

Pikes Peak REGIONAL Building Department

CODE STUDY FORM

SECTION 1.0

This form is intended to be completed using a PDF reader and must be stamped by the design professional of record. This form must be included as an attachment, or as part of the second page of the plans for all commercial projects. All information must be provided.

Address: _____ City: _____ Zip: _____

Tax Schedule Number:⁽¹⁾

Legal Description:⁽¹⁾

ZONING DISTRICT: ⁽¹⁾

FIRE JURISDICTION: ⁽¹⁾

IF OTHER, SPECIFY

⁽¹⁾ This information may be found [HERE](#)

SCOPE OF PROJECT:

PHASED PROJECTS:

Foundation Only	Superstructure	Core/Shell	Finish
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REGULAR PROJECTS:

Interior Remodel	Interior Finish	Addition	Complete Building
Change of Occupancy	Other		

SUMMARIZED DESCRIPTION OF WORK:

PRINCIPAL USE OF BUILDING:

TYPE OF CONSTRUCTION: (*International Building Code*)

I-A	II-A	III-A	IV-A	IV-C	V-A
I-B	II-B	III-B	IV-B	IV-HT	V-B

BUILDING HEIGHTS AND AREAS*:

Total Building Area:	Ft ²	Existing Building Area:	Ft ²
First Floor:	Ft ²	New Building Area:	Ft ²
Second Floor:	Ft ²	Total Height:	Ft
Third Floor:	Ft ²	Number of Stories:	
Fourth Floor:	Ft ²	Basement Area:	Ft ²
Fifth Floor:	Ft ²	Number of Mezzanines:	
Sixth Floor:	Ft ²	Mezzanine Area:	Ft ²
Seventh Floor:	Ft ²	Unlimited Area Buildings:	

TOTAL AREA FOR SCOPE OF WORK: **Ft²**

* Provide per floor details, height increase (IBC 504), and area increase (IBC 506) calculations on plans if applicable. If additional stories are required, provide an additional sheet.

COMPLETION OF THIS FORM DOES NOT TAKE THE PLACE OF REQUIRED CODE DATA ON THE PLAN SET

CODE STUDY FORM

SECTION 2.0

OCCUPANCIES: *Specify all occupancies that apply and indicate the square footage of each*

Ft²

Ft²

Ft²

Ft²

Ft²

Ft²

SPECIAL USE AND OCCUPANCIES

YES

NO

List all, if more than one applies:

SEPARATION OF OCCUPANCIES:

Nonseparated Occupancies

Separated Occupancies

No Mixed Occupancies

If Nonseparated Occupancies, specify worst case occupancy:

INCIDENTAL USE AREAS: *List any incidental use areas and separation requirements.*

Use:

Separation:

Hrs

Use:

Separation:

Hrs

Use:

Separation:

Hrs

ACCESSORY OCCUPANCY AREAS: *Maximum allowed is 10%*

Accessory Occupancy:

Accessory Area:

Ft²

Accessory Occupancy:

Accessory Area:

Ft²

Accessory Occupancy:

Accessory Area:

Ft²

FIRE SPRINKLER SYSTEM: Non-Sprinklered

Sprinklered

CLASSIFICATION OF FIRE SPRINKLER SYSTEM:

FIRE ALARM SYSTEM: Not Required

Required

MEANS OF EGRESS: *For scope of work*

Exits Required:

Exits Provided:

Occupant Load:

Number of Interior Exit Stairways:

Actual Max. Travel Distance:

Ft

Interior Exit Stairway Rating:

Hrs

Actual Common Path of Travel:

Ft

Number of Fire Walls:

Corridor Rating:

Hrs.

Fire Wall Rating:

Hrs

SHAFTS: *If this building contains rated shafts, specify required shaft support*

Shaft Construction Rating:

Hrs

Supporting Construction Rating:

Hrs

RATED HORIZONTAL ASSEMBLIES: *Location, if applicable*

Structure

Dropped Ceiling

BUILDING RISK CATEGORY:

I

II

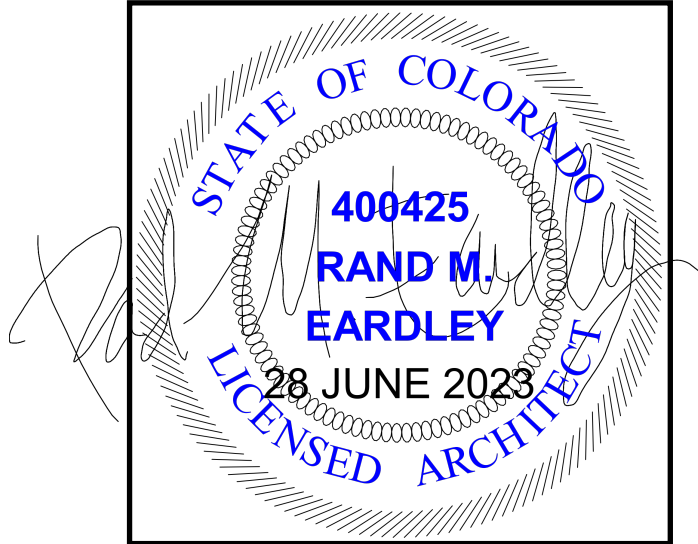
III

IV

CODE STUDY FORM

SECTION 3.0

Colorado Licensed Design



Professional Stamp

As the design professional of record, I certify this information is correct to the best of my knowledge. I further acknowledge my stamp pertains to Sections 1.0 and 2.0 only.

Rand M. Eardley

Signature

Date

Was a formal Pre-Submittal Consultation with
Pikes Peak Regional Building Department performed for this project? YES NO

With whom: _____

Is this project designated as official RAPID RESPONSE? YES NO

If so, please attach the RAPID RESPONSE CERTIFICATE to this form prior to submittal.

CONTACT INFORMATION:

Project Contact Name

Email address:

Phone Number:

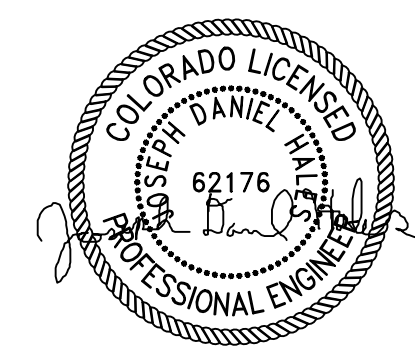
Fax Number:

CODE STUDY FORM

SECTION 4.0

	Yes	No
Does the scope of work involve a change of occupancy classification? If yes, what was the most recent existing use? Proposed use?	<input type="checkbox"/>	<input type="checkbox"/>
Will marijuana be cultivated, processed or dispensed at this location? If yes, mark all activities that will apply: Dispensary Cultivation Processing Extraction**	<input type="checkbox"/>	<input type="checkbox"/>
**Extraction activities will require this form: http://www.springsgov.com/SIB/files/2015%20HO%20Submission%20Certification%20Form(5).pdf		
If applicable, is the approved Development Plan included with this submittal?	<input type="checkbox"/>	<input type="checkbox"/>
Does this project disturb 1 or more acres, or have construction activities that are a part of a larger common plan of development or sale? If yes, a City of Colorado Springs, Stormwater Enterprise Division, Grading and Erosion Control Permit and plan is required https://coloradosprings.gov/stormwater-enterprise/page/grading-and-erosion-control-permit?mliid=6156	<input type="checkbox"/>	<input type="checkbox"/>
Does this project include an elevator, escalator, platform lift, chair lift, dumbwaiter, or other method of conveyance?	<input type="checkbox"/>	<input type="checkbox"/>
Is this permit for the purposes of finishing an existing core and shell permit (first time finish of the space)?	<input type="checkbox"/>	<input type="checkbox"/>
Is this a food establishment (equipment locations must be shown on plans)?	<input type="checkbox"/>	<input type="checkbox"/>
Does the scope of work include a swimming pool?	<input type="checkbox"/>	<input type="checkbox"/>
Does the scope of work have venting equipment (hoods, catalytic oxidizers, scrubbers)?	<input type="checkbox"/>	<input type="checkbox"/>
If applicable, are the approved civil construction drawings (including utility service plan) included in submittal?	<input type="checkbox"/>	<input type="checkbox"/>
Will there be any new utility meters or changes to existing meters? If yes, which are affected (check): Gas Electric Water Gas: Existing load Proposed load Electric: Existing load Proposed load Water: Existing load Proposed load Note: Commercial Water Meter Sizing Form required if any changes to water meter or significant fixture count changes are proposed	<input type="checkbox"/>	<input type="checkbox"/>
Will vehicle maintenance or vehicle storage (parking garage) activities occur? If yes, state square footage of area this will occur:	<input type="checkbox"/>	<input type="checkbox"/>
Will Electric Vehicle (EV) charging stations be installed? If yes, specify location and level (1, 2, or 3):	<input type="checkbox"/>	<input type="checkbox"/>
Is a sand/oil or grease interceptor proposed? If yes, state size:	<input type="checkbox"/>	<input type="checkbox"/>
Is an internal grease trap proposed? <i>If yes, contact CSU at FOG@csu.org to discuss a variance</i>	<input type="checkbox"/>	<input type="checkbox"/>
Is there a backflow prevention device indicated (hose bib locations must be shown on plan)?	<input type="checkbox"/>	<input type="checkbox"/>
Per IFC Chapter 50, does the scope of work include any hazardous materials? If the project is located within the City of Colorado Springs, attach a Hazardous Material Inventory Statement (HMIS) - available at https://coloradosprings.gov/hazmat?mliid=42381 If the project is outside the City of Colorado Springs, contact the appropriate Fire Jurisdiction	<input type="checkbox"/>	<input type="checkbox"/>
Per IFC Chapter 32, does the scope of work involve the stacking of commodities higher than 12' or high hazard commodities higher than 6' AFF? If the project is located within the City of Colorado Springs, attach a High Pile Storage Questionnaire form- available at https://coloradosprings.gov/sites/default/files/inline-images/2015_ifc_hps_questionnaire.pdf If the project is outside the City of Colorado Springs, contact the appropriate Fire Jurisdiction	<input type="checkbox"/>	<input type="checkbox"/>
Per IFC 905, does the scope of work require fire protection standpipes? If yes, indicate reason and cite code reference:	<input type="checkbox"/>	<input type="checkbox"/>
Per IBC 904, does the scope of work or building require a fixed fire protection system?	<input type="checkbox"/>	<input type="checkbox"/>
Per IBC 909, does the scope of work include a smoke control system? If yes, indicate type (check): Passive Active	<input type="checkbox"/>	<input type="checkbox"/>
Does the scope of the work include a childcare facility?	<input type="checkbox"/>	<input type="checkbox"/>
Does the scope of the work include a Body Art (tattoo, piercing, etc.) facility?	<input type="checkbox"/>	<input type="checkbox"/>
Specify total earthmoving area of project in square feet:	<input type="checkbox"/>	<input type="checkbox"/>
Will the disturbance be at least 1 acre, but less than 25 acres of land, <u>and</u> the disturbance period will be 6 months or less? If yes, submit a construction Activity Permit Application to EPC Public Health: http://www.elpasocountyhealth.org/service/air-quality/construction-activity-application .	<input type="checkbox"/>	<input type="checkbox"/>
Will the disturbance be 25 or more acres of land, <u>or</u> the disturbance period will exceed 6 months? If yes, submit an Air Pollution Emission Notice to the Colorado Department of Public Health and Environment: https://www.colorado.gov/pacific/cdphe/air/apens-and-permits	<input type="checkbox"/>	<input type="checkbox"/>

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PROJECT NAME:
**RCH VALLEY
 875 VALLEY STREET
 RCH VALLEY SITE/DEMOLITION PLAN**

CLIENT NAME:
 HHI CORPORATION

DRAWING TITLE:

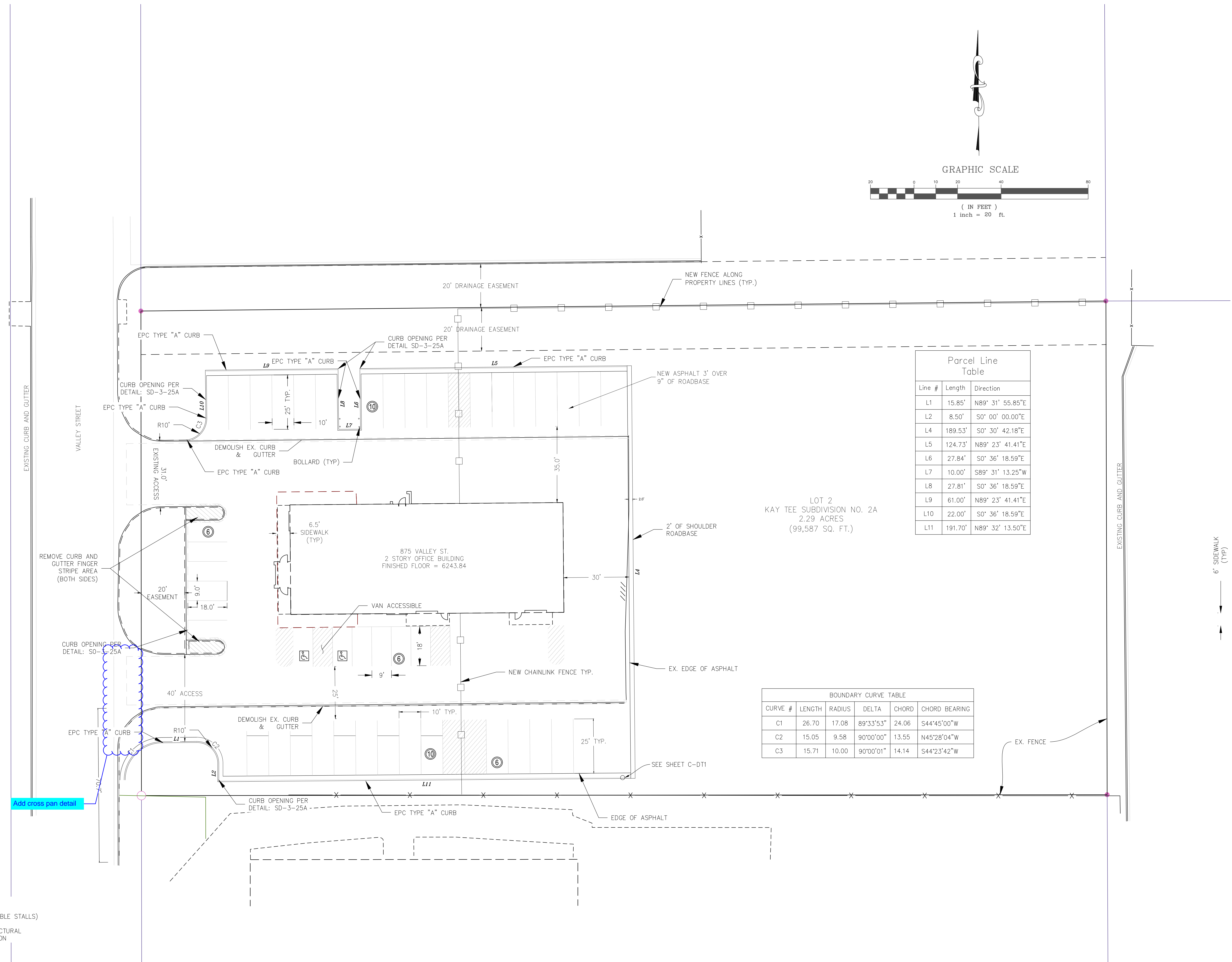
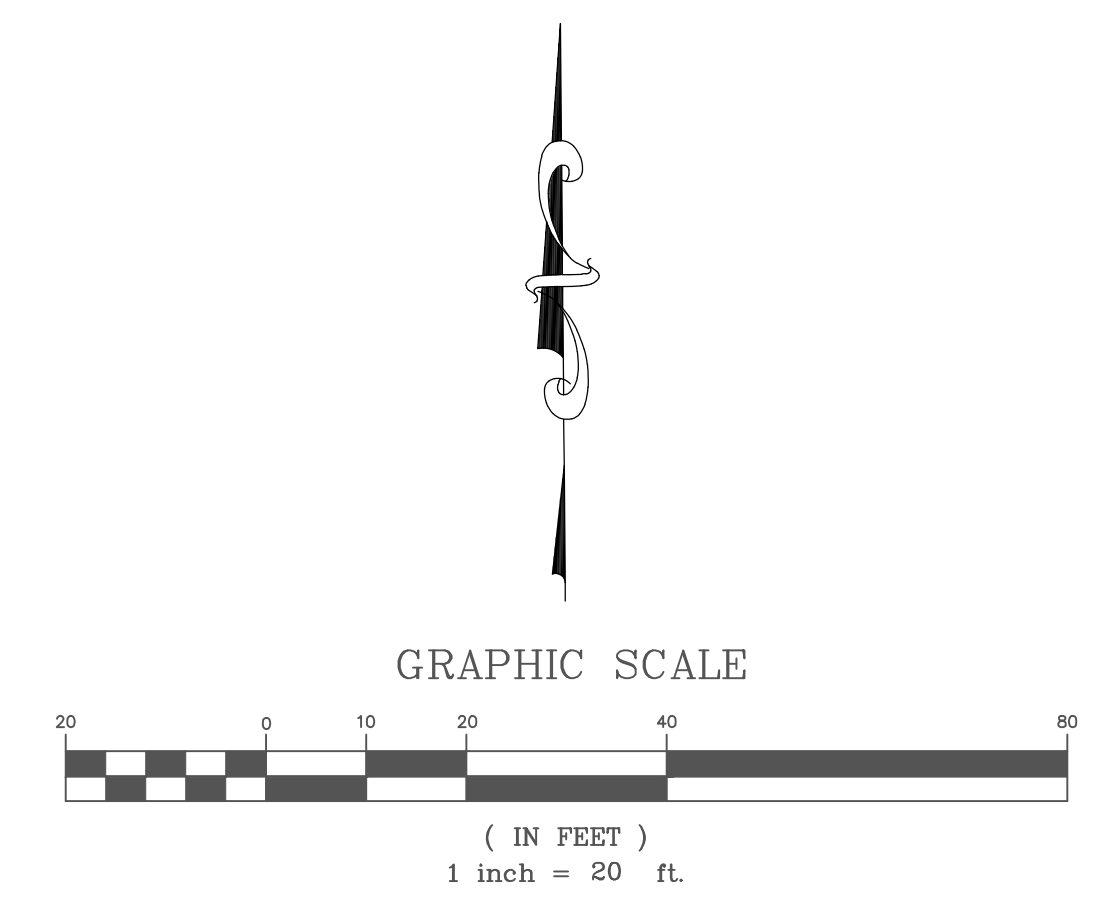
PLOT DATE:
 10-20-2023

DRAWN BY / REVIEWED BY:
 RJW/JDH

REVISIONS:

PRINTED FOR:
 FOR USE

SHEET:
C-1



Parcel Line Table

Line #	Length	Direction
L1	15.85'	N89° 31' 55.85"E
L2	8.50'	S0° 00' 00.00"E
L4	189.53'	S0° 30' 42.18"E
L5	124.73'	N89° 23' 41.41"E
L6	27.84'	S0° 36' 18.59"E
L7	10.00'	S89° 31' 13.25"W
L8	27.81'	S0° 36' 18.59"E
L9	61.00'	N89° 23' 41.41"E
L10	22.00'	S0° 36' 18.59"E
L11	191.70'	N89° 32' 13.50"E

LOT 2
 KAY TEE SUBDIVISION NO. 2A
 2.29 ACRES
 (99,587 SQ. FT.)

BOUNDARY CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA	CHORD	CHORD BEARING
C1	26.70	17.08	89°33'53"	24.06	S44°45'00"W
C2	15.05	9.58	90°00'00"	13.55	N45°28'04"W
C3	15.71	10.00	90°00'01"	14.14	S44°23'42"W

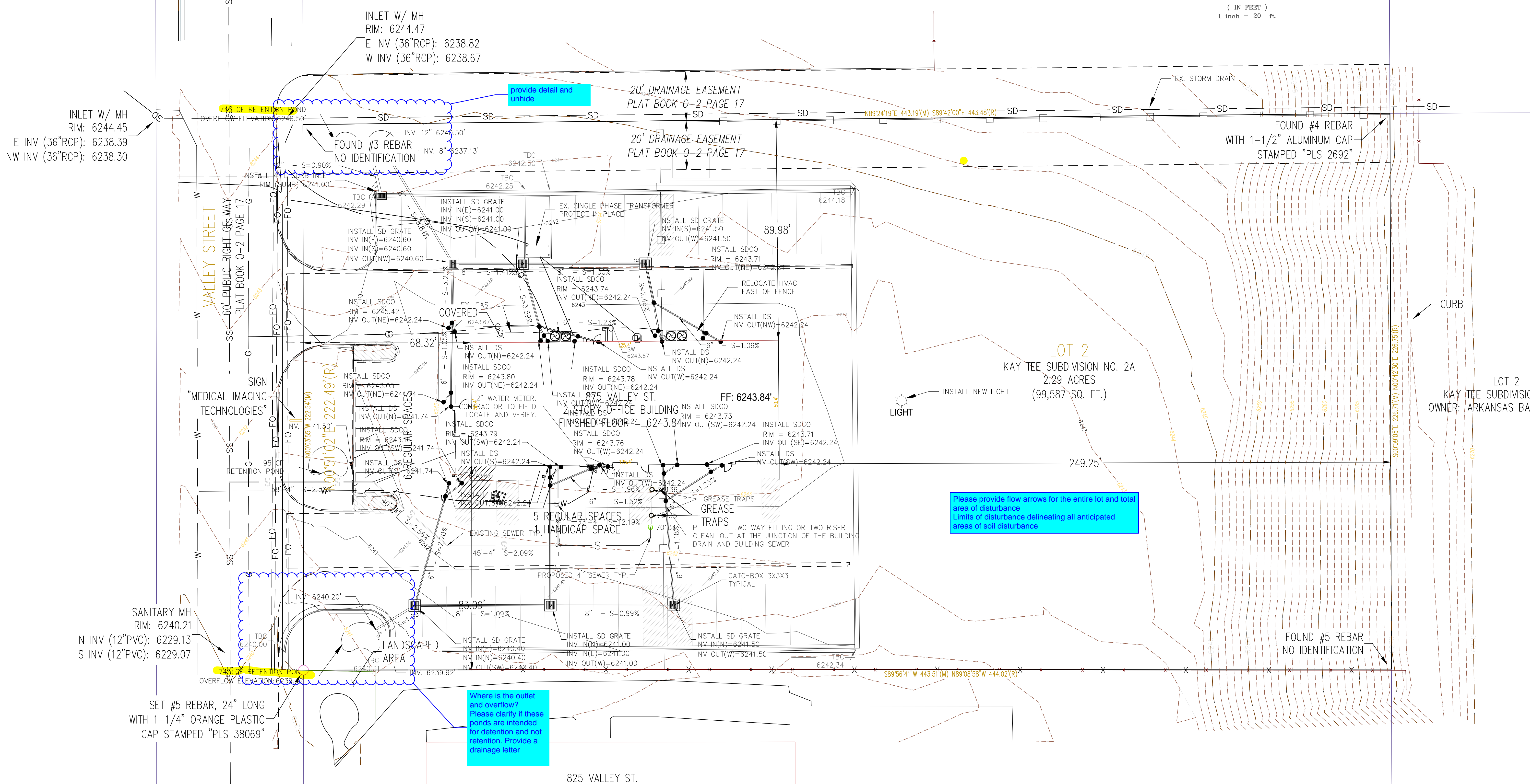
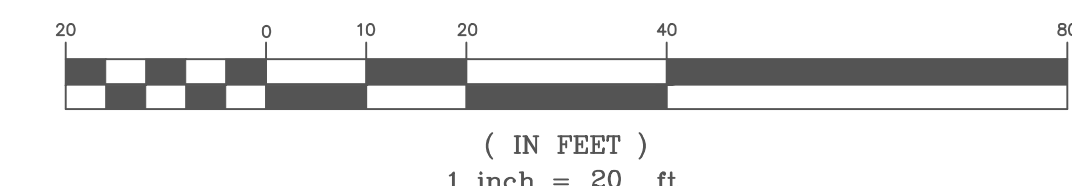
NOTES:
 2 ACCESSIBLE STALLS
 32 PUBLIC STALL (INCLUDES ACCESSIBLE STALLS)
 12 PRIVATE STALLS
 REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING CONSTRUCTION

Add cross pan detail

RIM: 6245.76
 N INV (12" PVC): 6232.75
 S INV (12" PVC): 6232.72

LOT 2
 KAY TEE SUBDIVISION NO. 2B
 OWNER: BURLEY LLC.

GRAPHIC SCALE



INLET W/ MH
 RIM: 6244.45
 E INV (36" RCP): 6238.39
 NW INV (36" RCP): 6238.30

INLET W/ MH
 RIM: 6244.47
 E INV (36" RCP): 6238.82
 W INV (36" RCP): 6238.67

SANITARY MH
 RIM: 6240.21
 N INV (12" PVC): 6229.13
 S INV (12" PVC): 6229.07

SET #5 REBAR, 24" LONG
 WITH 1-1/4" ORANGE PLASTIC
 CAP STAMPED "PLS 38069"

Where is the outlet
 and overflow?
 Please clarify if these
 ponds are intended
 for detention and not
 retention. Provide a
 drainage letter

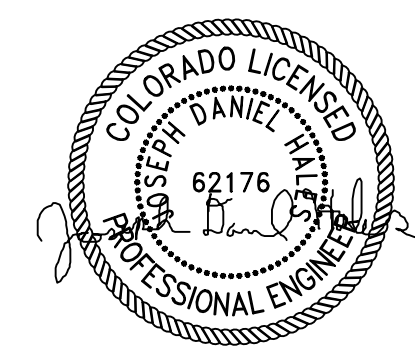
Please provide flow arrows for the entire lot and total
 area of disturbance
 Limits of disturbance delineating all anticipated
 areas of soil disturbance

NOTES:
 ALL STORM DRAIN TO BE PVC SDR-26 WITH A
 MINIMUM 1% SLOPE
 TOP OF GRATE SHALL BE 3" BELOW ASPHALT
 FINISHED SURFACE

8160 SOUTH HIGHLAND DRIVE
 SUITE 106, SANDY UTAH 84093
 385-557-1500

HCF

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PROJECT NAME:
 RCH VALLEY
 875 VALLEY STREET
 UTILITY & GRADING PLAN

CLIENT NAME:
 HHI CORPORATION

DRAWING TITLE:
 UTILITY AND GRADING

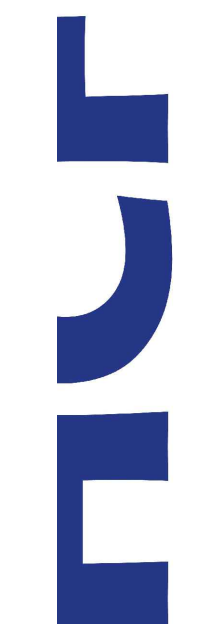
PLOT DATE:
 10-20-2023

DRAWN BY / REVIEWED BY:
 RJW/JDH

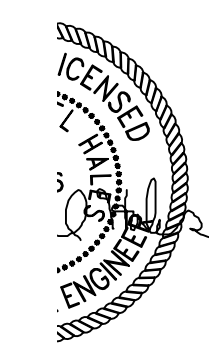
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CONSENT OF



RCH VALLEY
875 VALLEY STREET

DETAILS

CLIENT NAME:	HHI CORPORATION
RAWING TITLE:	
LOT DATE:	10-20-2023
RAWN BY / REVIEWED BY:	RJW/JDH
REVISIONS:	
PRINTED FOR:	FOR USE
SHEET:	DT-1

Typical Curb and Gutter Standard Drawing

DATE APPROVED: 6/23/20
 REVISION DATE: 6/23/20
 FILE NAME: SD_2-20

DESIGNED BY: Jennifer E. Irvine
 DEPARTMENT OF PUBLIC WORKS

LEGEND FOR RADI
 A 1/8" TO 1/4"
 B 1-1/2"
 C 1-1/2" TO 2"

NOTE: GUTTER CROSS SLOPES SHALL BE 1/2 IN./FT. WHEN DRAWING AWAY FROM CURB AND 1 IN./FT. WHEN DRAWING TOWARD CURB WITH EXCEPTION TO IMMEDIATELY ADJACENT TO CURB RAMPS - SEE CURB RAMP STANDARDS FOR SLOPE REQUIREMENTS.

SCALE: NOT TO SCALE

Typical Cross Pan Layout Detail Standard Drawing

DATE APPROVED: 8/11/11
 REVISION DATE: 12/8/15
 FILE NAME: SD_2-26

DESIGNED BY: André P. Brackin
 DEPARTMENT OF TRANSPORTATION

NOTES:
 1. W - WIDTH SHALL BE 6' FOR LOCAL, 8' FOR COLLECTORS, AND 10' FOR ARTERIAL ROADS.
 2. T - SQUARED-OFF RETURN TO BE POURED MONOLITHICALLY, 8" PCC FOR LOCAL ROADS, 9" FOR COLLECTORS WITH 6x6 - 4.4 W.W.F. OR #4 REINFORCING BAR @ 18" EACH WAY.
 3. [Hatched Area] = 3" MINIMUM ASPHALT DEPTH (2 LIFTS).
 4. DESIGN TO SPECIFY ELEVATIONS AT PI AND PCR.

SCALE: NOT TO SCALE

Driveway Cut Detail Standard Drawing

DATE APPROVED: 8/11/11
 REVISION DATE: 11/10/04
 FILE NAME: SD_2-23

DESIGNED BY: André P. Brackin
 DEPARTMENT OF TRANSPORTATION

NOTE: EXPANSION JOINT MATERIAL REQUIRED. IF CONCRETE DRIVE IS USE BEHIND CURB CUT.

SCALE: NOT TO SCALE

COMMERCIAL DRIVEWAY CUT DETAIL
NTS

ASPHALT STRUCTURAL SECTION
NTS

NOTE: ROTOMILL EXISTING ASPHALT FOR BASE

SUITABLE NATIVE

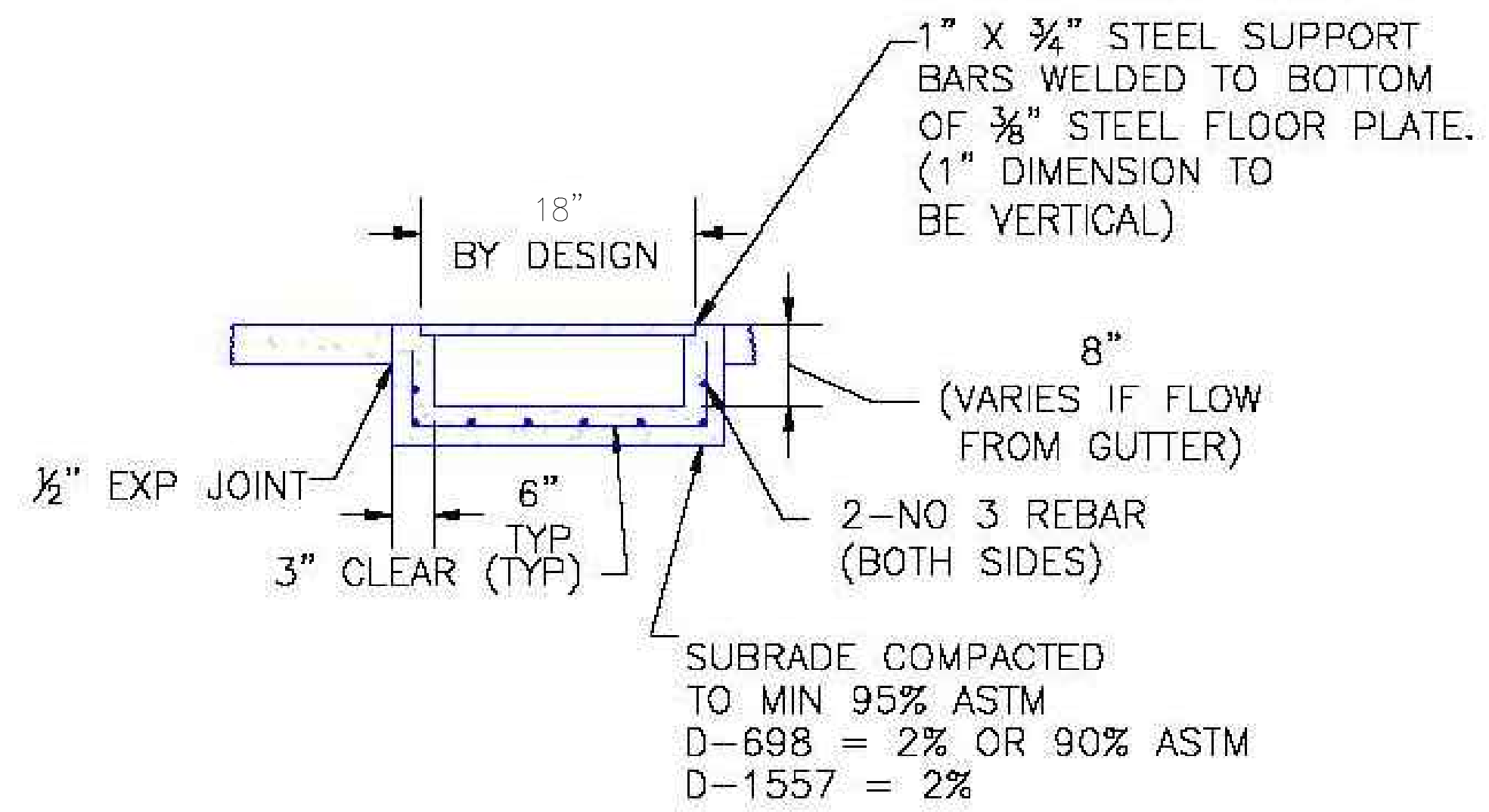
FRONT VIEW

5.00' CURB CUT WIDTH 5.00'

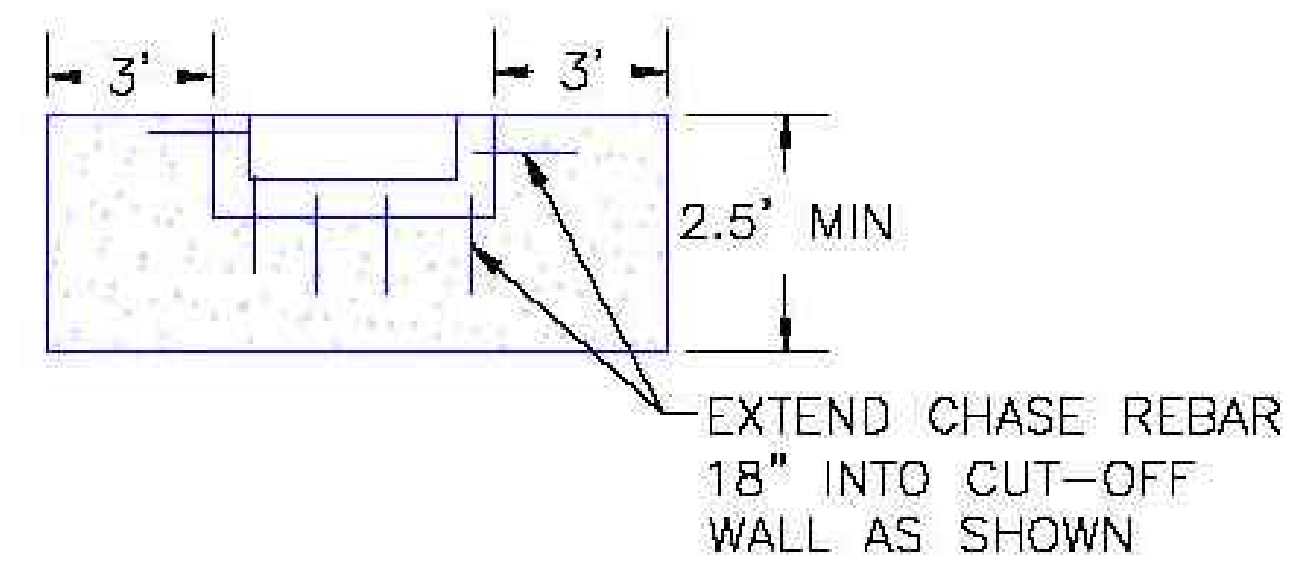
CROSS-SECTION VIEW

5.73' 0.85'

Add EPC Standard design details
 SD-2-20
 SD-2-23
 SD-2-26



SECTION B-B

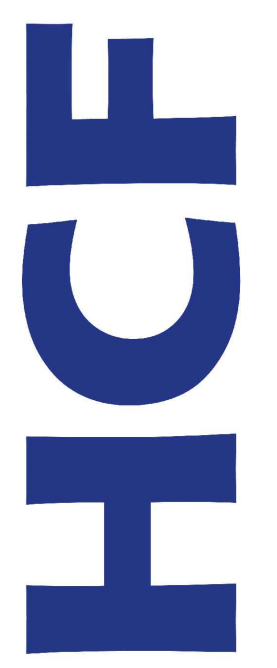


SECTION C-C

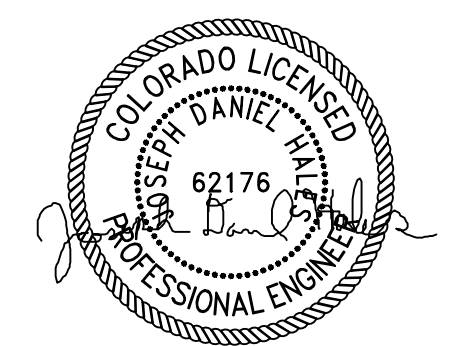
SCALE: NOT TO SCALE

<p>8/11/11</p> <p>DATE APPROVED:</p> <p>André P. Brackin</p> <p>DEPARTMENT OF TRANSPORTATION</p>	<p>Curb Opening with Drainage Chase Detail 2 of 2</p> <p>Standard Drawing</p>	
	<p>REVISION DATE:</p> <p>11/10/04</p>	<p>FILE NAME:</p> <p>SD_3-25A</p>

8160 SOUTH HIGHLAND DRIVE
SUITE 106, SANDY UTAH 84093
385-557-1500



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<p>PROJECT NAME:</p> <p>RCH VALLEY 875 VALLEY STREET</p>	<p>DETAILS</p>
<p>CLIENT NAME:</p> <p>HHI CORPORATION</p>	
<p>DRAWING TITLE:</p>	
<p>PLOT DATE:</p> <p>10-20-2023</p>	
<p>DRAWN BY / REVIEWED BY:</p> <p>RJW/JDH</p>	
<p>REVISIONS:</p>	

<p>PRINTED FOR:</p> <p>FOR USE</p>
<p>SHEET:</p> <p>DT-2</p>

STRUCTURAL NOTES:

A. GENERAL

- 1. THE STRUCTURAL NOTES ARE INTENDED TO COMPLEMENT THE PROJECT SPECIFICATIONS WHICH ARE PART OF THE CONSTRUCTION DOCUMENTS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS SHALL GOVERN OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS.
2. THESE DRAWINGS (AND, WHERE APPLICABLE, ACCOMPANYING WRITTEN SPECIFICATIONS) ARE THE ONLY CONTRACT DOCUMENTS PROVIDED BY ARW ENGINEERS FOR THE PROJECT REPRESENTED HEREIN. NOTHING IN THESE DRAWINGS, OR DIGITAL FILE RELATED TO THIS PROJECT SHALL BE TAKEN TO SUPERSEDE ANY INFORMATION SHOWN IN THESE DRAWINGS (INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, SIZES, ETC).

B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTIONS

- 1. THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.11 AND 1705.12 ARE IDENTIFIED ON THESE DOCUMENTS WITH A CIRCLE "I". ALL OTHER ITEMS REQUIRING SPECIAL INSPECTION ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE ON SHEET S013.
2. SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 THROUGH 1705 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE, JOB SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17. CONTRACTOR SHALL COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS.

C. BASIS OF DESIGN

- 1. GOVERNING BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2015
2. RISK CATEGORY: II
3. MEZZANINE LOADS
a. LIVE LOAD = 80 PSF UNREDUCED
b. DEAD LOAD = 28 PSF

D. FOUNDATION

- 1. GENERAL
a. DESIGN SOIL PRESSURE : 2000 PSF
b. SOILS REPORT BY: NORTH AMERICAN TESTING, INC. DATED: AUGUST 1, 2023
c. SOIL PREPARATION UNDER FOUNDATIONS AND SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH THE SOILS REPORT.
d. TOP OF FOOTING ELEVATIONS SHOWN ON THE FOOTING AND FOUNDATION PLAN ARE BASED ON PRELIMINARY GRADING INFORMATION AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION STEPS WHERE SHOWN ARE AT APPROXIMATE LOCATIONS. ACTUAL STEP LOCATIONS SHALL BE AT THE CONTRACTOR'S DISCRETION BASED UPON FIELD CONDITIONS. ALL EXTERIOR FOUNDATIONS SHALL BEAR A MINIMUM OF 30 INCHES BELOW LOWEST ADJACENT FINAL GRADE.

E. CONCRETE

- 1. ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH THE PROJECT SPECIFICATIONS AND THE REQUIREMENTS LISTED BELOW:
a. FOOTINGS, GRADE BEAMS, FOUNDATION WALLS
1. WHERE THE TOP OF THE ELEMENT IS EXPOSED OR IS LOCATED WITHIN 30" OF THE LOWEST ADJACENT GRADE (EXPOSURE CATEGORY F2):
a. 28 DAY COMPRESSIVE STRENGTH: 4500 PSI
b. MAXIMUM W/C RATIO: 0.45
c. MAXIMUM AGGREGATE SIZE: 1"

Table with columns: TOP & BOTTOM BARS, VERTICAL, HORIZONTAL. Includes notes on reinforcement spacing and placement.

F. ANCHOR BOLTS/EMBEDDED BOLTS

- 1. ALL ANCHOR BOLTS SHALL HAVE ASTM A-563 HEAVY HEX NUT AND ASTM A-308 WASHERS AT STANDARD OR OVERSIZED HOLES PER AISI SPECIFICATION TABLE J3.3. WHERE HOLE SIZES DO NOT COMPLY WITH THE LIMITATIONS FOR OVERSIZED HOLES THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO DETERMINE STEEL PLATE WASHER REQUIREMENTS. ANCHOR BOLTS SHALL COMPLY WITH THE FOLLOWING:
a. AT BRACED FRAMES & MOMENT RESISTING FRAMES - ASTM F1554 GRADE 105 HEADED BOLTS (ASTM A449 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER.)

G. ADHESIVE/MECHANICAL ANCHORS

- 1. WITHOUT WRITTEN APPROVAL OF THE ENGINEER, CONTRACTOR SHALL NOT SUBSTITUTE POST-INSTALLED ANCHORS WHERE CAST-IN-PLACE ANCHORS ARE SPECIFIED IN THE DRAWINGS.
2. WHERE STRUCTURAL DETAILS SPECIFY SPECIFIC BRANDS AND/OR TYPES OF ADHESIVES OR ANCHORS, SUBSTITUTIONS OF OTHER BRANDS AND/OR TYPES IS NOT ALLOWED, WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
3. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. SUBSTITUTION REQUESTS SHALL INCLUDE AN ICC ESR OR IAPMO REPORT AND SUPPORTING CALCULATIONS INDICATING COMPLIANCE WITH DESIGN INTENT.

H. REINFORCING STEEL

- 1. REINFORCING BAR STRENGTH REQUIREMENTS:
a. ALL REINFORCING BARS SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60 AND ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-1064 AND SHALL BE SUPPLIED IN FLAT SHEETS, ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED BY ACI 117, TO MAINTAIN EXACT REQUIRED POSITION.
2. HEADED SHEAR STUD ASSEMBLIES SHALL CONFORM TO ASTM A1044.
3. STEEL DISCONTINUOUS FIBER REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO ASTM A820 AND SHALL HAVE A LENGTH TO DIAMETER RATIO NOT SMALLER THAN 50 AND NOT GREATER THAN 100.

STRUCTURAL NOTES CONTINUED ON SHEET S002

LEGEND OF SYMBOLS AND ABBREVIATIONS

Legend of Symbols and Abbreviations table listing symbols for various components like ANCHOR BOLT, FOOTING MARK, CONCRETE BEAM, REINFORCING STEEL, etc.

Structural Sheet Index table listing sheet numbers (S001-S301) and their corresponding sheet names (STRUCTURAL NOTES, SCHEDULES, etc.).



EA SOLUTIONS
324 S. State Street, Suite 444
Salt Lake City, UT 84111
www.easolutions.us
385-549-8800

Revision table with columns: Rev., Description, Date. Includes revision 1 for REVIEW COMMENTS and revision 2 for PERMIT SET.

RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

STRUCTURAL NOTES
SHEET NUMBER
S001

WALL SCHEDULE					
MARK	STUD	SPACING	TOP TRACK	BOTTOM TRACK	COMMENTS
SSW-1	600S162-54	16"o.c.	600T125-54	600T125-54	BRIDGING @ 4'-0"o.c. WHERE SHEATHING IS NOT ATTACHED ON BOTH FLANGES OF STUD

NOTE:
 1. USE SSW1 UNLESS NOTED OTHERWISE.
 2. ATTACH BOTTOM TRACK TO SLAB PER 5/S230.
 3. ATTACH HEAD OF WALL PER DETAIL 4/S210 & 5/S210.
 4. SEE ARCH FOR LOCATIONS OF ARCHITECTURAL STEEL STUD FURR OUTS.

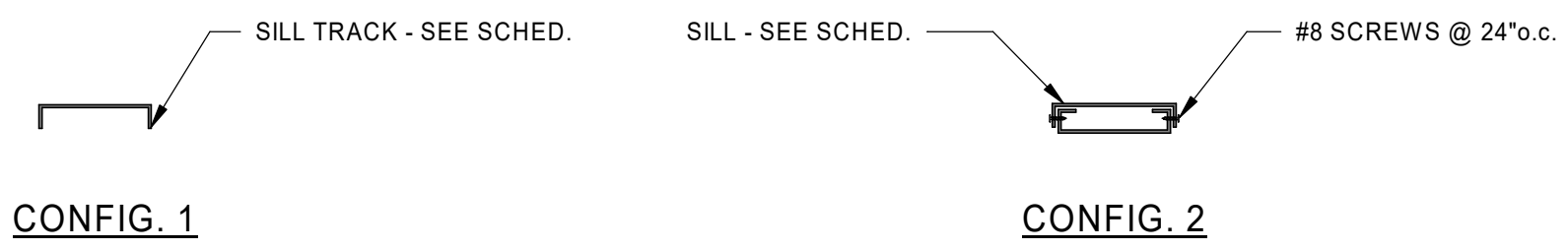
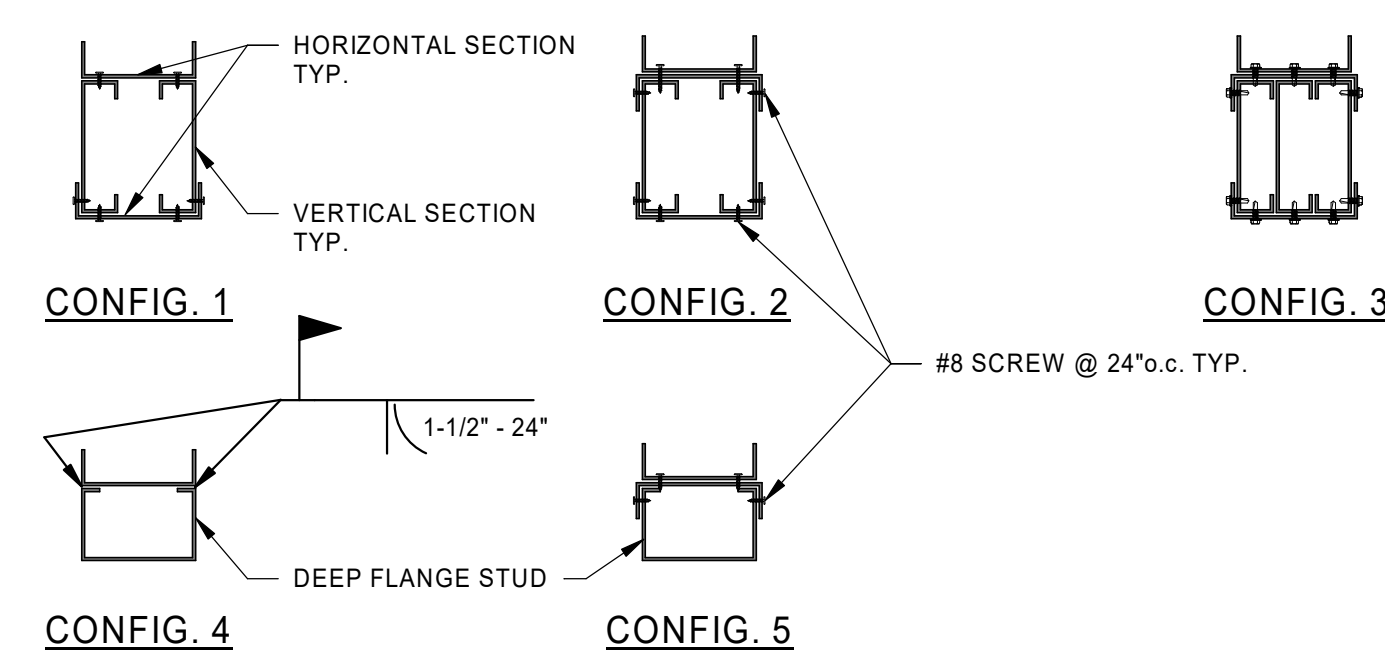
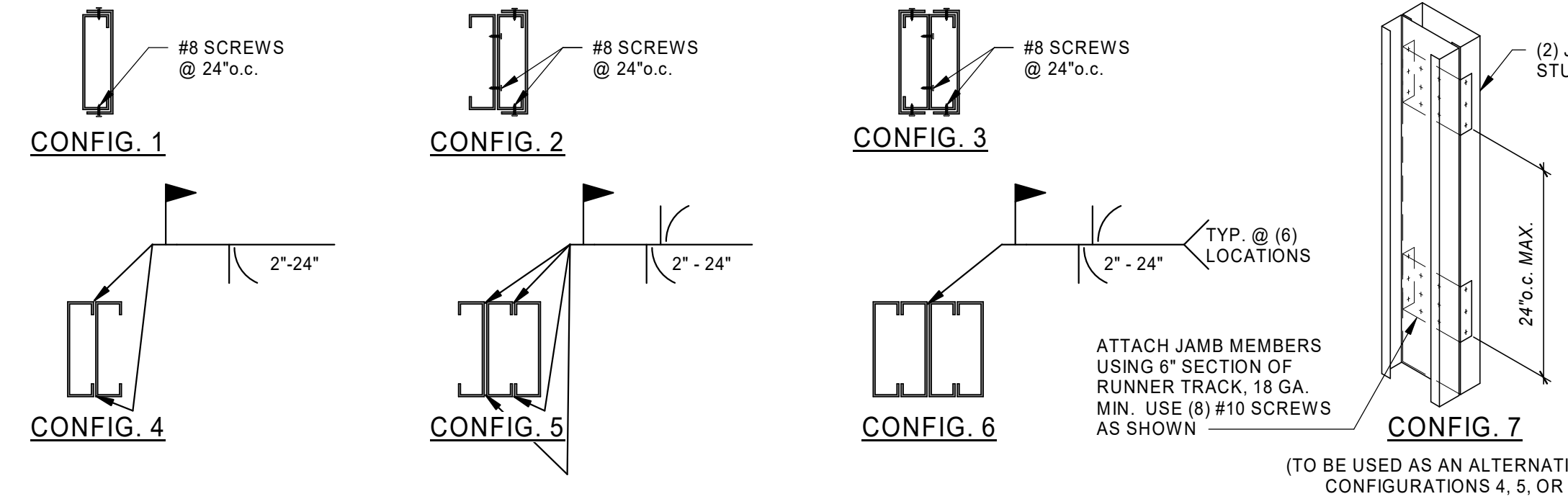
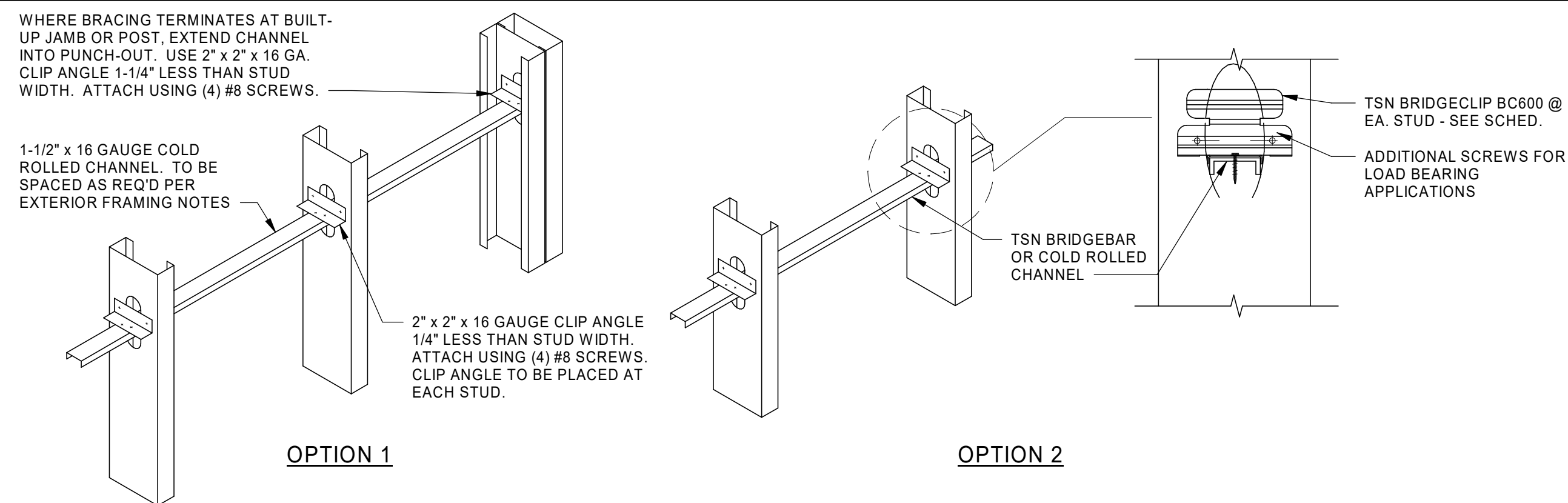
JAMB STUD SCHEDULE							
MARK	MAX. OPENING	# OF JAMB STUDS	CONFIGURATION	CONCRETE CONNECTION		FLOOR / ROOF CONNECTION CONNECTOR	COMMENTS
				CONNECTOR	ANCHOR		
SSJ-1	6'-0"	(2)	2	4/S230	(1) 3/8" x 3 1/2"	4/S210 & 5/210	--
SSJ-2	12'-0"	(3)	5	4/S230	(1) 3/8" x 3 1/2"	4/S210 & 5/210	--

NOTE: STITCH STUDS W/ 2"WELD @ 24"o.c. AS FOLLOWS:
 43 MIL (18 GA.) 1/16" FILLET OR FLARE GROOVE
 54 MIL (16 GA.) 1/16" FILLET OR FLARE GROOVE
 68 MIL (14 GA.) 1/16" FILLET OR FLARE GROOVE
 97 MIL (12 GA.) 3/32" FILLET OR FLARE GROOVE

HEADER SCHEDULE						
MARK	MAX. OPENING	VERT. SECTIONS	HORIZ. SECTIONS	CONFIGURATION	HEADER CONNECTION	COMMENTS
SSH-1	6'-0"	600S162-54	600T150-54	2	6/S230	
SSH-2	12'-0"	600S162-54	600T200-54	3	6/S230	

SILL SCHEDULE					
MARK	MAX. OPENING	SILL COMPONENTS	CONFIGURATION	SILL CONNECTION ANGLE	COMMENTS
SSS-1	6'-0"	600T125-54	1	3/S230	
SSS-2	12'-0"	600T200-54	2	3/S230	

BRIDGING OPTIONS



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Rev.	Description	Date	Appr.
0	PERMIT SET	05/29/2023	

Designed by: NGW	Submitted: 05 FEB 2024	REV: 0
Drawn by: JCP	File:	
Reviewed by: DOC	Scale: 3/4" = 1'-0"	
Submitted by: Approver	Project Number: 23049	

RCH Valley
 Real Color Holdings, LLC
 875 Valley St
 Colorado Springs, CO
 80915

SCHEDULES

SHEET NUMBER
S011

D

C

B

A

D

C

B

A

STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE

ESTABLISHED PER 2021 IBC SECTION 1705.2.1

Main inspection schedule table with columns for inspection tasks, frequency (Continuous/Periodic), and notes. Includes sections for inspection tasks prior to welding, during welding, after welding, and prior to bolting, during bolting, and after bolting.



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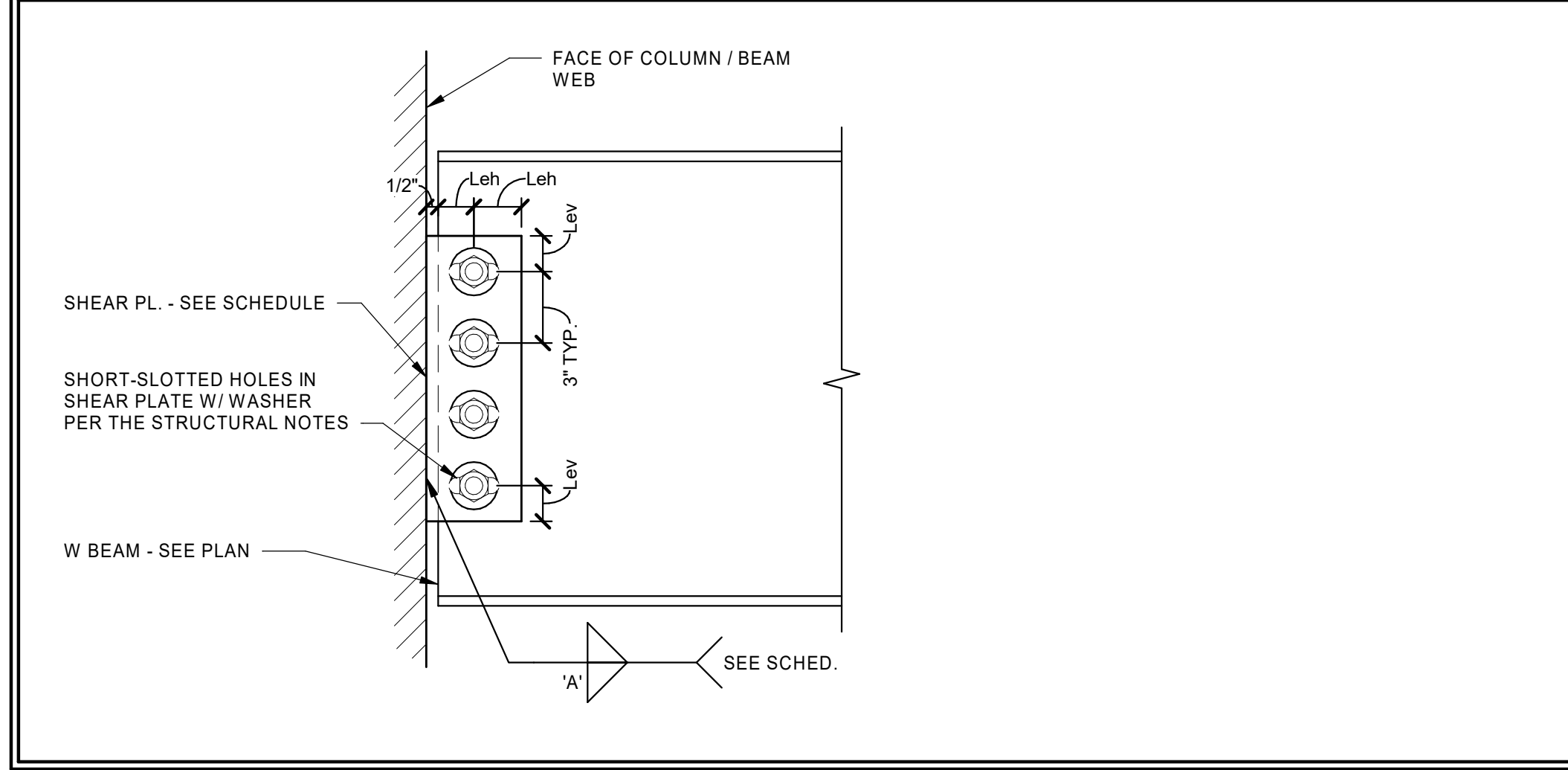
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Table with 4 columns: Submitted, 05 FEB 2024; File: 0; Scale: 3/4" = 1'-0"; Project Number: 23049.

RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
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SCHEDULES

BEAM CONNECTION SCHEDULE

BEAM DEPTH	SHEAR PLATE INFORMATION			BOLTS W/ STANDARD WASHERS OVER SLOTS		WELD 'A'	COMMENTS
	PL. DIMENSIONS W/ SHORT-SLOTTED HOLES	Lev	Leh	No.	SIZE		
W8, W10	PL. 1/4" x REQ'D	1 1/2"	2"	2	3/4" Ø	3/16"	
W12, W14	PL. 5/16" x REQ'D	1 1/2"	2"	3	3/4" Ø	1/4"	
W16	PL. 5/16" x REQ'D	1 1/2"	2"	4	3/4" Ø	1/4"	



SPECIAL INSPECTION SCHEDULE

ESTABLISHED PER 2015 IBC SECTION 110 AND CHAPTER 17

ITEM	CONTINUOUS ¹	PERIODIC ²	REFERENCE	COMMENTS
PRE-FAB CONSTRUCTION (IBC 1704.2)			REFERENCE NOTES P1 & P2	P1. SPECIAL INSPECTION IS NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. PROVIDED THE FABRICATOR COMPLIES WITH IBC. P2. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. SPECIAL INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE. (SEE NOTE 2).
OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (IBC 1705.2.3)				
INSTALLATION OF OPEN-WEB JOISTS AND JOIST GIRDERS				
END CONNECTIONS - WELDED OR BOLTED		●	SJI SPECIFICATIONS LISTED IN SECTION 2207.1	
BRIDGING - HORIZONTAL OR DIAGONAL				
STANDARD BRIDGING		●		
BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1		●	SJI SPECIFICATIONS LISTED IN SECTION 2207.1	
CONCRETE CONSTRUCTION (IBC 1705.3)			SEE IBC TABLE 1705.3 - REF. NOTE C1	
REINFORCING STEEL PLACEMENT		●		
WELDING OF REINFORCING STEEL	●	●	REFERENCE NOTE C2	
EMBEDDED BOLTS & PLATES	●			
VERIFYING REQUIRED DESIGN MIX		●		
CONCRETE PLACEMENT / SAMPLING	●		REFERENCE NOTE C3	
CURING TEMPERATURE / TECHNIQUES		●		
PRESTRESSED CONCRETE				
APPLICATION OF PRESTRESSING FORCES	●			
GROUTING BONDED TENDONS	●		IN SEISMIC-FORCE-RESISTING SYSTEM	
ERECTION OF PRECAST MEMBERS		●		
VERIFICATION OF IN-SITU STRENGTH		●	REFERENCE NOTE C4	
EPOXY / EXPANSION ANCHOR PLACEMENT	●	●	REFERENCE NOTE C5	
COLD FORMED FRAMING (IBC 1705.11.2 & 1705.12.3)				CF1. SPECIAL INSPECTION IS NOT REQUIRED FOR COLD-FORMED STEEL LIGHT-FRAME SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS WHERE SHEATHING IS WOOD STRUCTURAL PANEL OR STEEL SHEETS ON ONLY ONE SIDE OF THE SHEAR WALL, SHEAR PANEL OR DIAPHRAGM ASSEMBLY AND THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4" c.c.
LIGHT GAUGE METAL FRAMING WELDING		●		
SHEAR WALL & DIAPHRAGM ATTACHMENTS		●		
DRAG STRUT & BRACE INSTALLATION		●		
HOLD-DOWN INSTALLATION		●		
SOILS (IBC 1705.6)			REFERENCE NOTE F1	
VERIFY ADEQUATE MATERIALS BELOW FOOTINGS		●	REFERENCE NOTE F1	F1. SPECIAL INSPECTION OF SOILS SHALL REFERENCE THE APPROVED SOILS REPORT TO DETERMINE COMPLIANCE. WHERE SOILS REPORT IS NOT PROVIDED SPECIAL INSPECTIONS ARE REQUIRED TO VERIFY THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL IS NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D 1557.
EXCAVATIONS EXTEND TO PROPER DEPTH AND REACH PROPER MATERIAL		●	REFERENCE NOTE F2	F2.
CLASSIFY & TEST CONTROLLED FILL MATERIALS		●	REFERENCE NOTE F2	
PERFORM MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	●		REFERENCE NOTE F1	
PROPERLY PREPARED SITE AND SUB-GRADE PRIOR TO FILL.		●	REFERENCE NOTE F1	

GENERAL SPECIAL INSPECTION NOTES :

- THE ITEMS MARKED WITH A ● IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT, AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.
- ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT.
- CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. (IBC SECTION 202)



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Rev.	Description	Date	Appr.
1	REVIEW COMMENTS	08/23/2023	
0	PERMIT SET	05/29/2023	

Designed by:	NGW	Submitted:	05 FEB 2024
Drawn by:	JCP	File:	
Reviewed by:	DOC	Scale:	As indicated
Submitted by:		Project Number:	23049
Approver:			

RCH Valley
Real Color Holdings, LLC
 875 Valley St
 Colorado Springs, CO
 80915

SCHEDULES

SHEET NUMBER
S013

FOOTING & FOUNDATION NOTES :

- SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
- ALL FOOTINGS SHALL BE PLACED ON SOIL WHICH HAS BEEN PREPARED FOR THE BEARING PRESSURE SHOWN IN THE STRUCTURAL NOTES. INSTALL 12" OF MECHANICALLY COMPACTED STRUCTURAL FILL - SEE STRUCTURAL NOTES.
- VERIFY ALL DIMENSIONS WITH DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND.
- SOLID GROUT ALL MASONRY COURSES BELOW FINISHED FLOOR OR EXTERIOR GRADE (WHICHEVER IS HIGHER).
- SEE SHEET S010 FOR FOOTING SCHEDULE.
- PROVIDE DOWELS IN FOOTINGS / FOUNDATIONS TO MATCH VERTICAL WALL REINFORCING U.N.O.
- SEE SHEET S201 FOR TYPICAL FOOTING AND FOUNDATION DETAILS.
- ALL EXTERIOR WALL FOOTINGS TO BEAR A MINIMUM DIMENSION BELOW EXTERIOR GRADE AS NOTED IN GENERAL STRUCTURAL NOTES.
- FOUNDATION WALLS ARE DESIGNED AND DETAILED FOR THE COMPLETED CONDITION. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. BACKFILLED WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION AND BACKFILLING TO PRODUCE PLUMB AND TRUE FINISHED WALLS.
- ALL ANCHORS, HOLD-DOWNS, ANCHOR BOLTS, DOWELS, EMBEDDED ITEMS, ETC. SHALL BE HELD IN PLACE PRIOR TO AND DURING CONCRETE AND/OR GROUT PLACEMENT.
- COORDINATE ALL FOOTING DEPTHS (INTERIOR AND EXTERIOR) WITH DRAINS, CONDUITS, ETC. THAT MAY INTERFERE WITH FOOTINGS.
- DEMO ALL EXISTING WALLS AND PURLINS. DO NOT REMOVE X-BRACING BETWEEN GRIDS 2 AND 3. TYP ON GRIDS 2 AND E.

CONCRETE SLAB NOTES :

- SLAB ON GRADE SHALL BE 4" THICK CONCRETE U.N.O. SLAB SHALL BE UNDERLAIN BY 4" OF FREE DRAINING SOIL.
- SEE DETAIL 1/S201 FOR BASE PLATE SCHEDULE.



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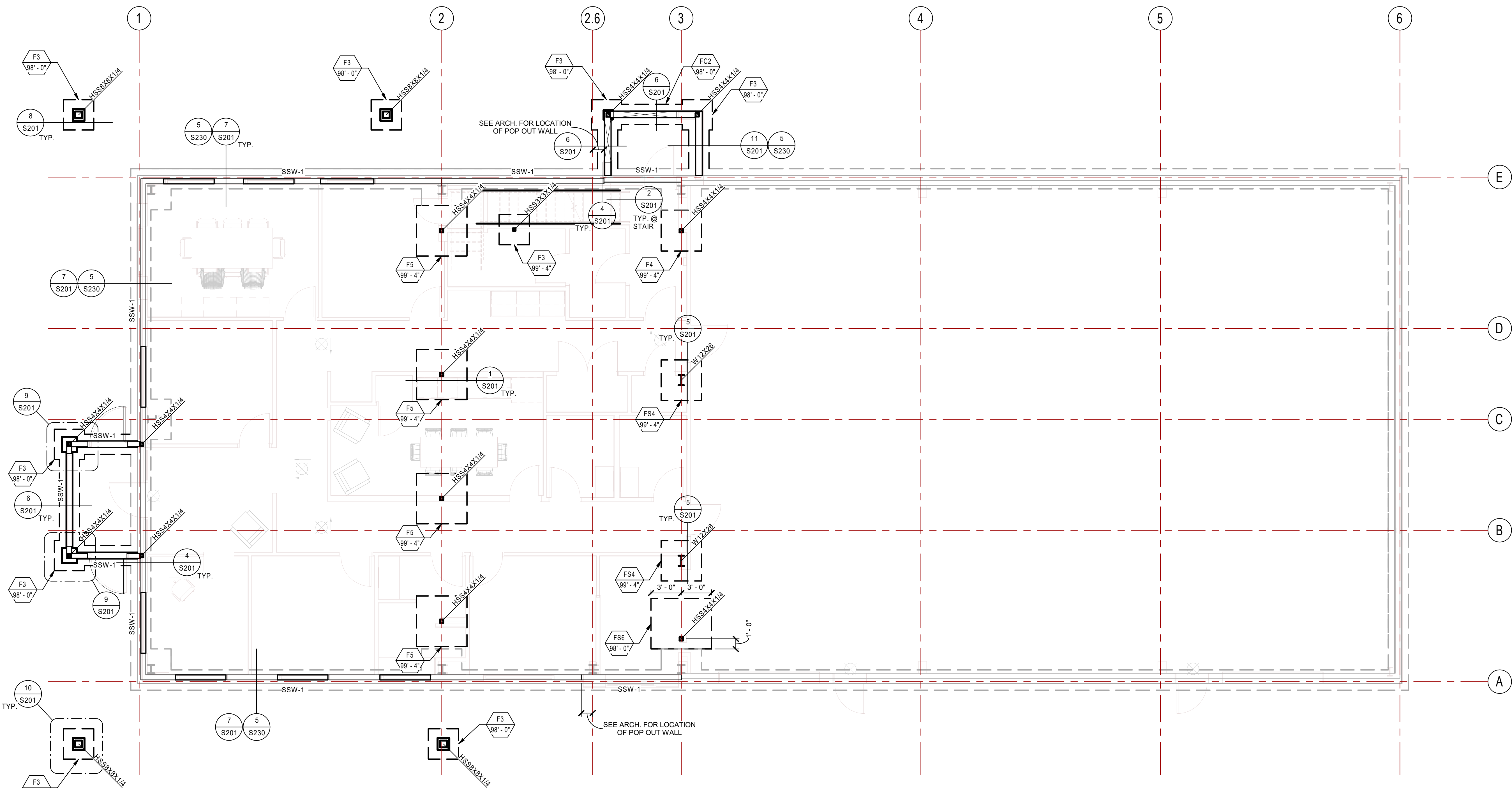
Rev.	Description	Date	Appr.
0	PERMIT SET	05/29/2023	

Designed by:	Submitted:	REV:
NGW	05 FEB 2024	0
Drawn by:	File:	
JCP		
Reviewed by:	Scale:	
DOC	As indicated	
Submitted by:	Project Number:	
Approver	23049	

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Colorado Springs, CO
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FOOTING AND FOUNDATION PLAN

SHEET NUMBER
S101



FOOTING AND FOUNDATION PLAN
 SCALE : 3/16" = 1'-0"
 A
 S101

FLOOR FRAMING NOTES :

1. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES
2. SEE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATIONS
3. FOR FLOOR SHEATHING AND ATTACHMENT REQUIREMENTS SEE STRUCTURAL NOTES.
4. DEMO ALL EXISTING WALKWAY CANOPY FRAMING.
5. STEEL STUD HEADER BELOW STEEL HSS. SEE SCHEDULE.



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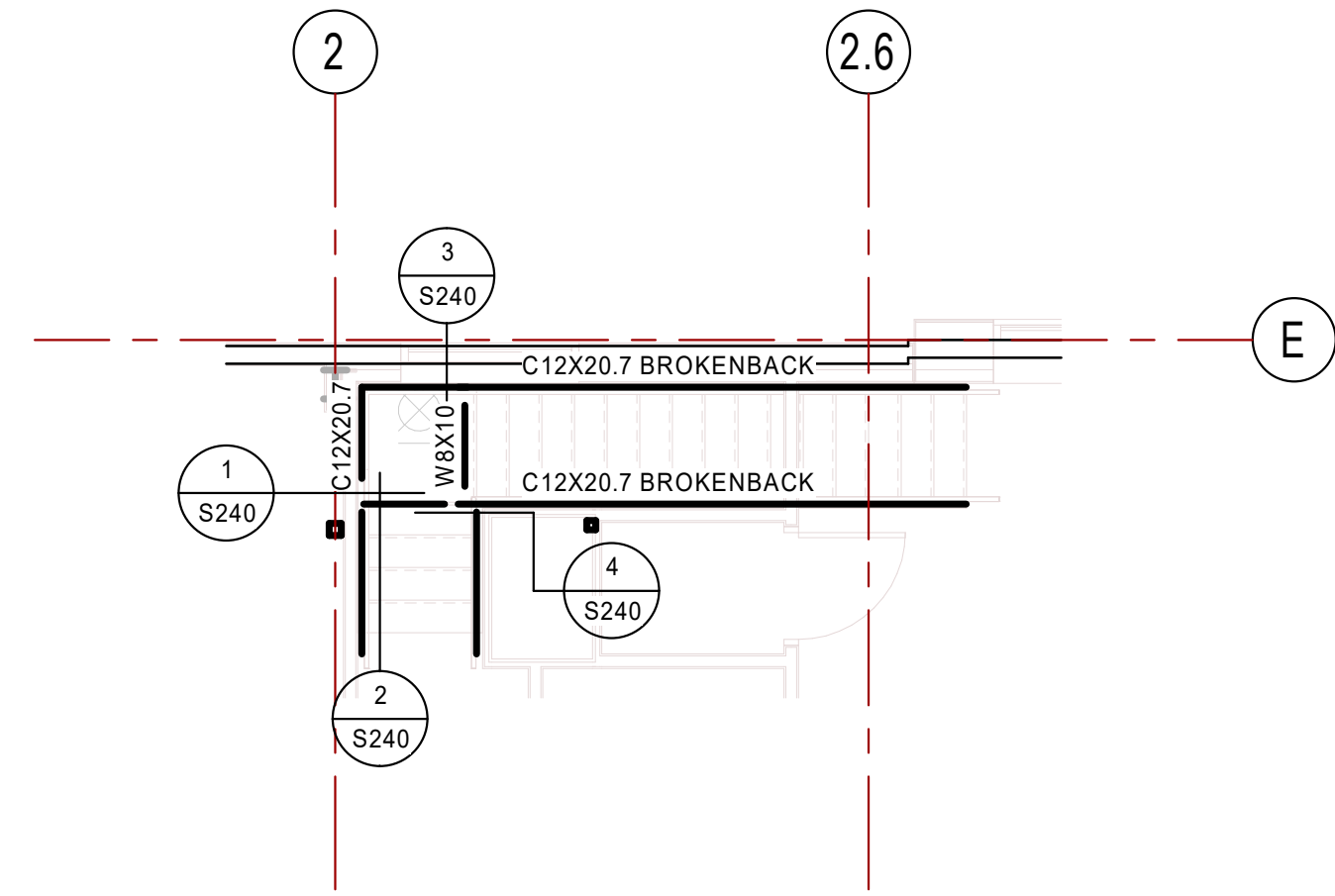
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3	REVIEW COMMENTS	02/05/2024	
0	PERMIT SET	05/29/2023	

Designed by:	Submitted:	REV:
NGW	05 FEB 2024	3
Drawn by:	File:	
JCP		
Reviewed by:	Scale:	
DOC	As indicated	
Submitted by:	Project Number:	
Approver:	23049	

RCH Valley
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Colorado Springs, CO
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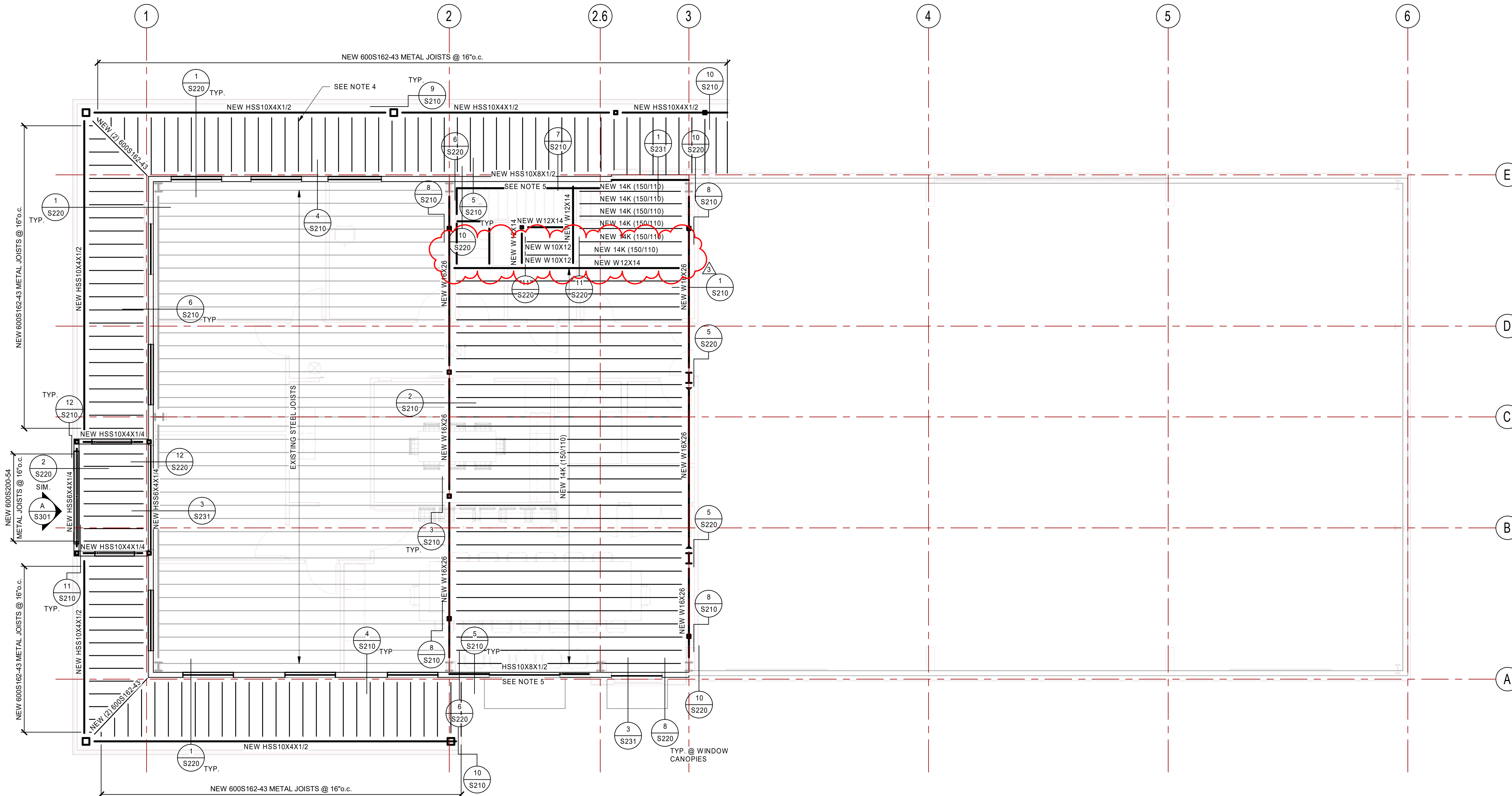
FLOOR FRAMING PLAN

SHEET NUMBER
S102



STAIR & STAIR LANDING FRAMING PLAN

SCALE : 3/16" = 1'-0"



MEZZANINE FRAMING PLAN

SCALE : 3/16" = 1'-0"

ROOF FRAMING NOTES :

1. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
2. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS
3. STEEL STUD HEADER BELOW STEEL HSS. SEE SCHEDULE - REMOVE EXISTING METAL BUILDING BEAM & REPLACE WITH NEW HSS PRIOR TO REMOVING REMAINING WIND GIRTS.



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Rev.	Date	Description
0	05/29/2023	PERMIT SET

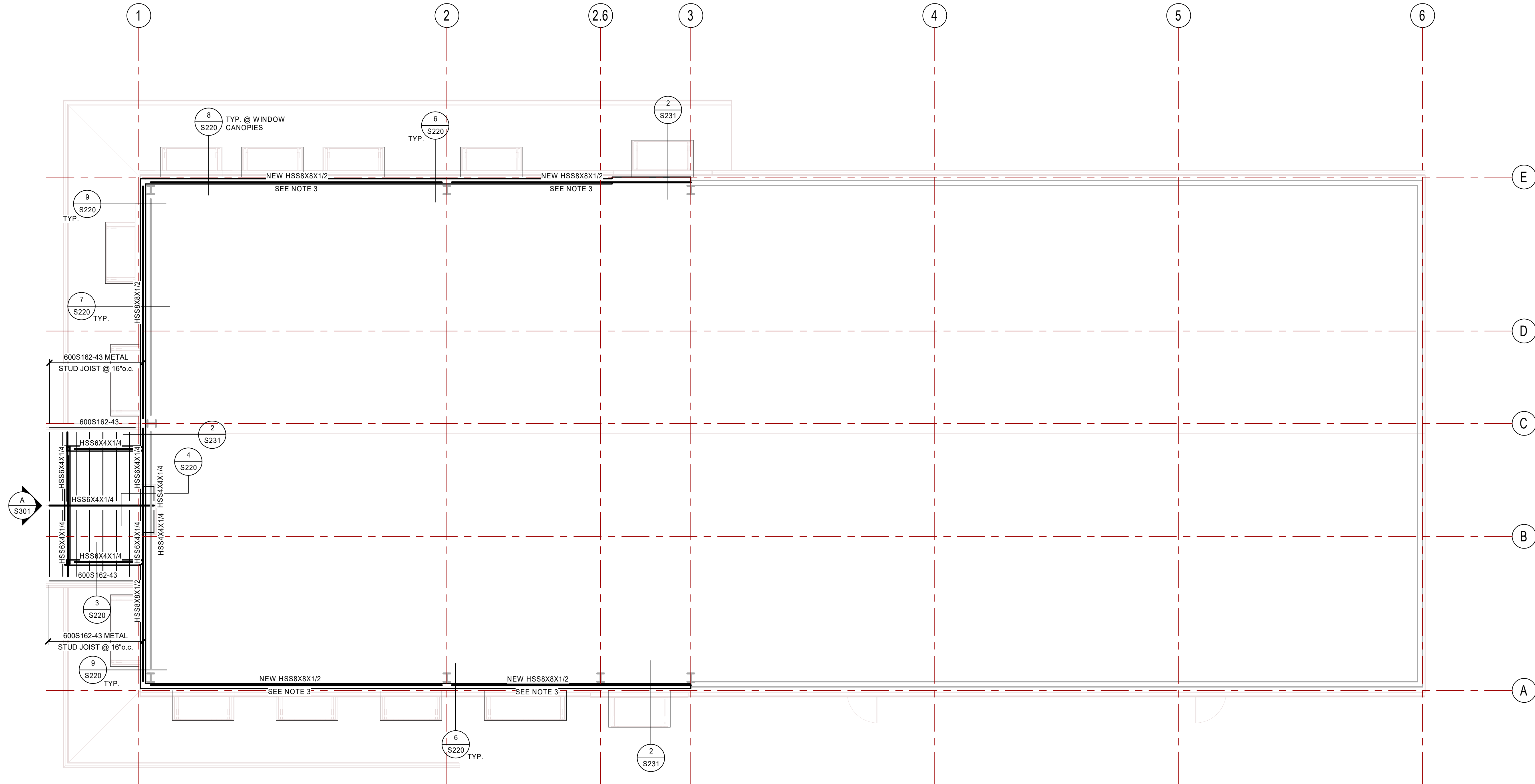
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NGW	05 FEB 2024	0
Drawn by:	File:	
JCP		
Reviewed by:	Scale:	
DOC	As indicated	
Submitted by:	Project Number:	
Approver	23049	

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ROOF FRAMING PLAN

SHEET NUMBER

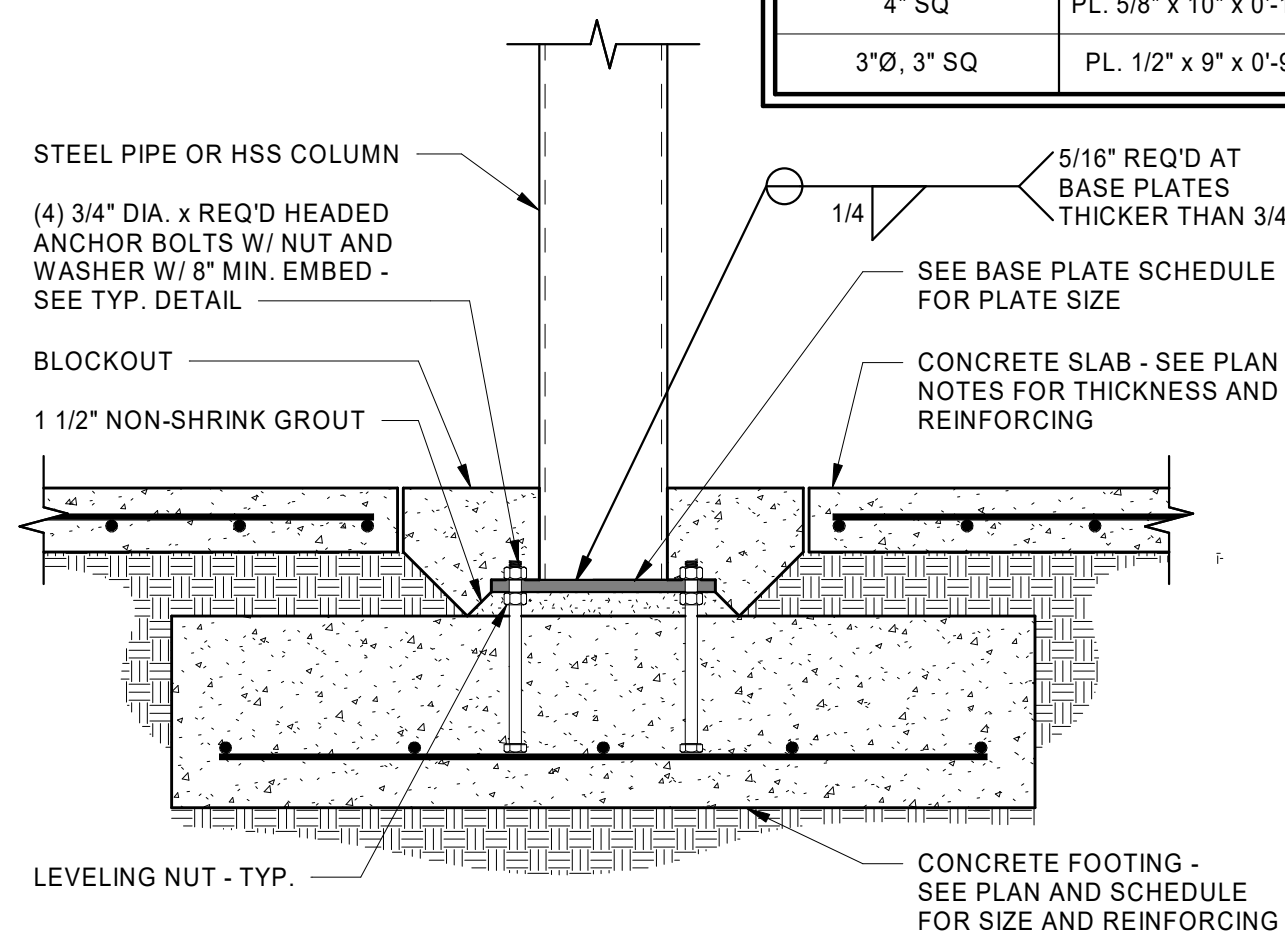
S103



ROOF FRAMING PLAN
 SCALE : 3/16" = 1'-0"

A
S103

BASE PLATE SCHEDULE	
COLUMN SIZE	BASE PLATE SIZE
8" SQ, 10" Ø	PL. 3/4" x 14" x 1'-2"
7" SQ	PL. 3/4" x 13" x 1'-1"
6" SQ, 8" Ø	PL. 3/4" x 12" x 1'-0"
5" SQ	PL. 3/4" x 12" x 1'-0"
4" SQ	PL. 5/8" x 10" x 0'-10"
3" Ø, 3" SQ	PL. 1/2" x 9" x 0'-9"

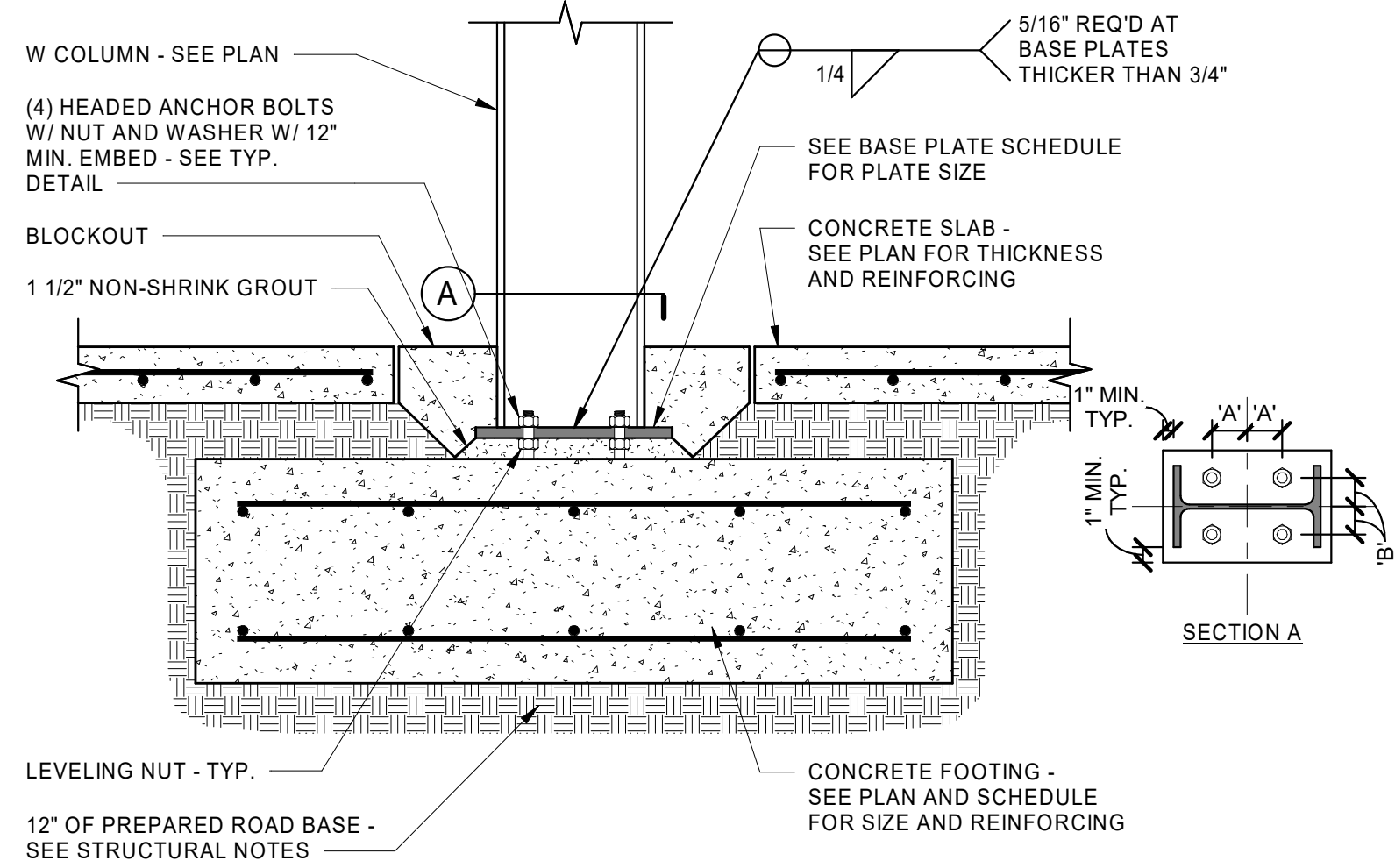


COLUMN TO SPOT FOOTING

SCALE: NONE

1
S201

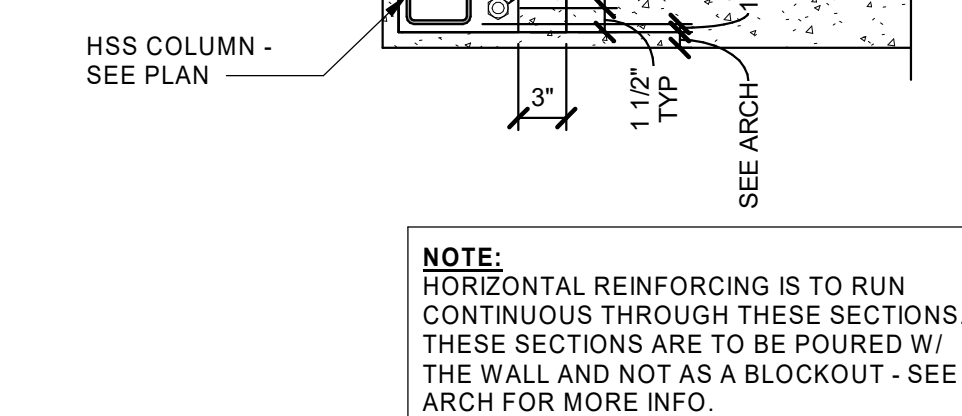
BASE PLATE SCHEDULE				
COLUMN SIZE	BASE PLATE SIZE	DIMENSION 'A'	DIMENSION 'B'	A.B. SIZE
W 12x26	1/2"x8"x1'-2"	3"	2"	3/4"



COLUMN TO SPOT FOOTING

SCALE: NONE

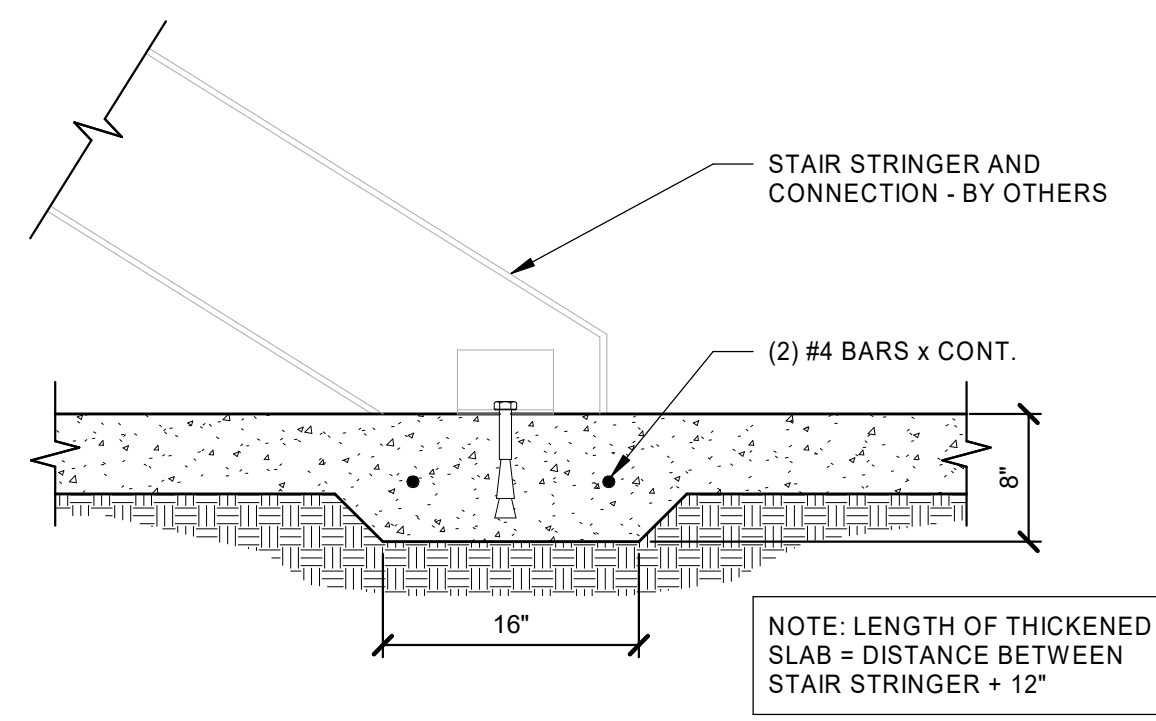
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S201



DETAIL

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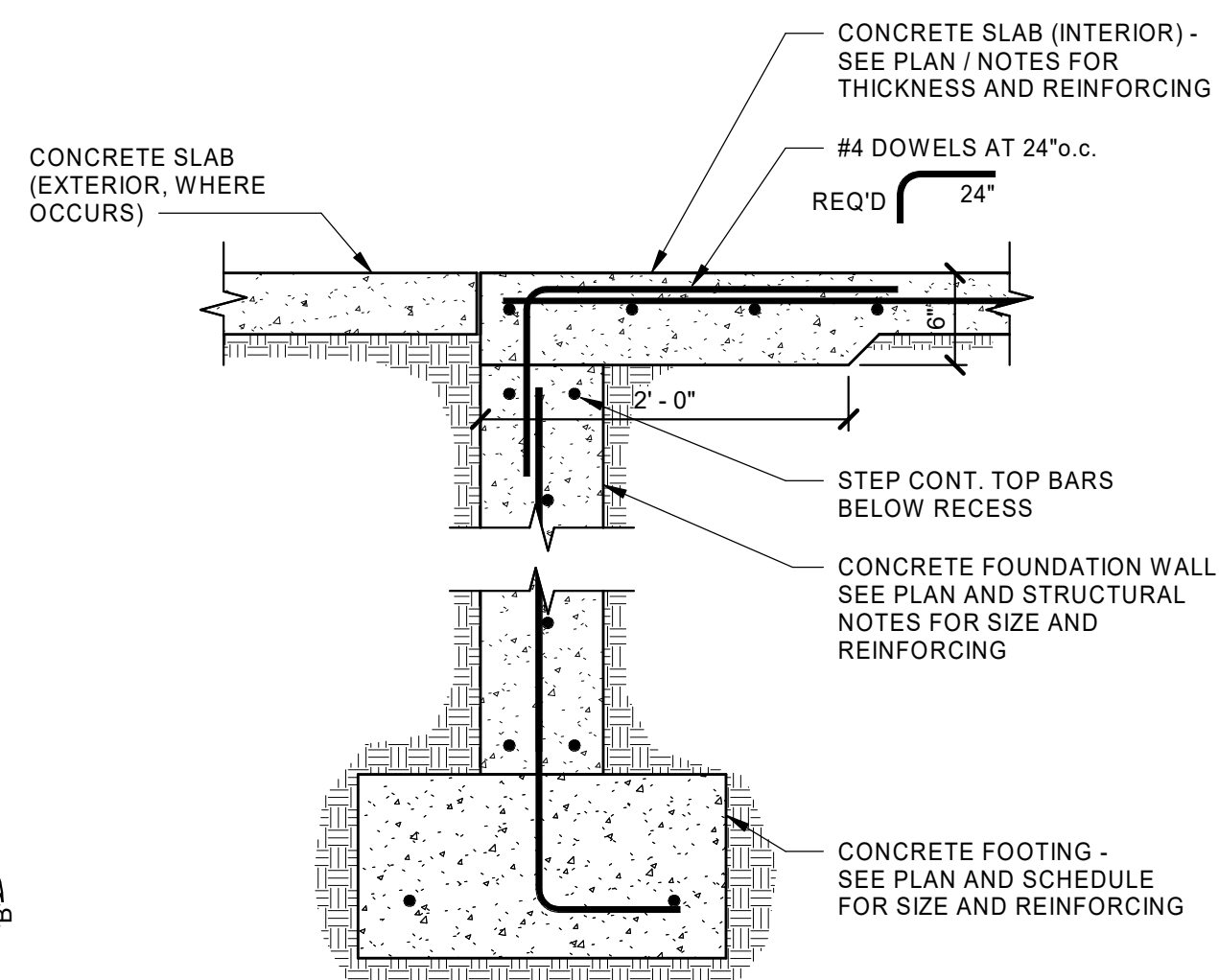
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S201



THICKENED SLAB @ STAIR

SCALE: NONE

2
S201

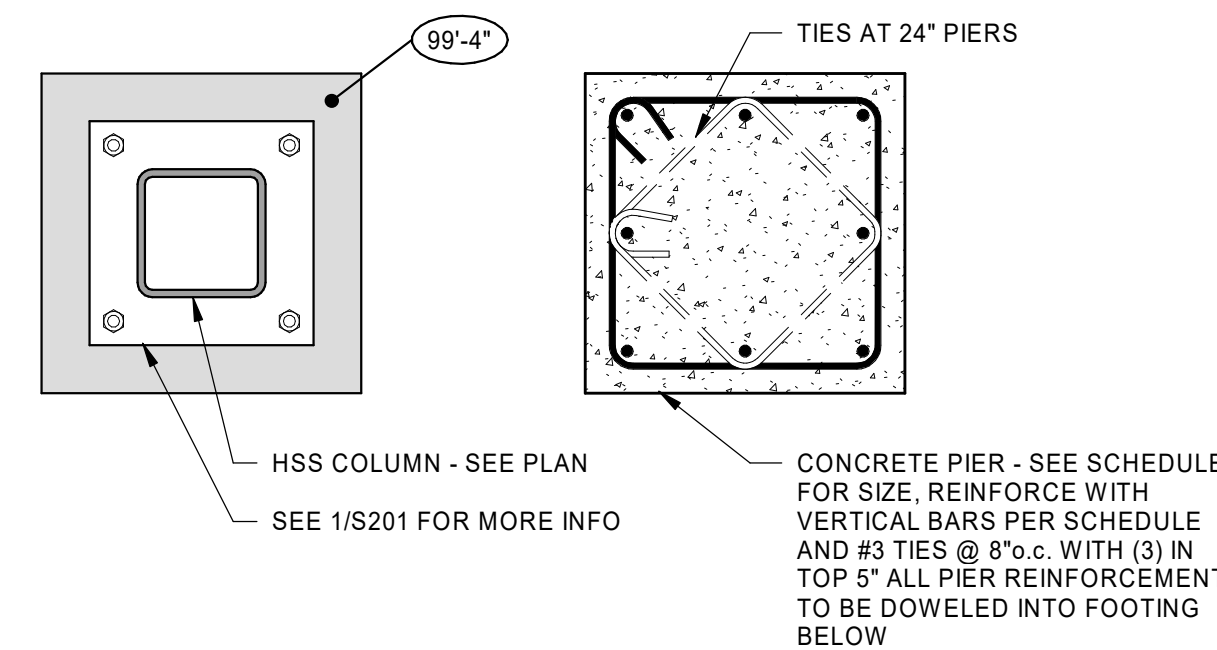


CONCRETE FOUNDATION @ OPENING

SCALE: NONE

6
S201

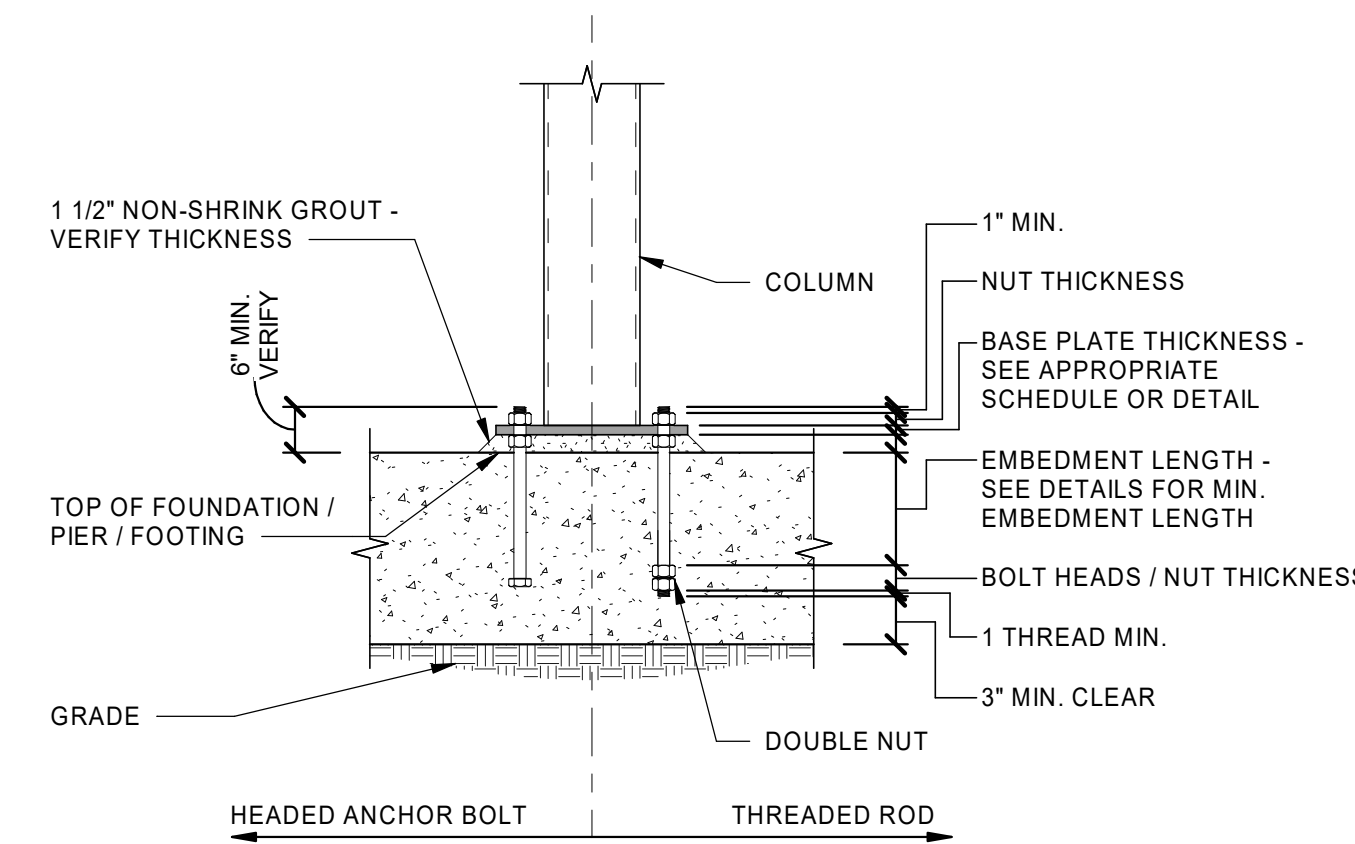
COLUMN SIZE	PIER SIZE	VERTICAL REINF.
4x4	16"x16"	(4) #6
6x6	18"x18"	(4) #6
8x8	20"x20"	(4) #6
10x10	24"x24"	(8) #5



DETAIL

SCALE: NONE

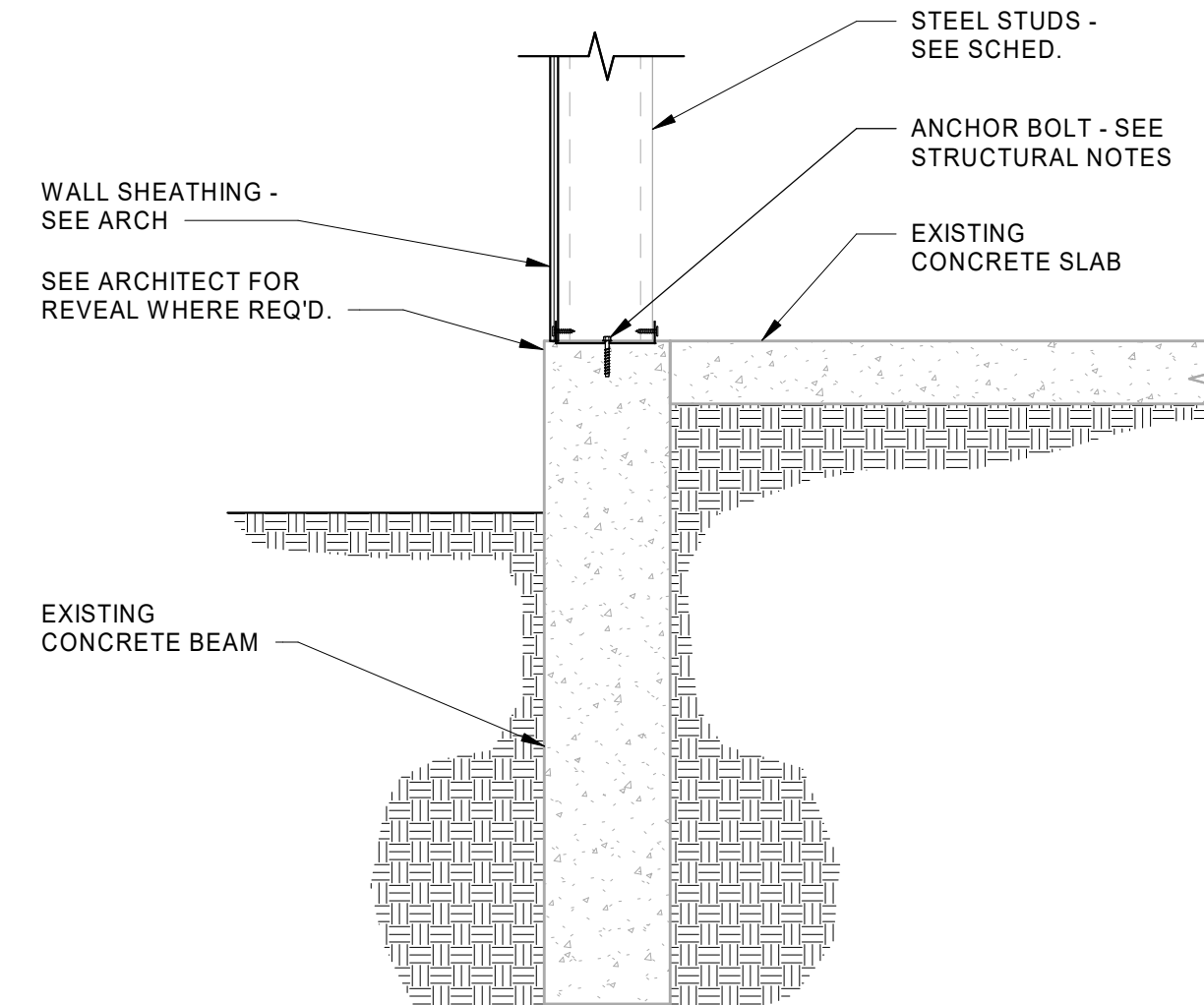
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S201



TYPICAL ANCHOR BOLT EMBEDMENT DETAIL

SCALE: NONE

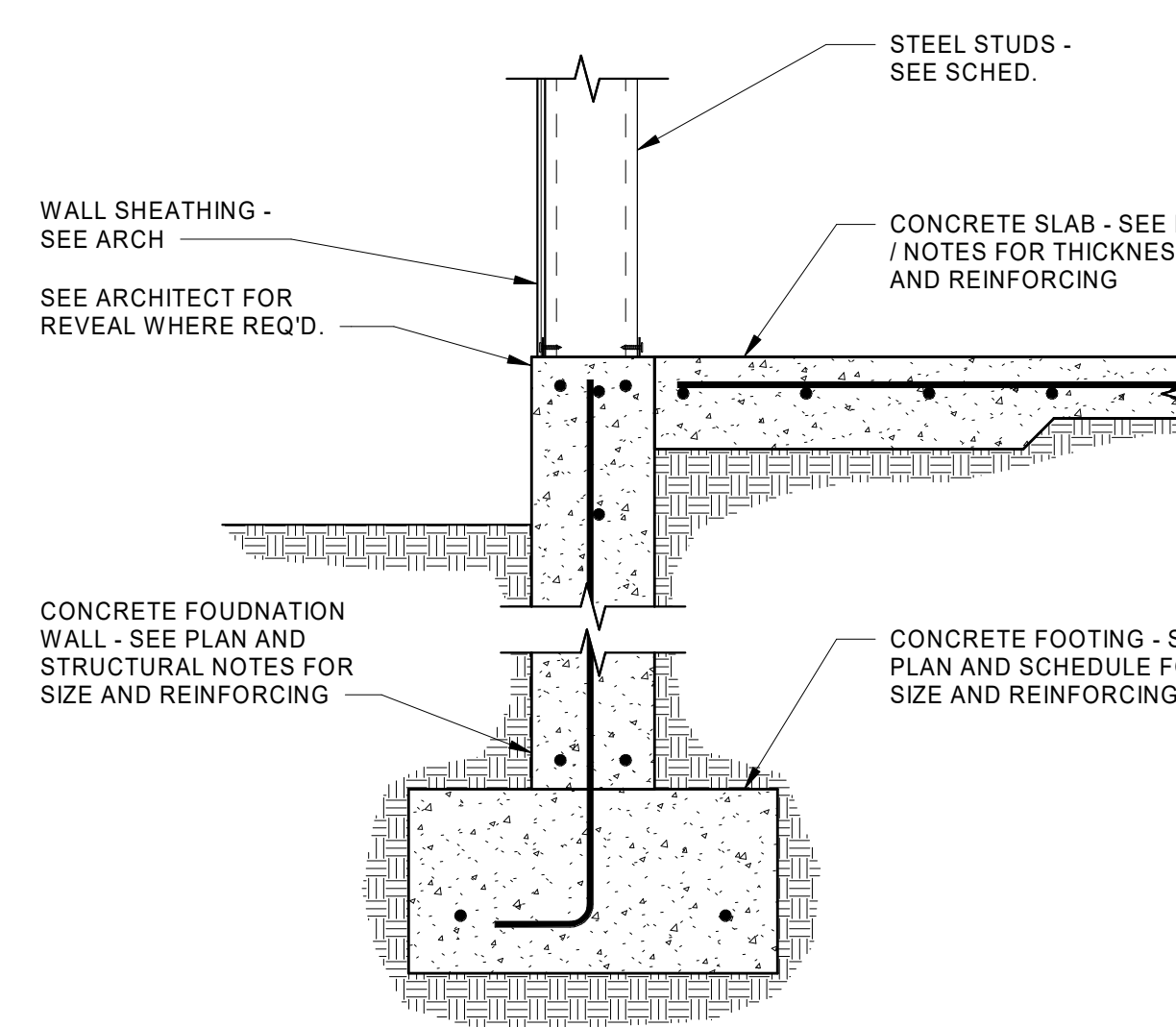
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S201



