PROFESSIONAL PROJECTS

Diversified Projects Worldwide

Prithijit Majumder

Grand Theatre de Rabat

Stretching the Limits of Revit - *Zaha Hadid Project*

PROJECT BRIEF

Project Type

Theatre with 1800 seats, Amphitheatre for 7,000 person

Built Area : 27,000 m^2

Scope

Starting at the early Concept Stage design, spanning throughout the Design Development; finally producing a set of Construction Documents.

Software Usage

Rhinoceros

Grasshopper (Hummingbird)

Revit and AutoCAD

Sketchup

Navisworks

The Various Phases of BIM Development

Coordinated models across disciplines: ASMEPF –

- Architecture Shell & Core
- Architecture Interiors
- Primary Steel Structure
- Secondary structure & concrete
- Mechanical
- Electrical
- Fire

BIM support through project lifecycle –

- BIM Model Authoring
- BIM integration
- Design Models Coordination
- Documentation

Revit Model – View from Visitor’s Entry Side

Revit Model – Level 2 (Top) & Level 3 (Right) Sectional View

Revit Model – Organic Forms of the Foyer, Stairs & Point Cafe

The Grand Theater Arena

The Grand Theater Arena Internal 3D Sectional View

Revit Model – Showcasing Complex Paneling with a Lighting Cove

MEPF BIM Model

Clash Detection for Integrated Models

Design Model from Rhino to Construction Model in Revit

Complex Panel Geometries

South Buttress Building

Sections Showing Complex Concrete Profiles

Construction Package – Shop Drawings

Construction Documentation

High precision Good For Construction drawing generation

100% coordinated drawings

All annotations/dimensions generated from the model

Plans, Sections, Elevations, Details; all in sync with each other

Leverages COBie – compliant BIM data

ANANDA DEVELOPMENT PUBLIC COMPANY LIMITED

BIM IMPLEMENTATION PROJECT

Ideo Mobi Sukhumvit 66 - BIM Pilot Project 1

Amenities & Facilities

Terrace Amenities & Facilities

Interiors and Home Decor

Mock-up Flats Prepared

BIM Model for Conceptual Design

BIM Model for Conceptual Design

ideo
mobi
ideo
mobi
SUKHUMVIT 66

CENTURY

CENTURY

ANANDA DEVELOPMENT PUBLIC COMPANY LIMITED

BIM IMPLEMENTATION PROJECT

ASHTON ASOKE - BIM Pilot Project 2

ASHTON

ASHTON

ASHTON
ASOKE

ASHTON
ASOKE

ASHTON
ASOKE

ASHTON
ASOKE

ASHTON
ASOKE

BROADWAY MALYAN

NINE ELMS MIXED USE

Sainsbury Regeneration Project

Exit
Pedestrians crossing

Elevation - N2 Lower
1 : 100

N2-2
1 : 100

N2-8
1 : 100

Balcony panels subject to change pending final structure.

Plan of N2 Cladding - Level 24
1 : 100

Plan of N2 Cladding - Level 20 to 23
1 : 100

Plan of N2 Cladding - Level 17 to 19
1 : 100

Plan of N2 Cladding - Level 14 to 16
1 : 100

Plan of N2 Cladding - Level 11 to 13
1 : 100

Plan of N2 Cladding - Level 07 to 10
1 : 100

Balcony panels subject to change pending final structure.

Plan of N2 Cladding - Level 02 to 06
1 : 100

NOTES

3D View of Elevation N2 (Lower)

No.	Description	Date

BroadwayMalyan

Architecture Urbanism Design

Client
Barrat London

Project
Nine Elms Sainsbury's Redevelopment

Description
Block G - North Elevation - N2 Cladding Panels and Windows / Door Assemblies

Status
Tender

Scale	Drawn	Date
1 : 100@A0/B0		25.04.2014

Job number	Drawing number	Revision
29234	A-G-21-002	C

Cladding Panel and Window / Door Assemblies - Elevations.

Plan of W2 Cladding - Level 21 to 25

Plan of W2 Cladding - Level 15 to 20

Plan of W2 Cladding - Level 10 to 14

Plan of W2 Cladding - Level 06 to 09

Plan of W2 Cladding - Level 03 to 05
1 : 100

Elevation W2
1 : 100

W2 - 2

Balcony panels subject to change pending final structure.

