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NO.	DATE	REVISION
01	-- OCT 2021	SD SUBMISSION
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GSAPP

Cover Sheet

Project number	21001
Date	Dec. 17, 2021
Scale	NTS

T000



CENTER FOR TIMBER STUDY - P.S. 64

350 E 10th Street, New York, NY 10009

100% DD Submission Set

ATIV - ABKST

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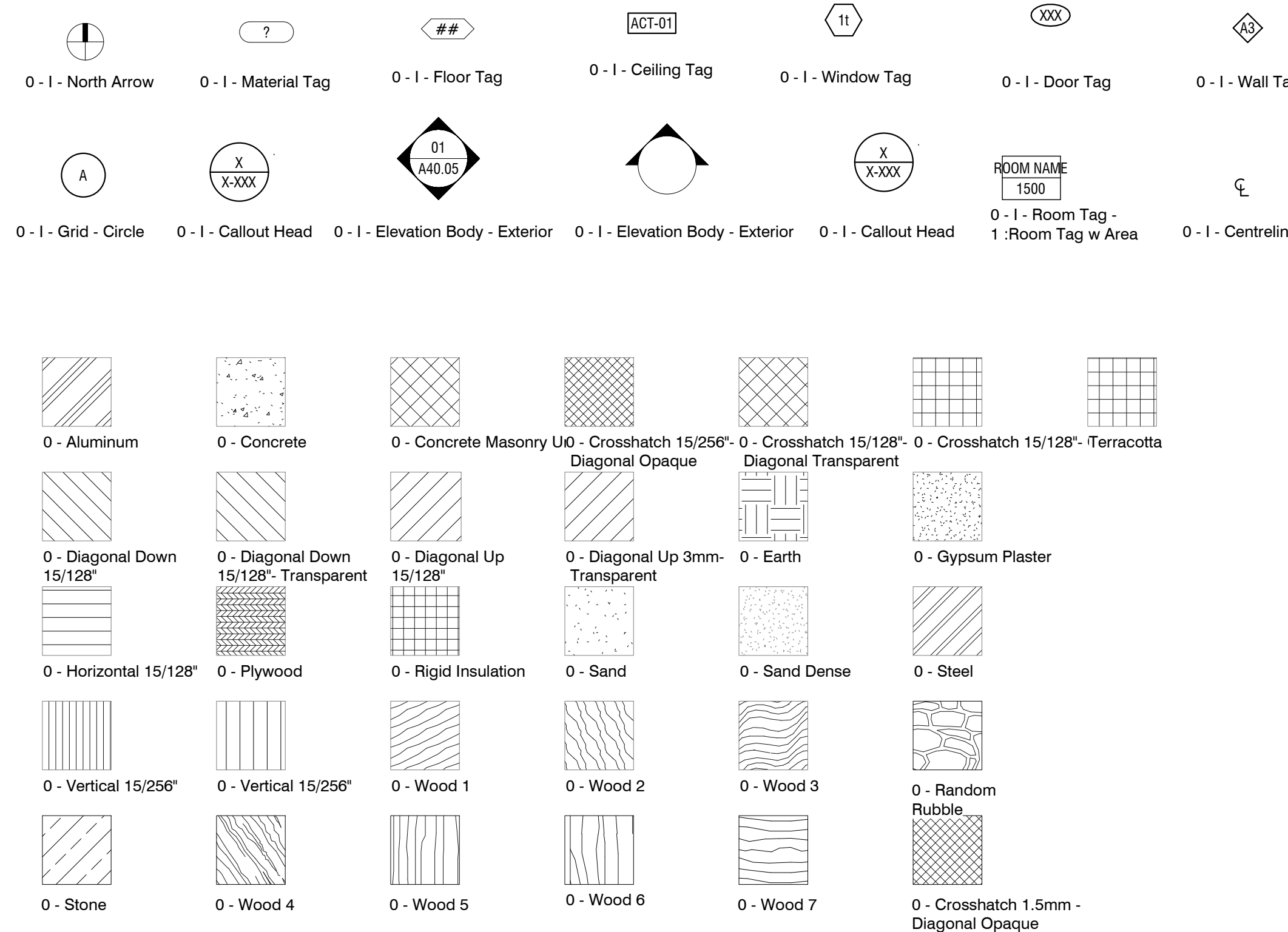
Drawing Abbreviations

Abbrev	Description
ACOUS	Acoustical
ADJ	Adjustable
ARCH	Architectural
BATT	Fiberglass Batt Insulation
BD	Board
CLG	Ceiling
CLR	Clear(ance)
CLT	Cross-Laminated Timber
CMU	Concrete Masonry Unit
COL	Column
CONC	Concrete
CONST	Construction
CONT	Continuous
D	Depth
DIA	Diameter
DN	Down
DTL	Detail
DWG	Drawing
E	East
ELEC	Electrical
ELEV	Elevator
EQ	Equal
FT	Feet
GC	General Contractor
GLULAM	Glue-Laminated Timber
GWB	Gypsum Wallboard
GYP BD	Gypsum Board

Abbrev	Description
HT	Height
HVAC	Heating, Ventilation, and Air Conditioning
IGU	Insulated Glazing Unit
INFO	Information
JAN	Janitor
LAM	Laminate
LAV	Lavatory
MAT	Material
MAX	Maximum
MECH	Mechanical
MEP	Mechanical, Electrical and Plumbing
MFG	Manufacturing
MFR	Manufacturer
MIN	Minimum
MISC	Miscellaneous
MUL	Mullion
MW	Mineral Wool
N	North
NIC	Not in Contract
NRC	Noise Reduction Coefficient
NTS	Not to Scale
OC	On Center
OPP	Opposite
PLAS	Plastic Laminate
PLY	Birch Plywood
PSF	Pounds per Square Foot
PSI	Pounds per Square Inch
PT	Painted

Abbrev	Description
R	Radius
REF	Refer To
REQ'D	Required
RM	Room
S	South
SCHED	Scheduled
SIM	Similar
SPEC	Specifications
SQ	Square
STC	Sound Transmission Coefficient
STD	Standard
STL	Steel
STN	Stone
STRUCT	Structural
TERRA	Terracotta
TYP	Typical
UON	Unless Otherwise Noted
VERT	Vertical
W	Width, West, Wide
W/	With
WC	Water Closet
WD	Wood

Drawing Symbols



Architecture Notes

- The intent of the drawings and specifications is to provide for a watertight and weathertight building. The contractor shall review all details relating to this intent and by bidding or entering into this construction contract warrants for one full year the adequacy of these details. Should the contractor take exception to these details, the general contractor shall notify the architect prior to bidding. Any deviation from this general intent should be brought to the attention of the architect for clarification.
- The building shall be constructed in full compliance with all applicable codes, ordinances, and regulations, as well as the drawings and specifications. Any code deficiencies in the drawings recognized by the general contractor should be brought to the attention of the architect for clarification.
- The contractor shall be responsible for the accurate placement of the building on the site and verify all dimensions and existing conditions. Discrepancies between drawings and actual site conditions shall be brought to the attention of the architect before bidding the project or the commencement of work. The owner shall not be responsible for changes to the work due to the failure of the contractor to familiarize themselves with existing conditions.
- The intent of the drawings and specifications is to provide for a plumb, level, and square structure unless otherwise noted. Any deviation from this general intent should be brought to the attention of the architect for clarification.
- Do not scale drawings: all dimensions shall have preference over scale and shall be field verified and coordinated with work of all trades. If no dimensions are given or discrepancies are found, the general contractor shall notify the architect for clarification before bidding or commencing work.
- Details are intended to show method and manner of accomplishing work. Minor modifications may be required. All are included as part of the work.
- The contractor shall provide all permits and inspections necessary for the proper execution of the work in accordance with applicable codes and governing regulations.
- The contractor shall verify sizes and locations of all mechanical and electrical equipment pads/bases, as well as power, water, and drain requirements for such equipment MFR deviation of the aforementioned requirements should be brought to the attention of the architect for clarification.

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Drawing Index

Project number	21001
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G001

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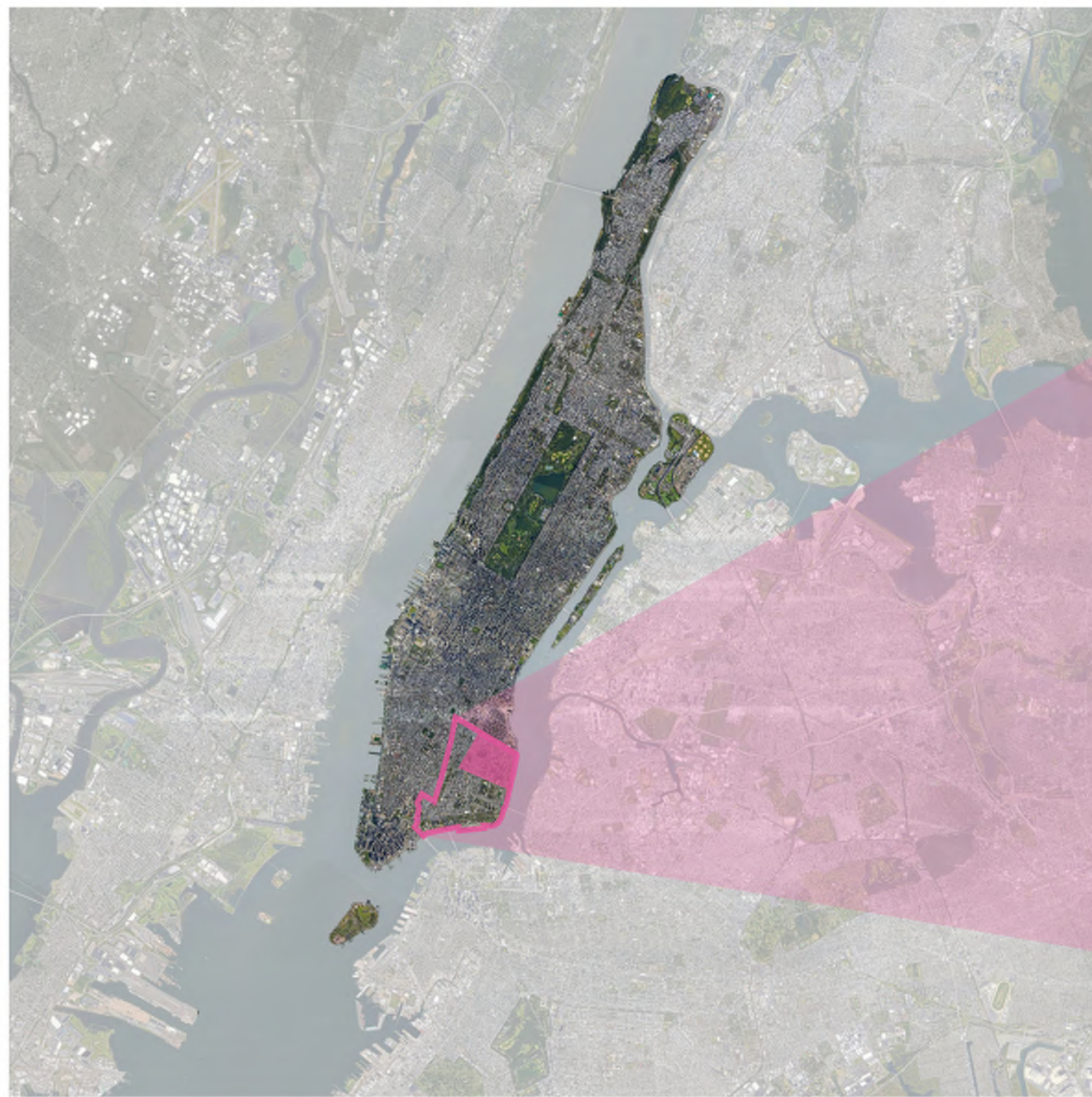
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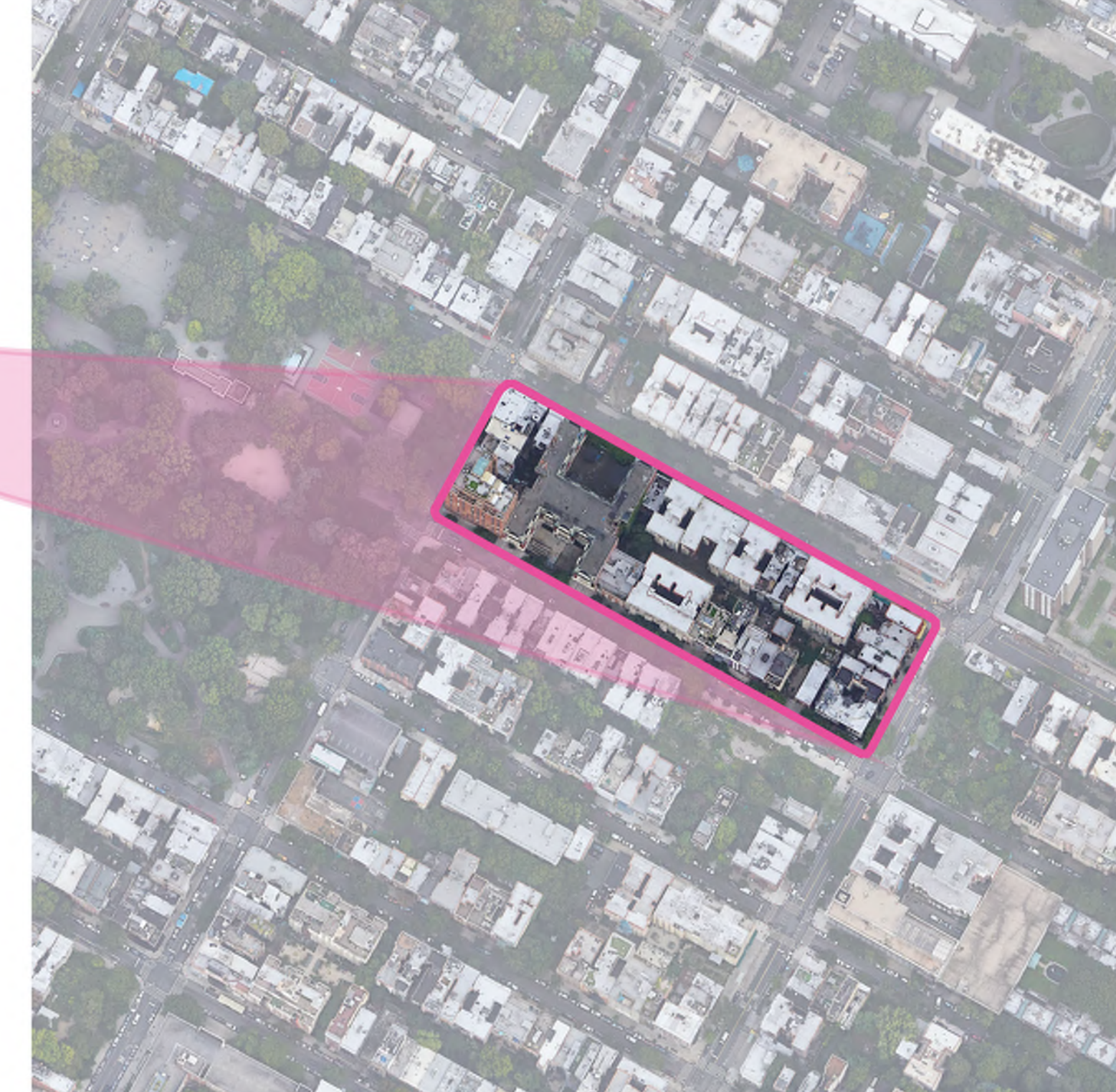
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COMMUNITY DISTRICT 3



NEIGHBORHOOD: ALPHABET CITY



ADDRESS: 350 E 10TH STREET

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Context

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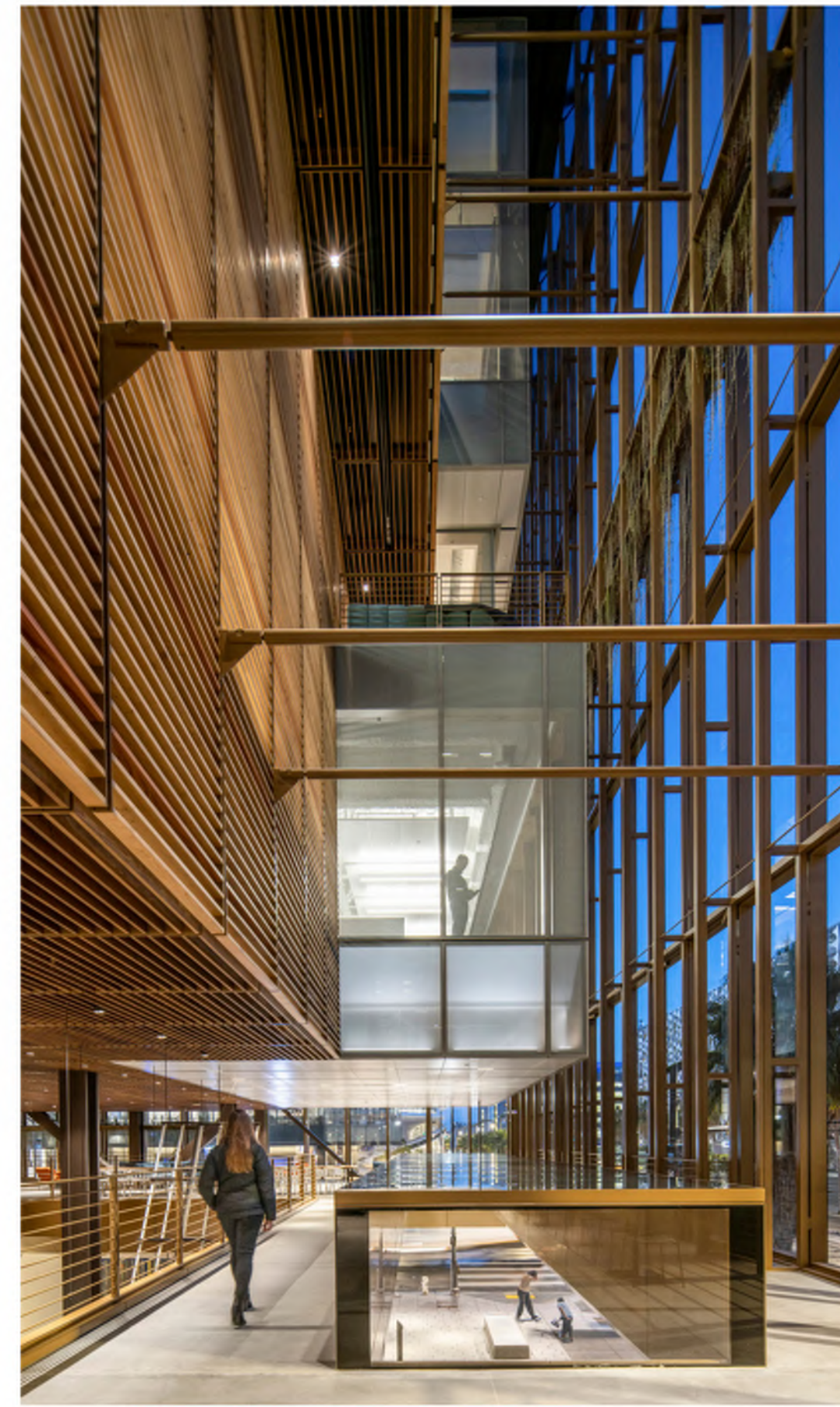
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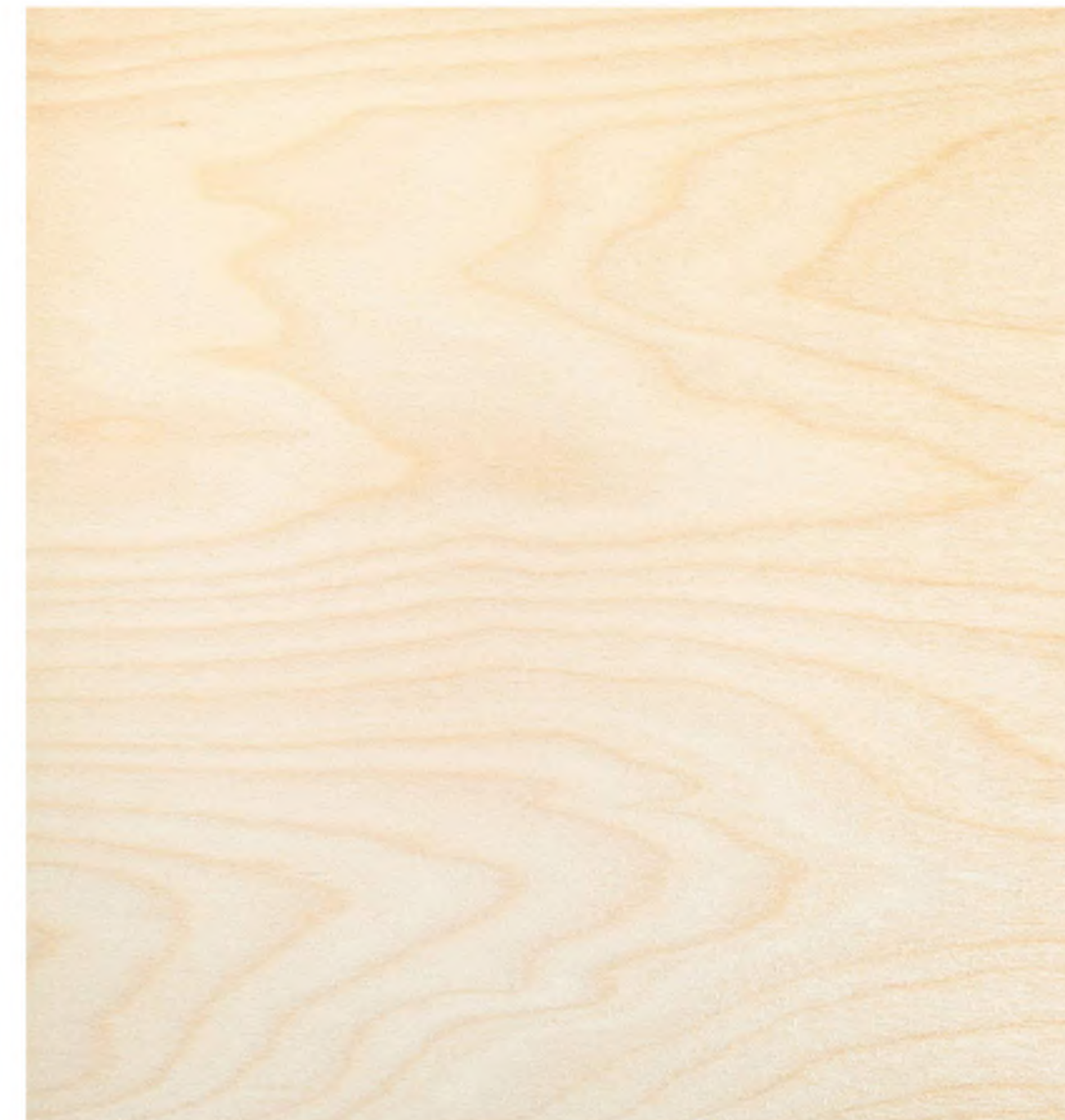
Import Building, Studio RHE, London



Uber Headquarters, SHoP Architects, San Francisco



Trumpf Daycare, Barkow Leibinger, Germany



The Dutch Mountains, Studio Marco Vanmeulen, Eindhoven



House in Beaune, Atelier Ordinaire, France

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Precedent and Approach

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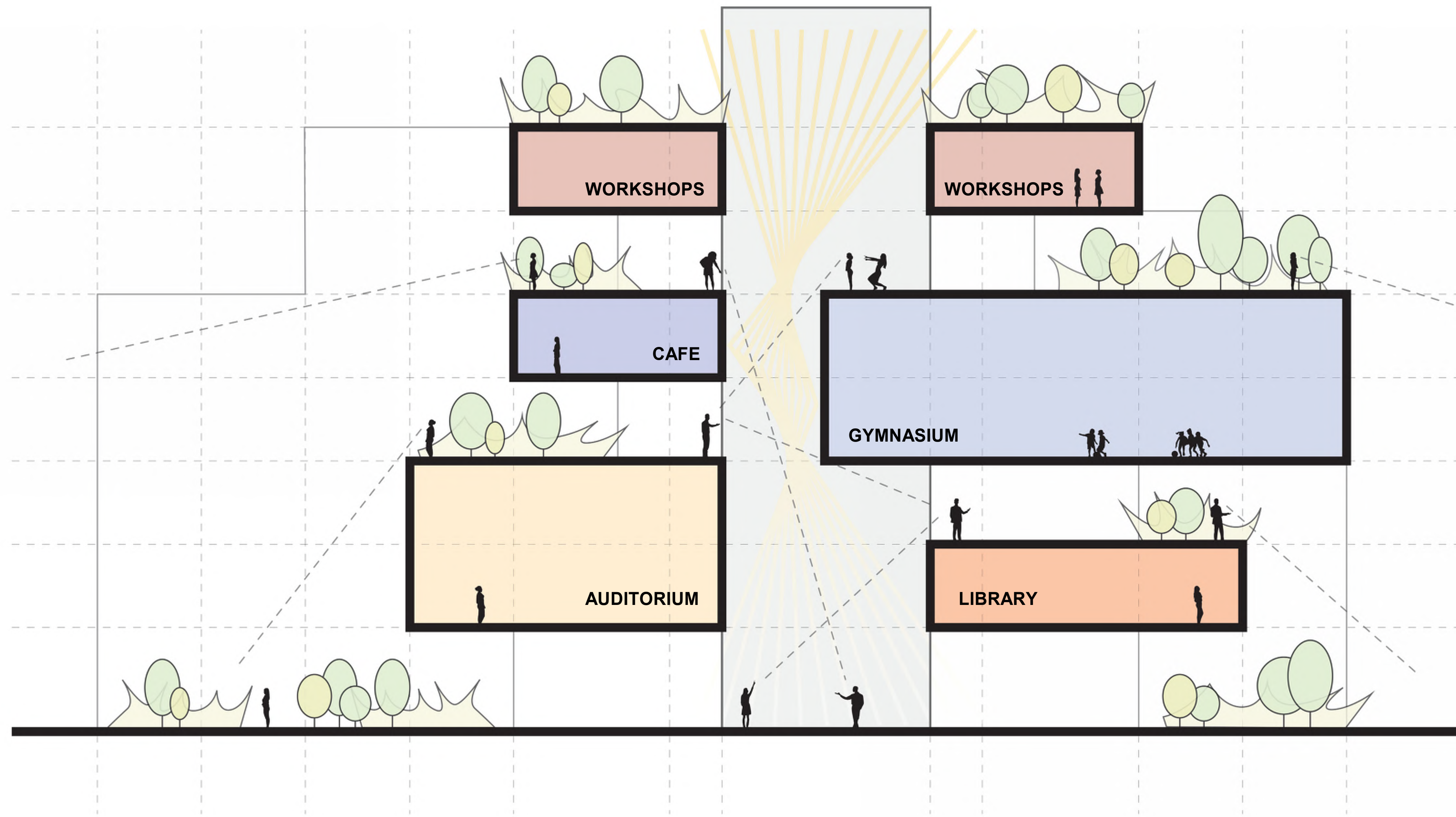
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SIX PROGRAMMATIC VOLUMES BUFFERED BY GARDEN TERRACES AND JUXTAPOSED TO CREATE A DYNAMIC, INTERIOR ATRIUM SPACE

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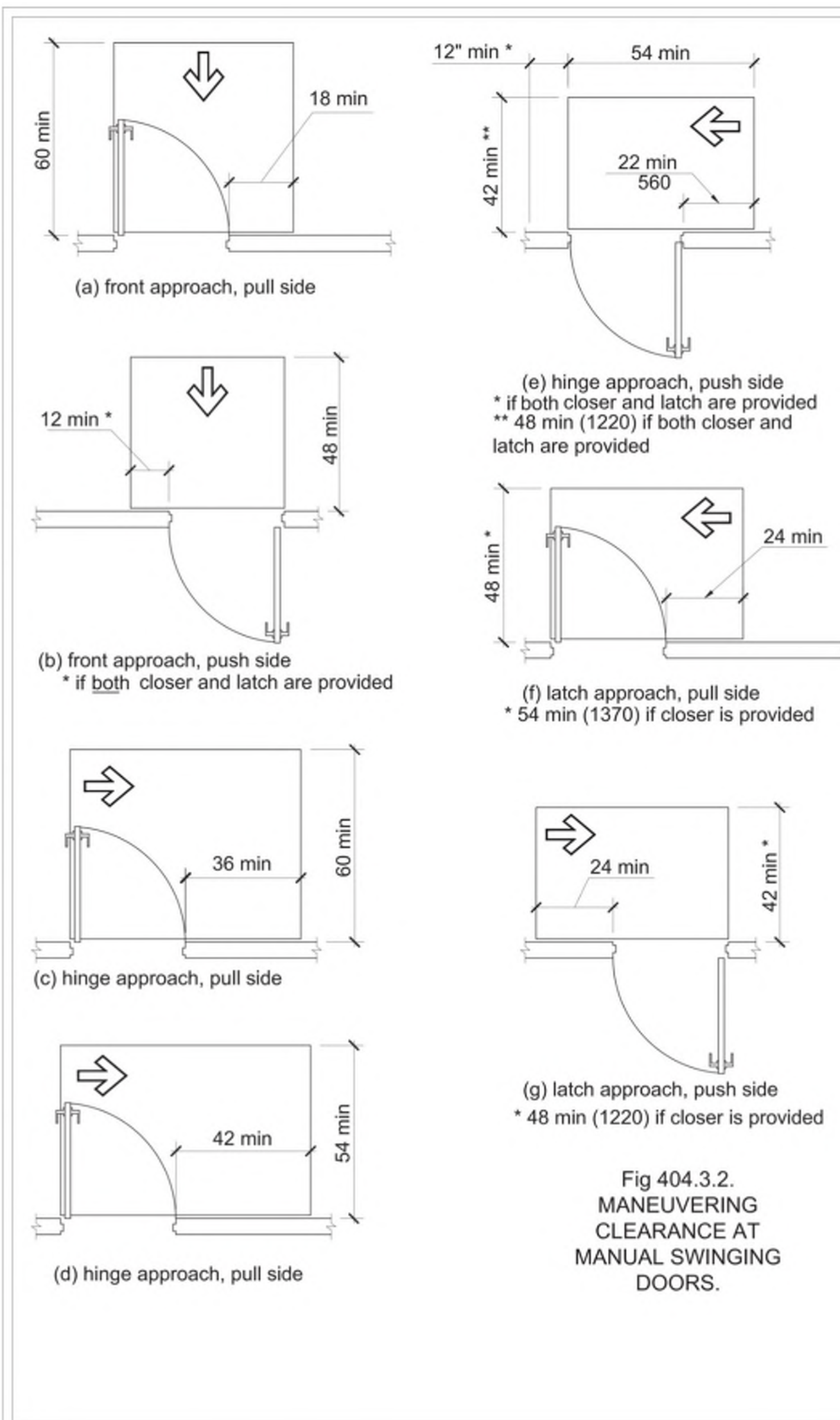
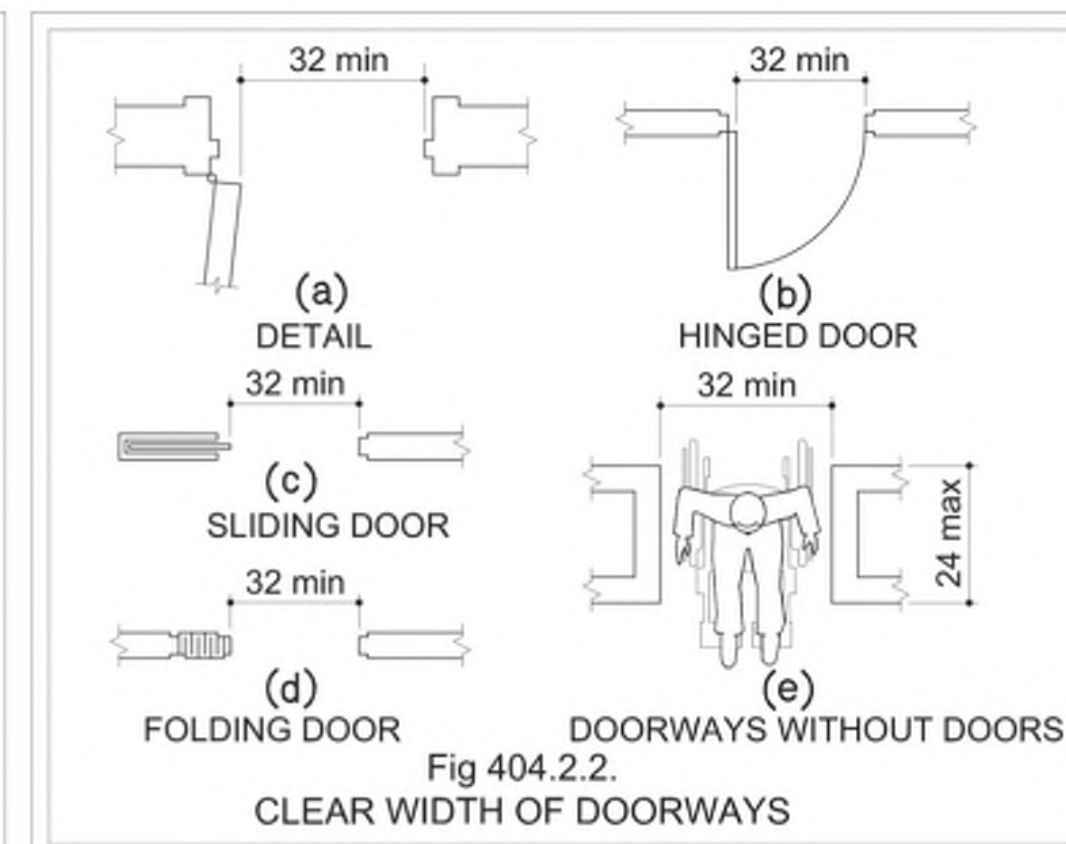
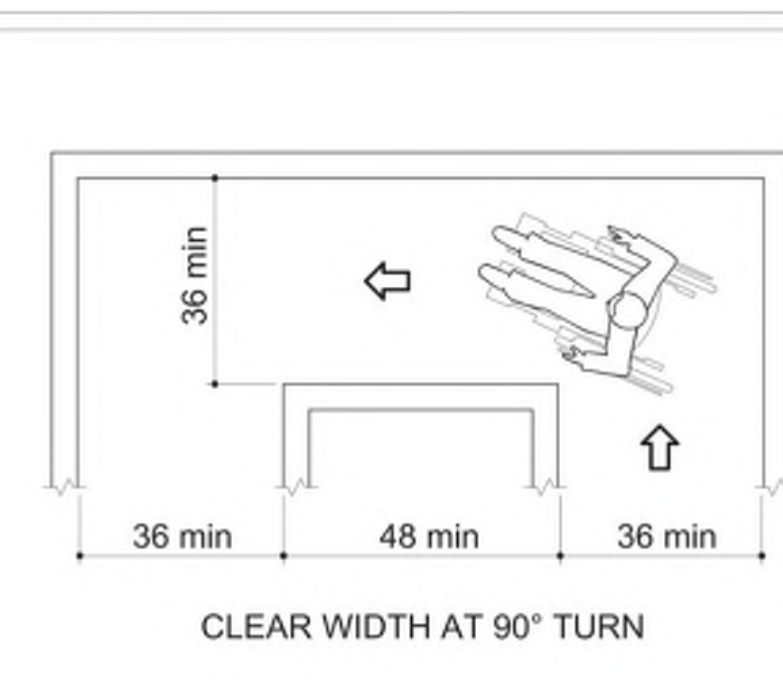
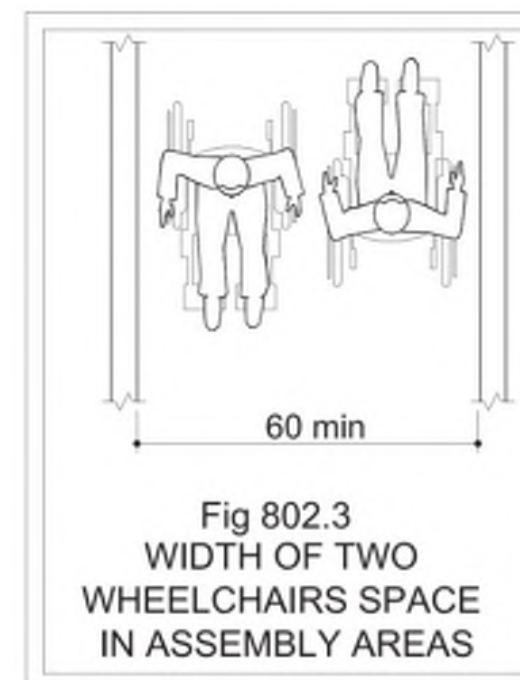
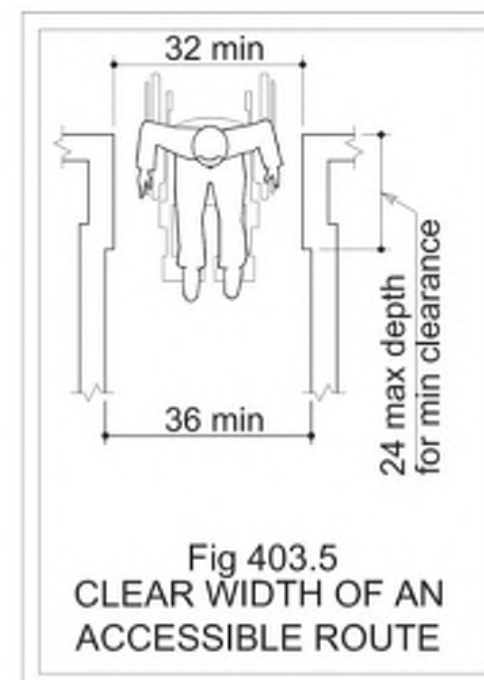
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Concept Diagram

