

IOWA

Civil and Environmental Engineering







Trevor Thornburgh Project Manager



Steve Susmarski Written Report Production



David Wu Graphic Design Report Production



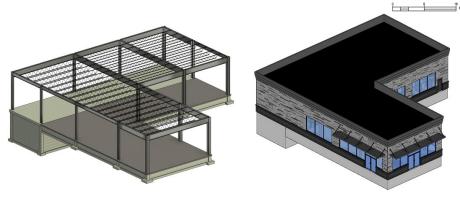
Drew Hambly Technology Services

Presentation Outline









Design & Analysis

Project Goals



Luxury Apartment Units

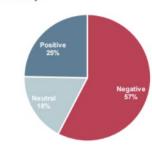


Commercial Gathering Space

Community Survey

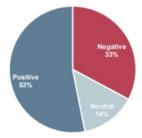
A short survey was created to gauge community sentiment, perceptions, and habits. The following is a summary of key findings from the nearly 100 surveys collected. Other key findings can are noted throughout the document.

Please offer a word or phrase that you use to describe downtown Clinton today.



Negative words: Dilapidated, empty, rundown, struggling, under-utilized, etc.
Neutral words: Limited attraction, trying, underwhelming, stagnant, potential, etc.
Positive words: Beautiful, progressive, reviving, eclectic, local, etc.

What will downtown Clinton look like about 25 years from now?
Use your own word or phrase to describe what you envision for the area



Negative words: Empty, same, abandoned, vacant, etc. Neutral words: "if" phrases, great IF we can bring in new companies, the same IF we don't we can modernize it,

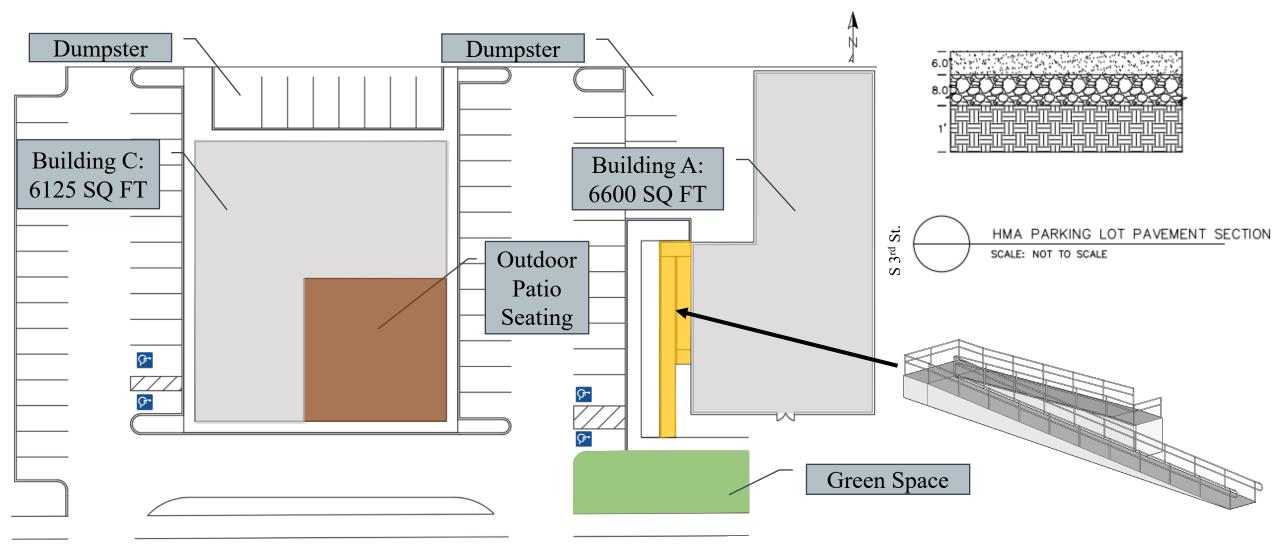
Positive words: Funky cool urban zone, vibrant, lively, updated nostalgia, full of life, a meeting place, clean and well kept, full store fronts, etc.

