





PROJECT INFORMATION

PROJECT INFORMATION

Table with 2 columns: Field (Building Area, Building Height, etc.) and Value (8,054 SF, 20' +/-, etc.)

APPLICABLE CODES

CONSTRUCTION TO COMPLY WITH THE FOLLOWING CODES AS LOCALLY AMENDED BY THE DENVER BUILDING AND FIRE CODE

- 2021 INTERNATIONAL BUILDING CODE (IBC)
2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2021 INTERNATIONAL MECHANICAL CODE (IMC)
2021 INTERNATIONAL PLUMBING CODE (IPC)
2021 INTERNATIONAL FIRE CODE (IFC)
2021 INTERNATIONAL FUEL GAS CODE (IFGC)
2023 NATIONAL ELECTRICAL CODE (NEC)
2017 ICC/ANSI A117.1 ACCESSIBILITY STANDARDS
CRS 9-5 COLORADO STATE ACCESSIBILITY

PROJECT NARRATIVE

INTERIOR BUILD-OUT FOR A NEW AESTHETICIAN OFFICE/MEDICAL SPA LOCATED ON THE UPPER FLOOR AND PORTION OF THE LOWER FLOOR OF AN EXISTING TWO-STORY BUILDING...

CODE ANALYSIS (EXISTING BUILDING CODE)

CHAPTER 2 DEFINITIONS

TECHNICALLY INFEASIBLE
AN ALTERATION OF A FACILITY THAT HAS LITTLE LIKELIHOOD OF BEING ACCOMPLISHED BECAUSE THE EXISTING STRUCTURAL CONDITIONS REQUIRE THE REMOVAL OR ALTERATION OF A LOAD-BEARING MEMBER...

CHAPTER 3 PROVISIONS FOR ALL COMPLIANCE METHODS

- 305.5 EXTENT OF APPLICATION
305.6 ALTERATIONS
305.7 ALTERATIONS AFFECTING AN AREA CONTAINING A PRIMARY FUNCTION
305.8 ALTERATIONS AFFECTING AN AREA CONTAINING A PRIMARY FUNCTION WHERE AN ALTERATION AFFECTS THE ACCESSIBILITY TO, OR CONTAINS AN AREA OF PRIMARY FUNCTION...

CHAPTER 6 CLASSIFICATION OF WORK

- 604 ALTERATION - LEVEL 3
WORK AREA EXCEEDS 50% OF THE BUILDING AREA.
LEVEL 3 ALTERATIONS TO COMPLY WITH CHAPTERS 7 AND 8 FOR LEVEL 1 AND LEVEL 2 ALTERATIONS, AS WELL AS CHAPTER 9.

CHAPTER 7 ALTERATIONS - LEVEL 1

- 701 GENERAL
702 BUILDING ELEMENTS AND MATERIALS
703 FIRE PROTECTION
704 MEANS OF EGRESS
707 ENERGY CONSERVATION

CHAPTER 8 ALTERATIONS - LEVEL 2

- 801 GENERAL
802 BUILDING ELEMENTS AND MATERIALS
805 MEANS OF EGRESS
809 PLUMBING
809 ENERGY CONSERVATION

CHAPTER 9 ALTERATIONS - LEVEL 3

- 901 GENERAL
903 BUILDING ELEMENTS AND MATERIALS
904 FIRE PROTECTION
905 MEANS OF EGRESS
907 ENERGY CONSERVATION

CODE ANALYSIS (NEW CONSTRUCTION)

CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION

- 303 ASSEMBLY GROUP A
SMALL ASSEMBLY SPACES
ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 AND ACCESSORY TO ANOTHER OCCUPANCY...

304 BUSINESS GROUP B

- PROFESSIONAL SERVICES

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS

504 BUILDING HEIGHT AND NUMBER OF STORES & 506 BUILDING AREA

Table with 6 columns: Building Area, Occupancy Classification, Type of Const, Allowable Building Height, Allowable Number of Stories, Allowable Area Factor

PROPOSED BUILDING HEIGHTS AND AREAS

Table with 6 columns: Building Area, Occupancy Classification, Type of Const, Proposed Building Height, Proposed Number of Stories, Proposed Area

- NO AREA INCREASE REQUIRED

CHAPTER 6 TYPES OF CONSTRUCTION

TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

Table with 2 columns: Building Element, Fire-Resistance Rating

CHAPTER 10 MEANS OF EGRESS

1004 OCCUPANT LOAD

- TABLE 1004.5

Table with 7 columns: Name, Occ. Type, Function of Space, Gross/Net Area, Load Factor, Factor Type, Occ. Load

TOTALS:

7816 SF 111

1005 MEANS OF EGRESS SIZING

- STAIRWAYS: 0.3 INCHES PER OCCUPANT
ALL OTHER COMPONENTS: 0.2 INCHES PER OCCUPANT

1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS

- MULTIPLE EXITS ARE REQUIRED IF:
OCCUPANT LOAD OF SPACE EXCEEDS 49
COMMON PATH OF EGRESS TRAVEL DISTANCE W/O SPRINKLER SYSTEM, OCCUPANT LOAD LESS THAN OR EQUAL TO 30; EXCEEDS 100 FT W/O SPRINKLER SYSTEM, OCCUPANT LOAD GREATER THAN 30; EXCEEDS 75 FT

OCC. LOAD AND EGRESS TRAVEL DISTANCE EXCEED VALUES LISTED - MULTIPLE EXITS REQUIRED/PROVIDED

CODE ANALYSIS (NEW CONSTRUCTION)

CHAPTER 10 MEANS OF EGRESS, CONTINUED

- 1007 EXIT AND EXIT ACCESS DOORWAY CONFIGURATION
SEPARATION OF 1/2 THE BUILDING DIAGONAL DISTANCE
1009 ACCESSIBLE MEANS OF EGRESS
STAIRWAYS: THE EXISTING STAIRWAYS ARE NOT REQUIRED TO BE MODIFIED TO MEET THE REQUIREMENTS OF AN ACCESSIBLE MEANS OF EGRESS...

1011 STAIRWAYS

- HANDRAILS
HANDRAILS TO BE PROVIDED ON EACH SIDE OF STAIRWAY.
GLASS TO COMPLY WITH SECTION 2407.
GUARDS
GUARDS TO BE PROVIDED ALONG STAIRWAYS AND LANDINGS.

1014 HANDRAILS

- HANDRAILS TO BE PROVIDED AT EXISTING STAIRWAYS
HEIGHT: MIN. 34 INCHES, MAX. 38 INCHES, ABOVE TREAD NOSINGS.
GRIPPING SURFACES TO BE CONTINUOUS WITHOUT INTERRUPTION.
HANDRAIL EXTENSIONS:
A. EXTEND HORIZONTALLY 12 INCHES BEYOND THE TOP RISER.
B. EXTEND AT CONTINUED SLOPE FOR THE DEPTH OF ONE TREAD BEYOND THE BOTTOM RISER.

1015 GUARDS

- GUARDS TO BE PROVIDED AT OPEN-SIDED WALKING SURFACES, INCLUDING STAIRS AND LANDINGS ABOVE 30 INCHES.
GLAZING TO COMPLY WITH SECTION 2407.
HEIGHT: MIN. 42 INCHES ABOVE LANDING SURFACES AND FROM LEADING EDGES OF TREAD NOSINGS.

1017 EXIT ACCESS TRAVEL DISTANCE

- EXIT ACCESS TRAVEL DISTANCE NOT TO EXCEED 200 FT (NON-SPRINKLERED).

1019 EXIT ACCESS STAIRWAYS AND RAMPS

- FLOOR OPENINGS CONTAINING EXIT ACCESS STAIRWAYS SHALL BE ENCLOSED WITH A SHAFT ENCLOSURE, APPLICABLE EXCEPTION:
EXIT ACCESS STAIRWAYS THAT SERVE OR ATMOSPHERICALLY COMMUNICATE BETWEEN ONLY TWO ADJACENT STORIES...

CHAPTER 11 ACCESSIBILITY

REFER TO CHAPTER 3 OF THE IEBC
ACCESSIBILITY FOR THE FACILITY TO BE PROVIDED TO THE MAXIMUM EXTENT TECHNICALLY FEASIBLE.

1104 ACCESSIBLE ROUTE

- ACCESSIBLE ROUTE WITHIN EACH LEVEL TO BE PROVIDED TO ALL SPACES REQUIRED TO BE ACCESSIBLE.

CHAPTER 24 GLASS AND GLAZING

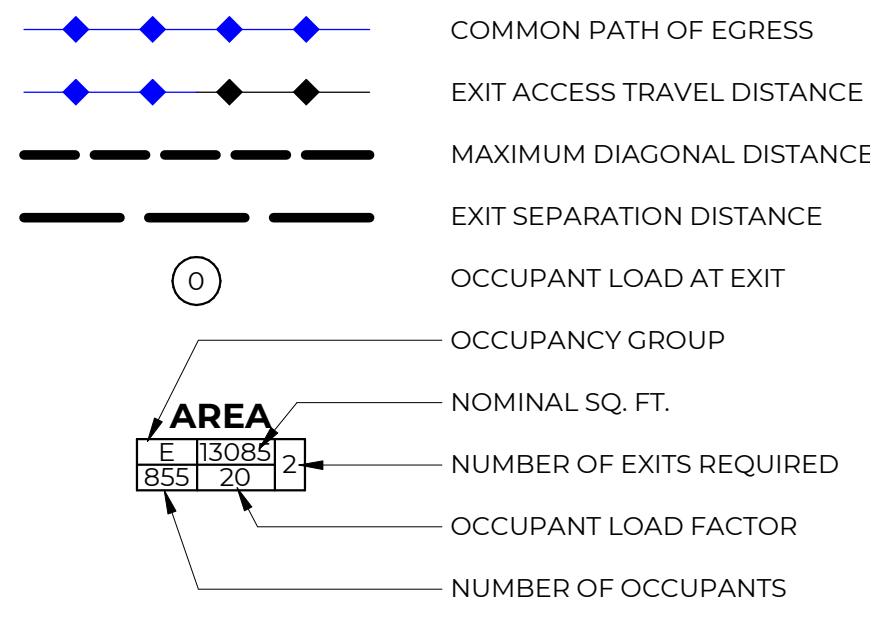
- 2407 GLASS IN HANDRAILS AND GUARDS
GLASS USED IN A HANDRAIL OR A GUARD SHALL BE LAMINATED GLASS CONSTRUCTED OF FULLY TEMPERED OR HEAT-STRENGTHENED GLASS AND SHALL COMPLY WITH CATEGORY II OF CPSC 16 CFR PART 1201 OR CLASS A OF ANSI Z97.1 GLAZING IN A HANDRAIL OR A GUARD SHALL BE OF AN APPROVED SAFETY GLAZING MATERIAL THAT CONFORMS TO THE PROVISIONS OF SECTION 2406.11 FOR ALL GLAZING TYPES. THE MINIMUM NOMINAL THICKNESS SHALL BE 1/4 INCH.

CHAPTER 29 PLUMBING SYSTEMS

Table with 7 columns: Occupancy Class, No. of Occ., Water Closets/Urinals, Lavatories, Drinking Fountains, Service Sink

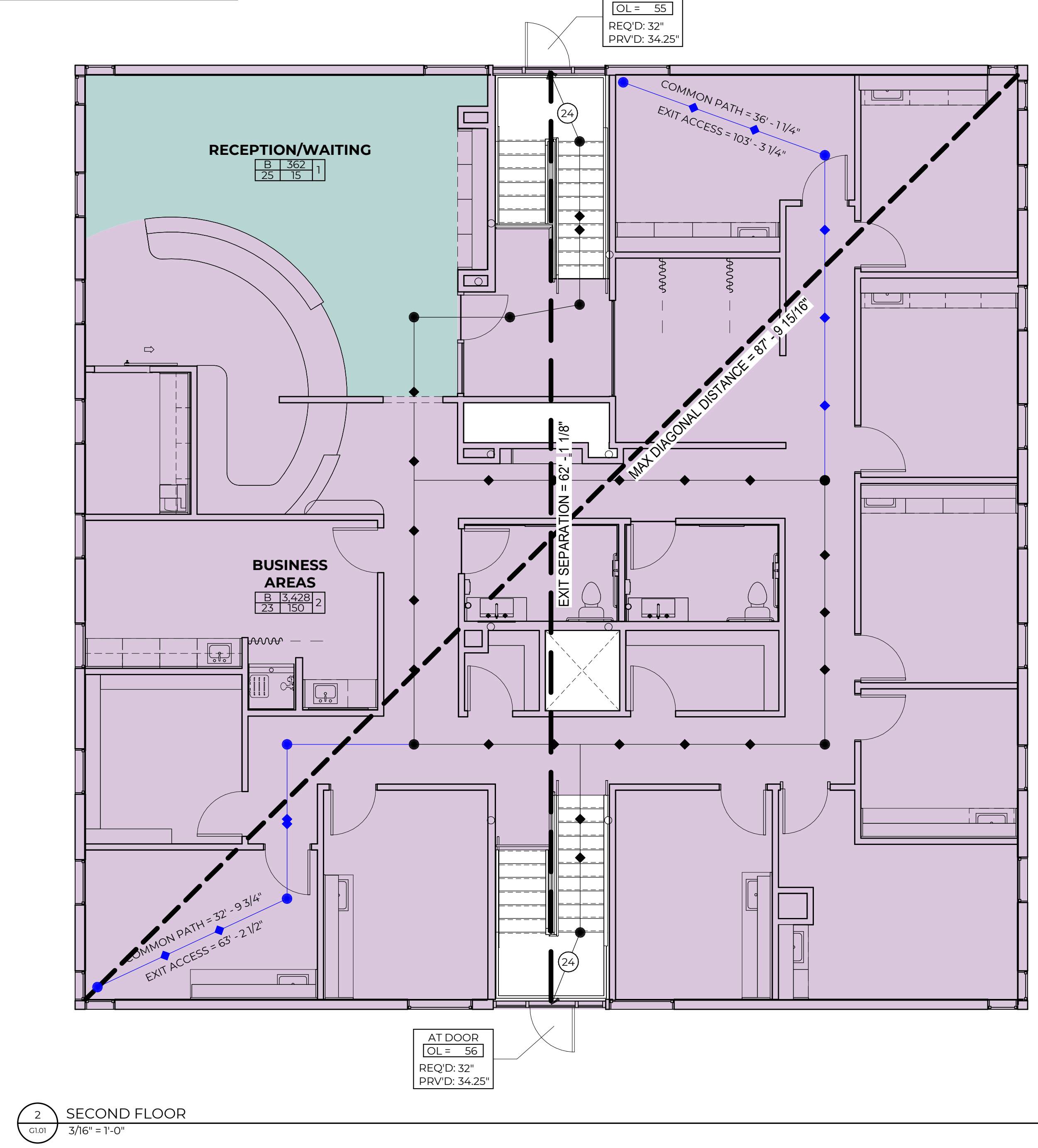
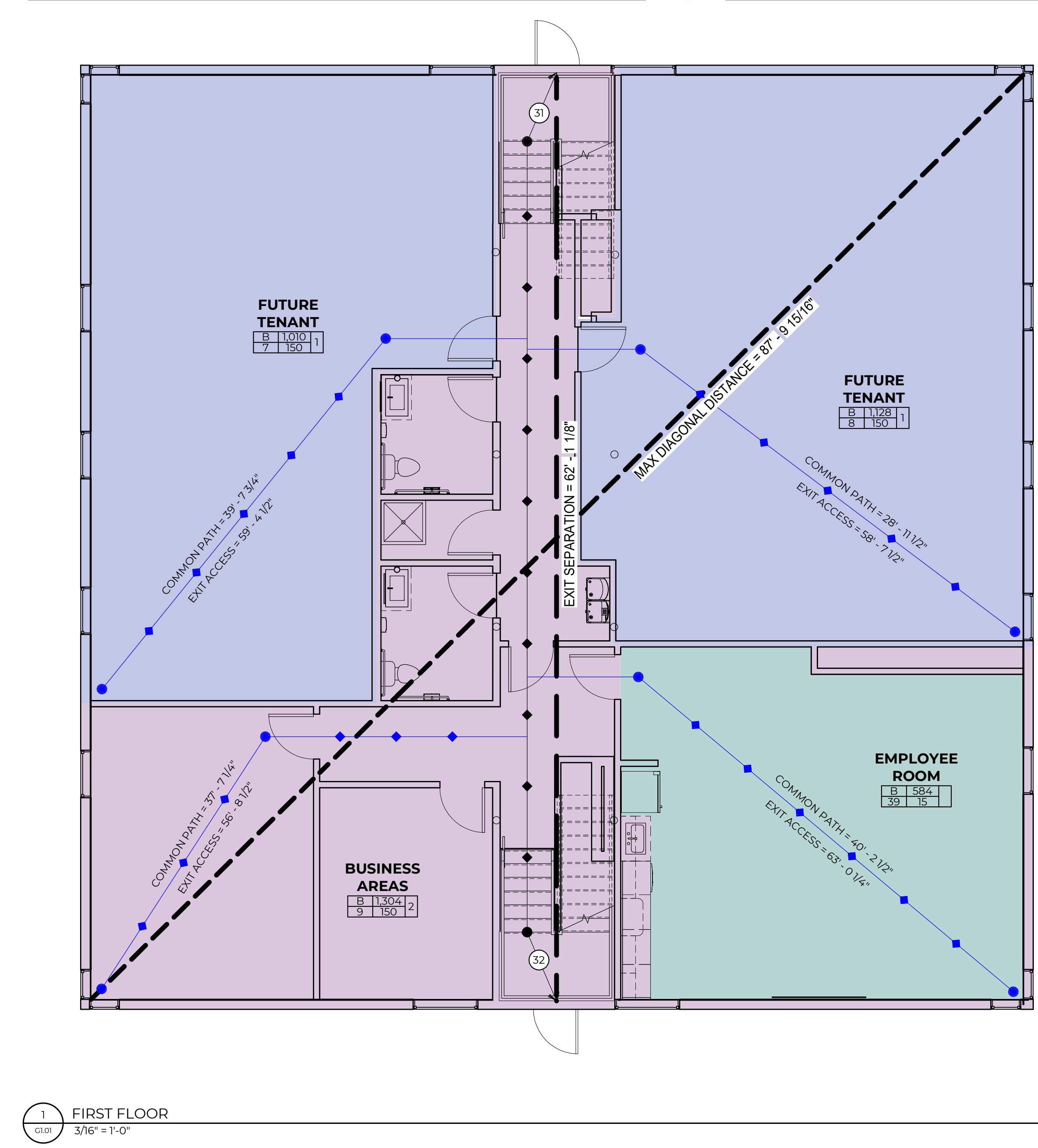
Table with 7 columns: Occupancy Class, No. of Occ., Water Closets/Urinals, Lavatories, Drinking Fountains, Service Sink

CODE PLAN LEGEND



FUNCTION OF SPACE

- ASSEMBLY W/O FIXED SEATS: UNCONCENTRATED (TABLES AND CHAIRS)
BUSINESS AREAS
BUSINESS AREAS (FUTURE)



DESIGN STUDIO BLUE logo and contact information: 88 INVERNESS CIRCLE E., #101 ENGLEWOOD, CO 80112

REVISIONS table with columns: NO, DESCRIPTION, DATE

CONSULTANT: COLAB ARCHITECTURE logo and address: 9217 EASTMAN PARK DRIVE, UNIT 3 WINDSOR, COLORADO 80550

CONSULTANT PROJECT NO.: C2024.035

ANGEL AESTHETICS logo and address: 7090 HAMPDEN AVE DENVER, CO 80224

Table with project details: SHEET NAME: CODE ANALYSIS, ISSUE DATE: 01/10/2025, ISSUED FOR: CONSTRUCTION, PROJECT NO: 2024.55, SHEET NO: G1.01



**STATEMENT OF QUALIFICATIONS**  
 In accordance with C.R.S. 12-26-303 (b)(3)(ii) I hereby certify that I have met the education and experience requirements of said law. Subsequently passed the qualification examination administered by the National Council for Interior Design Qualification.  
 NCIDQ Certificate Holder Name: Rebecca Brennan  
 NCIDQ Certificate Number: 158104  
 NCIDQ confirmation available at 202.721.0220 or online: [https://nycidq.com/certification\\_verification/](https://nycidq.com/certification_verification/)  
 I currently hold professional liability coverage:  
 Insurance carrier: Sentinel Hartford Fire Insurers  
 Policy number: 160,19682, 19038  
Rebecca Brennan 1/13/2025  
 Qualified Interior Designer's Signature Date

**REVISIONS**

NO	DESCRIPTION	DATE

CONSULTANT: \_\_\_\_\_ CONSULTANT SEAL: \_\_\_\_\_

CONSULTANT PROJECT NO.: \_\_\_\_\_

**ANGEL AESTHETICS**  
 7090 E HAMPDEN AVE  
 DENVER, CO 80224

Angel Aesthetics

**LEVEL 1 PARTITION PLAN**

ISSUE DATE:	ISSUED FOR:
1/13/2025	CONSTRUCTION
DESIGNED:	PROJECT NO:
MH	2024.55
QA/QC:	SHEET NO:
DC	1300
SCALE:	
As Indicated	

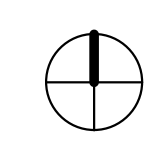


**PARTITION LEGEND**

	EXISTING PARTITION
	NEW PARTITION TO 6" ABOVE CEILING W/ SOUND INSULATION IN WALLS.
	NEW FULL HEIGHT PARTITION TO CEILING W/ SOUND INSULATION IN WALLS.
	NEW DOOR. SEE KEYNOTES FOR DOOR HARDWARE REQUIREMENTS.

- DOOR & HARDWARE NOTES**
- ALL HARDWARE TO BE SCHLAGE LATTITUDE.  
AGED BRONZE FINISH.
  - ALL NEW DOOR FRAMES TO BE PAINTED P2  
SEMI-GLOSS U.N.O.
  - ALL DOORS SHOULD BE STAINED TO MATCH  
FORMICA WALNUT RIFTWOOD 9283-NG.

1 LEVEL 1 - PARTITION PLAN  
 3/8" = 1'-0"



**PARTITION LEGEND**

- EXISTING PARTITION
- NEW PARTITION TO 6" ABOVE CEILING W/ SOUND INSULATION IN WALLS.
- NEW FULL HEIGHT PARTITION TO CEILING W/ SOUND INSULATION IN WALLS.
- NEW DOOR. SEE KEYNOTES FOR DOOR HARDWARE REQUIREMENTS.



88 INVERNESS CIRCLE E, J101  
ENGLEWOOD, CO 80112  
PHONE: 720.724.3149  
EMAIL: info@designstudio-blue.com  
designstudio-blue.com

**STATEMENT OF QUALIFICATIONS**

In accordance with C.R.S. 12-26-303 (b)(2)(1) I hereby certify that I am not the education and experience requirements of said law. Subsequently passed, the qualification examination administered by the National Council for Interior Design Qualification.

NCIDQ Certificate Holder Name: Rebecca Brennan

NCIDQ Certificate Number: 158104

NCIDQ confirmation available at 202.721.0220 or online: <https://nycidq.org/verify/>

I currently hold professional liability coverage:

Insurance carrier: Sentinel Hartford Fire Insurers

Policy number: 160,19682, 19038

Rebecca Brennan 1/13/2025  
Qualified Interior Designer's Signature Date

**DOOR & HARDWARE NOTES**

1. ALL HARDWARE TO BE SCHLAGE LATTITUDE. AGED BRONZE FINISH.
2. ALL NEW DOOR FRAMES TO BE PAINTED P2 SEMI-GLOSS U.N.O.
3. ALL DOORS SHOULD BE STAINED TO MATCH FORMICA WALNUT RIFTWOOD 9283-NG.

**REVISIONS**

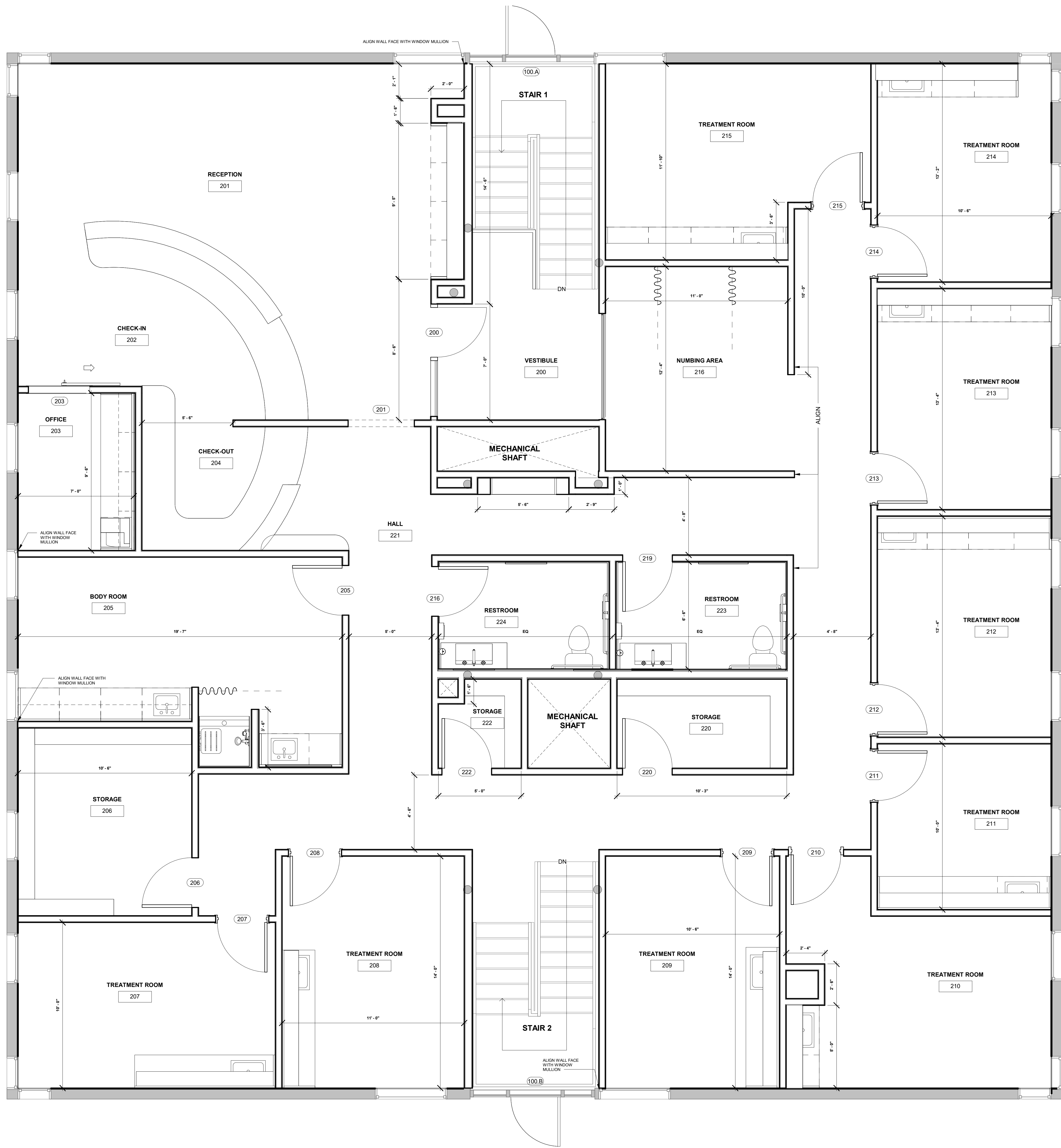
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CONSULTANT: \_\_\_\_\_ CONSULTANT SEAL: \_\_\_\_\_

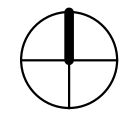
CONSULTANT PROJECT NO.: \_\_\_\_\_

# ANGEL AESTHETICS

7090 E HAMPDEN AVE  
DENVER, CO 80224



1 LEVEL 2 - PARTITION PLAN  
3/8" = 1'-0"



1/15/2025 11:12:19 AM

**STATEMENT OF QUALIFICATIONS**  
 In accordance with C.R.S. 12-26-303 (b)(3)(i) I hereby certify that I have met the education and experience requirements of said law. Subsequently passed, the qualification examination administered by the National Council for Interior Design Qualification.

NCIDQ Certificate Holder Name: Rebecca Brennan  
 NCIDQ Certificate Number: 158104  
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Rebecca Brennan 1/13/2025  
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REVISIONS		
NO	DESCRIPTION	DATE

CONSULTANT: \_\_\_\_\_ CONSULTANT SEAL: \_\_\_\_\_

CONSULTANT PROJECT NO.: \_\_\_\_\_

**KEY PLAN KEYNOTES**

PP1 FURR OUT ALL EXTERIOR WALLS WITH GYP WALL BOARD AND R19 INSULATION. FINISH TO LIKE-NEW CONDITION.

PP2 FURR OUT WALL TO ENCAPSULATE COLUMNS ENTIRELY.

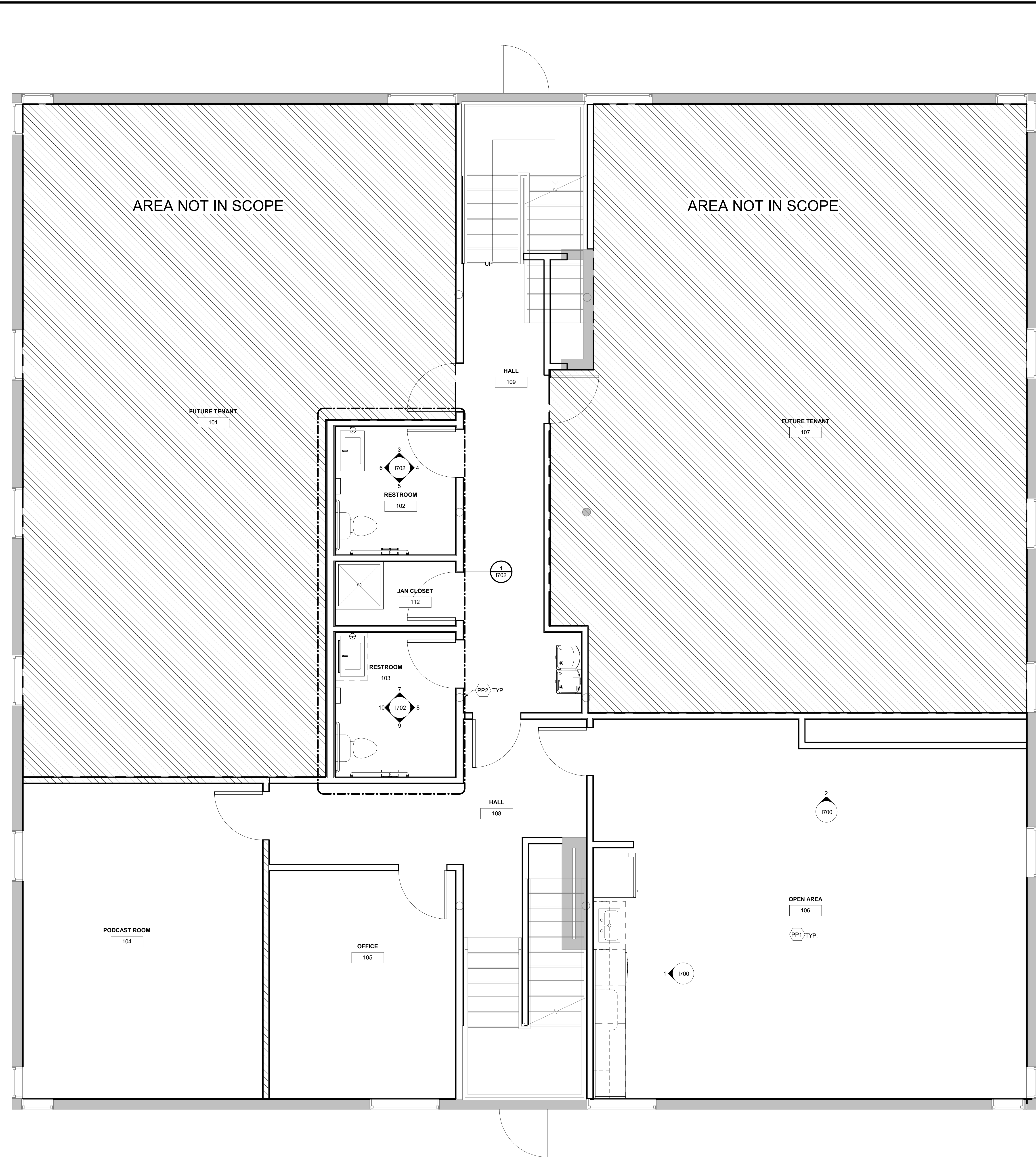
# ANGEL AESTHETICS

7090 E HAMPDEN AVE  
DENVER, CO 80224

Angel Aesthetics

SHEET NAME:  
**LEVEL 1 PARTITION KEYPLAN**

ISSUE DATE: <b>1/13/2025</b>	ISSUED FOR: <b>CONSTRUCTION</b>
DESIGNED: <b>MH</b>	PROJECT NO: <b>2024.55</b>
QA/QC: <b>DC</b>	SHEET NO: <b>1302</b>
SCALE: <b>As indicated</b>	



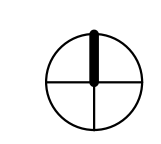
**PARTITION LEGEND**

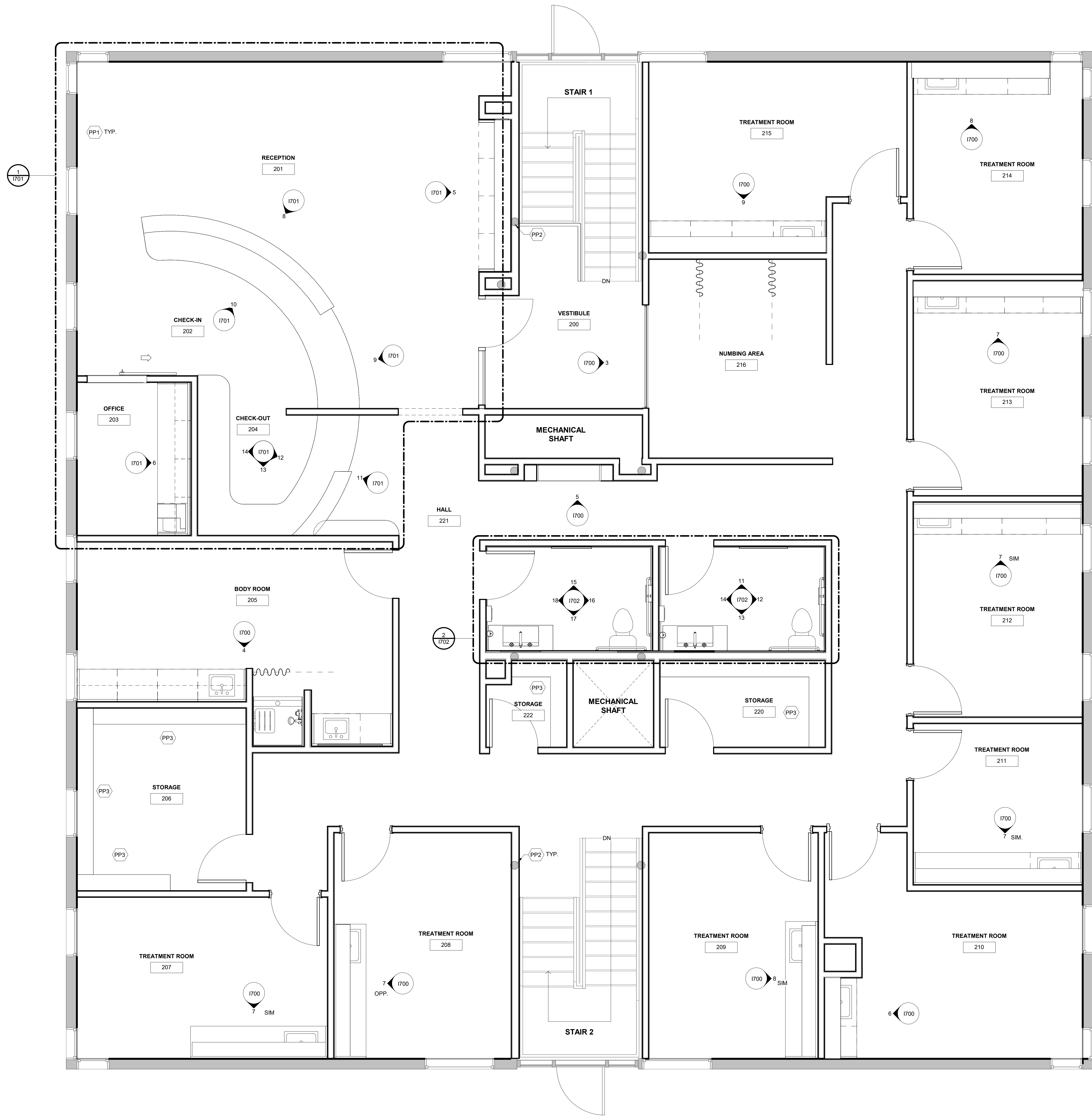
	EXISTING PARTITION
	NEW PARTITION TO 6" ABOVE CEILING W/ SOUND INSULATION IN WALLS.
	NEW FULL HEIGHT PARTITION TO CEILING W/ SOUND INSULATION IN WALLS.
	NEW DOOR. SEE KEYNOTES FOR DOOR HARDWARE REQUIREMENTS.

**GENERAL PARTITION NOTES**

- RE-TEXTURE ALL WALLS FOR A LEVEL 4 FINISH.

1 LEVEL 1 - PARTITION KEYPLAN  
3/8" = 1'-0"





**PARTITION LEGEND**

- EXISTING PARTITION
- NEW PARTITION TO 6" ABOVE CEILING W/ SOUND INSULATION IN WALLS.
- NEW FULL HEIGHT PARTITION TO CEILING W/ SOUND INSULATION IN WALLS.
- NEW DOOR. SEE KEYNOTES FOR DOOR HARDWARE REQUIREMENTS.

**GENERAL PARTITION NOTES**

1. RE-TEXTURE ALL WALLS FOR A LEVEL 4 FINISH.

**KEY PLAN KEYNOTES**

- PP1 FURR OUT ALL EXTERIOR WALLS WITH GYP WALL BOARD AND R19 INSULATION. FINISH TO LIKE-NEW CONDITION.
- PP2 FURR OUT WALL TO ENCAPSULATE COLUMNS ENTIRELY.
- PP3 PROVIDE AND INSTALL (5) 12"D WHITE MELAMINE SHELVES ON HEAVY DUTY STANDARDS.

**DESIGN STUDIO BLUE**  
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 designstudio-blue.com

**STATEMENT OF QUALIFICATIONS**  
 In accordance with C.R.S. 12-26-303 (b)(3)(D) I hereby certify that I have met the education and experience requirements of said law. Subsequently passed, the qualification examination administered by the National Council for Interior Design Qualification.  
 NCIDQ Certificate Holder Name: Rebecca Brennan  
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 Policy number: 160019682, 19038  
Rebecca Brennan 1/13/2025  
 Qualified Interior Designer's Signature Date

REVISIONS		
NO	DESCRIPTION	DATE

CONSULTANT: \_\_\_\_\_ CONSULTANT SEAL: \_\_\_\_\_

CONSULTANT PROJECT NO.: \_\_\_\_\_

**ANGEL AESTHETICS**

7090 E HAMPDEN AVE  
DENVER, CO 80224

Angel Aesthetics

SHEET NAME: <b>LEVEL 2 PARTITION KEYPLAN</b>	
ISSUE DATE: <b>1/13/2025</b>	ISSUED FOR: <b>CONSTRUCTION</b>
DESIGNED: <b>MH</b>	PROJECT NO: <b>2024.55</b>
QA/QC: <b>DC</b>	SHEET NO: <b>1303</b>
SCALE: <b>As indicated</b>	

1 LEVEL 2 - PARTITION KEYPLAN  
3/8" = 1'-0"

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# FINISH LEGEND

## 09 00 FLOORING AND WALL BASE

CODE	MANUFACTURER	STYLE	COLOR	SIZE / THICKNESS	INSTALLATION METHOD	NOTES	CONTACT
LV11	TARKETT	TRUE TO FORM, CONTOUR	BLUSHED TAUPE QU	12" X 36" / 0.81 MM	ASHLAR		michelle.lancaster@tarkett.com
LV12	TARKETT	TRUE TO FORM, BRANCHED OAK	4611 BROOK HILL	36" X 6" / 0.81 MM	ASHLAR		michelle.lancaster@tarkett.com

## TILE FLOORING

CODE	MANUFACTURER	STYLE / PATTERN	COLOR	SIZE / THICKNESS	INSTALLATION METHOD	GROUT (MANUF / COLOR)	CONTACT
TF1	CONCEPT SURFACES	RIDGE	IVORY	12" X 24" / 5/16"	STRAIGHT	MAPEI / PEWTER 5002	christinen@conceptsurfaces.com

## 09 05 13 VINYL WALL BASE

CODE	MANUFACTURER	STYLE	COLOR	SIZE	TYPE / TOE	NOTES	CONTACT
RB1	JOHNSONITE BY TARKETT	RUBBER BASE	283 TOAST	4" H	COVE BASE		michelle.lancaster@tarkett.com

## TILE BASE

CODE	MANUFACTURER	STYLE	COLOR	SIZE	INSTALLATION METHOD	GROUT (MANUF / COLOR)	CONTACT
TB1	CONCEPT SURFACES	RIDGE	IVORY	4" X 12" / 5/16"	ALIGN GROUT LINES WITH FLOOR TILE	MAPEI / PEWTER 5002	christinen@conceptsurfaces.com

## TRANSITIONS

CODE	MANUFACTURER	STYLE	FINISH	APPLICATION	NOTES	CONTACT
TS1	SCHLUTER	REN-CU	BRUSHED COPPER ANNOXIDIZED	LVT TO TILE		sschilling@schluter.com
TS2	SCHLUTER	WINPRO-RO	BRUSHED COPPER ANNOXIDIZED	STAIRS		sschilling@schluter.com

## 09 70 00 WALLS

CODE	MANUFACTURER	STYLE	COLOR	SIZE / THICKNESS	GROUT (MANUF / COLOR)	NOTES	CONTACT
TW1	ECO TILE IMPORTS	REFLECTION	GARDEN COPPER	15.75" X 47.25" / 9MM	MAPEI / FLEX COLOR 3D, COPPER DAWN 208	1MM GROUT LINES	
TW2	TILEBAR	METAL	COPPER	.75" PENNY ROUND MOSAIC	MAPEI / BRICK RED 113		mbourne@tilebar.com
TW3	DALTILE	FAMED	ICONIC FM11 - POLISHED	12" X 24" / 5/16"	MAPEI / PEWTER 5002		darrin.pecharich@daltile.com

NOTE: REFER TO GENERAL NOTES, SECTION WALLS AND DOORS, FOR PAINT SHEEN TYPES BY ROOM TYPE.

## 09 91 23 PAINT

CODE	MANUFACTURER	TYPE	COLOR	NOTES	CONTACT
P1	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC (OR APPROVED EQUAL)	SW 7013 IVORY LACE	FIELD PAINT - EGGSHELL	peter.krennm@sherwin.com
P2	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC (OR APPROVED EQUAL)	SW 7023 WARM STONE	DOOR FRAMES AND TRIM - SEMI GLOSS	peter.krennm@sherwin.com
P3	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC (OR APPROVED EQUAL)	SW 7551 GREEK VILLA	CEILING PAINT - FLAT	peter.krennm@sherwin.com
P4	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC (OR APPROVED EQUAL)	SW 6060 MOROCCAN SPICE	CEILING PAINT - FLAT	peter.krennm@sherwin.com
P5	SHERWIN WILLIAMS	PROMAR 200 ZERO VOC (OR APPROVED EQUAL)	SW 6174 ANDIRON	ACCENT - EGGSHELL	peter.krennm@sherwin.com

## WALL COVERING

CODE	MANUFACTURER	STYLE	COLOR	WEIGHT / WIDTH	NOTES	CONTACT
WC1	MOMENTUM	VERSA / PALLAS	AVF27-031 CHALKDUST	20 OZ/LY / 54"	TYPE II WALL COVERING	csibilla@morttex.com

## 09 51 23 ACOUSTICAL CEILING TILE

CODE	MANUFACTURER	STYLE/NUMBER	COLOR	SIZE/THICKNESS	NRG/CAC	SUSPENSION SYSTEM	CONTACT
ACT1	ARMSTRONG	ULTIMA LAY IN	WHITE	24" X 24" / .30"	0.75 NRG / 35 CAC	PRELUDE XL 1516	kshedd4@armstrong.com

## 06 00 00 CASEWORK

CODE	MANUFACTURER	STYLE	COLOR/NUMBER	NOTES	CONTACT
PL1	FORMICA	SOLID COLOR LAMINATE	OYSTER GRAY 929-58	EXISTING	wendy.leigh@formica.com
PL2	FORMICA	STANDARD LAMINATE	HAZEL WALNUT 5789-NG	NATURAL GRAIN FINISH	wendy.leigh@formica.com

## SOLID SURFACE

CODE	MANUFACTURER	STYLE	COLOR/NUMBER	SIZE / THICKNESS	NOTES	CONTACT
SS1	LX HAUSSYS	HI MACS	AURORA BISCOTTI M618	30" X 145" / 1/2"		ldecaire@lxhausys.com

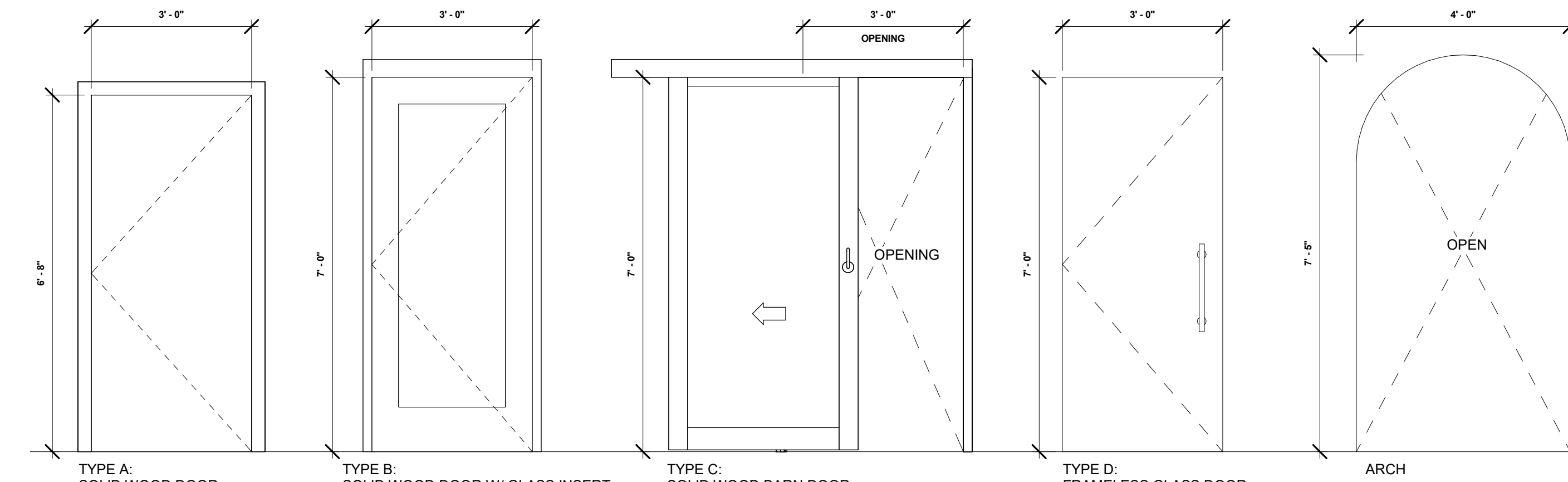
## ENGINEERED STONE

CODE	MANUFACTURER	STYLE	COLOR	THICKNESS	NOTES	CONTACT
ES1	CAMBRIA	QUARTZ	EVERLEIGH WARM	2CM		julio.ochoa@cambriausa.com

## MISCELLANEOUS

CODE	MANUFACTURER	OPERATION SYSTEM	MANUAL/MOTORIZED	STYLE/SHADE COLOR	MOUNTING INFO	NOTES	CONTACT
WT1	DRAPER	CLUTCH OPERATED FLEX SHADE	MANUAL	E SCREEN 3% WHITE/ LINEN	SURFACE MOUNTED		jill.kelly@draperinc.com

ROOM NAME	DOOR #	TYPE	WIDTH	HEIGHT	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	JAMB DETAIL	HARDWARE SET	COMMENTS
STAIR 1	100.A	EXISTING	3' - 0"	7' - 0"	EXISTING	EXISTING	EXISTING	-		
STAIR 2	100.B	EXISTING	3' - 0"	7' - 0"	EXISTING	EXISTING	EXISTING	-		
FUTURE TENANT	101	A	3' - 0"	7' - 0"	SOLID WOOD	STAINED TO MATCH FORMICA WALNUT RIFTWOOD	H.M. PAINTED P2	101/704	LEVER OFFICE LOCKSET	TEMPORARY DOOR, CAN BE MOVED BY FUTURE TENANT
RESTROOM	102	A	3' - 0"	7' - 0"	SOLID WOOD	STAINED TO MATCH FORMICA WALNUT RIFTWOOD	H.M. PAINTED P2	101/704	LEVER PRIVACY LOCKSET	
RESTROOM	103	A	3' - 0"	7' - 0"	SOLID WOOD	STAINED TO MATCH FORMICA WALNUT RIFTWOOD	H.M. PAINTED P2	101/704	LEVER PRIVACY LOCKSET	
PODCAST ROOM	104	A	3' - 0"	7' - 0"	SOLID WOOD	STAINED TO MATCH FORMICA WALNUT RIFTWOOD	H.M. PAINTED P2	101/704	LEVER CLASSROOM LOCKSET	
OFFICE	105	A	3' - 0"	7' - 0"	SOLID WOOD	STAINED TO MATCH FORMICA WALNUT RIFTWOOD	H.M. PAINTED P2	101/704	LEVER OFFICE LOCKSET	
FUTURE TENANT	107	A	3' - 0"	7' - 0"	SOLID WOOD	STAINED TO MATCH FORMICA WALNUT RIFTWOOD	H.M. PAINTED P2	101/704	LEVER OFFICE LOCKSET	TEMPORARY DOOR, CAN BE MOVED BY FUTURE TENANT
JAN CLOSET	112	A	3' - 0"	7' - 0"	SOLID WOOD	STAINED TO MATCH FORMICA WALNUT RIFTWOOD	H.M. PAINTED P2	101/704	LEVER STOREROOM LOCKSET	
VESTIBULE	200	D	3' - 0"	7' - 0"	GLASS		-	-	24" PULL HANDLE, BOTTOM LOCK	
RECEPTION	201	ARCH	4' - 0"	7' - 0"	-	-	-	-		
OFFICE	203	C	6' - 9"	7' - 0"	SOLID WOOD	STAINED TO MATCH FORMICA WALNUT RIFTWOOD	H.M. PAINTED P2	101/704	LEVER CLASSROOM LOCKSET	
BODY ROOM	205	A	3' - 0"	7' - 0"	SOLID WOOD	STAINED TO MATCH FORMICA WALNUT RIFTWOOD	H.M. PAINTED P2	101/704	LEVER OFFICE LOCKSET	
STORAGE	206	A	3' - 0"	7' - 0"	SOLID WOOD	STAINED TO MATCH FORMICA WALNUT RIFTWOOD	H.M. PAINTED P2	101/704	LEVER STOREROOM LOCKSET	
TREATMENT ROOM	207	B	3' - 0"	7' - 0"	WOOD / GLASS	STAINED TO MATCH WALNUT RIFTWOOD / GRADIENT FILM	H.M. PAINTED P2	101/704	LEVER CLASSROOM LOCKSET	
TREATMENT ROOM	208	B	3' - 0"	7' - 0"	WOOD / GLASS	STAINED TO MATCH WALNUT RIFTWOOD / GRADIENT FILM	H.M. PAINTED P2	101/704	LEVER CLASSROOM LOCKSET	
TREATMENT ROOM	209	B	3' - 0"	7' - 0"	WOOD / GLASS	STAINED TO MATCH WALNUT RIFTWOOD / GRADIENT FILM	H.M. PAINTED P2	101/704	LEVER CLASSROOM LOCKSET	
TREATMENT ROOM	210	B	3' - 0"	7' - 0"	WOOD / GLASS	STAINED TO MATCH WALNUT RIFTWOOD / GRADIENT FILM	H.M. PAINTED P2	101/704	LEVER CLASSROOM LOCKSET	
TREATMENT ROOM	211	B	3' - 0"	7' - 0"	WOOD / GLASS	STAINED TO MATCH WALNUT RIFTWOOD / GRADIENT FILM	H.M. PAINTED P2	101/704	LEVER CLASSROOM LOCKSET	
TREATMENT ROOM	212	B	3' - 0"	7' - 0"	WOOD / GLASS	STAINED TO MATCH WALNUT RIFTWOOD / GRADIENT FILM	H.M. PAINTED P2	101/704	LEVER CLASSROOM LOCKSET	
TREATMENT ROOM	213	B	3' - 0"	7' - 0"	WOOD / GLASS	STAINED TO MATCH WALNUT RIFTWOOD / GRADIENT FILM	H.M. PAINTED P2	101/704	LEVER CLASSROOM LOCKSET	
TREATMENT ROOM	214	B	3' - 0"	7' - 0"	WOOD / GLASS	STAINED TO MATCH WALNUT RIFTWOOD / GRADIENT FILM	H.M. PAINTED P2	101/704	LEVER CLASSROOM LOCKSET	
TREATMENT ROOM	215	B	3' - 0"	7' - 0"	WOOD / GLASS	STAINED TO MATCH WALNUT RIFTWOOD / GRADIENT FILM	H.M. PAINTED P2	101/704	LEVER CLASSROOM LOCKSET	
RESTROOM	216	A	3' - 0"	7' - 0"	SOLID WOOD	STAINED TO MATCH FORMICA WALNUT RIFTWOOD	H.M. PAINTED P2	101/704	LEVER PRIVACY LOCKSET	
RESTROOM	219	A	3' - 0"	7' - 0"	SOLID WOOD	STAINED TO MATCH FORMICA WALNUT RIFTWOOD	H.M. PAINTED P2	101/704	LEVER PRIVACY LOCKSET	
STORAGE	220	A	3' - 0"	7' - 0"	SOLID WOOD	STAINED TO MATCH FORMICA WALNUT RIFTWOOD	H.M. PAINTED P2	101/704	LEVER STOREROOM LOCKSET	
STORAGE	222	A	3' - 0"	7' - 0"	SOLID WOOD	STAINED TO MATCH FORMICA WALNUT RIFTWOOD	H.M. PAINTED P2	101/704	LEVER STOREROOM LOCKSET	
HALL	228	A	3' - 0"	7' - 0"	SOLID WOOD	STAINED TO MATCH FORMICA WALNUT RIFTWOOD	H.M. PAINTED P2	101/704	LEVER PASSAGE SET	
OPEN AREA	229	A	3' - 0"	7' - 0"	SOLID WOOD	STAINED TO MATCH FORMICA WALNUT RIFTWOOD	H.M. PAINTED P2	101/704	LEVER PASSAGE SET	



DOOR TYPES  
1/2" = 1'-0"

## DOOR & HARDWARE NOTES

- ALL HARDWARE TO BE SCHLAGE LATITUDE. AGED BRONZE FINISH.
- ALL NEW DOOR FRAMES TO BE PAINTED P2 SEMI-GLOSS U.N.O.
- ALL DOORS SHOULD BE STAINED TO MATCH FORMICA WALNUT RIFTWOOD 9283-NG.

DESIGN STUDIO BLUE

88 INVERNESS CIRCLE E., J101  
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EMAIL: info@designstudio-blue.com  
designstudio-blue.com

### STATEMENT OF QUALIFICATIONS

In accordance with C.R.S. 12-26-303 (b)(3) I hereby certify that I hold the education and experience requirements of said law and have subsequently passed the qualification examination promulgated by the National Council for Interior Design Qualification.

NCIDQ Certificate Holder Name: Rebecca Brennan

NCIDQ Certificate Number: 158104

NCIDQ confirmation available at 202.721.0220 or online: <https://myncidq.com/ncidq/verify-verification/>

I currently hold professional liability coverage:

Insurance carrier: Sentinel Hartford Fire Insurers

Policy number: 100,19682, 19038

Rebecca Brennan 1/13/2025  
Qualified Interior Designer's Signature Date

REVISIONS		
NO	DESCRIPTION	DATE

CONSULTANT: \_\_\_\_\_ CONSULTANT SEAL: \_\_\_\_\_

CONSULTANT PROJECT NO.: \_\_\_\_\_

# ANGEL AESTHETICS

7090 E HAMPDEN AVE  
DENVER, CO 80224

Angel Aesthetics

SHEET NAME:  
**DOOR SCHEDULE & FINISH LEGEND**

ISSUE DATE: <b>1/13/2025</b>	ISSUED FOR: <b>CONSTRUCTION</b>
DESIGNED: <b>MH</b>	PROJECT NO: <b>2024.55</b>
QA/QC: <b>DC</b>	SHEET NO:
SCALE: <b>As indicated</b>	<b>1400</b>

**STATEMENT OF QUALIFICATIONS**  
 In accordance with C.R.S. 12-26-303 (b)(3)(B) I hereby certify that I have met the education and experience requirements of said law. Subsequently passed the qualification examination promulgated by the National Council for Interior Design Qualification.