Project number	21001
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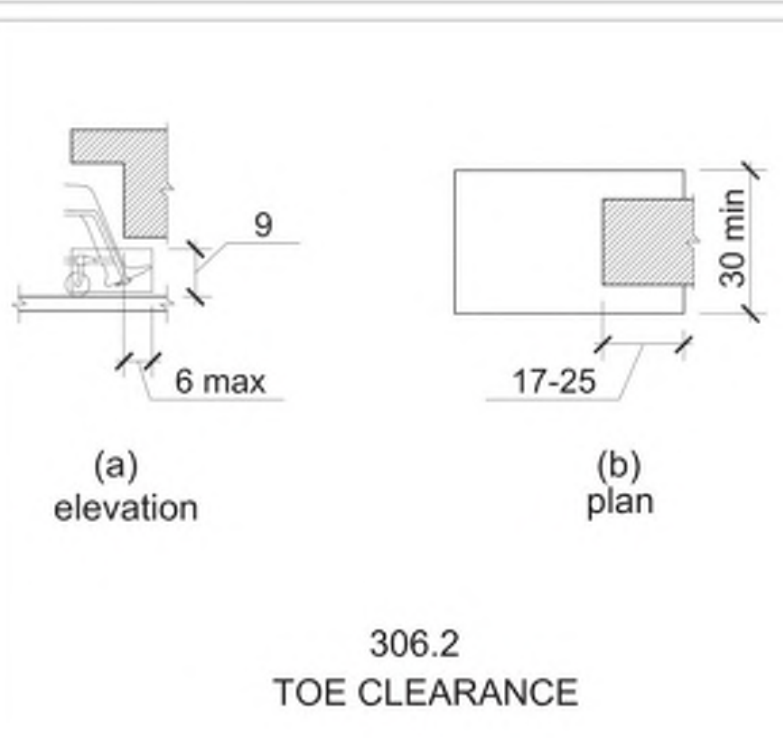
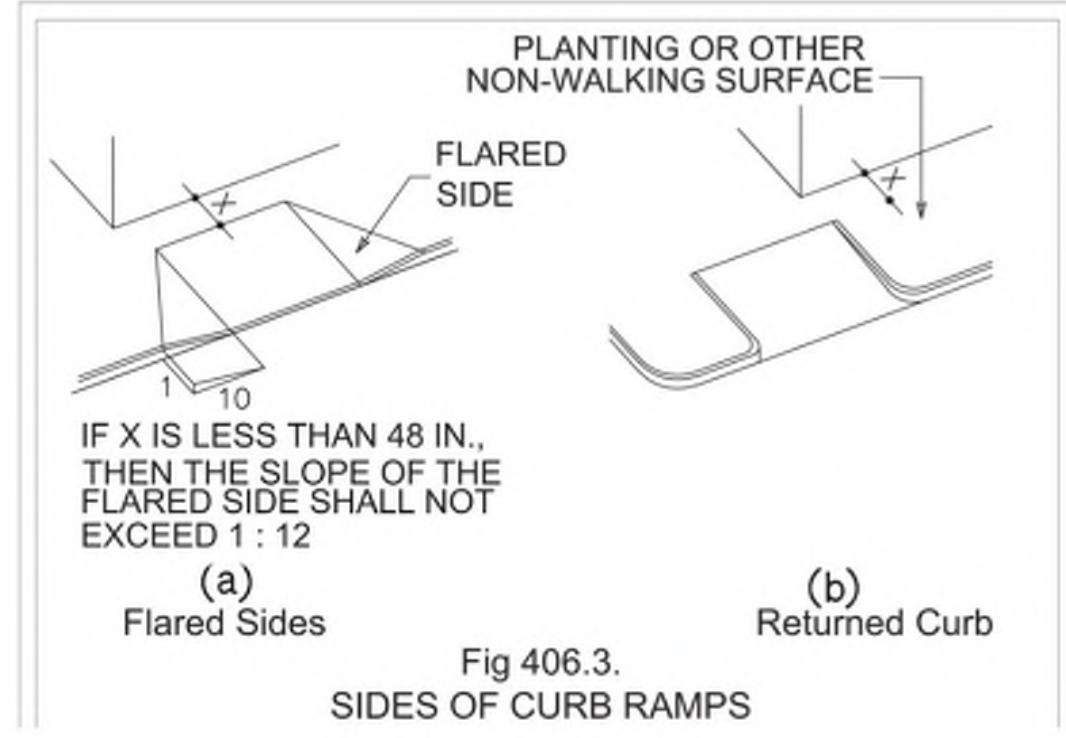
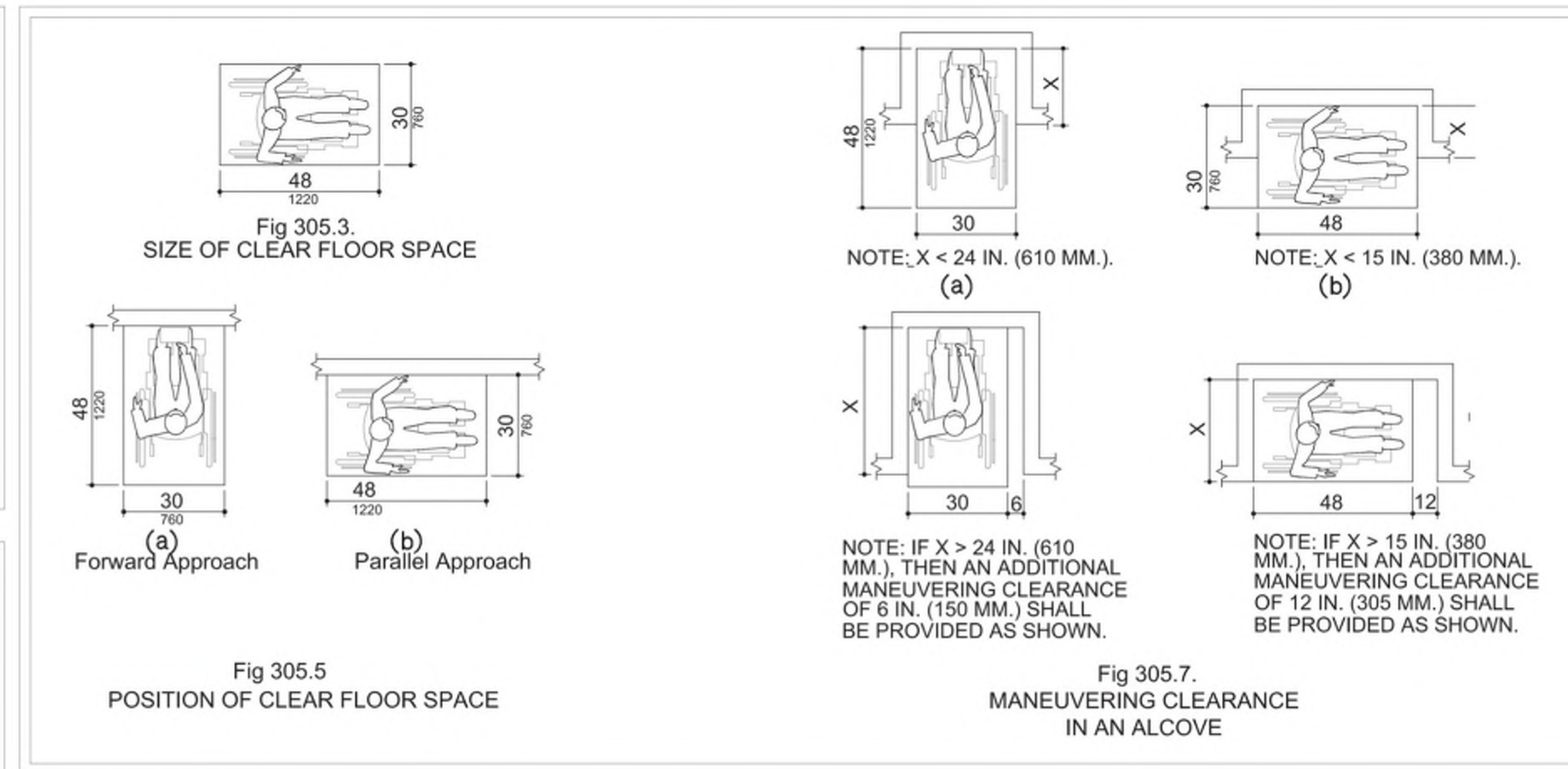
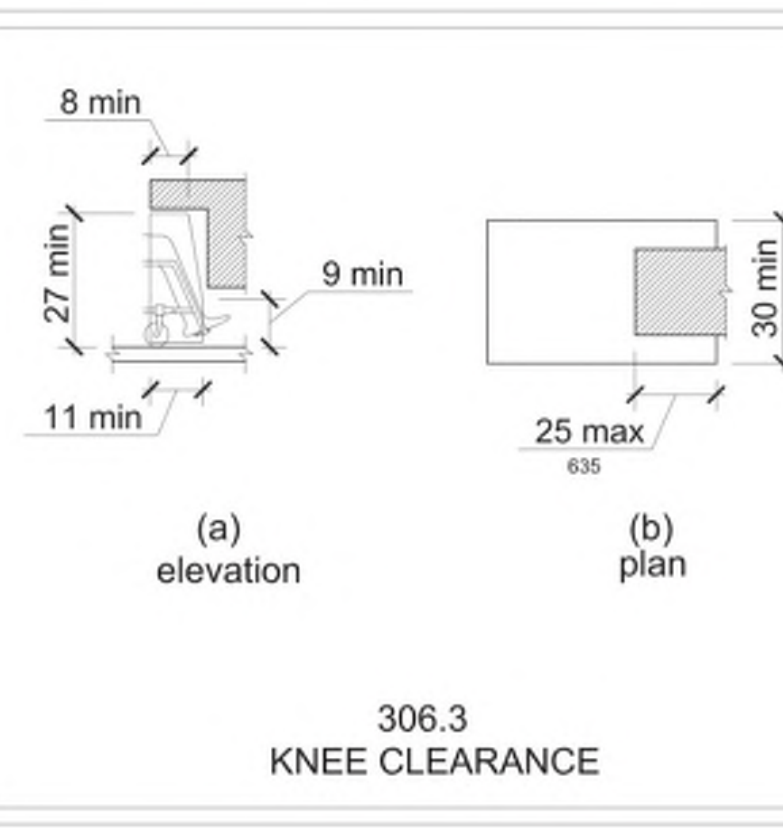
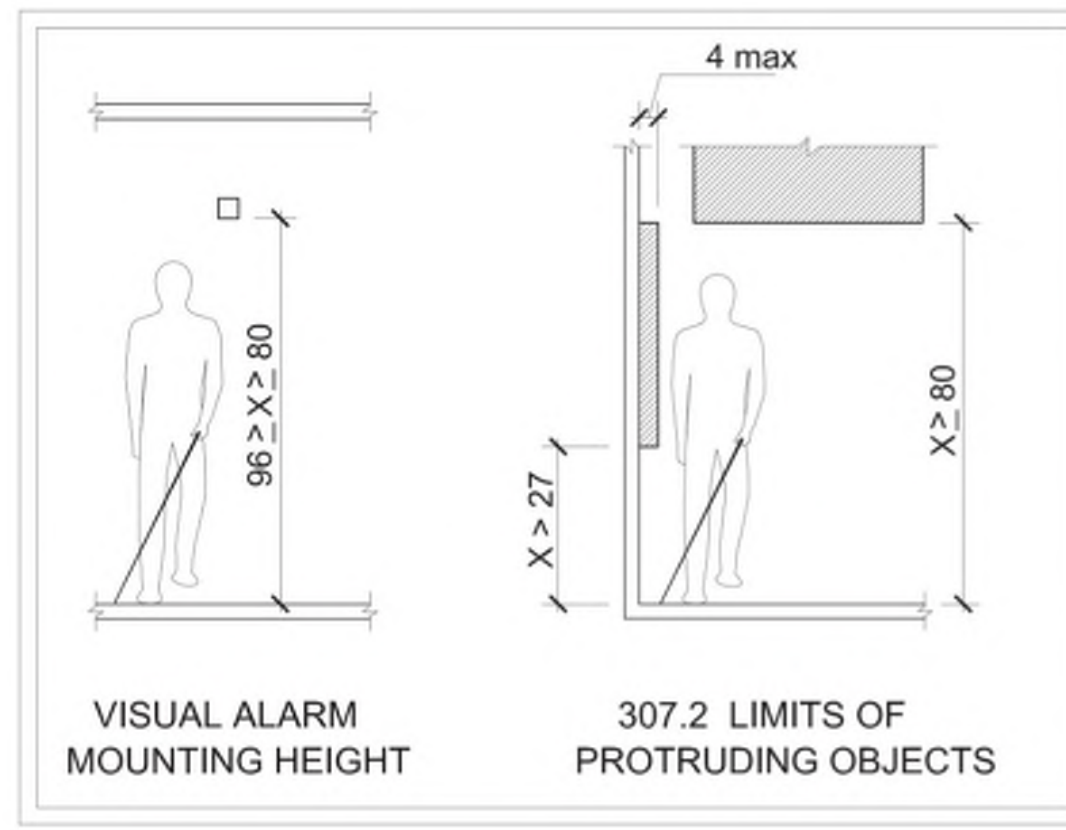
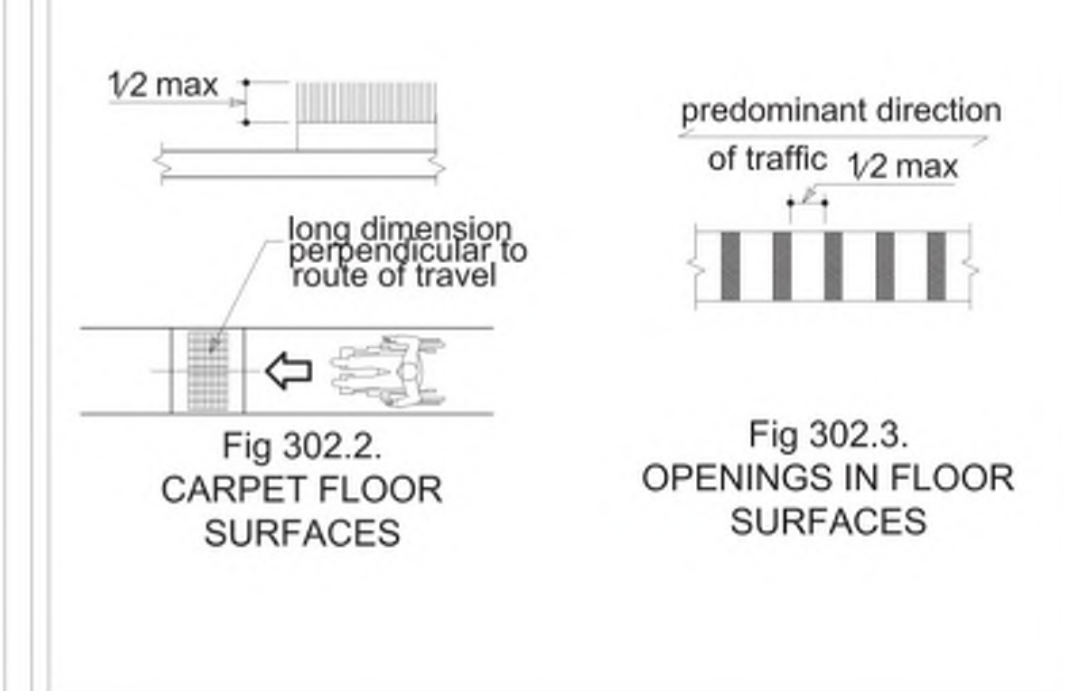
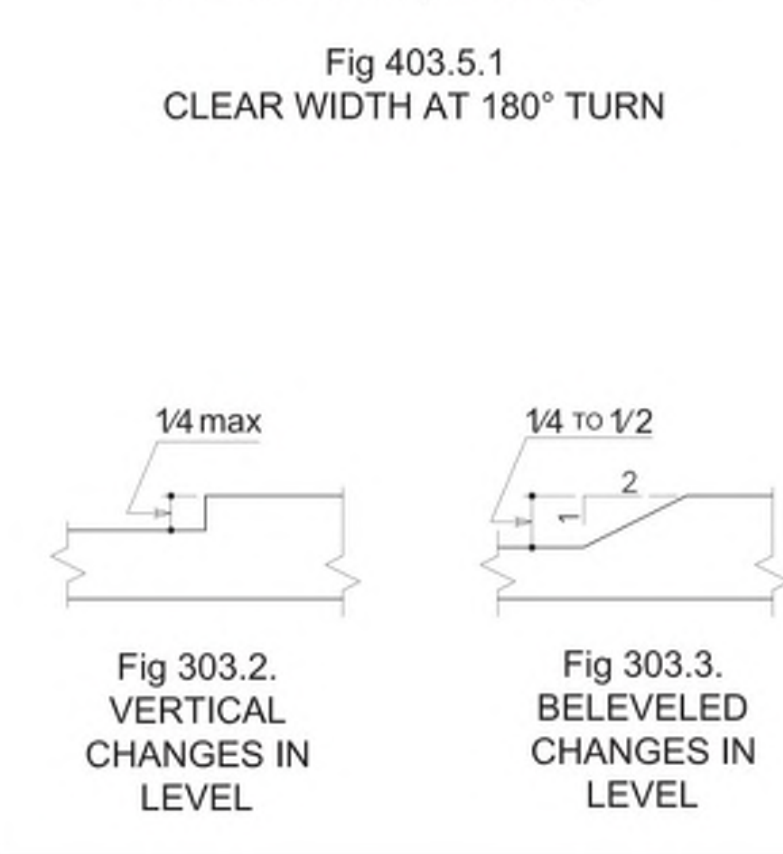
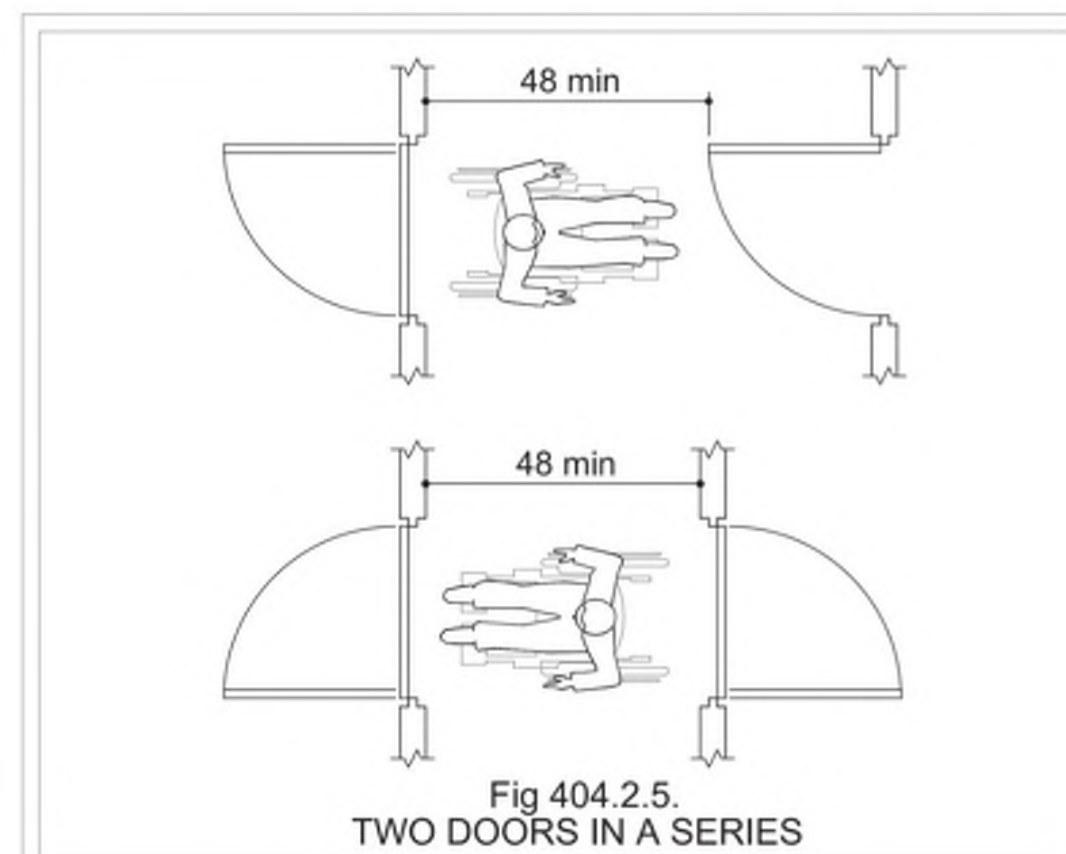
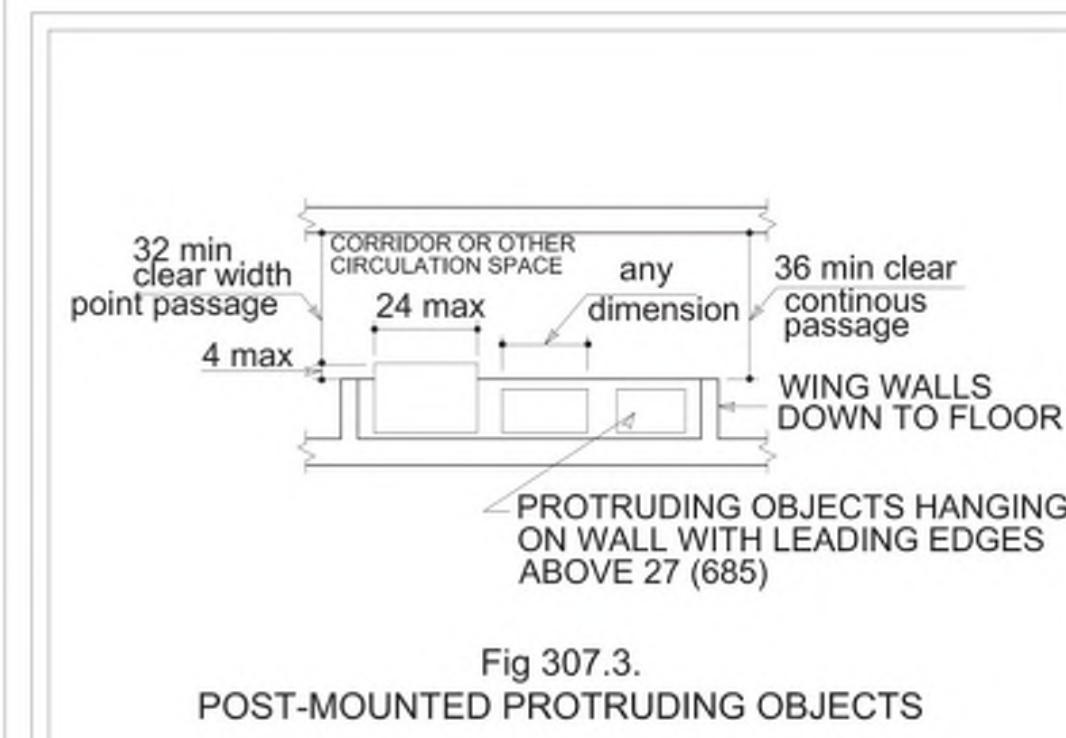
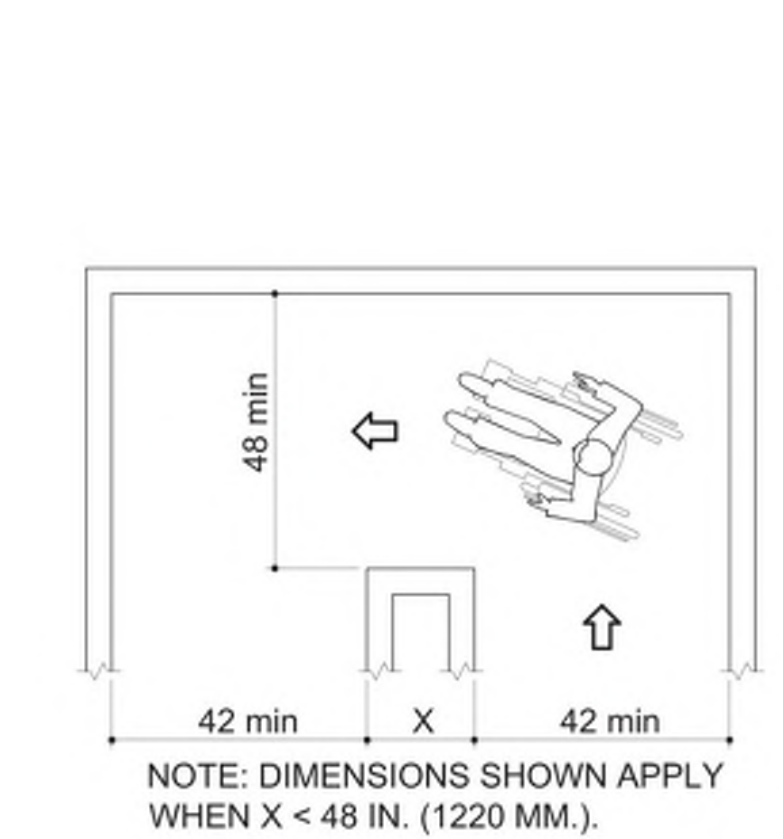
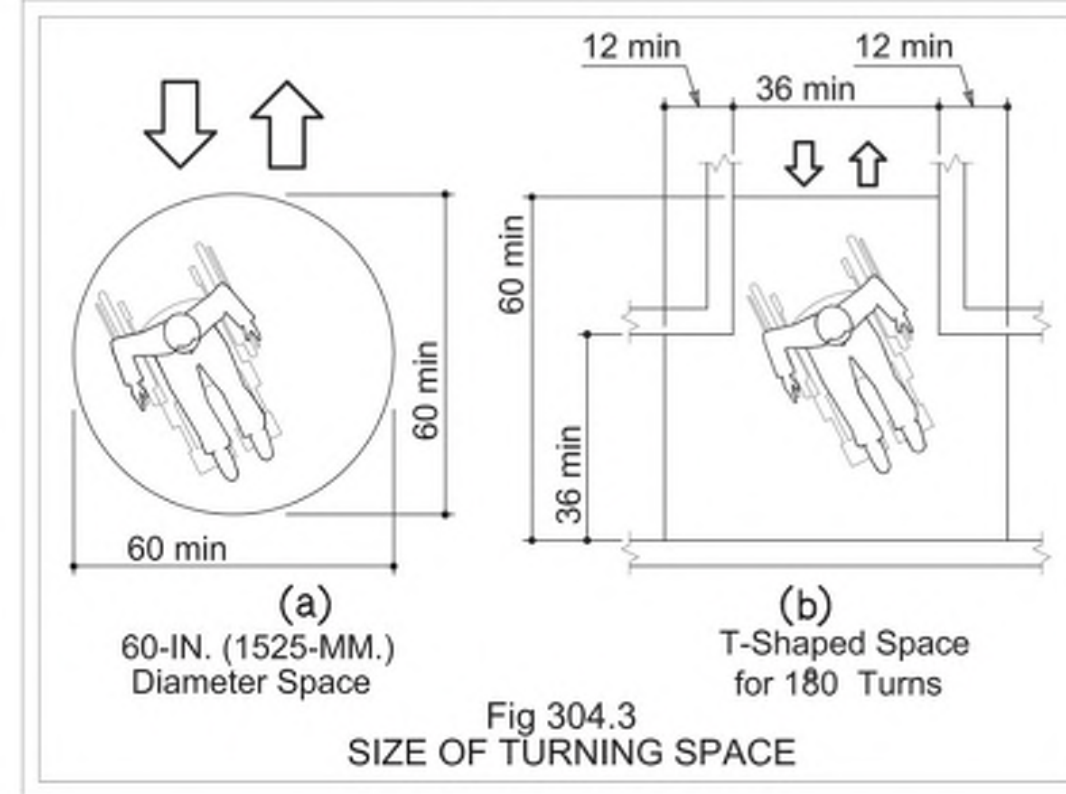
G004

NEW YORK CITY ADA DIAGRAMS AS PER 2009 ICC/ ANSI A117.1



MIN. HEIGHT OF BRAILLE CHARACTERS ABOVE FLOOR

- RAISED CHARACTERS OR SYMBOLS SHALL CONFORM TO THE FOLLOWING:
 - LETTERS AND NUMBERS ON THE PERMANENT IDENTIFICATION SIGN SHALL BE RAISED 1/32" MIN. AND SHALL BE SANS-SERIFF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.
 - RAISED CHARACTERS OR SYMBOLS SHALL BE A MIN OF 5'-0" HIGH
 - PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAMS. THE BORDER DIMENSION OF THE PICTOGRAM SHALL A MIN OF 6" IN HEIGHT.
- CONTRACTED GRADE BRAILLE SHALL BE USED ON THE PERMANENT IDENTIFICATION SIGN. DOTS SHALL BE 1/10" ON CENTERS IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MIN OF 1/40" ABOVE THE BACKGROUND.
- LETTERS AND NUMBERS ON THE PERMANENT IDENTIFICATION SIGN SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1.5 AND 1:10.
- CHARACTERS AND NUMBERS ON THE PERMANENT IDENTIFICATION SIGN SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE READ. THE MIN HEIGHT IS MEASURED USING AN UPPERCASE X LOWERCASE CHARACTERS ARE PERMITTED.
- CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND.



- ADA NOTES**
- PROVIDE ACCESSIBLE MEANS OF EGRESS COMPLIANT WITH ICC/ANSI A117.1 CODE.
 - ALL TACTILE SIGNAGES TO BE MOUNTED AT 60" A.F.F. ON THE LATCH SIDE OF THE DOOR

COMMUNICATION ELEMENTS TACTILE SIGNS

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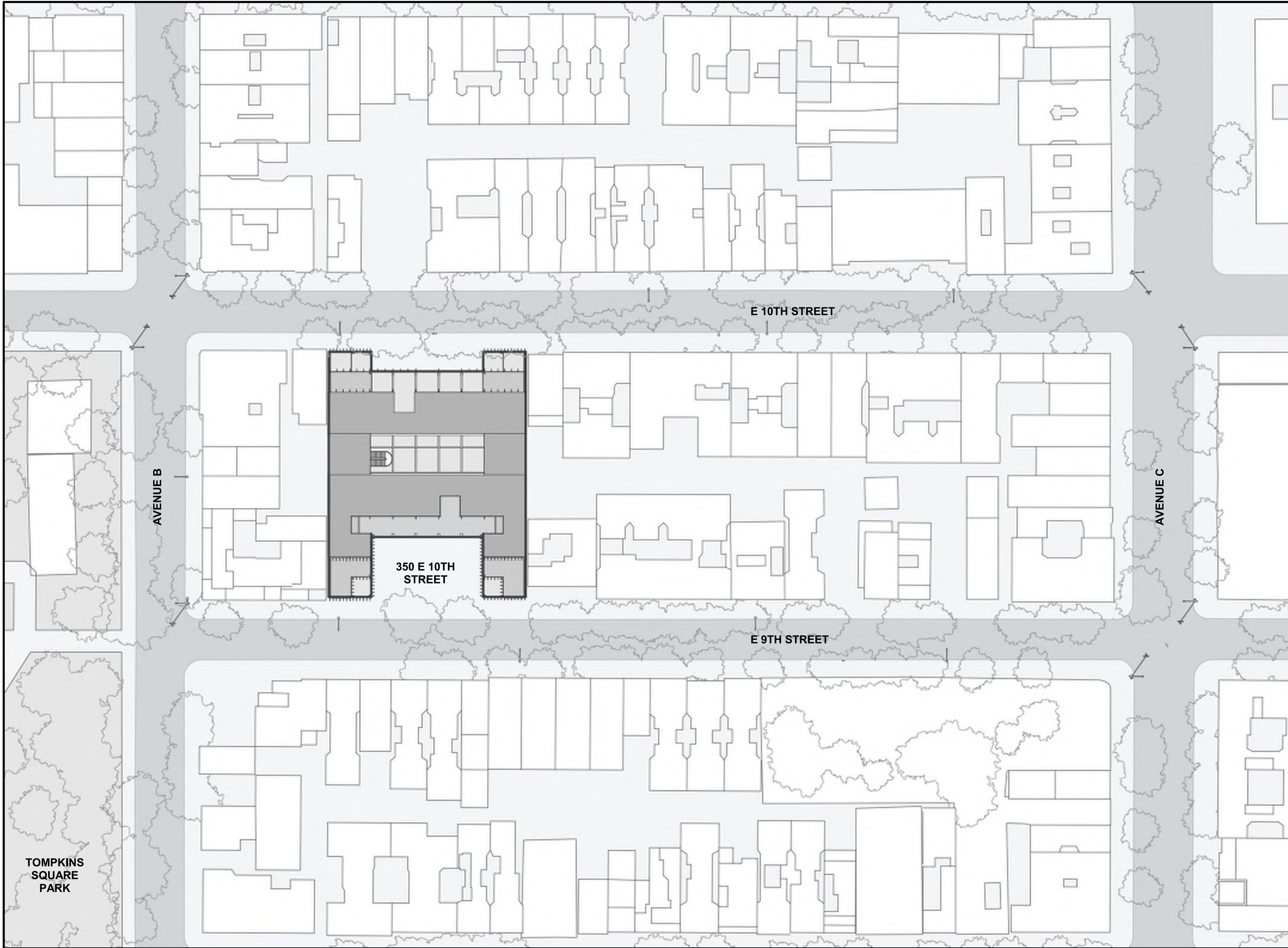
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Architectural
Notes and ADA
Diagrams

Project number	21001
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A001



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Site Plan

Project number
Date
Scale 1/32" = 1'-0"

A002

TOMPKINS
SQUARE
PARK

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Entrance from 9th Street



Atrium

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Concept Perspectives

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Egress Plans - Ground Floor

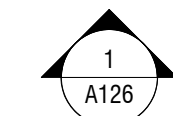
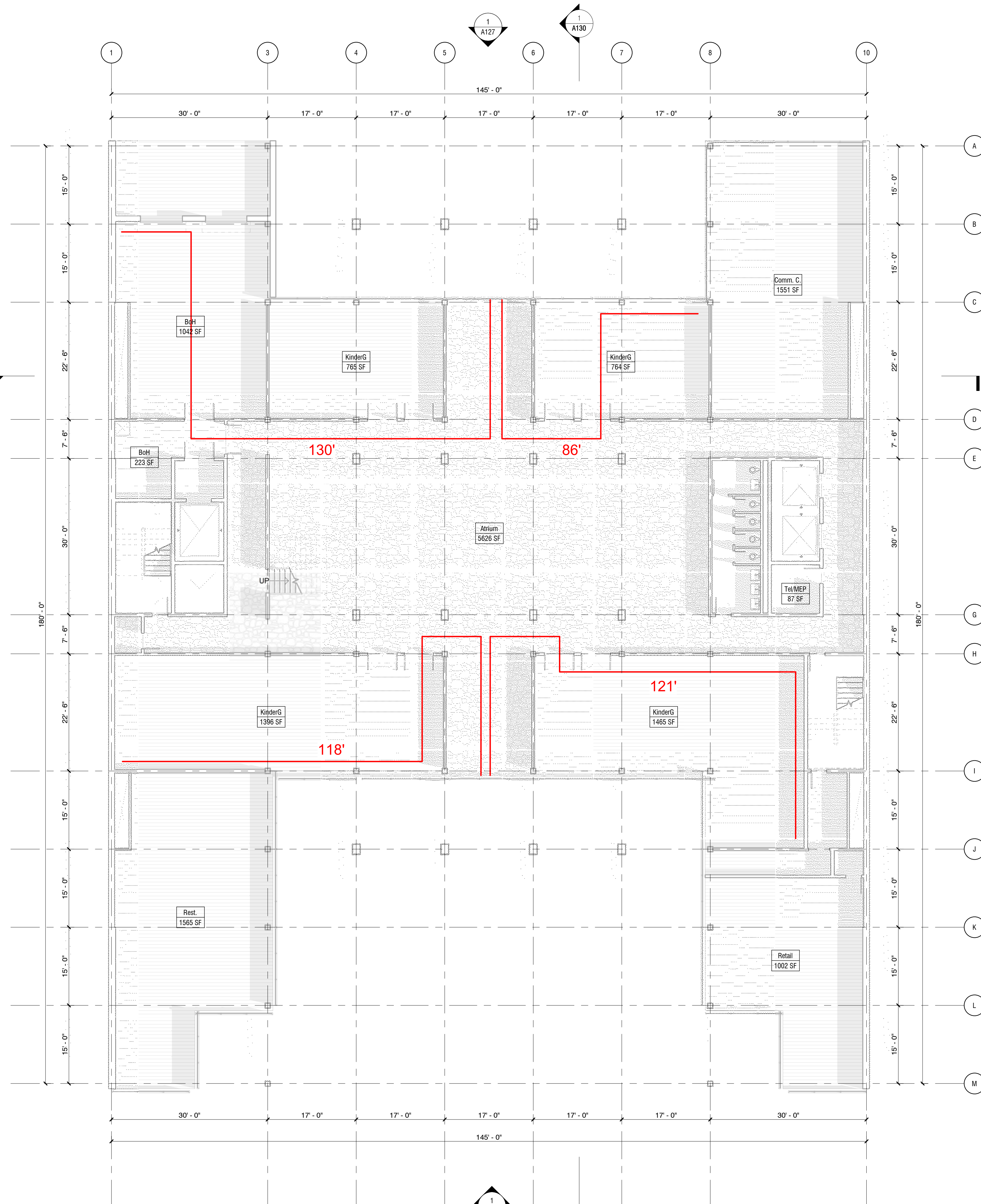
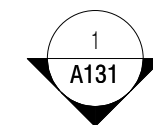
Project number

Date

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

A011

Occupancy Load - Ground Floor				
Program/Room	Use of Space	Area	Floor Area per Occupant	Total Occupant Load
Atrium	Assembly (Unconcentrated)	5626	15	375
Back of House	Mechanical	1042	300	3
Back of House	Mechanical	223	301	1
Community Center	Assembly (without Fixed Seats)	1551	7	222
Kindergarten	Day Care	765	35	22
Kindergarten	Day Care	764	36	21
Kindergarten	Day Care	1369	37	37
Kindergarten	Day Care	1465	38	39
Restaurant	Assembly (Unconcentrated)	1565	15	104
Restrooms	Business Areas	295	100	3
Retail	Mercantile	1002	60	17
Tel/MEP	Mechanical	87	302	1
Total				844



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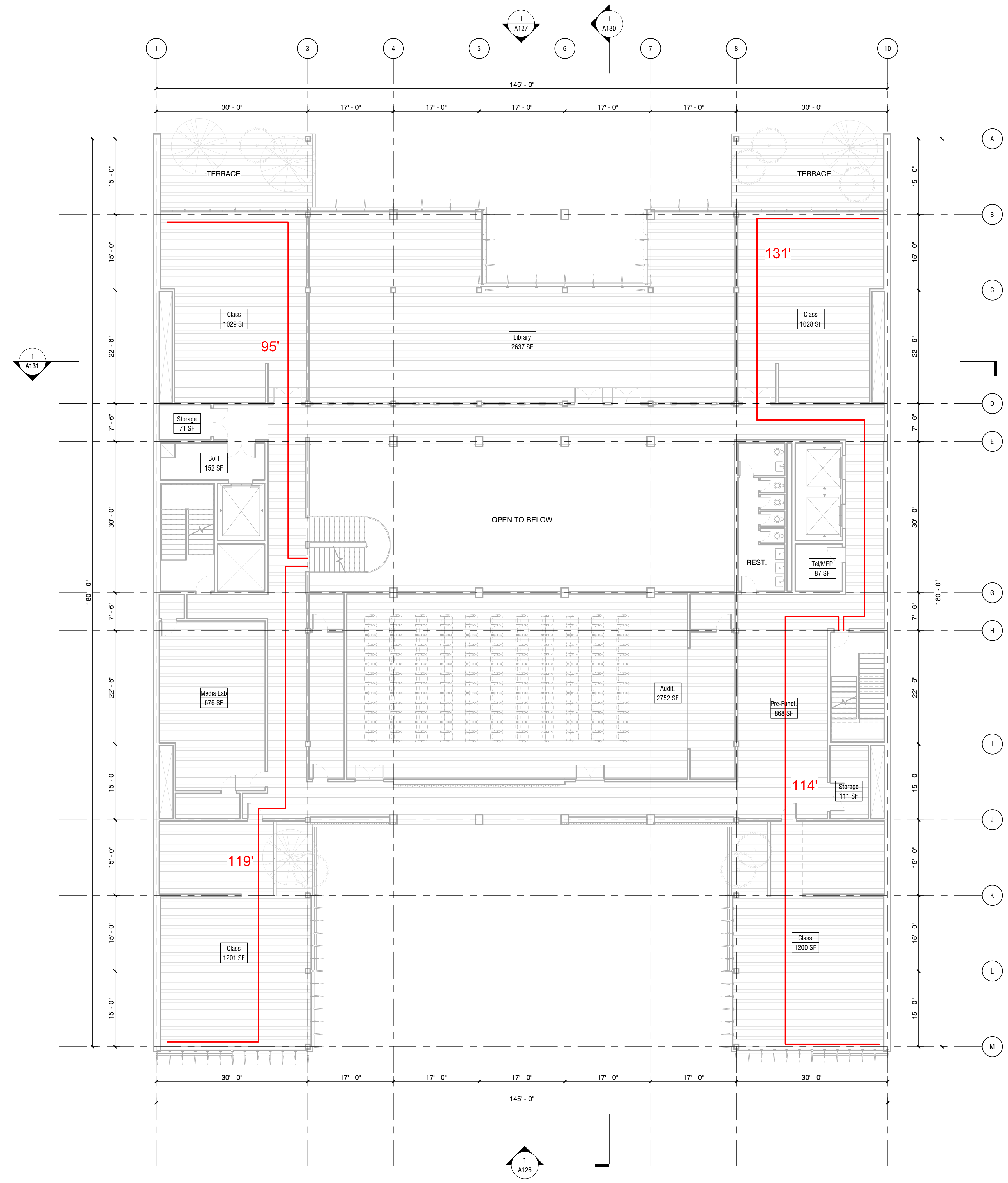
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Egress Plans - Level 2

Project number _____
Date _____
Scale 3/32 = 1' 0"

A012

Occupancy Load - Level 2				
Program/Room	Use of Space	Area	Floor Area per Occupant	Total Occupant Load
Auditorium	Assembly (fixed seats)	2752	-	143
Back of House	Mechanical	152	302	1
Classroom	Educational	1029	20	51
Classroom	Educational	1028	21	49
Classroom	Educational	1200	22	55
Classroom	Educational	1201	23	52
Library	Library	2637	75	35
Media Lab	Vocational Rooms	676	50	14
Pre-Function	Assembly (Unconcentrated)	868	15	58
Restroom	Business Areas	295	100	3
Storage	Mechanical	71	300	1
Storage	Mechanical	111	301	1
Tel/MEP	Mechanical	87	303	1
Total				463



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Egress Plans - Level 3

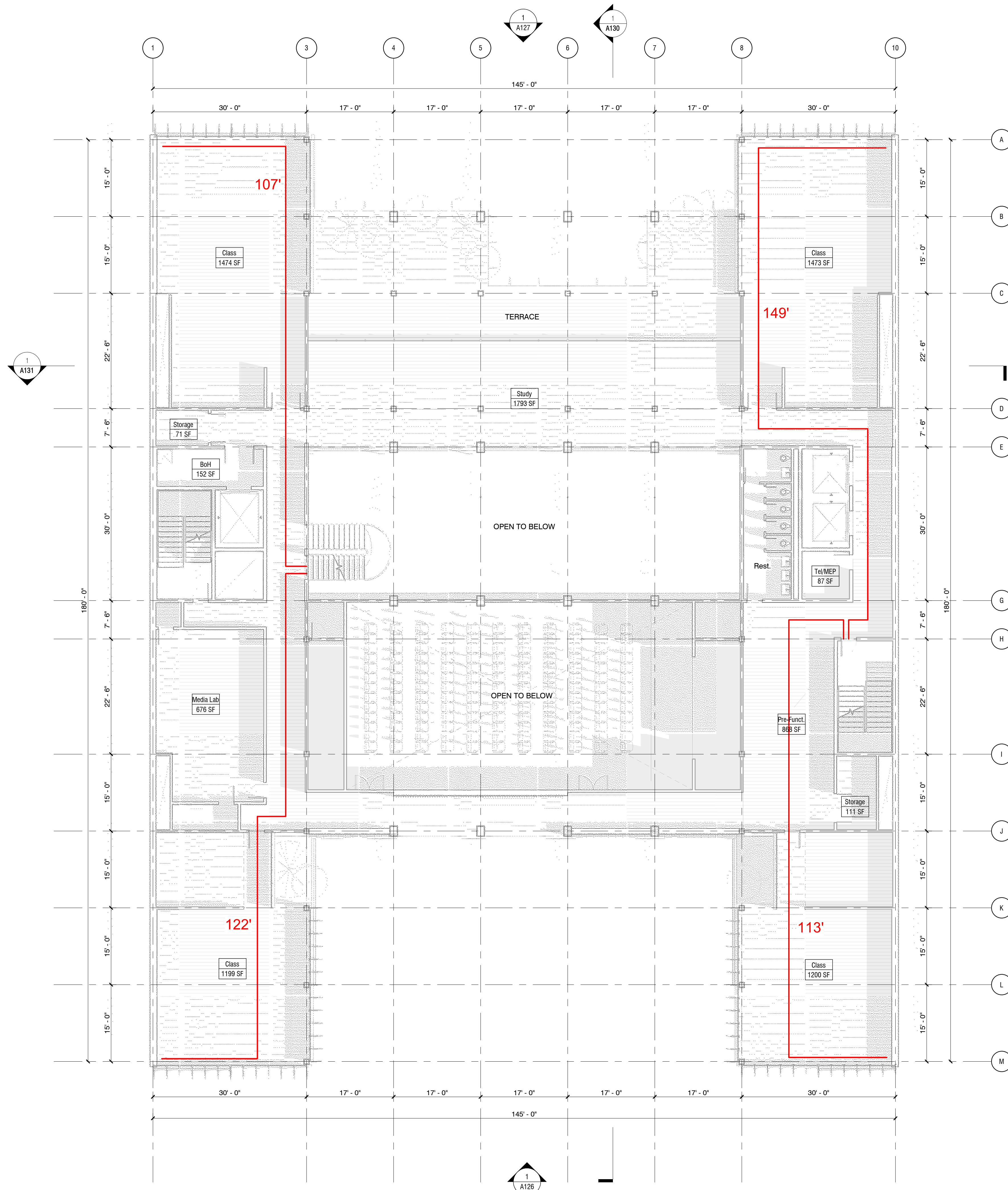
Project number

Date

Scale 3/32" = 1'-0"

A013

Occupancy Load - Level 3				
Program/Room	Use of Space	Area	Floor Area per Occupant	Total Occupant Load
Classrooms	Educational	1474	20	74
Classrooms	Educational	1473	21	70
Classrooms	Educational	1199	22	55
Classrooms	Educational	1200	23	52
Study	Reading Rooms	1793	50	36
Media Lab	Vocational Rooms	676	50	14
Storage	Mechanical	71	300	1
Storage	Mechanical	111	301	1
Back of House	Mechanical	152	302	1
Tel/MEP	Mechanical	87	303	1
Pre-Function	Assembly (Unconcentrated)	868	15	58
Restroom	Business Areas	295	100	3
Total				364



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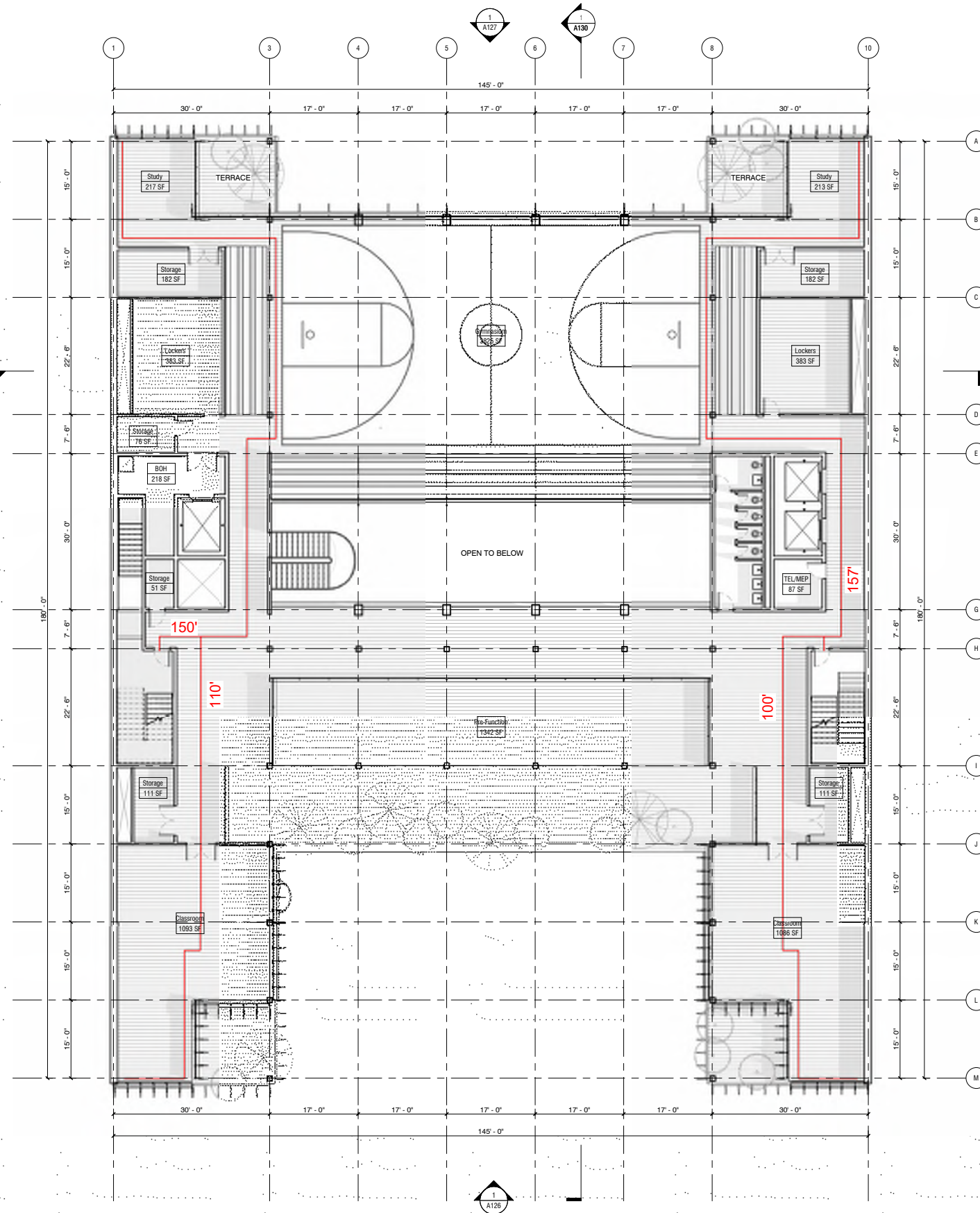
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Egress Plans -
Level 4

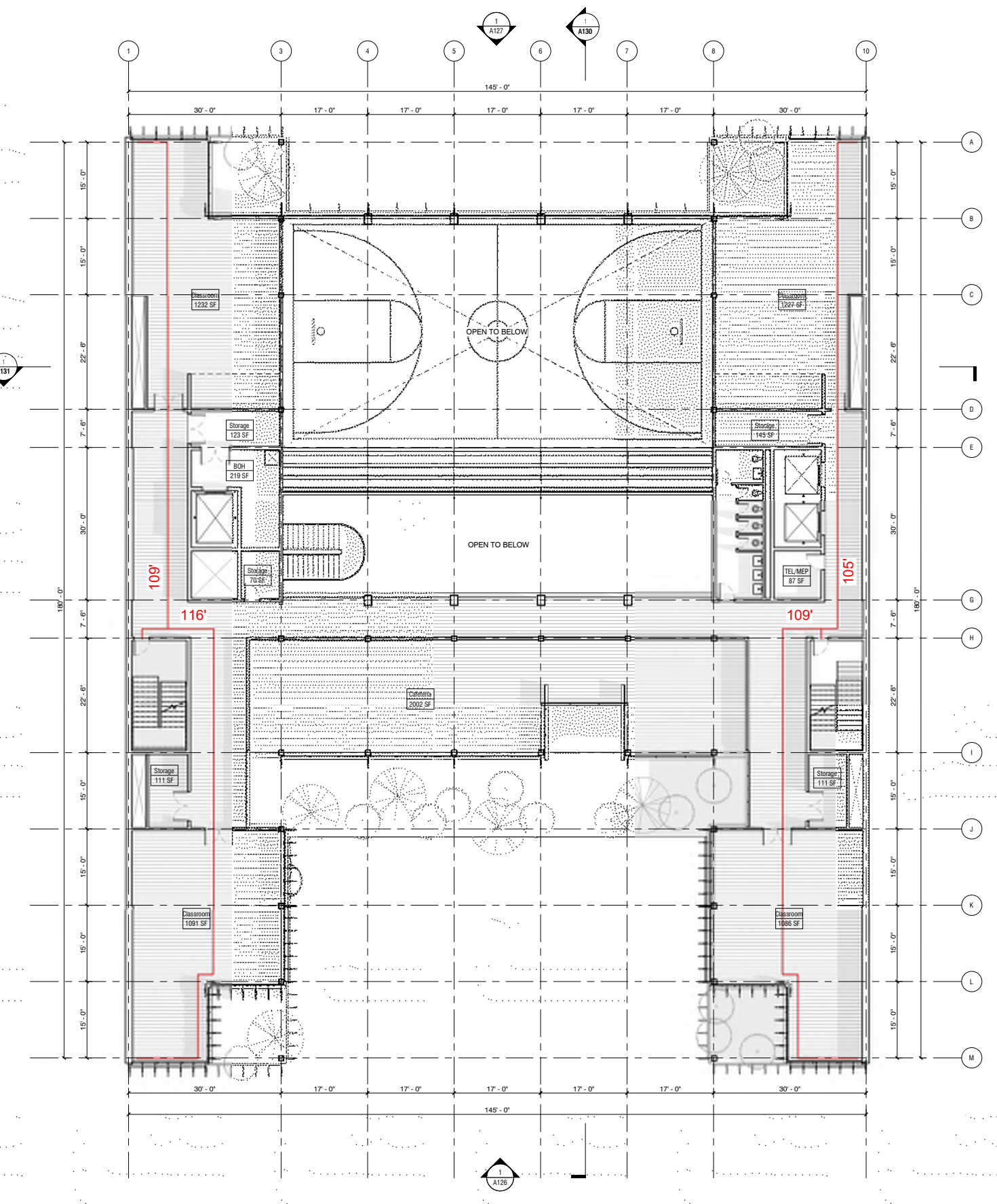
Project number	1
Date	10/18/2021
Scale	3/32" = 1'-0"

A014

Occupancy Load - Level 4				
Program / Room	Use of Space	Area (sqft)	Floor Area per Occupant	Total Occupant Load
Study	Educational	217	20	11
Storage	Accessory Storage	182	300	1
Lockers	Lockers	383	50	8
Storage	Accessory Storage	78	300	1
Back of House	Mechanical	218	300	1
Storage	Accessory Storage	51	300	1
Storage	Accessory Storage	111	300	1
Classroom	Educational	1088	20	55
Pre-Function	Standing Space	1342	5	209
Classroom	Educational	1088	20	55
Storage	Accessory Storage	151	300	1
Mechanical	Mechanical	87	300	1
Restroom	Business Areas	285	100	3
Lockers	Lockers	383	50	8
Storage	Accessory Storage	182	300	1
Study	Educational	213	20	11
Gymnasium	Gymnasium	213	50	11
Total				494



Occupancy Load - Level 5			
Program / Room	Use of Space	Area (sqft)	Total Occupant Load
Classroom	Educational	1232	62
Classroom	Educational	1227	62
Storage	Accessory Storage	145	1
Mechanical	Mechanical	87	1
Storage	Accessory Storage	123	1
Back of House	Mechanical	219	1
Storage	Accessory Storage	70	1
Storage	Accessory Storage	111	1
Classroom	Educational	1091	55
Cafeteria	Assembly (Fixed Seats)	2062	206
Classroom	Educational	1096	55
Restroom	Business Areas	205	1
Total			529



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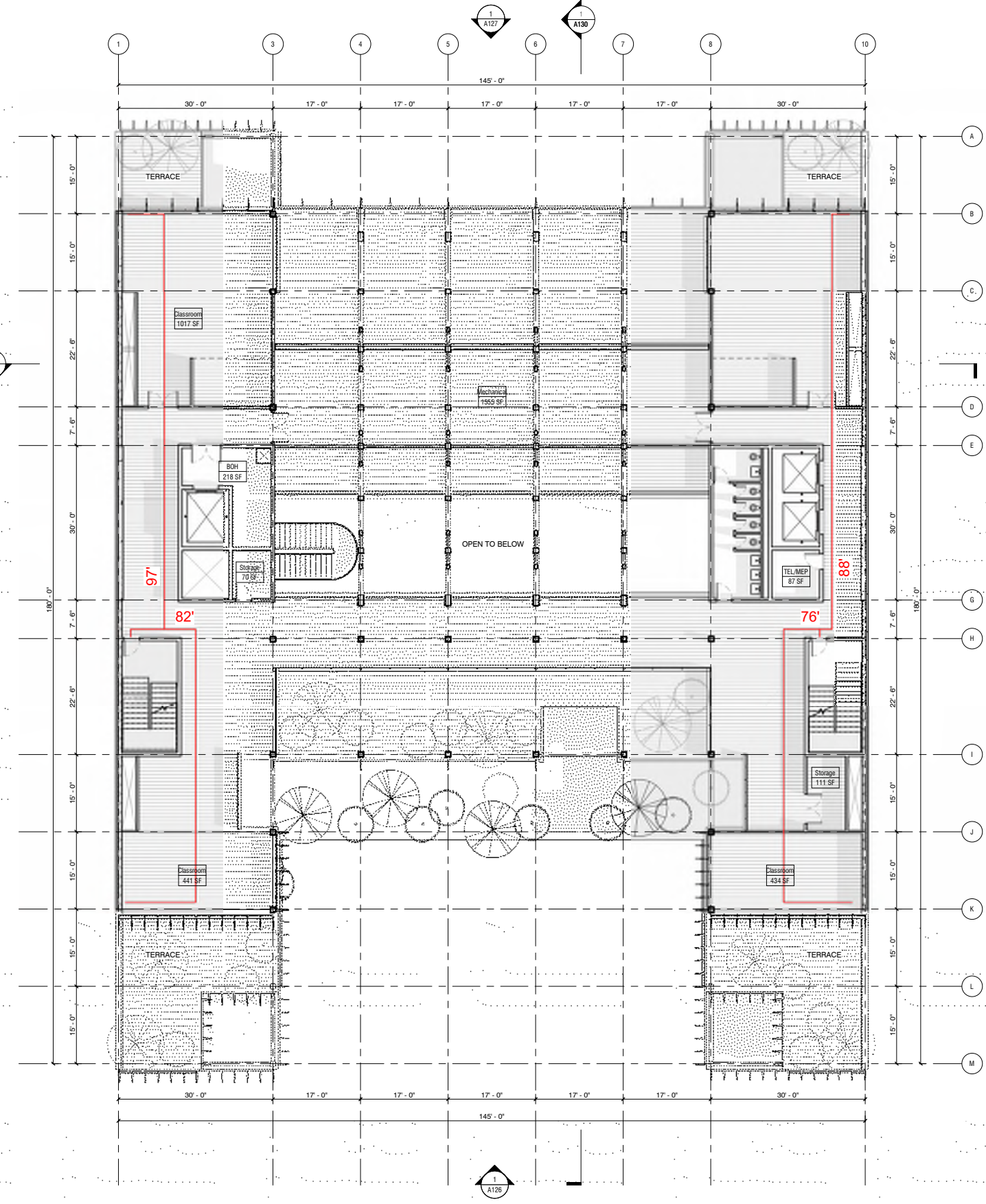
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Egress Plans - Level 5

Project number	1
Date	10/18/2021
Scale	3/32" = 1'-0"

A015

Occupancy Load - Level 6			
Program / Room	Use of Space	Area (sqft)	Floor Area per Occupant / Total Occupant Load
Classroom	Educational	1017	20 / 51
Back of House	Mechanical	218	300 / 1
Storage	Accessory Storage	70	300 / 1
Classroom	Educational	441	20 / 22
Mechanical	Mechanical	1355	300 / 5
Classroom	Educational	1017	20 / 51
Restroom	Business Areas	285	100 / 3
Mechanical	Mechanical	87	300 / 1
Storage	Accessory Storage	111	300 / 1
Classroom	Educational	434	20 / 22
Total			159



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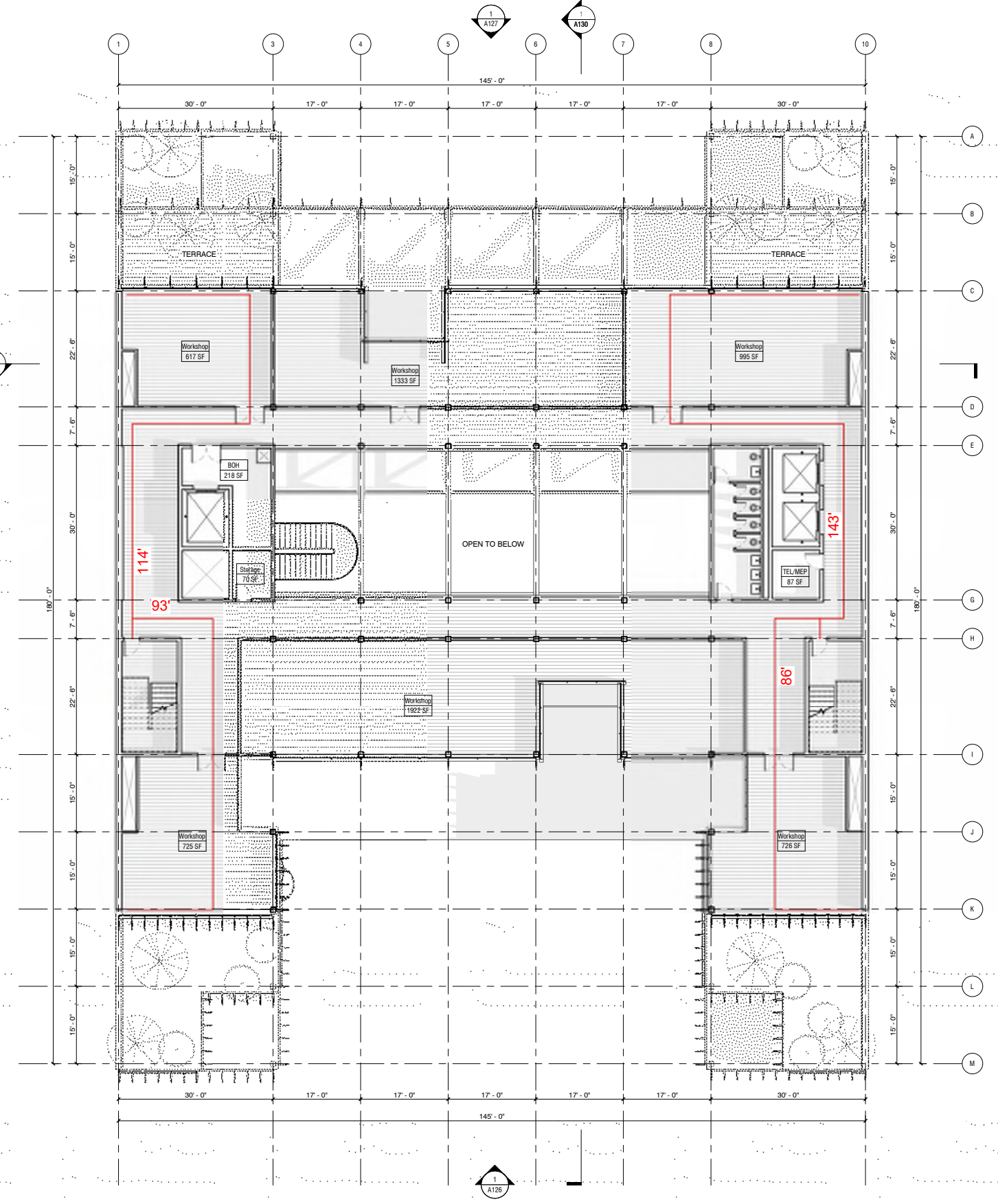
Egress Plans - Level 6

