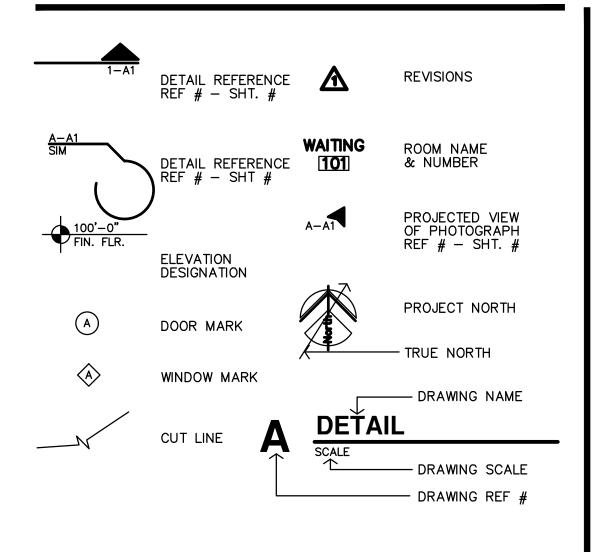
## THE RESERVES at GRAND VIEW HEIGHTS

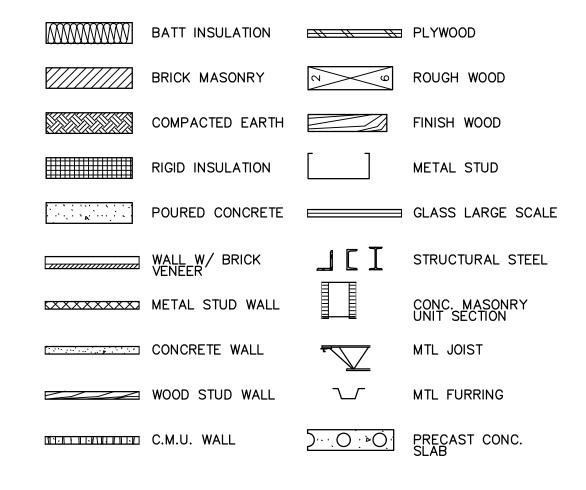
### NEW APARTMENT COMPLEX

LARAMIE, 24-3262 **WYOMING** 

### REFERENCE LEGEND



### MATERIAL LEGEND



# JonesGillamRenz

730 N. Ninth St. Salina, KS 67401 785.827.0386

1881 Main St, Ste 301 Kansas City, MO 64108 jgr@jgrarchitects.com

### CONSULTANTS

Civil Engineer;

SolTerra Engineering, Inc. 1482 Commerce Dr, Unit B Laramie, WY 82070 (307) 223-3204

cfossen@solterraeng.com

### Mechanical & Electrical Engineer;



LST Consulting Engineers, PA 4809 Vue Du Lac Place, Suite 301 Manhattan, KS 66503 (785) 587-8042

mail@LSTengineers.com

### Structural Engineer;

### **McClure**

2001 W. Broadway Columbia, MO 65203 (573) 814-1568 icundiff@mcclurevision.com

### ARREVIATIONS

## AND Color Concrete Colorer
Cir. Clear

### SHEET INDEX

**GENERAL** 

A4.4 DETAILS

A4.5 DETAILS

A5.1 ROOF PLANS

A4.6 ENTRY SECTIONS & DETAILS

A4.9 FIRE PENTRATION DETAILS

A5.2 ROOF & STAIR DETAILS

A4.7 CLUBHOUSE SECTIONS & DETAILS

A4.8 CLUBHOUSE SECTIONS & DETAILS

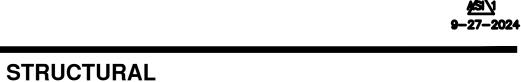
A4.10 MANUFACTURER DETAILS - STONE VENEER

A4.12 MANUFACTURER DETAILS - BOARD & BATTEN SIDING

A4.11 MANUFACTURER DETAILS - LAP SIDING

A6.1 STAIR SECTION & ENLARGED PLANS

CIVIL \*SUBMITTED UNDER SEPARATE PERMIT



#### COVER & SHEET INDEX CFP1 CODE FOOTPRINT CFP2 CODE FOOTPRINT ADA ADA DIAGRAMS FH FAIR HOUSING UFAS1 UNIFORM FED. ACCESSIBILITY STANDARDS UFAS2 UNIFORM FED. ACCESSIBILITY STANDARDS UFAS3 UNIFORM FED. ACCESSIBILITY STANDARDS **ARCHITECTURAL** A1.1 SITE PLAN A1.2 ENLARGED PLANS & DETAILS A1.3 ENLARGED PLAN & DETAILS A1.4 SECTIONS A1.5 SECTIONS L1.1 LANDSCAPING PLAN A2.1 BUILDING A & CLUBHOUSE FLOOR PLANS A2.2 BUILDING B FLOOR PLANS A2.3 2-BEDROOM UNIT PLANS A2.4 3-BEDROOM UNIT PLANS A2.5 ACCESSIBLE/TYPE-B ENLARGED BATHROOM PLANS & SCHEDULES A2.6 STANDARD ENLARGED BATHROOM PLANS A2.7 ACCESSIBLE INTERIOR ELEVATIONS A2.8 STANDARD/TYPE-B INTERIOR ELEVATIONS A2.9 CASEWORK DETAILS A2.10 CLUBHOUSE PLAN & SCHEDULES A2.11 CLUBHOUSE ENLARGED PLANS & DETAILS A3.1 BUILDING A - EXTERIOR ELEVATIONS - BUILDING A A3.2 BUILDING B - EXTERIOR ELEVATIONS, MATERIALS A3.3 BUILDING B — EXTERIOR ELEVATIONS A3.4 ENLARGED ENTRY ELEVATIONS A4.1 TYPICAL WALL SECTIONS A4.2 TYPICAL WALL SECTIONS A4.3 TYPICAL WALL SECTIONS

P1.2 BUILDING B - SECOND/THIRD FLOOR WASTE & VENT P1.3 BUILDING A - UNDER FLOOR/FIRST FLOOR WASTE & VENT P1.4 BUILDING A - SECOND/THIRD FLOOR WASTE & VENT P4.1 APARTMENT UNIT PLUMBING PLANS P5.1 WASTE & VENT ISOMETRIC DIAGRAMS P5.2 DOMESTIC WATER RISER DIAGRAMS P6.1 PLUMBING SCHEDULES & DETAILS E1.0 ELECTRICAL SITE PLAN & DETAILS E4.1 APARTMENT UNIT ELECTRICAL PLANS E6.1 ELECTRICAL SCHEDULES & DIAGRAMS E6.2 ELECTRICAL SCHEDULES & RISER DIAGRAMS ED 3 ELECTRICAL PANEL SCHEDULES E6.4 ELECTRICAL ONE-LINE DIAGRAMS 9-27-2024 E7.2 EXTERIOR LIGHT FIXTURE SCHEDULES AND SPECIFICATIONS

S001 GENERAL NOTES & SPECIFICATIONS

S002 GENERAL NOTES & SPECIFICATIONS

S003 SPECIAL INSPECTIONS

S111 BUILDING A LEVEL 1

S113 BUILDING A ROOF S120 BUILDING B FOUNDATION S121 BUILDING B LEVEL 1

S123 BUILDING B ROOF

S510 FRAMING DETAILS

S511 FRAMING DETAILS S520 ROOF DETAILS

S110 BUILDING A FOUNDATION

S112 BUILDING A LEVEL 2 & 3

S122 BUILDING B LEVEL 2 & 3

S500 TYPICAL WOOD DETAILS

S501 FOUNDATION DETAILS

S530 SHEAR WALL DETAILS

ME1.1 BUILDING B - M/E PLAN

ME1.2 BUILDING A - M/E PLAN

MECHANICAL, PLUMBING, ELECTRICAL

P1.1 BUILDING B - UNDER FLOOR/FIRST FLOOR WASTE & VENT

ME1.3 CLUBHOUSE - HVAC & DOMESTIC WATER PLANS

ME1.4 CLUBHOUSE - LIGHTING & POWER PLANS

M4.1 APARTMENT UNIT MECHANICAL PLANS

M6.1 MECHANICAL SCHEDULES AND DETAILS

S004 SCHEDULES

A7.1 APARTMENTS - REFLECTED CEILING PLANS

O

NOT REQUIRED

FIRE ALARM REQUIREMENTS:

SMOKE ALARM REQUIREMENTS:

**EMERGENCY POWER SOURCE:** 

NOT REQUIRED

SPRINKLER SYSTEM FLOW AND TAMPER SWITCHES MONITORED.

REQUIRED, PROVIDED — MANUAL & AUTOMATIC FIRE ALARM SYSTEM PER NFPA 72

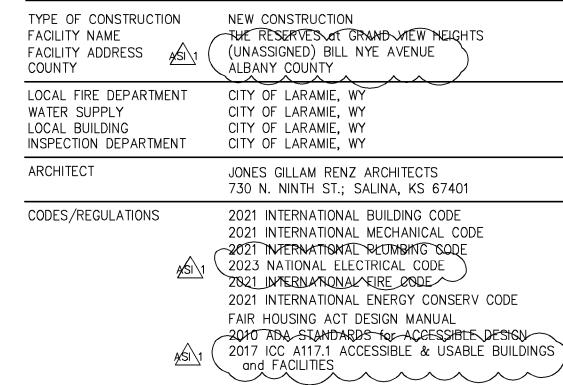
SIGNALING SYSTEM IS AUDIBLE/VISUAL PER NFPA 72 & ADA INSTALLED THROUGHOUT INITIATING DEVICES: PULL STATIONS; SMOKE DETECTION @ SLEEPING & COMMON AREAS,

REQUIRED, PROVIDED - SLEEPING ROOMS, OUTSIDE SLEEPING ROOMS & AT EACH FLOOR

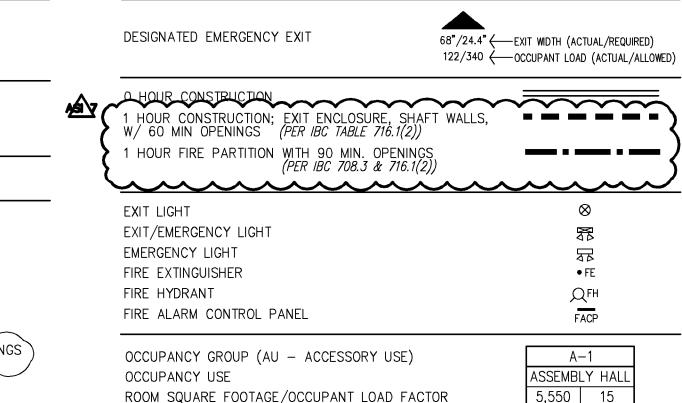
EXIT SIGNS, EXIT ILLUMINATION & EMERGENCY LIGHTING IS BY BATTERY BACK-UP

NOT REQUIRED (TOP FLR <30')

### PROJECT INFORMATION

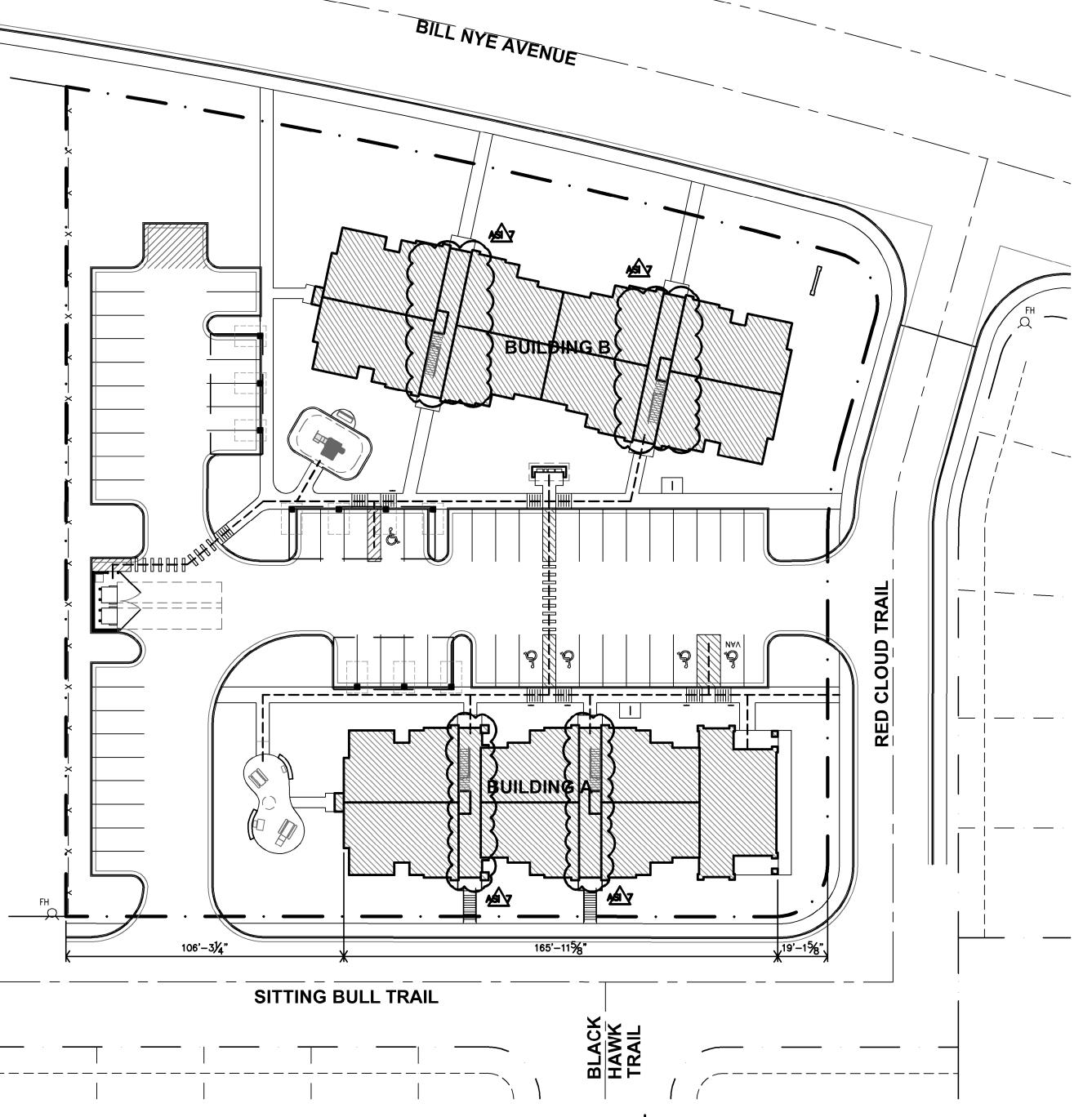


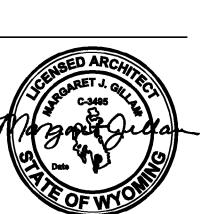
#### **LEGEND**



370 2

OCCUPANT LOAD/REQUIRED NUMBER OF EXITS





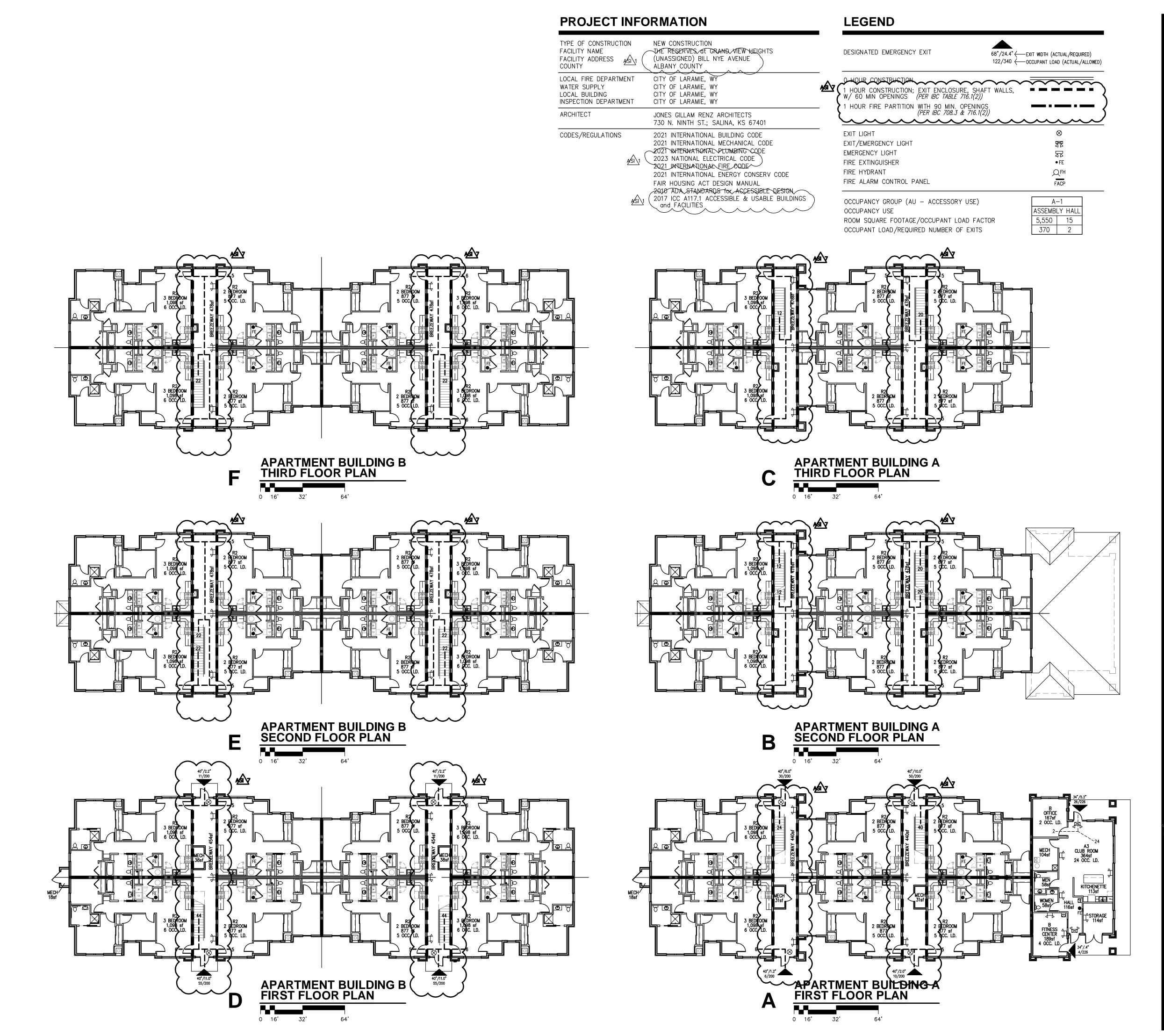
REVISION:
9-27-2024
4-15-2025

DATE: 7-17-2024

JOB: 22-3262

SHEET NO.:

CFP1



onesGillamRen



7-17-2024 22-3262 SHEET NO.:

CFP2

JonesGillamR

WYOMING **HEIGHTS** 

VIEW ENT COMPLEX GRAND NEW APARTM り

**REVISION:** 

DATE: 7-17-2024 22-3262 SHEET NO .:

**ADA** 

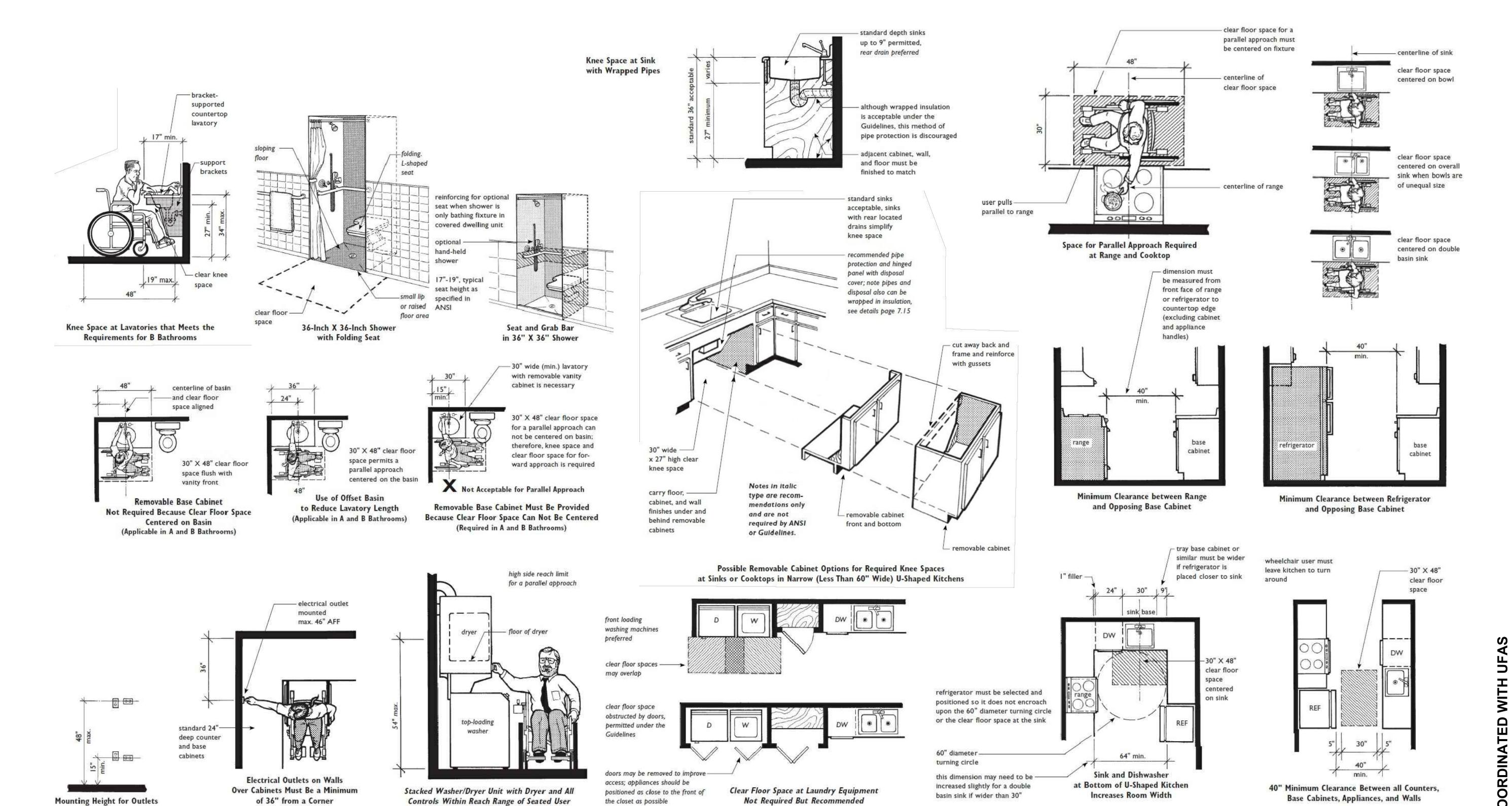
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7-17-2024 JOB: 22-3262 SHEET NO .:

FOR REFERENCE ONLY

FΗ (UFAS)



DATE: 7-17-2024 22-3262 SHEET NO.:

**UFAS** 

Figure 19(c)

Stair Handrails - Extension at Bottom of Run

protect shaded

area from

Note: X is the 12 in minimum handrail extension required at each top riser. Y is the minimum handrail

extension of 12 in plus the width of one tread that is required at each bottom riser.

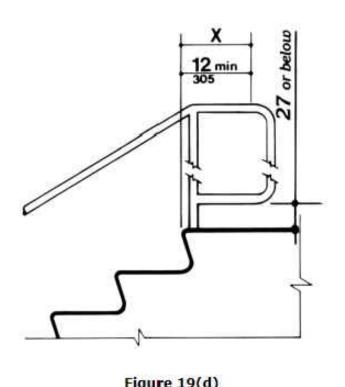
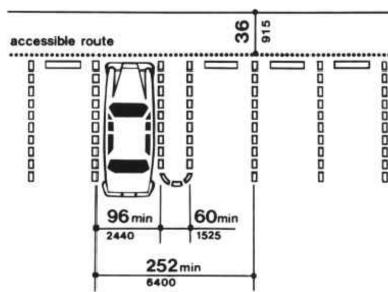


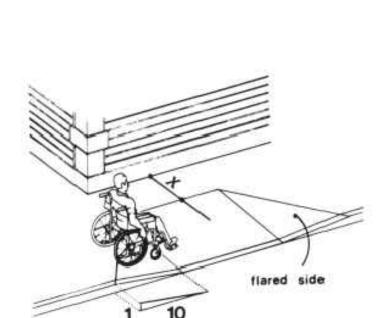
Figure 19(d) Stair Handrails - Extension at Top of Run

Note: X is the 12 in minimum handrail extension required at each top riser. Y is the minimum handrail extension of 12 in plus the width of one tread that is required at each bottom riser.



STANDARD UFAS PARKING SPACES
NO SCALE

### STANDARD UFAS HANDRAILS NO SCALE



4.7.5 SIDES OF CURB RAMPS. If a curb ramp is located where pedestrians must walk across the ramp, or where it is not protected by handrails or guardrails, then it shall have flared sides; the maximum slope of the flare shall be 1:10 (see Fig. 12(a)). Curb ramps with returned curbs may be used where pedestrians would not normally walk across the ramp (see Fig. 12(b)).

Note: If X is less than 48 inches, then the slope of the flared side shall not exceed 1:12.

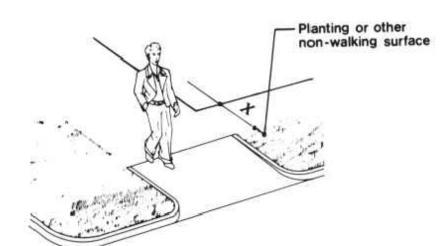
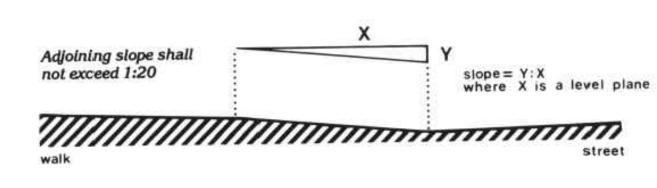
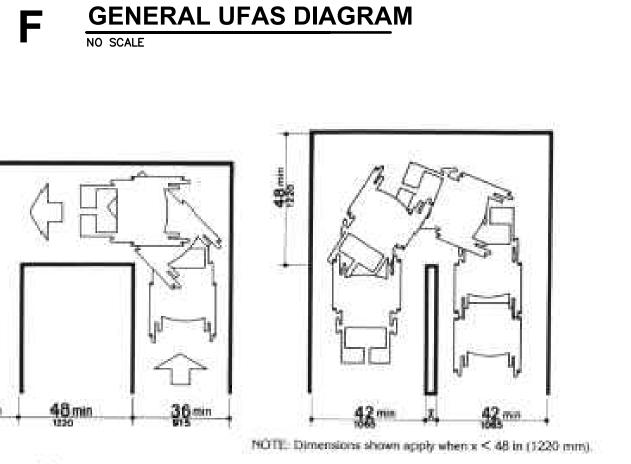


Figure 12(b)

### STANDARD UFAS CURB RAMPS NO SCALE

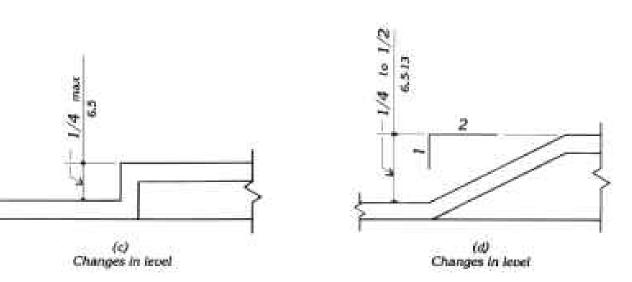


STANDARD UFAS SLOPE
NO SCALE

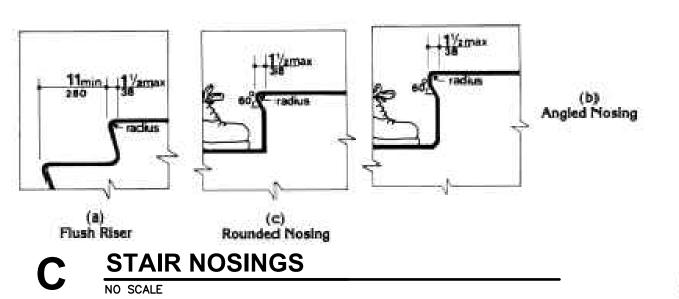


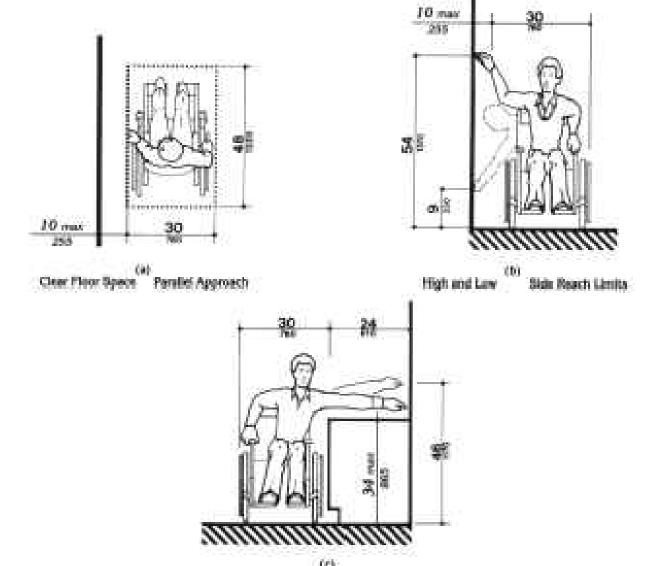
(b) Turns around an Obstruction

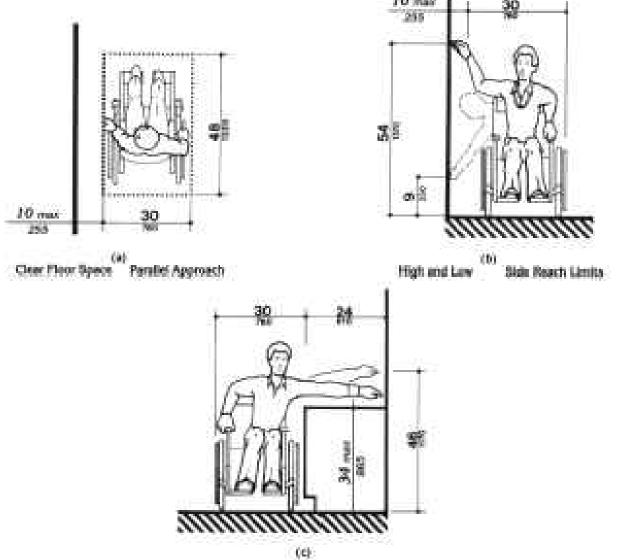
**UFAS WIDTH DIAGRAMS** 

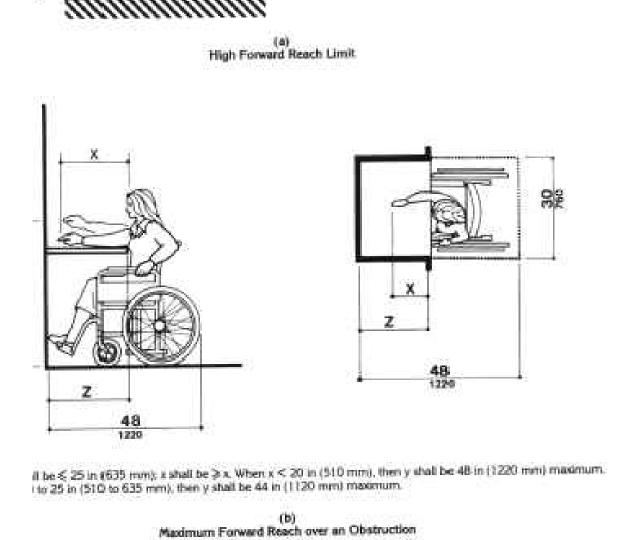


UFAS CHANGE IN LEVEL DIAGRAM
NO SCALE









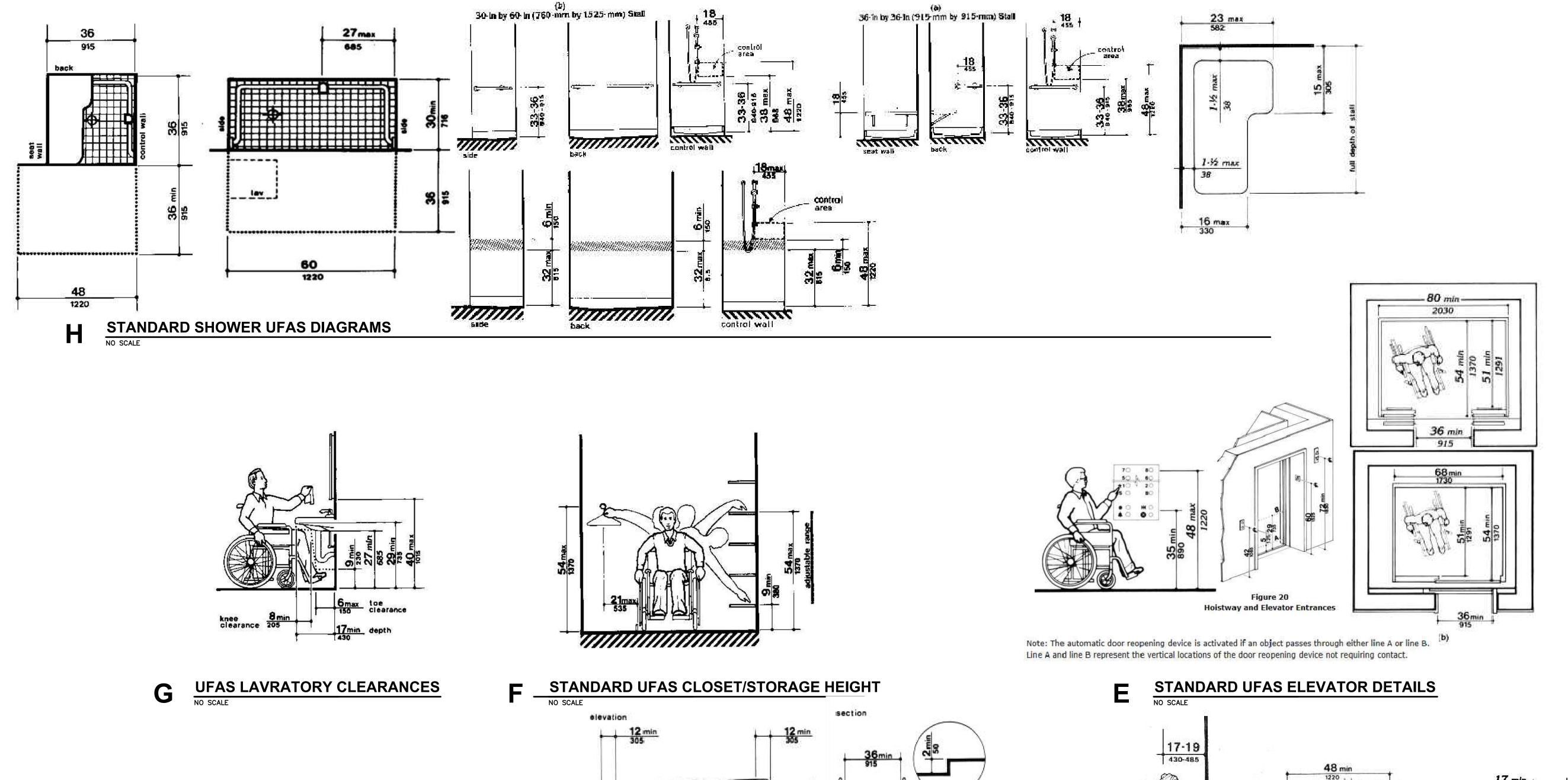
STANDARD UFAS REACH DIAGRAMS
NO SCALE A

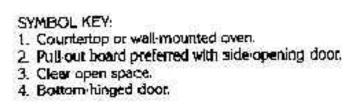
> REFERENCE FULL UNIFORM FEDERAL ACCESSIBILITY STANDARDS FOR ADDITIONAL INFORMATION.