SECTION @ EXTERIOR WALL

SCALE: NONE

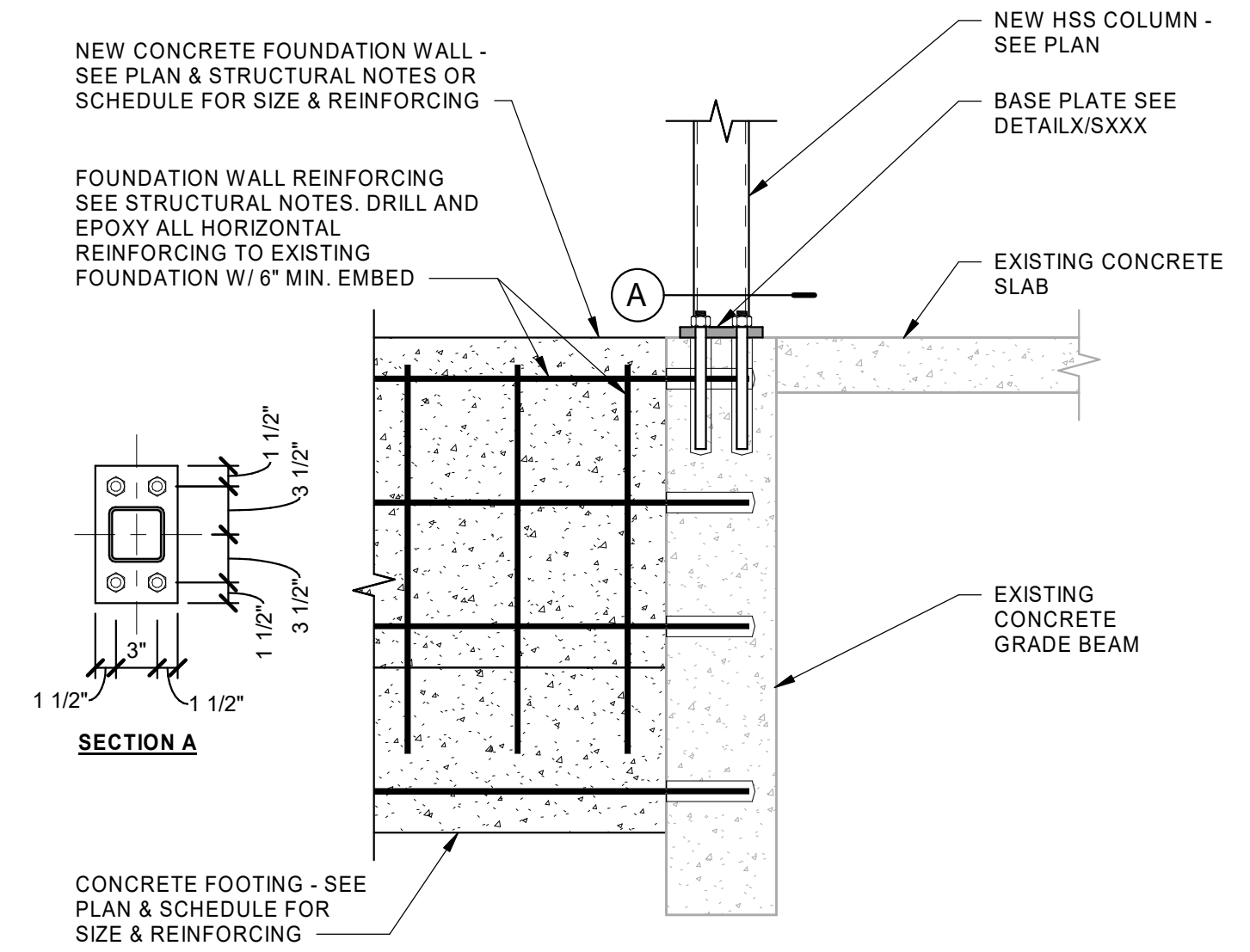
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S201



DETAIL

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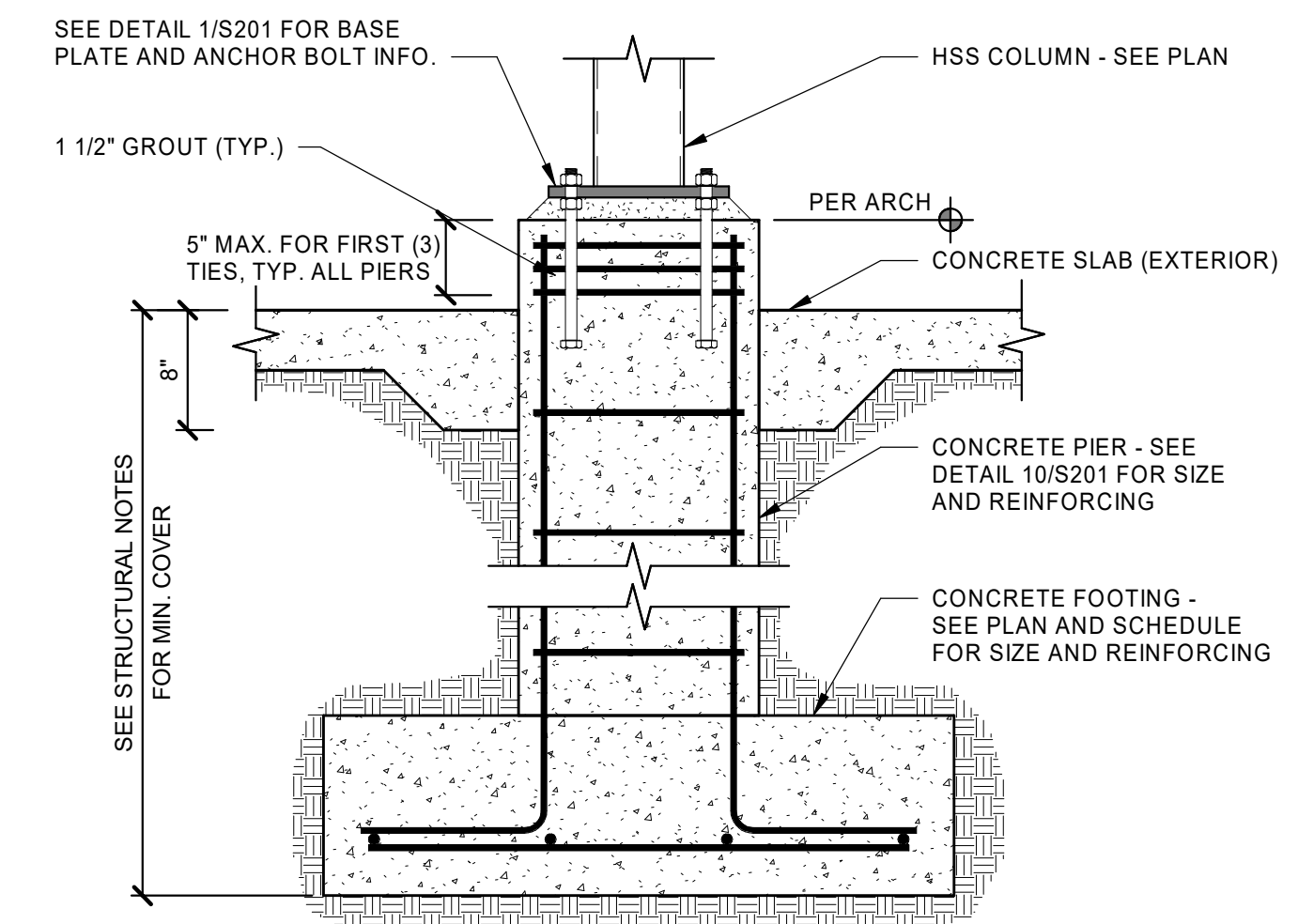
11
S201



DETAIL

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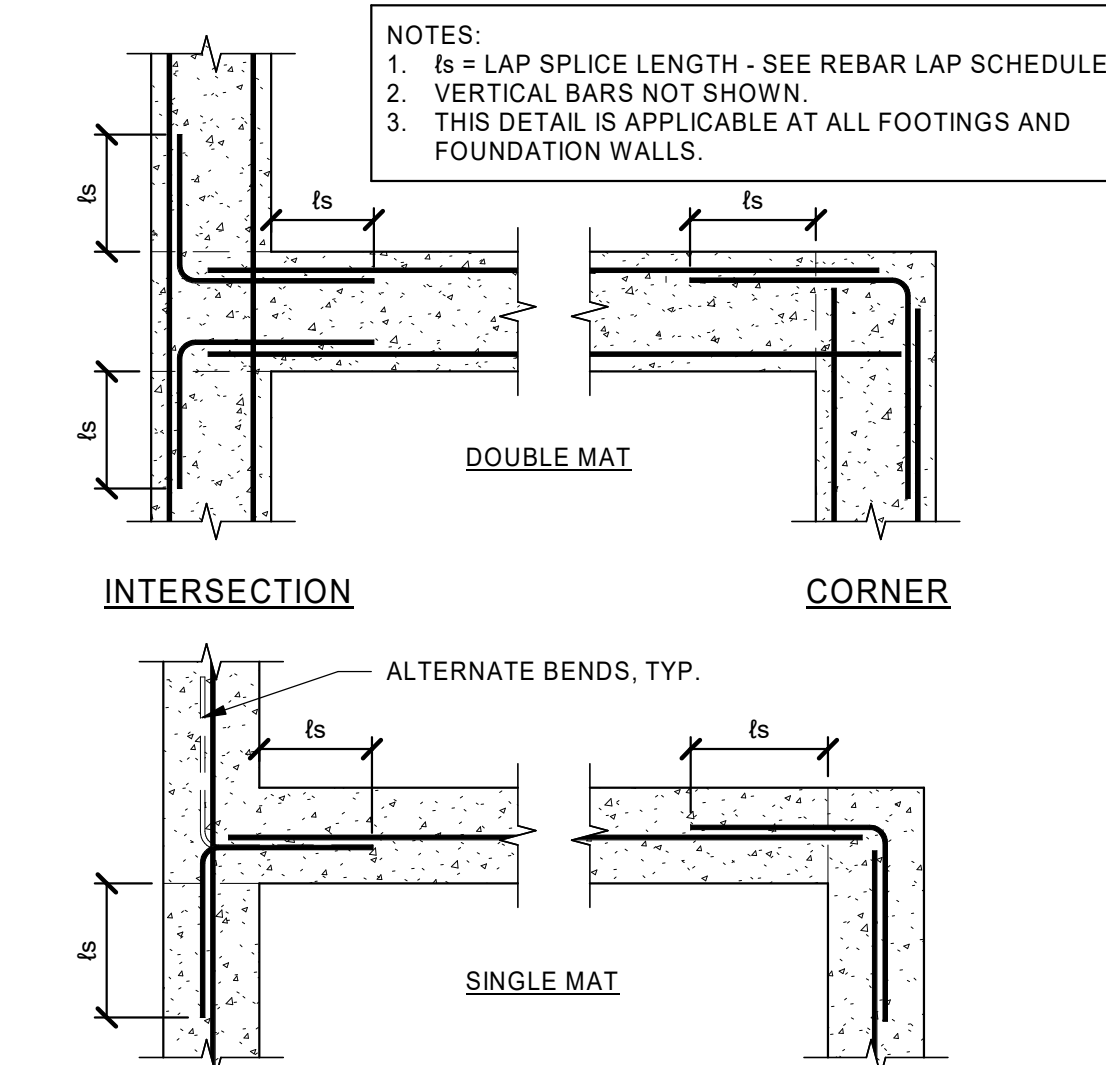
4
S201



CONCRETE PIER

SCALE: NONE

8
S201



TYP. REINF. @ INTERSECTIONS IN CONC. DETAIL

SCALE: NONE

12
S201



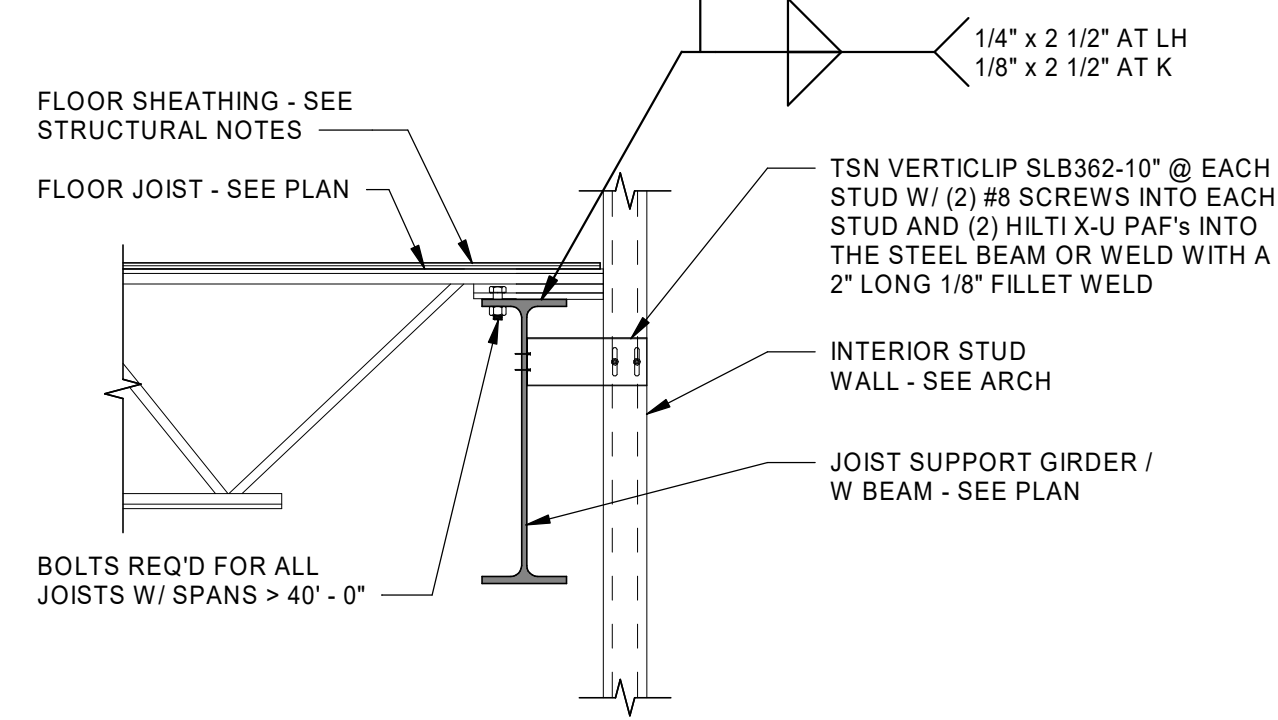
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REV.	DATE	DESCRIPTION
0	05/29/2023	PERMIT SET

Designed by: NGW
Submitted: 05 FEB 2024
Drawn by: JCP
File: As indicated
Reviewed by: DOC
Scale: As indicated
Project Number: 23049
Submitted by: Approver
Date: 05/29/2023
Description: PERMIT SET

RCH Valley
Real Color Holdings, LLC
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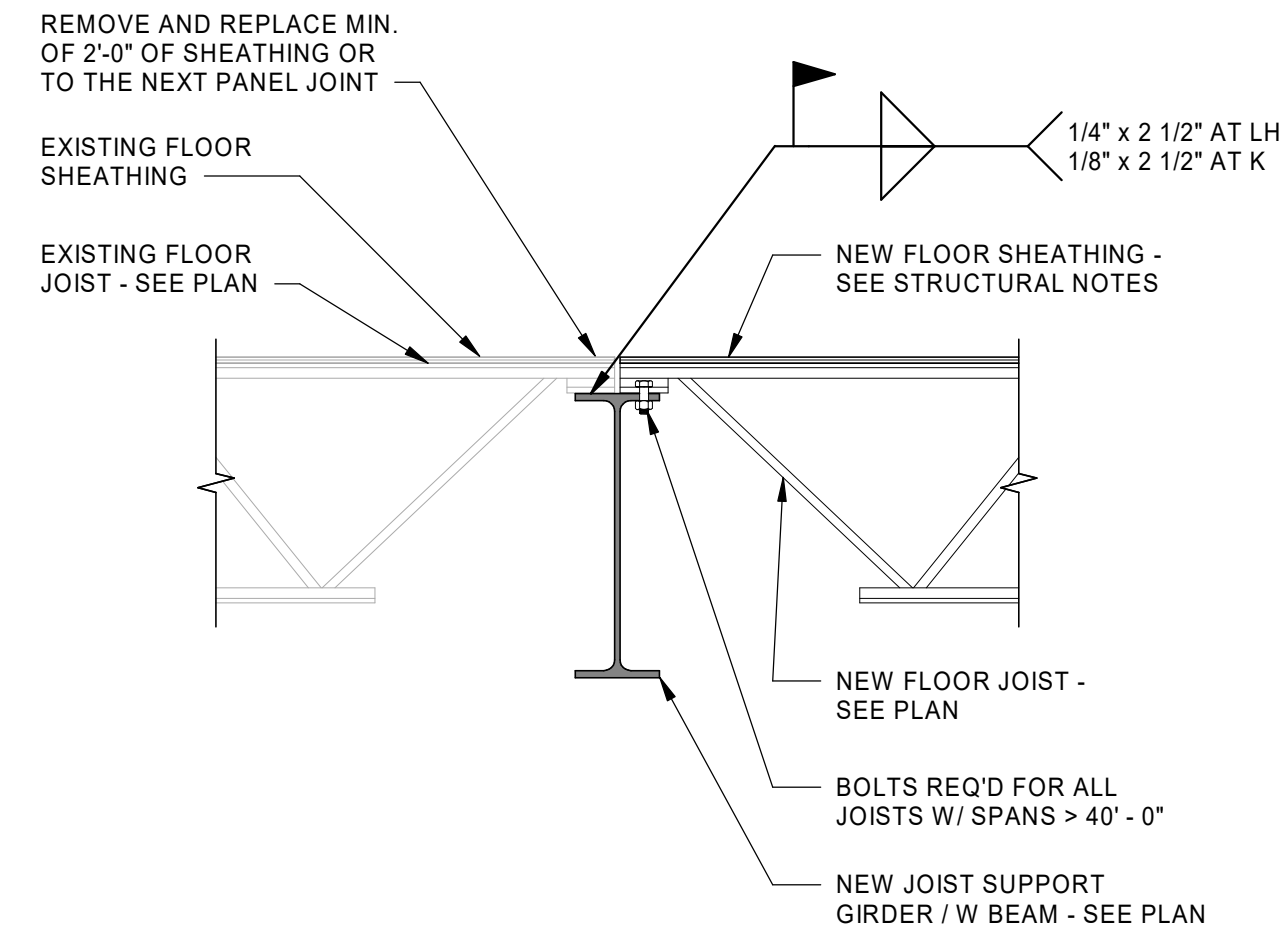
SHEET NUMBER
S201



JOISTS ON BEAM

SCALE: NONE

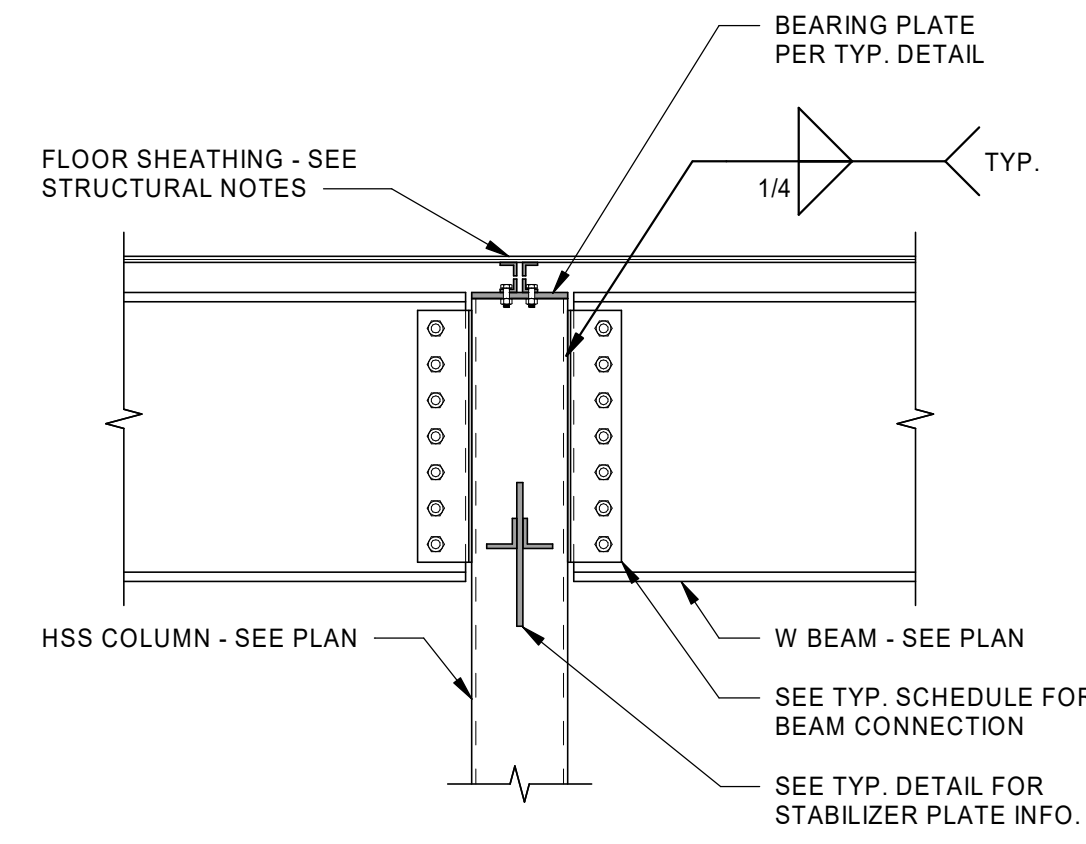
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S210



JOISTS ON BEAM

SCALE: NONE

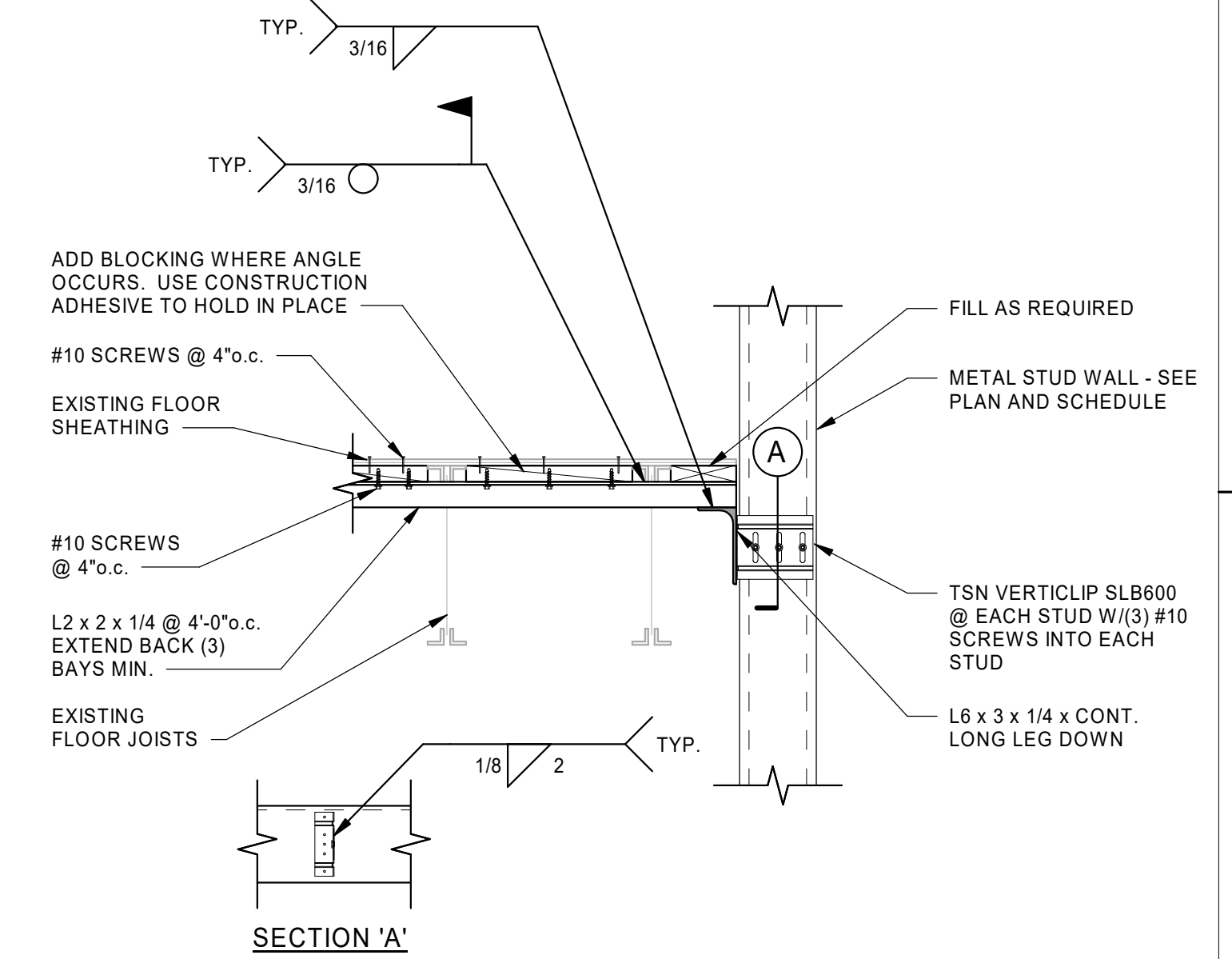
2
S210



BEAMS & JOISTS INTO HSS COLUMN

SCALE: NONE

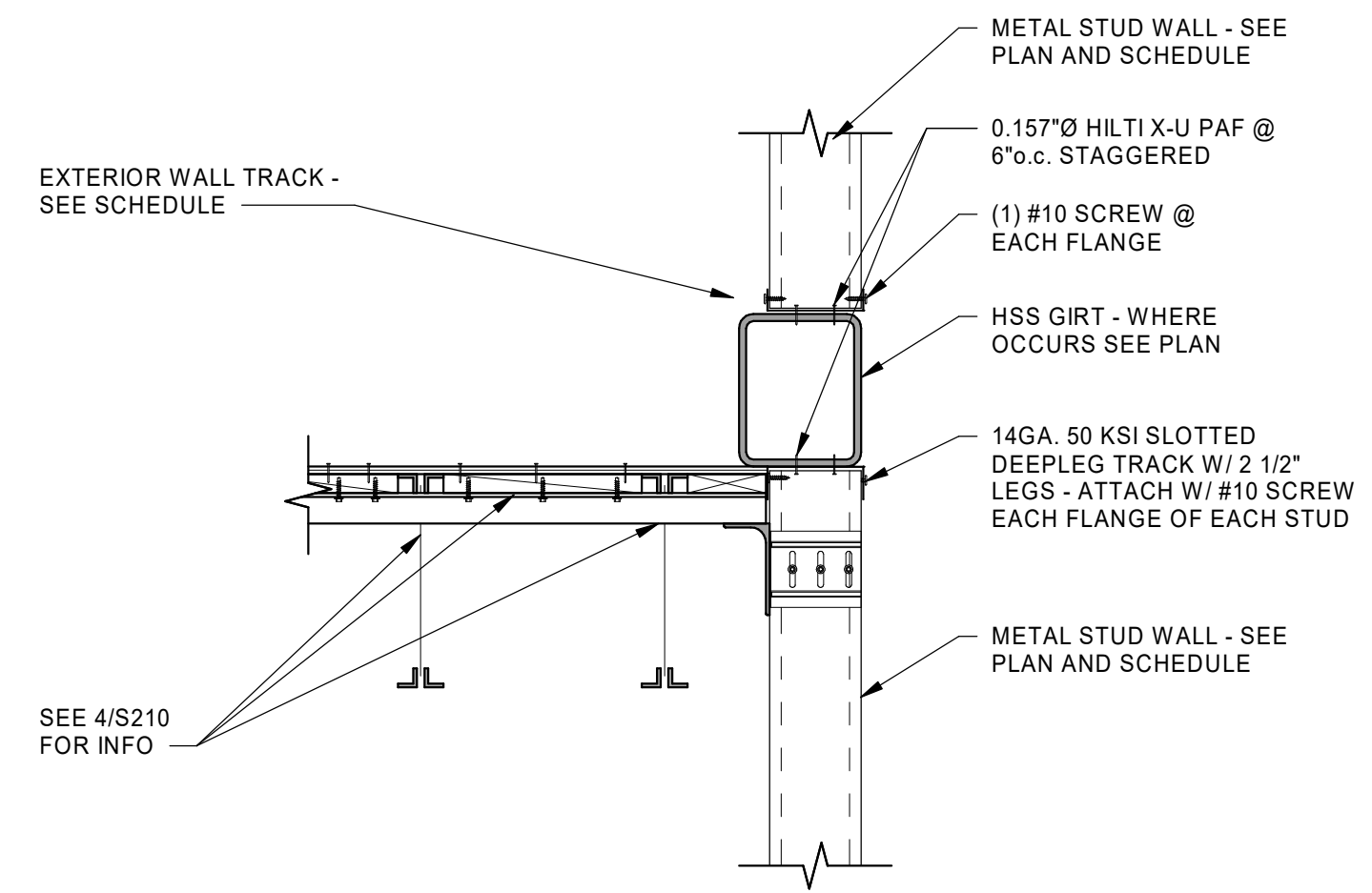
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S210



DETAIL

SCALE: NONE

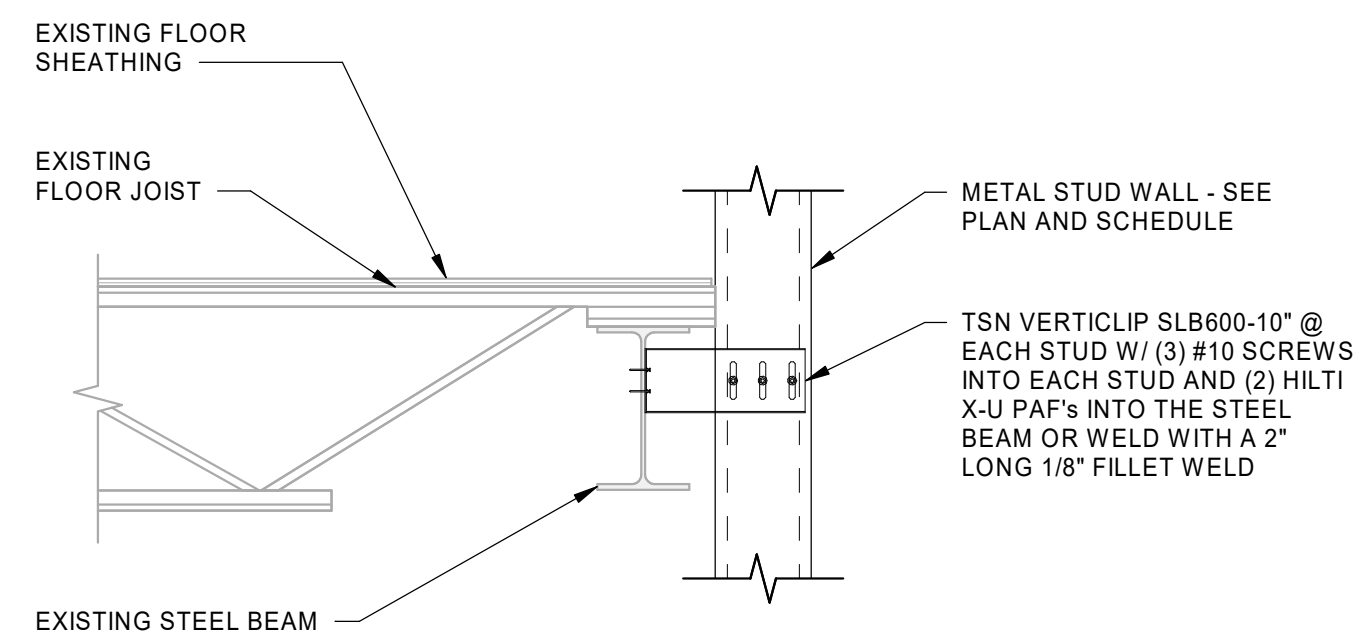
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S210



DETAIL

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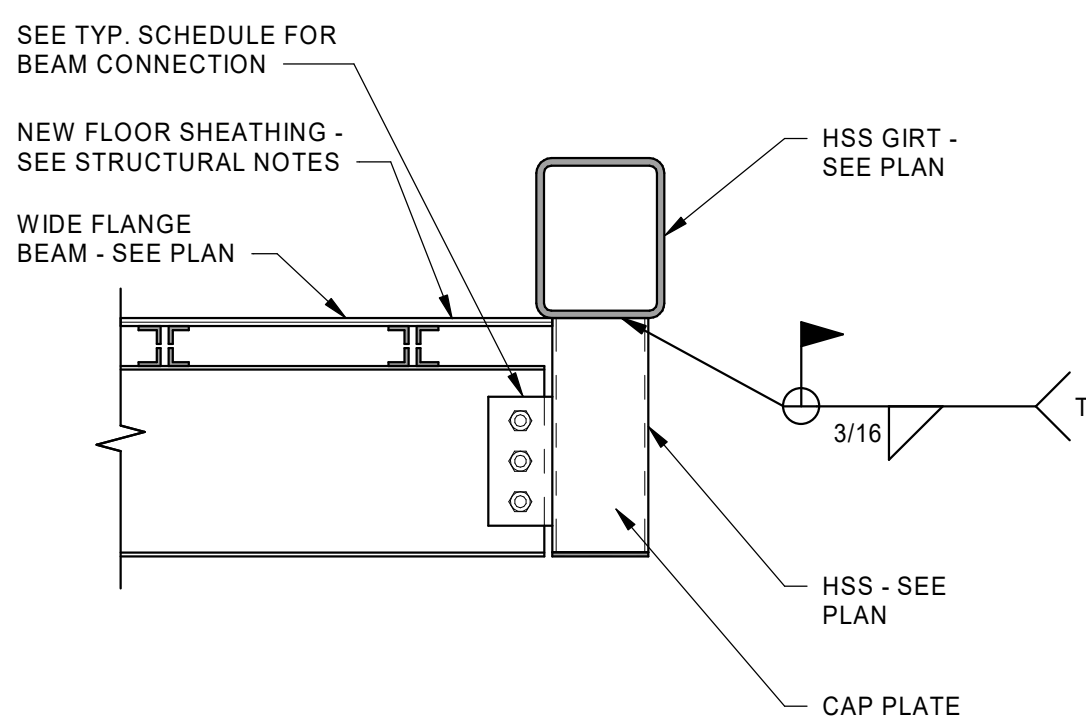
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S210



DETAIL

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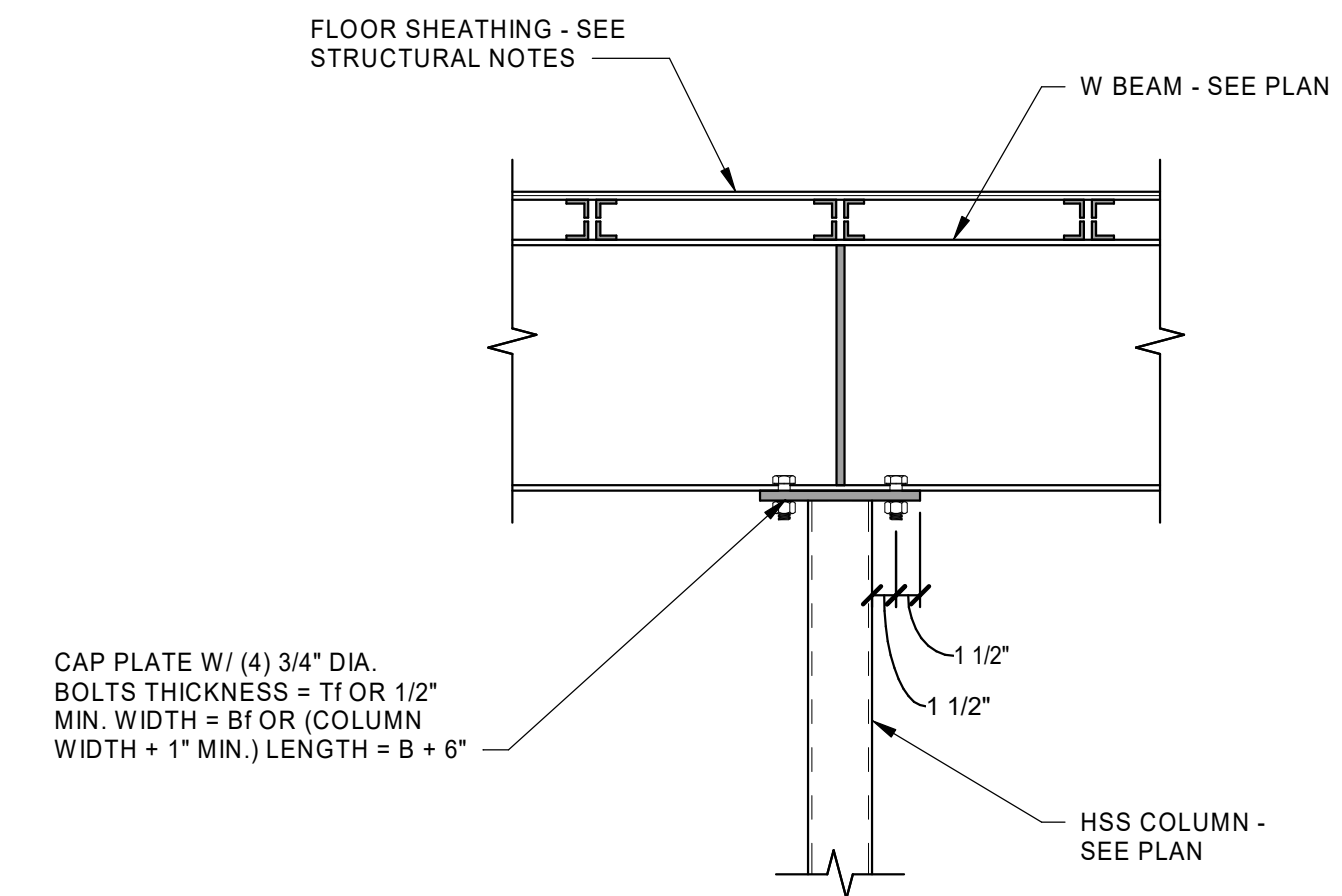
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S210



DETAIL

SCALE: NONE

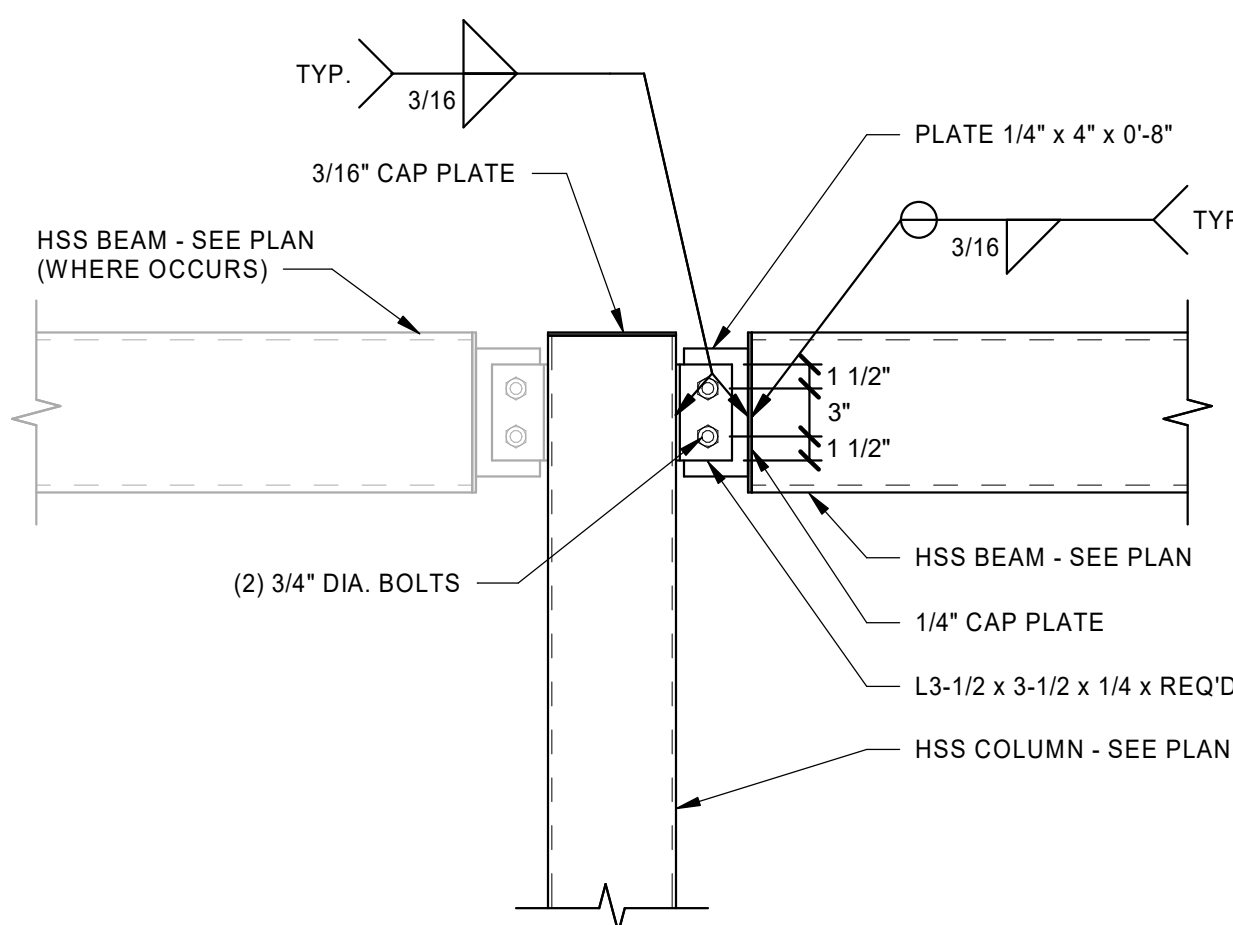
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S210



DETAIL

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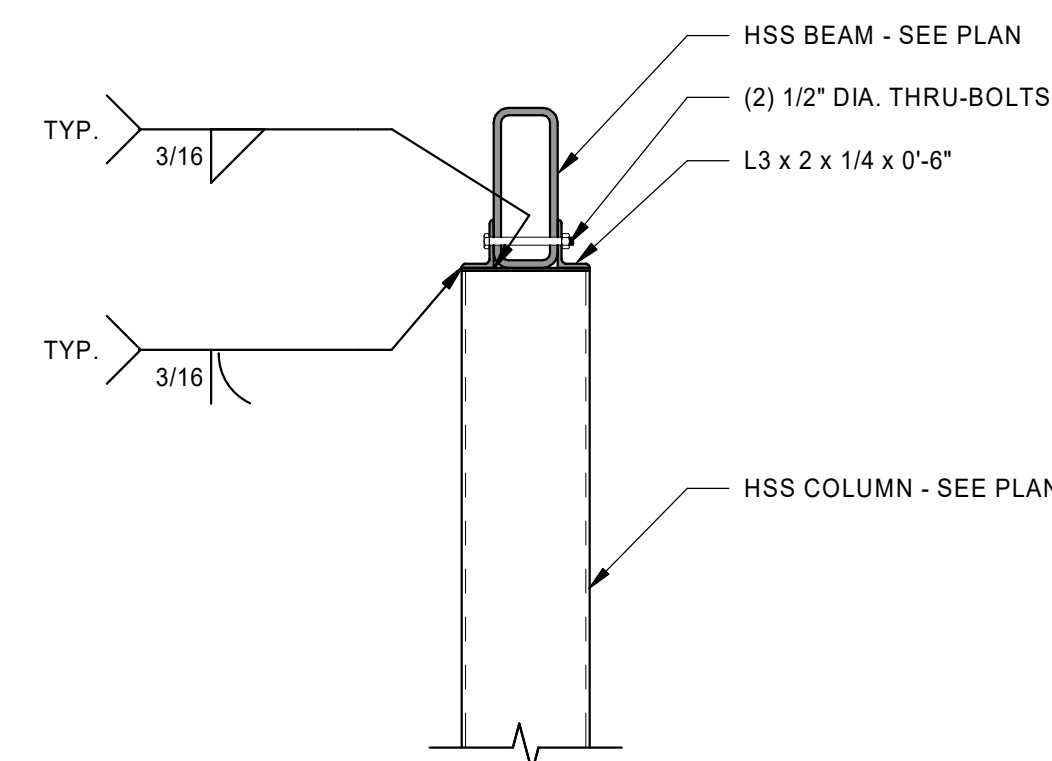
8
S210



DETAIL

SCALE: NONE

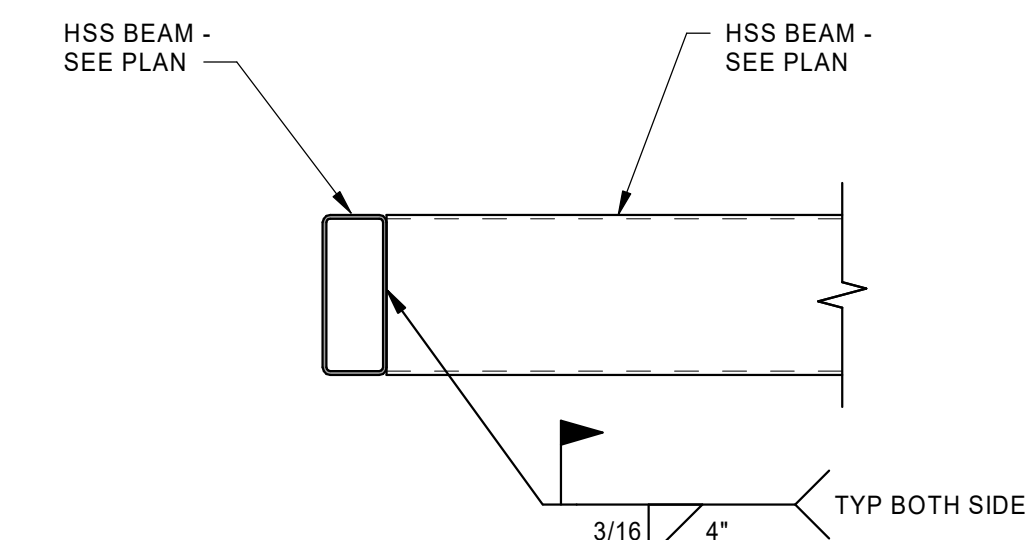
9
S210



DETAIL

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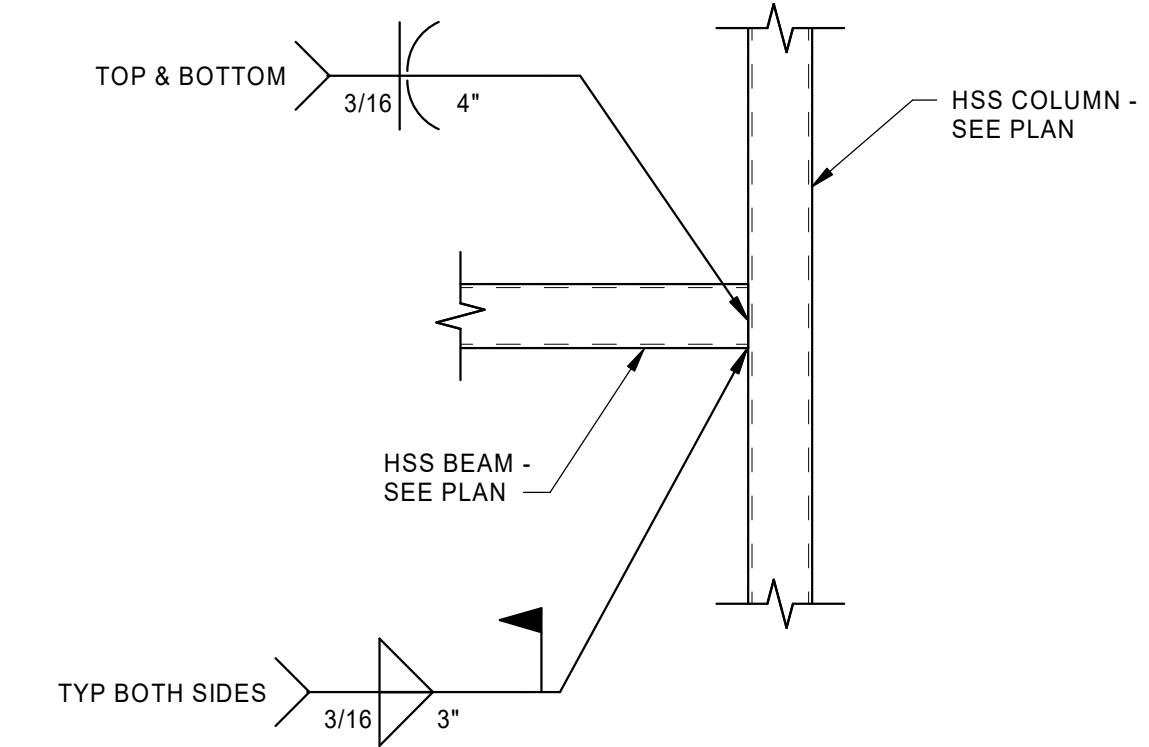
10
S210



DETAIL

SCALE: NONE

11
S210



DETAIL

SCALE: NONE

12
S210



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JCP		
Reviewed by:	Scale:	
DOC	As indicated	
Submitted by:	Project Number:	
Approver	23049	

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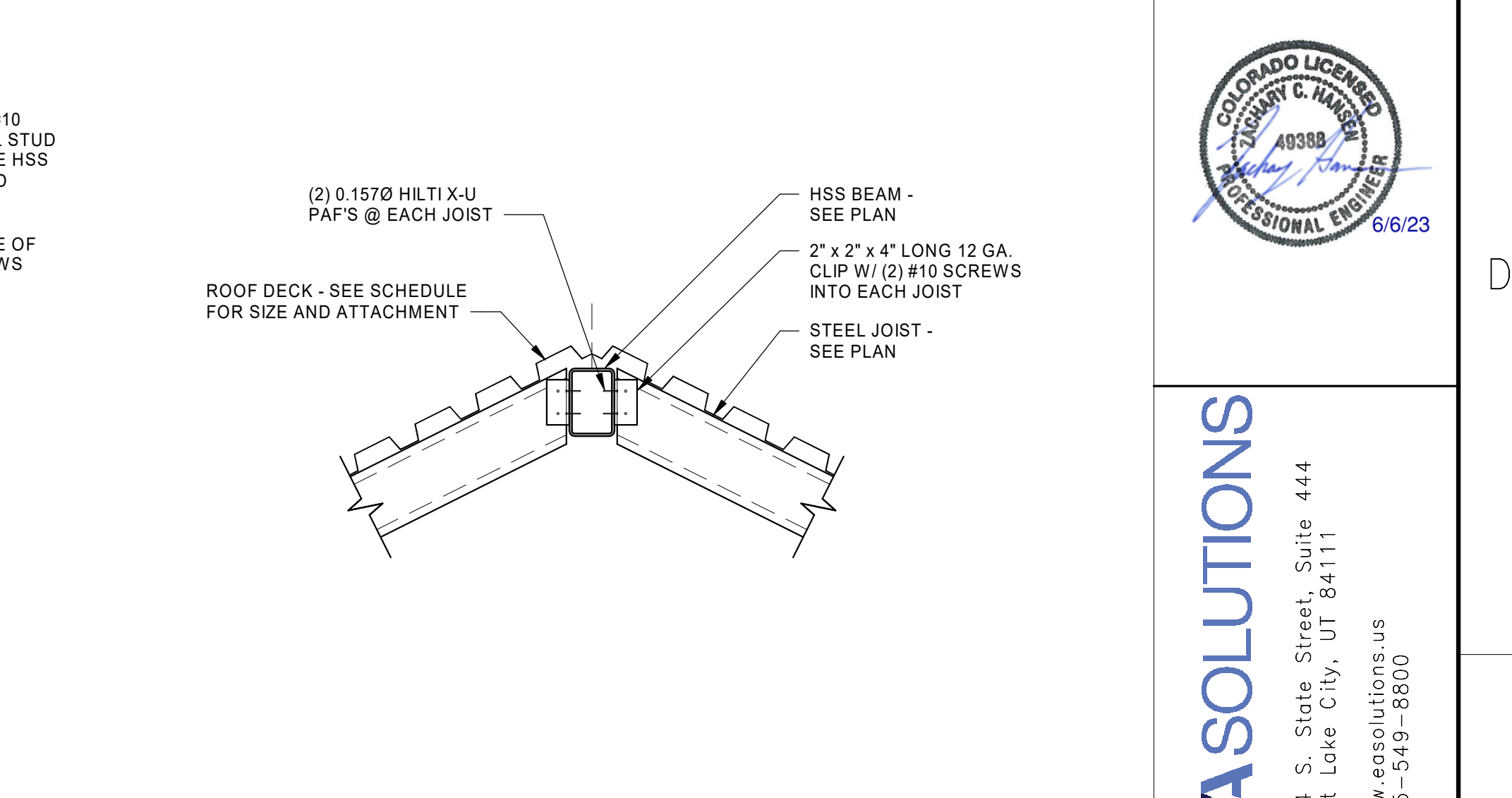
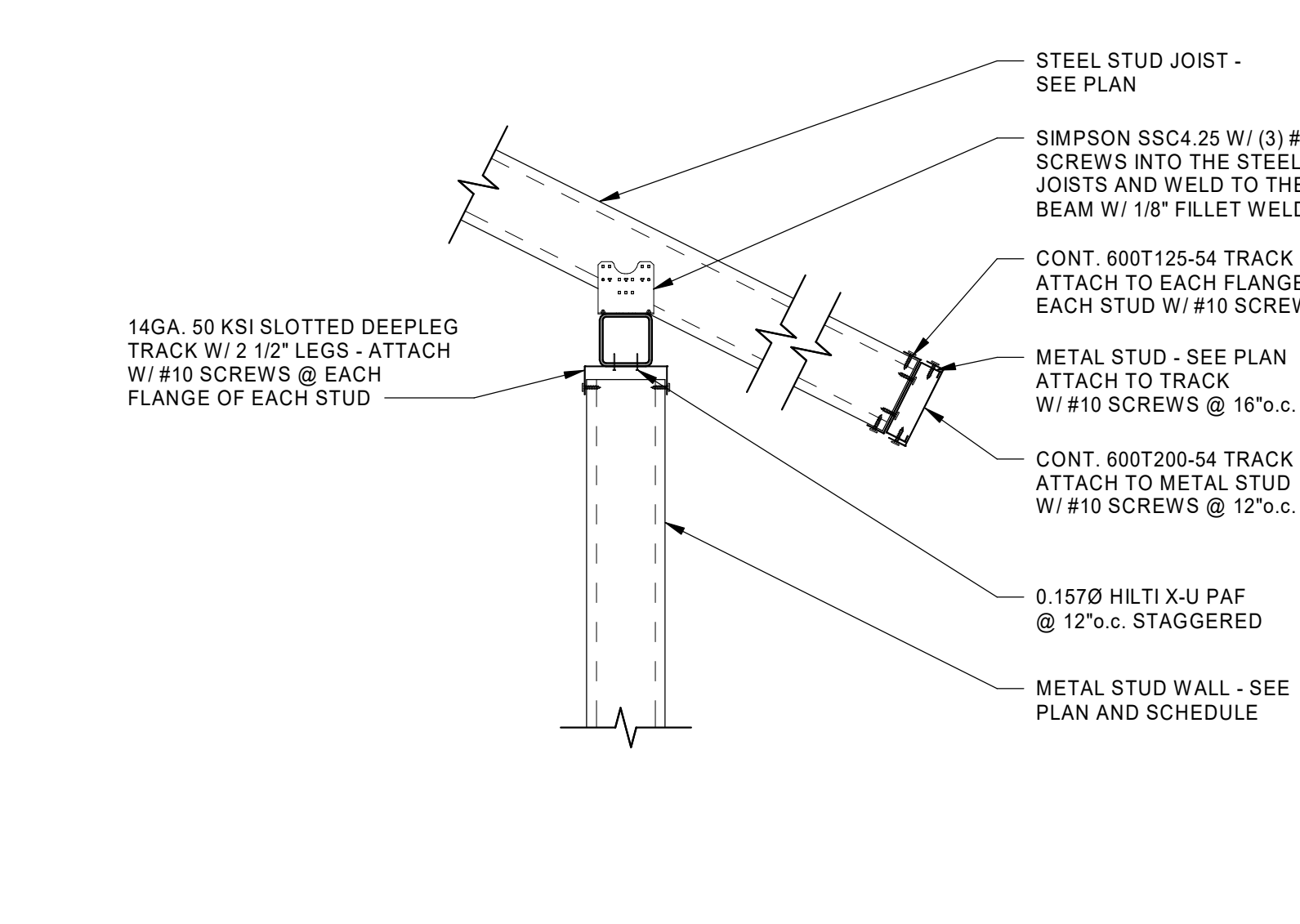
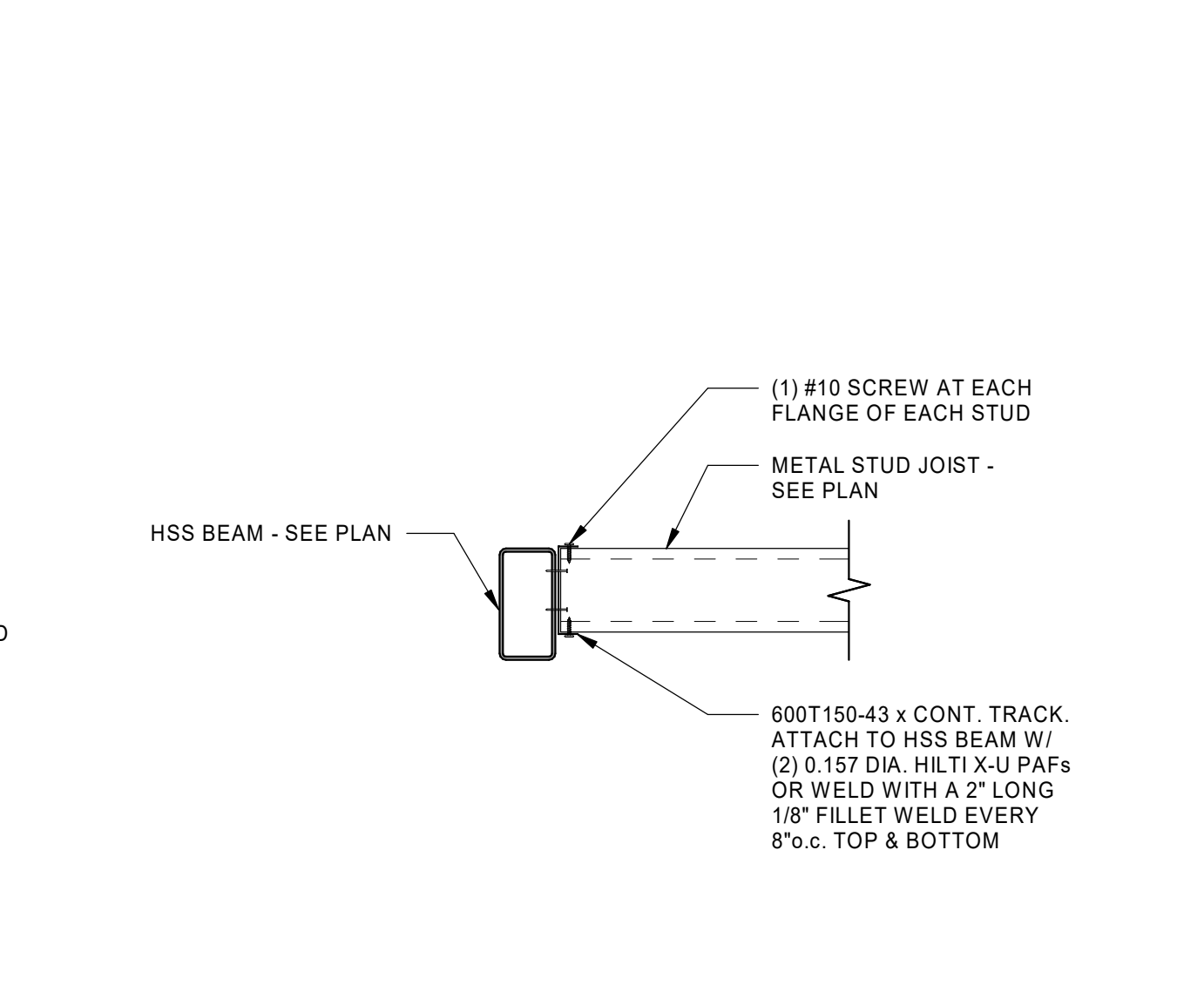
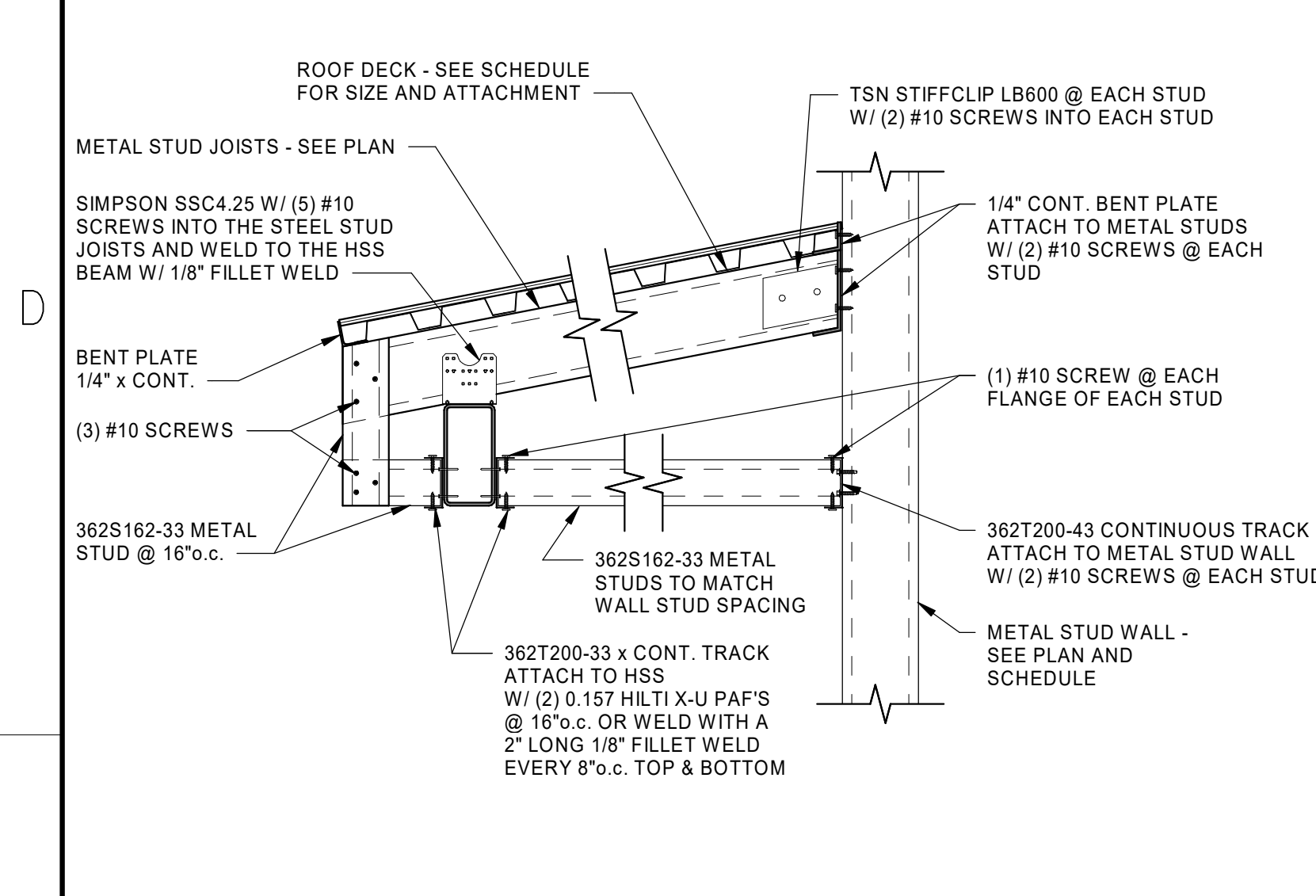
FRAMING DETAILS

SHEET NUMBER

S210

1 2 3 4 5

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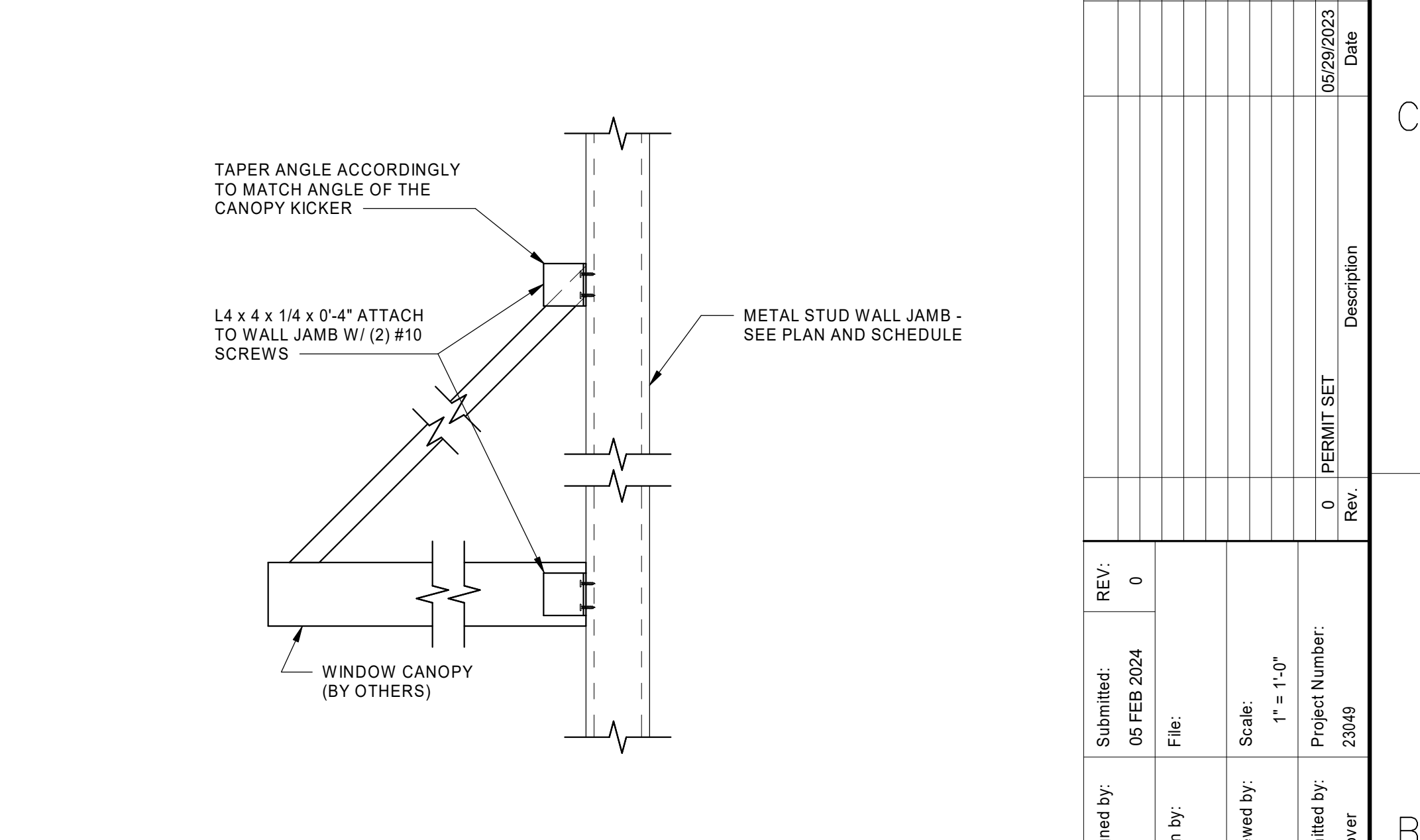
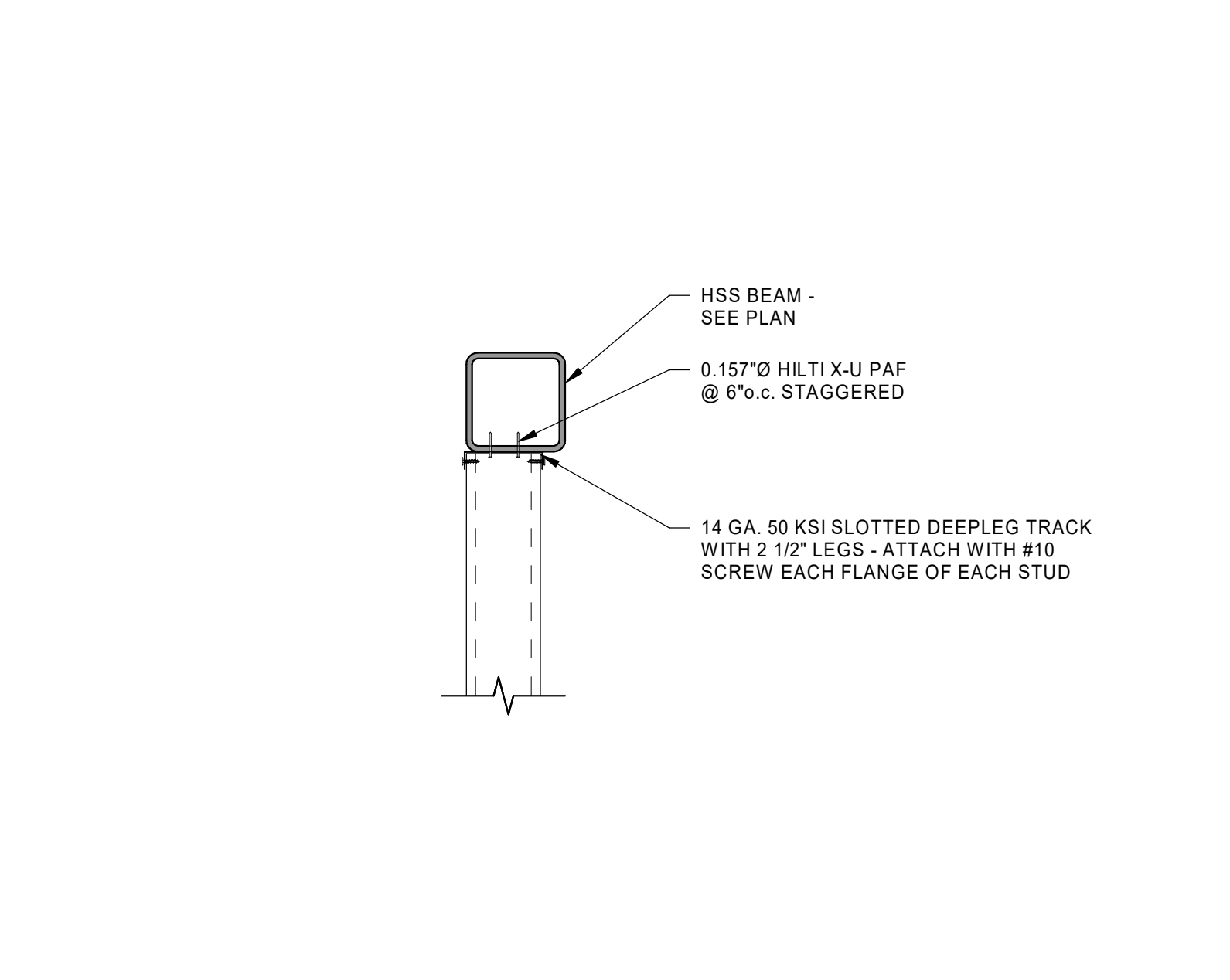
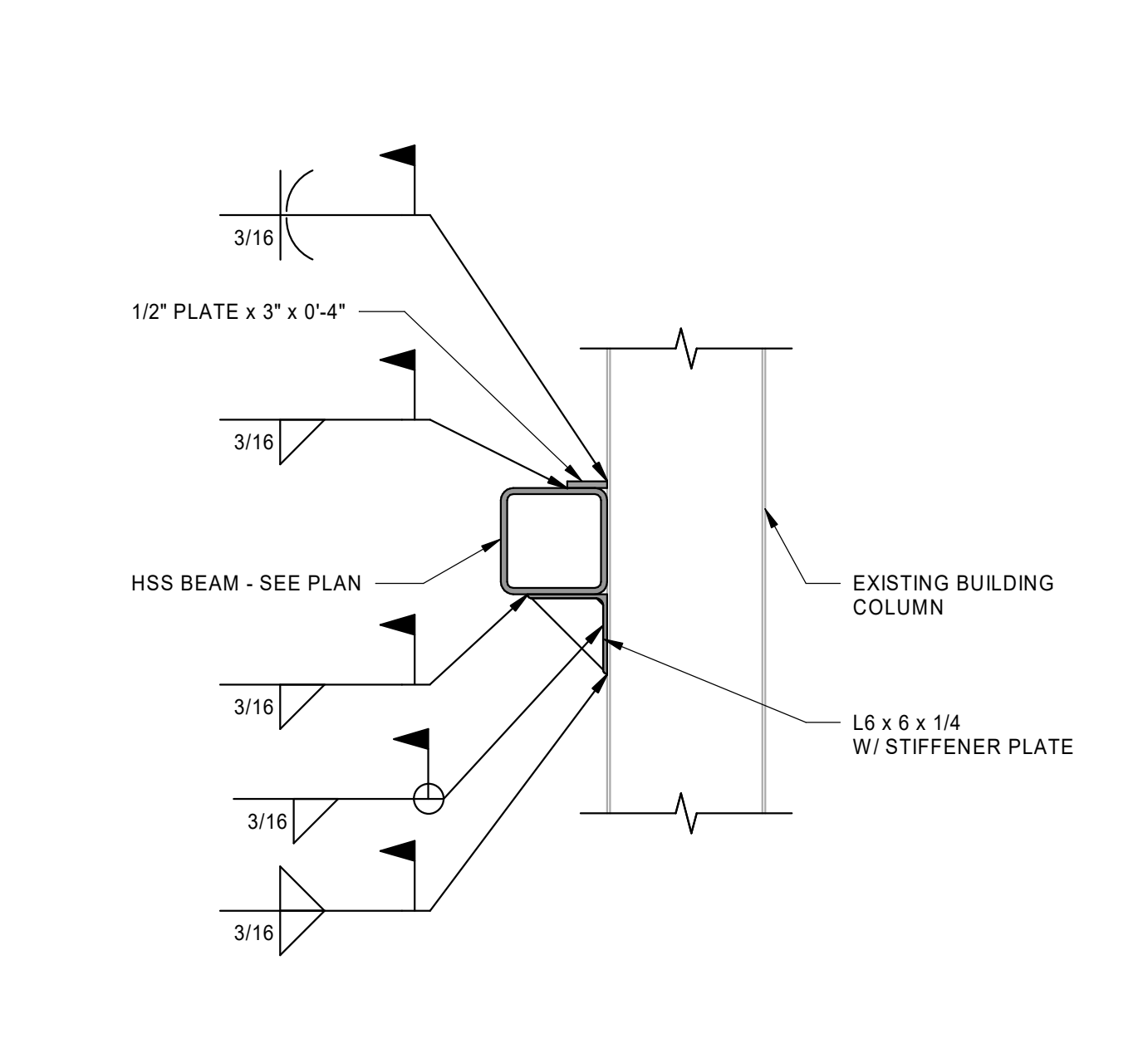
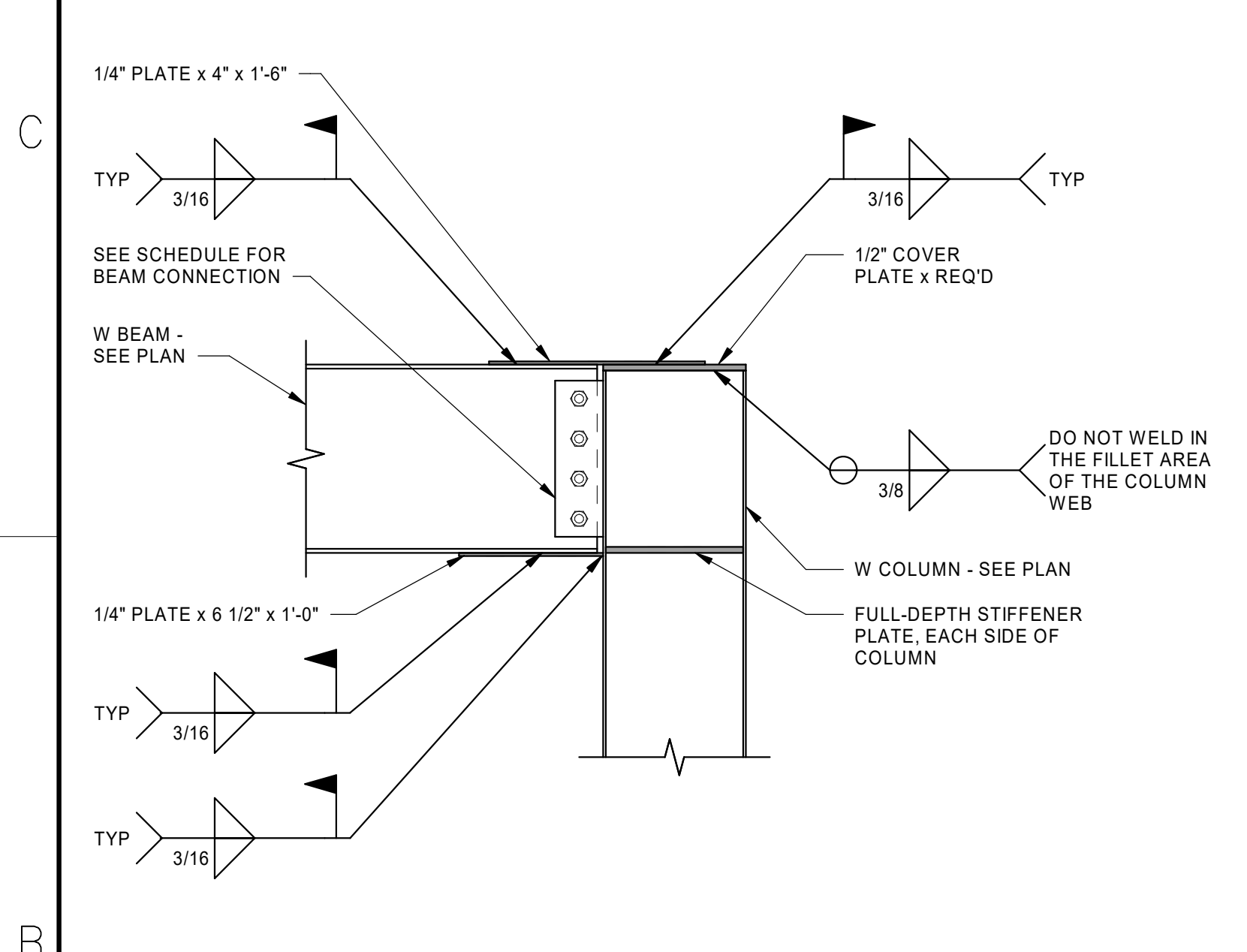


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S220

DETAIL
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S220

DETAIL
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S220

DETAIL
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S220

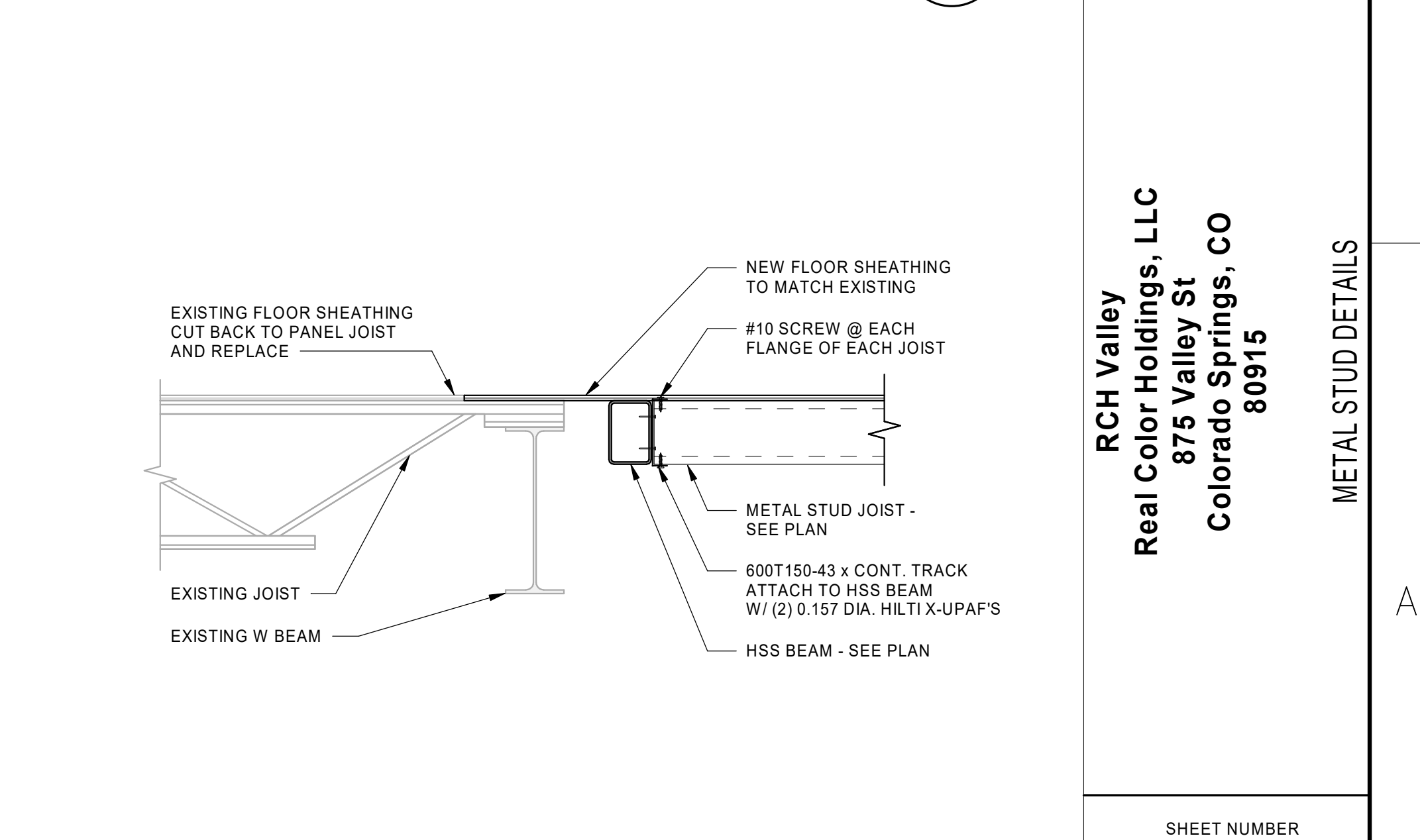
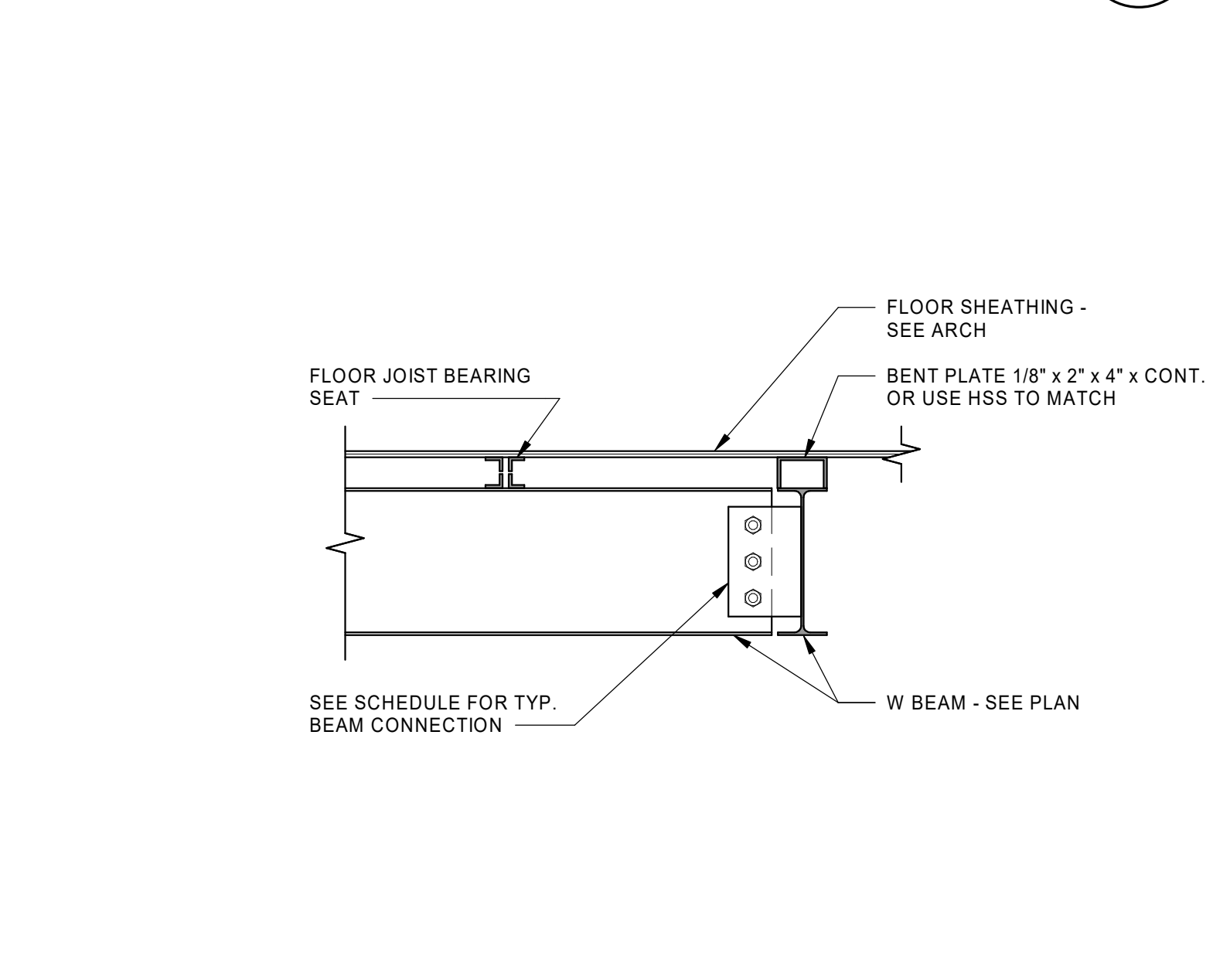
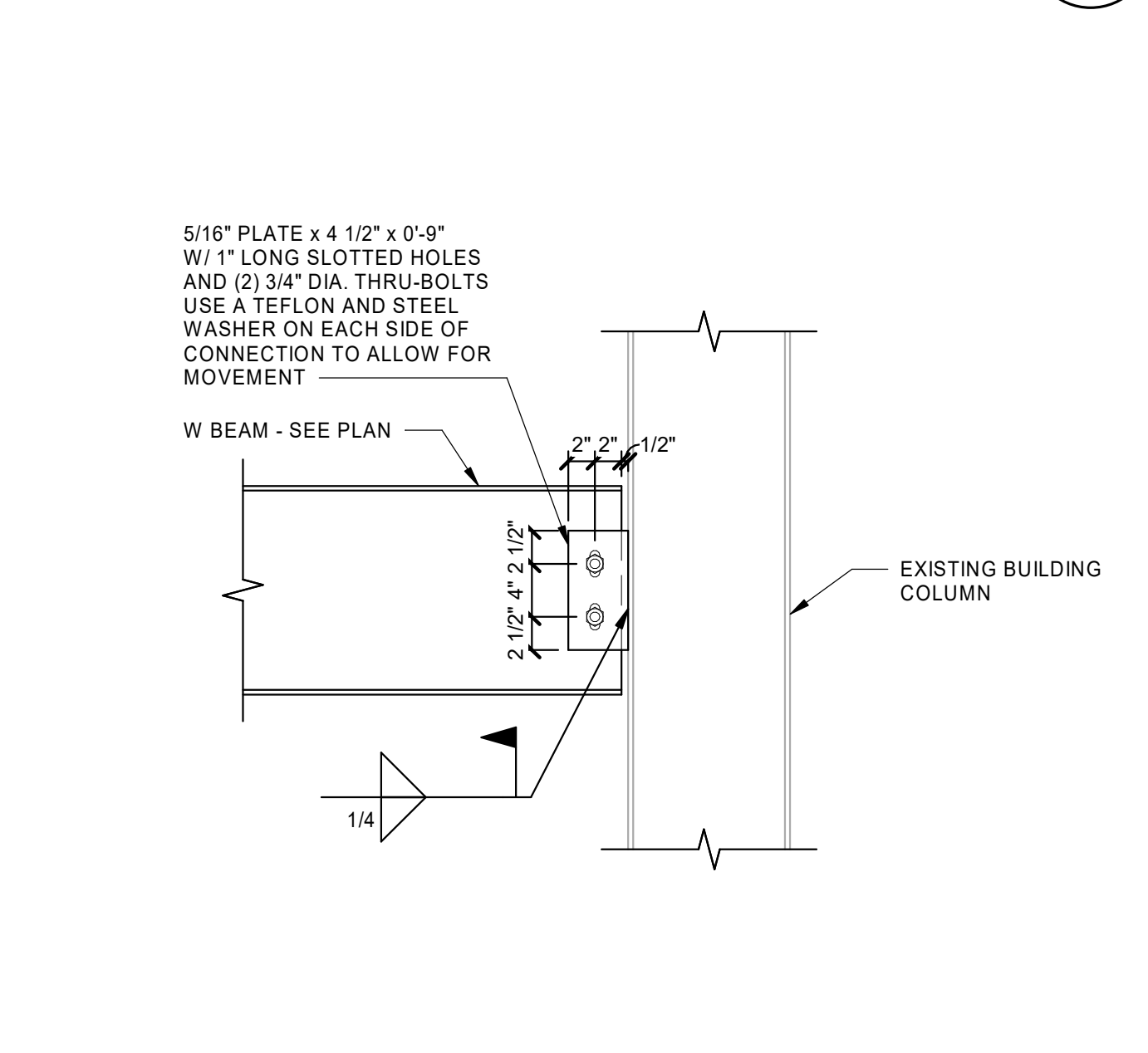
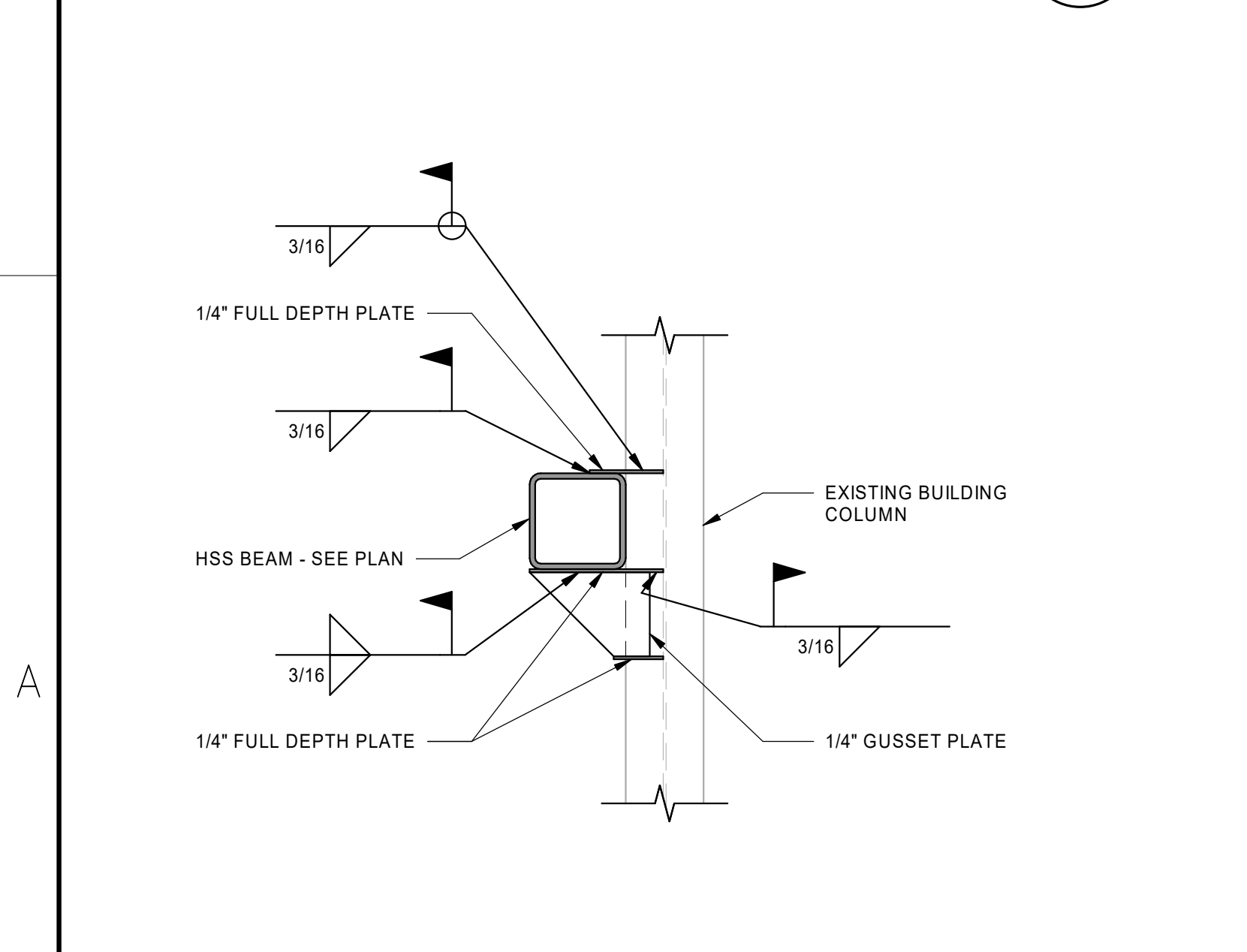


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S220

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S220

DETAIL
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S220

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SCALE: NONE
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S220



DETAIL
SCALE: NONE
9
S220

DETAIL
SCALE: NONE
10
S220

DETAIL
SCALE: NONE
11
S220

DETAIL
SCALE: NONE
12
S220

PLOT DATE: 2/5/2024 1:53:13 PM 1 Autodesk Docs://EA234002TP-RCH Valley/S-23049-HHI Office Remodel - v.23.rvt 2 3 4 5



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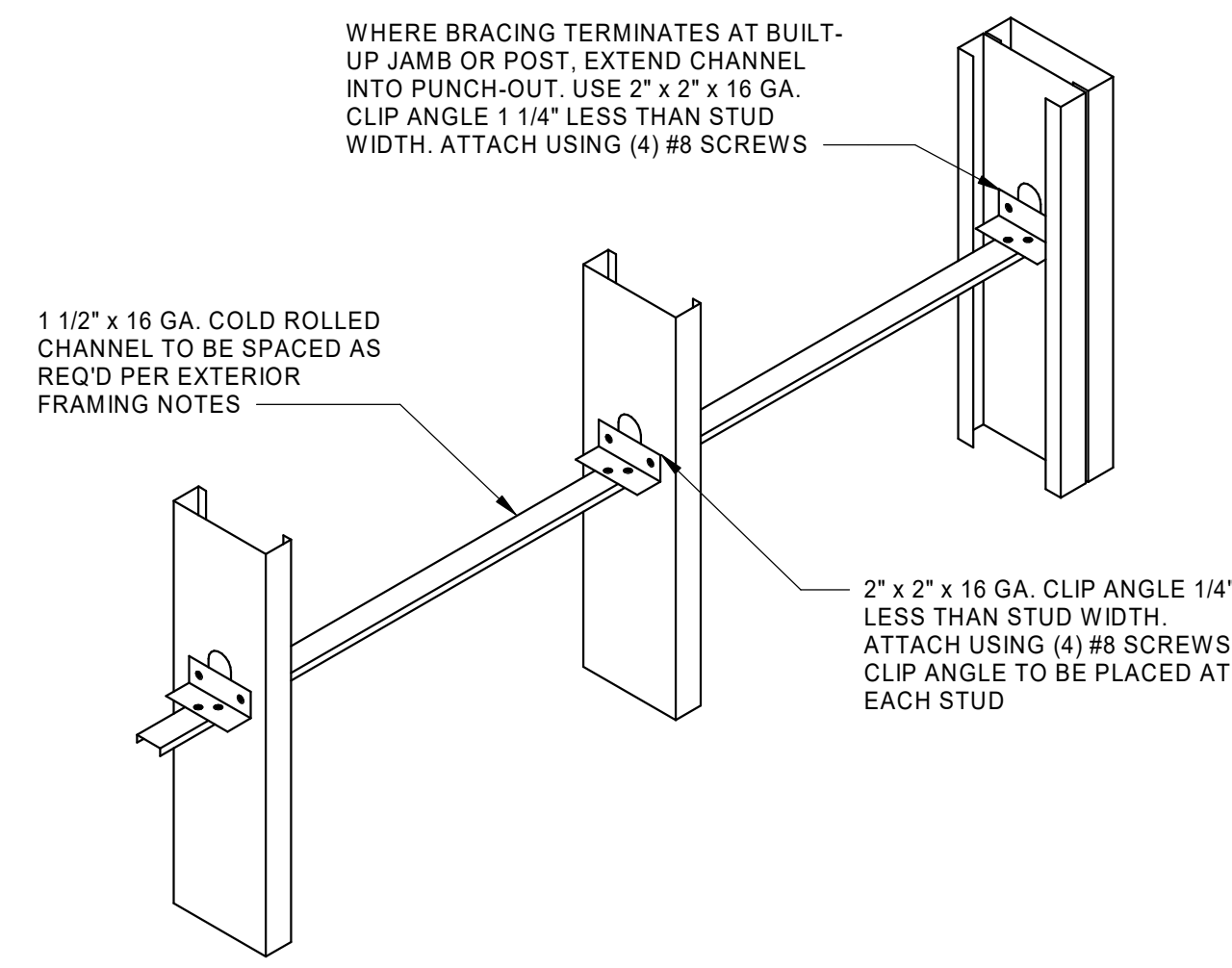
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0	05/29/2023	PERMIT SET

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NGW	05 FEB 2024	0
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JCP		
Reviewed by:	Scale:	1" = 1'-0"
DOC	Project Number:	23049
Submitted by:	Permit Set:	0
Approver:		

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SHEET NUMBER
S220

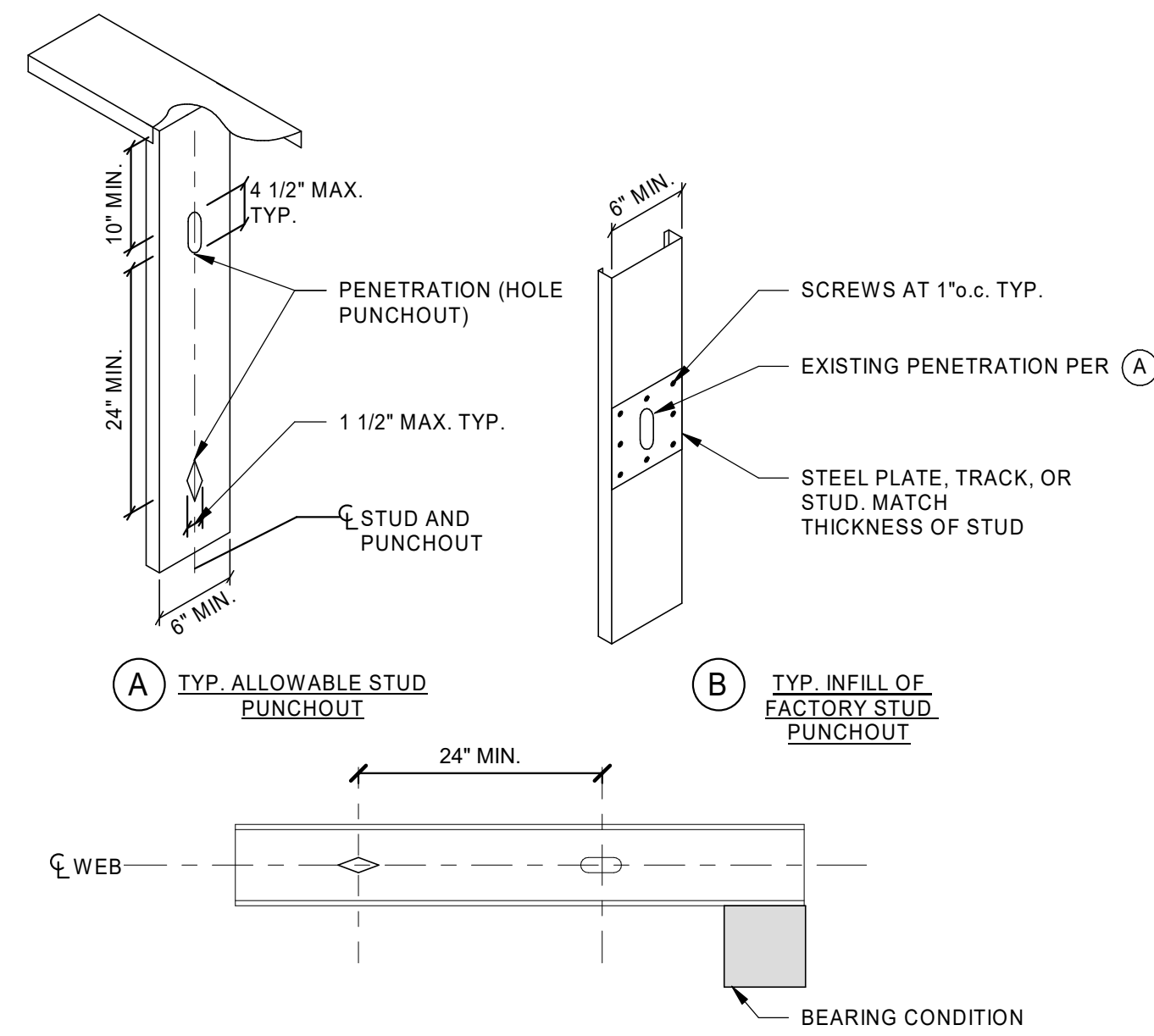
METAL STUD DETAILS



TYP. LATERAL BRACING / BRIDGING

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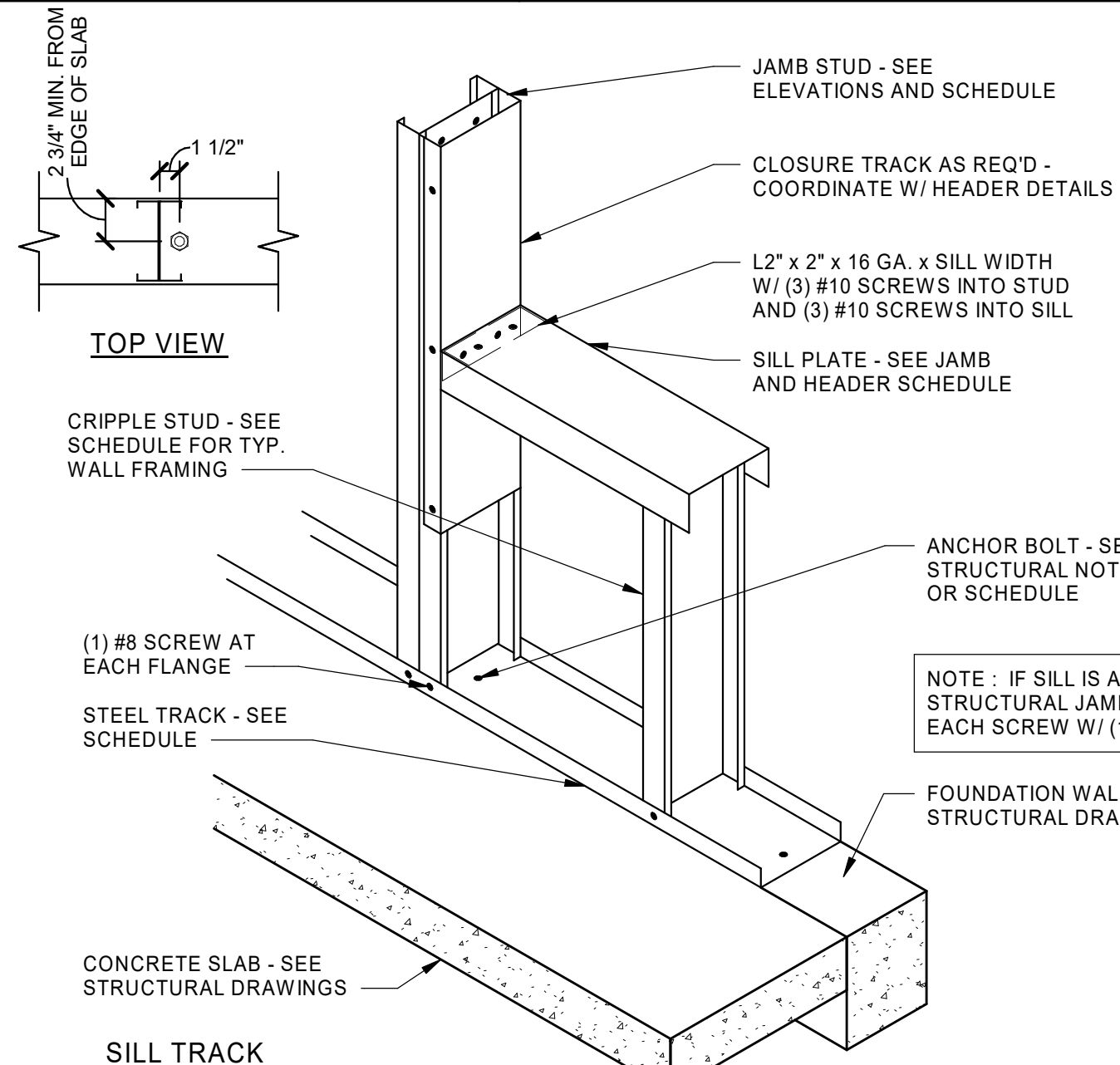
1 S230



DETAIL

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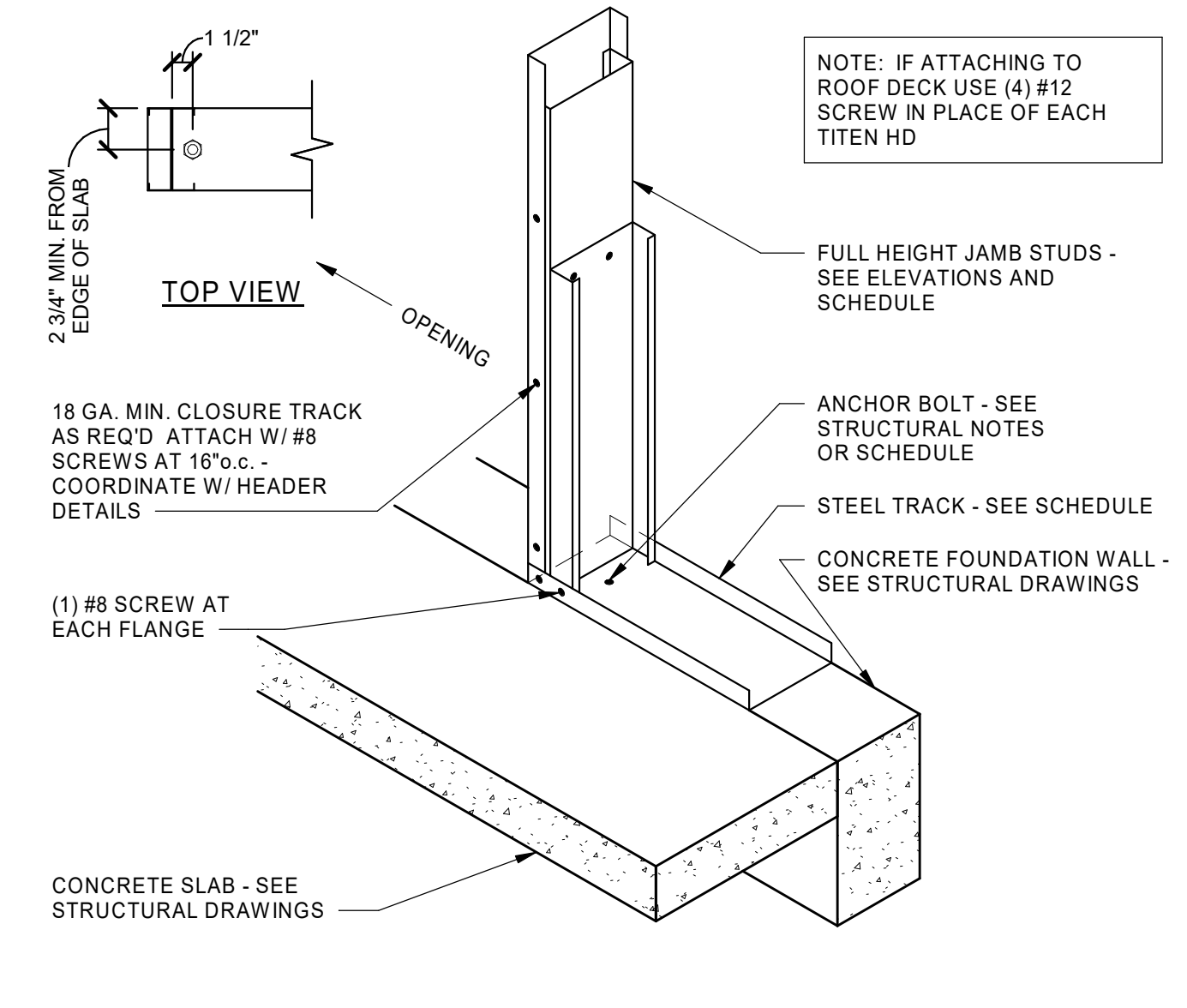
2 S230



SILL TRACK CONNECTION @ WINDOW OPENINGS

SCALE: NONE

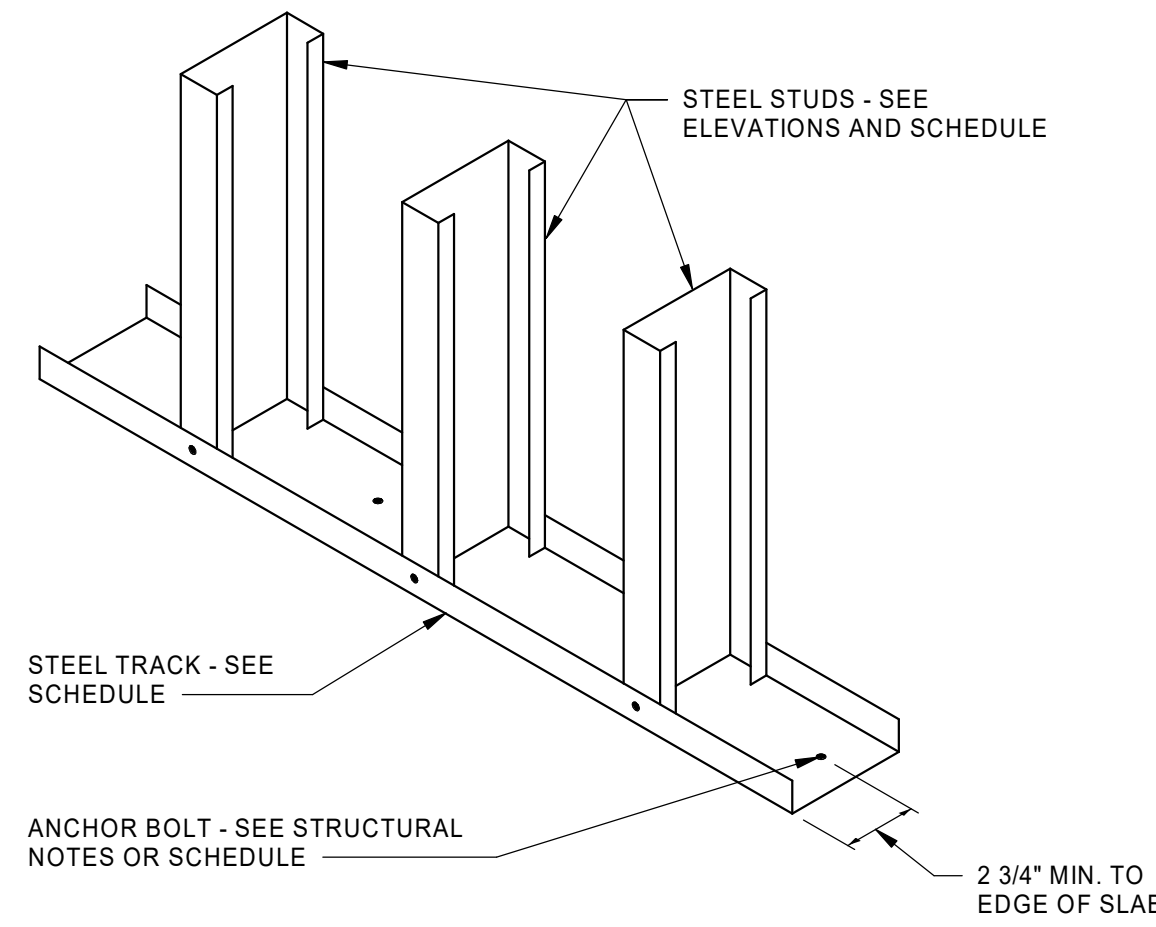
3 S230



DOOR JAMB ANCHORAGE

SCALE: NONE

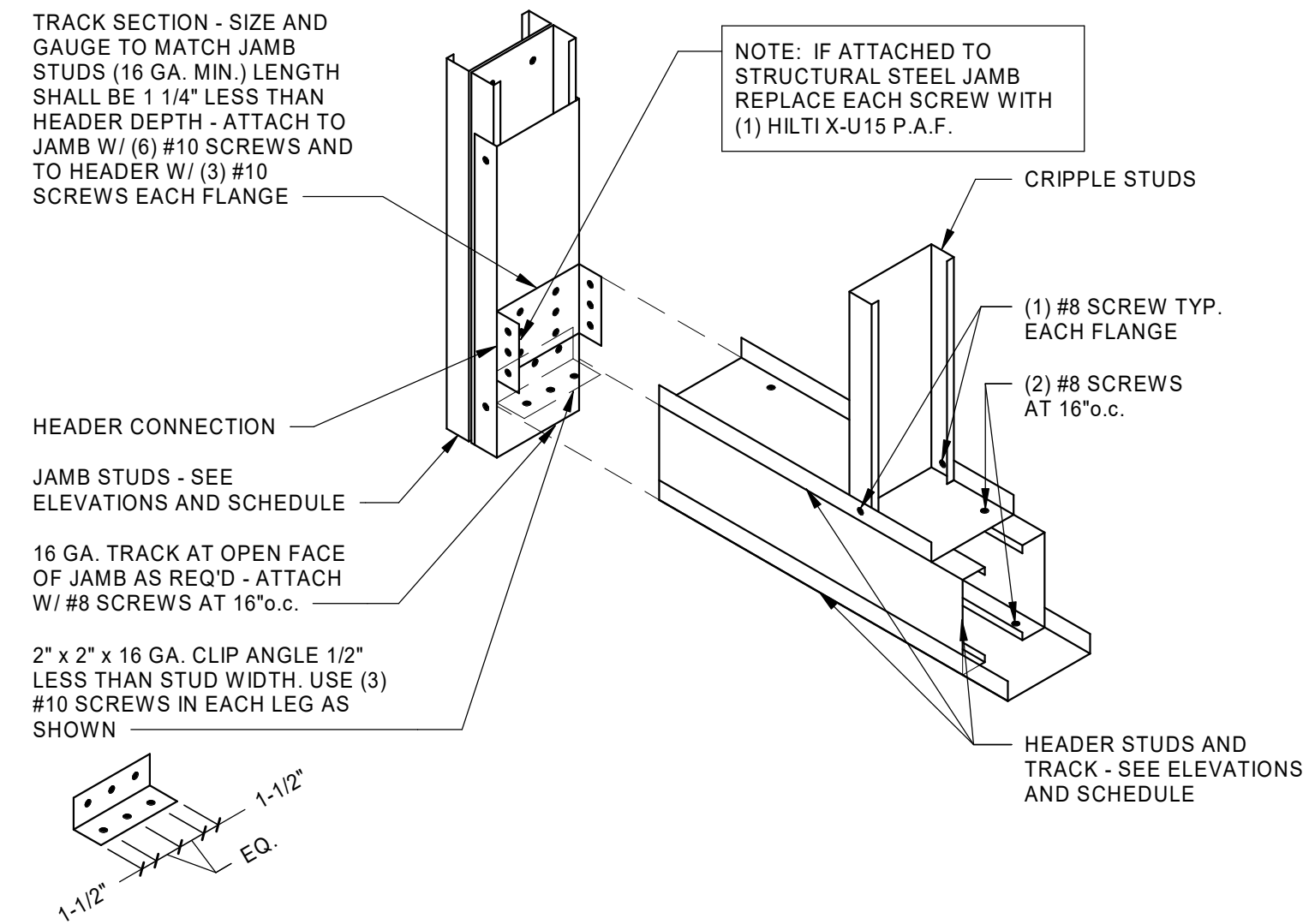
4 S230



DETAIL

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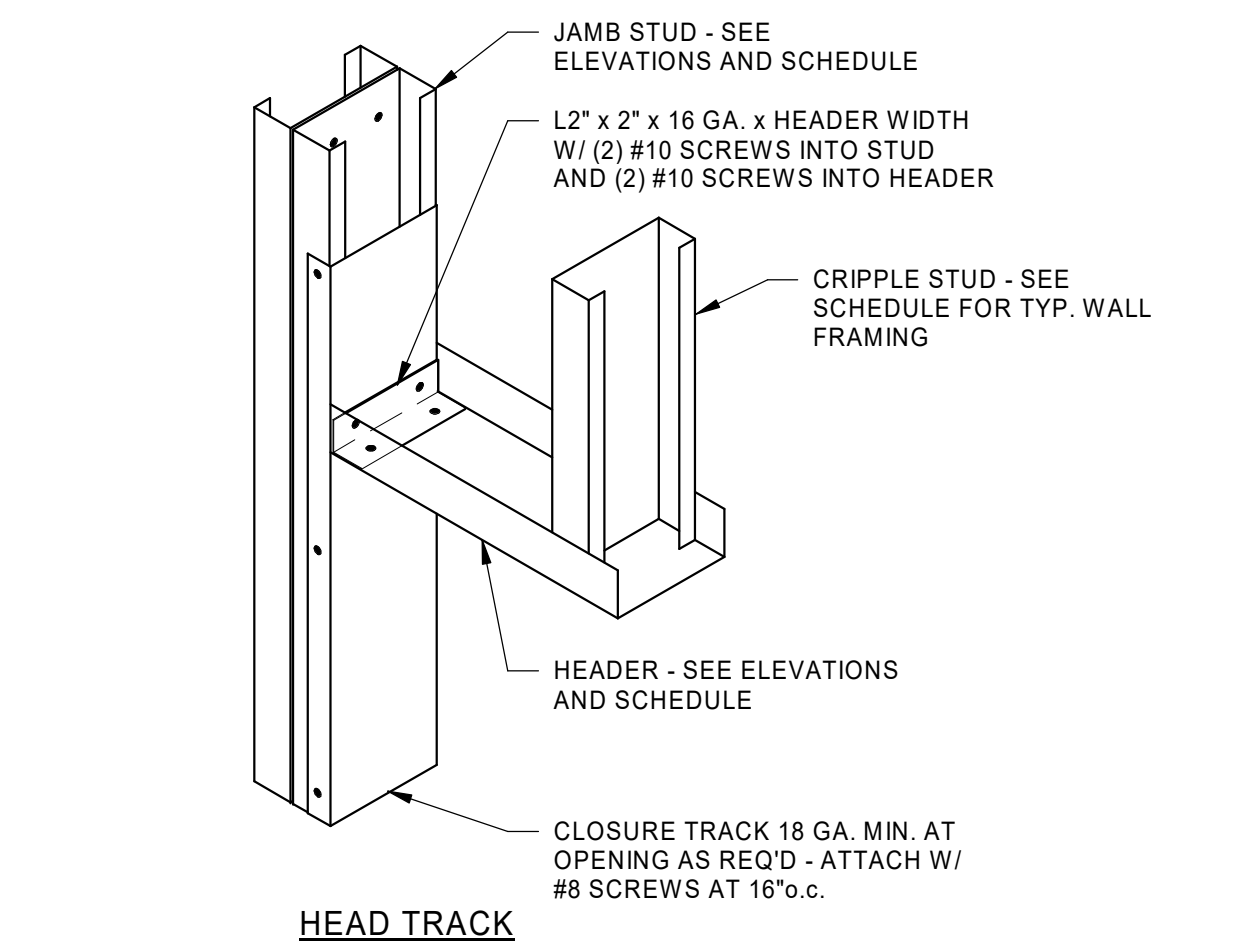
5 S230