Project number	1
Date	10/18/2021
Scale	3/32" = 1'-0"

A016

10/19/2021 1:50:11 PM

Occupancy Load - Level 7			
Program / Room	Use of Space	Area (sqft)	Total Occupant Load
Workshop	Vocational	617	13
Back of House	Mechanical	215	1
Workshop	Vocational	725	15
Workshop	Vocational	1922	39
Storage	Accessory Storage	70	1
Workshop	Vocational	1333	27
Workshop	Vocational	965	20
Mechanical	Mechanical	87	1
Restroom	Business Areas	285	3
Workshop	Vocational	726	15
Total			135



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Egress Plans - Level 7

Project number	1
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Scale	3/32" = 1'-0"

A017

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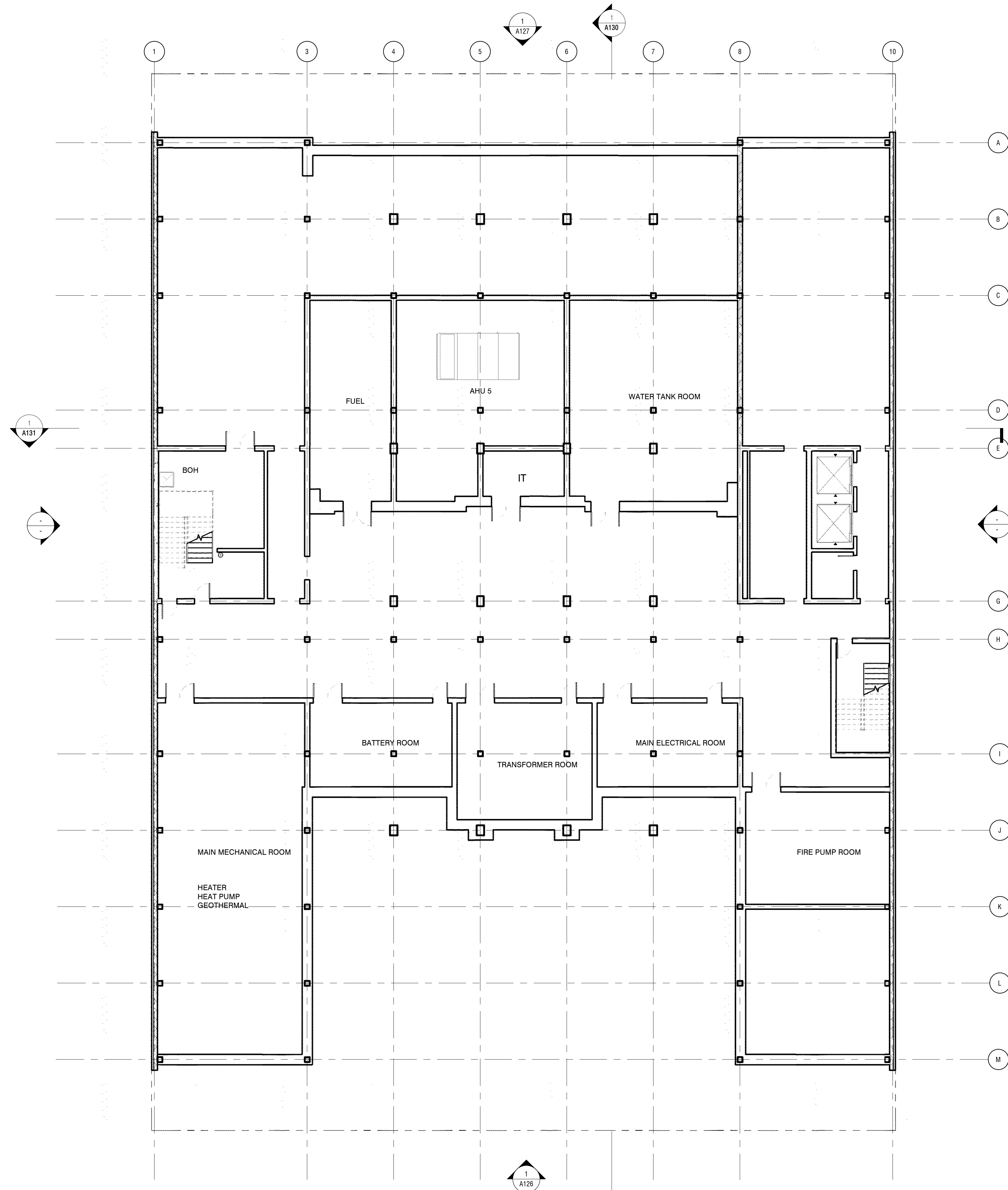
Floor Plans – Basement

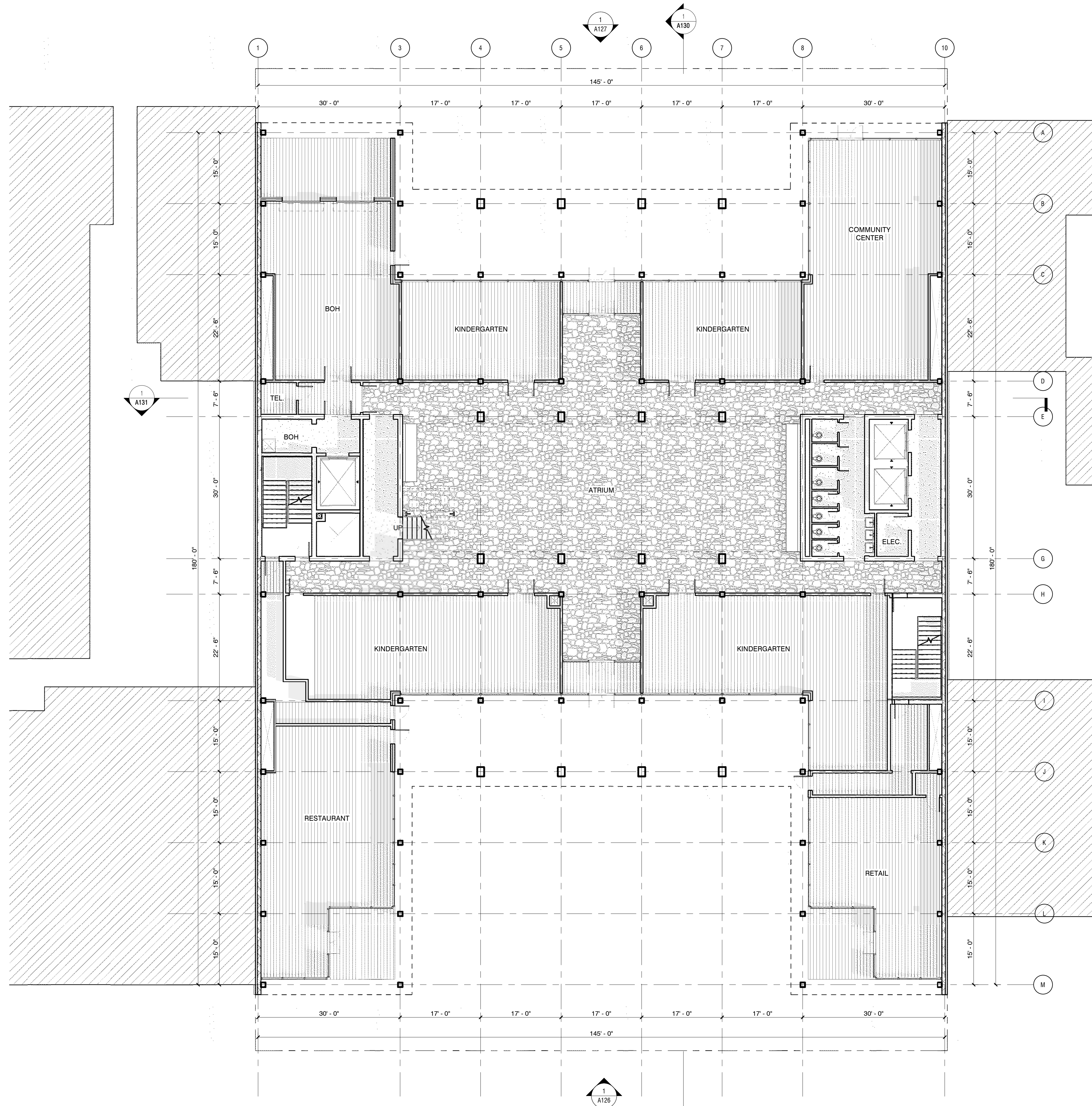
Project number 21001

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Scale 3/32" = 1'-0"

A100





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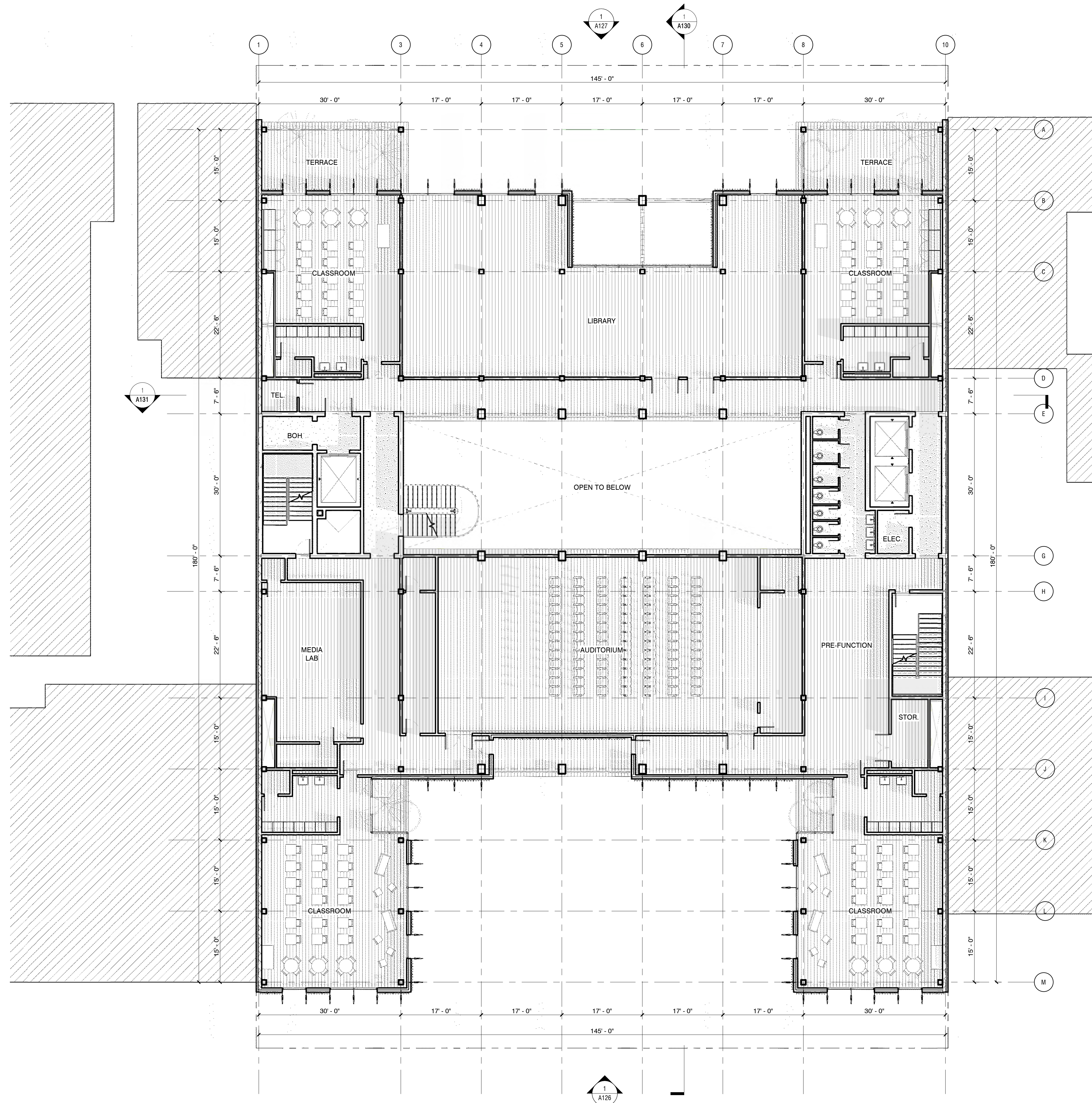
Floor Plans – Ground Floor

Project number 21001

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Scale 3/32" = 1'-0"

A101



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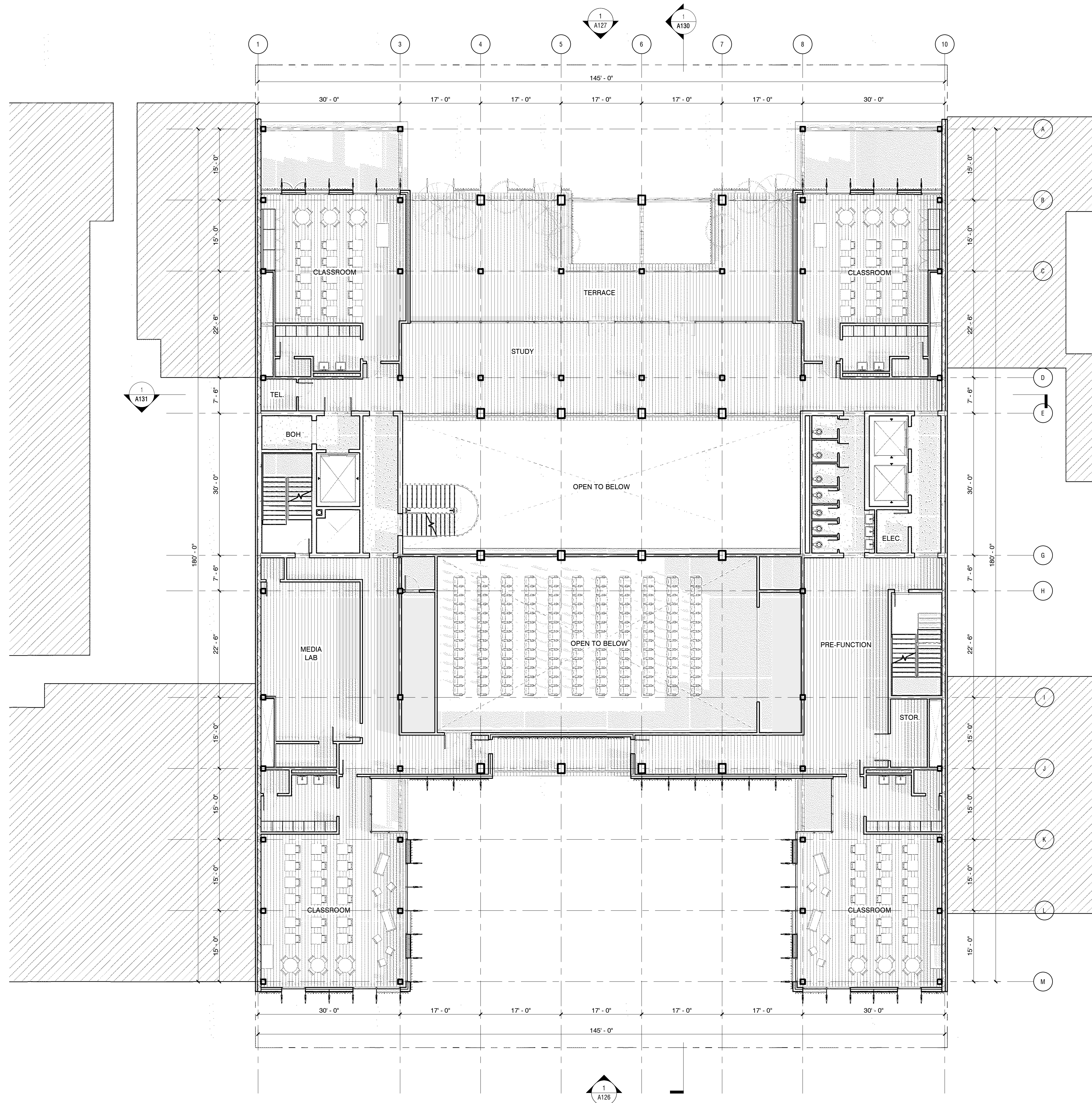
Floor Plans - Level 2

Project number 21001

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A102



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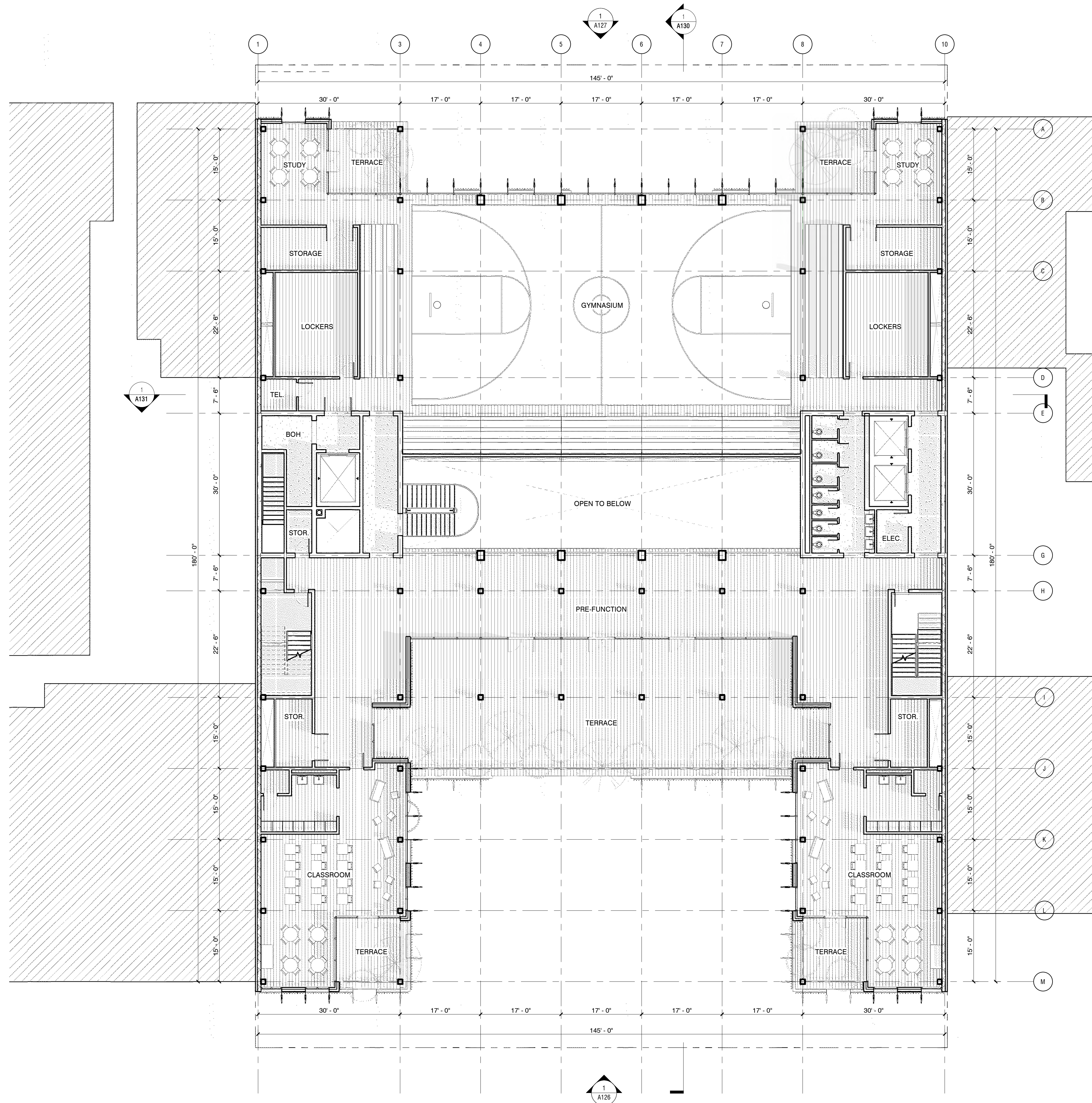
Floor Plans - Level 3

Project number 21001

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A103



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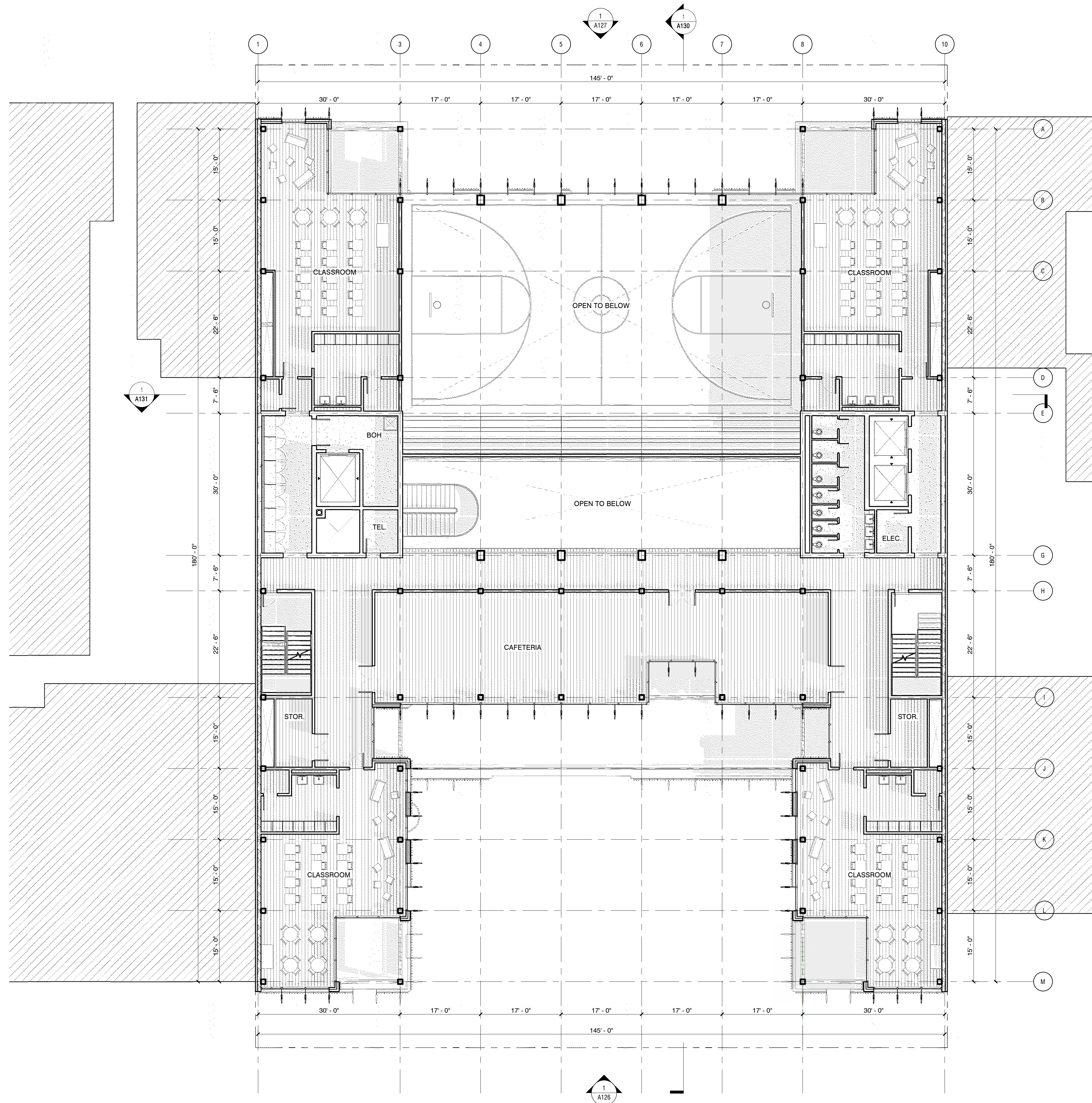
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Floor Plans - Level 4

Project number	21001
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Scale	3/32" = 1'-0"

A104



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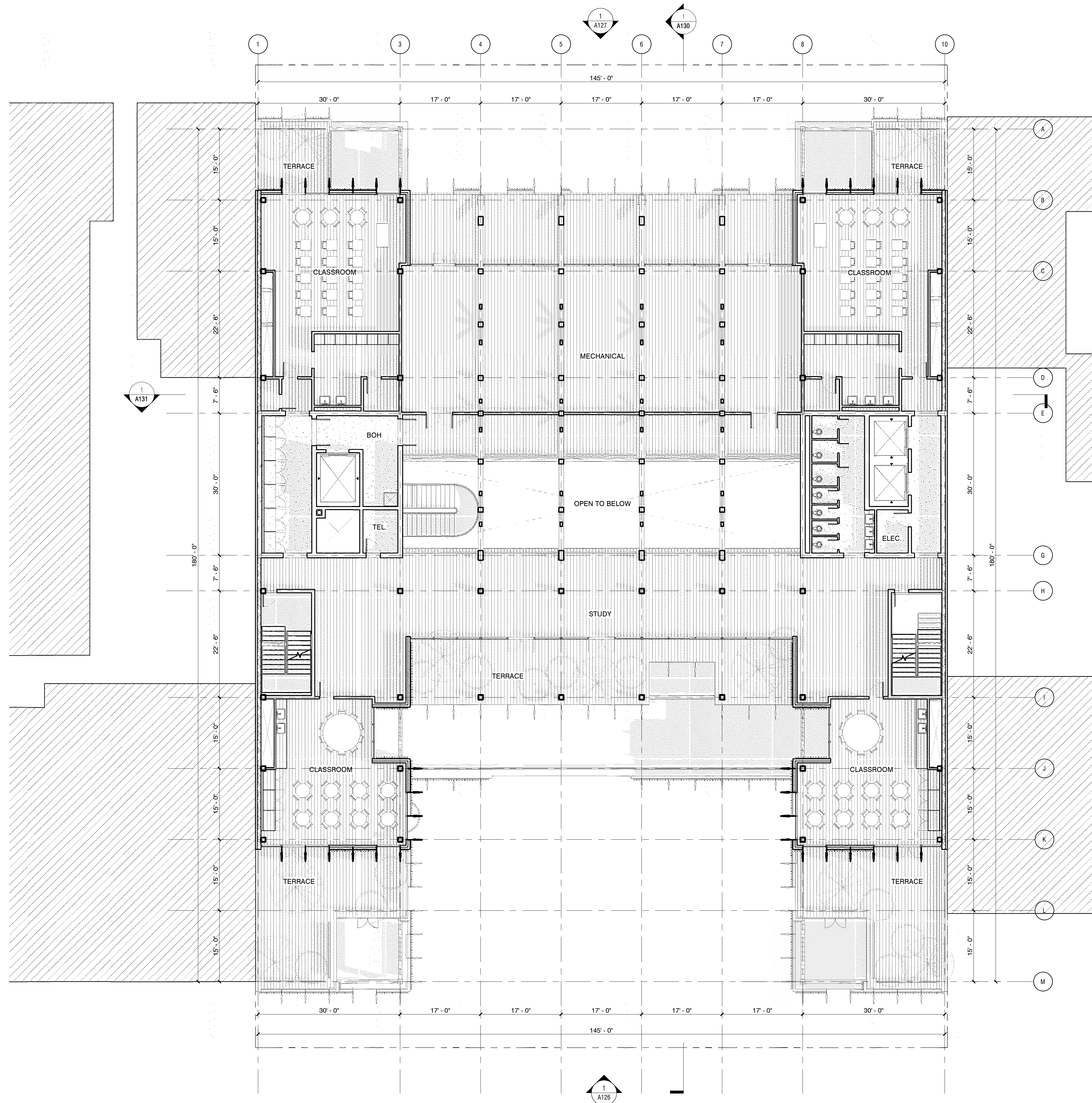
Floor Plans – Level 5

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A105



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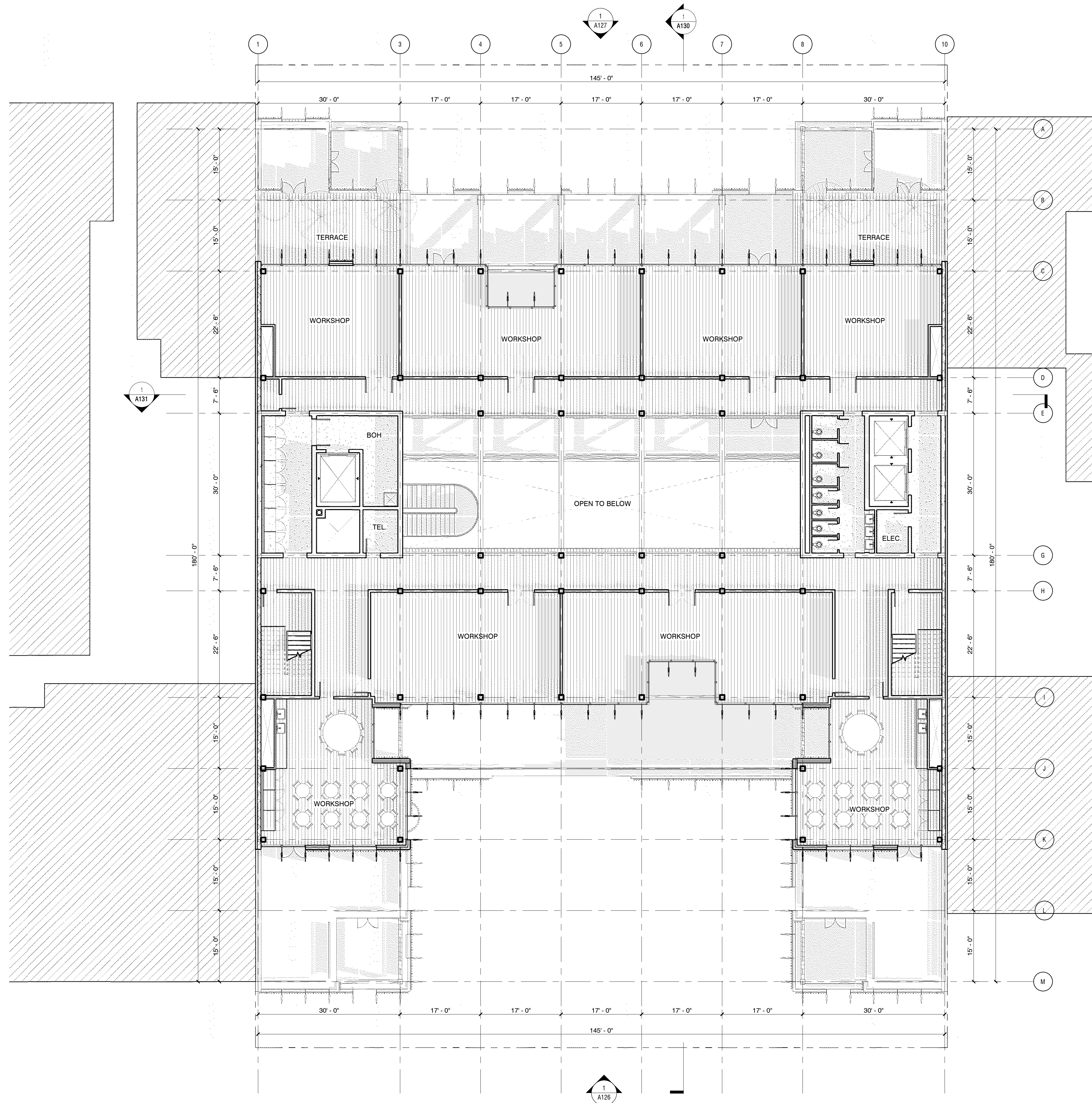
Floor Plans - Level 6

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A106



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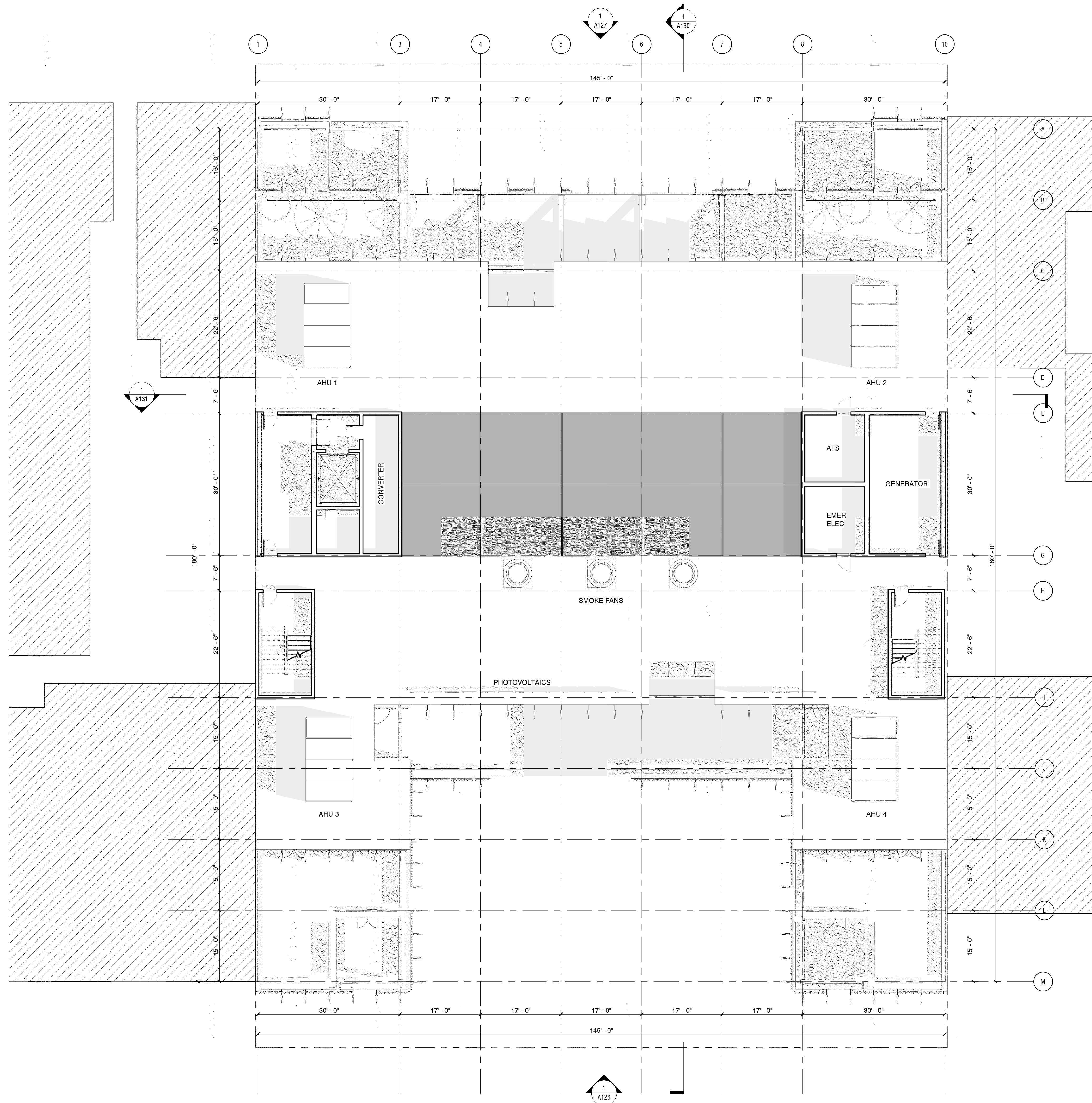
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Floor Plans – Level 7

Project number	21001
Date	Dec. 17, 2021
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A107



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Floor Plans – Roof Plan

Project number	21001
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Scale	1/8" = 1'-0"

A108

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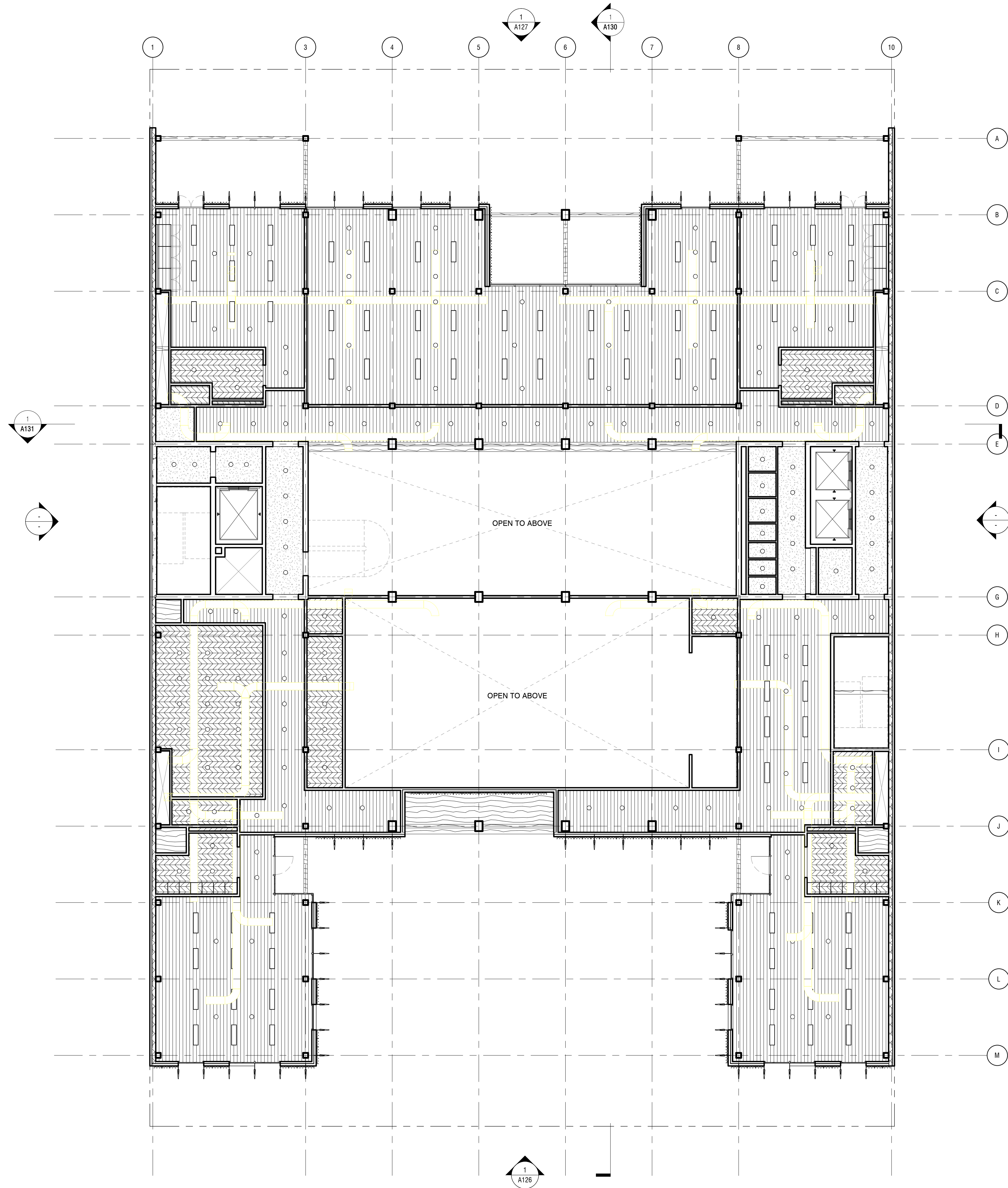
Reflected Ceiling Plan

Project number 21001

Date Dec. 17, 2021

Scale 1/8" = 1'-0"

A135



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Building
Elevation -
South

Project number 21001

Date Dec. 17, 2021

Scale 1/8" = 1'-0"

A126

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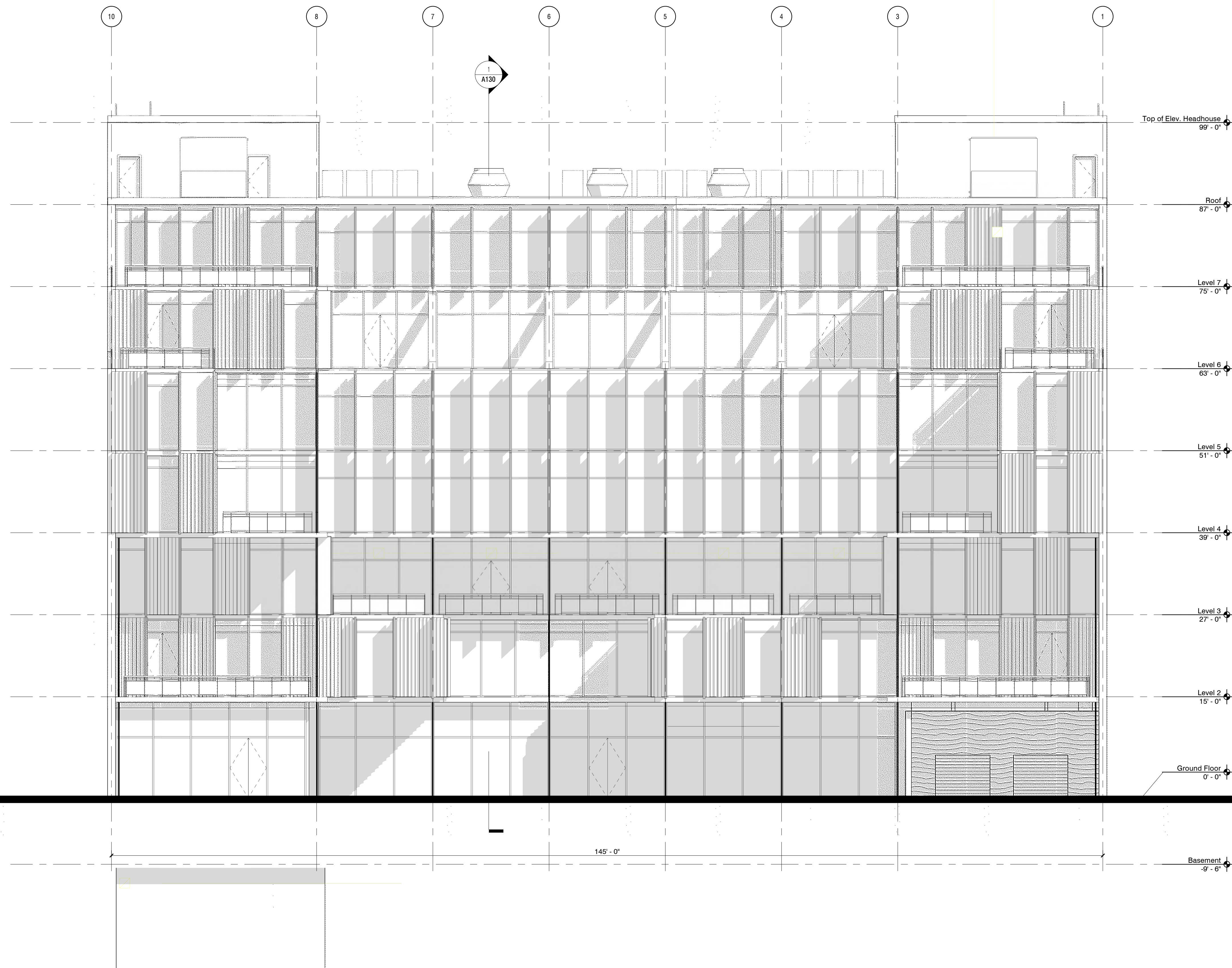
Building Elevation - North

Project number 21001

Date Dec. 17, 2021

Scale 1/8" = 1'-0"

A127



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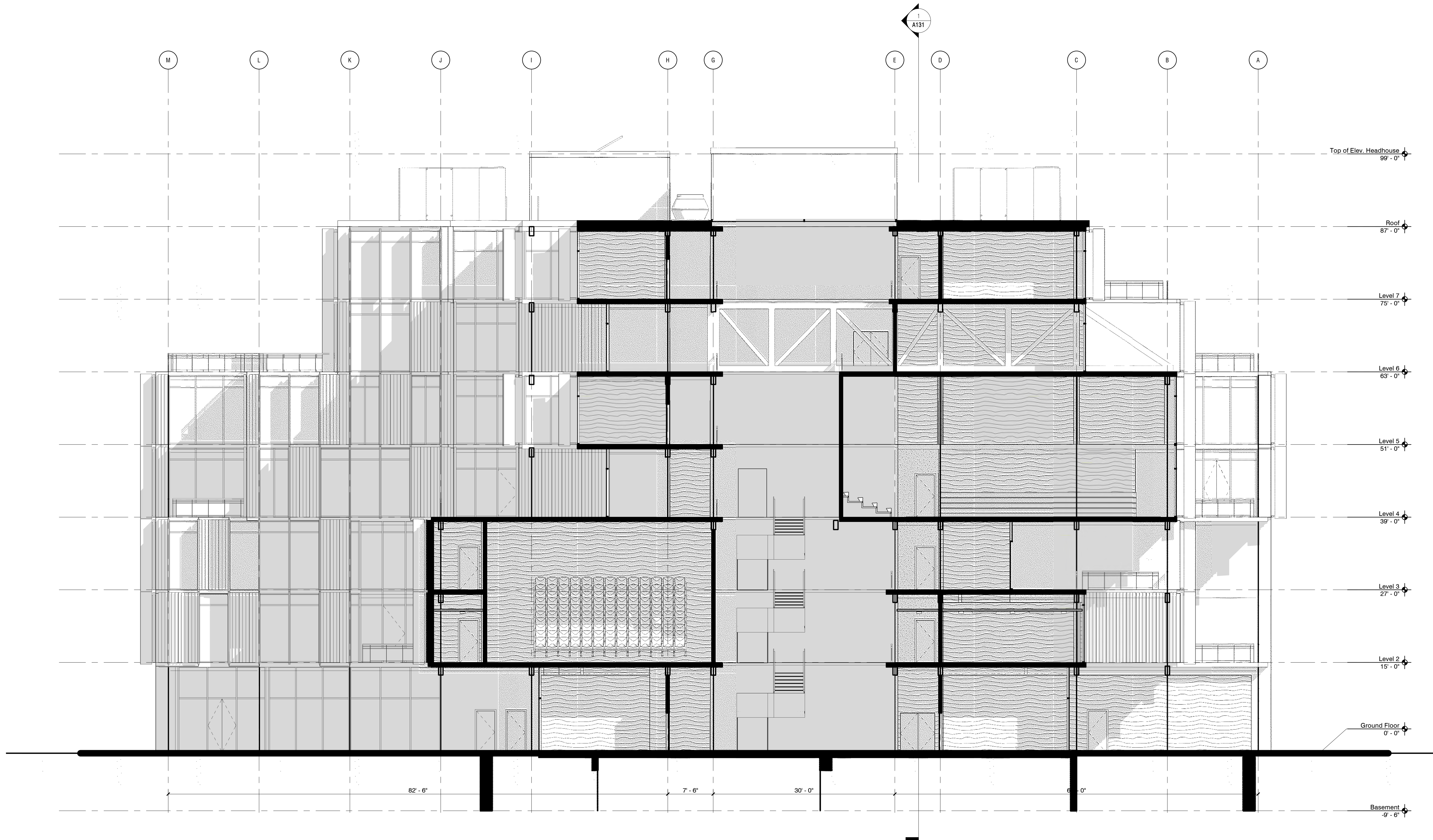
Building Sections N-S

Project number 21001

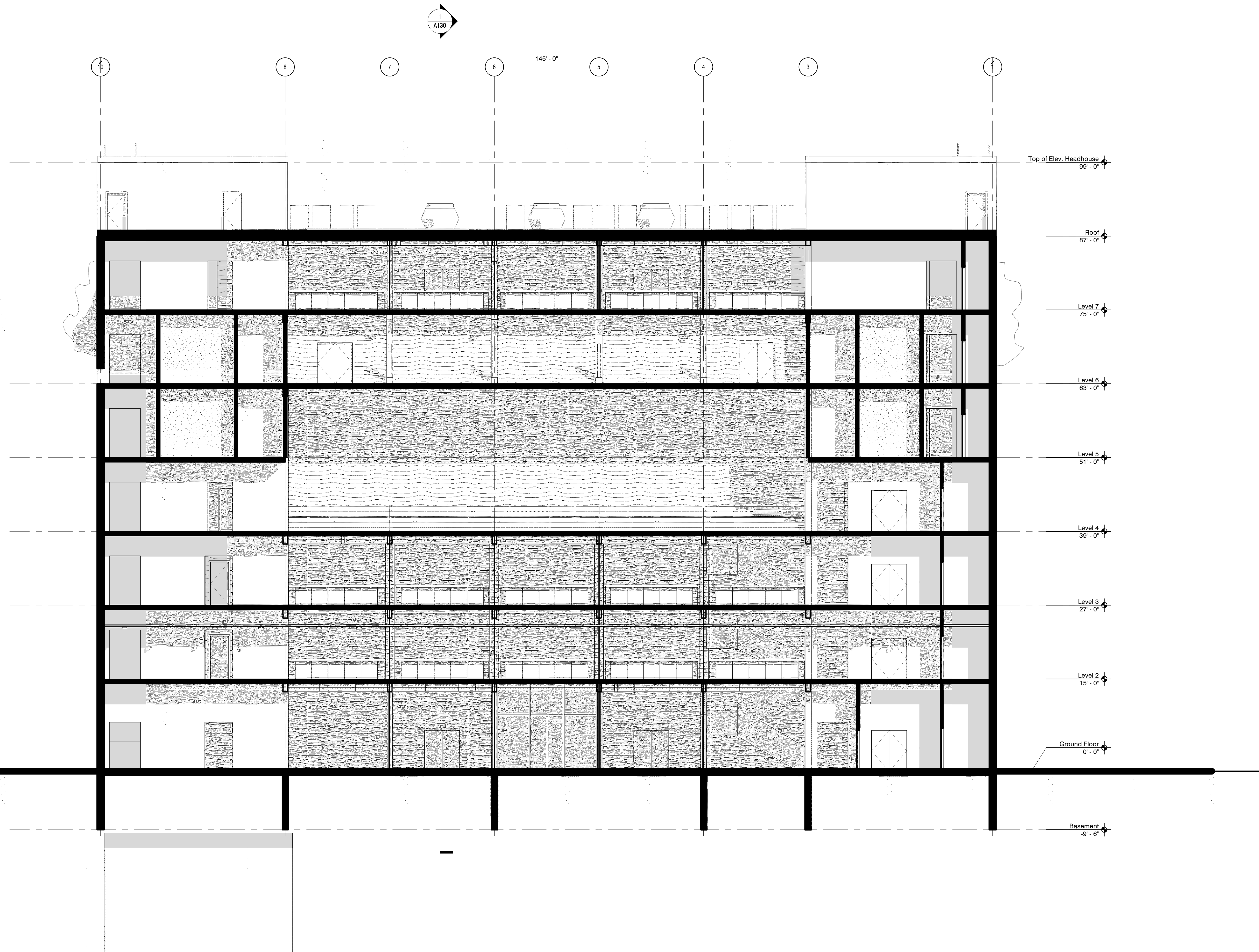
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Scale 1/8" = 1'-0"

