



LOD 300 Landscape BIM Modeling & Streetscape Coordination for Urban Infrastructure Development

(Landscape BIM Modeling, Streetscape Design Development & BIM/VDC Coordination Services)

CASE STUDY



TECHTURE



Client : Landscape Design Consultant

Team Size : 5 No.s (BIM Engineer & BIM Coordinator)

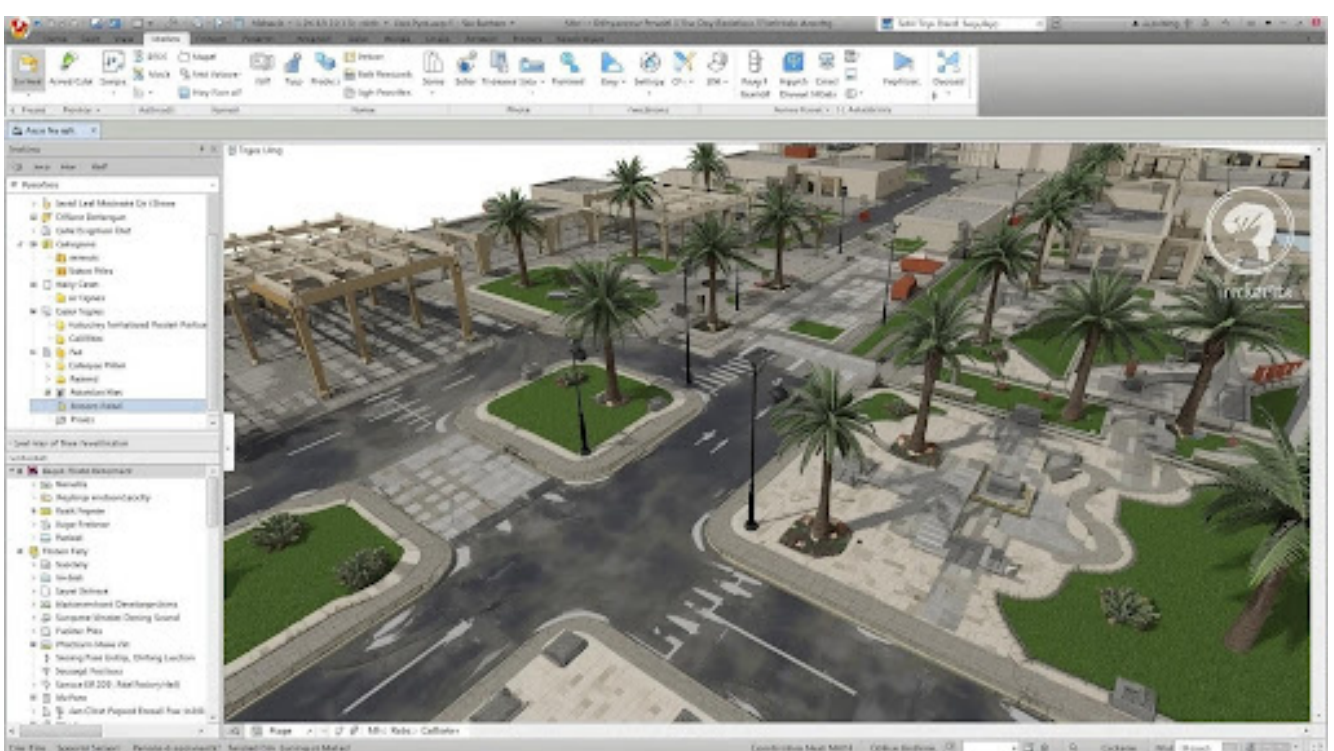
Disciplines : Landscape

Duration : 8 Month

Type : Infrastructural

Software : Autodesk Revit & Autodesk Civil 3D

Location : Dubai, UAE



Project Overview

Techture delivered LOD 300 Landscape BIM modeling and streetscape coordination for an urban infrastructure development project. The scope focused on streetscape elements including hardscape, softscape, and urban furniture across multiple design stages. Using Autodesk Revit and Civil 3D, the team ensured coordinated outputs aligned with infrastructure inputs. The solution enabled seamless transition from preliminary design to IFC/tender documentation.

Scope and Deliverables

- ❏ Develop Landscape BIM models from LOD 200 to LOD 300 across project stages.
- ❏ Model paving, street furniture, signage, lighting, pergolas & planting elements.
- ❏ Coordinate with Civil 3D infrastructure inputs and multi-disciplinary models.
- ❏ Deliver tender-stage coordinated models and documentation packages.
- ❏ Generate approx. 300 A1 sheets across preliminary, detailed & IFC stages.

Challenges

- ❏ Managing coordination between landscape and infrastructure design inputs.
- ❏ Handling large-scale documentation across multi-stage project timelines.
- ❏ Ensuring consistency across diverse streetscape components and elements.



Techture Approach

- ❏ Implemented stage-wise BIM development from preliminary to IFC level.
 - ❏ Integrated Civil 3D and Revit workflows for coordinated modeling outputs
 - ❏ Conducted continuous coordination across disciplines and design stages.
 - ❏ Delivered standardized drawings aligned with tender documentation requirements.
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Benefits

- ❏ Enabled smooth project progression through stage-wise coordinated BIM models.
- ❏ Improved design accuracy with integrated landscape and infrastructure coordination.
- ❏ Streamlined tender submission via comprehensive documentation packages.
- ❏ Enhanced execution efficiency with well-structured streetscape BIM deliverables.