

① Axonometric

Project Data	
Key Name	Description
1.Project address	1746 North Spring Street, Los Angeles, CA
2.Projection description	Mixed use, Office, CLT units
3.Construction type	Type IV, Type V
4.Zoning code	C1.5-1-SP (T.O.C. Tier 4 Incentives)
5.0 Zoning designation	ZI-2129, ZI-1117, ZI-2432
5.1-Use	Commercial
5.2-FAR calculations	6.0(21.100 sq.ft. x 6 = 126,600 sq.ft.)
5.3-Occupancy Groups	A1, A2,B, M
5.4-Fire district and Height limitations	L.A. Fire District, 78'-0" Height Restriction
5.5-Legal description, Parcel number	90012
6.Height limit	Min 25' Max 60'
7.Floor ratio	3.2
8.Allowable lot coverage	28,700 sq.ft.
9.Site information	buildable area 21100 sq.ft.
10.Paved surfaces	3,800 sq.ft.
11.Landscaped areas	4. 762 sq.ft.
12.Min setback from river	50'
13.Max setback from property lines	10'
14. Min setback from train trackss	30'

Project Data Calculation & Analysis	
Key Name	Description
1.Programmed Area	84,060 sq.ft
2.Non-programmed Area	26,000 sq.ft.
3.Gross Area: Floor Plan Area	110,060 sq.ft.
4.Gross Area: Floor Area Per AIA D101	114,060,sq.ft
5.Useable Area (Boma Standards)	66,036 sq.ft.
6.Rentable Area (Boma Standards)	44,024. sq.ft.
7.Rentable / Useable Ratio	67%
8.Area devoted to Circulation	16,509 sq.ft.
9.Ratio of Enclosure to Enclosed Area	1:0.85



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ADA Cut Sheet	A13

Ant-Farm Project

Designer

Jianghan Dong
USC ID:1195740173

Yufan Xie
USC ID:8932386568

A1 Title Sheet

Project Address:
1745 N Spring St, Los Angeles, CA 90012

Architecture 526, Fall 2020

Date 11/05/2020

Instructor Karen Kensek

Scale

Half Size Set 22"x34"

Latest Revision on
10/14/2020
by
Jianghan Dong, Yufan Xie

Signature

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Yufan Xie



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Property Analysis	
Key Name	data
1.square feet building footprint	26,985 sq.ft.
2.landscaped areas	1,374 sq.ft.
3.paved areas	6,890 sq.ft.
4.percent building footprint areas	26,985 / 31,750 = 0.85
5.percent landscape areas	1,374 / 31,750 = 0.04
6.percent paved areas	6,890 / 31750 = 0.21
7.project Address	1746, 1749, 1756 N North Spring St., Los Angeles, CA 90012
8.tract	Subdivision of the Wilhardt Tract
9.general Land Use	Hybrid Industrial
10.zoning	UV(CA)
11.zoning Information	ZI-2129, ZI-1117, ZI-2432

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A2
Plot plan

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Instructor Checker

Scale 1" = 20'-0"

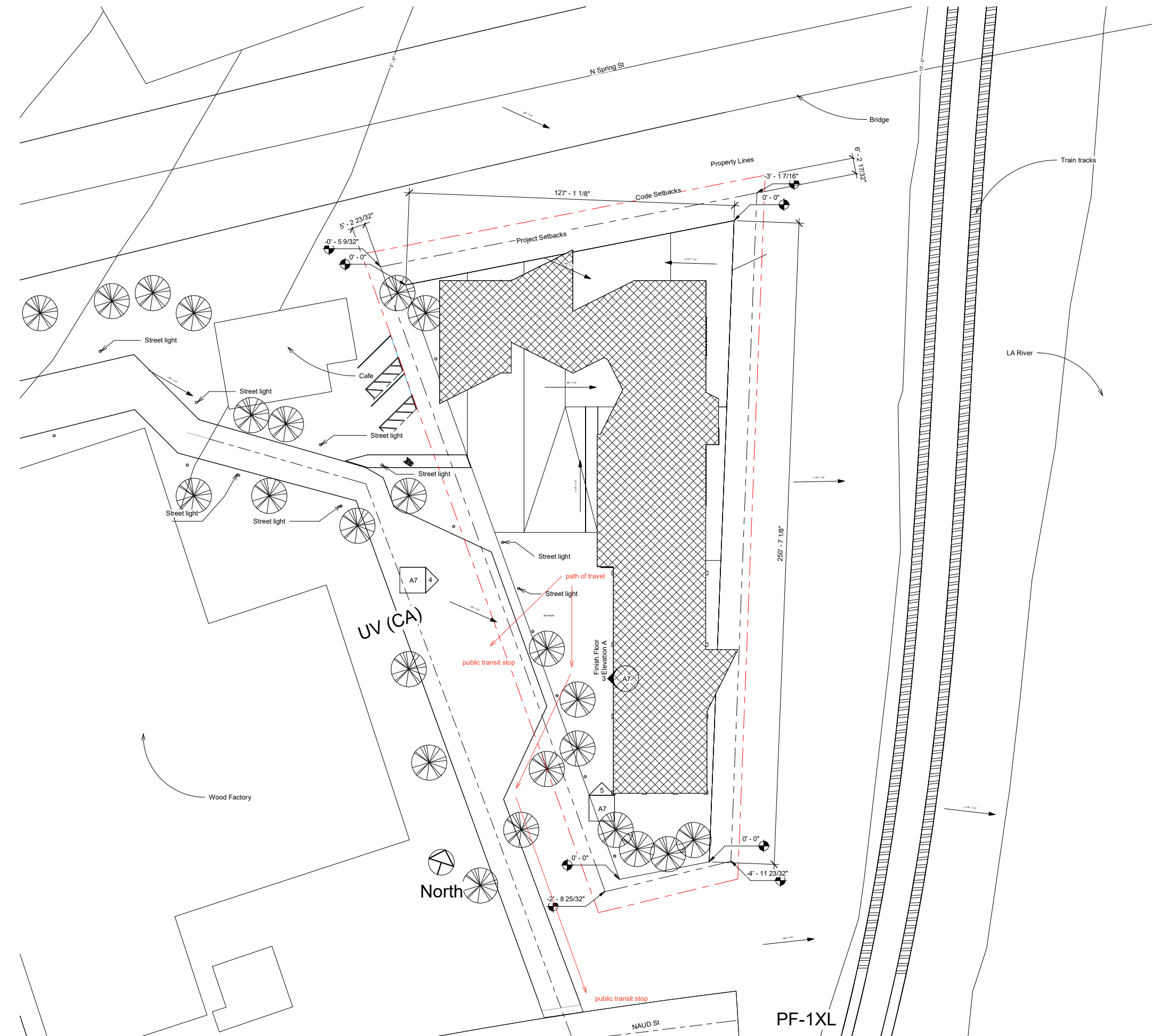
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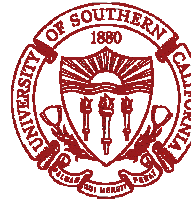
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1 Plot plan
1" = 20'-0"



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A3 Ground floor plan

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Scale 1/8" = 1'-0"

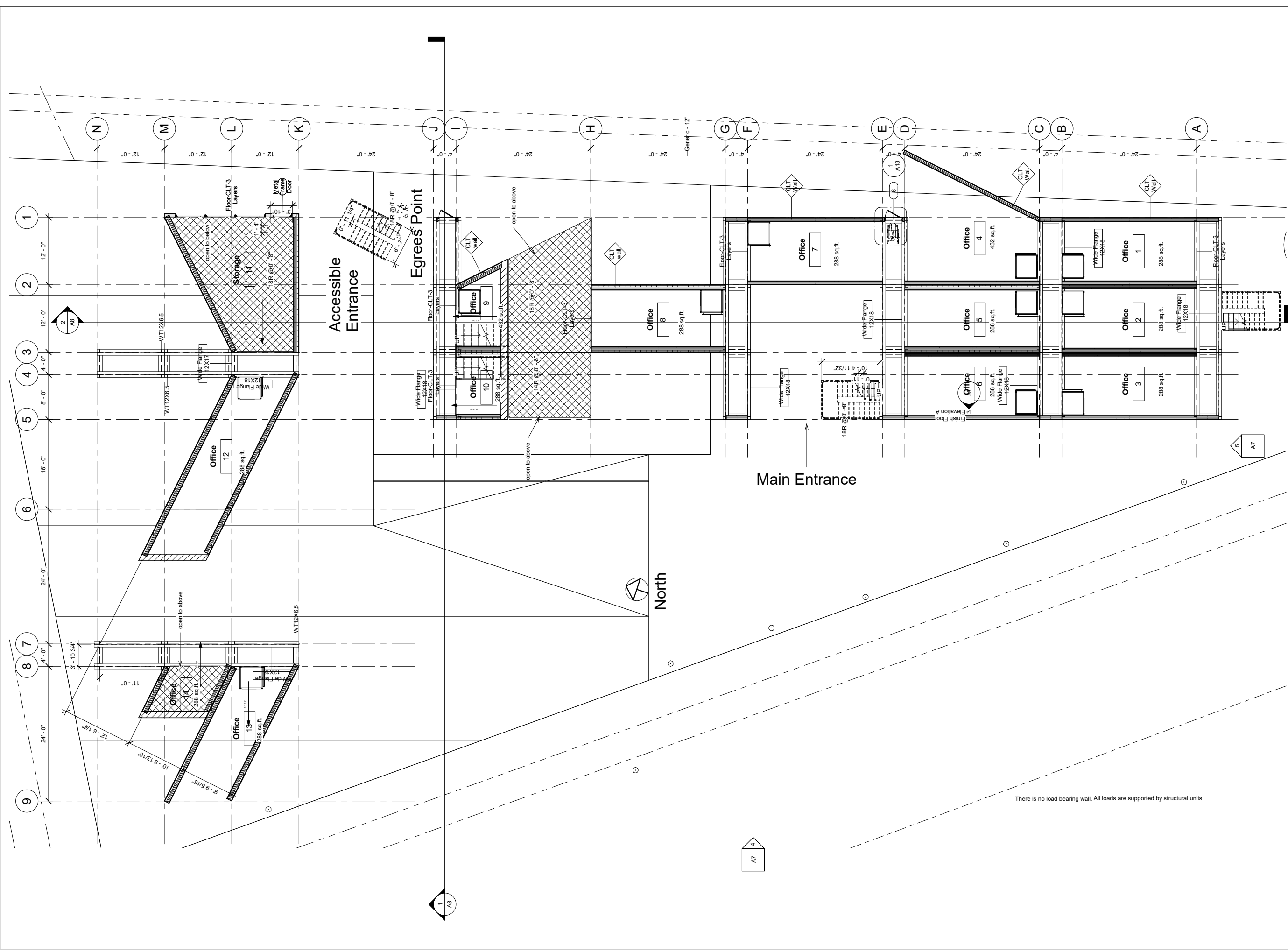
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A4 Typical floor plan (Underground & Equipment)

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Scale: 3/32" = 1'-0"