Existing Site

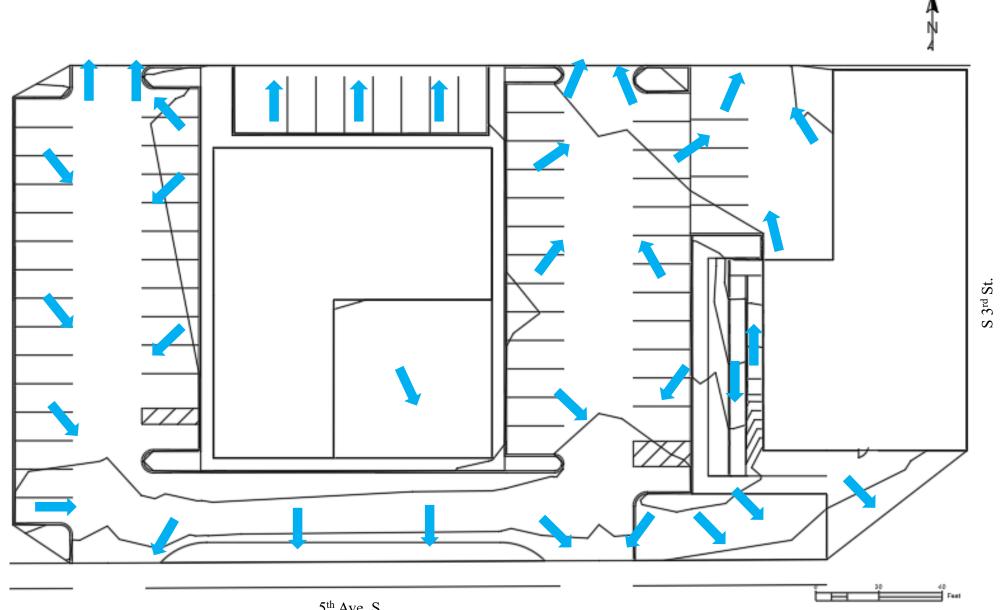
Designed Layout



Civil Design: Site Design



Civil Design: Grading Design





Architectural Design: Building A Basement



Architectural Design: Building A 1st Floor



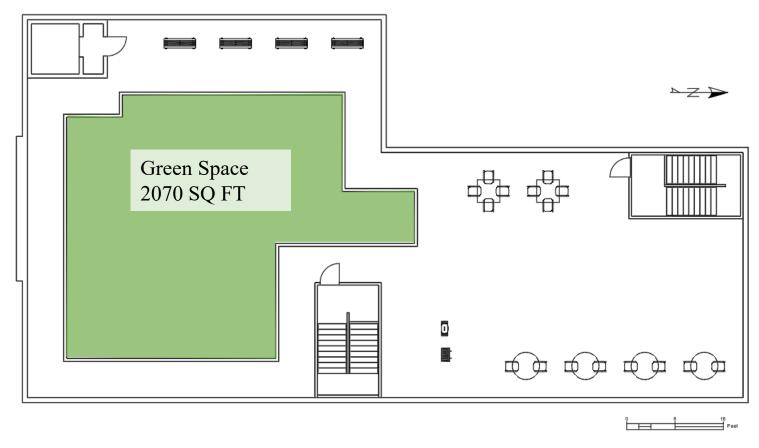
Architectural Design: Building A 2nd and 3rd Floor



