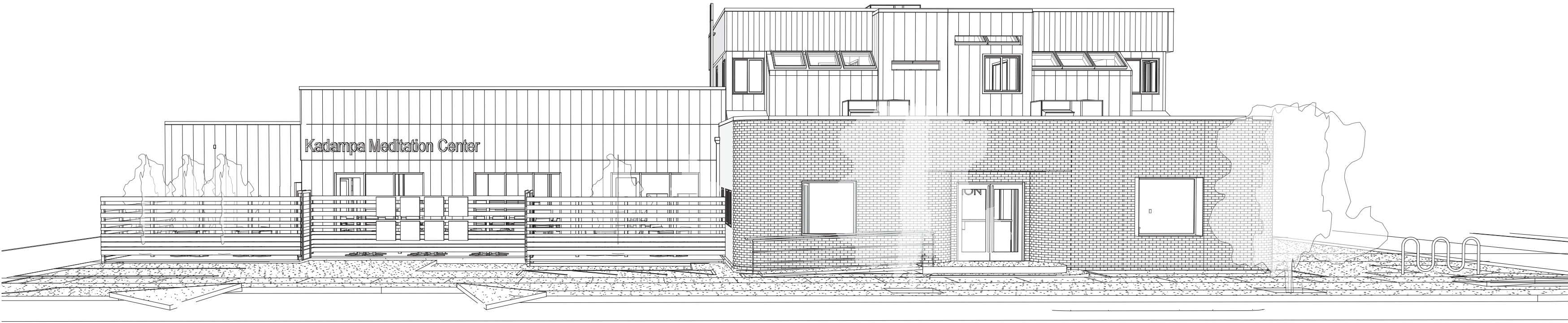


KADAMPA MEDITATION CENTER

Mixed Use Renovation



PROPERTY DESCRIPTION

4840 S 29TH AVE. DENVER, CO 80212
PARCEL SIZE: 8,750 SQFT OR 0.201 ACRES
PARCEL: 02303-20-001-000
ZONING: U-MX-3
LOTS: 1,2 AND 3
SUBDIVISION:
LEGAL DESCRIPTION:
LOTS 1 TO 3, INCLUSIVE, GEORGE W OLINGER RESUBDIVISION OF BLOCK 13, ECKHART PLACE, CITY AND COUNTY OF DENVER, STATE OF COLORADO

A PARCEL OF LAND SITUATED IN THE SOUTHWEST 1/4 OF SECTION 30, TOWNSHIP 3 SOUTH, RANGE 68 WEST OF THE 6TH P.M.

VICINITY PLAN



PROJECT DIRECTORY

OWNER
KADAMPA MEDITATION CENTER
4840 S 29TH AVE. DENVER, CO 80212
CONTACT: KATE FRANKLIN - ADMINISTRATOR
EMAIL: AD@MEDITATIONINCOLORADO.ORG
PHONE: 720-370-9046

ARCHITECT
JUNIPER ROAD STUDIOS, LLC
5941 MIDDLEFIELD ROAD, STE 200 LITTLETON, CO 80123
CONTACT: ROBERT MARKLEY
EMAIL: RMARKLEY@JUNIPERROADSTUDIOS.COM
PHONE: 208-602-3763

STRUCTURAL
McCLISH STRUCTURAL CONSULTING
CONTACT: ANDREW McCLISH
EMAIL: AMcCLISH@MCCSTRUCTURAL.COM
PHONE: 720-773-1338

MEP CONSULTANT
RAMIREZ, JOHNSON AND ASSOCIATES
3295 BLAKE ST. #104 DENVER, CO 80205
CONTACT: CHRIS WOOD
EMAIL: CHRIS@RJA-ENG.COM
PHONE: 720-598-0774

GENERAL CONTRACTOR
HIVE CONSTRUCTION INC.
44 INVERNESS DR. EAST -BLDG B ENGLEWOOD, CO 80112
CONTACT: JOEL BOWERS
EMAIL: JBOWERS@HIVE-CO.COM
PHONE: 303-292-0554

FIRE SPRINKLERS - TBD - TO BE DEFERRED SUBMITTAL BY LICENSED CONTRACTOR UNDER DIRECTION OF GENERAL CONTRACTOR

DESIGN CRITERIA

R301.2 (1) Climatic & Geographic Design Criteria for the City of Denver per amendments of 2019 DBC shall be as follows:

Floor Live Load: 100 psf
Roof Live Load: 35 psf
Roof Snow Load: 35 psf
Snow Exposure Factor, Ce: 1
Snow Load Importance Factor: 1
Thermal Factor, Ct: 1
Wind speed exp C: 115 mph
Wind Importance Factor, I: 1.0
Occupancy Category: II
Wind Exposure: C
Internal Pressure Coeff.: +/- 0.18
Components and Cladding: Per ASCE 7
Parapet Pressure: 72 PSF

Topographic Effects: no
Special Wind: Region: no
Wind-borne Debris Zone: no
Seismic Design Category: B
Weathering: Severe
Frost depth: 36 inches
Termite: Slight/Moderate
Winter Design Temperature: 1 degree C
Ice Barrier Under Layment Required: No
Flood Hazard: 1978
Air Freezing Index: 712
Mean Annual Temp: 40-45 degrees F

PROJECT DESCRIPTION

EXISTING 2 STORY BUILDING OF 6,270 SF @ CORNER OF XAVIER AND W. 29TH AVE.

PROPOSED - PER EGRESS & CODE ANALYSIS PLANS G02.01 MOST RESTRICTIVE OCCUPANCY WILL BE A-3 AS MOST RESTRICTIVE W/ NON-SEPARATED OCCUPANCIES OF B, M, R-3 USES. R-3 OCCUPANCY INCLUDES 1 APARTMENT AND 6 TOTAL SLEEPING UNITS OF A CONGREGATE LIVING WITH A COMMON KITCHEN & LIVING AREA. THIS INCLUDES ONE ADA UNIT AND ONE OF TWO SINGLE USER RESIDENTIAL BATHROOMS INCLUDING SHOWERS AS ADA COMPLIANT. MERCANTILE CONSIST OF SMALL BOOKCASE SPACE OFF LOBBY AREA, BUSINESS INCLUDES OFFICE SPACE, SMALL MEETING SPACE AND ACCESSORY USE AREAS TO THE PRIMARY MEDITATION SPACE. FURTHER DETAILS IN CODE ANALYSIS/EGRESS PLAN.

FURTHER CLARIFICATION OF BUILDING USE PER OWNER/TENANT "Kadampa Meditation Center Colorado is a 501(c)3 nonprofit religious organization (EIN: 20-4632678) that has been operating for 20 years. We are a spiritual community where everybody is welcome and can learn to practice Kadampa Buddhist meditations and use wisdom to solve our daily problems, grow spiritually and transform our world. Based on the books of the contemporary Buddhist master, Venerable Geshe Kelsang Gyatso and the lineage of Kadampa Buddhist masters, KMC CO presents Buddha's teachings in an authentic and accessible manner that can easily be integrated into busy modern life. We are apart of the International Kadampa Buddhist Union and are accredited through them.

The purpose of our planned renovation is so that we can better serve our Denver community. Over 90% of our budget is spent on programming, so that we are giving directly back to the community, and offering affordable classes, while also turning no one away due to financial constraints. We do offer people the ability to become supporters but anyone can come to our classes, regardless of their religion or affiliation or income.

Our building has 3 sections; the registration/ bookstore area and offices, the large meditation room and then low income residences for staff/volunteers. We have 3-4 people on our staff who receive a small stipend of \$290/month and room and board in exchange for working for the center. We plan to have one apartment for our main teacher, who needs more privacy. Then, we will have 6 bedrooms with shared bathrooms and kitchen. 3 of these rooms will be for stipended administrative people who run the center. The other 3 are for people who need low cost housing and will help volunteer to run our classes and assist. This works very well for us, as it allows people to work for the community and be able to afford to live in Denver on a limited income (we have many senior or low income people who live with us), while also keeping our costs down, so we can charge less for classes, making them affordable to the community." - Kate Franklin, Administrative Director for Kadampa Meditation Center Colorado

STRUCTURE SIZE

PRIMARY STRUCTURE	EXISTING	PROPOSED	TOTAL
CONDITIONED SPACE (floor area only)	1,455 SF	135 SF	1,590 SF
UPPER LEVEL	4,725 SF	0 SF	4,725 SF
MAIN LEVEL			
CONDITIONED TOTAL	6,180 SF	135 SF	6,315 SF
UNCONDITIONED SPACE			
GARAGE - DETACHED (existing gets Demo'd)	0 SF	0 SF	0 SF
OUTDOOR SPACE	0 SF	663 SF	663 SF
UNCONDITIONED TOTAL	0 SF	663 SF	663 SF

See Site Plan for lot coverage calcs.

SHEET INDEX

Sheet Number	Sheet Name	Current Revision Date
G00.00	Cover Page	11/25/22
G00.01	Perspectives	4/08/22
G00.02	General Notes	
G02.00	Zoning Site Plan	8/01/22
G02.01	Zoning, Egress & Code Analysis Plans	6/29/22
G03.00	Accessibility Standards	
G04.00	General Specifications	
G04.01	General Specifications	
G04.02	General Specifications	
G04.03	General Specifications	
G05.00	Comcheck	
G05.01	Comcheck (cont.)	
V00.01	Improvement Survey Plat	6/17/22
AD1.00	Site Demolition Plan	11/21/22
AD1.01	Main Level Demolition	4/08/22
AD1.02	Upper Level Demolition	4/08/22
A00.00	Existing Site Plan	8/01/22
A00.01	Site Plan	11/21/22
A00.10	Site Details	11/21/22
A01.01	Architectural Floor Plan	11/25/22
A01.02	Lvl 2 Architectural Floor Plan	11/25/22
A01.03	Roof Plan	4/08/22
A02.01	Reflected Ceiling Plan	6/29/22
A02.02	Lvl 2 Reflected Ceiling Plan	6/29/22
A03.01	Electrical Plan	6/29/22
A03.02	Lvl 2 Electrical Plan	6/29/22
A04.01	Finish Floor Plans	4/08/22
A04.02	Lvl 2 Finish Floor Plan	4/08/22
A04.03	Finish Schedule	6/29/22
A05.01	Enlarged Plans	6/29/22
A06.00	Building Elevations	11/25/22
A06.01	Building Elevations	6/29/22
A07.00	Building Sections	6/29/22
A08.00	Wall Sections	6/29/22
A09.00	Wall Partitions	6/29/22
A10.50	Roof Details	
A11.00	Interior Elevations	11/25/22
A11.01	Interior Elevations	11/25/22
A11.02	Interior Elevations	11/25/22
A12.05	Interior Details	
A13.00	Equip. & Plumbing Schedules	8/29/22
A13.01	Door Schedule & Hardware Sched.	11/25/22
A13.02	Door Hardware Schedule	
A13.03	Window Schedule	11/25/22
S1.1	General Notes	8/16/22
S1.2	General Notes Con't 1	8/16/22
S1.3	General Notes Con't 2	8/16/22
S1.4	General Notes Con't 3	10/20/22
S2.1	Main Level	8/16/22
S3.0	Roof Plan	8/16/22
S4.1	Structural Details	8/16/22
S4.2	Structural Details Con't 1	8/16/22
S4.3	Structural Details Con't 2	8/16/22
MP0.0	Mechanical And Plumbing Legend	6/14/22
MP0.1	Mechanical And Plumbing Specifications	
MP0.2	Comcheck	6/14/22
MP0.3	Mechanical And Plumbing Schedules	6/14/22
MP0.4	Mechanical And Plumbing Details	6/14/22
MP0.5	Mechanical And Plumbing Details	6/14/22
MP0.6	Mechanical And Plumbing Details	6/14/22
M1.0	First Floor Mechanical Plans	6/14/22
M1.1	Second Floor Mechanical Plans	6/14/22
M1.2	Roof Mechanical Plans	
P1.0	First Floor Water And Gas Plumbing Plans	6/14/22
P1.1	Second Level Water And Gas Plumbing Plans	6/14/22
P1.2	Roof Water And Gas Plumbing Plans	
P2.0	First Floor Waste And Vent Plumbing Plans	6/14/22
P2.1	Second Floor Waste And Vent Plumbing Plans	
ED1.0	1st Floor Electrical Demolition Plan	6/14/22
ED1.1	2nd Floor Electrical Demolition Plan	
E0.0	Electrical Legend	
E0.1	Electrical Specifications	
E0.2	Electrical Comcheck	
E0.3	Electrical One-Line Diagram & Schedules	
E0.4	Electrical One-Line Diagram & Schedules	
E1.0	1st Floor Power Plan	6/14/22
E1.1	2nd Floor Power Plan	6/14/22
E2.0	1st Floor Lighting Plan	6/14/22
E2.1	2nd Floor Lighting Plan	6/14/22

BUILDING CODES

2018 IBC
2018 IRC
2020 NEC
2018 IPC
2018 IMC
2018 IBC
2018 IFC
2018 IECC
2019 DBC
2010 DZC
2018 IFGC

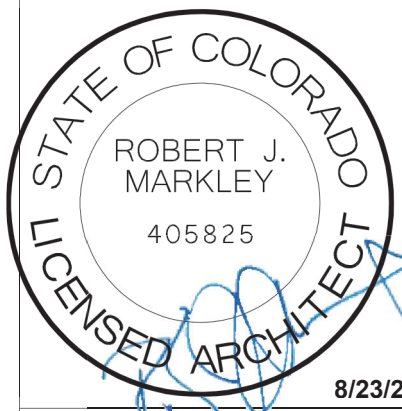
INTERNATIONAL BUILDING CODE
INTERNATIONAL RESIDENTIAL CODE
w/ STATE OF COLORADO ADOPTED VERSION
INTERNATIONAL PLUMBING CODE
INTERNATIONAL MECHANICAL CODE
INTERNATIONAL EXISTING BUILDING CODE
INTERNATIONAL FIRE CODE
INTERNATIONAL ENERGY CONSERVATION CODE
DENVER BUILDING AND FIRE CODE
DENVER ZONING CODE
INTERNATIONAL FUEL GAS CODE

DATE	DESCRIPTION
4/08/22	Client Revisions
6/29/22	City Comments
8/01/22	Transportation, Zoning Comments
8/01/22	City Comments
10/20/22	City Comments
11/21/22	Window Size Modifications
11/25/22	Window Size Locations



KADAMPA MEDITATION CENTER
4840 W 29th Ave
Denver, CO 80212
Building Renovation

PROFESSIONAL SEAL



DO NOT SCALE DRAWINGS
CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY JUNIPER ROAD STUDIOS LLC. OF ANY DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK.

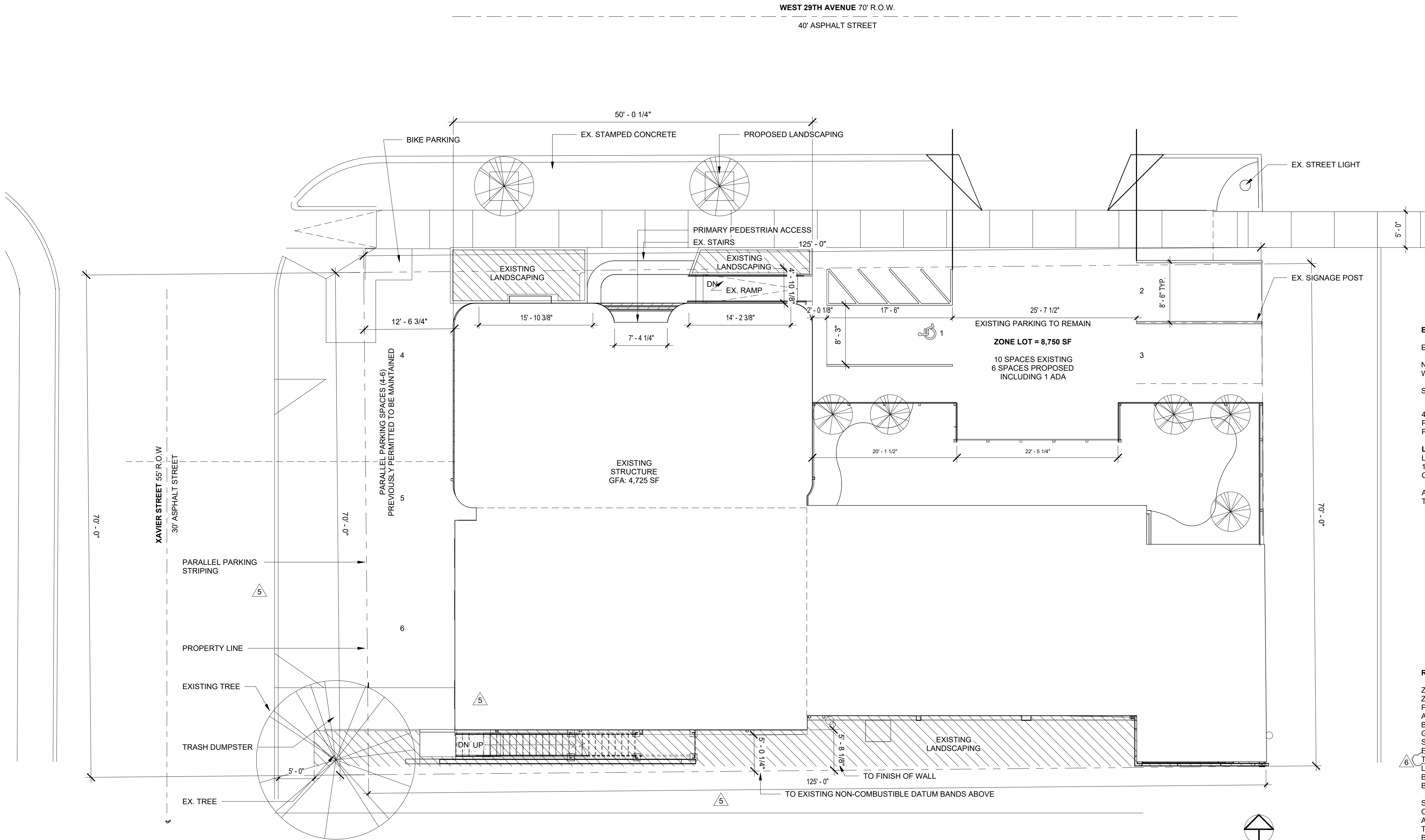
Cover Page

DRAWN BY JRS	SHEET G00.00
DATE 8/23/2022	REV. 12
SCALE @ 24"x36"	PROJECT NUMBER 21-4840

[illegible]

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1 Site Plan Zoning
1/8" = 1'-0"



EXISTING WALLS w/ RESPECT TO PROPERTY LINE

EXISTING FACADES WITHIN 15'0" OF THE PROPERTY LINE

NORTH: 49' 5 1/4" (329.58sf)
WEST: 60' 1 3/8" (145.28 sf)

SEE A6.00 & A6.01 ELEVATIONS FOR ADDITIONAL INFORMATION

4840 S 29TH AVE, DENVER, CO 80212
PARCEL SIZE: 8,750 SQFT OR 0.201 ACRES
PARCEL: 02303-20-001-000

LEGAL DESCRIPTION:
LOTS 1 TO 3, INCLUSIVE, GEORGE W OLINGER RESUBDIVISION OF BLOCK 13, ECKHART PLACE, CITY AND COUNTY OF DENVER, STATE OF COLORADO

A PARCEL OF LAND SITUATED IN THE SOUTHWEST 1/4 OF SECTION 30, TOWNSHIP 3 SOUTH, RANGE 68 WEST OF THE 6TH P.M.

REQUIRED ZONING SITE INFORMATION

ZONE DISTRICT: U-MX-3
ZONE LOT SIZE (GROSS AREA): 8,750sf
PRIMARY USES: ASSEMBLY, RESIDENTIAL
ACCESSORY USES: OFFICE, BOOKSTORE
BUILDING FORM USED: GENERAL
GROSS FLOOR AREA BY USE & FLOOR: SEE CHART ON G02.01 FLOOR PLANS
SECOND FLOOR: 1,590
FIRST FLOOR: 4,725
TOTAL GFA: 6,315
LANDSCAPING AREA PROVIDED: 1,659
BUILDING HEIGHT, STORIES (min/max): (3 STORIES MAX.) - 2 STORIES
BUILDING HEIGHT, FEET (min/max): (40' MAX.) - ~28'

STANDARD PARKING SPACES PROVIDED: 2
COMPACT PARKING SPACES PROVIDED: 0
ACCESSIBLE PARKING SPACES PROVIDED: 1
TOTAL PARKING SPACES PROVIDED: 3
BICYCLE PARKING (ENCLOSED/FIXED): 2
PARKING REQUIRED PER DZC: 3

NO.	DESCRIPTION	DATE
1	Client Revisions	4/08/22
5	City Comments	6/29/22
6	Transportation, Zoning Comments	8/01/22



**KADAMPA
MEDITATION CENTER**
4840 W 29th Ave
Denver, CO 80212
Building Renovation

PROFESSIONAL SEAL

8/01/2022
DO NOT SCALE DRAWINGS
CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY JUNIPER ROAD STUDIOS LLC. OF ANY DIMENSIONAL ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK.

Zoning Site Plan

DRAWN BY JRS	SHEET G02.00
DATE 8/01/2022	REV. 6
SCALE @ 24"x36" 1/8" = 1'-0"	PROJECT NUMBER 21-4840

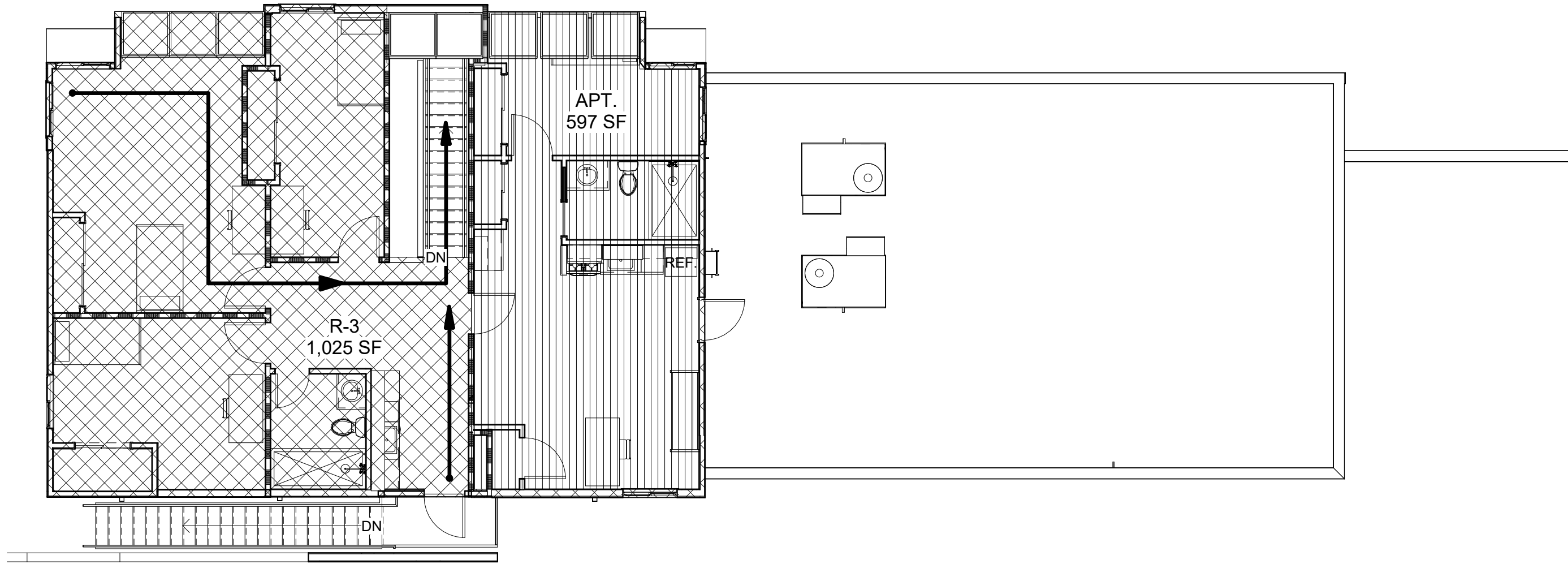
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→ PATH OF EGRESS FROM REMOTE POINT
- - - - - ALTERNATE EGRESS

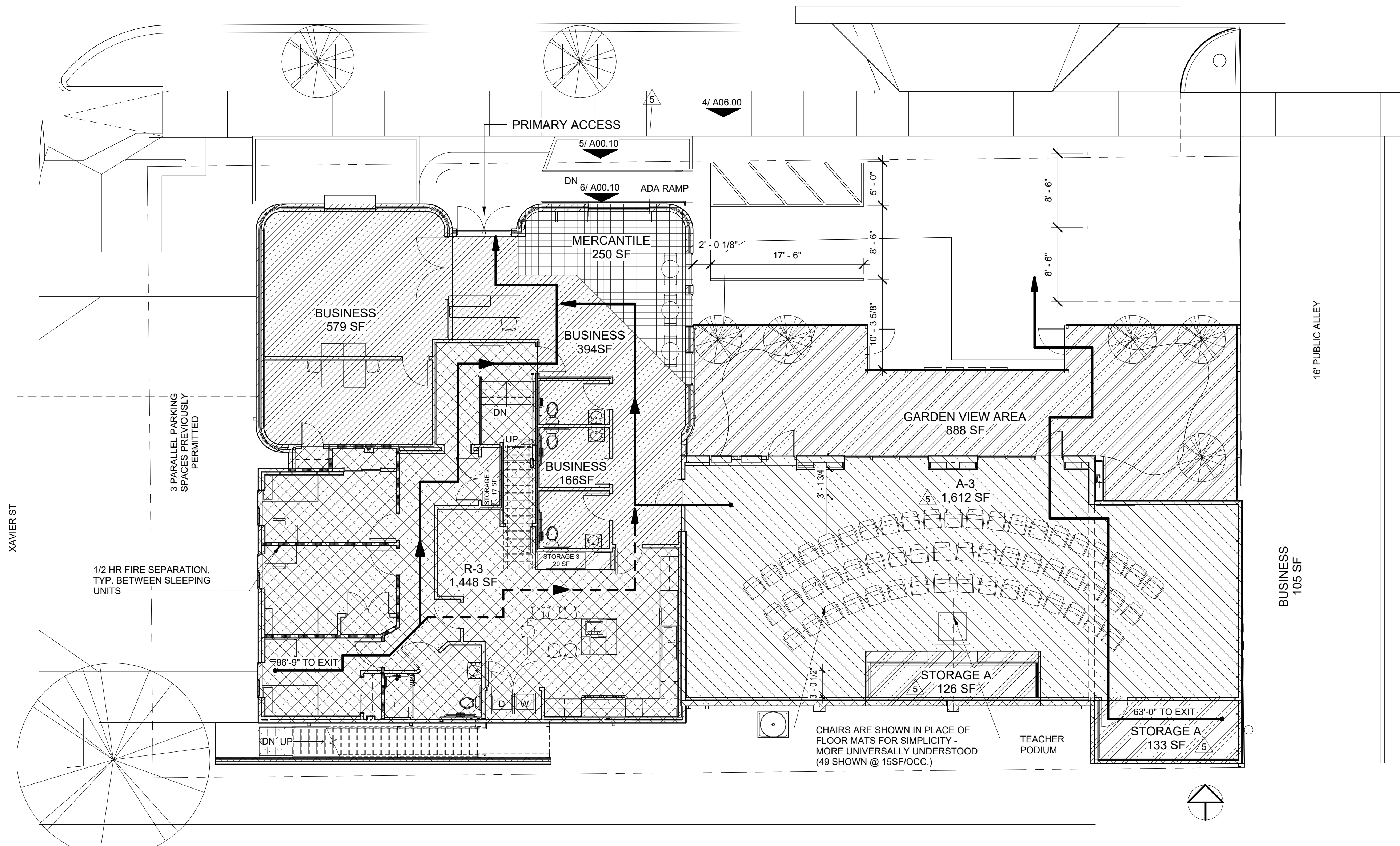
REQUIRED ZONING FLOOR PLAN INFORMATION
ZONE DISTRICT U-MX-3
PRIMARY USE RELIGIOUS - A-3, CONGREGATE LIVING RESIDENTIAL R-3
BUILDING FORM USED: GENERAL
GROSS FLOOR AREA BY USE AND FLOOR SEE CHART @ LOWER RIGHT

Area Legend
1/8" = 1'-0"

MAX. EGRESS = 33'-6" THIS FLOOR
= 25'-6" @ STAIRS
= 29'-6" STAIRS TO EXIT
TOTAL = 88'-6" TO EXIT



2 Upper Level - Area Plan
1/8" = 1'-0"



1 Gampa Level - Area Plan
1/8" = 1'-0"

PROJECT NARRATIVE

EXISTING 2 STORY RETAIL BUILDING OF 6,270 SF @ CORNER OF XAVIER AND W. 29TH AVE. THE LOT IS ZONED U-MX-3 WHICH ALLOWS MULTIPLE OCCUPANCIES.

PROPOSED - EXISTING STRUCTURE TO BE MODIFIED TO MEET A-3 (AS MOST RESTRICTIVE) W/ NON-SEPARATED OCUPANCIES OF B, M, R-3 USES. ALL SLEEPING UNITS SHALL BE PROVIDED FIRE RATED SEPARATION VERTICALLY AND HORIZONTALLY. SPRINKLERS THROUGHOUT ARE REQUIRED. ALL RESTROOMS ARE SINGLE USER TYPE. THOSE WITHIN THE RESIDENCE AREA INCLUDE A SHOWER.

R-3 OCCUPANCY INCLUDES 1 APARTMENT AND 6 TOTAL SLEEPING UNITS OF A CONGREGATE LIVING WITH A COMMON KITCHEN, LIVING AND SHARED RESTROOMS. THE MAIN LEVEL INCLUDES THE ADA COMPLIANT ACCESS/EGRESS, KITCHEN, SLEEPING UNIT AND RESTROOMS. ADA NOT REQUIRED UPSTAIRS. RESIDENTS ARE TYPICALLY THE TEACHERS AND CARE TAKERS OF THE FACILITY.

A MERCANTILE AREA OCCUPIES A PORTION OF THE LOBBY SPACE FOR BOOK SALES. BUSINESS INCLUDES OFFICE SPACE, SMALL MEETING SPACE (<500SF) AND ACCESSORY USE AREAS TO THE PRIMARY MEDITATION SPACE.

ASSEMBLY - A-3 FOR RELIGIOUS SPACES IS THE LARGEST ROOM IN THE BUILDING. OCCUPANT LOAD IS REQUESTED TO BUILDING OFFICIAL TO REMAIN AT 1/15 NET DUE TO USAGE RE 2018 IBC SECTION 1004.5. THIS IS A MEDITATION SPACE TRADITIONALLY USING FLOOR MATS OR CHAIRS GENEROUSLY SPACED DUE TO THE NATURE OF MEDITATION AND PERSONAL SPACE FOR EACH OCCUPANT.

AREAS & OCCUPANT LOAD FACTORS:

TABLE 1004.5: AREAS & OCCUPANT ANALYSIS: SEE ADJACENT PLANS FOR SQFT & LOCATIONS

ASSEMBLY A-3 IS NOTED AS MOST RESTRICTIVE W/ EXCEPTION OF THE R-3 REQUIRED SPRINKLERS. A-3 AREA IS NOTED AS 1/15 OCCUPANCY DUE TO METHOD OF USAGE WITH FLOOR MATS OR CHAIRS SPACED GENEROUSLY TO PROVIDE THE SPACE TO MEDITATE WITHOUT INTERRUPTION OF ADJACENT GUESTS. CHAIRS ARE NOT FIXED BUT THE USAGE OF SPACE IS BASED ON THAT CALC. RE 2018 IBC, SECTION 1004.5 WHERE APPROVED BY BUILDING OFFICIAL, ACTUAL OR REDUCED OCCUPANCY RATHER THAN CHART OCCUPANCY CAN BE USED

APPLICABLE CODES SEE COVER PAGE
BASIC DESIGN CRITERIA SEE COVER PAGE & STRUCTURAL DRAWINGS
OCCUPANCY GROUPS OFFICE AREA: **A-3** OCCUPANCY - RELIGIOUS ASSEMBLY - MOST RESTRICTIVE. NON SEPARATED USE OF **B** - (BUSINESS), **S-02** STORAGE, **M** - MERCANTILE, **R-3** - 2 OR LESS DWELLING UNITS (1 APARTMENT AND 6 CONGREGATE LIVING SLEEPING UNITS w/ ACCESS TO 1 KITCHEN AND 2 FULL BATHROOMS).

NUMBER OF STORIES / BUILDING HEIGHT: ALLOWED: 2 STORIES, +/-40'-0" HEIGHT
EXISTING: 2 STORIES, +/-27'-0" HEIGHT

SQUARE FOOTAGE OF AREA OF EXISTING: 6,180 TOTAL 2ND FLOOR: 1,455SF
1ST FLOOR: 4,725SF

SQUARE FOOTAGE OF AREA OF NEW CONSTRUCTION: 220 TOTAL 2ND FLOOR: 135SF R-3 SPACE AT SOUTH WALL, NE/W CORNERS
1ST FLOOR: 0 SF NONE

ALLOWABLE AREAS BY OCCUPANCY A-3 OCC. TYPE V-B w/ SPRINKLERS ALLOWS TABULAR MAX. OF 18,000 SF / FLOOR

UNLIMITED AREAS N/A

TYPE OF CONSTRUCTION: TYPE V-B STRUCTURE HAS BEEN ADDED TO MULTIPLE TIMES IN ITS PAST 70 YEARS W/ MULTIPLE CONSTRUCTION TYPES (CMU, BRICK, WOOD & METAL STUD FRAMING)

FIRE RESISTIVE REQUIREMENTS: FULL BUILDING SPRINKLERS AND ALARM SYSTEM PER DBC REQUIREMENTS FOR R-3 OCCUPANCY WALLS WITHIN 5' OF PROPERTY LINE TO BE RECONSTRUCTED AS 1 HR FIRE RATED ASSEMBLIES (**UL U419 - SEE A09.00**) WALLS SEPARATING SLEEPING UNITS OR APARTMENT FROM OTHER EACH OTHER OR OTHER OCCUPANCIES ARE REQUIRED TO MAINTAIN 1/2 HR VERTICAL & HORIZONTAL SEPARATION (**PRESCRIPTIVE CODE, 722.6 - SEE A09.00**) BETWEEN DWELLING UNIT, SLEEPING UNITS & OTHER OCCUP.

SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY: SECT. 420 GROUPS R-3 - (420.2) - SEPARATION OF DWELLING AND SLEEPING UNITS SHALL BE FIRE PARTITIONS IN ACCORDANCE WITH SECTION 708. (420.3) - HORIZONTAL SEPARATION BETWEEN UNITS SHALL BE CONSTRUCTED AS HORIZONTAL ASSEMBLIES PER SECTION 711. (420.4.3) GROUP R OCCUPANCIES SHALL HAVE SPRINKLERS IN ACCORDANCE WITH 903.2.8. (420.5) - SINGLE OR MULTIPLE STATION SMOKE ALARMS IN ACCORDANCE WITH 907.2.10. (420.9) - COOKING APPLIANCES USED FOR DOMESTIC OPERATIONS SHALL BE IN ACCORDANCE WITH SECTION 917.2 OF IMC.

OCCUPANCY LOAD: SEE CHART BELOW. REQUESTING BUILDING OFFICIAL ADJUSTMENT PER SECTION 1004.5 TO OCCUPANCY WITH RESPECT TO USE. - STANDARD USE OF MEDITATION ROOM HAS OCCUPANTS ON FLOOR MATS SPREAD OUT TO MAINTAIN PERSONAL SPACE TO MEDITATE AT ROUGHLY 1/15 SF EACH 1,463 / 15 = 97.8

COMMON PATH OF EGRESS: (T1006.2.1) LIMITATION BY OCCUPANCY W/ SPRINKLERS: M 75' MAX. B 100' MAX. R-3 125' MAX. ASSEMBLIES (1029.8) 30' MAX.

EXITS REQUIRED WIDTH & QUANTITY: ALL OCCUPANCIES REQUIRE ONLY ONE (1) EXIT BASED ON EXIT DISTANCE AND OCCUPANT LOAD EXCEPT THE ASSEMBLY AREA WHICH REQUIRES TWO (2). THE (ASSEMBLY) MEDITATION ROOM HAS 2+ EXITS. ALL OTHERS USE FRONT DOOR FOR EGRESS. DOOR WIDTH SHALL BE STANDARD 36" WIDTH WHERE OCCUPANT LOAD EXCEEDS 10.

EXIT ACCESS TRAVEL DISTANCE: (T1017.2) w/ SPRINKLERS, 250' MAX. ALLOWED. NO EXIT TRAVEL DISTANCE EXCEEDS 100'. SEE ADJ. ANALYSIS

AUTOMATIC SPRINKLER SYSTEM & FIRE ALARM: DBC REQUIRES SPRINKLERS THROUGHOUT BUILDING PER IBC 903.3.1.1. TO BE DEFERRED / PROVIDED BY LICENSED CONTRACTOR FOR SUCH WORK UNDER SEPARATE PERMIT

EMERGENCY LIGHT SYSTEM: MEANS OF EGRESS (1025) MEET 1FC REQUIREMENTS

EXIT SIGN REQUIREMENTS: (1013)

ASSEMBLY AISLE WIDTH: (1029.9, OPTION 5) 36" WIDTH LEVEL AISLE WHERE SEATING IS SERVED ON ONLY ONE SIDE

3 Code Analysis 1/4" = 1'-0"

PROJECT NAME	4840 W 29th Avenue	2018 IBC	LAST REVISED:	Friday, June 24, 2022			
LOCATION, FLOOR	ALL						
OCCUPANCY LOAD BY SQUARE FOOTAGE							
	<div>BUSINESS</div>	<div>ASSEMBLY-3 Unconcentrated (tables & chairs)</div>	<div>STORAGE</div>	<div>MERCANTILE</div>	<div>CONGREGATE LIVING (R-3)</div>	<div>APARTMENT (R-3)</div>	TOTAL FLOOR
MAIN LEVEL SF	1139	1612	276	250	1448	0	4725
LEVEL 2 SF							597
PER	150	15	300	60	200	200	1590
OC LOAD	7.59	107.47	0.92	4.17	12.21	2.99	
ROUND UP	8	108	1	5	13	3	
TOTAL OCCUPANT CAPACITY	138						
TOTAL SQFT	1139	1612	276	250	2441	597	
TOTAL OCCUPANCY LOAD							
136							
AREA CALCULATED (SF)							
6,315							
PROJECT NAME	4840 W 29th Avenue	2018 IBC	LAST REVISED:	Friday, June 24, 2022			
LOCATION, FLOOR	ALL						
PLUMBINGS CALCULATIONS							
OC LOAD	8	107	1	8	29	0	
PER # SEXES (M/F)	2	2	2	2	2	2	
	3.797	53.733	0.460	4.167	14.480	0.000	
ROUND UP (not used)	4	54	1	5	15	0	
	<div>BUSINESS</div>	<div>ASSEMBLY-3 Unconcentrated (tables & chairs)</div>	<div>STORAGE</div>	<div>MERCANTILE</div>	<div>CONGREGATE LIVING (R-3)</div>	<div>APARTMENT (R-3)</div>	
Water Closets - Men	0.08	0.43	0.00	0.01	1.45	0.00	1.96
Water Closets - Women	0.08	0.83	0.00	0.01	1.45	1.00	3.36
Laboratories - Men	0.05	0.27	0.00	0.01	1.45	0.00	1.77
Laboratories - Women	0.05	0.27	0.00	0.01	1.45	1.00	2.77
Drinking Fountains	0.08	0.21	0.00	0.01			0.36
Showers (1/8 R-3)					1.53	1.00	2.53
Urinals - Men	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NOTES	MOP SINKS, SHOWERS ARE ADDITIONAL REQUIREMENTS FOR SOME OCCUPANCY TYPES						
* REMOVES MAX URINAL COUNT ALLOWED FROM MEN'S WC REQUIREMENT							
** ADA REQUIRES ONE OF EACH FIXTURE BE ACCESSIBLE UNTIL 6 WC &/or UR FIXTURES PER LOCATION, ADA THEN REQUIRES AN AMBULATORY STALL BE INCLUDED (ADA 213.3.3)							
REQUIRED	TOTAL REQ.*	EXISTING	NEW REQUIRED				

FOR SMALL ESTABLISHMENTS, (B, A, BH) FACTORS NEED TO BE ADJUSTED
VERIFY OCCUPANCY TYPE PLUMBING FACTOR WITH JURISDICTIONAL CODE

4 Area & Plumbing Calcs

DATE	DESCRIPTION	NO.
4/08/22	Client Revisions	
6/29/22	City Comments	5

JUNIPER ROAD
STUDIOS

KADAMPA
MEDITATION CENTER
4840 W 29th Ave
Denver, CO 80212
Building Renovation

PROFESSIONAL SEAL

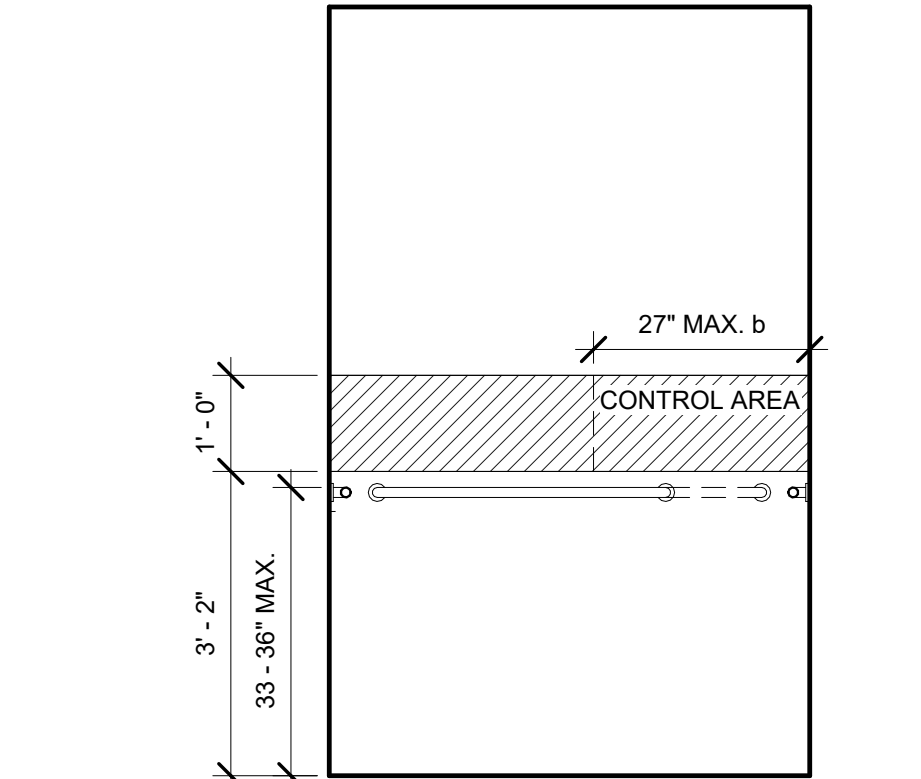
8/01/2022

DO NOT SCALE DRAWINGS
CONTRACTOR SHALL VERIFY ALL
CONDITIONS AND DIMENSIONS
AT THE JOB SITE AND NOTIFY
JUNIPER ROAD STUDIOS LLC.
OF ANY
DIMENSIONAL ERRORS, OMISSIONS,
OR DISCREPANCIES BEFORE
BEGINNING OR FABRICATING
ANY WORK.

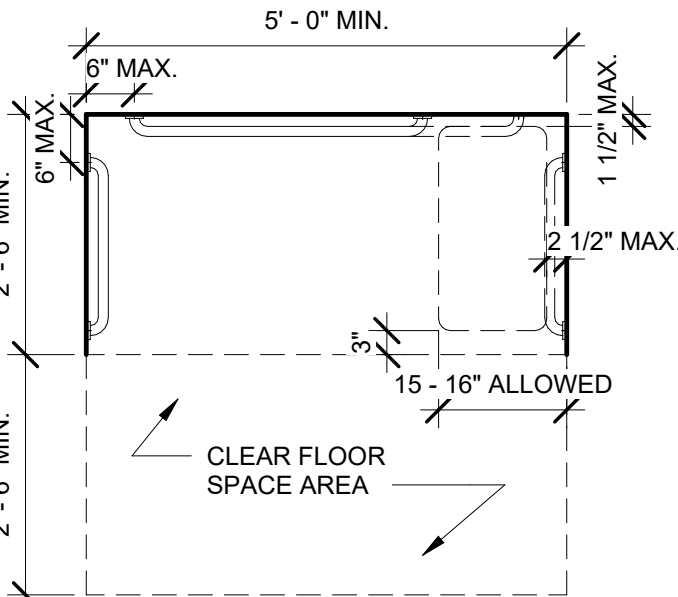
Zoning, Egress &
Code Analysis
Plans

DRAWN BY
JRS
DATE
8/01/2022
SCALE @ 24"x36"
As indicated

SHEET
G02.01
REV.
5
PROJECT NUMBER
21-4840



NOTES:
1. CONTROLS SHALL BE MOUNTED BETWEEN 38" AND 48" AFF ON ANY OF THREE WALLS WHERE NO BENCH SHALL BE INSTALLED (608.5.2). COORDINATE w/ SHOWER TYPE FOR LOCATION OF CONTROLS AND HEAD.
2. ROLL-IN w/ BENCH SHALL HAVE CONTROLS WITHIN 27" BACK WALL.



NOTES:
1. GRAB BARS REQUIRED TO HANDLE 250LBS IN ANY DIRECTION. (609.8)
2. IF NO BENCH INSTALLED, PROVIDE GRAB BAR ON ALL THREE WALLS. (608.3.2)
3. WITHIN RESIDENTIAL DWELLING UNITS, GRAB BARS NOT REQ'D TO BE INSTALLED, BUT BACKING IS REQUIRED. (608.3, EXCEPTION 2)

SHOWER COMPARTMENTS

A. SHOWER STALLS SHALL BE 36" X 36" CLEAR INSIDE DIMENSION AT TRANSFER TYPE SHOWER COMPARTMENTS AND HAVE A 36" MINIMUM WIDE BY 48" MINIMUM LONG CLEARANCE MEASURED FROM THE CONTROL WALL. ROLL-IN TYPE SHOWER COMPARTMENTS SHALL BE 30" MINIMUM WIDE BY 60" MINIMUM LONG AND SHALL HAVE A 30" MIN WIDE X 60" MIN LONG ENTRY ON THE FACE OF THE SHOWER COMPARTMENT. ALTERNATE ROLL-IN SHOWER TYPE COMPARTMENTS SHALL BE 36" MINIMUM WIDE AND 60" MINIMUM DEEP CLEAR INSIDE DIMENSIONS WITH A 36" THE COMPARTMENT. WIDE MINIMUM ENTRY PROVIDED AT ONE END OF THE LONG SIDE OF THE COMPARTMENT.

TRANSFER TYPE SHOWER COMPARTMENT

A. IN TRANSFER TYPE COMPARTMENTS, GRAB BARS SHALL BE PROVIDED ACROSS THE CONTROL WALL AND BACK WALL TO A POINT 18" FROM THE CONTROL WALL.
B. A FOLDING OR NON-FOLDING SEAT SHALL BE PROVIDED IN TRANSFER TYPE SHOWER COMPARTMENTS.
C. CONTROLS, FAUCETS, AND SHOWER SPRAY UNITS SHALL COMPLY WITH 309.4

THRESHOLDS

A. THRESHOLDS IN ROLL-IN TYPE SHOWER COMPARTMENTS SHALL BE 1/2" HIGH MAXIMUM IN ACCORDANCE WITH 308. IN TRANSFER TYPE SHOWER COMPARTMENTS, THRESHOLDS 1/2" HIGH SHALL BE BEVELED, ROUNDED, OR VERTICAL.

GRAB BARS

A. GRAB BARS WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4" MINIMUM AND 2" MAXIMUM. GRAB BARS WITH NON-CIRCULAR CROSS SECTIONS SHALL HAVE A CROSS-SECTION DIMENSION OF 2" MAXIMUM AND A PERIMETER DIMENSION OF 4" MINIMUM AND 4.8" MAXIMUM.
B. THE SPACE BETWEEN THE WALL AND GRAB BAR SHALL BE 1 1/2". THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW SHALL BE 1 1/2" MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12" MINIMUM.
C. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33" MINIMUM AND 36" MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE. REFER TO CHART FOR CHILDREN ACCESSIBLE HEIGHTS FOR EXCEPTIONS.
D. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A HORIZONTAL OR VERTICAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT OF THE GRAB BAR OR ANY OF ITS COMPONENTS.

BATHTUB SEATS

A. A SEAT SHALL BE ABLE TO STAND VERTICAL AND HORIZONTAL FORCES OF 250 POUNDS AND SHALL HAVE THE FOLLOWING FEATURES:
1. SHALL BE 17"-19" ABOVE FINISH FLOOR
2. REMOVABLE SEATS SHALL BE 15"-16" DEEP AND CAPABLE OF SECURE PLACEMENT.
3. PERMANENT SEATS SHALL BE 15" DEEP MINIMUM AND EXTEND FROM THE BACK WALL TO OR BEYOND THE OUTER EDGE OF THE BATHTUB.

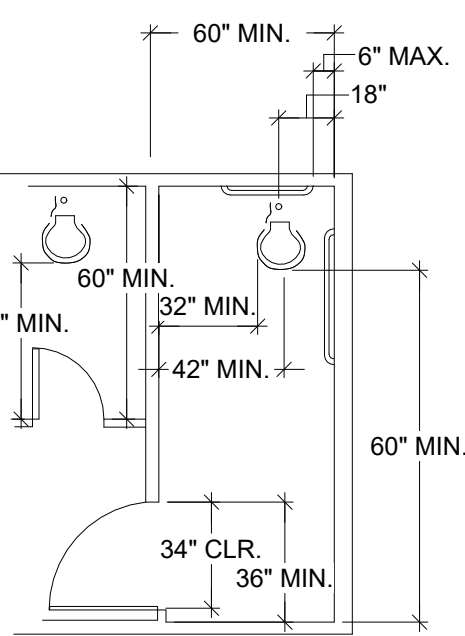
SHOWER SEATS

A. SEATS SHALL BE L-SHAPED WITH THE REAR EDGE 2 1/2" MAXIMUM FROM THE WALL AND 15"-16" MAXIMUM FROM THE SEAT WALL. THE REAR EDGE OF THE "L" PORTION SHALL BE 1 1/2" MAXIMUM FROM THE WALL AND THE FRONT EDGE SHALL BE 14"-15" FROM THE WALL. THE END OF THE "L" SHALL BE 22"-23" FROM THE MAIN SEAT WALL. SEATS SHALL HAVE BE ABLE TO STAND VERTICAL AND HORIZONTAL FORCES OF 250 LBS.
1. SHALL BE 17"-19" ABOVE FINISH FLOOR
2. WHERE A SEAT IS PROVIDED IN A ROLL IN TYPE SHOWER IT MUST BE THE FOLD-UP TYPE.

ROLL-IN SHOWER

ADA COMPARTMENT DOOR :

- EQUIPPED WITH AN AUTOMATIC CLOSING DEVICE (3 SECOND MIN. SWEEP TIME FROM OPEN POSITION OF 70 DEGREES TO A POINT 3").
- COMPARTMENT DOOR PROVIDES A MINIMUM 9" CLEARANCE FOR FOOTRESTS UNDERNEATH DOOR.
- INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR IS EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH IS A FLIP OVER STYLE. THE SLIDING OR OTHER HARDWARE NOT REQUIRING TIGHT GRASPING OR TWISTING.
- OPENING HARDWARE IS CENTERED BETWEEN 30" AND 44" ABOVE FINISH.



THIS DRAWING IS FOR REFERENCE ONLY-SEE PLANS

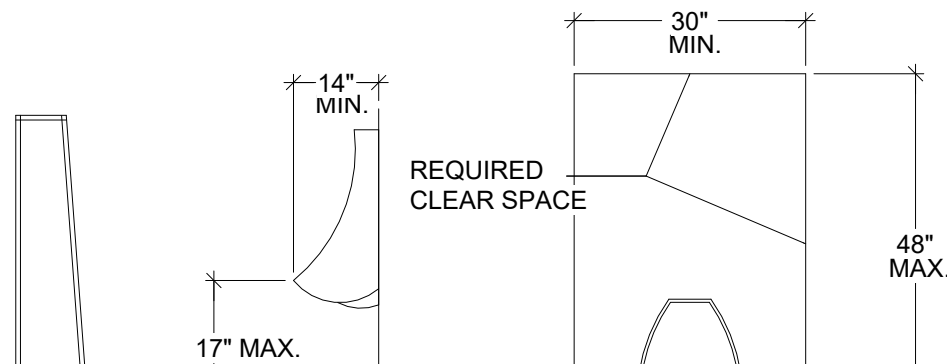
ACCESSIBLE STALL

N.T.S

10

NOTES:

- 30" WIDE x 48" DEEP MINIMUM CLEAR ACCESS IN FRONT OF THE FIXTURE (ONE FIXTURE ONLY).
- ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE JOINS OR OVERLAPS AN ACCESSIBLE ROUTE OR ADJOINS ANOTHER WHEELCHAIR CLEAR FLOOR SPACE.
- 17" MAXIMUM RIM HEIGHT ABOVE FLOOR.
- 44" MAXIMUM HEIGHT OF FLUSH VALVE ABOVE FLOOR.
- 5 LB. MAXIMUM PRESSURE TO OPERATE FLUSH VALVE.
- 14" MINIMUM PROJECTION FROM WALL.
- FLOOR SURFACES ARE SMOOTH, HARD AND NON-ABSORBENT EXPANDING UPWARD A MINIMUM OF 5" ONTO WALLS.
- WALLS WITHIN 24" OF FRONT AND SIDES OF URINAL ARE SMOOTH, HARD AND NON-ABSORBENT TO 48" HEIGHT, AND ARE NOT ADVERSELY AFFECTED BY MOISTURE.



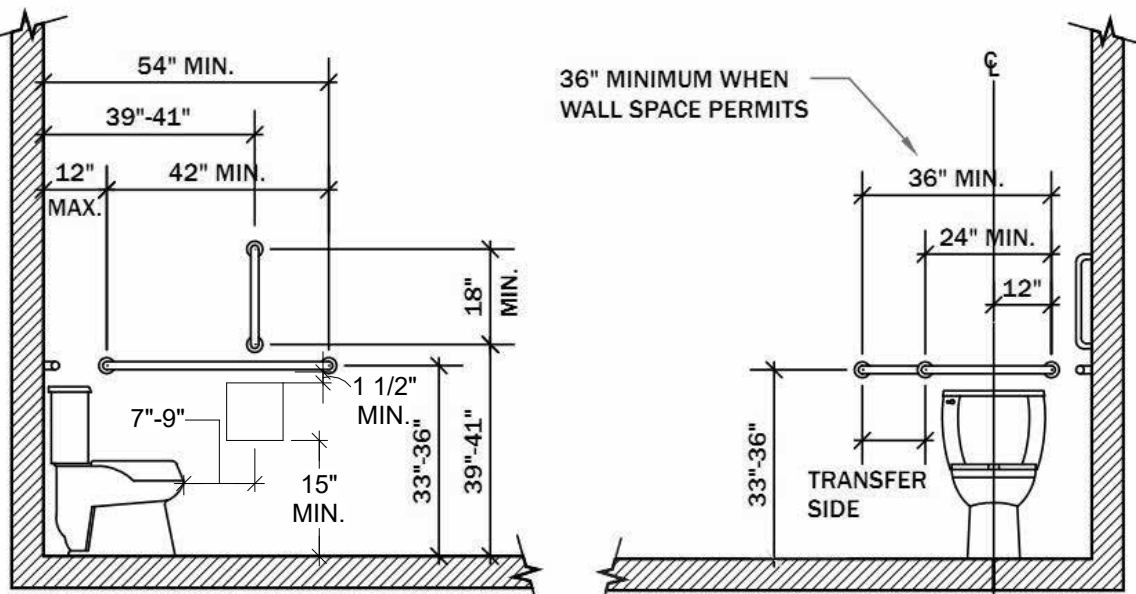
N.T.S

URINALS

11

NOTES:

- HEIGHT OF WATER CLOSET SEAT SHALL BE 17" TO 19" ABOVE THE FLOOR
- FLUSH VALVE SHALL BE LOCATE ON WIDE SPACE SIDE OF TOILET (EXCEPT) TANK TYPE1. THE FORCE REQUIRED TO ACTIVATE THE FLUSH VALVE 44" MAX. TO FINISH FLOOR. SHALL BE 5 LBS. MAXIMUM
- TOILET DISPENSER ALLOWS CONTINUOUS PAPER FLOW, NOT CONTROLLED DELIVERY



(b) SIDE VIEW (a) FRONT VIEW
FLOOR MOUNTED WATER CLOSETS

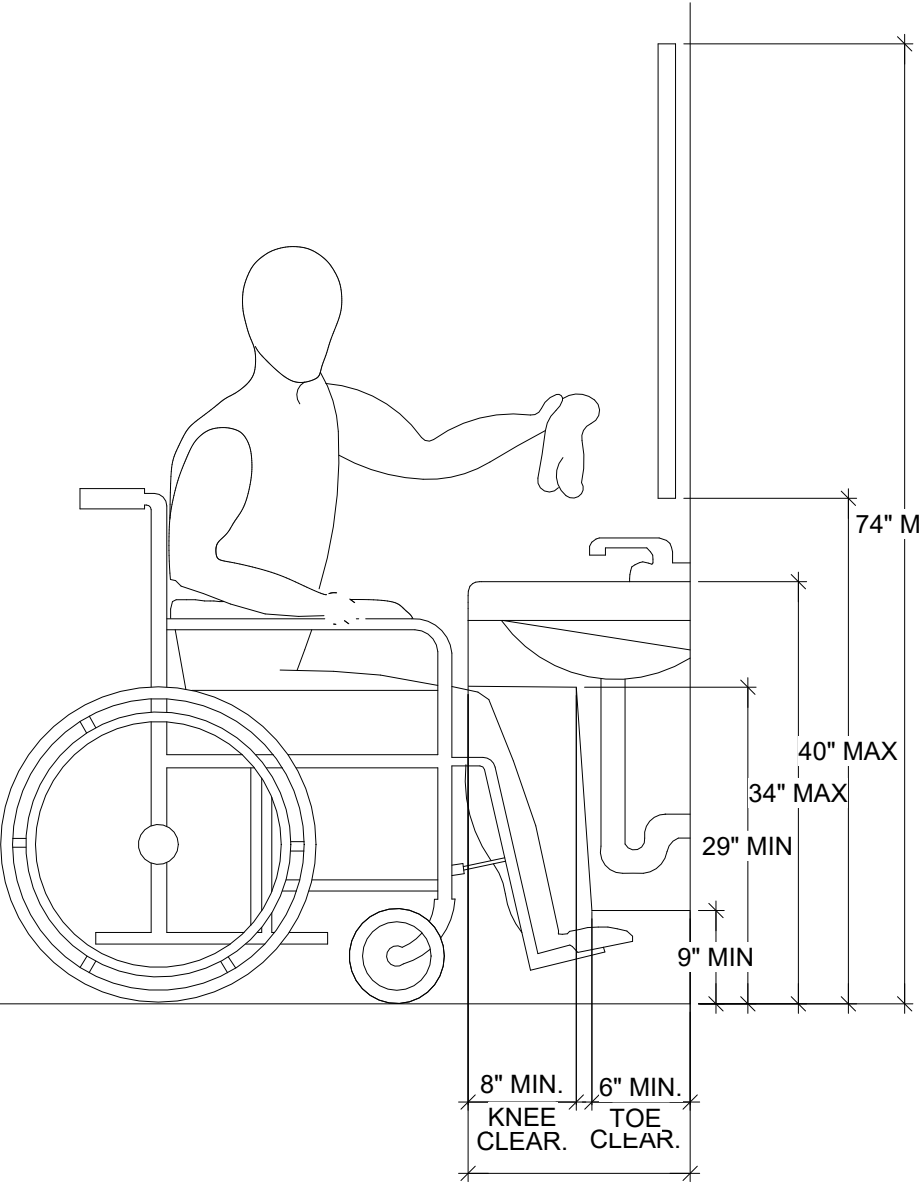
N.T.S

GRAB BAR & TOILET PAPER

8

NOTES:

- MINIMUM 30"x48" CLEAR SPACE IS PROVIDED IN FRONT OF SINK THAT ALLOWS FORWARD APPROACH.
- REQUIRED CLEAR SPACE ADJOINS OR OVERLAPS AN ACCESSIBLE ROUTE AND EXTENDS 16" MAX. UNDER LAVATORY.
- LAVATORIES ADJACENT TO SIDE WALL SHALL HAVE 18" MIN. DISTANCE TO CENTER OF FIXTURE.
- SINK IS A MAXIMUM OF SIX AND A HALF INCHES DEEP.
- KNEE CLEARANCE UNDER SINK IS A MINIMUM OF 27" AND 30" WIDE. AND PROVIDES AN ABSOLUTE DEPTH OF 18" UNDERNEATH THE SINK.
- DRAIN AND HOT WATER PIPING IS INSULATED OF CONFIGURED TO PREVENT CONTACT.
- THERE ARE NO SHARP OR ABRASIVE ELEMENTS UNDER SINK.
- FAUCETS ARE LEVER TYPE ELECTRONICALLY ACTIVATED OR APPROVED SELF CLOSING VALVES (MIN. 10 SECONDS OPEN FLOW)
- FAUCETS ARE OPERABLE WITH ONE HAND AND DO NOT REQUIRED TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
- 5 LBS. MAXIMUM IS MOUNTED WITH THE BOTTOM EDGE NO HIGHER THAN 40" FROM THE FLOOR.



LAVATORY CLEARANCES
19" ABSOLUTE DEPT
DEPT 30" WIDE

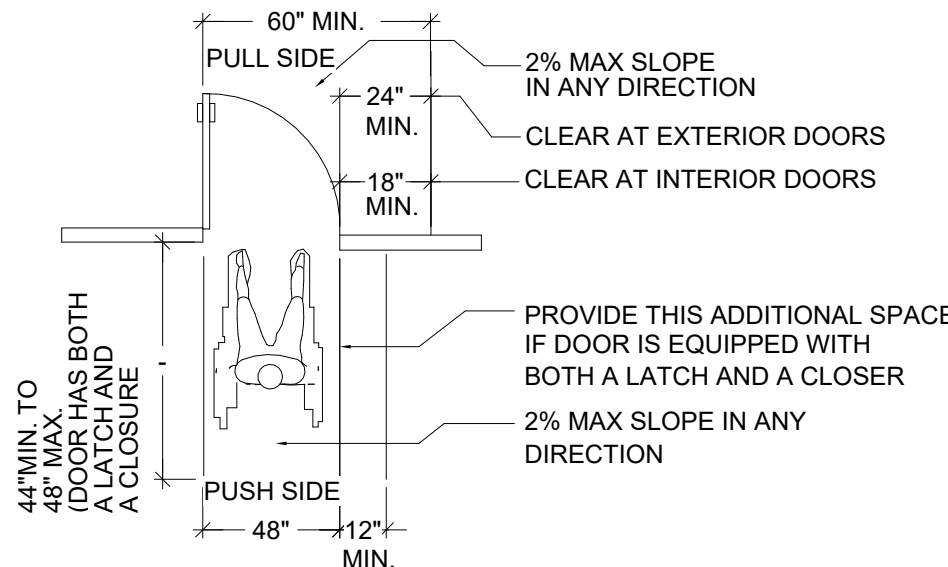
N.T.S

SINKS (LAVATORY)

9

GENERAL

- REGARDLESS OF THE OCCUPANT LOAD, SHALL BE A FLOOR OR LANDING ON EACH SIDE OF A DOOR.
- FLOOR OR LANDING ON EACH SIDE OF THE DOOR 15 LEVEL AND CLEAR.
- LEVEL AREA IN THE DIRECTION OF THE DOOR SWING IS MINIMUM OF 60" IN LENGTH.
- LEVEL AREA OPPOSITE THE DIRECTION OF THE DOOR SWING IS MINIMUM OF 44-48" IN LENGTH, DEPENDENT UPON DIRECTION OF APPROACH AND EXISTENCE OF LATCH AND CLOSER.
- SURFACE SLOPE OF THE LEVEL AREA DOES NOT EXCEED 1:12 GRADIENT(2%).



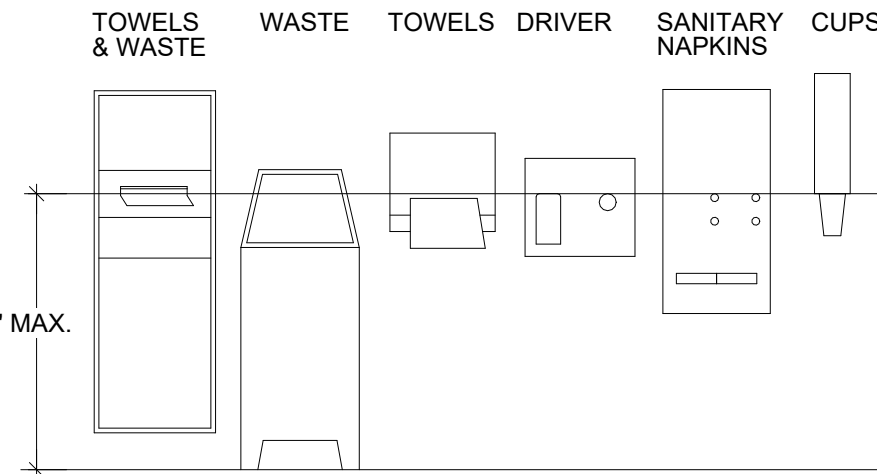
N.T.S

CLEARANCE AT DOORS

5

NOTES:

- MINIMUM 30" x 48" CLEAR FLOOR OR GROUND SPACE IS PROVIDED TO ALLOW FORWARD OR PARALLEL APPROACH TO ACCESSORIES.
- ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE ADJOINS OR OVERLAPS AN ACCESSIBLE ROUTE OR ADJOINS ANOTHER WHEELCHAIR CLEAR FLOOR SPACE.
- MIRROR IS MOUNTED WITH THE BOTTOM EDGE NO HIGHER THAN 40" FROM THE FLOOR.
- OPERABLE PARTS INCLUDING COIN SLOTS OF ALL FIXTURES OR ACCESSORIES ARE LOCATED A MAXIMUM OF 40" ABOVE FLOOR (I.E. SOAP DISPENSER, TOWELS, TOILET SEAT COVERS, AUTO DRYERS, SANITARY NAPKIN DISPENSERS, WASTE RECEPTACLES, ETC.
- CONTROLS AND OPERATING MECHANISMS ARE OPERATE WITH ONE HAND AND DO NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WIST.
- THE FORCE REQUIRED TO ACTIVATE CONTROLS IS 5 LBS. MAXIMUM.
- COAT HOOKS AND SHELVING ARE LOCATED WITHIN APPROPRIATE REACH RANGES (48" MAX. ABOVE FLOOR RECOMMENDED.
- MEDICINE CABINETS ARE PROVIDED, AT LEAST ONE HAS A USABLE SHELF NO HIGHER THAN 44" ABOVE FLOOR.



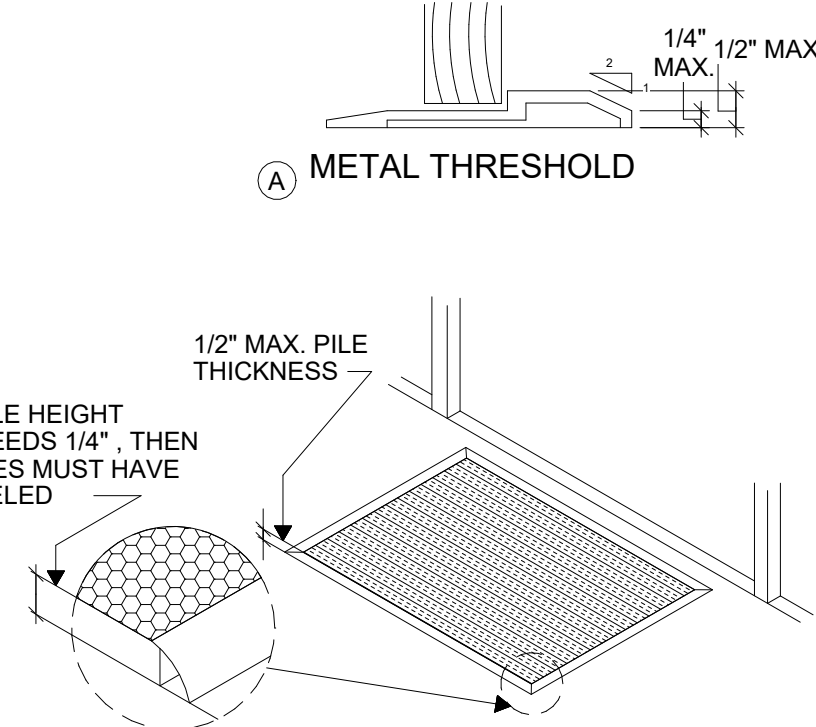
N.T.S

TOILET ROOM ACCESSORIES

6

NOTES:

- FLOOR(S) OR LANDING(S) ARE NOT MORE THAN ONE HALF INCH LOWER THAN THE TOP OF THE THRESHOLD AT DOORWAY.
- CHANGE IN LEVEL BETWEEN ONE FOURTH INCH AND ONE HALF INCH IS BEVELED AT A GRADIENT OF 1:2
NOTE: A ONE FOURTH INCH MAXIMUM VERTICAL EDGE IS ALLOWABLE AT THRESHOLDS.
- DOORMATS ARE SECURELY ATTACHED, ANCHORED OR RECESSED.
- MAXIMUM HEIGHT OF DOORMATS IS ONE HALF INCH.



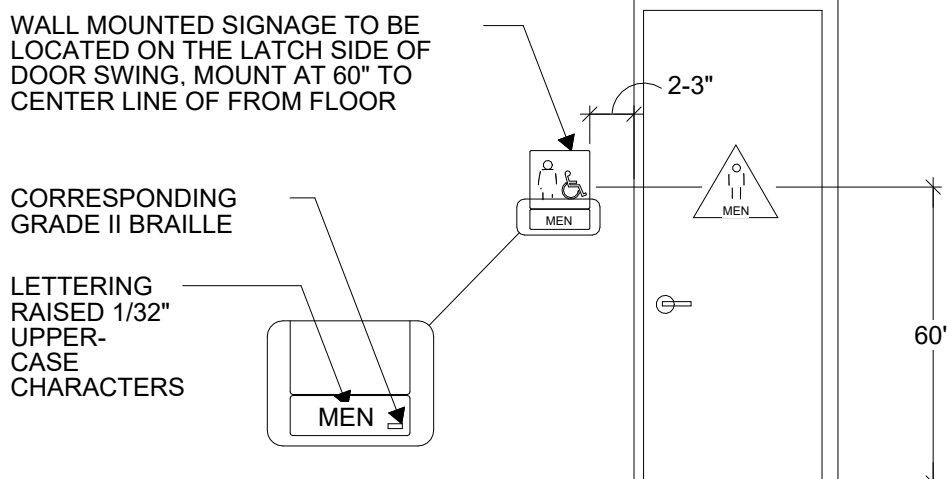
N.T.S

DOOR THRESHOLDS

7



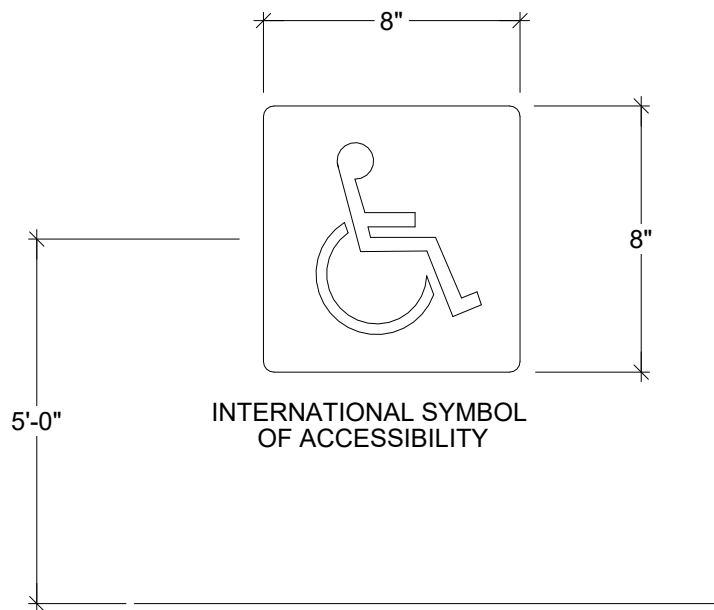
TYPICAL WALL SIGNAGE



N.T.S

RESTROOM WALL HC SIGNAGE

1

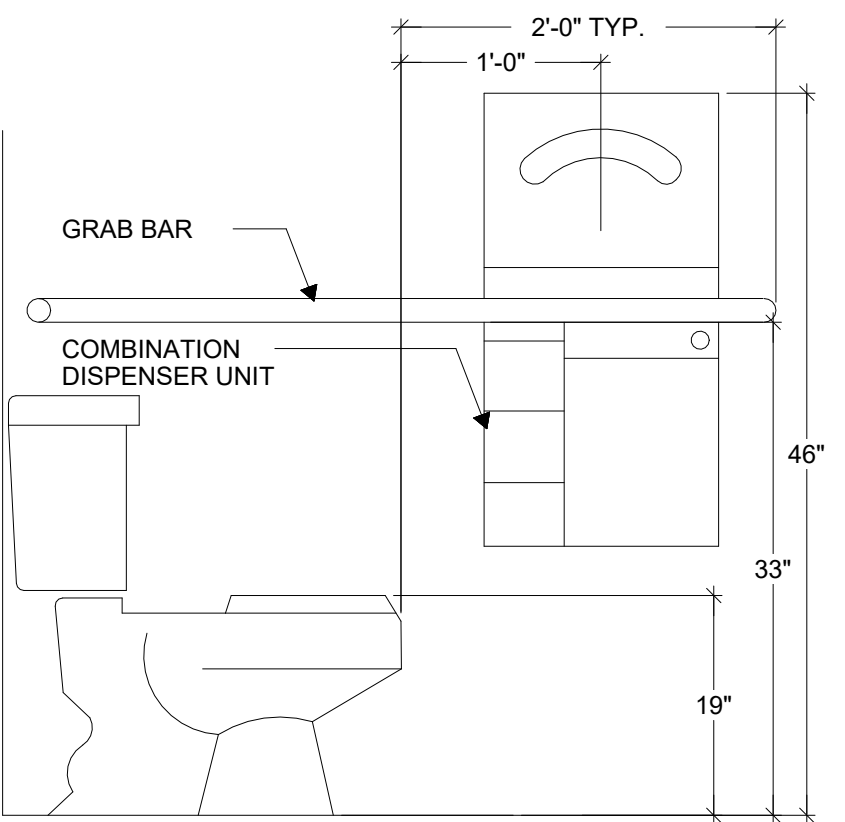


NOTES:
1. SIGNS SHALL BE DISTINCTLY DIFFERENT IN COLOR AND CONTRAST COLOR TO BE SELECTED BY ARCHITECT
2. SIGN ON GLASS TO BE CLEAR BACKGROUND WITH WHITE ETCHED ADA SYMBOL

N.T.S

ADA SIGNAGE

2



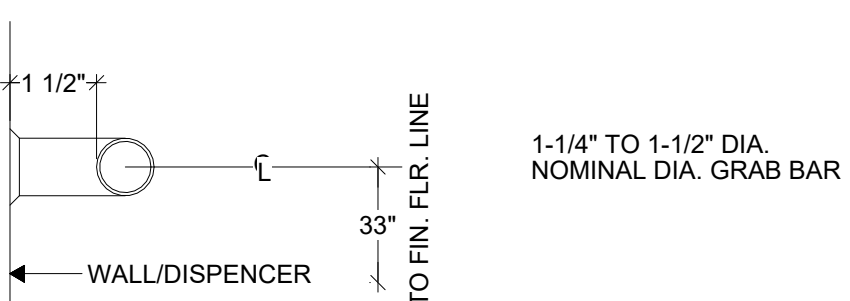
ELEVATION

N.T.S

H/C STALL

3

NOTES:
GRAB BARS AT WATER CLOSET.
1. ONE AT SIDE 42" LONG EXTENDING 24" IN FRONT OF WATER CLOSET, ONE AT REAR OF WATER CLOSET 36" LONG, BOTH MOUNTED 33" ABOVE FLOOR (EXCEPTION REAR GRAB BAR OVER TANK TYPE WATER CLOSET MAY BE UP TO 36" ABOVE FLOOR.
2. BARS SHALL BE ONE AND ONE FOURTH TO ONE AND ONE HALF INCH IN DIAMETER WITH ONE AND ONE HALF INCH CLEARANCE TO WALL.
3. BAR FASTENERS AND MOUNTING SUPPORT SHALL BE ABLE TO WITHSTAND 250 LBS. POINT LOAD IN BENDING SHEAR TENSION ROTATION IN FITTING NOT ALLOWED.
4. SURFACE OF WALL ADJACENT TO GRAB BAR IS TO BE FREE OF SHARP OR ABRASIVE ELEMENTS.



N.T.S

GRAB BAR DETAIL

4



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Accessibility Standards

DRAWN BY
JRS
DATE
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SCALE @ 24"x36"
As indicated

SHEET
G03.00
REV.

PROJECT NUMBER
21-4840

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DIVISION 05 METAL (CONT.)

SECTION 05 75 00 - DECORATIVE FORMED METAL (CONT.)

- E. UNCOATED, COLD-ROLLED STEEL SHEET, ASTM A 36/A 36M, MATTE FINISH; MINIMUM 0.052 INCH THICK, CLEAN SURFACES TO COMPLY WITH SSPC-SP 11 REMOVE MILL SCALE AND RUST, IF PRESENT, FROM UNCOATED STEEL, COMPLYING WITH SSPC-SP 5 OR SSPC-SP 8, IMMEDIATELY AFTER CLEANING, APPLY A CONVERSION COATING OF TYPE SUITABLE TO ORGANIC COATING APPLIED OVER IT, FINISH AS INDICATED.
1. FACTORY PRIMING FOR FIELD-PAINTED FINISH, IMMEDIATELY AFTER CLEANING AND PRE-TREATING, APPLY A FAST-CURING, LEAD AND CHROMATE-FREE, UNIVERSAL, MODIFIED-ALKYD SHOP PRIMER.
2. KED-ENAMEL FINISH, IMMEDIATELY AFTER CLEANING AND PRE-TREATING, APPLY MANUFACTURER'S STANDARD TWO COAT, BAKED-ENAMEL FINISH CONSISTING OF PRIME COAT AND THERMOSETTING TOPCOAT WITH A MINIMUM DRY FILM THICKNESS OF 2 MILS. COLOR TO MATCH ARCHITECT'S SAMPLE.
3. POWDER-COATED FINISH, IMMEDIATELY AFTER CLEANING AND PRE-TREATING, APPLY THERMOSETTING POLYESTER OR ACRYLIC URETHANE POWDER COATING WITH CURED-FILM THICKNESS NOT LESS THAN 1.5 MILS. COLOR TO MATCH ARCHITECT'S SAMPLE.
- F. STAINLESS STEEL SHEET, ASTM A 666, TYPE 304, MINIMUM 0.050 INCH THICK, FINISH AS INDICATED:
1. BRIGHT, DIRECTIONAL POLISH, NO. 4 FINISH.
2. REFLECTIVE, NON-DIRECTIONAL POLISH, NO. 8 FINISH.
- G. BRONZE SHEET, ASTM B 36/8 36M, ALLOY UNS NO. C28000 (MUNTZ METAL), MINIMUM 0.0508 INCH THICK, FINISH AS INDICATED.
1. FINE SATIN, DIRECTIONAL FINISH, LACQUERED; NAAMM M21-06X WITH TWO COATS OF AIR-DRYING, ACRYLIC LACQUER FORMULATED FOR COPPER-ALLOY PRODUCTS, TOTAL THICKNESS OF 1 MIL.
2. REFLECTIVE, NON-DIRECTIONAL FINISH, LACQUERED; NAAMM M21-06X WITH TWO COATS OF AIR-DRYING, ACRYLIC LACQUER FORMULATED FOR COPPER-ALLOY PRODUCTS, TOTAL THICKNESS OF 1 MIL.
- H. FLEXIBLE CELLULAR NEOPRENE GASKETS, ASTM D 1099, TYPE 1, CLASS A, GRADE AS RECOMMENDED BY MANUFACTURER TO OBTAIN AIRTIGHT SEAL FOR APPLICATION INDICATED.
- I. FASTENERS: SAME BASIC METAL AND ALLOY AS FASTENED METAL; CONCEALED; PHILLIPS FLAT-HEAD SCREWS WHERE EXPOSED.
- J. ANCHORS: TYPE, SIZE, AND MATERIAL RECOMMENDED BY THE MANUFACTURER.
- K. FABRICATION: CUSTOM FABRICATE FORMED METAL FABRICATIONS TO THE SIZES, SHAPES AND PROFILES SHOWN. FORM METAL IN MAXIMUM LENGTHS TO MINIMIZE JOINTS; FOLD BACK EXPOSED EDGES TO FORM A 1/2-INCH-WIDE KEEN OR GAGE EDGES AND SUPPORT CONCEALED STIFFENERS. SUPPORT JOINTS WITH CONCEALED STIFFENERS TO HOLD EXPOSED FACES OF ADJOINING SHEETS IN FLUSH ALIGNMENT.

12 EXECUTION

- A. LOCATE AND PLACE FORMED-METAL FABRICATIONS LEVEL, PLUMB, AND IN ALIGNMENT WITH ADJACENT CONSTRUCTION.

DIVISION 06 WOOD & PLASTICS

SECTION 06 10 33 - MISCELLANEOUS CARPENTRY

1.1 PRODUCTS

- A. THIS SECTION INCLUDES BLOCKING AND PANEL PRODUCTS FOR EQUIPMENT BACKING PANELS.

1.2 WOOD PRODUCTS, GENERAL

- A. LUMBER: DOC PS 20.
1. PROVIDE DRESSED LUMBER, S4S, UNLESS OTHERWISE INDICATED.
2. PROVIDE DRY LUMBER WITH 19 PERCENT MAXIMUM MOISTURE CONTENT AT TIME OF DRESSING FOR 2-INCH NOMINAL THICKNESS OR LESS, UNLESS OTHERWISE INDICATED.
3. FSC CERTIFIED.
- B. WOOD STRUCTURAL PANELS:
1. PLYWOOD: DOC PS 1 OR DOC PS 2, FSC CERTIFIED.

1.3 FIRE-RETARDANT-TREATED MATERIALS

- A. GENERAL: WHERE FIRE-RETARDANT-TREATED MATERIALS ARE INDICATED, PROVIDE MATERIALS THAT COMPLY WITH PERFORMANCE REQUIREMENTS IN AFWA C20(LUMBER) AND AFWA C27 (PLYWOOD). IDENTIFY FIRE-RETARDANT-TREATED WOOD WITH APPROPRIATE CLASSIFICATION MARKING OF U.L.S. TESTING, TIMBER PRODUCTS INSPECTION, OR ANOTHER TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

1.4 MISCELLANEOUS

- A. BLOCKING: PROVIDE CONSTRUCTION OR NO. 2 GRADE LUMBER WITH 19 PERCENT MAXIMUM MOISTURE CONTENT OF ANY SPECIES FSC CERTIFIED.

1.5 PANEL PRODUCTS

- A. TELEPHONE AND ELECTRICAL EQUIPMENT BACKING PANELS: DOC PS 1, EXPOSURE 1, C-D PLUGGED, FIRE-RETARDANT TREATED, IN THICKNESS INDICATED OR, IF NOT INDICATED, NOT LESS THAN 1/2-INCH THICK, FSC CERTIFIED.

1.6 INSTALLATION

- A. SET CARPENTRY TO REQUIRED LEVELS AND LINES, WITH MEMBERS PLUMB, TRUE TO LINE, CUT, AND FITTED. FIT CARPENTRY TO OTHER CONSTRUCTION; SCRIBE AND COPE AS NEEDED FOR ACCURATE FIT. LOCATE BLOCKING TO COMPLY WITH REQUIREMENTS FOR ATTACHING OTHER CONSTRUCTION.
- B. SECURELY ATTACH CARPENTRY WORK AS INDICATED AND ACCORDING TO APPLICABLE CODES AND RECOGNIZED STANDARDS.
- WOOD STRUCTURAL PANELS: COMPLY WITH APPLICABLE RECOMMENDATIONS CONTAINED IN APA FORM NO. E30K, APA DESIGN/CONSTRUCTION GUIDE: RESIDENTIAL & COMMERCIAL, FOR TYPES OF STRUCTURAL-USE PANELS AND APPLICATIONS INDICATED.

SECTION 06 40 23 - INTERIOR ARCHITECTURAL WOODWORK

1.1 SUMMARY

- A. THIS SECTION INCLUDES INTERIOR WOODWORK:
- STAIN AND FINISHING TRIM.
 - WOOD CABINETS.
 - PLASTIC-LAMINATE CABINETS.
 - PLASTIC-LAMINATE COUNTERTOPS.
 - SOLID-SURFACING-MATERIAL COUNTERTOPS.
 - FLUSH WOOD PANELING AND WAINSCOTS.
 - RAILS.
 - FRAMES AND JAMBS.
 - SHOP FINISHING OF WOODWORK.
- B. INTERIOR ARCHITECTURAL WOODWORK INCLUDES WOOD FURRING, BLOCKING, SHIMS, AND HANGING STRIPS, UNLESS CONCEALED WITH OTHER CONSTRUCTION BEFORE WOODWORK INSTALLATION.
- C. SUBMITTALS
- PRODUCT DATA: FOR CABINET HARDWARE AND ACCESSORIES, HANDRAIL BRACKETS, FINISHING MATERIALS AND PROCESSES.
 - SHOP DRAWINGS: INCLUDE LOCATION OF EACH ITEM, PLANS AND ELEVATIONS, LARGE-SCALE DETAILS, ATTACHMENT DEVICES, AND OTHER COMPONENTS.
 - SAMPLES: LUMBER AND PANEL PRODUCTS FOR TRANSPARENT AND OPAQUE FINISH, FOR EACH SPECIES AND CUT, FINISHED ON ONE SIDE AND ONE EDGE; FINISHING SAMPLES OF CLAD PANEL PRODUCTS, FOR EACH TYPE, COLOR, PATTERN, AND SURFACE FINISH; THERMOSET DECORATIVE-OVERLAY SURFACED PANEL PRODUCTS, FOR EACH TYPE, COLOR, PATTERN, AND SURFACE FINISH; SOLID-SURFACING MATERIALS.
- D. QUALITY ASSURANCE
- INSTALLER QUALIFICATIONS: FABRICATOR OF WOODWORK.
 - QUALITY STANDARD: UNLESS OTHERWISE INDICATED, COMPLY WITH AIA'S "ARCHITECTURAL WOODWORK QUALITY STANDARDS" FOR GRADES OF INTERIOR ARCHITECTURAL WOODWORK, CONSTRUCTION, FINISHES, AND OTHER REQUIREMENTS.
 - WOODWORK FOR THIS PROJECT SHALL BE REGISTERED AS AIA/QCOP. SUBMIT AIA/QCOP NUMBER TO ARCHITECT.
 - PROVIDE AIA/CES CREDIT LABELS OR COMPLIANCE CERTIFICATE INDICATING THAT WOODWORK COMPLIES WITH REQUIREMENTS OF GRADES SPECIFIED.
 - FIRE-TEST-RESPONSE CHARACTERISTICS: WHERE FIRE-RETARDANT MATERIALS OR PRODUCTS ARE INDICATED, PROVIDE MATERIALS AND PRODUCTS WITH SPECIFIED FIRE-TEST-RESPONSE CHARACTERISTICS AS DETERMINED BY TESTING IDENTICAL PRODUCTS PER TEST METHOD INDICATED BY U.L.S. OR ANOTHER TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. IDENTIFY WITH APPROPRIATE MARKINGS OF APPLICABLE TESTING AND INSPECTING AGENCY IN THE FORM OF SEPARABLE PAPER LABEL OR, WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION, IMPRINT ON SURFACES OF MATERIALS THAT WILL BE CONCEALED FROM VIEW AFTER INSTALLATION.
- E. PROJECT CONDITIONS
- ENVIRONMENTAL LIMITATIONS: DO NOT DELIVER OR INSTALL WOODWORK UNTIL BUILDING IS ENCLOSED, WET WORK IS COMPLETE, AND HVAC SYSTEM IS OPERATING AND MAINTAINING TEMPERATURE AND RELATIVE HUMIDITY AT LEVELS PLANNED FOR BUILDING OCCUPANTS DURING THE REMAINDER OF THE CONSTRUCTION PERIOD.
- F. WOODWORK FABRICATORS
- FABRICATORS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE INTERIOR ARCHITECTURAL WOODWORK BY ONE OF THE FABRICATORS INDICATED.

SECTION 06 40 23 - INTERIOR ARCHITECTURAL WOODWORK (CONT.)

1.2 MATERIALS

- A. WOOD FOR TRANSPARENT FINISH:
1. SPECIES AND CUT, AS INDICATED.
- B. WOOD FOR OPAQUE FINISH:
1. SPECIES: ANY CLOSED-GRAIN HARDWOOD
- C. WOOD PRODUCTS: AS INDICATED
1. HARDBOARD: AIA H15.4.
2. ADHESIVE SHALL HAVE NO UREA-FORMALDEHYDE RESIN MEDIUM DENSITY FIBERBOARD: SUBJECT TO COMPLIANCE WITH ANSI A208.2, PROVIDE ONE OF THE FOLLOWING, AS INDICATED:
- a. CANIFBER GROUP LTD.: ALLGREEN MD, ALLGREEN MR (MOISTURE RESISTANT), OR ALLGREEN FR, CLASS 1 (FIRE RATED).
- b. SIERRA PLUM LTD.: MEDITE I, MEDEX, OR MEDITEFR PARTICLEBOARD: ANSI A208.1, GRADE M-2: EXTERIOR GLUE.
- c. ROOMAN INDUSTRIES: RESNOCORE-1.
- D. THERMOSET DECORATIVE OVERLAY: PARTICLEBOARD OR MEDIUM-DENSITY FIBERBOARD WITH SURFACE OF THERMALLY FUSED, MELAMINE-IMPREGNATED DECORATIVE PAPER COMPLYING WITH LMA SAT-1.
- E. HIGH-PRESSURE DECORATIVE LAMINATE: NEMA LD.3.
1. MANUFACTURERS: AS INDICATED ON FINISH LEGEND.
- F. SOLID-SURFACING MATERIAL: SSM: PROVIDE MATERIAL THAT MEETS OR EXCEEDS ISSFA -201 PERFORMANCE STANDARDS, CONSISTING OF REACTED MONOMERS AND RESINS, MINERAL FILLERS AND PIGMENTS AND MANUFACTURED IN SHEETS OF SPECIFIC THICKNESSES. SSM SHALL BE SOLID, NON-POROUS, HOMOGENEOUS, HYGIENIC, RENEWABLE, AND, WHEN APPLICABLE, MAY FEATURE INCONSPICUOUS HYGIENIC SEAMS. SSM SHALL BE FREE FROM CONSPICUOUS INTERNAL STRENGTHENING FIBERS.
1. PRODUCTS: AS INDICATED ON FINISH LEGEND.
- G. FIRE-RETARDANT-TREATED MATERIALS
1. FIRE-RETARDANT-TREATED LUMBER AND PLYWOOD: MATERIALS IMPREGNATED WITH FIRE-RETARDANT CHEMICAL FORMULATIONS TO COMPLY WITH AFWA C20 (LUMBER) AND AFWA C27 (PLYWOOD), EXTERIOR TYPE OR INTERIOR TYPE A, USE FIRE-RETARDANT-TREATMENT FORMULATIONS THAT DO NOT BLEED THROUGH OR OTHERWISE ADVERSELY AFFECT FINISHES. KILN-DRY MATERIAL AFTER TREATMENT.
2. FIRE-RETARDANT PARTICLEBOARD: PANELS MADE FROM SOFTWOOD PARTICLES AND FIRE-RETARDANT CHEMICALS MIXED TOGETHER AT TIME OF PANEL MANUFACTURE WITH A FLAME-SPREAD INDEX OF 25 OR LESS AND SMOKE-DEVELOPED INDEX OF 25 OR LESS PER ASTM E84.
3. FIRE-RETARDANT FIBERBOARD: ANSI A208.2 MEDIUM-DENSITY FIBERBOARD PANELS MADE FROM SOFTWOOD FIBERS, SYNTHETIC RESINS, AND FIRE-RETARDANT CHEMICALS MIXED TOGETHER AT TIME OF PANEL MANUFACTURE WITH FLAME-SPREAD INDEX OF 25 OR LESS AND SMOKE-DEVELOPED INDEX OF 200 OR LESS PER ASTM E 84.
- H. CABINET HARDWARE AND ACCESSORIES
1. GENERAL: PROVIDE CABINET HARDWARE AND ACCESSORY MATERIALS FOR A COMPLETE INSTALLATION OF ARCHITECTURAL WOODWORK, EXCEPT FOR ITEMS SPECIFIED IN DIVISION 8 SECTION "DOOR HARDWARE" AND "AS OTHERWISE INDICATED." SEE FINISH LEGEND.
2. HARDWARE STANDARD: COMPLY WITH BHMA A156.8 FOR ITEMS INDICATED BY REFERENCING BHMA NUMBERS OR ITEMS REFERENCED TO THIS STANDARD.
3. FRAMELESS CONCEALED HINGES (EUROPEAN TYPE):
- a. PROVIDE 170 DEGREE MINIMUM OPENING CAPABILITIES. FOR END DOORS PERPENDICULAR TO WALLS, PROVIDE 90 DEGREE TYPE.
- b. FOR DOORS 36 INCHES HIGH OR LESS, PROVIDE 2 PAIR OF HINGES, ADD 1/2 PAIR FOR EVERY ADDITIONAL 20 INCHES.
4. PULLS:
- a. WIRE PULLS: BACK MOUNTED, 4 INCHES LONG, 5/16 INCHES IN DIAMETER, UNLESS NOTED OTHERWISE. SEE FINISH LEGEND.
5. CATCHES: MAGNETIC; BHMA A156.9, B03141.
6. SHELF RESTS: BELOW AND ABOVE INSTALLED HOLES DRILLED IN CABINET SIDES AND PARTITIONS.
7. SHELF RESTS: BHMA A156.9, B04013.
8. ADJUSTABLE SHELF SUPPORTS BELOW ARE SLOTTED STRIPS THAT ARE EITHER SURFACE MOUNTED OR RABBETED FLUSH INTO CABINET SIDE WALLS AND CLIPS SNAP INTO THE VERTICAL STRIPS TO PROVIDE SHELF SUPPORT.
9. ADJUSTABLE SHELF SUPPORTS: EDP TYPE, UNLESS NOTED OTHERWISE, SET IN 2/10-INCH HOLES, SPACED AT 1 1/4 INCHES O.C.
- a. MODEL NO. 282.014 BY HAFELE AMERICA, CO.
- b. MODEL NO. 282.24.13 BY HAFELE AMERICA, CO.
10. ADJUSTABLE SHELF STANDARDS AND BRACKETS:
- a. STANDARDS: MODEL NO. 87AND EXTRA HEAVY DUTY 87-187 SERIES; LENGTHS AS INDICATED, BY KNAPE AND VOGT.
- b. BRACKETS: MODEL NO. 186 LL AND FOR 8- AND 10-INCH AND MODEL NO. 187 LL AND FOR 12- TO 24-INCH DEEP SHELVES BY KNAPE AND VOGT.
11. DRAWER SLIDES FOR AIA CUSTOM GRADE CABINETRY: UNLESS NOTED OTHERWISE, PROVIDE POSITIVE STOP, SELF-CLOSING, SIDE-MOUNTED, FULL-EXTENSION, ZINC-PLATED STEEL DRAWER SLIDES WITH STEEL BALL BEARINGS.
- a. PENCIL DRAWER SLIDES: PARTIAL EXTENSION TYPE, MODEL NO. 2008 BY ACCURIDE, INC.
- b. BOX DRAWER SLIDES: 100 POUND CAPACITY MINIMUM, UP TO 24 INCHES WIDE, MODEL NO. 3832CS, COLOR ZINC, BY ACCURIDE, INC.
- c. LATERAL FILE DRAWER SLIDES: 150 POUND CAPACITY MINIMUM, UP TO 30 INCHES WIDE, MODEL NO. 4034 OVER-TRAVEL, BY ACCURIDE, INC.
- d. 200 POUND CAPACITY MINIMUM, MORE THAN 30 INCHES WIDE, MODEL NO. 3640 BY ACCURIDE, INC.
- e. KEYBOARD SLIDE: MODEL NO. 2009, COLOR ZINC, BY ACCURIDE, INC.
- f. REFUSE CABINETS: MODEL NO. 3640 BY ACCURIDE, INC.
12. DRAWER SLIDES FOR PREMIUM GRADE CABINETRY: UNLESS NOTED OTHERWISE, PROVIDE POSITIVE STOP, SELF-CLOSING, SIDE-MOUNTED, FULL-EXTENSION, ZINC-PLATED STEEL DRAWER SLIDES WITH STEEL BALL BEARINGS.
- a. PENCIL DRAWER SLIDES: PARTIAL EXTENSION TYPE, MODEL NO. 2008 BY ACCURIDE, INC.
- b. BOX DRAWER SLIDES: 100 POUND CAPACITY MINIMUM, UP TO 24 INCHES WIDE, MODEL NO. 7832 FULL EXTENSION, COLOR ZINC, BY ACCURIDE, INC.
- c. LATERAL FILE DRAWER SLIDES: 150 POUND CAPACITY MINIMUM, UP TO 30 INCHES WIDE, MODEL NO. 4034 OVER-TRAVEL, BY ACCURIDE, INC.
- d. LATERAL FILE DRAWER SLIDES: 200 POUND CAPACITY MINIMUM, MORE THAN 30 INCHES WIDE, MODEL NO. 3640 BY ACCURIDE, INC.
- e. KEYBOARD SLIDE: MODEL NO. 2009, COLOR ZINC, BY ACCURIDE, INC.
- f. REFUSE CABINETS: MODEL NO. 3640 BY ACCURIDE, INC.
13. FLIPPER DOOR SLIDES: FOR VERTICALLY MOUNTED RETRACTING CABINET DOORS UP TO 75 POUNDS AND 72 INCHES TALL, MODEL NO. 1432, ZINC, COLOR, WITH KNEE CARRIER STRIP BY ACCURIDE, INC.
14. MUTES: RUBBER, APPROXIMATELY 1/4-INCH DIAMETER, COLOR COMPATIBLE WITH ADJACENT FINISH.
15. ALUMINUM SLIDES FOR SLIDING GLASS DOORS: HEAVY DUTY TRACK ASSEMBLY CONSISTING OF UPPER GUIDE, SHOE-H BAR, LOWER TRACK AND ROLLERS; CLEAR ANODIZED FINISH.
16. NO. D123A BY C. R. LAURENCE COMPANY, INC.
17. DOOR AND DRAWER LOCKS:
- a. PIN AND LUMBER SLIDE BOLT LOCK, TWO KEYS EACH.
- b. KEY ALL LOCKS INSIDE ONE ROOM ALIKE AND PROVIDE MASTERKEY FOR ALL LOCKS IN PROJECT.
- c. FINISH TO MATCH ADJACENT PULL, OR AS SELECTED BY ARCHITECT.
- d. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
- NO. C81335 DRAWER, C8139 DOOR LOCK, BY NATIONAL LOCK HARDWARE.
 - NO. 46-002 CABINET LOCKS, BY SCLAGE LOCK CO.
 - SERIES SL BY BEST LOCK CORPORATION.
18. CLOSET RODS AND FLANGES:
- a. FOR SPANS UP TO 48 INCHES: NO. KV 770-1 ROD WITH 736 FLANGES BY KNAPE AND VOGT.
- b. FOR SPANS FROM 48 INCHES UP TO 84 INCHES: NO. KV 770-5 ROD WITH 766 FLANGES BY KNAPE AND VOGT.
19. EXPOSED HARDWARE FINISHES: COMPLYING WITH BHMA A156.18 FOR BHMA FINISH AS INDICATED. FURRING, BLOCKING, SHIMS, AND HANGING STRIPS: SOFTWOOD OR HARDWOOD LUMBER, FIRE-RETARDANT-TREATED, KILN-DRYED TO LESS THAN 15 PERCENT MOISTURE CONTENT.
20. COMPOSITE WOOD AND AGRIFER PRODUCTS ARE TO CONTAIN NO ADDED UREA-FORMALDEHYDE.

1.3 FABRICATION

- A. GENERAL: COMPLETE FABRICATION TO MAXIMUM EXTENT POSSIBLE BEFORE SHIPMENT TO PROJECT SITE, WHERE NECESSARY FOR FITTING AT SITE; PROVIDE ALLOWANCE FOR SCRUBING, TRIMMING, AND FITTING.
1. INTERIOR WOODWORK GRADE: COMPLYING WITH THE REFERENCED QUALITY STANDARD FOR GRADE INDICATED.
2. INTERIOR WOODWORK GRADES:
- a. CUSTOM GRADE, UNLESS OTHERWISE INDICATED.
- b. PREMIUM GRADE, WHERE INDICATED.
- c. SHOP CUT OPERATIONS: REMOVE TO MAXIMUM EXTENT POSSIBLE. SAND EDGES OF CUTOUTS TO REMOVE SPLINTERS AND BURRS.
3. SEAL EDGES OF OPENINGS IN COUNTERTOPS WITH A COAT OF VARNISH.
4. INSTALL GLASS TO COMPLY WITH APPLICABLE REQUIREMENTS IN DIVISION 8 SECTION "GLAZING" AND IN GANAS "GLAZING MANUAL." FOR GLASS IN WOOD FRAMES, SECURE GLASS WITH REMOVABLE STAPES.
5. FOR TRIM ITEMS WIDER THAN AVAILABLE LUMBER, USE VENEERED CONSTRUCTION. DO NOT GLUE FOR WIDTH.
6. BACKOUT OR GROOVE BACKS OF FLAT TRIM MEMBERS AND KERF BACKS OF OTHER WIDE, FLAT MEMBERS, EXCEPT FOR MEMBERS WITH ENDS EXPOSED IN FINISHED WORK.
7. ASSEMBLE CASINGS IN PLANT EXCEPT WHERE LIMITATIONS OF ACCESS TO PLACE OF INSTALLATION REQUIRE FIELD ASSEMBLY.
- B. WOOD CABINETS FOR TRANSPARENT FINISH:
1. AIA TYPE OF CABINET CONSTRUCTION: AS INDICATED.
2. REVEAL DIMENSION: AS INDICATED.
3. GRAIN MATCHING: RUN AND MATCH GRAIN VERTICALLY FOR DRAWER FRONTS, DOORS, AND FIXED PANELS, UNLESS OTHERWISE INDICATED.
4. MATCHING OF VENEER LEAVES: BOOK MATCH, UNLESS OTHERWISE INDICATED.

SECTION 06 40 23 - INTERIOR ARCHITECTURAL WOODWORK (CONT.)

1.2 MATERIALS

5. VENEER MATCHING WITHIN PANEL FACE: BALANCE MATCH, UNLESS OTHERWISE INDICATED.
6. VENEER MATCHING WITHIN ROOM: PROVIDE CABINET VENEERS IN EACH ROOM OR OTHER SPACE FROM A SINGLE FLUSH WITH DOORS, DRAWER FRONTS, AND OTHER SURFACES MATCHED IN A SEQUENCED SET WITH CONTINUOUS MATCH WHERE VENEERS ARE INTERRUPTED PERPENDICULAR TO THE GRAIN.
7. COMPLY WITH VENEER AND OTHER MATCHING REQUIREMENTS INDICATED FOR BLUEPRINT-MATCHED PANELING.
8. SEMIEXPOSED SURFACES OTHER THAN DRAWER BODIES: COMPATIBLE SPECIES TO THAT INDICATED FOR EXPOSED SURFACES, STAINED TO MATCH, UNLESS OTHERWISE INDICATED.
- a. DRAWER SIDES AND BACKS: THERMOSET DECORATIVE OVERLAY, UNLESS OTHERWISE INDICATED.
- b. DRAWER BOTTOMS: THERMOSET DECORATIVE OVERLAY, UNLESS OTHERWISE INDICATED.
- A. PLASTIC-LAMINATE CABINETS:
1. AIA TYPE OF CABINET CONSTRUCTION: AS INDICATED.
2. LAMINATE CLADDING FOR EXPOSED SURFACES: HIGH-PRESSURE DECORATIVE OF GRADE INDICATED.
- a. HORIZONTAL SURFACES OTHER THAN TOPS: HGS (0.048 INCH THICK).
- b. VERTICAL SURFACES: HGS (0.048 INCH THICK).
- c. EDGES: HGS (0.048 INCH THICK) UNLESS OTHERWISE INDICATED.
3. MATERIALS FOR SEMIEXPOSED SURFACES OTHER THAN DRAWER BODIES: HIGH-PRESSURE DECORATIVE LAMINATE, GRADE VSS (0.028 INCH THICK).
- a. DRAWER SIDES AND BACKS: THERMOSET DECORATIVE OVERLAY, UNLESS OTHERWISE INDICATED.
- b. DRAWER BOTTOMS: THERMOSET DECORATIVE OVERLAY, UNLESS OTHERWISE INDICATED.
4. COLORS, PATTERNS, AND FINISHES: AS INDICATED, OR, IF NOT INDICATED, AS SELECTED FROM MANUFACTURER'S FULL RANGE.
- B. PLASTIC-LAMINATE COUNTERTOPS:
1. HIGH-PRESSURE DECORATIVE LAMINATE GRADE: HGS (0.048 INCH THICK).
2. COLORS, PATTERNS, AND FINISHES: AS INDICATED, OR, IF NOT INDICATED, AS SELECTED FROM MANUFACTURER'S FULL RANGE.
3. EDGE TREATMENT: AS INDICATED.
4. CORE MATERIAL: AT SINKS, PARTICLEBOARD, ON MEDIUM DENSITY FIBERBOARD MADE WITH EXTERIOR GLUE, OR EXTERIOR-GRADE PLYWOOD.
- C. SOLID-SURFACING-MATERIAL COUNTERTOPS:
1. SOLID-SURFACING-MATERIAL THICKNESS: 3/4 INCH, UNLESS OTHERWISE INDICATED.
2. COLORS, PATTERNS, AND FINISHES: AS INDICATED, OR, IF NOT INDICATED, AS SELECTED FROM OF PANEL MANUFACTURER'S FULL RANGE.
3. FABRICATE TOPS IN ONE PIECE WITH SHOP-APPLIED BACKSPLASHES AND EDGES, UNLESS OTHERWISE INDICATED. COMPLY WITH SOLID-SURFACING-MATERIAL MANUFACTURER'S WRITTEN RECOMMENDATIONS FOR ADHESIVES, SEALERS, FABRICATING, AND FINISHING.
- D. FLUSH WOOD PANELING:
1. LUMBER TRIM AND EDGES: AT FABRICATOR'S OPTION, TRIM AND EDGES INDICATED AS SOLID WOOD (EXCEPT MOLDED) MAY BE EITHER LUMBER OR VENEERED CONSTRUCTION COMPATIBLE WITH GRAIN AND COLOR OF VENEERED PANELS.
2. MATCHING OF ADJACENT VENEER LEAVES: BOOK MATCH, UNLESS OTHERWISE INDICATED.
3. VENEER MATCHING WITHIN PANEL FACE: CENTER MATCH, UNLESS OTHERWISE INDICATED.
4. PANEL MATCHING METHOD: IN EACH SEPARATE AREA, USE BLUEPRINT-MATCHED PANELS AND COMPONENTS, UNLESS OTHERWISE INDICATED.
5. FIRE-RETARDANT-TREATED PANELING: PROVIDE PANELS CONSISTING OF WOOD VENEER AND FIRE-RETARDANT PARTICLEBOARD OR FIRE-RETARDANT MEDIUM-DENSITY FIBERBOARD WITH A FLAME-SPREAD INDEX OF 75 OR LESS AND SMOKE-DEVELOPED INDEX OF 450 OR LESS PER ASTM E 84.
- E. STAIRWORK AND RAILS: AS INDICATED.
- F. FIRE-RATED INTERIOR FRAMES AND JAMBS: PRODUCTS FABRICATED FROM FIRE-RETARDANT PARTICLEBOARD OR FIRE-RETARDANT MEDIUM-DENSITY FIBERBOARD WITH VENEERED, EXPOSED SEACES AND LISTED, LABELED BY A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, FOR FIRE RATINGS INDICATED, BASED ON TESTING ACCORDING TO NFPA 252.
1. TEST PRESSURE: TEST AT ATMOSPHERIC PRESSURE.
2. FIRE RATINGS: 20 MINUTES OR 45 MINUTES, AS INDICATED AND REQUIRED.

1.4 SHOP FINISHING

- A. FINISH ARCHITECTURAL WOODWORK AT FABRICATION SHOP. DEFER ONLY FINAL TOUCHUP, CLEANING, AND POLISHING UNTIL AFTER INSTALLATION.
- B. BACKPRIMING: APPLY ONE COAT OF SEALER OR PRIMER, COMPATIBLE WITH FINISH COATS, TO CONCEALED SURFACES OF WOODWORK. APPLY TWO COATS TO BACK OF PANELS.
- C. TRANSPARENT FINISH: COMPLY WITH REQUIREMENTS INDICATED BELOW FOR GRADE, FINISH SYSTEM, STAINING, AND SHEEN, WITH SHEEN MEASURED ON 60- DEGREE GLOSS METER PER ASTM D 523:
1. GRADE: CUSTOM, UNLESS NOTED OTHERWISE.
2. AIA FINISH SYSTEM: T-6, CONVERSION VARNISH, UNLESS OTHERWISE INDICATED.
3. STAINING: MATCH APPROVED SAMPLE FOR COLOR.
4. WASH COAT: FOR STAINED FINISH, APPLY A VINYL ALKYL WASH COAT TO WOODWORK MADE FROM CLOSED-GRAIN WOOD BEFORE STAINING AND FINISHING.
5. OPEN-GRAIN WOODS: UNLESS OTHERWISE INDICATED, AFTER STAINING (IF ANY), APPLY PASTE WOOD FILLER TO OPEN-GRAIN WOODS AND WIPE OFF EXCESS. TINT FILLER TO MATCH STAINED WOOD.
6. SHEEN: SATIN, 30-50 GLOSS UNITS.
- D. OPAQUE FINISH: COMPLY WITH REQUIREMENTS INDICATED BELOW FOR GRADE, FINISH SYSTEM, COLOR EFFECT, AND SHEEN, WITH SHEEN MEASURED ON 60-DEGREE GLOSS METER PER ASTM D 523.
1. GRADE: CUSTOM.
2. AIA FINISH SYSTEM: OP-6, CATALYZED POLYURETHANE, UNLESS OTHERWISE NOTED.
3. COLOR: MATCH APPROVED SAMPLE FOR COLOR.
4. SHEEN: SATIN, 30-50 GLOSS UNITS.

1.5 INSTALLATION

- A. CONDITION WOODWORK TO AVERAGE PREVAILING HUMIDITY CONDITIONS IN INSTALLATION AREAS AND FABRICATE FRAMES WITH FACE DIMENSION COMPLYING WITH ANSI 250.15 (LUMBER) AND ANSI A250.4 FOR PHYSICAL ENDURANCE LEVEL B. PROVIDE SHEET STEEL PLASTER GUARDS OR MORTAR BOXES TO CLOSE OFF INTERIOR OF OPENINGS.
- B. FABRICATE STEEL DOORS AND FRAMES TO COMPLY WITH ANSI A250.8 AND THE FIRE AND SMOKE LABEL REQUIREMENTS INDICATED. PROVIDE VEIL 1/8" IN 2" AT ALL LOCK AND HINGE EDGES. PREPARE DOORS AND FRAMES TO RECEIVE MORTISED AND CONCEALED HARDWARE. COMPLY WITH APPLICABLE REQUIREMENTS IN ANSI A250.8 AND ANSI A115. SERIES SPECIFICATIONS FOR DOOR AND FRAME PREPARATION AND HARDWARE.
- C. PRIME ALL DOORS AND FRAMES WITH MANUFACTURER'S STANDARD, FACTORY-APPLIED, BAKED ON, COAT OF RUST-INHIBITING PRIMER COMPLYING WITH ANSI A250.10.
1. FIRE-RATED DOOR ASSEMBLIES: ASSEMBLIES COMPLYING WITH NFPA 80 THAT ARE LISTED AND LABELED BY A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, FOR FIRE-PROTECTION RATINGS INDICATED, BASED ON TESTING ACCORDING TO NFPA 252, 1997 UBC STANDARD 7-2 "FIRE TEST OF DOOR ASSEMBLIES," AND 1997 UBC STANDARD 7-4 "FIRE TEST OF WINDOW ASSEMBLIES," AND UL 10C STANDARD FOR POSITIVE PRESSURE FIRE TESTS OF DOOR ASSEMBLIES. FIRE CLASSIFICATION LABELS AT ALL DOORS WITH FIRE RATINGS GREATER THAN 20 MINUTES SHALL INDICATE THE TEMPERATURE RISE DEVELOPED ON THE UNEXPOSED SURFACE OF THE DOOR AFTER THE FIRST 30 MINUTES OF FIRE EXPOSURE.
- a. TEMPERATURE-RISE RATING: WHERE INDICATED, PROVIDE DOORS THAT HAVE A TEMPERATURE-RISE RATING OF 450 DEG F MAXIMUM IN 30 MINUTES OF FIRE EXPOSURE.
- b. PROVIDE FIRE RATED DOOR ASSEMBLIES IN COMPLIANCE WITH 1997 UBC STANDARD 7-2, PART 1 FOR POSITIVE PRESSURE. SIZES AND CONFIGURATIONS AS SHOWN ON THE DRAWINGS. INSTALLED DOOR ASSEMBLIES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S CERTIFIED ASSEMBLIES.
- c. PROVIDE FIRE RATED DOOR ASSEMBLIES WITH SMOKE AND DRAFT CONTROL, RATING IN COMPLIANCE WITH 1997 UBC STANDARD 7-2 PART 2 AT CORRIDORS, AND STAIRWELLS, AND WHERE REQUIRED BY APPLICABLE CODES, SIZES AND CONFIGURATIONS AS SHOWN ON THE DRAWINGS. INSTALLED DOOR ASSEMBLIES SHALL BE IN ACCORDANCE WITH DOOR MANUFACTURERS CERTIFIED ASSEMBLIES.
- D. FRAME CONSTRUCTION:
1. FABRICATE FRAMES WITH MITERED OR COPED AND CONTINUOUSLY WELDED CORNERS AND SEAMLESS FACE JOINTS THAT ARE IN TRUE ALIGNMENT. DRESS WELDED JOINTS ON EXPOSED SURFACES SMOOTH SO WELDS ARE INVISIBLE AFTER PAINTING. PROVIDE TEMPORARY SPREADER BARS.
2. FABRICATE KNOCK-DOWN FRAMES WITH MITERED OR COPED CORNERS, HAVING A SINGLE RETURNED BACKGROUND FOR FIELD ASSEMBLY. FRAMES SHALL BE SPLINED, TABBED AND MITER FIT, WITH HAIRLINE JOINTS AND FACE JOINTS IN TRUE ALIGNMENT. FRAMES SHALL BE PROVIDED WITH CONCEALED MECHANICAL COMPRESSION ANCHORS AT TOP OF EACH JAMB AND EACH JAMB SHALL BE PREPARED AND PROVIDED WITH PROVISION FOR CONCEALED BASE ANCHORAGE AT FLOOR LINE OF JAMB RETURN FACE. MITER AND ANCHORAGE TYPE SUBJECT TO THE ACCEPTANCE OF THE ARCHITECT.
3. FABRICATE KNOCK-DOWN, DRYWALL SLIP-ON FRAMES HAVING A DOUBLE RETURNED BACKGROUND FOR IN-PLACE GYPSUM BOARD PARTITIONS. FRAMES SHALL BE SPLINED, TABBED AND MITER FIT, WITH HAIRLINE JOINTS AND FACE JOINTS IN TRUE ALIGNMENT. FRAMES SHALL BE PROVIDED WITH CONCEALED MECHANICAL COMPRESSION ANCHORS AT TOP OF EACH JAMB AND EACH JAMB SHALL BE PREPARED AND PROVIDED WITH PROVISION FOR CONCEALED BASE ANCHORAGE AT FLOOR LINE OF JAMB RETURN FACE. MITER AND ANCHORAGE TYPE SUBJECT TO THE ACCEPTANCE OF THE ARCHITECT.

1.2 EXECUTION

- A. INSTALL THROUGH-PENETRATION FIRESTOP SYSTEMS TO COMPLY WITH FIRESTOP SYSTEM MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, INSTALL PRIMERS AND ACCESSORIES REQUIRED TO ACHIEVE FIRE RATINGS.

SECTION 07 84 13 - PENETRATION FIRESTOPPING (CONT.)

- B. INSPECTION: DO NOT COVER UP THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATIONS THAT WILL BECOME CONCEALED BEHIND OTHER CONSTRUCTION UNTIL BUILDING INSPECTOR HAS EXAMINED EACH INSTALLATION, WHERE DEFICIENCIES ARE FOUND, REPAIR OR REPLACE THROUGH-PENETRATION FIRESTOP SYSTEMS SO THEY COMPLY WITH REQUIREMENTS.
- C. AT PROJECT CLOSEOUT, SUBMIT A LIST OF SYSTEMS INSTALLED, THE UL DESIGN DESIGNATIONS, AND THE LOCATION OF EACH SYSTEM. THE SUBMITTAL MUST HAVE THE INSTALLER'S SIGNATURE.
- D. LABEL THROUGH-PENETRATION FIRESTOP SYSTEMS WITH PRESSURE-SENSITIVE, SELF-ADHESIVE, PREPRINTED VINYL LABELS. ATTACH LABELS PERMANENTLY TO SURFACES OF PENETRATED CONSTRUCTION ON BOTH SIDES OF EACH FIRESTOP SYSTEM INSTALLATION WHERE LABELS WILL BE VISIBLE TO ANYONE SEEKING TO REMOVE PENETRATING ITEMS OR FIRESTOP SYSTEMS. INCLUDE THE FOLLOWING INFORMATION ON LABELS:
1. THE WORDS: "WARNING-THROUGH-PENETRATION FIRESTOP SYSTEM DO NOT DISTURB. NOTIFY BUILDING MANAGEMENT OF ANY DAMAGE."
2. CONTRACTOR'S NAME, ADDRESS, AND PHONE NUMBER.
3. THROUGH-PENETRATION FIRESTOP SYSTEM DESIGNATION OF APPLICABLE TESTING AND INSPECTING AGENCY.
4. DATE OF INSTALLATION.
5. THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER'S NAME.
6. INSTALLER'S NAME.

SECTION 07 84 46 - FIRE-RESISTIVE JOINT SYSTEMS

1.1 PRODUCTS

- A. FIRE-RESISTIVE JOINT SYSTEMS: FOR JOINTS IN THE FIRE RESISTANCE-RATED WALLS AND FLOORS, PROVIDE SYSTEMS THAT ARE PRODUCED AND INSTALLED TO RESIST SPREAD OF FIRE, RESIST PASSAGE OF SMOKE AND GASES, AND MAINTAIN ORIGINAL FIRE-RESISTANCE RATING OF ASSEMBLY IN WHICH FIRE-RESISTIVE JOINT SYSTEMS ARE INSTALLED.
- B. FIRE-RESISTIVE JOINT SYSTEMS SHALL BE UL-CERTIFIED AND LISTED IN THE UL FIRE RESISTANCE DIRECTORY UNDER PRODUCT CATEGORY XHBN.
- C. PERIMETER FIRE-CONTAINMENT SYSTEMS SHALL BE IDENTICAL TO THOSE TESTED PER BOTH UBC STANDARD 26-9 AND UL 2079.
- D. SUBMIT PRODUCT CERTIFICATES SIGNED BY MANUFACTURERS OF FIRE RESISTIVE JOINT SYSTEM PRODUCTS CERTIFYING THAT PRODUCTS FURNISHED COMPLY WITH REQUIREMENTS.

1.2 EXECUTION

- A. INSTALL FIRE-RESISTIVE JOINT SYSTEMS TO COMPLY WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- B. INSPECTION: DO NOT COVER JOINT INSTALLATIONS THAT WILL BECOME CONCEALED BEHIND OTHER CONSTRUCTION UNTIL BUILDING INSPECTOR HAS EXAMINED EACH INSTALLATION, WHERE DEFICIENCIES ARE FOUND, REPAIR OR REPLACE JOINT SYSTEMS SO THEY COMPLY WITH REQUIREMENTS.
- C. AT PROJECT CLOSEOUT, SUBMIT A LIST OF SYSTEMS INSTALLED, THE UL DESIGN DESIGNATIONS, AND THE LOCATION OF EACH SYSTEM. THE SUBMITTAL MUST HAVE THE INSTALLER'S SIGNATURE.

SECTION 07 92 23 - INTERIOR JOINT SEALANTS

1.1 PRODUCTS

- A. SEALANT COLORS: FOR FULLY CONCEALED JOINTS, PROVIDE THE MANUFACTURER'S STANDARD COLOR OF SEALANT WHICH HAS THE BEST OVERALL PERFORMANCE CHARACTERISTICS FOR THE APPLICATION SHOWN. FOR EXPOSED JOINTS, THE ARCHITECT WILL SELECT COLORS FROM THE MANUFACTURER'S STANDARD COLORS.
- B. SEALANTS FOR CONTACT WITH FOOD: DOW CORNING 786 MILDEW RESISTANT SILICONE SEALANT.
- C. HALOGEN-RESISTANT SILICONE SEALANT: PROVIDE SEALANT FOR JOINTS AT TOILET FIXTURES, PUBLIC TOILET ROOM COUNTERTOPS AND VANITIES, AND AT JANITOR CLOSET MOP RECEPTOR TO WALL TRANSITION; DOW CORNING 786 MILDEW RESISTANT SILICONE SEALANT; GE SILICONES SANITARY SCS 1700, OR PECORA CORPORATION 896 SILICONE SANITARY SEALANT.
- D. LATEX SEALANT: PECORA CORPORATION AC-20+ SILICONE, SONNEBORN BUILDING PRODUCTS DIV., CHEMREX, INC. SONOLASTIC SONOLAC, OR TREMCO, AN RPM CO. TREMFLEX 854.

1.2 EXECUTION

- A. PREPARE JOINTS AND INSTALL SEALANTS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE JOINT SEALANT MANUFACTURER.

1.3 JOINT SEALANT SCHEDULE

- A. INTERIOR JOINTS IN VERTICAL SURFACES AND HORIZONTAL NONTRAFFIC SURFACES: LATEX SEALANT.
- B. CONTROL AND EXPANSION JOINTS ON EXPOSED INTERIOR SURFACES OF EXTERIOR WALLS: LATEX SEALANT.
- C. PERIMETER JOINTS BETWEEN INTERIOR WALL SURFACES AND FRAMES OF INTERIOR DOORS, WINDOWS, AND ELEVATOR ENCLOSURES: LATEX SEALANT.
- D. TIE CONTROL JOINTS FOR STAINED FINISH: APPLY A VINYL ALKYL WASH COAT TO WOODWORK MADE FROM CLOSED-GRAIN WOOD BEFORE STAINING AND FINISHING.
- E. VERTICAL CONTROL JOINTS ON EXPOSED SURFACES OF INTERIOR UNIT MASONRY AND CONCRETE WALLS AND PARTITIONS: LATEX SEALANT.
- F. JOINTS ON UNDERSIDE OF PRECAST BEAMS AND PLANKS: LATEX SEALANT.
- G. PERIMETER JOINTS BETWEEN INTERIOR WALL SURFACES AND FRAMES OF INTERIOR DOORS, WINDOWS, AND ELEVATOR ENCLOSURES: LATEX SEALANT.
- H. JOINTS BETWEEN PLUMBING FIXTURES AND ADJOINING WALLS, FLOORS, AND COUNTERS: MILDEW RESISTANT SILICONE SEALAN.

DIVISION 08 DOORS & WINDOWS

SECTION 08 11 13 - HOLLOW METAL DOORS AND FRAMES

1.1 PRODUCTS

- A. USING STRETCHER LEVELED COLD ROLLED STEEL SHEET FABRICATE DOORS TO A THICKNESS OF 1-3/4" AND FABRICATE FRAMES WITH FACE DIMENSION COMPLYING WITH ANSI 250.15 (LUMBER) AND ANSI A250.4 FOR PHYSICAL ENDURANCE LEVEL B. PROVIDE SHEET STEEL PLASTER GUARDS OR MORTAR BOXES TO CLOSE OFF INTERIOR OF OPENINGS.
- B. FABRICATE STEEL DOORS AND FRAMES TO COMPLY WITH ANSI A250.8 AND THE FIRE AND SMOKE LABEL REQUIREMENTS INDICATED. PROVIDE VEIL 1/8" IN 2" AT ALL LOCK AND HINGE EDGES. PREPARE DOORS AND FRAMES TO RECEIVE MORTISED AND CONCEALED HARDWARE. COMPLY WITH APPLICABLE REQUIREMENTS IN ANSI A250.8 AND ANSI A115. SERIES SPECIFICATIONS FOR DOOR AND FRAME PREPARATION AND HARDWARE.
- C. PRIME ALL DOORS AND FRAMES WITH MANUFACTURER'S STANDARD, FACTORY-APPLIED, BAKED ON, COAT OF RUST-INHIBITING PRIMER COMPLYING WITH ANSI A250.10.
1. FIRE-RATED DOOR ASSEMBLIES: ASSEMBLIES COMPLYING WITH NFPA 80 THAT ARE LISTED AND LABELED BY A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, FOR FIRE

DIVISION 08 DOORS & WINDOWS (CONT.)

SECTION 08 41 26 - ALL-GLASS ENTRANCES AND STOREFRONTS (CONT.)

13	EXECUTION
A.	DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
B.	INSTALLATION: COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PROTECTING, HANDLING, AND INSTALLING ENTRANCE AND STOREFRONT SYSTEMS. DO NOT INSTALL DAMAGED COMPONENTS. FIT FRAME JOINTS TO PRODUCE HORIZONTAL JOINTS FREE OF BURRS AND DISTORTION.
C.	ENTRANCE DOORS: ADJUST DOORS TO OPERATE SMOOTHLY, WITHOUT BINDING, WITH HARDWARE FUNCTIONING PROPERLY.
D.	DOOR HARDWARE: REFER TO DRAWINGS. USE CONCEALED FASTENERS TO GREATEST EXTENT POSSIBLE. ALIGNMENT: WHERE SURFACES ABUT IN LINE, LIMIT OFFSET FROM TRUE ALIGNMENT TO 1/16 INCH. WHERE SURFACES MEET AT CORNERS, LIMIT OFFSET FROM TRUE ALIGNMENT TO 1/16 INCH.
F.	CLEANING: <ol style="list-style-type: none">CLEAN METAL SURFACES PROMPTLY AFTER INSTALLATION, EXERCISING CARE TO AVOID DAMAGE TO FACTORY FINISHED EXPOSED SURFACES IMMEDIATELY REMOVE ANY DELETERIOUS MATERIAL FROM SURFACES OF ALUMINUM.WASH GLASS ON BOTH FACES.PROTECTION: ENSURE THAT ARCHITECTURAL METAL ENTRANCE WORK WILL BE WITHOUT DAMAGE OR DETERIORATION, AT TIME OF ACCEPTANCE.

SECTION 08 71 00 - DOOR HARDWARE

1.1	PRODUCTS
A.	DOOR HARDWARE, GENERAL: PROVIDE DOOR HARDWARE FOR EACH DOOR TO COMPLY WITH REQUIREMENTS IN THIS SECTION. PROVIDE QUANTITY, ITEM SIZE, FINISH OR COLOR INDICATED, AND NAMED MANUFACTURER'S PRODUCTS. THE HARDWARE SUPPLIER SHALL REVIEW EACH HARDWARE SET AND COMPARE IT WITH THE DOOR TYPES, DETAILS, AND SIZES AS SHOWN AND VERIFY EACH HARDWARE ITEM FOR FUNCTIONAL, HAND, BACKSET, AND METHOD OF FASTENING.
B.	GENERAL HINGE AND PIVOT CHARACTERISTICS: WHERE DOOR JAMB OR TRIM PROJECTS TO SUCH AN EXTENT THAT THE WIDTH OF LEAF SPECIFIED WILL NOT ALLOW THE DOOR TO CLEAR SHIELD OR TRIM, FURNISH HINGES AND PIVOTS WITH LEAVES OF SUFFICIENT WIDTH TO CLEAR. ALL HINGES AND PIVOTS SHALL BE FULL MORTISED. ALL BUTT HINGES SHALL BE HAVE NON-RISING PINS. ALL BUTT HINGES SHALL BE FURNISHED WITH BUTTON TIPS.
C.	REFER TO DOOR SCHEDULE FOR HARDWARE GROUPS.
12	EXECUTION
A.	GENERAL: HARDWARE FOR FIRE DOOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 80. HARDWARE FOR SMOKE CONTROL DOOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 105. INSTALL HARDWARE FOR NON-LABELLED AND NON-SMOKE DOOR ASSEMBLIES IN ACCORDANCE WITH 415 (FOR STEEL DOORS AND FRAMES, 415-WOOD) SERIES FOR WOOD DOORS, AND HARDWARE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR DOORS AND FRAMES FABRICATED FROM OTHER THAN STEEL OR WOOD.
B.	SMOKE SEALS AT LABELED DOOR ASSEMBLIES: PROVIDE AND INSTALL SMOKE SEALS AT LABELED DOORS IN ACCORDANCE WITH DOOR MANUFACTURERS INSTRUCTIONS FOR DOOR OPENINGS WHICH MUST COMPLY WITH UBC 7-2 AND UL 100.
C.	MOUNTING HEIGHTS: MOUNT DOOR HARDWARE UNITS AT THE FOLLOWING HEIGHTS, UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR REQUIRED TO COMPLY WITH GOVERNING REGULATIONS.
D.	LOCKS AND LATCHES: 38 INCHES TO CENTER OF LEVER FROM FINISH FLOOR.
E.	DOOR PULLS: 48 INCHES FROM FINISH FLOOR TO CENTER OF GRIP. PULL BASES CENTERED ON DOOR STILES, UNLESS OTHERWISE INDICATED.
F.	PUSH PLATES: 44 INCHES FROM FINISH FLOOR TO CENTER OF PLATE. COORDINATE WITH PULL LOCATION.
G.	HORIZONTAL PUSH/PULL BAR: 42 INCHES FROM FINISH FLOOR TO CENTER OF PULL/PULL. PUSH/PULL BASES CENTERED ON DOOR STILES, UNLESS OTHERWISE INDICATED.
H.	BUTT HINGES: 10 INCHES TO BOTTOM OF LOWEST HINGE FROM FINISH FLOOR. 5 INCHES TO TOP OF UPPER HINGE FROM TOP OF DOOR. SPACE INTERMEDIATE HINGES EQUALLY BETWEEN LOWER AND UPPER HINGES.
I.	DEADLOCKS: NOT MORE THAN 44 INCHES FROM FINISH FLOOR TO OPERATING TRIM.
J.	FLUSH BOLT OPERATING MECHANISMS: TOP BOLT 86 TO 72 INCHES FROM FINISH FLOOR, BOTTOM BOLT 12 INCHES FROM FINISH FLOOR.
K.	INSTALL OVERHEAD SURFACE CLOSERS FOR MAXIMUM DEGREE OF OPENING OBTAINABLE. PLACE ON ROOM SIDE OF CORRIDOR DOORS, STAIR SIDE OF STAIR DOORS, SECONDARY CORRIDOR SIDE OF DOORS BETWEEN CORRIDORS, WHERE CUTTING AND FITTING ARE REQUIRED TO INSTALL DOOR HARDWARE ONTO OR INTO SURFACES THAT ARE NOT TO BE FINISHED, COORDINATE REMOVAL, STORAGE, AND REINSTALLATION OF SURFACE PROTECTIVE TRIM UNITS WITH FINISHING WORK SPECIFIED IN DIVISION 9 SECTIONS. DO NOT INSTALL SURFACE MOUNTED ITEMS UNTIL FINISHES HAVE BEEN COMPLETED ON SUBSTRATES INVOLVED.
L.	DO NOT INSTALL PERMANENT KEY CYLINDERS IN LOCKS UNTIL THE TIME OF PRELIMINARY ACCEPTANCE BY THE OWNER. AT THE TIME OF PRELIMINARY ACCEPTANCE, AND IN THE PRESENCE OF THE OWNERS REPRESENTATIVE, PERMANENT KEY ALL LOCK CYLINDERS.
M.	ADJUSTING: ADJUST AND CHECK EACH OPERATING ITEM OF DOOR HARDWARE AND EACH DOOR TO ENSURE PROPER OPERATION OR FUNCTION OF EVERY HARDWARE COMPONENT.

SECTION 08 80 00 - GLAZING

1.1	PRODUCTS
A.	GLASS PERFORMANCE: <ol style="list-style-type: none">PROVIDE AND INSTALL GLAZING SYSTEMS CAPABLE OF WITH-STANDING THERMAL MOVEMENT AND IMPACT LOADS WITHOUT FAILURE OF ANY KIND. GLASS THICKNESSES AND HEAT TREATMENTS INDICATED ARE MINIMUM REQUIREMENTS. GLAZING DETAILS SHOWN ARE FOR CONVENIENCE OF DETAILING ONLY AND ARE TO BE CONFIRMED BY THE CONTRACTOR RELATIVE TO CITED STANDARDS AND FINAL FRAMING DETAILS.SAFETY GLASS: COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE LAWS, CODES, ORDINANCES AND REGULATIONS OF FEDERAL AND MUNICIPAL AUTHORITIES HAVING JURISDICTION, WHEREVER REQUIREMENTS CONFLICT THE MORE STRINGENT SHALL BE REQUIRED. AS A MINIMUM PROVIDE CATEGORY II MATERIALS COMPLYING WITH TESTING REQUIREMENTS IN 16 CFR 1201 (CONSUMER PRODUCT SAFETY COMMISSION "SAFETY STANDARD FOR ARCHITECTURAL GLAZING MATERIALS," AS PUBLISHED IN THE CODE OF FEDERAL REGULATIONS, AND ASTM 297.1.GLAZING STANDARDS: COMPLY WITH GANA'S "GLAZING MANUAL" AND "LAMINATED GLASS DESIGN GUIDE."
B.	GLASS TYPES: REFER TO THE DRAWINGS FOR THE EXTENT OF GLASS TYPES AND LOCATIONS. <ol style="list-style-type: none">FULLY TEMPERED GLASS: PROVIDE GLASS COMPLYING WITH ASTM C1048 KIND FT.LAMINATED GLASS: COMPLY WITH ASTM C 1172 FOR KINDS OF LAMINATED GLASS INDICATED.
C.	GASKET AND GLAZING MATERIALS: COMPATIBLE WITH AND ADHERENT TO EACH MATERIAL IT WILL BE IN CONTACT WITH, AS RECOMMENDED BY THE MANUFACTURER TO FULFILL PERFORMANCE REQUIREMENTS.
D.	CLEANERS, PRIMERS AND SEALERS: TYPES RECOMMENDED BY SEALANT OR GASKET MANUFACTURER.
E.	FABRICATION: FABRICATE GLASS AND OTHER GLAZING PRODUCTS IN SIZES REQUIRED TO GLAZE OPENINGS INDICATED FOR PROJECT, WITH EDGE AND FACE CLEARANCES, EDGE AND SURFACE CONDITIONS, AND BITE COMPLYING WITH WRITTEN INSTRUCTIONS OF PRODUCT MANUFACTURER AND REFERENCED GLAZING STANDARD, TO COMPLY WITH SYSTEM PERFORMANCE REQUIREMENTS.
12	EXECUTION
A.	COMPLY WITH COMBINED WRITTEN INSTRUCTIONS OF MANUFACTURERS OF GLASS, SEALANTS, GASKETS, AND OTHER GLAZING MATERIALS, UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED, INCLUDING THOSE IN REFERENCED GLAZING PUBLICATIONS.

SECTION 08 81 13 - DECORATIVE GLASS GLAZING

1.1	PRODUCTS
A.	PATTERNED GLASS: REFER TO FINISH SCHEDULE.
B.	LAMINATED GLASS: REFER TO FINISH SCHEDULE.
C.	ACID-ETCHED GLASS: REFER TO FINISH SCHEDULE.
D.	SILK-SCREENED GLASS: REFER TO FINISH SCHEDULE.
E.	SANDBLASTED GLASS: REFER TO FINISH SCHEDULE.
F.	ACCESSORIES: <ol style="list-style-type: none">BEVELED GLASS ADHESIVE: CLEAN, NONYELLOWING, AS RECOMMENDED BY THE MANUFACTURER.GLAZING MATERIALS: PROVIDE GLAZING CLEANERS, PRIMERS, SEALERS, COMPOUNDS, SPACERS, SETTING BLOCKS, CLEAR POLYETHYLENE TACKING, SUITABLE FOR INTERIOR APPLICATIONS INDICATED AND WHICH ARE COMPATIBLE WITH EACH OTHER AND WITH MATERIALS THEY WILL CONTACT, INCLUDING GLASS PRODUCTS AND GLAZING CHANNEL SUBSTRATES. EXPOSED GLAZING MATERIALS SHALL BE BLACK.
12	EXECUTION
A.	CLEAN GLAZING CHANNELS AND OTHER FRAMING MEMBERS, RECEIVING GLASS IMMEDIATELY BEFORE GLAZING. COMPLY WITH COMBINED RECOMMENDATIONS OF MANUFACTURERS OF THE SPECIFIED GLASS AND GLAZING MATERIALS.