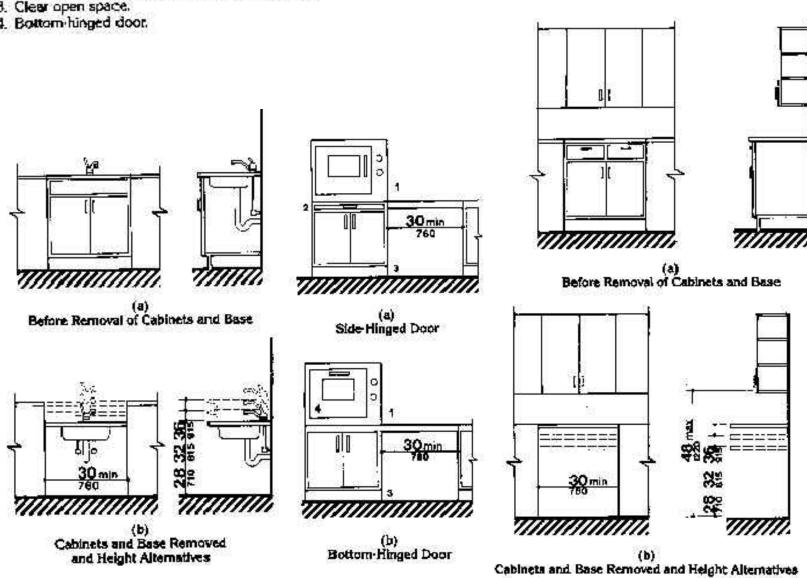
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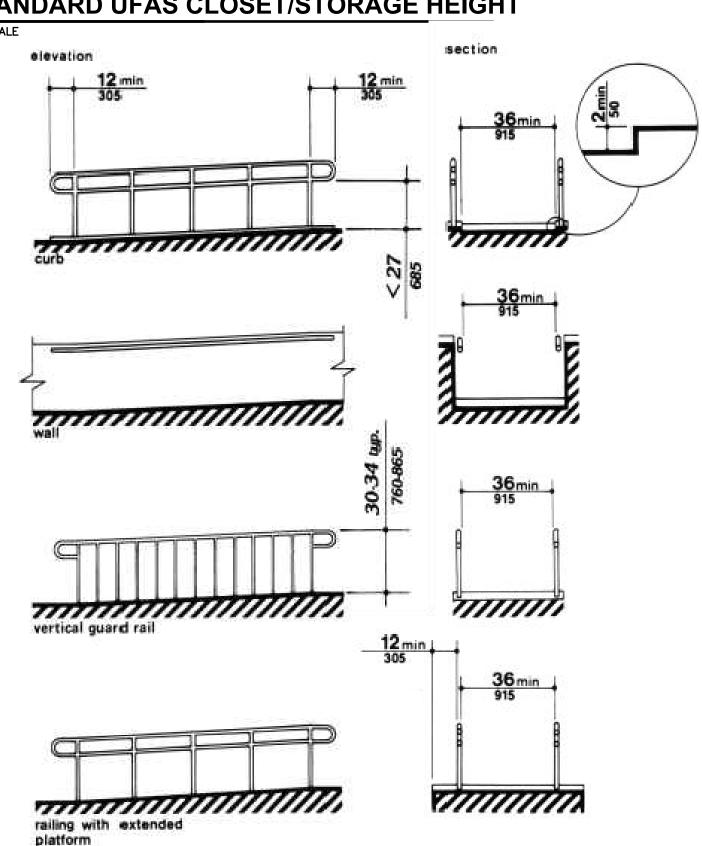
SHEET NO.: **UFAS** 



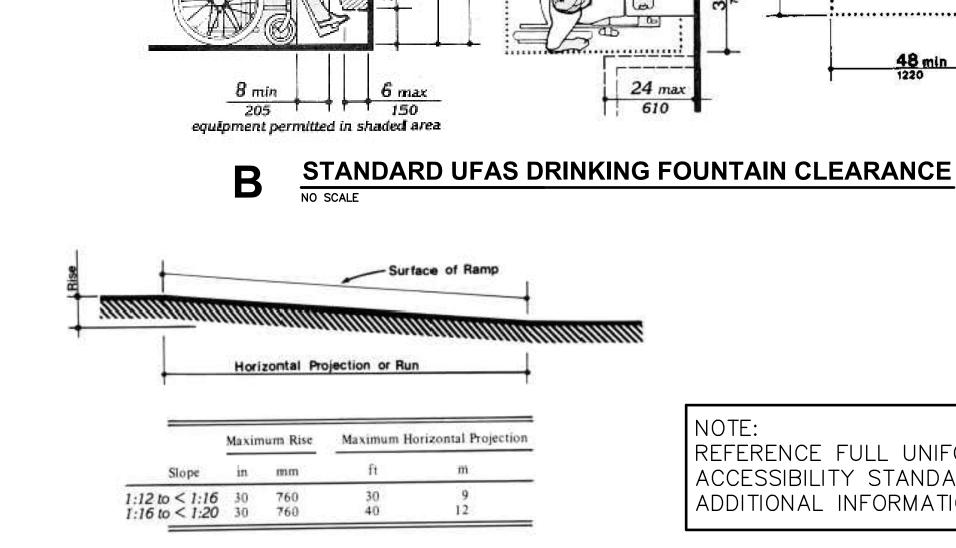


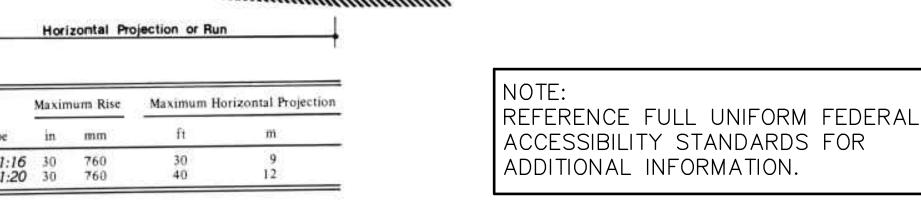


STANDARD UFAS KITCHEN DIAGRAMS



**UFAS EDGE PROTECTION** 





24 max 610

**SLOPE AND RISE** 

FOR REFERENCE ONLY

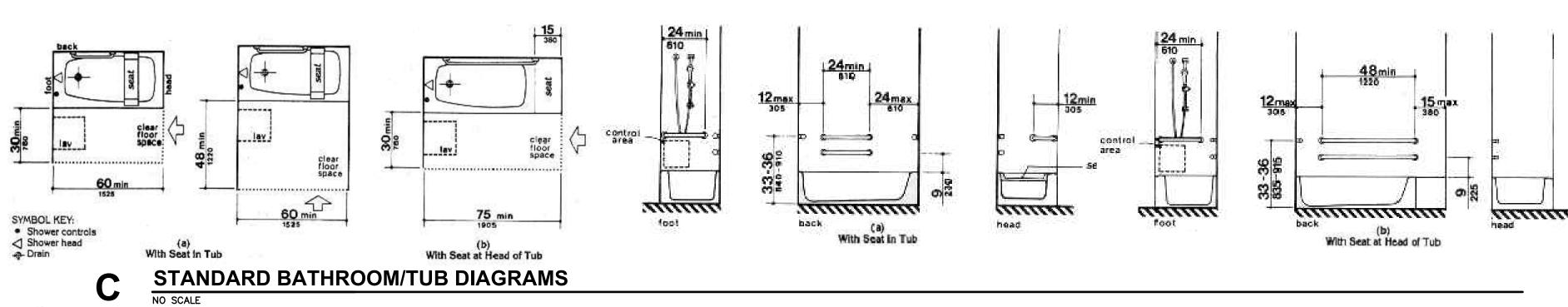
48 min

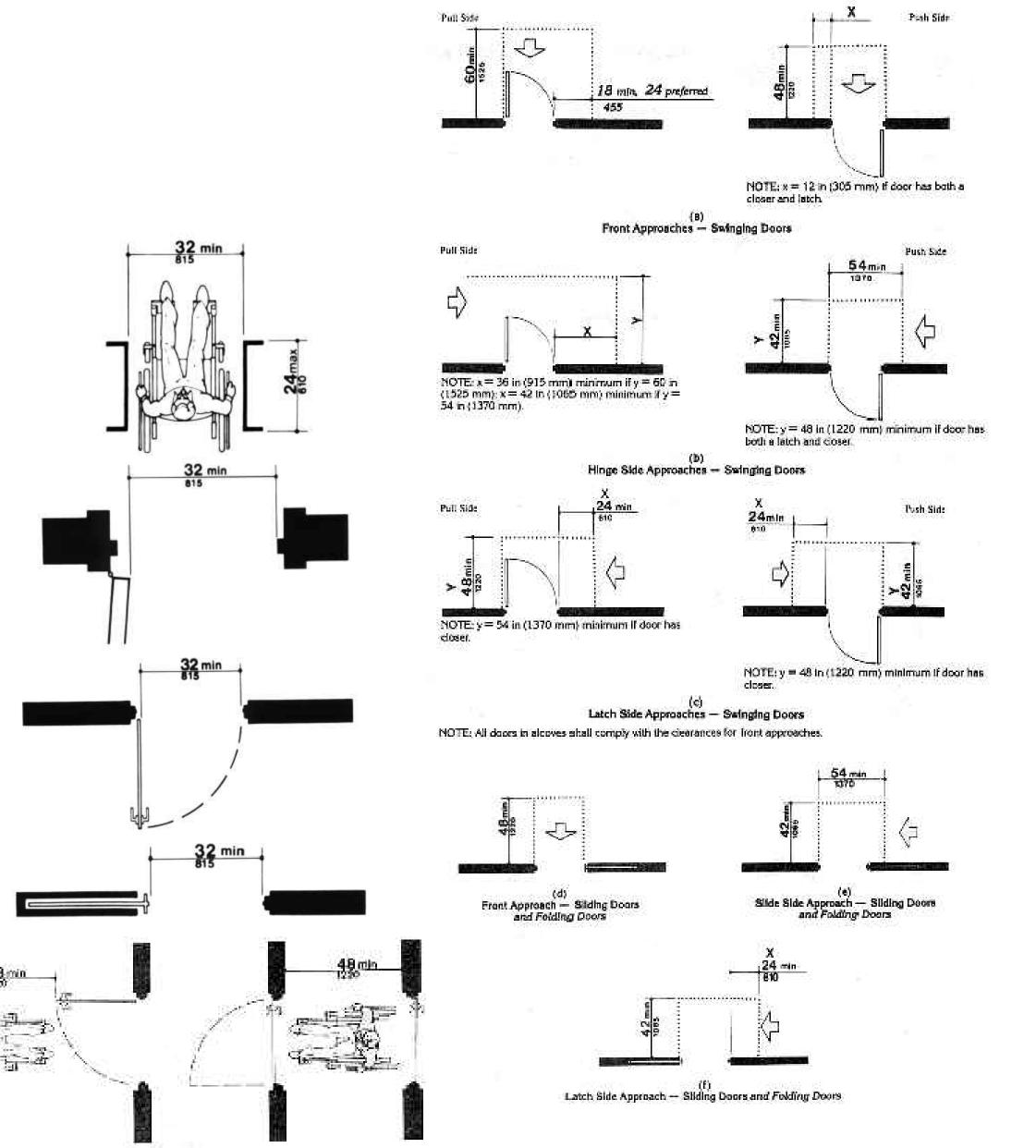
DATE:

SHEET NO.: **UFAS** 

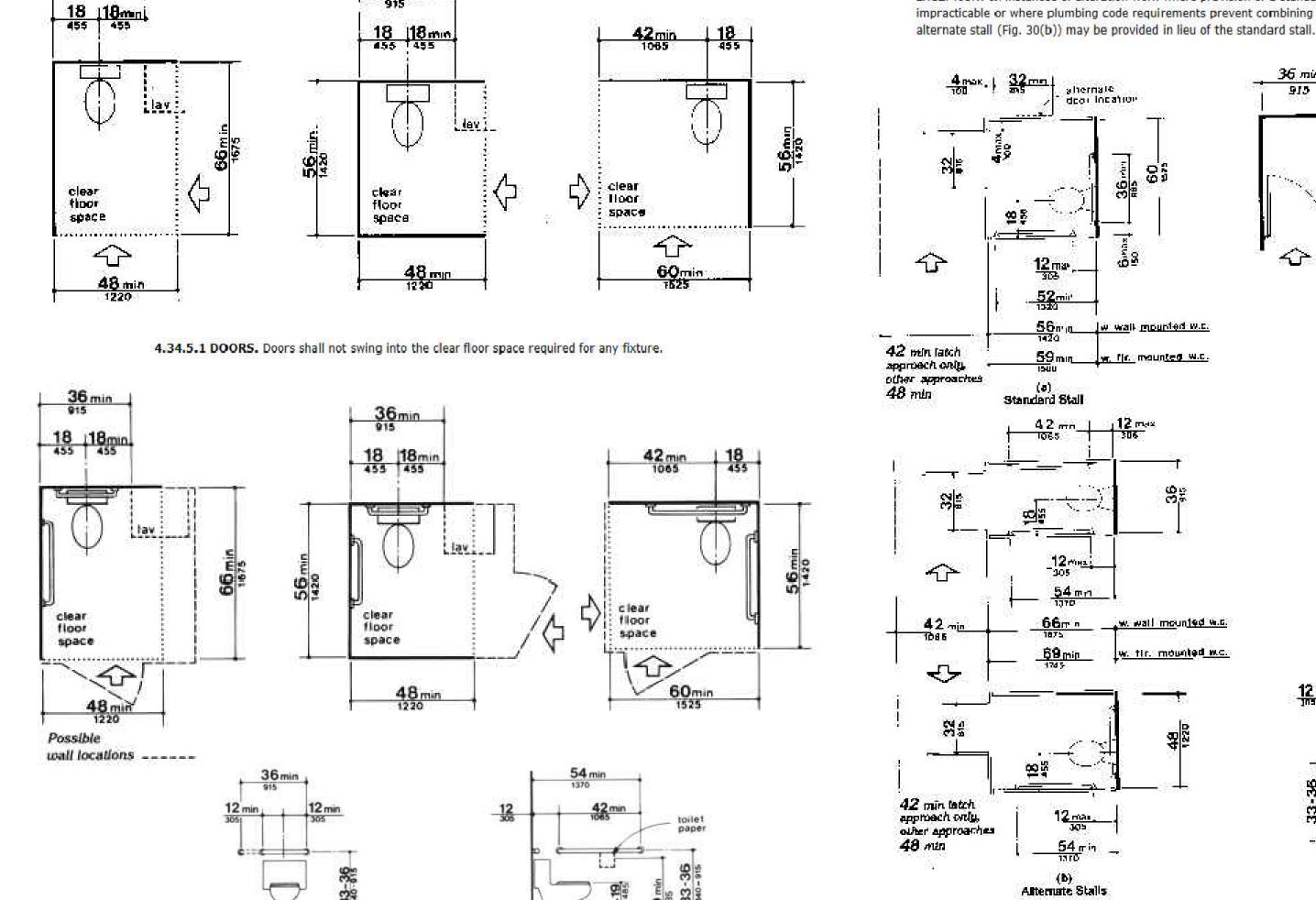
7-17-2024

22-3262





STANDARD UFAS DOOR APRROACH/CLEARANCES
NO SCALE



STANDARD UFAS TOILERT/WATER CLOSET DIAGRAMS
NO SCALE

untitun (a) Back Wall

> REFERENCE FULL UNIFORM FEDERAL ACCESSIBILITY STANDARDS FOR ADDITIONAL INFORMATION.

EXCEPTION: In instances of alteration work where provision of a standard stall (Fig. 30(a)) is structurally

impracticable or where plumbing code requirements prevent combining existing stalls to provide space, an

space

(a-1) Standard Stalt (end of rous)

(c) Rew Wall of Standard Stell

(d) Side Walls

, w. fir, mounted w.c.

FOR REFERENCE ONLY

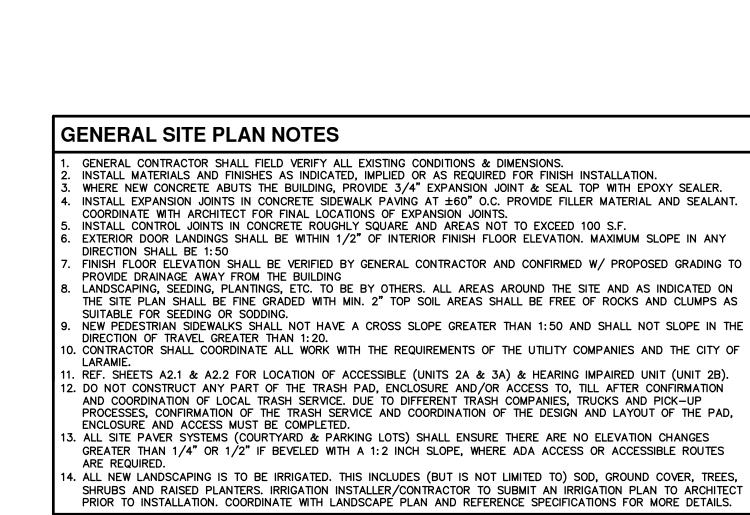


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**REVISION:** 9-10-2024 4-15-2025

7-17-2024 DATE: 22-3262 SHEET NO .:

A1.1



#### SITE PLAN KEY NOTES

A MONUMENT SIGN REF. SHEET A1.3

	$\odot$	MONOMENT SIGN REF. SHEET AT.5	
	В	KNOX BOX COORD. W/ FIRE DEPT. (TYP)	
	0	MECH. CLOSET REF. & COORDINATE W/ M/E DRAWINGS (TYP)	
	<u>a</u>	ACCESSIBLE TRASH ENCLOSURE REF. SHEET A1.3	
	E	DASHED LINE INDICATES ACCESSIBLE PATH	
	F	POLE MOUNTED H.C. PARKING SIGN MOUNT BTM. OF SIGN @ 60"A.F.F. (TYP)	
	(G)	POLE MOUNTED H.C. "VAN" PARKING SIGN MOUNT BTM. OF SIGN @ 60"A.F.F. (TYP)	
	(I	PAINTED STRIPPING @ ACCESSIBLE ROUTE	
	$\langle \odot \rangle$	BIKE RACK — (2 TOTAL) WITH 6'-0"x8'-0" CONCRETE PAD. PLACE RACK PERPENDICULAR TO SIDEWALK, CENTER ON CONC. PAD. REF. SHEET A1.3	
	K	6' TALL WOOD PRIVACY FENCE ALONG FULL LENGTH OF WEST PROPERTY LINE. REF. DETAIL J—A1.2 (NOTE: ALONG NORTH END, FOR A MINIMUM OF 32'—4" IN LENGTH, THE FENCE WILL BE REQUIRED TO BE 4' TALL IN LIEU OF 6' TALL.)	
	1	TOT/LOT / REF. ENLARGED PLAN ON SHEET A1.2/	
	M	MAIL KIOSK, REF. DETAILS ON SHEET A1.4	
	(2)	BBQ AREA — CURVED CONCRETE PAD W/ NATIVE STONE WALL BEHIND (2) POLE MOUNTED BBQ GRILL & (2) PICNIC TABLES. REF. SHEET A1.2	
	P	PREMANUF. CAR PORT REF. SHEET A1.4	
	(g)	BUILDING METER CENTER REF. ELECT. DWGS	
	R	BUILDING FIRE SPRINKLER ROOM REF. MECH. DWGS	
	S	BUILDING TRANSFORMER REF. ELECT. DWGS. CONTRACTOR TO COORDINATE SIZE OF CONC. PAD WITH ELECT. COMPANY	
<b>( )</b>	T	5' TALL WOOD 'BUFFER' FENCE ALONG 2 SIDES OF TRANSFORMER. REF. DTL J-A1.2. CONFIRM CLEARANCE REQUIREMENTS WITH ELECT. COMPANY.	
	٥	5' TALL WOOD 'BUFFER' FENCE FOR ELECTRICAL METERS. PARALLEL TO WALL. REF. DTL J—A1.2. CONFIRM CLEARANCE REQUIREMENTS WITH ELECT. COMPANY.	]

### REF. REF. CIVIL DWGS 5',-0" CIVIL DWGS G HC CURB CUT — PER CIVIL DWGS STRIPING PER CIVIL DWGS **ACCESSIBLE PARKING** B

### **LOT COVERAGE**

SITE	SITE	BUILDING	LOT
ACRES		FOOTPRINT	COVERAGE
94 ACRES	84,506 SF	16,857 SF	19.9%

### **PARKING SUMMARY**

ACCESSIBLE PARKING STALLS	5
STANDARD PARKING STALLS	55
OPEN PARKING STALLS	45
COVERED PARKING STALLS (+25%)	15
TOTAL PARKING STALL COUNT	60
PARKING RATIO (STALLS/UNITS)	1.43

PARKING MEETS ZONING REQ'S.

PARKING REQUIREMENTS (PER TABLE 15.14.040-3, OFF STREET PARKING STANDARDS, OF THE LARAMIE UNIFIED DEVELOPMENT CODE): 1 PARKING STALL FOR ALL (1) BEDROOM DWELLING UNITS (DU) FOR ALL OTHER DUS CONTAINING MORE THAN (1) BEDROOM,
THE FIRST 16 DUS REQUIRE 1.5 SPACES PER DU, AND FOR
EACH DU OVER 16, EACH DU WILL REQUIRE 1 SPACE

DEVELOPMENT HAS 42 DWELLING UNITS, THUS: ALL U NITS ARE 2-BED AND 3-BED. FIRST (16) UNITS =  $16 \times 1.5 = 24$  SPACES REMAINING UNITS = 26 TOTAL UNITS UNITS 17-42 = 26 X 1 = 26 SPACES

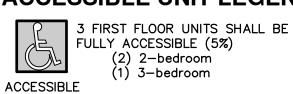
24 + 26 = 50 REQUIRED PARKING SPACES (60 PROVIDED)

MULTI-FAMILY ACCESSIBLE PARKING REQUIREMENTS: PER TABLE 15.14.040-2 (MULTI-FAMILY ACCESSIBLE PARKING) OF THE LARAMIE UNIFIED DEVELOPMENT CODE: A DEVELOPMENT WITH 42 REQUIRES 5 SPACES FOR PERSONS WITH

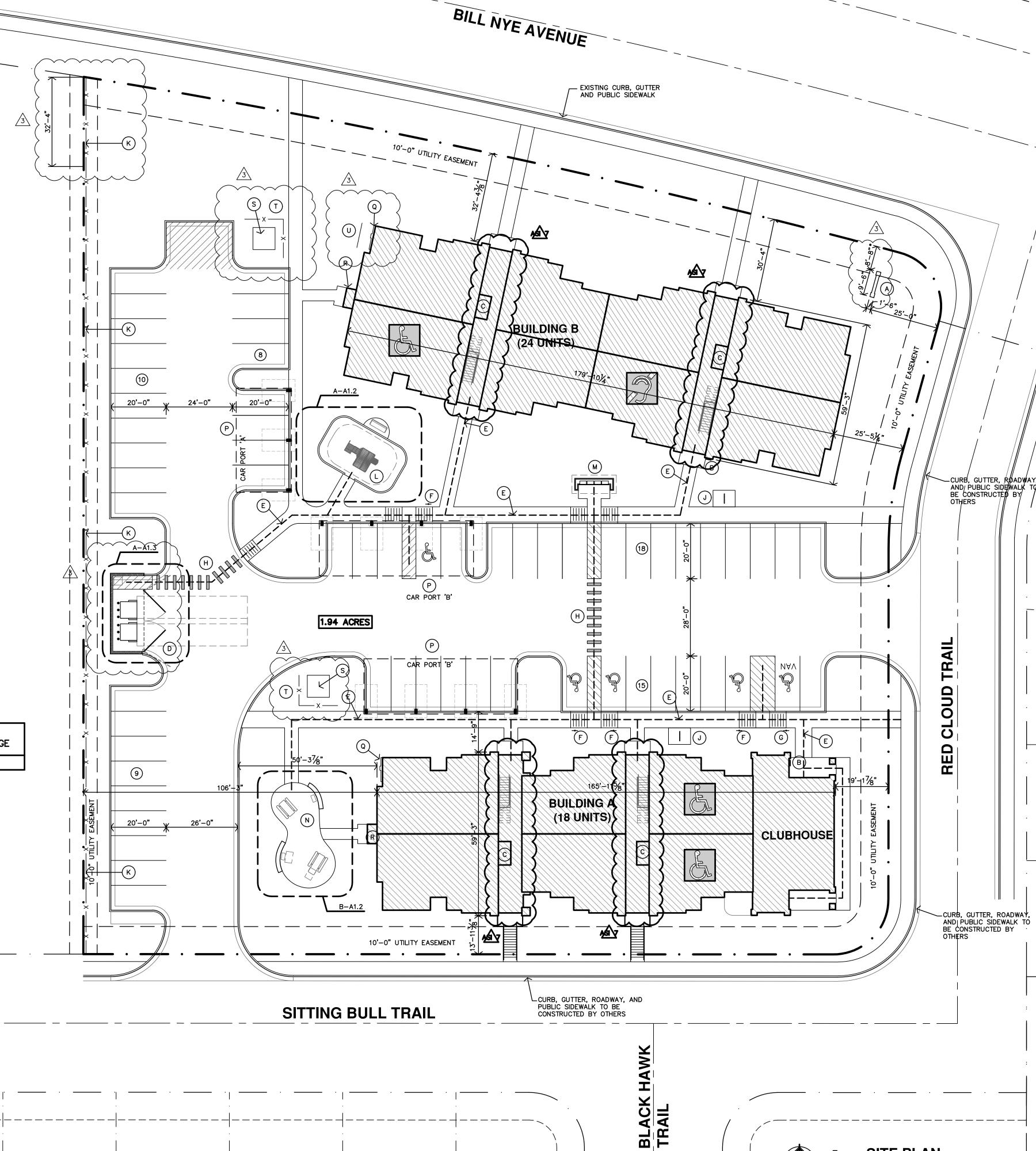
MINIMUM BICYCLE PARKING REQUIREMENTS:
AT A MINIMUM, THE GREATER OF 3 BICYCLE PARKING SPACES OR A NUMBER OF BICYCLE SPACES EQUAL TO FIVE PERCENT OF ALL OFF-STREET PARKING SPACES PROVIDED SHALL BE REQUIRED.

58 TOTAL PARKING STALLS X 5% = 3 SPACES REQUIRED (10 PROVIDED)

### **ACCESSIBLE UNIT LEGEND**



1 FIRST FLOOR UNIT SHALL BE HEARING IMPAIRED & VISION IMPAIRED ACCESSIBLE UNIT (2%) (1) 2-bedroom



Superior *Playgrounds* 

BY SUPERIOR RECREATIONAL PRODUCTS

REFERENCE NUMBER PS3-71323

3.5" STEEL STRUCTURE DESIGN

FALL HEIGHT

ADA ACCESSIBILITY

ELEVATED PLAY ACTIVITIES

THIS STRUCTURE MEETS OR EXCEEDS CPSC #325 AND ASTM F1487-17 UNLESS OTHERWISE NOTED.

PAGE

PLAN\_VIEW

WE RECOMMEND THIS PLAN BE PRINTED ON 11" x 17" PAPER

PLAYGROUND SUPERVISION IS REQUIRED.

THIS DESIGN IS THE PROPERTY OF SUPERIOR RECREATIONAL PRODUCTS AND MAY NOT BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF SUPERIOR RECREATIONAL PRODUCTS.

GROUND LEVEL GROUND LEVEL ACCESSIBLE ACCESSIBLE PLAY ACTIVITIES ACTIVITY TYPES

DRAWN/SAVED BY

1 OF 2

CK / CHRIS.KELLER

EQUIPMENT SIZE

13'X5'

AGE GROUP 2-5

USER CAPACITY

REQUIRED

1/4" = 1'-0"

use zone 25'X17'

SURFACE AREA 381 S.F.

4' TIMBER COUNT

**M** 

**REVISION:** <u>3</u> 9-10-2024

7-17-2024 22-3262

SHEET NO .:

**A1.2** 

**CUSTOM PLAY-GYM PHOTOGRAPH** 

STONE WALL SECTION

1'-6"

-PRECAST CONC CAP

-6" CMU W/ #4 VERT. @ 24"O.C. IN GROUT

-#4 IN GROUT FILLED CELLS

FILLED CELLS DOWELS #4x3'-6" @

24"O.C. IN GROUT FILLED CELLS

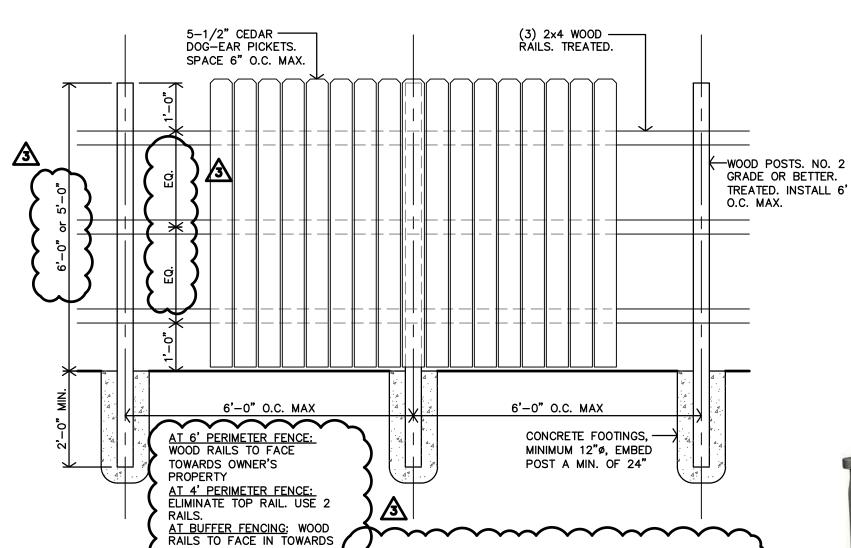
#4 STIR-UP @ 12"O.C. T&B 12 \*

(4) #4 EA. FACE

-STONE VENEER TO MATCH

BUILDINGS. SECURE PER

MFR RECOMMENDATIONS





**₩OOD PRIVACY/BUFFER FENCE** 

(1) EVEREST SERIES 6'-0" HEAVY DUTY PICNIC TABLE (www.theparkcatalog.com) (item no.595-6005) COLOR TO BE DETERMINED BY ARCHITECT/OWNER PICNIC TABLE

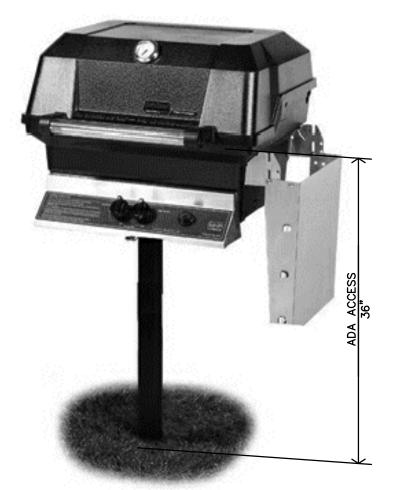


(1) EVEREST SERIES 8'-0" HEAVY DUTY ADA SINGLE SIDED PICNIC TABLE (www.theparkcatalog.com) (item no.595-6007)

ACCESSIBLE PICNIC TABLE

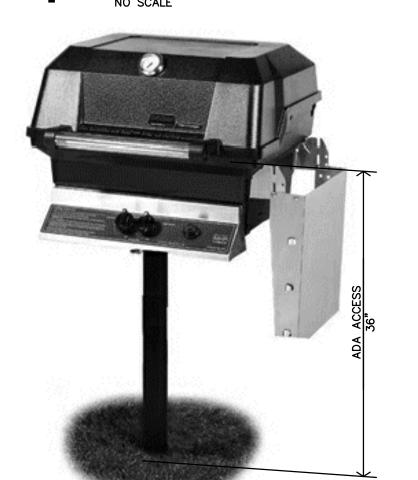


**OUTDOOR BENCH** 

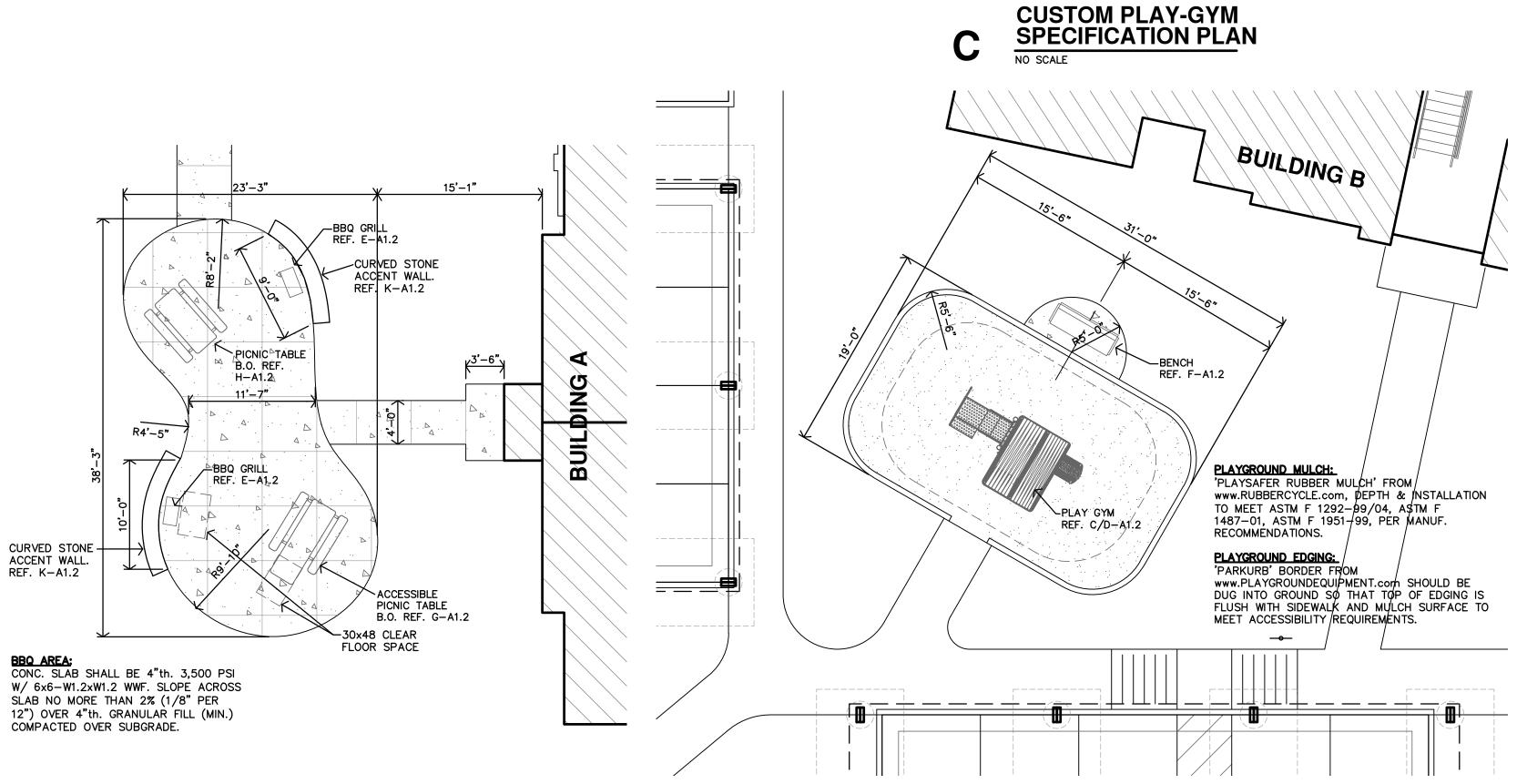


MHP PROPANE GAS GRILL WITH STAINLESS STEEL SHELVES AND STAINLESS GRIDS ON IN-GROUND POST (www.bbqguys.com) (item no.1516308 model no. JNR4DD-P)









