

Integrated Residential Design

A Case Study from Brunswick, Maine



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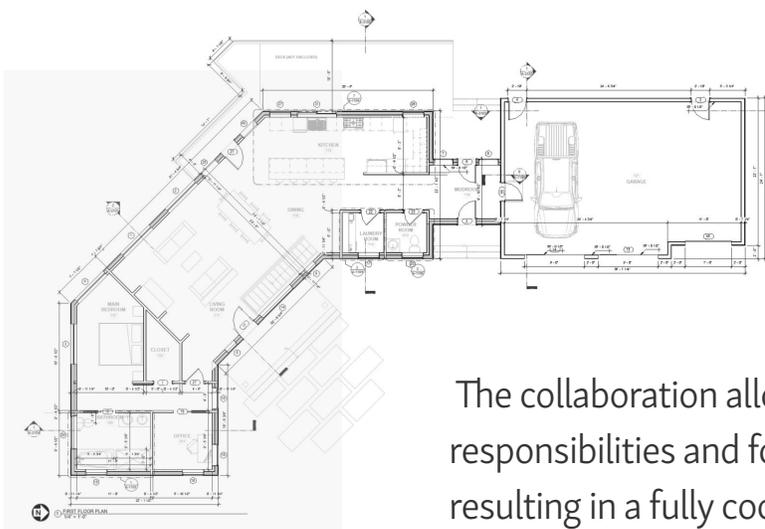
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3D Isometric View - Overall Plan

This whitepaper presents the design and coordination process behind a new 3,400 sq. ft. residential project in Brunswick, Maine. The project demonstrates how All Scope Design (ASD) supports construction firms through its remote staffing model, offering specialized architectural, structural, and MEP professionals who integrate seamlessly with in-house teams.



Floor Plan

In this project, an in-house Project Manager (PM) led the client's documentation process, while ASD's multidisciplinary team managed the full design scope.

The collaboration allowed the client to offload all technical design responsibilities and focus on client-facing and operational tasks, resulting in a fully coordinated, permit-ready package delivered on time and praised for its visual quality.