NCIDQ Certificate Holder Name: Rebecca Brennan  
 NCIDQ Certificate Number: 158104  
 NCIDQ confirmation available at 202.721.0220 or online [https://nycidq.usaceius.com/certification\\_verification/](https://nycidq.usaceius.com/certification_verification/)  
 I currently hold professional liability coverage:  
 Insurance carrier: Sentinel Hartford Fire, Travelers  
 Policy number: 100,19082, 19038  
Rebecca Brennan 1/13/2025  
 Qualified Interior Designer's Signature Date

REVISIONS		
NO.	DESCRIPTION	DATE

CONSULTANT: \_\_\_\_\_ CONSULTANT SEAL: \_\_\_\_\_

CONSULTANT PROJECT NO.: \_\_\_\_\_

**ANGEL AESTHETICS**  
 7090 E HAMPDEN AVE  
 DENVER, CO 80224



SHEET NAME:  
**LEVEL 1 INTERIOR FINISH PLAN**

ISSUE DATE: <b>1/13/2025</b>	ISSUED FOR: <b>CONSTRUCTION</b>
DESIGNED: <b>MH</b>	PROJECT NO.: <b>2024.55</b>
QA/QC: <b>DC</b>	SHEET NO.:
SCALE: <b>As indicated</b>	<b>1401</b>

**FINISH LEGEND**  
 ROOM FINISH TAG:  
 TAG IDENTIFIES FINISHES PER ROOM AS LABELED.

Name	Description
101	ALL WALL SURFACES IN THIS ROOM ARE AS INDICATED UNO ON THE FINISH PLAN
FLR	
BASE	
WALL	
CLG	WHERE APPLICABLE CABINET/ COUNTERTOP/ TRANSACTION
CSWK	

WALL FINISH TAG: **PX**  
 WALL FINISH TAG INDICATES LOCATION AND EXTENT OF ACCENT FINISH

WINDOW TREATMENT: **XX**  
 TAG INDICATES TYPE OF WINDOWCOVERING. REFER TO FINISH LEGEND FOR FURTHER DESCRIPTION ON WINDOWCOVERING

LVT1 LVT2 TF1  
 \*GREY ACCENTS SHOWN FOR PATTERN ONLY. RE: FLOOR FINISH TAG & ROOM FINISH SCHEDULE FOR ACCENT FLOOR TYPE.

GRAIN DIRECTION: **→**

FLOOR FINISH: **XX**

FLOOR FINISH TRANSITION: **---**  
 INDICATES LINE OF TRANSITION BETWEEN FLOOR MATERIALS. REFER TO DETAILS SHEET FOR TRANSITION TYPE

**GENERAL FLOOR FINISH NOTES**

- RE: TO SHEET 1703 FOR FLOOR TRANSITION DETAILS
- WALL BASE TO BE INSTALLED AT ALL LOWER CASEWORK, AND FIXED FURNITURE CASEWORK UNO.
- FLOOR PATTERN DIRECTION IS SHOWN WITH GRAIN DIRECTION ARROW. IF NO DIRECTION IS GIVEN SHEET GOODS SHALL RUN THE LENGTH OF THE ROOM TO AVOID UNNECESSARY SEAMS.
- ALL TRANSITIONS WHERE NEW FLOORING MEET EXISTING FLOORING, SHALL BE FLUSH WITHOUT A LIP.

**GENERAL WALL FINISH NOTES**

- WHERE NO PAINT COLOR IS INDICATED, PAINT ALL WALLS P1, UNO.
- PAINT UNDERSIDE AND FACE OF ALL SOFFITS P3, UNO.
- ALL WALLS TO BE PAINTED LOW LUSTER PAINT SHEEN UNO.
- PROVIDE SEMI-GLOSS FINISH IN TOILET ROOMS.
- PAINT ALL METAL DOOR FRAMES, WINDOW FRAMES AND STRUCTURAL MEMBERS P2 DIRECT TO METAL SEMI-GLOSS PAINT AS SPECIFIED.
- EXTENT OF ALL ACCENT WALLS FROM INSIDE CORNER TO INSIDE CORNER, UNO.
- ALL WINDOW SILLS TO BE PAINTED P1 SEMI-GLOSS.

**FINISH PLAN KEYNOTES**



1 LEVEL 1 - FINISH PLAN  
 3/8" = 1'-0"



**STATEMENT OF QUALIFICATIONS**

In accordance with C.R.S. 12-26-303 (b)(3)(i) I hereby certify that I have met the education and experience requirements of said law. Subsequently passed, the qualification examination promulgated by the National Council for Interior Design Qualification.









NCIDQ Certificate Holder Name: Rebecca Brennan  
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 NCIDQ confirmation available at 202.721.0220 or online [https://nycidq.usacepis.com/certification\\_verification/](https://nycidq.usacepis.com/certification_verification/)  
 I currently hold professional liability coverage:  
 Insurance carrier: Sentinel Hartford Fire Insurers  
 Policy number: 1100, 19082, 19038  
Rebecca Brennan 1/13/2025  
 Qualified Interior Designer's Signature Date

**REVISIONS**

NO	DESCRIPTION	DATE

CONSULTANT: \_\_\_\_\_ CONSULTANT SEAL: \_\_\_\_\_

CONSULTANT PROJECT NO.: \_\_\_\_\_

- RCP LEGEND**
-  NEW 2'X2' SUSPENDED CEILING SYSTEM
  -  NEW GYPSUM BOARD CEILING - USE RATED MATERIAL & CONSTRUCTION WHERE REQUIRED
  -  NEW 2'X2' 3500K LIGHT FIXTURE
  -  NEW 2'X4' 3500K LIGHT FIXTURE
  -  NEW RECESSED CAN LIGHT
  -  NEW LINEAR LIGHT
  -  LED UNDER CABINET LIGHTING - 5000K
  -  NEW PENDANT LIGHT



**RCP KEYNOTES**

**ANGEL AESTHETICS**

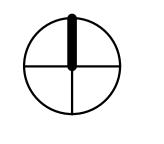
7090 E HAMPDEN AVE  
DENVER, CO 80224



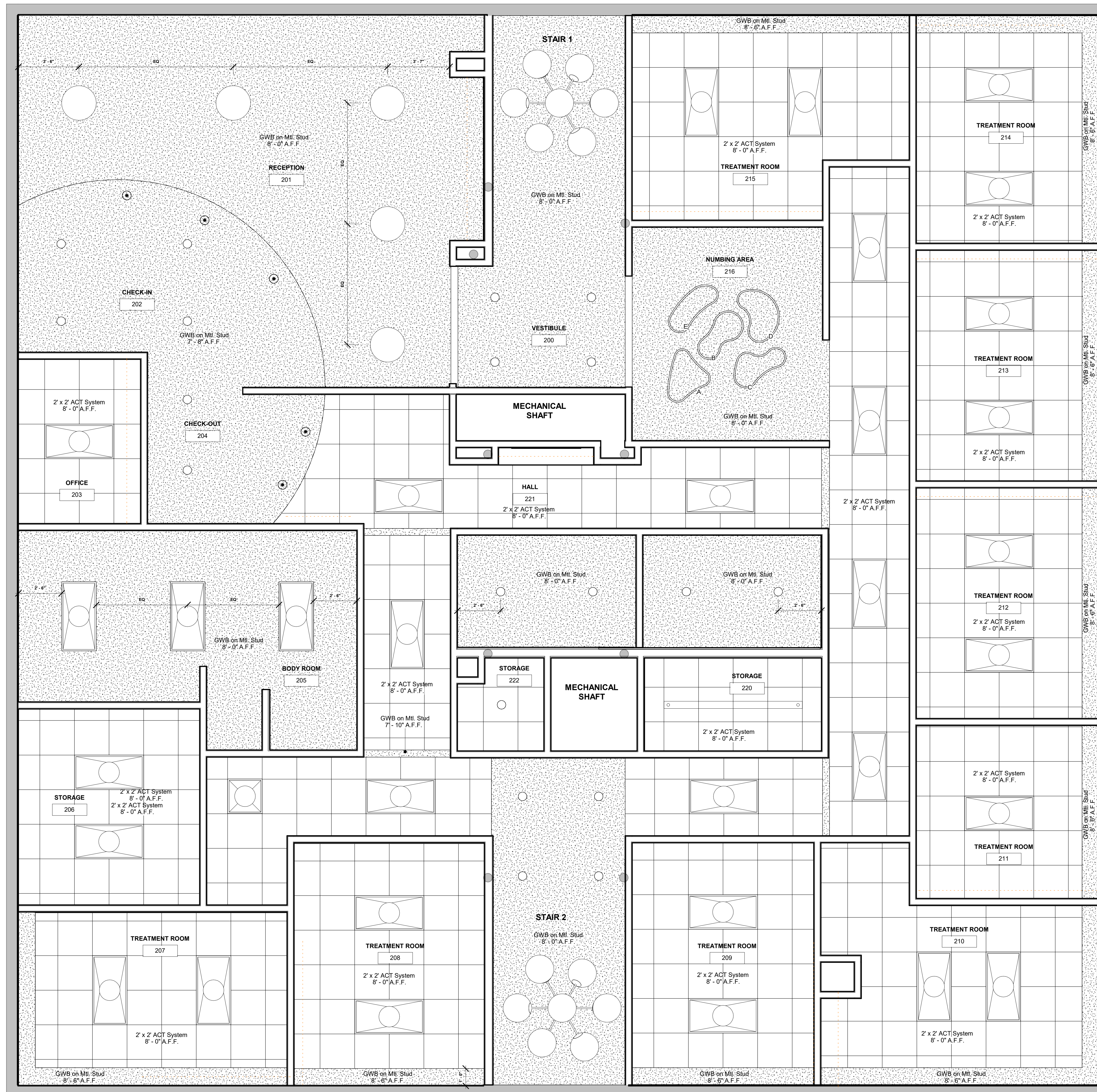
SHEET NAME:  
**LEVEL 1 REFLECTED CEILING PLAN**

ISSUE DATE: <b>1/13/2025</b>	ISSUED FOR: <b>CONSTRUCTION</b>
DESIGNED: <b>MH</b>	PROJECT NO: <b>2024.55</b>
QA/QC: <b>DC</b>	SHEET NO: <b>1500</b>
SCALE: <b>As indicated</b>	

1 Level 1  
3/8" = 1'-0"



1/15/2025 11:12:23 AM



- RCP LEGEND**
- [Symbol] NEW 2'X2' SUSPENDED CEILING SYSTEM
  - [Symbol] NEW GYPSUM BOARD CEILING - USE RATED MATERIAL & CONSTRUCTION WHERE REQUIRED
  - [Symbol] NEW 2'X2' 3500K LIGHT FIXTURE
  - [Symbol] NEW 2'X4' 3500K LIGHT FIXTURE
  - [Symbol] NEW RECESSED CAN LIGHT
  - [Symbol] NEW LINEAR LIGHT
  - [Symbol] LED UNDER CABINET LIGHTING - 5000K
  - [Symbol] NEW PENDANT LIGHT

**DESIGN STUDIO BLUE**  
 88 INVERNESS CIRCLE E., J101  
 ENGLEWOOD, CO 80112  
 PHONE: 720.724.3149  
 EMAIL: info@designstudio-blue.com  
 designstudio-blue.com

**STATEMENT OF QUALIFICATIONS**  
 In accordance with C.R.S. 12-26-303 (b)(3)(D), I hereby certify that I have met the education and experience requirements of said law and have subsequently passed the qualification examination promulgated by the National Council for Interior Design Qualification.  
 NCIDQ Certificate Holder Name: Rebecca Brennan  
 NCIDQ Certificate Number: 158104  
 NCIDQ confirmation available at 202.721.0220 or online: <https://myncidq.usgpc.org/ncidq/verification/>  
 I currently hold professional liability coverage:  
 Insurance carrier: Sentinel Hartford Fire Insurers  
 Policy number: 1100.19082.19038  
Rebecca Brennan 1/13/2025  
 Qualified Interior Designer's Signature Date

**REVISIONS**

NO	DESCRIPTION	DATE

CONSULTANT: \_\_\_\_\_ CONSULTANT SEAL: \_\_\_\_\_

CONSULTANT PROJECT NO.: \_\_\_\_\_

**RCP KEYNOTES**

**ANGEL AESTHETICS**

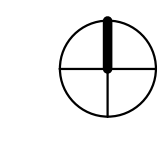
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DENVER, CO 80224



**SHEET NAME:**  
**LEVEL 2 REFLECTED CEILING PLAN**

ISSUE DATE: <b>1/13/2025</b>	ISSUED FOR: <b>CONSTRUCTION</b>
DESIGNED: <b>MH</b>	PROJECT NO: <b>2024.55</b>
QA/QC: <b>DC</b>	SHEET NO: <b>1501</b>
SCALE: <b>As indicated</b>	

1 LEVEL 2 REFLECTED CEILING PLAN  
 3/8" = 1'-0"



1/15/2025 11:12:25 AM



**POWER & SIGNAL LEGEND**

- Ⓝ NEW 110V. DUPLEX RECEPTACLE, MOUNTED VERTICALLY AT +18" A.F.F., U.N.O.
- Ⓜ EXISTING DUPLEX
- Ⓝ NEW FLOOR DUPLEX
- Ⓝ NEW 110V. QUADRAPLEX RECEPTACLE, MOUNTED VERTICALLY AT +18" A.F.F., U.N.O.
- Ⓜ EXISTING QUADRAPLEX
- ▽ NEW PHONE/ DATA OUTLET
- ▽ EXISTING PHONE/ DATA



**STATEMENT OF QUALIFICATIONS**

In accordance with C.R.S. 12-26-303 (b)(2)(1), I hereby certify that I meet the education and experience requirements of said law. Subsequently passed, the qualification examination promulgated by the National Council for Interior Design Qualification.

NCIDQ Certificate Holder Name: Rebecca Brennan

NCIDQ Certificate Number: 158104

NCIDQ confirmation available at 202.721.0220 or online: [https://ncidqusa.org/ncidqus/certificate\\_verification/](https://ncidqusa.org/ncidqus/certificate_verification/)

I currently hold professional liability coverage:

Insurance carrier: Sentinel Hartford Fire Insurers

Policy number: 1100, 19082, 19038

Rebecca Brennan 1/13/2025  
Qualified Interior Designer's Signature Date

REVISIONS		
NO.	DESCRIPTION	DATE

CONSULTANT: \_\_\_\_\_ CONSULTANT SEAL: \_\_\_\_\_

CONSULTANT PROJECT NO.: \_\_\_\_\_

**P&S KEYNOTES**

PS1 THIS AREA TO RECIEVE ELECTRICAL FOR BACKLIT FLOWER WALL BOX PROVIDED BY OWNER.

**ANGEL AESTHETICS**

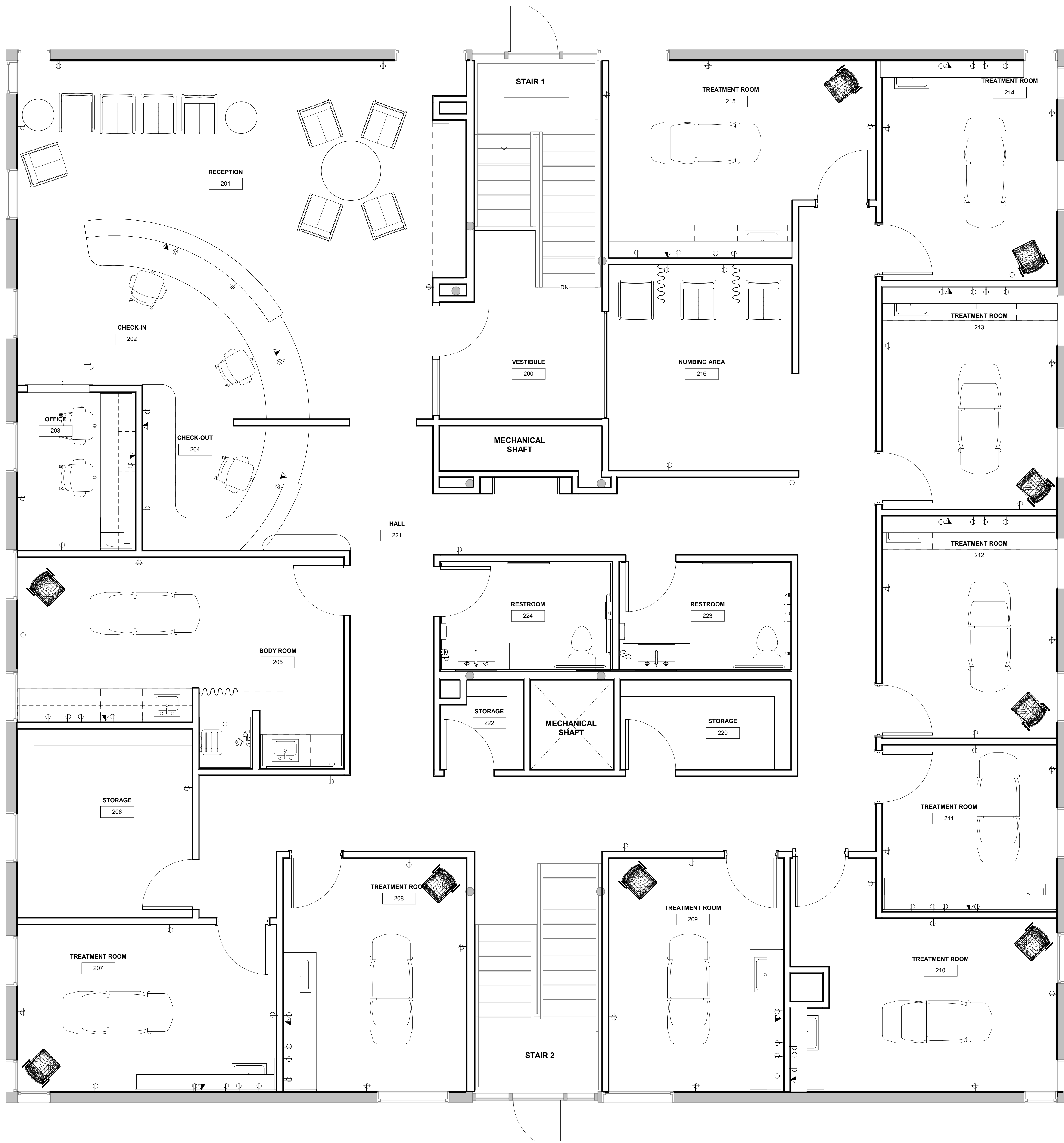
7090 E HAMPDEN AVE  
DENVER, CO 80224

Angel Aesthetics

SHEET NAME: <b>LEVEL 1 POWER &amp; SIGNAL PLAN</b>	
ISSUE DATE: <b>1/13/2025</b>	ISSUED FOR: <b>CONSTRUCTION</b>
DESIGNED: <b>MH</b>	PROJECT NO: <b>2024.55</b>
QAQC: <b>DC</b>	SHEET NO: <b>1600</b>
SCALE: <b>As indicated</b>	

① LEVEL 1 - POWER & SIGNAL PLAN  
3/8" = 1'-0"

1/15/2025 11:12:26 AM



**POWER & SIGNAL LEGEND**

- Ⓝ NEW 110V. DUPLEX RECEPTACLE, MOUNTED VERTICALLY AT +18" A.F.F., U.N.O.
- Ⓞ EXISTING DUPLEX
- Ⓝ NEW FLOOR DUPLEX
- Ⓝ NEW 110V. QUADRUPLEX RECEPTACLE, MOUNTED VERTICALLY AT +18" A.F.F., U.N.O.
- Ⓞ EXISTING QUADRUPLEX
- Ⓞ NEW PHONE/ DATA OUTLET
- Ⓞ EXISTING PHONE/ DATA

**STATEMENT OF QUALIFICATIONS**

In accordance with C.R.S. 12-26-303 (b)(3)(D) I hereby certify that I meet the education and experience requirements of said law and have subsequently passed the qualification examination promulgated by the National Council for Interior Design Qualification.

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 I currently hold professional liability coverage:  
 Insurance carrier: Sentinel Hartford Fire Insurers  
 Policy number: 160019682, 19038  
Rebecca Brennan 1/13/2025  
 Qualified Interior Designer's Signature Date

**REVISIONS**

NO	DESCRIPTION	DATE

CONSULTANT: \_\_\_\_\_ CONSULTANT SEAL: \_\_\_\_\_

CONSULTANT PROJECT NO.: \_\_\_\_\_

**P&S KEYNOTES**

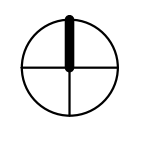
**ANGEL AESTHETICS**

7090 E HAMPDEN AVE  
 DENVER, CO 80224



SHEET NAME: <b>LEVEL 2 POWER &amp; SIGNAL PLAN</b>	
ISSUE DATE: <b>1/13/2025</b>	ISSUED FOR: <b>CONSTRUCTION</b>
DESIGNED: <b>MH</b>	PROJECT NO: <b>2024.55</b>
QA/QC: <b>DC</b>	SHEET NO: <b>1601</b>
SCALE: <b>As indicated</b>	

1 LEVEL 2 - POWER & SIGNAL PLAN  
 3/8" = 1'-0"



**MILLWORK NOTES**

1. CABINET PULLS TO BE DOUG MOCKETT DP3C MATTE BLACK THROUGHOUT, TYP.
2. PROVIDE SOFT CLOSE HINGES AND DRAWER SLIDES AT ALL MILLWORK LOCATIONS

**STATEMENT OF QUALIFICATIONS**

In accordance with C.R.S. 12-26-303 (b)(2)(1) I hereby certify that I meet the education and experience requirements of said law. Subsequently passed, the qualification examination administered by the National Council for Interior Design Qualification.

NIDIQ Certificate Holder Name: Rebecca Brennan

NIDIQ Certificate Number: 158104

NIDIQ confirmation available at 202.721.0220 or online <https://nidsa.org/verification-verification/>

I currently hold professional liability coverage:

Insurance carrier: Sentinel Hartford Fire Insurers

Policy number: 160,19682, 19038

Rebecca Brennan 1/13/2025  
 Qualified Interior Designer's Signature Date

**REVISIONS**

NO	DESCRIPTION	DATE

CONSULTANT:                      CONSULTANT SEAL:

CONSULTANT PROJECT NO.:

**ANGEL AESTHETICS**

7090 E HAMPDEN AVE  
 DENVER, CO 80224



SHEET NAME:

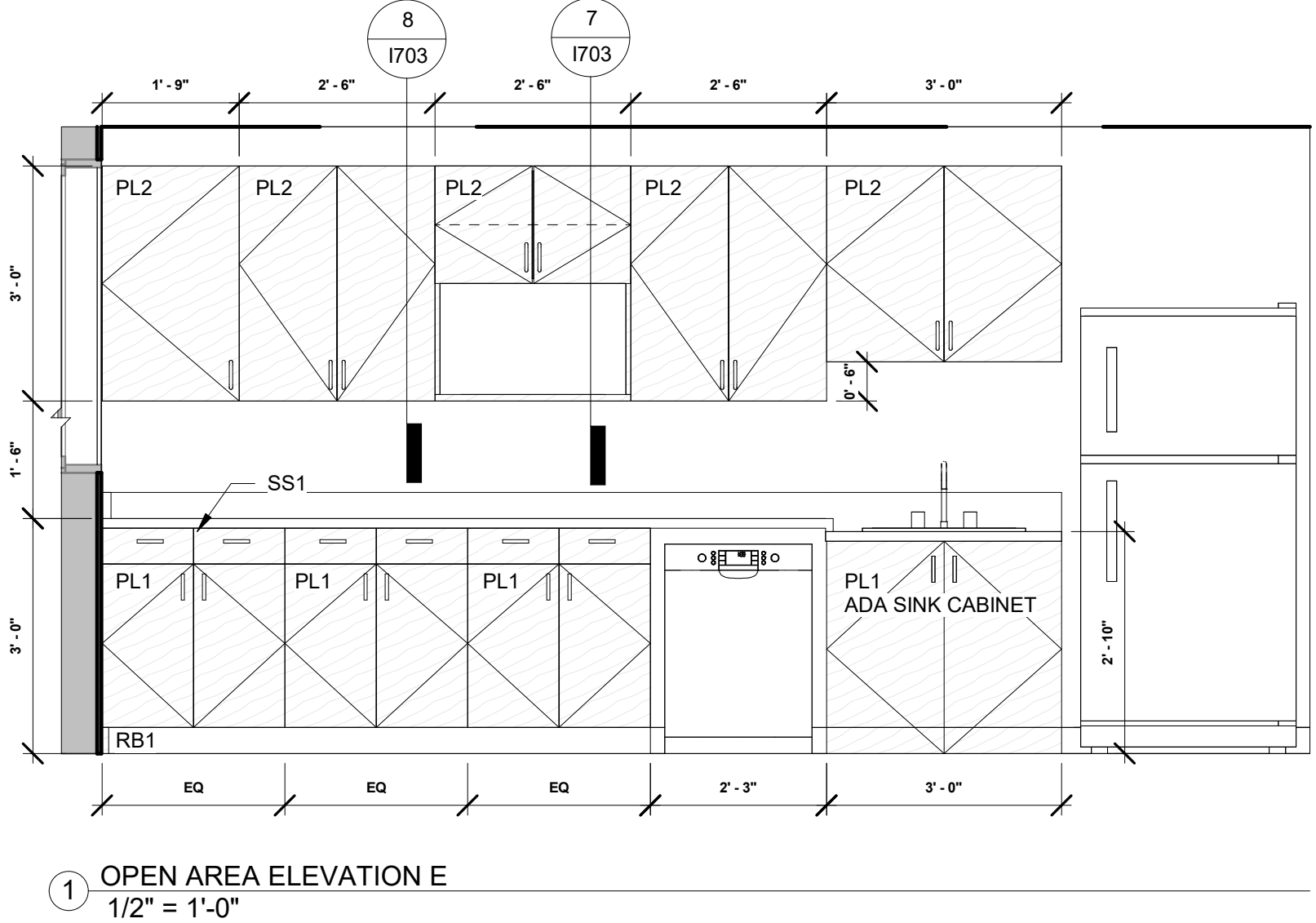
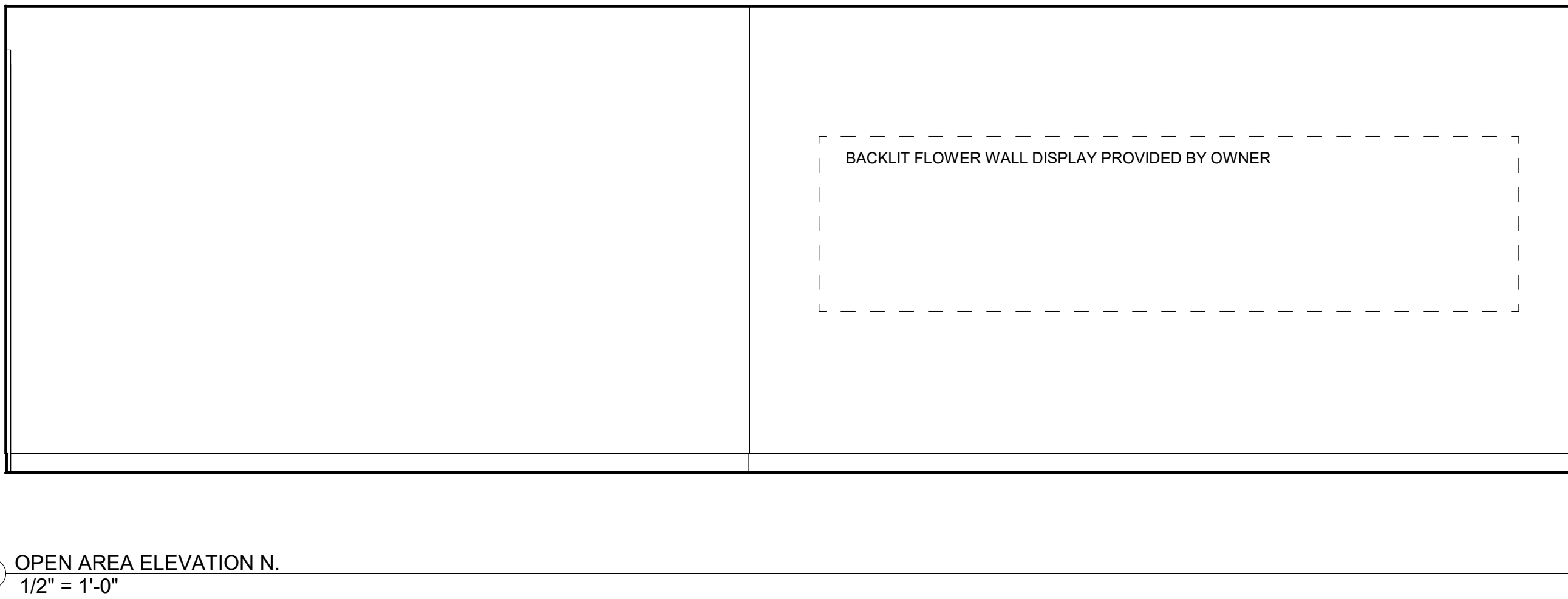
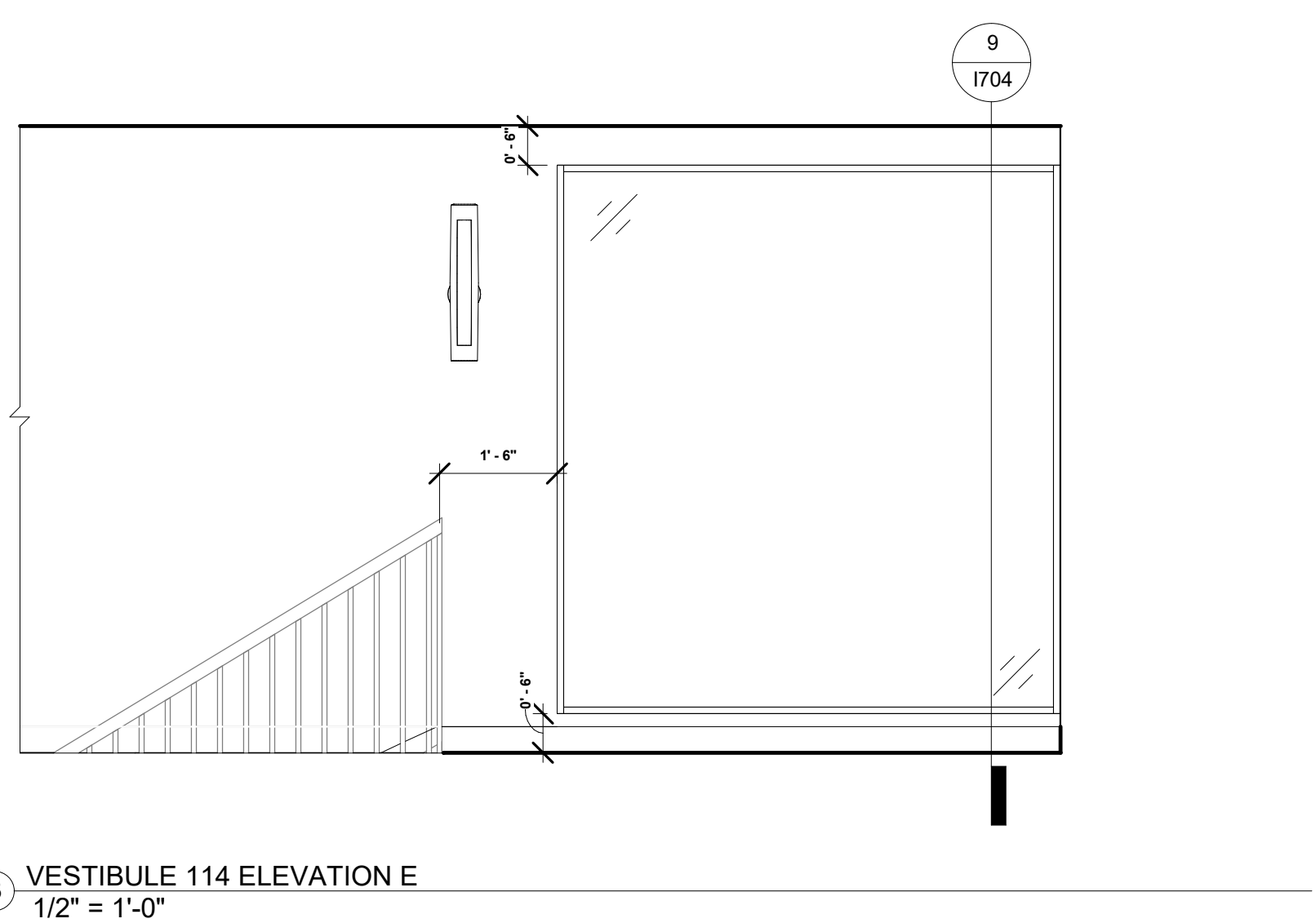
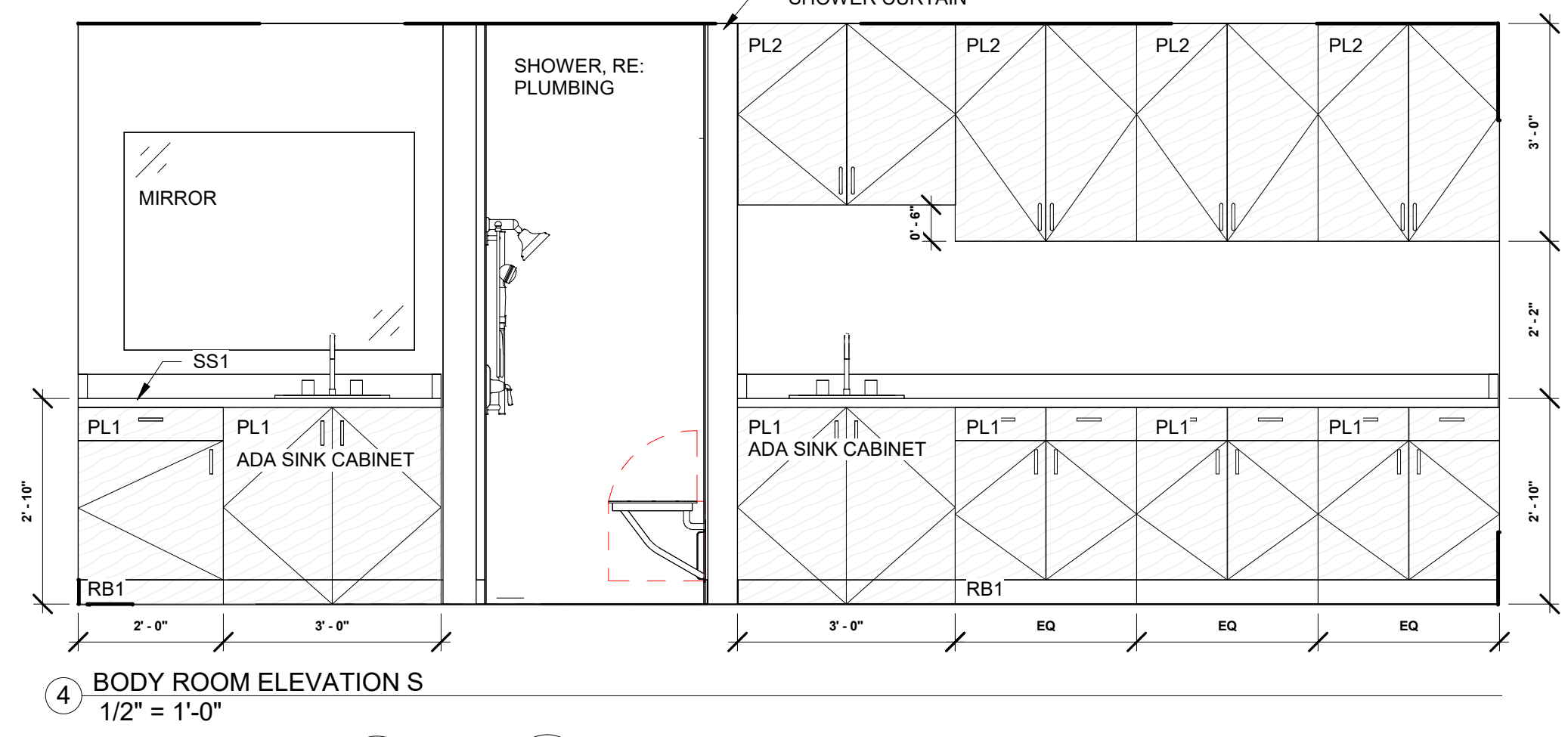
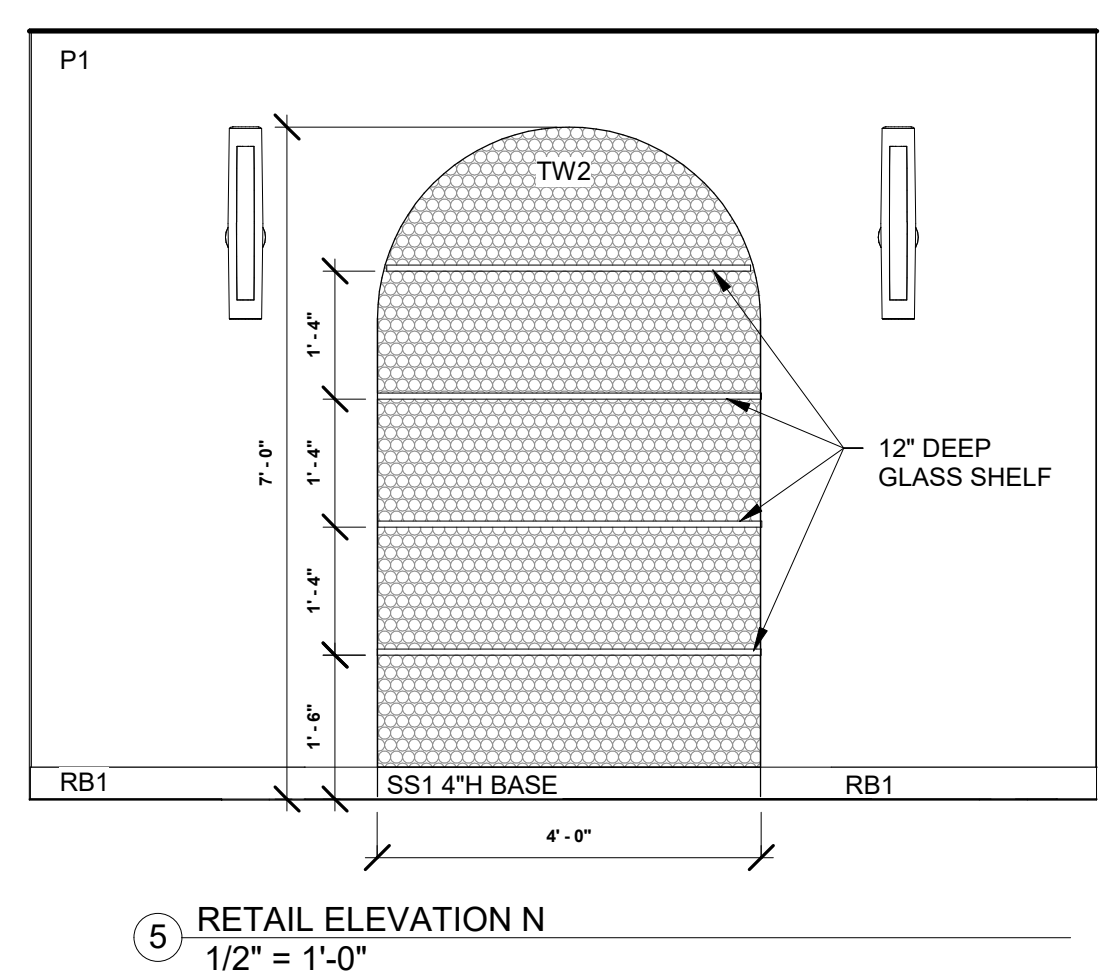
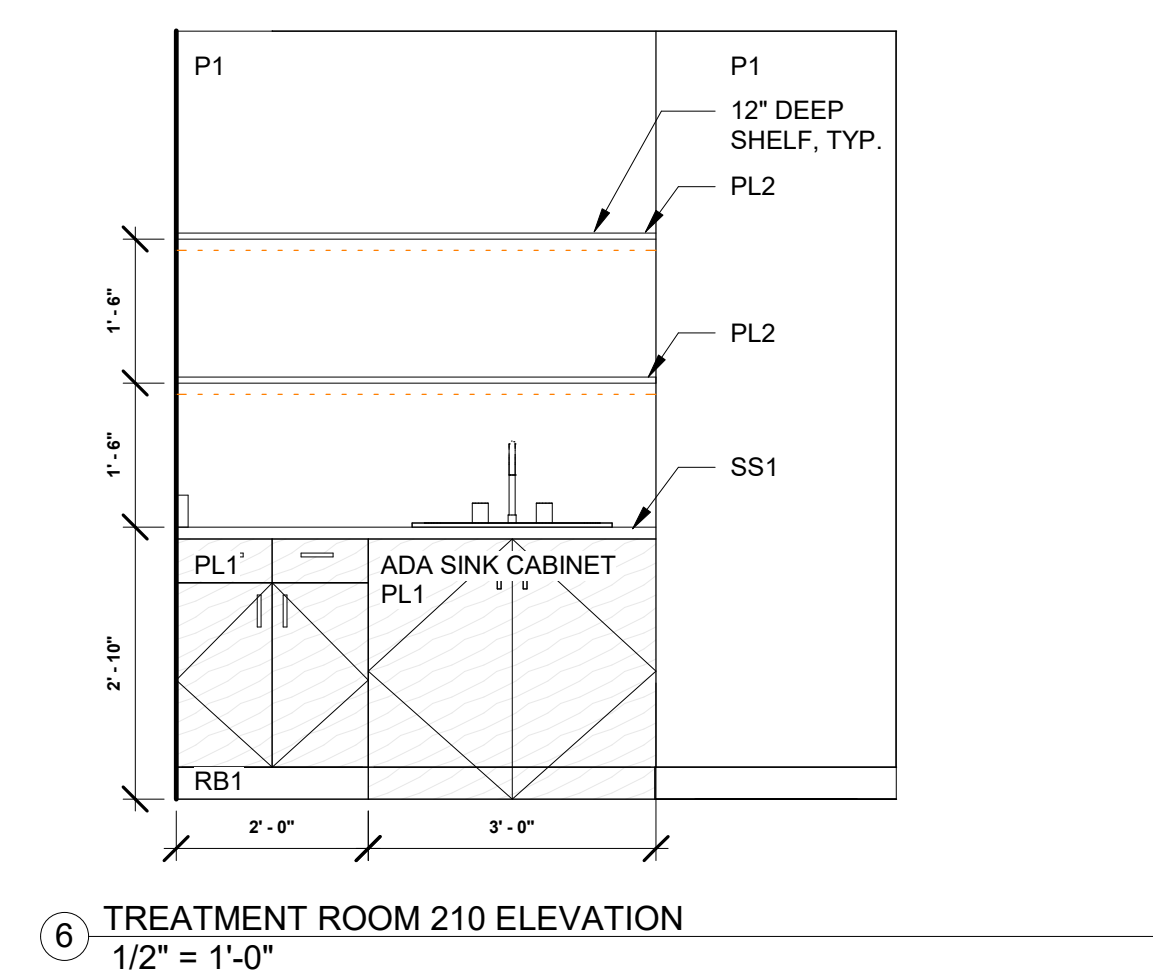
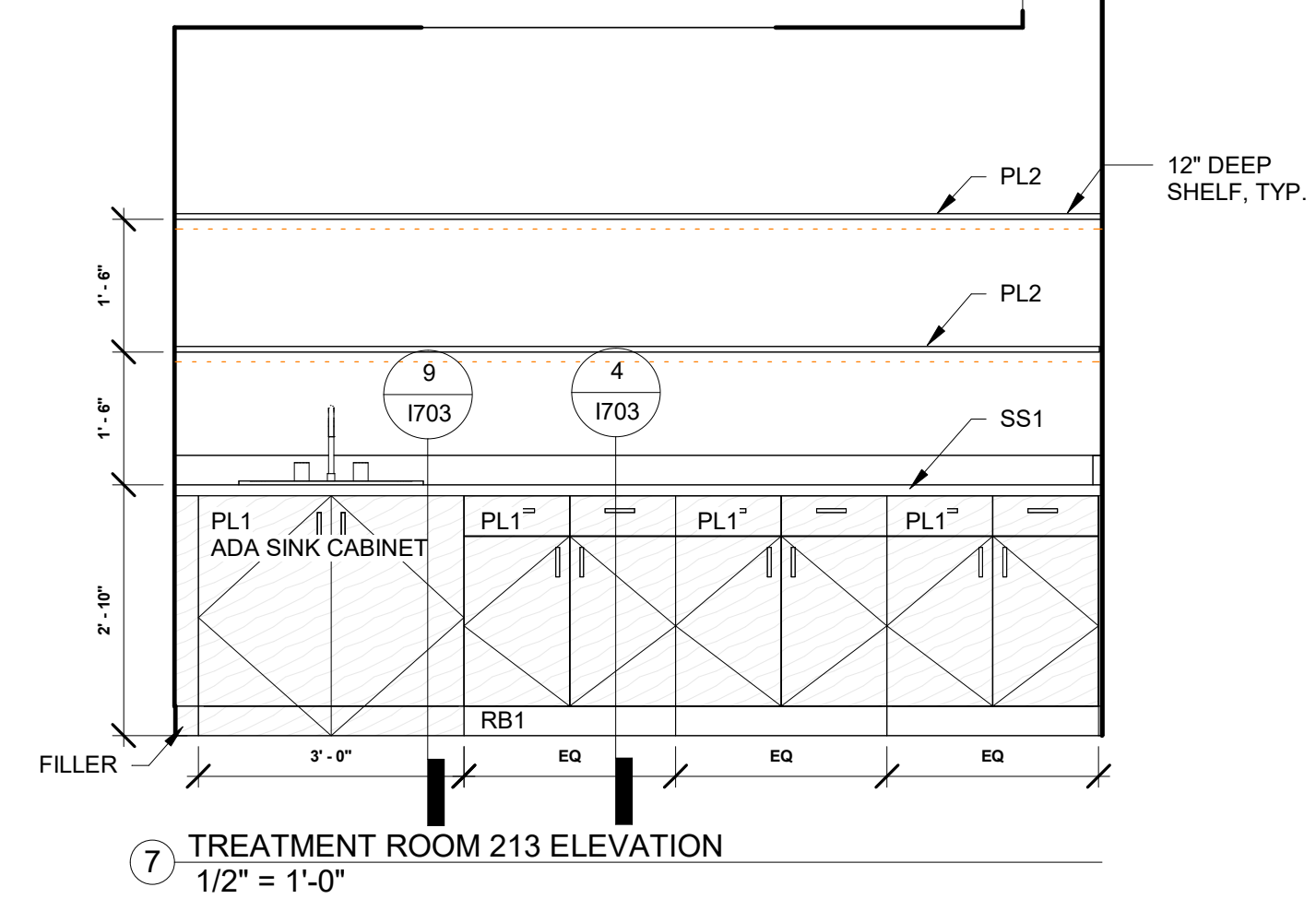
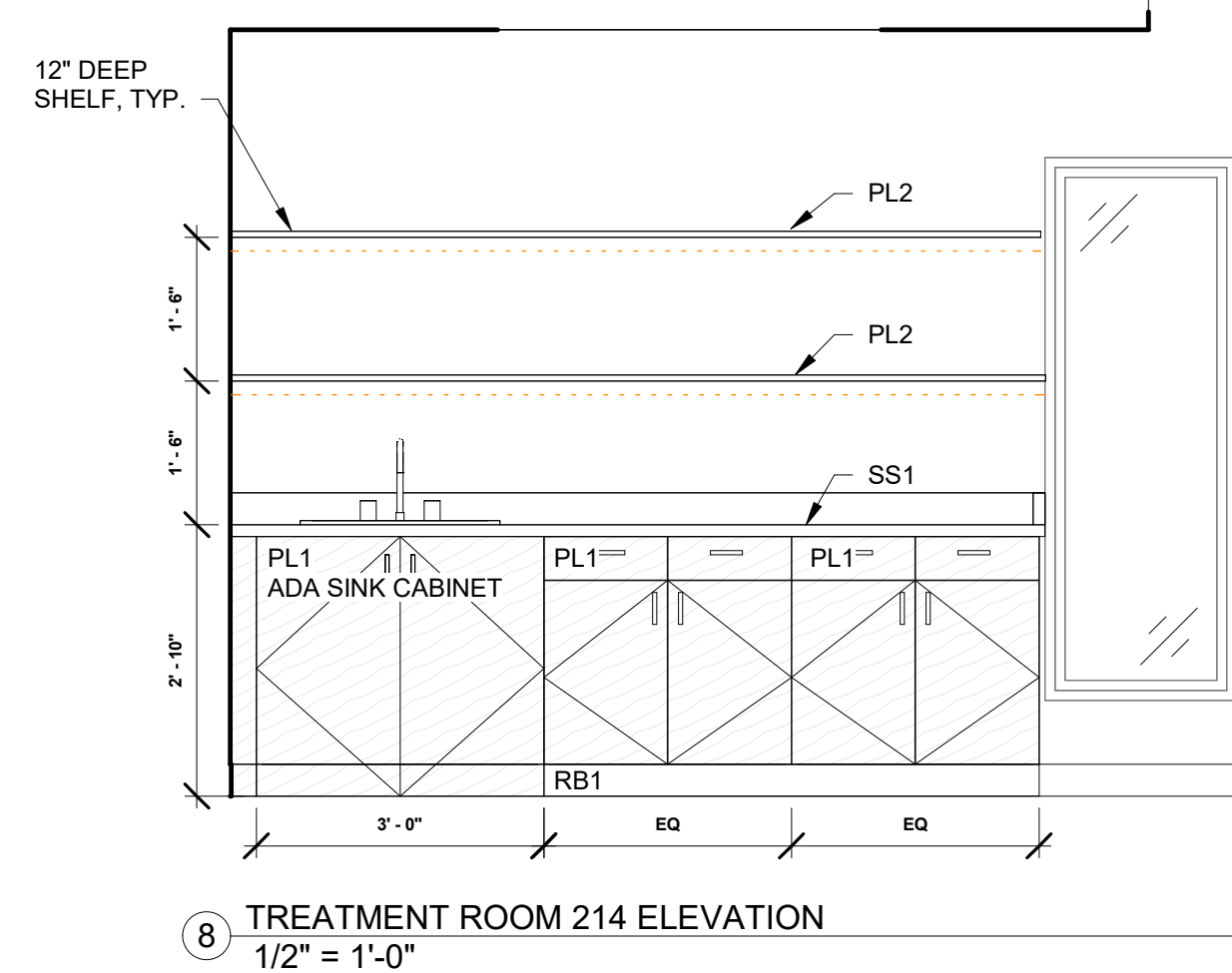
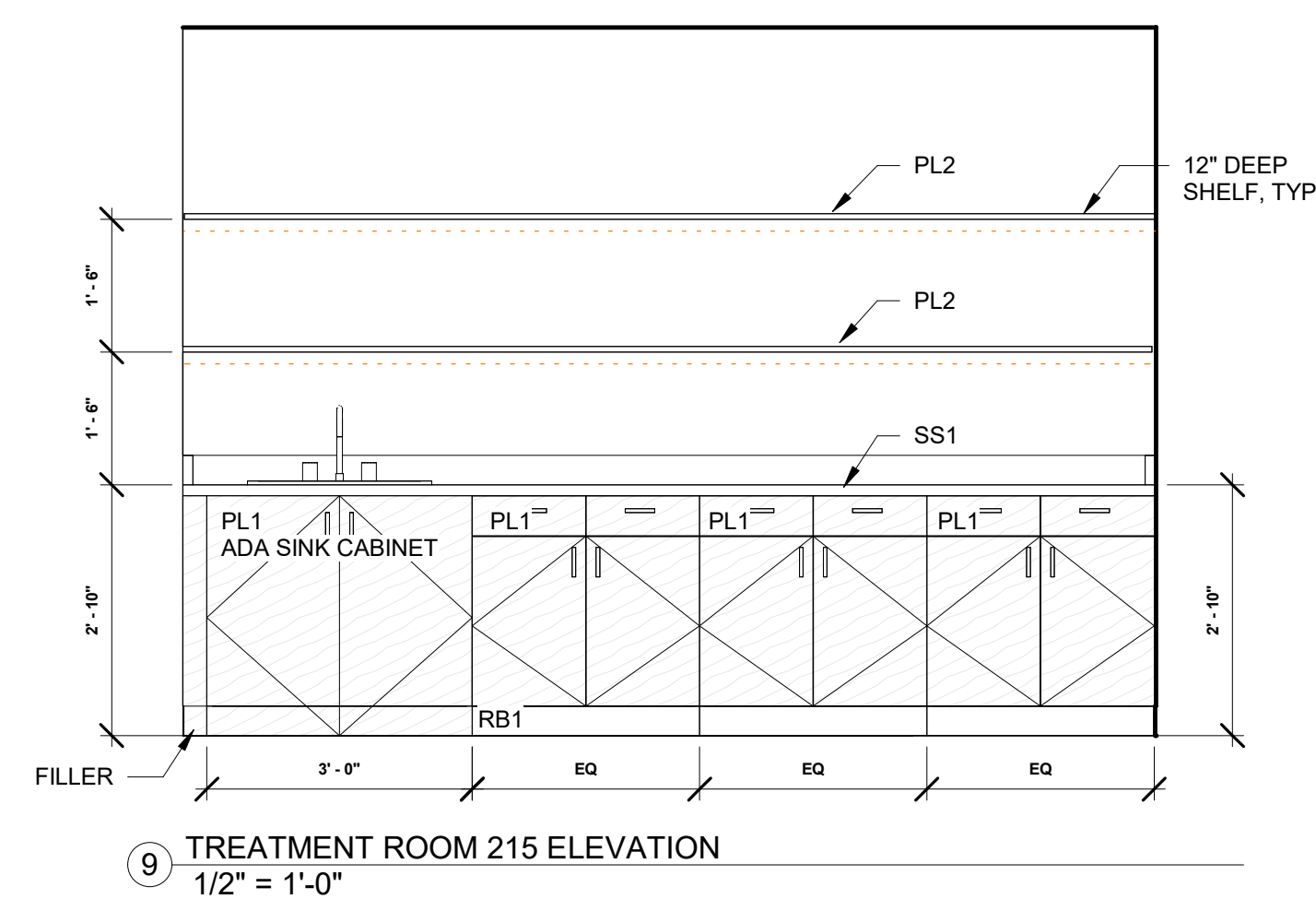
**ELEVATIONS**

ISSUE DATE: **1/13/2025**      ISSUED FOR: **CONSTRUCTION**

DESIGNED: **MH**      PROJECT NO: **2024.55**

QA/QC: **DC**      SHEET NO:

SCALE: **As indicated**      **1700**

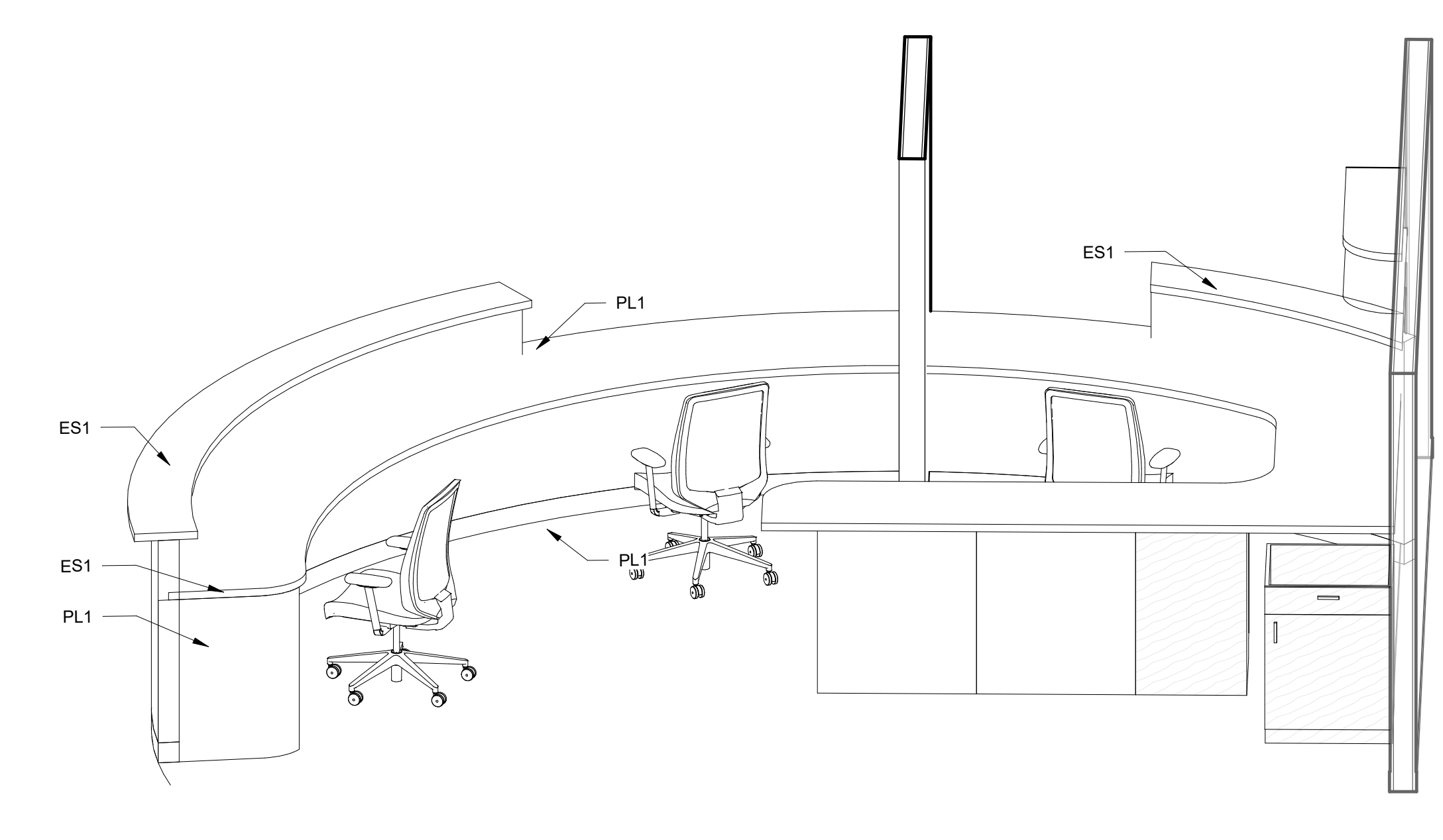


**STATEMENT OF QUALIFICATIONS**  
 In accordance with C.R.S. 12-26-303 (5)(c)(2), I hereby certify that I meet the education and experience requirements of said law. Subsequently passed, the qualification examination promulgated by the National Council for Interior Design Qualification.  
 NCIDQ Certificate Holder Name: Rebecca Brennan  
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Rebecca Brennan 1/13/2025  
 Qualified Interior Designer's Signature Date