SECTION 08 83 00 - MIRRORRED GLASS

1.1	PRODUCTS
A.	SILVERED MIRRORRED GLASS: FABRICATE ALL MIRRORS FROM CLEAR ANNEALED TYPE 1, CLASS 1, QUALITY 02 GLASS WITH A SILVERING COATING COMPLYING WITH FS D4M-411. SEAL EDGES AFTER: EDGE TREATMENT TO PREVENT CHEMICAL OR ATMOSPHERIC PENETRATION OF GLASS COATING.
B.	SETTING BLOCKS: MIRROR FABRICATOR RECOMMENDED RUBBER COMPATIBLE WITH MIRROR COATINGS AND GLASS SEALS, 70 TO 80 SHORE A HARDNESS.
C.	MIRROR MASTIC: AN ADHESIVE SETTING COMPOUND, PRODUCED SPECIFICALLY FOR SETTING MIRRORRED GLASS BY SPOT APPLICATION.

SECTION 08 83 00 - MIRRORRED GLASS (CONT.)

D.	STAINLESS STEEL TOP AND BOTTOM TRIM: J-CHANNELS WITH RETURN THAT PRODUCES GLAZING CHANNEL TO ACCOMMODATE MIRRORRED GLASS THICKNESS INDICATED.
E.	FASTENERS, ANCHORS AND INSERTS: PROVIDE DEVICES AS REQUIRED FOR MIRROR HARDWARE INSTALLATION. PROVIDE TOOTHED OR LEAD-SHELD EXPANSION BOLT DEVICES FOR DRILLED-IN-PLACE ANCHORS. PROVIDE GALVANIZED ANCHORS AND INSERTS FOR APPLICATIONS ON INSIDE FACE OF EXTERIOR WALLS AND WHERE INDICATED.
1.2	EXECUTION
A.	INSTALL MIRRORRED GLASS WORK TO COMPLY WITH WRITTEN INSTRUCTIONS OF MIRRORRED GLASS MANUFACTURER, GANA "GLAZING MANUAL," AND NAAMM "MIRRORS," HANDLE WITH CARE, TIPS FOR THE PROFESSIONAL ON THE CARE AND HANDLING OF MIRRORS. MOUNT MIRRORRED GLASS ACCURATELY IN PLACE IN A MANNER THAT AVOIDS DISTORTING REFLECTED IMAGES.

DIVISION 09 FINISHES

SECTION 09 21 16 23 / 09 22 00 - GYPSUM BOARD AND SHAFT-WALL ASSEMBLIES

1.1	PRODUCTS
A.	FIRE-RESISTANCE-RATED ASSEMBLIES: TESTED PER ASTM E 119.
B.	STC-RATED ASSEMBLIES: ASTM E 90 AND CLASSIFIED PER ASTM E 413.
C.	STEEL FRAMING: ASTM C 754 AND ASTM C 645, NOT LESS THAN G40, HOT-DIP GALVANIZED.
D.	PARTITION, SOFFIT, AND SUSPENDED CEILING FRAMING: <ol style="list-style-type: none">MAXIMUM DEFLECTION OF 1/240 AT 5 LB/SQ. FT. MINIMUM; 1/360 AT CEILINGS AND TILE BACKING PANELS.<ol style="list-style-type: none">ELEVATOR SHAFTS: MINIMUM PRESSURE DEPENDENT ON ELEVATOR VELOCITY AND NUMBER OF ELEVATORS PER SHAFT, ACCORDING TO UNITED STATES GYPSUM'S SYSTEM FOLDER SA-926.FLAT STRAP AND BACKING PLATE: 0.0312 INCH MINIMUM THICKNESS.TE WIRE: ASTM A 641, CLASS 1, SOFT TEMPER, 0.025-INCH DIAMETER WIRE.WIRE HANGERS: ASTM A 641, CLASS 1, SOFT TEMPER, 0.163 INCH DIAMETER.ROD HANGERS: ASTM A 510, MILD CARBON STEEL, 1/4-INCH DIAMETER ASTM A 163, HOT-DIP GALVANIZED.CAST-IN-PLACE, EXPANSION, AND ADHESIVE ANCHORS IN CONCRETE FABRICATED FROM CORROSION-RESISTANT MATERIALS CAPABLE OF SUPPORTING A LOAD EQUAL TO FIVE TIMES THAT IMPOSED BY CEILING CONSTRUCTION, TESTING PER ASTM E 488 OR ASTM E 1512.
E.	SUPPLEMENTARY FRAMING AROUND OPENINGS AND AS REQUIRED FOR BLOCKING, BRACING, AND SUPPORT OF GRAVITY AND PULL-OUT LOADS OF FIXTURES, EQUIPMENT, SERVICES, HEAVY TRIM, FURNISHINGS, AND SIMILAR ITEMS THAT CANNOT BE SUPPORTED DIRECTLY BY FRAMING.
F.	GYPSUM WALLBOARD AND SHAFT-WALL: ASTM C 36.
G.	SAG-RESISTANT GYPSUM WALLBOARD: ASTM C 36. APPLY ON CEILING SURFACES.
H.	TILE BACKING PANELS: <ol style="list-style-type: none">WATER-RESISTANT GYPSUM BACKING BOARD: ASTM C 630.GLASS-MAT, WATER-RESISTANT BACKING BOARD: ASTM C 1178.CEMENTITIOUS BACKER UNITS: ANSI A18.9.
I.	INTERIOR TRIM AND JOINT TREATMENT: ASTM C 1047 AND ASTM C 475.
J.	ACoustICAL SEALANT FOR EXPOSED AND CEILING OVER.
K.	ISOLATION STRIP AT EXTERIOR WALLS: ADHESIVE-BACKED CLOSED-CELL FOAM GASKET.
L.	SOUND ATTENUATION BLANKETS: ASTM C 665, TYPE I (BLANKETS WITHOUT MEMBRANE FACING).
1.2	EXECUTION
A.	STEEL FRAMING: ASTM C 754.
B.	GYPSUM BOARD: ASTM C 840 AND GA-216. <ol style="list-style-type: none">FINISH LEVEL 4: AT PANEL SURFACES THAT WILL BE EXPOSED TO VIEW, UNLESS OTHERWISE INDICATED.LEVEL 5: AT SURFACES RECEIVING GLOSS AND SEMI-GLOSS ENAMELS, AT SURFACES SUBJECT TO SEVERE LIGHTING, AND WHERE NOTED.
C.	ACoustICAL SEALANT: ASTM C 919.
D.	IN ELEVATOR SHAFTS: MAINTAIN 2 INCHES CLEARANCE FROM STRUCTURAL BEAMS, FLOOR EDGES, AND SIMILAR PROJECTIONS INTO SHAFT; COVER TOPS OF PROJECTIONS WITH SLOPED GYPSUM BOARD CANTS.

SECTION 09 27 12 - GLASS-REINFORCED GYPSUM FABRICATIONS

1.1	PRODUCTS
A.	SURFACE FLAME-SPREAD AND SMOKE-DEVELOPED INDICES OF 25 AND 450, RESPECTIVELY, PER ASTM E 84.
B.	STEEL FRAMING COMPONENTS AND INSTALLATION: PER GYPSUM BOARD ASSEMBLIES.
C.	GLASS-REINFORCED GYPSUM FABRICATIONS: ASTM C 135.
D.	JOINT TREATMENT MATERIALS AND FINISHING: PER GYPSUM BOARD ASSEMBLIES.
E.	CONTROL JOINTS: ASTM C 1047; ONE-PIECE, HOT-DIP GALVANIZED STEEL OR ZINC.
1.2	EXECUTION
A.	PREDRILL FASTENER HOLES. ATTACH GLASS-REINFORCED GYPSUM FABRICATIONS TO FRAMING AND SUBSTRATES WITH COUNTERSINK STEEL DRILL SCREWS, COVER SCREW HEADS WITH JOINT COMPOUND.
B.	ATTACH GLASS-REINFORCED GYPSUM FABRICATIONS AT JOINTS WITH MANUFACTURER'S ADHESIVE.

SECTION 09 30 00 - CERAMIC TILE

1.1	PRODUCTS
A.	TILE: REFER TO FINISH SCHEDULE.
B.	ANSI CERAMIC TILE STANDARD: ANSI A137.1, STANDARD GRADE.
C.	STATIC COEFFICIENT OF FRICTION, MINIMUM PER ASTM C 1028: 0.6 AT LEVEL SURFACES, 0.8 AT RAMPS.
D.	MARBLE THRESHOLDS: ASTM C 553 WITH A MINIMUM ABRASION RESISTANCE OF 12 PER ASTM C 1353 OR ASTM C 241 AND WITH HONED FINISH.
E.	WATERPROOFING AND CRACK-SUPPRESSION MEMBRANES FOR THIN-SET TILE INSTALLATIONS: MANUFACTURER'S STANDARD PRODUCT THAT COMPLIES WITH ANSI A18.10: <ol style="list-style-type: none">CUSTOM BUILDING PRODUCTS: TROWEL & SEAL WATERPROOFING AND ANTI-FRACTURE MEMBRANE.LATICRETE INTERNATIONAL INC.: LATICRETE 9235 WATERPROOF MEMBRANE.MAPEI CORPORATION: PRP M19.
F.	SETTING AND GROUTING PRODUCTS OF ONE OF THE FOLLOWING (CONFIRM COMPATIBILITY W/ PRODUCT): <ol style="list-style-type: none">CUSTOM BUILDING PRODUCTS.LATICRETE INTERNATIONAL INC.MAPEI CORPORATION.
G.	PORTLAND CEMENT MORTAR (THICKSET) INSTALLATION MATERIALS: ANSI A108.1A.
H.	LATEX-PORTLAND CEMENT MORTAR (THIN SET), ANSI A118.4.
I.	CHEMICAL-RESISTANT, WATER-CLEANABLE, EPOXY GROUT: ANSI A118.3, BY SAME MANUFACTURER OF MORTAR MATERIALS.
J.	POLYMER-MODIFIED TILE GROUT: ANSI A118.7.
K.	ELASTOMERIC SEALANTS: <ol style="list-style-type: none">ONE-PART, MILDEW-RESISTANT SILICONE: ASTM C 920; TYPE S; GRADE NS; CLASS 25; USES NT, G, A.MULTI-PART, POURABLE URETHANE SEALANT FOR USE T: ASTM C 920; TYPE M; GRADE P; CLASS 25; USES T, M, A.
L.	TROWELABLE UNDERLAYMENTS AND PATCHING COMPOUNDS: LATEX-MODIFIED, PORTLAND CEMENT-BASED FORMULATION PROVIDED OR APPROVED BY MANUFACTURER OF TILE-SETTING MATERIALS.
M.	METAL EDGE STRIPS: STAINLESS STEEL, ASTM A 666, 300 SERIES.
N.	GROUT SEALER: MANUFACTURER'S STANDARD SILICONE PRODUCT.
1.2	EXECUTION
A.	ANSI TILE INSTALLATION STANDARDS: COMPLY WITH PARTS OF ANSI A108 SERIES "SPECIFICATIONS FOR INSTALLATION OF CERAMIC TILE" THAT APPLY TO TYPE OF SETTING AND GROUTING MATERIALS AND TO METHODS INDICATED IN CERAMIC TILE INSTALLATION SCHEDULES.
B.	TCOA INSTALLATION GUIDELINES: TCAS "HANDBOOK FOR CERAMIC TILE INSTALLATION," COMPLY WITH TCOA INSTALLATION METHODS INDICATED.
C.	GROUT TILE TO COMPLY WITH ANSI A108.10. FOR CHEMICAL-RESISTANT EPOXY GROUTS, COMPLY WITH ANSI A108.6.
D.	CRACK ISOLATION MEMBRANE: ANSI A118.10 AND MEMBRANE MANUFACTURER'S WRITTEN INSTRUCTIONS.
E.	WATERPROOFING: ANSI A108.13 AND WATERPROOFING MANUFACTURER'S WRITTEN INSTRUCTIONS. DO NOT INSTALL TILE OVER WATERPROOFING UNTIL CURED AND TESTED TO BE WATER-TIGHT.
F.	PROVIDE 95 PERCENT MORTAR COVERAGE PER ANSI A108 SERIES FOR TILE FLOOR INSTALLATIONS IN WET AREAS, FOOD PREP AREAS, TILES 8 BY 8 INCHES OR LARGER, AND RIB-BACKED TILES.
G.	STONE THRESHOLDS: SET IN LATEX-PORTLAND CEMENT MORTAR.
H.	APPLY GROUT SEALER TO GROUT JOINTS IN TILE FLOORS.

SECTION 09 30 33 - DIMENSION STONE TILE

1.1	PRODUCTS
A.	STONE TILE: REFER TO FINISH SCHEDULE.
B.	STATIC COEFFICIENT OF FRICTION, MINIMUM PER ASTM C 1028: 0.6 AT LEVEL SURFACES, 0.8 AT RAMPS.
C.	FLOOR TILE, GENERAL: ABRASION RESISTANCE: MINIMUM VALUE OF 12, AS DETERMINED PER ASTM C 1353 OR ASTM C 241.
D.	WATERPROOFING AND CRACK-SUPPRESSION MEMBRANES FOR THIN-SET TILE INSTALLATIONS: MANUFACTURER'S STANDARD PRODUCT THAT COMPLIES WITH ANSI A18.10: <ol style="list-style-type: none">CUSTOM BUILDING PRODUCTS: TROWEL & SEAL WATERPROOFING AND ANTI-FRACTURE MEMBRANE.LATICRETE INTERNATIONAL INC.: LATICRETE 9235 WATERPROOF MEMBRANE.MAPEI CORPORATION: PRP M19.

SECTION 09 30 33 - DIMENSION STONE TILE (CONT.)

E.	SETTING AND GROUTING PRODUCTS OF ONE OF THE FOLLOWING: <ol style="list-style-type: none">CUSTOM BUILDING PRODUCTS.LATICRETE INTERNATIONAL INC.MAPEI CORPORATION.
F.	PORTLAND CEMENT MORTAR (THICKSET) INSTALLATION MATERIALS: ANSI A108.1A.
G.	LATEX-PORTLAND CEMENT MORTAR (THIN SET), ANSI A118.4.
H.	THIN-SET MORTAR: ANSI A118.1; NONSAGGING DRY-SET PORTLAND CEMENT FOR WALL TILES LARGER THAN 12 BY 12 INCHES.
I.	MEDIUM-BED, LATEX-PORTLAND CEMENT MORTAR: ANSI A118.4 FOR ALL FLOOR TILES LARGER THAN 12-BY-12 INCHES.
J.	SETTING ADHESIVE: ANSI A118.4; WATER-CLEANABLE EPOXY. USE FOR INSTALLATION OF STONES THAT ARE SENSITIVE TO MOISTURE, IN PARTICULAR, GREEN AND BLACK MARBLES, ROSSO LEVANTO AND AGGLOMERATE STONES. VERIFY WITH SUPPLIER FOR MOISTURE SENSITIVITY.
K.	CHEMICAL-RESISTANT, WATER-CLEANABLE, EPOXY GROUT: ANSI A118.3, BY SAME MANUFACTURER OF MORTAR MATERIALS.
L.	GROUT MATERIALS: PROVIDED OR APPROVED BY MANUFACTURER OF LATEX MORTAR MATERIALS: <ol style="list-style-type: none">GROUT FOR JOINTS 1/8 INCH AND NARROWER: ANSI A118.6 UNSANDED LATEX-PORTLAND CEMENT.GROUT FOR JOINTS WIDER THAN 1/8 INCH: ANSI A118.6 SANDED LATEX-PORTLAND CEMENT.
M.	POLYMER-MODIFIED TILE GROUT: ANSI A118.7.
N.	<ol style="list-style-type: none">ONE-PART, MILDEW-RESISTANT SILICONE: ASTM C 920; TYPE S; GRADE NS; CLASS 25; USES NT, G, A.MULTI-PART, POURABLE URETHANE SEALANT FOR USE T: ASTM C 920; TYPE M; GRADE P; CLASS 25; USES T, M, A.
O.	TROWELABLE UNDERLAYMENTS AND PATCHING COMPOUNDS: LATEX-MODIFIED, PORTLAND CEMENT-BASED FORMULATION PROVIDED OR APPROVED BY MANUFACTURER OF TILE-SETTING MATERIALS.
P.	METAL EDGE STRIPS: STAINLESS STEEL, ASTM A 666, 300 SERIES.
Q.	GROUT SEALER: MANUFACTURER'S STANDARD SILICONE PRODUCT.
R.	SEALER FOR FLOORS: COLORLESS, SLIP- AND STAIN-RESISTANT SEALER, NOT AFFECTING COLOR OR PHYSICAL PROPERTIES OF STONE SURFACES AS RECOMMENDED BY STONE TILE MANUFACTURER.

1.2	EXECUTION
A.	LAY OUT TILE PATTERNS AND NOTIFY ARCHITECT 7 DAYS IN ADVANCE OF WHEN LAYOUT WILL BE DONE. OBTAIN ARCHITECT'S APPROVAL BEFORE STARTING TILE INSTALLATION.
B.	FIELD-APPLIED TEMPORARY PROTECTIVE COATING: WHERE NEEDED TO PREVENT GROUT FROM STAINING OR ADHERING TO EXPOSED TILE SURFACES, PRECOAT TILES WITH CONTINUOUS FILM OF TEMPORARY PROTECTIVE COATING, TAKING CARE NOT TO COAT UNEXPOSED TILE SURFACES.
C.	TCOA INSTALLATION GUIDELINES: TCAS "HANDBOOK FOR CERAMIC TILE INSTALLATION," COMPLY WITH TCOA INSTALLATION METHODS INDICATED.
D.	GROUT TILE TO COMPLY WITH ANSI A108.10. FOR CHEMICAL-RESISTANT EPOXY GROUTS, COMPLY WITH ANSI A108.6.
E.	MATCH TILES WITH EACH SPACE BY SELECTING TILES TO ACHIEVE UNIFORMITY OF COLOR AND PATTERN. REPAIR DISCREPANCIES THAT DO NOT MATCH COLOR AND PATTERN OF ADJACENT TILES.
F.	MIX TILES TO ACHIEVE A UNIFORM, RANDOM DISTRIBUTION OF COLOR SHADINGS AND PATTERNS.
G.	ORIENT TILES WITH GRAIN DIRECTION AS INDICATED OR, IF NOT INDICATED, AS DIRECTED.
H.	EXPANSION- AND CONTROL JOINT INSTALLATION METHOD: COMPLY WITH TCOA EJ171.
I.	BUTTER BACKS OF JOINTS WITH SETTING MATERIAL BEFORE SETTING, AND PLACE TILES BEFORE BACK BUTTERING.
J.	MOVEMENT JOINTS: LOCATE MOVEMENT JOINTS AND OTHER SEALANT-FILLED JOINTS DURING INSTALLATION OF SETTING MATERIALS, MORTAR BEDS, AND TILE. DO NOT SAW-CUT JOINTS AFTER INSTALLING TILES. <ol style="list-style-type: none">LOCATE JOINTS IN TILE SURFACES DIRECTLY ABOVE JOINT IN CONCRETE SUBSTRATES.USE ONE-PART, MILDEW-RESISTANT SILICONE JOINT SEALANT AT COUNTERTOPS, SHOWER ENCLOSURES AND VERTICAL SURFACES.USE MULTIPART, POURABLE URETHANE JOINT SEALANT AT HORIZONTAL TRAFFIC SURFACES.
K.	VARIATION FROM PLUMB: FOR VERTICAL JOINTS, EXTERNAL CORNERS, AND OTHER CONSPICUOUS LINES, MAXIMUM 1/8 INCH IN 8 FEET.
L.	VARIATION IN LEVEL: FOR HORIZONTAL JOINTS, AND OTHER CONSPICUOUS LINES, DO NOT EXCEED 1/4 INCH IN 20 FEET, OR 1/2 INCH MAXIMUM.
M.	VARIATION IN SURFACE PLANE OF FLOORING: DO NOT EXCEED 1/8 INCH IN 10 FEET FOR LOW LEVEL OR SLOPE INDICATED WHEN TESTED WITH A 10-FOOT STRAIGHTEDGE.
N.	VARIATION IN PLANE BETWEEN ADJACENT UNITS (LIPPING): DO NOT EXCEED THE FOLLOWING DIFFERENCES BETWEEN FACES OF ADJACENT UNITS AS MEASURED FROM A STRAIGHTEDGE PARALLEL TO THE TILED SURFACE: <ol style="list-style-type: none">UNITS WITH POLISHED OR HONED FACES: 1/64 INCH.UNITS WITH SMOOTH-RUBBED FACES: 1/32 INCH.UNITS WITH THERMAL-FINISHED OR NATURAL-CLEFT FACES: DEPTH OF FINISH OR 3/16 INCH, WHICHEVER IS LESS.
O.	VARIATION IN JOINT WIDTH: DO NOT VARY JOINT THICKNESS MORE THAN 1/16 INCH OR ONE-FOURTH OF NOMINAL JOINT WIDTH, WHICHEVER IS LESS.
P.	REMOVE AND REPLACE MATERIAL THAT IS STAINED OR OTHERWISE DAMAGED OR THAT DOES NOT MATCH ADJOINING TILE.
Q.	PPLY SEALER TO CLEANED STONE TILE FLOORING, ACCORDING TO SEALER MANUFACTURER'S WRITTEN INSTRUCTIONS.

SECTION 09 31 23 - ACOUSTICAL PANEL AND TILE CEILINGS

1.1	PRODUCTS
A.	PRODUCTS: AS INDICATED IN FINISH SCHEDULE.
B.	ACOUSTICAL PANEL STANDARD: ASTM E 1264, SURFACE-BURNING CLASS A.
C.	METAL SUSPENSION SYSTEM STANDARD: ASTM C 635.
D.	ATTACHMENT DEVICES: SIZE FOR FIVE TIMES THE DESIGN LOAD INDICATED IN ASTM C 635, TABLE 1, DIRECT HUNG.
E.	CAST-IN-PLACE EXPANSION, AND ADHESIVE ANCHORS: CORROSION-RESISTANT MATERIALS CAPABLE OF SUPPORTING A LOAD EQUAL TO FIVE TIMES THAT IMPOSED BY CEILING CONSTRUCTION, TESTING PER ASTM E 488 OR ASTM E 1512.
F.	WIRE HANGERS, BRACES, AND TIES: ASTM A 641, CLASS 1, SOFT TEMPER, DIAMETER SO STRESS AT THREE TIMES HANGER DESIGN LOAD AND TIES C 635, TABLE 1, DIRECT HUNG) IS LESS THAN YIELD STRESS OF WIRE, BUT NOT LESS THAN 1.06-INCH.
G.	ROD HANGERS: ASTM A 510, MILD CARBON STEEL, 1/4-INCH DIAMETER, ASTM A 153A 153M, HOT-DIP GALVANIZED.
H.	SEISMIC STRUTS AND SEISMIC CLIPS.
I.	SHEET METAL EDGE MOLDINGS AND TRIM: SAME MATERIAL, FINISH, AND COLOR AS EXPOSED FLANGES OF SUSPENSION SYSTEM.
J.	ACOUSTICAL PANEL COLOR: WHITE, LR NOT LESS THAN 0.75, UNLESS OTHERWISE INDICATED.
K.	NRC AND SAC: MEET OR EXCEED PERFORMANCE OF SCHEDULED PRODUCT.
L.	CEILING CONSTRUCTION: UNLESS OTHERWISE INDICATED, PROVIDE PREPAINTED, ELECTROLYTICALLY ZINC COATED, HOT-DIP GALVANIZED, ACCORDING TO ASTM A 653A 653M, NOT LARGER THAN C30 COATING DESIGNATION, INTERMEDIATE DUTY, UNLESS HEAVY-DUTY IS INDICATED OR REQUIRED FOR COATING DESIGN.
M.	ACCESS FOR CONCEALED SUSPENSION SYSTEM: DOWNWARD, UNLESS OTHERWISE INDICATED.

SECTION 09 63 40 - STONE FLOORING

1.1	EXECUTION
A.	INSTALLATION: ASTM C 636 OR UBC STANDARD 25-2 AS APPLICABLE.
B.	SEISMIC STANDARD: ASTM E 580, CISCA'S RECOMMENDATIONS FOR DIRECT-HUNG ACOUSTICAL TILE AND LAY-UP PANEL CEILINGS-SEISMIC ZONES 02-03 CAS "GUIDELINES FOR SEISMIC RESTRAINT OF DIRECT-HUNG SUSPENDED CEILING ASSEMBLIES-SEISMIC ZONES 3 & 4," OR UBC STANDARD 25-2 AS APPLICABLE.
1.2	PRODUCTS
A.	STATIC COEFFICIENT OF FRICTION, MINIMUM PER ASTM C 1028: 0.6 AT LEVEL SURFACES, 0.8 AT RAMPS.
B.	VARIETIES AND SOURCES: REFER TO FINISH SCHEDULE.
C.	REMOVE STONE THAT IS CRACKED, SEAMS, AND STARTS IMPAIRING STRUCTURAL INTEGRITY OR FUNCTION.
D.	PORTLAND CEMENT: ASTM A 150, TYPE I OR II. PROVIDE NATURAL COLOR OR WHITE CEMENT AS REQUIRED TO PRODUCE MORTAR COLOR INDICATED.
E.	HYDRATED LIME: ASTM C 207, TYPE S.
F.	LATEX-ADDITIONAL WATER EMULSION, SERVING AS REPLACEMENT FOR PART OF OR ALL LAGGING WATER, OF TYPE SPECIFICALLY RECOMMENDED BY LATEX-ADDITION MANUFACTURER FOR USE WITH JOB-MIXED PORTLAND CEMENT: ASTM C 150, TYPE I (OR II, PROVIDE NATURAL COLOR).
G.	WATER: POTABLE.
H.	LATEX-PORTLAND CEMENT GROUT: ANSI A118.6. <ol style="list-style-type: none">UNSANDED GROUT MIXTURE FOR JOINTS 1/8 INCH AND NARROWER.SANDED GROUT MIXTURE FOR JOINTS 1/8 INCH AND WIDER.MANUFACTURERS:<ol style="list-style-type: none">CUSTOM BUILDING PRODUCTS.LATICRETE INTERNATIONAL INC.MAPEI CORPORATION.
I.	CLEAVAGE MEMBRANE: POLYETHYLENE SHEETING, ASTM D 4397, 4.0 MILS THICK.
J.	REINFORCING WIRE FABRIC: GALVANIZED, WELDED WIRE FABRIC, 2 BY 2 INCHES BY 9.062-INCH DIAMETER, COMPLY WITH ASTM A 185 AND ASTM A 82 EXCEPT FOR MINIMUM WIRE SIZE; FOR USE IN SETTING BEDS OVER A CLEAVAGE MEMBRANE.
K.	CORK JOINT FILLER: PREFORMED STRIPS COMPLYING WITH ASTM D 1752, TYPE 1.
L.	CLEANER: STONE CLEANER SPECIFICALLY FORMULATED FOR STONE TYPES, FINISHES, AND APPLICATIONS INDICATED, AS RECOMMENDED BY STONE PRODUCER OR STONE FINISHER.
M.	ELASTOMERIC SEALANTS: MULTIPART, POURABLE URETHANE SEALANT FOR USE T: ASTM C 920; TYPE M; GRADE P; CLASS 25. PRODUCTS: PECORA CORPORATION: NR-200 UREX-PAN OR TREMO; INC.: TPC-300.
N.	FLOOR SEALER: COLORLESS, SLIP- AND STAIN-RESISTANT SEALER THAT DOES NOT AFFECT COLOR OR PHYSICAL PROPERTIES OF STONE SURFACES, AS RECOMMENDED BY STONE PRODUCER FOR APPLICATION INDICATED.

SECTION 09 63 40 - STONE FLOORING

O.	FABRICATION: <ol style="list-style-type: none">FOR GRANITE, COMPLY WITH RECOMMENDATIONS IN NBQGA'S "SPECIFICATIONS FOR ARCHITECTURAL GRANITE."FOR MARBLE, COMPLY WITH RECOMMENDATIONS IN MIA'S "DIMENSIONAL STONE-DESIGN MANUAL IV."FOR LIMESTONE, COMPLY WITH RECOMMENDATIONS IN ILS "INDIANA LIMESTONE HANDBOOK."
P.	PORTLAND CEMENT-LIME SETTING MORTAR: ASTM C 270, PROPORTION SPECIFICATION, TYPE N.
Q.	MORTAR BED BOND COAT: MIX NEAT CEMENT AND LATEX, ADDITIVE TO A CREAMY CONSISTENCY. JOINT GROUT: ANSI STANDARDS AND MANUFACTURER'S WRITTEN INSTRUCTIONS.
1.3	EXECUTION
A.	TOLERANCES FOR SMOOTH-FINISHED FLOORING: <ol style="list-style-type: none">VARIATION IN SURFACE PLANE OF FLOORING: DO NOT EXCEED 1/8 INCH IN 8 FEET, 1/4 INCH IN 16 FEET, OR 3/8 INCH MAXIMUM FROM LEVEL OR SLOPE INDICATED.VARIATION IN PLANE BETWEEN ADJACENT UNITS (LIPPING): DO NOT EXCEED 1/32-INCH DIFFERENCE BETWEEN PLANES OF ADJACENT UNITS.
B.	TOLERANCES FOR HEAVILY-TEXTURED FLOORING: <ol style="list-style-type: none">VARIATION IN SURFACE PLANE OF FLOORING: DO NOT EXCEED 1/4 INCH IN 8 FEET, 1/2 INCH IN 16 FEET, OR 1/2 INCH MAXIMUM FROM LEVEL OR SLOPE INDICATED.VARIATION IN PLANE BETWEEN ADJACENT UNITS (LIPPING): DO NOT EXCEED 3/16-INCH DIFFERENCE BETWEEN PLANES OF ADJACENT UNITS.
C.	PLACE CLEAVAGE MEMBRANE OVER SUBSTRATES INDICATED TO RECEIVE STONE, LAPPED AT LEAST 4 INCHES AT JOINTS.
D.	PLACE REINFORCING WIRE FABRIC OVER MEMBRANE, LAPPED AT LEAST ONE FULL MESH AT JOINTS AND SUPPORTED TO PRODUCE A SNUG FIT WITHOUT REMOVING MORE THAN HALF THE WALL BASE THICKNESS SURFACES APPROXIMATELY 1/2 INCH.
E.	PLACE MORTAR BED OVER MEMBRANE WITH REINFORCING WIRE FABRIC FULLY EMBEDDED IN MIDDLE OF MORTAR BED. SPREAD, TAMP, AND SCREED TO UNIFORM THICKNESS AT ELEVATIONS REQUIRED FOR SETTING STONE TO FINISHED ELEVATIONS INDICATED.
F.	MIX AND PLACE ONLY THAT AMOUNT OF MORTAR BED THAT CAN BE COVERED WITH STONE BEFORE INITIAL SET, CUT BACK, BEVEL EDGE, AND DISCARD MATERIAL THAT HAS REACHED INITIAL SET BEFORE STONE CAN BE PLACED.
G.	PLACE STONE BEFORE INITIAL SET OF MORTAR OCCURS. IMMEDIATELY BEFORE PLACING STONE ON SETTING BED, APPLY UNIFORM 1/16-INCH-THICK BOND COAT TO BED OR TO BACK OF EACH STONE UNIT.
H.	TAMP AND BEAT STONE TO OBTAIN FULL CONTACT WITH SETTING BED AND TO BRING FINISHED SURFACES TO FINISHED ELEVATION TOLERANCES. SET EACH UNIT IN A SINGLE OPERATION BEFORE INITIAL SET OF MORTAR. RAKE OUT JOINTS TO DEPTH REQUIRED TO RECEIVE GROUT AS UNITS ARE SET.
I.	SET THRESHOLDS IN THIN-SET, LATEX-PORTLAND CEMENT MORTAR TO COMPLY WITH ANSI A108.5 AT LOCATIONS WHERE MORTAR BED WOULD OTHERWISE BE EXPOSED ABOVE OTHER ADJACENT FLOORING.
K.	INSTALL STONE STAR TREADS TO COMPLY WITH INSTALLATION OF STONE DIRECTLY OVER CONCRETE ARTICLES.
L.	NOT USE STONE JOINTS TO COMPLY WITH ANSI A108.10 AND MANUFACTURER'S WRITTEN INSTRUCTIONS. DO NOT USE SANDED G

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DIVISION 09 FINISHES (CONT.)

SECTION 09 66 23 - EPOXY TERRAZZO

- D. COLOR AND PATTERN: REFER TO FINISH SCHEDULE.
- E. TOPPING THICKNESS: .38 INCH.
- F. CRACK REINFORCING MEMBRANE: MANUFACTURER'S RESINOUS MEMBRANE FOR SUBSTRATE CRACK.
- G. PREPARED AND REFLECTIVE CRACK REDUCTION WITH FIBERGLASS SCORM REINFORCEMENT.
- H. PRIMER: PRODUCT OF MANUFACTURER RECOMMENDED FOR SUBSTRATE AND USE INDICATED.
- I. EPOXY RESIN: MANUFACTURER'S STANDARD RECOMMENDED FOR USE INDICATED AND IN COLOR REQUIRED FOR MIX INDICATED.
- J. MARBLE CHIPS: COMPLYING WITH AMA STANDARDS AND OF TYPE AND IN GRADATION REQUIRED FOR MIX INDICATED.
- K. DIVIDER-STRIP ADHESIVE: EPOXY-RESIN ADHESIVE RECOMMENDED BY ADHESIVE MANUFACTURER FOR THIS USE AND ACCEPTABLE TO TERRAZZO MANUFACTURER.
- L. FINISHING GROUT: RESIN BASED.
- M. SEAL COAT: SLIP RESISTANT, THIN COAT TERRAZZO SEALER OF OR APPROVED BY TERRAZZO MANUFACTURER.
- N. HEAVY TOP DIVIDER STRIPS: ANGLE TYPE IN DEPTH REQUIRED FOR TOPPING THICKNESS INDICATED.
- O. CONTROL-JOINT STRIPS: SEPARATE, DOUBLE-L TYPE ANGLE, POSITIONED BACK TO BACK, THAT MATCH MATERIAL, THICKNESS, AND COLOR OF DIVIDER STRIPS AND IN DEPTH REQUIRED FOR TOPPING THICKNESS INDICATED.
- P. PATCHING AND FILL MATERIAL: RESINOUS PRODUCT OF OR APPROVED BY TERRAZZO MANUFACTURER AND RECOMMENDED BY MANUFACTURER FOR APPLICATION INDICATED.
- Q. ABRASIVE STRIPS: SILICON CARBIDE OR ALUMINUM OXIDE IN EPOXY-RESIN BINDER SEAL CHANNEL, 1/2 INCH WIDE BY DEPTH REQUIRED BY TERRAZZO THICKNESS AND MATCHING DIVIDER-STRIP MATERIAL.
- R. JOINT SEALANTS: RECOMMENDED BY TERRAZZO AND SEALANT MANUFACTURERS.
- S. CLEANER: CHEMICALLY NEUTRAL CLEANER WITH PH FACTOR BETWEEN 7 AND 10 THAT IS BIODEGRADABLE, PHOSPHATE FREE, AND RECOMMENDED BY CLEANER MANUFACTURER FOR USE ON TERRAZZO TYPE INDICATED.

12 EXECUTION

- A. PERFORM MOISTURE TEST ASTM F 1869 TO CONFIRM MOISTURE LEVEL AS ACCEPTABLE BY TERRAZZO MANUFACTURER.
- B. SHOT-BLAST CONCRETE SUBSTRATES.
- C. CONTROL BLASTING AND FINISH GRINDING SUIT TO PREVENT AIR POLLUTION AND COMPLY WITH ENVIRONMENTAL PROTECTION REGULATIONS.
- D. POLISH, ROUGH GRIND, GROUT, CURE GROUT, FINE GRIND, AND FINISH TERRAZZO ACCORDING TO MANUFACTURERS' WRITTEN INSTRUCTIONS AND NTMA'S GUIDE SPECIFICATION FOR EPOXY TERRAZZO.
- E. INSTALL FLEXIBLE REINFORCING MEMBRANE AND PRIMER ACCORDING TO MANUFACTURERS' WRITTEN INSTRUCTIONS.
- F. DIVIDER AND ACCESSORY STRIPS: INSTALL IN ADHESIVE SETTING BED WITHOUT VOIDS BELOW STRIPS.
- G. CONTROL-JOINT STRIPS: INSTALL BACK TO BACK DIRECTLY ABOVE SUBSTRATE CONTROL JOINTS.
- H. ABRASIVE STRIPS: INSTALL WITH SURFACE OF ABRASIVE STRIP POSITIONED 1/32 INCH HIGHER THAN TERRAZZO SURFACE.
- I. REMOVE AND REPLACE ENTIRE TERRAZZO AREAS DEFINED BY STRIPS THAT EVIDENCE LACK OF BOND WITH SUBSTRATE WITHIN TWO YEARS OF INSTALLATION.
- J. CONSTRUCTION TOLERANCES: LIMIT VARIATION IN TERRAZZO SURFACE FROM LEVEL TO 1/4 INCH IN 10 FEET.
- K. SEAL SURFACES ACCORDING TO NTMA'S WRITTEN RECOMMENDATIONS. APPLY SEALER ACCORDING TO SEALER MANUFACTURERS' WRITTEN INSTRUCTIONS.
- L. SET PRECAST UNITS USING METHOD RECOMMENDED BY NTMA AND MANUFACTURER. BACK-FILL PER TREADS FOR FULL CONTACT WITH SUBSTRATE.
- M. SEAL JOINTS BETWEEN PRECAST UNITS WITH JOINT SEALANTS.

SECTION 09 65 13 - LINOLEUM FLOORING

1.1 PRODUCTS

- A. PRODUCT: AS INDICATED ON FINISH SCHEDULE.
- B. SLIP RESISTANCE: NOT LESS THAN 0.6 FOR LEVEL SURFACES AND 0.8 FOR RAMPED SURFACES PER ASTM D 2047.
- C. CRITICAL RADIANT FLUX CLASSIFICATION: CLASS 1, NOT LESS THAN 0.45 WISO, CM PER ASTM E 648.
- D. TILE: SOLIDIFIED MIXTURE OF LINOLEUM CEMENT BINDER, GROUND CORK, WOOD FLOUR, MINERAL FILLERS, AND PIGMENTS BONDED TO PARTIALLY EMBEDDED BACKING, WITH PATTERNS AND COLORS EXTENDED THROUGH ENTIRE WEAR-LAYER THICKNESS.
- E. SHEET FLOOR COVERING: ASTM F 2034 WITH HEAT WELDED SEAMS, UNLESS OTHERWISE INDICATED.
- F. TROUBLEABLE LEVELING AND PATCHING COMPOUNDS: LATEX-MODIFIED, PORTLAND CEMENT BASED OR BLENDED HYDRAULIC CEMENT BASED FORMULATION PROVIDED OR APPROVED BY FLOOR COVERING MANUFACTURER FOR APPLICATIONS INDICATED.
- G. ADHESIVES: WATER-RESISTANT TYPE RECOMMENDED BY MANUFACTURER TO SUIT SHEET LINOLEUM FLOOR COVERING AND SUBSTRATE CONDITIONS INDICATED.
- H. SEAM SEALER: WATER-RESISTANT TYPE RECOMMENDED FOR PRODUCT INDICATED.
- I. HEAT-WELDING BEAD: SOLID-STRAND PRODUCT OF FLOOR COVERING MANUFACTURER.
- J. METAL EDGE STRIPS: SOLUTHER SYSTEMS, JOLLY.

12 EXECUTION

- A. CONCRETE SUBSTRATES: PREPARE ACCORDING TO ASTM F 710.
1. ALKALINITY AND ADHESION TESTING: PERFORM TESTS RECOMMENDED BY MANUFACTURER. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATE PASSES TESTING.
2. MOISTURE TESTING: ASTM F 1869 MAXIMUM MOISTURE-VAPOR-EMISSION RATE OF 3 LB OF WATER/1000 SQ. FT. IN 24 HOURS.
- B. EXTEND FLOOR COVERINGS INTO TOE SPACES, DOOR REVEALS, CLOSETS, AND SIMILAR OPENINGS. INSTALL FLOOR COVERINGS ON COVERS.

SECTION 09 68 13 - CARPET AND CARPET TILE

1.1 PRODUCTS

- A. PRODUCTS: AS INDICATED ON FINISH SCHEDULE.
- B. CARPET CRITICAL RADIANT FLUX CLASSIFICATION: CLASS 1, NOT LESS THAN 0.45 WISO, CM PER ASTM E 648.
- C. TROUBLEABLE LEVELING AND PATCHING COMPOUNDS: LATEX-MODIFIED, HYDRAULIC CEMENT-BASED FORMULATION PROVIDED OR RECOMMENDED BY CARPET MANUFACTURER.
- D. CARPET ADHESIVES: WATER-RESISTANT AND NONSTAINING, HIGH SOLIDS, LOW VOC EMITTING FORMULATIONS THAT ARE SPECIFICALLY RECOMMENDED BY THE CARPET MANUFACTURER, AS VERIFIED THROUGH COMPATIBILITY AND ADHESION TESTING FOR THE INTENDED SUBSTRATE AND APPLICATION, AND THAT COMPLY WITH FLAMMABILITY REQUIREMENTS FOR INSTALLED CARPET.
1. DIRECT GLUE-DOWN, RELEASEABLE TYPE; CR 104, SECTION 8.
- E. SEAMING CEMENT: HOT-MELT ADHESIVE TAPE.

12 EXECUTION

- A. PREPARE SUBSTRATES ACCORDING TO MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- B. INSTALLATION: CR 104.
- C. MAINTAIN UNIFORMITY OF CARPET DIRECTION AND LAY OF PILE.
- D. AT DOORWAYS, CENTER SEAMS UNDER DOOR IN CLOSED POSITION.
- E. BIND OR SEAL CUT EDGES AS RECOMMENDED BY CARPET MANUFACTURER.
- F. INSTALL PATTERN PARALLEL TO WALLS AND BORDERS, UNLESS OTHERWISE INDICATED.

SECTION 09 72 00 - WALL COVERINGS

1.1 PRODUCTS

- A. PRODUCTS: AS INDICATED ON FINISH SCHEDULE.
- B. SURFACE FLAME-SPREAD AND SMOKE-DEVELOPED INDICES OF 25 AND 450, RESPECTIVELY, PER ASTM E 84.
- C. FIRE GROWTH CONTRIBUTION OF TEXTILE WALL COVERING: BOCA, SBC, OR UBC, STANDARD 8-2 AS APPLICABLE.
- D. VINYL WALL COVERING STANDARD: FCS CCG-14-08 AND CFFA-W-10-18.
- E. FABRICS: FROM SAME DYE LOT, TREATED TO RESIST STAINS AND TO COMPLY WITH SURFACE BURNING AND FLAMMABILITY REQUIREMENTS, UNLESS PERFORMANCE IS INHERENT.
- F. TEXTILE COLORFASTNESS TO:
1. WET AND DRY CROCKING: PASSES AATCC 8, CLASS 3 MINIMUM.
2. LIGHT: PASSES AATCC 16A OR PASSES AATCC 16E, CLASS 4 MINIMUM AT 40 HOURS.
- G. STAIN-RESISTANT TREATMENT: NEUTRAL FABRICS AND WALL PAPER.
- H. ADHESIVES: MILDREW-RESISTANT, NONSTAINING, STRIPPABLE TYPE ADHESIVE, FOR USE WITH SPECIFIC WALL COVERING AND SUBSTRATE APPLICATION.
- I. WALL LINER: NONWOVEN, SYNTHETIC UNDERLAYMENT AND ADHESIVE.
- J. EDGE MOLDING: AS SELECTED BY ARCHITECT.

12 INSTALLATION

- A. PREPARATION:
1. CLEAN SUBSTRATES OF SUBSTANCES THAT COULD IMPAIR WALL COVERINGS' BOND, INCLUDING MOLD, MILDEW, OIL, GREASE, INCOMPATIBLE PRIMERS, AND DIRT.
2. PREPARE SUBSTRATES TO ACHIEVE A SMOOTH, DRY, CLEAN SURFACE FREE OF FLAKING, UNSOUND COATINGS, CRACKS, AND DEFECTS.
3. PAINTED SURFACES: CHECK PAINTED SURFACES FOR PIGMENT BLEEDING TREAT AREAS SUSCEPTIBLE TO PIGMENT BLEEDING.
4. MOISTURE CONTENT: MAXIMUM OF 5 PERCENT ON NEW PLASTER, CONCRETE, AND CONCRETE MASONRY UNITS WHEN TESTED WITH AN ELECTRONIC MOISTURE METER.
5. PRIME NEW GYPSUM BOARD WITH PRIMER RECOMMENDED COVERING MANUFACTURER.
6. ALLOW NEW PLASTER TO CURE TREAT AREAS OF HIGH ALKALINITY.
7. SAND GLOSS, SEMI-GLOSS, AND EGGSHELL FINISHES WITH FINE SANDPAPER.

SECTION 09 72 00 - WALL COVERINGS (CONT.)

8. INSTALL WALL LINER, WITH NO GAPS OR OVERLAPS, WHERE REQUIRED BY WALL COVERING MANUFACTURER, FORM SMOOTH WRINKLE-FREE SURFACE FOR FINISHED INSTALLATION. DO NOT BEGIN WALL COVERING INSTALLATION UNTIL WALL LINER HAS DRIED.
9. ACCLIMATE WALL COVERING MATERIALS BY REMOVING THEM FROM PACKAGING IN THE INSTALLATION AREAS NOT LESS THAN 24 HOURS BEFORE INSTALLATION.
- B. INSTALL SEAM VERTICAL AND PLUMB, WITH NO HORIZONTAL SEAMS.
- C. MATCH PATTERN 12 INCHES ABOVE FINISH FLOOR.

SECTION 09 73 00 - INTERIOR STONE FACINGS

1.1 PRODUCTS

- A. STONE VARIETIES AND SOURCES: REFER TO FINISH SCHEDULE.
- B. MATCH ARCHITECT'S SAMPLES FOR VARIETY, COLOR, FINISH, AND OTHER STONE CHARACTERISTICS RELATING TO AESTHETIC EFFECTS.
- C. MATCH EXISTING STONE FOR VARIETY, COLOR, AND FINISH WHERE STONE IS INDICATED TO MATCH EXISTING.
- D. PROVIDE STONE THAT IS FREE OF CRACKS, SEAMS, AND STARTS IMPAIRING STRUCTURAL INTEGRITY OR FUNCTION.
- E. PROVIDE STONE FROM ADJACENT BLOCKS IN A SINGLE QUARRY FOR EACH VARIETY OF STONE REQUIRED.
- F. QUARRY STONE IN A MANNER TO ENSURE THAT AS QUARRIED BLOCK ORIENTATIONS YIELD FINISHED STONE WITH REQUIRED CHARACTERISTICS.
- G. WATER-CLEANABLE EPOXY ADHESIVE: ANSI A118.3. USE ONLY ADHESIVES FORMULATED FOR STONE AND CERAMIC TILE.
- H. SEALANT FOR COUNTERTOPS: MEDIUM-MODULUS NEUTRAL-CURING SILICONE SEALANT.
- I. LATEX-PORTLAND CEMENT GROUT: ANSI A118.6.
- J. COMPLY WITH RECOMMENDATIONS IN MA'S DIMENSIONAL STONE DESIGN MANUAL IV, AND FABRICATE COUNTERTOPS IN SECTIONS INDICATED FOR JOINING IN FIELD, WITH SEALANT-FILLED SEAMS 1/16 INCH IN WIDTH.

12 EXECUTION

- A. DO NECESSARY FIELD CUTTING AS STONE IS SET. USE POWER SAWS WITH DIAMOND BLADES TO CUT STONE. CUT LINES STRAIGHT AND TRUE, WITH EDGES EASED SLIGHTLY TO PREVENT SNIPPING.
- B. PROVIDE EXPANSION CONTROL, AND PRESSURE-RELIEVING JOINTS OF WIDTHS AND AT LOCATIONS INDICATED.
- C. TOLERANCES: DO NOT EXCEED 1/8 INCH IN 8 FEET, 1/4 INCH IN 16 FEET OR 1/4 INCH MAXIMUM IN VARIATION FROM LEVEL; DO NOT EXCEED 1/32-INCH DIFFERENCE BETWEEN PLANES OF ADJACENT UNITS (LIPGAP).
- D. INSTALL COUNTERTOPS OVER PLYWOOD SUBSTRATE WITH FULL SPREAD OF WATER-CLEANABLE EPOXY ADHESIVE.
- E. APPLY SEALANT TO SEAMS AND TO GAP BETWEEN COUNTERTOPS AND SPLASHES.

SECTION 09 77 13 - STRETCHED-FABRIC WALL SYSTEMS

1.1 PRODUCTS

- A. SURFACE FLAME-SPREAD AND SMOKE-DEVELOPED INDICES OF 25 AND 450, RESPECTIVELY, PER ASTM E 84.
1. UNLESS OTHERWISE REQUIRED BY AUTHORITIES HAVING JURISDICTION, CORE, ADHESIVES, AND FACING MATERIAL MAY BE TESTED SEPARATELY.
- B. FIRE GROWTH CONTRIBUTION OF TEXTILE WALL COVERING: BOCA, SBC, OR UBC, STANDARD 8-2 AS APPLICABLE.
- C. FIBERGLASS BOARD: ASTM C 612, CLASS 1 AND 2; 6-LB/CU. FT. DENSITY, COMPRESSIBLE.
1. WALL CORE BOARD: UNFACED.
2. ANCHORS, FASTENERS, AND CLIPS: STAINLESS STEEL.
- E. ADHESIVE: MILDREW-RESISTANT FORMULATION FURNISHED OR BY FABRIC WALL SYSTEM MANUFACTURER.
- F. SEALANT: FURNISHED OR RECOMMENDED BY FABRIC WALL SYSTEM MANUFACTURER.
- G. LINER: FABRIC LINER RECOMMENDED BY FABRIC WALL SYSTEM MANUFACTURER THAT COMPLIES WITH FIRE-TEST RESISTANCE REQUIREMENTS, DOES NOT ADVERSELY AFFECTING ACOUSTICAL PERFORMANCE, AND PREVENTS CORE READ THROUGH.
- H. FABRICATION:
1. EDGE PROFILE: SQUARE, UNLESS OTHERWISE INDICATED.
2. FRAME SYSTEM: EXTRUDED PVC, EXTRUDED ALUMINUM, OR FIRE-RETARDANT TREATED WOOD.
3. NAIP: NOT LESS THAN 0.80.
4. FABRICS: AS INDICATED ON FINISH SCHEDULE. FROM SAME DYE LOT, TREATED TO RESIST STAINS AND TO COMPLY WITH SURFACE BURNING AND FLAMMABILITY REQUIREMENTS, UNLESS PERFORMANCE IS INHERENT. ACCEPTABLE TO STRETCHED-FABRIC SYSTEM MANUFACTURER.

12 EXECUTION

- A. SECURE FRAMING TO SUBSTRATE WITH MECHANICAL FASTENERS.
- B. INSTALL CORE MATERIAL FLUSH WITH FACE OF STRETCHED-FABRIC SYSTEM TRACK. BOND OR FASTEN CORE MATERIAL TO SUBSTRATE. SEAL SEAMS AND JOINTS OF LINER TO PREVENT READ THROUGH IF RECOMMENDED BY STRETCHED-FABRIC SYSTEM MANUFACTURER.
- C. FABRICATE PANELS OF UNIFORM IN WIDTH WITHIN A GIVEN AREA.
- D. SEWN SEAMS WILL NOT BE PERMITTED.
- E. STRETCH FABRIC TIGHT AND SQUARE WITHOUT PUCKERS, RIPPLES, OR DISTORTIONS. REPAIR SAGGING.
- F. INSTALL FABRIC WITH PATTERNS OR DIRECTIONAL WEAVES REPLICATED 90 PATTERN OR WEAVE MATCHES ADJACENT PANELS.
- G. PROVIDE CONTINUOUS 6-INCH-WIDE WOOD BLOCKING ATTACHED TO SUPPORTING WALL WITH SUITABLE FASTENERS FOR HANGING ARTWORK, CENTERED AT 60 INCHES ABOVE FINISH FLOOR, UNLESS OTHERWISE INDICATED.
- H. INSTALLATION TOLERANCES: VARIATION NOT TO EXCEED 1/8 INCH IN 10 FEET NOR 1/4 INCH IN 12 INCHES.
- I. RESTRETCH FABRIC THAT SAGS.

SECTION 09 77 23 - FABRIC-WRAPPED WALL PANELS

1.1 PRODUCTS

- A. PRODUCTS AND FABRICS: AS INDICATED IN FINISH SCHEDULE.
- B. SURFACE FLAME-SPREAD AND SMOKE-DEVELOPED INDICES OF 25 AND 450, RESPECTIVELY, PER ASTM E 84.
1. UNLESS OTHERWISE REQUIRED BY AUTHORITIES HAVING JURISDICTION, PANEL, CORE, ADHESIVES, AND FINISHING MATERIAL MAY BE TESTED SEPARATELY.
- C. FIRE GROWTH CONTRIBUTION OF TEXTILE WALL COVERING: BOCA, SBC, OR UBC, STANDARD 8-2 AS APPLICABLE.
- D. CONSTRUCTION: CONSISTING OF FACING MATERIAL, STRETCHED OVER FRONT FACE OF DIMENSIONALLY STABLE, RIGID FIBER BOARD CORE AND BONDED OR ATTACHED TO EDGES AND BACK OF FRAME WITH VISIBLE SURFACES FULLY COVERED, SEAMLESS, AND FREE FROM WAVES IN FABRIC WEAVE, WRINKLES, SAGS, BUSTERS, ADHESIVE, OR OTHER FOREIGN MATTER. PAINT CORE, IF REQUIRED, TO ENSURE CORE DOES NOT SHOW THROUGH FABRIC.
1. FABRIC FACING MATERIAL: FROM SAME DYE LOT, TREATED TO RESIST STAINS AND TO COMPLY WITH SURFACE BURNING AND FLAMMABILITY REQUIREMENTS, UNLESS PERFORMANCE IS INHERENT.
2. CORE: UL LISTED CLASS A, HOMASOTE POLYESTER, N.C.F.R. HOMASOTE.
3. ADHESIVE: MILDREW-RESISTANT TYPE RECOMMENDED BY PANEL MANUFACTURER, COMPLYING WITH FIRE-RESISTANCE REQUIREMENTS.
- E. BACK-MOUNTING ACCESSORIES: MANUFACTURER'S STANDARD OR RECOMMENDED ACCESSORIES FOR SECURELY MOUNTING PANELS TO SUBSTRATES INDICATED.
1. MECHANICALLY MOUNTED PANELS: METAL TWO-PART PANEL-CLIP SYSTEM, PANEL-CLIP BY BROOKLYN HARDWARE.
2. ADHESIVE MOUNTED PANELS: ADHESIVE RECOMMENDED BY PANEL CORE MANUFACTURER.
3. ADHESIVE: MILDREW-RESISTANT TYPE RECOMMENDED BY PANEL MANUFACTURER, COMPLYING WITH FIRE-RESISTANCE REQUIREMENTS.

12 INSTALLATION

- A. FABRICATE PANELS IN EQUAL WIDTHS IN A GIVEN AREA, UNLESS NOTED OTHERWISE.
- B. INSTALLATION TOLERANCES:
1. VARIATION FROM LEVEL AND PLUMB: PLUS OR MINUS 1/16 INCH.
2. VARIATION OF JOINTS FROM HURLINE: NOT MORE THAN 1/16 INCH.

SECTION 09 91 23 - INTERIOR PAINTING

1.1 GENERAL

- A. SURFACE PREPARATION, PRIMING, AND FINISH COATS SPECIFIED IN THIS SECTION ARE IN ADDITION TO SHOP PRIMING AND SURFACE TREATMENT SPECIFIED IN OTHER SECTIONS.
- B. INCLUDE FIELD PAINTING OF EXPOSED BARE AND COVERED PIPES AND DUCTS (INCLUDING COLOR CODING), HANGERS, EXPOSED STEEL AND IRON SUPPORTS, AND SURFACES OF MECHANICAL AND ELECTRICAL EQUIPMENT THAT DO NOT HAVE A FACTORY-APPLIED FINAL FINISH.
- C. DO NOT PAINT PREFINISHED ITEMS, CONCEALED SURFACES, FINISHED METAL SURFACES, OPERATING PARTS, AND LABELS.

1.2 PRODUCTS

- A. PROVIDE TOP QUALITY OFFERED PRODUCTS OF ONE OF THE FOLLOWING:
1. BENJAMIN MOORE & CO. (BENJAMIN MOORE).
2. SHERWIN-WILLIAMS CO. (SHERWIN-WILLIAMS).
3. KVAL PAINTS (KVAL).
- B. COLORS AND SHEENS: REFER TO FINISH SCHEDULE.
- C. PROVIDE BLOCK FILLS, PRIMERS, AND FINISH COAT MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH THE SUBSTRATES INDICATED UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
- D. PROVIDE MANUFACTURER'S BEST-QUALITY PAINT MATERIAL THAT ARE FACTORY FORMULATED AND RECOMMENDED BY MANUFACTURER FOR APPLICATION INDICATED. PROVIDE FINISH COATS THAT ARE COMPATIBLE WITH PRIMERS USED.

SECTION 09 91 23 - INTERIOR PAINTING (CONT.)

1.3 EXECUTION

- A. EXAMINE SUBSTRATES IN COMPLIANCE WITH PDCA P4.
- B. REVIEW OTHER SECTIONS IN WHICH PRIMERS ARE PROVIDED TO ENSURE COMPATIBILITY OF THE TOTAL SYSTEM FOR VARIOUS SUBSTRATES.
- C. REMOVE HARDWARE AND HARDWARE ACCESSORIES, PLATES, MACHINED SURFACES, LIGHTING FIXTURES, AND SIMILAR ITEMS ALREADY INSTALLED THAT ARE NOT TO BE PAINTED. IF REMOVAL IS IMPRACTICAL OR IMPOSSIBLE BECAUSE OF SIZE OR WEIGHT OF THE ITEM, PROVIDE SURFACE-APPLIED PROTECTION BEFORE SURFACE PREPARATION AND PAINTING. AFTER COMPLETING PAINTING OPERATIONS IN EACH SPACE OR AREA, REINSTALL ITEMS REMOVED USING WORKERS SKILLED IN THE TRADES INVOLVED.
- D. CLEAN AND PREPARE SURFACES TO BE PAINTED ACCORDING TO MANUFACTURERS' WRITTEN INSTRUCTIONS FOR EACH PARTICULAR SUBSTRATE CONDITION AND AS SPECIFIED.
- E. MIX AND PREPARE PAINT MATERIALS ACCORDING TO MANUFACTURERS' WRITTEN INSTRUCTIONS.
- F. APPLY PAINT ACCORDING TO MANUFACTURERS' WRITTEN INSTRUCTIONS, USE APPLICATIONS AND TECHNIQUES BEST SUITED FOR SUBSTRATE AND TYPE OF MATERIAL BEING APPLIED.
- G. MINIMUM COATING THICKNESS: APPLY PAINT MATERIALS NO THINNER THAN MANUFACTURERS' RECOMMENDED SPREADING RATE TO ACHIEVE DRY FILM THICKNESS INDICATED. PROVIDE TOTAL DRY FILM THICKNESS OF THE ENTIRE SYSTEM AS RECOMMENDED BY MANUFACTURER. PROVIDE A MINIMUM OF 2 FINISH COATS, UNLESS OTHERWISE INDICATED.
- H. PAINT SURFACES BEHIND MOVABLE EQUIPMENT AND FURNITURE THE SAME AS SIMILAR EXPOSED SURFACES. BEFORE FINISH INSTALLATION OF EQUIPMENT, PAINT SURFACES BEHIND PERMANENTLY FIXED EQUIPMENT OR FURNITURE WITH PRIME COAT ONLY.
- I. APPLY FIRST COAT TO SURFACES THAT HAVE BEEN CLEANED, PRETREATED, OR OTHERWISE PREPARED FOR PAINTING AS SOON AS PRACTICABLE AFTER PREPARATION AND BEFORE SUBSEQUENT SURFACE DETERIORATION.
1. DO NOT APPLY SUCCESSIVE COATS UNTIL PREVIOUS COAT HAS CURED AS RECOMMENDED BY MANUFACTURER. IF SANDING IS REQUIRED TO PRODUCE A SMOOTH, EVEN SURFACE, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, SAND BETWEEN APPLICATIONS.
2. OMIT PRIMER OVER METAL SURFACES THAT HAVE BEEN SHOP PRIMED AND TOUCHUP PAINTED.
3. IF UNDERCOATS, STAINS, OR OTHER CONDITIONS SHOW THROUGH FINAL COAT OF PAINT, APPLY ADDITIONAL COAT UNTIL PAINT FILM IS OF UNIFORM FINISH, COLOR, AND APPEARANCE. GIVE SPECIAL ATTENTION TO ENSURE THAT EDGES, CORNERS, CRACKS, WELDS, AND EXPOSED FASTENERS RECEIVE A DRY FILM THICKNESS EQUIVALENT TO THAT OF FLAT SURFACES.
4. ALLOW SUFFICIENT TIME BETWEEN SUCCESSIVE COATS TO PERMIT PROPER DRYING. DO NOT RECOAT SURFACES UNTIL PAINT HAS DRIED TO WHERE IT FEELS FIRM AND DOES NOT DEFORM OR FEEL STICKY UNDER MODERATE THUMB PRESSURE, AND UNTIL APPLICATION OF ANOTHER COAT OF PAINT DOES NOT CAUSE UNDERCOAT TO LIFT OR LOSE ADHESION.
- J. AT THE END OF EACH WORKDAY, REMOVE EMPTY CANS, RAGS, RUBBISH, AND OTHER DISCARDED PAINT MATERIALS FROM PROJECT SITE.
- K. AFTER WORK OF OTHER TRADES IS COMPLETE, TOUCH UP AND RESTORE DAMAGED OR DEFACED PAINTED SURFACES, COMPLY WITH PROCEDURES SPECIFIED IN PDCA P1.

DIVISION 10 SPECIALTIES

SECTION 10 11 00 - VISUAL DISPLAY SURFACES

1.1 PRODUCTS

- A. PRODUCTS: AS INDICATED ON DRAWINGS.
- B. PORCELAIN ENAMEL CHALKBOARDS AND MARKERBOARDS
1. FACE SHEET MATERIAL: PORCELAIN-ENAMEL-CLAD, TYPE 1, STRETCHER-LEVELLED ALUMINIZED-STEEL, PACT-0.024-INCH SHEET, FUSED PORCELAIN-ENAMEL COATING TO STEEL WITH 3/8-INCH-THICK PARTICLEBOARD CORE AND 0.06-INCH-THICK ALUMINUM FOLY BACKING SHEET. MATTE-FINISH COVER COAT ON GROUND SURFACES WITH GLOSS FINISH INTERIOR SURFACES.
- C. AS INDICATED. ANODIC COATING, CLEAR, CLASS II COMPLYING WITH ANMA 611.
- C. HORIZONTAL AND VERTICAL STRETCHING CHALKBOARD MARKERBOARD AND TACKBOARD PANELS: FABRICATE PANELS FROM MANUFACTURER'S STANDARD COMPONENTS OF SIZE, THICKNESS, AND DESIGN REQUIRED TO IMPART SUFFICIENT STRENGTH FOR SUPPORT OF PANELS INDEPENDENTLY OF SUPPORT FROM WALLS.
1. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100. MANUFACTURER'S STANDARD MOTORS SIZED FOR OPERATION OF PANEL SIZES INDICATED. FOR PANELS WEIGHING UP TO 200 LB, USE GEAR-DRIVEN MOTORS. FOR PANELS WEIGHING MORE THAN 200 LB, USE MOTORS WITH MAGNETIC BRAKES TO STOP MOVING PANEL WITHOUT COASTING. INCLUDE LIMIT SWITCHES FOR AUTOMATIC STOPPING AT EACH END OF TRAVEL. COORDINATE WIRING REQUIREMENTS AND CURRENT CHARACTERISTICS OF MOTORS AND OPERATING SYSTEM WITH BUILDING ELECTRICAL SYSTEM. PROVIDE CONSTANT PRESSURE OPERATING SWITCH LOCATED WHERE INDICATED. ANODIC COATING, CLEAR, CLASS II COMPLYING WITH ANMA 611.

12 INSTALLATION

- A. INSTALL UNITS IN WITH PERIMETER LINES LEVEL, STRAIGHT, AND PLUMB. PROVIDE GROUNDS, CLIPS, BACKING MATERIALS, ADHESIVES, BRACKETS, ANCHORS, TRIM, AND ACCESSORIES NECESSARY FOR COMPLETE INSTALLATION.
- B. COORDINATE INSTALLATION OF ELECTRICAL COMPONENTS WITH ELECTRICAL CONTRACTOR.

SECTION 10 21 13 - TOILET COMPARTMENTS

1.1 PRODUCTS

- A. PRODUCTS: AS INDICATED ON DRAWINGS.
- B. METAL-FACED UNITS WITH COLOR-COATED FINISH: MILL- PHOSPHATIZED, CORROSION-RESISTANT STEEL SHEET, STRETCHER-LEVELLED FLATNESS: ASTM A 591A 591M, CLASS C, OR ASTM A 639A 639M, WITH MANUFACTURER'S STANDARD BAKED FINISH, COLOR AS INDICATED. CORE SHALL BE SOUND-DEADENING HONEYCOMB OF RESIN-IMPREGNATED KRAFT PAPER IN THICKNESS REQUIRED TO PROVIDE FINISHED THICKNESS OF 1-INCH MINIMUM FOR DOORS, PANELS, AND SCREENS AND 1-1/4 INCHES MINIMUM FOR PLASTERS.
- C. STAINLESS-STEEL SHEET UNITS: ASTM A 666, TYPE 302 OR 304, STRETCHER-LEVELLED FLATNESS, NO. 3 OR NO. 4 DIRECTIONAL POLISH.
- D. PLASTIC LAMINATE UNITS: NEMA LD 3, GRADE HGS, COLOR AS INDICATED. CORE MATERIAL SHALL BE ANSI A208.1, TYPE M-2 PARTICLEBOARD WITH 45-LB DENSITY IN THICKNESSES REQUIRED TO PROVIDE NOMINAL THICKNESSES OF 1-INCH MINIMUM FOR DOORS, PANELS, AND SCREENS AND 1-1/4 INCHES MINIMUM FOR PLASTERS.
- E. SOLID-PLASTIC, PHENOLIC CORE UNITS: SOLID PHENOLIC COVER FRONT FACE OF DIMENSIONALLY STABLE, RIGID FIBER BOARD CORE AND BONDED OR ATTACHED TO EDGES AND BACK OF FRAME WITH VISIBLE SURFACES FULLY COVERED, SEAMLESS, AND FREE FROM WAVES IN FABRIC WEAVE, WRINKLES, SAGS, BUSTERS, ADHESIVE, OR OTHER FOREIGN MATTER. PAINT CORE, IF REQUIRED, TO ENSURE CORE DOES NOT SHOW THROUGH FABRIC.
1. FABRIC FACING MATERIAL: FROM SAME DYE LOT, TREATED TO RESIST STAINS AND TO COMPLY WITH SURFACE BURNING AND FLAMMABILITY REQUIREMENTS, UNLESS PERFORMANCE IS INHERENT.
2. CORE: UL LISTED CLASS A, HOMASOTE POLYESTER, N.C.F.R. HOMASOTE.
3. ADHESIVE: MILDREW-RESISTANT TYPE RECOMMENDED BY PANEL MANUFACTURER, COMPLYING WITH FIRE-RESISTANCE REQUIREMENTS.
- E. BACK-MOUNTING ACCESSORIES: MANUFACTURER'S STANDARD OR RECOMMENDED ACCESSORIES FOR SECURELY MOUNTING PANELS TO SUBSTRATES INDICATED.
1. MECHANICALLY MOUNTED PANELS: METAL TWO-PART PANEL-CLIP SYSTEM, PANEL-CLIP BY BROOKLYN HARDWARE.
2. ADHESIVE MOUNTED PANELS: ADHESIVE RECOMMENDED BY PANEL CORE MANUFACTURER.
3. ADHESIVE: MILDREW-RESISTANT TYPE RECOMMENDED BY PANEL MANUFACTURER, COMPLYING WITH FIRE-RESISTANCE REQUIREMENTS.

12 FABRICATION

- A. TOILET COMPARTMENTS: OVERHEAD BRACED AND FLOOR ANCHORED, CEILING HUNG, FLOOR ANCHORED, OR FLOOR AND CEILING ANCHORED, AS INDICATED.
- B. URINAL SCREENS: WALL HUNG.
- C. HARDWARE: STAINLESS STEEL, HINGES, LATCH, KEEPER, COAT HOOK, DOOR BUMPER, DOOR PULL, PILASTER SHOES, CAPS, CONTINUOUS BRACKETS. PROVIDE UNITS THAT COMPLY WITH ACCESSIBILITY REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AT COMPARTMENTS INDICATED TO BE ACCESSIBLE TO PEOPLE WITH DISABILITIES.

13 INSTALLATION

- A. INSTALL UNITS RIGID, STRAIGHT, LEVEL, AND PLUMB, WITH NOT MORE THAN 1/2 INCH BETWEEN PILASTERS AND PANELS AND NOT MORE THAN 1 INCH BETWEEN PANELS AND WALLS. PROVIDE BRACKETS, PLASTER SHOES, BRACINGS, AND OTHER COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION.
- B. SET HINGES ON NON-SWINGING DOORS TO OPEN APPROXIMATELY 30 DEGREES FROM CLOSED POSITION WHEN UNLATCHED. SET HINGES ON OUT-SWINGING DOORS AND SWING DOORS IN ENTRANCE SCREENS TO RETURN TO FULLY CLOSED POSITION.

SECTION 10 26 00 - WALL AND DOOR PROTECTION

1.1 PRODUCTS

- A. PRODUCTS: FOR WALL GUARDS, CORNER GUARDS AND KICK PLATES, REFER TO DRAWINGS FOR PRODUCTS, COLORS AND FINISHES.
- B. PROVIDE COMPONENTS WITH FLAME-SPREAD AND SMOKE-DEVELOPED INDICES OF NOT MORE THAN 25 AND 450, RESPECTIVELY, PER ASTM E 84.
- C. EXTRUDED PLASTIC, TEXTURED, CHEMICAL- AND STAIN-RESISTANT, HIGH-IMPACT-RESISTANT, PVC OR ACRYLIC-MODIFIED VINYL PLASTIC, THICKNESS AS INDICATED, WITH A MINIMUM IMPACT RESISTANCE OF 25.4 FT-LB/IN. OF WIDTH WHEN TESTED ACCORDING TO ASTM D 256, TEST METHOD A.
- D. ALUMINUM EXTRUSIONS: ASTM B 221, ALLOY 6063-T5.
- E. STAINLESS-STEEL PLATE TYPE 304, NO. 4 FINISH, UNLESS NOTED OTHERWISE.
- F. FASTENERS: MANUFACTURER'S RECOMMENDED FASTENERS COMPATIBLE WITH ITEMS BEING FASTENED. USE VANDAL-RESISTANT FASTENERS WHERE EXPOSED TO VIEW.
- G. ADHESIVE AS RECOMMENDED BY MANUFACTURER.

12 EXECUTION

- A. COMPLETE FINISHING OPERATION AND CLEAN SURFACES TO REMOVE DUST, DEBRIS, AND LOOSE PARTICLES PRIOR TO WALL PROTECTION INSTALLATION.
- B. INSTALL SYSTEM COMPONENTS LEVEL, PLUMB, AND TRUE TO LINE WITHOUT DISTORTIONS.

SECTION 10 26 00 - WALL AND DOOR PROTECTION (CONT.)

- C. WHERE SPLICES OCCUR IN HORIZONTAL RUNS OF MORE THAN 20 FEET, SPLICE ALUMINUM RETAINERS AND PLASTIC COVERS NO CLOSER THAN 12 INCHES APART WITHIN THE RUN.
- D. CLEAN METAL AND PLASTIC COMPONENTS ACCORDING TO MANUFACTURERS' WRITTEN INSTRUCTIONS.
- E. REMOVE EXCESS ADHESIVE USING METHODS AND MATERIALS RECOMMENDED BY MANUFACTURER.

SECTION 10 28 00 - TOILET ACCESSORIES

1.1 PRODUCTS

- A. REFER TO "TOILET AND BATH ACCESSORIES SCHEDULE" ON DRAWINGS.
- B. MOUNTING DEVICES: ASTM A 153M 153M, HOT-DIP GALVANIZED AFTER FABRICATION.
- C. SCREWS, BOLTS, AND OTHER DEVICES OF SAME MATERIAL AS ACCESSORY UNIT, TAMPER AND THEFT RESISTANT WHEN EXPOSED, AND OF GALVANIZED STEEL, WHEN CONCEALED.
- D. PROVIDE MINIMUM OF SIX KEYS TO OWNER'S REPRESENTATIVE.

12 INSTALLATION

- A. INSTALL ACCESSORIES USING FASTENERS APPROPRIATE TO SUBSTRATE INDICATED AND RECOMMENDED BY UNIT MANUFACTURER.
- B. INSTALL UNITS LEVEL, PLUMB, AND FIRMLY ANCHORED IN LOCATIONS AND AT HEIGHTS INDICATED, IN ACCORDANCE WITH AMERICANS WITH DISABILITIES ACT.
- C. INSTALL GRAB BARS TO WITHSTAND A DOWNWARD LOAD OF AT LEAST 250 LBF, WHEN TESTED ACCORDING TO METHOD IN ASTM F 446.
- D. ADJUST ACCESSORIES FOR UNENCUMBERED, SMOOTH OPERATION AND VERIFY THAT MECHANISMS FUNCTION PROPERLY. REPLACE DAMAGED OR DEFECTIVE ITEMS. REMOVE TEMPORARY LABELS AND PROTECTIVE COATINGS.

SECTION 10 44 00 - FIRE-PROTECTION SPECIALTIES

1.1 PRODUCTS

- A. RATED 44-60B-C FIRE EXTINGUISHERS: 10-LB NOMINAL CAPACITY UL MULTI-PURPOSE DRY CHEMICAL TYPE FOR EACH CABINET AND OTHER LOCATIONS INDICATED. PROVIDE BRACKETS FOR EXTINGUISHERS NOT LOCATED IN CABINETS.
1. LARSEN'S MANUFACTURING COMPANY: MP10.
- B. RECESSED FIRE EXTINGUISHER CABINETS: PROVIDE CABINET BOXES CONSTRUCTED OF COLD ROLLED STEEL WITH BAKED GLASS LENSES AND FACILITIES, AND ACCESSORIES, LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100. MANUFACTURER'S STANDARD MOTORS SIZED FOR OPERATION OF PANEL SIZES INDICATED. FOR PANELS WEIGHING UP TO 200 LB, USE GEAR-DRIVEN MOTORS. FOR PANELS WEIGHING MORE THAN 200 LB, USE MOTORS WITH MAGNETIC BRAKES TO STOP MOVING PANEL WITHOUT COASTING. INCLUDE LIMIT SWITCHES FOR AUTOMATIC STOPPING AT EACH END OF TRAVEL. COORDINATE WIRING REQUIREMENTS AND CURRENT CHARACTERISTICS OF MOTORS AND OPERATING SYSTEM WITH BUILDING ELECTRICAL SYSTEM. PROVIDE CONSTANT PRESSURE OPERATING SWITCH LOCATED WHERE INDICATED. ANODIC COATING, CLEAR, CLASS II COMPLYING WITH ANMA 611.

12 EXECUTION

- A. INSTALL IN LOCATIONS AND AT MOUNTING HEIGHTS INDICATED OR, IF NOT INDICATED, AT HEIGHTS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

DIVISION 11 EQUIPMENT

SECTION 11 31 00 - APPLIANCES

- A. PRODUCTS: AS INDICATED ON DRAWINGS.
- B. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: NFPA 70, UL, AND NEMA.
- C. AHAM STANDARDS.
- D. NSF STANDARD: COMPLY WITH NSF 61, "DRINKING WATER SYSTEM COMPONENTS-HEALTH EFFECTS," FOR FIXTURE MATERIALS THAT WILL BE IN CONTACT WITH POTABLE WATER.
- E. REGULATORY REQUIREMENTS FOR ACCESSIBILITY: COMPLY WITH REQUIREMENTS IN ICC A117.1, "ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES," AND ACCESSORIES, LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100. MANUFACTURER'S STANDARD MOTORS SIZED FOR OPERATION OF PANEL SIZES INDICATED. FOR PANELS WEIGHING UP TO 200 LB, USE GEAR-DRIVEN MOTORS. FOR PANELS WEIGHING MORE THAN 200 LB, USE MOTORS WITH MAGNETIC BRAKES TO STOP MOVING PANEL WITHOUT COASTING. INCLUDE LIMIT SWITCHES FOR AUTOMATIC STOPPING AT EACH END OF TRAVEL. COORDINATE WIRING REQUIREMENTS AND CURRENT CHARACTERISTICS OF MOTORS AND OPERATING SYSTEM WITH BUILDING ELECTRICAL SYSTEM. PROVIDE CONSTANT PRESSURE OPERATING SWITCH LOCATED WHERE INDICATED. ANODIC COATING, CLEAR, CLASS II COMPLYING WITH ANMA 611.

12 INSTALLATION

- A. BUILT-IN APPLIANCES: SECURELY ANCHOR TO SUPPORTING CABINETRY OR COUNTERTOPS WITH CONCEALED FASTENERS. VERIFY THAT CLEARANCES ARE ADEQUATE FOR PROPER FUNCTIONING AND ROUGH OPENINGS ARE COMPLETELY CONCEALED.
- B. FREESTANDING APPLIANCES: PLACE IN FINAL LOCATIONS AFTER FIN

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Envelope Compliance Certificate

Project Information

Energy Code: 2019 Denver, Colorado Energy Conservation Code - 2018 IECC
Project Title: Kadampa Meditation Center alt
Location: Denver, Colorado
Climate Zone: 5b
Project Type: Alteration
Vertical Glazing / Wall Area: 10%

Construction Site: 4840 W 29th Ave, Denver, Colorado 80212
Owner/Agent: Kate Franklin, Kadampa Meditation Center, 4840 W 29th Ave, Denver, Colorado 80212, 720-370-9046, ad@meditationincolorado.org
Designer/Contractor: Robert Markley, Juniper Road Studios, LLC, 5941 Middlefield Road, Suite 200, Littleton, Colorado 80123, 720-602-3763, rmarkley@juniperroadstudios.com

Building Area	Floor Area
1-Retail : Nonresidential	250
2-Congregate Living - 6 slip units (Dormitory) : Residential	2441
3-Office : Nonresidential	1405
4-Meditation room (Religious Building) : Nonresidential	1602
5-Apartment (Dormitory) : Residential	597

Envelope Assemblies

Post-Alteration Assembly	R-Value		Proposed		Max. Allowed	
	Cavity	Cont.	U-Factor	SHGC	U-Factor	SHGC
Roof: Attic Roof, Steel Joists, [Bldg. Use 4 - Meditation room]	30.0	16.9	0.024	---	0.027	---
Roof: Attic Roof, Wood Joists, [Bldg. Use 5 - Apartment], Exemption: Neither sheathing nor insulation is exposed.	---	---	---	---	---	---
Roof: Attic Roof, Wood Joists, [Bldg. Use 1 - Retail], Exemption: Neither sheathing nor insulation is exposed.	---	---	---	---	---	---
Roof: Attic Roof, Wood Joists, [Bldg. Use 4 - Meditation room]	21.0	16.9	0.026	---	0.027	---
Roof: Attic Roof, Wood Joists, [Bldg. Use 3 - Office], Exemption: Neither sheathing nor insulation is exposed.	---	---	---	---	---	---
Roof: Attic Roof, Wood Joists, [Bldg. Use 2 - Congregate Living - 6 slip units], Exemption: Neither sheathing nor insulation is exposed.	---	---	---	---	---	---
Roof: Attic Roof, Wood Joists, [Bldg. Use 3 - Office], Exemption: Neither sheathing nor insulation is exposed.	---	---	---	---	---	---
Floor: Unheated Slab-On-Grade, [Bldg. Use 2 - Congregate Living - 6 slip units]	---	---	0.730	---	0.540	---
Floor: Wood-Framed, [Bldg. Use 4 - Meditation room], Exemption: Framing cavity not exposed.	---	---	---	---	---	---
Floor: Unheated Slab-On-Grade, [Bldg. Use 1 - Retail]	---	---	0.730	---	0.540	---
Floor: Unheated Slab-On-Grade, [Bldg. Use 3 - Office]	---	---	0.730	---	0.540	---
NORTH Ext. Wall N CMU: Concrete Block, 8in., Partially Grouted, Cells Empty,Medium Density , Furring: Metal, [Bldg. Use 4	---	---	---	---	---	---
Project Title: Kadampa Meditation Center alt Report date: 04/15/22 Data filename: Page 1 of 10						

Post-Alteration Assembly	R-Value		Proposed		Max. Allowed	
	Cavity	Cont.	U-Factor	SHGC	U-Factor	SHGC
- Meditation room], Exemption: Framing cavity not exposed.	---	---	0.290	0.250	0.380	0.513
Window: Metal Frame Curtain Wall/Storefront, Fixed, Clear, Fixed, Fixed, [Bldg. Use 4 - Meditation room]	---	---	0.290	0.250	0.770	0.513
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Entrance Door, Entrance Door, [Bldg. Use 4 - Meditation room]	---	---	---	---	---	---
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 4 - Meditation room], Exemption: Framing cavity filled with insulation.	---	---	---	---	---	---
Door: Insulated Metal, Swinging, [Bldg. Use 4 - Meditation room]	---	---	0.300	---	0.370	---
Ext. Wall N Brick: Other Mass Wall, Heat capacity 17.3, [Bldg. Use 3 - Office], Exemption: Framing cavity not exposed. (a)	---	---	---	---	---	---
Window: Metal Frame Curtain Wall/Storefront, Fixed, Clear, Fixed, Fixed, [Bldg. Use 3 - Office]	---	---	0.300	0.300	0.380	0.513
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Entrance Door, Entrance Door, [Bldg. Use 3 - Office]	---	---	0.290	0.250	0.770	0.609
Ext. Wall N Brick: Other Mass Wall, Heat capacity 17.3, [Bldg. Use 1 - Retail], Exemption: Framing cavity filled with insulation. (a)	---	---	---	---	---	---
Window H: Metal Frame Curtain Wall/Storefront, Fixed, Clear, Fixed, Fixed, [Bldg. Use 1 - Retail]	---	---	0.300	0.300	0.380	0.609
Ext. Wall N Aptm: Wood-Framed, 16in. o.c., [Bldg. Use 5 - Apartment], Exemption: Framing cavity filled with insulation.	---	---	---	---	---	---
Window: Vinyl Frame: Operable, Clear, Operable, Operable, [Bldg. Use 5 - Apartment]	---	---	0.300	0.310	0.300	0.513
Ext. Wall N Cong: Wood-Framed, 16in. o.c., [Bldg. Use 2 - Congregate Living - 6 slip units], Exemption: Framing cavity filled with insulation	---	---	---	---	---	---
Window H: Vinyl Frame: Operable, Clear, Operable, Operable, [Bldg. Use 2 - Congregate Living - 6 slip units]	---	---	0.300	0.310	0.300	0.513
EAST Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 4 - Meditation room], Exemption: Framing cavity filled with insulation.	---	---	---	---	---	---
Ext. Wall -E Brick: Other Mass Wall, Heat capacity 17.3, [Bldg. Use 3 - Office], Exemption: Framing cavity not exposed. (a)	---	---	---	---	---	---
Window: Wood Frame: Fixed, Clear, Fixed, Fixed, [Bldg. Use 3 - Office]	---	---	0.300	0.310	0.300	0.383
Window L: Vinyl Frame: Fixed, Clear, Fixed, Fixed, [Bldg. Use 3 - Office]	---	---	0.280	0.330	0.300	0.383
Ext. Wall E Brick: Other Mass Wall, Heat capacity 17.3, [Bldg. Use 1 - Retail], Exemption: Framing cavity not exposed. (a)	---	---	---	---	---	---
Window: Wood Frame: Fixed, Clear, Fixed, Fixed, [Bldg. Use 1 - Retail]	---	---	0.300	0.310	0.300	0.383
Ext. Wall E Aptm: Wood-Framed, 16in. o.c., [Bldg. Use 5 - Apartment], Exemption: Framing cavity filled with insulation	---	---	---	---	---	---
Window H: Vinyl Frame: Operable, Clear, Operable, Operable, [Bldg. Use 5 - Apartment]	---	---	0.300	0.310	0.300	0.383
Door: Glass (over 50% glazing): Nonmetal Frame, Non-Entrance Door, Non-Entrance Door, Non-Entrance Door, [Bldg. Use 5 - Apartment]	---	---	0.300	0.330	0.450	0.383
SOUTH Ext. Wall S CMU: Concrete Block, 8in., Partially Grouted, Cells Empty,Medium Density , Furring: Metal, [Bldg. Use 4	---	---	---	---	---	---
Window: Vinyl Frame: Fixed, Clear, Fixed, Fixed, [Bldg. Use 4 - Meditation room]	---	---	0.280	0.330	0.300	0.383
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 4 - Meditation room], Exemption: Framing cavity filled with insulation.	---	---	---	---	---	---
Project Title: Kadampa Meditation Center alt Report date: 04/15/22 Data filename: Page 2 of 10						

Post-Alteration Assembly	R-Value		Proposed		Max. Allowed	
	Cavity	Cont.	U-Factor	SHGC	U-Factor	SHGC
Roof: Attic Roof, Steel Joists, [Bldg. Use 4 - Meditation room]	30.0	16.9	0.024	---	0.027	---
Roof: Attic Roof, Wood Joists, [Bldg. Use 5 - Apartment], Exemption: Neither sheathing nor insulation is exposed.	---	---	---	---	---	---
Roof: Attic Roof, Wood Joists, [Bldg. Use 1 - Retail], Exemption: Neither sheathing nor insulation is exposed.	---	---	---	---	---	---
Roof: Attic Roof, Wood Joists, [Bldg. Use 4 - Meditation room]	21.0	16.9	0.026	---	0.027	---
Roof: Attic Roof, Wood Joists, [Bldg. Use 3 - Office], Exemption: Neither sheathing nor insulation is exposed.	---	---	---	---	---	---
Roof: Attic Roof, Wood Joists, [Bldg. Use 2 - Congregate Living - 6 slip units], Exemption: Neither sheathing nor insulation is exposed.	---	---	---	---	---	---
Roof: Attic Roof, Wood Joists, [Bldg. Use 3 - Office], Exemption: Neither sheathing nor insulation is exposed.	---	---	---	---	---	---
Floor: Unheated Slab-On-Grade, [Bldg. Use 2 - Congregate Living - 6 slip units]	---	---	0.730	---	0.540	---
Floor: Wood-Framed, [Bldg. Use 4 - Meditation room], Exemption: Framing cavity not exposed.	---	---	---	---	---	---
Floor: Unheated Slab-On-Grade, [Bldg. Use 1 - Retail]	---	---	0.730	---	0.540	---
Floor: Unheated Slab-On-Grade, [Bldg. Use 3 - Office]	---	---	0.730	---	0.540	---
NORTH Ext. Wall N CMU: Concrete Block, 8in., Partially Grouted, Cells Empty,Medium Density , Furring: Metal, [Bldg. Use 4	---	---	---	---	---	---
Project Title: Kadampa Meditation Center alt Report date: 04/15/22 Data filename: Page 2 of 10						

Section # & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12] ¹	Fenestration products rated in accordance with NFRC.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: 3/A13.03 FENESTRATION NOTE 1
C303.1.3 [FR13] ¹	Fenestration products are certified as to performance labels or certificates provided.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: 3/A13.03 FENESTRATION NOTE 2
C402.4.3 [FR10] ¹	Vertical fenestration SHGC value.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
C402.4.3, C402.4.3, 4 [FR8] ¹	Installed vertical fenestration U-factor and SHGC consistent with label specifications and as reported in plans and COMcheck reports.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
C402.5.2, C402.5.4 [FR18] ³	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C402.5.7 [FR17] ³	Vestibules are installed on all building entrances. Doors have self-closing devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. Location on plans/spec: 3,000SF

Additional Comments/Assumptions:

Post-Alteration Assembly	R-Value		Proposed		Max. Allowed	
	Cavity	Cont.	U-Factor	SHGC	U-Factor	SHGC
Ext. Wall S Std: Wood-Framed, 16in. o.c., [Bldg. Use 2 - Congregate Living - 6 slip units], Exemption: Framing cavity not exposed.	---	---	---	---	---	---
Ext. Wall S Mt Std: Steel-Framed, 16in. o.c., [Bldg. Use 5 - Apartment]	19.0	7.0	0.062	---	0.064	---
Window H: Vinyl Frame: Operable, Clear, Operable, Operable, [Bldg. Use 5 - Apartment]	---	---	0.300	0.310	0.300	0.383
Ext. Wall S Cong: Wood-Framed, 16in. o.c., [Bldg. Use 2 - Congregate Living - 6 slip units], Exemption: Framing cavity not exposed.	---	---	---	---	---	---
Ext. Wall S Mt Std: Steel-Framed, 16in. o.c., [Bldg. Use 2 - Congregate Living - 6 slip units]	19.0	7.0	0.062	---	0.064	---
WEST Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 4 - Meditation room], Exemption: Framing cavity filled with insulation.	---	---	---	---	---	---
Ext. Wall W Brick: Other Mass Wall, Heat capacity 17.3, [Bldg. Use 3 - Office], Exemption: Framing cavity not exposed. (a)	---	---	---	---	---	---
Window: Wood Frame: Fixed, Clear, Fixed, Fixed, [Bldg. Use 3 - Office]	---	---	0.300	0.310	0.300	0.383
Ext. Wall W Cong: Wood-Framed, 16in. o.c., [Bldg. Use 2 - Congregate Living - 6 slip units], Exemption: Framing cavity filled with insulation.	---	---	---	---	---	---
Window H: Vinyl Frame: Operable, Clear, Operable, Operable, [Bldg. Use 2 - Congregate Living - 6 slip units]	---	---	0.300	0.310	0.300	0.383
(a) Other components require supporting documentation for proposed U-factors.						
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.						
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.						

Envelope PASSES

Envelope Compliance Statement

Compliance Statement: The proposed envelope alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2019 Denver, CO, Energy Conservation Code - 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Project Compliance Checklist.

Robert Markley - Architect

Name - Title Signature Date 4/15/2022
ROBERT J. MARKLEY
405825
Robert J Markley
Digitally signed by Robert J Markley
Date: 2022.04.15 16:15:39 -0600

Project Title: Kadampa Meditation Center alt Data filename:	Report date: 04/15/22 Page 3 of 10
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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.5.5, C403.2.4, 3 [ME3] ³	Stair and elevator shaft vents have motorized dampers that automatically close. Reference section C403.7.7 for operational details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.7 [ME58] ³	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed. Reference section language for operational details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Project Title: Kadampa Meditation Center alt Data filename:	Report date: 04/15/22 Page 7 of 10
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COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2019 Denver, CO, Energy Conservation Code - 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

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

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR1] ¹	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: G00.02 R VALUE REQUIREMENTS
C401.2, Appendix CA [PR17] ¹	New construction projects include provisions and compliance with Appendix CA : Solar-Ready Zone. See section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: See A01.03 FOR ROOF PLAN AND LOCATION
C402.4.1 [PR10] ¹	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: 3/A13.03 FENESTRATION NOTE 3
C402.4.1 [PR11] ¹	The skylight area <= 3 percent of the gross roof area.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: 3/A13.03 FENESTRATION NOTE 4
C402.4.2 [PR14] ¹	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling heights >15 ft. and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= half the floor area; (b) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40; or a minimum skylight effective aperture >= 1 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.5 [PR16] ¹	Group R-2 dwelling units have separate electrical meters.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. Location on plans/spec: Project is R-3 occupancy
C405.10 [PR162] ³	Electric vehicle charging station installed per section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Kadampa Meditation Center alt Data filename:	Report date: 04/15/22 Page 4 of 10
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL26] ¹	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. Location on plans/spec: MP0.3 COMCHECK CHECKLIST PAGE 10 OF 13
C405.7 [EL27] ¹	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: MP0.3 COMCHECK CHECKLIST PAGE 10 OF 13
C405.8.2, C405.8.2, 1 [EL28] ³	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.9 [EL29] ³	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: MP0.3 COMCHECK CHECKLIST PAGE 10 OF 13

Additional Comments/Assumptions:

Project Title: Kadampa Meditation Center alt Data filename:	Report date: 04/15/22 Page 8 of 10
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DATE

DESCRIPTION

NO.

KADAMPA
MEDITATION CENTER

4840 W 29th Ave
Denver, CO 80212

Building Renovation

PROFESSIONAL SEAL

8/01/2022

DO NOT SCALE DRAWINGS
CONTRACTOR SHALL VERIFY ALL
CONDITIONS AND DIMENSIONS
AT THE JOB SITE AND NOTIFY
JUNIPER ROAD STUDIOS LLC.
OF ANY
DIMENSIONAL ERRORS, OMISSIONS,
OR DISCREPANCIES BEFORE
BEGINNING OR FABRICATING
ANY WORK.

Comcheck

DRAWN BY
JRS

SHEET
G05.00

DATE
8/01/2022

SCALE @ 24"x36"

REV.
PROJECT NUMBER
21-4840

8/20/2022 3:05:50 PM

Section # & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.1 [IN3] ¹	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: 1/G00.02 INSULATION NOTE 4
C402.2.1 [IN9] ¹	Insulation installed on a suspended ceiling having ceiling tiles is not being specified for roof/ceiling assemblies. Continuous insulation board installed in 2 or more layers with edge joints offset between layers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C303.1 [IN10] ²	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C303.2 [IN7] ¹	Above-grade wall insulation installed per manufacturer's instructions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: 1/G00.02 INSULATION NOTE 4
C303.2, C402.2.4 [IN9] ²	Floor insulation installed per manufacturer's instructions. Cavity or structural slab insulation installed in permanent contact with underside of decking or structural slabs.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. Location on plans/spec: 1/G00.02 INSULATION NOTE 4
C303.2.1 [IN14] ²	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: 1/G00.02 INSULATION NOTE 7
C105 [IN6] ¹	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the <i>Envelope Assemblies</i> table for values.
C402.2.3 [IN8] ²	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the <i>Envelope Assemblies</i> table for values.
C402.2.6 [IN18] ²	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C105 [IN2] ¹	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the <i>Envelope Assemblies</i> table for values.
C402.5.1 [IN1] ¹	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. Location on plans/spec: 1/G00.02 GENERAL NOTES, NOTE 5 UNDER MISCELLANEOUS.

Additional Comments/Assumptions:

Project Title: Kadampa Meditation Center alt Report date: 04/15/22
 Data filename: Page 9 of 10

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C402.5.6 [F137] ¹	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C408.1.1 [F157] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Project Title: Kadampa Meditation Center alt
Report date: 04/15/22

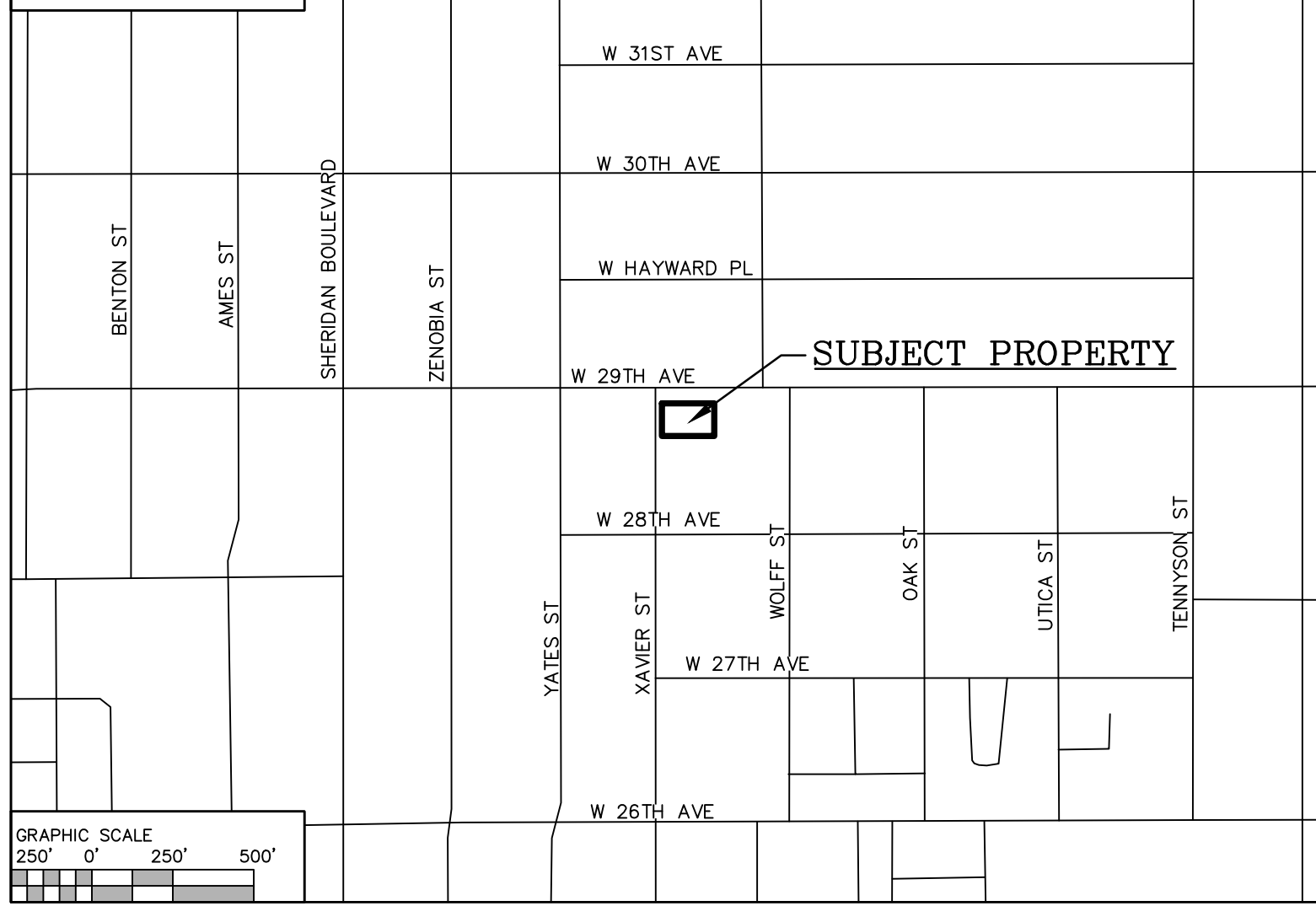
Data filename:
Page 10 of 10

[illegible]

IMPROVEMENT SURVEY PLAT

A PARCEL OF LAND SITUATED IN THE SOUTHWEST 1/4 OF SECTION 30,
TOWNSHIP 3 SOUTH, RANGE 68 WEST OF THE 6TH P.M.,
CITY AND COUNTY OF DENVER, STATE OF COLORADO

VICINITY MAP
SCALE 1"=500'



LEGAL DESCRIPTION

LOTS 1 TO 3, INCLUSIVE, GEORGE W OLINGER RESUBDIVISION OF BLOCK 13, ECKHART PLACE, CITY AND COUNTY OF DENVER, STATE OF COLORADO.

NOTES

- FALCON SURVEYING, INC. RECOMMENDS THE PROPERTY OWNER OBTAIN A TITLE COMMITMENT TO MORE THOROUGHLY RESEARCH EASEMENTS.
- TOTAL AREA OF PARCEL IS 8,750 SQUARE FEET, OR 0.201 ACRES MORE OR LESS.
- ANY PERSON WHO KNOWINGLY REMOVES, ALTERS OR DEFACES ANY PUBLIC LAND SURVEY MONUMENT OR LAND MONUMENT OR ACCESSORY, COMMITS A CLASS TWO (2) MISDEMEANOR PURSUANT TO STATE STATUTE 18-4-508, C.R.S.
- NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT, MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF CERTIFICATION SHOWN HEREON. (C.R.S. 13-80-105(3)(A))
- FALCON SURVEYING, INC. RECOMMENDS ALL INTERESTED PARTIES RETAIN THE SERVICES OF A COMPETENT INDIVIDUAL TO CONSULT PERTINENT DOCUMENTS FOR SPECIFIC DEVELOPMENT RESTRICTIONS AND CRITERIA WHICH MIGHT APPLY TO SUBJECT PARCEL. FALCON SURVEYING, INC. AND THE SURVEYOR OF RECORD ASSUME NO RESPONSIBILITY FOR THE ZONING RESTRICTIONS UPON THE SUBJECT PROPERTY.
- DIRECT ACCESS TO PROPERTY FROM XAVIER STREET, WEST 29TH AVENUE, AND A 16 FOOT ALLEY (PUBLIC RIGHTS OF WAY) EXISTS AT TIME OF SURVEY. RIGHTS TO ACCESS NOT ADDRESSED BY SURVEYOR.
- BURIED UTILITIES AND/OR PIPE LINES ARE SHOWN PER VISIBLE SURFACE EVIDENCE AND UTILITY PLANS. ADDITIONAL UTILITIES, IN USE OR ABANDONED, MIGHT EXIST ON, NEAR OR CROSSING THE SUBJECT PROPERTY. LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT EXCAVATION MAY BE NECESSARY. WITHOUT EXPRESSING A LEGAL OPINION AS TO THE OWNERSHIP OR NATURE OF THE POTENTIAL OVERHANGS. THE DIMENSIONS OF ALL UTILITY POLE CROSSMEMBERS AND/OR OVERHANGS SHOWN HEREON ARE LOCATED TO THE BEST OF OUR ABILITY AND ARE APPROXIMATE. FALCON SURVEYING, INC. AND THE SURVEYOR OF RECORD SHALL NOT BE LIABLE FOR THE LOCATION OF OR THE FAILURE TO NOTE THE LOCATION OF NON-VISIBLE UTILITIES.
- THE SANITARY INVERT ELEVATION WAS CALCULATED FROM THE SURVEYED ELEVATIONS OF THE EXISTING CONCRETE DRIVE AND THE EXTERNAL DEPTH MEASUREMENT FROM SHEET P2.0 OF THE PROPOSED BUILDING RENOVATION PLANS DATED 01/24/2022.
- ALL DISTANCES ARE IN U.S. SURVEY FEET.
- BENCHMARK: FOUND CITY AND COUNTY OF DENVER BRASS CAP STAMPED "474B" LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION AT WEST 29TH AVENUE AND TENNYSON STREET. NAVD 88 ELEVATION= 5393.73
- BASIS OF BEARINGS: A LINE ESTABLISHED BY THE SURVEYOR AS EVIDENCED BY A FOUND MALTESE CROSS AT THE SOUTHWEST CORNER OF LOT 3, GEORGE W OLINGER RESUBDIVISION OF BLOCK 13 ECKHART PLACE FROM WHENCE A FOUND CHISELED CROSS AT THE SOUTHWEST CORNER OF LOT 15 OF SAID GEORGE W OLINGER RESUBDIVISION OF BLOCK 13 ECKHART PLACE BEARS SOUTH 00°18'56" EAST, A DISTANCE OF 302.04 FEET WITH ALL BEARINGS HEREIN RELATIVE THERETO

SURVEYOR'S CERTIFICATE

I, JEFFREY J. MACKENNA, A REGISTERED LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY CERTIFY THAT THE SURVEY SHOWN HEREON WAS MADE UNDER MY DIRECT SUPERVISION AND THAT IT IS BASED ON MY KNOWLEDGE, INFORMATION AND BELIEF. THIS SURVEY IS IN ACCORDANCE WITH APPLICABLE STANDARDS OF PRACTICE BUT IS NOT A GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED.

JEFFREY J. MACKENNA
DATE: 06/17/2022
PLS 34183

INDEXING STATEMENT

DEPOSITED THIS _____ DAY OF _____, 20____ AT _____, M.,

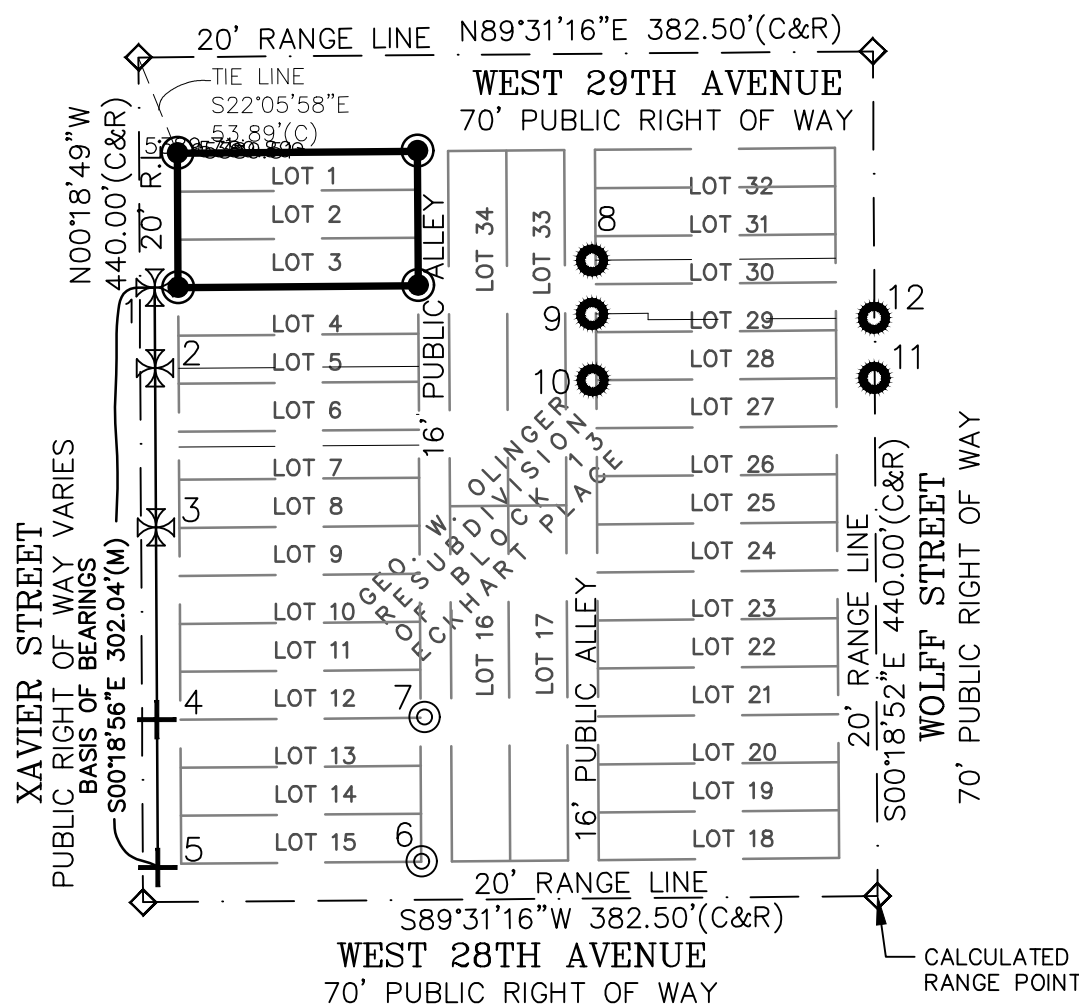
IN BOOK _____ OF THE COUNTY SURVEYOR'S LAND SURVEY RIGHT-OF-WAY

SURVEYS AT PAGE(S) _____.

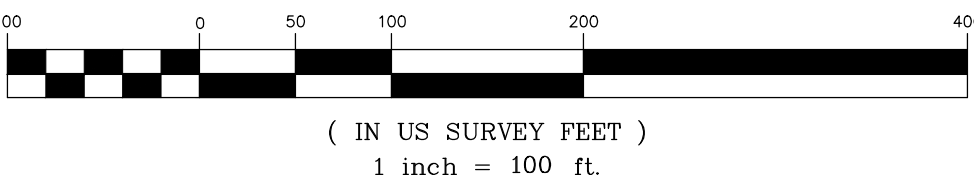
RECEPTION NUMBER _____

COUNTY SURVEYOR/DEPUTY COUNTY SURVEYOR

BOUNDARY CONTROL DIAGRAM



GRAPHIC SCALE



R.O.W. SETBACK TABLE

ADDRESS	STREET R.O.W.	DISTANCE
4840 W 29TH AVE	W 29TH AVE	5.3'
4840 W 29TH AVE	XAVIER ST	12.4'
4820 W 29TH AVE	W 29TH AVE	19.6'
2846 XAVIER ST	XAVIER ST	25.8'
2844 XAVIER ST	XAVIER ST	40.2'
2840 XAVIER ST	XAVIER ST	25.8'

BOUNDARY CONTROL CALCULATION TABLE

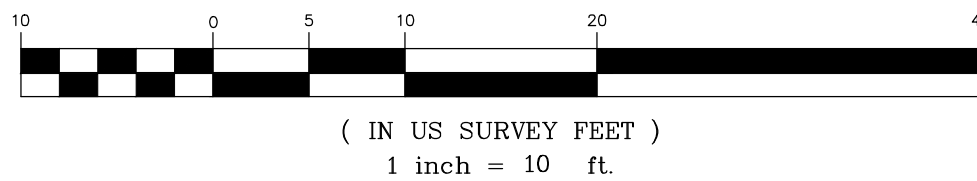
MONUMENT DESCRIPTION NUMBER	DESCRIPTION OF FOUND MONUMENT	LOCATION OF MONUMENT	RATING	ERROR OF POSITION RELATIVE TO PROPERTY LINE
01	MALTESE CROSS	SW COR LOT 3	95%	NORTH 0.02 X WEST 12.25
02	MALTESE CROSS	SW COR N 17' LOT 5	95%	NORTH 0.04 X WEST 12.30
03	MALTESE CROSS	SW COR LOT 8	85%	NORTH 0.16 X WEST 12.27
04	CHISELED CROSS	SW COR LOT 12	100%	SOUTH 0.01 X WEST 12.35
05	CHISELED CROSS	SW COR LOT 15	0%	SOUTH 1.96 X WEST 12.24
06	NAIL & TAG "PLS 38284"	SE COR LOT 15	95%	SOUTH 0.01 X EAST 0.05
07	NAIL & TAG "PLS 38284"	SE COR LOT 12	80%	NORTH 0.20 X EAST 2.06
08	RED PLASTIC CAP "PLS 26958"	SW COR N 12.5' LOT 30	85%	SOUTH 0.15 X WEST 1.84
09	BRASS PLUG "PLS 26958"	NW COR S 9.63' LOT 29	80%	SOUTH 0.19 X WEST 1.98
10	RED PLASTIC CAP "PLS 26958"	SW COR LOT 28	90%	SOUTH 0.09 X WEST 1.89
11	BRASS PLUG "PLS 26958"	SE COR LOT 28	95%	SOUTH 0.03 X EAST 19.83
12	BRASS PLUG "PLS 26958"	NE COR S 6.25' LOT 29	100%	NORTH 0.00 X EAST 19.87

NOTE: BOUNDARY CONTROL CALCULATION RATING IS BASED ON PROFESSIONAL SURVEYORS OPINION. RATING REFLECTS THE PERCENTAGE OF CONFIDENCE MONUMENT HAS IN RELATION TO THE BOUNDARY.

LEGEND

◇	CALCULATED RANGE POINT	⊙	GAS METER	— OHU —	OVERHEAD UTILITY
✕	FOUND MALTESE CROSS	⊕	ELECTRIC METER	— SAN —	SANITARY SEWER LINE
+	FOUND CHISELED CROSS	⊗	WATER VALVE	— STM —	STORM SEWER LINE
●	FOUND MONUMENT	⊘	FIRE HYDRANT	— WTR —	WATER LINE
⊙	FOUND NAIL & TAG	⊖	WATER METER	— ASP —	EDGE OF ASPHALT
⊙	SET MONUMENT PLS 34183	☆	LIGHT POLE	— ELEC —	ELEC LINE
⊙	DECIDUOUS TREE (DT 12IN)	—	SIGN	— GAS —	GAS
⊙	UTILITY POLE	⊠	COMMUNICATION PEDESTAL	— FO —	FIBER OPTIC
⊙	STORM SEWER MANHOLE	⊠	UNDERGROUND ELECTRIC BOX	—	SIDEWALK CONCRETE
⊙	SANITARY SEWER MANHOLE	⊠	SPOT ELEVATION		
⊙	GUY ANCHOR	⊠	RECORDED		
(M)	MEASURED	(C)	CALCULATED		

GRAPHIC SCALE



PROJECT CONTACTS

OWNER/AGENT:	CIVIL ENGINEER:
JUNIPER ROAD STUDIOS ROBERT MARKLEY, AIA, NCARB 5941 MIDDLEFIELD ROAD, SUITE 200 LITTLETON, CO 80123 720.389.6689	LAND PRO CIVIL PAUL WALLICK, P.E. BOULDER, CO 80304 303-229-0180
DENVER WATER:	SURVEYOR:
1600 WEST 12TH AVE. DENVER, CO 80204 303-893-2444	FALCON SURVEYING 9940 WEST 25TH AVE. LAKEWOOD, CO 80215 ATTN: JEFFREY J. MACKENNA 303-202-1560
PUBLIC WORKS:	MILE HIGH FLOOD DISTRICT
CITY OF COUNTY OF DENVER 201 WEST COLFAX AVE. #608, DEPT. 203 DENVER, CO 80202 720-865-2982	MHFD 2480 WEST 26TH AVE., SUITE 156B DENVER, CO 80211 ATTN: MIKE SARMENTO 303-455-6277
STORM, DRAINAGE, SANITARY SEWER & WATER AUTHORITIES:	FIRE PREVENTION:
DENVER WASTEWATER MANAGEMENT DIVISION 2000 WEST 3RD AVENUE DENVER, CO 80223 303-446-3400	DENVER FIRE PREVENTION DIVISION 3201 WEST COLFAX AVE. DENVER, CO 80204 ATTN: JOE FLOREZ 720-913-3476
GAS/ELECTRIC UTILITY:	TELECOMMUNICATION UTILITIES:
XCEL ENERGY 5460 WEST 60TH AVE. ARVADA, CO 80003 ATTN: DONNA GEORGE 303-571-3306	CENTURY LINK 5325 ZUNI STREET, #728 DENVER, CO 80221 303-458-3219
TELECOMMUNICATION UTILITIES:	
COMCAST 8490 UMATILLA STREET FEDERAL HEIGHTS, CO 80260 303-603-6745	

LEGEND

	EXISTING	PROPOSED		EXISTING
FIRE HYDRANT			STORM MANHOLE	
GATE VALVE			STORM INLET	
TAP SLEEVE VALVE			STORM DRAIN	
TEE			SANITARY MANHOLE	
PLUG			SANITARY SEWER	
WATER METER IN MANHOLE			POWER POLE	
BACKFLOW PREVENTER - REDUCED PRESSURE			ELECTRIC	
BACKFLOW PREVENTER - DOUBLE CHECK			GAS MAIN	
CORP STOP			TELEPHONE	
CURB STOP				
6" WATER MAIN				
8" WATER MAIN				
12" WATER MAIN				
DOMESTIC LINE				
CONDUIT				
FIRE HYDRANT LINE				
FIRE LINE				
BOUNDARY				
RIGHT OF WAY				
FLOWLINE				
EDGE OF CONCRETE				
BACK OF CURB				

ABBREVIATIONS

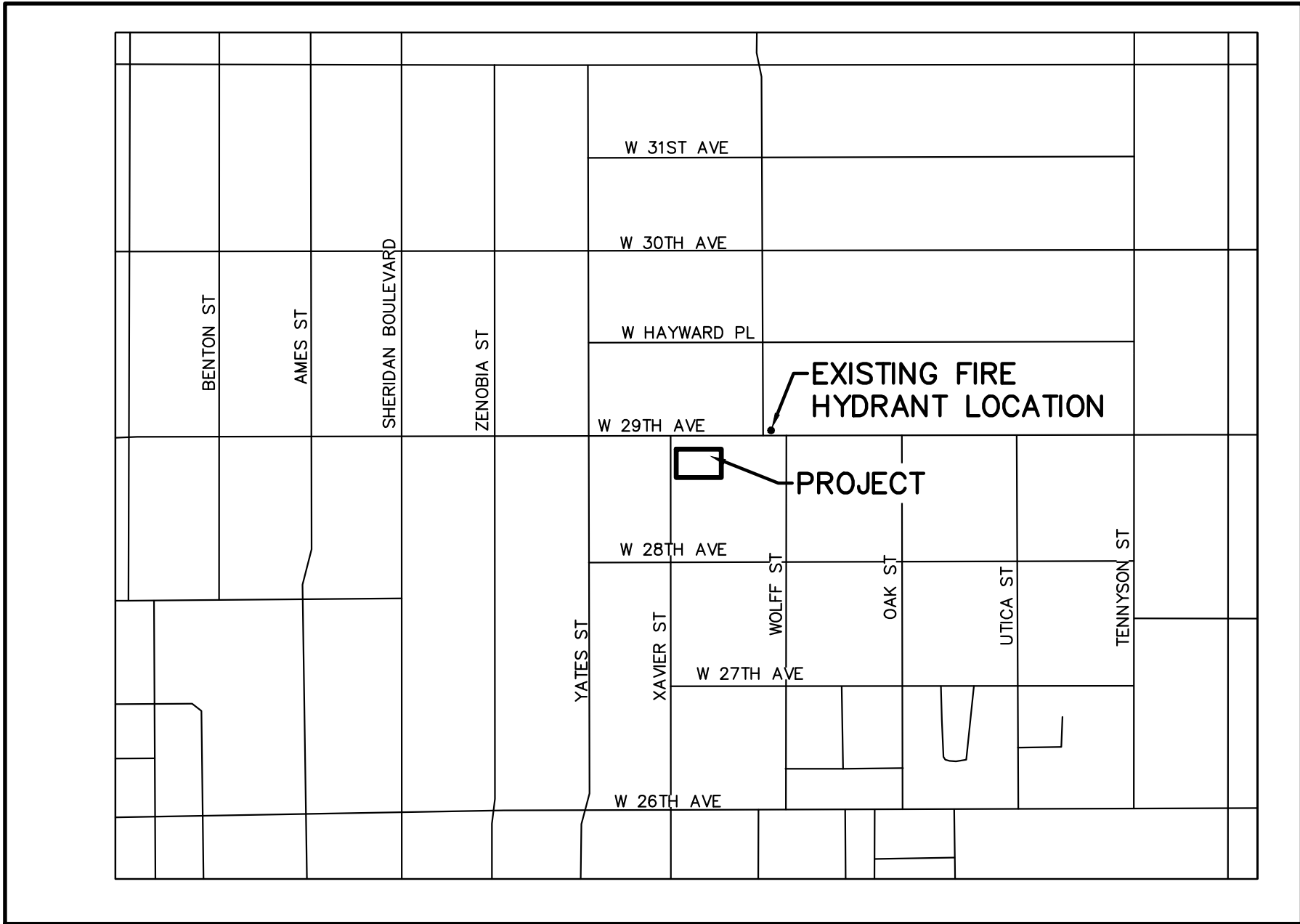
AC	ACRE	DE	DRAINAGE EASEMENT	IRR	IRRIGATION	STE	STEEL
AD	ALGEBRAIC DIFFERENCE	DIA	DIAMETER	KB	KICK (THRUST) BLOCK	SAN	SANITARY SEWER
AH	AHEAD	DIP	DUCTILE IRON PIPE	LE	LANDSCAPE EASEMENT	SF	SQUARE FEET
ARCH	ARCHITECT	DR	DRIVE	LN	LINEAR FEET	ST	STREET
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	DRC	DESIGN REVIEW COMMITTEE	LN	LANE	STA	STATION
ASSY	ASSEMBLY	DU	DWELLING UNITS	LOMR	LETTER OF MAP REVISION	STM	STORM SEWER
AVE	AVENUE	E	EAST	LP	LOW POINT	SY	SQUARE YARD
BB	BOX BASE	EA	EACH	LS	LUMP SUM	SY-IN	SQUARE YARD INCH
BK	BACK	EGL	ENERGY GRADE LINE	LT	LEFT	TB	THRUST BLOCK
BNDY	BOUNDARY	EL	ELEVATION	MAX	MAXIMUM	TBC	TOP BACK OF CURB
BOP	BOTTOM OF PIPE	MDDP	ELECTRIC	MDDP	MASTER DEVELOPMENT	TBW	TOP BACK OF WALK
BOV	BLOW OFF VALVE	EOA	EDGE OF ASPHALT		DRAINAGE PLAN	TEL	TELEPHONE
BFV	BUTTERFLY VALVE	EPC	EL PASO COUNTY	MH	MANHOLE	TOA	TOP OF ASPHALT
BLVD	BOULEVARD	ESMT	EASEMENT	MIN	MINIMUM	TOB	TOP OF BOX
BW	BOTTOM OF WALL	EST	ESTIMATE	N	NORTH	TOC	TOP OF CURB OR CONCRETE
C&G	CURB & GUTTER	EX	EXISTING	NRCP	NON-REINFORCED CONCRETE	TOF	TOP OF FOUNDATION
CATV	CABLE TELEVISION	FDP	FINAL DEVELOPMENT PLAN	ODP	OFFICIAL DEVELOPMENT PLAN	TOP	TOP OF PIPE
CB	CATCH BASIN	FDR	FINAL DRAINAGE REPORT	OHE	OVERHEAD ELECTRIC	TW	TOP OF WALL
CBC	CONCRETE BOX CULVERT	FES	FLARED END SECTION	OHU	OVERHEAD UTILITY	TYP	TYPICAL
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION	FG	FINISHED GRADE	PC	POINT OF CURVATURE	UDFCD	URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
CDS	CUL-DE-SAC	FH	FIRE HYDRANT	PCC	POINT OF COMPOUND CURVATURE	UE	UTILITY EASEMENT
CFS	CUBIC FEET PER SECOND	FL	FLOWLINE		POINT OF TANGENCY	U&DE	UTILITY & DRAINAGE EASEMENT
CL	CENTER LINE	FIL	FILING	PCR	POINT OF CURB RETURN	UGE	UNDERGROUND ELECTRIC
CLOMR	CONDITIONAL LETTER OF MAP REVISION	FO	FIBER OPTIC CABLE	PDP	PRELIMINARY DEVELOPMENT PLAN	VCP	VITRIFIED CLAY PIPE
CLR	CLEAR	GB	GRADE BREAK	PE	PROFESSIONAL ENGINEER	VPC	VERTICAL POINT OF CURVATURE
OMP	CORRUGATED METAL PIPE	GE	GAS EASEMENT	PI	POINT OF INTERSECTION	VPI	VERTICAL POINT OF INTERSECTION
CO	CLEAN OUT	GIS	GEOGRAPHIC INFORMATION SYSTEM	PKWY	PARKWAY	VPT	VERTICAL POINT OF TANGENCY
COCS	CITY OF COLORADO SPRINGS	GL	GLOBAL POSITIONING SYSTEM	PL	PROPERTY LINE	VTC	VEHICLE TRACKING CONTROL
CONC	CONCRETE	GPS	GLOBAL POSITIONING SYSTEM	PR	PROPOSED	W	WEST
CR	CIRCLE	GV	GATE VALVE	PRC	POINT OF REVERSE CURVATURE	WL	WATER LINE
CR	CORRUGATED STEEL PIPE	HC	HANDICAP	PT	POINT OF TANGENCY	WM	WATER MAIN
CSU	COLORADO SPRINGS UTILITIES	HDC	HIGH DEFLECTION COUPLING	PV	POLYVALVE	WRD	WATER RESOURCES DEPARTMENT
CT	COURT	HDP	HIGH DENSITY POLYETHYLENE	PVC	POLYVINYL CHLORIDE	WS	WATER SURFACE
CTRB	CONCRETE THRUST REDUCER	HGL	HYDRAULIC GRADE LINE	R	RADIUS	WSE	WATER SURFACE ELEVATION
	BLOCK	HOA	HOME OWNERS ASSOCIATION	RCP	REINFORCED CONCRETE PIPE	WTR	WATER
CY	CUBIC YARD	HP	HIGH POINT	RD	ROAD	YR	YEAR
DBPS	DRAINAGE BASIN PLANNING STUDY	I	INLET	ROW	RIGHT OF WAY		
		IE	IRRIGATION EASEMENT	RT	RIGHT		
		INT	INTERSECTION	S	SOUTH		
		INV	INVERT				

KADAMPA MEDITATION CENTER

WATER PLANS

NOVEMBER 14, 2022

LOTS 1 TO 3, INCLUSIVE, GEORGE W OLINGER RESUBDIVISION OF BLOCK 13, ECKHART PLACE, CITY AND COUNTY OF DENVER, STATE OF COLORADO.



VICINITY MAP

1" = 500'

SUMMARY OF QUANTITIES

52	LF	4" DIP W/ POLY WRAP
1	EA	CONNECT TO EXISTING
1	EA	WETTAP 6" x 4" SLEEVE W/ THRUST BLOCK
1	EA	4" TAPPING VALVE FLG & MJ
1	EA	4" SERVICE GATE VALVE
1	EA	4" DOUBLE CHECK BACKFLOW PREVENTER
1	EA	1" WETTAP W/ SADDLE & CORP STOP
23	LF	1" TYPE K COPPER SERVICE, CURB STOP, METER, TAPPING SADDLE & BACKFLOW PREVENTER

SHEET INDEX

1	CVR	COVER SHEET
2	NOTES	GENERAL NOTES
3	UP	OVERALL UTILITY PLAN
4	WP	WATER ONLY PLAN

LOTS 1 TO 3
RETAIL

FIRE FLOW DATA

FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO DENVER WATER STANDARDS. THE NUMBER AND LOCATION(S) OF FIRE HYDRANT(S) AND FIRE FLOW AS SHOWN ON THIS WATER MAIN INSTALLATION IS CORRECT AS SPECIFIED BY THE CITY OF DENVER FIRE DEPARTMENT.

TOTAL FIRE FLOW REQUIRED FOR THE SITE IS 1500 GPM MINIMUM @ 20 PSI RESIDUAL PRESSURE. THIS FLOW MUST BE APPROVED FROM A MINIMUM OF 1 HYDRANTS. INDIVIDUALLY, EACH FIRE HYDRANT MUST SUPPLY 1500 GPM MINIMUM @ 20 PSI RESIDUAL PRESSURE.

CODE USED FOR ANALYSIS: 2018 IFC WITH 2019 AMENDMENTS

OCCUPANCY GROUPS: R-3, A-3, B, M

CONSTRUCTION TYPES: V-B

FIRE FLOW CALCULATION AREA: 6,400 GSF

THIS BUILDING IS FULLY SPRINKLERED

FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO DENVER WATER STANDARDS. THE NUMBER AND LOCATION(S) OF FIRE HYDRANT(S) AND FIRE FLOW AS SHOWN ON THIS WATER MAIN INSTALLATION IS CORRECT AS SPECIFIED BY THE FIRE DEPARTMENT.

SIGNATURE OF FIRE CHIEF OR DESIGNATED REPRESENTATIVE

DATE SIGNED _____ GPM FIRE FLOW _____

PROJECT NUMBER

DENVER PROJECT NO. 2022-LOG-00004968

CCC NOTES

- IF PUMPS OR IRRIGATION SYSTEM WILL BE USED, THEIR USE WILL REQUIRE THE INSTALLATION OF REDUCED BACKFLOW PREVENTION ASSEMBLY 5' DOWN FORM THE METER.
- ADDITIONAL REQUIREMENTS MAY BE IMPOSED ON EXISTING OR FUTURE POTABLE WATER SERVICE LINES ON ALL PREMISES SERVED WITH RECYCLED WATER. SEE DW ENGINEERING STANDARDS 5.05C6A. CONTACT CCC AT 303-628-5942 TO COORDINATE AN ON SITE PRE-CONSTRUCTION MEETING.

NOTES

- DENVER WATER (WQO SYSTEM DEVELOPMENT) TO CONDUCT DISINFECTION AND HYDROSTATIC PRESSURE TESTING OF THE WATER MAIN AND ASSOCIATED HYDRANT BRANCHES. PLEASE CONTACT SYSTEM DEVELOPMENT AT 303-634-3470 PRIOR TO CONSTRUCTION FOR TESTING REQUIREMENTS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND OR REPAIR TRACER WIRE ON EXISTING WATER MAIN.

STATE PLANE CONVERSION

PROCEDURE FOR CONVERTING THE ASSUMED GROUND COORDINATE SYSTEM TO COLORADO STATE PLANE, CENTRAL ZONE:
SCALE DRAWING BY 0.999761293 FROM ORIGIN POINT 0,0.
ROTATE DRAWING 0018'29" LEFT AROUND ORIGIN POINT 0,0.
TRANSLATE DRAWING BY ADDING 1250036.33 TO THE NORTHING AND BY ADDING 2501658.52 TO THE EASTING.

BENCHMARK

BENCHMARK: FOUND CITY AND COUNTY OF DENVER BRASS CAP STAMPED "4748" LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION AT WEST 29TH AVENUE AND TENNYSON STREET. NAVD 88 ELEVATION= 5393.73

BASIS OF BEARING

BASIS OF BEARINGS: A LINE ESTABLISHED BY THE SURVEYOR AS EVIDENCED BY A FOUND MALTESE CROSS AT THE SOUTHWEST CORNER OF LOT 3, GEORGE W OLINGER RESUBDIVISION OF BLOCK 13 ECKHART PLACE FROM WHENCE A FOUND CHISELED CROSS AT THE SOUTHWEST CORNER OF LOT 15 OF SAID GEORGE W OLINGER RESUBDIVISION OF BLOCK 13 ECKHART PLACE BEARS SOUTH 0018'56" EAST, A DISTANCE OF 302.04 FEET WITH ALL BEARINGS HEREIN RELATIVE THERETO

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

PAUL WALLICK, P.E.
COLORADO P.E. 49297
LAND PRO CIVIL, INC.

7/6/2022
DATE

Land Pro Civil
Co-Creating Your Vision

Boulder, CO 80301
(303)229-0180
www.landprocivil.com

PREPARED FOR:
JUNIPER ROAD STUDIOS
ROBERT MARKLEY, AIA, NCARB
5941 MIDDLEFIELD ROAD,
SUITE 200
LITTLETON, CO 80123
720.389.6689

KADAMPA MEDITATION CENTER
WATER PLANS
COVER SHEET
4840 WEST 29TH AVENUE
DENVER, COLORADO



ISSUE	DATE
COMMENTS 8/26/22	11/14/2022
Design	PCW
Checked	PCW
Date	7/6/2022
Project No.	2022-01
Drawn By	DSS

GENERAL CONSTRUCTION AND WATER NOTES

1. PROJECTS LOCATED IN DISTRIBUTOR CONTRACT AREAS SHALL REQUIRE THE DISTRICT TO CONTACT DENVER WATER'S CONSTRUCTION ENGINEERING PERSONNEL AT 303-628-6671, PRIOR TO THE PRE-CONSTRUCTION MEETING.
2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH DENVER WATER'S ENGINEERING STANDARDS, CAPITAL PROJECTS CONSTRUCTION STANDARDS (CPCS), MATERIALS SPECIFICATIONS, AND DRAWINGS. ALL MAIN INSTALLATIONS/SYSTEM MODIFICATIONS WILL BE APPROVED AND INSPECTED BY DENVER WATER. FIELD CHANGE DIRECTIVES MADE BY DISTRIBUTION INSPECTION SHALL BE MADE WITHIN 24 HOURS BY THE CONTRACTOR.
3. CONTRACTORS SHALL MAINTAIN A COPY OF THE CURRENT ENGINEERING STANDARDS AND CPCS ON-SITE AT ALL TIMES DURING CONSTRUCTION. SEE THE CHART BELOW FOR A QUICK REFERENCE TO THE FREQUENTLY USED MATERIAL SPECIFICATIONS.

MATERIAL SPECIFICATIONS QUICK REFERENCES

CPCS TECHNICAL SPECIFICATION	DESCRIPTION
33 05 19	DUCTILE IRON PIPE
30 05 31.13	POLYVINYL CHLORIDE PRESSURE PIPE
33 05 19; 33 05 31.13	DUCTILE IRON WATERWORKS FITTINGS
33 14 19	RESILIENT SEATED GATE VALVE
33 15 00	RUBBER SEATED GATE VALVES
33 14 17	TAPPING VALVES – MECHANICAL JOINT TYPE
33 14 17	FABRICATED CARBON STEEL AND STAINLESS STEEL TAPPING SLEEVES
33 14 11	CAST IRON VALVE BOXES
33 14 20	DRY-BARREL FIRE HYDRANTS
33 15 19	POLYETHYLENE ENCASEMENT MATERIAL
33 14 17	BRASS AND BRONZE GOODS
33 05 61	CONCRETE VAULTS
33 05 19; 33 05 31.13	MECHANICAL JOINT RESTRAINT
33 14 11	BOLTED SLEEVE – TYPE COUPLINGS
33 14 11	FLANGED JOINT ACCESSORIES

4. THE DEPTH OF COVER OVER THE PIPE, MEASURED FROM OFFICIAL STREET GRADE TO THE TOP OF THE PIPE, SHALL BE A MINIMUM OF 4-1/2 FEET AND SHALL BE KNOWN AS THE COVER OVER THE PIPE. IF DIFFICULTIES ARISE WHEN CROSSING INTERFERENCE, AND WHERE SPECIFICALLY APPROVED BY DENVER WATER, DEVIATIONS FROM 4-1/2 FEET OF COVER WILL BE PERMITTED. THE COVER OVER THE PIPE SHALL BE A MINIMUM OF 4-1/2 FEET AND A MAXIMUM OF 10 FEET WITH DENVER WATER APPROVAL.
5. ANY CHANGES IN ALIGNMENT AND GRADE SHALL BE AUTHORIZED BY DENVER WATER AND SHALL BE ACCOMPLISHED BY THE INSTALLATION OF ADDITIONAL FITTINGS. THE DEFLECTION OF JOINTS IS PERMITTED ONLY WHEN INSTALLING PIPE ON HORIZONTAL OR VERTICAL CURVES.
6. PRIOR TO THE INSTALLATION OF WATER MAINS, ROAD CONSTRUCTION MUST HAVE PROGRESSED TO AT LEAST THE SUB-GRADE STATE. SUB-GRADE IS DEFINED AS AN ELEVATION OF NO MORE THAN 7 INCHES BELOW THE FINISHED STREET GRADE.
7. THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES, MANHOLE LIDS, TRACER WIRE BOXES, FIRE HYDRANTS TO THE FINAL FINISHED GRADE.
8. BENDS, TEES, FIRE HYDRANTS, BLOW-OFFS, AND PLUGS AT DEAD-END MAINS SHALL BE PROTECTED FROM THRUST WITH MECHANICAL RESTRAINT AND CONCRETE KICK BLOCKS IN ACCORDANCE WITH DENVER WATER'S ENGINEERING STANDARDS AND CPCS.
9. VALVES SHALL BE LOCATED ON PROPERTY LINE EXTENSIONS, EXCEPT FOR TAPPING SLEEVE WHERE AN ADDITIONAL VALVE SHALL BE PLACED ON THE TAPPING SLEEVE. ADDITIONAL VALVE LOCATIONS MAY BE REQUIRED PER DENVER WATER'S CONSTRUCTION ENGINEERING PERSONNEL.
10. UTILITY CROSSINGS SHALL MAINTAIN A MINIMUM CLEARANCE OF 18-INCHES FROM THE OUTSIDE OF THE PIPES.
11. ONLY ONE POINT OF CONNECTION IS ALLOWED UNTIL THE TESTING OF THE NEW MAIN INSTALLATIONS IS COMPLETE.
12. NEWLY INSTALLED WATER MAINS AND FIRE SERVICE LINES SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH DENVER WATER ENGINEERING STANDARDS, SECTION 8.22.
13. THE TRENCH SHALL BE EXCAVATED, AND THE PIPE EXPOSED FOR INSPECTION AT ANY LOCATION ON THE PROJECT, WHEN REQUESTED BY DENVER WATER.
14. THE STERILIZATION AND FLUSHING OF MAINS SHALL BE INSPECTED AND CERTIFIED BY THE HEALTH DEPARTMENT HAVING JURISDICTION; ONE COPY OF THE CERTIFICATION SHALL BE PROVIDED TO DENVER WATER. THE CERTIFICATION SHALL NOTE THE LOCATION OF THE MAIN AND STATE THE MAIN HAS BEEN INSPECTED BY A REPRESENTATIVE OF THE HEALTH DEPARTMENT HAVING JURISDICTION AND COMPLIES WITH THE PROCEDURES SET FORTH BY THAT DEPARTMENT.
15. THE CONTRACTOR IS RESPONSIBLE FOR:
- a. NOTIFYING CUSTOMERS VERBALLY OR IN WRITING WHO MAY BE AFFECTED BY A WATER OUTAGE DURING CONSTRUCTION.
- b. OBTAINING, AT THE CONTRACTOR'S EXPENSE, APPLICABLE LICENSES, PERMITS, BONDS, ETC., THAT ARE REQUIRED FOR THE MAIN INSTALLATION/SYSTEM MODIFICATION.
- c. CONTACTING DENVER WATER'S CONSTRUCTION ENGINEERING PERSONNEL FOR THE PRE-CONSTRUCTION MEETING AND INSPECTION, AT 303-628-6671, AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- d. IN THE EVENT OF AN EMERGENCY IN DENVER OR IN A TOTAL SERVICE AREA AFTER WORKING HOURS, CALL DENVER WATER'S WESTSIDE DISPATCHER: 303-628-6801. IN A MASTER METER OR READ & BILL DISTRICT, PLEASE CONTACT THE REPRESENTATIVE OF THE DISTRICT IN WHICH THE PROJECT IS TAKING PLACE.
- e. PAYING ALL ADDITIONAL CHARGES FOR INSPECTION OUTSIDE NORMAL WORK HOURS.
- NOTE: BE ADVISED THAT ON OCCASION VALVES IN OUR SYSTEM MAY BE INOPERABLE. ON SUCH OCCASIONS, IT MAY BECOME NECESSARY TO BACK UP AN ADDITIONAL BLOCK FOR THE SHUT OUT. IF THAT OCCURS, MAKE ADDITIONAL NOTIFICATIONS VERBALLY OR IN WRITING TO CUSTOMERS WITH THE MANDATORY 24 HOURS ADVANCE NOTICE. WHEN VALVE MAINTENANCE IS REQUIRED, A DELAY OF SEVERAL DAYS SHOULD BE EXPECTED.