ENLARGED TOTLOT AREA

24'-11"

[7.6M]

w/Wheel

Rock Wall

Climber

Crescent

Shade

/2 Maze

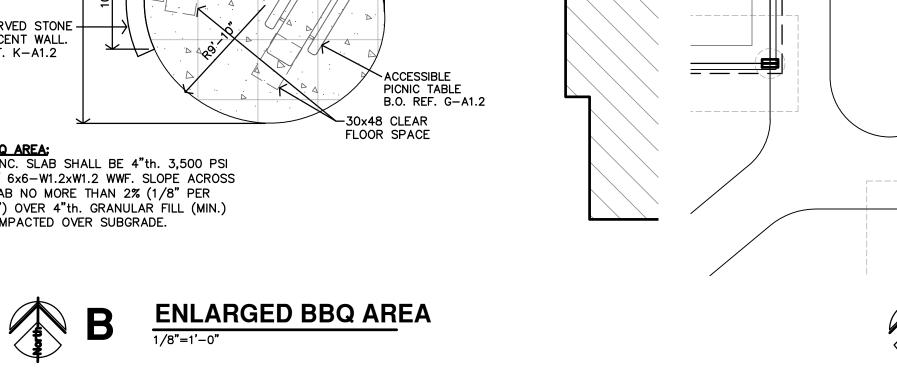
Panel (Ground Level)

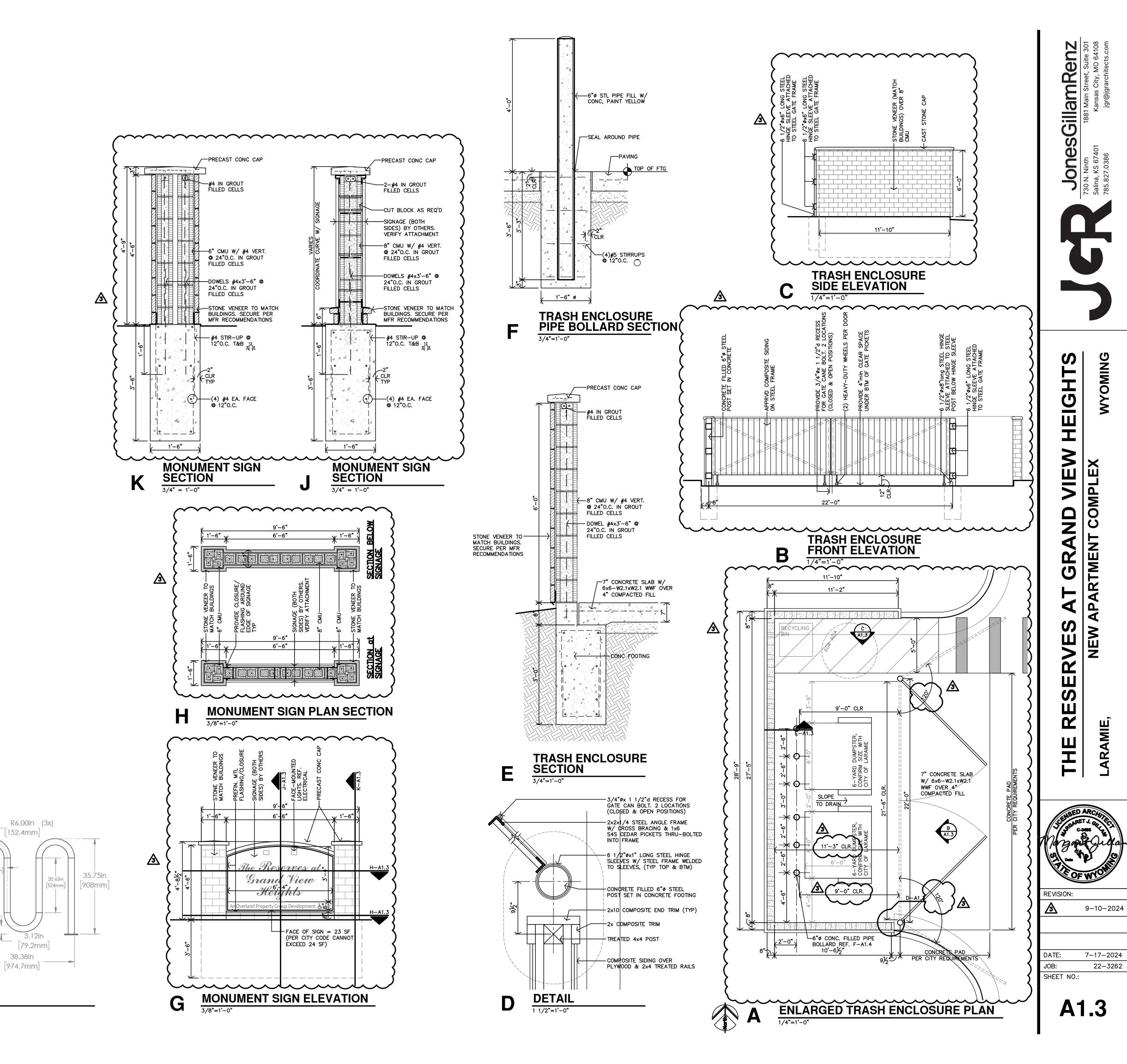
15'-11"

[4.8M]

Transfer

Station





8'-0"

5 BIKE SONIC WAVE RACK www.theparkcatalog.com

5 BIKE SONIC WAVE RACK
(2 LOCATIONS) www.theparkcatalog.com

BIKE RACK
NO SCALE

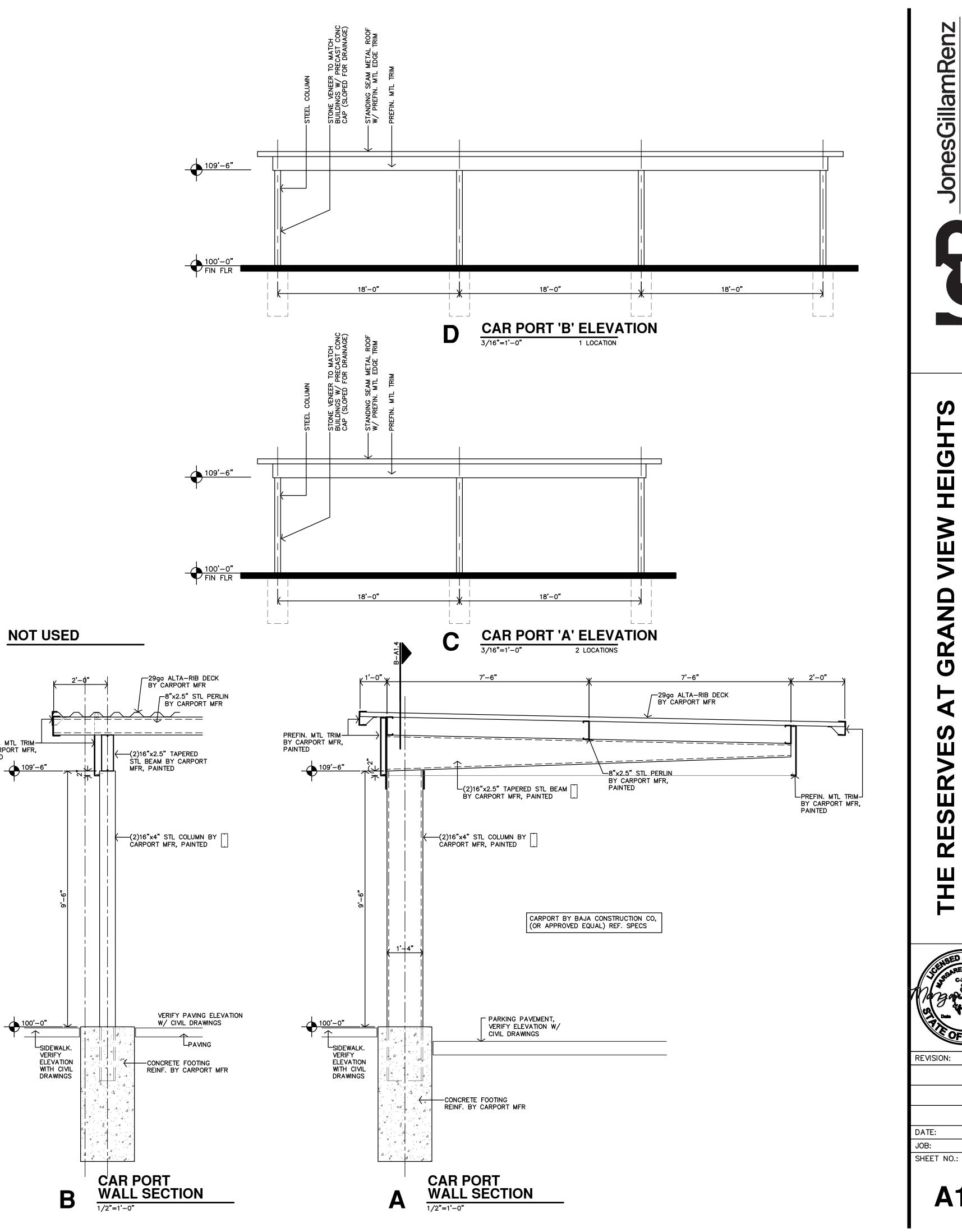
BIKE RACK PLAN

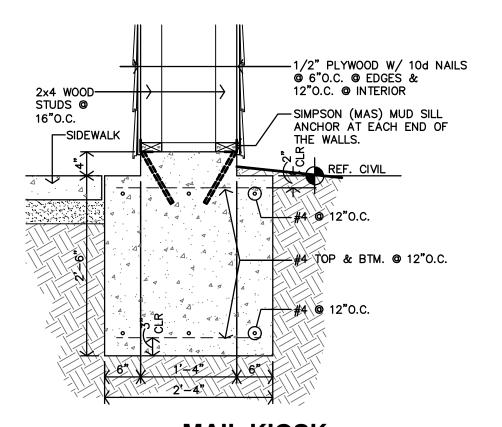
1/4"=1'-0"

12.00in [304.8mm]

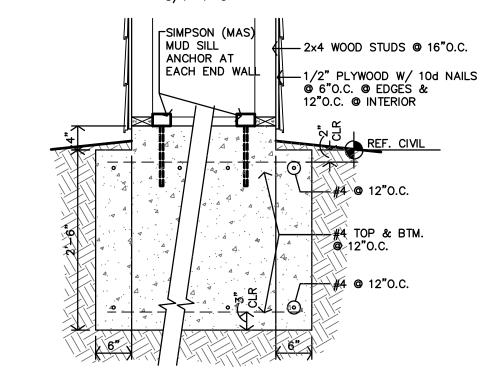
28.56in

725.5mm

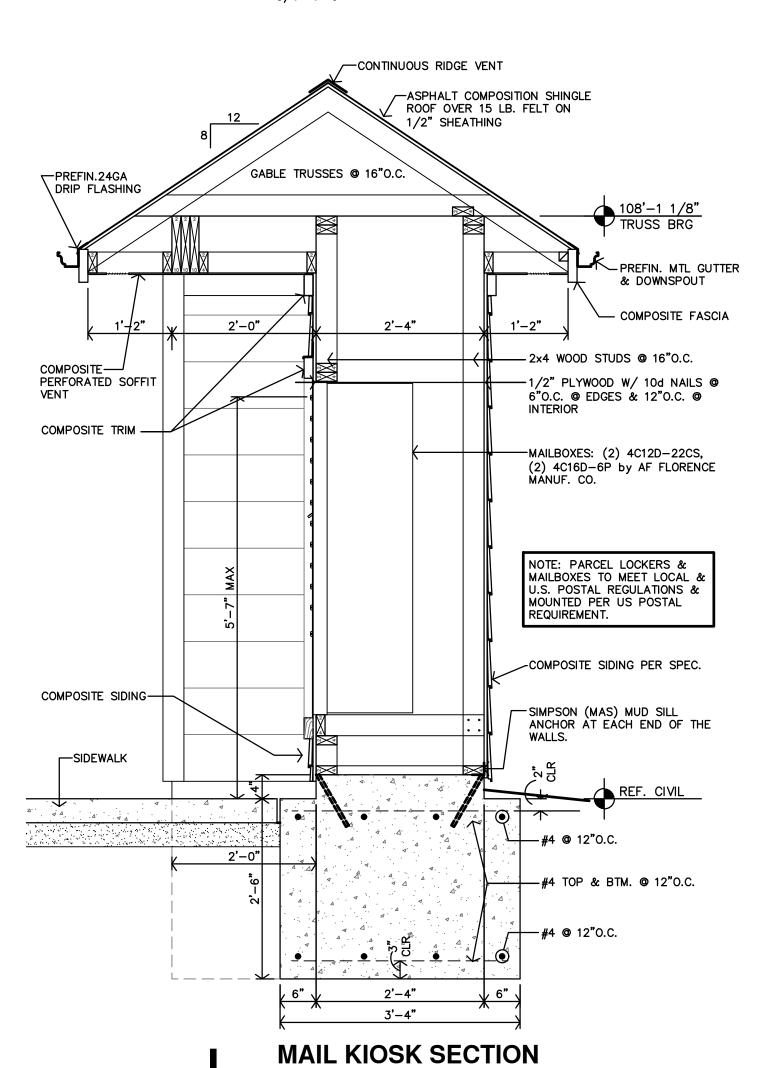




### **MAIL KIOSK** FOOTING DETAIL



MAIL KIOSK FOOTING DETAIL





MAIL KIOSK SIDE ELEVATION 1/4"=1'-0"

2x4 OUTRIGGERS @ 24" O.C.

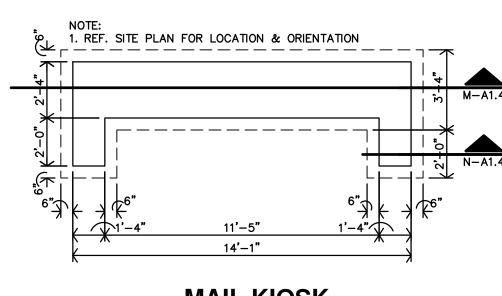
NOTES:

1. PARCEL LOCKERS AND MAILBOXES TO MEET LOCAL
& U.S. POSTAL REGULATIONS & MOUNTED PER US
POSTAL REQUIREMENT.

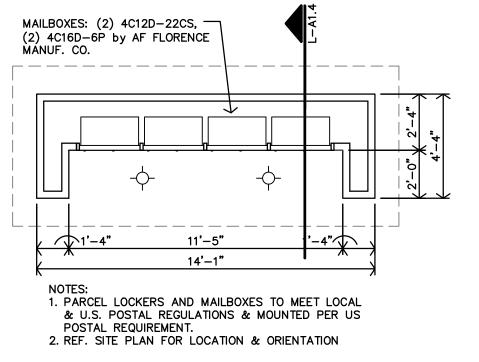
1/4"=1'-0"

GABLE TRUSS W/ VERTICAL 2x4
SIDING SUPPORTS @ 16"O.C. PROVIDE
STIFF-BACK BRACE @ MID-POINT TO
INTERIOR LOAD BEARING PARTITION

MAIL KIOSK FRONT/REAR ELEVATION



### MAIL KIOSK FOUNDATION PLAN



MAIL KIOSK **FLOOR PLAN** 

LSIDEWALK.

DRAWINGS

PREFIN. MTL TRIM— BY CARPORT MFR, PAINTED

WYOMING

**REVISION:** 

7-17-2024 22-3262 SHEET NO .:

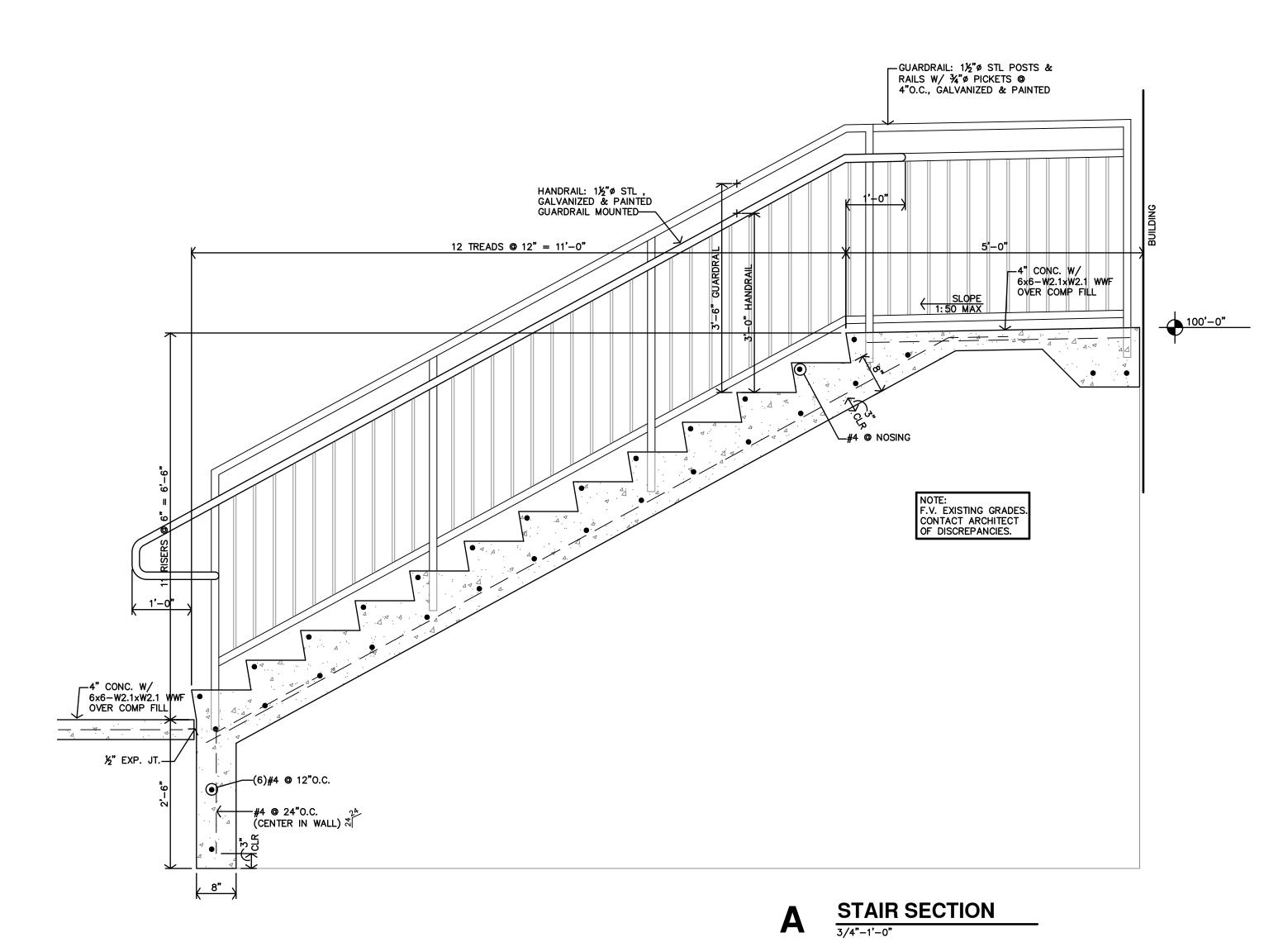
**A1.4** 

REVISION:

DATE:

7-17-2024 22-3262 <sub>D</sub> SHEET NO.:

**A**1.5



36,186 sf PROVIDED

PERIMETER LANDSCAPING REQUIREMENTS: LEVEL 1 (PER TABLE 15.14.050-2)
PLANTING AREA WIDTH IS REQUIRED TO BE 3' WIDE

TOTAL LANDSCAPE UNITS = 0.2 PER LINEAR FOOT OF STREET FRONTAGE MINUS ACCESS DRIVES AT REDESTRIAN CONNECTIONS

NORTH - 302.47 + 31.55 = 334.02 FT X 0.2 = 66.8 UNITS REQ'D  $\Rightarrow$  EAST - 126.76 + 33.95 + 50.88 - 35 = 176.59 FT X 0.2 = 35.3 UNITS REQ'D SOUTH - 271.37 + 31.42 - 35 = 267.79 FT X 0.2 = 53.6 UNITS REQ'D

20% MUST BE SHRUBS (SEE CHART BELOW) FOR LANDSCAPE UNITS PROVIDED

LOCATIONS PARKING AREA TREES

REQUIREMENT: 1 TREE PER 10 STALLS

6 TREES REQUIRED (60/10) 6 TREES PROVIDED (REFERENCE PLAN FOR LOCATIONS)

INTERNAL PARKING LANDSCAPE ISLANDS REQUIREMENT: 20 sf LANDSCAPED AREA PER EVERY ADDITIONAL STALL OVER 9 STALLS.

WEST - 317.55 FT X 0.2 = 63.5 UNITS REQ'D

1,020 sf REQUIRED (51 STALLS x 20 sf)

2,391 sf PROVIDED (REFERENCE PLAN FOR LOCATIONS)

GROUND CC	<b>)</b> \	<b>/E</b>	ΞI	7	L	.E	=(	3	E	N	D	)	
	$\rightarrow$		$\forall$		$\forall$								
SEED/SOD	$\forall$	$\forall$	$\forall$	$\forall$	$\forall$	$\forall$	$\forall$	$\forall$	$\forall$	$\forall$	<b>+ +</b>	$\forall$	$\forall$

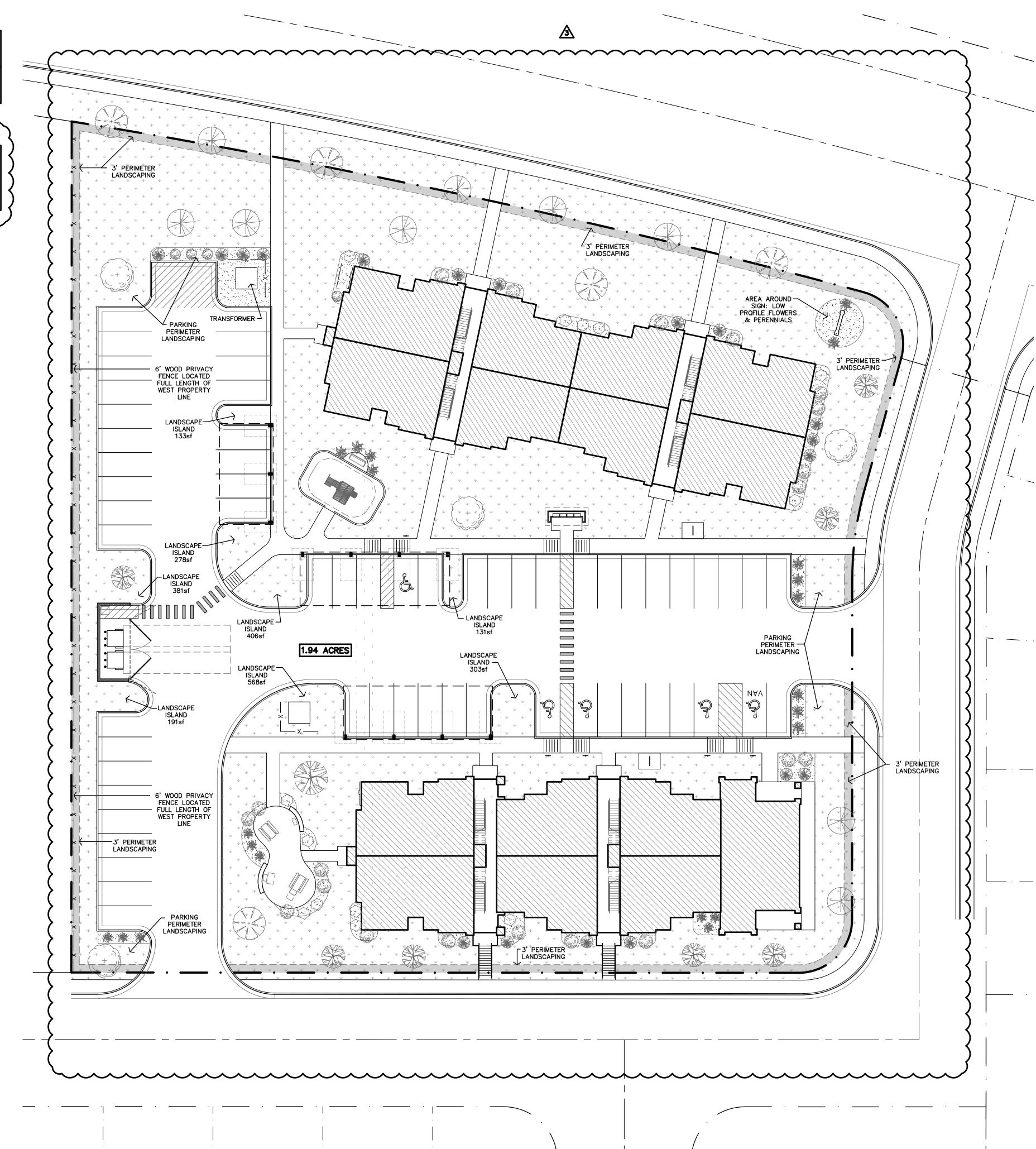
SEED/SOD	→ → →	<b>*</b>	\psi \psi \psi \psi \psi \psi \psi \psi	<b>*</b>	\rightarrow \right	<b>*</b>	<b>* * *</b>	<b>*</b>	<b>* *</b>	<b>*</b>	<b>+ + +</b>	ψ Ψ	<b>* * *</b>	<b>+ +</b>
MULCH/ROCK BEDS WITH METAL EDGING									4					· .

#### **IRRIGATION NOTE**

ALL REQUIRED LANDSCAPING AND LANDSCAPING AREAS SHALL INCLUDE A PERMANENTLY INSTALLED IRRIGATION SYSTEM. FINAL IRRIGATION PLANS SHALL BE PROVIDED BY AN IRRIGATION/LANDSCAPING PROFESSIONAL AND SHALL BE SUBMITTED AND APPROVED BY THE CITY OF LARAMIE PRIOR TO INSTALLATION.

LANDSCAPE UNITS AWARDED	) /	<u>√3</u>	7		
1ATERIAL	SYMBOL	MIN. PLANTING SIZE	QUANTITY	UNITS	TOTAL
NORTH SIDE	<u> </u>		)		
KYLINE HONEYLOCUST (TREE, DECIDUOUS)		1.5"caliper	4	4	16
ADIANT CRABAPPLE (TREE, DECIDUOUS)		1.5"caliper	7	4	28
WARF MOUNTAIN MUGO PINE (SHRUB, EVERGREEN)		5 gallon or #5 container	<b>}</b> 9	1	9
PROP LEAF POTENTILLA(SHRUB, DECIDUOUS)		1 gallon or #1 container	8	1	8
LPINE CURRANT (SHRUB, DECIDUOUS)	+	5 gallon or #5 container	<b>3</b> 4	1	4
HREE-LEAF SUMAC (SHRUB, DECIDUOUS)	*	5 gallon or #5 container	2	1	2
TOTAL UNITS (NORTH)	<u> </u>		<u> </u>		67
EAST SIDE	<u> </u>		5		<u> </u>
SIGTOOTH MAPLE (TREE, DECIDUOUS)	+	1.5"caliper	1	4	4
ESTERN RIVER BIRCH (TREE, DECIDUOUS)		1.5"caliper	<b>3</b> 2	4	8
ADIANT CRABAPPLE (TREE, DECIDUOUS)		1.5"caliper	2	4	8
WARF MOUNTAIN MUGO PINE (SHRUB, EVERGREEN)	<b>&gt;</b>	5 gallon or #5 container	5	1	5
LPINE CURRANT (SHRUB, DECIDUOUS)	+	5 gallon or #5 container	<b>}</b> 2	1	2
PROP LEAF POTENTILLA(SHRUB, DECIDUOUS)		1 gallon or #1 container	6	1	6
HREE-LEAF SUMAC (SHRUB, DECIDUOUS)	*	5 gallon or #5 container	6	1	6
TOTAL UNITS (EAST)	<u> </u>		)		39
SOUTH SIDE	<b>\</b>		<b>)</b>		
ESTERN RIVER BIRCH (TREE, DECIDUOUS)		1.5"caliper	4	4	16
SIGTOOTH MAPLE (TREE, DECIDUOUS)	+	1.5"caliper	<b>)</b> 1	4	4
KYLINE HONEYLOCUST (TREE, DECIDUOUS)		1.5"caliper	<b>}</b> 1	4	4
WARF MOUNTAIN MUGO PINE (SHRUB, EVERGREEN)		5 gallon or #5 container	4	1	4
LPINE CURRANT (SHRUB, DECIDUOUS)	+	5 gallon or #5 container	<b>3</b> 7	1	7
PROP LEAF POTENTILLA(SHRUB, DECIDUOUS)		1 gallon or #1 container	3 10	1	10
HREE-LEAF SUMAC (SHRUB, DECIDUOUS)	*	5 gallon or #5 container	9	1	9
TOTAL UNITS (EAST)			<u> </u>		54
WEST SIDE			<u> </u>		
PAQUE SCREENING FENCE (6' TALL) ———————————————————————————————————	$-\times$		318'	0.4	127
ESTERN RIVER BIRCH (TREE, DECIDUOUS)		1.5"caliper	} 1	4	4
SIGTOOTH MAPLE (TREE, DECIDUOUS)	+	1.5"caliper	<sub>1</sub> کر	4	4
TOTAL UNITS (EAST)					135

\*NOTE - THIS PLAN IS FOR LOCATION, SIZING, CALCULATIONS AND PERMITTING PURPOSES ONLY. FINAL PLANTING SPECIES, TYPE, AND LOCATION MAY VARY BASED ON SEASON AND AVAILABILITY. A FINAL PLANTING PLAN SHALL BE SUBMITTED, FOR APPROVAL, BY A LANDSCAPING PROFESSIONAL. DEVIATIONS FROM THE PLAN ARE REQUIRED TO BE APPROVED BY THE CITY OF LARAMIE PRIOR TO INSTALLATION.