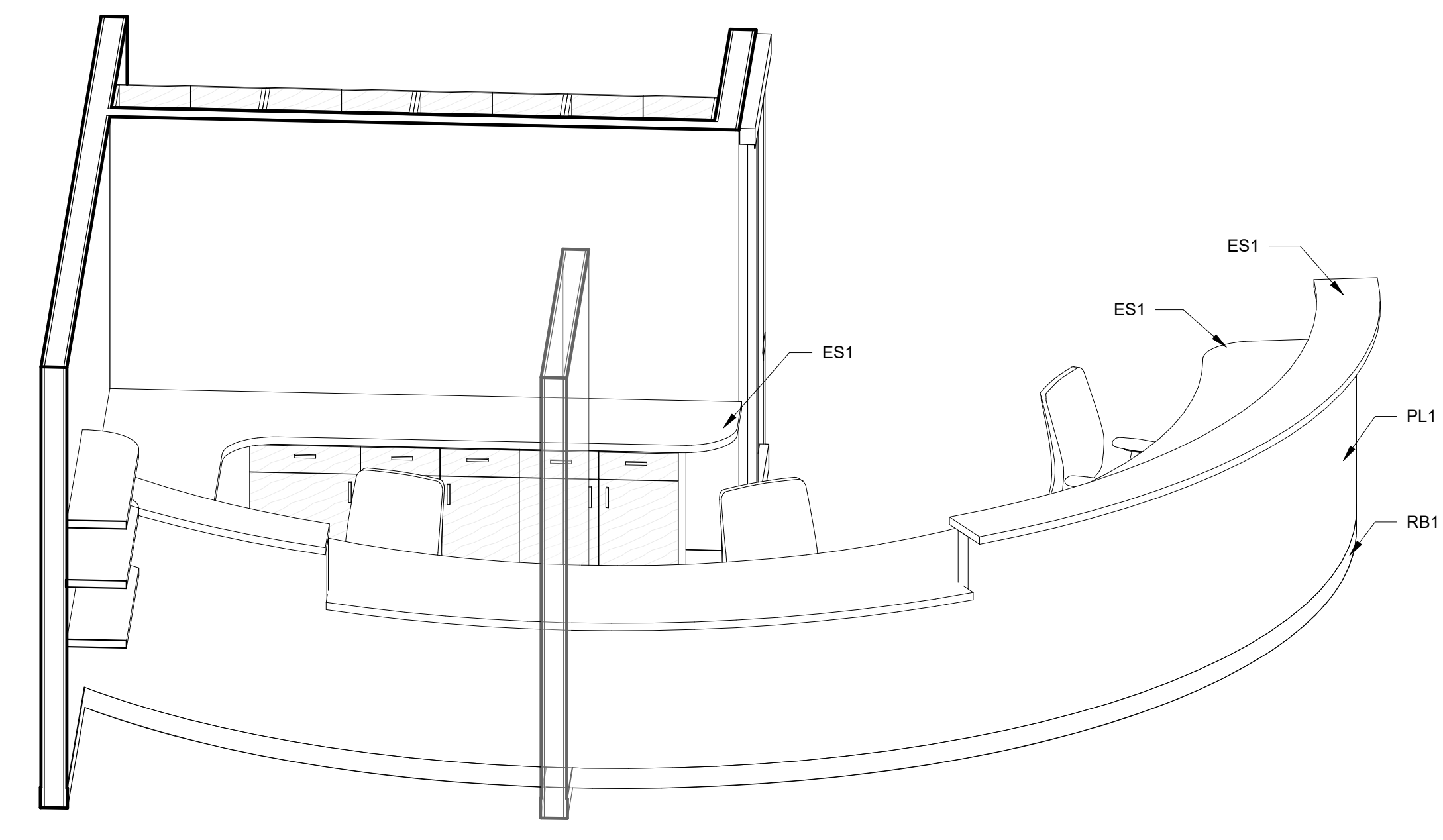
REVISIONS		
NO	DESCRIPTION	DATE

CONSULTANT: \_\_\_\_\_ CONSULTANT SEAL: \_\_\_\_\_

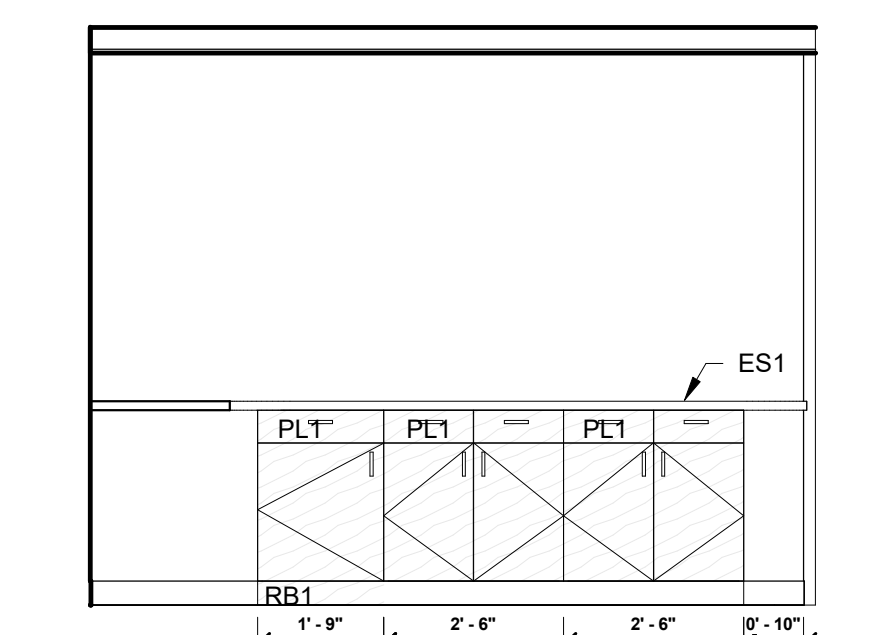
CONSULTANT PROJECT NO.: \_\_\_\_\_



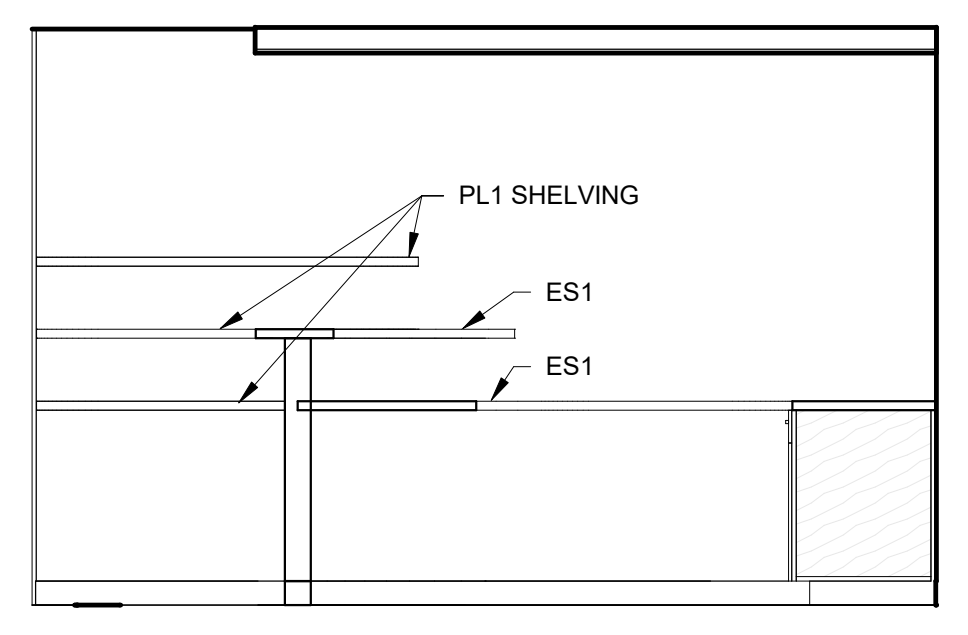
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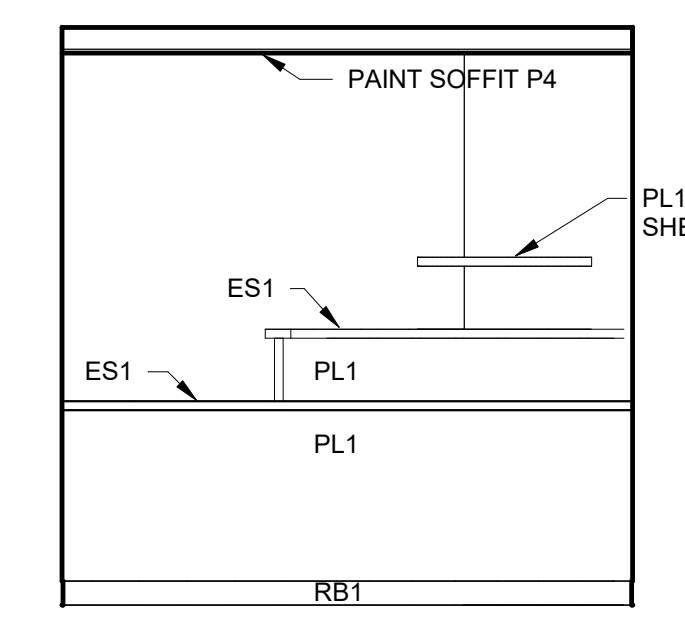
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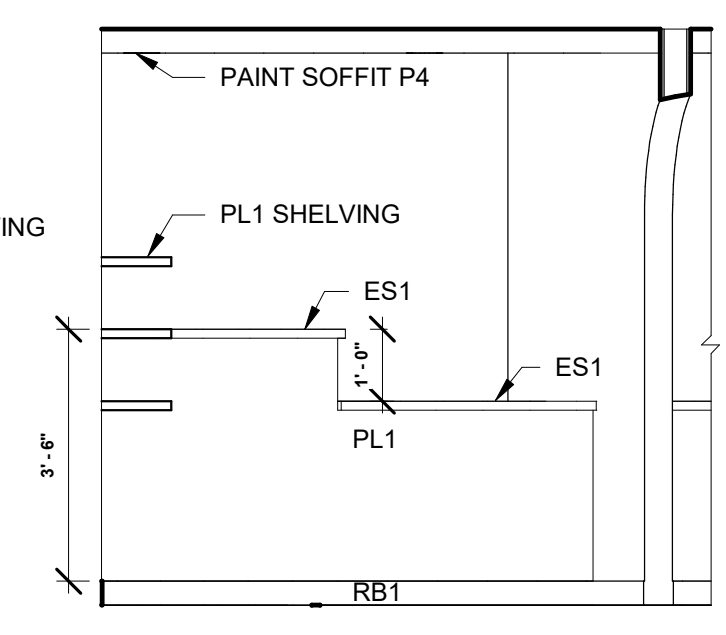
⑭ CHECK OUT ELEVATION W  
3/8" = 1'-0"



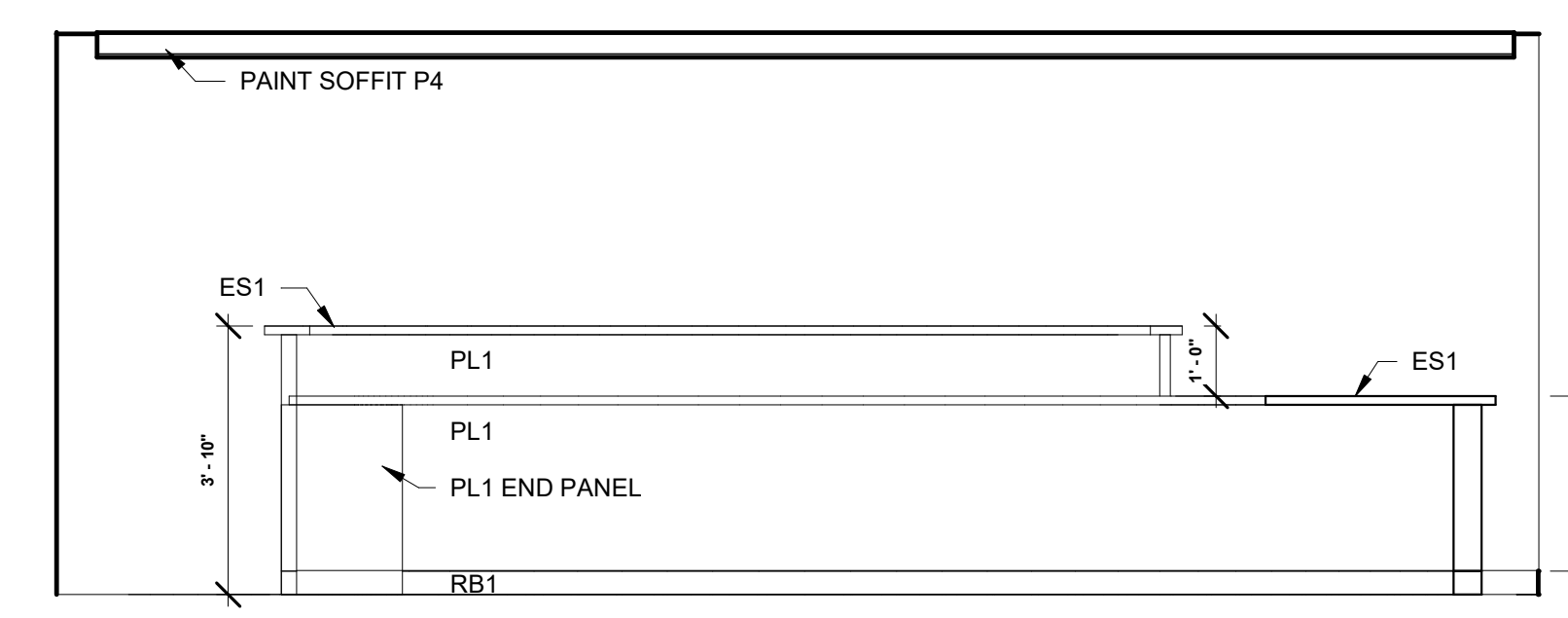
⑬ CHECK OUT ELEVATION S  
3/8" = 1'-0"



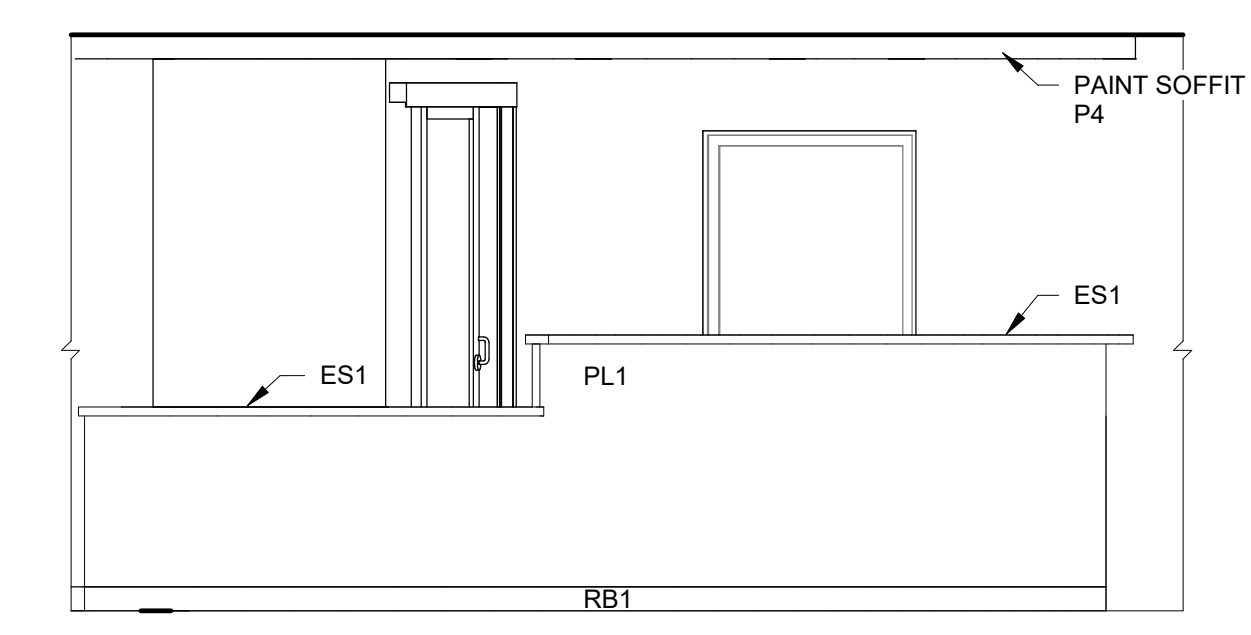
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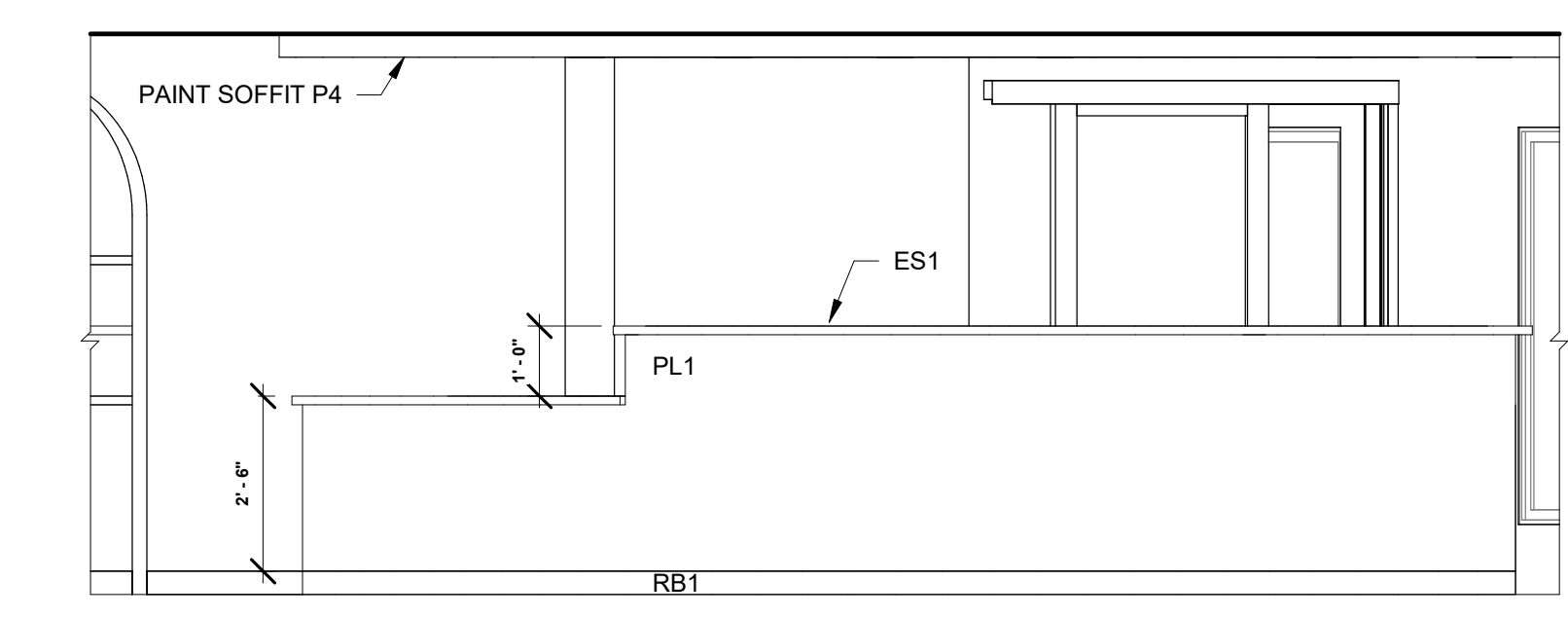
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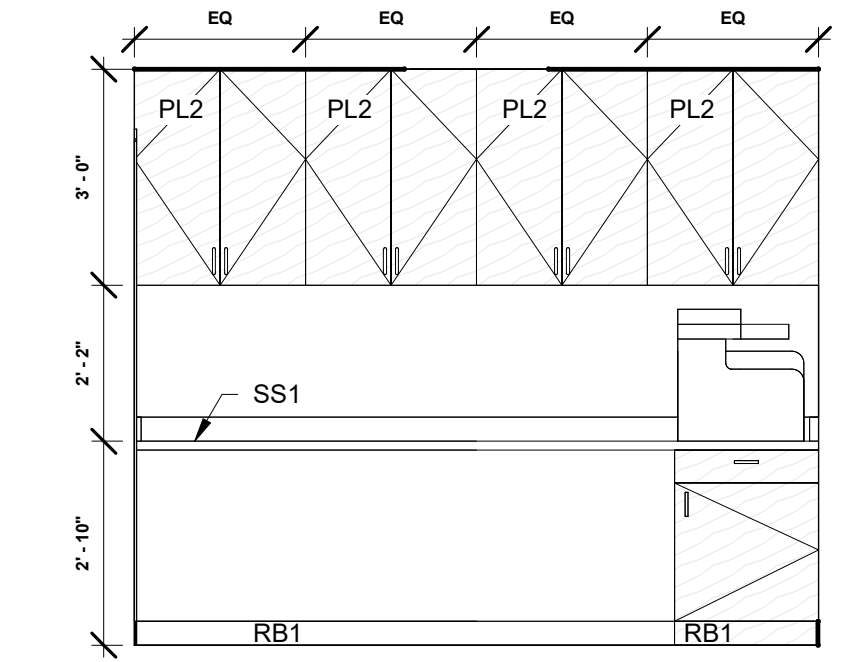
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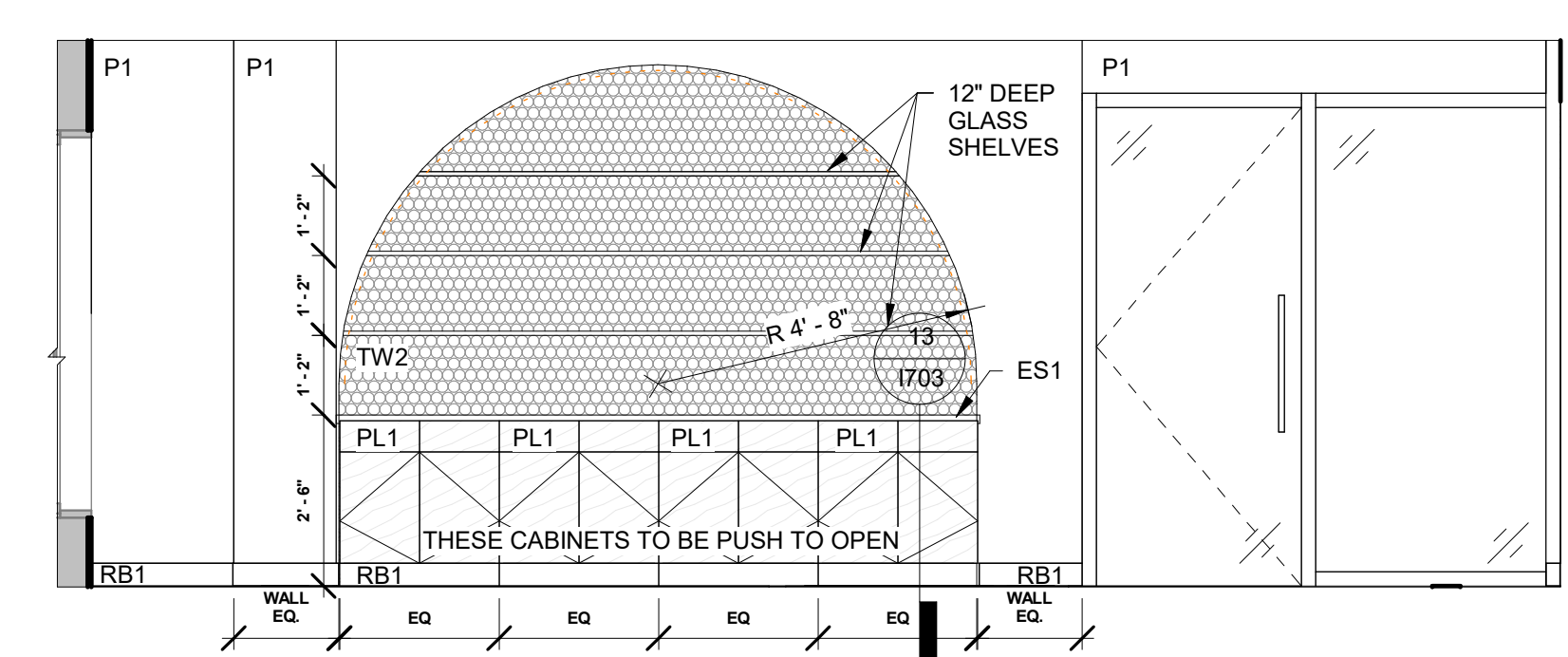
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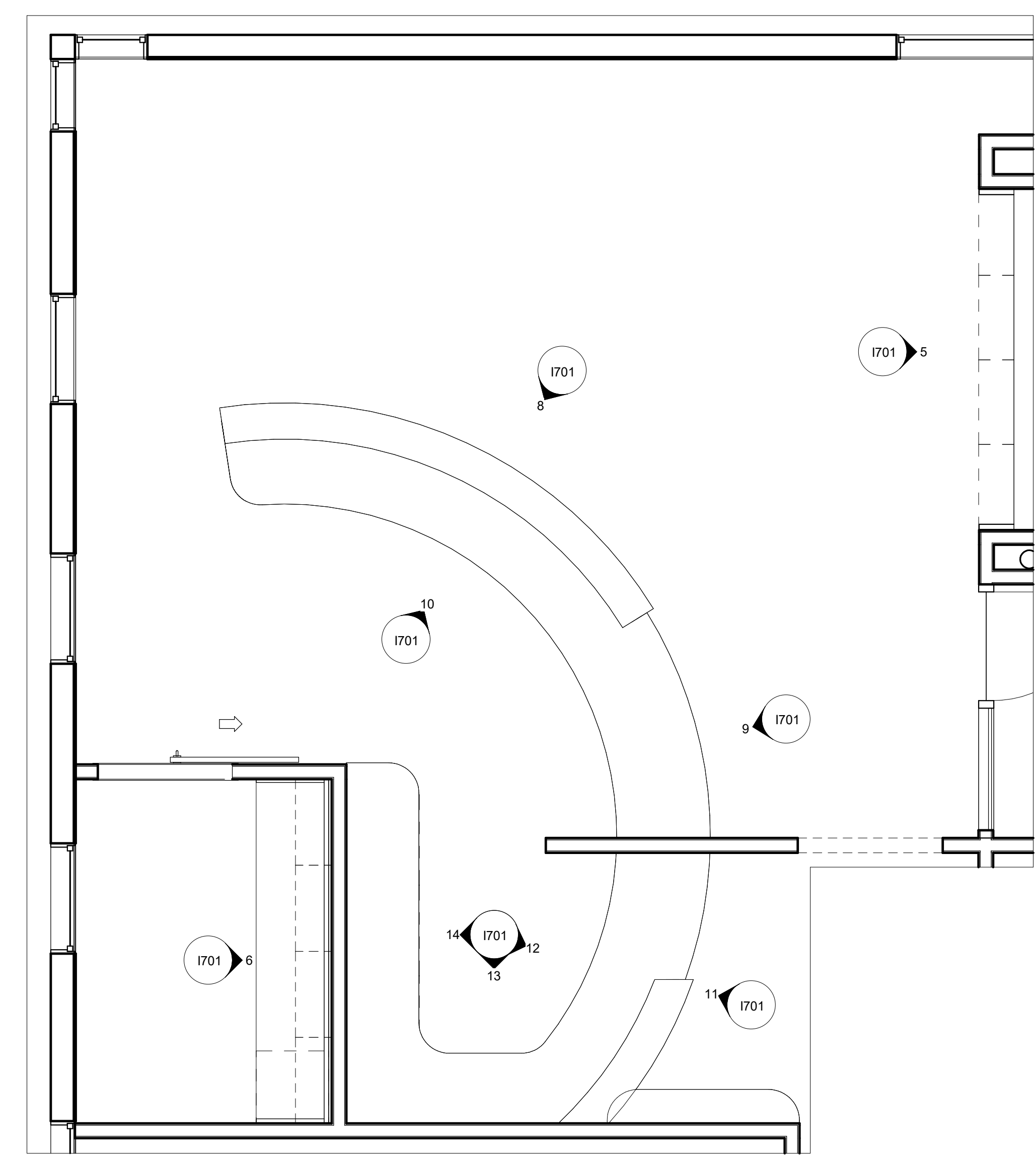
⑧ CHECK IN ELEVATION SW  
3/8" = 1'-0"



⑥ OFFICE 118 ELEVATION E  
3/8" = 1'-0"



⑤ RECEPTION RETAIL ELEVATION E  
3/8" = 1'-0"



① RECEPTION ENLARGED PLAN  
3/8" = 1'-0"

**ANGEL AESTHETICS**

7090 E HAMPDEN AVE  
DENVER, CO 80224



SHEET NAME:  
**ENLARGED PLAN & ELEVATIONS - RECEPTION**

ISSUE DATE: 1/13/2025	ISSUED FOR: CONSTRUCTION
DESIGNED: MH	PROJECT NO: 2024.55
QA/QC: DC	SHEET NO: 1701
SCALE: 3/8" = 1'-0"	





**STATEMENT OF QUALIFICATIONS**  
 In accordance with C.R.S. 12-26-303 (b)(2)(B) I hereby certify that I meet the education and experience requirements of said law. I have subsequently passed the qualification examination promulgated by the National Council for Interior Design Qualification.

NCIDQ Certificate Holder Name: Rebecca Brennan  
 NCIDQ Certificate Number: 158104  
 NCIDQ confirmation available at 202.721.0220 or online: [https://myncidq.com/certification\\_verification/](https://myncidq.com/certification_verification/)  
 I currently hold professional liability coverage:  
 Insurance carrier: Sentinel Hartford Fire Insurers  
 Policy number: 160,19682, 19038  
 Signature: Rebecca Brennan 1/13/2025  
 Qualified Interior Designer's Signature Date

REVISIONS		
NO	DESCRIPTION	DATE

CONSULTANT: \_\_\_\_\_ CONSULTANT SEAL: \_\_\_\_\_

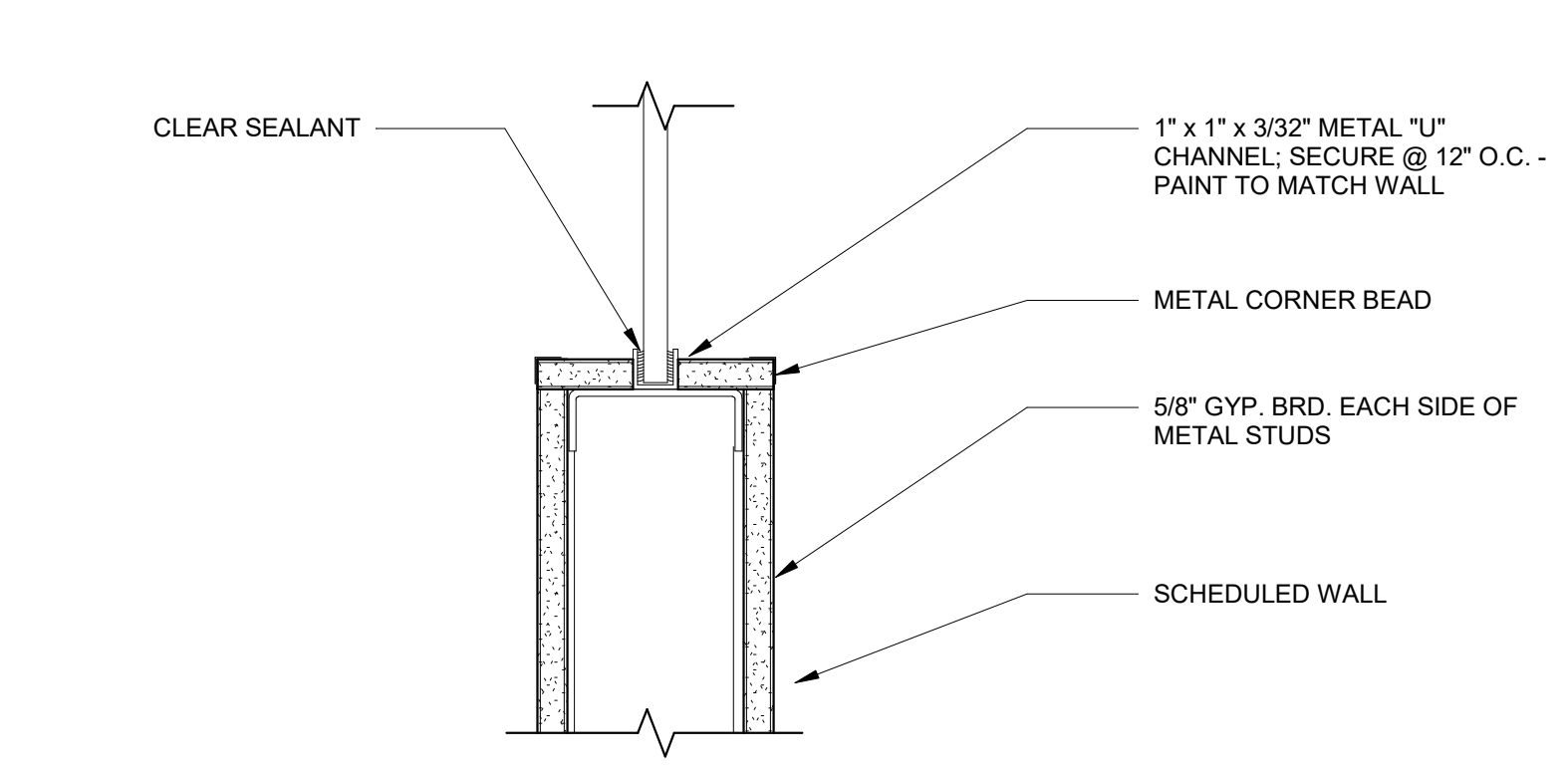
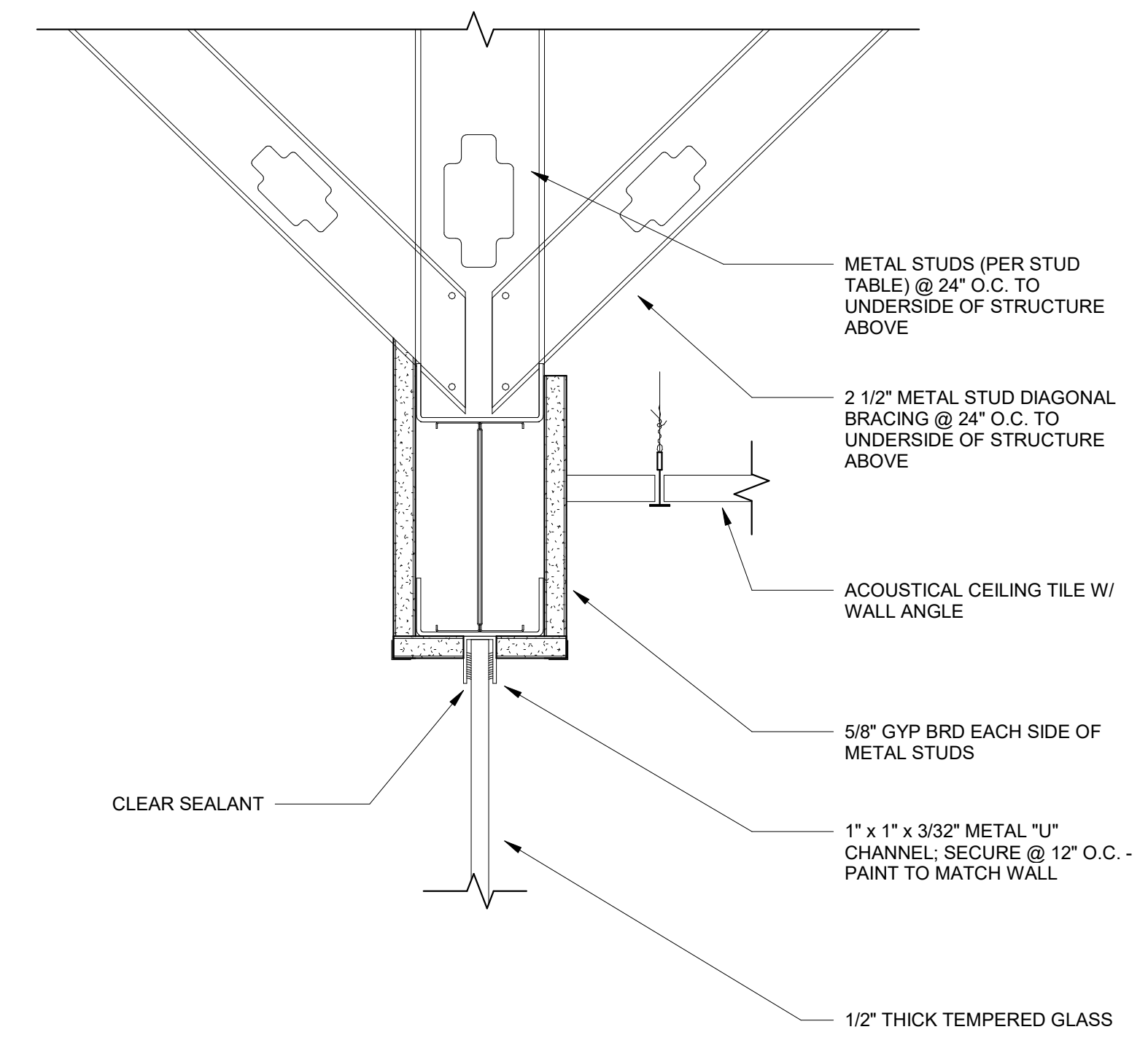
CONSULTANT PROJECT NO.: \_\_\_\_\_

**ANGEL AESTHETICS**  
 7090 E HAMDEN AVE  
 DENVER, CO 80224



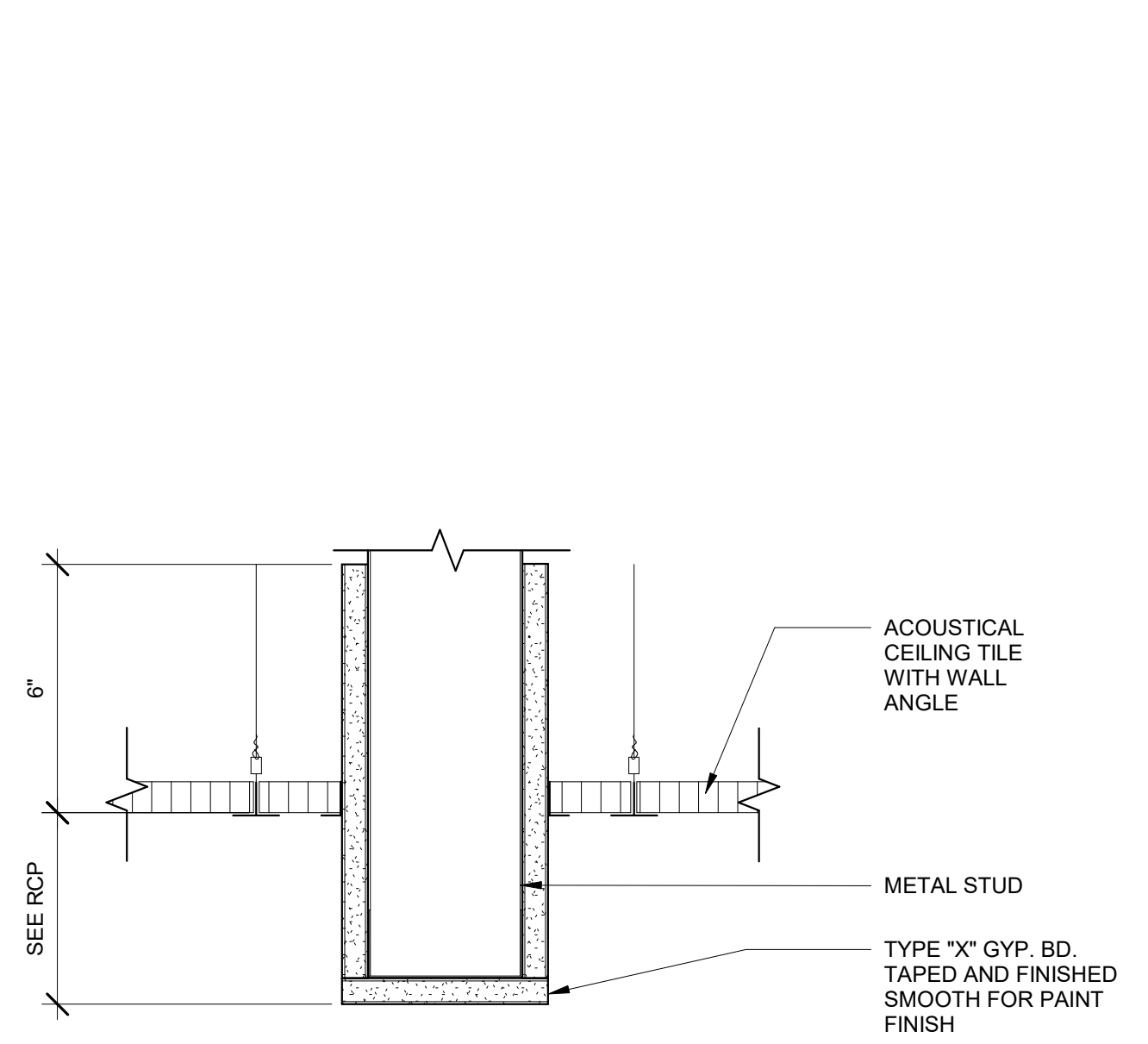
SHEET NAME: **WALL & CEILING DETAILS**

ISSUE DATE: <b>1/13/2025</b>	ISSUED FOR: <b>CONSTRUCTION</b>
DESIGNED: <b>MH</b>	PROJECT NO: <b>2024.55</b>
QA/QC: <b>DC</b>	SHEET NO: <b>1704</b>
SCALE: <b>As indicated</b>	

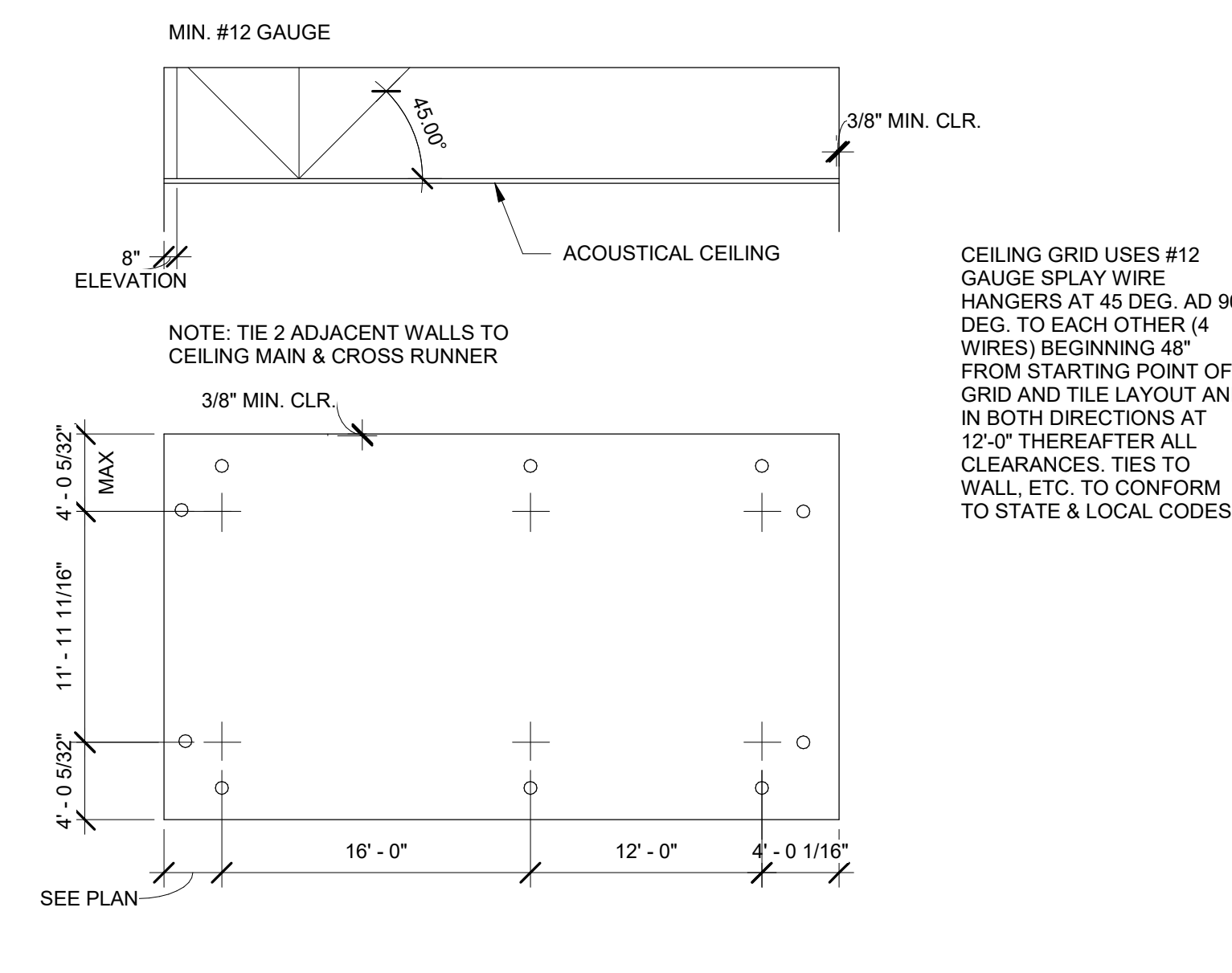


10 DOOR HEAD (JAMB SIM.)  
3\"/>

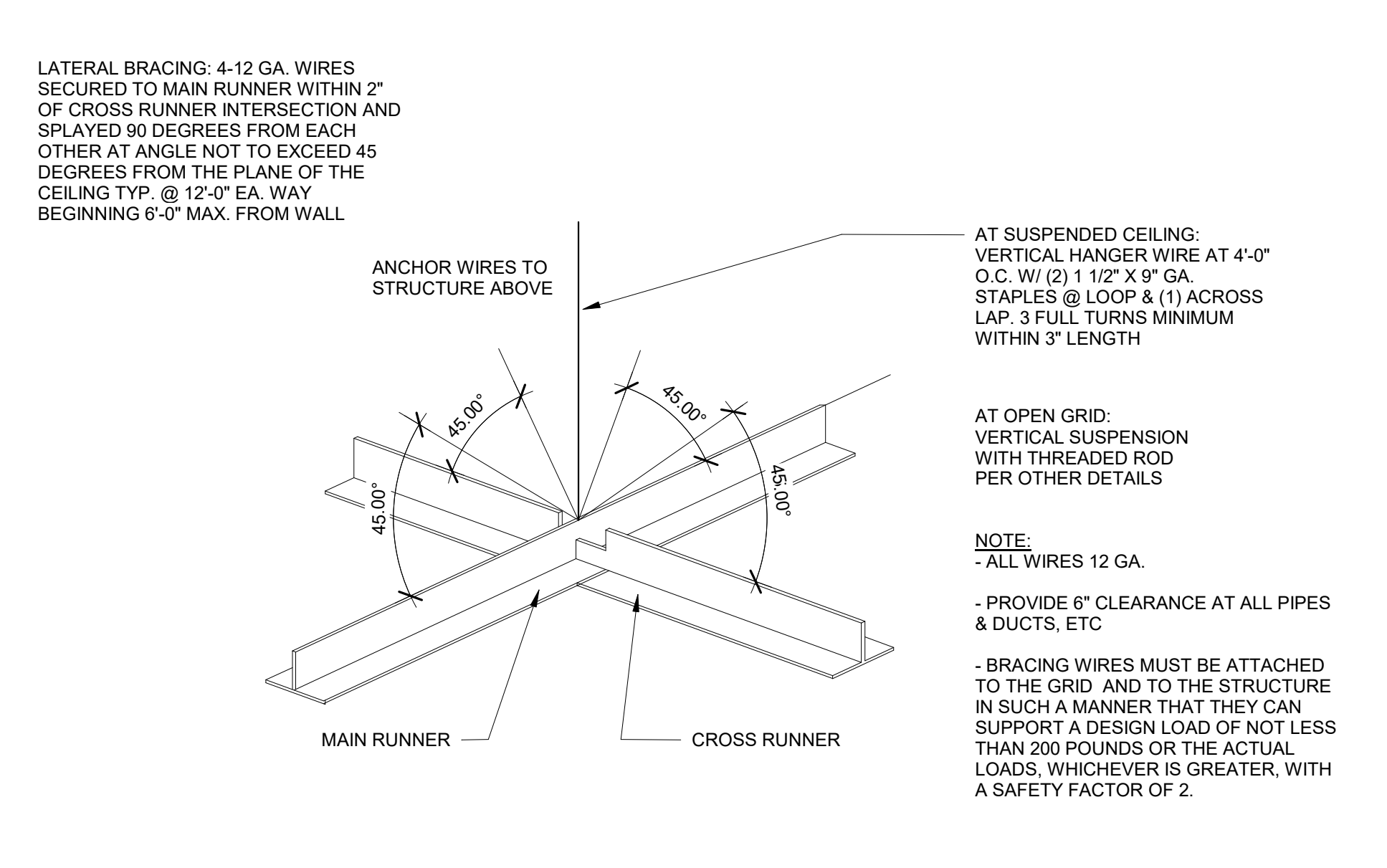
9 CLEARESTORY DETAIL  
3\"/>



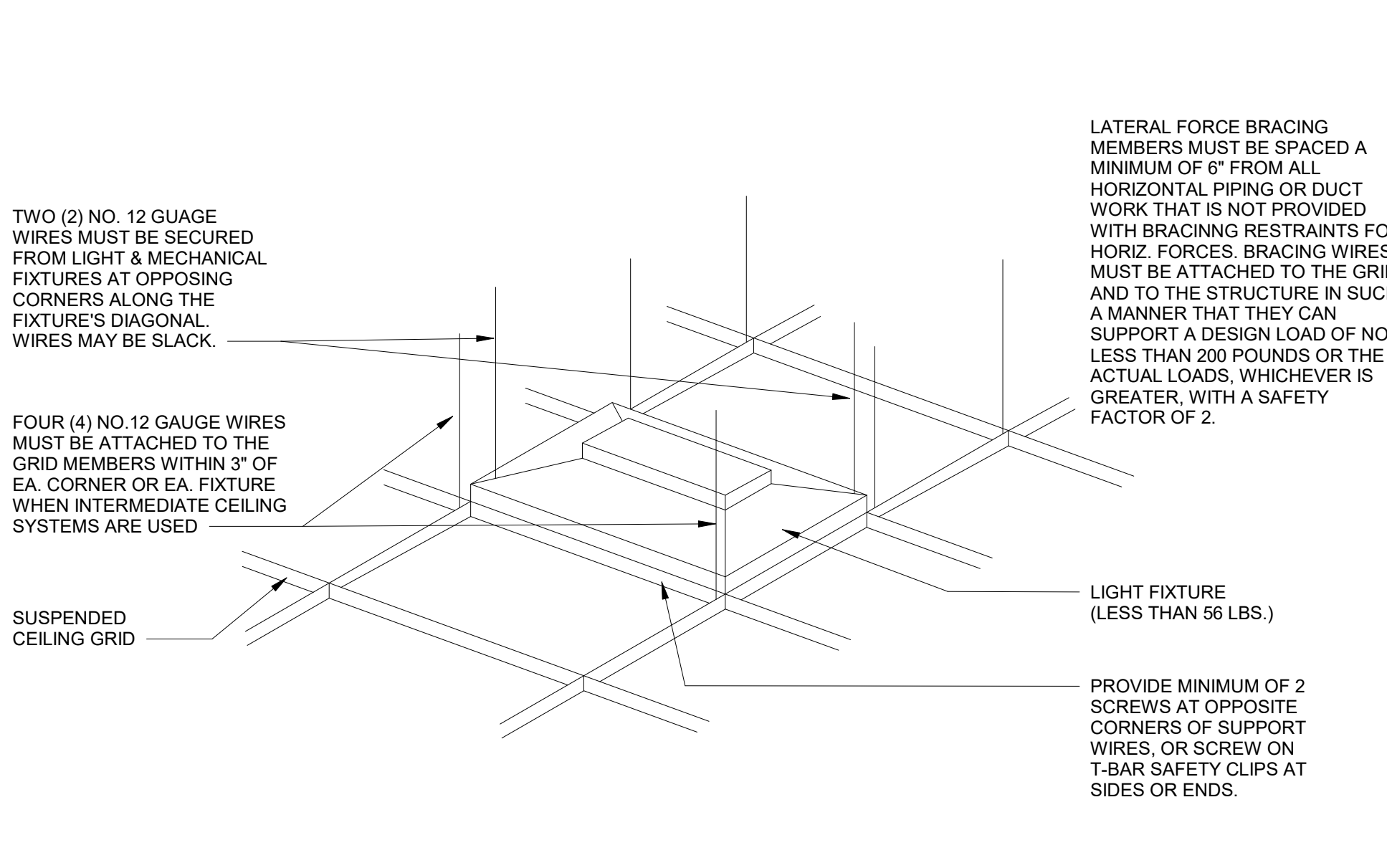
8 CEILING HEADER TRANSITION  
3\"/>



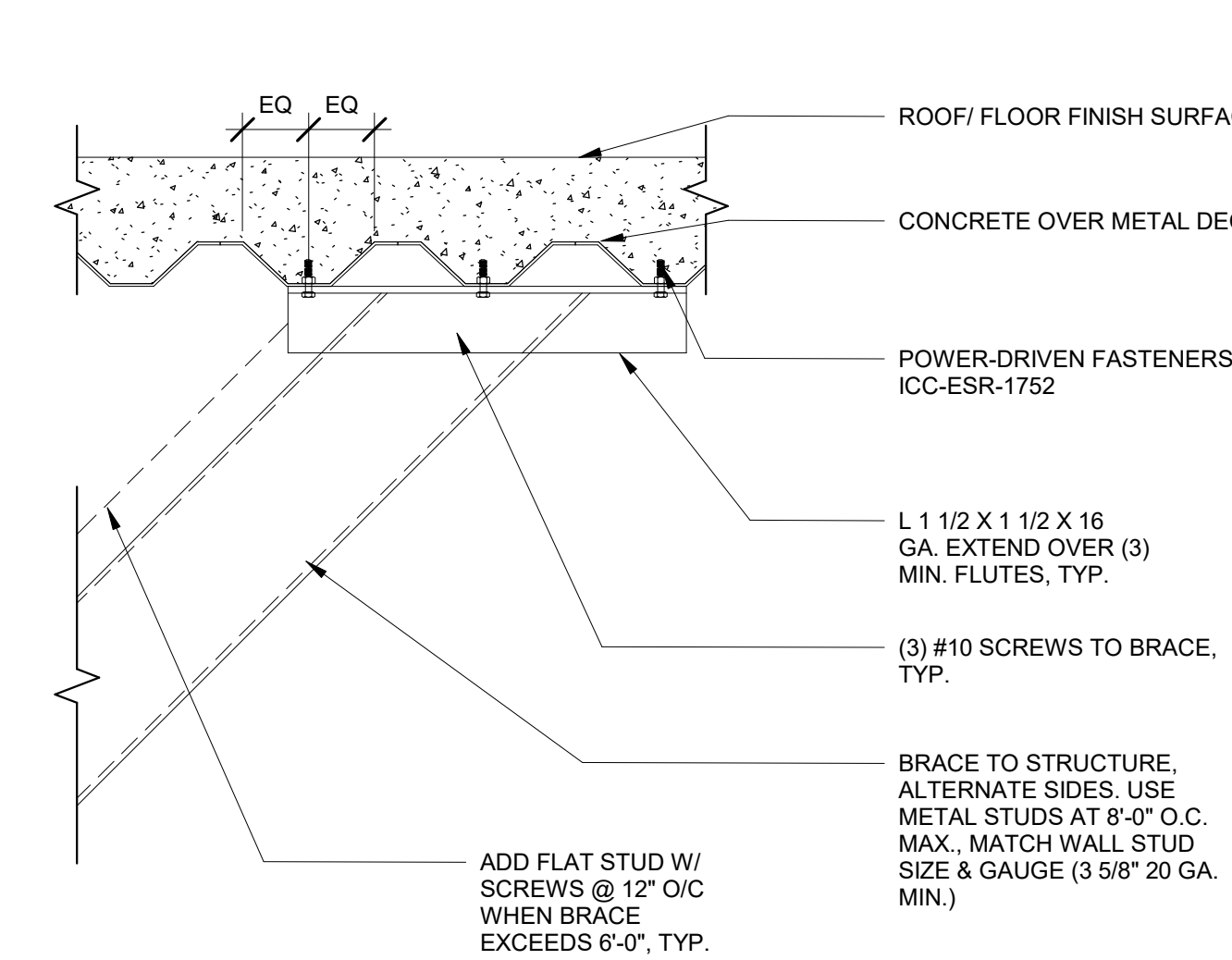
7 SUSPENDED CEILING GRID  
1/8\"/>



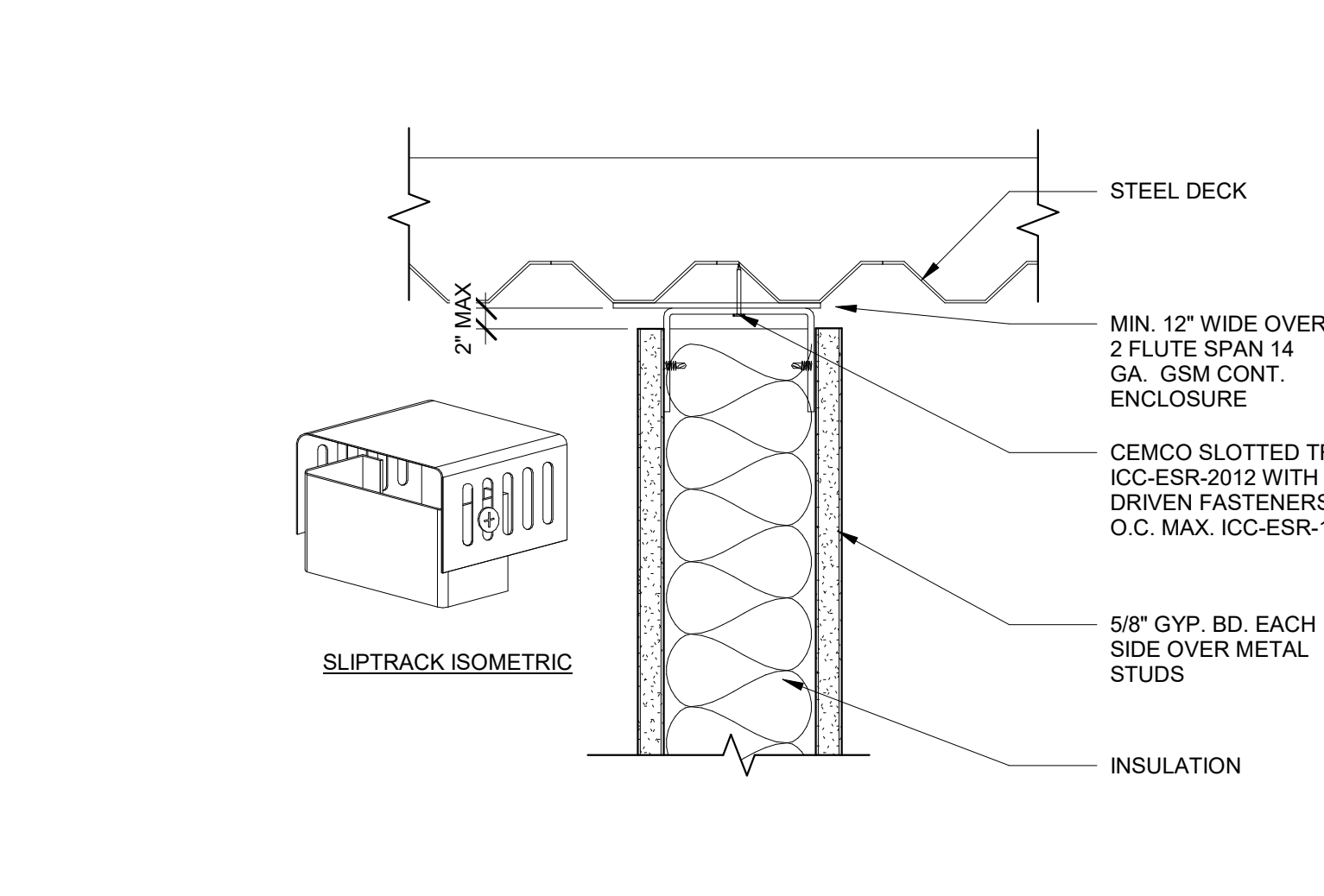
6 SUSPENDED ACOUSTICAL CEILING  
1\"/>



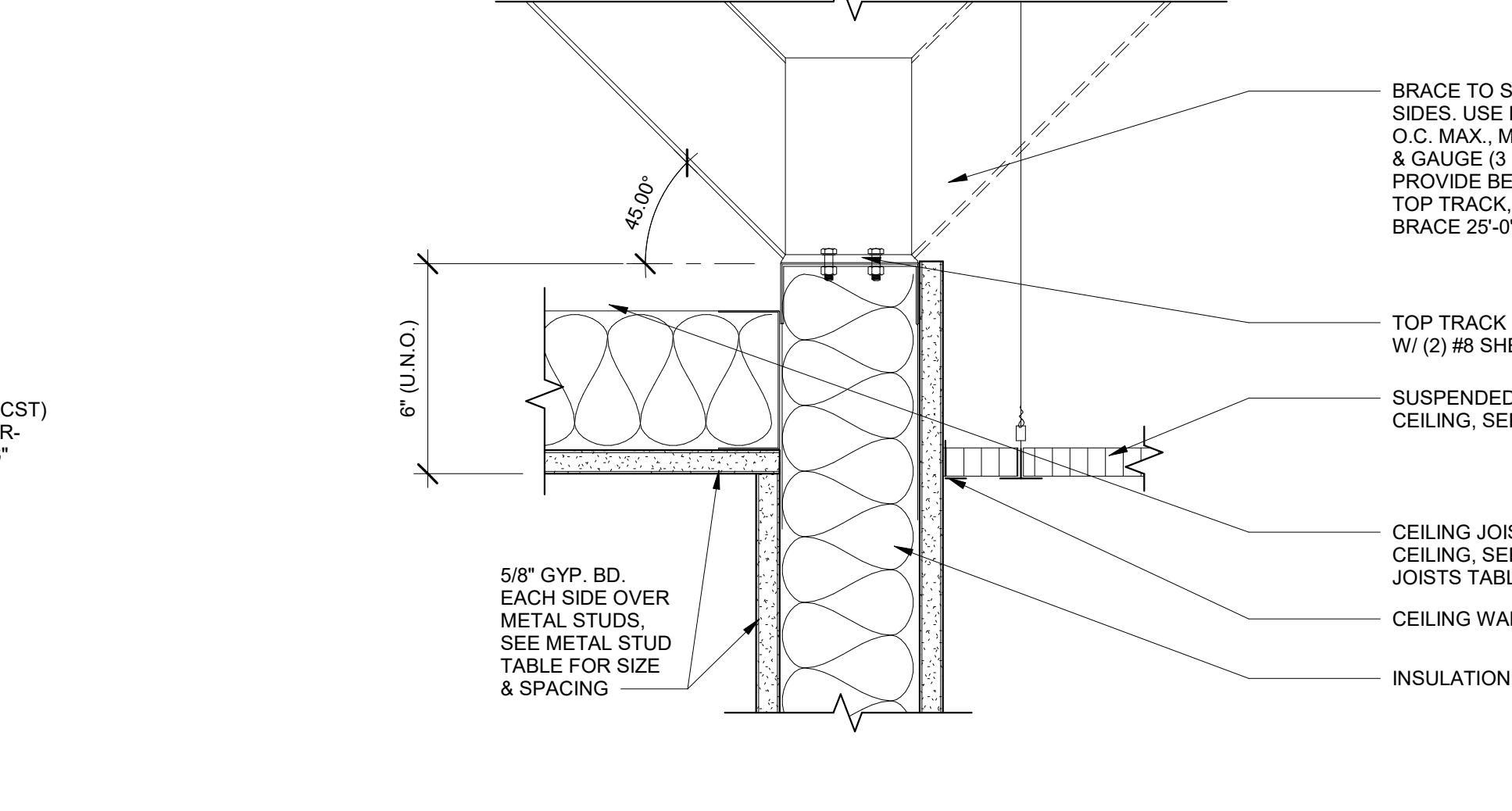
5 LIGHT FIXTURE @ SUSPENDED CEILING  
3/16\"/>