A130



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Building Sections E-W

Project number 21001

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Scale 1/8" = 1'-0"

A131

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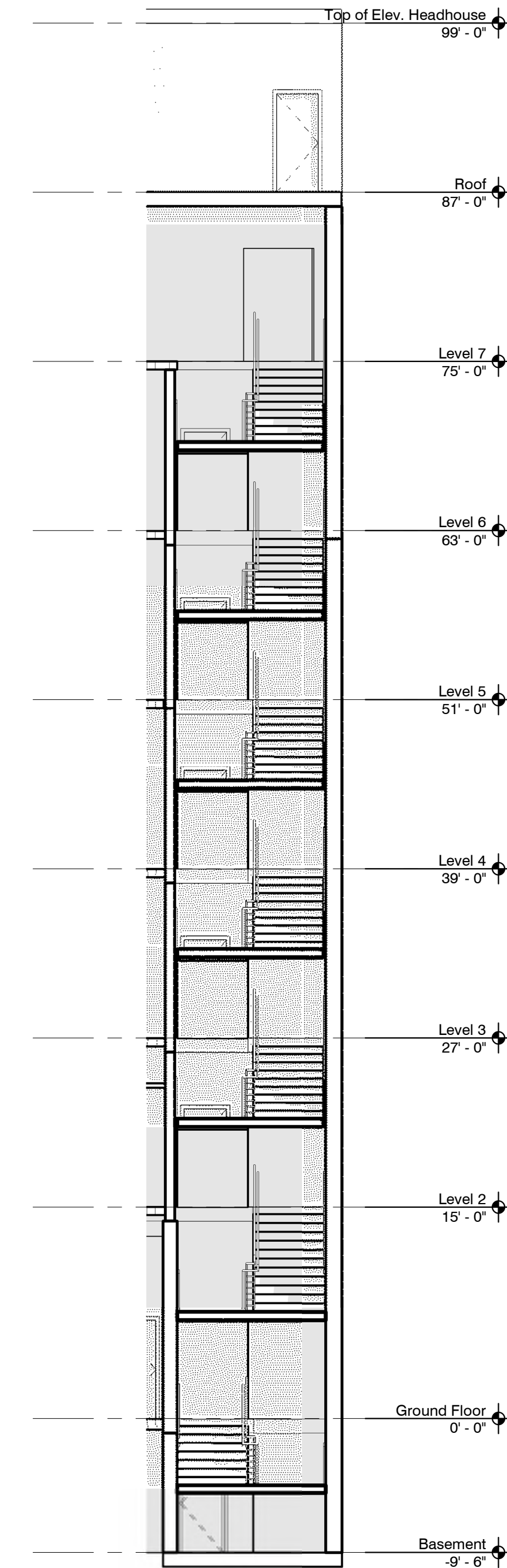
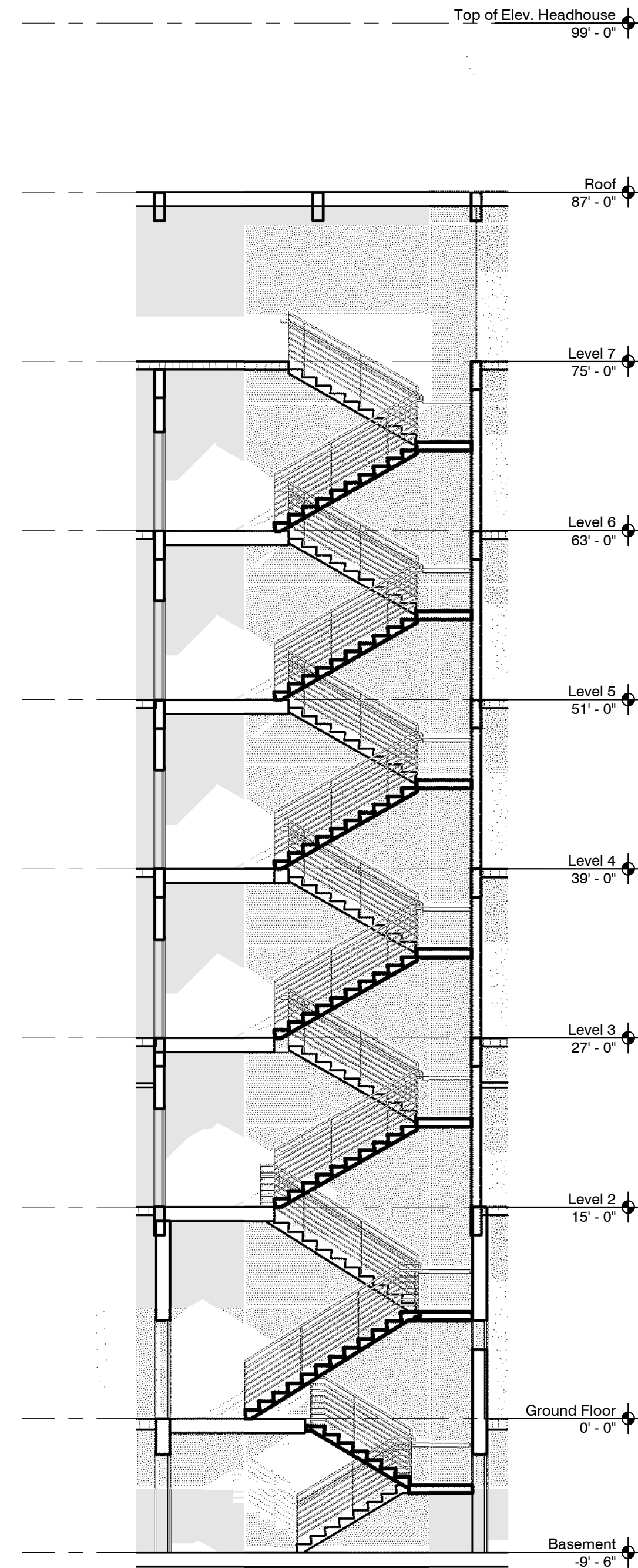
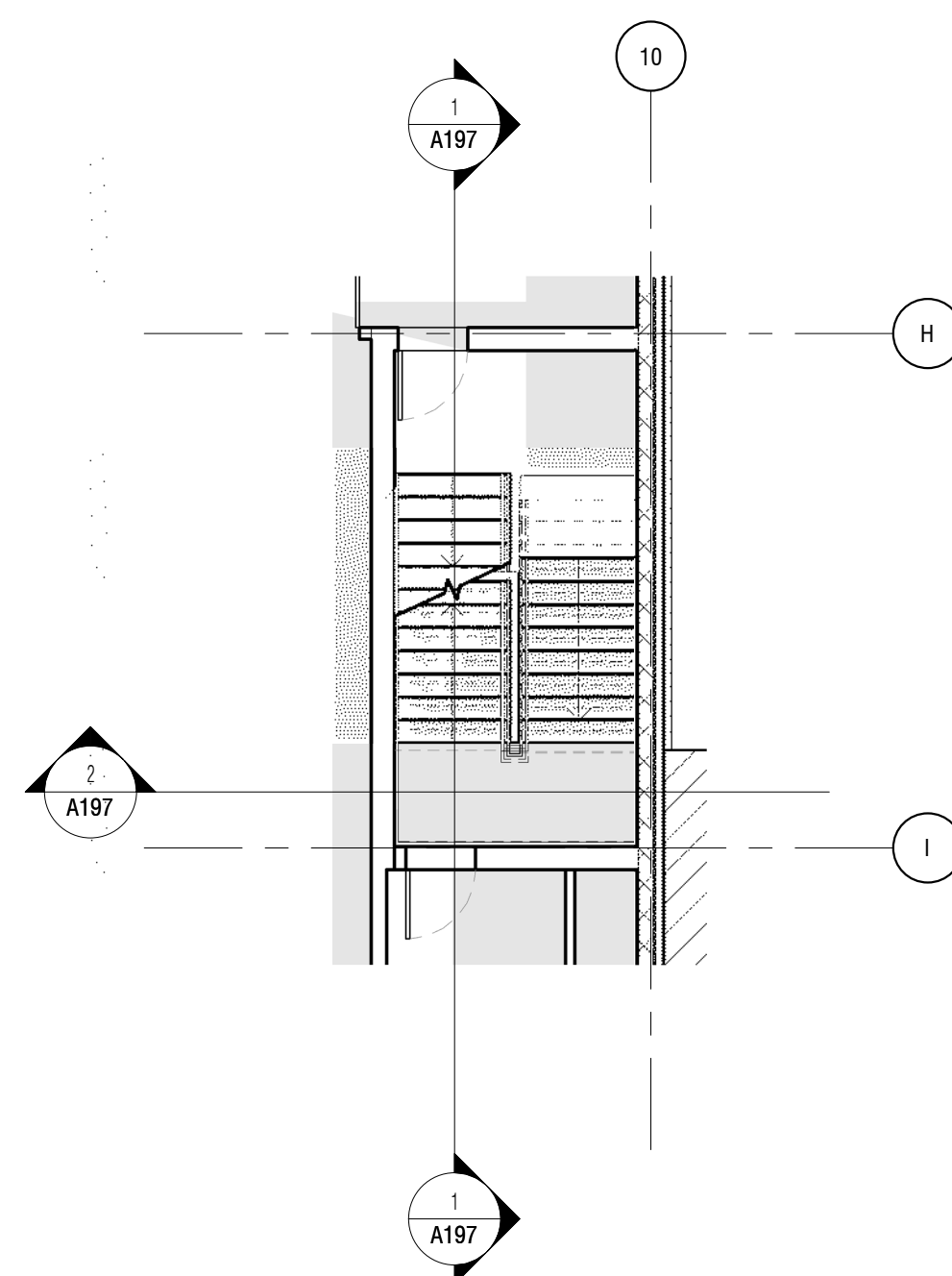
Vertical
Circulation –
East

Project number 21001

Date Dec. 17, 2021

Scale 1/8" = 1'-0"

A320



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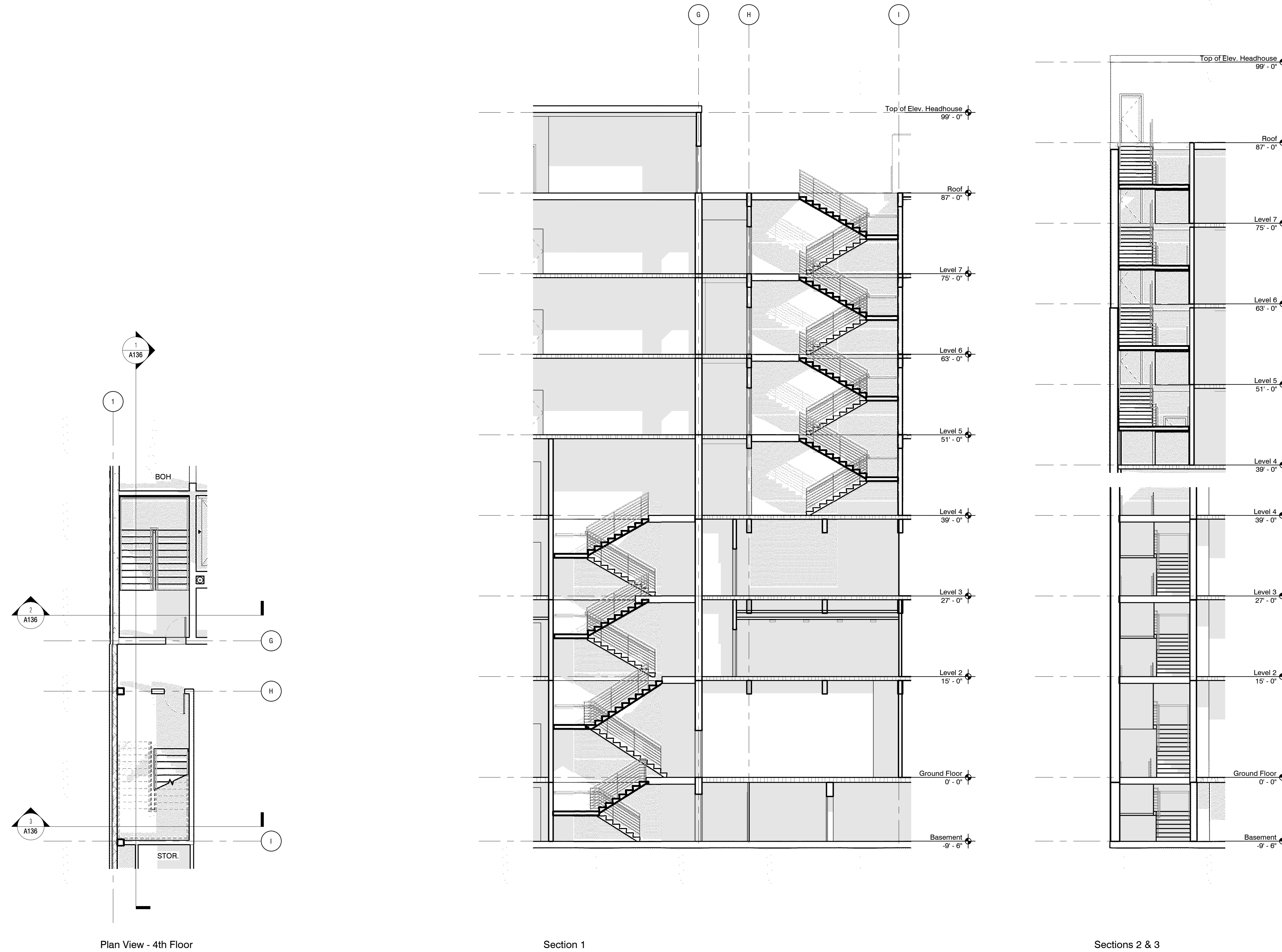
Vertical
Circulation -
West

Project number 21001

Date Dec. 17, 2021

Scale 1/8" = 1'-0"

A321



Plan View - 4th Floor

Section 1

Sections 2 & 3

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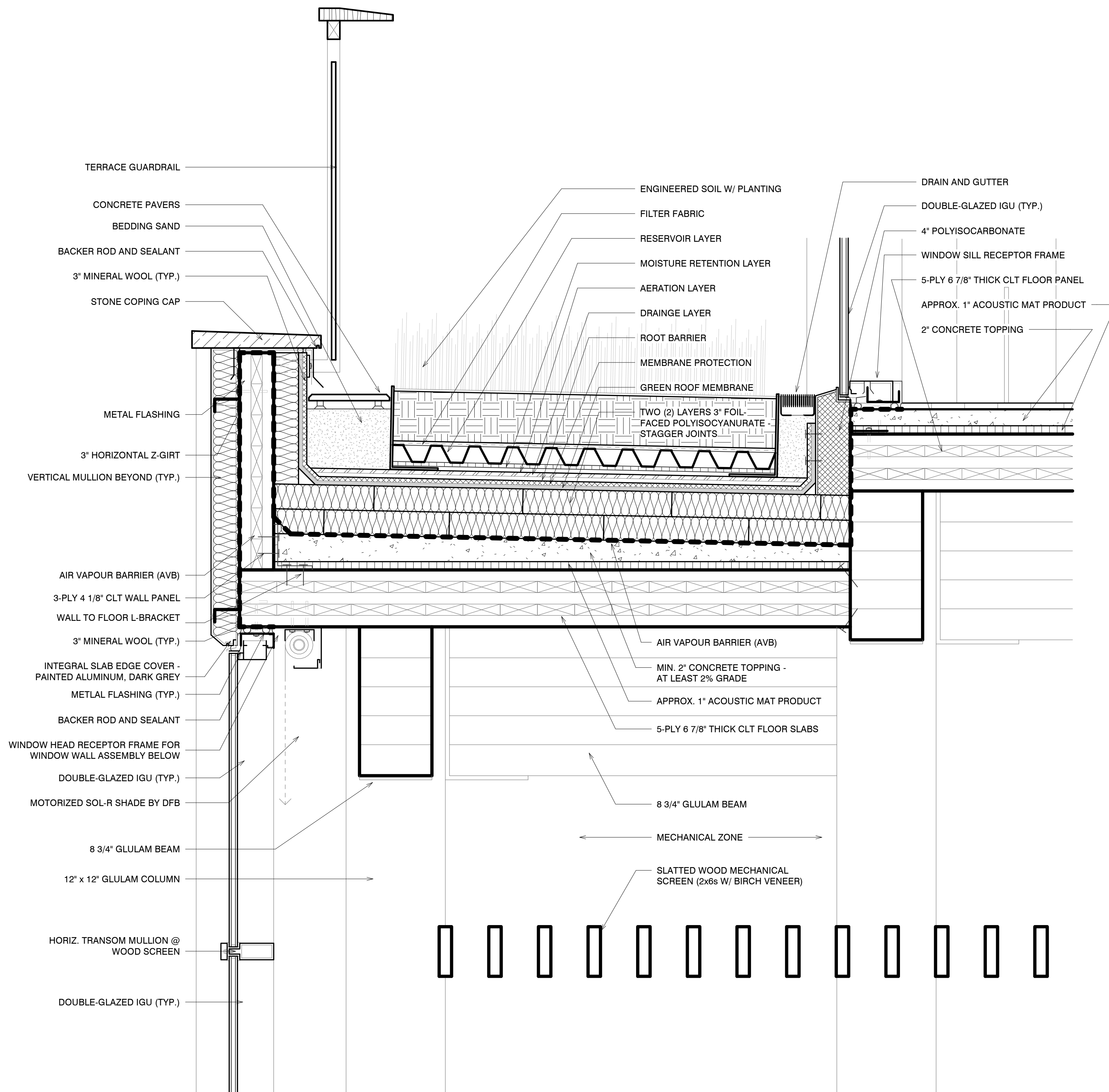
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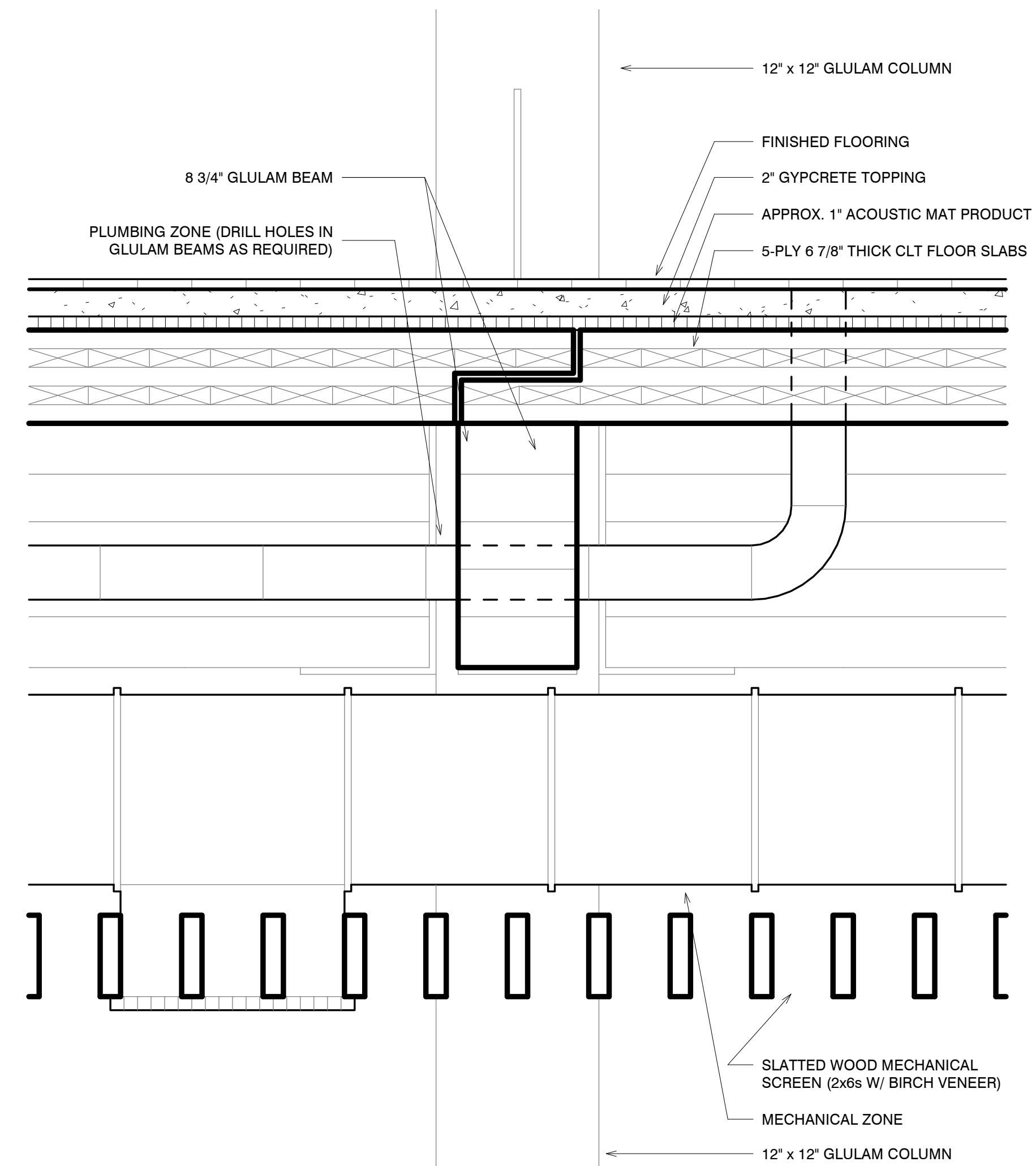
Floor, Ceiling, and Roof Types

Project number	21001
Date	Dec. 17, 2021
Scale	1/2" = 1'-0"

A140



TYPICAL ROOF TERRACE DETAIL
SCALE: 1 1/2" = 1'-0"



TYPICAL FLOOR TO FLOOR DETAIL
SCALE: 1 1/2" = 1'-0"

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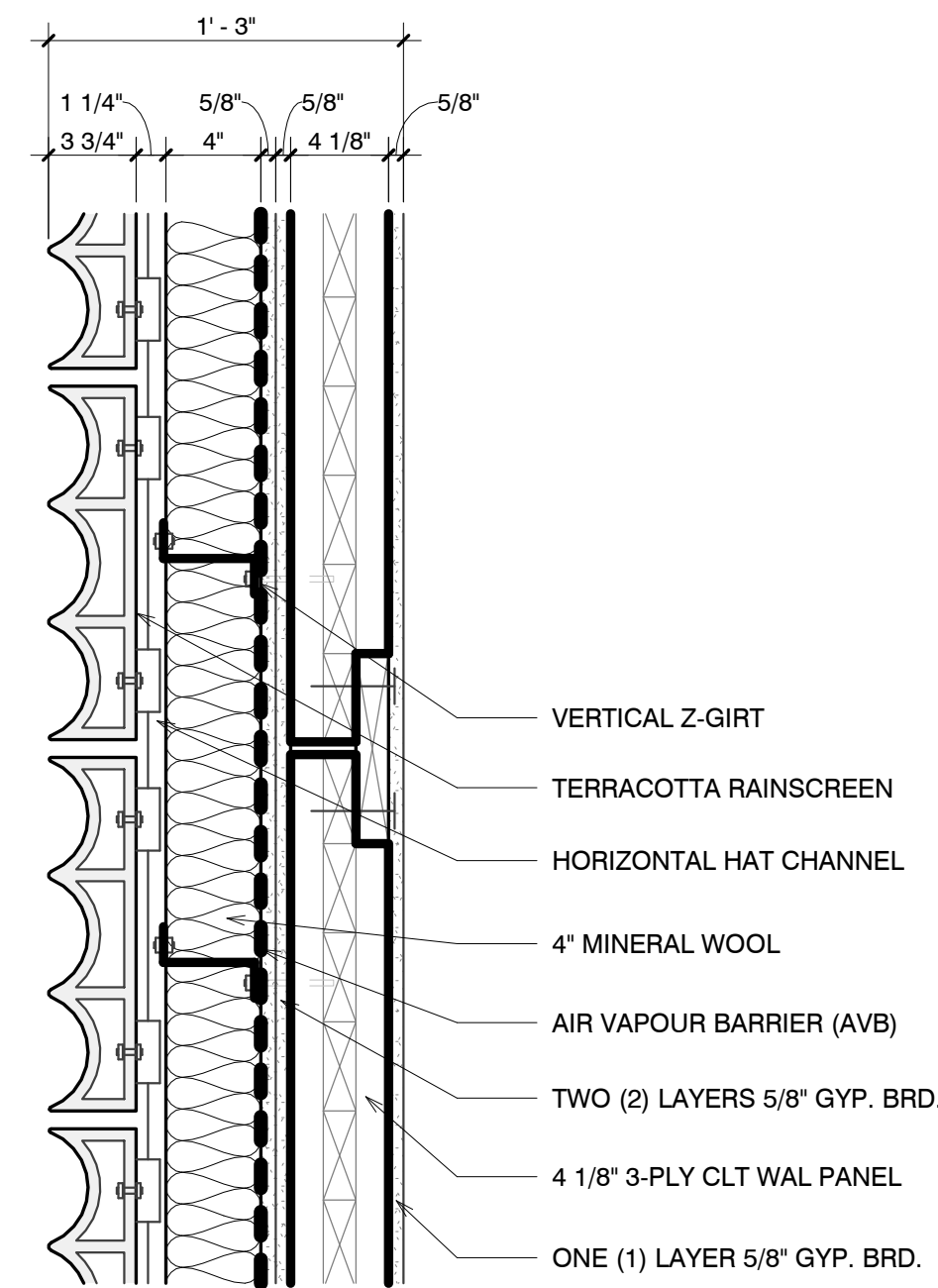
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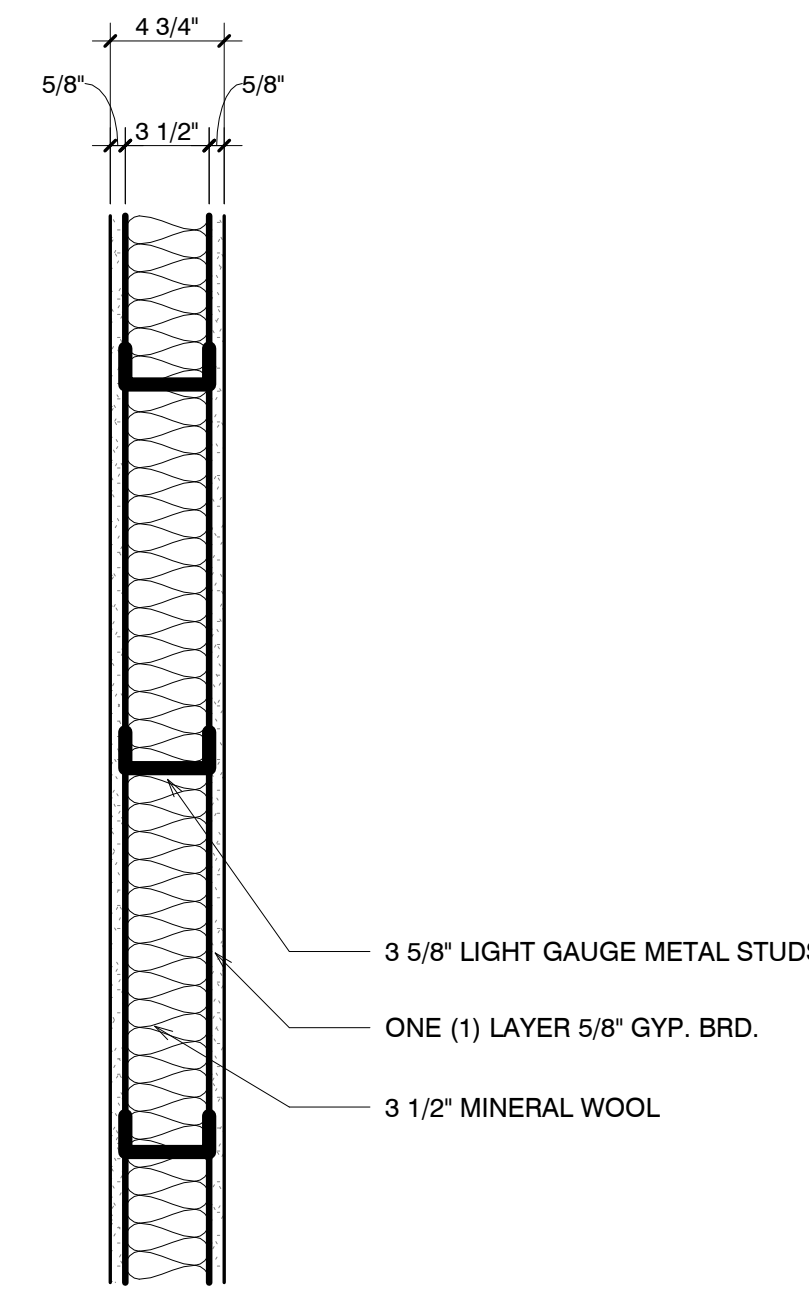
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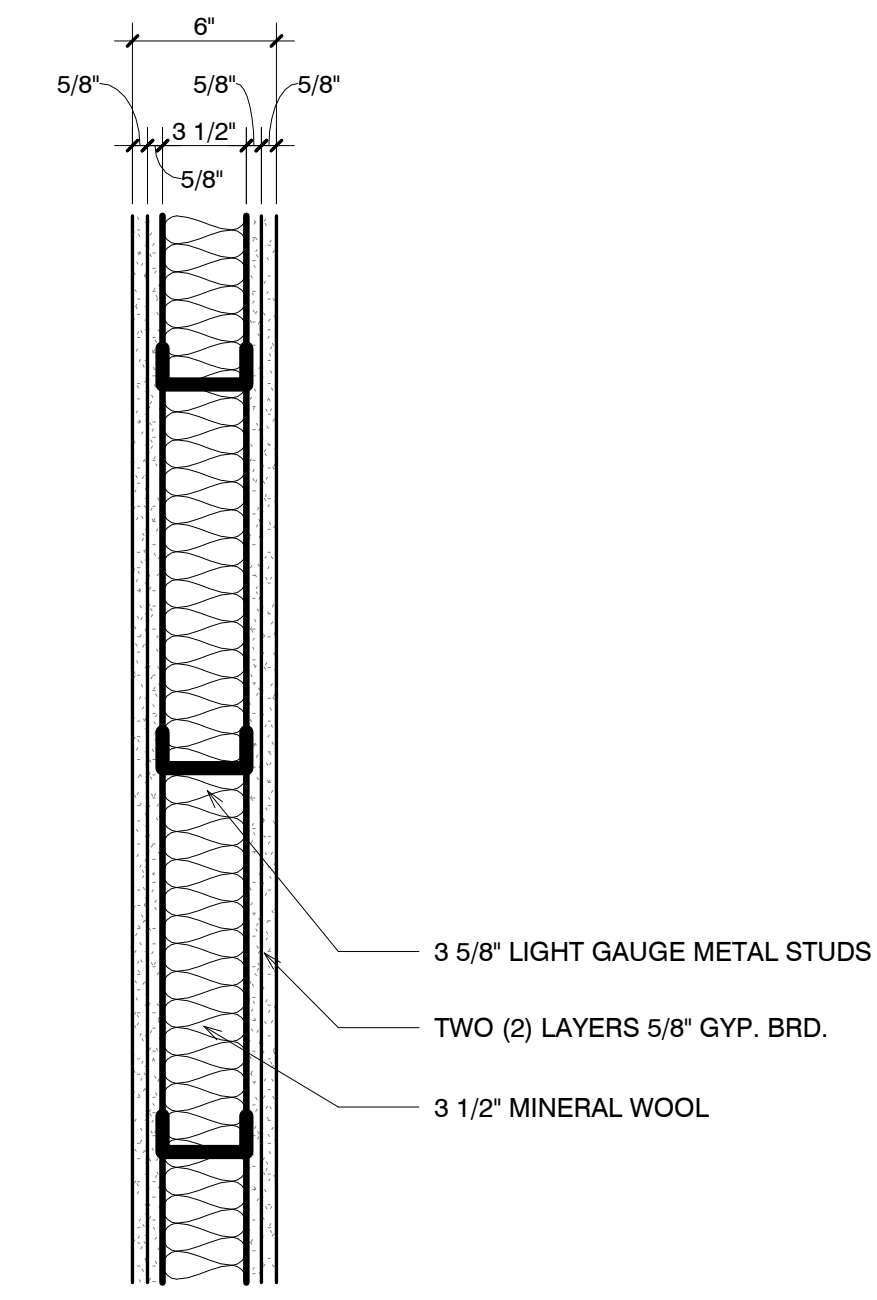
Designers
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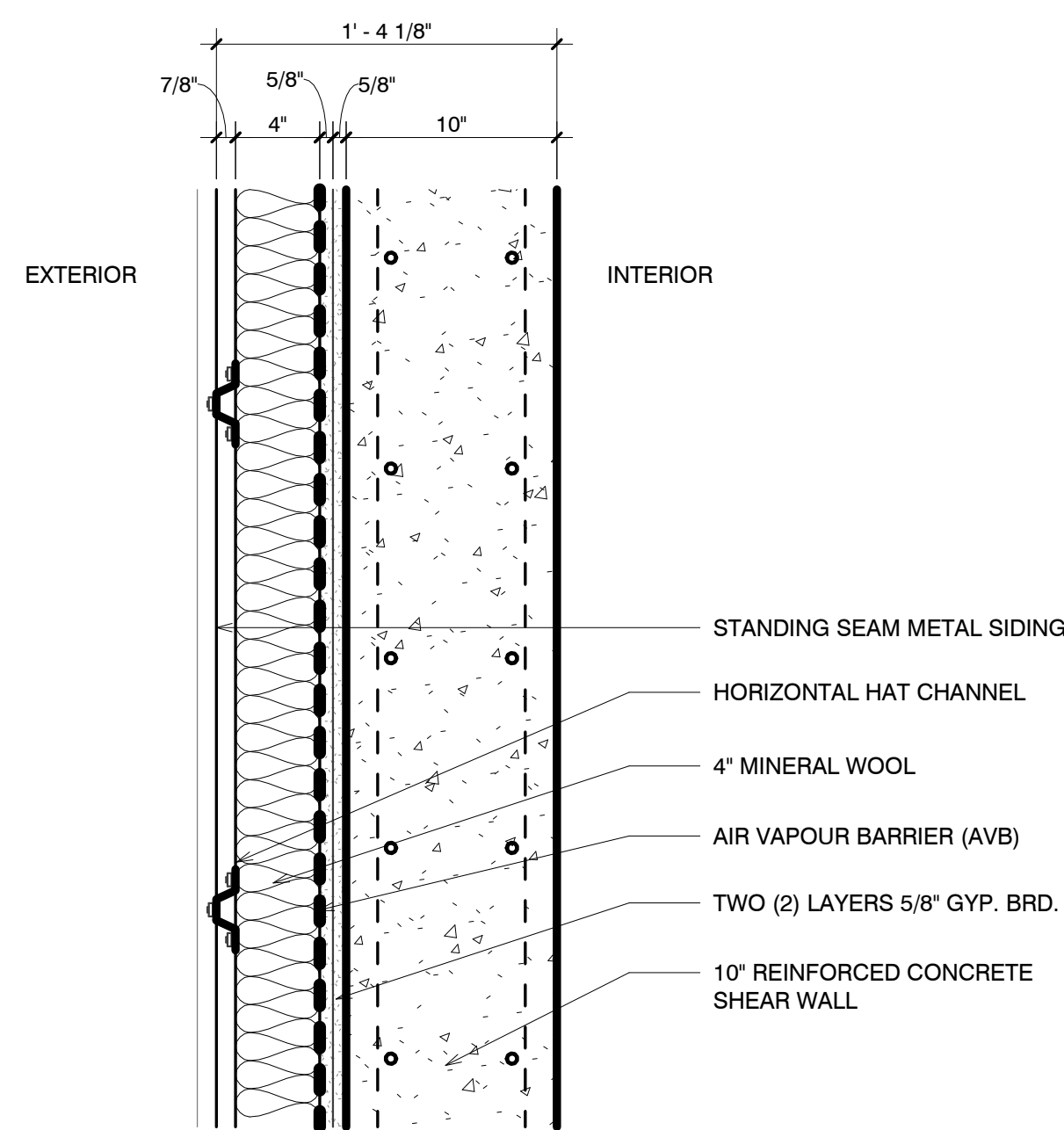
DETAIL - EXT. WALL - 2 HOUR (C1) 6
SCALE: 1 1/2" = 1'-0"



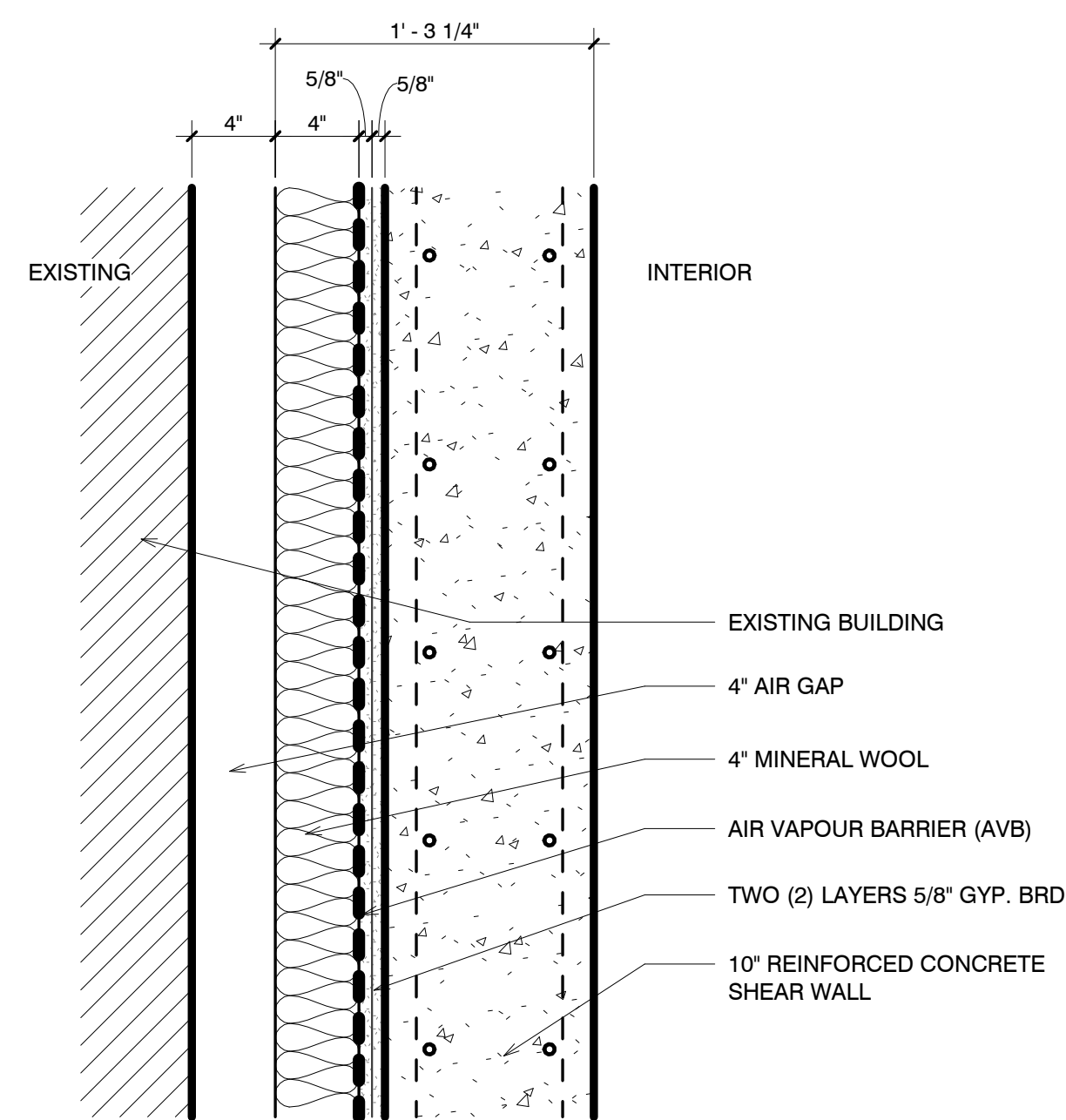
DETAIL - RATED WALL - 1 HOUR (A2) 4
SCALE: 1 1/2" = 1'-0"



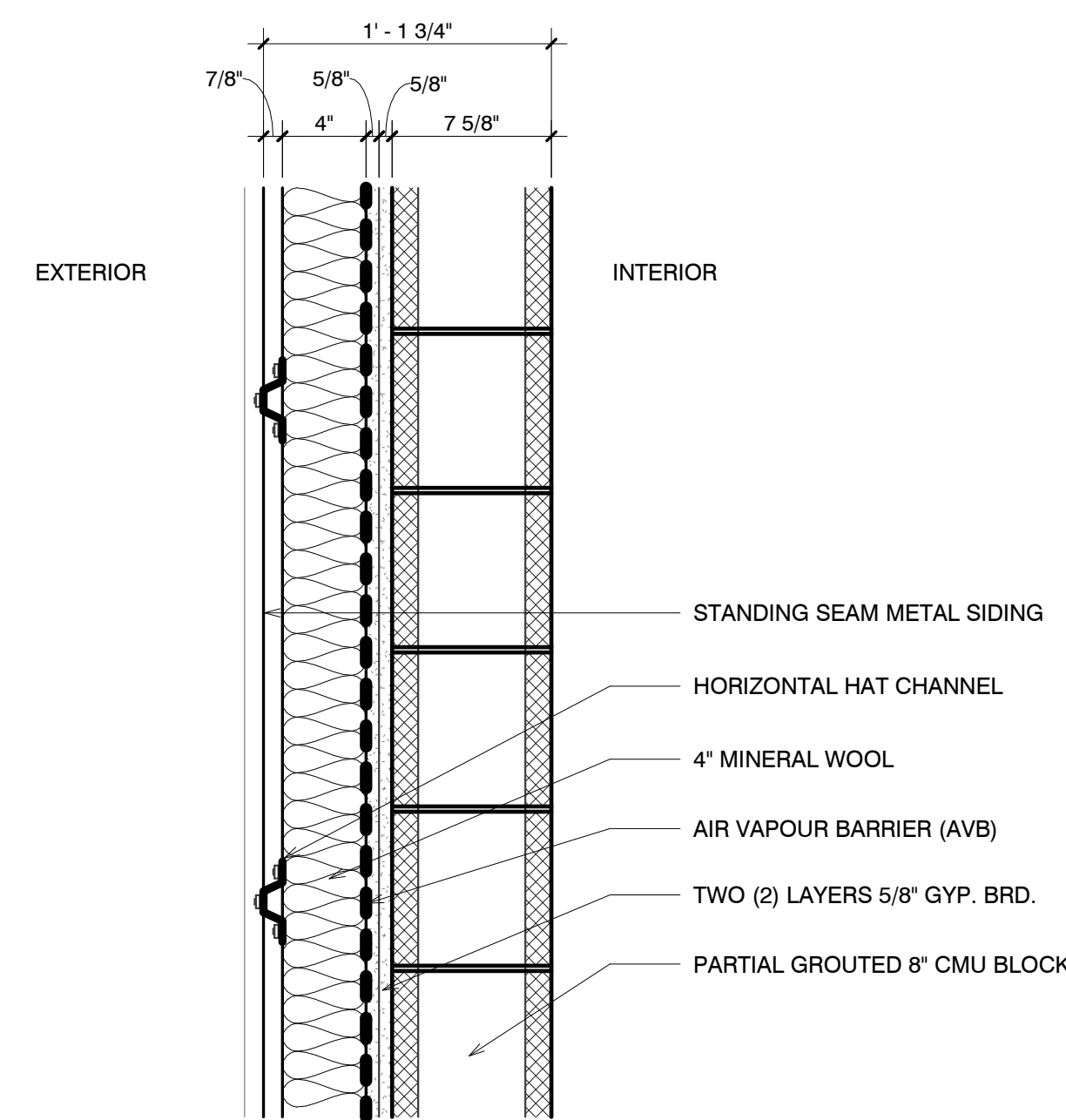
DETAIL - RATED WALL - 2 HOUR (A1)
SCALE: 1 1/2" = 1'-0"



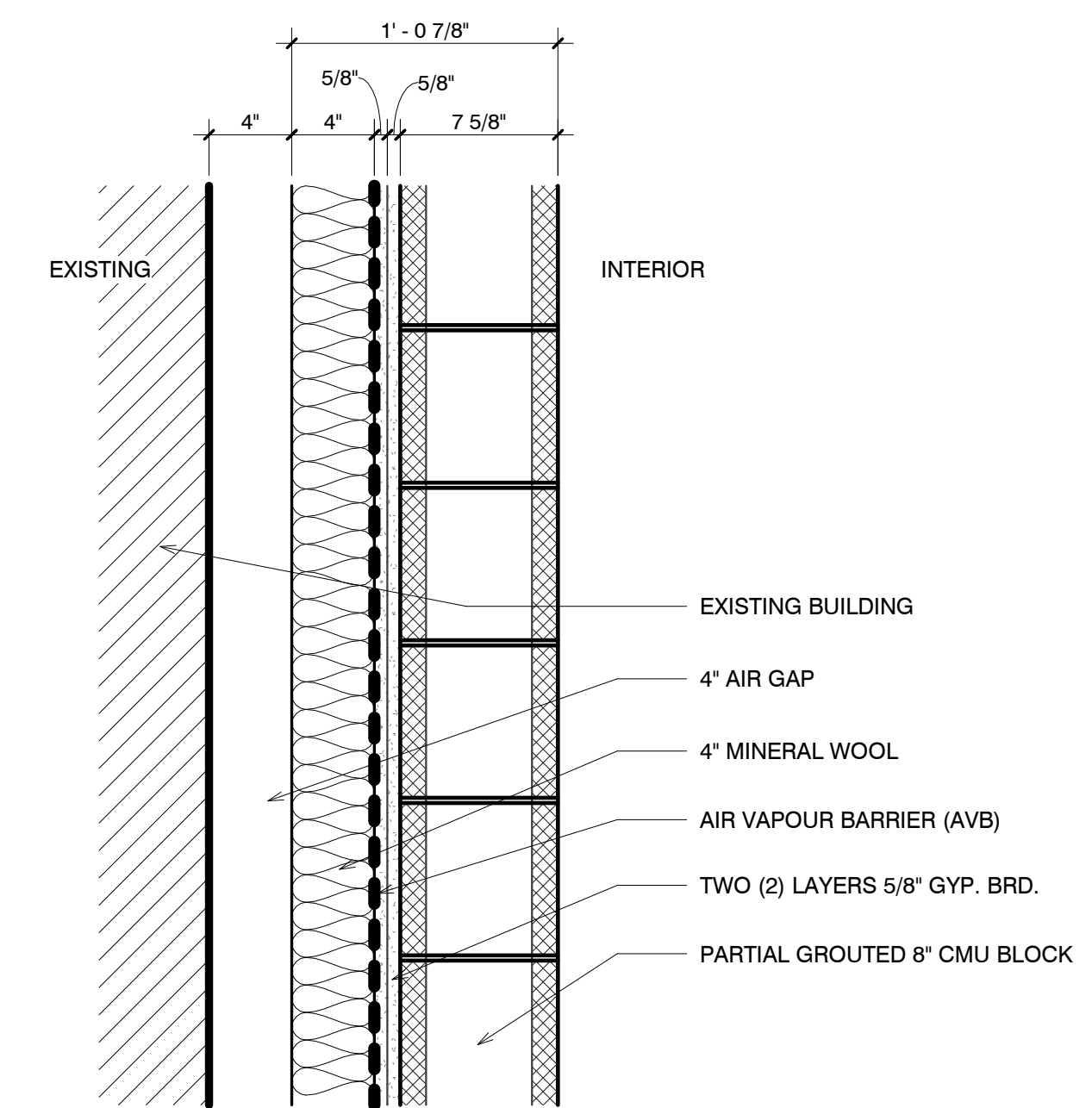
DETAIL - SHEAR WALL - 4 HOUR (C5) 7
SCALE: 1 1/2" = 1'-0"



DETAIL - SHEAR WALL - 4 HOUR (C4) 5
SCALE: 1 1/2" = 1'-0"



DETAIL - EXT. WALL - 2 HOUR (C3) 3
SCALE: 1 1/2" = 1'-0"



DETAIL - EXT. WALL - 2 HOUR (C2) 1
SCALE: 1 1/2" = 1'-0"

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Rated Wall Sections

Project number	21001
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Scale	1 1/2" = 1'-0"