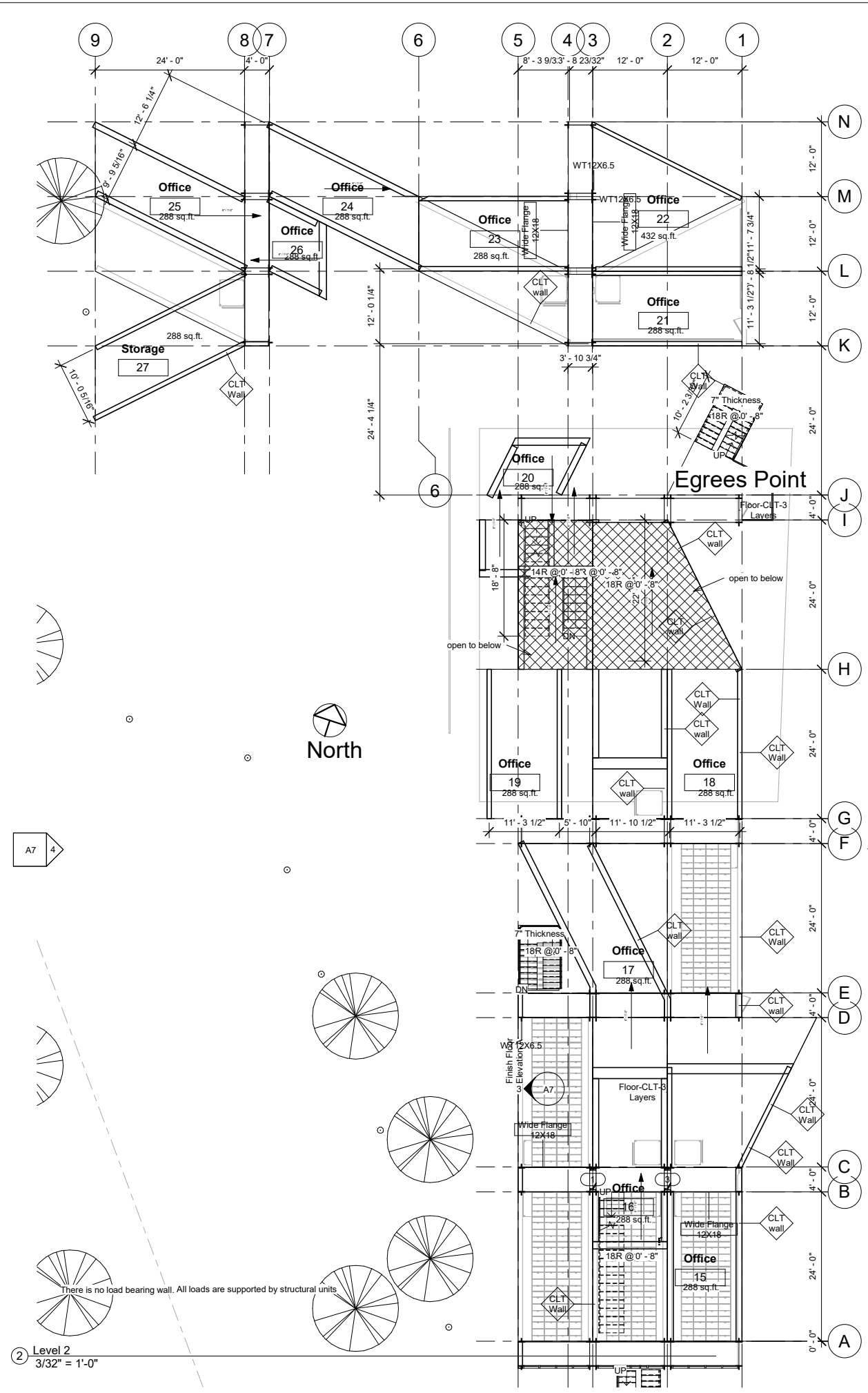
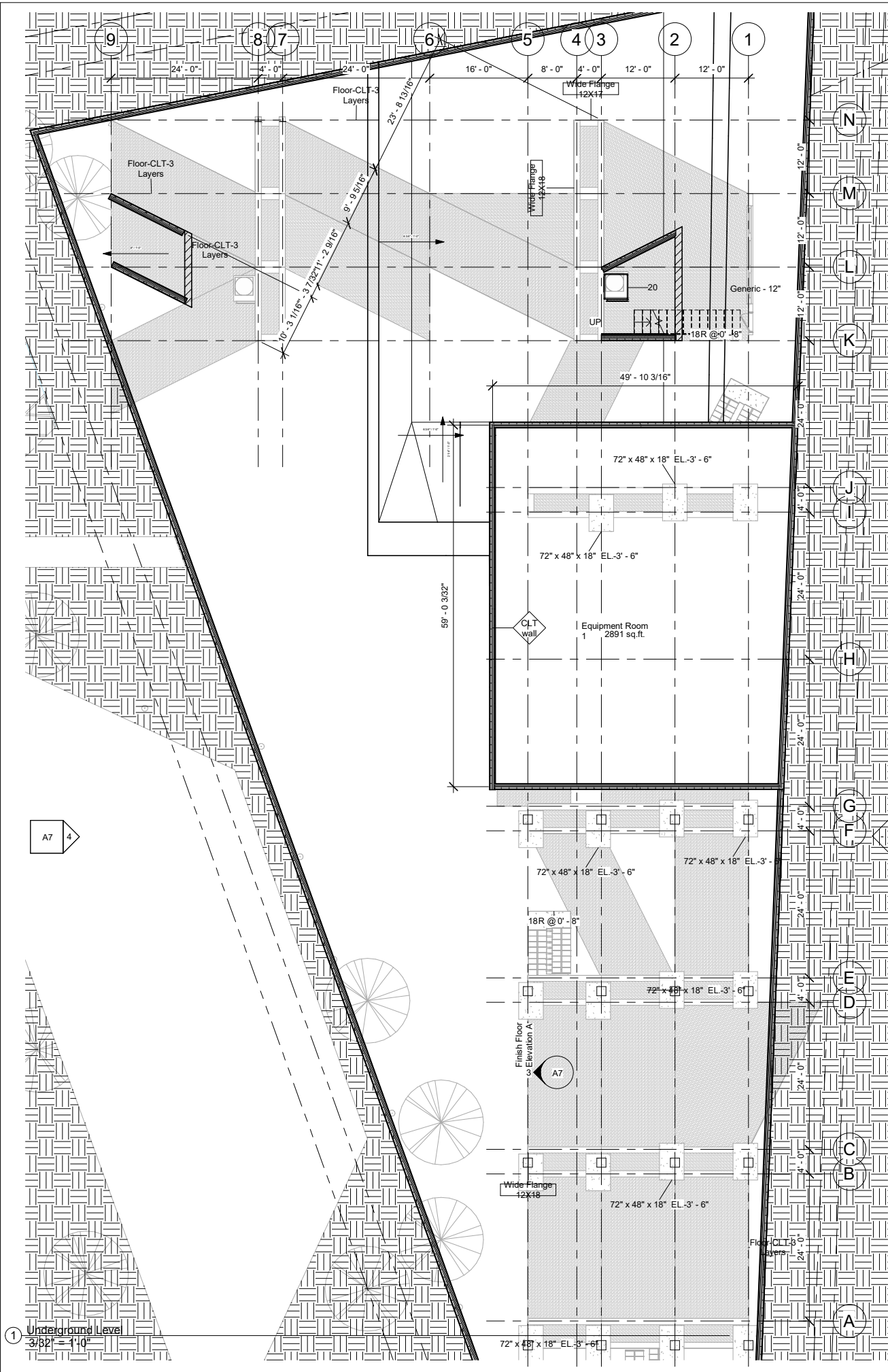
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A5
Roof Plan

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Scale 1/8" = 1'-0"

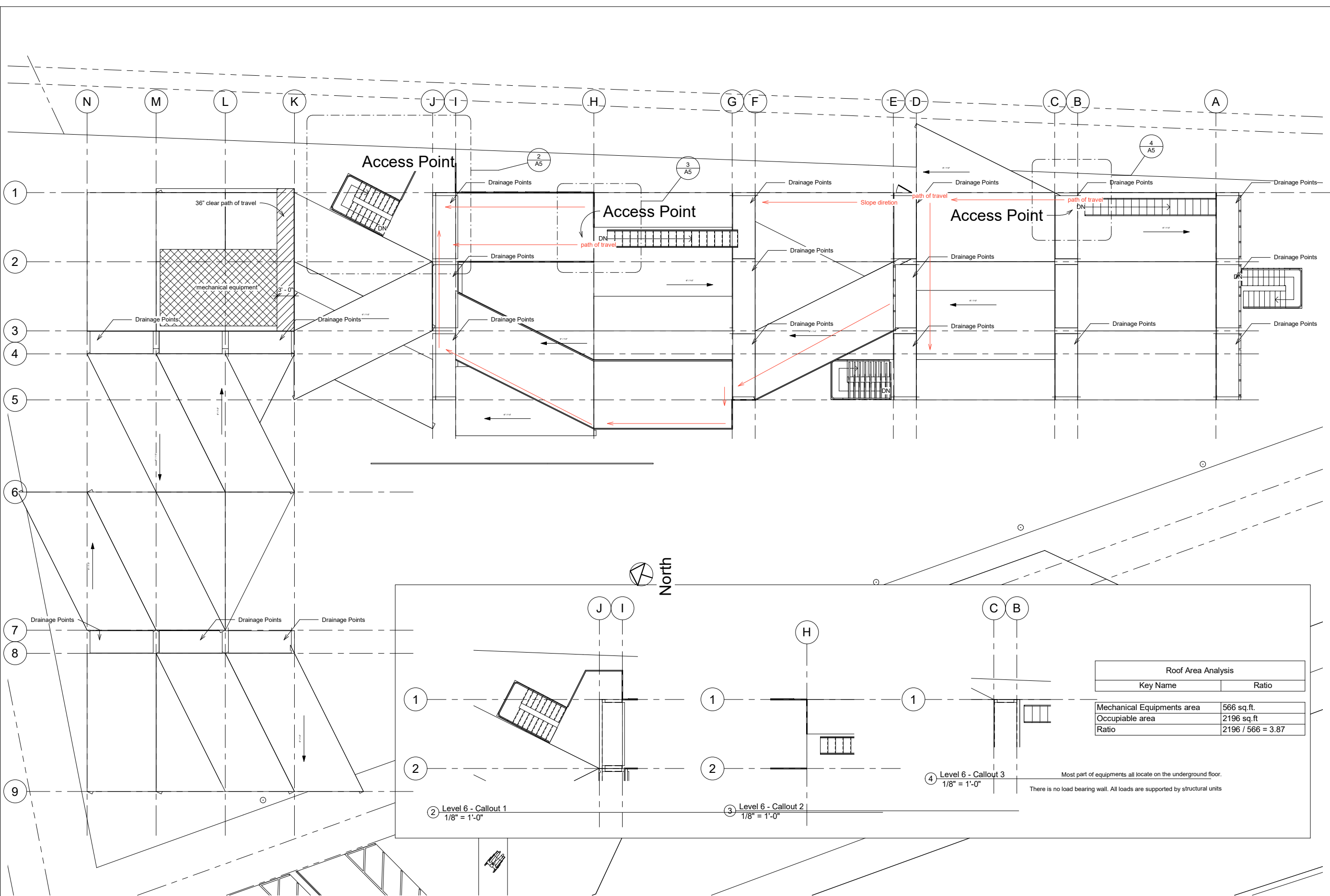
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A6
System Coordination
(Structural Plan)