Architectural Design: Interior Rendering



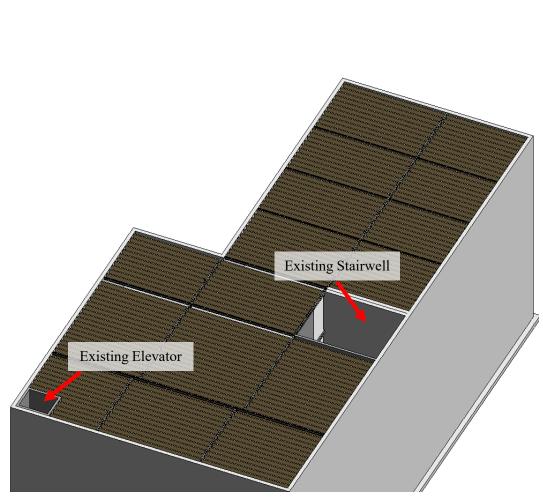
Architectural Design: Building A Roof



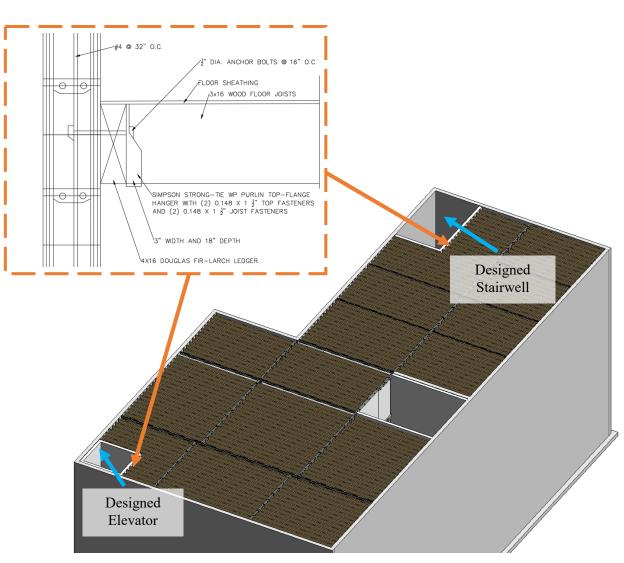


Rooftop Patio Schematic

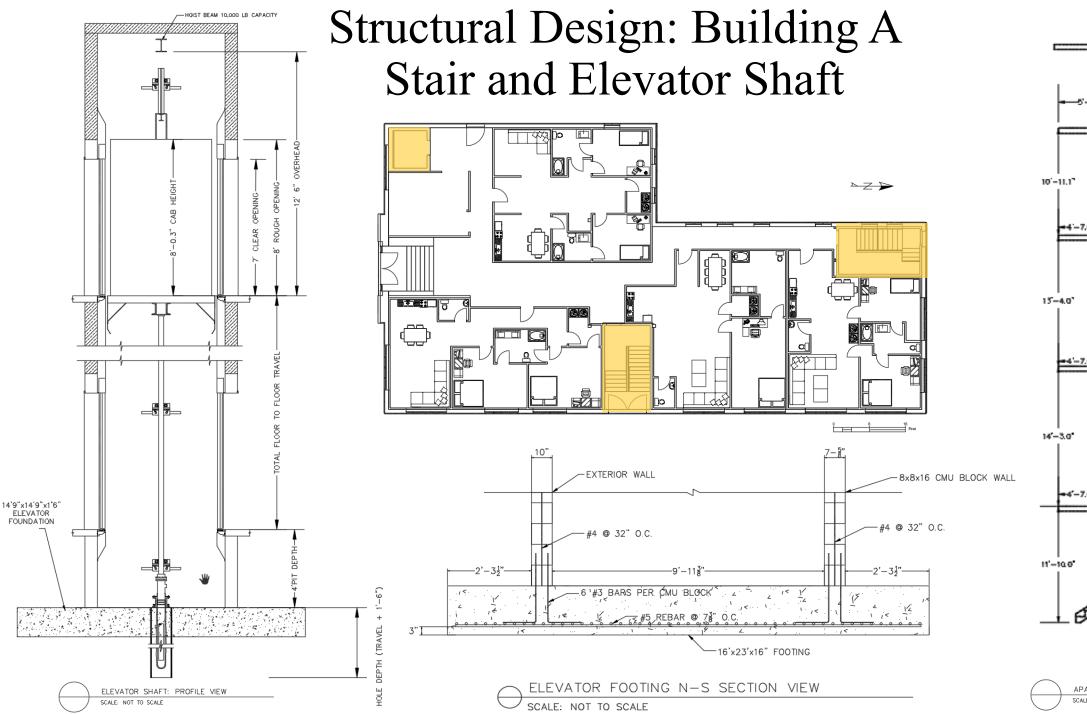
Structural Design: Building A Roof Framing