A720

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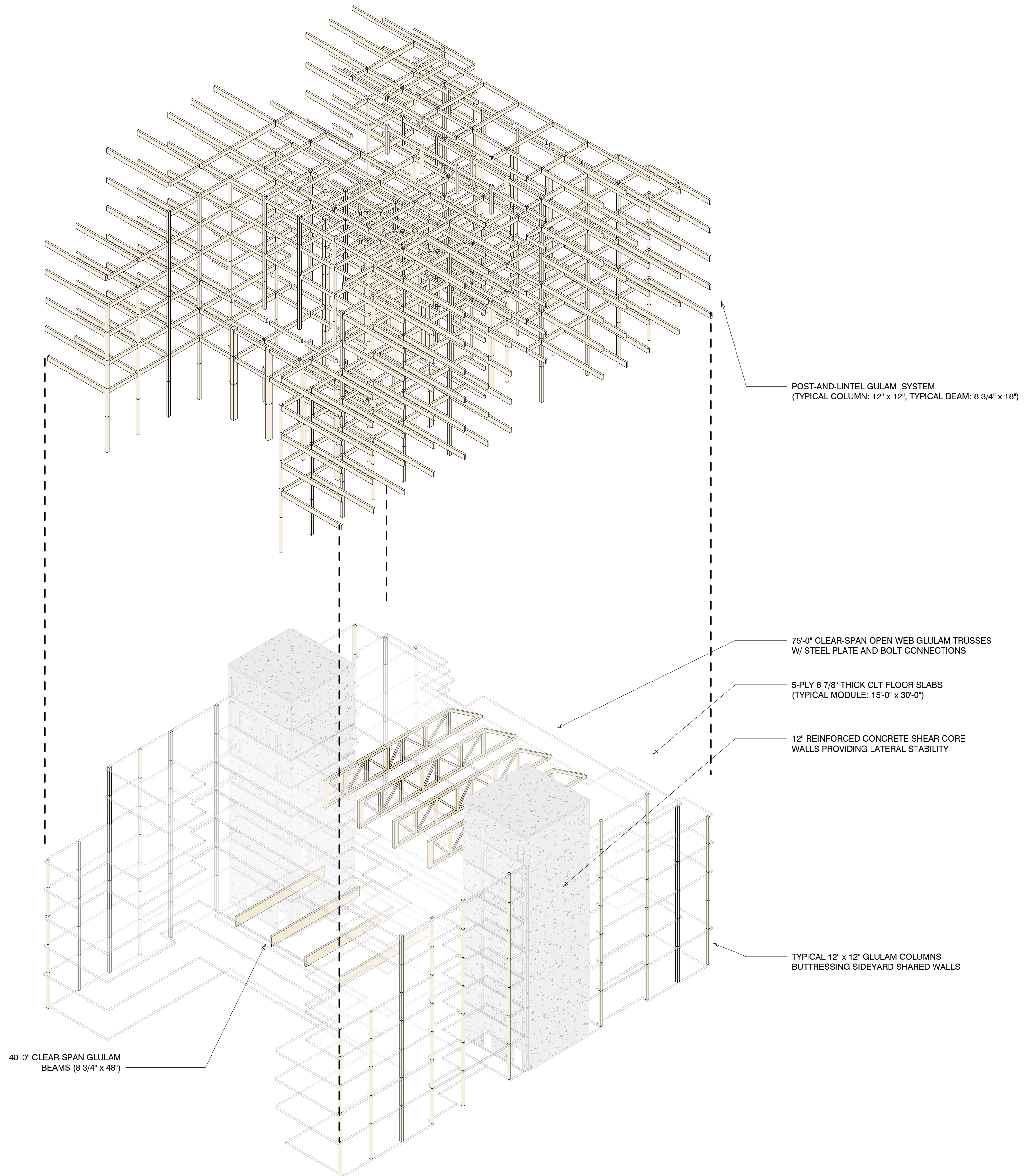
Structural Axonometric

Project number 21001

Date Dec. 17, 2021

Scale NTS

S100



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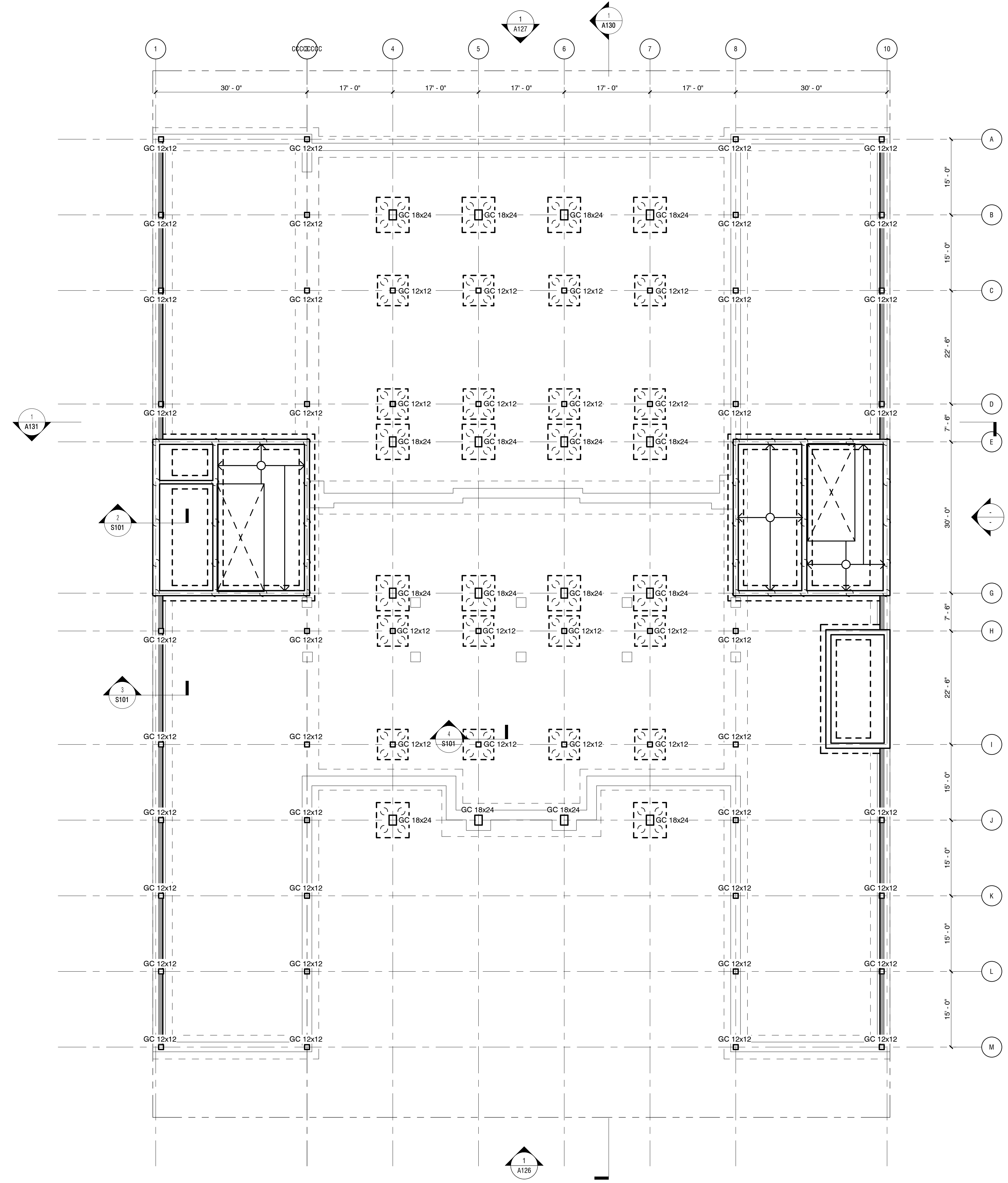
Structural Plans - Foundation

Project number	21001
Date	Dec. 17, 2021
Scale	3/32" = 1'-0"

S101

LEGEND:

- GB X x X GLULAM BEAM
- 5 PLY CLT 5-PLY CROSS-LAMINATED TIMBER
- X C CONCRETE SHEAR WALL
- COLUMN
- - - - - FACADE
- TR-1 TRUSS
- TENS TENSION ROD
- ⊙_H FLOOR HANGING FROM ABOVE
- ⊙ COLUMN ABOVE
- ⊙ COLUMN BELOW
- CANT CANTILEVERED BEAM
- ↕ TWO-WAY 8" CONCRETE SLAB
- ==== NEW SHEAR WALL
- - - - - EXISTING FOUNDATION WALL
- ==== EXISTING FOUNDATION FOOTING
- ==== NEW 10" CONCRETE WALL
- - - - - NEW FOUNDATION FOOTING



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Structural Plans - Ground Floor

Project number 21001

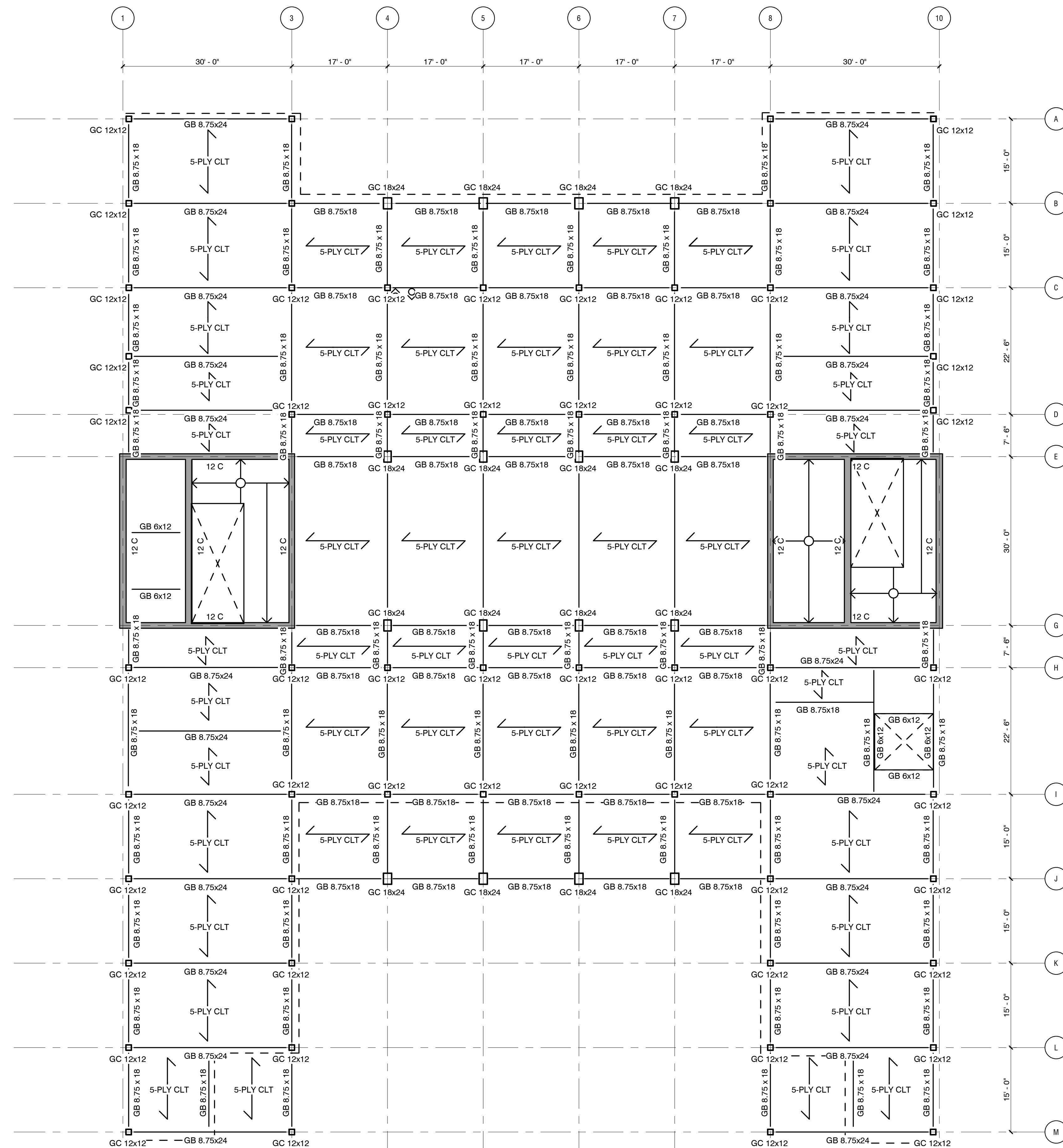
Date Dec. 17, 2021

Scale 3/32" = 1'-0"

S102

LEGEND:

GB X x X	GLULAM BEAM
5-PLY CLT	5-PLY CROSS-LAMINATED TIMBER
X C	CONCRETE SHEAR WALL
□	COLUMN
- - - -	FACADE
TR-1	TRUSS
TENS	TENSION ROD
⊙ _H	FLOOR HANGING FROM ABOVE
⊙	COLUMN ABOVE
⊙	COLUMN BELOW
CANT	CANTILEVERED BEAM
↕	TWO-WAY 8" CONCRETE SLAB
==	NEW SHEAR WALL
- - - -	EXISTING FOUNDATION WALL
==	EXISTING FOUNDATION FOOTING
==	NEW 10" CONCRETE WALL
- - - -	NEW FOUNDATION FOOTING



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Structural Plans - Level 2

Project number 21001

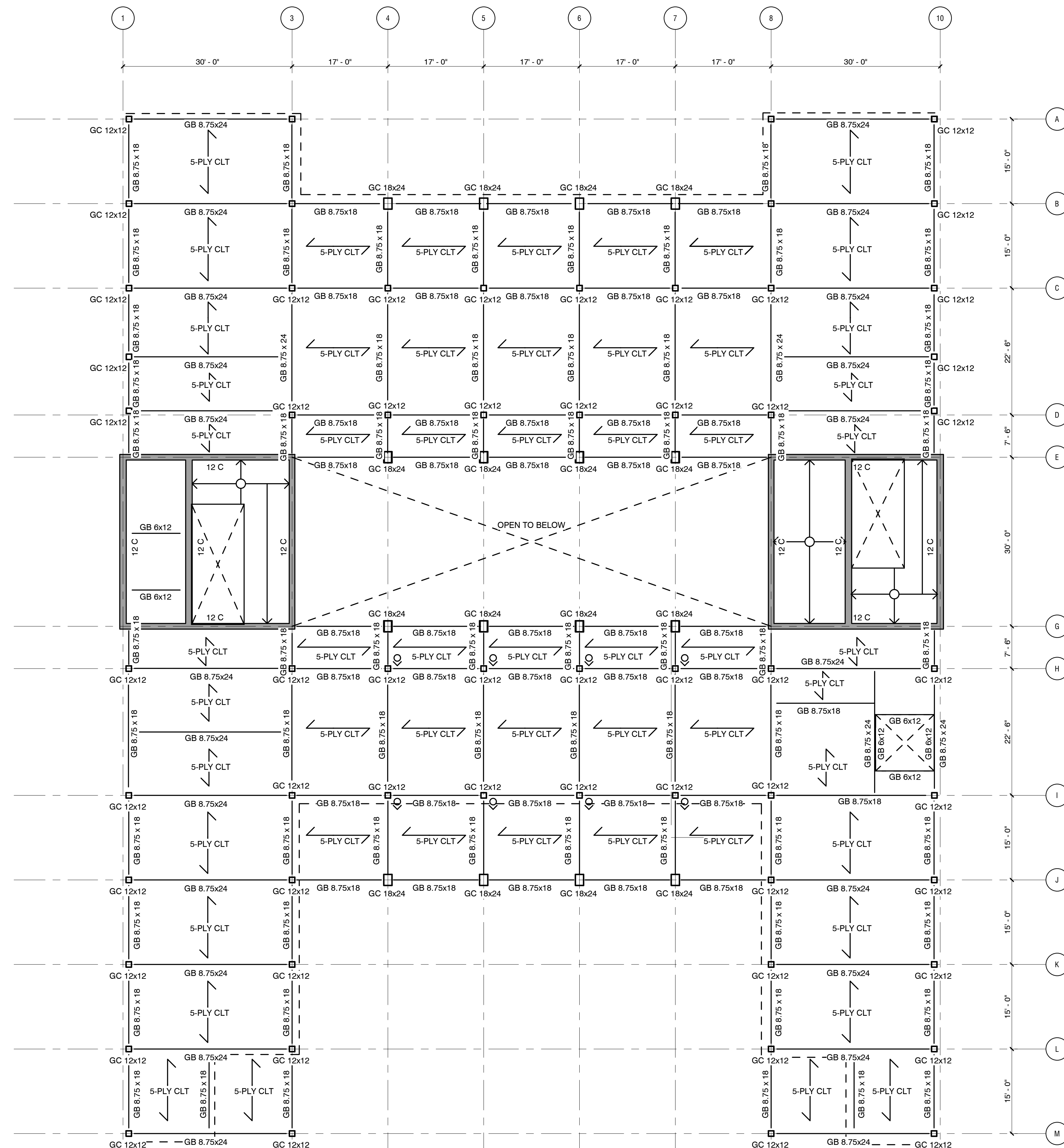
Date Dec. 17, 2021

Scale 3/32" = 1'-0"

S103

LEGEND:

GB X x X	GLULAM BEAM
5-PLY CLT	5-PLY CROSS-LAMINATED TIMBER
X C	CONCRETE SHEAR WALL
□	COLUMN
- - - -	FACADE
TR-1	TRUSS
TENS	TENSION ROD
⊙ _H	FLOOR HANGING FROM ABOVE
⊙	COLUMN ABOVE
⊙	COLUMN BELOW
CANT	CANTILEVERED BEAM
↕	TWO-WAY 8" CONCRETE SLAB
==	NEW SHEAR WALL
- - - -	EXISTING FOUNDATION WALL
==	EXISTING FOUNDATION FOOTING
==	NEW 10" CONCRETE WALL
- - - -	NEW FOUNDATION FOOTING



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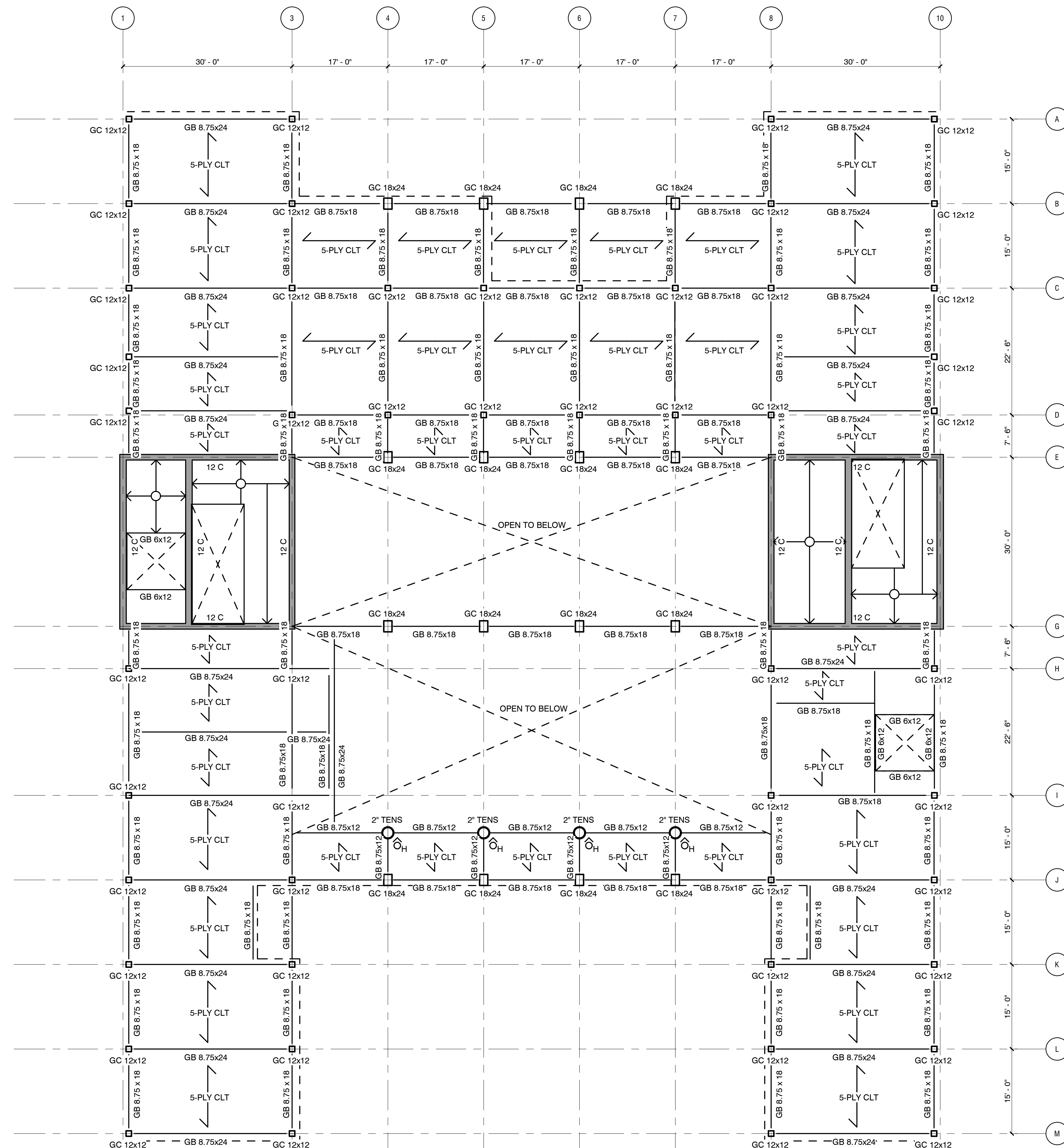
Structural Plans - Level 3

Project number	21001
Date	Dec. 17, 2021
Scale	3/32" = 1'-0"

S104

LEGEND:

	GLULAM BEAM
	5-PLY CROSS-LAMINATED TIMBER
	CONCRETE SHEAR WALL
	COLUMN
	FACADE
	TRUSS
	TENSION ROD
	FLOOR HANGING FROM ABOVE
	COLUMN ABOVE
	COLUMN BELOW
	CANTILEVERED BEAM
	TWO-WAY 8" CONCRETE SLAB
	NEW SHEAR WALL
	EXISTING FOUNDATION WALL
	EXISTING FOUNDATION FOOTING
	NEW 10" CONCRETE WALL
	NEW FOUNDATION FOOTING



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Structural Plans - Level 4

Project number 21001

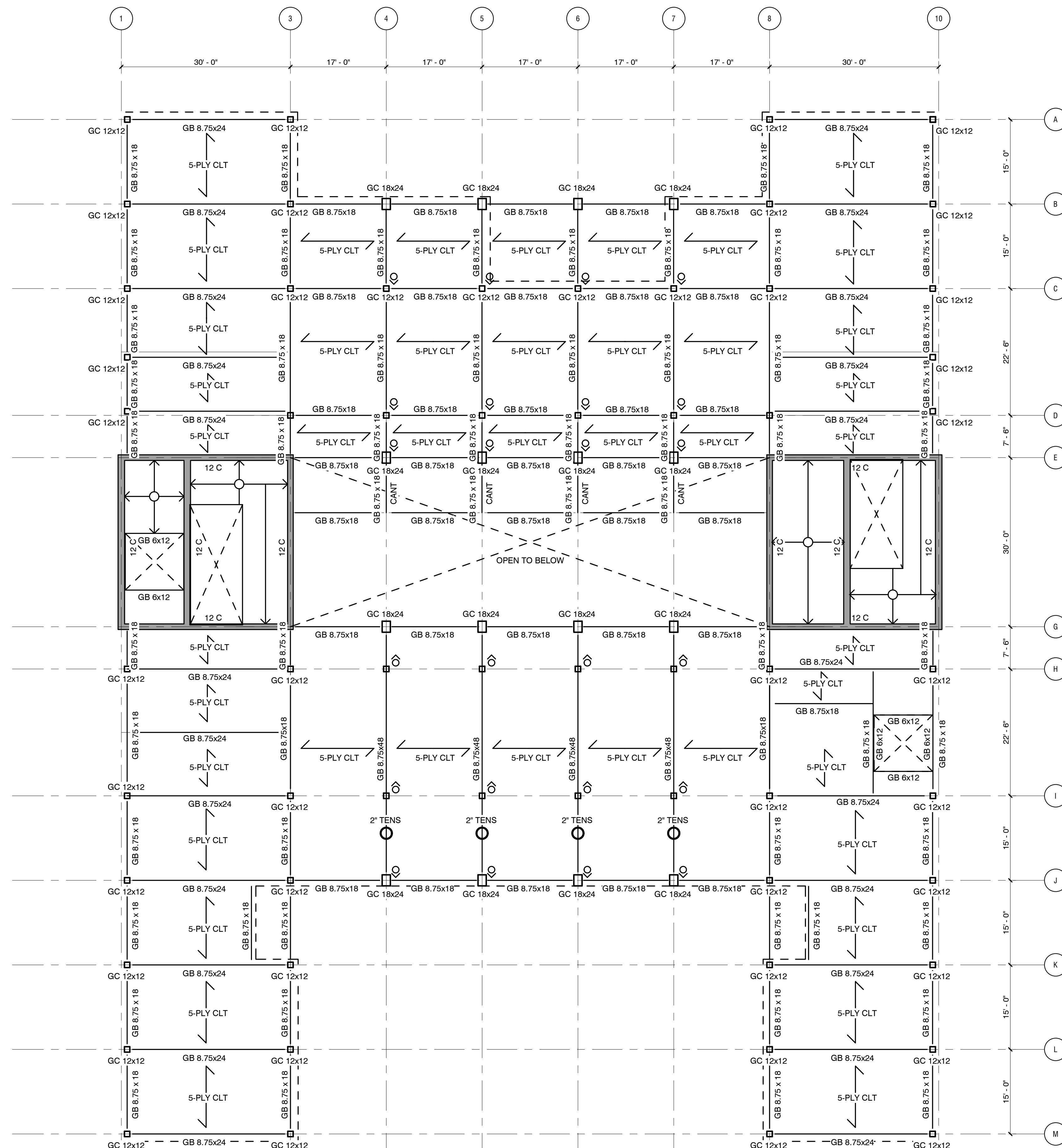
Date Dec. 17, 2021

Scale 3/32" = 1'-0"

S105

LEGEND:

	GLULAM BEAM
	5-PLY CROSS-LAMINATED TIMBER
	CONCRETE SHEAR WALL
	COLUMN
	FACADE
	TRUSS
	TENSION ROD
	FLOOR HANGING FROM ABOVE
	COLUMN ABOVE
	COLUMN BELOW
	CANTILEVERED BEAM
	TWO-WAY 8" CONCRETE SLAB
	NEW SHEAR WALL
	EXISTING FOUNDATION WALL
	EXISTING FOUNDATION FOOTING
	NEW 10" CONCRETE WALL
	NEW FOUNDATION FOOTING



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Structural Plans - Level 5

Project number 21001

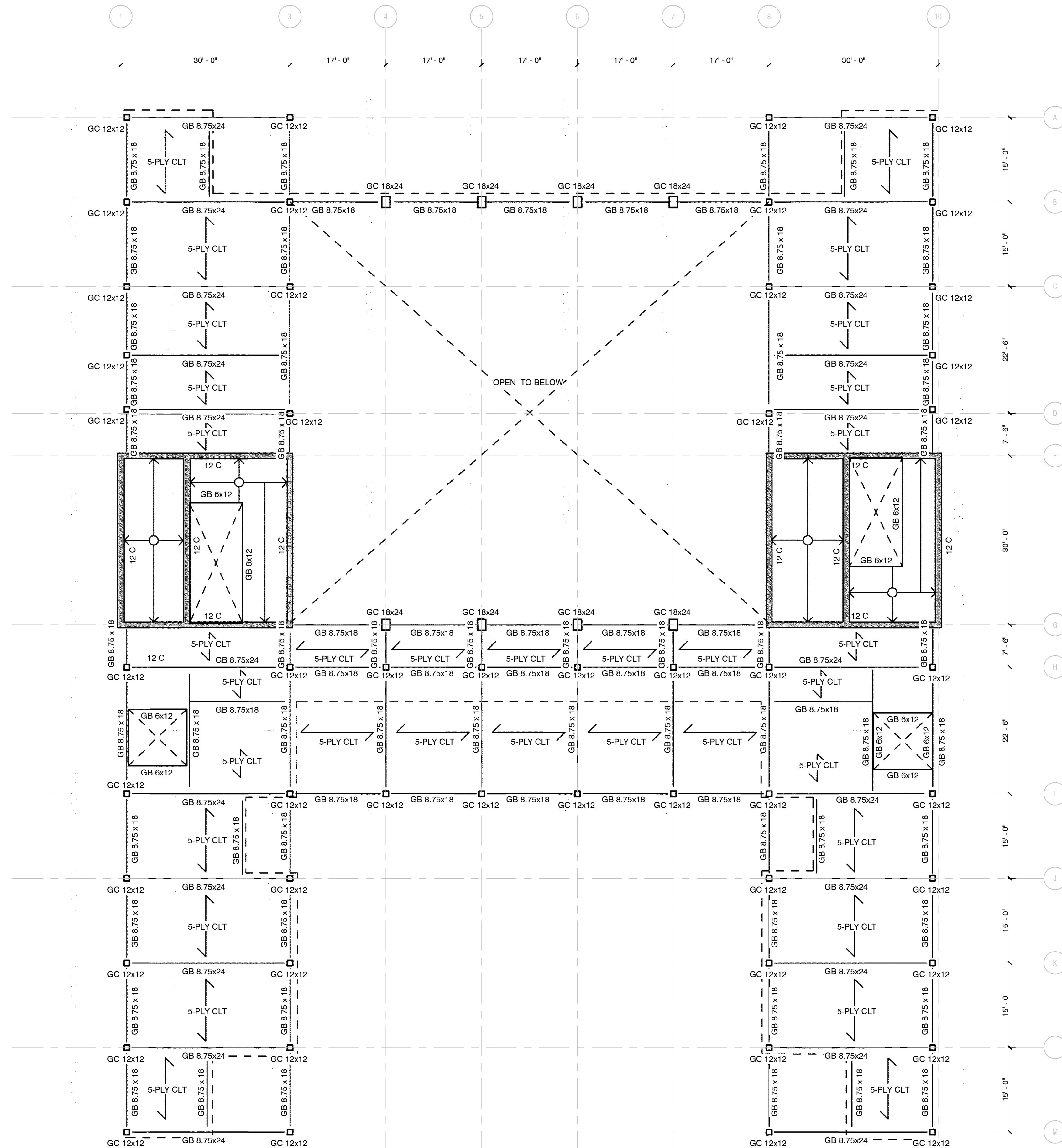
Date Dec. 17, 2021

Scale 3/32" = 1'-0"

S106

LEGEND:

	GLULAM BEAM
	5-PLY CROSS-LAMINATED TIMBER
	CONCRETE SHEAR WALL
	COLUMN
	FACADE
	TRUSS
	TENSION ROD
	FLOOR HANGING FROM ABOVE
	COLUMN ABOVE
	COLUMN BELOW
	CANTILEVERED BEAM
	TWO-WAY 8" CONCRETE SLAB
	NEW SHEAR WALL
	EXISTING FOUNDATION WALL
	EXISTING FOUNDATION FOOTING
	NEW 10" CONCRETE WALL
	NEW FOUNDATION FOOTING



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Structural Plans - Level 6

Project number 21001

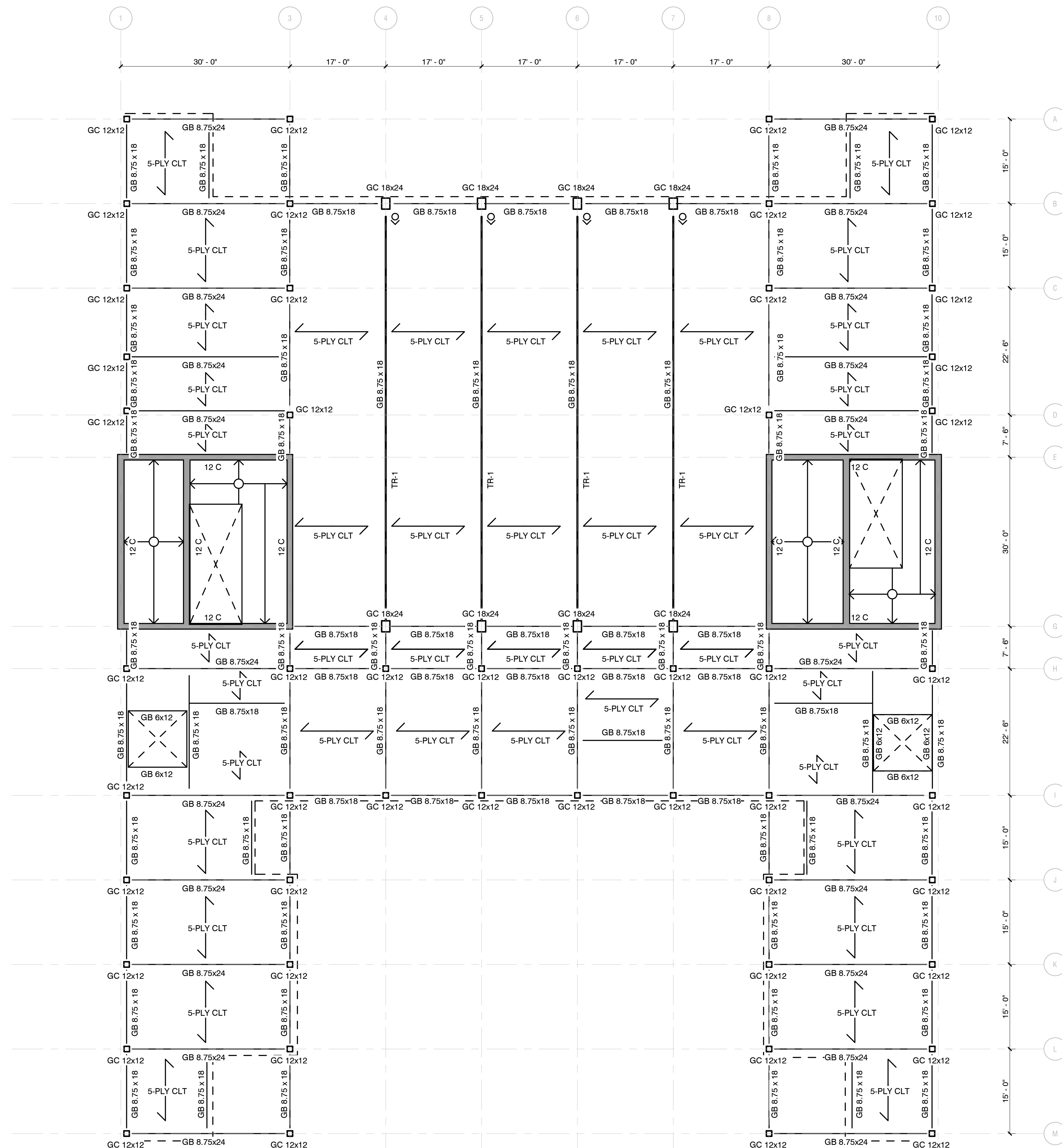
Date Dec. 17, 2021

Scale 3/32" = 1'-0"

S107

LEGEND:

GB X x X	GLULAM BEAM
5-PLY CLT	5-PLY CROSS-LAMINATED TIMBER
X C	CONCRETE SHEAR WALL
□	COLUMN
---	FACADE
TR-1	TRUSS
TENS	TENSION ROD
⊙ _H	FLOOR HANGING FROM ABOVE
⊙	COLUMN ABOVE
⊙	COLUMN BELOW
CANT	CANTILEVERED BEAM
↕	TWO-WAY 8" CONCRETE SLAB
==	NEW SHEAR WALL
---	EXISTING FOUNDATION WALL
---	EXISTING FOUNDATION FOOTING
==	NEW 10" CONCRETE WALL
---	NEW FOUNDATION FOOTING



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Structural Plans - Level 7

Project number 21001

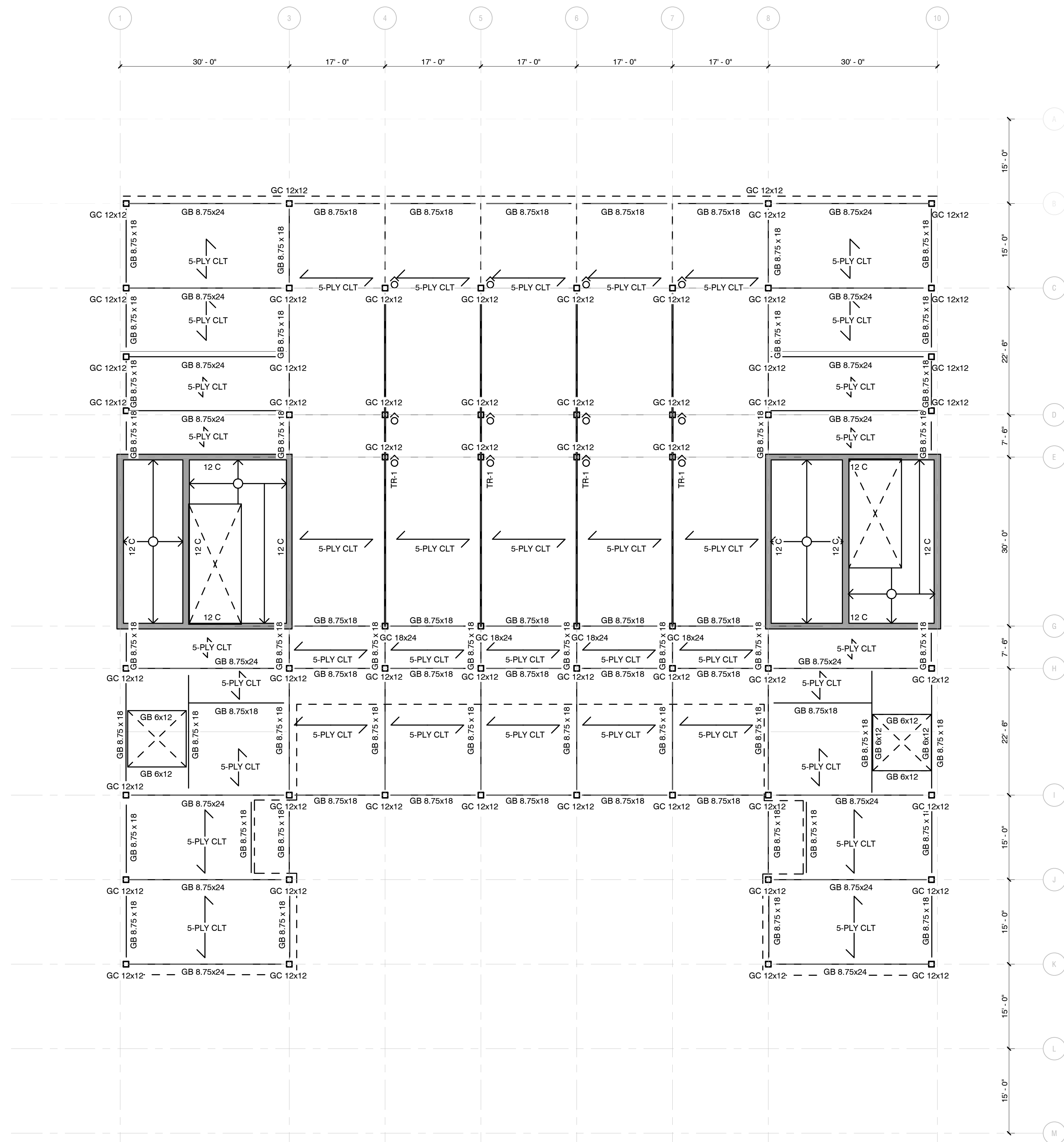
Date Dec. 17, 2021

Scale 3/32" = 1'-0"

S108

LEGEND:

	GLULAM BEAM
	5-PLY CROSS-LAMINATED TIMBER
	CONCRETE SHEAR WALL
	COLUMN
	FACADE
	TRUSS
	TENSION ROD
	FLOOR HANGING FROM ABOVE
	COLUMN ABOVE
	COLUMN BELOW
	CANTILEVERED BEAM
	TWO-WAY 8" CONCRETE SLAB
	NEW SHEAR WALL
	EXISTING FOUNDATION WALL
	EXISTING FOUNDATION FOOTING
	NEW 10" CONCRETE WALL
	NEW FOUNDATION FOOTING



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Structural Plans - Roof

Project number 21001

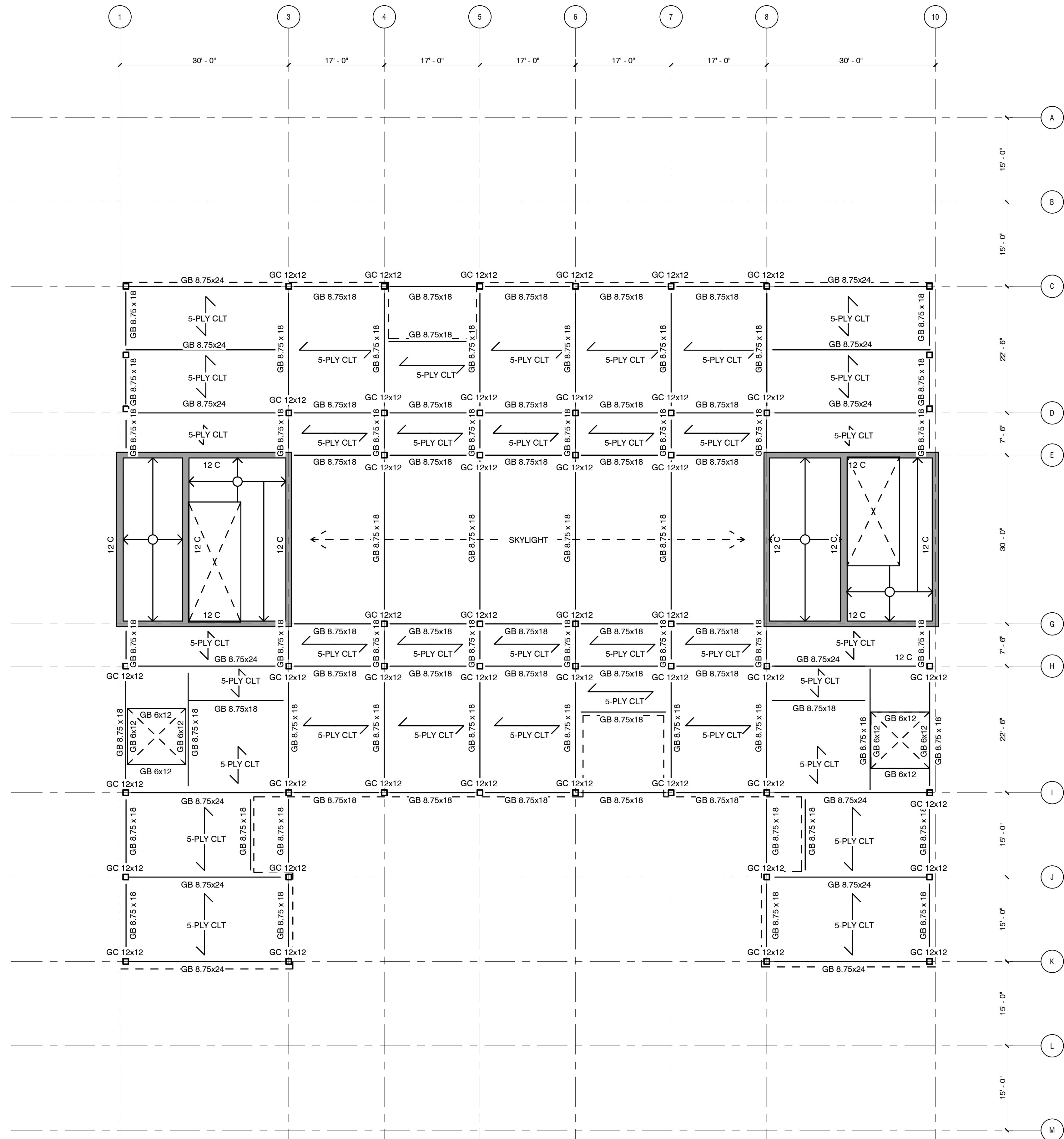
Date Dec. 17, 2021

Scale 3/32" = 1'-0"

S109

LEGEND:

	GLULAM BEAM
	5-PLY CROSS-LAMINATED TIMBER
	CONCRETE SHEAR WALL
	COLUMN
	FACADE
	TRUSS
	TENSION ROD
	FLOOR HANGING FROM ABOVE
	COLUMN ABOVE
	COLUMN BELOW
	CANTILEVERED BEAM
	TWO-WAY 8' CONCRETE SLAB
	NEW SHEAR WALL
	EXISTING FOUNDATION WALL
	EXISTING FOUNDATION FOOTING
	NEW 10' CONCRETE WALL
	NEW FOUNDATION FOOTING