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Scale As indicated

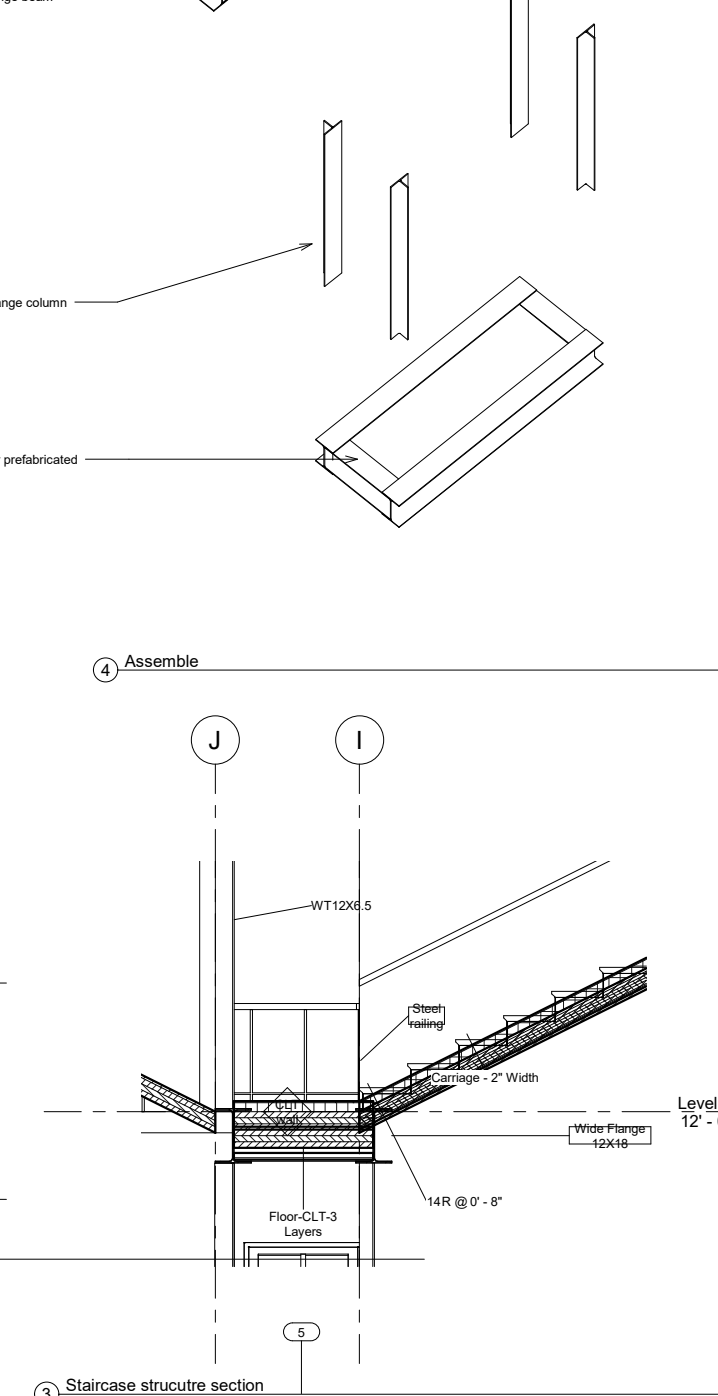
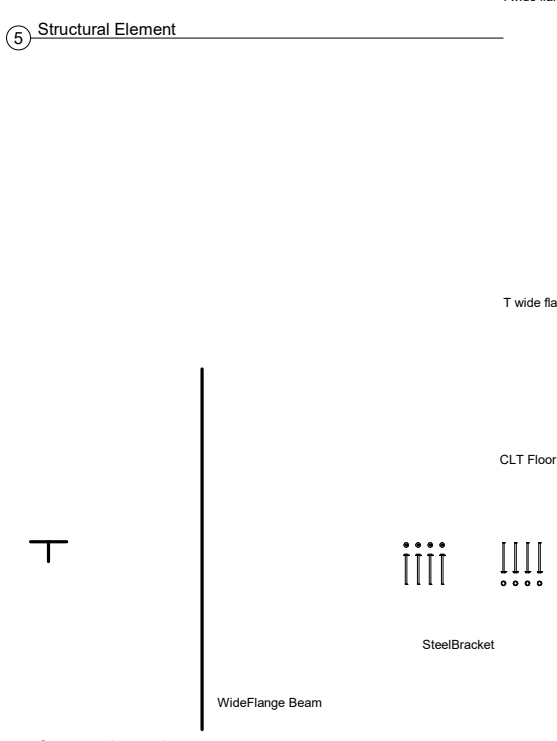
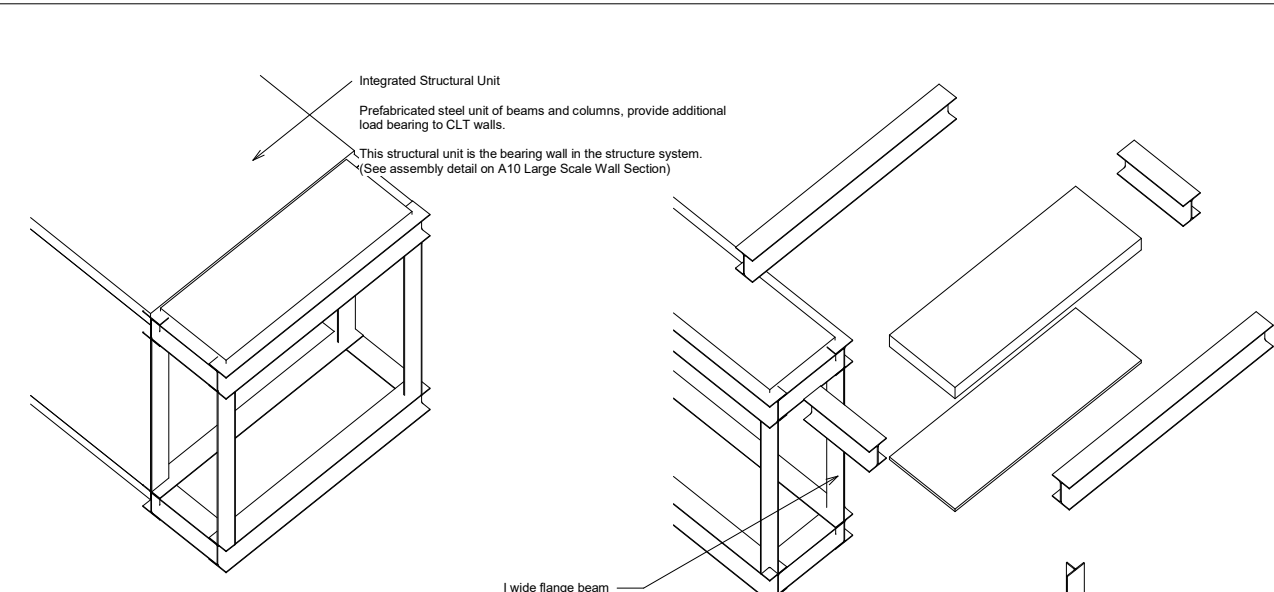
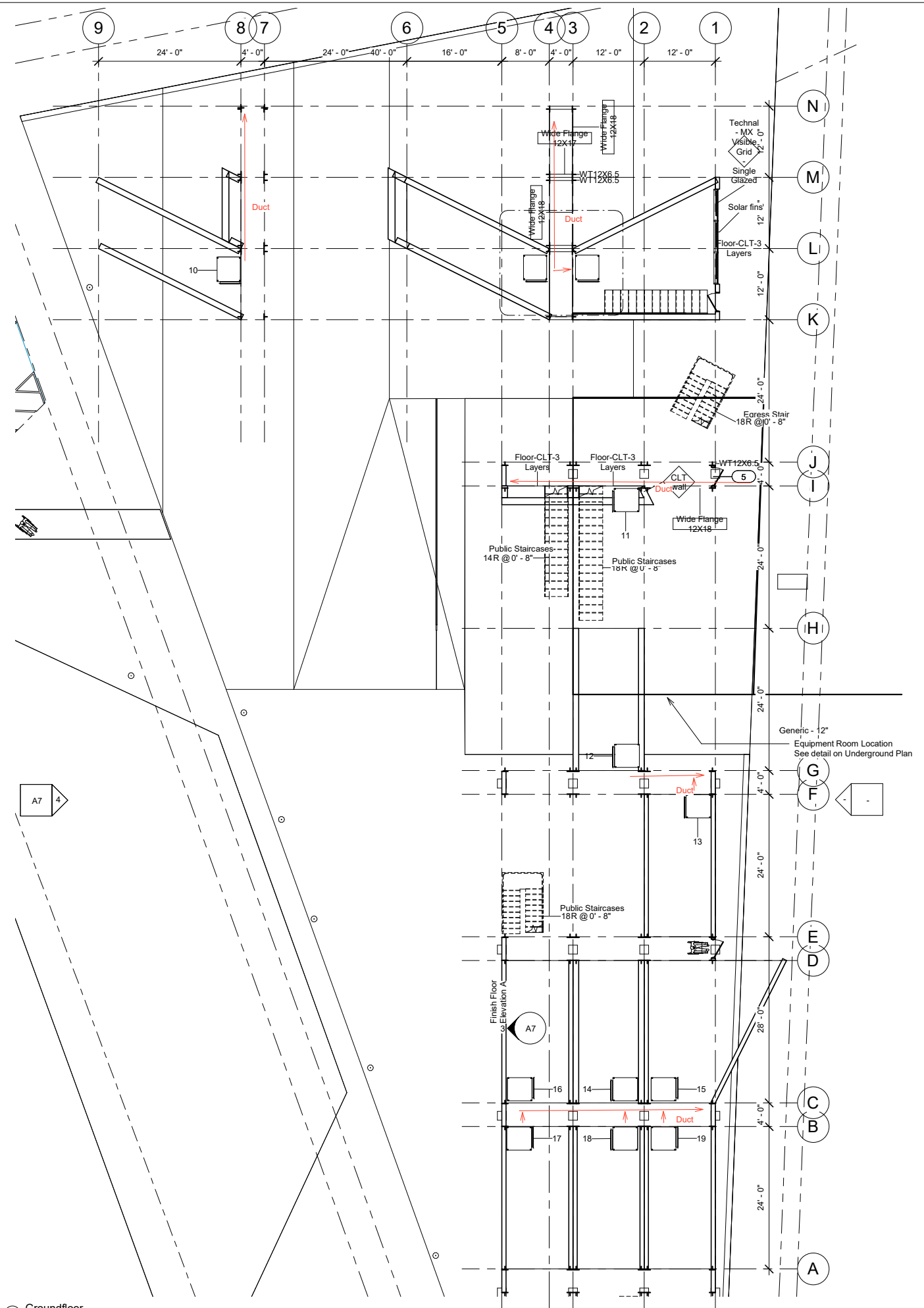
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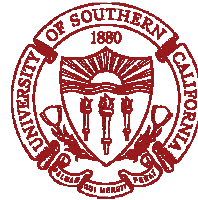
Yufan Xie



1 Ground floor
3/32" = 1'-0"

2 ceiling callout

3 Staircase structure section
3/8" = 1'-0"



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A7 Exterior Elevations

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Scale 1/16" = 1'-0"