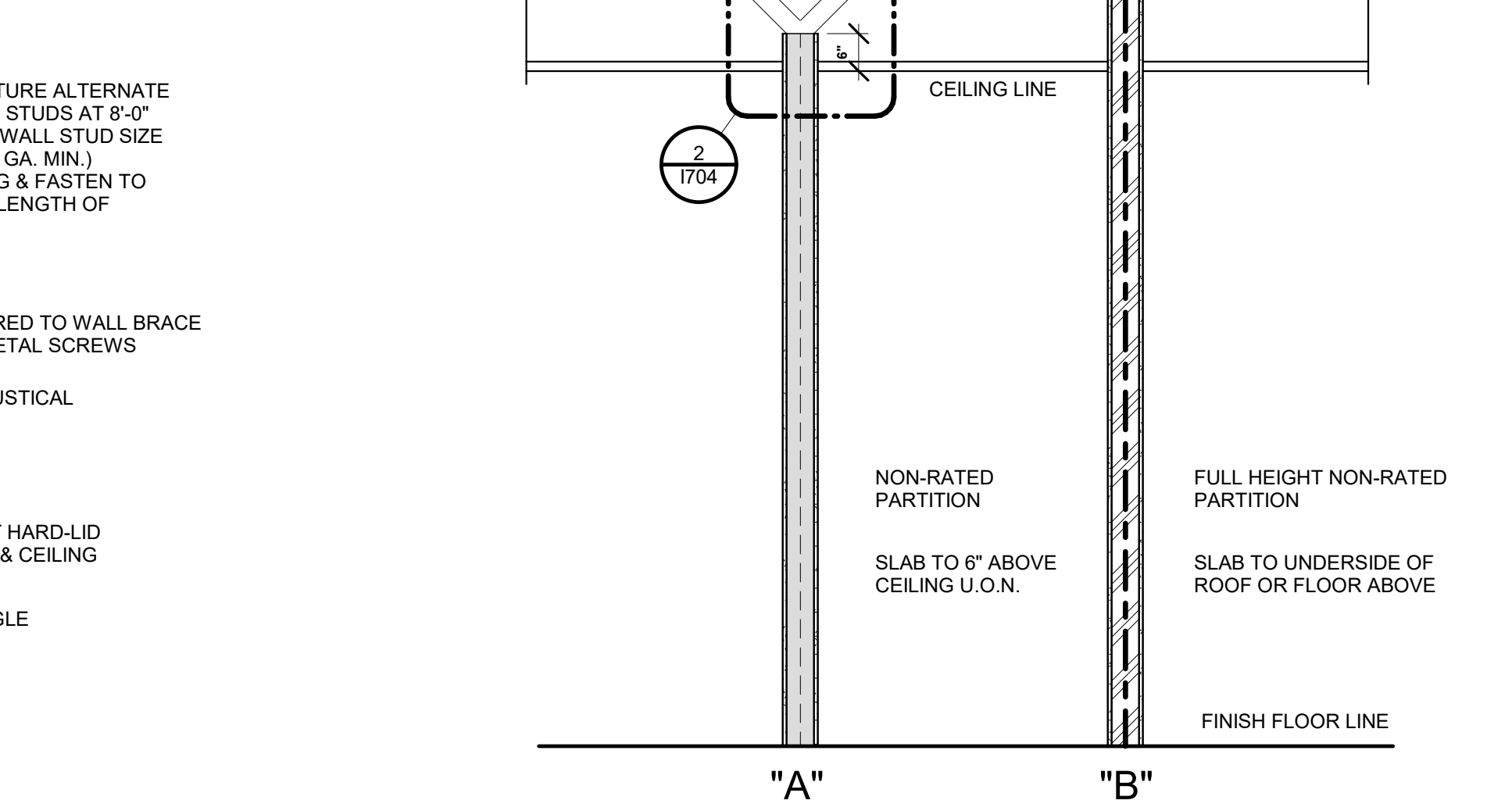
4 WALL SWAY BRACE  
3\"/>



3 FULL HEIGHT NON-RATED WALL  
3\"/>



2 PARTITION TO 6\"/>



1 WALL TYPE SCHEDULE  
1/2\"/>

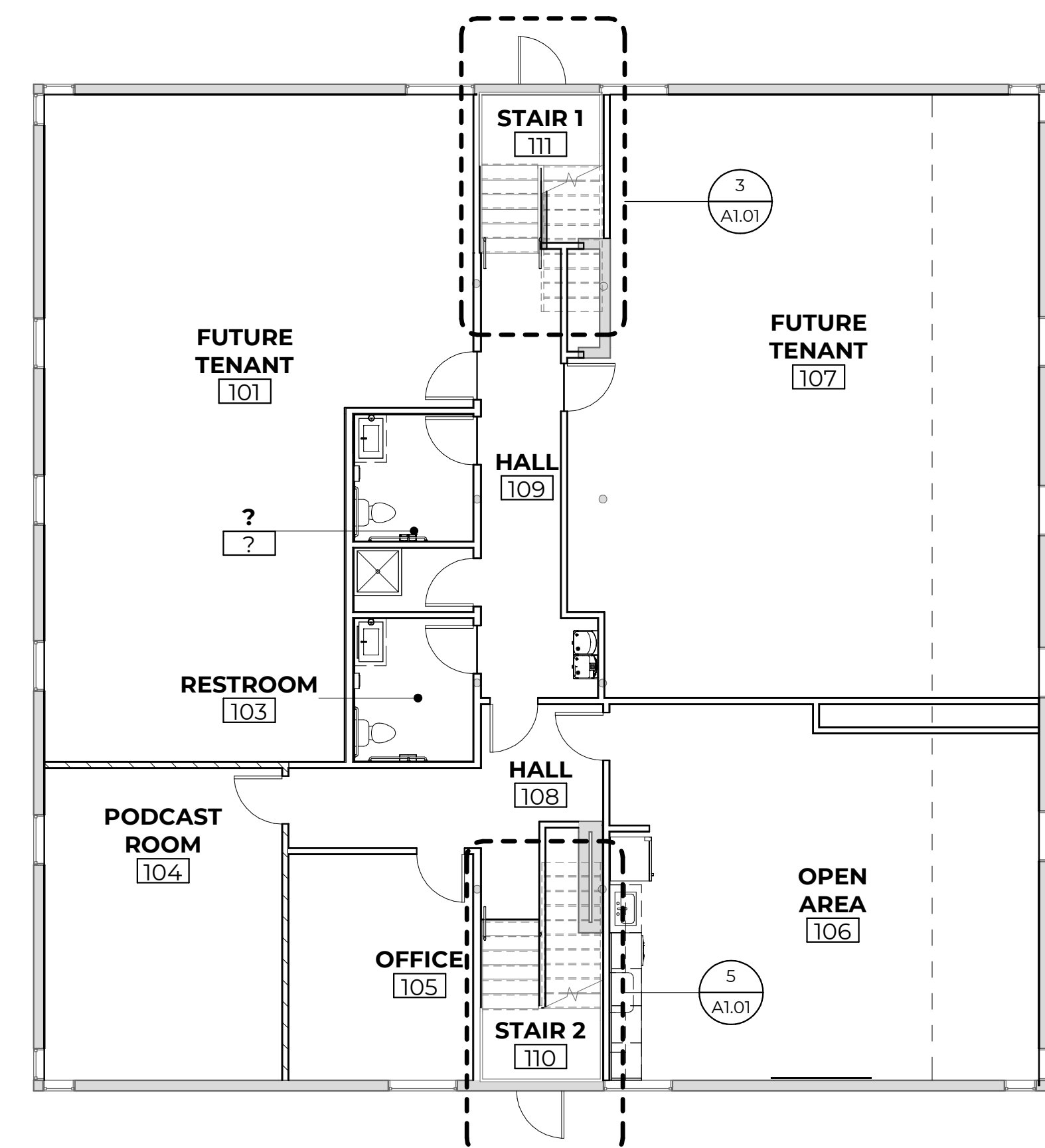
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GENERAL NOTES

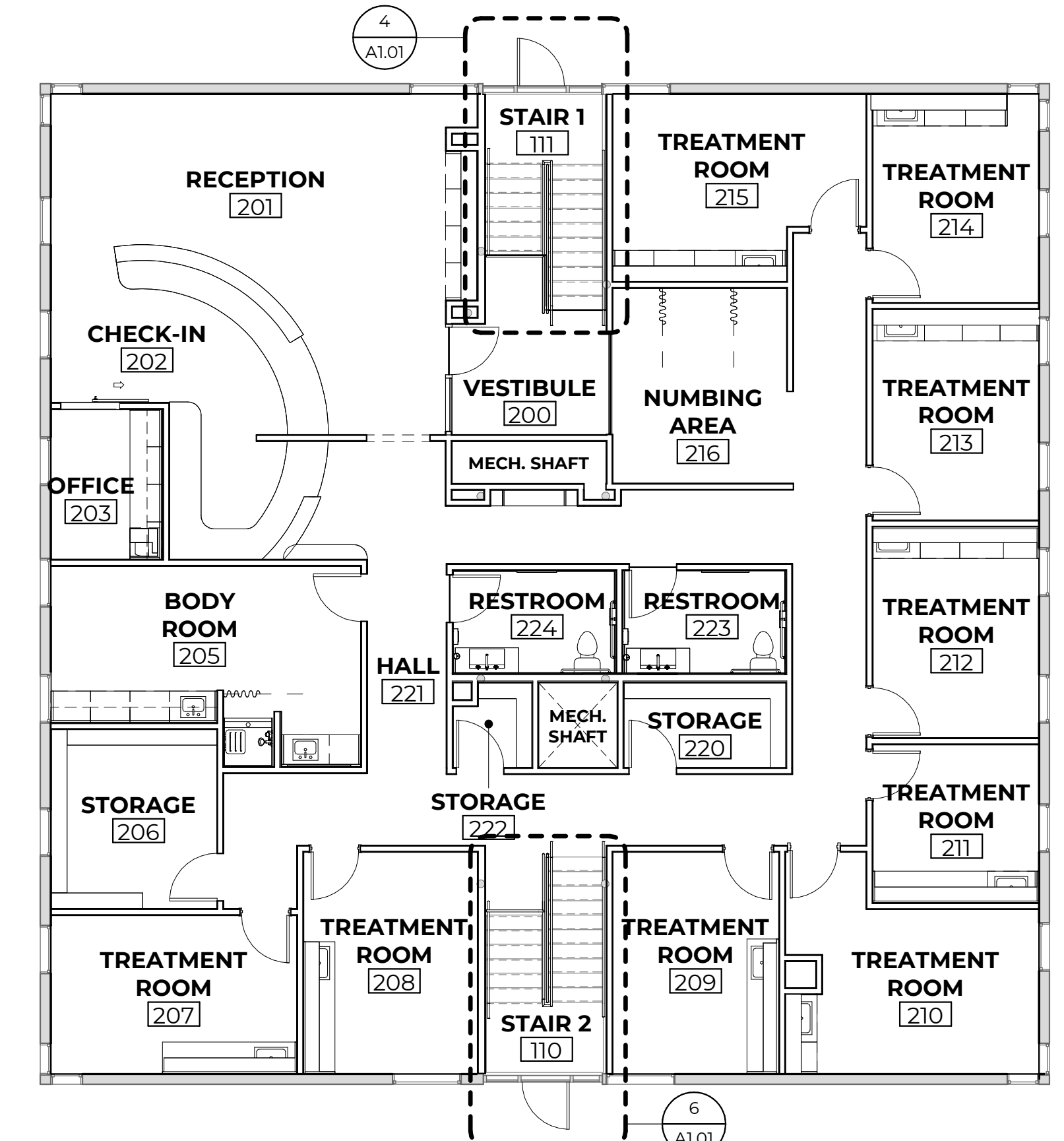
- 1 ALL STAIRS SHOWN ARE EXISTING TO REMAIN. NEW GUARDRAILS AND HANDRAILS ARE TO BE FURNISHED AS DESCRIBED BELOW.
- 2 FOR GUARDRAILS: ALL TOP RAILS TO BE METAL PIPE/TUBE WITH 1-1/2" OUTSIDE DIAMETER. TOP RAILS TO BE CONTINUOUS WITH END BALUSTERS. MITER ALL CORNERS. FINISH TO BE "AGED BRONZE" TO MATCH DOOR HARDWARE. PROVIDE SAMPLE FOR DESIGNER'S APPROVAL.
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KEYNOTES

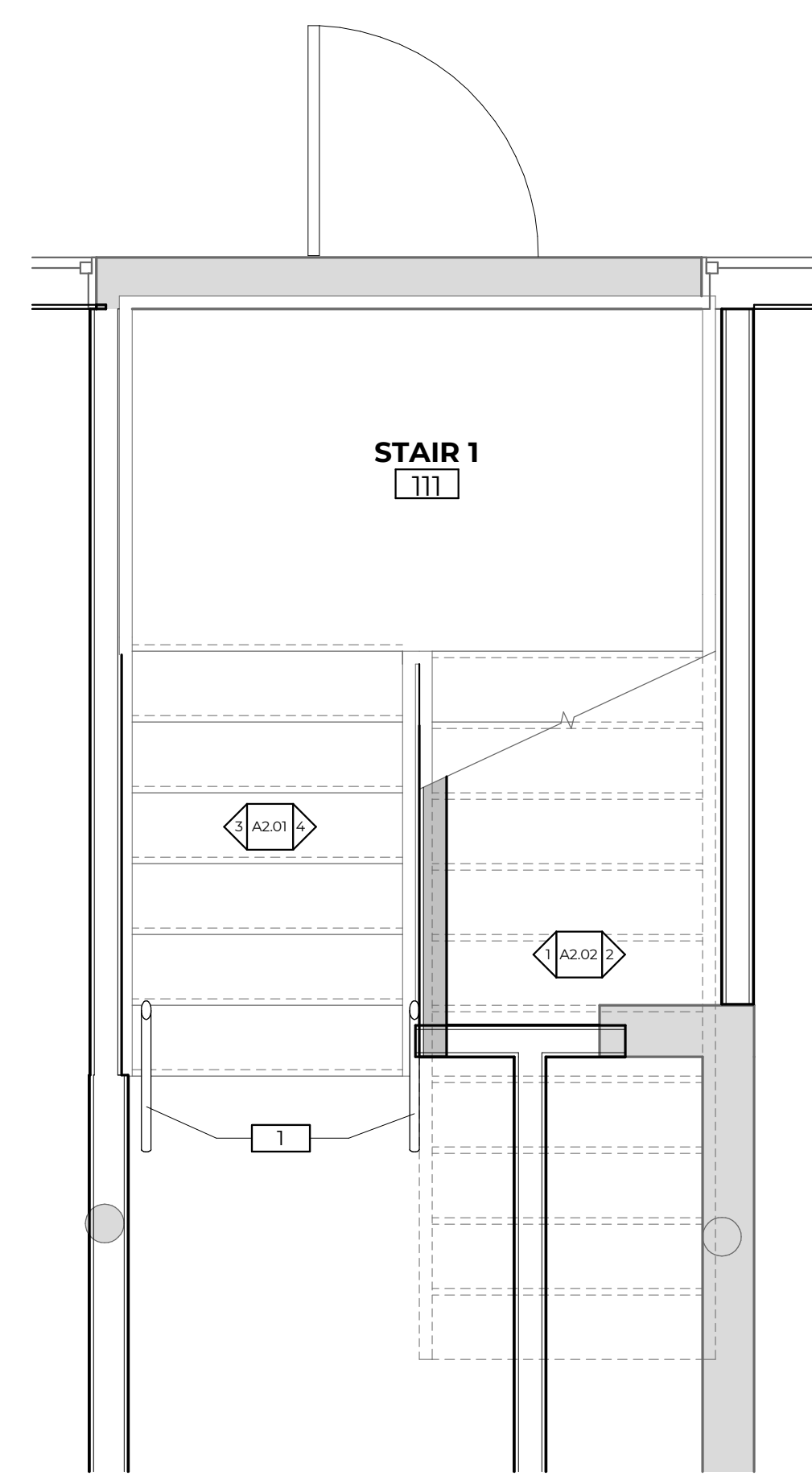
- 1 WALL-MOUNTED HANDRAIL. REFER TO GENERAL NOTES, ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION.
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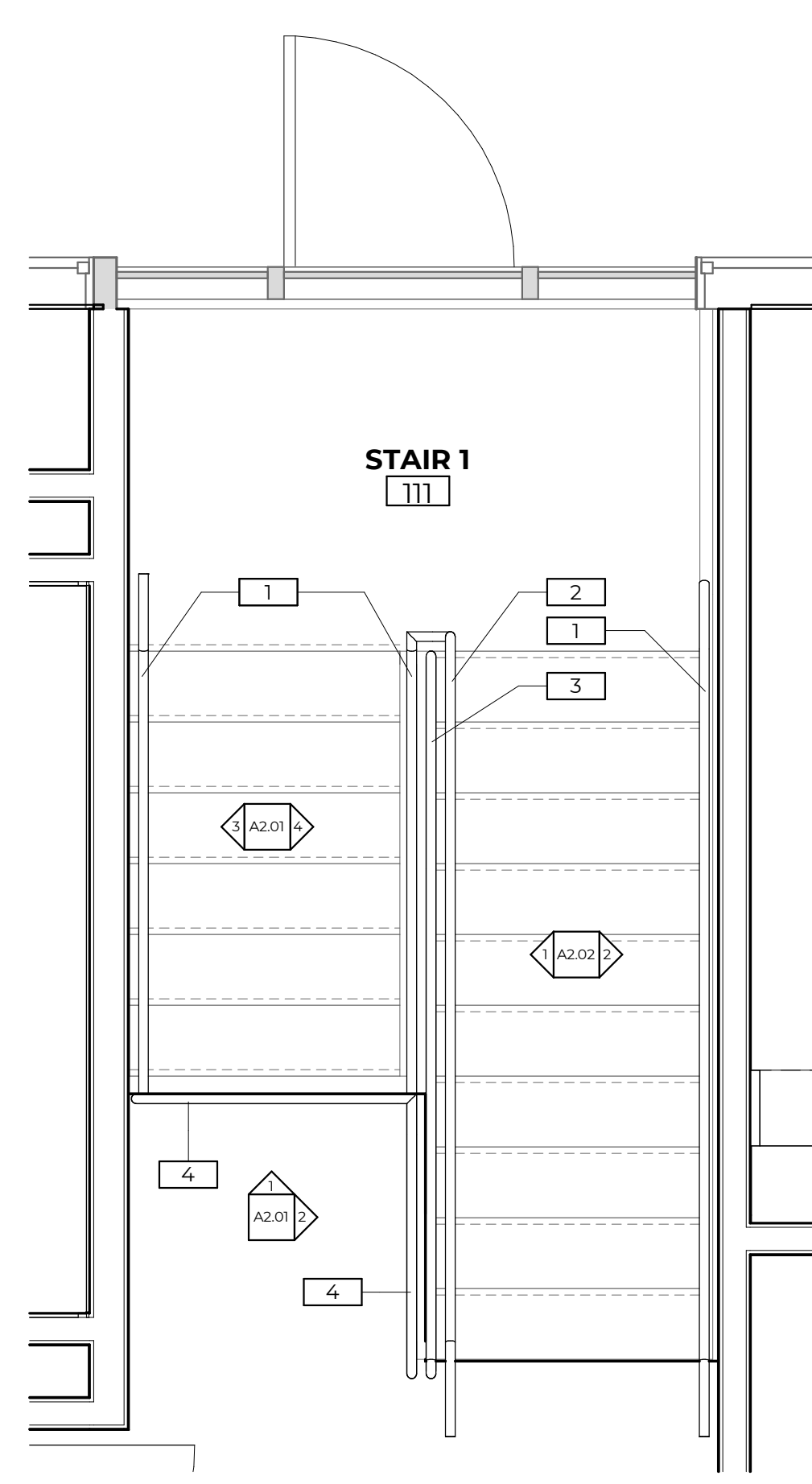
1 FIRST FLOOR KEY PLAN  
1/8" = 1'-0"



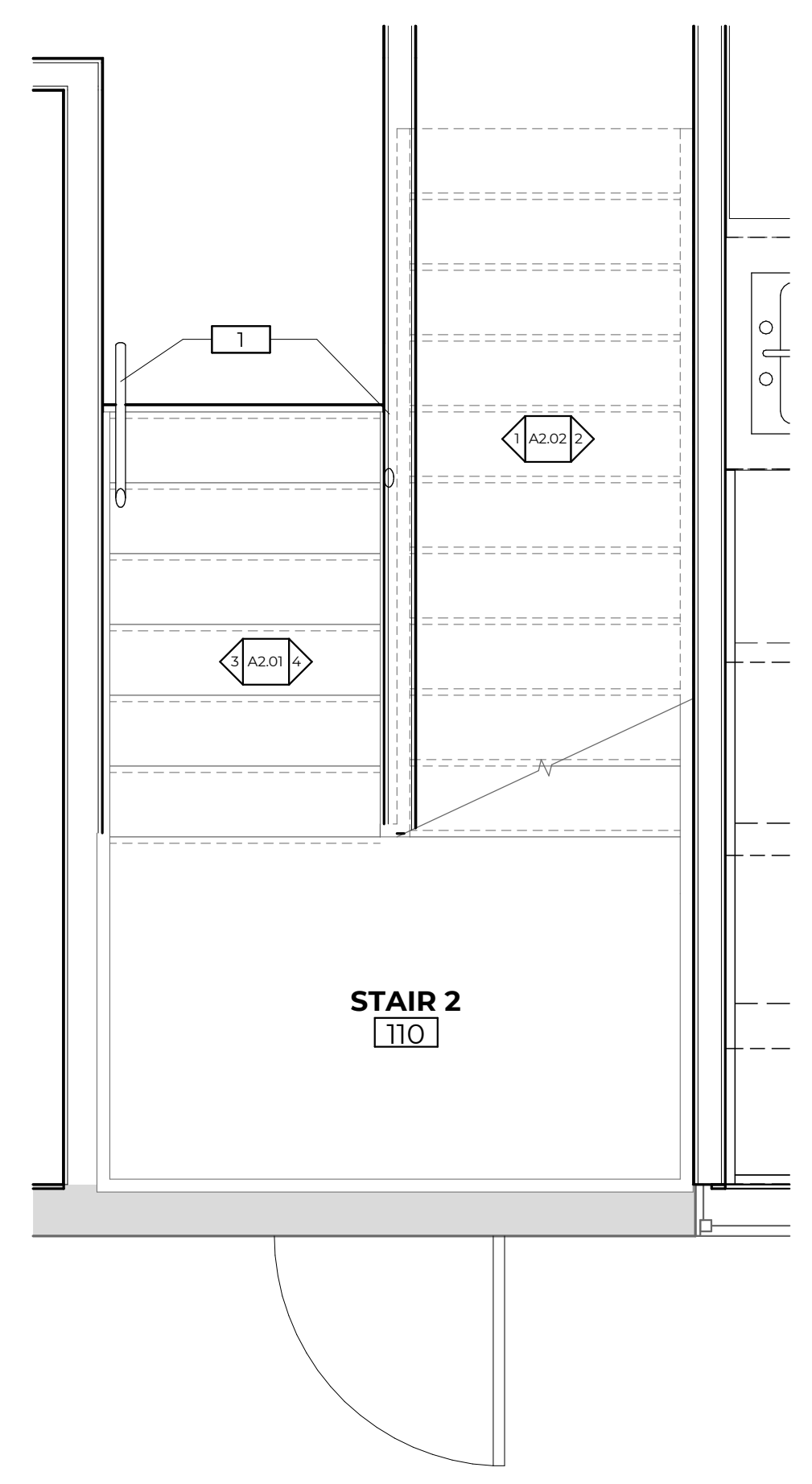
2 SECOND FLOOR KEY PLAN  
1/8" = 1'-0"



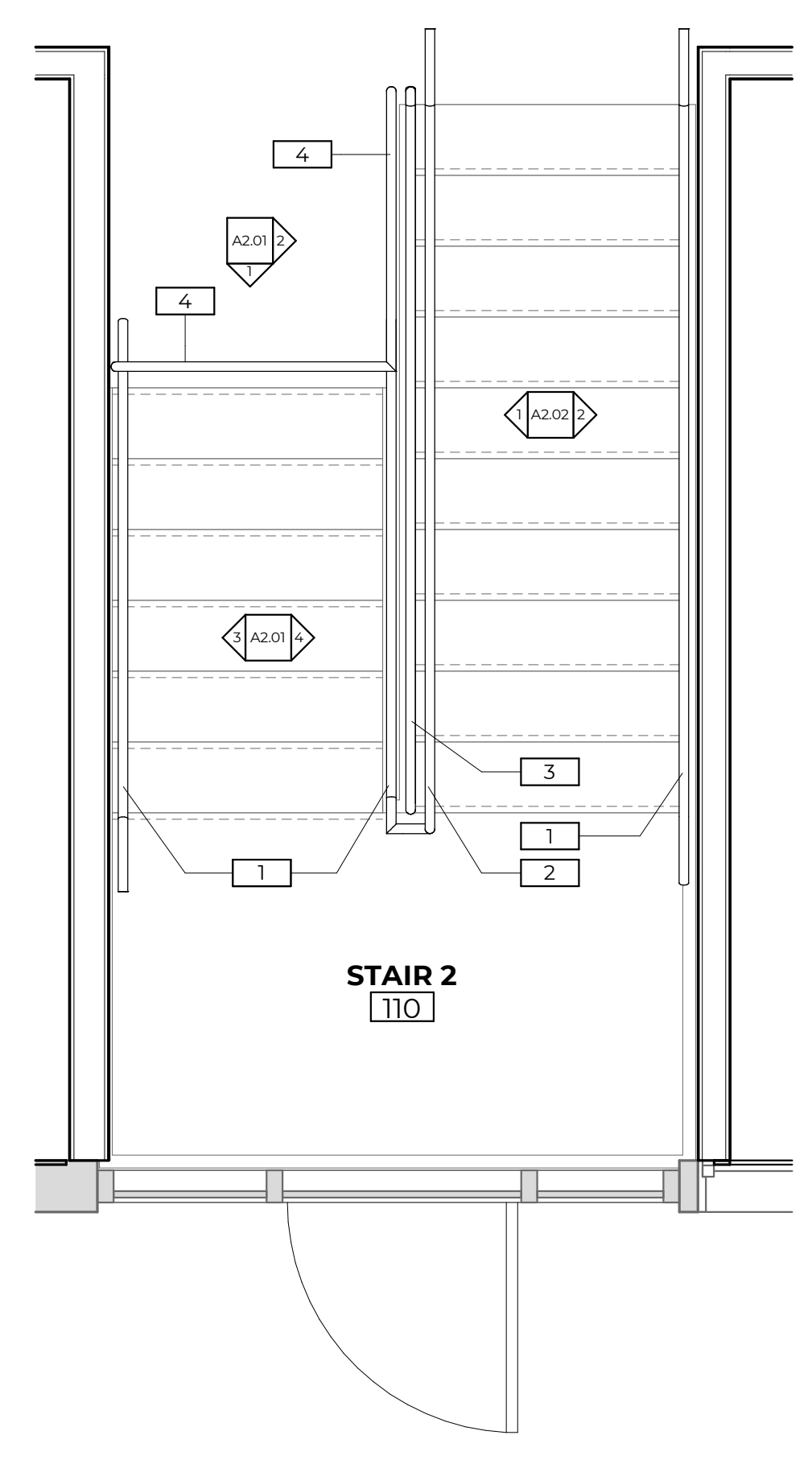
3 FIRST FLOOR ENLARGED STAIR PLAN - STAIR 1  
1/2" = 1'-0"



4 SECOND FLOOR ENLARGED STAIR PLAN - STAIR 1  
1/2" = 1'-0"



5 FIRST FLOOR ENLARGED STAIR PLAN - STAIR 2  
1/2" = 1'-0"



6 SECOND FLOOR ENLARGED STAIR PLAN - STAIR 2  
1/2" = 1'-0"

REVISIONS		
NO.	DESCRIPTION	DATE

CONSULTANT: **CO AB ARCHITECTURE**  
9217 EASTMAN PARK DRIVE, UNIT 3  
WINDSOR, COLORADO 80550

CONSULTANT SEAL: **Colorado Licensed Architect**  
406759  
*Angel Aesthetics*  
1/15/2025

CONSULTANT PROJECT NO.: **C2024.035**

**ANGEL AESTHETICS**

7090 HAMPDEN AVE  
DENVER, CO 80224



SHEET NAME: **STAIR PLANS**

ISSUE DATE: <b>05/12/05</b>	ISSUED FOR: <b>CONSTRUCTION</b>
DESIGNED: <b>KRC</b>	PROJECT NO.: <b>2024.55</b>
QA/QC: <b>KRC</b>	SHEET NO.:
SCALE: <b>As indicated</b>	<b>A1.01</b>

**GENERAL NOTES**

- 1 ALL STAIRS SHOWN ARE EXISTING TO REMAIN. NEW GUARDRAILS AND HANDRAILS ARE TO BE FURNISHED AS DESCRIBED BELOW.
- 2 FOR GUARDRAILS: ALL TOP RAILS TO BE METAL PIPE/TUBE WITH 1-1/2" OUTSIDE DIAMETER. TOP RAILS TO BE CONTINUOUS WITH END BALUSTERS. MITER ALL CORNERS. FINISH TO BE "AGED BRONZE" TO MATCH DOOR HARDWARE. PROVIDE SAMPLE FOR DESIGNER'S APPROVAL.
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**KEYNOTES**

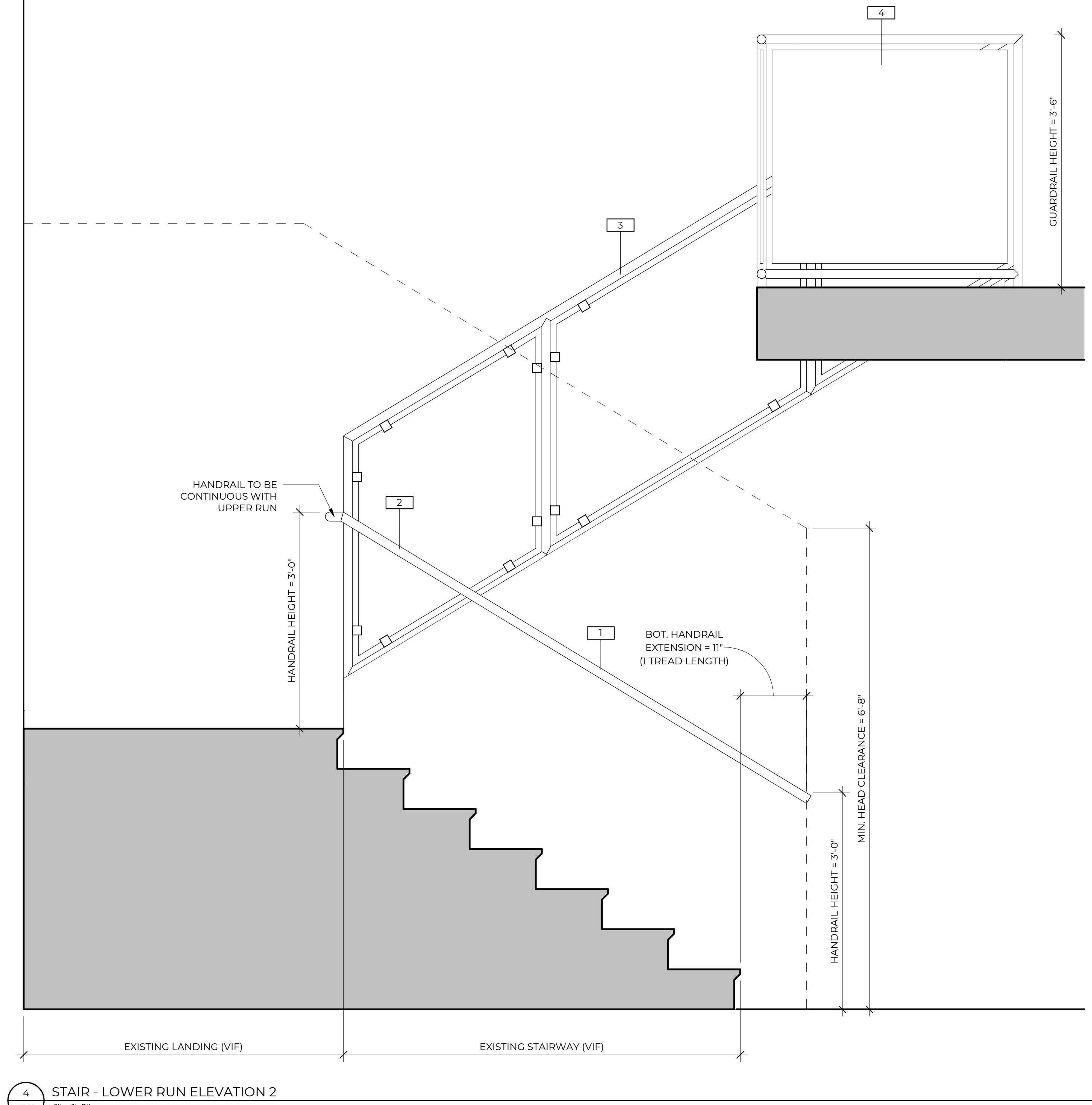
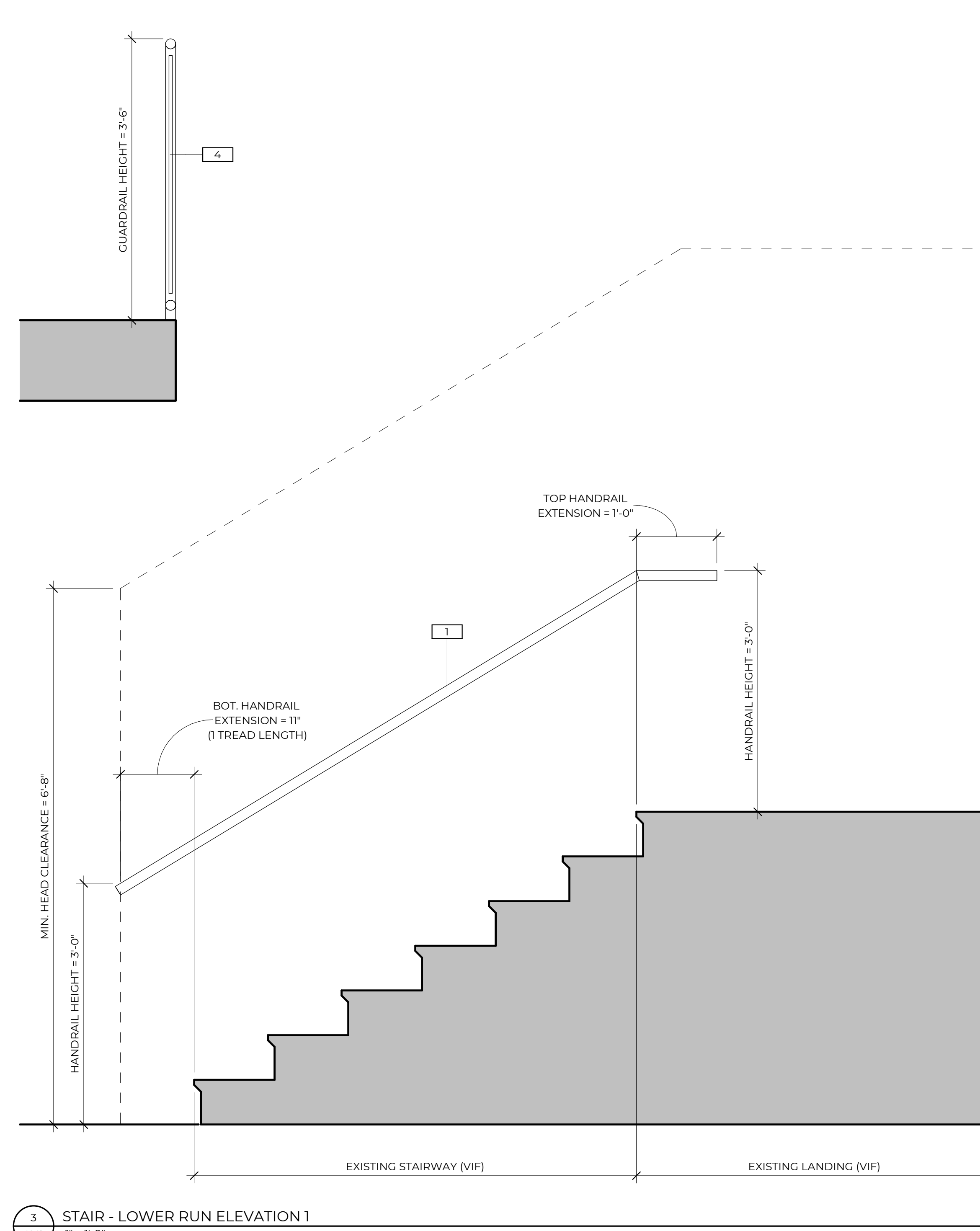
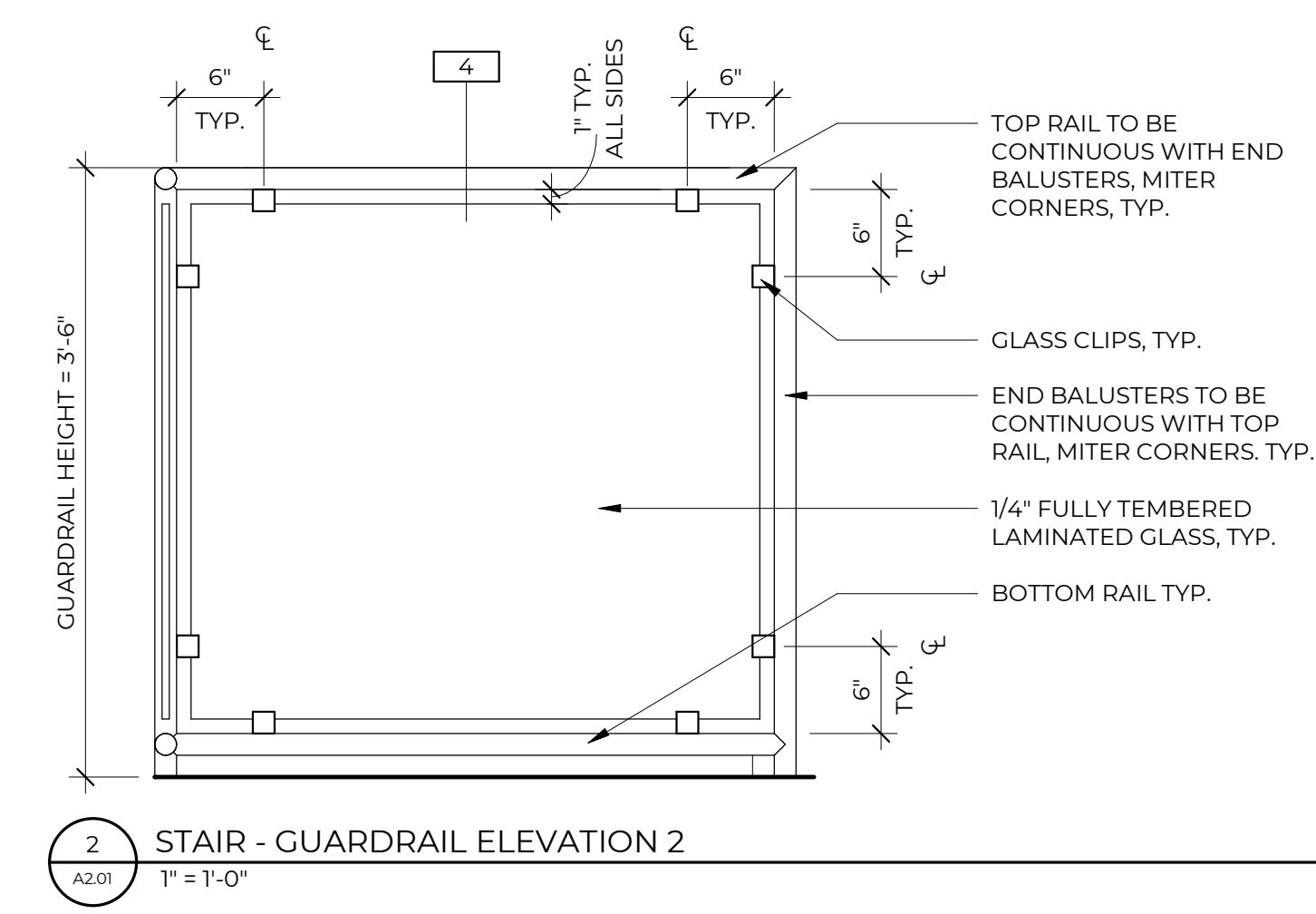
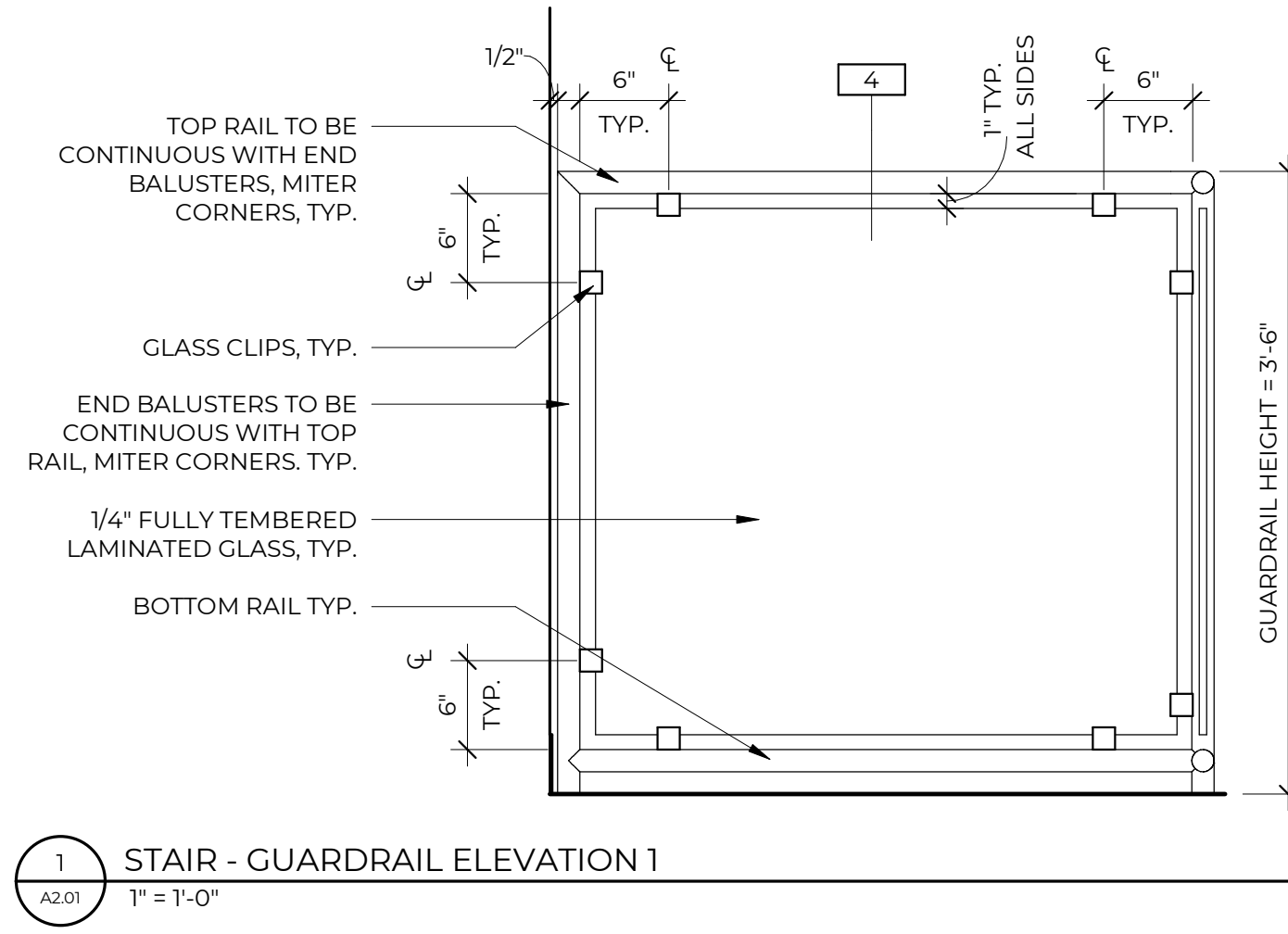
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REVISIONS		
NO	DESCRIPTION	DATE

CONSULTANT: **CO ARCHITECTURE**  
 9217 EASTMAN PARK DRIVE, UNIT 3  
 WINDSOR, COLORADO 80550

CONSULTANT SEAL: **ANGEL AESTHETICS**  
 COLORADO LICENSED ARCHITECT  
 406759  
 1/19/2025

CONSULTANT PROJECT NO.: **C2024.035**



**ANGEL AESTHETICS**

7090 HAMPDEN AVE  
 DENVER, CO 80224



SHEET NAME: **STAIR ELEVATIONS**

ISSUE DATE: <b>05/12/05</b>	ISSUED FOR: <b>CONSTRUCTION</b>
DESIGNED: <b>KRC</b>	PROJECT NO: <b>2024.55</b>
QA/QC: <b>KRC</b>	SHEET NO: <b>A2.01</b>
SCALE: <b>1" = 1'-0"</b>	

GENERAL NOTES

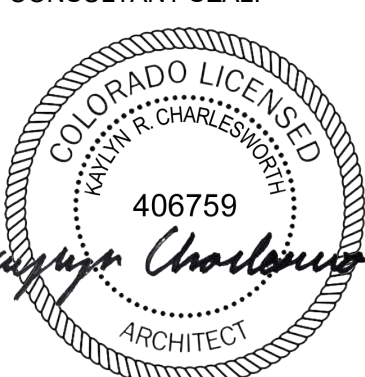
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KEYNOTES

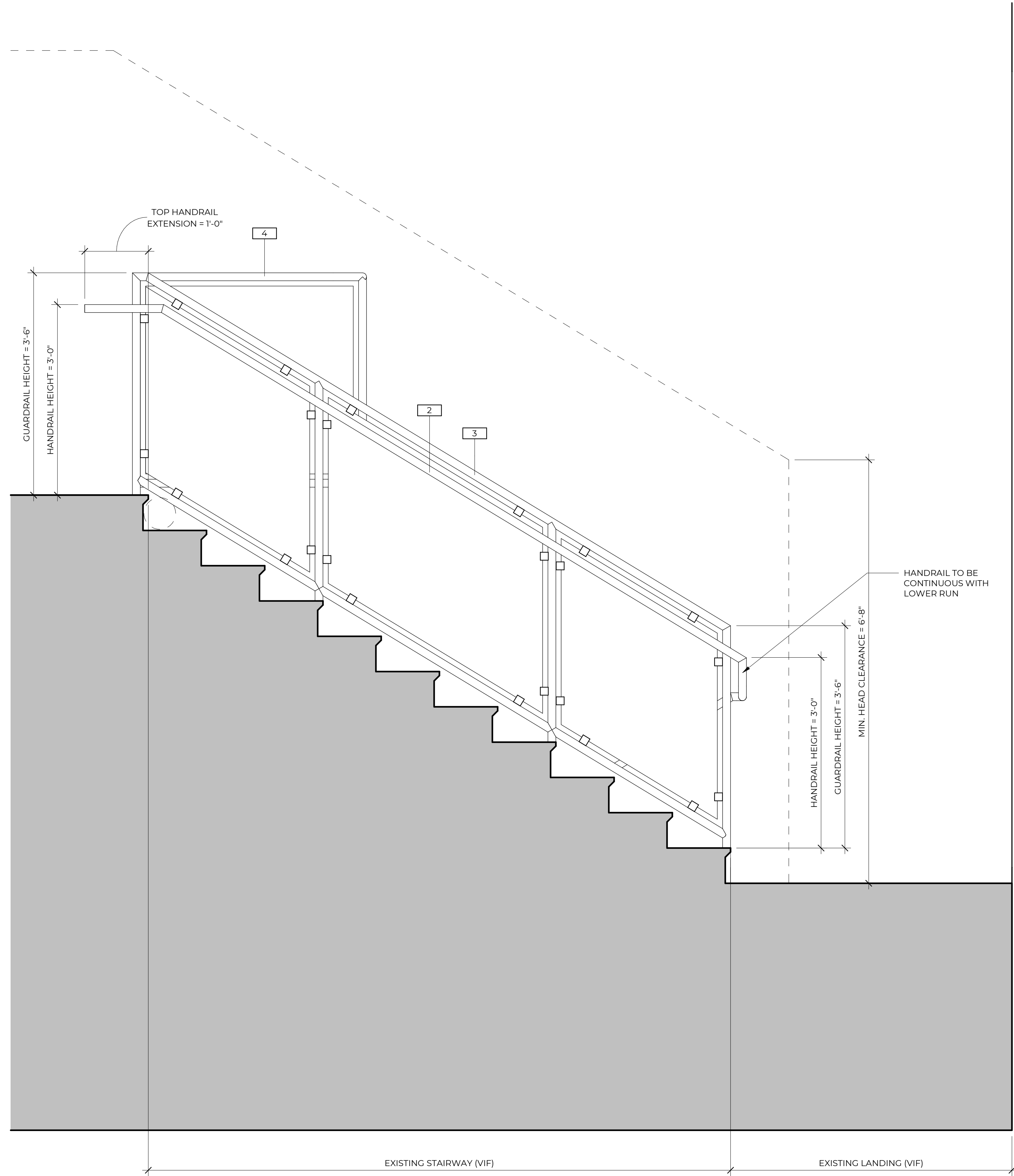
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REVISIONS		
NO.	DESCRIPTION	DATE

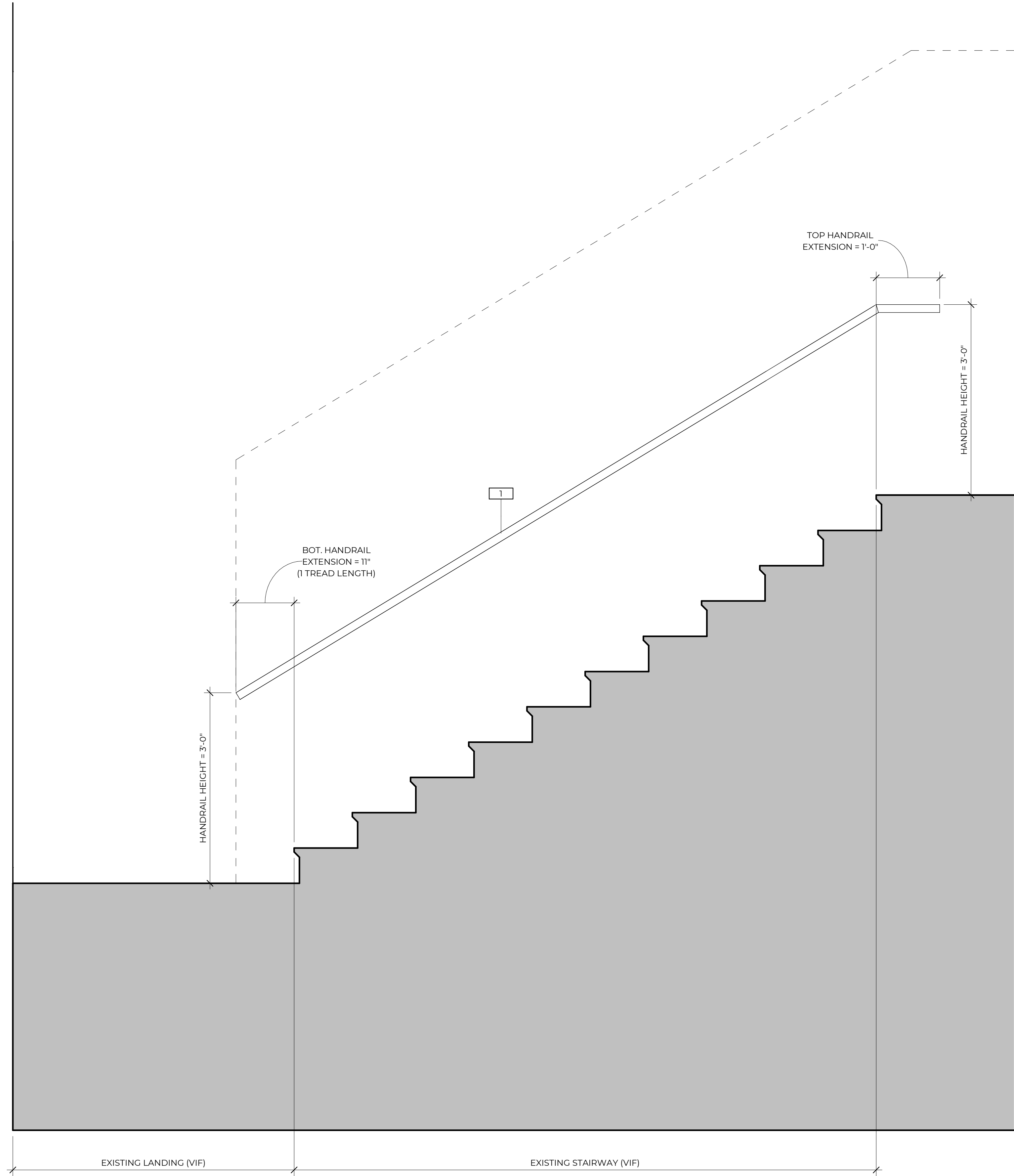
CONSULTANT: **CO LAB ARCHITECTURE**  
 9217 EASTMAN PARK DRIVE, UNIT 3  
 WINDSOR, COLORADO 80550

CONSULTANT SEAL:  
  
 COLORADO LICENSED ARCHITECT  
 406759  
 1/19/2025

CONSULTANT PROJECT NO.: **C2024.035**



1 STAIR - UPPER RUN ELEVATION 1  
 A2.02 1" = 1'-0"



2 STAIR - UPPER RUN ELEVATION 2  
 A2.02 1" = 1'-0"

ANGEL AESTHETICS

7090 HAMPDEN AVE  
 DENVER, CO 80224



SHEET NAME: <b>STAIR ELEVATIONS</b>	
ISSUE DATE: <b>1/13/2025</b>	ISSUED FOR: <b>CONSTRUCTION</b>
DESIGNED: <b>KRC</b>	PROJECT NO.: <b>2024.55</b>
QA/QC: <b>KRC</b>	SHEET NO.:
SCALE: <b>1" = 1'-0"</b>	<b>A2.02</b>



### ELECTRICAL LEGEND

<b>POWER AND LIGHTING</b>	<b>LOW VOLTAGE SYSTEMS</b>
⊕ WALL MOUNTED DUPLEX RECEPTACLE	☐ TELEPHONE TERMINAL BOARD
⊕ WALL MOUNTED QUADRUPLX RECEPTACLE	▽ DATA OUTLET
⊕ WALL MOUNTED DEDICATED DUPLEX RECEPTACLE	▽ TELEPHONE OUTLET
⊕ WALL MOUNTED SPECIAL PURPOSE RECEPTACLE	▽ TELEPHONE/DATA OUTLET
⊕ FLOOR/CEILING MOUNTED RECEPTACLE	⊕ FLOOR/CEILING MOUNTED TELEPHONE/DATA OUTLET
⊕ JUNCTION BOX	⊕ CATV/MONITOR A/V OUTLET
⊕ WALL MOUNTED JUNCTION BOX	⊕ SPEAKER
⊕ DISCONNECT SWITCH	⊕ FIRE ALARM PANEL
⊕ FUSED DISCONNECT SWITCH	⊕ S-SMOKE, T-HEAT DETECTOR
⊕ ELECTRICAL PANELBOARD	⊕ CO CO-MBDO SMOKE, CO DETECTOR
⊕ TRANSFORMER	
⊕ RECESSED LIGHT FIXTURE	<b>REFERENCE SYMBOLS</b>
⊕ SURFACE MOUNTED LIGHT FIXTURE	⊕ KEYED NOTE
⊕ SINGLE POLE SWITCH	⊕ EQUIPMENT - SEE SCHEDULES
⊕ #POLE SWITCH	⊕ FEEDER - SEE SCHEDULE
⊕ DIMMER SWITCH	⊕ TRANSFORMER - SEE SCHEDULE
⊕ WALL SWITCH OCCUPANCY SENSOR	<b>REMODEL WORK</b>
⊕ CEILING MOUNTED SENSOR O-OCCUPANCY, D-DAYLIGHT	⊕ DEMOLITION, TO BE REMOVED
⊕ EXIT SIGN	⊕ EXISTING TO BE REMOVED FOR RELOCATION AND REUSE
⊕ EMERGENCY LIGHT	⊕ EXISTING TO REMAIN
⊕ COMBO EXIT SIGN, EMERGENCY LIGHT	⊕ RELOCATED LOCATION
⊕ EXTERIOR EMERGENCY LIGHT	⊕ NEW WORK
⊕ EMERGENCY LIGHT FIXTURE - SHADED	
⊕ MOTOR	

<b>ABBREVIATIONS</b>	
AC ABOVE COUNTER - VERIFY HEIGHT	EWG ELECTRIC WATER COOLER
AFF ABOVE FINISHED FLOOR	GD GARBAGE DISPOSAL
AFI ARC FAULT INTERRUPTING	GI GROUND FAULT INTERRUPTING
ATS AUTOMATIC TRANSFER SWITCH	IT INFORMATION TECHNOLOGY
CLG CEILING	MIC MICROWAVE
CM COFFEE MAKER	MTS MANUAL TRANSFER SWITCH
D DRYER	REF REFRIGERATOR
DW DISHWASHER	TTB TELEPHONE TERMINAL BOARD
EC ELECTRICAL CONTRACTOR	W WASHER
EF EXHAUST FAN	WP WEATHER PROOF

NOTE: NOT ALL ITEMS APPEAR ON DRAWINGS. SYMBOLS MAY DIFFER FROM EXISTING AND DEMO WORK OR DEVICES REFERENCED OR SYMBOLS USED FROM DRAWINGS BY OTHERS.