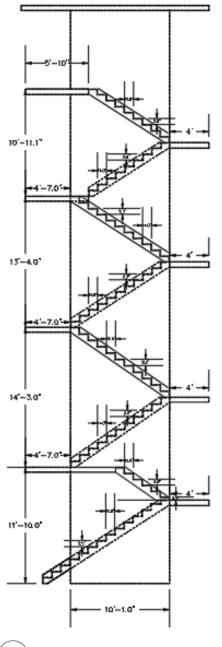


Existing Roof Framing



Designed Roof Framing









Architectural Design: Building C

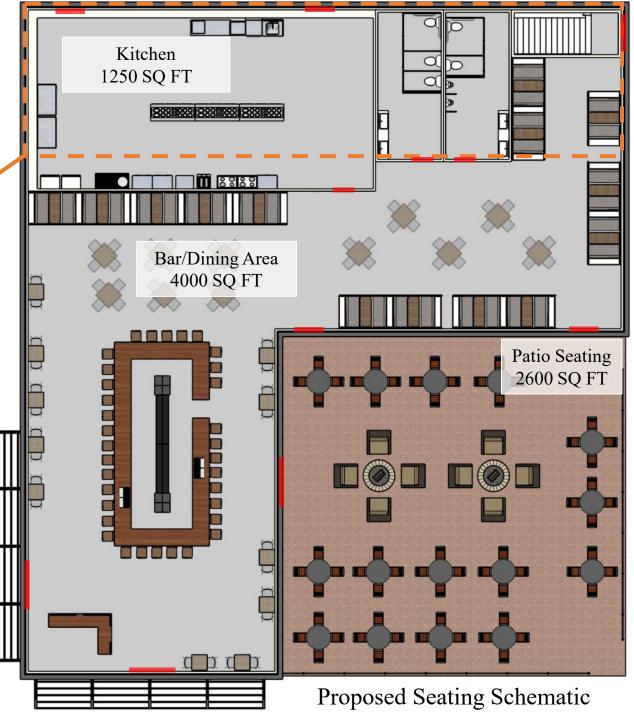
Mechanical Room
700 SQ FT

Basement Storage
1060 SQ FT

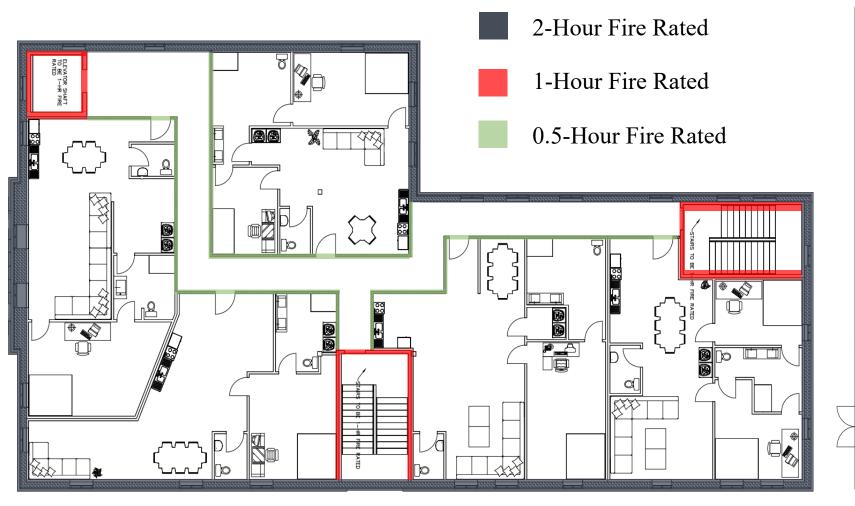
Basement Floor Plan



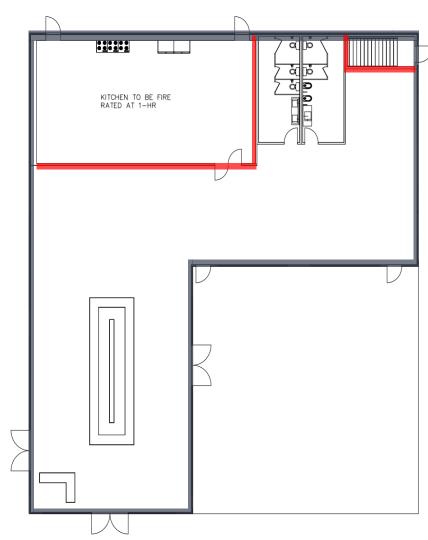