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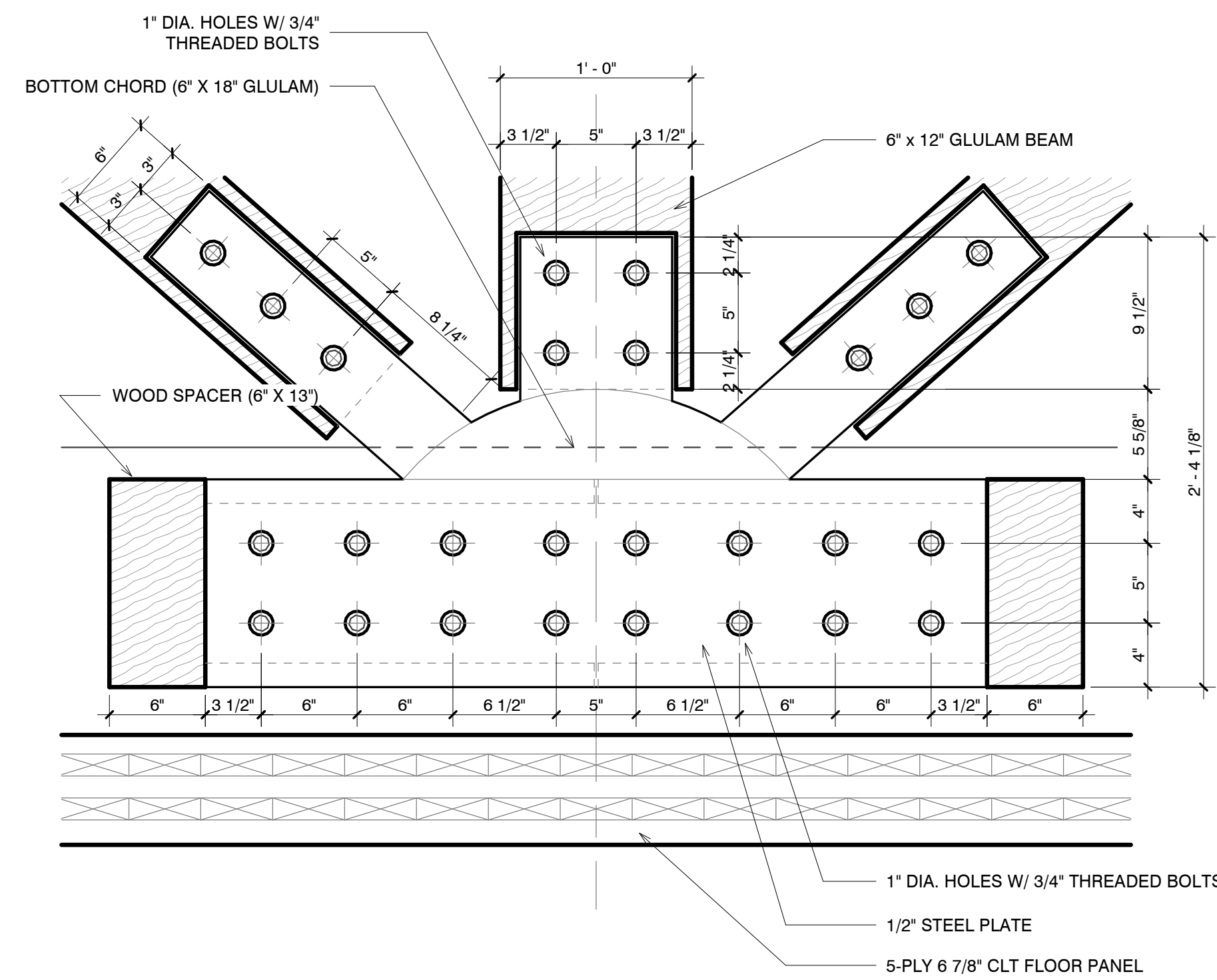
Architect
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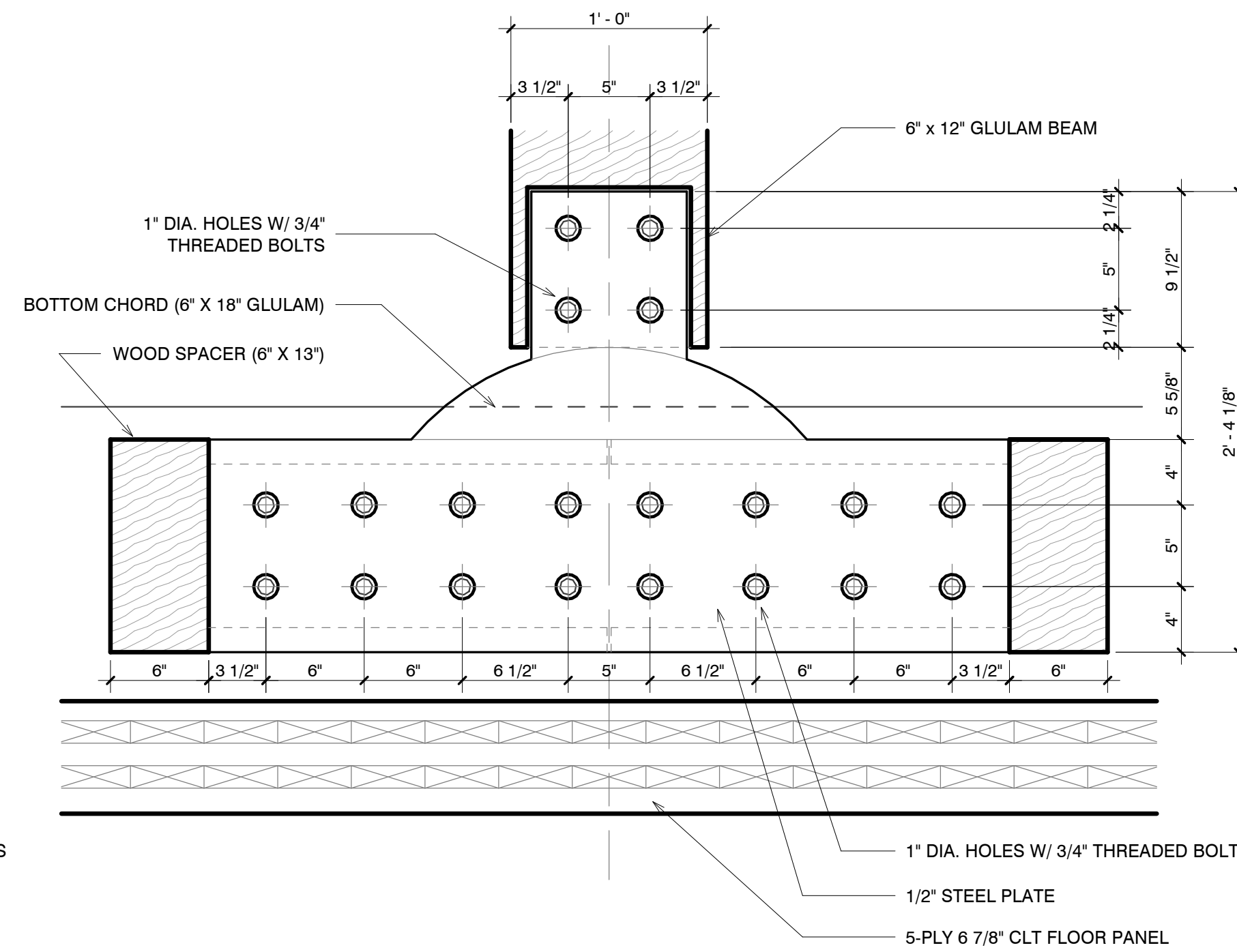
Mechanical Consultant
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Enclosure Consultant
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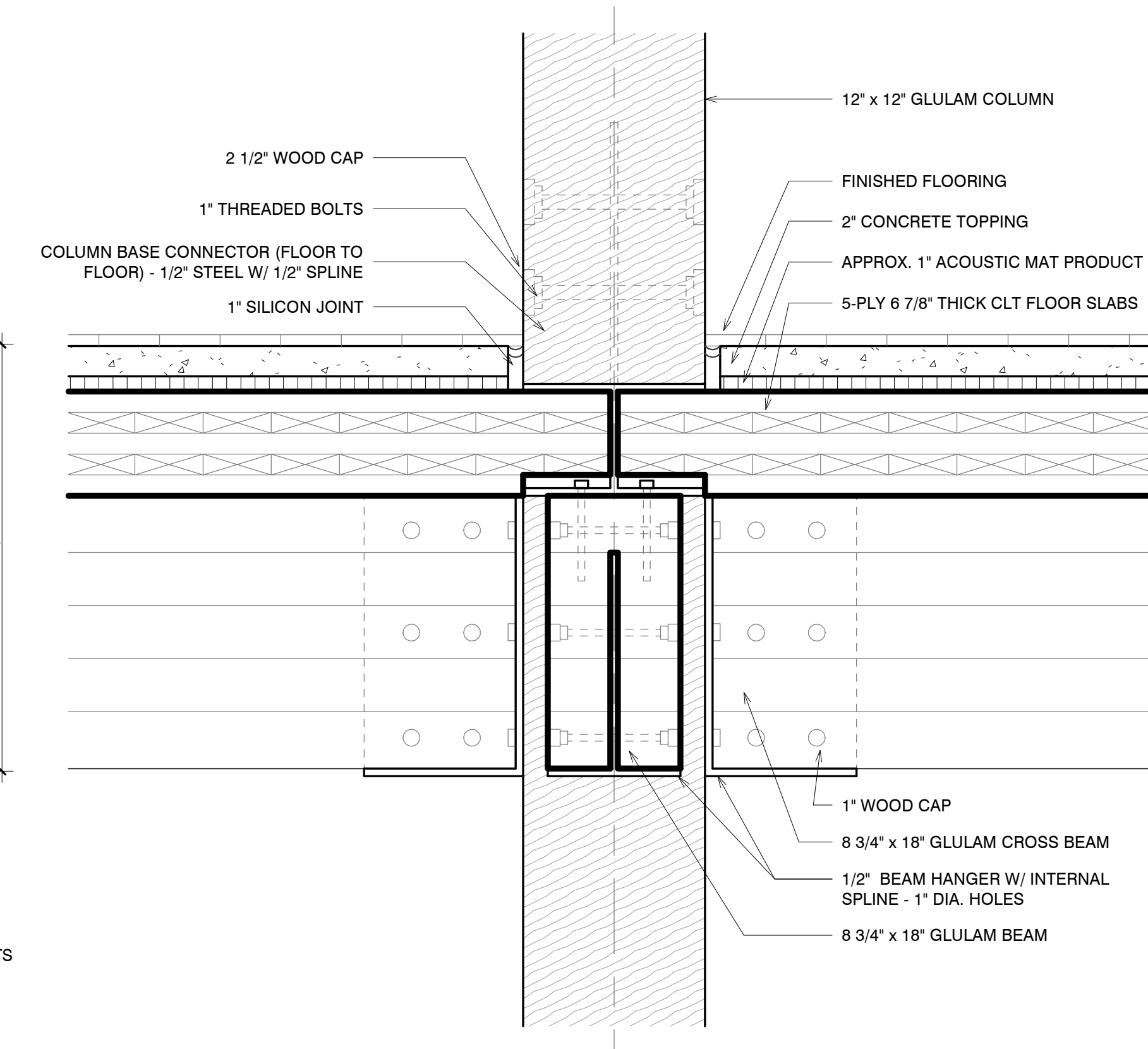
Designers
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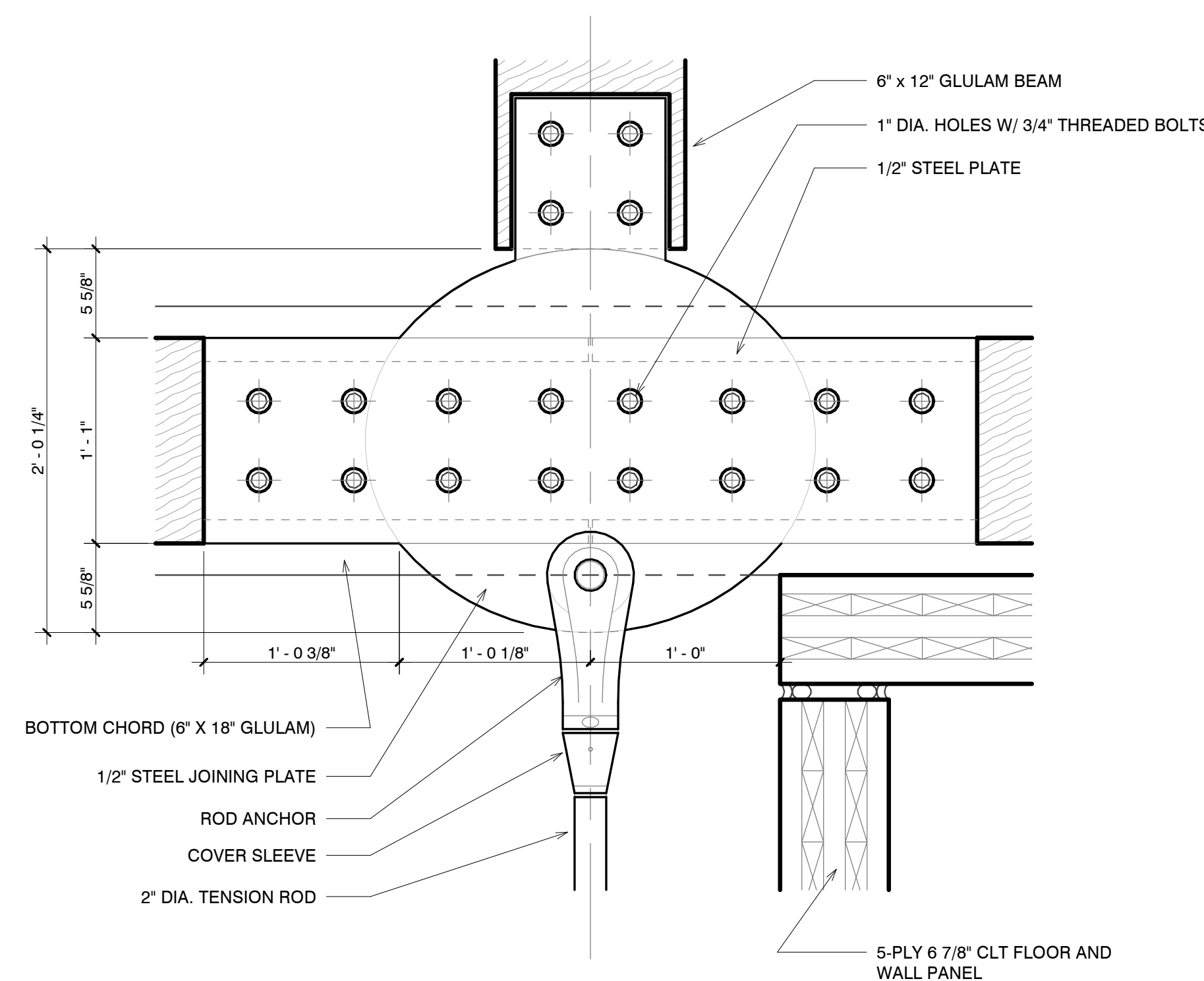
TYPICAL PLATE CONNECTION - TYPE B 5
SCALE: 1 1/2" = 1'-0"



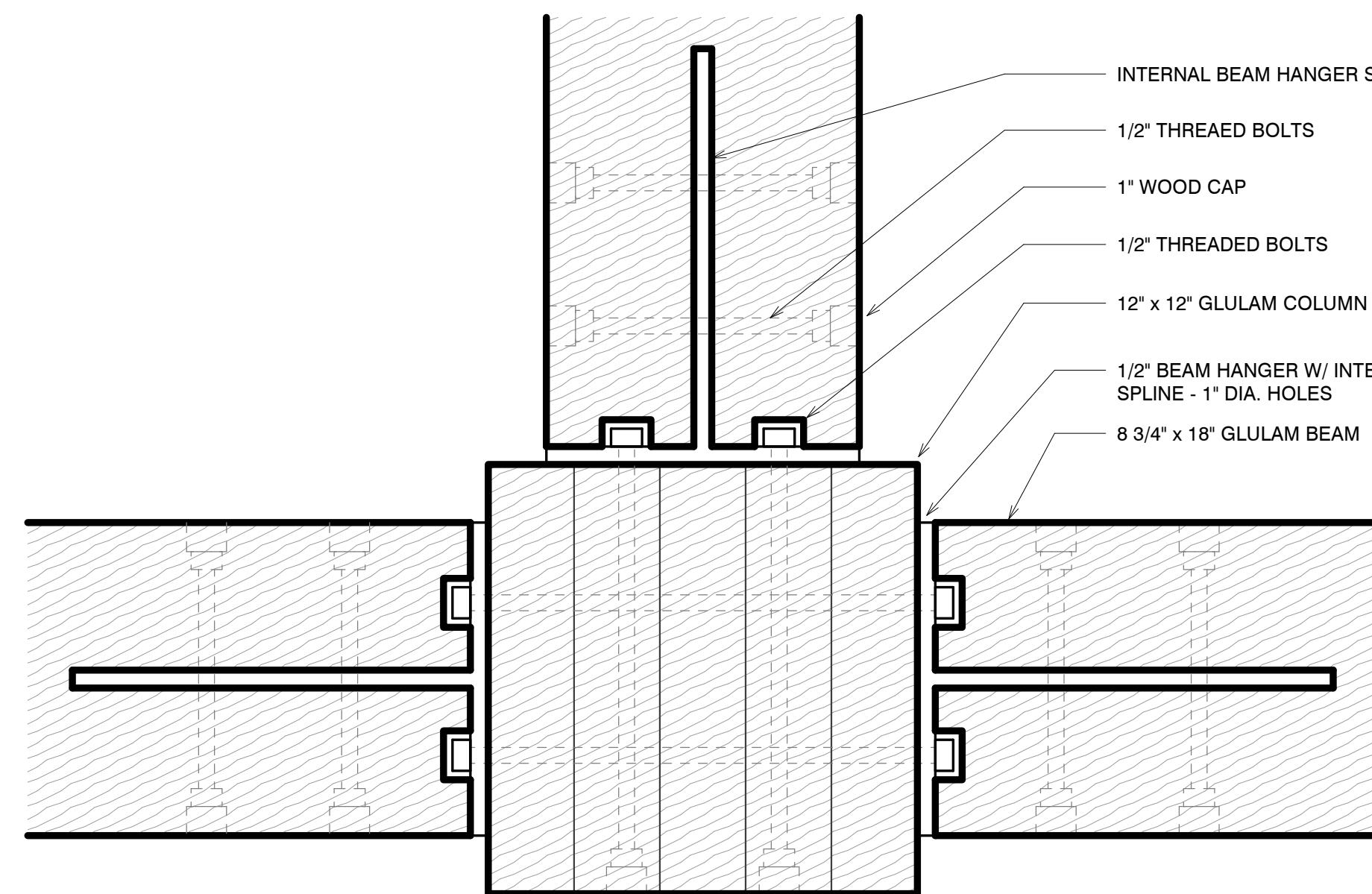
TYPICAL PLATE CONNECTION - TYPE A 4
SCALE: 1 1/2" = 1'-0"



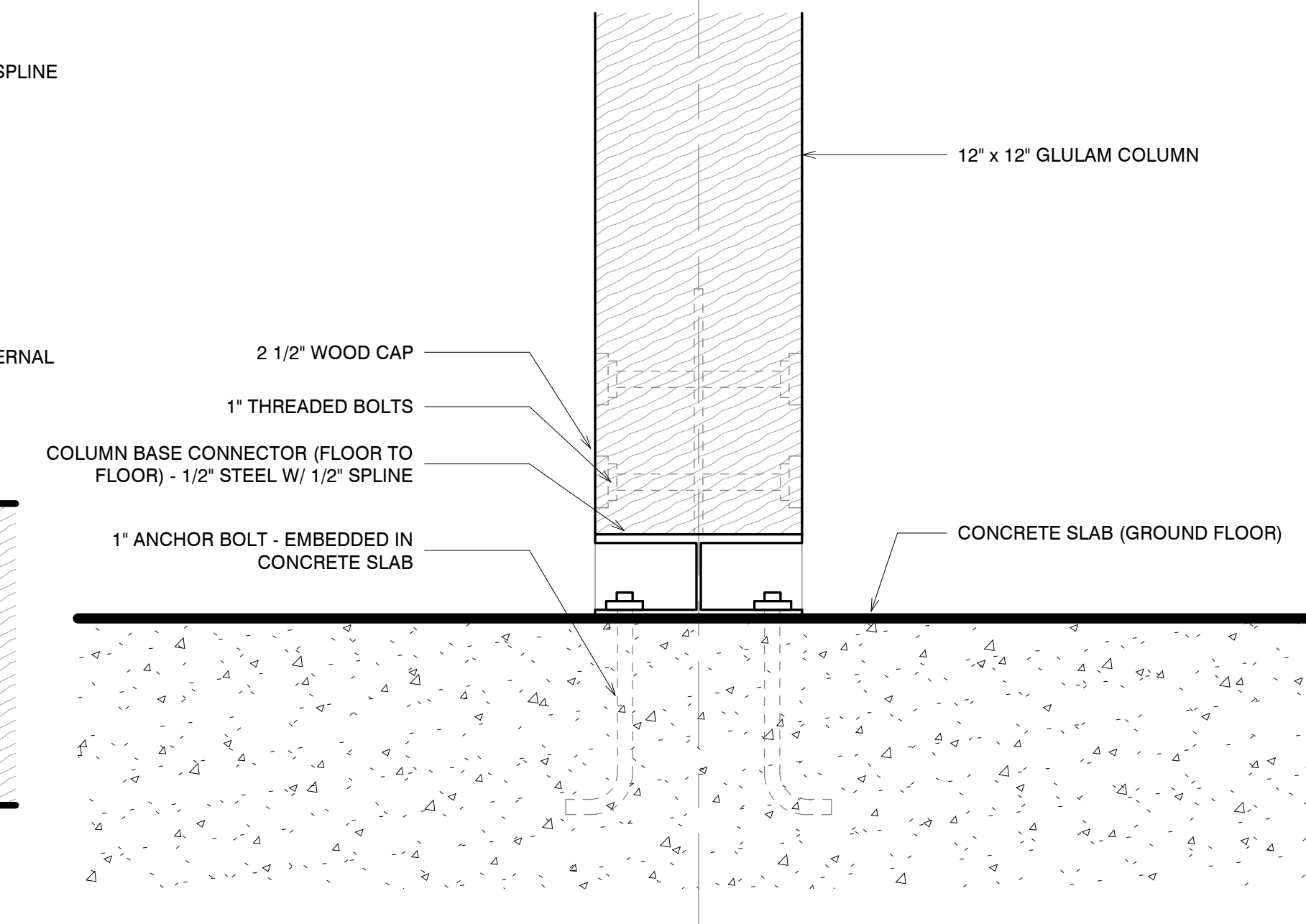
COLUMN - BEAM SECTION DETAIL 2
SCALE: 1 1/2" = 1'-0"



TENSION ROD CONNECTION DETAIL 6
SCALE: 1 1/2" = 1'-0"



COLUMN - BEAM PLAN DETAIL 3
SCALE: 3" = 1'-0"



COLUMN - BASE SECTION DETAIL 1
SCALE: 1 1/2" = 1'-0"

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Structural
Details - Wood

Project number	21001
Date	Dec. 17, 2021
Scale	VARIES

S301

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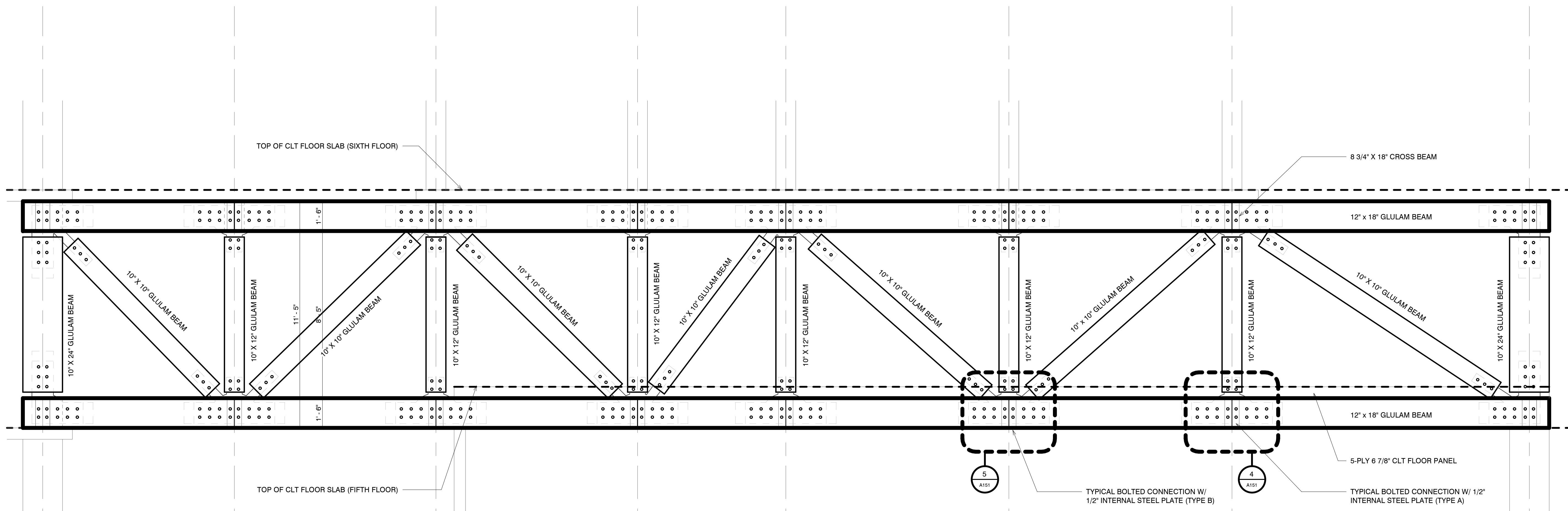
Structral Details - Trusses

Project number 21001

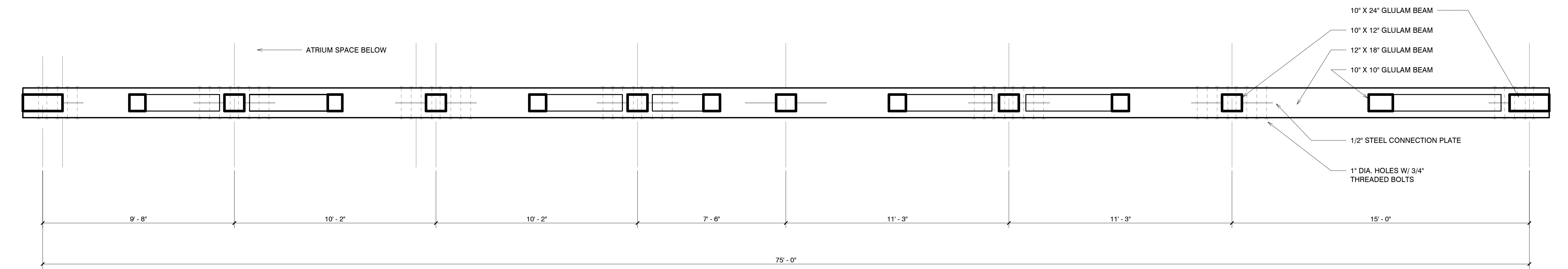
Date Dec. 17, 2021

Scale 3/8" = 1'-0"

S302



CLEAR-SPAN OPEN WEB TRUSS - ELEVATION 2
SCALE: 3/8" = 1'-0"



CLEAR-SPAN OPEN WEB TRUSS - PLAN 1
SCALE: 3/8" = 1'-0"

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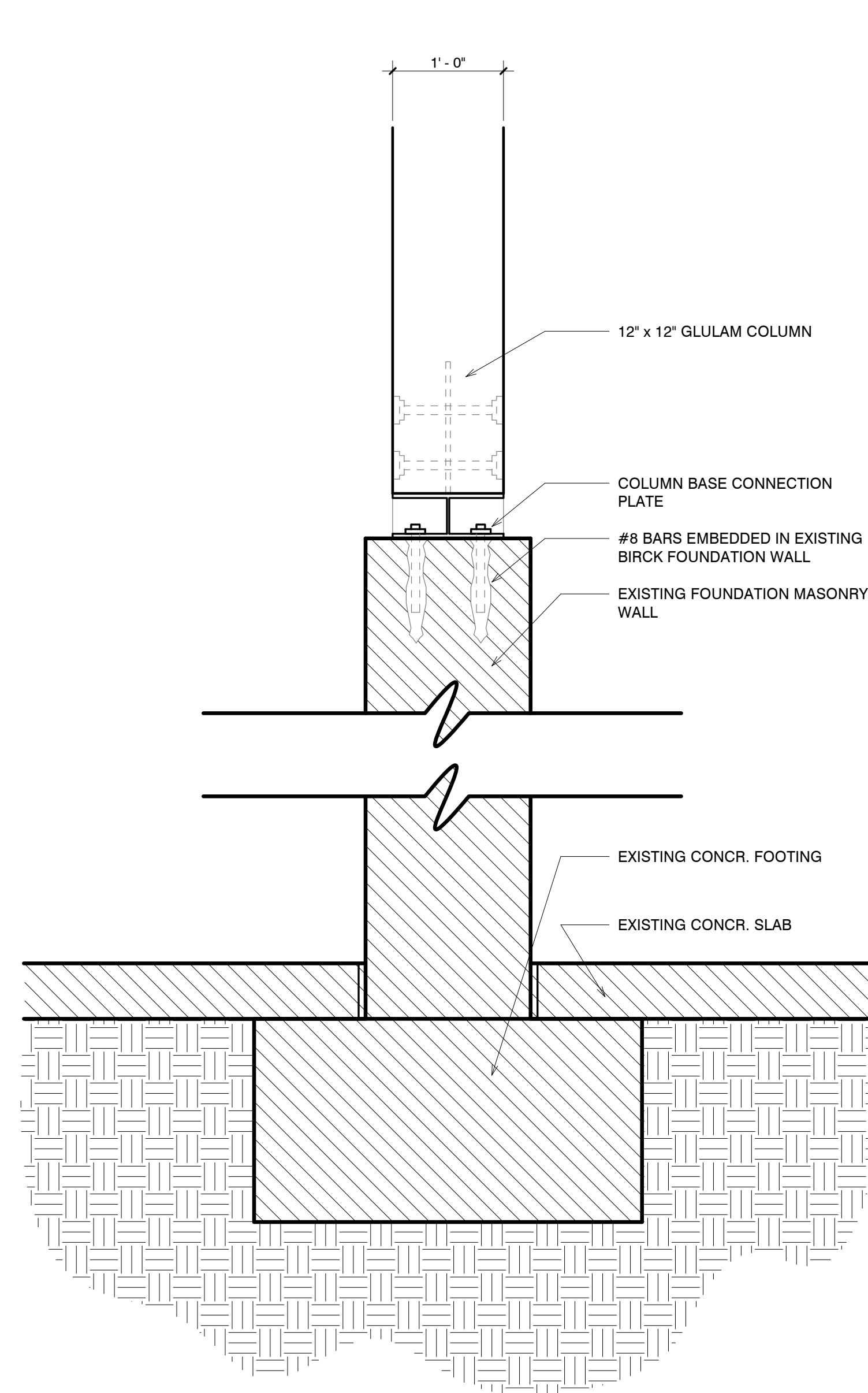
Structural Details – Foundation

Project number 21001

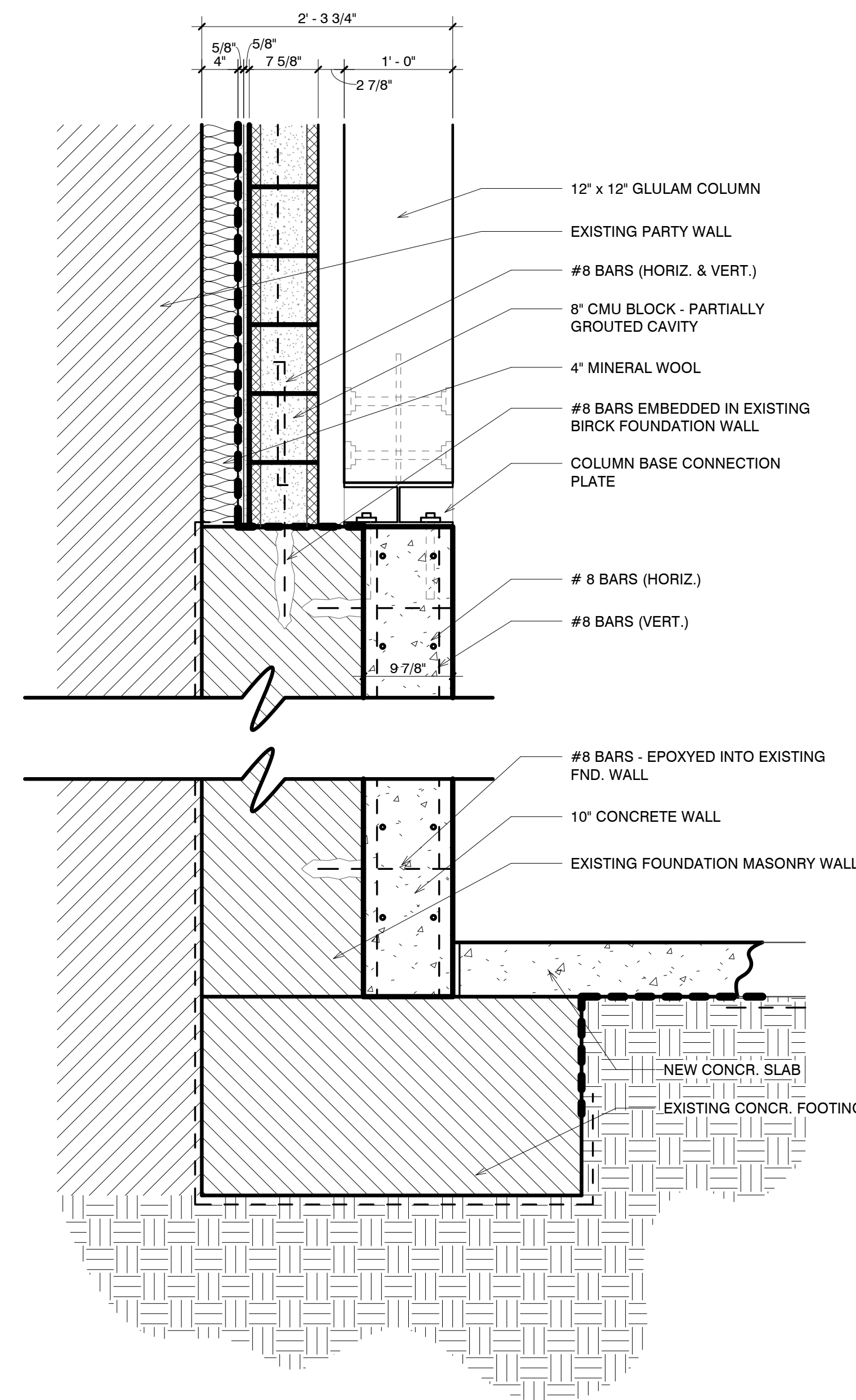
Date Dec. 17, 2021

Scale 1" = 1'-0"

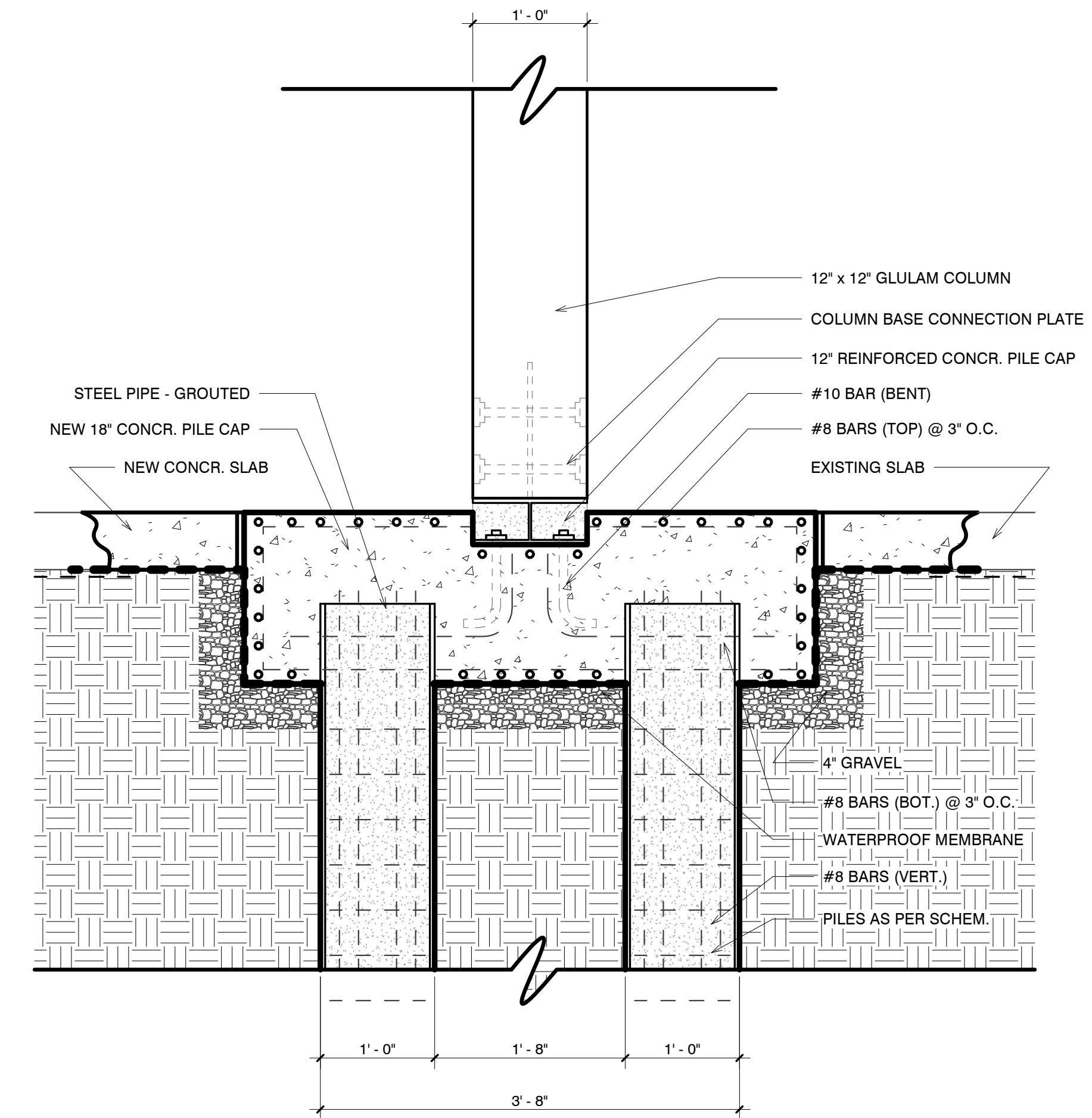
S303



NEW - EXISTING FOUNDATION DETAIL 3
SCALE: 1" = 1'-0"



NEW - EXISTING PERIM. FOUNDATION DETAIL 2
SCALE: 1" = 1'-0"



NEW PILE FOUNDATION DETAIL 1
SCALE: 1" = 1'-0"

MASS TIMBER

Mass timber beams and columns reduce the overall carbon footprint of the construction process. Glulam and CLT are entirely renewable and sequester carbon. In addition, they're able to be pre-fabricated which reduces waste and emissions.

DAYLIGHTING

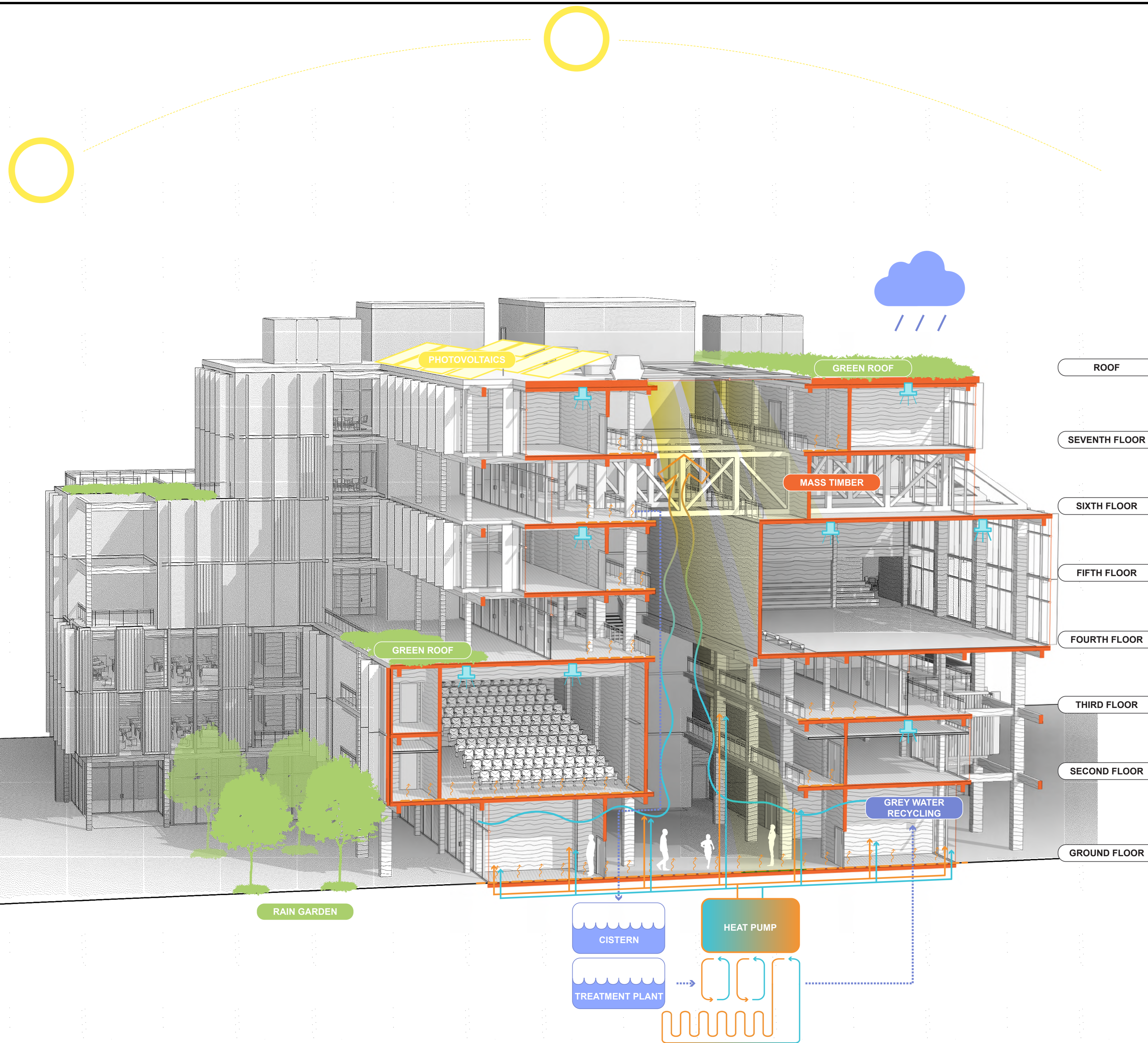
A large seven-floor atrium in the center of the school allows sunlight to reach all floors. The classrooms are arranged along the wings and central atrium in order to reduce the need for electric lighting. Sun shades on the façade minimize solar heat gain.

SOLAR AND GEOTHERMAL

Geothermal heat pumps generate and transfer electricity from deep below the Earth's surface into the basement of the school without carbon emissions. In conjunction, photovoltaic panels oriented toward the sun provide renewable electricity to the structure as auxiliary to daylighting.

WASTEWATER MGMT & REUSE

Internal wastewater treatment reduces the structure's reliance on traditional water utilities by filtering out compounds deemed harmful from otherwise usable water. Additional cisterns store filtered water that has been used on-site. Extensive green roofs and ground floor rain gardens use rainwater to support plant/wildlife.



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Sustainability Strategy Diagram

Project number 21001

Date Dec. 17, 2021

Scale NTS

M001

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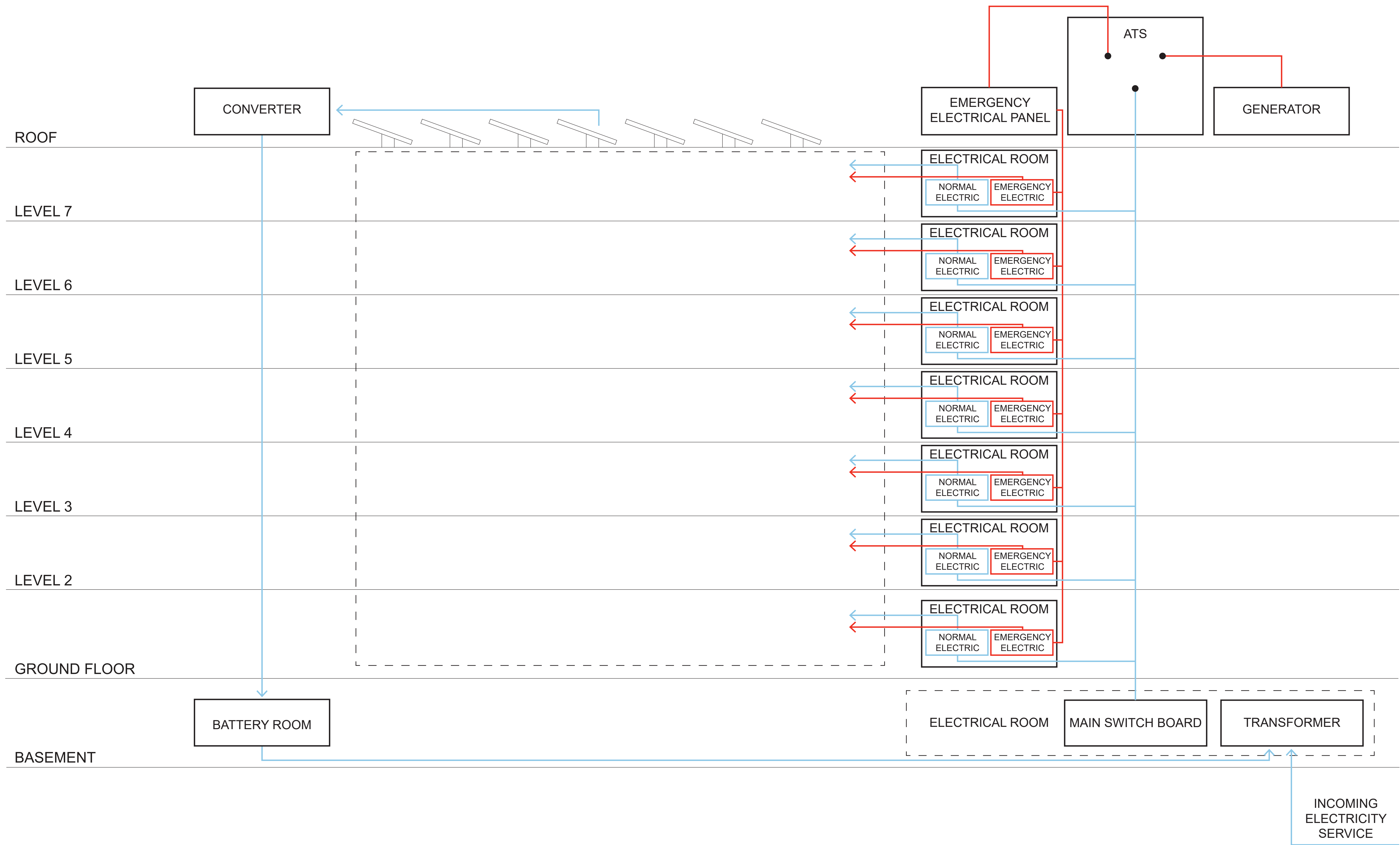
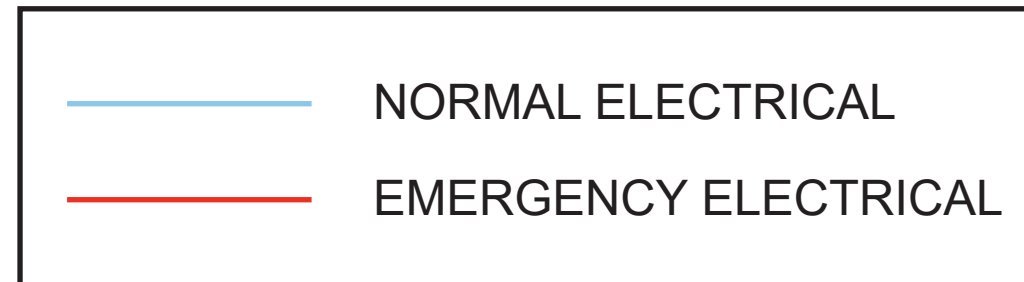
Electrical Power Distribution

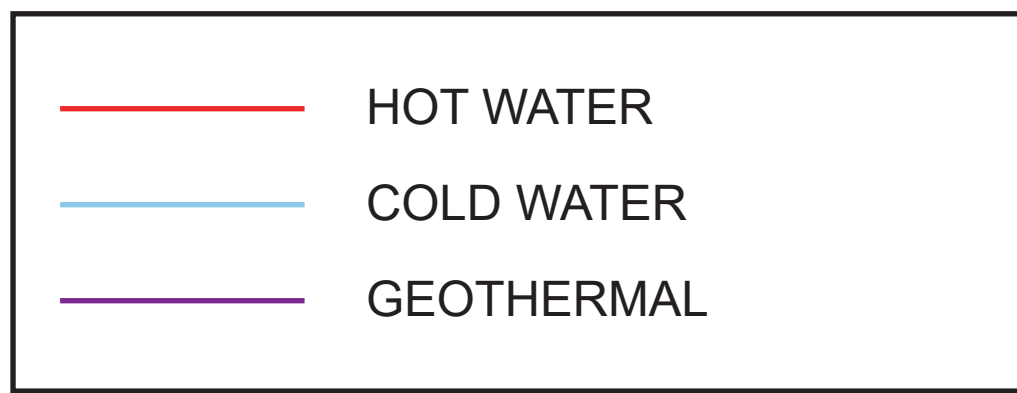
Project number

Date

Scale 1/8" = 1'-0"

A131





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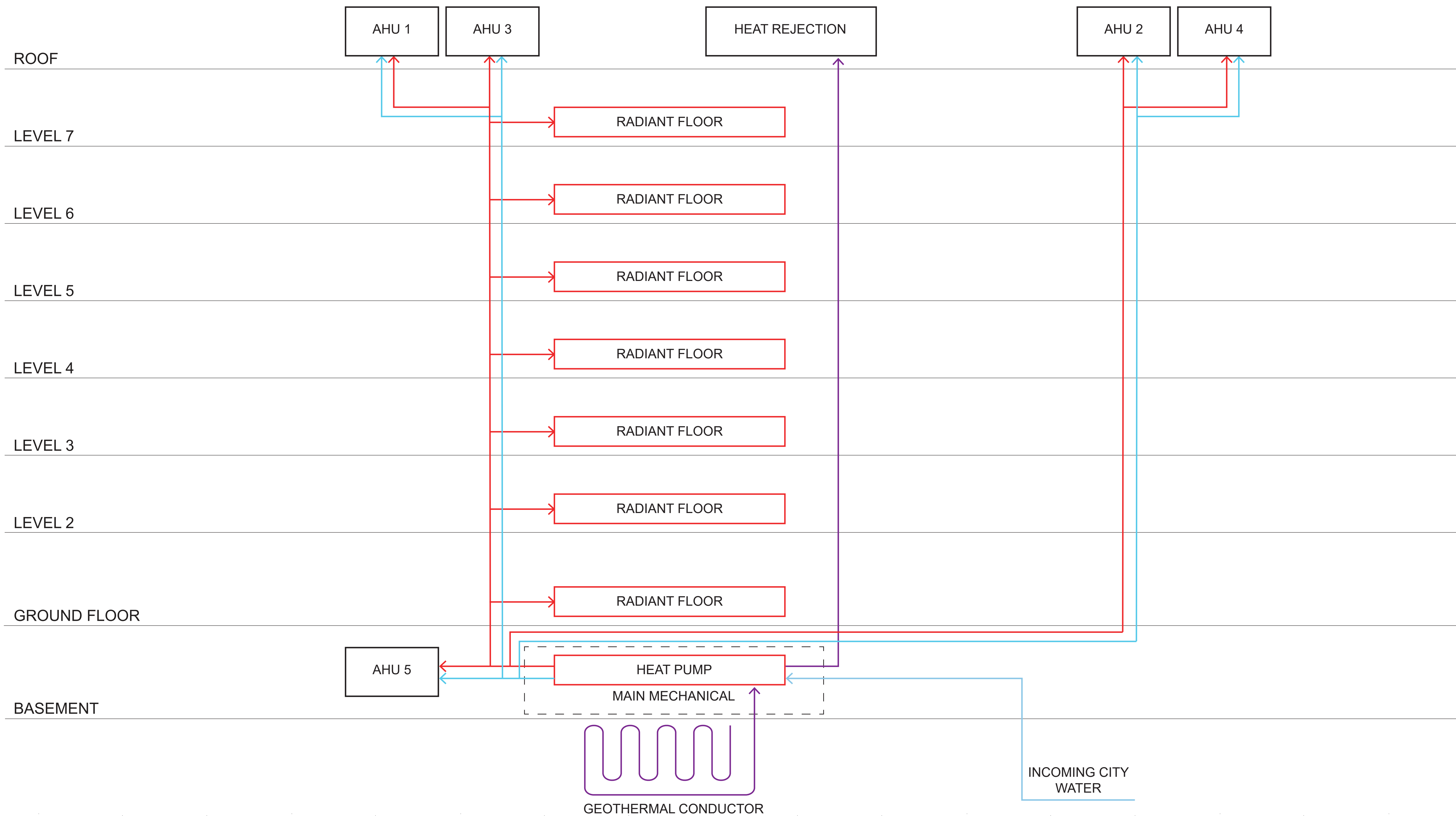
Mechanical Water

Project number

Date

Scale 1/8" = 1'-0"

A131



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Mechanical Air

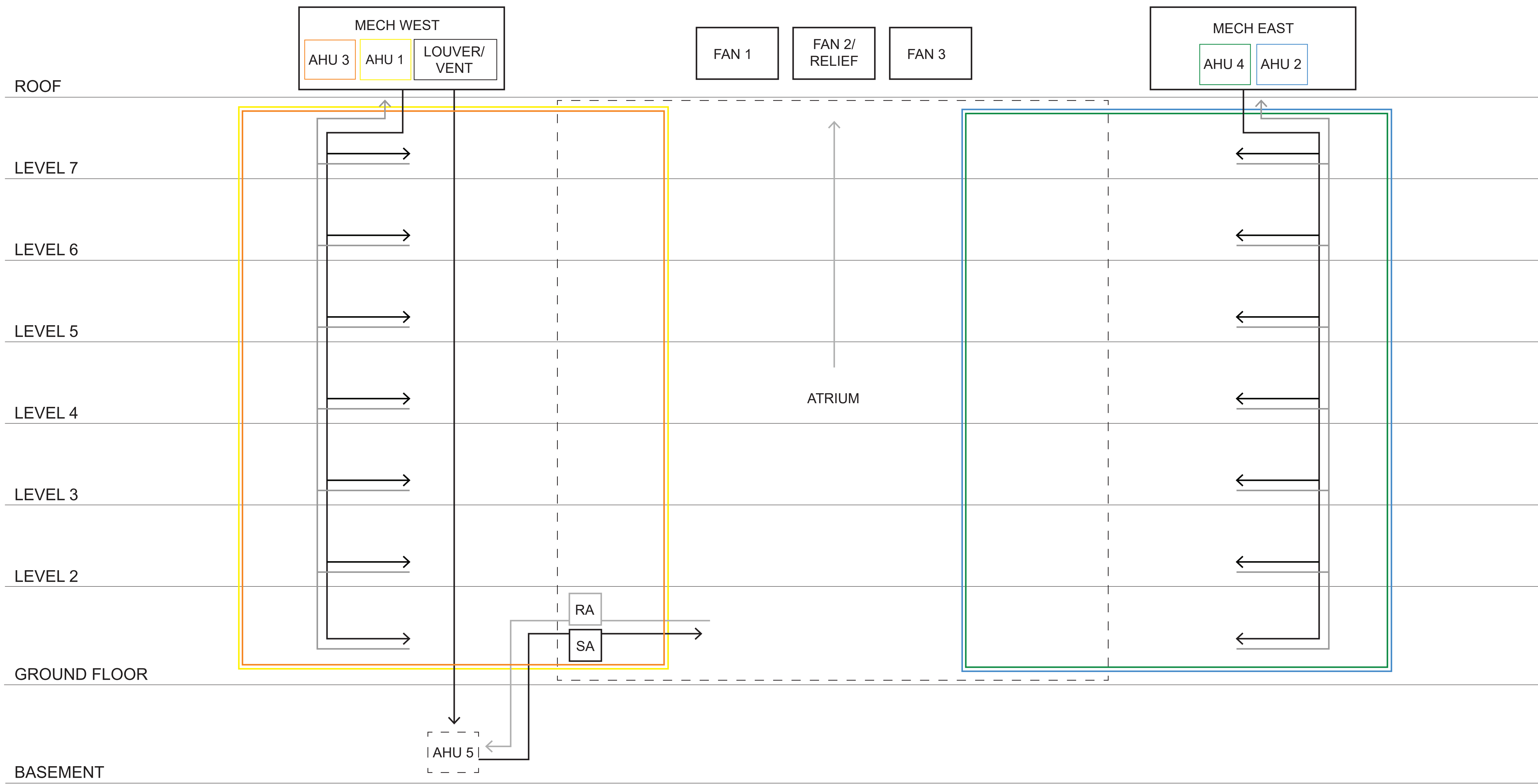
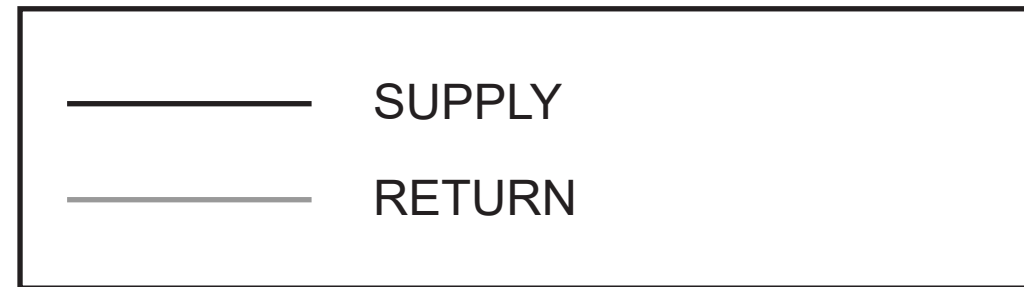
Project number