TYP. BOX HEADER CONNECTION

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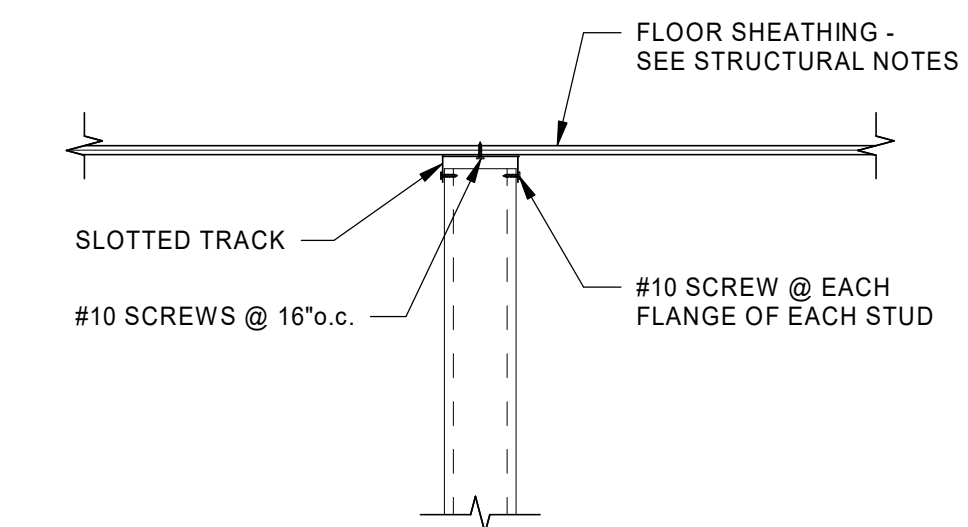
6 S230



HEAD TRACK CONNECTION @ DOOR OPENINGS

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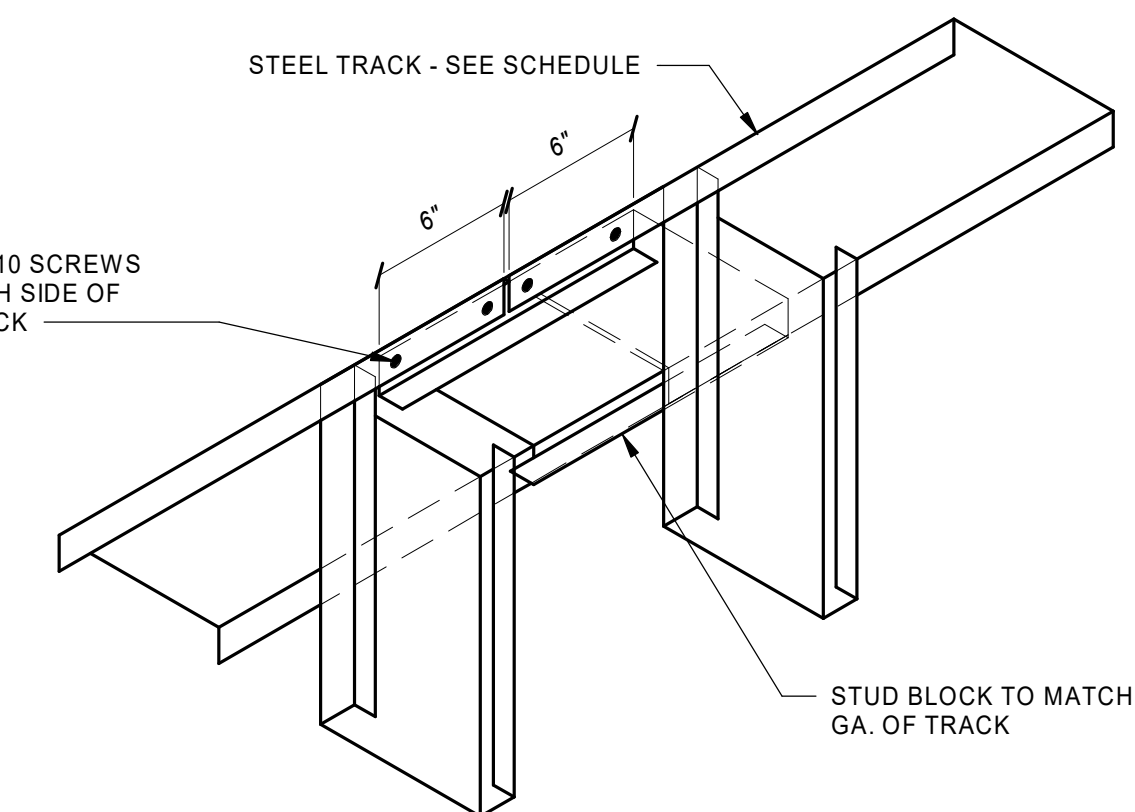
7 S230



TYP. STEEL STUD BRACE DETAIL

SCALE: NONE

8 S230



TYP. TRACK SPLICE DETAIL

SCALE: NONE

9 S230



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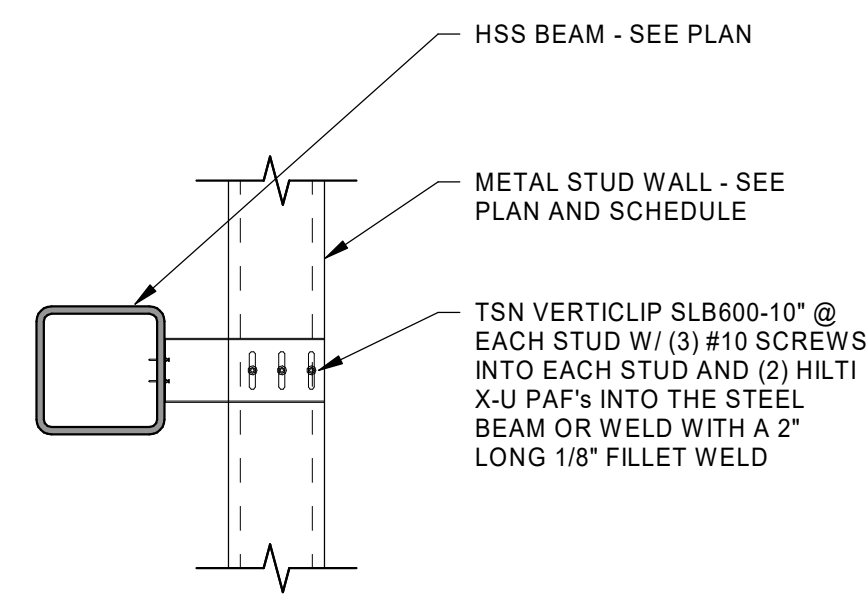
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Drawn by:	JCP	File:			
Reviewed by:	DOC	Scale:	As indicated		
Submitted by:	Approver	Project Number:	23049		

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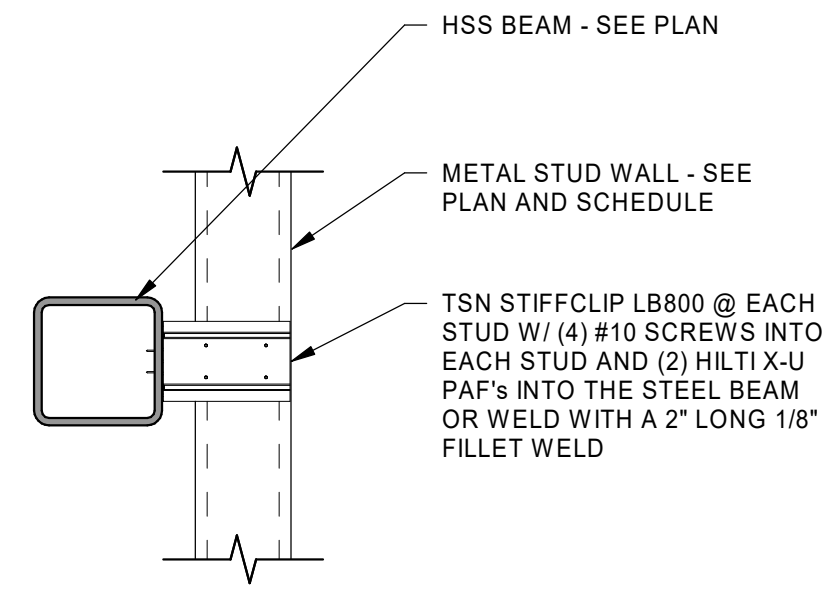
METAL STUD DETAILS

SHEET NUMBER
S230



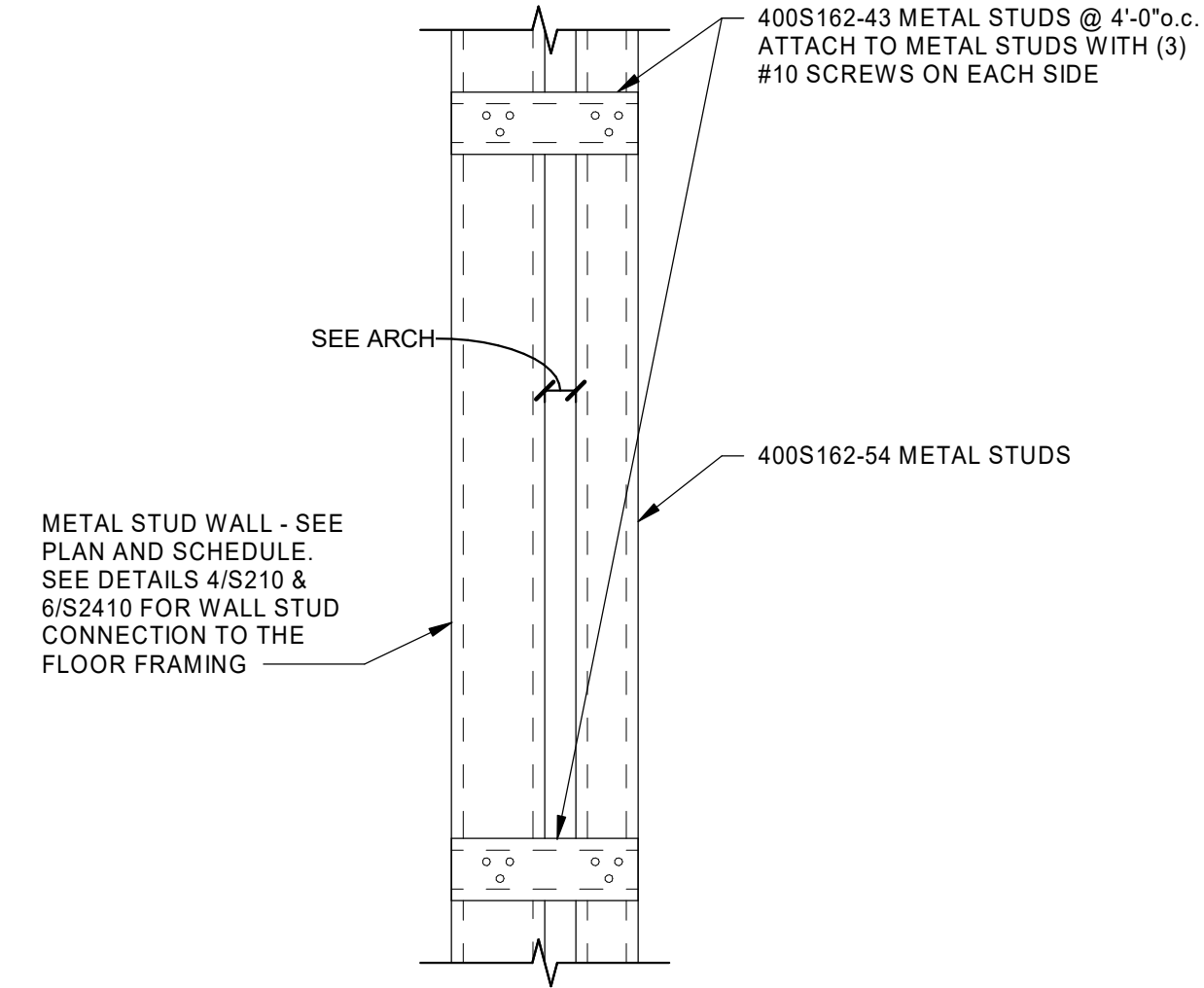
DETAIL
SCALE: NONE

1
S231



DETAIL
SCALE: NONE

2
S231



DETAIL
SCALE: NONE

3
S231



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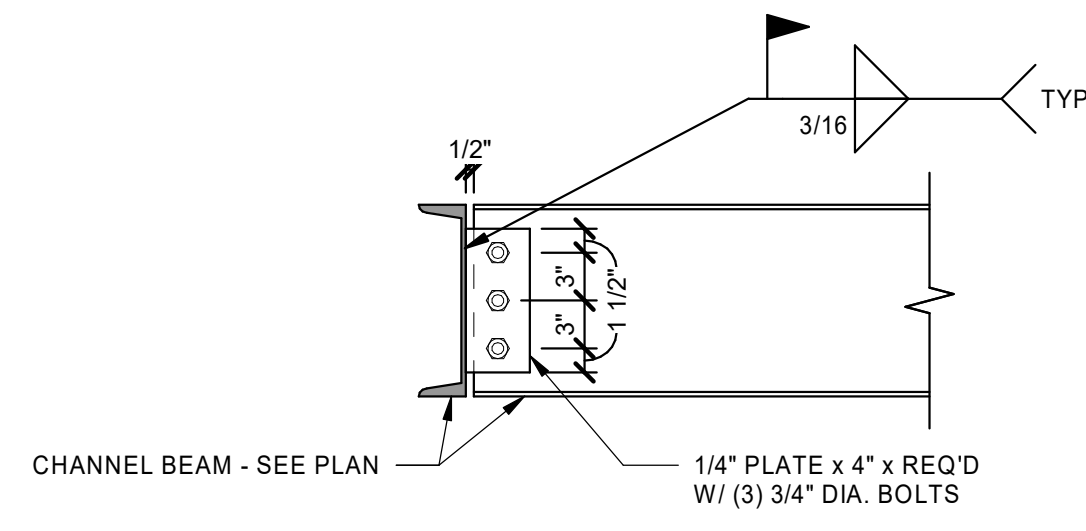
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Designer	05 FEB 2024	
Drawn by:	File:	
Author		
Reviewed by:	Scale:	
Checker	1" = 1'-0"	
Submitted by:	Project Number:	
Approver	23049	

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DETAILS

SHEET NUMBER
S231

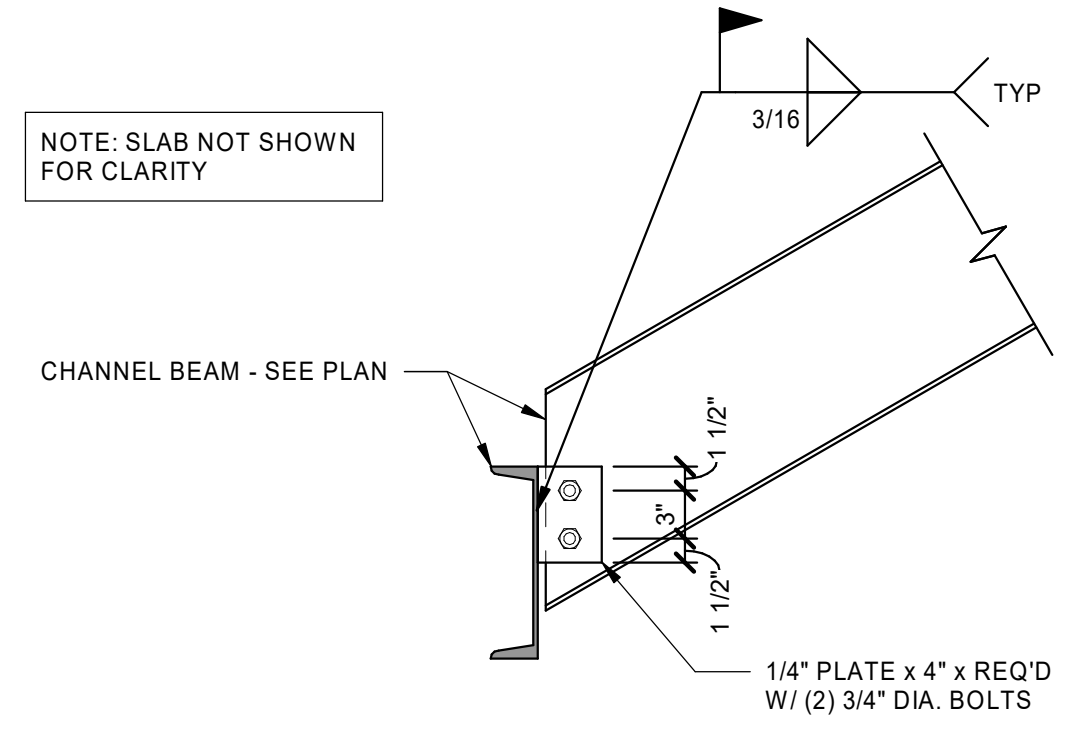
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DETAIL
SCALE: NONE

1
S240

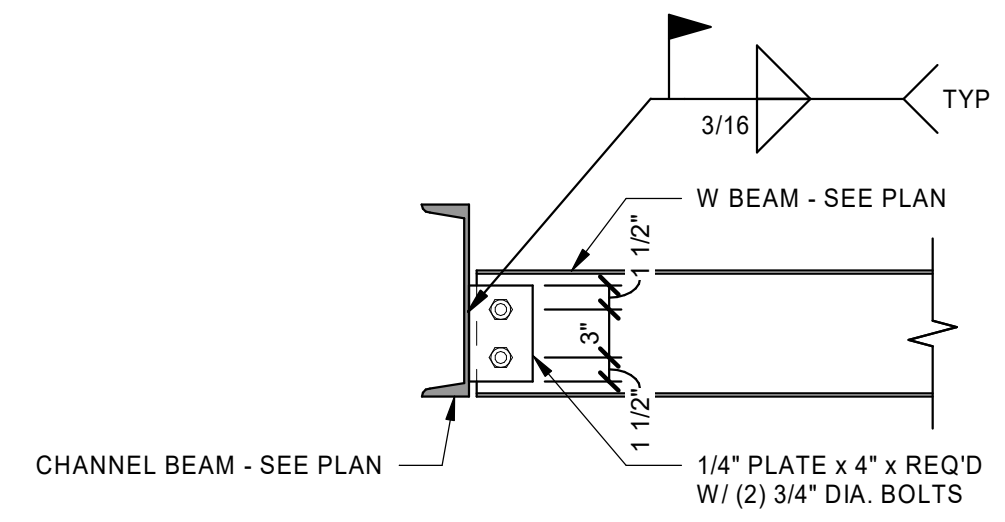
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DETAIL
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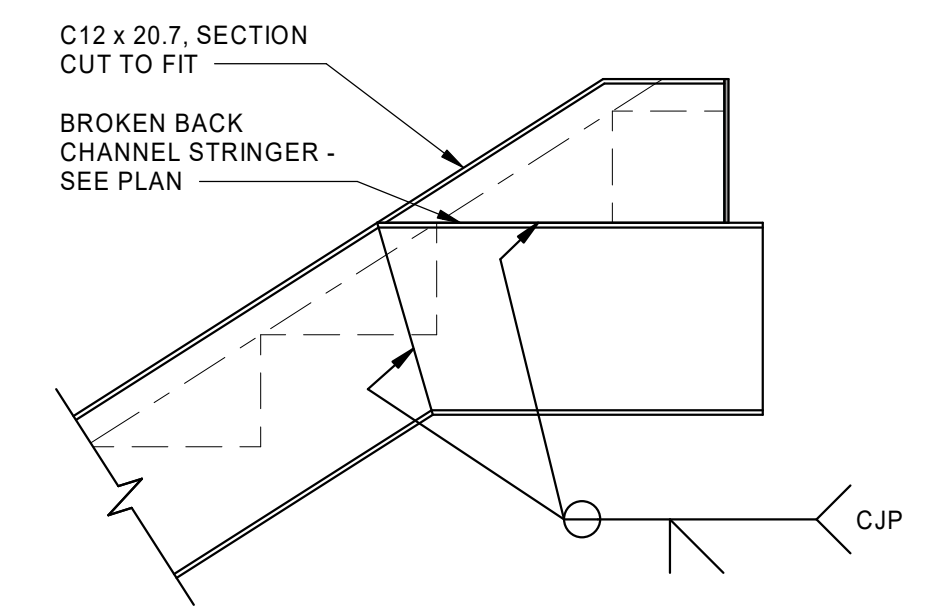
2
S240

NOTE: SLAB NOT SHOWN FOR CLARITY



DETAIL
SCALE: NONE

3
S240



TYP. STRINGER TOP CONNECTION
SCALE: NONE

4
S240



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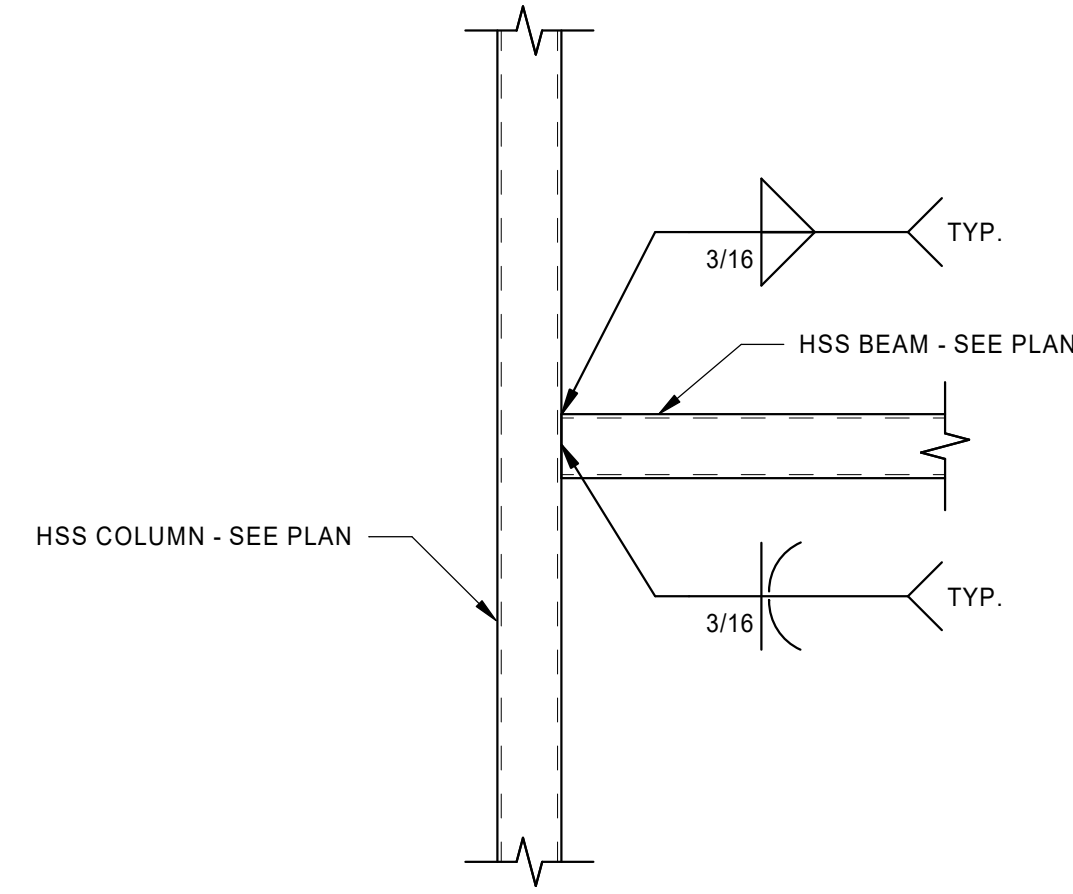
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0	PERMIT SET	05/29/2023	

Designed by:	Submitted:	REV:
NGW	05 FEB 2024	0
Drawn by:	File:	
JCP		
Reviewed by:	Scale:	
DOC	1" = 1'-0"	
Submitted by:	Project Number:	
Approver	23049	

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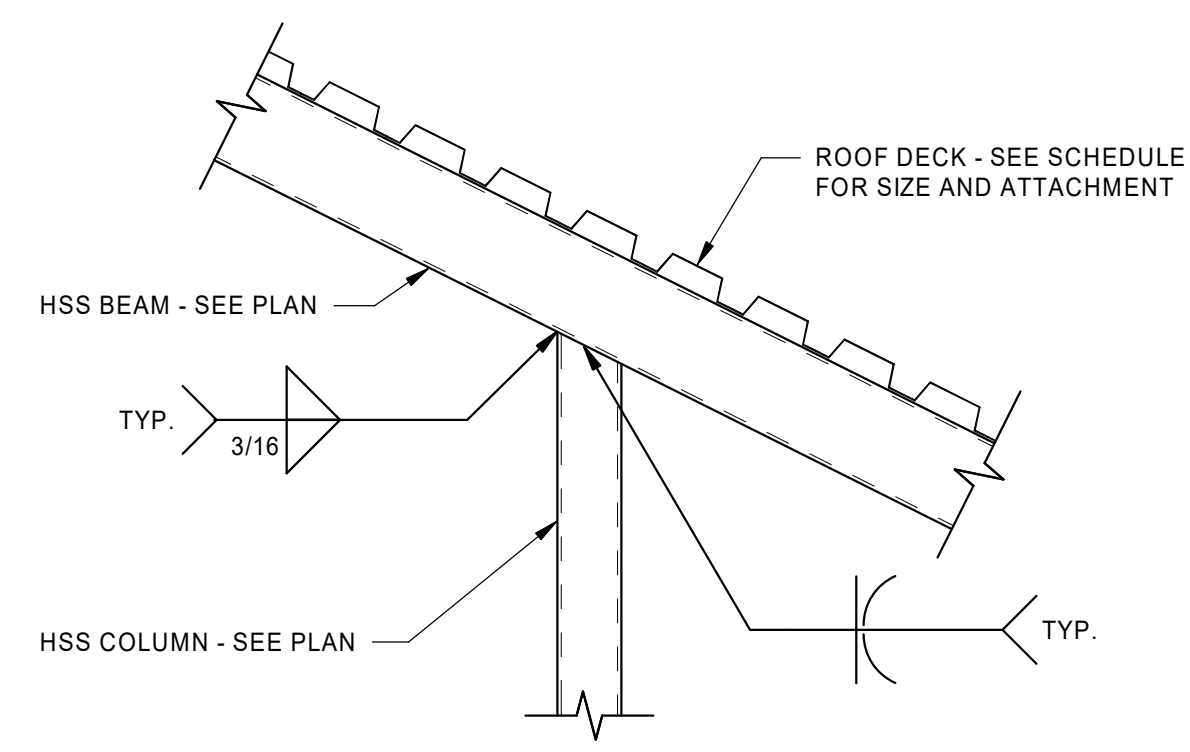
STAIR DETAILS

SHEET NUMBER
S240



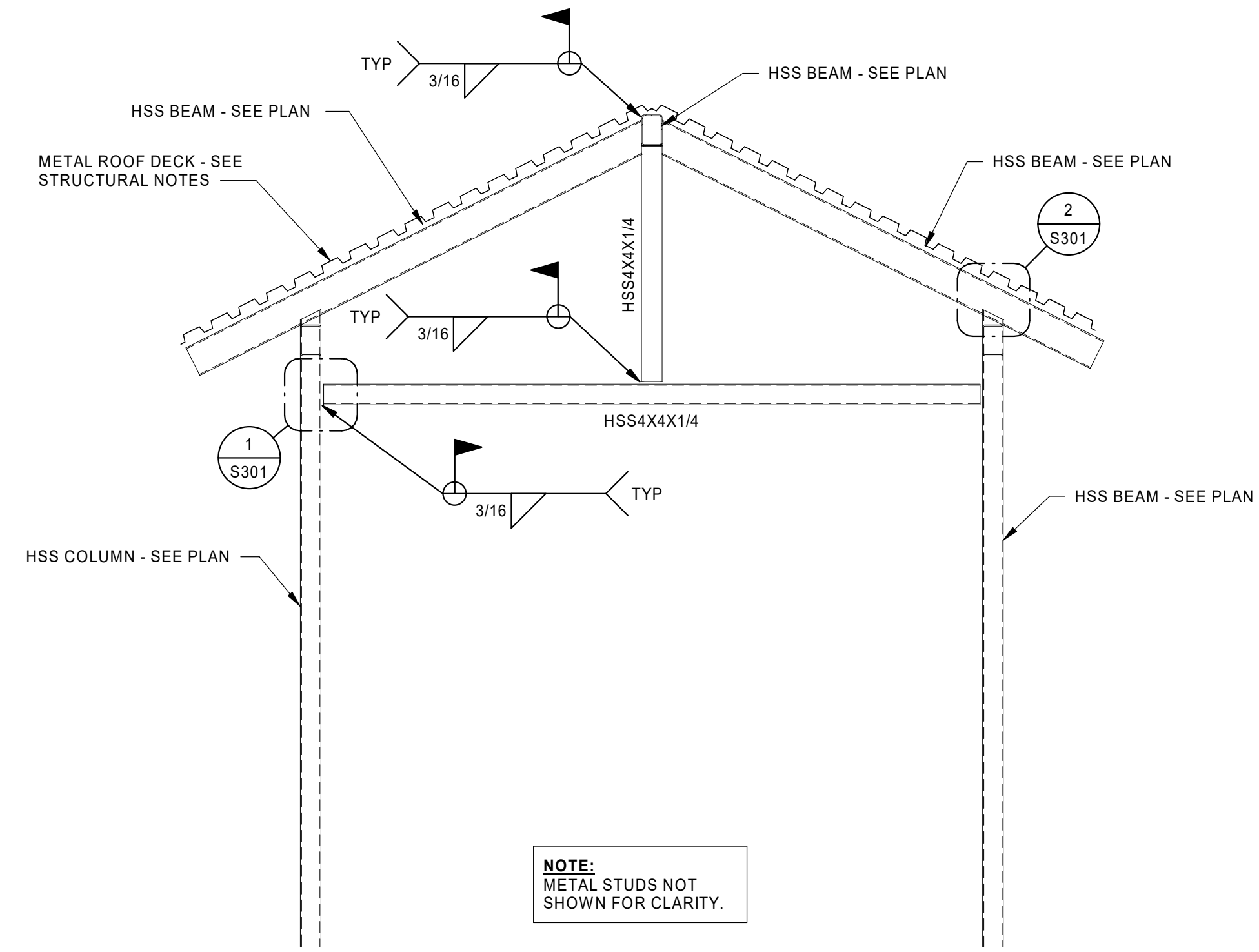
DETAIL
SCALE: NONE

1
S301



DETAIL
SCALE: NONE

2
S301



ELEVATION
SCALE: 1/2" = 1'-0"

A
S301



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JCP		
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DOC	As indicated	
Submitted by:	Project Number:	
Approver	23049	

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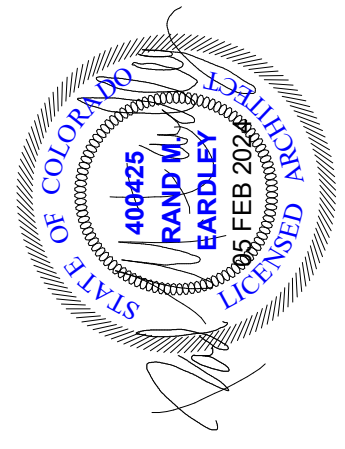
ELEVATION

SHEET NUMBER
S301

RCH VALLEY

875 VALLEY ST.

COLORADO SPRINGS, CO 80915



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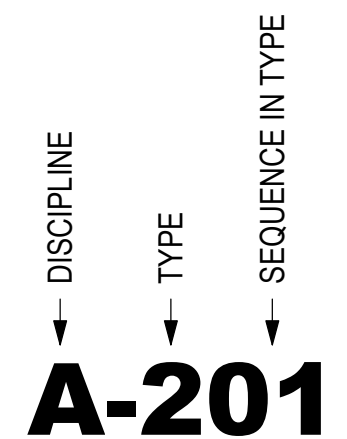


SOUTHWEST PERSPECTIVE

DEFERRED SUBMITTALS
 FIRE SUPPRESSION SYSTEM

APPLICABLE CODES:
 2017 REGIONAL BUILDING CODE
 BUILDING - 2015 IBC
 MECHANICAL - 2015 IMC
 PLUMBING - 2018 IPC
 ELECTRICAL - 2020 NEC
 ENERGY CODE - 2015 IECC

SHEET NUMBER KEY



SHEET INDEX

Sheet Number	Description
GENERAL	
G-001	COVER SHEET
G-002	GENERAL NOTES, SITE LOCATION, SYMBOLS, ABBREVIATIONS
LIFE SAFETY	
LP101	FIRST FLOOR LIFE SAFETY PLAN
CIVIL	
C-1	RCH VALLEY SITE/DEMOLITION PLAN
C-2	UTILITY & GRADING PLAN
DT-1	DETAILS
DT-2	DETAILS
STRUCTURAL	
S001	STRUCTURAL NOTES
S002	STRUCTURAL NOTES
S010	SCHEDULES
S011	SCHEDULES
S012	SCHEDULES
S013	SCHEDULES
S101	FOOTING AND FOUNDATION PLAN
S102	FLOOR FRAMING PLAN
S103	ROOF FRAMING PLAN
S201	TYPICAL DETAILS
S210	FRAMING DETAILS
S220	METAL STUD DETAILS
S230	METAL STUD DETAILS
S240	STAIR DETAILS
S301	ELEVATION

SHEET INDEX

Sheet Number	Description
ARCHITECTURAL	
AD101	FIRST FLOOR DEMOLITION PLAN
AD102	SECOND FLOOR DEMOLITION PLAN
A-101	FIRST FLOOR PLAN
A-102	SECOND FLOOR PLAN
A-103	ROOF PLAN
A-201	EXTERIOR ELEVATIONS
A-202	EXTERIOR ELEVATIONS
A-301	BUILDING SECTIONS
A-302	EXTERIOR WALL SECTIONS
A-303	EXTERIOR WALL SECTIONS
A-304	INTERIOR WALL SECTIONS
A-401	ENLARGED PLANS AND INTERIOR ELEVATIONS
A-402	ENLARGED PLANS AND INTERIOR ELEVATIONS
A-501	ARCHITECTURAL DETAILS
A-601	SCHEDULES
A-701	FIRST FLOOR REFLECTED CEILING PLAN
A-702	SECOND FLOOR REFLECTED CEILING PLAN
MECHANICAL	
ME001	MECHANICAL COVER SHEET
ME501	MECHANICAL DETAILS
ME601	MECHANICAL SCHEDULES
MD101	LEVEL 1 MECHANICAL DEMO PLAN
MD102	LEVEL 2 MECHANICAL DEMO PLAN
MH101	LEVEL 1 MECHANICAL PLAN
MH102	LEVEL 2 MECHANICAL PLAN
MZ101	LEVEL 1 MECHANICAL ZONING PLAN
MZ102	LEVEL 2 MECHANICAL ZONING PLAN

SHEET INDEX

Sheet Number	Description
PLUMBING	
PE001	PLUMBING COVER SHEET
PE501	PLUMBING DETAILS
PE502	PLUMBING DETAILS
PE601	PLUMBING SCHEDULES
PD101	LEVEL 1 PLUMBING DEMO PLAN
PD102	LEVEL 2 PLUMBING DEMO PLAN
PL101	LEVEL 1 PLUMBING PLAN -DWV
PL102	LEVEL 2 PLUMBING PLAN -DWV
PL103	ROOF PLUMBING PLAN - DWV
PL104	LEVEL 1 PLUMBING PLAN - WATER
PL105	LEVEL 2 PLUMBING PLAN - WATER
ELECTRICAL	
E001	ELECTRICAL SYMBOLS AND NOTES
E100	SITE SYMBOLS AND NOTES
E102	TYPICAL DETAILS
E103	SITE PHOTOMETRIC
E311	FIRST FLOOR POWER PLAN
E312	SECOND FLOOR POWER PLAN
E370	POWER SCHEDULES
E380	ONE-LINE DIAGRAM
E411	FIRST FLOOR SYSTEMS PLAN
E412	SECOND FLOOR SYSTEMS PLAN
ED100	FIRST FLOOR DEMOLITION PLAN
ED101	SECOND FLOOR DEMOLITION PLAN
E211	FIRST FLOOR LIGHTING PLAN
E212	SECOND FLOOR LIGHTING PLAN
E280	LIGHTING ELEVATION
AUDIO VISUAL / SECURITY	
T002	LOW-VOLTAGE SYMBOLS AND NOTES
T200	AUDIOVISUAL SYMBOLS AND NOTES
T270	AUDIOVISUAL SCHEDULES
T500	DATA NETWORKS SYMBOLS AND NOTES
T570	DATA NETWORKS SYMBOLS AND NOTES
T600	SECURITY SYMBOLS AND NOTES
T670	SECURITY SCHEDULES

REV.	Submitted:	File:	Scale:	Project Number:
	05 FEB 2024		1 1/2" = 1'-0"	

Designed by: RME
 Drawn by: WAR
 Reviewed by: JTP
 Submitted by:

SHEET NUMBER
G-001

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COVER SHEET

ABBREVIATIONS/ACRONYMS

Table with 4 columns listing abbreviations and their corresponding full names. Includes items like A.B. anchor bolt, A/C air conditioning, and MIN minimum.

STANDARD SYMBOLS

Table defining symbols for ROOM DESIGNATION, DOOR DESIGNATION, WINDOW DESIGNATION, ELEVATION, NORTH ARROW, DETAIL, DRAWING TITLE, REVISION DESIGNATION, and GRID HEAD.

LINE TYPES

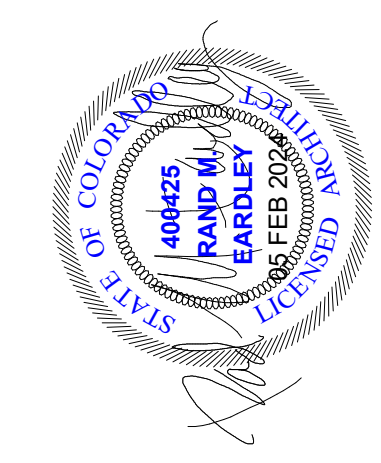
Table defining line types for MATCH, PROPERTY, GRID, HIDDEN, REMOVAL, and OVERHEAD.

ARCHITECTURAL MATERIALS

Table defining architectural materials with corresponding hatching patterns: STEEL STUD, GYPSUM BOARD CEILING / WALL, LAY-IN ACOUSTICAL CEILING, CONCRETE, PLYWOOD (SECTION), MASONRY WALL.

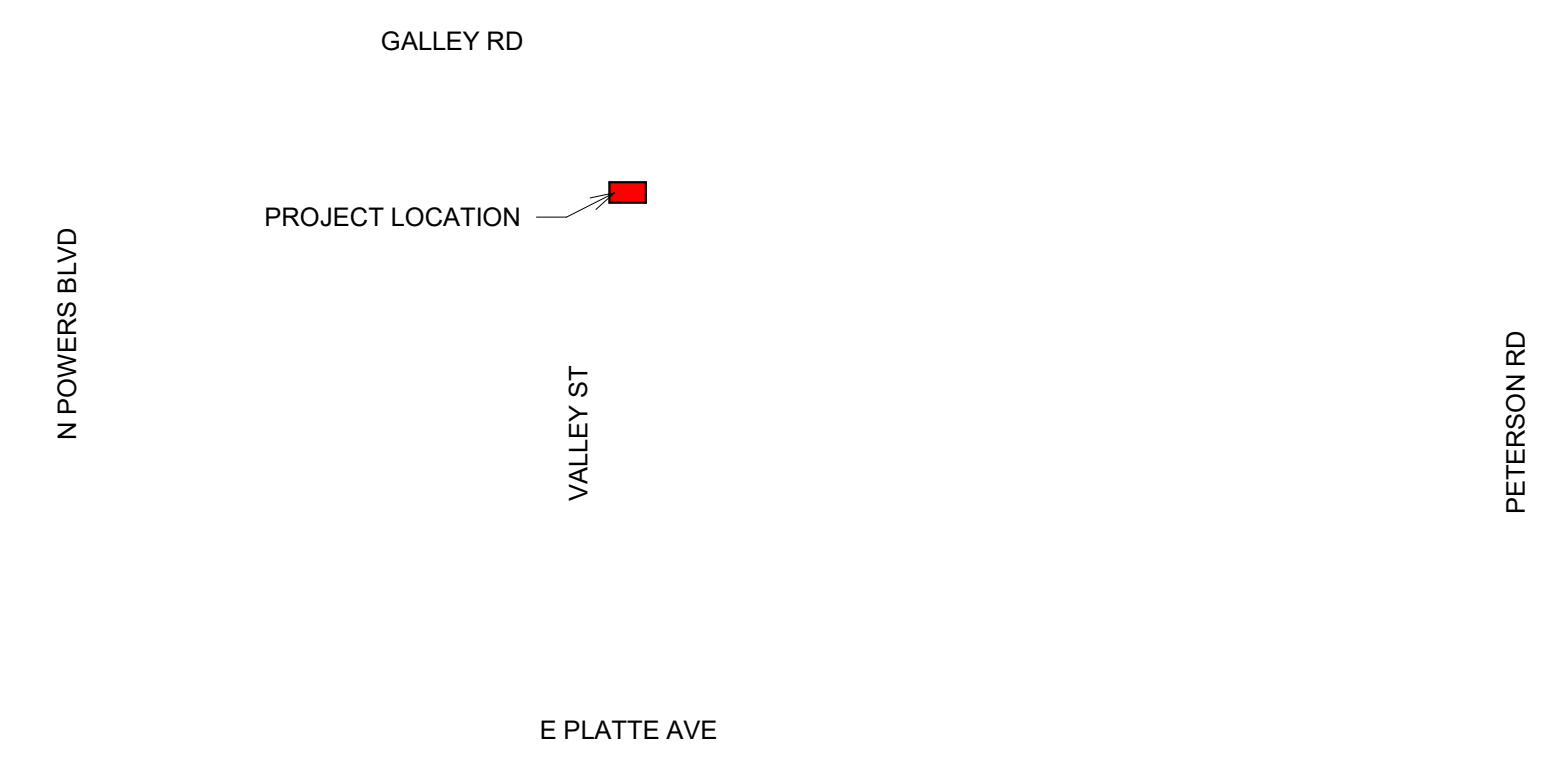
GENERAL NOTES

- 7 numbered notes detailing compliance with building codes, coordination of work, safety, and review requirements.



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Revision table with columns for Rev., Description, Date, and Apr. Includes fields for Submitted by, Date, File, Scale, Project Number.



1 SITE LOCATION PLAN
6" = 1'-0"

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KEYED NOTES

- 21.02 SURFACE MOUNTED FIRE EXTINGUISHER CABINET WITH 10lb TYPE A-B-C EXTINGUISHER
- 21.03 RECESSED FIRE EXTINGUISHER CABINET WITH 10lb TYPE A-B-C EXTINGUISHER
- 21.04 EXISTING FIRE RISER TO REMAIN

NOTE:
THE SPRINKLER HEADS FOR THE FIRE SUPPRESSION SYSTEM ARE NOT SHOWN AS THEY ARE TO BE PROVIDED AS A DEFERRED SUBMITTAL.

BUILDING CODE ANALYSIS

RCH Valley Remodel
IBC 2015

Occupancy Classifications:
B Business - International Building Code (IBC 304.1)
F-2 Low-Hazard Factory Industrial - International Building Code (IBC 306.3)

Non-Separated Occupancies: (IBC 508.2.4)

Type of Construction: V-B

Allowable Area Calculations
Base allowable area per story (IBC Table 506.2): B 27,000 s.f. F-2 39,000 s.f.

Actual Areas	B	F-2
First Floor Area:	2,556 s.f.	3,504 s.f.
Second Floor Area:	2,580 s.f.	3,504 s.f.
Total Building Area:	5,136 s.f.	3,504 s.f.

$5,136 / 27,000 + 3,504 / 39,000 = 0.19 + 0.09 = 0.28 < 1$ **OK**

Building Height
Allowable (IBC Tables 504.3 / 504.4): B 60 feet / 3 stories F-2 60 feet / 3 stories
Actual Building Height: 27 ft 2 in / 2 stories 27 ft 2 in / 1 stories **OK**

Type of Construction - V-B (IBC 602.5)
Required Fire-Resistive Rating for Building Elements (Hours) - (IBC Table 601)

Structural Frame	Bearing Walls	Non-bearing walls	Floor Construction	Roof Construction
0	0 (fire separation distance on all sides > 30', IBC Table 602)	0	0	0
Exterior 0	Exterior 0	Exterior 0	Exterior 0	Exterior 0
Interior 0	Interior 0	Interior 0	Interior 0	Interior 0

Occupant Load Calculations (IBC Table 1004.1.2) - First & Second Floor
Assembly without fixed seats: 222 gross sq. ft. / 15 sq. ft. per occupant = 15 occupants TOTAL
Business: 4,914 gross sq. ft. / 100 sq. ft. per occupant = 50 occupants TOTAL
Industrial: 3,504 gross sq. ft. / 100 sq. ft. per occupant = 36 occupants TOTAL
TOTAL = 101 occupants TOTAL

The building is equipped throughout with an automatic fire suppression system meeting the requirements of IBC 903.3.1.1.

Two exit (minimum) are required from the first floor (IBC 1007.1):
 • The building is equipped with **four exits** **OK**

The minimum separation distance between exits shall be not less than one-third of the maximum overall diagonal dimension of the building (IBC 1007.1.1)
 • First Floor = $133' / 3 = 45'$ Actual separation = **108 feet > 45 feet** **OK**

The maximum allowable travel distance to an exit on the first floor is 300 feet (IBC Table 1017.2).
 The maximum allowable travel distance to the exit on the second floor is 100 feet (IBC Table 1006.2.1).
 The maximum actual exit access travel distance in the building is **99 feet 9 inches < 100 feet** **OK**
 The maximum allowable common path of egress is 100 feet for B occupancy and 75 feet for F occupancy (IBC Table 1006.2.1).
 The maximum actual common path of egress is **26 feet 0 inches** on the first floor. The second floor does not require a common path of egress as it only requires one exit. 26 feet < 75/100 **OK**

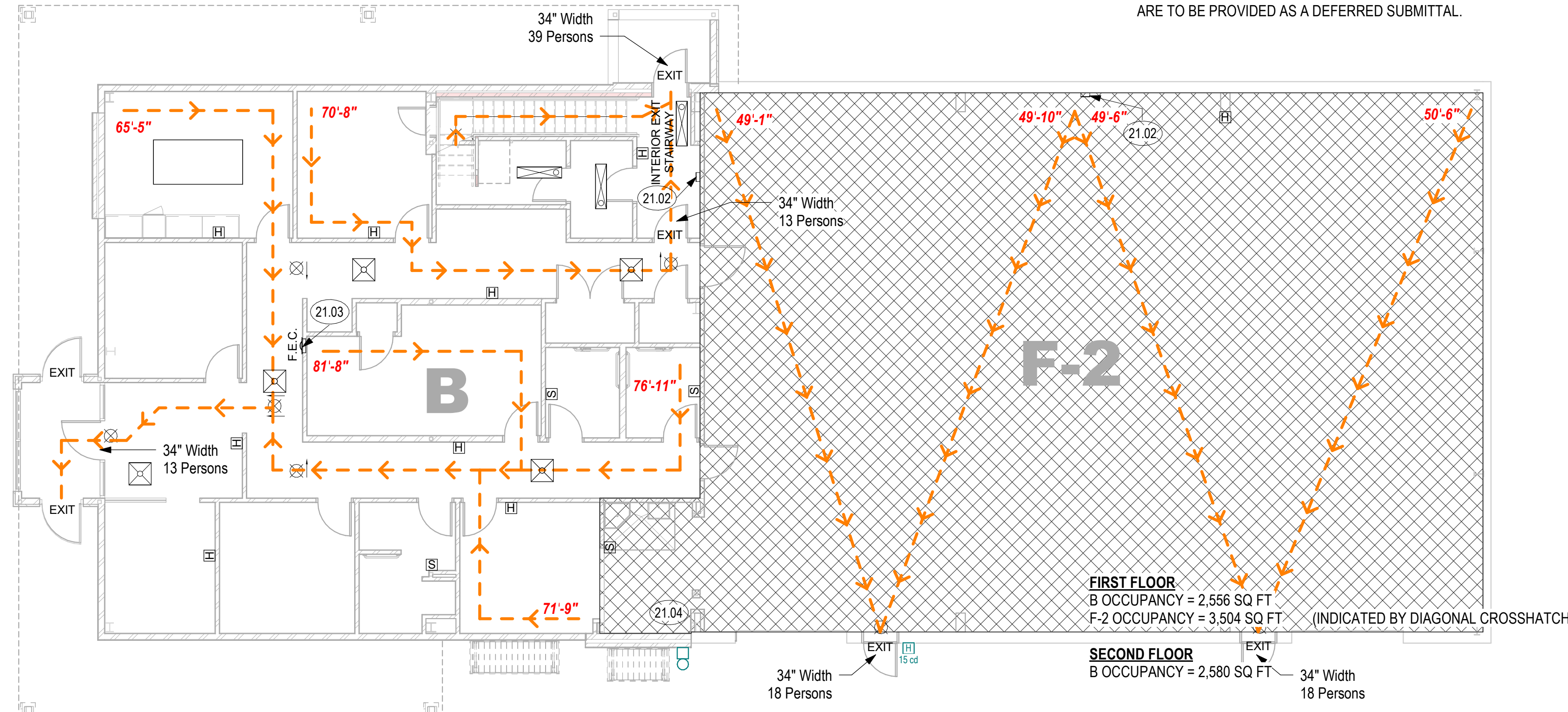
Exit access corridors are not required to be separated from use areas (IBC Table 1020.1).

(IBC Table 2902.1)

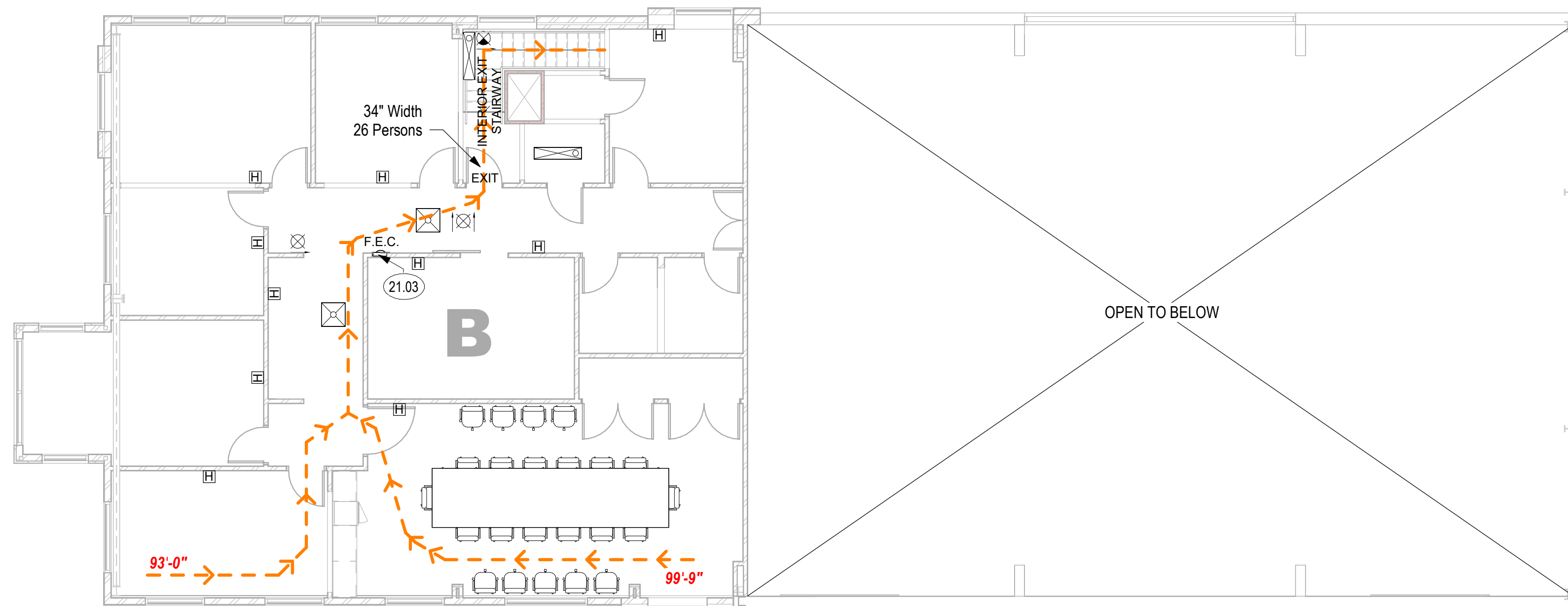
Plumbing Fixtures	Bus.	Ind.	Total	Actual	OK
Toilets*	3	1	4	5	OK
Lavatories	3	1	4	5	OK
Drinking Fountains	1	1	1	3	OK
Service Sink	1	1	1	2	OK

LIFE SAFETY PLAN LEGEND

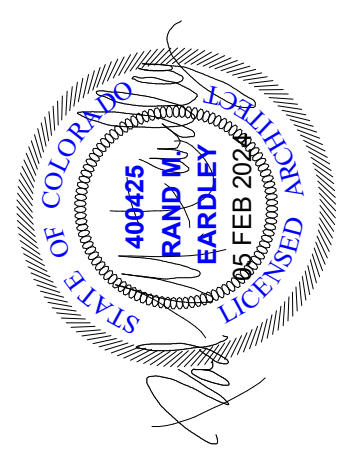
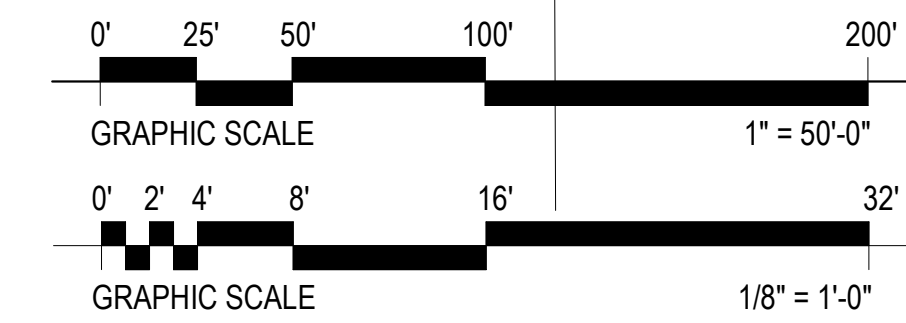
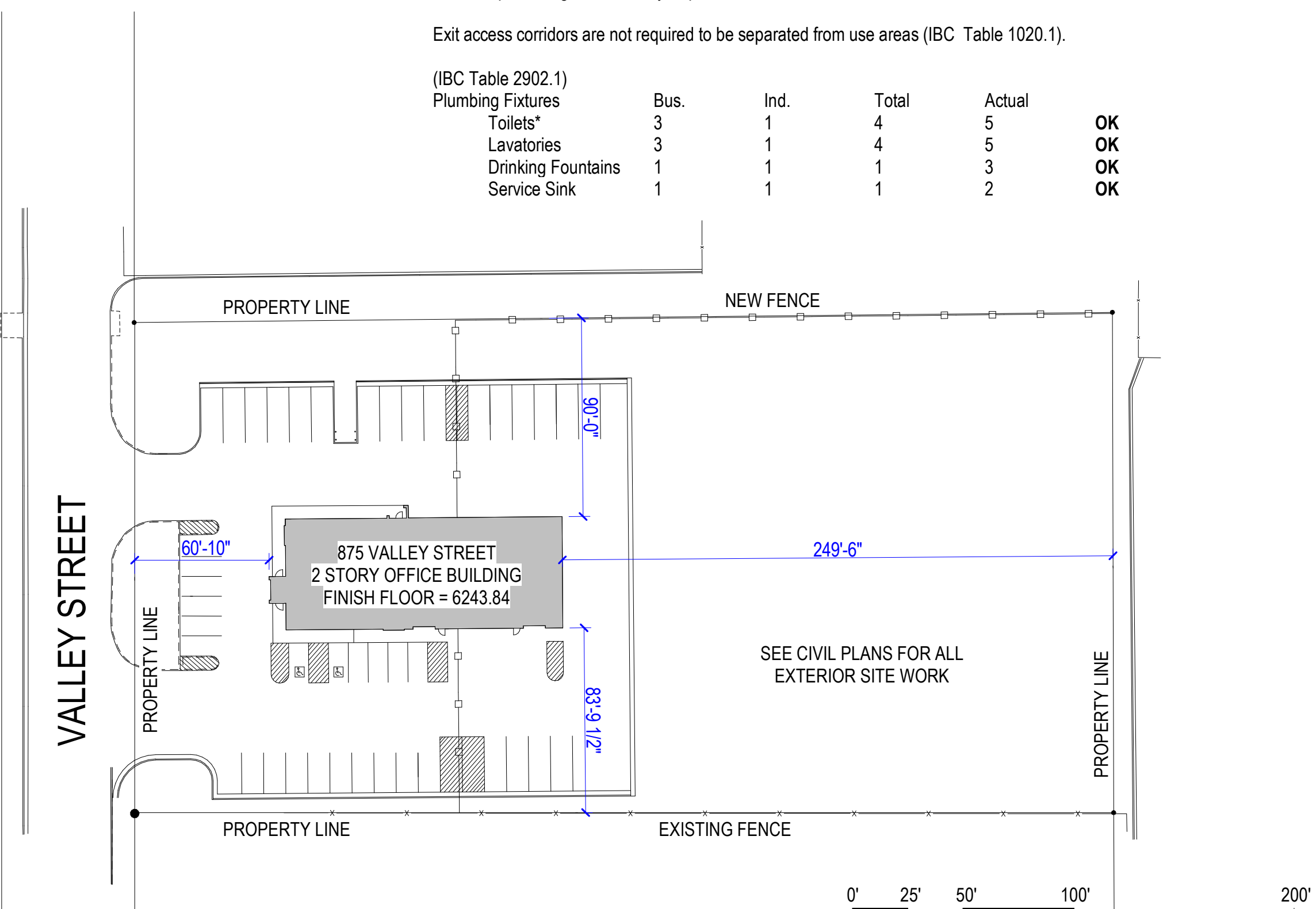
- EXIT SIGN
- LIFE SAFETY EGRESS PATH
- FIRE EXTINGUISHER CABINET
- FIRE ALARM, STROBE
- FIRE ALARM, HORN - STROBE
- FIRE ALARM PULL STATION
- STRIP EMERGENCY LIGHT FIXTURE
- 2' x 2' EMERGENCY LIGHT FIXTURE
- 1-HOUR FIRE RATED WALL



1 1ST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"



2 2ND FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"



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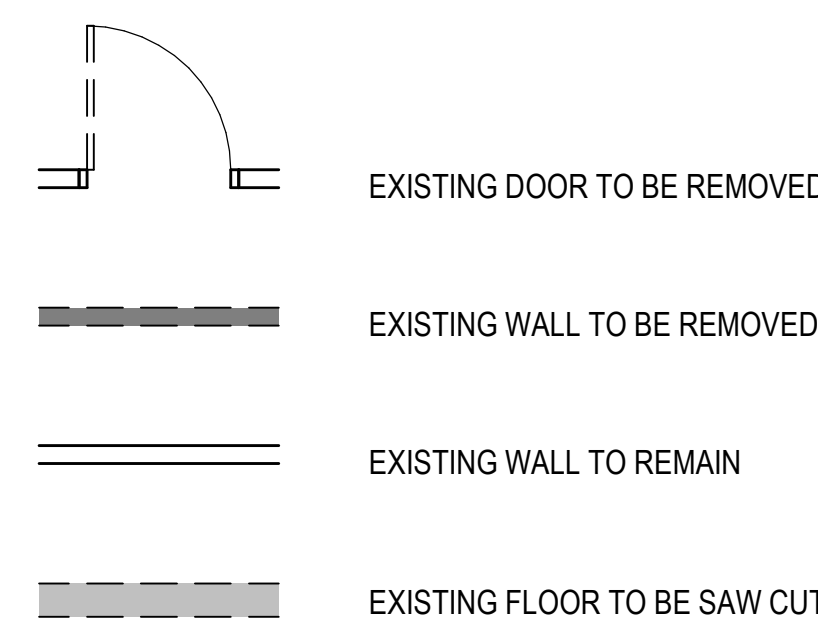
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	05 FEB 2024		As indicated	

RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

FIRST FLOOR LIFE SAFETY PLAN

SHEET NUMBER
LP101

DEMOLITION LEGEND

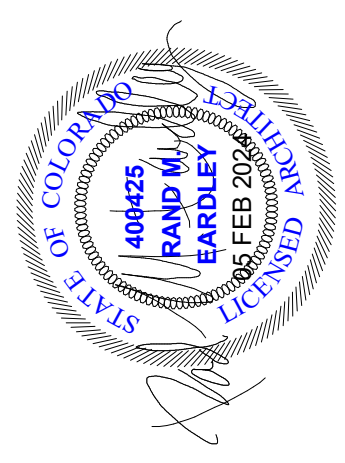


KEYED NOTES

- 02.02 EXISTING WALL TO REMAIN
- 02.03 EXISTING DOOR TO REMAIN
- 02.18 EXISTING COLUMN TO REMAIN
- 02.26 EXISTING COLUMNS TO REMAIN
- 02.50 REMOVE EXISTING WINDOW
- 02.51 REMOVE EXISTING COLUMN
- 02.52 REMOVE EXISTING STAIRS, RAILINGS, BALUSTERS AND POSTS
- 02.53 REMOVE EXISTING WALL SHOWN DASHED
- 02.68 REMOVE EXISTING DOOR, FRAME AND HARDWARE
- 02.91 SAW CUT AND REMOVE EXISTING CONCRETE/EXCAVATE FOR NEW PLUMBING LINES AND FOOTINGS, SHOWN SHADED, SEE PLUMBING AND STRUCTURAL DRAWINGS
- 21.04 EXISTING FIRE RISER TO REMAIN

DECONSTRUCTION PLAN GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS, AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE DOCUMENTED PRIOR TO COMMENCING DEMOLITION.
2. WHERE DEMOLITION OF PARTITION OCCURS ALL ITEMS IN AND ON PARTITION ARE TO BE REMOVED, UNLESS NOTED OTHERWISE. WALL MOUNTED EQUIPMENT THE FACILITY WISHES TO KEEP MUST BE REMOVED PRIOR TO DEMOLITION. ALL OTHER ITEMS ARE TO BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
3. SEE MECHANICAL, ELECTRICAL, AND/OR PLUMBING DRAWINGS WHEN DEMOLITION REQUIRES REMOVAL OR TERMINATION OF SUCH UTILITIES.
4. CONTRACTOR SHALL ABATE ALL ASBESTOS AND LEAD SHIELDING CONTAINING MATERIAL, LEAD BASE PAINT, AND PCB ITEMS PRIOR TO ALL OTHER DEMOLITION. REFER TO ABATEMENT SPECIFICATIONS FOR LOCATIONS OF HAZARDOUS CONTAINING MATERIALS.
5. PROTECT PREVIOUS CONSTRUCTION FROM DAMAGE.
6. DASHED LINES INDICATE ITEMS BEING DEMOLISHED, UNLESS NOTED OTHERWISE.



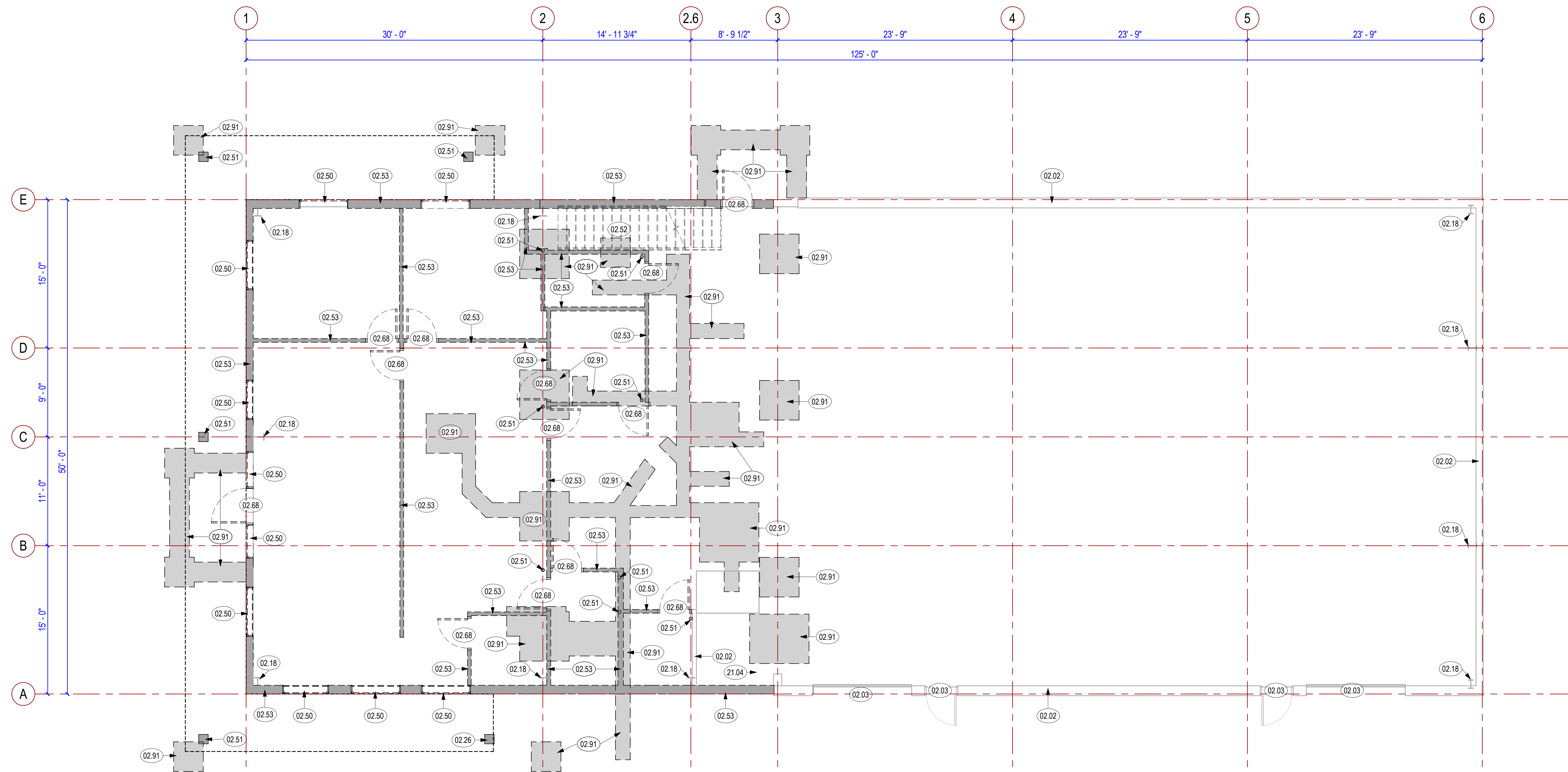
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	05 FEB 2024	RME	WAR	JTP	
	File:				
	Scale:				
	As indicated				
	Project Number:				
	Project Number:				

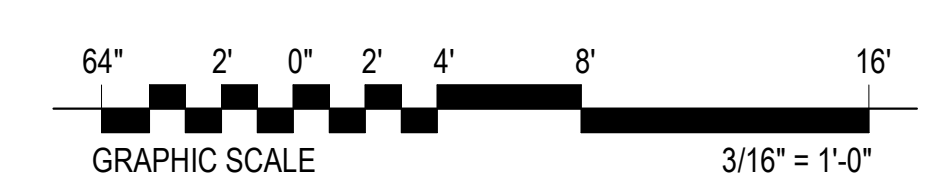
RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

FIRST FLOOR DEMOLITION PLAN

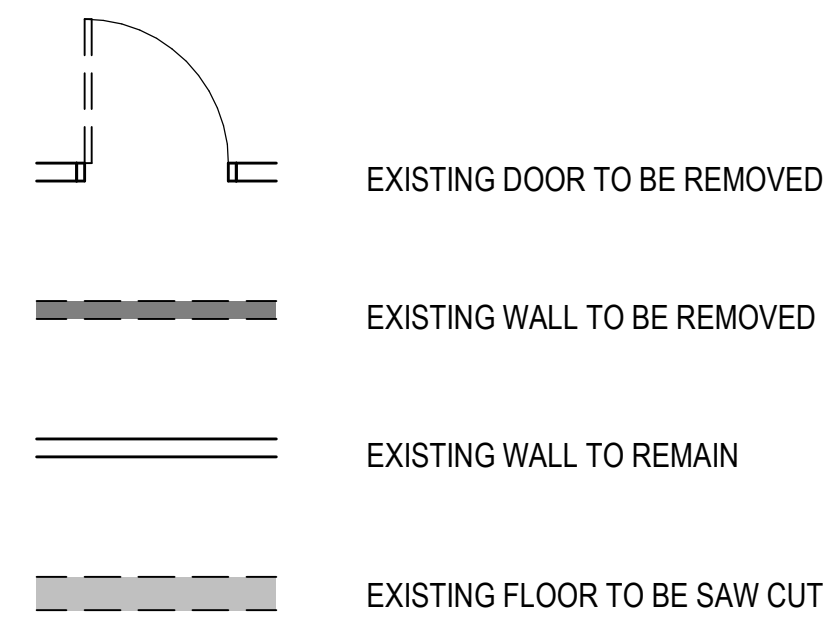
SHEET NUMBER
AD101



1 1ST FLOOR DEMOLITION PLAN
 3/16" = 1'-0"



DEMOLITION LEGEND

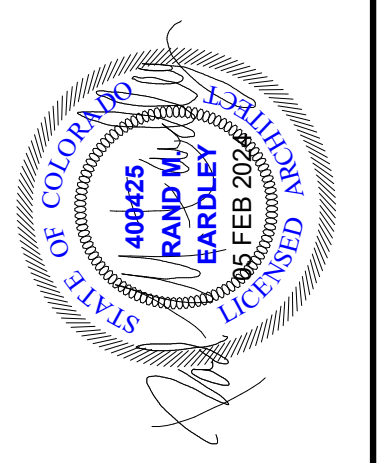


KEYED NOTES

- 02.02 EXISTING WALL TO REMAIN
- 02.11 EXISTING FLOOR AND FRAMING TO REMAIN
- 02.18 EXISTING COLUMN TO REMAIN
- 02.50 REMOVE EXISTING WINDOW
- 02.52 REMOVE EXISTING STAIRS, RAILINGS, BALUSTERS AND POSTS
- 02.53 REMOVE EXISTING WALL SHOWN DASHED
- 02.54 REMOVE EXISTING FLOOR AND FRAMING, SEE STRUCTURAL
- 02.56 REMOVE EXISTING GUTTERS AND DOWNSPOUTS
- 02.60 REMOVE EXISTING ROOF FRAMING
- 02.62 REMOVE EXISTING ROOFING AND MODIFY ROOF FRAMING, SEE STRUCTURAL
- 02.81 CUT OPENING IN EXISTING WALL FOR NEW WINDOW, SEE FLOOR PLAN AND WINDOW SCHEDULE FOR SIZE AND LOCATION, VERIFY LOCATION AND SIZE BEFORE DEMOLITION OCCURES

DECONSTRUCTION PLAN GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS, AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE DOCUMENTED PRIOR TO COMMENCING DEMOLITION.
2. WHERE DEMOLITION OF PARTITION OCCURS ALL ITEMS IN AND ON PARTITION ARE TO BE REMOVED, UNLESS NOTED OTHERWISE. WALL MOUNTED EQUIPMENT THE FACILITY WISHES TO KEEP MUST BE REMOVED PRIOR TO DEMOLITION. ALL OTHER ITEMS ARE TO BE DISPOSED OF BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
3. SEE MECHANICAL, ELECTRICAL, AND/OR PLUMBING DRAWINGS WHEN DEMOLITION REQUIRES REMOVAL OR TERMINATION OF SUCH UTILITIES.
4. CONTRACTOR SHALL ABATE ALL ASBESTOS AND LEAD SHIELDING CONTAINING MATERIAL, LEAD BASE PAINT, AND PCB ITEMS PRIOR TO ALL OTHER DEMOLITION. REFER TO ABATEMENT SPECIFICATIONS FOR LOCATIONS OF HAZARDOUS CONTAINING MATERIALS.
5. PROTECT PREVIOUS CONSTRUCTION FROM DAMAGE.
6. DASHED LINES INDICATE ITEMS BEING DEMOLISHED. UNLESS NOTED OTHERWISE.



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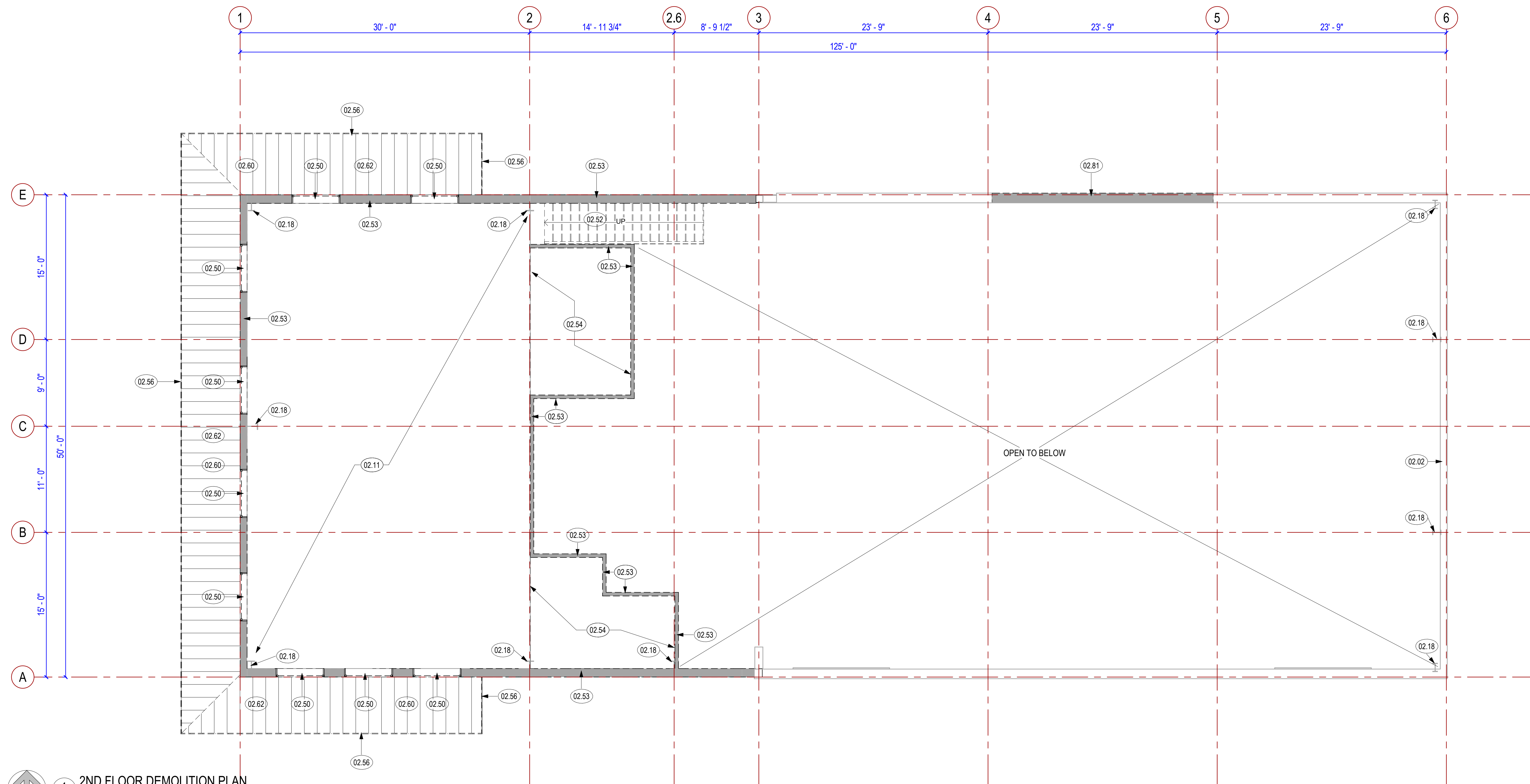
Rev.	Description	Date	Appr.

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Drawn by: WAR	File:	
Reviewed by: JTP	Scale: As indicated	
Submitted by:	Project Number:	

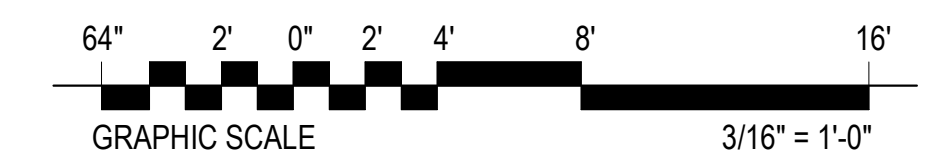
RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

SECOND FLOOR DEMOLITION PLAN

SHEET NUMBER
AD102



1 2ND FLOOR DEMOLITION PLAN
 3/16" = 1'-0"



KEYED NOTES

- 05.20 RISERS ARE REQUIRED TO BE COMPLETELY CLOSED AND MUST SEPERATE THE UNUSED ENCLOSED SPACE BELOW THE STAIR FROM THE INTERIOR EXIT STAIRWAY
- 22.12 MOP SINK, SEE PLUMBING DRAWINGS
- 22.14 UTILITY SINK WITH EYEWASH ATTACHMENT ON FAUCET, SEE PLUMBING DRAWINGS
- 32.03 FENCE, SEE CIVIL DRAWINGS


KEYED NOTES

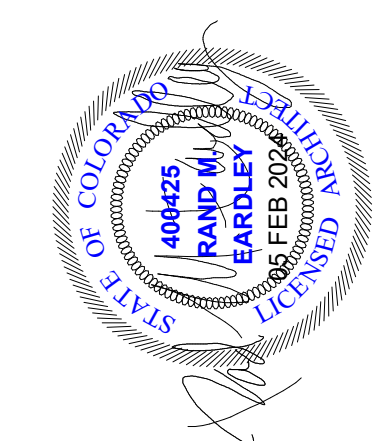
- 01.08 ALIGN FINISH FACE WITH EXISTING FINISH FACE
- 05.10 HANDRAIL SIZE TO BE 1 1/4" TO 2 5/8". HANDRAILS SHALL TERMINATE TO WALLS OR NEWEL POSTS. MAX 4" SPACING BETWEEN BALUSTERS. HANDRAIL IS TO BE PLACED 34" TO 38" ABOVE THE NOSE OF THE TREADS VERTICALLY TO THE TOP RAIL. THEY SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS. THE HANDGRIP PORTION SHALL BE NOT LESS THAN 1 1/4" NOR MORE THAN 2" IN CROSS-SECTIONAL DIMENSION. HANDRAILS PROJECTING FROM A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1 1/2" BETWEEN THE WALL AND THE HANDRAIL
- 05.11 MAXIMUM RISER HEIGHT SHALL BE 7 INCHES. RISER SHALL BE MEASURED VERTICALLY BETWEEN LEADING EDGES OF ADJACENT TREADS. GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH (R311.7.5.1)
- 05.12 MINIMUM TREAD DEPTH SHALL BE 11 INCHES, TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AND AT RIGHT ANGLE TO TREAD'S LEADING EDGE, GREATEST TREAD DEPTH WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED SMALLEST BY MORE THAN 3/8 INCH (R311.7.5.2)
- 05.17 STEEL COLUMN, SEE STRUCTURAL
- 05.18 SLOPE CONCRETE FLOOR TO NEW FLOOR DRAIN, SLOPE TO BE LESS THAN 1/20. COORDINATE SLOPE WITH WITH DRAIN LOCATION

FLOOR PLAN GENERAL NOTES

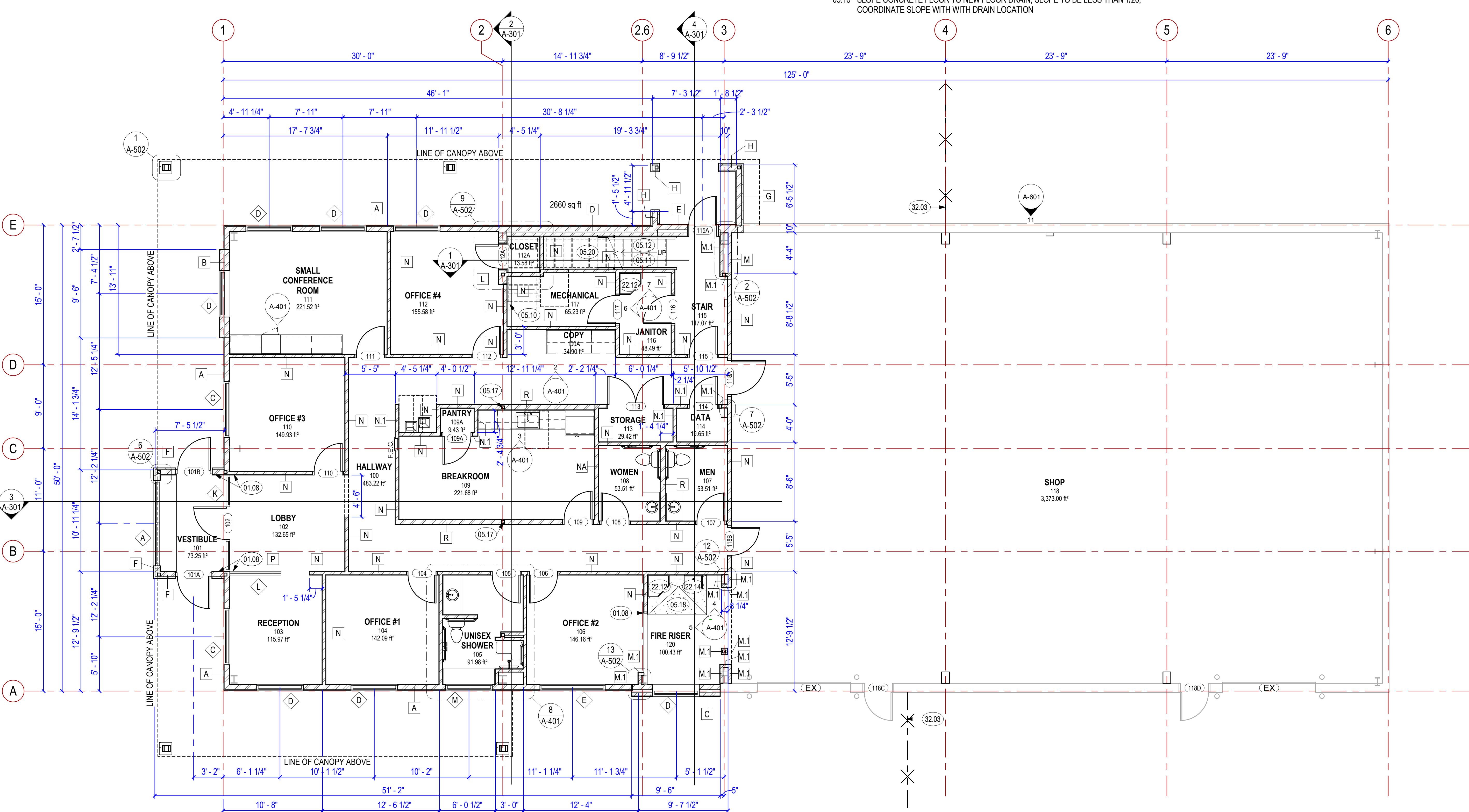
- 1. ALL DIMENSIONS ARE TO FACE OF STUD IN NEW CONSTRUCTION, FACE OF FINISH IN EXISTING.
- 2. ALL FLOOR FINISH CHANGES OCCUR AT CENTERLINE OF DOOR IN CLOSED POSITION, UNLESS NOTED OTHERWISE.
- 3. COORDINATE LOCATIONS OF ALL FLOOR AND ROOF DRAINS WITH PLUMBING PLANS.
- 4. SEE SHEET A-501 FOR BLOCKING DETAILS.

FLOOR PLAN LEGEND

 1-HOUR FIRE RATED WALL



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Drawn by: WAR	File: 	Reviewed by: JTP	Project Number:
Reviewed by: 		Submitted by: 	

RCH Valley
 Real Color Holdings, LLC
 875 Valley St
 Colorado Springs, CO
 80915

FIRST FLOOR PLAN

SHEET NUMBER
A-101

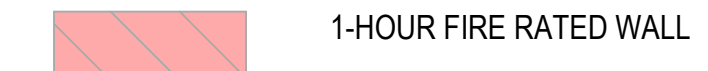
KEYED NOTES

- 05.10 HANDRAIL SIZE TO BE 1 1/4" TO 2 5/8", HANDRAILS SHALL TERMINATE TO WALLS OR NEWEL POSTS. MAX 4" SPACING BETWEEN BALUSTERS. HANDRAIL IS TO BE PLACED 34" TO 38" ABOVE THE NOSE OF THE TREADS VERTICALLY TO THE TOP RAIL. THEY SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS. THE HANDGRIP PORTION SHALL BE NOT LESS THAN 1 1/4" NOR MORE THAN 2" IN CROSS-SECTIONAL DIMENSION. HANDRAILS PROJECTING FROM A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1 1/2" BETWEEN THE WALL AND THE HANDRAIL
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- 05.12 MINIMUM TREAD DEPTH SHALL BE 11 INCHES, TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AND AT RIGHT ANGLE TO TREAD'S LEADING EDGE. GREATEST TREAD DEPTH WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED SMALLEST BY MORE THAN 3/8 INCH (R311.7.5.2)
- 05.14 METAL AWNING; COLOR MIDNIGHT BRONZE
- 05.20 RISERS ARE REQUIRED TO BE COMPLETELY CLOSED AND MUST SEPERATE THE UNUSED ENCLOSED SPACE BELOW THE STAIR FORM THE INTERIOR EXIT STAIRWAY
- 09.15 1/4" CEMENT BOARD TILE BACKING AT FLOOR, SECOND FLOOR ONLY

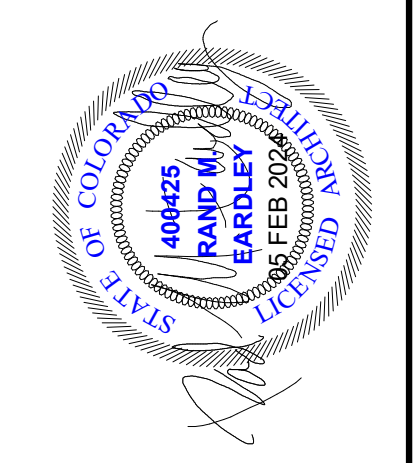
FLOOR PLAN GENERAL NOTES

- 1. ALL DIMENSIONS ARE TO FACE OF STUD IN NEW CONSTRUCTION, FACE OF FINISH IN EXISTING.
- 2. ALL FLOOR FINISH CHANGES OCCUR AT CENTERLINE OF DOOR IN CLOSED POSITION, UNLESS NOTED OTHERWISE.
- 3. COORDINATE LOCATIONS OF ALL FLOOR AND ROOF DRAINS WITH PLUMBING PLANS.
- 4. SEE SHEET A-501 FOR BLOCKING DETAILS.

FLOOR PLAN LEGEND



1-HOUR FIRE RATED WALL



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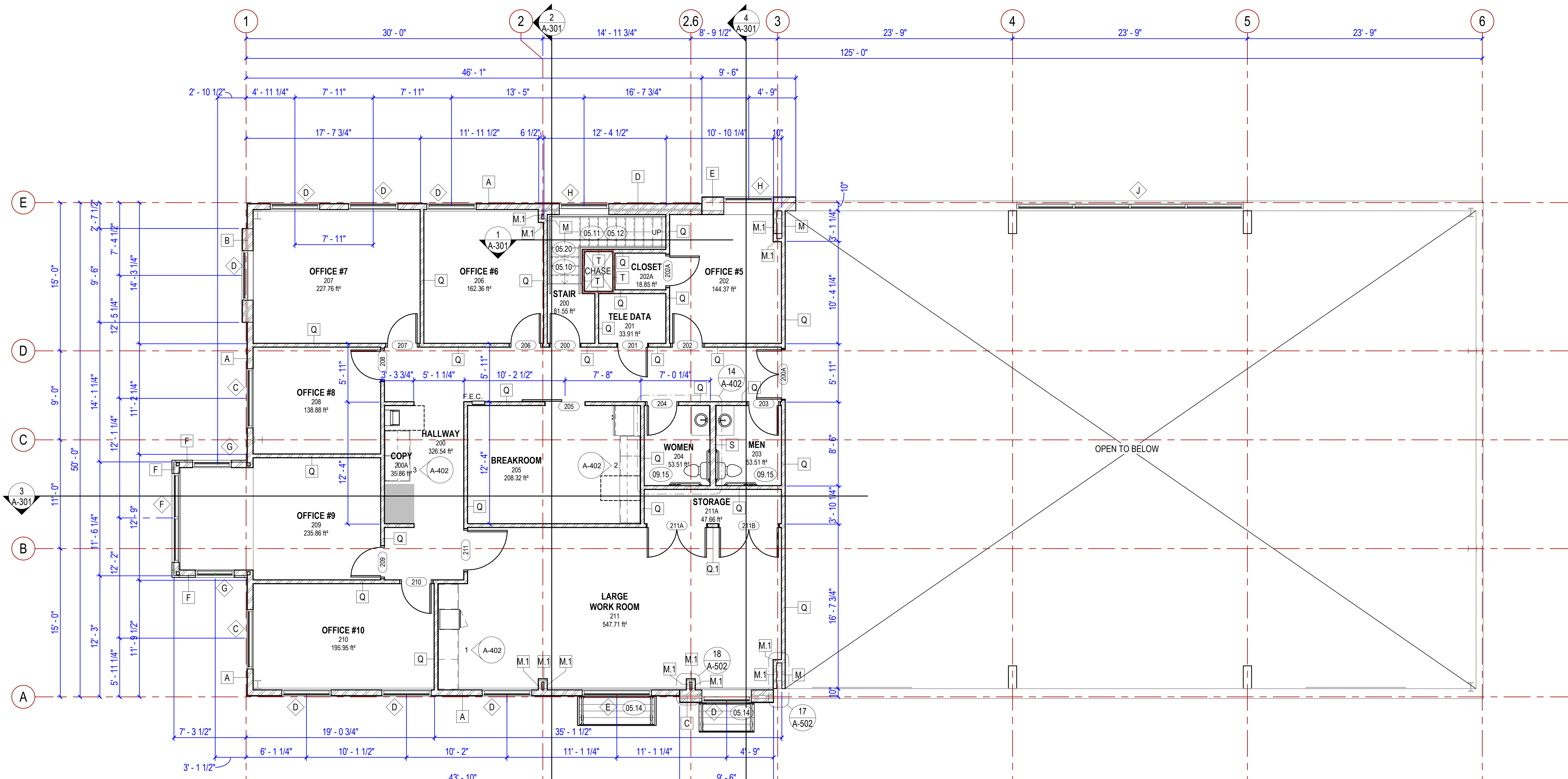
Rev.	Description	Date	Appr.

Designed by:	RME	Submitted:	05 FEB 2024
Drawn by:	WAR	File:	
Reviewed by:	JTP	Scale:	As indicated
Submitted by:		Project Number:	

RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

SECOND FLOOR PLAN

SHEET NUMBER
A-102

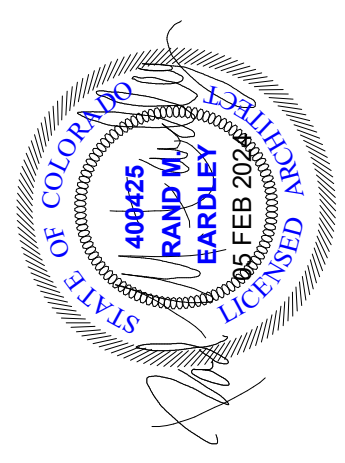


1 2ND FLOOR PLAN
 3/16" = 1'-0"



KEYED NOTES

- 02.07 EXISTING ROOFING TO REMAIN
- 05.14 METAL AWNING; COLOR MIDNIGHT BRONZE
- 07.03 INSTALL W.R. GRACE BITUMINOUS "ICE AND WATER SHIELD" CONTINUOUS FROM EAVE TO WITHIN 6' OF RIDGE
- 07.15 GUTTER; COLOR MIDNIGHT BRONZE
- 07.17 STANDING SEAM METAL ROOFING OVER 301b ROOFING FELTS; COLOR MIDNIGHT BRONZE
- 07.18 METAL FASCIA; COLOR MIDNIGHT BRONZE



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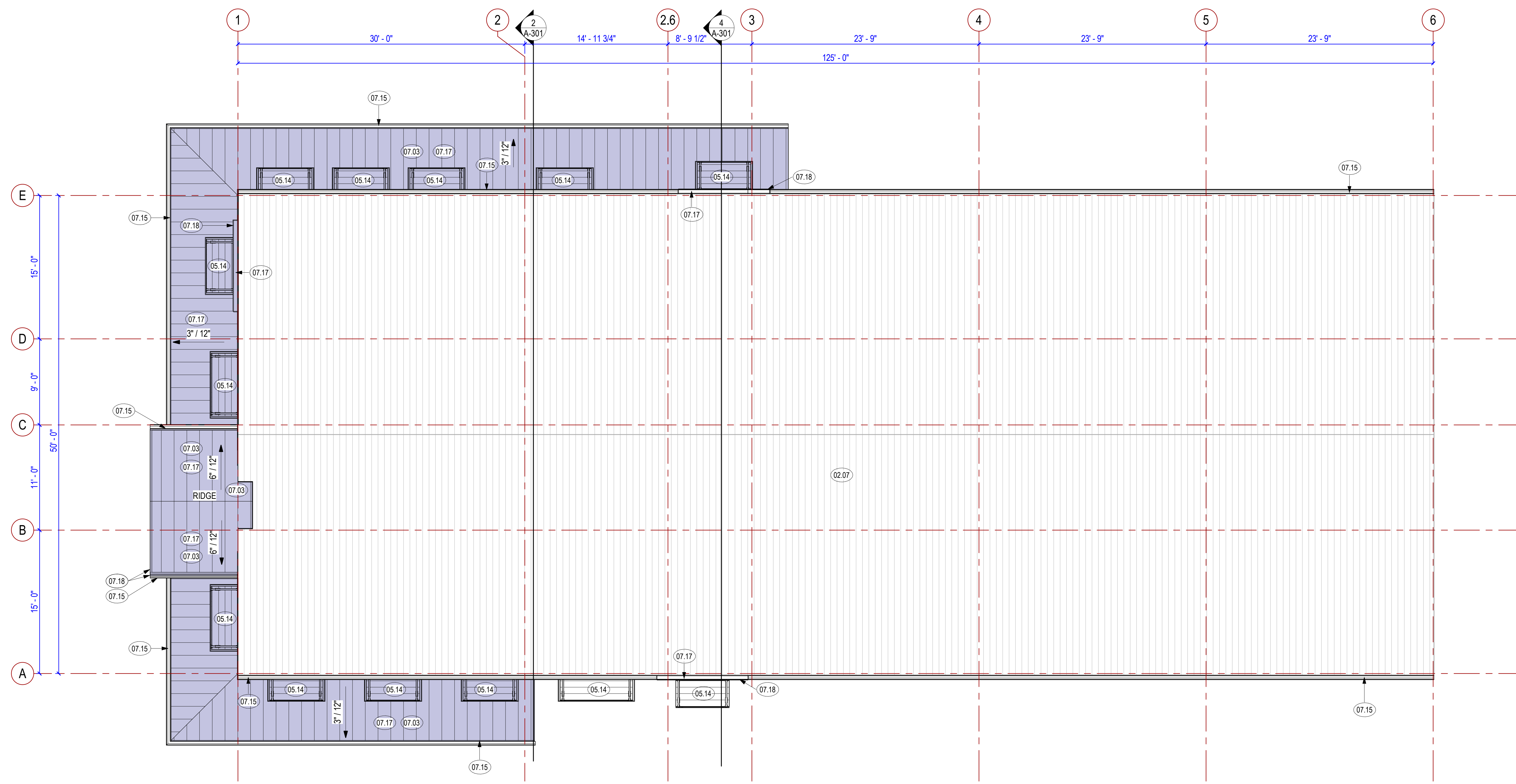
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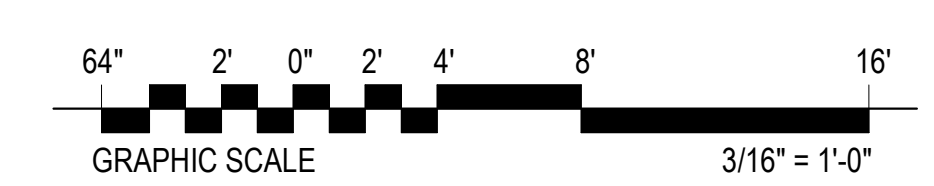
ROOF PLAN

SHEET NUMBER
A-103



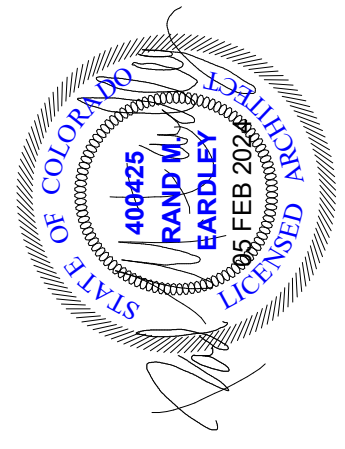
1 ROOF PLAN
 3/16" = 1'-0"

ROOF PLAN LEGEND



KEYED NOTES

- 02.25 EXISTING SIDING TO REMAIN
- 04.01 2" STONE VENEER; COLOR HARRISTONE CHIEF JOSEPH SUMMIT
- 04.03 STONE CAP, SEAL TO POST, TYP.
- 05.14 METAL AWNING; COLOR MIDNIGHT BRONZE
- 07.14 ALUMINUM SOFFIT; COLOR MIDNIGHT BRONZE
- 07.15 GUTTER; COLOR MIDNIGHT BRONZE
- 07.17 STANDING SEAM METAL ROOFING OVER 30lb ROOFING FELTS; COLOR MIDNIGHT BRONZE
- 07.18 METAL FASCIA; COLOR MIDNIGHT BRONZE
- 07.27 EDCO STEEL BOARD AND BATTEN, INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS; COLOR WICKERSTONE
- 07.28 EDCO STEEL HORIZONTAL SIDING, INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS; COLOR CEDARWOOD HD
- 09.12 PAINTED METAL COLUMN SEE STRUCTURAL, COLOR MIDNIGHT BRONZE
- 31.01 FINISH GRADE, SLOPE GRADE AWAY FROM STRUCTURE @ 5% MIN. FOR A MINIMUM DISTANCE OF 10 FEET - CONTINUOUS AT PERIMETER OF STRUCTURE



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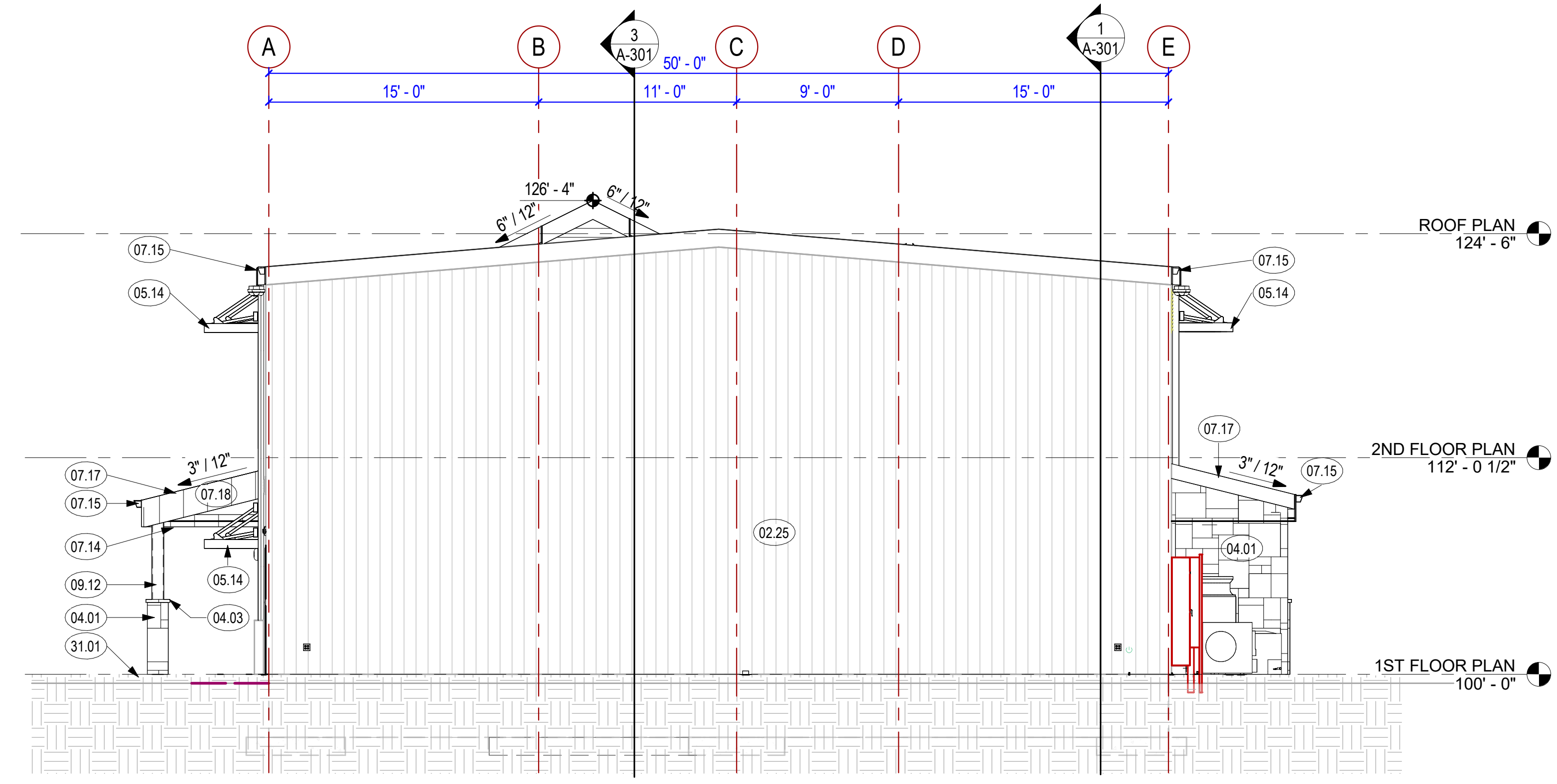
Rev.	Description	Date	Appr.

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Drawn by: WAR	File:	
Reviewed by: JTP	Scale: 3/16" = 1'-0"	
Submitted by:	Project Number:	

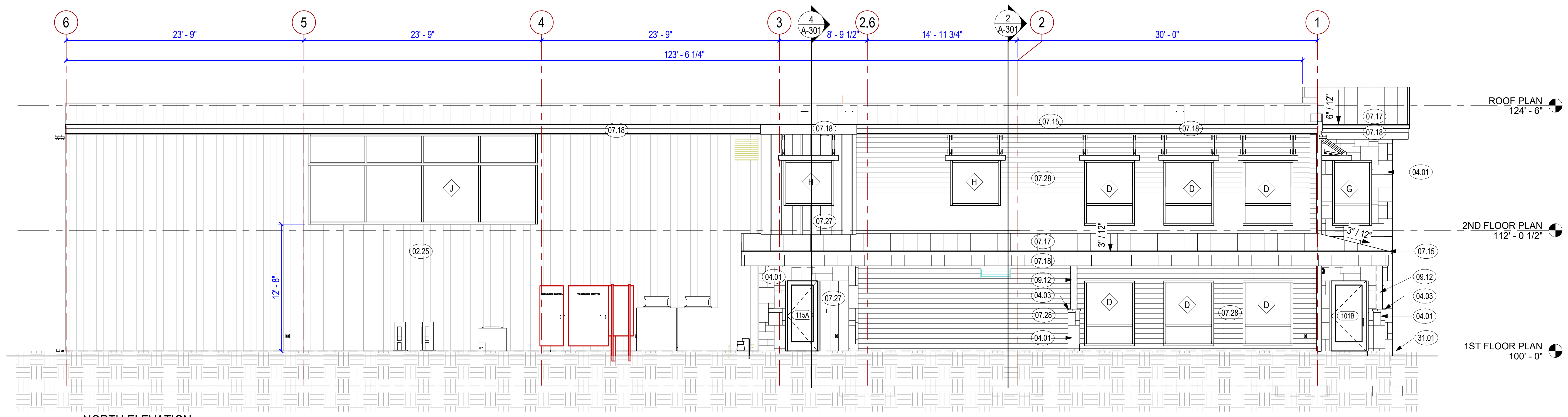
RCH Valley
Real Color Holdings, LLC
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EXTERIOR ELEVATIONS

SHEET NUMBER
A-201



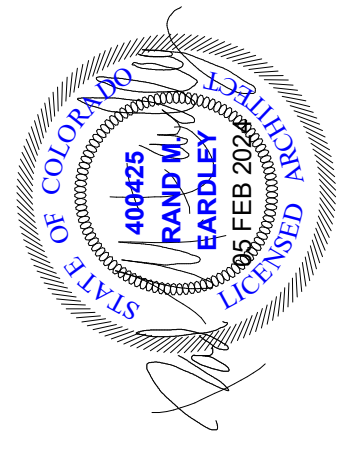
1 EAST ELEVATION
 3/16" = 1'-0"



2 NORTH ELEVATION
 3/16" = 1'-0"

KEYED NOTES

- 02.25 EXISTING SIDING TO REMAIN
- 04.01 2" STONE VENEER; COLOR HARRISTONE CHIEF JOSEPH SUMMIT
- 04.03 STONE CAP, SEAL TO POST, TYP.
- 05.14 METAL AWNING; COLOR MIDNIGHT BRONZE
- 07.15 GUTTER; COLOR MIDNIGHT BRONZE
- 07.17 STANDING SEAM METAL ROOFING OVER 30lb ROOFING FELTS; COLOR MIDNIGHT BRONZE
- 07.18 METAL FASCIA; COLOR MIDNIGHT BRONZE
- 07.27 EDCO STEEL BOARD AND BATTEN, INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS; COLOR WICKERSTONE
- 07.28 EDCO STEEL HORIZONTAL SIDING, INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS; COLOR CEDARWOOD HD
- 09.12 PAINTED METAL COLUMN SEE STRUCTURAL, COLOR MIDNIGHT BRONZE
- 31.01 FINISH GRADE, SLOPE GRADE AWAY FROM STRUCTURE @ 5% MIN. FOR A MINIMUM DISTANCE OF 10 FEET - CONTINUOUS AT PERIMETER OF STRUCTURE



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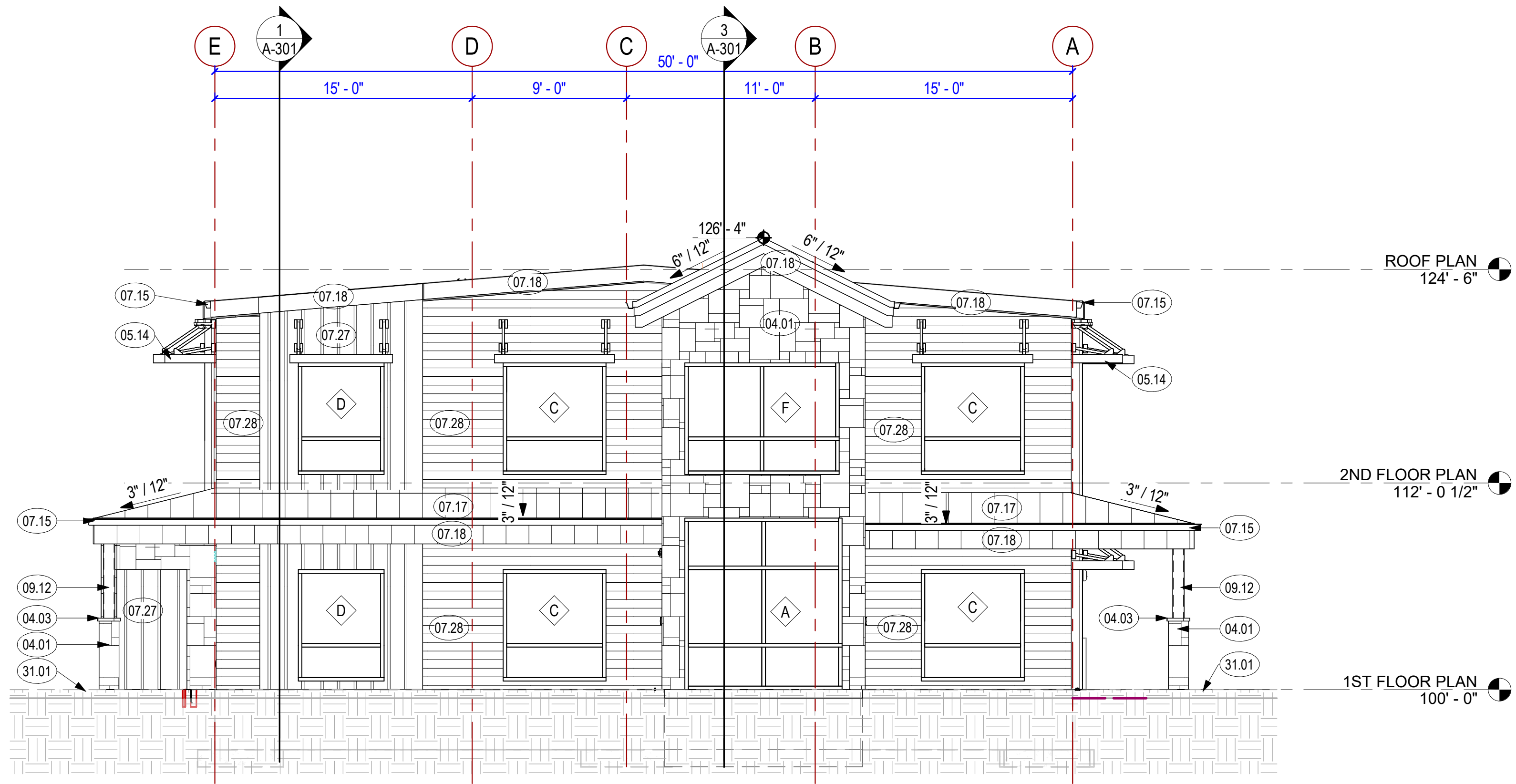
Rev.	Description	Date	Appr.

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Reviewed by:	JTP	Scale:	3/16" = 1'-0"
Submitted by:		Project Number:	

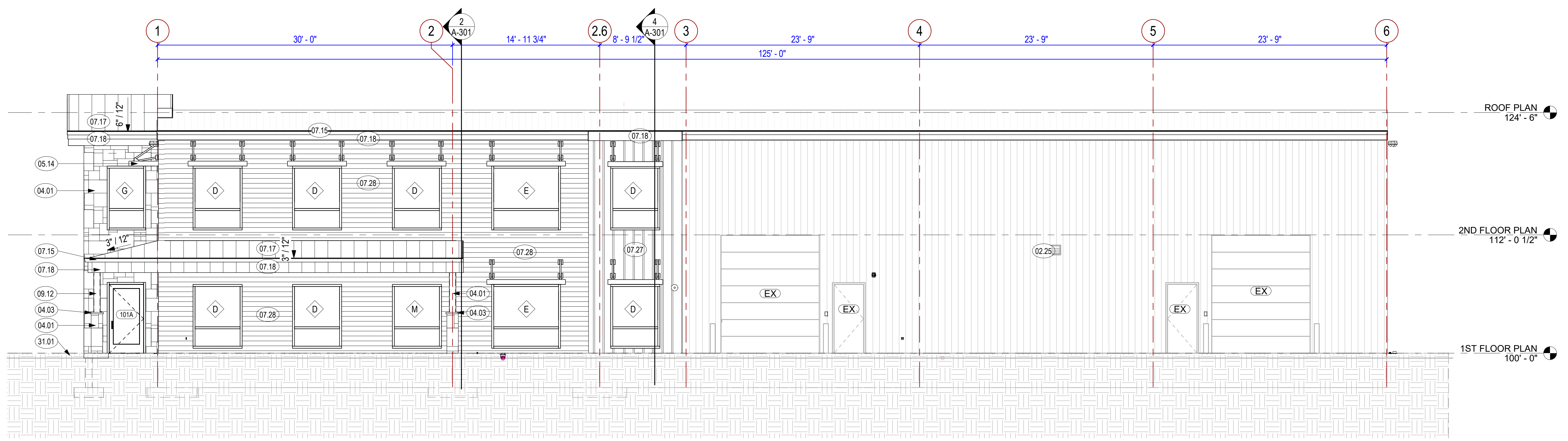
RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
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EXTERIOR ELEVATIONS

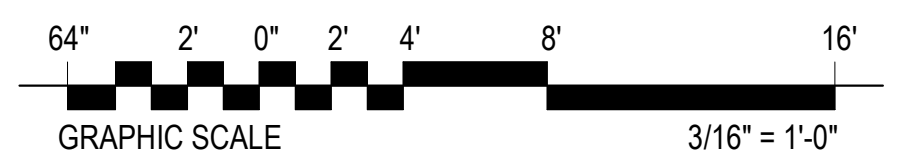
SHEET NUMBER
A-202



1 WEST ELEVATION
 3/16" = 1'-0"



2 SOUTH ELEVATION
 3/16" = 1'-0"



KEYED NOTES

- 07.25 R-13 CONTINUOUS CLOSED CELL SPRAY FOAM INSULATION (APPROXIMATELY 2"), AND R-13 CAVITY WALL BATT INSULATION FOR A TOTAL COMBINED R VALUE OF 26
- 07.27 EDCO STEEL BOARD AND BATTEN, INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS; COLOR WICKERSTONE
- 07.30 R-38 CLOSED CELL SPRAY FOAM INSULATION AT UNDERSIDE OF ROOF DECKING
- 07.31 VAPOR BARRIER BEHIND INTERIOR GYPSUM WALL BOARD
- 07.32 4" MINERAL WOOL INSULATION
- 09.01 MINERAL FIBER ACOUSTICAL CEILING TILE, MINIMUM CAC OF 35 AND NRC OF .6, ARMSTRONG ULTIMA RECOMMENDED
- 09.02 GYPSUM BOARD CEILING; FOR GYPSUM BOARD CEILINGS SPANNING GREATER THAN 48" USE 12 GAUGE WIRE TIES AT 48" ON CENTER
- 09.12 PAINTED METAL COLUMN SEE STRUCTURAL, COLOR MIDNIGHT BRONZE
- 31.01 FINISH GRADE, SLOPE GRADE AWAY FROM STRUCTURE @ 5% MIN. FOR A MINIMUM DISTANCE OF 10 FEET - CONTINUOUS AT PERIMETER OF STRUCTURE

KEYED NOTES

- 07.18 METAL FASCIA; COLOR MIDNIGHT BRONZE
- 07.20 SOUND ATTENUATION INSULATION
- 07.22 CONTINUOUS AIR/WATER BARRIER - "TYVEK" OR EQUIVALENT, INSTALL AIR/WATER BARRIER OVER EXTERIOR FACE OF EXTERIOR WALL SUBSTRATE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, INSTALL AIR/WATER BARRIER PRIOR TO INSTALLATION OF WINDOWS AND DOORS. SILL PLATE INTERFACE - EXTEND LOWER EDGE OF AIR/WATER BARRIER OVER SILL PLATE INTERFACE 3-6 INCHES. SECURE TO FOUNDATION WITH ELASTOMERIC SEALANT. WINDOW AND DOOR OPENINGS - EXTEND AIR/WATER BARRIER COMPLETELY OVER OPENINGS, FINISH AND FLASH OPENINGS. OVERLAP AIR/WATER BARRIER AT: EXTERIOR CORNERS - MINIMUM 12 INCHES, SEAMS - MINIMUM 6 INCHES. ATTACH AIR/WATER BARRIER TO STUDS THROUGH EXTERIOR SHEATHING. SECURE USING AIR/WATER BARRIER MANUFACTURER RECOMMENDED FASTENERS, SPACE 12-18 INCHES VERTICALLY ON CENTER ALONG STUD LINE, AND 24 INCH ON CENTER. MAXIMUM HORIZONTALLY AND/OR ATTACH AIR/WATER BARRIER TO MASONRY. SECURE USING AIR/WATER BARRIER MANUFACTURER RECOMMENDED FASTENERS, SPACED 12-18 INCHES VERTICALLY ON CENTER AND 24 INCHES MAXIMUM HORIZONTALLY. AIR/WATER BARRIER MAY BE TEMPORARILY ATTACHED TO MASONRY USING RECOMMENDED ADHESIVE, PLACED IN VERTICAL STRIPS SPACED 24 INCHES ON CENTER, WHEN COORDINATED ON THE PROJECT SITE. SEAL SEAMS OF AIR/WATER BARRIER WITH SEAM TAPE AT ALL VERTICAL AND HORIZONTAL OVERLAPPING SEAMS. SEAL ANY TEARS OR CUTS AS RECOMMENDED BY AIR/WATER BARRIER MANUFACTURER. FLASH AND SEAL ALL THROUGH-WALL PENETRATIONS.