Fire Rating Design and Specifications



Building A: 2nd and 3rd Floor Fire Proofing Plan



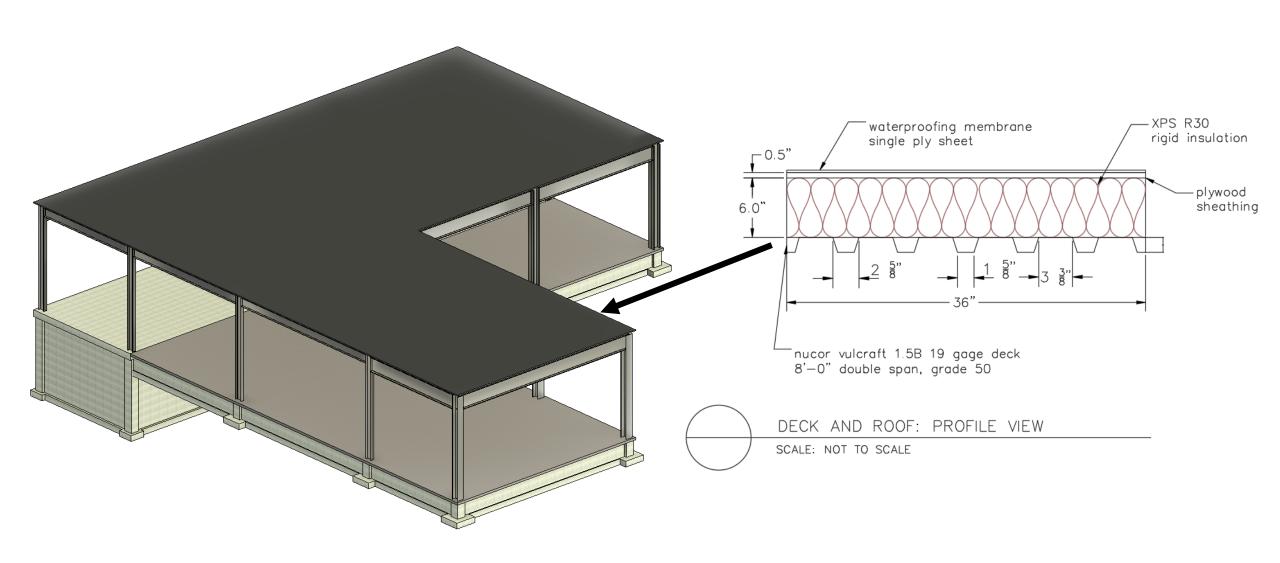
Building C: Fire Proofing Plan

Selection of Structural Materials: Building C

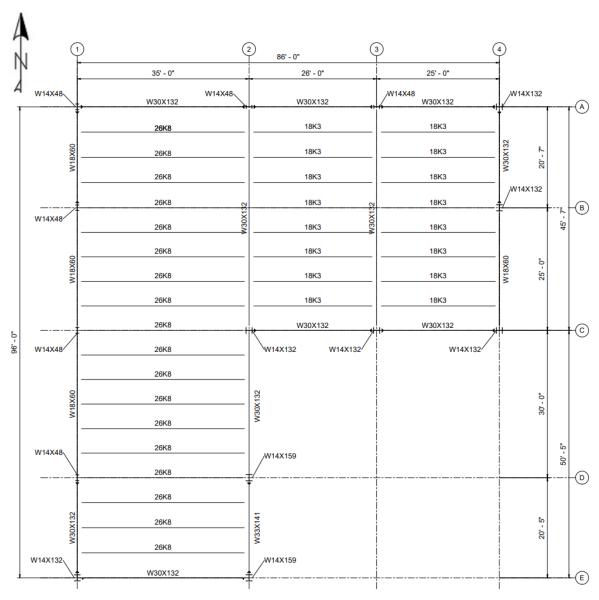


Wood Framing

Design of Roof Structure: Building C

