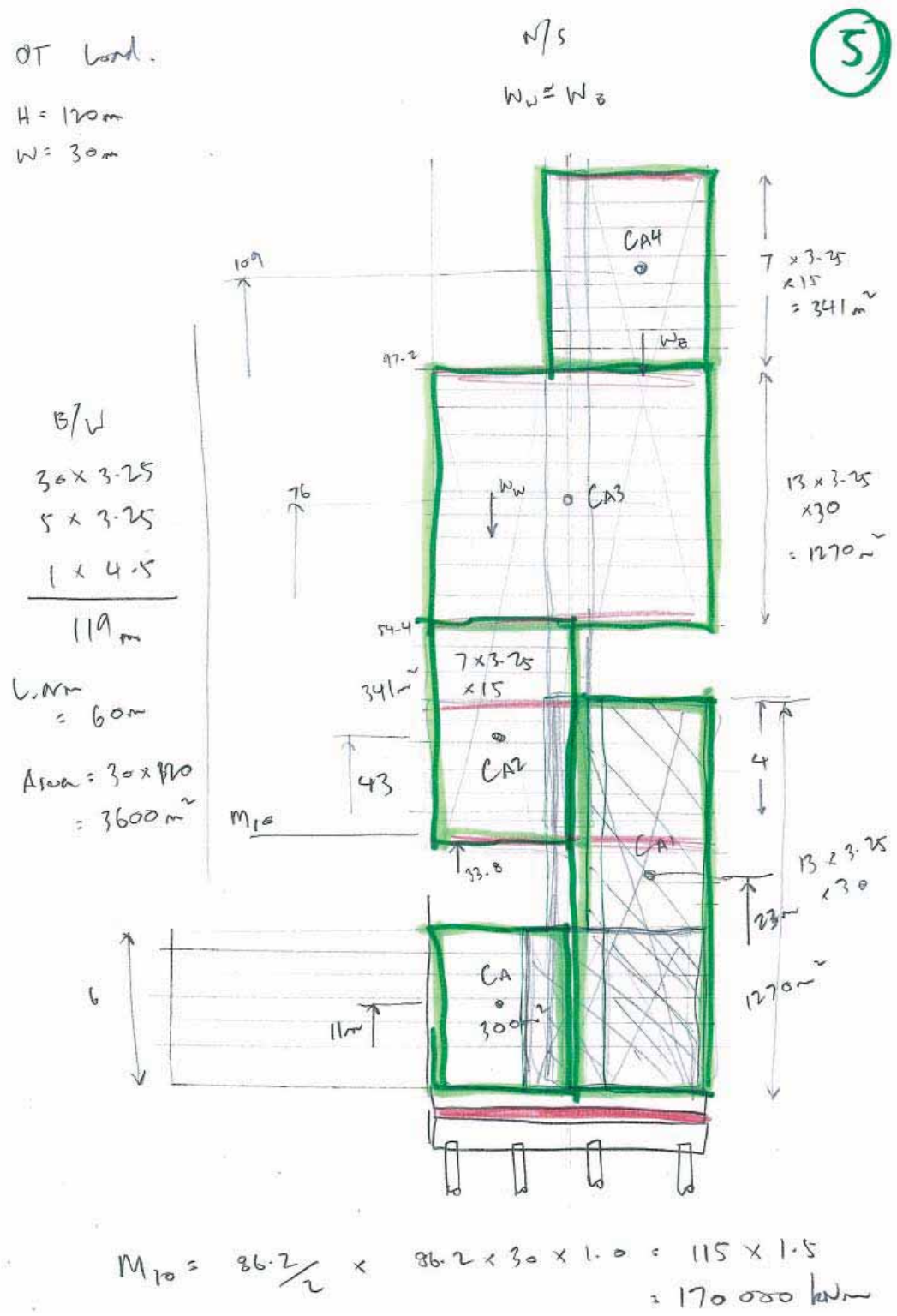
Level 2
Intersititial Units
4 Single Storey
Units