KEYED NOTES

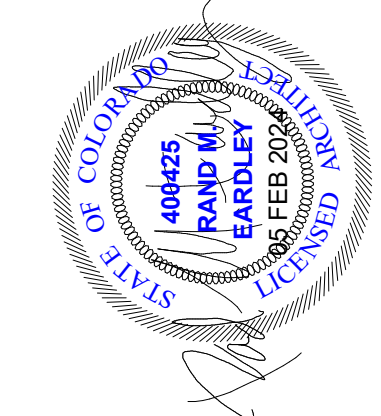
- 05.12 MINIMUM TREAD DEPTH SHALL BE 11 INCHES, TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AND AT RIGHT ANGLE TO TREAD'S LEADING EDGE. GREATEST TREAD DEPTH WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED SMALLEST BY MORE THAN 3/8 INCH (R311.7.5.2)
- 05.15 HANDRAILS SHALL RETURN TO A WALL, GUARD OR THE WALKING SURFACE OF STAIRS. WHERE HANDRAILS ARE NOT CONTINUOUS BETWEEN FLIGHTS, THE HANDRAILS SHALL EXTEND HORIZONTALLY NOT LESS THAN 12 INCHES BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR THE DEPTH OF ONE TREAD BEYOND THE BOTTOM RISER. THE EXTENSIONS OF HANDRAILS SHALL BE IN THE SAME DIRECTION OF THE FLIGHTS OF STAIRS AT THE STAIRWAYS
- 05.20 RISERS ARE REQUIRED TO BE COMPLETELY CLOSED AND MUST SEPERATE THE UNUSED ENCLOSED SPACE BELOW THE STAIR FROM THE INTERIOR EXIT STAIRWAY
- 06.05 ROOF FRAMING, SEE FRAMING PLANS, INSTALL HANGERS, STIFFENERS AND BLOCKING AS PER MANUFACTURER'S SPECS
- 07.01 SHAFT LINER
- 07.07 FOUNDATION DAMPROOFING ON ALL BELOW GRADE SURFACES
- 07.10 FOUNDATION INSULATION - R-10 MINIMUM 30" DEEP MINIMUM CONTINUOUS AT PERIMETER FOUNDATION WALLS
- 07.14 ALUMINUM SOFFIT; COLOR MIDNIGHT BRONZE
- 07.15 GUTTER; COLOR MIDNIGHT BRONZE
- 07.17 STANDING SEAM METAL ROOFING OVER 30lb ROOFING FELTS; COLOR MIDNIGHT BRONZE

KEYED NOTES

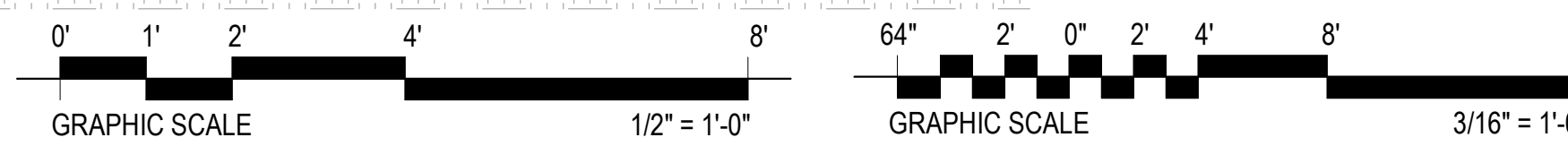
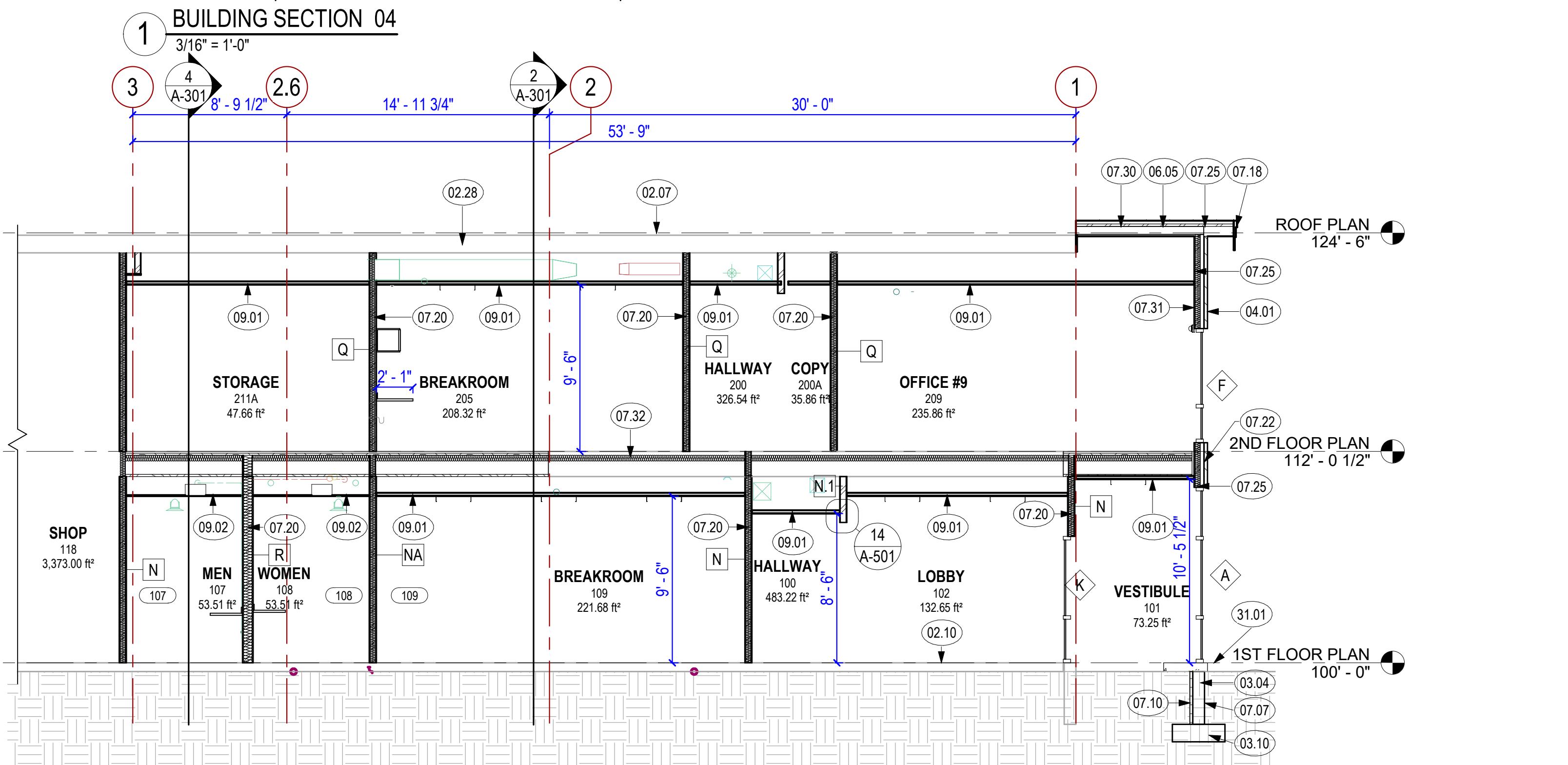
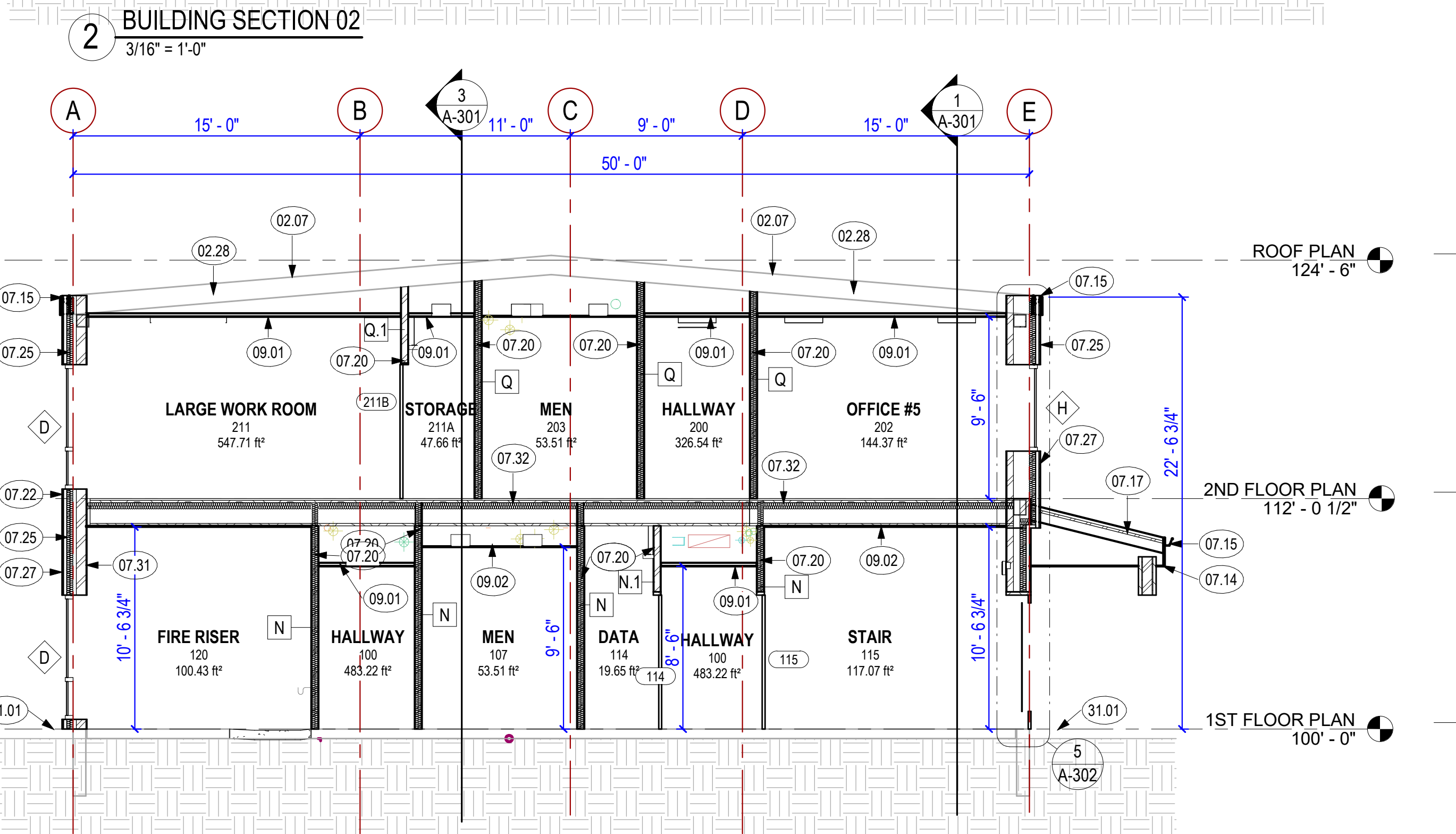
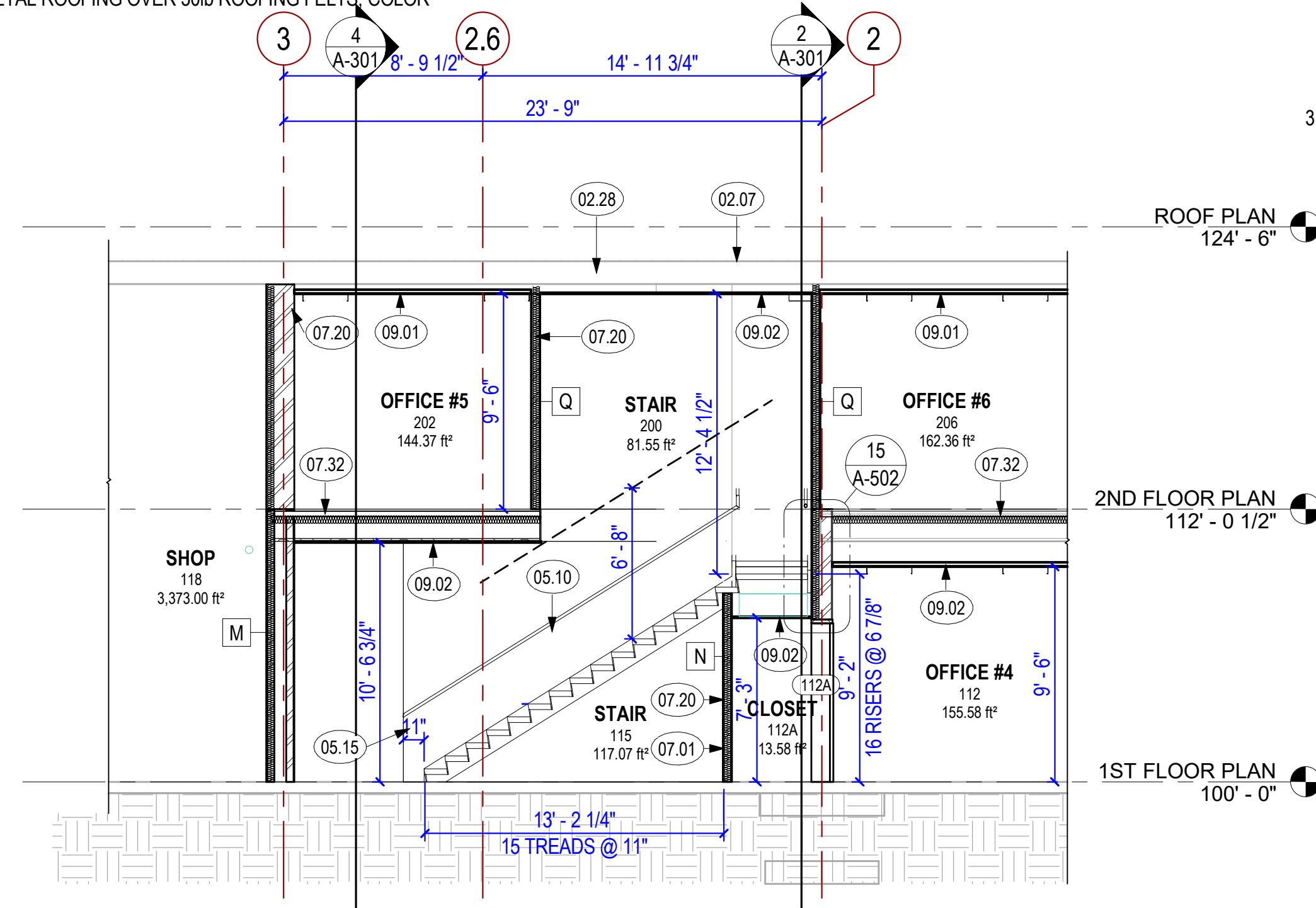
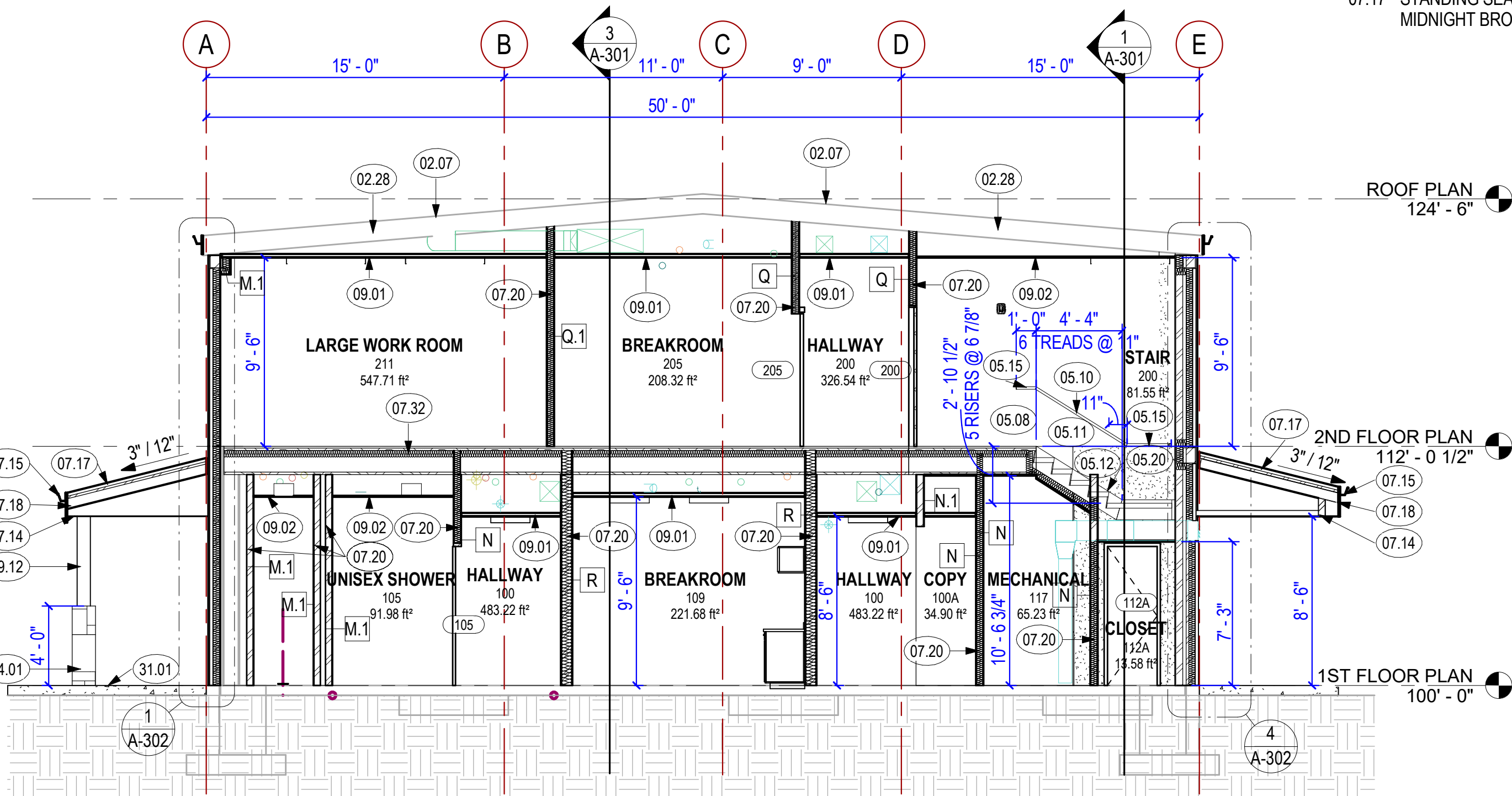
- 02.07 EXISTING ROOFING TO REMAIN
- 02.10 EXISTING FLOOR TO REMAIN
- 02.28 EXISTING ROOF INSULATION TO REMAAIN
- 03.04 FOUNDATION, SEE STRUCTURAL
- 03.10 CONCRETE FOOTING, SEE FOOTING SCHEDULE. NOTE: ASSURE ALL FOOTINGS ARE ESTABLISHED ON UN-DISTURBED NATIVE SOIL CONDITIONS
- 04.01 2" STONE VENEER; COLOR HARRISTONE CHIEF JOSEPH SUMMIT
- 05.08 6" - 8" HEADROOM CLEARANCE MINIMUM MEASURED VERTICALLY FROM THE SLOPED PLAN ADJOINING THE TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING OR PLATFORM
- 05.10 HANDRAIL SIZE TO BE 1 1/4" TO 2 5/8", HANDRAILS SHALL TERMINATE TO WALLS OR NEWEL POSTS. MAX 4" SPACING BETWEEN BALUSTERS. HANDRAIL IS TO BE PLACED 34" TO 38" ABOVE THE NOSE OF THE TREADS VERTICALLY TO THE TOP RAIL. THEY SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS. THE HANDGRIP PORTION SHALL BE NOT LESS THAN 1 1/4" NOR MORE THAN 2" IN CROSS-SECTIONAL DIMENSION. HANDRAILS PROJECTING FROM A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1 1/2" BETWEEN THE WALL AND THE HANDRAIL
- 05.11 MAXIMUM RISER HEIGHT SHALL BE 7 INCHES, RISER SHALL BE MEASURED VERTICALLY BETWEEN LEADING EDGES OF ADJACENT TREADS, GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH (R311.7.5.1)

BUILDING SECTION GENERAL NOTES

- INSTALL CONTINUOUS VAPOR RETARDER ON THE WARM SIDE OF ALL WALLS AND CEILINGS IN CONDITIONED SPACES. OVERLAP JOINTS AT LEAST 6 INCHES AND SEAL WITH PRESSURE SENSITIVE TAPE. SEAL AT SILL, HEADER, WINDOWS, DOORS AND UTILITY PENETRATIONS. REPAIR PUNCTURES OR TEARS WITH PRESSURE SENSITIVE TAPE.
- INSTALL "TYVEK" OR EQUIVALENT WEATHER BARRIER OVER EXTERIOR FACE OF EXTERIOR WALL SUBSTRATE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, INSTALL WEATHER BARRIER PRIOR TO INSTALLATION OF WINDOWS AND DOORS. SILL PLATE INTERFACE - EXTEND LOWER EDGE OF WEATHER BARRIER OVER SILL PLATE INTERFACE 3-6 INCHES. SECURE TO FOUNDATION WITH ELECTROMETRIC SEALANT. WINDOW AND DOOR OPENINGS - EXTEND WEATHER BARRIER COMPLETELY OVER OPENINGS, FINISH AND FLASH OPENINGS. OVERLAP WEATHER BARRIER AT: EXTERIOR CORNERS - MINIMUM 12 INCHES, SEAMS - MINIMUM 6 INCHES. ATTACH WEATHER BARRIER TO STUDS THROUGH EXTERIOR SHEATHING. SECURE USING WEATHER BARRIER MANUFACTURER RECOMMENDED FASTENERS, SPACE 12-18 INCHES VERTICALLY ON CENTER ALONG STUD LINE, AND 24 INCH ON CENTER. MAXIMUM HORIZONTALLY AND/OR ATTACH WEATHER BARRIER TO MASONRY. SECURE USING WEATHER BARRIER MANUFACTURER RECOMMENDED FASTENERS, SPACED 12-18 INCHES VERTICALLY ON CENTER AND 24 INCHES MAXIMUM HORIZONTALLY. WEATHER BARRIER MAY BE TEMPORARILY ATTACHED TO MASONRY USING RECOMMENDED ADHESIVE, PLACED IN VERTICAL STRIPS SPACED 24 INCHES ON CENTER, WHEN COORDINATED ON THE PROJECT SITE. SEAL SEAMS OF WEATHER BARRIER WITH SEAM TAPE AT ALL VERTICAL AND HORIZONTAL OVERLAPPING SEAMS. SEAL ANY TEARS OR CUTS AS RECOMMENDED BY WEATHER BARRIER MANUFACTURER. FLASH AND SEAL ALL THROUGH-WALL PENETRATIONS.
- PROVIDE FOUNDATION DAMPROOFING ON ALL BELOW GRADE SURFACES.



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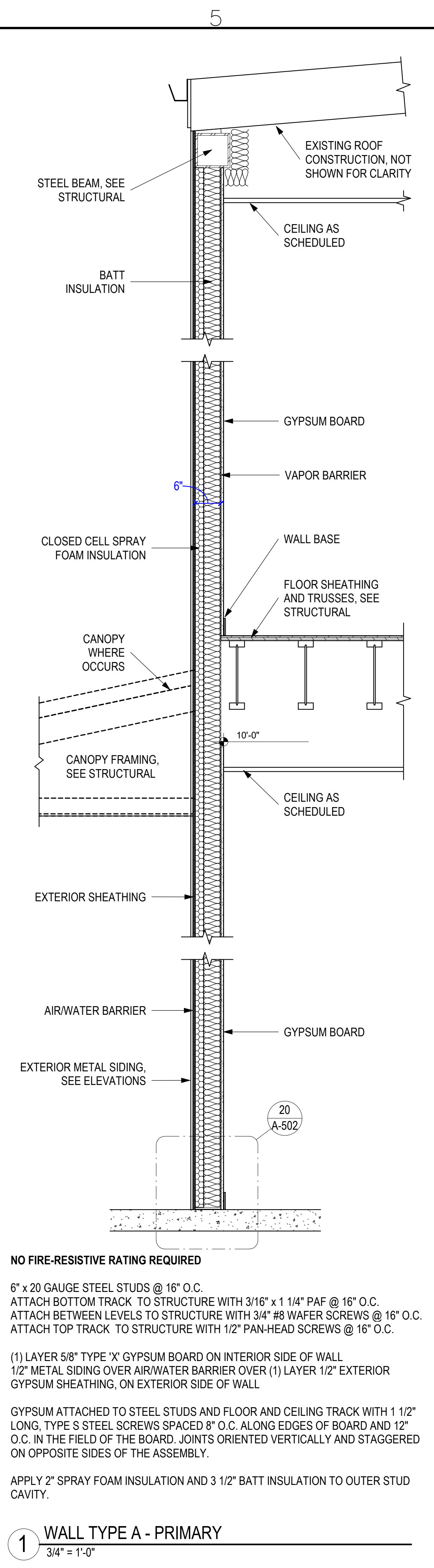
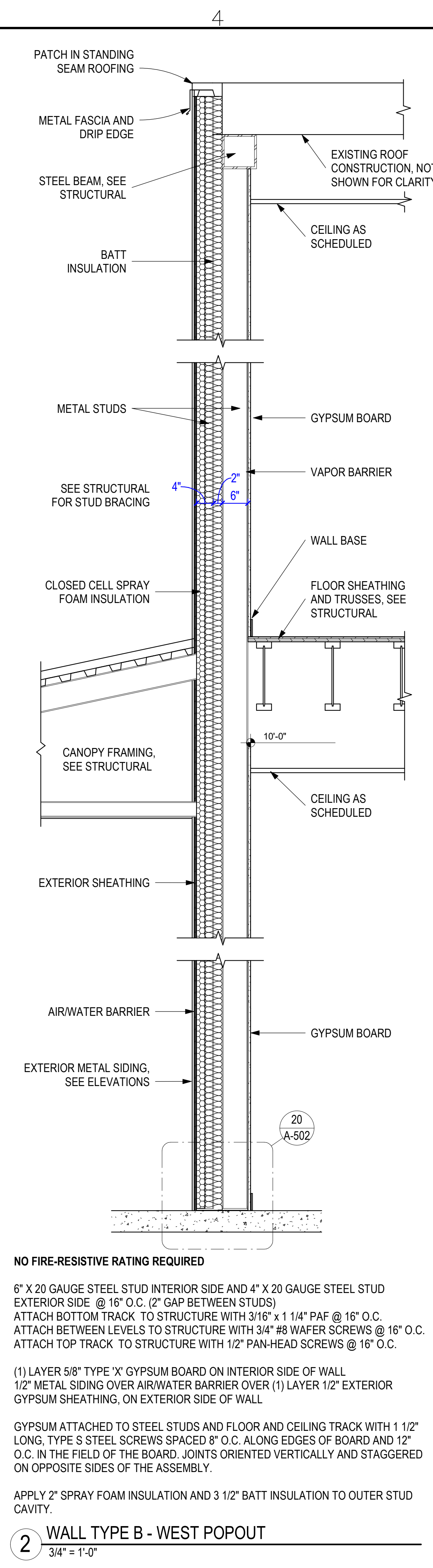
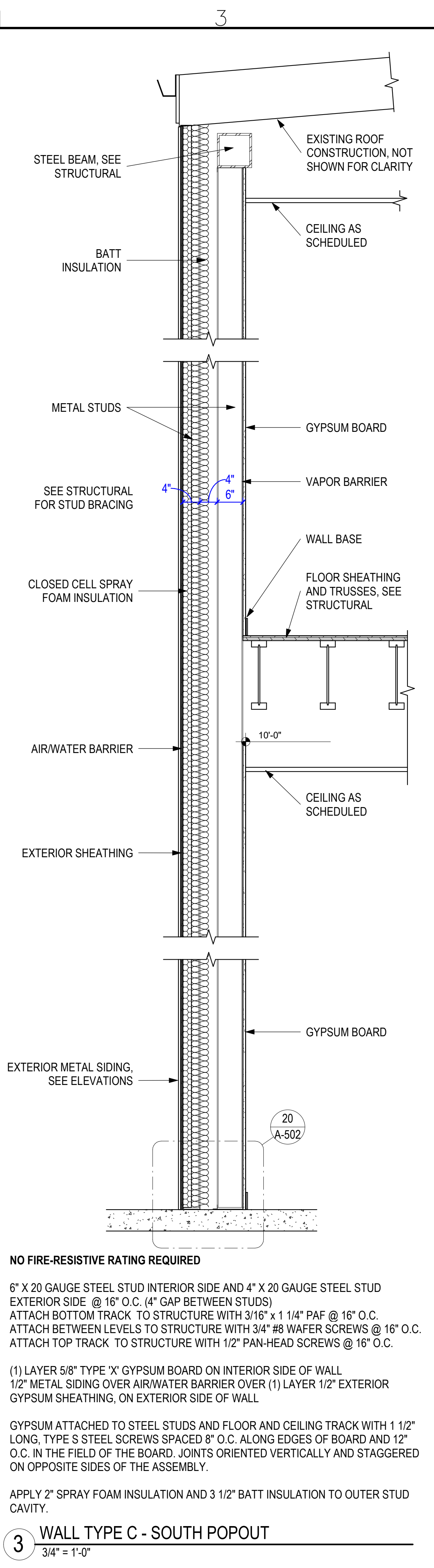
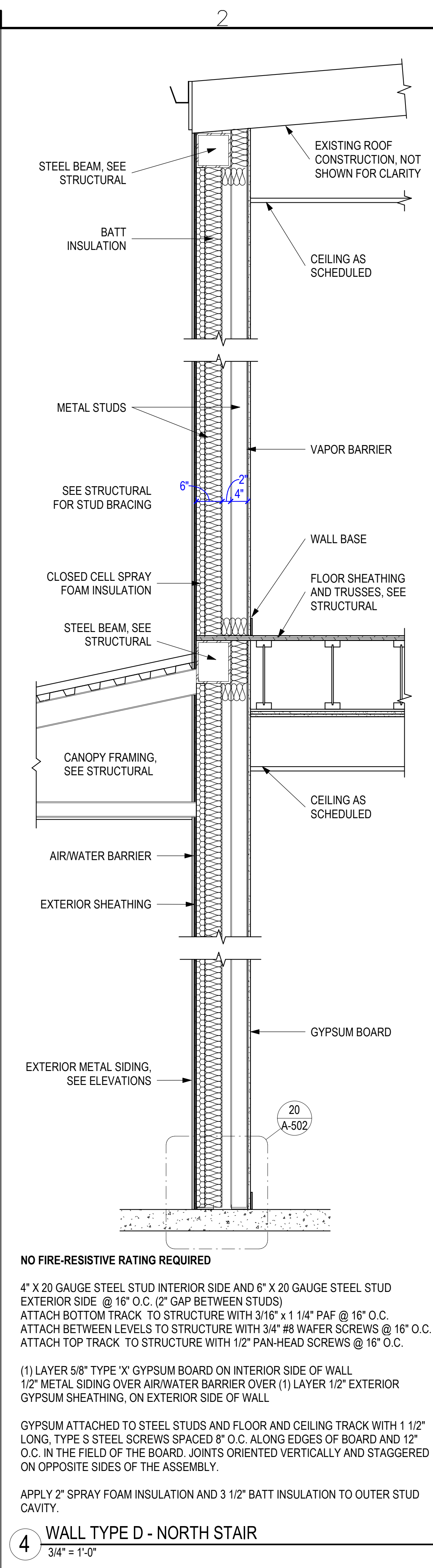
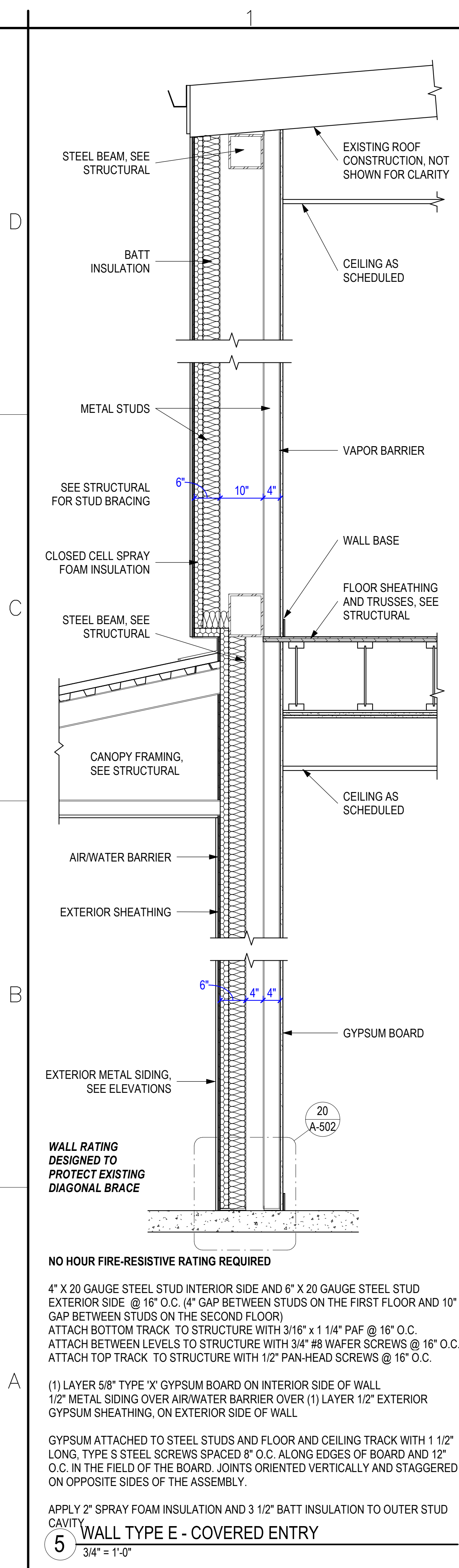
REV:	DATE	DESCRIPTION

Designed by: RME
 Drawn by: WAR
 Reviewed by: JTP
 Submitted by: JTP

Submitted: 05 FEB 2024
 File: WAR
 Scale: As indicated
 Project Number:

RCH Valley
 Real Color Holdings, LLC
 875 Valley St
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A-301



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Rev.	Description	Date	Appr.

Designed by: RME
 Drawn by: SB
 Reviewed by: JTP
 Submitted by: JTP

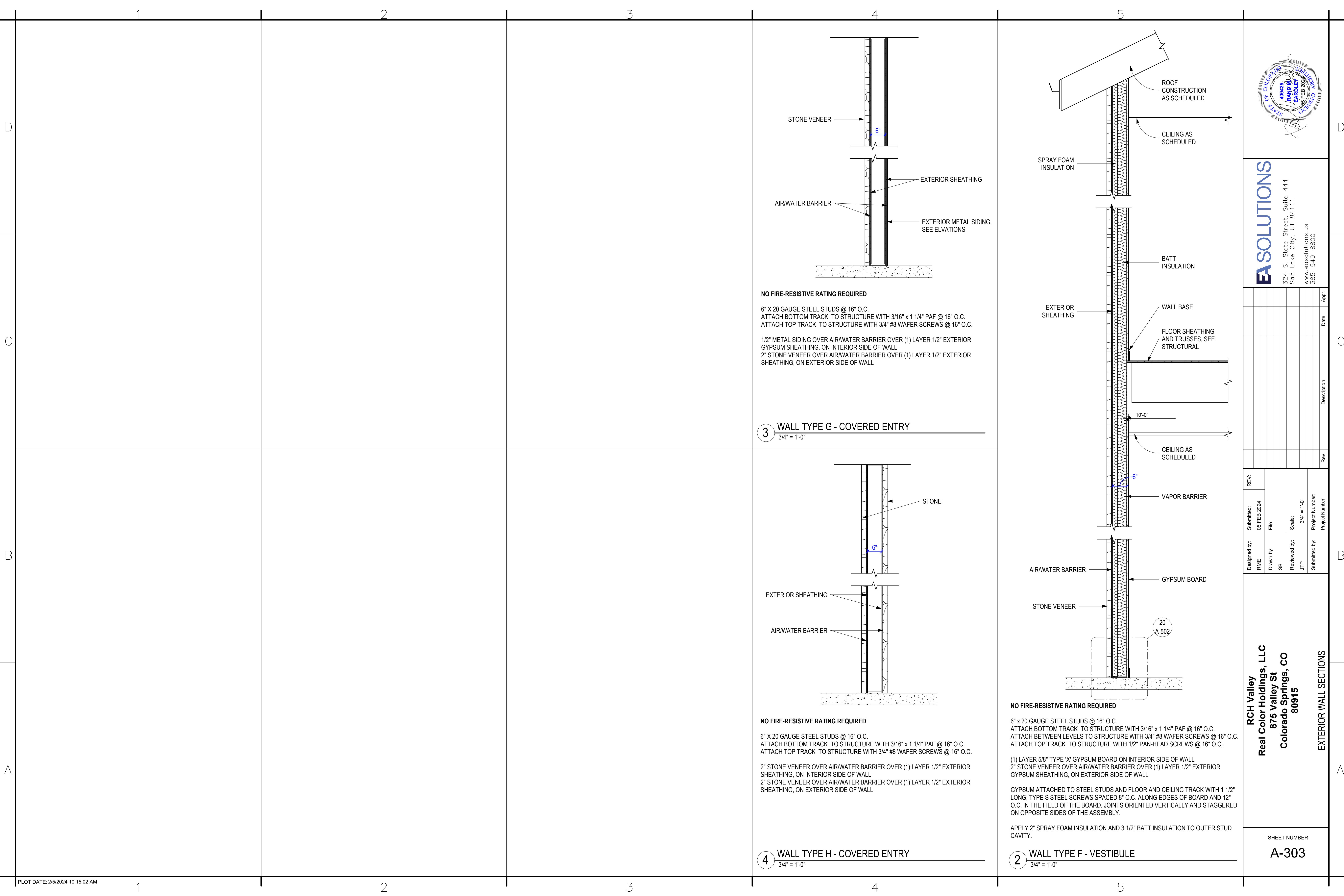
Submitted: 05 FEB 2024
 File: SB
 Scale: 3/4" = 1'-0"
 Project Number:

REVISIONS

RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

EXTERIOR WALL SECTIONS

SHEET NUMBER
A-302



NO FIRE-RESISTIVE RATING REQUIRED
 6" X 20 GAUGE STEEL STUDS @ 16" O.C.
 ATTACH BOTTOM TRACK TO STRUCTURE WITH 3/16" x 1 1/4" PAF @ 16" O.C.
 ATTACH TOP TRACK TO STRUCTURE WITH 3/4" #8 WAFER SCREWS @ 16" O.C.
 1/2" METAL SIDING OVER AIR/WATER BARRIER OVER (1) LAYER 1/2" EXTERIOR GYPSUM SHEATHING, ON INTERIOR SIDE OF WALL
 2" STONE VENEER OVER AIR/WATER BARRIER OVER (1) LAYER 1/2" EXTERIOR SHEATHING, ON EXTERIOR SIDE OF WALL

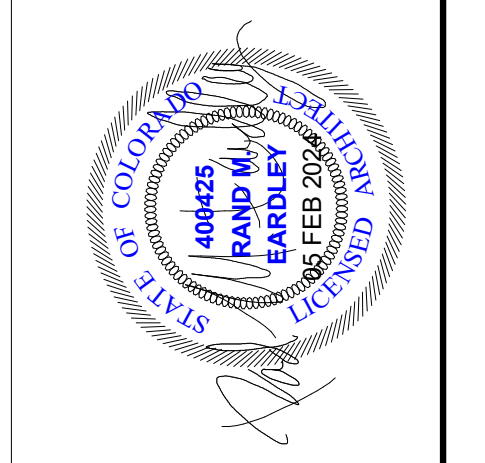
3 WALL TYPE G - COVERED ENTRY
 3/4" = 1'-0"

NO FIRE-RESISTIVE RATING REQUIRED
 6" X 20 GAUGE STEEL STUDS @ 16" O.C.
 ATTACH BOTTOM TRACK TO STRUCTURE WITH 3/16" x 1 1/4" PAF @ 16" O.C.
 ATTACH TOP TRACK TO STRUCTURE WITH 3/4" #8 WAFER SCREWS @ 16" O.C.
 2" STONE VENEER OVER AIR/WATER BARRIER OVER (1) LAYER 1/2" EXTERIOR SHEATHING, ON INTERIOR SIDE OF WALL
 2" STONE VENEER OVER AIR/WATER BARRIER OVER (1) LAYER 1/2" EXTERIOR SHEATHING, ON EXTERIOR SIDE OF WALL

4 WALL TYPE H - COVERED ENTRY
 3/4" = 1'-0"

NO FIRE-RESISTIVE RATING REQUIRED
 6" X 20 GAUGE STEEL STUDS @ 16" O.C.
 ATTACH BOTTOM TRACK TO STRUCTURE WITH 3/16" x 1 1/4" PAF @ 16" O.C.
 ATTACH BETWEEN LEVELS TO STRUCTURE WITH 3/4" #8 WAFER SCREWS @ 16" O.C.
 ATTACH TOP TRACK TO STRUCTURE WITH 1/2" PAN-HEAD SCREWS @ 16" O.C.
 (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD ON INTERIOR SIDE OF WALL
 2" STONE VENEER OVER AIR/WATER BARRIER OVER (1) LAYER 1/2" EXTERIOR GYPSUM SHEATHING, ON EXTERIOR SIDE OF WALL
 GYPSUM ATTACHED TO STEEL STUDS AND FLOOR AND CEILING TRACK WITH 1 1/2" LONG, TYPE S STEEL SCREWS SPACED 8" O.C. ALONG EDGES OF BOARD AND 12" O.C. IN THE FIELD OF THE BOARD. JOINTS ORIENTED VERTICALLY AND STAGGERED ON OPPOSITE SIDES OF THE ASSEMBLY.
 APPLY 2" SPRAY FOAM INSULATION AND 3 1/2" BATT INSULATION TO OUTER STUD CAVITY.

2 WALL TYPE F - VESTIBULE
 3/4" = 1'-0"



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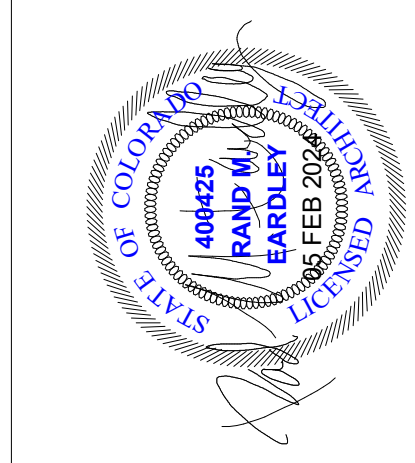
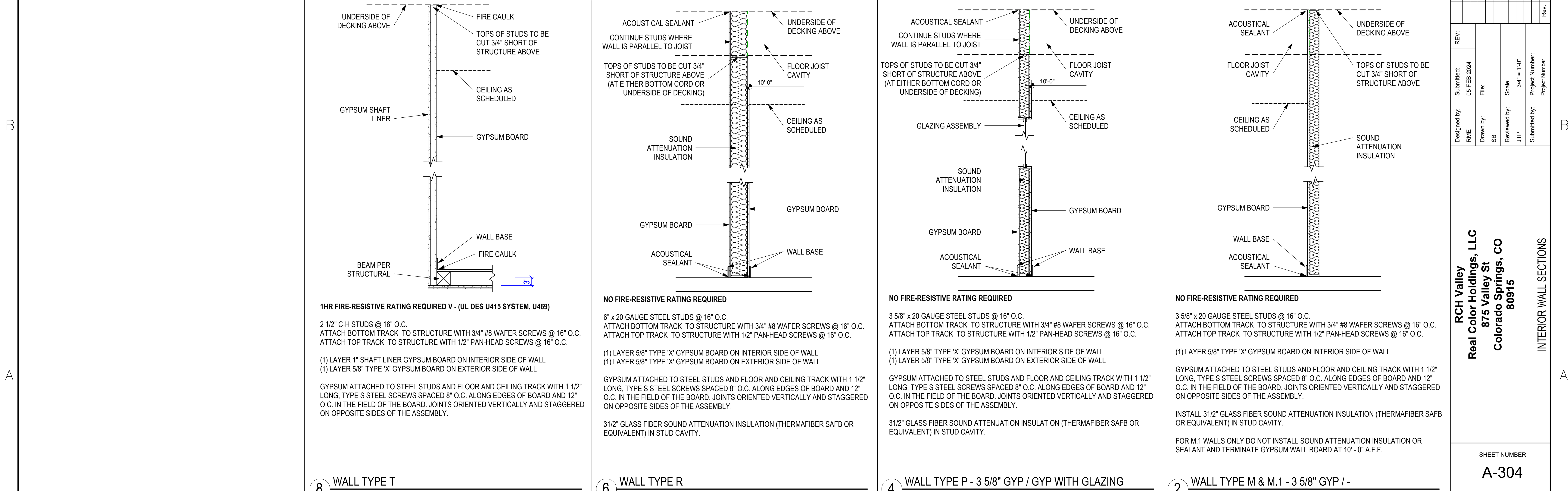
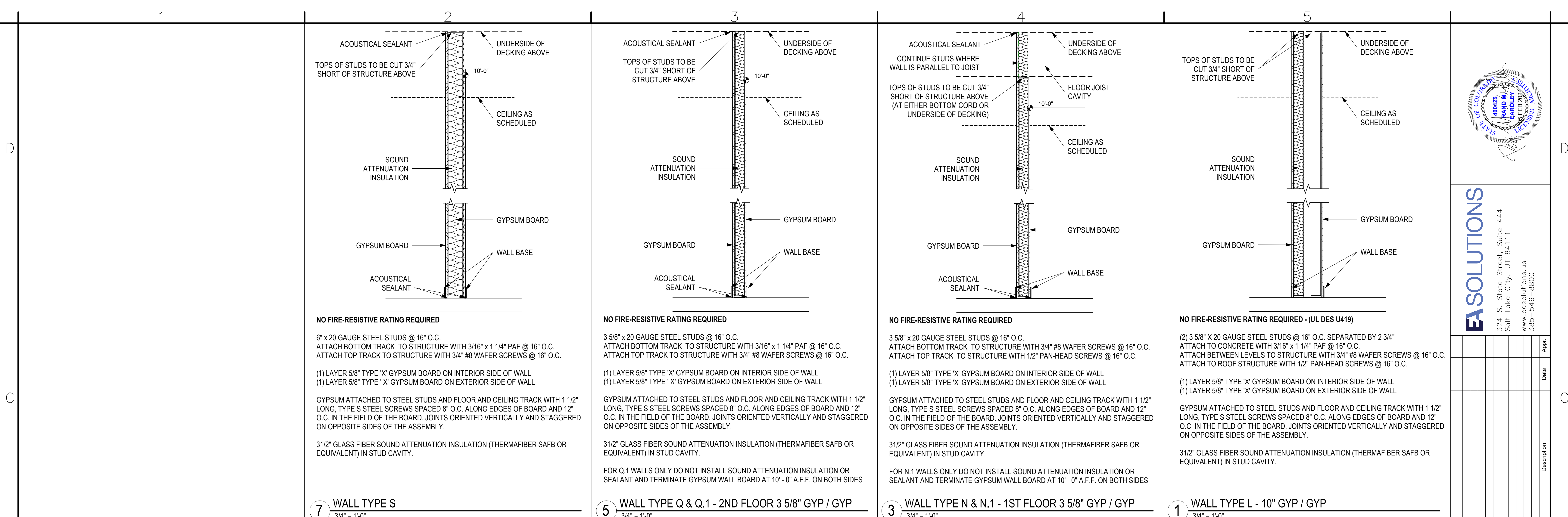
Rev.	Description	Date	Appr.

Designed by:	RME	Submitted:	05 FEB 2024
Drawn by:	SB	File:	
Reviewed by:	JTP	Scale:	3/4" = 1'-0"
Submitted by:		Project Number:	

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80915

EXTERIOR WALL SECTIONS

SHEET NUMBER
A-303



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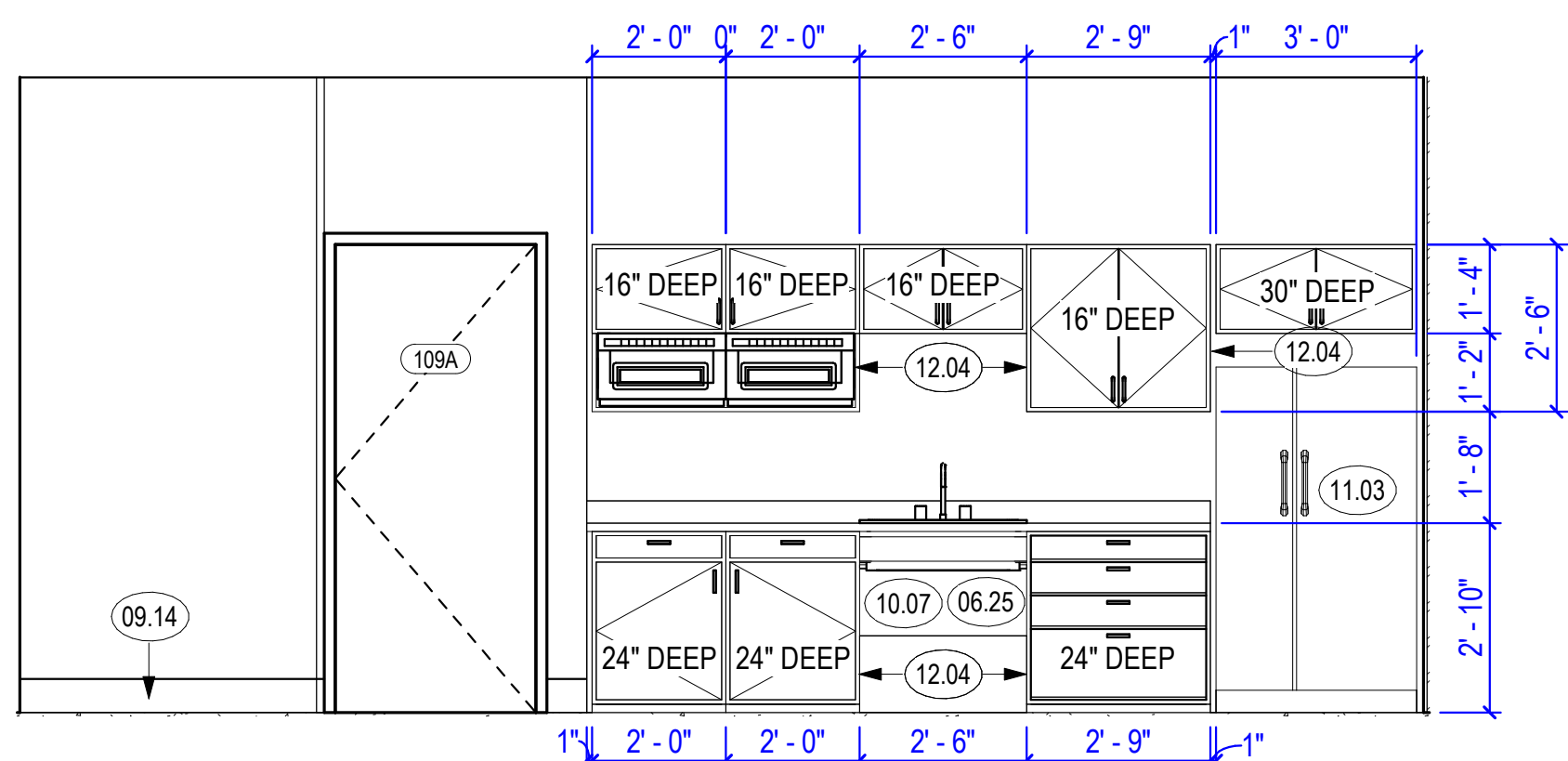
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Drawn by: SB	Reviewed by: JTP	Submitted by: 		

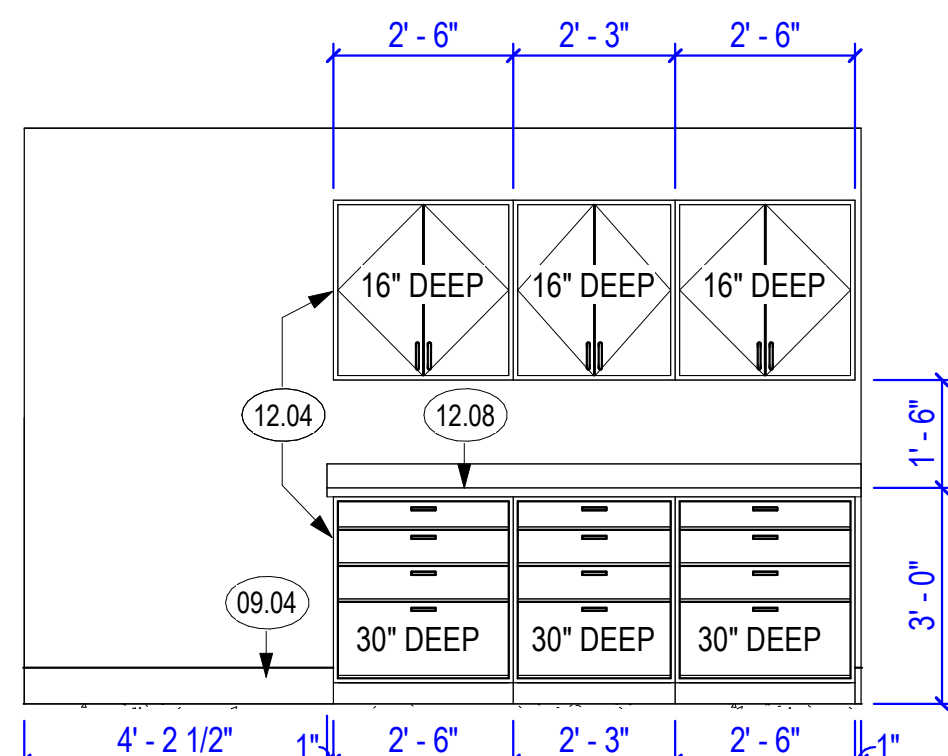
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INTERIOR WALL SECTIONS

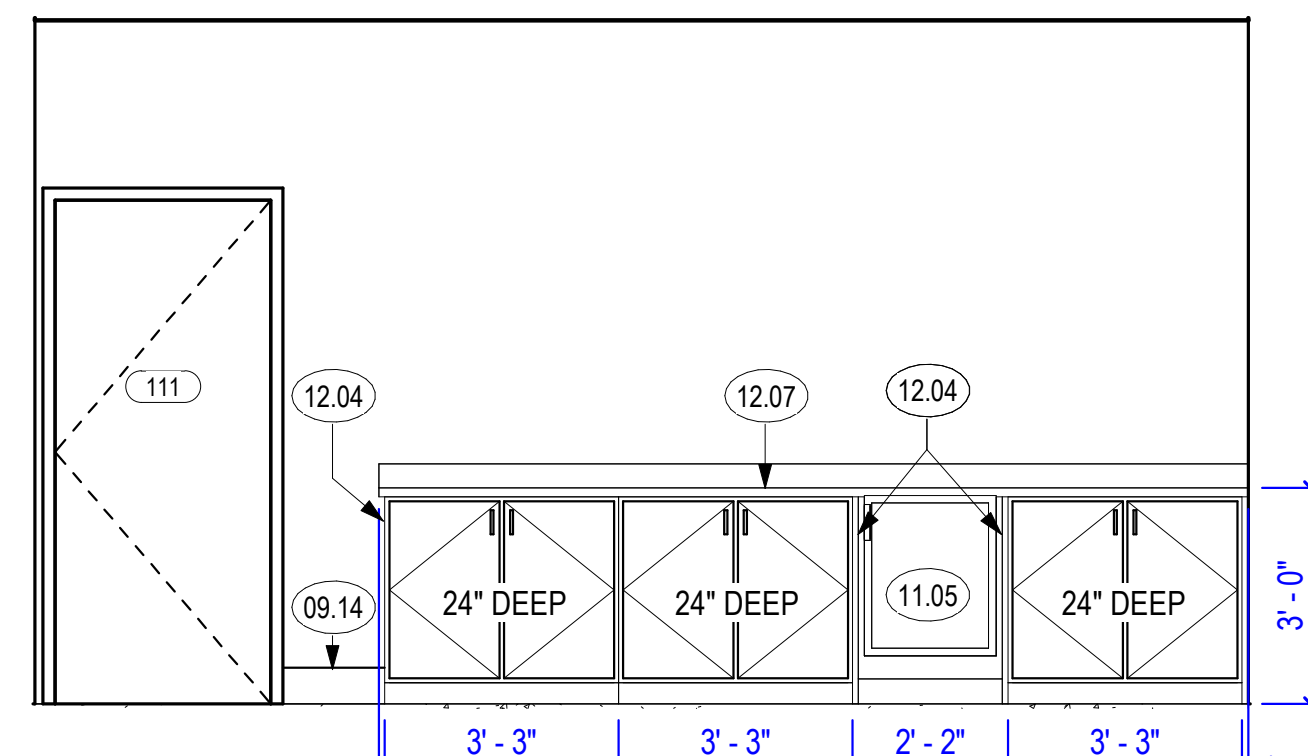
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3 1ST FLOOR BREAK ROOM
3/8\"/>

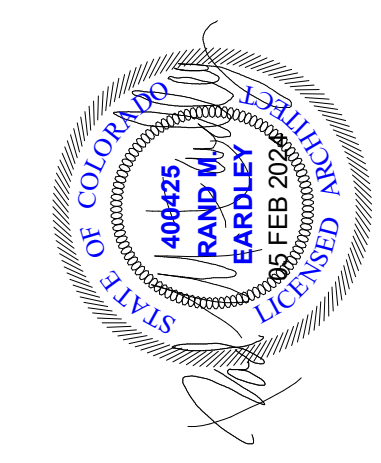


2 1ST FLOOR COPY AREA
3/8\"/>



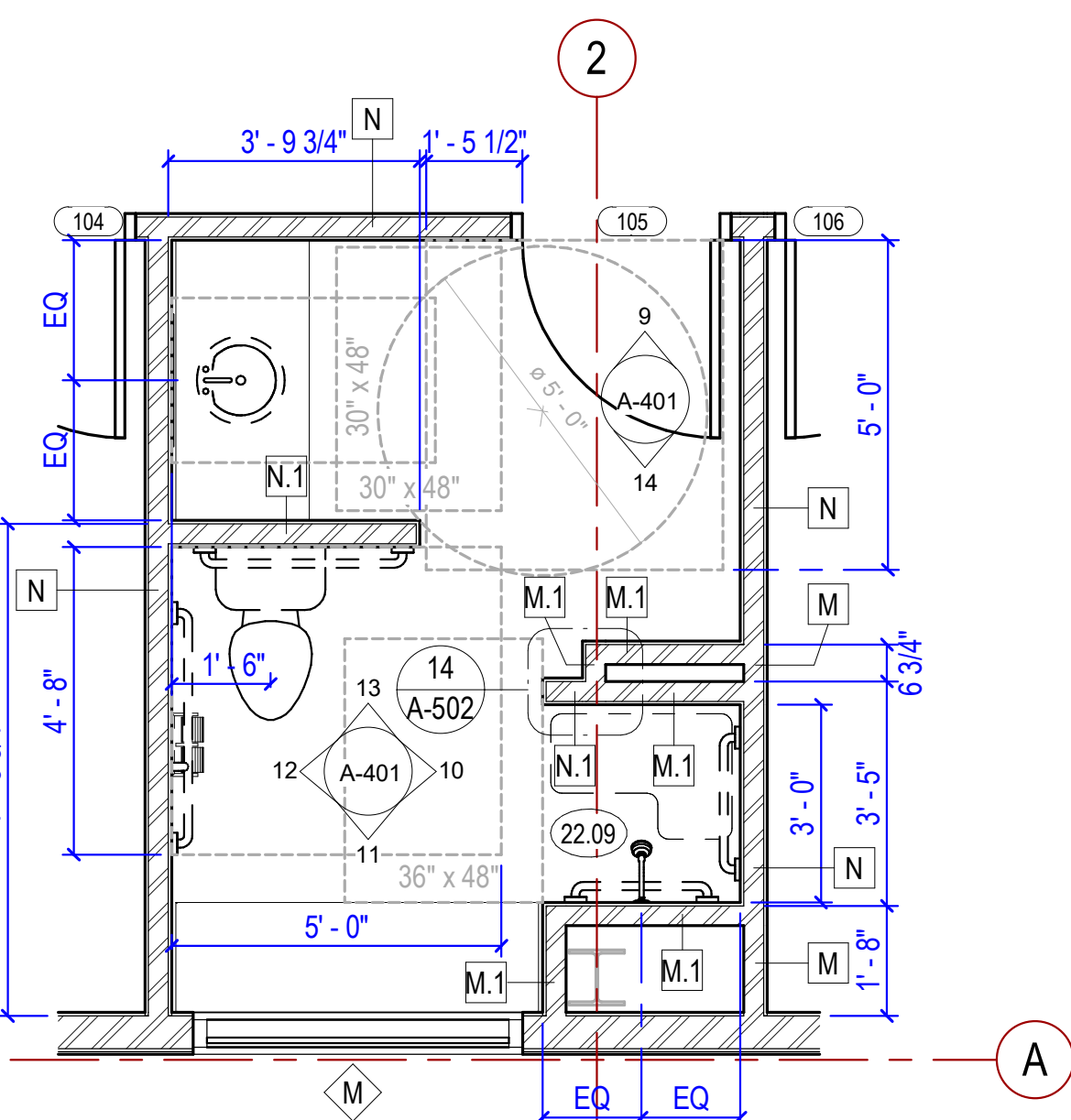
1 SMALL CONFERENCE ROOM - ELEVATION
3/8\"/>

- ### KEYED NOTES
- 06.25 ADA SINK APRON
 - 09.04 TILE WALL BASE
 - 09.05 FIBERGLASS REINFORCED PANELS
 - 09.14 RUBBER BASE
 - 10.07 NO SHARP OR ABRASIVE SURFACES ALLOWED UNDER SINK. INSULATE WATER SUPPLY AND DRAIN PIPES UNDER SINK WITH PROTECTIVE SLEEVE TO PROTECT AGAINST CONTACT
 - 10.08 GARMET HOOK
 - 10.09 ADA SHOWER BENCH
 - 10.10 ACCESSIBLE BENCH
 - 11.03 REFRIGERATOR
 - 11.05 MINI FRIDGE
 - 12.04 FINISH CABINET SIDE PANEL
 - 12.07 25" DEEP COUNTER
 - 12.08 31" DEEP COUNTER
 - 22.09 SHOWERS WITH TILED WALLS REQUIRE A PORTLAND CEMENT APPLICATION, FIBERED-CEMENT OR GLASS MAT GYPSUM BACKER; GREEN BOARD IS NO LONGER ALLOWED. SHOWERS SHALL BE FINISHED TO A HEIGHT OF NOT LESS THAN 72" ABOVE THE FLOOR, MATERIALS SHALL BE NON-ABSORBENT
 - 22.12 MOP SINK, SEE PLUMBING DRAWINGS
 - 22.14 UTILITY SINK WITH EYEWASH ATTACHMENT ON FAUCET, SEE PLUMBING DRAWINGS

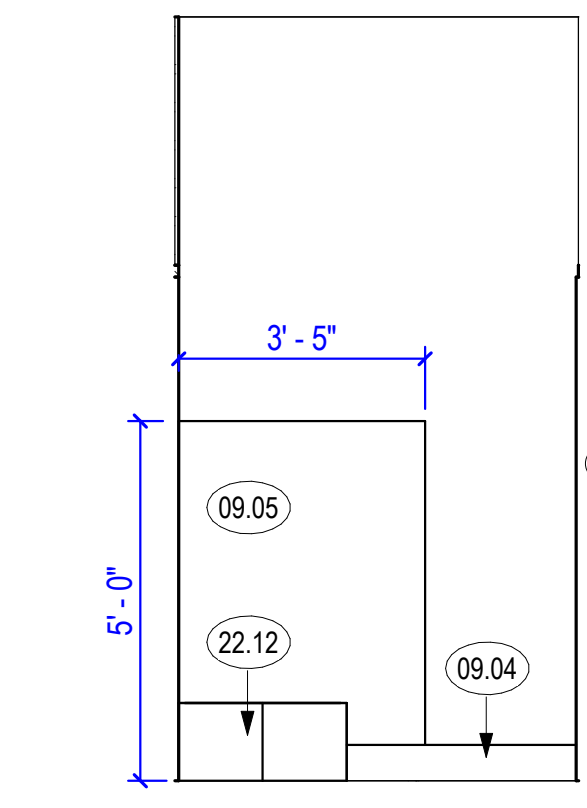


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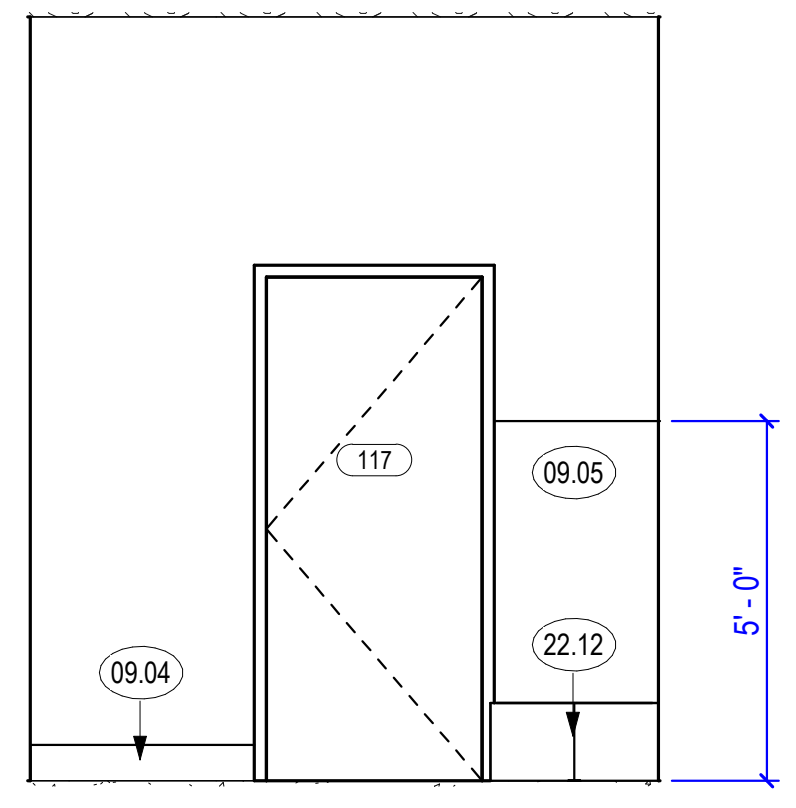
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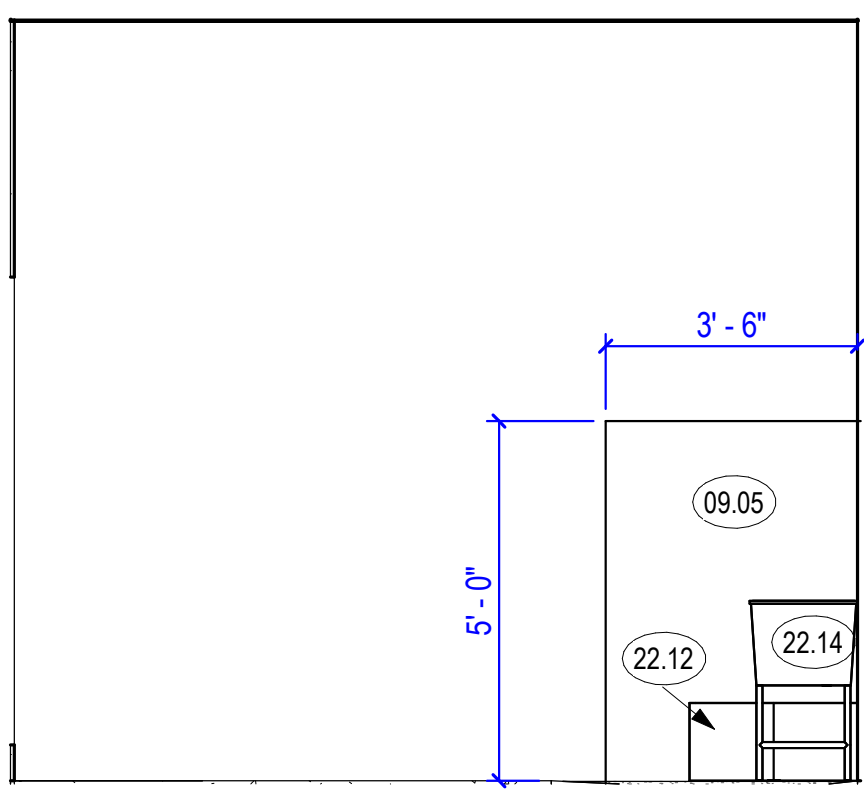
8 ENLARGED SHOWER ROOM
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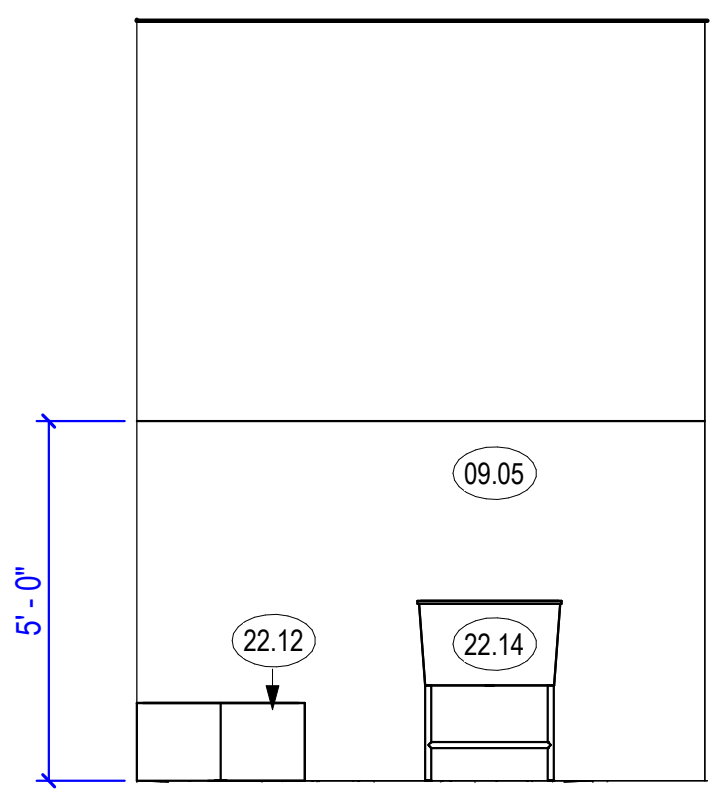
7 1ST FLOOR JANITOR - NORTH
3/8\"/>



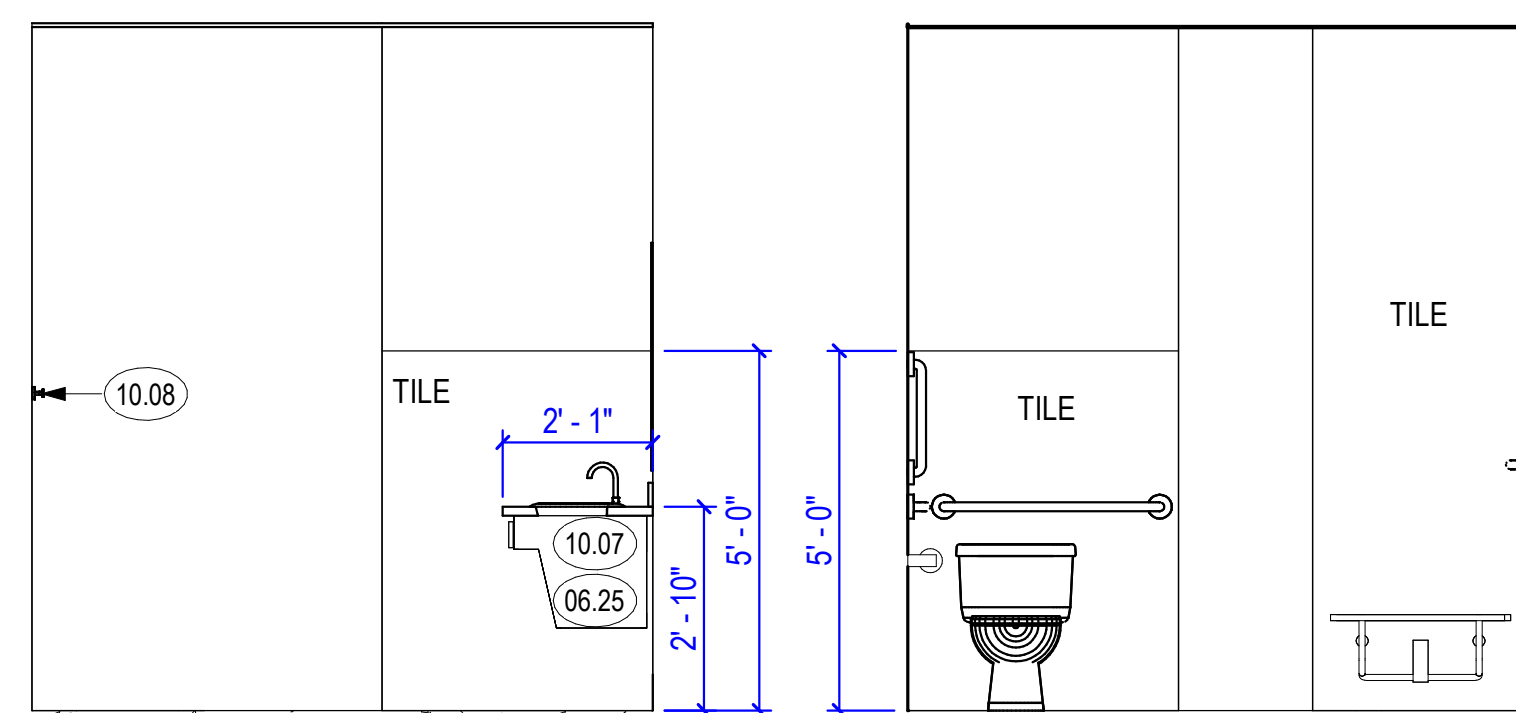
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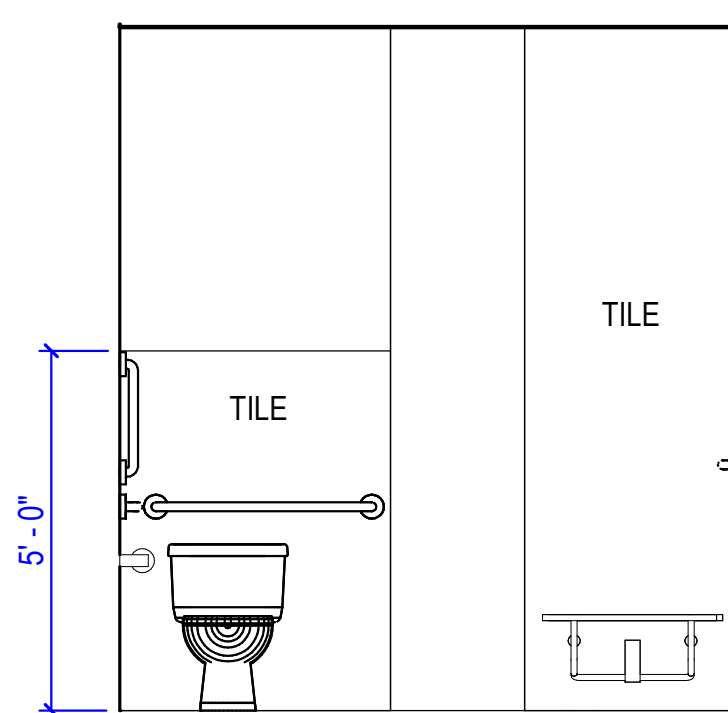
5 FIRE RISER - WEST
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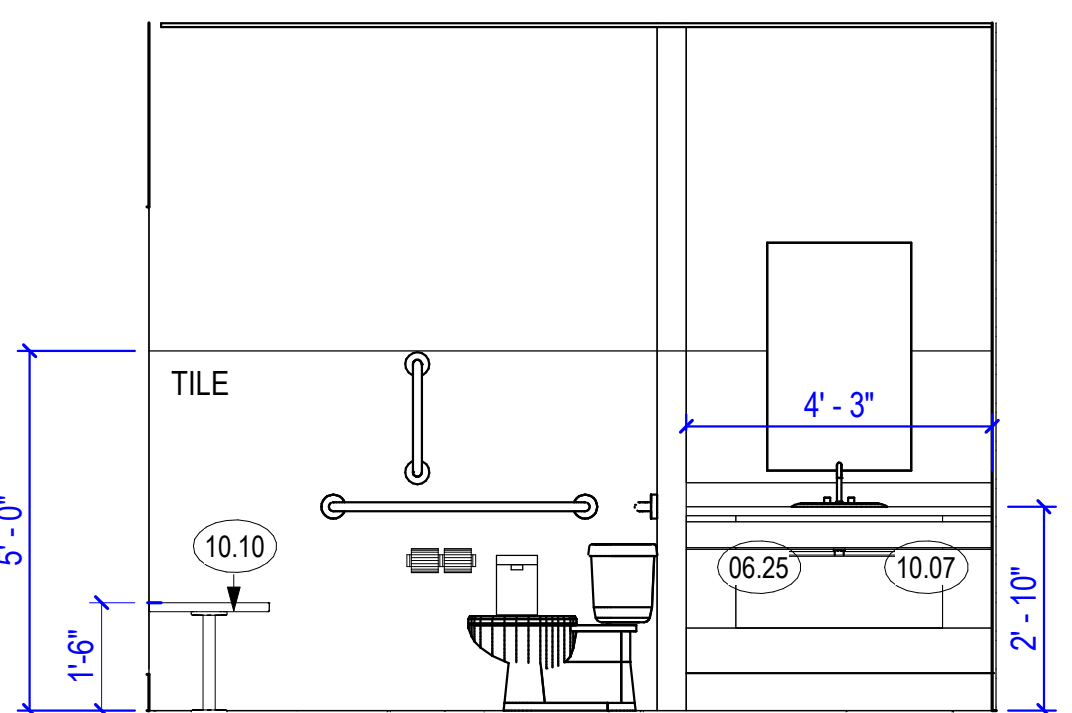
4 FIRE RISER - NORTH
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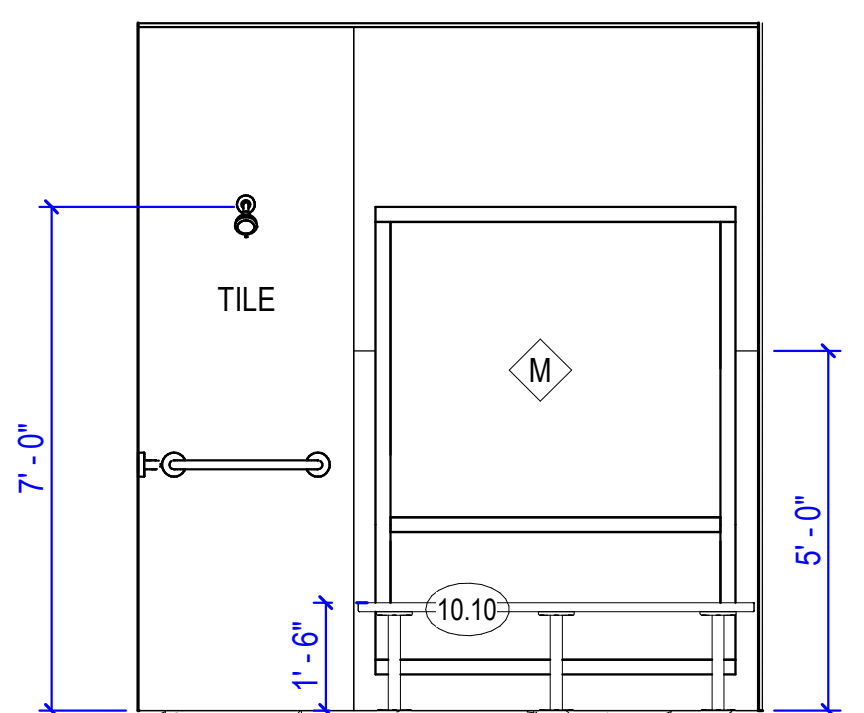
14 UNISEX SHOWER - SINK SOUTH
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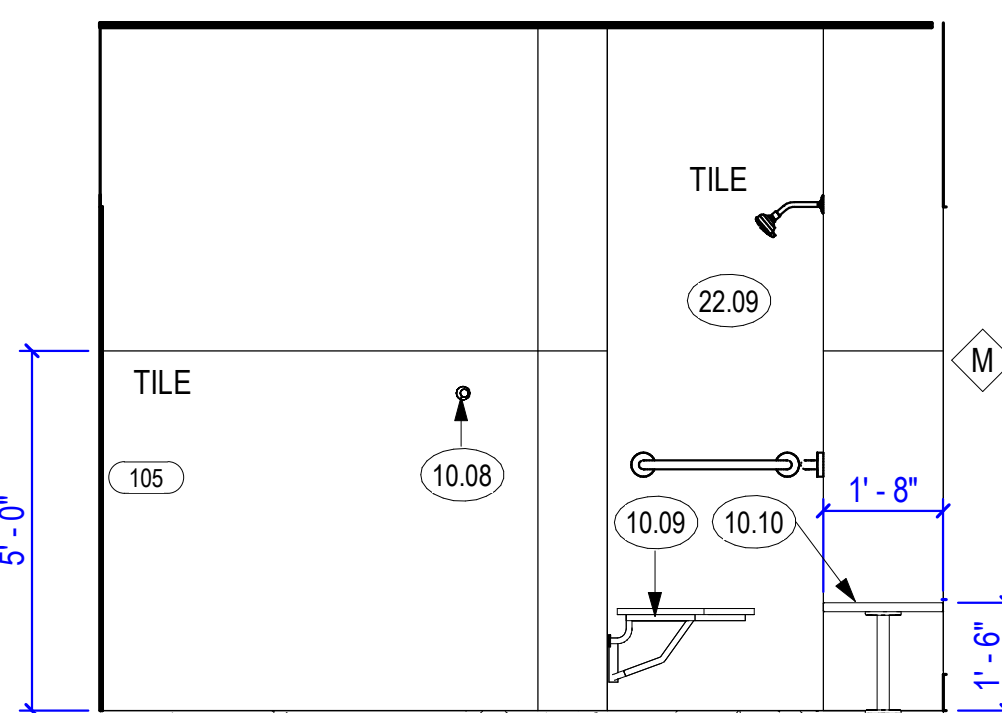
13 UNISEX SHOWER - SHOWER NORTH
3/8\"/>



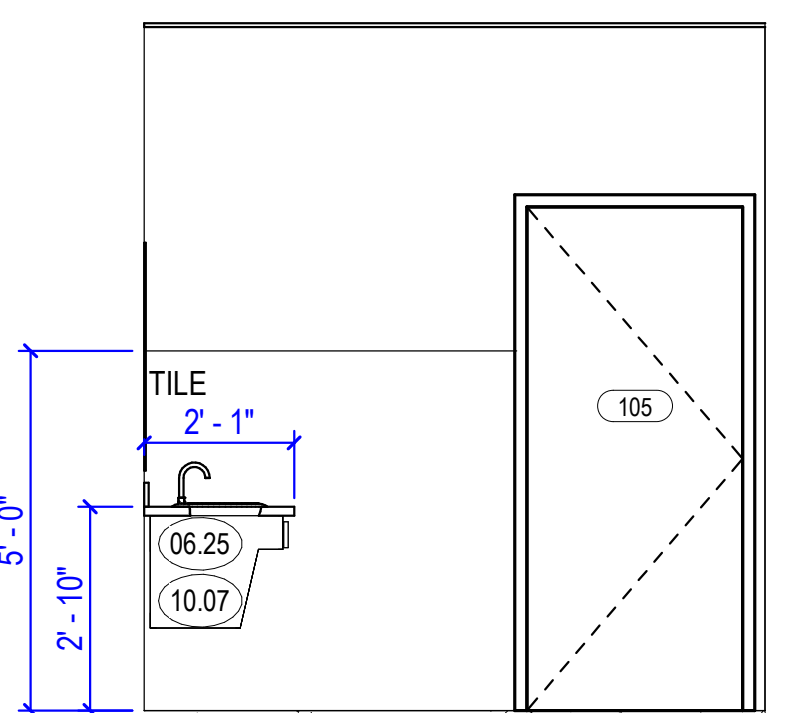
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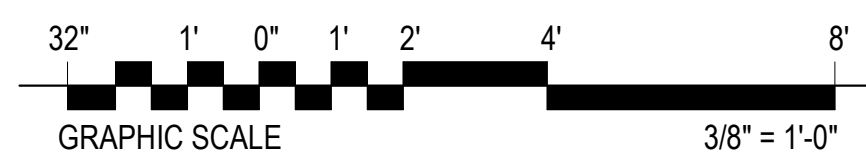
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3/8\"/>



10 UNISEX SHOWER - EAST
3/8\"/>

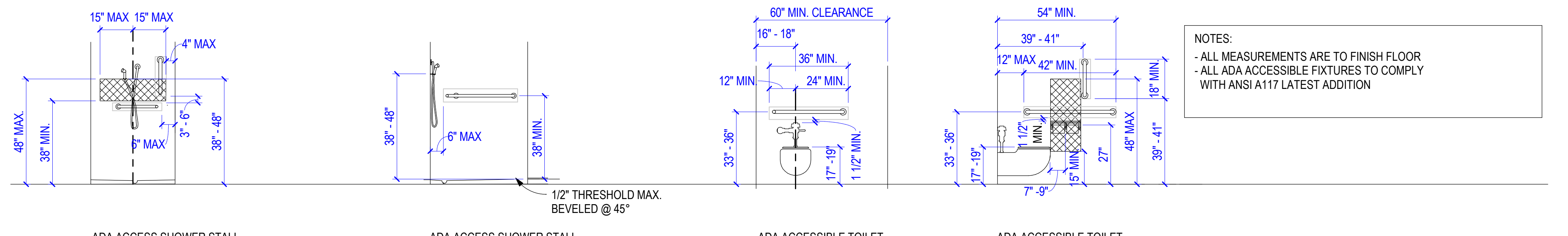
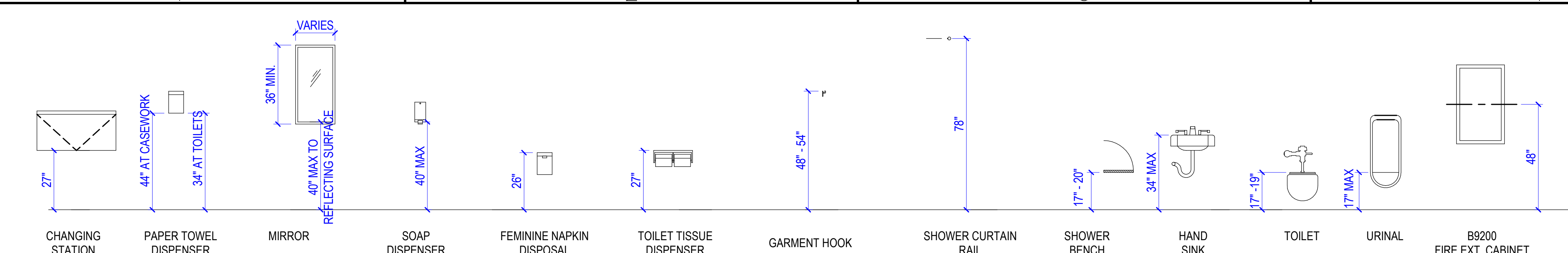


9 UNISEX SHOWER - SINK NORTH
3/8\"/>



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ENLARGED PLANS AND INTERIOR ELEVATIONS

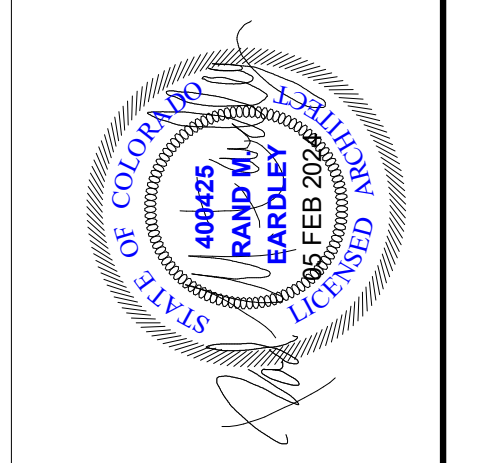


NOTES:
 - ALL MEASUREMENTS ARE TO FINISH FLOOR
 - ALL ADA ACCESSIBLE FIXTURES TO COMPLY WITH ANSI A117 LATEST ADDITION

TYPICAL TOILET ACCESSORIES

- INTERIOR ELEVATION GENERAL NOTES**
- ALL DIMENSIONS ARE TO FACE OF STUD IN NEW CONSTRUCTION, FACE OF FINISH IN EXISTING.
 - COORDINATE LOCATIONS OF ALL FLOOR WITH PLUMBING PLANS.

- KEYED NOTES**
- 09.04 TILE WALL BASE
 - 09.14 RUBBER BASE
 - 09.15 1/4" CEMENT BOARD TILE BACKING AT FLOOR, SECOND FLOOR ONLY
 - 10.07 NO SHARP OR ABRASIVE SURFACES ALLOWED UNDER SINK, INSULATE WATER SUPPLY AND DRAIN PIPES UNDER SINK WITH PROTECTIVE SLEEVE TO PROTECT AGAINST CONTACT
 - 10.08 GARMET HOOK
 - 11.03 REFRIGERATOR
 - 11.05 MINI FRIDGE
 - 12.04 FINISH CABINET SIDE PANEL
 - 12.06 22" DEEP COUNTER
 - 12.07 25" DEEP COUNTER
 - 12.08 31" DEEP COUNTER
 - 22.13 DRINKING FOUNTAIN



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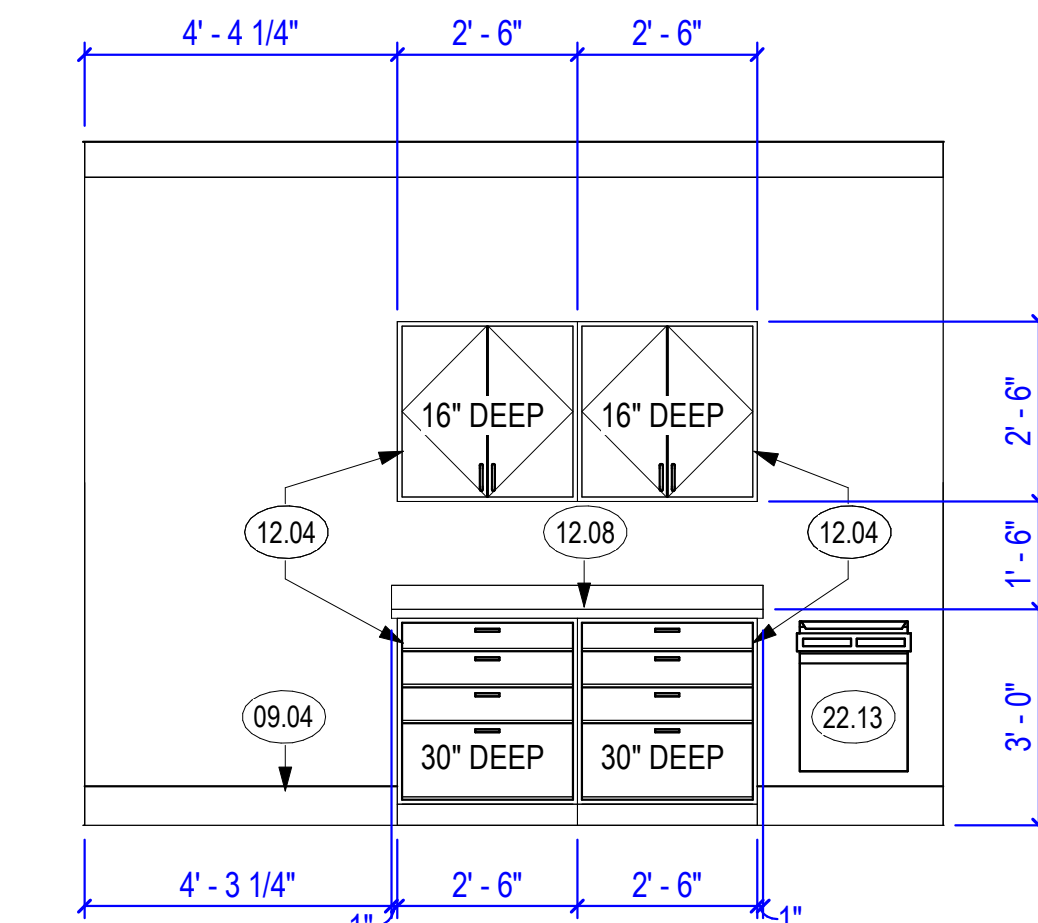
Rev.	Description	Date	Appr.

Designed by:	RME	Submitted:	05 FEB 2024
Drawn by:	WAR	File:	
Reviewed by:	JTP	Scale:	As indicated
Submitted by:		Project Number:	

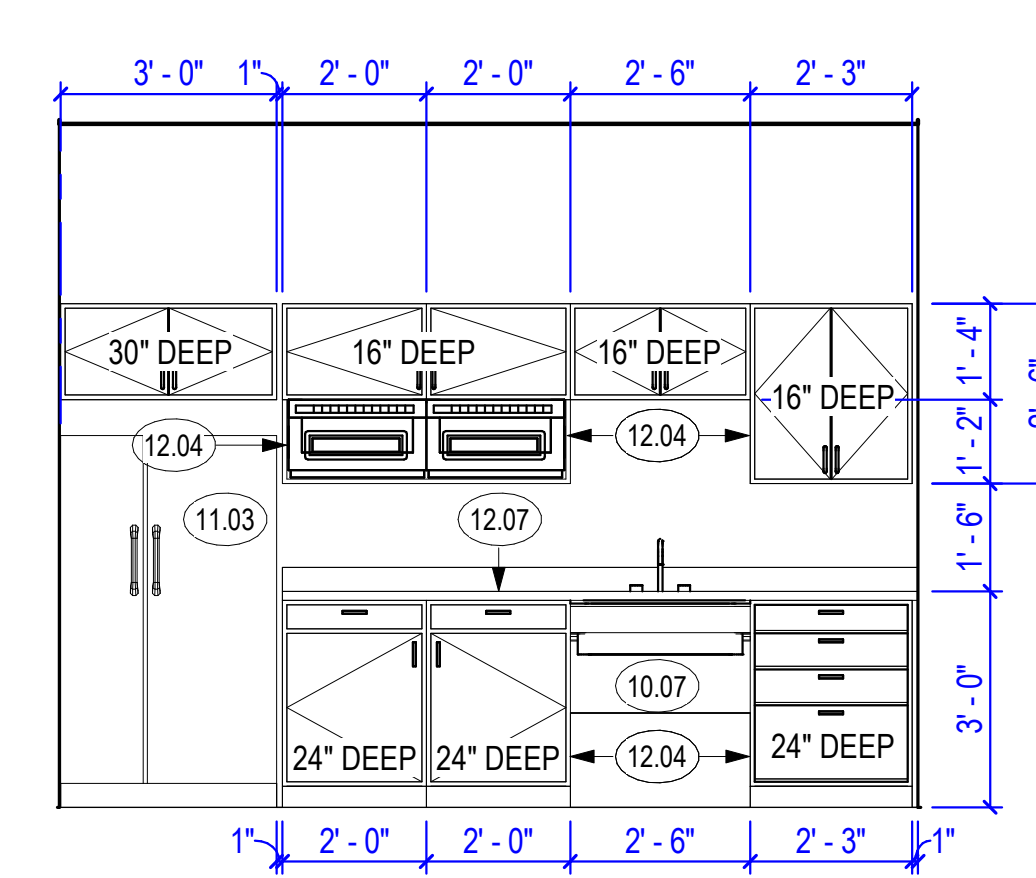
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 Real Color Holdings, LLC
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ENLARGED PLANS AND INTERIOR ELEVATIONS

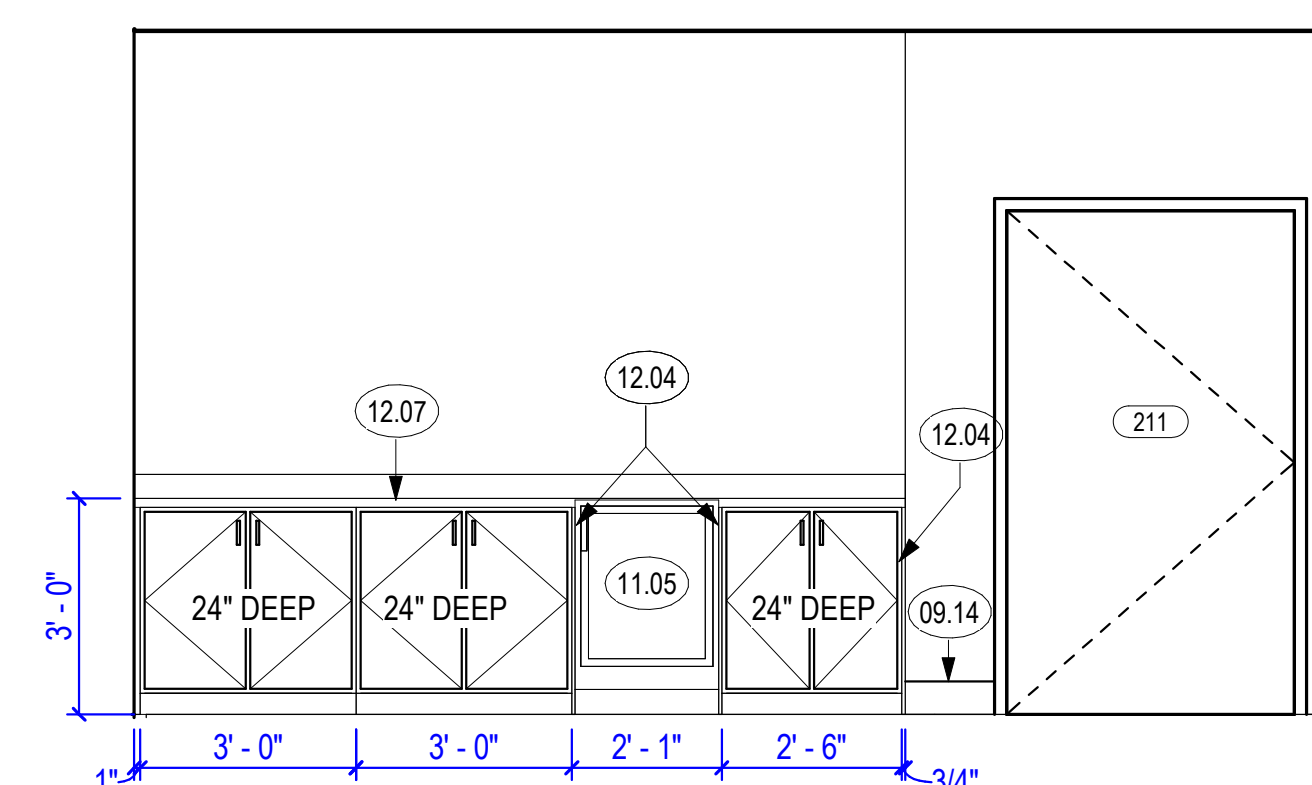
SHEET NUMBER
A-402



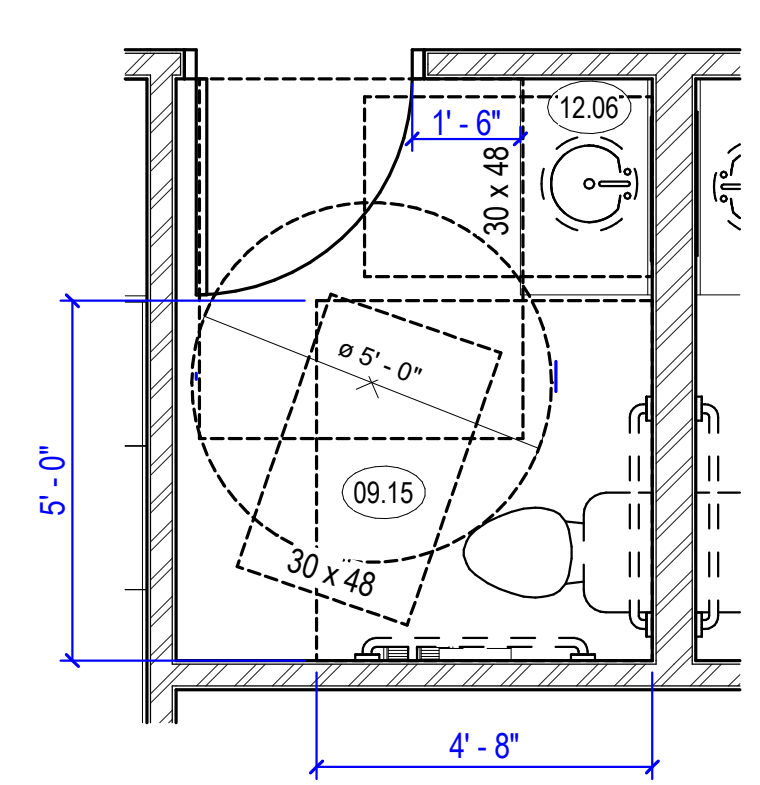
3 2ND FLOOR COPY AREA
 3/8" = 1'-0"



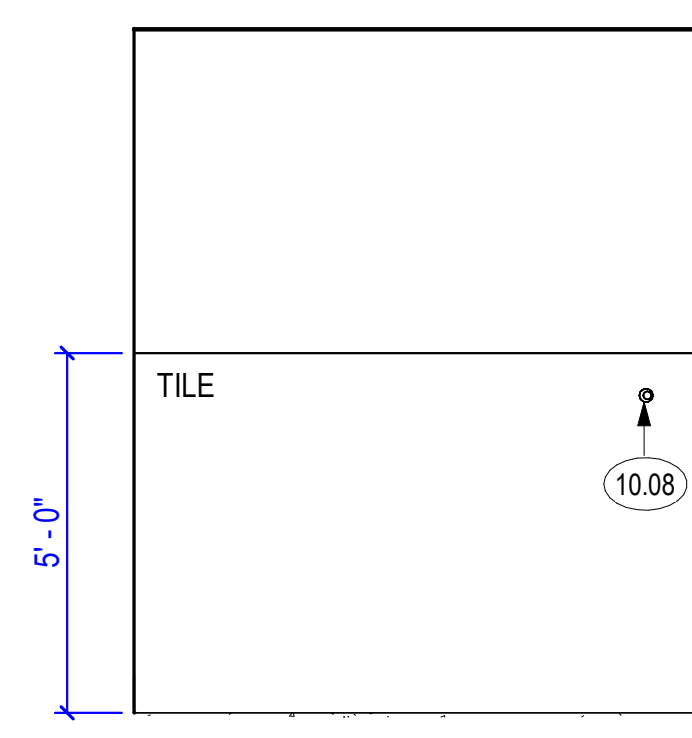
2 2ND FLOOR BREAKROOM
 3/8" = 1'-0"



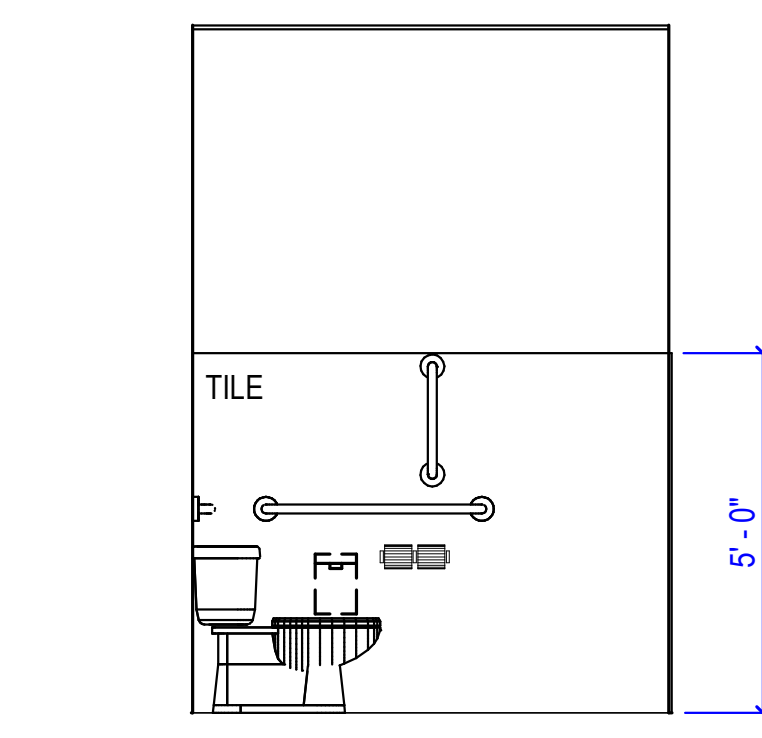
1 LARGE WORK ROOM - WEST
 3/8" = 1'-0"



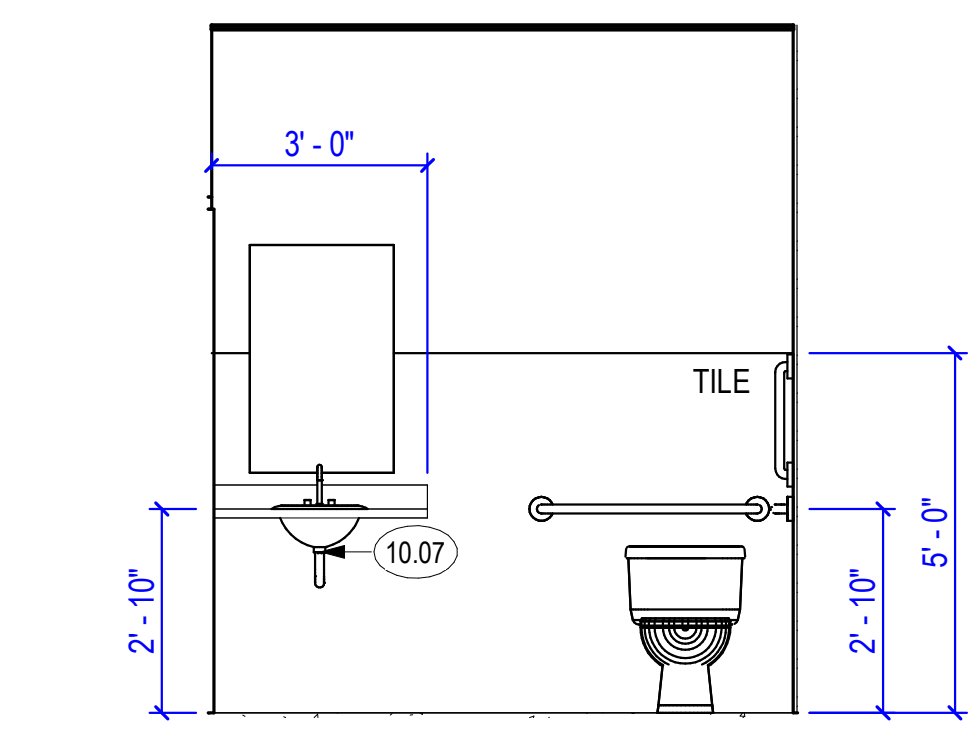
14 TYPICAL RESTROOM PLAN
 3/8" = 1'-0"



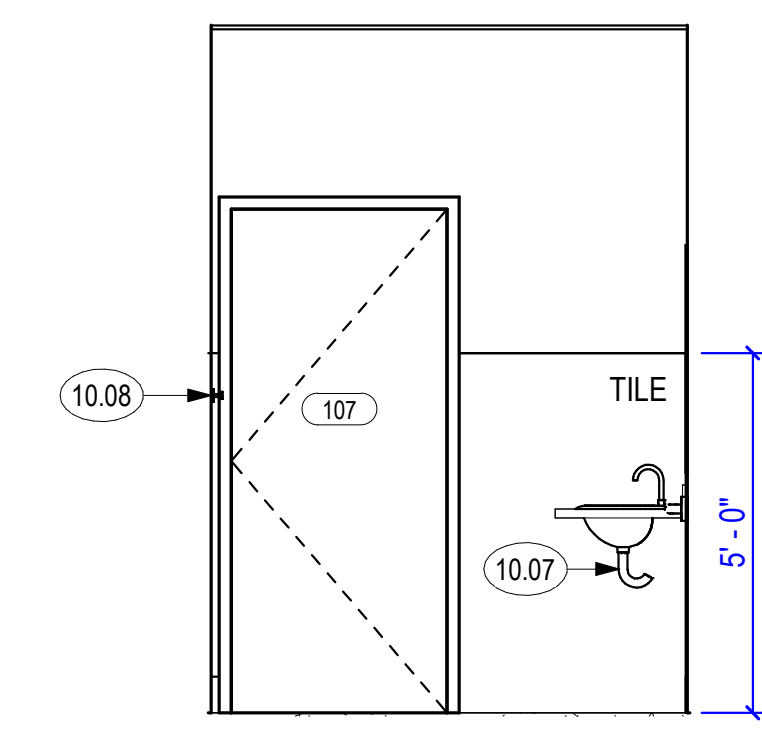
13 TYPICAL RESTROOM HINGE SIDE WALL
 3/8" = 1'-0"



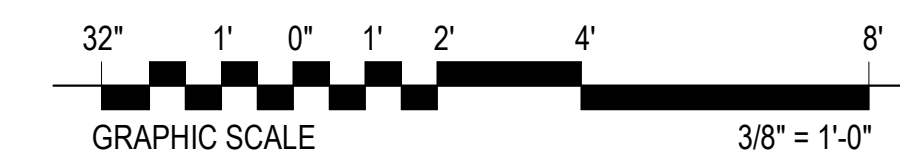
12 TYPICAL RESTROOM BACK WALL
 3/8" = 1'-0"