TAP AND METER NOTES (FOR DENVER, TOTAL SERVICE, AND READ AND BILL AREAS ONLY. IN MASTER METER DISTRICTS PLEASE REFER TO THE SPECIFICATION FOR THAT DISTRICT).

1. BEFORE ANY TAPS ARE MADE ON MAINS, TAP APPLICATIONS AND PAYMENT MUST BE RECEIVED AND APPROVED BY THE DISTRIBUTOR AND DENVER WATER, AND THE WATER MAIN HAS PASSED WATER QUALITY TESTING.
2. DENVER WATER WILL MAKE ALL TAPS THAT ARE 2 INCHES AND SMALLER.
3. INDIVIDUAL SERVICE LINE PRVS SHALL BE INSTALLED BY THE LICENSEE WHEN AREA PRESSURE EXCEEDS 80 PSI.
4. SERVICES AND METERS:
- A. THE CONTRACTOR MAY REQUEST AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH THE METER INSPECTOR FOR ALL TAPS, SERVICE LINES, AND METERS LARGER THAN ONE-INCH, AND FOR PROJECTS INVOLVING MORE THAN ONE TAP AND SERVICE. TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE, CALL METER INSPECTION AT 303-628-6145.
- B. A COPY OF THE APPROVED PLANS WITH DENVER WATER'S APPROVAL STICKER MUST BE PRESENT ON-SITE AT THE TIME THE TAP IS MADE AND THE METER IS INSPECTED OR INSTALLED.
- C. PRIOR TO THE TAP BEING MADE, THE SERVICE ADDRESS SHALL BE POSTED, AND THE CURB VALVE SHALL BE INSTALLED. UPON TAP INSTALLATION, THE CONTRACTOR MAY REQUEST THE METER INSPECTION AFTER THE FIRST POUR OF CONCRETE FOUNDATION HAS OCCURRED. THE SERVICE ADDRESS SHALL REMAIN POSTED UNTIL THE METER SETTING PASSES INSPECTION.
- D. METERS CANNOT BE SET, INSPECTED, OR SERVICES ACTIVATED, UNTIL THE REQUIREMENTS FOR BACKFLOW PREVENTION HAVE BEEN COMPLETED. CONTACT THE BACKFLOW PREVENTION PROGRAM PERSONNEL AT 303-628-5969 FOR FURTHER INFORMATION.
- E. METER PITS AND VAULTS MUST BE SET FLUSH WITH THE FINAL GRADE OF THE LANDSCAPE,INCLUDING THE PROPER DEPTH FOR SOIL AMENDMENT. IF FINAL GRADING HAS NOT BEEN COMPLETED AT THE TIME OF METER INSPECTION, THE OWNER WILL BE REQUIRED TO RAISE OR LOWER THE METER PIT/VAULT WHEN FINAL GRADE IS ESTABLISHED. ADJUSTMENT OF THE PIT MAY REQUIRE ADJUSTMENT OF THE METER SETTING WITHIN THE PIT.
- F. METER SETTING, VALVES, AND SERVICE LINES FROM THE MAIN TO THE BACKFLOW PREVENTER ASSEMBLY, IF PRESENT, OR TO 5 FEET AFTER THE METER VAULT, MUST MEET ALL APPLICABLE ENGINEERING STANDARDS IN EFFECT AT THE TIME OF ACTIVATION. MODIFICATIONS MAY BE REQUIRED FROM THE DETAILS ON THESE PLANS TO COMPLY WITH THE CURRENT ENGINEERING STANDARDS.
- G. NO PRESENT OR FUTURE FENCES OR WALLS ARE PERMITTED BETWEEN THE RIGHT-OF-WAY (ROW) OR EASEMENT AND THE METER SETTING. THERE SHALL BE NO PERMANENT OBSTRUCTIONS WITHIN 5 FEET OF THE OUTSIDE WALL OF THE METER PIT OR VAULT.
- H. INSIDE THE CITY OF DENVER, ALL MULTI-FAMILY DWELLINGS WITH A SINGLE TAP, SERVICE LINE, AND METER ARE REQUIRED TO SUB-METER EACH INDIVIDUAL UNIT (SEC 401.3.2 OF DENVER MODIFICATIONS TO THE INTERNATIONAL PLUMBING CODE, ORDINANCE NUMBER 576, SERIES OF 2004). CALL THE CITY AND COUNTY OF DENVER PLUMBING INSPECTOR FOR INFORMATION AT 720-865-2625.
- I. INSIDE THE CITY OF DENVER, ALL SERVICE LINES MUST BE INSTALLED TO AVOID EXISTING OR PROPOSED STREET TREES. CONTACT THE CITY AND COUNTY OF DENVER'S FORESTER AT 720-913-0647 FOR INFORMATION.

CROSS-CONNECTION CONTROL REQUIREMENTS

- THE LICENSEES LISTED BELOW SHALL BE IN CONFORMANCE WITH DENVER WATER'S ENGINEERING STANDARDS, CHAPTER 5.05, CROSS-CONNECTION CONTROL AND BACKFLOW PREVENTION. BACKFLOW PREVENTION ASSEMBLIES ARE REQUIRED TO BE INSTALLED ON THE FOLLOWING WATER SERVICE LINES:
1. COMMERCIAL DOMESTIC SERVICE LINES
2. MULTI-FAMILY DOMESTIC SERVICE LINES (DEPENDING ON POTENTIAL HAZARD)
3. FIRE SERVICE LINES
4. IRRIGATION SERVICE LINES
5. SINGLE FAMILY RESIDENTIAL DOMESTIC SERVICE LINES WITH AN AUXILIARY WATER SOURCE (DUAL WATER SERVICE AGREEMENT REQUIRED)
6. RECYCLED WATER SERVICE LINES, IF SYSTEM DESIGN INCLUDES CHEMICAL INJECTION OR PUMPS, BACKFLOW PREVENTION ASSEMBLIES INSTALLED ON RECYCLED WATER SERVICE LINES SHALL BE IDENTIFIED AS "RECYCLED WATER".
7. IT IS AT THE SOLE DISCRETION OF DENVER WATER'S CROSS-CONNECTION CONTROL SECTION TO APPROVE OR DENY A VARIANCE REQUEST RELATED TO A PROPOSED BACKFLOW PREVENTION ASSEMBLY INSTALLATION.
- A. BACKFLOW PREVENTION ASSEMBLIES SHALL BE A MODEL MANUFACTURED IN ACCORDANCE WITH AWWA C510 AND C511 AND SHALL HAVE MET THE SPECIFICATIONS BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH.

- B. THE LICENSEE IS REQUIRED TO HAVE A CERTIFIED AMERICAN BACKFLOW PREVENTION ASSOCIATION (ABPA) OR AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) TESTER INSPECT AND TEST THE EXISTING AND/OR NEWLY INSTALLED CONTAINMENT BACKFLOW PREVENTION ASSEMBLIES ON DEDICATED DOMESTIC, IRRIGATION, FIRE AND RECYCLE WATER SERVICE LINES UPON INSTALLATION AND ANNUALLY THEREAFTER.
- C. WITHIN 48 HOURS OF DENVER WATER SETTING THE METER AND TURNING ON THE WATER SERVICE, THE ABPA OR ASSE TESTER IS REQUIRED TO SUBMIT THE CONTAINMENT BACKFLOW ASSEMBLY TEST REPORT(S) TO THE CROSS-CONNECTION CONTROL OFFICE: FAX: 303-794-8325E-MAIL: CROSSCONNECTIONCONTROL@DENVERWATER.ORG
- D. THERE SHALL BE NO UNPROTECTED TAKEOFFS FROM THE SERVICE LINE AHEAD OF ANY METER OR BACKFLOW PREVENTION ASSEMBLY LOCATED AT THE POINT OF DELIVERY TO THE CUSTOMER'S WATER SYSTEM.
- E. NO BRANCH LINE OR TAPS ARE ALLOWED ON DEDICATED IRRIGATION WATER SERVICE LINES OR RECYCLED WATER SERVICE LINE FOR DOMESTIC (POTABLE) USE (E.G., DRINKING FOUNTAINS, WATER PLAY FEATURES, SWIMMING POOL, RESTROOM FACILITIES, ETC.)

DENVER INTERNATIONAL AIRPORT (DEN) REQUIREMENTS.

1. CONTRACTORS SHALL MAINTAIN A COPY OF THE CURRENT ENGINEERING STANDARDS AND CAPITAL PROJECT CONSTRUCTION STANDARDS, WHEN APPLICABLE, ON SITE AT ALL TIMES DURING CONSTRUCTION.
2. WAX TAPE, METALLIC FITTINGS, AND APPURTENANCES SHALL BE IN ACCORDANCE WITH DENVER WATER CAPITAL PROJECTS CONSTRUCTION STANDARDS, 4TH EDITION SECTION 09 97 13.04.
3. AN AMI ENDPOINT IS REQUIRED TO BE PURCHASED BY THE CONTRACTOR AT THE TIME OF METER INSTALLATION.
4. CONTACT THE FOLLOWING DENVER WATER PERSONNEL PRIOR TO CONSTRUCTION FOR PROJECT COORDINATION AND INSPECTION SERVICES AT DEN:
- DEN AIRSIDE AND LANDSIDE CONSTRUCTION INSPECTION
- a. MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION
- b. DENVER WATER CONSTRUCTION ENGINEERING – 303-628-6671
- DEN CATHODIC PROTECTION INSPECTION
- a. MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION
- b. DENVER WATER CONSTRUCTION MANAGEMENT LEE BURKE 303-628-6293

IRRIGATION NOTES

1. IRRIGATION OF MEDIANS AND OTHER PUBLIC LANDSCAPED AREAS LESS THAN 25 FEET IN WIDTH MUST BE DONE IN ACCORDANCE WITH DENVER WATER OPERATING RULE 14.02.03. (CALL DW CONSERVATION SECTION AT 303-628-6343 FOR INFORMATION REGARDING IRRIGATION SYSTEMS.)
- FOR STRIPS OF LAND LESS THAN 6 FEET IN WIDTH – SPRAY IRRIGATION SHALL BE PROHIBITED. LOW-FLOW IRRIGATION SYSTEMS ARE REQUIRED.
- FOR STRIPS OF LAND BETWEEN 6 FEET AND 15 FEET IN WIDTH – ONLY LOW FLOW IRRIGATION, OR SPRAY IRRIGATION USING LOW-ANGLE SPRAY NOZZLES DESIGNED FOR THE SPECIFIC WIDTH TO BE IRRIGATED SHALL BE PERMITTED ALL SPRAY HEADS MUST BE PRESSURE REDUCING AND DESIGNED TO PREVENT LOW HEAD DRAINAGE.
- FOR STRIPS OF LAND MORE THAN 15 FEET IN WIDTH – ONLY GEAR DRIVEN ROTORS WITH LOW ANGLE NOZZLES MAY BE USED TO IRRIGATE TURF AREAS. PLANTING BEDS MAY BE IRRIGATED WITH LOW-FLOW OR SPRAY IRRIGATION. ALL SPRAY HEADS MUST BE PRESSURE REDUCING AND DESIGNED TO PREVENT LOW HEAD DRAINAGE.
2. IRRIGATION SERVICE LINES REQUIRE AN APPROVED UNIVERSITY OF SOUTHERN CALIFORNIA (USC) REDUCED PRESSURE PRINCIPLE (RP) BACKFLOW PREVENTION ASSEMBLY (CONTAINMENT) TO BE INSTALLED 5 FEET DOWNSTREAM FROM THE METER PIT AS AN ABOVE GROUND INSTALLATION BEFORE ANY CONNECTIONS. REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR HEIGHT AND ORIENTATION REQUIREMENTS.
3. IF RECYCLED OR RAW WATER (DITCH WATER, POND, WELL, ETC.) IS USED FOR IRRIGATION ON THE PREMISES, AN APPROVED UNIVERSITY OF CALIFORNIA (USC) BACKFLOW PREVENTION ASSEMBLY (CONTAINMENT) SHALL BE INSTALLED 5 FEET DOWNSTREAM FROM THE METER PIT ON ANY POTABLE WATER SERVICE LINE. THE BACKFLOW ASSEMBLY TYPE IS DETERMINED BY THE DEGREE OF HAZARD DOWNSTREAM FROM THE METER (RP-HIGH HAZARD INSTALLED ABOVE GROUND OR DC-LOW HAZARD INSTALLED BELOW GROUND – 60 INCH DIAMETER MANHOLE). FOR ADDITIONAL INFORMATION, PLEASE REFERENCE DENVER WATER'S ENGINEERING STANDARDS, 6.11, OR CONTACT CROSS-CONNECTION CONTROL AT 303-628-5940.
4. A SOIL AMENDMENT WILL BE REQUIRED ON EVERY PROPERTY REQUIRING NEW WATER SERVICE.

DISCLAIMER: DENVER WATER STANDARD OPERATING PROCEDURES REPRESENT PRACTICES THAT SHOULD BE APPLICABLE TO MOST SITUATIONS ENCOUNTERED. THESE PROCEDURES SHOULD BE FOLLOWED TO THE EXTENT APPLICABLE; HOWEVER, THEY BY NO MEANS REPRESENT THE ONLY METHOD TO PERFORM THE TASKS THEY DESCRIBE. IT IS UNDERSTOOD THAT FIELD CONDITIONS, EMERGENCES, AND OTHER CIRCUMSTANCES MAY REQUIRE DEVIATION FROM STANDARD OPERATING PROCEDURES.

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

PAUL WALLICK, P.E.
COLORADO P.E.49297
LAND PRO CIVIL, INC.

7/6/2022
DATE

Land Pro Civil
Co-Creating Your Vision

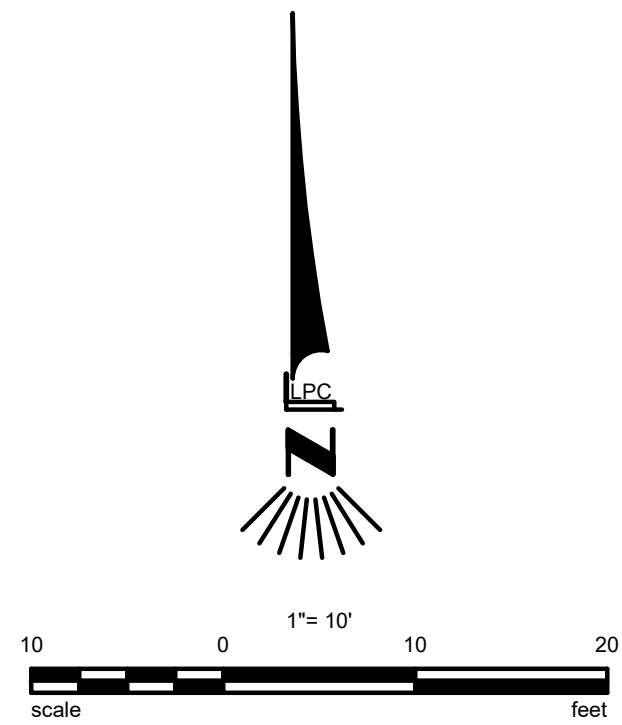
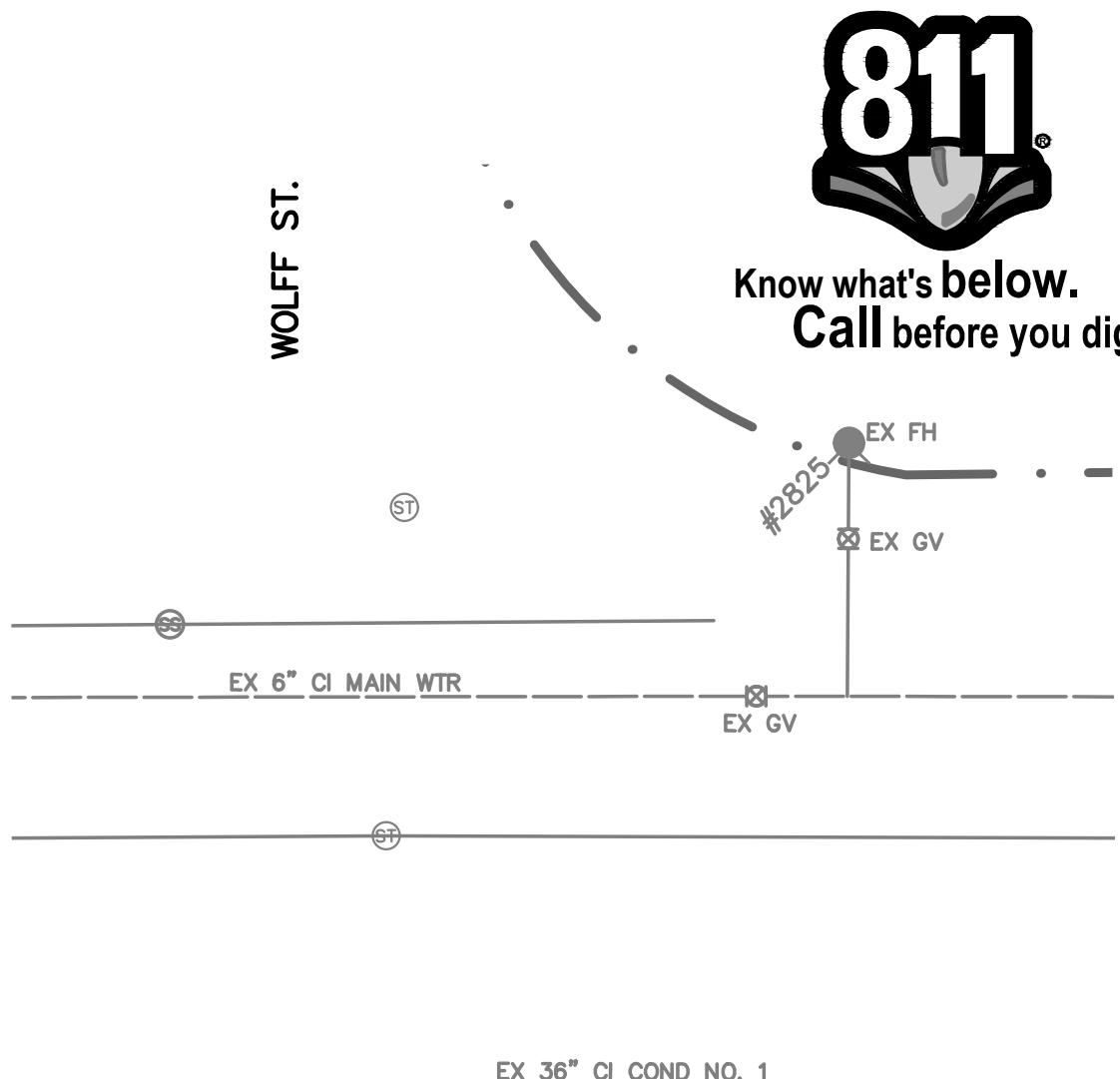
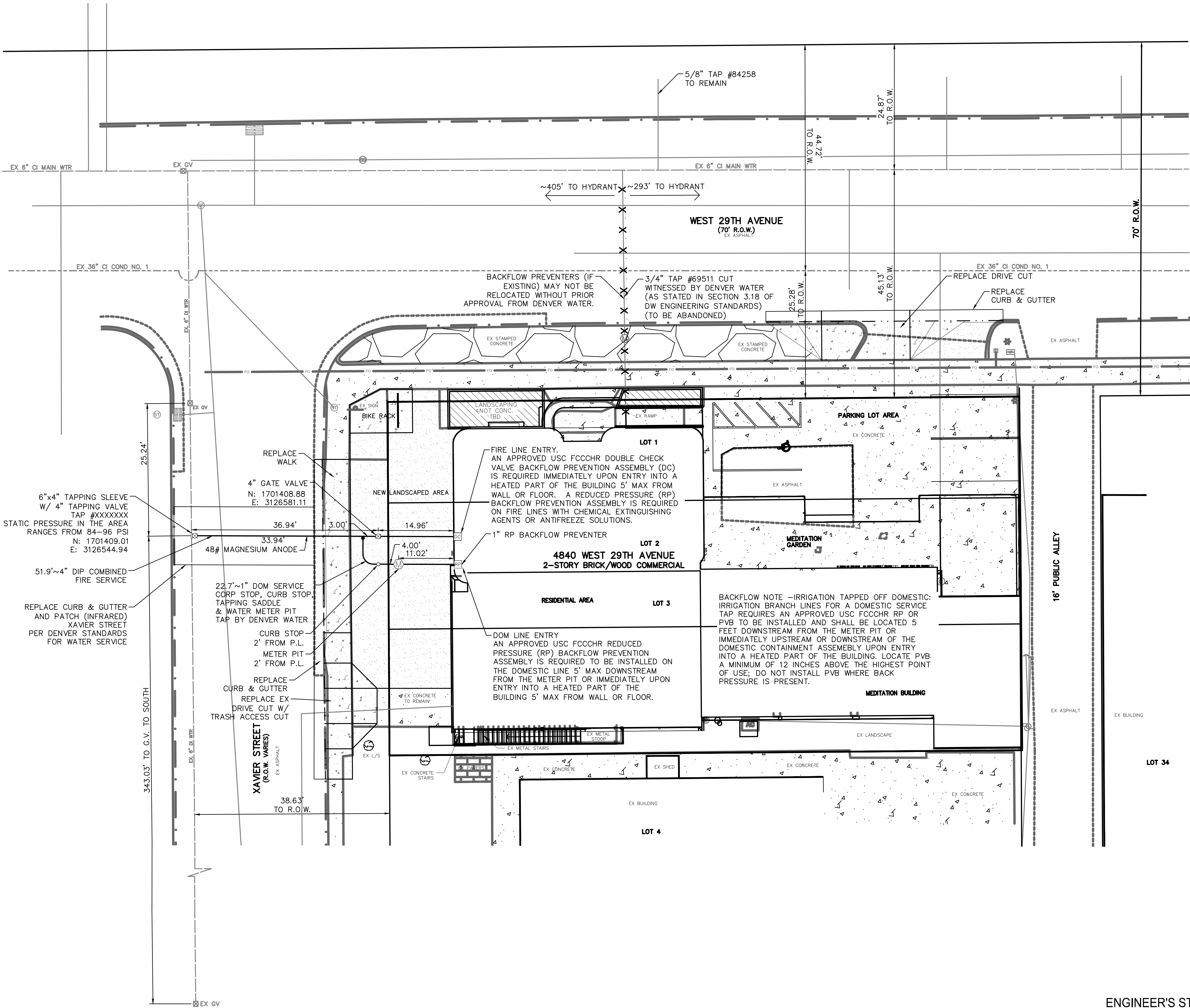
Boulder, CO 80301
(303)229-0180
www.landprocivil.com

PREPARED FOR:
JUNIPER ROAD STUDIOS
ROBERT MARLEY, AA, NCARB
5941 MIDDLEFIELD ROAD,
SUITE 200
LITTLETON, CO 80123
720.399.6699

KADAMPA MEDITATION CENTER
WATER PLANS
GENERAL NOTES
4840 WEST 29TH AVENUE
DENVER, COLORADO



ISSUE	DATE
COMMENTS 8/26/22	11/14/2022
Design	PCW
Checked	PCW
Date	7/6/2022
Project No.	2022-01
Drawn By	DSS



ENGINEER'S STATEMENT
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PAUL WALLICK, P.E.
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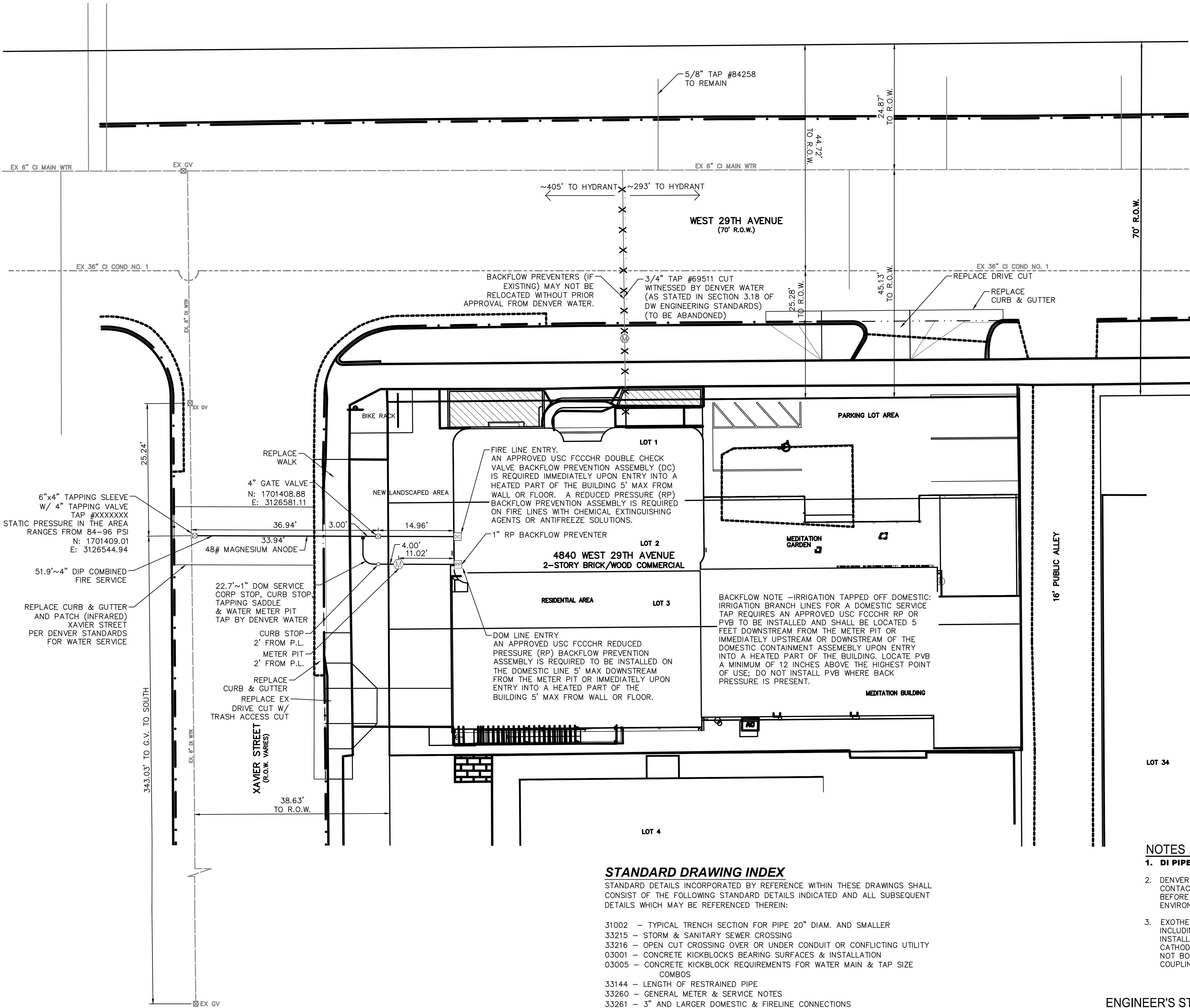
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720.398.6689

KADAMPA MEDITATION CENTER
WATER PLANS
OVERALL UTILITY PLAN
4840 WEST 29TH AVENUE
DENVER, COLORADO

ISSUE	DATE
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3 OF 4 SHEETS



6"x4" TAPPING SLEEVE
W/ 4" TAPPING VALVE
TAP #XXXXXXX
STATIC PRESSURE IN THE AREA
RANGES FROM 84-96 PSI
N: 1701409.01
E: 3126544.94

51.9'~4" DIP COMBINED
FIRE SERVICE

REPLACE CURB & GUTTER
AND PATCH (INFRARED)
XAVIER STREET
PER DENVER STANDARDS
FOR WATER SERVICE

22.7'~1" DOM SERVICE
CORP STOP, CURB STOP
& WATER METER PIT
TAP BY DENVER WATER

CURB STOP
2' FROM P.L.
METER PIT
2' FROM P.L.

REPLACE
CURB & GUTTER
REPLACE EX
DRIVE CUT W/
TRASH ACCESS CUT

XAVIER STREET
(R.O.W. VARIES)

STANDARD DRAWING INDEX

STANDARD DETAILS INCORPORATED BY REFERENCE WITHIN THESE DRAWINGS SHALL
CONSIST OF THE FOLLOWING STANDARD DETAILS INDICATED AND ALL SUBSEQUENT
DETAILS WHICH MAY BE REFERENCED THEREIN:

- 31002 - TYPICAL TRENCH SECTION FOR PIPE 20" DIAM. AND SMALLER
- 33215 - STORM & SANITARY SEWER CROSSING
- 33216 - OPEN CUT CROSSING OVER OR UNDER CONDUIT OR CONFLICTING UTILITY
- 03001 - CONCRETE KICKBLOCKS BEARING SURFACES & INSTALLATION
- 03005 - CONCRETE KICKBLOCK REQUIREMENTS FOR WATER MAIN & TAP SIZE COMBOS
- 33144 - LENGTH OF RESTRAINED PIPE
- 33260 - GENERAL METER & SERVICE NOTES
- 33261 - 3" AND LARGER DOMESTIC & FIRELINE CONNECTIONS
- 33264 - 3/4" & 1" SERVICE LINE, STOP BOX, & OUTSIDE METER INSTALLATION
- 22016 - INSIDE SETTING FOR 1 1/2" & 2" METER & BYPASS W/ INSIDE BACKFLOW PREVENTION ASSY
- 13020 - FIELD INSTALLATION - POLYETHYLENE WRAP
- 13025 - ANODE INSTALLATION
- 13040 - EXOTHERMIC WELD PROTECTION
- 13080 - METALLIC PIPE JOINT BONDING

NOTES

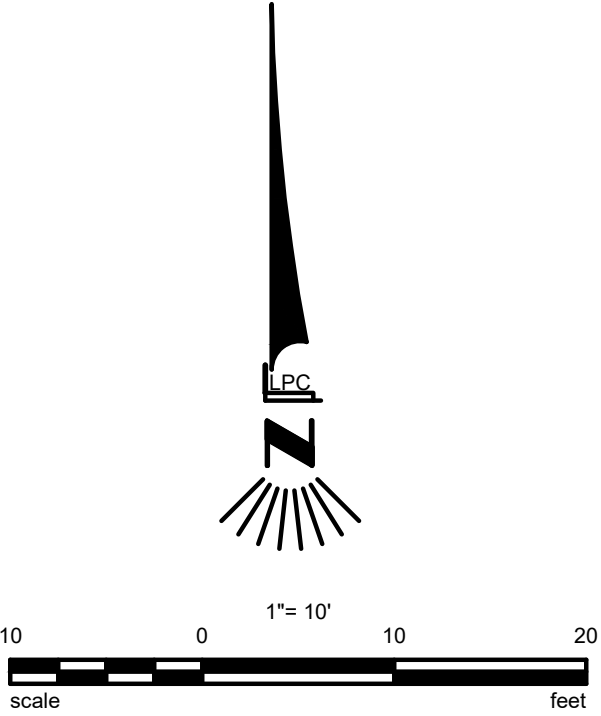
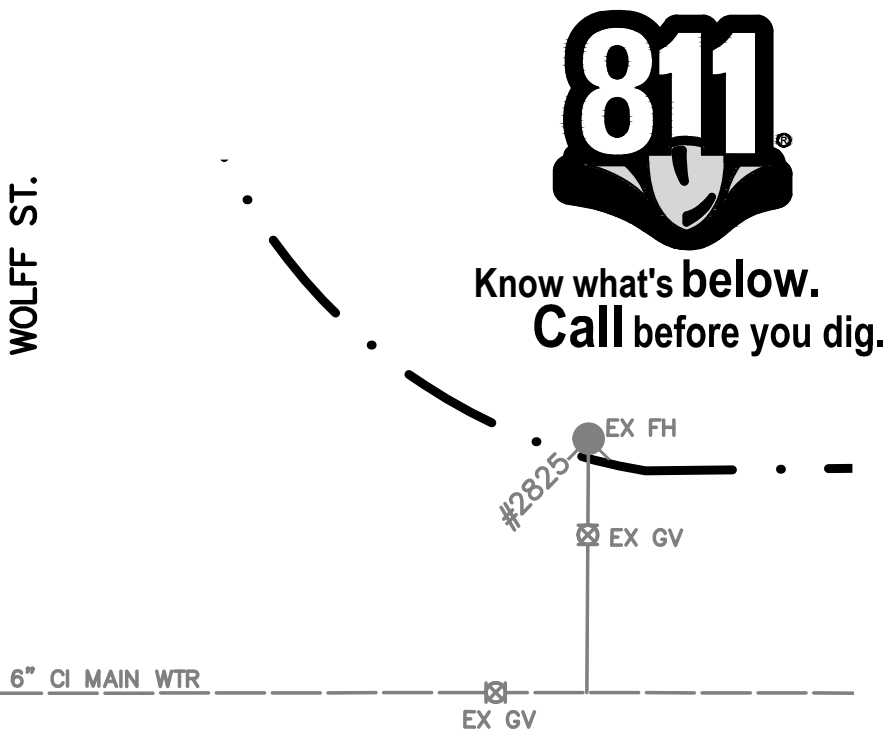
- DI PIPE WITH NITRILE GASKETS SHALL BE INSTALLED.
- DENVER WATER HAS IDENTIFIED THIS AREA AS HAVING CONTAMINATED SOIL. PLEASE
CONTACT ENVIRONMENTAL COMPLIANCE GROUP FOR CLEAN CORRIDOR REQUIREMENTS
BEFORE PERFORMING ANY WORK AT THIS LOCATION.
ENVIRONMENTALCOMPLIANCE@DENVERWATER.ORG, STEVEN MAESTAS, 720-610-9725.
- EXOTHERMIC WELD A 48-POUND HIGH POTENTIAL MAGNESIUM ANODE TO DI PIPE,
INCLUDING HYDRANT BRANCH LINES AND FIRE LINES AS SHOWN IN THE DRAWING.
INSTALL ANODES IN ACCORDANCE WITH CPCS SPECIFICATION 13 47 15-GALVANIC
CATHODIC PROTECTION AND CPCS DETAIL 13080 - METALLIC PIPE JOINT BONDING. DO
NOT BOND TO EXISTING METALLIC PIPE OR ACROSS INSULATING FLANGES OR
COUPLINGS. INSTALL V-BIO POLYETHYLENE ENCASMENT ON DUCTILE IRON PIPE.

ENGINEER'S STATEMENT

PREPARED UNDER MY SUPERVISION

PAUL WALLICK, P.E.
COLORADO P.E. 49297
LAND PRO CIVIL, INC.

7/6/2022
DATE



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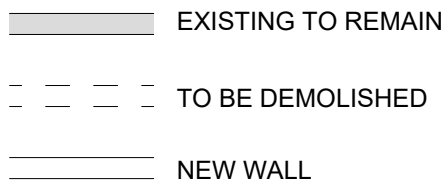
KADAMPA MEDITATION CENTER
WATER PLANS
WATER ONLY PLAN
4840 WEST 29TH AVENUE
DENVER, COLORADO



ISSUE	DATE
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- ② General Demolition Notes
1/4" = 1'-0"

- ① Main Level Demolition
3/16" = 1'-0"



○ Wall Legend
3/16" = 1'-0"



JUNIPER ROAD
STUDIOS

**KADAMPA
MEDITATION CENTER**

**4840 W 29th Ave
Denver, CO 80212**

Building Renovation

PROFESSIONAL SEAL

8/01/2022

DO NOT SCALE DRAWINGS
CONTRACTOR SHALL VERIFY ALL
CONDITIONS AND DIMENSIONS
AT THE JOB SITE AND NOTIFY
JUNIPER ROAD STUDIOS LLC.
OF ANY
DIMENSIONAL ERRORS, OMISSIONS,
OR DISCREPANCIES BEFORE
BEGINNING OR FABRICATING
ANY WORK.

Main Level Demolition

DRAWN BY
JRS

SHEET
AD1.01

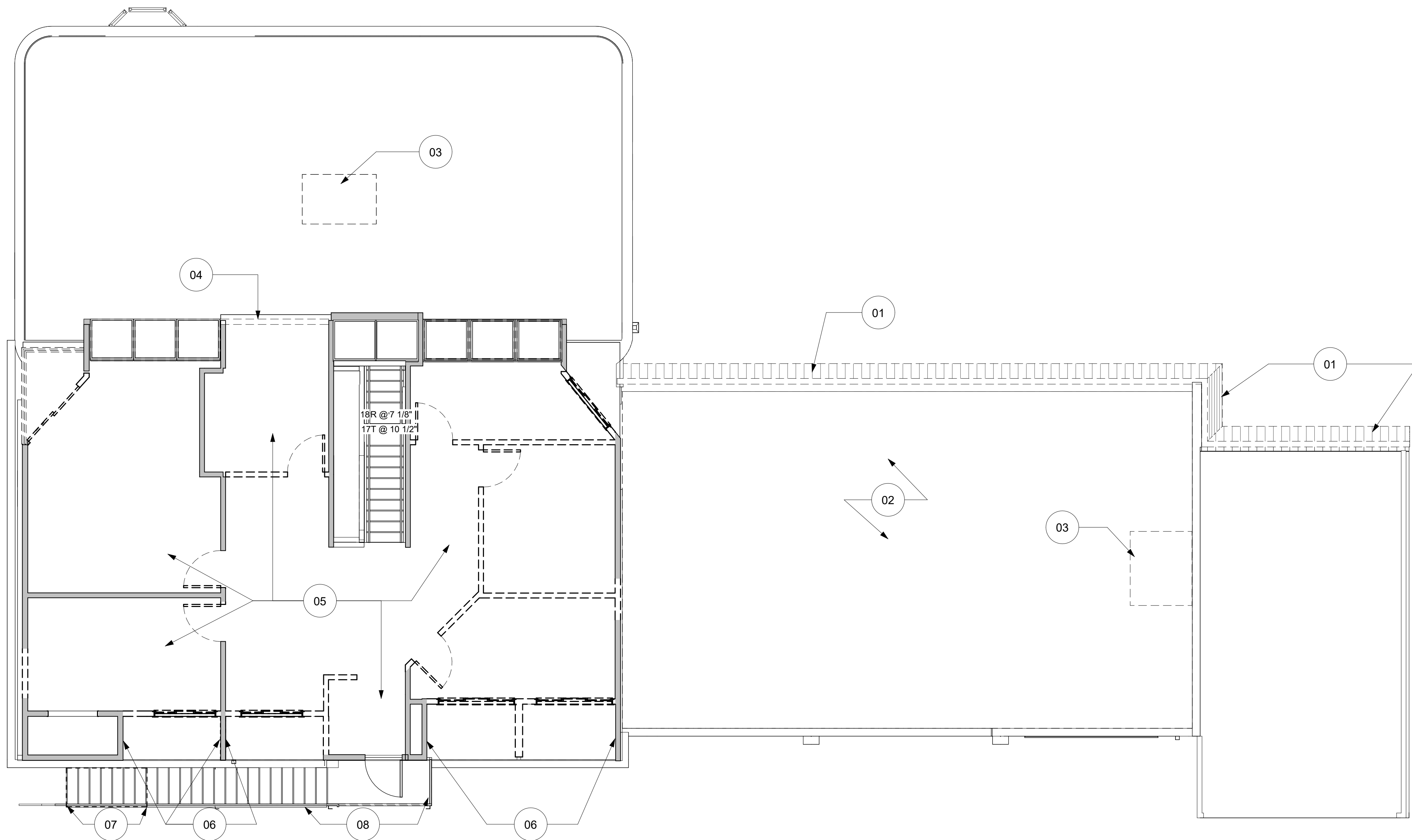
DATE
8/01/2022

REV. **1**

SCALE @ 24"x36"
As indicated

PROJECT NUMBER
21-4840

8/20/2022 3:04:26 PM



Upper Level Demo Notes	
Note Number	Note Text
01	EXISTING MANSARD TO BE DEMOLISHED
02	COORDINATE EXISTING ROOF FINISH w/ NEW. REMOVE AS REQUIRED FOR ALL ROOFS & PREP FOR NEW. REF: A01.03
03	REMOVE EXISTING RTU UNITS AND REPLACE PER MEP PLANS. REF M1.0 - MP0.4 SHEETS, TYP.
04	REMOVE EXISTING LOW CEILING AREA / SKYLIGHTS. EXTEND WALL HEIGHT OF WALL RE STRUCTURAL.
05	EXISTING ACT TO BE REMOVED THROUGHOUT UPPER LEVEL, AND RE-USED WHERE NECESSARY, ON COMMERCIAL AREA OF BUILDING. PATCH EXISTING GYP BD. CEILING ABOVE AS REQUIRED & PREP FOR PAINT. CONTRACTOR TO VERIFY R-49 INSULATION ABOVE CEILING. ADD AS REQ'D
06	REMOVE SIDING, COORDINATE FOR GYP BD.
07	DEMO BOTTOM PORTION OF STAIRS
08	EXTERIOR HAND/GUARD RAIL TO BE REMOVED

[illegible]

JUNIPER ROAD
STUDIOS

**KADAMPA
MEDITATION CENTER**

4840 W 29th Ave
Denver, CO 80212


Building Renovation

PROFESSIONAL SEAL

8/01/2022

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OR DISCREPANCIES BEFORE
BEGINNING OR FABRICATING
ANY WORK.

Upper Level Demolition

DRAWN BY JRS	SHEET AD1.02
DATE 8/01/2022	REV. 
SCALE @ 24"x36" 3/16" = 1'-0"	PROJECT NUMBER 21-4840

SHEET
AD1.02

DATE	8/01/2022
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REV. 

SCALE @ 24"x36"
3/16" = 1'-0"

PROJECT NUMBER
21-4840

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①

5



**4840 W 29th Ave
Denver, CO 80212**


Building Renovation

8/23/2022

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Existing Site Pla

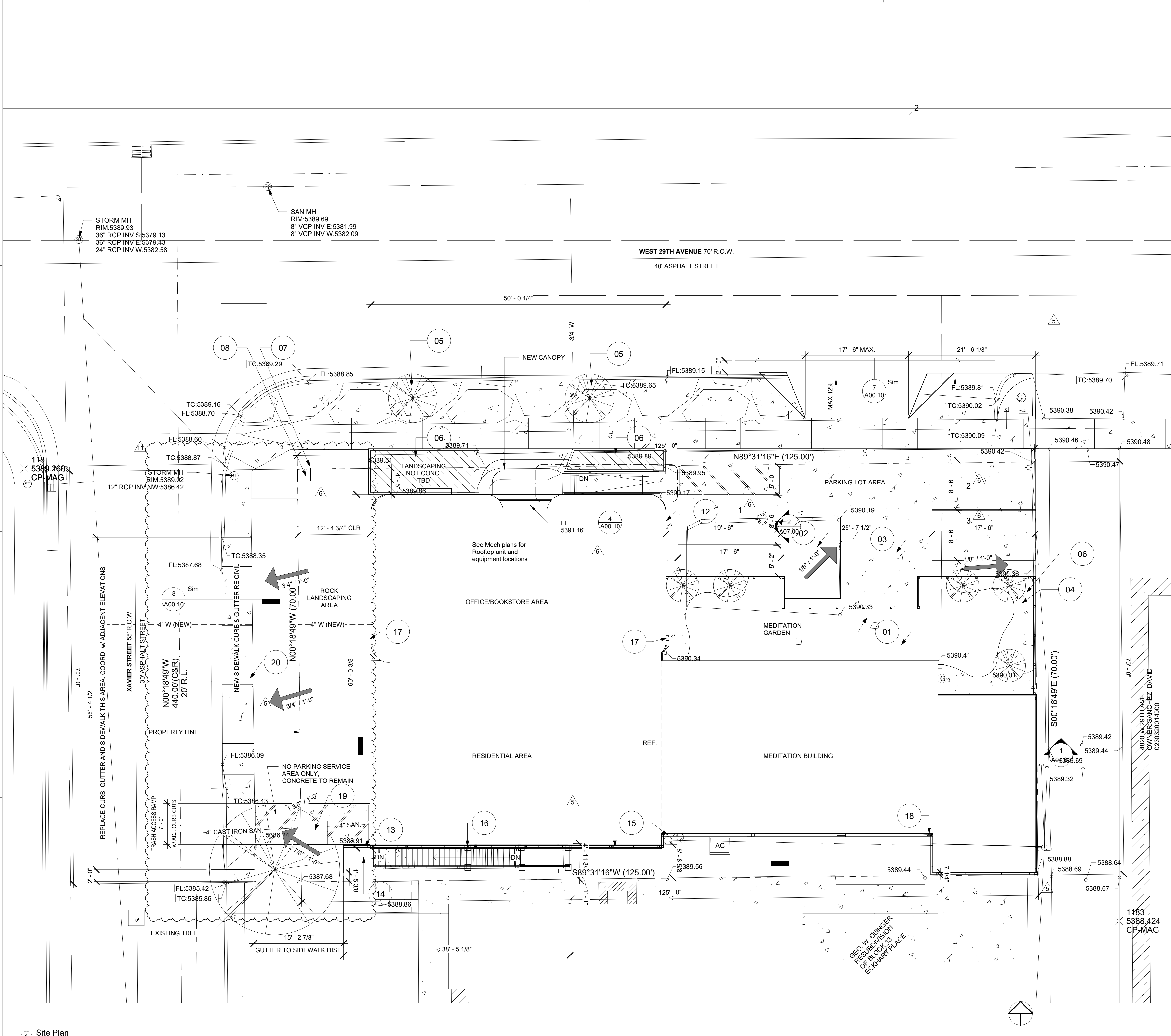
A00.00

REV. 

PROJECT NUMBER
21-4840

THIS DWG. AND ALL INFO. CONTAINED HEREIN IS THE PROPERTY OF JUNIPER ROAD STUDIOS, LLC. ALL RIGHTS ARE EXPRESSLY RESERVED AND IT MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT EXPRESSED WRITTEN CONSENT OF JUNIPER ROAD STUDIOS, LLC. 2021 BY JUNIPER ROAD STUDIOS, LLC.

1 Site Plan
1/8" = 1'-0"



Site Plan Notes	
Note Number	Note Text
01	GARDEN AREA PAVERS. GC TO DEMO EXISTING, PREP FOR NEW AND OWNER TO INSTALL PAVERS (TYPE TBD)
02	INFILL EXISTING PARKING LOT ASPHALT AREA w/ CONCRETE. DOWEL @ MAX. 2' SPACING
03	RESTRIPE PARKING AREAS AS REQ'D
04	OWNER INSTALLED PLANTS IN GARDEN AREA. GC TO PREP SOIL AND MAINTAIN SLOPE AWAY FROM STRUCTURE
05	SUGAR CONE MAPLE TREES IN NEW PLANTER CUT OUT MAX BETWEEN 35'
06	LANDSCAPING BY OWNERS
07	NEW BIKE RACK TO MEET CITY REQUIREMENTS
08	EXISTING BRICK PLANTER TO BE REMOVED.
09	NOT USED
10	NOT USED
11	RESTRIPE EXISTING CONCRETE. ADD THREE PARALLEL STRIPING PARKING IN THIS AREA, REF: A00.01 SHEET
12	WALL MOUNT ADA PARKING SIGNAGE @ 48" TO BOTTOM OF SIGN
13	PROVIDE GRATE OVER DOWNSPOUT COLLECTION GUTTER
14	PROVIDE CONCRETE LANDING WIDTH OF STAIRS X 5'
15	EX. RAIN GUTTER (6.25 X 6") @ GRADE FOR TRANSITION FROM ROOFTOP DOWNSPOUTS TO SURFACE WATER AWAY FROM NEIGHBORS PROPERTY. EXTEND EXISTING A TOTAL OF ~12' AROUND CORNER TO NEXT DOWNSPOUT. (3) 3X4 ALUM. & (1) 3.25" X 5.25" CORRUG. DOWNSPOUT FEED TO THIS DRAINAGE CHANNEL.
16	EX. RAIN GUTTER (5.25 X 9") @ GRADE FOR TRANSITION FROM ROOFTOP DOWNSPOUTS PAST BUILDING.
17	EX. 3.25" X 5.25" ALUM. DOWNSPOUT TO REMAIN. OVERFLOW SCUPPER TO REMAIN.
18	ROOF DRAINAGE PER DETAILS ON SHEET A10.50 TO (1) 3.25" X 5.25" CORRUG. DOWNSPOUT INTO GRADE LEVEL GUTTER AVOIDING DRAINAGE ONTO ADJACENT PROPERTY.
19	EXISTING DUMPSTER TO REMAIN (4' x 6' SHOWN)
20	INSTALL NEW 5' WIDTH SIDEWALK, CURB AND GUTTER PER DETAILS 8/A00.10

PHYSICAL ADDRESS
4840 S 29TH AVE. DENVER, CO 80212

PARCEL SIZE: 8,750 SQFT OR 0.201 ACRES
PARCEL: 02303-20-001-000
ZONING: U-MX-3
BUILDING FORM: GENERAL
BUILDING SIZE: 6,315 SQFT
ZONING SETBACKS: MIN / MAX. 0' / 15'

LEGAL DESCRIPTION:
LOTS 1 TO 3, INCLUSIVE, GEORGE W OLINGER RESUBDIVISION OF BLOCK 13, ECKHART PLACE, CITY AND COUNTY OF DENVER, STATE OF COLORADO

A PARCEL OF LAND SITUATED IN THE SOUTHWEST 1/4 OF SECTION 30, TOWNSHIP 3 SOUTH, RANGE 68 WEST OF THE 6TH P.M.

PARKING CALCS (RE: DZC 5.4.4)

	VEHICLES	BIKES
OCCUPANCY	SF RATIO REQ'D	RATIO REQ'D
A-3 RELIGIOUS	6315 0.5/1000/6 3.1575	1/10K 0.6315
PARKING REQUIRED	TOTAL = VEHICLES = 3.1575	BIKES = 0.6315

PER DZC SECTION 10.4.4.2.A.1 TOTALS MAY BE ROUNDED OFF, THUS

REQ'D VEHICLE PARKING = 3.0	BIKES = 1.0
ONSITE PARKING PROVIDED TOTAL = VEHICLES = 3.0	BIKES = 2.0

ALL THREE INCLUDING ONE HANDICAP SPACE ARE PROVIDED ON THE NORTH PARKING LOT WITH EXISTING ACCESS FROM WEST 29TH AVE. PARKING CALCULATIONS BASED ON MEETING WITH KENNETH BREWER, CITY OF DENVER, ZONING DEPARTMENT REVIEW 08/01/2022.

DATE	DESCRIPTION
4/08/22	Client Revisions
6/29/22	City Comments
8/01/22	Transmittal, Zoning Comments
10/01/22	Updated Sheet Index
11/21/22	West Site Indications

NO.	NO.
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11



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Denver, CO 80212
Building Renovation

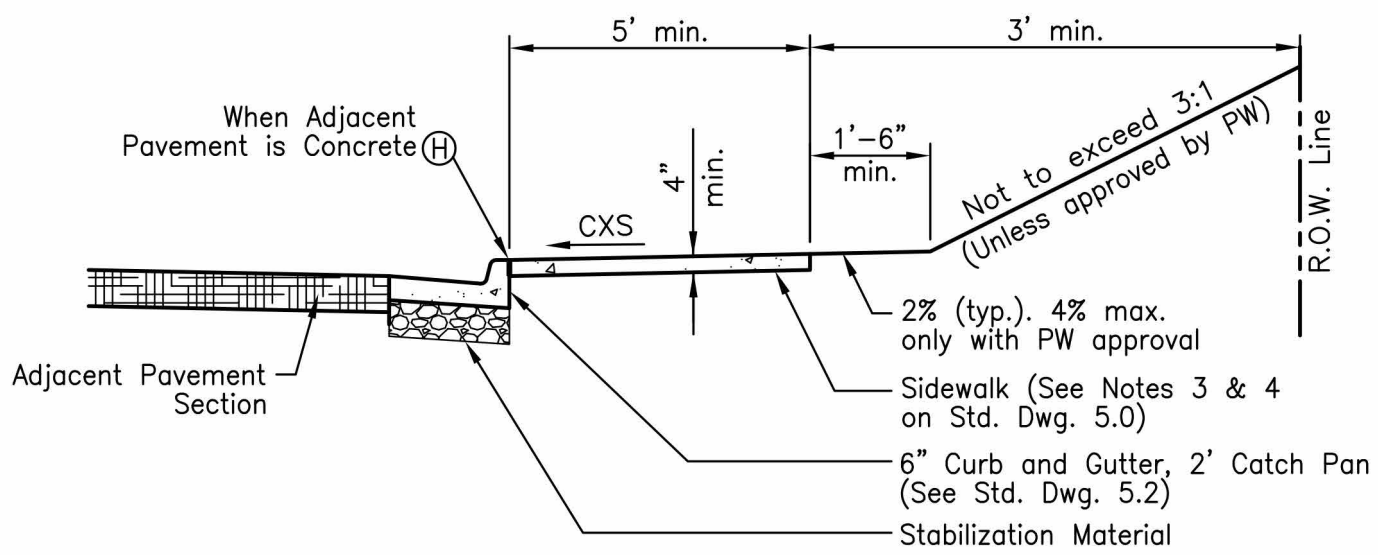
PROFESSIONAL SEAL
8/23/2022

DO NOT SCALE DRAWINGS
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Site Plan

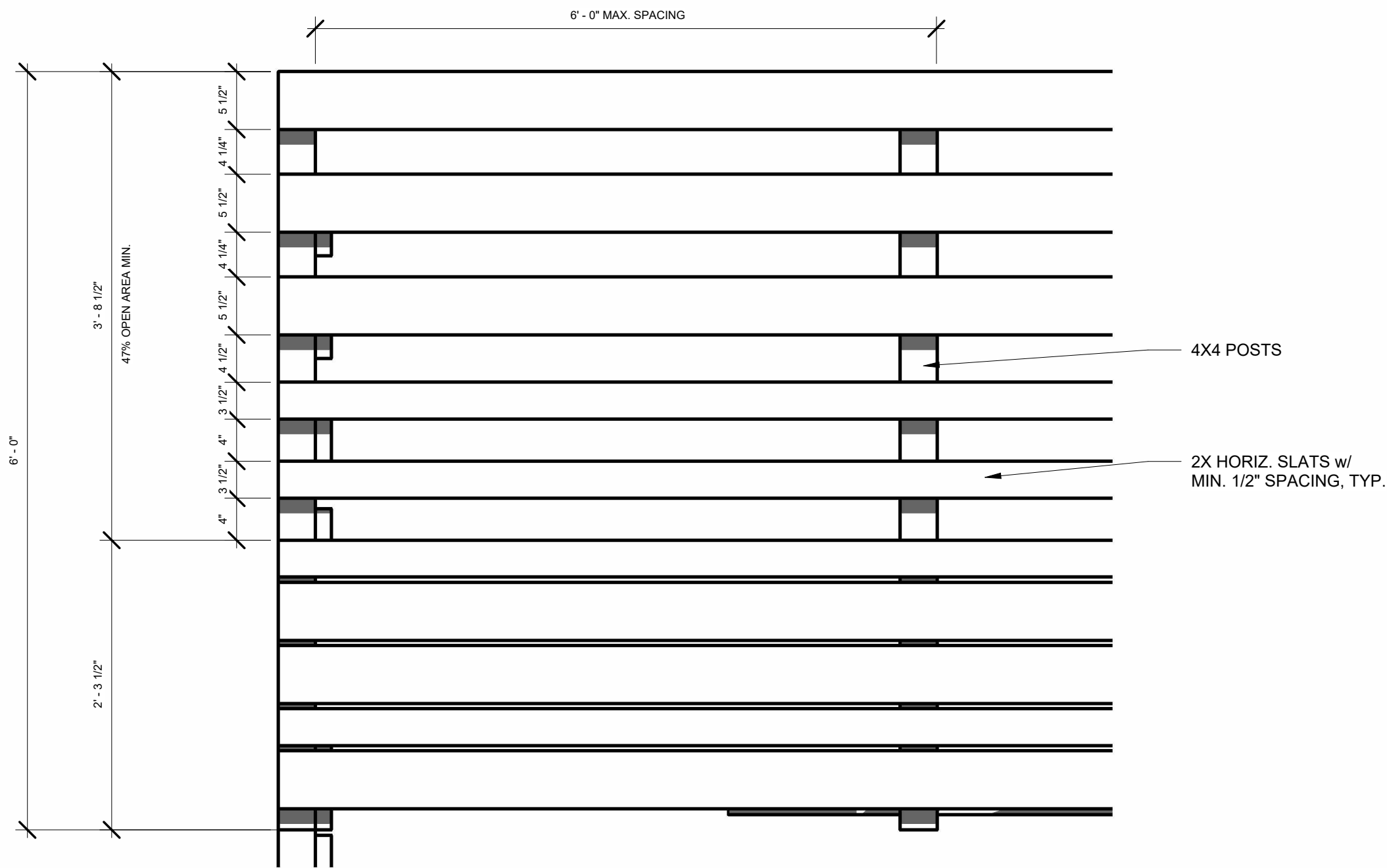
DRAWN BY JRS	SHEET A00.01
DATE 8/23/2022	REV. 11
SCALE @ 24"x36" 1/8" = 1'-0"	PROJECT NUMBER 21-4840

11/29/2022 2:46:07 PM

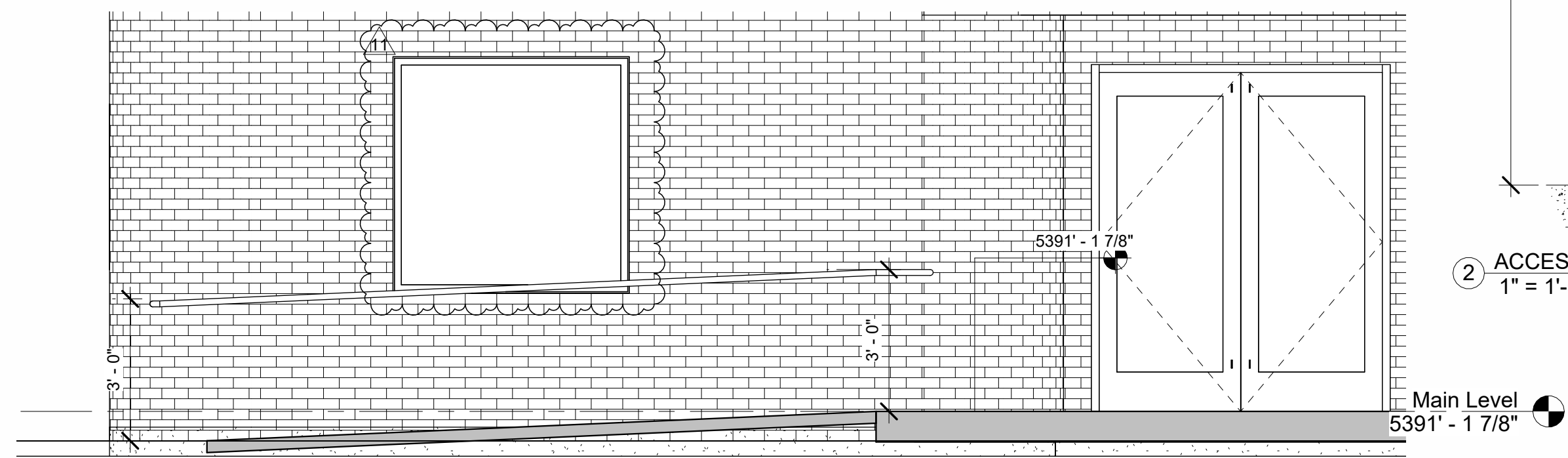


TYPICAL SECTION-6" CURB & GUTTER WITH ATTACHED SIDEWALK

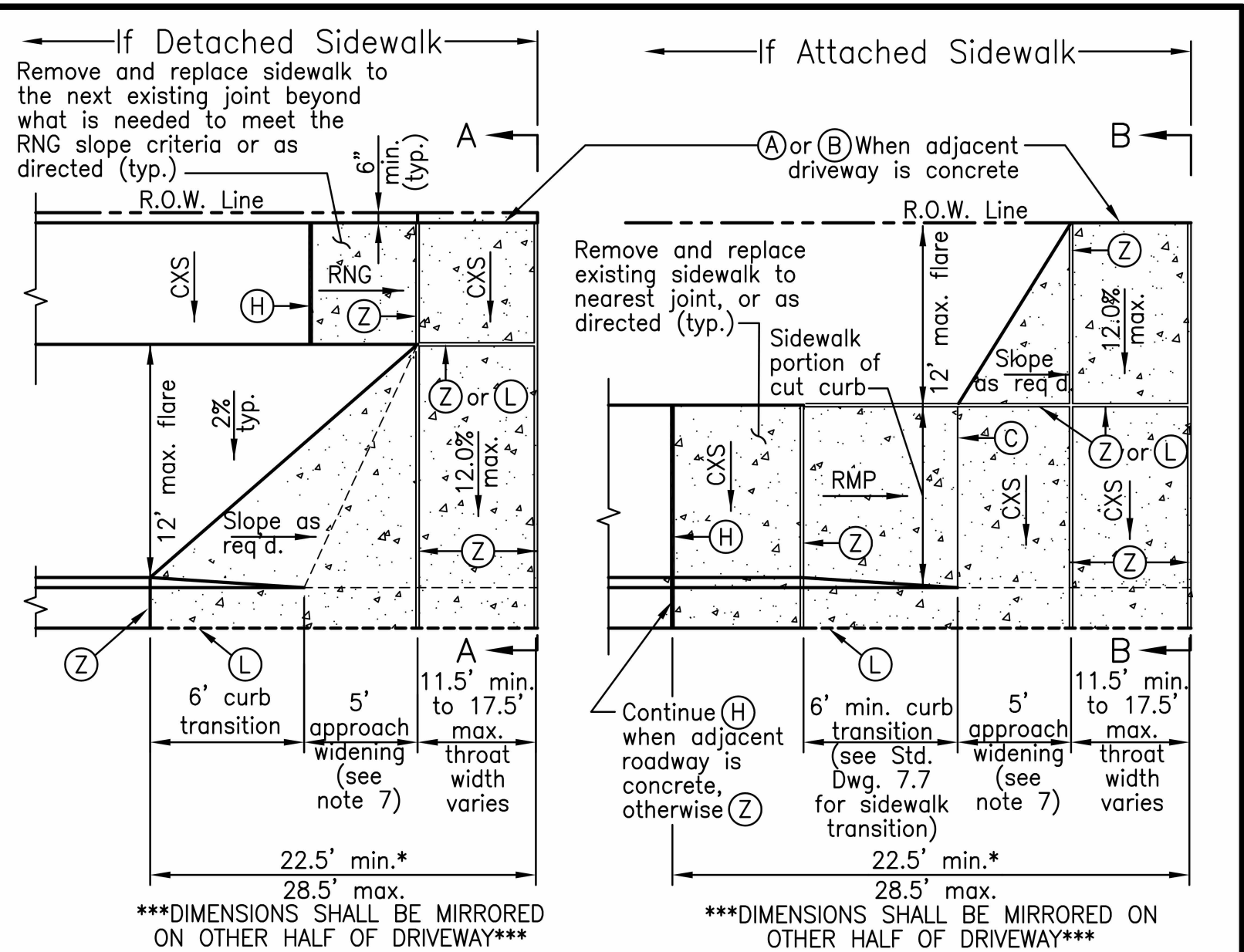
8 COD TRANSPORTATION DETAIL 5.1
1/4" = 1'-0"



3 FENCING DETAIL
1" = 1'-0"



6 SOUTH RAMP HANDRAIL ELEVATION
3/8" = 1'-0"



*Widths beyond min./max. dimensions shown must be approved by PW.

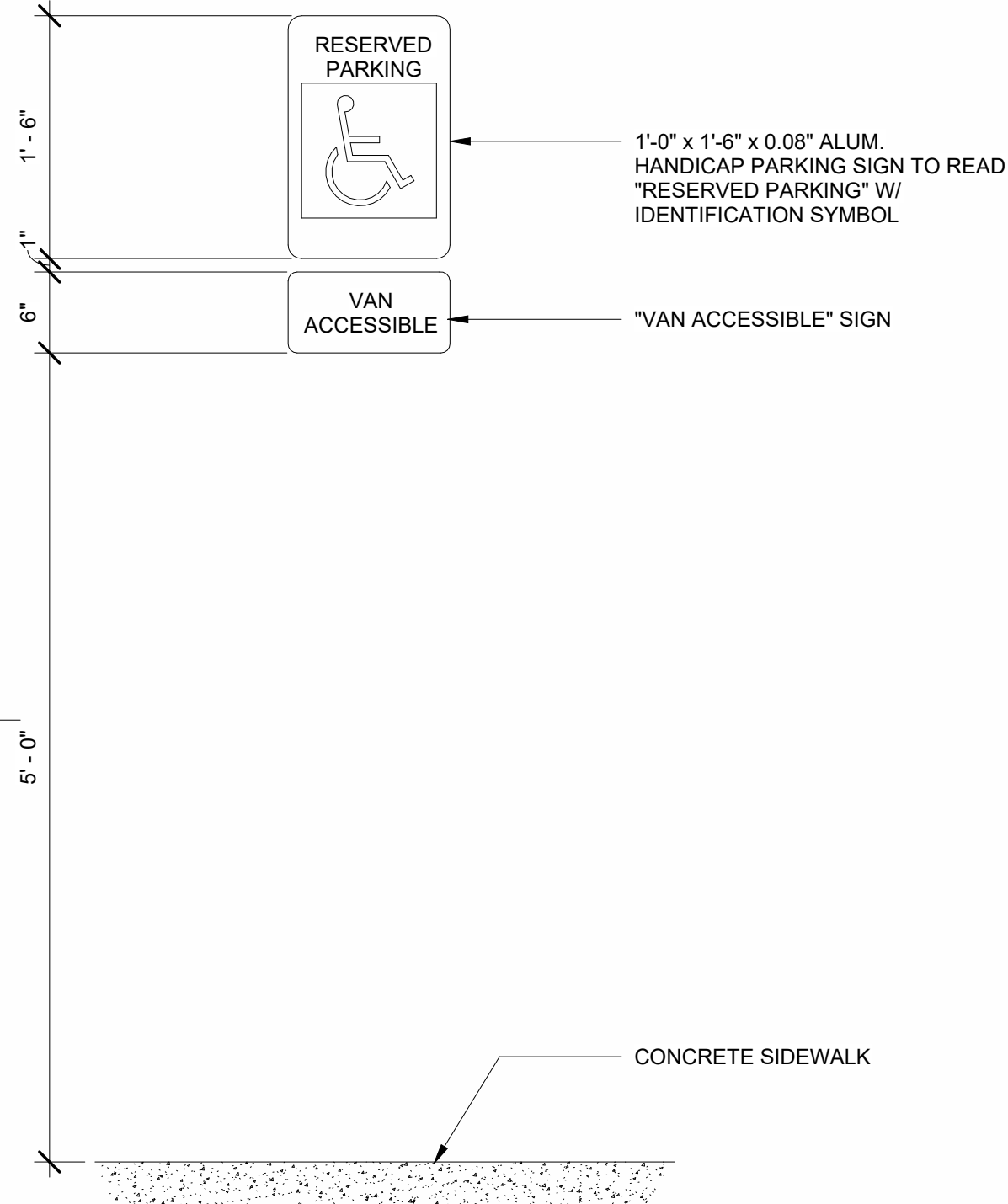
STANDARD COMMERCIAL & MULTI-FAMILY CURB CUT

- Notes:
1. Apply asphalt patch requirements in Std. Dwg. 12.0 when driveway is installed adjacent to existing asphalt street.
 2. Additional tooled joints may be required to provide definition of sidewalk or driving surfaces or to control the location of cracking.
 3. On-site parking stalls that back into the driveway aisle shall be located a minimum of 10' from the R.O.W. line, measured to the nearest point of the parking space.
 4. Any garage door or gate shall be located a minimum of 20' from the R.O.W. line and/or back of sidewalk, whichever is closer. A garage door or gate located at an exit only may be located at the R.O.W. line only by specific written permission of PW.
 5. The sidewalk portions of the curb cut shall match the width and alignment of the approaching sidewalk, with a minimum width of 5' and a cross-slope of CXS toward the flowline.
 6. Contact Office of City Forester at (720)913-0651 prior to performing any work within the drip line of existing R.O.W. trees.
 7. Narrower approach widening widths due to site constraints must be approved by PW.

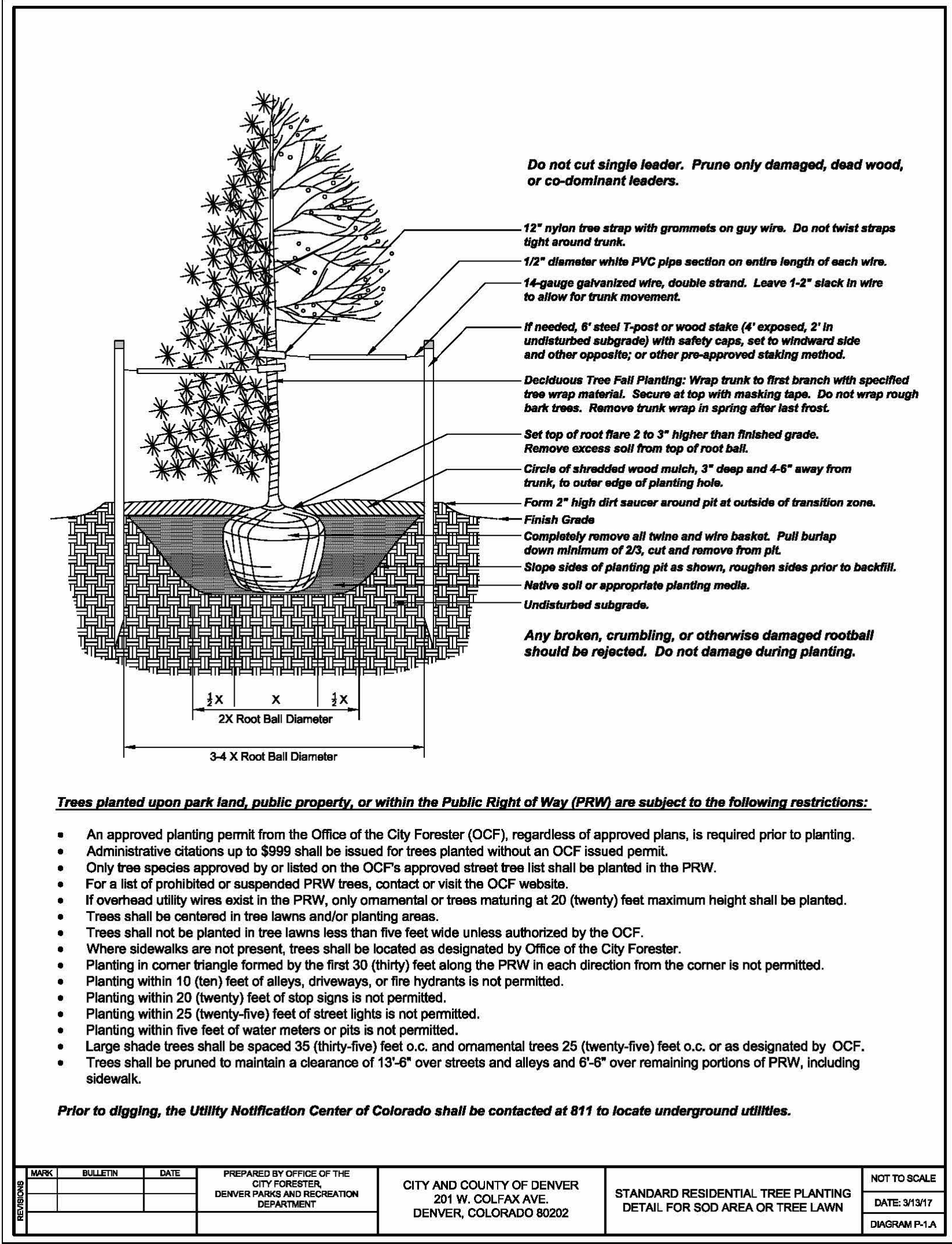
	City and County of Denver		Date:
	Transportation Standards & Details		04/17
	Standard Commercial and Multi-Family Curb Cut		Std. Dwg. 6.1

COMMERCIAL THROAT / SITE ACCESS

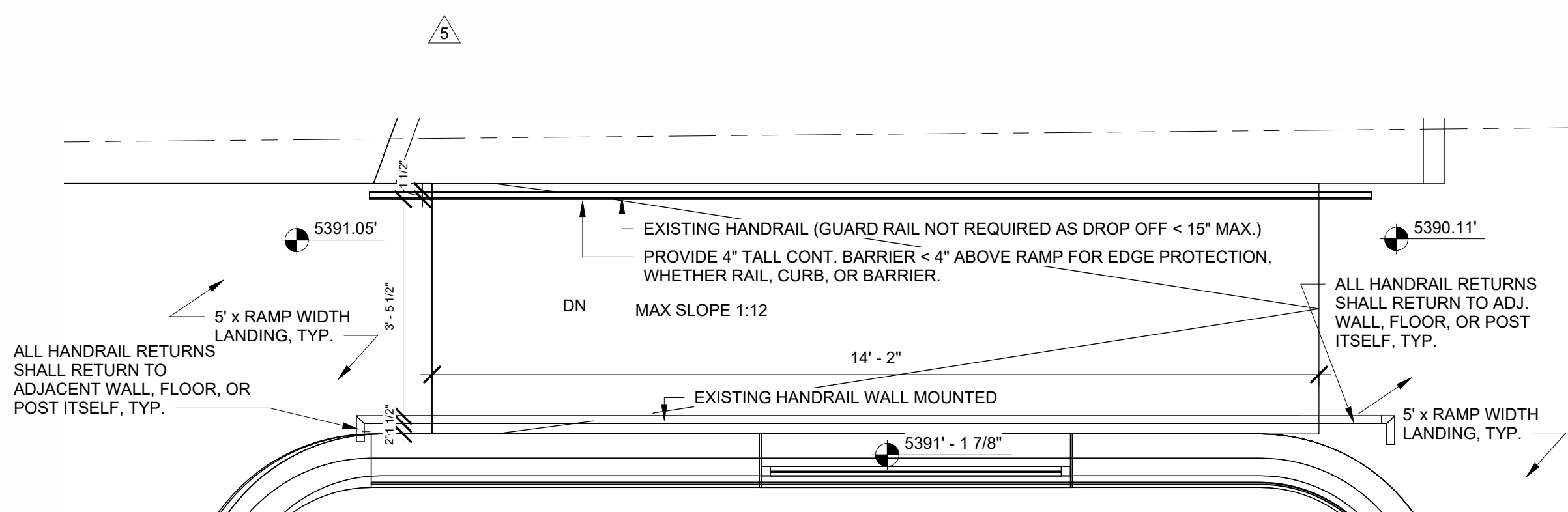
7 DETAIL
1/4" = 1'-0"



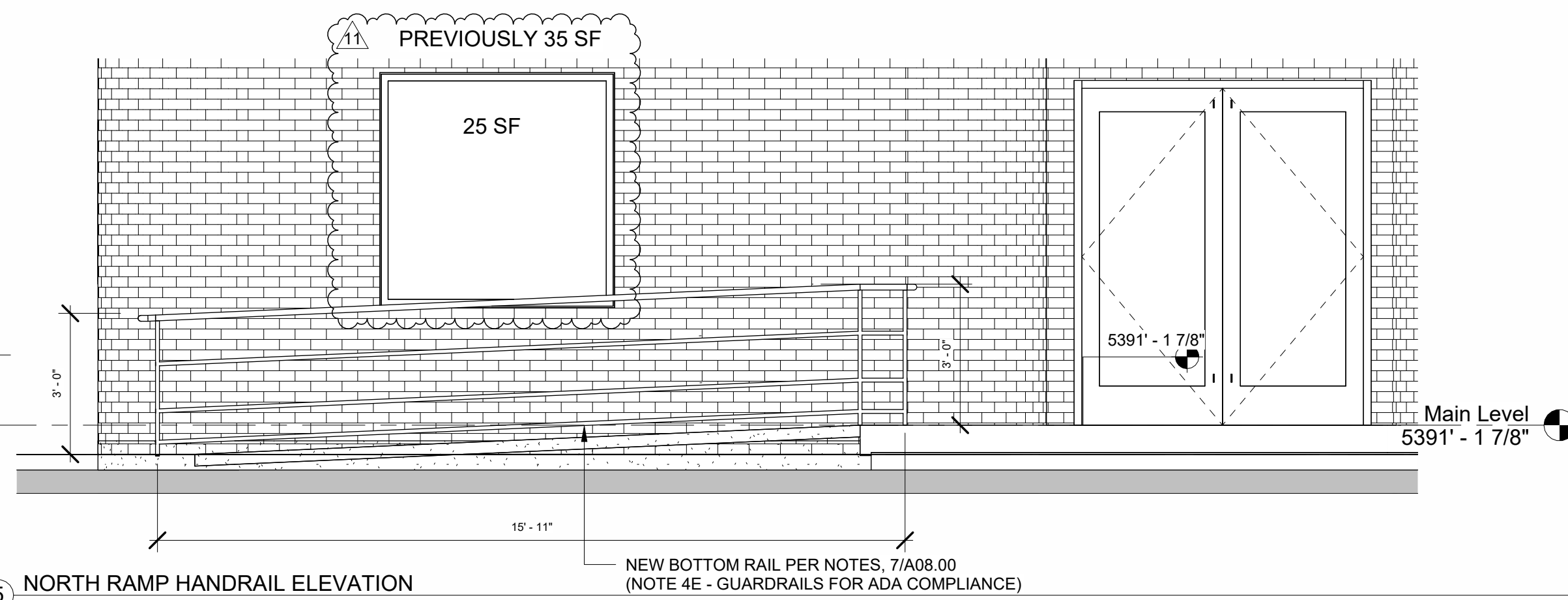
2 ACCESS. PARK. SIGN -WALL MOUNT
1" = 1'-0"



1 TREE PLANTING DETAIL
1/4" = 1'-0"



4 RAMP - ENLARGED PLAN
1/2" = 1'-0"



5 NORTH RAMP HANDRAIL ELEVATION
3/8" = 1'-0"

NO.	DESCRIPTION	DATE
6	City Comments	6/29/22
11	City Comments	8/23/22
11	West Site Modifications	11/2/22



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8/23/2022
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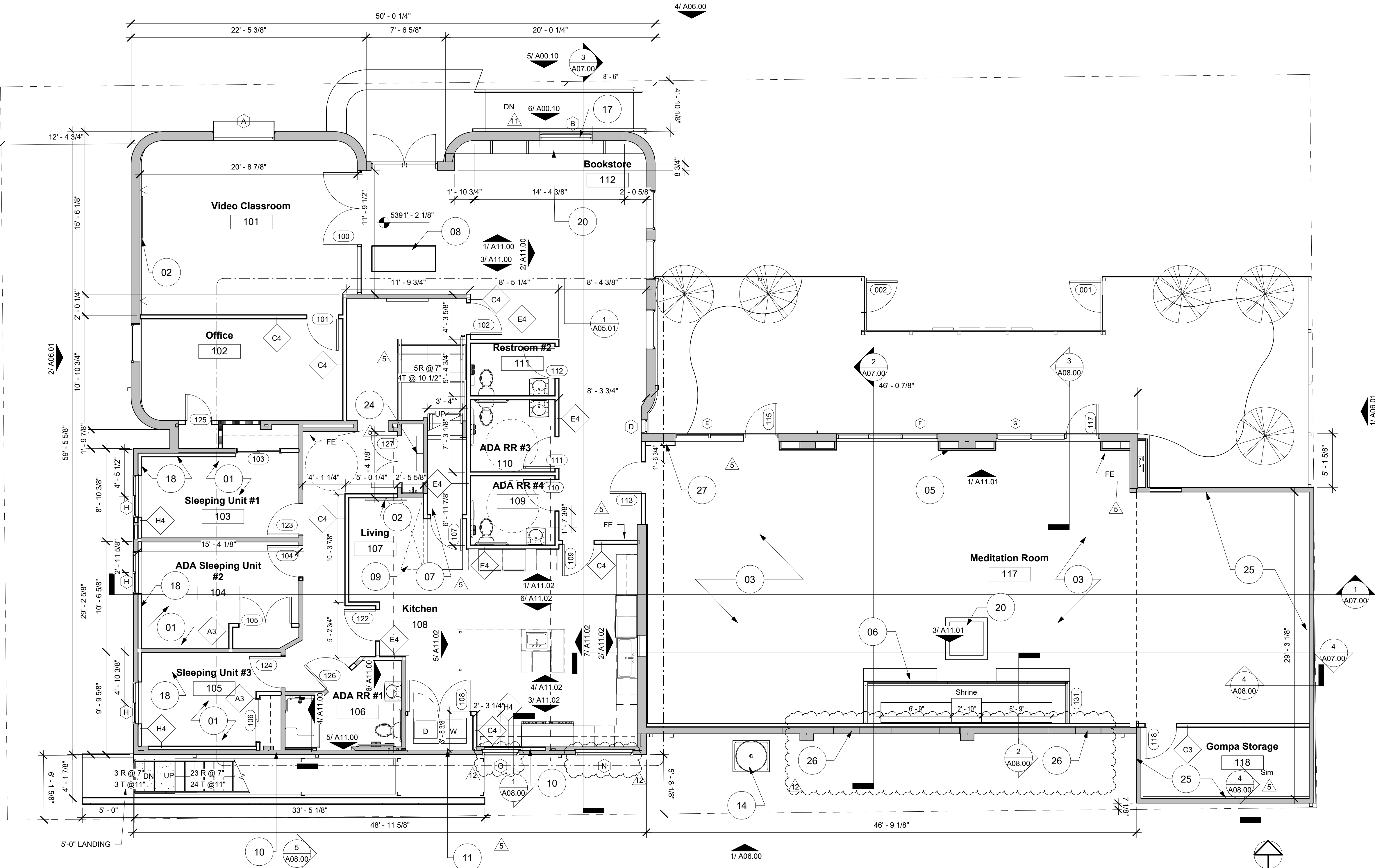
Site Details

DRAWN BY JRS	SHEET A00.10
DATE 8/23/2022	REV. 11
SCALE @ 24"x36" As indicated	PROJECT NUMBER 21-4840

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- GENERAL NOTES - FLOOR PLANS:**
- A. VERIFY ALL DIMENSIONS IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION OR INSTALLATION.
- B. TYPICAL DIMENSION LOCATIONS ARE TO F.O. CONC. OR GRID LINES OR LEFT/TOP SIDE OF F.O. STUD. UNO (TO F.O. STRUCTURAL MEMBERS, NOT TO F.O. FINISH MATERIALS).
- C. VERIFY WATER TABLE CONCERNS - A SUMP MAY BE REQUIRED AT LOW POINT(S) IN BASEMENT BELOW STAIRS OR CRAWL SPACE. RE-GRADE SITE TO SLOPE AWAY FROM HOUSE MIN. 8'-0"
- D. UNO, TYPICAL DOOR LOCATIONS ARE 4" FROM ADJACENT WALL SYSTEM.
- E. PROVIDE SOLID BLOCKING IN WALLS FOR ITEMS SUCH AS GRAB BARS, TOILET PAPER DISPENSER, TOILET PARTITIONS, PAPER TOWEL DISPENSERS, ETC.
- F. TYPICAL STUD FRAMED WALLS TO BE @ 24" O.C. - 2x6 EXTERIOR WALLS, 2x4 INTERIOR WALLS (2x6 AT PLUMBING WALLS WHEN NEEDED - GC TO COORD.) UNO
- G. CONTRACTORS SHALL ADHERE TO ALL CODES, RULES AND REGULATIONS FOR IBC AND SPECIFIC TRADE CODES.
- H. DO NOT SCALE DRAWINGS - LARGER SCALE DRAWINGS TO TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS, UNO
- I. ALL EXPOSED GYP. BD. EDGES TO HAVE METAL EDGE TRIM, TYP.
- J. PROVIDE TEMPERED GLAZING WHERE GLAZING IN FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF THE DOOR OR WHERE THE GLAZING IS WITHIN 24" OF THE WALKING SURFACE, OR WHERE GLAZING IS OVER 9sf PER LITE. WINDOWS IN PROCESS OR COAGULATOR AREA TO BE OF USDA APPROVED.
- K. SHADED WALLS OR AREAS TYPICALLY INDICATE OWNER SUPPLIED ITEMS OR EXISTING CONSTRUCTION, UNO
- L. MECHANICAL, PLUMBING, ELECTRICAL ARE ALL TO BE DESIGN-BUILD. PROVIDE DRAWINGS AS REQ'D PER THE LOCAL JURISDICTION. INSTALLATION TO MEET ALL CODE REQUIREMENTS, AND REASONABLE ASSUMPTIONS SHOULD BE MADE FOR COORDINATION PURPOSES AMONGST TRADES.
- M. SEE ELECTRICAL AND REFLECTED CEILING PLANS FOR ADDITIONAL NOTES.
- N. INTERIOR WALLS TO BE INSULATED WHERE OPENED UP AT BATHROOM AND BEDROOM WALLS, TYP.
- O. APPARENTLY ALL BUILDING MATERIALS ARE REQUIRED TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. (IECC 402.4.1.1)
- P. GC SHALL POST A PERMANENT CERTIFICATE WITHIN THE BUILDING EITHER IN FURNACE ROOM, UTILITY ROOM OR OTHERWISE APPROVED LOCATION BY BLDG DEPT. CERTIFICATE SHALL LIST a) R-VALUES OF INSULATION INSTALLED IN CEILING/ROOF, WALLS, FOUNDATION (SLAB, BASEMENT AND/OR CRAWL SPACE WALLS AND FLOOR), AND DUCTS OUTSIDE CONDITIONED SPACE; b) U-FACTORS & SHGC FOR FENESTRATIONS; c) RESULTS FROM ANY DUCT SYSTEM AND BLDG ENVELOPE AIR LEAKAGE TESTING WHERE MORE THAN ONE VALUE. CERTIFICATE SHALL LIST VALUE COVERING LARGEST AREA; d) LIST OF TYPES AND EFFICIENCIES OF HEATING, COOLING AND SERVICE WATER HEATING SYSTEM EQUIPMENT. ADD. NOTE: WHERE GAS FIRED UNVENTED HEATERS, FURNACE OR BASEBOARD ELECTRIC HEATER IS USED, NOTE THESE ON CERTIFICATE BUT DO NOT LIST EFFICIENCIES OF THESE. (IECC 401.3)
- Q. BUILDING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS. (IECC 403.3.5)

- 2 General Floor Plan Notes
- 1/4" = 1'-0"



- 1 Main Level
- 3/16" = 1'-0"

Floor Plan Notes	
Note Number	Note Text
01	SLEEPING UNITS SHALL BE INDIVIDUALLY SEPARATED w/ MIN. 1/2 HR FIRE RATED SEPARATION FROM ALL OTHER SPACES. GC TO CONFIRM ALL WALL & CEILING OPENINGS TO REMAINDER OF BUILDING ARE FIRE STOPPED. TYP. WALLS SHALL BE FINISHED PER 2018 TABLE 721.1(2) PRESCRIPTIVE CODE FOR ALL SLEEPING UNITS AND APARTMENT SEPARATION WALLS
02	WALL MOUNTED TV. COORDINATE POWER, CABLE AND DATA TO LOCATION. COORDINATE HEIGHT w/ TENANT.
03	RAISE FINISHED FLOOR TO FLUSH WITH REMAINDER OF BUILDING w/ (1) LAYER 3/4" DECKING ov/ 2X FRAMING@ 18"O.C. RE STRUCTURAL
04	NOT USED
05	FURR OUT INTERIOR WALLS w/ WITHIN MED. RM. W/ R-19 INSUL W/ 5/8" GYP AND FOR MIN 6" CAVITY.
06	SHRINE w/ OFFERING COUNTER. 1/2" TEMPERED GLASS BUTT JOINTED. SEE ELEVATION AND SECTION
07	SPACE BELOW STAIRS WITHIN R-3 OCCUPANCY SHALL BE PROTECTED ON THE ENCLOSED SIDE WITH 1/2" GYPSUM BOARD RE 2018 IBC 1011.7.3 EXCEPTION.
08	RECEPTION DESK w/ 30"W ADA COUNTER TO BE PROVIDED BY OWNER. SEE G02 SHEETS
09	OPEN TO ABOVE SKYLIGHT EXISTING
10	REMOVE WINDOW, INFILL WALL. INSULATE PER R-VALUE SCHEDULE. WALL FINISH TO MATCH ADJACENT, TYP.
11	VENT TO EXTERIOR
12	NOT USED
14	EXISTING CONDENSING UNIT TO REMAIN AS NEEDED. COORD. w/ MECH.
16	NOT USED
17	SAWCUT OPENING. INSTALL 1/4" STEEL PLATE FRAME w/ BLACKENED STEEL FINISH RE STRUCT.
18	FURR EXTERIOR WALLS w/ 3-5/8" STUDS INFILLED w/ R15 INSULATION. ALIGN WALL WITH EXPOSED CONCRETE EDGE.
20	MILLWORK TO BE PROVIDED AND INSTALLED BY OWNER.
21	NEW STOREFRONT SIGN TO BE INSTALLED BY SIGNAGE VENDOR. UNDER SEPARATE PERMIT GC TO PROVIDE POWER PER APP. SIGNAGE DRAWINGS.
22	EXISTING EXIT DOOR TO REMAIN. GC TO PROVIDE NEW HARDWARE, WEATHER STRIPPING/SEALS, DRIP EDGE, THRESHOLD FOR WEATHER TIGHT FENESTRATION.
23	INSULATED WALL WITH 5/8" RUBBER MEMBRANE ON EACH SIDE. GC TO COORDIANTE SPECS WITH ARCHITECT PRIOR WORK START.
24	TANKLESS WATER HEATERS AND MOP SINK w/IN THIS CLOSET.
25	PROVIDE 5/8" TYPE X' GYPSUM BD OR R-5 RIGID INSULATION BOARD
26	WINDOWS ABOVE CUT PLANE SEE BLDG ELEVATIONS A06.00 & A06.01
27	PROVIDE MAX OCCUPANCY SIGNAGE PER 2018 IBC SEC 1004.9
28	NEW HOSEBIB, COORD. W/ MECHANICAL

DATE	DESCRIPTION
4/08/22	
6/29/22	
11/21/22	
11/23/22	
NO.	NO.
1	Client Revisions
5	City Comments
11	West Site Modifications
12	Window Size Locations



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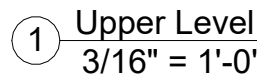
8/23/2022

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**Architectural
Floor Plan**

DRAWN BY JRS	SHEET A01.01
DATE 8/23/2022	REV. 12
SCALE @ 24"x36" As indicated	PROJECT NUMBER 21-4840

11/29/2022 1:40:11 PM



Floor Plan Notes	
Note Number	Note Text
01	SLEEPING UNITS SHALL BE INDIVIDUALLY SEPARATED w/ MIN. 1/2 HR FIRE RATED SEPARATION FROM ALL OTHER SPACES. GC TO CONFIRM ALL WALL & CEILING OPENINGS TO REMAINDER OF BUILDING ARE FIRE STOPPED. TYP. WALLS SHALL BE FINISHED PER 2018 TABLE 721.1(2) PRESCRIPTIVE CODE FOR ALL SLEEPING UNITS AND APARTMENT SEPARATION WALLS
02	WALL MOUNTED TV. COORDINATE POWER, CABLE AND DATA TO LOCATION. COORDINATE HEIGHT w/ TENANT.
03	RAISE FINISHED FLOOR TO FLUSH WITH REMAINDER OF BUILDING w/ (1) LAYER 3/4" DECKING ovl 2X FRAMING@ 18"O.C. RE STRUCTURAL
04	NOT USED
05	FURR OUT INTERIOR WALLS w/ WITHIN MED. RM. W/ R-19 INSUL W/ 5/8" GYP AND FOR MIN 6" CAVITY.
06	SHRINE w/ OFFERING COUNTER. 1/2" TEMPERED GLASS BUTT JOINTED. SEE ELEVATION AND SECTION
07	SPACE BELOW STAIRS WITHIN R-3 OCCUPANCY SHALL BE PROTECTED ON THE ENCLOSED SIDE WITH 1/2" GYPSUM BOARD RE 2018 IBC 1011.7.3 EXCEPTION.
08	RECEPTION DESK w/ 30"W ADA COUNTER TO BE PROVIDED BY OWNER. SEE G02 SHEETS
09	OPEN TO ABOVE SKYLIGHT EXISTING
10	REMOVE WINDOW. INFILL WALL. INSULATE PER R-VALUE SCHEDULE. WALL FINISH TO MATCH ADJACENT, TYP.
11	VENT TO EXTERIOR
12	NOT USED
14	EXISTING CONDENSING UNIT TO REMAIN AS NEEDED. COORD. w/ MECH.
16	NOT USED
17	SAWCUT OPENING. INSTALL 1/4" STEEL PLATE FRAME w/ BLACKENED STEEL FINISH RE STRUCT.
18	FURR EXTERIOR WALLS w/ 3-5/8" STUDS INFILLED w/ R15 INSULATION. ALIGN WALL WITH EXPOSED CONCRETE EDGE.
20	MILLWORK TO BE PROVIDED AND INSTALLED BY OWNER.
21	NEW STOREFRONT SIGN TO BE INSTALLED BY SIGNAGE VENDOR. UNDER SEPARATE PERMIT GC TO PROVIDE POWER PER APP. SIGNAGE DRAWINGS.
22	EXISTING EXIT DOOR TO REMAIN. GC TO PROVIDE NEW HARDWARE, WEATHER STRIPPING/SEALS, DRIP EDGE, THRESHOLD FOR WEATHER TIGHT FENESTRATION.
23	INSULATED WALL WITH 5/8" RUBBER MEMBRANE ON EACH SIDE. GC TO COORDIANTE SPECS WITH ARCHITECT PRIOR WORK START.
24	TANKLESS WATER HEATERS AND MOP SINK w/IN THIS CLOSET.
25	PROVIDE 5/8" TYPE X' GYPSUM BD OR R-5 RIGID INSULATION BOARD
26	WINDOWS ABOVE CUT PLANE SEE BLDG ELEVATIONS A06.00 & A06.01
27	PROVIDE MAX OCCUPANCY SIGNAGE PER 2018 IBC SEC 1004.9
28	NEW HOSEBIB, COORD. W/ MECHANICAL

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Lvl 2 Architectural Floor Plan

DRAWN BY
JRS

SHEET
A01.02

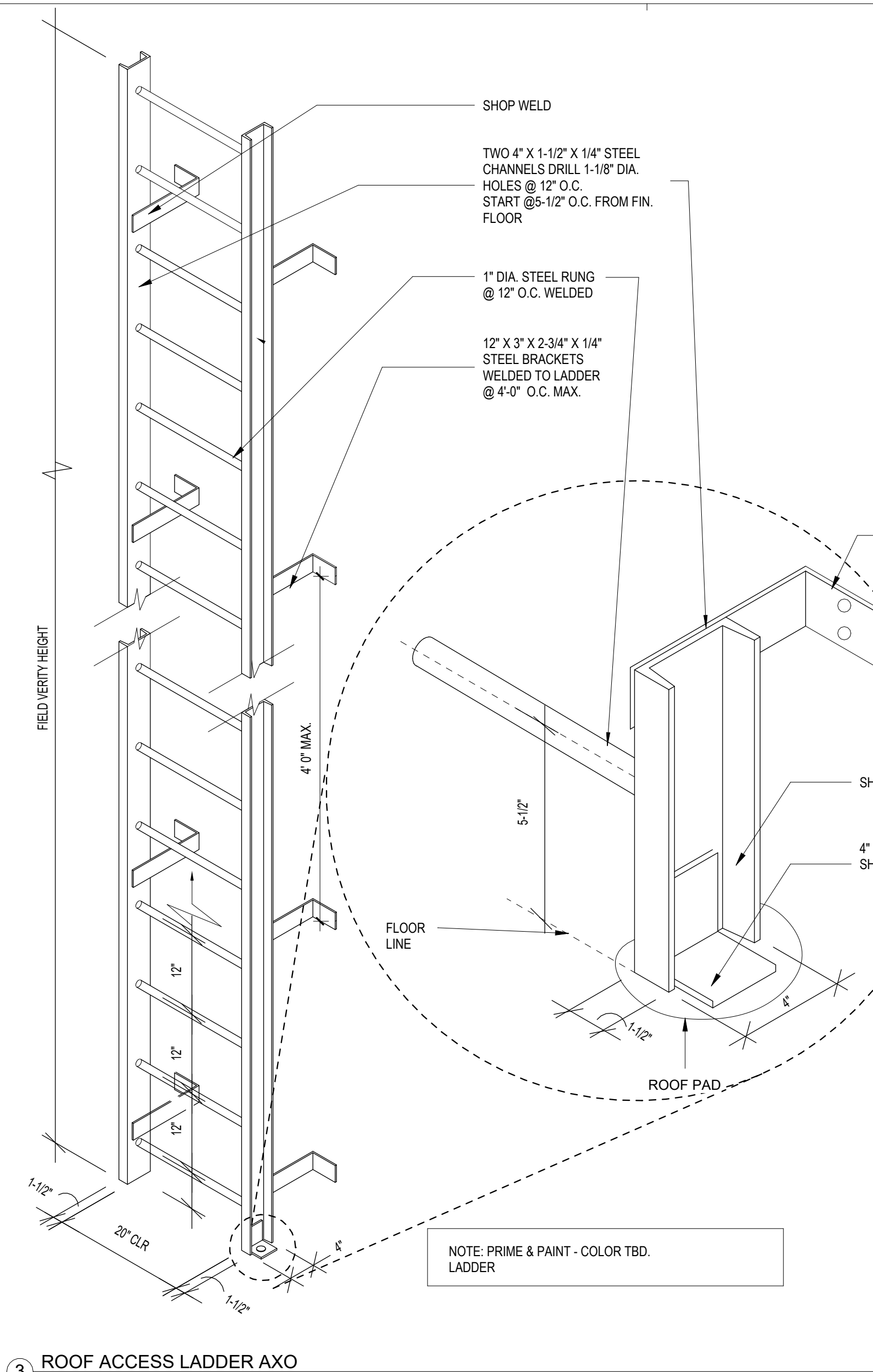
DATE
8/23/2022

REV.  13

SCALE @ 24"x36"
3/16" = 1'-0"

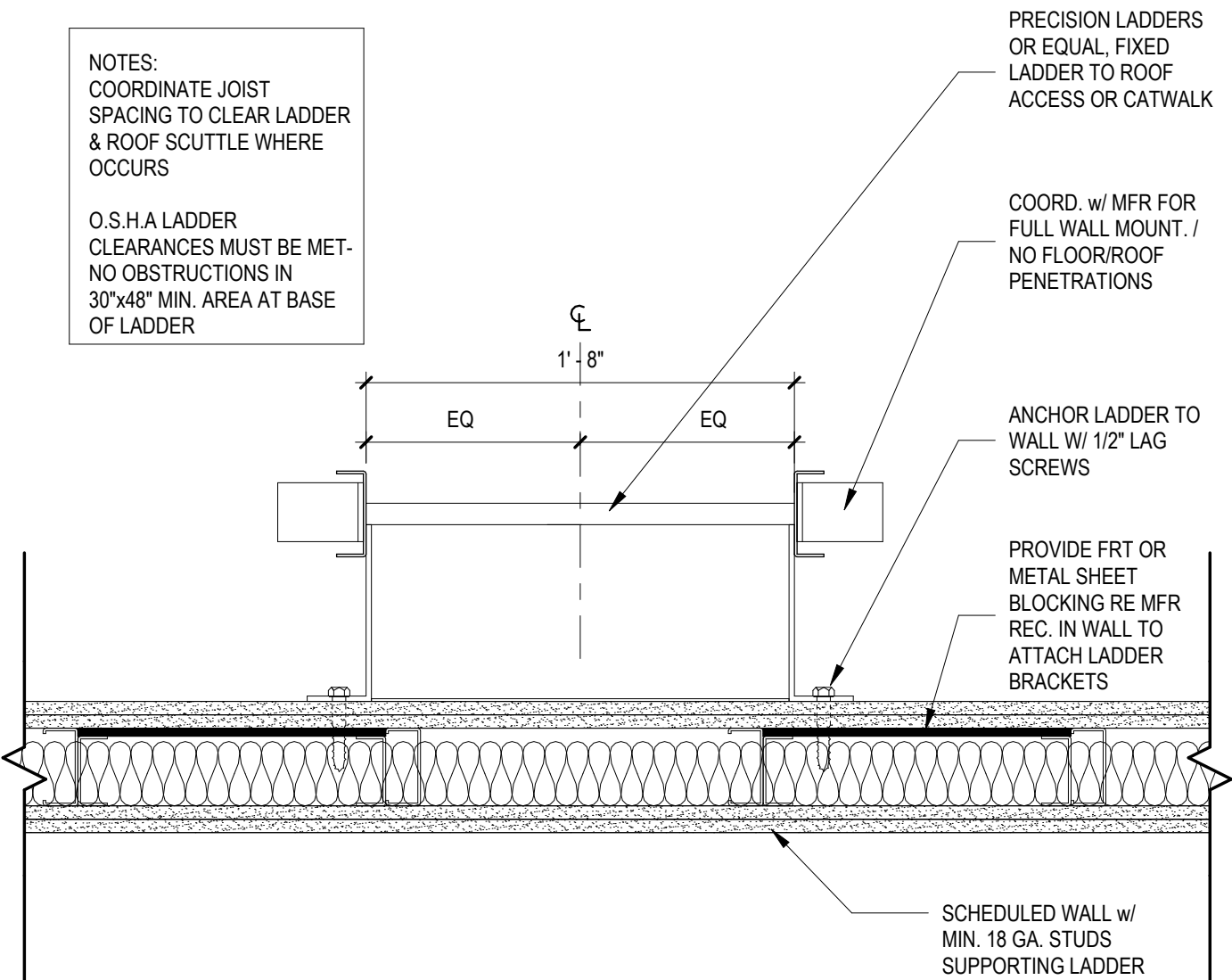
PROJECT NUMBER
21-4840

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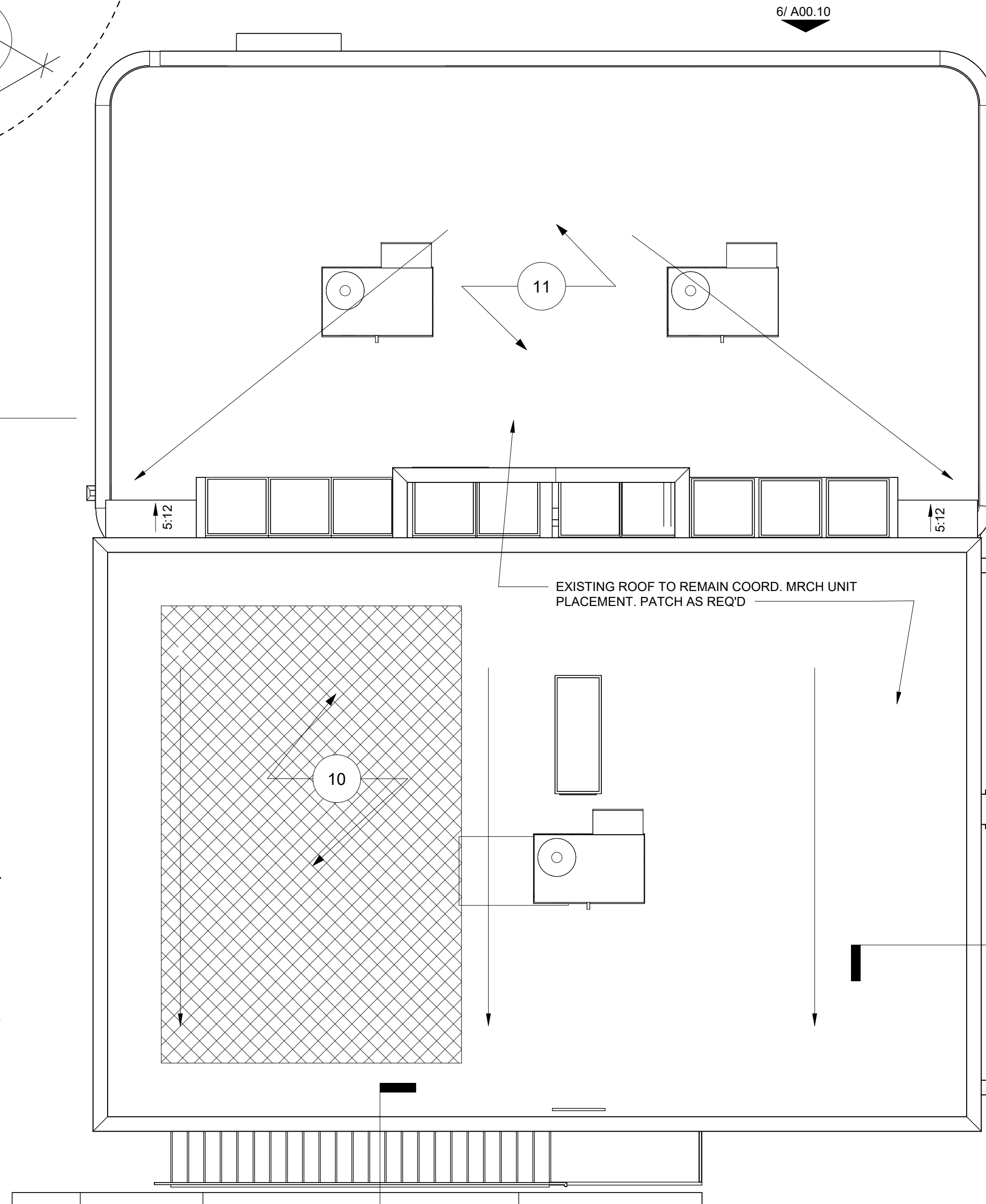


3 ROOF ACCESS LADDER AXO
3" = 1'-0"

NOTES:
COORDINATE JOIST SPACING TO CLEAR LADDER & ROOF SCUTTLE WHERE OCCURS
O.S.H.A LADDER CLEARANCES MUST BE MET- NO OBSTRUCTIONS IN 30"x48" MIN. AREA AT BASE OF LADDER



4 WALL MOUNTED LADDER - PLAN
1 1/2" = 1'-0"



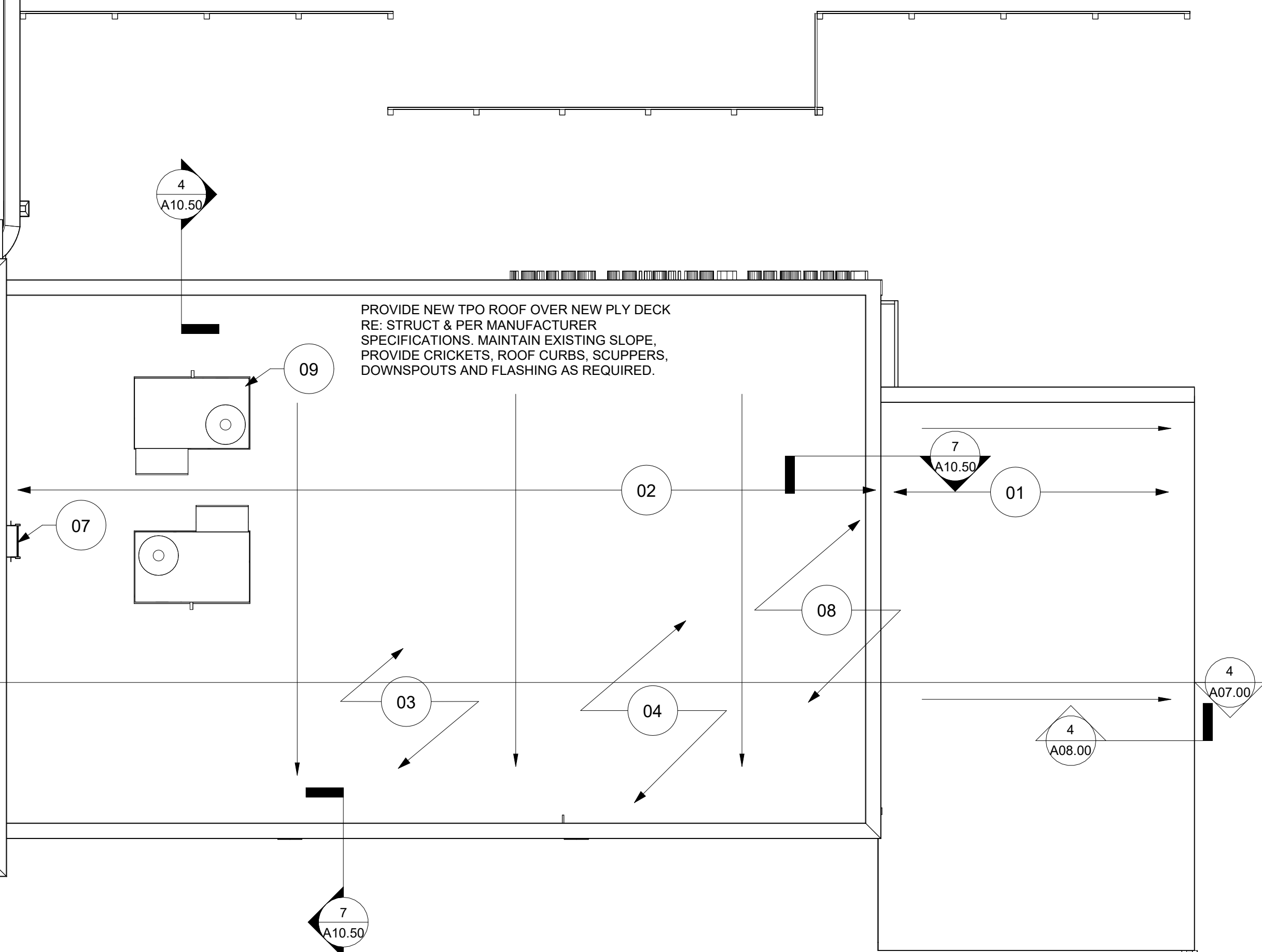
1 Roof Plan
3/16" = 1'-0"

Roof Plan Notes	
Note Number	Note Text
01	SLOPED ROOF TO REMAIN. PROVIDE NEW ARCH. ASPHALT SHINGLE ROOF
02	EXISTING ROOF TO BE REPAIRED AS REQ'D. NEW WATERPROOF PER GC.
03	ROOF TO HOUSE MECH. EQUIP. PLEASE REF: MEP DRAWINGS AND COORD. W/ ARCH ON SCREENING LOCATION, MATERIAL, AND INSTALLATION.
04	EXISTING ROOF STRUCTURE TO BE TREATED. NEW WATERPROOF MEMBRANE TO BE APPLIED. REPLACE ANY MECH. UNITS/ PLUMB AS NEEDED/ REQUIRED PER MEP PLANS. REF: M /M-P/ S SHEETS
07	WALL MOUNTED LADDER TO UPPER ROOF RE: DETAILS 03 & 04 THIS SHEET.
08	PARAPET WALLS w/ CAP PER DETAIL XX/A10.50
09	ROOF TOP UNITS RE: MECH. COORD ALL CURBS AND PENETRATIONS w/ ROOF MFR STANDARD DETAILS ON SHEET A10.50. SEE STRUCTURAL FOR OPENING BRACING DETAILS. SHOULD THEIR DETAILS BE UPDATED, FOLLOW THE MFR REQUIREMENTS. TYP. WHERE SHOWN - SEE BLDG ELCATIONS FOR SCREENING
10	SOLAR READY ZONE PER C401.2. APPENDIX CA - 426SF SHOWN.
11	EXISTING ROOF TO REMAIN COORD. NEW OPENINGS AS REQ'D - SEE MEP FOR EXACT LOCATION.

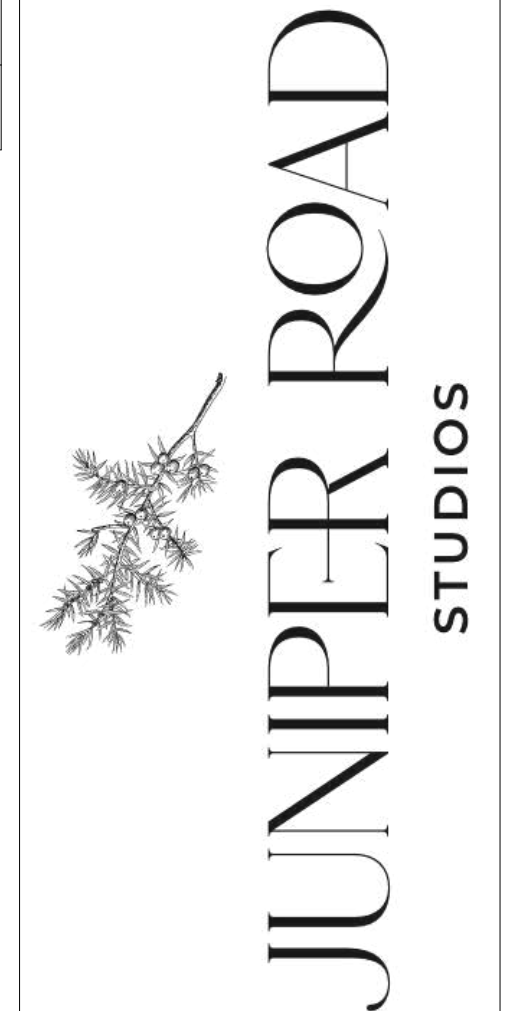
GENERAL ROOF NOTES

- UPPER AND FRONT/NORTH ROOF AREAS - WHITE (TPO SOLAR REFLECTANCE = 0.81, THERMAL EMITTANCE = 0.95) FULLY ADHERED 60 MIL "FIRESTONE ULTRAPLY" (OR APPROVED EQUAL) OVER EXISTING ROOF AREA PER MANUFACTURER RECOMMENDATIONS. COORDINATE ALL PENETRATIONS PER DETAILS A10.50. VERIFY MFR DETAILS CONSISTENT.
- EASTERN ROOF - WHITE (TPO SOLAR REFLECTANCE = 0.81, THERMAL EMITTANCE = 0.95) FULLY ADHERED 60 MIL "FIRESTONE ULTRAPLY" (OR APPROVED EQUAL) ON 1/2" ISOGARD HD (ADHERED R-2.5) OVER 2 LAYERS 2 1/2" CLOSED CELL POLYISOCYANURATE RIGID FOAM CORE INSULATION BOARD (MECHANICALLY FASTENED R-14.4) (JOHNS MANVILLE OR EQUAL) OVER 2 LAYERS 1/2" PLY. TOTAL OF R16.9 ABOVE ROOF DECK. COORDINATE ALL PENETRATIONS PER DETAILS A10.50. VERIFY MFR DETAILS CONSISTENT.
- BUILT UP ROOF CRICKETS WHERE REQUIRED. SLOPE @ 1/8" FT. MIN.
- SCHEDULED SCUPPER CONDUCTOR HEAD AND DOWNSPOUT. SEE DETAILS SHEET A10.50. COORDINATE OVERFLOW OPENING AT CONDUCTOR HEAD PER SMACNA STANDARDS.
- COORDINATE ROOFTOP UNITS LOCATIONS w/ MECHANICAL & STRUCTURAL. ALL UNITS TO BE PLACED PER MANUFACTURER RECOMMENDATIONS, INCLUDING BUT NOT LIMITED TO LEVELERS, ISOLATION PAD, ETC.
- FIRESTONE ULTRAPLY TPO WALKWAY PAD 30" WIDE, HEAT WELDED. COORDINATE ACCESS/MAINTENANCE TO ALL ROOF TOP UNITS FROM ACCESS POINT(S).

2 General Roof Notes
3/4" = 1'-0"



DATE	4/08/22
DESCRIPTION	
NO.	1
Client Revisions	



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Roof Plan

DRAWN BY JRS	SHEET A01.03
DATE 8/01/2022	REV. 1
SCALE @ 24"x36" As indicated	PROJECT NUMBER 21-4840

8/20/2022 3:03:04 PM

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6

- UNSHADED AREA INDICATES GENERAL LIMITS OF CONSTRUCTION UNLESS NOTED OTHERWISE.
- ALL CEILING TILES, GRID, AIR DISTRIBUTION DEVICES, STROBES, ALARMS AND OTHER ITEMS ASSOCIATED WITH THE CEILING INSTALLATION SHALL BE NEW, U.N.O.
- ALL CEILINGS ARE 2'-0" X 2'-0" ACOUSTICAL TILE. PROVIDE NEW CEILING GRID (USG DOWN CENTRICTEE 9/16") EXPOSED FLAT GRID DXT24 w/ DXT222 CROSS FLAT GRID IN FLAT WHITE COLOR) AND TILE (USG MARS HIGH NRC #88193 2x2' WHITE w/ EDGE TYPE FLB) ITEM CODE: ACT-1 OR GYP. BOARD @ 10'-0" A.F.F. UNLESS NOTED OTHERWISE. REFER TO REFLECTED CEILING PLAN LEGEND. CONTRACTOR SHALL FIELD VERIFY CEILING LAYOUT AND BRING ANY DISCREPANCIES TO THE ARCHITECT'S ATTENTION PRIOR TO INSTALLATION.
- REFLECTED CEILING PLANS (ARCHITECTURAL) ARE TO BE USED FOR THE EXACT LOCATION OF ALL LED LIGHT FIXTURES AND THE APPROXIMATE LOCATION OF ALL OTHER LIGHT FIXTURES. THE ELECTRICAL LIGHTING PLANS (MEP) ARE FOR CIRCUITING AND POWER REQUIREMENTS, AS WELL AS FOR LOCATION OF SWITCHES. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING PLANS AND OBTAIN CLARIFICATION BEFORE COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE COMPLETING THE INSTALLATION OF THE "DOWNLIGHT" AND "WALL-WASHER" LIGHT FIXTURES. THE ARCHITECT SHALL CONFIRM THE EXACT LOCATION OF THESE TYPE OF LIGHT FIXTURES IN THE FIELD WITH THE LIGHTS ENERGIZED BY THE CONTRACTOR.
- CONTRACTOR SHALL FIELD VERIFY WORKING CONDITION OF EXISTING LIGHT FIXTURES, THAT ARE SUITABLE TO BE REUSED. PROVIDE NEW LAMPS FOR ANY EXISTING LIGHTS TO BE REUSED.
- ALL LED LIGHT FIXTURES ARE LOCATED WITHIN FULL TILE DIMENSIONS, UNLESS NOTED OTHERWISE.
- REFER TO MEP DOCUMENTS FOR GENERAL LOCATIONS OF EXIT LIGHTS. FIELD VERIFY LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
- ALL AFFECTED EXISTING WORK SHALL BE PATCHED, FILLED IN, RESURFACED, ETC. TO SUCH AN EXTENT AS IS NECESSARY TO MAKE A HARMONIOUS BLENDING OF THE EXISTING AND THE NEW.
- REFER TO G03.00 G03.01 FOR TYPICAL MOUNTING HEIGHTS OF ALL LIGHT SWITCHES AND THERMOSTATS. VERIFY WITH ARCHITECT THE LOCATION OF ALL THERMOSTATS BEFORE INSTALLATION.
- WHERE MORE THAN ONE SINGLE POLE LIGHT SWITCH OCCURS, MOUNT ADJACENT TO EACH OTHER AND BEHIND ONE CONTINUOUS WALL PLATE.
- WHERE EXHAUST SWITCH OCCURS TOGETHER WITH LIGHT SWITCH(ES), MOUNT ADJACENT TO EACH OTHER AND BEHIND ONE CONTINUOUS WALL PLATE.
- WHERE DIMMER SWITCHES OCCUR ADJACENT TO SINGLE POLE SWITCHES, THE SINGLE POLE SWITCH SHALL MATCH THE DIMMER SWITCH IN APPEARANCE.
- WHERE CUSTOM COVER PLATES ARE REQUIRED TO HOUSE MANY SWITCHES WHICH HAVE BEEN GANGED TOGETHER, COVER PLATE SHOULD BE ENGRAVED TO INDICATE WHICH LIGHTS ARE CONTROLLED BY THERE RESPECTIVE SWITCHES. VERIFY THIS REQUIREMENT WITH THE ARCHITECT BEFORE ORDERING COVER PLATE.

3 Reflected Ceiling General Notes
1" = 1'-0"

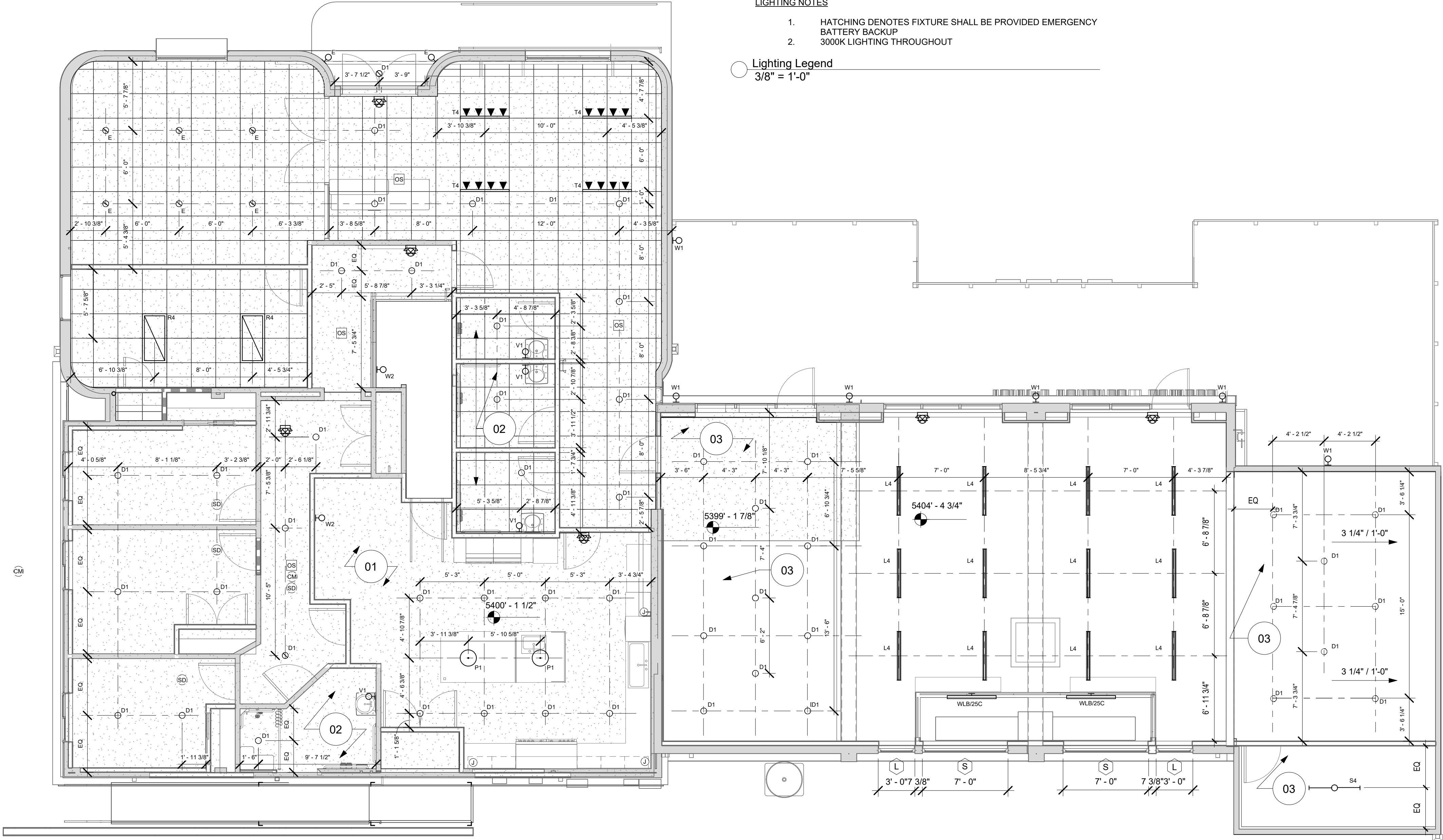
GENERAL LIGHTING NOTES:

- ALL WORK SHOULD BE PER NATIONAL ELECTRICAL CODES ALONG WITH LOCAL AND STATE REQUIREMENTS.
- ALL LIGHTS TO BE 3500K LED FIXTURES U.O.N.
- PROVIDE DIMMABLE POWER AND SWITCHING FOR UNDER COUNTER/CABINET LIGHTING, TYP.
- CIRCUITING DIAGRAM IS FOR CONNECTION OF FIXTURES ONLY. ELECTRICIAN SHOULD COORDINATE ACTUAL ROUTING, HOMERUNS AND PANEL USAGE FOR OUTLETS AND LIGHTING.
- ALL SWITCHING SHALL MATCH EXISTING IN COLOR AND TYPE (TOGGLE OR ROCKERY) U.O.N. DIMMING SHOULD BE TYPICAL, U.O.N.
- WHERE SWITCHES AND/OR OUTLETS CLOSE IN PROXIMITY, GROUP THEM TOGETHER UP TO A FOUR GANG BOX.
- PRIOR TO CONTRACTOR OPENING CEILING FOR NEW FIXTURES, CONFIRM LOCATION OF ROOF TRUSSES/FRAMING PRIOR.
- LIGHT FIXTURES IN SHOWER SHALL BE UL RATED FOR DAMP CONDITIONS.
- IC RATED RECESSED LIGHTING FIXTURES SEALED AT HOUSING/INTERIOR FINISH AND LABELED TO INDICATE <= 2.0CFM LEAKAGE AT 75 Pa.
- ALL NEW LIGHT FIXTURES SHALL BE LED.

2 General Lighting Notes
1/4" = 1'-0"

- CONTRACTOR TO SUBMIT SAMPLES OF SELECTED SWITCH AND COVER PLATE MANUFACTURER'S STANDARD COLORS FOR SELECTION AND APPROVAL. ALL SWITCHES, DIMMERS, OUTLETS, AND WALL PLATES (ETC.) SHALL MATCH THE WALL SURFACE ON WHICH THE SWITCH IS LOCATED. NOTE THAT ALL SWITCHES AND COVER PLATES MAY NOT MATCH THROUGHOUT AN THE ENTIRE AREA OF THE PROJECT DEPENDING ON WALL SURFACE FINISH. IF THE SWITCH IS LOCATED ON WOOD PANELING/SURFACE, PROVIDE BROWN (OR SIMILAR) SWITCH, OUTLET AND/OR COVER PLATE. SUBMIT SAMPLES FOR ARCHITECT'S APPROVAL OF COLOR.
- PROVIDE ACOUSTICAL AIR TRANSFER BOOTS ABOVE CEILING IN PARTITIONS TO DECK WHICH CLOSE OFF RETURN AIR SPACE. REFER TO MECHANICAL PLANS.
- FIELD VERIFY WITH ARCHITECT THE LOCATION OF ANY ACCESS PANELS INDICATED ON THE MEP DOCUMENTS OR AS REQUIRED BY CODE. ACCESS PANELS TO BE PAINTED TO MATCH THE FINISH SURFACE WHERE INSTALLED UNLESS OTHERWISE NOTED.
- 2'-0" X 4'-0" LED LAY-IN LIGHT FIXTURES SHALL BE SUPPORTED BY (6) HANGERS AND HURRICANE CLIPS AS REQUIRED TO MEET CODE REQUIREMENTS.
- FIELD VERIFY WITH ARCHITECT THE EXACT FINAL LOCATION OF ALL NEW FIRE ALARM / ADA STROBES SO AS NOT TO ADVERSELY IMPACT PRIME LOCATIONS FOR ARTWORK OR OTHERWISE DETRACT FROM THE OVERALL AESTHETIC. INSTALL IN ACCORDANCE WITH ALL APPLICABLE CODES.
- ALL NEW LIGHT FIXTURES TO HAVE 3500°K COLOR TEMPERATURE LAMPS INSTALLED U.N.O., RE: LIGHT FIXTURE SCHEDULE.
- ALL EXPOSED GYP. BOARD CEILINGS SHALL BE TAPED, FLOATED & PAINTED P-2 U.N.O.
- NEW ROOF PENETRATIONS AND CURBS WHERE REQUIRED SHALL FOLLOW BUILDING REQUIREMENTS AND STANDARDS BY LICENSED (BUILDING MANAGE QUALIFIED) ROOFING CONTRACTOR.
- REFER TO SHEET G00.00 - G03.00 FOR A COMPLETE LIST OF GENERAL NOTES & T.A.S.
- CEILINGS AT ALL ROOMS TO MATCH EXISTING HEIGHT A.F.F. U.N.O. CEILING HEIGHTS LOCATE ON PLAN ARE FROM TOP OF FINISH FLOOR TO UNDERSIDE OF FINISH CEILING, U.N.O.D.
- ALL LIGHT FIXTURES TO BE RELOCATED "R" U.N.O.
- SEE ENGINEERED ELECTRICAL DRAWINGS FOR FIXTURES NUMBER AND QUANTITIES.
- ALL PENDANTS, DOWNLIGHTS, WALL WASHERS & DEVICES LOCATED IN LAY-IN CEILING TO BE CENTERED ON TILE U.N.O.
- ALL LIGHTS MUST BE SUSPENDED INDEPENDENT OF CEILING GRID SYSTEM.
- G.C. TO VERIFY COUNT OF ALL FIXTURES, NEW OR RELOCATED. REPAIR OR REPLACE TO MATCH AS REQUIRED.
- REPAIR OR REPLACE ALL MISSING, DAMAGED OR STAINED LIGHT FIXTURES. CEILING TILES AND/OR GRID AS REQUIRED.
- G.C. TO VERIFY RUN LENGTH OF UNDERCABINET LIGHT FIXTURE AND INCLUDE IN SUBMITAL FOR APPROVAL.
- SPRINKLERS TO BE COORDINATED BY G.C. AS DEFERRED SUBMITTAL PROVIDE COPY TO ARCHITECT FOR REVIEW PRIOR.
- FIRE ALARMS, SMOKE & CARBON MONOXIDE DETECTION SYSTEMS TO BE BY CONTRACTOR. TYPICAL WILL BE ONE SMOKE DETECTOR/ALARM WITHIN EACH BEDROOM AND ONE CENTRALLY LOCATED OUTSIDE GROUP OF BEDROOMS/APARTMENT ACCESS.

1 Gampa Level Ceiling
3/16" = 1'-0"



LIGHTING LEGEND

	SURFACE MOUNTED DOWNLIGHT
	RECESSED MOUNTED DOWNLIGHT
	WALL MOUNTED LIGHT
	STRIP TYPE LIGHT
	PENDENT LIGHT
	SUSPENDED LINEAR LED FIXTURE
	2' X 4' RECESSED LIGHT
	2' X 2' RECESSED LIGHT
	TRACK LIGHTING
	CEILING MOUNTED OCCUPANCY SENSOR
	EMERGENCY BATTERY LIGHT (2 HEAD)
	CEILING MOUNTED EXIT SIGN
	EMERGENCY BATTERY LIGHT (2 HEAD) WITH MOUNTED EXIT SIGN

LIGHTING NOTES

- HATCHING DENOTES FIXTURE SHALL BE PROVIDED EMERGENCY BATTERY BACKUP
- 3000K LIGHTING THROUGHOUT

Lighting Legend
3/8" = 1'-0"

Reflected Ceiling Plan Notes

Note Number	Note Text
01	EXISTING GYP. BOARD CEILING TO REMAIN, PATCH AND FIRESTOP ALL PENETRATIONS, TYP. PROVIDE 2ND LAYER OF 5/8" TYPE X THROUGH OUT BELOW UPPER FLOOR
02	EXISTING ACT TO BE RE-PAINTED & RE-INSTALLED PER CHANNEL PERIMETER TO MATCH EXISTING PATTERN.
03	NEW 5/8" TYPE "X" GYP. CEILING TO BE PAINTED PER ARCH SPECS.

DATE	4/08/22
DESCRIPTION	Client Revisions City Comments
NO.	1 5



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Reflected Ceiling Plan

DRAWN BY JRS	SHEET A02.01
DATE 8/01/2022	REV. 5
SCALE @ 24"x36" As indicated	PROJECT NUMBER 21-4840

8/20/2022 3:03:06 PM

LIGHTING- ELECTRICAL SCHEDULE									
TAG	ITEM	DESCRIPTION	MANUFACTURER/SUPPLIER	QTY	FINISH	LIGHTING TEMP	LOCATION	IMAGE	NOTES
D1	5" Surface-Mounted LED Downlight	ASMR5-30KC-MVD1-W	Contech	67	White trim	LED, 3000k	Mult.		
D2	4" Recessed Tight-Spot Downlight	NU4-RD-13LM-30K-80-510-120-RET-WH-WH	Alphabet	1		LED, 3000k			
D3	7" Surface-Mount LED Downlight	ASMR7-30KC-MVD1-W	Contech	3	White trim	LED, 3000k			
EM	Interior Emergency Egress Luminaire	EZ-2L	Dual-lite			LED			Provide with 90 minute battery backup, integral self diagnostics, arrows as shown on plans and mounting type as shown plan
L4	Linear Surface Direct	67L-S-D-4-4-DM-C1-27k-D0750-D01-1C-UNV	Litecontrol	16		LED, 2700k			
P1	Reception Pendant	TBD	TBD	2		TBD	Kitchen		
R2	2x2 Flat Panel LED Troffer	SRP22-30-ML-G-ED-U (FK22-GYP CLGS)	Columbia	2		LED, 3000k	Prep. Room		
R4	2x4 Flat Panel LED Troffer	SRP24-30-VW-G-ED-U (FK24-GYP CLGS)	Columbia	2		LED, 3000k	Office		
S1	Exterior Surface-Mount	TBD	TBD			LED, 3000k	Meditation Garden		
S4	4-FT LED Strip	LCL-4-35K-LW-E-U	Columbia	3		LED, 3500k	AV, F Riser, Grompa Stage		
T4	4-FT Track Kit, LED Heads	LTK8070-F-27-D-X	Contech			LED, 2700k			
V1	Restroom Vanity Sconce	TBD	TBD	6		LED, 3000k	Bathrooms		
W1	Entry Sconce, Full-Cutoff	TBD	TBD	6		LED, 3000k	Front Exterior		
W2	TV Nook, Stair Landing Sconce	TBD	TBD	2		LED, 3000k	Living Room, Stairs		

LIGHTING LEGEND

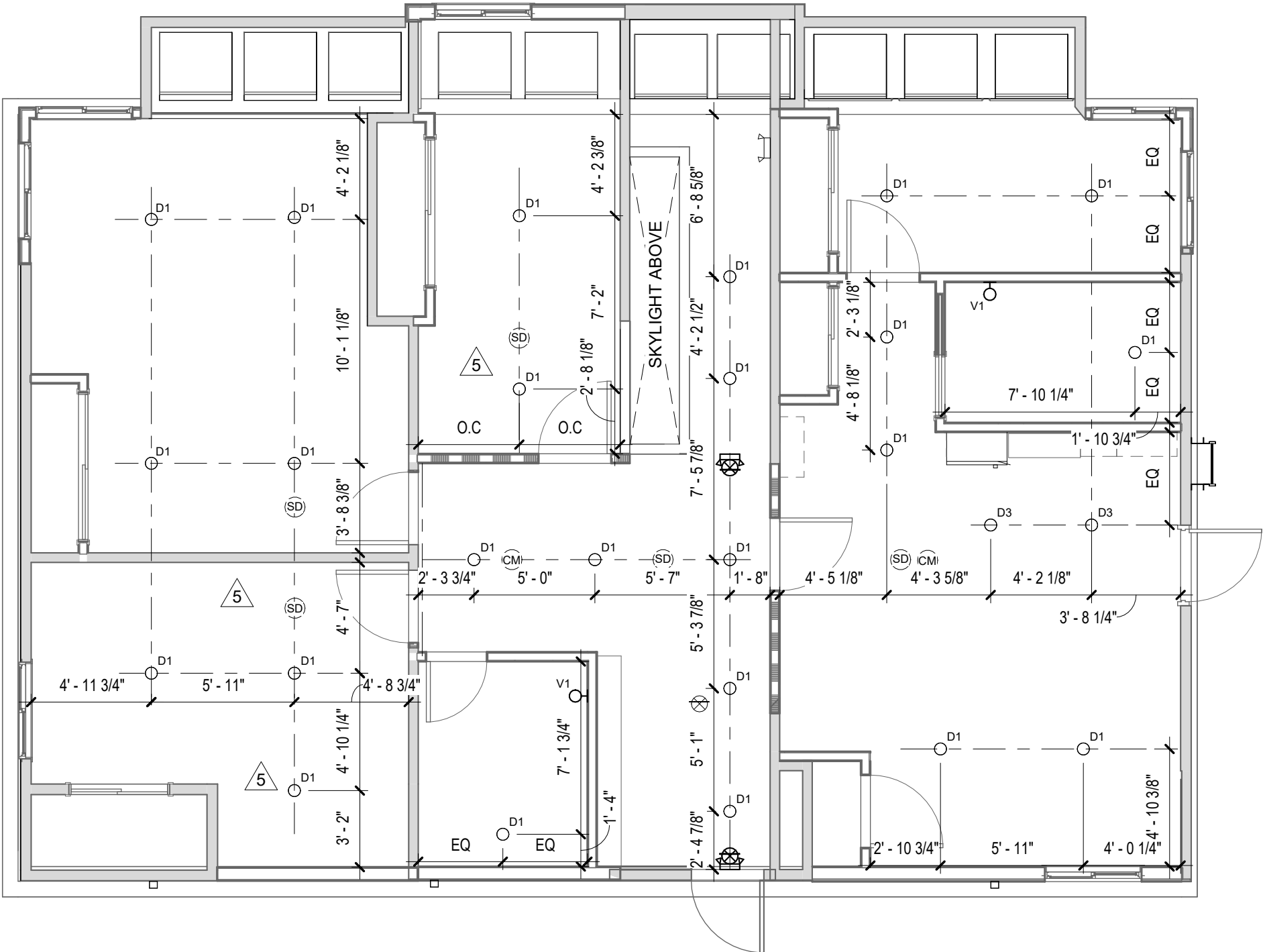
	SURFACE MOUTED DOWNLIGHT
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LIGHTING NOTES

- HATCHING DENOTES FIXTURE SHALL BE PROVIDED EMERGENCY BATTERY BACKUP
- 3000K LIGHTING THROUGHOUT

Lighting Legend
3/8" = 1'-0"

Reflected Ceiling Plan Notes	
Note Number	Note Text
01	EXISTING GYP. BOARD CEILING TO REMAIN, PATCH AND FIRESTOP ALL PENETRATIONS, TYP. PROVIDE 2ND LAYER OF 5/8" TYPE X THROUGH OUT BELOW UPPER FLOOR
02	EXISTING ACT TO BE RE-PAINTED & RE-INSTALLED PER CHANNEL PERIMETER TO MATCH EXISTING PATTERN.
03	NEW 5/8" TYPE "X" GYP. CEILING TO BE PAINTED PER ARCH SPECS.