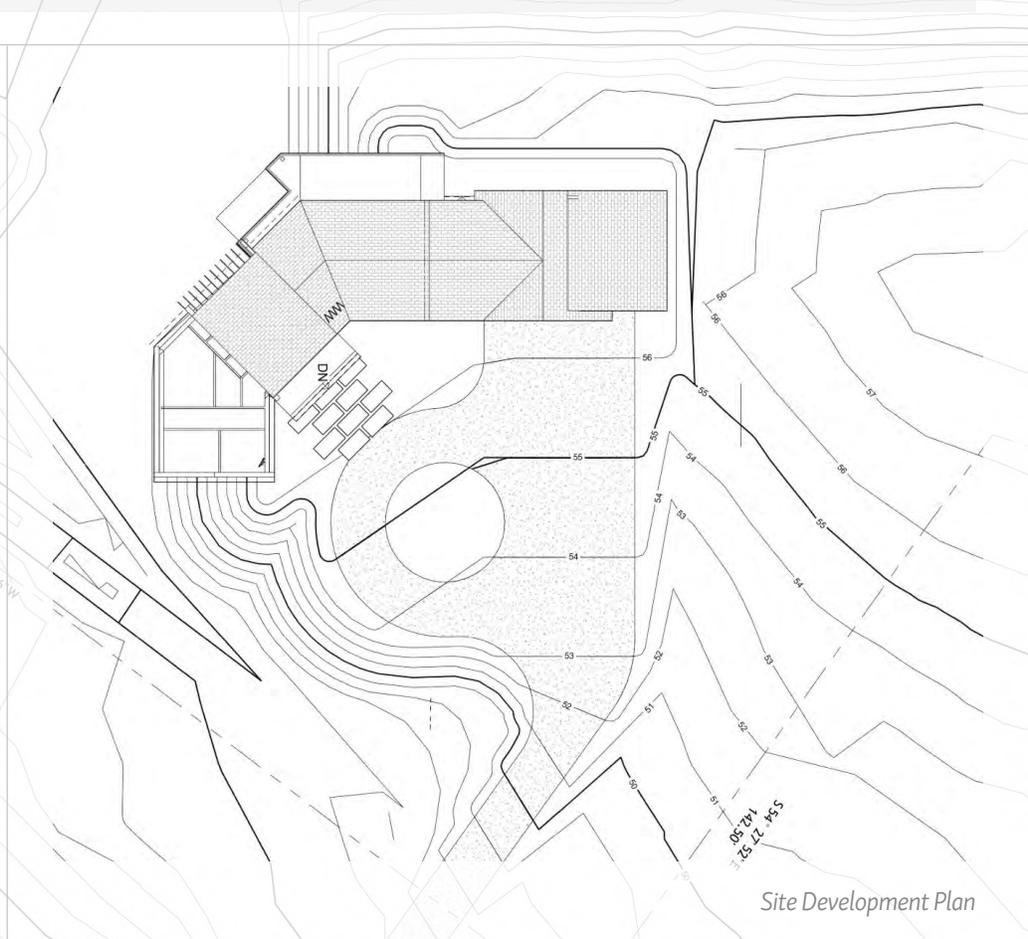
Project Overview

1.

Element	Description
Project Type	New residential construction
Location	Brunswick, Maine
Total Area	3,400 sq. ft.
Duration	3 months
Disciplines Involved	Architecture, Structural, Plumbing, Electrical, HVAC
Client Role	In-house PM coordinating ASD's team
Software Used	Revit, Twinmotion

The client sought to design a custom home but lacked the internal technical capacity to produce the complete architectural and engineering package.

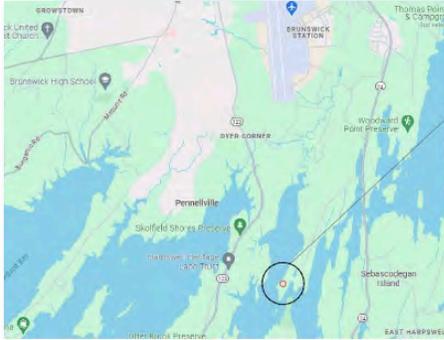
ASD provided the full design and documentation support, allowing the client to deliver high-quality plans to their end customer efficiently and confidently.



The Challenge

2.

The project presented several unique challenges:



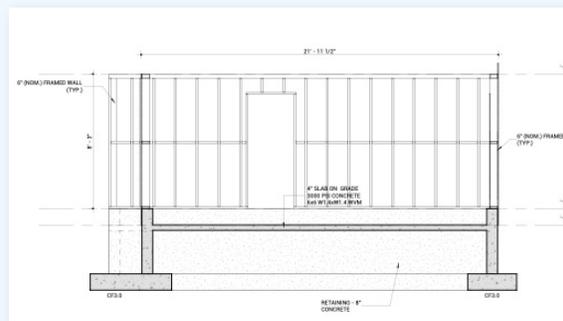
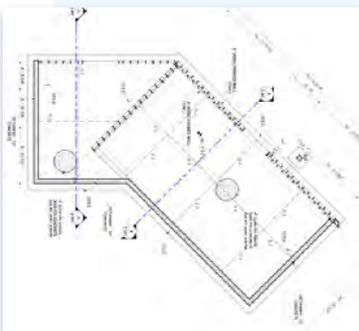
Limited base information

Initial site data and topographic surveys were incomplete.



Remote coordination

Aligning reviews between the in-house PM, the end client, and ASD's team required structured communication.



Feasibility complexities

The site's location, isolated and on uneven terrain, required custom solutions for energy supply, waste management, and foundation design.

For the client's firm, these challenges could have delayed the schedule or increased costs. ASD's involvement provided the technical depth, coordination, and problem-solving expertise needed to move forward confidently.

ASD's Approach

3.

Multidisciplinary Coordination

ASD assembled a full team covering:



Architecture



Structural



Plumbing



Electrical



HVAC design

All specialists worked under the direction of the client's in-house PM, ensuring consistent communication and transparent progress tracking.