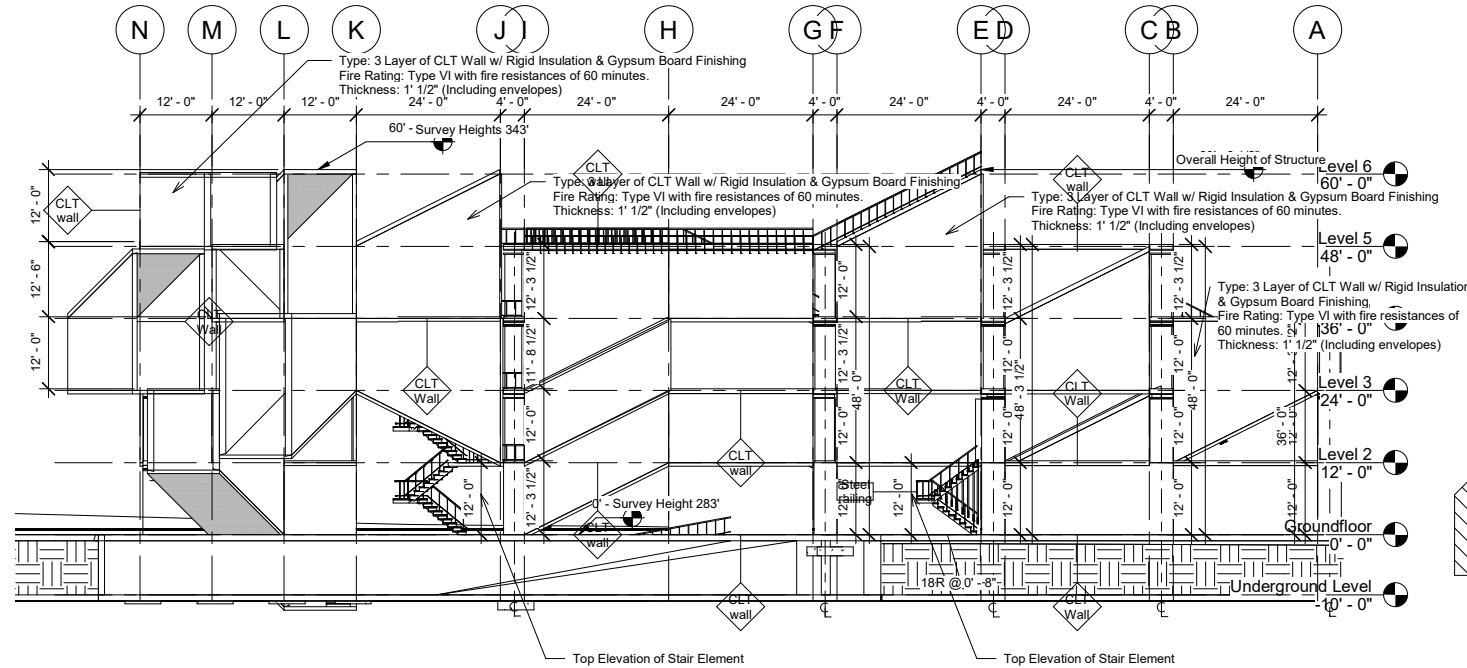
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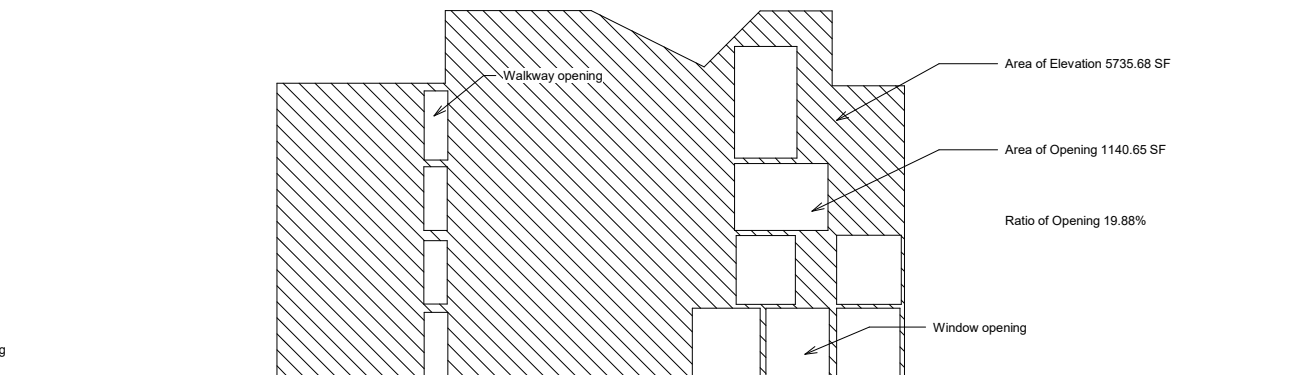
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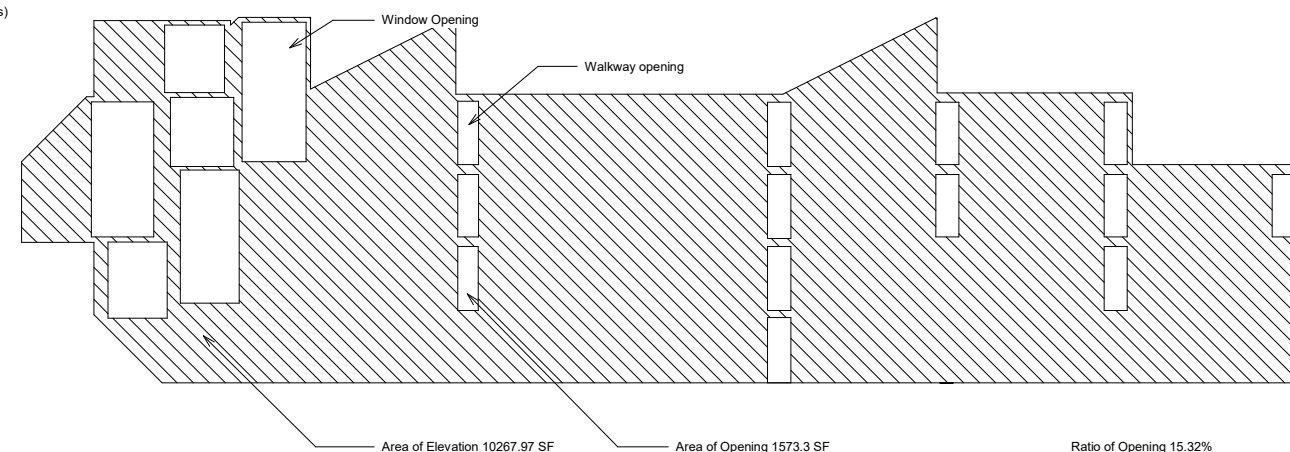
Yufan Xie



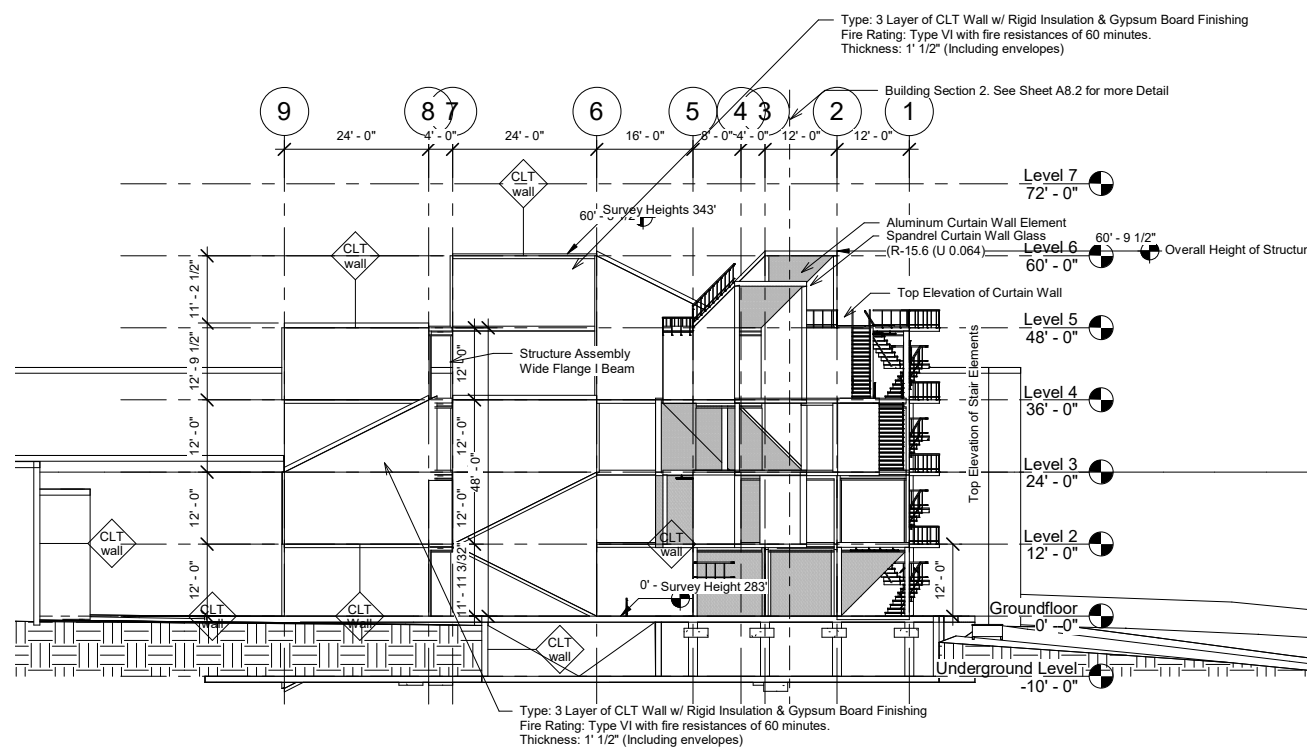
1 West Elevation
1/16" = 1'-0"



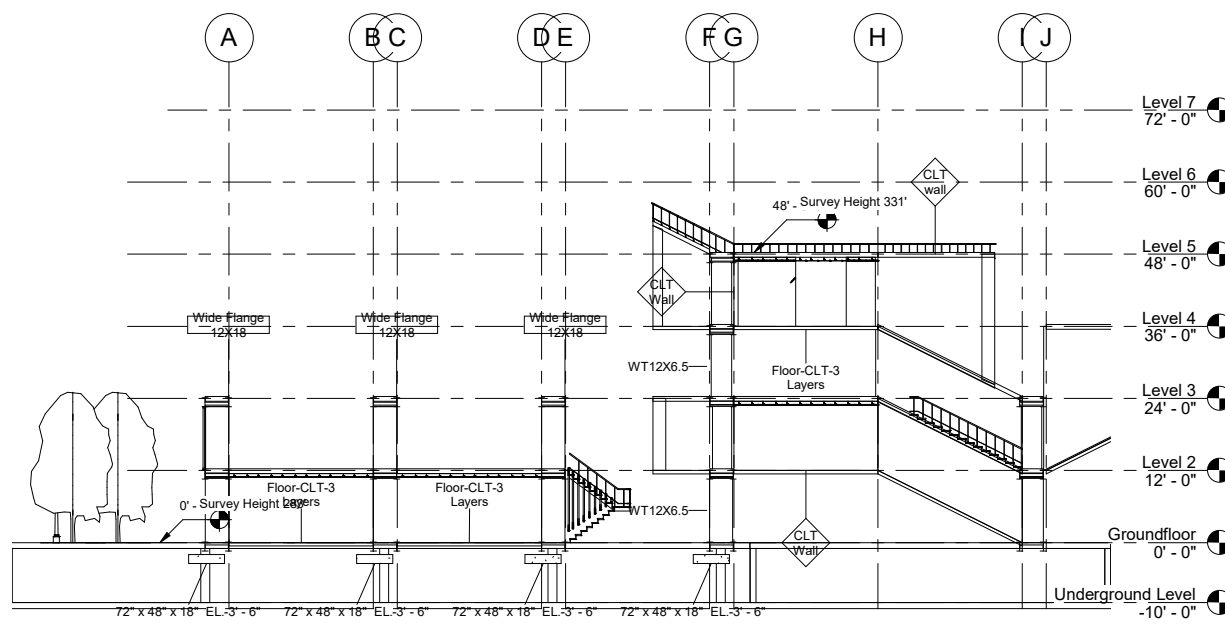
5 South Elevation - Ratio of Opening
1/16" = 1'-0"



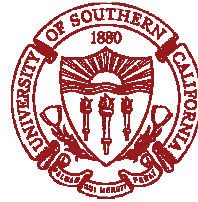
4 West Elevation - Ratio of Opening
1/16" = 1'-0"



2 South Elevation
1/16" = 1'-0"



3 Finish Floor Elevation A
1/16" = 1'-0"



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A8
Building Section

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Scale 3/32" = 1'-0"