Level 1
10 Loft Units



Manhattan Loft Gardens

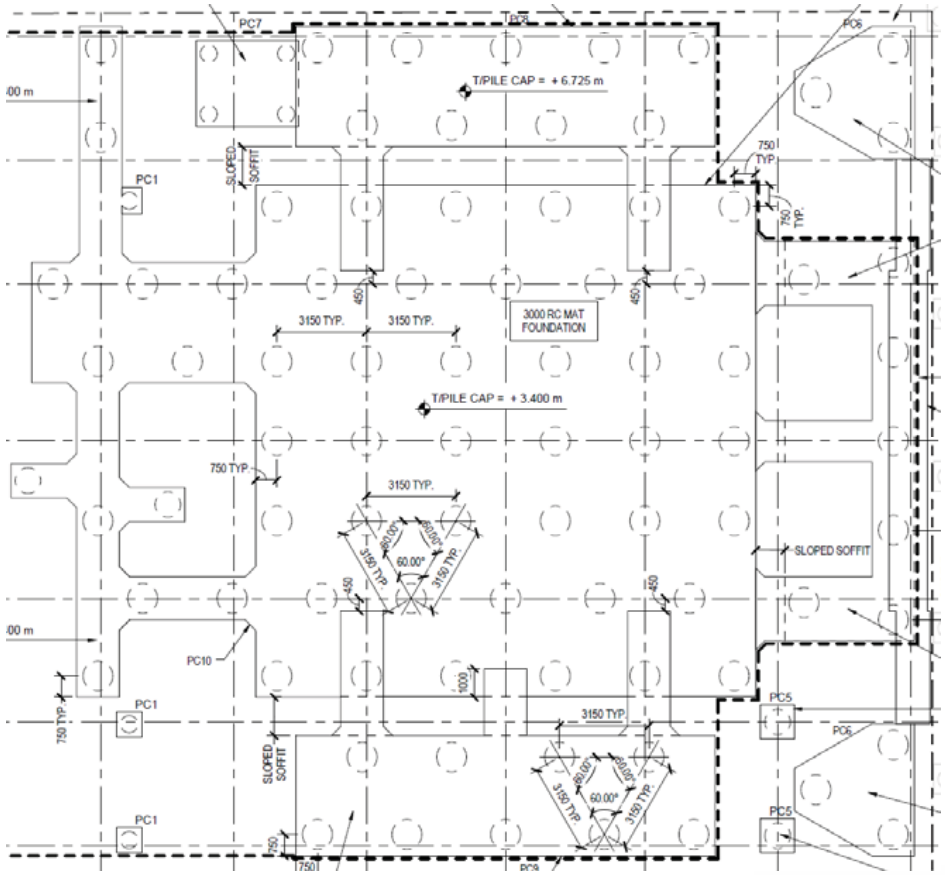
Structural Concept

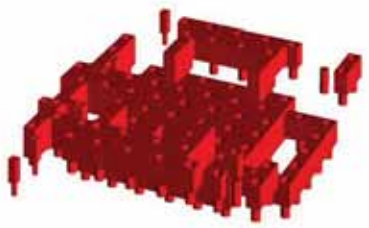


Manhattan Loft Gardens

Construction Sequence:

Piled Foundations & Basement

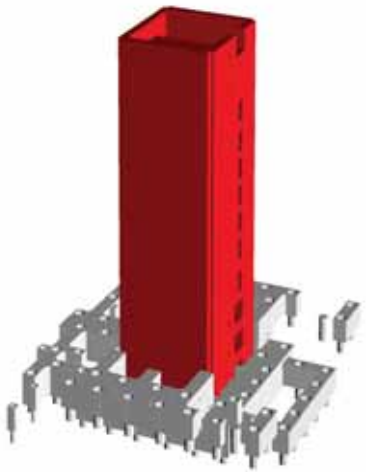




Manhattan Loft Gardens

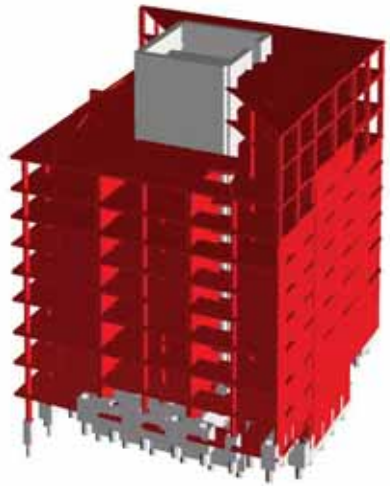
Construction Sequence:

Core & Buttress Walls



Manhattan Loft Gardens

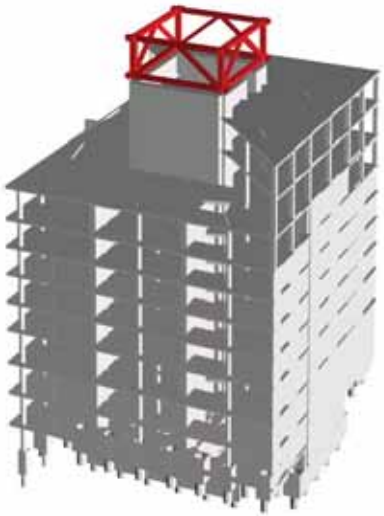
Construction Sequence



Manhattan Loft Gardens

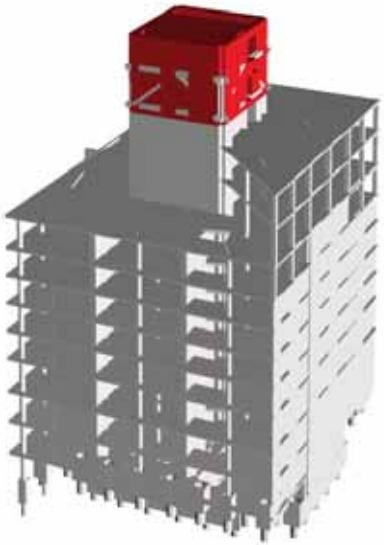
Construction Sequence:

Steel Trusses



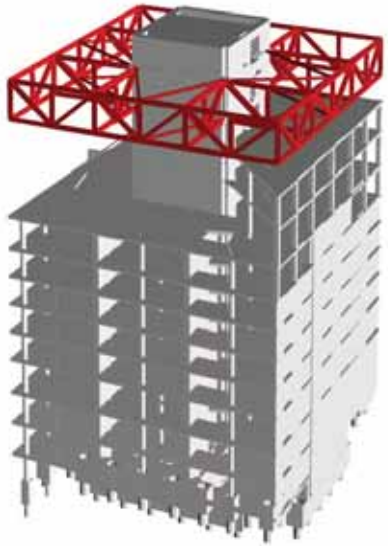
Manhattan Loft Gardens

Construction Sequence



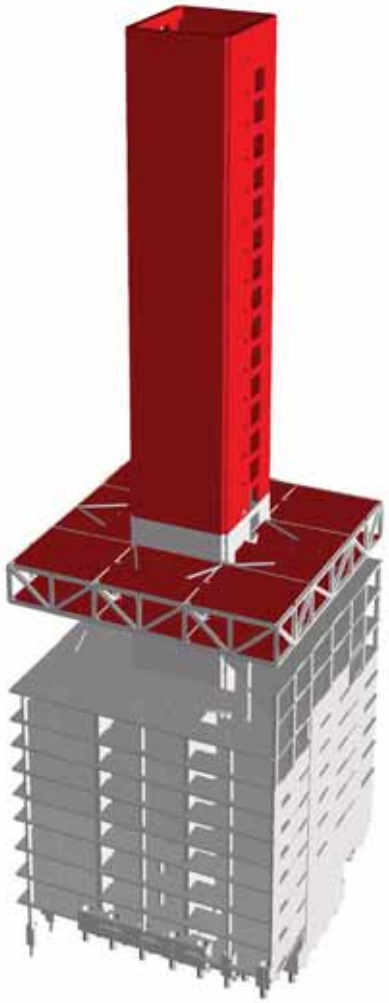
Manhattan Loft Gardens

Construction Sequence



Manhattan Loft Gardens

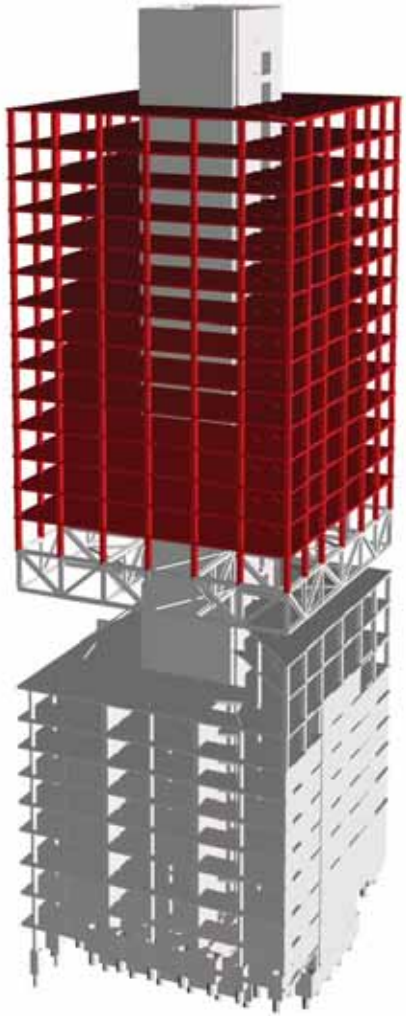
Construction Sequence



Manhattan Loft Gardens

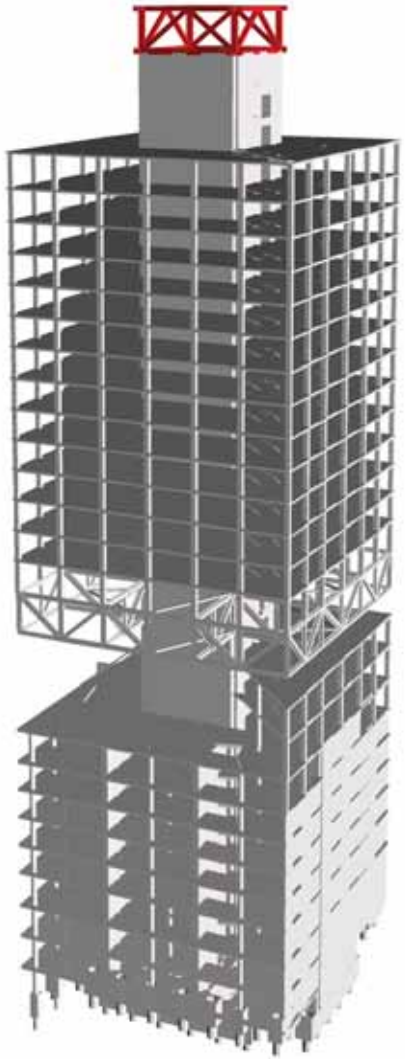
Construction Sequence:

PS Truss-supported slabs



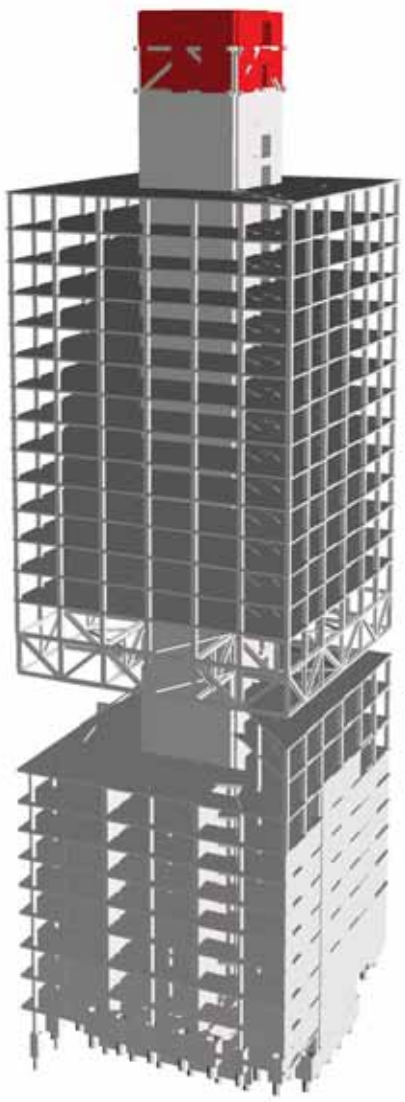
Manhattan Loft Gardens

Construction Sequence



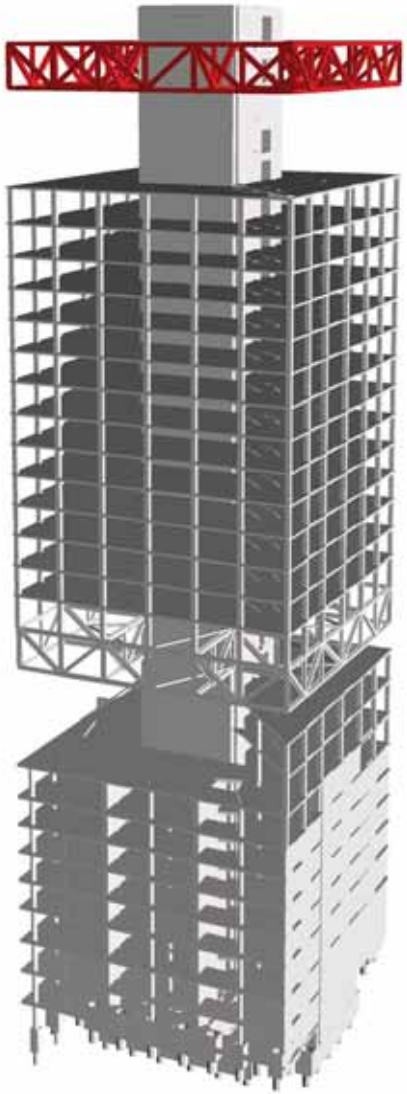
Manhattan Loft Gardens

Construction Sequence



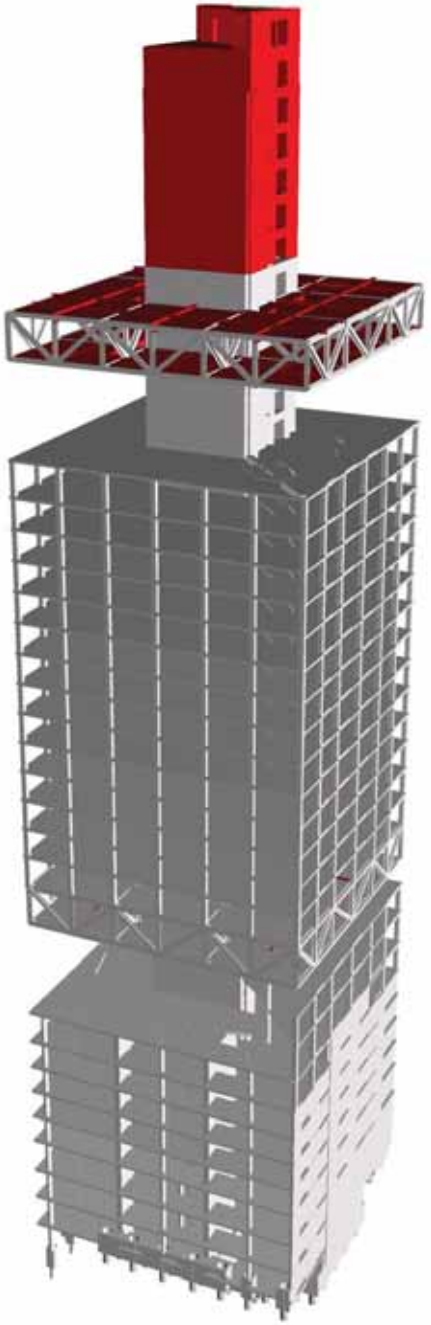
Manhattan Loft Gardens