1 Upper Level
3/16" = 1'-0"



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ANY WORK.

Lvl 2 Reflected
Ceiling Plan

DRAWN BY
JRS

SHEET
A02.02

DATE

8/01/2022

REV.

5

SCALE @ 24"x36"
As indicated

PROJECT NUMBER
21-4840

- 1 UNSHADED AREA INDICATES GENERAL LIMITS OF CONSTRUCTION UNLESS NOTED OTHERWISE.
- 2 ALL PLATE DIMENSIONS FOR ELECTRICAL, TELEPHONE AND/OR DATA RECEPTACLES ARE TO THE CENTERLINE OF THE WALL PLATE, UNLESS NOTED OTHERWISE.
- 3 ALL BACK TO BACK TELEPHONE, ELECTRICAL AND/OR DATA RECEPTACLES ARE TO BE LOCATED AT 12" INTERVALS, UNLESS OTHERWISE NOTED.
- 4 CONTRACTOR TO SUBMIT SAMPLES OF SELECTED SWITCH AND COVER PLATE MANUFACTURER'S STANDARD COLORS FOR SELECTION AND APPROVAL. ALL SWITCHES, DIMMERS, OUTLETS, AND WALL PLATES ETC.) SHALL MATCH THE WALL SURFACE ON WHICH THE SWITCH IS LOCATED. NOTE THAT ALL SWITCHES AND COVER PLATES MAY NOT MATCH THROUGHOUT AN THE ENTIRE AREA OF THE PROJECT DEPENDING ON WALL SURFACE FINISH. IF THE SWITCH IS LOCATED ON WOOD PANELING/SURFACE, PROVIDE BROWN (OR SIMILAR) SWITCH, OUTLET AND/OR COVER PLATE. SUBMIT SAMPLES FOR ARCHITECT'S APPROVAL OF COLOR.
- 5 CONTRACTOR MUST MARK ALL SWITCHES, THERMOSTATS, AND ADA STROBE LOCATIONS IN THE FIELD FOR REVIEW AND APPROVAL BY THE ARCHITECT BEFORE INSTALLATION. FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR RELOCATING SUCH ITEMS WITHOUT ADD EXPENSE TO THE OWNER, TENANT OR ARCHITECT.
- 6 THE ARCHITECTURAL POWER PLANS ARE TO BE USED FOR HEIGHTS AND APPROXIMATE LOCATIONS OF RECEPTACLES. THE MEP POWER PLANS ARE TO BE USED FOR CIRCUITING AND POWER REQUIREMENTS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE MEP AND ARCHITECTURAL POWER PLANS AND OBTAIN CLARIFICATION BEFORE COMMENCING CONSTRUCTION.
- 7 PROVIDE GFCI OUTLETS AT ALL LOCATIONS AS REQUIRED BY CODE.

2 General Electrical Notes


LIGHTING NOTES

1. HATCHING DENOTES FIXTURE SHALL BE PROVIDED EMERGENCY BATTERY BACKUP
2. 3000K LIGHTING THROUGHOUT

①



01	WALL MOUNTED CAMERA BY A/V @ 8'-0" AFF U.O.N.. COORDINATE BLOCKING.
02	OUTDOOR ELECTRICAL BOX COVER, WATERPROOF.



JUNIPER ROAD
STUDIOS

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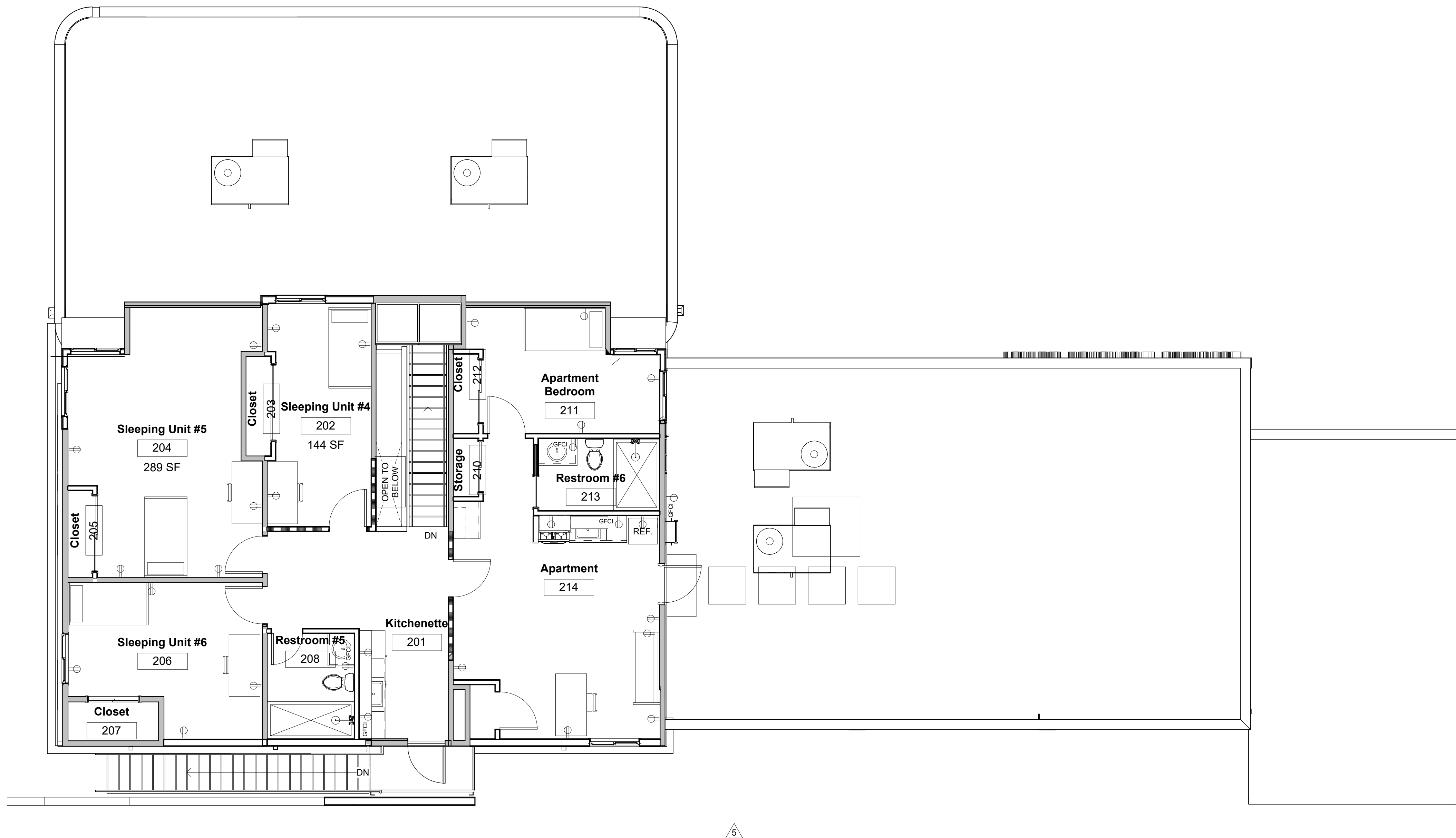
8/01/2022







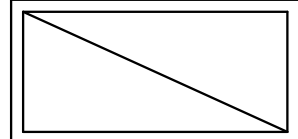
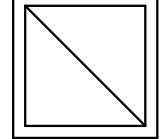





Electrical Plan

5

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Electrical Plan Notes	
Note Number	Note Text
01	WALL MOUNTED CAMERA BY A/V @ 8'-0" AFF U.O.N.. COORDINATE BLOCKING.
02	OUTDOOR ELECTRICAL BOX COVER, WATERPROOF.

[illegible]

LIGHTING LEGEND	
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	WALL MOUNTED LIGHT
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- LIGHTING NOTES
1. HATCHING DENOTES FIXTURE SHALL BE PROVIDED EMERGENCY BATTERY BACKUP
 2. 3000K LIGHTING THROUGHOUT

① Upper Level Electrical
3/16" = 1'-0"



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Lvl 2 Electrical Plan

DRAWN BY JRS	SHEET A03.02
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DATE	REV.
8/01/2022	5

SCALE @ 24"x36"	PROJECT NUMBER
As indicated	21-4840

8/20/2022 3:03:17 PM

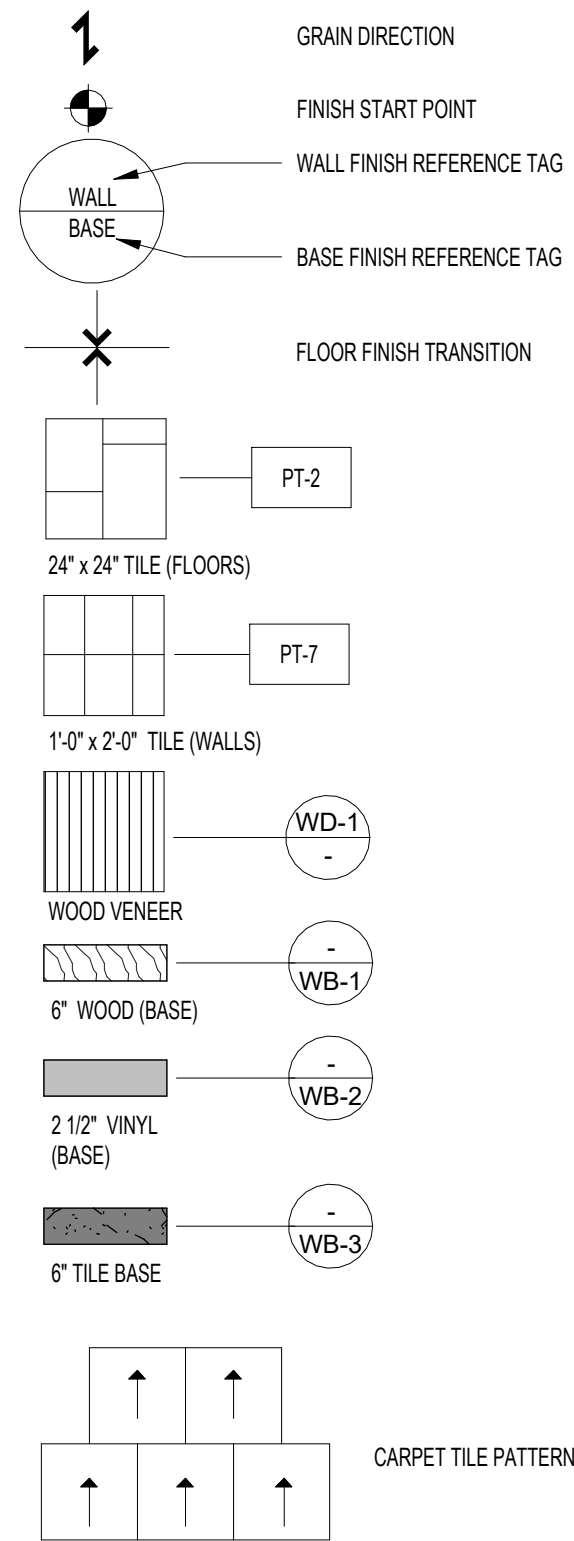
- A. CONTRACTOR TO ADHERE TO INFORMATION SET FORTH IN ARCHITECTURAL SPECIFICATIONS REGARDING FLOOR COVERING AND BASE TYPES.
- B. ALL FLOOR COVERINGS SHALL BE PORCELAIN TILE UNLESS NOTED OTHERWISE.
- C. FOLLOW MANUFACTURER'S RECOMMENDED PROCEDURES FOR INSTALLATION OF PORCELAIN TILE.
- D. AFTER COMPLETION OF FLOORING INSTALLATION, FOLLOW MANUFACTURER'S RECOMMENDED "NEW FLOOR MAINTENANCE" INSTRUCTIONS.
- E. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF ALL TILE FLOOR LAYOUTS FOR ARCHITECT'S APPROVAL PRIOR TO INSTALLATION. SHOP DRAWINGS TO REFLECT ACTUAL FIELD DIMENSIONS.
- F. ALIGN FLOOR TILE EDGE WITH WALL BASE.
- G. CONTRACTOR TO SUBMIT GROUT SAMPLES ALONG WITH TILE SAMPLES FOR ARCHITECT'S REVIEW AND SELECTION. CONTRACTOR TO PROVIDE GROUT MOCK UPS ON SITE FOR ARCHITECT'S APPROVAL.
- H. CONTRACTOR TO SUBMIT SAMPLES OF TRANSITION STRIPS TO ARCHITECT FOR COLOR APPROVAL, PRIOR TO ORDERING MATERIALS.
- I. WHERE DIFFERENT FLOORING MATERIALS MEET, CONTRACTOR TO ADJUST HEIGHTS AS REQUIRED FOR A SMOOTH, EVEN, ADA COMPLIANT TRANSITION.
- J. MITTER EDGES OF TILE @ ALL INTERSECTIONS
- K. POLISH ALL EXPOSED EDGES OF PORCELAIN TILE
- L. ALL WALLS SHALL BE LEVEL 5 FINISH AND PRIMED IN FITNESS, AUDITORIUM & LOBBY/PRE-FUNCTION WALLS WHERE WALLCOVERINGS ARE CALLED FOR.
- BASE
1. PROVIDE BASE PER PLAN. IF FLOOR IS TILE, WALL WILL HAVE TILE BASE. IF FLOOR IS CARPET, BASE WILL BE OTHER.
2. INSTALL SCHEDULED WALL COVERINGS UNDER ALL SOFFITS AND FURR-DOWNS CONTINUOUS TO CEILING, UNLESS NOTED OTHERWISE.

- PAINT
1. CONTRACTOR TO ADHERE TO INFORMATION SET FORTH IN ARCHITECTURAL SPECIFICATIONS REGARDING PAINT AND COATINGS.
2. PAINT ALL WALLS AND EXPOSED GYP BOARD SURFACES P-1, UNLESS NOTED OTHERWISE.
3. PAINT ALL CEILING EDGE ANGLES, DIFFUSERS AND GRILLS TO MATCH ADJACENT CEILING TILE.
4. PAINT ALL FIRE HOSE CABINETS AND FRAMES TO MATCH WALL FINISH ON WHICH THEY ARE PLACED. COORDINATE PAINT TYPE FOR METAL SURFACES.
5. PAINT ALL STROBE BACK PLATES TO MATCH WALL FINISH ON WHICH THEY ARE PLACED.
6. PAINT GYP BOARD CEILINGS, SOFFITS AND FURR-DOWNS TO MATCH ADJACENT WALL, UNLESS NOTED OTHERWISE.
7. PAINT METAL REVEALS P-1, UNLESS NOTED OTHERWISE.
9. CONTRACTOR TO PROVIDE ON-SITE MOCK-UP OF PAINT COLORS FOR APPROVAL PRIOR TO PURCHASING PAINT.

- MISCELLANEOUS
1. CONTRACTOR TO ADHERE TO INFORMATION SET FORTH IN ARCHITECTURAL SPECIFICATIONS.
2. REFER TO FINISH SPECIFICATIONS THIS SHEET FOR COMPLETE DESCRIPTION OF ALL SCHEDULED FINISHES.
3. REFER TO INTERIOR ELEVATIONS, AS NOTED ON ARCHITECTURAL PLANS, FOR ADDITIONAL INFORMATION.
4. ALL INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH EACH MANUFACTURER'S SPECIFICATIONS AND ARCHITECT'S INSTRUCTIONS.

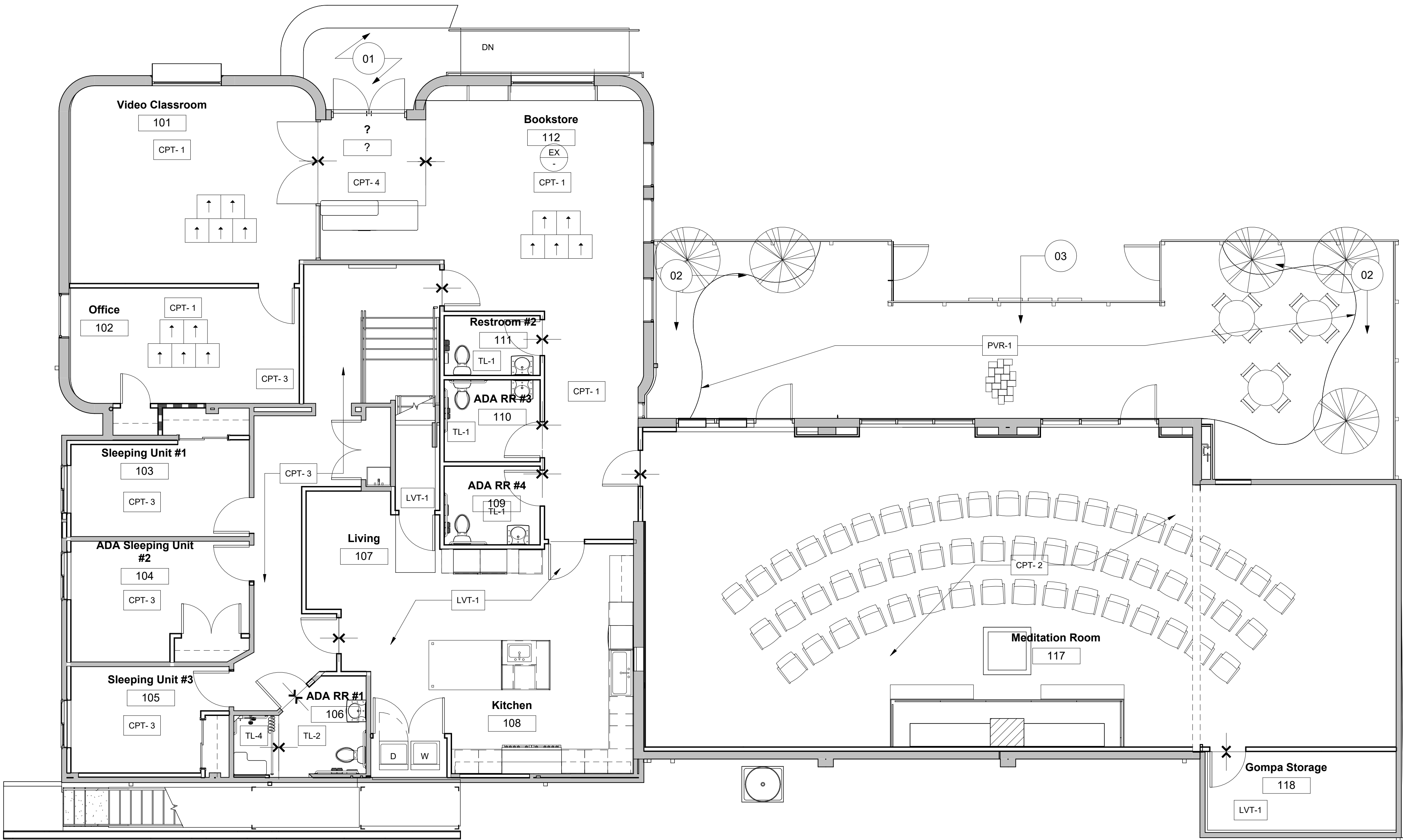
Finish Plan Notes	
Note Number	Note Text
01	PATCH & REPAIR EXISTING CONCRETE FLOOR.
02	NEW GARDEN AREA TO BE COMPLETED BY OWNER. GC TO PREP SOIL
03	PAVER TO BE GRADED AND COMPATED BY GC. PAVER BY OWNER.

2 General Finish Plan Notes
1/4" = 1'-0"



3 Finish Legend
1/4" = 1'-0"

1 Main Level - Finish Plan
3/16" = 1'-0"



JUNIPER ROAD
STUDIOS

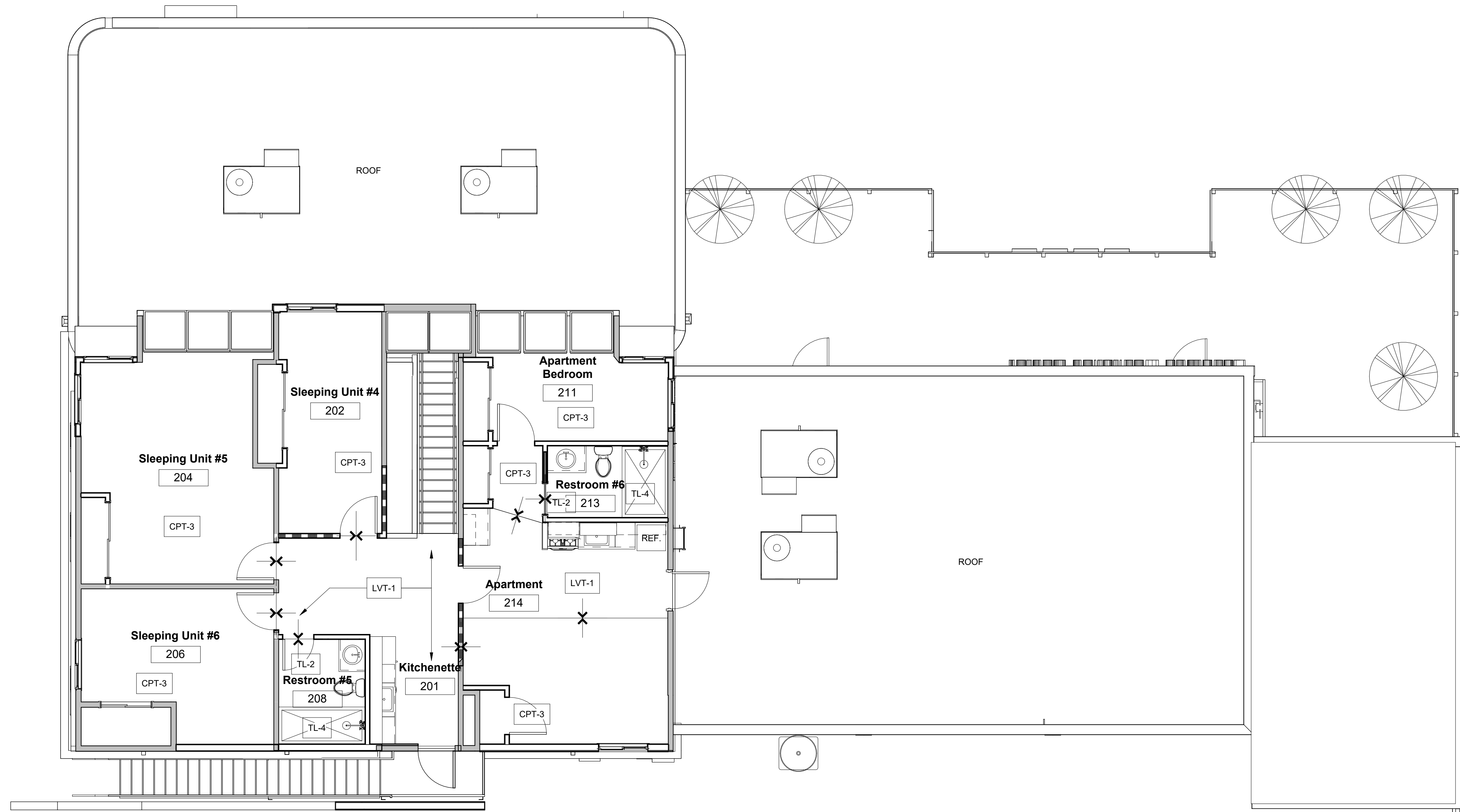
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Finish Floor Plans

DRAWN BY JRS	SHEET A04.01
DATE 8/01/2022	REV. 1
SCALE @ 24"x36" As indicated	PROJECT NUMBER 21-4840



① Upper Level Finish Floor Plan
3/16" = 1'-0"

[illegible]

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Lvl 2 Finish Floor
Plan

DRAWN BY JRS	SHEET A04.02
DATE 8/01/2022	REV. 
SCALE @ 24"x36" 3/16" = 1'-0"	PROJECT NUMBER 21-4840

FINISH SCHEDULE							
TYPE NAME	DESCRIPTION	NAME/ STYLE	FINISH	COLOR	MANUFACTURER / SUPPLIER	LOCATION(S)	CONTACT
BASE-1	RUBBER BASE	TBD	NA	TBD	TBD	ALL PUBLIC LOCATIONS WHERE CPT MEETS GYP WALLS. SEE ELEVATIONS	
BASE-2	BASEBOARD	PRE-PRIMED MDF 3 1/2 " X 5/8"	NA	TBD	TBD	AT ALL RESIDENTIAL AREA WALL/ FLOOR LOCATIONS	
BB-1	BUTCHER BLOCK	1-1/2" x 25" x 8 LFT Unfinished Arcacia Butcher Block Countertop	SITE FINISH WITH ODIE'S OIL	ACACIA	LUMBER LIQUIDATORS	KITCHEN, ALL COUNTERTOPS AND ISLAND, PREP AREA	https://www.liflooring.com/n/willi-amsburg-butcher-block-co-1-1-2-inch-x-25-inch-x-8-1ft-unfinished-acacia-butcher-block-countertop-10049363.html?ogmap=PLA%7CACQ%7CGOOS%7CPLA%7C%7CBUTCHERBLOCK%7C%7C%7Bcampaign_name%7D%7C%7Badgroup%7D7C10049363%7C8739323165%7C85415238662%7C&qclsrc=aw.ds&qclid
BRICK-1	BRICK	TBD- FULL BRICK	NATURAL	CUSTOM BLEND	GENERAL SHALE	EXTERIOR	CONTRACTOR TO PROVIDE SUBMITTAL. ALTERNATES CAN BE SUBMITTED, BUT MUST BE APPROVED BY ARCHITECT. LeeAnn 1845 W. DARTMOUTH AVE. ENGLEWOOD, CO 80110 720-636-5387
BRICK-2	BRICK	TBD- THIN BRICK	NATURAL	CUSTOM BLEND	GENERAL SHALE	INTERIOR GOMPA NORTH AND SOUTH WALLS	CONTRACTOR TO PROVIDE SUBMITTAL. ALTERNATES CAN BE SUBMITTED, BUT MUST BE APPROVED BY ARCHITECT. LeeAnn 1845 W. DARTMOUTH AVE. ENGLEWOOD, CO 80110 720-636-5387
CPT-1	CARPET TILE	10577-GLACIAL ICE		00730 HAZE	PATCRAFT/ TOTAL FLOORS	BOOKSTORE, VIDEO CLASSROOM AND OFFICE	CONTRACTOR TO PROVIDE SUBMITTAL Amber Dozier 640 W Tennessee Ave Denver, Co 80223 Cell - 303-883-2994 Office- 303-722-4935 Email- Amber@totalfloors.biz
CPT-2	BROADLOOM CARPET- 100% NYLON	2597 HEARTS CONTENT		21286 PORTICO	DIXIE HOME/ TOTAL FLOORS	MEDITATION ROOM, AV ROOM, TEACHER PREP	CONTRACTOR TO PROVIDE SUBMITTAL Amber Dozier 640 W Tennessee Ave Denver, Co 80223 Cell - 303-883-2994 Office- 303-722-4935 Email- Amber@totalfloors.biz
CPT-3	BROADLOOM CARPET- ENVISION 66 NYLON	25112 FRILL		25112 FRILL	DIXIE HOME/ TOTAL FLOORS	ALL RESIDENTIAL SLEEPING UNITS, PRIVATE APARTMENT, HALLWAY AND STAIRS TO RESIDENTIAL UNIT.	CONTRACTOR TO PROVIDE SUBMITTAL Amber Dozier 640 W Tennessee Ave Denver, Co 80223 Cell - 303-883-2994 Office- 303-722-4935 Email- Amber@totalfloors.biz
CPT-4	WALK OFF MAT	FIRST STEP II GT315/QL315		983 IRON ORE	MOHAWK GROUP	LOBBY ENTRY	CONTRACTOR TO PROVIDE SUBMITTAL Amber Dozier 640 W Tennessee Ave Denver, Co 80223 Cell - 303-883-2994 Office- 303-722-4935 Email- Amber@totalfloors.biz
CT-1	SUSPENDED ACOUSTICAL CEILING SYSTEM	TECHSTYLE	POLYESTER NON WOVEN	HARDROCK MAPLE	CERTAINTED	MEDITATION CEILING	CONTRACTOR TO PROVIDE SUBMITTAL Charlie Mau C: 847.997.6226 E: charlie@mauinc.com
LVT-1	LAMINATE FLOOR	VV017	NA	01011 CHANDLER OAK	COREtec	KITCHEN, SECOND FLOOR LANDING, PRIVATE APARTMENT	CONTRACTOR TO PROVIDE SUBMITTAL
LAM- 1	MILLWORK	TEXTURED LINEAR		BEIGE HEARTWOOD	CABINETS.COM	KITCHEN, PREP KITCHEN	CABINETS.COM SLAB DOOR, TEXTURED LINEAR BEIGE HEARTWOOD IS THE BASIS OF DESIGN. ALTERNATES CAN BE SUBMITTED, BUT MUST BE APPROVED BY DESIGNER.
LAM- 2	MILLWORK	TEXTURED LINEAR		CHESTNUT HEARTWOOD	CABINETS.COM	PRIVATE RESTROOMS	CABINETS.COM SLAB DOOR, TEXTURED LINEAR CHESTNUT HEARTWOOD IS THE BASIS OF DESIGN. ALTERNATES CAN BE SUBMITTED, BUT MUST BE APPROVED BY DESIGNER.
MTL-1	BUILDING WALL PANELS	EM15-1266 CF WALL	NA	MATTE BLACK	METAL SALES MFG. CORP.	EXTERIOR WALLS AT MEDITATION SPACE, SEE ELEVATIONS	CONTRACTOR TO PROVIDE SUBMITTAL 800-289-7663
MTL-2	BUILDING WALL PANELS	BELLARA STEEL SIDING	NA	WARM ROSEWOOD	VICWEST	EXTERIOR WALLS 2ND FLOOR, SEE ELEVATIONS	CONTRACTOR TO PROVIDE SUBMITTAL WWW.VICWEST.COM/BELLARA
P-1	GENERAL WALL COLOR	PROMAR 200 ZERO VOC PAINT	SATIN	SW 9109 NATURAL LINEN	SHERWIN WILLIAMS	ALL GYP WALLS, EXISTING AND NEW, UNO	CONTRACTOR TO PROVIDE SUBMITTAL QTY 3 DRAW DOWN SAMPLES
P-2	CEILING PAINT	PROMAR 200 ZERO VOC PAINT	FLAT	SW 7006 EXTRA WHITE	SHERWIN WILLIAMS	WALL FINISH, TBD	CONTRACTOR TO PROVIDE SUBMITTAL QTY 3 DRAW DOWN SAMPLES
P-3	DOOR, TRIM, MILLWORK PAINT	EMERALD ENAMEL	SEMI- GLOSS	SW 7006 EXTRA WHITE	SHERWIN WILLIAMS	DOORS AND TRIM THROUGHOUT AS SCHEDULED	CONTRACTOR TO PROVIDE SUBMITTAL QTY 3 DRAW DOWN SAMPLES
P-4	ACCENT WALL PAINT	PROMAR 200 ZERO VOC PAINT	SATIN	TBD	SHERWIN WILLIAMS	WALL FINISH, TBD	CONTRACTOR TO PROVIDE SUBMITTAL QTY 3 DRAW DOWN SAMPLES
P-5	ACCENT WALL PAINT	PROMAR 200 ZERO VOC PAINT	SATIN	TBD	SHERWIN WILLIAMS	WALL FINISH, TBD	CONTRACTOR TO PROVIDE SUBMITTAL QTY 3 DRAW DOWN SAMPLES
P-6	EXTERIOR SIDING PAINT	A-100 EXTERIOR LATEX PAINT	SATIN	TBD	SHERWIN WILLIAMS	EXTERIOR EXISTING SIDING. TO BE PAINTED TO MATCH NEW METAL	CONTRACTOR TO PROVIDE SUBMITTAL QTY 3 DRAW DOWN SAMPLES
P-7	EXTERIOR TRIM/ DOOR PAINT	A-100 EXTERIOR LATEX PAINT	SEMI- GLOSS	TBD	SHERWIN WILLIAMS	TRIM FINISH- TBD	CONTRACTOR TO PROVIDE SUBMITTAL QTY 3 DRAW DOWN SAMPLES
PVR-1	CONCRETE PAVER	VENETIAN REC CONCRETE PAVER	TEXTURED	ROCKY MOUNTAIN BLEND	PAVESTONE	MEDITATION GARDEN	OWNER PROVIDED
SS-1	COUNTERTOPS	SOLID SURFACE SLAB COUNTERTOPS	POLISHED	MARRON	HANEX	PUBLIC RESTROOM COUNTERTOPS	CONTRACTOR TO PROVIDE SUBMITTAL
SS-2	COUNTERTOPS	SOLID SURFACE SLAB COUNTERTOPS	POLISHED	SORREL	CORIAN	KITCHEN, PREP AREA	CONTRACTOR TO PROVIDE SUBMITTAL
SS-3	COUNTERTOPS	SOLID SURFACE SLAB COUNTERTOPS	POLISHED	NEUTRAL CONCRETE	CORIAN	PRIVATE BATHROOM COUNTERTOPS	CONTRACTOR TO PROVIDE SUBMITTAL
TL-1	HEX TILES	ADESSI HEXAGON 10" X 11" PORCELAIN MOSAIC	MATTE	UPTOWN ANTRACITE	FLOOR & DÉCOR	PUBLIC RESTROOM FLOORS	CONTRACTOR TO PROVIDE SUBMITTAL
T-2	12" X 24" TILE	ADESSI MATTE PORCELAIN TILE	MATE	SUNDANCE II	FLOOR & DÉCOR	PRIVATE RESTROOM FLOORS, PRIVATE RESTROOM SHOWER WALLS	CONTRACTOR TO PROVIDE SUBMITTAL
T-3	6" x 24" WOOD LOOK TILE	MANSFIELD PORCELAIN WOOD LOOK PLANK TILE	MATTE	AMBER III	FLOOR & DÉCOR	PUBLIC RESTROOM WALLS	CONTRACTOR TO PROVIDE SUBMITTAL
T-4	HEX TILES	ADESSI HEXAGON PORCELAIN MOSAIC	MATTE	SUNDANCE II	FLOOR & DÉCOR	PRIVATE RESTROOM SHOWER FLOORS	CONTRACTOR TO PROVIDE SUBMITTAL
T-5	CUT RIVER ROCK ON MESH	PEBBLINO FLAX MIXED HONED PEBBLE MOSAIC	HONED	VARIES	FLOOR & DÉCOR	PRIVATE SHOWER ACCENT TILE	CONTRACTOR TO PROVIDE SUBMITTAL
T-6	SUBWAY TILE	POTTERY COSMIC 2"x6" TILE	MATTE	GRAPHITE	WOW/ NATURAL STONE SOURCE	KITCHEN BACKSPLASH- BEHIND RANGE	CONTRACTOR TO PROVIDE SUBMITTAL- INSTALL PATTERN: SOLDIER STACK. SEE ELEVATIONS DEREK derek@naturalstonesales.us 900 W MISSISSIPPI DENVER, CO 80223
T-7	SUBWAY TILE	POTTERY 2" X 6" TILE	MATTE	NATURAL	WOW/ NATURAL STONE SOURCE	KITCHEN BACKSPLASH FIELD TILE, PREP AREA BACKSPLASH	CONTRACTOR TO PROVIDE SUBMITTAL INSTALL PATTERN: SOLDIER STACK. SEE ELEVATIONS DEREK derek@naturalstonesales.us 900 W MISSISSIPPI DENVER, CO 80223
TRIM-1	TRIM	PRE- PRIMED MDF		TBD	TBD	INTERIOR DOOR AND WINDOW TRIM- AS CALLED OUT IN ELEVATIONS	
WD-1	VERTICAL PANEL SIDING	SIERRA 8	PRIMED	PRIMED	JAMES HARDIE	EXTERIOR WALLS	PAINTED TO MATCH NEW METAL PANELS PROVIDE MATCHING TRIM AS REQ'D ON SITE CONDITIONS
WD-2	MILLWORK	SPECIES TBD		STAIN TBD	TBD- NOT IN GC SCOPE	MEDITATION ROOM SHRINE- CUSTOM BASE	CUSTOM BASE FOR SHRINE TO BE BUILT BY OTHERS, COORDINATED BY OWNER AND ARCHITECT
WD-3	LAP SIDING	RUSTIC SERIES	PRIMED	SUMMER WHEAT	WOODTONE	FRONT UPPER LEVEL	PROVIDE MATCHING TRIM AS REQ'D ON SITE CONDITIONS

06.22.22



DATE	6/29/22
DESCRIPTION	
NO.	5
City Comments	



KADAMPA
MEDITATION CENTER

4840 W 29th Ave
Denver, CO 80212

Building Renovation


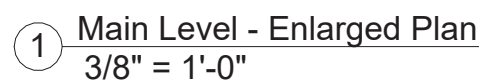
PROFESSIONAL SEAL

8/01/2022

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JUNIPER ROAD STUDIOS LLC.
OF ANY
DIMENSIONAL ERRORS, OMISSIONS,
OR DISCREPANCIES BEFORE
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ANY WORK.

Finish Schedule

DRAWN BY JRS	SHEET A04.03
DATE 8/01/2022	REV. 5
SCALE @ 24"x36"	PROJECT NUMBER 21-4840



JUNIPER ROAD

STUDIOS

PROFESSIONAL SEAL

STATE OF COLORADO

ROBERT J. MARKLEY

405825

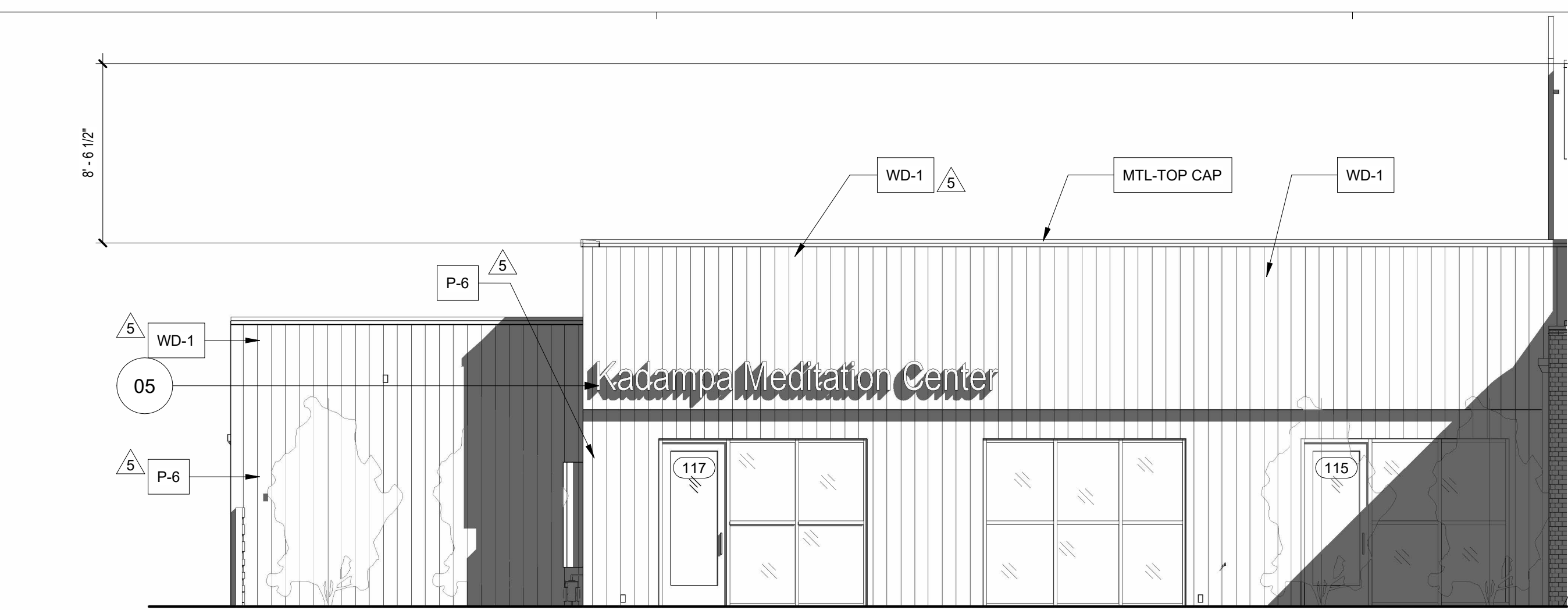
LICENSED ARCHITECT

6/29/2022

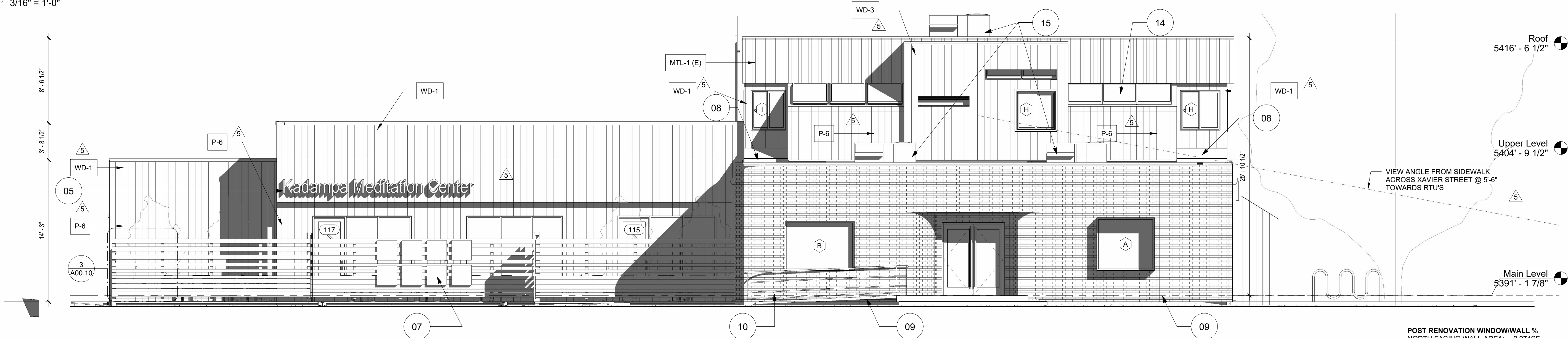
Enlarged Plans

6/29/2022 1:40:53 PM

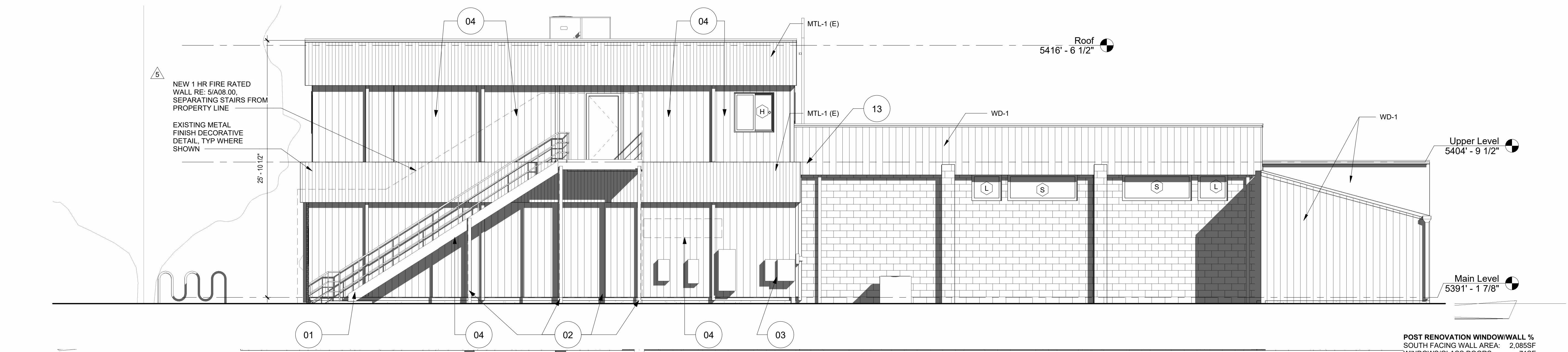
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North / Front - W 29th Ave Elevation Beyond the Garden Wall
3/16" = 1'-0"



North / Front - W 29th Ave Elevation
3/16" = 1'-0"



South - Rear Elevation
3/16" = 1'-0"

A. FULL EXTENT OF EXTERIOR TO BE PAINTED, COLOR TBD, EXCEPT BRICK AND NEW WOOD LOOK METAL PANELS, U.O.N.

General Exterior Elevation Notes
3/4" = 1'-0"

DENVER TRANSPARENCY CALCS		
PRIMARY STREET BUILDING FACADE (7'x112')		
EXISTING PRIMARY STREET WINDOWS (2) 27"x39", 72"x84", 70"x64"	784sf	
EXISTING TRANSPARENCY PRIMARY STREET (%)	88sf	
PROPOSED PRIMARY STREET WINDOWS (3) 10'x7', 7'x5', 6'x7', 70"x64"	318sf	11%
PROPOSED TRANSPARENCY PRIMARY STREET (%)	41%	
SIDE STREET BUILDING FACADE		
EXISTING SIDE STREET WINDOWS (45'x42", 16'x36" (2))	421sf	
EXISTING TRANSPARENCY PRIMARY STREET (%)	21sf	5%
PROPOSED SIDE STREET WINDOWS (45'x42", 4' X 4' (3))	61sf	
PROPOSED TRANSPARENCY PRIMARY STREET (%)	15%	

Exterior Elevation Notes

Note Number	Note Text
01	EXISTING STAIRS TO REMAIN.
02	EXISTING STRUCTURE TO REMAIN
03	EXISTING POWER PANEL COORD. W/ MEP
04	WHERE WINDOWS REMOVED INFILL WALL TO MATCH EXISTING CONSTRUCTION. RE: FINISH SCHEDULE
05	BUILDING NAME SIGN BY OTHERS UNDER SEPERATE PERMIT (GC TO PROVIDE POWER/JBOX).
06	WOODEN FIXED LOUVERS
07	EIGHT KADAMPA AUSPICIOUS SYMBOLS BY OWNER. GC TO COORDINATE WALL OPENINGS w/ SYMBOL SIZES.
08	NEW SLOPED ROOF
09	NEW TREE TYP. @35'
10	EXISTING RAIL TO REMAIN.
12	EXISTING BRICK WALL
13	DOWNSPOUT AND SCUPPER THROUGH 4' - 0" PARAPET WALL FOR ROOF DRAINAGE, TYP. WHERE SHOWN. DRAIN TO YARD OR PUBLIC WAY. NO DRAINAGE TO ADJACENT PROPERTY ALLOWED.
14	EXISTING TO REMAIN. REPLACE AS REQUIRED WHERE DAMAGED OR LEAKING EVIDENCED, TYP. OF 10
15	NEW RTU UNITS. SCREENING PER PARAPET WALLS. SEE A06.01 SIDE ELEVATION FOR VIEWPOINT ANGLE FROM OPPOSITE SIDE OF STREET

DATE	DESCRIPTION	NO.
4/08/22	Client Revisions	1
6/29/22	City Comments	5

JUNIPER ROAD STUDIOS

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Denver, CO 80212
Building Renovation

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8/01/2022
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Building Elevations

DRAWN BY JRS	SHEET A06.00
DATE 8/01/2022	REV. 5
SCALE @ 24"x36" As indicated	PROJECT NUMBER 21-4840

8/20/2022 2:03:39 PM

SEE A06.00 FOR
TRANSPARENCY CALCS.




JUNIPER ROAD

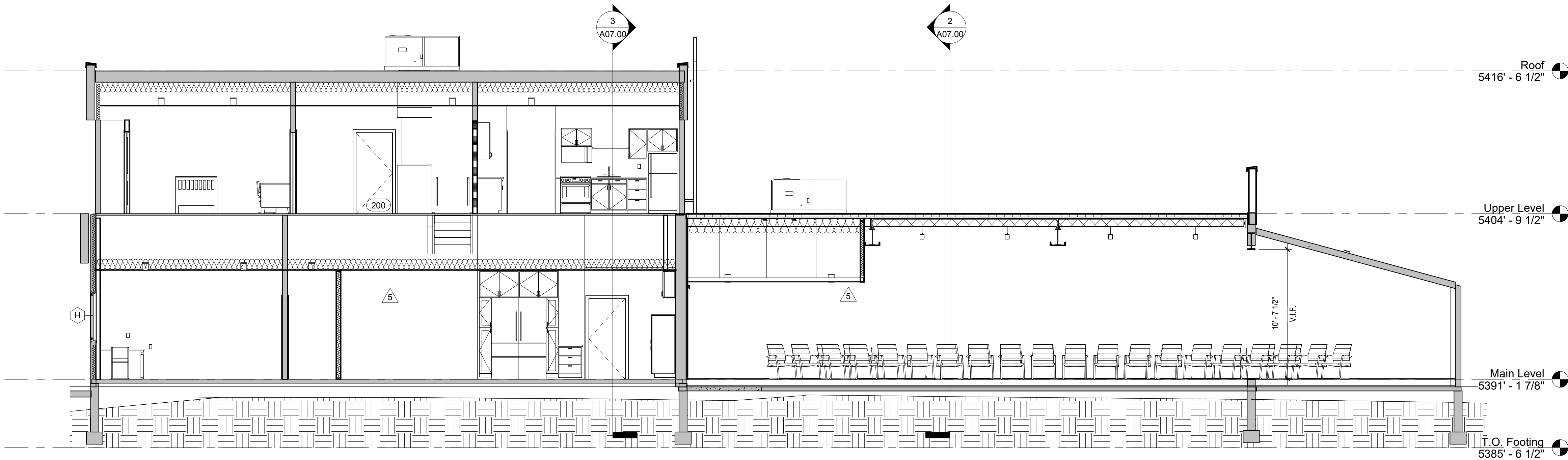
STUDIOS

PROFESSIONAL SEAL

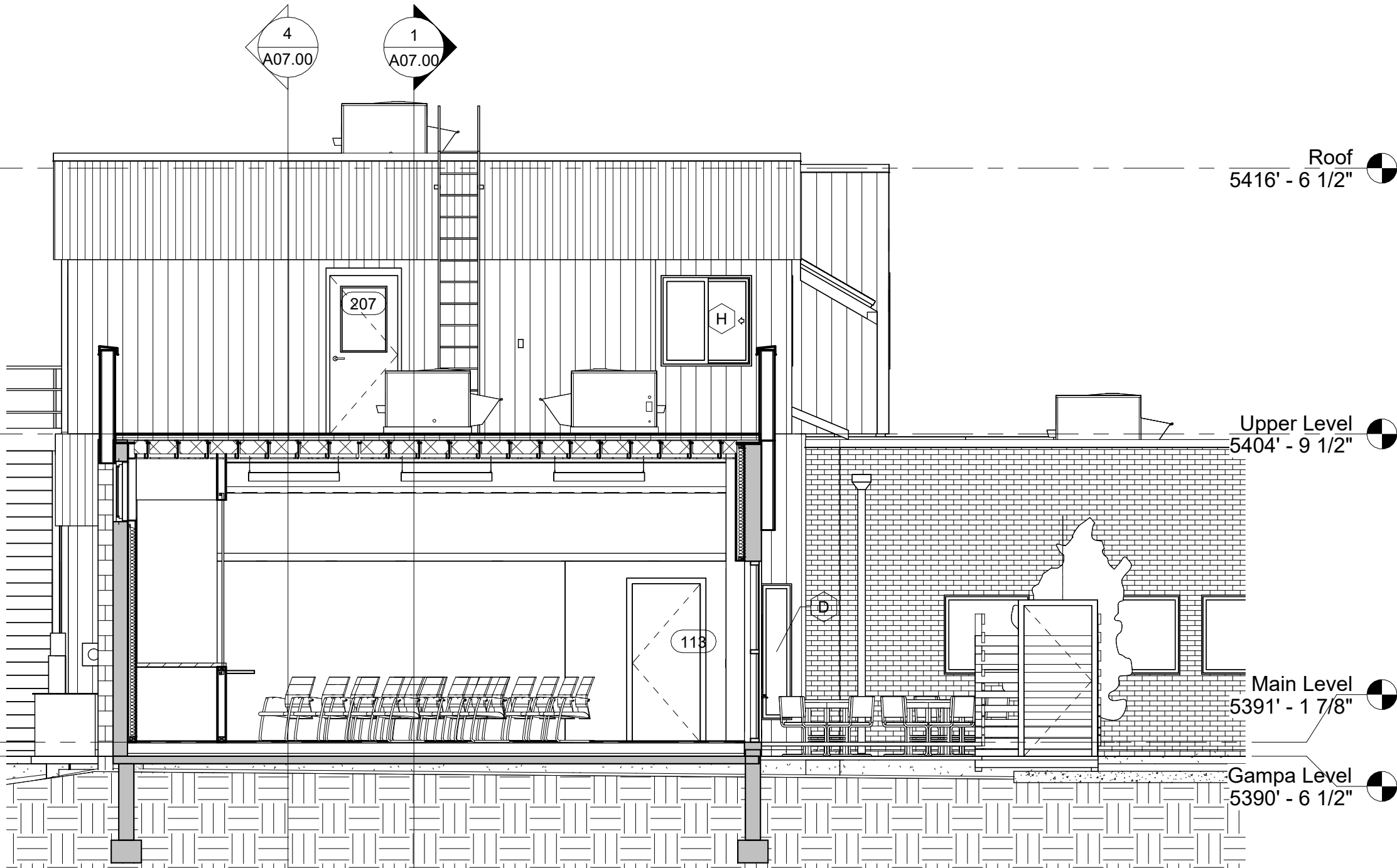
Building Elevations

DRAWN BY JRS	SHEET A06.01
DATE 8/01/2022	REV. 
SCALE @ 24"x36" 3/16" = 1'-0"	PROJECT NUMBER 21-4840

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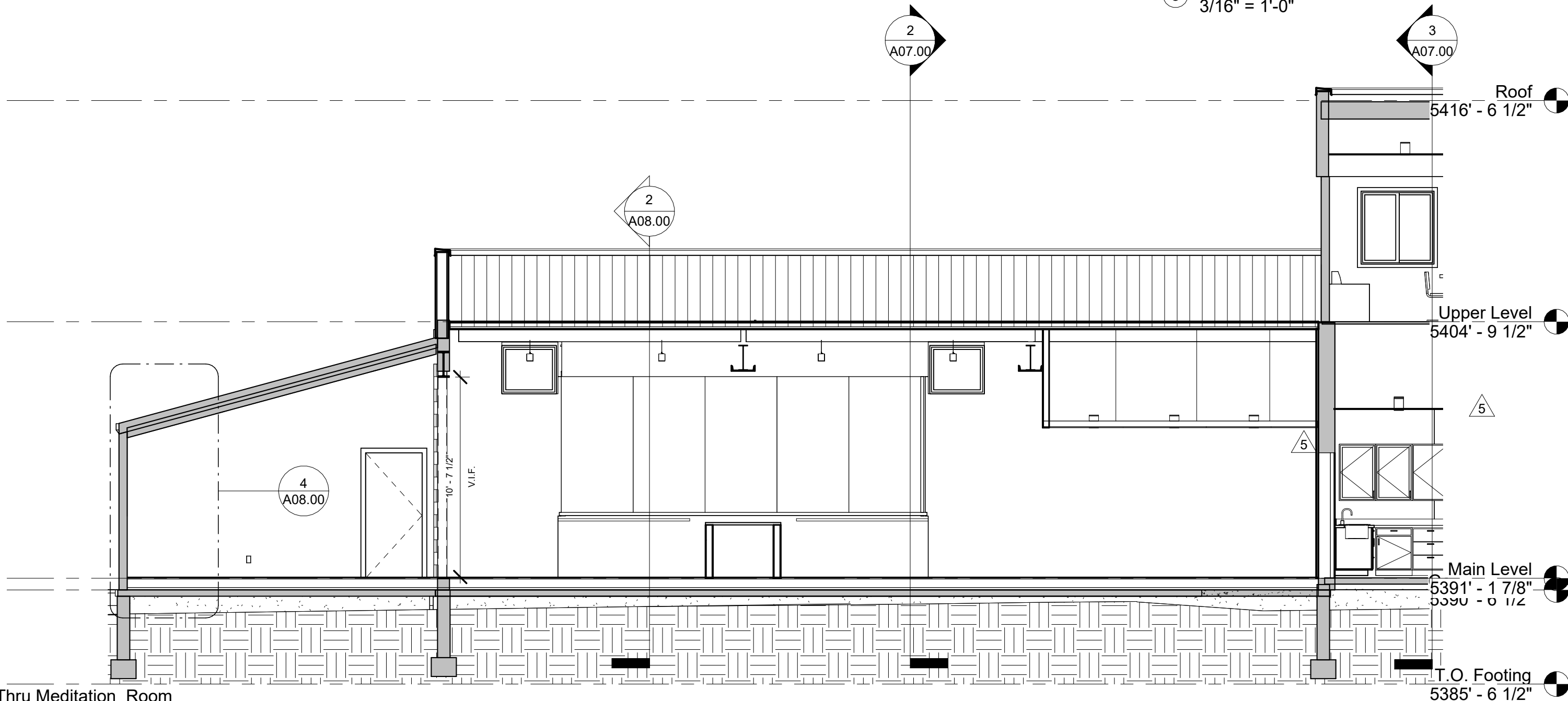
1 West - East Building Section
3/16" = 1'-0"



2 Section S-N - Meditation - Garden - Parking
3/16" = 1'-0"

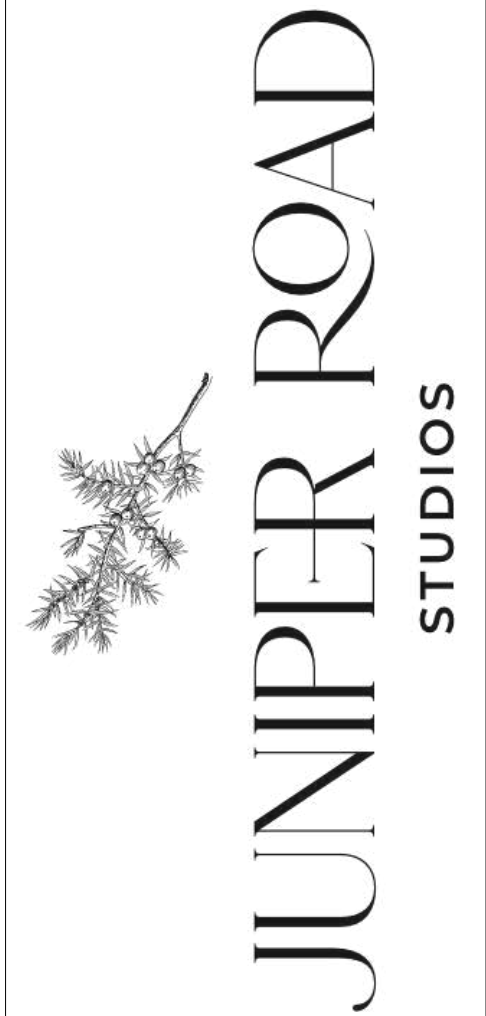


3 Section N-S Business - Residential
3/16" = 1'-0"



4 Section E-W Thru Meditation Room
3/16" = 1'-0"

DATE		DESCRIPTION	
4/08/22	1	Client Revisions	
6/29/22	5	City Comments	



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Building Sections

DRAWN BY
JRS

SHEET
A07.00

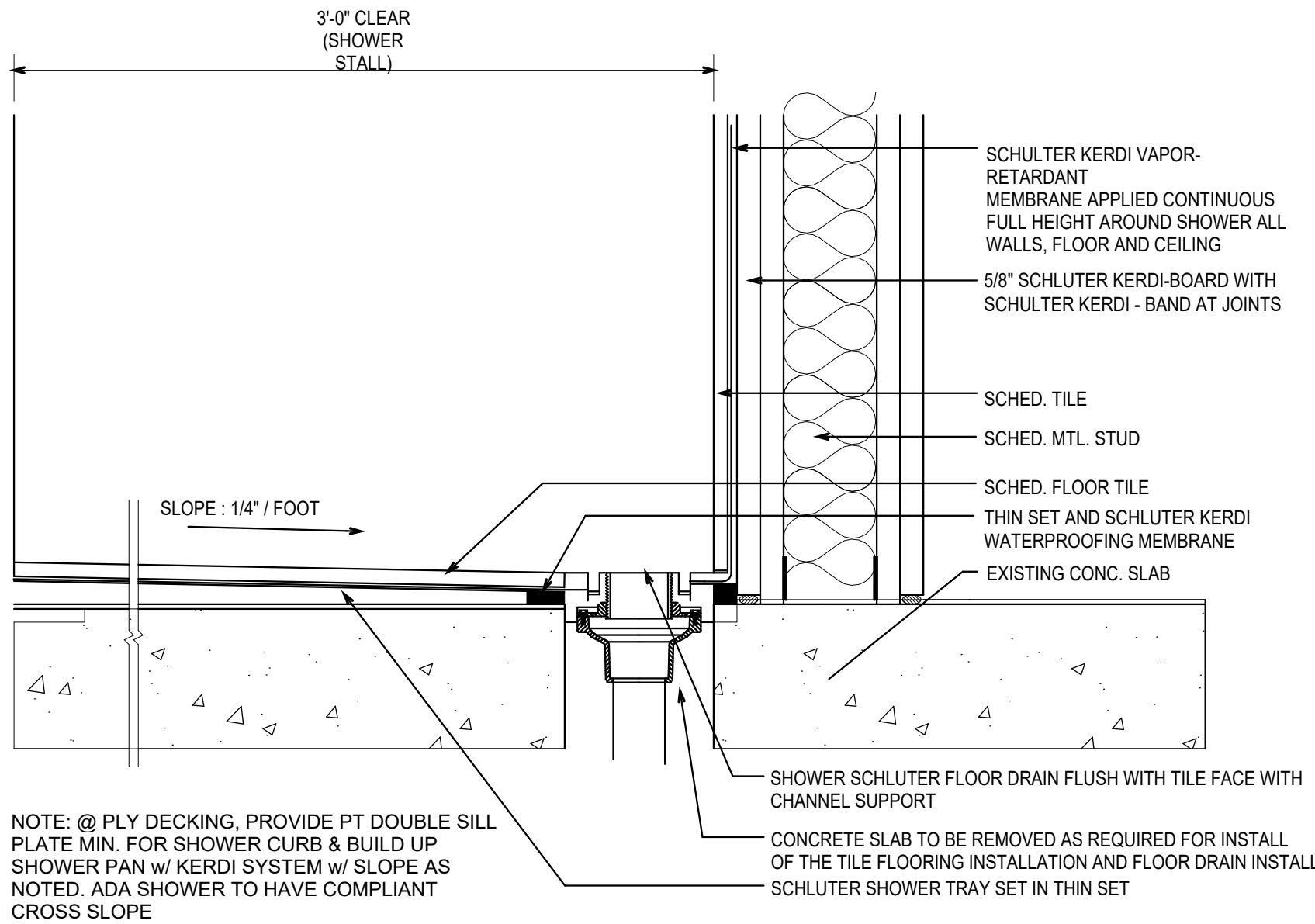
DATE
8/01/2022

REV.
5

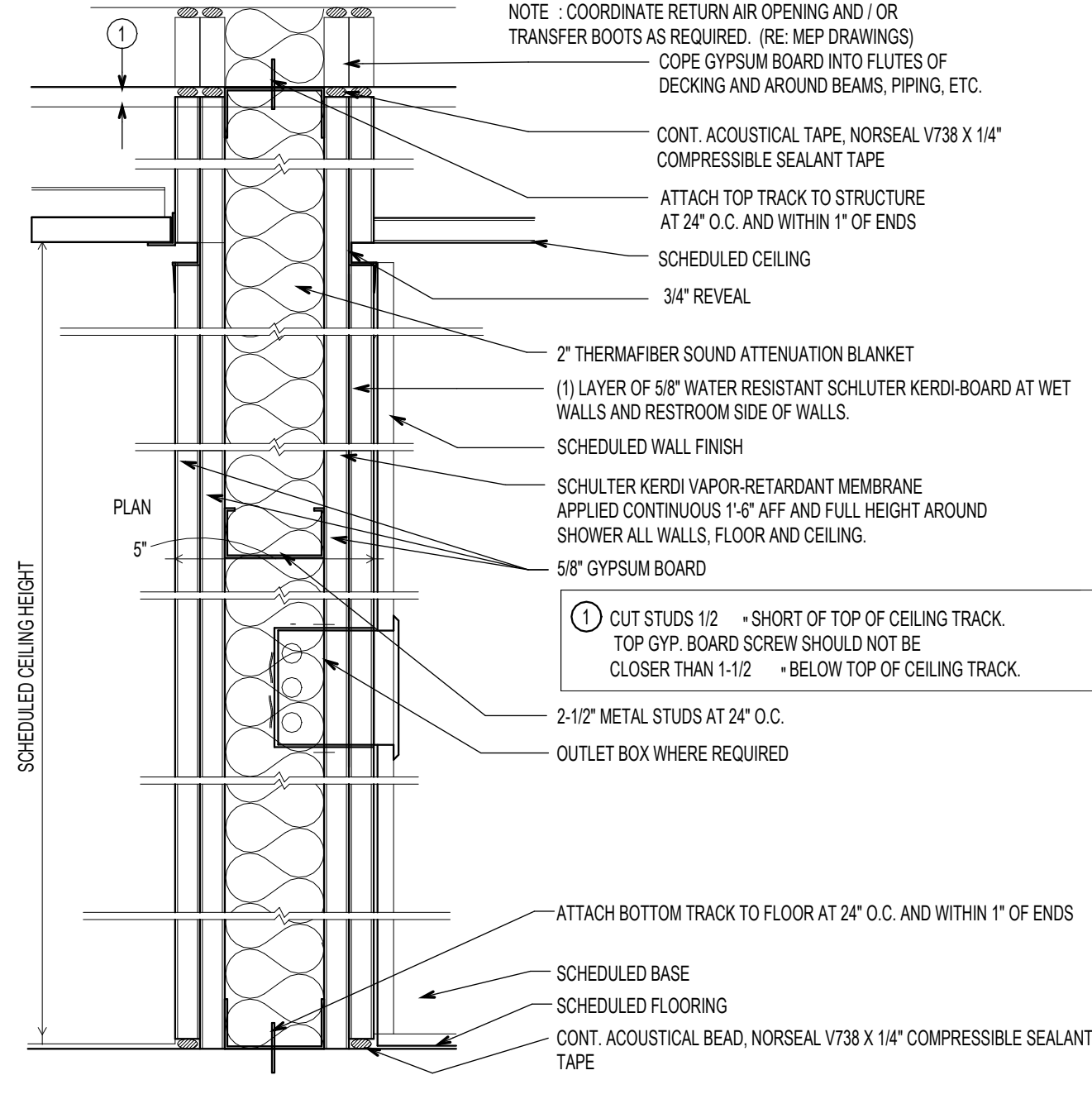
SCALE @ 24"x36"
3/16" = 1'-0"

PROJECT NUMBER
21-4840

8/20/2022 3:03:57 PM



7 TYP. SHOWER FLOOR DRAIN DETAIL
3" = 1'-0"



6 TYP. SHOWER WALL DETAIL
3" = 1'-0"

DESCRIPTION OF FINISH	TIME ^{a,b,c,d} (minutes)
3/8-inch wood structural panel bonded with exterior glue	5
19/32-inch wood structural panel bonded with exterior glue	10
19/32-inch wood structural panel bonded with exterior glue	15
3/8-inch gypsum wallboard	10
3/8-inch gypsum wallboard	15
3/8-inch gypsum wallboard	30
3/8-inch Type X gypsum wallboard	25
3/8-inch Type X gypsum wallboard	40
Double 3/8-inch gypsum wallboard	25
3/8-inch + 3/8-inch gypsum wallboard	35
Double 3/8-inch gypsum wallboard	40

For St: 1 inch = 25.4 mm.

a. These values apply only where membranes are installed on framing members that are spaced 16 inches o.c. or less.

b. Gypsum wallboard installed over framing or furring shall be installed so that all edges are supported, except 3/8-inch Type X gypsum wallboard shall be permitted to be installed horizontally with the horizontal joints staggered 24 inches each side and unsupported but finished.

c. On wood frame floor/ceiling or roof/ceiling assemblies, gypsum board shall be installed with the long dimension perpendicular to framing members and shall have all joints finished.

d. The membrane on the unsupported side shall not be included in determining the fire resistance of the assembly. Where disclaimer membranes are used on a wall assembly, the calculation shall be made from the least fire-resistant (weaker) side.

e. The time assigned is not a finished rating.

DESCRIPTION	TIME ASSIGNED TO FRAME (minutes)
Wood studs 16 inches o.c.	20
Wood floor and roof joists 16 inches o.c.	10

For St: For St: 1 inch = 25.4 mm.

a. This table does not apply to studs or joists spaced more than 16 inches o.c.

b. All studs shall be nominal 2 x 4 and all joists shall have a nominal thickness of not less than 2 inches.

c. Allowable spans for joists shall be determined in accordance with Sections 2308.4.2.1, 2308.7.1 and 2308.7.2.

CALCULATED FIRE RESISTANCE OF 1/2 HR. FIRE PARTITION WALLS PER 722.6

1/2" GYPSUM BOARD 15
1/2" GYPSUM BOARD 15
2X4 FRAMING @ 16" O.C. 20
TOTAL @ SLEEPING UNITS = 50 MINS.

PAIRED WITH SPRINKLER SYSTEM IN ACCORDANCE w/ SECT. 903.3.1.1, FOR SEPARATION OF SLEEPING UNITS AND DWELLING UNITS, 30 MINS REQUIRED w/ WALLS SECURELY ATTACHED TO BOTTOM OF FIRE RESISTANCE RATED FLOOR ASSEMBLY OR DECK ABOVE. (WALLS REQUIRED TO HAVE DOUBLE TOP PLATE.) PROVIDE FIREBLOCKING OR DRAFTSTOPPING IN ACCORDANCE WITH SECT. 718.2 AND 718.3.

CALCULATED FIRE RESISTANCE OF 1/2 HR. FIRE HORIZONTAL ASSEMBLIES PER 711.2.4.3 BETWEEN DWELLING UNITS AND SLEEPING UNITS

19/32" WOOD STRUCT. PANELBONDED w/ EXTERIOR GLUE 15
TRUSSES (MIN 10" DEPTH) @ 16" O.C. BRIDGING/STRONGBACK 15
1/2" GYPSUM BOARD 15
ADDED 5/8" TYPE "X" GYP. BD. REMOVED TOTAL @ SLEEPING UNITS = 30 MINS.

PAIRED WITH SPRINKLER SYSTEM IN ACCORDANCE w/ SECT. 903.3.1.1, FOR SEPARATION OF SLEEPING UNITS AND DWELLING UNITS, 30 MINS REQUIRED w/ WALLS CONSTRUCTED TO BOTTOM OF FIRE RESISTANCE RATED FLOOR ASSEMBLY

11 IBC TIME ASSIGNED WALL & CEILING MEMBRANE FIRE RATING
12" = 1'-0"

UL DESIGN NO. U305 - WOOD CONSTRUCTION

FIRE RATING: 1 Hour
SYSTEM THICKNESS: 4 7/8"

ASSEMBLY OPTIONS:

GYPSUM BOARD: ONE LAYER 5/8" THICK DENSGLASS SHEATHING (TYPE X) ovr/ WATERPROOFING BARRIER

WOOD STUDS: 2X4 NOMINAL, SPACED 16" O.C.

INSULATION: 3-1/2" THICK HI-DENSITY GLASS FIBER BATT INSULATION

GYPSUM BOARD: ONE LAYER 5/8" THICK GYPSUM BOARD (UL TYPE ULIX™)

UL DESIGN NO. U465 - METAL STUDS

FIRE RATING: 1 Hour
SYSTEM THICKNESS: 4 7/8"
EXTERIOR

GYPSUM BOARD: ONE LAYER 5/8" THICK DENSGLASS SHEATHING (TYPE X) ovr/ WATERPROOFING BARRIER

STEEL STUDS: 3-5/8" STEEL STUDS, EQ25 (0.019"), SPACED 24" O.C.

INSULATION: 3-1/2" THICK HI-DENSITY GLASS FIBER BATT INSULATION

GYPSUM BOARD: ONE LAYER 5/8" THICK GYPSUM BOARD (UL TYPE ULIX™)

NOTES:

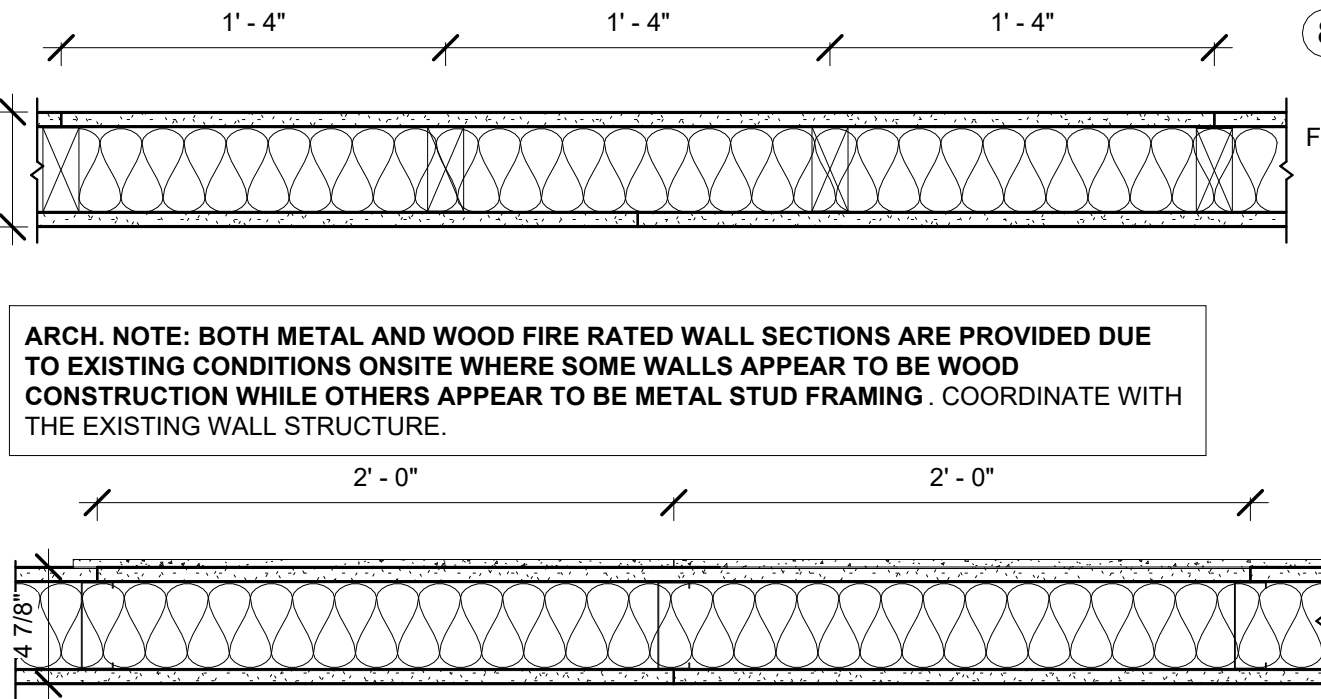
STUD AND INSULATION SIZES ARE MINIMUM UNLESS OTHERWISE STATED IN DESIGN.

FOR THE MOST UP-TO-DATE INFORMATION OR ASSEMBLY OPTIONS, REFER TO THE UL FIRE RESISTANCE DIRECTORY.

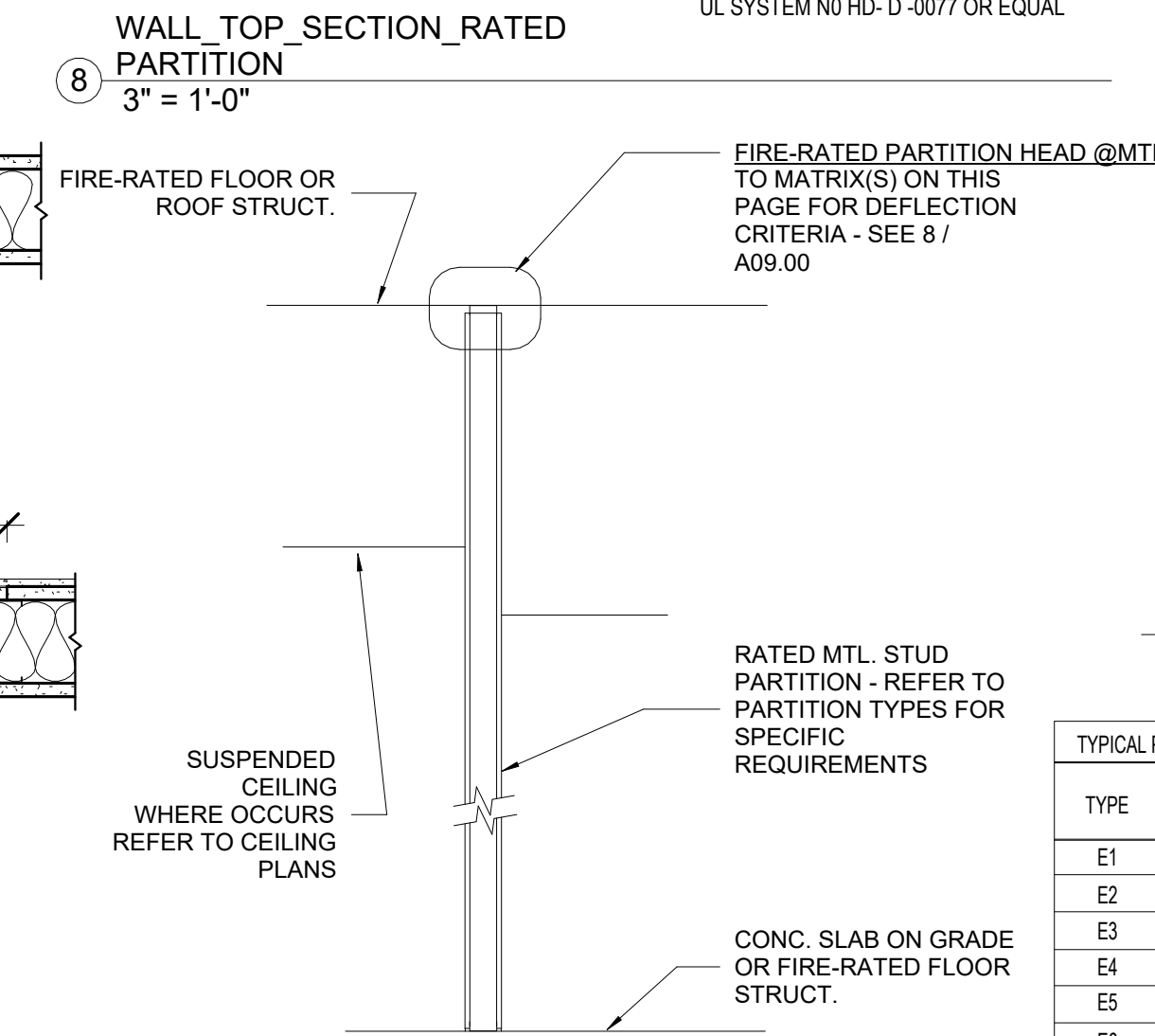
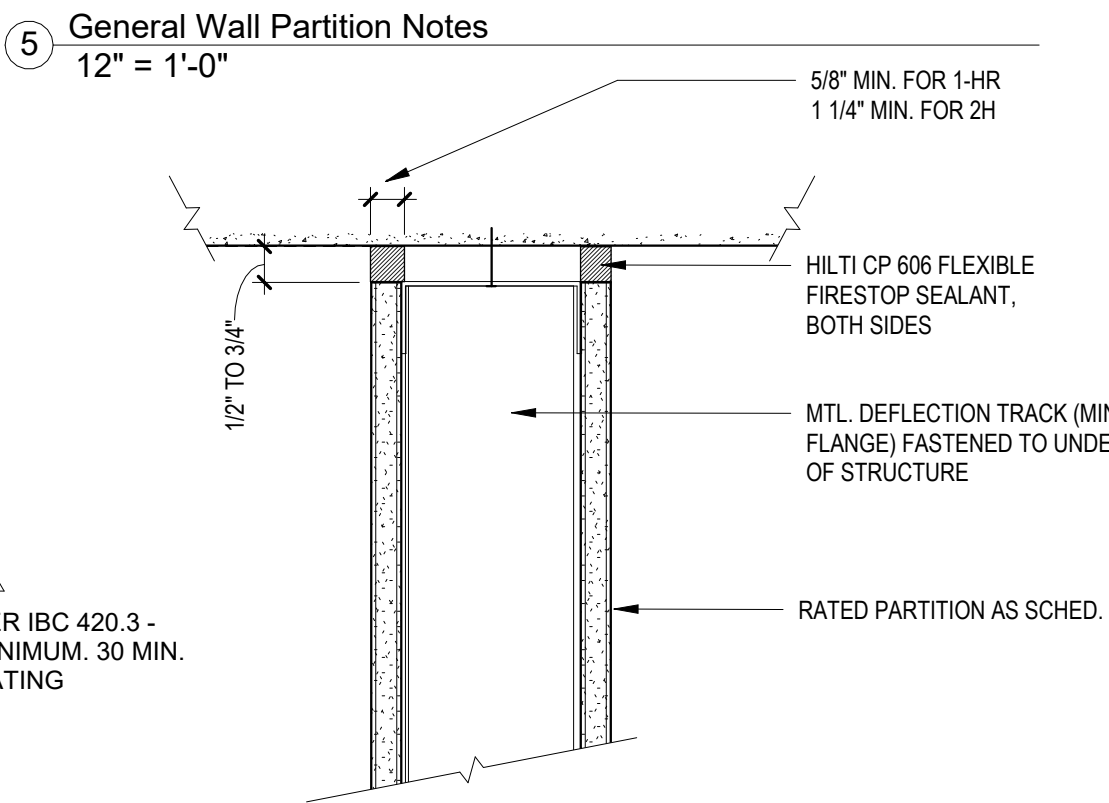
UL TYPE ULIX™ REQUIRES THE USE OF INSULATION FOR SINGLE-LAYER, STEEL-FRAMED UL FIRE-RATED ASSEMBLIES.

REFER TO THE UL FIRE RESISTANCE DIRECTORY FOR INFORMATION REGARDING PRODUCT ORIENTATION AND FASTENING REQUIREMENTS.

10 ONE HOUR EXTERIOR WALLS
1 1/2" = 1'-0"



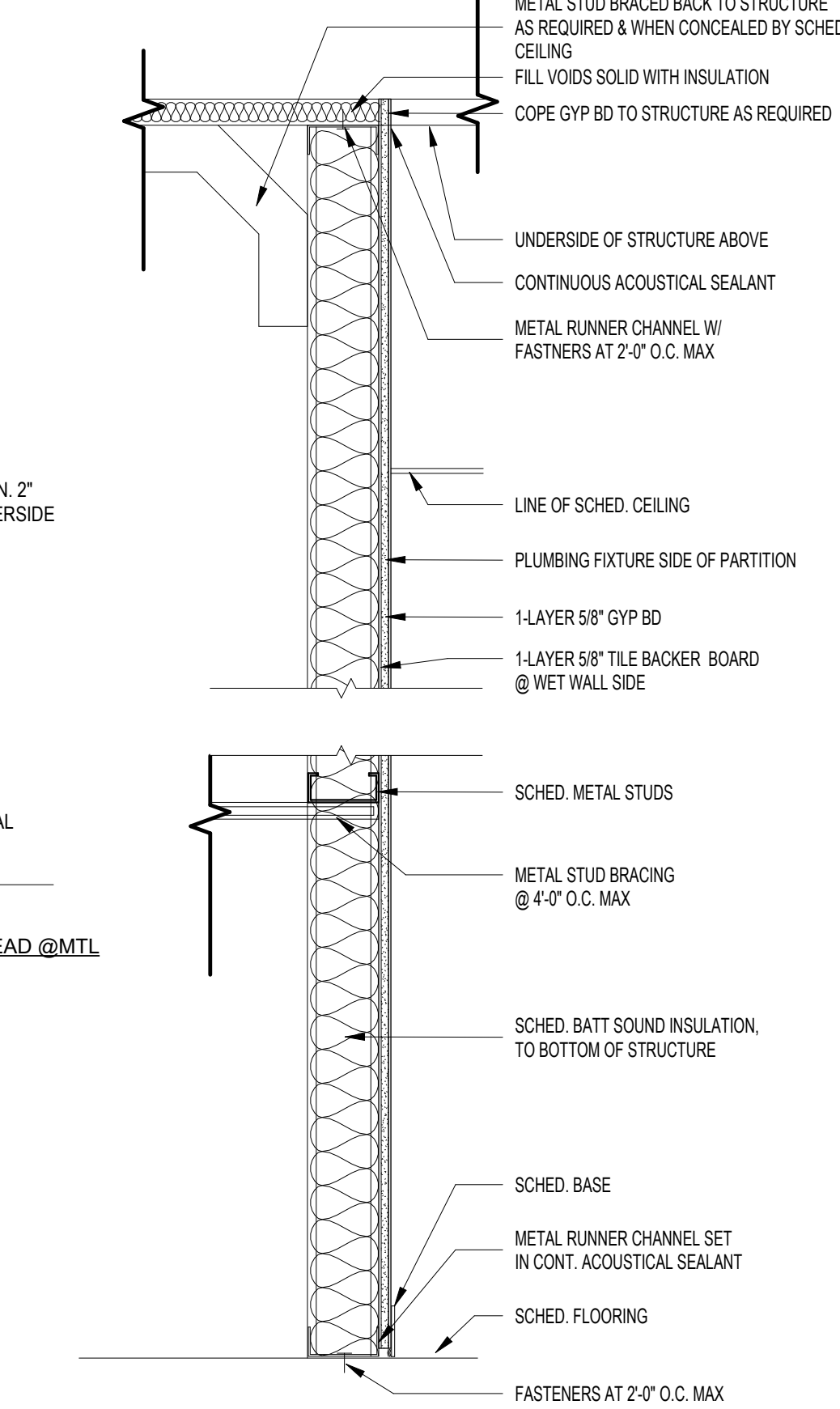
9 FIRE-RATED PARTITION
3" = 1'-0"



3 Plumbing Wall Partitions
1 1/2" = 1'-0"

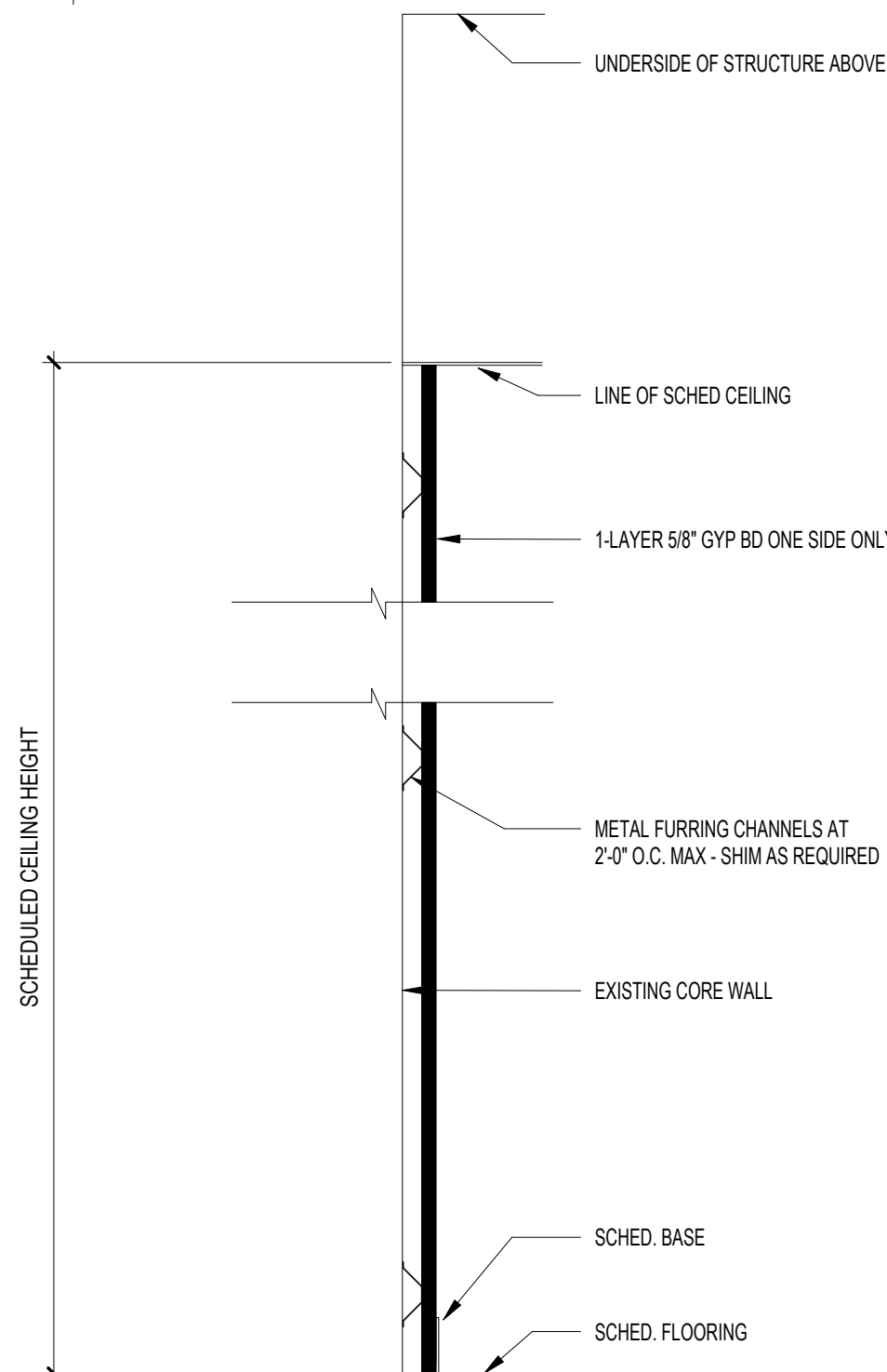
TYPE	STUD SIZE	STUD GAUGE	STUD SPACING	WALL THICKNESS	INSULATION	FIRE RATING
H1	7/8"	25	16" O.C.	1 1/2"	-	-
H2	1 5/8"	25	16" O.C.	2 1/4"	FULL	-
H3	3 5/8"	25	16" O.C.	4 1/4"	-	-
H4	3 5/8"	25	16" O.C.	4 1/4"	FULL	-
H5	6"	25	16" O.C.	6 5/8"	-	-
H6	6"	25	16" O.C.	6 5/8"	FULL	-
H7	2" Z CHANNEL	25	16" O.C.	2 5/8"	RIGID	-

4 Furred Wall Partitions
1 1/2" = 1'-0"



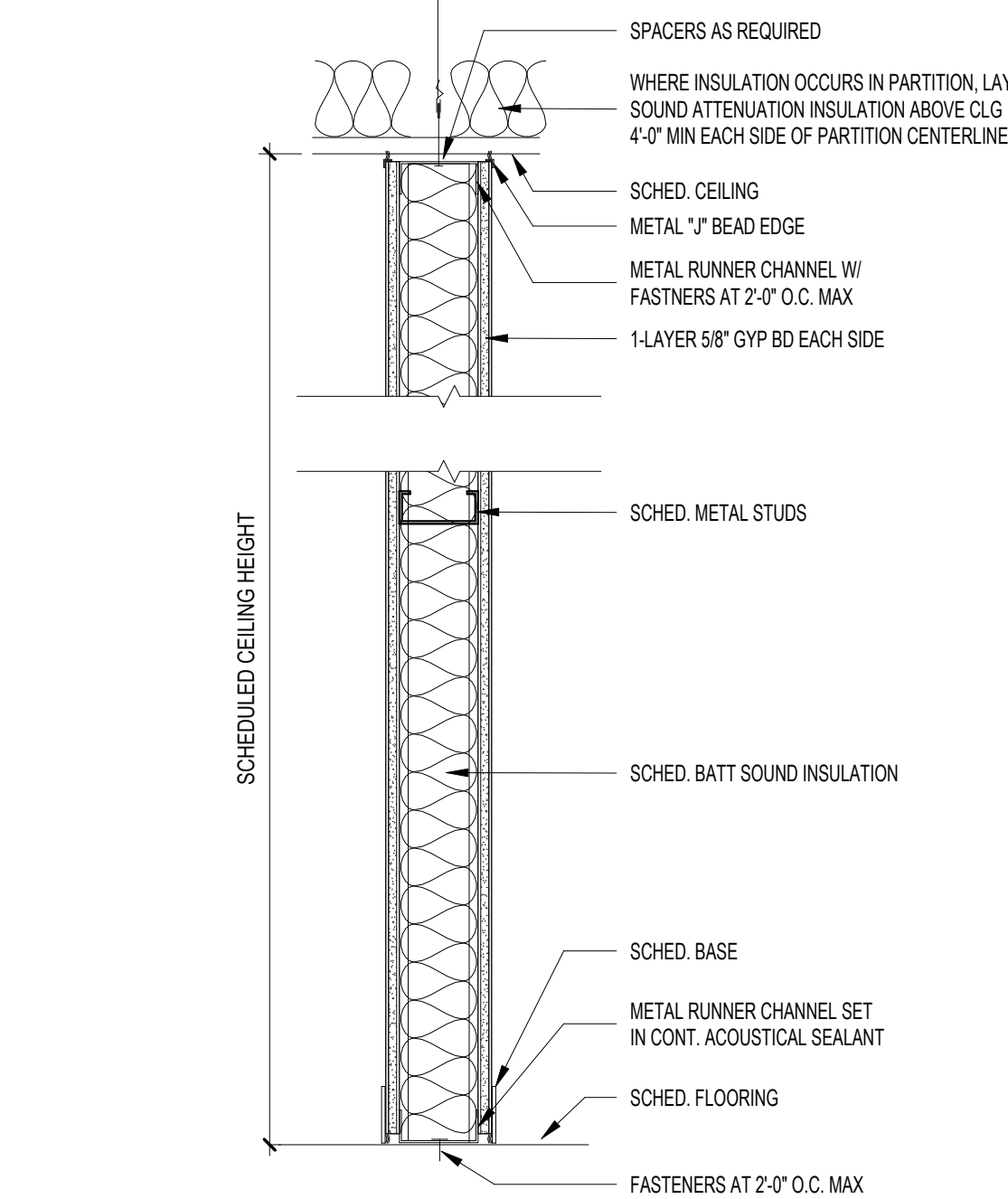
TYPE	STUD SIZE	STUD GAUGE	STUD SPACING	WALL THICKNESS	INSULATION	FIRE RATING
E1	2-1/2"	25	24" O.C.	3-1/8"	-	-
E2	2-1/2"	25	24" O.C.	3-1/8"	FULL	-
E3	3-5/8"	25	24" O.C.	4-1/4"	-	-
E4	3-5/8"	25	24" O.C.	4-1/4"	FULL	-
E5	6"	25	24" O.C.	6-5/8"	-	-
E6	6"	25	24" O.C.	6-5/8"	FULL	-

* USE 20 GA. FOR WALL HEIGHTS EXCEEDING 16'-0"



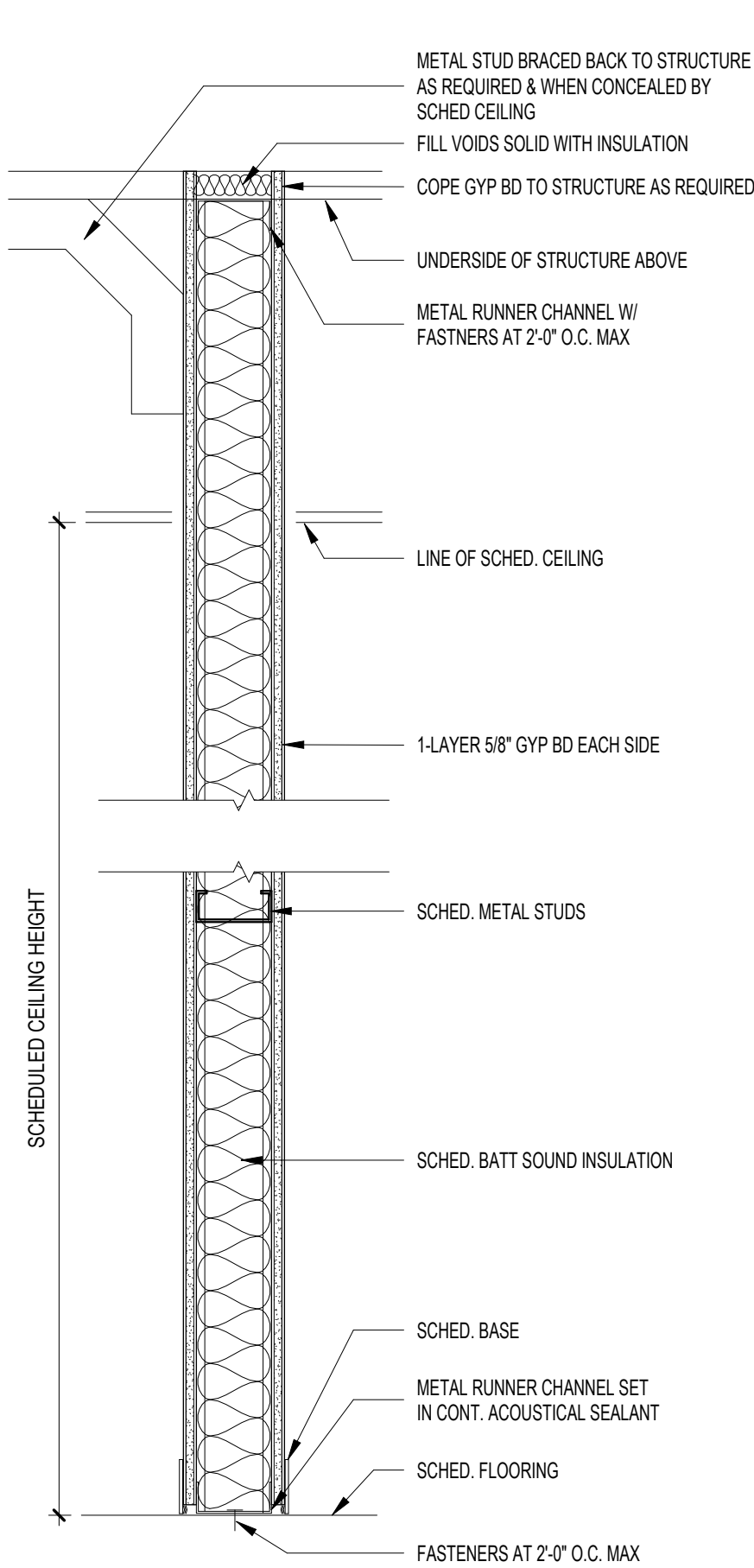
TYPE	STUD SIZE	STUD GAUGE	STUD SPACING	WALL THICKNESS	INSULATION	FIRE RATING
C1	2-1/2"	25	16" O.C.	3-3/4"	-	-
C2	2-1/2"	25	16" O.C.	3-3/4"	FULL	-
C3	3-5/8"	25	16" O.C.	4-7/8"	-	-
C4	3-5/8"	25	16" O.C.	4-7/8"	FULL	-
C5	6"	25	16" O.C.	7-1/4"	-	-
C6	6"	25	16" O.C.	7-1/4"	FULL	-

2 Wall Partitions to Deck above
1 1/2" = 1'-0"



TYPE	STUD SIZE	STUD GAUGE	STUD SPACING	WALL THICKNESS	INSULATION	FIRE RATING
A1	2-1/2"	25	24" O.C.	3-3/4"	-	-
A2	2-1/2"	25	24" O.C.	3-3/4"	FULL	-
A3	3-5/8"	25	24" O.C.	4-7/8"	-	-
A4	3-5/8"	25	24" O.C.	4-7/8"	FULL	-
A5	6"	25	24" O.C.	7-1/4"	-	-
A6	6"	25	24" O.C.	7-1/4"	FULL	-

1 Wall Partitions to Ceiling - TYP. U.O.N.
1 1/2" = 1'-0"



NO.	DESCRIPTION	DATE
1	Client Revisions	4/08/22
5	City Comments	6/29/22

JUNIPER ROAD STUDIOS

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Denver, CO 80212
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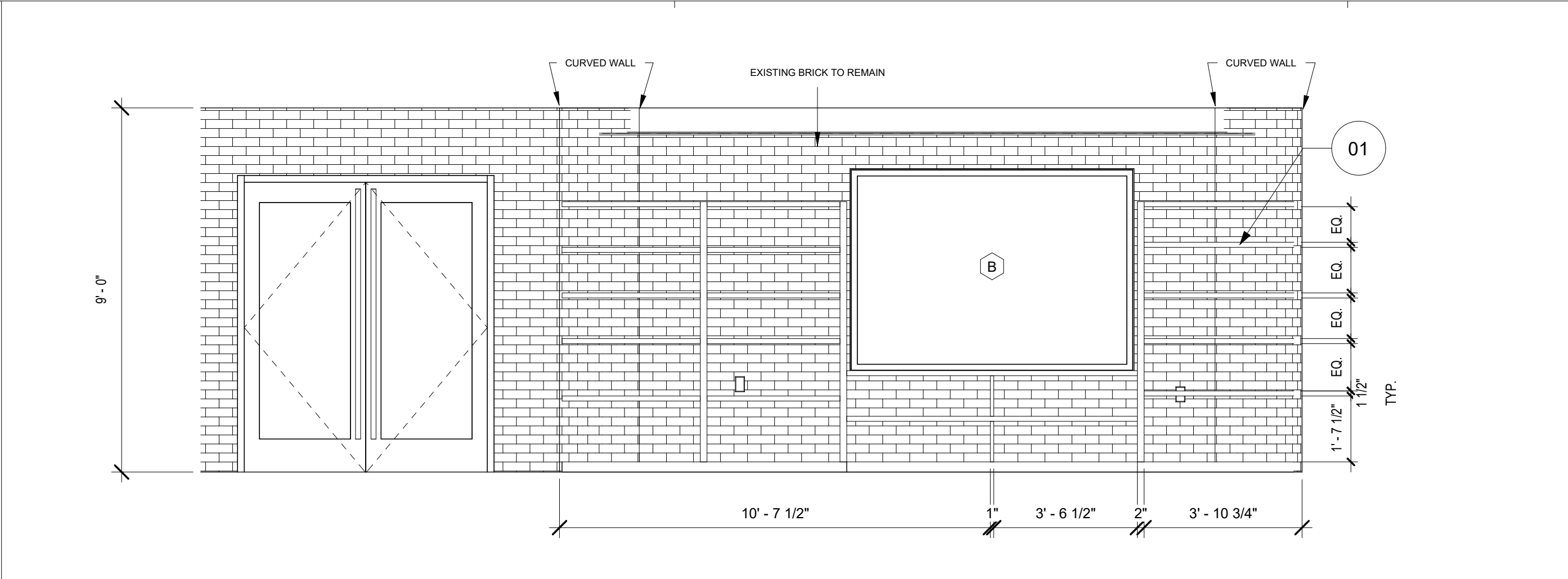
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Wall Partitions

DRAWN BY JRS
DATE 8/01/2022
SCALE @ 24"x36" As indicated

SHEET A09.00
REV. 5
PROJECT NUMBER 21-4840

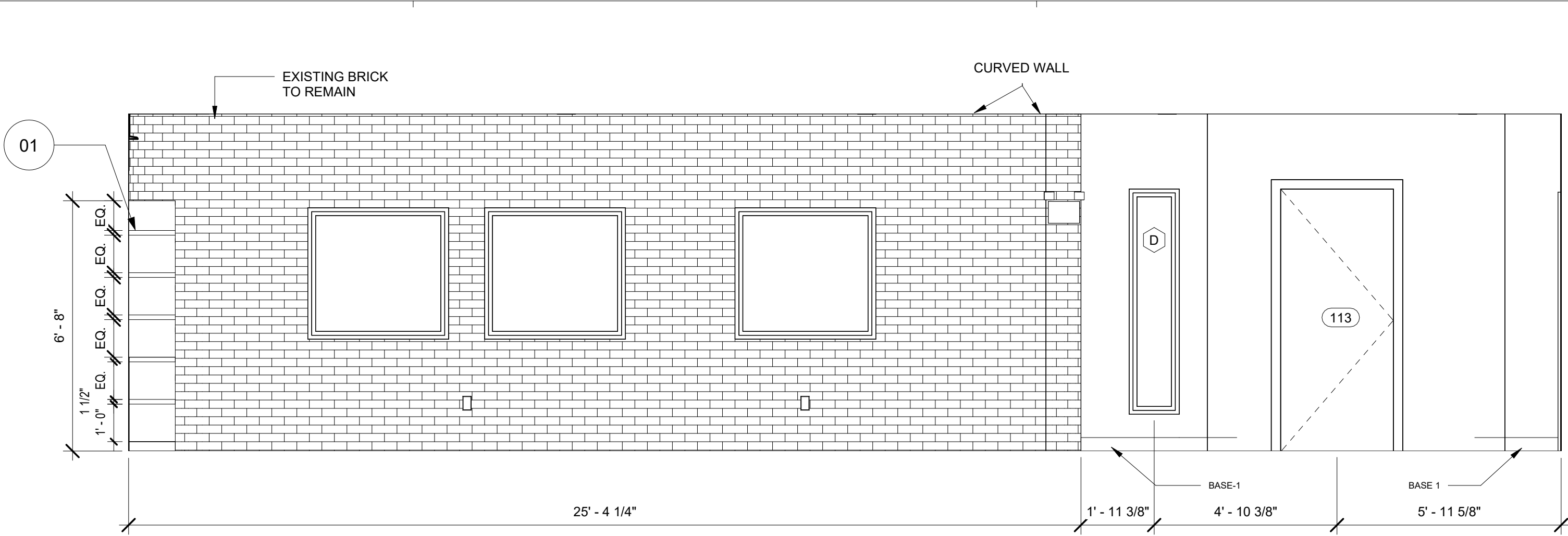
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Reception North Elevation

3/8" = 1'-0"

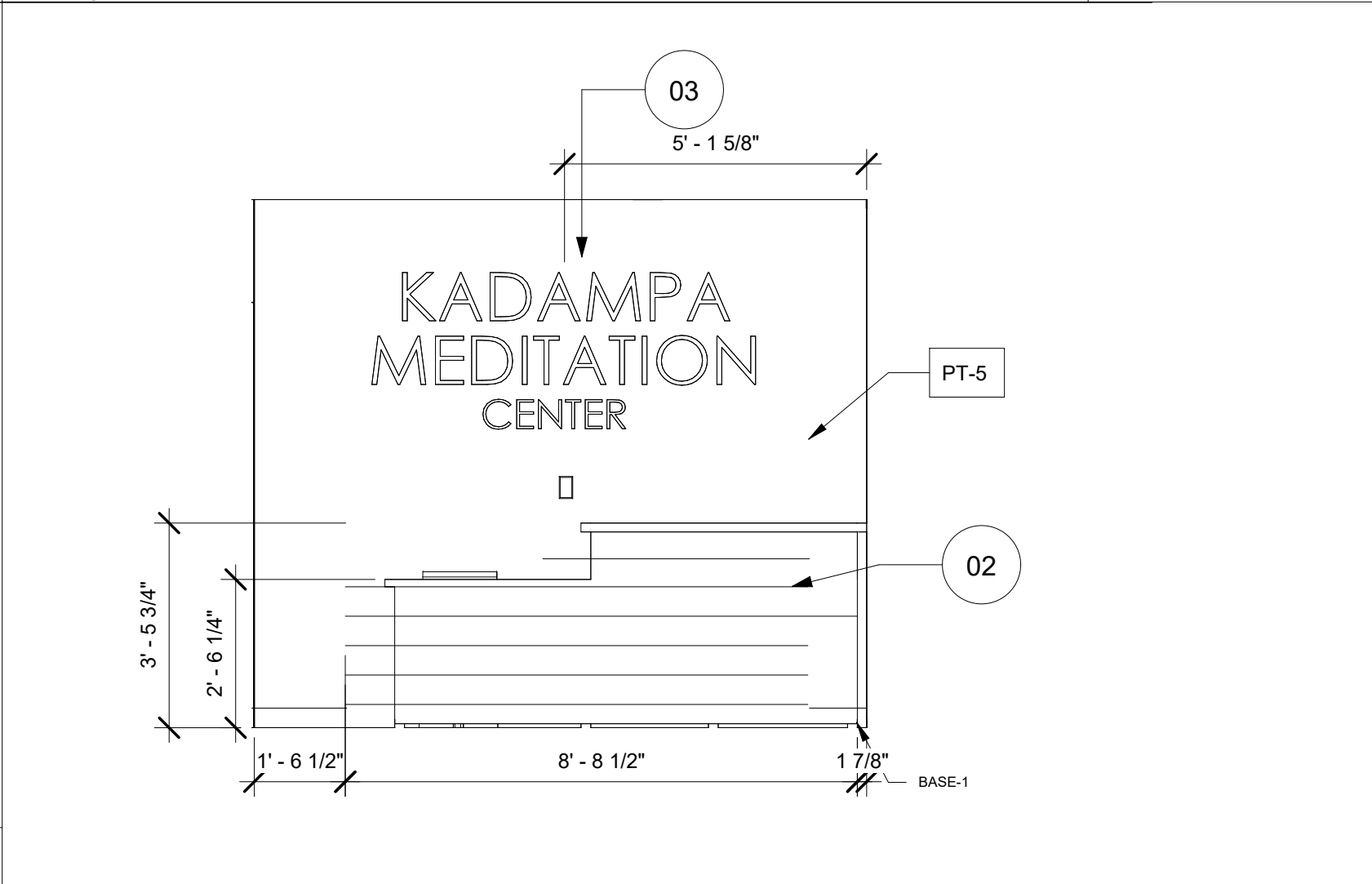
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Reception East Wall

3/8" = 1'-0"

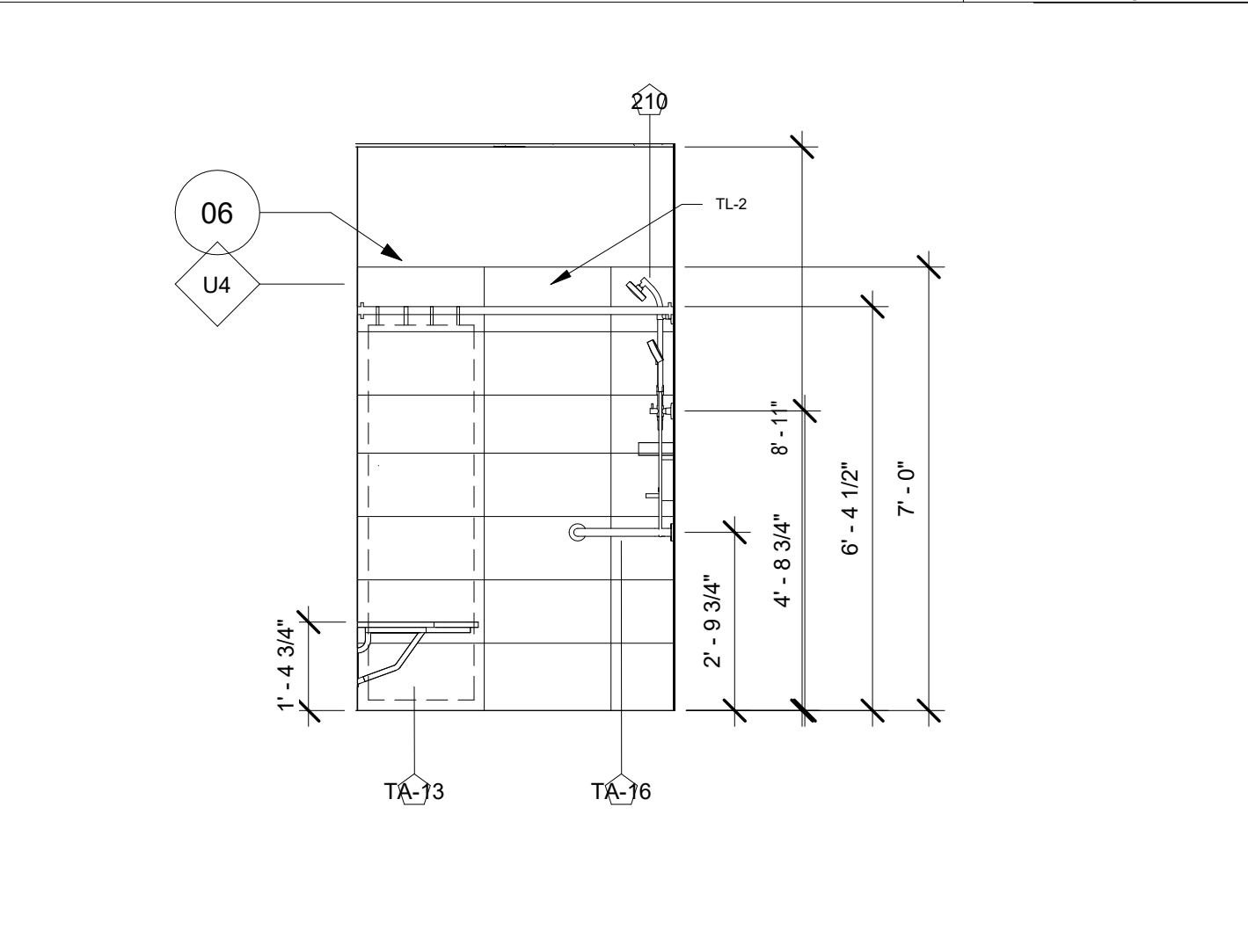
2



Reception South Wall

3/8" = 1'-0"

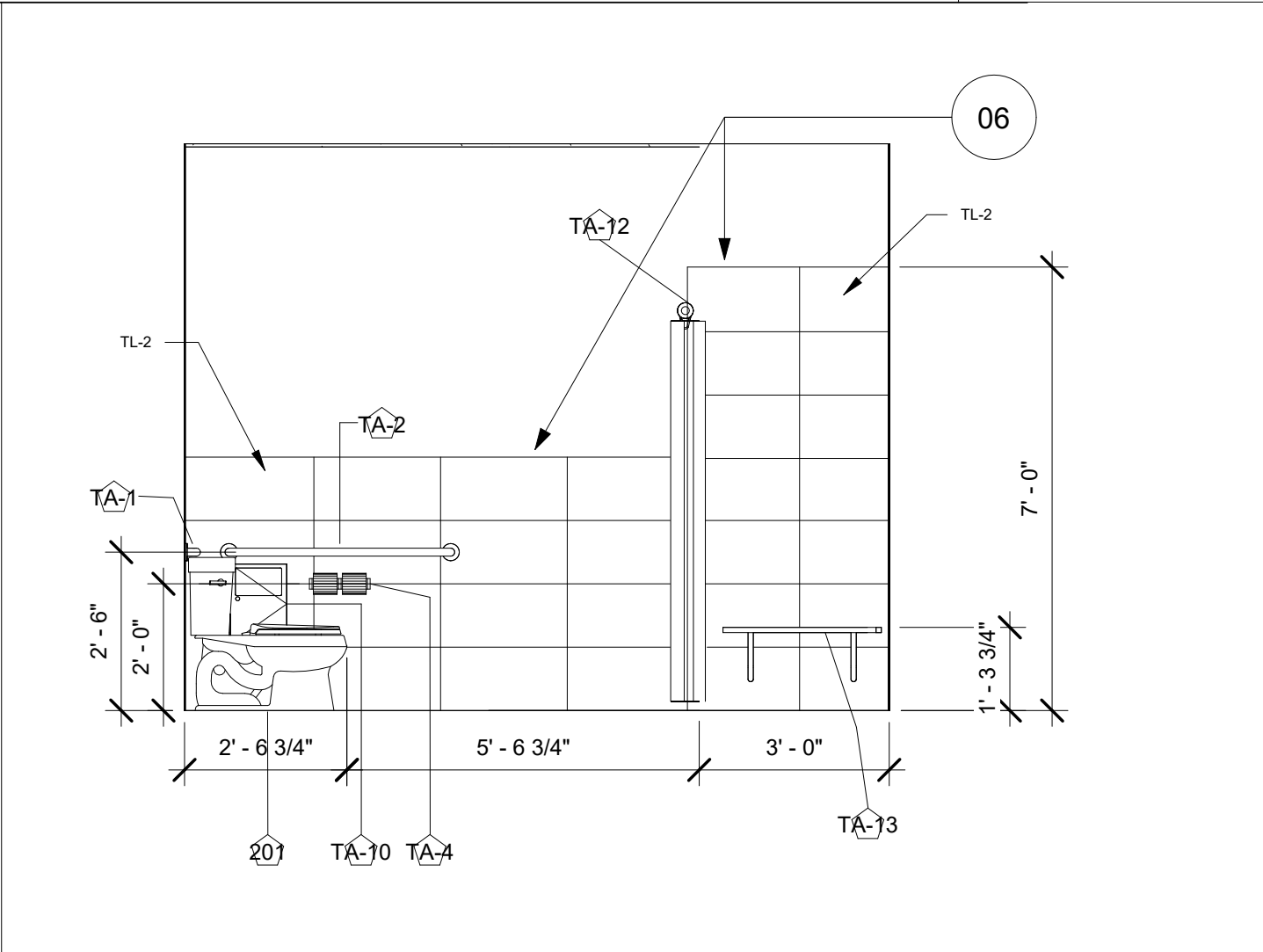
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Restroom #1 Shower West Wall

3/8" = 1'-0"

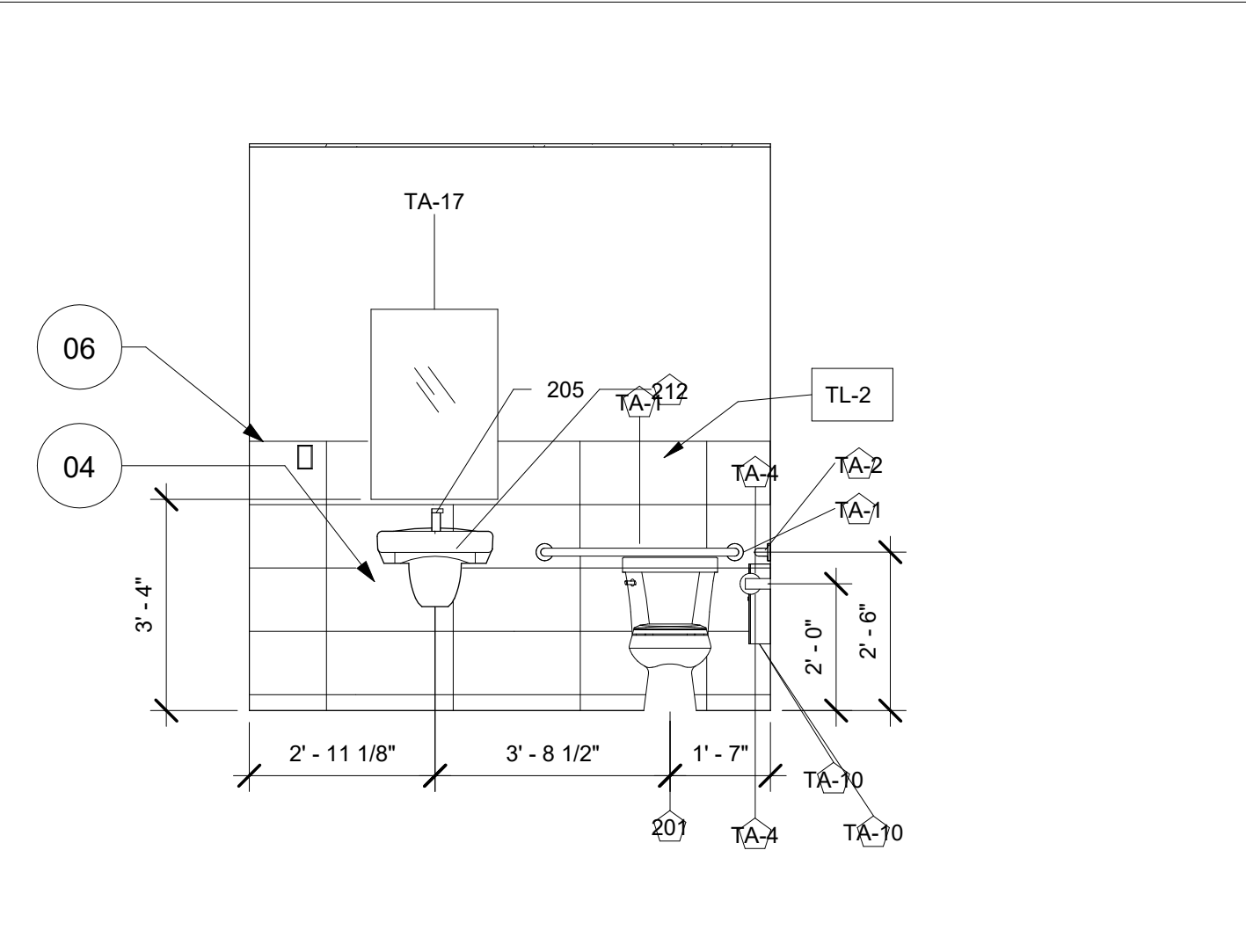
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Restroom #1 South Wall

3/8" = 1'-0"

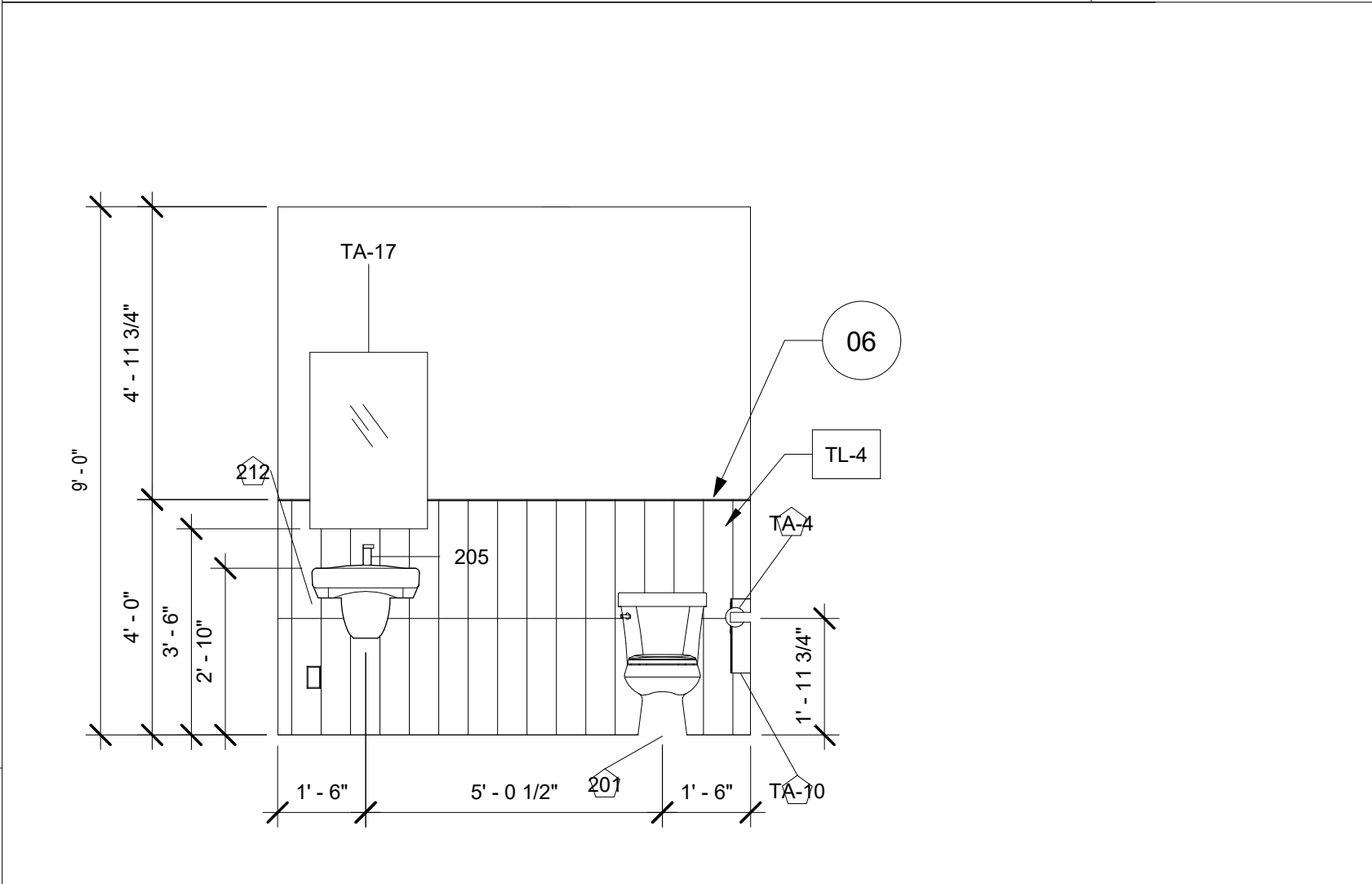
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Restroom #1 East Wall

3/8" = 1'-0"

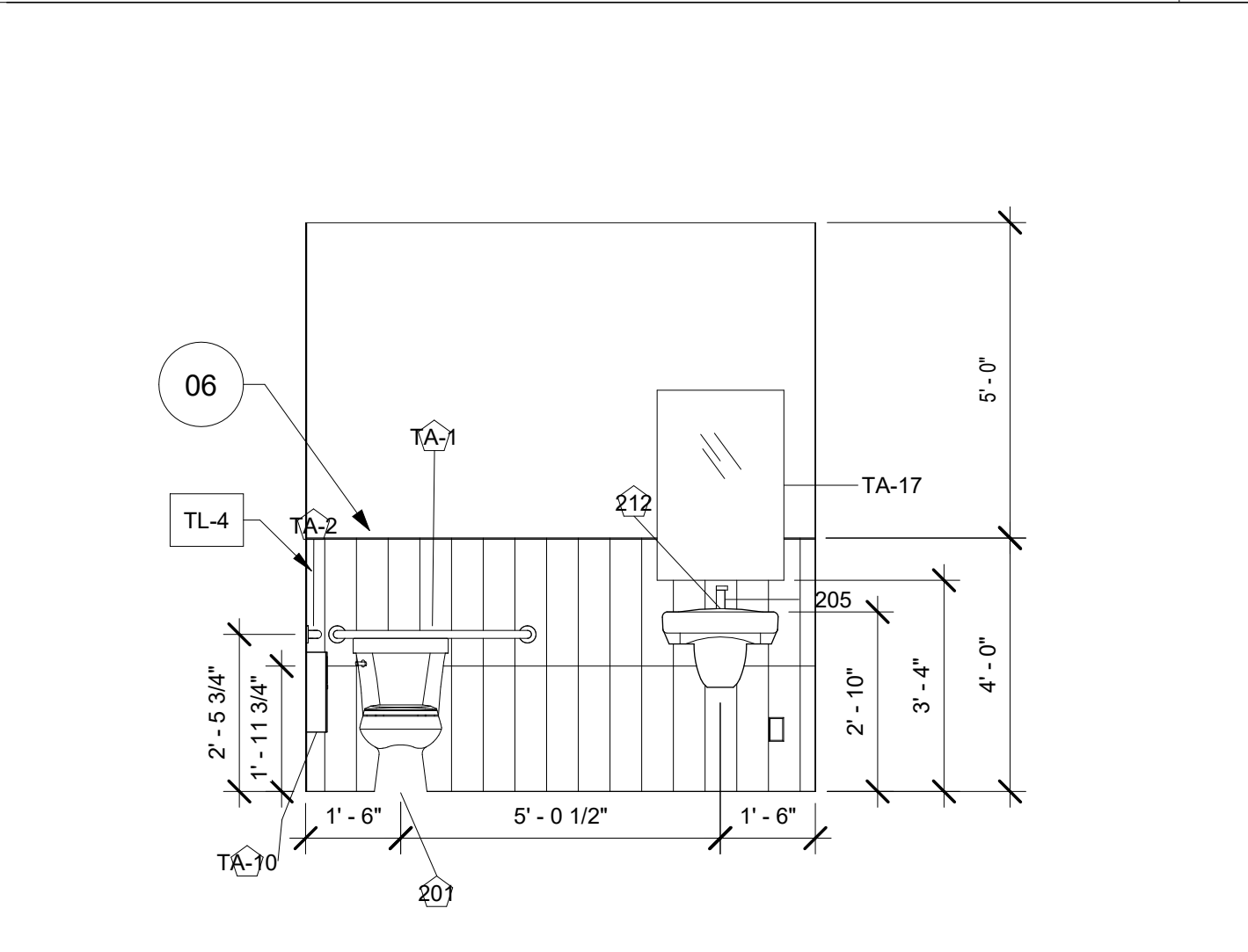
6



Restroom #2 South Wall

3/8" = 1'-0"

7



Restroom #3 North Wall

3/8" = 1'-0"

8

Interior Elevation Notes	
Note Number	Note Text
01	CUSTOM BOOKCASE BUILT IN PLACE, SCRIBED TO CURVED WALLS. BY OTHERS
02	RECEPTION DESK CUSTOM BUILT. BY OTHERS
03	CUSTOM SIGNAGE TO BE PROVIDED & INSTALLED BY SIGNAGE VENDOR. SIGNAGE DRAWINGS TO BE PROVIDED BY ARCHITECT OF RECORD.
04	SHOWER CURB, INTERIOR AND EXTERIOR OF CURB TO BE TILED WITH SHOWER WALL TILE. SCHLUTER TRIM TO BE USED AT ALL OUTSIDE EDGES.
06	SCHLUTER METAL TRIM TO BE USED AT ALL EXPOSED TILE EDGES.
07	CABINETS FROM EXISTING KITCHEN RELOCATED HERE. PROVIDE BACKING AND CREATE FILLER PANELS FROM MDF MATERIAL AS REQUIRED.
08	EXISTING APPLIANCES FROM CURRENT KITCHEN TO BE RELOCATED HERE. PROVIDE POWER AS REQ. PER MEP PLANS.
09	NEW CABINET THIS LOCATION. FUR OUT WALL BEHIND TO BRING CABINET FACE FLUSH WITH APPLIANCE. CABINET SOURCE HAMPTON BAY HICKORY FROM HOME DEPOT. SEE SPECIFICATIONS.
10	RANGE HOOD TO BE INSTALLED WITH A UL300A LISTED FIRE SUPPRESSION SYSTEM SEE EQUIPMENT SCHEDULE AND MEP PLANS
11	FRAME OUT SOFFIT ABOVE RANGE HOOD FACE WITH PAINT GRADE MDF, PAINT TO MATCH CABINETS
12	CREATE END PANELS AND FILLER PIECES FROM MDF, PRIME AND PAINT TO MATCH CABINETS
13	FRAME PLINTH FOR CABINETS TO ELEVATE EACH BOX TO THE APPROPRIATE HEIGHT. INSTALL NEW TOEKICK MADE FROM PLYWOOD PRIMED AND PAINTED TO MATCH CABINETS.

**KADAMPA
MEDITATION CENTER**
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Denver, CO 80212
Building Renovation

PROFESSIONAL SEAL

8/01/2022

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JUNIPER ROAD STUDIOS LLC.
OF ANY
DIMENSIONAL ERRORS, OMISSIONS,
OR DISCREPANCIES BEFORE
BEGINNING OR FABRICATING
ANY WORK.

Interior Elevations

DRAWN BY
JRS

DATE
8/01/2022

SCALE @ 24"x36"
3/8" = 1'-0"

SHEET
A11.00

REV.

PROJECT NUMBER
21-4840

8/20/2022 3:04:08 PM

DATE

DESCRIPTION

NO.

**JUNIPER ROAD
STUDIOS**

Architectural elevation drawing of a wall section. The drawing shows a window with a transom and a door below. The window height is 12'-6" and the transom height is 9'-0 1/2". The door height is 3'-5 1/4". The wall is labeled "GYP BD." (Gypsum Board). The door is labeled "MILLWORK BY OWNER". A note "PT-4" is present near the top of the wall.