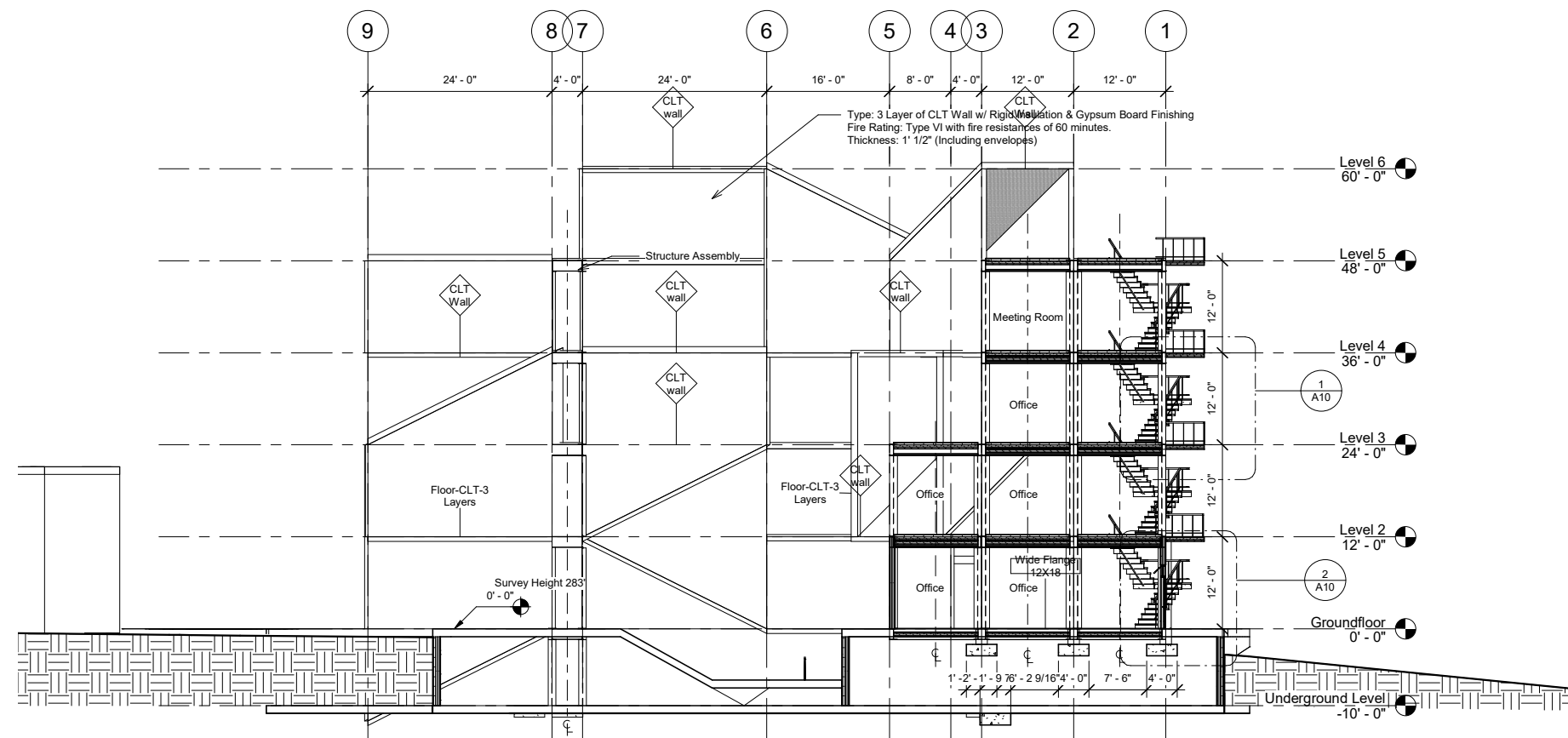
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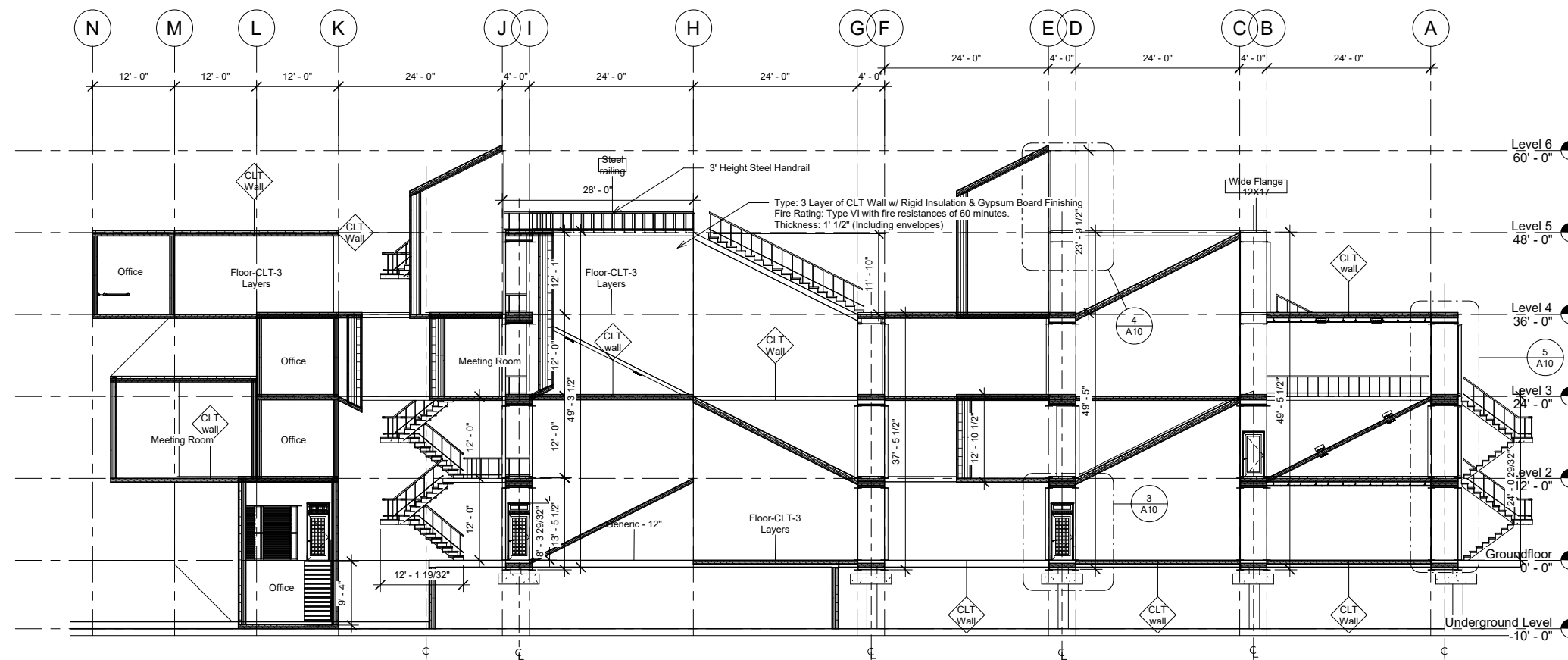
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Yufan Xie



1 Section 1
3/32" = 1'-0"



2 Section 2
3/32" = 1'-0"



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A10
Large scale wall sections

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Scale 1/2" = 1'-0"

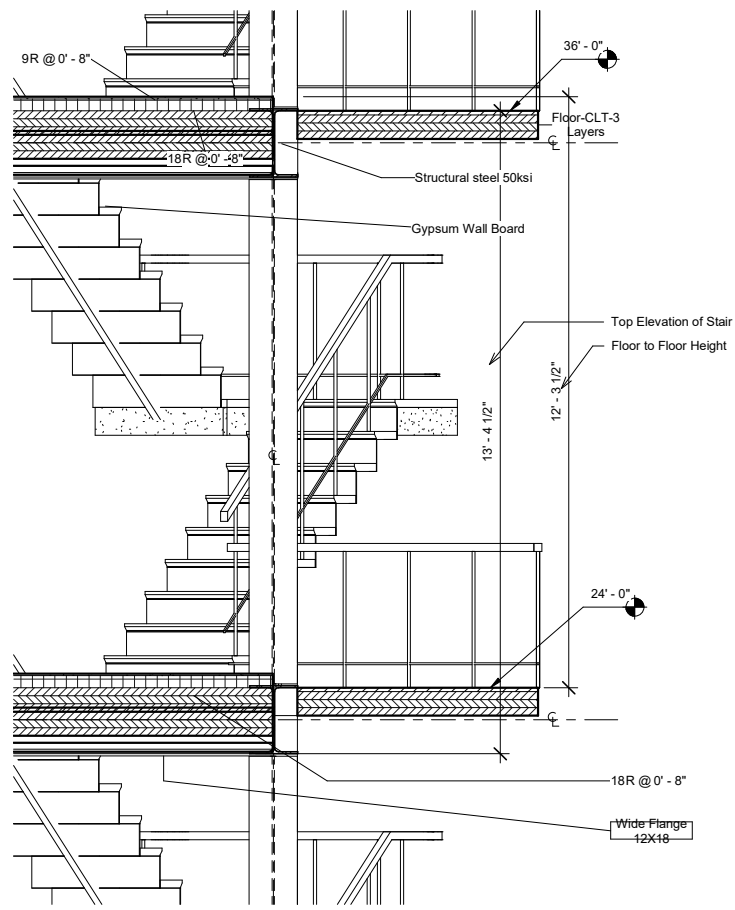
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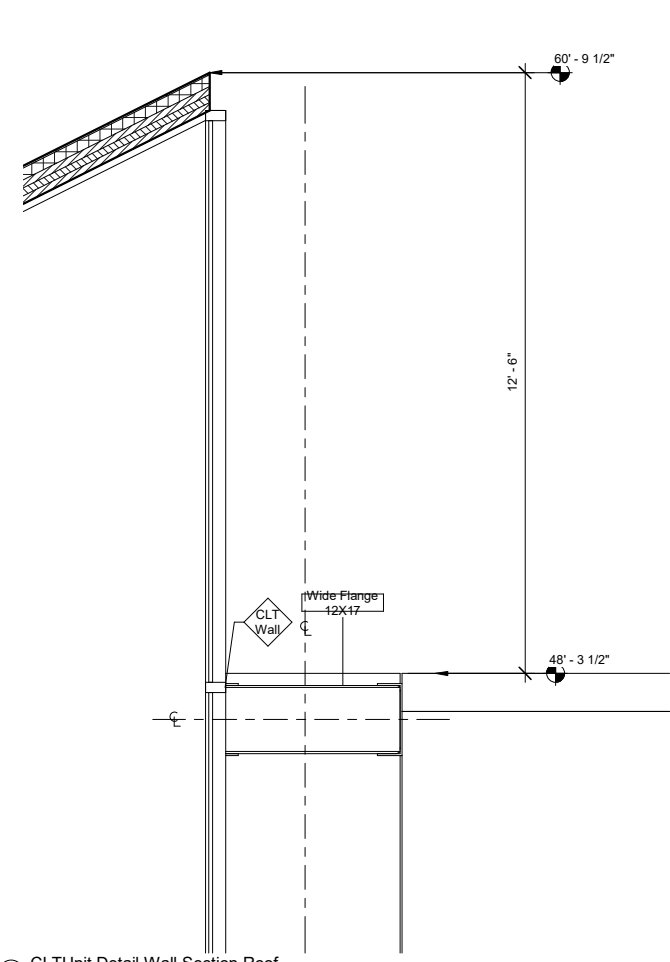
Signature