### SCOPE OF WORK SUMMARY:

NEW TENANT FINISH IN EXISTING BUILDING.  
REPLACE EXISTING ELECTRICAL SERVICE WITH NEW 400A SERVICE.

### CODE COMPLIANCE STATEMENT:

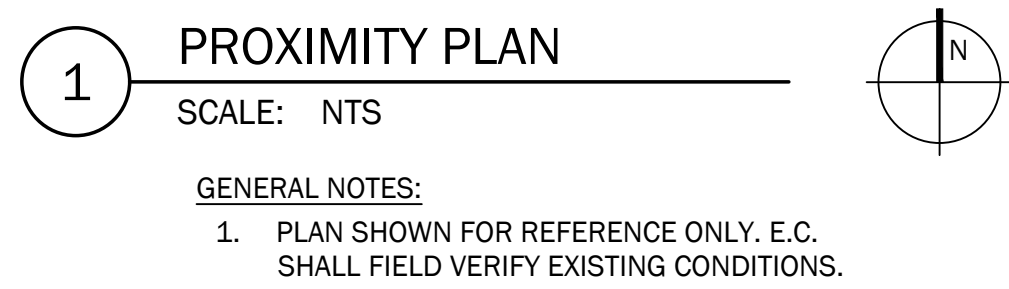
THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES:

- 2023 National Electric Code (NEC)
- 2023 Denver Energy Code - 2023 International Energy Conservation Code (IECC)

COMCheck Code Compliance Documents are in this E Sheet Set

### SHEET LOG

E000	COVER SHEET
E001	ELECTRICAL ONE LINE DIAGRAM AND SCHEDULES
E100	POWER PLAN - LEVEL 1
E101	POWER PLAN - LEVEL 2
E200	LIGHTING PLAN - LEVEL 1
E201	LIGHTING PLAN - LEVEL 2



THE REQUIREMENTS FOR PATIENT CARE AREAS CAN NOT BE OVERRIDDEN BY SCHEDULES OR ANY OTHER LABELING OF CIRCUITS OR CONDUCTORS.

**HEALTHCARE FACILITY GENERAL NOTES** (EXCERPTS FROM 2023 NEC)

517.13 EQUIPMENT GROUNDING FOR RECEPTACLES AND FIXED ELECTRIC EQUIPMENT IN PATIENT CARE SPACES:  
WIRING SERVING PATIENT CARE SPACES SHALL COMPLY WITH 517.13(A) AND 517.13(B).

**EXCEPTION:** LUMINARIES MORE THAN 2.3 M (7.1 / 2 FT) ABOVE THE FLOOR AND SWITCHES LOCATED OUTSIDE OF THE PATIENT CARE VICINITY SHALL BE PERMITTED TO BE CONNECTED TO AN EQUIPMENT GROUNDING RETURN PATH COMPLYING WITH THE REQUIREMENTS OF 517.13(A) OR (B).

(A) WIRING METHODS. ALL BRANCH CIRCUITS SERVING PATIENT CARE SPACES SHALL BE PROVIDED WITH AN EFFECTIVE GROUND FAULT CURRENT PATH BY INSTALLATION IN A METAL RACEWAY SYSTEM OR A CABLE HAVING A METALLIC ARMOR OR SHEATH ASSEMBLY, THE METAL RACEWAY SYSTEM, METALLIC CABLE ARMOR, OR SHEATH ASSEMBLY SHALL ITSELF QUALIFY AS AN EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH 250.115.

(B) INSULATED EQUIPMENT GROUNDING CONDUCTOR AND INSULATED EQUIPMENT BONDING JUMPERS.

(1) GENERAL. AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR THAT IS CLEARLY IDENTIFIED ALONG ITS ENTIRE LENGTH BY GREEN INSULATION AND INSTALLED WITH THE BRANCH CIRCUIT CONDUCTORS WITHIN THE WIRING METHOD IN ACCORDANCE WITH 517.13(A) SHALL BE CONNECTED TO THE FOLLOWING:

- GROUNDING TERMINALS OF ALL RECEPTACLES OTHER THAN ISOLATED GROUND RECEPTACLES
- METAL OUTLET BOXES, METAL DEVICE BOXES, OR METAL ENCLOSURES
- ALL NON-CURRENT-CARRYING CONDUCTIVE SURFACES OF FIXED ELECTRICAL EQUIPMENT LIKELY TO BECOME ENERGIZED THAT ARE SUBJECT TO PERSONAL CONTACT, OPERATING AT OVER 100 VOLTS

**EXCEPTION NO. 1:** FOR OTHER THAN ISOLATED GROUND RECEPTACLES, AN INSULATED EQUIPMENT BONDING JUMPER THAT DIRECTLY CONNECTS TO THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE PERMITTED TO CONNECT THE BOX AND RECEPTACLE(S) TO THE EQUIPMENT GROUNDING CONDUCTOR. ISOLATED GROUND RECEPTACLES SHALL BE CONNECTED IN ACCORDANCE WITH 517.16.

**EXCEPTION NO. 2:** METAL FACEPLATES SHALL BE CONNECTED TO AN EFFECTIVE GROUND-FAULT CURRENT PATH BY MEANS OF A METAL MOUNTING SCREWS) SECURING THE FACEPLATE TO A METAL YOKE OR STRAP OF A RECEPTACLE OR TO A METAL OUTLET BOX.

517.18 CATEGORY 2 SPACES.

(C) DESIGNATED CATEGORY 2 PEDIATRIC LOCATIONS. RECEPTACLES LOCATED WITHIN PATIENT ROOMS, BATHROOMS, PLAYROOMS, AND ACTIVITY ROOMS OF PEDIATRIC UNITS OR SPACES WITH A SIMILAR RISK AS DETERMINED BY THE HEALTH CARE FACILITY'S GOVERNING BODY BY CONDUCTING A RISK ASSESSMENT, OTHER THAN INFANT NURSERIES, SHALL BE LISTED AND IDENTIFIED AS "TAMPER RESISTANT" OR SHALL EMPLOY A LISTED TAMPER RESISTANT COVER.

517.80 PATIENT CARE SPACES. EQUIVALENT INSULATION AND ISOLATION TO THAT REQUIRED FOR THE ELECTRICAL DISTRIBUTION SYSTEMS IN PATIENT CARE AREAS SHALL BE PROVIDED FOR COMMUNICATIONS, SIGNALING SYSTEMS, DATA SYSTEM CIRCUITS, FIRE ALARM SYSTEMS, AND SYSTEMS LESS THAN 120 VOLTS, NOMINAL.

FPN: AN ACCEPTABLE ALTERNATE MEANS OF PROVIDING ISOLATION FOR PATIENT/NURSE CALL SYSTEMS IS BY THE USE OF NON-ELECTRIFIED SIGNALING, COMMUNICATIONS, OR CONTROL DEVICES HELD BY THE PATIENT OR WITHIN REACH OF THE PATIENT.

517.61 WIRING AND EQUIPMENT.

(C) UNCLASSIFIED ANESTHETIZING LOCATIONS.

(2) RECEPTACLES AND ATTACHMENT PLUGS. RECEPTACLES AND ATTACHMENT PLUGS INSTALLED AND USED IN UNCLASSIFIED LOCATIONS SHALL BE LISTED "HOSPITAL GRADE" FOR SERVICES OF PRESCRIBED VOLTAGE, FREQUENCY, RATING, AND NUMBER OF CONDUCTORS WITH PROVISION FOR CONNECTION OF THE EQUIPMENT GROUNDING CONDUCTOR. THIS REQUIREMENT SHALL APPLY TO 2-POLE, 3-WIRE GROUNDING TYPE FOR SINGLE-PHASE, 120-, 208-, OR 240-VOLT, NOMINAL, AC SERVICE.

### GENERAL PROJECT NOTES

NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS

- THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL NECESSARY FOR A COMPLETE, OPERATIONAL AND PROPERLY FUNCTIONING ELECTRICAL SYSTEM.
- MATERIALS AND INSTALLATION SHALL COMPLY WITH CODES, LAWS AND ORDINANCES OF FEDERAL, STATE AND LOCAL GOVERNING BODIES HAVING JURISDICTION.
- MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY UL, ETL, CSA OR ANOTHER RECOGNIZED TESTING LAB. ALL MATERIAL EQUIPMENT, WIRING DEVICES, ETC. SHALL BE NEW, UNLESS SPECIFICALLY INDICATED AS EXISTING TO BE REUSED.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT TO GOVERNMENTAL AGENCIES AND UTILITY COMPANIES SHOP DRAWINGS REQUIRED BY THESE AGENCIES FOR APPROVAL. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE ELECTRICAL WORK. THIS CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THIS CONTRACT. SHALL BE RESPONSIBLE FOR WORKERS IDENTIFICATION AND BADGING, SAFETY, AND LIABILITY INSURANCE, PROVIDE BARRICADES, WARNING SIGNS, AND TRASH REMOVAL FOR THE SAFETY OF THE WORKERS UNDER THIS CONTRACTOR'S EMPLOY.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER/OWNER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL PREPARE THE DOCUMENTS, INCLUDING DRAWINGS, REQUIRED TO OBTAIN APPROVAL OF THE EQUIPMENT AND LOCATIONS OF THE DEVICES THAT COMPRISE THE BUILDING FIRE ALARM LIFE SAFETY SYSTEM. THE DRAWINGS AND CUT SHEETS SHALL BE PROVIDED TO A PROFESSIONAL ENGINEER FOR REVIEW AND APPROVAL. THE APPROVED DRAWINGS WILL BE STAMPED, SIGNED AND RETURNED TO EC TO SUBMIT TO THE BUILDING DEPARTMENT.
- THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, AND THOROUGHLY BECOME FAMILIAR WITH THE BUILDING STANDARDS, LOCAL JURISDICTIONAL CODES AND REQUIREMENTS, AND LOCAL CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. SUBMISSION OF PROPOSAL IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE. NO EXTRA CHARGE WILL BE ALLOWED FOR CHANGES AS A RESULT FROM FAILURE TO EXAMINE THE JOB SITE.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND WIRING FOR THE PERFORMANCE OF ALL TRADES, FOR THE ENTIRE PERIOD OF CONSTRUCTION AND SHALL REMOVE ALL TEMPORARY WIRING AT THE COMPLETION OF CONSTRUCTION.
- THE EXISTING POWER, SIGNAL AND COMMUNICATION SYSTEMS ARE TO REMAIN IN SERVICE TO PROVIDE FOR THE OWNER'S FUNCTION. SHOULD IT BECOME NECESSARY TO SHUT-DOWN ANY SYSTEM OR PORTION OF A SYSTEM, APPROVAL IN WRITING MUST BE OBTAINED FROM THE OWNER AND SHALL ONLY APPLY FOR THE PERIOD AND TIME AGREED UPON. THE BID IS TO INCLUDE THE COST OF ANY TEMPORARY WIRING AND PREMIUM TIME REQUIRED FOR THE SHUTDOWN.
- ALL MATERIALS AND EQUIPMENT SHALL BE ERRECTED, INSTALLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.
- ALL CUTTING, DRILLING AND PATCHING OF MASONRY, STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTION OF THE ARCHITECT DESIGNER OR THEIR REPRESENTATIVE.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ELECTRICAL FIXTURES AND ELECTRICAL DEVICES. DEVICE LOCATIONS SHALL CONFORM TO ADA/ICC/ANSI STANDARDS.
- ALL WORK REQUIRED FOR THE INSTALLATION AS SHOWN ON DRAWINGS INCLUDING LABOR, EQUIPMENT AND MATERIALS SHALL BE IN STRICT COMPLIANCE WITH THE BUILDING STANDARDS.
- PROVIDE COMPLETE METAL RACEWAY SYSTEMS AND ENCLOSURES FOR ALL WIRING THROUGHOUT THE EXTENT OF THE REQUIRED SYSTEM UNLESS OTHERWISE PERMITTED BY THE NEC:
  - TYPE III, IV OR V CONSTRUCTION - WHERE PERMITTED PER NEC ARTICLE 334 NONMETALLIC SHEATHED CABLE AND NONMETALLIC BOXES MAY BE USED.
  - TYPE MC AND AC CABLE MAY BE USED WHERE PERMITTED BY THE NEC (ARTICLE 330)
- ALL TELE/ DATA BOXES SHALL BE PROVIDED WITH A 1/2" CONDUIT AND BUSHING WITH PULL STRING RUN 6" ABOVE FINISHED CEILING OR CEILING GRID. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED FOR ALL WALL OUTLETS & TELEPHONE WIRING RUNNING BELOW RAISED FLOOR OR ABOVE HARD CEILING.
- ALL RECEPTACLES NOTED AS ISOLATED GROUND (IG) OR DEDICATED OR CIRCUITED AS DEDICATED SHALL BE PROVIDED WITH A DEDICATED GROUND AND NEUTRAL.
- PROVIDE TAMPER RESISTANT RECEPTACLES AS REQUIRED PER NEC 406.12.
- MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE INDICATED. CONDUITS LARGER THAN 2" DIAMETER OR CONDUITS OF ANY SIZE ROUTED OUTDOORS SHALL BE INTERMEDIATE METAL CONDUIT (IMC).
- FLEXIBLE CONDUIT CONNECTIONS TO RECESSED LIGHTING FIXTURES SHALL BE MADE WITH FLEXIBLE STEEL CONDUIT, 3/8 INCH MINIMUM.
- FINAL CONNECTIONS TO MOTORS SHALL BE MADE WITH LIQUID TIGHT FLEXIBLE STEEL CONDUIT, 1/2 INCH MINIMUM.
- WIRE NO. 8 AND SMALLER INSTALLED IN DRY LOCATIONS SHALL BE TYPE THWN OR THHN THERMOPLASTIC 600V INSULATED COPPER CONDUCTORS. NO WIRE SMALLER THAN NO.12 SHALL BE USED FOR LIGHTING OR POWER WIRING. WIRE NO. 8 AND LARGER SHALL BE STRANDED. ALL CONDUCTORS INSTALLED IN EXTERIOR OR WET LOCATIONS SHALL BE TYPE THWN 600V INSULATED COPPER CONDUCTORS.
- ALL NEW CIRCUIT BREAKERS FOR NEW OR EXISTING PANELBOARDS SHALL MATCH EXISTING OR NEW BUILDING STANDARD PANELBOARD MANUFACTURER AND BREAKER TYPE. THE CONTRACTOR SHALL PROVIDE NEW ACCURATE AND DETAILED TYPE WRITTEN PANEL DIRECTORIES PER NEC 408.4 FOR ALL NEW OR MODIFIED PANELS. NUMBERED CIRCUITS ARE FOR CONVENIENCE OF DESIGN ONLY. EC TO FIELD VERIFY ACTUAL CIRCUIT NUMBERS USED AND CORRECTLY INDICATE ON "AS-BUILT" DRAWINGS. THE EC SHALL REMOVE ALL ABANDONED CIRCUITS.
- PROVIDE MINIMUM #10 FOR BRANCH CIRCUITS OVER 75' AT 120V AND OVER 150' AT 277V. EC TO FIELD VERIFY BRANCH CIRCUIT LENGTHS AND INCREASE CONDUCTOR SIZES AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP.
- EACH SWITCH, LIGHT, RECEPTACLE AND ALL OTHER DEVICES SHALL BE PROVIDED AND INSTALLED WITH A GALVANIZED OR SHERARIZED PRESSED STEEL JUNCTION BOX OF NOT LESS THAN NO. 14 US GAUGE STEEL. CONDUITS SHALL BE FASTENED WITH LOCKNUTS AND BUSHINGS AND ALL UNUSED KNOCKOUTS MUST BE LEFT SEALED. THERE MUST BE SUFFICIENT ROOM FOR WIRES AND BUSHINGS AND DEEP BOXES SHALL BE INSTALLED WHERE REQUIRED. BOXES SHALL BE SECURELY AND ADEQUATELY SUPPORTED. PROVIDE CIRCUIT NUMBERS PRINTED ON FACEPLATE OF EACH DEVICE.
  - EXCEPTION: TYPE III, IV OR V CONSTRUCTION - WHERE PERMITTED PER NEC ARTICLE 334 NONMETALLIC BOXES MAY BE USED.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SPECIAL OUTLET BOXES THAT MAY BE REQUIRED TO ENCLOSE RECEPTACLES. IN SUSPENDED CEILING SUPPORT CONDUIT AND JUNCTION BOXES DIRECT FROM THE STRUCTURAL SLAB, DECK, OR FRAMING PROVIDED FOR THAT PURPOSE. LIGHTING BRANCH CIRCUIT CONDUITS SHALL NOT BE CLIPPED TO THE CEILING SUPPORT WIRES OR SPLINE UNLESS THE CEILING SYSTEM HAS BEEN SPECIFICALLY DESIGNED FOR THAT PURPOSE.
- PROVIDE LOCAL DISCONNECT SWITCHES FOR ALL MOTORS (PLENUM APPROVED WHERE REQUIRED).
- THE EC SHALL INCLUDE IN HIS COST THE REMOVAL OF ALL EXISTING ELECTRICAL DEVICES, CONDUITS, FIXTURES AND EQUIPMENT THAT IS NOT TO BE REUSED. DISCARD ALL EQUIPMENT AS REQUIRED. EC SHALL BE RESPONSIBLE FOR DISCONNECTING PRIMARY SERVICE AND TEMPORARY POWER.
- PROVIDE WARRANTY GUARANTEED FOR A PERIOD OF ONE YEAR AFTER COMPLETION AND ACCEPTANCE. REPLACE ALL DEFECTIVE WORKMANSHIP, EQUIPMENT AND MATERIALS WITHOUT ADDITIONAL CHARGES.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS/HER OWN PROPERTY ON THE JOB SITE. THE OWNER OR TENANT ASSUMES NO RESPONSIBILITY FOR PROTECTION OF THIS CONTRACTOR'S PROPERTY AGAINST FIRE, THEFT, OR ENVIRONMENTAL CONDITIONS.
- WHERE CONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE RATED FLOORS, WALLS, OR PARTITIONS, THE SLEEVES SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED (EQUAL TO DOW CORNING) AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THE SERVICE. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS IN ORDER TO MAINTAIN THE FIRE RATING OF THE PENETRATED WALL, FLOOR, OR PARTITION. INSTALLATION SHALL BE A THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM AND UL. THE FIRE RATING SHALL MATCH THE RATING OF THE BARRIER BEING PENETRATED.
- SUBMIT AN ELECTRONIC COPY OF SHOP DRAWINGS, CONTROL DIAGRAMS, AND EQUIPMENT CUTS TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING RELATED WORK. SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S NAMES, CATALOG NUMBERS, CUTS, DIAGRAMS AND OTHER SUCH DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT. SUBMITTALS SHALL BE IN LOGICAL GROUPS. PARTIAL SUBMITTALS WILL NOT BE REVIEWED.
- UPON COMPLETION OF CONSTRUCTION, SUPPLY THE ENGINEER WITH ONE COMPLETE SET OF FULL SIZE AS-BUILT DRAWINGS. PROVIDE THE OWNER WITH THREE (3) SETS OF OPERATION AND MAINTENANCE MANUALS FOR EACH TYPE OF EQUIPMENT INSTALLED.
- THIS CONTRACTOR SHALL ASSUME ALL ADDED EXPENSES TO ALL TRADES ASSOCIATED WITH THE INSTALLATION OF SUBMITTED AND APPROVED ALTERNATE MEANS.
- THE CONTRACTOR SHALL COORDINATE THE LAYOUT OF THE FIRE ROOM WITH ALL OTHER DISCIPLINES, ESPECIALLY THE FIRE ALARM AND FIRE PROTECTION DESIGN-BUILD CONTRACTORS PRIOR TO ANY WORK.
- IF ANY CHANGES ARE MADE TO ACCOMMODATE FIELD CONDITIONS NOTIFY THE ENGINEER IMMEDIATELY OF WHAT THE CHANGES WOULD BE, THE REASON FOR THE CHANGES, AND THE COST IMPACTS.
- LOCATE ALL ELECTRICAL SWITCHBOARDS, PANELBOARDS AND ELECTRICAL DISTRIBUTION EQUIPMENT IN DEDICATED SPACES AND PROTECTED FROM DAMAGE WITH ADEQUATE WORKING CLEARANCE ACCORDANCE WITH NEC 110 REQUIREMENTS. PROVIDE PROTECTION FROM ANY FOREIGN SYSTEMS INSTALLED ABOVE THE DEDICATED EQUIPMENT SPACE PER NEC 110.2(B).
- SERVICE EQUIPMENT SHALL BE MARKED TO IDENTIFY IT AS BEING SUITABLE FOR USE AS SERVICE EQUIPMENT PER NEC 230.66.
- ELECTRICAL ROOM DOORS SHALL BE EQUIPPED WITH PANIC BARS, PRESSURE PLATES, OR OTHER DEVICES THAT ARE NORMALLY LATCHED BUT OPEN UNDER SIMPLE PRESSURE IN ACCORDANCE WITH NEC 110.26(C)(3).

**FIRE ALARM SYSTEM NOTES**  
FIRE ALARM SYSTEM IS TO BE DESIGN/BUILD BY THE CONTRACTOR.



### REVISIONS

NO	DESCRIPTION	DATE

CONSULTANT:

CONSULTANT SEAL:

CONSULTANT PROJECT NO.: **DK24.148**

**ANGEL AESTHETICS**  
7090 E HAMPDEN AVE  
DENVER, CO 80224

SHEET NAME: **COVER SHEET**

ISSUE DATE: <b>01/13/2025</b>	ISSUED FOR: <b>PERMIT</b>
DESIGNED: <b>AB</b>	PROJECT NO.: <b>2024.55</b>
QA/QC: <b>DK</b>	SHEET NO.:
SCALE: <b>As indicated</b>	<b>E000</b>

COMcheck Software Version COMcheckWeb Inspection Checklist Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COMcheck software. Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Table with 4 columns: Section # & Req. ID, Plan Review, Complies?, Comments/Assumptions. Includes item C103.2 (PP4) regarding plans, specifications, and calculations.

Additional Comments/Assumptions:

Table with 3 columns: Impact Level (High, Medium, Low), Report date: 12/04/24, Page 3 of 6. Project Title: Angel Aesthetics.

Project Title: Angel Aesthetics. Report date: 12/04/24. Data filename: Page 3 of 6.

Table with 4 columns: Section # & Req. ID, Rough-In Electrical Inspection, Complies?, Comments/Assumptions. Includes items C405.2.3, C405.2.1, C405.2.2, C405.2.1, C405.2.1, C405.2.2.

Project Title: Angel Aesthetics. Report date: 12/04/24. Data filename: Page 4 of 6.

Table with 4 columns: Section # & Req. ID, Rough-In Electrical Inspection, Complies?, Comments/Assumptions. Includes items C405.2.4, C405.2.5, C405.7, C405.8, C405.9.1, C405.9.2, C405.10, C405.11, C405.11.

Additional Comments/Assumptions:

Table with 3 columns: Impact Level (High, Medium, Low), Report date: 12/04/24, Page 5 of 6. Project Title: Angel Aesthetics.

Project Title: Angel Aesthetics. Report date: 12/04/24. Data filename: Page 5 of 6.

Table with 4 columns: Section # & Req. ID, Final Inspection, Complies?, Comments/Assumptions. Includes items C303.3, C408.1.1, C408.2.5, C408.3.

Additional Comments/Assumptions:

Project Title: Angel Aesthetics. Report date: 12/04/24. Data filename: Page 6 of 6.

FEEDER SCHEDULE - ALUMINUM. Table with columns: AMPACITY (W), FEEDER # Sets, 30 & N, G, CONDUIT (W) 3W, 3W. Includes conductor sizes for various ampacities.

This table indicates minimum conductor size for feeders of the ampacity indicated where #/W indicates the #Ampacity and W-number of wires.

Service Ground Table and Equipment Ground Table. Columns: Ampacity, #, #10, #8, #6, #4, #2, #1.

Service Ground Conductor sized per NEC Table 250.65. Equipment Ground Conductors sized per NEC Table 250.122.

Where discrepancies occur between the Feeder Schedule and the Grounding Tables, the larger conductor shall be used unless otherwise permitted by the NEC.

The installation shall meet all NEC 250 grounding and bonding requirements including 250.4 Path for Fault Current.

FEEDER SCHEDULE - COPPER. Table with columns: AMPACITY (W), FEEDER # Sets, 30 & N, G, CONDUIT (W) 3W, 3W. Includes conductor sizes for various ampacities.

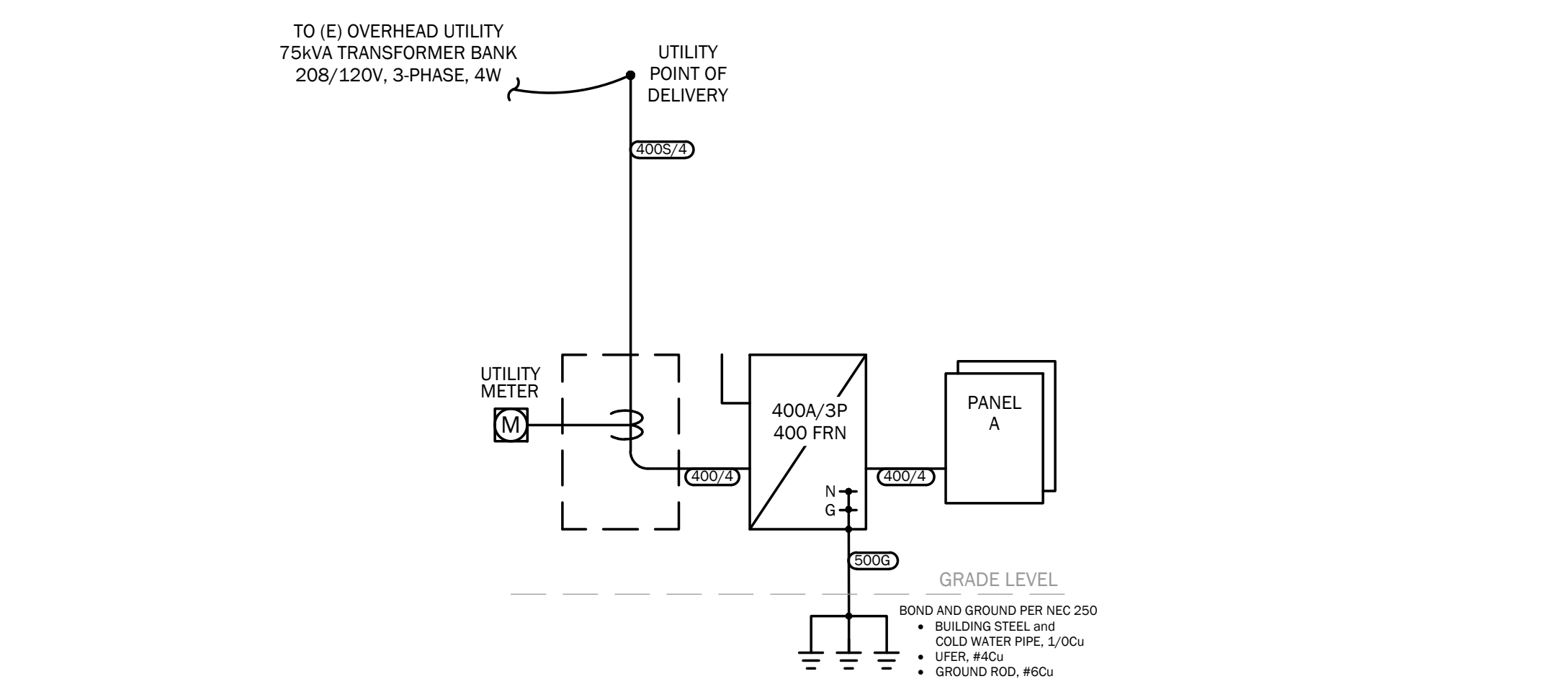
This table indicates minimum conductor size for feeders of the ampacity indicated where #/W indicates the #Ampacity and W-number of wires.

Service Ground Table and Equipment Ground Table. Columns: Ampacity, #, #10, #8, #6, #4, #2, #1.

Service Ground Conductor sized per NEC Table 250.65. Equipment Ground Conductors sized per NEC Table 250.122.

Where discrepancies occur between the Feeder Schedule and the Grounding Tables, the larger conductor shall be used unless otherwise permitted by the NEC.

The installation shall meet all NEC 250 grounding and bonding requirements including 250.4 Path for Fault Current.



- ONE LINE DIAGRAM GENERAL NOTES: 1. E.C. TO FIELD VERIFY EXISTING CONDITIONS. 2. ALL EQUIPMENT IS NEW UNLESS NOTED AS EXISTING (E). 3. ALL EXTERIOR EQUIPMENT TO BE WEATHERPROOF. 4. FIELD VERIFY INSTALLATION REQUIREMENTS WITH UTILITY PRIOR TO ANY ROUGH-IN. 5. THE E.C. SHALL PROVIDE LABELING OF ALL DISCONNECTING MEANS IN ACCORDANCE WITH NEC 110.22: 5.a. PROVIDE LABEL ON EACH DISCONNECTING MEANS PER NEC 110.22(A). 5.b. SERVICE EQUIPMENT SHALL BE LABELED WITH THE MAXIMUM AVAILABLE FAULT CURRENT AND DATE PER NEC 110.24(A). 5.c. WHERE ANY SERIES RATED COMBINATION SYSTEMS ARE UTILIZED, PROVIDE LABEL ON EQUIPMENT CLOSURE INDICATING THE SERIES RATED SYSTEM COMPONENTS INCLUDING FUSE AND BREAKER TYPES AND RATINGS IN ACCORDANCE WITH NEC 110.22(B) AND 110.22(C); CAUTION - SERIES COMBINATION SYSTEM RATED \_\_\_ AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED. 6. PROVIDE SEPARATE PRICE FOR ALUMINUM MAIN FEEDERS WHERE INDICATED ON THE ONE LINE DIAGRAM ONLY. ANY USE OF ALUMINUM CONDUCTORS SHALL BE APPROVED BY THE OWNER.

FAULT CURRENT CALCULATION TABLE. December 4, 2024. Includes columns for Location, # of RUNS, Conductor, Voltage, L(m), C, Total C, I, M, F. Available fault current is 14,800.

NOTES: 1. All calculations use Bussman "Point-To-Point" Method. 2. Variables: L=Feeder Length (LF), C=Conductor "C" Value, M(n) = 1 - (1+n). 3. The E.C. shall report any discrepancies to the Engineer. 4. Conductor lengths shall not be less than the values listed. The E.C. shall field verify conductor lengths and contact engineer immediately if conductor lengths are less than the values shown. 5. Conductor lengths listed in this table are for fault study purposes only and shall not be used for bidding or other calculations. 6. All in-line Utility Meters shall be protected to limit the Fault Current to no more than 10kA at the Meter per the Utility Company requirements. 7. Label and date available fault current value at the main service disconnect per NEC 110.24(A). 8. Provide Arc-Flash Hazard study and labeling for personnel and protective equipment prior to energizing equipment per NEC 110.16 and NFPA 70E.

DESIGN STUDIO BLUE. 88 INVERNESS CIRCLE E, J101 ENGLEWOOD, CO 80112. PHONE: 720.724.3149. EMAIL: info@designstudio-blue.com designstudio-blue.com

REVISIONS table with columns: NO, DESCRIPTION, DATE.

CONSULTANT: d.keller. CONSULTANT SEAL: COLORADO LICENSED PROFESSIONAL ENGINEER 55872. 11/12/2025.

CONSULTANT PROJECT NO.: DK24.148

ANGEL AESTHETICS. 7090 E HAMPDEN AVE DENVER, CO 80224

ELECTRICAL ONE LINE DIAGRAM AND SCHEDULES. SHEET NAME: ISSUE DATE: 01/13/2025. ISSUED FOR: PERMIT. PROJECT NO: 2024.55. SHEET NO: E001. As indicated.

**REVISIONS**

NO	DESCRIPTION	DATE

CONSULTANT: **d.keller**

CONSULTANT SEAL: **COLORADO LICENSED ELECTRICIAN #55872**

CONSULTANT PROJECT NO.: **DK24.148**

ANGEL AESTHETICS  
7090 E HAMPDEN AVE  
DENVER, CO 80224

SHEET NAME: **POWER PLAN LEVEL 1**

ISSUE DATE: **01/13/2025** ISSUED FOR: **PERMIT**

DESIGNED: **AB** PROJECT NO: **2024.55**

QA/QC: **DK** SHEET NO: **E100**

SCALE: **As indicated**

- POWER PLAN GENERAL NOTES:**
- THIS DESIGN IS DIAGRAMMATICAL. REFER TO MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION MANUALS FOR SPECIFIC LOCATIONS AND INSTALLATION DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS.
  - ALL REUSED MATERIALS OR EQUIPMENT SHALL BE IN GOOD CONDITION AND THE SYSTEM SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND IN GOOD WORKING ORDER AT THE COMPLETION OF THE PROJECT.
  - PROVIDE GFI OUTLET WITHIN 25' OF EQUIPMENT IN ACCORDANCE WITH NEC 210.63. PROVIDE WEATHERPROOF GFI OUTLET ON ROOFTOPS WITHIN 25' OF ROOFTOP EQUIPMENT.
  - ALL EXTERIOR RECEPTACLES SHALL BE WEATHER RESISTANT AND ENCLOSED IN A WEATHERPROOF EXTRA DUTY ENCLOSURE WHILE IN USE IN ACCORDANCE WITH NEC 406.9(B).
  - FIELD VERIFY FINAL LOCATION OF ALL EQUIPMENT WITH PROVIDER PRIOR TO ROUGH-IN.
  - ALL RECEPTACLES IN BATHROOMS, KITCHENS, ROOFTOPS, EXTERIOR, AND WITHIN 6FT. OF A SINK, AND ALL OTHER REQUIRED LOCATIONS SHALL BE GFCI (OR SERVED BY A GFI CIRCUIT BREAKER) PER NEC 210.8(B) AND 422.5. THE E.C. SHALL PROVIDE GFCI OUTLETS (OR CIRCUIT BREAKERS) IN ALL LOCATIONS REQUIRED BY THE NEC. PROVIDE GFCI TEST SWITCH (OR GFCI BREAKER) IN READILY ACCESSIBLE LOCATION PER NEC.
  - PER NEC 210.65(B), THE TOTAL QUANTITY OF RECEPTACLES IN THE CONFERENCE ROOM(S) SHALL BE DETERMINED IN ACCORDANCE WITH NEC 210.52, BUT ARE PERMITTED TO BE LOCATED AT THE DESIGNER'S DISCRETION.
  - PROVIDE CONNECTION TO TENANT SIGN. FIELD VERIFY ELECTRICAL REQUIREMENTS AND FINAL LOCATION WITH PROVIDER, TENANT AND LANDLORD. PROVIDE PHOTOCELL, ON/TIME/CLOCK OFF CONTROLS. PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION.
  - NUMBERS NEXT TO DEVICES REFER TO CIRCUIT DESIGNATION IN PANEL 'A' UNLESS NOTED.
  - ALL TELE/DATA LOCATIONS SHALL INCLUDE 4" SQUARE J-BOX AND 3/4" CONDUIT TO CEILING SPACE. ALL TELEPHONE/DATA CABLE IS TO BE PLENUM RATED WIRE OR SHALL BE INSTALLED IN CONDUIT ABOVE CEILING OR IN WALLS.
  - PROVIDE ALL DEMOLITION WORK AS REQUIRED TO ACCOMMODATE THE NEW WORK AS INDICATED ON THE ELECTRICAL PLANS. FIELD VERIFY EXISTING CONDITIONS. PROVIDE ANY ADDITIONAL WORK NECESSARY AS REQUIRED TO PRESERVE EXISTING DEVICES AND BRANCH CIRCUIT COMPONENTS TO REMAIN. REFER TO THE ARCHITECTURAL PLANS FOR DEMOLITION SCOPE OF WORK AND VISIT THE SITE PRIOR TO BID TO DETERMINE THE ELECTRICAL SCOPE OF WORK REQUIRED.
- POWER PLAN KEYED NOTES:**
- TELEPHONE BOARD LOCATION (TTB) - THE EC SHALL FIELD VERIFY EXISTING OR PROVIDE AND INSTALL NEW 36"x48" PLYWOOD BACKBOARD. INSTALL TIGHT TO CEILING AND PAINT TO MATCH WALL. PROVIDE 1" C WITH PULL STRING BACK TO THE BUILDING TELEPHONE/ DATA SERVICE ENTRANCE. PROVIDE DEDICATED NEMA 5-20R RECEPTACLE +84" AFF ON TTB AND CIRCUIT AS SHOWN. FIELD VERIFY LOCATION, MOUNTING HEIGHT AND ORIENTATION AND ADDITIONAL REQUIREMENTS WITH TENANT.
  - IT EQUIPMENT - PROVIDE DEDICATED CIRCUIT WITH DEDICATED GROUND AND NEUTRAL CONDUCTOR. FIELD VERIFY FINAL LOCATION, MOUNTING HEIGHT, ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
  - REUSE EXISTING TIME CLOCK IF FEASIBLE OR PROVIDE NEW AS REQUIRED FOR TIME CLOCK LIGHTING CONTROLS.
  - REMOVE AND REPLACE EXISTING PANELBOARD WITH NEW 400A 208/120V 84-CIRCUIT PANELBOARD. PROVIDE SPACE AND PROTECTION AT PANELBOARD LOCATION AS REQUIRED PER NEC 110 INCLUDING CLEAR FLOOR SPACE IN FRONT OF PANEL, WORKING HEIGHT AND ANY FOREIGN SYSTEM ABOVE.
  - RECEPTACLE CONTROL ZONE - RECEPTACLES IN THIS AREA REQUIRE AUTOMATIC CONTROL PER IECQ 405.11(1). VERIFY FINAL LOCATION AND CONTROL METHOD WITH ARCHITECT AND TENANT.
    - CONTROL AT LEAST 50% OF THE RECEPTACLES IN EACH AREA IN ITS ENTIRETY IF LOCATED NO FURTHER AWAY FROM AN UNCONTROLLED RECEPTACLE. A CONTROLLED RECEPTACLE SHALL BE LOCATED WITHIN 12 INCHES OF EACH UNCONTROLLED RECEPTACLE.
 

OR
    - PROVIDE AND INSTALL LEGRAND PASS AND SEYMOUR 5262QHW OR EQUAL HALF-CONTROLLED PLUG LOAD CONTROLLABLE RECEPTACLES.
  - TV/MONITOR - PROVIDE POWER AND DATA/CATV JACKS AS REQUIRED IN CEILING AND PROVIDE RACEWAY TO VIDEO SOURCE. FIELD VERIFY REQUIREMENTS WITH TENANT AND TV PROVIDER. FIELD VERIFY FINAL LOCATION WITH ARCHITECT PRIOR TO ANY ROUGH-IN.
  - FLOWER BOX POWER - PROVIDE DEDICATED CIRCUIT WITH DEDICATED GROUND AND NEUTRAL CONDUCTOR. FIELD VERIFY FINAL LOCATION, MOUNTING HEIGHT, ELECTRICAL REQUIREMENTS, NUMBER OF WIRES, OUTLET TYPE AND CONFIGURATION WITH PROVIDER PRIOR TO ROUGH-IN.

- AUTOMATIC RECEPTACLE CONTROLS WILL BE REQUIRED PER IECQ 405.11(1). VERIFY FINAL LOCATION AND CONTROL METHOD WITH ARCHITECT AND TENANT.
  - AT LEAST 50% OF ALL 125V 15 AND 20AMP PERMANENTLY INSTALLED RECEPTACLES IN ENCLOSED OFFICES, CONFERENCE ROOMS, COPY/PRINT ROOMS, BREAKROOMS, AND INDIVIDUAL WORKSTATIONS MUST BE SWITCHED OFF VIA ONE OF THREE METHODS LISTED BELOW.
    - SCHEDULE BASED CONTROL.
    - OCCUPANCY SENSOR CONTROLS.
    - A SEPARATE SYSTEM SUCH AS SECURITY SYSTEM.
  - EXCEPTIONS INCLUDE SAFETY AND SECURITY AND RECEPTACLES THAT CONTROL EQUIPMENT THAT IS REQUIRED TO RUN 24/7 365.
  - 25% OF MODULAR FURNITURE RECEPTACLES MUST BE CONTROLLED AUTOMATICALLY.
  - RECEPTACLES CAN BE SPLIT CONTROLLED OR CONTROLLED IN ENTIRETY IF LOCATED NO FURTHER THAN 12" AWAY FROM UNCONTROLLED RECEPTACLE.
    - SCHEDULE BASED CONTROLS REQUIRED:
      - ABILITY TO USE TIME OF DAY SCHEDULING.
      - EACH DAY OF WEEK MUST BE ABLE TO BE PROGRAMMED SEPARATELY.
      - ZONES OF RECEPTACLES CONTROLLED TOGETHER MUST NOT EXCEED 5,000SF.
    - OCCUPANTS MUST BE PROVIDED WITH MANUAL OVERRIDE SWITCH FOR EACH ZONE OF NO MORE THAN 2 HOURS OVERRIDE OUTSIDE OF SCHEDULED HOURS.
  - OCCUPANCY SENSOR CONTROLS.
    - USE THE SAME SENSOR(S) THAT CONTROL THE LIGHTING LOADS IN THE SPACE WITH ADDITIONAL POWER PACKS OR ROOM CONTROLLERS FOR THE PLUG LOAD CIRCUITS, 20-MINUTE MAX TIME-OUT.
  - SEPARATE SYSTEM CONTROLS
    - USING SOMETHING LIKE A SECURITY SYSTEM THAT CAN TURN PLUG LOADS OFF AFTER A SPACE IS VACANT FOR 20 MINUTES.



**PANEL SCHEDULE: A** January 8, 2025

BUS RATING: 400 Amperes 3Ø, 4-WIRE  
MAIN C.B.: 4" M.L.D. 400A  
MOUNTING: Surface  
COMMENTS: New Panelboard

VOLTAGE LL: 208  
VOLTAGE LG: 120  
S.C.R.M.S RATING (AIC): 10,000

NO.	AMPS	POLE	LOAD (VA)	NEC Demand	LOAD DESCRIPTION	Phase	LOAD DESCRIPTION	NEC Demand	LOAD (VA)	POLE	AMPS	NO.
1	20	1	444	1.00	Bathroom First Fl	A	Open Area Recept	1.00	360	1	20	2
3	20	1	360	1.00	Hall Recept/GFI Recept	B	Open Area Recept	1.00	540	1	20	4
9	20	1	370	1.00	FWC	C	Open Area Recept	1.00	360	1	20	6
7	20	1	540	1.00	Spare	A	Open Area TV Recept	1.00	180	1	20	8
9	20	1	540	1.00	Podcast Room Recept	B	Flower Box Power	1.00	250	1	20	10
11	20	1	360	1.00	Podcast Room Recept	C	Storage/Hall Recept	1.00	720	1	20	12
13	20	1	360	1.00	TTB	A	Dishwasher	0.80	650	1	20	14
15	20	1	360	1.00	WH-1	B	Open Area Recept	1.00	360	1	20	16
17	60	3	5000	1.25	WH-1	C	Microwave	0.80	1200	1	20	18
19	60	3	5000	1.25	WH-1	A	Garbage Disposal	0.80	972	1	20	20
21	60	3	5000	1.25	WH-1	B	Refrigerator	0.80	750	1	20	22
23	20	1	208	1.00	GFI Recept/CP-1	C	Reception Recept	1.00	720	1	20	24
25	20	2	1498	1.00	CJH - 3.0KWR	A	Reception Recept	1.00	540	1	20	26
27	20	2	1498	1.00	CJH - 3.0KWR	B	Reception Recept	1.00	720	1	20	28
29	20	1	900	1.00	Treatment Room	C	Reception Recept	1.00	720	1	20	30
31	20	1	720	1.00	Treatment Room	A	Office Equipment	1.00	1000	1	20	32
33	20	1	900	1.00	Treatment Room	B	Numbering Rm Recept	1.00	540	1	20	34
35	20	1	720	1.00	Treatment Room	C	Treatment Room	1.00	900	1	20	36
37	20	1	900	1.00	Hall/Storage Recept	A	Treatment Room	1.00	720	1	20	38
39	20	1	720	1.00	Treatment Room	B	Treatment Room	1.00	900	1	20	40
41	20	1	720	1.00	Treatment Room	C	Treatment Room	1.00	720	1	20	42
43	20	1	720	1.00	Spare	A	Sign	1.00	1200	1	20	44
45	20	1	900	1.00	Body Room Recept	B	Lighting	1.25	774	1	20	46
47	20	1	412	1.00	Bathroom Second Fl	C	Lighting	1.25	792	1	20	48
49	30	3	2412	1.00	RTU1 - 3.0T	A	Lighting	1.25	780	1	20	50
51	30	3	2412	1.00	RTU1 - 3.0T	B	Lighting	1.25	287	1	20	52
53	30	3	2412	1.00	RTU1 - 3.0T	C	RTUB - 4.0T	1.00	3096	3	35	54
55	35	3	3096	1.00	RTU2 - 4.0T	A	RTUB - 4.0T	1.00	3096	3	35	56
57	35	3	3096	1.00	RTU2 - 4.0T	B	RTUB - 4.0T	1.00	3096	3	35	58
59	35	3	3096	1.00	RTU2 - 4.0T	C	RTU7 - 4.0T	1.00	3096	3	35	60
61	35	3	3096	1.00	RTU3 - 4.0T	A	RTU7 - 4.0T	1.00	3096	3	35	62
63	35	3	3096	1.00	RTU3 - 4.0T	B	RTUB - 5.0T	1.00	3432	3	40	64
65	35	3	3096	1.00	RTU3 - 4.0T	C	RTUB - 5.0T	1.00	3432	3	40	66
67	35	3	3096	1.00	RTU4 - 4.0T	A	RTUB - 5.0T	1.00	3432	3	40	68
69	35	3	3096	1.00	RTU4 - 4.0T	B	RTUB - 5.0T	1.00	3432	3	40	70
71	35	3	3096	1.00	RTU4 - 4.0T	C	Rooftop GFI	1.00	720	1	20	72
73	30	3	2412	1.00	RTU5 - 3.0T	A	Treatment Room	1.00	900	1	20	74
75	30	3	2412	1.00	RTU5 - 3.0T	B	Treatment Room	1.00	720	1	20	76
77	30	3	2412	1.00	RTU5 - 3.0T	C	Treatment Room	1.00	900	1	20	78
79	20	2	1498	1.00	CJH - 3.0KWR	A	Treatment Room	1.00	720	1	20	80
81	20	2	1498	1.00	CJH - 3.0KWR	B	Treatment Room	1.00	720	1	20	82
83	20	1	900	1.00	Body Room Recept	C	Treatment Room	1.00	900	1	20	84

CONNECTED LOAD:  
PHASE A (VA): 42,177  
PHASE B (VA): 42,072  
PHASE C (VA): 41,978  
TOTAL LOAD (VA): 126,227

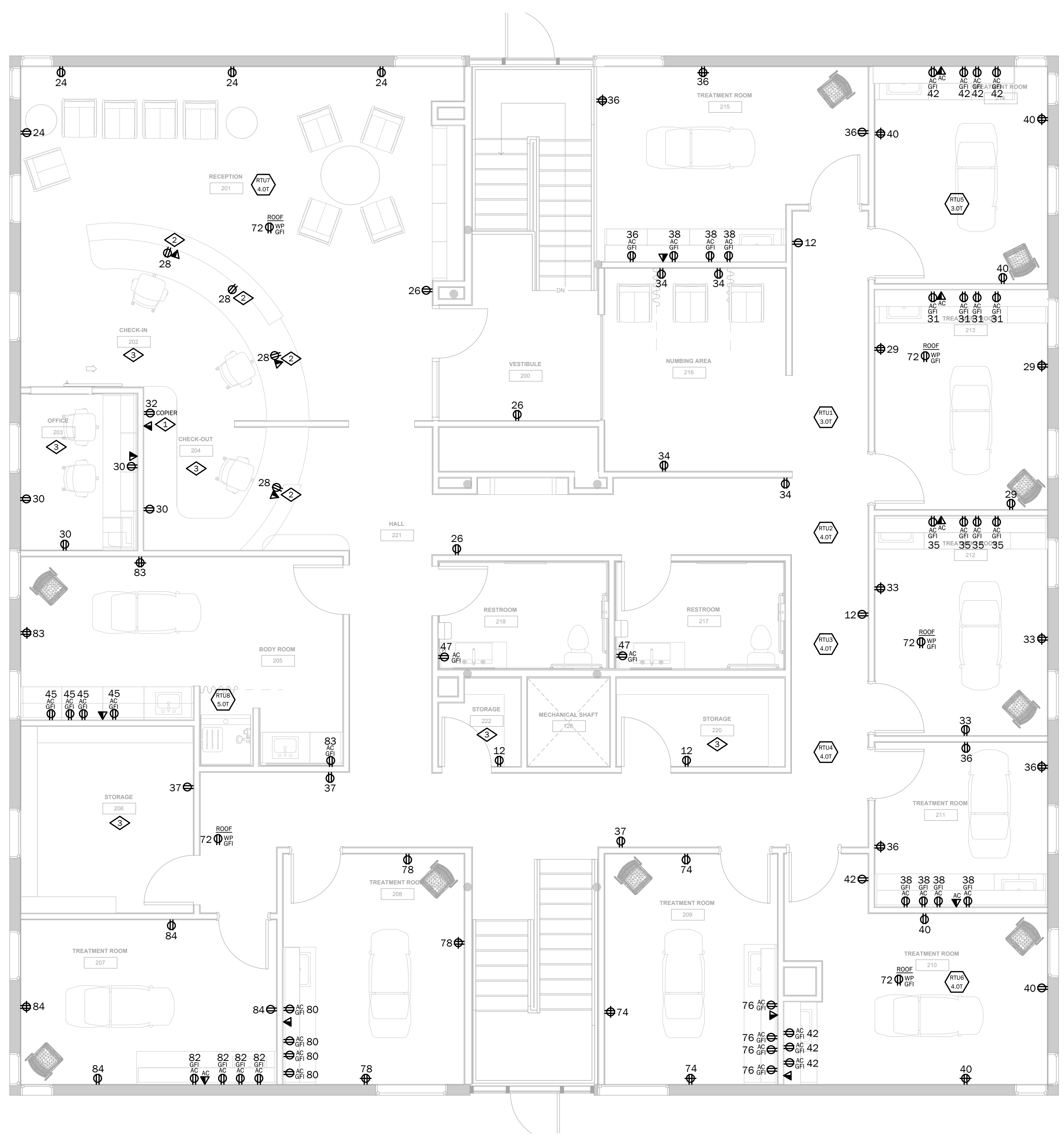
CALCULATED DEMAND LOAD:  
PHASE A (VA): 43,298  
PHASE B (VA): 43,437  
PHASE C (VA): 43,186  
CALCULATED DEMAND LOAD (VA): 129,921  
**360.64 A**

NOTES:  
1. Work shown in lighter lineweight indicates existing loads to be fed from new panel. Provide new breakers and extend branch circuit as required.

**EQUIPMENT SCHEDULE** January 10, 2025

Key	Equipment	Equipment Load	Volt	Ø	Branch Circuit	Conduit	Disconnect	Panel Circuit	Comment	
		kW	HP	Amps	Conductors		Switch	Fuse		
<b>ROOFTOP UNITS</b>										
RTU1	Rooftop Unit	20.1 MCA	208	3	4#10,#10G	3/4"	30A/3P WP	-	A - 49,51.53	
RTU2	Rooftop Unit	25.8 MCA	208	3	4#10,#10G	3/4"	60A/3P WP	-	A - 55,57.59	
RTU3	Rooftop Unit	25.8 MCA	208	3	4#10,#10G	3/4"	60A/3P WP	-	A - 61,63.65	
RTU4	Rooftop Unit	25.8 MCA	208	3	4#10,#10G	3/4"	60A/3P WP	-	A - 37,39.71	
RTU5	Rooftop Unit	20.1 MCA	208	3	4#10,#10G	3/4"	30A/3P WP	-	A - 73,75.77	
RTU6	Rooftop Unit	25.8 MCA	208	3	4#10,#10G	3/4"	60A/3P WP	-	A - 54,56.58	
RTU7	Rooftop Unit	25.8 MCA	208	3	4#10,#10G	3/4"	60A/3P WP	-	A - 60,62.64	
RTU8	Rooftop Unit	28.6 MCA	480	3	4#10,#10G	3/4"	60A/3P WP	-	A - 66,68.70	
<b>WATER HEATERS</b>										
WH-1	Water Heater	15	41.7 A	208	3	4#4,#10G	1-1/4"	60A/3P	-	A - 17,19.21
<b>PUMPS</b>										
CP-1	Circulation Pump	0.028	0.2 A	120	1	2#12,#12G	3/4"	Sto	NA	A - 23 (PART)
<b>ELECTRIC HEAT</b>										
CJH	Unit Heater	3.0	14.4 A	208	1	3#10,#10G	3/4"	30A/2P	-	A - 25.27 A - 79.81

Notes: (Apply to all equipment where applicable)  
1. Field verify final location and confirm electrical requirements of all equipment with provider prior to any work. Confirm all breaker sizes with nameplate data before ordering any materials and provide all work necessary for a complete and code compliant installation.  
2. Provide line voltage controls and wiring as required for proper operation of equipment. Field verify control requirements with equipment provider and field verify final location of controls with owner. Controls shall be installed in an accessible location.  
3. Provide HACR breakers for all dedicated circuits serving equipment and provide local disconnecting means in accordance with NEC 430 Part IX.  
4. Verify integral thermal/overload protection for fractional horsepower motors. Provide separate overload device where required in accordance with NEC 430 Part III.  
5. Electric motors shall meet minimum efficiency requirements in accordance with IECC Tables C405.8(1-4).