Gompa South Wall	3/8" = 1'-0"	3
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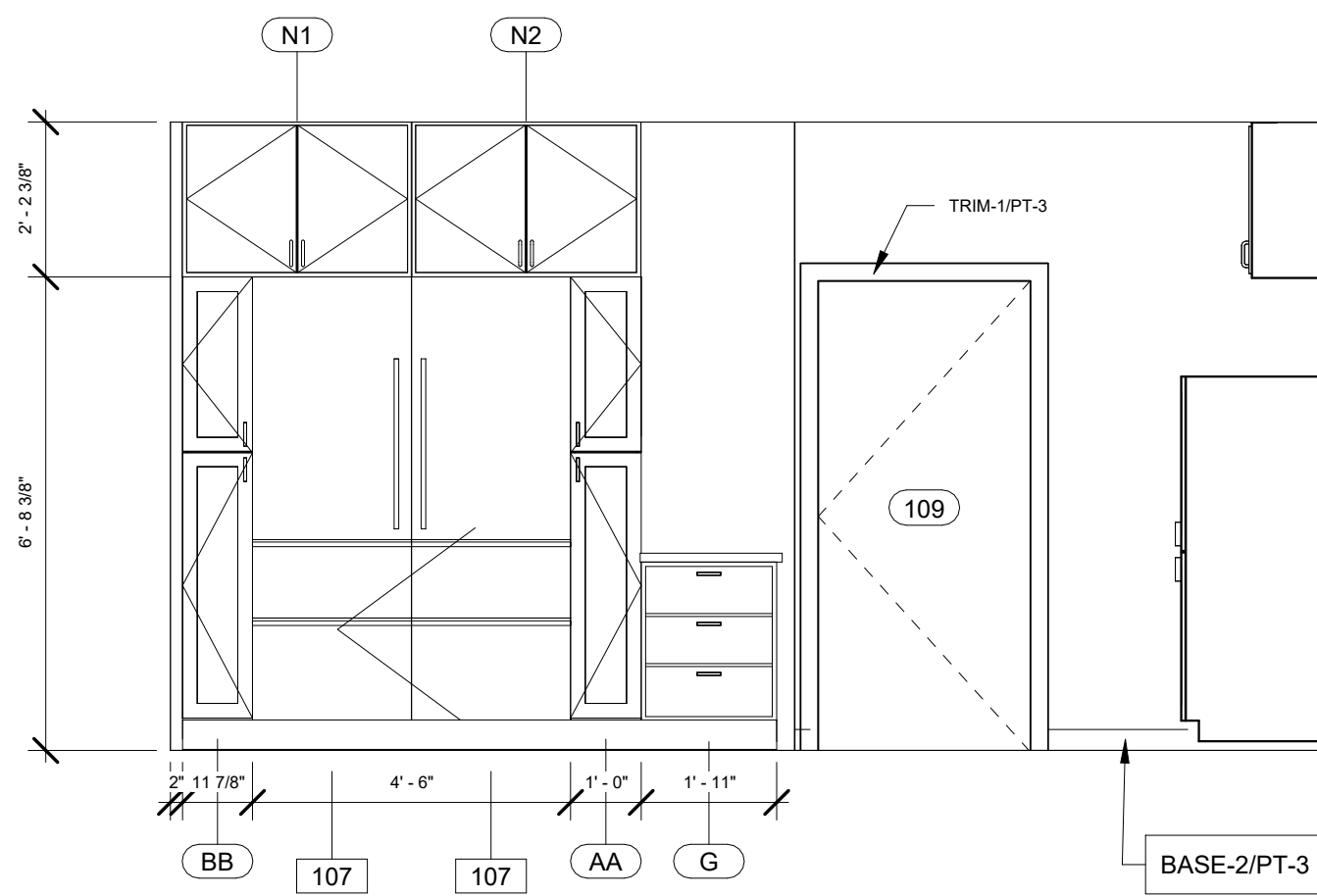
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8/01/2022

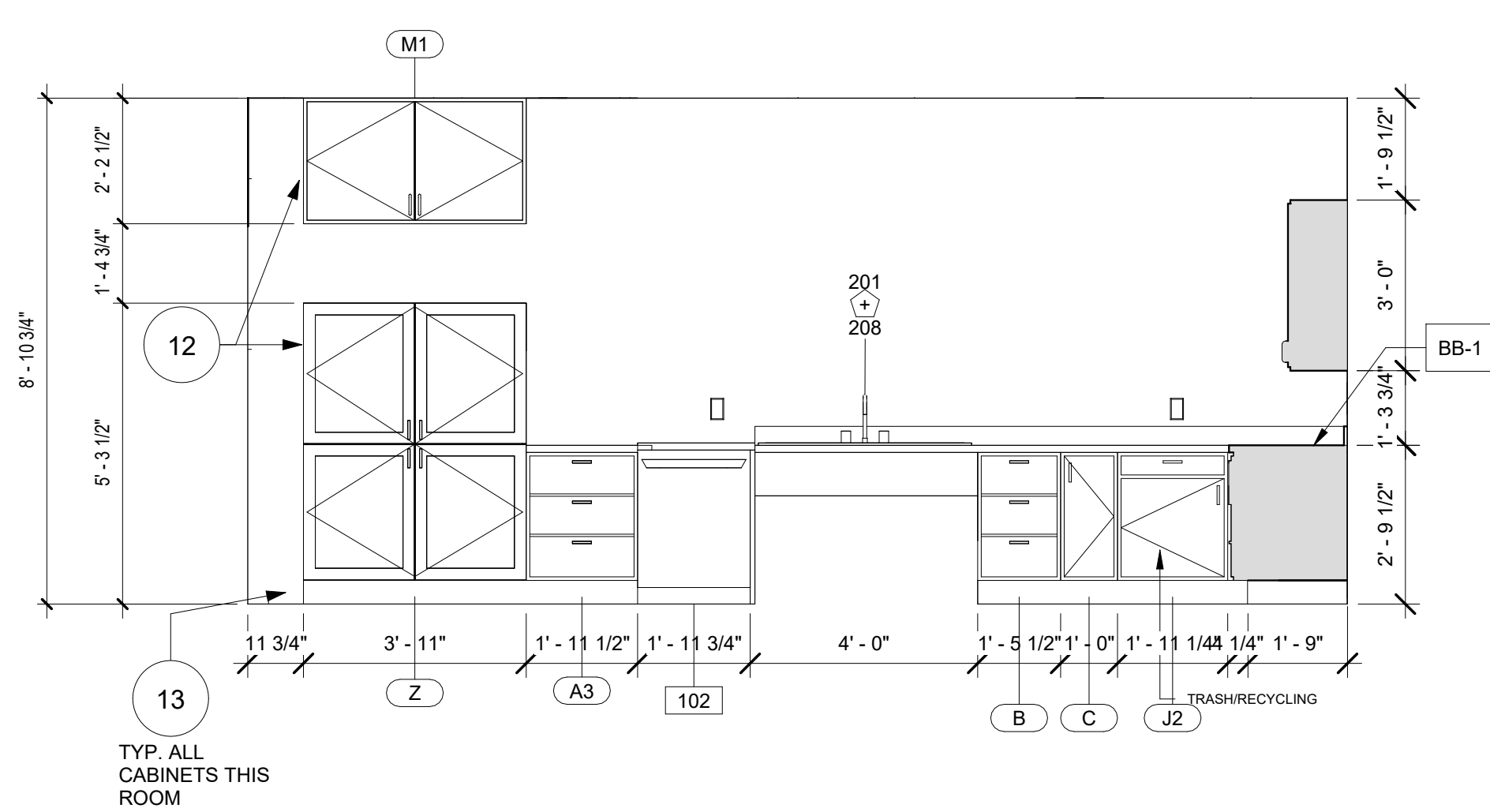
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Interior Elevations

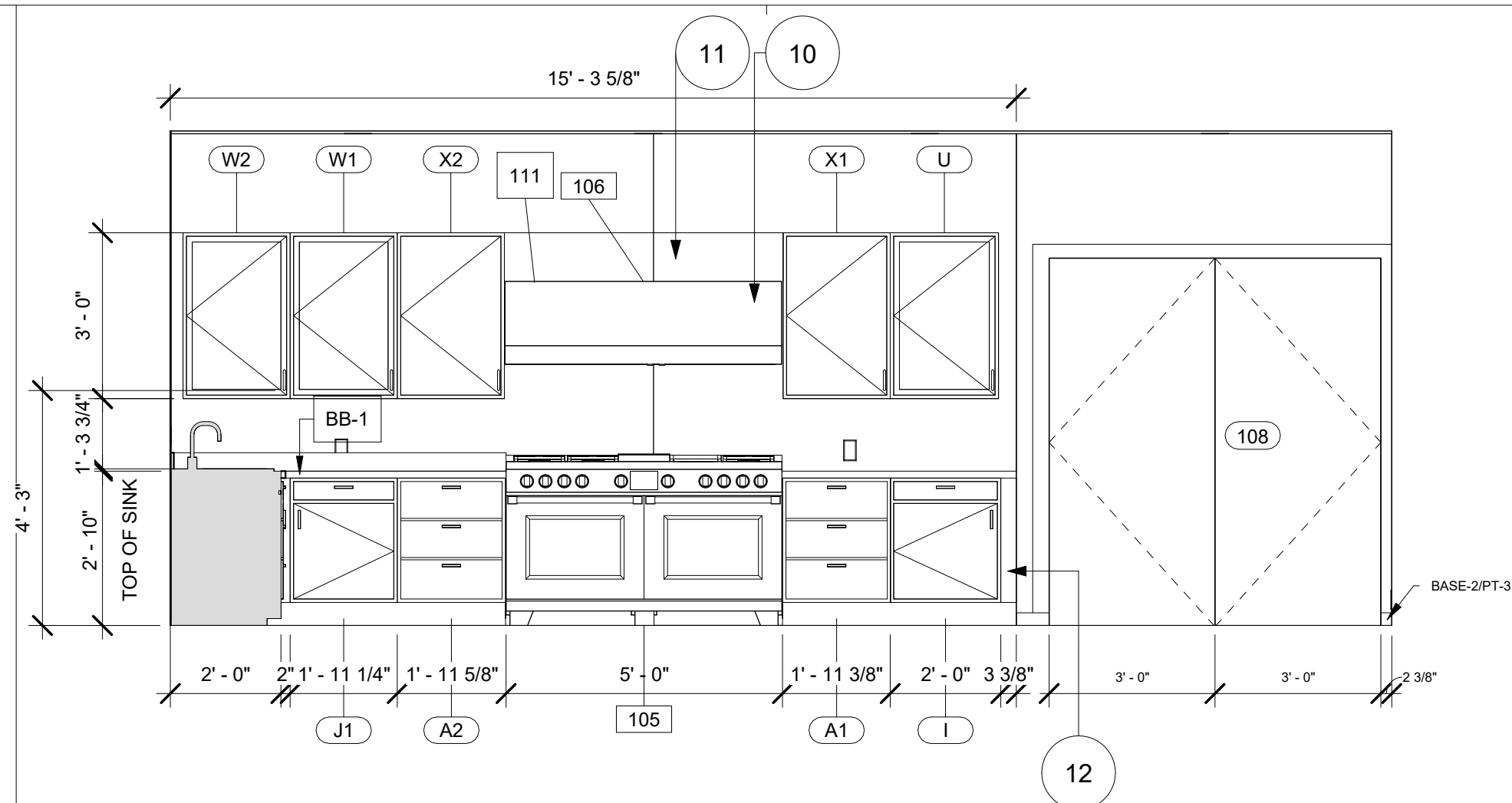
DRAWN BY JRS	SHEET A11.01
DATE 8/01/2022	REV. 
SCALE @ 24"x36" 3/8" = 1'-0"	PROJECT NUMBER 21-4840



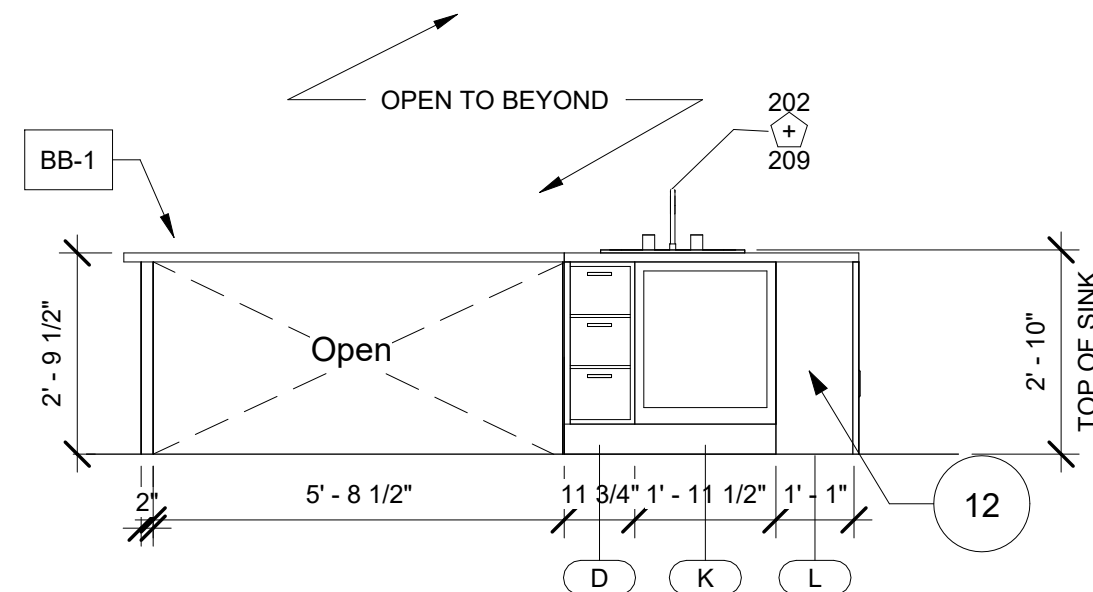
Kitchen North Wall	3/8" = 1'-0"	1
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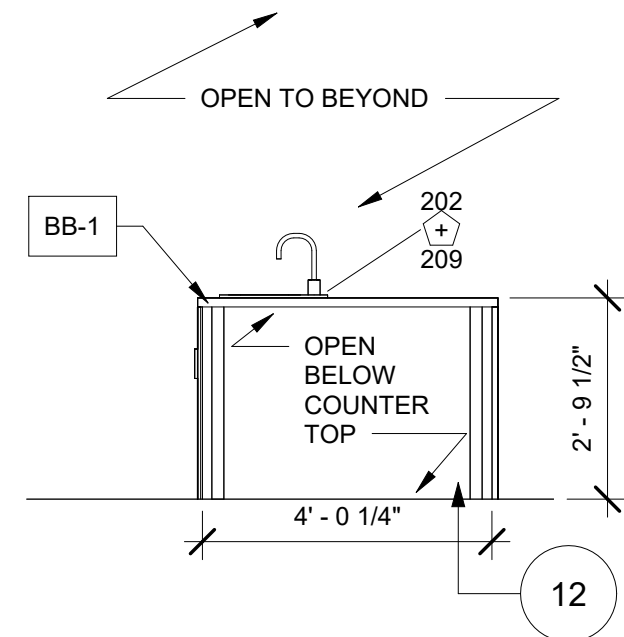
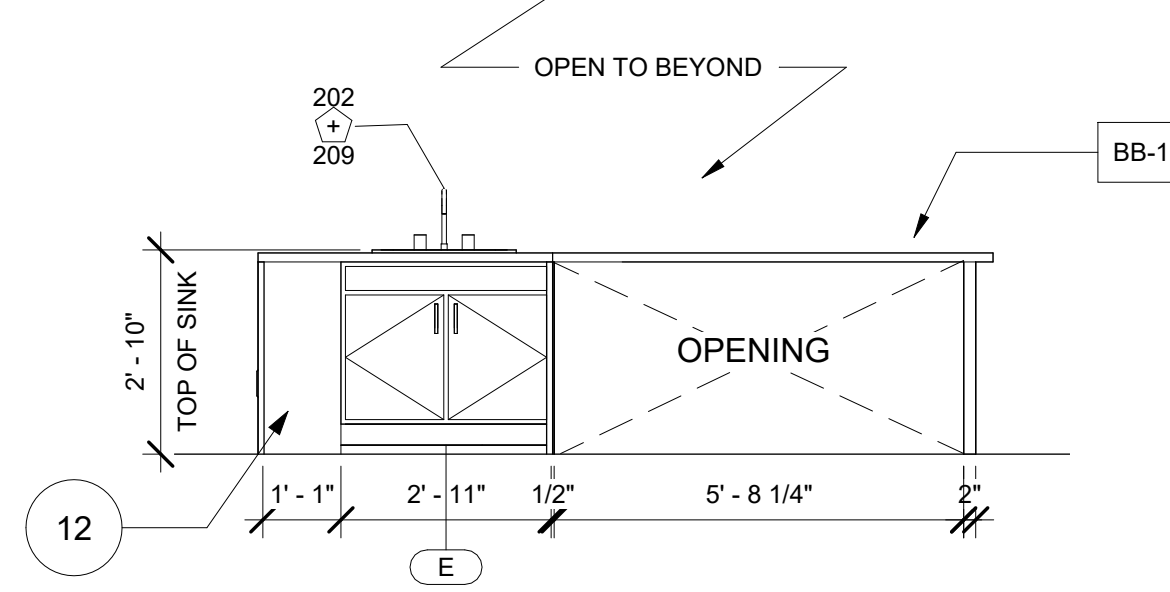
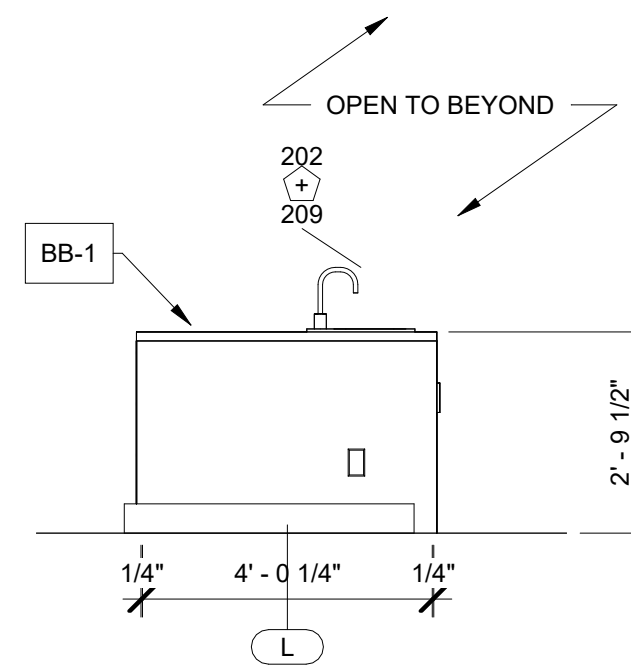
Kitchen East Wall 3/8" = 1'-0"



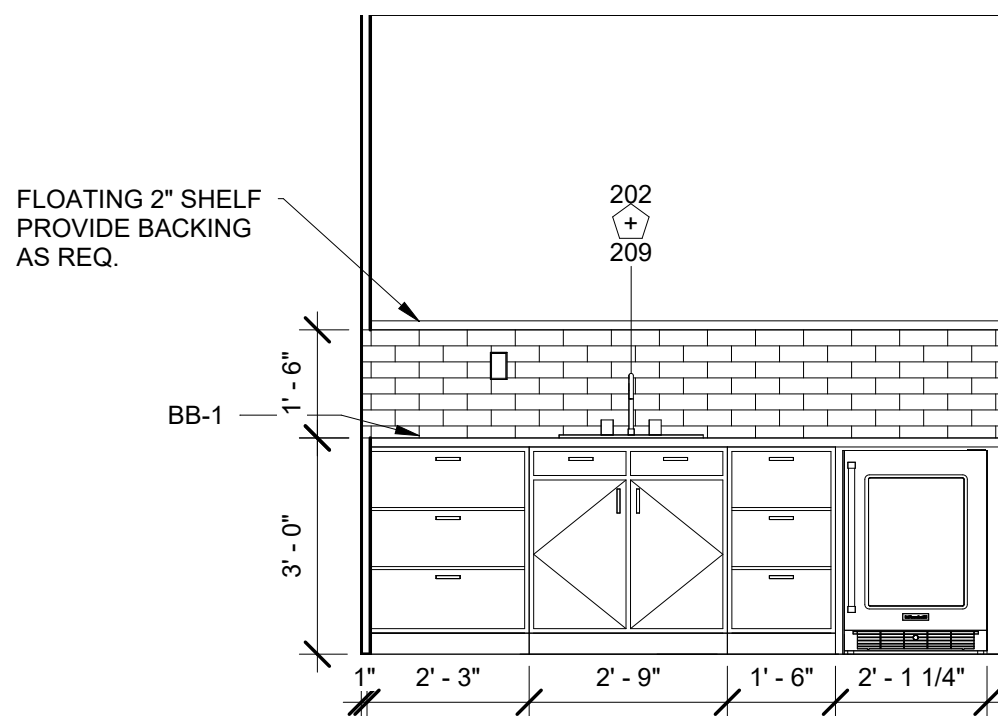
2Kitchen South Wall	3/8" = 1'-0"	3
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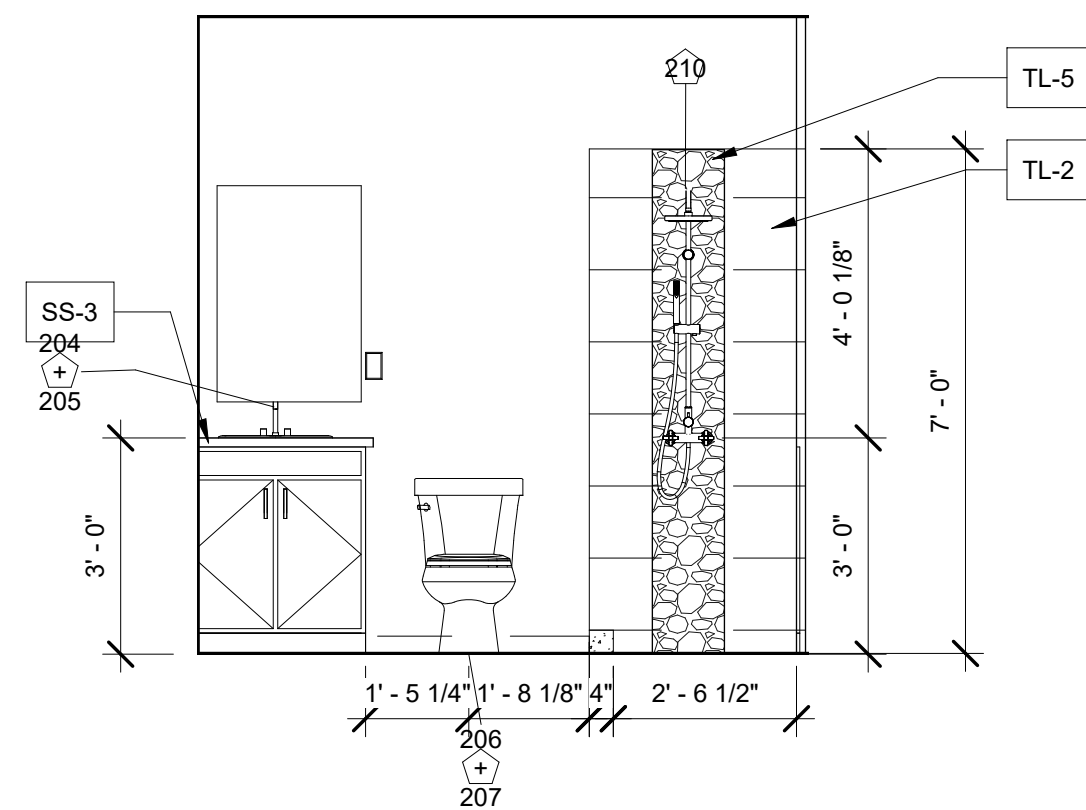
Kitchen Island North Elevation	3/8" = 1'-0"	4
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Kitchen Island East Elevation 3/8" = 1'-0"Kitchen Island South Elevation 3/8" = 1'-0"

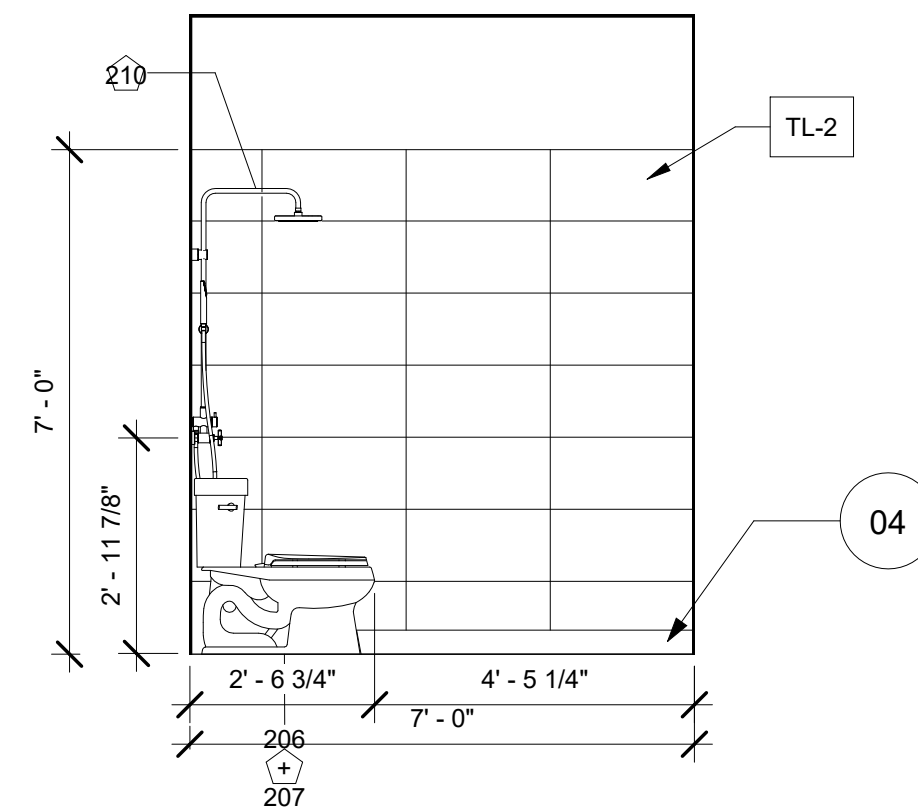
Kitchen Island West Elevation	3/8" = 1'-0"	7
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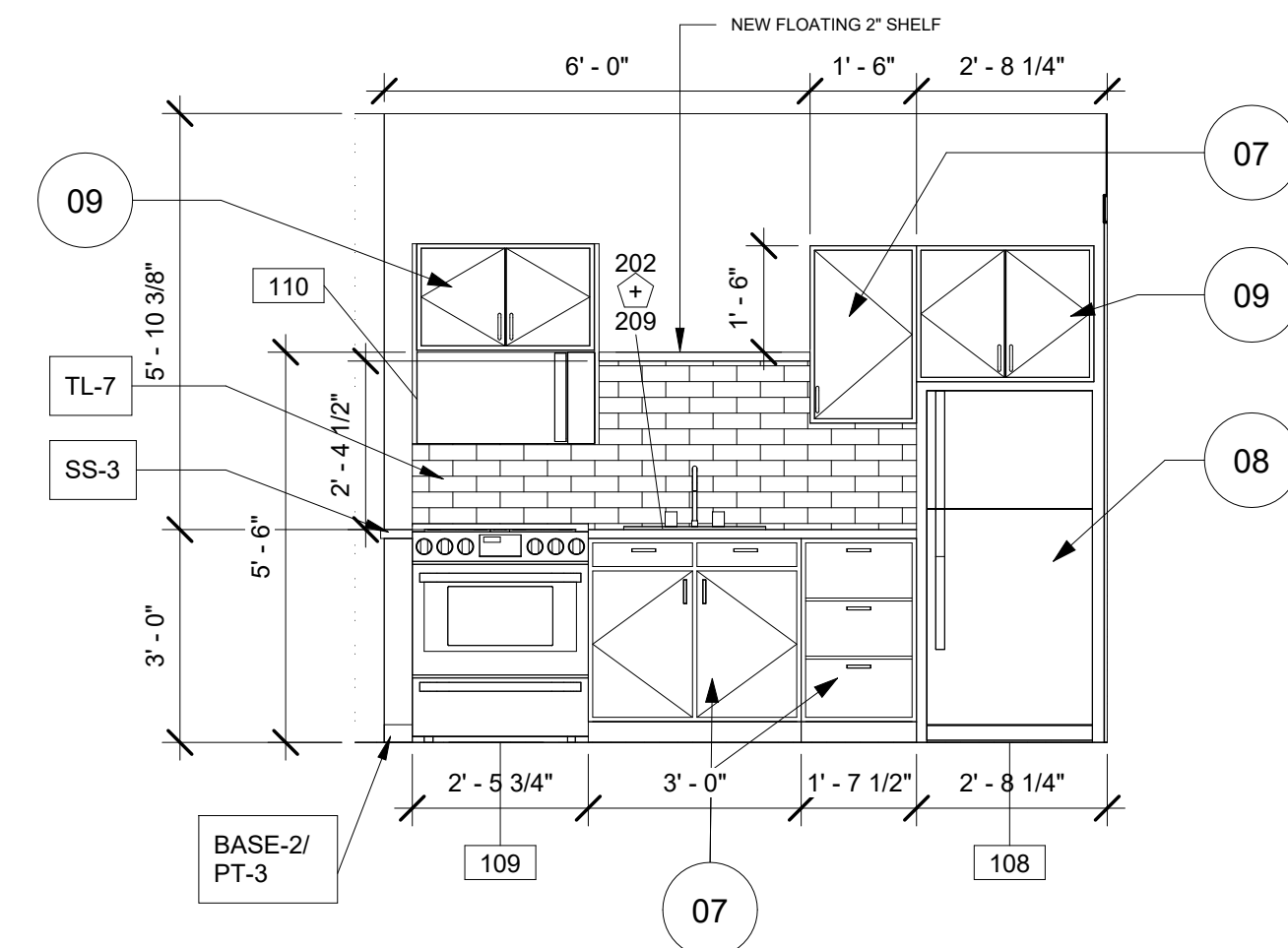
Kitchenette East Wall	3/8" = 1'-0"	8
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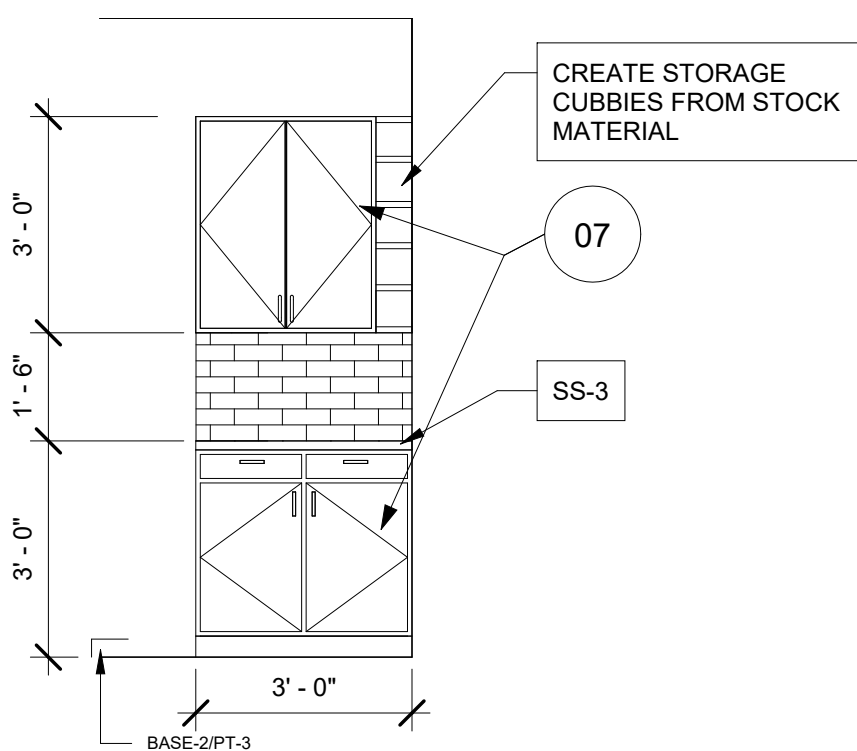
Restroom #5 East Wall TYP. PRIVATE RESTROOMS	3/8" = 1'-0"	9
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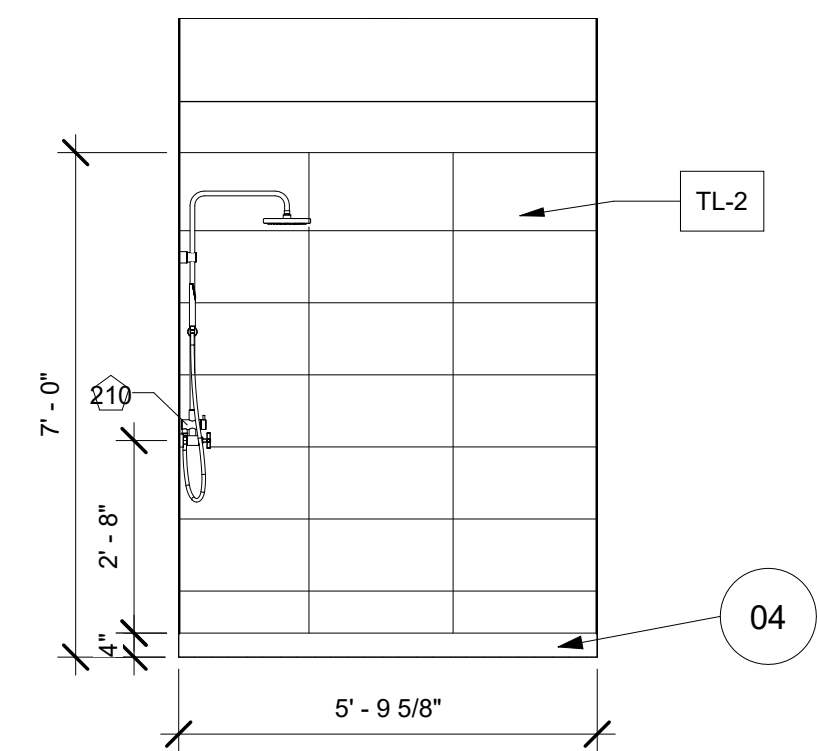
Restroom #5 South Wall - TYP. PRIVATE RESTROOMS 3/8" = 1'-0"



Apt. Kitchen North Wall	3/8" = 1'-0"	11
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Apt. Kitchen Pantry Elevation	3/8" = 1'-0"	12
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Restroom #6 East Wall - Shower	3/8" = 1'-0"	13
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Interior Elevation Notes	
Note Number	Note Text
01	CUSTOM BOOKCASE BUILT IN PLACE, SCRIBED TO CURVED WALLS. BY OTHERS
02	RECEPTION DESK CUSTOM BUILT. BY OTHERS
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04	SHOWER CURB, INTERIOR AND EXTERIOR OF CURB TO BE TILED WITH SHOWER WALL TILE. SCHLUTER TRIM TO BE USED AT ALL OUTSIDE EDGES.
06	SCHLUTER METAL TRIM TO BE USED AT ALL EXPOSED TILE EDGES.
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[illegible]

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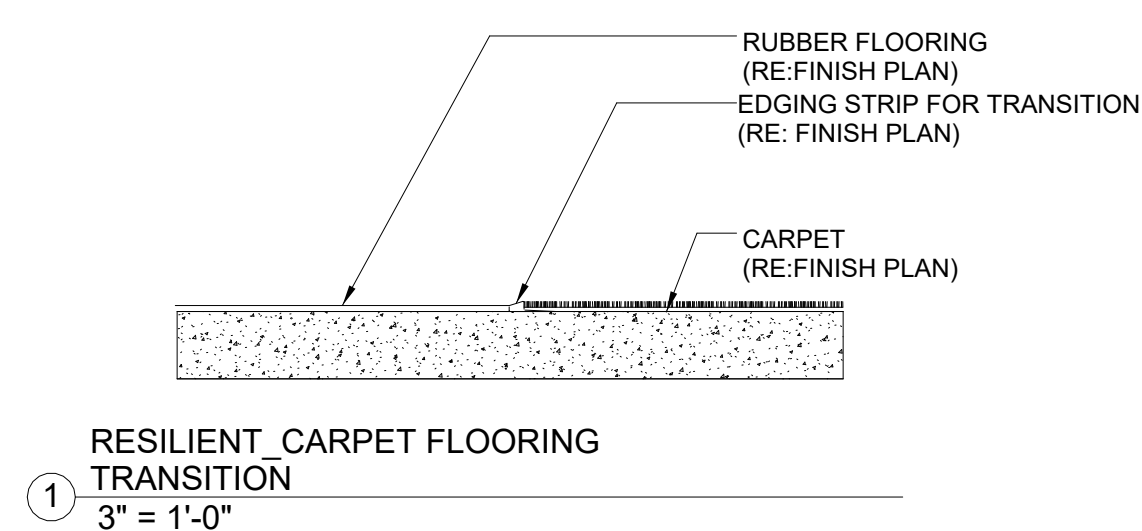
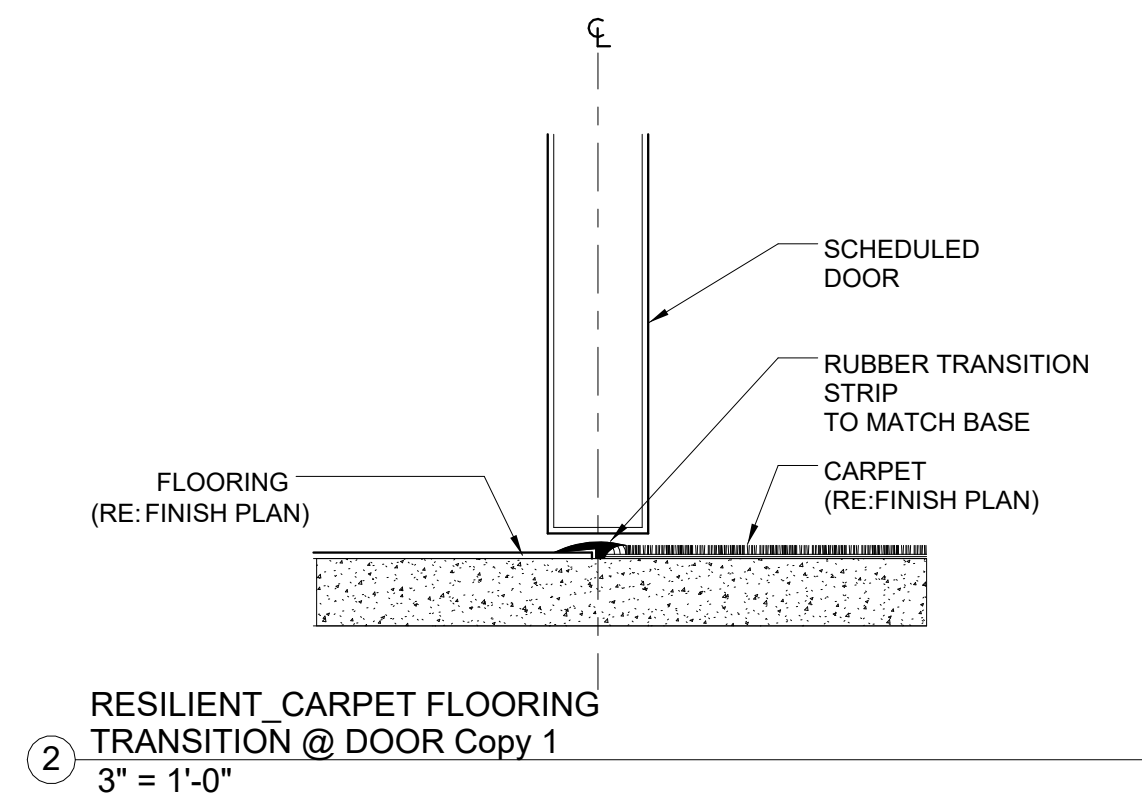
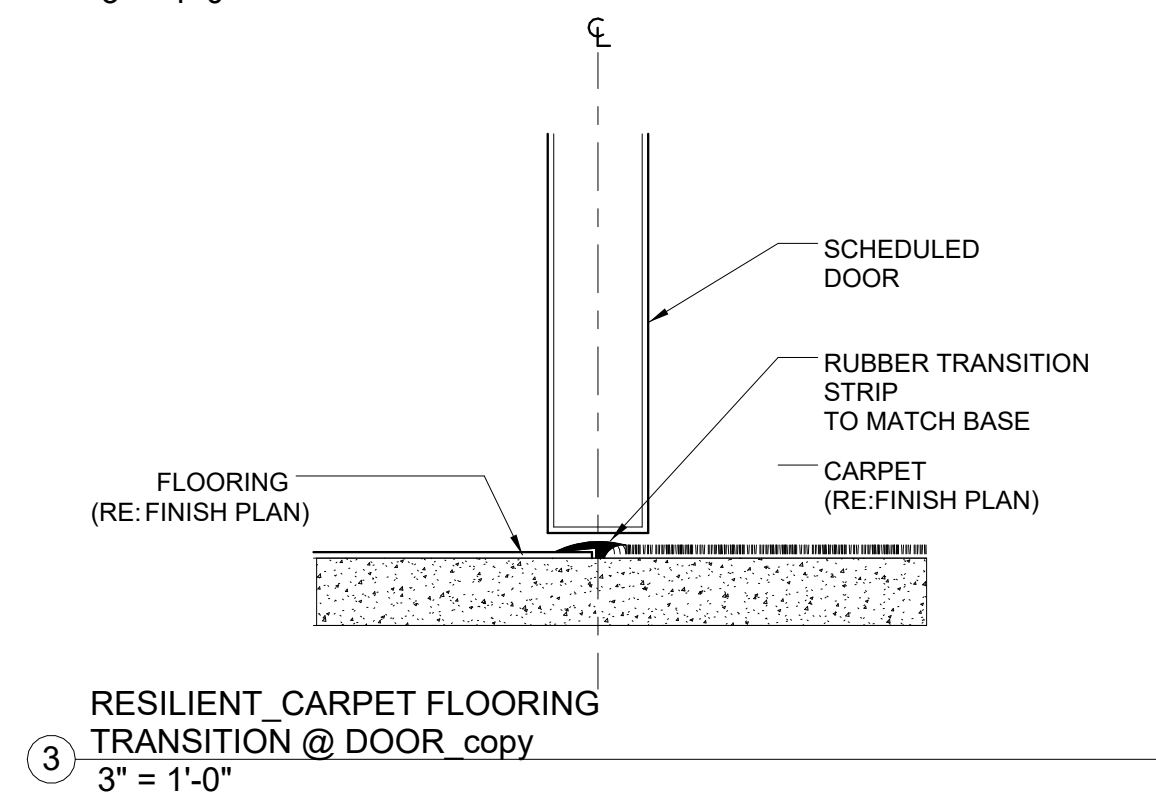
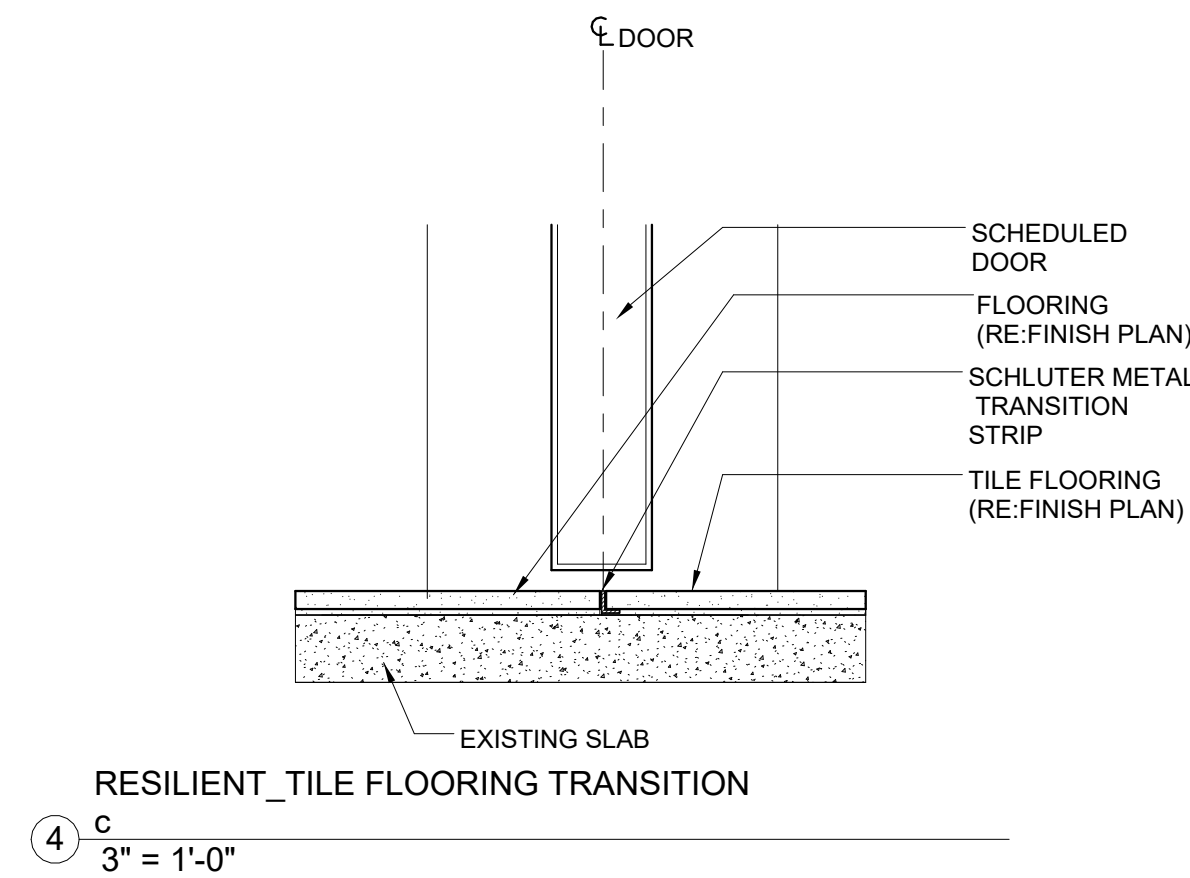
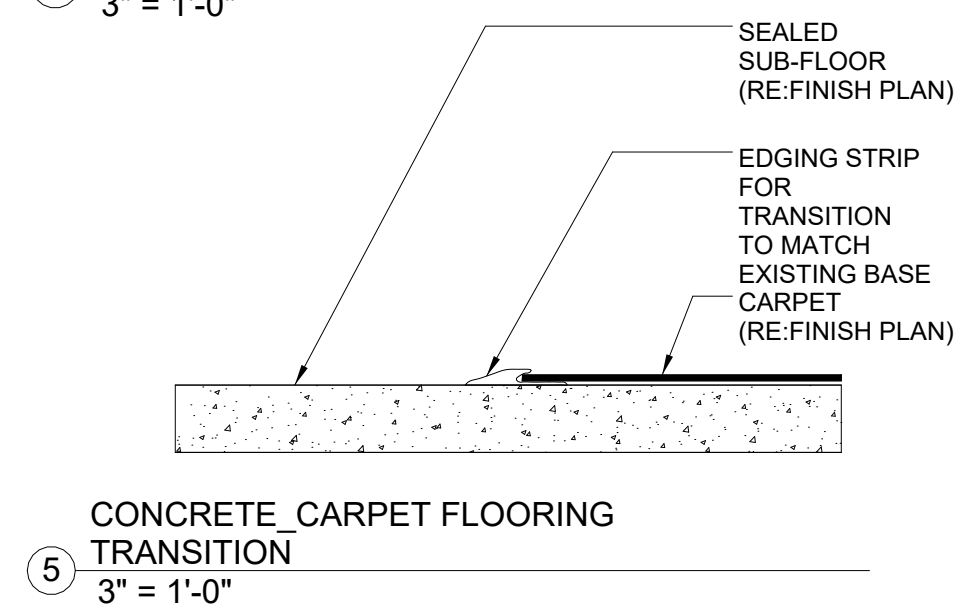
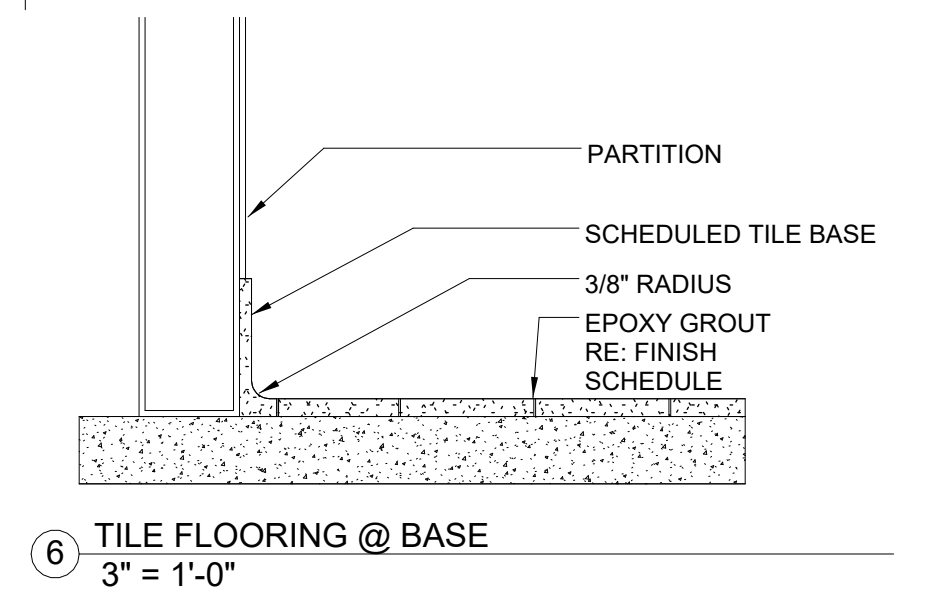
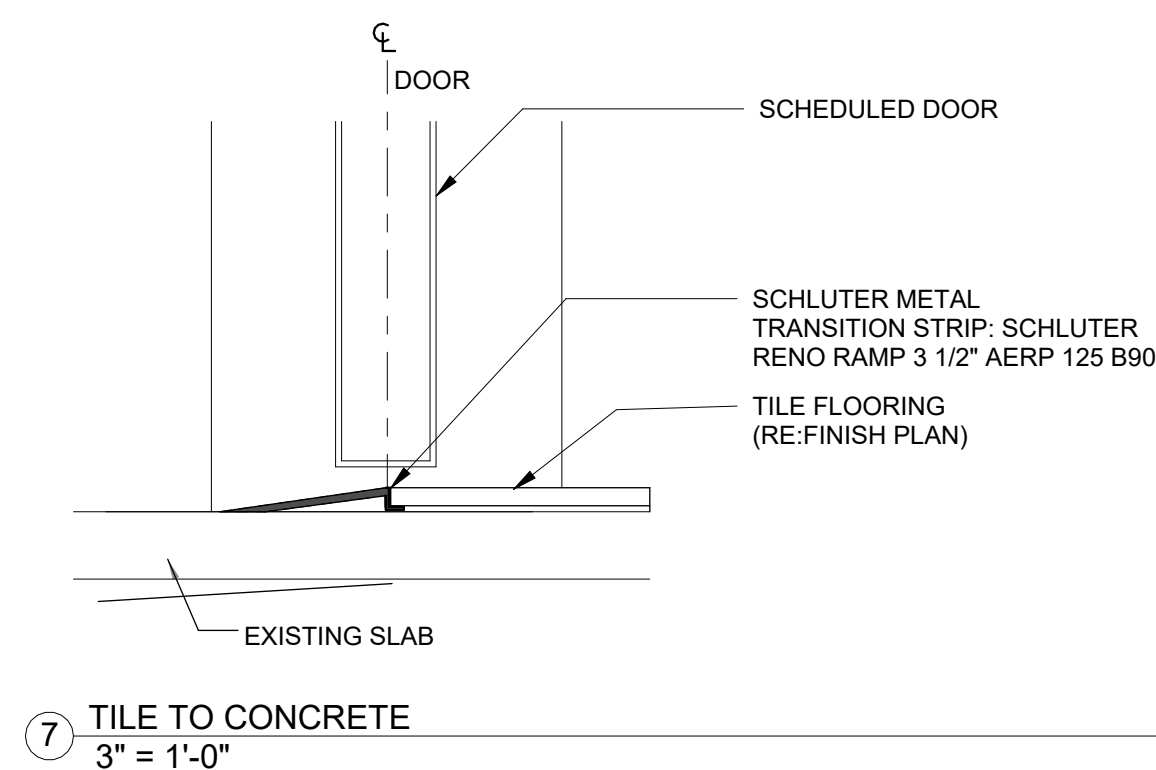
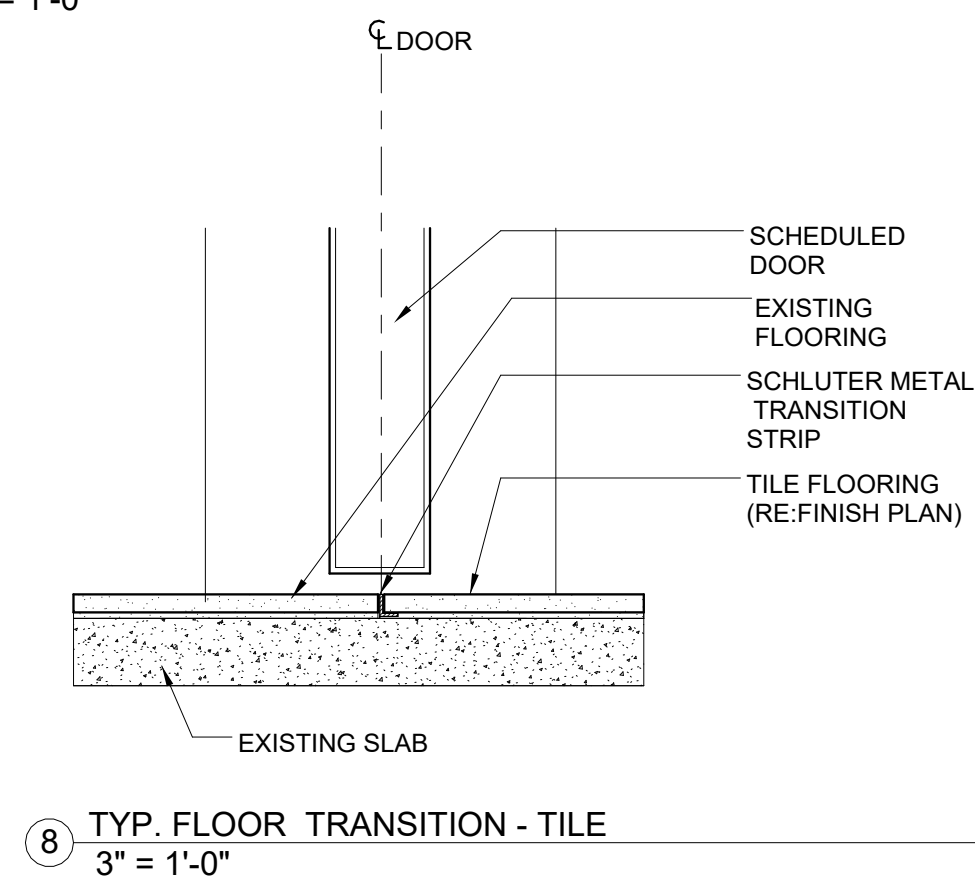
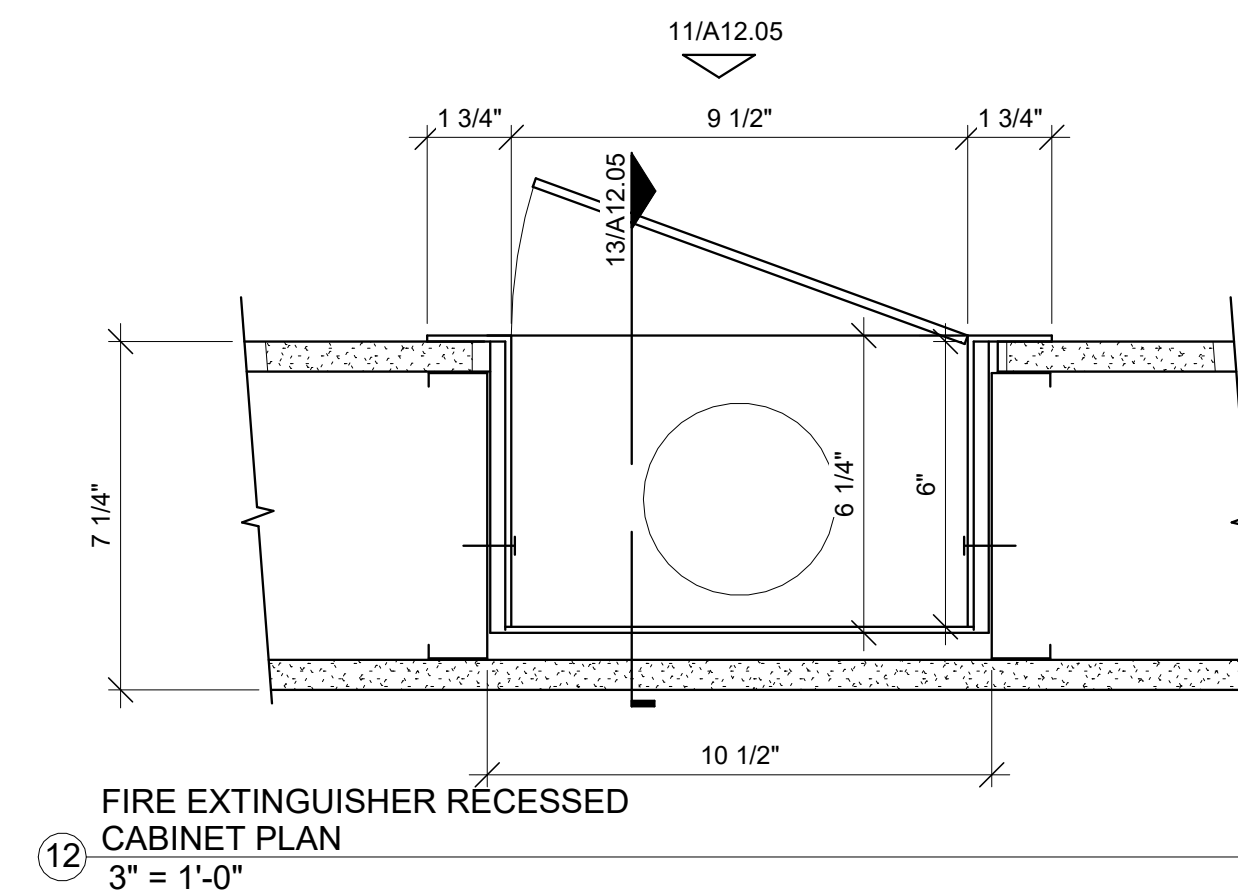
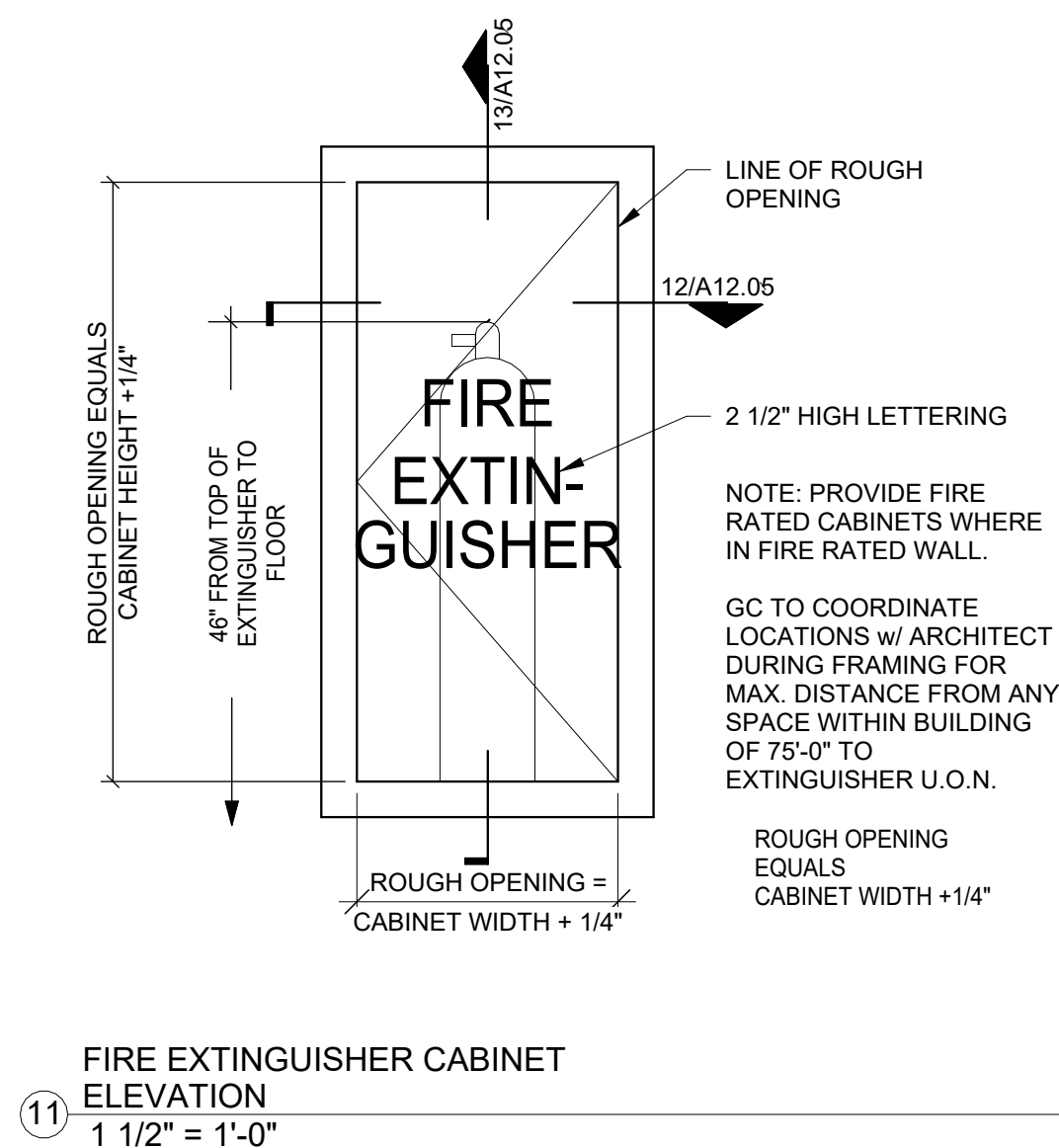
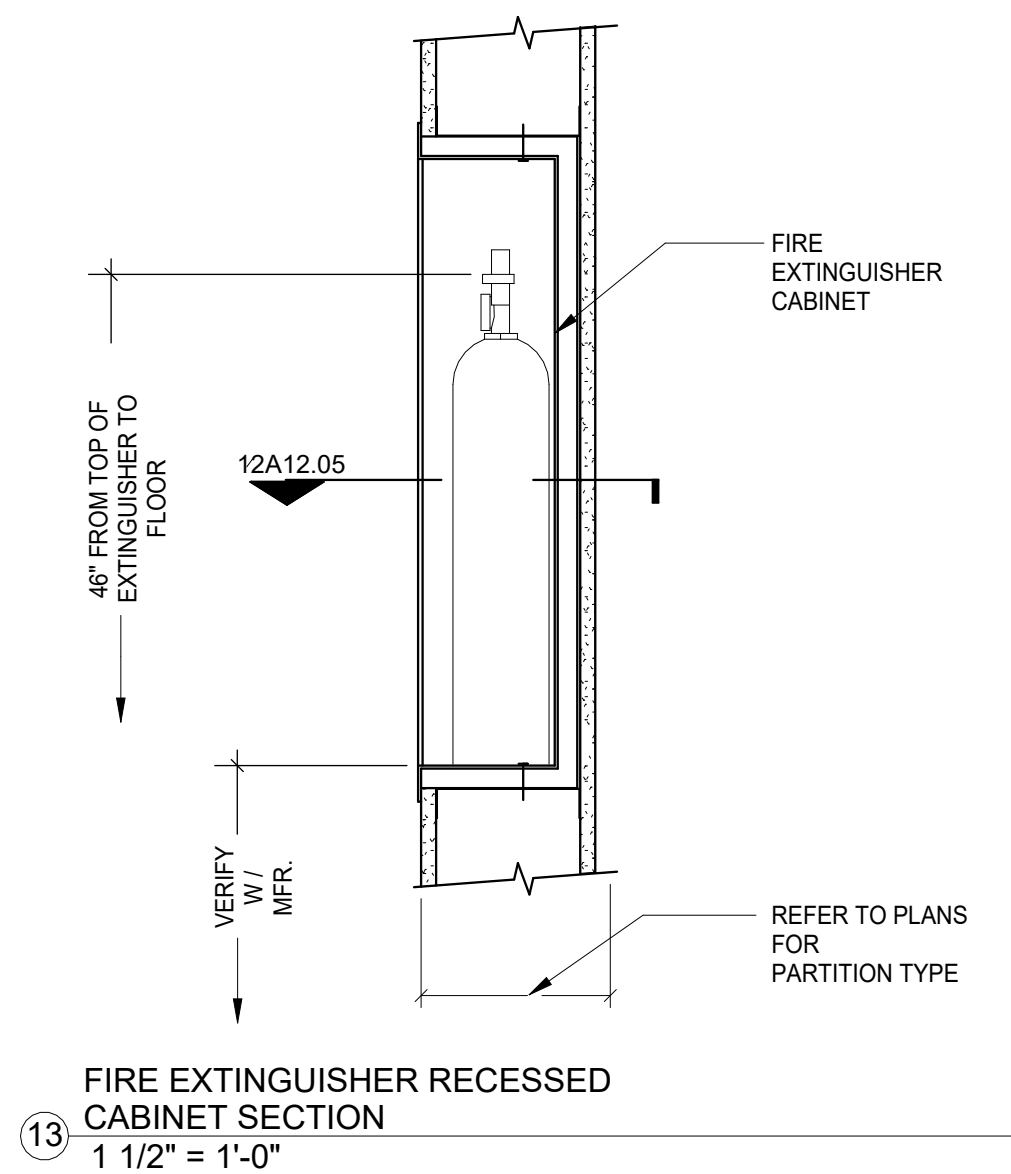
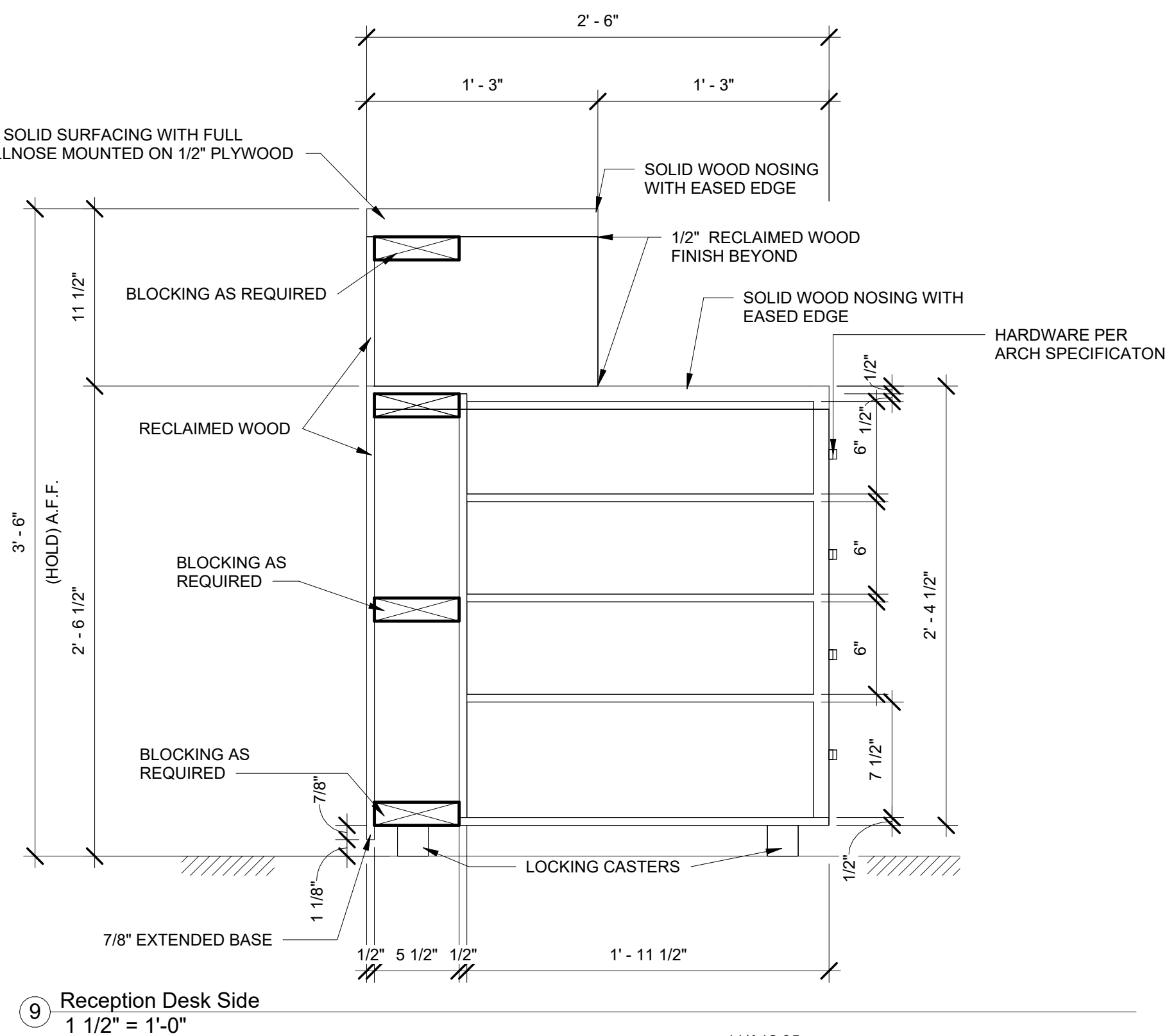
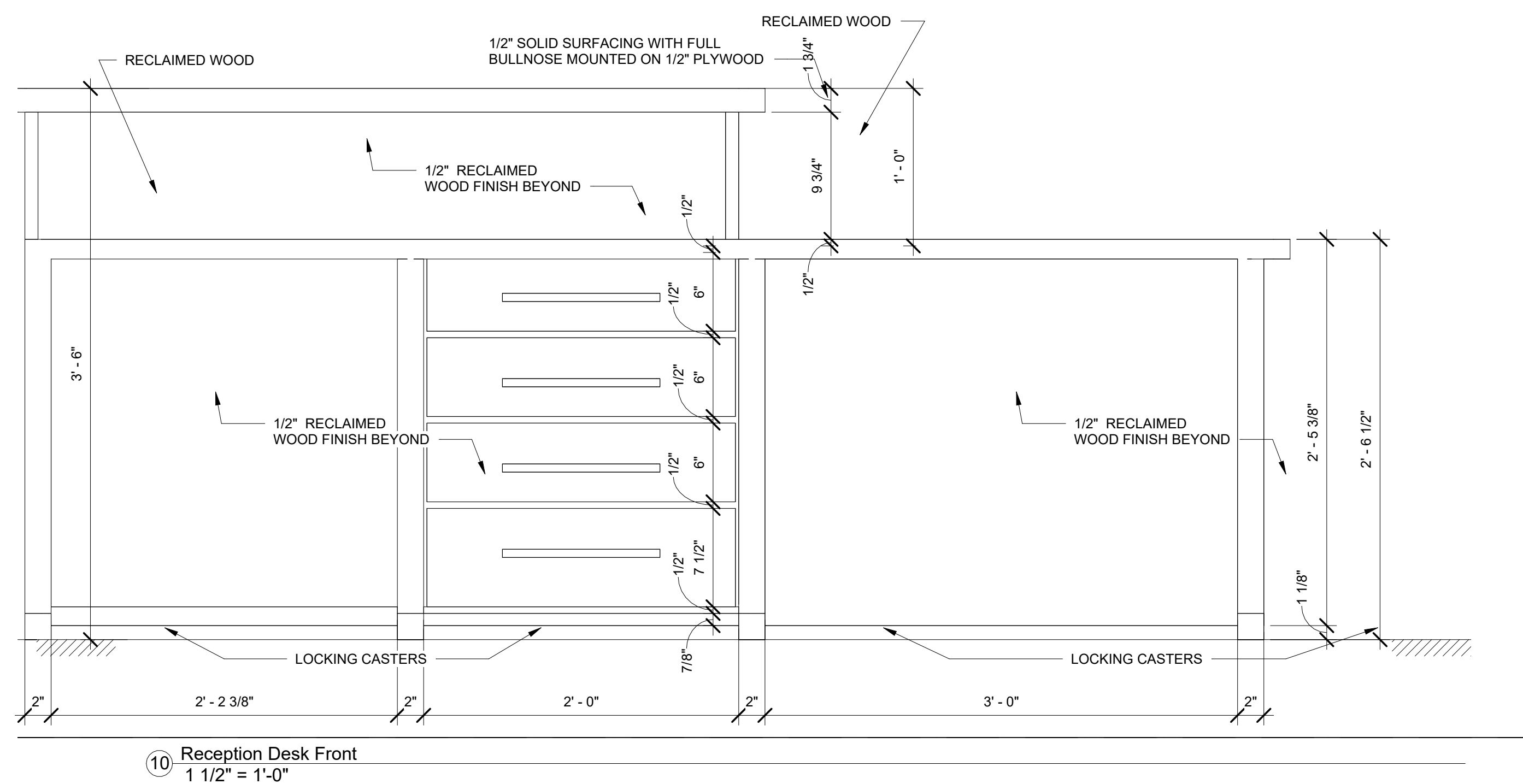
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Interior Elevations

DRAWN BY JRS	SHEET A11.02
DATE 8/01/2022	REV. 
SCALE @ 24"x36" 3/8" = 1'-0"	PROJECT NUMBER 21-4840

8/20/2022 3:04:13 PM

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EQUIPMENT LIST		
100 SERIES:	APPLIANCES	
NOTE: APPLIANCES LISTED (NIC) SHALL BE FURNISHED AND INSTALLED BY THE OWNER. ITEMS LISTED (EXISTING) ARE CURRENTLY LOCATED IN EXISTING FACILITY AND REQUIRE RELOCATION BY CONTRACTOR TO NEW, SPECIFIED AREAS; RE: PLANS AND ELEVATIONS. ALL OTHER ITEMS ARE TO BE FURNISHED NEW BY THE CONTRACTOR.		
101	NOT USED	
102	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH: PLUMBING:	DISHWASHER GAGGENAU DF4607M 32.5" H X 24" W X 24" D 1,400 W, 12 A, 120 V / 60 Hz STAINLESS STEEL PROVIDE WITH FITTINGS AND ACCESSORIES PER MEP SPECIFICATIONS. PROVIDE DRAIN AND VENT LINES, TRAPS, ETC. AS REQUIRED FOR FULL OPERATIONS
103	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH: PLUMBING:	PREP ROOM REFRIGERATOR (EXISTING) WHIRLPOOL WRS 588FHB 35 1/2"W X 34 7/8"D X 68 7/8"H 15VAC/60 HZ SINGLE PHASE 15 AMP OED DEDICATED OUTLET, NEMAS-15P PLUG BLACK GC TO PROVIDE WATER LINE WITH CUT-OFF VALVE
104	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH:	MICROWAVE GE PEST227SLSS 24 1/4"X 14"X 19 8"D 120V/60 HZ STAINLESS STEEL
105	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH:	RANGE ZLINE R4A8 48" W X 29" (WITH HANDLE) 36" 220V STAINLESS STEEL
106	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH:	RANGEOOD ZLINE KL2-48 48" W X 24" D X H VARIABLE 110V STAINLESS STEEL TO BE INSTALLED WITH 111 BELOW.
107	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH:	REFRIGERATOR- KITCHEN SAMSUNG Model:RS22T5201SR/AK SKU S397585 70 1/16" H X 35 7/8" W X 28 5/8" D 120V PER UNIT STAINLESS STEEL PROVIDE WATER AND POWER PER MEP AND MANUFACTURERS SPECIFICATION.
108	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH:	APARTMENT REFRIGERATOR HAIER HAIOTG21SW 59-27/50 in. H x 23-3/5 in. W x 25-1/5 in. D 115 V 20 AMPS STAINLESS STEEL
109	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH:	APARTMENT RANGE EXISTING RANGE TO BE RELOCATED HERE. 240/208 V 40 AMPS
110	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH:	APARTMENT OVER THE RANGE MICROWAVE HAIER HMV1472BHS 23 5/56" W X 16 3/16" D 17 1/8" H 120V 15 AMPS STAINLESS STEEL. COORDINATE VENTING TO EXTERIOR
111	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH: CONTACT:	KITCHEN SAFE FIRE SUPPRESSION SYSTEM KITCHEN SAFE KITCHENSAFE UL300A COOK-TOP FIRE SUPPRESSION SEE SPECIFICATIONS TOM COFFIN, SALES AND CERTIFICATION (M) 480.694.5234 WEB SITE: KITCHENSAFEUSA.NET
112	NOT USED	
113	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH:	WASHER LG WM4000HW 27" W X 30 1/4" D 39" H 120 V 10 AMPS WHITE
114	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH:	DRYER LG DLEX4000W 27" W X 30 1/4" D 39" H 240 V 30 AMPS WHITE
200 SERIES:	PLUMBING EQUIPMENT	
NOTE: ALL PLUMBING EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR. PROVIDE FINISHED WALL OFFSET, ADAPTERS, ROUGH-IN AND EXTENSION KITS, VALVES, DRAIN & VENT LINES, TRAPS, ETC. AS REQUIRED FOR FULL OPERATIONS		
201	ITEM: MANUFACTURER: MODEL#: DIMENSION: FINISH: PLUMBING: FAUCET:	ADA SELF RIMMING DOUBLE BOWL SINK 18 GA STAINLESS STEEL BOWL WITH COATING UNDERSIDE JUST MANUFACTURING DL-ADA-2037-AQR 37" X 20" X 6-1/2" STAINLESS STEEL PROVIDE WITH FAUCET FITTINGS AND ACCESSORIES PER MEP SPECIFICATIONS. SEE ITEM # xxx BELOW
202	ITEM: MANUFACTURER: MODEL#: DIMENSION: FINISH: PLUMBING: FAUCET:	SINGLE JANITOR SINK RE: MEP RE: MEP RE: MEP RE: MEP PROVIDE WITH FAUCET FITTINGS AND ACCESSORIES PER MEP SPECIFICATIONS. MEP FINISH: STANDARD OR EQUAL.
203	ITEM: MANUFACTURER: MODEL#: DIMENSION: FINISH: PLUMBING:	DRINKING FOUNTAIN RE: ELKAY RE: MEP RE: MEP RE: MEP PROVIDE WITH FAUCET FITTINGS AND ACCESSORIES PER MEP SPECIFICATIONS.
204	ITEM: MANUFACTURER: MODEL#: FINISH: FAUCET:	SINGLE UNDERCOUNTER LAVATORY VITROUS CHINA PROFLO PF1612U VITROUS CHINA, UNGLAZED RIM, WHITE SEE #205 BELOW
205	ITEM: MANUFACTURER: MODEL#: FINISH: PLUMBING:	SINGLE CONTROL LAVATORY FAUCET WITH ESCUTCHEON KOHLER K-97061-4 BLACK PROVIDE WITH FAUCET FITTINGS AND ACCESSORIES PER MEP SPECIFICATIONS. COORDINATEINSTALL WITH ESCUTCHEON PLATE
206	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH: PLUMBING:	HIGHLINE 1.28 OPF ELONGATED TWO PIECE TOILET IN WHITE WITH LEFT HAND TRIP LEVER. RESIDENTIAL AREA RESTROOMS KOHLER K3999-0 NONE WHITE PROVIDE ACCESSORIES PER MEP SPECIFICATIONS. COORD. TRIP LEVER w/ OPEN SIDE.
207	ITEM: MANUFACTURER: MODEL#: FINISH:	GRIP TIGHT CACHET TOILET SEAT KOHLER K-4636 WHITE SOLID PLASTIC, HEAVY DUTY
208	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH: PLUMBING:	ALIGN SINGLE HANDLE PULL DOWN KITCHEN FAUCET MOEN 7565BL 7.5"W X 15 5/8"H NONE MATTE BLACK PROVIDE FAUCET FITTINGS AND ACCESSORIES- TO BE INSTALLED WITH MOEN ARBOR ESCUTCHEON KIT IN MATTE BLACK PER MEP SPECIFICATIONS. PROVIDE DRAIN AND VENT LINES, TRAPS, ETC. AS REQUIRED FOR FULL OPERATIONS
209	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH: PLUMBING:	ALIGN SINGLE LEVER HANDLE PULL DOWN BAR FAUCET MOEN 5965 series 6 3/4" X 13 3/4" N/A MATTE BLACK PROVIDE ACCESSORIES PER MEP SPECIFICATIONS. PROVIDE DRAIN AND VENT LINES, TRAPS, ETC. AS REQUIRED FOR FULL OPERATIONS TO BE INSTALLED WITH 3-HOLE ESCUTCHEON 141002
210	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH: PLUMBING:	SHOWER FIXTURE SET (ADA) PURIST PRESSURE BALANCED SHOWER SYSTEM WITH SHOWER HEAD, HAND SHOWER, VALVE TRIM AND SHOWER ARM. KSS-Purist-4-RTHS-BL VARIES NONE MATTE BLACK PROVIDE ACCESSORIES PER MEP SPECIFICATIONS.
211	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH: PLUMBING:	SHOWER DRAIN KERDI-LINE KDIF4 GRK MGS D8 4" SQUARE NONE MATTE BLACK PROVIDE ACCESSORIES PER MEP SPECIFICATIONS.
212	ITEM: MANUFACTURER: MODEL#: DIMENSION: ELECTRICAL: FINISH: PLUMBING:	WALL MOUNTED ADA SINK KOHLER K-1584-4 18 5/16" W X 19 3/4" D NONE WHITE PROVIDE ACCESSORIES PER MEP SPECIFICATIONS. INSTALL WITH FAUCET 205
TA SERIES:	TOILETRY / PLUMBING ACCESSORIES	
NOTE: EQUIPMENT LISTED (NIC) SHALL BE FURNISHED AND INSTALLED BY THE OWNER UNLESS OTHERWISE NOTED RE: PLANS AND ELEVATIONS. ITEMS LISTED (EXISTING) ARE CURRENTLY LOCATED IN EXISTING FACILITY AND REQUIRE RELOCATION BY CONTRACTOR TO NEW, SPECIFIED AREAS; RE: PLANS AND ELEVATIONS. ALL OTHER ITEMS ARE TO BE FURNISHED NEW BY THE CONTRACTOR PER MANUFACTURER'S SPECIFICATIONS. COORDINATE ALL ACCESSORY LOCATIONS IN FIELD w/ ARCHITECT. COORDINATE METAL OR FIRE RETARDANT BLOCKING AS REQUIRED.		
TA-1	ITEM: MANUFACTURER: MODEL#: DIMENSION: FINISH:	STRAIGHT GRAB BAR w/ CONCEALED MOUNTING BOBRICK B-6806-36 36" SATIN FINISH STAINLESS STEEL
TA-2	ITEM: MANUFACTURER: MODEL#: DIMENSION: FINISH:	STRAIGHT GRAB BAR w/ CONCEALED MOUNTING BOBRICK B-6806-42 42" SATIN FINISH STAINLESS STEEL
TA-3	ITEM: MANUFACTURER: MODEL#: FINISH:	AUTOMATIC SOAP DISPENSER (LAVATORY MOUNT) BOBRICK B-826 BRIGHT CHROME PLASTIC
TA-4	ITEM: MANUFACTURER: MODEL#: FINISH:	TOILET TISSUE DISPENSER (SURFACE MOUNTED DOUBLE-ROLL) BOBRICK B-69997 SATIN STAINLESS STEEL FINISH
TA-5	ITEM: MANUFACTURER: MODEL#: FINISH:	RECESSED WASTE RECEPTACLE BOBRICK B-3644 SATIN STAINLESS STEEL FINISH
TA-6	ITEM: MANUFACTURER: MODEL#: FINISH:	SEAT COVER DISPENSER (SURFACE MOUNT) BOBRICK B-221 SATIN STAINLESS STEEL FINISH
TA-7	ITEM: MANUFACTURER: MODEL#: FINISH:	TOUCHLESS TOWEL DISPENSER GEORGIA - PACIFIC 59469 STAINLESS STEEL FINISH
TA-8	ITEM: MANUFACTURER: MODEL#: FINISH:	NAPKINTAMPON VENDOR BOBRICK B-37034 SATIN STAINLESS STEEL FINISH
TA-9	ITEM: MANUFACTURER: MODEL#: FINISH:	COAT HOOK (SURFACE MOUNT) BOBRICK B-6

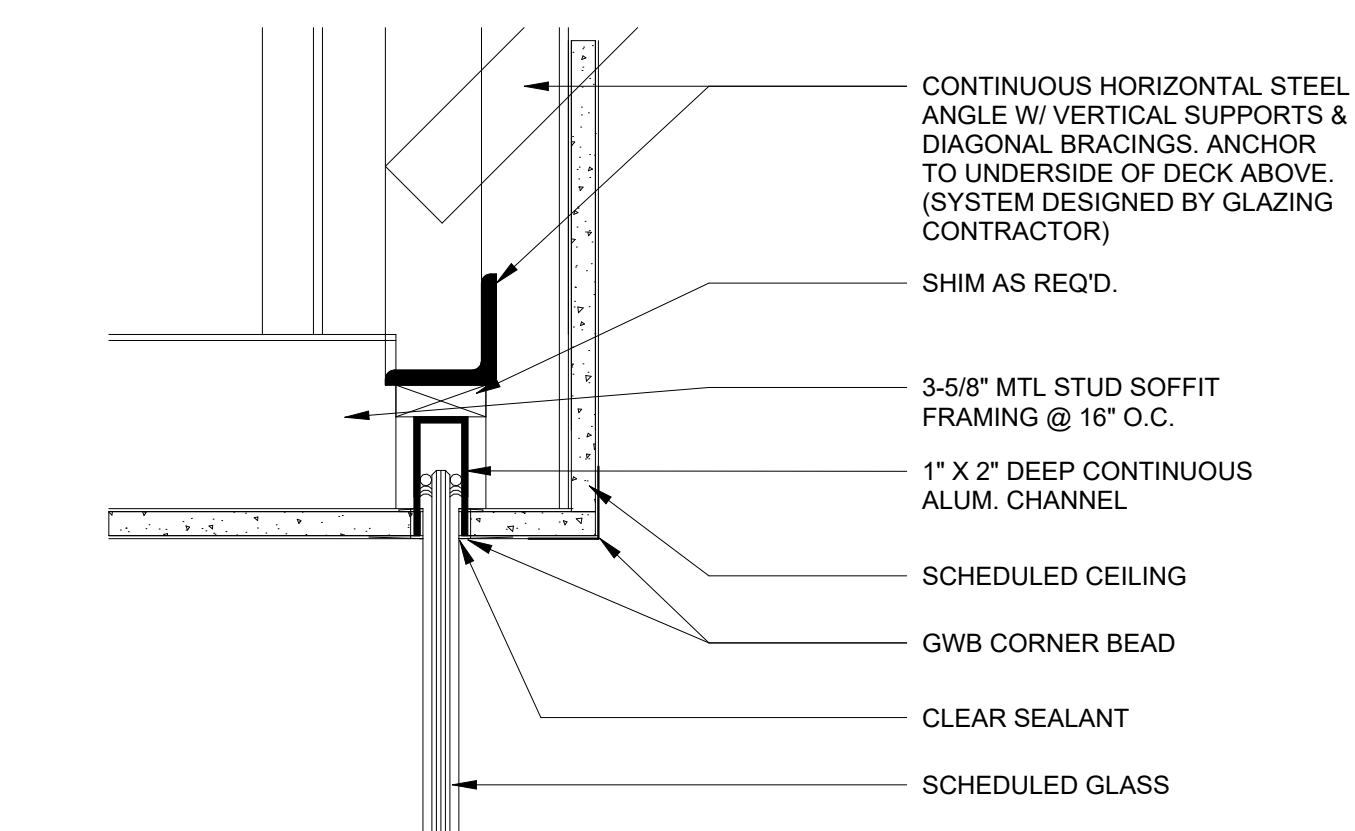
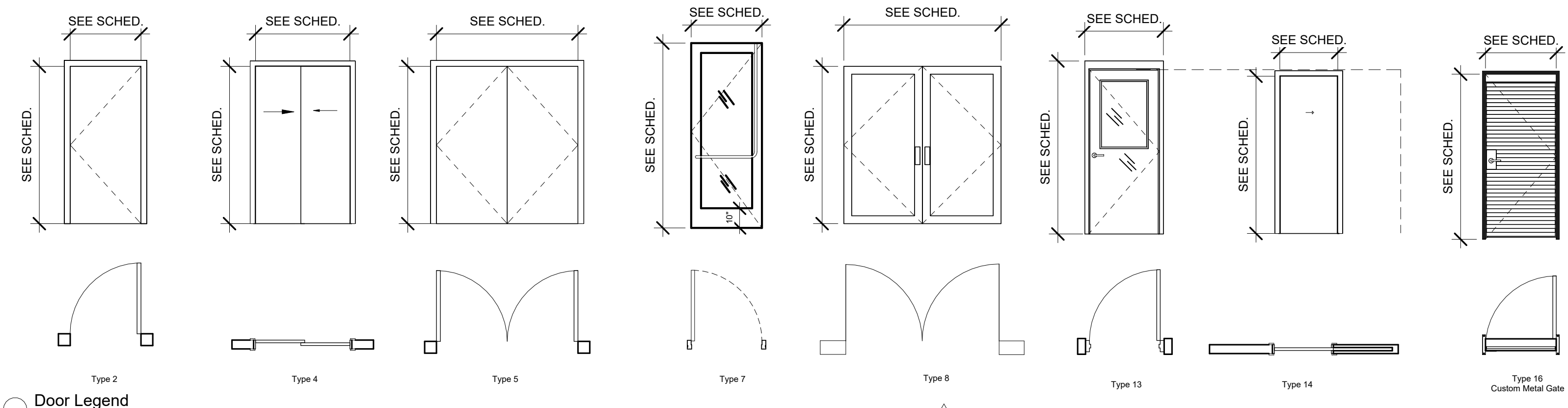
DIVISION 087100. DOOR HARDWARE

PART 1 - GENERAL

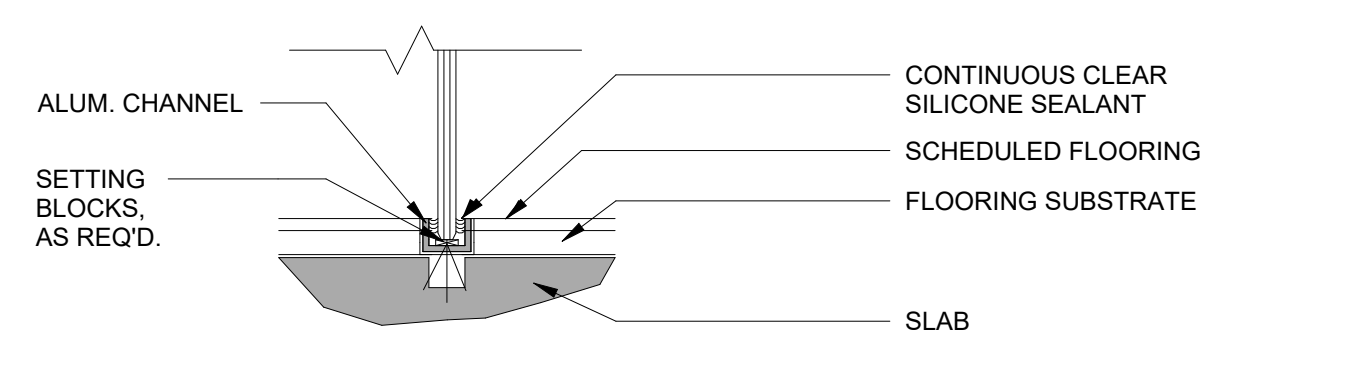
- 1.1 RELATED DOCUMENTS
- A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.
- 1.2 SUMMARY
- A. THIS SECTION INCLUDES COMMERCIAL DOOR HARDWARE FOR THE FOLLOWING:
- SWINGING DOORS.
 - SLIDING DOORS.
 - OTHER DOORS TO THE EXTENT INDICATED.
- B. DOOR HARDWARE INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, THE FOLLOWING:
- MECHANICAL DOOR HARDWARE
 - CYLINDERS SPECIFIED FOR DOORS IN OTHER SECTIONS.
- C. RELATED SECTIONS:
- DIVISION 06 SECTION "ROUGH CARPENTRY".
 - DIVISION 06 SECTION "FINISH CARPENTRY".
 - DIVISION 08 SECTION "OPERATIONS AND MAINTENANCE".
 - DIVISION 08 SECTION "HOLLOW METAL DOORS AND FRAMES".
 - DIVISION 08 SECTION "FLUSH WOOD DOORS".
 - DIVISION 08 SECTION "ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS".
- D. CODES AND REFERENCES: COMPLY WITH THE VERSION YEAR ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
- ANSI A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.
 - ICC/IBC - INTERNATIONAL BUILDING CODE.
 - NFPA 70 - NATIONAL ELECTRICAL CODE.
 - NFPA 80 - FIRE DOORS AND WINDOWS.
 - NFPA 101 - LIFE SAFETY CODE.
 - NFPA 105 - INSTALLATION OF SMOKE DOOR ASSEMBLIES.
 - STATE BUILDING CODES, LOCAL AMENDMENTS.
- E. STANDARDS: ALL HARDWARE SPECIFIED HEREIN SHALL COMPLY WITH THE FOLLOWING INDUSTRY STANDARDS AS APPLICABLE. ANY UNDATED REFERENCE TO A STANDARD SHALL BE INTERPRETED AS REFERRING TO THE LATEST EDITION OF THAT STANDARD.
- ANSIBHMA CERTIFIED PRODUCT STANDARDS - A156 SERIES.
 - UL100 - POSITIVE-PRESSURE FIRE TESTS OF DOOR ASSEMBLIES.
 - ANSIUL 294 - ACCESS CONTROL SYSTEM UNITS.
 - UL 305 - PANIC HARDWARE.
 - ANSIUL 437 - KEY LOCKS.
- 1.3 SUBMITTALS
- A. PRODUCT DATA: MANUFACTURER'S PRODUCT DATA SHEETS INCLUDING INSTALLATION DETAILS, MATERIAL DESCRIPTIONS, DIMENSIONS OF INDIVIDUAL COMPONENTS AND PROFILES, OPERATIONAL DESCRIPTIONS AND FINISHES.
- B. DOOR HARDWARE SCHEDULE: PREPARED BY OR UNDER THE SUPERVISION OF SUPPLIER, DETAILING FABRICATION AND ASSEMBLY OF DOOR HARDWARE, AS WELL AS PROCEDURES AND DIAGRAMS. COORDINATE THE FINAL DOOR HARDWARE SCHEDULE WITH DOORS, FRAMES, AND RELATED WORK TO ENSURE PROPER SIZE, THICKNESS, HAND, FUNCTION, AND FINISH OF DOOR HARDWARE.
- FORMAT: COMPLY WITH SCHEDULING SEQUENCE AND VERTICAL FORMAT IN DHS "SEQUENCE AND FORMAT FOR THE HARDWARE SCHEDULE."
 - ORGANIZATION: ORGANIZE THE DOOR HARDWARE SCHEDULE INTO DOOR HARDWARE SETS INDICATING COMPLETE DESIGNATIONS OF EVERY ITEM REQUIRED FOR EACH DOOR OR OPENING. ORGANIZE DOOR HARDWARE SETS IN SAME ORDER AS IN THE DOOR HARDWARE SETS AT THE END OF PART 3. SUBMITTALS THAT DO NOT FOLLOW THE SAME FORMAT AND ORDER AS THE DOOR HARDWARE SETS WILL BE REJECTED AND SUBJECT TO RESUBMISSION.
 - CONTENT: INCLUDE THE FOLLOWING INFORMATION:
 - TYPE, STYLE, FUNCTION, SIZE, LABEL, HAND, AND FINISH OF EACH DOOR HARDWARE ITEM.
 - MANUFACTURER OF EACH ITEM.
 - FASTENINGS AND OTHER PERTINENT INFORMATION.
 - LOCATION OF DOOR HARDWARE SET, CROSS-REFERENCED TO DRAWINGS, BOTH ON FLOOR PLANS AND IN DOOR AND FRAME SCHEDULE.
 - EXPLANATION OF ABBREVIATIONS, SYMBOLS, AND CODES CONTAINED IN SCHEDULE.
 - MOUNTING LOCATIONS FOR DOOR HARDWARE.
 - DOOR AND FRAME SIZES AND MATERIALS.
 - WARRANTY INFORMATION FOR EACH PRODUCT.
 - SUBMITTAL SEQUENCE: SUBMIT THE FINAL DOOR HARDWARE SCHEDULE AT EARLIEST POSSIBLE DATE, PARTICULARLY WHERE APPROVAL OF THE DOOR HARDWARE SCHEDULE MUST PRECEDE FABRICATION OF OTHER WORK THAT IS CRITICAL IN THE PROJECT CONSTRUCTION SCHEDULE. INCLUDE PRODUCT DATA, SAMPLES, SHOP DRAWINGS OF OTHER WORK AFFECTED BY DOOR HARDWARE, AND OTHER INFORMATION ESSENTIAL TO THE COORDINATED REVIEW OF THE DOOR HARDWARE SCHEDULE.
- C. KEYING SCHEDULE: AFTER A KEYING MEETING WITH THE OWNER HAS TAKEN PLACE, PREPARE A SEPARATE KEYING SCHEDULE DETAILING FINAL INSTRUCTIONS. SUBMIT THE KEYING SCHEDULE IN ELECTRONIC FORMAT. INCLUDE KEYING SYSTEM EXPLANATION, DOOR NUMBERS, KEY SET SYMBOLS, HARDWARE SET NUMBERS AND SPECIAL INSTRUCTIONS. OWNER MUST APPROVE SUBMITTED KEYING SCHEDULE PRIOR TO THE ORDERING OF PERMANENT CYLINDER COPIES.
- D. OPERATING AND MAINTENANCE MANUALS: PROVIDE MANUFACTURER'S OPERATING AND MAINTENANCE MANUALS FOR EACH ITEM COMPRISING THE COMPLETE DOOR HARDWARE INSTALLATION IN QUANTITY AS REQUIRED IN DIVISION 01, CLOSEOUT PROCEDURES.
- 1.4 QUALITY ASSURANCE
- A. MANUFACTURERS QUALIFICATIONS: ENGAGE QUALIFIED MANUFACTURERS WITH A MINIMUM 5 YEARS OF DOCUMENTED EXPERIENCE IN PRODUCING HARDWARE AND EQUIPMENT SIMILAR TO THAT INDICATED FOR THIS PROJECT AND THAT HAVE A PROVEN RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.
- B. CERTIFIED PRODUCTS: WHERE SPECIFIED, PRODUCTS MUST MAINTAIN A CURRENT LISTING IN THE BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BHMA) CERTIFIED PRODUCTS DIRECTORY (CPD).
- C. INSTALLER QUALIFICATIONS: A MINIMUM 3 YEARS DOCUMENTED EXPERIENCE INSTALLING BOTH STANDARD AND ELECTRIFIED DOOR HARDWARE SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT AND WHOSE WORK HAS RESULTED IN CONSTRUCTION WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.
- D. DOOR HARDWARE SUPPLIER QUALIFICATIONS: EXPERIENCED COMMERCIAL DOOR HARDWARE DISTRIBUTORS WITH A MINIMUM 5 YEARS DOCUMENTED EXPERIENCE SUPPLYING BOTH MECHANICAL AND ELECTROMECHANICAL HARDWARE INSTALLATIONS COMPARABLE IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT. SUPPLIER RECOGNIZED AS A FACTORY DIRECT DISTRIBUTOR BY THE MANUFACTURERS OF THE PRIMARY MATERIALS WITH A WAREHOUSING FACILITY IN PROJECTS VICINITY. SUPPLIER TO HAVE ON STAFF A CERTIFIED ARCHITECTURAL HARDWARE CONSULTANT (AHC) AVAILABLE DURING THE COURSE OF THE WORK TO CONSULT WITH CONTRACTOR, ARCHITECT, AND OWNER CONCERNING BOTH STANDARD AND ELECTROMECHANICAL DOOR HARDWARE AND KEYING.
- E. SOURCE LIMITATIONS: OBTAIN EACH TYPE AND VARIETY OF DOOR HARDWARE SPECIFIED IN THIS SECTION FROM A SINGLE SOURCE UNLESS OTHERWISE INDICATED.
- ELECTRIFIED MODIFICATIONS OR ENHANCEMENTS MADE TO A SOURCE MANUFACTURER'S PRODUCT LINE BY A SECONDARY OR THIRD PARTY SOURCE WILL NOT BE ACCEPTED.
- F. EACH UNIT TO BEAR THIRD PARTY PERMANENT LABEL DEMONSTRATING COMPLIANCE WITH THE REFERENCED STANDARDS.
- G. KEYING CONFERENCE: CONDUCT CONFERENCE TO COMPLY WITH REQUIREMENTS IN DIVISION 01 SECTION "PROJECT MEETINGS." KEYING CONFERENCE TO INCORPORATE THE FOLLOWING CRITERIA INTO THE FINAL KEYING SCHEDULE DOCUMENT.
- FUNCTION OF BUILDING, PURPOSE OF EACH AREA AND DEGREE OF SECURITY REQUIRED.
 - PLANS FOR EXISTING AND FUTURE KEY SYSTEM EXPANSION.
 - REQUIREMENTS FOR KEY CONTROL, STORAGE AND SOFTWARE.
 - INSTALLATION OF PERMANENT KEYS, CYLINDER CORES AND SOFTWARE.
 - ADDRESS AND REQUIREMENTS FOR DELIVERY OF KEYS.
- H. PRE-SUBMITTAL CONFERENCE: CONDUCT COORDINATION CONFERENCE IN COMPLIANCE WITH REQUIREMENTS DIVISION 01 SECTION "PROJECT MEETINGS" WITH ATTENDANCE BY REPRESENTATIVES OF SUPPLIER(S), INSTALLER(S), AND CONTRACTOR(S) TO REVIEW PROPER METHODS AND THE PROCEDURES FOR RECEIVING, HANDLING, AND INSTALLING DOOR HARDWARE.
- PRIOR TO INSTALLATION OF DOOR HARDWARE, CONDUCT A PROJECT SPECIFIC TRAINING MEETING TO INSTRUCT THE INSTALLING CONTRACTOR'S PERSONNEL ON THE PROPER INSTALLATION AND ADJUSTMENT OF THEIR RESPECTIVE PRODUCTS. PRODUCT TRAINING TO BE ATTENDED BY INSTALLERS OF DOOR HARDWARE (INCLUDING ELECTROMECHANICAL HARDWARE) FOR ALUMINUM, HOLLOW METAL, AND WOOD DOORS. TRAINING WILL INCLUDE: THE USE OF INSTALLATION MANUALS, HARDWARE SCHEDULES, TEMPLATES AND PHYSICAL PRODUCT SAMPLES AS REQUIRED.
 - INSPECT AND DISCUSS ELECTRICAL ROUGH-IN, POWER SUPPLY CONNECTIONS, AND OTHER PREPARATORY WORK PERFORMED BY OTHER TRADES.
 - REVIEW SEQUENCE OF OPERATION NARRATIVES FOR EACH UNIQUE ACCESS CONTROLLED OPENING. REVIEW AND FINALIZE CONSTRUCTION SCHEDULE AND VERIFY AVAILABILITY OF MATERIALS.
 - REVIEW THE REQUIRED INSPECTING, TESTING, COMMISSIONING, AND DEMONSTRATION PROCEDURES.
- I. AT COMPLETION OF INSTALLATION, PROVIDE WRITTEN DOCUMENTATION THAT COMPONENTS WERE APPLIED TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS AND ACCORDING TO APPROVED SCHEDULE.
- 1.5 DELIVERY, STORAGE, AND HANDLING
- A. INVENTORY DOOR HARDWARE ON RECEIPT AND PROVIDE SECURE LOCK-UP AND SHELVING FOR DOOR HARDWARE DELIVERED TO PROJECT SITE. DO NOT STORE ELECTRONIC ACCESS CONTROL HARDWARE, SOFTWARE OR ACCESSORIES AT PROJECT SITE WITHOUT PRIOR AUTHORIZATION.
- B. TAG EACH ITEM OR PACKAGE SEPARATELY WITH IDENTIFICATION RELATED TO THE FINAL DOOR HARDWARE SCHEDULE, AND INCLUDE BASIC INSTALLATION INSTRUCTIONS WITH EACH ITEM OR PACKAGE.
- C. DELIVER, AS APPLICABLE, PERMANENT KEYS, CYLINDERS, CORES, ACCESS CONTROL CREDENTIALS, SOFTWARE AND RELATED ACCESSORIES DIRECTLY TO OWNER VIA REGISTERED MAIL OR OVERNIGHT PACKAGE SERVICE. INSTRUCTIONS FOR DELIVERY TO THE OWNER SHALL BE ESTABLISHED AT THE "KEYING CONFERENCE".
- 1.6 COORDINATION
- A. TEMPLATES: OBTAIN AND DISTRIBUTE TO THE PARTIES INVOLVED TEMPLATES FOR DOORS, FRAMES, AND OTHER WORK SPECIFIED TO BE FACTORY PREPARED FOR INSTALLING STANDARD AND ELECTRIFIED HARDWARE. CHECK SHOP DRAWINGS OF OTHER WORK TO CONFIRM THAT ADEQUATE PROVISIONS ARE MADE FOR LOCATING AND INSTALLING HARDWARE TO COMPLY WITH INDICATED REQUIREMENTS. (CONT. ON SHEET A1302)

- ALL NEW DOORS & DOOR HARDWARE SHALL BE COMPLIANT WITH CURRENT TAS, ADA, IBC AND CITY OF DENVER AMENDMENT CODES AND REGULATIONS.
- IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE DOOR WILL TAKE 5 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE EDGE OF THE DOOR.
- EXTERIOR DOORS TO HAVE 30 LBS. MAXIMUM OPENING FORCE.
- ALL DOUBLE DOORS TO RECEIVE ASTRAGAL TO MATCH FINISH OF DOOR.
- ALL FIRE RATED DOORS TO BE UNDERCUT NO GREATER THAN 3/8" A.F.F.
- INSTALL DOOR SILENCER STRIPS AT ALL DOOR FRAMES.
- COORDINATE WITH OWNER & INTERIOR DESIGNER FOR ADDITIONAL DETAIL, TRIM, MOLDINGS, ETC.
- PAINT ALL GLAZING FRAMES AND LOUVERS TO MATCH DOORS.
- INTERIOR SWINGING EGRESS DOORS, OTHER THAN THE FIRE DOORS, SHALL NOT EXCEED 5-POUNDS OF FORCE AT LATCH SIDE OF DOOR.
- GLAZED OPENINGS IN FIRE RATED DOORS SHALL BE LIMITED AS REQUIRED BY CODE. GLAZING MATERIALS SHALL BE QUALIFIED BY TEST IN ACCORDANCE WITH "NFPA 80" (FOR FIRE DOORS), AS APPROPRIATE FOR USE. THEY SHALL BE LABELED FOR THE REQUIRED FIRE PROTECTION RATING AND INSTALLED IN ACCORDANCE WITH THEIR LISTING.
- REFER TO DOOR TYPES FOR ADDITIONAL INFORMATION.
- ALL EXTERIOR DOORS SHALL HAVE WEATHER STRIPPING, DOOR SWEEPS, AND RAIN DRIPS.
- DOORS SHALL BE PAINTED PRIOR TO SITE ARRIVAL / INSTALLATION OF GLAZING.
- COORDINATE EXTERIOR DOOR, WINDOW AND FRAMED OPENINGS WITH OWNER.
- EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE, OR EFFORT.
- ALL FIRE RATED DOOR ASSEMBLIES SHALL HAVE FIRE RATED HARDWARE, BE SELF-CLOSING AND TIGHT FITTING WITH SMOKE AND DRAFT CONTROL GASKETS.
- SET THRESHOLDS IN FULL BED OF MASTIC.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING WITH THE TENANT & BUILDING MANAGEMENT FOR THE KEYING OF ALL TENANT LOCKS. DEFINE WITH THE TENANT THE QUANTITY OF KEYS NEEDED AND HOW ALL LOCKS SHOULD BE KEYPED. ALL KEYING COORDINATION TO BE COMPLETED WITHIN 24 HOURS OF TENANT BUILD OUT COMPLETION DATE.
- DOOR HARDWARE SHALL BE LEVER OR PUSH TYPE, MOUNTED BETWEEN 30" AND 44" AFF AND SHALL BE OPERABLE WITH A MAX EFFORT OF 8.5 LBS. OF FORCE FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS. FORCE TO OPEN ALL FIRE DOORS SHALL BE 15 LBS. MAX.
- ALLOW FOR MAXIMUM 1/2" UNDERCUT AT DOORS WHERE APPLIES.
- NEW DOORS AND FRAMES SHALL BE FINISHED TO MATCH EXISTING ON FLOOR. REPAIR/ REPLACE ALL MISSING OR DAMAGED EXISTING DOORS, FRAMES AND/OR HARDWARE AS REQUIRED.
- ALL DOOR FRAMES TO BE BUILDING STANDARD, U.N.O.
- ALL ASSEMBLY SPACES OF 50 OR MORE TO HAVE PANIC HARDWARE ON ALL DOORS IN EGRESS PATH.

1 General Door Notes
3/4" = 1'-0"



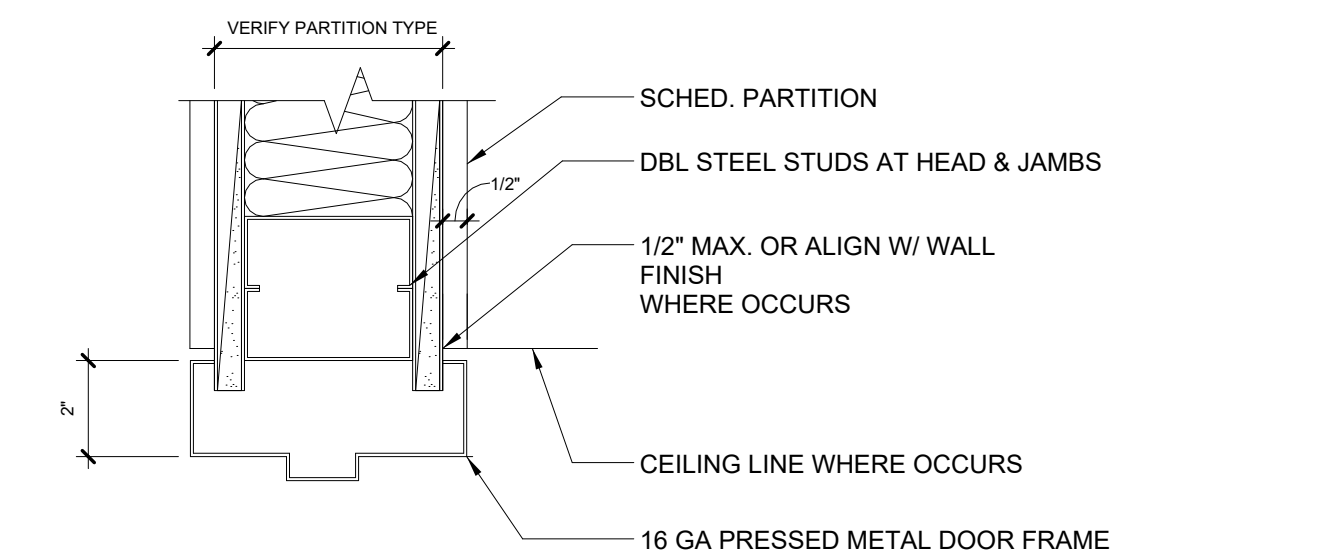
2 HEAD FRAMELESS GLASS PARTITION
3" = 1'-0"



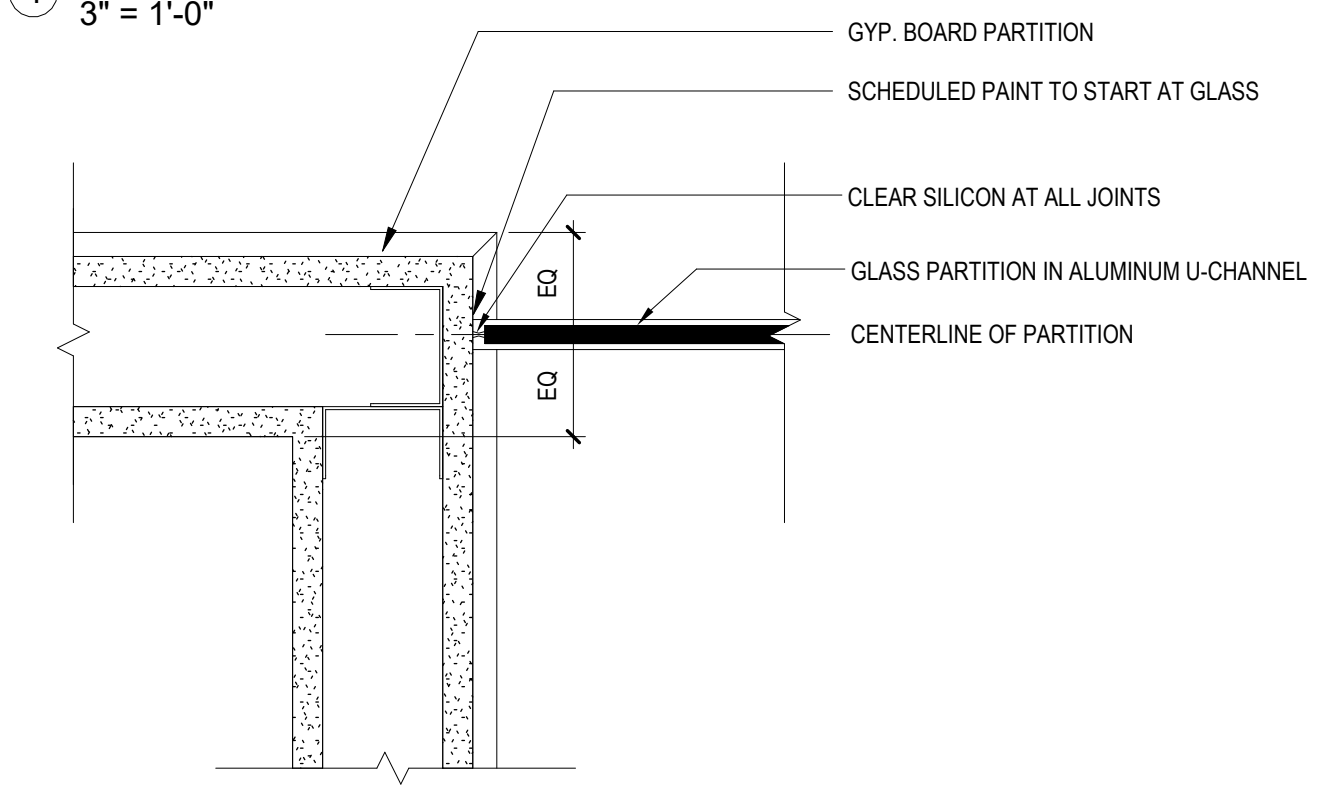
3 DETAIL @ FRAMELESS GLASS
3" = 1'-0"

DOOR SCHEDULE												
Door Number	Door Type	Door Size Width	Height	Description	Manufacturer	Model	Hardware See Schedule	Finish Door	Frame	Fire Rating	R Value	Comments
001	16	3'-0"	7'-0"	Exterior Metal Gate	TBD	Custom, See Details	26.0	Black	Black	n/a		Custom Exterior Metal Gate / Panic System
002	16	3'-0"	7'-0"	Exterior Metal Gate	TBD	Custom, See Details	26.0	Black	Black	n/a		Custom Exterior Metal Gate / Panic System
100	5	6'-0"	7'-10"	Interior Storefront Double Glass Door	Kawneer	Trifab 451T, Med Side	4.0	Black	Black	n/a	0.29	
101	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD		11.0	td	td	n/a		Reuse Existing
102	2	3'-0"	7'-0"	Interior Solid Flush Door	TBD		22.0	td	td	n/a		
103	4	4'-0"	6'-8"	Flush Wood Bi-Pass Door	TBD		25.0	td	td	n/a		
104	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD			td	td	20 mins FR		Reuse Existing Hollow Metal Frame and Solid Core 1-3/4" Doors. Interior Flush door, 20 min Fire Rating w/ seals, etc. as req'd. typ. of Sleeping Units/Apartment entry.
							18.0					
105	4	6'-0"	6'-8"	Flush Wood Double Door	TBD		20.0	td	td	n/a		
106	4	4'-0"	6'-8"	Flush Wood Bi-Pass Door	TBD		25.0	td	td	n/a		
107	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD		9.0	td	td	n/a		
108	6	3'-0"	6'-8"	Interior Double Flush Doors	TBD		20.0	td	td	n/a		
109	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD		12.0	td	td	n/a		
110	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD		16.0	td	td	n/a		
111	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD		16.0	td	td	n/a		
112	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD		16.0	td	td	n/a		
113	6	3'-0"	7'-10"	Interior Double Flush Doors - Passage	TBD		23.0	td	td	n/a		
116	7	3'-0"	7'-10"	Exterior Storefront Glass Door	Kawneer	Trifab 451T, Med Side	3.0	Black	Black	n/a	0.29	Ext. door, weatherstripping, seals / Panic System
117	7	3'-0"	7'-10"	Exterior Storefront Glass Door	Kawneer	Trifab 451T, Med Side	3.0	Black	Black	n/a	0.29	Ext. door, weatherstripping, seals / Panic System
118	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD		9.0	td	td	n/a		
122	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD		12.0	td	td	n/a		
123	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD			td	td	20 mins FR		Reuse Existing Hollow Metal Frame and Solid Core 1-3/4" Doors.
124	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD		18.0	td	td	20 mins FR		Reuse Existing Hollow Metal Frame and Solid Core 1-3/4" Doors.
							8.0					
126	2	2'-6"	6'-8"	Interior Solid Flush Door	TBD		17.0	td	td	n/a		
127	4	4'-0"	6'-8"	Flush Wood Bi-Pass Door	TBD		25.0	td	td	n/a		
131	2	2'-6"	6'-8"	Full Glass Door	TBD			td	td	n/a		Coord. Hardware w/ Glass Installer
132	8	6'-0"	7'-0"	Exterior Storefront Double Glass Door	TBD		1.0	td	td	n/a		Ext. door, weatherstripping, seals / Panic System
200	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD			td	td	20 mins FR		Reuse Existing Hollow Metal Frame and Solid Core 1-3/4" Doors. Relocate as Required
							18.0					
201	4	6'-0"	6'-8"	Flush Wood Bi-Pass Door	TBD		26.0	td	td	n/a		
202	4	6'-0"	6'-8"	Flush Wood Bi-Pass Door	TBD		25.0	td	td	n/a		
203	4	4'-0"	6'-8"	Flush Wood Bi-Pass Door	TBD		25.0	td	td	n/a		
204	2	2'-6"	6'-8"	Interior Solid Flush Door	TBD		16.0	td	td	n/a		
205	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD		14.0	td	td	n/a		
206	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD		19.0	td	td	20 mins FR		
207	13	3'-0"	6'-8"	Exterior Half Lite Door	TBD		6.0	Black	Black	n/a	0.30	Ext. door, weatherstripping, seals, drip edge, threshold
208	14	2'-6"	6'-8"	Interior Flush Pocket Door	TBD		24.0	td	td	n/a		
209	4	4'-0"	6'-8"	Flush Wood Bi-Pass Door	TBD		25.0	td	td	n/a		
210	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD		15.0	td	td	n/a		
211	4	6'-0"	6'-8"	Flush Wood Bi-Pass Door	TBD		25.0	td	td	n/a		
212	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD			td	td	20 mins FR		Reuse Existing Hollow Metal Frame and Solid Core 1-3/4" Doors. Relocate as Required
							18.0					
213	2	3'-0"	6'-8"	Interior Solid Flush Door	TBD			td	td	20 mins FR		Reuse Existing Hollow Metal Frame and Solid Core 1-3/4" Doors. Relocate as Required
							18.0					

- Notes:
- Door styles, finishes, and hardware, TBD.
 - Exterior doors shall receive weatherstripping and seals. Coord. Color and
 - Confirm door style and options with owner prior to ordering.
 - Confirm with owner color of doors.
 - All locks shall be mortise cylinder.
 - Cylinder type shall match existing. Coordinate w/ Owner
 - Glass Door Panic System: CRU/Burncraft Glass Door H-100-B Panic Device
 - Interior flush doors to be painted white - coordinate w/ finish schedule.
 - Reuse existing solid core doors and metal frames where possible. GC to field coordinate
 - Where 20 min door/frame called out, hollow metal frame and solid core wood door w/ min 1-3/4" thickness may be used.



4 TYP. HEAD / JAMB
3" = 1'-0"



5 GLASS PARTITION @ CORNER WALL
3" = 1'-0"

DATE	6/29/22
DESCRIPTION	
NO.	5
City Comments	



KADAMPA
MEDITATION CENTER
4840 W 28th Ave
Denver, CO 80212
Building Renovation

PROFESSIONAL SEAL

8/01/2022
DO NOT SCALE DRAWINGS
CONTRACTOR SHALL VERIFY ALL
CONDITIONS AND DIMENSIONS
AT THE JOB SITE AND NOTIFY
JUNIPER ROAD STUDIOS LLC.
OF ANY
DIMENSIONAL ERRORS, OMISSIONS,
OR DISCREPANCIES BEFORE
BEGINNING OR FABRICATING
ANY WORK.

Door Schedule &
Hardware Sched.

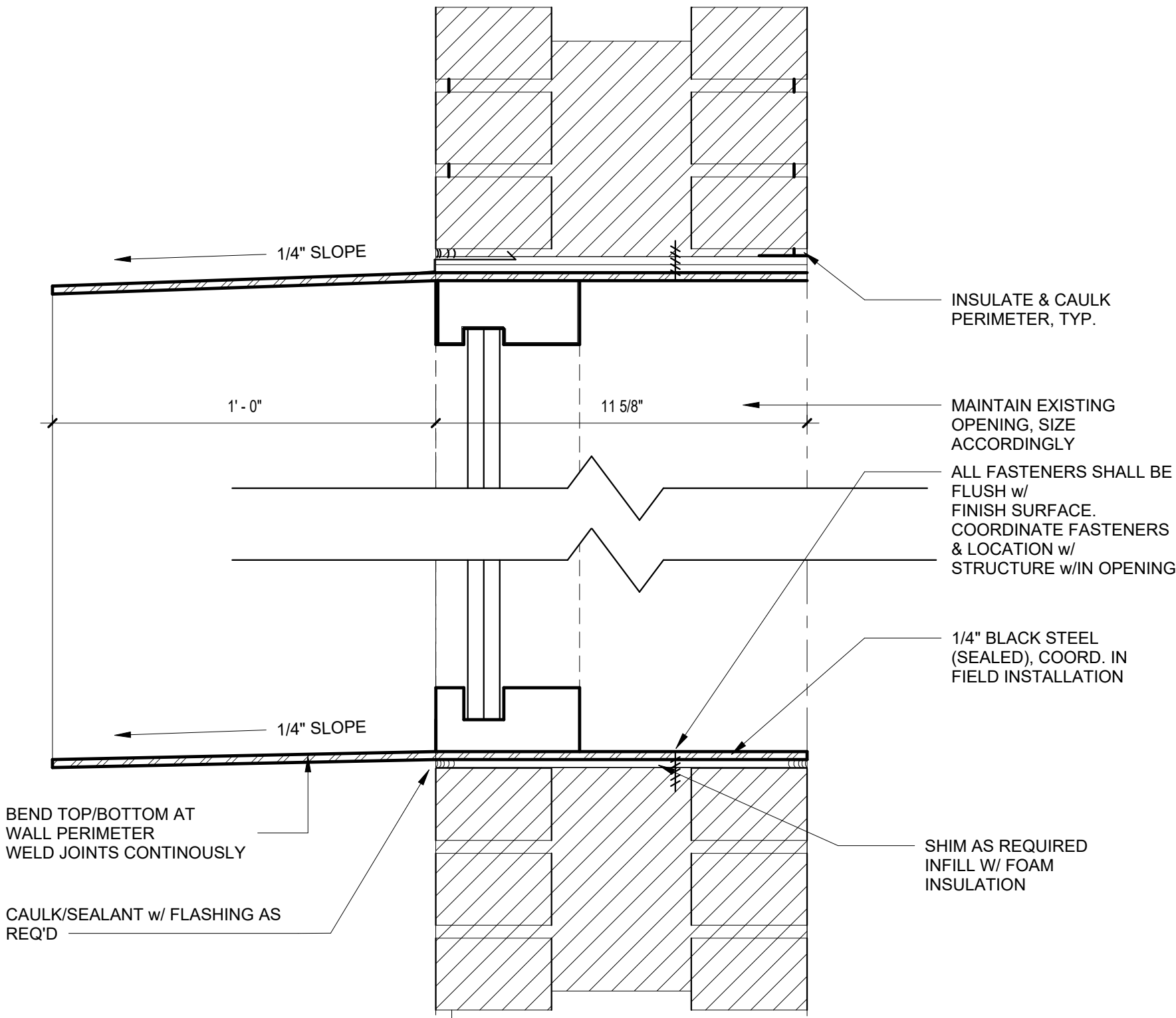
DRAWN BY	JRS	SHEET	A13.01
DATE	8/01/2022	REV.	5
SCALE @ 24"x36"	As indicated	PROJECT NUMBER	21-4840

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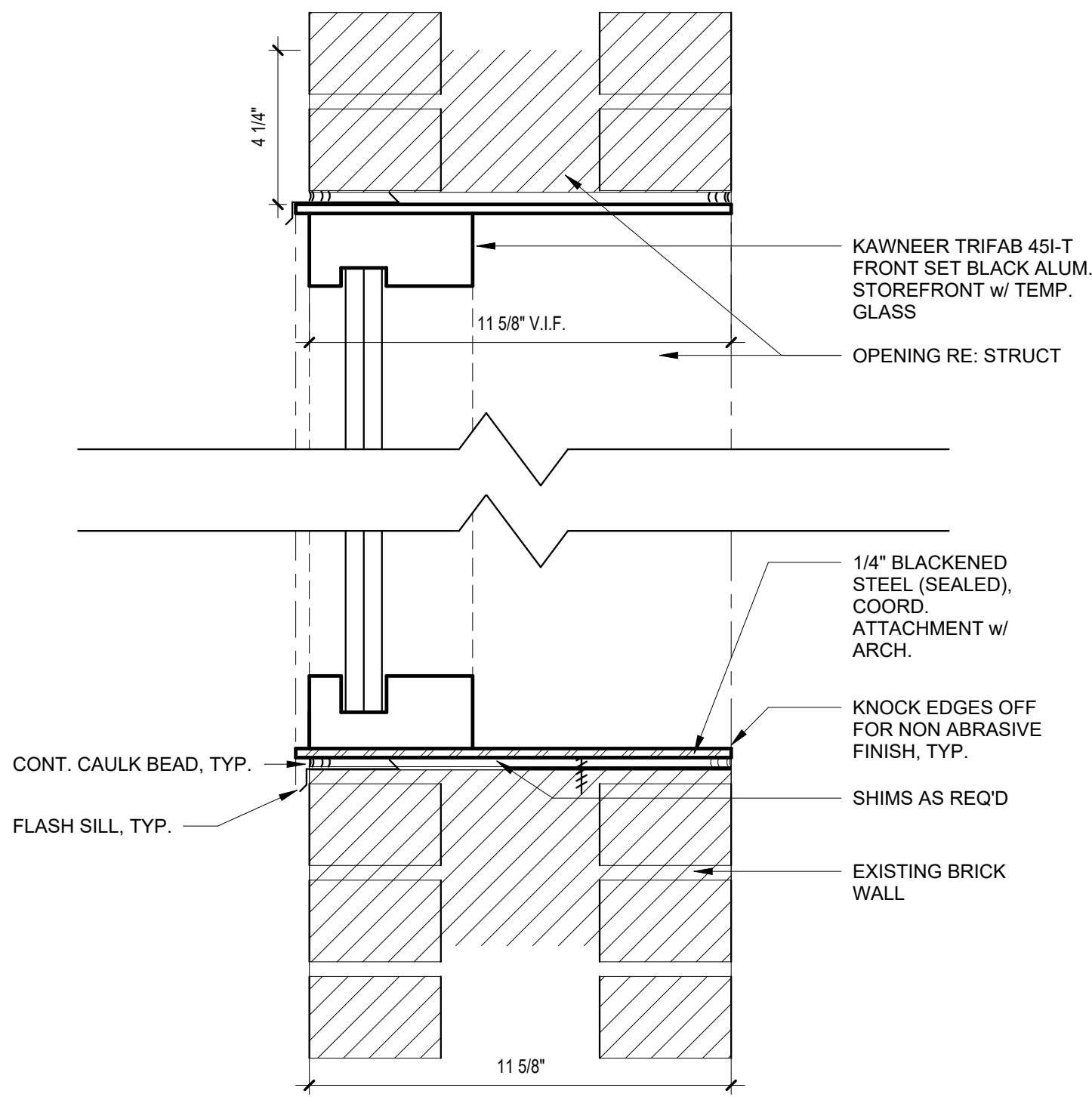
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DIVISION 087100. DOOR HARDWARE (CONT. FROM A13.01)		3. CONSTRUCTION KEYS (WHERE REQUIRED): TEN (10).
B. DOOR AND FRAME PREPARATION: DOORS AND CORRESPONDING FRAMES ARE TO BE PREPARED, REINFORCED AND PRE-WIRED (IF APPLICABLE) TO RECEIVE THE INSTALLATION OF THE FIELD-ELECTRIFIED, MONITORING, SIGNALING AND ACCESS CONTROL SYSTEM HARDWARE WITHOUT ADDITIONAL IN-PLACE MODIFICATIONS.	F. CONSTRUCTION KEYING: PROVIDE CONSTRUCTION MASTER KEYED CYLINDERS.	
1.7. WARRANTY	2.5. KEY CONTROL	
A. GENERAL WARRANTY: REFERENCE DIVISION 01, GENERAL REQUIREMENTS. SPECIAL WARRANTIES SPECIFIED IN THIS ARTICLE SHALL NOT DEPRIVE OWNER OF OTHER RIGHTS OWNER MAY HAVE UNDER OTHER PROVISIONS OF THE CONTRACT DOCUMENTS AND SHALL BE IN ADDITION TO, AND RUN CONCURRENT WITH, OTHER WARRANTIES MADE BY CONTRACTOR UNDER REQUIREMENTS OF THE CONTRACT DOCUMENTS.	2.6. MECHANICAL LOCKS AND LATCHING DEVICES	
B. WARRANTY PERIOD: WRITTEN WARRANTY, EXECUTED BY MANUFACTURER(S), AGREEING TO REPAIR OR REPLACE COMPONENTS OF STANDARD AND ELECTRIFIED DOOR HARDWARE THAT FAILS IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD AFTER FINAL ACCEPTANCE BY THE OWNER. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:	A. MORTISE LOCKSETS, GRADE 1 (HEAVY DUTY): ANSIBHMA A156.13, SERIES 1000, OPERATIONAL GRADE 1 CERTIFIED PRODUCTS DIRECTORY (CPD) LISTED. LOCKSETS ARE TO BE MANUFACTURED WITH A CORROSION RESISTANT STEEL CASE AND BE FIELD-REVERSIBLE FOR HANDING WITHOUT DISASSEMBLY OF THE LOCK BODY.	
1. STRUCTURAL FAILURES INCLUDING EXCESSIVE DEFLECTION, CRACKING, OR BREAKAGE.	1. MANUFACTURERS:	
2. FAULTY OPERATION OF THE HARDWARE.	a. YALE COMMERCIAL(YA) - 8800F SERIES.	
3. DETERIORATION OF METALS, METAL FINISHES, AND OTHER MATERIALS BEYOND NORMAL WEATHERING.	B. CYLINDRICAL LOCKSETS, GRADE 1 (COMMERCIAL DUTY): ANSIBHMA A156.2, SERIES 4000, OPERATIONAL GRADE 1 CERTIFIED PRODUCTS DIRECTORY (CPD) LISTED.	
4. ELECTRICAL COMPONENT DEFECTS AND FAILURES WITHIN THE SYSTEMS OPERATION.	1. LOCKS ARE TO BE NON-HANDLED AND FULLY FIELD REVERSIBLE.	
C. STANDARD WARRANTY PERIOD: ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION, UNLESS OTHERWISE INDICATED.	2. MANUFACTURERS:	
D. SPECIAL WARRANTY PERIODS:	a. YALE COMMERCIAL(YA) 4700LN SERIES.	
1. TEN YEARS FOR MORTISE LOCKS AND LATCHES.		
2. FIVE YEARS FOR EXIT HARDWARE.		
3. TWENTY FIVE YEARS FOR MANUAL OVERHEAD DOOR CLOSER BODIES.		
1.8. MAINTENANCE SERVICE	2.7. LOCK AND LATCH STRIKES	
A. MAINTENANCE TOOLS AND INSTRUCTIONS: FURNISH A COMPLETE SET OF SPECIALIZED TOOLS AND MAINTENANCE INSTRUCTIONS AS NEEDED FOR OWNERS CONTINUED ADJUSTMENT, MAINTENANCE, AND REMOVAL AND REPLACEMENT OF DOOR HARDWARE.	A. STRIKES: PROVIDE MANUFACTURER'S STANDARD STRIKE WITH STRIKE BOX FOR EACH LATCH OR LOCK BOLT, WITH CURVED LP EXTENDED TO PROTECT FRAME. FINISHED TO MATCH DOOR HARDWARE SET, UNLESS OTHERWISE INDICATED, AND AS FOLLOWS:	
	1. FLAT-LIP STRIKES: FOR LOCKS WITH THREE-PIECE ANTI-FRICTION LATCH BOLTS, AS RECOMMENDED BY MANUFACTURER.	
	2. EXTRA-LONG-LIP STRIKES: FOR LOCKS USED ON FRAMES WITH APPLIED WOOD CASING TRIM.	
	3. ALUMINUM-FRAME STRIKE BOX: PROVIDE MANUFACTURER'S SPECIAL STRIKE BOX FABRICATED FOR ALUMINUM FRAMING.	
	4. DOUBLE-LIPPED STRIKES: FOR LOCKS AT DOUBLE ACTING DOORS. FURNISH WITH RETRACTABLE STOP FOR RESQUE HARDWARE APPLICATIONS.	
	B. STANDARDS: COMPLY WITH THE FOLLOWING:	
	1. STRIKES FOR MORTISE LOCKS AND LATCHES: BHMA A156.13.	
	2. STRIKES FOR BORED LOCKS AND LATCHES: BHMA A156.2.	
	3. STRIKES FOR AUXILIARY DEADLOCKS: BHMA A156.36.	
	4. DUST-PROOF STRIKES: BHMA A156.16.	
2.1. SCHEDULED DOOR HARDWARE	2.8. CONVENTIONAL EXIT DEVICES	
A. GENERAL: PROVIDE DOOR HARDWARE FOR EACH DOOR TO COMPLY WITH REQUIREMENTS IN DOOR HARDWARE SETS AND EACH REFERENCED SECTION THAT PRODUCTS ARE TO BE SUPPLIED UNDER.	A. GENERAL REQUIREMENTS: ALL EXIT DEVICES SPECIFIED HEREIN SHALL MEET OR EXCEED THE FOLLOWING CRITERIA:	
B. DESIGNATIONS: REQUIREMENTS FOR QUANTITY, ITEM, SIZE, FINISH OR COLOR, GRADE, FUNCTION, AND OTHER DISTINCTIVE QUALITIES OF EACH TYPE OF DOOR HARDWARE ARE INDICATED IN THE DOOR HARDWARE SETS AT THE END OF PART 3. PRODUCTS ARE IDENTIFIED BY USING DOOR HARDWARE DESIGNATIONS, AS FOLLOWS:	1. AT DOORS NOT REQUIRING A FIRE RATING, PROVIDE DEVICES COMPLYING WITH NFPA 101 AND LISTED UNDER "PARTICULAR HARDWARE" ACCORDING TO UL335. PROVIDE PROPER FASTENERS AS REQUIRED BY MANUFACTURER INCLUDING HEX NUTS AND BOLTS AT OPENINGS SPECIFIED IN THE HARDWARE SETS.	
1. NAMED MANUFACTURERS' PRODUCTS: PRODUCT DESIGNATION AND MANUFACTURER ARE LISTED FOR EACH DOOR HARDWARE TYPE REQUIRED FOR THE PURPOSE OF ESTABLISHING REQUIREMENTS. MANUFACTURER'S NAMES ARE ABBREVIATED IN THE DOOR HARDWARE SCHEDULE.	2. WHERE EXIT DEVICES ARE REQUIRED ON FIRE RATED DOORS, PROVIDE DEVICES COMPLYING WITH NFPA 80 AND WITH UL LABELING INDICATING "FIRE EXIT HARDWARE". PROVIDE DEVICES WITH THE PROPER FASTENERS FOR INSTALLATION AS TESTED AND LISTED BY UL. CONSULT MANUFACTURER'S CATALOG AND TEMPLATE BOOK FOR SPECIFIC REQUIREMENTS.	
C. SUBSTITUTIONS: REQUESTS FOR SUBSTITUTION AND PRODUCT APPROVAL FOR INCLUSIVE MECHANICAL AND ELECTROMECHANICAL DOOR HARDWARE IN COMPLIANCE WITH THE SPECIFICATIONS MUST BE SUBMITTED IN WRITING AND IN ACCORDANCE WITH THE PROCEDURES AND TIME FRAMES OUTLINED IN DIVISION 01. SUBSTITUTION PROCEDURES, APPROVAL OF REQUESTS IS AT THE DISCRETION OF THE ARCHITECT, OWNER, AND THEIR DESIGNATED CONSULTANTS.	3. EXCEPT ON FIRE RATED DOORS, PROVIDE EXIT DEVICES WITH HEX KEY DOGGING DEVICE TO HOLD THE PUSHBAR AND LATCH IN A RETRACTED POSITION. PROVIDE OPTIONAL KEYED CYLINDER DOGGING ON DEVICES WHERE SPECIFIED IN HARDWARE SETS.	
	4. DEVICES MUST FIT FLAT AGAINST THE DOOR FACE WITH NO GAP THAT PERMITS UNAUTHORIZED DOGGING OF THE PUSH BAR. THE ADDITION OF PULLER STOPS IS REQUIRED IN ANY CASE WHERE THE DOOR LIGHT EXTENDS BEHIND THE DOOR FACE AS IN A FULL GLASS CONFIGURATION.	
	5. LEVER OPERATING TRIM: WHERE EXIT DEVICES REQUIRE LEVER TRIM, FURNISH MANUFACTURER'S HEAVY DUTY ESCUTCHEON TRIM WITH THREADED STUDS FOR THRU-BOLTS.	
	a. LOCK TRIM DESIGN: AS INDICATED IN HARDWARE SETS, PROVIDE FINISHES AND DESIGNS TO MATCH THAT OF THE SPECIFIED LOCKSETS.	
	b. WHERE FUNCTION OF EXIT DEVICE REQUIRES A CYLINDER, PROVIDE A CYLINDER (RM OR MORTISE) AS SPECIFIED IN HARDWARE SETS.	
	6. VERTICAL ROD EXIT DEVICES: WHERE SURFACE OR CONCEALED VERTICAL ROD EXIT DEVICES ARE USED AT INTERIOR OPENINGS, PROVIDE AS LESS BOTTOM ROD (LBR) UNLESS OTHERWISE INDICATED. PROVIDE JUST PROOF STRIKES WHERE THERMAL PINS ARE REQUIRED TO PROJECT INTO THE FLOOR.	
	7. NARROW SLOT APPLICATIONS: AT DOORS CONSTRUCTED WITH NARROW STILES, OR AS SPECIFIED IN HARDWARE SETS, PROVIDE DEVICES DESIGNED FOR MAXIMUM 1/2" WIDTH SLIT.	
	8. DUMMY PUSH BAR: NON-FUNCTIONING PUSH BAR MATCHING FUNCTIONAL PUSH BAR.	
	9. RAIL SIZING: PROVIDE EXIT DEVICE RAILS FACTORY SIZED FOR PROPER DOOR WIDTH APPLICATION.	
	10. THROUGH BOLT INSTALLATION: PROVIDE FOR EXIT DEVICES AND TRIM TO BE INSTALLED ON WOOD DOORS.	
	B. CONVENTIONAL PUSH RAIL EXIT DEVICES (HEAVY DUTY): ANSIBHMA A156.3, GRADE 1 CERTIFIED PRODUCTS DIRECTORY (CPD) LISTED PANIC AND FIRE EXIT HARDWARE DEVICES FURNISHED IN THE FUNCTIONS SPECIFIED IN THE HARDWARE SETS. EXIT DEVICE LATCH TO BE STAINLESS STEEL, PULLMAN TYPE, WITH DEADLOCK FEATURE.	
	1. MANUFACTURERS:	
	a. YALE (YA) - 7000 SERIES.	
	C. CONVENTIONAL PUSH RAIL EXIT DEVICES (COMMERCIAL DUTY): ANSIBHMA A156.3, GRADE 1 CERTIFIED PRODUCTS DIRECTORY (CPD) LISTED PANIC AND FIRE EXIT HARDWARE DEVICES FURNISHED IN THE FUNCTIONS SPECIFIED IN THE HARDWARE SETS. FABRICATE LATCH-BOLTS FROM CAST STAINLESS STEEL, PULLMAN TYPE, INCORPORATING A DEADLOCKING FEATURE.	
	1. MANUFACTURERS:	
	a. YALE COMMERCIAL(YA) - 8000 SERIES.	
	D. TUBULAR PANIC DEVICES: ANSIBHMA A156.3, GRADE 1 CERTIFIED PRODUCTS DIRECTORY (CPD) LISTED PANIC AND FIRE EXIT HARDWARE DEVICES FURNISHED IN THE FUNCTIONS SPECIFIED IN THE HARDWARE SETS. DEVICE TO BE ADA COMPLIANT REQUIRING LESS THAN 5 LBS. OF FORCE TO ACTIVATE. POST MOUNTING WITH OPTIONAL MECHANICAL DOGGING. PROVIDE PROPER FASTENERS AS REQUIRED BY MANUFACTURER TO MEET APPLICATION REQUIREMENTS. PROVIDE EXIT DEVICES ON BOTH LEAVES OF PAIRS OF DOORS.	
	1. STYLE: EXPOSED OR CONCEALED. PROVIDE WITH INTERIOR OPERATING PULL HANDLE IN COMBINATION WITH EXTERIOR FIXED PULL HANDLE. PANIC MECHANISM SHALL BE CONCEALED WITHIN BRASS OR STAINLESS STEEL TUBING. OPTIONAL ENTRANCE FROM EXTERIOR BY A KEYED CYLINDER. CONFIGURATIONS (PROVIDE AS SPECIFIED):	
	a. FULL HEIGHT L-SHAPE PULL.	
	b. PUSH/PULL OPERATION WHEN OPENED FROM THE INSIDE.	
	3. LATCHING: TOP LATCHING, REVERSED, FLAT, PULLMAN STYLE. ROLLER-TYPE LATCHING NOT ACCEPTABLE.	
	5. ENGRAVED "PUSH" SIGNAGE WITH OPTIONAL PAINT INFILL AND BOUNDARY GROOVES.	
	6. MANUFACTURERS:	
	a. ROCKWOOD (RO) - PDJ8500 SERIES.	
2.3. DOOR OPERATING TRIM	2.9. DOOR CLOSERS	
A. FLUSH BOLTS AND SURFACE BOLTS: ANSIBHMA A156.3 AND A156.16, GRADE 1, CERTIFIED.	A. ALL DOOR CLOSERS SPECIFIED HEREIN SHALL MEET OR EXCEED THE FOLLOWING CRITERIA:	
1. FLUSH BOLTS TO BE FURNISHED WITH TOP ROD OF SUFFICIENT LENGTH TO ALLOW BOLT RETRACTION DEVICE LOCATION APPROXIMATELY SIX FEET FROM THE FLOOR.	1. GENERAL: DOOR CLOSERS TO BE FROM ONE MANUFACTURER, MATCHING IN DESIGN AND STYLE, WITH THE SAME TYPE DOOR PREPARATIONS AND TEMPLATES REGARDLESS OF APPLICATION OR SPRING SIZE. CLOSERS TO BE NON-HANDLED WITH FULL SIZED COVERS.	
2. FURNISH DUST PROOF STRIKES FOR BOTTOM BOLTS.	2. STANDARDS: CLOSERS TO COMPLY WITH UL-10C FOR POSITIVE PRESSURE FIRE TEST AND BE U.L. LISTED FOR USE OF FIRE RATED DOORS.	
3. SURFACE BOLT TO BE MINIMUM 8" IN LENGTH AND U.L. LISTED FOR LABELED FIRE DOORS AND U.L. LISTED FOR WINDSTORM COMPONENTS WHERE APPLICABLE.	3. SIZE OF UNITS: COMPLY WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS FOR SIZING OF DOOR CLOSERS DEPENDING ON SIZE OF DOOR, EXPOSURE TO WEATHER, AND ANTICIPATED FREQUENCY OF USE. WHERE CLOSERS ARE INDICATED FOR DOORS REQUIRED TO BE ACCESSIBLE TO THE AMERICANS WITH DISABILITIES ACT, PROVIDE UNITS COMPLYING WITH ANSI A117.1.	
4. PROVIDE RELATED ACCESSORIES (MOUNTING BRACKETS, STRIKES, COORDINATORS, ETC.) AS REQUIRED FOR APPROPRIATE INSTALLATION AND OPERATION.	4. CLOSER ARMS: PROVIDE HEAVY DUTY, FORGED STEEL CLOSER ARMS UNLESS OTHERWISE INDICATED IN HARDWARE SETS.	
5. MANUFACTURERS:	5. CLOSERS SHALL NOT BE INSTALLED ON EXTERIOR OR CORRIDOR SIDE OF DOORS, WHERE POSSIBLE. INSTALL CLOSERS ON DOOR FOR OPTIMUM AESTHETICS.	
a. ROCKWOOD (RO).	6. CLOSER ACCESSORIES: PROVIDE DOOR CLOSER ACCESSORIES INCLUDING CUSTOM TEMPLATES, SPECIAL MOUNTING BRACKETS, SPRINGERS AND DROP PLATES AS REQUIRED FOR PROPER INSTALLATION. PROVIDE THROUGH-BOLT TYPE FASTENERS FOR CLOSERS TO BE INSTALLED ON WOOD DOORS.	
b. TRIMCO (TC).	B. DOOR CLOSERS: SURFACE MOUNTED (HEAVY DUTY): ANSIBHMA A156.4, GRADE 1 CERTIFIED PRODUCTS DIRECTORY (CPD) LISTED SURFACE MOUNTED. HEAVY DUTY DOOR CLOSERS WITH COMPLETE SPRING POWER ADJUSTMENT, SIZES 1 THRU 5, AND FULLY OPERATIONAL ADJUSTABLE ACCORDING TO DOOR SIZE, FREQUENCY OF USE, AND OPENING FORCE. CLOSERS TO BE RACK AND PINION TYPE, ONE PIECE CAST IRON OR ALUMINUM ALLOY BODY CONSTRUCTION, WITH ADJUSTABLE BACKCHECK AND SEPARATE NON-CRITICAL VALVES FOR CLOSING SWEEP AND LATCH SPEED CONTROL. PROVIDE NON-HANDLED UNITS STANDARD.	
B. DOOR PUSH PLATES AND PULLS: ANSIBHMA A156.6 CERTIFIED DOOR PUSHES AND PULLS OF TYPE AND DESIGN SPECIFIED IN THE HARDWARE SETS. COORDINATE AND PROVIDE PROPER WIDTH AND HEIGHT AS REQUIRED WHERE CONFLICTING HARDWARE DICATES.	1. MANUFACTURERS:	
1. PUSH/PULL PLATES: MINIMUM .050 INCH THICK, SIZE AS INDICATED IN HARDWARE SETS, WITH BEVELED EDGES, SECURED WITH EXPOSED SCREWS UNLESS OTHERWISE INDICATED.	a. YALE COMMERCIAL(YA) - 4400 SERIES.	
2. DOOR PULL AND PUSH BAR DESIGN: SIZE, SHAPE, AND MATERIAL AS INDICATED IN THE HARDWARE SETS. MINIMUM CLEARANCE OF 2 1/2-INCHES FROM FACE OF DOOR UNLESS OTHERWISE INDICATED.	C. DOOR CLOSERS: SURFACE MOUNTED (UNITROL): ANSIBHMA A156.4, GRADE 1 CERTIFIED PRODUCTS DIRECTORY (CPD) LISTED SURFACE MOUNTED CLOSERS WITH DOOR STOP MECHANISM TO ABSORB DEAD STOP SHOCK ON ARM AND TOP HINGE. HOLD-OPEN ARMS TO HAVE A SPRING LOADED MECHANISM IN ADDITION TO SHOCK ABSORBER ASSEMBLY. ARMS TO BE PROVIDED WITH RIGID STEEL MAIN ARM AND SECONDARY ARM LENGTHS PROPORTIONAL TO THE DOOR WIDTH.	
3. SPECIAL MOUNTING BRACKETS, SPRINGERS AND DROP PLATES AS REQUIRED FOR PROPER INSTALLATION. PROVIDE THROUGH-BOLT TYPE FASTENERS FOR CLOSERS TO BE INSTALLED ON WOOD DOORS.	1. MANUFACTURERS:	
4. FASTENERS: PROVIDE MANUFACTURER'S DESIGNATED FASTENER TYPE AS INDICATED IN HARDWARE SETS.	a. YALE COMMERCIAL(YA) - UNITROL SERIES.	
5. MANUFACTURERS:	2.10. ARCHITECTURAL TRIM	
a. ROCKWOOD (RO).	A. DOOR PROTECTIVE TRIM	
b. TRIMCO (TC).	1. GENERAL: DOOR PROTECTIVE TRIM UNITS TO BE OF TYPE AND DESIGN AS SPECIFIED BELOW OR IN THE HARDWARE SETS.	
B. CYLINDERS AND KEYING	2. SIZE: FABRICATE PROTECTION PLATES (KICK, ARMOR, OR MOP) NOT MORE THAN 2" LESS THAN DOOR WIDTH (LDW) ON STOP SIDE OF SINGLE DOORS AND 1" LDW ON STOP SIDE OF PAIRS OF DOORS, AND NOT MORE THAN 1" LESS THAN DOOR WIDTH ON PULL SIDE. COORDINATE AND PROVIDE PROPER WIDTH AND HEIGHT AS REQUIRED WHERE CONFLICTING HARDWARE DICATES. HEIGHT TO BE AS SPECIFIED IN THE HARDWARE SETS.	
A. GENERAL: CYLINDER MANUFACTURER TO HAVE MINIMUM (10) YEARS EXPERIENCE DESIGNING SECURED MASTER KEY SYSTEMS AND HAVE ON RECORD A PUBLISHED SECURITY KEYING SYSTEM CATALOG.	3. WHERE PLATES ARE APPLIED TO FIRE RATED DOORS WITH THE TOP OF THE PLATE MORE THAN 16" ABOVE THE BOTTOM OF THE DOOR, PROVIDE PLATES COMPLYING WITH NFPA 80. CONSULT MANUFACTURER'S CATALOG AND TEMPLATE BOOK FOR SPECIFIC REQUIREMENTS FOR SIZE AND APPLICATIONS.	
B. SOURCE LIMITATIONS: OBTAIN EACH TYPE OF KEYED CYLINDER AND KEYS FROM THE SAME SOURCE MANUFACTURER AS LOCKSETS AND EXIT DEVICES, UNLESS OTHERWISE INDICATED.	4. PROTECTION PLATES: ANSIBHMA A156.6 CERTIFIED PROTECTION PLATES (KICK, ARMOR, OR MOP), FABRICATED FROM THE FOLLOWING:	
1. MANUFACTURERS	a. STAINLESS STEEL, 300 GRADE, .050-INCH THICK.	
a. YALE COMMERCIAL (YA).		
C. CYLINDER TYPES: ORIGINAL MANUFACTURER CYLINDERS ABLE TO SUPPLY THE FOLLOWING CYLINDER FORMATS AND TYPES:		
1. THREADED MORTISE CYLINDERS WITH RINGS AND CAMS TO SUIT HARDWARE APPLICATION.		
2. RIM CYLINDERS WITH BACK PLATE, FLAT-TYPE VERTICAL OR HORIZONTAL TAILPIECE, AND RAISED TRIM RING.		
3. BORED OR CYLINDRICAL LOCK CYLINDERS WITH TAILPIECES AS REQUIRED TO SUIT LOCKS.		
4. TUBULAR DEADLOCKS AND OTHER AUXILIARY LOCKS.		
5. MORTISE AND RIM CYLINDER COLLARS TO BE SOLID AND RECESSED TO ALLOW THE CYLINDER FACE TO BE FLUSH AND BE FREE SPINNING WITH MATCHING FINISHES.		
6. KEYWAY: MANUFACTURER'S STANDARD.		
D. KEYING SYSTEM: EACH TYPE OF LOCK AND CYLINDERS TO BE FACTORY KEYED.		
1. SUPPLIER SHALL CONDUCT A KEYING CONFERENCE TO DEFINE AND DOCUMENT KEYING SYSTEM INSTRUCTIONS AND REQUIREMENTS.		
2. FURNISH FACTORY CUT, NICKEL-SILVER, LARGE BOW PERMANENTLY INSCRIBED WITH A VISUAL KEY CONTROL NUMBER AS DIRECTED BY OWNER.		
3. NEW SYSTEM: KEY LOOKS TO A NEW KEY SYSTEM AS DIRECTED BY THE OWNER.		
E. KEY QUANTITY: PROVIDE THE FOLLOWING MINIMUM NUMBER OF KEYS:		
1. CHANGE KEYS PER CYLINDER, TWO (2).		
2. MASTER KEYS (PER MASTER KEY LEVEL/GROUP): FIVE (5).		