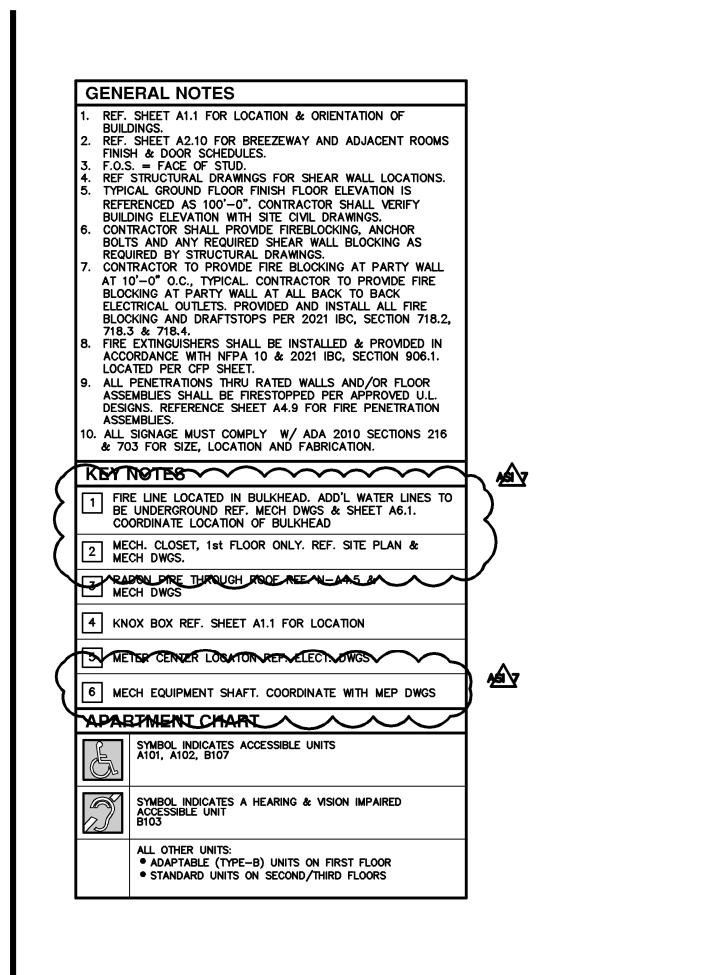


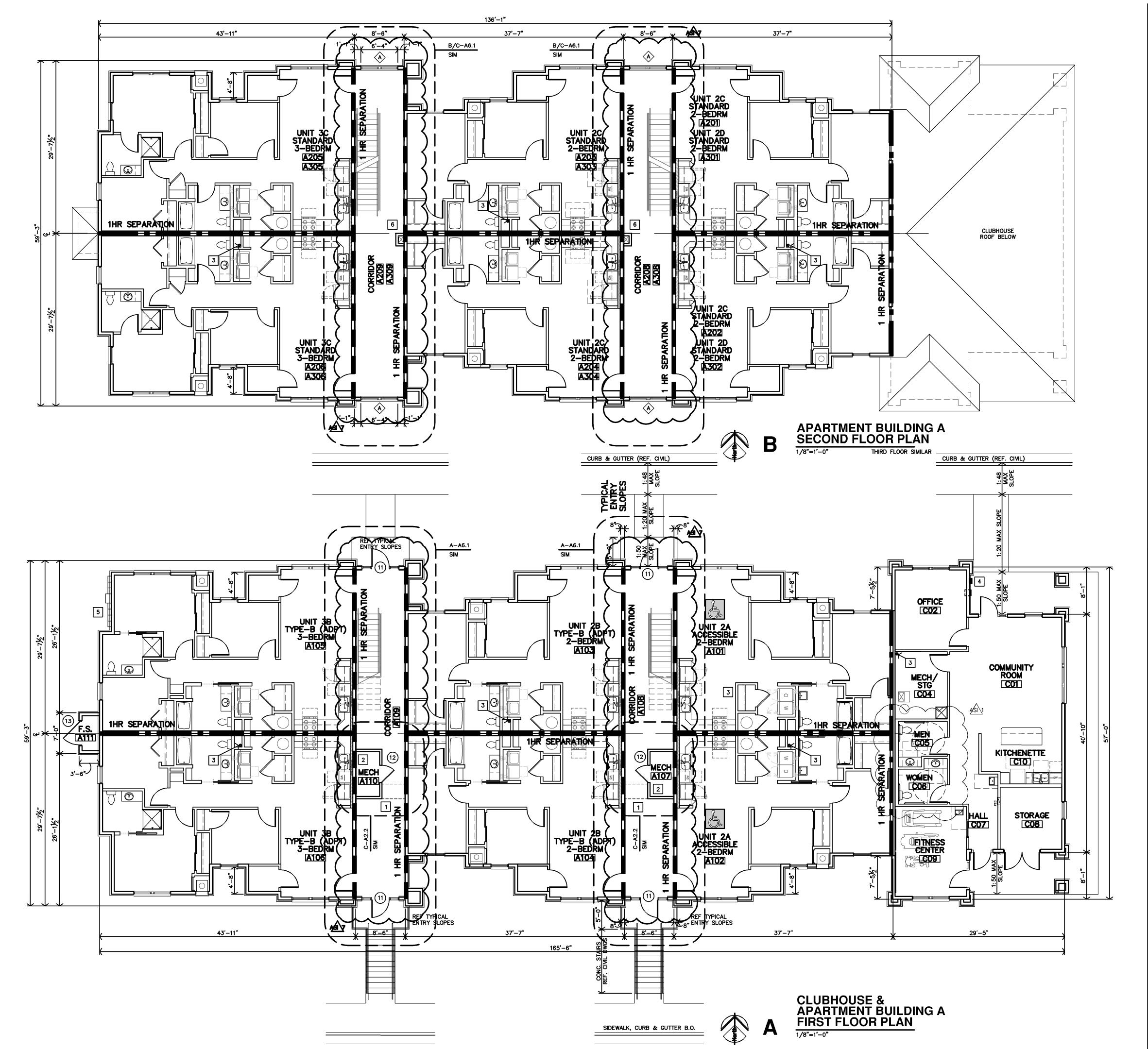




9-10-2024

7-17-2024 22-3262 SHEET NO.:





OnesGillamRer

N. Ninth 1881 Main Street, Suite
R. KS 67401 Kansas City, MO 6
127.0386 jgr@jgrarchitects

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EW APARTMENT COMPLEX

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CENSED ARCHITECT CONTROL CONTR

REVISION:

9-27-2024

4-15-2025

DATE: 7-17-2024

JOB: 22-3262

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REVISION:
4-15-

DATE: 7-17-2024

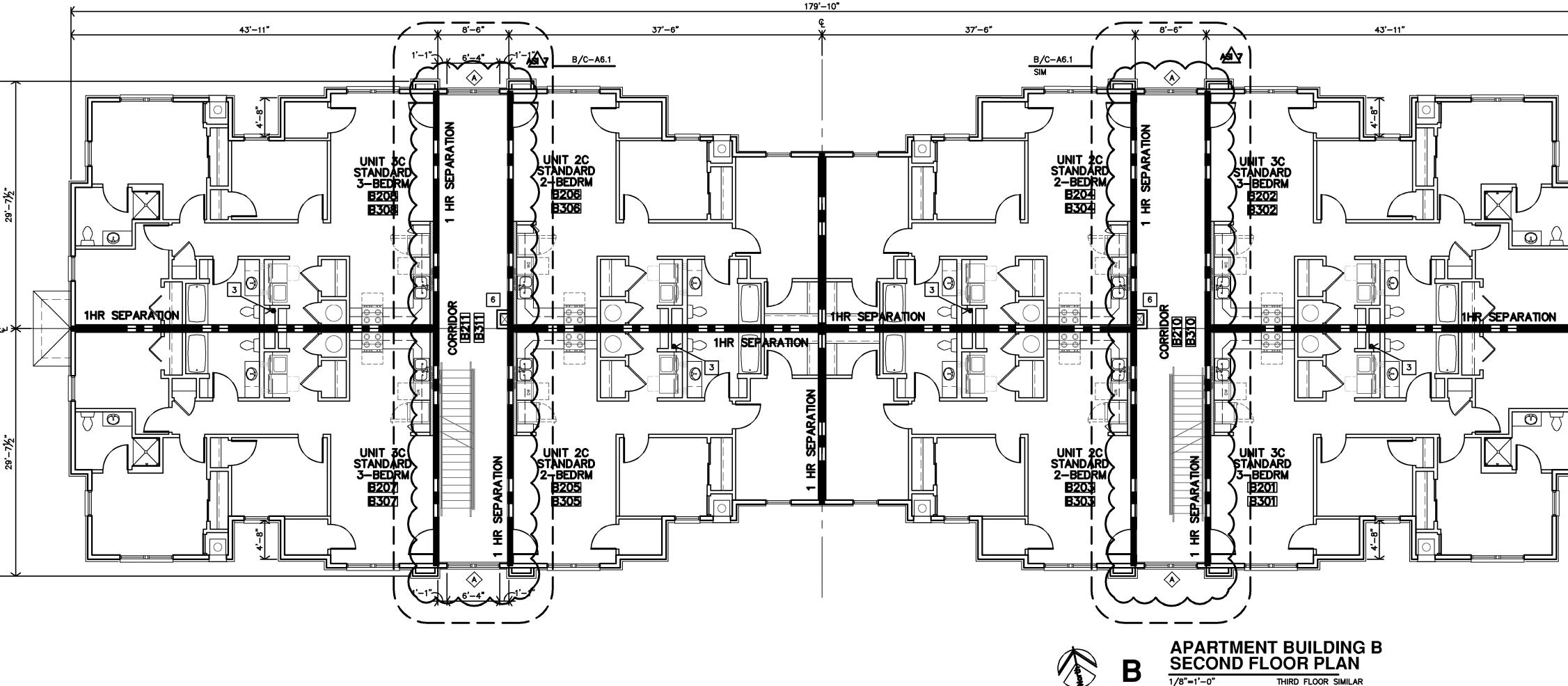
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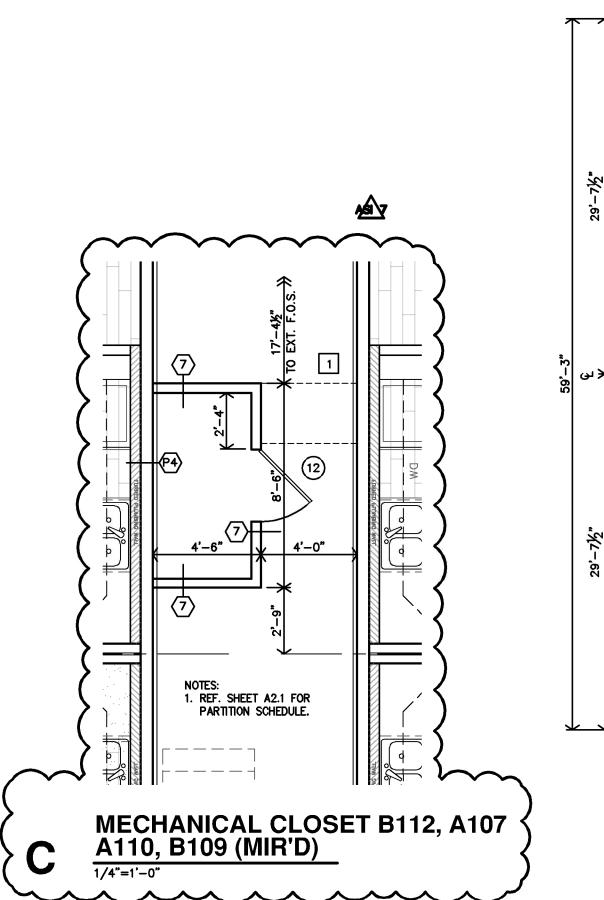
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7-17-2024 22-3262







**GENERAL NOTES** 

F.O.S. = FACE OF STUD.

LOCATED PER CFP SHEET.

ASSEMBLIES.

REF. SHEET A1.1 FOR LOCATION & ORIENTATION OF

BUILDING ELEVATION WITH SITE CIVIL DRAWINGS.
CONTRACTOR SHALL PROVIDE FIREBLOCKING, ANCHOR
BOLTS AND ANY REQUIRED SHEAR WALL BLOCKING AS

REQUIRED BY STRUCTURAL DRAWINGS.

BUILDINGS.
REF. SHEET A2.10 FOR BREEZEWAY AND ADJACENT ROOMS
FINISH & DOOR SCHEDULES.

REF STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS.
TYPICAL GROUND FLOOR FINISH FLOOR ELEVATION IS
REFERENCED AS 100'-0". CONTRACTOR SHALL VERIFY

CONTRACTOR TO PROVIDE FIRE BLOCKING AT PARTY WALL

AT 10'-0" O.C., TYPICAL. CONTRACTOR TO PROVIDE FIRE

BLOCKING AT PARTY WALL AT ALL BACK TO BACK ELECTRICAL OUTLETS. PROVIDED AND INSTALL ALL FIRE BLOCKING AND DRAFTSTOPS PER 2021 IBC, SECTION 718.2, 718.3 & 718.4.

3. FIRE EXTINGUISHERS SHALL BE INSTALLED & PROVIDED IN ACCORDANCE WITH NFPA 10 & 2021 IBC, SECTION 906.1.

ALL PENETRATIONS THRU RATED WALLS AND/OR FLOOR
ASSEMBLIES SHALL BE FIRESTOPPED PER APPROVED U.L.
DESIGNATION
ASSEMBLIES SHEET A4.9 FOR FIRE PENETRATION

O. ALL SIGNAGE MUST COMPLY W/ ADA 2010 SECTIONS 216 & 703 FOR SIZE, LOCATION AND FABRICATION.

THE LINE LOCATED IN BULKHEAD. ADD'L WATER LINES TO

REYNOTES

BE UNDERGROUND REF. MECH DWGS & SHEET A6.1.
COORDINATE LOCATION OF BULKHEAD

MECH. CLOSET, 1st FLOOR ONLY. REF. SITE PLAN & MECH DWGS.

PADON FIRE TUROUGH ROOF REFT. N. AN. 5 & MECH DWGS

MEJER CENTER LOCATION RES. EDECT. DWGS

SYMBOL INDICATES ACCESSIBLE UNITS A101, A102, B107

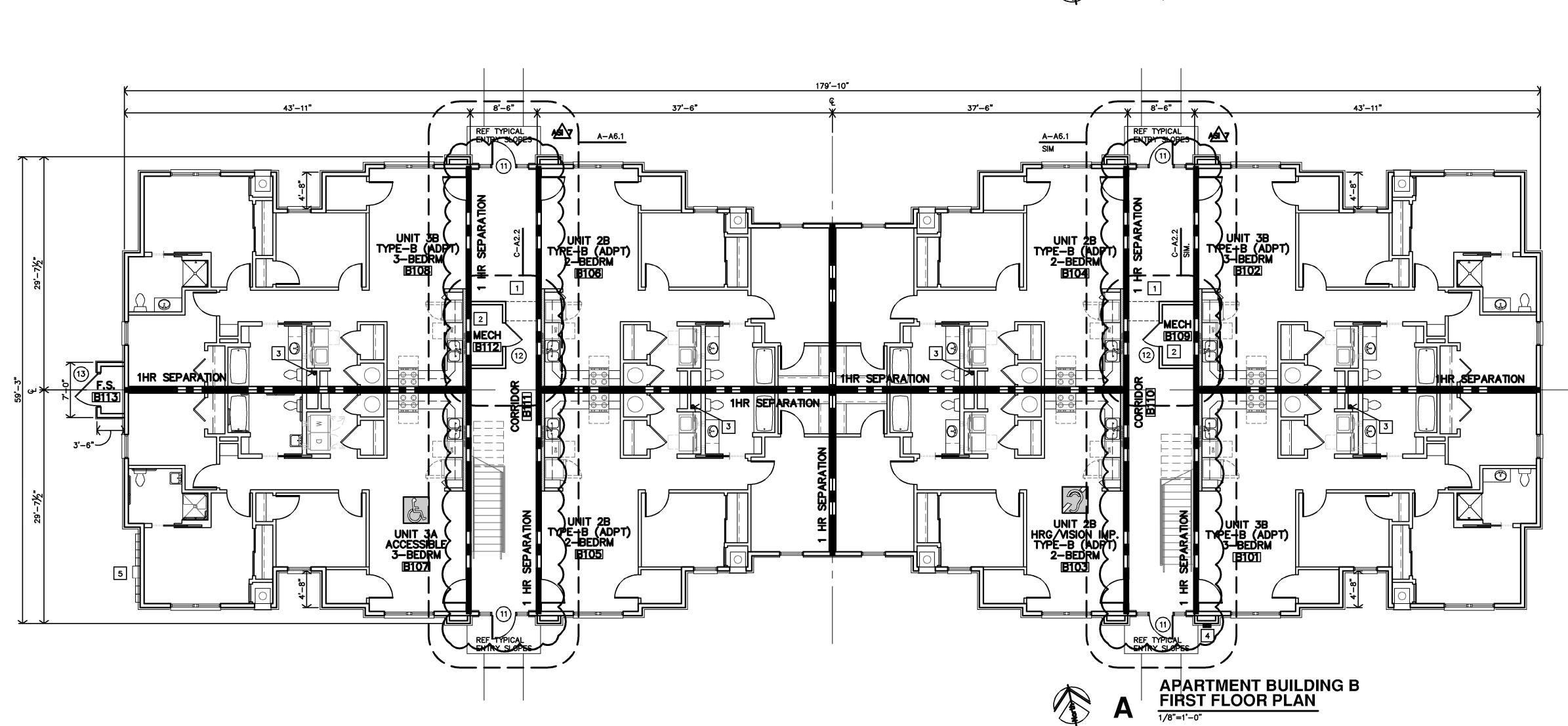
6 MECH EQUIPMENT SHAFT. COORDINATE WITH MEP DWGS

APAPTHENT CHAPT

SYMBOL INDICATES A HEARING & VISION IMPAIRED ACCESSIBLE UNIT B103

ADAPTABLE (TYPE-B) UNITS ON FIRST FLOOR
 STANDARD UNITS ON SECOND/THIRD FLOORS

4 KNOX BOX REF. SHEET A1.1 FOR LOCATION



- 2. TYPICAL GROUND FLOOR FINISH FLOOR ELEVATION IS REFERENCED AS 100'-0". CONTRACTOR SHALL VERIFY BUILDING ELEVATION WITH SITE CIVIL DRAWINGS.
  REFERENCE SITE PLAN SHEET A1.1 FOR LOCATION & ORIENTATION OF BUILDINGS.
- 4. CONTRACTOR SHALL PROVIDE ADJUSTABLE PLASTIC COATED WIRE SHELVES & ROD AT ALL CLOSETS
- 5. CONTRACTOR SHALL PROVIDE FIREBLOCKING, ANCHOR BOLTS AND ANY REQUIRED SHEAR WALL
- BLOCKING AS REQUIRED BY STRUCTURAL DRAWINGS. 6. CONTRACTOR TO PROVIDE FIRE BLOCKING AT PARTY WALL AT 10'-0" O.C., TYPICAL. CONTRACTOR TO PROVIDE FIRE BLOCKING AT PARTY WALL AT ALL BACK TO BACK ELECTRICAL OUTLETS. PROVIDED
- AND INSTALL ALL FIRE BLOCKING AND DRAFTSTOPS PER 2021 IBC, SECTION 718. 7. FIRE EXTINGUISHERS SHALL BE INSTALLED & PROVIDED IN ACCORDANCE WITH NFPA 10, 2021 IBC, SECTION 906.1 AND SPECIFICATIONS. WALL MOUNTED EXTINGUISHERS PROVIDED IN CLOSET #108 PER
- 8. ALL PENETRATIONS THRU RATED WALLS AND/OR FLOOR ASSEMBLIES SHALL BE FIRESTOPPED PER APPROVED U.L. DESIGNS. REFERENCE SHEET A4.8 FOR FIRE PENETRATION ASSEMBLIES
  9. HOSE BIBS TO BE LOCATED 6"min. ABOVE WAINSCOT (30"MIN ABV. FIN. FLOOR).
  10. B.O. HEADER 83" ABV. FIN. FLR.
- 11. KITCHEN RECEPTACLES TO BE © 44"max above fin flr.

  12. Submit verification that all construction material will meet <u>us epa</u> criteria particularly materials that will be obtained from international sources. Also provide verification that the construction will not result in or contain hazardous materials.
- 13. ALL WALL DIMENSIONS ARE TO FACE OF GYP. BD. UNLESS NOTED OTHERWISE. 14. F.O.S. = FACE OF STUD
- 15. FE = FIRE EXTINGUISHER

  16. HEARING/VISION IMPAIRED UNIT (WHERE INDICATED ON SHEET A1.1 AND LISTED ON BUILDING PLANS): • CONTRACTOR SHALL INSTALL EQUIPMENT REQUIRED PER 2010 ADA SEC. 809.5.

### **STANDARD UNIT NOTES**

19. <u>STANDARD UNITS</u> (ALL SECOND & THIRD FLOOR UNITS):

◆CONTRACTOR TO PROVIDE 2x8 BLOCKING IN WALLS FOR COUNTERTOP & SUPPORTS. • ALL CLOSETS TO HAVE PLASTIC WIRE CLOTHES SHELF & ROD WITH ADJUSTABLE BRACKETS (UNLESS OTHERWISE NOTED). MOUNT TOP OF SHELF AT 69" AFF.

### **ADAPTABLE (TYPE-B) UNIT NOTES**

- 20. ADAPTABLE (TYPE-B) UNITS (WHERE INDICATED ON SHEET A1.1 AND BUILDING PLANS):

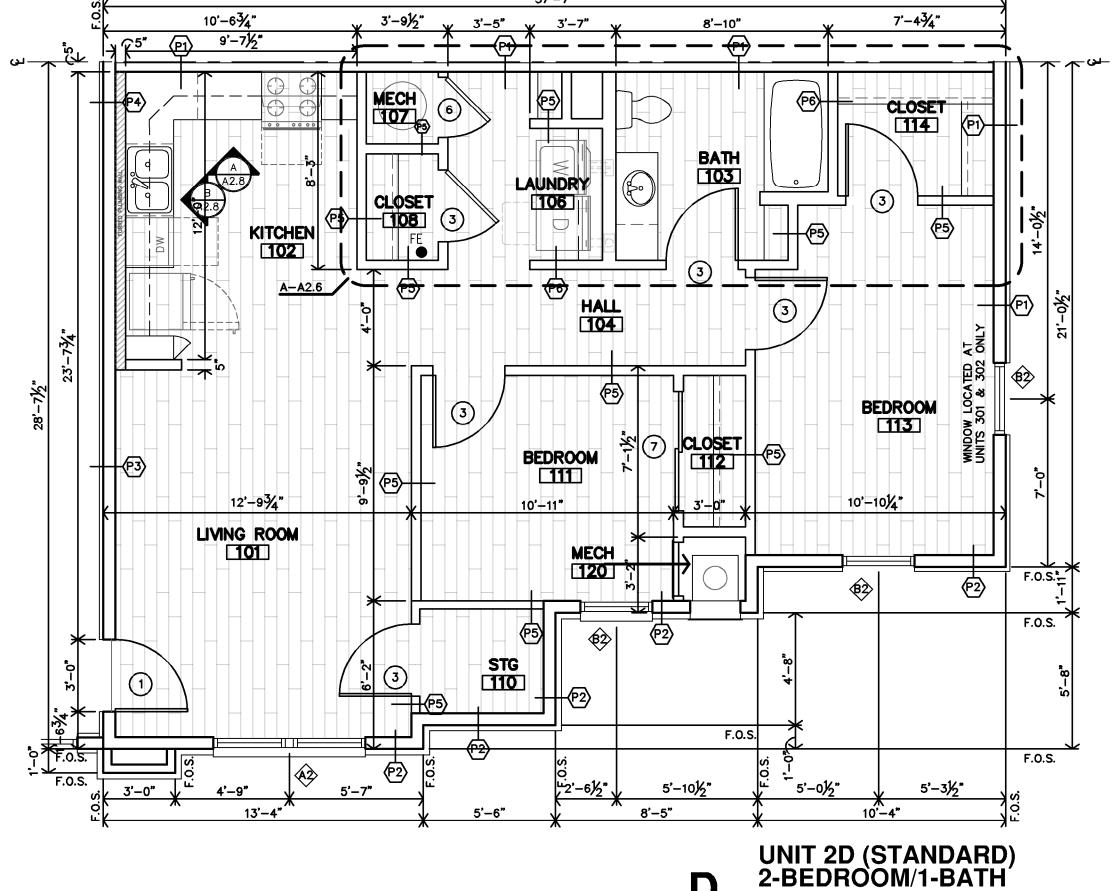
   REFERENCE ENLARGED PLANS AND DETAILS FOR ADDITIONAL INFORMATION
- 2-BEDROOM: CONTRACTOR TO INSTALL 2x8 BLOCKING IN WALLS FOR FUTURE GRAB BARS ② ALL TOILETS & TUBS AND COUNTERTOPS AT BATH #103
- 3-BEDROOM: CONTRACTOR TO INSTALL 2x8 BLOCKING IN WALLS FOR FUTURE GRAB BARS @ ALL TOILETS & TUBS AND COUNTERTOPS AT BATH #103 & PRIMARY BATH #118.
  - TOILETS SHALL BE ADA COMPLIANT (17"-19" HIGH).
  - CONTRACTOR TO INSTALL BLOCKING PER ICC/ANSI A117.1-2017.
  - ALL CLOSETS TO HAVE PLASTIC WIRE CLOTHES SHELF & ROD WITH ADJUSTABLE BRACKETS (UNLESS OTHERWISE NOTED). MOUNT TOP OF SHELF AT 69" AFF.
  - ALL SWITCHES, OUTLETS, THERMOSTATS, AND OTHER ENVIRONMENTAL CONTROLS MUST BE MOUNTED A MAX. OF 48" A.F.F. (NOT LESS THAN 15" A.F.F.)

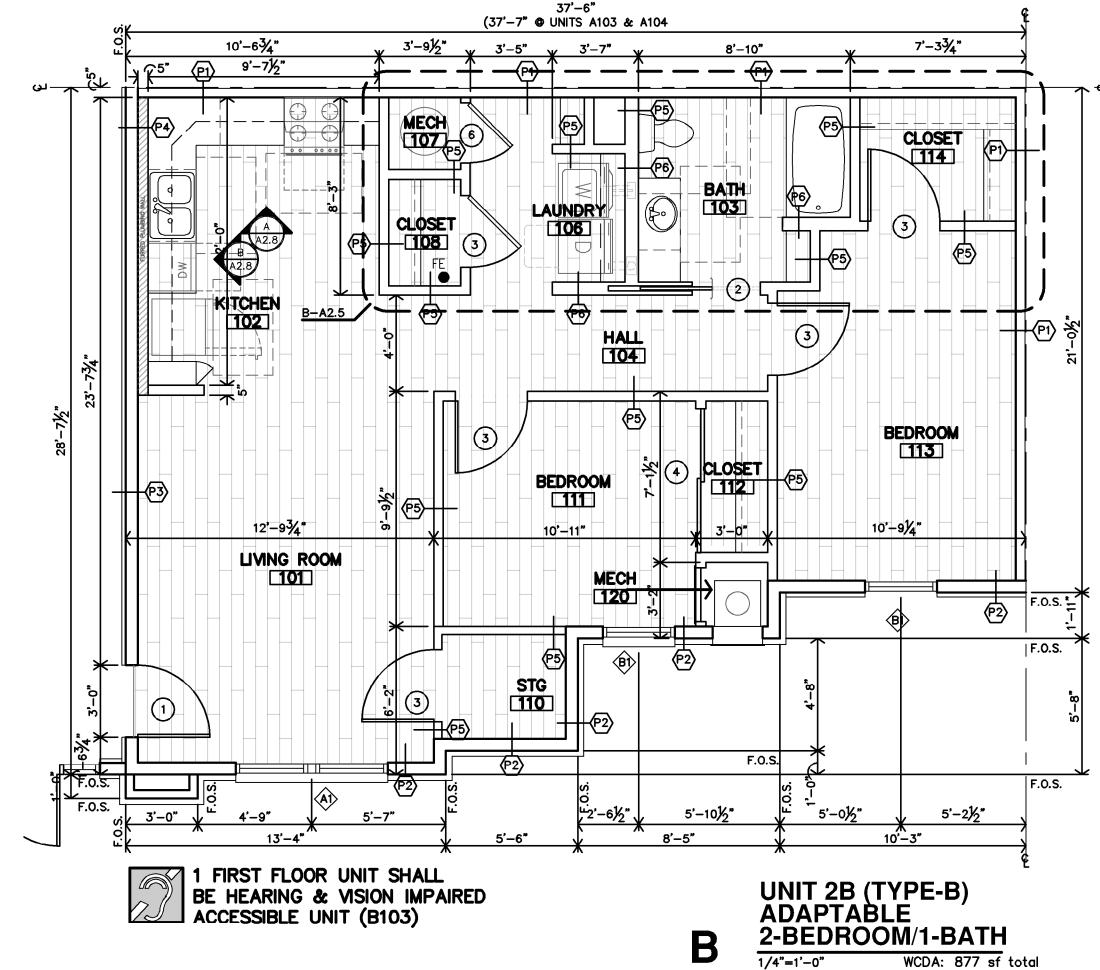
### **ACCESSIBLE UNITS NOTES**

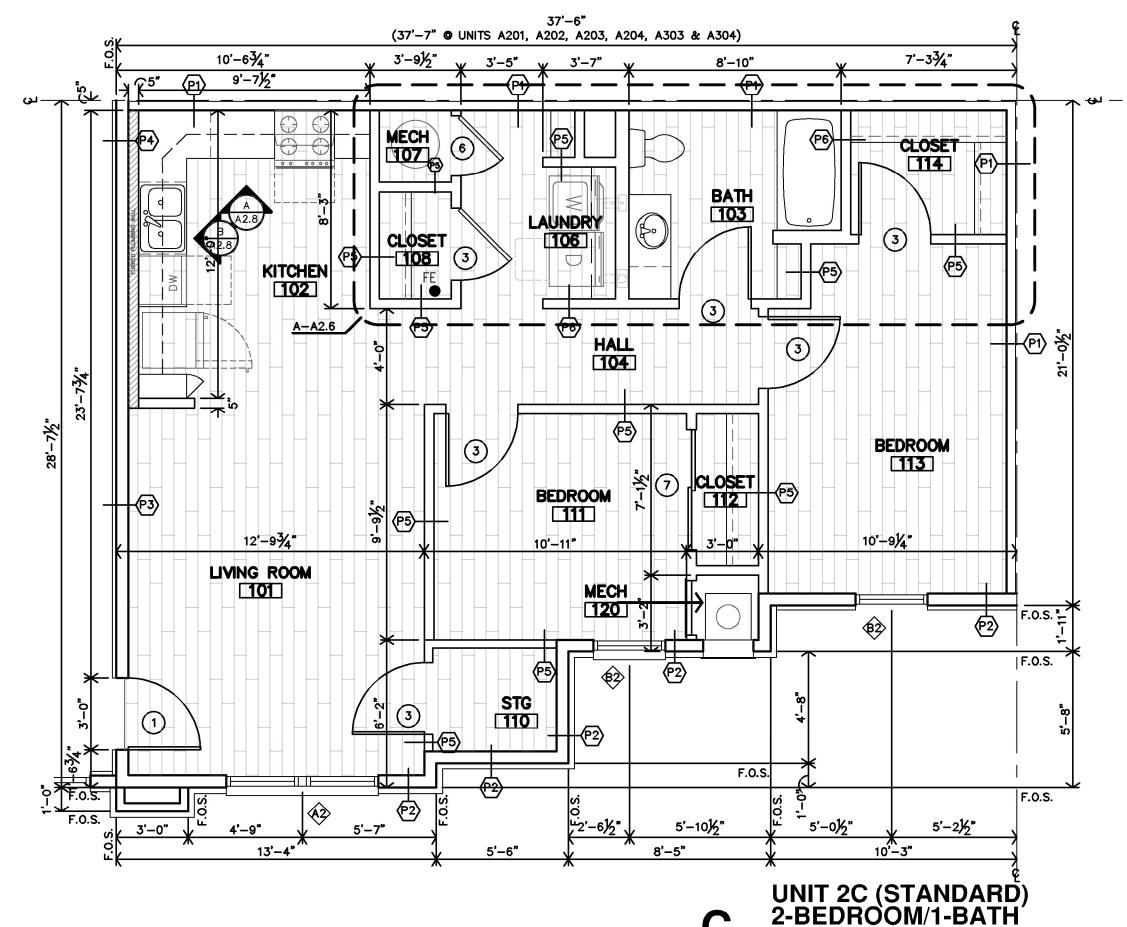
- 21. ACCESSIBLE UNITS (WHERE INDICATED ON SHEET A1.1 AND LISTED ON BUILDING PLANS):

   REFERENCE ENLARGED PLANS AND DETAILS FOR ADDITIONAL INFORMATION
- 2-BEDROOM: CONTRACTOR TO INSTALL 2x8 BLOCKING IN WALLS FOR GRAB BARS ■ ALL TOILETS & TUBS AND BLOCKING ■ SINKS & COUNTERTOPS AT BATH #103 3-BEDROOM: CONTRACTOR TO INSTALL 2x8 BLOCKING IN WALLS FOR GRAB BARS ■ ALL TOILET & TUB AND BLOCKING ■ COUNTERTOP AT PRIMARY BATHS #103 & #118 • ALL UNITS:
- OPEN KNEE SPACE SHALL BE PROVIDED SINK & WORK SPACE IN KITCHEN #102
  CONTRACTOR SHALL INSTALL HOT WATER & DRAIN PIPES COVERS.
  TOILETS SHALL BE ADA COMPLIANT (17"-19" HIGH).
- CONTRACTOR TO INSTALL BLOCKING AND PROVIDE & INSTALL GRAB BARS
- PER ICC/ANSI A117.1-2017.
- ALL CLOSETS TO HAVE PLASTIC WIRE CLOTHES SHELF & ROD WITH ADJUSTABLE BRACKETS (UNLESS NOTED OTHERWISE). MOUNT TOP OF SHELF AT 48" AFF.
- KITCHEN COUNTERTOPS SHALL BE MAX. 34" A.F.F. BATHROOM SINK RIM SHALL BE
- ALL SWITCHES, OUTLETS, THERMOSTATS, AND OTHER ENVIRONMENTAL CONTROLS MUST BE MOUNTED A MAX. OF 48" A.F.F. (NOT LESS THAN 15" A.F.F.)
   HEIGHT OF OPERABLE WINDOW PARTS (LATCHES/LOCKS, ETC.) SHALL BE LOCATED