Date

Scale 1/8" = 1'-0"

A131

10/18/2021 12:24:13 AM



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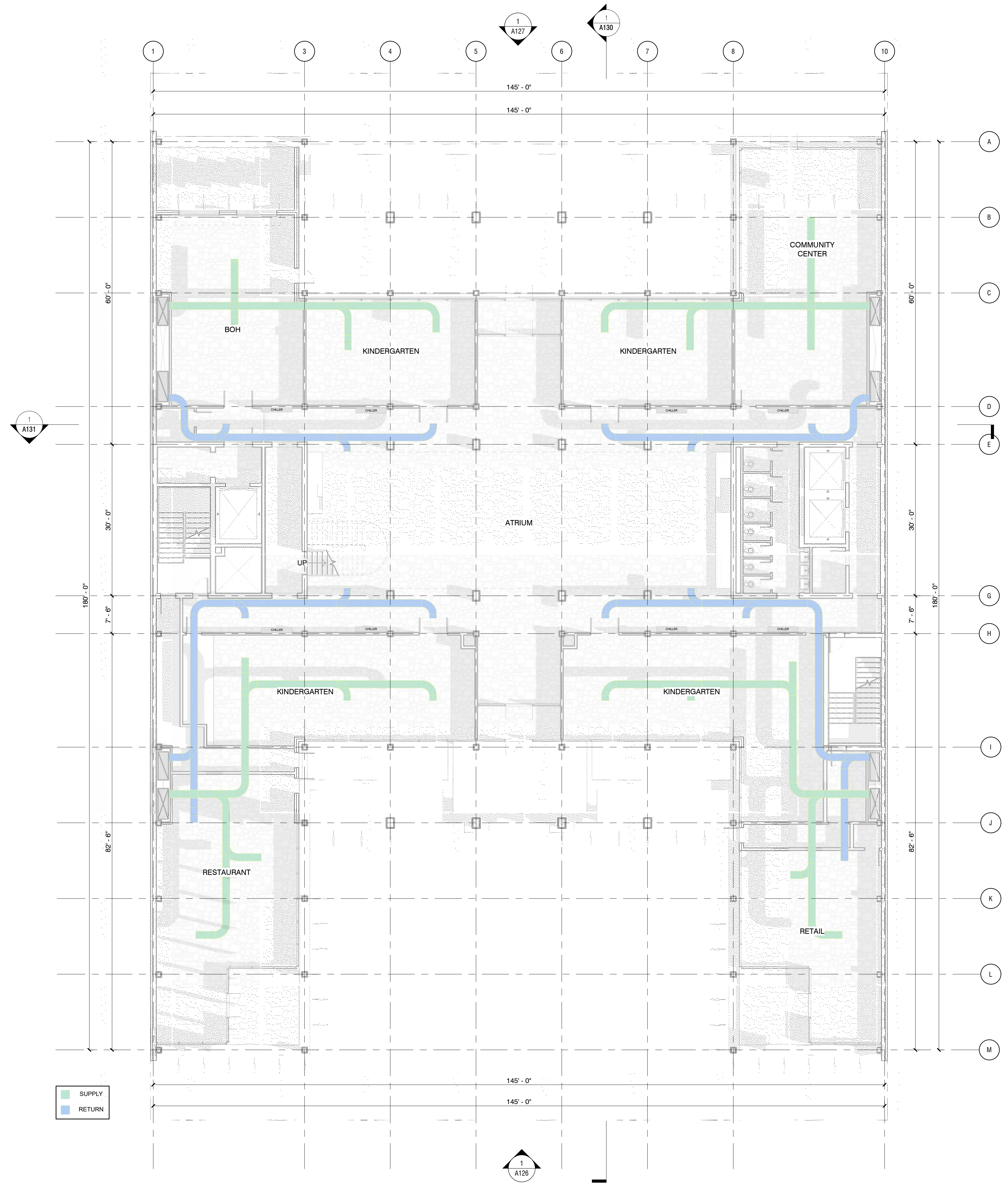
MEP Distribution Layout – Ground Floor

Project number 21001

Date Dec. 17, 2021

Scale 1/8" = 1'-0"

M101



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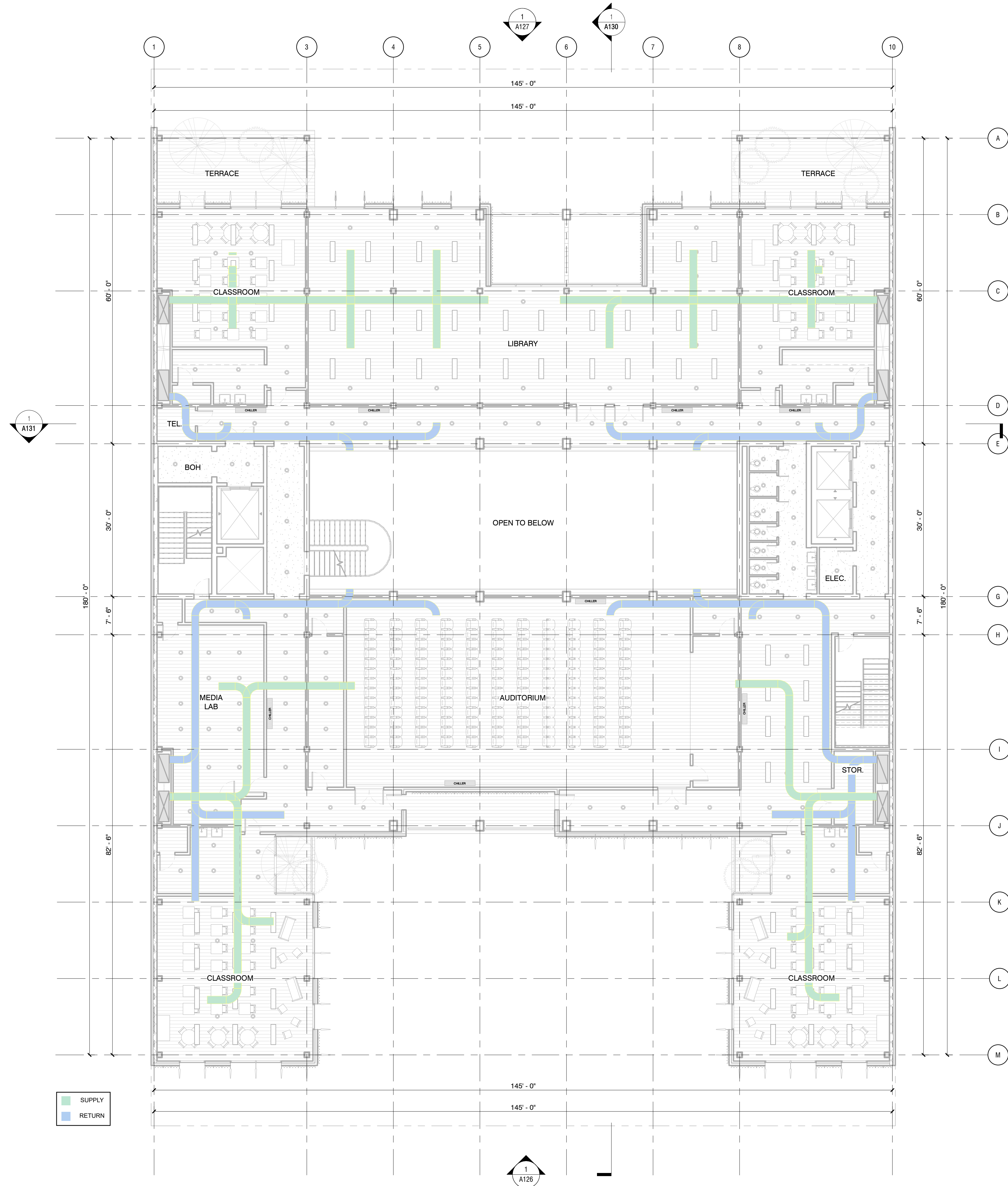
MEP Distribution Layout – Level 2

Project number 21001

Date Dec. 17, 2021

Scale Author

M102



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Khadija Tarver
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Aaron Smolar

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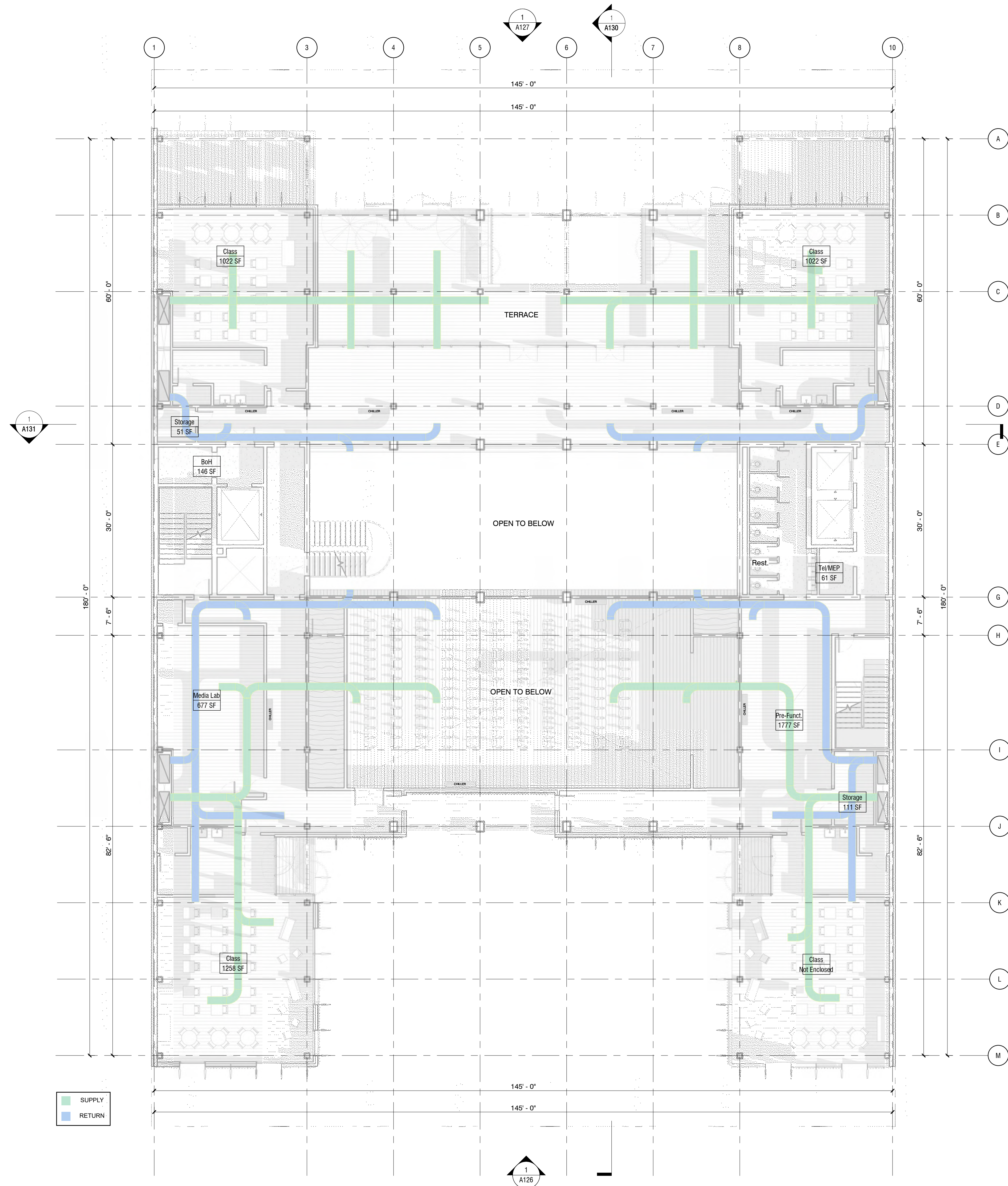
MEP Distribution Layout – Level 3

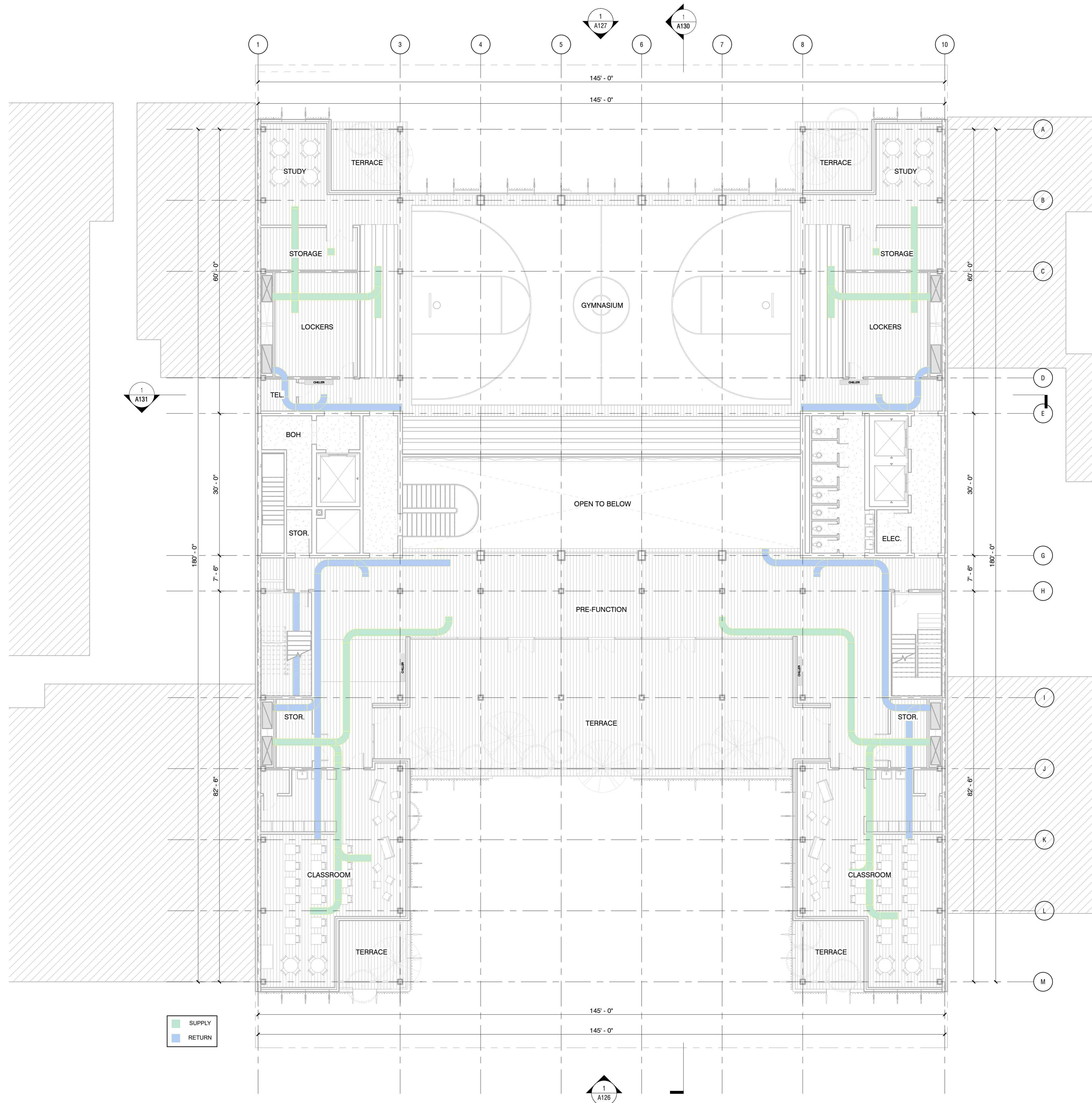
Project number 21001

Date Dec. 17, 2021

Scale Author

M103





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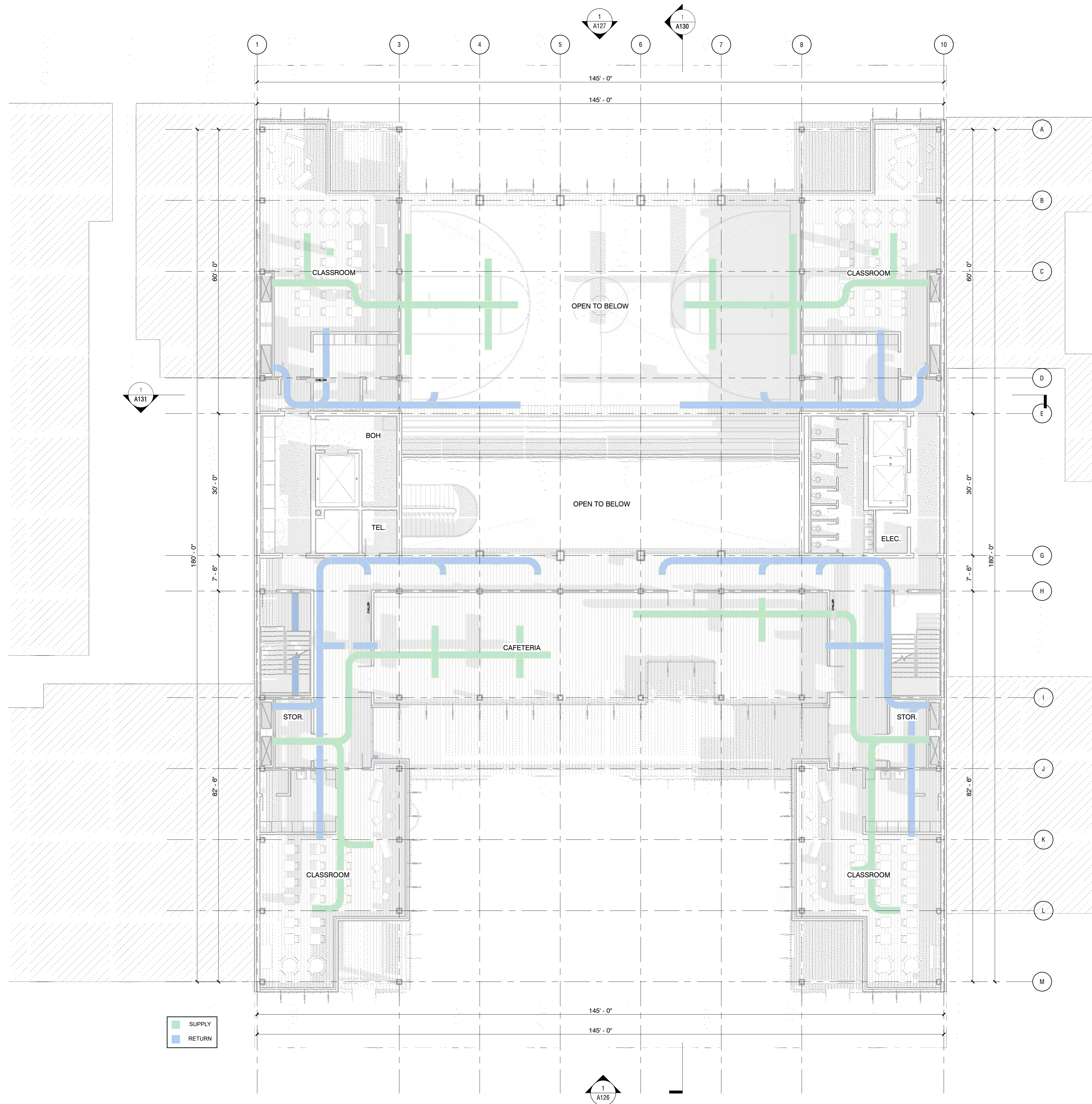
MEP Distribution Layout - Level 4

Project number 21001

Date Dec. 17, 2021

Scale Author

M104



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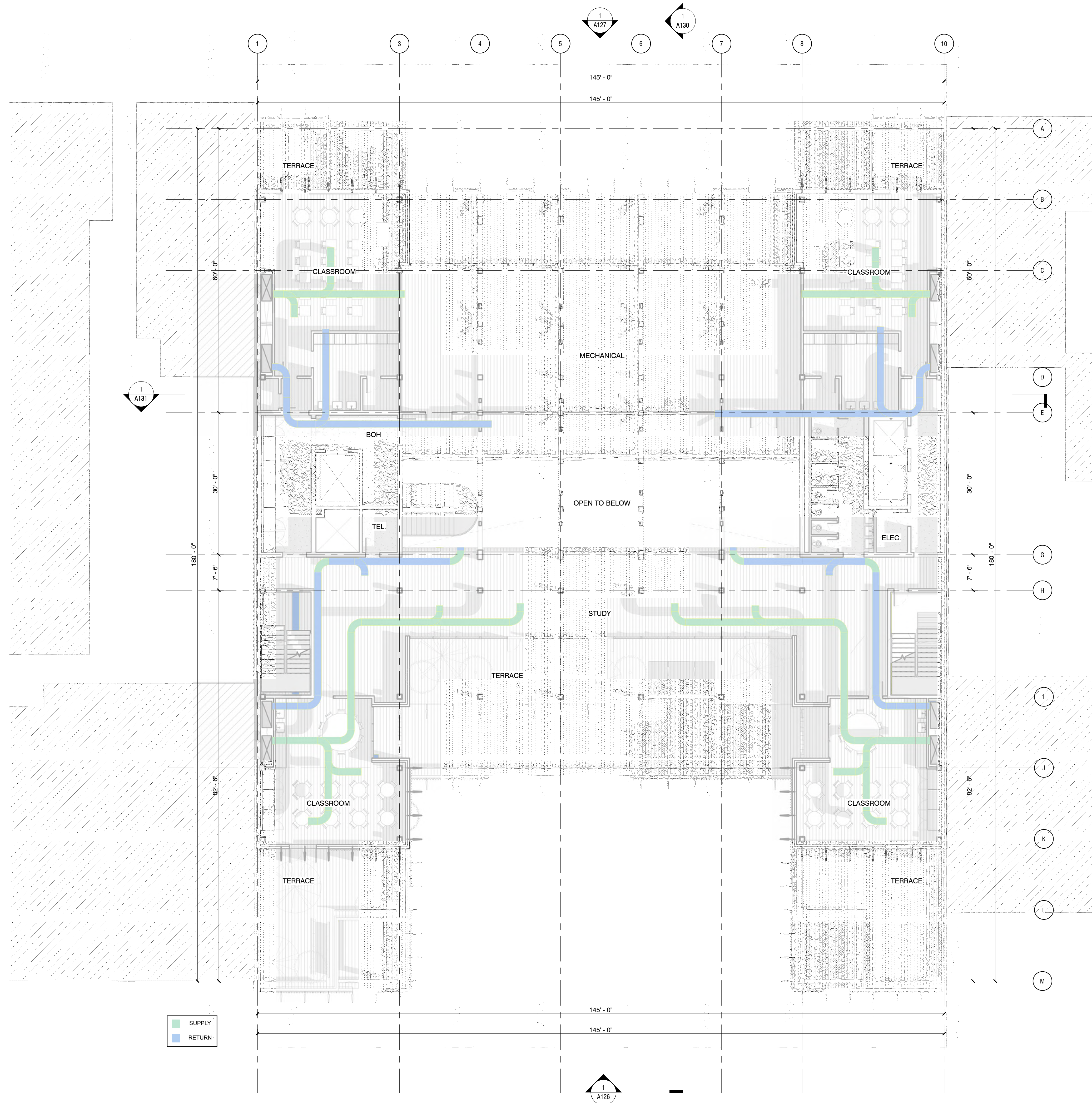
MEP Distribution Layout - Level 5

Project number 21001

Date Dec. 17, 2021

Scale Author

M105



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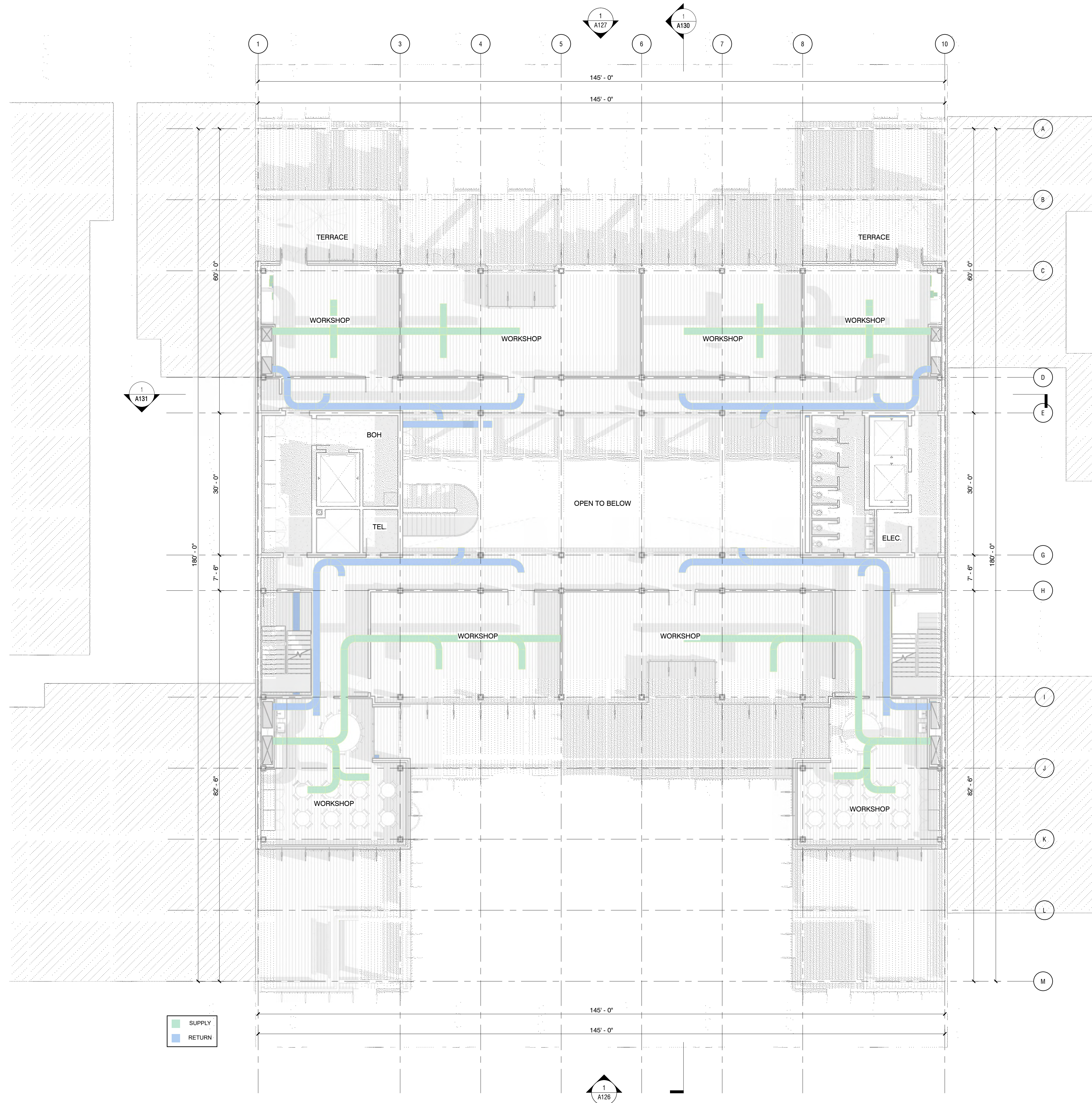
MEP Distribution Layout - Level 6

Project number 21001

Date Dec. 17, 2021

Scale Author

M106



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MEP Distribution Layout - Level 7

Project number 21001

Date Dec. 17, 2021

Scale Author

M107

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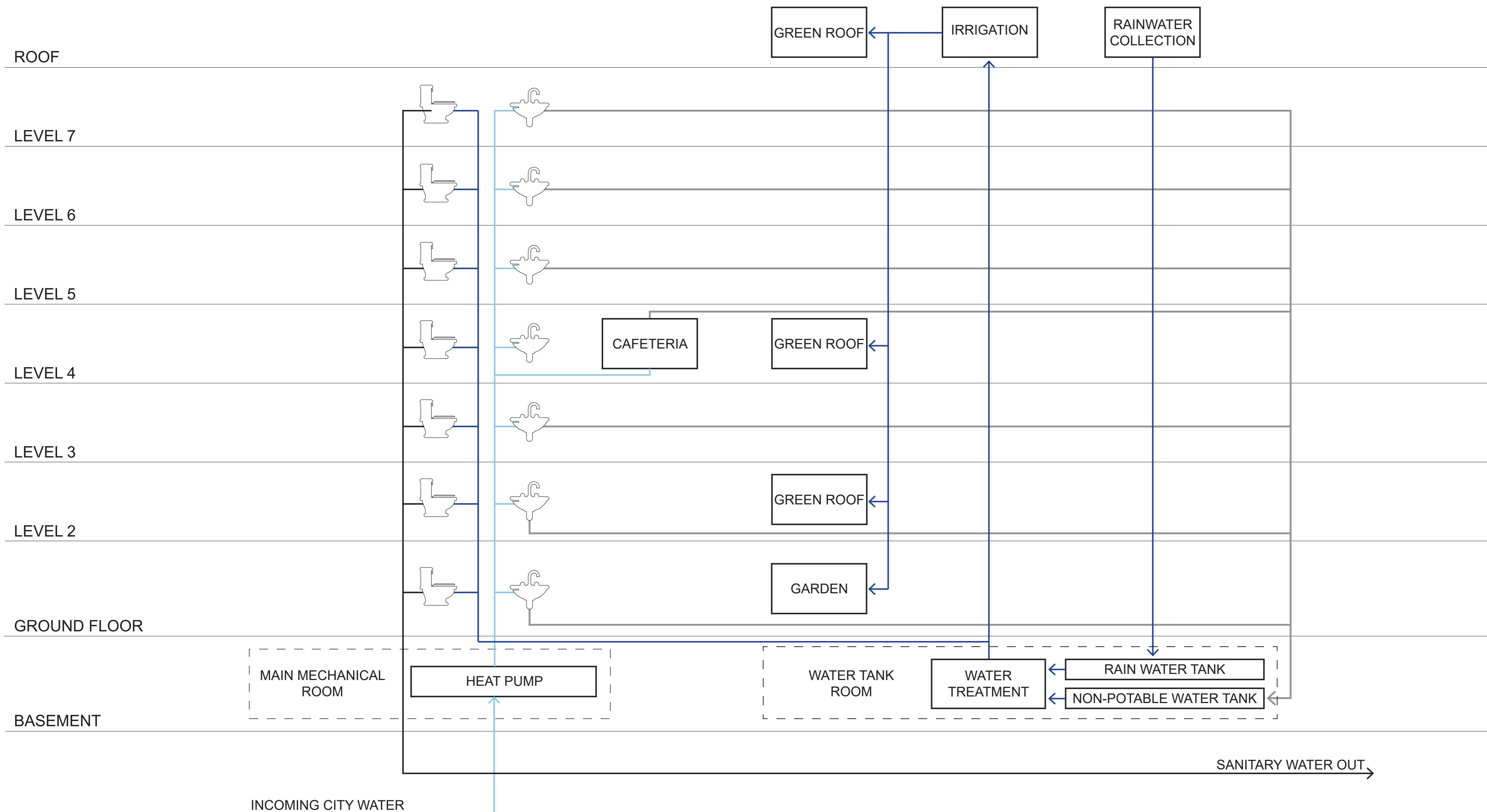
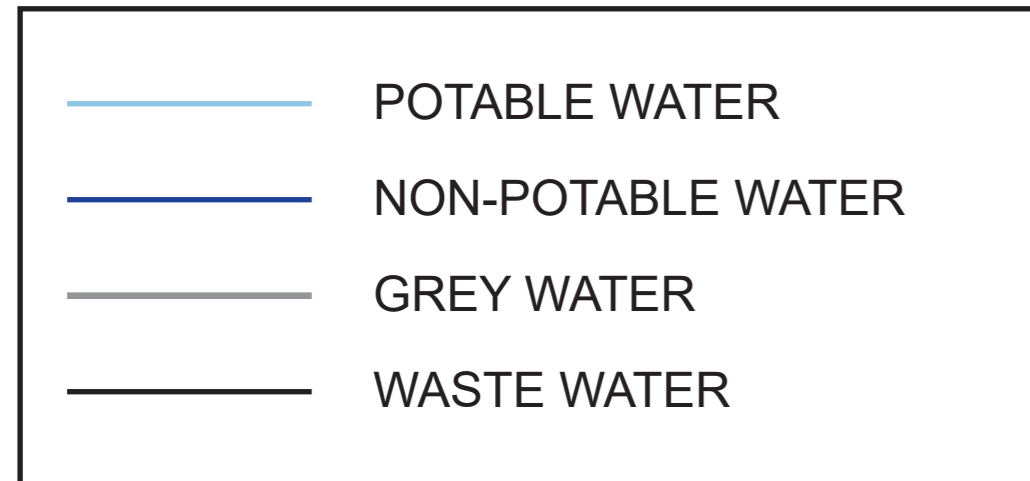
Plumbing Sanitary
and Storm Water
Drainage

Project number

Date

Scale 1/8" = 1'-0"

A131



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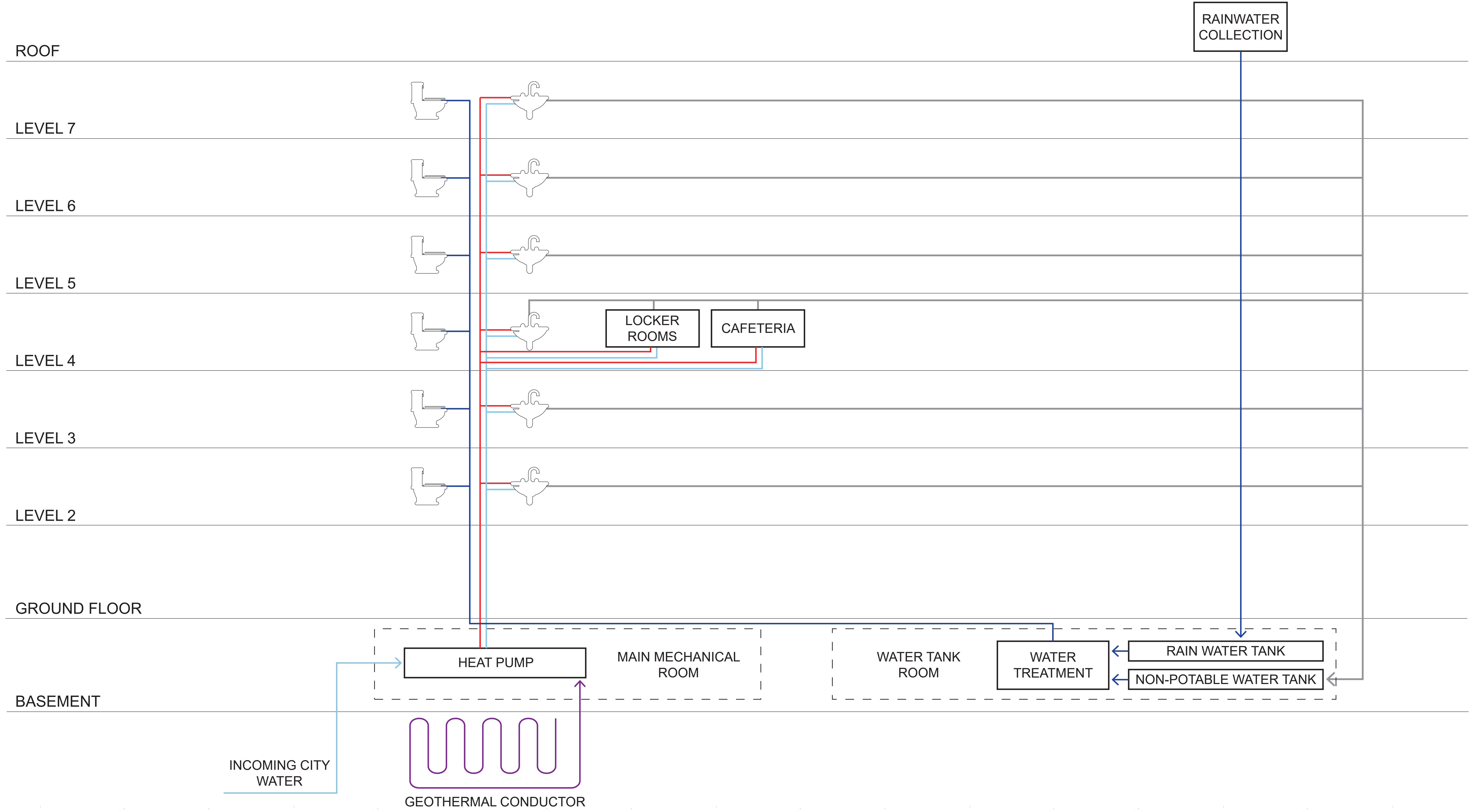
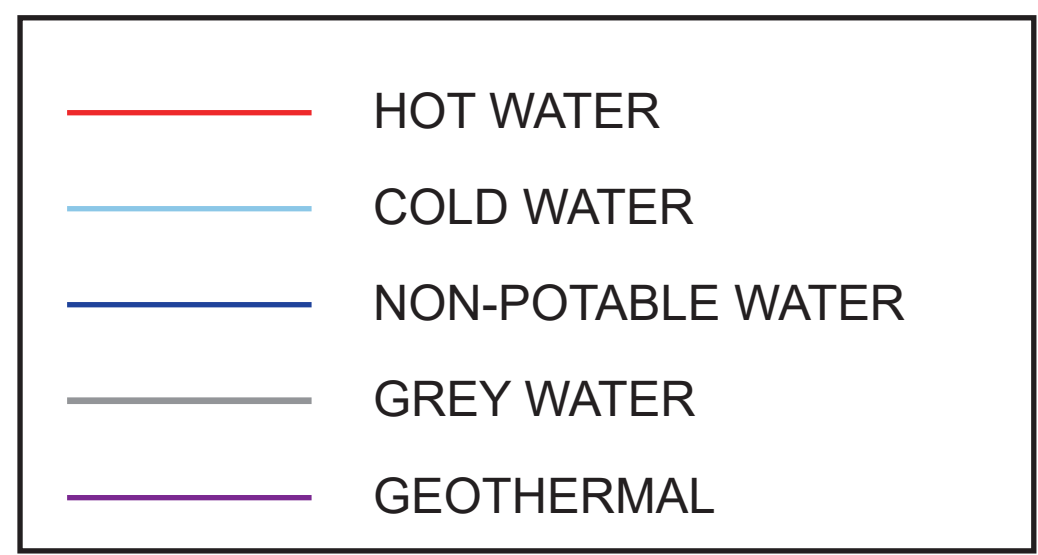
Plumbing Hot and Cold Water

Project number

Date

Scale 1/8" = 1'-0"

A131



● UPRIGHT FIRE SPRINKLER HEAD
○ WATER SOURCE
— BRANCH PIPES
 DRY PIPE FIRE SPRINKLER ZONE



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EMERGENCY FIRE PROTECTION

Project number	21001
Date	Dec. 17, 2021
Scale	3/32" = 1'-0"

A101

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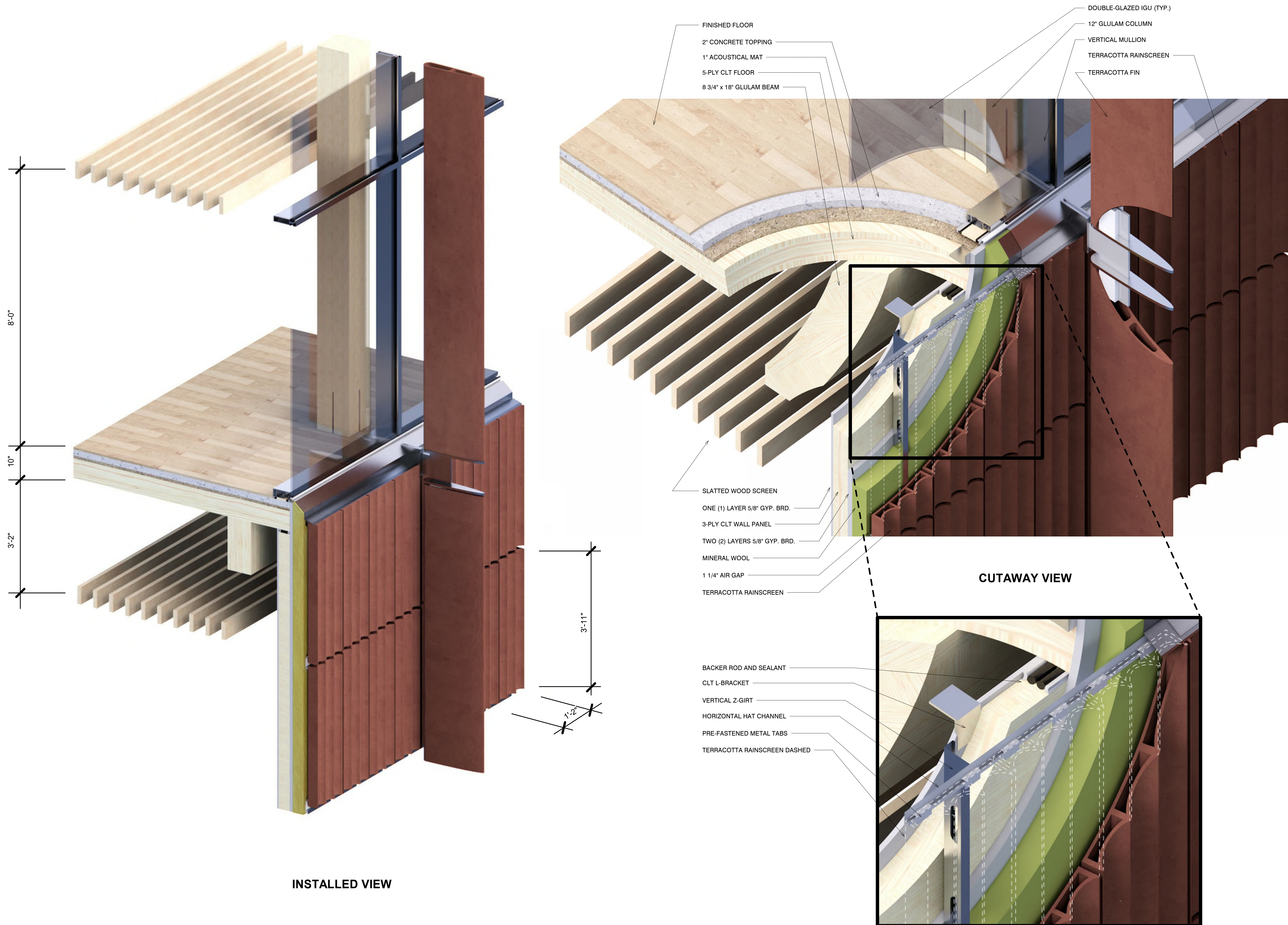
Facade Visualization

Project number 21001

Date Dec. 17, 2021

Scale NTS

F100



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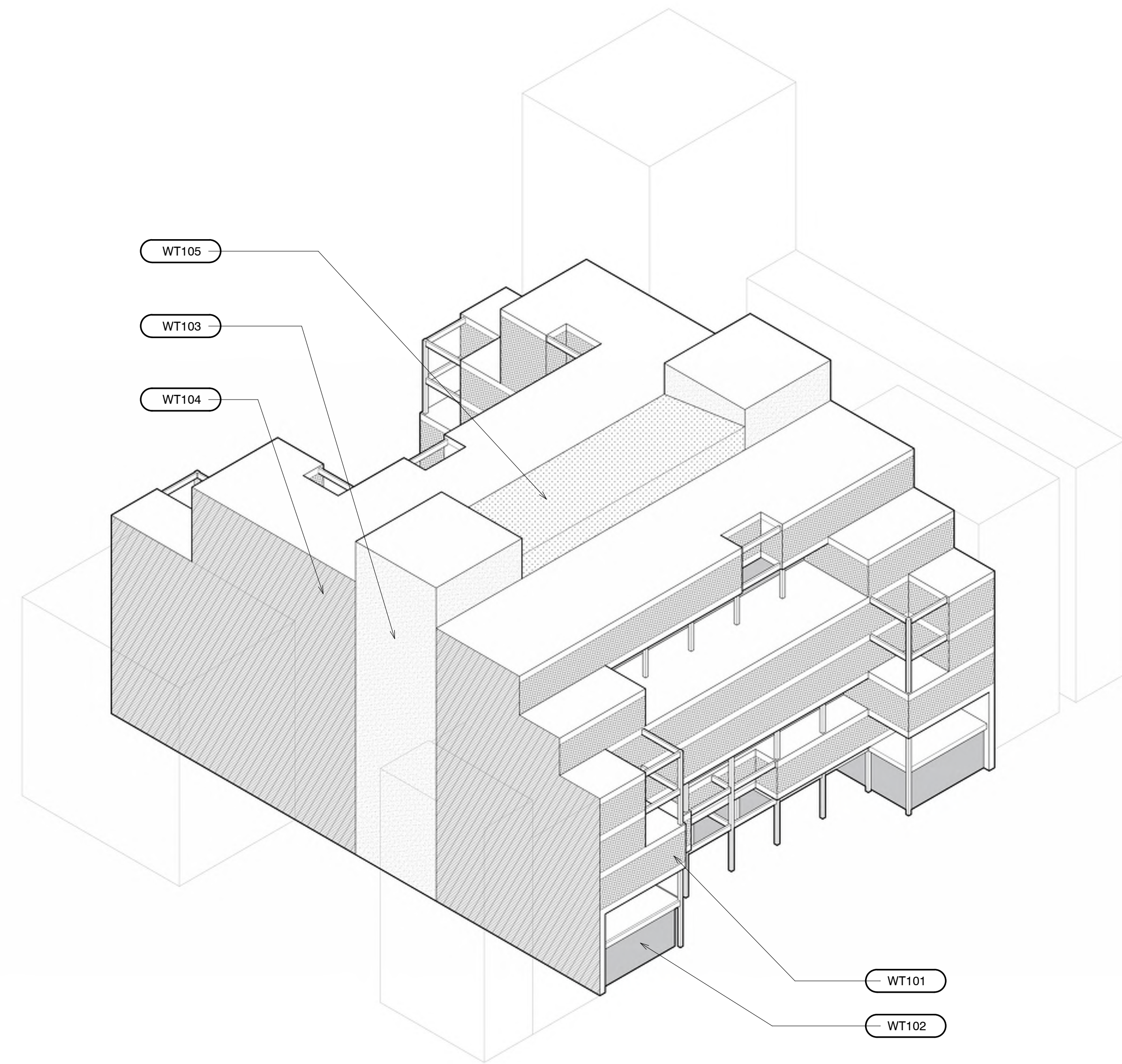
Facade 3D
Diagrams