Structured Workflow

- ✓ Weekly progress reviews and biweekly deliverables.
- ✓ Shared folders and digital collaboration tools for version control.
- ✓ Redline markups and quick sketch iterations for client-requested changes.

Communication and Quality Assurance

Weekly coordination meetings allowed proactive identification of potential conflicts between disciplines. The in-house PM acted as a single point of contact, while ASD maintained QA checks before every submittal.



Secondary Access, Lower Level

Technical Solutions

Given the irregular terrain, several ASD engineers collaborated on the foundation design, optimizing for structural stability and cost efficiency. Architectural and MEP teams coordinated closely in Revit to prevent interferences and ensure code compliance.

Results

4.



Delivery Completed within the 3-month timeline



Coordination Quality 100% integrated architectural, structural, and MEP set



Rework Rate <5% across revisions



Client Feedback Highly positive, emphasizing 3D visual quality and attention to detail



Tools Impact Revit and Twinmotion improved communication and design visualization

The project's renders and 3D structural models became standout elements for the client's presentations. The in-house PM credited the collaboration with ASD as a key factor in maintaining quality, speed, and clarity across all technical aspects.

Key Lessons Learned

5.



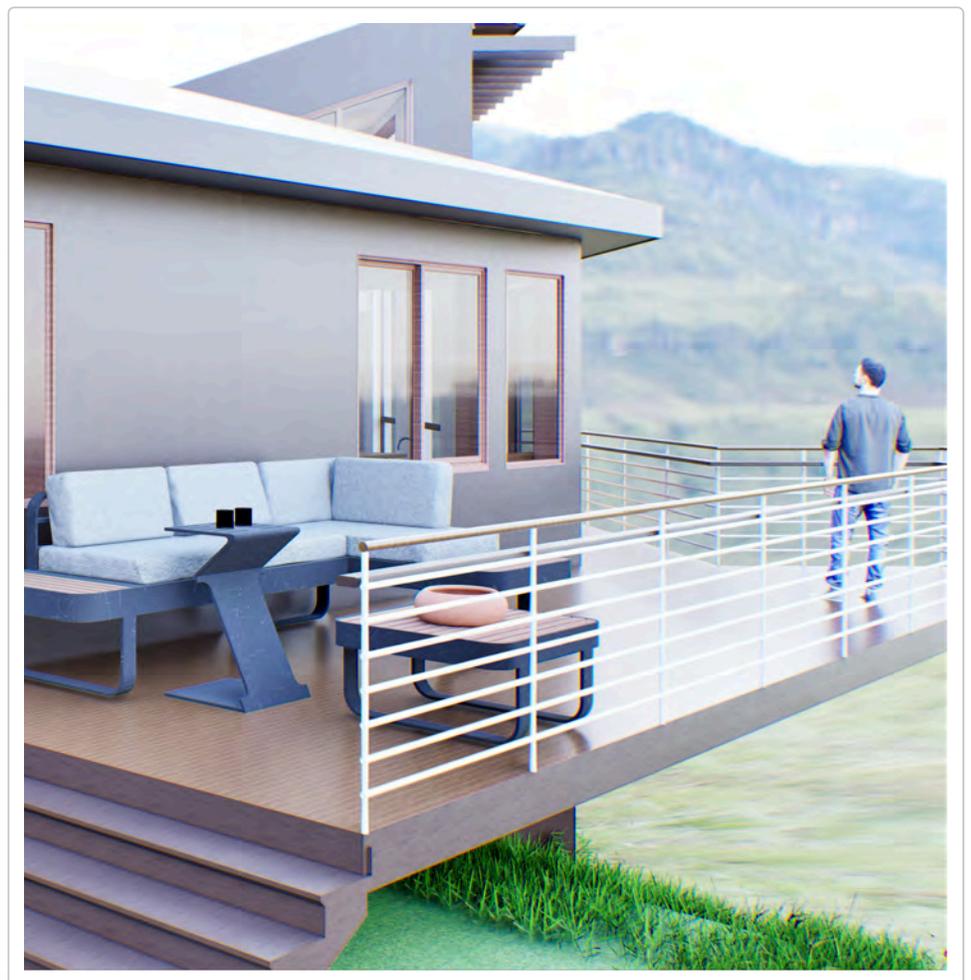
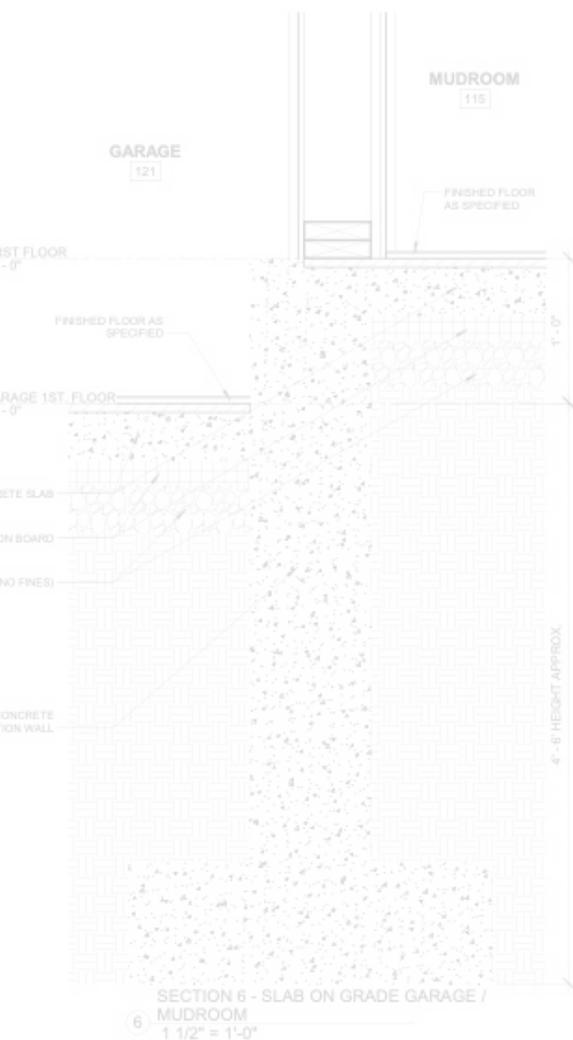
A dedicated PM on the client's side is essential for managing information flow and approvals efficiently.