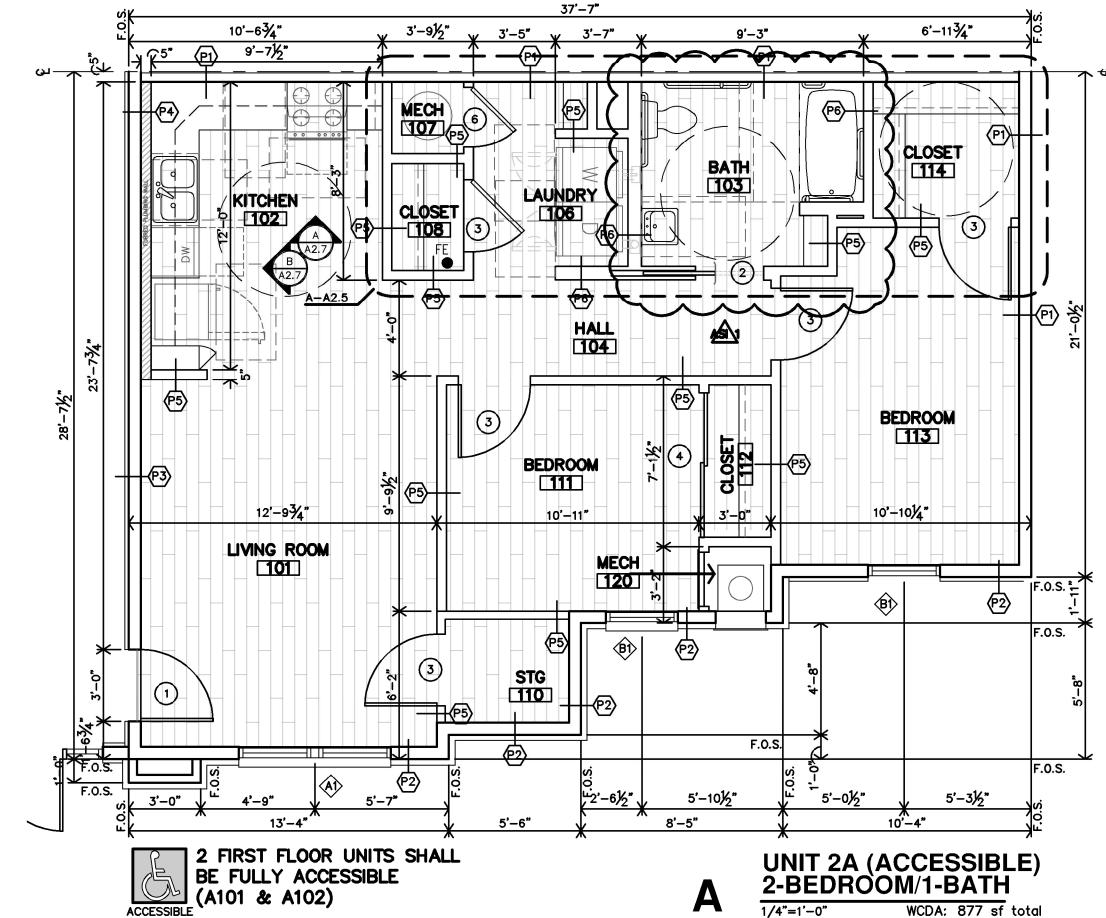
PARTITION & ASSEMBLY TYPES CAN BE FOUND ON SHEET A2.4



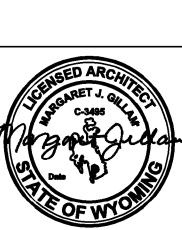




WCDA: 877 sf total



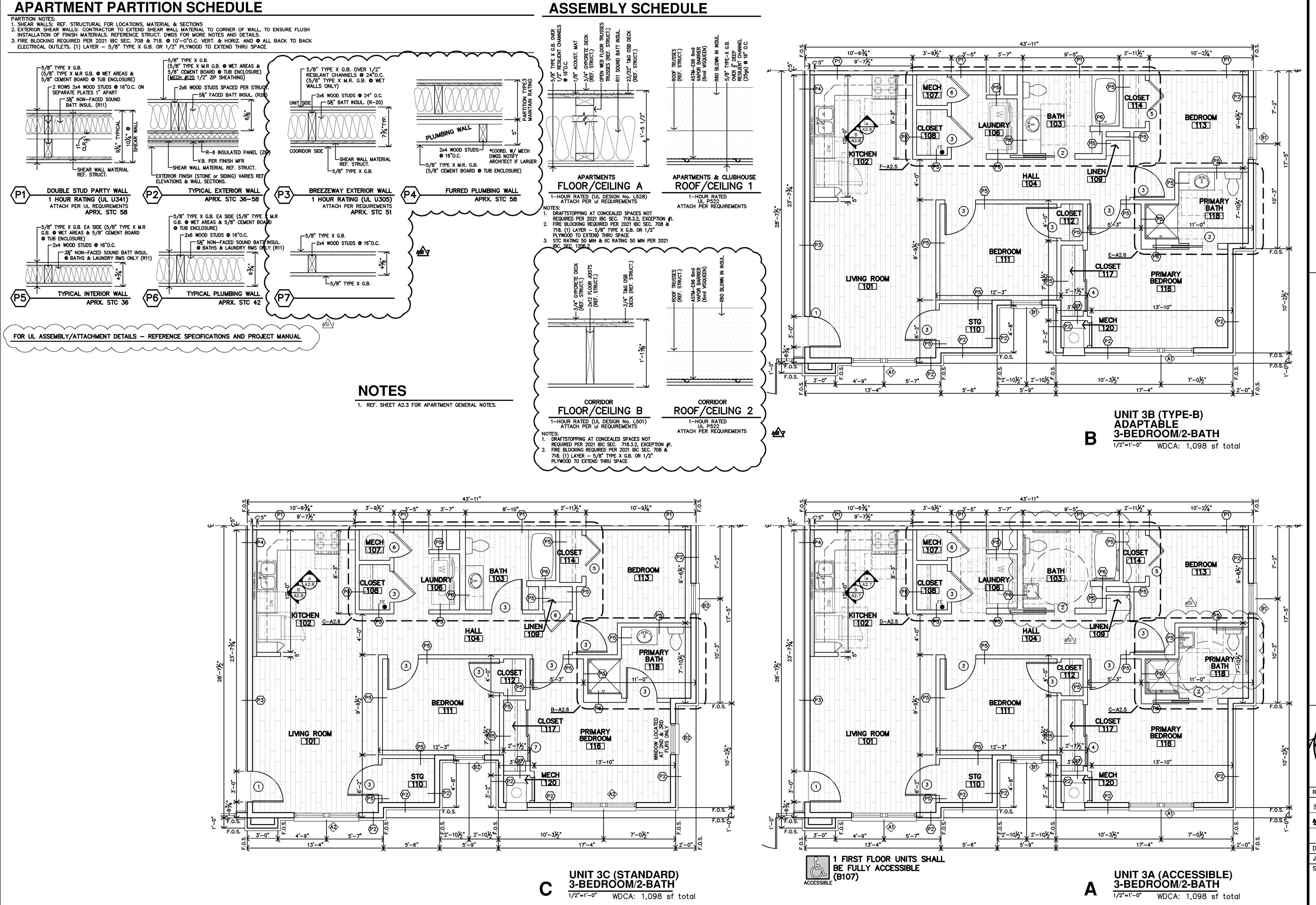




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REVISION: 9-27-2024

7-17-2024 22-3262 SHEET NO .:



esGillamRenz
1881 Main Street, Suite 301
Kansas City, MO 64108

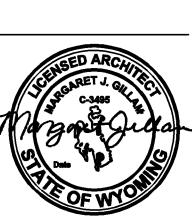
730 N. N Salina, K 785.827

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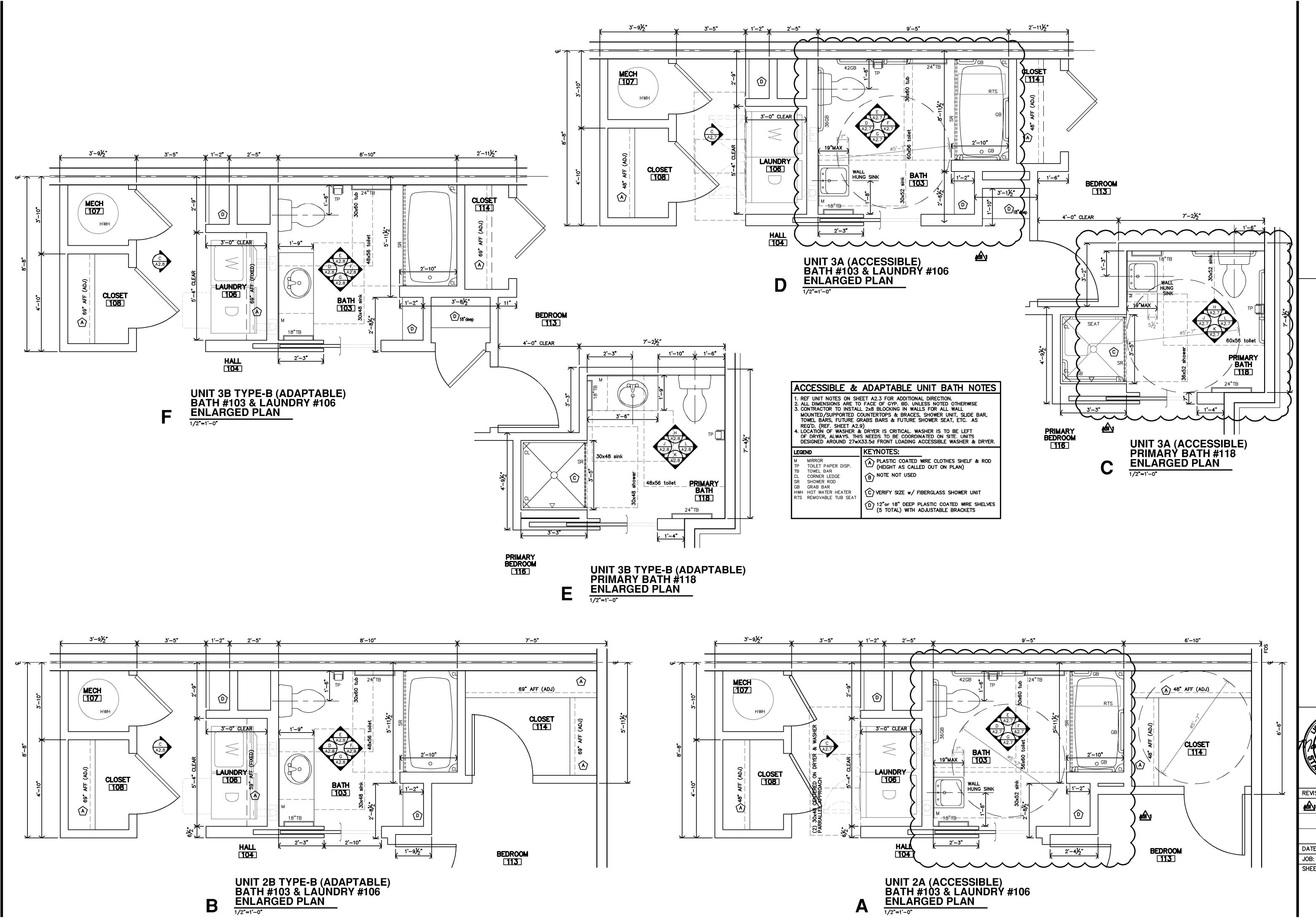


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REVISION:
9-27-2024
4-15-2025

DATE: 7–17–2024 JOB: 22–3262

SHEET NO.:



JonesGIII8
730 N. Ninth 1881
Salina, KS 67401
K 785.827.0386

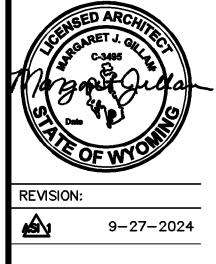
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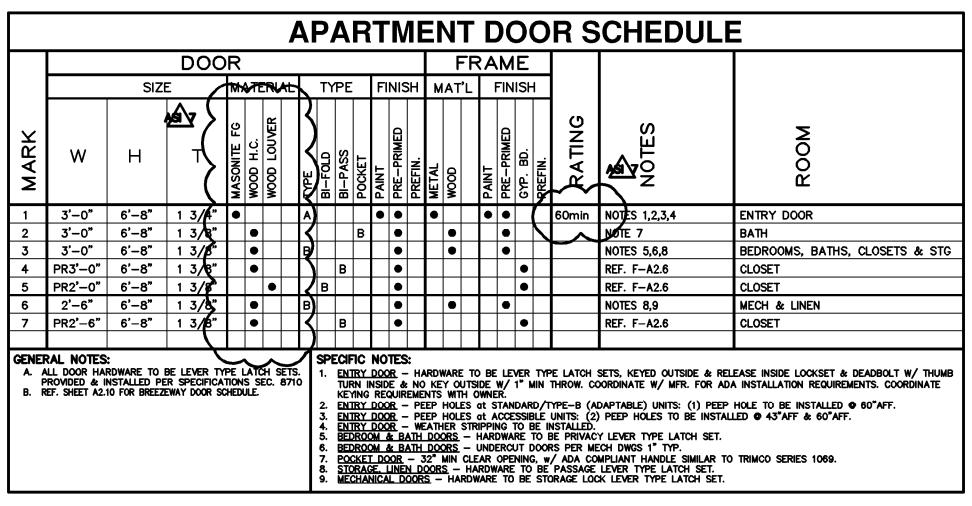
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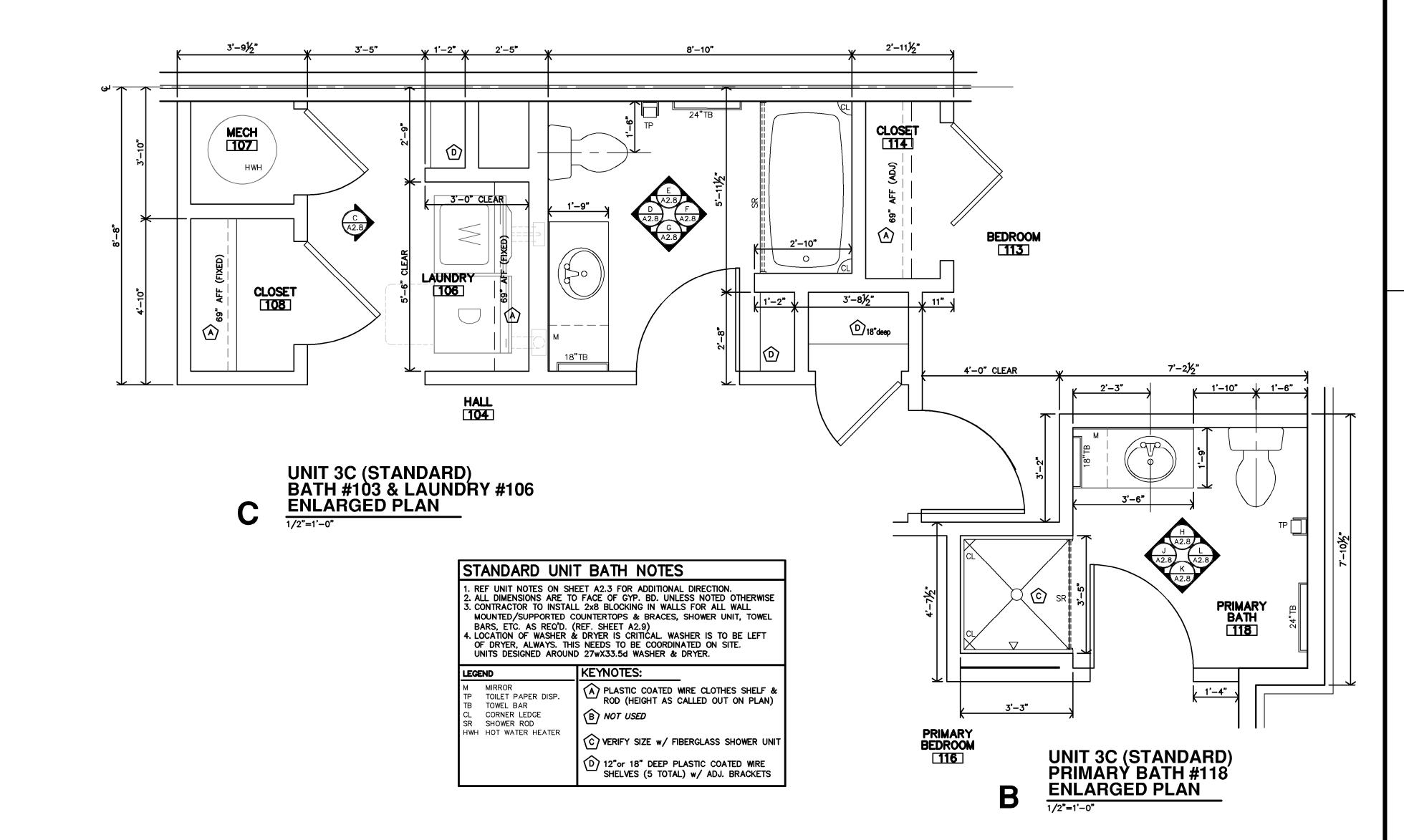
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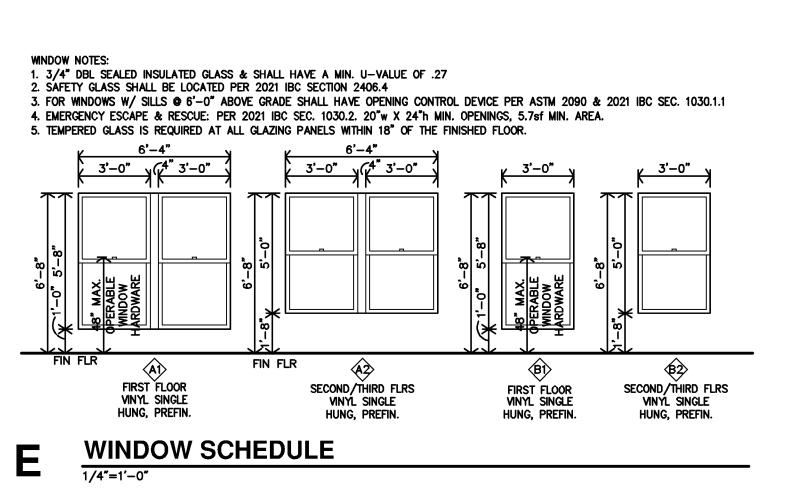
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JOB:	22-3262	۵

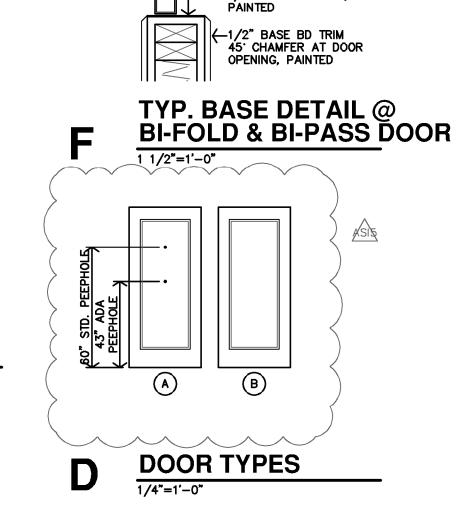
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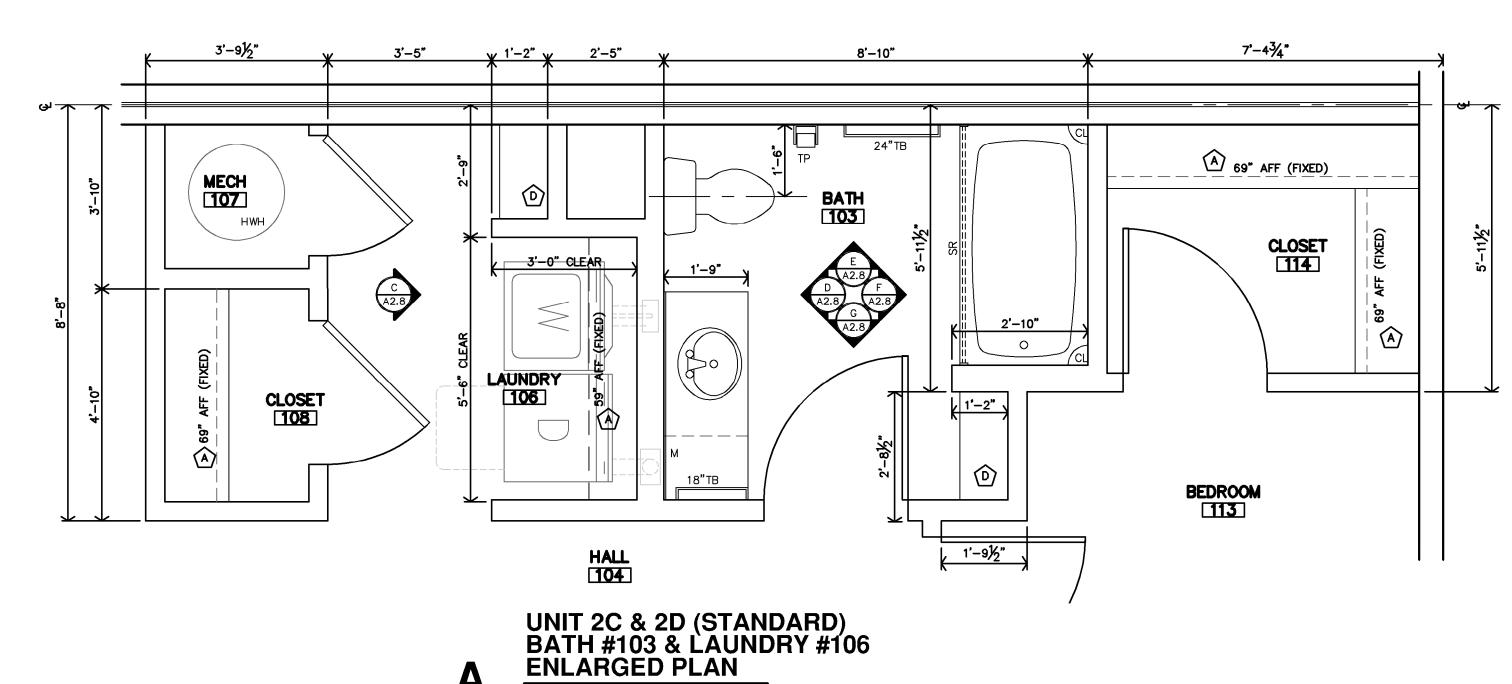






---DOOR PER SCH.

-1/8" BASE BD TRIM,



REVISION: 3-5-2025

7-17-2024 22-3262 C JOB: SHEET NO.:

**A2.7** 

THE

NOTE: 2x8 BLK'G NOT SHOWN FOR CLARITY. NOTE: 2x8 BLK'G NOT SHOWN FOR CLARITY. NOTE: BLK'G NOT SHOWN FOR CLARITY. NOTE: 2x8 BLK'G NOT SHOWN FOR CLARITY. NOTE: 2x8 BLK'G NOT SHOWN FOR CLARITY UNIT 3A BATH #118 INTERIOR ELEVATION UNIT 3A
BATH #118
INTERIOR ELEVATION UNIT 2A & 3A BATH #103 INTERIOR ELEVATION UNIT 3A BATH #118 INTERIOR ELEVATION UNIT 3A BATH #118 INTERIOR ELEVATION

NOTE: 2x8 BLK'G NOT SHOWN FOR CLARITY. ±2'-1½"F.V. UNIT 2A & 3A BATH #103 INTERIOR ELEVATION

UNIT 2A & 3A BATH #103 INTERIOR ELEVATION

NOTE: 2x8 BLK'G NOT SHOWN FOR CLARITY.

UNIT 2A & 3A BATH #103 INTERIOR ELEVATION

NOTE: 2x8 BLK'G NOT 1'-6" NOTE: 2x8 BLK'G NOT NOTE: 2x8 BLK'G NOTE

UNIT 2A & 3A LAUNDRY #106 INTERIOR ELEVATION

NOTE: 2x8 BLK'G NOT SHOWN FOR CLARITY.

NO SHELVING ABOVE WASHER & DRYER & NO DOORS.

, WASHER DRYER

1"—) DIVIDER

UNIT 2A & 3A
KITCHEN #102
CASEWORK ELEVATION
3/8"=1'-0"

12'-0" DIVIDER

9'-71/2"

UNIT 2A & 3A
KITCHEN #102
CASEWORK ELEVATION
3/8"=1'-0"

B

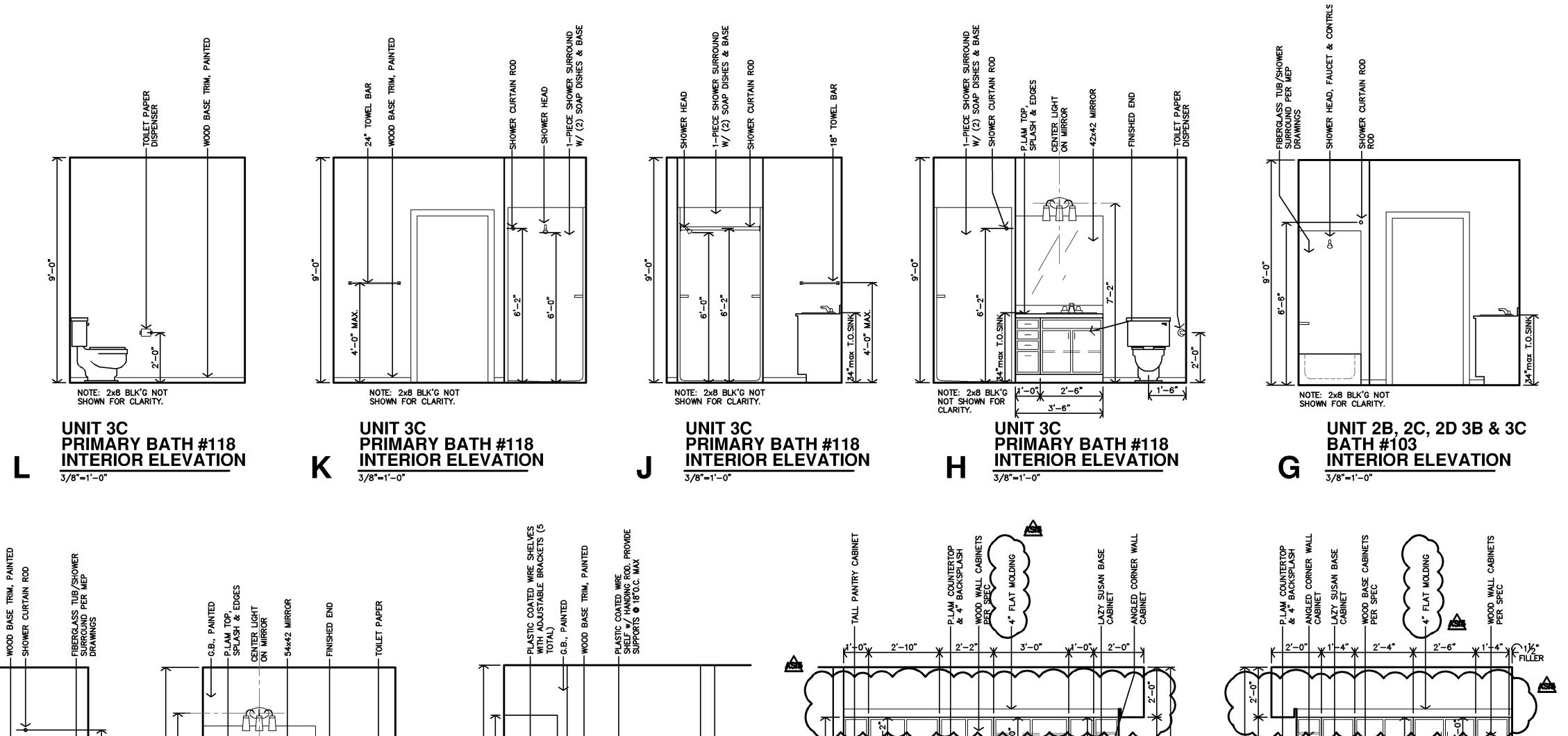
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2'-8"

UNIT 2B, 2C, 2D 3B & 3C KITCHEN #102 CASEWORK ELEVATION

DATE: 7-17-2024 22-3262 C SHEET NO.:

**A2.8** 



UNIT 2B, 2C, 2D 3B & 3C BATH #103 INTERIOR ELEVATION

NOTE: 2x8 BLK'G NOT SHOWN FOR CLARITY.

UNIT 2B, 2C, 2D 3B & 3C BATH #103 INTERIOR ELEVATION

NOTE: 2x8 BLK'G NOT SHOWN FOR CLARITY.

UNIT 2B, 2C, 2D 3B & 3C BATH #103 INTERIOR ELEVATION

NOTE: 2x8 BLK'G NOT SHOWN FOR CLARITY.

WASHER

5'-4" CLEAR

NOTE: 2x8 BLK'G KNOT SHOWN FOR CLARITY.

UNIT 2B, 2C, 2D 3B & 3C LAUNDRY #106 INTERIOR ELEVATION

DRYER

B

UNIT 2B, 2C, 2D 3B & 3C KITCHEN #102 CASEWORK ELEVATION

-COUNTERTOP & BACKSPLASH W/

**UNIT 2A & 3A** 

**CASEWORK SECTION** 

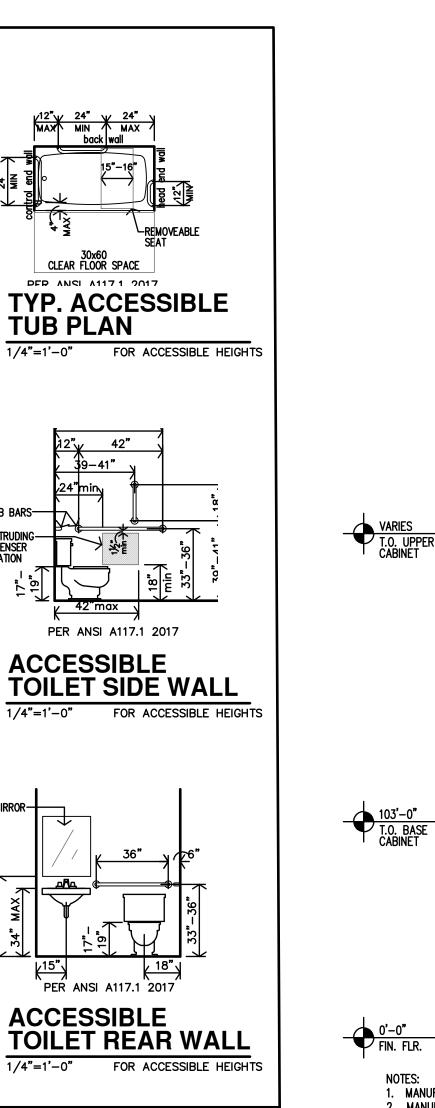
( 3/4"x1 1/2" STILES & RAILS

3/4"x3" CENTER STILE END PANEL: 1/2" PREMIUM PARTICLE BD

HINGES: CONCEALED, SELF CLOSING, 110° OPENING

DATE: 7-17-2024 22-3262 SHEET NO .:

**A2.9** 



UNIT 2B, 2C, 2D, 3B & 3C CASEWORK SECTION

30x60 CLEAR FLOOR SPACE

DFR ANGI A1171 2017

**TUB PLAN** 

@ ADAPTABLE UNITS GC TO INSTALL BLOCKING FOR <u>FUTURE</u> FIXED SEAT. SEAT TO BE

FOR ACCESSIBLE HEIGHTS

HAND SHOWER W/ 59"MIN HOSE & CONTROL W/

NONPOSITIVE SHUT-ÓFF MOUNTED ON SLIDE BAR or VERTICAL GRAB BAR

FOR ACCESSIBLE HEIGHTS

@ ADAPTABLE UNITS GC TO INSTALL BLOCKING FOR <u>FUTURE</u> FIXED SEAT. SEAT TO BE INSTALLED AT TENANT'S REQUEST

FOR ACCESSIBLE HEIGHTS

CONTROL AREA

PER ANSI A117.1 2017

PER ANSI A117.1 2017

**CONTROL WALL** 

36x52 CLEAR FLOOR SPACE

PER ANSI A117.1 2017

**ACCESSIBLE** 

**SHOWER PLAN** 

**ACCESSIBLE SHOWER** 

**BACK WALL** 

R

**ACCESSIBLE SHOWER** 

INSTALLED AT TENANT'S REQUEST.

PER ANSI A117.1 2017

**TUB HEAD WALL** 

\_\_\_VERTICAL GRAB BAR

4 24"MIN 424"MA

12"MAX

PER ANSI A117.1 2017

**ACCESSIBLE** 

PER ANSI A117.1 2017

ACCESSIBLE UNIT BATH DETAILS

**ACCESSIBLE** 

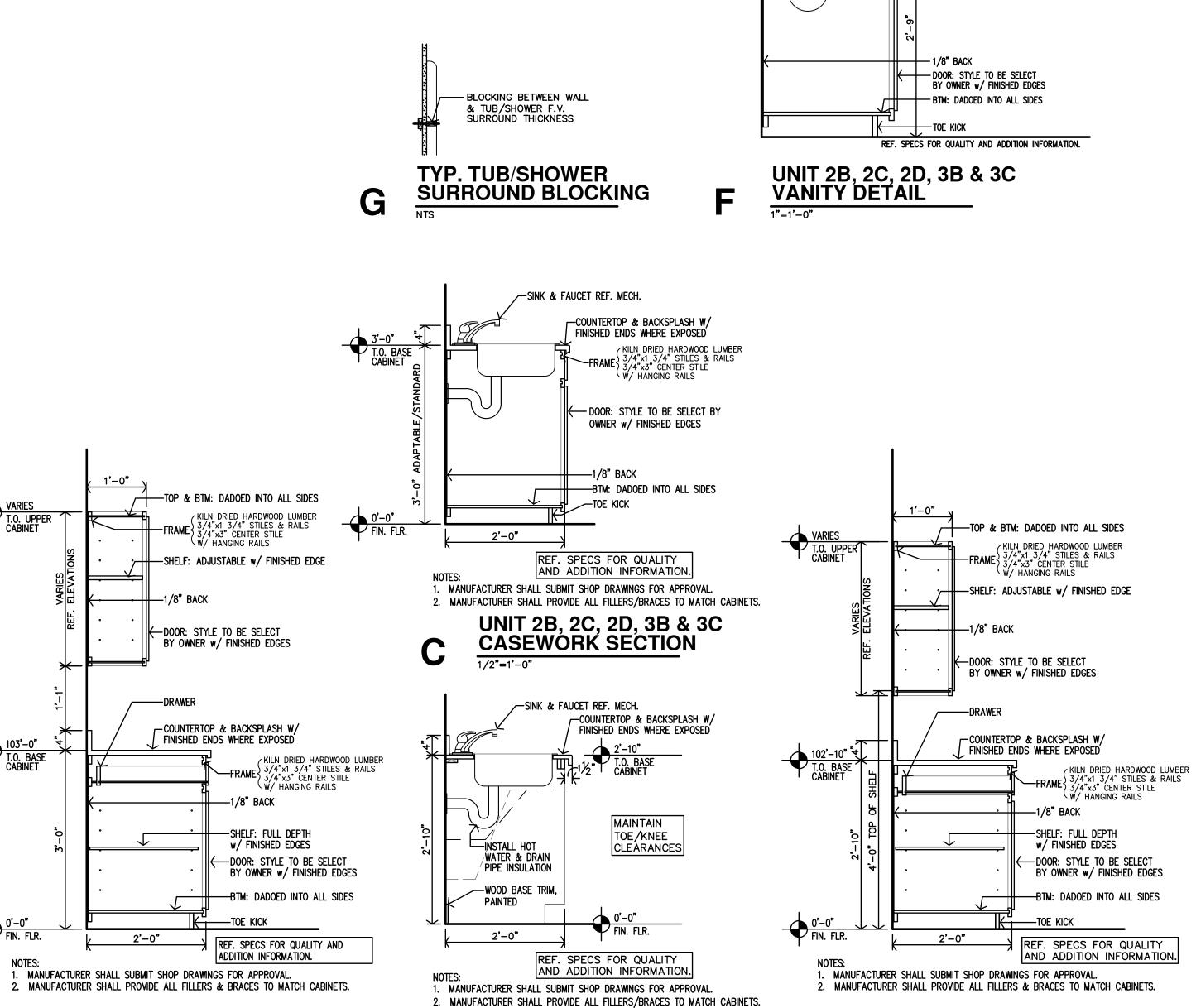
**TUB CONTROL WALL** 

**TUB BACK WALL** 

FOR ACCESSIBLE HEIGHTS

-HAND SHOWER W/ 59"MIN
HOSE & CONTROL W/
NONPOSITIVE SHUT-OFF
MOUNTED ON SLIDE BAR
SLIDE BAR SHALL BE
INSTALLED TO NOT INTERFERE
W/ GRAB BARS

**ACCESSIBLE** 



**UNIT 2A & 3A** 

**CASEWORK SECTION** 

5'-4"

7'-31/2"

16'-4"

BUILDING 2 CLUBHOUSE FLOOR PLAN

29'-7"

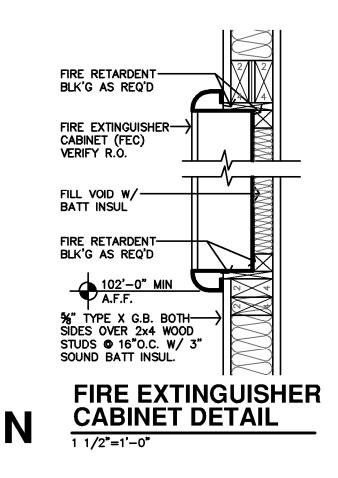
REVISION: 9-27-2024 12-3-2024 3-5-2025 7-17-2024 22-3262 SHEET NO .:

A2.10

	CLUBHOU	JS	3E	/ <b>E</b>	3F	RΕ	E	ZE	ΞV	V	4 Y	S		IN	T	Έ	R	IC	R	F	-11	VI:	Sł	1;	SCHE	DULE
							F	-IN	ISH	ES	<b>&amp;</b> c	IN	STI	RU	сті	ON:	s									
P1	LATEX ENAMEL			VT	٧	'INYL	TILE	E, Cl	EAN	1 &c	WAX			sv	,	SHEE	T VI	NYL			S	Т	SP	RAY	TEXTURE	
P2	EPOXY PAINT			C1	С	ARP	ET#	1						LVT	1	LUXL	JRY	VINY	L TII	LE	5	}	SM	ООТ	Н	
EP	EXTERIOR PAINT			C2	С	ARP	ET #	2						СТ	(	CER/	AMIC	TILE	:		1	•	TE)	KTUF	RED, LIGHT K	NOCKDOWN
NO.	DESCRIPTION		FLO	OOF	₹		ВА	SE		N.	WA	LL	E.'	WAI	LL	$ _{\mathbf{S}_{\bullet}}$	WAI	LL	W.	WA	LL	CE	ILIN	9v	HGT.	NOTES
		_	· - ·		<u> </u>						· · · ·									111						
		VINYL PLANK FLOORING	12x12 CERAMIC TILE	CARPET	SEALED CONC.	2 1/2" WOOD	CERAMIC TILE	COMPOSITE TRIM/SIDING	4" RUBBER BASE	5/8" TYPE X G.B.	48" HIGH WAINSCOT	COMPOSITE TRIM/SIDING	5/8" TYPE X G.B.	48" HIGH WAINSCOT	COMPOSITE TRIM/SIDING	5/8" TYPE X G.B.	48" HIGH WAINSCOT	COMPOSITE TRIM/SIDING	5/8" TYPE X G.B.	48" HIGH WAINSCOT	COMPOSITE TRIM/SIDING		5/8" TYPE X G.B.	COMPOSITE TRIM/SIDING		
CLL	JBHOUSE																									
C01	COMMUNITY ROOM	LVT				P1																	ST		9'-0"	
C02	OFFICE			C1		P1				7			P1/T			P1 <sub>T</sub>			P1/T				ST		9'-0"	
C03	NOT USED																									
C04	MECH/STOR.				•				RB	P1			P1			P1			P1				P1		9'-0"	
C05	MEN		CT				СТ			P <b>1</b> /T	СТ			CT		P/ <sub>T</sub>	CT		P1/T	CT			ST		9'-0"	1.
C06	WOMEN		СТ				СТ			PI	СТ		P1/	CT		PI	CT		PI	CT			ST		9'-0"	1.
C02/	HALL	L∕∕T	<b>\</b>	<b>/</b>		₽ſ	<b>\</b>			Pγ			T						<b>?</b>			>	ST		9'-0"	
C08	STORAGE				•				RB				P1			P1			P1				P1		9'-0"	
C09	FITNESS CENTER	LVT				P1				P1/T			P1/T			PIT			PIT				ST		9'-0"	
<b>∕</b> 610∕	KITCHETTE	IVI				/P.1	$\overline{}$			深	$\nearrow$		PIA		>		$\wedge$	$\overline{}$			$\rangle$	$\langle$	ST	$\setminus$	9'-0"\\	1^
BRE	EZEWAYS																									
A107	MECHANICAL				•				RB	욥			E			EΡ			ΕP				ΕP		9'-0"	
A110	MECHANICAL				•				RB	£			EP			EP			EP				EP		9'-0"	
B109	MECHANICAL				•				RB	욥			EΡ			EΡ			ΕP				ΕP		9'-0"	
B112	MECHANICAL				•				RB	ΕP			EΡ			EP			£				EΡ		9'-0"	
A108	BREEZEWAY				•			EP				ΕP			EP			ΕP			ΕP			ΕP	9'-0"	
A208	BREEZEWAY	$L^{-}$			•			ΕP				ΕP			ΕP			EP			ΕP			ΕP	9'-0"	
A308	BREEZEWAY				•			ΕP				ΕP			ΕP			EP			EP			EP	9'-0"	
A109	BREEZEWAY				•			ΕP				EΡ			EΡ			EΡ			EΡ			EΡ	9'-0"	
A209	BREEZEWAY				•			EP				ΕP			EP			EP			EP			EP	9'-0"	
A309	BREEZEWAY				•			EP				ΕP			ΕP			EP			EP			ΕP	9'-0"	
B110	BREEZEWAY				•			EΡ				EΡ			EΡ			EΡ			EΡ			EΡ	9'-0"	
B210	BREEZEWAY	Ī			•			EP				ΕP			ΕP			EΡ			ΕP			ΕP	9'-0"	
B310	BREEZEWAY	Ĺ			•			EP				ΕP			ΕP			EP			EΡ			ΕP	9'-0"	
B111	BREEZEWAY				•			ΕP				EΡ			EΡ			EΡ			EΡ			EΡ	9'-0"	
B211	BREEZEWAY				•			EP				ΕP			ΕP			EP			EΡ			EP	9'-0"	
B311	BREEZEWAY				•			EP				EΡ			EΡ			EP			EP			EP	9'-0"	
	E SPRINKLER (	CLC	DSE	TS.																						
					1		1				1									1					_1 _4	
<b>FIR</b> A111 B113	F.S. F.S.				•				RB RB			EP EP			EP EP			핑			명명			면 단	9'-0" 9'-0"	1.