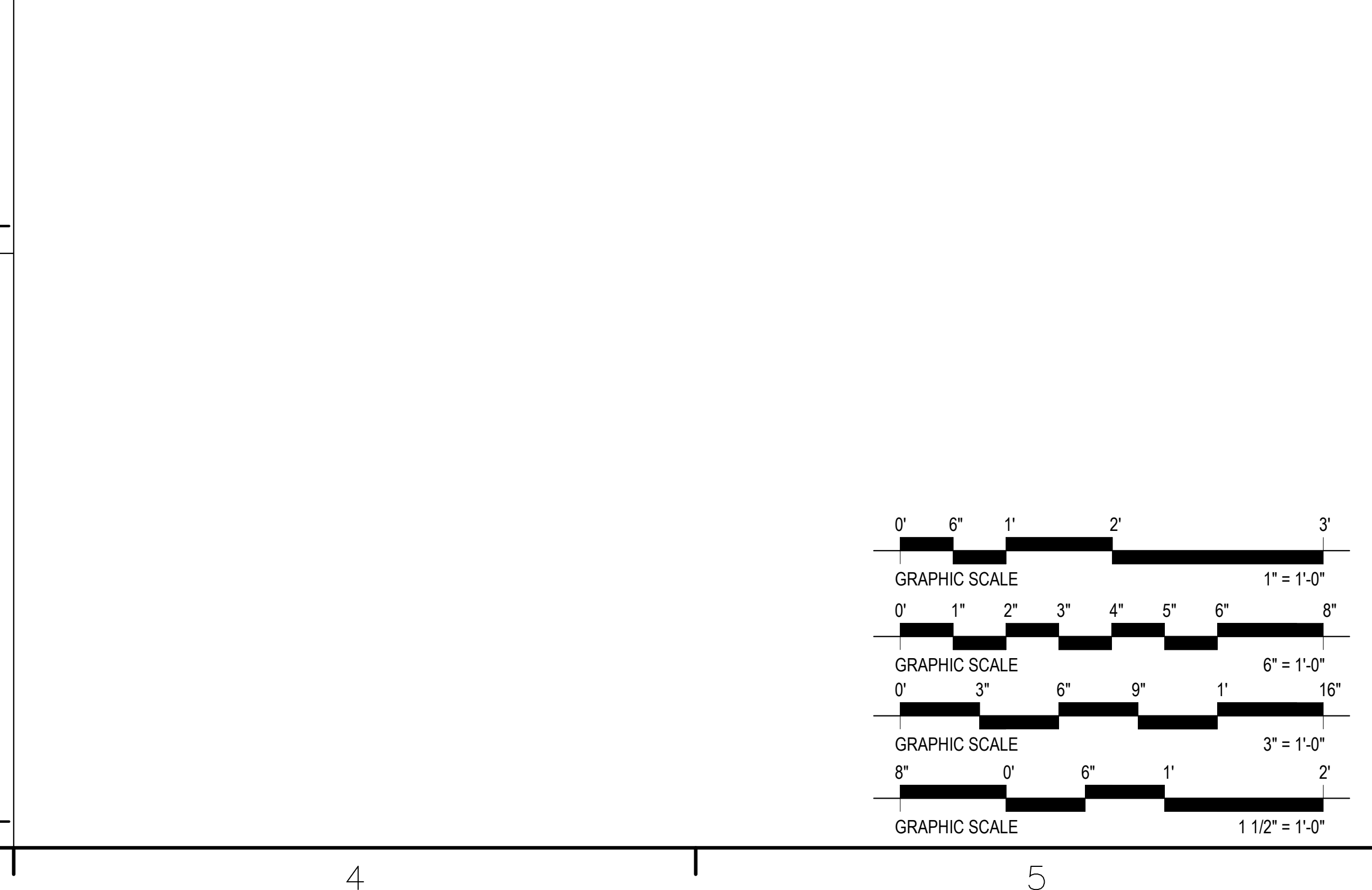
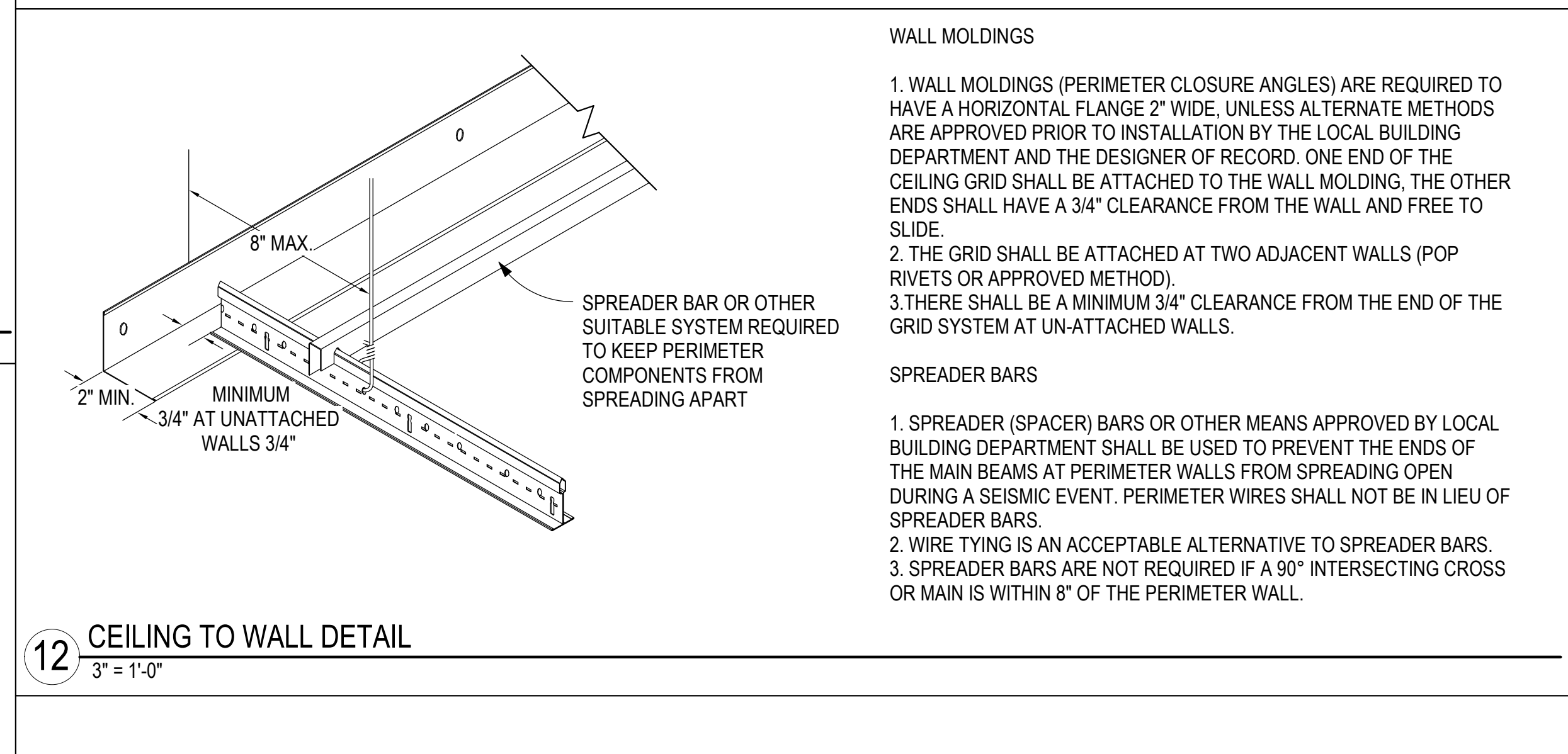
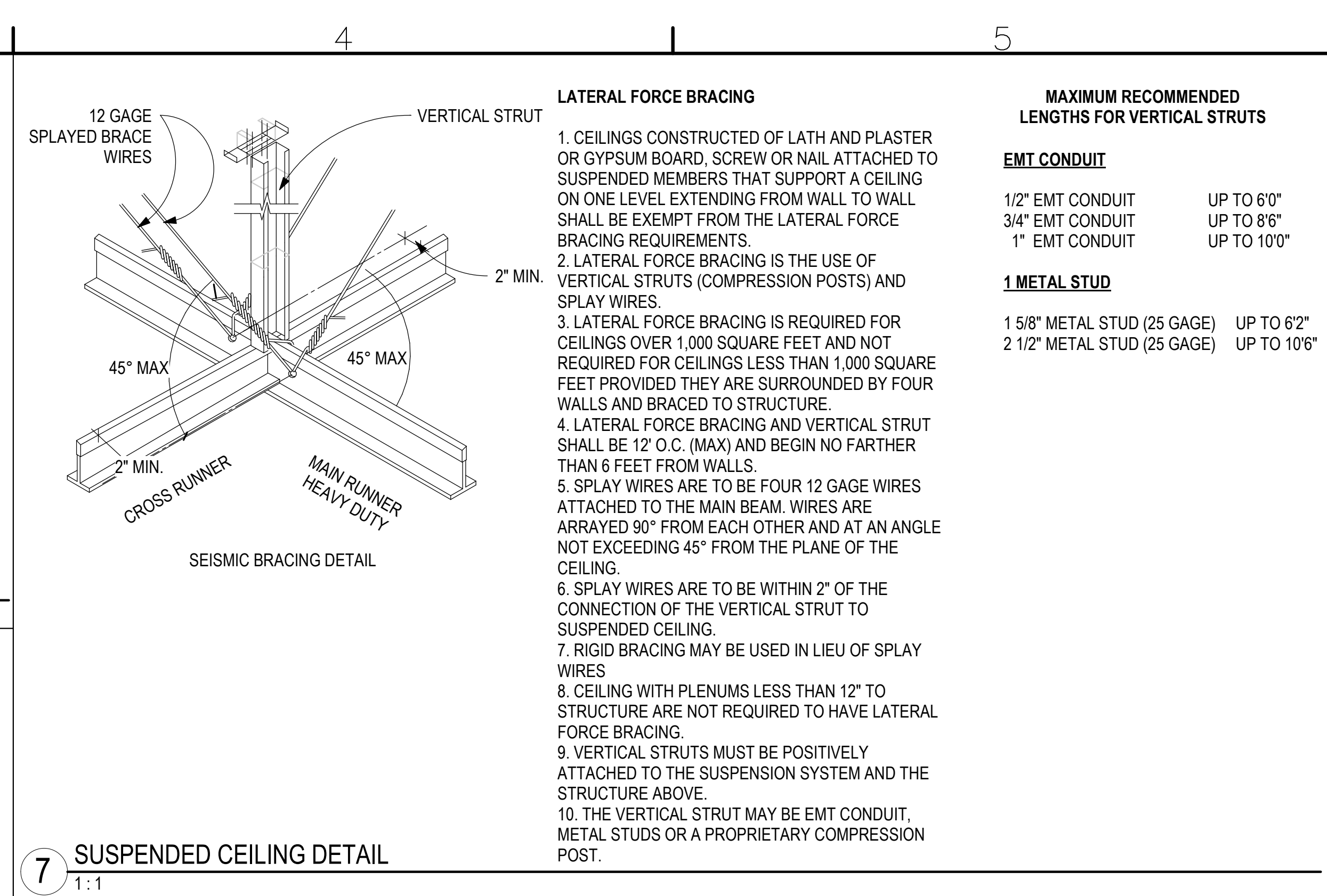
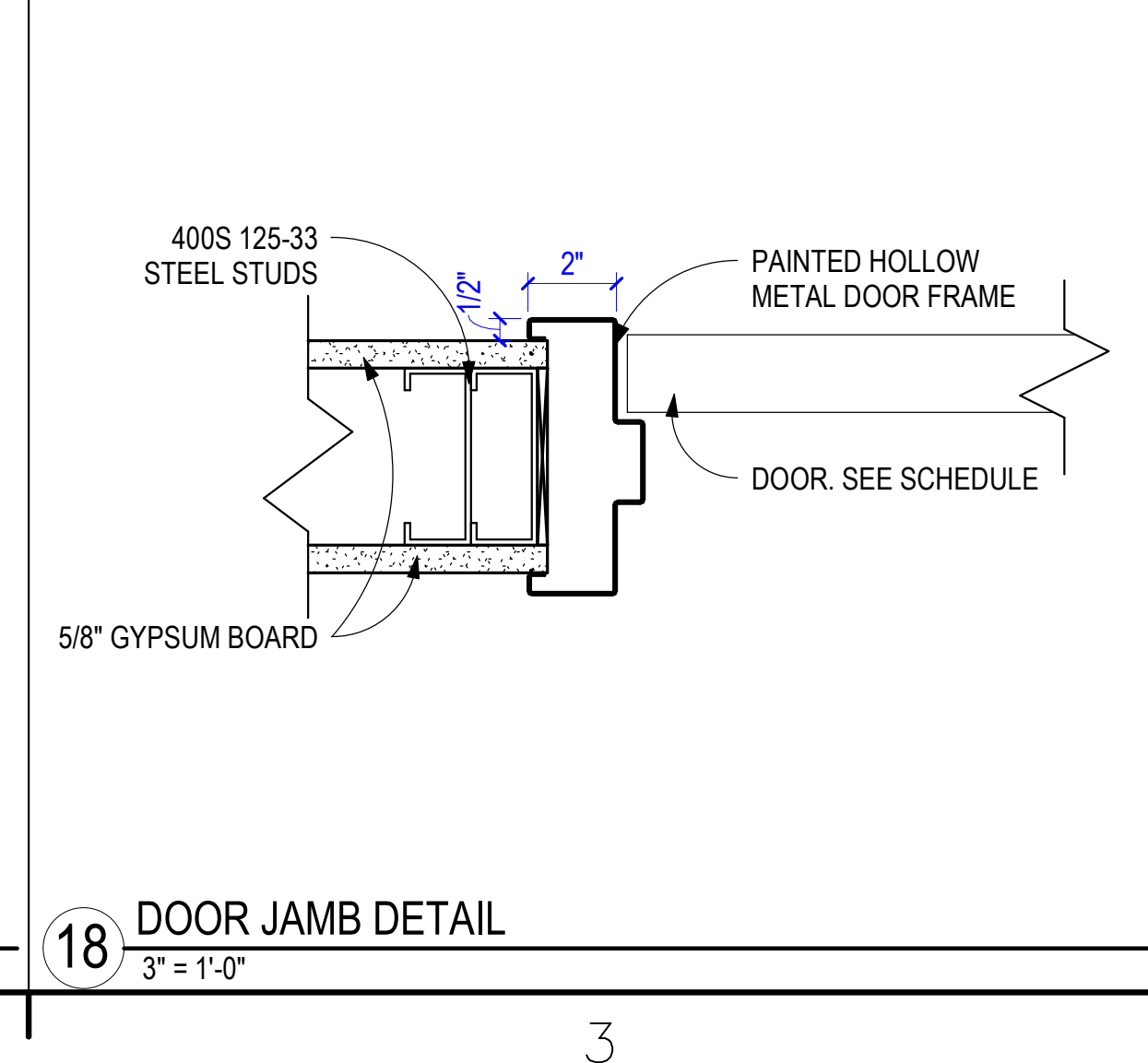
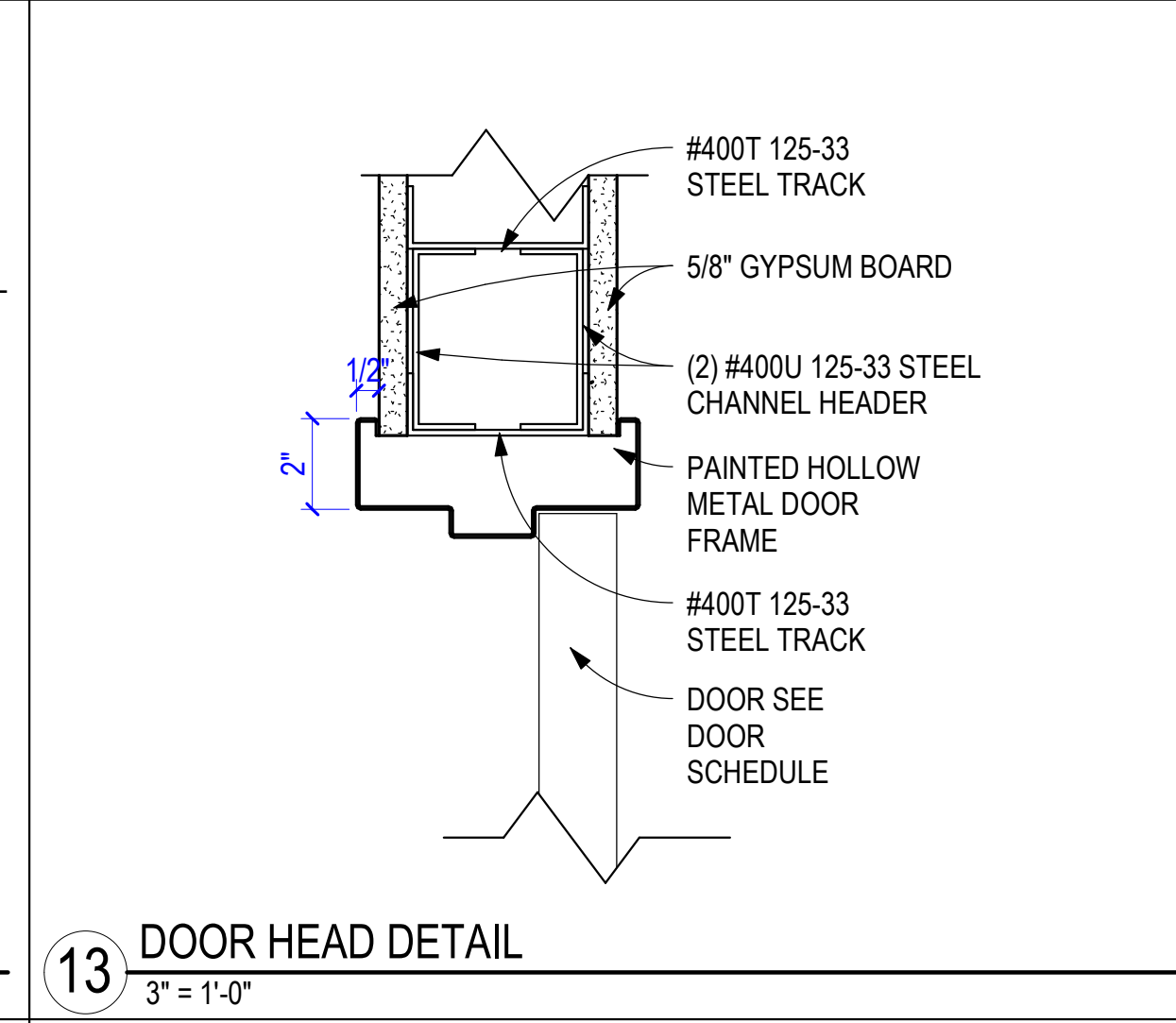
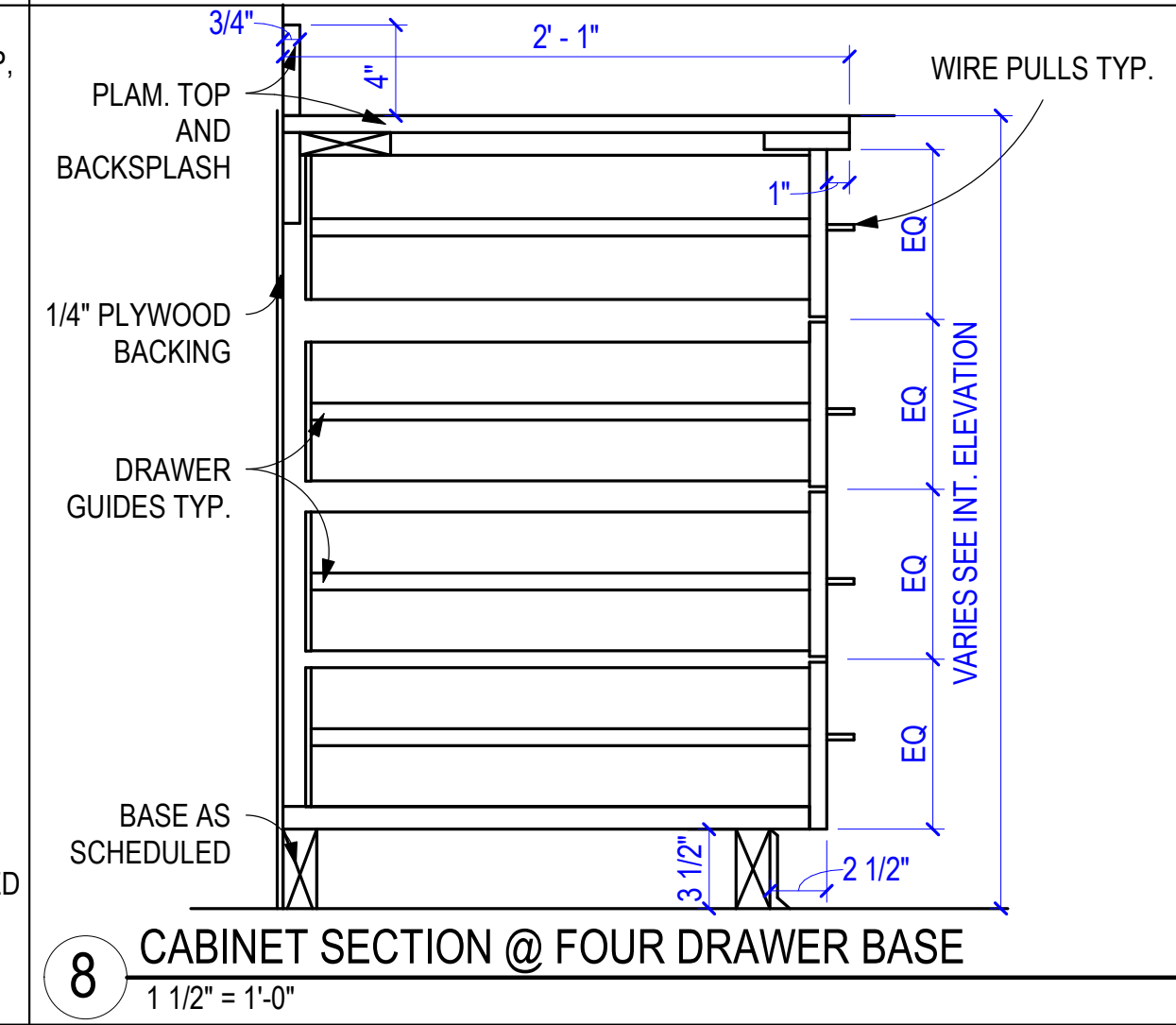
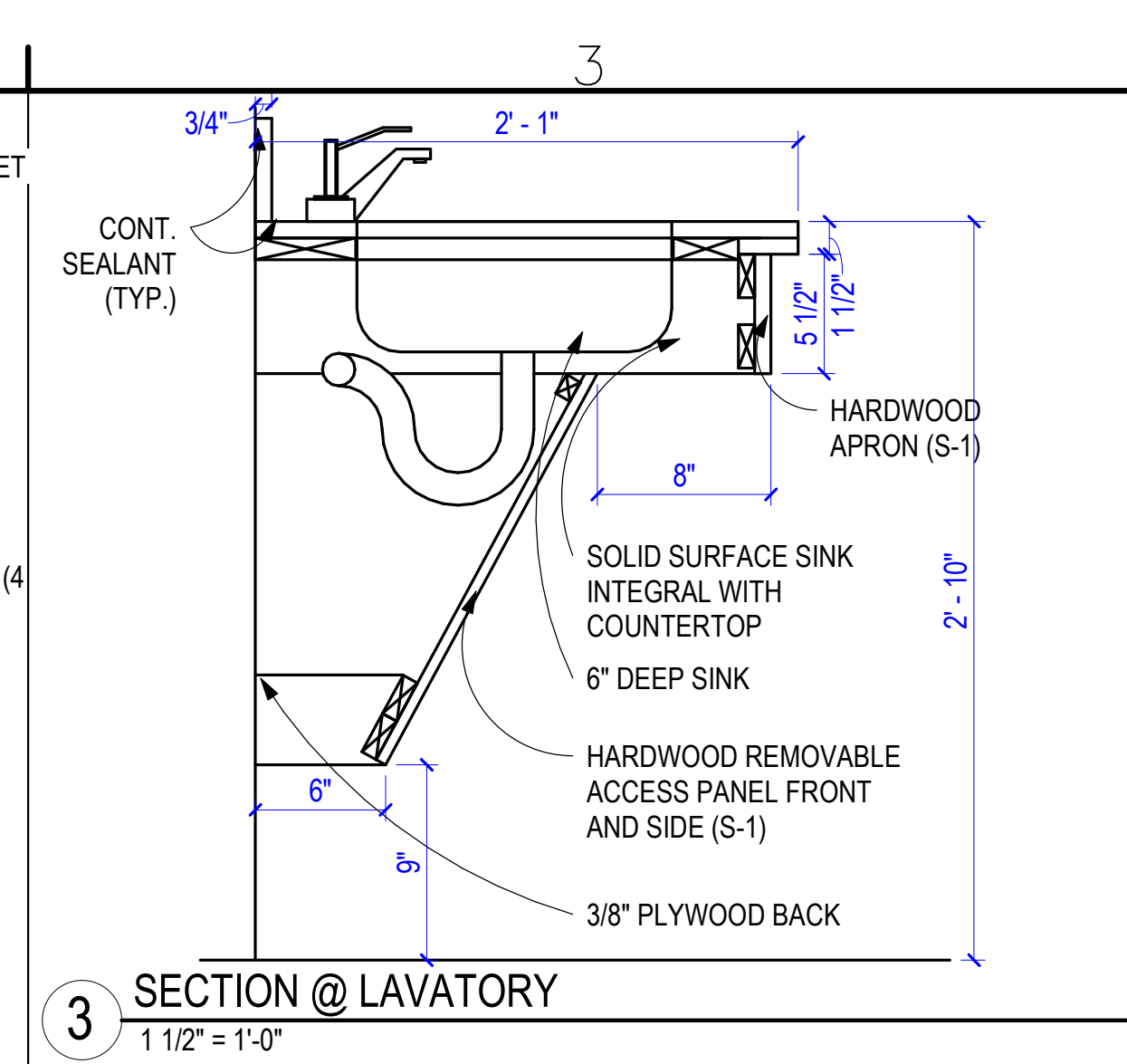
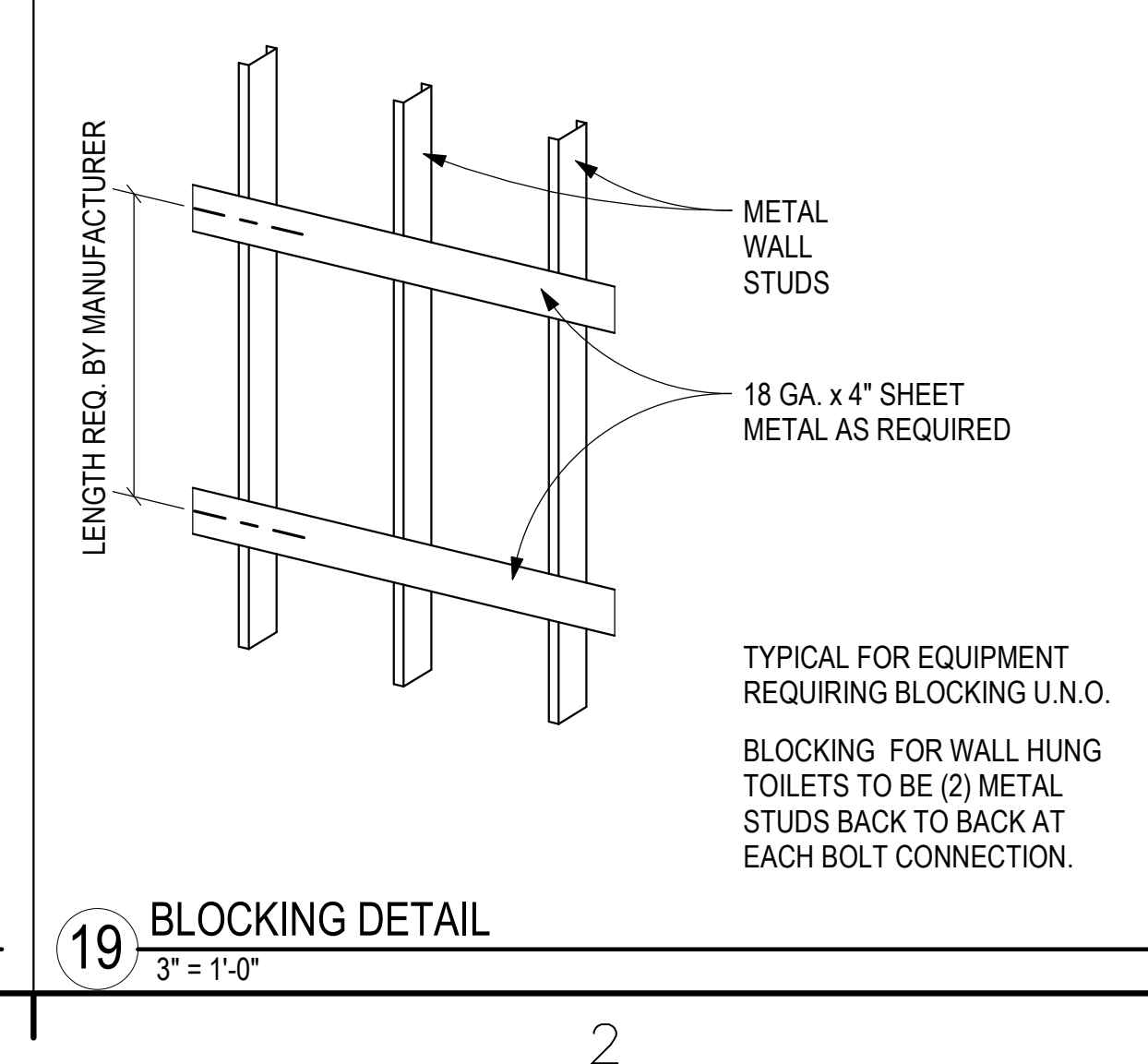
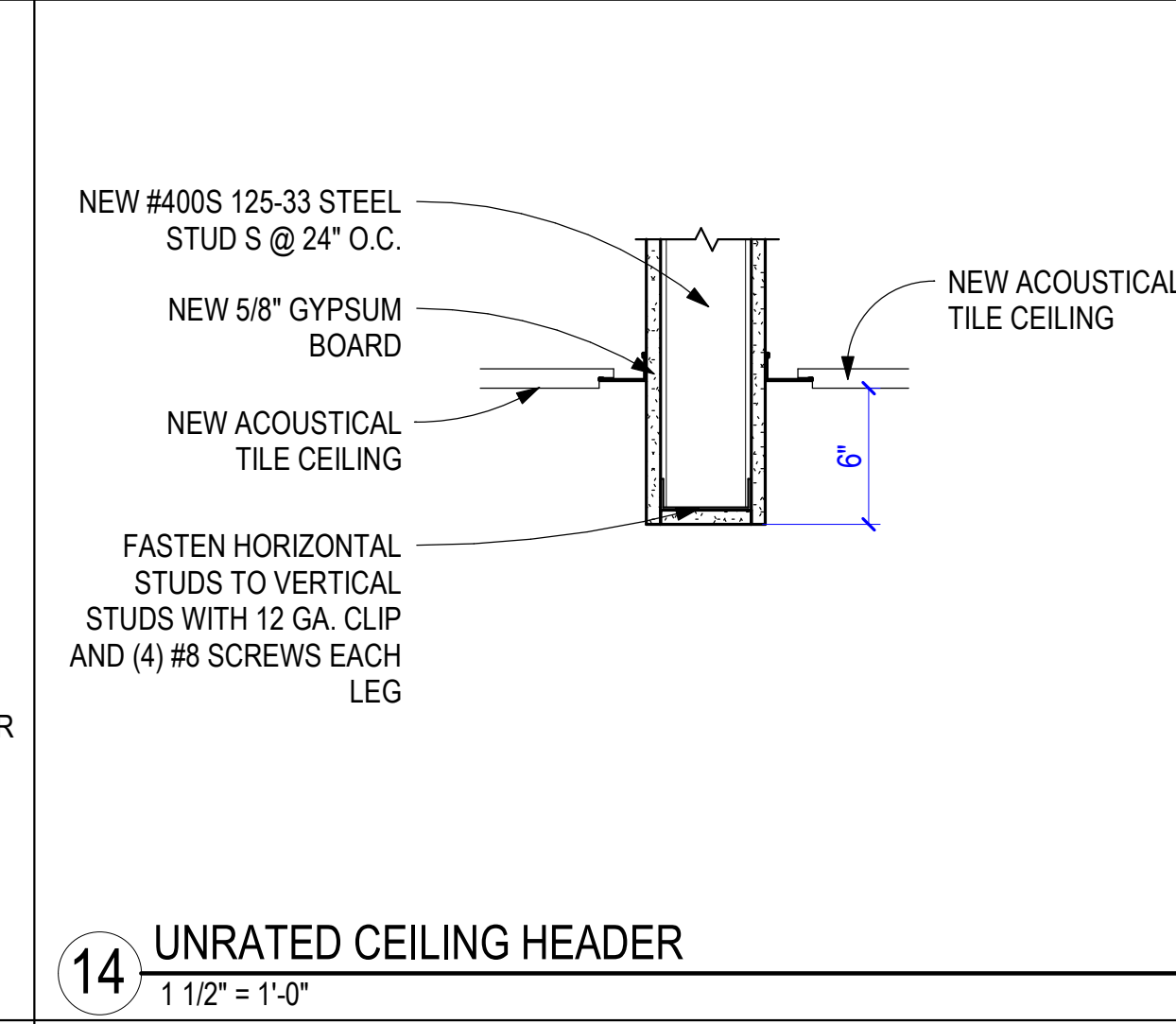
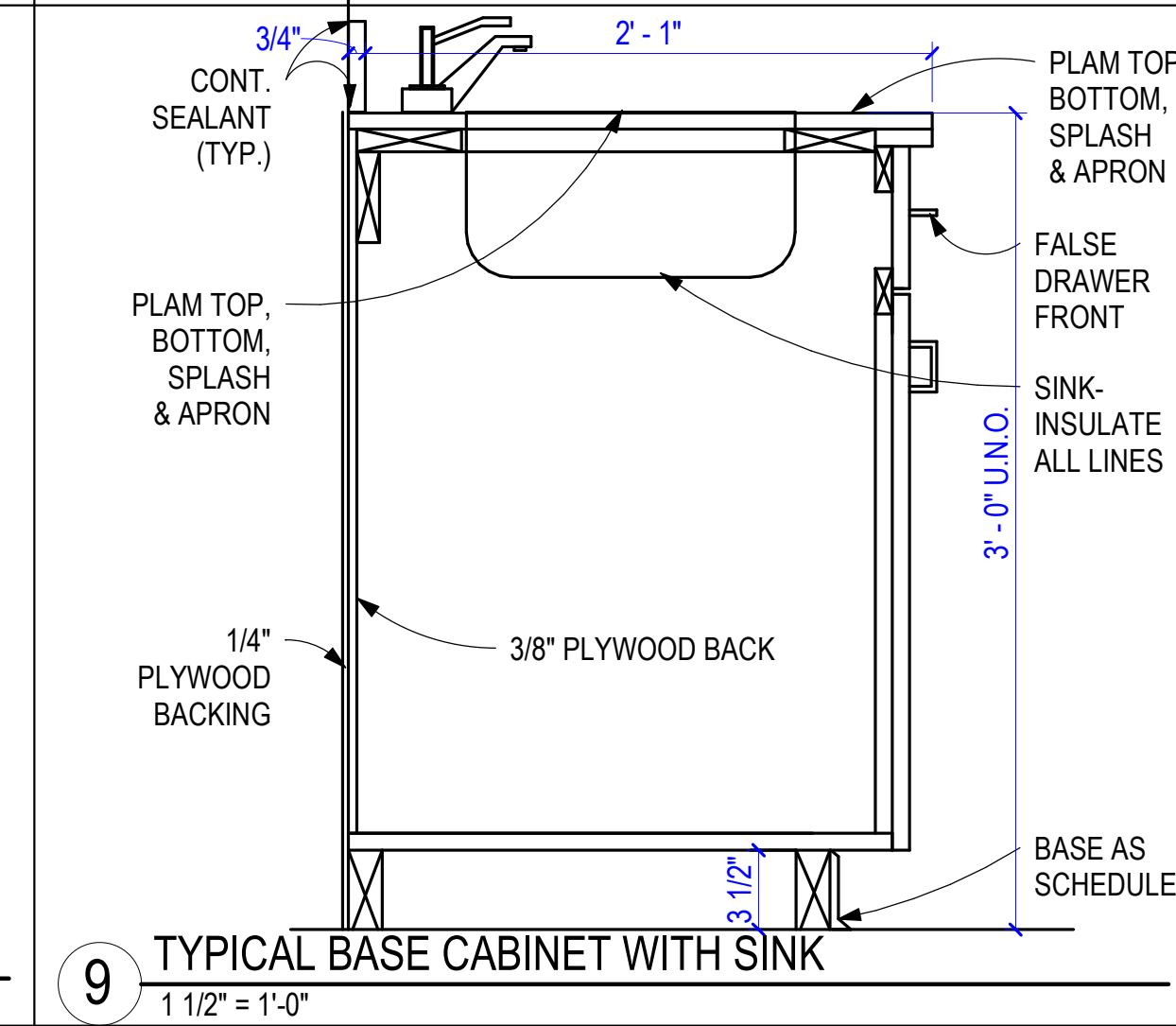
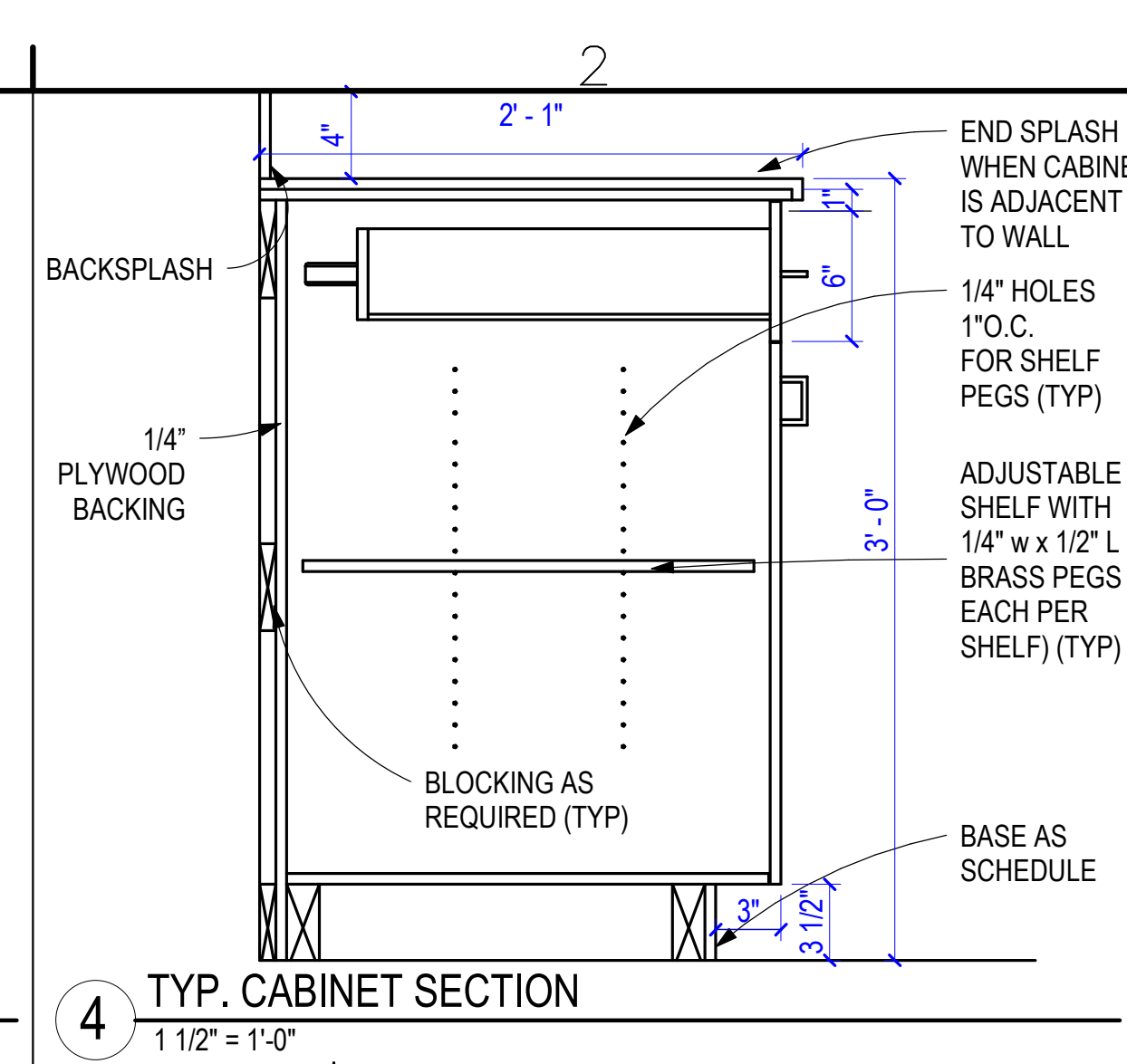
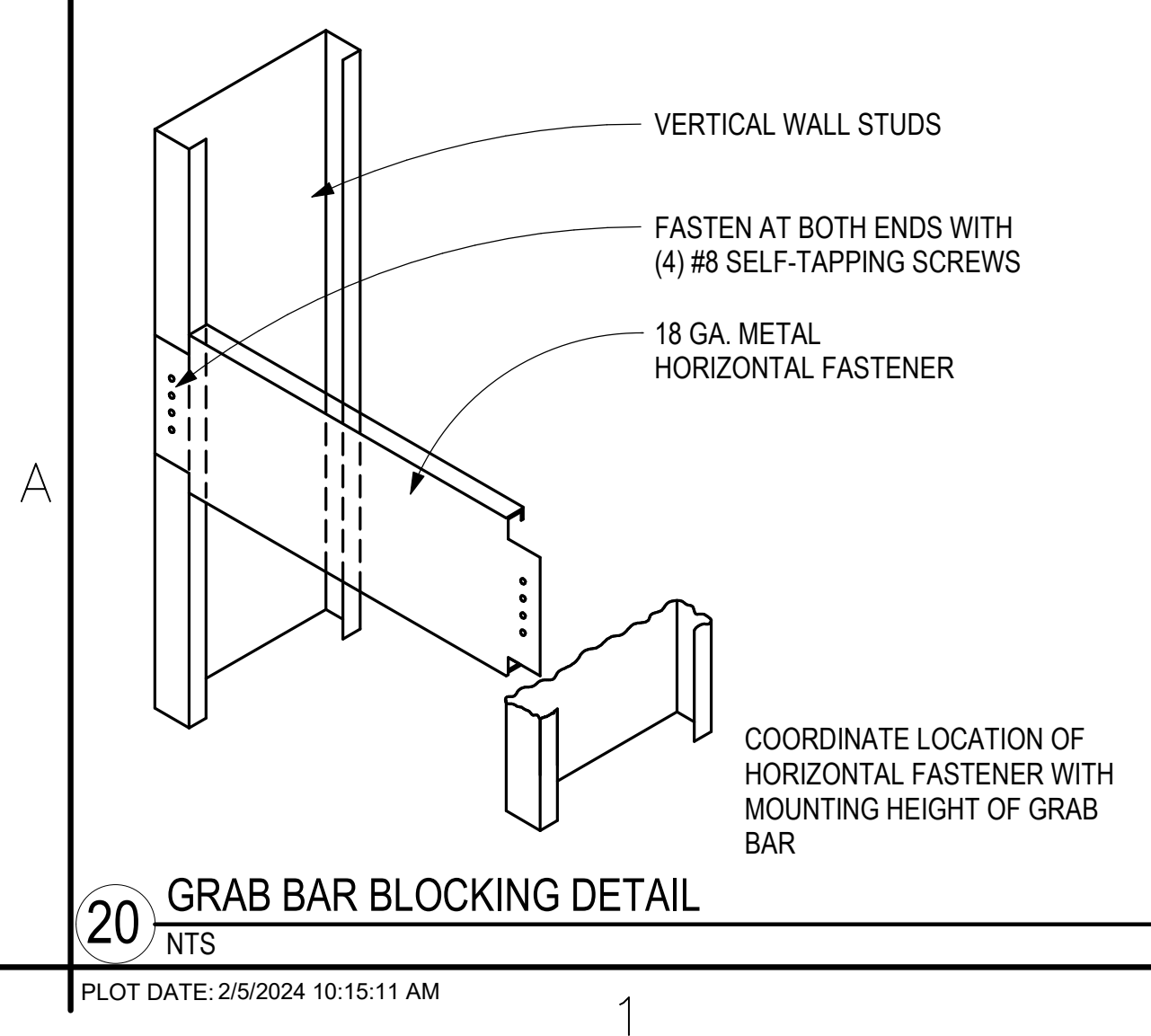
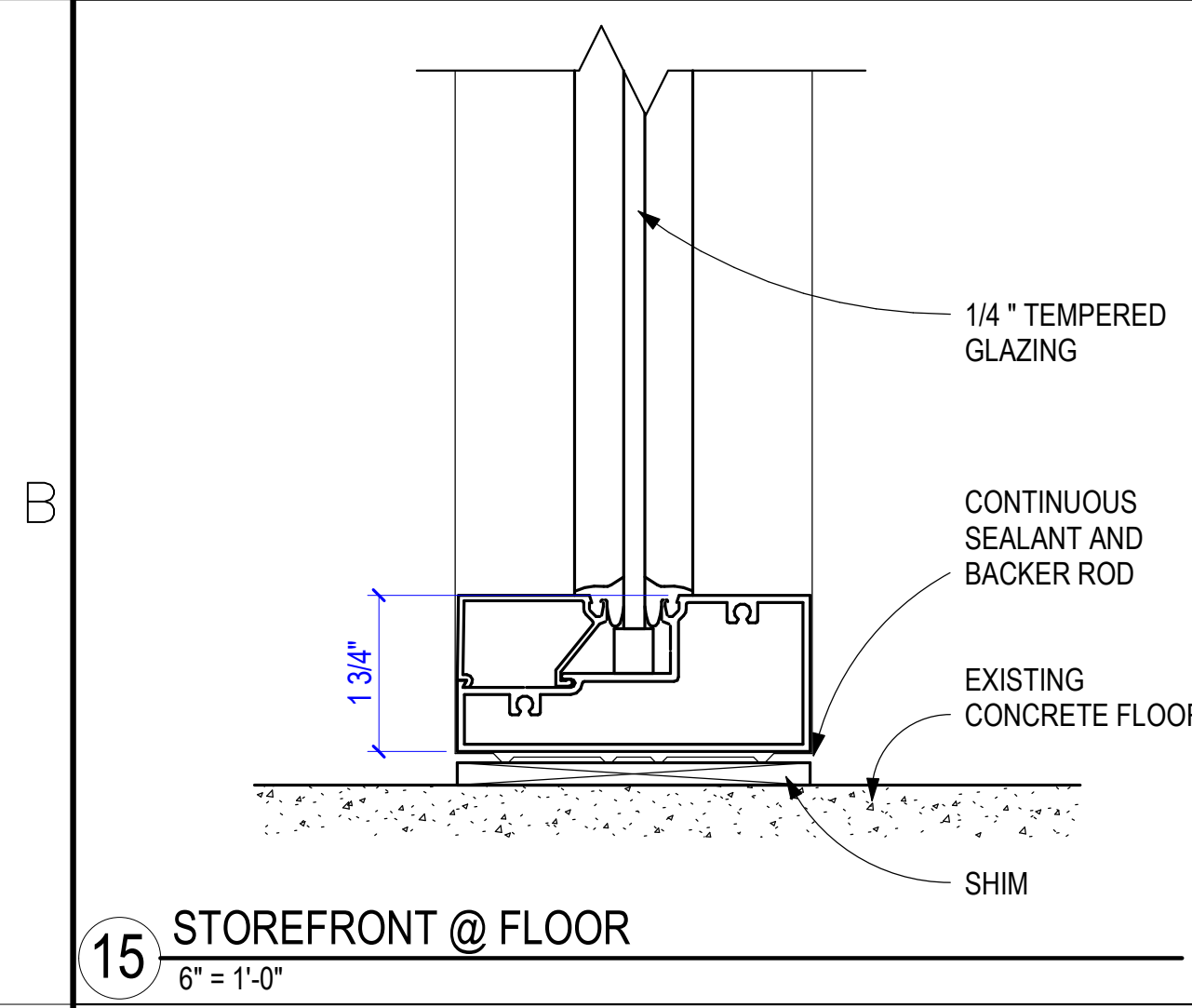
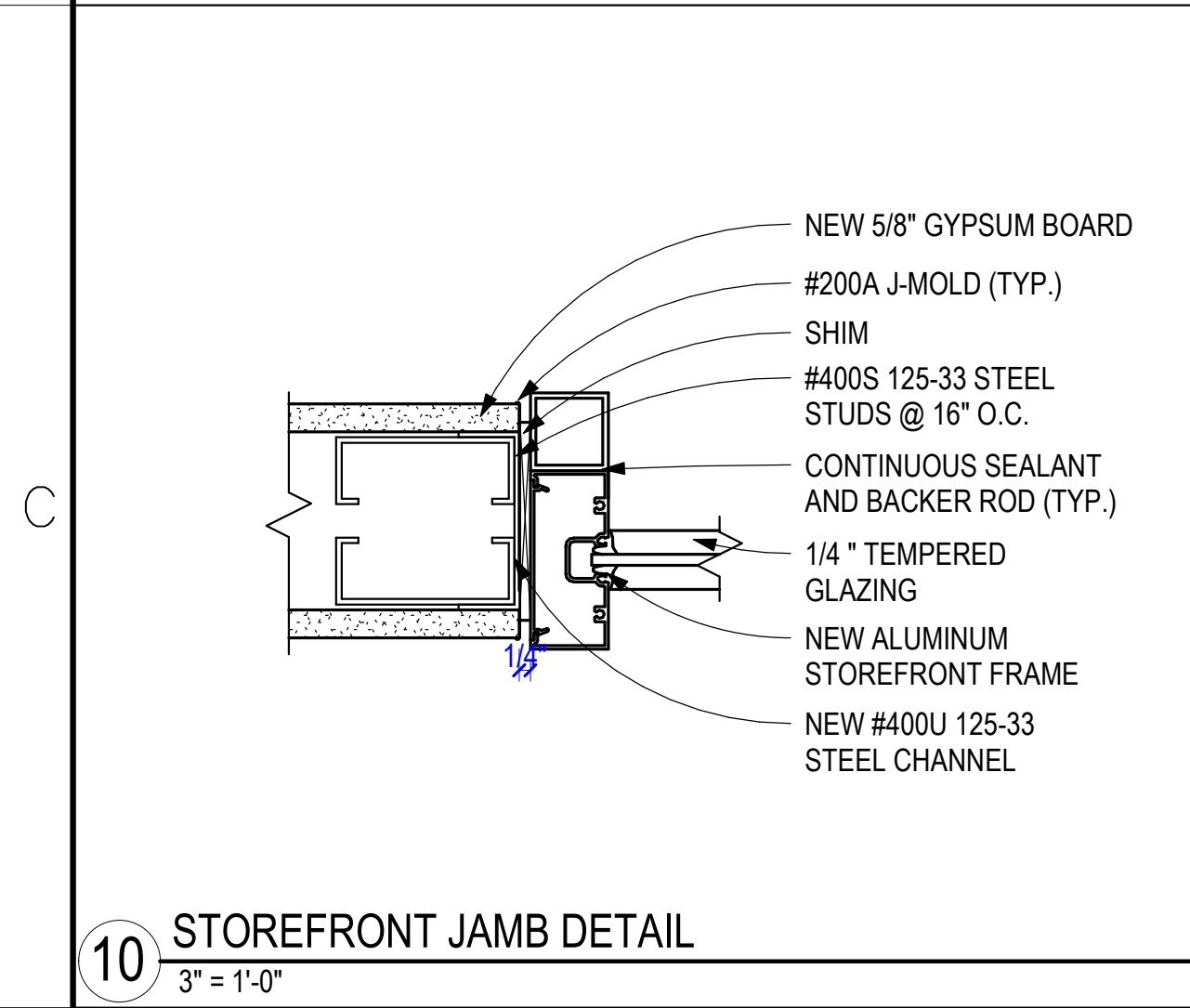
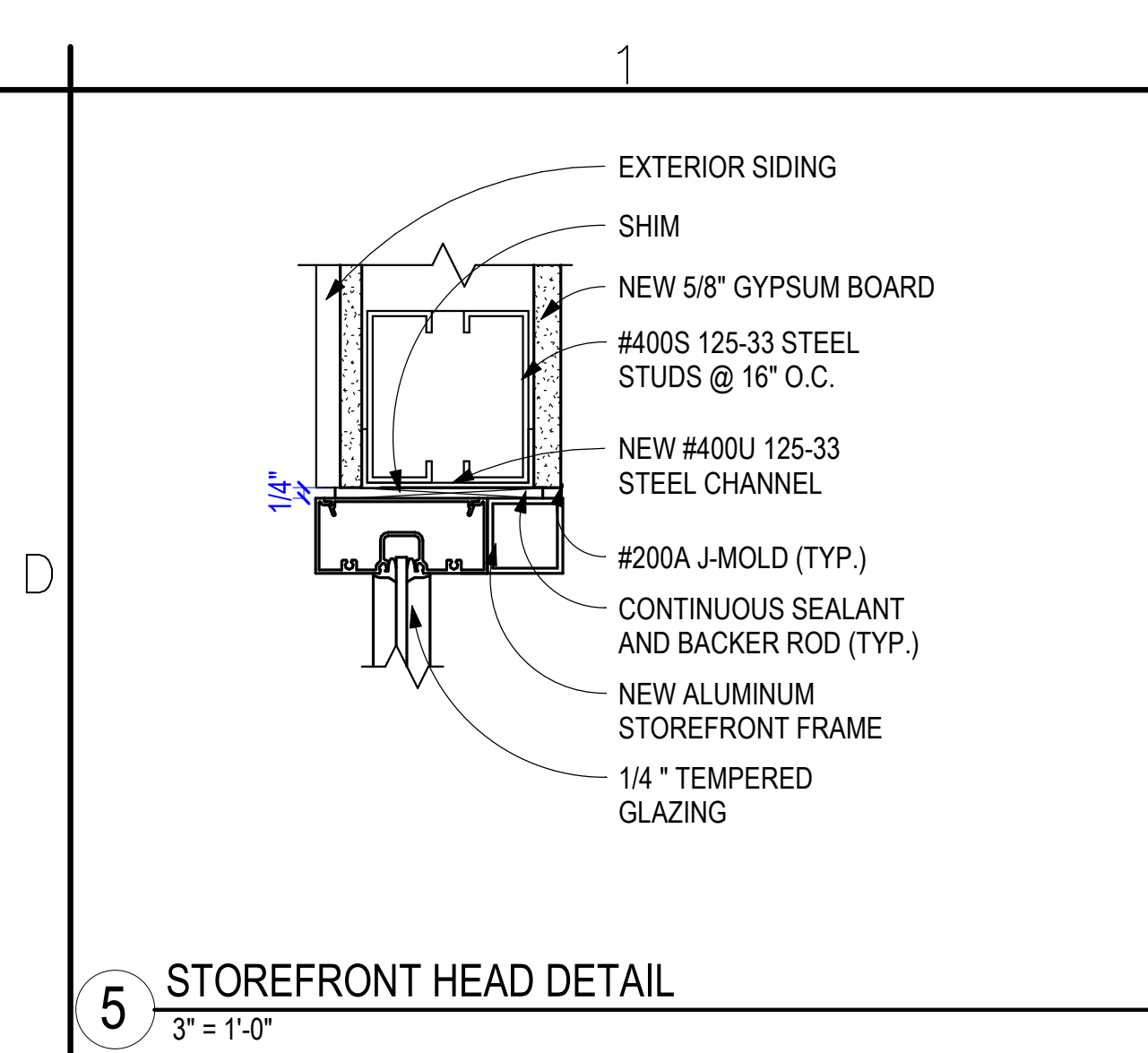


10 TYPICAL RESTROOM PLUMBING WALL
 3/8" = 1'-0"

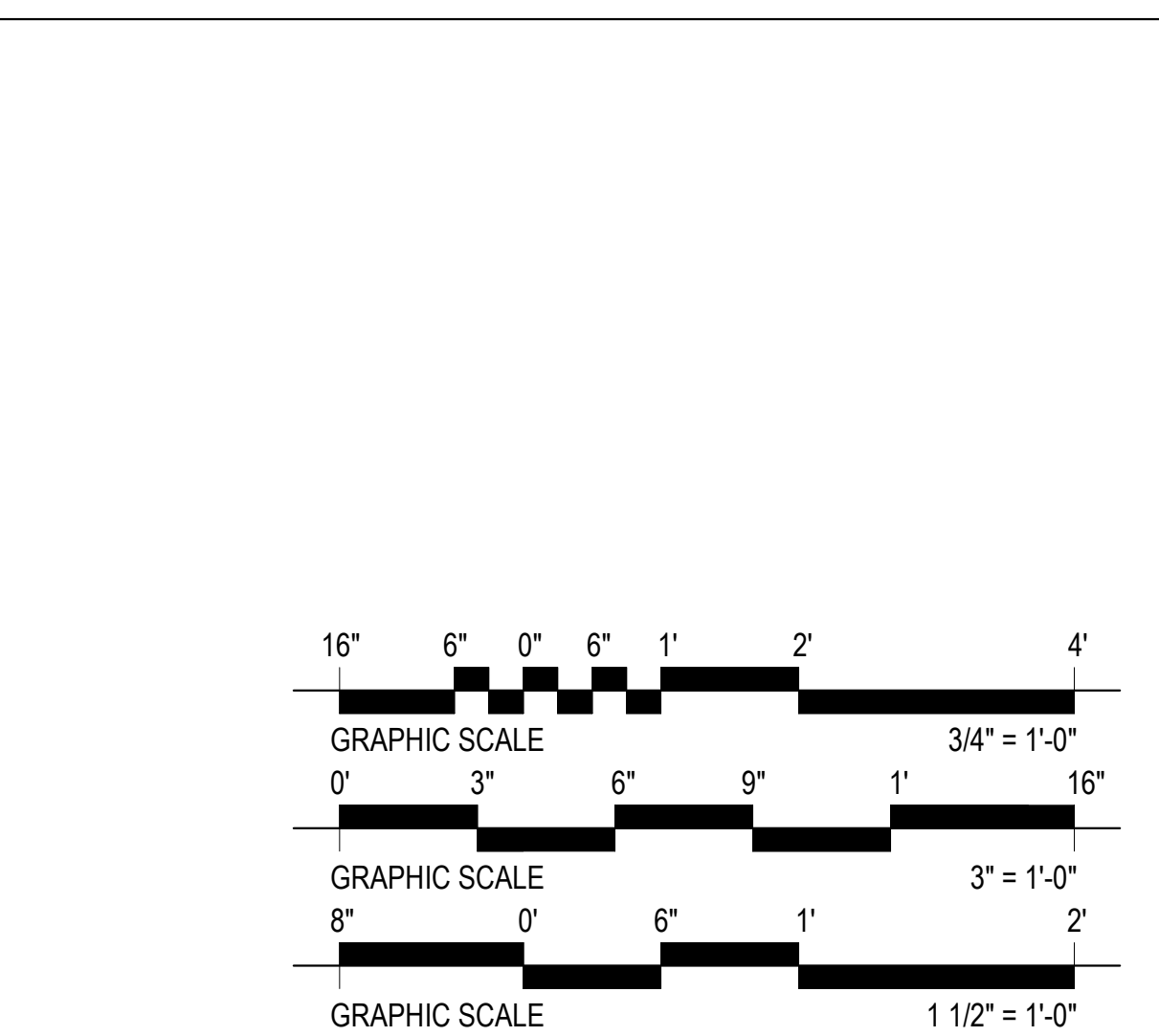
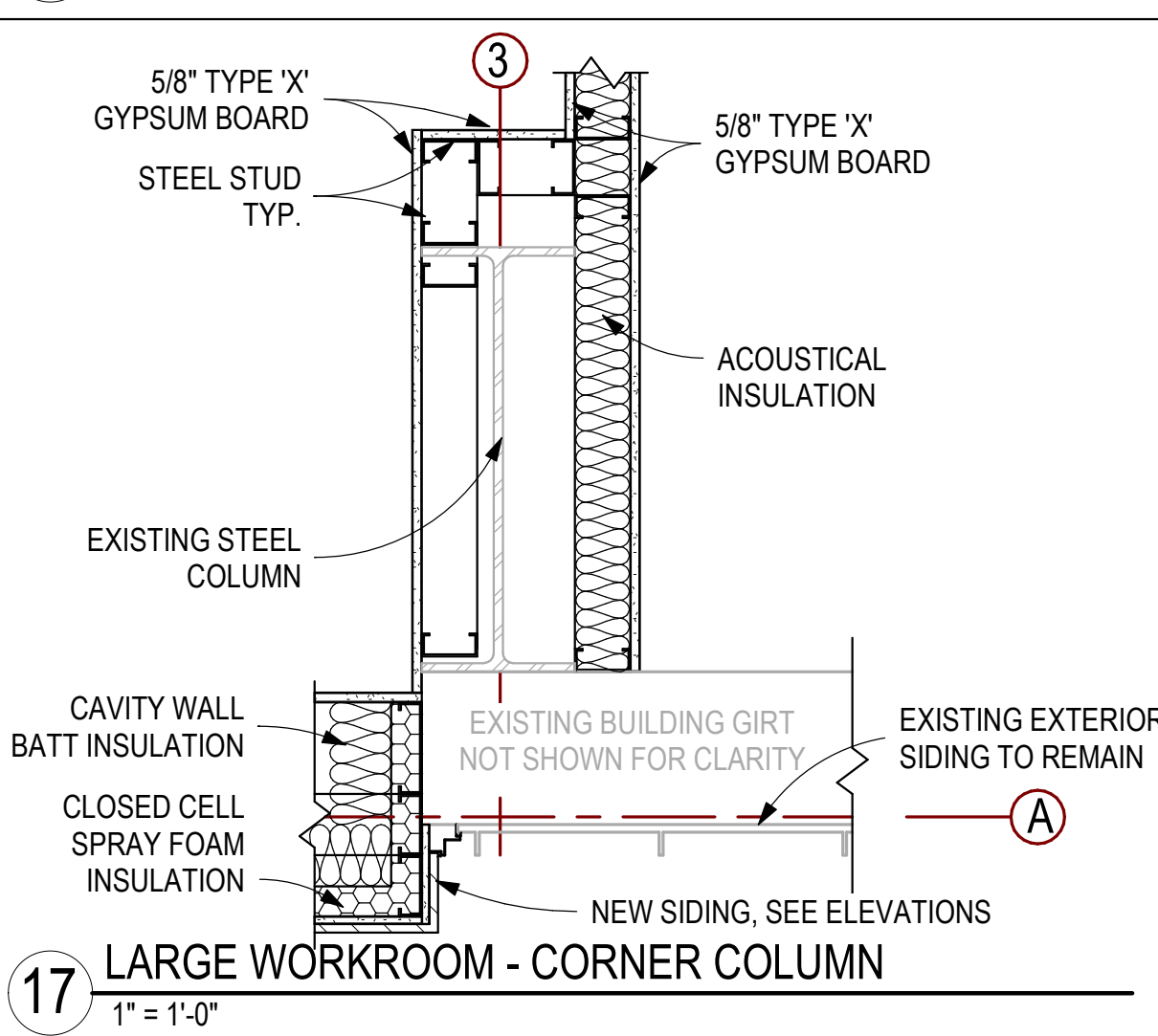
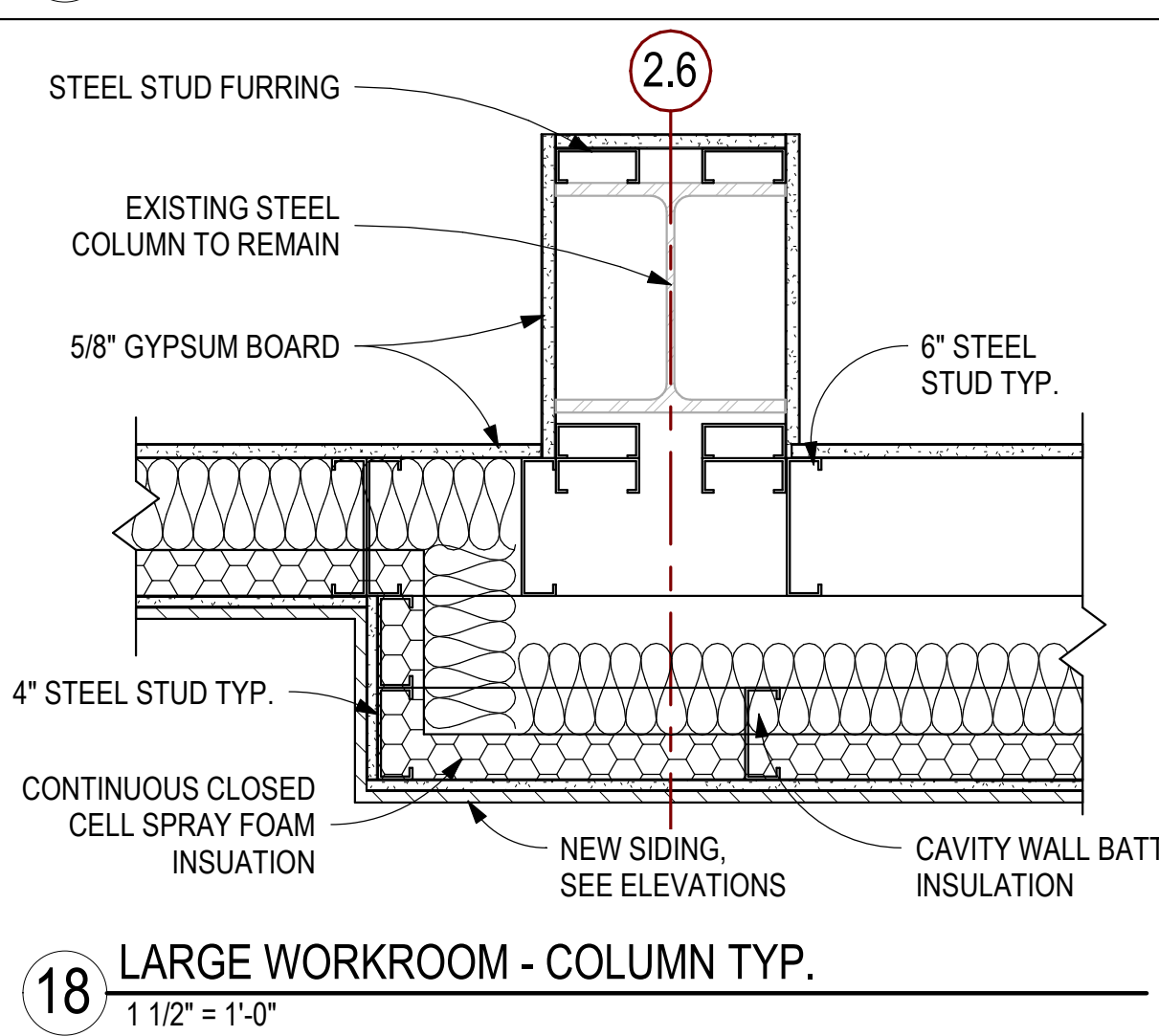
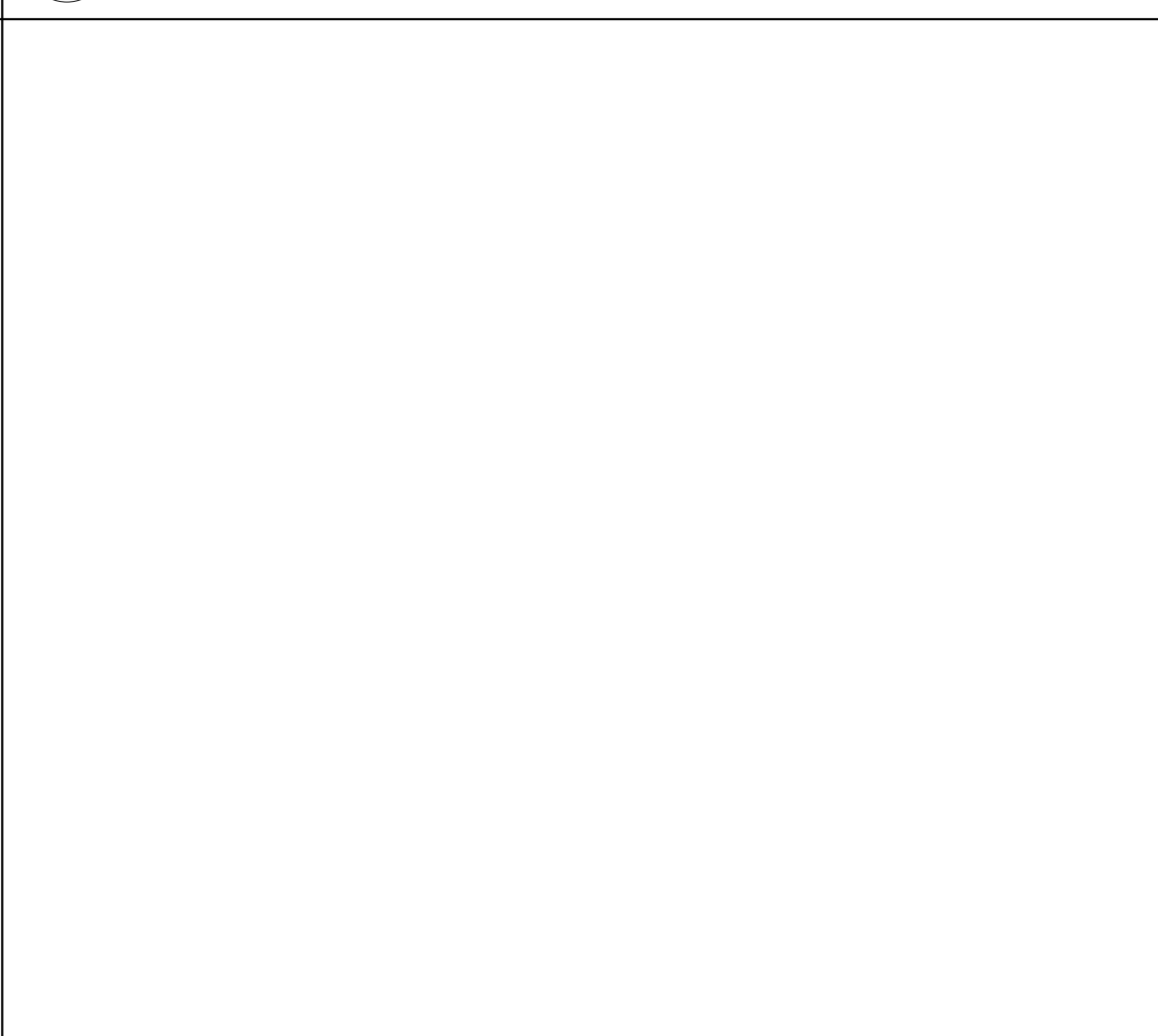
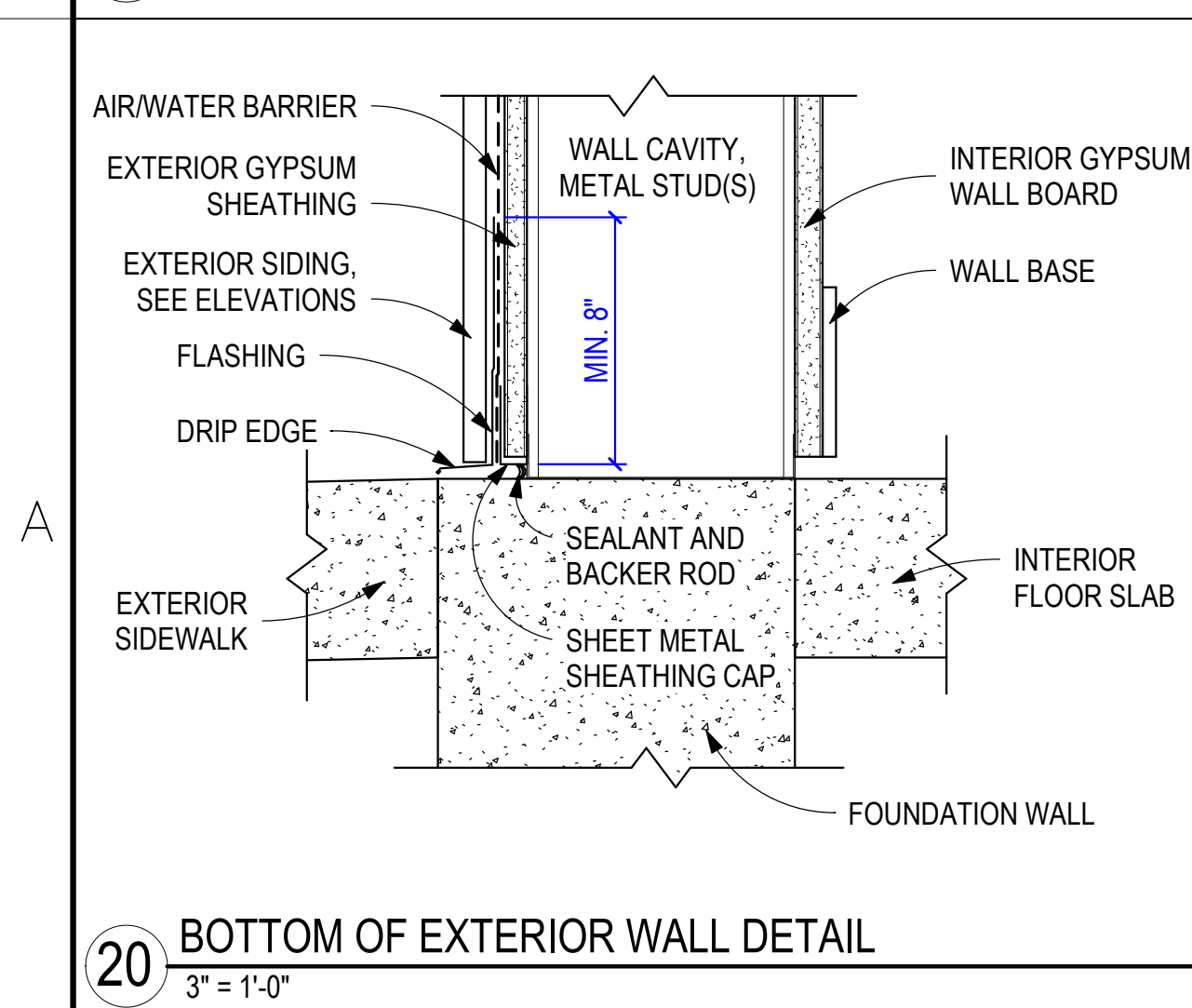
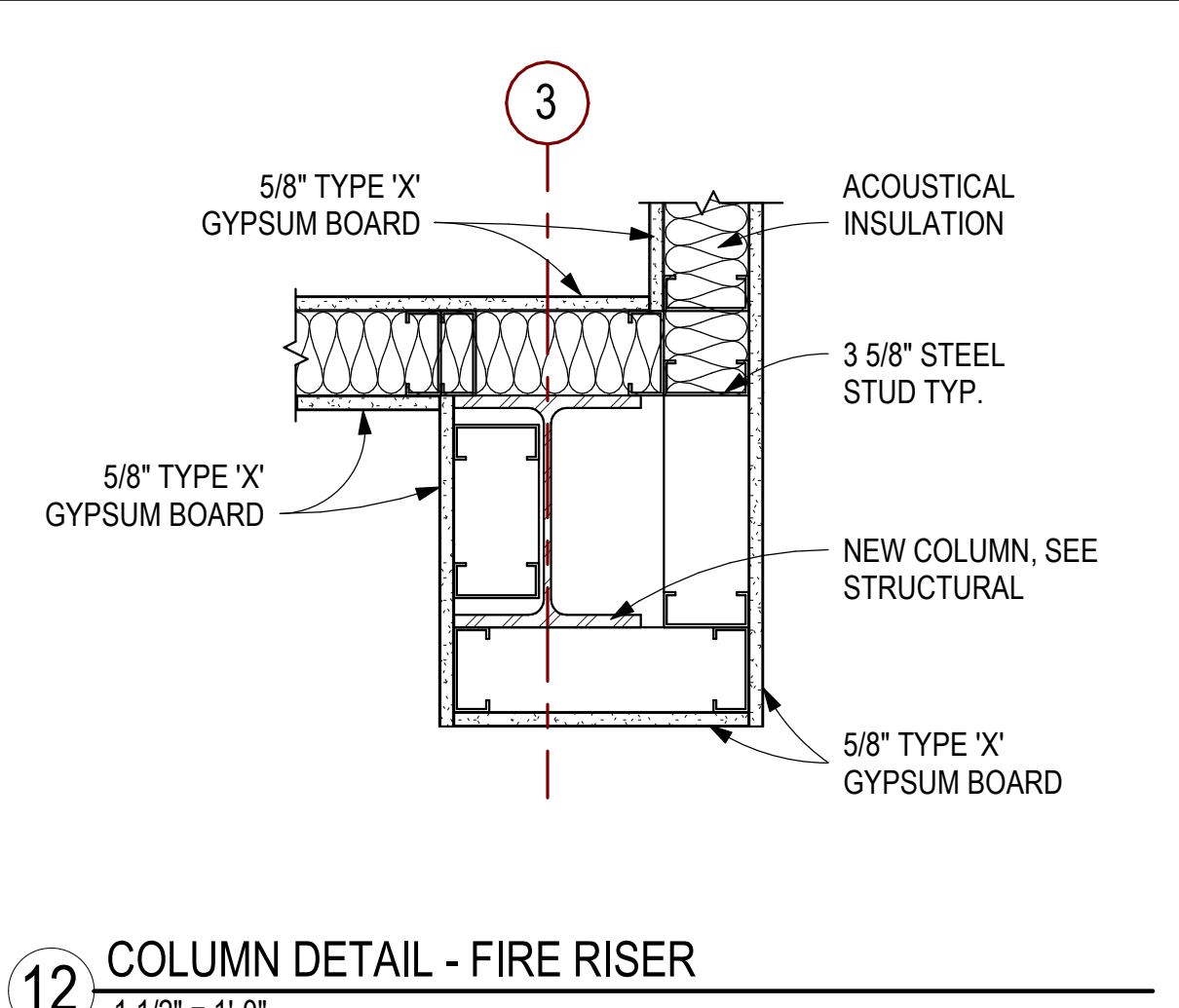
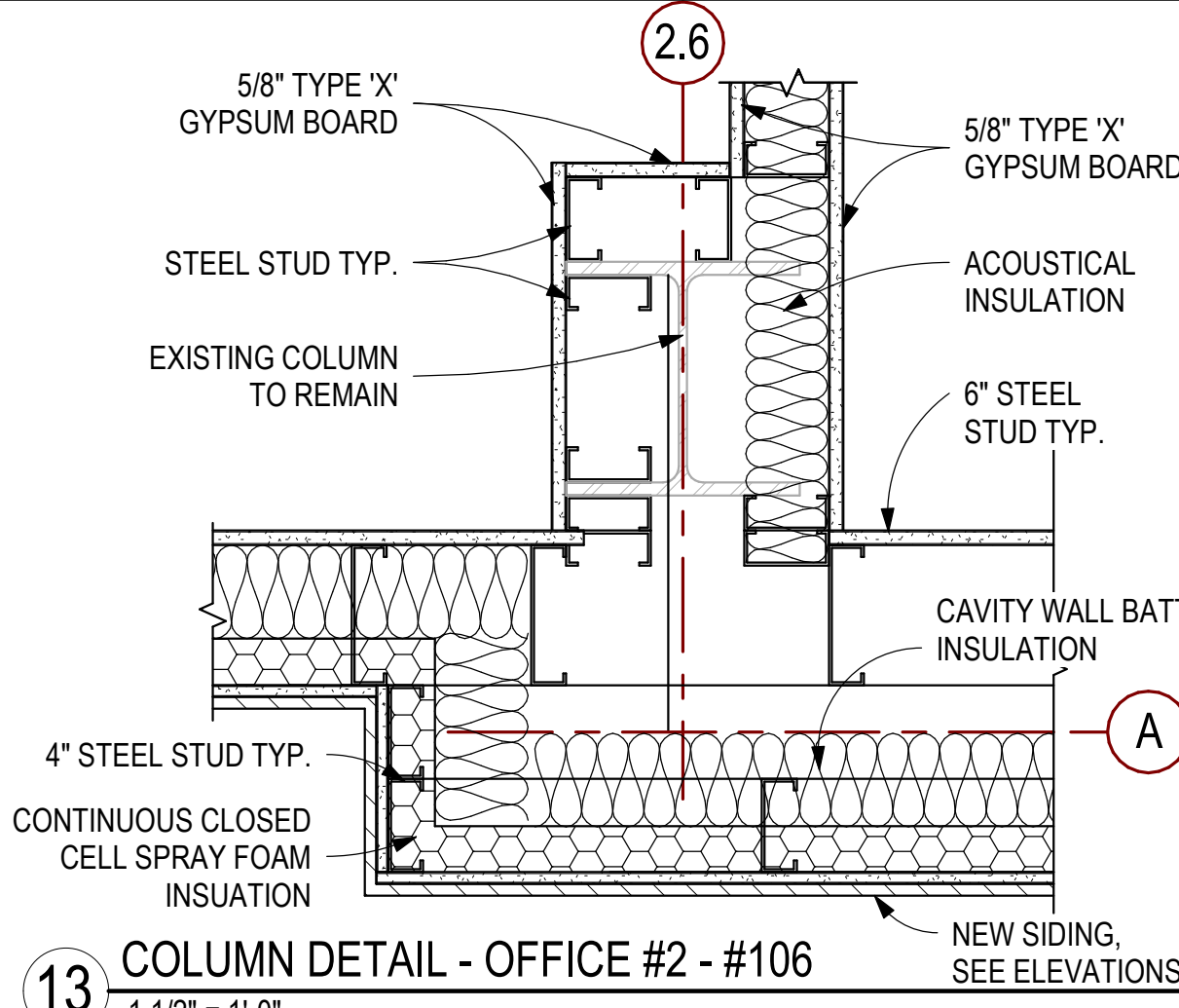
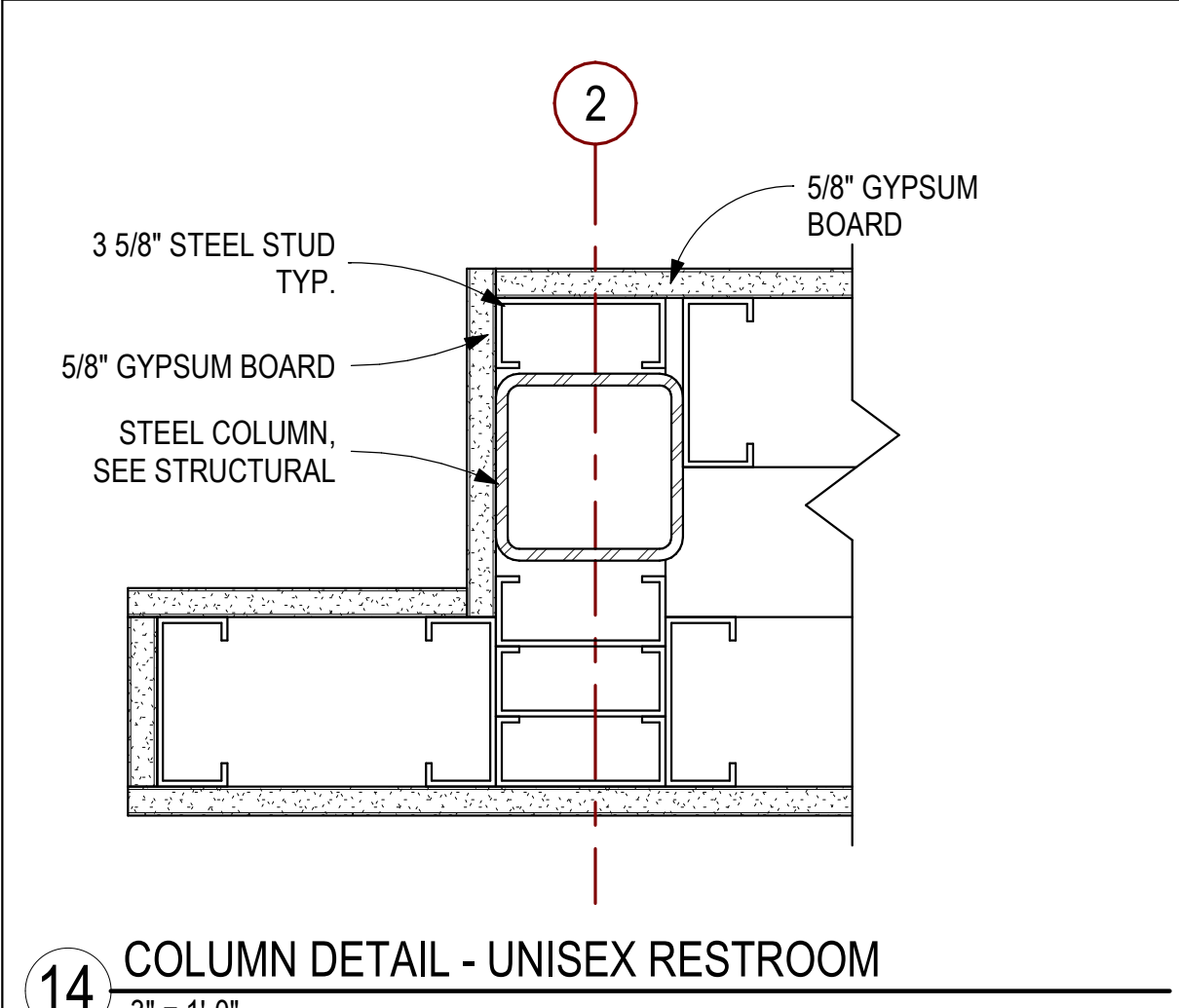
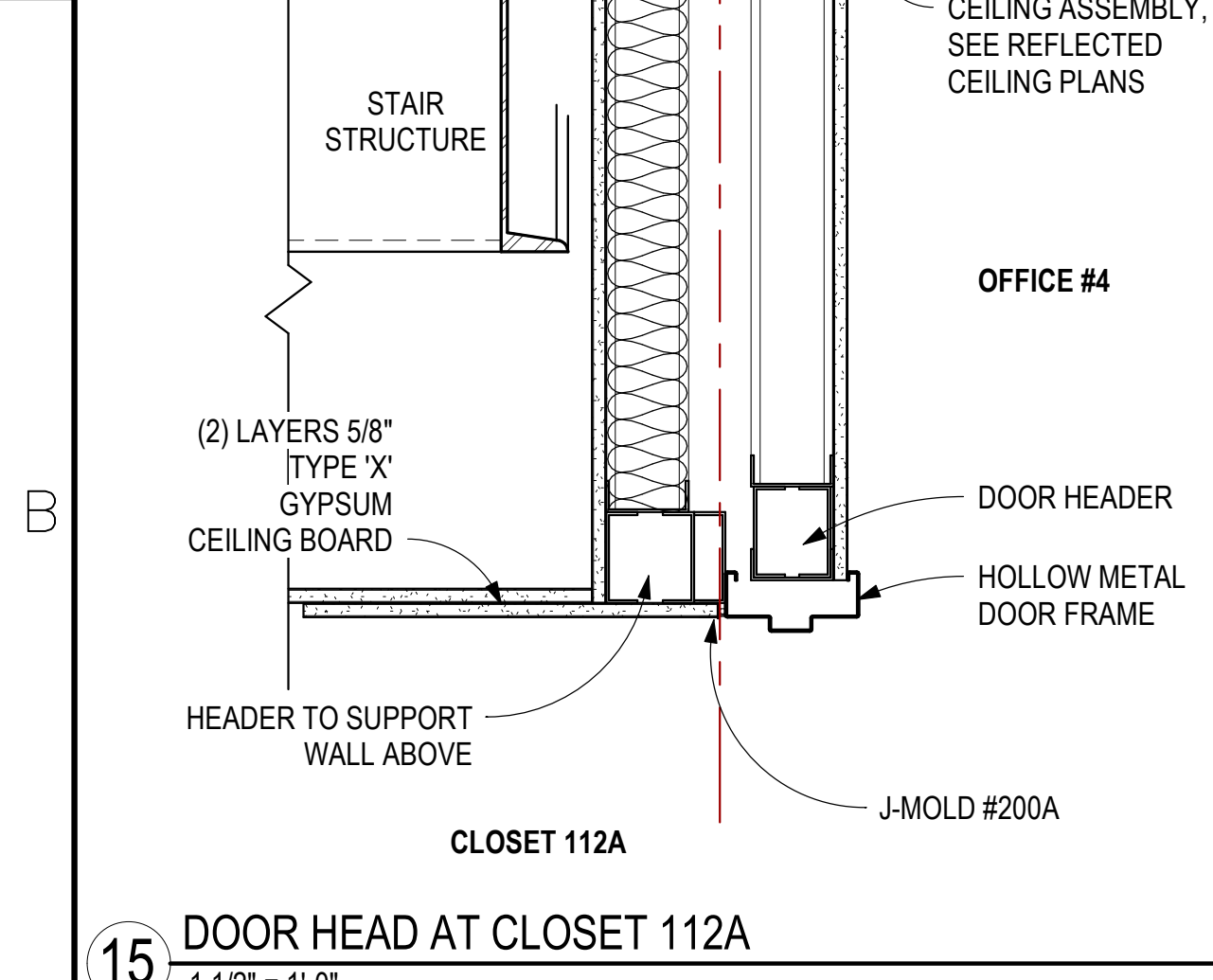
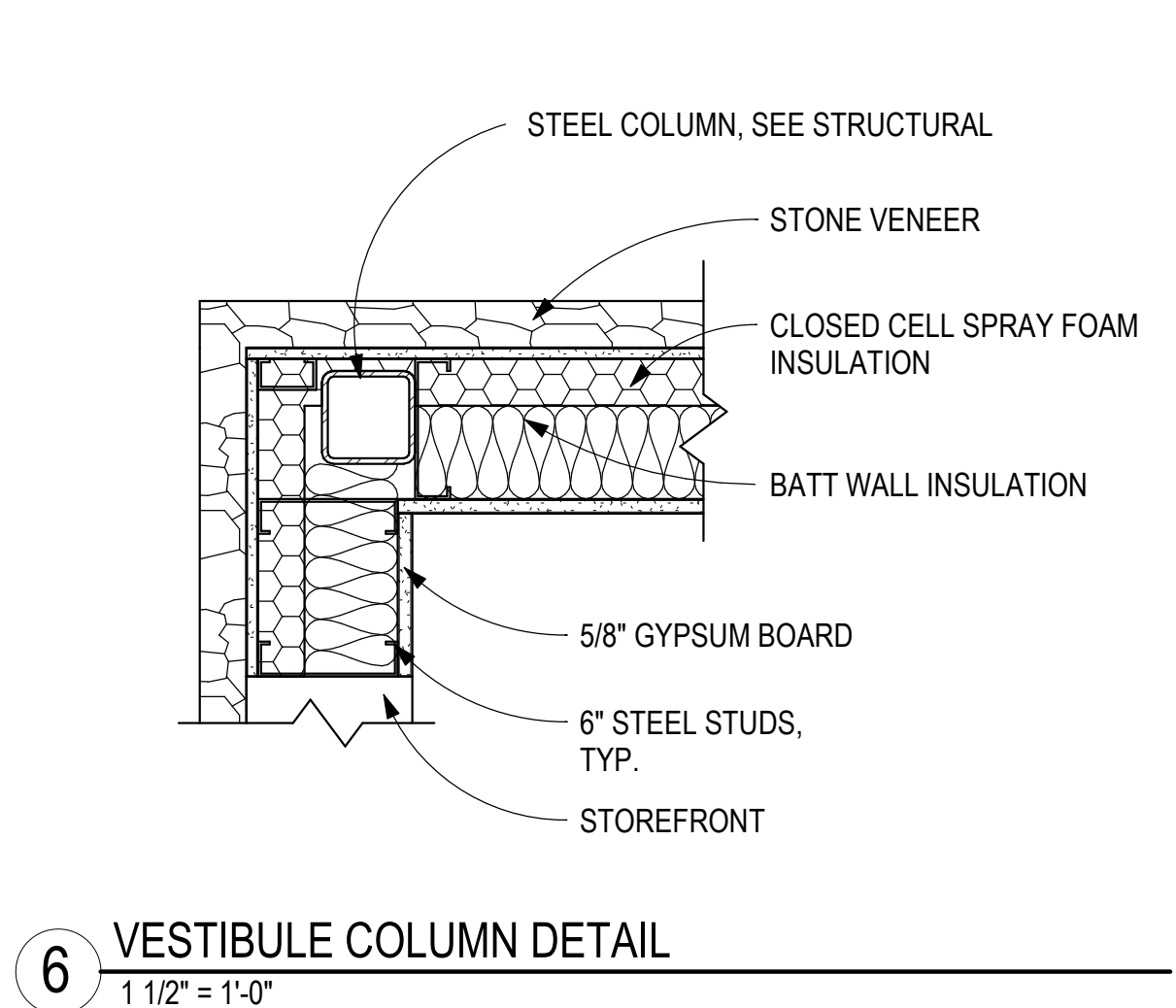
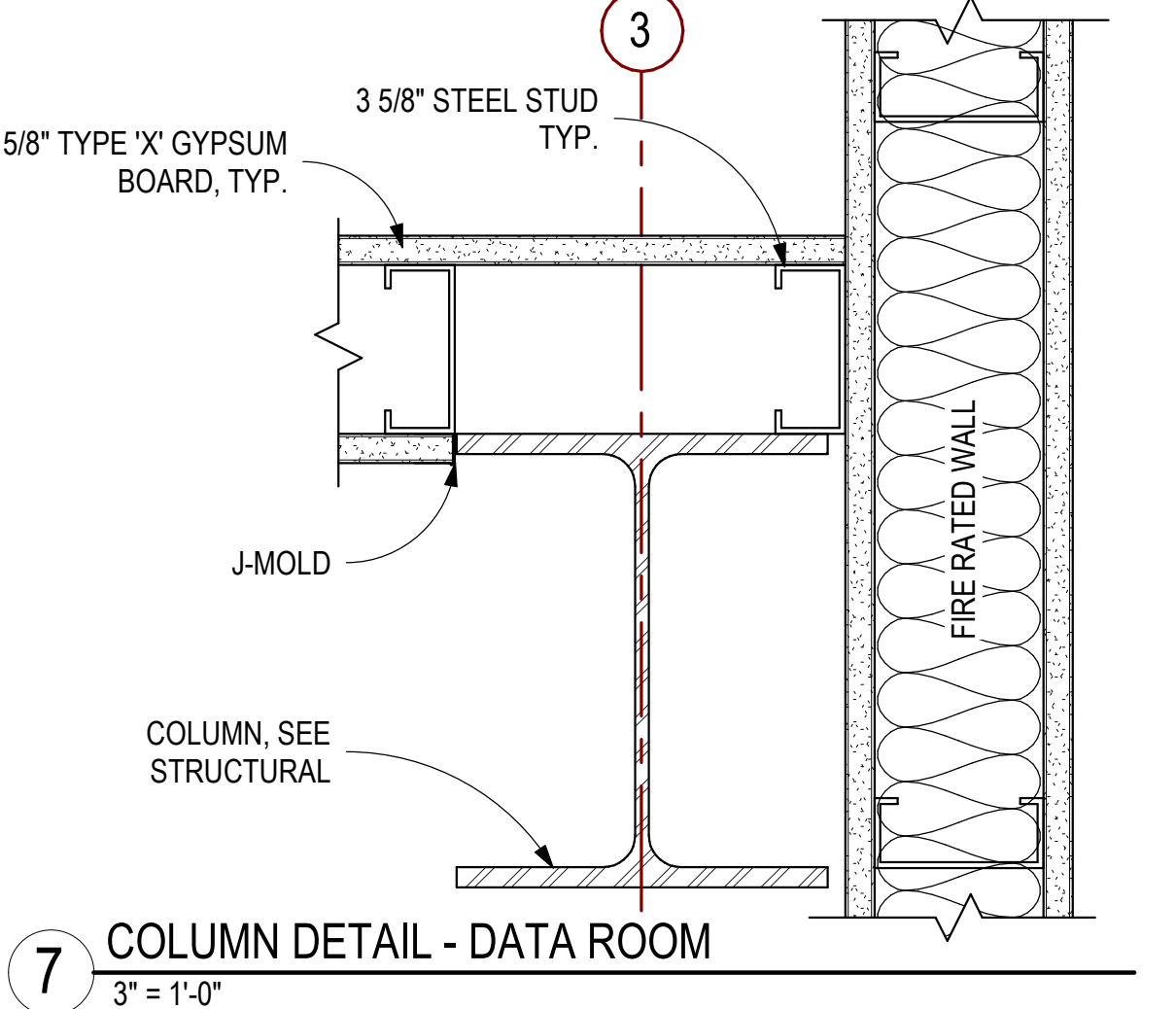
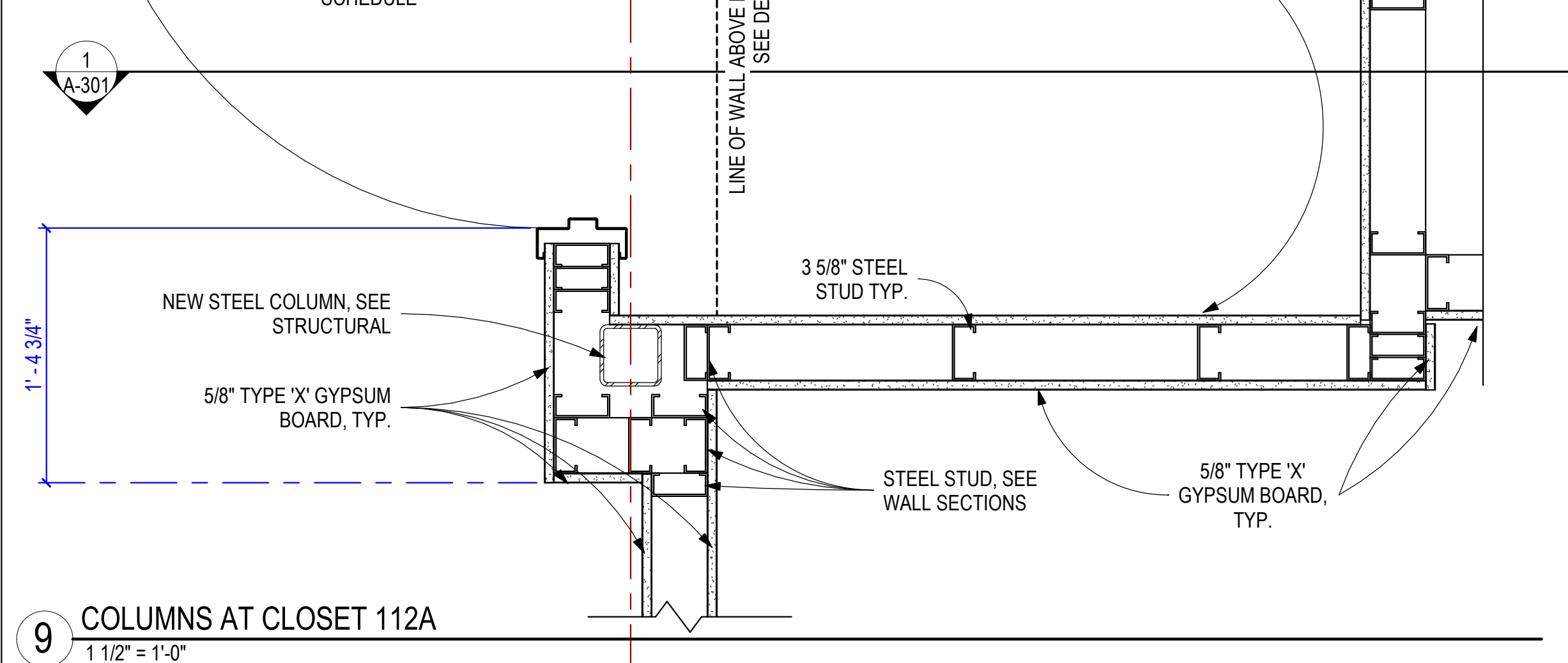
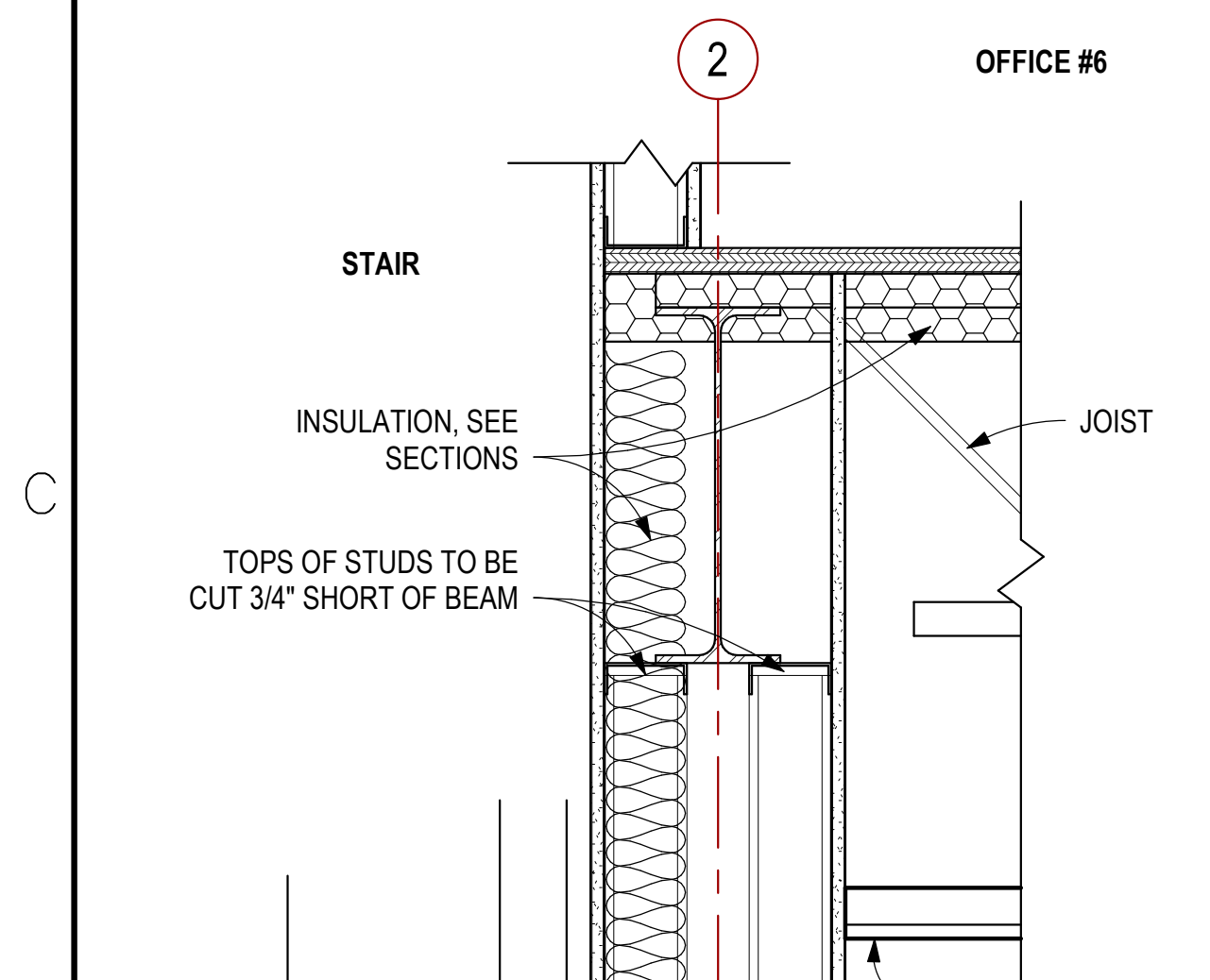
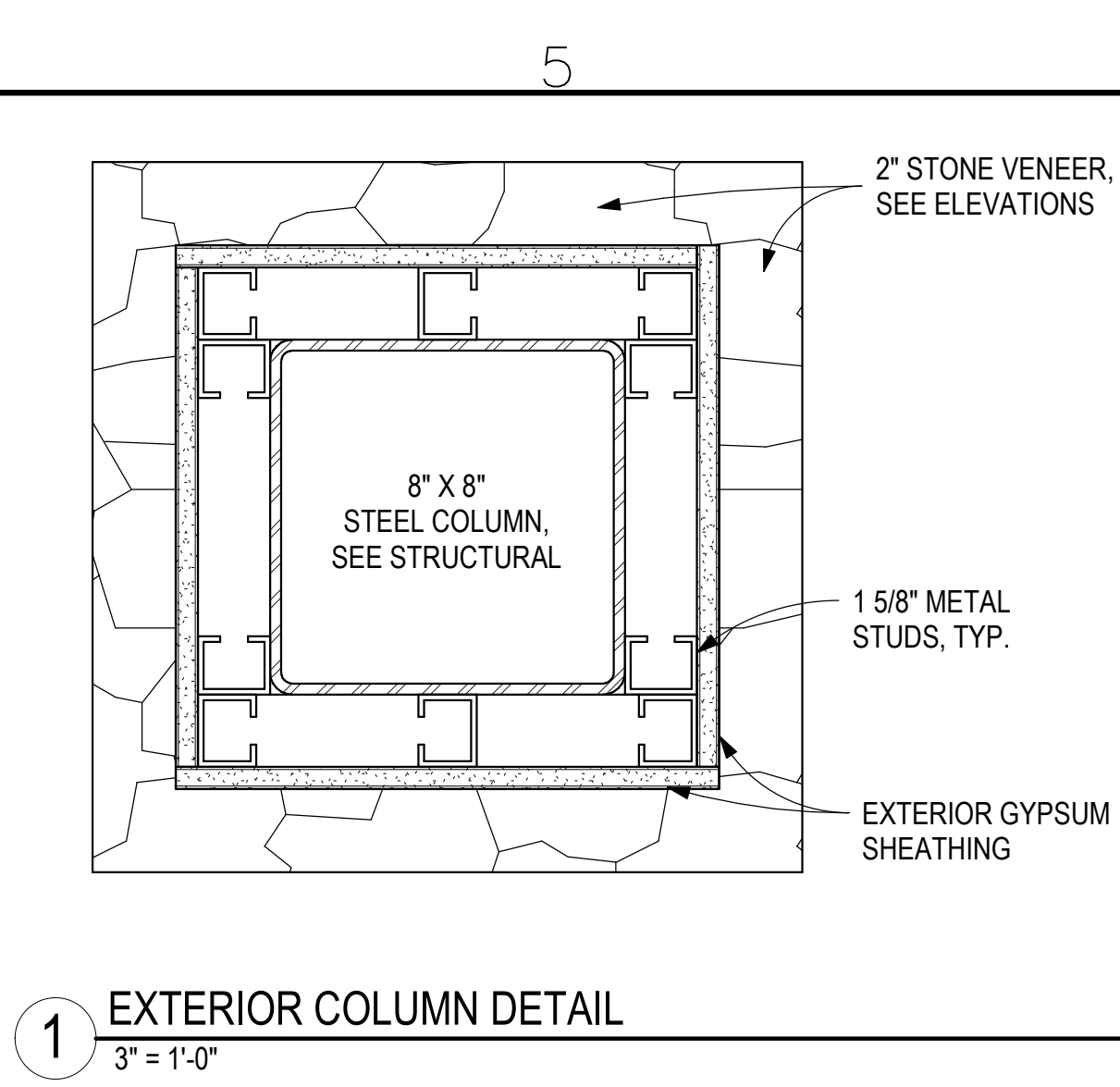
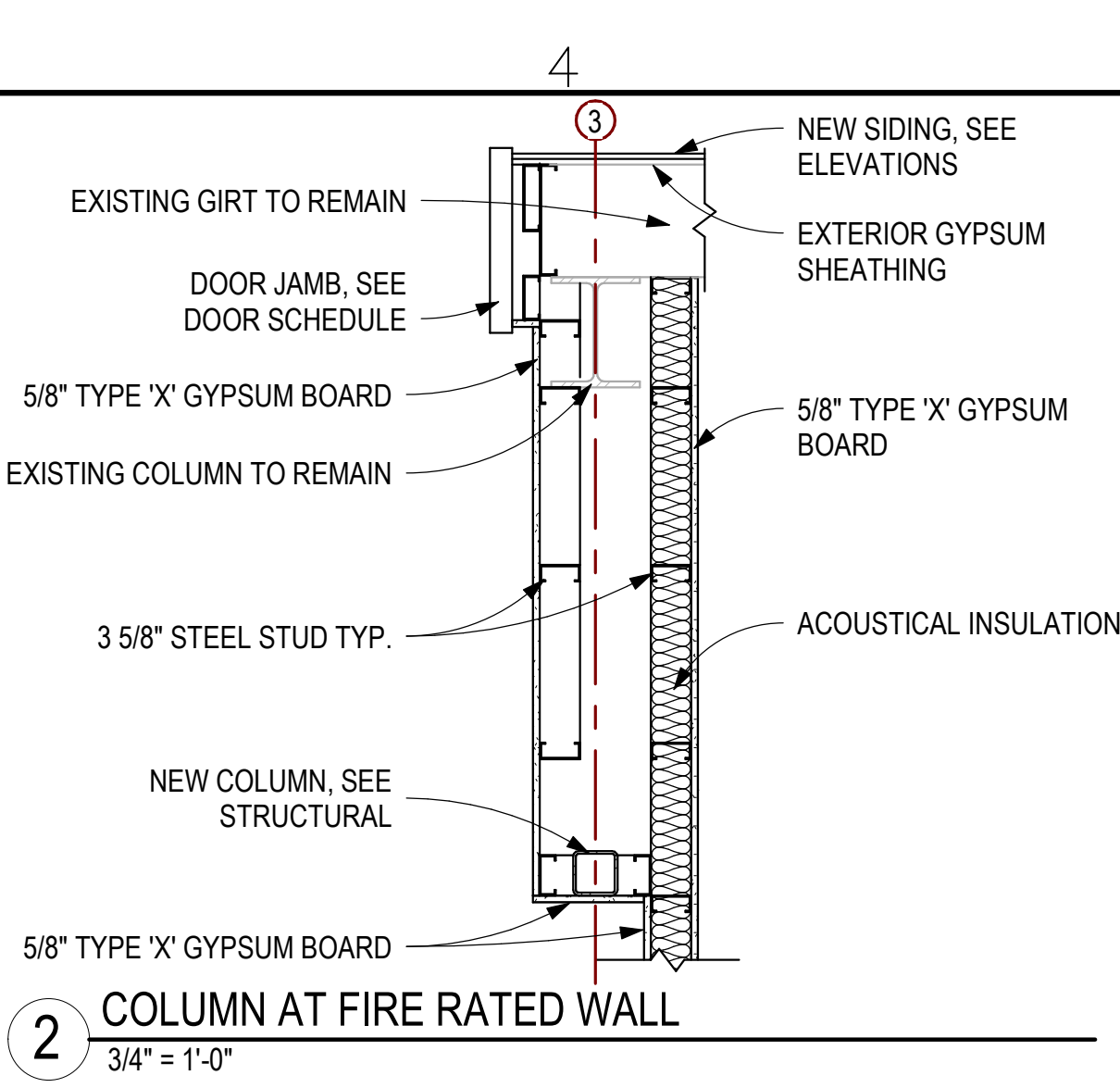
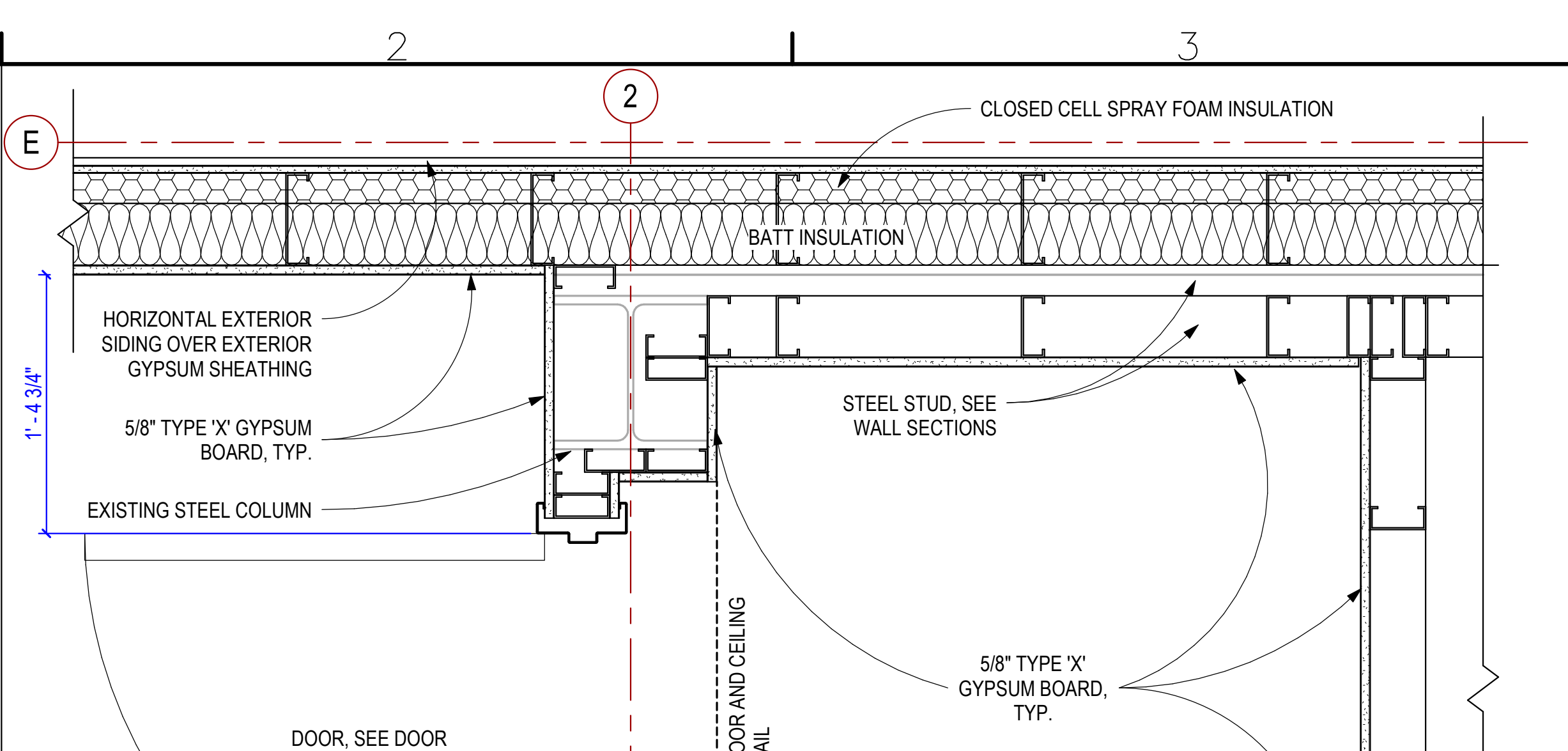
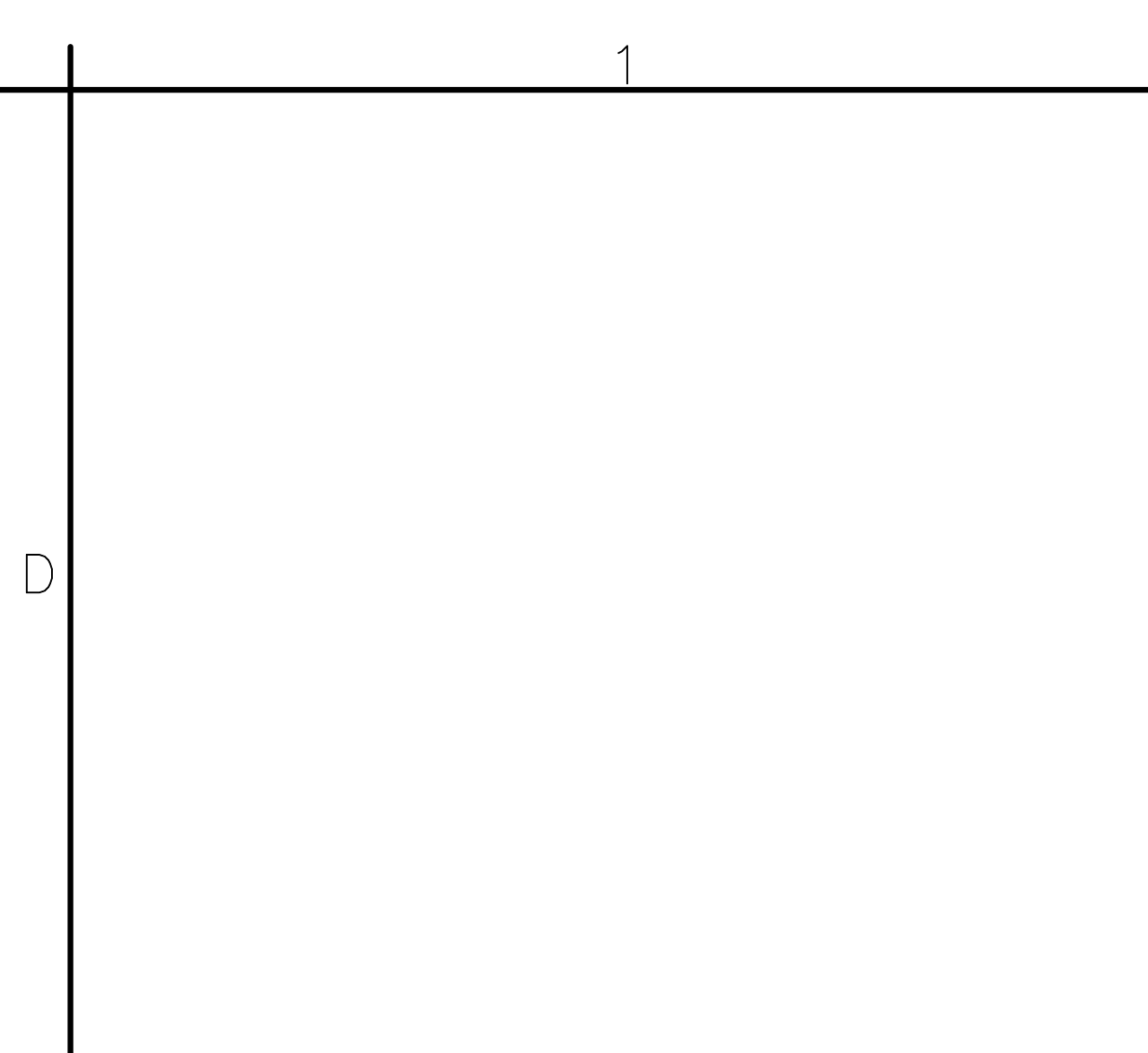


11 TYPICAL RESTROOM ENTRY WALL
 3/8" = 1'-0"





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Rev.	Date	Description

Designed by: RME	Submitted: 05 FEB 2024	REV:
Drawn by: WAR	File:	
Reviewed by: JTP	Scale: As indicated	
Submitted by: JTP	Project Number:	

RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

ARCHITECTURAL DETAILS

SHEET NUMBER
A-502

REFLECTED CEILING PLAN LEGEND

	GYP. BD. CEILING		2' x 4' LIGHT
	SUPPLY DIFFUSER		2' x 2' LIGHT
	EXHAUST FAN		RECESSED CAN LIGHT
	RETURN AIR		PENDANT LIGHT FIXTURE
	EXIT SIGN		2' x 2' LAY-IN ACOUSTICAL CEILING
	CEILING MOUNTED MOTION SENSOR		VRF MINI CASSETTE
	RECESSED FIRE SPRINKLER		

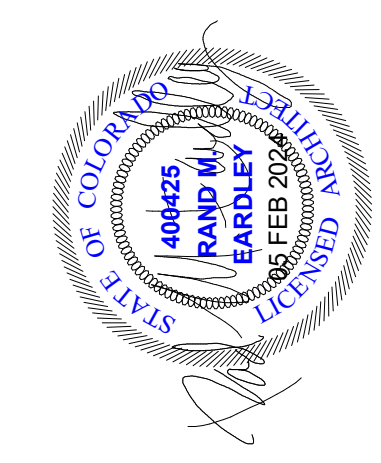
REFLECTED CEILING PLAN GENERAL NOTES

- SEE ARCHITECTURAL DETAIL SHEET A-501 FOR SUSPENDED CEILING GRID DETAILS.
- COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR TYPE AND PLACEMENT OF MECHANICAL AND ELECTRICAL COMPONENTS.