Jianghan Dong

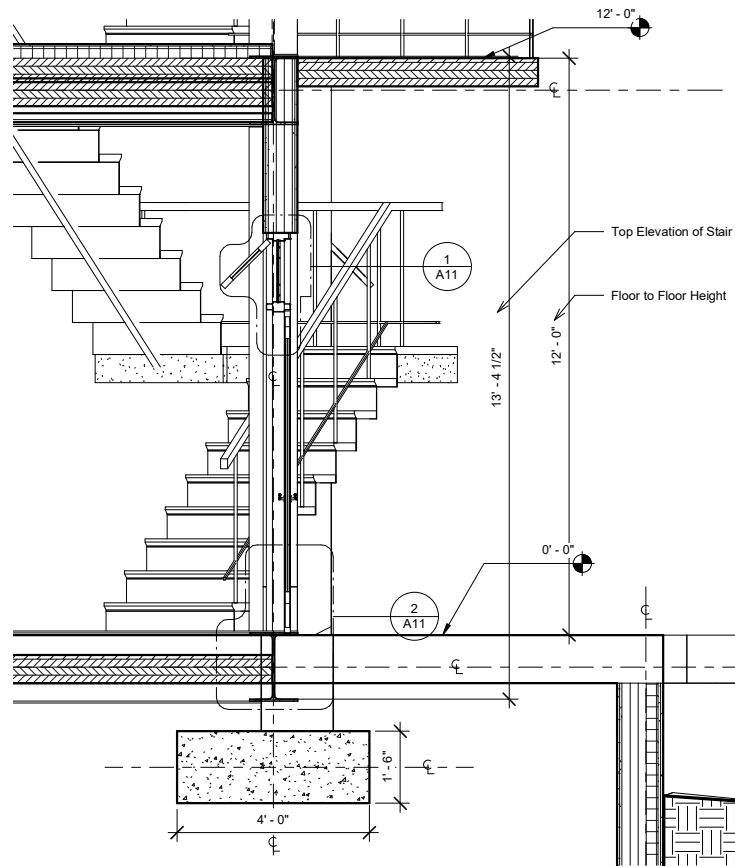
Yufan Xie



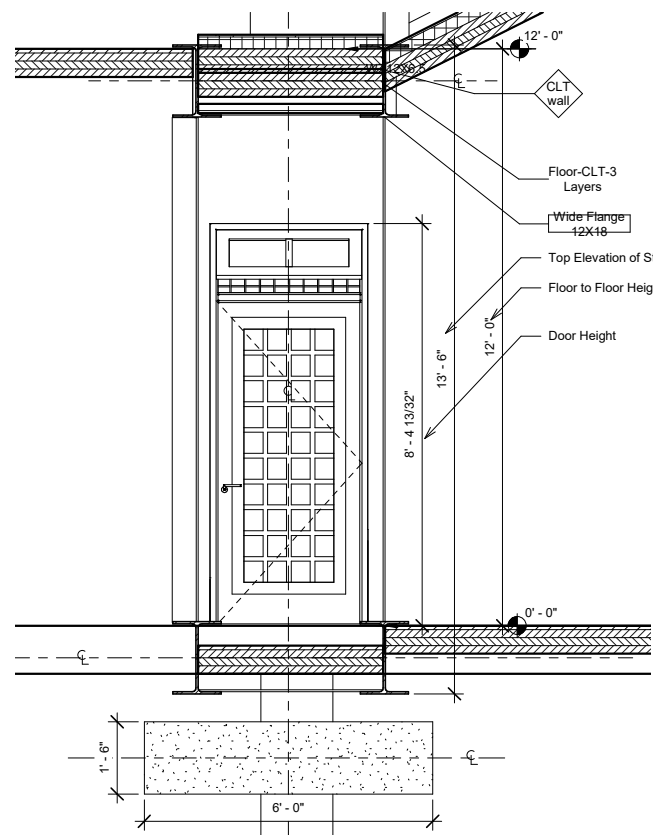
1 StructureUnit Detail Wall Section Roof
1/2" = 1'-0"



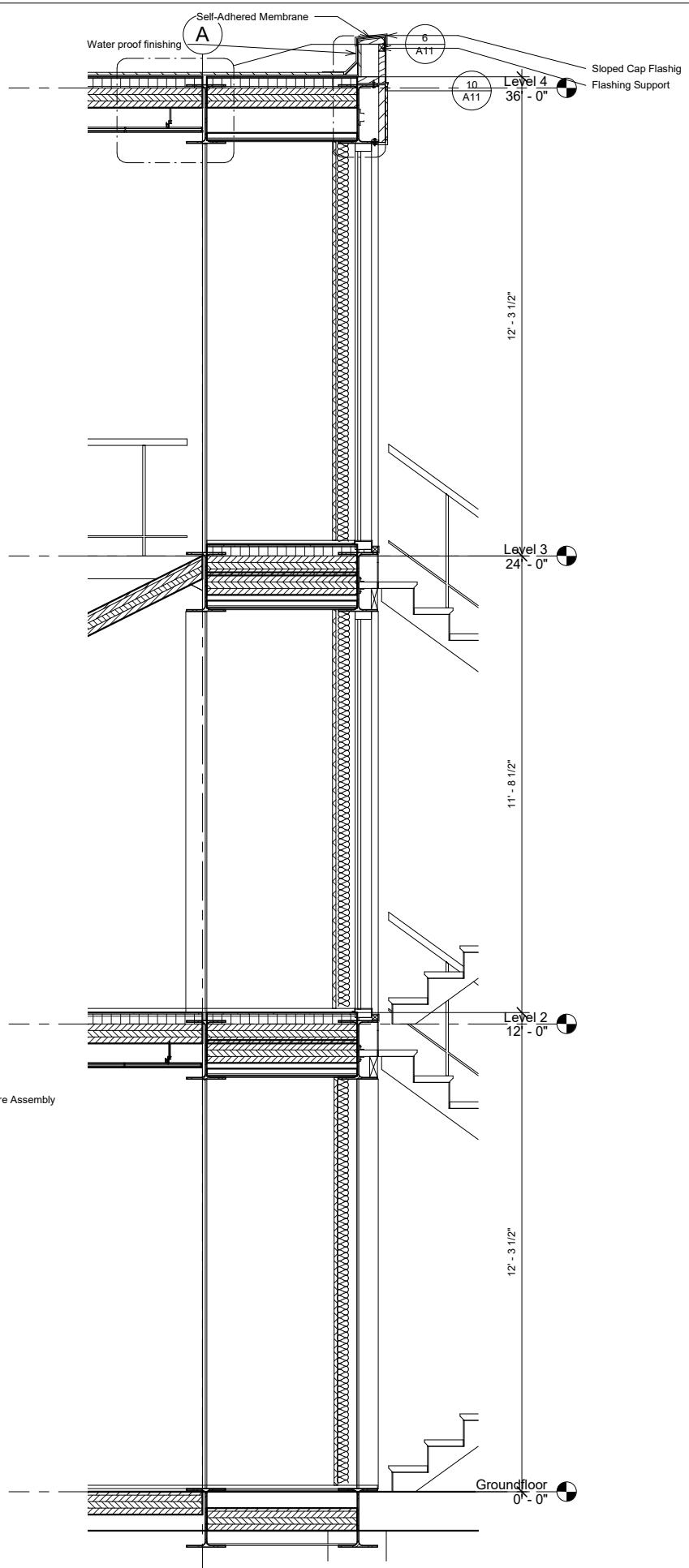
4 CLTUnit Detail Wall Section Roof
1/2" = 1'-0"



2 StructureUnit Detail Wall Section Ground
1/2" = 1'-0"
Note: No bearing wall is used, all structural loads are supported by steel units



3 CLTUnit Detail Wall Section Ground
1/2" = 1'-0"
Note: No bearing wall is used, all structural loads are supported by steel units



5 Finish Wall Section
1/2" = 1'-0"



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A11
Details

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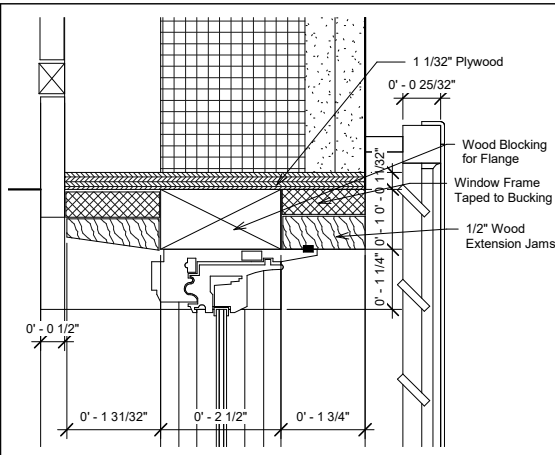
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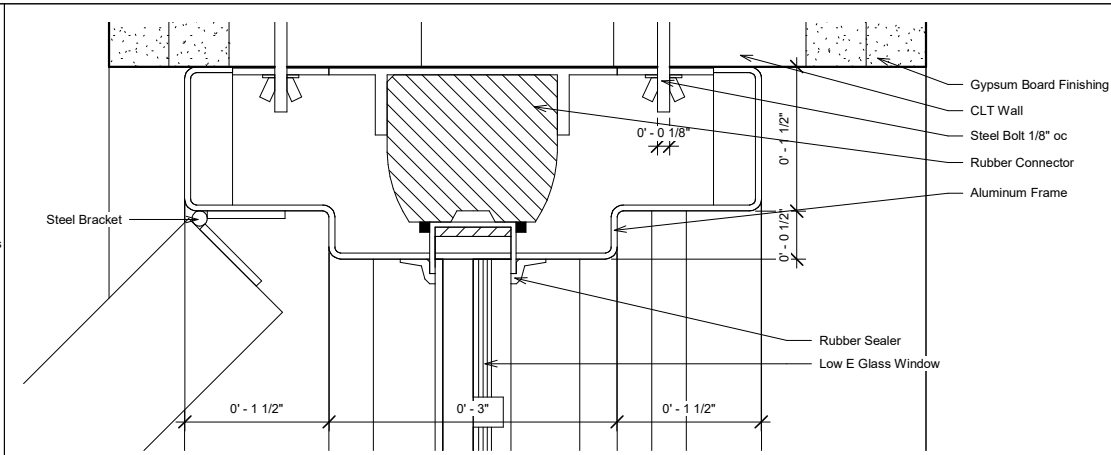
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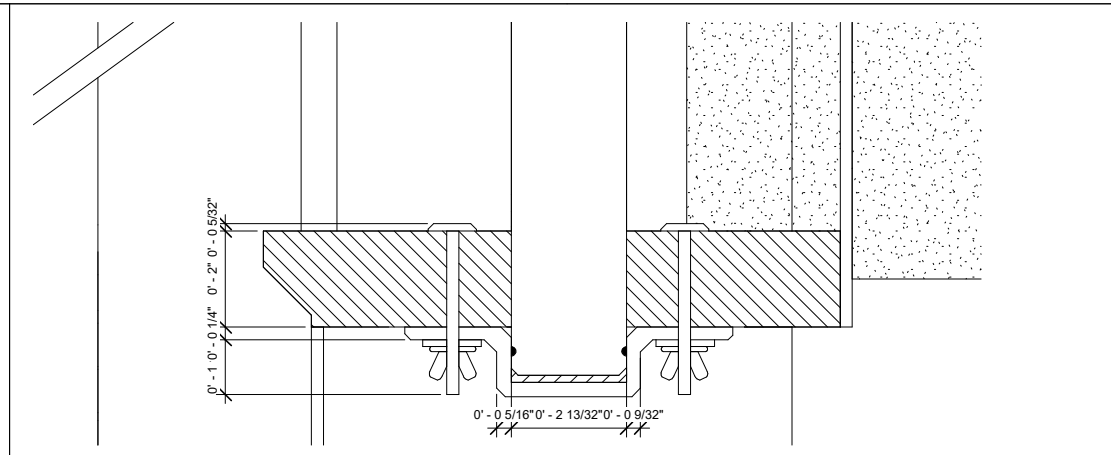
Yufan Xie