			DOC	DR	1							FR	41	ΛE			
		SIZE		M/	ATE	RIAL	TYPE	FI	NISI	╗	MA	ΓERIA	L	FINISH	1		S
MARK	W	Н	Т	MTL. INSULATED	WOOD S.C.			PREFIN.	PAINT		WOOD			Z Z		DETAILS	REMARKS
CLU	BHOUSE		•			•	•										
1	3'-0"	6'-8"	1 3/4"	•			Α	•			•		1	•			1,2,5,6,7,8,9
2	3'-0"	6'-8"	1 3/4"	•			В	•			•		-				1,2,5,6,7,8,9
3	PR 3'-0"	6'-8"	1 3/4"	•			E	•			•		-	•			8,9
4	3'-0"	6'-8"	1 3/4"		•		D		•		•		-				2,4,9
5	3'-0"	6'-8"	1 3/4"		•		В		•		•		-				2,4,9
6	3'-0"	6'-8"	1 3/4"		•		D		•	4	•		4				3,9
BRE	EZEWAY:	S/FIRE		LE	IR R	ROC	MS			_							
11	3'-6"	6'-8"	1 3/4"	•			С	•		Т	•		Ţ	•			6,7,8,9
12	3'-0"	6'-8"	1 3/4"	•			Е	•		T	•		7	•			6,8,9
13	3'-6"	6'-8"	1 3/4"	•			Ε	•		1	•		7	•			8,9

NOTES: 1. INSTALL 5/8" TYPE X M.R G.B. ● ALL WET AREAS.



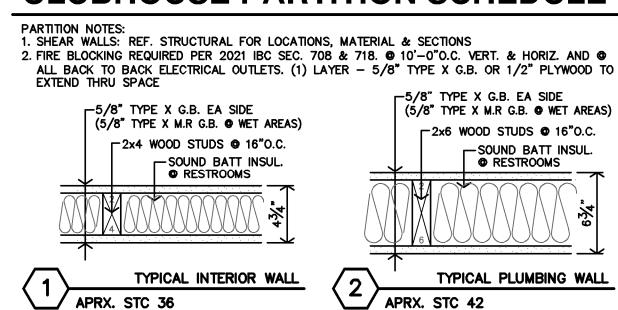
### **CLUBHOUSE GENERAL NOTES**

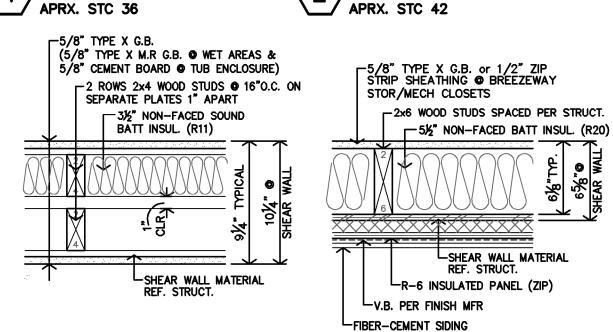
- 1. REF STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS. 2. TYPICAL GROUND FLOOR FINISH FLOOR ELEVATION IS REFERENCED AS 100'-0".
- CONTRACTOR SHALL VERIFY BUILDING ELEVATION W/ CIVIL DRAWINGS. REFERENCE SITE PLAN SHEET A1.1 FOR LOCATION & ORIENTATION OF BUILDING 4. CONTRACTOR SHALL PROVIDE FIREBLOCKING, ANCHOR BOLTS & ANY REQUIRED
- SHEAR WALL BLOCKING AS REQUIRED BY STRUCTURAL DRAWINGS. 5. FIRE EXTINGUISHERS SHALL BE INSTALLED & PROVIDED IN ACCORDANCE WITH NFPA 10 & 2021 IBC, SECTION 906.1 AND SPECIFICATIONS. LOCATED PER CFP
- 6. ALL PENETRATIONS THRU RATED WALLS AND/OR FLOOR ASSEMBLIES SHALL BE FIRESTOPPED PER APPROVED U.L. DESIGNS. REFERENCE SHEET A4.9 FOR FIRE PENETRATION ASSEMBLIES
- 7. B.O. HEADER 83" ABV. FIN. FLR. 8. KITCHENETTE AREA RECEPTACLES TO BE @ 44"max ABOVE FIN FLR. 9. ALL OPERABLE PARTS, (PER ADA SECTION 309) SHALL BE A MAX. OF 48" A.F.F.
- THIS INCLUDES OUTLETS, WINDOW LATCHES/LOCKS, ENVIRONMENTAL CONTROLS, LIGHT SWITCHES, ETC. 10. CONTRACTOR TO PROVIDE 2x8 BLOCKING IN WALLS FOR GRAB BARS, COUNTERTOPS,
- SUPPORTS, ETC.

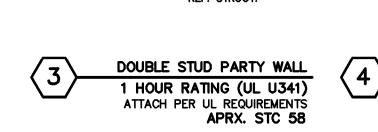
  11. SUBMIT VERIFICATION THAT ALL CONSTRUCTION MATERIAL WILL MEET <u>US\_EPA</u>
  CRITERIA PARTICULARLY MATERIALS THAT WILL BE OBTAINED FROM INTERNATIONAL
  SOURCES. ALSO PROVIDE VERIFICATION THAT THE CONSTRUCTION WILL NOT RESULT
- IN OR CONTAIN HAZARDOUS MATERIALS. 12. ALL DIMENSIONS ARE TO FACE OF GYP. BD. UNLESS NOTED OTHERWISE.
- 13. F.O.S. = FACE OF STUD

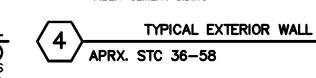
  14. FEC = FIRE EXTINGUISHER CABINET, REFERENCE DETAIL N-A2.10

### **CLUBHOUSE PARTITION SCHEDULE**





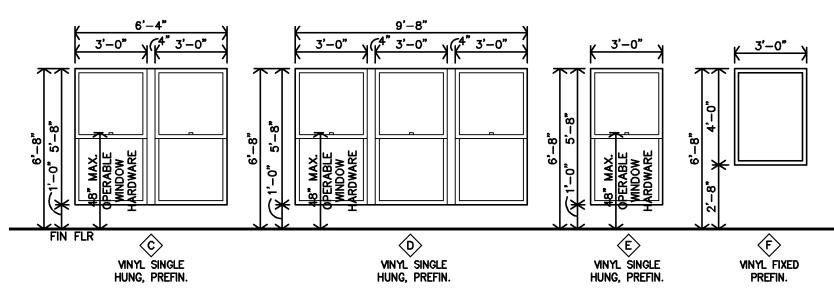




**ASSEMBLIES** 

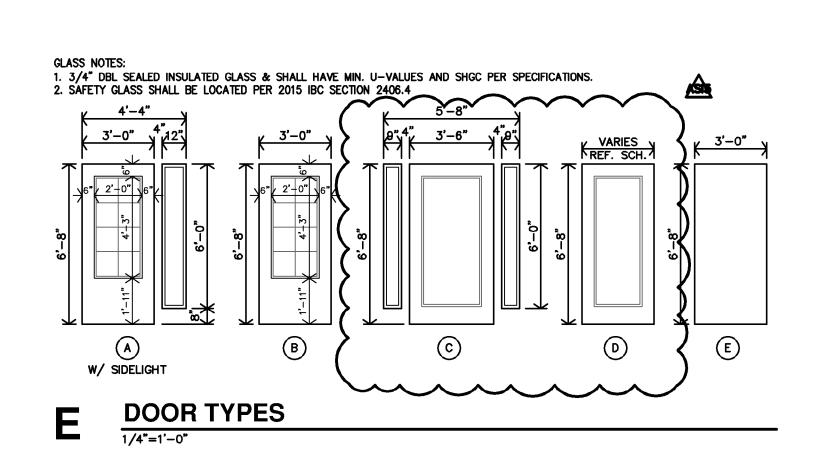
CLUBHOUSE/APARTMENTS

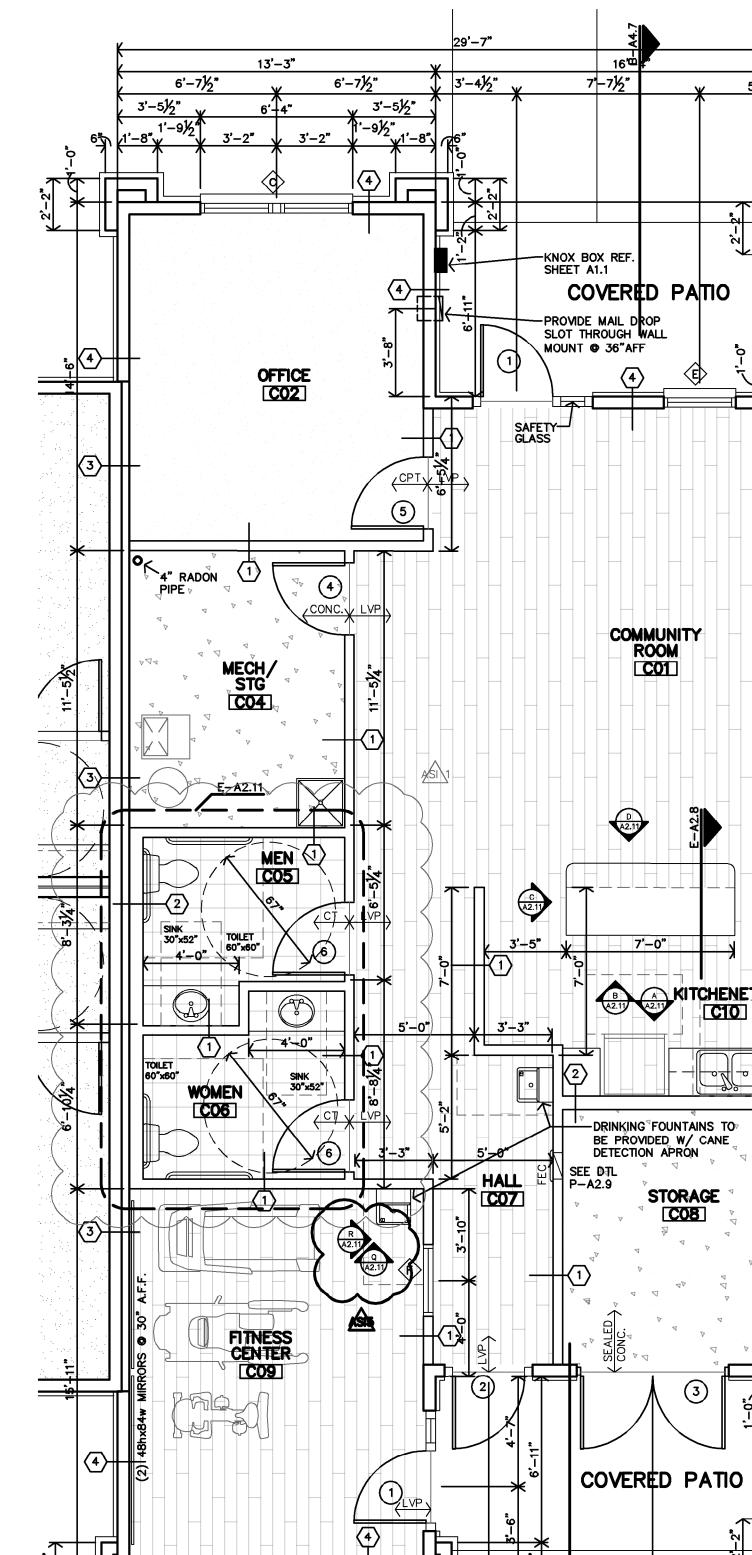
ROOF/CEILING 1

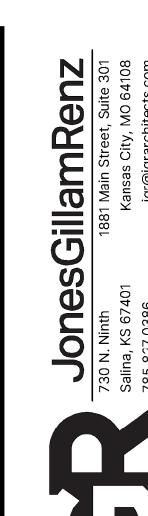


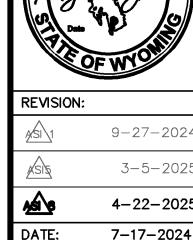
- WINDOW NOTES: 1. EXTERIOR GLASS: 3/4" DBL SEALED INSULATED GLASS & SHALL HAVE A MIN. U-VALUE OF .27.
  2. SAFETY GLASS SHALL BE LOCATED PER 2021 IBC SECTION 2406.4
- 3. INTERIOR GLASS: 1/4" SAFETY GLASS PER 2021 IBC SECTION 2406.4 4. EMERGENCY ESCAPE & RESCUE: PER 2021 IBC SEC. 1031. 20" x 24"h MIN. OPENINGS, 5.7sf MIN. AREA (ALSO REF. 1030.4)

### WINDOW SCHEDULE



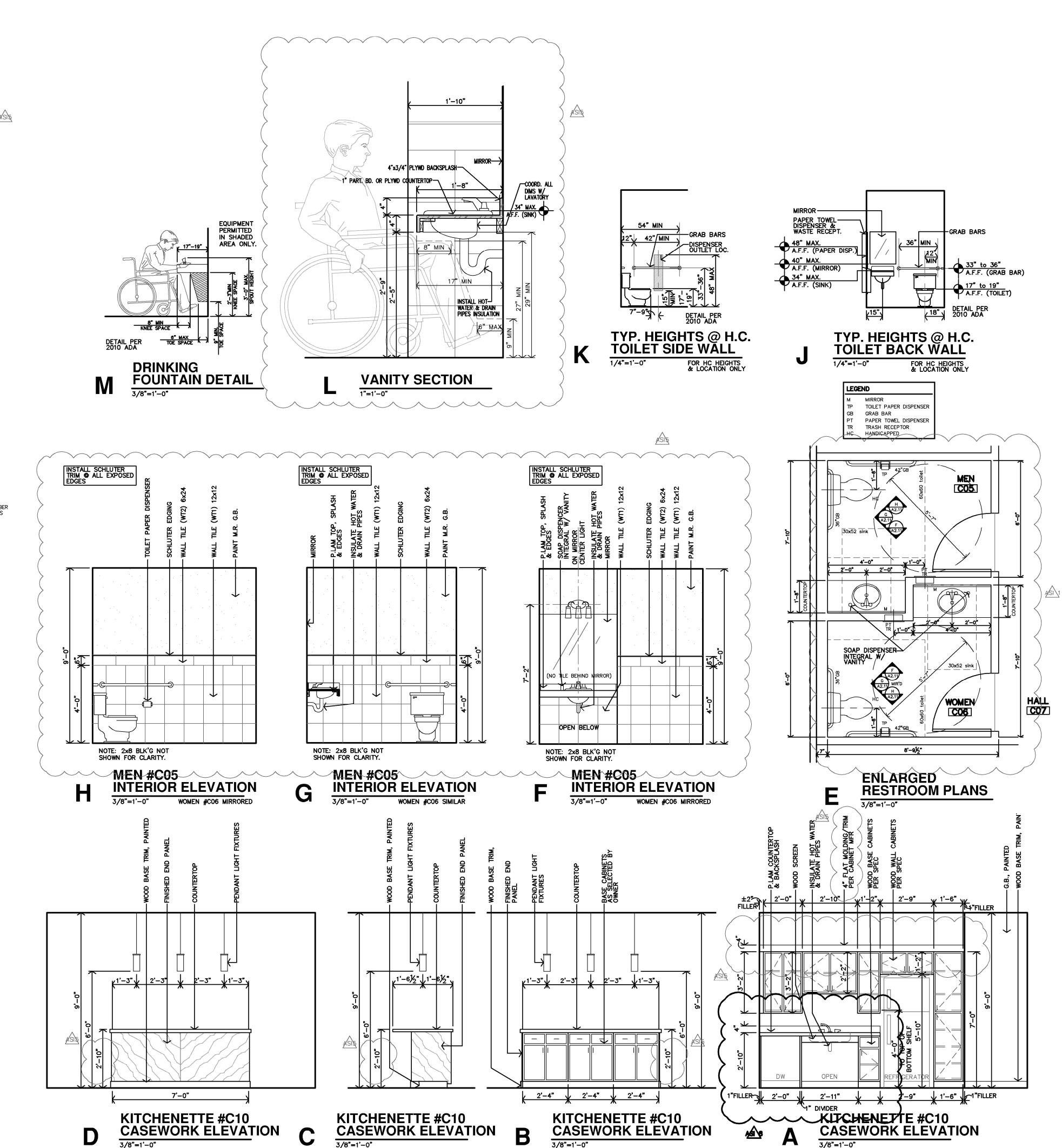


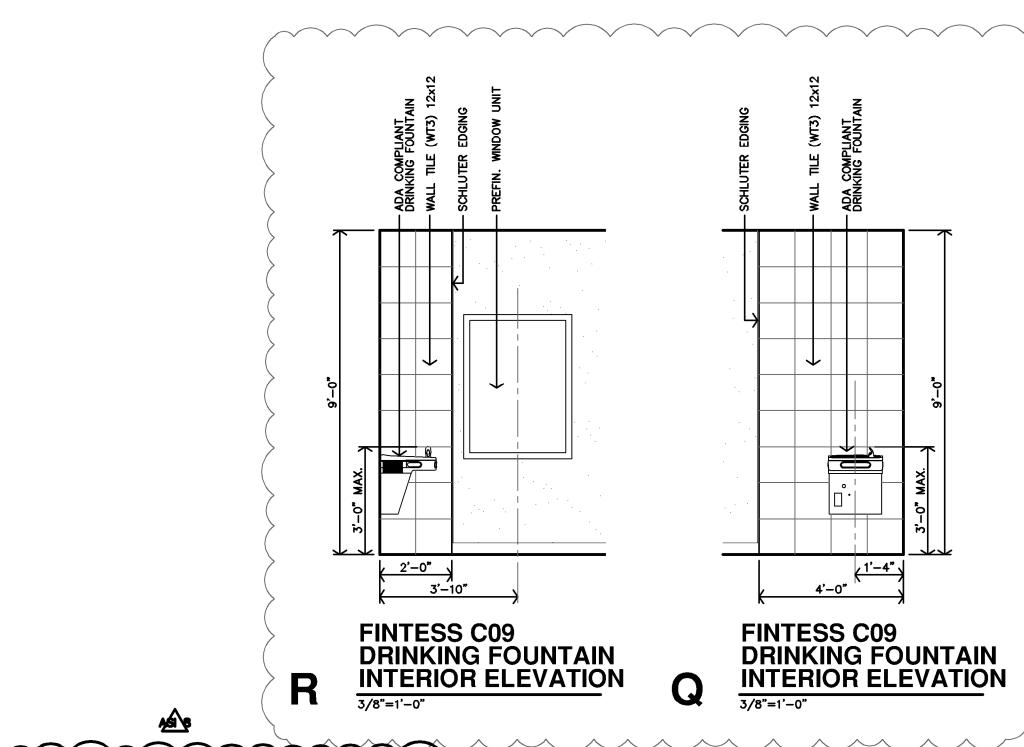


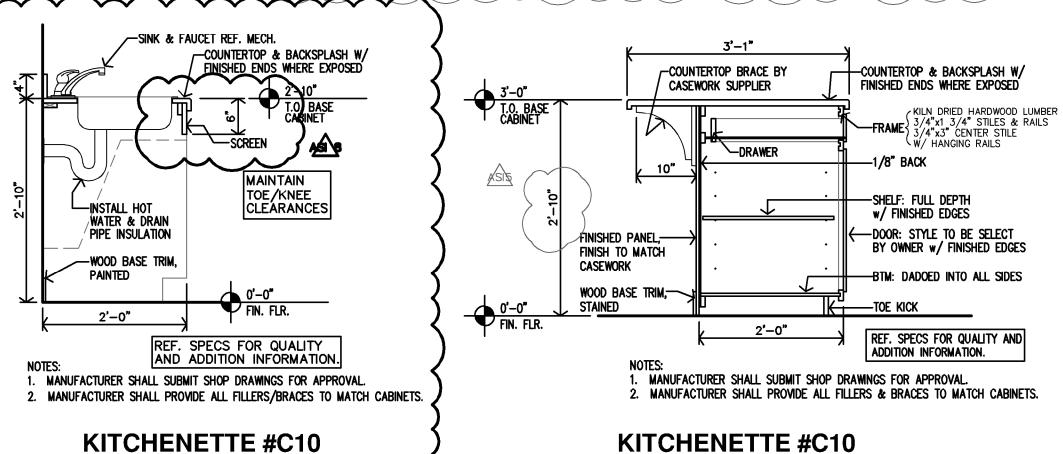


9-27-2024 3-5-2025 4-22-2025 DATE: 7-17-2024 JOB: 22-3262

SHEET NO.: **A2.11** 



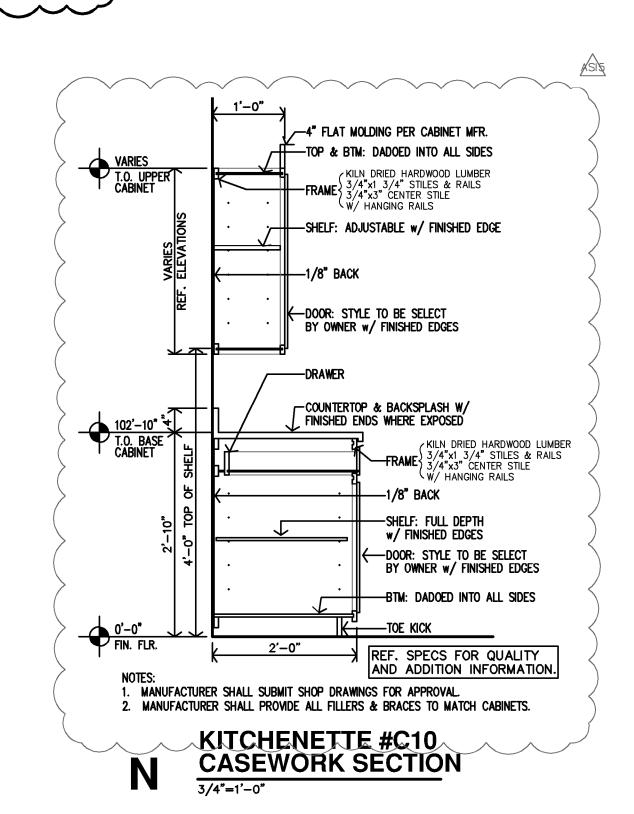


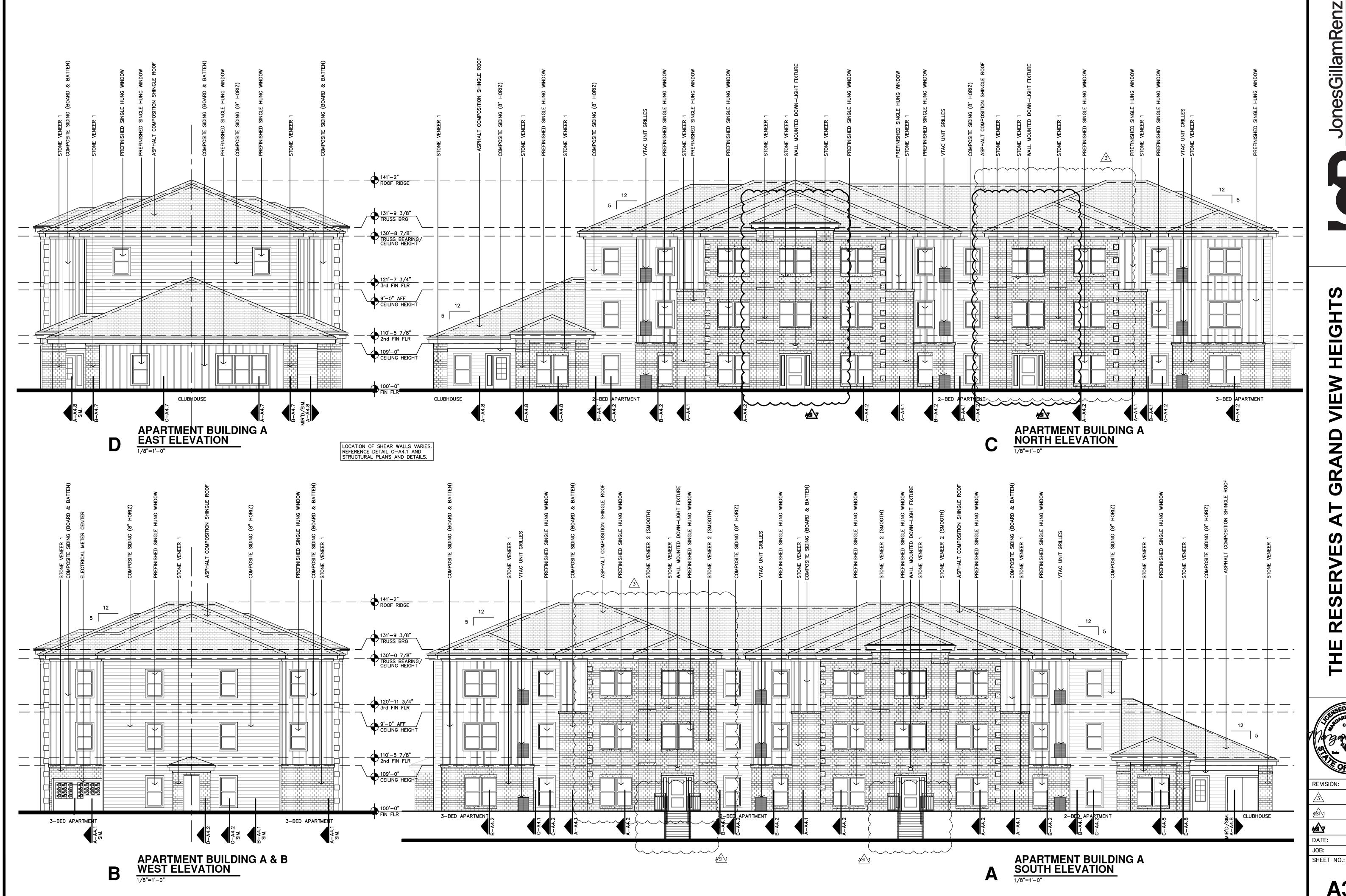


**CASEWORK SECTION** 

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VIEW S AT GRAPPE RESER

9-10-2024 9-27-2024 4-15-2025 7-17-2024 22-3262

**A3.1** 

**HEIGHTS** 

LOCATION OF SHEAR WALLS VARIES. REFERENCE DETAIL C—A4.1 AND STRUCTURAL PLANS AND DETAILS.

APARTMENT BUILDING B NORTH ELEVATION 1/8"=1'-0"

7-17-2024 DATE: 22-3262 SHEET NO.:

**A3.2** 

CAST STONE COLOR 2: ACCENT BANDS ON COLUMNS



CAST STONE COLOR 1: CAPS, WINDOW SILLS AND HEADS, CORNER QUOIN ACCENTS



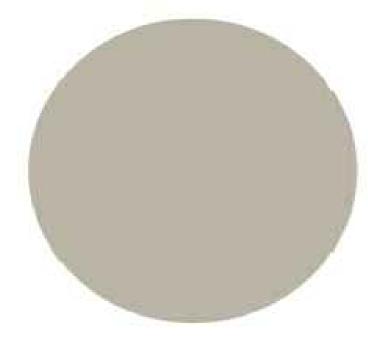
STONE VENEER 1

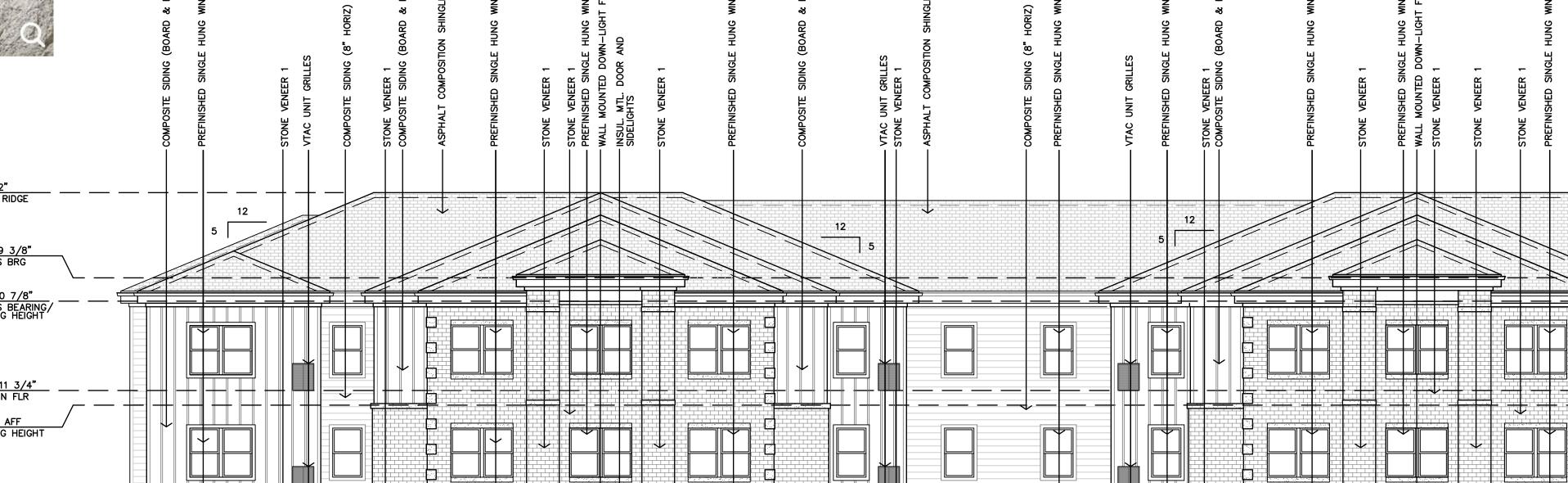


ASPHALT SHINGLES - WEATHER WOOD COLOR



PAINT COLOR 2: COMPOSITE SIDING (8" HORIZ)





141'-2"
ROOF RIDGE 130'-0 7/8"
TRUSS BEARING/ CEILING HEIGHT 120'-11 3/4" 3rd FIN FLR 9'-0" AFF
CEILING HEIGHT 110'-5 7/8" \_\_\_\_ 109'-0"
CEILING HEIGHT 100'-0" FIN FLR 3-BED APARTMENT 2-BED APARTMENT BED APARTMENT

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4-15-2025

7-17-2024 DATE: 22-3262 JOB: SHEET NO .:

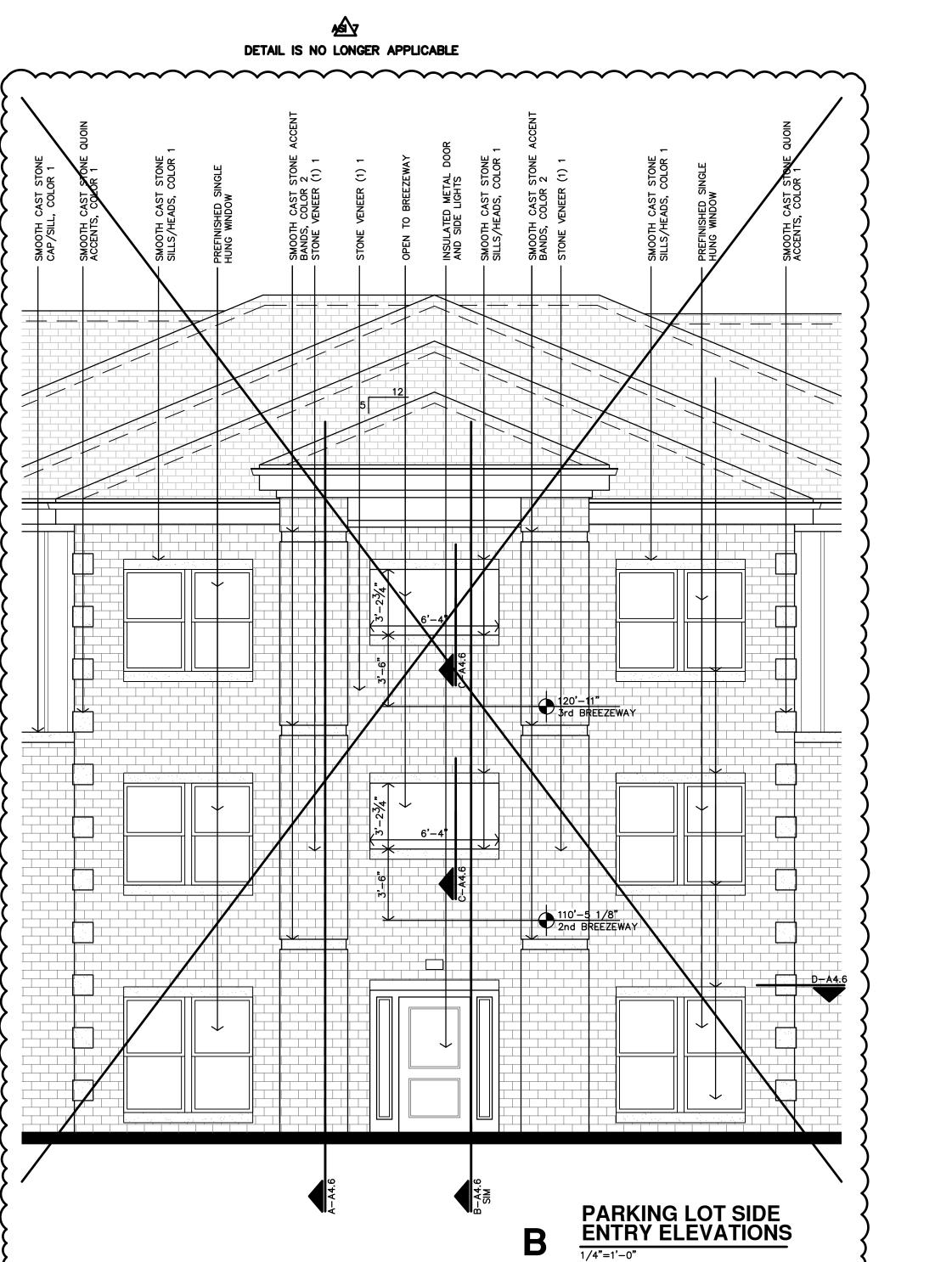
**A3.3** 

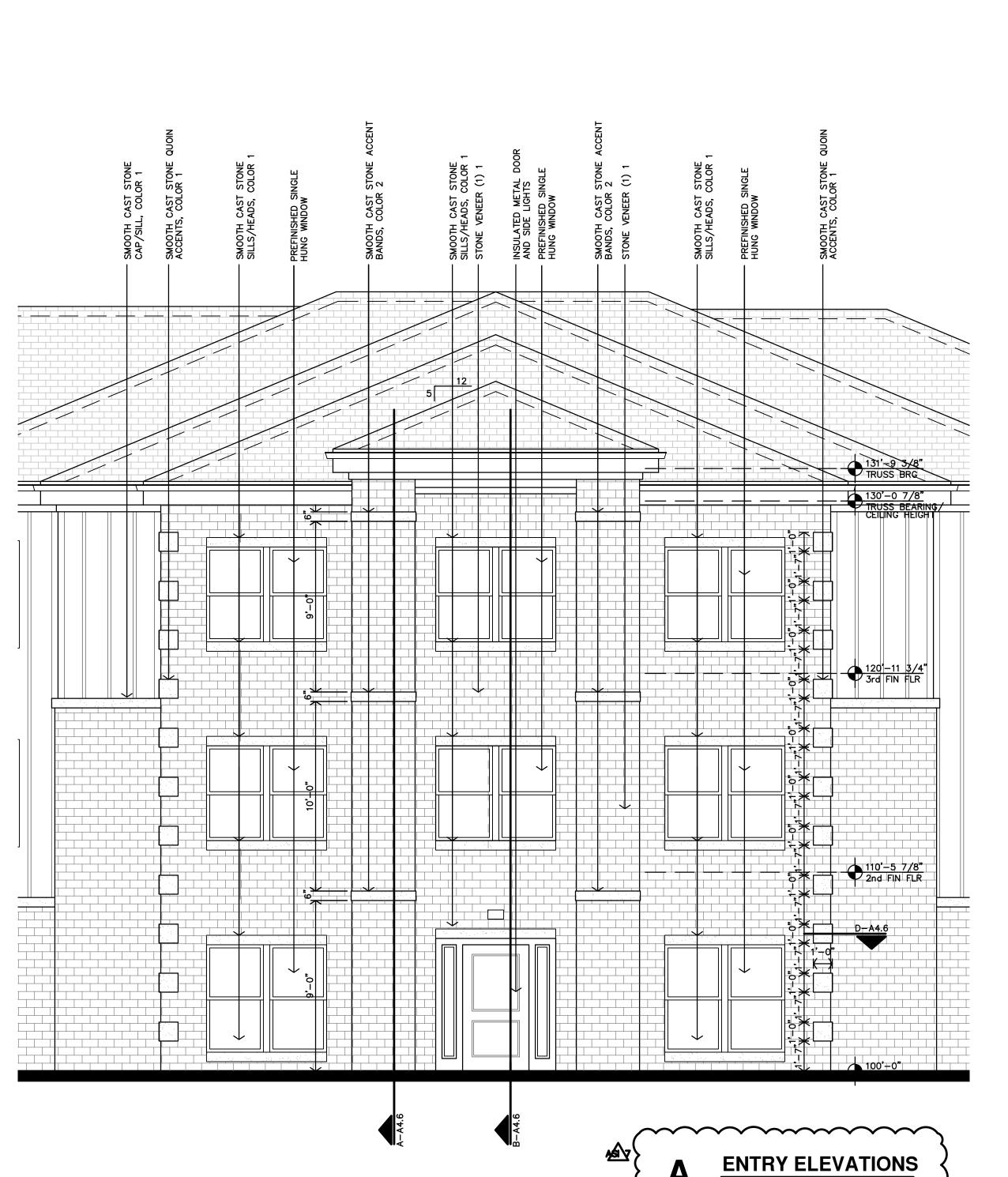
4-15-2025

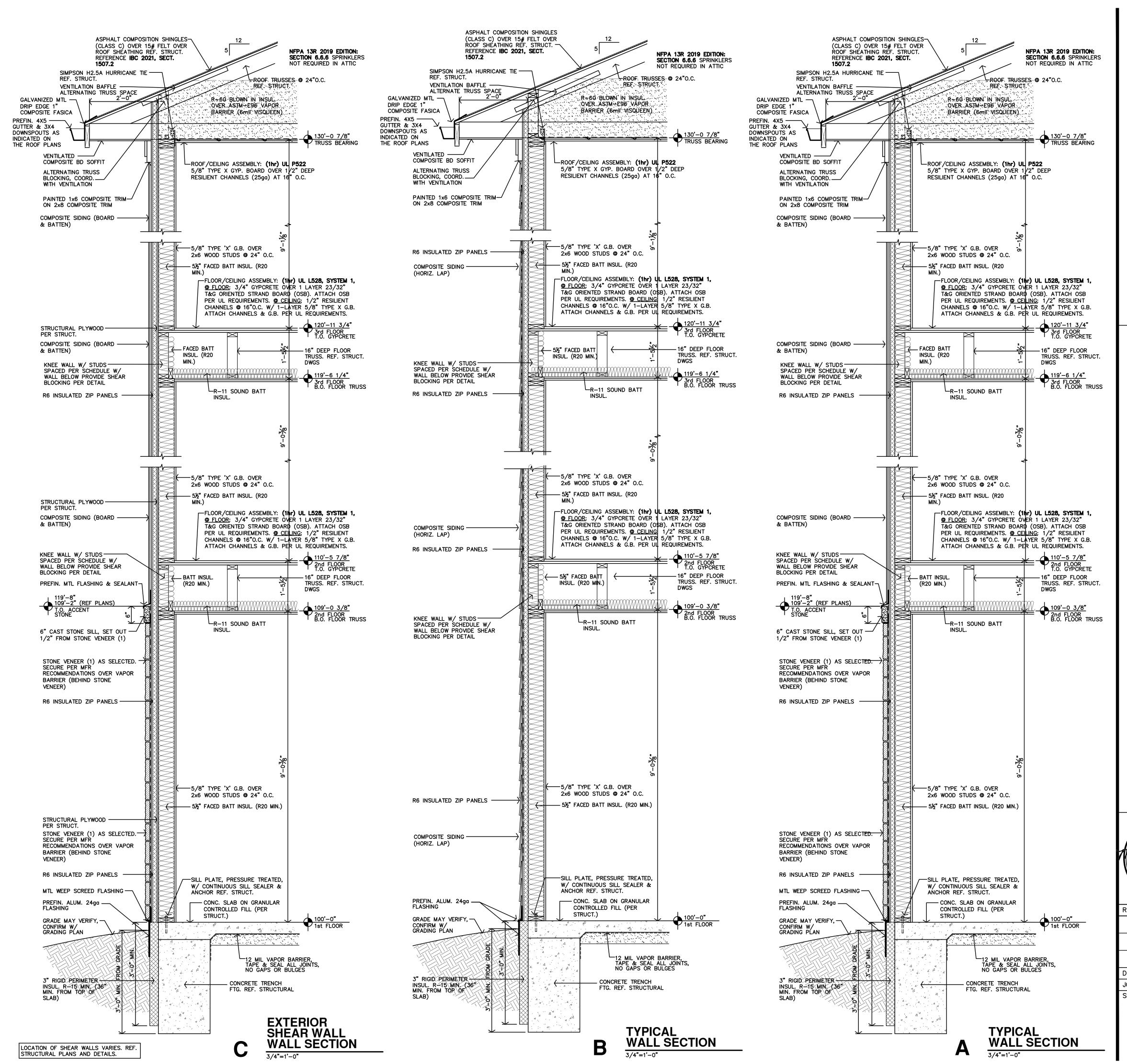
7-17-2024 DATE: 22-3262

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**A3.4** 





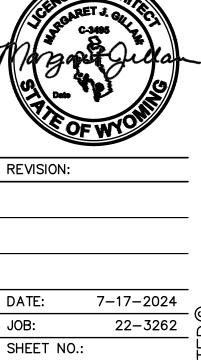


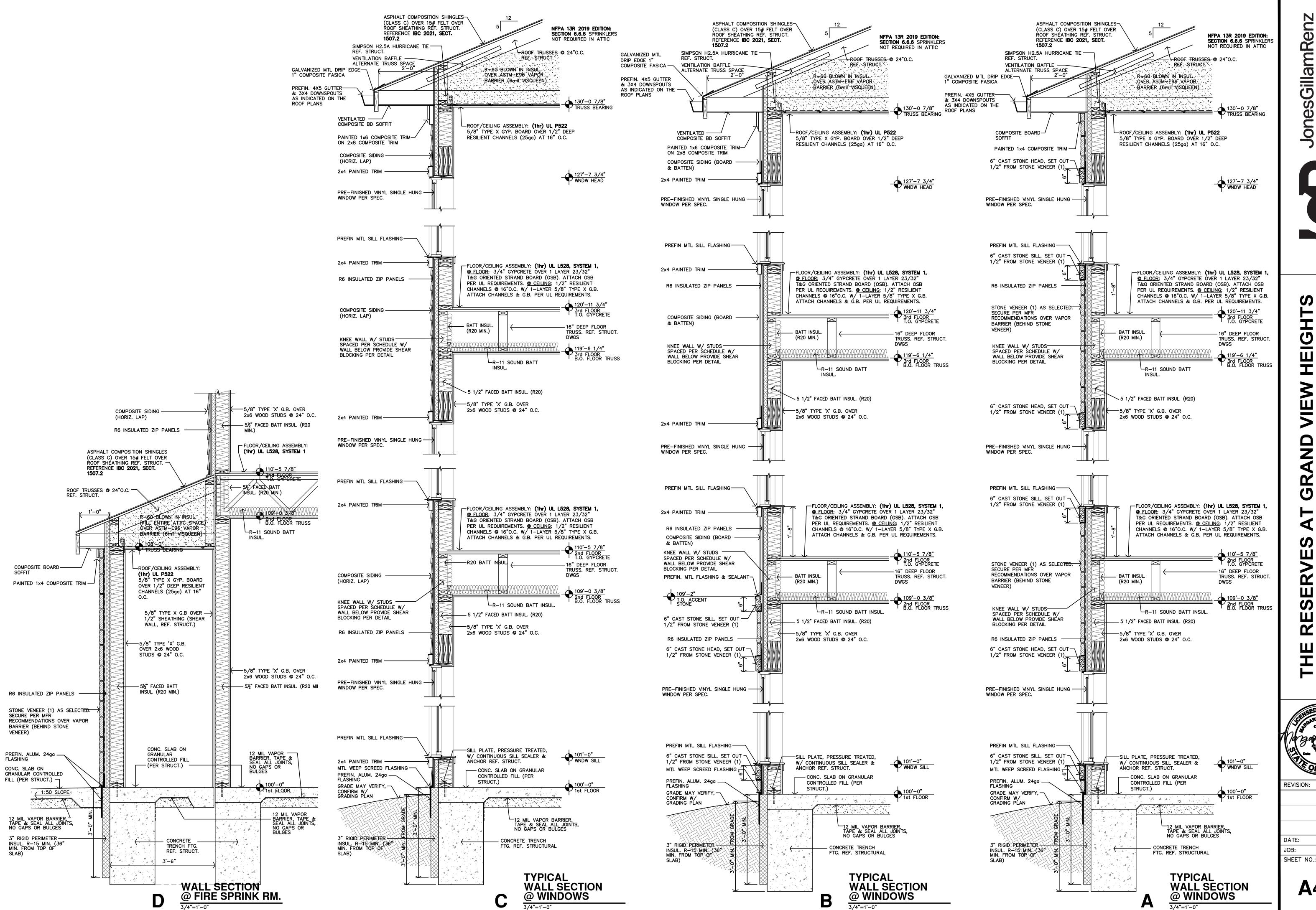
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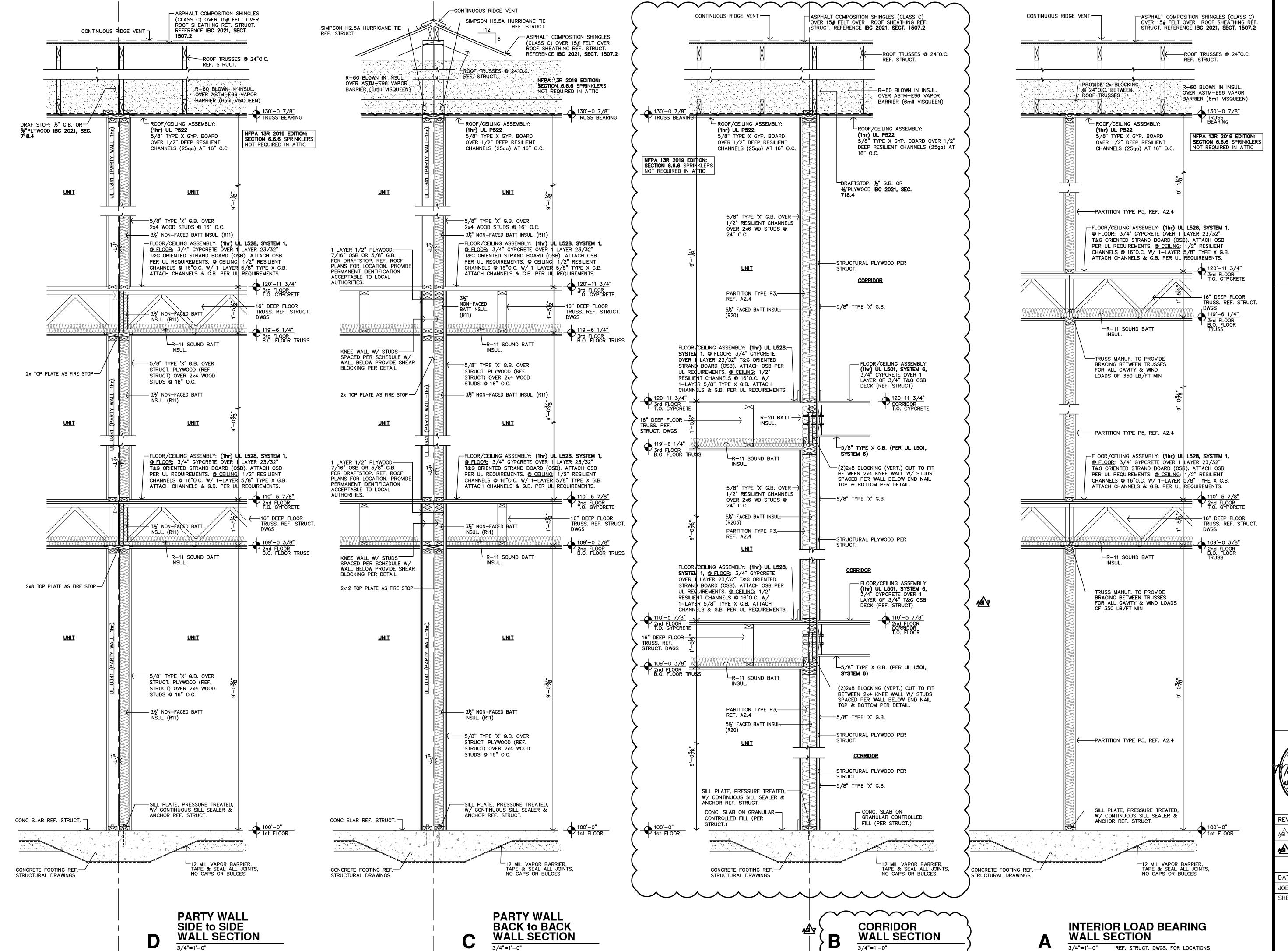
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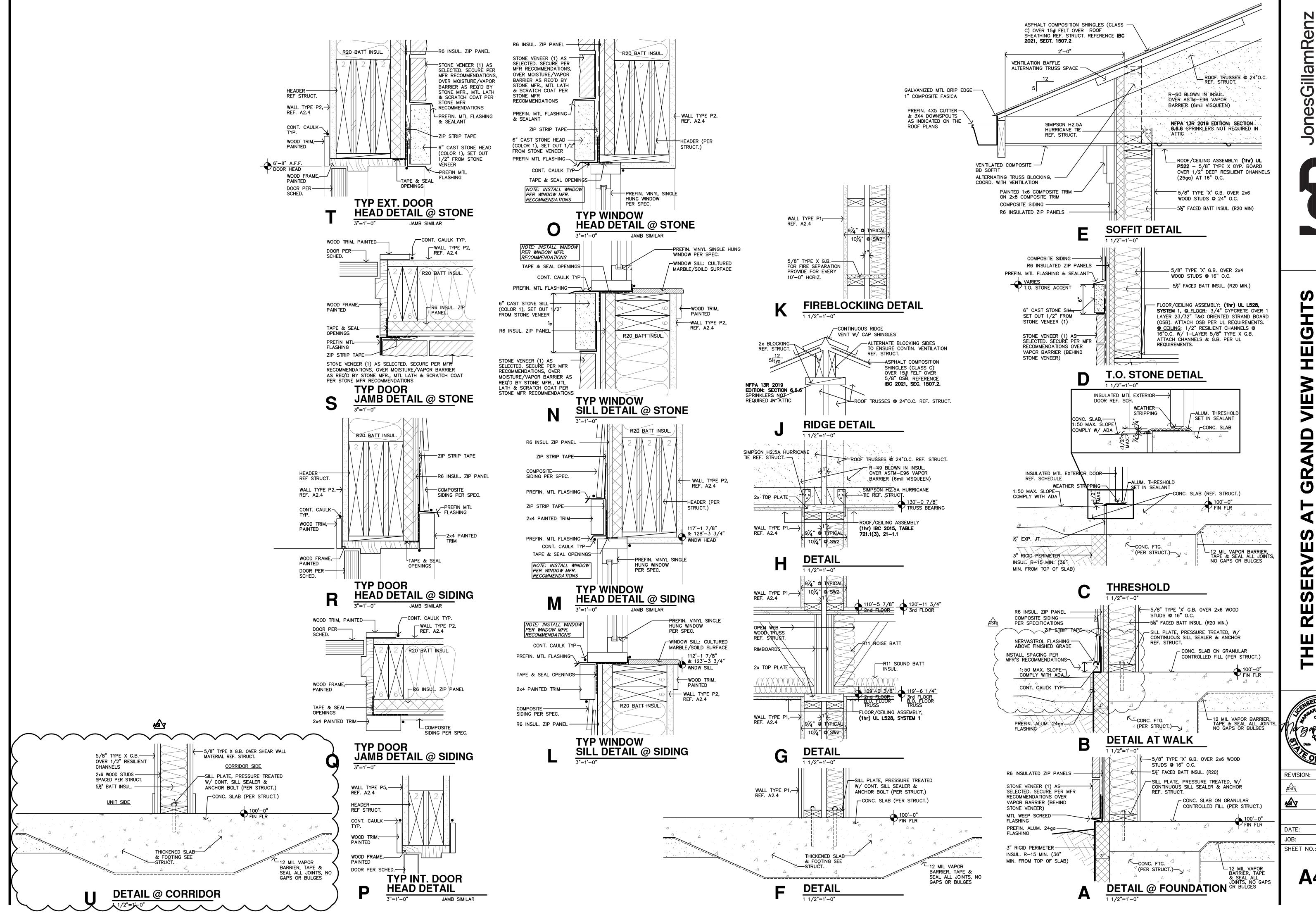
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**A4.3** 

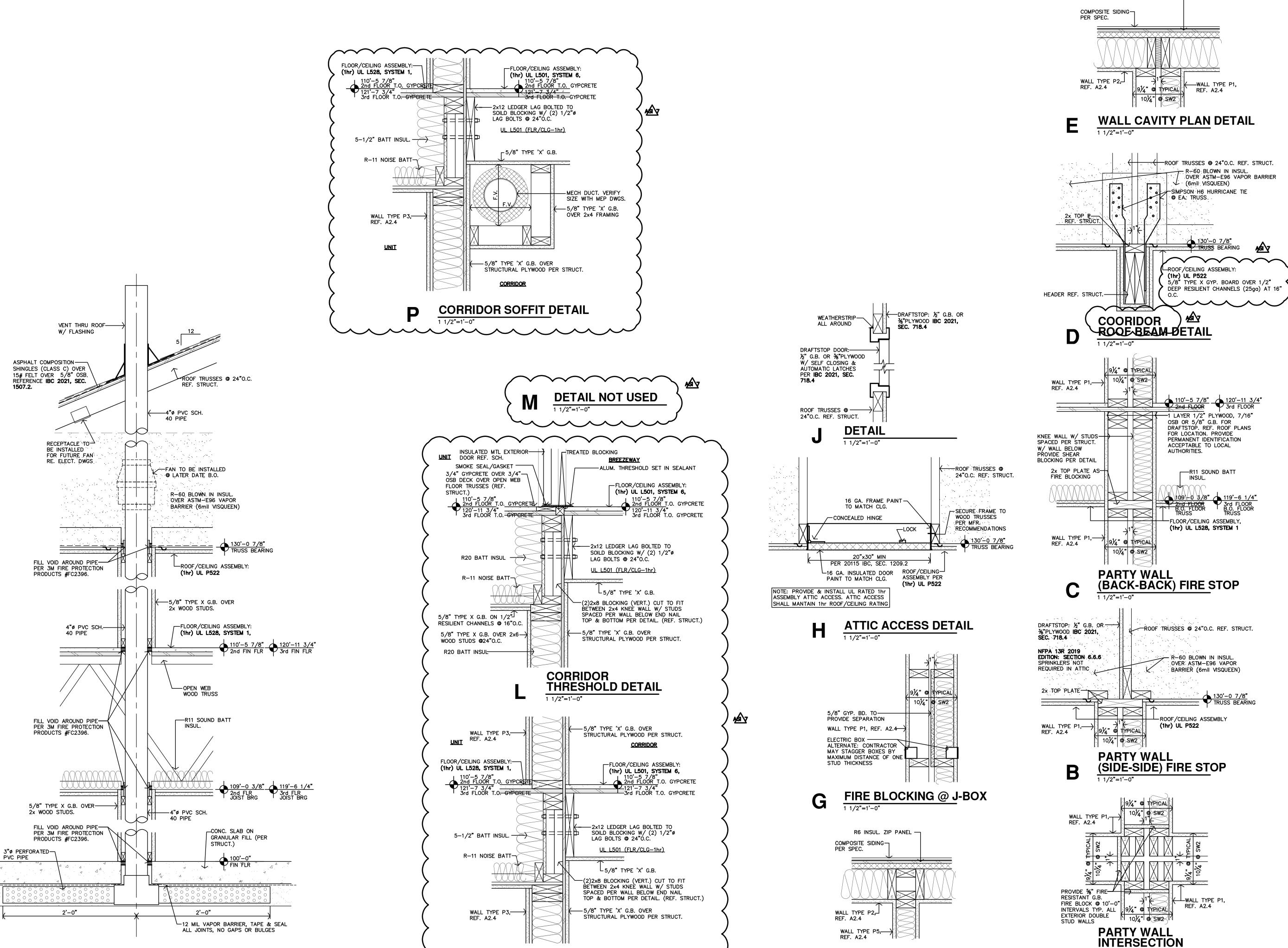


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**CORRIDOR DETAIL** 

**EXT. WALL DETAIL** 

PVC PIPE

**RADON PIPE DETAIL** 

WYOMING

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R6 INSUL. ZIP PANEL -

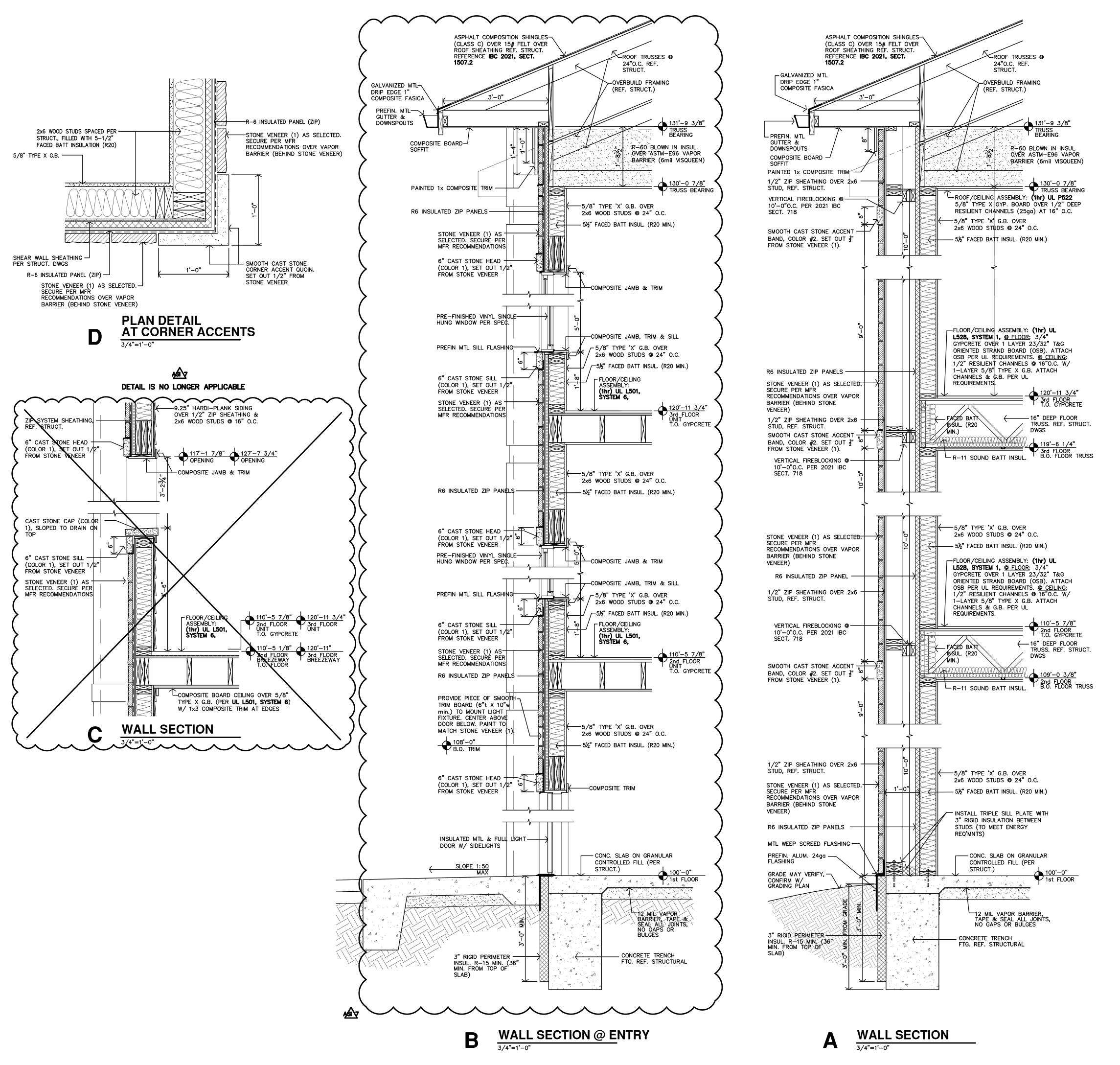
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A4.5

FIRE BLOCKING DETAIL



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REVISION:

4-15-2025

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**A4.6** 

ROOF TRUSSES @ 24"O.C.

106'-8"
WNDW HEAD

R+60 BLOWN IN INSUL. OVER ASTM-E96 VAPOR

ROOF/CEILING ASSEMBLY:

— HEADER REF. STRUCT.

(1hr) UL P522 5/8" TYPE X GYP. BOARD OVER 1/2" DEEP RESILIENT CHANNELS (25ga) AT 16" O.C.

—SILL PLATE, PRESSURE TREATED, W/ CONTINUOUS SILL SEALER &

— CONC. SLAB ON GRANULAR

—12 MIL VAPOR BARRIER, TAPE & SEAL ALL JOINTS, NO GAPS OR BULGES

CONCRETE TRENCH FTG. REF. STRUCTURAL

CONTROLLED FILL (PER

ANCHOR REF. STRUCT.

STRUCT.)

BARRIER (6mil VISQUEEN)

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**SECTION** 3/4"=1'-0"

ASPHALT COMPOSITION SHINGLES

(CLASS C) OVER 15# FELT OVER ROOF SHEATHING REF. STRUCT.

REFERENCE IBC 2021, SECT. 1507.2

SIMPSON H2.5A HURRICANE TIE — REF. STRUCT.