KEYED NOTES

- 07.14 ALUMINUM SOFFIT; COLOR MIDNIGHT BRONZE
- 09.01 MINERAL FIBER ACOUSTICAL CEILING TILE, MINIMUM CAC OF 35 AND NRC OF .6, ARMSTRONG ULTIMA RECOMMENDED
- 09.02 GYPSUM BOARD CEILING; FOR GYPSUM BOARD CEILINGS SPANNING GREATER THAN 48" USE 12 GAUGE WIRE TIES AT 48" ON CENTER

NOTE:
THE SPRINKLER HEADS FOR THE FIRE SUPPRESSION SYSTEM ARE NOT SHOWN AS THEY ARE TO BE PROVIDED AS A DEFERRED SUBMITTAL.



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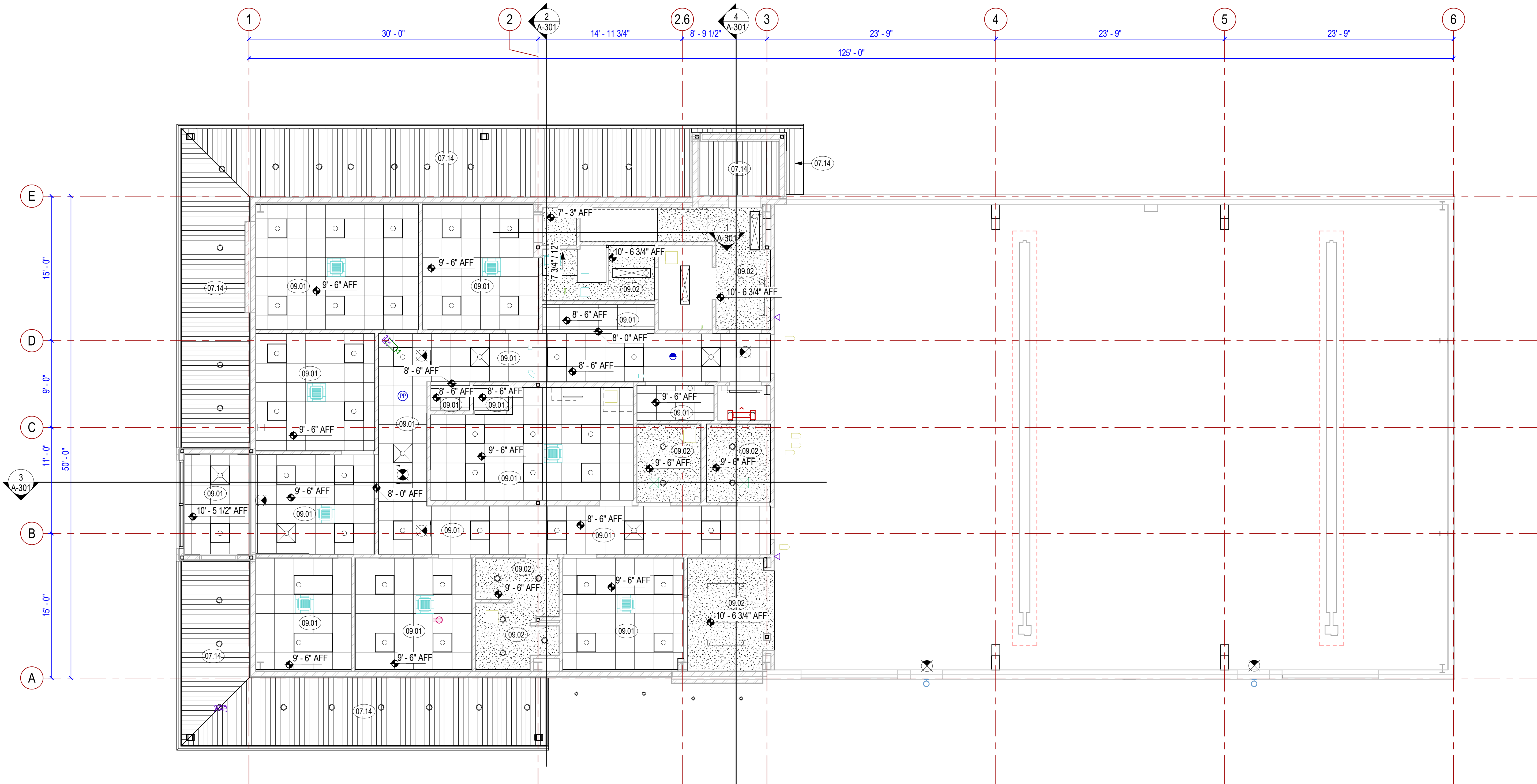
Rev.	Description	Date	Appr.

Designed by: RME	Submitted: 05 FEB 2024	REV:
Drawn by: WAR	File:	
Reviewed by: JTP	Scale: As indicated	
Submitted by:	Project Number:	

RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

FIRST FLOOR REFLECTED CEILING PLAN

SHEET NUMBER
A-701



1 1ST FLOOR REFLECTED CEILING PLAN
3/16" = 1'-0"



REFLECTED CEILING PLAN LEGEND

	GYP. BD. CEILING		2' x 4' LIGHT
	SUPPLY DIFFUSER		2' x 2' LIGHT
	EXHAUST FAN		RECESSED CAN LIGHT
	RETURN AIR		PENDANT LIGHT FIXTURE
	EXIT SIGN		2' x 2' LAY-IN ACOUSTICAL CEILING
	CEILING MOUNTED MOTION SENSOR		VRF MINI CASSETTE
	RECESSED FIRE SPRINKLER		

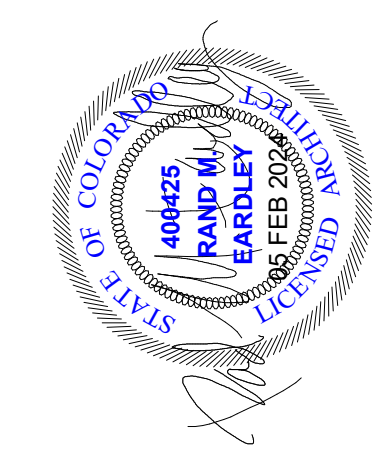
REFLECTED CEILING PLAN GENERAL NOTES

- SEE ARCHITECTURAL DETAIL SHEET A-501 FOR SUSPENDED CEILING GRID DETAILS.
- COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR TYPE AND PLACEMENT OF MECHANICAL AND ELECTRICAL COMPONENTS.

KEYED NOTES

- 07.14 ALUMINUM SOFFIT; COLOR MIDNIGHT BRONZE
- 07.18 METAL FASCIA; COLOR MIDNIGHT BRONZE
- 09.01 MINERAL FIBER ACOUSTICAL CEILING TILE, MINIMUM CAC OF 35 AND NRC OF .6, ARMSTRONG ULTIMA RECOMMENDED
- 09.02 GYPSUM BOARD CEILING; FOR GYPSUM BOARD CEILINGS SPANNING GREATER THAN 48" USE 12 GAUGE WIRE TIES AT 48" ON CENTER

NOTE:
THE SPRINKLER HEADS FOR THE FIRE SUPPRESSION SYSTEM ARE NOT SHOWN AS THEY ARE TO BE PROVIDED AS A DEFERRED SUBMITTAL.



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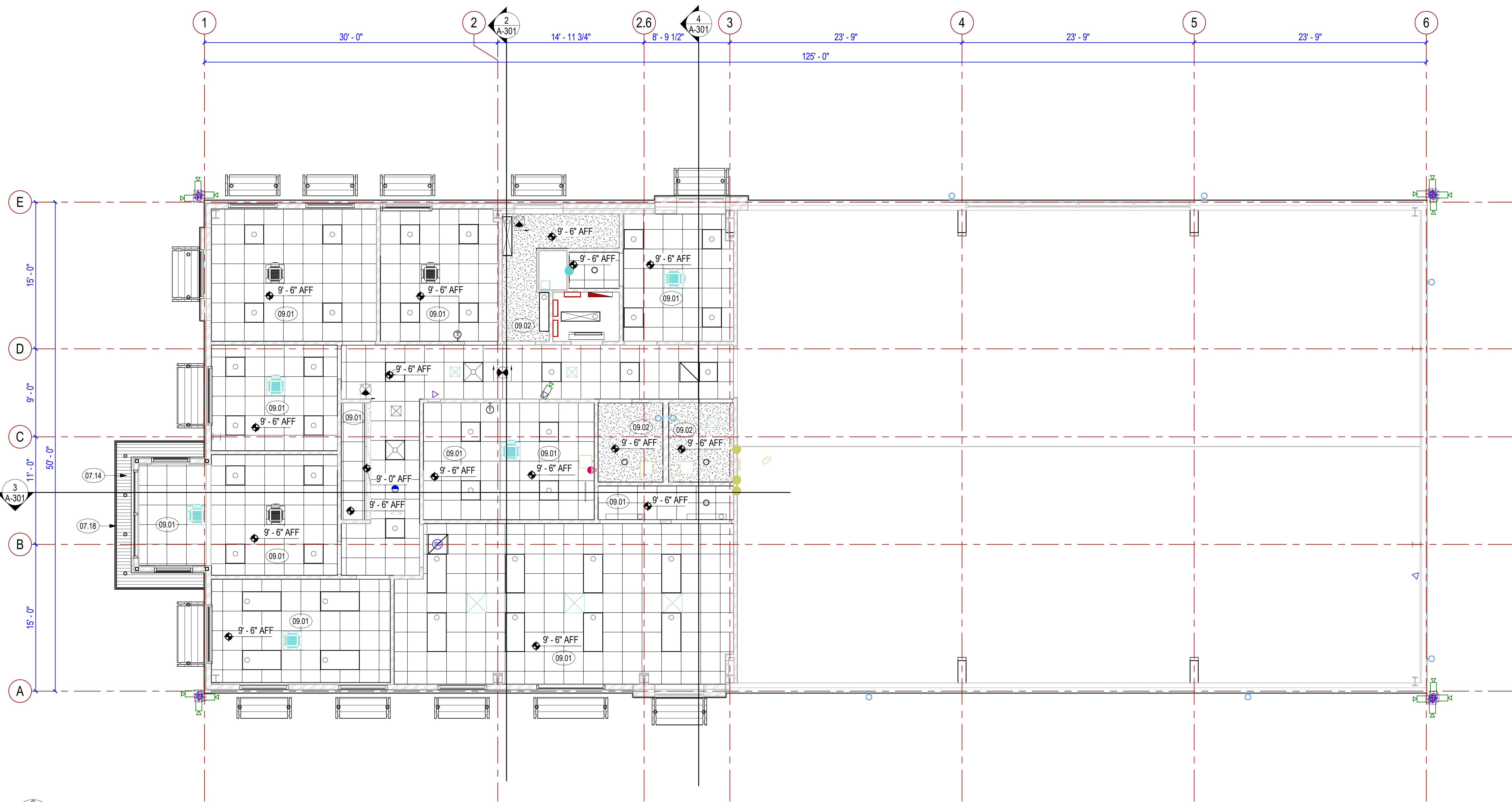
Rev.	Description	Date	Appr.

Designed by: RME	Submitted: 05 FEB 2024	REV:
Drawn by: WAR	File:	
Reviewed by: JTP	Scale: As indicated	
Submitted by:	Project Number:	

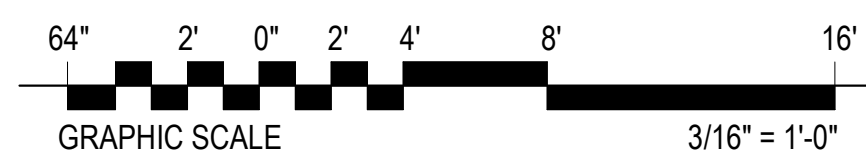
RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

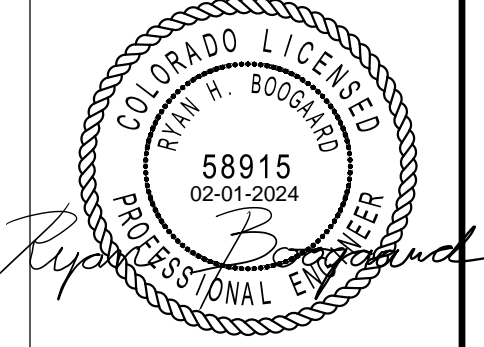
SECOND FLOOR REFLECTED CEILING PLAN

SHEET NUMBER
A-702



1 2ND FLOOR REFLECTED CEILING PLAN
3/16" = 1'-0"





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REV.	Description	Date	Appr.

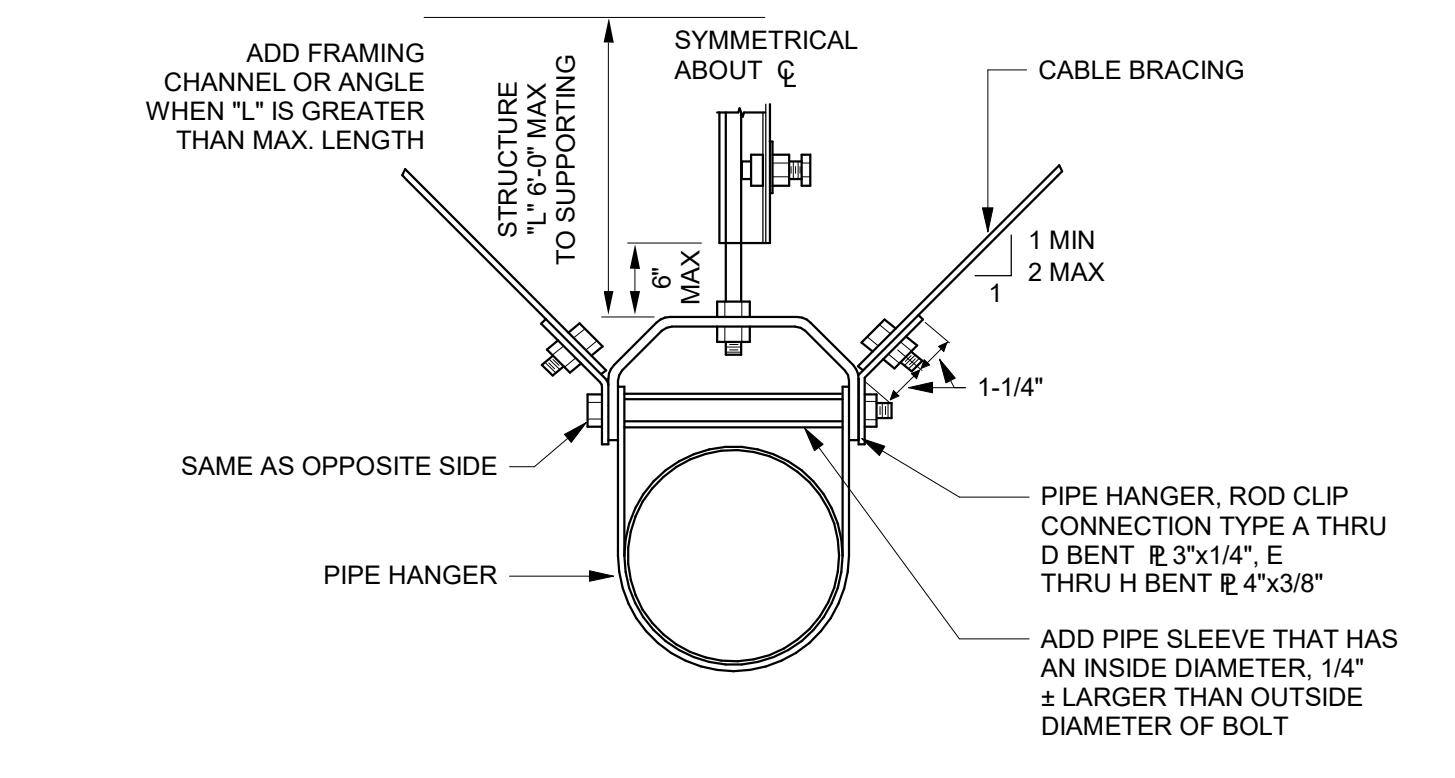
Submitted by: RHB	Designed by: RHB	Drawn by: LGG	Reviewed by: RHB	Submitted by: RHB
06 FEB 2024				
File:	Scale:	As indicated	Project Number:	EJ23002TP

SPECTRUM ENGINEERS
 324 S. State St., Suite 400
 Salt Lake City, UT 84111
 800-675-7077
 801-328-5151
 fax: 801-328-5155
 www.spectrum-engineers.com

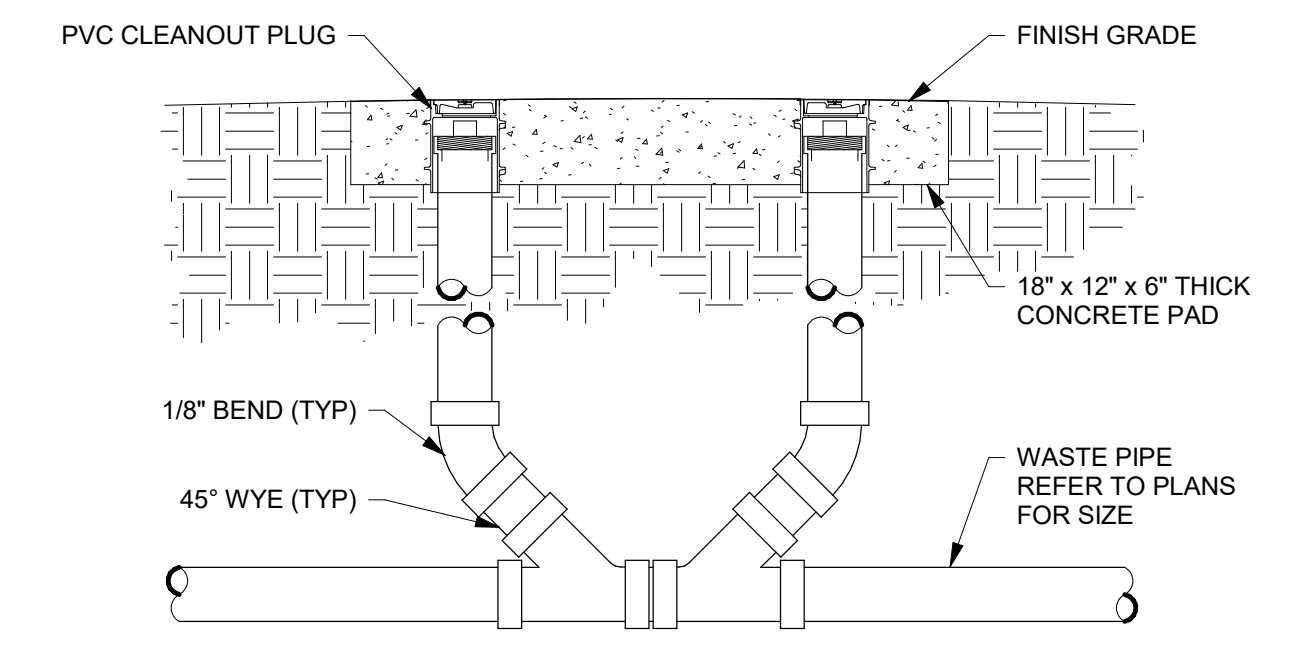
RCH Valley Real Color Holdings, LLC
 875 Valley St
 Colorado Springs, CO 80915

PLUMBING DETAILS

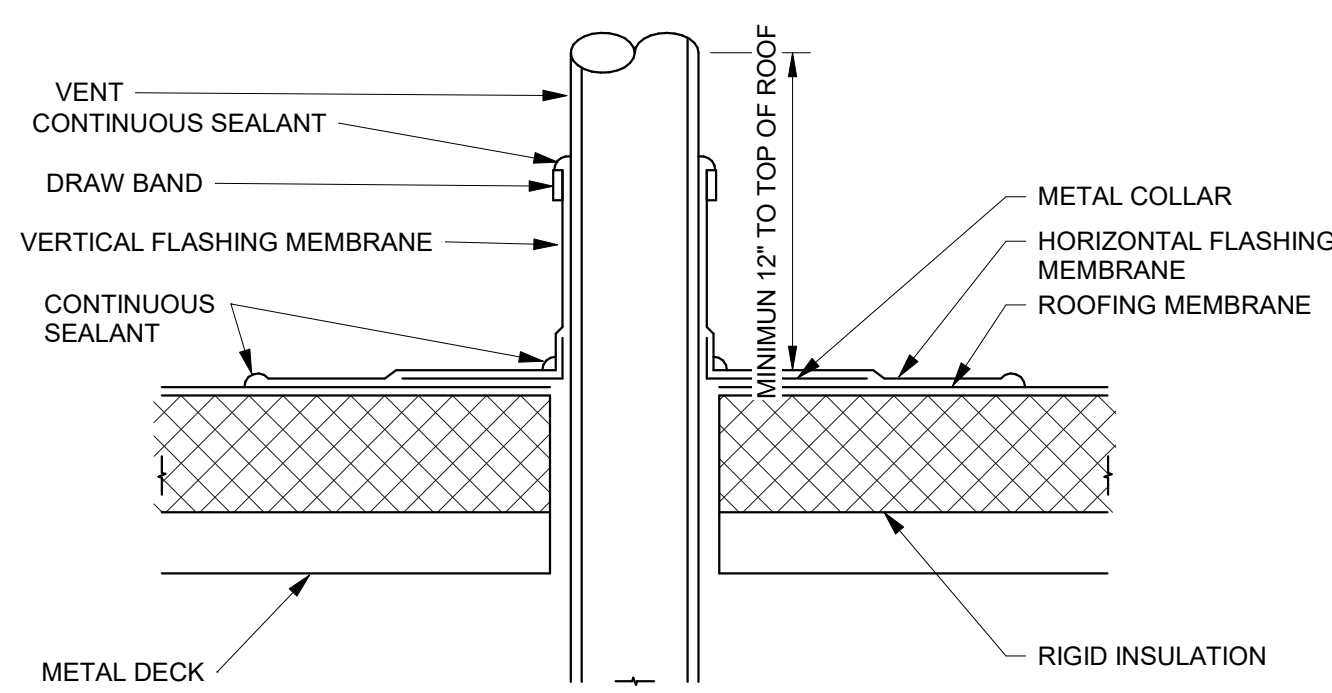
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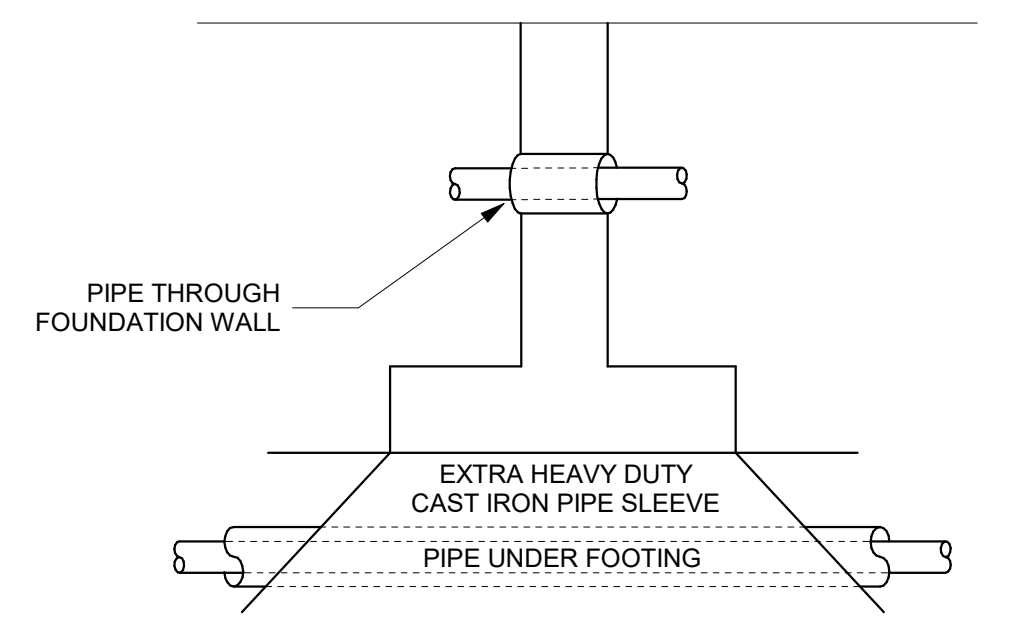
4D CABLE BRACING FOR PIPES
 1/8" = 1'-0"



5D CLEANOUT - TWO-WAY DETAIL
 1/8" = 1'-0"

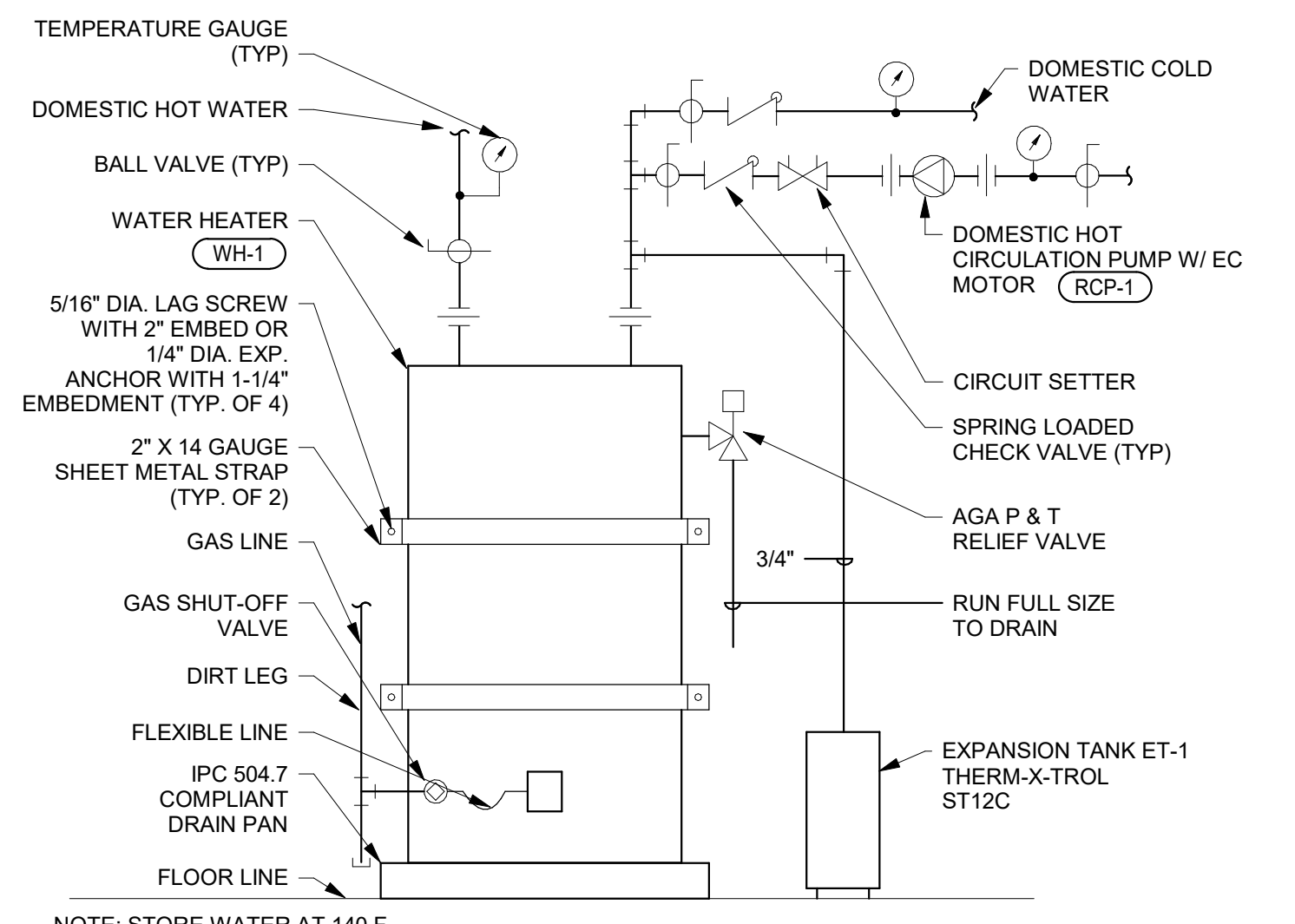


4C VENT THRU ROOF DETAIL
 1" = 10'-0"



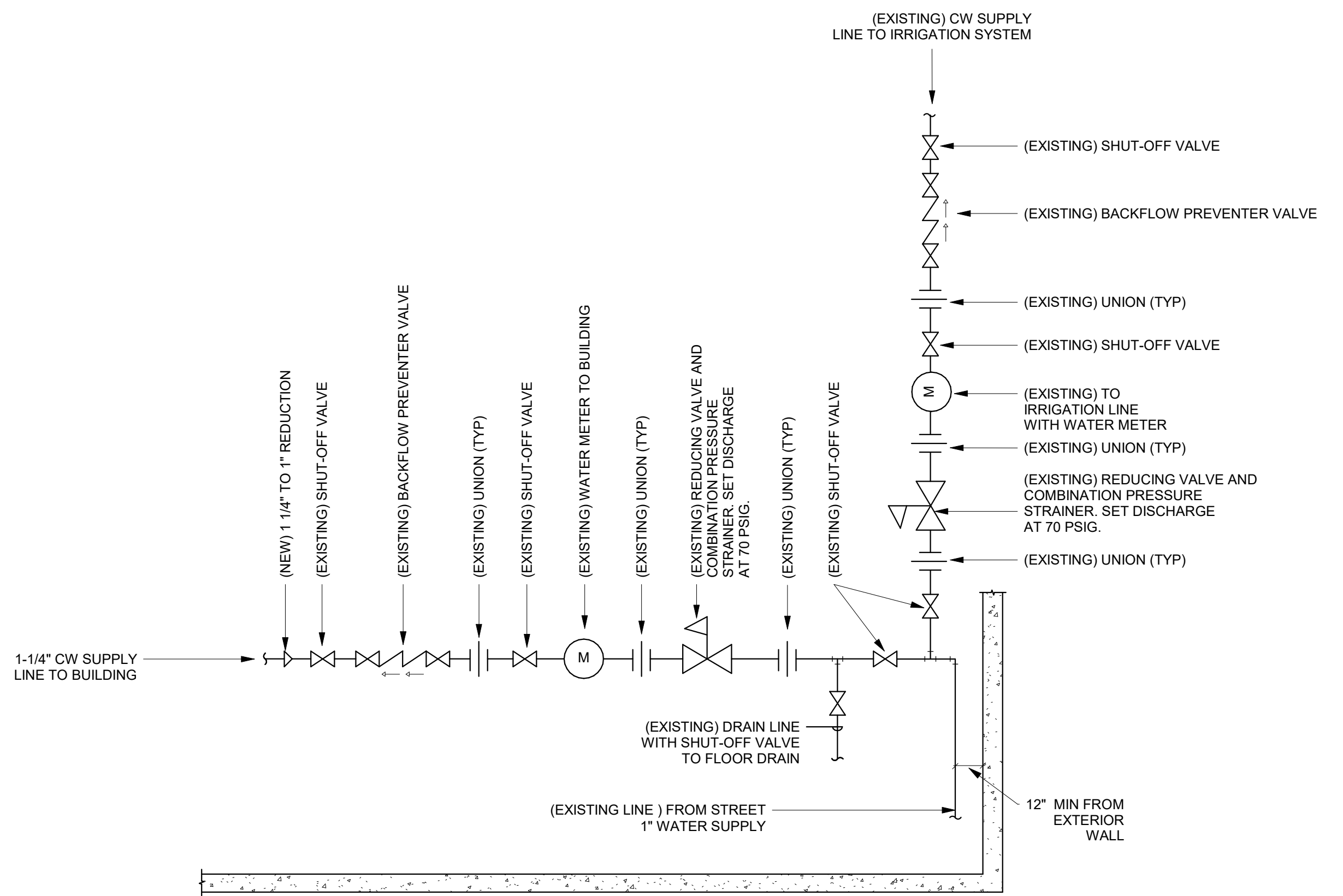
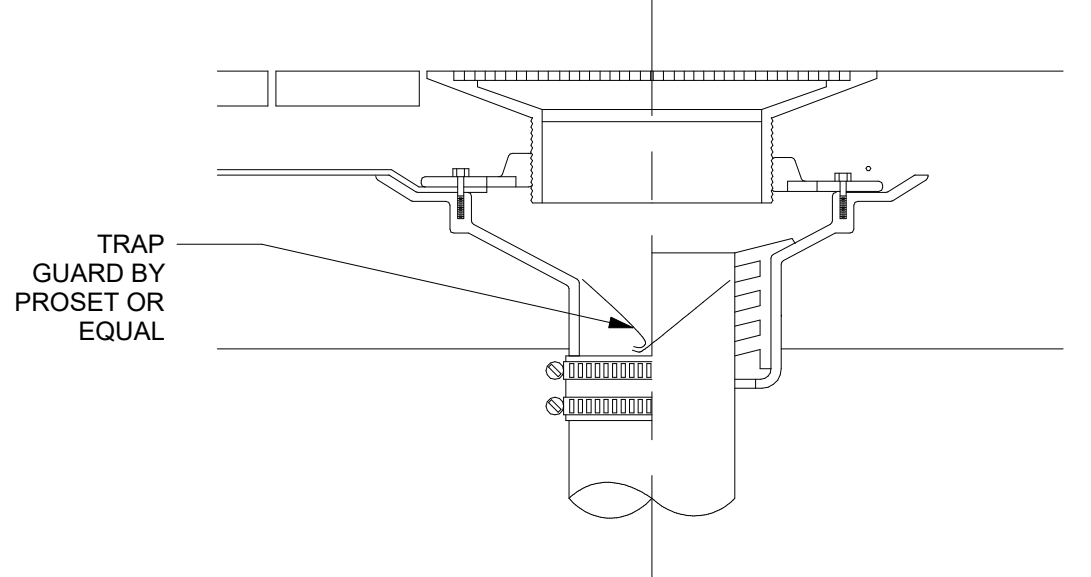
5C PIPE UNDER FOOTING DETAIL
 1/8" = 1'-0"

NOTE: ALL PIPING THROUGH A FOUNDATION WALL OR UNDER A FOOTING TO BE PROVIDED WITH A PIPE SLEEVE 2 PIPE SIZES LARGER THAN PIPE PASSING THROUGH WALL OR UNDER FOOTING. SEAL WITH CAULK OR FOAM PIPE SLEEVE UNDER FOOTING TO BE A MINIMUM OF 2" BELOW FOOTING. PIPE TO BE IRON AND EXTEND BEYOND THE WIDTH OF THE FOOTING AT A 45 DEGREE ON BOTH SIDES OF FOOTING.

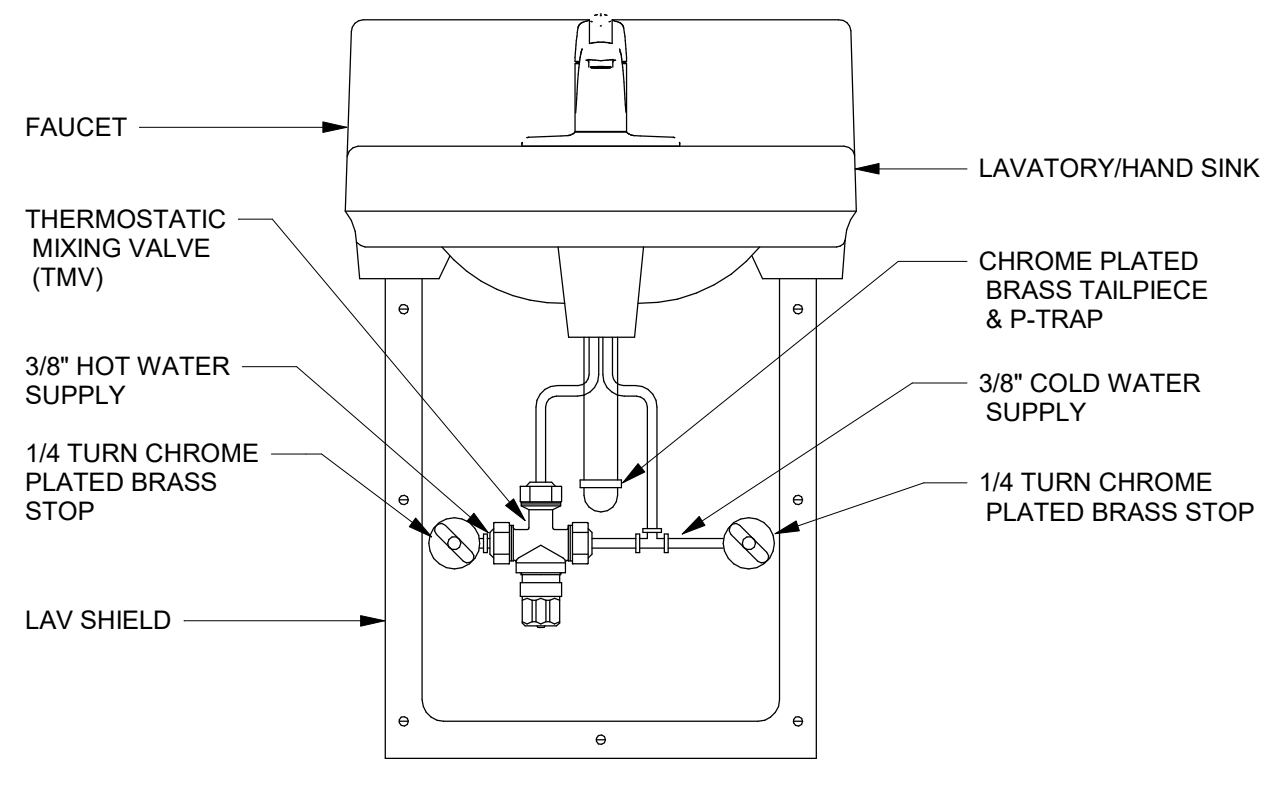


4B WATER HEATER W/ RECIRC
 1/8" = 1'-0"

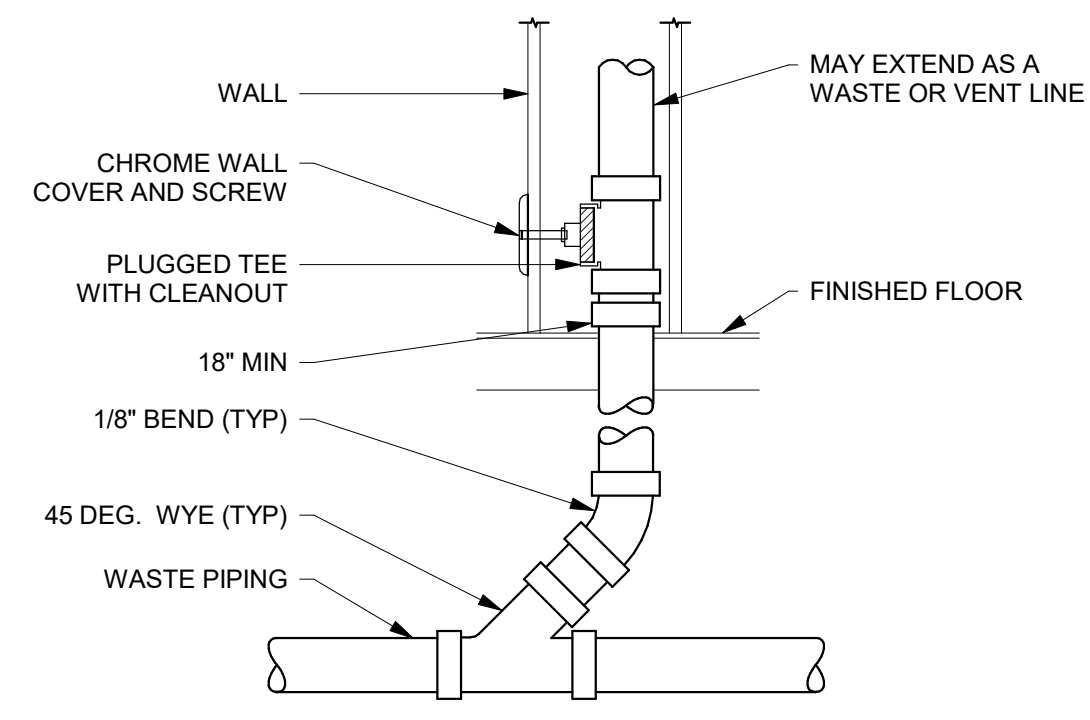
5B FLOOR DRAIN DETAIL
 1/8" = 1'-0"



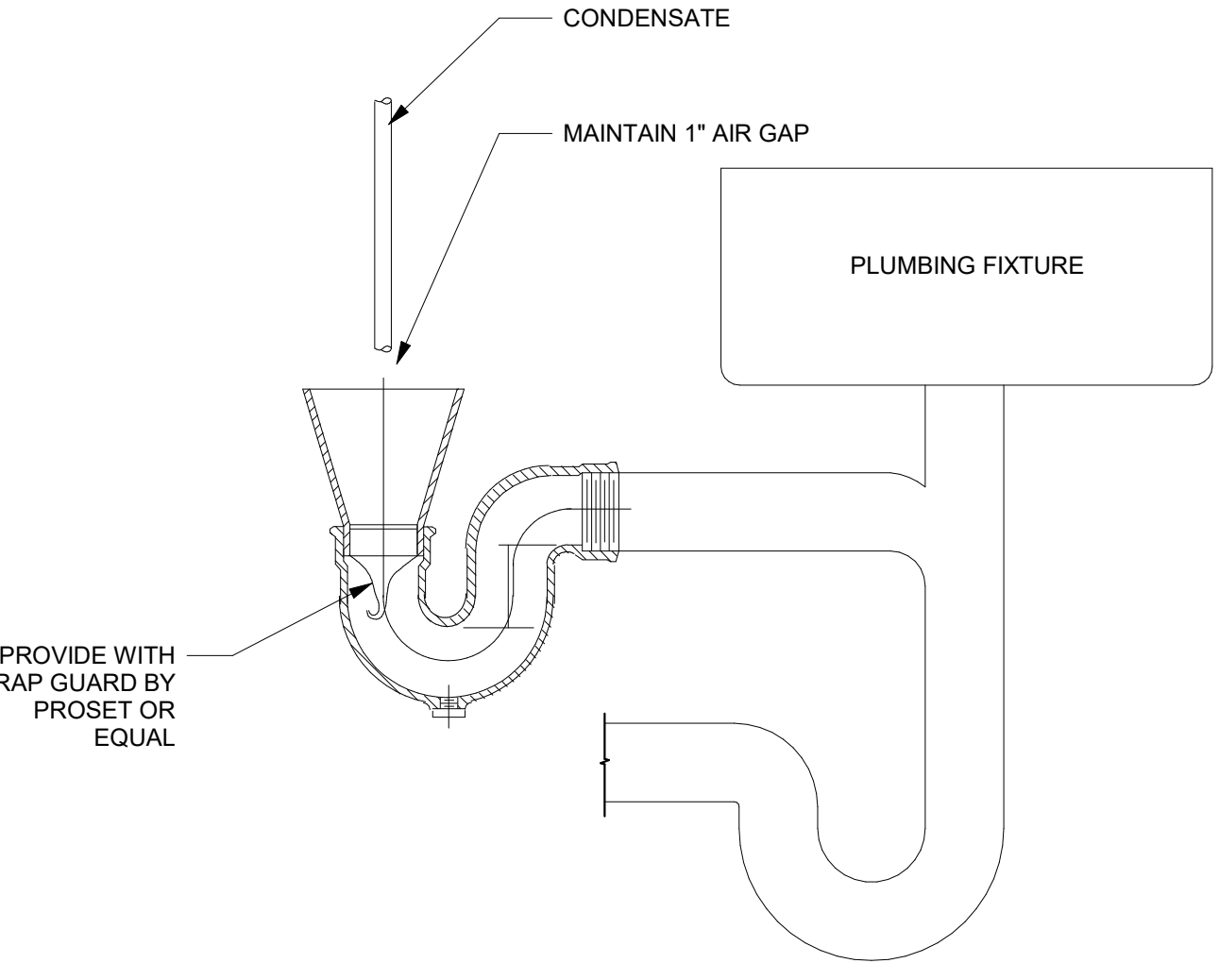
1A (EXISTING) WATER METER DETAIL
 1/8" = 1'-0"



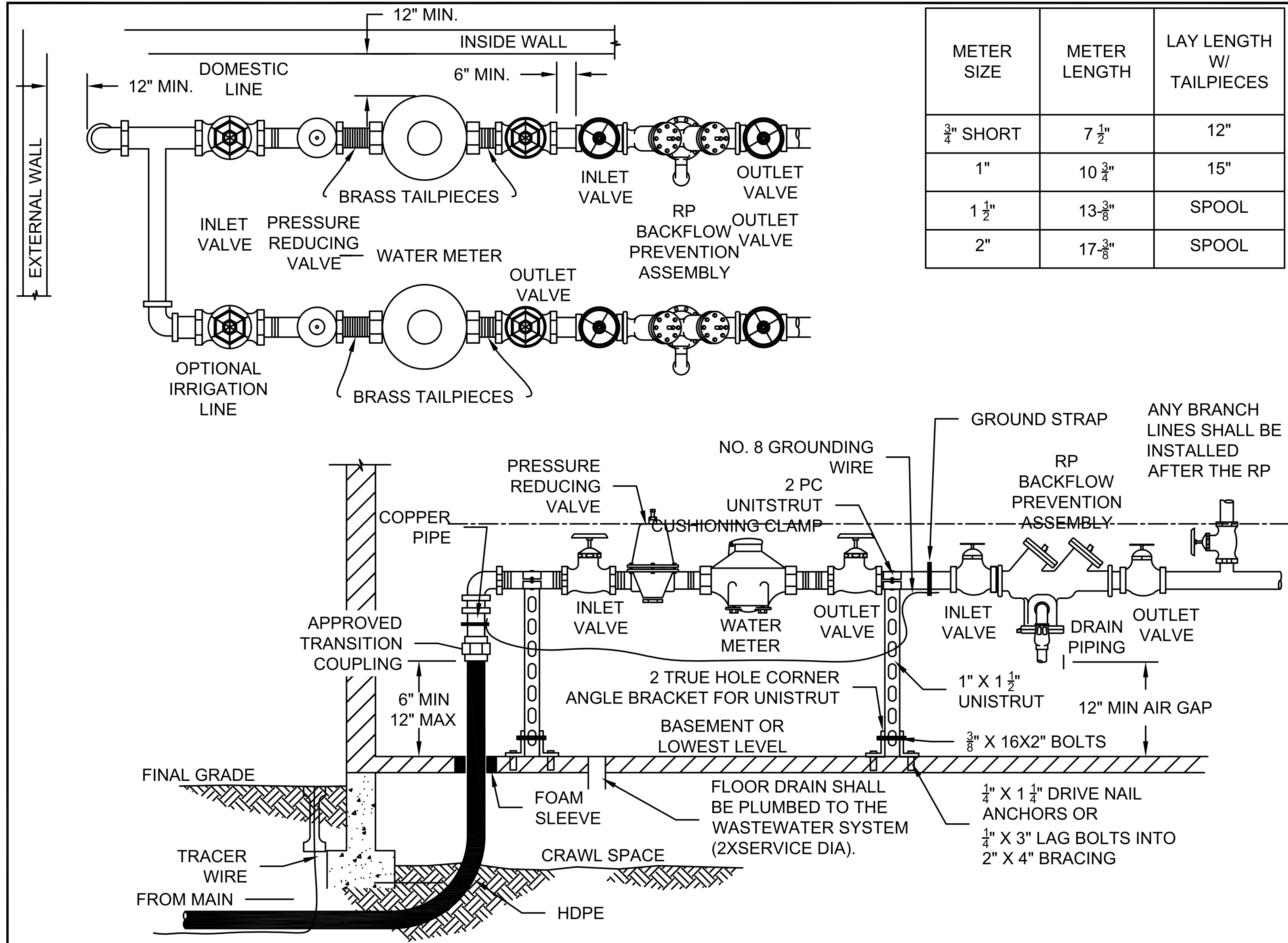
3A THERMOSTATIC MIXING VALVE AT HAND SINK
 1/4" = 1'-0"



4A WALL CLEANOUT DETAIL
 1/8" = 1'-0"



5A FUNNEL DRAIN DETAIL
 1/8" = 1'-0"



METER SIZE	METER LENGTH	LAY LENGTH W/ TAILPIECES
3/4" SHORT	7 1/2"	12"
1"	10 3/4"	15"
1 1/2"	13 3/8"	SPOOL
2"	17 3/8"	SPOOL

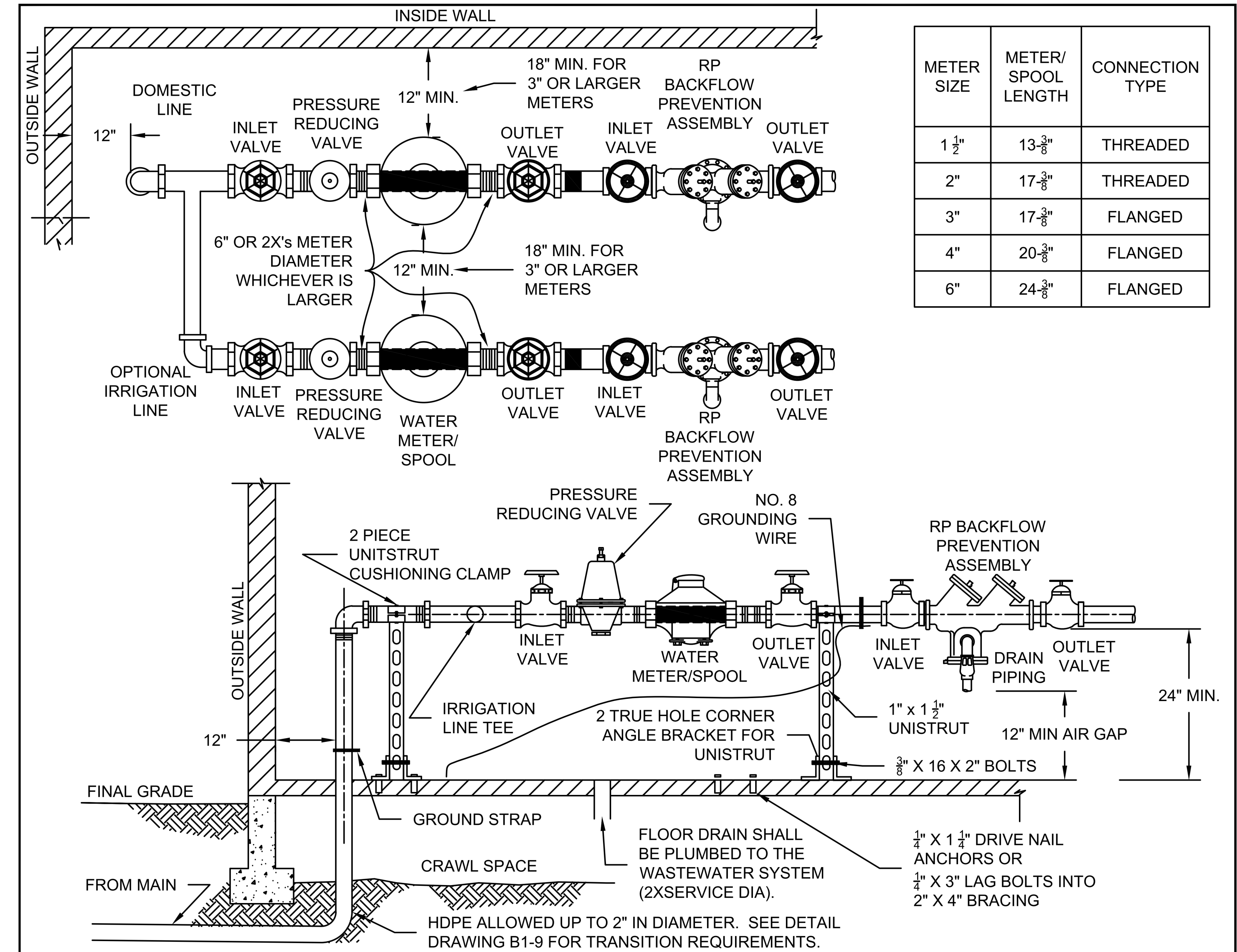
- NOTES:**
1. THE METER SHALL BE PROVIDED AND INSTALLED BY CHEROKEE METROPOLITAN DISTRICT.
 2. REFERENCE SECTION 2.7.J (WATER METERS) FOR METER LOOP REQUIREMENTS.
 3. METERS MUST BE LOCATED ON THE LOWEST FLOOR OF THE STRUCTURE. METERS SHALL NOT BE INSTALLED IN CRAWL SPACES, AREAS ONLY ACCESSIBLE BY LADDER, OR DESIGNATED STORAGE AREAS.
 4. AN APPROVED TRANSITION COUPLING SHALL BE INSTALLED A MIN OF 6" AND A MAX OF 12" FROM THE FLOOR. THE METER LOOP SHALL BE CONSTRUCTED OF COPPER, DUCTILE IRON OR STEEL.
 5. ALL FITTINGS IN THE METER LOOP SHALL BE SOLDERED, FIXED FLANGED OR THREADED.
 6. THE METER MUST BE INSTALLED WITH THE CLEARANCE DIMENSIONS AS SHOWN ABOVE. ONE SIDE OF THE METER SHALL BE FREE FROM ANY OBSTRUCTION. 3' MINIMUM CLEARANCE IS REQUIRED ABOVE AND IN FRONT OF THE METER. 24" MINIMUM CLEARANCE IS REQUIRED BETWEEN THE METER LOOP AND ELECTRICAL OUTLETS.
 7. BRASS INLET AND OUTLET VALVES SHALL BE INSTALLED ON EACH SIDE OF THE METER. INLET AND OUTLET VALVES SHALL BE FULL OPENING, GATE OR BALL VALVES WHICH CLOSE IN DIRECTION OF FLOW. NO CONNECTIONS ARE ALLOWED BETWEEN THE INLET AND OUTLET VALVES.
 8. A MINIMUM OF 5' OF COPPER IS REQUIRED AFTER THE METER EXCEPT WHERE A MANIFOLD (MANIBLOCK) SYSTEM IS USED DIRECTLY AFTER THE METER AND IS SUPPORTED.
 9. THE METER SHALL BE SECURED WITH UNISTRUT BEFORE AND AFTER THE INLET AND OUTLET VALVES AS SHOWN. UNISTRUT SHALL BE ANCHORED TO THE COPPER PIPE.
 10. GROUNDING IS REQUIRED TO ELIMINATE POTENTIAL FOR DISCHARGE OF STATIC ELECTRICITY CAUSED BY FLOW OF WATER THROUGH PIPING. GROUNDING STRAP NOT REQUIRED ON PREFABRICATED LOOPS.
 11. GAS FLEX LINE SERVICES SHALL BE LOCATED A MINIMUM OF 18" FROM THE METER LOOP.
 12. A BACKFLOW PREVENTION ASSEMBLY IS REQUIRED, IT SHALL BE LOCATED BEFORE THE FIRST BRANCH LINE. FOR BACKFLOW PREVENTION ASSEMBLY REQUIREMENTS, INCLUDING LOCATION, SEE SECTION 2.7.L.
 13. THE BACKFLOW PREVENTER SHALL BE SOLDERED OR FIXED FLANGED.



TYPICAL INSTALLATION FOR 3/4" THRU 2" METERS INSIDE NON-SINGLE-FAMILY-RESIDENTIAL CONNECTION HDPE SERVICE

B1-9

DATED 7/2021



METER SIZE	METER/SPOOL LENGTH	CONNECTION TYPE
1 1/2"	13 3/8"	THREADED
2"	17 3/8"	THREADED
3"	17 3/8"	FLANGED
4"	20 3/8"	FLANGED
6"	24 3/8"	FLANGED

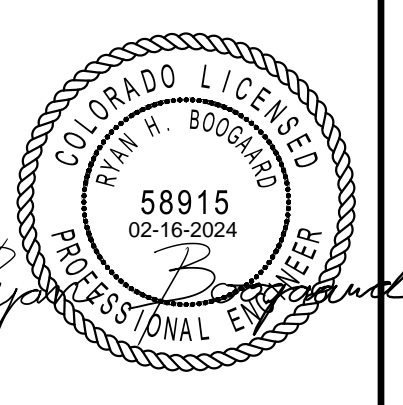
- NOTES:**
1. THE METER SHALL BE PROVIDED AND INSTALLED BY CHEROKEE METROPOLITAN DISTRICT.
 2. METER LENGTHS VARY WITH CERTAIN TYPES OF METER, EXACT DIMENSIONS SHOULD BE OBTAINED FROM CHEROKEE METROPOLITAN DISTRICT
 3. REFERENCE SECTION 2.7.J (WATER METERS) FOR METER LOOP REQUIREMENTS.
 4. METERS MUST BE LOCATED ON THE LOWEST FLOOR OF THE STRUCTURE. METERS SHALL NOT BE INSTALLED IN CRAWL SPACES, AREAS ONLY ACCESSIBLE BY LADDER, OR DESIGNATED STORAGE AREAS.
 5. THE METER LOOP SHALL BE CONSTRUCTED OF COPPER, DUCTILE IRON OR STEEL.
 6. ALL FITTINGS IN THE METER LOOP SHALL BE SOLDERED, FIXED FLANGED OR THREADED.
 7. THE METER MUST BE INSTALLED WITH THE CLEARANCE DIMENSIONS AS SHOWN ABOVE. ONE SIDE OF THE METER SHALL BE FREE FROM ANY OBSTRUCTION. 3' MINIMUM CLEARANCE IS REQUIRED ABOVE AND IN FRONT OF THE METER. 24" MINIMUM CLEARANCE IS REQUIRED BETWEEN THE METER LOOP AND ELECTRICAL OUTLETS.
 8. BRASS INLET AND OUTLET VALVES SHALL BE INSTALLED ON EACH SIDE OF THE METER. INLET AND OUTLET VALVES SHALL BE FULL OPENING, GATE OR BALL VALVES WHICH CLOSE IN DIRECTION OF FLOW. NO CONNECTIONS ARE ALLOWED BETWEEN THE INLET AND OUTLET VALVES.
 9. A MIN. OF 6" IS REQUIRED BETWEEN VALVE AND METER FLANGES, OR 2X'S THE DIAMETER OF METER, WHICHEVER IS GREATER.
 10. A MINIMUM OF 5' OF COPPER IS REQUIRED AFTER THE METER EXCEPT WHERE A MANIFOLD (MANIBLOCK) SYSTEM IS USED DIRECTLY AFTER THE METER AND IS SUPPORTED.
 11. BRACING 1 1/2" & 2" METER SHALL BE AS SHOWN. FOR METERS 3" OR GREATER SHALL BE DESIGNED TO ANCHOR METER LOOP AND KEEP SECURED. SUPPORT SHALL BE ATTACHED TO FLOOR.
 12. GROUNDING IS REQUIRED TO ELIMINATE POTENTIAL FOR DISCHARGE OF STATIC ELECTRICITY CAUSED BY FLOW OF WATER THROUGH PIPING. GROUNDING STRAP NOT REQUIRED ON PREFABRICATED LOOPS.
 13. GAS FLEX LINE SERVICES SHALL BE LOCATED A MINIMUM OF 18" FROM THE METER LOOP.
 14. A BACKFLOW PREVENTION ASSEMBLY IS REQUIRED, IT SHALL BE LOCATED BEFORE THE FIRST BRANCH LINE. FOR BACKFLOW PREVENTION ASSEMBLY REQUIREMENTS, INCLUDING LOCATION, SEE SECTION 2.7.L.
 15. THE BACKFLOW PREVENTER SHALL BE SOLDERED OR FIXED FLANGED.



TYPICAL INSTALLATION FOR 1-1/2" THRU 6" METERS INSIDE BUILDING

B1-11A

DATED 11/2020



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REV.	DATE	DESCRIPTION
Submitted by: RHB	06 FEB 2024	
Drawn by: LCG		
Reviewed by: RHB		
Submitted by: RHB		
Scale: 1/4" = 1'-0"		
Project Number: E32002P		

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RCH Valley Real Color Holdings, LLC
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 Colorado Springs, CO 80915

PLUMBING DETAILS

SHEET NUMBER
PE502

SANITARY SEWER DEMAND

Table with columns: EQUIPMENT, QUANTITY, INDIVIDUAL DRAINAGE FIXTURE UNIT, TOTAL DRAINAGE FIXTURE UNITS. Includes items like DRINKING FOUNTAIN, FLOOR DRAINS, KITCHEN SINK, etc.

DOMESTIC COLD WATER DEMAND

Table with columns: EQUIPMENT, OCCUPANCY, TYPE OF SUPPLY CONTROL, QUANTITY, COMBINED WATER SUPPLY FIXTURE UNITS (WSFU), TOTAL WATER SUPPLY FIXTURE UNITS (WSFU). Includes items like DRINKING FOUNTAIN, EMERGENCY EYE WASH, etc.

WATER HEATER (GAS)

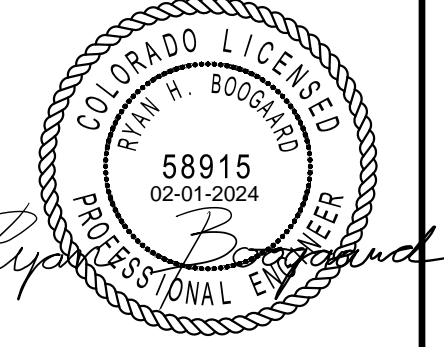
Table with columns: LABEL, LOCATION, TANK SIZE (GAL), RECOVERY GPH @ 90° ΔT, GAS INPUT (BTUH), EFFICIENCY (UEF), ELECTRICAL (VOLTS, PHASE, Hz), OPERATING WEIGHT (LBS), MANUFACTURER, MODEL, REMARKS. Includes entry WH-1.

RECIRCULATION PUMP SCHEDULE

Table with columns: LABEL, DESIGNATION, LIQUID TYPE, GPM, HEAD (FT), MAX. TEMP. (°F), ELECTRICAL (VOLTS, PHASE, Hz), MANUFACTURER, MODEL, REMARKS. Includes entry RCP-1.

PLUMBING FIXTURE SCHEDULE

Table with columns: LABEL, DESCRIPTION, WASTE, VENT, CW, HW, MANUFACTURER, MODEL, REMARKS. Includes entries for CHB-1, EEW, EWC-1, EWC-2, FD-1, HYD, KS-1, LAV-1, MOP-1, SHR, US-1, WC-1.



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Revision table with columns: REV, Description, Date. Includes entry 1 dated 06/22/23.

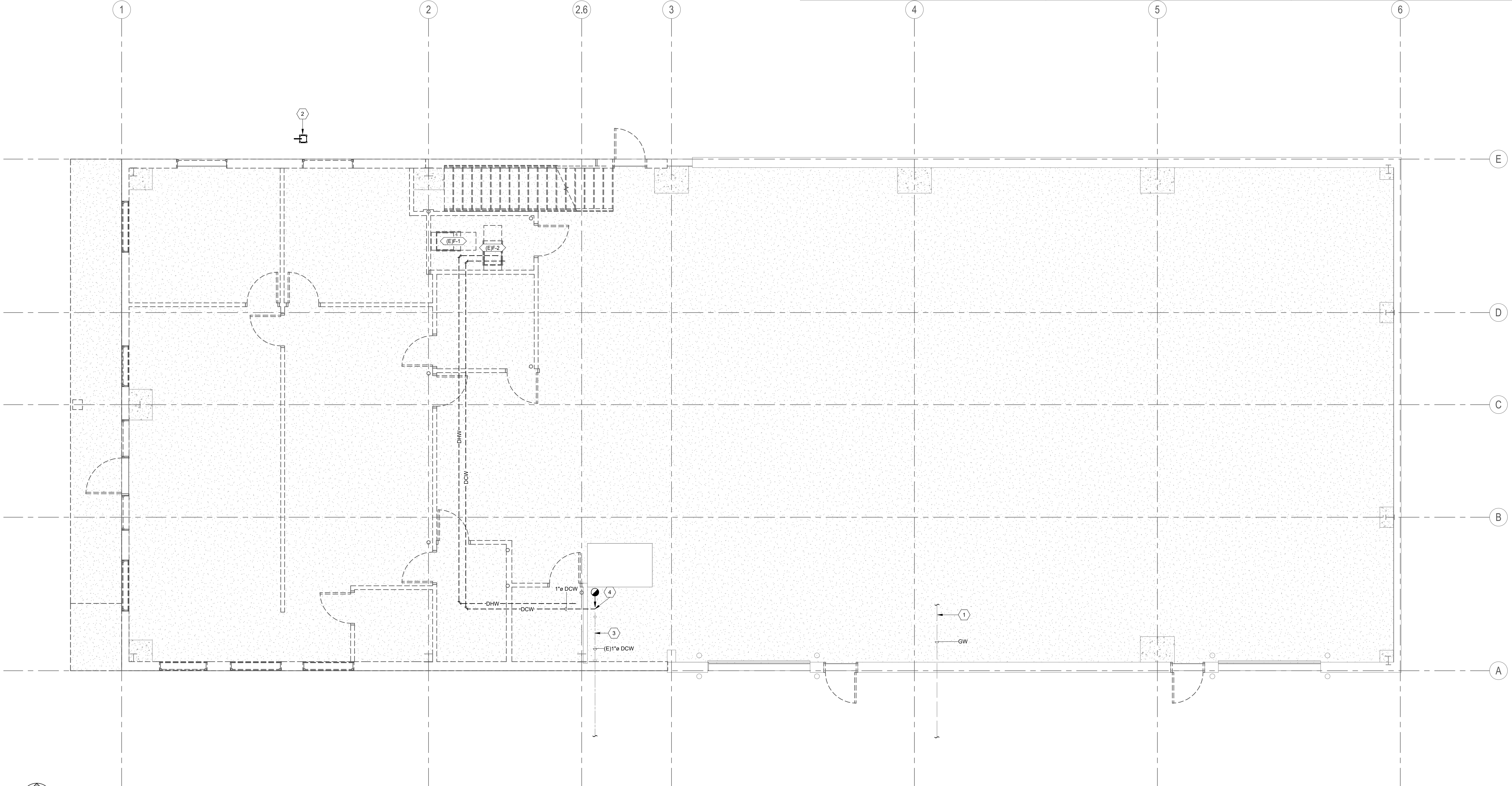
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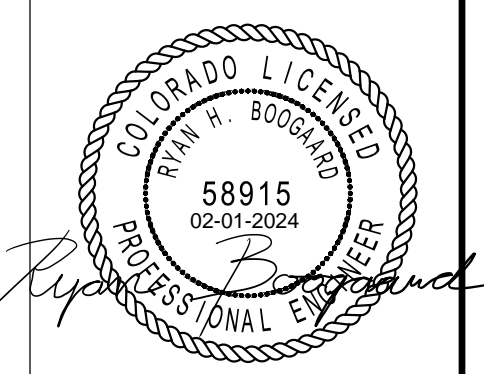
RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

PLUMBING SCHEDULES
SHEET NUMBER
PE601

SHEET KEYNOTES	PLUMBING GENERAL NOTES	PLUMBING GENERAL NOTES
<ol style="list-style-type: none"> EXISTING GREASE WASTE PIPE TO REMAIN. EXISTING GAS METER TO BE RELOCATED. SEE PL104 FOR REFERENCE. EXISTING WATER METER ARRANGEMENT IN THIS APPROXIMATE LOCATION TO REMAIN. SEE DETAIL 1A/P501. EXISTING DCW PIPING TO BE DEMOLISHED FROM THIS APPROXIMATE LOCATION TO EACH PLUMBING FIXTURES. 	<ol style="list-style-type: none"> ALL DOMESTIC WATER PIPING TO BE COPPER. ALL HOT WATER AND HOT WATER RECIRCULATING PIPING TO BE INSULATED WITH 1" UP TO 1-1/4" PIPE AND 1-1/2" INSULATION FOR PIPING 1-1/2" AND LARGER. DOMESTIC COLD WATER PIPING TO BE INSULATED WITH 1/2" UP TO 1-1/4" PIPING AND 1" INSULATION FOR PIPING 1-1/2" OR LARGER. THE CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE. DISSIMILAR METAL PIPING CONNECTIONS SHALL HAVE DIELECTRIC ISOLATORS. ALL DOMESTIC WATER PIPING TO BE PRESSURE TESTED, CLEANED, AND DISINFECTED. PRESSURE TEST: CAP AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 120 PSIG FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED. PROVIDE RESULTS IN WRITTEN REPORT TO ENGINEER UPON COMPLETION. CLEAN AND DISINFECT: FLUSH PIPING SYSTEM, FILL SYSTEM WITH WATER/CHLORINE SOLUTION WITH AT LEAST 50 PPM OF CHLORINE FOR 24 HOURS. THOROUGHLY FLUSH SYSTEM. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. PROVIDE REPORT TO ENGINEER STATING PROCEDURE FOLLOWED AND SIGNATURES OF GC AND THAT OF PERSONS PERFORMING PROCEDURE. BALL VALVES SHALL BE FULL PORT AND LEAD FREE. PROVIDE WITH HANDLE/STEM EXTENSIONS FOR PROPER FUNCTION WHEN FULLY INSULATED. EXTENSIONS TO BE SEALED AND VAPOR PROOF. ALL PLUMBING PIPING TO BE LOCATED ON WARM SIDE OF BUILDING ENVELOPE. ALL ROOF DRAIN PIPING (PRIMARY AND SECONDARY) TO BE LOCATED IN BUILDING ENVELOPE AND TO BE FULLY INSULATED, INCLUDING ANY ROOF DRAIN BOWLS. WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER PLUMBING AND DRAINAGE INSTITUTE (STANDARD PDI-WH 201) REQUIREMENTS IN ACCESSIBLE LOCATIONS ON THE COLD WATER AND HOT WATER PIPING WHERE FLUSH VALVES OR QUICK CLOSING VALVES ARE USED. ALL DOMESTIC WASTE AND VENT PIPING TO BE CAST IRON OR PVC INSULATED TO MEET FLAME SPREAD AND SMOKE DEVELOPED INDEX. PROVIDE BALANCE REPORT OF DOMESTIC WATER RECIRCULATING SYSTEM TO ENGINEER. PROVIDE P&T PORTS AND PRESSURE GAUGES ON EACH SIDE OF RECIRCULATING PUMP. PROVIDE THERMOMETER ON DISCHARGE SIDE OF PUMP. TEST WASTE AND VENT PIPING FOR LEAKAGE. SEE SPECIFICATIONS. COORDINATE ANY NECESSARY SAW CUTTING, BACKFILL, AND NEW CONCRETE WITH GENERAL. PROVIDE A SAND BED WITH SIX (6") INCHES MINIMUM COVERAGE AROUND ALL BELOW GRADE PIPES. PROVIDE BACKFILL FREE OF BOULDERS LARGER THAN TWO (2") INCHES. COMPACT AND TEST ALL BACKFILL ACCORDING TO ASTM COMPACTION STANDARDS OR PROVIDE PEA GRAVEL BACKFILL. PROVIDE MINIMUM TRENCH WIDTH OF NOT LESS THAN 1.5 TIMES THE PIPE OUTSIDE DIAMETER PLUS 12 INCHES. 	<ol style="list-style-type: none"> PIPING SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING WITHIN 12" FROM SUPPORTING STRUCTURE. WHERE JURISDICTION REQUIRES, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SEISMIC RESTRAINT. PROVIDE DESIGN DRAWINGS TO AUTHORITY HAVING JURISDICTION AND MECHANICAL ENGINEER FOR REVIEW. PROVIDE PORTABLE PUMP (LITTLE GIANT UPSP-5 OR EQUAL) TO OWNER FOR HYDRAULIC ELEVATOR SLUMP. PROVIDE PLUG IN MOISTURE SENSOR WITH AUDIBLE ALARM (FLOODMASTER RS-996 OR EQUAL). NOT REQUIRED FOR TRACTION ELEVATORS. ALL PIPING THROUGH A FOUNDATION WALL OR UNDER A FOOTING TO BE PROVIDED WITH PIPE SLEEVE 2 PIPE SIZES LARGER THAN PIPE PASSING THROUGH WALL OR UNDER FOOTING. SEAL WITH CAULK OR FOAM. PIPE SLEEVE UNDER FOOTING TO BE A MINIMUM OF 2" BELOW FOOTING. PIPE TO BE IRON AND EXTEND BEYOND THE WIDTH OF THE FOOTING AT A 45 DEGREE ON BOTH SIDES OF FOOTING. ALL PLUMBING SYSTEM SHOULD COMPLY WITH 2018 IPC AND CO STATE AMENDMENTS TO 2018 IPC. PLUMBING PIPING SCHEDULE: <ul style="list-style-type: none"> A. DOMESTIC WATER ABOVE GRADE = TYPE L COPPER - SOLDERED B. DOMESTIC WATER BELOW GRADE = TYPE K COPPER - SOLDERED C. WASTE & VENT ABOVE GRADE = CAST IRON - HUBLESS COUPLINGS WITH HEAVY DUTY COUPLINGS D. WASTE & VENT BELOW GRADE = DWWV SOLID CORE PVC - SOLVENT CEMENT E. NATURAL GAS PIPING 2" AND SMALLER = SCHEDULE 40 BLACK STEEL PIPE - THREADED F. NATURAL GAS PIPING BELOW GRADE = POLYETHYLENE PIPE - FUSION WELDED



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



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REV.	Submitted by:	Drawn by:	Reviewed by:	Submitted by:
	06 FEB 2024	RHB	RHB	RHB
	File:	LCG	Scale:	Project Number:
			As indicated	EJ230027P

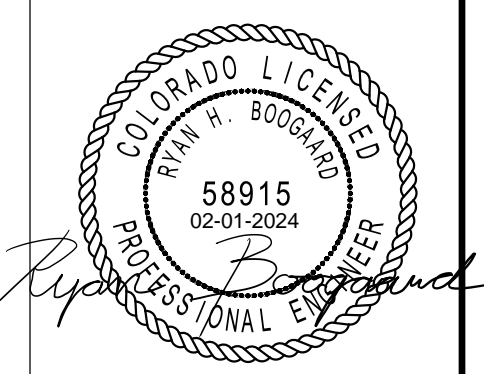
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LEVEL 1 PLUMBING DEMO PLAN

1 2 3 4 5

SHEET KEYNOTES	PLUMBING GENERAL NOTES	PLUMBING GENERAL NOTES
<p>1 THIS SHEET IS ONLY FOR REFERENCE.</p>	<p>1. ALL DOMESTIC WATER PIPING TO BE COPPER. ALL HOT WATER AND HOT WATER RECIRCULATING PIPING TO BE INSULATED WITH 1" UP TO 1-1/4" PIPE AND 1-1/2" INSULATION FOR PIPING 1-1/2" AND LARGER. DOMESTIC COLD WATER PIPING TO BE INSULATED WITH 1/2" UP TO 1-1/4" PIPING AND 1" INSULATION FOR PIPING 1-1/2" OR LARGER.</p> <p>2. THE CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE.</p> <p>3. DISSIMILAR METAL PIPING CONNECTIONS SHALL HAVE DIELECTRIC ISOLATORS.</p> <p>4. ALL DOMESTIC WATER PIPING TO BE PRESSURE TESTED, CLEANED, AND DISINFECTED. PRESSURE TEST, CAP AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 120 PSIG FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED. PROVIDE RESULTS IN WRITTEN REPORT TO ENGINEER UPON COMPLETION. CLEAN AND DISINFECT. FLUSH PIPING SYSTEM. FILL SYSTEM WITH WATER/CHLORINE SOLUTION WITH AT LEAST 50 PPM OF CHLORINE FOR 24 HOURS. THOROUGHLY FLUSH SYSTEM. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. PROVIDE REPORT TO ENGINEER STATING PROCEDURE FOLLOWED AND SIGNATURES OF GC AND THAT OF PERSONS PERFORMING PROCEDURE.</p> <p>5. BALL VALVES SHALL BE FULL PORT AND LEAD FREE. PROVIDE WITH HANDLE/STEM EXTENSIONS FOR PROPER FUNCTION WHEN FULLY INSULATED. EXTENSIONS TO BE SEALED AND VAPOR PROOF.</p> <p>6. ALL PLUMBING PIPING TO BE LOCATED ON WARM SIDE OF BUILDING ENVELOPE. ALL ROOF DRAIN PIPING (PRIMARY AND SECONDARY) TO BE LOCATED IN BUILDING ENVELOPE AND TO BE FULLY INSULATED, INCLUDING ANY ROOF DRAIN BOWLS.</p> <p>7. WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER PLUMBING AND DRAINAGE INSTITUTE (STANDARD PDI-WH 201) REQUIREMENTS IN ACCESSIBLE LOCATIONS ON THE COLD WATER AND HOT WATER PIPING WHERE FLUSH VALVES OR QUICK CLOSING VALVES ARE USED.</p> <p>8. ALL DOMESTIC WASTE AND VENT PIPING TO BE CAST IRON OR PVC INSULATED TO MEET FLAME SPREAD AND SMOKE DEVELOPED INDEX.</p> <p>9. PROVIDE BALANCE REPORT OF DOMESTIC WATER RECIRCULATING SYSTEM TO ENGINEER. PROVIDE PAT PORTS AND PRESSURE GAUGES ON EACH SIDE OF RECIRCULATING PUMP. PROVIDE THERMOMETER ON DISCHARGE SIDE OF PUMP.</p> <p>10. TEST WASTE AND VENT PIPING FOR LEAKAGE. SEE SPECIFICATIONS.</p> <p>11. COORDINATE ANY NECESSARY SAW CUTTING, BACKFILL, AND NEW CONCRETE WITH GENERAL.</p> <p>12. PROVIDE A SAND BED WITH SIX (6") INCHES MINIMUM COVERAGE AROUND ALL BELOW GRADE PIPES. PROVIDE BACKFILL FREE OF BOULDERS LARGER THAN TWO (2") INCHES. COMPACT AND TEST ALL BACKFILL ACCORDING TO ASTM COMPACTION STANDARDS OR PROVIDE PEA GRAVEL BACKFILL. PROVIDE MINIMUM TRENCH WIDTH OF NOT LESS THAN 1.5 TIMES THE PIPE OUTSIDE DIAMETER PLUS 12 INCHES.</p>	<p>16. PIPING SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING WITHIN 12" FROM SUPPORTING STRUCTURE.</p> <p>17. WHERE JURISDICTION REQUIRES, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SEISMIC RESTRAINT. PROVIDE DESIGN DRAWINGS TO AUTHORITY HAVING JURISDICTION AND MECHANICAL ENGINEER FOR REVIEW.</p> <p>18. PROVIDE PORTABLE PUMP (LITTLE GIANT UPSP-5 OR EQUAL) TO OWNER FOR HYDRAULIC ELEVATOR SLUMP. PROVIDE PLUG IN MOISTURE SENSOR WITH AUDIBLE ALARM (FLOODMASTER RS-996 OR EQUAL). NOT REQUIRED FOR TRACTION ELEVATORS.</p> <p>19. ALL PIPING THROUGH A FOUNDATION WALL OR UNDER A FOOTING TO BE PROVIDED WITH PIPE SLEEVE 2 PIPE SIZES LARGER THAN PIPE PASSING THROUGH WALL OR UNDER FOOTING. SEAL WITH CAULK OR FOAM. PIPE SLEEVE UNDER FOOTING TO BE A MINIMUM OF 2" BELOW FOOTING. PIPE TO BE IRON AND EXTEND BEYOND THE WIDTH OF THE FOOTING AT A 45 DEGREE ON BOTH SIDES OF FOOTING.</p> <p>20. ALL PLUMBING SYSTEM SHOULD COMPLIANCE WITH 2018 IPC AND CO STATE AMENDMENTS TO 2018 IPC.</p> <p>21. PLUMBING PIPING SCHEDULE:</p> <ul style="list-style-type: none"> A. DOMESTIC WATER ABOVE GRADE = TYPE L COPPER - SOLDERED B. DOMESTIC WATER BELOW GRADE = TYPE K COPPER - SOLDERED C. WASTE & VENT ABOVE GRADE = CAST IRON - HUBLESS COUPLINGS WITH HEAVY DUTY COUPLINGS D. WASTE & VENT BELOW GRADE = DWV SOLID CORE PVC - SOLVENT CEMENT E. NATURAL GAS PIPING 2" AND SMALLER = SCHEDULE 40 BLACK STEEL PIPE - THREADED F. NATURAL GAS PIPING BELOW GRADE = POLYETHYLENE PIPE - FUSION WELDED



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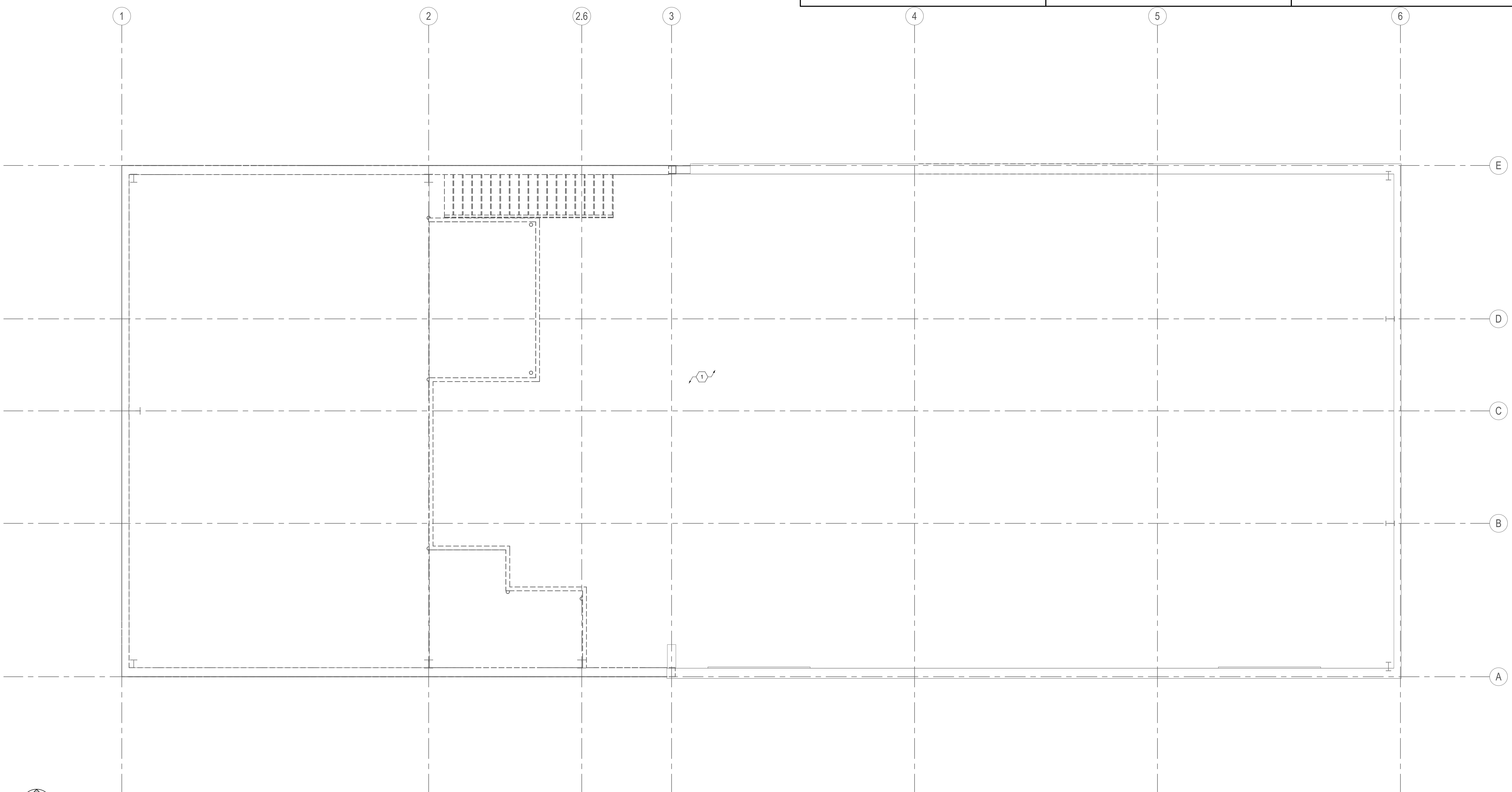
REV.	DESCRIPTION	DATE	APP.

Designed by:	RHB	Submitted:	06 FEB 2024
Drawn by:	LCG	File:	
Reviewed by:	RHB	Scale:	As indicated
Submitted by:	RHB	Project Number:	EJ230027P

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LEVEL 2 PLUMBING DEMO PLAN



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

1

2

3

4

5

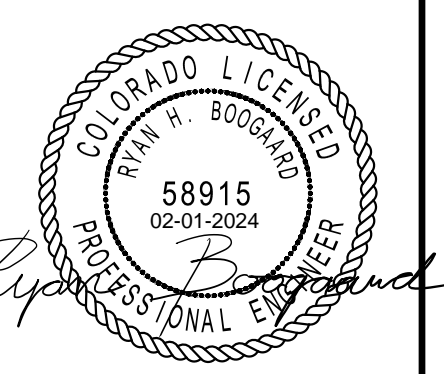
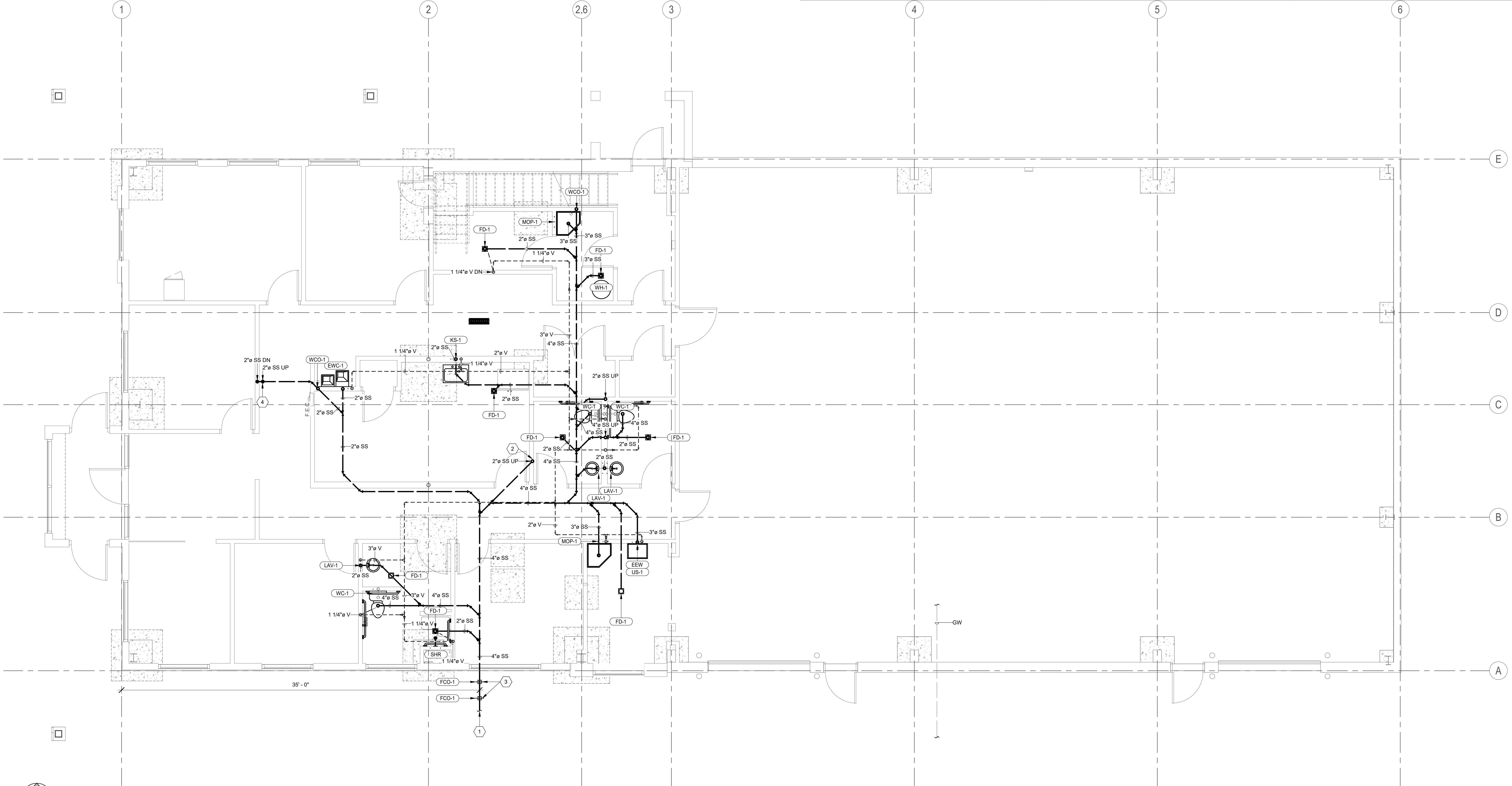
SHEET KEYNOTES	PLUMBING GENERAL NOTES	PLUMBING GENERAL NOTES
<p>1 4" SS INVERT AT BUILDING WALL = 20" BELOW FINISHED FLOOR MINIMUM (1/8" FT. MIN SLOPE), CONTINUED BY CIVIL.</p> <p>2 WASTE PIPE RISE UP TO SERVE BREAK ROOM SINK IN THIS APPROXIMATE LOCATION.</p> <p>3 PROVIDE TWO-WAY CLEANOUT IN COMPLIANCE OF COLORADO STATE AMENDMENT TO SECTION 708.1.3 IN THIS APPROXIMATE LOCATION.</p> <p>4 WASTE PIPE OFFSET AT CEILING SPACE TO RUN UP TO SECOND FLOOR WALL.</p>	<p>1. ALL DOMESTIC WATER PIPING TO BE COPPER. ALL HOT WATER AND HOT WATER RECIRCULATING PIPING TO BE INSULATED WITH 1" UP TO 1-1/4" PIPE AND 1-1/2" INSULATION FOR PIPING 1-1/2" AND LARGER. DOMESTIC COLD WATER PIPING TO BE INSULATED WITH 1/2" UP TO 1-1/4" PIPING AND 1" INSULATION FOR PIPING 1-1/2" OR LARGER.</p> <p>2. THE CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE.</p> <p>3. DISSIMILAR METAL PIPING CONNECTIONS SHALL HAVE DIELECTRIC ISOLATORS.</p> <p>4. ALL DOMESTIC WATER PIPING TO BE PRESSURE TESTED, CLEANED, AND DISINFECTED. PRESSURE TEST: CAP AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 120 PSIG FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED. PROVIDE RESULTS IN WRITTEN REPORT TO ENGINEER UPON COMPLETION. CLEAN AND DISINFECT: FLUSH PIPING SYSTEM. FILL SYSTEM WITH WATER-CHLORINE SOLUTION WITH AT LEAST 50 PPM OF CHLORINE FOR 24 HOURS. THOROUGHLY FLUSH SYSTEM. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. PROVIDE REPORT TO ENGINEER STATING PROCEDURE FOLLOWED AND SIGNATURES OF GC AND THAT OF PERSONS PERFORMING PROCEDURE.</p> <p>5. BALL VALVES SHALL BE FULL PORT AND LEAD FREE. PROVIDE WITH HANDLE/STEM EXTENSIONS FOR PROPER FUNCTION WHEN FULLY INSULATED. EXTENSIONS TO BE SEALED AND VAPOR PROOF.</p> <p>6. ALL PLUMBING PIPING TO BE LOCATED ON WARM SIDE OF BUILDING ENVELOPE. ALL ROOF DRAIN PIPING (PRIMARY AND SECONDARY) TO BE LOCATED IN BUILDING ENVELOPE AND TO BE FULLY INSULATED, INCLUDING ANY ROOF DRAIN BOWLS.</p> <p>7. WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER PLUMBING AND DRAINAGE INSTITUTE (STANDARD PDI-WH 201) REQUIREMENTS IN ACCESSIBLE LOCATIONS ON THE COLD WATER AND HOT WATER PIPING WHERE FLUSH VALVES OR QUICK CLOSING VALVES ARE USED.</p> <p>8. ALL DOMESTIC WASTE AND VENT PIPING TO BE CAST IRON OR PVC INSULATED TO MEET FLAME SPREAD AND SMOKE DEVELOPED INDEX.</p> <p>9. PROVIDE BALANCE REPORT OF DOMESTIC WATER RECIRCULATING SYSTEM TO ENGINEER. PROVIDE P&T PORTS AND PRESSURE GAUGES ON EACH SIDE OF RECIRCULATING PUMP. PROVIDE THERMOMETER ON DISCHARGE SIDE OF PUMP.</p> <p>10. TEST WASTE AND VENT PIPING FOR LEAKAGE. SEE SPECIFICATIONS.</p> <p>11. COORDINATE ANY NECESSARY SAW CUTTING, BACKFILL, AND NEW CONCRETE WITH GENERAL.</p> <p>12. PROVIDE A SAND BED WITH SIX (6") INCHES MINIMUM COVERAGE AROUND ALL BELOW GRADE PIPES. PROVIDE BACKFILL FREE OF BOULDERS LARGER THAN TWO (2") INCHES. COMPACT AND TEST ALL BACKFILL ACCORDING TO ASTM COMPACTION STANDARDS OR PROVIDE PEA GRAVEL BACKFILL. PROVIDE MINIMUM TRENCH WIDTH OF NOT LESS THAN 1.5 TIMES THE PIPE OUTSIDE DIAMETER PLUS 12 INCHES.</p>	<p>16. PIPING SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING WITHIN 12" FROM SUPPORTING STRUCTURE.</p> <p>17. WHERE JURISDICTION REQUIRES, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SEISMIC RESTRAINT. PROVIDE DESIGN DRAWINGS TO AUTHORITY HAVING JURISDICTION AND MECHANICAL ENGINEER FOR REVIEW.</p> <p>18. PROVIDE PORTABLE PUMP (LITTLE GIANT UPSP-5 OR EQUAL) TO OWNER FOR HYDRAULIC ELEVATOR SUMP. PROVIDE PLUG IN MOISTURE SENSOR WITH AUDIBLE ALARM (FLOODMASTER RS-096 OR EQUAL). NOT REQUIRED FOR TRACTION ELEVATORS.</p> <p>19. ALL PIPING THROUGH A FOUNDATION WALL OR UNDER A FOOTING TO BE PROVIDED WITH PIPE SLEEVE 2 PIPE SIZES LARGER THAN PIPE PASSING THROUGH WALL OR UNDER FOOTING. SEAL WITH CAULK OR FOAM. PIPE SLEEVE UNDER FOOTING TO BE A MINIMUM OF 2" BELOW FOOTING. PIPE TO BE IRON AND EXTEND BEYOND THE WIDTH OF THE FOOTING AT A 45 DEGREE ON BOTH SIDES OF FOOTING.</p> <p>20. ALL PLUMBING SYSTEM SHOULD COMPLIANCE WITH 2018 IPC AND CO STATE AMENDMENTS TO 2018 IPC.</p> <p>21. PLUMBING PIPING SCHEDULE:</p> <ul style="list-style-type: none"> A. DOMESTIC WATER ABOVE GRADE= TYPE L COPPER - SOLDERED B. DOMESTIC WATER BELOW GRADE= TYPE K COPPER - SOLDERED C. WASTE & VENT ABOVE GRADE = CAST IRON - HUBLESS COUPLINGS WITH HEAVY DUTY COUPLINGS D. WASTE & VENT BELOW GRADE = DWV SOLID CORE PVC - SOLVENT CEMENT E. NATURAL GAS PIPING 2" AND SMALLER = SCHEDULE 40 BLACK STEEL PIPE - THREADED F. NATURAL GAS PIPING BELOW GRADE = POLYETHYLENE PIPE - FUSION WELDED

D

C

B

A



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REV.	Submitted by:	Drawn by:	Reviewed by:	Submitted by:
	RHB	RHB	RHB	RHB
	06 FEB 2024	LCG		
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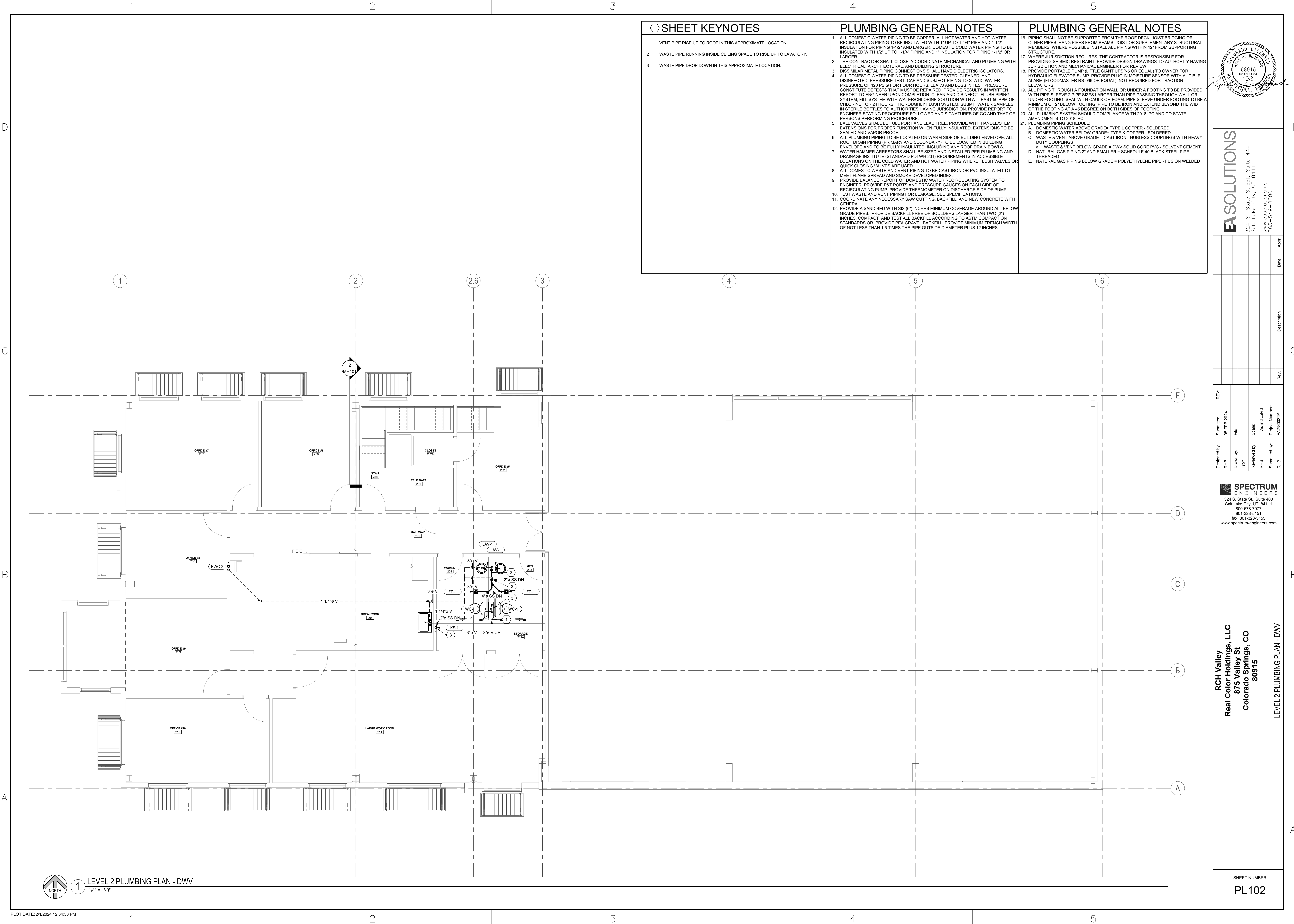
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LEVEL 1 PLUMBING PLAN - DWV

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

SHEET NUMBER
PL101



SHEET KEYNOTES	PLUMBING GENERAL NOTES	PLUMBING GENERAL NOTES
<ol style="list-style-type: none"> VENT PIPE RISE UP TO ROOF IN THIS APPROXIMATE LOCATION. WASTE PIPE RUNNING INSIDE CEILING SPACE TO RISE UP TO LAVATORY. WASTE PIPE DROP DOWN IN THIS APPROXIMATE LOCATION. 	<ol style="list-style-type: none"> ALL DOMESTIC WATER PIPING TO BE COPPER. ALL HOT WATER AND HOT WATER RECIRCULATING PIPING TO BE INSULATED WITH 1" UP TO 1-1/4" PIPE AND 1-1/2" INSULATION FOR PIPING 1-1/2" AND LARGER. DOMESTIC COLD WATER PIPING TO BE INSULATED WITH 1/2" UP TO 1-1/4" PIPING AND 1" INSULATION FOR PIPING 1-1/2" OR LARGER. THE CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE. DISSIMILAR METAL PIPING CONNECTIONS SHALL HAVE DIELECTRIC ISOLATORS. ALL DOMESTIC WATER PIPING TO BE PRESSURE TESTED, CLEANED, AND DISINFECTED. PRESSURE TEST, CAP AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 120 PSIG FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED. PROVIDE RESULTS IN WRITTEN REPORT TO ENGINEER UPON COMPLETION. CLEAN AND DISINFECT: FLUSH PIPING SYSTEM, FILL SYSTEM WITH WATER/CHLORINE SOLUTION WITH AT LEAST 50 PPM OF CHLORINE FOR 24 HOURS. THOROUGHLY FLUSH SYSTEM. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. PROVIDE REPORT TO ENGINEER STATING PROCEDURE FOLLOWED AND SIGNATURES OF GC AND THAT OF PERSONS PERFORMING PROCEDURE. BALL VALVES SHALL BE FULL PORT AND LEAD FREE. PROVIDE WITH HANDLE/STEM EXTENSIONS FOR PROPER FUNCTION WHEN FULLY INSULATED. EXTENSIONS TO BE SEALED AND VAPOR PROOF. ALL PLUMBING PIPING TO BE LOCATED ON WARM SIDE OF BUILDING ENVELOPE. ALL ROOF DRAIN PIPING (PRIMARY AND SECONDARY) TO BE LOCATED IN BUILDING ENVELOPE AND TO BE FULLY INSULATED, INCLUDING ANY ROOF DRAIN BOWLS. WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED PER PLUMBING AND DRAINAGE INSTITUTE (STANDARD PDI-WH 201) REQUIREMENTS IN ACCESSIBLE LOCATIONS ON THE COLD WATER AND HOT WATER PIPING WHERE FLUSH VALVES OR QUICK CLOSING VALVES ARE USED. ALL DOMESTIC WASTE AND VENT PIPING TO BE CAST IRON OR PVC INSULATED TO MEET FLAME SPREAD AND SMOKE DEVELOPED INDEX. PROVIDE BALANCE REPORT OF DOMESTIC WATER RECIRCULATING SYSTEM TO ENGINEER. PROVIDE P&T PORTS AND PRESSURE GAUGES ON EACH SIDE OF RECIRCULATING PUMP. PROVIDE THERMOMETER ON DISCHARGE SIDE OF PUMP. TEST WASTE AND VENT PIPING FOR LEAKAGE. SEE SPECIFICATIONS. COORDINATE ANY NECESSARY SAW CUTTING, BACKFILL, AND NEW CONCRETE WITH GENERAL. PROVIDE A SAND BED WITH SIX (6") INCHES MINIMUM COVERAGE AROUND ALL BELOW GRADE PIPES. PROVIDE BACKFILL FREE OF BOULDERS LARGER THAN TWO (2") INCHES. COMPACT AND TEST ALL BACKFILL ACCORDING TO ASTM COMPACTION STANDARDS OR PROVIDE PEA GRAVEL BACKFILL. PROVIDE MINIMUM TRENCH WIDTH OF NOT LESS THAN 1.5 TIMES THE PIPE OUTSIDE DIAMETER PLUS 12 INCHES. 	<ol style="list-style-type: none"> PIPING SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING WITHIN 12" FROM SUPPORTING STRUCTURE. WHERE JURISDICTION REQUIRES, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SEISMIC RESTRAINT. PROVIDE DESIGN DRAWINGS TO AUTHORITY HAVING JURISDICTION AND MECHANICAL ENGINEER FOR REVIEW. PROVIDE PORTABLE PUMP (LITTLE GIANT UPSP-5 OR EQUAL) TO OWNER FOR HYDRAULIC ELEVATOR SUMP. PROVIDE PLUG IN MOISTURE SENSOR WITH AUDIBLE ALARM (FLOODMASTER RS-996 OR EQUAL). NOT REQUIRED FOR TRACTION ELEVATORS. ALL PIPING THROUGH A FOUNDATION WALL OR UNDER A FOOTING TO BE PROVIDED WITH PIPE SLEEVE 2 PIPE SIZES LARGER THAN PIPE PASSING THROUGH WALL OR UNDER FOOTING. SEAL WITH CAULK OR FOAM. PIPE SLEEVE UNDER FOOTING TO BE A MINIMUM OF 2" BELOW FOOTING. PIPE TO BE IRON AND EXTEND BEYOND THE WIDTH OF THE FOOTING AT A 45 DEGREE ON BOTH SIDES OF FOOTING. ALL PLUMBING SYSTEM SHOULD COMPLIANCE WITH 2018 IPC AND CO STATE AMENDMENTS TO 2018 IPC. PLUMBING PIPING SCHEDULE: <ol style="list-style-type: none"> DOMESTIC WATER ABOVE GRADE = TYPE L COPPER - SOLDERED DOMESTIC WATER BELOW GRADE = TYPE K COPPER - SOLDERED WASTE & VENT ABOVE GRADE = CAST IRON - HUBLESS COUPLINGS WITH HEAVY DUTY COUPLINGS WASTE & VENT BELOW GRADE = DWW SOLID CORE PVC - SOLVENT CEMENT NATURAL GAS PIPING 2" AND SMALLER = SCHEDULE 40 BLACK STEEL PIPE - THREADED NATURAL GAS PIPING BELOW GRADE = POLYETHYLENE PIPE - FUSION WELDED

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REV.	Submitted:	Designed by:	Drawn by:	Reviewed by:	Submitted by:
	06 FEB 2024	RHB	LCG	RHB	RHB
	File:	Scale:	As indicated	Project Number:	EJ230027P

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RCH Valley
 Real Color Holdings, LLC
 875 Valley St
 Colorado Springs, CO
 80915

LEVEL 2 PLUMBING PLAN - DWV

Rev.	Date	Description

SHEET NUMBER
PL102

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

SHEET KEYNOTES

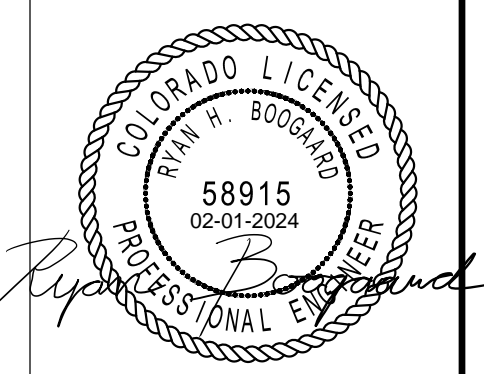
1. PROVIDE VENT KIT AT THE ROOF LOCATION.

PLUMBING GENERAL NOTES

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8. ALL DOMESTIC WASTE AND VENT PIPING TO BE CAST IRON OR PVC INSULATED TO MEET FLAME SPREAD AND SMOKE DEVELOPED INDEX.
9. PROVIDE BALANCE REPORT OF DOMESTIC WATER RECIRCULATING SYSTEM TO ENGINEER. PROVIDE PAT PORTS AND PRESSURE GAUGES ON EACH SIDE OF RECIRCULATING PUMP. PROVIDE THERMOMETER ON DISCHARGE SIDE OF PUMP.
10. TEST WASTE AND VENT PIPING FOR LEAKAGE. SEE SPECIFICATIONS.
11. COORDINATE ANY NECESSARY SAW CUTTING, BACKFILL, AND NEW CONCRETE WITH GENERAL.
12. PROVIDE A SAND BED WITH SIX (6") INCHES MINIMUM COVERAGE AROUND ALL BELOW GRADE PIPES. PROVIDE BACKFILL FREE OF BOULDERS LARGER THAN TWO (2") INCHES. COMPACT AND TEST ALL BACKFILL ACCORDING TO ASTM COMPACTION STANDARDS OR PROVIDE PEA GRAVEL BACKFILL. PROVIDE MINIMUM TRENCH WIDTH OF NOT LESS THAN 1.5 TIMES THE PIPE OUTSIDE DIAMETER PLUS 12 INCHES.

PLUMBING GENERAL NOTES

16. PIPING SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING WITHIN 12" FROM SUPPORTING STRUCTURE.
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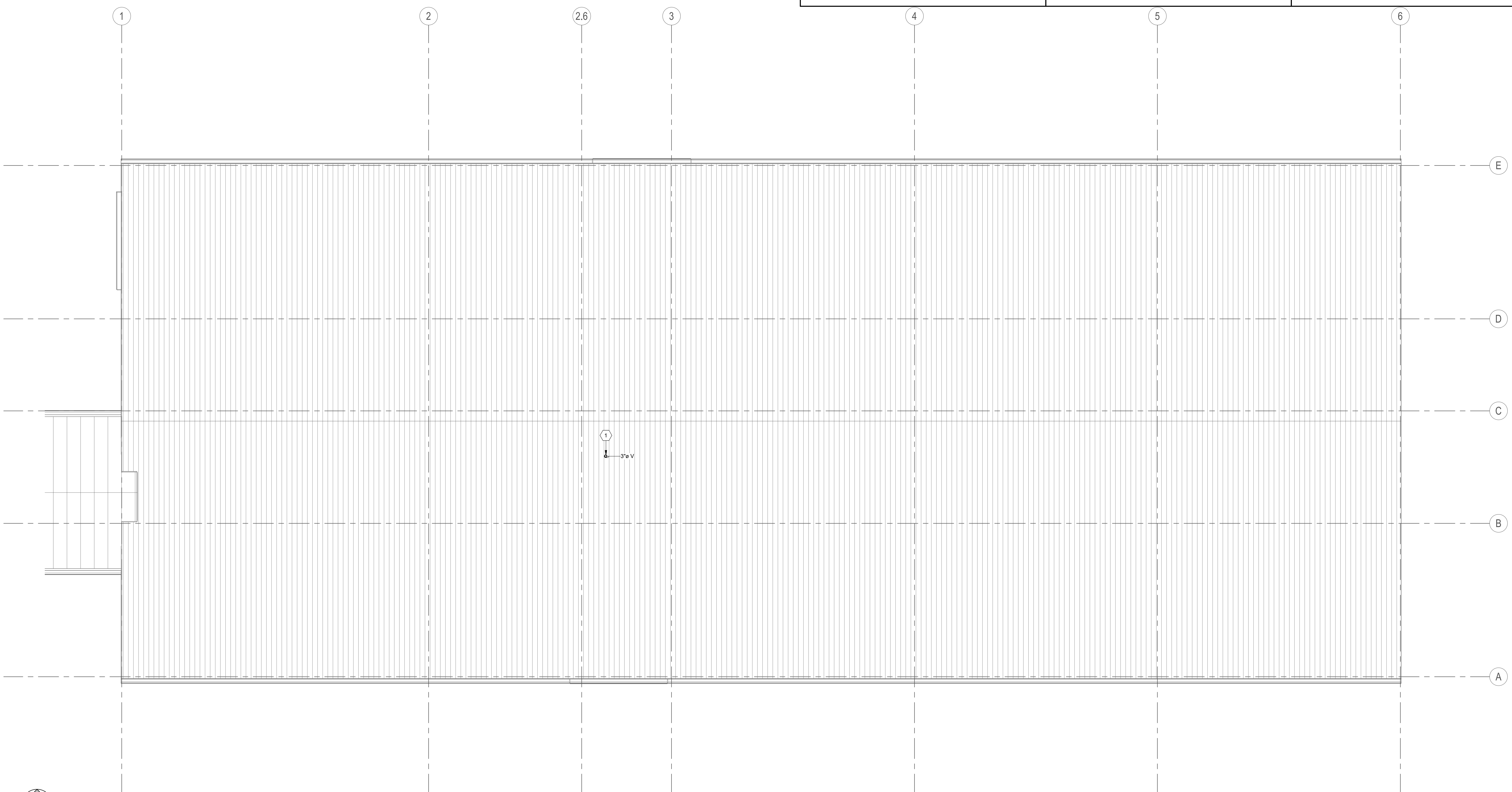
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REV.	DESCRIPTION	DATE	APP.

Designed by: RHB	Submitted by: RHB	Scale: As indicated	Project Number: E230027P
Drawn by: LGG	Reviewed by: RHB	File: 06 FEB 2024	

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 ROOF PLUMBING PLAN - DWV



1 ROOF PLUMBING PLAN - DWV
 1/4" = 1'-0"

SHEET KEYNOTES

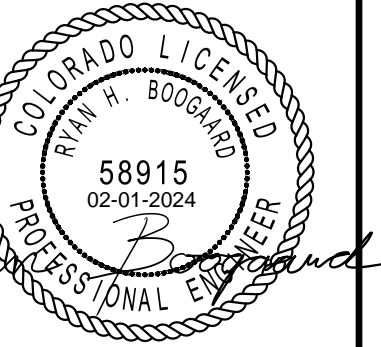
- DCW, DHW and DHWR PIPES RISE UP IN THIS APPROXIMATE LOCATION TO SERVE RESTROOMS.
- GAS METER INFORMATION: PRESSURE: 40Z, CAPACITY: 171 CFH, LONGEST LENGTH: 80 FT
- PROVIDE WITH AN APPROVED TESTABLE CONTINUOUS PRESSURE BACKFLOW PREVENTION ASSEMBLY, PRESSURE VACUUM BREAKER ASSEMBLY, AND SHOULD COMPLIED WITH (ASSE) STANDARD 1055.
- EXISTING WATER METER ARRANGEMENT IN THIS APPROXIMATE LOCATION. SEE DETAIL 1A/P501.

PLUMBING GENERAL NOTES

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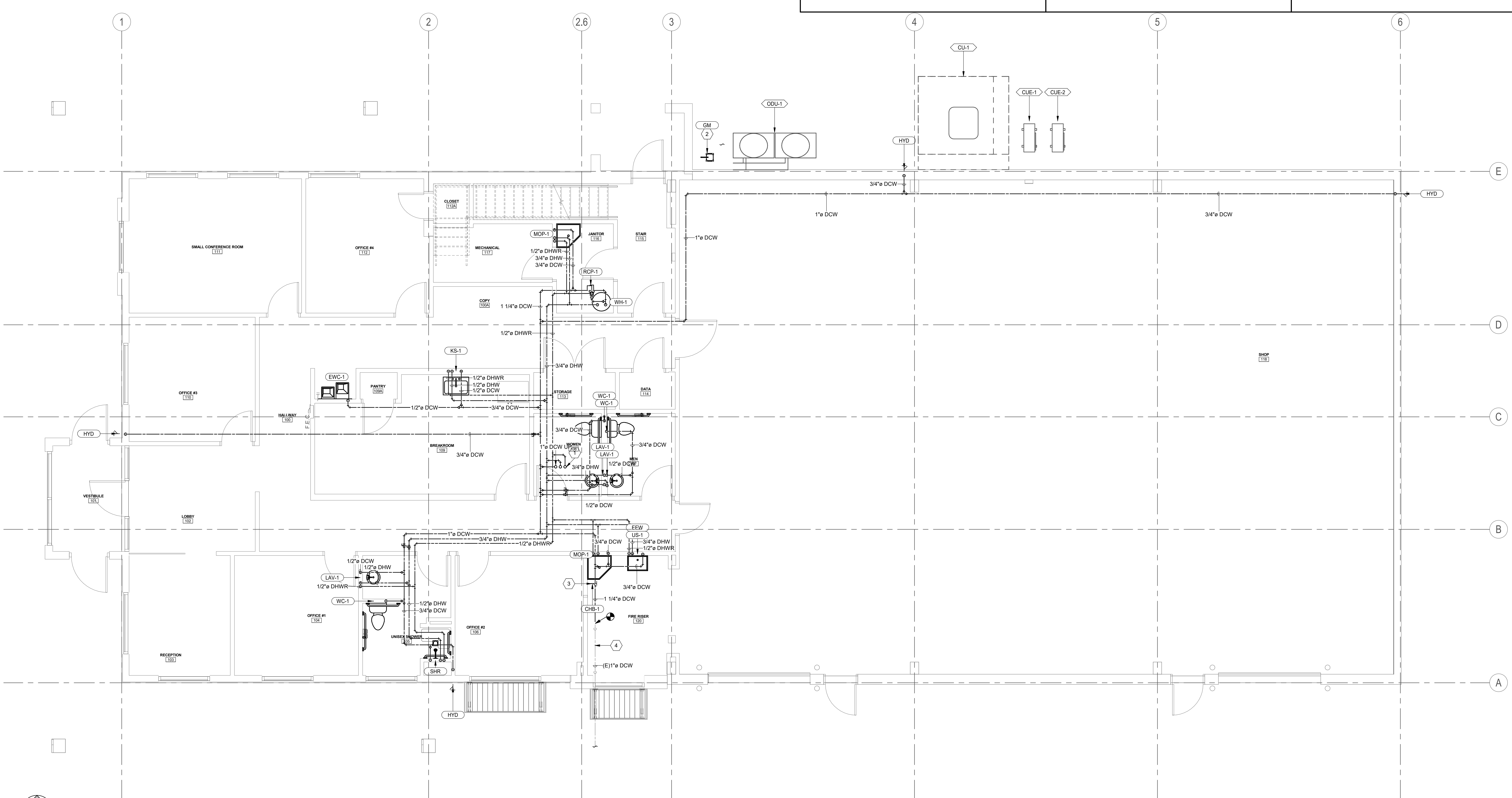
REV.	DATE	DESCRIPTION
2	10.20.23	City Comments R2

Submitted:	06 FEB 2024	REV:	2
Drawn by:	LCG	Scale:	As indicated
Reviewed by:	RHB	Project Number:	ES230027P
Submitted by:	RHB		

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RCH Valley
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SHEET NUMBER
PL104



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

SHEET KEYNOTES

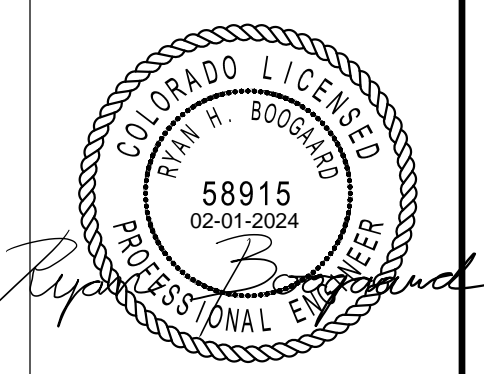
- 1 DCW, DHW AND DHWR PIPES DROP DOWN IN THIS APPROXIMATE LOCATION.
- 2 PROVIDE SHUT OFF VALVE IN THIS APPROXIMATE LOCATION.