1 POWER PLAN - LEVEL 2  
 SCALE: 1/4" = 1'-0"

- POWER PLAN GENERAL NOTES:**
- THIS DESIGN IS DIAGRAMMATICAL. REFER TO MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION MANUALS FOR SPECIFIC LOCATIONS AND INSTALLATION DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS.
  - ALL REUSED MATERIALS OR EQUIPMENT SHALL BE IN GOOD CONDITION AND THE SYSTEM SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND IN GOOD WORKING ORDER AT THE COMPLETION OF THE PROJECT.
  - PROVIDE GFI OUTLET WITHIN 25' OF EQUIPMENT IN ACCORDANCE WITH NEC 210.63. PROVIDE WEATHERPROOF GFI OUTLET ON ROOFTOPS WITHIN 25' OF ROOFTOP EQUIPMENT.
  - ALL EXTERIOR RECEPTACLES SHALL BE WEATHER RESISTANT AND ENCLOSED IN A WEATHERPROOF EXTRA DUTY ENCLOSURE WHILE IN USE IN ACCORDANCE WITH NEC 406.9(B).
  - FIELD VERIFY FINAL LOCATION OF ALL EQUIPMENT WITH PROVIDER PRIOR TO ROUGH-IN.
  - ALL RECEPTACLES IN BATHROOMS, KITCHENS, ROOFTOPS, EXTERIOR, AND WITHIN 6FT. OF A SINK, AND ALL OTHER REQUIRED LOCATIONS SHALL BE GFCI (OR SERVED BY A GFI CIRCUIT BREAKER) PER NEC 210.8(B) AND 422.5. THE E.C. SHALL PROVIDE GFCI OUTLETS (OR CIRCUIT BREAKERS) IN ALL LOCATIONS REQUIRED BY THE NEC. PROVIDE GFCI TEST SWITCH (OR GFCI BREAKER) IN READILY ACCESSIBLE LOCATION PER NEC.
  - PER NEC 210.65(B), THE TOTAL QUANTITY OF RECEPTACLES IN THE CONFERENCE ROOM(S) SHALL BE DETERMINED IN ACCORDANCE WITH NEC 210.52, BUT ARE PERMITTED TO BE LOCATED AT THE DESIGNER'S DISCRETION.
  - PROVIDE CONNECTION TO TENANT SIGN. FIELD VERIFY ELECTRICAL REQUIREMENTS AND FINAL LOCATION WITH PROVIDER, TENANT AND LANDLORD. PROVIDE PHOTOCCELL ON/TIME/CLOCK OFF CONTROLS. PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION.
  - NUMBERS NEXT TO DEVICES REFER TO CIRCUIT DESIGNATION IN PANEL 'A' UNLESS NOTED.
  - ALL TELE/DATA LOCATIONS SHALL INCLUDE 4" SQUARE J-BOX AND 3/4" CONDUIT TO CEILING SPACE. ALL TELEPHONE/DATA CABLE IS TO BE PLENUM RATED WIRE OR SHALL BE INSTALLED IN CONDUIT ABOVE CEILING OR IN WALLS.
  - PROVIDE ALL DEMOLITION WORK AS REQUIRED TO ACCOMMODATE THE NEW WORK AS INDICATED ON THE ELECTRICAL PLANS. FIELD VERIFY EXISTING CONDITIONS. PROVIDE ANY ADDITIONAL WORK NECESSARY AS REQUIRED TO PRESERVE EXISTING DEVICES AND BRANCH CIRCUIT COMPONENTS TO REMAIN. REFER TO THE ARCHITECTURAL PLANS FOR DEMOLITION SCOPE OF WORK AND VISIT THE SITE PRIOR TO BID TO DETERMINE THE ELECTRICAL SCOPE OF WORK REQUIRED.
- POWER PLAN KEYED NOTES:**
- OFFICE EQUIPMENT - PROVIDE DEDICATED CIRCUIT WITH DEDICATED GROUND AND NEUTRAL CONDUCTOR. FIELD VERIFY FINAL LOCATION, MOUNTING HEIGHT, ELECTRICAL REQUIREMENTS, NUMBER OF WIRES, OUTLET TYPE AND CONFIGURATION WITH PROVIDER PRIOR TO ROUGH-IN.
  - RECEPTION DESK - PROVIDE OUTLETS FOR POWER AND DATA IN MILLWORK AS REQUIRED. FIELD VERIFY CONDUIT ROUTING AND J-BOX LOCATIONS WITH MILLWORK PROVIDER AND TENANT PRIOR TO ANY ROUGH-IN. FIELD VERIFY DATA J-BOX AND RACEWAY REQUIREMENTS WITH TENANT IF REPRESENTATIVE.
  - RECEPTACLE CONTROL ZONE - RECEPTACLES IN THIS AREA REQUIRE AUTOMATIC CONTROL PER IECC 405.11(I). VERIFY FINAL LOCATION AND CONTROL METHOD WITH ARCHITECT AND TENANT.
    - CONTROL AT LEAST 50% OF THE RECEPTACLES IN EACH AREA IN ITS ENTIRETY IF LOCATED NO FURTHER AWAY FROM AN UNCONTROLLED RECEPTACLE. A CONTROLLED RECEPTACLE SHALL BE LOCATED WITHIN 12 INCHES OF EACH UNCONTROLLED RECEPTACLE.
    - OR
      - PROVIDE AND INSTALL LEGRAND PASS AND SEYMOUR S262ZHW OR EQUAL HALF-CONTROLLED PLUG LOAD CONTROLLABLE RECEPTACLES.

REVISIONS		
NO	DESCRIPTION	DATE

CONSULTANT: CONSULTANT SEAL:

CONSULTANT PROJECT NO.: **DK24.148**

**ANGEL AESTHETICS**  
 7090 E HAMPDEN AVE  
 DENVER, CO 80224

- AUTOMATIC RECEPTACLE CONTROLS WILL BE REQUIRED PER IECC 405.11(I). VERIFY FINAL LOCATION AND CONTROL METHOD WITH ARCHITECT AND TENANT.
  - AT LEAST 50% OF ALL 125V 15 AND 20AMP PERMANENTLY INSTALLED RECEPTACLES IN ENCLOSED OFFICES, CONFERENCE ROOMS, COPY/PRINT ROOMS, BREAKROOMS, AND INDIVIDUAL WORKSTATIONS MUST BE SWITCHED OFF VIA ONE OF THREE METHODS LISTED BELOW.
    - SCHEDULE BASED CONTROL.
    - OCCUPANCY SENSOR CONTROLS.
    - A SEPARATE SYSTEM SUCH AS SECURITY SYSTEM.
  - EXCEPTIONS INCLUDE SAFETY AND SECURITY AND RECEPTACLES THAT CONTROL EQUIPMENT THAT IS REQUIRED TO RUN 24/7 365.
  - 25% OF MODULAR FURNITURE RECEPTACLES MUST BE CONTROLLED AUTOMATICALLY.
  - RECEPTACLES CAN BE SPLIT CONTROLLED OR CONTROLLED IN ENTIRETY IF LOCATED NO FURTHER THAN 12" AWAY FROM UNCONTROLLED RECEPTACLE.
    - SCHEDULE BASED CONTROLS REQUIRED:
      - ABILITY TO USE TIME OF DAY SCHEDULING.
      - EACH DAY OF WEEK MUST BE ABLE TO BE PROGRAMMED SEPARATELY.
      - ZONES OF RECEPTACLES CONTROLLED TOGETHER MUST NOT EXCEED 5,000SF.
    - OCCUPANTS MUST BE PROVIDED WITH MANUAL OVERRIDE SWITCH FOR EACH ZONE OF NO MORE THAN 2 HOURS OVERRIDE OUTSIDE OF SCHEDULED HOURS.
  - OCCUPANCY SENSOR CONTROLS.
    - USE THE SAME SENSOR(S) THAT CONTROL THE LIGHTING LOADS IN THE SPACE WITH ADDITIONAL POWER PACKS OR ROOM CONTROLLERS FOR THE PLUG LOAD CIRCUITS, 20-MINUTE MAX TIME-OUT.
  - SEPARATE SYSTEM CONTROLS
    - USING SOMETHING LIKE A SECURITY SYSTEM THAT CAN TURN PLUG LOADS OFF AFTER A SPACE IS VACANT FOR 20 MINUTES.

SHEET NAME: **POWER PLAN LEVEL 2**

ISSUE DATE: <b>01/13/2025</b>	ISSUED FOR: <b>PERMIT</b>
DESIGNED: <b>AB</b>	PROJECT NO: <b>2024.55</b>
QAQC: <b>DK</b>	SHEET NO: <b>E101</b>
SCALE: <b>As indicated</b>	

11/4/2024 9:54:53 AM

**COMcheck Software Version COMcheckWeb  
Interior Lighting Compliance Certificate**

**Project Information**

Energy Code: 2021 IECC  
Project Title: Angel Aesthetics  
Project Type: Alteration

Construction Site: 7090 E Hampden Ave  
Denver, Colorado 80224  
Owner/Agent:  
Designer/Contractor:  
Dawn Keller  
D.Keller Electrical Design  
7488 W Layton Place  
Littleton, Colorado 80123  
303.938.6475  
dawn@dkellereng.com

**Allowed Interior Lighting Power**

Area Category	Floor Area (ft <sup>2</sup> )	Allowed Watts / Ft <sup>2</sup>	Allowed Watts
1-Aesthetician Spa (Health Care-Clinic)	5800	0.81	4698
		Total Allowed Watts =	4698

**Proposed Interior Lighting Power**

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Watts (C X D)	E
Aesthetician Spa (Health Care-Clinic, 5800 sq.ft.)				
LED: A: 2'x4' Recessed Troffer: Other:	1	30	40	1200
LED: A1: 2'x4' Recessed Troffer: Other:	1	20	40	800
LED: A2: 2'x2' Recessed Troffer: Other:	1	2	30	60
LED: C: Chandelier: Other:	1	2	18	36
LED: D: 6" Dimmable Downlight: Other:	1	22	13	286
LED: P: 24" Round Pendant: Other:	1	5	27	135
LED: P1: Ceramic Pendant: Other:	1	5	11	55
LED: P2A: Curvilinear Pendant: Other:	1	1	20	20
LED: P2B: Curvilinear Pendant: Other:	1	1	17	17
LED: P2C: Curvilinear Pendant: Other:	1	1	18	18
LED: P2D: Curvilinear Pendant: Other:	1	1	20	20
LED: P2E: Curvilinear Pendant: Other:	1	1	18	18
LED: S: 8" Strip: Other:	1	1	64	64
LED: UC(TP): Undercabinet/Tape Light: Other:	1	112	3	381
LED: V: Vanity: Other:	1	4	19	76
		Total Proposed Watts =		3386

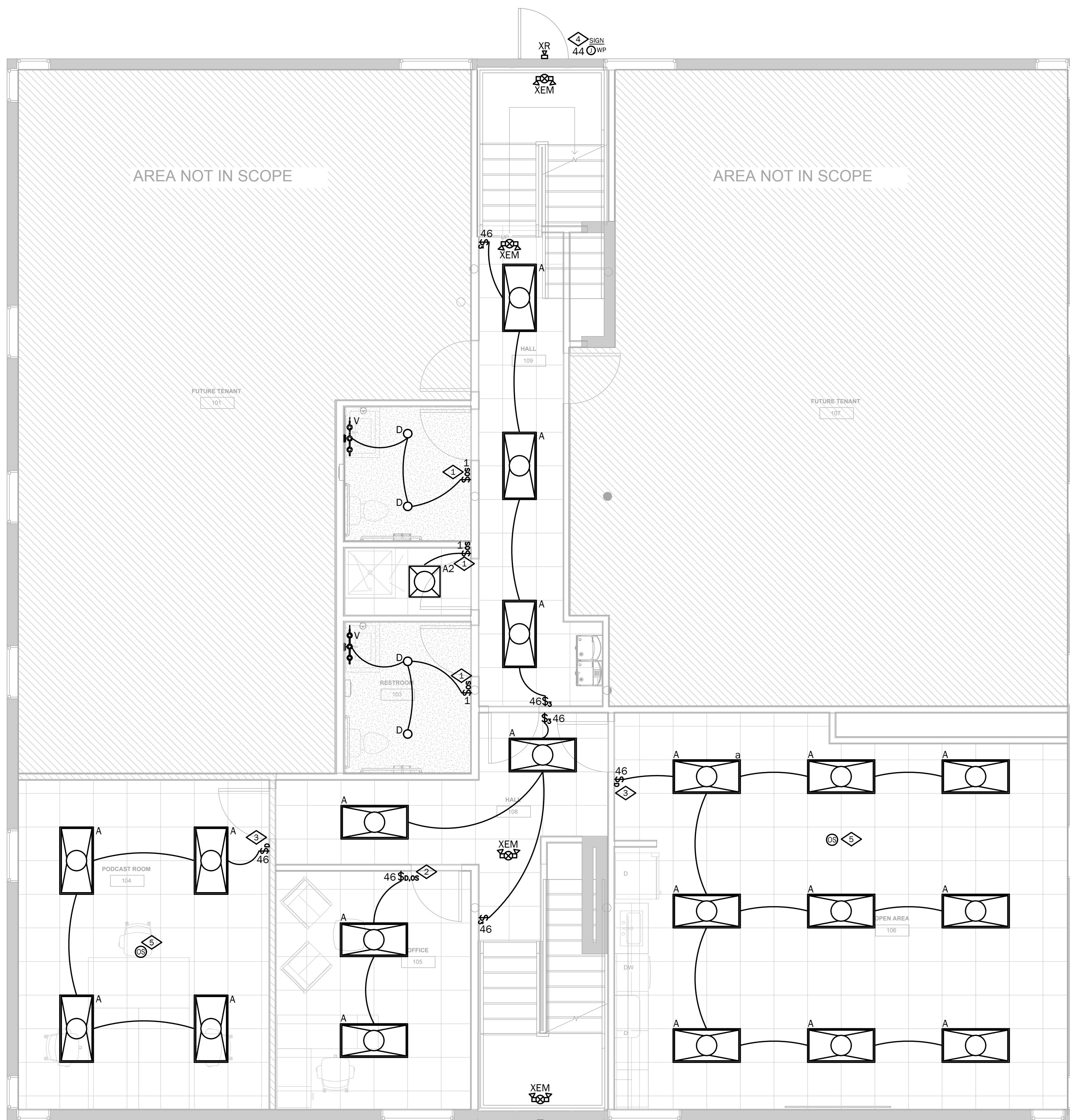
**Interior Lighting PASSES**

**Interior Lighting Compliance Statement**

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Dawn Keller  
Name - Title  
Signature  
01.03.2025  
Date

Label	Light Fixture Description	Specification	Lamping	Voltage	Mounting	Comment
<b>LUMINAIRE SCHEDULE</b>						
January 9, 2025						
<b>Interior Lighting</b>						
A	2'x4' Recessed Architectural Curved Troffer	Acuity Lithonia ENXV 2X4 HRG 4800LM BOCRI 35K MIN1 ZT MVOLT	40W 3500K/80CRI	120/277	Recessed	1
A1	2'x4' Recessed Flat Panel Troffer	Acuity Lithonia CPX 2X4 5000LM BOCRI 50K SWL MIN1 ZT MVOLT	40W 5000K/80CRI	120/277	Recessed	1
A2	2'x2' Recessed Architectural Curved Troffer	Acuity Lithonia ENXV 2X2 HRG 3300LM BOCRI 40K MIN1 ZT MVOLT	30W LED 4000K/80CRI	120/277	Recessed	1
C	Modern LED Chandelier	Modern Forms PD-S3751-XX	18W LED 3000K/90CRI	120/277	Suspended	2
D	6" Dimmable LED Downlight	Acuity Lithonia LBR6 NCH 1DLM 35K AR LSS WD MVOLT UGZ	18W LED 3500K/80CRI	120/277	Recessed	1
P	24" OD Round Soft Edge LED Pendant	Prudential Ltg Gaze-RDS 24 LED35 MO XX D1 SC UVV SSC DM01	27W LED 3500K/80CRI	120/277	Suspended	1
P1	Ceramic Pendant E26 Socket	Maurit A636-410	11W LED E26 Max 3500K/80CRI	120	Suspended	1 or 2
P2A	Curvilinear Surface LED	Beta Galco PULC1C01 LPF017 CR80 CTA35 V1 DA01 FAXX	20W LED 3500K/80CRI	120/277	Suspended	1
P2B	Curvilinear Surface LED	Beta Galco PULC1C04 LPF017 CR80 CTA35 V1 DA01 FAXX	17W LED 3500K/80CRI	120/277	Suspended	1
P2C	Curvilinear Surface LED	Beta Galco PULC1C07 LPF017 CR80 CTA35 V1 DA01 FAXX	18W LED 3500K/80CRI	120/277	Suspended	1
P2D	Curvilinear Surface LED	Beta Galco PULC1C10 LPF017 CR80 CTA35 V1 DA01 FAXX	20W LED 3500K/80CRI	120/277	Suspended	1
P2E	Curvilinear Surface LED	Beta Galco PULC1C13 LPF017 CR80 CTA35 V1 DA01 FAXX	18W LED 3500K/80CRI	120/277	Suspended	1
S	8" Lensed LED strip light	Acuity Lithonia CLX L96 10000LM SEP FDA MVOLT G210 35K BOCRI WH	63.7W 3500K/90CRI	120/277	Surface	1
UC	Specification Grade Tape Light 500 Lumen g/ft. With Channel provide all components to make complete system	Kelex EZ-502-U3-35K-W	3.4W p/ft 4000K/90CRI	24V	Surface	1
V	25" Bathroom Vanity	WAC WS-41125-BK	19W LED 3500K/90 CRI	120/277	Surface	1
<b>Emergency Exit Signs and Egress Lighting</b>						
XEM	Combination Exit Sign/Emergency Egress Light with 90-Minute Battery Pack and dual heads	Acuity Lithonia LHQM LED	4.3W	120/277	Surface	3.4
XR	Exterior LED Emergency light	Acuity Lithonia AFB 06L DBR7D MVOLT LTP-WT CW	12W	120/277	Surface	3.4
NOTES: Apply to all fixtures where applicable:						
1. EMERGENCY FIXTURES - All Fixtures Indicated as Emergency shall be provided with a 90-Minute Battery Pack with minimum 1300 Lumen output.						
2. VERIFY VOLTAGES - The E.C. shall verify voltages on drawings prior to ordering or any work, the engineer shall be notified of any discrepancies in the voltage of the circuiting on the drawings and the luminaire schedule prior to any purchase or work.						
3. VERIFY LAMPING - The E.C. shall verify lamping with the manufacturer prior to ordering and notify the engineer of any lamping discrepancies.						
4. PROVIDE A COMPLETE INSTALLATION - The E.C. shall provide all labor and material to provide a complete and functional system per the design intent as dictated by the switching type and location (including dimmer switches and compatible ballasts or transformers), ceiling type and location, circuiting, voltages, and lamping types.						
5. LED LIGHTING - All light fixtures shall be LED. Non-LED fixtures shall be provided with an LED equivalent lamp, unless otherwise noted.						
6. OWNER APPROVAL - Approve all light fixture types with tenant/owner before ordering any materials or any work.						
7. EXTERIOR LIGHTING - Fixtures installed outdoors shall be UL listed Wet Location and provided with cold weather drivers/ballast/battery as required for proper operation.						
8. DIMMING COMPATIBILITY - Fixtures noted as dimmable on plans shall be provided with dimmable drivers paired with compatible dimming controls approved by the fixture manufacturer. The E.C. shall be responsible for providing compatible LED Drivers and dimming control devices rated for connected load.						
9. CITY OF DENVER - Exit signs shall have green lettering on a contrasting field, or white lettering on a green field per DBCA 1011.4.1.						
COMMENTS: Apply to specific fixture types as noted on schedule.						
1. 0-10V Dimming - Provide low voltage wiring between all fixtures and low-voltage wallbox dimmer. Verify requirements with provider and provide all work required for a complete installation.						
2. PHASE Dimming - Provide compatible Phase Control Dimmer. Verify requirements with provider and provide all work required for a complete installation.						
3. WET LOCATION - Provide fixture with UL Listed Wet Location Label.						
4. COLD WEATHER - Provide fixture with Cold Weather Driver/Ballast/Battery for fixtures installed outdoors.						



1 LIGHTING PLAN - LEVEL 1  
SCALE: 1/4" = 1'-0"

**LIGHTING PLAN GENERAL NOTES:**

- THIS DESIGN IS DIAGRAMMATICAL. REFER TO MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION MANUALS FOR SPECIFIC LOCATIONS AND INSTALLATION DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS.
- ALL REUSED MATERIALS OR EQUIPMENT SHALL BE IN GOOD CONDITION AND THE SYSTEM SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND IN GOOD WORKING ORDER AT THE COMPLETION OF THE PROJECT.
- CONNECT EGRESS LIGHTING FIXTURES AND EXIT SIGNS TO AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCH PER NEC 700.12(1) INCLUDING ANY NIGHT LIGHTS. FIXTURES SHOWN SHADED OR LABELED ARE EMERGENCY EGRESS (EM) WITH BATTERY PACK, NIGHT LIGHT (NL) OR BOTH (EM/NL).
- PROVIDE OUTLET IN ACCESSIBLE LOCATION AT TENANT ENTRANCE FOR SIGN PER NEC 600.5.
- NUMBERS NEXT TO DEVICES REFER TO CIRCUIT DESIGNATION IN PANEL 'A' UNLESS NOTED.
- 2'x4' LIGHT FIXTURES ARE TYPE 'A' AND DOWNLIGHTS ARE TYPE 'D' UNLESS NOTED.
- EXIT SIGNS TYPE 'X' AND/OR 'XEM' AND EGRESS LIGHTS TYPE 'EM' SHALL BE NEW WITH EMERGENCY BATTERY PACK, MATCH EXISTING BUILDING STANDARD FIXTURES.
- PROVIDE NEUTRAL AND GROUND CONDUCTORS THROUGHOUT ALL LIGHTING BRANCH CIRCUITS INCLUDING ALL SWITCH OR LIGHTING CONTROL DEVICE LOCATIONS IN ACCORDANCE WITH NEC.

**LIGHTING CONTROL NOTES:**

- PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM IN ACCORDANCE WITH ENERGY CODE AND IECC REQUIREMENTS AND COMPATIBLE WITH INSTALLED LIGHT FIXTURE TYPES. PROVIDE ANY ADDITIONAL POWER/SWITCH PACKS, SENSORS, DIMMING MODULES, POWER AND CONTROL WIRING OR OTHER SENSOR/POWER/CONTROL INTERFACE DEVICE THAT IS NECESSARY FOR A COMPLETE INSTALLATION.
- ONE POWER PACK (SWITCH PACK) IS NEEDED PER CIRCUIT/ZONE TO BE CONTROLLED BY LOW VOLTAGE SENSORS. NOT ALL REQUIRED COMPONENTS ARE SHOWN ON DRAWINGS. LOCATE POWER PACKS IN AN ACCESSIBLE, INCONSPICUOUS LOCATION. POWER PACK LOCATIONS SHALL BE CONSISTENT THROUGHOUT PROJECT AND CLEARLY NOTED ON AS-BUILT DRAWINGS.
- ADDITIONAL SENSORS AND TYPES OF SENSORS MAY BE REQUIRED TO PROVIDE COMPLETE COVERAGE DEPENDING ON FINAL PARTITION HEIGHT/PLACEMENT, FURNITURE PLACEMENT, EQUIPMENT HEIGHT/PLACEMENT, AND SHELVING HEIGHT/PLACEMENT. CONTRACTOR TO COORDINATE WITH MANUFACTURER/SUPPLY SHOP DRAWINGS ACCORDINGLY.
- PLACE AND ORIENT CEILING SENSORS PER MANUFACTURER SUPPLIED SHOP DRAWINGS FOR MAXIMUM COVERAGE/SENSITIVITY.
- PROVIDE LOW VOLTAGE OR LINE VOLTAGE, PASSIVE INFRARED (PIR), ULTRASONIC, OR DUAL TECHNOLOGY, DAYLIGHT/HARVESTING, PHOTOSENSOR, AND VACANCY SENSORS AS REQUIRED IN EACH ILLUMINATED AREA FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- WHERE LIGHT SWITCHES ARE USED IN ADDITION TO OCCUPANCY SENSORS, LIGHT SWITCH SHALL OVERRIDE OCCUPANCY SENSOR (SWITCH CAN TURN LIGHTS OFF WHEN OCCUPANCY SENSOR CALLS FOR THEM TO BE ON; SWITCH CANNOT TURN LIGHTS ON WHEN OCCUPANCY SENSOR TURNS THEM OFF, SWITCH AND OCCUPANCY SENSOR ARE WIRED IN SERIES).
- PROVIDE 10 MINUTE TIME (OFF) DELAYS IN STORAGE ROOMS AND SMALL RESTROOMS, ALL OTHERS SHALL HAVE 20 MINUTE DELAYS.
- PROVIDE WIRE GUARDS IN ANY AREA WHERE SENSORS ARE SUBJECT TO DAMAGE.
- PROVIDE SENSORS SUITABLE FOR COLD WEATHER APPLICATIONS WHERE LOCATED IN ANY UNHEATED AREA.
- PROVIDE ADDITIONAL POLES (OR AUX RELAY) FOR CONTROL OF EXHAUST FANS, OR SIMILAR DEVICES, WHERE SHOWN ON DRAWINGS AND/OR NOTED IN MECHANICAL SCHEDULES AND AS REQUIRED FOR IECC COMPLIANCE.
- LOW VOLTAGE WIRING ABOVE ACCESSIBLE CEILING PERMITTED WHERE PLENUM RATED AND INSTALLED PER CODE REQUIREMENTS.
- FIXTURES CONTROLLED BY DIMMERS SHALL BE PROVIDED WITH ALL REQUIRED DIMMING EQUIPMENT AND CONNECTIONS MADE (AND DAYLIGHT CONTROL WHERE APPLICABLE) WITH COMPATIBLE DIMMER AND DRIVER TYPES FOR PROPER DIMMING OPERATION.
- FIELD VERIFY ALL CONTROL DEVICE TYPES, LOCATIONS, SCENE SELECTIONS, NUMBER OF SWITCHING ZONES, DIMMING CAPABILITIES, WITH BUILDING OWNER AND TENANT/OCCUPANTS PRIOR TO ORDERING MATERIALS OR ANY ROUGH-IN.
- PROVIDE AUTOMATIC LIGHTING CONTROLS FOR ALL INTERIOR LIGHTS TO BE TURNED OFF WHEN SPACE IS SCHEDULED TO BE UNOCCUPIED IN ACCORDANCE WITH IECC REQUIREMENTS. PROVIDE MULTI-POLE LIGHTING CONTROL WITH NUMBER OF POLES SUFFICIENT FOR ALL INTERIOR LIGHTING CIRCUITS. PROVIDE 7-DAY PROGRAMMABLE TIME CLOCK ON/OFF CONTROLS WITH MANUAL OVERRIDE SWITCH THAT WILL ALLOW LIGHTING TO REMAIN ON NO LONGER THAN 2 HOURS AND AUTOMATIC HOLIDAY SCHEDULING FEATURE THAT WILL TURN LIGHTS OFF FOR A 24 HOUR PERIOD. FIELD VERIFY LOCATION OF OVERRIDE SWITCH LOCATION WITH OWNER. PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION.

**LIGHTING PLAN KEYED NOTES:**

- \*NOTE: PROVIDE ALTERNATE QUOTE FOR NIGHT AIR WIRELESS CONTROLS.
- WALLSWITCH OCCUPANCY SENSOR - PROVIDE DUAL TECHNOLOGY SENSORSWITCH WSXA-PDT SERIES OR EQUAL.
  - DIMMING WALLSWITCH OCCUPANCY SENSOR - PROVIDE DUAL TECHNOLOGY SENSORSWITCH WSXA-PDT-D SERIES OR EQUAL RATED FOR CONNECTED LOAD TYPE AND WATTAGE COMPATIBLE WITH ALL CONNECTED LIGHT FIXTURES. PROVIDE LOW VOLTAGE WIRING FOR ANY 0-10V DIMMING AS REQUIRED.
  - WALLSTATION DIMMER SWITCH - PROVIDE SENSORSWITCH SPDMRA SERIES OR EQUAL RATED FOR CONNECTED LOAD TYPE AND WATTAGE COMPATIBLE WITH ALL CONNECTED LIGHT FIXTURES. PROVIDE LOW VOLTAGE WIRING FOR ANY 0-10V DIMMING AS REQUIRED.
  - TENANT SIGN - FIELD VERIFY EXISTING OR PROVIDE NEW DEDICATED CIRCUIT AND FINAL CONNECTIONS AS REQUIRED. FIELD VERIFY ELECTRICAL REQUIREMENTS AND FINAL LOCATION WITH PROVIDER, TENANT AND LANDLORD. PROVIDE PHOTOCELL ON/TIMELOCK OFF CONTROLS.
  - CEILING OCCUPANCY SENSOR - PROVIDE DUAL TECHNOLOGY AND SWITCH PACK SENSORSWITCH CM-PDT SERIES SENSOR AND P20 POWER/SWITCH PACK OR EQUAL. VERIFY AND PROVIDE AS REQUIRED FOR MAXIMUM ROOM SIZE AND FIELD OF VIEW REQUIREMENTS. PROVIDE DAYLIGHT SENSING OPTION AS REQUIRED IN DAYLIGHT ZONES.

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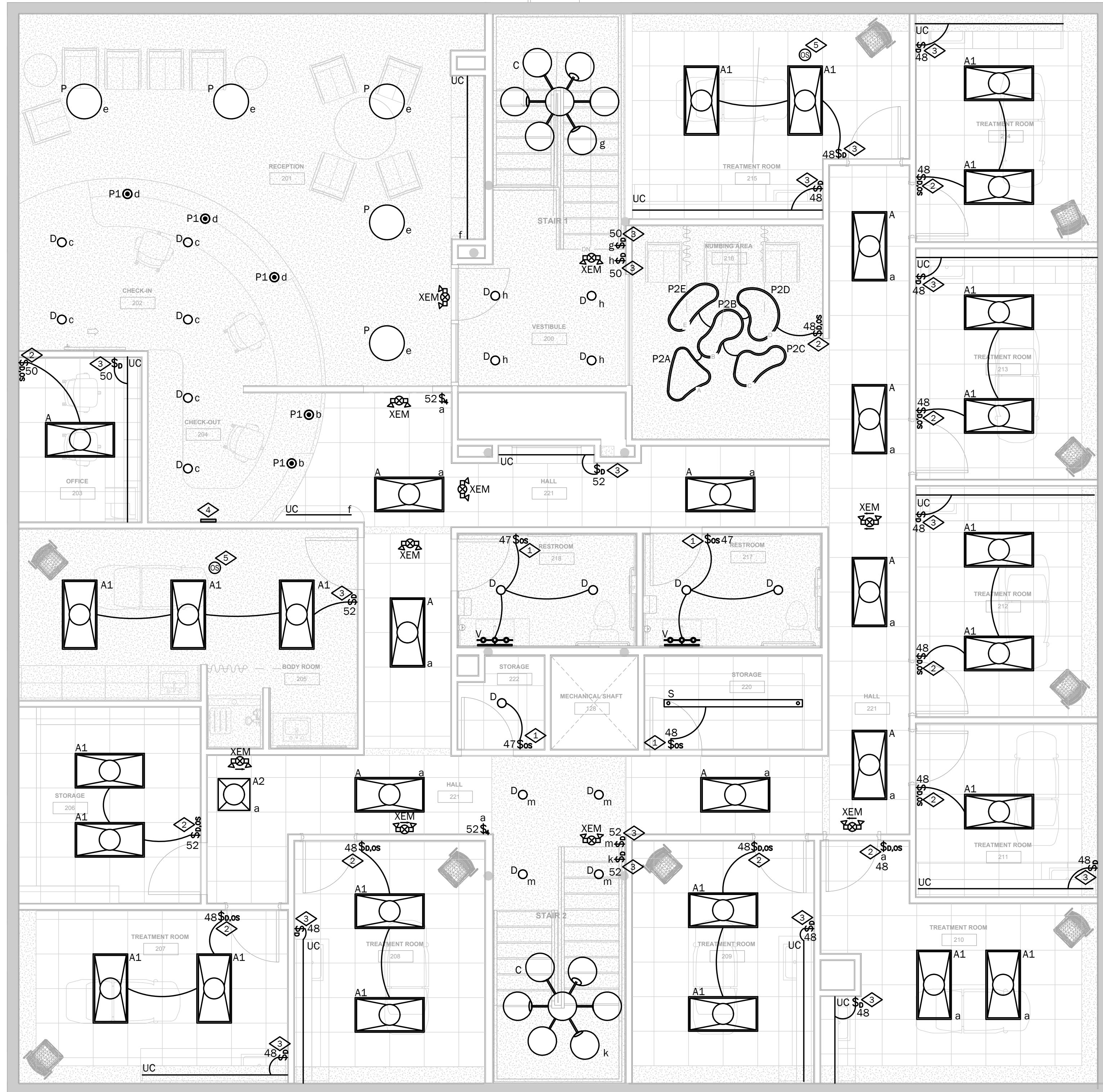
CONSULTANT SEAL:  
COLORADO LICENSED  
ELECTRICAL ENGINEER  
55872  
1/11/2025

CONSULTANT PROJECT NO.: DK24.148

**ANGEL AESTHETICS**  
7090 E HAMPDEN AVE  
DENVER, CO 80224

SHEET NAME:  
**LIGHTING PLAN  
LEVEL 1**

ISSUE DATE: 01/13/2025	ISSUED FOR: PERMIT
DESIGNED: AB	PROJECT NO: 2024.55
QAQC: DK	SHEET NO: E200
SCALE: As indicated	



1 LIGHTING PLAN - LEVEL 2  
SCALE: 1/4" = 1'-0"

LIGHTING PLAN GENERAL NOTES:

- THIS DESIGN IS DIAGRAMMATICAL. REFER TO MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION MANUALS FOR SPECIFIC LOCATIONS AND INSTALLATION DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS.
- ALL REUSED MATERIALS OR EQUIPMENT SHALL BE IN GOOD CONDITION AND THE SYSTEM SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND IN GOOD WORKING ORDER AT THE COMPLETION OF THE PROJECT.
- CONNECT EGRESS LIGHTING FIXTURES AND EXIT SIGNS TO AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCH PER NEC 700.12(1) INCLUDING ANY NIGHT LIGHTS. FIXTURES SHOWN SHADED OR LABELED ARE EMERGENCY EGRESS (EM) WITH BATTERY PACK, NIGHT LIGHT (NL) OR BOTH (EM/NL).
- PROVIDE OUTLET IN ACCESSIBLE LOCATION AT TENANT ENTRANCE FOR SIGN PER NEC 600.5.
- NUMBERS NEXT TO DEVICES REFER TO CIRCUIT DESIGNATION IN PANEL 'A' UNLESS NOTED.
- EXIT SIGNS TYPE 'Y' AND/OR 'XEM' AND EGRESS LIGHTS TYPE 'EM' SHALL BE NEW WITH EMERGENCY BATTERY PACK. MATCH EXISTING BUILDING STANDARD FIXTURES.
- PROVIDE NEUTRAL AND GROUND CONDUCTORS THROUGHOUT ALL LIGHTING BRANCH CIRCUITS INCLUDING ALL SWITCH OR LIGHTING CONTROL DEVICE LOCATIONS IN ACCORDANCE WITH NEC.

LIGHTING CONTROL NOTES:

- PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM IN ACCORDANCE WITH ENERGY CODE AND IECC REQUIREMENTS AND COMPATIBLE WITH INSTALLED LIGHT FIXTURE TYPES. PROVIDE ANY ADDITIONAL POWER/SWITCH PACKS, SENSORS, DIMMING MODULES, POWER AND CONTROL WIRING, OR OTHER SENSOR/POWER/CONTROL INTERFACE DEVICE THAT IS NECESSARY FOR A COMPLETE INSTALLATION.
- ONE POWER PACK (SWITCH PACK) IS NEEDED PER CIRCUIT/ZONE TO BE CONTROLLED BY LOW VOLTAGE SENSORS. NOT ALL REQUIRED COMPONENTS ARE SHOWN ON DRAWINGS. LOCATE POWER PACKS IN AN ACCESSIBLE, INCONSPICUOUS LOCATION. POWER PACK LOCATIONS SHALL BE CONSISTENT THROUGHOUT PROJECT AND CLEARLY NOTED ON AS-BUILT DRAWINGS.
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- PROVIDE LOW VOLTAGE OR LINE VOLTAGE, PASSIVE INFRARED (PIR), ULTRASONIC, OR DUAL TECHNOLOGY, DAYLIGHT/HARVESTING, PHOTODIODE, AND VACANCY SENSORS AS REQUIRED IN EACH ILLUMINATED AREA FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- WHERE LIGHT SWITCHES ARE USED IN ADDITION TO OCCUPANCY SENSORS, LIGHT SWITCH SHALL OVERRIDE OCCUPANCY SENSOR (SWITCH CAN TURN LIGHTS OFF WHEN OCCUPANCY SENSOR CALLS FOR THEM TO BE ON; SWITCH CANNOT TURN LIGHTS ON WHEN OCCUPANCY SENSOR TURNS THEM OFF, SWITCH AND OCCUPANCY SENSOR ARE WIRED IN SERIES).
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- PROVIDE SENSORS SUITABLE FOR COLD WEATHER APPLICATIONS WHERE LOCATED IN ANY UNHEATED AREA.
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- LOW VOLTAGE WIRING ABOVE ACCESSIBLE CEILINGS PERMITTED WHERE PLENUM RATED AND INSTALLED PER CODE REQUIREMENTS.
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- FIELD VERIFY ALL CONTROL DEVICE TYPES, LOCATIONS, SCENE SELECTIONS, NUMBER OF SWITCHING ZONES, DIMMING CAPABILITIES, WITH BUILDING OWNER AND TENANT/OCCUPANTS PRIOR TO ORDERING MATERIALS OR ANY ROUGH-IN.
- PROVIDE AUTOMATIC LIGHTING CONTROLS FOR ALL INTERIOR LIGHTS TO BE TURNED OFF WHEN SPACE IS SCHEDULED TO BE UNOCCUPIED IN ACCORDANCE WITH IECC REQUIREMENTS. PROVIDE MULTIPOLAR LIGHTING CONTROLLER WITH NUMBER OF POLES SUFFICIENT FOR ALL INTERIOR LIGHTING CIRCUITS. PROVIDE 7-DAY PROGRAMMABLE TIME CLOCK ON/OFF CONTROLS WITH MANUAL OVERRIDE SWITCH THAT WILL ALLOW LIGHTING TO REMAIN ON NO LONGER THAN 2 HOURS AND AUTOMATIC HOLIDAY SCHEDULING FEATURE THAT WILL TURN LIGHTS OFF FOR A 24 HOUR PERIOD. FIELD VERIFY LOCATION OF OVERRIDE SWITCH LOCATION WITH OWNER. PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION.

LIGHTING PLAN KEYED NOTES:

\*NOTE: PROVIDE ALTERNATE QUOTE FOR NIGHT AIR WIRELESS CONTROLS.

- WALLSWITCH OCCUPANCY SENSOR - PROVIDE DUAL TECHNOLOGY SENSORSWITCH WSXA-PDT SERIES OR EQUAL.
- DIMMING WALLSWITCH OCCUPANCY SENSOR - PROVIDE DUAL TECHNOLOGY SENSORSWITCH WSXA-PDT-D SERIES OR EQUAL RATED FOR CONNECTED LOAD TYPE AND WATTAGE COMPATIBLE WITH ALL CONNECTED LIGHT FIXTURES. PROVIDE LOW VOLTAGE WIRING FOR ANY 0-10V DIMMING AS REQUIRED.
- WALLSTATION DIMMER SWITCH - PROVIDE SENSORSWITCH SPDMRA SERIES OR EQUAL RATED FOR CONNECTED LOAD TYPE AND WATTAGE COMPATIBLE WITH ALL CONNECTED LIGHT FIXTURES. PROVIDE LOW VOLTAGE WIRING FOR ANY 0-10V DIMMING AS REQUIRED.
- WALLBOX LIGHTING CONTROLLER - PROVIDE DIMMING CONTROL DEVICE, ALL SWITCH PACKS, DIMMING MODULES, POWER AND CONTROL WIRING AND ALL OTHER COMPONENTS AS REQUIRED FOR A COMPLETE INSTALLATION. SEE LIGHTING CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.

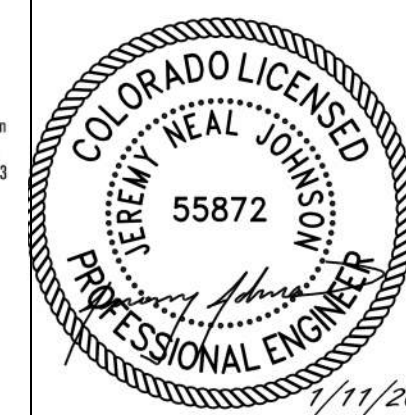
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REVISIONS

NO	DESCRIPTION	DATE

CONSULTANT:

CONSULTANT SEAL:



CONSULTANT PROJECT NO.:

DK24.148

ANGEL AESTHETICS

7090 E HAMPDEN AVE  
DENVER, CO 80224

SHEET NAME:

LIGHTING PLAN  
LEVEL 2

ISSUE DATE:

01/13/2025

ISSUED FOR:

PERMIT

DESIGNED:

AB

PROJECT NO.:

2024.55

QA/QC:

DK

SHEET NO.:

E202

SCALE:

As indicated

MECHANICAL SPECIFICATIONS

SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED STEEL PER SMACNA DUCT CONSTRUCTION STANDARDS. SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DUCTWORK SHALL BE CONSTRUCTED FOR 2" WC STATIC PRESSURE. SPIRAL LOCK-FORMED ROUND DUCT MAY BE UTILIZED WHERE SPACE ALLOWS. TRANSVERSE JOINTS AND LONGITUDINAL SEAMS SHALL BE SEALED AIR-TIGHT WITH MASTIC, MASTIC SHALL BE APPLIED ONLY TO THE INSIDE OF EXPOSED DUCTWORK. RADIUSSED ELBOWS (R/D=1.5) OR MITERED ELBOWS WITH SINGLE THICKNESS TURNING VANES SHALL BE UTILIZED WHERE POSSIBLE. TURNING VANES SHALL BE SUPPORTED AT INTERVALS OF 36" MAXIMUM. TURNING VANE RUNNERS SHALL HAVE A VANE IN EVERY SLOT AND SHALL CONFORM TO SMACNA DUCT CONSTRUCTION STANDARDS FOR STANDARD SPACING.

INSULATED, FACTORY FABRICATED, FLEXIBLE DUCTWORK MAY BE UTILIZED AT RUNOUTS TO AIR DIFFUSERS WHERE DUCTWORK IS CONCEALED ABOVE CEILINGS. FLEXIBLE DUCTWORK SHALL CONSIST OF AN EXTERIOR REINFORCED LAMINATED VAPOR BARRIER, R-6.0 MINIMUM FIBERGLASS INSULATION AND INTERIOR VINYL LINER WITH SPRING STEEL WIRE HELIX. VINYL LINER SHALL NOT BE PERFORATED. FLEXIBLE DUCT ASSEMBLY SHALL HAVE A FLAME SPREAD/SMOKE DEVELOPED RATING OF 25/50 OR LESS. FLEXIBLE DUCT TO FLEXIBLE DUCT CONNECTIONS SHALL BE MADE WITH FACTORY FABRICATED STEEL COLLARS. FLEXIBLE DUCT SHALL BE SECURED TO RIGID DUCTWORK AND AIR DEVICES WITH SCREWS AND DRAWBANDS. LENGTH OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5' AND SHALL NOT BE COMPRESSED. FLEXIBLE DUCT SHALL NOT PASS THROUGH WALLS.

ALL SUPPLY AND RETURN RECTANGULAR DUCTWORK SHALL BE PROVIDED WITH DUCT LINER (INSIDE THE DUCT): ONE INCH THICK, RESIN BONDED GLASS FIBER, IMMOBILIZED, EPA-REGISTERED ANTIMICROBIAL AGENT COATING ON AIR STREAM SURFACE, RATED BY MANUFACTURER FOR AT LEAST 4000 FPM AND MEETING THE REQUIREMENTS OF ASTM C1071 TYPE I. FIRE RESISTANCE SHALL MEET REQUIREMENTS OF NFPA 90A. FLAME SPREAD RATING NOT TO EXCEED 25. FUEL CONTRIBUTION AND SMOKE DEVELOPMENT NOT TO EXCEED 50. NOISE REDUCTION COEFFICIENT (NRC) OF NOT LESS THAN 0.60 WHEN TESTED IN ACCORDANCE WITH ASTM C423 USING AN "A" MOUNTING OR A MINIMUM OF 0.70 USING AN "F" MOUNTING. K VALUE NOT MORE THAN 0.26 BTUH PER SQUARE FOOT PER DEG. F AT 75 DEG. F OR AN "R" VALUE OF 4. MAXIMUM ABSOLUTE ROUGHNESS FACTOR PER FOOT OF .004

SUPPLY AND RETURN AIR DUCTWORK SHALL BE INSULATED WITH R-6 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES WITHIN THE BUILDING ENVELOPE AND R-12 WHEN LOCATED OUTSIDE OF THE BUILDING THERMAL ENVELOPE. OUTSIDE AIR INTAKE DUCTS INSTALLED IN CONDITIONED AREAS SHALL BE INSULATED WITH R-6.0 INSULATION. DUCT INSULATION TO BE FLEXIBLE FIBERGLASS WITH FOIL SCRIM FACING. INSULATION SHALL HAVE A MAXIMUM CONDUCTIVITY, K-VALUE, OF 0.29 AT 75F AND HAVE FLAME SPREAD/SMOKE DEVELOPED RATING OF 25/50 OR LESS. INSULATION SHALL BE SECURED WITH WIRE TIES AT 12" ON CENTER OR WITH SELF-SEALING LAP AND TAPE JOINTS 3" ON CENTER AT FITTINGS. JOINTS SHALL BE COVERED WITH 3" WIDE FOIL REINFORCED KRAFT TAPE. ADHESIVE OR MECHANICAL FASTENERS SHALL BE USED WHERE NECESSARY TO PREVENT SAGGING. VAPOR BARRIER PENETRATIONS BY MECHANICAL FASTENERS SHALL BE SEALED WITH VAPOR BARRIER ADHESIVE. INSULATION SHALL STOP AND POINT AROUND ACCESS DOORS AND DAMPER OPERATORS TO ALLOW OPERATION WITHOUT DISTURBING WRAPPING.

DUCT HANGERS SHALL BE CONSTRUCTED OF GALVANIZED STEEL. DUCTS SHALL BE SUPPORTED AND CONNECTED TO THE STRUCTURE PER SMACNA DUCT CONSTRUCTION STANDARDS. HANGERS AND SUPPORTS FOR GREASE DUCT SHALL BE OF NONCOMBUSTIBLE MATERIALS. FLEXIBLE DUCTS SHALL BE SUPPORTED WITH GALVANIZED STRAPS.

HEAVY FLEXIBLE CONNECTIONS SHALL BE FURNISHED AND INSTALLED AT DUCT CONNECTIONS TO FANS AND AIR HANDLING UNITS 1/2 HP OR LARGER EXCEPT HIGH TEMPERATURE KITCHEN HOOD EXHAUST FANS. FLEXIBLE CONNECTIONS SHALL BE 6" MINIMUM AND 10" MAXIMUM IN LENGTH. MATERIAL FOR INTERIOR INSTALLATIONS SHALL BE VENTIFLEX MANUFACTURED BY VENTFABRICS, EXCELON MANUFACTURED BY DURO-DYNE OR APPROVED EQUAL. MATERIAL FOR EXTERIOR INSTALLATIONS SHALL BE VENTLON MANUFACTURED BY VENTFABRICS, DUROLON MANUFACTURED BY DURO-DYNE OR APPROVED EQUAL.

MANUAL VOLUME DAMPERS SHALL BE FURNISHED AND INSTALLED WHERE INDICATED AT SUPPLY AIR DUCT RUNOUTS TO AIR DIFFUSERS AND GRILLES AS NEAR AS POSSIBLE TO THE TRUNK DUCT. MANUAL VOLUME DAMPERS FOR RECTANGULAR DUCT SHALL BE CONSTRUCTED OF 16 GAUGE GALVANIZED STEEL AND BE THE OPPOSED BLADE TYPE. MANUAL VOLUME DAMPERS FOR ROUND DUCT SHALL BE CONSTRUCTED OF 16 GAUGE GALVANIZED STEEL AND BE THE SINGLE BLADE TYPE. DAMPER BEARINGS SHALL BE NYLON. STAND-OFFS TO OUTSIDE OF INSULATION SHALL BE PROVIDED FOR MANUAL VOLUME DAMPERS IN INSULATED DUCT. LOCKING AND INDICATING QUADRANTS SHALL BE PROVIDED WHERE DAMPER IS ACCESSIBLE. REMOTE CEILING OPERATORS SHALL BE FURNISHED AND INSTALLED FOR DAMPERS ABOVE INACCESSIBLE CEILINGS. OPERATORS SHALL BE GEAR AND LINKAGE TYPE EQUAL TO YOUNG REGULATOR WITH CHROME PLATED CEILING ESCUTCHEON AND COVER PLATE.

FIRE, SMOKE, COMBINATION FIRE SMOKE, AND CEILING RADIATION DAMPERS LISTED AND BEARING THE LABEL OF AN APPROVED TESTING AGENCY INDICATING COMPLIANCE WITH UL 555, UL 555S, AND UL 555C AS REQUIRED FOR THE ASSEMBLY BEING PENETRATED SHALL BE FURNISHED AND INSTALLED IN COMPLIANCE WITH IBC, IMC, AND NFPA WHERE SHOWN ON PLANS AND/OR AS DESCRIBED IN SCHEDULES. DAMPERS ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING AND INSTALLATION INSTRUCTIONS. DAMPERS IN STALLED IN FAN SYSTEMS WHERE THE FANS ARE NOT PROVIDED WITH EMERGENCY FAN SHUT-DOWN UPON DETECTION OF FIRE ARE REQUIRED TO BE LABELED FOR OPERATION IN DYNAMIC SYSTEMS.

DAMPERS SHALL BE PROVIDED WITH AN APPROVED MEANS OF ACCESS, LARGE ENOUGH TO PERMIT INSPECTION AND MAINTENANCE OF THE DAMPER AND ITS OPERATING PARTS. THE ACCESS SHALL NOT AFFECT THE INTEGRITY OF FIRE-RESISTANCE-RATED ASSEMBLIES. THE ACCESS OPENINGS SHALL NOT REDUCE THE FIRE-RESISTANCE RATING OF THE ASSEMBLY. ACCESS POINTS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A LABEL HAVING LETTERS NOT LESS THAN 0.5 INCH IN HEIGHT READING: FIRE/SMOKE DAMPER, SMOKE DAMPER OR FIRE DAMPER. ACCESS DOORS IN DUCTS SHALL BE TIGHT FITTING AND SUITABLE FOR THE REQUIRED DUCT CONSTRUCTION.

AIR DEVICES SHALL BE AS SCHEDULED. EXPOSED SCREWS SHALL BE THE FINISHING TYPE AND PAINTED TO MATCH THE AIR DEVICE. SQUARE TO ROUND ADAPTORS SHALL BE PROVIDED WHERE REQUIRED FOR AIR DEVICES IN CEILINGS. AIR DEVICES SHALL BE FINISHED WITH WHITE BAKED ENAMEL UNLESS NOTED OTHERWISE. AIR DEVICES SHALL BE SECURED TO T-BAR CEILINGS WHERE APPLICABLE.

EQUIPMENT AND CONDENSATE DRAINS SHALL BE TYPE M HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS. COPPER TUBING SHALL BE SOLDERED WITH 95-5 TIN-ANTIMONY SOLDER OR BRAZED WITH SILVER BASED FILLER MATERIAL. DRAINS SHALL BE ROUTED SO AS NOT TO CREATE A TRIPPING HAZARD.

PENETRATIONS OF FIRE RATED WALLS OR FLOORS BY PIPE OR DUCT SHALL BE SEALED BY A FIRESTOPPING SYSTEM UL LISTED FOR THE APPLICATION. INSTALL PENETRATION SEAL MATERIALS IN ACCORDANCE WITH PRINTED INSTRUCTIONS OF THE UL FIRE RESISTANCE DIRECTORY AND MANUFACTURERS INSTRUCTIONS. FIRESTOPPING SYSTEM SHALL BE EQUAL TO 3M FIRE BARRIER. FIRESTOPPING MATERIAL SHALL BE CAULK OR PUTTY TYPE.

MECHANICAL EQUIPMENT SHALL BE SECURED AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND APPLICABLE SECTIONS OF THE JURISDICTIONAL BUILDING AND MECHANICAL CODES.

ROOF CURB ASSEMBLIES SHALL CONSIST OF HEAVY GAUGE GALVANIZED STEEL CONSTRUCTION, WITH INTEGRAL BASE PLATE, 3# DENSITY INSULATION AND 2 X 2 NAILER.

EQUIPMENT RAIL SUPPORTS 18 GA. GALVANIZED STEEL, UTILIZED CONSTRUCTION WITH INTEGRAL BASE PLATE, CONTINUOUS WELDED CORNER SEAMS PRESSURE TREATED WOOD NAILER, COUNTERFLASHING WITH LAG SCREWS. INTERNALLY REINFORCED TO CONFORM WITH LOAD BEARING FACTORS. STANDARD WOOD NAILER SHALL HAVE A OVERHANGING UNLESS OTHERWISE SPECIFIED.

MECHANICAL EQUIPMENT SHALL BE IDENTIFIED WITH BAKELITE NAMEPLATES. COLOR CODING OF NAMEPLATES AND IDENTIFICATION INFORMATION SHALL BE COORDINATED WITH THE OWNER.

GENERAL NOTES

- 1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE CODES, LOCAL CODES, AND OWNER'S STANDARDS INDICATED BY THE CONSTRUCTION DOCUMENTS.
2. MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK, VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
3. CONTRACTOR SHALL COORDINATE WORK INDICATED WITH PLUMBING, ELECTRICAL, FIRE PROTECTION, STRUCTURAL, AND ARCHITECTURAL DIVISIONS. VERIFY FIT OF MECHANICAL SYSTEMS PRIOR TO FABRICATION. COORDINATE ALL CHASE, SLEEVE, AND SLAB BLOCKOUT REQUIREMENTS BEFORE CONCRETE IS POURED OR BLOCK IS SET.
4. PROVIDE ALL EQUIPMENT SCHEDULED OR INDICATED ON THE DRAWINGS BUT NOT INCLUDED WITHIN THE SPECIFICATIONS INCLUDING ANY REQUIRED BUT NOT LISTED MISC ITEMS NEEDED TO PROVIDE COMPLETELY OPERATIONAL SYSTEMS AS INDICATED WHETHER SPECIFICALLY CALLED FOR OR NOT. INSTALLATION SHALL CONFORM TO MANUFACTURERS RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE SUBMITTALS FOR ALL PROPOSED EQUIPMENT AND MATERIALS TO BE UTILIZED. PROVIDE OPERATION AND MAINTENANCE MANUAL FOR ALL SYSTEMS AND EQUIPMENT AT END OF PROJECT.
5. ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT SHALL BE VERIFIED WITH ELECTRICAL DRAWINGS AND ELECTRICAL CONTRACTOR PRIOR TO EQUIPMENT ORDER RELEASE. ADDITIONAL ELECTRICAL WORK RESULTING FROM EQUIPMENT SUBSTITUTION IS THE RESPONSIBILITY OF THIS CONTRACTOR.
6. DRAIN PIPING FROM EQUIPMENT SHALL BE ROUTED SO AS NOT TO CREATE A TRIPPING HAZARD. COORDINATE ACTUAL DRAIN CONNECTIONS WITH PLUMBING CONTRACTOR.
7. ITEM DESIGNATIONS INDICATED HEREON ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH OWNERS REPRESENTATIVE ACTUAL "TAGGING" INFORMATION TO BE PROVIDED FOR EACH ITEM OF MECHANICAL EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
8. PROVIDE 18" x 18" MINIMUM ACCESS DOOR IN INACCESSIBLE CEILINGS AND WALLS FOR EQUIPMENT AND VALVES REQUIRING ACCESS OR ADJUSTMENT. COORDINATE LOCATIONS AND SUBMIT TO ARCHITECT FOR APPROVAL PRIOR TO BEGINNING WORK.
9. DUCT SIZES INDICATED ARE OUTSIDE SHEETMETAL DIMENSIONS, BRANCH RUNOUT DUCTS TO DIFFUSERS AND GRILLES TO BE SAME SIZE AS DIFFUSER OR GRILLE CONNECTION SIZE UNLESS OTHERWISE NOTED.
10. LENGTH OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'-0" MAX. HORIZONTAL RUN WITH ONLY ONE 90° ELBOW PERMITTED. SECURE FLEXIBLE DUCTWORK WITH SCREWS & DRAWBANDS PER SMACNA STANDARDS.
11. CEILING DIFFUSERS SHALL BE 36" MINIMUM FROM CEILING MOUNTED SMOKE DETECTORS, COORDINATE WITH DIVISION 26.
12. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ACTUAL LOCATION OF GRILLES, DIFFUSERS, AND ACCESS DOORS IN CEILING. SECURE DIFFUSERS & GRILLES TO T-BAR CEILINGS WHERE APPLICABLE.
13. DUCTWORK VISIBLE BEHIND DIFFUSERS, REGISTERS, OR GRILLES SHALL BE PAINTED FLAT BLACK.
14. AT THE COMPLETION OF WORK, PROVIDE TESTING AND BALANCING SERVICES FOR MECHANICAL SYSTEM. SUBMIT WRITTEN REPORT TO ARCHITECT LISTING SYSTEM AIRFLOWS, ELECTRIC DATA, TEMPERATURES, AND PRESSURE DROPS.
15. AT THE COMPLETION OF THE WORK AND PRIOR TO FINAL ACCEPTANCE, ALL PARTS OF THE WORK INSTALLED UNDER THIS SPECIFICATION SHALL BE THOROUGHLY CLEANED.
16. ALL EQUIPMENT, MATERIALS, AND INSTALLATION IS TO BE WARRANTED FOR ONE YEAR TO BE FREE FROM DEFECT. PROVIDE WRITTEN WARRANTY TO OWNER.
17. THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM HIS WORK.
18. THIS CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, ELECTRICAL CONDUIT, STRUCTURAL MEMBERS, ETC., PRIOR TO STARTING OF CONSTRUCTION. COORDINATE CONFLICTS WITH THE GENERAL CONTRACTOR.
19. THIS CONTRACTOR SHALL COORDINATE ALL REQUIRED EXISTING BUILDING SERVICE SYSTEM OUTAGES WITH BUILDING MANAGEMENT.
20. ALL MECHANICAL SYSTEMS ARE REQUIRED TO BE INSTALLED PER BASE BUILDING REQUIREMENTS, LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
21. PATCH AND REPAIR TO MATCH EXISTING, ANY WALL/CEILINGS TO BE ACCESSED TO ROUTE PIPING AND DUCTWORK.
22. EXISTING DUCTWORK, PIPING, AND EQUIPMENT TO REMAIN IS SHOWN LIGHT. NEW DUCTWORK, PIPING, AND EQUIPMENT IS SHOWN HEAVY.