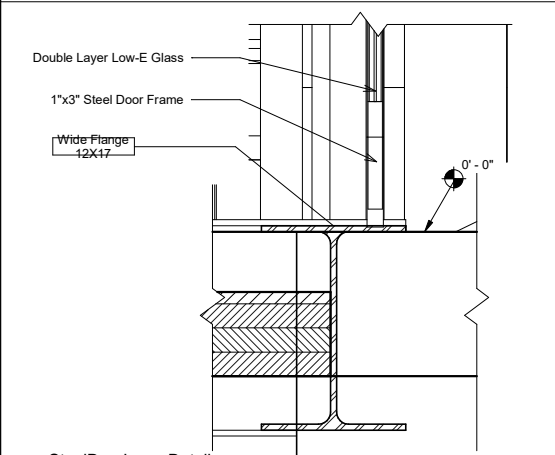
12 Window Section - Callout 1
6" = 1'-0"



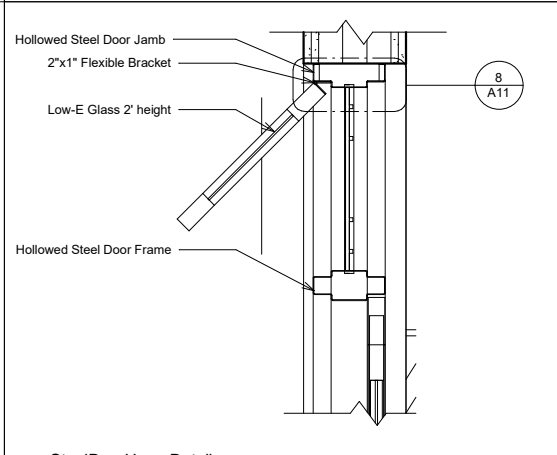
8 SteelDoorUpperDetail - Callout 1
12" = 1'-0"



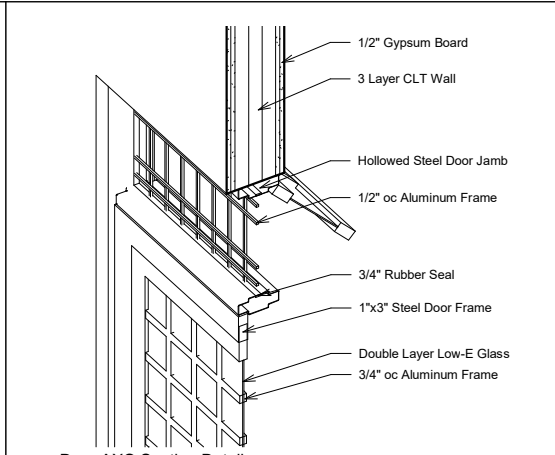
9 Stair Side View - Callout 1
6" = 1'-0"



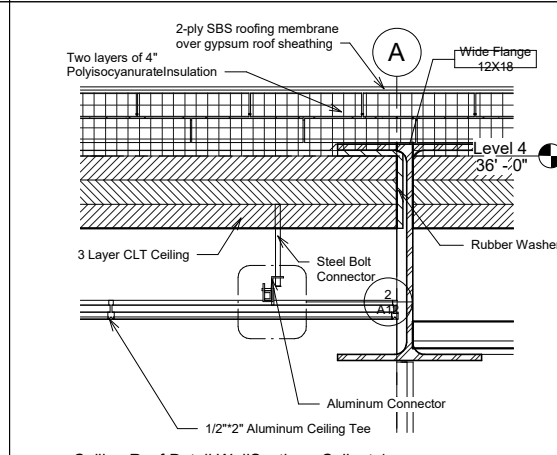
2 SteelDoorLowerDetail
1 1/2" = 1'-0"



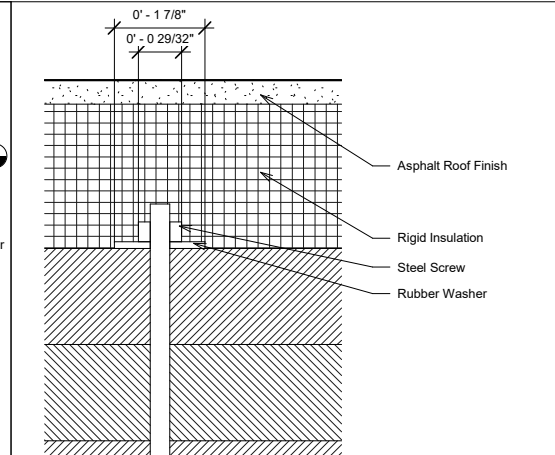
1 SteelDoorUpperDetail
1 1/2" = 1'-0"



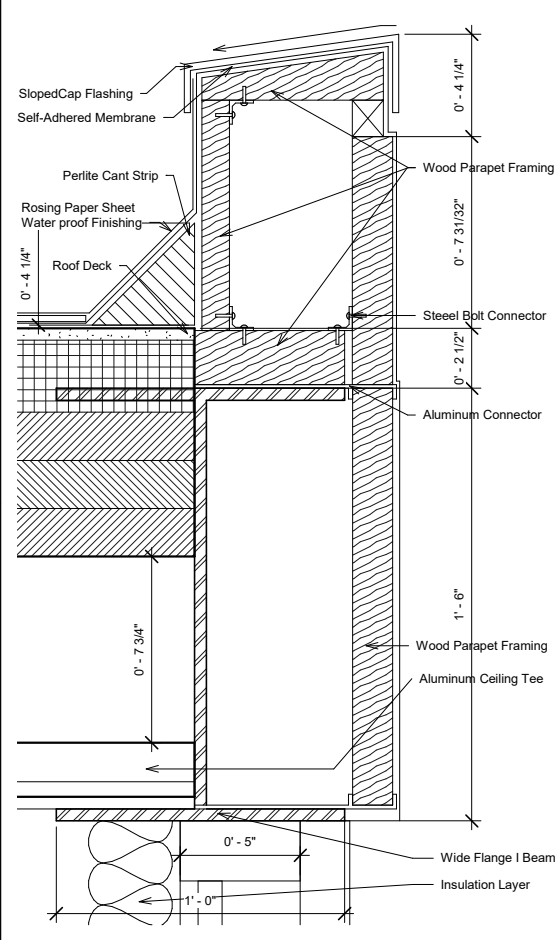
3 Door AXO Section Detail



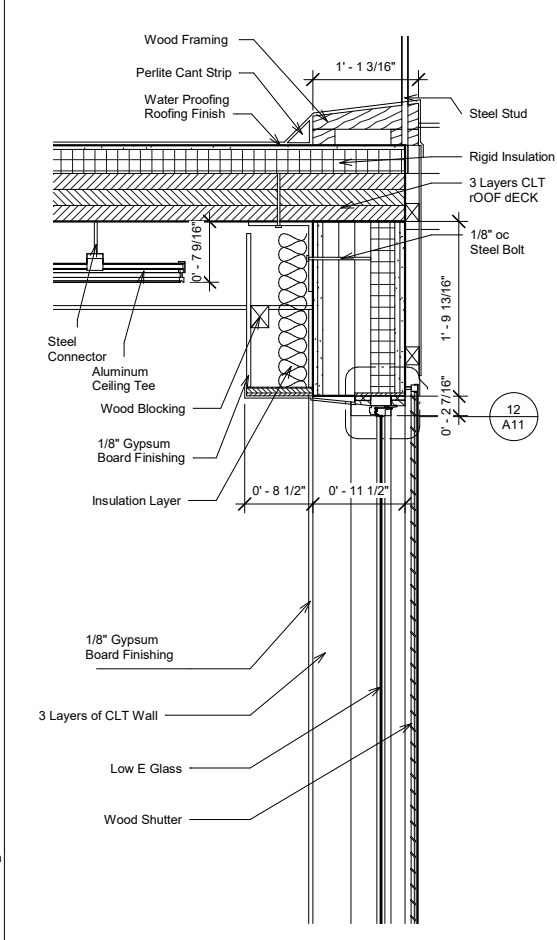
6 Ceiling Roof Detail WallSection - Callout 1
1 1/2" = 1'-0"



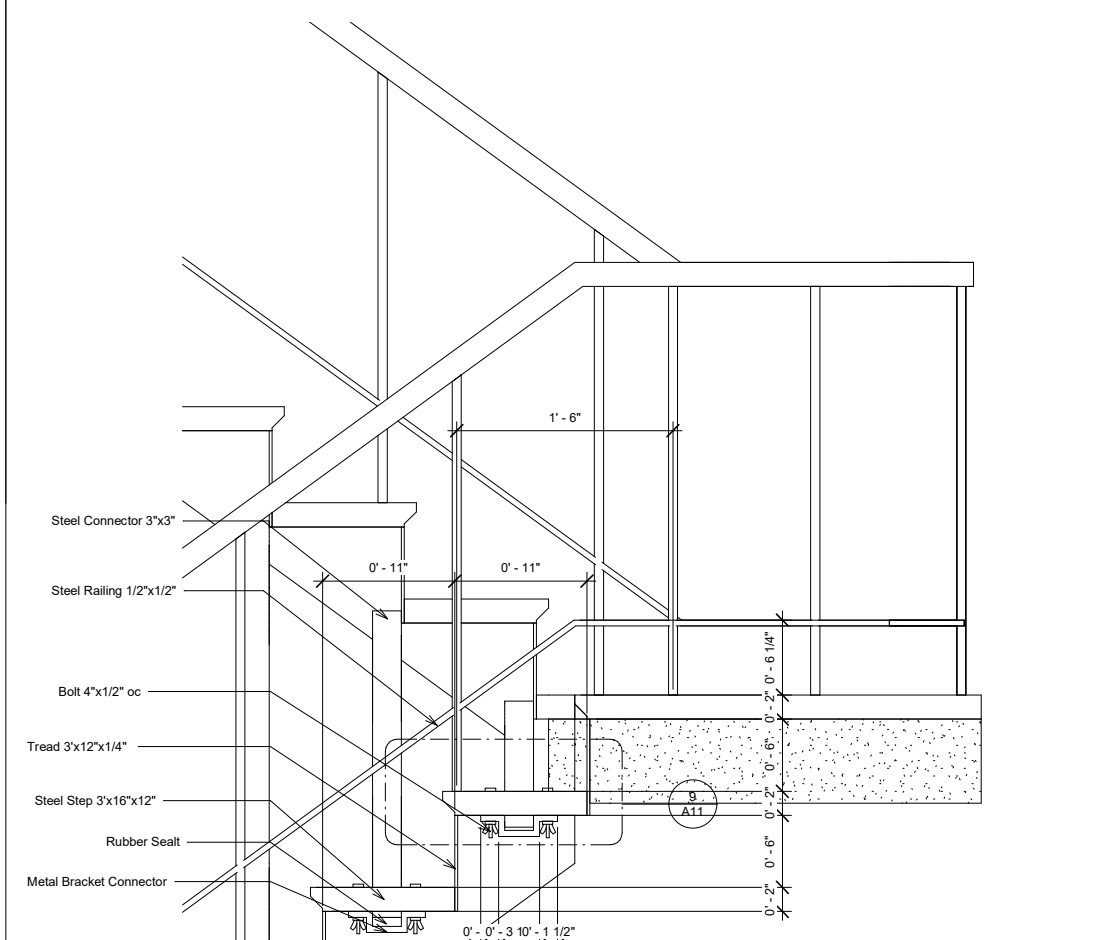
7 Ceiling Connection Detail
6" = 1'-0"