PLUMBING GENERAL NOTES

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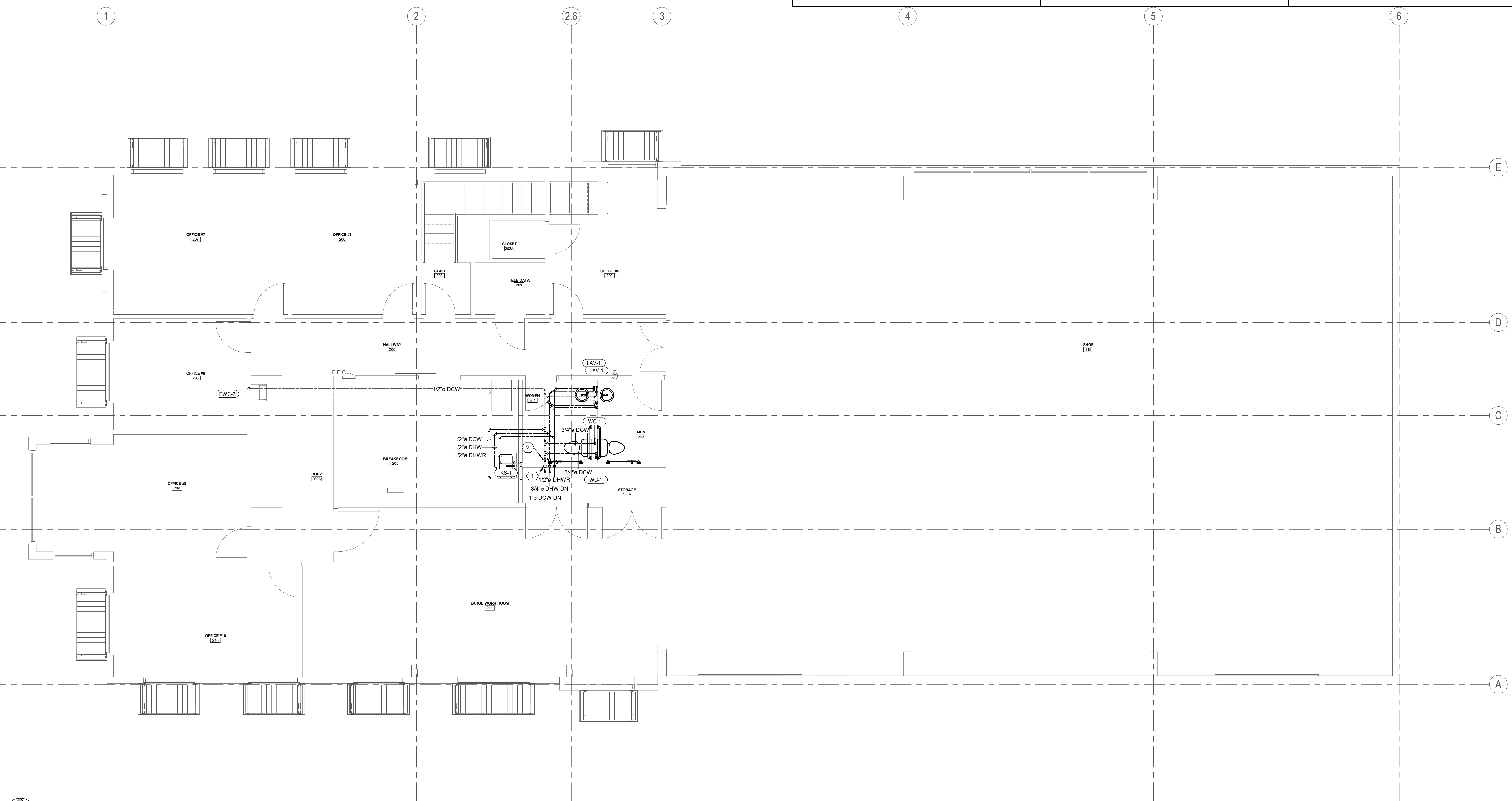
Rev.	Date	Description

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	06 FEB 2024	RHB	LCG	RHB	RHB
	File:	Scale:	Project Number:		
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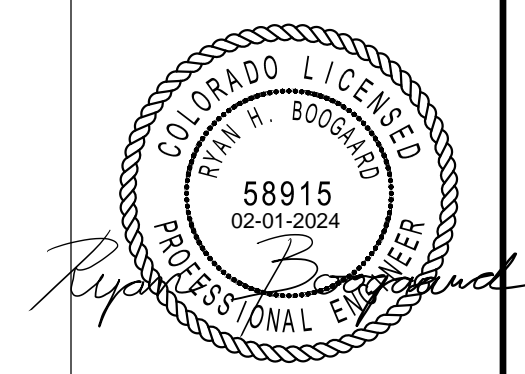
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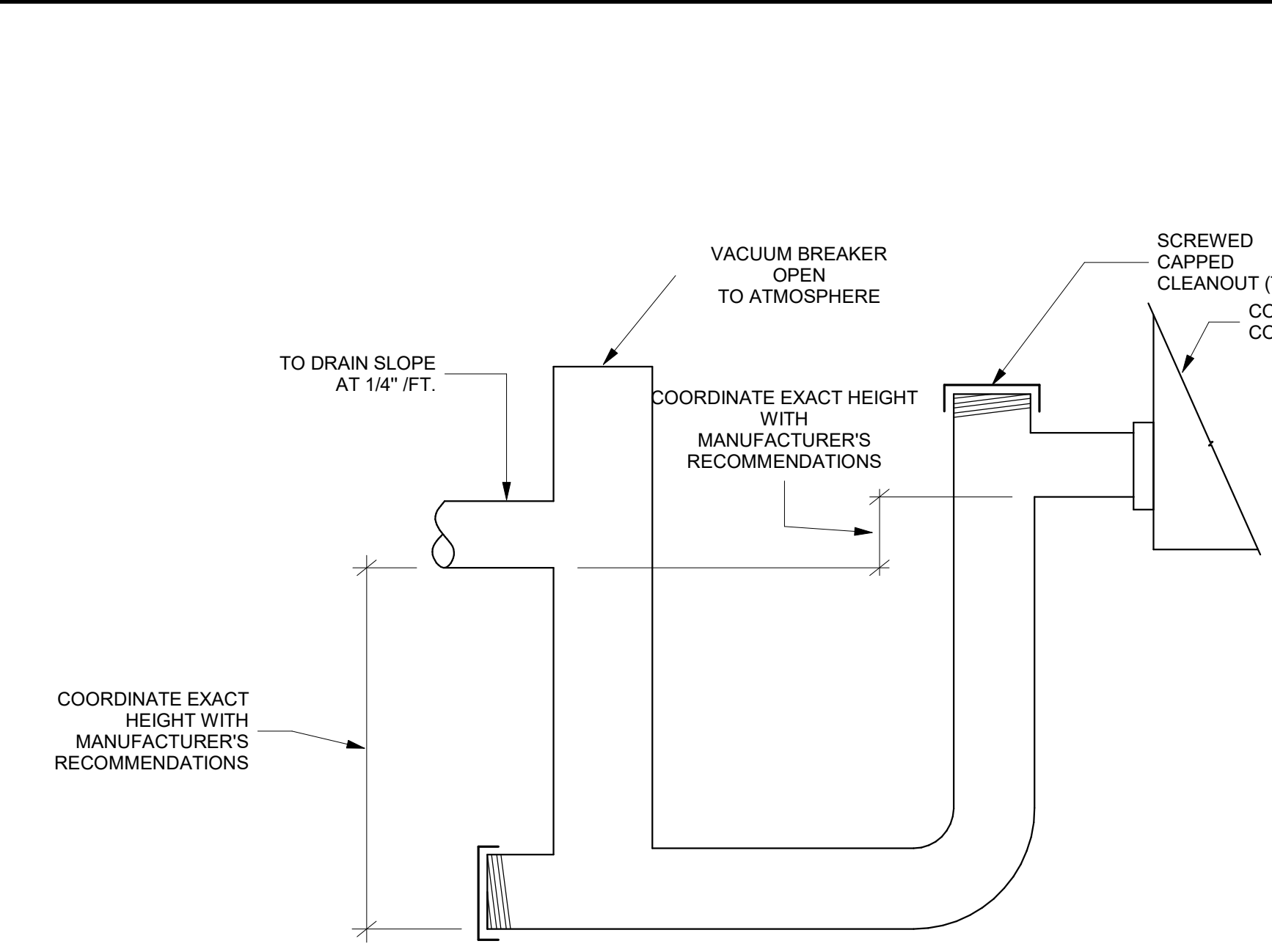
LEVEL 2 PLUMBING PLAN - WATER



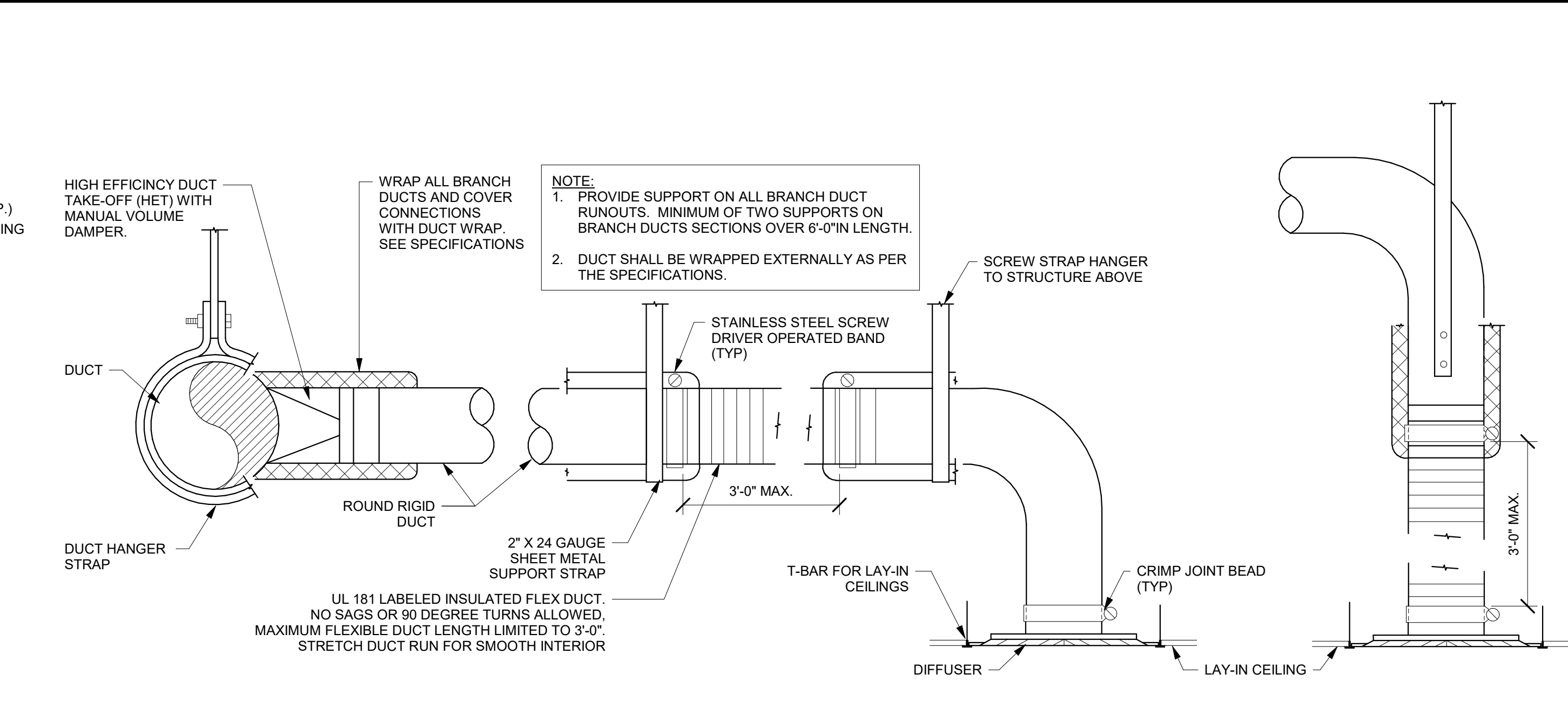
1 LEVEL 2 PLUMBING PLAN - WATER
 1/4" = 1'-0"



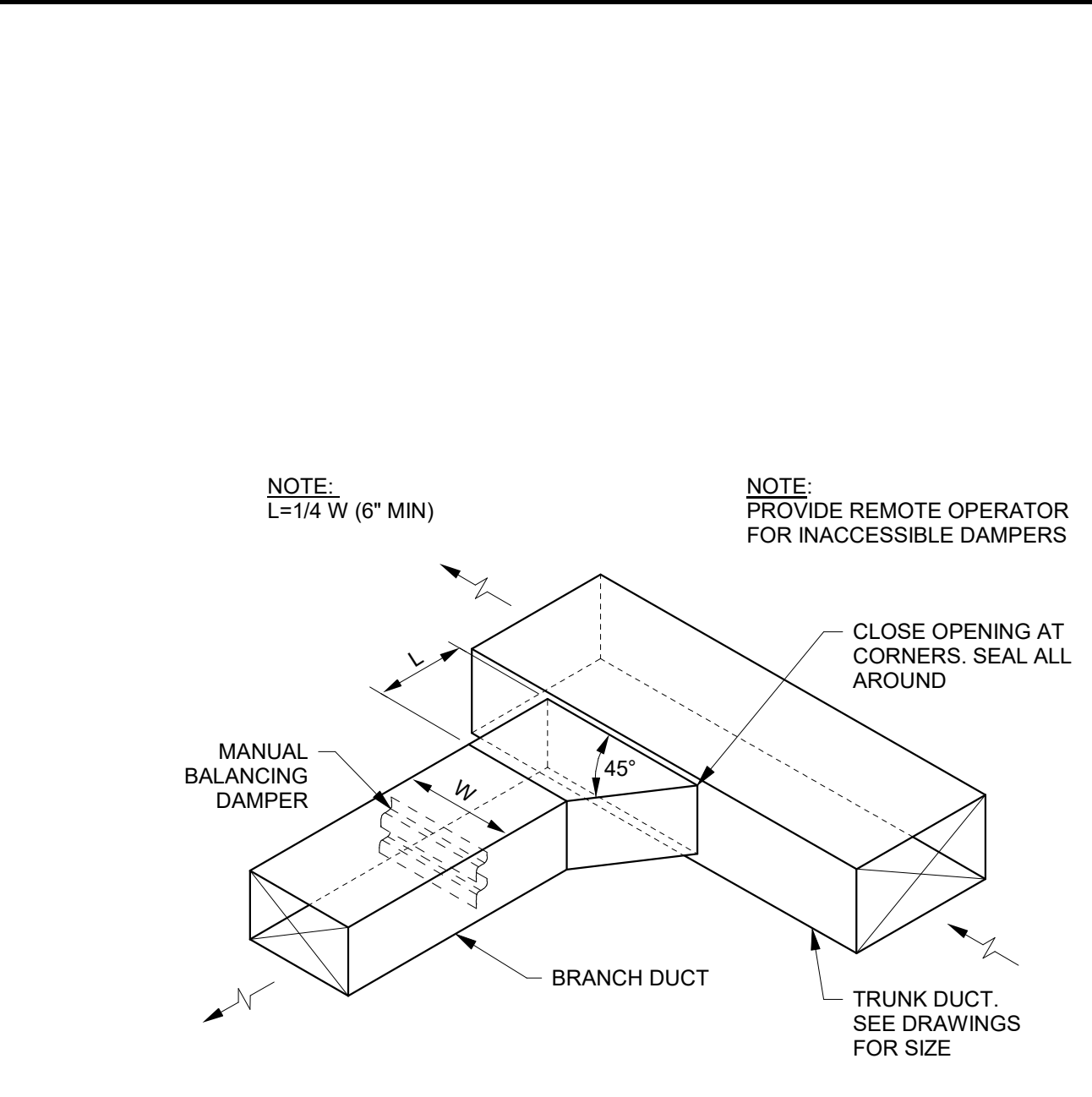
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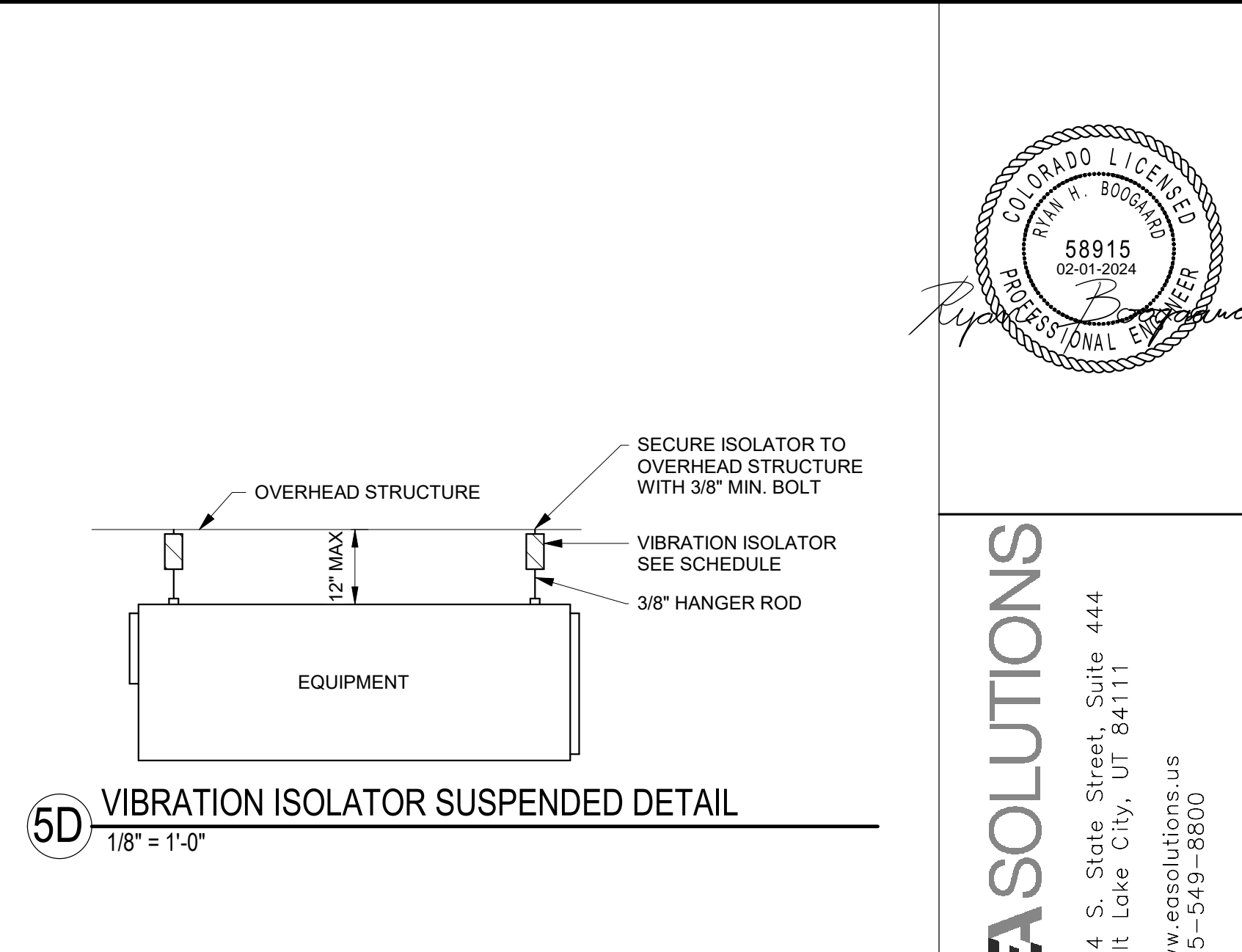
1D CONDENSATE TRAP DETAIL
1/8" = 1'-0"



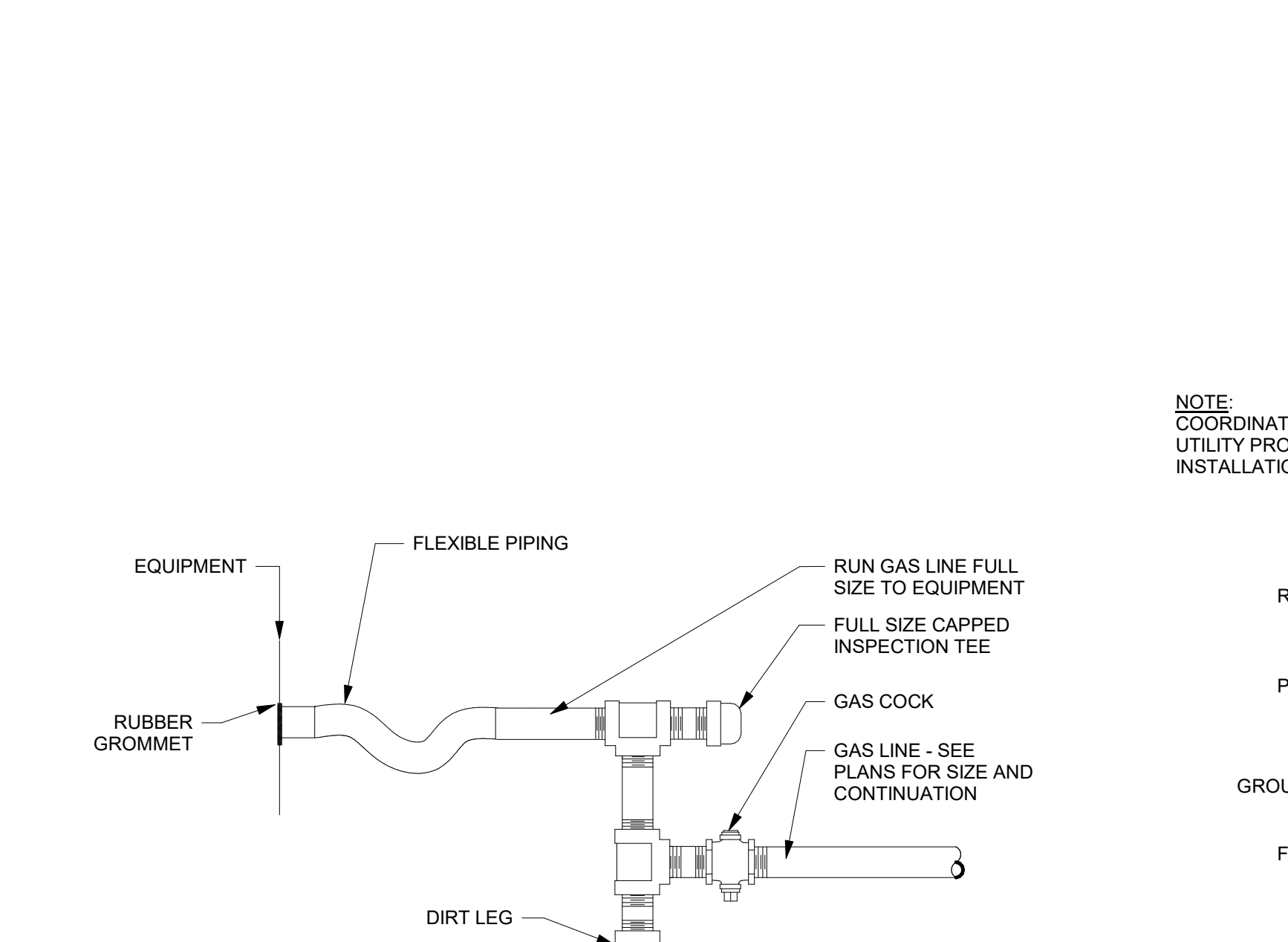
2D TYPICAL ROUND BRANCH DUCT DETAIL
1/8" = 1'-0"



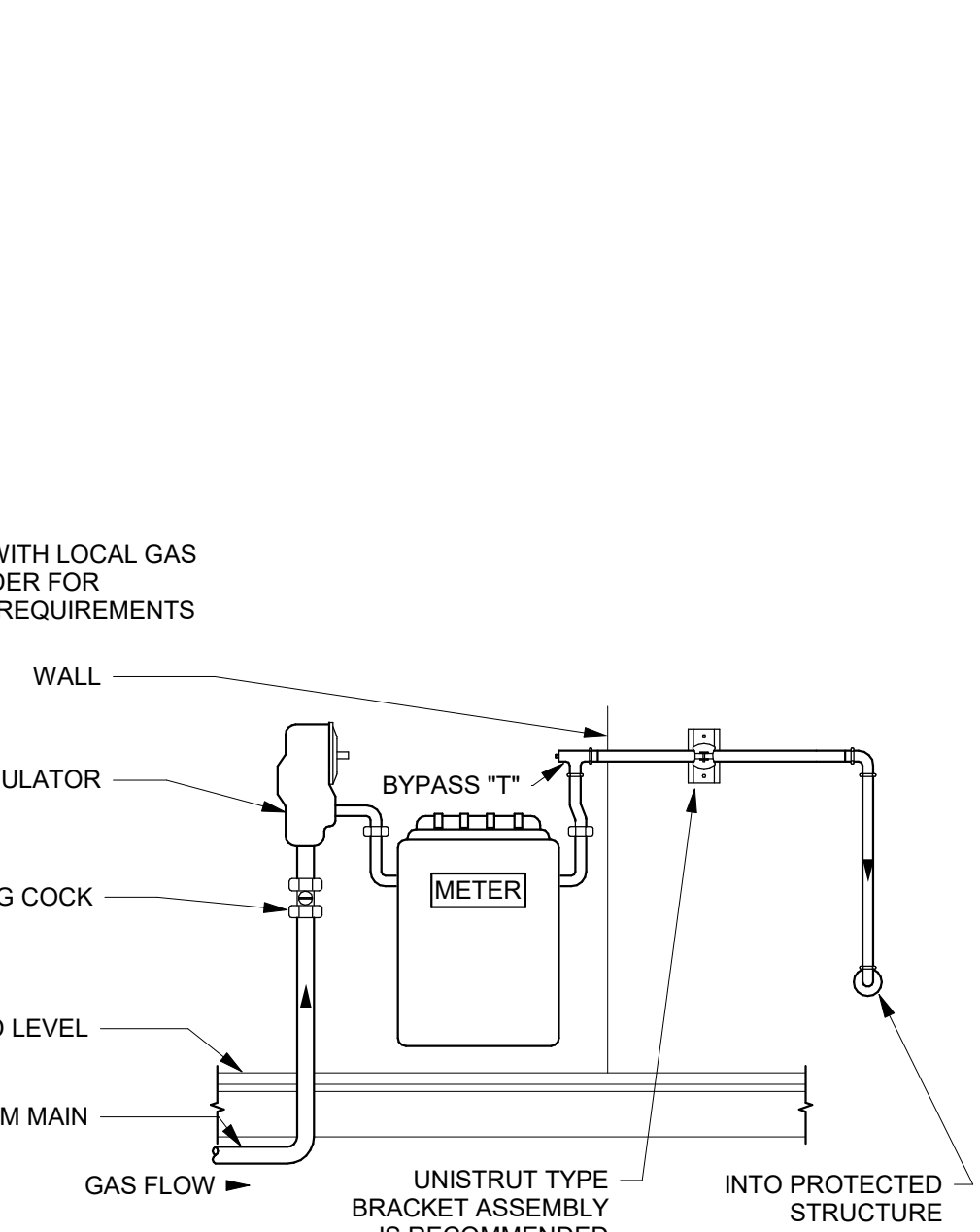
4D BRANCH DUCT TAKE-OFF
1/8" = 1'-0"



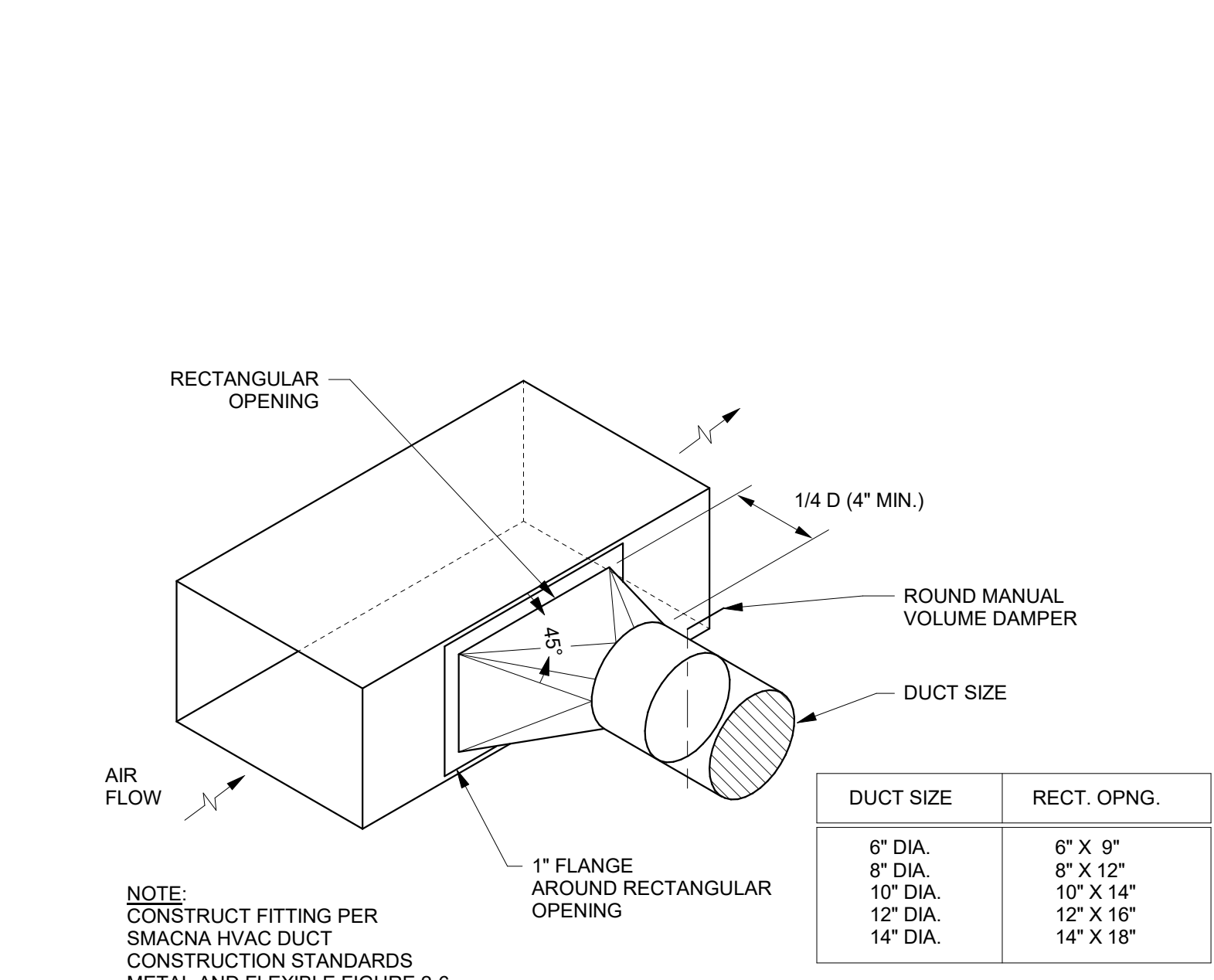
5D VIBRATION ISOLATOR SUSPENDED DETAIL
1/8" = 1'-0"



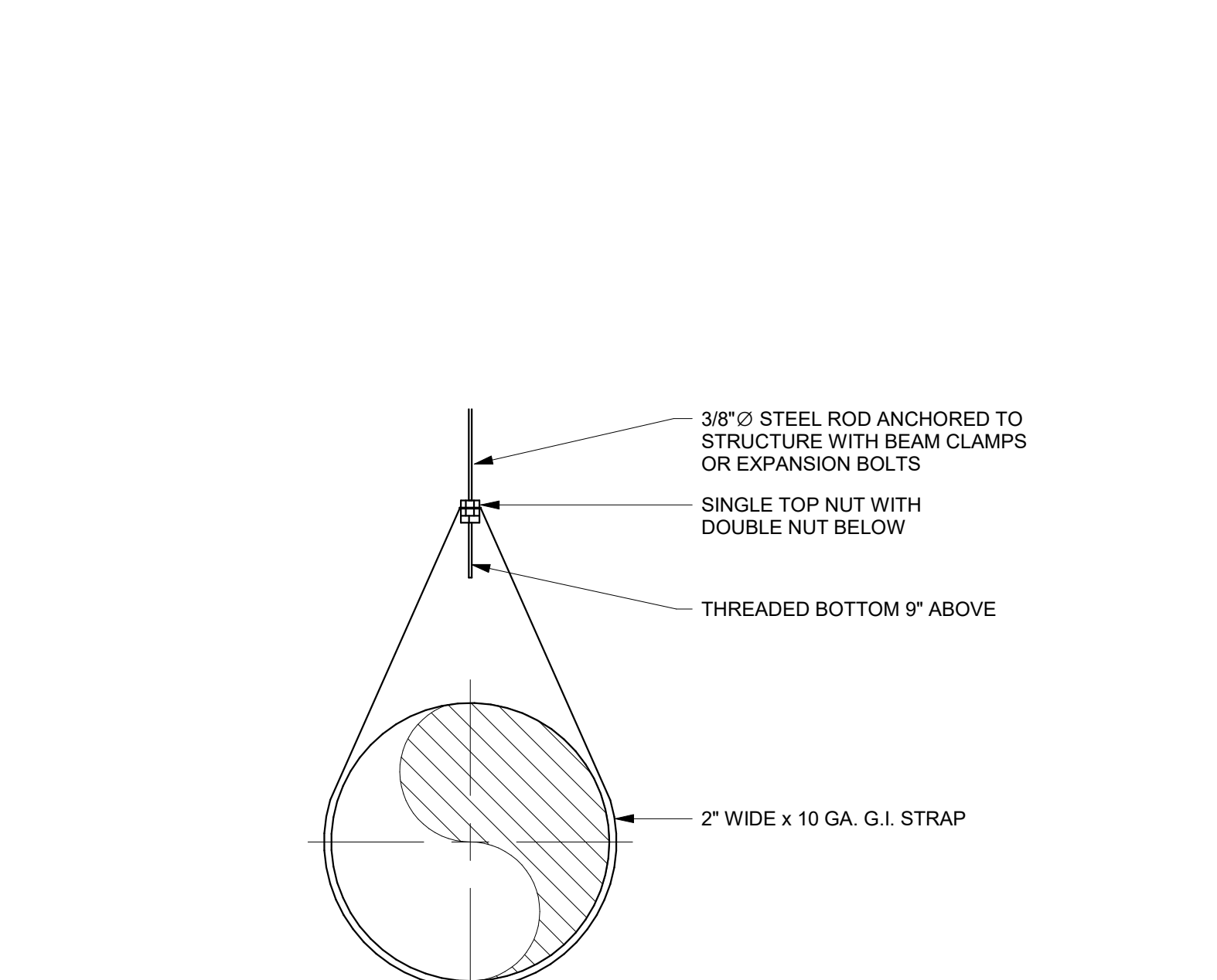
1C GAS PIPE DETAIL
1/8" = 1'-0"



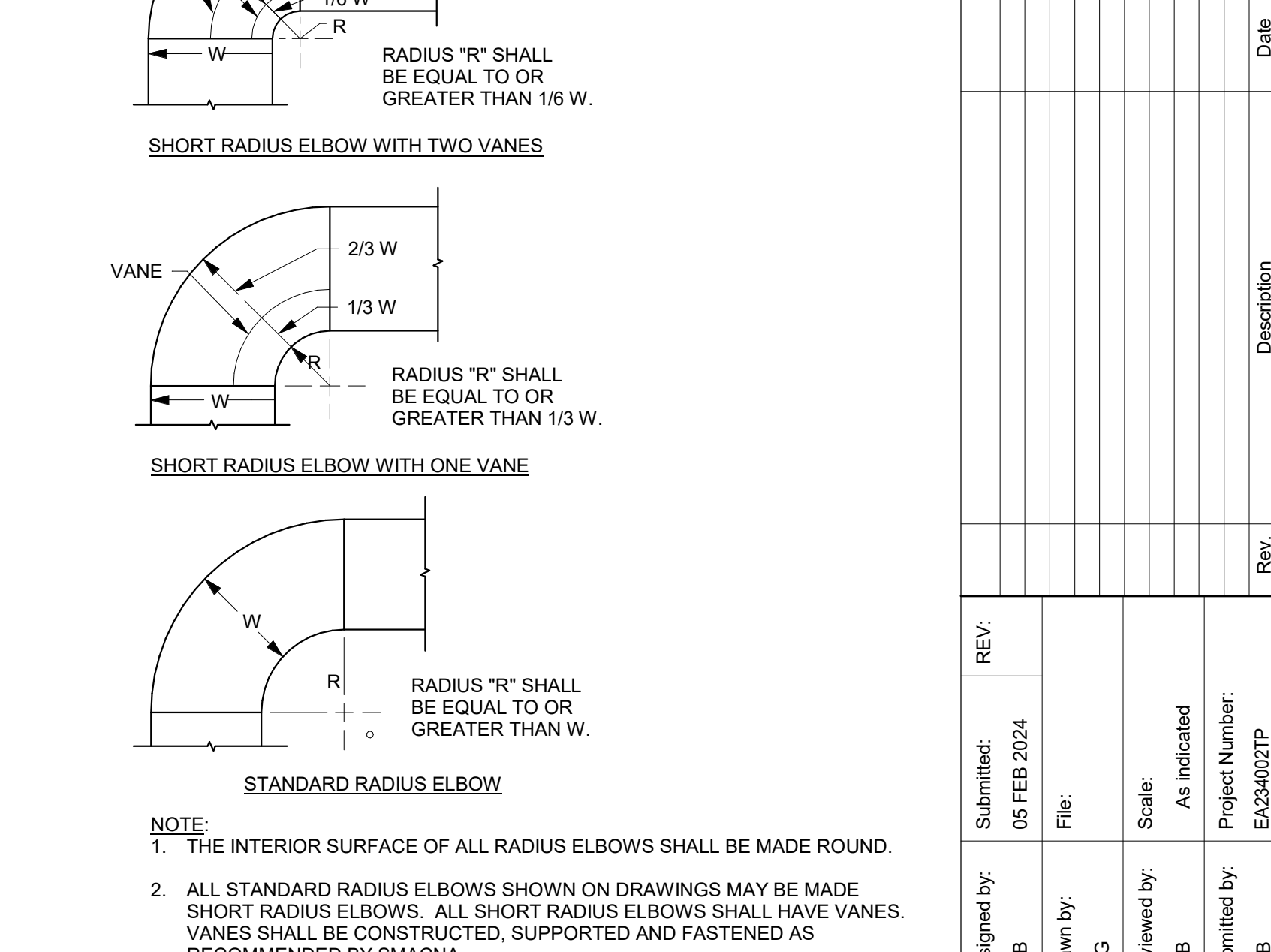
2C GAS METER DETAIL
1/8" = 1'-0"



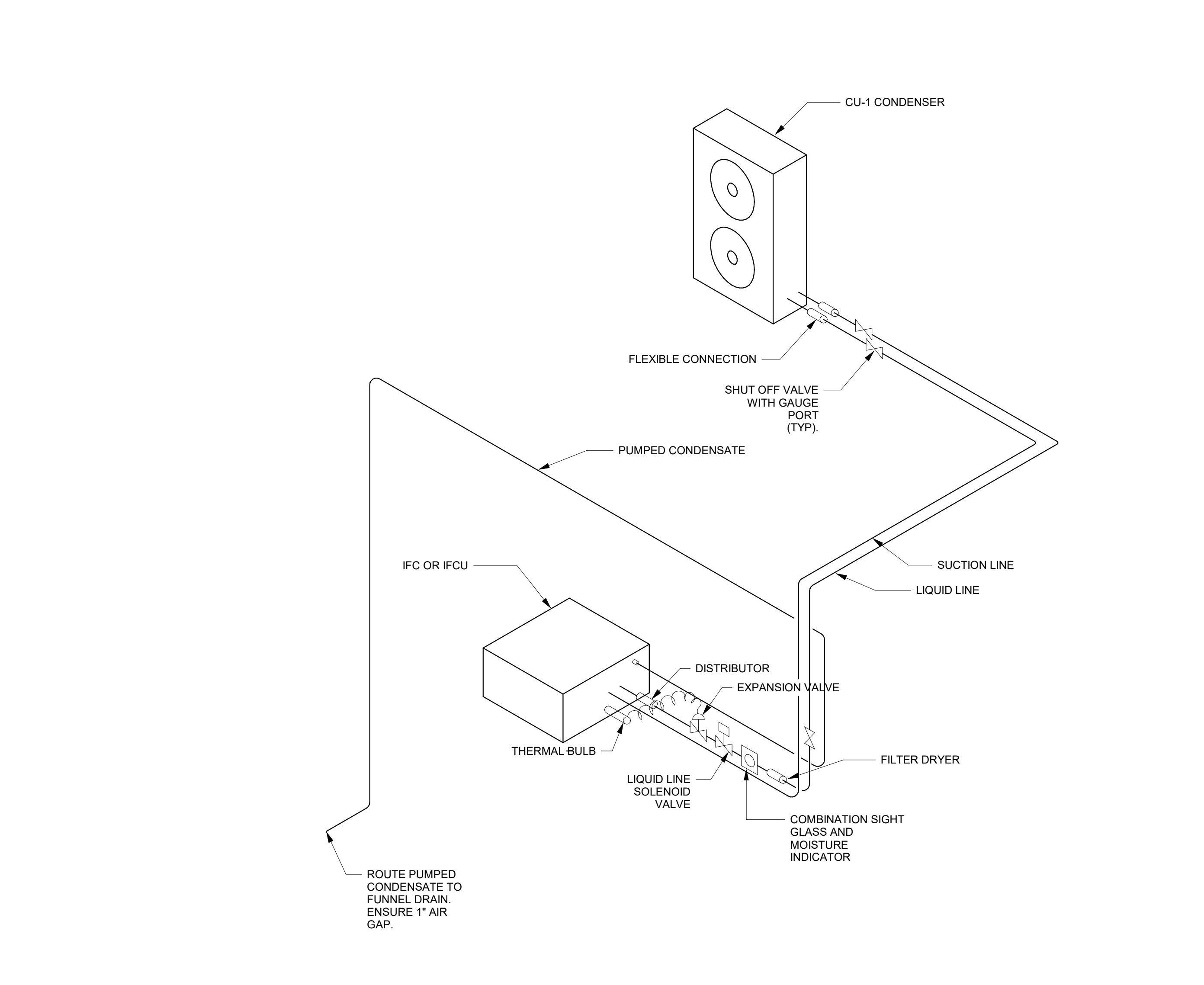
3C DUCT HIGH EFFICIENCY TAKE-OFF
1/8" = 1'-0"



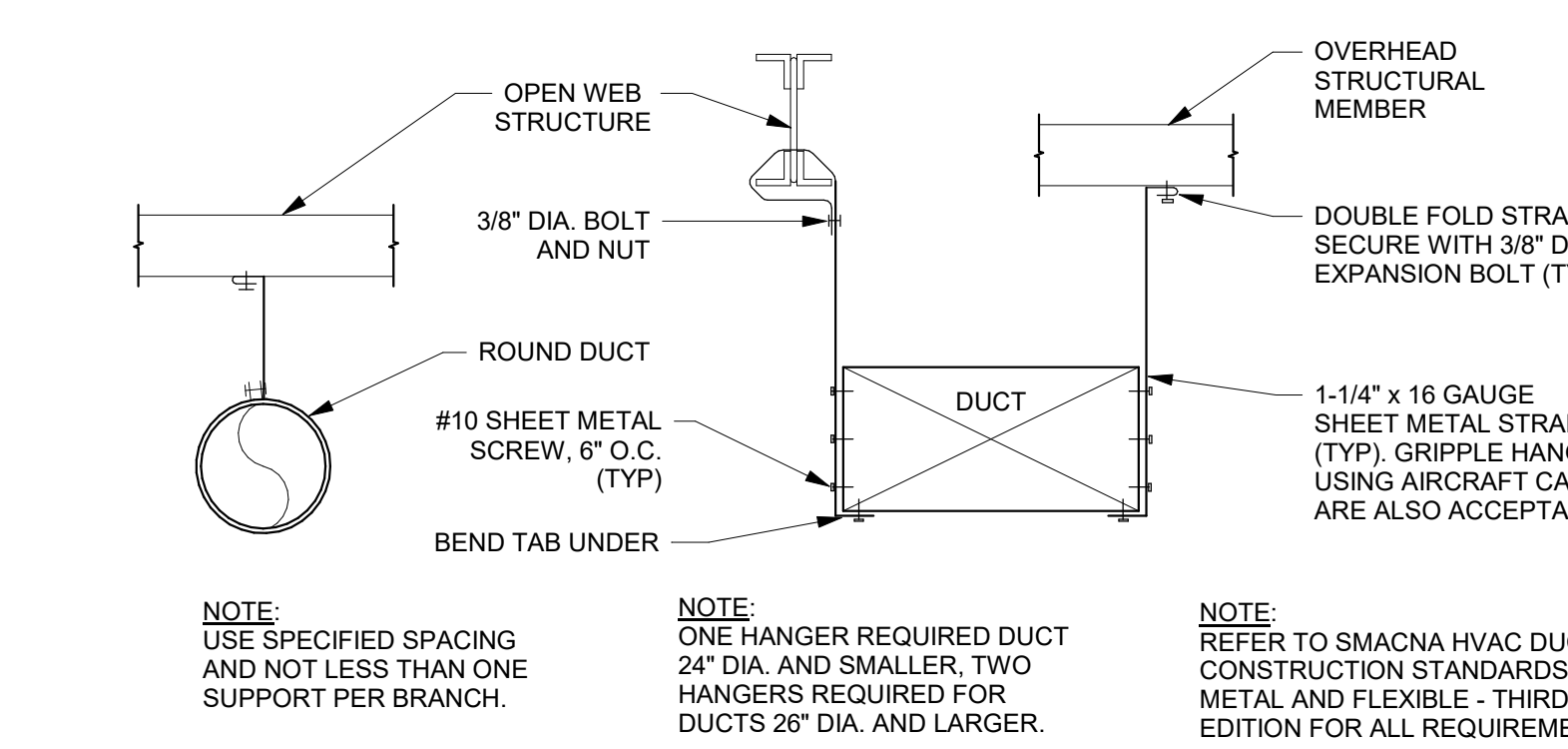
4C DUCT HANGER DETAIL - ROUND
1/8" = 1'-0"



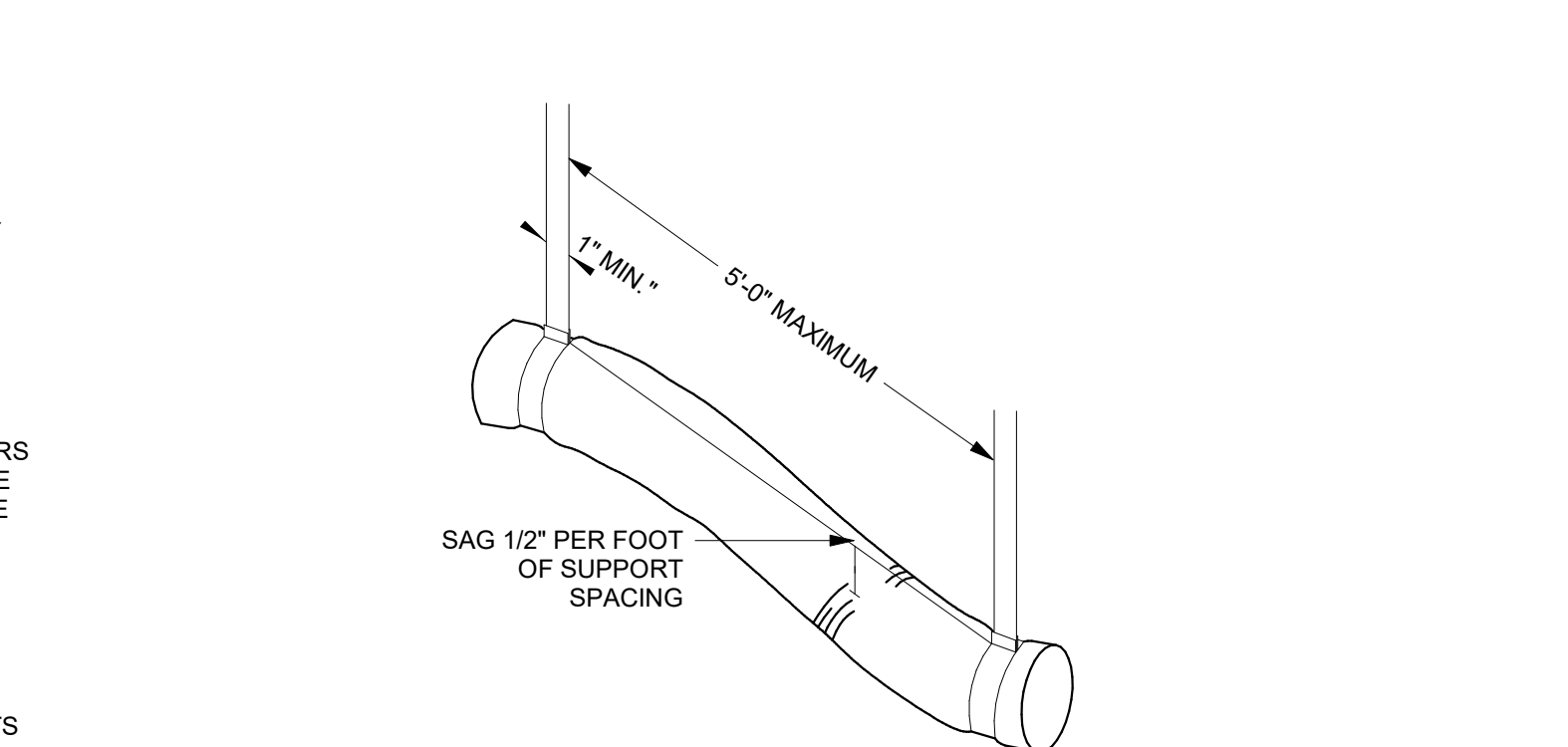
5C DUCT ELBOWS - ROUND DETAIL
1/8" = 1'-0"



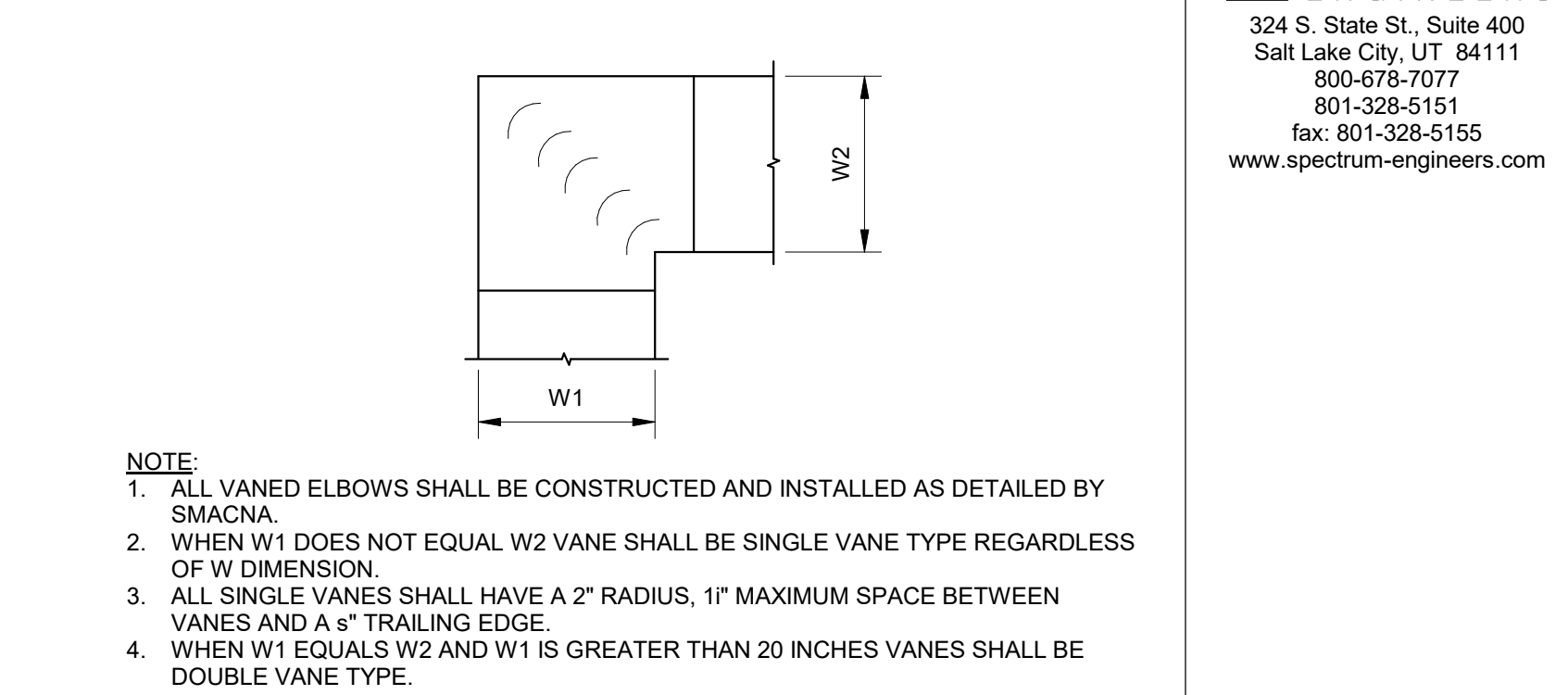
1A SPLIT SYSTEM SCHEMATIC
1/8" = 1'-0"



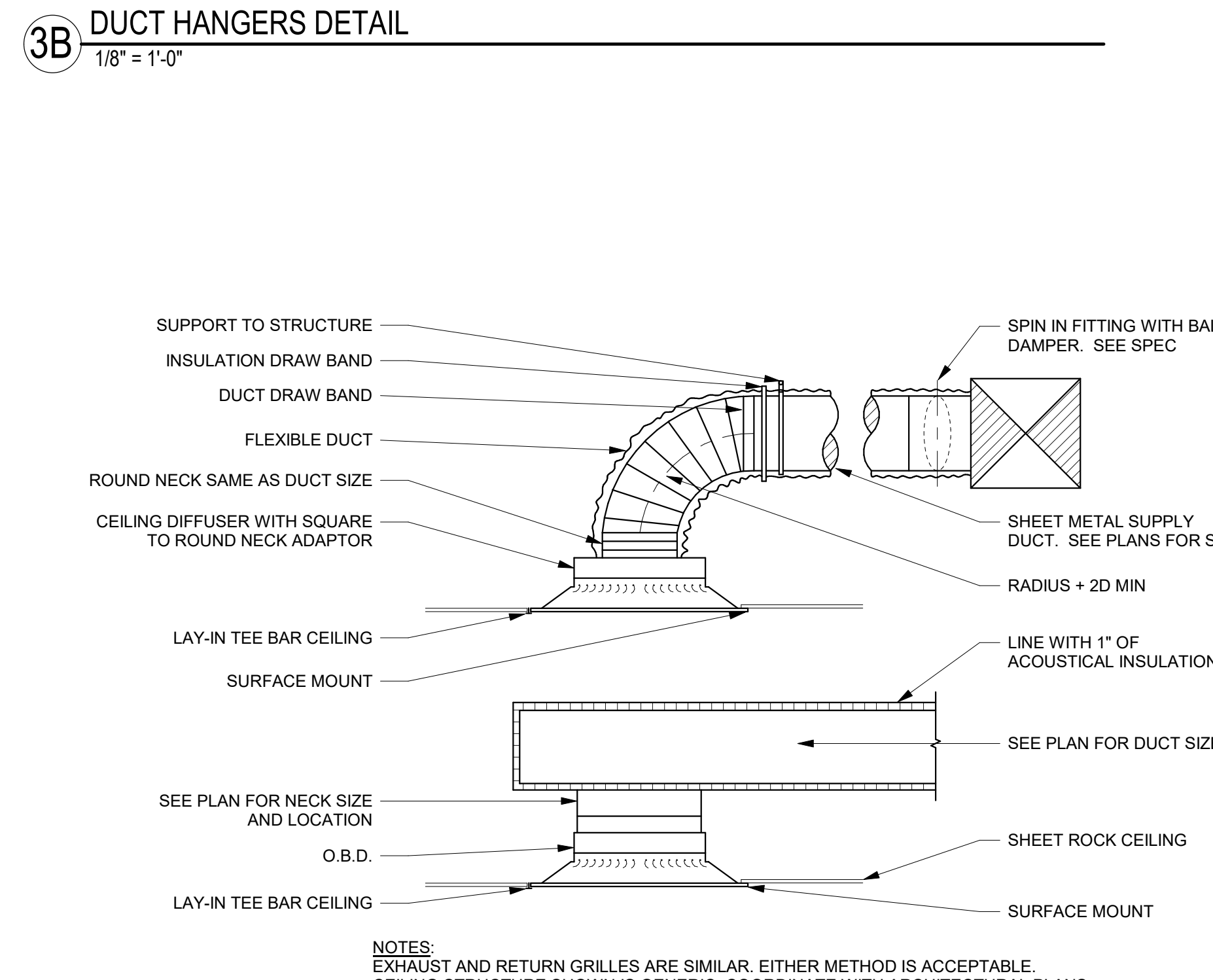
3B DUCT HANGERS DETAIL
1/8" = 1'-0"



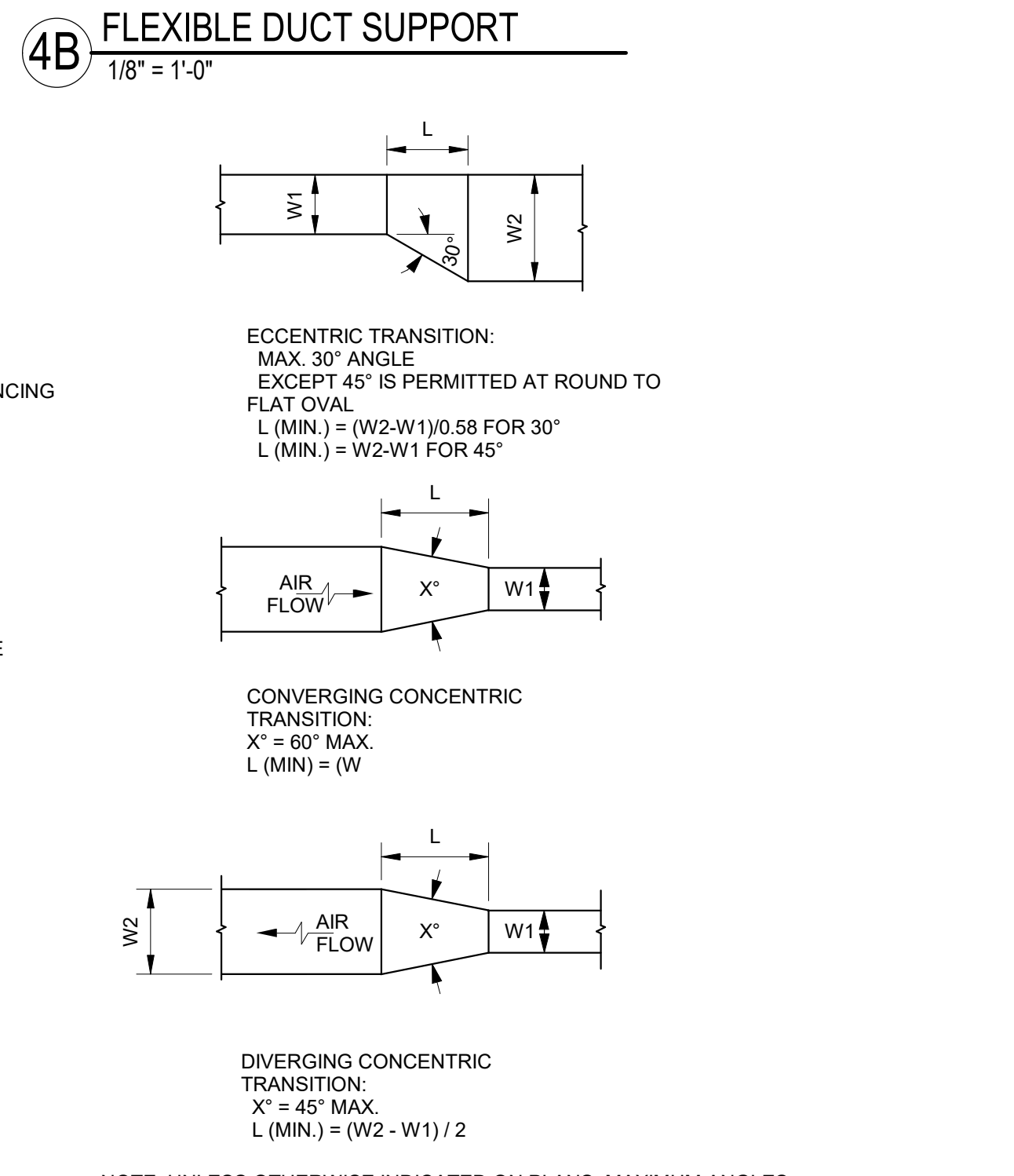
4B FLEXIBLE DUCT SUPPORT
1/8" = 1'-0"



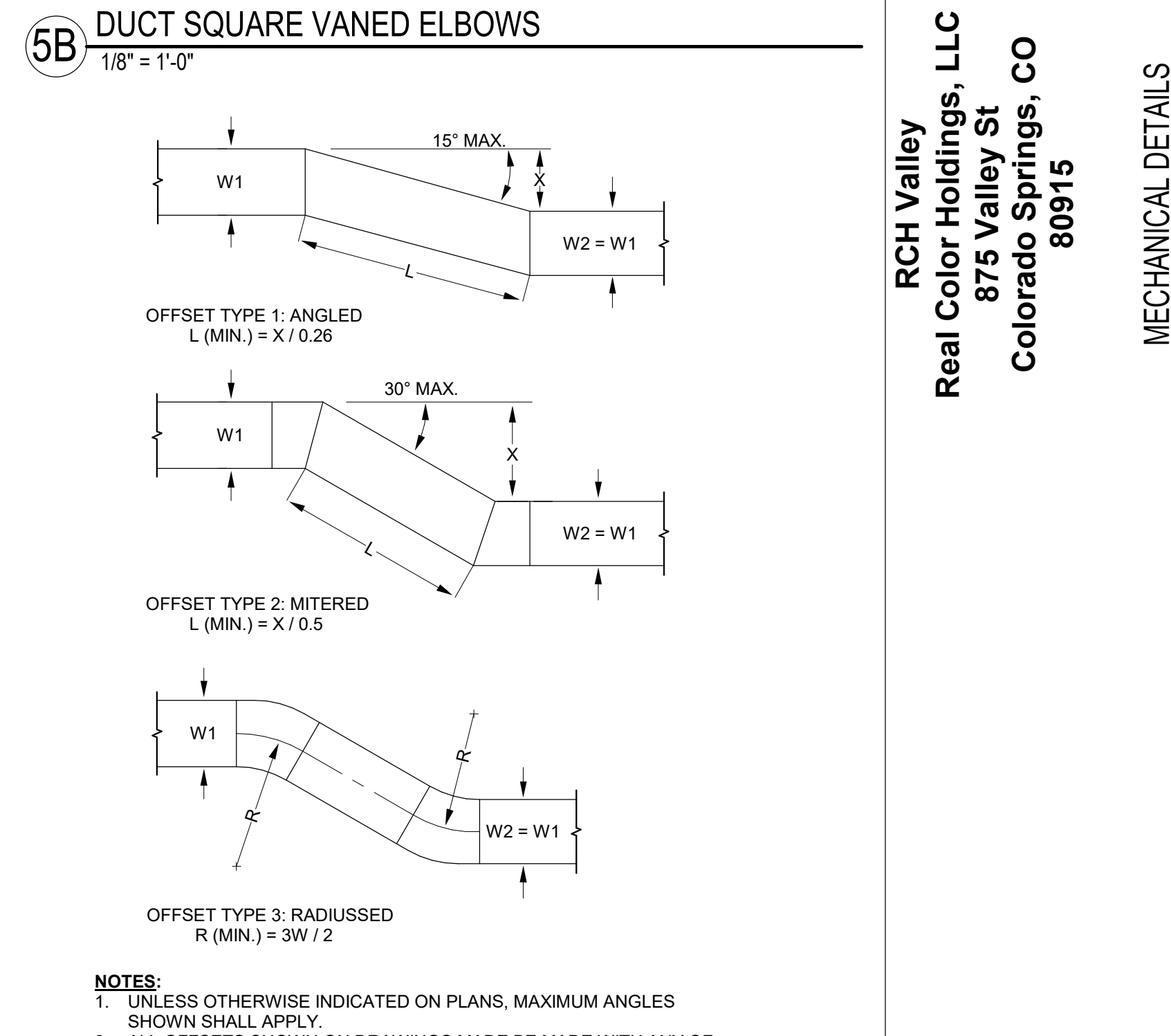
5B DUCT SQUARE VANED ELBOWS
1/8" = 1'-0"



3A CEILING DIFFUSER DETAIL W/ DUCTING
1/8" = 1'-0"



4A DUCT TRANSITIONS DETAIL
1/8" = 1'-0"



5A DUCT OFFSETS DETAIL
1/8" = 1'-0"

Revision table with columns for Rev, Description, Date, and Appr.

Submitted: 06 FEB 2024
Designed by: RHB
Drawn by: LCG
Reviewed by: RHB
Submitted by: RHB
Scale: As indicated
Project Number: E323002P

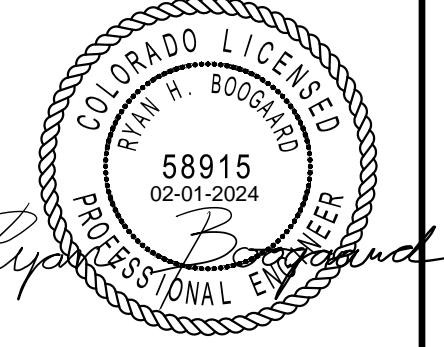
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RCH Valley
Real Color Holdings, LLC
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Colorado Springs, CO
80915

MECHANICAL DETAILS
SHEET NUMBER
ME501

VRF - OUTDOOR UNIT SCHEDULE

Table with 4 columns: ACCEPTABLE MANUFACTURERS, AMBIENT OPERATING CONDITIONS, REMARKS, SCHEDULE KEY. Includes manufacturer details like DAIKIN, TRANE, MITSUBISHI, LG, SAMSUNG and operating conditions for cooling and heating.



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VRF - BRANCH SELECTOR SCHEDULE

Table with columns: LABEL, SERVES, OPERATING CONDITIONS, RATIO, COOLING CAPACITY, HEATING CAPACITY, REFRIGERANT TYPE, MAX. TOTAL REFRIGERANT PIPE LENGTH (FT), NO. OF POWER CONNECTION(S), VOLTS, PHASE, HZ, MCA, MOC, EMERG POWER, DISCONNECT PROVIDED BY (MECH/ELEC), SOUND RATING, WEIGHT (LBS), MANUFACTURER, MODEL, REMARKS.

VRF - INDOOR UNIT SCHEDULE

Table with columns: LABEL, TYPE, SERVES, AIRFLOW (CFM), E.S.P. (IN-WC), MIN OUTSIDE AIR FLOW (CFM), COOLING CAPACITY, HEATING CAPACITY, ELECTRICAL, DISCONNECT PROVIDED BY (MECH/ELEC), SOUND RATING, WEIGHT (LBS), MANUFACTURER, MODEL, REMARKS.

UNIT HEATER SCHEDULE (ELECTRIC)

Table with columns: LABEL, TYPE, ARRANGEMENT, CFM, HEATING CAP. (KW), WEIGHT, VOLTAGE, PHASE, HZ, EMERGENCY POWER, DISCONNECT FURN BY ELEC, FURN BY MECH, MANUFACTURER, MODEL, REMARKS.

FURNACE SCHEDULE (GAS FIRED)

Table with columns: LABEL, TYPE, SERVES, INPUT (BTUH), OUTPUT (BTUH), AFUE, TOTAL CAPACITY (BTUH), SENSIBLE (BTUH), AIRFLOW (CFM), OUTSIDE AIR (CFM), E.S.P., VOLTS, PHASE, HZ, MOC, P, FLA, WEIGHT (LBS), MANUFACTURER, MODEL, REMARKS.

REGISTER - GRILLE- DIFFUSER SCHEDULE

Table with columns: LABEL, TYPE, MAX AIR FLOW (CFM), FACE SIZE, NECK SIZE, BLOW PATTERN, PD (IN-WG), THROW(S) (FT), MAX NC, MANUFACTURER, MODEL, REMARKS.

DUCTLESS SPLIT SYSTEM INDOOR UNIT

Table with columns: LABEL, TYPE, SERVES, CFM, TOTAL COOLING CAPACITY (BTUH), ELECTRICAL, DISCONNECT PROVIDED BY (MECH/ELEC), SOUND LEVEL, WEIGHT (LBS), MANUFACTURER, MODEL, REMARKS.

CONDENSING UNIT SCHEDULE

Table with columns: LABEL, SERVES, OPERATING CONDITIONS, NOMINAL COOLING (BTUH), EER, REFRIGERANT TYPE, MAX. TOTAL REFRIGERANT PIPE LENGTH (FT), VOLTS, PHASE, HZ, MCA, MOC, BASE PAN HEATER (Y/N), EMERG POWER, DISCONNECT PROVIDED BY (MECH/ELEC), SOUND RATING, WEIGHT (LBS), MANUFACTURER, MODEL, REMARKS.

LOUVER SCHEDULE

Table with columns: LABEL, TYPE, SERVES, AIRFLOW (CFM), PD (IN-WG), NOMINAL SIZE, FREE AREA (SQ FT), MAX AIR VELOCITY (FPM), START OF WATER PENETRATION (FPM), SCREEN TYPE, MANUFACTURER, MODEL, REMARKS.

EXHAUST FAN SCHEDULE

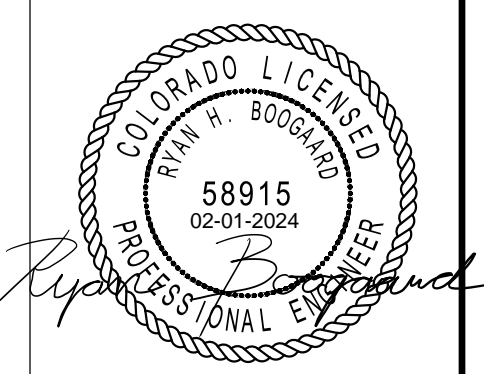
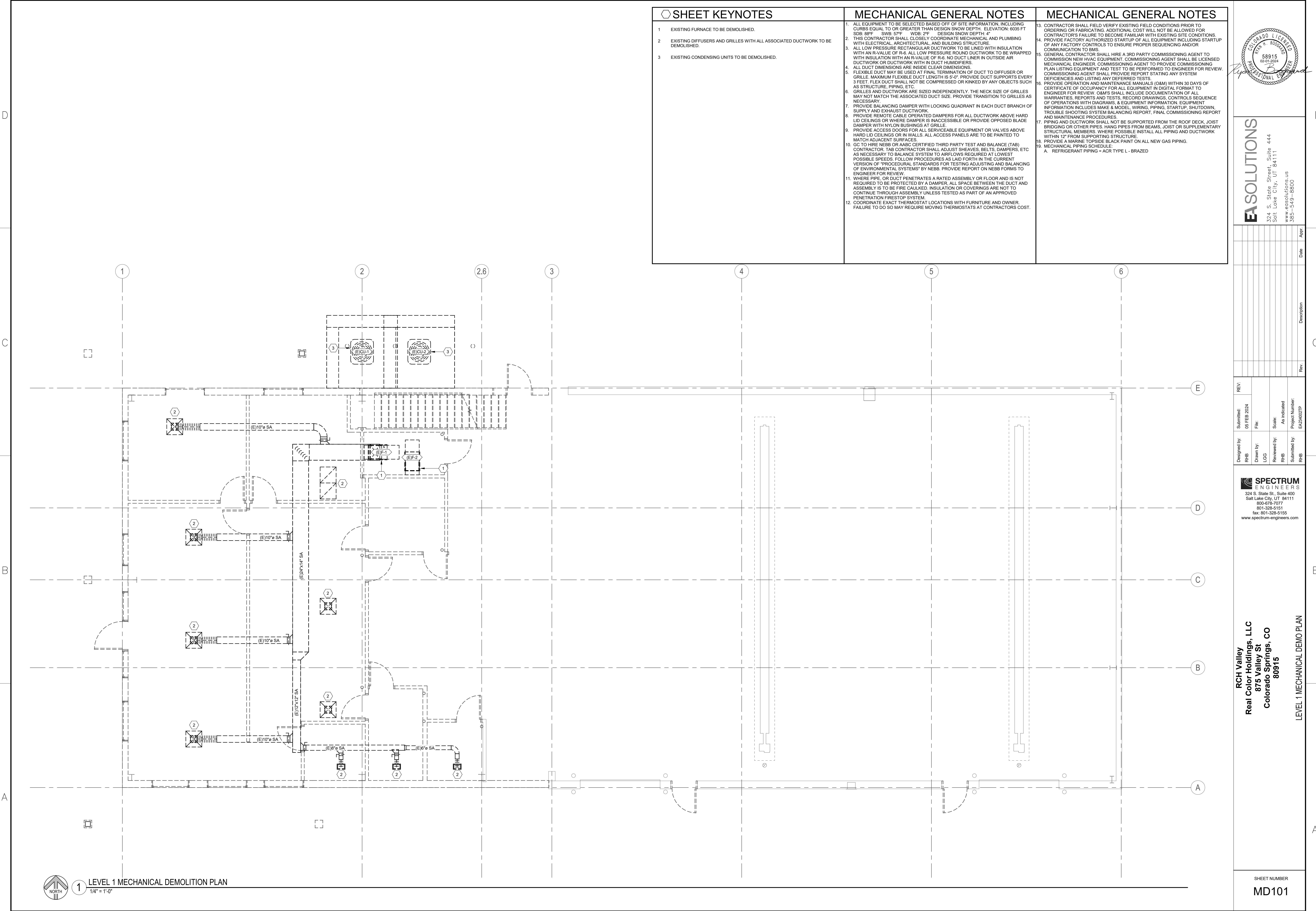
Table with columns: LABEL, SERVES, TYPE, CFM, E.S.P. (IN-WC), FAN RPM, VOLTS, PHASE, HZ, W, FLA, EMERG POWER, DISCONNECT PROVIDED BY (MECH/ELEC), CONTROL METHOD, SOUND RATING, WEIGHT (LBS), MANUFACTURER, MODEL, REMARKS.

Revision table with columns: REV, Description, Date, Rev.



RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915
MECHANICAL SCHEDULES

SHEET KEYNOTES	MECHANICAL GENERAL NOTES	MECHANICAL GENERAL NOTES
<ol style="list-style-type: none"> EXISTING FURNACE TO BE DEMOLISHED. EXISTING DIFFUSERS AND GRILLES WITH ALL ASSOCIATED DUCTWORK TO BE DEMOLISHED. EXISTING CONDENSING UNITS TO BE DEMOLISHED. 	<ol style="list-style-type: none"> ALL EQUIPMENT TO BE SELECTED BASED OFF OF SITE INFORMATION, INCLUDING CURBS EQUAL TO OR GREATER THAN DESIGN SNOW DEPTH. ELEVATION: 6035 FT SDB: 80F SWB: 57F WDB: 27F DESIGN SNOW DEPTH: 4" THIS CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE. ALL LOW PRESSURE RECTANGULAR DUCTWORK TO BE LINED WITH INSULATION WITH AN R-VALUE OF R-6. ALL LOW PRESSURE ROUND DUCTWORK TO BE WRAPPED WITH INSULATION WITH AN R-VALUE OF R-6. NO DUCT LINER IN OUTSIDE AIR DUCTWORK OR DUCTWORK WITH IN DUCT HUMIDIFIERS. ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS. FLEXIBLE DUCT MAY BE USED AT FINAL TERMINATION OF DUCT TO DIFFUSER OR GRILLE. MAXIMUM FLEXIBLE DUCT LENGTH IS 5'-0". PROVIDE DUCT SUPPORTS EVERY 3 FEET. FLEX DUCT SHALL NOT BE COMPRESSED OR KINKED BY ANY OBJECTS SUCH AS STRUCTURE, PIPING, ETC. GRILLES AND DUCTWORK ARE SIZED INDEPENDENTLY. THE NECK SIZE OF GRILLES MAY NOT MATCH THE ASSOCIATED DUCT SIZE. PROVIDE TRANSITION TO GRILLES AS NECESSARY. PROVIDE BALANCING DAMPER WITH LOCKING QUADRANT IN EACH DUCT BRANCH OF SUPPLY AND EXHAUST DUCTWORK. PROVIDE REMOTE CABLE OPERATED DAMPERS FOR ALL DUCTWORK ABOVE HARD LID CEILINGS OR WHERE DAMPER IS INACCESSIBLE OR PROVIDE OPPOSED BLADE DAMPER WITH NYLON BUSHINGS AT GRILLE. PROVIDE ACCESS DOORS FOR ALL SERVICEABLE EQUIPMENT OR VALVES ABOVE HARD LID CEILINGS OR IN WALLS. ALL ACCESS PANELS ARE TO BE PAINTED TO MATCH ADJACENT SURFACES. GC TO HIRE NEBB OR AABC CERTIFIED THIRD PARTY TEST AND BALANCE (TAB) CONTRACTOR. TAB CONTRACTOR SHALL ADJUST SHEAVES, BELTS, DAMPERS, ETC AS NECESSARY TO BALANCE SYSTEM TO AIRFLOWS REQUIRED AT LOWEST POSSIBLE SPEEDS. FOLLOW PROCEDURES AS LAID FORTH IN THE CURRENT VERSION OF "PROCEDURAL STANDARDS FOR TESTING ADJUSTING AND BALANCING OF ENVIRONMENTAL SYSTEMS" BY NEBB. PROVIDE REPORT ON NEBB FORMS TO ENGINEER FOR REVIEW. WHERE PIPE OR DUCT PENETRATES A RATED ASSEMBLY OR FLOOR AND IS NOT REQUIRED TO BE PROTECTED BY A DAMPER, ALL SPACE BETWEEN THE DUCT AND ASSEMBLY IS TO BE FIRE CAULKED. INSULATION OR COVERINGS ARE NOT TO CONTINUE THROUGH ASSEMBLY UNLESS TESTED AS PART OF AN APPROVED PENETRATION FIRESTOP SYSTEM. COORDINATE EXACT THERMOSTAT LOCATIONS WITH FURNITURE AND OWNER. FAILURE TO DO SO MAY REQUIRE MOVING THERMOSTATS AT CONTRACTORS COST. 	<ol style="list-style-type: none"> CONTRACTOR SHALL FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS. PROVIDE FACTORY AUTHORIZED STARTUP OF ALL EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING AND/OR COMMUNICATION TO BMS. GENERAL CONTRACTOR SHALL HIRE A 3RD PARTY COMMISSIONING AGENT TO COMMISSION NEW HVAC EQUIPMENT. COMMISSIONING AGENT SHALL BE LICENSED MECHANICAL ENGINEER. COMMISSIONING AGENT TO PROVIDE COMMISSIONING PLAN LISTING EQUIPMENT AND TEST TO BE PERFORMED TO ENGINEER FOR REVIEW. COMMISSIONING AGENT SHALL PROVIDE REPORT STATING ANY SYSTEM DEFICIENCIES AND LISTING ANY DEFERRED TESTS. PROVIDE OPERATION AND MAINTENANCE MANUALS (O&M) WITHIN 30 DAYS OF CERTIFICATE OF OCCUPANCY FOR ALL EQUIPMENT IN DIGITAL FORMAT TO ENGINEER FOR REVIEW. O&M'S SHALL INCLUDE DOCUMENTATION OF ALL WARRANTIES, REPORTS AND TESTS. RECORD DRAWINGS, CONTROLS SEQUENCE OF OPERATIONS WITH DIAGRAMS, & EQUIPMENT INFORMATION. EQUIPMENT INFORMATION INCLUDES MAKE & MODEL, WIRING, PIPING, STARTUP, SHUTDOWN, TROUBLE SHOOTING SYSTEM BALANCING REPORT, FINAL COMMISSIONING REPORT AND MAINTENANCE PROCEDURES. PIPING AND DUCTWORK SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING AND DUCTWORK WITHIN 12" FROM SUPPORTING STRUCTURE. PROVIDE A MARINE TOPSIDE BLACK PAINT ON ALL NEW GAS PIPING. <p>MECHANICAL PIPING SCHEDULE: A. REFRIGERANT PIPING = ACR TYPE L - BRAZED</p>



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REV.	Description	Date	Appr.

Designed by: RHB	Submitted: 06 FEB 2024
Drawn by: LGG	File:
Reviewed by: RHB	Scale: As indicated
Submitted by: RHB	Project Number: EJ230027P

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RCH Valley
 Real Color Holdings, LLC
 875 Valley St
 Colorado Springs, CO
 80915

LEVEL 1 MECHANICAL DEMO PLAN

SHEET NUMBER
MD101

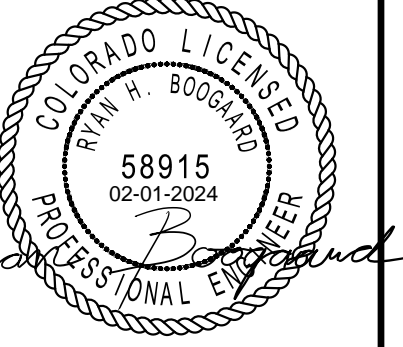
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SHEET KEYNOTES

MECHANICAL GENERAL NOTES

MECHANICAL GENERAL NOTES

1. ALL EQUIPMENT TO BE SELECTED BASED OFF OF SITE INFORMATION, INCLUDING CURBS EQUAL TO OR GREATER THAN DESIGN SNOW DEPTH. ELEVATION: 6035 FT SDB: 80F SWB: 67F WDB: 27F DESIGN SNOW DEPTH: 4'
2. THIS CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE.
3. ALL LOW PRESSURE RECTANGULAR DUCTWORK TO BE LINED WITH INSULATION WITH AN R-VALUE OF R-6. ALL LOW PRESSURE ROUND DUCTWORK TO BE WRAPPED WITH INSULATION WITH AN R-VALUE OF R-6. NO DUCT LINER IN OUTSIDE AIR DUCTWORK OR DUCTWORK WITH IN DUCT HUMIDIFIERS.
4. ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
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9. PROVIDE ACCESS DOORS FOR ALL SERVICEABLE EQUIPMENT OR VALVES ABOVE HARD LID CEILINGS OR IN WALLS. ALL ACCESS PANELS ARE TO BE PAINTED TO MATCH ADJACENT SURFACES.
10. GC TO HIRE NEBB OR AABC CERTIFIED THIRD PARTY TEST AND BALANCE (TAB) CONTRACTOR. TAB CONTRACTOR SHALL ADJUST SHEAVES, BELTS, DAMPERS, ETC AS NECESSARY TO BALANCE SYSTEM TO AIRFLOWS REQUIRED AT LOWEST POSSIBLE SPEEDS. FOLLOW PROCEDURES AS LAID FORTH IN THE CURRENT VERSION OF "PROCEDURAL STANDARDS FOR TESTING ADJUSTING AND BALANCING OF ENVIRONMENTAL SYSTEMS" BY NEBB. PROVIDE REPORT ON NEBB FORMS TO ENGINEER FOR REVIEW.
11. WHERE PIPE, OR DUCT PENETRATES A RATED ASSEMBLY OR FLOOR AND IS NOT REQUIRED TO BE PROTECTED BY A DAMPER, ALL SPACE BETWEEN THE DUCT AND ASSEMBLY IS TO BE FIRE CALKED. INSULATION OR COVERINGS ARE NOT TO CONTINUE THROUGH ASSEMBLY UNLESS TESTED AS PART OF AN APPROVED PENETRATION FIRESTOP SYSTEM.
12. COORDINATE EXACT THERMOSTAT LOCATIONS WITH FURNITURE AND OWNER. FAILURE TO DO SO MAY REQUIRE MOVING THERMOSTATS AT CONTRACTORS COST.

13. CONTRACTOR SHALL FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTORS FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS. PROVIDE FACTORY AUTHORIZED STARTUP OF ALL EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING AND/OR COMMUNICATION TO BMS.
14. GENERAL CONTRACTOR SHALL HIRE A 3RD PARTY COMMISSIONING AGENT TO COMMISSION NEW HVAC EQUIPMENT. COMMISSIONING AGENT SHALL BE LICENSED MECHANICAL ENGINEER. COMMISSIONING AGENT TO PROVIDE COMMISSIONING PLAN LISTING EQUIPMENT AND TEST TO BE PERFORMED TO ENGINEER FOR REVIEW. COMMISSIONING AGENT SHALL PROVIDE REPORT STATING ANY SYSTEM DEFICIENCIES AND LISTING ANY DEFERRED TESTS.
15. PROVIDE OPERATION AND MAINTENANCE MANUALS (O&M) WITHIN 30 DAYS OF CERTIFICATE OF OCCUPANCY FOR ALL EQUIPMENT IN DIGITAL FORMAT TO ENGINEER FOR REVIEW. O&M'S SHALL INCLUDE DOCUMENTATION OF ALL WARRANTIES, REPORTS AND TESTS. RECORD DRAWINGS, CONTROLS SEQUENCE OF OPERATIONS WITH DIAGRAMS, & EQUIPMENT INFORMATION. EQUIPMENT INFORMATION INCLUDES MAKE & MODEL, WIRING, PIPING, STARTUP, SHUTDOWN, TROUBLE SHOOTING SYSTEM BALANCING REPORT, FINAL COMMISSIONING REPORT AND MAINTENANCE PROCEDURES.
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17. PROVIDE A MARINE TOPSIDE BLACK PAINT ON ALL NEW GAS PIPING.
18. MECHANICAL PIPING SCHEDULE:
A. REFRIGERANT PIPING = ACR TYPE L - BRAZED

19. MECHANICAL PIPING SCHEDULE:
A. REFRIGERANT PIPING = ACR TYPE L - BRAZED

D

D

C

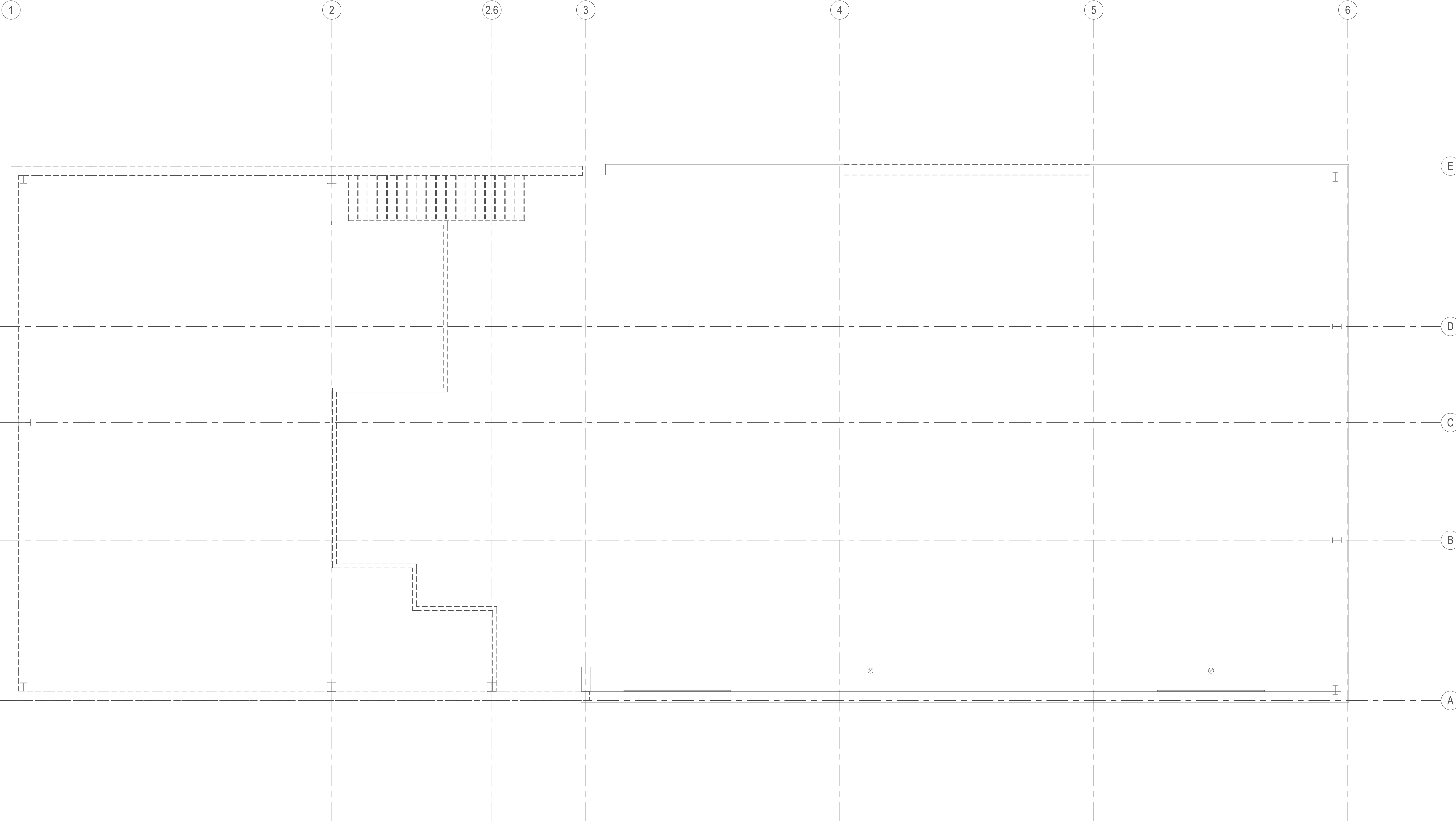
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B

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A

A



REV:	Submitted by:	Drawn by:	Reviewed by:	Submitted by:
	RHB	LCG	RHB	RHB

Submitted: 06 FEB 2024	File:	Scale: As indicated	Project Number: E230027P
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RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

LEVEL 2 MECHANICAL DEMO PLAN

SHEET NUMBER
MD102

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

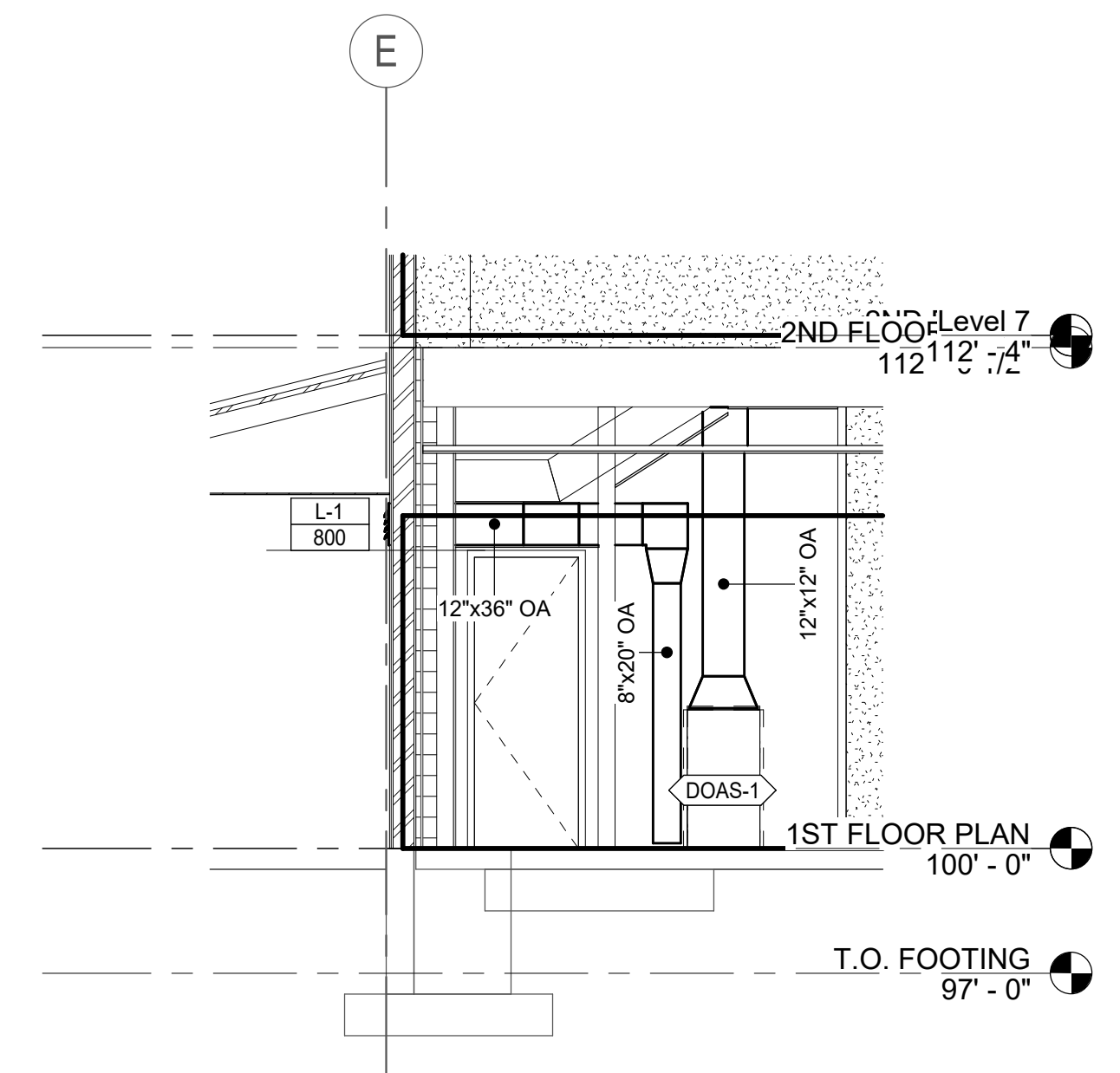
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2 LOUVER IN EXTERIOR WALL
1/4" = 1'-0"

SHEET KEYNOTES

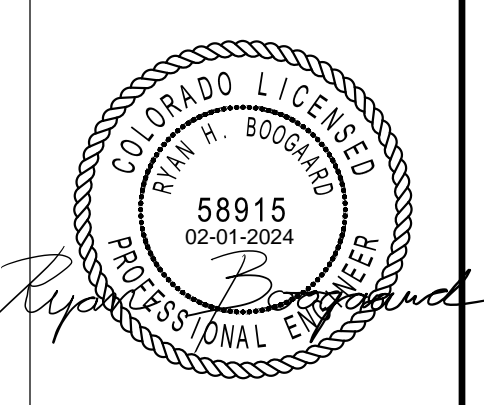
- 1 DUCT RISE UP TO RUN BELOW ROOF STRUCTURE.
- 2 DUCT RISE UP TO LEVEL 2 IN THIS APPROXIMATE LOCATION.
- 3 DUCT RISE UP / DROP DOWN IN THIS APPROXIMATE LOCATION.
- 4 EXISTING HEATERS TO REMAIN IN THE WAREHOUSE/SHOP.
- 5 EXISTING SUPPLY WALL FAN TO REMAIN IN THIS APPROXIMATE LOCATION.
- 6 EXISTING LOUVER TO REMAIN IN THIS APPROXIMATE LOCATION.
- 7 EXISTING 8 VENT TO REMAIN IN THIS APPROXIMATE LOCATION.
- 8 PROVIDE AND INSTALL FIRE DAMPER AT THE HORIZONTAL RATED ASSEMBLY PENETRATION IN THIS APPROXIMATE LOCATION.
- 9 PROVIDE AND INSTALL A BALANCING DAMPER IN THIS APPROXIMATE LOCATION.

MECHANICAL GENERAL NOTES

1. ALL EQUIPMENT TO BE SELECTED BASED OFF OF SITE INFORMATION, INCLUDING CURBS EQUAL TO OR GREATER THAN DESIGN SNOW DEPTH. ELEVATION: 6035 FT SDR: 88F SVR: 57F WOB: 2F DESIGN SNOW DEPTH: 4"
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10. GO TO HIRE NEBB OR AMBC CERTIFIED THIRD PARTY TEST AND BALANCE (TAB) CONTRACTOR. TAB CONTRACTOR SHALL ADJUST SHEAVES, BELTS, DAMPERS, ETC AS NECESSARY TO BALANCE SYSTEM TO AIRFLOWS REQUIRED AT LOWEST POSSIBLE SPEEDS. FOLLOW PROCEDURES AS LAID FORTH IN THE CURRENT VERSION OF "PROCEDURAL STANDARDS FOR TESTING ADJUSTING AND BALANCING OF ENVIRONMENTAL SYSTEMS" BY NEBB. PROVIDE REPORT ON NEBB FORMS TO ENGINEER FOR REVIEW.
11. WHERE PIPE OR DUCT PENETRATES A RATED ASSEMBLY OR FLOOR AND IS NOT REQUIRED TO BE PROTECTED BY A DAMPER, ALL SPACE BETWEEN THE DUCT AND ASSEMBLY IS TO BE FIRE CALKED. INSULATION OR COVERINGS ARE NOT TO CONTINUE THROUGH ASSEMBLY UNLESS TESTED AS PART OF AN APPROVED PENETRATION FIRESTOP SYSTEM.
12. COORDINATE EXACT THERMOSTAT LOCATIONS WITH FURNITURE AND OWNER. FAILURE TO DO SO MAY REQUIRE MOVING THERMOSTATS AT CONTRACTORS COST.

MECHANICAL GENERAL NOTES

13. CONTRACTOR SHALL FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
14. PROVIDE FACTORY AUTHORIZED STARTUP OF ALL EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING AND/OR COMMUNICATION TO BMS.
15. GENERAL CONTRACTOR SHALL HIRE A 3RD PARTY COMMISSIONING AGENT TO COMMISSION NEW HVAC EQUIPMENT. COMMISSIONING AGENT SHALL BE LICENSED MECHANICAL ENGINEER. COMMISSIONING AGENT TO PROVIDE COMMISSIONING PLAN LISTING EQUIPMENT AND TEST TO BE PERFORMED TO ENGINEER FOR REVIEW. COMMISSIONING AGENT SHALL PROVIDE REPORT STATING ANY SYSTEM DEFICIENCIES AND LISTING ANY DEFERRED TESTS.
16. PROVIDE OPERATION AND MAINTENANCE MANUALS (O&M) WITHIN 30 DAYS OF CERTIFICATE OF OCCUPANCY FOR ALL EQUIPMENT IN DIGITAL FORMAT TO ENGINEER FOR REVIEW. O&M'S SHALL INCLUDE DOCUMENTATION OF ALL WARRANTIES, REPORTS AND TESTS. RECORD DRAWINGS, CONTROLS SEQUENCE OF OPERATIONS WITH DIAGRAMS, & EQUIPMENT INFORMATION. EQUIPMENT INFORMATION INCLUDES MAKE & MODEL, WIRING, PIPING, STARTUP, SHUTDOWN, TROUBLE SHOOTING SYSTEM BALANCING REPORT, FINAL COMMISSIONING REPORT AND MAINTENANCE PROCEDURES.
17. PIPING AND DUCTWORK SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS WHERE POSSIBLE. INSTALL ALL PIPING AND DUCTWORK WITHIN 12" FROM SUPPORTING STRUCTURE.
18. PROVIDE A MARINE TOPSIDE BLACK PAINT ON ALL NEW GAS PIPING.
19. MECHANICAL PIPING SCHEDULE:
 - A. REFRIGERANT PIPING = ACR TYPE L - BRAZED



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REV.	DATE	DESCRIPTION
2	10.20.23	City Comments R2

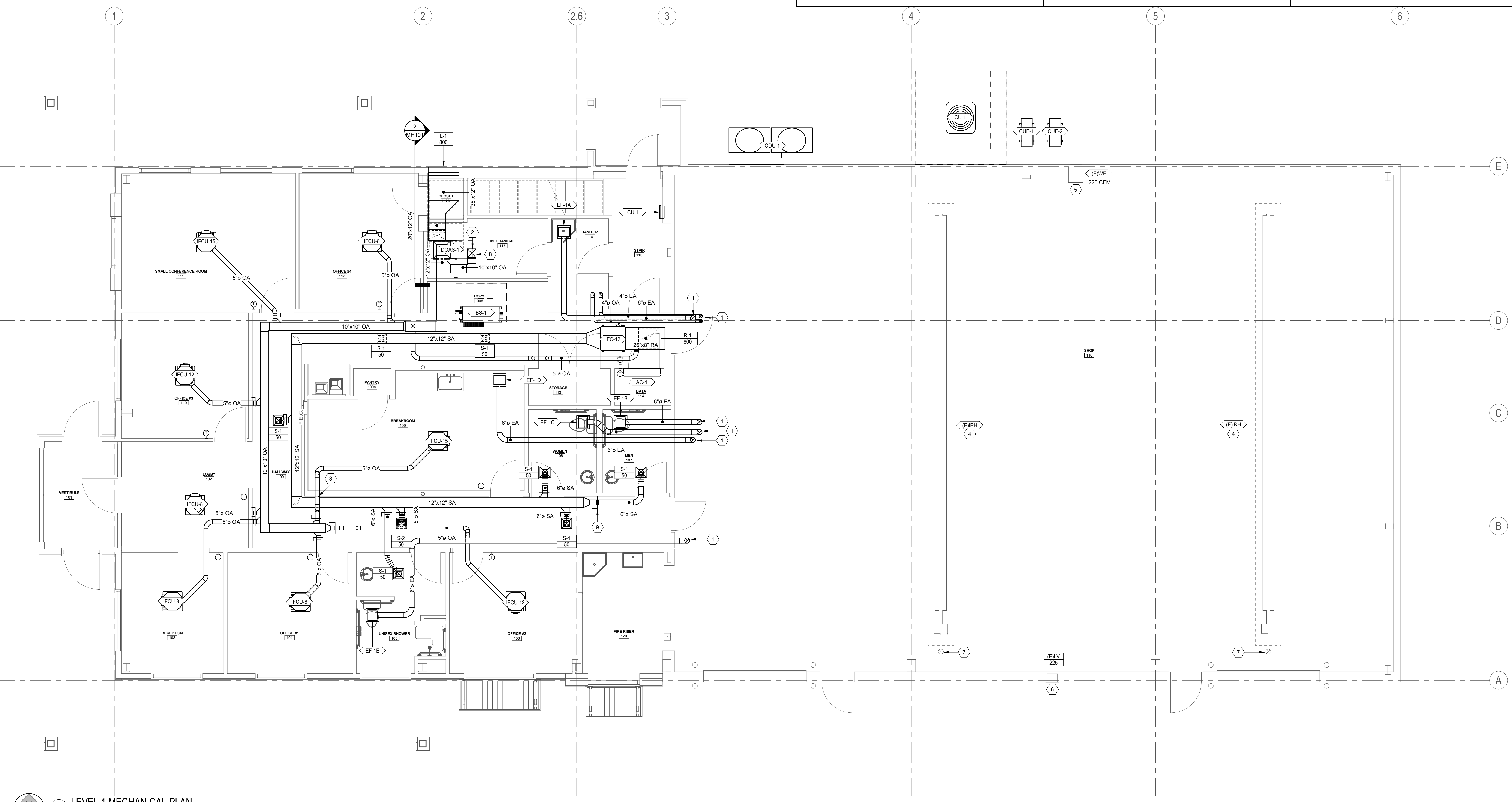
Submitted by:	06 FEB 2024	REV:	2
Drawn by:	RHB	File:	
Reviewed by:	LCG	Scale:	As indicated
Submitted by:	RHB	Project Number:	ES230027P

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RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

LEVEL 1 MECHANICAL PLAN

SHEET NUMBER
MH101



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

SHEET KEYNOTES

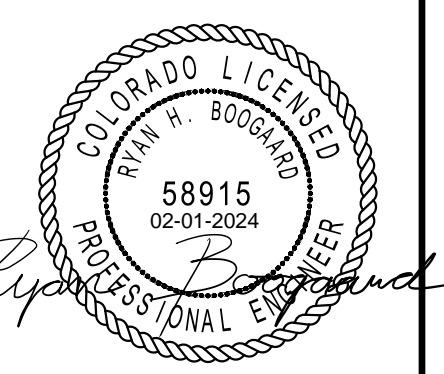
- 1 DUCT RISE UP FROM LEVEL 1 TO RUN TO EXTERIOR WALL.
- 2 INSTALL LOUVER AT 19 FT FROM THE BOTTOM OF THE LOUVER TO THE FINISHED FLOOR.
- 3 DUCT DROP DOWN TO LEVEL 1 IN THIS APPROXIMATE LOCATION.

MECHANICAL GENERAL NOTES

- 1. ALL EQUIPMENT TO BE SELECTED BASED OFF OF SITE INFORMATION, INCLUDING CURBS EQUAL TO OR GREATER THAN DESIGN SNOW DEPTH. ELEVATION: 6035 FT SDB: 80F SWB: 57F WDB: 27F DESIGN SNOW DEPTH: 4"
- 2. THIS CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE.
- 3. ALL LOW PRESSURE RECTANGULAR DUCTWORK TO BE LINED WITH INSULATION WITH AN R-VALUE OF R-6. ALL LOW PRESSURE ROUND DUCTWORK TO BE WRAPPED WITH INSULATION WITH AN R-VALUE OF R-6. NO DUCT LINER IN OUTSIDE AIR DUCTWORK OR DUCTWORK WITH IN DUCT HUMIDIFIERS.
- 4. ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
- 5. FLEXIBLE DUCT MAY BE USED AT FINAL TERMINATION OF DUCT TO DIFFUSER OR GRILLE. MAXIMUM FLEXIBLE DUCT LENGTH IS 5'-0". PROVIDE DUCT SUPPORTS EVERY 3 FEET. FLEX DUCT SHALL NOT BE COMPRESSED OR KINKED BY ANY OBJECTS SUCH AS STRUCTURE, PIPING, ETC.
- 6. GRILLES AND DUCTWORK ARE SIZED INDEPENDENTLY. THE NECK SIZE OF GRILLES MAY NOT MATCH THE ASSOCIATED DUCT SIZE. PROVIDE TRANSITION TO GRILLES AS NECESSARY.
- 7. PROVIDE BALANCING DAMPER WITH LOCKING QUADRANT IN EACH DUCT BRANCH OF SUPPLY AND EXHAUST DUCTWORK.
- 8. PROVIDE REMOTE CABLE OPERATED DAMPERS FOR ALL DUCTWORK ABOVE HARD LID CEILING OR WHERE DAMPER IS INACCESSIBLE OR PROVIDE OPPOSED BLADE DAMPER WITH NYLON BUSHINGS AT GRILLE.
- 9. PROVIDE ACCESS DOORS FOR ALL SERVICEABLE EQUIPMENT OR VALVES ABOVE HARD LID CEILING OR IN WALLS. ALL ACCESS PANELS ARE TO BE PAINTED TO MATCH ADJACENT SURFACES.
- 10. GC TO HIRE NEBB OR AABC CERTIFIED THIRD PARTY TEST AND BALANCE (TAB) CONTRACTOR. TAB CONTRACTOR SHALL ADJUST SHEAVES, BELTS, DAMPERS, ETC AS NECESSARY TO BALANCE SYSTEM TO AIRFLOWS REQUIRED AT LOWEST POSSIBLE SPEEDS. FOLLOW PROCEDURES AS LAID FORTH IN THE CURRENT VERSION OF "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING AND BALANCING OF ENVIRONMENTAL SYSTEMS" BY NEBB. PROVIDE REPORT ON NEBB FORMS TO ENGINEER FOR REVIEW.
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- 12. COORDINATE EXACT THERMOSTAT LOCATIONS WITH FURNITURE AND OWNER. FAILURE TO DO SO MAY REQUIRE MOVING THERMOSTATS AT CONTRACTORS COST.