Project number 21001

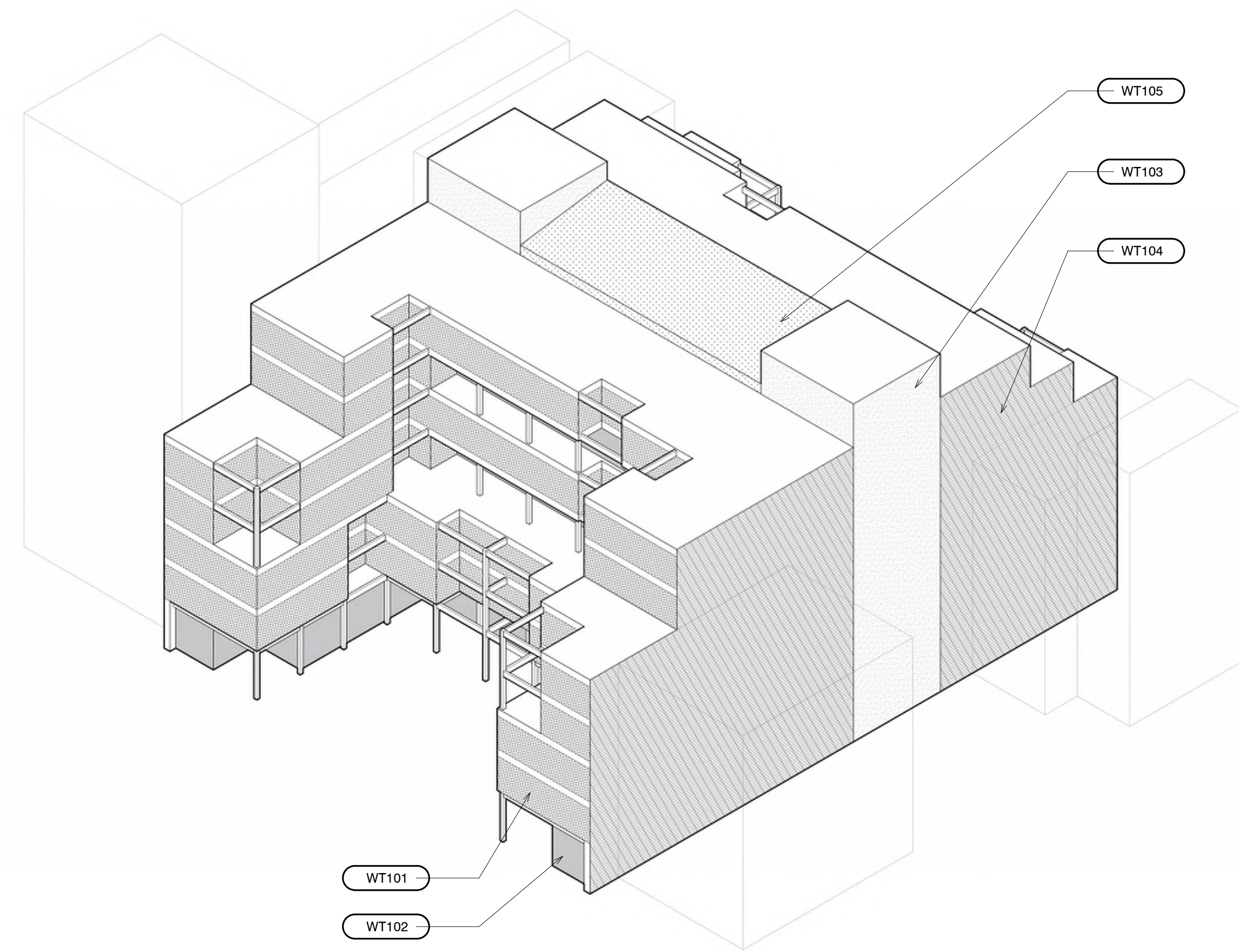
Date Dec. 17, 2021

Scale Author

F111



AXONOMETRIC - NORTHEAST VIEW

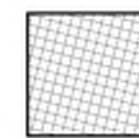


AXONOMETRIC - SOUTHEAST VIEW

WT104 - 12" CONCRETE SHEAR WALL



WT101 - SOLID/GLAZED



WT103 - 8" CMU WALL



WT102 - STOREFRONT



WT105 - GLASS SKYLIGHT



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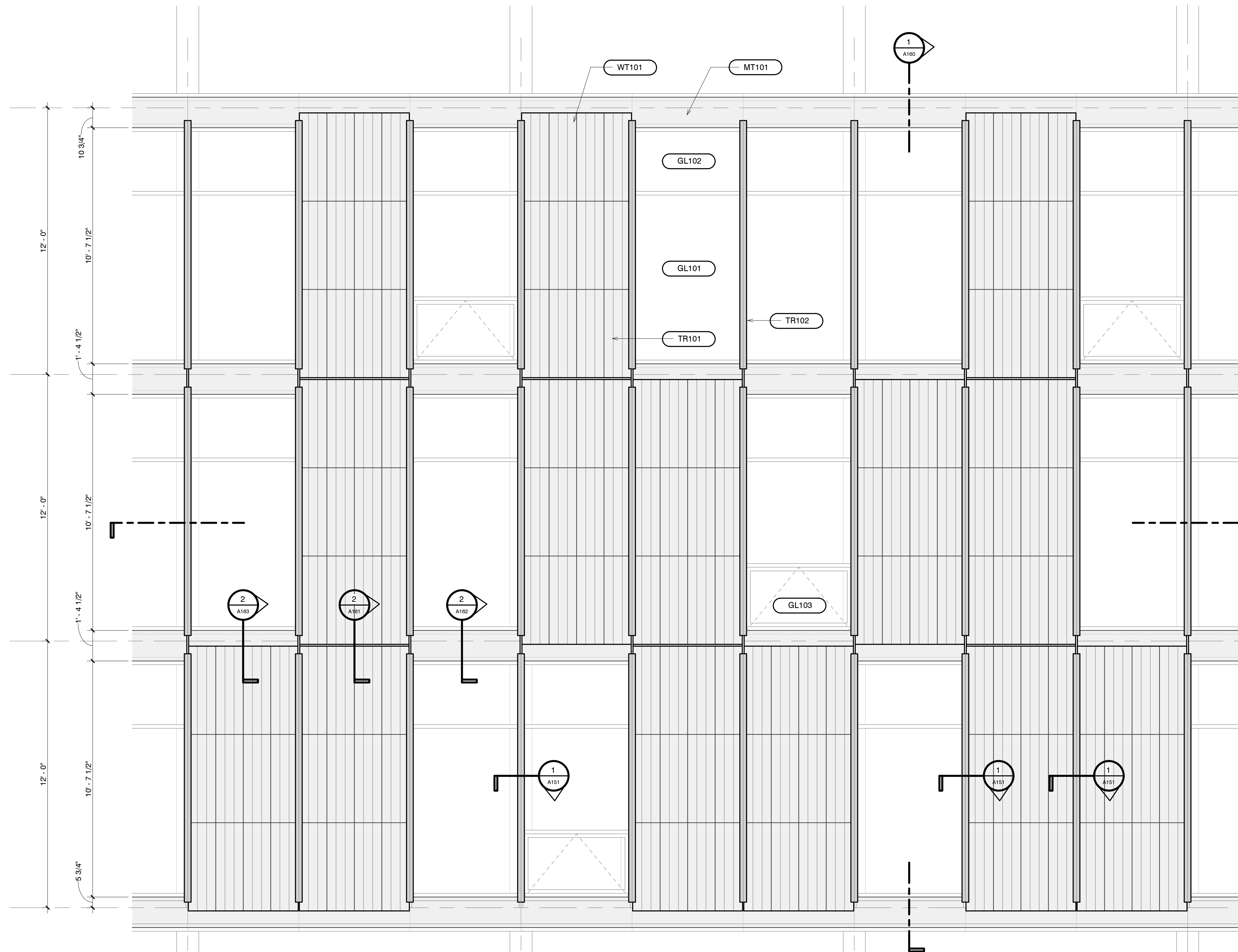
Solid and Glazed
Roadmap

Project number 21001

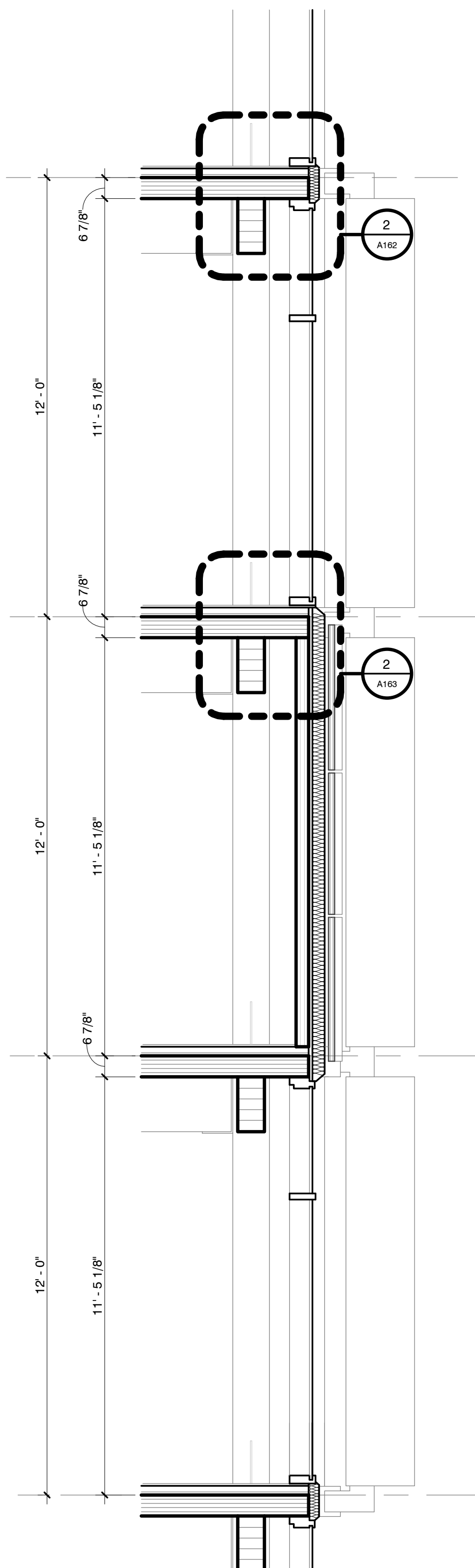
Date Dec. 17, 2021

Scale 3/8" = 1'-0"

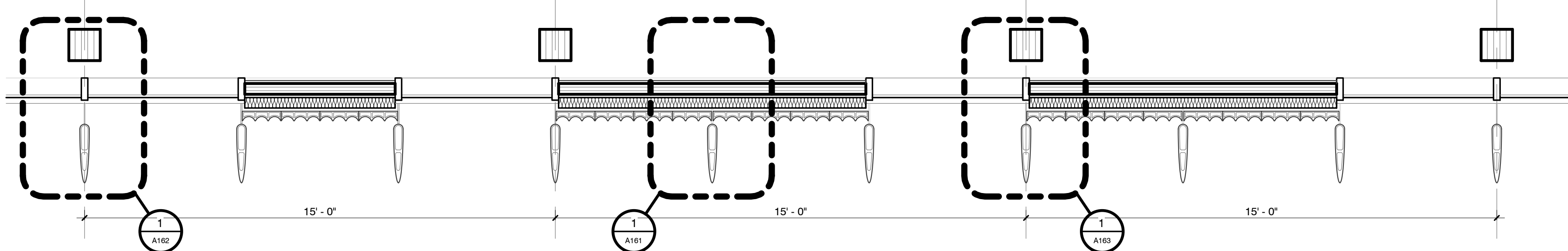
F200



TYP. SYSTEM ELEVATION 3
SCALE: 3/8" = 1'-0"



TYP. SYSTEM WALL SECTION 1
SCALE: 3/8" = 1'-0"



TYP. SYSTEM PLAN 2
SCALE: 3/8" = 1'-0"

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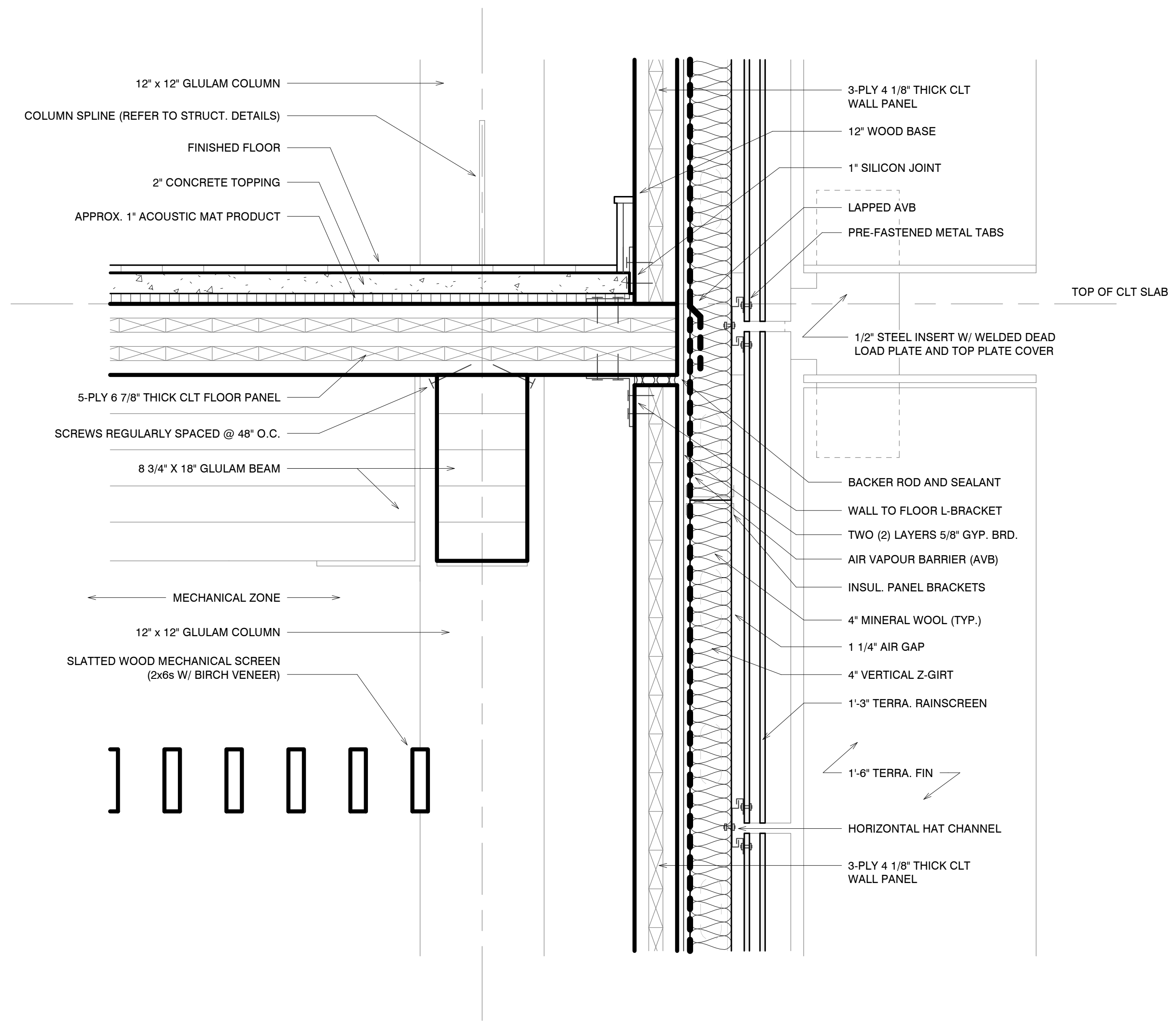
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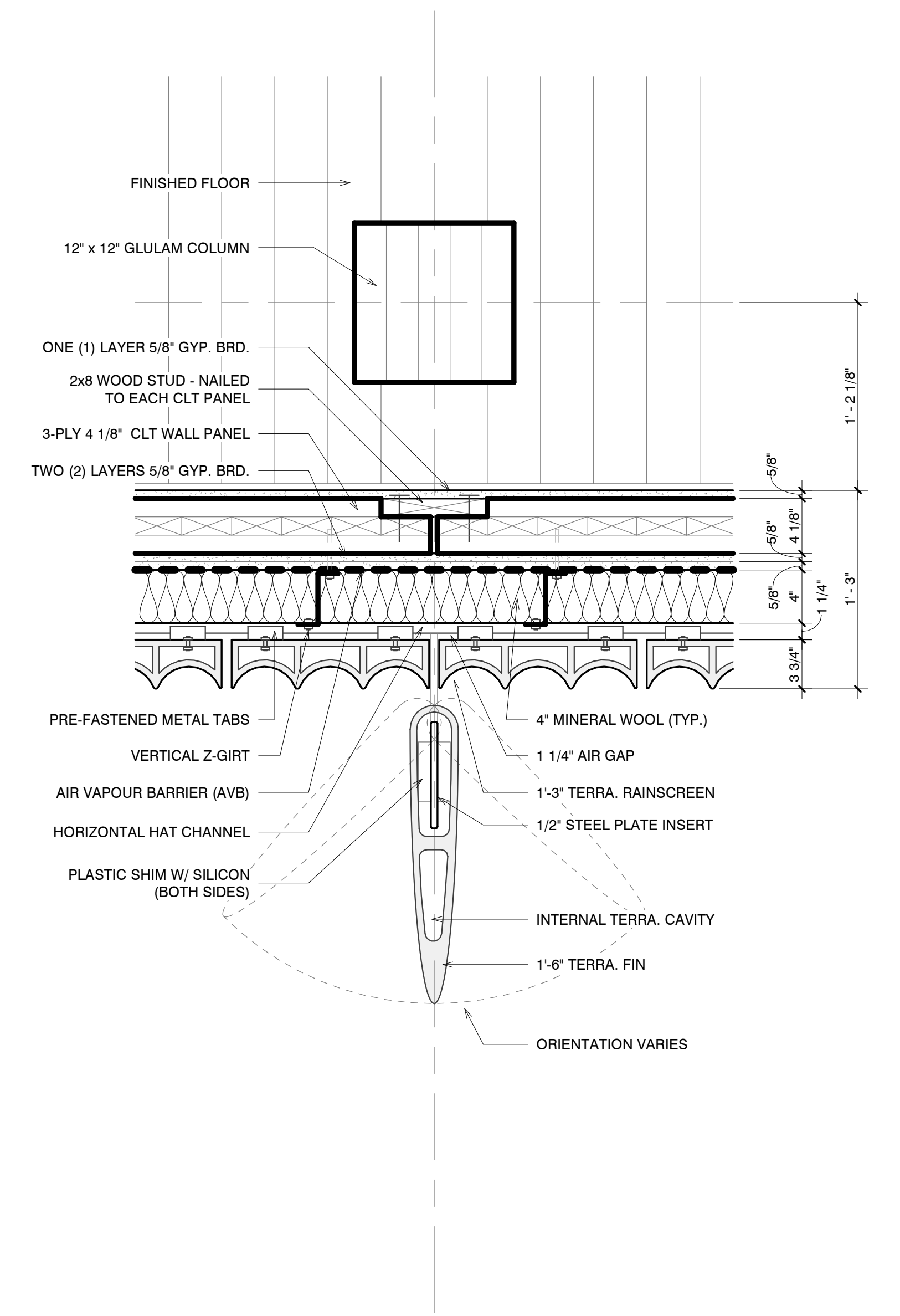
Solid Panel Details

Project number	21001
Date	Dec. 17, 2021
Scale	1 1/2" = 1'-0"

F210



TYPICAL SOLID PANEL DETAIL - SECTION 2
SCALE: 1 1/2" = 1'-0"



TYPICAL SOLID PANEL DETAIL - PLAN 1
SCALE: 1 1/2" = 1'-0"

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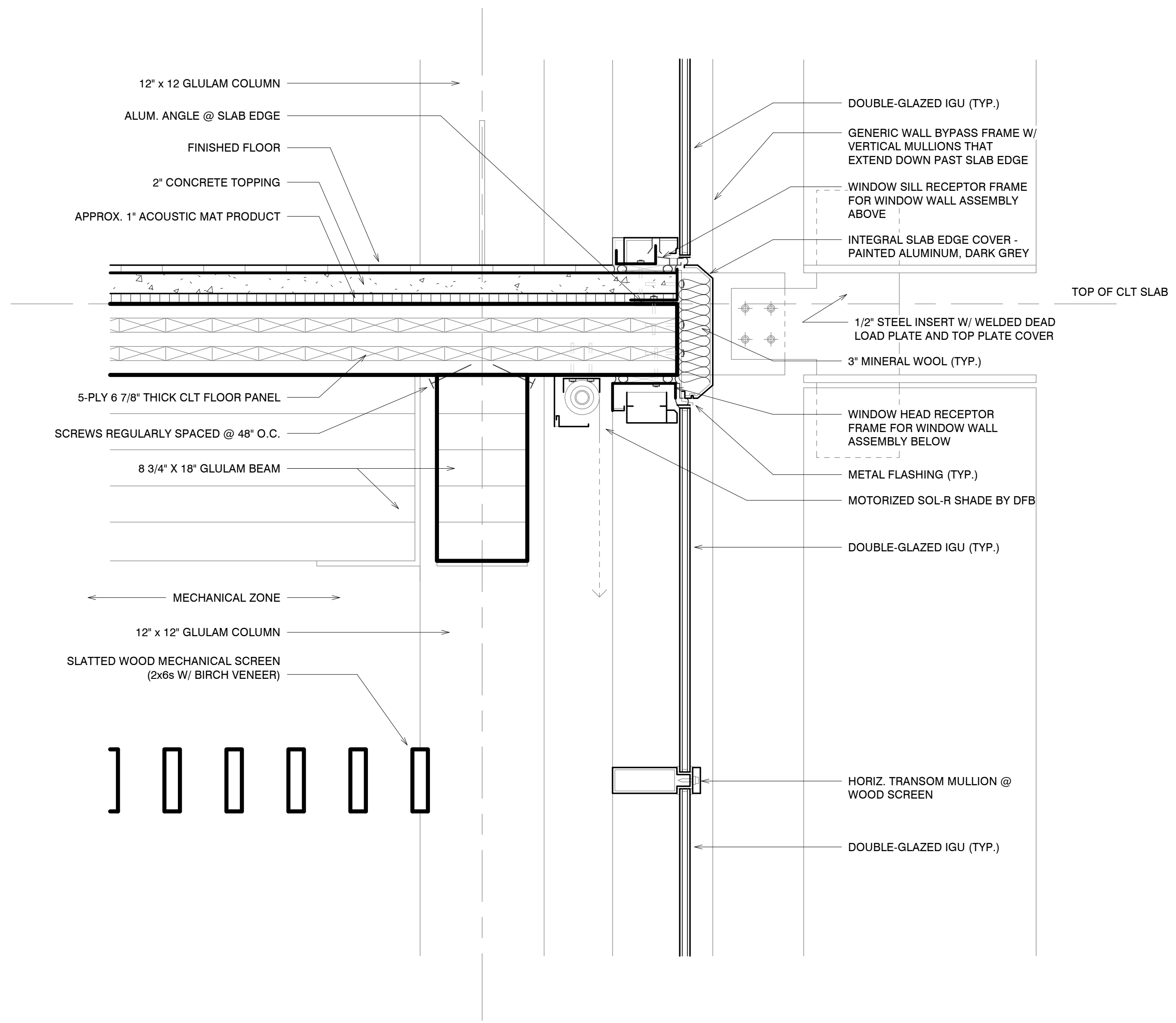
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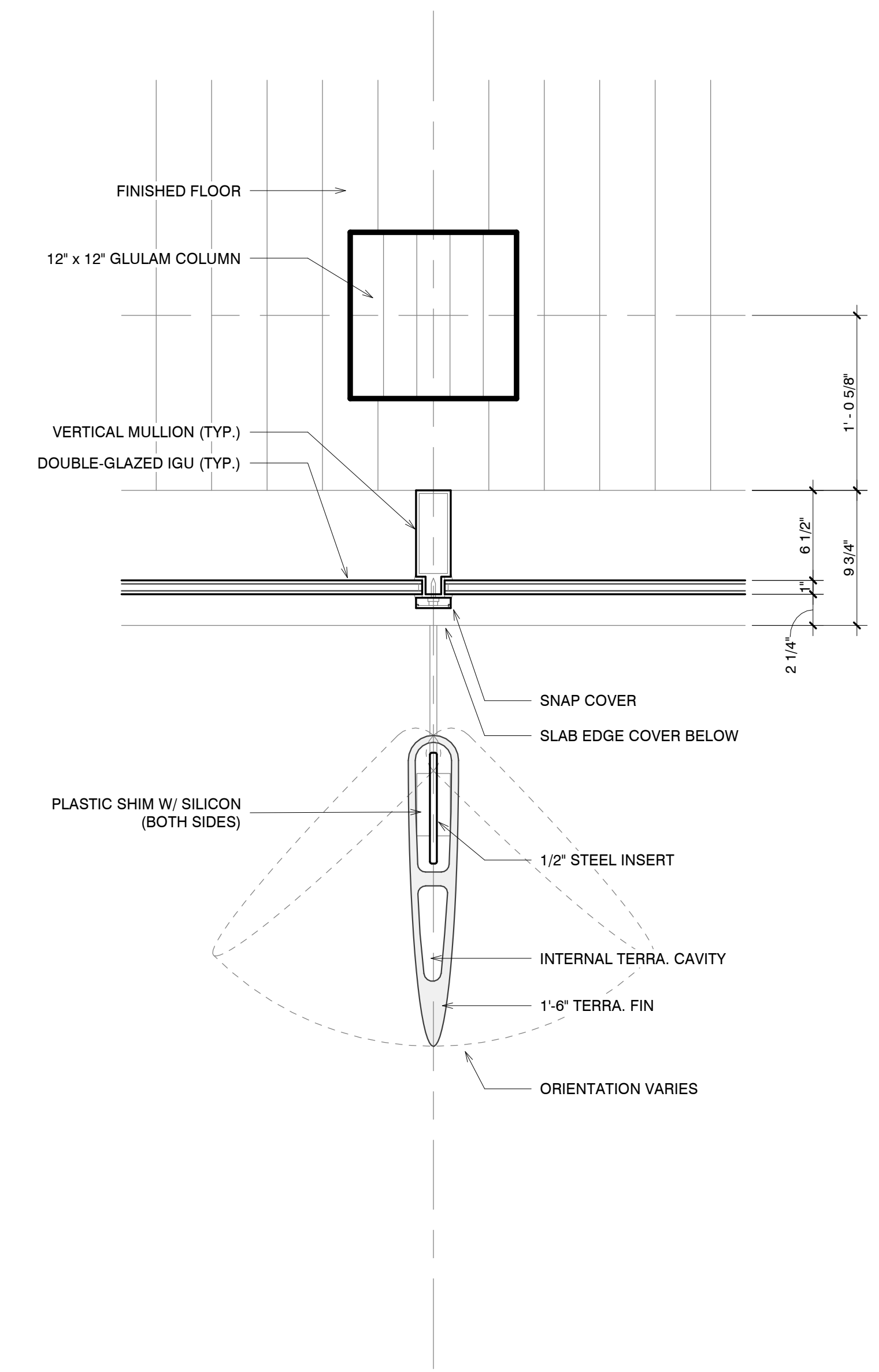
Glazed Panel Details

Project number	21001
Date	Dec. 17, 2021
Scale	1 1/2" = 1'-0"

F211



TYPICAL GLAZED PANEL DETAIL - SECTION 2
SCALE: 1 1/2" = 1'-0"



TYPICAL GLAZED PANEL DETAIL - PLAN 1
SCALE: 1 1/2" = 1'-0"

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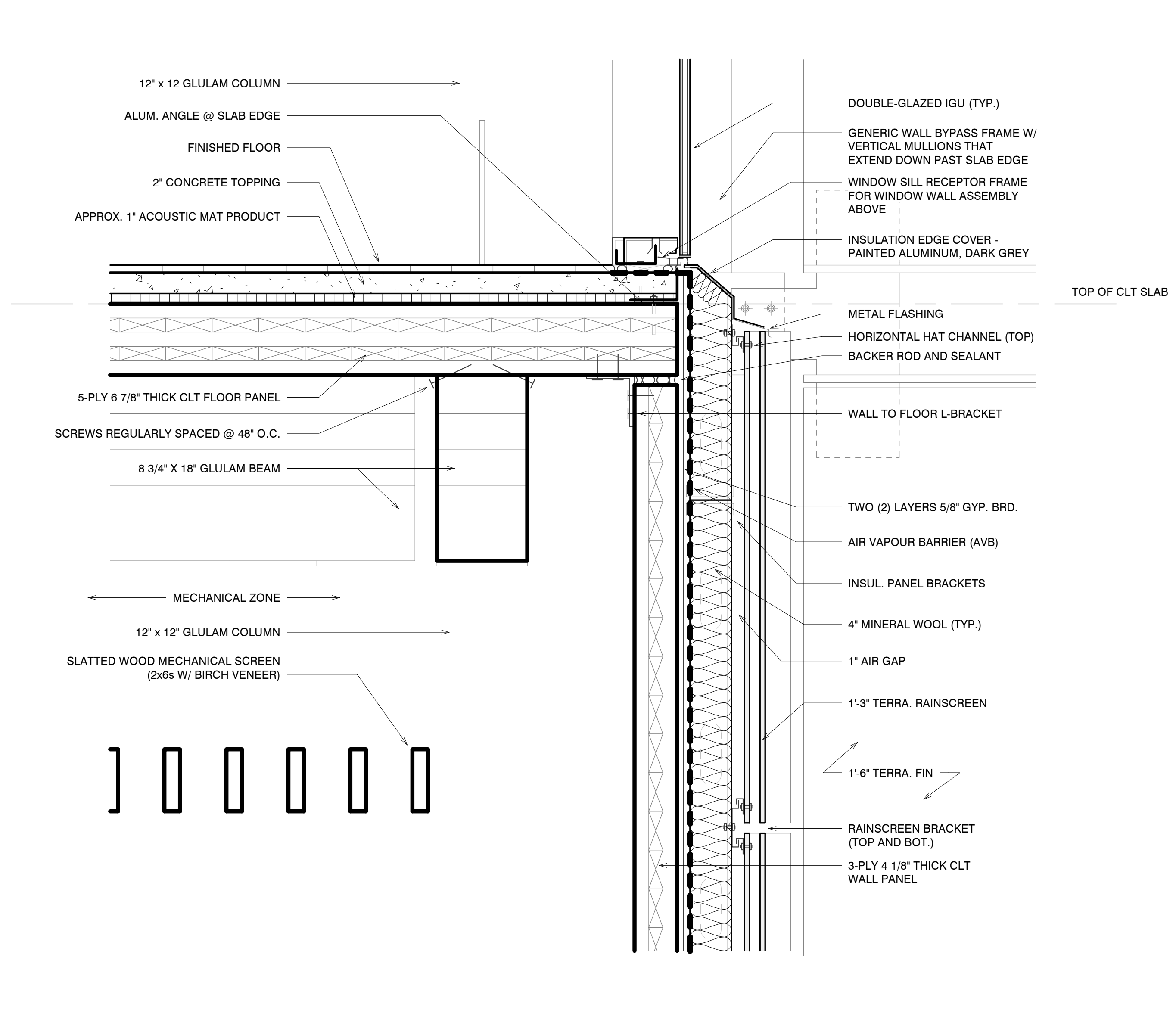
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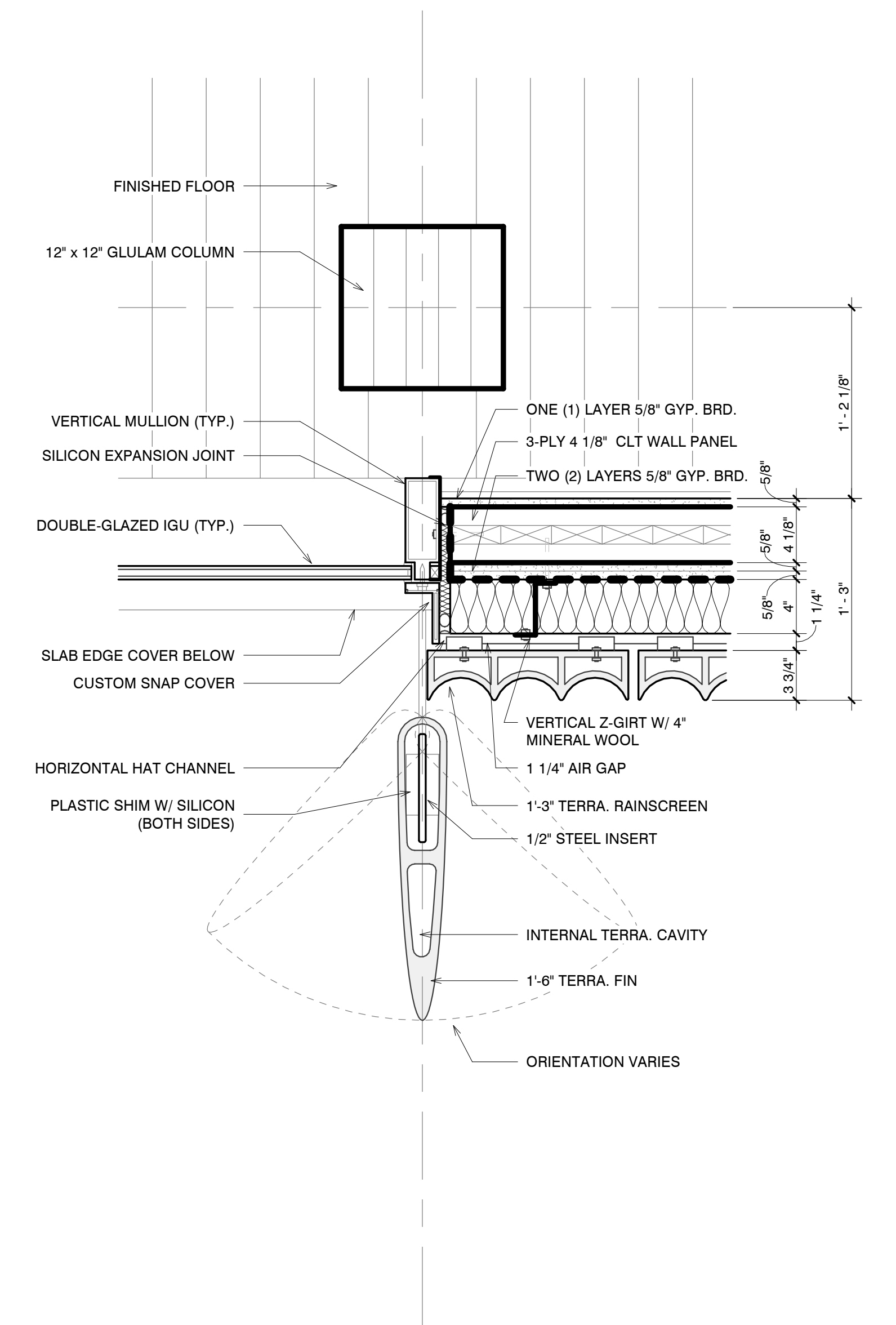
Interface Details

Project number	21001
Date	Dec. 17, 2021
Scale	1 1/2" = 1'-0"

F212



TYPICAL INTERFACE DETAIL - SECTION 2
SCALE: 1 1/2" = 1'-0"



TYPICAL INTERFACE DETAIL - PLAN 1
SCALE: 1 1/2" = 1'-0"

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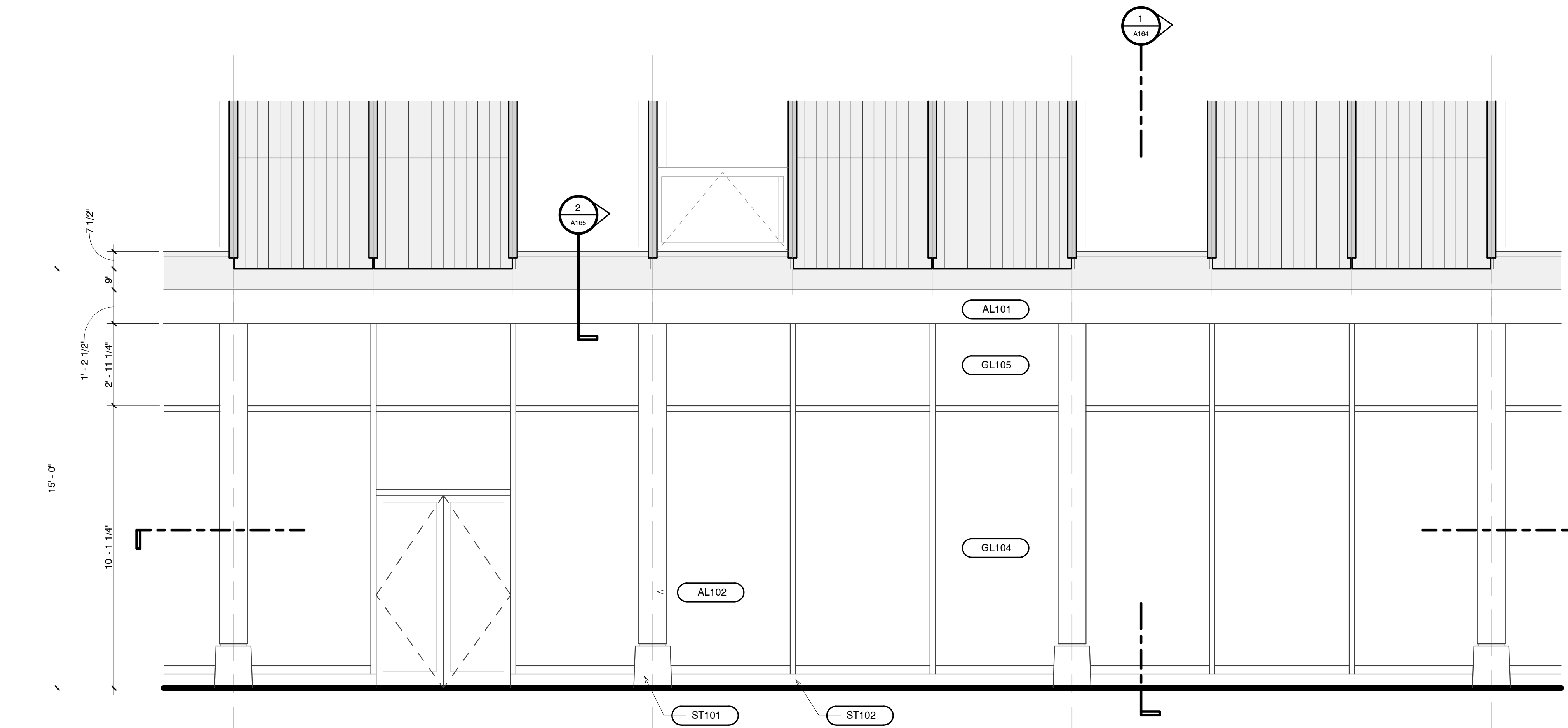
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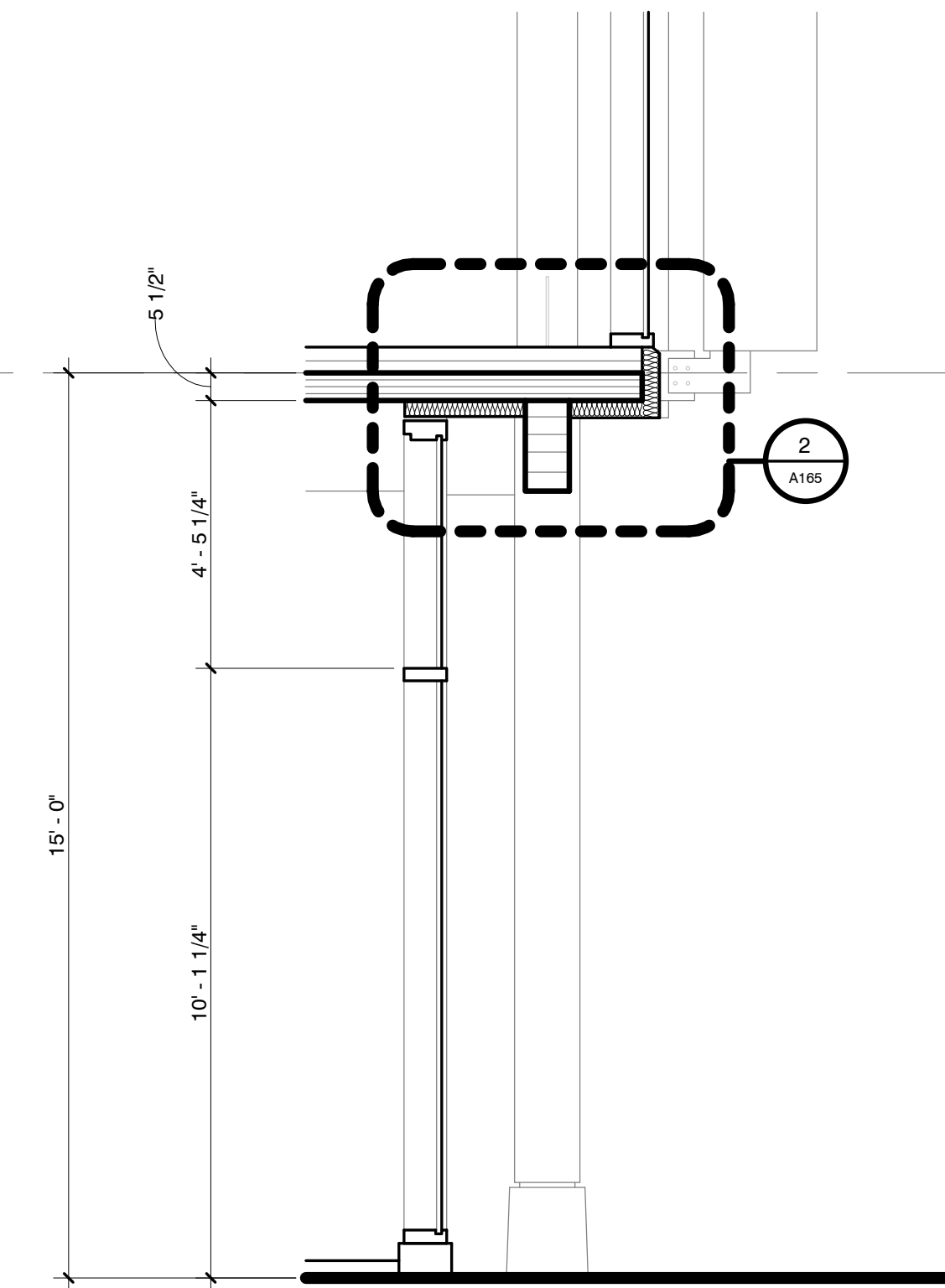
Storefront
Roadmap

Project number	21001
Date	Dec. 17, 2021
Scale	3/8" = 1'-0"

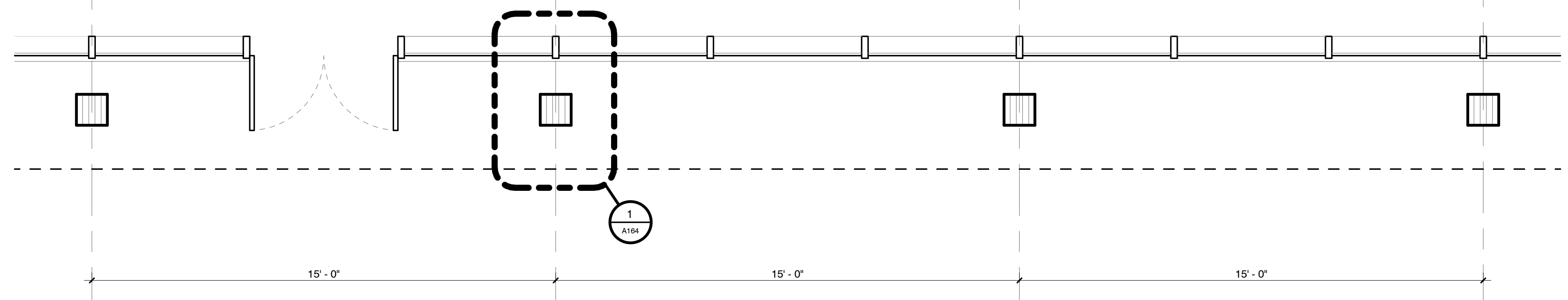
F300



TYP. SYSTEM ELEVATION 3
SCALE: 3/8" = 1'-0"



TYP. SYSTEM WALL SECTION 1
SCALE: 3/8" = 1'-0"



TYP. SYSTEM PLAN 2
SCALE: 3/8" = 1'-0"

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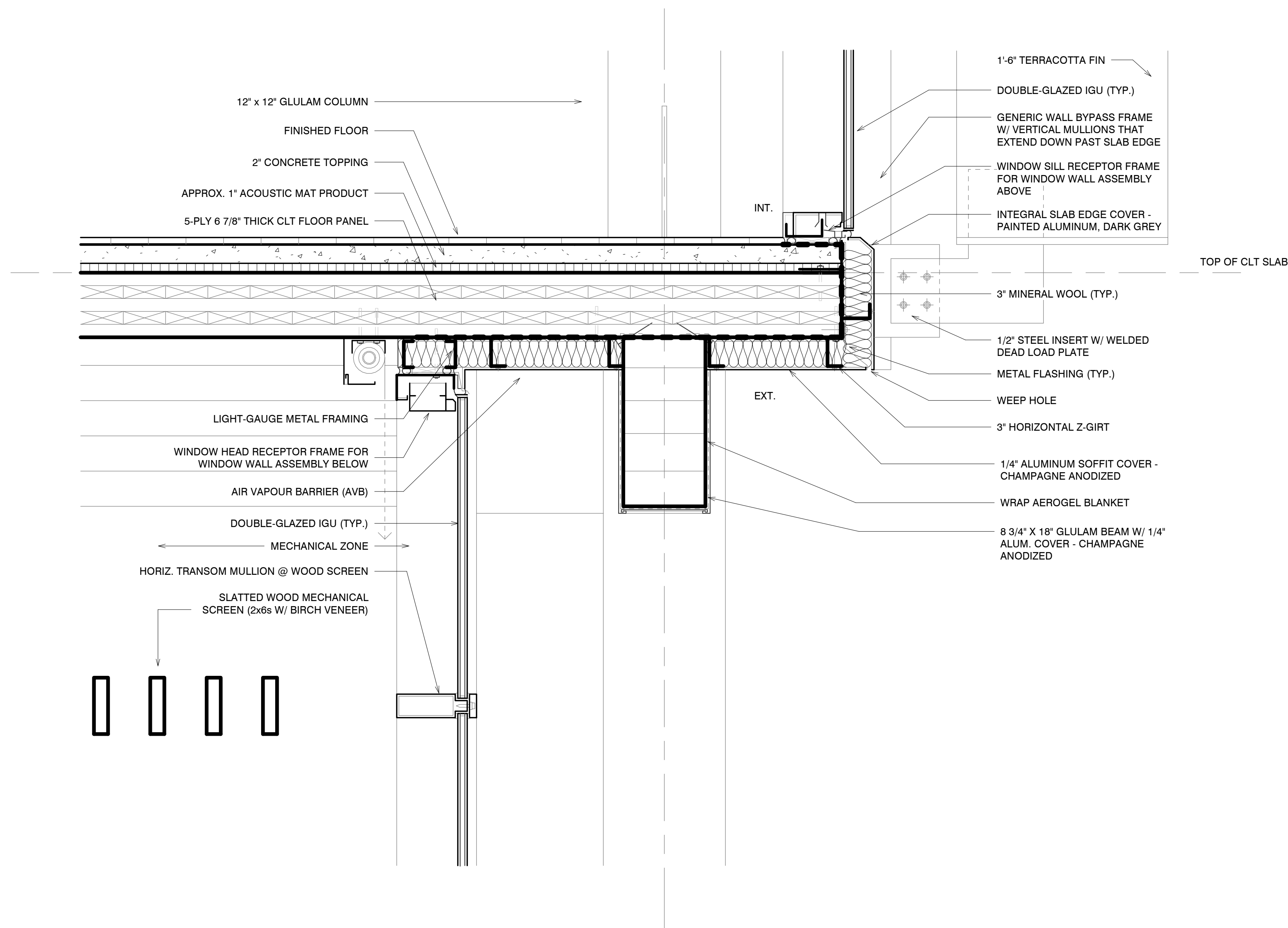
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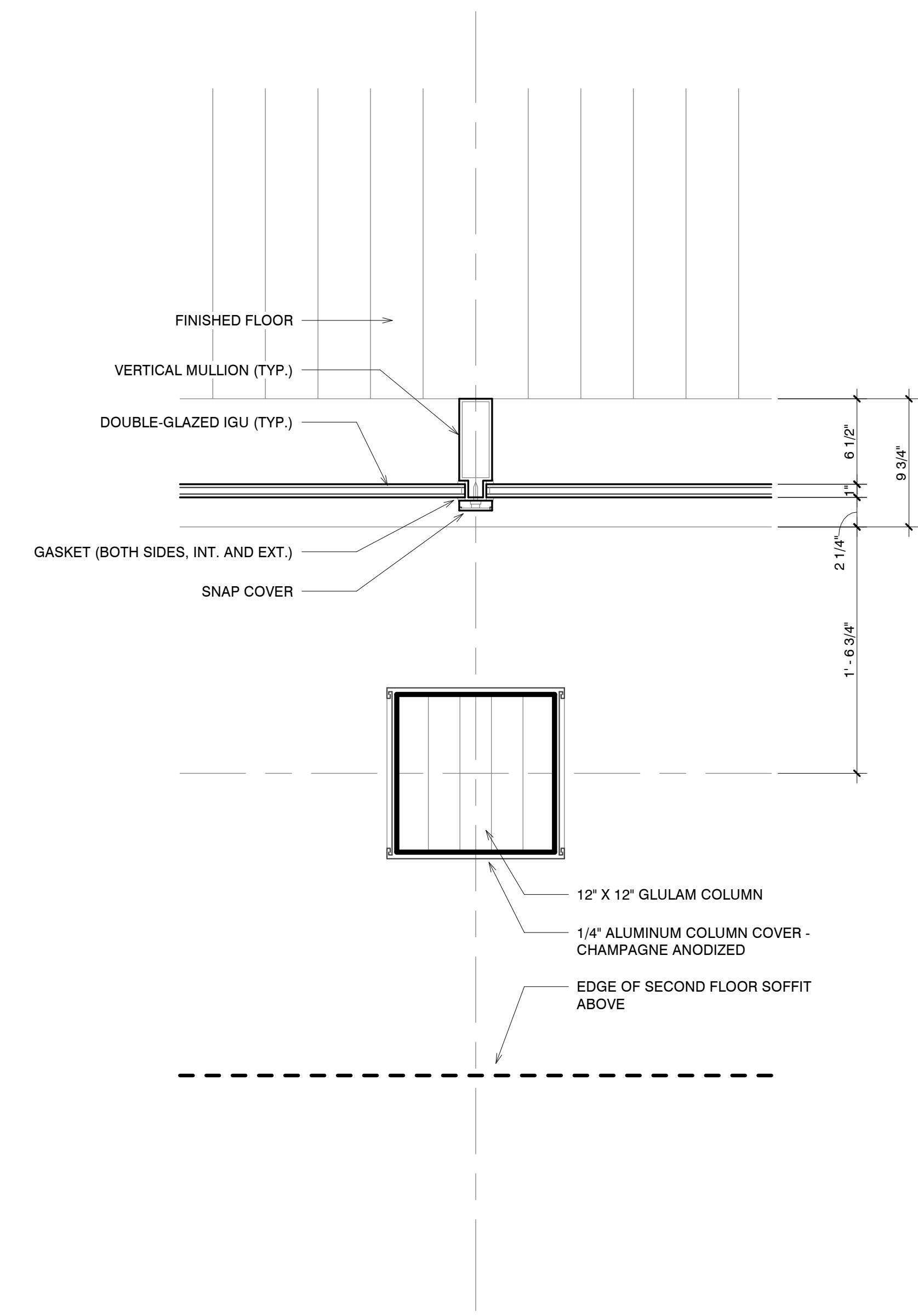
Storefront
Details

Project number	21001
Date	Dec. 17, 2021
Scale	1 1/2" = 1'-0"

F310



TYPICAL STOREFRONT SOFFIT DETAIL - PLAN 2
SCALE: 1 1/2" = 1'-0"



TYPICAL STOREFRONT DETAIL - PLAN 1
SCALE: 1 1/2" = 1'-0"