Construction Sequence



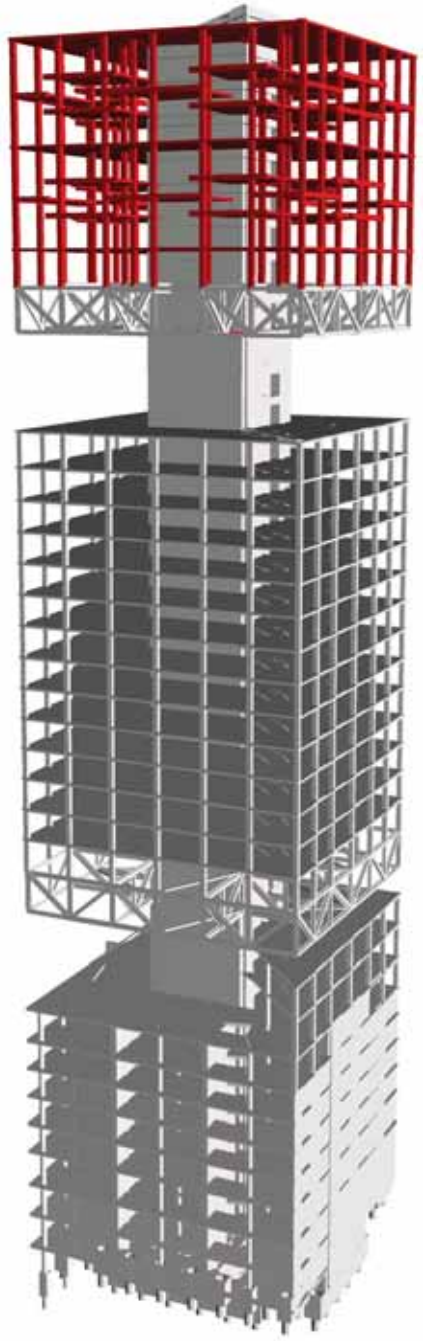
Manhattan Loft Gardens

Construction Sequence



Manhattan Loft Gardens

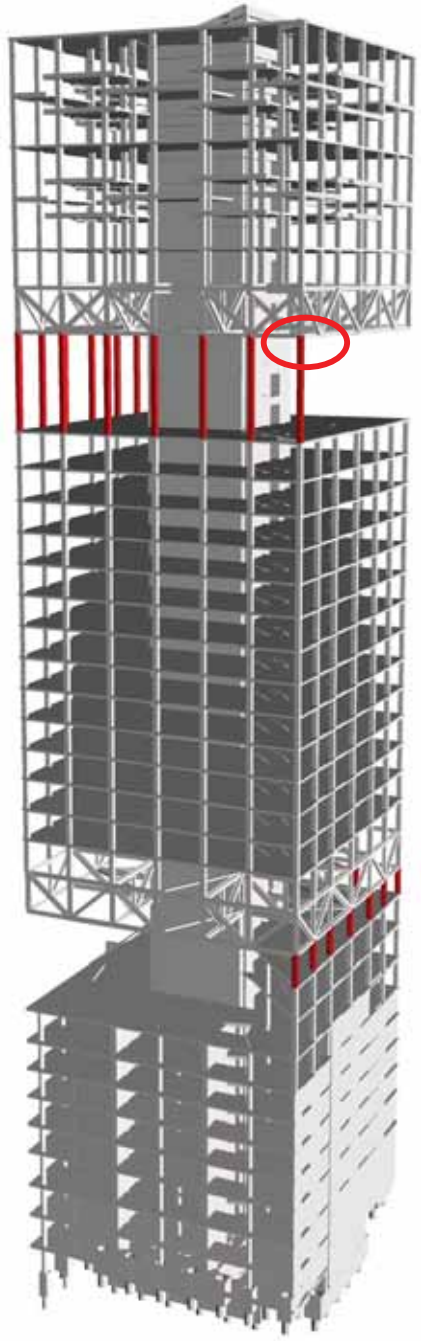
Construction Sequence

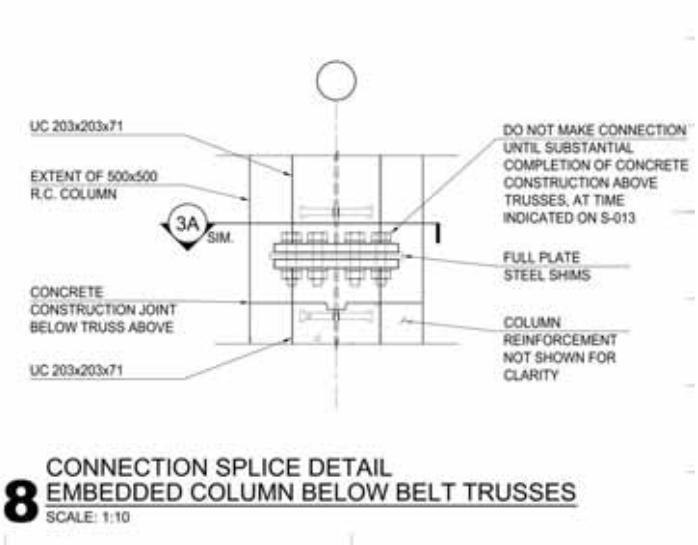


Manhattan Loft Gardens

Construction Sequence:

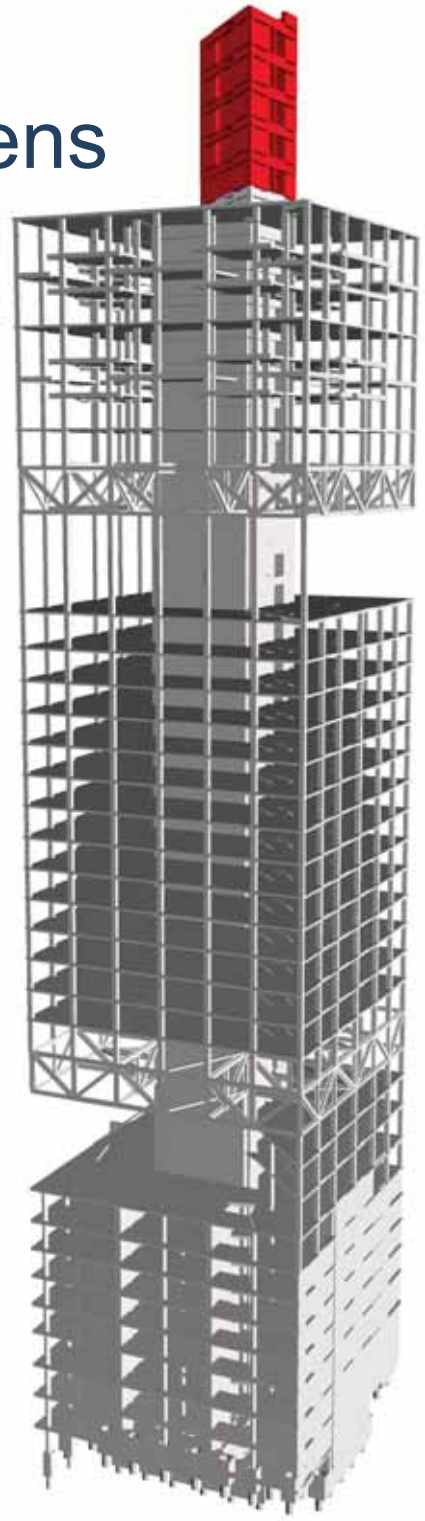
Connecting the Columns





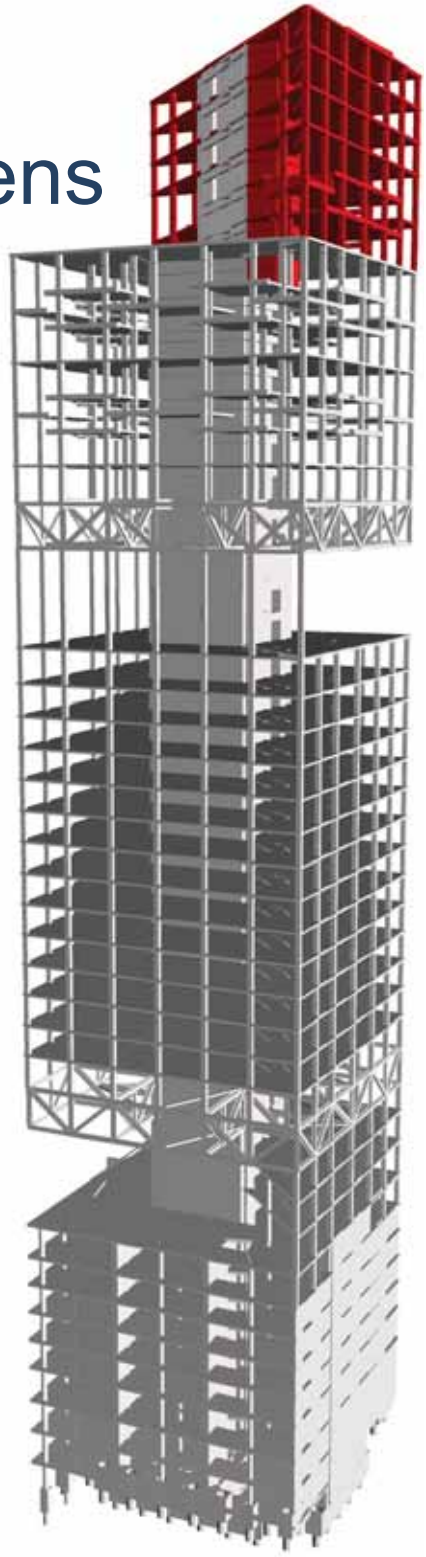
Manhattan Loft Gardens

Construction Sequence



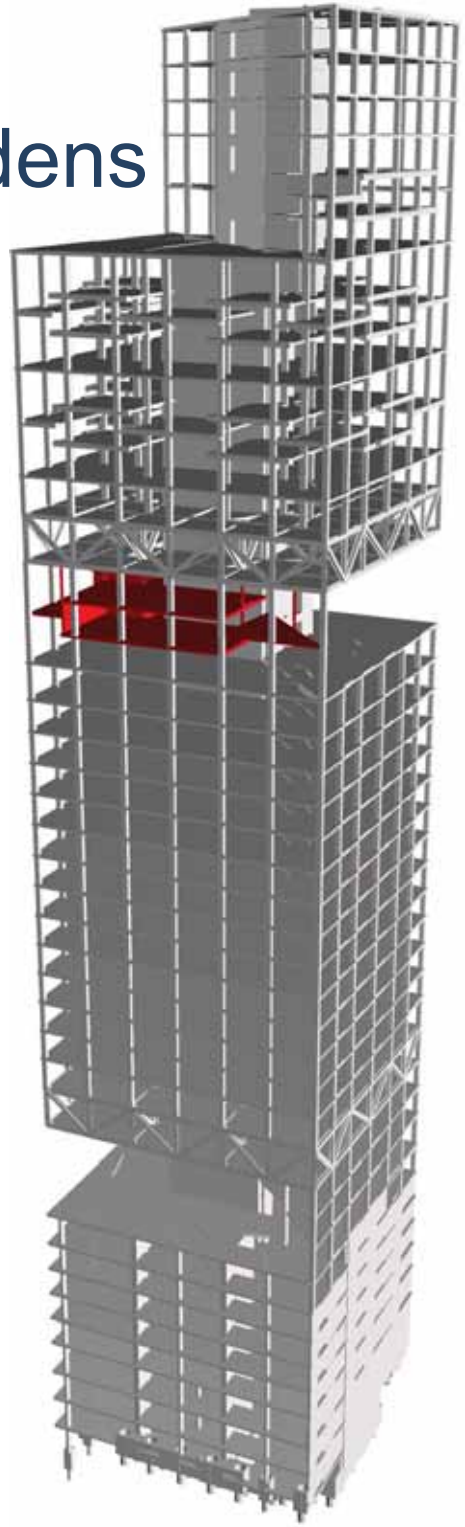
Manhattan Loft Gardens