5. OPTIONS AND FASTENERS: PROVIDE MANUFACTURER'S DESIGNATED FASTENER TYPE AS SPECIFIED IN THE HARDWARE SETS. PROVIDE COUNTERSUNK SCREW HOLES.		
6. MANUFACTURERS:		
a. ROCKWOOD (RO).		
b. TRIMCO (TC).		
2.11. DOOR STOPS AND HOLDERS		
A. GENERAL: DOOR STOPS AND HOLDERS TO BE OF TYPE AND DESIGN AS SPECIFIED BELOW OR IN THE HARDWARE SETS.		
B. DOOR STOPS AND BUMPERS: ANSIBHMA A156.16, GRADE 1 CERTIFIED DOOR STOPS AND WALL BUMPERS. PROVIDE WALL BUMPERS, EITHER CONVEX OR CONCAVE TYPES WITH ANCHORAGE AS INDICATED. UNLESS FLOOR OR OTHER TYPES OF DOOR STOPS ARE SPECIFIED IN HARDWARE SETS, DO NOT MOUNT FLOOR STOPS WHERE THEY WILL IMPEDE TRAFFIC. WHERE FLOOR OR WALL BUMPERS ARE NOT APPROPRIATE, PROVIDE OVERHEAD TYPE STOPS AND HOLDERS.		
SET-1.0		
DOORS: 121		
1. PIVOT SET	147	622 RF
2. SIDE PIVOT	M19	622 RF
1. EXIT DEVICE (EXIT ONLY)	7225 EO X 2153 X CMK	BSP YA
1. EXIT DEVICE (NIGHT LATCH)	7225 503F X 1109 X 2153 X CMK	BSP YA
2. DOOR PULL	BF157 BSP	RO
2. DROP PLATE	486488 (AS REQUIRED)	BSP YA
2. OVERHEAD STOP	6-X36 (SIZE AS REQUIRED)	BSP RF
2. THRESHOLD	2728SP	PE
1. WEATHERSTRIP	DOOR MANUFACTURERS STANDARD	OT
2. DOOR BOTTOM	DOOR MANUFACTURERS STANDARD	OT
2. MEETING STILE	DOOR MANUFACTURERS STANDARD	OT
1. RAIN GUARD	3468SP	PE
2.12. ARCHITECTURAL SEALS		
A. GENERAL: THRESHOLDS, WEATHERSTRIPPING, AND GASKET SEALS TO BE OF TYPE AND DESIGN AS SPECIFIED BELOW OR IN THE HARDWARE SETS. PROVIDE CONTINUOUS WEATHERSTRIP GASKETING ON EXTERIOR DOORS AND PROVIDE SMOKE, LIGHT, OR SOUND GASKETING ON INTERIOR DOORS WHERE INDICATED. AT EXTERIOR APPLICATIONS PROVIDE NON-CORROSIVE FASTENERS AND ELSEWHERE WHERE INDICATED.		
B. SMOKE LABELED GASKETING: ASSEMBLIES COMPLYING WITH NFPA 108 THAT ARE LISTED AND LABELED BY A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, FOR SMOKE CONTROL RATINGS INDICATED, BASED ON TESTING ACCORDING TO U.L. 178.		
1. PROVIDE SMOKE LABELED PERIMETER GASKETING AT ALL SMOKE LABELED OPENINGS.		
2. DROP PLATE	486488 (AS REQUIRED)	BSP YA
2. OVERHEAD STOP	6-X36 (SIZE AS REQUIRED)	BSP RF
1. THRESHOLD	2728SP	PE
1. WEATHERSTRIP	DOOR MANUFACTURERS STANDARD	OT
2. DOOR BOTTOM	DOOR MANUFACTURERS STANDARD	OT
2. MEETING STILE	DOOR MANUFACTURERS STANDARD	OT
1. RAIN GUARD	3468SP	PE
SET-3.0		
DOORS: 115		
1. PIVOT SET	147	622 RF
2. SIDE PIVOT	M19	622 RF
1. EXIT DEVICE	PDJ8500-3.04	BSP RO
1. MORTISE CYLINDER	2153 CMK	BSP YA
2. SURFACE CLOSER	(PA) 4400BSP	YA
2. DROP PLATE	486488 (AS REQUIRED)	BSP YA
2. OVERHEAD STOP	6-X36 (SIZE AS REQUIRED)	BSP RF
1. THRESHOLD	2728SP	PE
1. WEATHERSTRIP	DOOR MANUFACTURERS STANDARD	OT
2. DOOR BOTTOM	DOOR MANUFACTURERS STANDARD	OT
2. MEETING STILE	DOOR MANUFACTURERS STANDARD	OT
1. RAIN GUARD	3468SP	PE
SET-4.0		
DOORS: 100		
1. PIVOT SET	147	622 RF
2. SIDE PIVOT	M19	622 RF
1. EXIT DEVICE	PDJ8500-3.04	BSP RO
1. MORTISE CYLINDER	2153 CMK	BSP YA
2. SURFACE CLOSER	(PA) 4400BSP	YA
2. DROP PLATE	486488 (AS REQUIRED)	BSP YA
2. OVERHEAD STOP	6-X36 (SIZE AS REQUIRED)	BSP RF
1. DOOR SEAL	DOOR MANUFACTURERS STANDARD	OT
SET-5.0		
DOORS: 129		
3. HINGE	T4A3386 (NRP)	BSP MK
1. STOREROOM LOCK	MOR 8805FL CMK	BSP YA
1. SURFACE CLOSER	UN1400	BSP YA
1. KICK PLATE	K1050 10" CSK BEV	BSP RO
1. THRESHOLD	273X3BSPFG	PE
1. WEATHERSTRIP	2893BSPV @ HEAD	PE
2. WEATHERSTRIP	2903BSPV @ JAMBS	PE
1. DOOR BOTTOM	2168SPFG	PE
1. LATCH PROTECTOR	320C	BSP RO
SET-6.0		
DOORS: 207		
3. HINGE	T4A3386 (NRP)	BSP MK
1. DEADBOLT LOCK	MOR 8811-12P CMK	BSP YA
1. SURFACE CLOSER	UN1400	BSP YA
1. KICK PLATE	K1050 10" CSK BEV	BSP RO
1. THRESHOLD	273X3BSPFG	PE
1. WEATHERSTRIP	2893BSPV @ HEAD	PE
2. WEATHERSTRIP	2903BSPV @ JAMBS	PE
1. LATCH PROTECTOR	320C	BSP RO
SET-7.0		
DOORS: 119, 130, 131		
3. HINGE	T42714 (NRP)	BSP MK
1. STOREROOM LOCK	MO 4705LN CMK	BSP YA
1. KICK PLATE	K1050 10" CSK BEV	BSP RO
1. WALL STOP	403	BSP RO
3. SILENCER	608	RO
SET-8.0		
DOORS: 125		
3. HINGE	T42714 (NRP)	BSP MK
1. STOREROOM LOCK	MO 4705LN CMK	BSP YA
1. KICK PLATE	K1050 10" CSK BEV	BSP RO
1. OVERHEAD STOP	9-X36 (SIZE AS REQUIRED)	BSP RF
3. SILENCER	608	RO
SET-9.0		
DOORS: 107, 118		
3. HINGE	T42714 (NRP)	BSP MK
1. STOREROOM LOCK	MO 4705LN CMK	BSP YA
1. SURFACE CLOSER	(PA) 4400BSP	YA
1. KICK PLATE	K1050 10" CSK BEV	BSP RO
1. WALL STOP	403	BSP RO
3. SILENCER	608	RO
SET-11.0		
DOORS: 101		
3. HINGE	T42714 (NRP)	BSP MK
1. ENTRY LOCK	MO 4705LN CMK	BSP YA
1. KICK PLATE	K1050 10" CSK BEV	BSP RO
1. WALL STOP	403	BSP RO
1. GASKETING	5773D @ HEAD & JAMBS	PE
SET-14.0		
DOORS: 109, 122		
3. HINGE	T4A33786 (NRP)	BSP MK
1. CLASSROOM LOCK	MO 4708LN CMK	BSP YA
1. SURFACE CLOSER	(PA) 4400BSP	YA
1. KICK PLATE	K1050 10" CSK BEV	BSP RO
1. WALL STOP	403	BSP RO
1. GASKETING	588D @ HEAD & JAMBS	PE
SET-10.0		
DOORS: 128		
3. HINGE	T42714 (NRP)	BSP MK
1. STOREROOM LOCK	MO 4705LN CMK	BSP YA
1. SURFACE CLOSER	(PA) 4400BSP	YA
1. KICK PLATE	K1050 10" CSK BEV	BSP RO
1. WALL STOP	403	BSP RO
1. GASKETING	5773D @ HEAD & JAMBS	PE
SET-12.0		
DOORS: 103, 122		
3. HINGE	T4A33786 (NRP)	BSP MK
1. CLASSROOM LOCK	MO 4708LN CMK	BSP YA
1. SURFACE CLOSER	(PA) 4400BSP	YA
1. KICK PLATE	K1050 10" CSK BEV	BSP RO
1. WALL STOP	403	BSP RO
1. GASKETING	588D @ HEAD & JAMBS	PE
SET-13.0		
DOORS: 114		
3. HINGE	T42714 (NRP)	BSP MK
1. CLASSROOM LOCK	MO 4708LN CMK	BSP YA
1. SURFACE CLOSER	(PA) 4400BSP	YA
1. KICK PLATE	K1050 10" CSK BEV	BSP RO
1. WALL STOP	403	BSP RO
1. GASKETING	588D @ HEAD & JAMBS	PE
SET-14.0		
DOORS: 205		
3. HINGE	T42714 (NRP)	BSP MK
1. PRIVACY LOCK	MO 4702LN	BSP YA
1. WALL STOP	403	BSP RO
3. SILENCER	608	RO
SET-15.0		
DOORS: 210		
3. HINGE	T42714 (NRP)	BSP MK
1. PRIVACY LOCK	MO 4702LN	BSP YA
1. WALL STOP	403	BSP RO
3. SILENCER	608	RO
SET-16.0		
DOORS: 110, 111, 112, 204		
3. HINGE	T4A3786 (NRP)	BSP MK
1. PRIVACY LOCK	MOR 8862FL V21	BSP YA
1. SURFACE CLOSER	(PA) 4400BSP	YA
1. KICK PLATE	K1050 10" CSK BEV	BSP RO
1. MOP PLATE	K1050 6" CSK BEV	BSP RO
1. WALL STOP	403	BSP RO
1. GASKETING	5773D @ HEAD & JAMBS	PE
SET-17.0		
DOORS: 126		
3. HINGE	T4A3786 (NRP)	BSP MK
1. PRIVACY LOCK	MOR 8862FL V21	BSP YA
1. SURFACE CLOSER	(PA) 4400BSP	YA
1. KICK PLATE	K1050 10" CSK BEV	BSP RO
1. WALL STOP	403	BSP RO
1. GASKETING	5773D @ HEAD & JAMBS	PE
SET-18.0		
DOORS: 104, 123, 124, 200, 212, 213		
3. HINGE	T42714 (NRP)	BSP MK
1. PRIVACY LOCK	MO 4702LN	BSP YA
1. SURFACE CLOSER	(PA) 4400BSP	YA
1. KICK PLATE	K1050 10" CSK BEV	BSP RO
1. WALL STOP	403	BSP RO
1. GASKETING	5773D @ HEAD & JAMBS	PE
SET-19.0		
DOORS: 206		
3. HINGE	T42714 (NRP)	BSP MK
1. SURFACE CLOSER	MO 4702LN	BSP YA
1. KICK PLATE	K1050 10" CSK BEV	BSP RO
1. OVERHEAD STOP	9-X36 (SIZE AS REQUIRED)	BSP RF
1. GASKETING	5773D @ HEAD & JAMBS	PE
SET-20.0		
DOORS: 105, 108		
6. HINGE	T42714 (NRP)	B



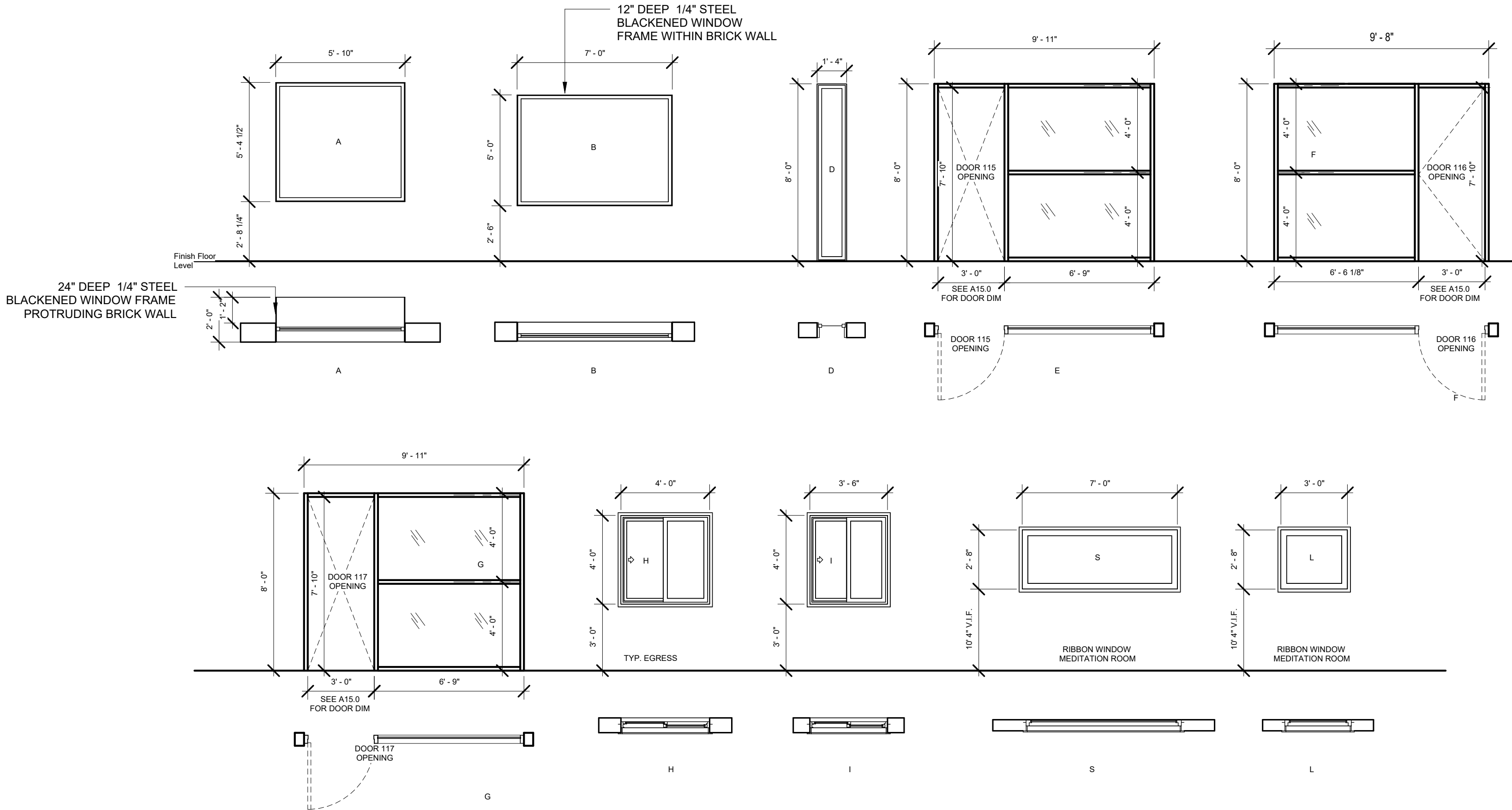
3 WINDOW A SECTION
3" = 1'-0"



4 WINDOW B SECTION
3" = 1'-0"

WINDOW SCHEDULE											
Type Mark	Rough Opening		Type	Manufacturer	Model	Material	Finish	U-Fact.	SHGC	Head Height	Comments
	Width	Height									
A	5' - 10"	5' - 4 1/2"	Fixed	Kawneer	TRIFAB 451T	Fibrex	Black int, Black out	0.28	0.33	8' - 0"	2' - 0" Deep 1/4" Steel Plate Window
B	7' - 0"	5' - 0"	Fixed	Kawneer	TRIFAB 451T	Fibrex	Black int, Black out	0.28	0.33	7' - 6"	1' - 0" Deep 1/4" Steel Plate Window
C	4' - 6"	3' - 6"	Gliding Two Sash Equal	Anderson Corporation	100-Series Single	Fibrex	Black int, Black out	0.30	0.31	6' - 8"	
D	1' - 4"	7' - 0"	Fixed	Anderson Corporation	100-Series Single	Fibrex	Black int, Black out	0.28	0.33	8' - 0"	
E	9' - 11"	Coord. w/ Elevations	Storefront Window	Kawneer	TRIFAB 451T	Alum	Black	0.29	0.25	10' - 0"	Glass setting - Front, Thermal
F	9' - 8"	Coord. w/ Elevations	Storefront Window	Kawneer	TRIFAB 451T	Alum	Black	0.29	0.25	10' - 0"	Glass setting - Front, Thermal
G	9' - 11"	Coord. w/ Elevations	Storefront Window	Kawneer	TRIFAB 451T	Alum	Black	0.29	0.25	10' - 0"	Glass setting - Front, Thermal
H	4' - 0"	4' - 0"	Gliding Two Sash Equal	Anderson Corporation	100-Series Single	Fibrex	Black int, Black out	0.30	0.31	7' - 0"	
I	3' - 6"	4' - 0"	Gliding Two Sash Equal	Anderson Corporation	100-Series Single	Fibrex	Black int, Black out	0.30	0.31	7' - 0"	
S	7' - 0"	2' - 8"	Fixed	Anderson Corporation	100-Series Single	Fibrex	Black int, Black out	0.28	0.33	13' - 0"	Replace existing windows
L	3' - 0"	2' - 8"	Fixed	Anderson Corporation	100-Series Single	Fibrex	Black int, Black out	0.28	0.33	13' - 0"	Replace existing windows

- Notes:
- Egress windows shall meet minimums size requirements of 5.7 sq. ft opening with minimum width of 20" and 24" height clear. Exception: Grade floor or below grade windows shall have a net clear opening of not less than 5.0 sq. ft.
 - Egress window sill height shall not be more than 44" AFF. Code requires this max height to the opening. Should opening be below grade, a window well is required re: R310.2.3
 - Window wells, where required for below grade egress, shall not be less than 9 sf in area with a minimum 36" clear in width and horizontal projection. The well shall allow window to fully open. The ladder or steps required by R310.2.3.1 shall be permitted to encroach not more than 6" into required dimensions of window well. Wells > 44" depth shall have a ladder or steps. Rungs or steps shall have an inside width of 12" while not projecting > 3" from wall. Spacing of rungs or steps shall not exceed 18" vertically for height of well. Well shall be tied into foundation drainage system unless on well drained soil or sand gravel mixture.
 - Storefront Glass to be tempered where required. Glazing shall be Guardian SN 68 Low E on Gray Tint #2, Front placement in frame.
 - GC to Coordinate Field Verify all openings.



Window / Storefront Legend
1/4" = 1'-0"

- EXTERIOR WINDOWS SHALL BE AS SCHEDULED OR ARCHITECT APPROVED EQUIVALENT WITH FACTORY FINISH AS SCHEDULED.
- SEE DETAIL FOR CONDITIONS WHERE WALL TERMINATES AT WINDOW/FRAME CENTER MULLION.
- INTERIOR GLASS SHALL BE TEMPERED CLEAR GLASS. U.O.N. GLASS THICKNESS SHALL BE DETERMINED BY SIZE & NUMBER OF FRAMED SIDES. ADDITIONALLY, PROVIDE TEMPERED GLAZING WHERE GLAZING IN FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF THE DOOR OR WHERE THE GLAZING IS WITHIN 24" OF THE WALKING SURFACE, OR WHERE GLAZING IS OVER 9sf PER LITE. WINDOWS IN PROCESS OR COAGULATOR AREA TO BE OF USDA APPROVED.
- ALL EXTERIOR GLASS SHALL BE DOUBLE PANE. LOW-E, U.O.N. w/ U-FACTOR OF 0.30 OR BETTER.
- COORDINATE w/ PLANS AND ELEVATIONS FOR OPERABLE SWING OR SLIDE DIRECTION FOR WINDOWS.
- CONTRACTOR TO FIELD VERIFY ALL OPENINGS FOR WINDOWS PRIOR TO ORDER.

1 Window General Notes
3/4" = 1'-0"

- ALL FENESTRATIONS THAT ARE NOT SITE BUILT SHALL BE LISTED AND LABELED AS MEETING NFRC REQUIREMENTS (C303.1.3)
- FENESTRATION PRODUCTS ARE CERTIFIED AS TO PERFORMANCE LABELS OR CERTIFICATES PROVIDED.
- THE VERTICAL FENESTRATION AREA <= 30% OF THE GROSS ABOVE GRADE WALL AREA. (C402.4.1)
- SKYLIGHT AREA <= 3% OF THE GROSS ROOF AREA (C402.4.1)

2 Fenestration General Notes
3/4" = 1'-0"



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4840 W 29th Ave
Denver, CO 80212
Building Renovation

PROFESSIONAL SEAL

8/01/2022

DO NOT SCALE DRAWINGS
CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY JUNIPER ROAD STUDIOS LLC. OF ANY DIMENSIONAL ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK.

Window Schedule

DRAWN BY JRS	SHEET A13.03
DATE 8/01/2022	REV.
SCALE @ 24"x36" As indicated	PROJECT NUMBER 21-4840

DESIGN DATA

THE DESIGN OF THE STRUCTURE AND PARTS THEREOF IS IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE, AS AMENDED AND ADOPTED BY DENVER, CO (2019 DBC).

2.	FLOOR LIVE LOADS:	100 PSF
3.	ROOF LIVE LOADS:	35 PSF
4.	ROOF SNOW LOADS:	35 PSF
	SNOW EXPOSURE FACTOR, Ce	1
	SNOW LOAD IMPORTANCE FACTOR, I	1
	THERMAL FACTOR, Ct	1
	SNOW DRIFT:	MAX + BALANCED = 71.73 psf @ END = 25 PSF
5.	WIND DESIGN DATA:	
	BASIC WIND SPEED (EXP C)	115 MPH
	WIND IMPORTANCE FACTOR, I	1.0
	OCCUPANCY CATEGORY	II
	WIND EXPOSURE	C
	INTERNAL PRESSURE COEF.	+/- 0.18
	COMPONENTS AND CLADDING	PER ASCE 7
	PARAPET PRESSURE	72 PSF

GENERAL NOTES

- THE GENERAL CONTRACTOR SHALL VERIFY THE SIZE, WEIGHT, LOCATION, AND SUPPORT CONDITIONS OF ALL MECHANICAL EQUIPMENT SUPPORTED ON OR SUSPENDED FROM THE ROOF OR SUSPENDED FLOORS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
- PRINCIPAL OPENINGS ARE SHOWN ON THESE DRAWINGS. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SLEEVES, CURBS, INSERTS AND OTHER OPENINGS NOT SHOWN. IF OPENINGS MUST PENETRATE A STRUCTURAL ELEMENT, THE GENERAL CONTRACTOR SHALL VERIFY THE ADEQUACY OF SUCH MEMBERS PRIOR TO CONSTRUCTION.
- SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS NOT SHOWN AND FOR EXACT LOCATIONS OF ALL WALL AND FOOTING STEPS
- THE CONTRACTOR SHALL COMPARE STRUCTURAL DIMENSIONS AND SECTIONS WITH ARCHITECTURAL DIMENSIONS AND SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.
- ALL TEMPORARY SHORING AND BRACING OF WALLS DURING CONSTRUCTION, PRIOR TO THE COMPLETION OF ALL BRACING ELEMENTS, IS THE RESPONSIBILITY OF THE CONTRACTOR. SHORE ALL WALLS DURING THE BACKFILLING AND COMPACTION PROCESS.
- THE GENERAL CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH THE CONSTRUCTION OF ADJACENT STRUCTURES. NOTIFY THE ARCHITECT OF ANY CONFLICTING REQUIREMENTS PRIOR TO CONSTRUCTION.
- SELECTION OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND/OR PROCEDURES, AS WELL AS SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, ARE SOLELY THE CONTRACTOR'S RIGHTS AND RESPONSIBILITIES. AS SUCH, ANY REQUIRED CONSTRUCTION ENGINEERING AND/OR DESIGN RESULTING FROM THESE SELECTIONS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- DIMENSIONS TO EXISTING OR ADJACENT CONSTRUCTION ARE BASED ON THE ORIGINAL CONSTRUCTION DOCUMENTS AND/OR APPROXIMATE FIELD MEASUREMENTS. THEY ARE TO BE USED FOR BID PURPOSES ONLY AND NOT FOR SHOP DRAWING PREPARATION OR CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FIT UP OF MEMBERS FRAMING TO AND AROUND EXISTING CONSTRUCTION.

GEOTECHNICAL INFORMATION

- NO GEOTECHNICAL REPORT IS PROVIDED FOR THIS PROJECT. THE RECOMMENDATIONS AND DESIGNS ARE BASED UPON THE EXPERIENCE OF THE ENGINEER. MCCLISH STRUCTURAL.
- FOUNDATIONS ARE DESIGNED TO A MAX BEARING CAPACITY OF 1500 PSF.

DISCLAIMER:

- SITE REVIEW OF AN EXISTING STRUCTURE REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS AND MAY NOT BE VERIFIABLE WITHOUT DESTRUCTIVE TESTING. IT IS POSSIBLE THAT FURTHER RECOMMENDATIONS MAY BE REQUIRED DUE TO CONCEALED CONDITIONS.

UTILITIES:

- ALL UTILITIES ARE TO BE LOCATED BY THE CONTRACTOR PRIOR TO ANY EXCAVATING.
- CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS DUE TO UTILITIES TO ALLOW FOR MODIFICATIONS WHERE NEEDED.

MODIFICATIONS OF EXISTING STRUCTURE NOTES

- THE CONTRACTOR SHALL INSPECT THE EXISTING STRUCTURE PRIOR TO FABRICATION AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS OR ANY AREAS ERODED BY RUST, CORROSION, ROT, ETC., WHICH MAY ADVERSELY AFFECT THE RELIABILITY OF NEW CONSTRUCTION.
-
- DIMENSIONS SHOWN FOR, OR TO, THE EXISTING STRUCTURE ARE BASED ON EITHER THE ORIGINAL CONSTRUCTION DOCUMENTS PREPARED FOR THE EXISTING STRUCTURE OR ON APPROXIMATE FIELD MEASUREMENTS. THEY ARE TO BE USED FOR BID PURPOSES ONLY AND NOT FOR SHOP DRAWING PREPARATION OR CONSTRUCTION. ACTUAL CONDITIONS MAY VARY. THE CONTRACTOR SHALL PROVIDE ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FIT UP OF MEMBERS FRAMING TO AND AROUND EXISTING CONSTRUCTION.
-
- THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE ADEQUACY OF ALL SHORING (TEMPORARY SUPPORTS) OF THE EXISTING STRUCTURE NECESSARY TO COMPLETE THE CONSTRUCTION AS OUTLINED IN THE STRUCTURAL DRAWINGS. PROVIDE SHORING, BRACES, JACKS, ETC. AS REQUIRED TO COMPLETE THE WORK. ENGINEERING AND DESIGN OF THE TEMPORARY SUPPORTS SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER, ENGAGED BY THE CONTRACTOR, AND REGISTERED IN THE STATE OF THE PROJECT, WITH EXPERIENCE IN THE DESIGN OF THESE ELEMENTS.

SHOP DRAWING REVIEW AND SUBMITTAL NOTES

- SHOP DRAWINGS AND/OR PRODUCT DATA FOR THE FOLLOWING ITEMS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR

REVIEW:

- REINFORCING STEEL
- CONCRETE FORMWORK
- STRUCTURAL STEEL
- WOOD TRUSSES
- PRE-ENGINEERED WOOD JOISTS

REFER TO PROJECT SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.

SHOP DRAWINGS AND SUBMITTALS WILL BE REVIEWED FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS

- SUBMITTAL REVIEW WILL NOT BE CONDUCTED FOR THE PURPOSE OF DETERMINING THE ACCURACY AND COMPLETENESS OF OTHER DETAILED INFORMATION SUCH AS DIMENSIONS AND QUANTITIES, OR FOR SUBSTANTIATING INSTRUCTIONS FOR INSTALLATION OR PERFORMANCE OF EQUIPMENT OR SYSTEMS DESIGNED BY THE CONTRACTOR. ALL OF THIS REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.

REVIEW SHALL NOT CONSTITUTE APPROVAL OF SAFETY PRECAUTIONS OR OF ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES.

APPROVAL OF A SPECIFIC ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.

DISTRIBUTION OF PRINTS IS TO BE MADE ONLY FROM RETURNED SEPIAS BEARING AN INITIALED REVIEW STAMP. NO WORK ON ITEMS SHOWN THEREON IS TO PROCEED UNLESS THE STAMP CLEARLY INDICATES "APPROVED" OR "APPROVED AS NOTED."

- GENERAL CONTRACTOR SHALL PRE-CHECK ALL SHOP DRAWINGS BEFORE SUBMISSION TO THE ENGINEER FOR REVIEW. ALL SUBMITTAL MATERIALS MUST BEAR THE REVIEW STAMP OF THE GENERAL CONTRACTOR.
- GENERAL CONTRACTOR SHALL SCHEDULE SUBMITTALS SUFFICIENTLY IN ADVANCE OF THE DATE REQUIRED TO ALLOW REASONABLE TIME FOR DELIVERY, PROCESSING AND REVIEW BY THE DESIGN TEAM. THIS SHALL INCLUDE A MINIMUM OF TEN WORKING DAYS, EXCLUDING DELIVERY TIME, FOR ENGINEER'S PROCESSING AND REVIEW OF SHOP DRAWINGS. INCLUDE TIME FOR CONTRACTOR'S RESUBMISSION AND SUBSEQUENT REVIEW IF NECESSARY.

SHORTER REVIEW PERIODS WILL ONLY BE HONORED WITH PRIOR WRITTEN CONSENT FROM THE ENGINEER. THESE ACCELERATED SERVICES, AND APPROPRIATE COMPENSATION, MUST BE NEGOTIATED WITH THE ENGINEER AND ARCHITECT IN ADVANCE.

DO NOT SUBMIT LARGE QUANTITIES OF SHOP DRAWINGS AT ONE TIME.

- THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS, INCLUDING THE USE OF ELECTRONIC FILES, BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF THE INDEPENDENT PREPARATION OF SHOP DRAWINGS, SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON. SUCH USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS WILL NOT BE ALLOWED WITHOUT PRIOR CONSENT FROM THE ENGINEER.
- THE STRUCTURAL ENGINEER DOES NOT APPROVE THE DESIGN OF CONCRETE MIXES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PERFORMANCE OF THE CONCRETE SUPPLIED TO THE JOB. PROPOSED MIX DESIGNS SHALL BE PREPARED AND/OR REVIEWED AND APPROVED FOR CONFORMANCE TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY AN INDEPENDENT TESTING LABORATORY. SUBMIT THE PROPOSED MIXES AND THE TESTING LABORATORY'S REPORT TO THE ARCHITECT. MIX DESIGNS SHALL BE IN ACCORDANCE WITH ACI 318, CHAPTER 5.

ENGINEER INSPECTIONS:

- A MINIMUM OF 48 BUSINESS HOURS SHALL BE PROVIDED TO THE ENGINEER FOR INSPECTIONS. DISCLAIMER: 1. SITE REVIEW OF AN EXISTING STRUCTURE REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS AND MAY NOT BE VERIFIABLE WITHOUT DESTRUCTIVE TESTING. IT IS POSSIBLE THAT FURTHER RECOMMENDATIONS MAY BE REQUIRED DUE TO CONCEALED CONDITIONS.

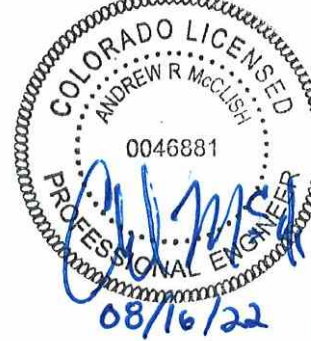
UTILITIES:

- ALL UTILITIES ARE TO BE LOCATED BY THE CONTRACTOR PRIOR TO ANY EXCAVATING.
- CONTRACTOR TO NOTIFY ENGINEER OF ANY CONFLICTS DUE TO UTILITIES TO ALLOW FOR MODIFICATIONS WHERE NEEDED.

STATEMENT OF SPECIAL INSPECTIONS PER IBC 1704

- INFORMATION ON THIS SHEET IS BEING SUBMITTED IN ACCORDANCE WITH THE SPECIAL INSPECTIONS PROVISIONS OF THE 2018 INTERNATIONAL BUILDING CODE. THIS INFORMATION CONSTITUTES THE SCHEDULE OF SPECIAL INSPECTIONS (SSI) REQUIRED FOR THIS PROJECT.
- THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED HEREIN. THE GENERAL CONTRACTOR SHALL NOT EMPLOY THE SPECIAL INSPECTORS.
- THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- THE SPECIAL INSPECTOR SHALL FULLFILL THE FOLLOWING REPORT REQUIREMENTS:
 - SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS.
 - THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE OWNER, THE GENERAL CONTRACTOR, THE STRUCTURAL ENGINEER, AND THE ARCHITECT. IN ADDITION, REPORTS RELATED TO GEOTECHNICAL ISSUES SHALL BE DISTRIBUTED TO THE GEOTECHNICAL ENGINEER. WHEN TESTS OR INSPECTIONS INDICATE THAT THE WORK DOES NOT COMPLY WITH THE CONSTRUCTION DOCUMENTS, THE SPECIAL INSPECTOR SHALL NOTIFY THE OWNER, CONTRACTOR, ARCHITECT AND STRUCTURAL ENGINEER BY PHONE ON THE DAY OF THE TEST OR INSPECTION AND SHALL FOLLOW THAT CALL WITH AN EXPEDITED WRITTEN REPORT WITHIN ONE BUSINESS DAY. ALL OTHER REPORTS SHALL BE SUBMITTED WITHIN 5 BUSINESS DAYS OF THE EVENT DOCUMENTED.
 - REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.
 - DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
 - IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITHIN ONE BUSINESS DAY.
 - A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED BY THE SPECIAL INSPECTOR AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
 - THE SPECIAL INSPECTOR'S FINAL REPORT SHALL STATE THE FOLLOWING: "IN MY PROFESSIONAL OPINION AND TO THE BEST OF MY INFORMATION, KNOWLEDGE AND BELIEF, THE SPECIAL INSPECTIONS REQUIRED FOR THIS PROJECT, AS ITEMIZED IN THE STATEMENT OF SPECIAL INSPECTIONS SUBMITTED FOR PERMIT, HAVE BEEN PERFORMED AND ALL DISCOVERED DISCREPANCIES HAVE BEEN REPORTED AND RESOLVED."
 - THE REPORT SHALL BE SIGNED BY THE SPECIAL INSPECTOR.
- THE INSPECTIONS LISTED HEREIN ARE IN ADDITION TO THE INSPECTIONS TO BE PERFORMED BY THE BUILDING OFFICIAL AND LISTED IN SECTION 109 OF THE IBC.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION ON QUANTITY, FREQUENCY AND DETAILED INFORMATION ON TESTING, INSPECTION AND REPORTING.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT A PRECONSTRUCTION MEETING TO DISCUSS THE SPECIAL INSPECTION REQUIREMENTS WITH ALL INVOLVED PARTIES.
- THE SPECIAL INSPECTIONS PROGRAM OUTLINED HEREIN, DOES NOT RELIEVE THE CONTRACTOR OR ANY OTHER ENTITY OF ANY CONTRACTUAL DUTIES, INCLUDING QUALITY CONTROL, QUALITY ASSURANCE, OR SAFETY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND JOB SITE SAFETY.
- THE CONTRACTOR SHALL PAY FOR ENGINEERING SERVICES REQUIRED TO INVESTIGATE AND CORRECT WORK THAT DOES NOT CONFORM TO THE PROJECT DOCUMENTS OR IS FOUND DEFICIENT OR DEFECTIVE.

Issue Date	Coordination	—	01/14/2022
REVISIONS			
City Comments	—	5/27/22	
Client Revisions	—	6/13/22	
City Comments	—	6/16/22	



KADAMPA MEDITATION CENTER

Denver, CO 80212

4840 W 29th Ave,
Denver, CO 80212

S1.1

MCCLISH
STRUCTURAL
CONSULTING

CONSTRUCTION DOCUMENTS MSC # 21225

GENERAL NOTES

IBC TABLE 1704.4
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

1. SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.		X		ACI 318: 3.5, 7.1-7.7	1903.5, 1907.1, 1907.7, 1914.4	03200, PART 3, FIELD QUALITY CONTROL
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5b.		X		AWS D1.4, ACI 318:3.5.2	1903.5.2	03200, PART 3, FIELD QUALITY CONTROL
3. INSPECT BOLTS AND EMBED PLATES TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.	X				1912.5	03200, PART 3, FIELD QUALITY CONTROL
4. VERIFYING USE OF REQUIRED DESIGN MIX.		X		ACI 318: Ch. 4, 5.2-5.4	1904, 1905.2-1905.4, 1914.2, 1914.3	03300, PART 3, FIELD QUALITY CONTROL
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X			ASTM C 172, ASTM C31, ACI 318: 5.6, 5.8	1905.6, 1914.10	03300, PART 3, FIELD QUALITY CONTROL
6. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X			ACI 318: 5.9.5.10	1905.9, 1905.10, 1914.6, 1914.7, 1914.8	
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		X		ACI 318: 5.11-5.13	1905.11, 1905.13, 1914.9	03300, PART 3, FIELD QUALITY CONTROL

IBC TABLE 1704.3
REQUIRED VERIFICATION AND INSPECTION OF METAL DECK CONSTRUCTION

1. SPECIAL INSPECTIONS FOR METAL DECK SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. MATERIAL VERIFICATION OF METAL DECK:						
a. IDENTIFICATION MARKINGS TO CONFORM TO SDI STANDARDS AND THE APPROVED SHOP DRAWINGS.		X		MANUFACTURER'S APPROVED SHOP DRAWINGS		05300, PART 3, QUALITY CONTROL
2. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		X		REFER TO TABLE 1704.3, STRUCTURAL STEEL		05300, PART 3, QUALITY CONTROL
5. INSPECTION OF WELDING:		X				
a. STRUCTURAL STEEL:						
1) FLOOR AND DECK WELDS, SPACING AND PATTERN.		X		REFER TO TABLE 1704.3, STRUCTURAL STEEL		05300, PART 3, QUALITY CONTROL

IBC TABLE 1704.3
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

1. SPECIAL INSPECTIONS FOR STEEL ELEMENTS OF THE BUILDINGS AND STRUCTURES SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.
2. DETAILS: THE SPECIAL INSPECTOR SHALL PERFORM AN INSPECTION OF THE STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE APPROVED CONSTRUCTION DOCUMENTS, SUCH AS BRACING, STIFFENING, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:						
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		X		APPLICABLE ASTM MATERIAL SPECIFICATIONS: AISC 335, SECTION A3.4; AISC LRFD, SECTION A3.3		05100, PART 3, FIELD QUALITY CONTROL
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.		X				
2. INSPECTION OF HIGH-STRENGTH BOLTING:						05100, PART 3, FIELD QUALITY CONTROL
a. BEARING-TYPE CONNECTIONS.		X		AISC LRFD SECTION M2.5	1704.3.3	
b. SLIP-CRITICAL CONNECTIONS.		X				
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:						
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		X		ASTM A6 OR ASTM A568	1708.4	05100, PART 1
b. MANUFACTURER'S CERTIFIED MILL TEST REPORTS.		X				
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:						
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.		X		AISC, ASD, SECTION A3.6; AISC LRFD, SECTION A3.5		05100, PART 3, FIELD QUALITY CONTROL
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.		X				
5. INSPECTION OF WELDING:						
a. STRUCTURAL STEEL:						
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X					
2) MULTI-PASS FILLET WELDS.	X			AWS D1.1	1704.3.1	05100, PART 3, FIELD QUALITY CONTROL
3) SINGLE-PASS FILLET WELDS ≥ 5/16"	X					
4) SINGLE-PASS FILLET WELDS ≤ 5/16"		X				
5) FLOOR AND DECK WELDS.		X		AWS D1.3		
b. REINFORCING STEEL:						
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706.		X				
2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	X			AWS D1.4 ACI 318: 3.5.2	1903.5.2	
3) SHEAR REINFORCEMENT.	X					
4) OTHER REINFORCING STEEL.		X				
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:						
a. DETAILS SUCH AS BRACING AND STIFFENING.		X		AWS, SECTIONS 4.29 AND 4.30	1704.3.2	05100, PART 3, FIELD QUALITY CONTROL
b. MEMBER LOCATIONS.		X				
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.		X				
7. INSPECTION OF WELDED STUD SHEAR CONNECTORS.		X				

IBC TABLE 1704.3
REQUIRED VERIFICATION AND INSPECTION OF STEEL JOIST AND JOIST GIRDER CONSTRUCTION

1. SPECIAL INSPECTIONS FOR STEEL JOISTS AND JOIST GIRDERS SHALL BE AS REQUIRED IN THE FOLLOWING TABLE.
2. DETAILS: THE SPECIAL INSPECTOR SHALL PERFORM AN INSPECTION OF THE STEEL JOIST AND JOIST GIRDER FRAMING TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE APPROVED CONSTRUCTION DOCUMENTS, SUCH AS BRACING, BRIDGING, STIFFENING, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	NOT APPLICABLE	REFERENCED STANDARD	IBC REFERENCE	PROJECT SPECIFICATION SECTION
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:		X		REFER TO TABLE 1704.3, STRUCTURAL STEEL	1704.3	05210, PART 3, FIELD QUALITY CONTROL
2. INSPECTION OF HIGH-STRENGTH BOLTING:		X		REFER TO TABLE 1704.3, STRUCTURAL STEEL	1704.3	05210, PART 3, FIELD QUALITY CONTROL
3. MATERIAL VERIFICATION OF STEEL JOISTS AND JOIST GIRDERS:						
a. FABRICATION OF JOISTS AND JOIST GIRDERS		X		REFER TO TABLE 1704.2	1704.2	05210, PART 3, FIELD QUALITY CONTROL
b. IDENTIFICATION MARKINGS TO CONFORM TO SJ STANDARDS AND THE APPROVED SHOP DRAWINGS.		X		MANUFACTURER'S APPROVED SHOP DRAWINGS	1704.3	
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		X		REFER TO TABLE 1704.3, STRUCTURAL STEEL	1704.3	05210, PART 3, FIELD QUALITY CONTROL
5. INSPECTION OF WELDING:		X		REFER TO TABLE 1704.3, STRUCTURAL STEEL	1704.3	05210, PART 3, FIELD QUALITY CONTROL
6. INSPECTION OF JOIST AND JOIST GIRDER FRAMING AND JOINT/CONNECTION DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:						
a. MEMBER LAYOUT, ORIENTATION, LOCATION, SPACING AND FIT UP.		X		CONSTRUCTION DOCUMENTS AND MANUFACTURER'S APPROVED SHOP DRAWINGS	1704.3	05210, PART 3, FIELD QUALITY CONTROL
b. DETAILS SUCH AS BRACING, BRIDGING, REINFORCEMENT AND STIFFENING.		X		MANUFACTURER'S APPROVED SHOP DRAWINGS		
c. APPLICATION OF JOINT DETAILS (BEARING, WELDING, BOLTING, ETC.) AT EACH CONNECTION.		X		REFER TO TABLE 1704.3, STRUCTURAL STEEL		

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CONSTRUCTION DOCUMENTS MSC# 21225

SLAB-ON-GRADE NOTES

1. FLOOR SLAB SHALL BE 4"THICK CONCRETE SLAB OVER A 6 MIL VAPOR RETARDER, OVER SUBGRADE PREPARED PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. TAPE ALL SEAMS, PENETRATIONS AND TEARS IN THE VAPOR BARRIER WITH A COMPATIBLE WATERPROOF TAPE.
2. REINFORCE SLAB WITH #3 @ 12" CTRS. EACH WAY PLACED AND SUPPORTED ON CHAIRS OR CONCRETE BRIQUETS, AT SLAB MID DEPTH.
3. PROVIDE ONE OF THE FOLLOWING JOINTS ON THE CENTERLINE OF ALL COLUMNS, AND @ 12' O.C. MAXIMUM.

- A. CONSTRUCTION JOINTS WHERE DETAILED ON DRAWINGS.
- B. 1" DEEP SAW CUT CONTROL JOINTS ELSEWHERE.

4. A METAL CONTROL JOINT FORM MAY BE USED IN LIEU OF EITHER OF THE ABOVE.

5. CUT SAW CUT JOINTS WITHIN 8 HOURS OF POURING CONCRETE. CONCRETE NOTES

1. CONCRETE IN THE FOLLOWING AREAS SHALL HAVE SAND AND GRAVEL OR CRUSHED STONE AGGREGATES AND THE DESIGNATED COMPRESSIVE STRENGTH IN 28 DAYS UNLESS NOTED OTHERWISE. NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C33. LIGHTWEIGHT AGGREGATES SHALL CONFORM TO ASTM C330. LIGHTWEIGHT CONCRETE SHALL HAVE A MAXIMUM DRY DENSITY OF 120 pcf. FOOTINGS AND FOUNDATION WALLS f_c=3500 psi ALL OTHER CONCRETE f_c=4000 psi

2. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318

3. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS: REFER TO SECTION 7.7 ACI 318FOR CONDITIONS NOT NOTED.

SLABS-ON-GRADE COLUMNS	CENTERED 1 1/2"
SLABS ABOVE GRADE CONCRETE JOISTS	3/4" 1"
BEAMS ABOVE GRADE WALL PANELS	1 1/2" 1 1/2"

4. MAXIMUM NOMINAL COARSE AGGREGATE SIZE SHALL BE 1" MAX UNLESS NOTED OTHERWISE.

5. CONCRETE SLUMPS SHALL BE AS FOLLOWS:

PIERS	7" MAX, 5" MIN
ALL OTHER CONCRETE	5" MAX, 2" MIN

6. THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS. ALL CONSTRUCTION JOINTS SHALL BE MADE IN THE CENTER OF SPANS WITH VERTICAL BULK HEADS. THE LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
7. ALL GRADE BEAMS, CAST IN PLACE WALLS AND PIER CAPS SHALL BE FORMED ON SIDES. ALL ELEMENTS OF THE FORMS, FORMWORK, BRACING AND SHORING SHALL CONSIST OF WOOD, METAL OR OTHER MANUFACTURED PRODUCTS AS SPECIFIED. EARTH MAY NOT BE USED AS A FORM, EITHER DIRECTLY OR INDIRECTLY. NEITHER EARTH TRENCHES NOR EARTH TRENCHES LINED WITH ANOTHER MATERIAL ARE ACCEPTABLE.
8. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED AS FOLLOWS:
- | | |
|-------------------------------|--------------|
| 3/4" NOMINAL AGGREGATE SIZE | 4% TO 8% |
| 1" NOMINAL AGGREGATE SIZE | 3.5% TO 6.5% |
| 1 1/2" NOMINAL AGGREGATE SIZE | 3% TO 6% |

REINFORCING STEEL NOTES

1. ALL REINFORCING STEEL SHALL BE NEW DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
2. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM 185.
3. DETAILING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL.

4. REINFORCING BARS MAY BE SPLICED ONLY AS SHOWN ON THE DRAWINGS EXCEPT THAT REINFORCING DESIGNATED AS "CONTINUOUS" MAY BE CONTACT LAP SPLICED 30 BAR DIAMETERS. LAP SPLICES OF CONTINUOUS GRADE BEAM REINFORCING SHALL BE MADE OVER SUPPORTS FOR BOTTOM AND INTERMEDIATE BARS AND AT MIDSPAN FOR TOP BARS. AT GRADE BEAM END SUPPORTS, TOP BARS SHALL BE HOOKED DOWN AND BOTTOM BARS SHALL BE HOOKED UP.

5. PROVIDE CORNERS BARS OF SAME SIZE AND QUANTITY AS CONTINUOUS TOP AND BOTTOM REINFORCING OF GRADE BEAMS AT ALL GRADE BEAM CORNERS AND INTERSECTIONS. STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO A.I.S.C. "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," ANSI/AISC 360, LATEST EDITION.
2. BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS," APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS, LATEST EDITION. CONNECTIONS SHALL BE BEARING TYPE UNLESS NOTED OTHERWISE IN DRAWINGS.
3. ALL W SHAPES SHALL CONFORM TO ASTM A992.

ALL OTHER STRUCTURAL STEEL SHAPES, PLATES, ETC., SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.

4. GALVANIZING OF STEEL MEMBERS SHALL CONFORM TO ASTM A123/A123M. ALL STEEL FRAMING THAT COMES IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE COATED TO A G90 THICKNESS AND ALL BOLTS, HEADED STUDS AND CONNECTORS SHALL BE COATED TO A G185 THICKNESS.

5. ALL STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPES "E" OR "S", GRADE B.

6. ALL STRUCTURAL STEEL TUBES SHALL CONFORM TO ASTM A500, GRADE B.

7. ALL STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE A.I.S.C.

8. STEEL MEMBERS SHALL NOT BE SPLICED EXCEPT WHERE SHOWN ON THE DRAWINGS.

9. ALL STEEL BEAMS SHALL BE ERECTED WITH NATURAL CAMBER UP.

10. NON-COMPOSITE: THE BEAM-TO-BEAM AND BEAM-TO-COLUMN CONNECTIONS SHALL DEVELOP THE END REACTION OF THE CONNECTED BEAM. THE END REACTION OF THE CONNECTED BEAM CAN BE OBTAINED FROM THE LOAD CARRYING CAPACITY OF THE BEAM ON THE BASIS OF EQUIVALENT UNIFORM LOADS GIVEN IN PART 3 (FLEXURAL MEMBERS) OF THE 13TH ADDITION A.I.S.C. MANUAL. THE MINIMUM SHEAR CAPACITY OF THE 12 KIPS SHALL BE PROVIDED FOR ALL BEAMS 8" TO 10" DEEP WITH 8 KIPS FOR BEAMS OF DEPTH LESS THAN 8". ANY REACTIONS GIVEN ON THE DRAWINGS SUPERSEDE THIS NOTE. CONNECTIONS SHALL BE DESIGNED AND DETAILED AS REQUIRED BY PART 9 (DESIGN OF CONNECTING ELEMENTS) OF THE A.I.S.C. MANUAL, 13TH EDITION. NON COMPOSITE BEAMS SHALL BE DEFINED AS THOSE REQUIRING NO SHEAR CONNECTORS (HEADED STUDS).
11. WELDED CONSTRUCTION SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE", D1.1 ELECTRODES FOR FIELD AND SHOP WELDS SHALL BE E70XX, UNLESS NOTED OTHERWISE.
12. ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED WITHIN THE LAST 6 MONTHS.

13. FULL AND PARTIAL PENETRATION WELDS PERFORMED IN THE FIELD SHALL BE ULTRASONICALLY TESTED.

14. WHEN WELDS ARE NOT CALLED-OUT ON DRAWINGS, THEY ARE MINIMUM SIZE CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AWS D1.1.
15. TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSEWORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED, FURNISHED, AND INSTALLED BY THE ERECTOR. THESE TEMPORARY SUPPORTS SHALL BE CAPABLE OF SECURING THE STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED, RESULTING FROM WIND, SEISMIC FORCES AND ERECTION OPERATIONS.

1. THE LIFTING AND ERECTION OF PRE-ASSEMBLED ELEMENTS SUCH AS TRUSSES OR PRE-FABRICATED FRAMING ARE CONSIDERED SPECIAL ERECTION CONDITIONS. THE SELECTION OF LIFT POINTS AND ERECTION TECHNIQUES ARE THE RESPONSIBILITY OF THE CONTRACTOR. LOCATE AND PROVIDE SUFFICIENT LIFT POINTS TO PREVENT OVERSTRESS AND/OR DISTORTION OF ANY COMPONENTS WITHIN THE ASSEMBLY. PROVIDE TEMPORARY STRONG-BACKS, STIFFENERS AND/OR LIFTING DEVICES AS REQUIRED.
2. THE STEEL FABRICATOR IS RESPONSIBLE FOR COORDINATION WITH THE MANUFACTURER OF STEEL JOISTS AND JOIST GIRDERS.
3. THE CONTRACTOR SHALL COMPLY WITH OSHA REQUIREMENTS FOR STEEL ERECTION.

- A. WHERE PERIMETER SAFETY CABLES ARE REQUIRED:

1. CABLES MAY BE ATTACHED TO PERIMETER TUBE AND PIPE COLUMNS WITH STEEL DEVICES (PLATES, CLIPS, ETC.) WELDED TO THE COLUMNS.

- (II) AT WIDE FLANGE COLUMNS, HOLES, UP TO 1" DIAMETER, MAY BE DRILLED IN THE WEB OR FLANGE AT 42" TO 45" ABOVE THE FINISHED FLOOR AND AT THE MIDPOINT BETWEEN THE FINISHED FLOOR AND THE TOP CABLE, TO PERMIT INSTALLATION OF THE PERIMETER CABLE SYSTEM.

- (III) THE DESIGN OF ATTACHMENTS, THE PERIMETER CABLE SYSTEM AND ANCHORAGE TO THE STRUCTURE IS THE RESPONSIBILITY OF THE CONTRACTOR.

- B. PRIOR TO ERECTION OF STEEL, THE CONTRACTOR SHALL PROVIDE TO THE STEEL ERECTOR, ON THE BASIS OF APPROPRIATE ASTM STANDARD TEST METHODS OF FIELD CURED SAMPLES, VERIFICATION THAT THE FOUNDATIONS, PIERS, WALLS AND MASONRY HAVE ACHIEVED SUFFICIENT STRENGTH PER OSHA REQUIREMENTS.

LIGHT GAUGE STUDS:

GENERAL:

1. ALL FRAMING MEMBERS SHALL BE SUPPLIED BY DIETRICH INDUSTRIES, OR AN EQUAL MANUFACTURER UPON APPROVAL BY THE STRUCTURAL ENGINEER. THE PHYSICAL AND STRUCTURAL PROPERTIES LISTED BY DIETRICH SHALL BE THE MINIMUM PERMITTED FOR ALL MEMBERS AND ACCESSORIES.
2. ALL MEMBERS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
- | | | |
|-------------------------------|--------------------|------------|
| 16 GA. AND HEAVIER MEMBERS | ASTM A570, GRADE D | (Fy=50ksi) |
| 20 GA. & 18 GA. MEMBERS | ASTM A570, GRADE D | (Fy=33ksi) |
| 16 GA. AND HEAVIER TRACK | ASTM A570, GRADE D | (Fy=33ksi) |
| ACCESSORIES AND OTHER MEMBERS | ASTM A611, GRADE C | (Fy=33ksi) |
3. JOIST AND WALL BRIDGING SHALL BE INSTALLED AND SPACED PER THE MANUFACTURER'S WRITTEN RECOMMENDATIONS. APPLIED FINISH MATERIALS SHALL NOT BE CONSIDERED BRIDGING OR FLANGE BRACING, UNLESS NOTED OTHERWISE.

STUDS:

1. ALL STUD FLANGES TO BE 1³" MIN.
3. ALL FIELD CUTTING OF STUDS MUST BE DONE BY SAWING OR SHEARING. DO NOT TORCH CUT COLD-FORMED MEMBERS.
4. NO NOTCHING OR COPING OF STUDS IS ALLOWED, UNLESS STATED.
5. ENDS OF STUDS MUST SEAT FIRMLY IN RUNNER TRACK, WHICH MUST HAVE FULL BEARING ON STRUCTURE.
6. SPLICING OF STUDS IS NOT ALLOWED UNLESS SPECIFICALLY NOTED IN DRAWINGS.
7. FRAMING FABRICATOR SHALL ENSURE PUNCH OUT ALIGNMENT WHEN ASSEMBLING LATERAL BRACING AND FIELD CUTTING STUDS TO LENGTH. LATERAL BRACING MUST BE INSTALLED AT THE TIME THAT THE WALL IS ERECTED.
8. TEMPORARY BRACING SHALL BE PROVIDED AND REMAIN IN PLACE UNTIL WORK IS COMPLETELY STABILIZED.
9. ALL 16 GAUGE AND HEAVIER MEMBERS SHALL BE 50 KSI (MIN.)

HEADERS:

1. ALL HEADERS SHALL BE CONSTRUCTED WITH UNPUNCHED MATERIAL.
2. DO NOT SPLICE HEADERS.

TRACKS:

1. TYPICAL FLOOR TRACKS SHALL HAVE 1 1/4" LEGS. TRACK GAUGE SHALL BE 18 GAUGE, U.N.O.
2. EXTERIOR BEARING TOP TRACKS SHALL HAVE 1 1/4" LEGS. TRACK GAUGE SHALL BE 18 GAUGE, U.N.O.

CONNECTIONS:

1. POWER DRIVEN FASTENER SYSTEMS (PDF'S) SHOT INTO CONCRETE SHALL HAVE A MINIMUM DISTANCE FROM THE FREE EDGE OF THE CONCRETE SURFACE OF AT LEAST 2 3/4" U.N.O. MINIMUM SPACING BETWEEN ADJACENT PDF'S SHOT INTO CONCRETE SHALL BE AT LEAST 2 3/4" U.N.O.
2. FOR 18 GA. AND LIGHTER FRAMING, CONNECTIONS SHALL BE MADE USING SELF-DRILLING, SELF-TAPPING SCREWS. FOR 16 GA. AND HEAVIER FRAMING, CONNECTIONS SHALL BE MADE BY WELDING, BY BOLTING, OR BY SELF-DRILLING, SELF-TAPPING SCREWS.
3. FOR SCREWS, MAINTAIN 3/4" (MIN.) CLEARANCE FROM ALL EDGES OF THE STEEL MEMBERS. MAINTAIN A 3/4" (MIN.) ON CENTER SPACING BETWEEN ADJACENT SCREWS.
4. ALL WELDED CONNECTIONS ARE TO BE PERFORMED IN ACCORDANCE TO THE LATEST VERSION OF THE AWS D1.3 SPECIFICATIONS FOR "WELDING SHEET STEEL IN STRUCTURES". CONSULT AWS D19.0 "WELDING ZINC COATED STEEL" AND ANSI STANDARD Z49.1 FOR INFORMATION REGARDING SAFE WELDING PROCEDURES.
5. MINIMUM WELD THROAT THICKNESS (t) MUST MATCH OR EXCEED THE BASE THICKNESS OF THE THINNEST CONNECTED PART U.N.O.
6. IN WELDING, THE ZINC COATING ON THE STEEL FRAMING MUST BE BURNED AWAY. A ZINC RICH PAINT MUST BE APPLIED TO THE WELD AREA FOR CORROSION RESISTANCE AFTER WELDING.
7. ALL CLIP ANGLES MUST BE 14 GAUGE U.N.O.

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CONSTRUCTION DOCUMENTS MSC # 21225

GENERAL NOTES

WOOD FRAMING

1. WOOD SPECIES AND GRADES SHALL BE AS FOLLOWS:
- A. HORIZONTAL FRAMING (JOISTS, RAFTERS, BEAMS): #2 S.Y.P. OR D.F.L., OR BETTER.
 - B. STUDS: #2 S.Y.P. OR D.F.L. OR BETTER.)
 - C. TOP PLATES: #2 S.Y.P. OR D.F.L. OR BETTER.
 - D. BOTTOM PLATES: #3 S.Y.P. OR D.F.L. OR BETTER.
 - E. ALL WOOD SHALL HAVE A MOISTURE CONTENT OF 19% MAXIMUM. SILL PLATES AND ANY OTHER MEMBER BEARING ON CONCRETE SHALL BE PRESSURE TREATED WITH DOT SODIUM BORATE (SBX). THE CONTRACTOR SHALL TAKE SPECIAL CARE TO ENSURE THAT PRESSURE TREATED WOOD IS COVERED DURING TRANSPORT AND STORAGE AT THE JOB SITE.
2. PROVIDE BLOCKING OR A BAND BOARD AT ALL JOIST AND RAFTER BEARING LOCATIONS AND IN THE CENTER OF ALL SPANS OVER 8'-0". MAXIMUM DISTANCE BETWEEN BRIDGING AND BEARING SHALL BE 8'-0".
3. PLACE A SINGLE PLATE AT THE BOTTOM AND A DOUBLE PLATE AT THE TOP OF ALL STUD WALLS. SILL PLATES SHALL BE BOLTED TO FOUNDATION BEAM WITH 1/2" DIAMETER ANCHOR BOLTS EMBEDDED SEVEN INCHES MINIMUM AT A MAXIMUM SPACING OF 48" O.C. PROVIDE A MINIMUM OF TWO BOLTS PER PIECE WITH ONE BOLT LOCATED NOT MORE THAN 12" OR LESS THAN FOUR INCHES FROM EACH END OF PIECE. ANCHOR BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM A653, G185.
4. STUDS SHALL BE DOUBLED AT ALL ANGLES, CORNERS AND AROUND ALL OPENINGS.
5. UNLESS OTHERWISE SHOWN ON PLANS, WOOD HEADERS SHALL BE AS FOLLOWS:
- A. 2X6 WALLS
 - (3)-2X6's <4'-0"
 - (3)-2X8's 4'-0" TO 5'-0"
 - (3)-2X10's 5'-0" TO 6'-0"
 - (3)-2X12's 6'-0 to 7'-0"
 - B. ALL HEADERS SHALL HAVE A 1/2" PLYWOOD SPACER FULL LENGTH BETWEEN PLYS. DOUBLE HEADERS SHALL BE NAILED TOGETHER WITH 8d NAILS @ 12" O.C. STAGGERED FULL LENGTH OF BEAM.
6. UNLESS OTHERWISE DETAILED, FLOOR AND ROOF JOIST FLUSH TYPE CONNECTIONS SHALL USE TYPE LUS JOIST HANGERS AS MANUFACTURED BY THE SIMPSON COMPANY OR EQUIVALENT. THE TYPE HANGER USED SHALL BE AS RECOMMENDED BY THE MANUFACTURER FOR THE SIZE JOIST SUPPORTED.
7. UNLESS OTHERWISE NOTED ON THE DRAWINGS ALL CANTILEVERED JOISTS SHALL EXTEND INTO THE BUILDING A DISTANCE EQUAL TO THE CANTILEVER. CANTILEVERED JOISTS RUNNING PERPENDICULAR TO FRAMING INSIDE THE BUILDING SHALL BE CONNECTED TO INSIDE MEMBERS WITH STANDARD JOIST HANGERS. CANTILEVERED JOISTS RUNNING PARALLEL TO FRAMING INSIDE THE BUILDING SHALL BE NAILED TO THE SIDE OF INSIDE MEMBERS WITH 10d NAILS AT 12" O.C. TOP AND BOTTOM.
8. ALL LVL BEAMS SHALL BE 2.0E WEYERHAEUSER. LVL HANGERS SHALL BE MIU SERIES AS MANUFACTURED BY THE SIMPSON COMPANY OR EQUIVALENT. THE TYPE HANGER USED SHALL BE AS RECOMMENDED BY THE MANUFACTURER FOR THE SIZE LVL SUPPORTED.
9. ALL EXTERIOR LOAD BEARING WALLS SHALL BE:
- A. 2X6 @16" O.C. FOR PLATE HEIGHTS 11 FEET OR LESS
 - B. 2X6 @9" O.C. FOR PLATE HEIGHTS OVER 11 FEET.
10. AT HEADERS, PROVIDE:
- A. ONE JAMB STUD PLUS ONE CONTINUOUS STUD FOR OPENINGS 4'-0" WIDE OR LESS.
 - B. PROVIDE TWO JAMB STUDS AND TWO CONTINUOUS STUDS FOR OPENINGS 4'-1" TO 7'-0" WIDE.
 - C. PROVIDE THREE JAMB STUDS AND THREE CONTINUOUS STUDS FOR OPENINGS 7'-1" TO 10'-0" WIDE.
11. PROVIDE ALL BLOCKING AND FIRE STOPS REQUIRED BY THE BUILDING OFFICIAL AND/OR TRUSS MANUFACTURER.
12. PROVIDE FRAMING AND BLOCKING TO SUPPORT ALL EDGES OF OPENINGS IN THE PLYWOOD ROOF DECK.
13. UNLESS OTHERWISE NOTED, ALL TIMBER CONNECTIONS SHALL BE NAILED IN CONFORMANCE WITH THE INTERNATIONAL BUILDING CODE, TABLE 2304.9.1.
14. FOR BEAMS AND GIRDERS PERPENDICULAR TO WALLS, PROVIDE ONE STUD FOR EACH 1 1/2" OF BEAM WIDTH.
15. ALL MEMBERS DESIGNATED LVL. SHALL BE MICRO-LAM BEAMS AS MANUFACTURED BY THE TRUSS JOIST CORPORATION, OR MEMBERS WITH EQUIVALENT LOAD CARRY PROPERTIES.
16. ALL MEMBERS EXPOSED TO DIRECT SUNLIGHT AND/OR RAIN SHALL BE PRESSURE TREATED ACCORDING TO A.N.P.A. STANDARDS, AND A.I.T.C. STANDARD
17. EXTERIOR MEMBERS NOT EXPOSED TO DIRECT SUNLIGHT OR RAIN, AND NOT PRESSURED TREATED SHALL BE PROTECTED WITH A WATER REPELLENT PAINT OR SEALER THAT IS COMPATIBLE WITH ARCHITECTS SPECIFIED APPEARANCE. SUBMIT PROPOSED PAINT AND/OR SEALANT TO ARCHITECT FOR REVIEW AND APPROVAL. UPON COMPLETION OF THE PROJECT, CONTRACTOR SHALL PROVIDE OWNER WITH PAINT AND/OR SEALANT MANUFACTURERS RECOMMENDATION FOR PERIODIC MAINTENANCE AND RECOMMENDED SCHEDULE FOR REAPPLICATION.

ROOF DECK NOTES

1. PROVIDE 1/2" APA RATED SHEATHING 32/16 EXPOSURE I.
2. DECK IS TO BE INSTALLED WITH PANEL LONG DIMENSION PERPENDICULAR TO TRUSS DIRECTION AND STAGGER PANELS.
- *3. NAIL PLYWOOD ROOF DECK TO WOOD FRAMING AND BLOCKING WITH 8d COMMON NAILS AT 6" O.C. AT ALL DIAPHRAGM BOUNDARIES AND PANEL EDGES. SPACE NAILS AT 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS.
4. ALL INTERMEDIATE PANEL EDGES SHALL BE ATTACHED BY CLIPS.

STANDARD FLOOR DECK NOTES

1. PROVIDE 23/32" T&G APA RATED STURD-I-FLOOR
2. DECK IS TO BE INSTALLED WITH PANEL LONG DIMENSION PERPENDICULAR TO FRAMING DIRECTION AND STAGGER PANELS.
3. BEFORE EACH PANEL IS PLACED, A LINE OF GLUE SHALL BE APPLIED TO THE JOISTS WITH A CAULKING GUN.
4. NAIL PLYWOOD DECK TO WOOD FRAMING AND BLOCKING WITH 10d RING OR SCREW-SHANK NAILS AT 6" O.C. AT ALL DIAPHRAGM BOUNDARIES AND PANEL EDGES. SPACE NAILS AT 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS.

WALL SHEATHING NOTES

1. PROVIDE 7/16" APA RATED SHEATHING, EXPOSURE I.
2. ALL PANEL EDGES SHALL BE BLOCKED.
- *3. ATTACH SHEATHING TO FRAMING MEMBERS WITH 8d COMMON OR GALVANIZED BOX NAILS AT 6" O.C. STAGGER NAILS AT PANEL EDGES. SPACE NAILS AT 6" O.C. AT ALL INTERMEDIATE FRAMING MEMBERS.

ENGINEERING REQUIREMENT

GENERAL

1. FRAMING MEMBERS SHALL BE AS NOTED ON THE ARCHITECTURAL DOCUMENTS, UNLESS NOTED OTHERWISE
2. DO NOT CONNECT FRAMING TO THE PRIMARY STRUCTURAL FRAMING AT LOCATIONS OR IN WAYS NOT SPECIFICALLY INDICATED IN THE DETAILS
3. ALL CONNECTIONS TO PRIMARY STRUCTURE SHALL BE DESIGNED AS PINNED CONNECTIONS. DO NOT DELIVER MOMENT TO PRIMARY STRUCTURE UNLESS SPECIFICALLY INDICATED.
4. DO NOT CONNECT FRAMING TO THE BOTTOM FLANGE OF BEAMS UNLESS SPECIFICALLY INDICATED IN STRUCTURAL DETAILS

LOADS

1. WIND LOADS GIVEN IN THESE DOCUMENTS ARE BASED ON A COMPONENT AND CLADDING TRIBUTARY AREA OF 10 SQUARE FEET. REDUCTION IN LOADS BASED ON TRIBUTARY AREA ARE ALLOWED AS PERMITTED IN THE GOVERNING BUILDING CODE.
2. CALCULATE AND APPLY TO COLD FORMED STEEL FRAMING HEADERS, SILLS & JAMBS CUMULATIVE LINE AND CONCENTRATED TRIBUTARY LOADS FROM CLADDING DEAD LOAD AND WIND PRESSURES ON WINDOWS, LOUVERS, DOORS, AND OTHER OPENINGS
3. COORDINATE MULLION AND JAMB LOCATIONS WITH THE GENERAL CONTRACTOR
4. CONTRACTOR SHALL ACCOUNT FOR LOCALIZED LOADS AND MOMENTS DUE TO ECCENTRICALLY APPLIED LOADS SUCH AS SLIP CONNECTIONS AND WINDOW HEAD TRACKS

PRIMARY FRAME DEFLECTIONS

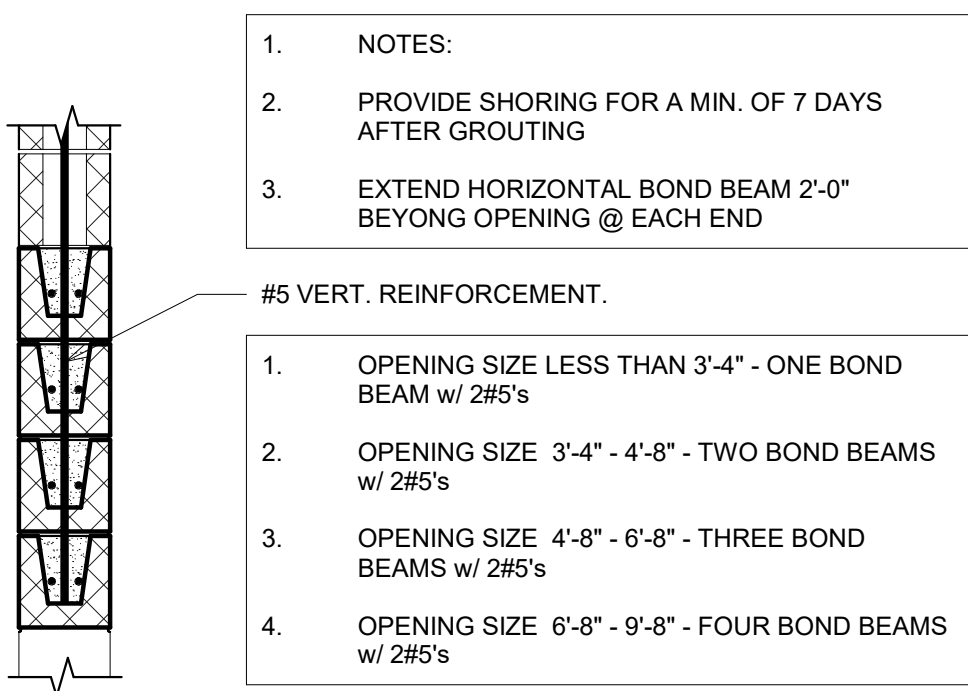
1. PROVIDE VERTICAL SLIP CONNECTIONS AND DEFLECTION TRACKS AS NEEDED TO ACCOMMODATE VERTICAL DEFLECTIONS OF THE PRIMARY STRUCTURAL FRAMING. UNLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING ALLOWANCES FOR VERTICAL DEFLECTION OF THE PRIMARY STRUCTURAL FRAMING:
2. AT EXTERIOR / SPANDREL INFILL FRAMING: 3/4"
3. AT EXTERIOR / SPANDREL BYPASS FRAMING: 3/4"
- VERTICAL DEFLECTION CRITERIA: DESIGN COLD FORMED METAL FRAMING HEADERS TO MEET THE FOLLOWING VERTICAL DEFLECTION CRITERIA:
1. FOR STUDS SUPPORTING MASONRY VENEER = SPAN / 600
2. FOR STUDS SUPPORTING THIN SET ADHERED VENEER = SPAN / 360
3. FOR STUDS SUPPORTING OTHER = SPAN / 240

HORIZONTAL DEFLECTION CRITERIA: DESIGN COLD FORMED METAL FRAMING MEMBERS TO MEET THE FOLLOWING HORIZONTAL DEFLECTION CRITERIA:

1. FOR STUDS BACKING-UP MASONRY VENEER = SPAN / 600
2. FOR STUDS BACKING-UP STUCCO OR THIN SET ADHERED VENEER = SPAN / 360
3. FOR STUDS BACKING-UP OTHER = SPAN / 240
4. PER IBC TABLE 1604.3 FOOTNOTE F, WIND LOAD IS PERMITTED TO BE TAKEN AS 0.42 TIMES THE COMPONENT AND CLADDING ULTIMATE LOADS FOR THE PURPOSE OF DETERMINING DEFLECTION LIMITS.

NAILING SCHEDULE		
NO.	CONNECTION	NAILING
1.	JOIST TO SILL OR GIRDER, TOENAIL	3-8d
2.	BRIDGING TO JOIST, TOENAIL EACH JOIST, FACE NAIL	2-8d
3.	1"x6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL	2-8d
4.	WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST, FACE NAIL	3-8d
5.	2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	2-16d
6.	SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d @ 16" O.C.
7.	TOP PLATE TO STUD, END NAIL	2-16d
8.	STUD TO SOLE PLATE	4-8, TOENAIL OR 2-16d, END NAIL
9.	DOUBLE STUDS, FACE NAIL	16d @ 24" O.C.
10.	DOUBLED TOP PLATES, FACE NAIL	16d @ 16" O.C.
11.	TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	2-16d
12.	CONTINUOUS HEADER, TWO PIECES	16d @ 16" O.C. ALONG EA. EDGE
13.	CEILING JOISTS TO PLATE, TOENAIL	3-8d
14.	CONTINUOUS HEADER TO STUD, TOENAIL	4-8d
15.	CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3-16d
16.	CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	3-16d
17.	RAFTER TO PLATE, TOENAIL	3-8d
18.	1" BRACE TO EACH STUD AND PLATE, FACE NAIL	2-8d
19.	1"x8" SHEATHING TO EACH BEARING, FACE NAIL	2-8d
20.	WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL	2-8d
21.	BUILT-UP CORNER STUDS	2-8d, 16d @ 24" O.C.

CMU HEADER SCHEDULE

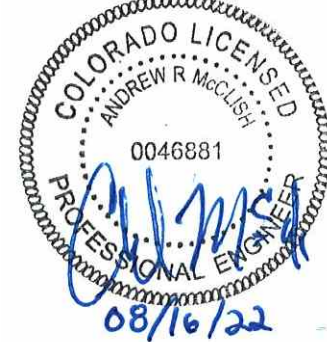


SHEAR WALL SCHEDULE									
MARK (WALL TYPE)	LEVEL	SHEATHING TYPE	SCREW SIZE	SPACING @ EDGES	END CHORD	SIMPSON HOLD DOWN	SILL ANCHORS	BLOCKED	NOTES
			PENETRATION						
			#8 1" MIN						
GYP	1ST TO ROOF	5/8" TYPE X		6"	JAMB/BOX STUD	S/HDU6	N/A	BLOCKED	FLAT HEAD SELF DRILLING

- NOTES:
1. BLOCKED PANEL EDGES SHALL BE BACKED w/ 2" NOMINAL BRACING
2. OSB SHEATHING FASTENER SPACING @ INTERMEDIATE SUPPORTS TO BE 12" OC.
3. GYPBOARD FASTENER SPACING @ INTERMEDIATE SUPPORTS TO BE 7" OC.

GENERAL NOTES

Issue	Date
11/05/21	
REVISIONS	
City Comments	5/27/22
Client Revisions	6/13/22
City Comments	6/16/22



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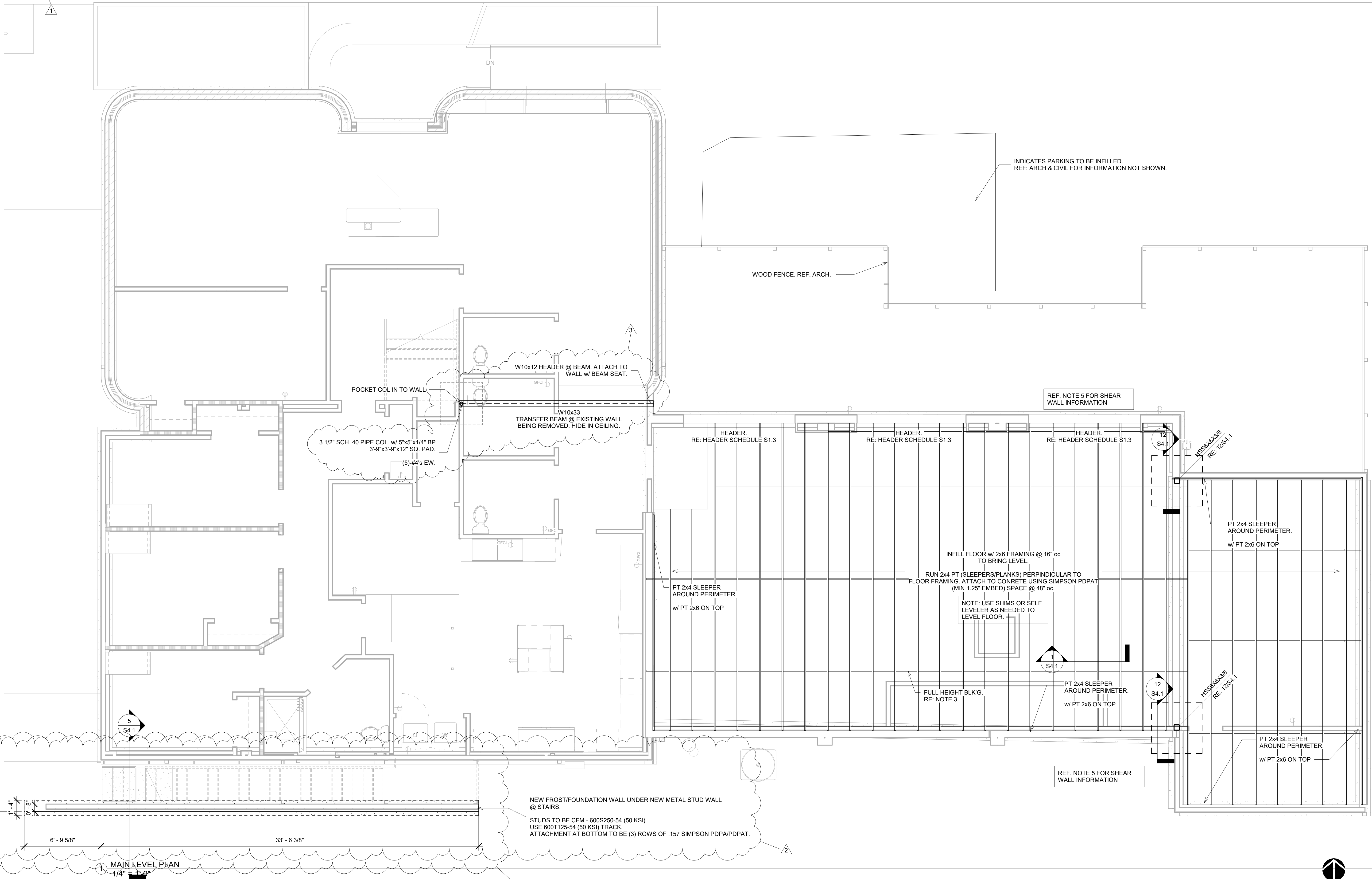
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S1.4

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CONSTRUCTION DOCUMENTS MSC # 21225



PLAN NOTES:

1. REF S1. FOR GENERAL NOTES
2. GC TO FIELD VERIFY ALL CONDITIONS PRIOR TO CONSTRUCTION
3. PROVIDE BLOCKING @ 8'-0" OC MAX @ ALL FLOOR JOISTS
4. CONTRACTOR TO CHECK ALL FLOOR SHEATHING FOR MOISTURE & ROT. IF SHEATHING IS ROTTED REPLACE AS NEEDED PER THE GENERAL NOTES.
5. SHEAR WALL SCHEDULE ON S1.3

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Issue Date
01/20/2022
REVISIONS
City Comments - 5/27/22
Client Revisions - 6/13/22
City Comments - 6/16/22



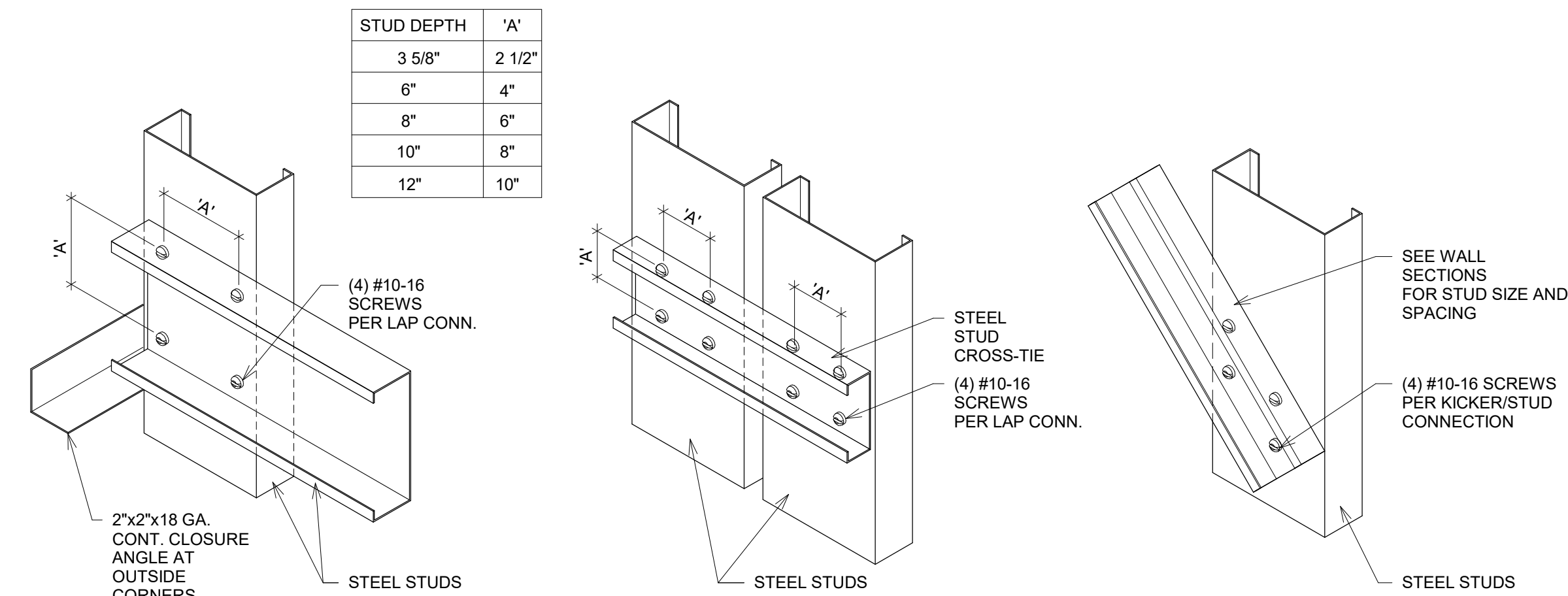
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S2.1

CONSTRUCTION DOCUMENTS	MSC # 21225
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TYPICAL LAP

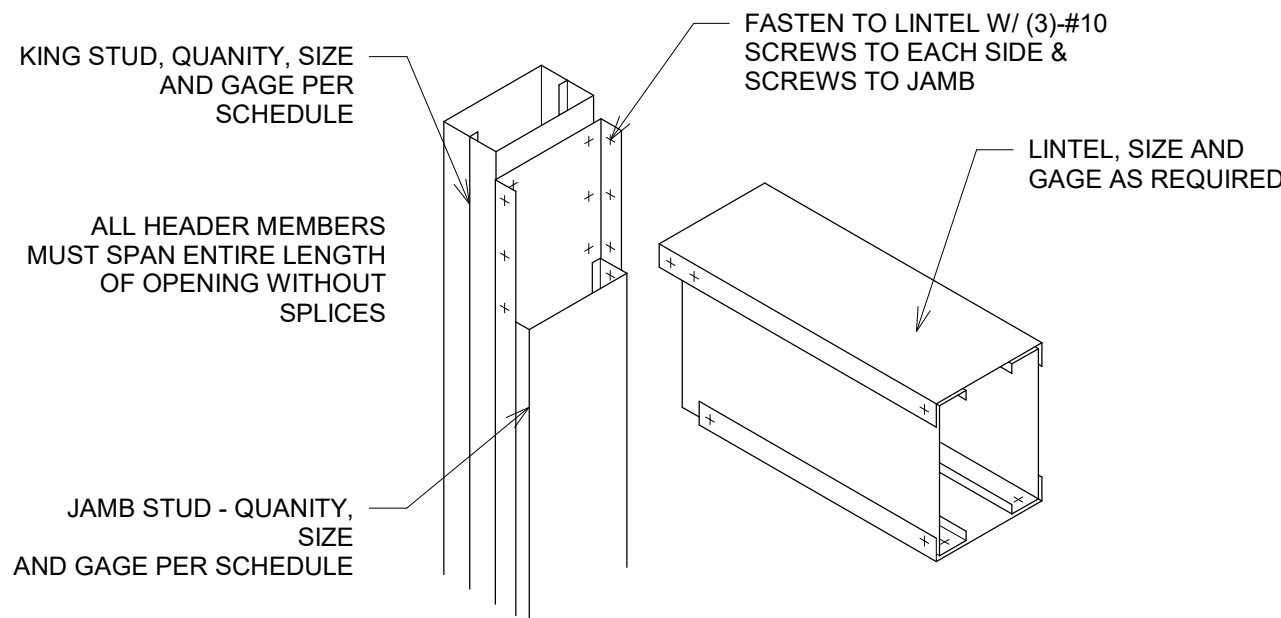
CROSS-TIE LAP

DIAGONAL LAP

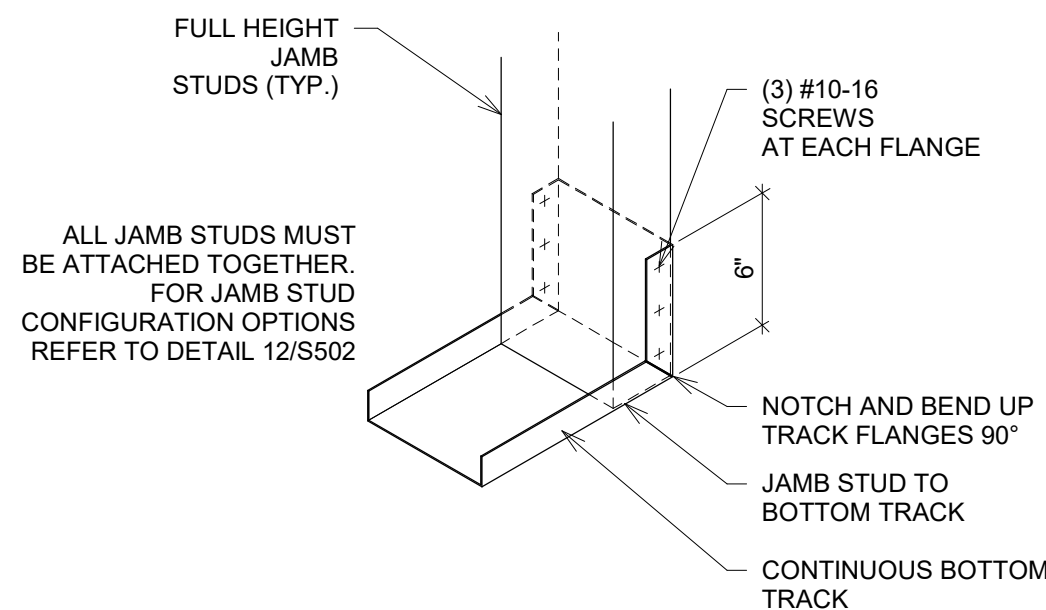
1
S4.2
CFM - LAP CONNECTIONS
N.T.S.

EXTERIOR HEADER AND STUD SCHEDULE AT OPENINGS	
HEADER	JAMB STUD AND KING STUD
AT OPENINGS UP TO 4'-0"	AT OPENINGS UP TO 4'-0"
6"-18 GA. C-STUD #10 TEK SCREWS @ 12" O.C. ~TYP. 6"-18 ga. TRACK	2-6" (18GA.) TSA TRACK JAMB STUD & 2-6" (18GA.) KING STUD
AT OPENINGS GREATER THAN 4'-6" UP TO 8'-0"	AT OPENINGS GREATER THAN 4'-6" UP TO 8'-0"
10"-14 GA. C-STUD #10 TEK SCREWS @ 12" O.C. ~TYP. 6"-18 ga. TRACK	3-6" (18GA.) TSA TRACK JAMB STUD & 3-6" (18GA.) KING STUD

1. ALL FRAMING SHALL CONFORM TO "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURE" AND "ASTM C955"

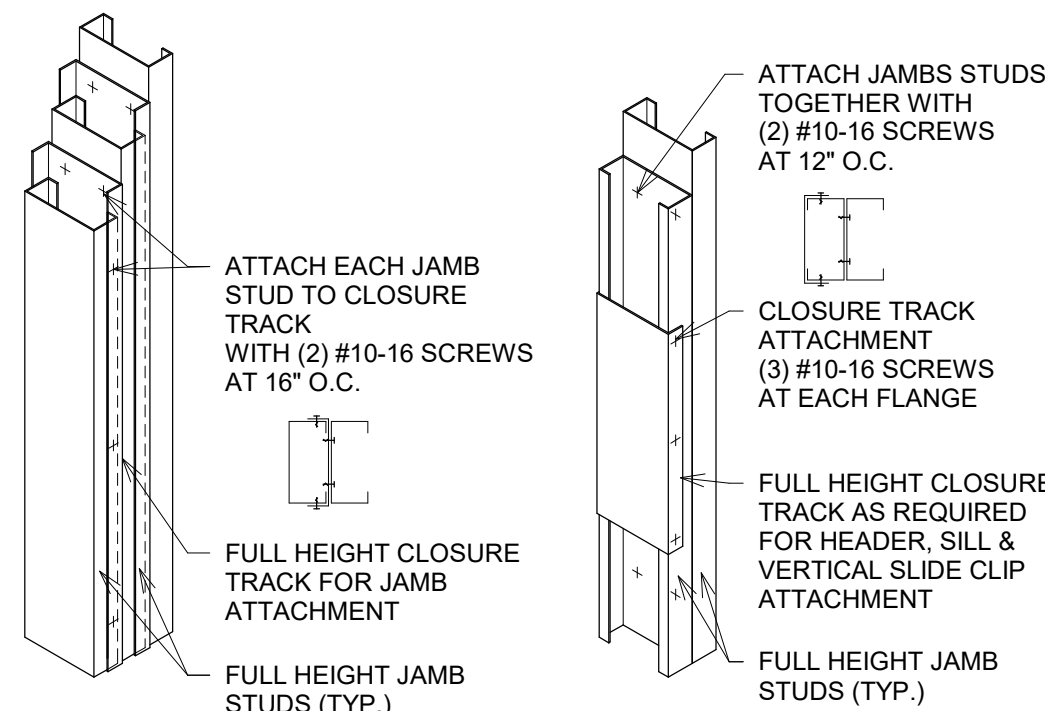


2
S4.2
CFM - HEADER DETAIL
N.T.S.



LOCATION	NUMBER OF FASTENER REQ'D
TYPICAL FRAMING	(2) 0.145" DIA. P.D.F.'S AT EACH STUD
JAMB STUDS	(4) 0.145" DIA. P.D.F.'S AT EACH JAMB

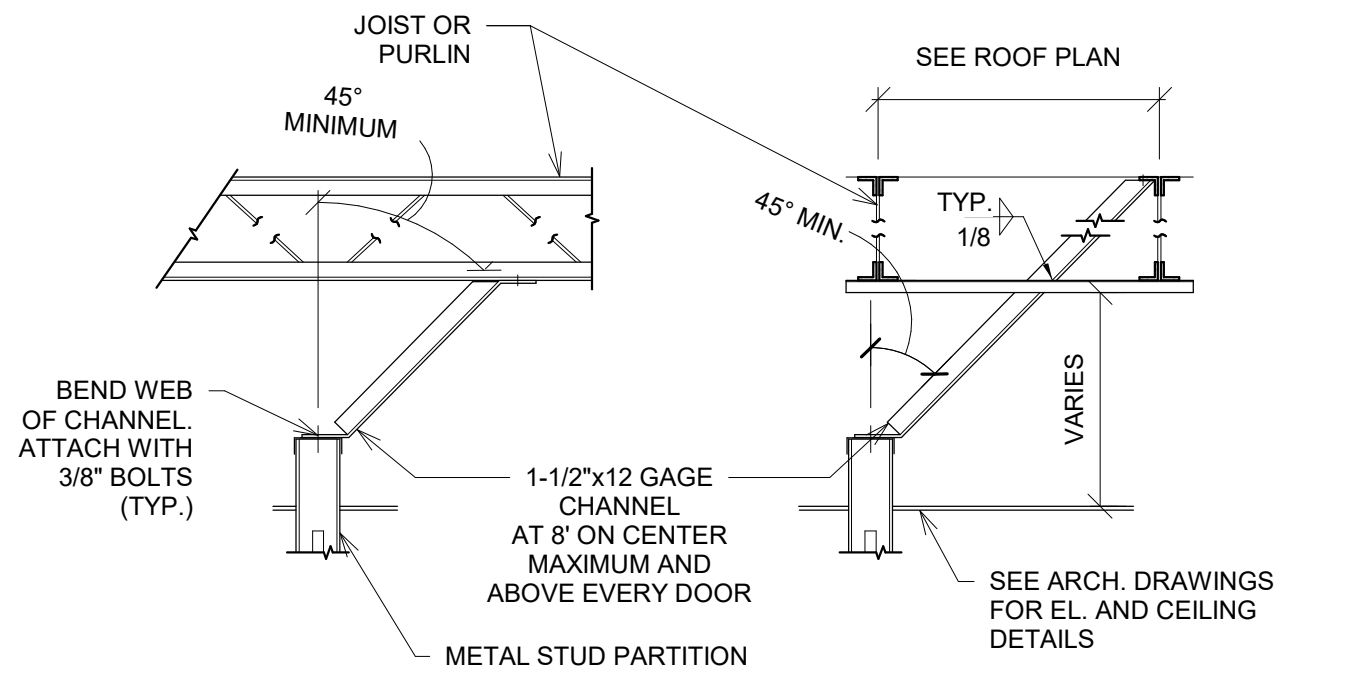
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S4.2
CFM - TRACK @ DOOR JAMB
N.T.S.



OPTION A

OPTION B

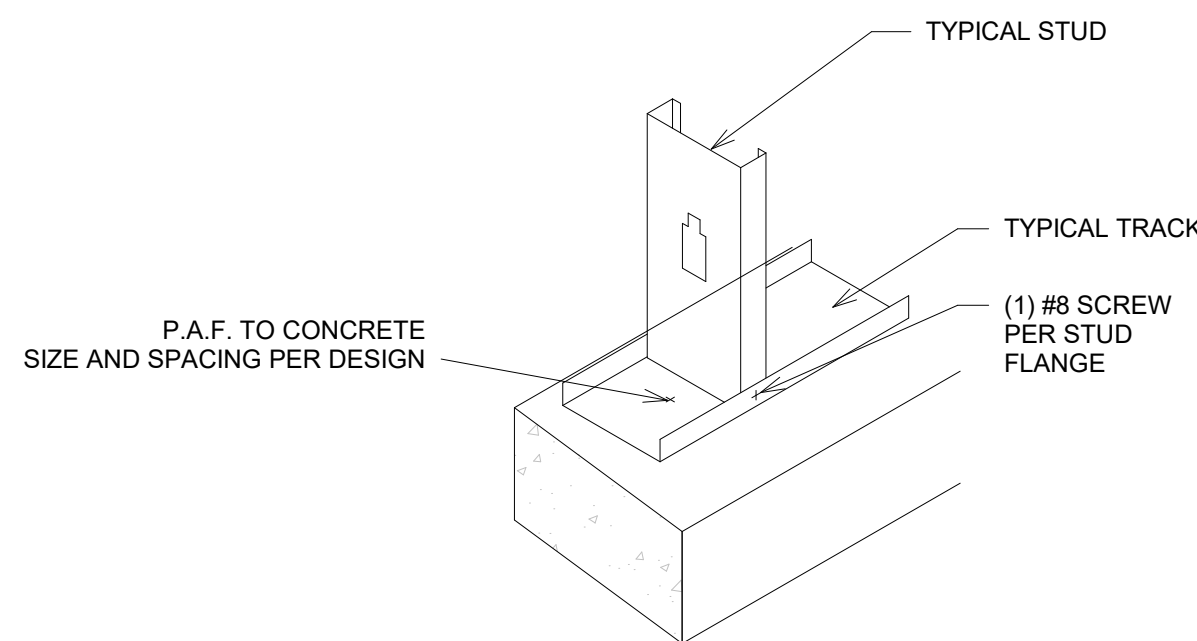
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S4.2
CFM - JAMB ATTACHMENTS
N.T.S.



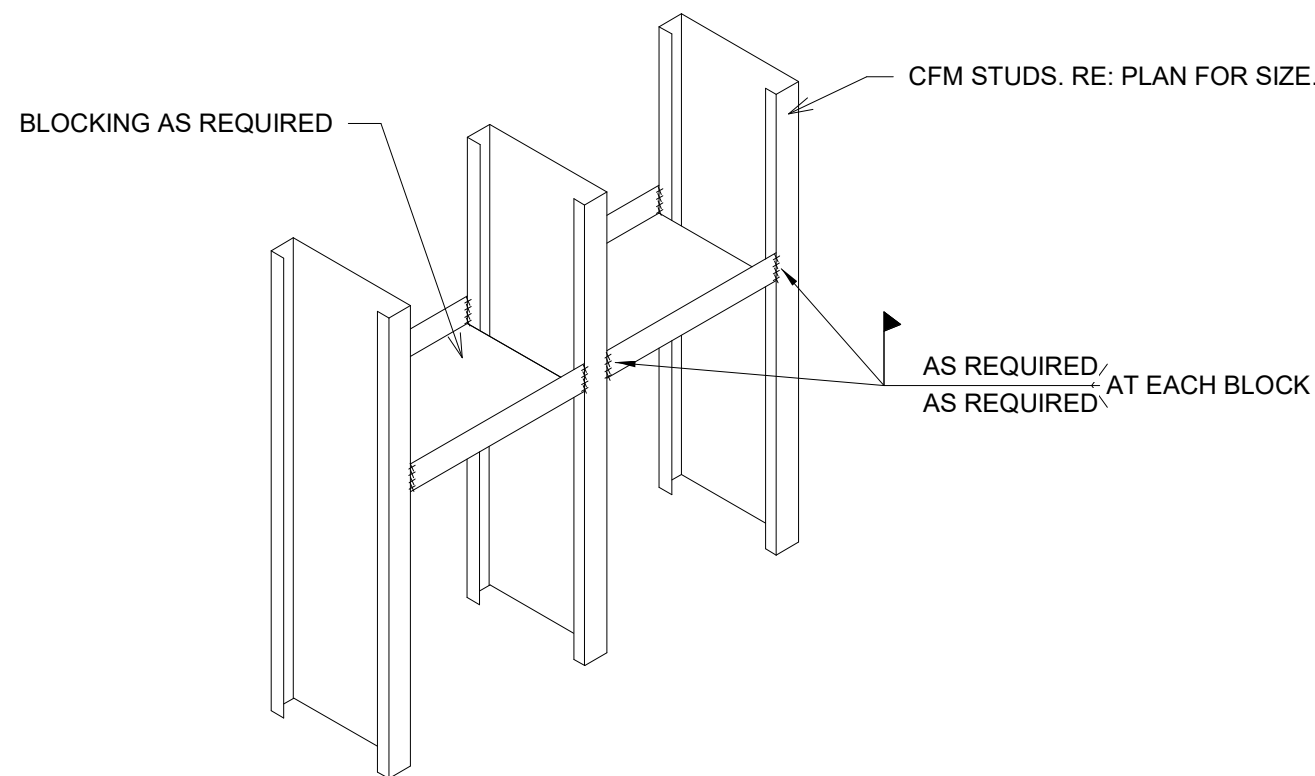
PERPENDICULAR TO JOIST

PARALLEL TO JOIST

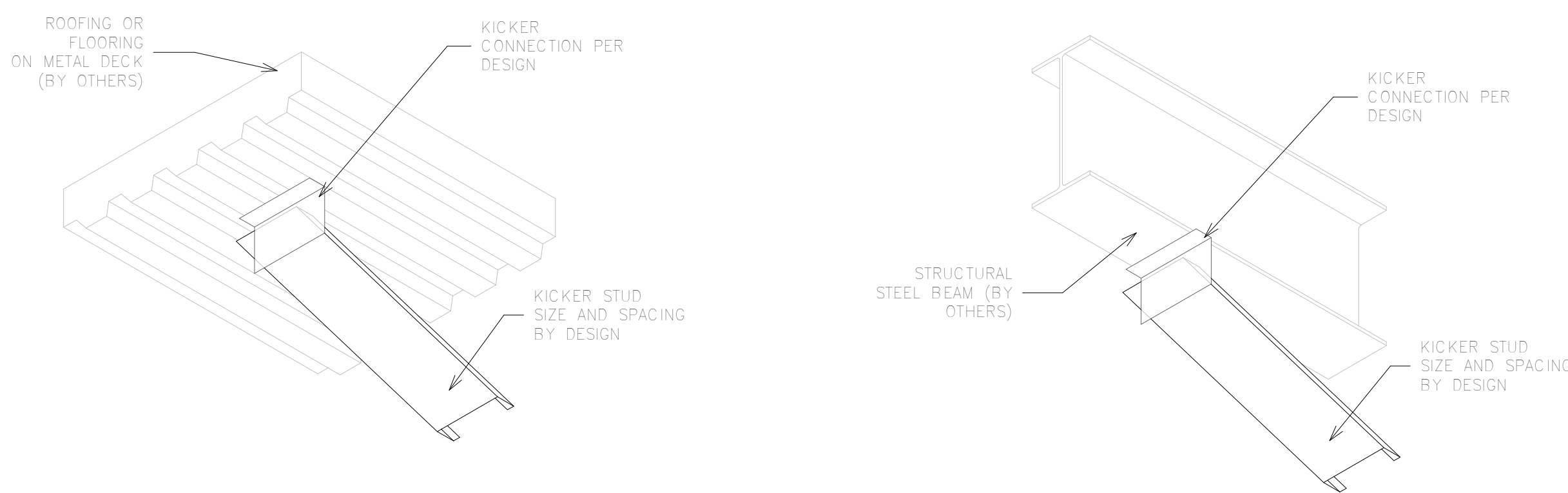
6
S4.2
CFM - LATERAL SUPPORT @
INTERIOR STUD PARTITION
N.T.S.



7
S4.2
CFM - TYPICAL BASE
N.T.S.



8
S4.2
CFM - SOLID BLOCKING
N.T.S.



9
S4.2
CFM - KICKER DETAIL
N.T.S.

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Issue Date
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REVISIONS
City Comments - 5/27/22
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City Comments - 6/16/22

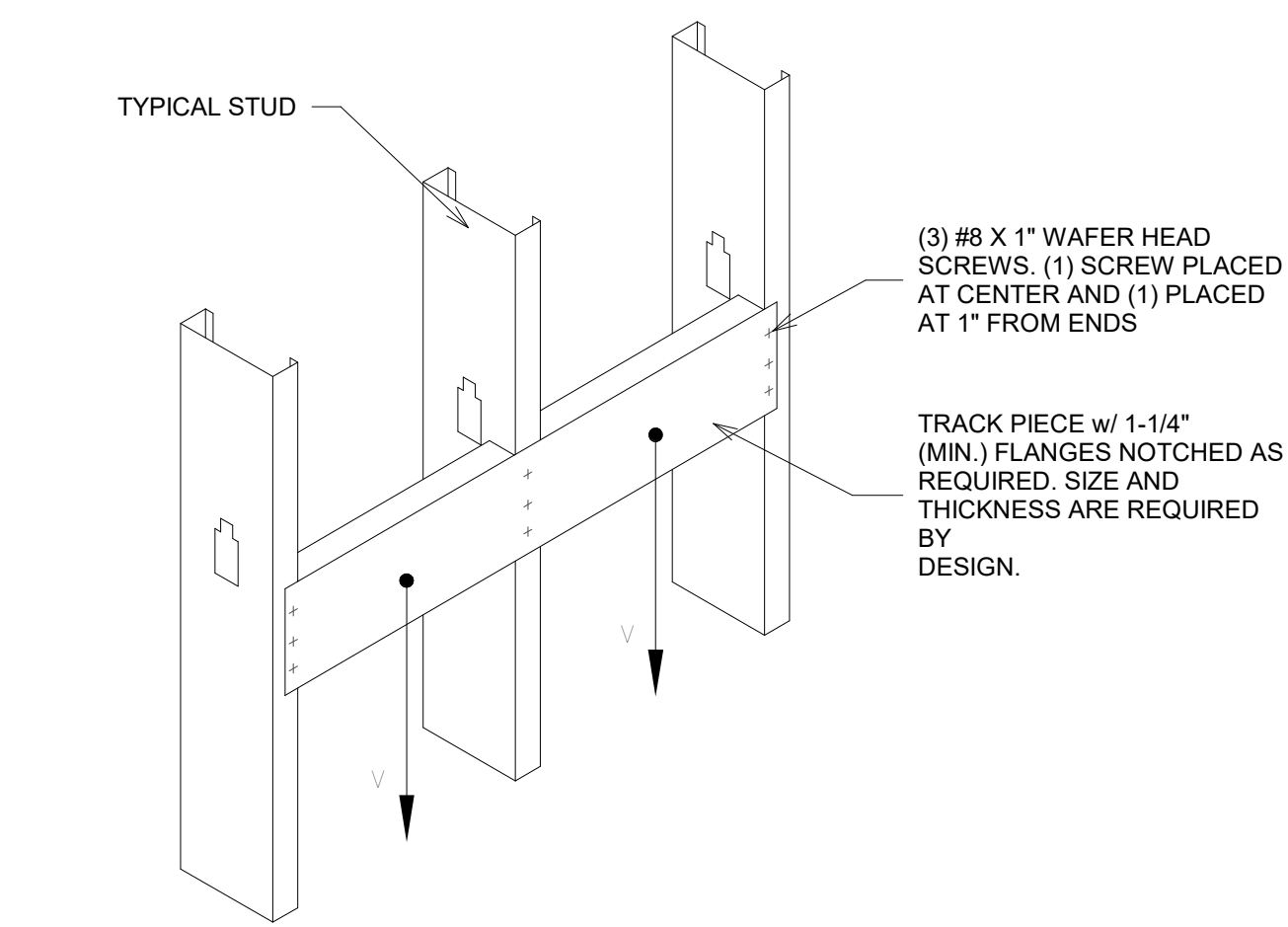


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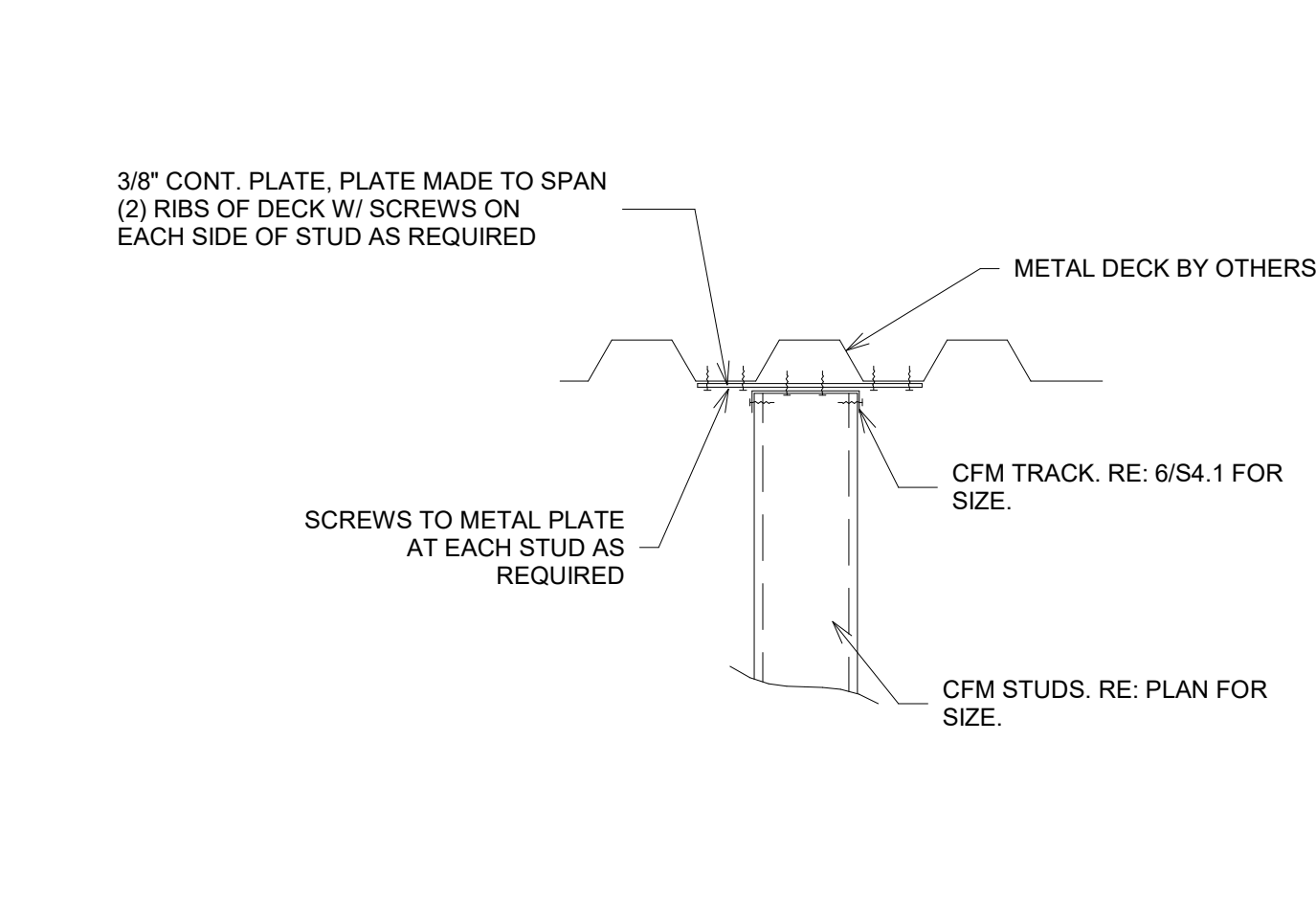
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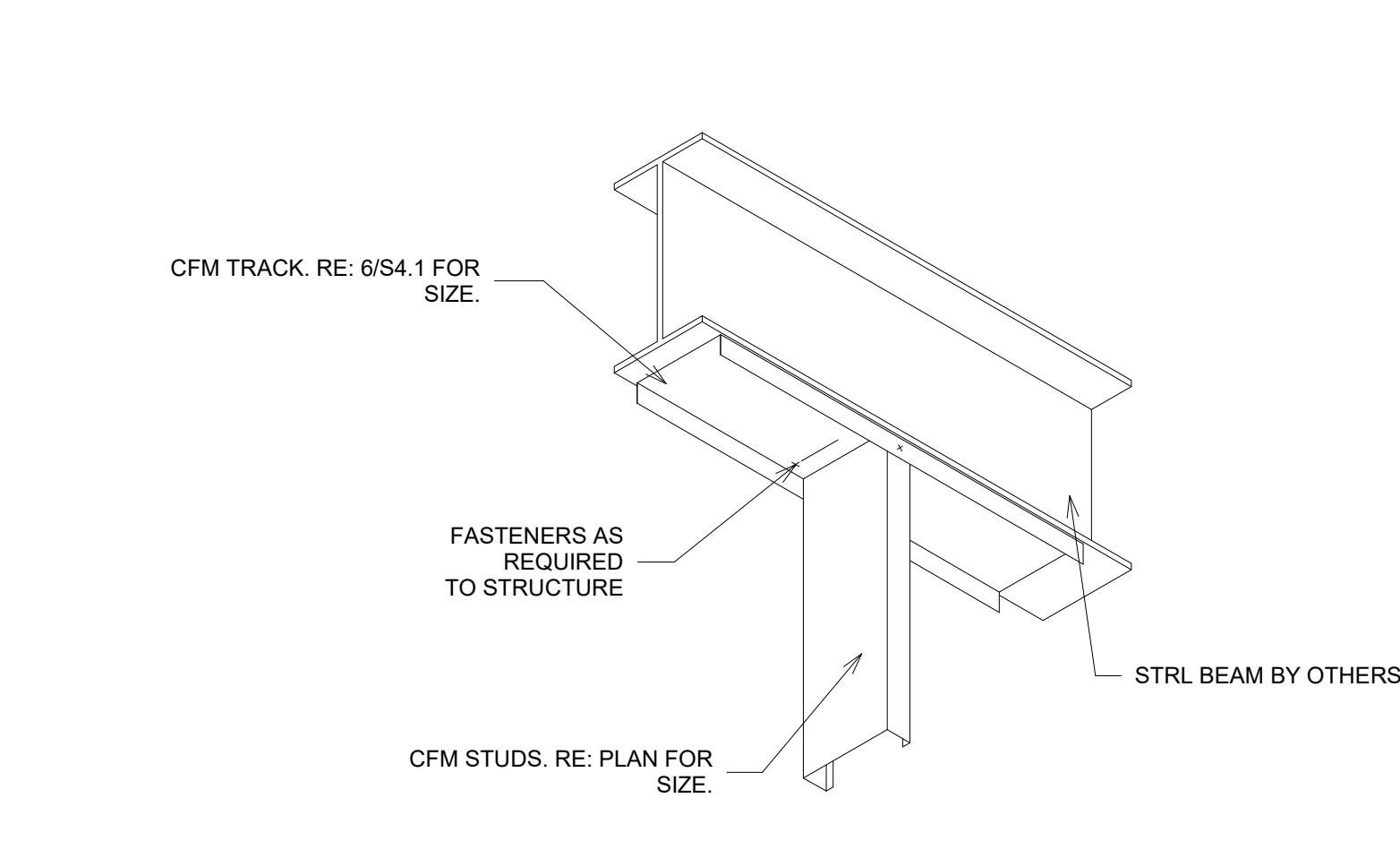
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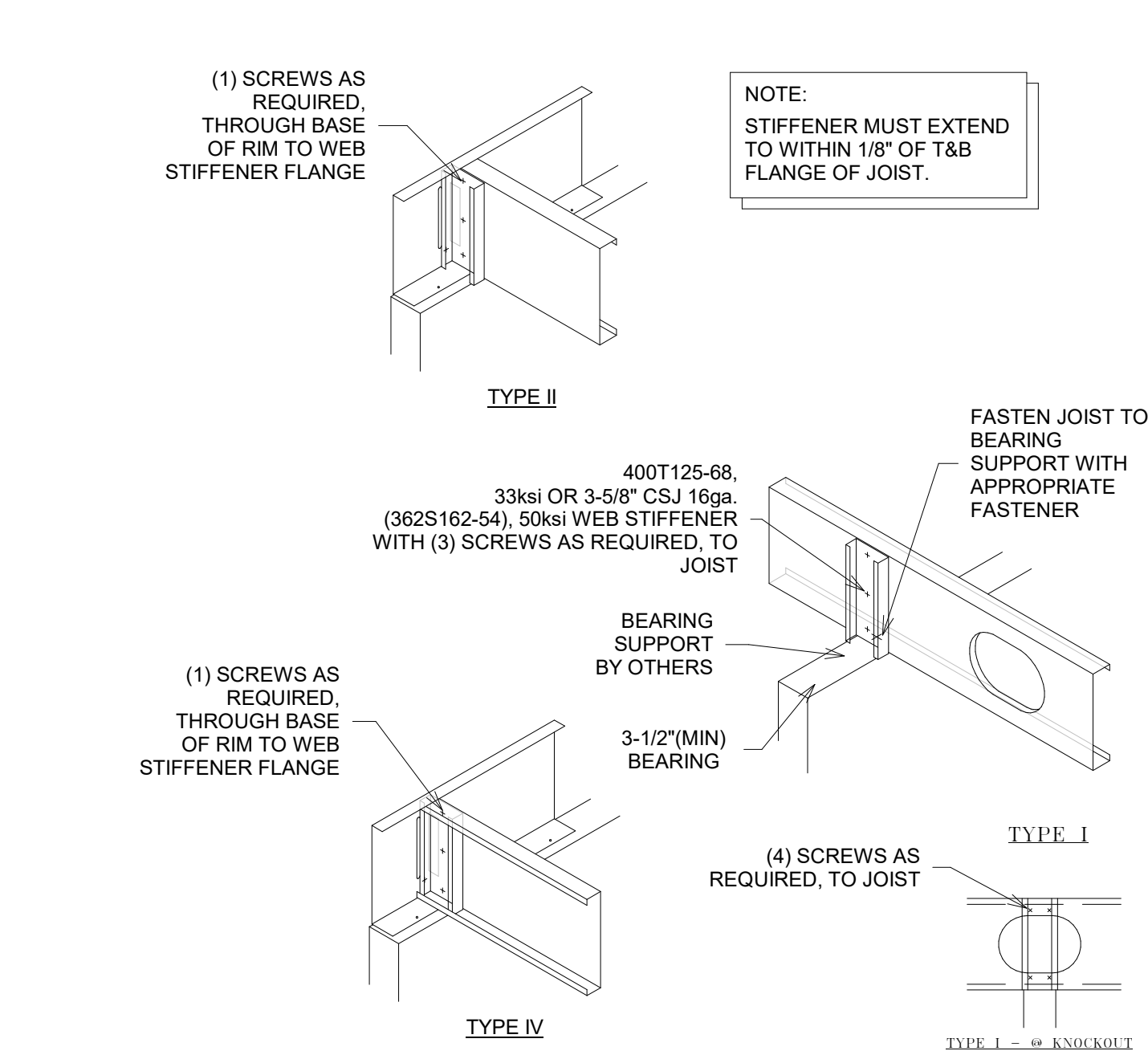
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S4.3
CFM - BACKING PLATE
N.T.S.



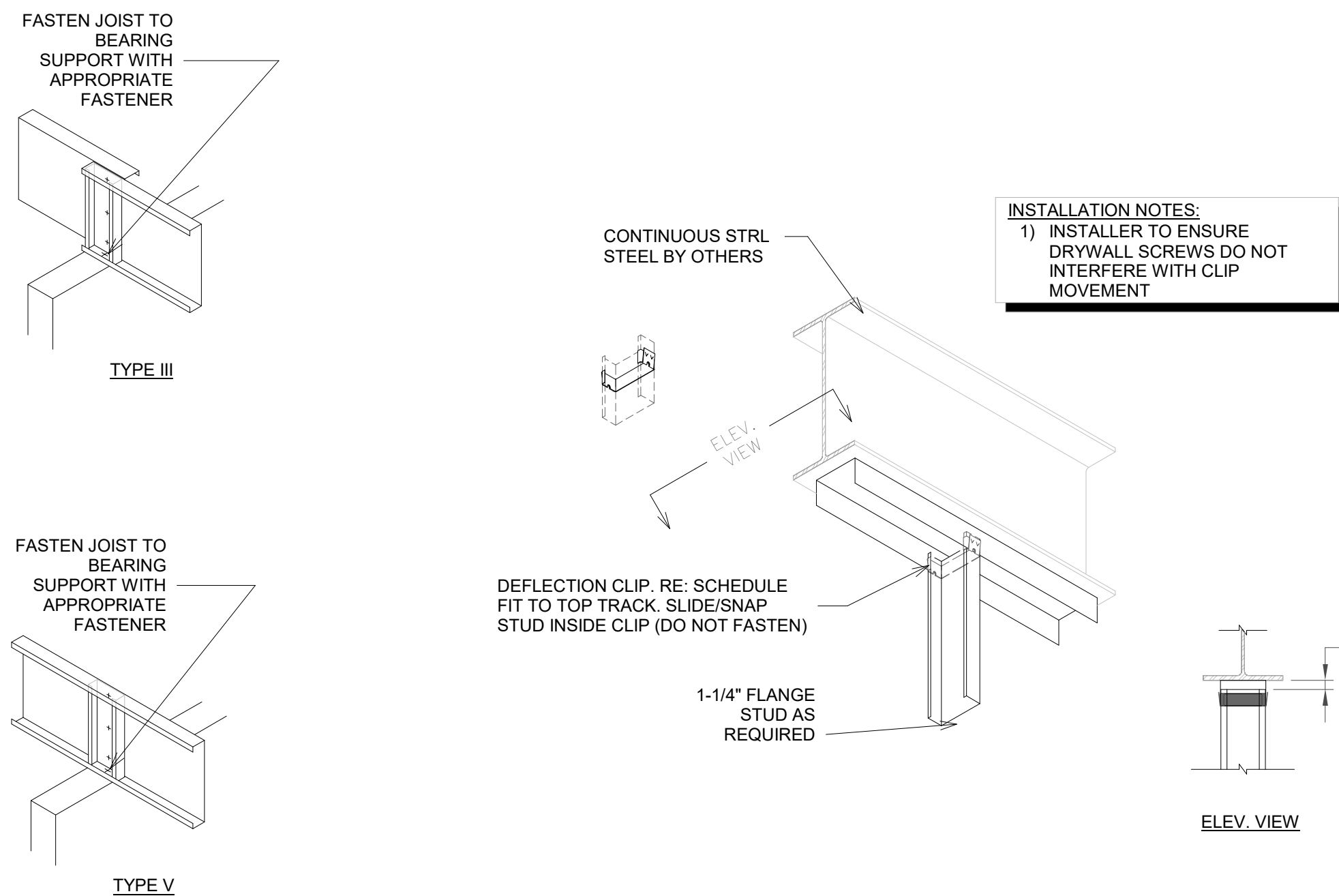
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S4.3
CFM - CONNECTION TO METAL DECK
N.T.S.



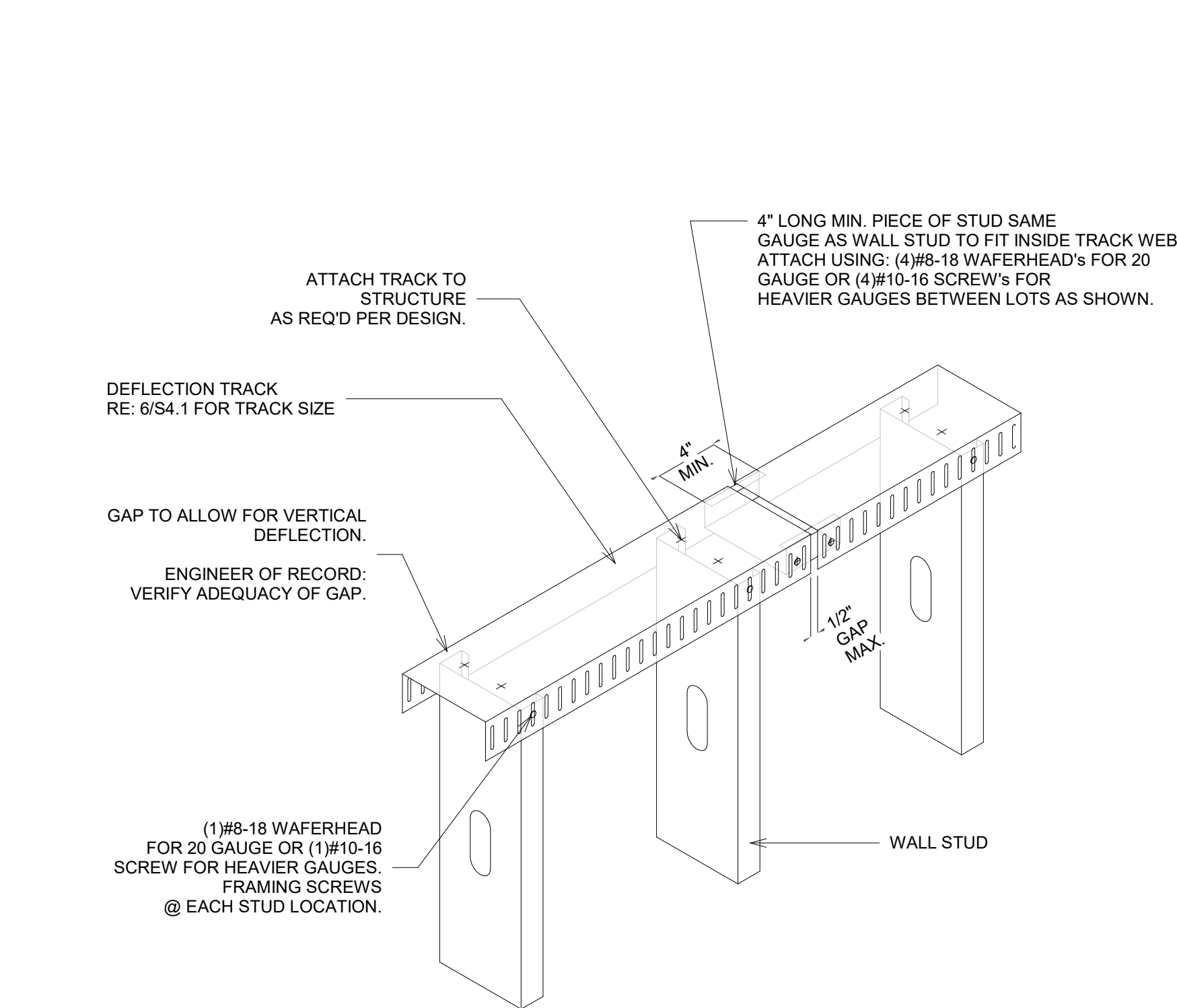
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S4.3
CFM - CONNECTION TO STRUCTURAL STEEL
N.T.S.