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- 14. GENERAL CONTRACTOR SHALL HIRE A 3RD PARTY COMMISSIONING AGENT TO COMMISSION NEW HVAC EQUIPMENT. COMMISSIONING AGENT SHALL BE LICENSED MECHANICAL ENGINEER. COMMISSIONING AGENT TO PROVIDE COMMISSIONING PLAN LISTING EQUIPMENT AND TEST TO BE PERFORMED TO ENGINEER FOR REVIEW. COMMISSIONING AGENT SHALL PROVIDE REPORT STATING ANY SYSTEM DEFICIENCIES AND LISTING ANY DEFERRED TESTS.
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- 17. PROVIDE A MARINE TOPSIDE BLACK PAINT ON ALL NEW GAS PIPING.
- 18. MECHANICAL PIPING SCHEDULE:
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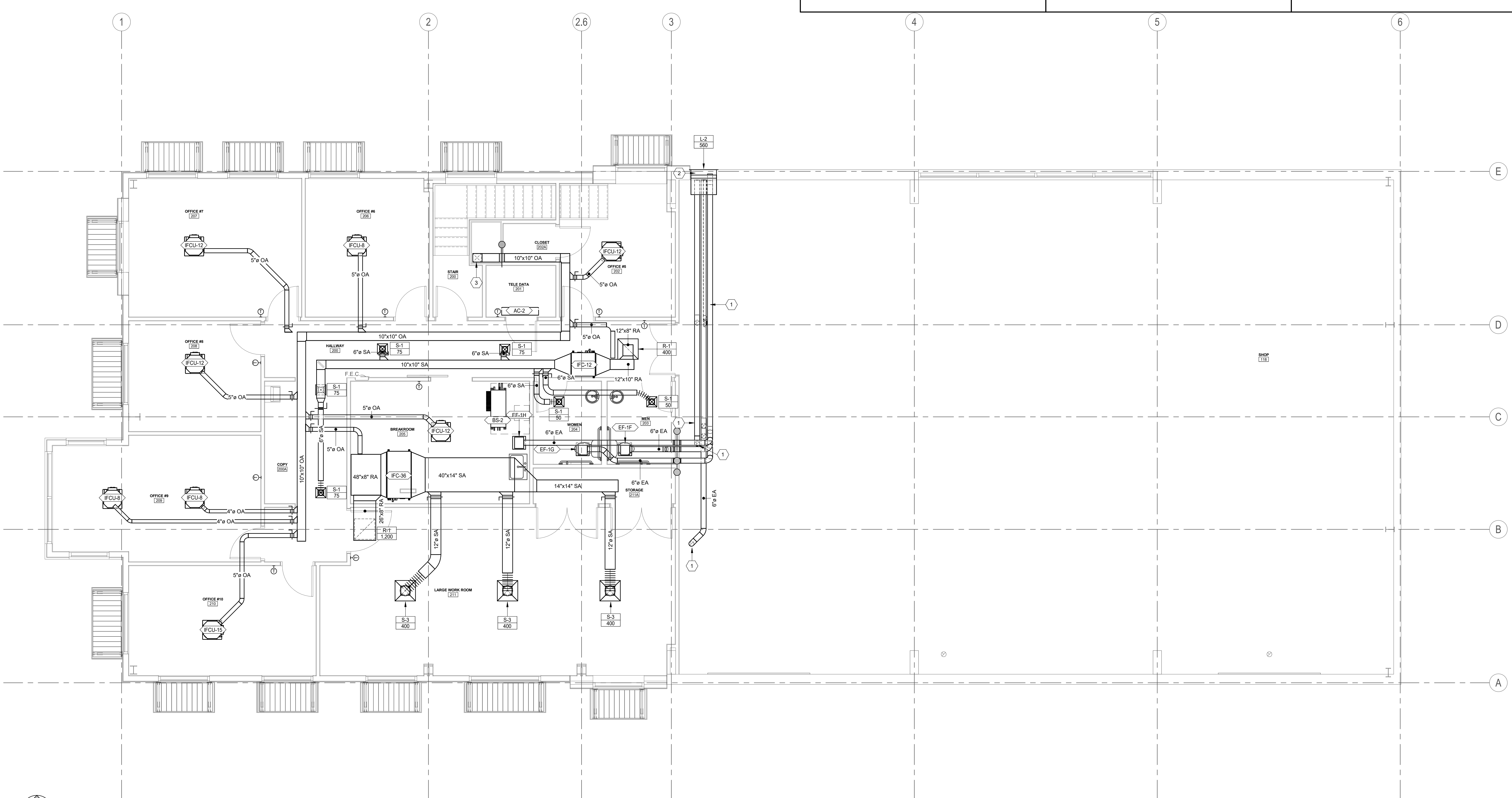
REV.	DESCRIPTION	DATE
2	City Comments R2	10.20.23

Submitted by:	06 FEB 2024	REV:	2
Drawn by:	RHB	File:	
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RCH Valley
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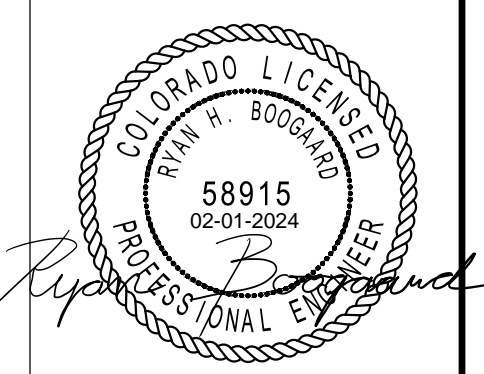
LEVEL 2 MECHANICAL PLAN
 SHEET NUMBER
MH102



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

1 2 3 4 5

SHEET KEYNOTES		MECHANICAL GENERAL NOTES	MECHANICAL GENERAL NOTES
1	GAS METER INFORMATION: PRESSURE: 40Z, CAPACITY: 171 CFH, LONGEST LENGTH: 80 FT	1. ALL EQUIPMENT TO BE SELECTED BASED OFF OF SITE INFORMATION, INCLUDING CURBS EQUAL TO OR GREATER THAN DESIGN SNOW DEPTH. ELEVATION: 6035 FT SDB: 80F SWB: 67F WDB: 27F DESIGN SNOW DEPTH: 4"	13. CONTRACTOR SHALL FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS. PROVIDE FACTORY AUTHORIZED STARTUP OF ALL EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING AND/OR COMMUNICATION TO BMS.
2	PROVIDE SHUT OFF VALVE IN THIS APPROXIMATE LOCATION.	2. THIS CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE.	14. GENERAL CONTRACTOR SHALL HIRE A 3RD PARTY COMMISSIONING AGENT TO COMMISSION NEW HVAC EQUIPMENT. COMMISSIONING AGENT SHALL BE LICENSED MECHANICAL ENGINEER. COMMISSIONING AGENT TO PROVIDE COMMISSIONING PLAN LISTING EQUIPMENT AND TEST TO BE PERFORMED TO ENGINEER FOR REVIEW. COMMISSIONING AGENT SHALL PROVIDE REPORT STATING ANY SYSTEM DEFICIENCIES AND LISTING ANY DEFERRED TESTS.
3	CONTINUED BY CIVIL.	3. ALL LOW PRESSURE RECTANGULAR DUCTWORK TO BE LINED WITH INSULATION WITH AN R-VALUE OF R-6. ALL LOW PRESSURE ROUND DUCTWORK TO BE WRAPPED WITH INSULATION WITH AN R-VALUE OF R-6. NO DUCT LINER IN OUTSIDE AIR DUCTWORK OR DUCTWORK WITH IN DUCT HUMIDIFIERS.	15. PROVIDE OPERATION AND MAINTENANCE MANUALS (O&M) WITHIN 30 DAYS OF CERTIFICATE OF OCCUPANCY FOR ALL EQUIPMENT IN DIGITAL FORMAT TO ENGINEER FOR REVIEW. O&M'S SHALL INCLUDE DOCUMENTATION OF ALL WARRANTIES, REPORTS AND TESTS. RECORD DRAWINGS, CONTROLS SEQUENCE OF OPERATIONS WITH DIAGRAMS, & EQUIPMENT INFORMATION. EQUIPMENT INFORMATION INCLUDES MAKE & MODEL, WIRING, PIPING, STARTUP, SHUTDOWN, TROUBLE SHOOTING SYSTEM BALANCING REPORT, FINAL COMMISSIONING REPORT AND MAINTENANCE PROCEDURES.
		4. ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.	16. PIPING AND DUCTWORK SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING AND DUCTWORK WITHIN 12" FROM SUPPORTING STRUCTURE.
		5. FLEXIBLE DUCT MAY BE USED AT FINAL TERMINATION OF DUCT TO DIFFUSER OR GRILLE. MAXIMUM FLEXIBLE DUCT LENGTH IS 5'-0". PROVIDE DUCT SUPPORTS EVERY 3 FEET. FLEX DUCT SHALL NOT BE COMPRESSED OR KINKED BY ANY OBJECTS SUCH AS STRUCTURE, PIPING, ETC.	17. PROVIDE A MARINE TOPSIDE BLACK PAINT ON ALL NEW GAS PIPING.
		6. GRILLES AND DUCTWORK ARE SIZED INDEPENDENTLY. THE NECK SIZE OF GRILLES MAY NOT MATCH THE ASSOCIATED DUCT SIZE. PROVIDE TRANSITION TO GRILLES AS NECESSARY.	18. MECHANICAL PIPING SCHEDULE: A. REFRIGERANT PIPING = ACR TYPE L - BRAZED
		7. PROVIDE BALANCING DAMPER WITH LOCKING QUADRANT IN EACH DUCT BRANCH OF SUPPLY AND EXHAUST DUCTWORK.	
		8. PROVIDE REMOTE CABLE OPERATED DAMPERS FOR ALL DUCTWORK ABOVE HARD LID CEILINGS OR WHERE DAMPER IS INACCESSIBLE OR PROVIDE OPPOSED BLADE DAMPER WITH NYLON BUSHINGS AT GRILLE.	
		9. PROVIDE ACCESS DOORS FOR ALL SERVICEABLE EQUIPMENT OR VALVES ABOVE HARD LID CEILINGS OR IN WALLS. ALL ACCESS PANELS ARE TO BE PAINTED TO MATCH ADJACENT SURFACES.	
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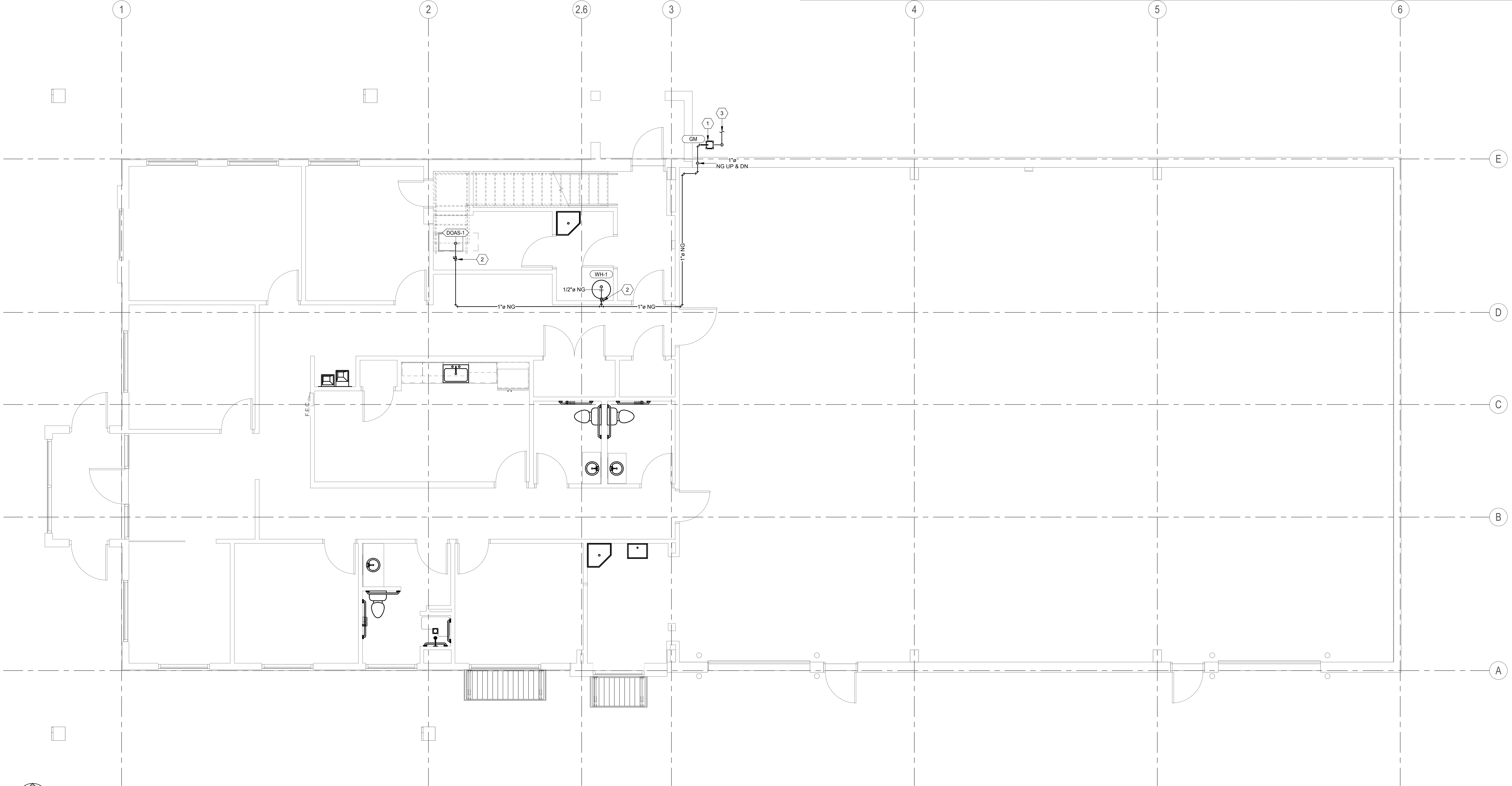
Rev.	Date	Description

Designed by:	Submitted by:
RHB	RHB
Drawn by:	File:
LCG	
Reviewed by:	Scale:
RHB	As indicated
Submitted by:	Project Number:
RHB	ES20027P

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RCH Valley
 Real Color Holdings, LLC
 875 Valley St
 Colorado Springs, CO
 80915
 LEVEL 1 MECHANICAL PLAN - NATURAL GAS

SHEET NUMBER
MH103



1 LEVEL 1 NATURAL GAS
 1/4" = 1'-0"

SHEET KEYNOTES

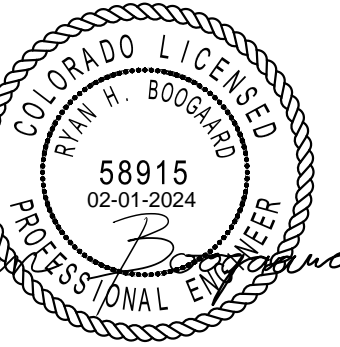
1 RUN CONDENSATE DRAIN PIPE IN CEILING SPACE.

MECHANICAL GENERAL NOTES

- ALL EQUIPMENT TO BE SELECTED BASED OFF OF SITE INFORMATION, INCLUDING CURBS EQUAL TO OR GREATER THAN DESIGN SNOW DEPTH. ELEVATION: 6035 FT SDB: 80°F SWB: 67°F WDB: 27°F DESIGN SNOW DEPTH: 4"
- THIS CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE.
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- GC TO HIRE NEBB OR AABC CERTIFIED THIRD PARTY TEST AND BALANCE (TAB) CONTRACTOR. TAB CONTRACTOR SHALL ADJUST SHEAVES, BELTS, DAMPERS, ETC AS NECESSARY TO BALANCE SYSTEM TO AIRFLOWS REQUIRED AT LOWEST POSSIBLE SPEEDS. FOLLOW PROCEDURES AS LAID FORTH IN THE CURRENT VERSION OF "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING AND BALANCING OF ENVIRONMENTAL SYSTEMS" BY NEBB. PROVIDE REPORT ON NEBB FORMS TO ENGINEER FOR REVIEW.
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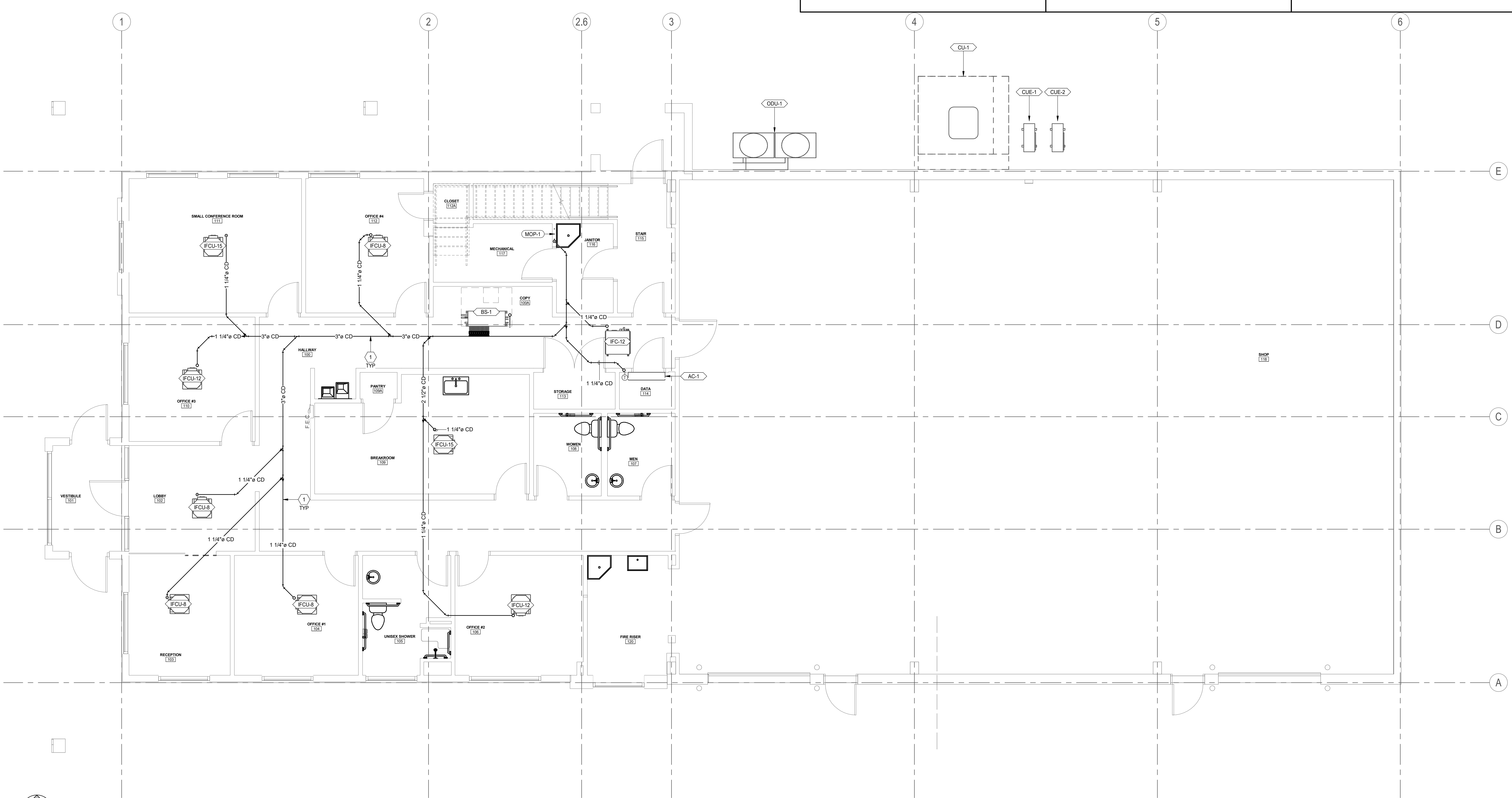
REV.	DESCRIPTION	DATE	APP.

Designed by:	RHB	Submitted:	06 FEB 2024
Drawn by:	LCG	File:	
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RCH Valley
 Real Color Holdings, LLC
 875 Valley St
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 80915

SHEET NUMBER
MH104



LEVEL 1 CONDENSATE DRAIN
 1/4" = 1'-0"

MECHANICAL GENERAL NOTES

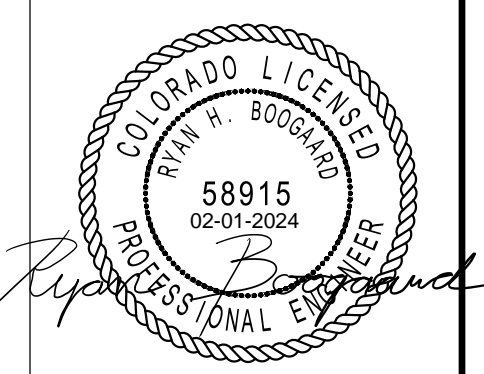
- BREAKROOM AND PANTRY (202 & 202A)
- HALLWAY (200)
- JANITOR 118
- JANITOR (116)
- LARGE WORK ROOM (210)
- OFFICE #5 (205)
- OFFICE #6 (206)
- OFFICE #7 (207)
- OFFICE #8 (208)
- OFFICE #9 (209)
- OPEN WAREHOUSE AND FIRE RISER (118 & 120)
- TELE DATA (201)

MECHANICAL GENERAL NOTES

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MECHANICAL GENERAL NOTES

13. CONTRACTOR SHALL FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS. PROVIDE FACTORY AUTHORIZED STARTUP OF ALL EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING AND/OR COMMUNICATION TO BMS.
14. GENERAL CONTRACTOR SHALL HIRE A 3RD PARTY COMMISSIONING AGENT TO COMMISSION NEW HVAC EQUIPMENT. COMMISSIONING AGENT SHALL BE LICENSED MECHANICAL ENGINEER. COMMISSIONING AGENT TO PROVIDE COMMISSIONING PLAN LISTING EQUIPMENT AND TEST TO BE PERFORMED TO ENGINEER FOR REVIEW. COMMISSIONING AGENT SHALL PROVIDE REPORT STATING ANY SYSTEM DEFICIENCIES AND LISTING ANY DEFERRED TESTS.
15. PROVIDE OPERATION AND MAINTENANCE MANUALS (O&M) WITHIN 30 DAYS OF CERTIFICATE OF OCCUPANCY FOR ALL EQUIPMENT IN DIGITAL FORMAT TO ENGINEER FOR REVIEW. O&M'S SHALL INCLUDE DOCUMENTATION OF ALL WARRANTIES, REPORTS AND TESTS. RECORD DRAWINGS, CONTROLS SEQUENCE OF OPERATIONS WITH DIAGRAMS, & EQUIPMENT INFORMATION. EQUIPMENT INFORMATION INCLUDES MAKE & MODEL, WIRING, PIPING, STARTUP, SHUTDOWN, TROUBLE SHOOTING SYSTEM BALANCING REPORT, FINAL COMMISSIONING REPORT AND MAINTENANCE PROCEDURES.
16. PIPING AND DUCTWORK SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING AND DUCTWORK WITHIN 12" FROM SUPPORTING STRUCTURE.
17. PROVIDE A MARINE TOPSIDE BLACK PAINT ON ALL NEW GAS PIPING.
18. MECHANICAL PIPING SCHEDULE:
 - A. REFRIGERANT PIPING = ACR TYPE L - BRAZED



EA SOLUTIONS
 324 S. State Street, Suite 444
 Salt Lake City, UT 84111
 www.easolutions.us
 385-549-8800

REV.	DATE	DESCRIPTION

Submitted by:	06 FEB 2024
Designed by:	RHB
Drawn by:	LCG
Reviewed by:	RHB
Submitted by:	RHB
File:	
Scale:	As indicated
Project Number:	ES230027P

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RCH Valley
 Real Color Holdings, LLC
 875 Valley St
 Colorado Springs, CO
 80915

LEVEL 2 MECHANICAL ZONING PLAN
 SHEET NUMBER
MZ102



1 LEVEL 2 HVAC ZONING PLAN
 1/4" = 1'-0"

TYPE	DESCRIPTION	MFR.	CATALOG NUMBER
FB02	CAST IN PLACE NEW WORK FLOOR BOX WITH 2" DATA CONDUIT	WIEMOLD	EFBBS 83 (BOX) EFBBS18K (COVER)
PT01	6" POKE THROUGH FLOOR BOX WITH POWER AND 2" CONDUIT FOR DATA/HDM	FSR	SF6-CPT-AVD-BLK

PANEL INDEX					
PANEL	LOCATION	VOLTS	MAINS	No. OF PHASE S	No. OF WIRES
L1	MECHANICAL / 117	208 V3-0 VA	225 A	3	4
L2	TELE DATA 201	208 V3-0 VA	225 A	3	4
L31	OPEN WAREHOUSE-2 / 118-2	208 V3-0 VA	225 A	3	4
MAIN		480 V3-0 VA-480 V3-0 VA			
CT CABINET	OPEN WAREHOUSE-2 / 118-2	480 V3-0 VA-480 V3-0 VA	800 A	3	4
NDP	OPEN WAREHOUSE-2 / 118-2	480 V3-0 VA-480 V3-0 VA			
ATS		ATS #1 CONNECTION 480 V3-0VA-ATS #2 CONNECTION 0 V1-0 VA			
GEN			0 A	3	4
LMDP	OPEN WAREHOUSE-2 / 118-2	208 V3-0 VA	1000 A	3	4
TX-1	OPEN WAREHOUSE-2 / 118-2	480 V3-0 VA			
HT	OPEN WAREHOUSE-2 / 118-2	480 V3-0 VA	225 A	3	4

ABBREVIATIONS INDEX

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	M	MANHOLE
AC	ALTERNATING CURRENT	MC	MICROPHONE
A.F.F.	ABOVE FINISH FLOOR	MIN	MINIMUM
AIC	AMPS INTERRUPTING CAPACITY	MTG	MOUNTING
AM	AMPS METER	MTR	MOTOR
AMP	AMPERE	N/A	NOT APPLICABLE
ANN	ANNUNCIATOR	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AUX	AUXILIARY	NEMA	NATIONAL ELECT. MANUFAC. ASSOC.
AWG	AMERICAN WIRE GAUGE	NFPA	NATIONAL FIRE PROTECTION ASSOC.
BC	BARE COPPER	N.I.C.	NOT IN CONTRACT
BFG	BELOW FINISH GRADE	NO	NORMALLY OPENED
C	CONDUIT	NTS	NOT TO SCALE
CAB	CABINET	OS & Y	OUTSIDE SCREW & YOKE
CATV	COMMUNITY ANTENNA TELEVISION	PB	PUSHBUTTON
CAV	CABLE TELEVISION	PF	POWER FACTOR
CRK	CIRCUIT	PF	PHASE FAILURE RELAY
CLG	CHEMICAL	PNL	PANEL
CNTR	CONTRACTOR	PT	POTENTIAL TRANSFORMER
C.O.	CONDUIT ONLY	PVC	POLYVINYL CHLORIDE CONDUIT
CR	COMPUTER TERMINAL	(R)	RELOCATE
CT	CURRENT TRANSFORMER	RECEP	RECEPTACLE
CU	COPPER	REQ	REQUIREMENT
CW	COMPLETE WITH	RLA	RATED LOAD AMPS
DCB	DECIBEL	RMP	ROCKY MOUNTAIN POWER
DC	DIRECT CURRENT	RMS	ROOT MEAN SQUARE
DWG	DRAWING	SE	SERVICE ENTRANCE
(E)	EXISTING	SPEC	SPECIFICATIONS
EC	EMPTY CONDUIT	SPKR	SPEAKER
EG	EMERGENCY GENERATOR	SS	SELECTOR SWITCH
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EX	EXPLOSION PROOF	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	SWGR	SWITCHGEAR
FC	FOOT CANDLE	TTB	TELEPHONE TERMINAL BOARD
FT	FOOT	TYC	TELEPHONE TERMINAL CABINET
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
GND	GROUND	TYP	TYPICAL
GRC	GALVANIZED RIGID CONDUIT	UG	UNDERGROUND
HP	HORSE POWER	UPS	UNINTERRUPTED POWER SUPPLY
HZ	HERTZ	V	VOLT (KV=KILOVOLT)
IFC	INTERNATIONAL FIRE CODE	VAR	VOLT-AMPERE REACTIVE
IG	ISOLATED GROUND	VM	VOLT METER
IMC	INTERMEDIATE METALLIC CONDUIT	W	WATTS
IN	INCH	W	WITH
J-BOX	JUNCTION BOX	WH	WATTHOUR METER
KV	KILOVOLT	W/O	WITHOUT
KVA	KILOVOLT AMPERES	WP	WEATHERPROOF
KVAR	KILOVAR	WR	WIND RESISTANT
KW	KILOWATT	XFMR	TRANSFORMER
LRA	LOCKED ROTOR AMPS	XP	EXPLOSION PROOF
LTG	LIGHTING	1P	SINGLE-PHASE
MNF	MANUFACTURER	2P	TWO-POLE
MAX	MAXIMUM	3P	THREE-POLE
MB	MAIN BUS	4P	FOUR-POLE
MCC	MOTOR CONTROL CENTER	Ø	PHASE
MCM	1000 CIRCULAR MILLS		

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
[Symbol]	ONE CIRCUIT, HOME RUN TO PANEL			[Symbol]	EQUIPMENT PANEL, SEE DRAWINGS	+72"	6.
[Symbol]	2 CIRCUIT, HOME RUN TO PANEL			[Symbol]	CABLE TRAY	AS NOTED	
[Symbol]	3 CIRCUIT, HOME RUN TO PANEL			[Symbol]	GROUND BUS BAR	+18"	6.
[Symbol]	CONDUIT RUN CONCEALED IN WALL OR CEILING			[Symbol]	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
[Symbol]	CONDUIT RUN CONCEALED IN FLOOR OR GROUND			[Symbol]	EQUIPMENT NUMBER		
[Symbol]	CONDUIT UP			[Symbol]	ARCHITECTURAL ROOM NUMBER		
[Symbol]	CONDUIT DOWN			[Symbol]	DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE		
[Symbol]	CONDUIT STUB LOCATION			[Symbol]	DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE / LEGEND		
[Symbol]	CONDUIT / CIRCUIT CONTINUATION			[Symbol]			

GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED. MATERIAL ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH-IN.
- SEE SECTION 285100 (16510) OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION. COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR TO ROUGH-IN.
- CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH SCHEDULE PER TABLE BELOW.

SHEET INDEX

REV.	DATE	DESCRIPTION
2	07/13/2023	LOAD SHEET UPDATE

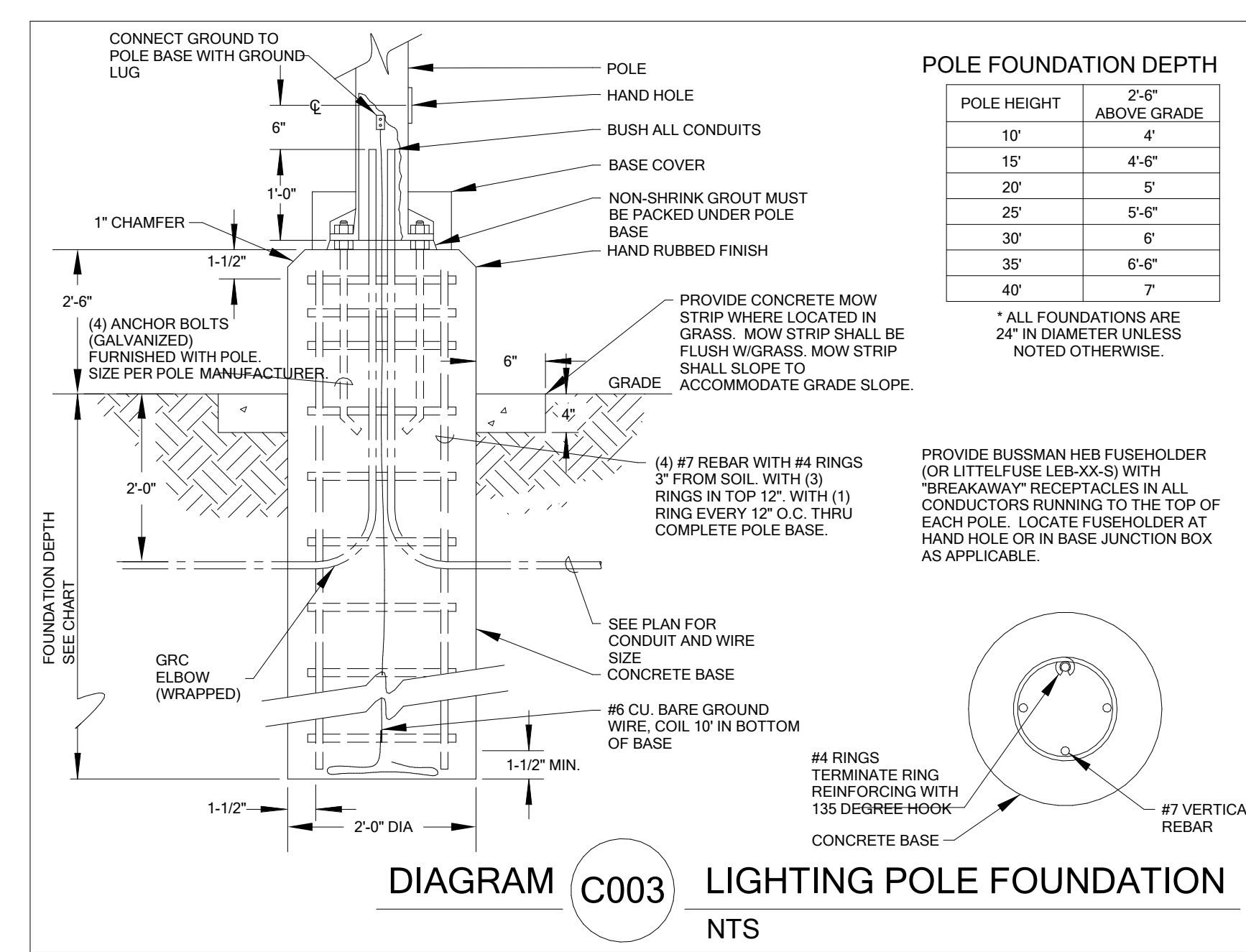
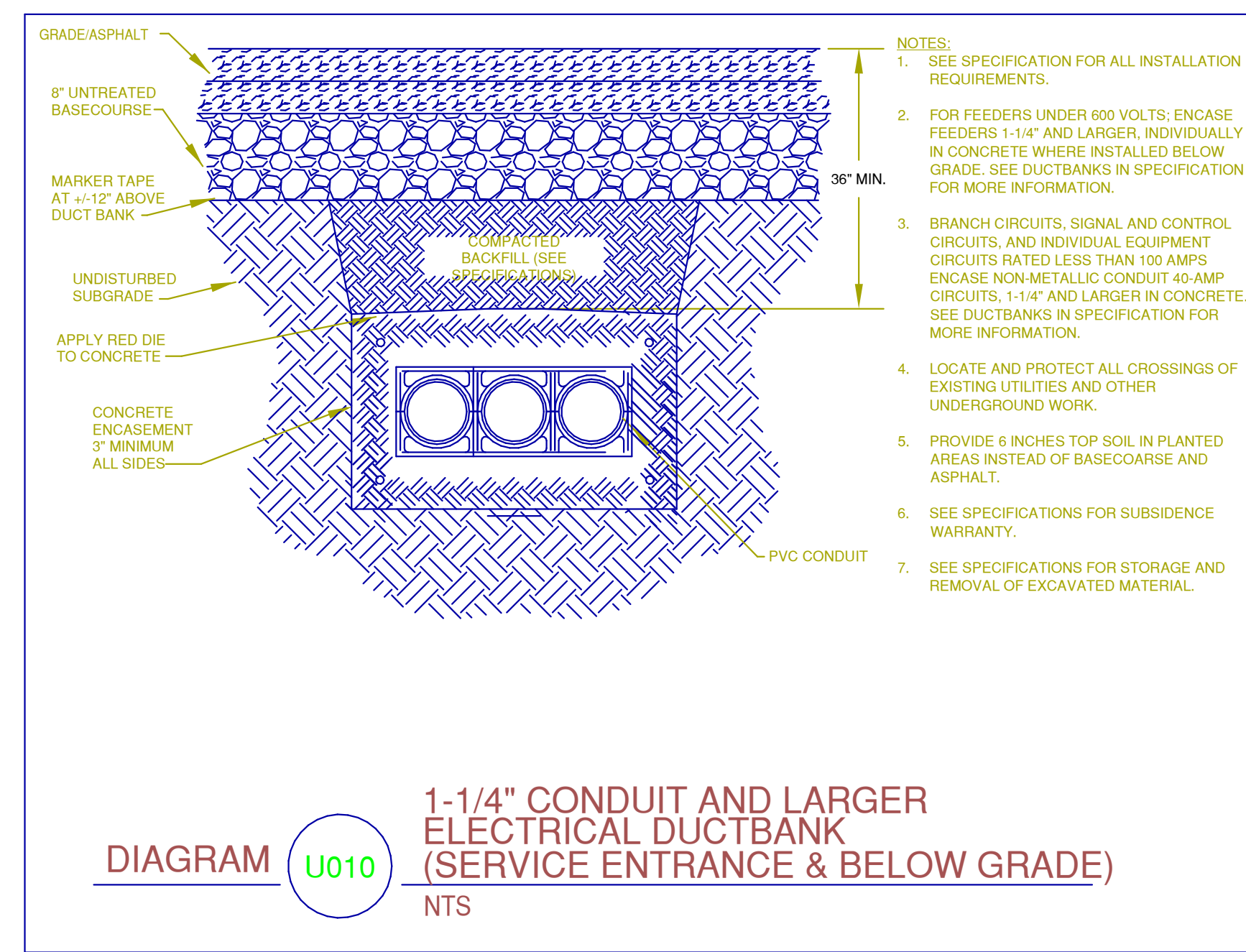
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 4225 Lake Park Blvd, Suite 275
 West Valley City, UT 84120
 P: 801.532.2196
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 www.bnaconsulting.com

MAXIMUM LENGTH	BRANCH CIRCUIT VOLTAGE	
CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT
<70	MIN. #12 AWG	MIN. #12 AWG
70 - 115	MIN. #10 AWG	MIN. #12 AWG
115 - 170	MIN. #8 AWG	MIN. #10 AWG
170 - 270	MIN. #6 AWG	MIN. #8 AWG
271 - 380	NOTE B	MIN. #6 AWG
>380	NOTE B	NOTE B

REV.	DATE	DESCRIPTION
2	07/13/2023	LOAD SHEET UPDATE

RCH Valley Real Color Holdings, LLC
 875 Valley Street
 Colorado Springs, CO 80915

ELECTRICAL SYMBOLS AND NOTES



SHEET KEYNOTES

E12 LIGHT POLE TO BE MOUNTED 50' FROM BUILDING, 4 HEAD UNIT WITH 30' POLE, (2) 3" TALL BASE, INSTALL 1" DATA CONDUIT AND 1" POWER CONDUIT AND SPARE 1" CONDUIT EXTEND THE SAME CONDUIT COUNT 10' TOWARD THE EAST FOR FUTURE POLE CONNECTION. WIRE POLE WITH #8 WIRE TO PANEL, INSTALL 3 CIRCUITS, ONE FOR LIGHT, 1" FOR EACH OF 2 OUTLET BOXES, ROLL (4) CAT 6 CABLE FOR CAMERAS AT THE TOP OF THE POLES BACK TO THE DATA RACK.

E13 (2) 2" CONDUIT 36" DEEP ACROSS ASPHALT, AND STUB 10' INTO GRAVEL PARKING, SEAL CONDUIT. (1) FOR POWER AND (1) FOR DATA. TURN CONDUIT UP AT BUILDING FACE, AND EXTEND INTO BUILDING WITH LB CONDUIT BODY 24" ABOVE FINISHED GRADE.

ELECTRICAL SITE UTILITY COORDINATION

ELECTRICAL SITE UTILITY INFORMATION HAS BEEN COORDINATED WITH THE FOLLOWING UTILITY COMPANY REPRESENTATIVES. VERIFY ALL LOCATIONS, DIMENSIONS, CLEARANCES, REGULATIONS, ETC., PRIOR TO INSTALLATION. NOTIFY ENGINEER OF ANY REVISIONS REQUIRED.

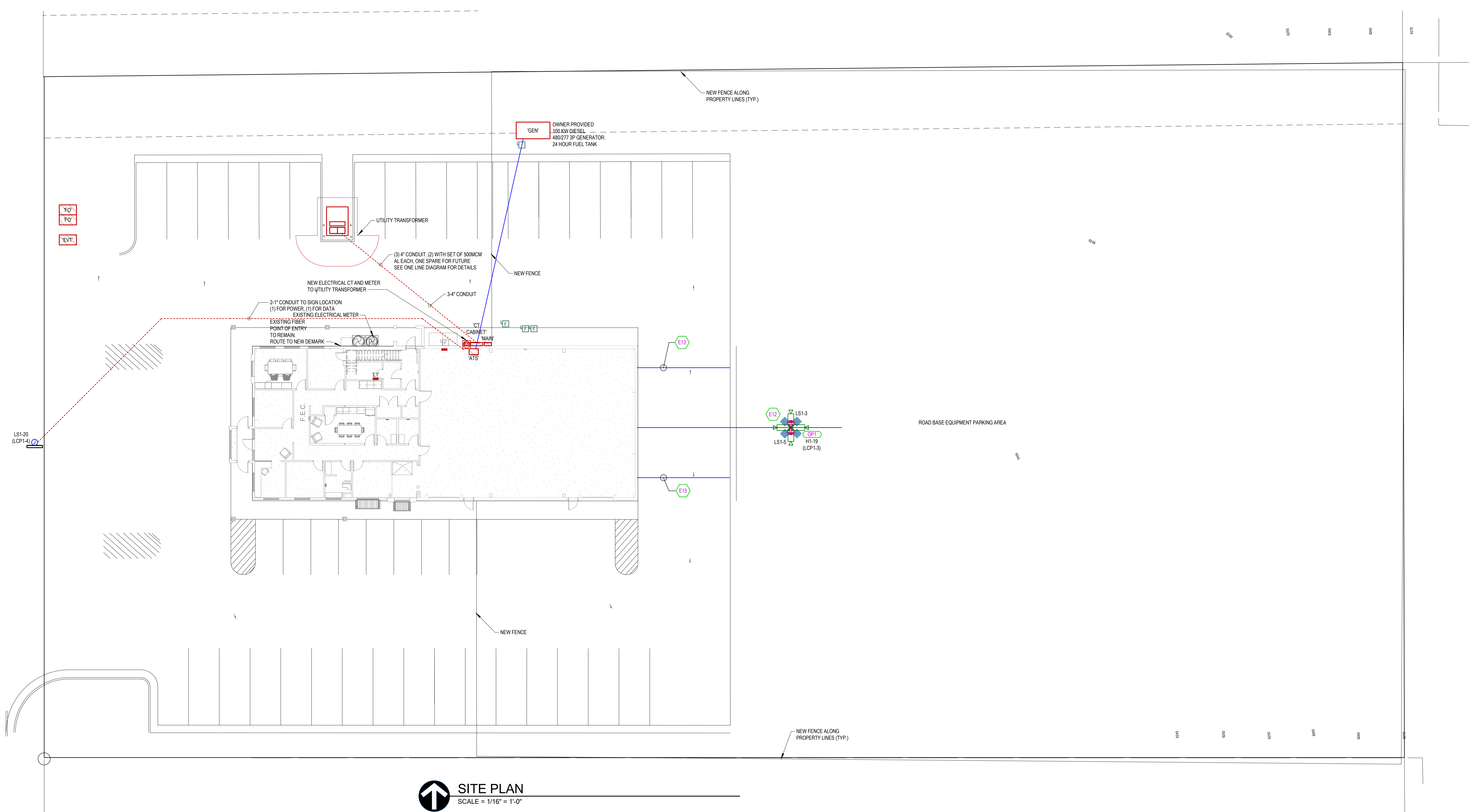
COMPANY	CONTACT	PHONE NO.	EMAIL	WORK ORDER NO.
POWER COMPANY	X	X	X	X
TELEPHONE COMPANY	X	X	X	X
CABLE TV COMPANY	X	X	X	X

SITE SHEET INDEX

NO.	DESCRIPTION
E100	SITE SYMBOLS AND NOTES
E102	TYPICAL DETAILS
E103	SITE PHOTOGRAPHIC

PROFESSIONAL ENGINEER
BRAND HIGGINS
4703
10/19/2023
06/01/2023

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REVISIONS

NO.	DATE	DESCRIPTION
1	10/19/2023	CITY COMMENTS
2	06/01/2023	Revision 1
3		

DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker
REVIEWED BY: Reviewer
DATE: 02/05/2024
PROJECT NUMBER: As indicated
PROJECT NUMBER: Project Number

REV: 3

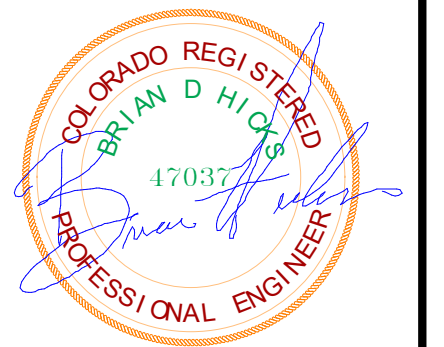
RCH Valley Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO 80915

SITE SYMBOLS AND NOTES

SHEET NUMBER
E100

DEMOLITION GENERAL NOTES

- 1. ALL ELECTRICAL IN LEVEL 1 AND LEVEL 2 TO BE COMPLETELY REMOVED, WITH EXCEPTION OF NOTE 2.
- 2. PROTECT EXISTING UTILITY FEED FOR COMMUNICATIONS. ROUTE TO NEW DEMARCATION LOCATION.



DEMOLITION SHEET INDEX

ED100	FIRST FLOOR DEMOLITION PLAN
ED101	SECOND FLOOR DEMOLITION PLAN

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REV.	Date	Description

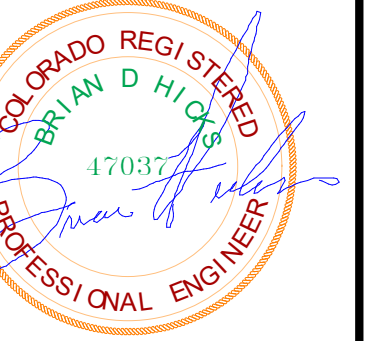
Submitted:	02/05/2024	REV:	
Designed by:		File:	
Drawn by:		Scale:	
Author:		Project Number:	
Reviewed by:		Project Number:	
Checked:			
Submitted by:			
Approver:			

RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

DEMOLITION SYMBOLS AND NOTES

DEMOLITION GENERAL NOTES

1. ALL ELECTRICAL IN LEVEL 1 AND LEVEL 2 TO BE COMPLETELY REMOVED, WITH EXCEPTION OF NOTE 2.
2. PROTECT EXISTING UTILITY FEED FOR COMMUNICATIONS, ROUTE TO NEW DEMARCATION LOCATION.



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REV	DESCRIPTION	DATE
1	Revision 1	06/01/2023

Designed by:	02/05/2024	REV: 1
Drawn by:	File:	
Author:	Scale:	
Checked by:	1/4" = 1'-0"	
Submitted by:	Project Number:	
Approver:	Project Number:	

RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

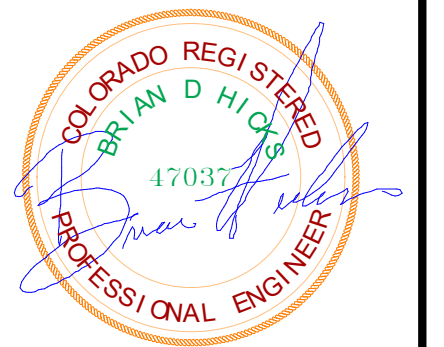
FIRST FLOOR DEMOLITION PLAN

SHEET NUMBER
ED100

FIRST FLOOR POWER PLAN
DEMOLITION PLAN
SCALE = 1/4" = 1'-0"

DEMOLITION GENERAL NOTES

- 1. ALL ELECTRICAL IN LEVEL 1 AND LEVEL 2 TO BE COMPLETELY REMOVED, WITH EXCEPTION OF NOTE 2.
- 2. PROTECT EXISTING UTILITY FEED FOR COMMUNICATIONS. ROUTE TO NEW DEMARCATION LOCATION.



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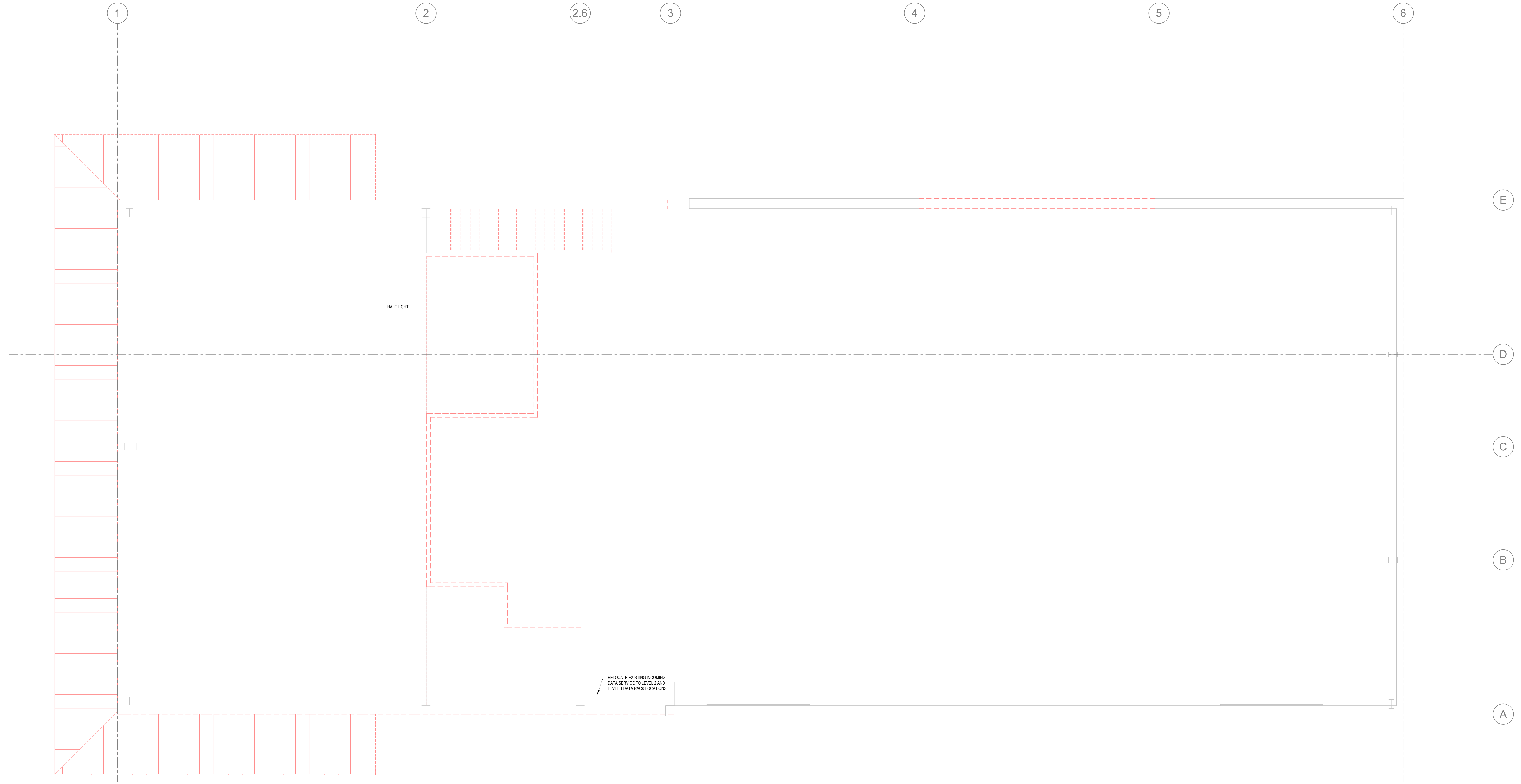
Rev.	Description	Date	Appr.

Designed by:		Submitted:		REV:	
Designer	02/05/2024				
Drawn by:	File:				
Author	Scale:				
	1/4" = 1'-0"				
Reviewed by:	Project Number:				
Checker	Project Number:				
Submitted by:					
Approver					

RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

SECOND FLOOR DEMOLITION PLAN

SHEET NUMBER
ED101



SECOND FLOOR DEMOLITION PLAN
SCALE = 1/4" = 1'-0"

SHEET KEYNOTES

E3 GENERATOR INSTALLATION SHALL COMPLY WITH THE PROVISIONS REQUIRED IN NEC, INCLUDING SECTIONS 702 AND 445.
 E13 (2) 2" CONDUIT 36" DEEP ACROSS ASPHALT, AND STUB 10" INTO GRAVEL PARKING. SEAL CONDUIT (1) FOR POWER AND (1) FOR DATA. TURN CONDUIT UP AT BUILDING FACE, AND EXTEND INTO BUILDING WITH LB CONDUIT BODY 24" ABOVE FINISHED GRADE.



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Rev	Date	Description
1	11/14/2023	4 ENGINEERING CORRECTIONS
2	06/07/2023	Revision 1

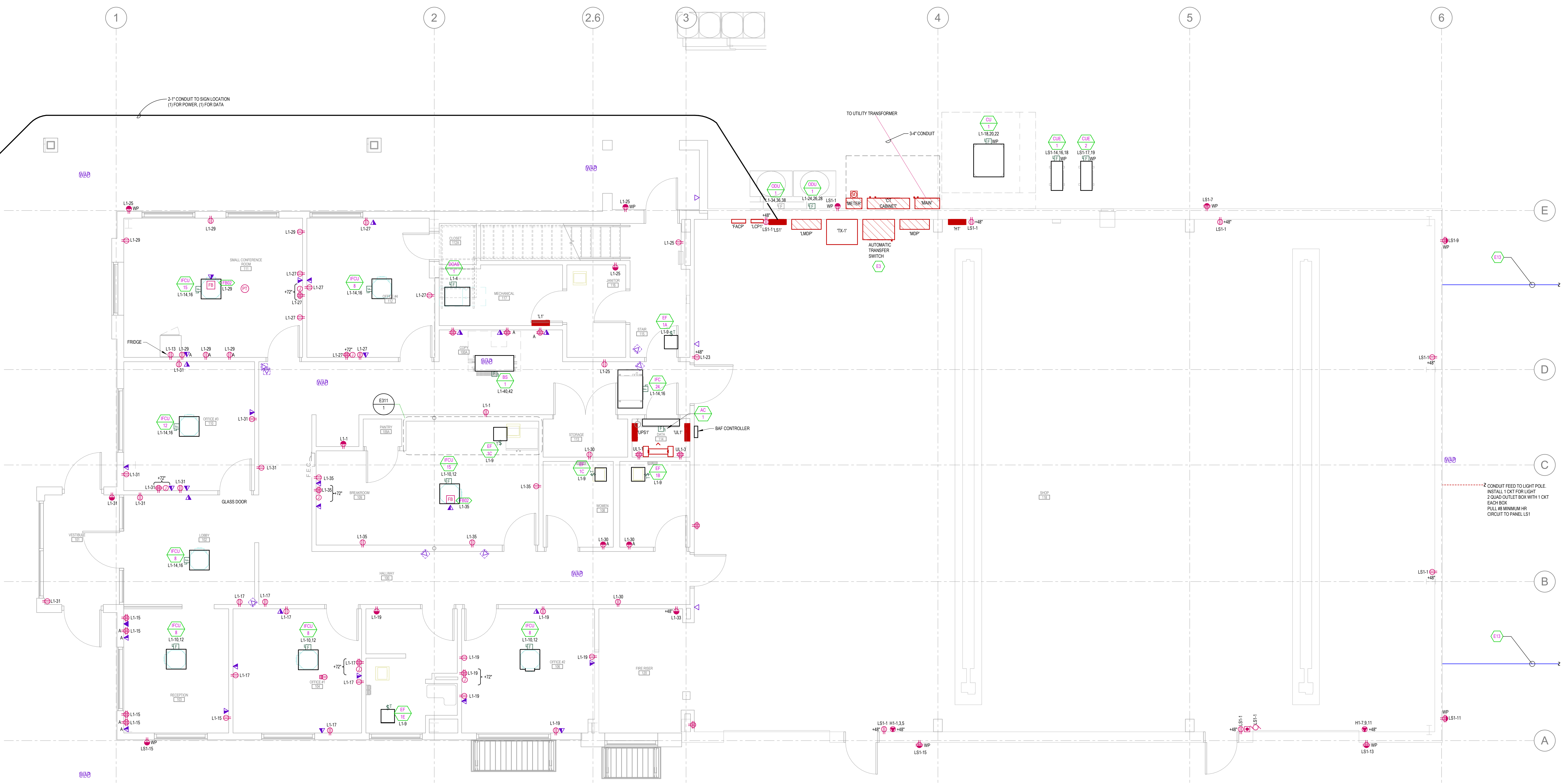
Submitted by:	02/05/2024	REV: 4
Designed by:		
Drawn by:		
Author:		
Reviewed by:		
Checker:		
Submitted by:		
Approver:		

2 CONDUIT FEED TO LIGHT POLE.
 INSTALL 1 CKT FORTLIGHT
 2 QUAD OUTLET BOX WITH 1 CKT
 EACH BOX
 PULL 48 MINIMUM HR
 CIRCUIT TO PANEL LS1

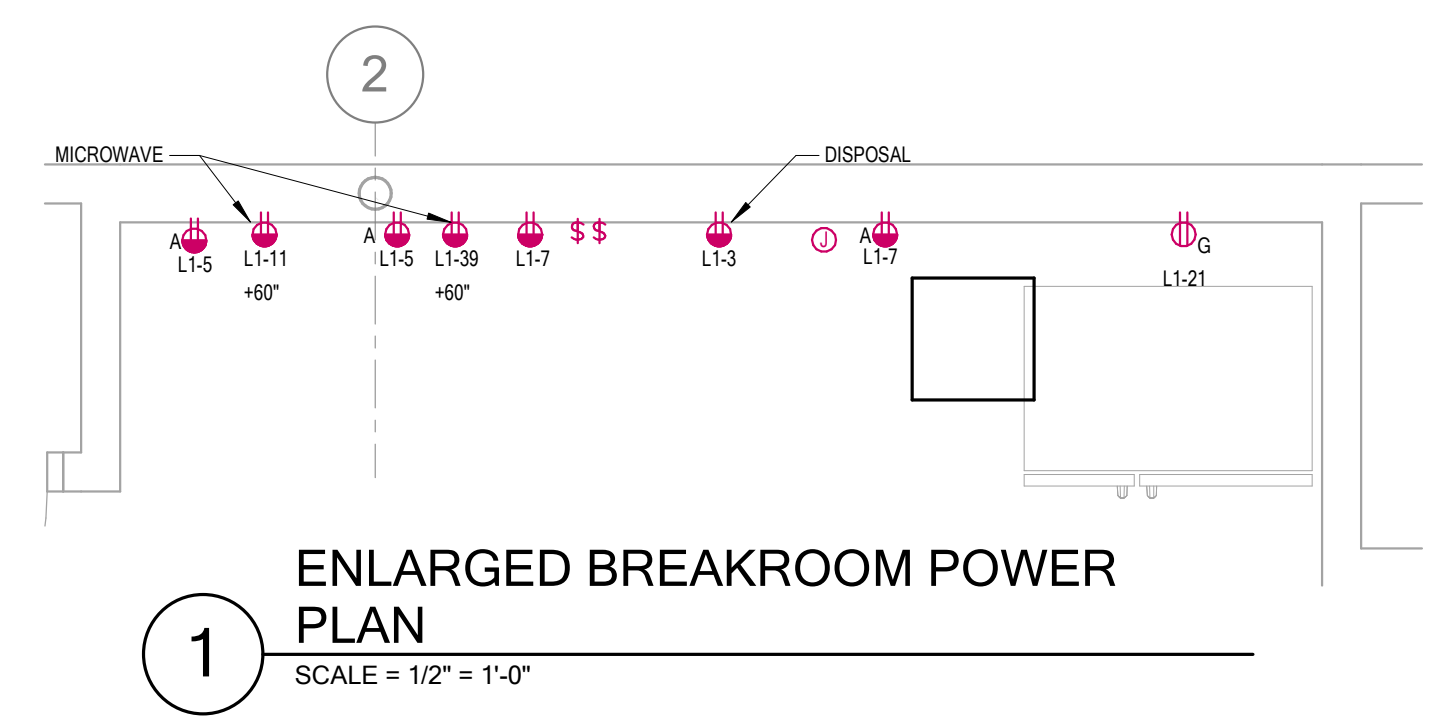
RCH Valley
Real Color Holdings, LLC
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FIRST FLOOR POWER PLAN

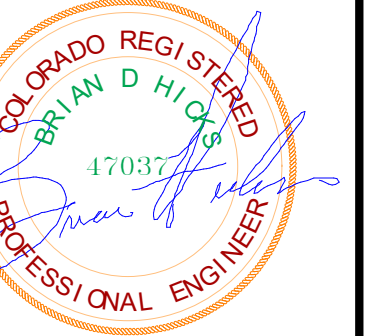
SHEET NUMBER
E311



FIRST FLOOR POWER PLAN
 SCALE = 1/4" = 1'-0"



ENLARGED BREAKROOM POWER PLAN
 SCALE = 1/2" = 1'-0"



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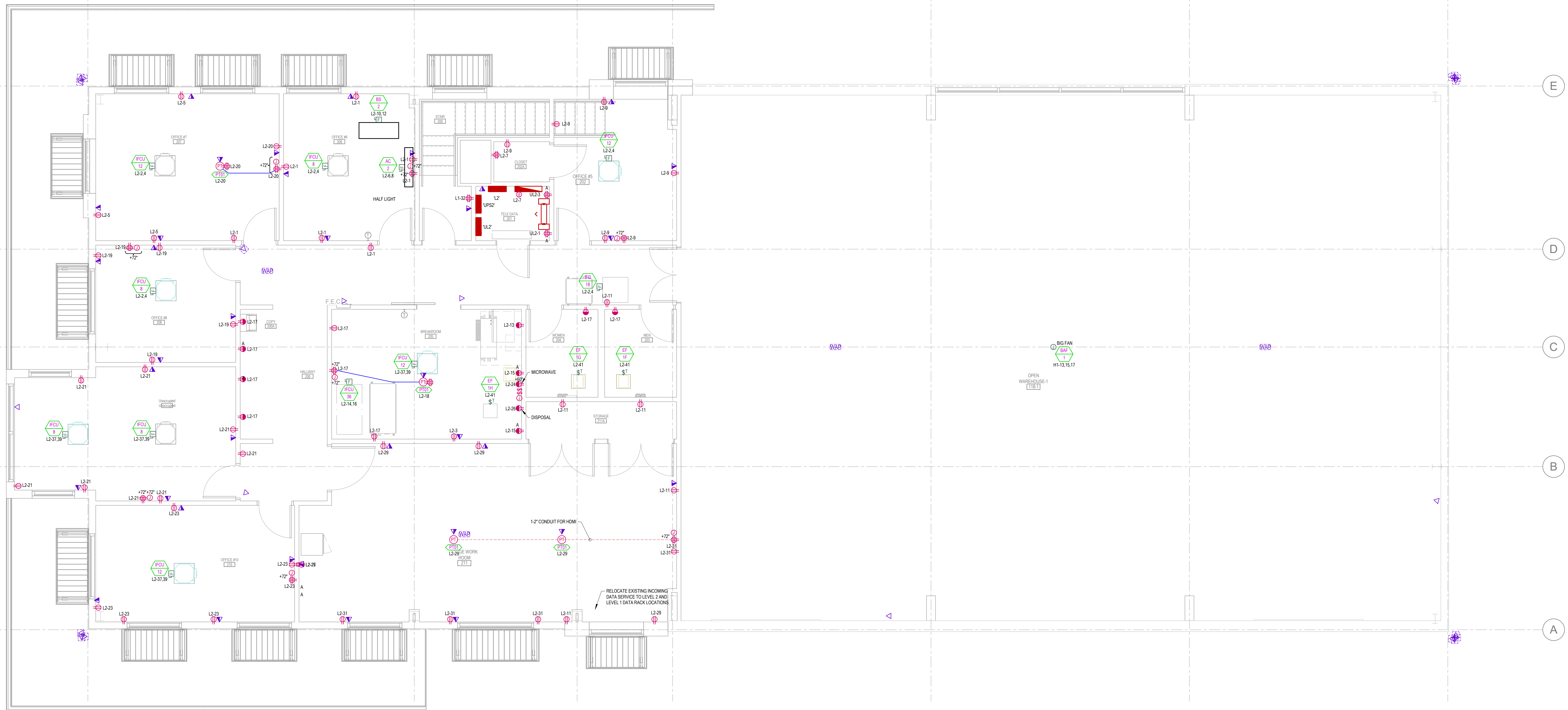
REV.	Date	Description
1	06/01/2023	Revision 1

Submitted:	02/05/2024	REV:	1
Designed by:		File:	
Drawn by:		Scale:	1/4" = 1'-0"
Author:		Project Number:	
Reviewed by:		Project Number:	
Checked by:		Project Number:	
Submitted by:		Project Number:	
Approver:		Project Number:	

RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

SECOND FLOOR POWER PLAN

SHEET NUMBER
E312



SECOND FLOOR POWER PLAN
SCALE = 1/4" = 1'-0"

CONTROL RELAY SCHEDULE

Panel Name: LCP1
Location: OPEN WAREHOUSE-2 118-2
Mounting: Surface
Nema Type: Type 1
Transformer Voltage:
Control Circuit:
AIC Rating: 10,000

Table with 5 columns: Relay #, Description, Panel Circuit, Control Switch, Dimming Type, Programming. Rows 1-20 listing relays for exterior wall packs, lights, signs, and various equipment.

NOTES:
* PROVIDE 5MA GFCl CIRCUIT BREAKER
** PROVIDE ARC-FAULT CIRCUIT BREAKER

PANELBOARD SCHEDULE

PANEL: L2 TYPE: Type 1 VOLTS: 120/208 Y PHASE: 3 WIRES: 4
MOUNTING: SURFACE LOCATION: TELE DATA 201 MAINS: MLO
BUSSING: FED FROM: LMDP AMP: 225 A

Panelboard schedule table for Panel L2 with columns for ITEM, AMPS, POLE, WIRE SIZE, CIR. NO., A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, and ITEM. Includes branch breakers and connected load total.

NOTES:
* PROVIDE 5MA GFCl CIRCUIT BREAKER
** PROVIDE ARC-FAULT CIRCUIT BREAKER

PANELBOARD SCHEDULE

PANEL: L1 TYPE: Type 1 VOLTS: 120/208 Y PHASE: 3 WIRES: 4
MOUNTING: SURFACE LOCATION: MECHANICAL 117 MAINS: MLO
BUSSING: FED FROM: LMDP AMP: 225 A

Panelboard schedule table for Panel L1 with columns for ITEM, AMPS, POLE, WIRE SIZE, CIR. NO., A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, and ITEM. Includes branch breakers and connected load total.

NOTES:
* PROVIDE 5MA GFCl CIRCUIT BREAKER
** PROVIDE ARC-FAULT CIRCUIT BREAKER

PANELBOARD SCHEDULE

PANEL: L81 TYPE: Type 1 VOLTS: 120/208 Y PHASE: 3 WIRES: 4
MOUNTING: SURFACE LOCATION: OPEN WAREHOUSE-2 118-2 MAINS: MLO
BUSSING: FED FROM: LMDP AMP: 225 A

Panelboard schedule table for Panel L81 with columns for ITEM, AMPS, POLE, WIRE SIZE, CIR. NO., A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, and ITEM. Includes branch breakers and connected load total.

NOTES:
* PROVIDE 5MA GFCl CIRCUIT BREAKER
** PROVIDE ARC-FAULT CIRCUIT BREAKER

PANELBOARD SCHEDULE

PANEL: UL1 TYPE: Type 1 VOLTS: 120/208 PHASE: 1 WIRES: 3
MOUNTING: SURFACE LOCATION: DATA 114 MAINS: MLO
BUSSING: FED FROM: UPS1 AMP: 100 A

Panelboard schedule table for Panel UL1 with columns for ITEM, AMPS, POLE, WIRE SIZE, CIR. NO., A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, and ITEM. Includes branch breakers and connected load total.

NOTES:
* PROVIDE 5MA GFCl CIRCUIT BREAKER
** PROVIDE ARC-FAULT CIRCUIT BREAKER

PANELBOARD SCHEDULE

PANEL: H1 TYPE: Type 1 VOLTS: 480/277 Y PHASE: 3 WIRES: 4
MOUNTING: SURFACE LOCATION: OPEN WAREHOUSE-2 118-2 MAINS: MLO
BUSSING: FED FROM: MDP AMP: 225 A

Panelboard schedule table for Panel H1 with columns for ITEM, AMPS, POLE, WIRE SIZE, CIR. NO., A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, and ITEM. Includes branch breakers and connected load total.

NOTES:
* PROVIDE 5MA GFCl CIRCUIT BREAKER
** PROVIDE ARC-FAULT CIRCUIT BREAKER

SWITCHBOARD SCHEDULE

Switchboard: MDP
LOCATION: OPEN WAREHOUSE-2 118-2 VOLTS: 480/277 Y (RATED FOR 480/277) AIC RATING: 18000 A
SUPPLY FROM: TX-1 PHASE: 3 MAINS TYPE: MLO
ENCLOSURE: BUSSING: DOOR-IN-DOOR MAINS RATING: 800 A
200% NEUTRAL 200% NEUTRAL

Switchboard schedule table for Switchboard MDP with columns for CKT, CIRCUIT DESCRIPTION, # OF POLES, AMP RATING, A, B, C, REMARKS. Includes total load and current calculations.

NOTES:
* PROVIDE 5MA GFCl CIRCUIT BREAKER
** PROVIDE ARC-FAULT CIRCUIT BREAKER

PANELBOARD SCHEDULE

PANEL: UL2 TYPE: Type 1 VOLTS: 120/208 PHASE: 1 WIRES: 3
MOUNTING: SURFACE LOCATION: TELE DATA 201 MAINS: MLO
BUSSING: FED FROM: UPS2 AMP: 100 A

Panelboard schedule table for Panel UL2 with columns for ITEM, AMPS, POLE, WIRE SIZE, CIR. NO., A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, and ITEM. Includes branch breakers and connected load total.

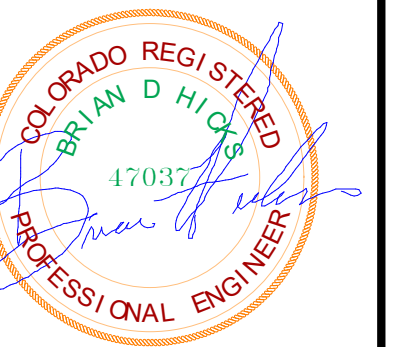
NOTES:
* PROVIDE 5MA GFCl CIRCUIT BREAKER
** PROVIDE ARC-FAULT CIRCUIT BREAKER

SWITCHBOARD SCHEDULE

Switchboard: LMDP
LOCATION: OPEN WAREHOUSE-2 118-2 VOLTS: 120/208 Y AIC RATING: 18000 A
SUPPLY FROM: TX-1 PHASE: 3 MAINS TYPE: MLO
ENCLOSURE: BUSSING: DOOR-IN-DOOR MAINS RATING: 1000 A
200% NEUTRAL 200% NEUTRAL

Switchboard schedule table for Switchboard LMDP with columns for CKT, CIRCUIT DESCRIPTION, # OF POLES, AMP RATING, A, B, C, REMARKS. Includes total load and current calculations.

NOTES:
* PROVIDE 5MA GFCl CIRCUIT BREAKER
** PROVIDE ARC-FAULT CIRCUIT BREAKER



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Revision table with columns: Rev, Description, Date, Author, Checker, Designer, Approver. Shows revision 1 for Engineering Corrections.

Submitted: 02/05/2024
Designer:
Drawn by:
Author:
Scale:
Reviewed by:
Checker:
Submitted by:
Approver:

RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915
POWER SCHEDULES

LIGHT FIXTURE SCHEDULE

LIGHT FIXTURE ABBREVIATION SCHEDULE		PROJECT MANAGER: JAY BEHUNIN	
A.F.F.	ABOVE FINISH FLOOR	CSL	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT
WALL@CLG	WALL MOUNT AT CORNER OF WALL AND CEILING	CSBA	CUSTOM FINISH AS SELECTED BY THE ARCHITECT
CCBA	CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT	SFBA	STANDARD FINISH AS SELECTED BY THE ARCHITECT

LIGHT FIXTURE GENERAL NOTES	
1.	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES AND, CONFIRM CEILING TYPES WITH LIGHT FIXTURE TRIMS. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.
2.	REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
3.	REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, LED DRIVERS, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
4.	CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.
5.	REFER TO LIGHTING PLANS FOR ALL LINEAR FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF LINEAR FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH.
6.	REFER TO LIGHTING PLANS FOR ALL UNDERCABINET FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF THE UNDERCABINET FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH OR TO FIT WITHIN THE MILLWORK. COORDINATE FIXTURE LAYOUT WITH MILLWORK SHOP DRAWINGS PRIOR TO LIGHTING SUBMITTALS.
7.	WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.
8.	PRIOR APPROVALS ARE REQUIRED BEFORE BIDDING THE PROJECT AND SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE...
9.	REFER TO SPECIFICATIONS 20 0500, 26 5100 & 26 5600 (16001, 16510 & 16551).
10.	120

TYPE	DESCRIPTION	MFR.	CATALOG #	VOLTS	TOTAL WATTS	LAMP TYPE	DELIVERED LUMENS	COLOR TEMP	CRI
D1	6" LED DOWN LIGHT AT 4000K WITH GIMBAL SOCKET	CSL	ED35-NIC-35-90-80-1S5	120 V	15.0 VA	LED	1,500	4000 K	80
D2	6" LED DOWN LIGHT AT 4000K	CSL	ED35-NIC-35-90-80-1S5	120 V	15.0 VA	LED	1,500	4000 K	80
D2E	6" LED DOWN LIGHT AT 4000K WITH BAT BACKUP	CSL	ED35-NIC-35-90-80-1S5	120 V	15.0 VA	LED	1,500	4000 K	80
D3	HALO 2" WAFER LIGHT 4000K. INSTALL IN 6" SQUARE TUBE	COOPERHALO	TMB3	120 V	6.8 VA	LED	500	4000 K	80
D4	6" LED DOWN LIGHT AT 4000K WITH ADJUSTABLE LIGHT TRIM	CSL	ED35-NIC-35-90-80-1S5	120 V	14.1 VA	LED	1,500	4000 K	80
H81	2" x 4" HIGH BAY LED TROFFER WITH INTEGRATED OCC	COLUMBIA	PELA-840L-18-B-ED-UJ-ST-NOXHM	120 V	126.0 VA	LED	18,000	3500 K	80
OP1	LED OUTDOOR POLE WITH 4 WAY HEAD, POLE HEIGHT 30'	NLS	VSS-S-75-32-140K-UNV-PE7	277 V	424.0 VA	LED	12,300	4000 K	80
OW3	WALL MOUNTED, LED SCIENCE	RAYON	T631LED-40W-UNV-40K-T4-BZ-PC1-CEM	120 V	40.0 VA	LED	12,300	3500 K	80
OW5	LED EGRESS LIGHT, BAT BACKUP, 6-10 W	RAYON	T250L-EDB-10-UNV-36-BZ-PC-CEM	120 V	10.0 VA	LED	729	4000 K	80
T1	2" x 4" LED TROFFER	COLUMBIA	LCAT24-35MLG-EDU	120 V	36.0 VA	LED	4,971	3500 K	80
T2	2" x 2" LED TROFFER	COLUMBIA	LCAT22-35MLG-EDU	120 V	25.8 VA	LED	3,484	3500 K	80
T2E	2" x 2" LED WITH BACKUP	COLUMBIA	LCAT22-35MLG-EDU-ELL14	120 V	25.8 VA	LED	3,494	3500 K	80
T3	4" LED STRIP LIGHT	CSL	CSL-44-SCS	120 V	30.5 VA	LED	4,274	3500 K	80
T3E	4" LED STRIP LIGHT WITH BACKUP	COLUMBIA	LCL4-35ML-EU	120 V	30.5 VA	LED	4,274	3500 K	80
UC	24" UNDER CABINET FIXTURE, LINE VOLTAGE DIMMABLE 30, 35, 40K COLOR SELECTABLE	CONTECH (DATE)	LPL4243000C-P	120 V	8.4 VA	LED	5,000	3500 K	80
WS1	SINGLE FACE GREEN LED EXIT SIGN, WHITE THERMOPLASTIC, UNIVERSAL MOUNTING, FIELD SELECTABLE CHEVRONS, UNIVERSAL FACES	WAC	WA-41125-3500K-BK	120 V	19.0 VA	LED	640	3500 K	80
X1	WALL MOUNTED, LED SCIENCE	COMPASS	CEG	120 V	5.0 VA	LED			
X2	EXIT BUG EYE COMBO	COMPASS	CCG	120 V	5.0 VA	LED			

LIGHTING SENSOR GENERAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE SENSOR MANUFACTURER FOR PROPER PLACEMENT AND ADJUSTMENT OF OCCUPANCY SENSORS.
- EACH ZONE SHALL HAVE COVERAGE BY OCCUPANCY SENSOR SUCH THAT NO BLIND SPOT EXIST.
- UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE INSTALLATION.
- THE LOCATION AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS AS REQUIRED TO PROPERLY COVER THE RESPECTIVE ROOM.
- PROVIDE DAYLIGHT ZONE CONTROL REQUIREMENTS PER IBC-2015 CODE 2.3.3. LOCATE DAYLIGHT SENSOR(S) PER MANUFACTURER'S RECOMMENDATION AND WHERE REQUIRED WITHIN THE ROOM FOR PROPER COVERAGE.
- PROVIDE OCCUPANCY SENSOR WITH AN ADDITIONAL SET OF DRY CONTACTS FOR HVAC CONTROL AT EACH VAV BOX LOCATION.

LIGHTING GENERAL SHEET NOTES

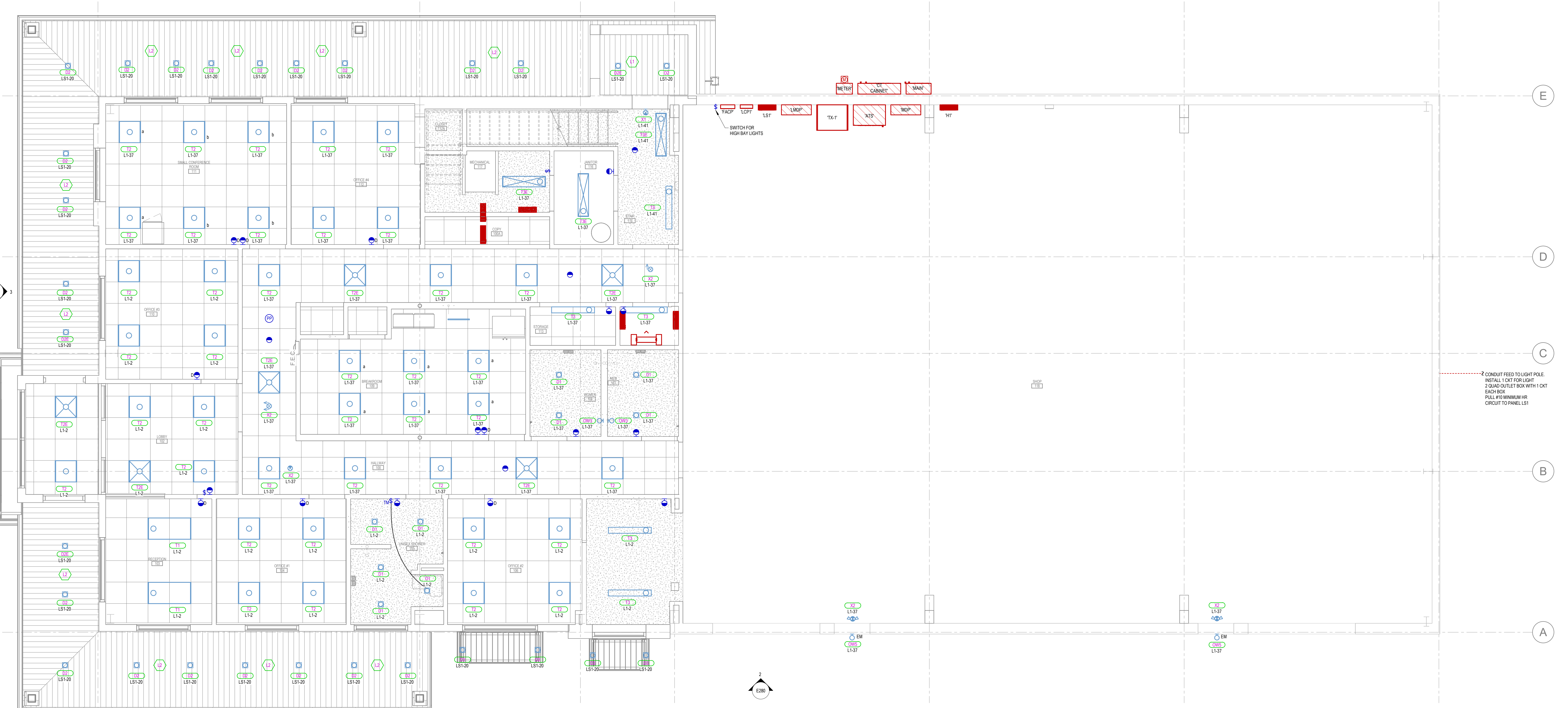
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN, CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS. COORDINATE WITH PAINTING CONTRACTOR FOR PAINTING OF EXPOSED FACEWAY.
- FIELD VERIFY EXACT FIXTURE LENGTHS FOR CONTINUOUS ILLUMINATION FOR COVES AND LINEAR RUNS. PROVIDE CONTINUOUS ILLUMINATION WITH NO MORE THAN A 1" GAP BETWEEN THE END OF THE EDGE OF THE WALL / CEILING AND THE FIXTURE.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF FIXTURES WITHIN MECHANICAL ROOMS.
- ALL ROOM CONTROLLERS AND/OR POWER PACKS SHALL BE INSTALLED IN THE CEILING SPACE DIRECTLY ABOVE THE ENTRY DOOR TO THE SPACE IT IS CONTROLLING.
- ALL UNDERCABINET LIGHTS MUST BE COORDINATED WITH MILLWORK FOR EXACT LENGTHS. ALL UNDERCABINET LIGHTS SHALL BE COORDINATED WITH MILLWORK SHOP DRAWINGS.
- PROVIDE 0-10V DIMMING CONDUCTORS FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE RELAY PANEL SCHEDULE AND/OR WALL STATION CONTROL SEQUENCE.
- SUBSCRIPT ADJACENT TO LIGHT FIXTURE INDICATES CONTROLS. PROVIDE LIGHTING CONTROLS WITH THE REQUIRED NUMBER OF RELAYDIMMERS. PROVIDE ADDITIONAL RELAYDIMMERS FOR DAYLIGHT ZONES AS REQUIRED.

SHEET KEYNOTES

- EXTEND UNSWITCHED LINE TO THE EMERGENCY BATTERY BACKED UP FIXTURES.
- COORDINATE WITH OWNER FOR LIGHTING PLACEMENT. LIGHTS ON LOWER LEVEL ARE INTENDED TO ALIGN WITH THE LIGHTS IN THE UPPER SUN SHADES. OWNER TO PROVIDE SUNSHADES.



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FIRST FLOOR LIGHTING PLAN
 SCALE = 1/4" = 1'-0"

REV.	DATE	DESCRIPTION
1	06/01/2023	Aspt

Submitted by:	02/05/2024	REV: 1
Designer:		
Drawn by:		
Author:		
Reviewed by:		
Checker:		
Submitted by:		
Approver:		

RCH Valley
 Real Color Holdings, LLC
 875 Valley St
 Colorado Springs, CO
 80915

FIRST FLOOR LIGHTING PLAN

SHEET KEYNOTES

L3 WIRING FOR D3 FIXTURES WILL BE BROUGHT TO A J-BOX ABOVE WINDOW. D3 FIXTURES WILL BE INSTALLED IN SUNSHADE MAIN SUPPORT TIRES, AND WILL BE PROVIDED BY OWNER. FIXTURE WHIP WILL ATTACH TO JUNCTION BOX PROVIDED FOR ILLUMINATION. COORDINATE LOCATION OF J-BOX WITH OWNER.



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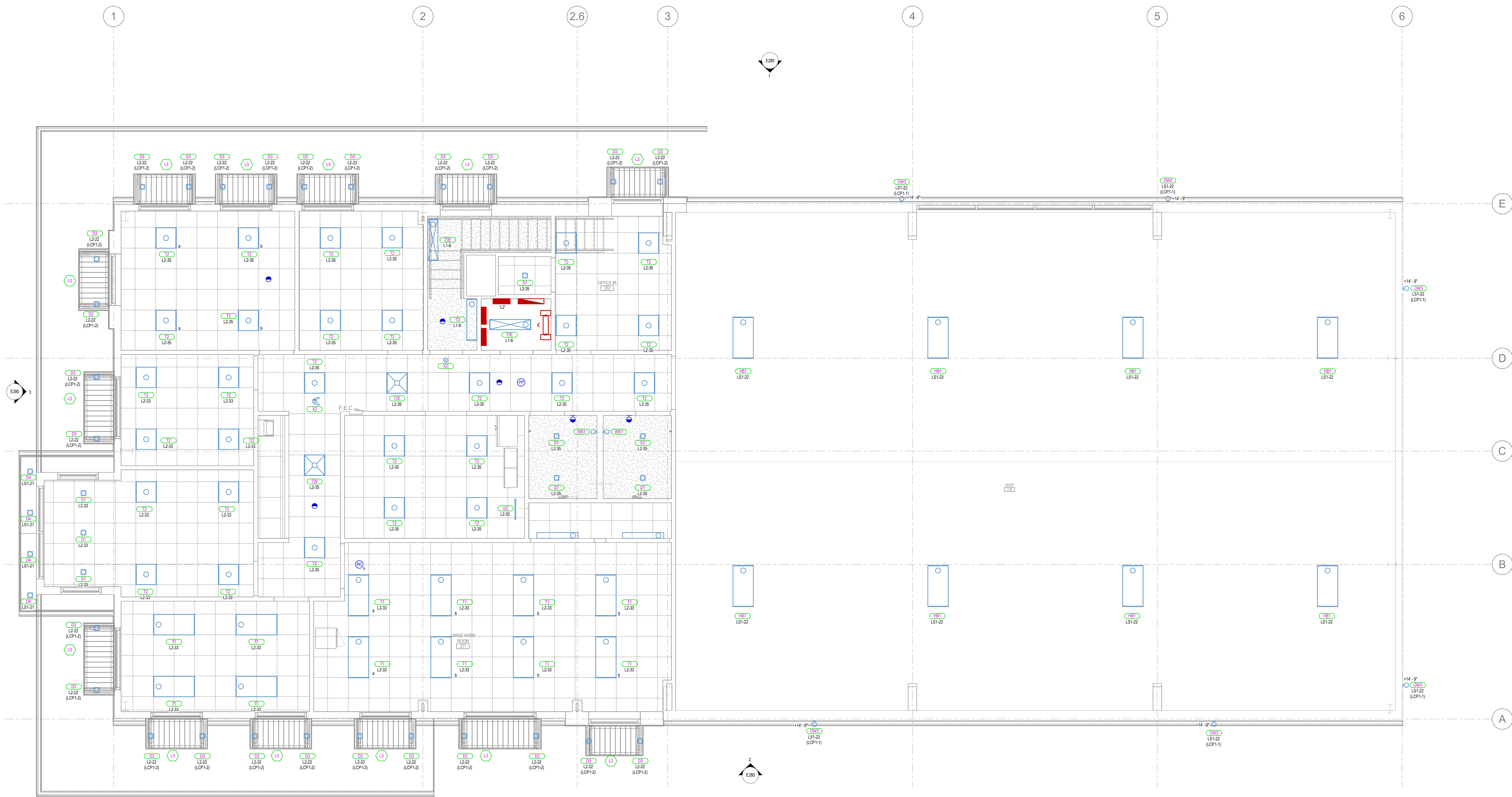
REV.	Date	Description
1	06/01/2023	Revision 1

Submitted:	02/05/2024	REV:	1
Designed by:		File:	
Drawn by:		Scale:	1/4" = 1'-0"
Author:		Reviewed by:	
Checker:		Submitted by:	
Project Number:		Approver:	

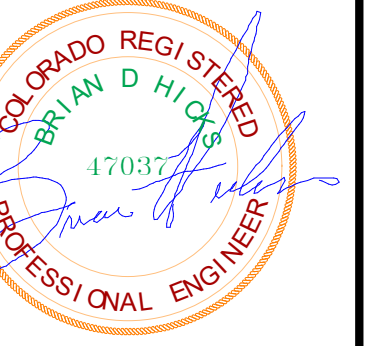
RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
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SECOND FLOOR LIGHTING PLAN

SHEET NUMBER
E212



SECOND FLOOR LIGHTING PLAN
SCALE = 1/4" = 1'-0"



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Rev.	Date	Description

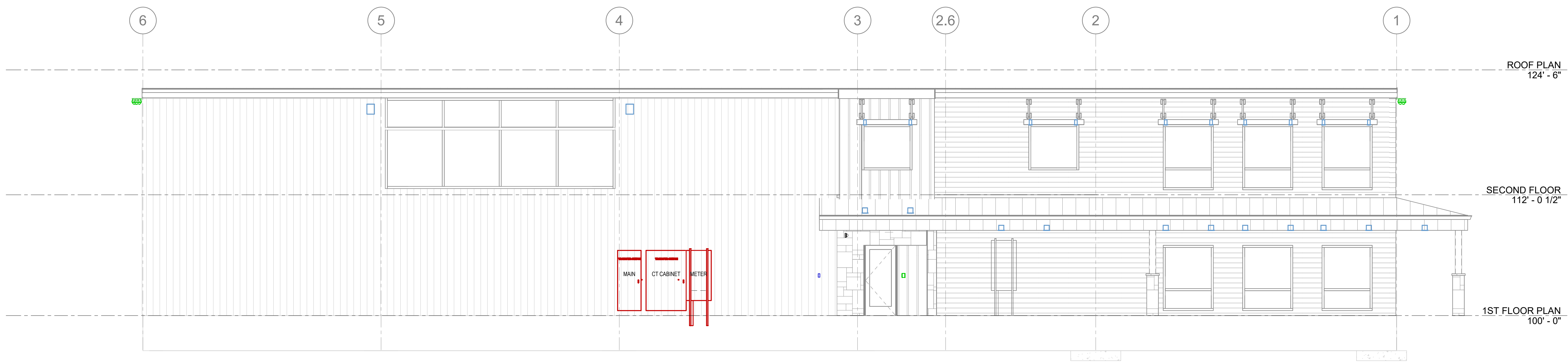
REV:	Submitted:	Scale:	Project Number:
	02/05/2024	3/16" = 1'-0"	

Designed by:	Drawn by:	Reviewed by:	Submitted by:	Approver:

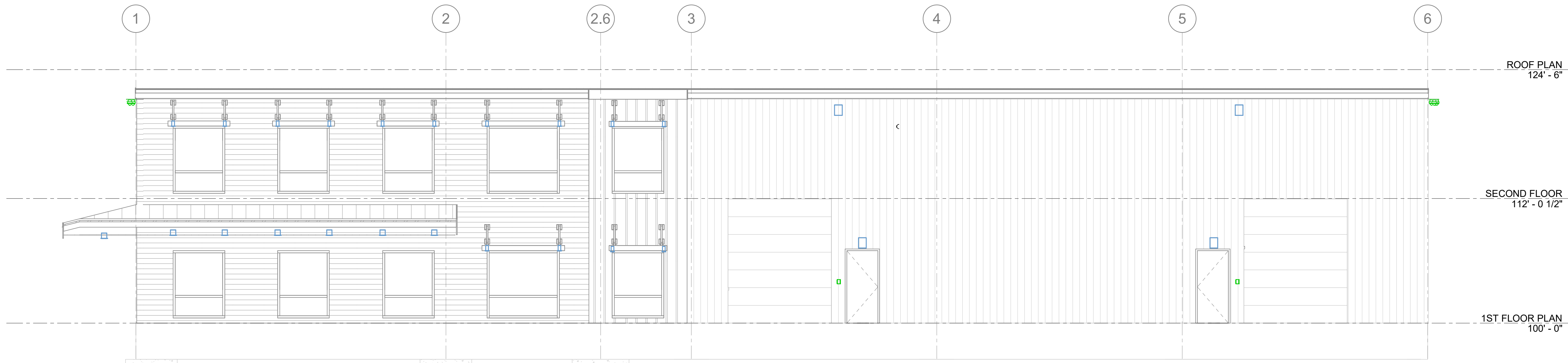
RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

LIGHTING ELEVATION

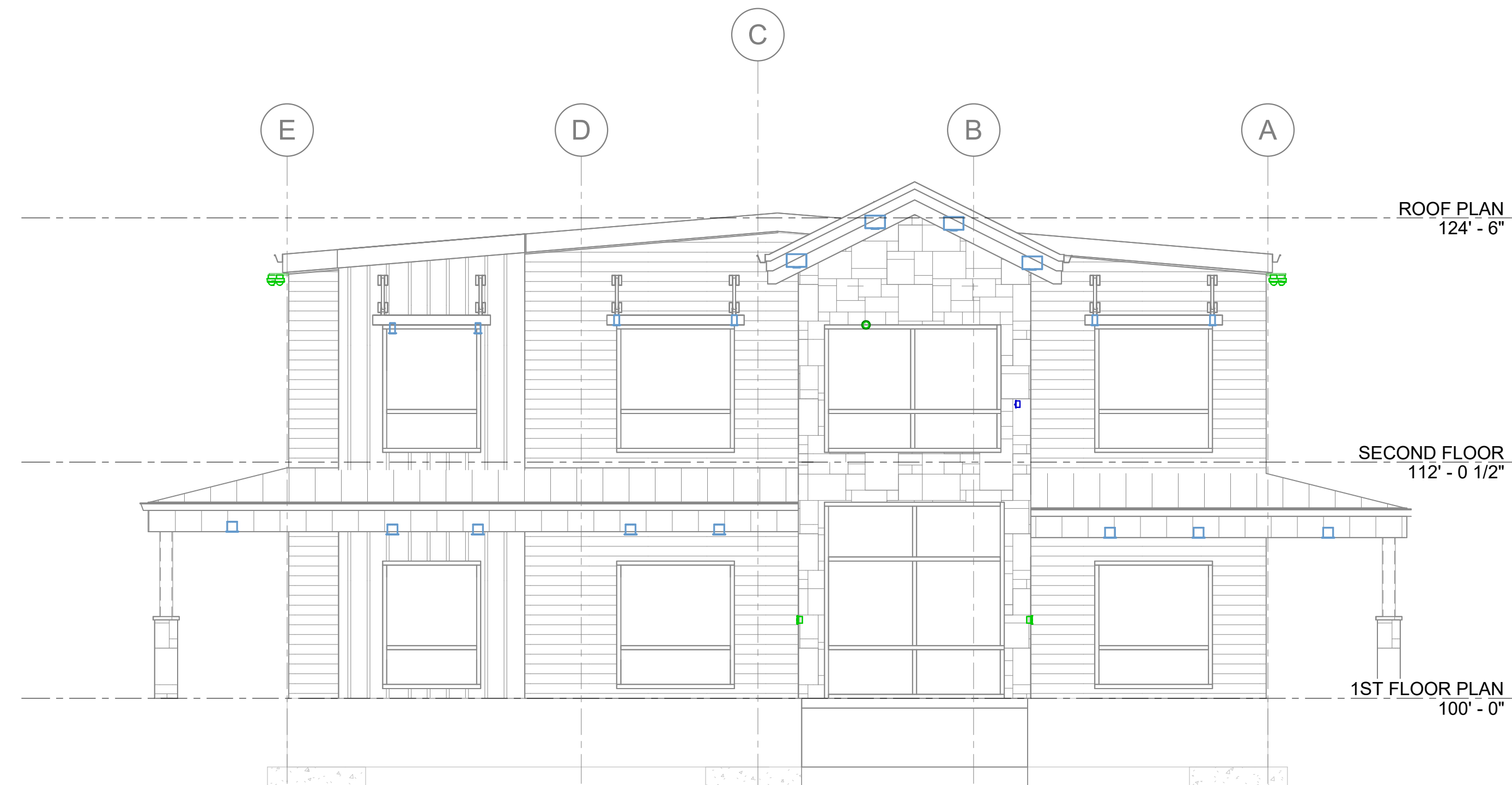
SHEET NUMBER
E280



1 ELEVATION A
SCALE = 3/16" = 1'-0"



2 ELEVATION B
SCALE = 3/16" = 1'-0"



3 ELEVATION C
SCALE = 3/16" = 1'-0"

SYMBOL SCHEDULE

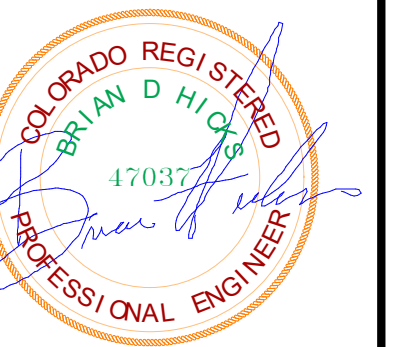
Table with columns: SYMBOL, DESCRIPTION, MOUNTING HEIGHT, NOTES. Includes sections for GENERAL, AUDIOVISUAL, TELECOMMUNICATIONS, SECURITY, and NURSE CALL.

LOW VOLTAGE SCOPE OF WORK

Table with columns: NOTES, LEGEND, DESCRIPTION, FURNISHED BY, INSTALLED BY. Includes sections for GENERAL, AUDIOVISUAL, TELECOMMUNICATIONS, SECURITY, and NURSE CALL.

LOW-VOLTAGE SHEET INDEX

Table with columns: T002, LOW-VOLTAGE SYMBOLS AND NOTES, T200, AUDIOVISUAL SYMBOLS AND NOTES, T500, DATA NETWORKS SYMBOLS AND NOTES, T670, SECURITY SCHEDULES.



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Table with columns: Rev., Description, Date, Appr.

Table with columns: REV., Submitted by, Date, Design by, Drawn by, Author, Reviewed by, Checked by, Submitted by, Approved by.

RCH Valley
Real Color Holdings, LLC
875 Valley St
Colorado Springs, CO
80915

CABLING GROUPS AND CONDUIT SEPARATION SCHEDULE

Table with columns for GROUP, WIRING TYPE, and notes regarding audio and video wiring and conduit separation.

AUDIOVISUAL CABLE AND CONDUIT SCHEDULE

Table with columns for CABLE TYPE, DESCRIPTION, CONDUIT REQUIREMENTS, MANUFACTURER, MODEL NUMBER, and CABLE GROUP.

ABBREVIATIONS INDEX

Table with columns for ABBREV., NUMBER, DESCRIPTION, and MECH. DESCRIPTION.

AUDIOVISUAL SYMBOL SCHEDULE

Table with columns for SYMBOL, DESCRIPTION, J-BOX, CONDUIT, MOUNTING HEIGHT, CABLE TYPE, and NOTES.

AUDIOVISUAL GENERAL NOTES

- Notes 1 through 21 detailing electrical contractor responsibilities, integration requirements, and equipment specifications.

AUDIOVISUAL SHEET INDEX

Table with columns for T200 and AUDIOVISUAL SYMBOLS AND NOTES.

Professional Engineer seal for BNA CONSULTING, including contact information for 4225 Lake Park Blvd. Suite 275.

Revision table with columns for REV., Description, Date, and Author.

Project metadata including Submitted (02/05/2024), Designer, Author, Reviewed by, and Project Number (274100).

Project identification: RCH Valley Real Color Holdings, LLC, 875 Valley St, Colorado Springs, CO 80915. SHEET NUMBER T200.

STRUCTURED CABLING SYMBOL SCHEDULE

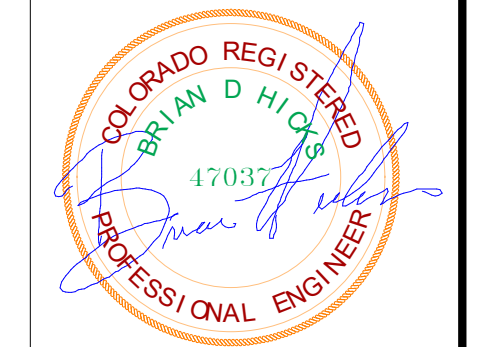
NOTES:				GENERAL SCHEDULE NOTES:			
1. COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.				A. DEVICE WITH A DASHED OUTLINE AROUND THE SYMBOL INDICATE DEVICE IS CEILING MOUNTED.			
2. HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISHED FLOOR.				B. DEVICE WITH A SOLID OUTLINE AROUND THE SYMBOL INDICATE DEVICE IS FLOOR MOUNTED.			
3. HEIGHT MEASURED TO TOP OF THE BOX FROM FINISHED FLOOR.				C. ARROW INDICATES FRONT OF EQUIPMENT RACK.			
4. DASHED LINE INDICATES EQUIPMENT CLEARANCES.							
STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS							
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	CONDUIT RUN CONCEALED IN WALL OR CEILING				CONDUIT/CIRCUIT CONTINUATION		
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND				CABLE TRAY (BASKET/LADDER) [WIDTH X HEIGHT]	AS NOTED @ #'-#"	2.
	CONDUIT UP				EQUIPMENT NUMBER		
	CONDUIT DOWN				ARCHITECTURAL ROOM NUMBER		
	CONDUIT STUB LOCATION	CAP CONDUIT			DIAGRAM CALLOUT TAG		
TELECOMMUNICATIONS							
	WALL PHONE	+6" OR AS NOTED	2.		WIRELESS ACCESS POINT, TWO CABLES SOLID = WALL, DASHED = CEILING	WALL / CEILING	11.
	DATA OUTLET, ONE CABLE	+18" OR AS NOTED	2. 9. 11.		SPLITTER	ABOVE CEILING	
	DATA OUTLET, TWO CABLES	+18" OR AS NOTED	2. 9. 11.		VIA	ABOVE CEILING	
	DATA OUTLET, THREE CABLES	+18" OR AS NOTED	2. 9. 11.		FIBER BDA	ABOVE CEILING	
	DATA OUTLET, "X" INDICATES QUANTITY	+18" OR AS NOTED	2. 9. 11.		ANTENNA PS = PUBLIC SAFETY COM = CELLULAR/COMMERCIAL	CEILING	
	TELEVISION OUTLET	+18" OR AS NOTED	9. 11.				

STRUCTURED CABLING GENERAL NOTES

- HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE. ALL DEVICES OUTLETS SHALL BE MOUNTED VERTICALLY.
- MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN.
- ALL DEVICES INDICATED TO BE INSTALLED AT DIFFERENT MOUNTING HEIGHTS AND LOCATED WITHIN ONE STUD SPACE FROM EACH OTHER SHALL ALIGN VERTICALLY, ON THE SAME SIDE OF THE STUD. WHERE WALL MOUNTED TELEPHONES OCCUR OVER LIGHT SWITCHES, VOLUME CONTROLS, ETC. OFFSET ONE STUD SPACE.
- ALL EXPOSED RACEWAYS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS SUCH THAT THEY FOLLOW STRUCTURAL SURFACE CONTOURS AND SHALL BE INSTALLED SUCH THAT THEY DO NOT OBSTRUCT PASSAGEWAYS. MULTIPLE RACEWAYS SHOULD BE INSTALLED GROUPED TOGETHER. THE LOCATION OF THESE RACEWAYS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. (EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL.)
- ALL BACK BOXES SHALL BE FLUSH MOUNTED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND BACK BOXES IN POURED CONCRETE, MASONRY, AND GYP WALLS.
- DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL CONDITIONS AT THE BUILDINGS. THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. HOWEVER, THIS DOES NOT RELIEVE ANY SUB-CONTRACTOR FROM COORDINATING HIS WORK WITH ALL OTHER TRADES AND FROM ADJUSTING HIS WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING A BID TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT.
- COORDINATE AND ADJUST ALL WORK BETWEEN TRADES AND EXISTING CONDITIONS IN ORDER TO ACCOMPLISH A NEAT, INTEGRATED AND EFFICIENT INSTALLATION WHICH INCLUDE BUT IS NOT LIMITED TO:
 - EXAMINE THE CONTRACT DOCUMENTS OF ALL TRADES (I.E. THE ARCHITECTURAL REFLECTED CEILING PLAN, MECHANICAL HVAC DRAWINGS, ELECTRICAL LIGHTING PLAN, TECHNOLOGY PLAN, FIRE PROTECTION PLAN, ETC.)
 - COORDINATE NECESSARY EQUIPMENT, FIXTURES, ETC. SO THAT THE FINAL INSTALLATION IS COMPATIBLE WITH THE MATERIALS AND EQUIPMENT OF THE OTHER TRADES.
 - THIS CONTRACTOR SHALL ASSIST THE DIVISION 21, 22 AND 23 CONTRACTOR IN PREPARING SHOP DRAWINGS FOR COORDINATING INSTALLATION OF ALL WORK (I.E. LOCATING ALL CEILING CLEARANCES, CABLE TRAY, CLEARANCES THROUGHOUT, ETC.)
- ALL COMMUNICATIONS RACEWAY AND PATHWAYS INCLUDING BUT NOT LIMITED TO CONDUIT, SLEEVES, CABLE TRAY, J-HOOKS SHALL BE INSTALLED TO MINIMIZE UNNECESSARY CABLE LENGTHS AND MAINTAIN INDUSTRY STANDARD LENGTH LIMITATIONS FOR HORIZONTAL CABLE DISTRIBUTION (I.E. CATEGORY CABLING). NO HORIZONTAL CABLE LENGTH (PERMANENT LINK) SHALL EXCEED 90 METERS (295 FEET).
- ALL COMMUNICATIONS CONDUIT, CABLE TRAYS, LADDER RACKS AND EQUIPMENT RACKS SHALL BE BONDED TO BUILDING GROUND SYSTEM PER NEC 250.
- ALL TELE/DATA CONDUIT AND OTHER RACEWAY INFRASTRUCTURE SHALL HAVE NO LESS THAN 30% SPARE CAPACITY ABOVE THE NEC MINIMUM FILL RATIOS.
- ALL RISER CONDUIT SHALL BE STUBBED A MINIMUM OF 2' AFF. PROVIDE A 2" CURB IF SLAB BLOCK-OUT IS USED RATHER THAN SLEEVES. SERVICE PROVIDER AND UNDERGROUND CONDUIT SHALL BE STUBBED A MINIMUM OF 4' AFF.
- ALL UNDERGROUND COMMUNICATIONS CONDUIT SHALL HAVE METALLIC LOCATOR TAPE.
- ENSURE THAT ALL CABLE TRAY INSTALLED COMPLIES WITH NEC 392. ONCE ALL CABLING HAS BEEN INSTALLED, CONTRACTOR SHALL PROVIDE AVAILABLE CABLE FILL DOCUMENTATION TO OWNER.
- REFER TO OWNER HEATMAPS FOR ALL WIRELESS ACCESS POINT LOCATIONS. REFER TO RISER DIAGRAM AND SPECIFICATION 271500 FOR ADDITIONAL REQUIREMENTS.
- COORDINATE ALL FURNITURE TERMINATION LOCATIONS WITH FURNITURE SHOP DRAWINGS AND INSTALLER PRIOR TO RUSHING. DEVICE LOCATIONS SHOWN ARE FOR TECHNICAL INFORMATION ONLY. PROVIDE FURNITURE BOXES COMPATIBLE WITH FURNITURE SYSTEM.

STRUCTURED CABLING SHEET INDEX

1500	DATA NETWORKS SYMBOLS AND NOTES
1570	DATA NETWORKS SCHEDULES



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Rev.	Date	Description

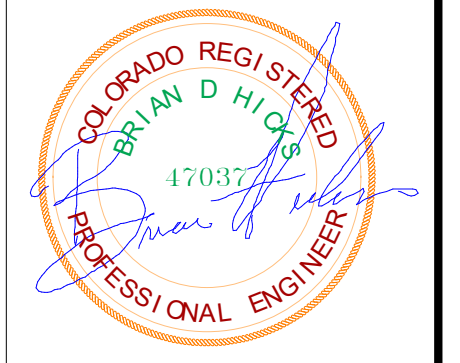
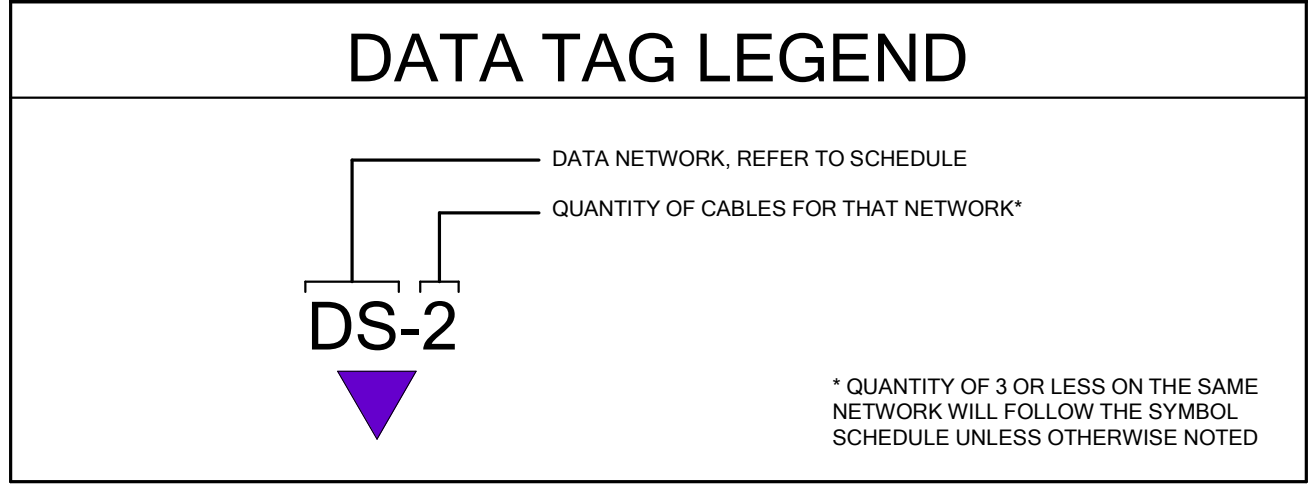
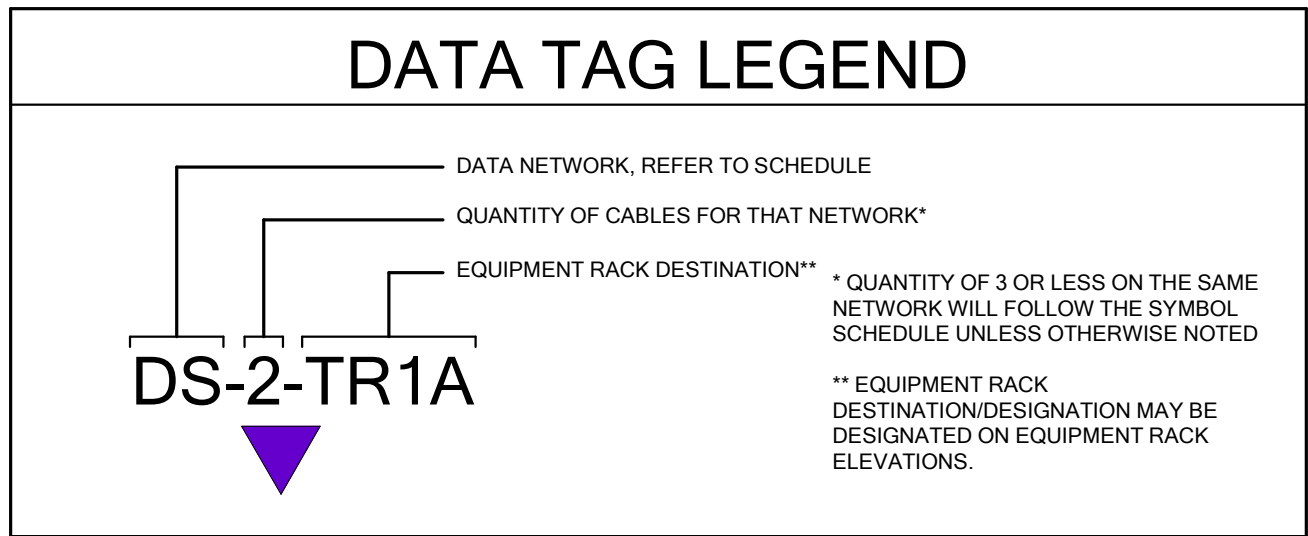
Submitted:	02/05/2024
Designed by:	Designer
Drawn by:	Author
Reviewed by:	Checker
Submitted by:	Approver
File:	
Scale:	
Project Number:	
Project Number:	

RCH Valley
Real Color Holdings, LLC
 875 Valley St
 Colorado Springs, CO
 80915

DATA EQUIPMENT RACK SCHEDULE					
ROOM NAME	ROOM NUMBER	IDENTIFIER	RU'S	MOUNTING TYPE	NOTES

DATA NETWORK SCHEDULE BY AREA						
DATA TYPE	SYSTEM	NO. OF BOXES	CABLE QUANTITY	TYPE OF CABLE	RM. NAME	RM. NUMBER
		0	0			
SC	AUDIOVISUAL NETWORK	44	38.4	CAT-6		
D	DATA NETWORK	11	22	CAT-6		
		0	0		BREAKROOM	<varies>
D	DATA NETWORK	7	14	CAT-6	BREAKROOM	<varies>
		0	0		CLOSET	202A
		0	0		COPY	<varies>
SC	AUDIOVISUAL NETWORK	6	5.6	CAT-6	COPY	200A
D	DATA NETWORK	4	7	CAT-6	COPY	<varies>
		0	0		DATA	114
		0	0		FIRE RISER	120
		0	0		HALLWAY	<varies>
SC	AUDIOVISUAL NETWORK	10	8	CAT-6	HALLWAY	100
		0	0		JANITOR	116
		0	0		LARGE WORK ROOM	211
D	DATA NETWORK	11	22	CAT-6	LARGE WORK ROOM	211
		0	0		LOBBY	102
SC	AUDIOVISUAL NETWORK	2	1.6	CAT-6	LOBBY	102
D	DATA NETWORK	1	2	CAT-6	LOBBY	102
		0	0		MECHANICAL	117
		0	0		MEN	<varies>
		0	0		OFFICE #1	104
D	DATA NETWORK	4	8	CAT-6	OFFICE #1	104
		0	0		OFFICE #2	106
D	DATA NETWORK	4	8	CAT-6	OFFICE #2	106
		0	0		OFFICE #3	110
D	DATA NETWORK	5	10	CAT-6	OFFICE #3	110
		0	0		OFFICE #4	112
D	DATA NETWORK	3	6	CAT-6	OFFICE #4	112
		0	0		OFFICE #5	202
D	DATA NETWORK	3	6	CAT-6	OFFICE #5	202
		0	0		OFFICE #6	206
D	DATA NETWORK	4	8	CAT-6	OFFICE #6	206
		0	0		OFFICE #7	207
D	DATA NETWORK	6	12	CAT-6	OFFICE #7	207
		0	0		OFFICE #8	208
D	DATA NETWORK	4	8	CAT-6	OFFICE #8	208
		0	0		OFFICE #10	210
D	DATA NETWORK	4	8	CAT-6	OFFICE #10	210
		0	0		OPEN WAREHOUSE-1	118-1
SC	AUDIOVISUAL NETWORK	5	5	CAT-6	OPEN WAREHOUSE-1	118-1
		0	0		OPEN WAREHOUSE-2	118-2
		0	0		RECEPTION	103
D	DATA NETWORK	4	9	CAT-6	RECEPTION	103
		0	0		SMALL CONFERENCE ROOM	111
D	DATA NETWORK	4	8	CAT-6	SMALL CONFERENCE ROOM	111
		0	0		Space	132
D	DATA NETWORK	3	6	CAT-6	Space	132
		0	0		STAIR	<varies>
SC	AUDIOVISUAL NETWORK	2	1.6	CAT-6	STAIR	115
D	DATA NETWORK	1	2	CAT-6	STAIR	200
		0	0		STORAGE	<varies>
		0	0		TELE DATA	201
D	DATA NETWORK	1	2	CAT-6	TELE DATA	201
		0	0		UNISEX SHOWER	105
		0	0		VESTIBULE	101
		0	0		WOMEN	<varies>
GRAND TOTAL		153	228.2			

DATA NETWORK SCHEDULE BY LEVEL					
DATA TYPE	SYSTEM	NO. OF BOXES	CABLE QUANTITY	PATCH PANEL	TYPE OF CABLE
		0	0		
SC	AUDIOVISUAL NETWORK	36	31.2	48	CAT-6
D	DATA NETWORK	8	16	48	CAT-6
		0	0		
SC	AUDIOVISUAL NETWORK	14	12.6	48	CAT-6
D	DATA NETWORK	35	71	48	CAT-6
		0	0		
SC	AUDIOVISUAL NETWORK	19	16.4	48	CAT-6
D	DATA NETWORK	41	81	48	CAT-6
GRAND TOTAL		153	228.2		

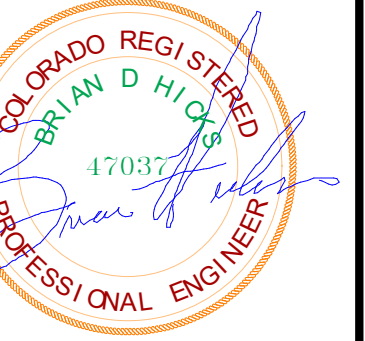


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REV.	Submitted:	Designed by:	Drawn by:	Reviewed by:	Submitted by:
	02/05/2024	Designer	Author	Checker	Approver
	File:	Scale:	Project Number:	Project Number:	

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REV.	Date	Description
1	06/01/2023	Revision 1

Submitted:	02/05/2024
Designed by:	Author
Drawn by:	Checker
Reviewed by:	Approver
Scale:	1/4" = 1'-0"
Project Number:	

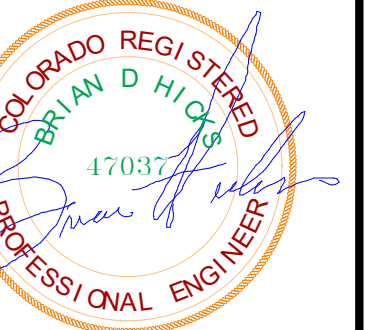
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Real Color Holdings, LLC
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FIRST FLOOR SYSTEMS PLAN

SHEET NUMBER
E411



FIRST FLOOR SECURITY PLAN
SCALE = 1/4" = 1'-0"



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Rev	Description	Date
1	Revision 1	06/01/2023

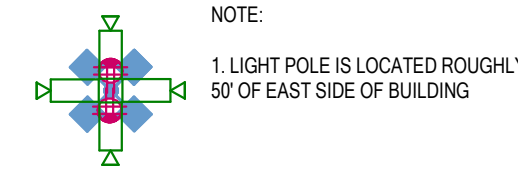
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Drawn by:	
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Reviewed by:	
Checker:	
Scale:	As indicated
Project Number:	
Project Number:	

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SECOND FLOOR SYSTEMS PLAN

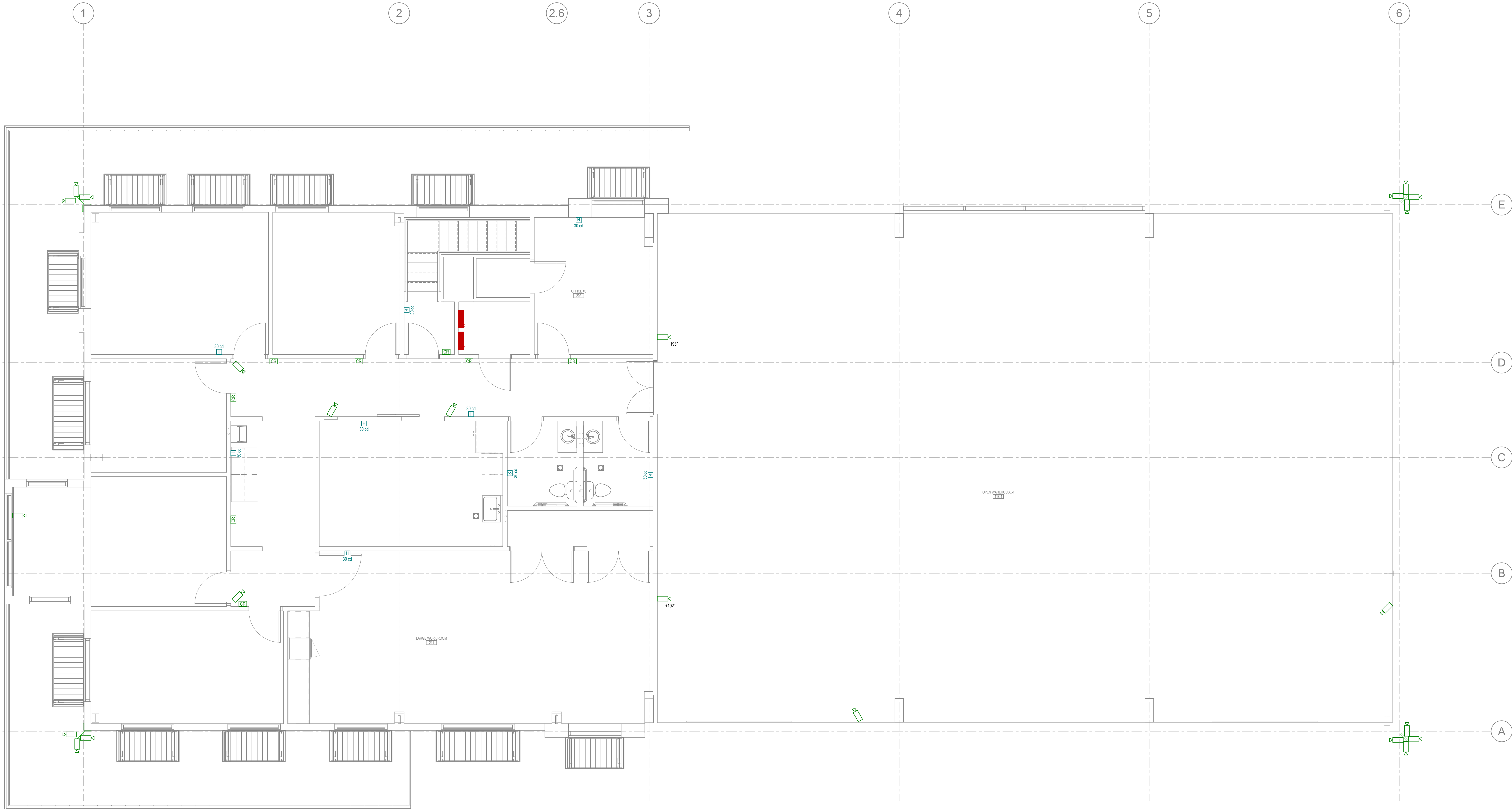
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Drawn by:	
Author:	
Reviewed by:	
Checker:	
Scale:	As indicated
Project Number:	
Project Number:	

SHEET NUMBER
E412



1 ENLARGED SITE LIGHT POLE DETAIL
SCALE = 1/8" = 1'-0"

NOTE:
1. LIGHT POLE IS LOCATED ROUGHLY
50' OF EAST SIDE OF BUILDING



SECOND FLOOR SECURITY PLAN
SCALE = 1/4" = 1'-0"