NOTES

3D View of Elevation W2

BroadwayMalyan™
Architecture Urbanism Design

Client
Barrat London
Project
Nine Elms Sainsbury's Redevelopment
Description
Block G - West Elevation - W2
Cladding Panels and Windows / Door Assemblies

Status
Tender
Scale
1 : 100 @42.0M
Date
05.04.2014
Job Number
20034
Drawing Number
A-G-21-021
Revision
C

Cladding Panel and Window / Door Assemblies - Elevations.

Rajasthan Government's Digital India Project

Amber Fort, Jaipur, Rajasthan, India

Scan to BIM for the whole Heritage Fort / Site

The Royal Commission for Riyadh City (RCRC)

Riyadh Metro Line 1,2,4 & 6

Designing, BIM Modelling & GFC Documentation

For Underground and Elevated Stations

DO NOT SCALE
1 3D View 1
2 3D View 2
GROUND FLOOR LEVEL
PLATFORM LEVEL
UNDERPASS LEVEL
3 3D View 3
4 EXPLODED 3D VIEW
5 3D View 4
KEY PLAN
DESIGN DEVELOPMENT
RIYADH METRO
Package 3 (Lines 4, 5 & 6)
LINE 4 - ARCHITECTURE
SHALLOW UNDERGROUND STATION (SU)
GENERAL ARRANGEMENT VIEW
STATION EXPLODED ISOMETRIC

M3-DJV-BIM-EAR00-6G1-UGS-...
Type a keyword or phrase
Sign In
Architecture
Structure
Insert
Annotate
Analyze
Massing & Site
Collaborate
View
Manage
Modify
Bentley
Modify
Select
Properties
Paste
Clipboard
Cope
Cut
Join
Geometry
Modify
View
Measure
Create
1 : 100
Click to select, TAB for alternates, CTRL adds, SHIFT unselects.
Workset1 (Not Editable)
Main Model
Editable Only

PLATFORM LEVEL

Rendered Entry-Exit Design

Options for Underground Stations

Rendered Entry-Exit Design

Options for Underground Stations

Rendered Views for Underground and Elevated Stations

NBK Group

National Bank of Kuwait Headquarters

BIM Modelling, Coordination & GFC Documentation

Façade BIM Model

King Abdullah International Gardens
Riyadh, Saudi Arabia

KAIG consists of several Botanical Gardens commissioned by the City of Riyadh as a gift to the new king, for a site to the Southwest of Riyadh. This Garden is located in the middle of an arid desert region which is intended to be a International Landmark.

Scope of work : LOD 300 BIM Models from CAD of Architecture, Structure & MEPF and Clash Detection Reports between Inter-Discipline.

Butterfly Garden

The Butterfly Garden in KAIG is the garden having Butterflies in a controlled environment so that they can live in their natural habitat.

The Aviary

The Aviary in KAIG is the facility having Birds in a controlled environment so that they can live in their natural habitat alongside with the Flora maintaining a perfectly balanced ecosystem in the middle of a Desert.

Sound and Light Garden

The Sound and Light Garden in KAIG is the facility having two circular enclosed areas where one has sound setup for plants known as Sound Garden and another one has colourful lights which can illuminate the area and enhance the ambient feel of the Light Garden.

Discovery Garden

The Discovery Garden in KAIG is the facility has lots of open spaces and lawns. This kind of places were used by the ancient Legendary Philosophers to discover new ideologies.

The Maze

The Maze in KAIG is the facility has a Maze for creating more interest for the visitors of all age groups.

Physic Garden

The Maze in KAIG is the facility has a Maze for creating more interest for the visitors of all age groups.

Quality Check

A standardized QC Process was specially implemented for this Project due to the huge scale of this Project having all disciplines in our scope.

Request For Information

RFIs were send to the Client once we had accumulated over 200+ issues where we needed further information and instructions from them.

Victory Valley Gurgaon, India

A Residential township exudes great architectural designing and indulging modern lifestyle. There is an engulfing cover of vast greenery around Ireo Victory Valley in the form of a Central Garden, and themed gardens.

Victory Valley P1, Gurgaon, India

Victory Valley P2, Gurgaon, India

Please feel free to connect with me to discuss and understand possible innovations in BIM which can be used as value addition for any Institutions.

Thanking you

Prithijit Majumder