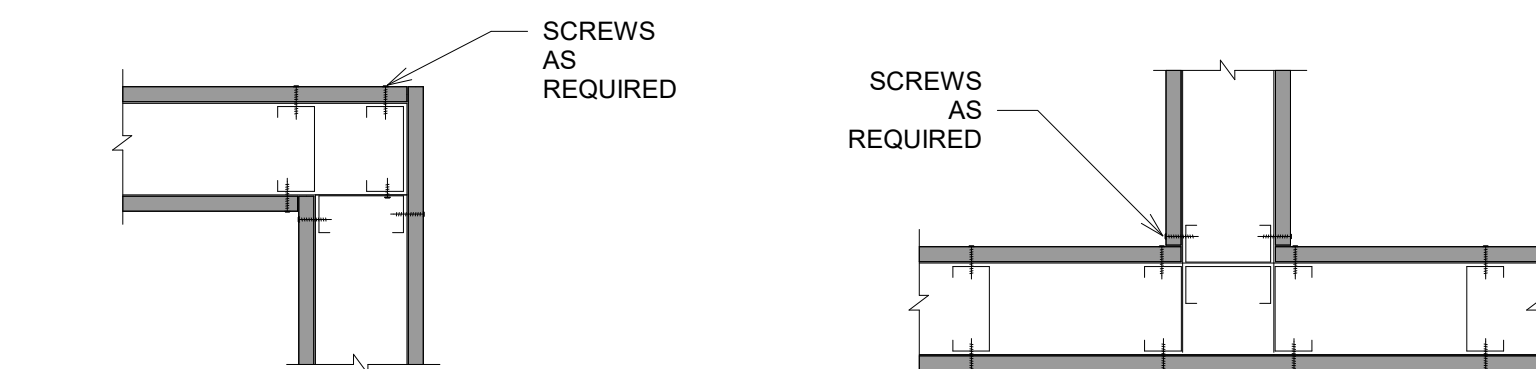
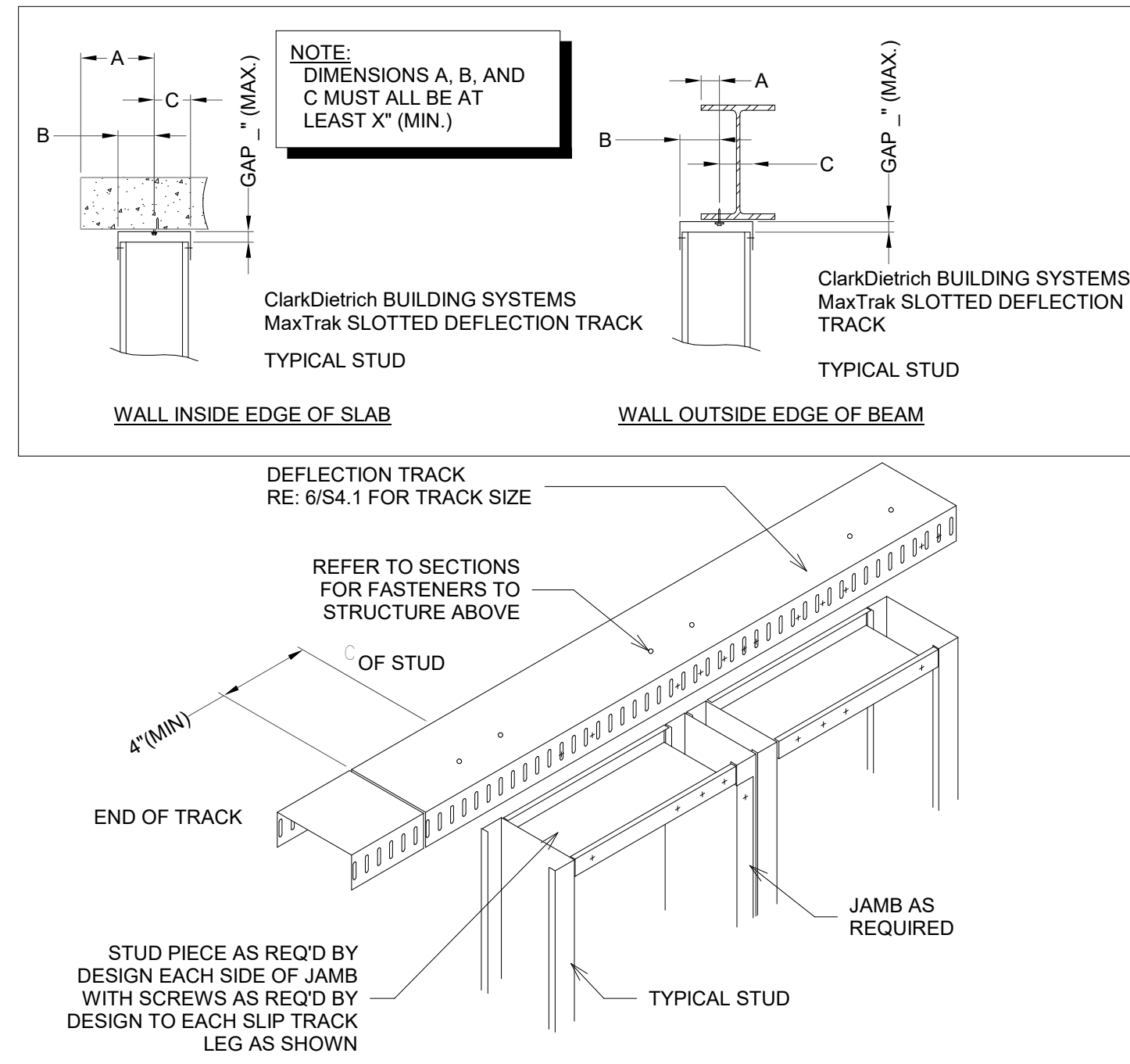
5
S4.3
CFM - WEB STIFFENER
N.T.S.



6
S4.3
CFM - DEFLECTION CLIP
N.T.S.



7
S4.3
CFM - DEFLECTION TRACK
N.T.S.



8
S4.3
CFM - CORNER & INTERSECTION FRAMING
N.T.S.

CONNECTOR SCHEDULE * CONNECTORS TO BE SIMPSON STRONG TIE OR EQUIVALENT UPON ENGINEER OF RECORD APPROVAL		
CONNECTOR	APPLICATION	PRODUCT*
DEFLECTION CONNECTORS	BYPASS FRAMING SLIDE-CLIP	SCB43.5 (3.5") SBC45.5 (5.5") SBC47.5 (7.5")
	HEAD OF WALL	SCW3.25 (3.25") SCW5.5 (5.5")
	BYPASS FRAMING SLIDE-CLIP STRUCT	SSB3.518
	SLIDE-CLIP @ HORIZ APPLICATION	SCHA
DRIFT CONNECTORS	BYPASS FRAMING STRUT	DSSCB46 (6" STUD) DSSCB48 (8" STUD)
	HEAD OF WALL	HWDC5.5 (5.5")
RIGID CONNECTORS	DRIFT CLIP BYPASS FRAMING	IDBC45.5
	BYPASS FRAMING (FIXED)	FCB43.5-R25 (3.5") FCB45.5-R25 (5.5") FCB47.5-R25 (7.5")
	BYPASS FRAMING FIXED CLIP	FC32-5/97-R25 (6" STUD) FC82-5/97-R25 (8" STUD)
	BYPASS FRAMING SLIDE-CLIP STRUT (FIXED)	FSB3.518
	KNEEWALL	RCKW5.5 (5.5") RCKW7.5 (7.5")
	CONNECTOR @ STEEL JOIST	SJC8.25
BRIDGING & BRACING	STEEL TO STUD	SSC4.25 (FOR 6" STUD) SSC6.25 (FOR 8" STUD)
	CONNECTOR@ CONCRETE	RCA-C225/97-R55
BRIDGING & BRACING	TYP. BRIDGING	SUBH3.25

FASTENER / CONNECTOR SCHEDULE SEE SECTIONS AND DETAILS FOR LOC. & NUMBER OF CONNECTORS			
CONNECTOR	SUBSTRATE	DESCRIPTION	PRODUCT*
SCREWS	METAL TRACK	#10 - 16 x 5/8" PAN HEAD	BUILDEX "TEKS", COMPASS "DARTS", GRABBER "SELF DRILLING"
	STUD TO STUD	#10 - 16 x 5/8" HEX HEAD	BUILDEX "TEKS", COMPASS "DARTS", GRABBER "SELF DRILLING"
	COLD FORMED STEEL TO HOT ROLLED STRUCTURAL STEEL	#12 - 24 x 1 1/4" HEX HEAD, #5 TIP	BUILDEX "TEKS", HILTI "KWIK-PRO"
	WOOD FRAMING OR PLYWOOD	#14 - 20 x 2 3/4" PHILLIPS FLAT HEAD, #4 WINGS	BUILDEX "TEKS", HILTI "KWIK-PRO"
	CONCRETE OR GROUTED CMU	0.145" Ø x 5/8" 0.157" Ø x 1 1/4"	HILTI X-U SIMPSON PDPAT
P.D.F.'S	STRUCTURAL STEEL	0.145" Ø x 5/8" 0.157" Ø x 5/8"	HILTI X-U SIMPSON PDPAT
* OR EQUIVALENT UPON ENGINEER OF RECORD APPROVAL			

4
S4.3
CFM - FASTERNER SCHEDULE
N.T.S.

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City Comments - 6/16/22



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S4.3

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MECHANICAL AND PLUMBING SPECIFICATIONS

A. GENERAL:		26. EXISTING EQUIPMENT; CHECK, VERIFY AND MAKE OPERABLE ALL EXISTING EQUIPMENT THAT IS NOTED TO BE REUSED. PROVIDE SERVICE ON ALL FAN COILS, AIR CONDITIONING UNITS, ETC., AS REQUIRED TO BRING THEM TO PROPER OPERATING CONDITION. CLEAN COILS AND ENCLOSURE, LUBRICATE, CHECK MOTORS AND REPLACE FILTERS.	WATER SUPPLY, SHALL BE INSTALLED IN SUCH A MANNER AS TO ELIMINATE THE POSSIBILITY OF ANY PHYSICAL OR POTENTIAL CROSS CONNECTION. VACUUM BREAKERS SHALL BE PROVIDED FOR ALL SUBMERGE/ENCLOSED OUTLETS AND INSTALLED A MINIMUM OF 6" ABOVE OVERFLOW RIM.	12. MEASURING DEVICES TO OPERATE PROPERLY TO WITHIN FOLLOWING RANGES:	4. CHECK AND CALIBRATE ALL THERMOSTATS AND TEMPERATURE SENSORS. REPORT TO THE GENERAL CONTRACTOR ANY MALFUNCTIONING THERMOSTAT AND SENSORS AND REPAIR OR REPLACE AS REQUIRED. THERMOSTATS OR SENSORS SHALL BE SET FOR:
1. WHILE ALL WORK IS IN PROGRESS, EXCEPT FOR SHORT DESIGNATED INTERVALS DURING WHICH CONNECTIONS ARE TO BE MADE, CONTINUITY OF SERVICE TO ALL EXISTING SYSTEMS SERVING OCCUPIED SPACES SHALL BE MAINTAINED. PROVIDE TEMPORARY PIPING SERVICES WHERE REQUIRED TO MAINTAIN EXISTING AREAS OPERABLE.	2. ANY WORK WHICH WILL AFFECT THE BUILDING OCCUPANTS, INCLUDING, BUT NOT LIMITED TO, WORK WHICH GENERATES EXCESSIVE NOISE, DUST, SMOKE, OR INCONVENIENCE TO BUILDING OCCUPANTS, SHALL BE PERFORMED AFTER BUSINESS HOURS, UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE BUILDING MANAGER.	27. RESPONSIBILITY OF CONTRACTOR; THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE AND SATISFACTORY INSTALLATION OF THE WORK IN ACCORDANCE WITH THE TRUE INTENT OF THE DRAWINGS AND SPECIFICATIONS. HE SHALL PROVIDE, WITHOUT EXTRA CHARGE, ALL INCIDENTAL ITEMS REQUIRED, AS A PART OF HIS WORK. THE INSTALLATION SHALL BE SO MADE THAT ITS SEVERAL COMPONENT PARTS WILL FUNCTION TOGETHER AS A WORKABLE SYSTEM AND SHALL BE LEFT WITH ALL PARTS ADJUSTED AND IN WORKING ORDER.	2. INSTALL BACKFLOW PREVENTERS ON PLUMBING LINES WHERE CONTAMINATION OF DOMESTIC WATER MAY OCCUR.	12.1. TEMPERATURE SENSORS SHALL HAVE AN ACCURACY OF ±2°F(1.1°C) OVER THE RANGE OF 40°F TO 80°F(4°C TO 26.7°C).	HEATING MODE-SET AND LOCK AT 72 DEGREES F +/- 2 DEGREES F.
3. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH ARCHITECT AND OWNER AT ALL TIMES FOR ALL NEW-TO-EXISTING CONNECTIONS, SYSTEM SHUTDOWNS, RESTART-UP, AND FLUSHING AND FILLING OF BOTH NEW AND EXISTING AFFECTED SYSTEMS.	4. THE CONTRACTOR SHALL VISIT AND EXAMINE THE PREMISES AND/OR JOB SITE SO AS TO ASCERTAIN, PRIOR TO BIDDING, THE EXISTING CONDITIONS IN WHICH HE WILL BE OBLIGED TO OPERATE IN PERFORMING HIS PART OF THE CONTRACT. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF THESE CONDITIONS.		3. INSTALL PRESSURE REDUCING VALVES TO LIMIT MAXIMUM PRESSURE AT PLUMBING FIXTURES TO 65 PSIG.	12.2. REFRIGERANT PRESSURE SENSORS, WHERE USED, SHALL HAVE AN ACCURACY OF ±3% OF FULL SCALE.	COOLING MODE-SET AND LOCK AT 75 DEGREES F +/- 2 DEGREES F.
5. REPORT ANY EXISTING DAMAGED EQUIPMENT OR SYSTEMS TO THE OWNER PRIOR TO ANY WORK.	6. INSTALL ALL EQUIPMENT AND MATERIALS IN SUCH A MANNER AS TO PROVIDE REQUIRED ACCESS FOR SERVICING AND MAINTENANCE. ALLOW AMPLE SPACE FOR REMOVAL OF ALL PARTS THAT REQUIRE REPLACEMENT OR SERVICING.	B. MECHANICAL/ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT:	4. INSTALL WATER HAMMER ARRESTERS IN DOMESTIC WATER PIPING SYSTEM AT EACH SET OF FLUSH VALVES AND IN OTHER LOCATIONS WHERE HYDROSTATIC SHOCK PRESSURES COULD OCCUR.	13. EQUIPMENT CONTROLLER TO REPORT THE FOLLOWING SYSTEM STATUS:	F. TEST AND BALANCE REQUIREMENTS:
7. FURNISH HINGED STEEL ACCESS DOORS WITH CONCEALED LATCH, WHETHER SHOWN ON DRAWINGS OR NOT, WHERE REQUIRED FOR ACCESS TO ALL CONCEALED VALVES, SHOCK ABSORBERS, MOTORS, FANS, BALANCING COCKS, AND OTHER OPERATING DEVICES REQUIRING ADJUSTMENT OR SERVICING. ACCESS DOORS IN FIRE-RATED WALLS AND CEILINGS SHALL HAVE EQUIVALENT UL LABEL AND FIRE RATING.	8. IT IS THE INTENTION OF THESE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION, WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY FOR USE."	1. CONTRACTOR SHALL REVIEW ELECTRICAL POWER REQUIREMENTS FOR MECHANICAL EQUIPMENT THAT ARE SCHEDULED ON THE ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT. DO NOT PURCHASE MOTORS OR ELECTRICAL EQUIPMENT UNTIL POWER CHARACTERISTICS AVAILABLE AT BUILDING SITE LOCATION HAVE BEEN CONFIRMED BY CONTRACTOR.		13.1. FREE COOLING AVAILABLE.	1. GENERAL EXHAUST/SUPPLY FANS:
9. SECURE AND PAY FOR ALL PERMITS, TAP FEES, TAXES, ROYALTIES, LICENSES, AND INSPECTIONS IN CONNECTION WITH THE WORK SPECIFIED UNDER DIVISION 23.	10. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS.	2. PROVIDE SAFETY DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT, UNLESS SPECIFICALLY SHOWN ON DIVISION 16 REQUIREMENTS.	I. METAL DUCTWORK:	13.2. ECONOMIZER ENABLED.	a. ADJUST CFM TO SYSTEM REQUIREMENTS. FOR BELT DRIVE, INCLUDE SHEAVE AND BELT EXCHANGE TO DELIVER AIRFLOW WITHIN LIMITS OF INSTALLED MOTOR HORSEPOWER AND MECHANICAL STRESS LIMITS OF THE FAN.
11. DRAWINGS ARE DIAGRAMMATIC IN CHARACTER AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, VALVE, FITTING, ETC.	12. DRAWINGS SHALL NOT BE SCALED FOR ROUGH-IN MEASUREMENTS OR USED AS SHOP DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED IN FIELD.	3. FURNISH COMBINATION TYPE FULL NEMA RATED STARTERS WITH FUSED DISCONNECT SWITCH FOR ALL MOTORS PROVIDED.	1. NEW RECTANGULAR SUPPLY DUCTWORK SHALL BE GALVANIZED SHEET METAL, WRAPPED WITH FIBERGLASS INSULATION.	13.3. COMPRESSOR ENABLED.	b. MEASURE AND REPORT STATIC PRESSURES UPSTREAM AND DOWNSTREAM OF FANS (DUCTED UNITS ONLY)
13. ALL NEW, RELOCATED AND EXISTING MATERIALS, IN CEILING PLENUMS SHALL BE CLASS 1 RATED, NOT EXCEEDING RATING OF 25 FLAME SPREAD AND 50 SMOKE DEVELOPED. REMOVE AND REPLACE ALL EXISTING MATERIALS NOT IN COMPLIANCE.	14. BEFORE ANY EQUIPMENT IS ORDERED AND/OR INSTALLED, DETERMINE THAT SAID EQUIPMENT WILL PROPERLY FIT WITHIN THE SPACE ALLOCATED, THAT REQUIRED PIPING GRADES CAN BE MAINTAINED; AND THAT DUCTWORK CAN BE RUN AS INTENDED.	4. ELECTRICAL WIRING IN CONNECTION WITH THE AUTOMATIC TEMPERATURE CONTROL SYSTEM, INCLUDING INTERLOCK WIRING, WHERE SHOWN ON DRAWINGS OR NOT, SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. ALL OTHER WIRING, INCLUDING 120V REQUIRED FOR PROPER OPERATION OF THE AUTOMATIC TEMPERATURE CONTROL SYSTEM, SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR.	2. ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS IN INCHES.	13.4. HEATING ENABLED.	c. MEASURE AND REPORT FAN RPM.
15. COORDINATE THE INSTALLATION OF MECHANICAL MATERIALS AND EQUIPMENT ABOVE AND BELOW CEILINGS, LIGHT FIXTURES, AND OTHER BUILDING COMPONENTS. ALL COMPONENTS SHALL BE LOCATED AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE CEILING CAVITY SPACE CAREFULLY WITH ALL TRADES.	16. CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS PRIOR TO SUBSTANTIAL COMPLETION OF CONSTRUCTION OR INSTALLATION OF CEILING TILE, TO SCHEDULE A FINAL PUNCH LIST WALKTHROUGH.	C. MECHANICAL SYSTEMS FIRESTOPPING:	3. FABRICATE DUCTWORK OF GAUGES AND REINFORCEMENT COMPLYING WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS". MEDIUM PRESSURE DUCT, PRESSURE CLASS 4" W.G. POSITIVE OR NEGATIVE, SEAL CLASS A, LOW PRESSURE DUCT, DOWNSTREAM OF FAN COIL UNITS - PRESSURE CLASS 2" W.G. POSITIVE OR NEGATIVE, SEAL CLASS B.	13.5. MIXED AIR LOW LIMIT CYCLE ACTIVE.	d. REPORT DESIGN FAN INLET AND OUTLET SIZES, ACTUAL INLET AND OUTLET SIZES, AND DESIGN AND ACTUAL VELOCITIES THROUGH THE ORIFICE.
17. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, FREE OF DEFECTS, AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S CURRENT PUBLISHED RECOMMENDATIONS.	18. CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER ELECTRONIC (PDF) OF ALL SHOP DRAWINGS AND DESCRIPTIVE EQUIPMENT DATA/SUBMITTALS REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL IDENTIFY ANY "LONG LEAD TIME" ITEMS WHICH MAY IMPACT THE OVERALL PROJECT SCHEDULE. ALL BIDS SHALL INCLUDE COSTS ASSOCIATED WITH THE PURCHASE AND DELIVERY OF EQUIPMENT TO MEET THE PROJECT SCHEDULE.	1. PROVIDE FIRE-STOPPING MATERIAL AND SYSTEMS AS LISTED IN THE U.L. FIRE RESISTANCE DIRECTORY EQUAL TO THE FIRE RESISTANCE RATING OF THE RESPECTIVE WALL OR FLOOR ASSEMBLY FOR ALL PENETRATIONS OF PIPING, DUCTWORK AND OTHER MECHANICAL ITEMS THROUGH FIRE-RATED CORRIDOR WALLS, FIRE RESISTIVE WALLS, FIRE RESISTIVE SHAFTS, AND FLOOR PENETRATIONS.	4. USE MINIMUM 26 GA. WHERE DUCTS ARE WITHIN CORRIDORS.	13.6. THE CURRENT VALUE OF EACH SENSOR.	2. HYDRONIC SYSTEMS: THE SYSTEM SHALL BE BALANCED PROPORTIONALLY USING THE FLOW METERS. ON COMPLETION OF THE BALANCE, THE FOLLOWING INFORMATION SHALL BE RECORDED IN THE REPORT: FLOW METER SIZE AND BRAND, REQUIRED FLOW RATE AND PRESSURE DROP, VALVE SETTINGS ON METERS WITH A READABLE SCALE, AND FLOW RATE IN BOTH FULL COIL FLOW AND FULL BYPASS MODES.
19. QUIET OPERATION AND VIBRATION; MECHANICAL EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL OPERATE UNDER ALL LOAD CONDITIONS WITHOUT NOISE OR VIBRATION.	20. KEEP A COMPLETE SET OF RECORD DOCUMENT PRINTS IN CUSTODY DURING ENTIRE PERIOD OF CONSTRUCTION AT THE CONSTRUCTION SITE. AT THE COMPLETION OF THE PROJECT, TURN THESE DRAWINGS OVER TO THE GENERAL CONTRACTOR FOR HIS SUBMISSION TO THE ARCHITECT.	2. SANITARY WASTE AND VENT; ROOF DRAIN; AND STORM DRAIN PIPING:	5. SMACNA STANDARDS: COMPLY WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE" FOR FABRICATION AND INSTALLATION OF METAL DUCTWORK. COMPLY WITH SMACNA "HVAC AIR DUCT LEAKAGE TEST MANUAL" FOR TESTING OF DUCT SYSTEMS.	13.7. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	3. EQUIPMENT: PROVIDE START-UP REPORT FOR ALL NEW AND EXISTING HVAC UNITS, AUX. AIR CONDITIONING SYSTEMS, ETC. REPORT SHALL INCLUDE NAMEPLATE DATA, DESIGN DATA, MEASURED MOTOR AMP DRAW, VOLTAGE, DISCHARGE AND SUCTION STATIC PRESSURE AND TEMPERATURE. MEASURE ADJUST AND REPORT AIRFLOWS, SET VFD SPEEDS OF VARIABLE-SPEED FAN SYSTEM. CHECK AND VERIFY ACTIVATION OF ELECTRIC AND GAS FIRED EQUIPMENT.
21. THE CONTRACTOR FOR THIS WORK SHALL EXAMINE THE DRAWINGS AND SPECIFICATIONS FOR OTHER PARTS OF THE WORK, AND IF HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE OR IF ANY DISCREPANCIES OCCUR BETWEEN THE PLANS FOR HIS WORK AND THE PLANS FOR THE WORK OF OTHERS, HE SHALL REPORT SUCH DISCREPANCIES TO THE ARCHITECT/ENGINEER AND SHALL OBTAIN WRITTEN INSTRUCTIONS FOR ANY CHANGES NECESSARY TO ACCOMMODATE HIS WORK WITH THE WORK OF OTHERS. ANY CHANGES IN THE WORK COVERED BY THIS SPECIFICATION MADE NECESSARY BY THE FAILURE OR NEGLECT OF THE CONTRACTOR TO REPORT SUCH DISCREPANCIES SHALL BE MADE BY AND AT THE EXPENSE OF THIS CONTRACTOR.	22. OPERATING AND MAINTENANCE DATA; THE CONTRACTOR SHALL PREPARE AN OPERATING AND MAINTENANCE MANUAL COVERING ALL SYSTEMS AND EQUIPMENT INSTALLED UNDER THIS DIVISION. SUBMIT AN OUTLINE OF A PREVENTATIVE MAINTENANCE PROGRAM FOR EACH SYSTEM. CONTRACTOR SHALL PROPERLY LUBRICATE ALL MECHANICAL PIECES OF EQUIPMENT, WHICH HE HAS PROVIDED BEFORE TURNING THE BUILDING OVER TO THE OWNER.	a. VERIFY ALL INVERT ELEVATIONS OF EXISTING WASTE AND STORM DRAIN PIPING PRIOR TO ANY NEW WORK.	6. ALL RECTANGULAR DUCTWORK WITH 45 DEG. ELBOWS OR GREATER SHALL HAVE SINGLE WALL TURNING VANES OR LONG RADIUS ELBOWS. PROVIDE LONG RADIUS ELBOWS FOR ROUND DUCTWORK.	13.8. EQUIPMENT CONTROLLER TO REPORT FOLLOWING FAULTS TO FAULT MANAGEMENT APPLICATION ACCESSIBLE BY SERVICE PERSONNEL OR ANNUNCIATED LOCALLY ON ZONE THERMOSTATS.	G. REPORT OF WORK:
23. DEMOLITION:	a. DURING THE DEMOLITION PHASE REMOVE EXISTING EQUIPMENT, PIPING, DUCTWORK AND RELATED ITEMS, EITHER AS SHOWN ON THE DEMOLITION DRAWINGS AS BEING REMOVED, OR AS REQUIRED FOR THE WORK.	b. INSTALL PLUMBING DRAINAGE PIPING WITH MINIMUM 1/4" PER FOOT (2%) DOWNWARD SLOPE IN DIRECTION OF DRAIN FOR PIPING 3" AND SMALLER. INSTALL 4" AND LARGER PIPING WITH MINIMUM 1/8" PER FOOT (1%) DOWNWARD SLOPE UNLESS OTHERWISE INDICATED ON DRAWINGS AND WHEN APPROVED BY ADMINISTRATIVE AUTHORITIES.	7. FLEXIBLE AIR DUCTS SHALL BE LISTED UNDER U.L. 181 STANDARDS AS CLASS I AIR DUCT MATERIAL. MINIMUM OPERATING PRESSURE RATING SHALL BE 6" W.C. WITH MINIMUM WORKING VELOCITY RATING SHALL BE 1000 F.P.M.	13.9. EQUIPMENT CONTROLLER TO REPORT FOLLOWING FAULTS TO FAULT MANAGEMENT APPLICATION ACCESSIBLE BY SERVICE PERSONNEL OR ANNUNCIATED LOCALLY ON ZONE THERMOSTATS.	1. THE TESTING AND BALANCING CONTRACTOR SHALL SUBMIT ELECTRONIC (PDF) COPIES OF THE FINAL TESTING AND BALANCING REPORT AT LEAST FIFTEEN (15) CALENDAR DAYS PRIOR TO THE DATE FOR WHICH THE MECHANICAL CONTRACTOR REQUESTS FINAL INSPECTION.
	b. PROPERLY CAP AND SEAL ALL DUCTWORK AND PIPING NOT USED.	c. GRADE VENT PIPING FOR PROPER VENTILATION (MINIMUM 1/8" PER FOOT) AND TO ALLOW PIPING TO FREE ITSELF QUICKLY OF CONDENSATION OF WATER.	8. ALL INSULATED FLEXIBLE DUCTS SHALL BE CONSTRUCTED OF A METALIZED RIPSTOP REINFORCED LAMINATE INNER CORE, 1-1/2" THICK, 3/4" LB./CU.FT. DENSITY FIBERGLASS INSULATION WITH "C" FACTOR OF 0.23 OR LESS; AND AN OUTER JACKET MADE EXCLUSIVELY OF FIRE RETARDANT REINFORCED ALUMINUMATED MATERIAL. EQUAL TO FLEXMASTER TYPE 3M.	13.10. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	2. A COMPLETE REDUCED SET OF MECHANICAL CONTRACT DRAWINGS (SHOWING EACH SYSTEM) SHALL BE INCLUDED IN THE REPORT, WITH ALL EQUIPMENT, FLOW MEASURING DEVICES, TERMINALS, CLEARLY MARKED AND ALL EQUIPMENT DESIGNATED. THE TEST AND BALANCE CONTRACTOR CAN OBTAIN DRAWING FILES FROM THE ENGINEER FOR DEVELOPMENT OF THESE DRAWINGS.
	c. EXISTING THERMOSTATS, DIFFUSERS, DUCTWORK, ETC., NOTED ON DRAWINGS TO BE RE-USED SHALL BE THOROUGHLY CLEANED AND/OR REFINISHED TO MATCH NEW.	3. CONTRACTOR SHALL FIELD VERIFY ALL PIPING AND PLUMBING LOCATIONS AND INVERTS PRIOR TO TRENCHING OR INSTALLATION OF NEW PIPING. ALLOW FOR COST OF X-RAYING FLOOR FOR LOCATING BURIED PIPING AND PRIOR TO MAKING FLOOR PENETRATIONS.	9. EXISTING FLEXIBLE DUCTWORK, WHICH REMAINS IN PLACE, MAY BE REUSED IF IT IS PROPERLY LABELED WITH U.L. 181 TAG. EXISTING FLEXIBLE DUCTWORK NOT U.L. APPROVED SHALL BE REMOVED AND REPLACED WITH THAT SPECIFIED IN NOTES ABOVE.	13.11. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	3. THE REPORT SHALL INCLUDE A LIST OF ALL EQUIPMENT USED IN THE TESTING AND BALANCING WORK.
	d. THE LOCATION OF EXISTING EQUIPMENT, PIPING, DUCTWORK, ETC., SHOWN ON THE DRAWINGS HAS BEEN TAKEN FROM EXISTING DRAWINGS AND IS, THEREFORE, ONLY AS ACCURATE AS THAT INFORMATION.	4. INSTALL HANGERS AND GUIDES AS NECESSARY TO PROVIDE PIPING SYSTEMS, WHICH ARE SELF SUPPORTING AND NOT DEPENDENT UPON CONNECTIONS TO EQUIPMENT. ALL PIPING SHALL BE ADEQUATELY SUPPORTED FROM THE BUILDING STRUCTURE WITH ADJUSTABLE HANGERS TO MAINTAIN UNIFORM GRADING WHERE REQUIRED AND TO PREVENT SAGGING AND POCKETING.	10. FINAL CONNECTION OF FLEXIBLE DUCTWORK TO RUN-OUT DUCTS AND CEILING DIFFUSERS SHALL BE MADE WITH 0.5" WIDE POSITIVE-LOCKING STEEL STRAPS (APPLIES TO ALL FLEXIBLE DUCTWORK NEW AND EXISTING).	13.12. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	4. THIS PROJECT WILL NOT BE CONSIDERED SUBSTANTIALLY COMPLETE UNTIL A SATISFACTORY REPORT IS RECEIVED. THE TESTING & BALANCING CONTRACTOR SHALL RESPOND TO AND CORRECT ALL DEFICIENCIES WITHIN SEVEN (7) DAYS OF RECEIVING THE ENGINEER'S WRITTEN REVIEW OF THE BALANCING REPORT. FAILURE TO COMPLY WILL RESULT IN HOLDING RETAINAGE OF THE FINAL PAYMENT UNTIL ALL ITEMS HAVE BEEN CORRECTED TO THE SATISFACTION OF THE ENGINEER.
		5. ALLOW FLEXIBILITY IN THE ERECTION OF THE PIPING SYSTEM IN ORDER TO PREVENT EXCESSIVE STRESSES IN MATERIALS AND JOINTS DUE TO THERMAL EXPANSION OR EQUIPMENT VIBRATION. PROVIDE SUFFICIENT SWING JOINTS, ANCHORS, EXPANSION LOOPS, EXPANSION JOINTS AND/OR OTHER DEVICES AS NECESSARY AND INSTALL SO AS TO PERMIT FREE EXPANSION AND CONTRACTION WITHOUT CAUSING UNDUE STRESSES.	11. MAXIMUM LENGTH: FOR ANY DUCT RUN USING FLEXIBLE DUCTWORK, SHALL NOT EXCEED 5'-0".	13.13. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	H. GUARANTEE OF WORK:
		6. PROVIDE SHUTOFF VALVES AND UNIONS OR FLANGES TO ISOLATE EACH ITEM OF EQUIPMENT.	12. CONNECTIONS TO EXHAUST GRILLES SHALL BE MADE WITH RIGID DUCTWORK ONLY.	13.14. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	1. THE TESTING & BALANCING CONTRACTOR SHALL GUARANTEE THE ACCURACY OF THE TESTING AND BALANCING FOR A PERIOD OF 90 DAYS FROM THE DATE OF FINAL ACCEPTANCE OF THE TEST AND BALANCE REPORT. DURING THIS PERIOD, THE TESTING & BALANCING CONTRACTOR SHALL MAKE PERSONNEL AVAILABLE AT NO COST TO THE OWNER TO CORRECT DEFICIENCIES THAT MAY BECOME APPARENT IN THE SYSTEM BALANCE.
		7. PROVIDE DIELECTRIC UNIONS AT ALL JUNCTIONS OF DISSIMILAR METALS.	13. SEAL ALL DUCTWORK WITH NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT, OF TYPE APPLICABLE FOR FABRICATION/INSTALLATION DETAIL, AS COMPOUNDED AND RECOMMENDED BY MANUFACTURER, SPECIFICALLY FOR SEALING JOINTS AND SEAMS IN DUCTWORK.	13.15. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
		8. PROVIDE SHEET METAL SHIELDS FOR PIPING 2" AND SMALLER (EXCEPT WHERE REQUIRED TO BE CLAMPED) AND CALCIUM SILICATE THERMAL INSERT WITH SHEET METAL SHIELDS FOR PIPING LARGER THAN 2" AND FOR ALL SIZES OF INSULATED PIPING REQUIRED TO BE CLAMPED.	14. DUCT TAKEOFF FITTINGS: PROVIDE SPIN-IN FITTINGS AT FLEXIBLE OR ROUND SHEET METAL DUCT TAKEOFFS TO AIR DEVICES. FITTINGS DOWNSTREAM OF AIR TERMINALS SHALL INCLUDE BUTTERFLY TYPE MANUAL VOLUME DAMPER WITH END BEARINGS, REGULATOR, AND LOCKING DEVICE.	13.16. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
		9. PROVIDE DIELECTROLYSIS ISOLATORS AT ALL HANGERS AND SUPPORTS FOR DOMESTIC WATER AND OTHER WATER LINES WHICH ARE NOT INSULATED.	15. PROVIDE DUCT HANGERS IN ACCORDANCE WITH SMACNA HVAC DUCT MANUALS.	13.17. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
		10. TEST ALL PIPING SYSTEMS. CORRECT LEAKS BY REMAKING JOINTS. GIVE A MINIMUM OF TWENTY FOUR (24) HOURS NOTICE TO ENGINEER OF DATES WHEN ACCEPTANCE TEST WILL BE CONDUCTED.	J. COMBINATION FIRE/SMOKE DAMPERS:	13.18. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
		11. ALL PIPING SHALL BE CLEANED AND FLUSHED PRIOR TO SERVICE.	1. PROVIDE AND INSTALL U.L. LABELED, CLASS II (FOR VELOCITIES UP TO 1,500 FPM) OR CLASS I (FOR VELOCITIES ABOVE 1500 FPM), MOTOR-DRIVEN COMBINATION FIRE/SMOKE DAMPERS AT ALL FIRE RATED WALLS, FULL DUCT SIZE, WITH TYPE 304 STAINLESS STEEL SIDE SEALS, COMBINATION SILICONE/GALVANIZED STEEL EDGE SEALS, BRONZE OILITE OR STAINLESS STEEL SLAVE BEARINGS, AIRFOIL SHAPED GALVANIZED STEEL PARALLEL ACTING BLADES ALONG WITH OUT-OF-AIRSTREAM IN-JAMB LINGAGE WITH STAINLESS STEEL PIVOTS AND FACTORY SLEEVE, RED ENAMEL FINISH, CAULKED AND ATTACHED TO DAMPER IN ACCORDANCE WITH U.L. FIRE DAMPER REQUIREMENTS.	13.19. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
		12. DOMESTIC WATER SUPPLY AND DISTRIBUTION SYSTEM SHALL BE STERILIZED WITH LIQUID CHLORINE OR HYPOCHLORITE BEFORE ACCEPTANCE FOR OPERATION. IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION (AWWA) "STANDARD SPECIFICATIONS FOR WATER MAINS", INSTALL PIPING WITHIN CONDITIONED SPACE UNLESS NOTED OTHERWISE.	2. SEAL ALL DUCTWORK WITH NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT, OF TYPE APPLICABLE FOR FABRICATION/INSTALLATION DETAIL, AS COMPOUNDED AND RECOMMENDED BY MANUFACTURER, SPECIFICALLY FOR SEALING JOINTS AND SEAMS IN DUCTWORK.	13.20. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			3. DUCT TAKEOFF FITTINGS: PROVIDE SPIN-IN FITTINGS AT FLEXIBLE OR ROUND SHEET METAL DUCT TAKEOFFS TO AIR DEVICES. FITTINGS DOWNSTREAM OF AIR TERMINALS SHALL INCLUDE BUTTERFLY TYPE MANUAL VOLUME DAMPER WITH END BEARINGS, REGULATOR, AND LOCKING DEVICE.	13.21. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			4. DUCTWORK ON WHICH INSULATION IS NOT REQUIRED: LINED DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.22. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			5. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.23. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			6. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.24. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			7. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.25. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			8. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.26. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			9. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.27. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			10. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.28. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			11. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.29. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			12. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.30. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			13. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.31. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			14. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.32. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			15. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.33. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			16. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.34. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			17. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.35. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			18. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.36. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			19. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.37. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			20. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.38. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			21. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.39. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			22. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.40. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			23. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.41. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			24. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.42. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			25. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.43. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			26. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.44. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			27. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.45. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			28. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.46. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			29. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.47. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			30. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.48. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			31. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.49. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			32. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.50. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			33. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.51. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			34. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.52. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			35. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.53. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			36. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.54. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			37. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.55. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			38. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.56. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			39. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.57. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			40. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.58. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			41. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.59. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			42. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.60. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			43. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.61. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			44. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.62. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			45. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.63. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			46. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.64. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			47. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.65. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			48. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.66. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			49. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.67. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			50. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.68. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			51. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.69. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			52. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.70. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			53. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.71. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			54. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.72. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			55. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.73. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			56. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.74. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			57. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.75. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			58. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.76. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	
			59. DUCTWORK MEETING THE INSULATION REQUIREMENTS ABOVE, EXHAUST AIR DUCTWORK SPECIFICALLY NOTED ON DRAWINGS, PRE-INSULATED FLEX DUCT.	13.77. EQUIPMENT CONTROLLER TO BE CAPABLE OF MANUALLY INITIATING EACH MODE INDEPENDENTLY FOR TESTING PURPOSES.	



COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code: 2019 Denver, Colorado Energy Conservation Code - 2018 IECC
Project Title: Kadampa Meditation Center
Location: Denver, Colorado
Climate Zone: 5b
Project Type: Alteration

Construction Site:
4840 W 29th Ave
Denver, Colorado 80211

Owner/Agent:
Colorado

Designer/Contractor:
Chris Wood
Ramirez, Johnson, and Associates
3295 Blake St, #104
Denver, Colorado 80205
3035888579
chris@rja-eng.com

Mechanical Systems List
Quantity System Type & Description

2 RTU-1/2 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 130 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et, or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 45 kBtu/h, Air-Cooled Condenser, Unknown Economizer
Proposed Efficiency = 16.10 SEER, Required Efficiency: 14.00 SEER

3 RTU-3/4/5 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 90 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et, or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 32 kBtu/h, Air-Cooled Condenser, Unknown Economizer
Proposed Efficiency = 14.00 SEER, Required Efficiency: 14.00 SEER

2 EBB-1 (Unknown w/ PerimeterSystem):
Heating: 1 each - Unit Heater, Electric, Capacity = 1 kBtu/h
No minimum efficiency requirement applies

1 EUH-1 (Unknown w/ PerimeterSystem):
Heating: 1 each - Unit Heater, Electric, Capacity = 10 kBtu/h
No minimum efficiency requirement applies

1 HP-1 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 14 kBtu/h,
Proposed Efficiency = 10.30 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 18 kBtu/h,
Proposed Efficiency = 22.50 SEER, Required Efficiency: 14.00 SEER

3 GWH-1/2/3:
Gas Instantaneous Water Heater, Capacity: 0 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump
No minimum efficiency requirement applies

Mechanical Compliance Statement
Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2019 Denver, CO, Energy Conservation Code - 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: Kadampa Meditation Center
Data filename: Report date: 05/03/22
Page 1 of 13

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] ¹	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6] ¹	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6] ¹	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6] ¹	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6] ¹	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.6.1, C404.6.2 [PL3] ¹	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.6.3 [PL7] ¹	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7] ¹	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7] ¹	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7] ¹	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7] ¹	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)			
Project Title: Kadampa Meditation Center Data filename: Report date: 05/03/22 Page 5 of 13			


Name - Title

Signature

Date

Project Title: Kadampa Meditation Center
Data filename: Report date: 05/03/22
Page 2 of 13

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.6.3 [PL7] ¹	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8] ¹	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8] ¹	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8] ¹	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8] ¹	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8] ¹	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8] ¹	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
Additional Comments/Assumptions:			
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)			
Project Title: Kadampa Meditation Center Data filename: Report date: 05/03/22 Page 6 of 13			



COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2019 Denver, CO, Energy Conservation Code - 2018 IECC
Requirements: 100.0% were addressed directly in the COMcheck software
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C401.2, Appendix CA [PL17] ¹	New construction projects include provisions and compliance with Appendix CA - Solar-Ready Zone. See section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C103.2 [PR2] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C103.2 [PR3] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.10 [PR162] ¹	Electric vehicle charging station installed per section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

Project Title: Kadampa Meditation Center
Data filename: Report date: 05/03/22
Page 3 of 13

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41] ¹	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.11.3 [ME1] ¹	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.11.3 [ME1] ¹	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.11.3 [ME1] ¹	HVAC piping insulation insulated in accordance with Table C403.11.3. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.8.1 [ME65] ¹	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. <i>See the Mechanical Systems list for values.</i>
C403.8.1 [ME65] ¹	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. <i>See the Mechanical Systems list for values.</i>
C403.8.1 [ME65] ¹	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. <i>See the Mechanical Systems list for values.</i>
C403.8.1 [ME65] ¹	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. <i>See the Mechanical Systems list for values.</i>
C403.8.3 [ME117] ¹	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.8.3 [ME117] ¹	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.8.3 [ME117] ¹	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)			
Project Title: Kadampa Meditation Center Data filename: Report date: 05/03/22 Page 7 of 13			

Section # & Req.ID

C403.12.2, C403.12.3 [F09]¹

Footing / Foundation Inspection

☐Complies
☐Does Not
☐Not Observable
☐Not Applicable

Comments/Assumptions

Exception: Requirement does not apply.

Additional Comments/Assumptions:

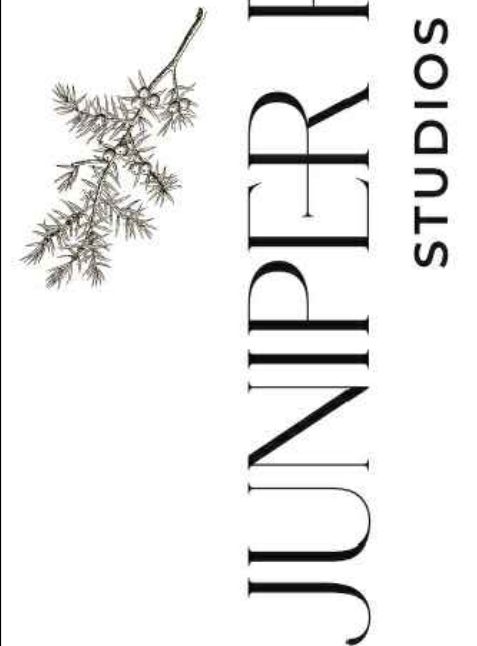
Project Title: Kadampa Meditation Center
Data filename: Report date: 05/03/22
Page 4 of 13

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.8.3 [ME117] ¹	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.8.3 [ME117] ¹	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.12.1 [ME71] ¹	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2.3 [ME5] ¹	HVAC equipment efficiency verified.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<i>See the Mechanical Systems list for values.</i>
C403.2.2 [ME59] ¹	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.7.1 [ME59] ¹	Demand control ventilation provided for spaces >500 ft2 and >25 people/1,000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.7.1.1 [ME144] ¹	VAV, SZVAV, DOAS, ERV and MAU air distribution systems, are provided with controls to regulate the flow of outdoor air. Control systems designed to provide fault on excessive outside air, and display or report to DDC and measure and maintain the flow rate of outdoor air DOAS, ERV and MAUs are required to measure the outside air flow on systems above 4,000 cfm. See section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.7.2 [ME115] ¹	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.6 [ME141] ¹	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.4 [ME57] ¹	Exhaust air energy recovery installed on systems where outside or exhaust airflow rate of system exceeds values in Tables C403.7.4(1) and C403.7.4(2) or when exhaust exceeds three times the values Table C403.7.4(2) exhaust row.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)			
Project Title: Kadampa Meditation Center Data filename: Report date: 05/03/22 Page 8 of 13			

DATE
01/26/22
06/14/22


DESCRIPTION
CONSTRUCTION DOCUMENTS
PLAN REVIEW RESPONSE #1

NO.



Ramirez, Johnson, & Associates
3295 Blake Street #504
Denver, CO 80205
P: 720.598.0774

KADAMPA MEDITATION CENTER
4840 W 29th Ave
Denver, CO 80212
Building Renovation

PROFESSIONAL SEAL

DO NOT SCALE DRAWINGS
CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY JUNIPER ROAD STUDIOS LLC. OF ANY DIMENSIONAL ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK.
MECHANICAL COMCHECK

DRAWN BY
RJA

SHEET
MP0.2

DATE
01/24/2022

REV.
1

SCALE @ 24"x36"
1/4" = 1'-0"

PROJECT NUMBER

11/30/2021 3:21:22 PM

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.3 [F18]?	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.2 [F127]?	HVAC systems and equipment capacity does not exceed calculated loads.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1 [F147]?	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1 [F147]?	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1 [F147]?	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1 [F147]?	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1.1 [F142]?	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.1.2 [F138]?	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1.3 [F120]?	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.2 [F139]?	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 High Impact (Tier 1)2 Medium Impact (Tier 2)3 Low Impact (Tier 3)

Project Title: Kadampa Meditation CenterData filename: Report date: 05/03/22Page 12 of 13

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.5 [ME116]?	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.11.1.2 [ME60]?	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.3.3.2 [ME121]?	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting down the circulation pump on the cooling tower loop.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.4.1.4 [ME63]?	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.3.3 [ME35]?	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.3.3 [ME35]?	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.2.1 [ME53]?	Air outlets and zone terminal devices have means for air balancing. See section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME123]?	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2...	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1)2 Medium Impact (Tier 2)3 Low Impact (Tier 3)

Project Title: Kadampa Meditation CenterData filename: Report date: 05/03/22Page 9 of 13

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.13 [ME145]?	Indoor agricultural dehumidification operations: All indoor plant grow operations that require dehumidification utilize one of the following dehumidification options: 1) Free-standing dehumidification units with a minimum energy factor of 1.9 (kWh, 2) Chilled water system with heat recovery from the condenser coil to achieve dehumidification reheat, 3) integrated HVAC system with heat recovery from the condenser coil (hot gas reheat), and 4) Dehumidification backup. Electric or fossil fuel reheat systems may be employed as supplementary heat per guidance in section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1)2 Medium Impact (Tier 2)3 Low Impact (Tier 3)

Project Title: Kadampa Meditation CenterData filename: Report date: 05/03/22Page 10 of 13

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL26]?	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.7 [EL27]?	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.8.2.1 [EL28]?	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.9 [EL29]?	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1)2 Medium Impact (Tier 2)3 Low Impact (Tier 3)

Project Title: Kadampa Meditation CenterData filename: Report date: 05/03/22Page 11 of 13

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.4.2.1, C403.2.4.2.2 [F140]?	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.3 [F111]?	Heat traps installed on supply and discharge piping of non-circulating systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.4 [F125]?	All piping insulated in accordance with section details and Table C403.11.3.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.6.1 [F112]?	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C408.1.1 [F157]?	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.3.1, C503.4.2, C503.5.1 [F1153]?	HVAC and SWH equipment has been tested to ensure proper operation. See section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.3.2 [F110]?	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls. See section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.2, C408.2.3, C503.4.2, C503.5.1 [F1152]?	HVAC and SWH control systems have been tested to ensure proper operation, calibration and adjustment of controls. See section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.1 [F17]?	Furnished HVAC as-built drawings submitted within 90 days of system acceptance. See section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.3 [F143]?	An air and/or hydronic system balancing report is provided for HVAC systems. See section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:


1 High Impact (Tier 1)2 Medium Impact (Tier 2)3 Low Impact (Tier 3)

Project Title: Kadampa Meditation CenterData filename: Report date: 05/03/22Page 13 of 13

DATE
01/24/22
06/14/22

DESCRIPTION
CONSTRUCTION DOCUMENTS
PLAN REVIEW RESPONSE #1

NO.
A



Ramirez,
Johnson, &
Associates


3255 Blake Street #104
Denver, CO 80205
P: 720.598.0774

KADAMPA
MEDITATION CENTER

4840 W 28th Ave
Denver, CO 80212

Building Renovation

PROFESSIONAL SEAL



DO NOT SCALE DRAWINGS
CONTRACTOR SHALL VERIFY ALL
CONDITIONS AND DIMENSIONS
AT THE JOB SITE AND NOTIFY
JUNIPER ROAD STUDIOS LLC.
OF ANY
DIMENSIONAL ERRORS, OMISSIONS,
OR DISCREPANCIES BEFORE
BEGINNING OR FABRICATING
ANY WORK.

MECHANICAL COMCHECK

DRAWN BY
RJA

SHEET
MP0.3

DATE
01/24/2022

REV.
1

SCALE @ 24"x36"
1/4" = 1'-0"

PROJECT NUMBER

11/30/2021 3:21:22 PM

THIS DWG. AND ALL INFO. CONTAINED HEREIN, IS THE PROPERTY OF JUNIPER ROAD STUDIOS, LLC. ALL RIGHTS ARE EXPRESSLY RESERVED AND IT MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT EXPRESSED WRITTEN CONSENT OF JUNIPER ROAD STUDIOS, LLC. 2021 BY JUNIPER ROAD STUDIOS, LLC.

ROOF TOP UNIT SCHEDULE (GAS/DX)

		SUPPLY FAN INFORMATION					HEATING INFORMATION				COOLING SECTION				ELECTRICAL			WEIGHT (LBS)	NOTES
ITEM	MANUFACTURER & MODEL NO.	AIRFLOW (CFM)	OSA (CFM)	ESP (IN. WC.)	HP	DRIVE	FUEL	EFF. (%)	INPUT (MBH)	OUTPUT (MBH)	TYPE	REFR.	MBH (TOT.)	MBH (SENS)	MCA	MOCP	V/PH/Hz		
RTU-1/2	CARRIER 48GC-05	1600	801	0.75	1.5	DIRECT	NG	81	130	106	DX	410(A)	45.4	44.3	26	30	230/1/60	800	2,3,7,9,10,11,13,14,17,19,21,23
RTU-3	CARRIER 48KC-04	1200	260	0.75	1	BELT	NG	82	90	73.5	DX	410(A)	32.9	30.3	22	30	230/1/60	700	7,11,12,17,19,22
RTU-4	CARRIER 48KC-04	1200	280	0.75	1	BELT	NG	82	90	73.5	DX	410(A)	32.9	30.3	22	30	230/1/60	700	7,11,12,17,19,22
RTU-5	CARRIER 48KC-04	1200	120	0.75	1	BELT	NG	82	90	73.5	DX	410(A)	32.9	30.3	22	30	230/1/60	700	7,11,12,17,19,22
NOTES:																			
1. WIRELESS COMMUNICATION CARD		8. SINGLE ZONE VAV				15. LONTALK COMMUNICATION INTERFACE.				22-14" ROOF CURB									
2. CO2 SENSORS		9. STAINLESS STEEL HEAT EXCHANGER.				16. BACNET COMMUNICATION INTERFACE.				23. SET OSA MIN POSITION TO 160. UPON DETECTION OF CO2 LEVELS OF 1000 PPM INCREASE OSA DAMPER POSITION TO 801 CFM UNTIL CO2 LEVELS REACH BELOW 900 PPM.									
3. CONDENSATE OVERFLOW SWITCH		10. RETURN AIR SMOKE DETECTOR.				17. HAIL GUARDS													
4. DEHUMIDIFICATION CONTROLS		11. THROUGH BASE ELECTRICAL CONNECTION.				18. HIGH ALTITUDE KIT													
5. HINGED ACCESS DOORS		12. BAROMETRIC RELIEF				19. MEDIUM STATIC FAN DRIVE													
6. MULTIPLE ZONE VAV CONTROLS		13. POWERED EXHAUST				20. HUMIDITY SENSOR													
7. CONVENIENCE OUTLET.		14. FULLY MODULATING DRY-BULB ECONOMIZER				21. PROPANE CONVERSION KIT.													

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER & MODEL OR EQUAL	DESCRIPTION	CW	HW	W	V
GWH-1/2/3	NAVIENT NPE-240A	199 MBH TANKLESS WATER HEATER. 0.96 UEF. DUAL STAINLESS STEEL HEAT EXCHANGERS. INTEGRATED RECIRCULATION PUMP.	3/4"	3/4"	--	--
ET-1	AMTROL ST-12C	INLINE THERMAL EXPANSION TANK. TANK VOLUME 4.4 GAL WITH 0.73 GAL ACCEPTANCE FACTOR.	3/4"	--	--	--
HWCP-1	BELL & GOSSETT E3	HOT WATER RECIRCULATION PUMP WITH INTEGRAL TIMER/THERMOSTAT CONTROL. 2 GPM AT 2.5FT H2O. 120/1, 10W.	--	1/2"	--	--
WC-1	KOHLER K-3999	WATER CLOSET; TANK TYPE; FLOOR MOUNTED; ELONGATED RIM; 1.28 GPF. SEAT; WHITE; SOLID PLASTIC; CLOSED WITH COVER; ELONGATED; SOFTCLOSE SEAT; ADA HEIGHT	1/2"	--	4"	2"
WC-2	KOHLER K-3999	WATER CLOSET; TANK TYPE; FLOOR MOUNTED; ELONGATED RIM; 1.28 GPF. SEAT; WHITE; SOLID PLASTIC; CLOSED WITH COVER; ELONGATED; SOFTCLOSE SEAT; ADA HEIGHT	1/2"	--	4"	2"
L-1	KOHLER SERIF K-2075-1-0 KOHLER-97061-4	COUNTER MOUNT WHITE VITREOUS CHINA LAVATORY WITH GRID STRAINER. POLISHED CHROME SINGLE CONTROL MANUAL FAUCET. PROVIDE TMV-1 AND TRUEBRO LAV GUARDS.	1/2"	1/2"	1-1/2"	1-1/4"
L-2	KOHLER K-1999-4 KOHLER 97061-4	KOHLER BRENHAM WHITE VITREOUS CHINA WALL MOUNTED LAVATORY WITH GRID STRAINER AND CONCEALED WALL CARRIER. PROVIDE TMV-1 AND TRUEBRO LAV GUARDS. POLISHED CHROME SINGLE CONTROL MANUAL FAUCET.	1/2"	1/2"	1-1/2"	1-1/4"
L-3	KOHLER SERIF K-2075-1-0 KOHLER-97061-4	COUNTER MOUNT WHITE VITREOUS CHINA LAVATORY WITH GRID STRAINER. POLISHED CHROME SINGLE CONTROL MANUAL FAUCET. PROVIDE TMV-1 AND TRUEBRO LAV GUARDS.	1/2"	1/2"	1-1/2"	1-1/4"
TMV-1	WATTS LFUSGB	THERMOSTATIC MIXING VALVE FOR POINT OF USE, ASSE 1070 LISTED.	1/2"	1/2"	--	--
SH-1	KOHLER K-22166 K-T14491	TILE SHOWER SURROUND BY OWNER. PRESSURE BALANCE SHOWER VALVE TRIM; SOLID BRASS FORGED BODY; 1.75 GPM SHOWERHEAD. 1-1/2" CAST IRON BODY SHOWER DRAIN.	1/2"	1/2"	1-1/2"	1-1/4"
SH-2	KOHLER K-22166 K-T14491	TILE SHOWER SURROUND BY OWNER. PRESSURE BALANCE SHOWER VALVE TRIM; SOLID BRASS FORGED BODY; 1.75 GPM SHOWERHEAD. 1-1/2" CAST IRON BODY SHOWER DRAIN. HANDSHOWER ON 24" SLIDE BAR; ADA COMPLIANT	1/2"	1/2"	1-1/2"	1-1/4"
KS-1	JUST DL-ADA-2037-A-GR MOEN 7565	ADA SELF RIMMING DOUBLE BOWL KITCHEN SINK WITH REAR HOLE. 18GA STAINLESS STEEL BOWL WITH COATING ON UNDERSIDE. PROVIDE WITH BASKET STRAINER. SINGLE HANDLE. SINGLE HOLE FAUCET WITH DECK PLATE AND 0.5 GPM AERATOR. PROVIDE TMV-1 WITH FAUCET.	1/2"	1/2"	1-1/2"	1-1/4"
KS-2	JUST SL-ADA-1617-A-GR MOEN 5965	ADA SELF RIMMING SINGLE BOWL KITCHEN SINK WITH REAR HOLE. 18GA STAINLESS STEEL BOWL WITH COATING ON UNDERSIDE. PROVIDE WITH BASKET STRAINER. SINGLE HANDLE. SINGLE HOLE FAUCET WITH DECK PLATE AND 0.5 GPM AERATOR. PROVIDE TMV-1 WITH FAUCET.	1/2"	1/2"	1-1/2"	1-1/4"
KS-3	JUST DL-ADA-2037-A-GR MOEN 7565	ADA SELF RIMMING DOUBLE BOWL KITCHEN SINK WITH REAR HOLE. 18GA STAINLESS STEEL BOWL WITH COATING ON UNDERSIDE. PROVIDE WITH BASKET STRAINER. SINGLE HANDLE. SINGLE HOLE FAUCET WITH DECK PLATE AND 0.5 GPM AERATOR. PROVIDE TMV-1 WITH FAUCET.	1/2"	1/2"	1-1/2"	1-1/4"
KS-4	JUST SL-ADA-2122-A-GR MOEN 7565	ADA SELF RIMMING SINGLE BOWL KITCHEN SINK WITH REAR HOLE. 18GA STAINLESS STEEL BOWL WITH COATING ON UNDERSIDE. PROVIDE WITH BASKET STRAINER. SINGLE HANDLE. SINGLE HOLE FAUCET WITH DECK PLATE AND 0.5 GPM AERATOR. PROVIDE TMV-1 WITH FAUCET.	1/2"	1/2"	1-1/2"	1-1/4"
GD-1	INSINKERATOR BADGER 5XP	FOOD WASTE DISPOSER; 3/4 HP; CONTINUOUS FEED; GALVANIZED STEEL GRINDING ELEMENTS; MANUAL OVERLOAD PROTECTION; DISHWASHER DRAIN CONNECTION; FACTORY INSTALLED CORD, INSINKERATOR SINKTOP SWITCH - DUAL OUTLET, 76696 CHROME BUTTON	--	--	2"	1-1/2"
IMB-1	GUY GREY MIB 1AB	WHITE POWDER COATED STEEL RECESSED ICE MAKER BOX WITH LEAD FREE QUARTER-TURN STOP VALVE.	1/2"	--	--	--
WB-1	GUY GREY T-SERIES	WHITE POWDER COATED STEEL RECESSED WASHING MACHINE OUTLET BOX WITH LEAD FREE QUARTER-TURN STOP VALVE WITH HAMMER ARRESTORS.	1/2"	1/2"	2"	1-1/2"
RPZ-1	WATTS LF009	REDUCED PRESSURE ZONE ASSEMBLY WITH ISOLATION VALVES AND AIR GAP FITTING.	1-1/2"	--	--	--
FD-1	ZURN Z415N	FLOOR DRAIN. 2" OUTLET, 7" DIA. POLISHED BRONZE TOP, INTEGRAL TRAP GUARD DEVICE	--	--	2"	1-1/2"
AAV-1	STUDOR MINI-VENT	AIR ADMITTANCE VALVE WITH RECESSED ROUGH-IN BOX AND GRILLE.	--	--	--	SEE PLANS
FS-1	JOSAM 49320	12"x12"x6" CAST IRON FLOOR SINK WITH 1/2 GRATE, PORCELAIN COATING WITH DOME STRAINER. PROVIDE SURE SEAL TRAP GUARD.	--	--	4"	2"
MS-1	MUSTEE 63M	24"x24"x10" MOLDED FIBERGLASS MOP SINK WITH 63.600A FAUCET W/ VACUUM BREAKER, STAINLESS STEEL WALL GUARDS AND MOP HOOKS	3/4"	3/4"	3"	2"
DF-1	ELKAY EMABFTLDDLC	WALL MOUNT BI-LEVEL ADA COOLER. NON-FILTERED, NON-REFRIGERATED. PROVIDE IN-WALL CARRIER. PROVIDE ADA COMPLIANT APRON.	1/2"	--	1-1/4"	1-1/2"
HB-1	WOODFORD 65	FREEZEPROOF WALL HYDRANT WITH VACUUM BREAKER, COORDINATE STEM LENGTH WITH WALL THICKNESS.	3/4"	--	--	--

NOTES:
PLUMBING FIXTURES TO BE DETERMINED BY OWNER. FIXTURES SHOWN IN SCHEDULE ARE FOR PERFORMANCE CRITERIA ONLY.
SIZES SHOWN ARE MINIMUM PIPE SIZES TO A SINGLE FIXTURE. MINIMUM PIPE SIZE TO 2 OR MORE FIXTURES IS 3/4". ALL FIXTURES LISTED ARE NOT NECESSARILY USED ON THIS PROJECT.
* WASTE PIPES BELOW SLABS ON GRADE ARE A MINIMUM OF 3".

FAN SCHEDULE

MARK	MANUFACTURER & MODEL OR EQUAL	SERVES	FAN INFORMATION		MOTOR			NOTES:
			CFM	E.S.P (" wg)	POWER	VOLTS/PH/Hz	DRIVE	
EF-1	GREENHECK SP-A90	RESTROOM	75	.25	17W	120/1/60	DIRECT	1,2
EF-2	PANASONIC FV-111SVK2	BATHROOM	50 - 110	0.25	10.8W	120/1/60	DIRECT	1,2,3
NOTES: 1. PROVIDE WITH WALL MOUNTED SWITCH, RE ELECTRICAL PLANS FOR COORDINATION. 2. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER, AND WALL/ROOF CAP WITH BIRD SCREEN. 3. PROVIDE MULTI-SPEED MODULE - SET CONTINUOUS SPEED AT 50 CFM FOR WHOLE HOUSE VENTILATION, 110 CFM WHEN SWITCH IS TURNED ON.								

INDOOR UNIT SCHEDULE

ITEM	FAN			HEATING	COOLING		ELECTRICAL			OP. WT. LBS.	MANUFACTURER & MODEL NO.	NOTES
	CFM	MOTOR POWER (W)	E.S.P. (IN.)	TOTAL @ 17°F (MBH)	REFRIG. TYPE	EVAP. EAT °F DB WB	V/Ø/Hz	FAN MCA				
FCU-1/2	350	40	-	7.5	9	410-A	80 62	208/1/60	1	30	CARRIER MAHBQ09XA3	ALL
NOTES: 1. WALL-MOUNT UNITS PAIRED WITH SINGLE VRF OUTDOOR UNIT. 2. PROVIDE OPTIONAL WALL-MOUNTED WIRED THERMOSTAT. 3. INDOOR UNIT SHALL BE POWERED FROM THE OUTDOOR UNIT.												

OUTDOOR UNIT SCHEDULE

ITEM	SERVICE	COOLING					HEATING	ELECTRICAL DATA				MANUFACTURER & MODEL NO.	NOTES
		TOTAL (MBH)	SENS. (MBH)	DB	WB	COND. EAT °F	TOTAL @ 5°F (MBH)	V/Ø/Hz	MCA	MOCp	OP. WT. LBS.		
HP-1	FCU-1/2	18	13.3	80	62	95	14.4	208/1/60	18	25	120	CARRIER 38MGRQ18B--3	ALL
NOTES:													
1. PROVIDE LINE SET REFRIGERANT KIT FOR CONNECTION TO EACH INDOOR UNIT. SIZE LINE SET PIPING PER MANUFACTURER RECOMMENDATION FOR EACH UNIT.													
2. PROVIDE WITH WIND BAFFLES.													
3. PROVIDE WITH LOW AMBIENT COOLING KIT AND CONTROLS.													
4. UNIT SHALL BE ABLE TO OPERATE AT -5°F WINTER CONDITION.													

ELECTRIC HEATER SCHEDULE

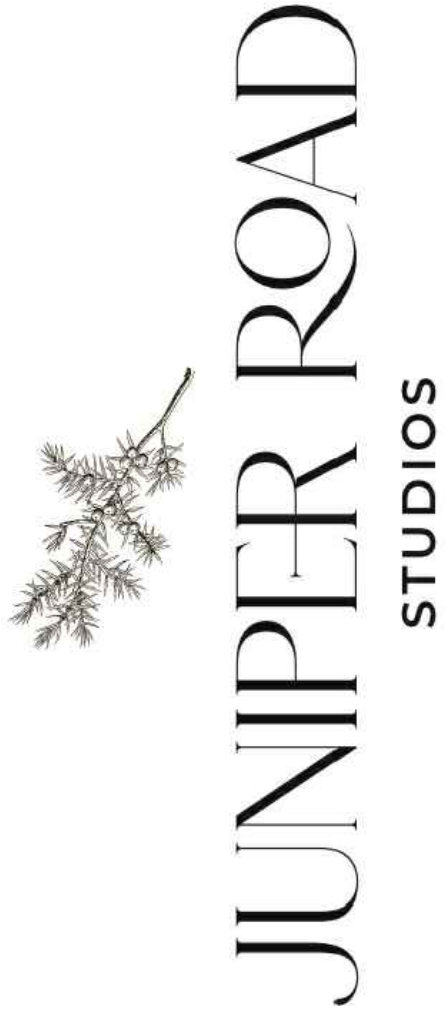
ITEM	MANUFACTURER & MODEL NO.	AIRFLOW (CFM)	AMPS	WATTS	V/PH/Hz	NOTES
EUH-1	MARLEY MUH-0321	350	12.5	3000	240/1/60	1,2,4
NOTES: 1. PROVIDE ELECTRICAL DISCONNECT. 2. PROVIDE WITH INTEGRAL THERMOSTAT. 3. APPROVED MANUFACTURERS: MARKLEY, QMARK & BERKO.						

ELECTRIC BASEBOARD HEATER SCHEDULE

ITEM	MANUFACTURER & MODEL NO.	LENGTH (FT)	AMPS	WATTS	V/PH/Hz	NOTES
EBB-1	BERKO HBB504	2.3	2.1	500	240/1/60	1,2,3
NOTES: 1. PROVIDE ELECTRICAL DISCONNECT. 2. PROVIDE WITH INTEGRAL THERMOSTAT. 3. APPROVED MANUFACTURERS: MARKLEY, QMARK & BERKO. 4. PROVIDE WALL T-STAT.						

DIFFUSER, REGISTER, AND GRILLE SCHEDULE

MARK	MANUFACTURER & MODEL OR EQUAL	TYPE	MODULE	PERFORMANCE		NOTES
			SIZE	MAX. NC	MAX. APD	
CD-1	PRICE / SPD	SQUARE PLAQUE DIFFUSER	24 x 24	30	0.1" WC	1,2,3,4,5
CD-2	PRICE / SPD	SQUARE PLAQUE DIFFUSER	12 x 12	30	0.1" WC	1,2,3,4,5
SD-1	PRICE / 520	LOUVERED SUPPLY GRILLE	SEE PLANS	30	0.1" WC	1,2,3,4,5
SD-2	PRICE / SDS	LINEAR SLOT - 2 SLOT 1" SLOT WIDTH	SEE PLANS	30	0.1" WC	1,2,3,4,5
RG-1	PRICE / PDDR	PERFORATED RETURN DIFFUSER	24 x 24	30	0.1" WC	1,2,3,4
RG-2	PRICE / PDDR	PERFORATED RETURN DIFFUSER	24 x 12	30	0.1" WC	1,2,3,4
NOTES: 1. SEE PLANS FOR CFM AND NECK SIZE. 2. MAXIMUM NOISE CRITERIA (NC) SHALL BE 30 UNLESS OTHERWISE NOTED. 3. COLOR AND FINISH TO BE COORDINATED WITH ARCHITECT. 4. MATERIAL IS STEEL UNLESS OTHERWISE NOTED. 5. PROVIDE BALANCING DEVICE FOR ALL GRD'S UNLESS OTHERWISE NOTED.						



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MECHANICAL AND PLUMBING SCHEDULES

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MP0.4

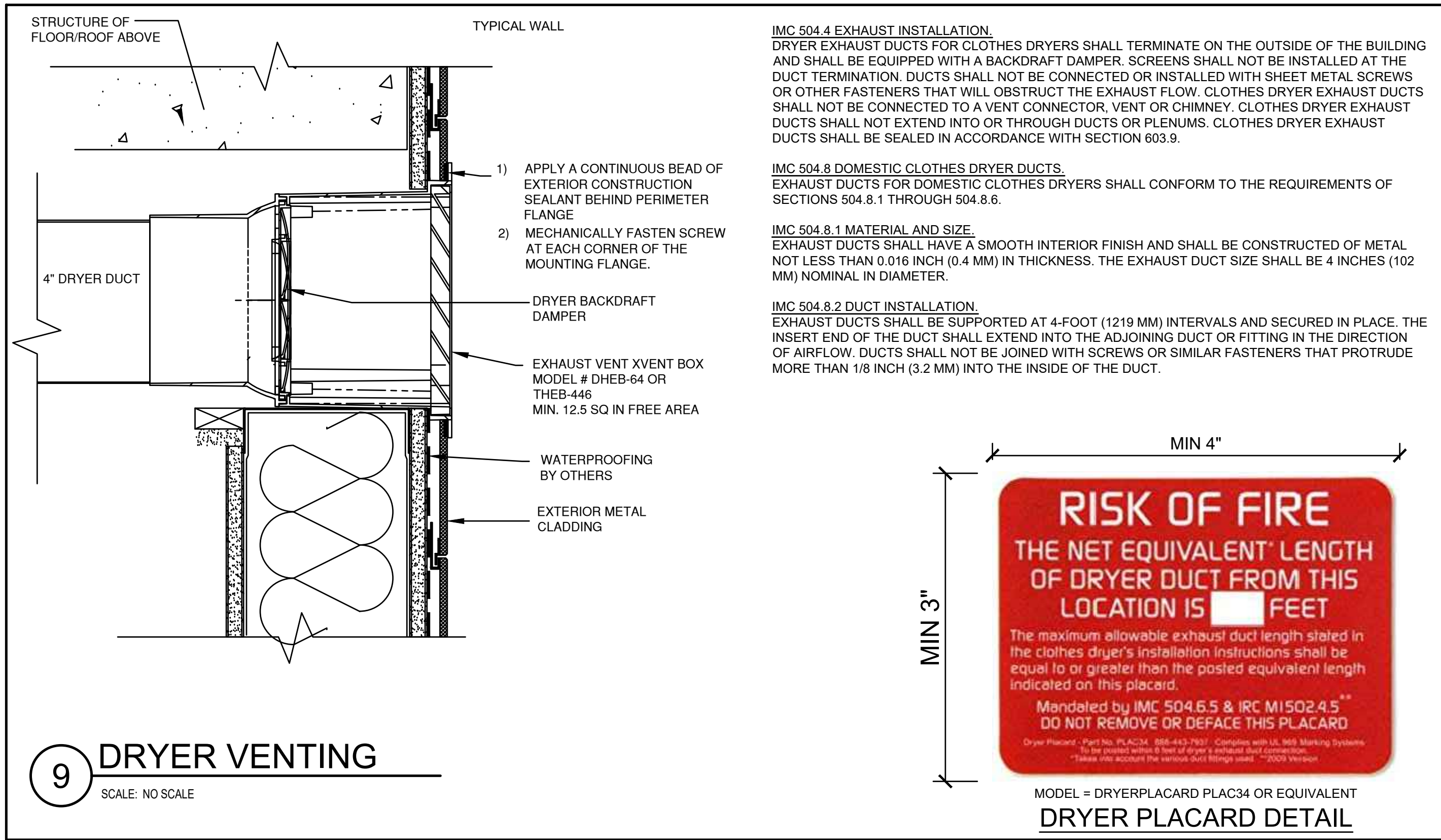
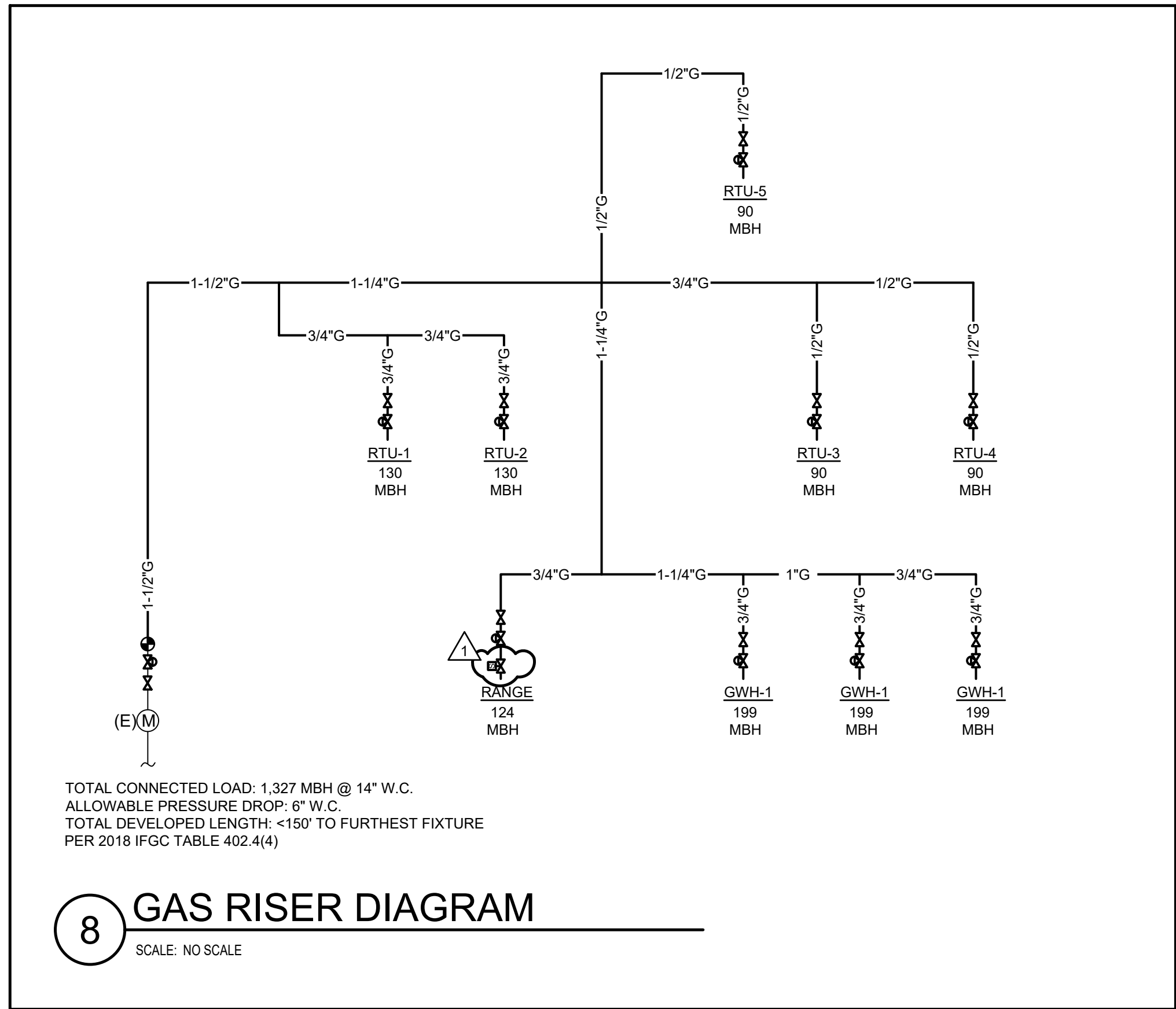
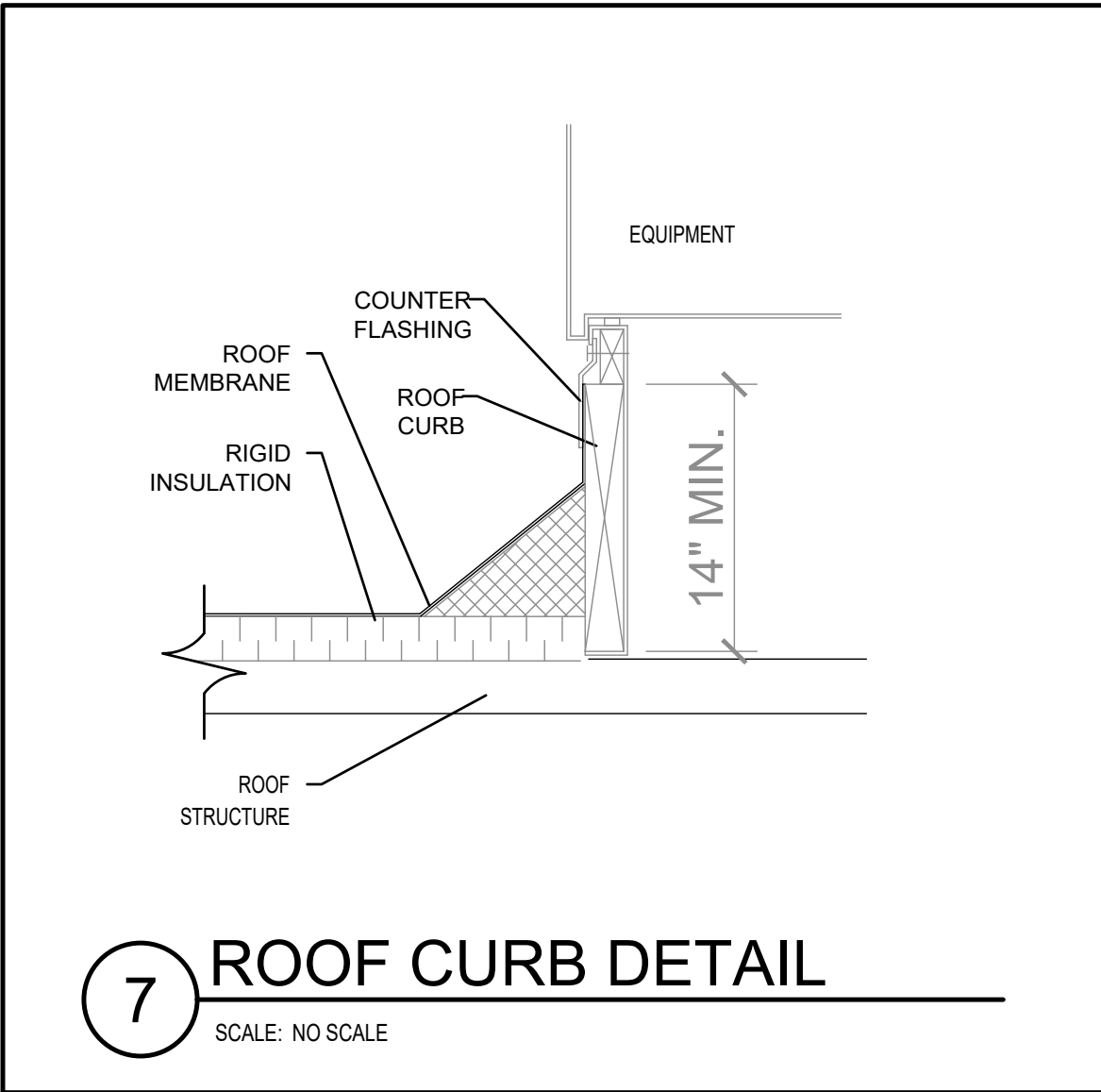
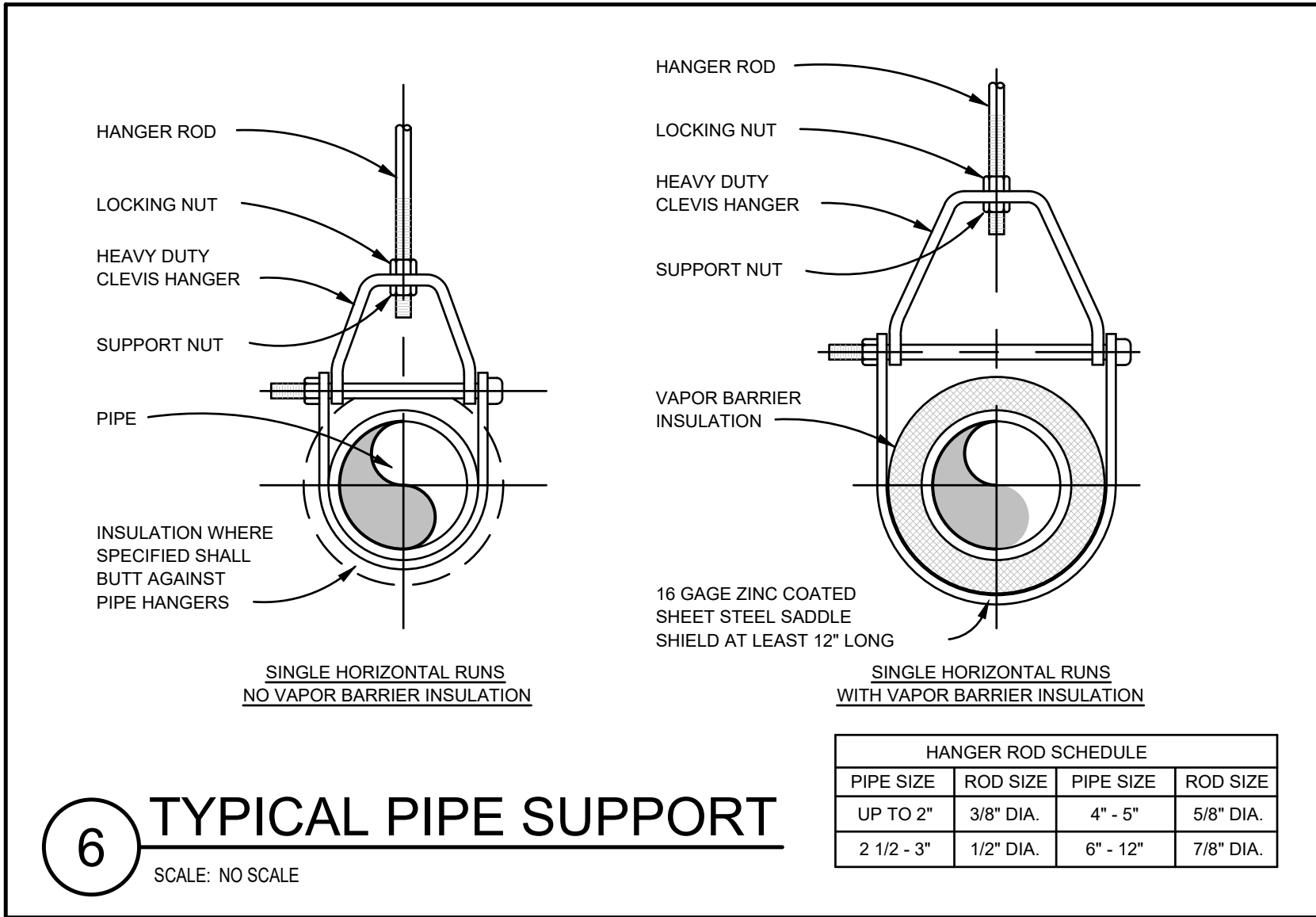
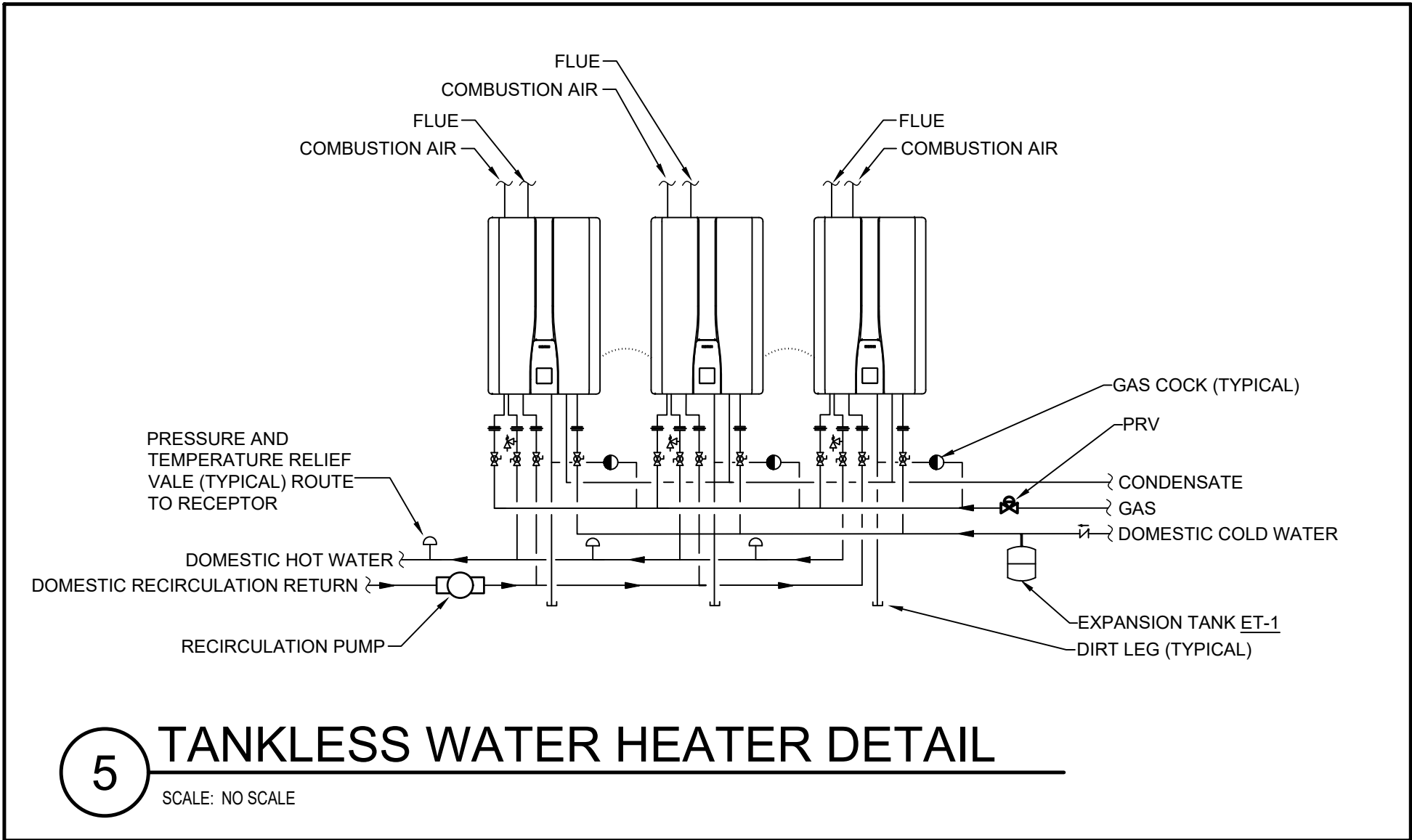
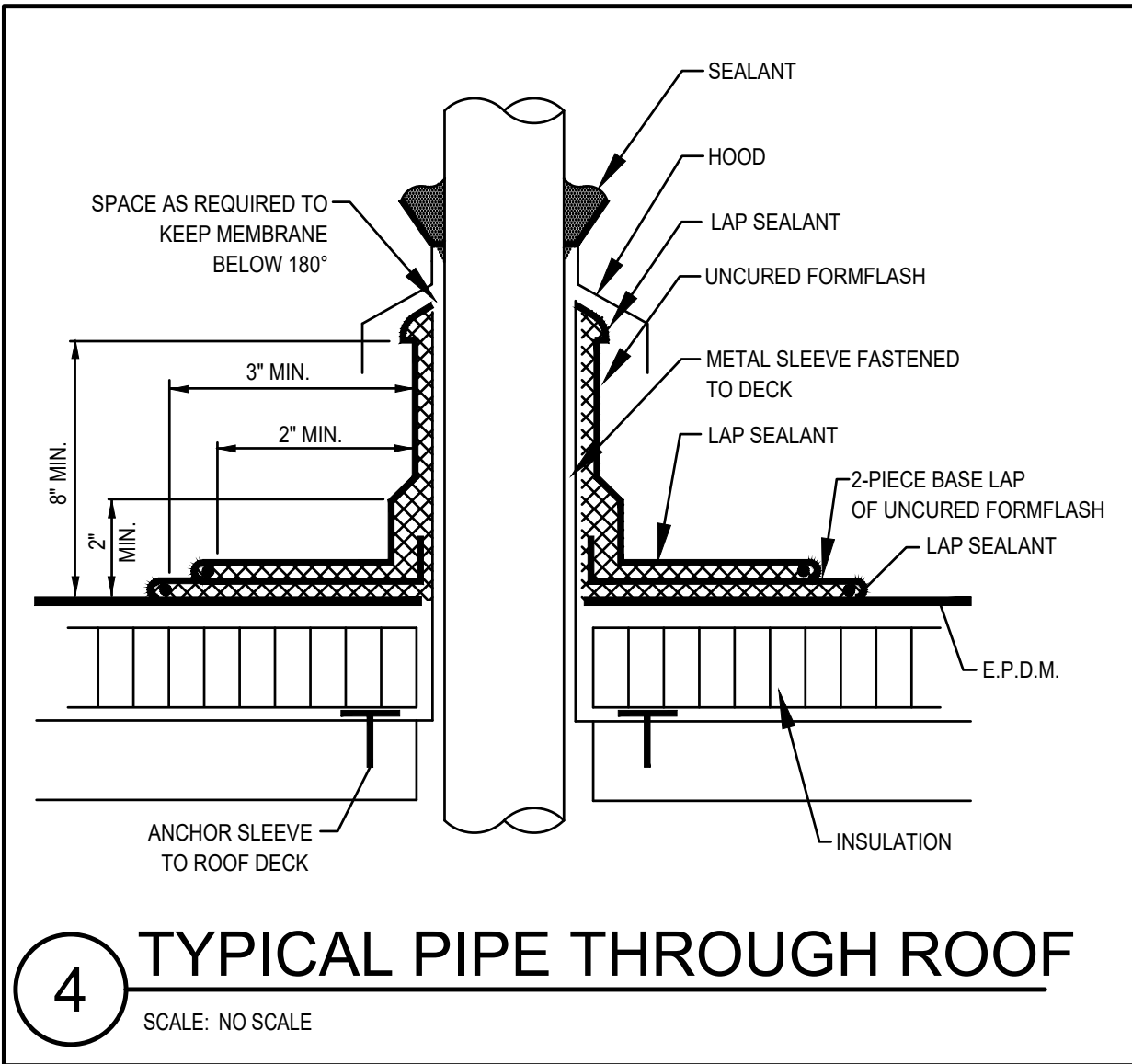
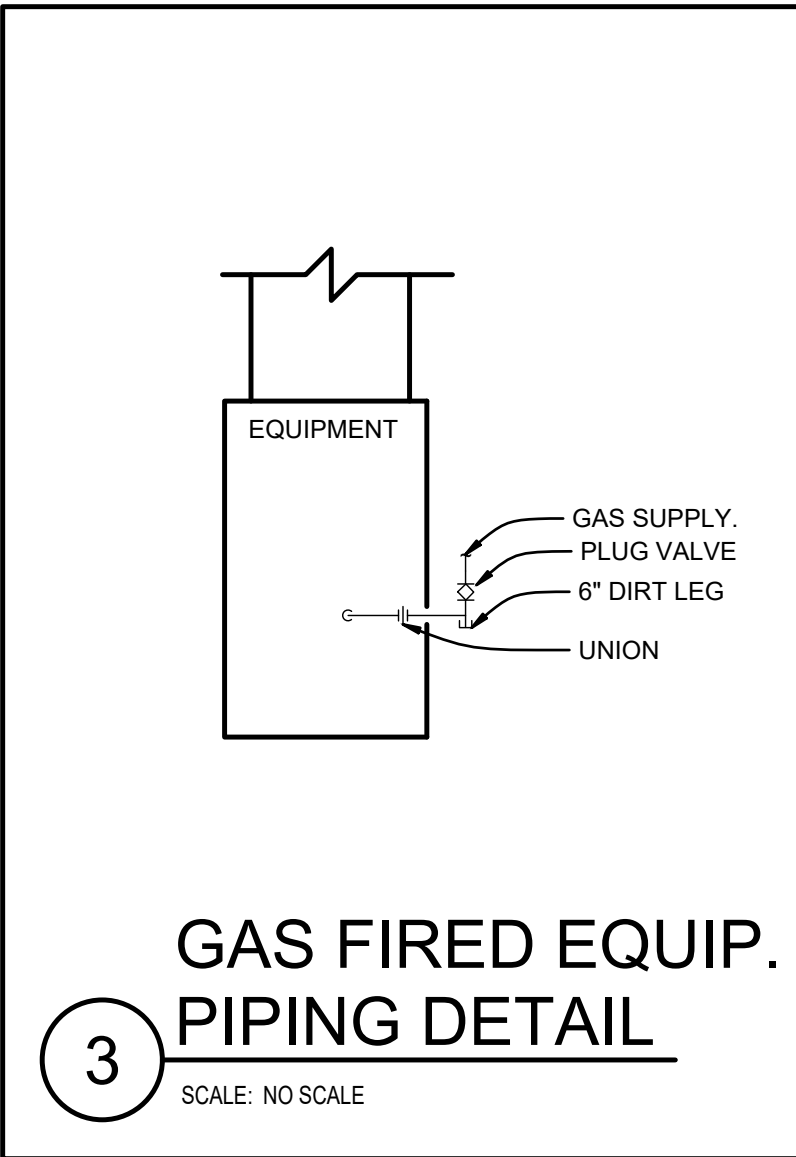
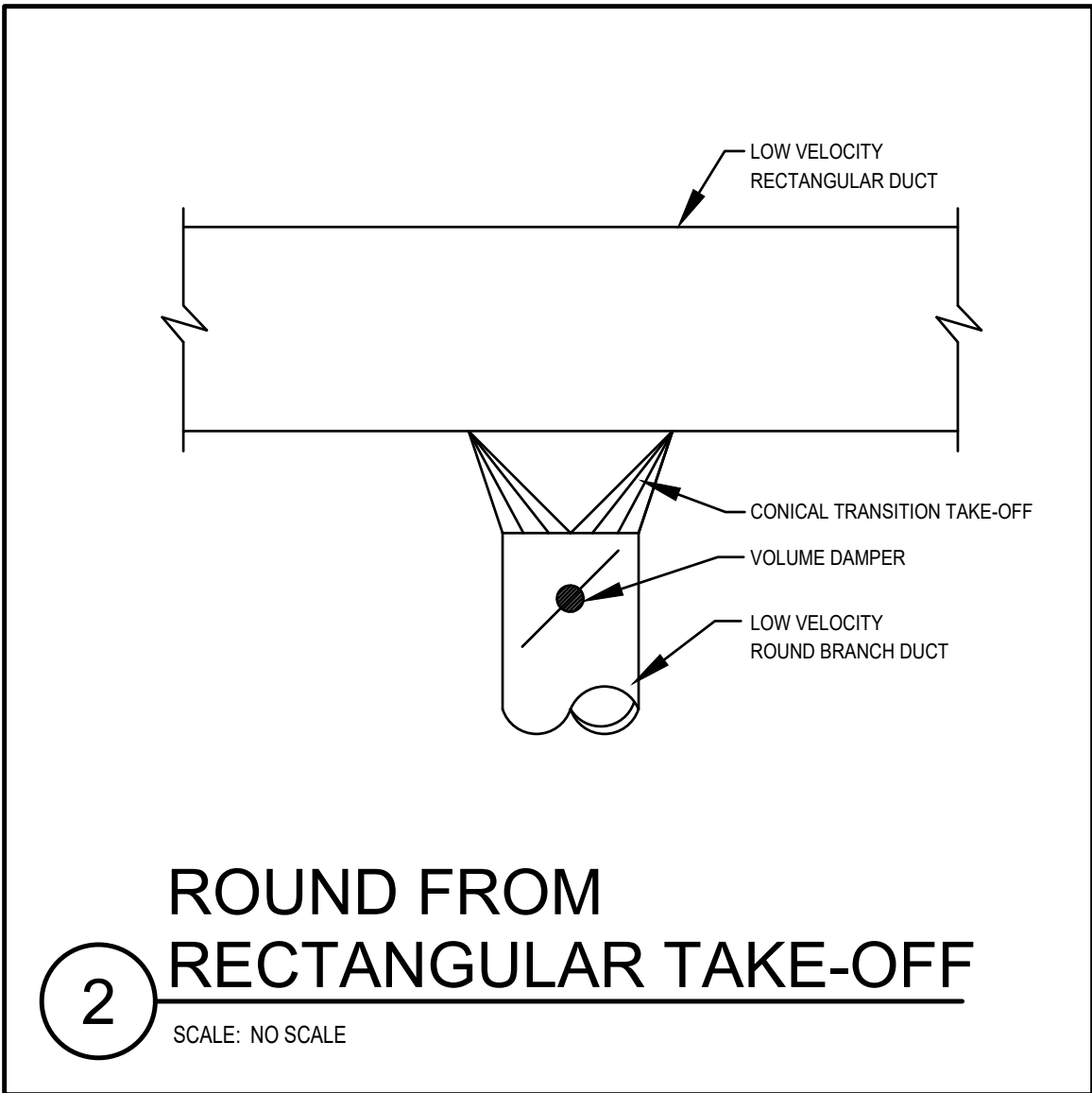
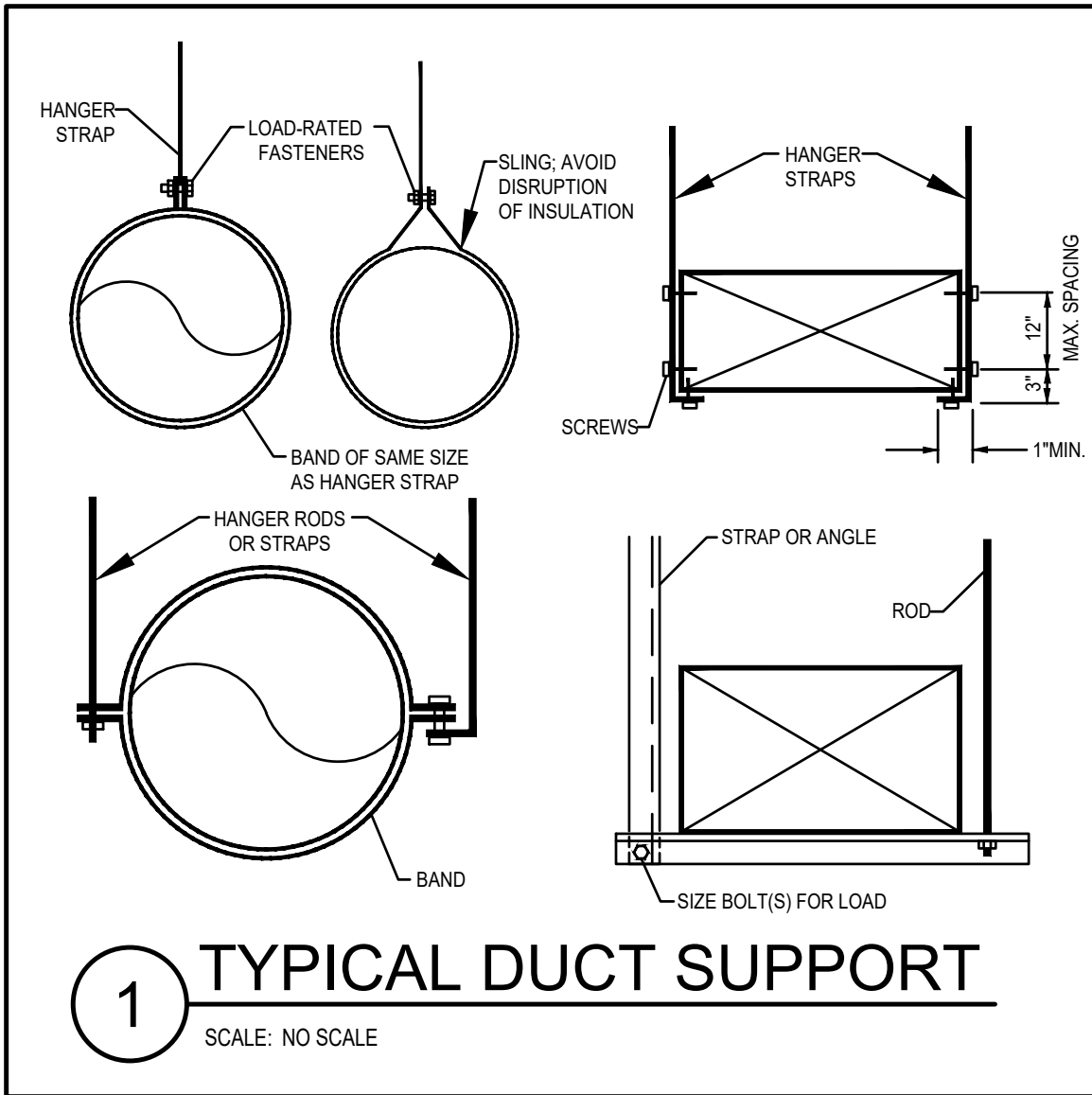
DATE
01/24/2022

REV.
1

SCALE @ 24"x36"

PROJECT NUMBER

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NO.	DESCRIPTION	CONSTRUCTION DOCUMENTS	PLAN REVIEW RESPONSE #1	DATE
1				01/26/22
2				06/14/22

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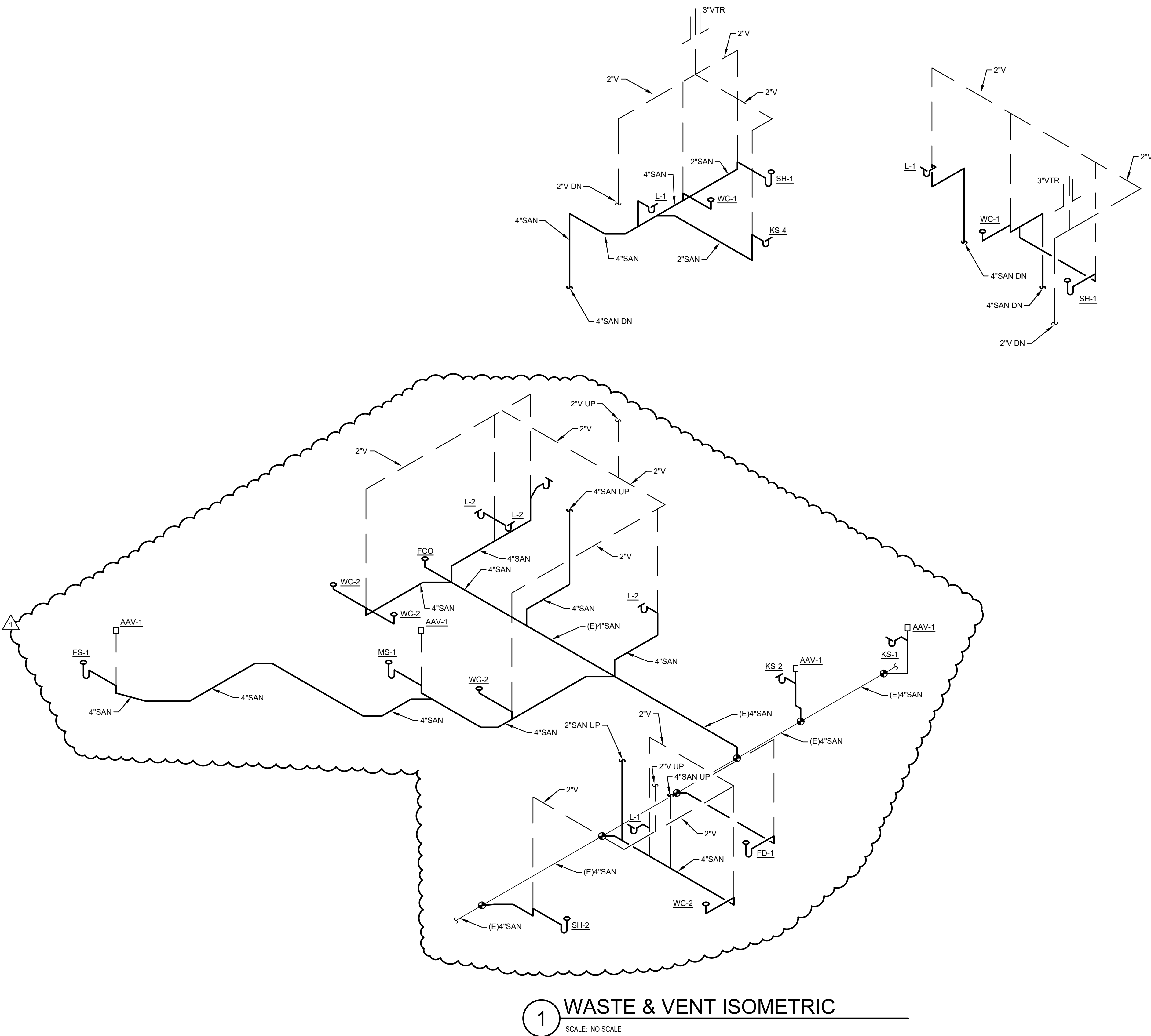
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MECHANICAL AND PLUMBING DETAILS

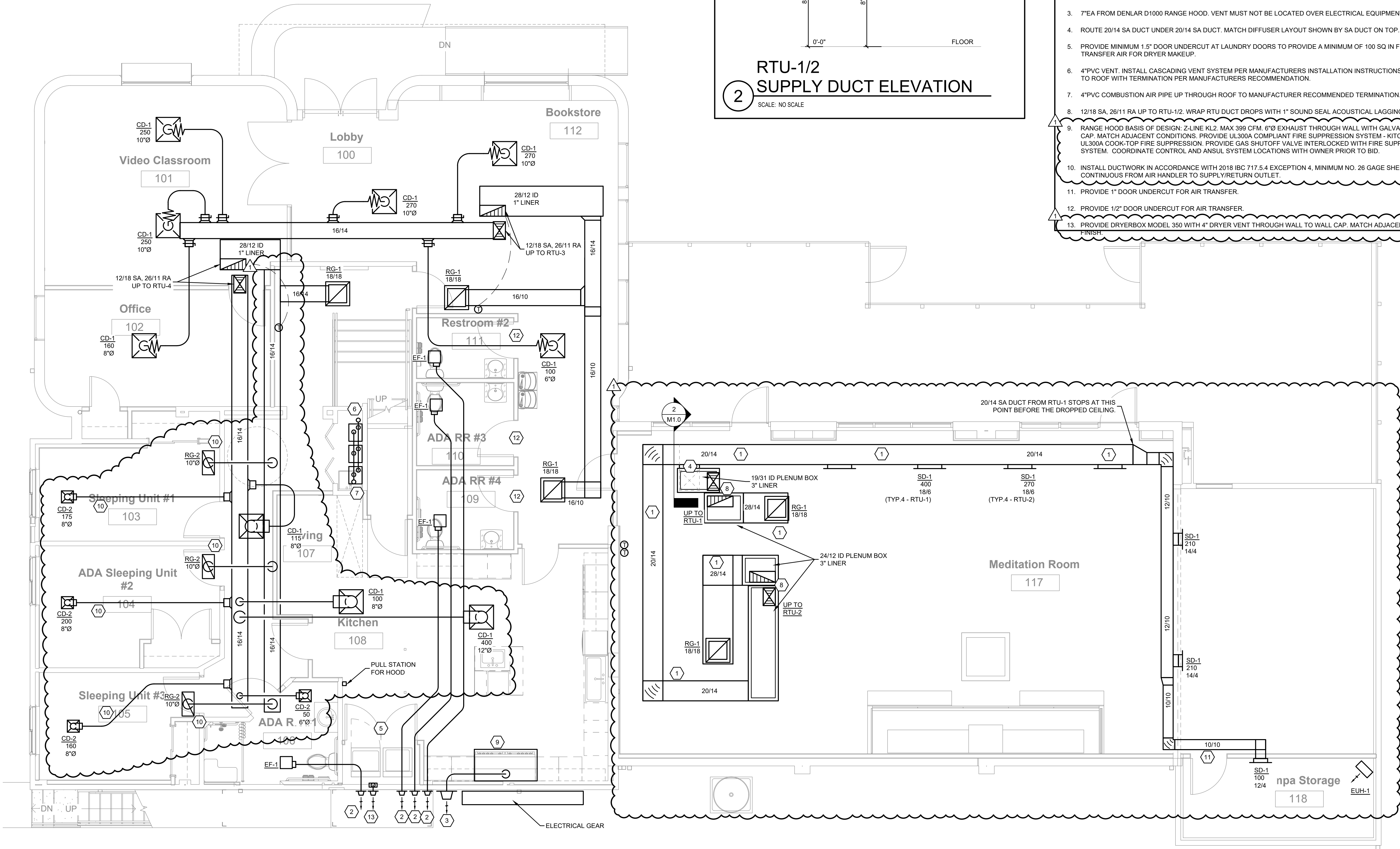
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DATE 01/24/2022	REV. 1
SCALE @ 24"x36" 1/4" = 1'-0"	PROJECT NUMBER

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DATE	DESCRIPTION	NO.	
01.26.22	CONSTRUCTION DOCUMENTS		
06.14.22	PLAN REVIEW RESPONSE #1		
<div><div><div>JUNIPER ROAD</div><div>STUDIOS</div></div></div>			
<div><div><div>Ramirez, Johnson, & Associates</div><div>3295 Blake Street #104 Denver, CO 80202 P: 720.598.0774</div></div></div>			
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DRAWN BY RJA		SHEET MP0.6	
DATE 01/24/2022		REV. <div></div>	
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1 FIRST FLOOR MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

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KEY NOTES

- PROVIDE DUCTWORK WITH 1" LINER.
- 4"Ø EXHAUST THROUGH WALL TO GALVANIZED EXTERIOR WALL CAP. MATCH ADJACENT BUILDING FINISH.
- 7"EA FROM DENLAR D1000 RANGE HOOD. VENT MUST NOT BE LOCATED OVER ELECTRICAL EQUIPMENT.
- ROUTE 20/14 SA DUCT UNDER 20/14 SA DUCT. MATCH DIFFUSER LAYOUT SHOWN BY SA DUCT ON TOP.
- PROVIDE MINIMUM 1.5" DOOR UNDERCUT AT LAUNDRY DOORS TO PROVIDE A MINIMUM OF 100 SQ IN FREE AREA OF TRANSFER AIR FOR DRYER MAKEUP.
- 4"PVC VENT. INSTALL CASCADING VENT SYSTEM PER MANUFACTURERS INSTALLATION INSTRUCTIONS. 4"PVC VENT TO ROOF WITH TERMINATION PER MANUFACTURERS RECOMMENDATION.
- 4"PVC COMBUSTION AIR PIPE UP THROUGH ROOF TO MANUFACTURER RECOMMENDED TERMINATION.
- 12/18 SA, 26/11 RA UP TO RTU-1/2. WRAP RTU DUCT DROPS WITH 1" SOUND SEAL ACOUSTICAL LAGGING WRAP.
- RANGE HOOD BASIS OF DESIGN: Z-LINE KL2. MAX 399 CFM. 6"Ø EXHAUST THROUGH WALL WITH GALVANIZED WALL CAP. MATCH ADJACENT CONDITIONS. PROVIDE UL300A COMPLIANT FIRE SUPPRESSION SYSTEM - KITCHENSAFE USA UL300A COOK-TOP FIRE SUPPRESSION. PROVIDE GAS SHUTOFF VALVE INTERLOCKED WITH FIRE SUPPRESSION SYSTEM. COORDINATE CONTROL AND ANSUL SYSTEM LOCATIONS WITH OWNER PRIOR TO BID.
- INSTALL DUCTWORK IN ACCORDANCE WITH 2018 IBC 717.5.4 EXCEPTION 4, MINIMUM NO. 26 GAGE SHEET STEEL CONTINUOUS FROM AIR HANDLER TO SUPPLY/RETURN OUTLET.
- PROVIDE 1" DOOR UNDERCUT FOR AIR TRANSFER.
- PROVIDE 1/2" DOOR UNDERCUT FOR AIR TRANSFER.
- PROVIDE DRYERBOX MODEL 350 WITH 4" DRYER VENT THROUGH WALL TO WALL CAP. MATCH ADJACENT BUILDING FINISH.

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FIRST FLOOR
MECHANICAL PLANS

DRAWN BY
RJA

SHEET
M1.0

DATE
01/24/2022

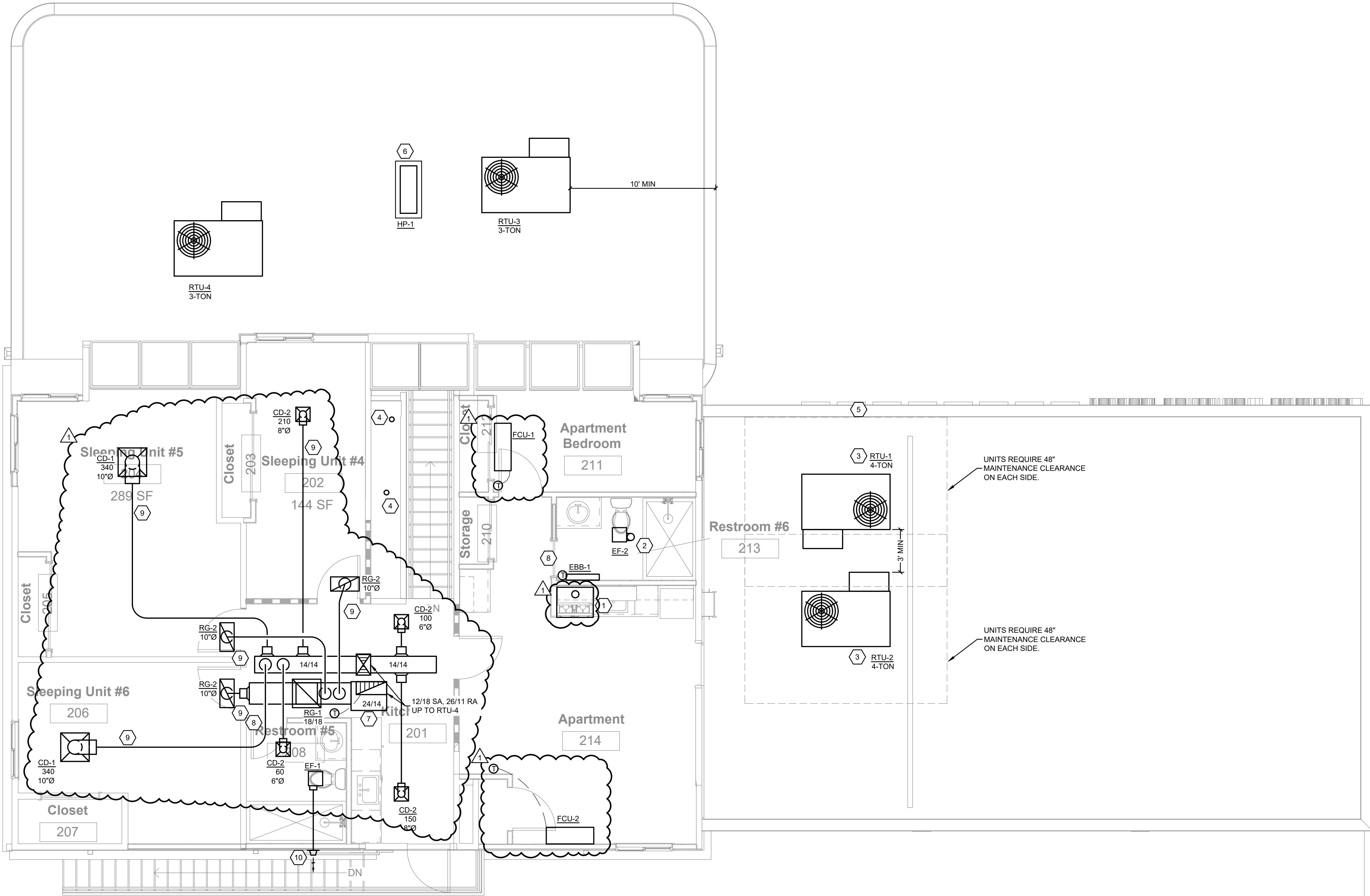
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1/4" = 1'-0"

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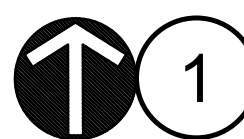


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KEY NOTES

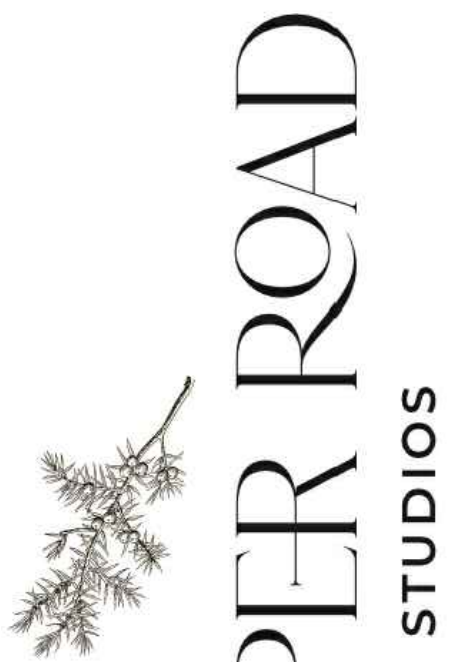
- RESIDENTIAL MICROWAVE/RANGE HOOD. 6"Ø EA UP THROUGH ROOF TO ROOF CAP. EXHAUST. RANGE HOOD BASIS OF DESIGN = HAIER QVMM7167RNS.
- 4"Ø EA UP THROUGH ROOF TO ROOF CAP.
- PROVIDE RTU-1/2 WITH CARRIER CONTROLS TO STAGE RTU COOLING/HEATING/VENTILATION. SET OUTSIDE AIR DAMPER MINIMUM POSITION TO 10%. ON DETECTION OF ELEVATED CO₂ (1000 PPM) INCREASE OA TO 500 CFM EACH.
- 4"PV C/AVENT UP THROUGH ROOF TO MANUFACTURERS RECOMMENDED TERMINATION.
- RE/ARCHITECTURAL - PROVIDE GUARD RAILS IN COMPLIANCE WITH IMC 304.11 WHERE ROOF EQUIPMENT IS WITHIN 10' OF THE ROOF EDGE.
- PROVIDE HP-1 WITH ROOF CURB. ROUTE RL/RS LINES INSIDEL BUILDING TO FAN COILS IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.
- PROVIDE PLENUM WITH 1" LINER.
- PROVIDE 1" DOOR UNDERCUT.
- INSTALL DUCTWORK IN ACCORDANCE WITH 2018 IBC 717.5.4 EXCEPTION 4. MINIMUM NO. 26 GAGE SHEET STEEL CONTINUOUS FROM AIR HANDLER TO SUPPLY/RETURN OUTLET.
- 4"Ø EXHAUST THROUGH WALL TO GALVANIZED EXTERIOR WALL CAP. MATCH ADJACENT BUILDING FINISH.



SECOND FLOOR MECHANICAL PLAN

SCALE: 1/4" = 1'-0"

DATE	01/24/22
DESCRIPTION	CONSTRUCTION DOCUMENTS
NO.	1
PLAN REVIEW RESPONSE #1	



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SECOND FLOOR
MECHANICAL PLANS

DRAWN BY
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DATE
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SCALE @ 24"x36"
1/4" = 1'-0"

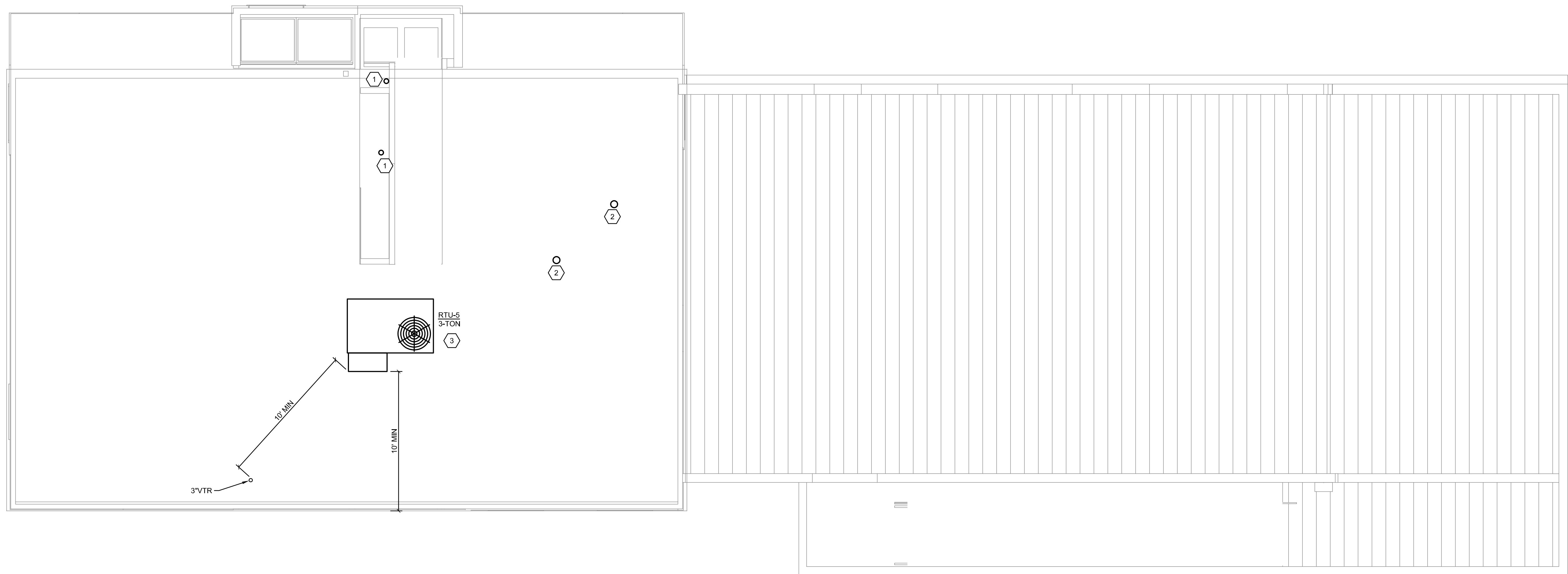
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ROOF MECHANICAL PLAN

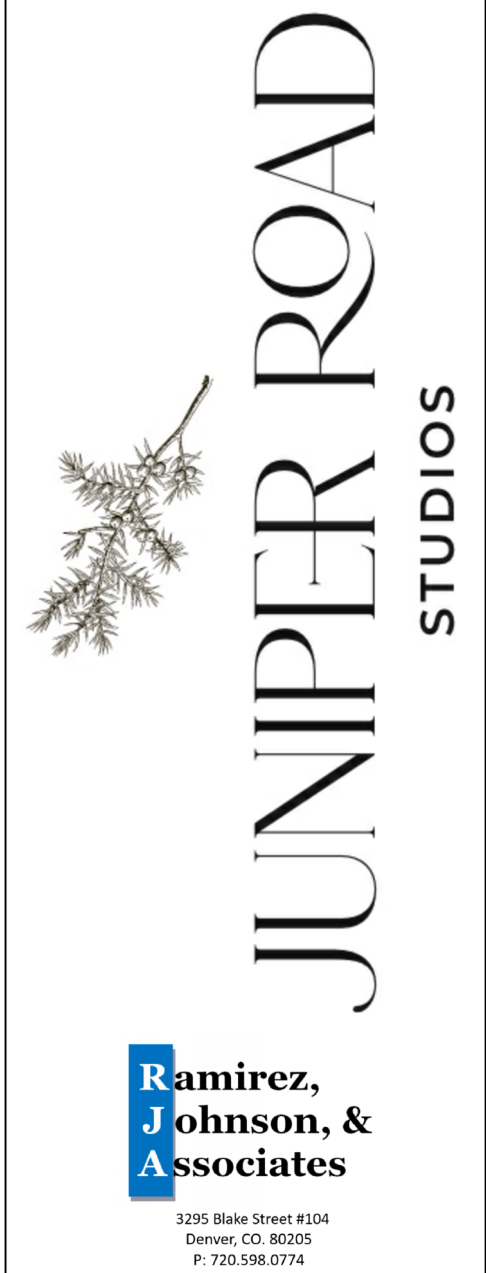
SCALE: 1/4" = 1'-0"

GENERAL NOTES

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- B. REFERENCE ALL OTHER DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK OR CLARIFICATION OF NECESSARY WORK.

KEY NOTES

1. 4"PVC CA/VENT UP THROUGH ROOF TO MANUFACTURERS RECOMMENDED TERMINATION.
2. 4"Ø EA THROUGH ROOF WITH ROOF CAP.
3. ARCHITECT TO PROVIDE PERMANENT ACCESS TO ROOF FOR EQUIPMENT MAINTENANCE.

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ROOF MECHANICAL PLANS

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SCALE @ 24"x36"
1/4" = 1'-0"

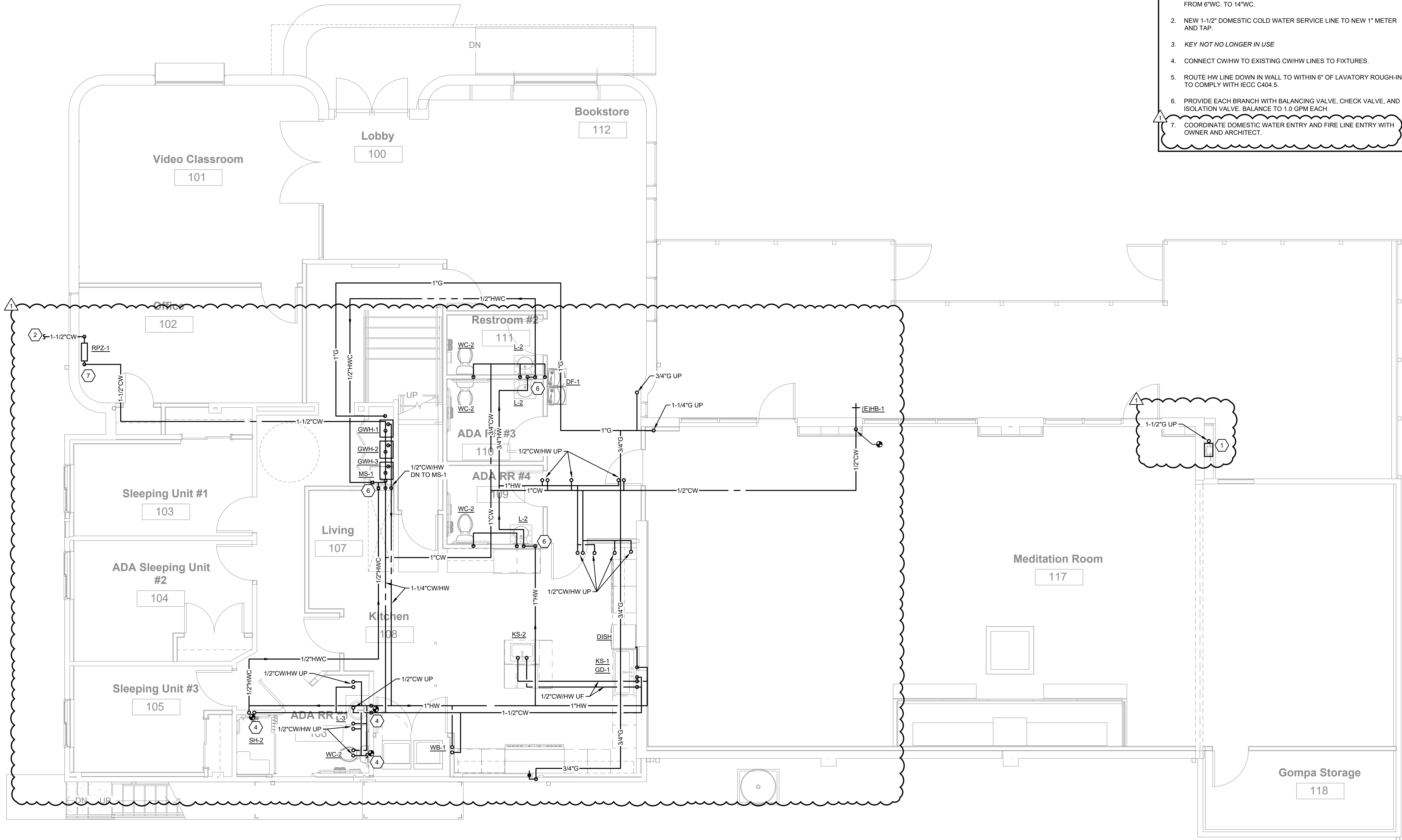
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WATER AND GAS
FIRST FLOOR PLUMBING PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

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KEY NOTES

- COORDINATE WITH GAS UTILITY TO INCREASE PRESSURE AT METER FROM 6"WC. TO 14"WC.
- NEW 1-1/2" DOMESTIC COLD WATER SERVICE LINE TO NEW 1" METER AND TAP.
- KEY NOT NO LONGER IN USE
- CONNECT CW/HW TO EXISTING CW/HW LINES TO FIXTURES.
- ROUTE HW LINE DOWN IN WALL TO WITHIN 6" OF LAVATORY ROUGH-INS TO COMPLY WITH IECC C404.5.
- PROVIDE EACH BRANCH WITH BALANCING VALVE, CHECK VALVE, AND ISOLATION VALVE. BALANCE TO 1.0 GPM EACH.
- COORDINATE DOMESTIC WATER ENTRY AND FIRE LINE ENTRY WITH OWNER AND ARCHITECT.

DATE	01/24/22
DESCRIPTION	CONSTRUCTION DOCUMENTS
PLAN REVIEW RESPONSE #1	06/14/22
NO.	1

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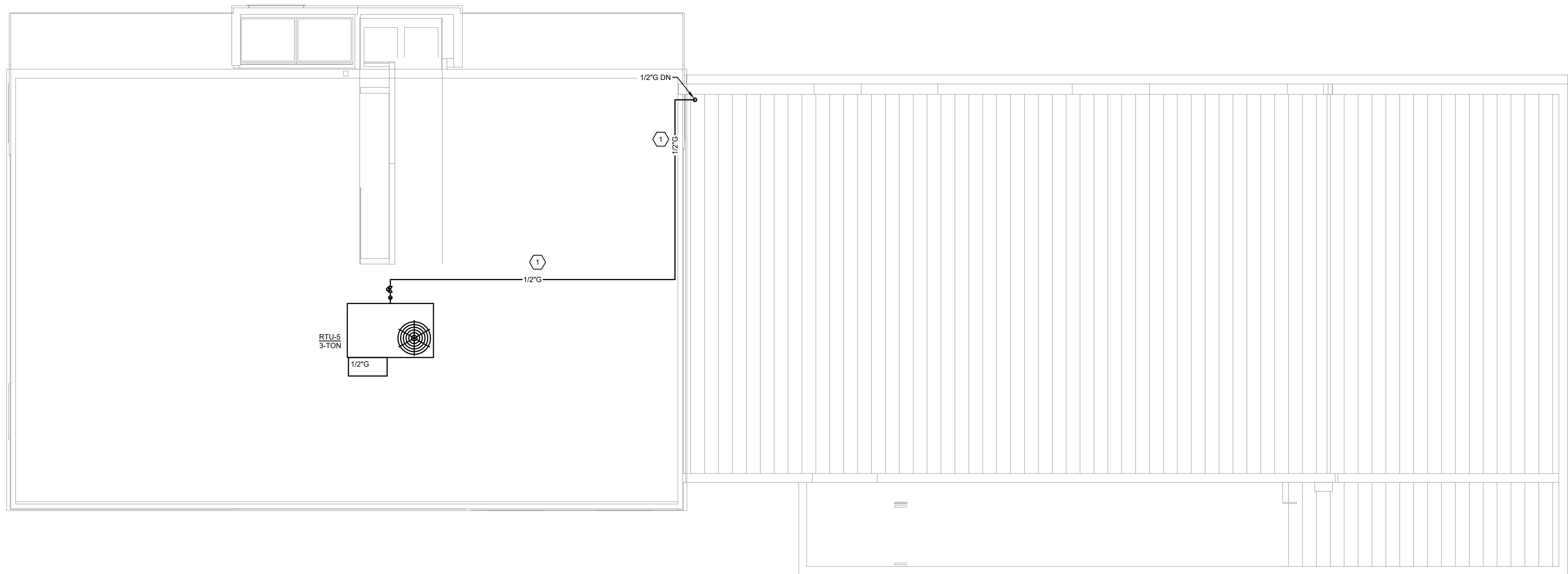
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FIRST FLOOR
WATER AND GAS
PLUMBING PLANS

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DATE	01/24/2022	REV.	1
SCALE	@ 24"x36"	PROJECT NUMBER	
1/4" = 1'-0"			

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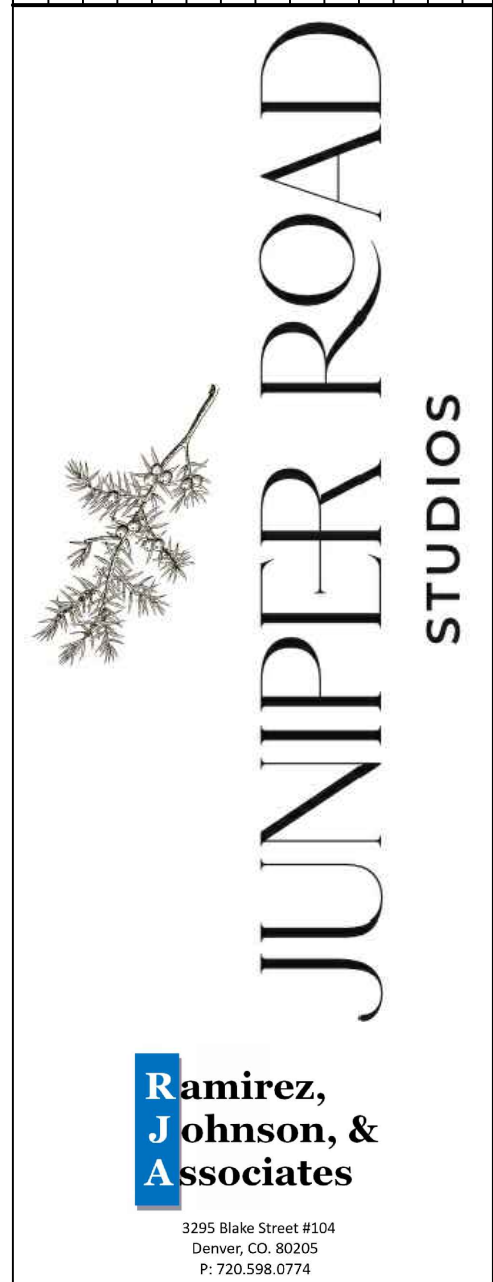
**WATER AND GAS
ROOF PLUMBING PLAN**

GENERAL NOTES

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KEY NOTES

1. SUPPORT PIPING EVERY 10'-0" OC AND AT EVERY CHANGE IN DIRECTION. UTILIZE DURABLOCK 'DB' OR EQUIVALENT

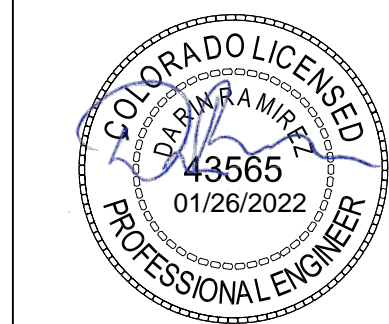
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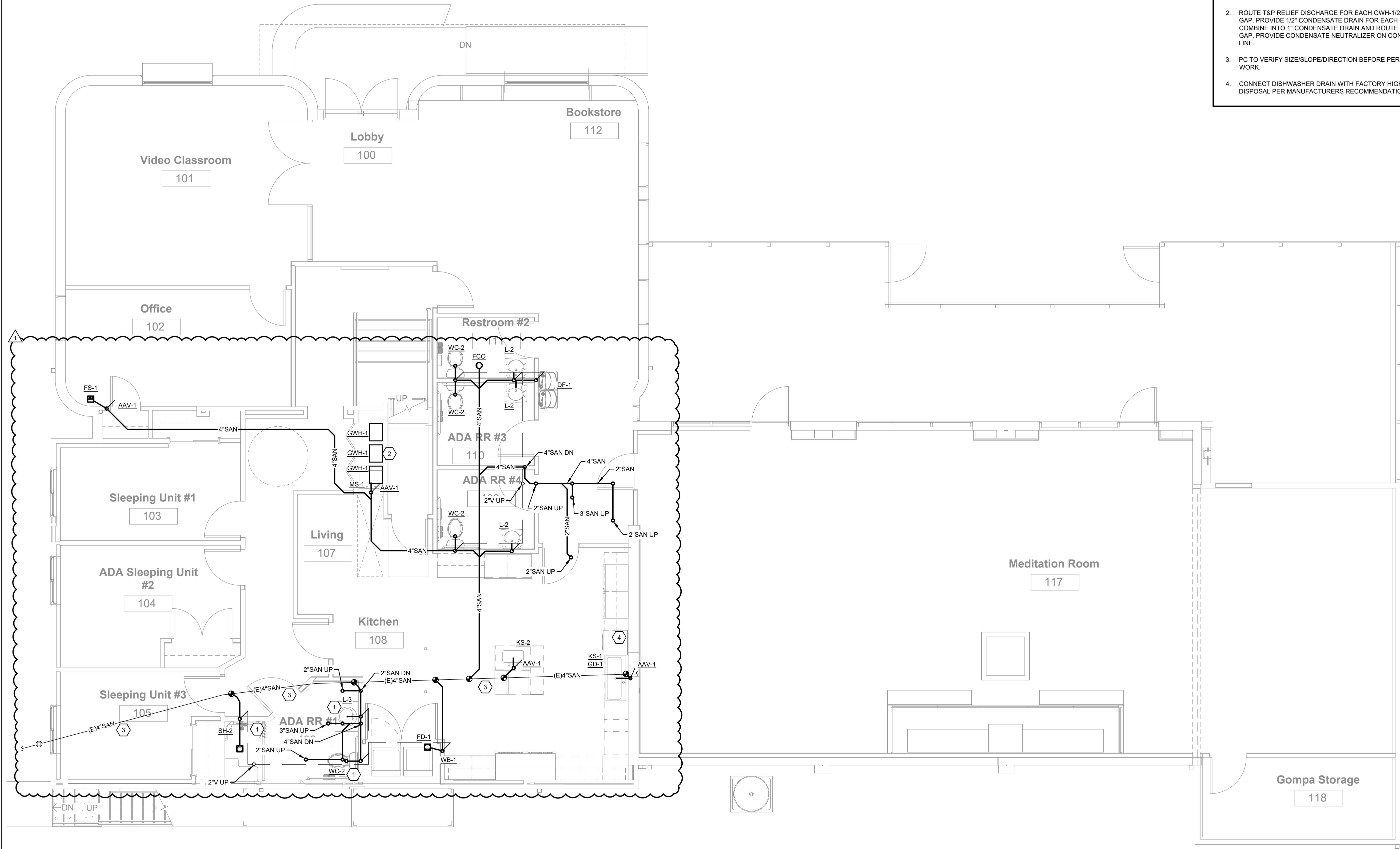


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ROOF WATER AND GAS PLUMBING PLANS

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WASTE AND VENT
FIRST FLOOR PLUMBING PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

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KEY NOTES

- RECONNECT NEW FIXTURES TO EXISTING ROUGH-INS.
- ROUTE T&P RELIEF DISCHARGE FOR EACH GWH-1/2/3 TO MS-1 WITH AIR GAP. PROVIDE 1/2" CONDENSATE DRAIN FOR EACH GWH-1/2/3 AND COMBINE INTO 1" CONDENSATE DRAIN AND ROUTE TO MS-1 WITH AIR GAP. PROVIDE CONDENSATE NEUTRALIZER ON CONDENSATE DRAIN LINE.
- PC TO VERIFY SIZE/SLOPE/DIRECTION BEFORE PERFORMING ANY WORK.
- CONNECT DISHWASHER DRAIN WITH FACTORY HIGH LOOP FITTING TO DISPOSAL PER MANUFACTURERS RECOMMENDATIONS.