Regular technical reviews between **ASD's specialists minimize rework** and coordination conflicts.



Comprehensive remote staffing can replicate (and even outperform) traditional in-house design workflows when properly structured.



Outdoor Deck

The Staffing Advantage

6.

This project exemplifies how ASD's remote staffing model enhances capacity for U.S. construction firms:



Full Integration: ASD specialists functioned as an extension of the client's internal team, reporting directly to their PM.



Technical Depth: Access to senior professionals across all disciplines eliminated the need to hire multiple local consultants.



Scalable Support: The client was able to take on more projects by offloading all design-related work to ASD's remote team.



Reduced Overhead: Staffing through ASD provided high technical quality without the fixed costs of additional in-house employees.

8 YEARS
-EXPERIENCE-

*"Having a remote design team that could **handle everything**, from architecture to MEP, allowed us to scale confidently, knowing we had a reliable technical partner behind."*



Living Room

The Brunswick residential project is a clear example of how ASD's multidisciplinary staffing approach enables small and mid-sized firms to compete at a higher level.

By integrating remote specialists who work in sync with client PMs, ASD delivers not just drawings—but complete, coordinated, construction-ready documentation that strengthens client capacity and project throughput.

8 YEARS
-EXPERIENCE-

ALL SCOPE DESIGN

We provide remote architectural and engineering design staffing for U.S. construction firms. Our multidisciplinary professionals deliver high-quality, permit-ready documentation across Architecture, Structural, and MEP disciplines.

Whether you need additional design capacity or full-scope project support, ASD's team integrates seamlessly with your workflow—helping you take on more projects, faster, and with confidence.

[Learn more at allscopedesign.com](https://www.allscopedesign.com)



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