SHEET INDEX

Table with columns: SHEET NO., SHEET DESCRIPTION. Includes rows for M001 (MECHANICAL COVER SHEET), M200 (LEVEL 1 MECHANICAL PLAN), M201 (LEVEL 2 MECHANICAL PLAN), M202 (ROOF MECHANICAL PLAN), M301 (MECHANICAL SCHEDULES), and M401 (MECHANICAL DETAILS).

MECHANICAL LEGEND

Legend table with columns: ABBR, SYMBOL, DESCRIPTION. Lists symbols for DRAIN, REFRIGERANT LIQUID, REFRIGERANT SUCTION, PUMPED DRAIN, THERMOSTAT, MANUAL VOLUME DAMPER, OPPOSED BLADE DAMPER, BACKDRAFT DAMPER, SUPPLY AIR, RETURN AIR, EXHAUST AIR, LINED DUCTWORK, DIFFUSER, GRILLE, STATIC PRESSURE, GALVANIZED BIRD SCREEN, EXTERNAL STATIC PRESSURE, WATER COLUMN, AIR PRESSURE DROP, FIBERGLASS, UNLESS NOTED OTHERWISE, CONSTANT VOLUME, WORKING PRESSURE, TOTAL STATIC PRESSURE, ABOVE FINISHED FLOOR, EXISTING, NEW, POINT OF CONNECTION NEW TO EXISTING.



88 INVERNESS CIRCLE E. J101 ENGLEWOOD, CO 80112 PHONE: 720.724.3149 EMAIL: info@designstudio-blue.com designstudio-blue.com

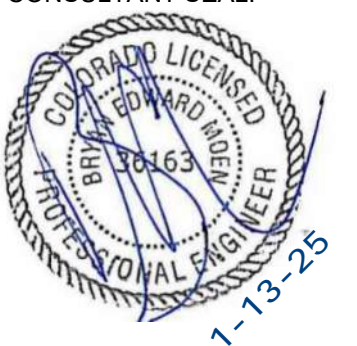
REVISIONS

Table with columns: NO, DESCRIPTION, DATE. Empty revision table.

CONSULTANT:



CONSULTANT SEAL:



CONSULTANT PROJECT NO.: 2024-097-01

ANGEL AESTHETICS

7090 E HAMPDEN AVE DENVER, CO 80224

SHEET NAME:

MECHANICAL COVER SHEET

ISSUE DATE: 01/13/2025 ISSUED FOR: PERMIT & CONSTRUCTION

DESIGNED: TMB PROJECT NO: 2024.55

QA/QC: BEM SHEET NO:

SCALE: As indicated M001


**KEYNOTES**

- ① PROVIDE AND INSTALL NEW EXHAUST GRILLE. CONNECT RUN-OUT DUCT, SIZED TO MATCH GRILLE NECK AND ROUTE BACK TO EA MAIN AND CONNECT WITH NEW TAP. BALANCE TO CFM INDICATED.
- ② PROVIDE AND INSTALL NEW CEILING DIFFUSER. CONNECT RUN-OUT DUCT, SIZED TO MATCH DIFFUSER NECK AND ROUTE BACK TO SA MAIN AND CONNECT WITH NEW TAP WITH MVD. BALANCE TO CFM INDICATED. (TYPICAL)
- ③ PROVIDE AND INSTALL NEW RA GRILLE. (TYPICAL)
- ④ EXISTING SA ROUTED BETWEEN TRUSSES, CAP AND SEAL ALL UN-USED OPENINGS.
- ⑤ EXISTING RA ROUTED BETWEEN TRUSSES. PROVIDE FULL SIZE OPENING IN RA DUCT ROUTED BETWEEN TRUSSES WITH GALVANIZED BIRDSCREEN ON OPENING.
- ⑥ SA AND RA DUCTS TERMINATED IN CEILING SPACE OF FUTURE TENANT AREAS. ROUTE DUCTS UP AS HIGH AS POSSIBLE BETWEEN JOISTS AND TERMINATE WITH GALVANIZED BIRDSCREEN AT OPENINGS.

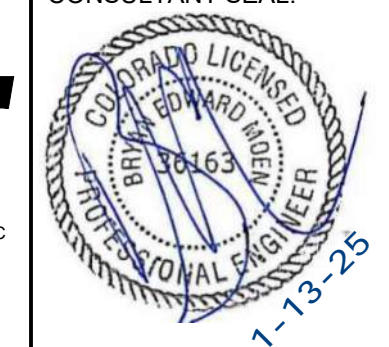
**REVISIONS**

NO	DESCRIPTION	DATE

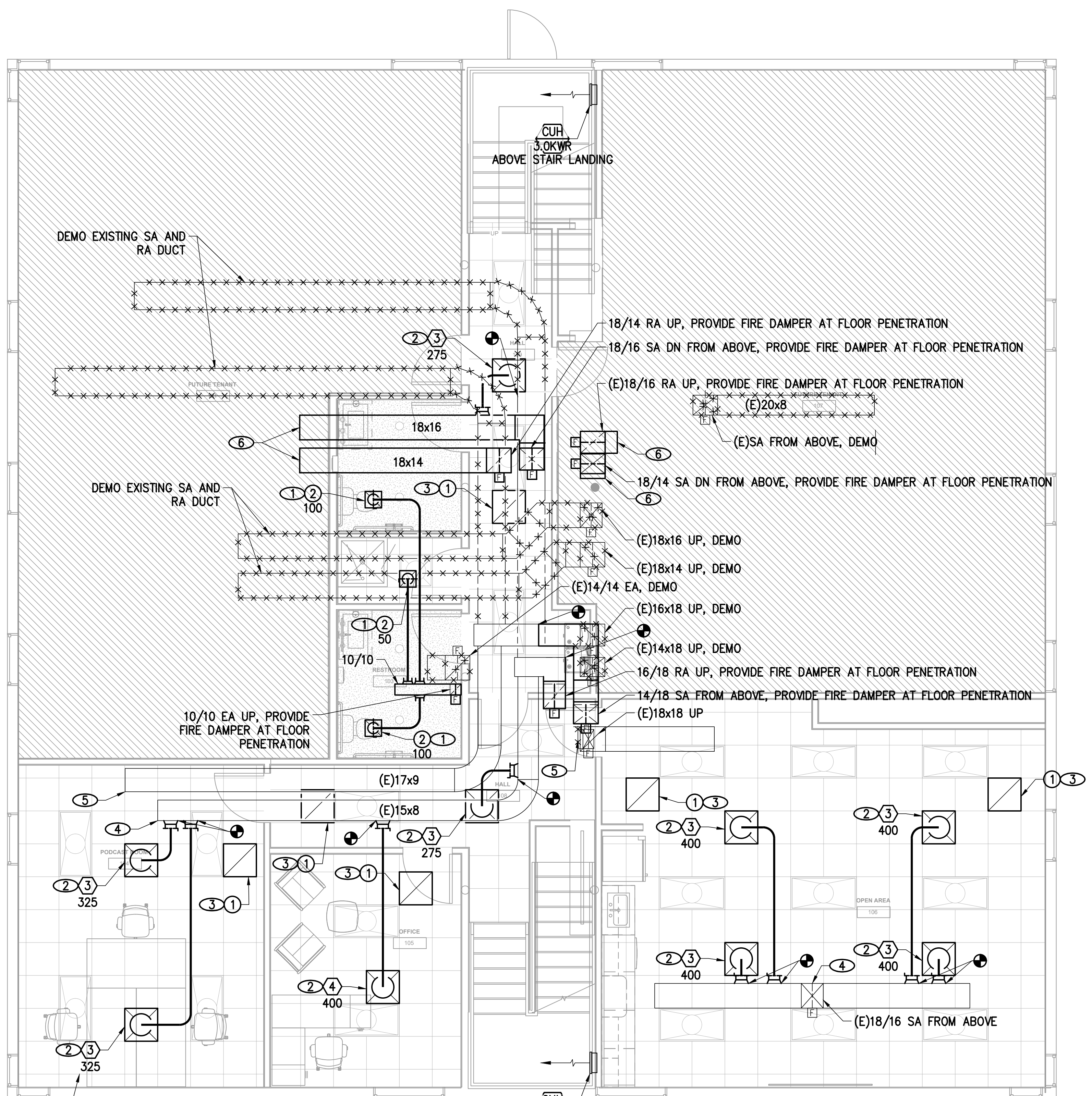
CONSULTANT:



CONSULTANT SEAL:



CONSULTANT PROJECT NO.: 2024-097-01



NOTE: CEILING SPACE TO BE USED AS A RETURN AIR PLENUM. ALL WRING, PIPING, AND OTHER MATERIALS LOCATED IN PLENUM SPACE ARE TO BE NON-COMBUSTIBLE AND PLENUM RATED.

**LEVEL 1 MECHANICAL PLAN**  
 1/4" = 1'-0"  
 1 M200

**ANGEL AESTHETICS**  
 7090 E HAMPDEN AVE  
 DENVER, CO 80224

SHEET NAME: <b>LEVEL 1 MECHANICAL PLAN</b>	
ISSUE DATE: 01/13/2025	ISSUED FOR: PERMIT & CONSTRUCTION
DESIGNED: TMB	PROJECT NO: 2024.55
QA/QC: BEM	SHEET NO: M200
SCALE: As indicated	


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**KEYNOTES**

- ① PROVIDE AND INSTALL NEW EXHAUST GRILLE. CONNECT RUN-OUT DUCT, SIZED TO MATCH GRILLE NECK AND ROUTE BACK TO EA MAIN AND CONNECT WITH NEW TAP. BALANCE TO CFM INDICATED.
- ② PROVIDE AND INSTALL NEW CEILING DIFFUSER. CONNECT RUN-OUT DUCT, SIZED TO MATCH DIFFUSER NECK AND ROUTE BACK TO SA MAIN AND CONNECT WITH NEW TAP WITH MVD. BALANCE TO CFM INDICATED. (TYPICAL)
- ③ PROVIDE AND INSTALL NEW RA GRILLE. (TYPICAL)
- ④ EXISTING SA ROUTED BETWEEN TRUSSES. CAP AND SEAL ALL UN-USED OPENINGS.
- ⑤ EXISTING RA ROUTED BETWEEN TRUSSES. PROVIDE FULL SIZE OPENING IN RA DUCT ROUTED BETWEEN TRUSSES WITH GALVANIZED BIRDSCREEN ON OPENING.

REVISIONS

NO	DESCRIPTION	DATE

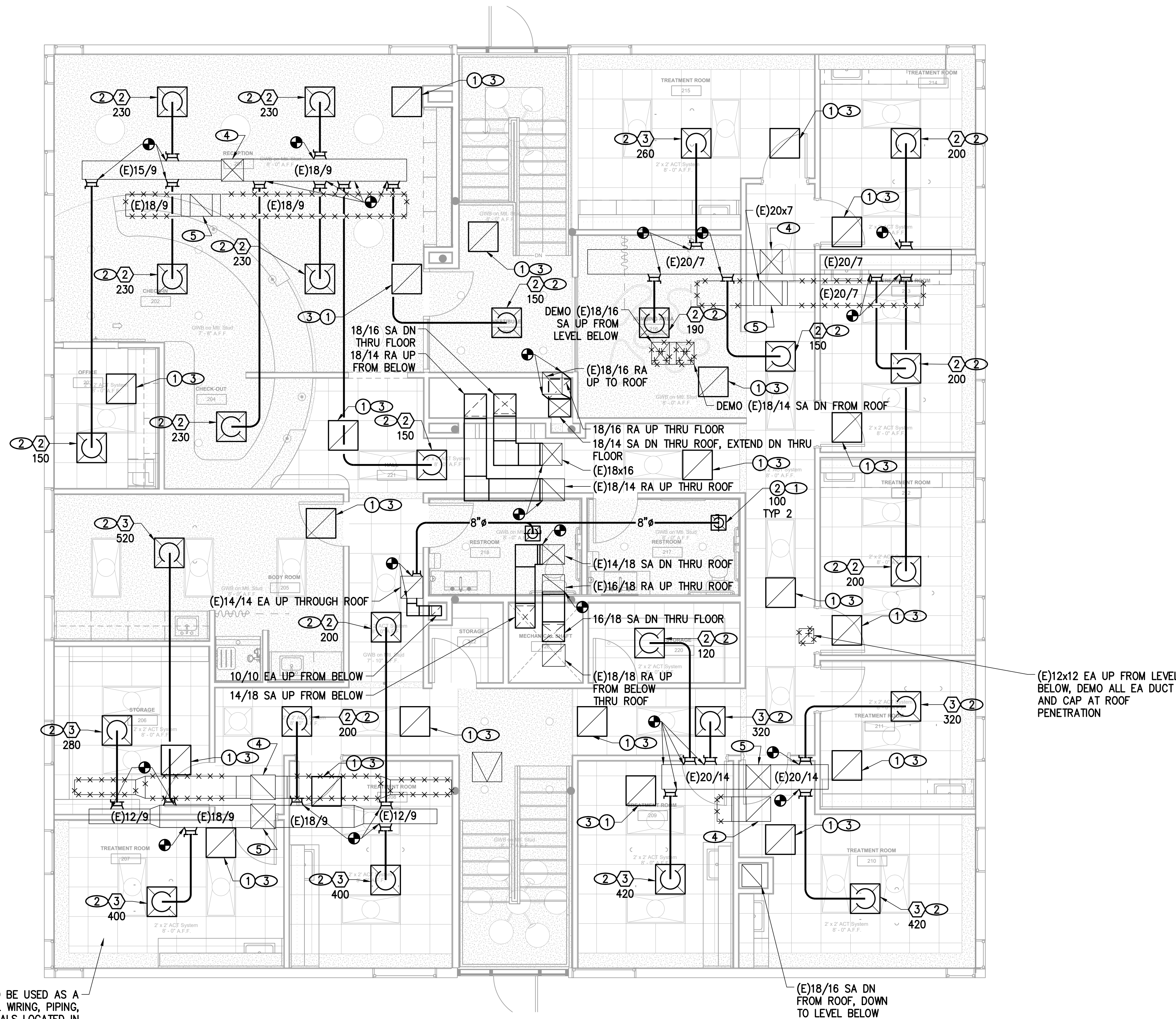
CONSULTANT:  **MEC**  
 MODERN ENGINEERING CONSULTANTS INC.  
 6660 PACE STREET - UNIT F  
 DENVER, CO 80211  
 P: (303) 967-4265

CONSULTANT SEAL:   
 1-12-23

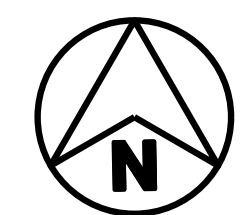
CONSULTANT PROJECT NO.: 2024-097-01

**ANGEL AESTHETICS**

7090 E HAMPDEN AVE  
 DENVER, CO 80224



NOTE: CEILING SPACE TO BE USED AS A RETURN AIR PLENUM. ALL WIRING, PIPING, AND OTHER MATERIALS LOCATED IN PLENUM SPACE ARE TO BE NON-COMBUSTIBLE AND PLENUM RATED.



**LEVEL 2 MECHANICAL PLAN 1**  
 1/4" = 1'-0"  
 M201

SHEET NAME: <b>LEVEL 2 MECHANICAL PLAN</b>	
ISSUE DATE: 01/13/2025	ISSUED FOR: PERMIT & CONSTRUCTION
DESIGNED: TMB	PROJECT NO: 2024.55
QA/QC: BEM	SHEET NO: M201
SCALE: As indicated	

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**KEYNOTES**

- ① REPLACE EXISTING RTU WITH NEW RTU, NEW RTU IS SAME CAPACITY WITH SIMILAR GAS AND ELECTRICAL LOADS AS EXISTING RTU. NEW RTU WEIGHTS SAME OR LESS THAN EXISTING RTU. CONNECT NEW SA, RA, GAS, AND ELECTRICAL TO NEW RTU.
- ② EXISTING EXHAUST FAN TO REMAIN, TURN OFF FAN AND DISCONNECT FROM ELECTRICAL SERVICE.

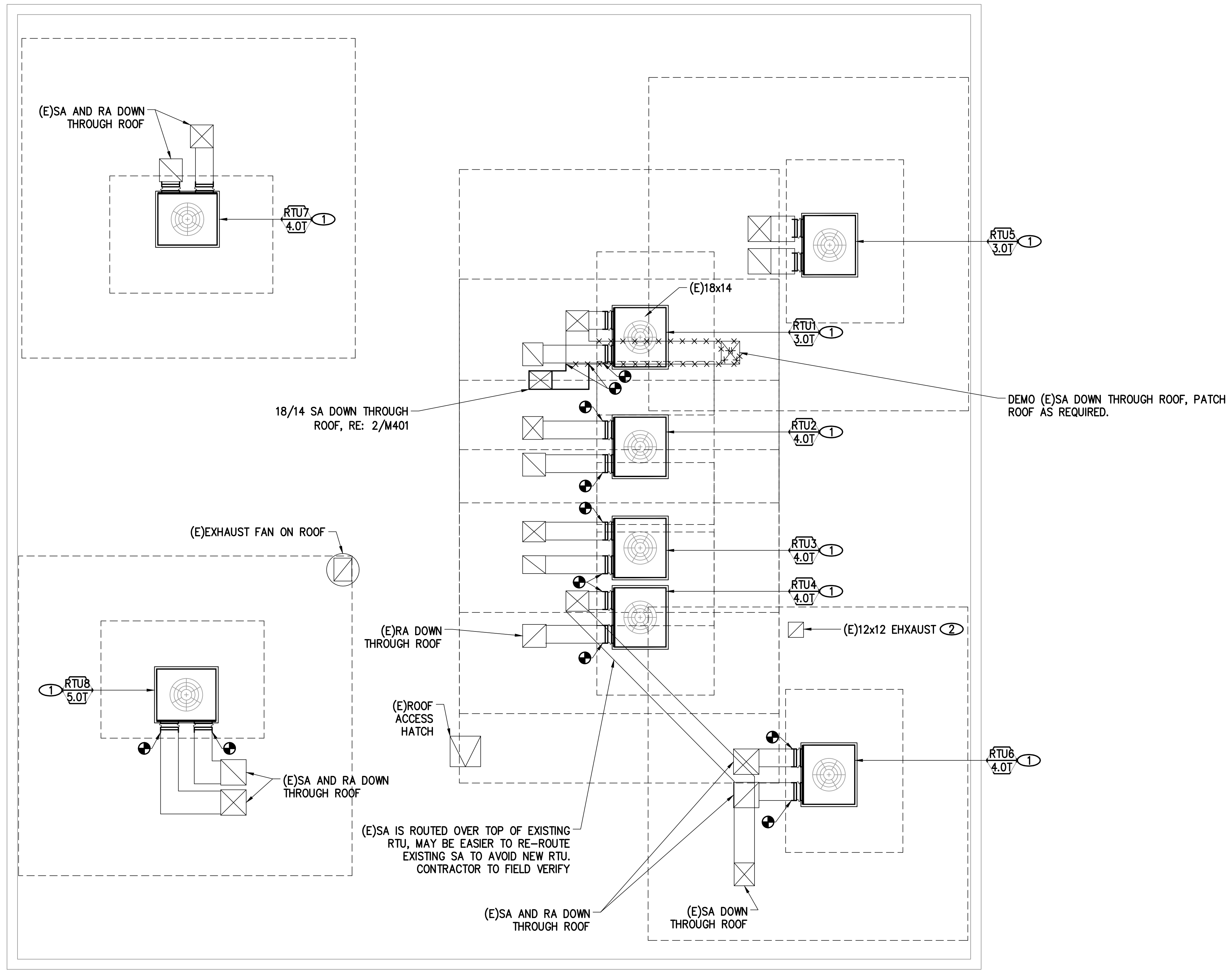
**REVISIONS**

NO	DESCRIPTION	DATE

CONSULTANT: **MEL**  
 MODEN ENGINEERING CONSULTANTS INC.  
 6600 COSS STREET - UNIT F  
 DENVER, CO 80211  
 P: (303) 907-4285

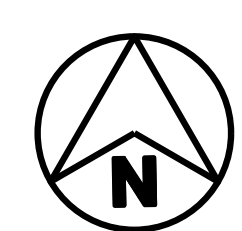
CONSULTANT SEAL:  


CONSULTANT PROJECT NO.: 2024-097-01



**ANGEL AESTHETICS**

7090 E HAMPDEN AVE  
 DENVER, CO 80224



**ROOF MECHANICAL PLAN**

1/4" = 1'-0"

1  
 M202


**ROOF MECHANICAL PLAN**


ISSUE DATE: 01/13/2025	ISSUED FOR: PERMIT & CONSTRUCTION
DESIGNED: TMB	PROJECT NO: 2024.55
QAQC: BEM	SHEET NO: M202
SCALE: As indicated	

AIR HANDLER SCHEDULE (NATURAL GAS HEATING - DX COOLING)																						
ITEM	LOCATION/SERVICE	MANUFACTURER/MODEL	HEATING CAPACITY				COOLING CAPACITY						SUPPLY FAN				MAIN UNIT			OVERALL DIMENSIONS	MAX. OPER. WT. (LBS.)	NOTES
			INPUT (MBH @ SL)	OUTPUT (MBH @ SL)	MINIMUM EAT	MINIMUM LAT	TOTAL CAPACITY (MBH)	EAT (DB/WB)	LAT (DB/WB)	CONDENSER AMBIENT TEMP (DEGREES F)	MIN. EFFICIENCY (EER2/IEER/SEER2)	CFM	SUPPLY ESP (IN. WC)	SIZE TYPE	MIN. MOTOR HP	MIN OA (CFM)	VOLTS/PH	MINIMUM CIRCUIT AMPACITY	MAXIMUM OVERCURRENT PROTECTION			
RTU1 3.0T	ROOF/LEVEL 1	CARRIER/48VL-E36	90	73	55.0	100	33.8	80/60	-/-	95	11.05/-/13.4	1,200	.50	-	-	120	208/3	20.1	30	48.2" LONG X 44.1" WIDE X 44.75" TALL	550	①②③④⑤⑥⑧⑨⑩⑪
RTU2 4.0T	ROOF/LEVEL 1	CARRIER/48VL-E48	130	105	55.0	100	47.0	80/60	-/-	95	11.05/-/13.4	1,600	.50	-	-	105	208/3	25.8	35	48.2" LONG X 44.1" WIDE X 54.75" TALL	550	①②③④⑤⑥⑧⑨⑩⑪
RTU3 4.0T	ROOF/LEVEL 1	CARRIER/48VL-E48	130	105	55.0	100	47.0	80/60	-/-	95	11.05/-/13.4	1,600	.50	-	-	75	208/3	25.8	35	48.2" LONG X 44.1" WIDE X 54.75" TALL	550	①②③④⑤⑥⑧⑨⑩⑪
RTU4 4.0T	ROOF/LEVEL 1	CARRIER/48VL-E48	130	105	55.0	100	47.0	80/60	-/-	95	11.05/-/13.4	1,600	.50	-	-	150	208/3	25.8	35	48.2" LONG X 44.1" WIDE X 54.75" TALL	550	①②③④⑤⑥⑧⑨⑩⑪
RTU5 3.0T	ROOF/LEVEL 2	CARRIER/48VL-E36	90	73	55.0	100	33.8	80/60	-/-	95	11.05/-/13.4	1,200	.50	-	-	100	208/3	20.1	30	48.2" LONG X 44.1" WIDE X 44.75" TALL	550	①②③④⑤⑥⑧⑨⑩⑪
RTU6 4.0T	ROOF/LEVEL 2	CARRIER/48VL-E48	130	105	55.0	100	47.0	80/60	-/-	95	11.05/-/13.4	1,600	.50	-	-	80	208/3	25.8	35	48.2" LONG X 44.1" WIDE X 54.75" TALL	550	①②③④⑤⑥⑧⑨⑩⑪
RTU7 4.0T	ROOF/LEVEL 2	CARRIER/48VL-E48	130	105	55.0	100	47.0	80/60	-/-	95	11.05/-/13.4	1,600	.50	-	-	200	208/3	25.8	35	48.2" LONG X 44.1" WIDE X 54.75" TALL	550	①②③④⑤⑥⑧⑨⑩⑪
RTU8 5.0T	ROOF/LEVEL 2	CARRIER/48VL-E60	130	105	55.0	100	56.0	80/60	-/-	95	11.05/-/13.4	1,200	.50	-	-	95	208/3	28.6	40	48.2" LONG X 44.1" WIDE X 54.75" TALL	550	①②③④⑤⑥⑧⑨⑩⑪

- NOTES:**
- ① FURNISH WITH 1" INTERNAL MERV 8 DISPOSABLE FILTER RACK, CONDENSER COIL HAIL GAURDS, 14" TALL FACTORY ROOF CURB, PACKAGED REFRIGERATION SYSTEM UTILIZING R410A.
  - ② CAPACITIES SHOWN ARE AT PROJECT SITE ALTITUDE, UNIT TO BE DERATED AND CONFIGURED FOR SERVICE AT PROJECT SITE ELEVATION = 5,300 FT.
  - ③ PROVIDE WITH VERTICAL SUPPLY AND RETURN CONNECTIONS AS INDICATED ON FLOORPLANS.
  - ④ PROVIDE GAS ALUMINIZED STEEL HEAT EXCHANGER RATED FOR 40 DEG MINIMUM MAT.
  - ⑤ PROVIDE CONDENSATE OVERFLOW SWITCH INTERLOCKED TO UNIT TO PROVIDE SHUT-DOWN OF UNIT UPON CONDENSATE OVERFLOW.
  - ⑥ PROVIDE 24/7 PROGRAMMABLE THERMOSTAT WITH 5 DEG F DEADBAND BETWEEN HEATING AND COOLING AND 10 HOUR BATTERY BACKUP.
  - ⑦ PROVIDE DEMAND CONTROL VENTILATION CONTROL WITH REMOTE CO2 SENSOR MOUNTED IN RETURN AIR DUCT SET AT 1000 PPM, MODULATE AIRFLOW PROPORTIONALLY HIGHER WHEN LEVELS EXCEED 1000 PPM AND LOWER WHEN LEVELS ARE BELOW 900 PPM.
  - ⑧ FURNISH 0-100% ECONOMIZER. FURNISH ECONOMIZER WITH AMCA 5000 LABELED CLASS I MOTORIZED DAMPERS WITH AN AIR LEAKAGE RATE NOT GREATER THAN 4 CFM/FT2 OF DAMPER SURFACE AREA AT 1.0 INCH WATER GAUGE FOR SUCH PURPOSE. UNIT TO HAVE FIXED DRY-BULB CONTROL WITH HIGH LIMIT SHUT-OFF SET SET 75 DEG OUTSIDE AIR TEMP. PROVIDE FAULT AND DETECTION DIAGNOSTICS SOFTWARE PROVIDING DETECTION OF AIR TEMP SENSOR FAULT AND ECONOMIZER OPERATION. FDD TO MONITOR THE FOLLOWING SENSORS; 1. OUTSIDE AIR TEMP, 2. SUPPLY AIR TEMP, 3. RETURN AIR TEMP. FDD TO PROVIDE SYSTEM STATUS INCLUDING THE FOLLOWING; 1. FREE COOLING AVAILABLE, 2. ECONOMIZER ENABLED, 3. COMPRESSOR ENABLED, 4. HEATING ENABLED, 5. MIXED AIR LOW LIMIT, 6. THE CURRENT VALUE OF EACH SENSOR. UNIT CONTROLS SHALL BE CAPABLE OF MANUALLY INITIATING OPERATING MODE OF COMPRESSORS, ECONOMIZERS, FANS, AND HEATING SYSTEM SO EACH SYSTEM CAN BE INDEPENDENTLY TESTED AND VERIFIED. UNIT SHALL BE CAPABLE OF REPORTING FAULTS TO A FAULT MANAGEMENT APPLICATION ACCESSIBLE BY OPERATING PERSONNEL OR ANNOUNCED AT THERMOSTAT. FDD SHALL BE CAPABLE OF DETECTING THE FOLLOWING FAULTS; 1. AIR TEMPERATURE SENSOR FAILURE/FAULT, 2. NOT ECONOMIZING WHEN UNIT SHOULD BE ECONOMIZING, 3. ECONOMIZING WHEN THE UNIT SHOULD NOT BE ECONOMIZING; 4. DAMPER NOT MODULATING; 5. EXCESS OUTDOOR AIR.
  - ⑨ RETURN AIR MOUNTED SMOKE DETECTOR WITH REMOTE TEST/RESET/ALARM HORN AND ALARM.
  - ⑩ FURNISH WITH POWERED EXHAUST WITH SINGLE POINT POWER CONNECTION
  - ⑪ PROVIDE WITH HORIZONTAL SUPPLY AND RETURN CONNECTIONS AS INDICATED ON FLOORPLANS.

REVISIONS		
NO	DESCRIPTION	DATE

CONSULTANT:  MODERN ENGINEERING CONSULTANTS INC  
 1600 POTOSI STREET - UNIT F  
 DENVER, CO 80211  
 P: (303) 967-4265

CONSULTANT SEAL: 

CONSULTANT PROJECT NO.: 2024-097-01

CABINET UNIT HEATER (ELECTRIC)									
ITEM	MANUFACTURER/MODEL	LOCATION/SERVICE	HEATING CAP. (KW)	MAX. CFM	VOLTS/PHASE	MCA	MAX. OPER. WT. (LBS.)	OVERALL DIMENSIONS	NOTES
CUH 3.0KWR	INDEECO/933I	WALL/HEAT	3.0	160	208/1	14.4	50	4-1/2" DEEP X 15-3/4" WIDE X 19-5/16" TALL	①②③④

**NOTES:**

- ① FURNISH FACTORY INSTALLED DISCONNECT, FRONT INTAKE, FRONT DISCHARGE, AND INTEGRAL TAMPER-PROOF THERMOSTAT SET AT 60 DEG F IN STAIRWELLS
- ② FURNISH WITH ARCHITECTURAL WALL LOUVER - BRONZE COLOR
- ③ FURNISH WITH SURFACE MOUNT BOX.
- ④ FURNISH WITH SEMI-RECESSED BOX.
- ⑤ FURNISHED WITH EXTRUDED ALUMINUM GRILLE, FACTORY INSTALLED DISCONNECT, FRONT INTAKE, FRONT DISCHARGE, AND TAMPERPROOF INTEGRAL THERMOSTAT CONTROL.
- ⑥ FURNISH FACTORY INSTALLED DISCONNECT AND INTEGRAL TAMPER-PROOF THERMOSTAT SET AT 60 DEG F. PROVIDE NORMALLY CLOSED THERMOSTAT WITH IN NEMA 1 BOX WITH REMOTE AMBIENT TEMP SENSOR TO DISABLE HEATER AT OUTDOOR AMBIENT TEMPERATURES ABOVE 45 DEG F (TEMPCO #TST-101-109 OR EQUAL).
- ⑦ CEILING COVE HEATER FURNISH FACTORY INSTALLED DISCONNECT AND INTEGRAL TAMPER-PROOF THERMOSTAT SET AT 60 DEG F IN STAIRWELLS AND BACK OF HOUSE AREAS AND 70 DEG F IN PUBLIC AREAS.
- ⑧ CEILING COVE HEATER WITH REMOTE DOUBLE POLE PROGRAMMABLE THERMOSTAT SET AT 70 DEG F, HEATER MOUNTED AT 3" BELOW CEILING (HONEYWELL #TL8230A1003 OR EQUAL).
- ⑨ FURNISH FACTORY INSTALLED DISCONNECT, FRONT INTAKE, FRONT DISCHARGE, AND REMOTE PROGRAMMABLE THERMOSTAT SET AT 70 DEG F. INSTALL HEATER SO THAT TOP OF HEATER IS 10" BELOW CEILING.

DIFFUSER & REGISTER SCHEDULE							
SUPPLY AIR				RETURN/EXHAUST AIR			
ITEM	NECK SIZE	CFM RANGE	TYPE	ITEM	MODULE-NECK SIZE	CFM RANGE	TYPE
①	6/6 - 6"ø	0 - 230	S1	①	24/24 - 22/22	0 - 1,000	R1
②	12/12 - 8"ø	0 - 410		②	6/6	0 - 150	R2
③	12/12 - 10"ø	0 - 600					
④	12/12 - 12"ø	0 - 860					
⑤	18/18 - 14"ø	0 - 1,150					

**DIFFUSER & REGISTER SPECIFICATIONS**

**SUPPLY AIR**

**TYPE S1:** KRUEGER MODEL SHR 24"/24" STEEL LOUVERED PANEL DIFFUSER, NON-ADJUSTABLE 4-WAY HORIZONTAL THROW, WHITE FINISH. FRAME 23 FOR LAY-IN CEILINGS. FRAME 21 FOR GYP. BOARD CEILINGS.

**RETURN/EXHAUST AIR**

**TYPE R1:** KRUEGER MODEL 6490 STEEL PERFORATED FACE RETURN WITH SQUARE NECK FOR DUCTED APPLICATIONS, FRAME 23 FOR LAY-IN CEILINGS, FRAME 20 FOR GYP. BOARD CEILINGS, WHITE FINISH. PROVIDE DUCT BOARD SOUND BOOT (HERCULES INDUSTRIES #SB OR EQUAL).

**TYPE R2:** KRUEGER MODEL SB5H, STEEL GRILLE, 1/2" BLADE SPACING, 35° BLADE ANGLE, WHITE FINISH. FRAME 23 FOR LAY IN CEILINGS. CONCEALED MOUNTING FOR GYP. BOARD CEILINGS. PROVIDE OBD IN GRILLE WHERE INDICATED ON DRAWINGS.

**ANGEL AESTHETICS**  
 7090 E HAMPDEN AVE  
 DENVER, CO 80224

SHEET NAME: <b>MECHANICAL SCHEDULES</b>	
ISSUE DATE: 01/13/2025	ISSUED FOR: <b>PERMIT &amp; CONSTRUCTION</b>
DESIGNED: <b>TMB</b>	PROJECT NO.: <b>2024.55</b>
QA/QC: <b>BEM</b>	SHEET NO.:
SCALE: As indicated	<b>M301</b>

OUTSIDE AIR VENTILATION CALCULATIONS										
PROJECT: ANGEL AESTHETICS	CODE: 2015 IMC					SYSTEM: RTU-1 (LVL 1 NE)				
	AREA (SQFT)	#/1000 SQFT	# PEOPLE	OSA PER (CFM)	CFM/SQFT	AREA (SQFT)	TOTAL REQD OSA (CFM)	ET	SUPPLY AIR (CFM)	% OSA
FUTURE TENANT 107	1,077	5	6	5.0	0.06	0.80	118	1.200	10%	
<b>TOTALS</b>	1,077		6				118	1,200		

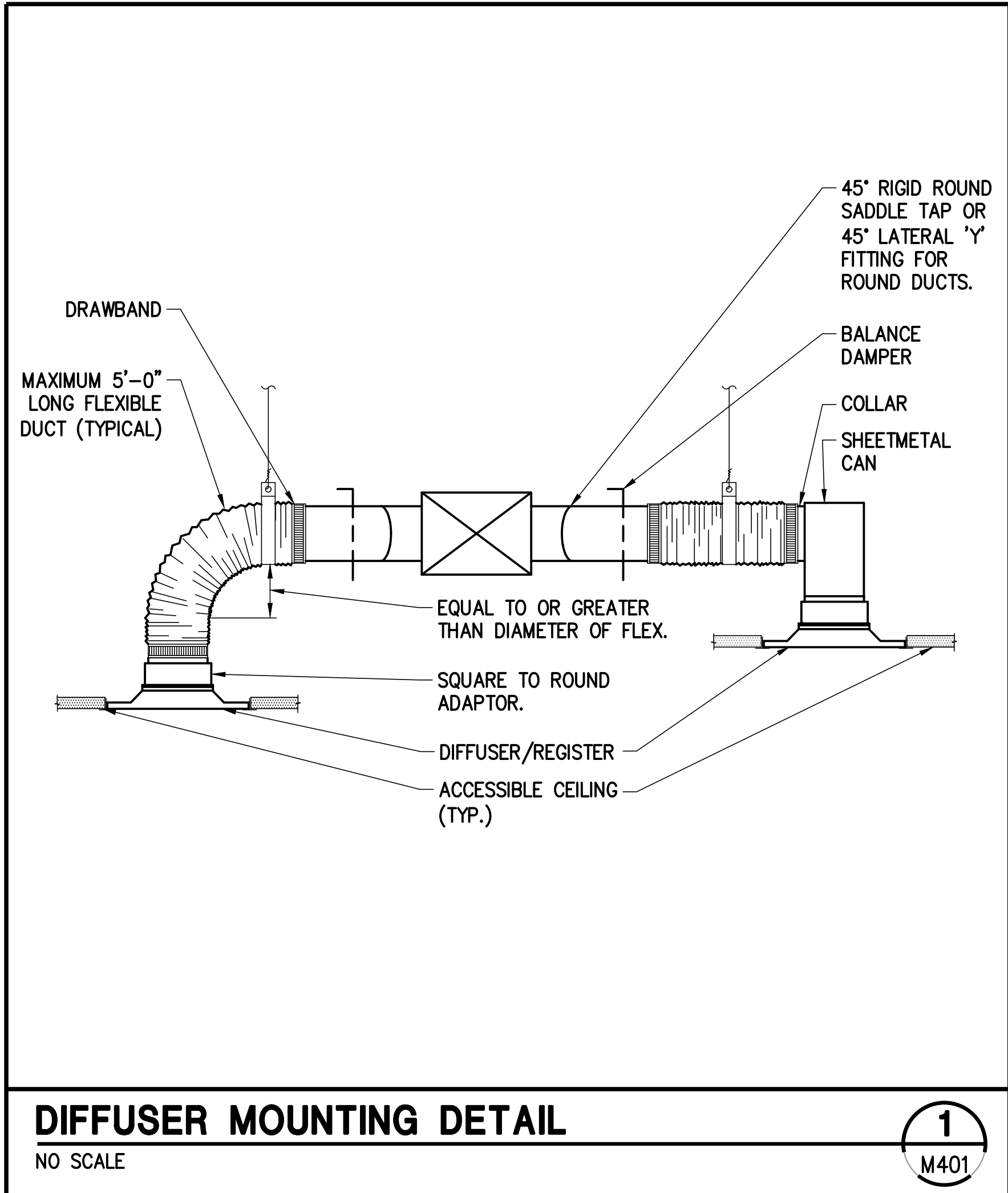
  

SYSTEM CALCULATIONS			
SUPPLY AIR	1,200 CFM	VENTILATION SYSTEM EFFICIENCY	100%
TOTAL UNCORRECTED OSA REQD	118 CFM	SYSTEM OCCUPANT DIVERSITY	100%
AVERAGE OUTDOOR AIR %	10%	CORRECTED SYSTEM MIN OUTDOOR AIR	118 CFM

OUTSIDE AIR VENTILATION CALCULATIONS										
PROJECT: ANGEL AESTHETICS	CODE: 2015 IMC					SYSTEM: RTU-5 (LVL 2 NE)				
	AREA (SQFT)	#/1000 SQFT	# PEOPLE	OSA PER (CFM)	CFM/SQFT	AREA (SQFT)	TOTAL REQD OSA (CFM)	ET	SUPPLY AIR (CFM)	% OSA
NUMMING AREA 216	135	5	1	5.0	0.06	0.80	16	190	9%	
TREATMENT 215	170	5	1	5.0	0.06	0.80	19	260	7%	
TREATMENT 214	140	5	1	5.0	0.06	0.80	17	200	8%	
TREATMENT 213	140	5	1	5.0	0.06	0.80	17	200	8%	
TREATMENT 212	140	5	1	5.0	0.06	0.80	17	200	8%	
CORRIDOR LVL 2 NE	174	0	0	0.0	0.06	0.80	13	150	9%	
<b>TOTALS</b>	899		5				99	1,200		

SYSTEM CALCULATIONS			
SUPPLY AIR	1,200 CFM	VENTILATION SYSTEM EFFICIENCY	100%
TOTAL UNCORRECTED OSA REQD	99 CFM	SYSTEM OCCUPANT DIVERSITY	100%
AVERAGE OUTDOOR AIR %	8%	CORRECTED SYSTEM MIN OUTDOOR AIR	99 CFM



OUTSIDE AIR VENTILATION CALCULATIONS										
PROJECT: ANGEL AESTHETICS	CODE: 2015 IMC					SYSTEM: RTU-2 (LVL 1 NW)				
	AREA (SQFT)	#/1000 SQFT	# PEOPLE	OSA PER (CFM)	CFM/SQFT	AREA (SQFT)	TOTAL REQD OSA (CFM)	ET	SUPPLY AIR (CFM)	% OSA
FUTURE TENANT 101	973	5	5	5.0	0.06	0.80	104	1,600	7%	
<b>TOTALS</b>	973		5				104	1,600		

SYSTEM CALCULATIONS			
SUPPLY AIR	1,600 CFM	VENTILATION SYSTEM EFFICIENCY	100%
TOTAL UNCORRECTED OSA REQD	104 CFM	SYSTEM OCCUPANT DIVERSITY	100%
AVERAGE OUTDOOR AIR %	7%	CORRECTED SYSTEM MIN OUTDOOR AIR	104 CFM

OUTSIDE AIR VENTILATION CALCULATIONS										
PROJECT: ANGEL AESTHETICS	CODE: 2015 IMC					SYSTEM: RTU-6 (LVL 2 SE)				
	AREA (SQFT)	#/1000 SQFT	# PEOPLE	OSA PER (CFM)	CFM/SQFT	AREA (SQFT)	TOTAL REQD OSA (CFM)	ET	SUPPLY AIR (CFM)	% OSA
CORRIDOR LVL 2 SE	152	0	0	0.0	0.06	0.80	11	320	4%	
TREATMENT 209	154	5	1	5.0	0.06	0.80	18	420	4%	
TREATMENT 210	160	5	1	5.0	0.06	0.80	18	420	4%	
TREATMENT 211	106	5	1	5.0	0.06	0.80	14	320	4%	
STORAGE 220	70	5	1	5.0	0.06	0.80	12	120	10%	
<b>TOTALS</b>	642		4				73	1,600		

SYSTEM CALCULATIONS			
SUPPLY AIR	1,600 CFM	VENTILATION SYSTEM EFFICIENCY	95%
TOTAL UNCORRECTED OSA REQD	73 CFM	SYSTEM OCCUPANT DIVERSITY	100%
AVERAGE OUTDOOR AIR %	5%	CORRECTED SYSTEM MIN OUTDOOR AIR	77 CFM

OUTSIDE AIR VENTILATION CALCULATIONS										
PROJECT: ANGEL AESTHETICS	CODE: 2015 IMC					SYSTEM: RTU-3 (LVL 1 SW)				
	AREA (SQFT)	#/1000 SQFT	# PEOPLE	OSA PER (CFM)	CFM/SQFT	AREA (SQFT)	TOTAL REQD OSA (CFM)	ET	SUPPLY AIR (CFM)	% OSA
OFFICE 105	165	5	1	5.0	0.06	0.80	19	400	5%	
PODCAST ROOM 104	292	5	2	5.0	0.06	0.80	34	650	5%	
CORRIDOR LVL 1	278	0	0	0.0	0.06	0.80	21	550	4%	
<b>TOTALS</b>	735		3				74	1,600		

SYSTEM CALCULATIONS			
SUPPLY AIR	1,600 CFM	VENTILATION SYSTEM EFFICIENCY	99%
TOTAL UNCORRECTED OSA REQD	74 CFM	SYSTEM OCCUPANT DIVERSITY	100%
AVERAGE OUTDOOR AIR %	5%	CORRECTED SYSTEM MIN OUTDOOR AIR	74 CFM

OUTSIDE AIR VENTILATION CALCULATIONS										
PROJECT: ANGEL AESTHETICS	CODE: 2015 IMC					SYSTEM: RTU-7 (LVL 2 NW)				
	AREA (SQFT)	#/1000 SQFT	# PEOPLE	OSA PER (CFM)	CFM/SQFT	AREA (SQFT)	TOTAL REQD OSA (CFM)	ET	SUPPLY AIR (CFM)	% OSA
CORRIDOR LVL 2 NW	127	0	0	0.0	0.06	0.80	10	150	6%	
OFFICE 203	68	5	1	5.0	0.06	0.80	11	100	11%	
RECEPTION 201	615	30	19	5.0	0.06	0.80	165	1,200	14%	
VESTIBULE 200	118	0	0	0.0	0.06	0.80	9	150	6%	
<b>TOTALS</b>	928		20				195	1,600		

SYSTEM CALCULATIONS			
SUPPLY AIR	1,600 CFM	VENTILATION SYSTEM EFFICIENCY	98%
TOTAL UNCORRECTED OSA REQD	195 CFM	SYSTEM OCCUPANT DIVERSITY	100%
AVERAGE OUTDOOR AIR %	12%	CORRECTED SYSTEM MIN OUTDOOR AIR	198 CFM

OUTSIDE AIR VENTILATION CALCULATIONS										
PROJECT: ANGEL AESTHETICS	CODE: 2015 IMC					SYSTEM: RTU-4 (LVL 1 SE)				
	AREA (SQFT)	#/1000 SQFT	# PEOPLE	OSA PER (CFM)	CFM/SQFT	AREA (SQFT)	TOTAL REQD OSA (CFM)	ET	SUPPLY AIR (CFM)	% OSA
OPEN AREA 106	635	25	16	5.0	0.06	0.80	148	1,600	9%	
<b>TOTALS</b>	635		16				148	1,600		

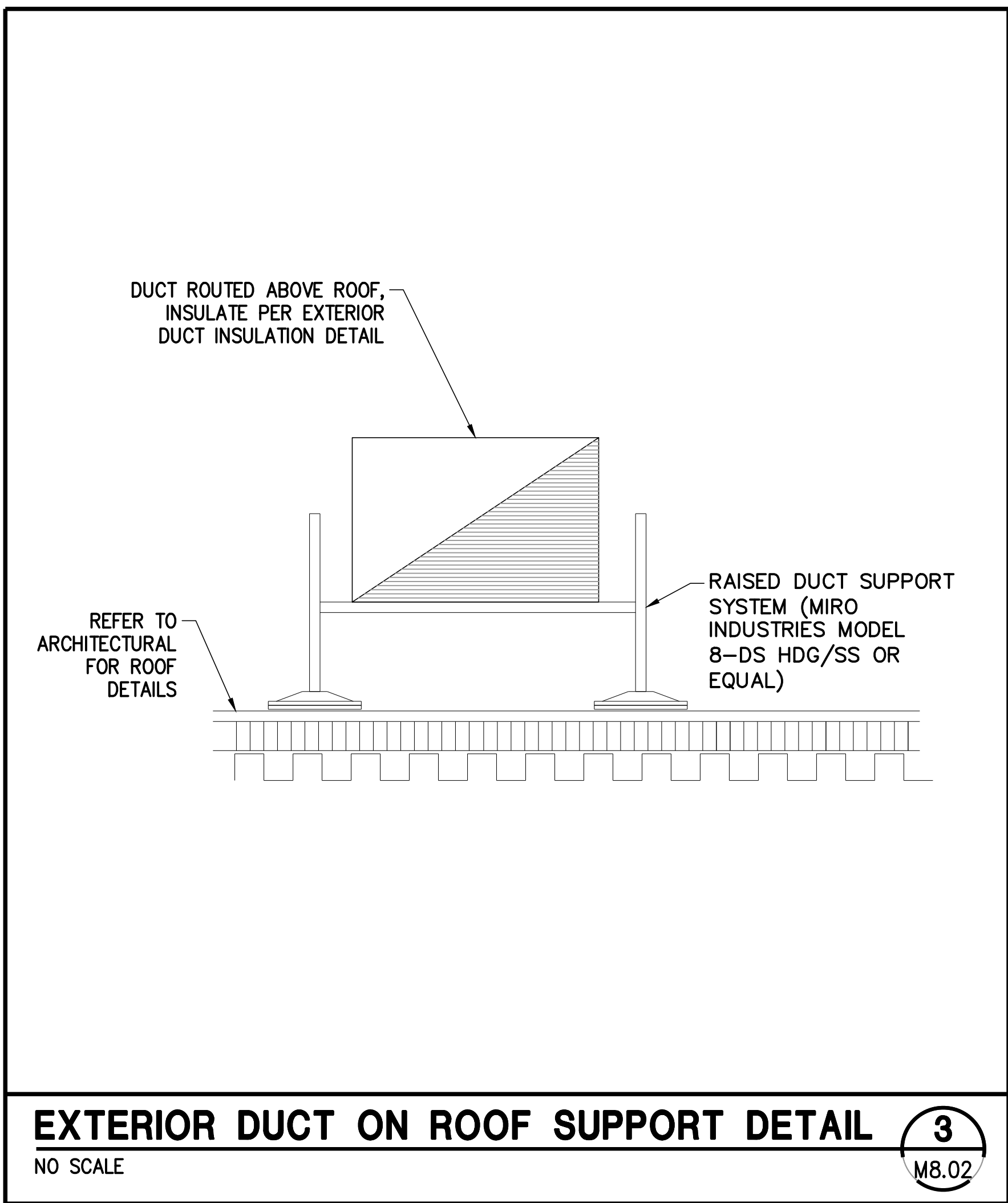
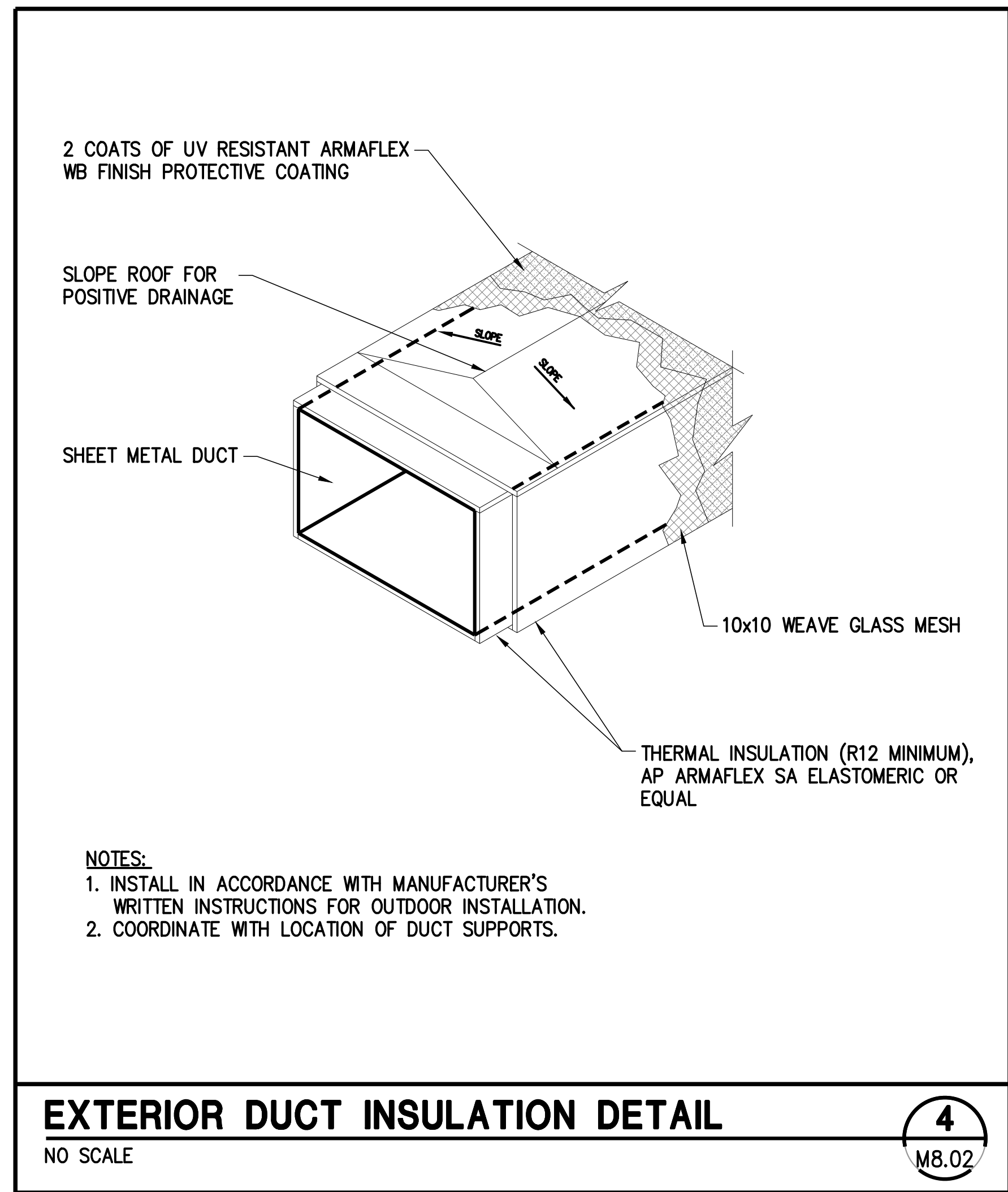
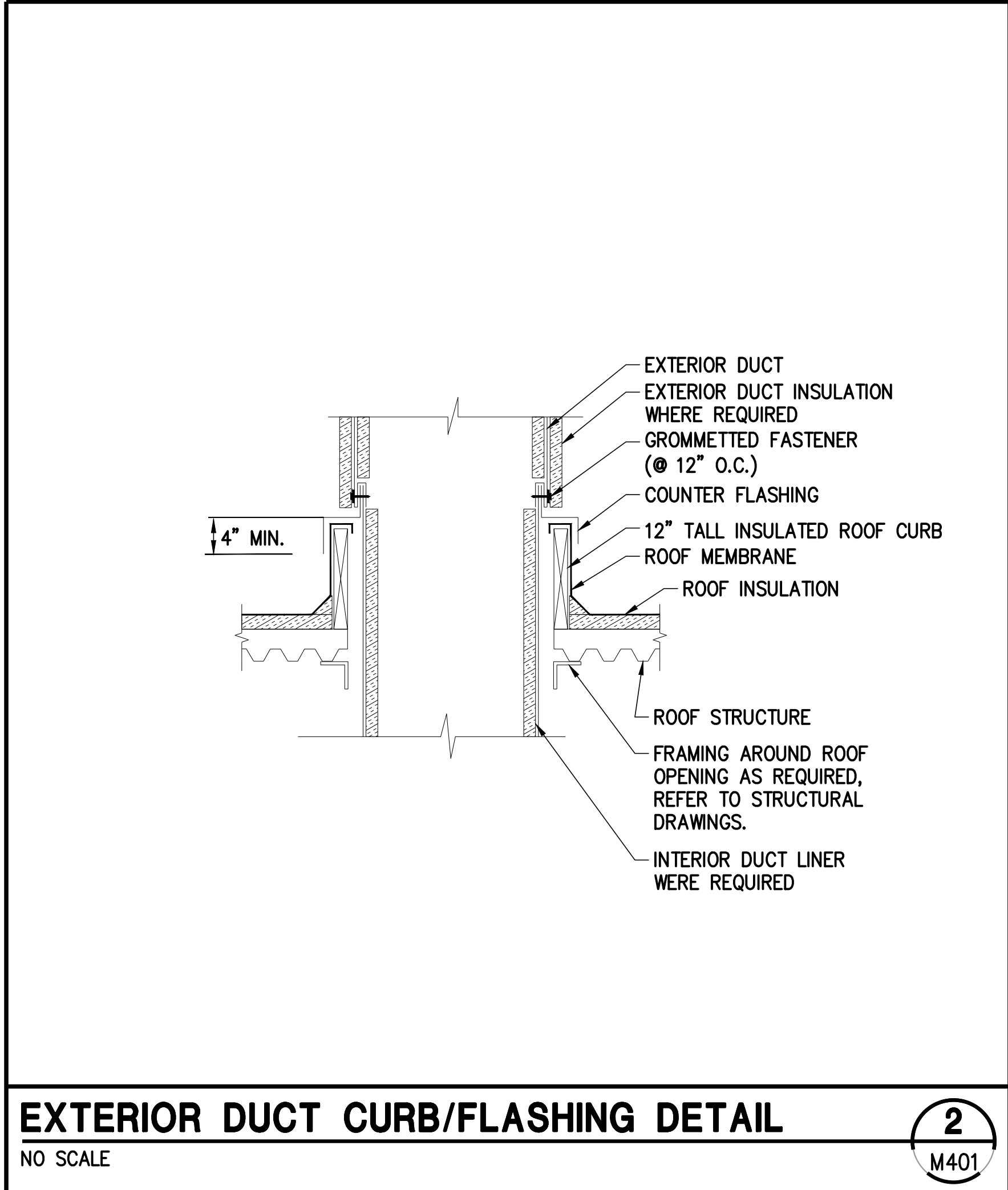
  

SYSTEM CALCULATIONS			
SUPPLY AIR	1,600 CFM	VENTILATION SYSTEM EFFICIENCY	100%
TOTAL UNCORRECTED OSA REQD	148 CFM	SYSTEM OCCUPANT DIVERSITY	100%
AVERAGE OUTDOOR AIR %	9%	CORRECTED SYSTEM MIN OUTDOOR AIR	148 CFM

OUTSIDE AIR VENTILATION CALCULATIONS										
PROJECT: ANGEL AESTHETICS	CODE: 2015 IMC					SYSTEM: RTU-8 (LVL 2 SW)				
	AREA (SQFT)	#/1000 SQFT	# PEOPLE	OSA PER (CFM)	CFM/SQFT	AREA (SQFT)	TOTAL REQD OSA (CFM)	ET	SUPPLY AIR (CFM)	% OSA
TREATMENT 208	154	5	1	5.0	0.06	0.80	18	400	4%	
TREATMENT 207	155	5	1	5.0	0.06	0.80	18	400	4%	
STORAGE 206	119	5	1	5.0	0.06	0.80	15	280	5%	
BODY ROOM 205	217	5	2	5.0	0.06	0.80	29	520	6%	
CORRIDOR LVL 2 SW	173	0	0	0.0	0.06	0.80	13	400	3%	
<b>TOTALS</b>	818		5				93	2,000		

SYSTEM CALCULATIONS			
SUPPLY AIR	2,000 CFM	VENTILATION SYSTEM EFFICIENCY	99%
TOTAL UNCORRECTED OSA REQD	93 CFM	SYSTEM OCCUPANT DIVERSITY	100%
AVERAGE OUTDOOR AIR %	5%	CORRECTED SYSTEM MIN OUTDOOR AIR	93 CFM



REVISIONS		
NO	DESCRIPTION	DATE

CONSULTANT: **MEC**  
MEC ENGINEERING CONSULTANTS INC  
1660 POTOSI STREET, UNIT F  
DENVER, CO 80211  
P: (303) 967-4000

CONSULTANT SEAL:

CONSULTANT PROJECT NO.: 2024-097-01

**ANGEL AESTHETICS**

7090 E HAMPDEN AVE  
DENVER, CO 80224

MECHANICAL DETAILS	
ISSUE DATE: <b>01/13/2025</b>	ISSUED FOR: <b>PERMIT &amp; CONSTRUCTION</b>
DESIGNED: <b>TMB</b>	PROJECT NO: <b>2024.55</b>
QA/QC: <b>BEM</b>	SHEET NO: <b>M401</b>
SCALE: <b>As indicated</b>	



**KEYNOTES**

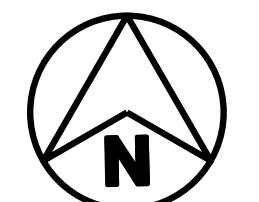
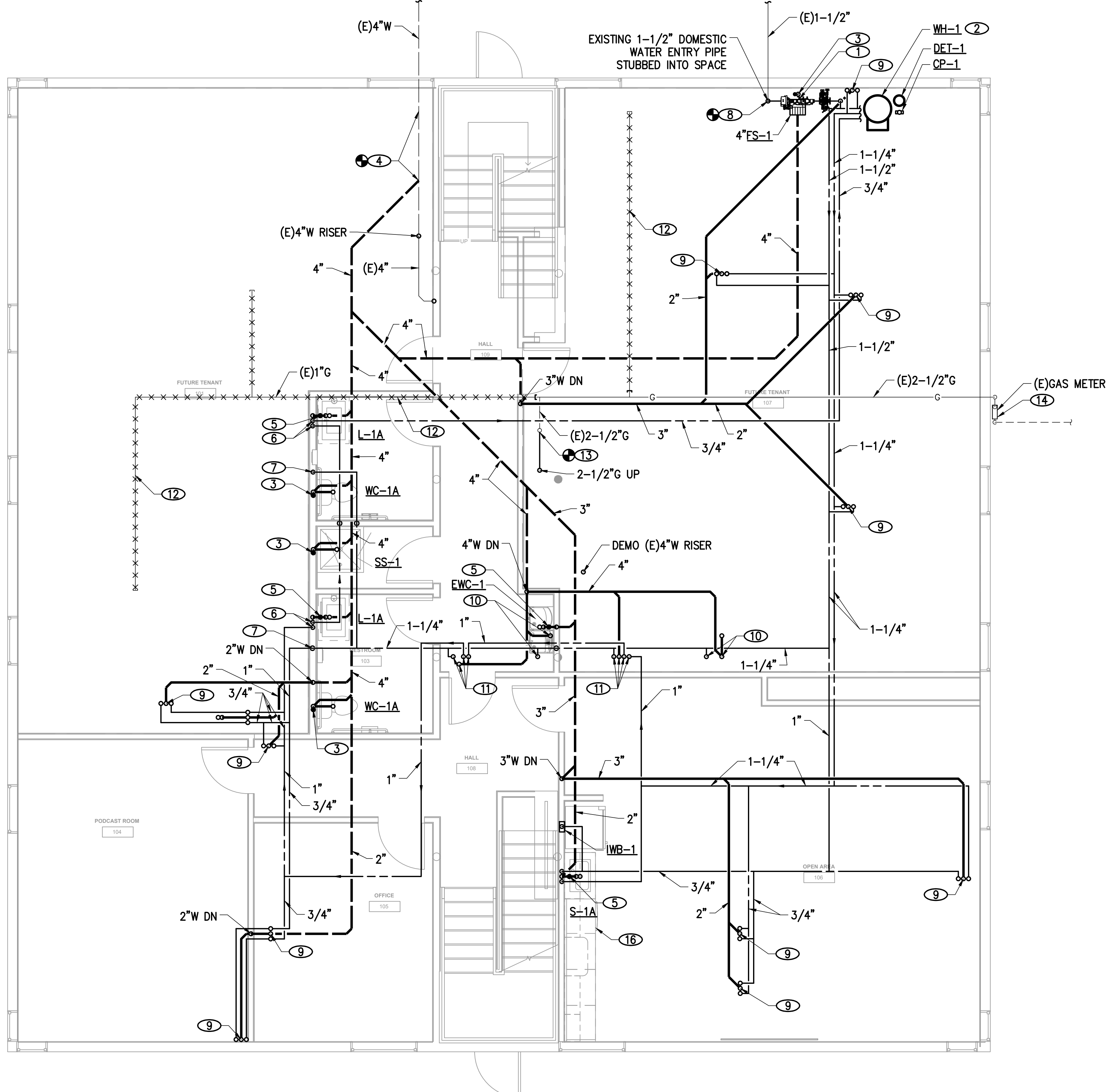
- ① 1-1/2" DOMESTIC WATER ENTRY WITH 1-1/2" REDUCED PRESSURE BACKFLOW PREVENTER BEP-1 WITH FLOOD PREVENTION VALVE AND PRESSURE REDUCING VALVE PRV-1 SET AT 75 PSI DISCHARGE PRESSURE INSTALLED AT 18" AFF. EXTEND FULL SIZE RELIEF DRAIN FROM BACKFLOW PREVENTOR TO FLOOR SINK AND DISCHARGE WITH 2" AIR GAP.
- ② 1-1/4"CW, 1-1/4"HW AND 3/4"HW TO WATER HEATER. RE: ELECTRIC WATER HEATER DETAIL 1/P301.
- ③ 2"V UP FROM BELOW FLOOR W/ WCO. EXTEND 2"V UP IN WALL TO HIGH IN CEILING SPACE AND PROVIDE AIR ADMITTANCE VALVE.
- ④ ASSUMED LOCATION OF SANITARY MAIN. CONFIRM EXACT LOCATION AND ADEQUATE DEPTH OF INVERT PRIOR TO STARTING ANY UNDERFLOOR SANITARY WORK. CONNECT NEW 4"W TO EXISTING 4"W MAIN.
- ⑤ PROVIDE AIR ADMITTANCE VALVE INSTALLED ON TRAP ARM BELOW SINK/LAVATORY.
- ⑥ 3/4"HW DOWN IN WALL TO LAVATORY. LOOP 3/4"HW BACK TO CEILING SPACE AS SHOWN. UNCIRCULATED HW BRANCH TO LAVATORY 6" MAXIMUM LENGTH.
- ⑦ 3/4"CW DOWN IN WALL TO FULL SIZE HEADER, EXTEND AND CONNECT TO FIXTURES AS REQUIRED.
- ⑧ CONNECT NEW 1-1/2" DOMESTIC WATER LINE TO EXISTING 1-1/2" DOMESTIC WATER STUB-IN.
- ⑨ 2"W, 1/2"CW, 1/2"HW UP TO SINK ABOVE.
- ⑩ 4"W, 1/2"CW UP TO WC ABOVE.
- ⑪ 2"W UP, 1"HW UP/DN, 1/2"CW UP TO LAV ABOVE.
- ⑫ DEMO EXISTING GAS PIPING BACK TO MAIN AS SHOWN.
- ⑬ REMOVE EXISTING 2-1/2"G RISER; EXTEND GAS AS SHOWN AND RISE UP IN NEW LOCATION.
- ⑭ EXISTING GAS METER BY XCEL.  
 NEW TOTAL CONNECTED LOAD = 960,000 BTU/H @ S.L.  
 EXISTING METER DISCHARGE PRESSURE = 6" W.C.  
 MIN RESIDUAL PRESSURE AT MOST REMOTE CONNECTION = 5.5" W.C.  
 (N)PIPING EFFECTIVE LENGTH TO MOST REMOTE CONNECTION = 175'  
 2"W, 1/2"CW, 1/2"HW UP TO SHOWER ABOVE.
- ⑮ 2"W, 1/2"CW, 1/2"HW UP TO SHOWER ABOVE.
- ⑯ CONNECT 1/2"HW AND FULL SIZE DRAIN TO DISHWASHER. EXTEND DRAIN BELOW COUNTER AND CONNECT TO DISPOSAL INLET OF ADJACENT SINK VIA HIGH LOOP BELOW COUNTER. RE: DETAIL 2/P3.01.