NO.	DESCRIPTION	CONSTRUCTION DOCUMENTS	PLAN REVIEW RESPONSE #1	DATE
1				01/26/22
2				06/14/22
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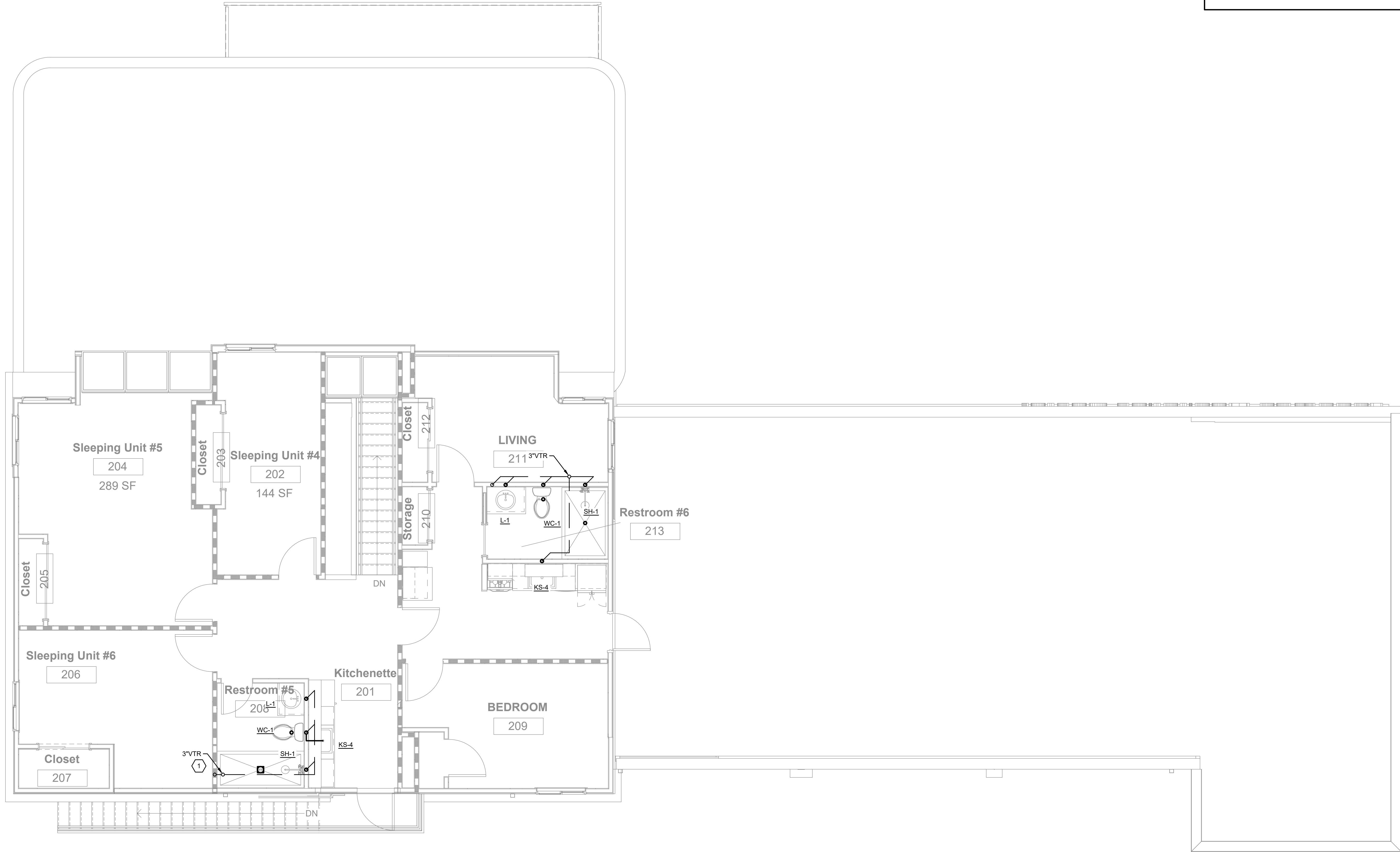
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FIRST FLOOR WASTE AND VENT PLUMBING PLANS

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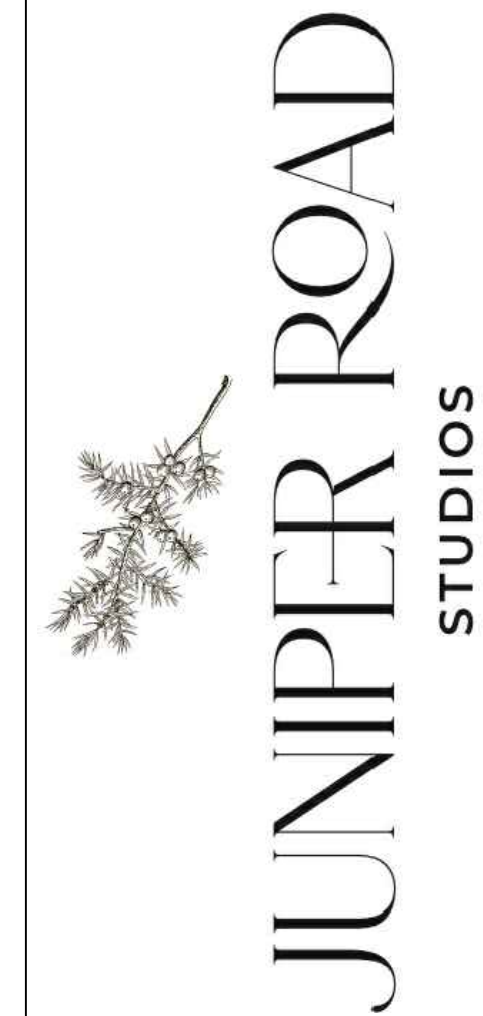


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KEY NOTES

1. MAINTAIN 10' CLEARANCE TO RTU-5 INTAKE.



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ANY WORK.

SECOND FLOOR
WASTE AND VENT
PLUMBING PLANS

DRAWN BY
RJA

SHEET
P2.1

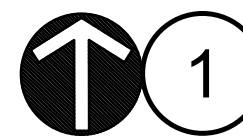
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01/24/2022

REV.
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SCALE @ 24"x36"
1/4" = 1'-0"

PROJECT NUMBER

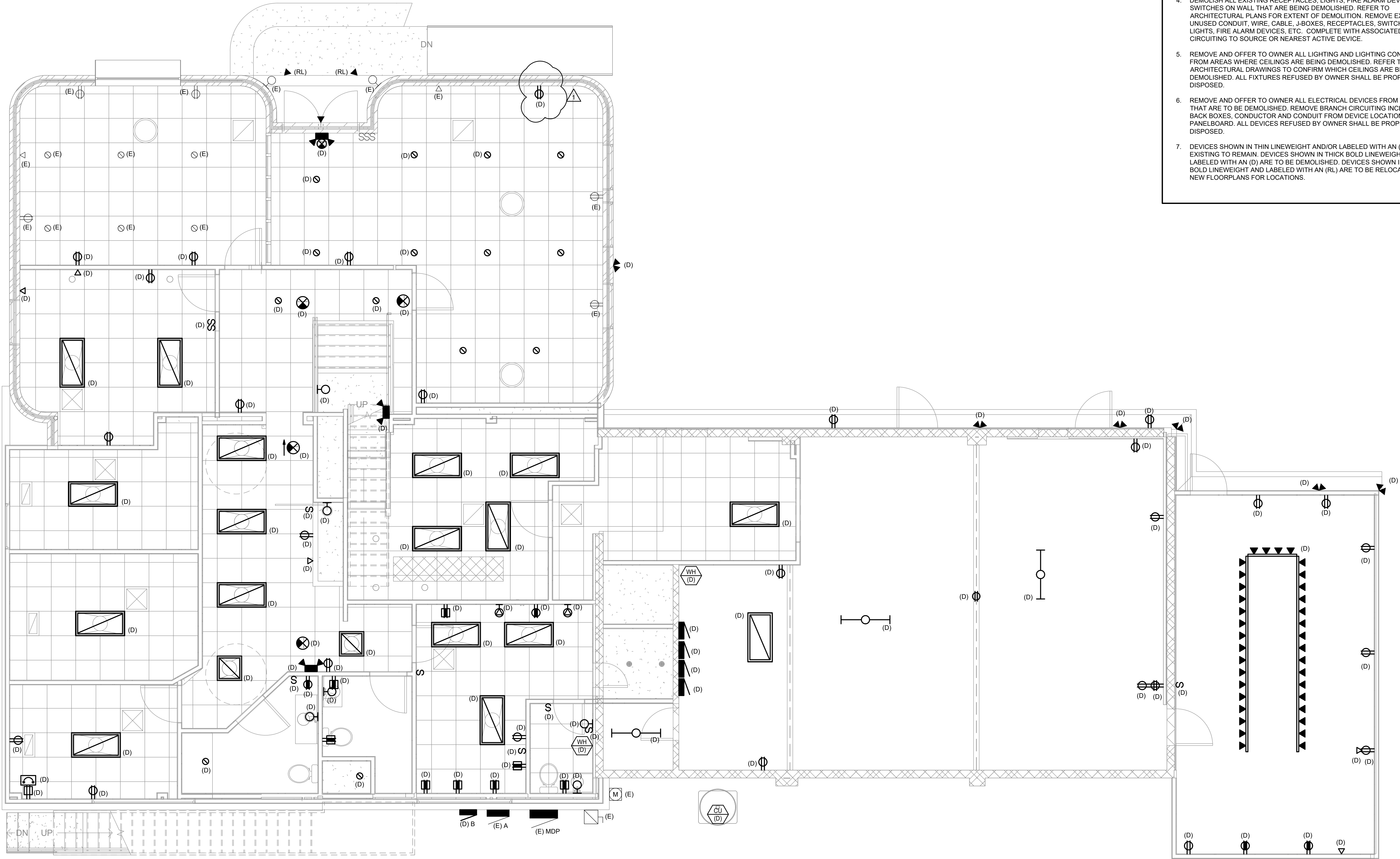
**WASTE AND VENT
SECOND LEVEL PLUMBING PLAN**



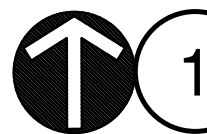
SCALE: 1/4" = 1'-0"

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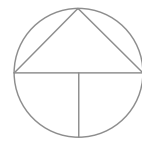


- GENERAL NOTES** (THIS SHEET)
1. INFORMATION ON THIS SHEET WAS OBTAINED FROM FIELD SURVEY OBSERVATIONS. THE DRAWINGS REPRESENT INFORMATION AS ACCURATE AS POSSIBLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BID. NOTIFY ENGINEER IMMEDIATELY IF ACTUAL FIELD CONDITIONS DIFFER FROM INFORMATION INDICATED ON THE DRAWINGS.
 2. COORDINATE SEQUENCE OF DEMOLITION WITH OWNER AND ARCHITECT PRIOR TO BEGINNING WORK.
 3. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE THEMSELVES WITH THE PROJECT AND INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH NEW WORK.
 4. DEMOLISH ALL EXISTING RECEPTACLES, LIGHTS, FIRE ALARM DEVICES AND SWITCHES ON WALL THAT ARE BEING DEMOLISHED. REFER TO ARCHITECTURAL PLANS FOR EXTENT OF DEMOLITION. REMOVE EXISTING UNUSED CONDUIT, WIRE, CABLE, J-BOXES, RECEPTACLES, SWITCHES, LIGHTS, FIRE ALARM DEVICES, ETC., COMPLETE WITH ASSOCIATED CIRCUITING TO SOURCE OR NEAREST ACTIVE DEVICE.
 5. REMOVE AND OFFER TO OWNER ALL LIGHTING AND LIGHTING CONTROLS FROM AREAS WHERE CEILINGS ARE BEING DEMOLISHED. REFER TO ARCHITECTURAL DRAWINGS TO CONFIRM WHICH CEILINGS ARE BEING DEMOLISHED. ALL FIXTURES REFUSED BY OWNER SHALL BE PROPERLY DISPOSED.
 6. REMOVE AND OFFER TO OWNER ALL ELECTRICAL DEVICES FROM WALLS THAT ARE TO BE DEMOLISHED. REMOVE BRANCH CIRCUITING INCLUDING BACK BOXES, CONDUCTOR AND CONDUIT FROM DEVICE LOCATION TO PANELBOARD. ALL DEVICES REFUSED BY OWNER SHALL BE PROPERLY DISPOSED.
 7. DEVICES SHOWN IN THIN LINEWEIGHT AND/OR LABELED WITH AN (E) ARE EXISTING TO REMAIN. DEVICES SHOWN IN THICK BOLD LINEWEIGHT AND/OR LABELED WITH AN (D) ARE TO BE DEMOLISHED. DEVICES SHOWN IN THICK BOLD LINEWEIGHT AND LABELED WITH AN (RL) ARE TO BE RELOCATED. SEE NEW FLOORPLANS FOR LOCATIONS.



FIRST FLOOR ELECTRICAL DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



DATE 01/24/22 06/14/22	DESCRIPTION CONSTRUCTION DOCUMENTS PLAN REVIEW RESPONSE #1	NO. A
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JUNIPER ROAD STUDIOS

Ramirez, Johnson, & Associates

3295 Blake Street #104
Denver, CO 80205
P: 720.588.0774

KADAMPA MEDITATION CENTER
4840 W 28th Ave
Denver, CO 80212

Building Renovation

PROFESSIONAL SEAL

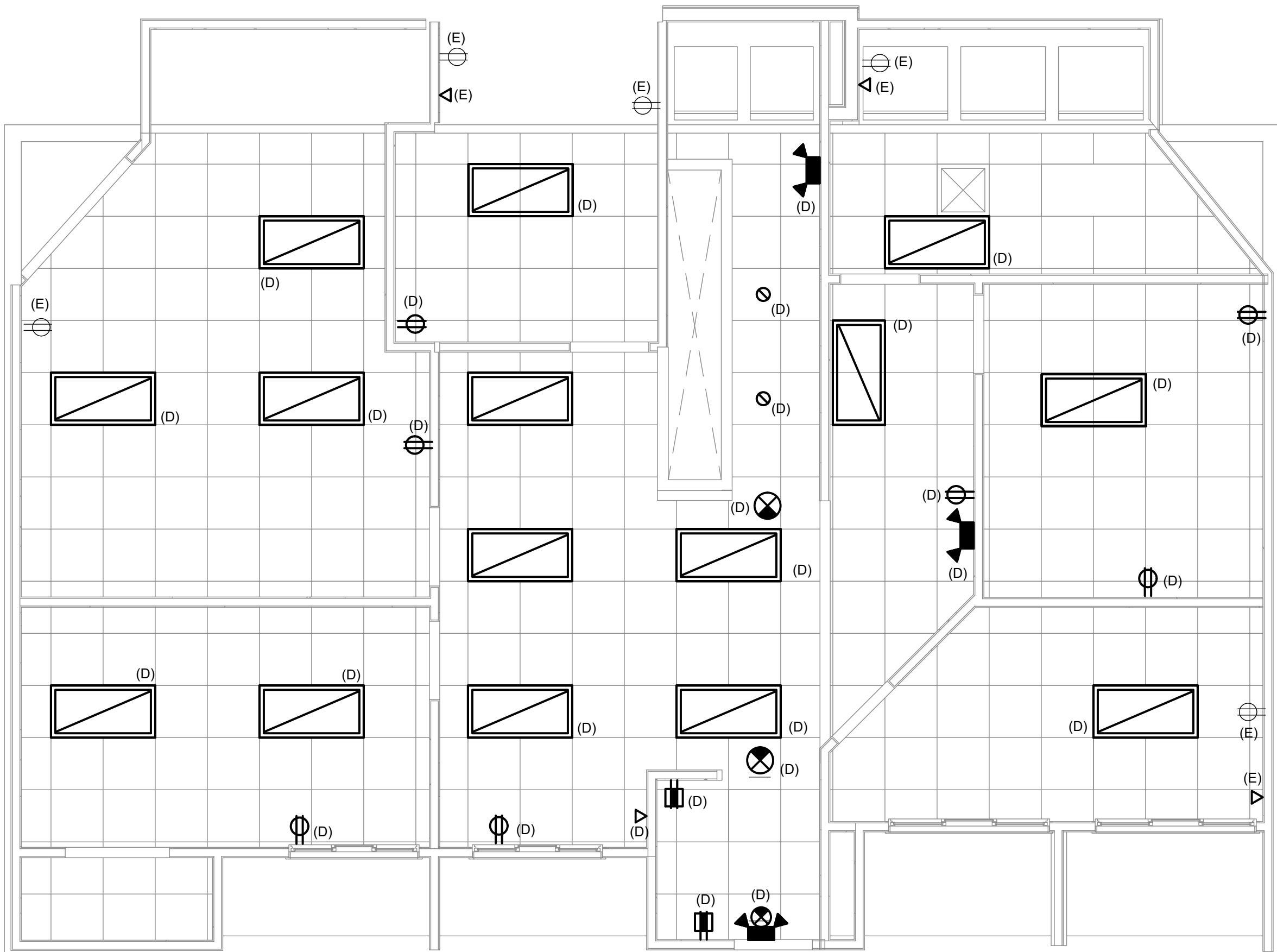
COLORADO LICENSED
THERESA W. GAY
41315
06/14/2022
PROFESSIONAL ENGINEER

DO NOT SCALE DRAWINGS
CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY JUNIPER ROAD STUDIOS LLC. OF ANY DIMENSIONAL ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK.

1ST FLOOR ELECTRICAL DEMOLITION PLAN

DRAWN BY RJA	SHEET ED1.0
DATE 01/24/2022	REV. 1
SCALE @ 24"x36" 1/4" = 1'-0"	PROJECT NUMBER

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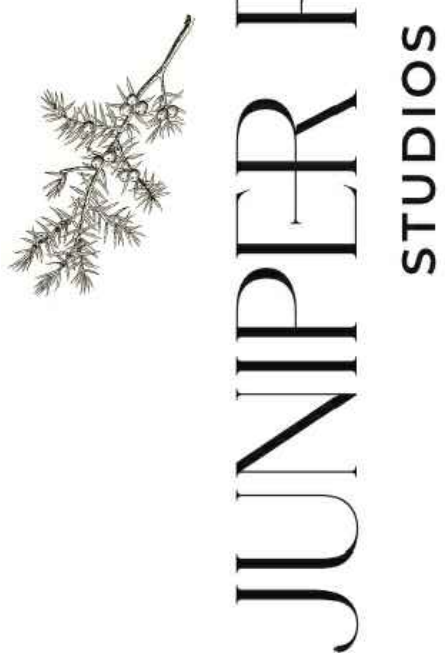

SECOND FLOOR ELECTRICAL DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES

(THIS SHEET)

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[illegible]

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Johnson, &
Associates**

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Denver, CO. 80205
P: 720.598.0774

**KADAMPA
MEDITATION CENTER**

**4840 W 29th Ave
Denver, CO 80212**

Building Renovation

PROFESSIONAL SEAL

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CONDITIONS AND DIMENSIONS
AT THE JOB SITE AND NOTIFY
JUNIPER ROAD STUDIOS LLC.

**DIMENSIONAL ERRORS, OMISSIONS,
OR DISCREPANCIES BEFORE
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ELECTRICAL SYMBOLS			ELECTRICAL GENERAL NOTES					
NOTE:			ABBREVIATIONS					
THIS IS A MASTER SYMBOLS LIST. ALL SYMBOLS, ABBREVIATIONS, ETC. MAY NOT NECESSARILY BE USED ON ALL DRAWINGS.			A AC AFC AFEA AFF AFG AHU AIC AL ATS AWG AV BFF BKR BOS BTU C CATV CCTV CFM CKT CLG CM CU (D) DDC DISC DN DPDT DPST DW DX (E) EPO FBO FF FHC FLA FLR FVNR GD GFI GFP GFR GND HOA HPS HSTAT HTG HTR IG KCMIL KV KVA KVAR KW KWH LF LRA MATV MBH MCA MCB MCC MD MDP MFR MG MH MSB MTD MW N/A NIC NIO NIC NIL OC OV PDU PHØ PIV PJ PNL PT QTY (RL) RA RCP REF REV RH RLA RPM SA SD SF SPQT SPST SP STO SWBD TSTAT TWT TV TYP UIF UG UIS UL UNO UPS VAC VAV VM W/ W/O WP WTR XFMR XP			AMPS, AIR (COMPRESSED) ABOVE COUNTER ABOVE FINISHED CEILING AREA FOR EVACUATION ASSISTANCE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AIR HANDLING UNIT ALARM INTERRUPTING CURRENT ALUMINUM AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE FOR AUDIO VISUAL MEDIA CABINET BELOW FINISHED FLOOR BREAKER BOTTOM OF STRUCTURE BRITISH THERMAL UNIT CONDUIT CABLE TELEVISION SYSTEM CLOSED CIRCUIT TELEVISION CUBIC FEET PER MINUTE CIRCUIT CEILING COFFEE MAKER COPPER, CONDENSING UNIT DEMOLISH DIRECT DIGITAL CONTROL DISCONNECT DOWN DOUBLE POLE, DOUBLE THROW DOUBLE POLE, SINGLE THROW DISHWASHER DIRECT EXPANSION EXISTING TO REMAIN EMERGENCY POWER OFF FURNISHED BY OTHERS FINISHED FLOOR FIRE HOSE CABINET FULL LOAD AMPS FLOOR FULL VOLTAGE, NON REVERSING GARBAGE DISPOSAL GROUND FAULT CIRCUIT INTERRUPTER (PERSONAL PROTECTION ON DEVICE) GROUND FAULT PROTECTED FROM UPSTREAM GFI RECEPTACLE OR CIRCUIT BREAKER GROUND FAULT RELAY GROUND HAND OFF AUTOMATIC HIGH PRESSURE SODIUM HUMIDISTAT HEATING HEATER ISOLATED GROUND 1000 CIRCULAR MILS KILOVOLT KILOVOLT AMPS KILOVOLT AMPS REACTIVE KILOWATT KILOWATT HOUR LINEAR FEET LOOKED ROTOR AMPS MASTER ANTENNA TELEVISION SYSTEM 100 BTU PER HOUR MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOTORIZED DAMPER MAIN DISTRIBUTION PANEL MANUFACTURER MOTOR GENERATOR MANHOLE MAIN SWITCHBOARD MOUNTED MICROWAVE NOT APPLICABLE NOT IN CONTRACT NORMALLY OPEN NORMALLY CLOSED NIGHT LIGHT ON CENTER OVEN POWER DISTRIBUTION UNIT PHASE POST INDICATOR VALVE MOUNTED ON CEILING FOR PROJECTOR PANEL POTENTIAL TRANSFORMER QUANTITY RELOCATE RETURN AIR REFLECTED CEILING PLAN REFRIGERATOR REVISION RELATIVE HUMIDITY RUNNING LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR SMOKE DETECTOR SQUARE FEET SINGLE POLE, DOUBLE THROW SINGLE POLE, SINGLE THROW STATIC PRESSURE SHORT TOGGLE OPERATOR SWITCHBOARD THERMOSTAT TWO TROCK TELEVISION TYPICAL UNDERFLOOR UNDERGROUND UNDER SLAB UNDERWRITERS LABORATORIES, INC. UNLESS NOTED OTHERWISE UNINTERRUPTIBLE POWER SUPPLY VOLTS ALTERNATING CURRENT, VACUUM VARIABLE AIR VOLUME VENDING MACHINE WITH WITHOUT WEATHERPROOF WATERTIGHT, WEIGHT TRANSFORMER EXPLOSION PROOF		
ONE LINE AND RISER			LIGHTING					
<div><div><div>PANEL XXX</div><div>PANEL</div></div><div><div></div><div>CURRENT TRANSFORMER, RATED AS SPECIFIED OR REQUIRED</div></div><div><div></div><div>MOTOR</div></div><div><div></div><div>SURGE PROTECTION DEVICE</div></div><div><div></div><div>GROUND CONNECTION</div></div><div><div></div><div>SWITCH, RATING AS SHOWN</div></div><div><div></div><div>FUSE, FUSE AMPACITY AND TYPE AS SHOWN</div></div><div><div></div><div>CIRCUIT BREAKER, RATING AS SHOWN</div></div><div><div></div><div>UTILITY METER (AS REQUIRED BY UTILITY)</div></div><div><div></div><div>SAFETY SWITCH, NON-FUSED, 240V, U.N.O.</div></div><div><div></div><div>FUSED DISCONNECT</div></div><div><div></div><div>COMBINATION STARTER/DISCONNECT (SIZE AS INDICATED)</div></div><div><div></div><div>ENCLOSED CIRCUIT BREAKER</div></div><div><div></div><div>TRANSFORMER, TYPE AND RATING AS SHOWN</div></div><div><div></div><div>CONDUIT CONNECTION</div></div><div><div></div><div>CIRCUIT BREAKER WITH GROUND FAULT PROTECTION</div></div><div><div></div><div>FUSE WITH GROUND FAULT PROTECTION</div></div><div><div></div><div>GROUND CONNECTION WITH TEST WELL</div></div><div><div></div><div>GROUND ROD</div></div><div><div></div><div>WEATHER HEAD</div></div><div><div></div><div>GENERATOR</div></div></div>			NOTE: UPPER CASE LETTER DENOTES LUMINAIRE TYPE. LOWER CASE LETTER ADJACENT TO LUMINAIRE INDICATES SWITCH THAT CONTROLS LUMINAIRES <div><div></div><div>2' X 4' RECESSED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>2' X 4' SURFACE MOUNTED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>2' X 2' RECESSED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>2' X 2' SURFACE MOUNTED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>1' X 4' RECESSED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>1' X 4' SURFACE MOUNTED FLUORESCENT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>1' X 4' WALL MOUNTED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>LINEAR PENDANT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>PENDANT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>STRIP TYPE LUMINAIRE, LENGTHS AS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>SURFACE MOUNTED DOWNLIGHT, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>RECESSED MOUNTED DOWNLIGHT, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>WALL MOUNTED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>WALL WASH LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>RECESSED STEP LIGHT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>TRACK LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE</div></div> <div><div></div><div>CEILING MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL ARROWS AS REQUIRED</div></div> <div><div></div><div>EMERGENCY BATTERY LUMINAIRE (2 HEAD) 84" AFF, UNLESS OTHERWISE NOTED. LETTER DENOTES LUMINAIRE TYPE.</div></div> <div><div></div><div>EMERGENCY BATTERY LUMINAIRE (2 HEAD) WITH MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL ARROWS AS REQUIRED MOUNT AT 84" AFF, UNLESS OTHERWISE NOTED. LETTER DENOTES LUMINAIRE TYPE.</div></div> <div><div></div><div>WALL MOUNTED EXIT SIGN. PROVIDE DIRECTIONAL ARROWS AS REQUIRED</div></div> <div><div></div><div>SINGLE POLE MOUNTED, EXTERIOR LUMINAIRE</div></div> <div><div></div><div>DOUBLE POLE MOUNTED, EXTERIOR LUMINAIRE</div></div> <div><div></div><div>QUAD POLE MOUNTED, EXTERIOR LUMINAIRE</div></div> <div><div></div><div>BOLLARD LUMINAIRE</div></div> <div><div></div><div>CEILING FAN</div></div> <div><div></div><div>SINGLE POLE SWITCH; 3= THREE WAY SWITCH, 4= FOUR WAY SWITCH, K= KEY SWITCH, D= DIMMER SWITCH, FAN= CEILING FAN SWITCH, T= MOTOR RATED SWITCH, 3D= THREE WAY DIMMER SWITCH, P= PILOT LIGHT, OS= OCCUPANCY SENSOR, LOWER CASE LETTER INDICATES LUMINAIRES CONTROLLED</div></div> <div><div></div><div>DUAL LEVEL SWITCH</div></div> <div><div></div><div>CEILING MOUNTED OCCUPANCY SENSOR</div></div> <div><div></div><div>DAYLIGHT SENSOR</div></div> <div><div></div><div>WALL MOUNTED TIMECLOCK</div></div>					
POWER			STANDARD MOUNTING HEIGHT U.N.O.					
<div><div></div><div>PANELBOARD, ELECTRICAL DISTRIBUTION PANEL, OR LOAD CENTER SURFACE MOUNTED</div></div> <div><div></div><div>PANELBOARD, ELECTRICAL DISTRIBUTION PANEL, OR LOAD CENTER RECESS MOUNTED</div></div> <div><div></div><div>20 AMP, 125V, NEMA 5-20R DUPLEX RECEPTACLE</div></div> <div><div></div><div>20 AMP, 125V, NEMA 5-20R SIMPLEX RECEPTACLE</div></div> <div><div></div><div>20 AMP, 125V, NEMA 5-20R QUAD RECEPTACLE</div></div> <div><div></div><div>20 AMP, 125V, NEMA 5-20R GFCI RECEPTACLE</div></div> <div><div></div><div>20 AMP, 125V, NEMA 5-20R GFCI DUPLEX RECEPTACLE, MOUNTED 6" ABOVE COUNTER AND/OR ABOVE BACKSPASH, UNLESS OTHERWISE NOTED</div></div> <div><div></div><div>20 AMP, 125V, NEMA 5-20R DUPLEX FLOOR RECEPTACLE, MOUNTED 6" ABOVE COUNTER AND/OR ABOVE BACKSPASH, UNLESS OTHERWISE NOTED</div></div> <div><div></div><div>20 AMP, 125V, NEMA 5-20R SWITCHED DUPLEX RECEPTACLE</div></div> <div><div></div><div>20 AMP, 125V, NEMA 5-20R CEILING MOUNTED DUPLEX RECEPTACLE</div></div> <div><div></div><div>20 AMP, 125V, NEMA 5-20R CEILING MOUNTED SIMPLEX RECEPTACLE</div></div> <div><div></div><div>SPECIAL RECEPTACLE, CEILING MOUNTED, CONFIGURATION AS NOTED ON PLAN</div></div> <div><div></div><div>20 AMP, 125V, NEMA 5-20R DUPLEX FLOOR RECEPTACLE, 3/4" CONDUIT RUN CONCEALED IN FLOOR SLAB</div></div> <div><div></div><div>20 AMP, 125V, NEMA 5-20R QUAD FLOOR RECEPTACLE, 3/4" CONDUIT RUN CONCEALED IN FLOOR SLAB</div></div> <div><div></div><div>JUNCTION BOX, CEILING MOUNTED</div></div> <div><div></div><div>JUNCTION BOX, WALL MOUNTED</div></div> <div><div></div><div>JUNCTION BOX, FLOOR MOUNTED</div></div> <div><div></div><div>SPECIAL RECEPTACLE, WALL MOUNTED, CONFIGURATION AS NOTED ON PLAN</div></div> <div><div></div><div>FURNITURE FEED RECEPTACLE, WALL MOUNTED, CONFIGURATION AS NOTED ON PLAN</div></div> <div><div></div><div>MOTOR, HORSEPOWER AS INDICATED ON PLANS OR DIAGRAMS</div></div> <div><div></div><div>PLUGMOLD, REFER TO DRAWING FOR LENGTHS</div></div> <div><div></div><div>SAFETY SWITCH, NON-FUSED, 240V, U.N.O.</div></div> <div><div></div><div>FUSED DISCONNECT</div></div> <div><div></div><div>COMBINATION STARTER/DISCONNECT (SIZE AS INDICATED)</div></div> <div><div></div><div>ENCLOSED CIRCUIT BREAKER</div></div> <div><div></div><div>PHOTOCELL</div></div> <div><div></div><div>SINGLE POLE SWITCH; 3= THREE WAY SWITCH, 4= FOUR WAY SWITCH, K= KEY SWITCH, D= DIMMER SWITCH, T= MOTOR RATED SWITCH, OS= OCCUPANCY SENSING, 3D= THREE WAY DIMMER SWITCH, T= MOTOR RATED SWITCH.</div></div> <div><div></div><div>GROUND BAR</div></div> <div><div></div><div>RELAY</div></div> <div><div></div><div>EMERGENCY POWER OFF (EPO) PUSH BUTTTON</div></div> <div><div></div><div>POWER POLE</div></div>			ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS INDICATED ON ELECTRICAL DRAWINGS. RECEPTACLES (CENTERLINE) RECEPTACLES IN EQUIP. RMS. RECEPTACLES (EXTERIOR) RECEPTACLES (GARAGES) ALARMS, SWITCHES AND CONTROLS (CENTERLINE) TELEPHONE (PUBLIC) TELEPHONE OUTLETS (CENTERLINE) TELEPHONE TERMINAL BOARD (BTM.) SAFETY SWITCHES STARTERS PANELS (TOP) CLOCK OUTLETS (CENTERLINE) FIRE ALARM PULL STATIONS (HANDLE) STROBES (CENTERLINE) FIRE ALARM BELLS (EXTERIOR) CONTROLS (FIRE ALARM CONTROL PANEL) ANNUNCIATION PANELS INTERCOM (AFEA ONLY) REMOTE INDICATING LIGHT (EQUIP. RMS.) REMOTE INDICATING LIGHT (FIN. AREAS) EXIT SIGNS (WALL MOUNTED BTM.) TELEVISION OUTLETS INTERCOMS PHOTOCELLS 18" 48" 24" 24" 48" 18" 6" 48" 48" 72" 44" 80" 12'-0" 48" 36" 48" 48" 48" 48" 48" 48" 18" 48" 12'-0"					
MISCELLANEOUS			CONDUIT DESIGNATIONS					
<div><div></div><div>KEY NOTE DESIGNATION</div></div> <div><div></div><div>SHORT CIRCUIT TAG DESIGNATION</div></div> <div><div></div><div>FEEDER TAG DESIGNATION</div></div> <div><div></div><div>REVISION NUMBER DESIGNATION</div></div> <div><div></div><div>NEW TO EXISTING CONNECTION</div></div> <div><div></div><div>EXISTING CONDITIONS</div></div> <div><div></div><div>DEMOLITION WORK</div></div>			<div><div></div><div>JUNCTION BOX FOR INSTALLATION OF COMMUNICATION OR DATA OUTLET, MOUNTED 18" AFF, UNLESS OTHERWISE NOTED. INSTALL 1" CONDUIT FROM BOX TO 3" INTO ACCESSIBLE LOCATION ABOVE FINISHED CEILING.</div></div> <div><div></div><div>JUNCTION BOX FOR INSTALLATION OF COMMUNICATION OR DATA OUTLET. INSTALL 1" CONDUIT FROM BOX TO 3" INTO ACCESSIBLE LOCATION ABOVE FINISHED CEILING.</div></div> <div><div></div><div>JUNCTION BOX FOR INSTALLATION OF TV OUTLET. MOUNTED 18" AFF, UNLESS OTHERWISE NOTED. INSTALL 1" CONDUIT FROM BOX TO 3" INTO ACCESSIBLE LOCATION ABOVE FINISHED CEILING. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.</div></div> <div><div></div><div>JUNCTION BOX FOR INSTALLATION OF TV OUTLET. MOUNTED 18" AFF, UNLESS OTHERWISE NOTED. INSTALL 1" CONDUIT FROM BOX TO 3" INTO ACCESSIBLE LOCATION ABOVE FINISHED CEILING. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.</div></div> <div><div></div><div>SPEAKER, CEILING MOUNTED</div></div> <div><div></div><div>SPEAKER, WALL MOUNTED, 84" (CENTERLINE) A.F.F. OR 8" (CENTERLINE) BELOW CEILINGS THAT ARE 8'-0" OR LOWER, UNLESS NOTED OTHERWISE.</div></div> <div><div></div><div>HORN SPEAKER</div></div> <div><div></div><div>CLOCK, 84" (CENTERLINE) A.F.F. OR 8" (CENTERLINE) BELOW CEILINGS THAT ARE 8'-0" OR LOWER, UNLESS NOTED OTHERWISE.</div></div>					
FIRE ALARM			CODE SUMMARY					
<div><div></div><div>FIRE ALARM CONTROL PANEL</div></div> <div><div></div><div>FIRE ALARM REMOTE ANNUNCIATOR PANEL</div></div> <div><div></div><div>SMOKE DETECTOR, ADDRESSABLE PHOTO ELECTRIC</div></div> <div><div></div><div>COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR, ADDRESSABLE PHOTO ELECTRIC</div></div> <div><div></div><div>HEAT DETECTOR</div></div> <div><div></div><div>DUCT SMOKE DETECTOR, ADDRESSABLE PHOTO ELECTRIC</div></div> <div><div></div><div>FIRE ADA ALARM STROBE MOUNTED AT 90° AFF OR 6" BELOW CEILING WHICHEVER IS LOWER</div></div> <div><div></div><div>FIRE ADA ALARM HORN MOUNTED AT 90° AFF OR 6" BELOW CEILING WHICHEVER IS LOWER</div></div> <div><div></div><div>FIRE ALARM AUDIBLE AND ADA STROBE LIGHT MOUNTED AT 90° AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER</div></div> <div><div></div><div>FIRE ALARM MANUAL PULL STATION, ADDRESSABLE DOUBLE ACTION</div></div> <div><div></div><div>MAGNETIC DOOR HOLDER</div></div> <div><div></div><div>FIRE ALARM FLOW SWITCH</div></div> <div><div></div><div>FIRE ALARM TAMPER SWITCH</div></div>			DENVER BUILDING CODE BUILDING EXISTING BUILDING FIRE MECHANICAL FUEL GAS PLUMBING ENERGY CONSERVATION ELECTRICAL FIRE ALARM 2019 DBC 2018 IBC 2018 IEBC 2018 IFC 2018 IMC 2018 IFGC 2018 IPC 2018 IECC 2020 NEC NFPA 72					
ELECTRICAL SYMBOLS			ELECTRICAL GENERAL NOTES					
NOTE:			ABBREVIATIONS					
THIS IS A MASTER SYMBOLS LIST. ALL SYMBOLS, ABBREVIATIONS, ETC. MAY NOT NECESSARILY BE USED ON ALL DRAWINGS.			A AC AFC AFEA AFF AFG AHU AIC AL ATS AWG AV BFF BKR BOS BTU C CATV CCTV CFM CKT CLG CM CU (D) DDC DISC DN DPDT DPST DW DX (E) EPO FBO FF FHC FLA FLR FVNR GD GFI GFP GFR GND HOA HPS HSTAT HTG HTR IG KCMIL KV KVA KVAR KW KWH LF LRA MATV MBH MCA MCB MCC MD MDP MFR MG MH MSB MTD MW N/A NIC NIO NIC NIL OC OV PDU PHØ PIV PJ PNL PT QTY (RL) RA RCP REF REV RH RLA RPM SA SD SF SPQT SPST SP STO SWBD TSTAT TWT TV TYP UIF UG UIS UL UNO UPS VAC VAV VM W/ W/O WP WTR XFMR XP			AMPS, AIR (COMPRESSED) ABOVE COUNTER ABOVE FINISHED CEILING AREA FOR EVACUATION ASSISTANCE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AIR HANDLING UNIT ALARM INTERRUPTING CURRENT ALUMINUM AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE FOR AUDIO VISUAL MEDIA CABINET BELOW FINISHED FLOOR BREAKER BOTTOM OF STRUCTURE BRITISH THERMAL UNIT CONDUIT CABLE TELEVISION SYSTEM CLOSED CIRCUIT TELEVISION CUBIC FEET PER MINUTE CIRCUIT CEILING COFFEE MAKER COPPER, CONDENSING UNIT DEMOLISH DIRECT DIGITAL CONTROL DISCONNECT DOWN DOUBLE POLE, DOUBLE THROW DOUBLE POLE, SINGLE THROW DISHWASHER DIRECT EXPANSION EXISTING TO REMAIN EMERGENCY POWER OFF FURNISHED BY OTHERS FINISHED FLOOR FIRE HOSE CABINET FULL LOAD AMPS FLOOR FULL VOLTAGE, NON REVERSING GARBAGE DISPOSAL GROUND FAULT CIRCUIT INTERRUPTER (PERSONAL PROTECTION ON DEVICE) GROUND FAULT PROTECTED FROM UPSTREAM GFI RECEPTACLE OR CIRCUIT BREAKER GROUND FAULT RELAY GROUND HAND OFF AUTOMATIC HIGH PRESSURE SODIUM HUMIDISTAT HEATING HEATER ISOLATED GROUND 1000 CIRCULAR MILS KILOVOLT KILOVOLT AMPS KILOVOLT AMPS REACTIVE KILOWATT KILOWATT HOUR LINEAR FEET LOOKED ROTOR AMPS MASTER ANTENNA TELEVISION SYSTEM 100 BTU PER HOUR MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOTORIZED DAMPER MAIN DISTRIBUTION PANEL MANUFACTURER MOTOR GENERATOR MANHOLE MAIN SWITCHBOARD MOUNTED MICROWAVE NOT APPLICABLE NOT IN CONTRACT NORMALLY OPEN NORMALLY CLOSED NIGHT LIGHT ON CENTER OVEN POWER DISTRIBUTION UNIT PHASE POST INDICATOR VALVE MOUNTED ON CEILING FOR PROJECTOR PANEL POTENTIAL TRANSFORMER QUANTITY RELOCATE RETURN AIR REFLECTED CEILING PLAN REFRIGERATOR REVISION RELATIVE HUMIDITY RUNNING LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR SMOKE DETECTOR SQUARE FEET SINGLE POLE, DOUBLE THROW SINGLE POLE, SINGLE THROW STATIC PRESSURE SHORT TOGGLE OPERATOR SWITCHBOARD THERMOSTAT TWO TROCK TELEVISION TYPICAL UNDERFLOOR UNDERGROUND UNDER SLAB UNDERWRITERS LABORATORIES, INC. UNLESS NOTED OTHERWISE UNINTERRUPTIBLE POWER SUPPLY VOLTS ALTERNATING CURRENT, VACUUM VARIABLE AIR VOLUME VENDING MACHINE WITH WITHOUT WEATHERPROOF WATERTIGHT, WEIGHT TRANSFORMER EXPLOSION PROOF		
ONE LINE AND RISER			LIGHTING					
<div><div><div>PANEL XXX</div><div>PANEL</div></div><div><div></div><div>CURRENT TRANSFORMER, RATED AS SPECIFIED OR REQUIRED</div></div><div><div></div><div>MOTOR</div></div><div><div></div><div>SURGE PROTECTION DEVICE</div></div><div><div></div><div>GROUND CONNECTION</div></div><div><div></div><div>SWITCH, RATING AS SHOWN</div></div><div><div></div><div>FUSE, FUSE AMPACITY AND TYPE AS SHOWN</div></div><div><div></div><div>CIRCUIT BREAKER, RATING AS SHOWN</div></div><div><div></div><div>UTILITY METER (AS REQUIRED BY UTILITY)</div></div><div><div></div><div>SAFETY SWITCH, NON-FUSED, 240V, U.N.O.</div></div><div><div></div><div>FUSED DISCONNECT</div></div><div><div></div><div>COMBINATION STARTER/DISCONNECT (SIZE AS INDICATED)</div></div><div><div></div><div>ENCLOSED CIRCUIT BREAKER</div></div><div><div></div><div>TRANSFORMER, TYPE AND RATING AS SHOWN</div></div><div><div></div><div>CONDUIT CONNECTION</div></div><div><div></div><div>CIRCUIT BREAKER WITH GROUND FAULT PROTECTION</div></div><div><div></div><div>FUSE WITH GROUND FAULT PROTECTION</div></div><div><div></div><div>GROUND CONNECTION WITH TEST WELL</div></div><div><div></div><div>GROUND ROD</div></div><div><div></div><div>WEATHER HEAD</div></div><div><div></div><div>GENERATOR</div></div></div>			NOTE: UPPER CASE LETTER DENOTES LUMINAIRE TYPE. LOWER CASE LETTER ADJACENT TO LUMINAIRE INDICATES SWITCH THAT CONTROLS LUMINAIRES <div><div></div><div>2' X 4' RECESSED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>2' X 4' SURFACE MOUNTED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>2' X 2' RECESSED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>2' X 2' SURFACE MOUNTED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>1' X 4' RECESSED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>1' X 4' SURFACE MOUNTED FLUORESCENT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>1' X 4' WALL MOUNTED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>LINEAR PENDANT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>PENDANT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>STRIP TYPE LUMINAIRE, LENGTHS AS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>SURFACE MOUNTED DOWNLIGHT, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>RECESSED MOUNTED DOWNLIGHT, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>WALL MOUNTED LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>WALL WASH LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>RECESSED STEP LIGHT LUMINAIRE, MOUNTING IS NOTED ON LUMINAIRE SCHEDULE. HATCHING DENOTES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY BACKUP.</div></div> <div><div></div><div>TRACK LUM</div></div>					

PART I - GENERAL		DESCRIPTION	DATE								
1.01 GENERAL PROJECT REQUIREMENTS											
A. ALL DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING DIVISION 1 SPECIFICATIONS SECTIONS AND GENERAL AND SUPPLEMENTARY CONDITIONS, SHALL APPLY TO THIS SECTION.											
B. RELATED DOCUMENTS: ARCHITECTURAL SPECIFICATIONS, LIGHTING FIXTURE SPECIFICATIONS INCLUDED IN OTHERS DOCUMENTS, GENERAL, SPECIAL AND SUPPLEMENTARY CONDITIONS, AND SIMILAR DOCUMENTS SHALL FORM A PART OF THESE SPECIFICATIONS.											
C. SCOPE OF WORK: PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT AND CONTRACTOR'S SERVICES NECESSARY FOR COMPLETE AND SAFE INSTALLATION OF ELECTRICAL WORK IN CONFORMITY WITH REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION, AS INDICATED ON DRAWINGS AND/OR DESCRIBED IN THESE SPECIFICATIONS.											
D. SITE CLEANLINESS: KEEP SITE FREE FROM SURPLUS MATERIAL, TOOLS, AND RUBBISH AT ALL TIMES DURING CONSTRUCTION PERIOD AND, UPON COMPLETION, LEAVE SITE IN CLEAN CONDITION.											
E. DAMAGE: REPAIR ANY DAMAGE CAUSED TO WORK OF OTHER TRADES AND ANY OTHER DAMAGE CAUSED BY THIS SECTION TO INTENDED/ORIGINAL CONDITION.											
F. PASSAGE OF EQUIPMENT: CHECK THE DIMENSIONS OF EQUIPMENT OF THIS SECTION TO ENSURE THAT SUCH EQUIPMENT CAN PASS THROUGH THE NECESSARY AREAS TO REACH ITS ULTIMATE INSTALLED LOCATION. INCLUDE IN BID COSTS FOR ALL WORK REQUIRED, INCLUDING ANY WORK REQUIRED TO MOVE THE EQUIPMENT THROUGH THE SITE TO THIS FINAL LOCATION AND ANY DISMANTLING/RE-ASSEMBLY.											
G. GUARANTEE: CONTRACTOR SHALL GUARANTEE THAT ALL PORTIONS OF THE WORK ARE IN ACCORDANCE WITH CONTRACT REQUIREMENTS, GUARANTEE AGAINST DEFECTS, AND IMPROPER MATERIALS AND WORKMANSHIP FOR A MINIMUM PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER. IF GUARANTEES OR WARRANTIES FOR LONGER TERMS ARE SPECIFIED BY CONTRACT, SUCH LONGER TERM SHALL APPLY.											
H. PERMITS AND INSPECTIONS: CONTRACTOR SHALL SECURE ALL APPROVALS AND PAY ALL FEES FOR WORK INSTALLED AND DELIVER CERTIFICATE TO OWNER. INCLUDE ALL COSTS IN BASE BID.											
I. PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VERIFY ALLOWABLE WORKING HOURS, ELEVATOR PARKING AREAS, MATERIAL DELIVERY AND STORAGE REQUIREMENTS, AND REQUIREMENTS FOR DEMOLITION AND REMOVAL OF CONSTRUCTION DEBRIS (IF ANY). INCLUDE ALL COSTS IN BID FOR DUST BARRIERS AND DUMPSTERS FOR THE DURATION OF THE PROJECT AS REQUIRED.											
J. DURING PREPARATION OF BID, CONTRACTOR MAY DISCOVER ERRORS IN THESE DOCUMENTS OR DISCREPANCIES BETWEEN THESE DOCUMENTS AND THOSE OF OTHER TRADES. IN CASE OF DISCREPANCIES, CONTRACTOR IS RESPONSIBLE FOR BIDDING THE GREATER QUANTITY OR HIGHER QUALITY ITEMS IF NO SUFFICIENT RESOLUTION OF THE DISCREPANCY IS DETERMINED PRIOR TO SUBMITTING BID.											
K. RECORD DRAWINGS: UPON PROJECT COMPLETION, DELIVER TO OWNER ONE SET OF REPRODUCIBLE DRAWINGS AND ONE BOUND SET OF BLUEPRINTS AND PANEL SCHEDULES SHOWING ALL WORK AS ACTUALLY INSTALLED.											
1.02 DEFINITIONS AND TERMINOLOGY		CONSTRUCTION DOCUMENTS	01/26/22								
A. DRAWINGS AND SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES, WORDS OR OTHER PHRASES SUCH AS "AS SHOWN", "AS NOTED", "AS INDICATED", "PROVIDE", "AT", "AN", "THE" AND "ALL" MAY BE OMITTED FOR BREVITY.											
B. WORDS AND/OR PHRASES USED IN THESE DOCUMENTS ARE DEFINED AS FOLLOWS: 1. "TURNISH" OR "PROVIDE": TO SUPPLY, INSTALL AND CONNECT COMPLETELY AND READY FOR SAFE AND REGULAR OPERATION OF PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY NOTED OTHERWISE. 2. "INSTALL": TO ERECT, MOUNT, AND CONNECT COMPLETE WITH ANY NECESSARY RELATED ACCESSORIES (WHETHER SPECIFICALLY INDICATED OR NOT). 3. "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE, AND DELIVER COMPLETE WITH ANY NECESSARY RELATED ACCESSORIES. 4. "WORK": LABOR, MATERIALS, EQUIPMENT, AND ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION. 5. "CONTRACTOR": ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE. 6. "PROJECT MANAGER": THE ENTITY/PROFESSIONAL RESPONSIBLE FOR COORDINATION AND COMPLETION OF ALL REQUIRED WORK FOR THIS PROJECT (THE ENTITY/PROFESSIONAL IN GENERAL, CONTRACTOR OR ARCHITECT OR OTHER AUTHORITY AS DESIGNATED IN THE CONTRACT). 7. "OWNER": THE OWNER OR TENANT THAT IS THE ULTIMATE RECIPIENT OF THE CONSTRUCTION WORK PERFORMED. 8. "WIRING": RACEWAY, FITTINGS, CONDUCTORS, BOXES, AND RELATED ITEMS. 9. "CONCEALED": INSTALLED EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS, IN TRENCHES, IN CRAWL SPACES, IN ATTIC SPACES, OR AS DEFINED IN NEC ARTICLE 100. 10. "EXPPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE, OR AS DEFINED IN NEC ARTICLE 100. 11. "EQUAL": ACCEPTABLE EQUIVALENCE IN MATERIALS, WEIGHT, SIZE, DESIGN, OPERATION, AND EFFICIENCY OF SPECIFIED PRODUCT. FINAL DETERMINATION OF ACCEPTABLE EQUIVALENCE SHALL BE MADE BY ENGINEER WHEN AN ITEM IS INDICATED AS "APPROVED EQUAL".											
C. WHERE TERMS ARE NOT DEFINED IN THESE DOCUMENTS, THE DEFINITIONS IN NEC ARTICLE 100 SHALL TAKE PRECEDENCE.											
1.03 REFERENCE STANDARDS											
A. COMPLY WITH ALL PUBLISHED CODES, SPECIFICATIONS, STANDARDS, TESTS, OR RECOMMENDED METHODS OF TRADE, INDUSTRY OR GOVERNMENTAL ORGANIZATIONS, OR LOCAL ORDINANCES AS THEY APPLY IN THIS DIVISION AS OUTLINED BELOW: 1. ADA - AMERICANS WITH DISABILITIES ACT. 2. ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE. 3. ASTM - AMERICAN SOCIETY OF TESTING AND MATERIALS. 4. CBM - CERTIFIED BALLAST MANUFACTURERS. 5. ETL - ELECTRICAL TESTING LABORATORIES. 6. FAA - FEDERAL AVIATION ADMINISTRATION. 7. FCC - FEDERAL COMMUNICATIONS COMMISSION. 8. FM - FACTORY MUTUAL. 9. IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS. 10. IES - ILLUMINATING ENGINEERING SOCIETY. 11. NEC - NATIONAL ELECTRICAL CODE. 12. NECA - NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION. 13. NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION. 14. NFPA - NATIONAL FIRE PROTECTION ASSOCIATION. 15. OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT. 16. UL - UNDERWRITERS' LABORATORIES, INC. 17. LOCALLY ADOPTED BUILDING CODES AND/OR OTHER BUILDING CODES SPECIFIC TO THIS JURISDICTION. 18. LOCALLY ADOPTED ELECTRICAL CODES AND/OR OTHER ELECTRICAL CODES SPECIFIC TO THIS JURISDICTION. 19. LOCAL UTILITY AUTHORITIES. 20. LOCAL FIRE DEPARTMENT.											
B. COMPLIANCE WITH GOVERNING CODES AND REGULATIONS SHALL BE SUBJECT TO THE FOLLOWING GUIDELINES: 1. DRAWINGS AND SPECIFICATION REQUIREMENTS SHALL GOVERN WHERE THEY EXCEED GOVERNING CODE AND REGULATION REQUIREMENTS. 2. WHERE REQUIREMENTS BETWEEN GOVERNING CODES AND REGULATIONS VARY, THE MORE STRINGENT SHALL APPLY. 3. NOTHING CONTAINED IN CONTRACT DOCUMENTS SHALL BE CONSTRUED AS AUTHORITY OR PERMISSION TO DISREGARD OR VIOLATE LEGAL REQUIREMENTS. CONTRACTOR SHALL IMMEDIATELY DRAW THE ATTENTION OF THE PROJECT MANAGER TO ANY SUCH CONFLICTS NOTED IN THE CONTRACT DOCUMENTS.											
1.04 SUBMITTALS											
A. PROVIDE ELECTRONIC COPIES OF SUBMITTALS WITH DESCRIPTIVE DATA FOR ALL PRODUCTS AND MATERIALS BY ENGINEER PRIOR TO ORDERING. SUBMITTALS SHALL CLEARLY IDENTIFY MANUFACTURER, MODEL NUMBER, AND ANY DETAILS NECESSARY TO SHOW COMPLIANCE WITH THE SPECIFICATION DOCUMENTS IN ADDITION TO THOSE PARAMETERS OUTLINED BELOW FOR THE FOLLOWING ITEMS: 1. LIGHTING FIXTURES: INCLUDING PHOTOMETRIC PERFORMANCE DATA AND ANALYSIS (WITH PARAMETERS OUTLINED) AS REQUIRED BY ENGINEER, FIXTURE POLES AND MOUNTING ARMS, BALLASTS, AND LAMPS. 2. DEVICES AND EQUIPMENT: INCLUDING WALL SWITCHES, WALL-BOX DIMMERS, RECEPTACLES, DEVICE COVER PLATES, SAFETY SWITCHES, ETC. 3. OVERCURRENT DEVICES: INCLUDING TIME/CURRENT CURVES IF REQUESTED. 4. SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS, AND PANELBOARDS: DIMENSIONS, ENCLOSURE DATA, VOLTAGE AND PHASE, AMPACITY, OVERCURRENT DEVICES (INCLUDING QUANTITIES, AMPACITY RATINGS, TYPES, POLES, ETC.), CATALOG CUTS, AND ANY RELATED ACCESSORIES. 5. TRANSFORMERS: WEIGHT OF TRANSFORMER, MOUNTING DETAILS, AND PERFORMANCE DATA (INCLUDING IMPEDANCE, EFFICIENCY, AND SOUND LEVEL). 6. SPECIAL SYSTEMS AND EQUIPMENT: ARCHITECTURAL/THEATRICAL DIMMING EQUIPMENT AND CONTROLS, OCCUPANCY AND DAYLIGHT HARVESTING SENSORS, EMERGENCY POWER SOURCES AND RELATED TRANSFER EQUIPMENT, TRANSIENT VOLTAGE SURGE SUPPRESSORS, SUB-METERING DEVICES, ETC.											
B. SHOP DRAWINGS: COORDINATED LAYOUT PLANS FOR ELECTRICAL ROOMS, INFORMATION TECHNOLOGY ROOMS, AND OTHER SPECIALIZED AREAS AS REQUESTED BY THE ENGINEER, SHOWING WORK OF ALL TRADES INCLUDING BUT NOT LIMITED TO DUCTWORK, HVAC, PLUMBING, FIRE PROTECTION PIPING, ELECTRICAL CONDUITS, BUS DUCTS, AND ALL RELATED EQUIPMENT.											
1.05 SUBSTITUTIONS				2							
A. PROCEDURE: CONTRACTOR'S BID SHALL INCLUDE PRODUCTS AS OUTLINED IN THE SPECIFICATION DOCUMENTS, EXCEPT IN THE CASE OF PRODUCT UNAVAILABILITY. SUBSTITUTIONS WILL NOT BE ALLOWED. ENGINEER WILL CONSIDER FORMAL REQUESTS FOR SUBSTITUTION OF PRODUCTS ONLY IF THE REQUEST MEETS THE FOLLOWING CONDITIONS: 1. WRITTEN EVIDENCE OF PRODUCT UNAVAILABILITY NECESSITATING THE PROPOSED SUBSTITUTION FROM THE SPECIFIED PRODUCTS' MANUFACTURER REPRESENTATIVE OR SUPPLIER. 2. COMPLETE DATA SUBSTANTIATING COMPLIANCE OF PROPOSED SUBSTITUTION WITH REQUIREMENTS AND SPECIFICATIONS STATED IN CONTRACT DOCUMENTS. 3. DATA RELATING TO CHANGES IN CONSTRUCTION SCHEDULE. 4. COMPLETE DESCRIPTION OF ANY EFFECT OF SUBSTITUTION ON OTHER WORK IN THIS AND OTHER TRADES.											
B. FAILURE TO PLACE ORDERS FOR SPECIFIED ITEMS IN A TIMELY MANNER (WITH RESPECT TO THE PROJECT MANAGER'S CONSTRUCTION SCHEDULE) DOES NOT CONSTITUTE PRODUCT UNAVAILABILITY.											
C. CONTRACTOR SHALL BE RESPONSIBLE AT NO EXTRA COST TO OWNER FOR ANY CHANGES RESULTING FROM PROPOSED SUBSTITUTIONS WHICH AFFECT WORK OF OTHER TRADES OR RELATED CONTRACTS.											
D. CLAIMS FOR ADDITIONAL COSTS CAUSED BY SUBSTITUTION WHICH MAY SUBSEQUENTLY BECOME APPARENT SHALL BE MET BY THE CONTRACTOR.											
E. SUBSTITUTIONS WILL NOT BE CONSIDERED FOR ACCEPTANCE WHEN ACCEPTANCE WILL REQUIRE SUBSTANTIAL REVISION OF CONTRACT DOCUMENTS, UNLESS CONTRACTOR BEARS COST OF REDESIGN.											
F. SUBSTITUTE PRODUCTS SHALL NOT BE ORDERED OR INSTALLED WITHOUT PRIOR WRITTEN APPROVAL/ACCEPTANCE BY ENGINEER.		CONSTRUCTION DOCUMENTS		01/26/22							
1.06 PRODUCT DELIVERY, STORAGE, AND HANDLING											
A. SHIP EQUIPMENT IN ORIGINAL PACKAGES TO PREVENT DAMAGE OR ENTRANCE OF FOREIGN MATTER. HANDLE AND SHIP IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.											
B. PROVIDE AND MAINTAIN PROTECTIVE COVERINGS DURING CONSTRUCTION.											
C. REPLACE, AT NO EXPENSE TO OWNER, EQUIPMENT OR MATERIAL DAMAGED, LOST, OR STOLEN DURING STORAGE OR HANDLING AS DIRECTED BY THE PROJECT MANAGER.											
1.07 EXISTING CONDITIONS (AS APPLICABLE)					CONSTRUCTION DOCUMENTS	01/26/22					
A. VERIFICATION: BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AND THE PRESENT INSTALLATIONS TO WHICH CONNECTIONS MUST BE MADE OR WHICH MUST BE ALTERED. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN, AND NO CONSIDERATION WILL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS, REQUIREMENTS, AND PRACTICES AT THE SITE.											
B. TEMPORARY SHUTDOWNS: SHALL BE PERFORMED AT NO ADDITIONAL CHARGES TO OWNER. SHUTDOWNS SHALL BE UNDERTAKEN AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING FACILITIES. OBTAIN WRITTEN CONSENT OF OWNER PRIOR TO SHUTDOWNS.											
C. ALARM AND EMERGENCY SYSTEMS SHALL NOT BE INTERRUPTED.											
D. CONNECTIONS TO EXISTING WORK: INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.											
E. REMOVAL AND RELOCATION OF EXISTING WORK: 1. DISCONNECT AND REMOVE OR RELOCATE ANY ELECTRICAL EQUIPMENT AND/OR DEVICES REQUIRED BY REMOVAL OR CHANGES IN EXISTING CONSTRUCTION. 2. REMOVE CONDUCTORS FROM EXISTING RACEWAYS TO BE REUSED AND REPLACE WITH NEW CONDUCTORS. 3. REMOVE EXISTING CONDUCTORS NO LONGER USED. REMOVE RACEWAYS IN ALL CASES EXCEPT WHERE THE REMOVAL OF THE RACEWAY WOULD CAUSE DAMAGE TO EXISTING CONSTRUCTION OR COMPLETION OF THIS PROJECT AS "ABANDONED" (AN UNUSUAL CASE). 4. CUT AND CAP ABANDONED FLOOR RACEWAYS FLUSH WITH CONCRETE FLOOR OR BEHIND WALLS AND CEILINGS. 5. DISPOSE OF ALL REMOVED RACEWAYS AND WIRE. 6. DISPOSE OF REMOVED ELECTRICAL EQUIPMENT, LIGHTING FIXTURES, AND DEVICES AS DIRECTED. 7. CUT AND PATCH EXISTING CONSTRUCTION AS REQUIRED. ALL PATCHING SHALL BE OF THE SAME MATERIALS, FINISH, AND WORKMANSHIP AS THE EXISTING AREA AND SHALL APPEAL VISUALLY MATCH ALL SURROUNDING WORK TO THE SATISFACTION OF THE PROJECT MANAGER. 8. IF ASBESTOS INSULATION IS FOUND WHEN WORKING IN EXISTING AREAS, IMMEDIATELY STOP WORK AND NOTIFY PROJECT MANAGER. DO NOT RESTART WORK UNTIL ADVISED IN WRITING BY PROJECT MANAGER THAT IT IS SAFE TO DO SO FOLLOWING ABATEMENT, ENCAPSULATIONS, ETC.											
1.08 TELECOMMUNICATIONS AND OTHER LOW-VOLTAGE SYSTEMS		CONSTRUCTION DOCUMENTS	01/26/22								
A. SCOPE: ALL TELECOMMUNICATIONS AND OTHER LOW-VOLTAGE CABLE DESIGNS ARE OUTSIDE OF THE SCOPE OF THE ELECTRICAL DOCUMENTS. THE DOCUMENTS REPRESENT THE GENERAL ARRANGEMENT OF TELECOMMUNICATIONS AND LOW-VOLTAGE SYSTEMS. CONTRACTOR SHALL VERIFY EXACT RACEWAY, JUNCTION BOX, AND DEVICE BOX REQUIREMENTS WITH THE OWNER'S SELECTED TELECOMMUNICATIONS CONSULTANT PRIOR TO ORDERING THE COMPONENTS OF THE RACEWAY AND BOX SYSTEM.											
B. SUBMITTALS: CONTRACTOR SHALL SUBMIT ALL COMPONENTS OF THE TELECOMMUNICATIONS AND OTHER LOW-VOLTAGE SYSTEMS TO THE OWNER'S SELECTED TELECOMMUNICATIONS CONSULTANT FOR APPROVAL.											
PART II - PRODUCTS							CONSTRUCTION DOCUMENTS	01/26/22			
2.01 QUALITY ASSURANCE											
A. QUALITY OF MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING: 1. MATERIALS SHALL BE NEW AND LISTED BY UL (OR SIMILAR AGENCY ACCEPTED BY THE AUTHORITY HAVING JURISDICTION) AND BEARING THEIR LABEL. 2. MATERIALS AND EQUIPMENT OF SIMILAR APPLICATION SHALL BE OF THE SAME MANUFACTURER, UNLESS OTHERWISE NOTED. 3. MATERIALS SHALL CONFORM TO NEMA, ANSI, AND IEEE STANDARDS.											
2.02 RACEWAYS					CONSTRUCTION DOCUMENTS				01/26/22		
A. RIGID GALVANIZED STEEL CONDUIT (RGS): FULL-WEIGHT PIPE, GALVANIZED, THREADED.											
B. INTERMEDIATE METAL CONDUIT (IMC): LIGHTWEIGHT STEEL PIPE, GALVANIZED, THREADED.											
C. ELECTROMETALLIC TUBING (EMT): THIN WALL PIPE, GALVANIZED, THREADED.											
D. RIGID NONMETALLIC CONDUIT: SCHEDULE 40 PVC.											
E. FLEXIBLE STEEL CONDUIT: STANDARD-WALL, GALVANIZED.											
F. FLEXIBLE ALUMINUM CONDUIT: STANDARD-WALL.											
G. MINIMUM TRADE SIZE IS 1/2" FOR ALL RIGID AND FLEXIBLE CONDUITS.											
2.03 RACEWAY FITTINGS AND ACCESSORIES											
A. RIGID GALVANIZED AND INTERMEDIATE METAL CONDUIT: ZINC DIE CAST NOT PERMITTED.											
B. ELECTROMETALLIC TUBING: COMPRESSION (WET LOCATIONS) OR DOUBLE SET SCREW TYPE (DRY LOCATIONS ONLY). GALVANIZED RIGID STEEL ELBOWS, 2 IN. OR LARGER.											
C. FLEXIBLE METALLIC CONDUIT: ANGLE WEDGE TYPE WITH INSULATED THROAT. D. BUSHINGS: METALLIC INSULATED TYPE.											
2.04 BOXES		CONSTRUCTION DOCUMENTS		01/26/22							
A. OUTLET BOXES: STAMPED OR WELDED STEEL, 4 IN. SQUARE OR OCTAGON WITH APPROPRIATE MUD RING, EXCEPT AS OTHERWISE REQUIRED BY CONSTRUCTION, DEVICES OR WIRING, AS FOLLOWS: 1. LIGHTING FIXTURES: 1-1/2" DEEP ABOVE CEILING, 2-1/8" DEEP IN WALL. 2. IN WALL FOR RECEPTACLES, SWITCHES, TELEDATA DEVICES: 1-1/2" DEEP. 3. IN WALL FOR WALL-BOX DIMMERS AND GFCI RECEPTACLES: 2-1/8" DEEP. 4. WITH RAISED COVERS AND FIXTURE STUDS WHERE REQUIRED. 5. OUTLET BOXES: 1-1/2" DEEP IN WALL TYPE NOT PERMITTED. 6. WITHOUT FIXTURE OR DEVICE: BLANK COVER. 7. OFFSET BACK-TO-BACK OUTLETS: MINIMUM 6 IN. SEPARATION. COVER BACK BOXES WITH EITHER FIRE OR SOUND PUTTY PAD.											
B. BOXES FOR WET/DAMP LOCATIONS: WEATHERPROOF (NEMA 3R), CAST METAL.											
C. IN HAZARDOUS LOCATIONS: CAST, COPPER-FREE ALUMINUM.											
D. JUNCTION AND PULL BOXES: GALVANIZED SHEET STEEL, SCREW-ON COVERS, INSULATED											
3.00 CONDUCTORS					CONSTRUCTION DOCUMENTS	01/26/22					
A. CONDUCTORS: ASTM STANDARD SOLID; STRANDED FOR #8 AWG AND LARGER. 1. TYPE: COPPER, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL NOT SUBSTITUTE ALUMINUM FOR ANY BRANCH CIRCUITS. CONTRACTOR MAY SUBSTITUTE ALUMINUM FOR FEEDERS SIZE #10 AWG OR LARGER ONLY WITH WRITTEN CONSENT OF ENGINEER. 2. SIZE, FOR GENERAL USE (BASED UPON 10A LOAD): A. #12 AWG MINIMUM FOR ALL CIRCUITS 120V OR MORE. B. FOR 20A/1P BRANCH CIRCUITS OVER 70 FEET IN TOTAL LENGTH: #10 AWG THROUGHOUT ENTIRE CIRCUIT. C. FOR 20A/1P 120V BRANCH CIRCUITS OVER 110 FEET IN TOTAL LENGTH: #8 AWG FOR HOMERUN, #10 AWG THROUGHOUT REMAINDER OF CIRCUIT. D. FOR 20A/1P 277V BRANCH CIRCUIT HOMERUNS OVER 160 FEET IN LENGTH: #10 AWG THROUGHOUT ENTIRE CIRCUIT. E. FOR 20A/1P P 277V BRANCH CIRCUITS OVER 260 FEET IN LENGTH: #8 AWG FOR HOMERUN, #10 AWG THROUGHOUT REMAINDER OF CIRCUIT. 3. SIZE, FOR CONTROL AND ALARM: #14 AWG MINIMUM, EXCEPT FOR 120V CIRCUITS OR CIRCUITS OVER 200 FEET IN LENGTH PROVIDE #12 AWG MINIMUM. 4. OTHER VOLTAGES AND PHASES: BRANCH CIRCUIT SIZE ADJUSTED AS REQUIRED TO MAINTAIN VOLTAGE DROP BELOW 3% (FEEDERS BELOW 2%). 5. WHERE BRANCH CIRCUITS OR FEEDERS HAVE BEEN ADJUSTED FOR VOLTAGE DROP, INCREASE RACEWAY SIZES FOR LARGER WIRE AS REQUIRED. EQUIPMENT GROUNDING CONDUCTOR TO BE RESIZED TO CORRESPOND TO THE NORMAL AMPACITY OF THE NEW FEEDER SIZE.											
B. INSULATION: 1. THWN-2/THHN: FEEDERS AND BRANCH CIRCUITS EXCEPT AS NOTED. 2. SFT-2: BRANCH CIRCUITS LOCATED IN WIRING CHANNELS OF CONTINUOUS FLOURESCENT FIXTURES OR WHERE AMBIENT TEMPERATURES EXCEED 90° C. 3. TYPE NM (ROMEX) CABLE NOT ALLOWED. 4. COLOR CODING: CONDUCTORS SHALL BE COLOR CODED TO DIFFERENTIATE THE PHASES. THE SAME COLOR CODE BEING ASSIGNED TO THE SAME PHASE THROUGHOUT THE PROJECT. 5. RATING: CONDUCTORS FOR CIRCUITS RATED 30A OR LESS HAVE BEEN SIZED BASED UPON 60° C TEMPERATURE RATING (NEC TABLE 310.15 (B)(16)). CONDUCTORS FOR CIRCUITS RATED OVER 30A HAVE BEEN SIZED BASED UPON 75° C TEMPERATURE RATING. 90° C CONDUCTOR TEMP RATING IS USED ONLY FOR CALCULATING DERATING WHERE ALLOWED BY NEC. C. METAL CLAD (MC) CABLE: FOR BRANCH CIRCUITS IN DRY LOCATIONS, WALLS, HUNG CEILINGS, AND FURRED SPACES TO BRANCH DISTRIBUTION BOX ONLY. NOT ALLOWED FOR HOMERUNS. D. TAGS: PROVIDE TAGS IN ACCESSIBLE LOCATIONS FOR ALL FEEDERS, MADE OF FLAMEPROOF LINEN OR FIBER, INDICATING FEEDER SIZE, PHASE, AND POINTS OF ORIGIN AND TERMINATIONS. E. TERMINATIONS: SPLICES AND TAPS UNDER 600V: 1. 1/2" OR SMALLER: COPPER AND ALUMINUM: 1/2" OR SMALLER, WITH COMPRESSION-TYPE OF TWIST-ON SPRING-LOADED CONNECTORS AND NYLON-INSULATED COVERING. 2. COPPER CONDUCTORS #8 AWG AND LARGER: MECHANICAL BOLTED PRESSURE OR HYDRAULIC-COMPRESSION TYPE USING MANUFACTURER'S RECOMMENDED TOOLING. 3. ALUMINUM CONDUCTORS: COMPRESSION TYPE OF SAME METAL AS CONDUCTOR. PROVIDE TO MATCH CABLE, WITH MARKING INDICATING SIZE AND TYPE.											
2.06 DEVICES							CONSTRUCTION DOCUMENTS			01/26/22	
A. LOCAL WALL SWITCHES: HEAVY DUTY, TOGGLE, OR ROCKER QUIET TYPE, 20A, 120/277VAC, COORDINATE WITH ARCHITECT FOR FINISH COLOR. B. DIMMER SWITCHES: SLIDER TYPE, SIZED PER TOTAL CONTROLLED LOAD OR AS INDICATED, COORDINATE WITH ARCHITECT FOR FINISH COLOR. C. RECEPTACLES: 1. DUPLEX CONVENIENCE: NEMA 5-20R UNLESS OTHERWISE NOTED, GFCI-TYPE WHERE INDICATED OR REQUIRED BY CODE, COORDINATE WITH ARCHITECT FOR FINISH COLOR. B. SINGLE: NEMA 5-20R UNLESS NOTED OTHERWISE, COORDINATE WITH ARCHITECT FOR FINISH COLOR. C. SPECIAL USE: NEMA TYPES AND RATINGS AS INDICATED ON DRAWINGS OR AS REQUIRED TO MATCH CORD CAP OF EQUIPMENT. D. DEVICE PLATES: VERIFY TYPE WITH ARCHITECT. E. WEATHERPROOF DEVICE COVERS FOR RECEPTACLES INSTALLED OUTDOORS; PROVIDE NEMA 3R, CAST METAL, LOCKABLE, "IN-USE" TYPE COVERS.											
2.07 LOW VOLTAGE DISTRIBUTION EQUIPMENT			CONSTRUCTION DOCUMENTS								01/26/22
A. DISCONNECT SWITCHES: 1. FUSED OR NONFUSED AS NOTED. 2. VOLTAGE AS REQUIRED FOR APPLICATION. 3. AMPACITY AS REQUIRED FOR APPLICATION (MINIMUM SIZE SHALL BE 125% OF FULL-LOAD AMPS OF EQUIPMENT SERVED, UNLESS OTHERWISE NOTED). 4. HEAVY DUTY, UNLESS OTHERWISE NOTED. 5. HORSEPOWER RATED FOR MOTOR LOADS. 6. TOGGLE TYPE: NON-FUSED, MAXIMUM RATING OF 20A AT 600V OR 30A AT 250V, USE ONLY WHEN FULL-LOAD AMPS OF LOAD DOES NOT EXCEED 80% OF SWITCH RATING. 7. KNIFE-BLADE TYPE: LOAD BREAK; QUICK-MAKE-BREAK, IUL CLASS R UP TO 600V, MAXIMUM RATING 800A. EXCEPT AS NOTED, ARC QUENCHERS, INDIVIDUALLY MOUNTED EXCEPT AS NOTED. B. FUSES: 1. MATCH EXISTING WHERE APPLICABLE. 2. FOR MOTOR AND TRANSFORMER LOADS: CURRENT LIMITING, DUAL ELEMENT, TIME DELAY TYPE, 200,000 IAC, EQUAL TO BUSSMANN FUSETRON FRN OR FR5 OR LO-PEAK LPN OR LPS (UL CLASS R). VOLTAGE RATINGS TO SUIT APPLICATIONS, AMP RATINGS PER PLANS, UNLESS OTHERWISE NOTED. 3. FOR OTHER LOADS: CURRENT LIMITING, FAST ACTING TYPE, 200,000 IAC, EQUAL TO BUSSMANN LIMITRON KTN, KTS, OR KTL (UL CLASS R, UP TO 600A; CLASS L, OVER 600A), UNLESS OTHERWISE NOTED. 4. ALL FUSES SHALL BE OF THE SAME MANUFACTURE. 5. SUPPLY 1 SPARE MATCHING FUSE FOR EACH SET OF 3 INSTALLED.											
C. CIRCUIT BREAKERS: 1. GENERAL REQUIREMENTS: THERMAL-MAGNETIC, QUICK-MAKE-QUICK-BREAK, MANUALLY OPERATED WITH INSULATED TRIP-FREE HANDLE, MULTI-POLE TYPES WITH INTERNAL TRIP BAR, TERMINALS UL LISTED FOR 75° C, SUITABLE FOR COPPER OR ALUMINUM, HACR-RATED TO SUIT APPLICATION, MANUFACTURED TO MATCH EXISTING EQUIPMENT, IF ANY. 2. SHORT CIRCUIT INTERRUPTING CAPACITY: A. SIZE TO MATCH EQUIPMENT IAC RATING INDICATED ON DIAGRAMS AND SCHEDULES. B. SERIES-RATED COMBINATIONS: IAC RATINGS ON DRAWINGS ARE BASED UPON FULLY-RATED EQUIPMENT. SERIES-RATED EQUIPMENT IS ALLOWED ONLY IF SPECIFICALLY IDENTIFIED ON THESE DRAWINGS. 3. GFCI PROTECTION, WHERE THE ELECTRICAL CODE REQUIRES GFCI PROTECTION OF SPECIFIC RECEPTACLES WHICH ARE NOT READILY ACCESSIBLE (SUCH AS BEHIND REFRIGERATORS OR SIMILAR UTILIZATION EQUIPMENT), PROVIDE GFCI-TYPE CIRCUIT BREAKERS IN LIEU OF GFCI RECEPTACLES.											
D. MOTOR CONTROLLER/STARTERS: 1. MANUAL MOTOR CONTROLLERS: 600VAC HEAVY DUTY RATED, SINGLE- OR MULTI-POLE TO SUIT APPLICATION, MOUNTED IN SUITABLE NEMA ENCLOSURE, HORSEPOWER RATED TO SUIT MOTOR TO BE CONTROLLED, H-O-A OR START-STOP OPERATION AS NEEDED FOR APPLICATION. E. BRANCH CIRCUIT PANELBOARDS: 1. GENERAL REQUIREMENTS: A. PROVIDE FACTORY-ASSEMBLED, ENCLOSED PANELBOARDS WITH DOORS, SURFACE-MOUNTED OR RECESSED AS INDICATED. B. PROVIDE FEEDER TERMINAL LUGS FOR BOTH MAIN BREAKERS AND MAIN LUGS, RATED FOR USE WITH COPPER OR ALUMINUM CABLES AS REQUIRED. C. ALL DOOR LOCKS SHALL BE KEYS NOT REQUIRED TO OPEN. D. PROVIDE SEPARATE HINGED AND LOCKABLE DOORS FOR MAIN CONTACTOR COMPARTMENTS AS REQUIRED. E. IAC RATING FOR PANEL BUS SHALL BE AS INDICATED ON DRAWINGS. F. PANEL BUS MAY BE COPPER OR ALUMINUM. G. PROVIDE CONTROL TRANSFORMER FOR THE SHUNT TRIP ELEMENT IN THE PANELBOARD ENCLOSURE AS REQUIRED. H. PROVIDE CIRCUIT DIRECTORY CONSISTING OF METAL FRAME WITH TRANSPARENT PLASTIC COVER, PROVIDE TYPEWRITTEN LIST INDICATING CIRCUIT NUMBERS AND LOADS TO MATCH ACTUAL "AS-BUILT" CONDITIONS (TO CORRESPOND WITH PROJECT RECORD DRAWINGS). 2. AS NOTED BY MANUFACTURERS: SQUARE D, SIEMENS, GENERAL ELECTRIC, AND EATON/CUTLER-HAMMER.											
F. ENCLOSURES: DEAD FRONT. NEMA TYPE 1 (INDOOR) OR NEMA TYPE 3R (OUTDOOR), UNLESS OTHERWISE NOTED. ALL EQUIPMENT SHALL HAVE SUFFICIENT GUTTER SPACE TO ACCOMMODATE THE THE QUANTITY AND SIZE OF CONDUCTORS REQUIRED. CONTRACTOR SHALL PROVIDE LISTED OVERSIZED ENCLOSURES WHERE REQUIRED. G. TEMPERATURE RATING: ALL LOW-VOLTAGE DISTRIBUTION EQUIPMENT SHALL BE RATED FOR 75° C MINIMUM, NO EXCEPTIONS.											
H. SWITCHBOARDS, DISTRIBUTION BOARDS, PANELBOARDS, AND TRANSFORMERS: 1. NAMEPLATES: PROVIDE NAMEPLATES FOR ALL DISCONNECT SWITCHES, ENCLOSED CIRCUIT BREAKERS, PANELS, CABINETS, TRANSFORMER ENCLOSURES, MOTOR CONTROLLERS, DISTRIBUTION BOARDS, AND SWITCHBOARDS. NAMEPLATES SHALL BE FASTENED WITH EPOXY CEMENT, ENGRAVED BLACK BACKGROUND WITH 3/4" WHITE LETTERING, INSCRIPTION INDICATING EQUIPMENT AND VOLTAGE. 2.08 LUMINAIRES A. PROVIDE LUMINAIRES, COMPONENTS, AND LAMPS AS SPECIFIED IN THE DRAWINGS. C. LIGHTING CONTROL SYSTEM: 1. GENERAL: PROVIDE LIGHTING CONTROL SYSTEM COMPONENTS AS SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL COMPONENTS FOR A COMPLETE AND OPERABLE SYSTEM PER MANUFACTURER'S REQUIREMENTS, WHETHER ALL COMPONENTS ARE SPECIFIED IN THE DRAWINGS OR NOT. COORDINATE ALL COMMISSIONING REQUIREMENTS WITH LIGHTING DESIGNER AND/OR ENGINEER AS REQUIRED. 2. COMPATIBILITY WITH LED DRIVERS: LIGHTING DIMMING CONTROLS SHALL BE COMPATIBLE WITH THE LED LUMINAIRES AND/OR LAMPS SPECIFIC IN THESE DRAWINGS. CONTRACTOR SHALL VERIFY COMPATIBILITY WITH LED AND DIMMER MANUFACTURERS SUCH THAT LED LUMINAIRES AND LAMPS DIM TO 20% OR LESS WITHOUT FICKERING. D. LAMPS: PROVIDE AS SPECIFIED IN THE DRAWINGS AND TO SUIT APPLICATION.											
PART III - EXECUTION		CONSTRUCTION DOCUMENTS			01/26/22						
3.01 INSTALLATION											
A. GENERAL REQUIREMENTS: 1. DO NOT SCALE ELECTRICAL DRAWINGS. VERIFY EXACT LOCATIONS OF ALL FIXTURES, DEVICES, BOXES, AND RACEWAYS, AND OTHER EQUIPMENT WITH THE DRAWINGS OF ARCHITECTS, INTERIOR DESIGNERS, AND ALL OTHER CONSULTANTS. EACH DEVICE AND FIXTURE HEIGHT SHALL BE VERIFIED WITH OTHERS' DIMENSIONED DRAWINGS (INCLUDING MILLWORK SHOP DRAWINGS) TO ENSURE PROPER HEIGHT AND LOCATION. CONTRACTOR SHALL VERIFY MOTOR EXCEPT AS NOTED. ALL WORK INDICATED IN A MANUAL OR TRACED EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ROUGH-IN. 2. THE CONTRACT DRAWINGS INDICATE THE GENERAL ARRANGEMENTS FOR THE ELECTRICAL SYSTEMS. PRIOR TO INSTALLATION, CONTRACTOR SHALL REVIEW THE COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR CONFLICTS WITH OTHER TRADES. DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL OBSTRUCTIONS, OFFSETS, MECHANICAL DUCT OR PIPING CONFLICTS, OR STRUCTURAL CONDITIONS THAT MAY AFFECT THE INSTALLATION. DUE TO THESE OR OTHER LEGITIMATE REASONS, THE CONTRACTOR MAY BE REQUIRED TO MAKE CHANGES TO THE DRAWINGS. ANY CHANGES FROM THAT SHOWN, SUCH CHANGES SHALL BE PRESENTED FOR REVIEW AND APPROVAL FROM THE PROJECT MANAGER PRIOR TO PROCEEDING. UPON APPROVAL, THE WORK SHALL BE PERFORMED AND THE RECORD DRAWINGS PREPARED TO ACCURATELY REFLECT THE WORK AS ACTUALLY INSTALLED. 3. IN ALL CASES, MANUFACTURER'S DRAWINGS, DETAILS, AND/OR INSTRUCTIONS SHALL BE FOLLOWED FOR ALL EQUIPMENT AND DEVICES INSTALLED. IN CASES OF CONFLICT WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS SHALL TAKE PRECEDENCE. 4. THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP OPENINGS DURING CONSTRUCTION TO PREVENT INFILTRATION OF DIRT AND OTHER FOREIGN OBJECTS UNTIL FINAL CONDITIONS HAVE BEEN MADE. 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ANCHORS, SUPPORTS, AND CONNECTIONS OF ELECTRICAL WORK TO THE BUILDING STRUCTURE AS REQUIRED BY BUILDING CODES AND IN COMPLIANCE WITH THE LISTING OF THE ANCHORS AND SUPPORTS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INSTALLATION OF ALL ANCHORS AND SUPPORTS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INSTALLATION OF ALL ANCHORS AND SUPPORTS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INSTALLATION OF ALL ANCHORS AND SUPPORTS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INSTALLATION OF ALL ANCHORS AND SUPPORTS. 6. SHOP FABRICATED AND FIELD FABRICATED MATERIALS AND EQUIPMENT, ALL SUPPORTS, EQUIPMENT, AND CONNECTIONS SHALL BE DESIGNED TO CONFORM TO REQUIREMENTS OF THE GOVERNING CODES AND AUTHORITY HAVING JURISDICTION. 7. ALL EQUIPMENT SHALL BE SECURELY FASTENED TO BUILDING STRUCTURE WITH APPROVED SUPPORTS. ALL WORK SHALL BE PROPERLY SUPPORTED FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER INDEPENDENT OF THE CEILING SUSPENSION SYSTEM. CONSIDERATION DOES NOT PERMIT DIRECT FASTENING OF SUPPORTS. FURNISH ADDITIONAL FRAMING AS REQUIRED. 7. FIELD-VIRTY FEEDER CONDUCTOR LENGTHS AND TRANSFORMER PARAMETERS (INCLUDING UTILITY TRANSFORMERS) VERSUS THE VALUES LISTED IN THESE DOCUMENTS SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD-VIRTY CONDITION IS DIFFERENT THAN THOSE DEPICED IN THESE DRAWINGS, NOTIFY ENGINEER IMMEDIATELY FOR RE-CALCULATION OF AVAILABLE FAULT CURRENTS. B. RACEWAYS, WIRE, AND CABLES: 1. ROUTING OF RACEWAY SYSTEMS AS SHOWN IS DIAGRAMMATIC. ACTUAL LOCATION AND ROUTING OF ALL RACEWAYS SHALL BE DETERMINED BY CONTRACTOR TO SUIT FIELD CONDITIONS. 2. RACEWAYS SHALL BE INSTALLED CONCEALED, EXCEPT IN AREAS OUT OF PUBLIC VIEW, EQUIPMENT ROOMS, AND OTHER SIMILAR AREAS, OR WHERE CONDITIONS RENDER CONCEALMENT IMPRACTICAL. WHERE EXPOSED, INSTALL PARALLEL WITH OR AT RIGHT ANGLES TO WALLS, WHERE INSTALLED IN MASONRY, RUN VERTICALLY ONLY. 3. RIGID STEEL AND INTERMEDIATE METALLIC CONDUIT SHALL BE PERMITTED FOR USE WITH FEEDERS AND BRANCH CIRCUITS. IN EXPOSED AREAS WHERE SUBJECT TO PHYSICAL DAMAGE, USE ONLY RIGID GALVANIZED STEEL CONDUIT. RIGID AND INTERMEDIATE STEEL CONDUIT, USE THREADED RIGID STEEL CONDUIT FITTINGS UNLESS OTHERWISE INDICATED. COMPLY WITH NEMA FB 2-1. 4. EMT SHALL BE PERMITTED FOR USE WITH FEEDERS AND BRANCH CIRCUITS, AND MAY BE INSTALLED IN WET LOCATIONS (ABOVE GRADE), DRY LOCATIONS, WALLS, HUNG CEILINGS, AND FURRED SPACES, FOR SHORT CONNECTIONS WHERE RIGID CONDUIT IS NOT AVAILABLE. FROM OUTLET BOX TO A RECESSED LIGHTING FIXTURE (MAXIMUM 6 FT. LENGTH). 5. FLEXIBLE STEEL CONDUIT: USE FOR BRANCH CIRCUITS ONLY. A. PERMITTED USES: DRY LOCATIONS (EXCEPT AS NOTED), IN WALLS, HUNG CEILINGS, AND FURRED SPACES, FOR SHORT CONNECTIONS WHERE RIGID CONDUIT IS NOT AVAILABLE. FROM OUTLET BOX TO A RECESSED LIGHTING FIXTURE (MAXIMUM 6 FT. LENGTH). 6. REQUIRED USES: FOR FINAL CONNECTION TO MOTOR TERMINAL BOX, TRANSFORMERS AND OTHER VIBRATING EQUIPMENT (WITH POLYVINYL SHEATHING WHEN INSTALLED IN WET LOCATIONS) FOR EXPANSION JOINT CONNECTIONS (CROSS AT RIGHT ANGLES) AND ANCHOR ENDS, MINIMUM LENGTH 18" WITH SLACK). 6. WHERE ALLOWED BY CODE, MC CABLE MAY BE INSTALLED, WHERE MULTIPLE CABLES ARE ROUTED ADJACENT TO EACH OTHER (BUNDLED), A MINIMUM SEPARATION OF ONE (1) INCH (25.4 MM) DIAMETER (LARGEST) SHALL BE MAINTAINED THROUGHOUT THE ENTIRE RUN, OTHERWISE CONTRACTOR SHALL BE RESPONSIBLE FOR DERATING CABLES AS REQUIRED BY CODE. PLASTIC CABLE TIES SHALL NOT BE USED AS MEANS OF SUPPORT. 7. SUPPORTS: USE CEILING TRAPEZE, STRAP HANGERS OR WALL BRACKETS (MAXIMUM LOADING 15% OF RATING). USE U-BOLTS AT EACH FLOOR LEVEL. FOR RACEWAYS CONNECTED TO ACCEPTABLE SUPPORTS, FOR GROUPED LINES AND SERVICES, USE TRAPEZE HANGERS OF BOLTED ANGLES OR CHANNELS. SECURE RACEWAYS TO SUPPORTS WITH NINE (9) STRAP HANGERS OR BOLTS, SPACED MINIMUM 10 FEET ON CENTER. FOR RACEWAYS AND AS REQUIRED FOR NONMETALLIC RACEWAY, OR PER CODE, WHERE BUILDING CONSTRUCTION IS INADEQUATE PROVIDE ADDITIONAL FRAMING. 8. MAINTAIN GROUNDING CONTINUITY OF INTERRUPTED METALLIC RACEWAYS WITH 10 AWG COPPER OR ALUMINUM CONDUCTOR, AND IN FLEXIBLE CONDUIT FOR FEEDERS AND MOTOR TERMINAL CONNECTIONS. 9. REAM ENDS OF METALLIC CONDUITS PRIOR RACEWAY SYSTEM ASSEMBLY. 10. NO RACEWAY SHALL CONTAIN MORE THAN NINE (9) CURRENT-CARRYING CONDUCTORS UNLESS OTHERWISE NOTED. WHERE MULTIPLE CONDUCTORS (IN EXCESS OF THREE) ARE INDICATED ON THESE DRAWINGS, THEY HAVE BEEN DERATED AS REQUIRED BY CODE, UP TO THREE HOMERUNS FOR 20A/1P #12 AWG BRANCH CIRCUITS MAY BE COMBINED INTO A SINGLE CONDUIT HOMERUN (PROVIDE MULTI-POLE BREAKERS OR HANDLE-TIES ON SINGLE CIRCUITS). PROVIDE MULTIPLE BRANCH CIRCUITS WITH SHARED CIRCUIT BREAKERS. IN ALL OTHER CASES, CONTRACTOR SHALL NOT COMBINE HOME RUN CONDUITS INTO ONE CONDUIT WITHOUT AUTHORIZATION FROM ENGINEER. 11. WHERE MORE THAN ONE CONDUIT TERMINATES IN A JUNCTION BOX, CONTRACTOR SHALL IDENTIFY EACH CONDUIT AND JUNCTION BOX IN A MANNER ALLOWING IDENTIFICATION AFTER ALL WALL FINISHES HAVE BEEN APPLIED. 12. PROVIDE FISH OR PULL WIRE, GALVANIZED OR NYLON ROPE IN ALL EMPTY RACEWAYS OVER 10 FEET LONG. 13. SLEEVES: FURNISH AND SET ALL SLEEVES FOR PASSAGE OF CONDUIT THROUGH WALLS, ROOF, FLOORS, AND ELSEWHERE AS REQUIRED FOR PROPER PROTECTION OF EACH CONDUIT PASSING THROUGH BUILDING SURFACES. 14. SEPARATE RACEWAYS FOR FEEDERS AND BRANCH CIRCUITS. CONDUCTORS OF 208Y/120 AND 480Y/277 VOLT SYSTEMS, EXCEPT 480 VOLT MOTOR BRANCH CIRCUIT WIRING AND RELATED 120 VOLT CONTROL WIRING. 15. THREADED CONDUIT JOINTS, EXPOSED TO WET, DAMP, CORROSIVE, OR OUTDOOR LOCATIONS, APPLY LISTED CONFORM TO THREADS OF SAME SIZE AND FITTING BEFORE MAKING UP JOINTS. FOLLOW COMPOUND MANUFACTURER'S WRITTEN INSTRUCTIONS. C. OUTLET AND PULL BOXES: 1. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. 2. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS OR GROUT IN WITH MASONRY. 3. VERIFY OUTLET LOCATIONS IN FINISHED SPACES WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISHES. 4. PROVIDE BARRIERS BETWEEN SWITCHES CONNECTED TO DIFFERENT PHASES FOR VOLTAGES EXCEEDING 150 VOLTS TO GROUND. 5. PROVIDE BARRIERS BETWEEN SWITCHES AND JUNCTION AND PULL BOXES IN FINISHED SPACES, ONLY IN ACCESSIBLE LOCATIONS. 6. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILINGS: ACCESSIBLE THROUGH OPENING CREATED BY REMOVAL OF FIXTURE. SECURE TO BLACK IRON CEILING SUPPORT. 7. OUTLET INSTALLATION: WEATHERPROOF EXCEPT AS NOTED, BELOW DAMP, WATERPROOF. 8. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT SIZE AND INSTALLATION OF ALL OUTLET, PULL, AND JUNCTION BOXES IN ACCORDANCE WITH NEC 314.16.											
D. SWITCHBOARDS, DISTRIBUTION BOARDS, PANELBOARDS, AND TRANSFORMERS: 1. NAMEPLATES: PROVIDE NAMEPLATES FOR ALL DISCONNECT SWITCHES, ENCLOSED CIRCUIT BREAKERS, PANELS, CABINETS, TRANSFORMER ENCLOSURES, MOTOR CONTROLLERS, DISTRIBUTION BOARDS, AND SWITCHBOARDS. NAMEPLATES SHALL BE FASTENED WITH EPOXY CEMENT, ENGRAVED BLACK BACKGROUND WITH 3/4" WHITE LETTERING, INSCRIPTION INDICATING EQUIPMENT AND VOLTAGE. 2.08 LUMINAIRES A. PROVIDE LUMINAIRES, COMPONENTS, AND LAMPS AS SPECIFIED IN THE DRAWINGS. C. LIGHTING CONTROL SYSTEM: 1. GENERAL: PROVIDE LIGHTING CONTROL SYSTEM COMPONENTS AS SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL COMPONENTS FOR A COMPLETE AND OPERABLE SYSTEM PER MANUFACTURER'S REQUIREMENTS, WHETHER ALL COMPONENTS ARE SPECIFIED IN THE DRAWINGS OR NOT. COORDINATE ALL COMMISSIONING REQUIREMENTS WITH LIGHTING DESIGNER AND/OR ENGINEER AS REQUIRED. 2. COMPATIBILITY WITH LED DRIVERS: LIGHTING DIMMING CONTROLS SHALL BE COMPATIBLE WITH THE LED LUMINAIRES AND/OR LAMPS SPECIFIC IN THESE DRAWINGS. CONTRACTOR SHALL VERIFY COMPATIBILITY WITH LED AND DIMMER MANUFACTURERS SUCH THAT LED LUMINAIRES AND LAMPS DIM TO 20% OR LESS WITHOUT FICKERING. D. LAMPS: PROVIDE AS SPECIFIED IN THE DRAWINGS AND TO SUIT APPLICATION.											
PART III - EXECUTION							CONSTRUCTION DOCUMENTS	01/26/22			
3.01 INSTALLATION											
A. GENERAL REQUIREMENTS: 1. DO NOT SCALE ELECTRICAL DRAWINGS. VERIFY EXACT LOCATIONS OF ALL FIXTURES, DEVICES, BOXES, AND RACEWAYS, AND OTHER EQUIPMENT WITH THE DRAWINGS OF ARCHITECTS, INTERIOR DESIGNERS, AND ALL OTHER CONSULTANTS. EACH DEVICE AND FIXTURE HEIGHT SHALL BE VERIFIED WITH OTHERS' DIMENSIONED DRAWINGS (INCLUDING MILLWORK SHOP DRAWINGS) TO ENSURE PROPER HEIGHT AND LOCATION. CONTRACTOR SHALL VERIFY MOTOR EXCEPT AS NOTED. ALL WORK INDICATED IN A MANUAL OR TRACED EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ROUGH-IN. 2. THE CONTRACT DRAWINGS INDICATE THE GENERAL ARRANGEMENTS FOR THE ELECTRICAL SYSTEMS. PRIOR TO INSTALLATION, CONTRACTOR SHALL REVIEW THE COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR CONFLICTS WITH OTHER TRADES. DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL OBSTRUCTIONS, OFFSETS, MECHANICAL DUCT OR PIPING CONFLICTS, OR STRUCTURAL CONDITIONS THAT MAY AFFECT THE INSTALLATION. DUE TO THESE OR OTHER LEGITIMATE REASONS, THE CONTRACTOR MAY BE REQUIRED TO MAKE CHANGES TO THE DRAWINGS. ANY CHANGES FROM THAT SHOWN, SUCH CHANGES SHALL BE PRESENTED FOR REVIEW AND APPROVAL FROM THE PROJECT MANAGER PRIOR TO PROCEEDING. UPON APPROVAL, THE WORK SHALL BE PERFORMED AND THE RECORD DRAWINGS PREPARED TO ACCURATELY REFLECT THE WORK AS ACTUALLY INSTALLED. 3. IN ALL CASES, MANUFACTURER'S DRAWINGS, DETAILS, AND/OR INSTRUCTIONS SHALL BE FOLLOWED FOR ALL EQUIPMENT AND DEVICES INSTALLED. IN CASES OF CONFLICT WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS SHALL TAKE PRECEDENCE. 4. THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP OPENINGS DURING CONSTRUCTION TO PREVENT INFILTRATION OF DIRT AND OTHER FOREIGN OBJECTS UNTIL FINAL CONDITIONS HAVE BEEN MADE. 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ANCHORS, SUPPORTS, AND CONNECTIONS OF ELECTRICAL WORK TO THE BUILDING STRUCTURE AS REQUIRED BY BUILDING CODES AND IN COMPLIANCE WITH THE LISTING OF THE ANCHORS AND SUPPORTS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INSTALLATION OF ALL ANCHORS AND SUPPORTS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INSTALLATION OF ALL ANCHORS AND SUPPORTS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT INSTALLATION OF ALL ANCHORS AND SUPPORTS. 6. SHOP FABRICATED AND FIELD FABRICATED MATERIALS AND EQUIPMENT, ALL SUPPORTS, EQUIPMENT, AND CONNECTIONS SHALL BE DESIGNED TO CONFORM TO REQUIREMENTS OF THE GOVERNING CODES AND AUTHORITY HAVING JURISDICTION. 7. ALL EQUIPMENT SHALL BE SECURELY FASTENED TO BUILDING STRUCTURE WITH APPROVED SUPPORTS. ALL WORK SHALL BE PROPERLY SUPPORTED FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER INDEPENDENT OF THE CEILING SUSPENSION SYSTEM. CONSIDERATION DOES NOT PERMIT DIRECT FASTENING OF SUPPORTS. FURNISH ADDITIONAL FRAMING AS REQUIRED. 7. FIELD-VIRTY FEEDER CONDUCTOR LENGTHS AND TRANSFORMER PARAMETERS (INCLUDING UTILITY TRANSFORMERS) VERSUS THE VALUES LISTED IN THESE DOCUMENTS SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD-VIRTY CONDITION IS DIFFERENT THAN THOSE DEPICED IN THESE DRAWINGS, NOTIFY ENGINEER IMMEDIATELY FOR RE-CALCULATION OF AVAILABLE FAULT CURRENTS. B. RACEWAYS, WIRE, AND CABLES: 1. ROUTING OF RACEWAY SYSTEMS AS SHOWN IS DIAGRAMMATIC. ACTUAL LOCATION AND ROUTING OF ALL RACEWAYS SHALL BE DETERMINED BY CONTRACTOR TO SUIT FIELD											



COMcheck Software Version 4.1.5.1

Inspection Checklist

Energy Code: 2019 Denver, CO, Energy Conservation Code - 2018 IECC

Requirements: 50.0% were addressed directly in the COMcheck software
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C401.2, Appendix CA [PR17] ¹	New construction projects include provisions and compliance with Appendix CA : Solar-Ready Zone. See section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C103.2 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.10 [PR162] ¹	Electric vehicle charging station installed per section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Kadampa Meditation Center Report date: 01/28/22
Data filename: G:\Shared drives\Projects\Miscellaneous\2021-198 Kadampa Meditation Center\Electrical\Comcheck\kadampa-Comcheck.cck Page 5 of 10

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [F117] ¹	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.4.1 [F118] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C405.1.1 [F1158] ¹	Lighting for dwelling units and sleeping units: 90% or more of the permanently installed luminaires provided with lamps or light sources in dwelling units and sleeping units are provided by lamps with an efficacy of not less than 65 lm/W.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. See the Interior Lighting fixture schedule for values.
C405.1.2 [F1159] ¹	Lighting for refrigerated applications: Lighting installed in walk-in coolers, walk-in freezers, refrigerated warehouse coolers and refrigerated warehouse freezers comply with the lighting requirements of Section C403.10.1 or C403.10.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. See the Interior Lighting fixture schedule for values.
C405.2.7 [F1160] ¹	1) Parking garage lighting has automatic time-switch shutoff in accordance with Section C405.2.2.1. , 2) Lighting power of each luminaire automatically reduced > 65% after 20 minutes of inactivity, 3) Lighting for eye adaptation separately controlled by a device that automatically reduces lighting power >= 50% from sunset to sunrise, 4) The power to luminaires within 20 ft. of perimeter wall openings or fenestration automatically reduce in response to daylight >= 50%. See section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.3.3, C503.6.2 [F1166] ¹	Lighting Systems for Plant Growth Vegetation Areas. New lighting installed in new canopy areas (areas used for plant growth and plant maintenance) as part of an expansion of operations or change of use within an existing building comply with Section C405.3.3.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.5.1 [F119] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.1.1 [F157] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Kadampa Meditation Center Report date: 01/28/22
Data filename: G:\Shared drives\Projects\Miscellaneous\2021-198 Kadampa Meditation Center\Electrical\Comcheck\kadampa-Comcheck.cck Page 8 of 10

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.2 [EL22] ¹	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1.1 [EL18] ¹	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1.2 [EL19] ¹	Occupancy sensors control function in warehouses: In warehouses, the lighting in aiseways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.1.3 [EL20] ¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.2.2.1, C405.2.2.2.2 [EL21] ¹	Each area not served by occupancy sensors (per C405.2.1) have time switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Areas such as security or emergency areas that need continuous lighting.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Kadampa Meditation Center Report date: 01/28/22
Data filename: G:\Shared drives\Projects\Miscellaneous\2021-198 Kadampa Meditation Center\Electrical\Comcheck\kadampa-Comcheck.cck Page 6 of 10

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.5.1 [F116] ¹	Furnished as-built drawings for electric power systems within 90 days of system acceptance. See section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.3 [F133] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation. See section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

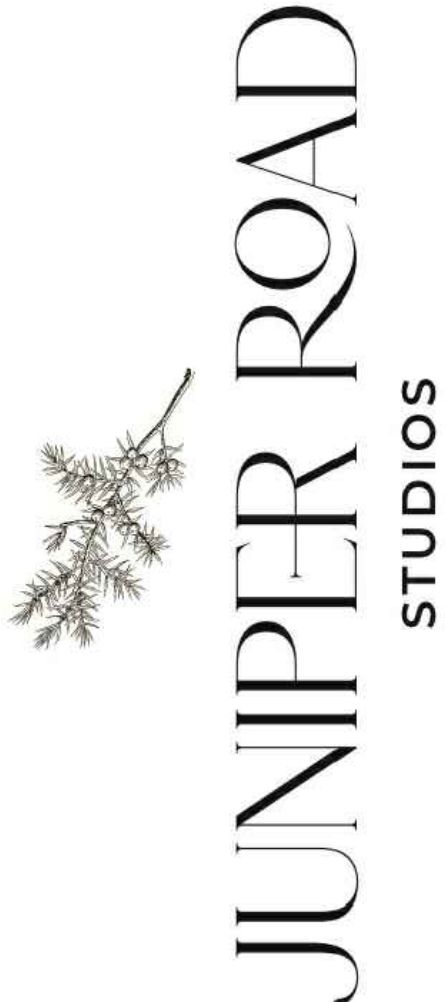
Project Title: Kadampa Meditation Center Report date: 01/28/22
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1, C405.2.3.2 [EL23] ¹	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 [EL26] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 [EL27] ¹	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.6 [EL28] ¹	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.6 [EL26] ¹	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.7 [EL27] ¹	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.8.2.1, C405.8.2.2 [EL28] ¹	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.9 [EL29] ¹	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Kadampa Meditation Center Report date: 01/28/22
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Ramirez, Johnson, & Associates

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Denver, CO 80202
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KADAMPA MEDITATION CENTER

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Denver, CO 80212
Building Renovation

PROFESSIONAL SEAL



DO NOT SCALE DRAWINGS
CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE AND NOTIFY JUNIPER ROAD STUDIOS LLC. OF ANY DIMENSIONAL ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK.

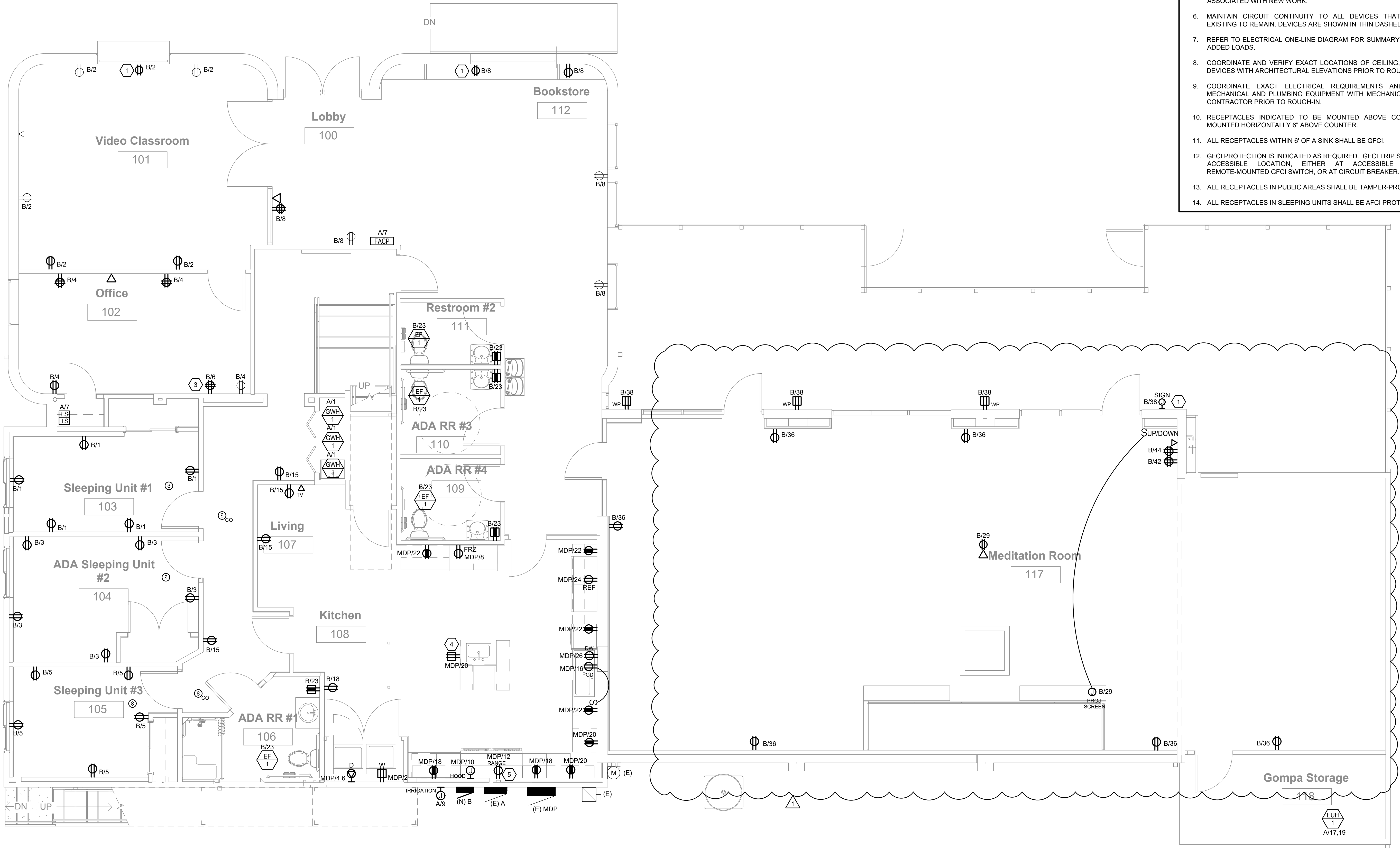
ELECTRICAL COMCHECK

DRAWN BY RJA SHEET E0.3

DATE 01/24/2022 REV.

SCALE @ 24"x36" PROJECT NUMBER 1/4" = 1'-0"

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- ### KEY NOTES
- (THIS SHEET)
1. PROVIDE 120V CONNECTION TO EXTERIOR SIGN. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. PROVIDE DISCONNECTING MEANS AS REQUIRED PER NEC 600.6.
 2. CEILING MOUNTED DISPLAY WINDOW RECEPTACLE PER NEC 210.62.
 3. PROVIDE DEDICATED CIRCUIT FOR TELECOMM HEAD-END EQUIPMENT. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 4. MOUNT HORIZONTALLY, 4" BELOW BOTTOM OF COUNTERTOP.
 5. COORDINATE EXACT REQUIREMENTS OF HOOD FIRE SUPPRESSION SYSTEM WITH INSTALLER AND FIRE ALARM CONTRACTOR PRIOR TO ROUGH-IN. SHUNT TRIP FURNISHED WITH SYSTEM.

- ### GENERAL NOTES
- (THIS SHEET)
1. SEE SHEET E0.0 FOR LEGEND AND ADDITIONAL GENERAL NOTES.
 2. INFORMATION ON THIS SHEET WAS OBTAINED FROM FIELD SURVEY OBSERVATIONS. THE DRAWINGS REPRESENT INFORMATION AS ACCURATE AS POSSIBLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BID. NOTIFY ENGINEER IMMEDIATELY IF ACTUAL FIELD CONDITIONS DIFFER FROM INFORMATION INDICATED ON THE DRAWINGS.
 3. DEVICES AND EQUIPMENT SHOWN IN THIN LIGHT LINEWEIGHT AND/OR LABELED WITH AN (E) ARE EXISTING TO REMAIN. DEVICES AND EQUIPMENT SHOWN IN THICK BOLD LINEWEIGHT ARE NEW.
 4. PROTECT EQUIPMENT THAT IS TO BE RELOCATED FROM DAMAGE. STORE INDOORS IN A SAFE LOCATION UNTIL EQUIPMENT CAN BE RE-INSTALLED.
 5. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE THEMSELVES WITH THE PROJECT AND INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH NEW WORK.
 6. MAINTAIN CIRCUIT CONTINUITY TO ALL DEVICES THAT ARE SHOWN AS EXISTING TO REMAIN. DEVICES ARE SHOWN IN THIN DASHED LINEWEIGHT.
 7. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR SUMMARY OF REMOVED AND ADDED LOADS.
 8. COORDINATE AND VERIFY EXACT LOCATIONS OF CEILING, WALL AND FLOOR DEVICES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
 9. COORDINATE EXACT ELECTRICAL REQUIREMENTS AND LOCATIONS OF MECHANICAL AND PLUMBING EQUIPMENT WITH MECHANICAL AND PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
 10. RECEPTACLES INDICATED TO BE MOUNTED ABOVE COUNTER SHALL BE MOUNTED HORIZONTALLY 6" ABOVE COUNTER.
 11. ALL RECEPTACLES WITHIN 6' OF A SINK SHALL BE GFCI.
 12. GFCI PROTECTION IS INDICATED AS REQUIRED. GFCI TRIP SWITCH SHALL BE IN ACCESSIBLE LOCATION, EITHER AT ACCESSIBLE RECEPTACLE, A REMOTE-MOUNTED GFCI SWITCH, OR AT CIRCUIT BREAKER.
 13. ALL RECEPTACLES IN PUBLIC AREAS SHALL BE TAMPER-PROOF.
 14. ALL RECEPTACLES IN SLEEPING UNITS SHALL BE AFCI PROTECTED.

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

T E/POLE
MTD
X/FMR

NO.	DESCRIPTION	CONSTRUCTION DOCUMENTS	PLAN REVIEW RESPONSE #1	DATE
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**KADAMPA
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Denver, CO 80212

Building Renovation

PROFESSIONAL SEAL

Colorado Licensed
Theresa A. Gray
41315
06/14/2022
PROFESSIONAL ENGINEER

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CONDITIONS AND DIMENSIONS
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OF ANY
DIMENSIONAL ERRORS, OMISSIONS,
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ANY WORK.

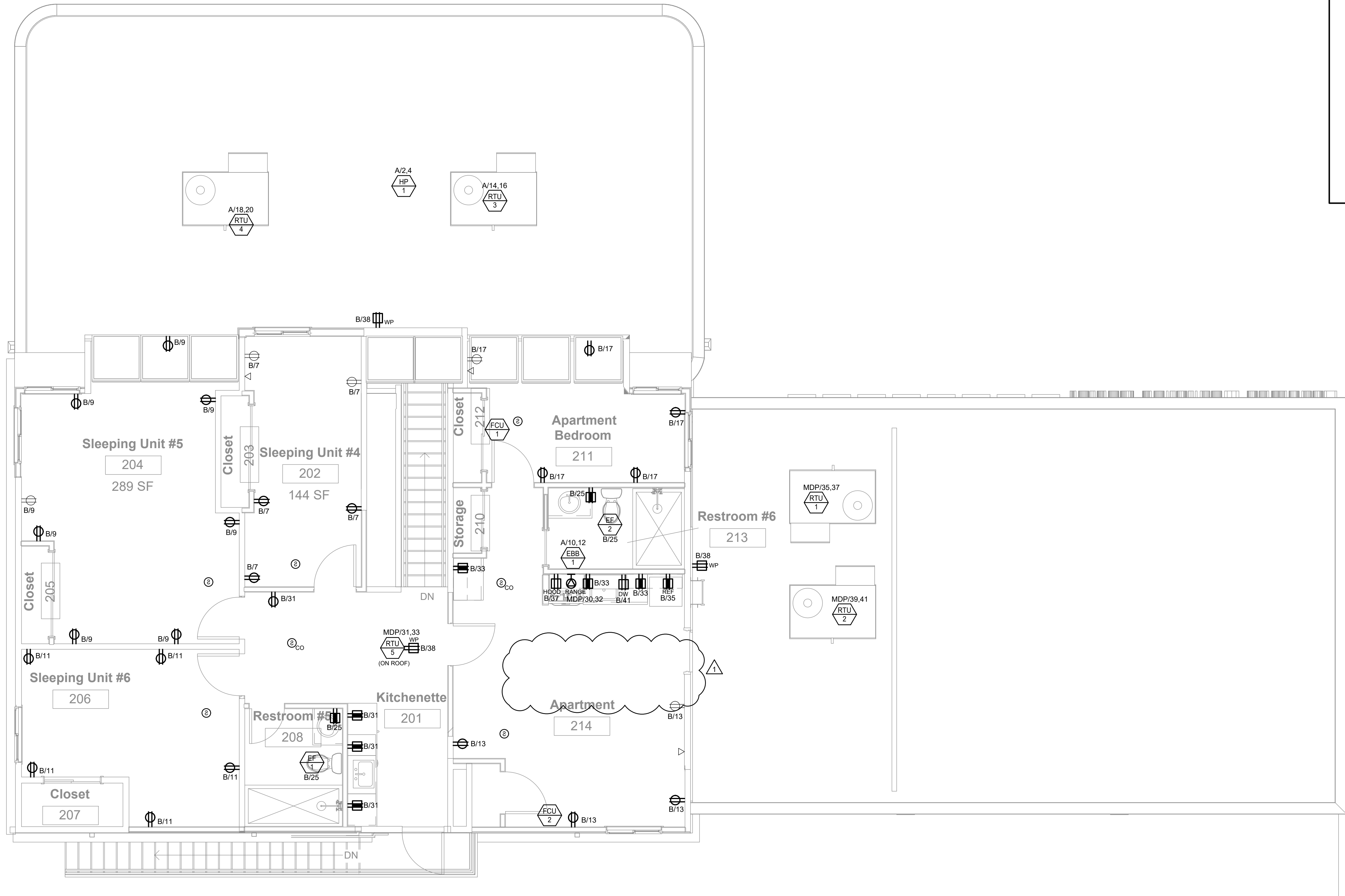
1ST FLOOR POWER PLAN
DRAWN BY **RJA** SHEET **E1.0**

DATE **01/24/2022** REV. **1**

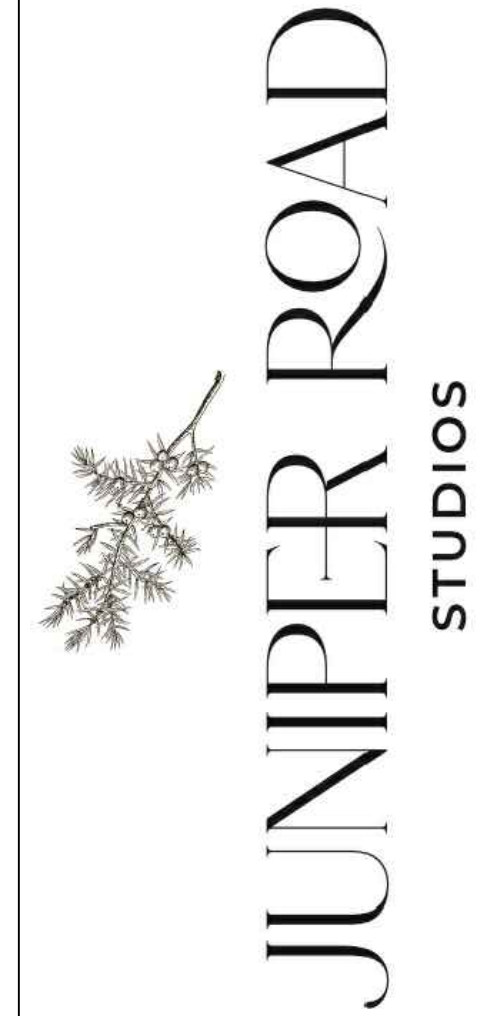
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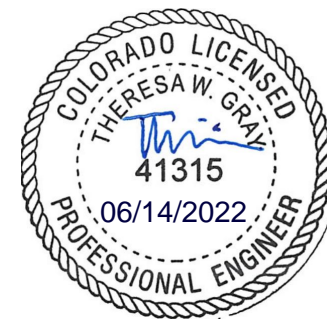
- GENERAL NOTES** (THIS SHEET)
- SEE SHEET E0.0 FOR LEGEND AND ADDITIONAL GENERAL NOTES.
 - INFORMATION ON THIS SHEET WAS OBTAINED FROM FIELD SURVEY OBSERVATIONS. THE DRAWINGS REPRESENT INFORMATION AS ACCURATE AS POSSIBLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BID. NOTIFY ENGINEER IMMEDIATELY IF ACTUAL FIELD CONDITIONS DIFFER FROM INFORMATION INDICATED ON THE DRAWINGS.
 - DEVICES AND EQUIPMENT SHOWN IN THIN LIGHT LINEWEIGHT AND/OR LABELED WITH AN (E) ARE EXISTING TO REMAIN. DEVICES AND EQUIPMENT SHOWN IN THICK BOLD LINEWEIGHT ARE NEW.
 - PROTECT EQUIPMENT THAT IS TO BE RELOCATED FROM DAMAGE. STORE INDOORS IN A SAFE LOCATION UNTIL EQUIPMENT CAN BE RE-INSTALLED.
 - ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE THEMSELVES WITH THE PROJECT AND INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH NEW WORK.
 - MAINTAIN CIRCUIT CONTINUITY TO ALL DEVICES THAT ARE SHOWN AS EXISTING TO REMAIN. DEVICES ARE SHOWN IN THIN DASHED LINEWEIGHT.
 - REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR SUMMARY OF REMOVED AND ADDED LOADS.
 - COORDINATE AND VERIFY EXACT LOCATIONS OF CEILING, WALL AND FLOOR DEVICES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
 - COORDINATE EXACT ELECTRICAL REQUIREMENTS AND LOCATIONS OF MECHANICAL AND PLUMBING EQUIPMENT WITH MECHANICAL AND PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
 - RECEPTACLES INDICATED TO BE MOUNTED ABOVE COUNTER SHALL BE MOUNTED HORIZONTALLY 6" ABOVE COUNTER.
 - ALL RECEPTACLES WITHIN 6' OF A SINK SHALL BE GFCI.
 - GFCI PROTECTION IS INDICATED AS REQUIRED. GFCI TRIP SWITCH SHALL BE IN ACCESSIBLE LOCATION, EITHER AT ACCESSIBLE RECEPTACLE, A REMOTE-MOUNTED GFCI SWITCH, OR AT CIRCUIT BREAKER.
 - ALL RECEPTACLES IN PUBLIC AREAS AND GUEST ROOMS SHALL BE TAMPER-PROOF.
 - ALL RECEPTACLES IN SLEEPING UNITS SHALL BE AFCI PROTECTED.



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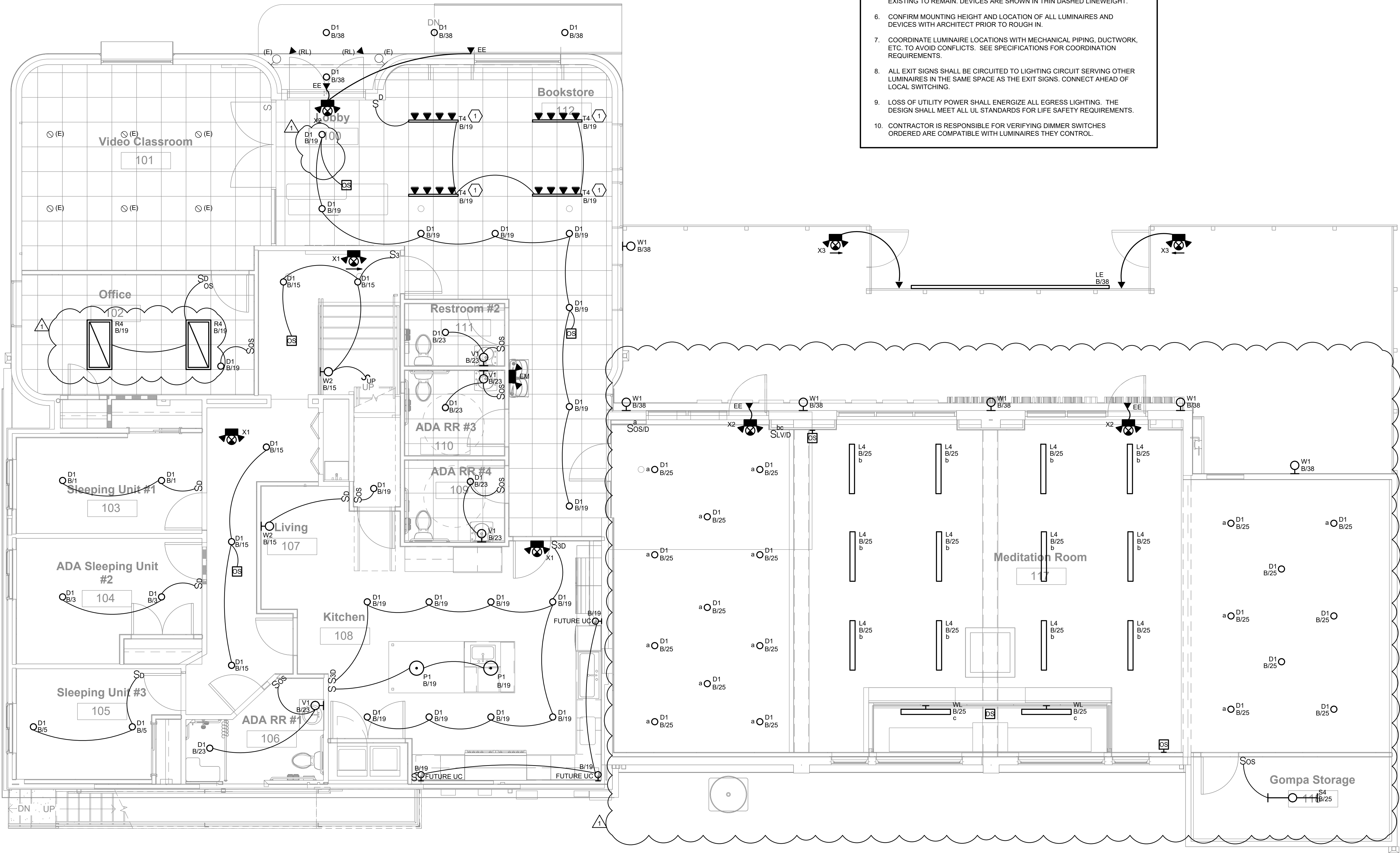
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**2ND FLOOR
POWER PLAN**

DRAWN BY RJA	SHEET E1.1
DATE 01/24/2022	REV. 1
SCALE @ 24"x36" 1/4" = 1'-0"	PROJECT NUMBER 11/30/2021 3:21:22 PM

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

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 - MAINTAIN CIRCUIT CONTINUITY TO ALL DEVICES THAT ARE SHOWN AS EXISTING TO REMAIN. DEVICES ARE SHOWN IN THIN DASHED LINEWEIGHT.
 - CONFIRM MOUNTING HEIGHT AND LOCATION OF ALL LUMINAIRES AND DEVICES WITH ARCHITECT PRIOR TO ROUGH IN.
 - COORDINATE LUMINAIRE LOCATIONS WITH MECHANICAL PIPING, DUCTWORK, ETC. TO AVOID CONFLICTS. SEE SPECIFICATIONS FOR COORDINATION REQUIREMENTS.
 - ALL EXIT SIGNS SHALL BE CIRCUITED TO LIGHTING CIRCUIT SERVING OTHER LUMINAIRES IN THE SAME SPACE AS THE EXIT SIGNS. CONNECT AHEAD OF LOCAL SWITCHING.
 - LOSS OF UTILITY POWER SHALL ENERGIZE ALL EGRESS LIGHTING. THE DESIGN SHALL MEET ALL UL STANDARDS FOR LIFE SAFETY REQUIREMENTS.
 - CONTRACTOR IS RESPONSIBLE FOR VERIFYING DIMMER SWITCHES ORDERED ARE COMPATIBLE WITH LUMINAIRES THEY CONTROL.

- KEY NOTES** (#) (THIS SHEET)
- COORDINATE EXACT LOCATION OF TRACK LIGHTING WITH OWNER'S FINAL BOOKSHELF LAYOUT PRIOR TO ROUGH-IN.

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

DATE	01/26/22
DESCRIPTION	CONSTRUCTION DOCUMENTS
NO.	PLAN REVIEW RESPONSE #1
DATE	06/14/22
DESCRIPTION	CONSTRUCTION DOCUMENTS
NO.	PLAN REVIEW RESPONSE #1

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COLORADO LICENSED
THERESA W. GAY
41315
06/14/2022
PROFESSIONAL ENGINEER

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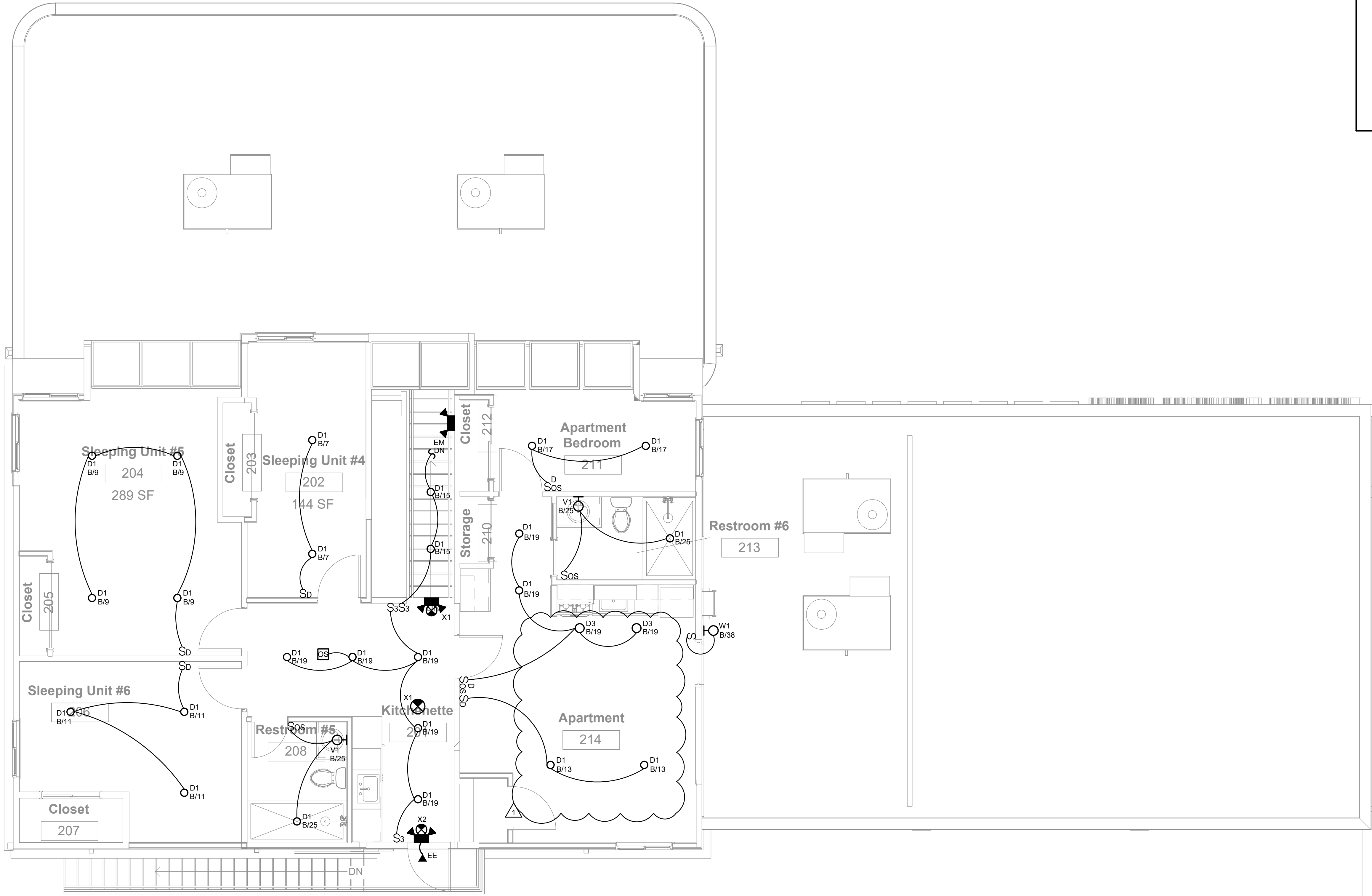
1ST FLOOR LIGHTING PLAN

DRAWN BY	RJA
DATE	01/24/2022
SCALE	@ 24"x36" 1/4" = 1'-0"

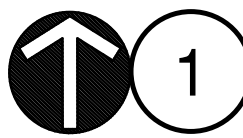
SHEET	E2.0
REV.	1
PROJECT NUMBER	

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 - CONTRACTOR IS RESPONSIBLE FOR VERIFYING DIMMER SWITCHES ORDERED ARE COMPATIBLE WITH LUMINAIRES THEY CONTROL.



SECOND FLOOR LIGHTING PLAN

SCALE: 1/4" = 1'-0"

DATE	01/24/22
DESCRIPTION	CONSTRUCTION DOCUMENTS PLAN REVIEW RESPONSE #1
NO.	1



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2ND FLOOR LIGHTING PLAN

DRAWN BY	RJA	SHEET	E2.1
DATE	01/24/2022	REV.	1
SCALE @ 24"x36"	1/4" = 1'-0"	PROJECT NUMBER	

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