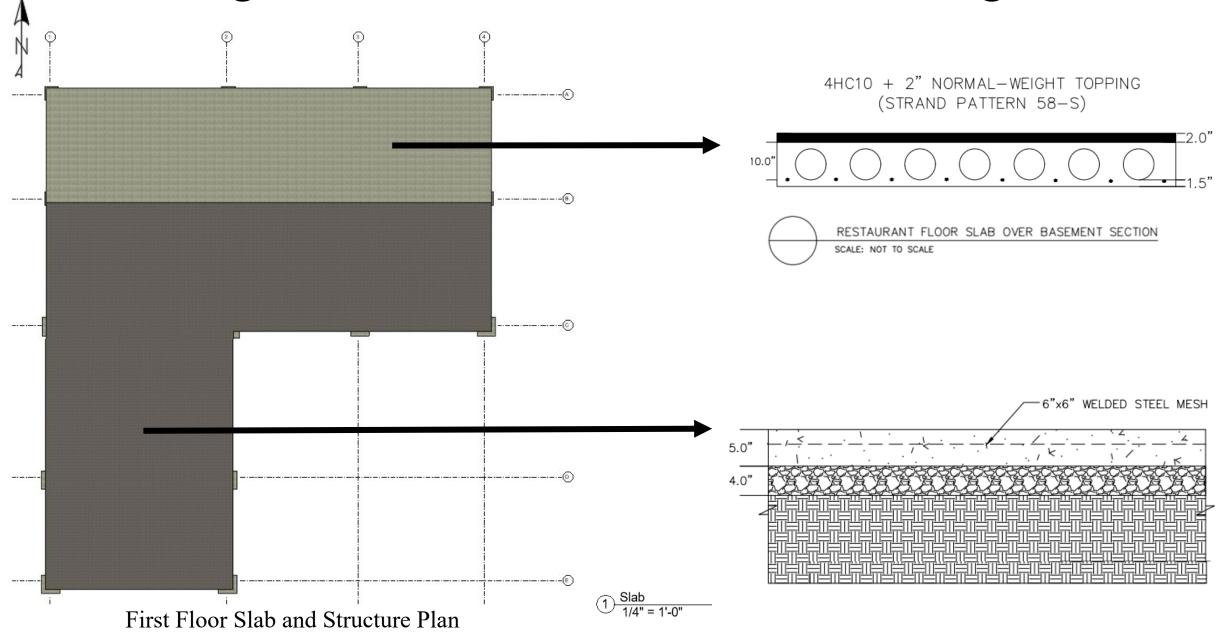


Framing Plan: Building C

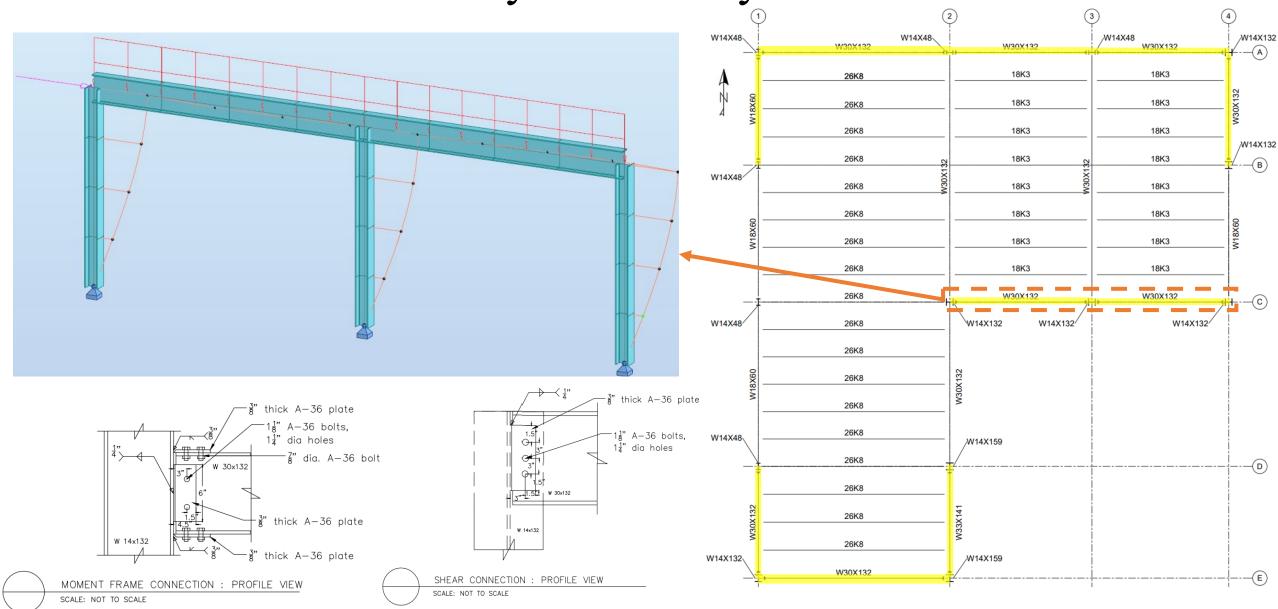


Level 1 Framing Plan

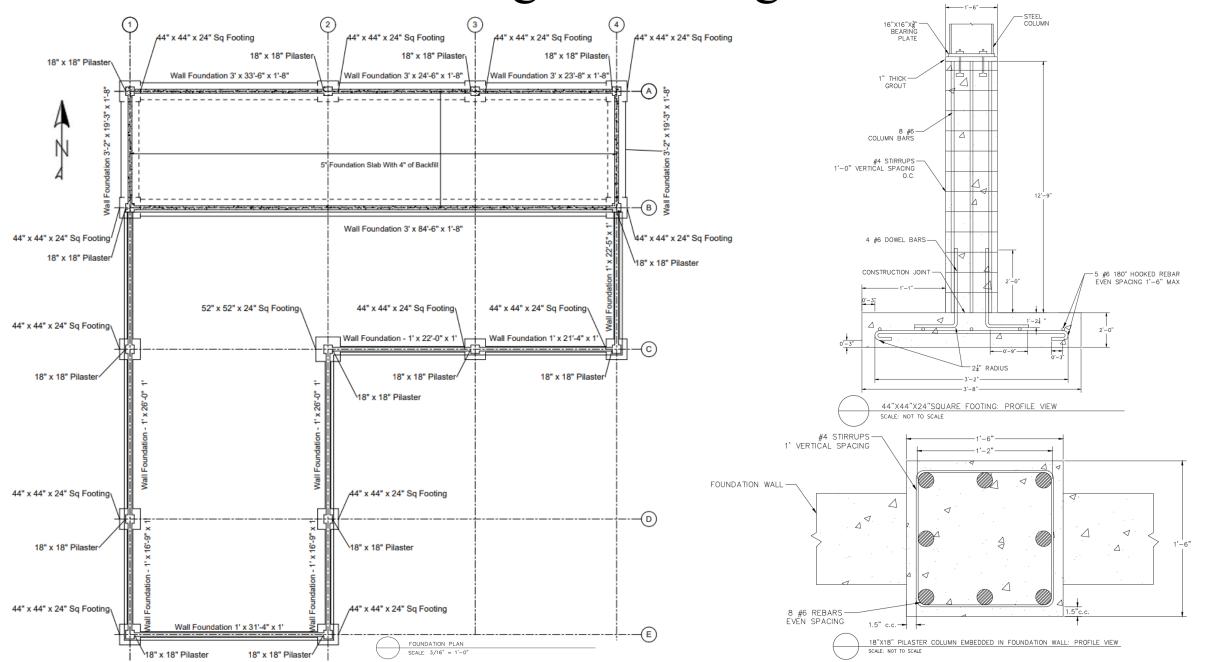
Design of First Floor Structure: Building C



Structural Design: Building C Moment Frame and Story Drift Analysis



Structural Design: Building C Foundation



Construction Cost Estimate

Discipline	(Cost (USD)
Demolition	\$	671,874
Site	\$	554,221
Structural	\$	2,252,547
Architectural	\$	2,169,650
MEP	\$	4,017,530
Materials and Labor Subtotal	\$	9,665,822
Construction Administration (20%)	\$	1,933,165
Contingency (15%)	\$	1,739,849
Total Construction	\$	13,339,000