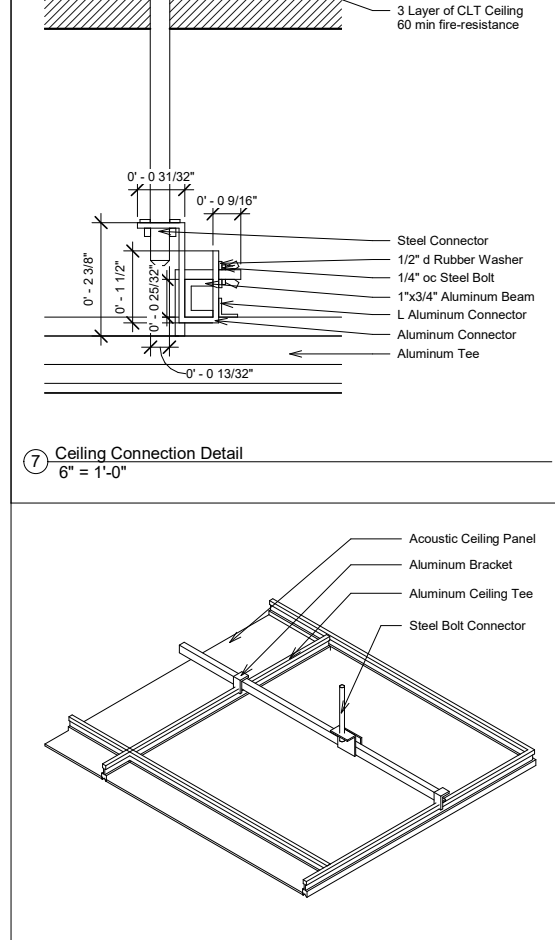
10 Finish Wall Section - Callout 1
3" = 1'-0"



11 Window Section
1" = 1'-0"



4 Stair Side View
1 1/2" = 1'-0"



5 Ceiling Tile AXO



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Date 11/05/2020

Instructor Karen Kensek

Scale 3" = 1'-0"

Half Size Set 22"x34"

Latest Revision on
10/14/2020
by
Jianghan Dong, Yufan Xie

Signature

Jianghan Dong

Yufan Xie

2 Layers of Rigid Insulation
See details on Sheet A11

Steel Handrail Height 3'

3 Layers of CLT Roof 6"

3 Layer CLT Exterior Wall

Waterproof Finishing

2 Layers of Gypsum Board

4'x2' Acoustic Ceiling Panel
1/2"x2" Aluminum Ceiling Tee

Ceiling Connector & Bolt

② Ceiling Bracket Detail Section
3" = 1'-0"

Wood Deck Finish

3 Layers of CLT Interior Floor

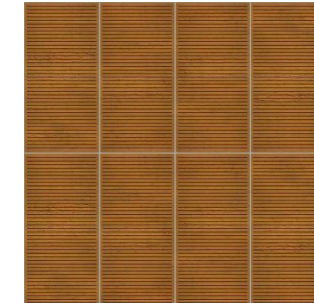
8"x16"x1/2" Steel
Bracket w/ Bolt Connector

Wood Deck Finish

3 Layers of CLT Interior Floor

① Chunk Drawing

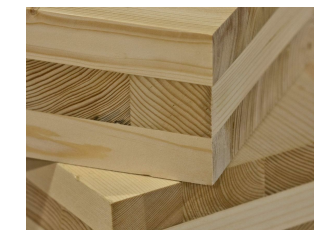
Outdoor Waterproof Finishing



Ceiling Tile
Manufacturer: Armstrong Ceiling Solutions

ACT-Armstrong Ceilings-
WOODWORKS_Channelled_Tegular-6685W9PLC
Suspension System: 15/16" Exposed Tee - 15/16" x 2
7/16" - White - 9/16" Bolt Slot - 1/4" Reveal
Suspension System

Solar Fence



Cross Laminated Timber

Manufacturer: Think Wood, Inc
3 Layer CLT Exterior Wall w/ Gypsumboard
Insulation
CLT panels consist of layered lumber boards
(usually three, five, or seven) stacked crosswise at
90-degree angles and glued into place. Finger joints
and structural adhesive connect the boards. Board
thickness typically varies between 5/8 inch to 2
inches, with board width ranging from 2.4 to 9.5
inches. The panels can be manufactured at custom
dimensions, though transportation restrictions
dictate their length.

Wide Flange
12x18



Angled Bracket - BNV33

Manufacturer: strongtie.lv

Declarations of Performance : UK-DoP-e06/0106;
Technical approvals : ETA-06/0106;
Material
Steel quality:
S250GD + Z275 according to DIN EN10346

Corrosion protection:
275 g / m galvanized on both sides 20mm

Benefits
• Easy installation
• Connecting to concrete and wood

Applicable materials
Concrete, steel, wood, wood products



Firm: University of Southern California
Watt Hall, USC Campus, Los Angeles, CA 90089

Consultant: Think Wood
Address: West Linn, Oregon
Website: https://www.thinkwood.com/
e-mail: info@thinkwood.com

Sheet List

Sheet Name	Sheet Number
Title Sheet	A1
Plot plan	A2
Ground floor plan	A3
Typical floor plan (Underground & Equipment)	A4
Roof Plan	A5
System Coordination (Structural Plan)	A6
Exterior Elevations	A7
Building Section	A8
Schedules & Legends	A9
Large scale wall sections	A10
Details	A11
Chunk Detail Drawing	A12
ADA Cut Sheet	A13

Ant-Farm Project

Designer

Jianghan Dong
USC ID: 1195740173

Yufan Xie
USC ID: 8932386568

A13
ADA Cut Sheet

Project Address:
1745 N Spring St, Los Angeles, CA 90012

Architecture 526, Fall 2020

Date 11/05/2020

Instructor Karen Kensek

Scale As indicated

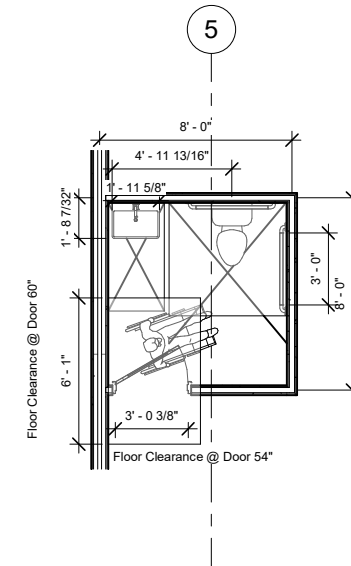
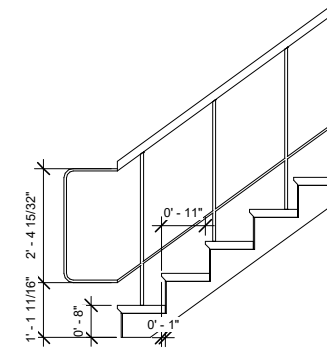
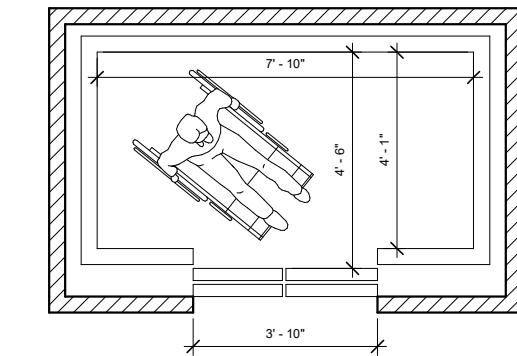
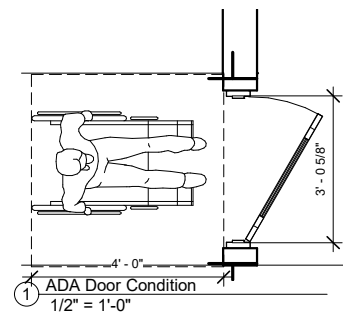
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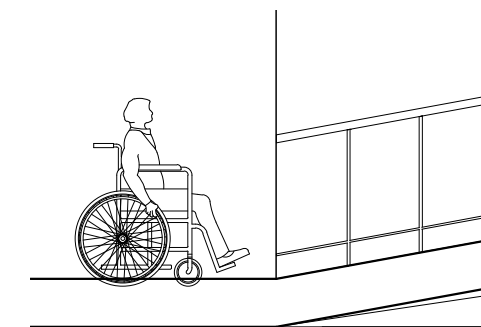
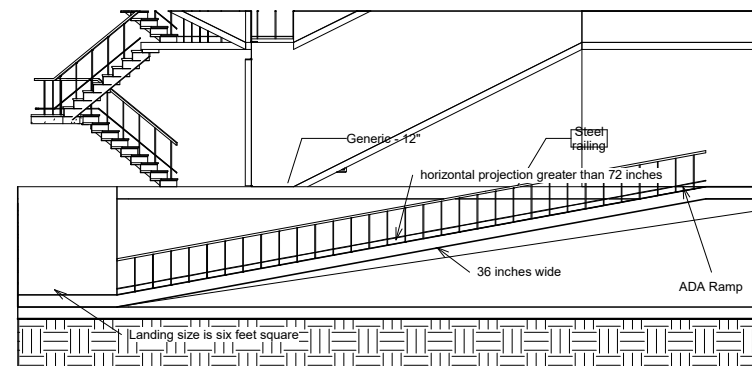
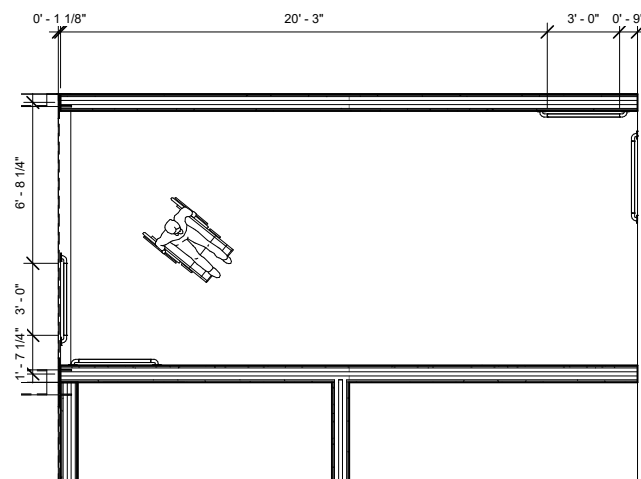
Yufan Xie



② ADA Elevator
1/2" = 1'-0"

③ ADA Stair
1/2" = 1'-0"

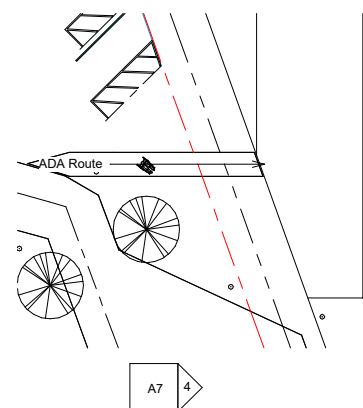
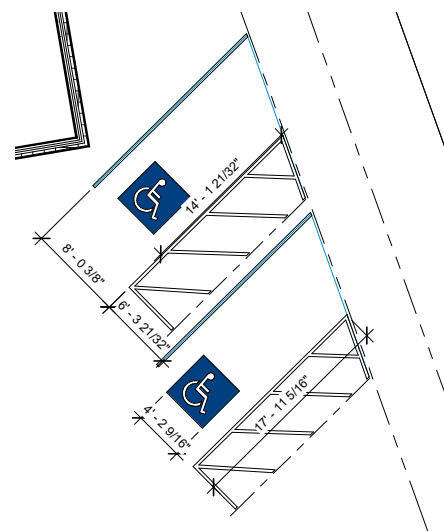
⑤ ADA Restroom
1/4" = 1'-0"



⑦ ADA Corridor Condition
1/4" = 1'-0"

④ ADA Accessible ramp

⑥ ADA ramp Condition



⑧ ADA Parking
1/8" = 1'-0"

⑨ ADA Route
1" = 20'-0"