REVISIONS		
NO	DESCRIPTION	DATE

CONSULTANT: **MEL**  
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CONSULTANT SEAL:

CONSULTANT PROJECT NO.: 2024-097-01



**LEVEL 1 PLUMBING PLAN**  
 1/4" = 1'-0"

①  
 P200

**ANGEL AESTHETICS**

7090 E HAMPDEN AVE  
 DENVER, CO 80224

SHEET NAME: <b>LEVEL 1 PLUMBING PLAN</b>	
ISSUE DATE: 01/13/2025	ISSUED FOR: PERMIT & CONSTRUCTION
DESIGNED: TMB	PROJECT NO: 2024.55
QA/QC: BEM	SHEET NO: P200
SCALE: As indicated	



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**KEYNOTES**

- ① PROVIDE AIR ADMITTANCE VALVE INSTALLED ON TRAP ARM BELOW SINK/LAVATORY.
- ② 1"HW LOOP UP FROM BELOW TO LAVATORY AND LOOP 1"HW BACK DOWN. EXTEND 1/2"HW TO LAVATORY. UNCIRCULATED HW BRANCH TO LAVATORY 6" MAXIMUM LENGTH.
- ③ 2"V UP FROM BELOW FLOOR W/ WCO. EXTEND 2"V UP IN WALL TO HIGH IN CEILING SPACE AND PROVIDE AIR ADMITTANCE VALVE.
- ④ DEMO EXISTING GAS RISER FROM LEVEL BELOW UP TO CEILING SPACE IN PREPARATION FOR RECONNECTION IN CEILING SPACE.
- ⑤ CONNECT NEW 2-1/2"G(6"WC) TO EXISTING 2-1/2"G(6"WC) RISER IN CEILING. OFFSET OVER TO WALL AND DROP DOWN TO LEVEL BELOW.

**REVISIONS**

NO	DESCRIPTION	DATE

CONSULTANT:  CONSULTANT SEAL: 

MEL  
 MODERN ENGINEERING CONSULTANTS INC.  
 4660 COSS STREET - UNIT F  
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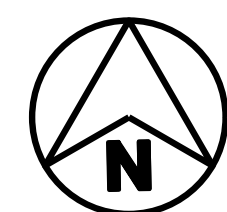
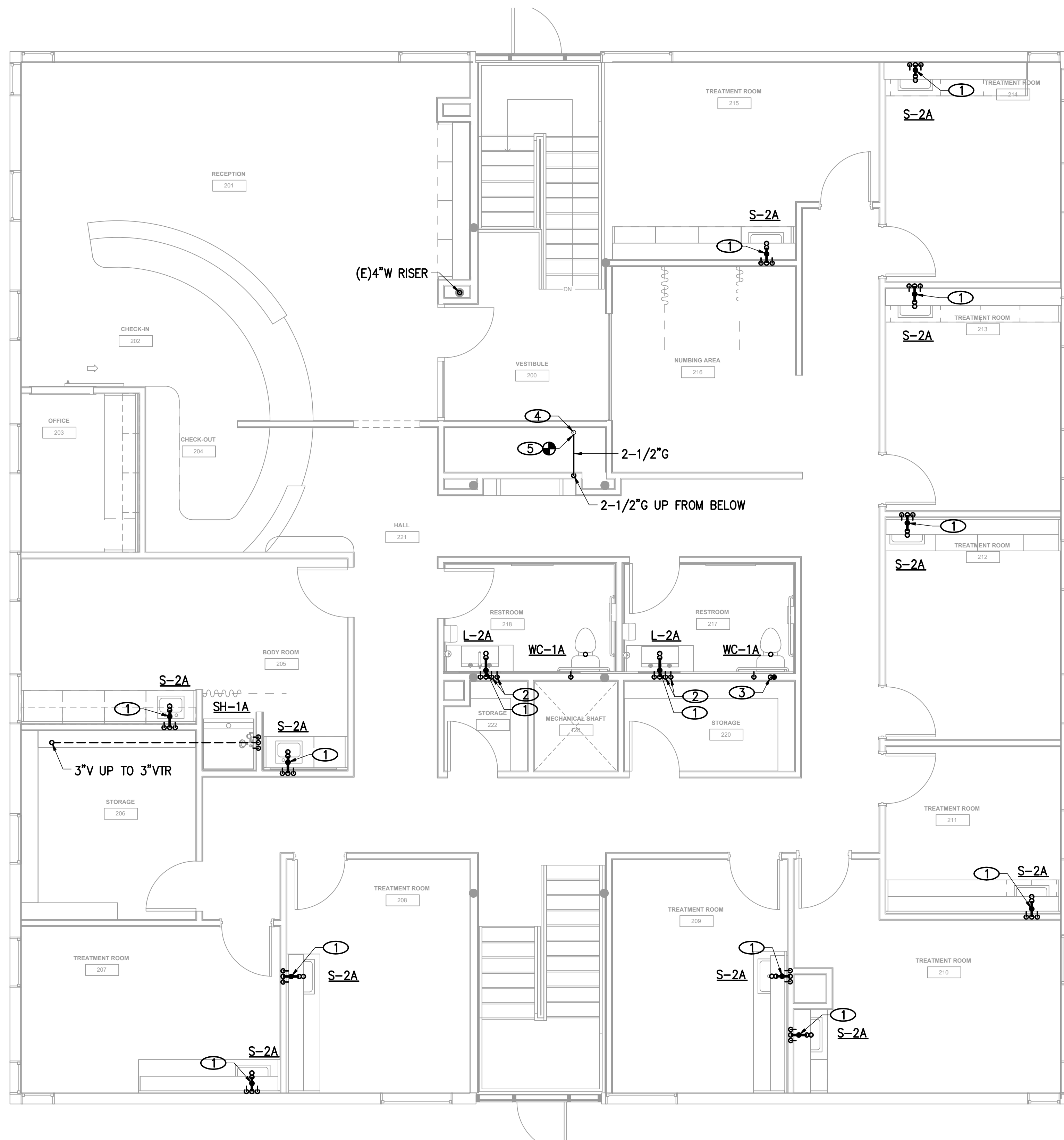
CONSULTANT PROJECT NO.: 2024-097-01

ANGEL AESTHETICS

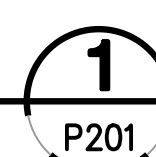
7090 E HAMPDEN AVE  
 DENVER, CO 80224

**LEVEL 2 PLUMBING PLAN**

ISSUE DATE: 01/13/2025	ISSUED FOR: PERMIT & CONSTRUCTION
DESIGNED: TMB	PROJECT NO: 2024.55
QA/QC: BEM	SHEET NO: P201
SCALE: As indicated	



**LEVEL 2 PLUMBING PLAN**  
 1/4" = 1'-0"



P201


**KEYNOTES**

- ① CONNECT NEW 2-1/2"G(6"W.C.) TO EXISTING 2-1/2"G(6"W.C.) AND ROUTE NEW GAS PIPING TO NEW RTU'S AS SHOWN. RE: MECH.
- ② 1"G(6"W.C.) CONNECTION TO ROOFTOP UNIT. RE: OUTDOOR GAS CONNECTION DETAIL 2/P202.

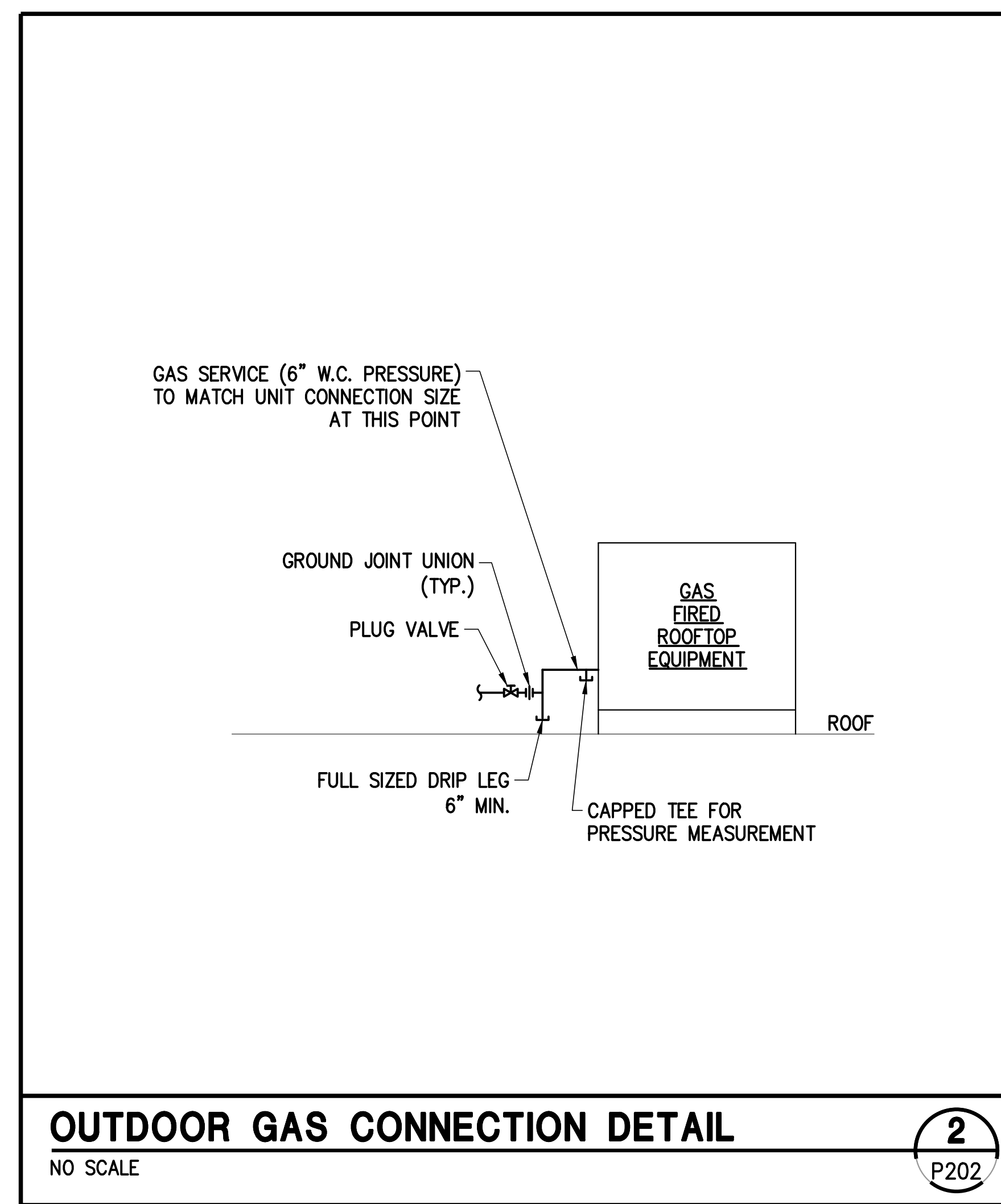
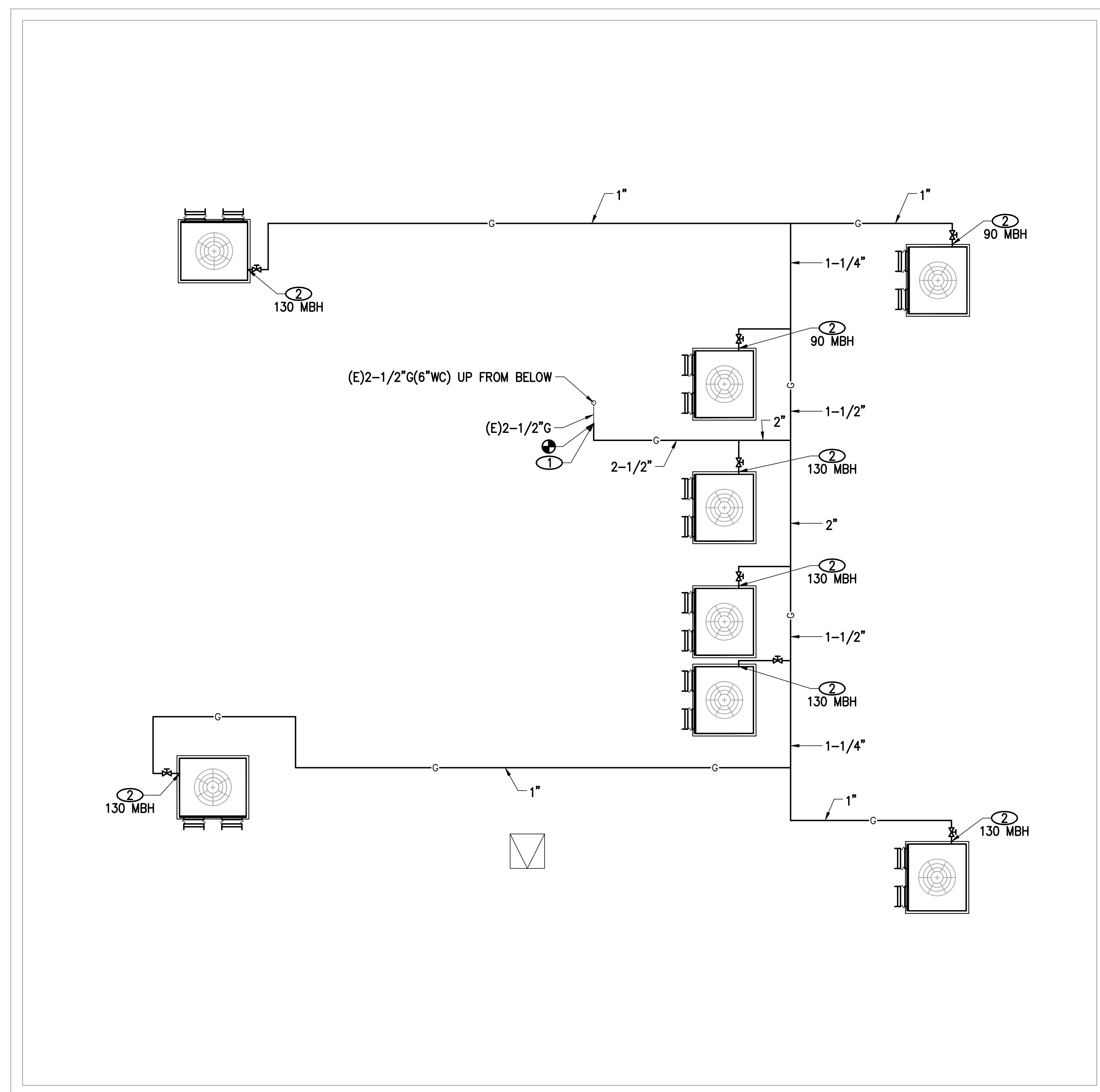
REVISIONS

NO	DESCRIPTION	DATE

CONSULTANT: **MEC**  
MOEN ENGINEERING CONSULTANTS INC.  
 1640 ROCKY STREET - UNIT F  
 DENVER, CO 80211  
 P: (303) 907-4282

CONSULTANT SEAL:  
  
1-12-23

CONSULTANT PROJECT NO.: 2024-097-01



**IFGC PIPE SIZING CALCULATOR FOR PRESSURES LESS THAN 1.5 PSI**

Meter Discharge Pressure ("W.C.)= 6  
 Allowable Pressure Drop ("W.C.)= 0.5  
 Total Equivalent Length of Pipe (feet)= 175

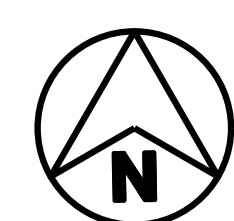
Nominal Sched. 40 Steel Pipe size (inches)	Capacity (cfh)
0.5	37
0.75	77
1	144
1.25	296
1.5	443
2	854
2.5	1361
3	2406
4	4907
5	8877
6	14374
8	29532

\*Pipe capacity is calculated using formula for low pressure gas (1.5 psi and less) located in IFGC Appendix A  
 $Q = 2313 \cdot D^2 \cdot 6.23 \cdot (\Delta H) / (Cr \cdot L)^{0.541}$

Q = Capacity (cfh)  
 D = Inside Pipe Diameter  
 ΔH = Allowable Pressure Drop ("W.C.)  
 Cr = Factor For Viscosity, Density, and Temp. = .6064  
 L = Length of Pipe (feet)

**ANGEL AESTHETICS**

7090 E HAMPDEN AVE  
 DENVER, CO 80224



**ROOF PLUMBING PLAN**

1/4" = 1'-0"

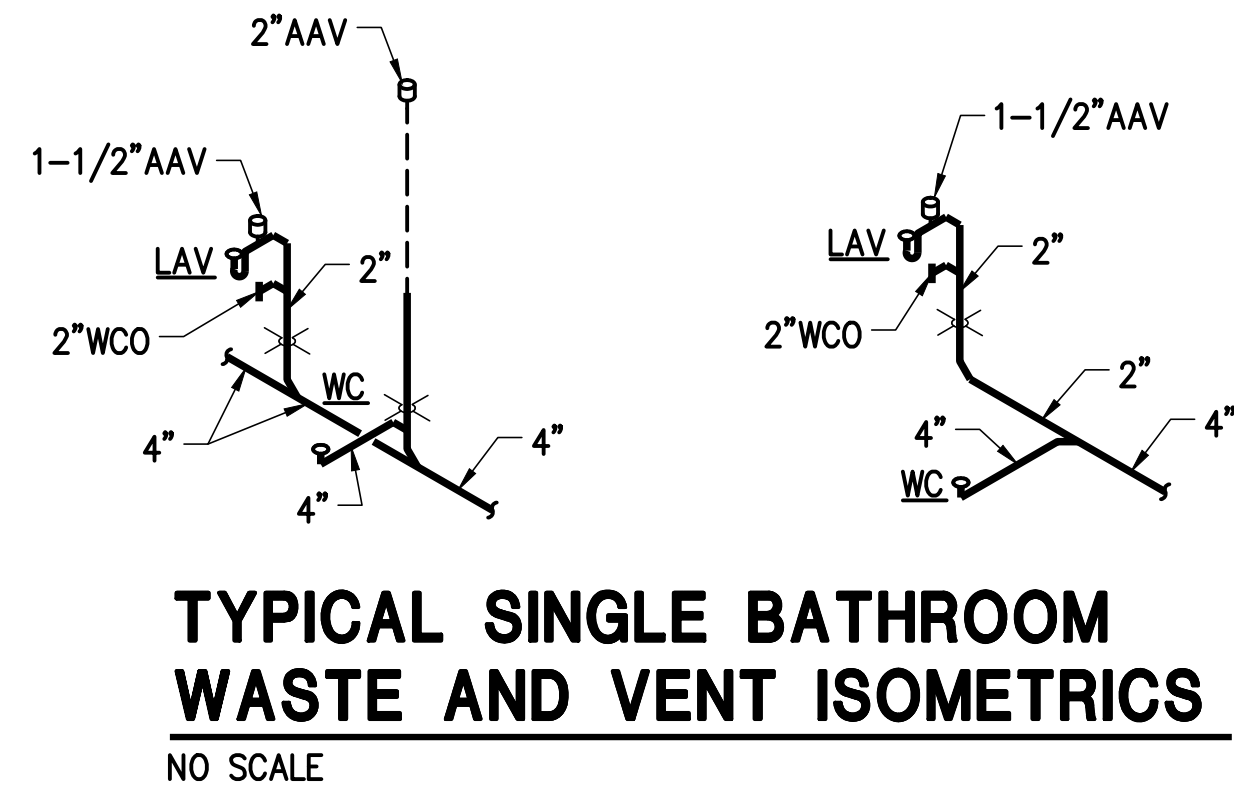
**1**  
P202

SHEET NAME:  
**ROOF PLUMBING PLAN**

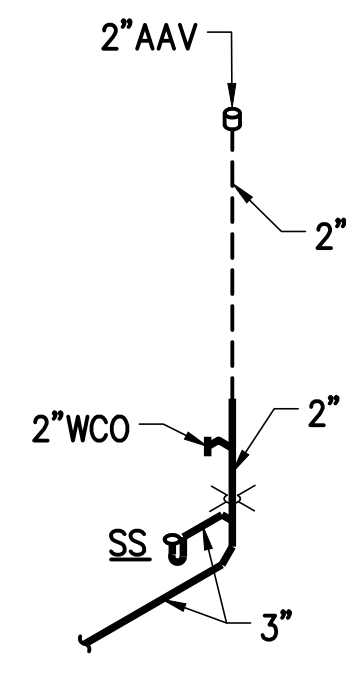
ISSUE DATE: 01/13/2025	ISSUED FOR: PERMIT & CONSTRUCTION
DESIGNED: TMB	PROJECT NO: 2024.55
QA/QC: BEM	SHEET NO: P202
SCALE: As indicated	

PLUMBING EQUIPMENT SCHEDULE	
ITEM	DESCRIPTION
WH-1	STATE CSB-52-15 IFE, 50 GALLON ELECTRIC WATER HEATER WITH (3) SIMULTANEOUS 5 KW (15 KW TOTAL) 208VAC/3-PHASE IMMERSION ELEMENTS, 77 GAL/HR RECOVERY @ 80° F. FURNISH WITH ASME TEMPERATURE & PRESSURE RELIEF VALVE. DIMENSIONS = 27" DIA X 55-3/4" TALL. OPERATING WEIGHT = 680 LB
DET-1	AMTROL ST-5 DOMESTIC WATER BLADDER TYPE PRESSURE TANK FOR 2.0 GALLONS TANK VOLUME AND 0.9 GALLON ACCEPTANCE VOLUME, RATED FOR 150 PSI WORKING PRESSURE, PRECHARGED TO SYSTEM PRESSURE AT CONNECTION LOCATION. SYSTEM CONNECTION SIZE = 3/4" NPTF. DIMENSIONS = 8" DIA X 13" TALL. WEIGHT WITH RUPTURED BLADDER = 22 LB
CP-1	BELL & GOSSETT E3-6V/BTXRC DOMESTIC WATER RECIRCULATING PUMP CONSISTING OF LEAD FREE CONSTRUCTION FOR POTABLE WATER OPERATION. CAPACITY = 1 GPM @ 9.0 FT TDH. ELECTRICAL = 28 WATTS, 115V/1φ. PROVIDE WITH VARIABLE MOTOR SPEED CONTROL, BUILT-IN ADJUSTABLE THERMOSTATIC CONTROL AND BUILT-IN PRE-ASSEMBLED TIMER SET TO TURN PUMP ON AT 7:00 AM AND OFF AT 6:00 PM.
BFP-1	WILKINS #975XL2CU-MS WITH #2W206 3/4"-2" LEAD-FREE REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY WITH NORMALLY OPEN AUTOMATIC SOLENOID SHUT-OFF CONTROL VALVE AND TIMER. ASSE LISTED 1013 AND APPROVED BY THE FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH AT THE UNIVERSITY OF SOUTHERN CALIFORNIA. SUPPLIED WITH FULL PORT BALL VALVES. THE MAIN BODY AND ACCESS COVER SHALL BE CAST BRONZE (ASTM B 584). THE SEAT DISC ELASTOMERS SHALL BE EPDM. PROVIDE WITH BRONZE Y-STRAINER. (ELECTRICAL: 115V/1-φ, 5 AMPS)
PRV-1	WILKINS #ZW209BP PILOT OPERATED PRESSURE REDUCING CONTROL VALVE WITH LOW FLOW BY-PASS CONSTRUCTED OF LEAD-FREE BRASS OR IRON WITH REPLACEABLE STAINLESS STEEL SEATS, STAINLESS STEEL STRAINER SCREEN, REINFORCED BUNA-N DIAPHRAGM, EPDM VALVE DISC SUITABLE FOR 33 DEG F. - 160 DEG F. AND 300 PSI MAXIMUM WORKING PRESSURE. MEETS REQUIREMENTS OF ASSE STANDARD 1003; (ANSI A112.26); CSA STANDARD B356; SOUTHERN STANDARD PLUMBING CODE, MILITARY STANDARD MIL-V-18146B AND LISTED BY IAPMO. PROVIDE INLINE Y TYPE STRAINER AHEAD OF VALVE. SIZES AS INDICATED ON DRAWINGS.

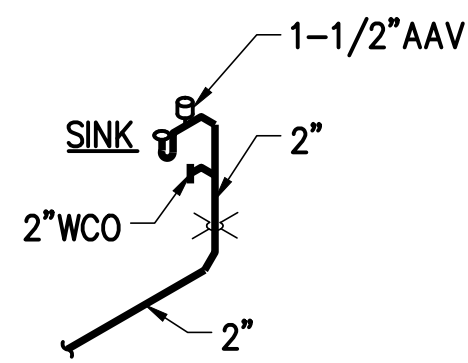
PLUMBING FIXTURE SCHEDULE								
MARK	DESCRIPTION	MFR/MODEL	ROUGH-IN (INCHES)					NOTES
			HW	CW	V	TRAP	S/W	
WC-1A	ADA COMPLIANT FLOOR SET FLUSH TANK TYPE CLOSE COUPLED TOILET WITH LOW CONSUMPTION 1.28 GPF WATERSENSE CERTIFIED SIPHON JET FLUSHING ACTION, ELONGATED BOWL, BOLT DOWN LOCKING TANK LID, GLAZED TRAPWAY. PROVIDE CHROME PLATED 1/2" NOM. COMP. X 3/8" NOM. COMP. ANGLE STOP AND SEAMLESS CHROME PLATED COPPER TUBE WATER SUPPLY WITH CHROME PLATED (1) PIECE SET SCREW TYPE CHROME PLATED BRASS ESCUTCHEON AT WALL PENETRATION. PROVIDE OPEN FRONT WHITE SEAT LESS COVER WITH SELF SUSTAINING CHECK HINGE. ALL TRIM TO BE CHROME PLATED COPPER OR BRASS.	TOILET = TOTO #CST454CE(R)G OR EQUAL BY AMER. STD., KOHLER, CRANE SEAT = TOTO #SC534-D1 OR EQUAL BY OLSONITE, BENEKE, CHURCH, BEMIS, CENTOCO		1/2	2		4	FLOOR MOUNTED WITH WAX OR NEOPRENE CLOSET RING. SET WITH PLASTER OF PARIS AND WHITE NON-HARDENING ADHESIVE SEALANT BETWEEN THE FLOOR AND THE FIXTURE BASE WITH "COVER" FINISHING. ADA WATER CLOSET TANKS ARE TO BE PROVIDED WITH LEFT OR RIGHT HAND TRIP LEVERS AS REQUIRED TO ALLOW FOR TRIP LEVERS ARE TO BE INSTALLED TO WIDE SIDE OF ADA TOILET STALL.
L-1A	ADA COMPLIANT 20"x18" VITREOUS CHINA WALL HUNG LAVATORY SINK WITH HOLE DRILLINGS TO MEET FAUCET SPECIFICATIONS. PROVIDE CHROME PLATED BRASS PERFORATED GRID DRAIN WITH ADA WHEELCHAIR OFFSET DRAIN, CHROME PLATED BRASS P-TRAP AND WASTE ARM, 1/2" NOM. COMP. X 3/8" NOM. COMP. CHROME PLATED ANGLE STOPS WITH WHEEL HANDLES, CHROME PLATED FLEXIBLE SEAMLESS COPPER TUBE SUPPLIES, (1) PIECE SET SCREW TYPE CHROME PLATED CAST BRASS ESCUTCHEONS AT WALL PENETRATIONS, AND WALL SUPPORT SYSTEM WITH CONCEALED ARM SUPPORTS, WELDED FEET, RECTANGULAR STEEL UPRIGHTS, AND MOUNTING FASTENERS. FAUCET TO BE OF CHROME PLATED CAST BRASS CONSTRUCTION WITH 0.50 GPM VANDAL RESISTANT AERATOR AND CERAMIC DISK CARTRIDGE TYPE VALVE. PROVIDE ASSE 1070 MIXING VALVE BELOW LAVATORY SET AT 105 DEG F DISCHARGE TEMP. ALL TRIM TO BE CHROME PLATED COPPER OR BRASS.	LAVATORY = ZURN #Z5341 OR EQUAL BY TOTO, KOHLER, CRANE, AMER STD FAUCET = ZURN #Z81000-3M OR EQUAL BY AMERICAN STANDARD, KOHLER, DELTA, SYMMONS, CHICAGO MIXING VALVE = LEONARD #170-LF OR EQUAL BY WATTS, SYMMONS, POWERS, WILKINS, ZURN DRAIN = DEARBORN BRASS #760W-1 OR EQUAL BY BRASSCRAFT, KOHLER, AMER. STD., DELTA, CHICAGO, T&S BRASS, PROFLO TRAP AND SUPPLY INSULATION = TRUEBRO #103 E-Z OR EQUAL BY BROCAR, PROFLO CARRIER = ZURN #Z1231 OR EQUAL BY JOSAM, J.R. SMITH, WADE, MIFAB	1/2	1/2	1 1/2	1 1/4	1 1/2	INSTALL MIXING VALVE ON WALL BELOW LAVATORY. CONNECT 3/8"HW AND 3/8"CW TO MIXING VALVE, EXTEND 3/8" TEMPERED WATER FROM MIXING VALVE TO FAUCET HOT WATER INLET.
L-2A	ADA COMPLIANT 40"x18"x3 COUNTER WITH 20"x13"x5" FLOATING CONCRETE SINK. PROVIDE WITH ADA WHEELCHAIR OFFSET DRAIN, CHROME PLATED BRASS P-TRAP AND WASTE ARM, 1/2" NOM. COMP. X 3/8" NOM. COMP. CHROME PLATED ANGLE STOPS WITH WHEEL HANDLES, CHROME PLATED FLEXIBLE SEAMLESS COPPER TUBE SUPPLIES, AND (1) PIECE SET SCREW TYPE CHROME PLATED CAST BRASS ESCUTCHEONS AT WALL PENETRATIONS. FAUCET TO BE OF BRONZE PLATED CAST BRASS CONSTRUCTION WITH 0.50 GPM VANDAL RESISTANT AERATOR AND CERAMIC DISK CARTRIDGE TYPE VALVE. PROVIDE ASSE 1070 MIXING VALVE BELOW LAVATORY SET AT 105 DEG F DISCHARGE TEMP. ALL TRIM TO BE CHROME PLATED COPPER OR BRASS.	LAVATORY = TRUEFORM CONCRETE #FLO-40V-CONTEMPO-STORM FAUCET = DELTA #35747LF-CZ OR EQUAL BY AMERICAN STANDARD, KOHLER, ZURN, SYMMONS, CHICAGO MIXING VALVE = LEONARD #170-LF OR EQUAL BY WATTS, SYMMONS, POWERS, WILKINS, ZURN DRAIN = DEARBORN BRASS #760W-1 OR EQUAL BY BRASSCRAFT, KOHLER, AMER. STD., DELTA, CHICAGO, T&S BRASS, PROFLO TRAP AND SUPPLY INSULATION = TRUEBRO #103 E-Z OR EQUAL BY BROCAR, PROFLO	1/2	1/2	1 1/2	1 1/4	1 1/2	INSTALL MIXING VALVE ON WALL BELOW LAVATORY. CONNECT 3/8"HW AND 3/8"CW TO MIXING VALVE, EXTEND 3/8" TEMPERED WATER FROM MIXING VALVE TO FAUCET HOT WATER INLET.
S-1A	ADA COMPLIANT APPROVED 22" WIDE X 19" LONG X 6-1/2" DEEP SINGLE COMPARTMENT SELF RIMMING SINK CONSTRUCTED OF 18 GAUGE SOUND DAMPENED STAINLESS STEEL WITH HOLE DRILLINGS TO MEET FAUCET SPECIFICATIONS. PROVIDE STAINLESS STEEL BASKET STRAINER, CHROME PLATED BRASS P-TRAP AND WASTE ARM, 1/2" NOM. COMP. X 3/8" NOM. COMP. CHROME PLATED ANGLE STOPS WITH WHEEL HANDLES, CHROME PLATED FLEXIBLE SEAMLESS COPPER TUBE SUPPLIES, AND (1) PIECE SET SCREW TYPE CHROME PLATED CAST BRASS ESCUTCHEONS AT WALL PENETRATIONS. FAUCET TO BE OF CHROME PLATED CAST BRASS CONSTRUCTION WITH 2.2 GPM VANDAL RESISTANT AERATOR AND CERAMIC DISK CARTRIDGE TYPE VALVE. ALL TRIM TO BE CHROME PLATED COPPER OR BRASS.	SINK = ELKAY #LRAD-2219R OR EQUAL BY JUST, MOEN FAUCET = AMER. STD. #4175.300 OR EQUAL BY KOHLER, DELTA, SYMMONS, CHICAGO DISPOSAL = ISE BADGER 5 OR EQUAL BY WHIRLAWAY, WASTE KING, SINKGUARD TRAP AND SUPPLY INSULATION = TRUEBRO #102-E-Z & #402W OR EQUAL BY BROCAR, PROFLO	1/2	1/2	1 1/2	1 1/2	1 1/2	DISPOSAL ELECTRICAL LOAD = 115VAC, 60 HZ, 8.1 FLA, CONTROL FROM WALL SWITCH.
S-2A	ADA COMPLIANT APPROVED 28-1/2" WIDE X 17-1/2" LONG X 5-1/2" DEEP SINGLE COMPARTMENT INTEGRAL SOLID SURFACE SINK CONSTRUCTED ACRYLIC-POLYESTER. PROVIDE STAINLESS STEEL BASKET STRAINER, CHROME PLATED BRASS P-TRAP AND WASTE ARM, 1/2" NOM. COMP. X 3/8" NOM. COMP. CHROME PLATED ANGLE STOPS WITH WHEEL HANDLES, CHROME PLATED FLEXIBLE SEAMLESS COPPER TUBE SUPPLIES, AND (1) PIECE SET SCREW TYPE CHROME PLATED CAST BRASS ESCUTCHEONS AT WALL PENETRATIONS. FAUCET TO BE OF CHROME PLATED CAST BRASS CONSTRUCTION WITH 1.5 GPM VANDAL RESISTANT AERATOR AND CERAMIC DISK CARTRIDGE TYPE VALVE. ALL TRIM TO BE CHROME PLATED COPPER OR BRASS.	SINK = CORIAN #5610 CAMEO WHITE FAUCET = AMER. STD. #2475F OR EQUAL BY KOHLER, DELTA, SYMMONS, CHICAGO STRAINER = ELKAY #LK35L OR EQUAL BY BRASSCRAFT, DEARBORN BRASS, KOHLER, AMER. STD., DELTA, CHICAGO, T&S BRASS, PROFLO TRAP AND SUPPLY INSULATION = TRUEBRO #102-E-Z & #402W OR EQUAL BY BROCAR, PROFLO	1/2	1/2	1 1/2	1 1/2	1 1/2	
SH-1A	ADA COMPLIANT PRESSURE BALANCE MIXING VALVE OF CHROME PLATED BRASS AND BRONZE CONSTRUCTION, ASSE 1016 CERTIFIED, ADJUSTABLE HIGH LIMIT TEMPERATURE STOP SET AT 110 DEGREES F., BUILT IN SHUT-DOWN UPON FAILURE OF HOT OR COLD WATER SUPPLY, COLOR CODED DIAL WITH DIRECTIONAL INDICATOR, CAST CHROME PLATED WALL FLANGE, AND SCREWDRIVER STOPS ON SUPPLY CONNECTIONS. PROVIDED HAND HELD SHOWER, 1.5 GPM AT 80 PSI WATERSENSE CERTIFIED MAXIMUM FLOW RATE, 60" MINIMUM LENGTH FLEXIBLE HOSE SUPPLY, 24" MINIMUM ADJUSTABLE SLIDE BAR, INLINE CHROME PLATED VACUUM BREAKER, AND CHROME PLATED SUPPLY ELBOW AND WALL FLANGE. PROVIDE PREFABRICATED SHOWER ENCLOSURE WITH SLIP RESISTANT TEXTURED FLOOR, SHOWER CURTAIN WITH ROD, CENTER DRAIN LOCATION, AND A MAXIMUM LIP OF 1/2" AT ENTRY TO SHOWER. ADA APPROVED UNITS TO BE PROVIDED WITH BARRIER FREE ADA DESIGN L SHAPED GRAB BAR AND L SHAPED FOLD UP SEAT.	SHOWER VALVE = DELTA #R10000-UNWS VALVE WITH T13HTS2-00 WITH OR EQUAL BY KOHLER, AMER. STD. SHOWER ENCLOSURE = AQUATIC #1363-BFSD OR EQUAL BY FIAT, MUSTEE, AQUABATH, STERLING	1/2	1/2	1 1/2	2"	2"	ADA UNIT HANDHELD SHOWER TO BE MOUNTED SO THAT ADJUSTABLE RANGE OF HEAD MOVEMENT ON BAR IS BETWEEN 48" AND 72" AFF.
EW-1A	ADA COMPLIANT DUAL HEIGHT WALL HUNG ELECTRIC WATER COOLER WITH BAKED ENAMEL OR VINYL COVERED STEEL BODY AND STAINLESS STEEL TOP/TRIM AND BOTTLE FILLER INSTALLED IN WALL ABOVE MAIN UNIT. PROVIDE WITH AUTOMATIC STREAM REGULATOR, FILTER, SCREWDRIWER STOP, AND FAN COOLED REFRIGERATED CONDENSING UNIT. MANUFACTURER TO CERTIFY UNIT TO BE LEAD FREE AS DEFINED BY THE SAFE DRINKING WATER ACT. PROVIDE CHROME PLATED BRASS P-TRAP AND WASTE ARM, 1/2" NOM. COMP. X 3/8" NOM. COMP. CHROME PLATED ANGLE STOP WITH WHEEL HANDLE, AND CHROME PLATED FLEXIBLE SEAMLESS COPPER TUBE SUPPLY. PROVIDE WALL SUPPORT SYSTEM WITH TOP AND BOTTOM SUPPORT PLATES, WELDED FEET, RECTANGULAR STEEL UPRIGHTS, AND MOUNTING FASTENERS.	ELECTRIC WATER COOLER = ELKAY #LZSTLWS(VR)LK OR EQUAL BY OASIS, HAWS, SUNROC, HALSEY TAYLOR CARRIER = ZURN #Z1225 OR EQUAL BY JOSAM, J.R. SMITH, WADE, MIFAB		1/2	1/2	1 1/2	1 1/2	INSTALL SPOUT HEIGHTS AS REQUIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS TO MEET ADA REQUIREMENTS.  ELECTRICAL LOAD = 115VAC, 60HZ 370 WATTS, 4.0 FLA
SS-1	ONE PIECE MOLDED STONE STAIN AND CHEMICAL RESISTANT SERVICE SINK BASIN WITH 10" HIGH SIDES, STAINLESS STEEL WALL GUARDS, 3"IPS INTEGRAL STAINLESS STEEL DRAIN, AND REMOVABLE STRAINER. PROVIDE FAUCET MOUNTED AT 40" ABOVE FINISHED FLOOR WITH INTEGRAL VACUUM BREAKER, BUCKET HOOK, AND WALL BRACE. PROVIDE 5 FT. 5/8" HOSE WITH WALL CLAMPS AND MOP HANGER MOUNTED OVER SINK	SERVICE SINK = FIAT #MSB-2424 WITH #832-AA AND #889-CC OR EQUAL BY STERN WILLIAMS, FLORESTONE FAUCET = FIAT #830-AA OR EQUAL BY AMER. STD., T&S BRASS, KOHLER, DELTA, CHICAGO	1/2	1/2	2	3	3	UNIT TO BE INSTALLED ON A MORTAR BED
IWB-1	FIRE RATED COLD ROLLED HEAVY DUTY STEEL RECESSED WALL BOX WITH WHITE POWDER COAT FINISH, DOMESTIC WATER SUPPLY AND SHUT-OFF VALVE FOR COLD WATER SUPPLY.	ICE MACHINE SUPPLY WALL BOX = GUY GRAY #FR-12 OR EQUAL BY SPECIALTY PRODUCTS, SIOUX CHIEF		1/2				INSTALL RECESSED WALL UTILITY BOX PER MANUFACTURER'S INSTALLATION INSTRUCTIONS TO MAINTAIN FIRE RATING OF WALL BOX IS INSTALLED IN.
ES-1	12"x12" CAST IRON SANITARY FLOOR SINK WITH ACID RESISTING PORCELAIN ENAMEL OR EPOXY COATED INTERIOR. DOUBLE DRAINAGE FLANGE WITH WEEPHOLES WHERE WATERPROOF MEMBRANES OCCUR, REMOVABLE INTERNAL ANTI-SPLASH DOME STRAINER, NICKEL BRONZE 1/2 CRATE, 1/2" PRIMER TAPPING, AND DRAIN OUTLET OF SIZE INDICATED ON DRAWINGS. PROVIDE P-TRAP OF MATERIAL SPECIFIED FOR DRAINAGE PIPING AND SIZE INDICATED ON DRAWINGS. PROVIDE NEOPRENE RUBBER DIAPHRAGM TRAP SEAL IN DRAIN OUTLET.	FLOOR SINK = ZURN #ZN1902-KC-2-33-P OR EQUAL BY JOSAM, J.R. SMITH, WADE TRAP SEAL = SURE SEAL INLINE NEOPRENE RUBBER DIAPHRAGM				SEE NOTES	SEE NOTES	SET DRAIN FLUSH AND LEVEL WITH FINISHED SURFACES. COORDINATE PLACEMENT WITH OTHER TRADES. COVER DRAIN DURING CONSTRUCTION TO PREVENT FOREIGN OBSTACLES FROM ENTERING DRAIN. FLOOR DRAIN CONNECTION SIZE AS NOTED ON PLANS.



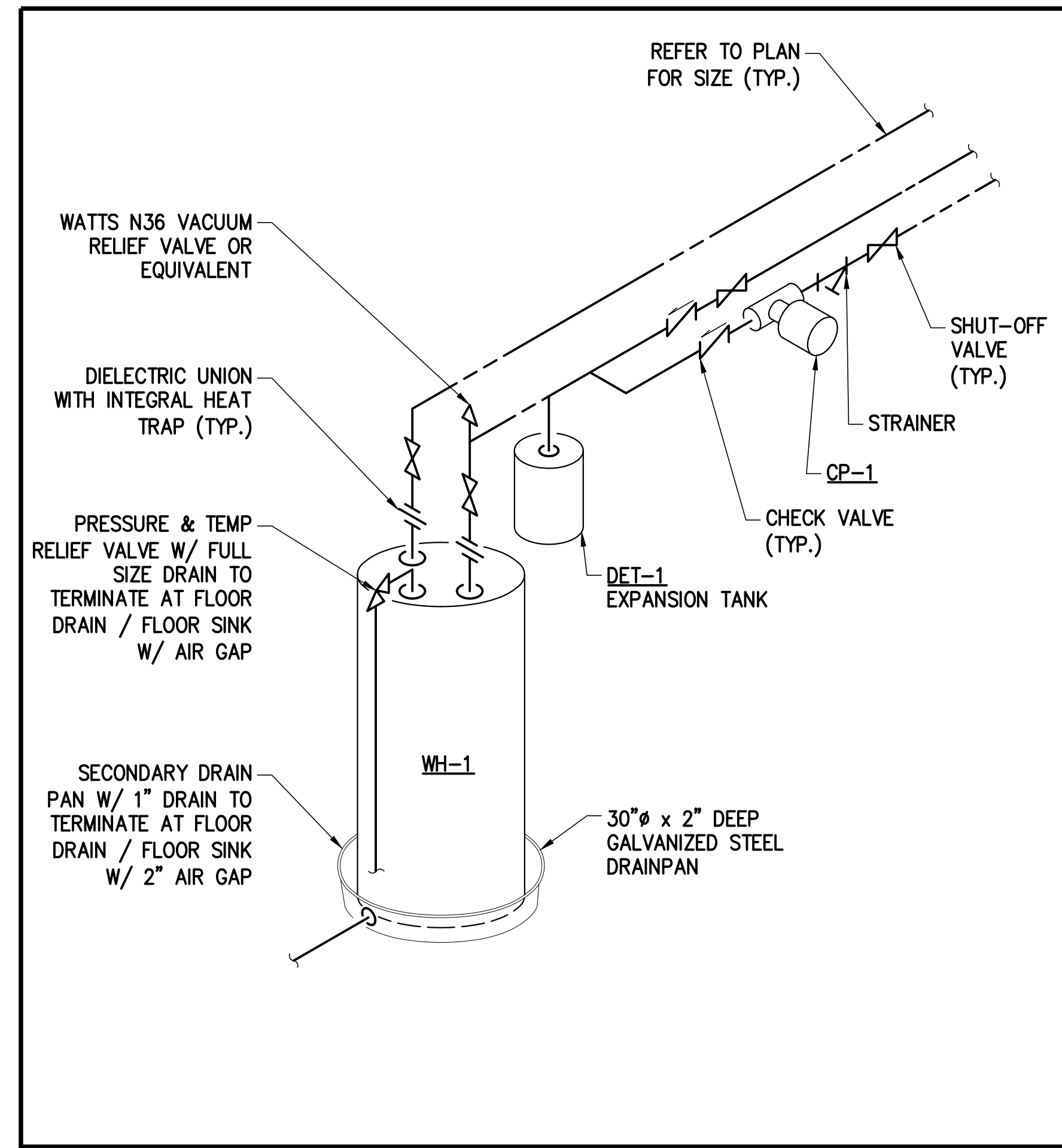
**TYPICAL SINGLE BATHROOM WASTE AND VENT ISOMETRICS**  
NO SCALE



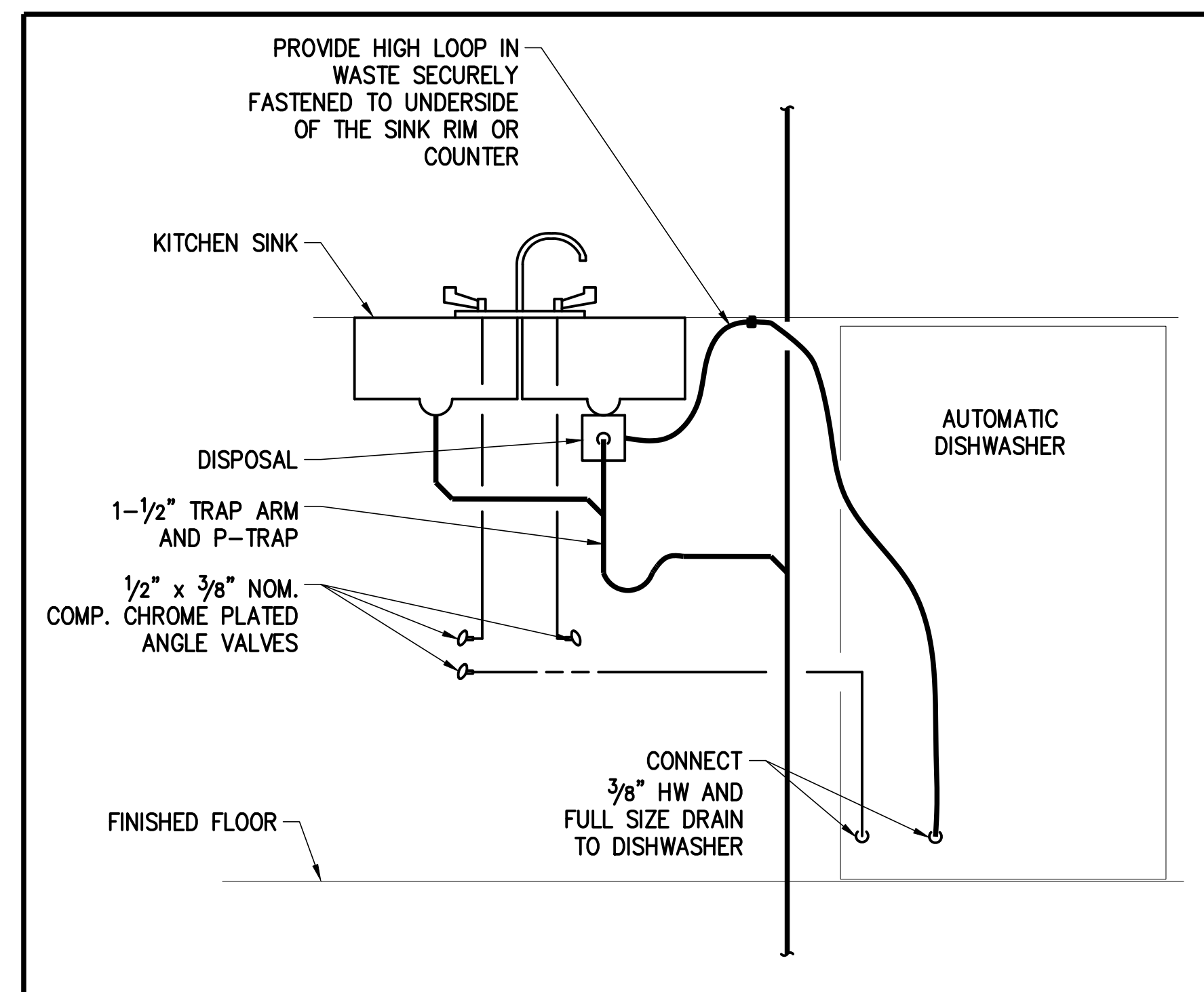
**TYPICAL SERVICE SINK WASTE AND VENT ISOMETRIC**  
NO SCALE



**TYPICAL SINK WASTE AND VENT ISOMETRIC**  
NO SCALE



**ELECTRIC WATER HEATER DETAIL**  
NO SCALE



**SINK / DISHWASHER DETAIL**  
NO SCALE

REVISIONS

NO	DESCRIPTION	DATE

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CONSULTANT SEAL: **ANGEL AESTHETICS** 1-12-23

CONSULTANT PROJECT NO.: 2024-097-01

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SHEET NAME:  
**PLUMBING SCHEDULES & DETAILS**

ISSUE DATE: **01/13/2025** ISSUED FOR: **PERMIT & CONSTRUCTION**

DESIGNED: **TMB** PROJECT NO.: **2024.55**

OAGC: **BEM** SHEET NO.: **P301**

SCALE: **As indicated**