Construction Sequence



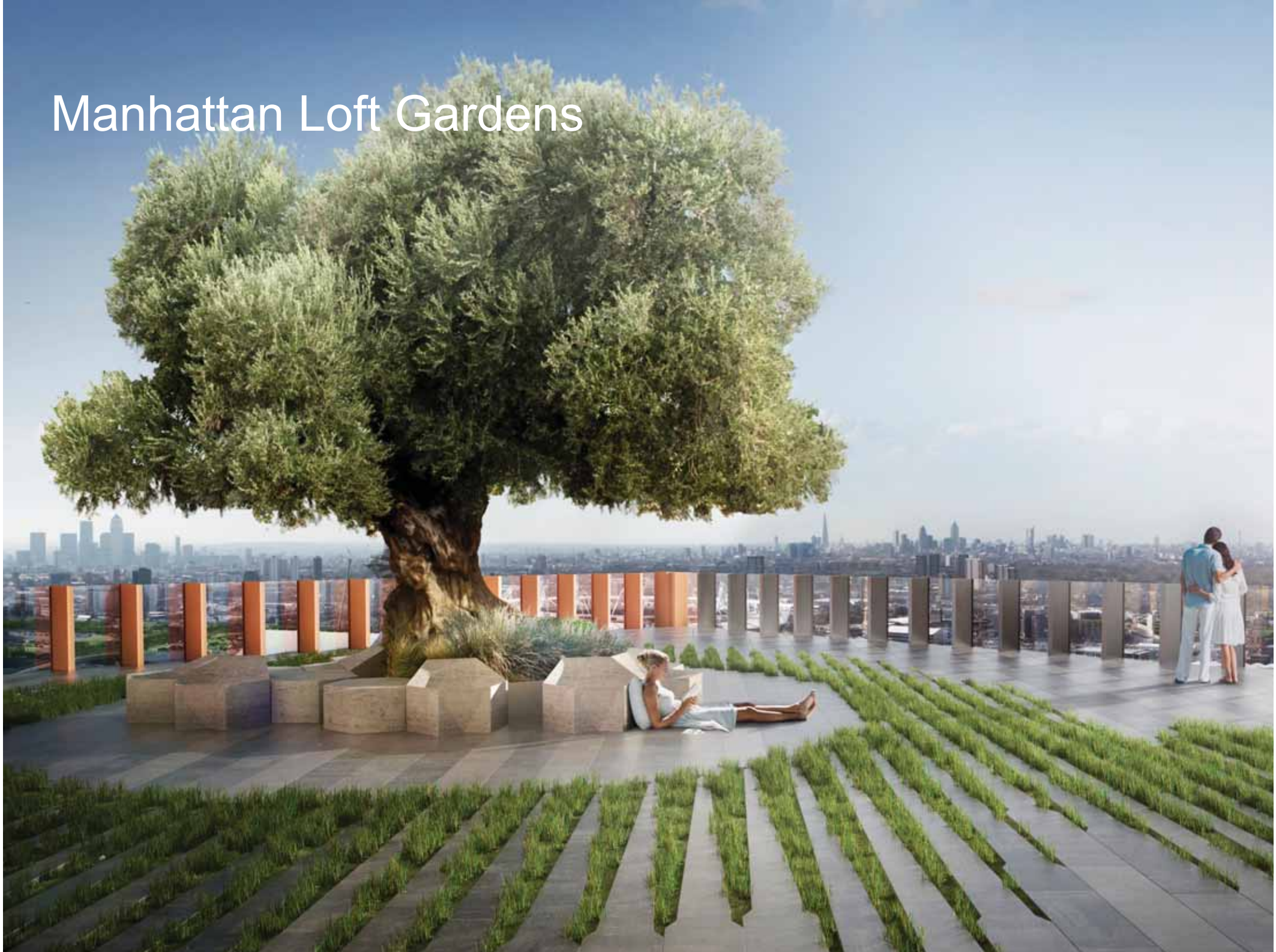
Manhattan Loft Gardens

Construction Sequence




Manhattan Loft Gardens

Manhattan Loft Gardens



SOM
Multidisciplinary Design

Kent Jackson
Design Director
June 2014