VENTILATION BAFFLE

ALTERNATING TRUSS SPACE
FOCE

2'-0"

GALVANIZED MTL DRIP EDGE—

1" COMPOSITE FASICA

COMPOSITE BOARD -

& BATTEN)

PAINTED 1x6 COMPOSITE TRIM—ON 2x8 COMPOSITE TRIM

PREFIN MTL SILL FLASHING ----

MTL WEEP SCREED FLASHING -

2×4 PAINTED TRIM ——

PREFIN. ALUM. 24ga — FLASHING

GRADE MAY VERIFY, -

3" RIGID PERIMETER INSUL. R-15 MIN. (36" MIN. FROM TOP OF SLAB)

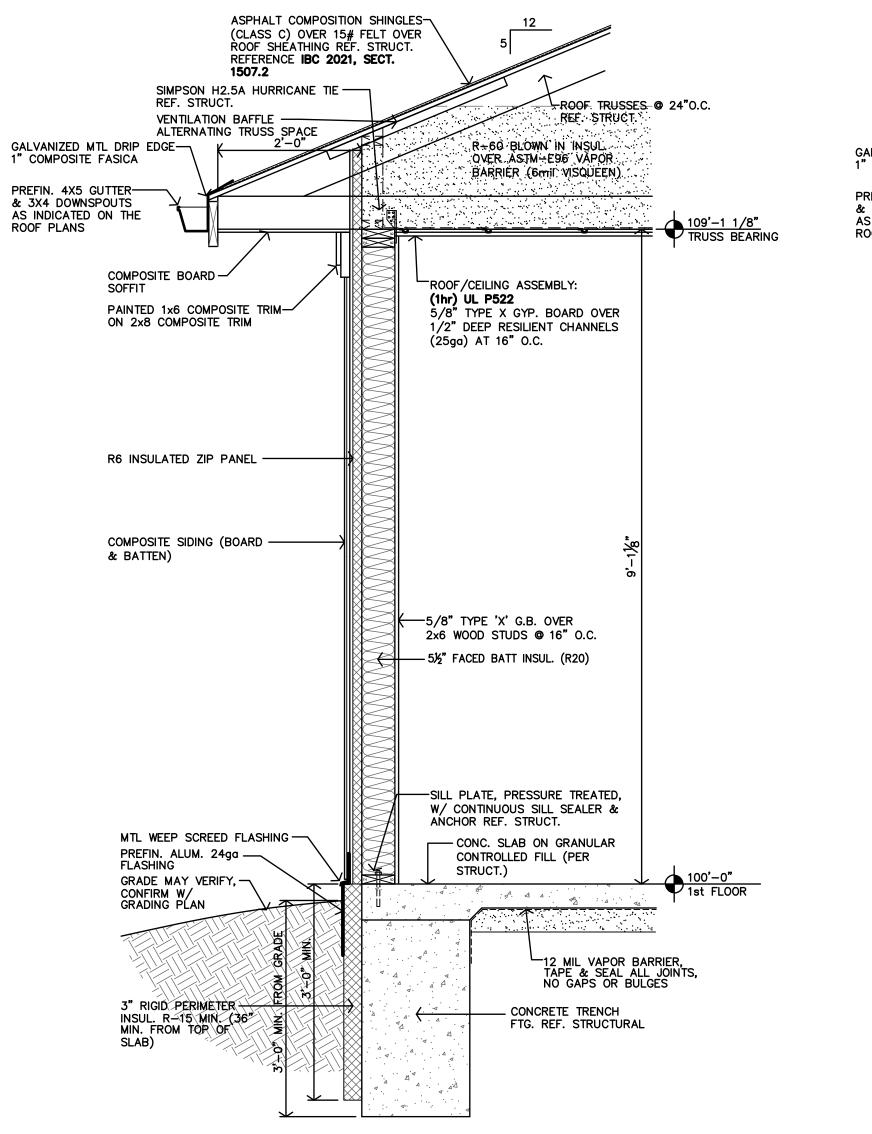
CONFIRM W/ GRADING PLAN

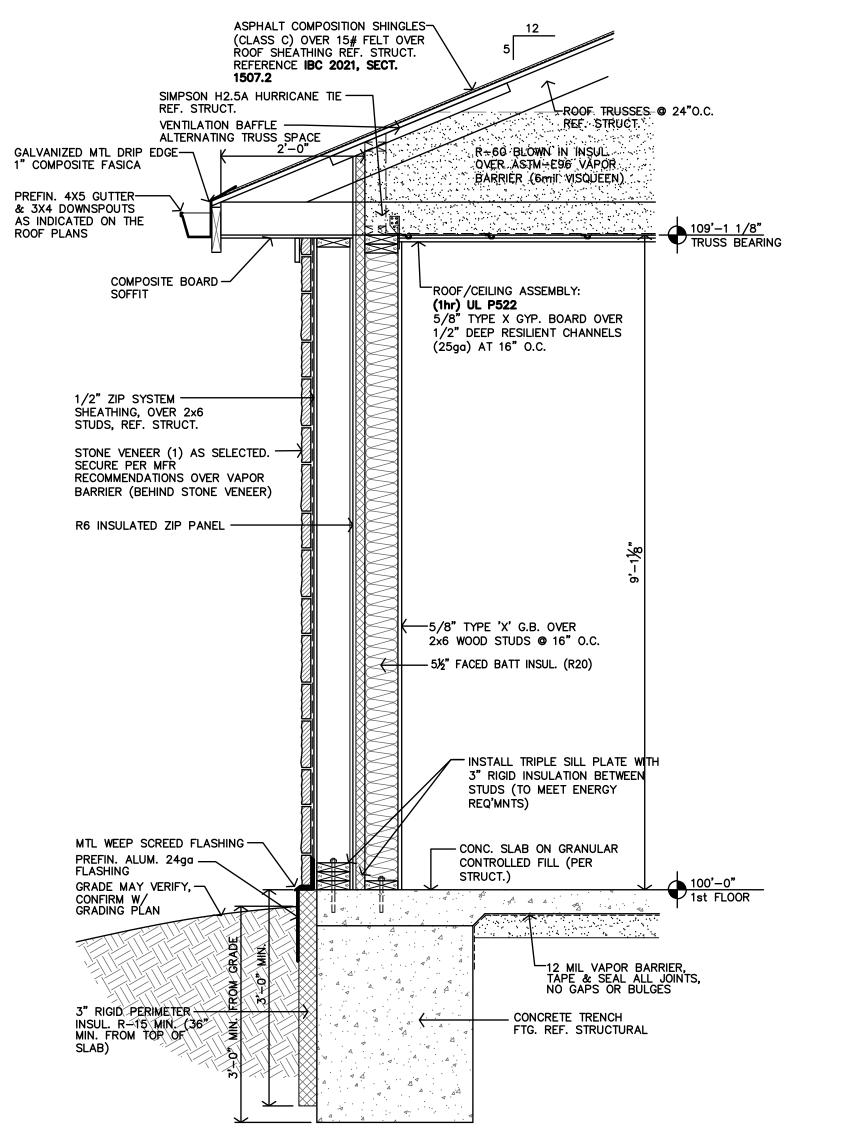
COMPOSITE SIDING (BOARD -

2x4 PAINTED TRIM -

PREFIN. 4X5 GUTTER— & 3X4 DOWNSPOUTS AS INDICATED ON THE

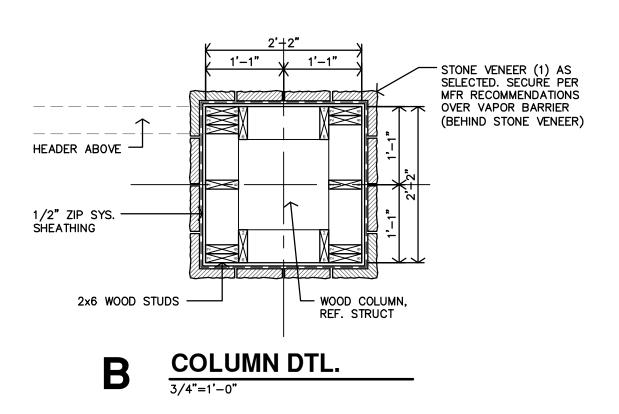
ROOF PLANS

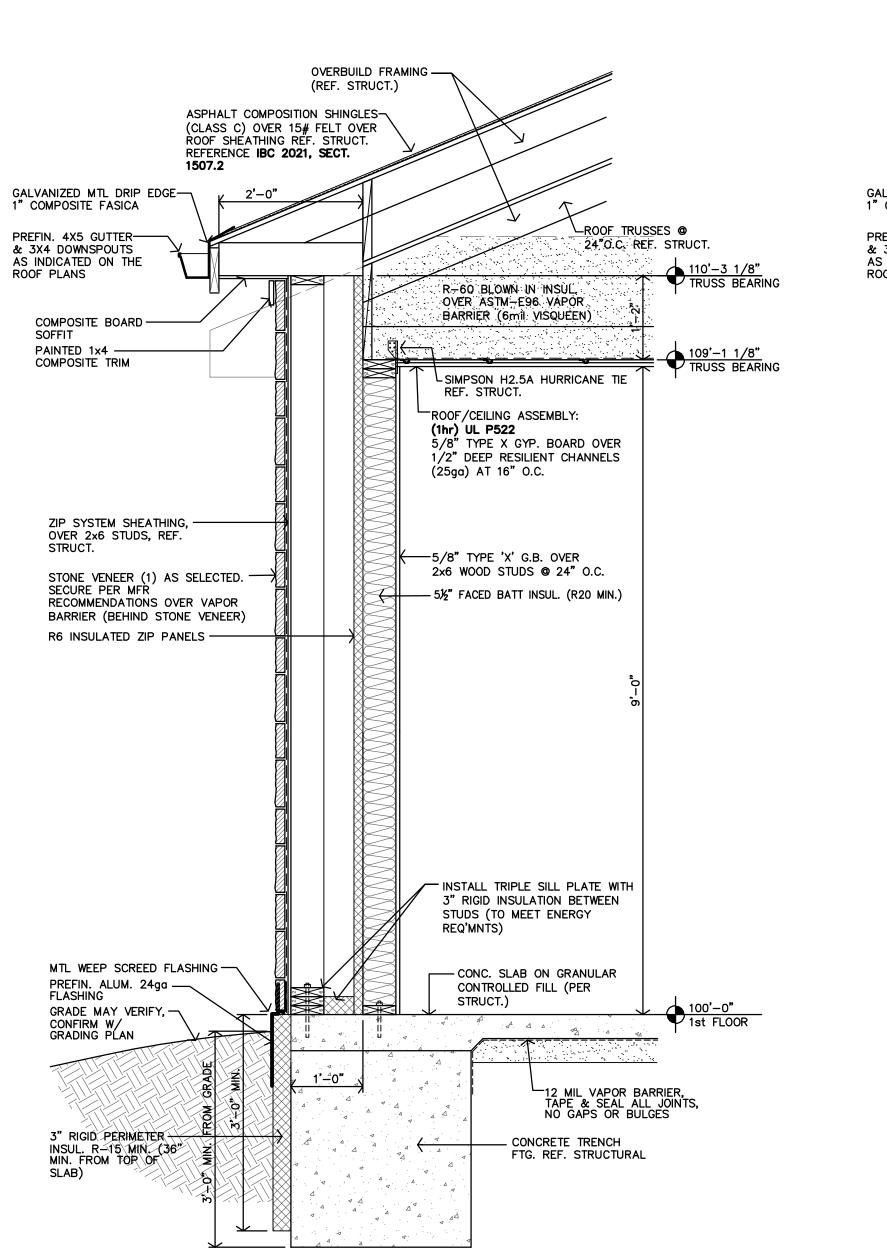


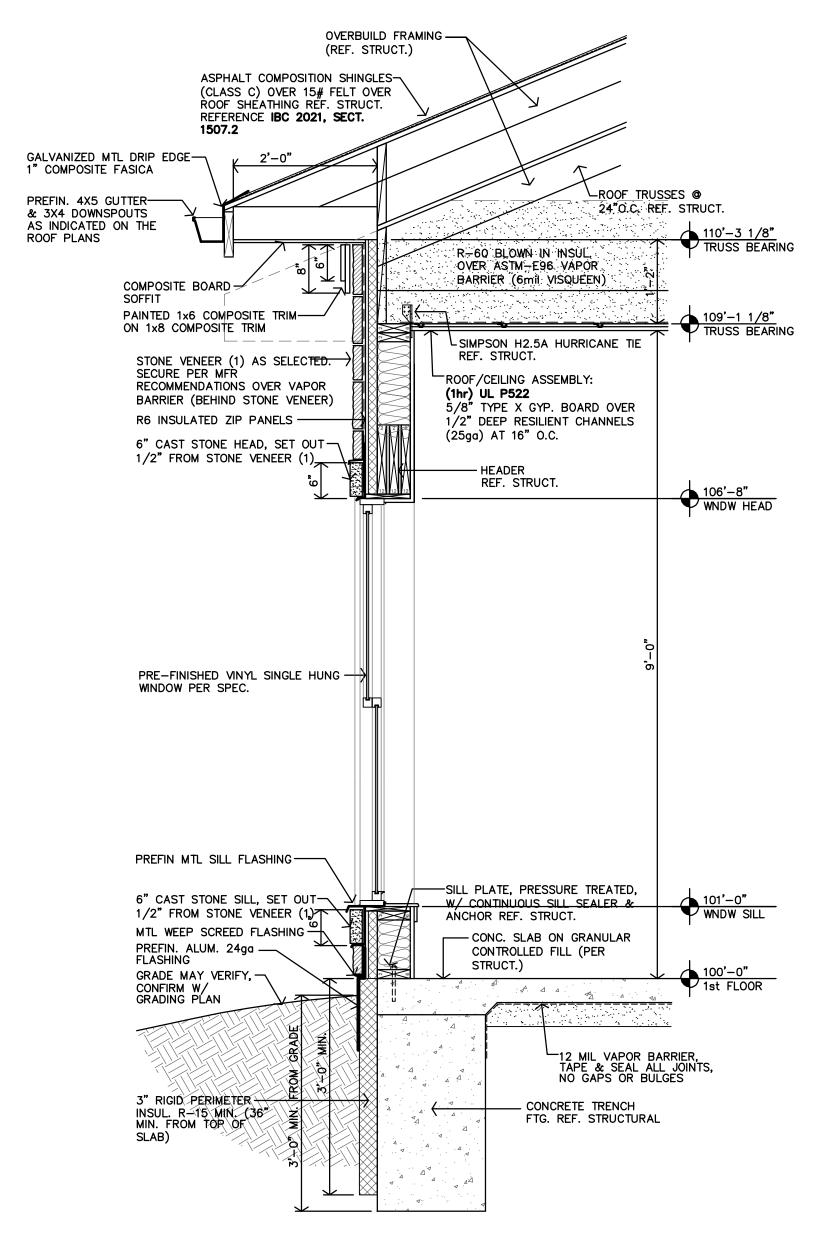


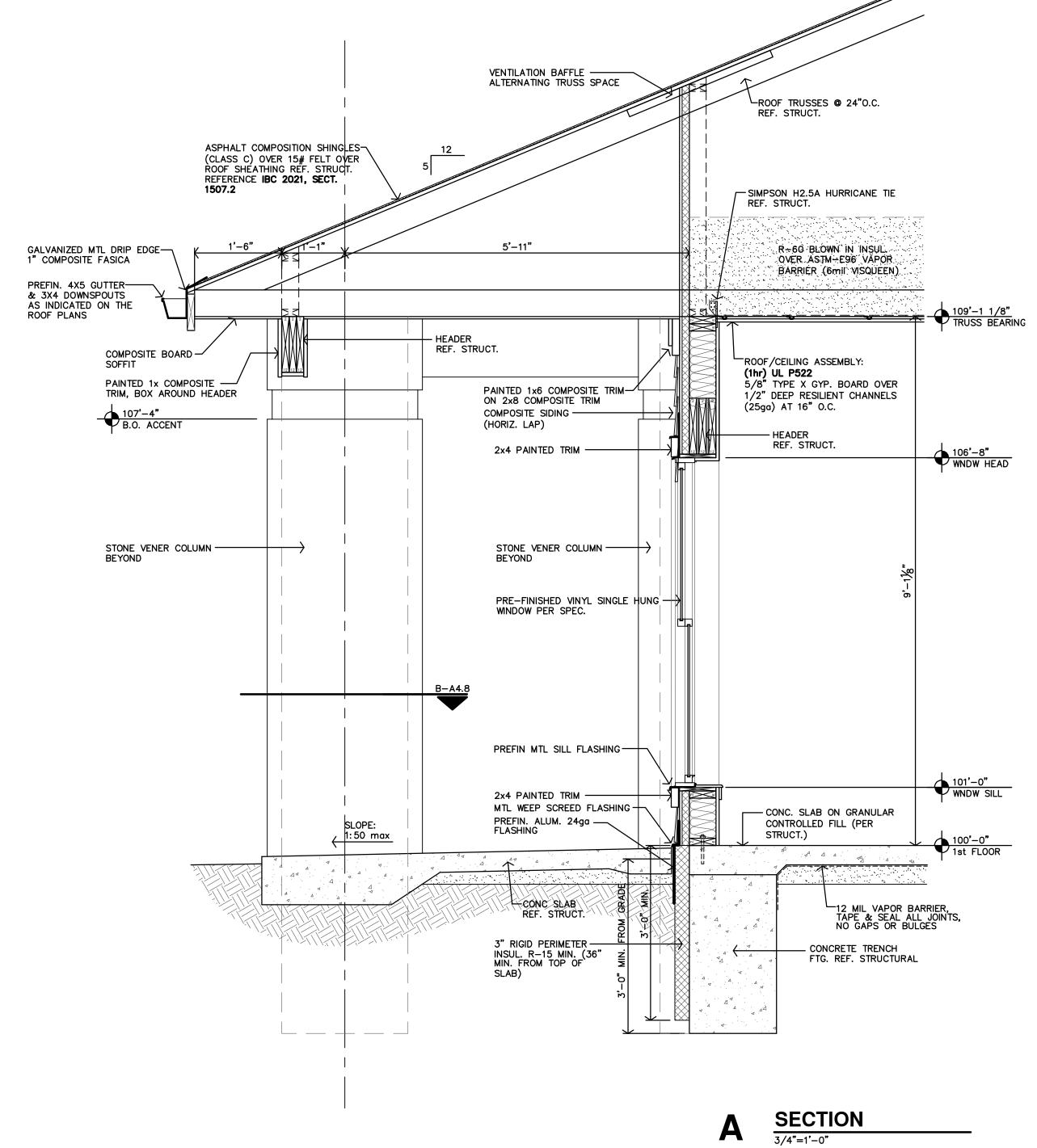
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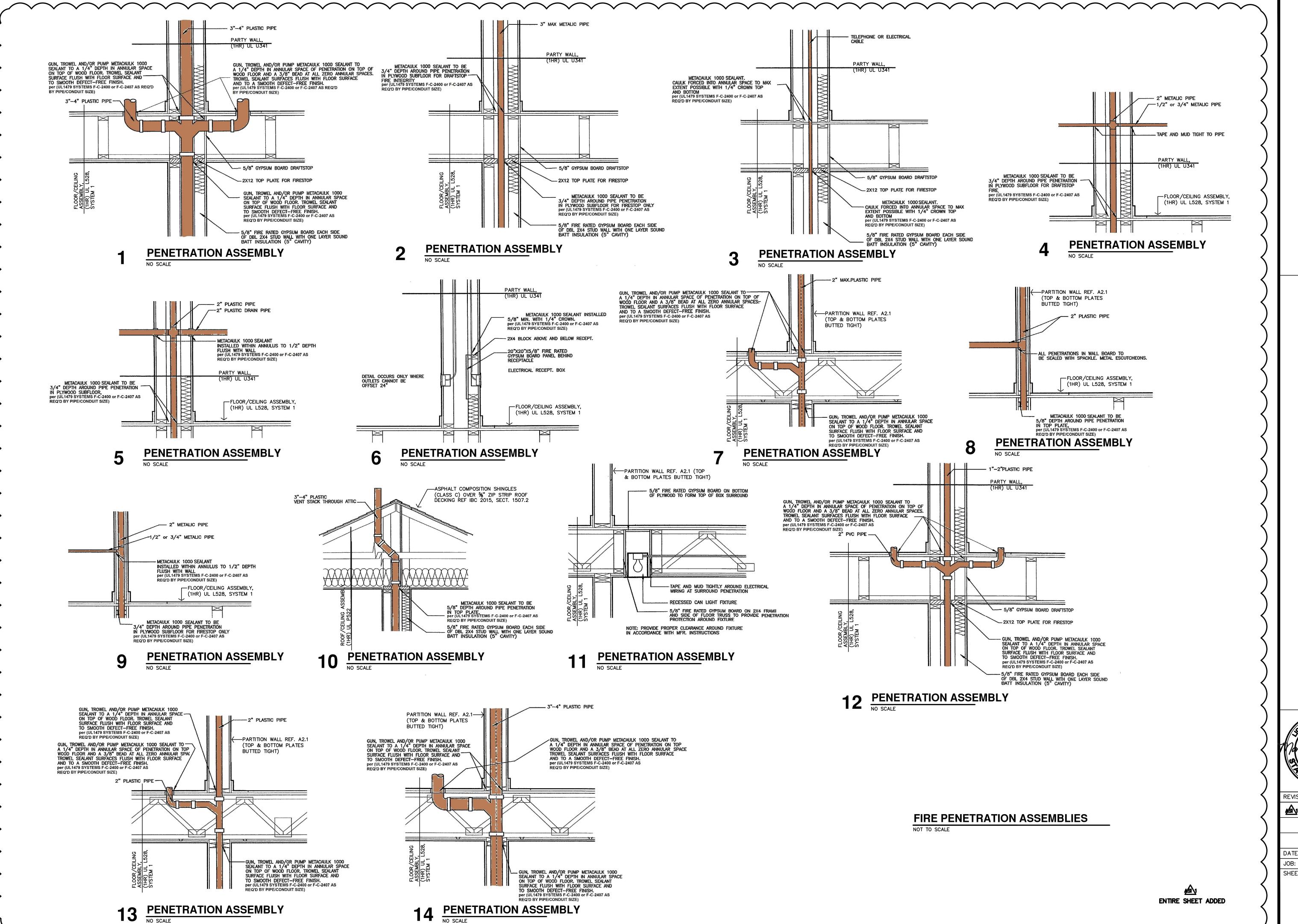
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REVISION:

9-27-2024

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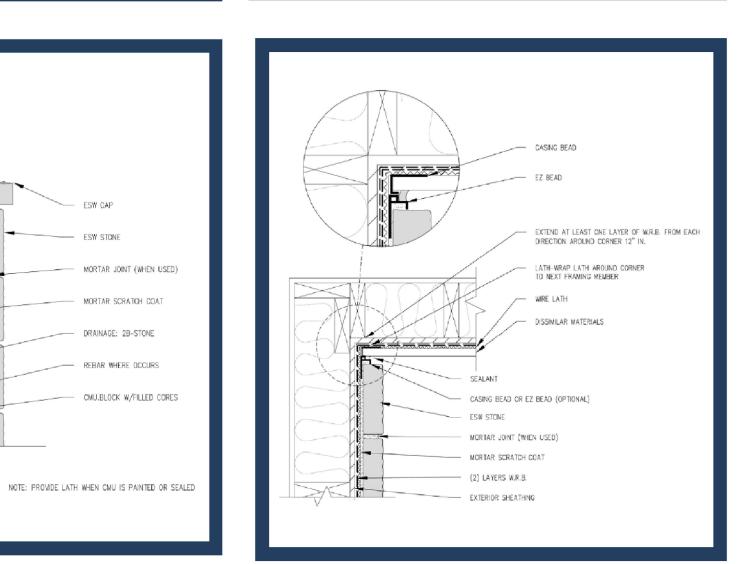
FIGURE 8

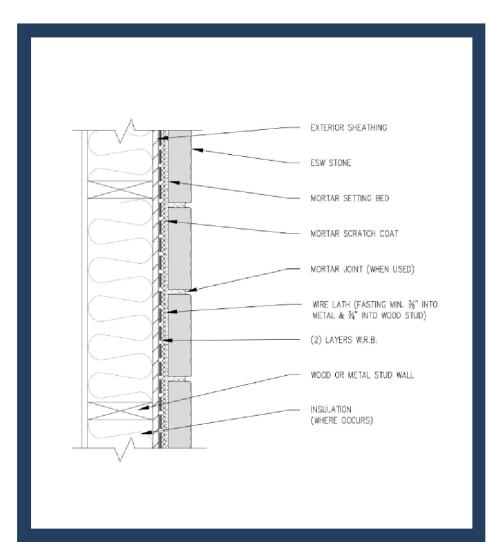


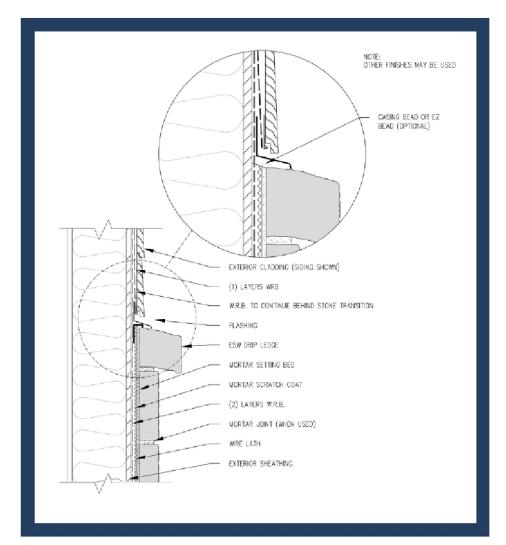
DATE: JOB: 7-17-2024 22-3262 SHEET NO.:

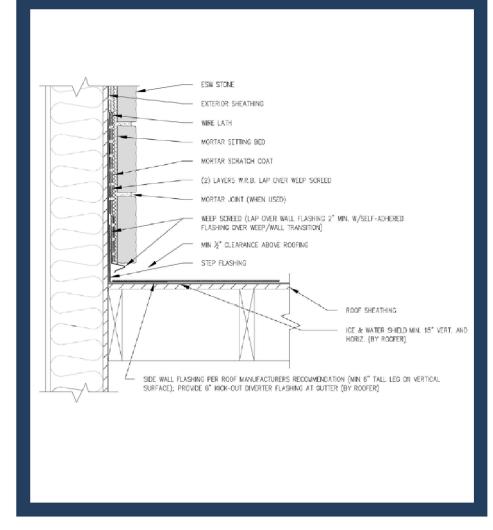
A4.10

WALL CAP - CMU RETAINING WALL









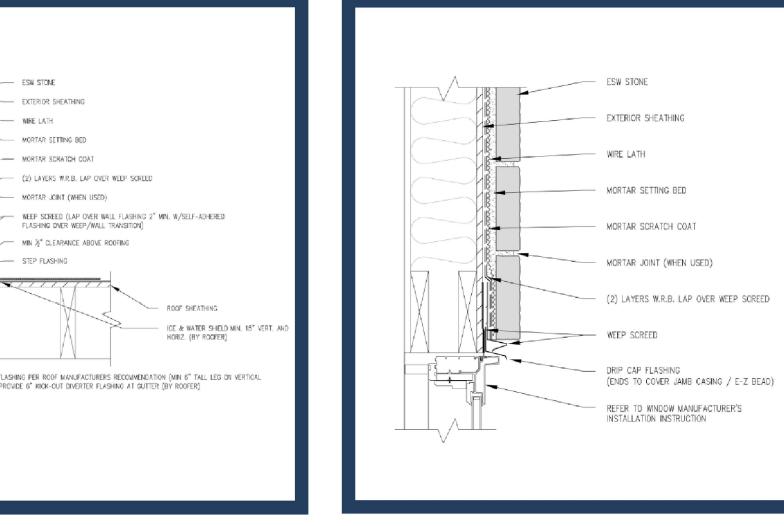


FIGURE 13

FIGURE 7 WINDOW SILL W/ STONE DRIP LEDGE

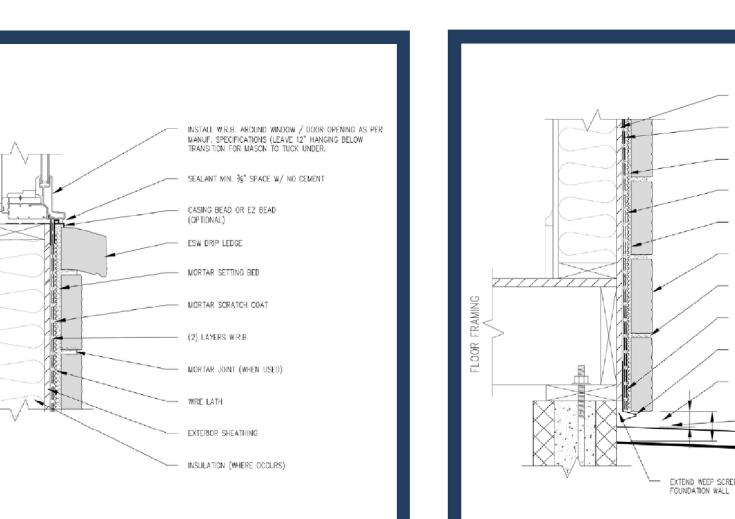


FIGURE 10 FOUNDATION WALL @ BASE

WOOD COLUMN BASE

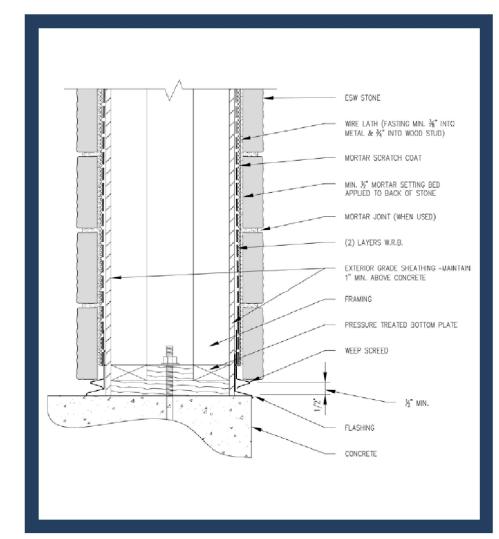
FIGURE 11

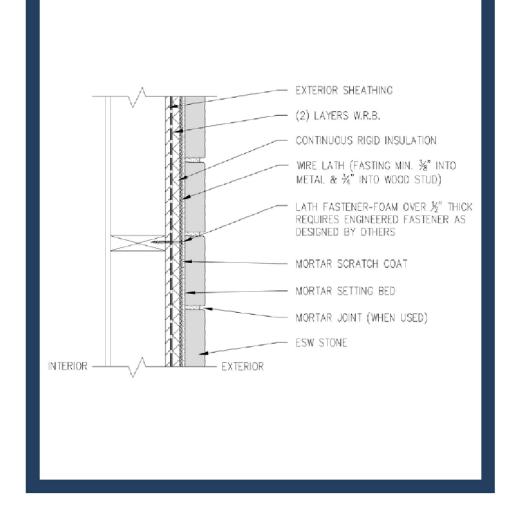
FIGURE 12 WINDOW JAMB - OPT DRAINAGE MAT

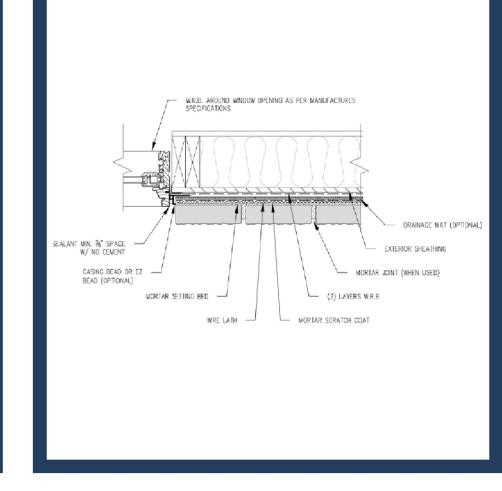
/ HORIZONTAL TRIM BOARD —— CASING BEAD OR EZ BEAD (OPTIONAL)

HORIZONTAL TRANSITION W/ STONE DRIP LEDGE

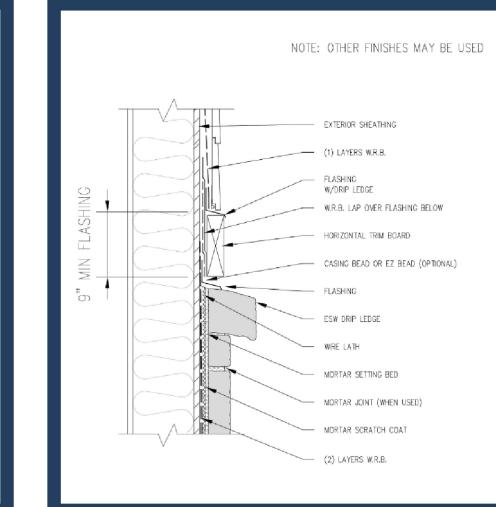
EXTERIOR SHEATHING MORTAR JOINT (WHEN USED) 2" MIN. AT HARD SURFACE WITH NO FOOTER EXTEND WEEP SCREED MIN. 1" BELOW TOP OF FOUNDATION WALL







VERTICAL TRANSITION @ DISSIMILAR MATERIAL



TOP OF WALL W/ DRAINAGE MAT

INSULATION (WHERE OCCURS)

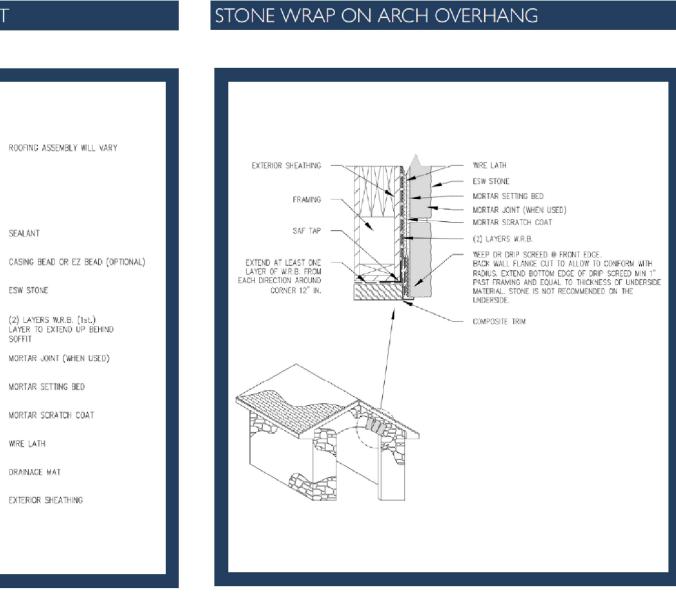
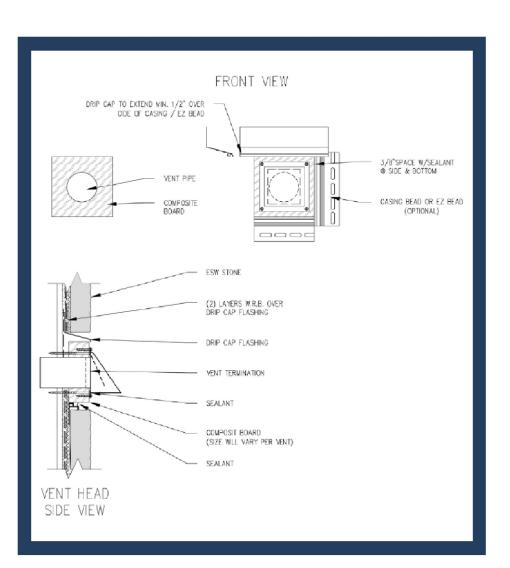
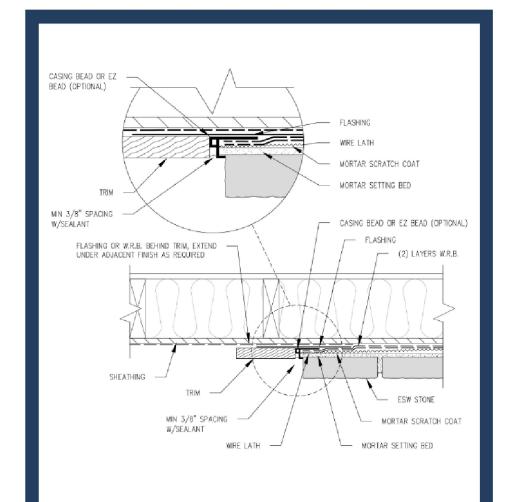


FIGURE 20 DRYER VENT



ISOMETRIC VIEW: DIVERTER/KICK-OUT FLASHING DETAIL



MANUFACTURED STONE

Contractor to install as indicated **Actual Conditions May Vary** DETAILS ARE NOT TO SCALE



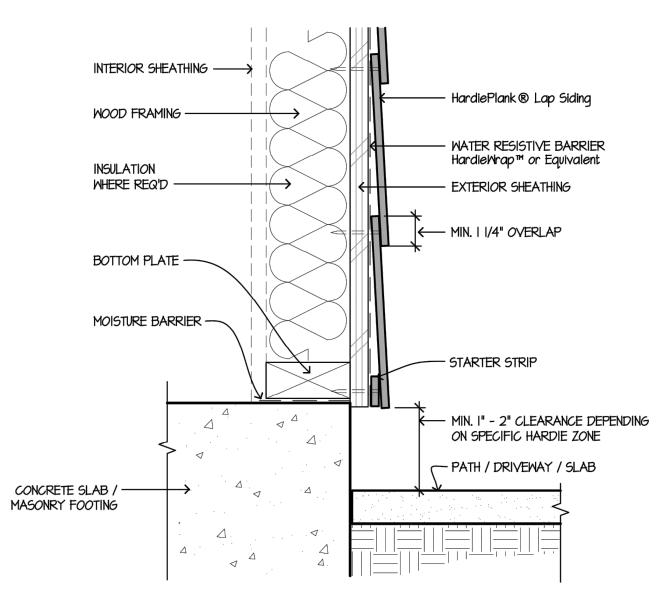
R H

SCALE: 3"=1'-0"

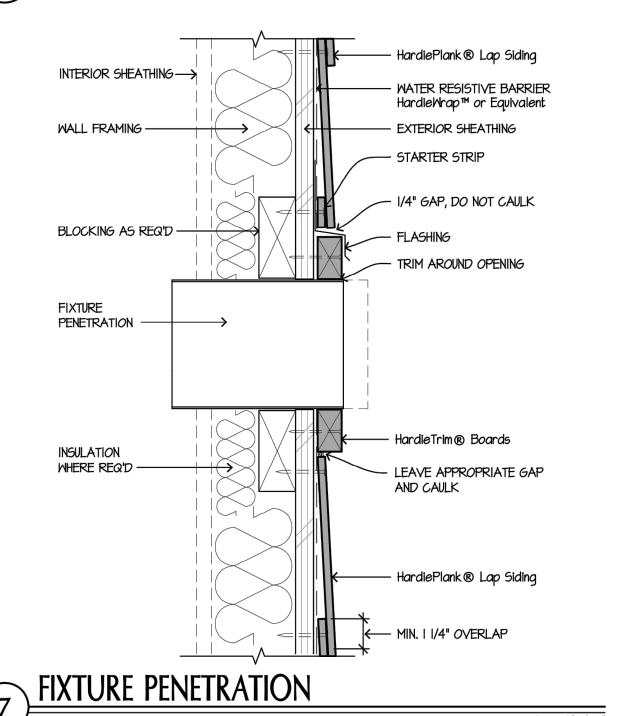
7-17-2024 22-3262 SHEET NO.:

— METAL CAPPING UNDERLAY TO PROVIDE ISOLATION OF METAL FLASHING TO FRAMING WOOD FRAMING -- MIN. I 1/4" OVERLAP - WATER RESISTIVE BARRIER INSULATION HardieWrap™ or Equivalent WHERE REQ'D -- EXTERIOR SHEATHING HardiePlank® Lap Siding— - HardiePlank® Lap Siding

SCALE: 3"=1'-0"

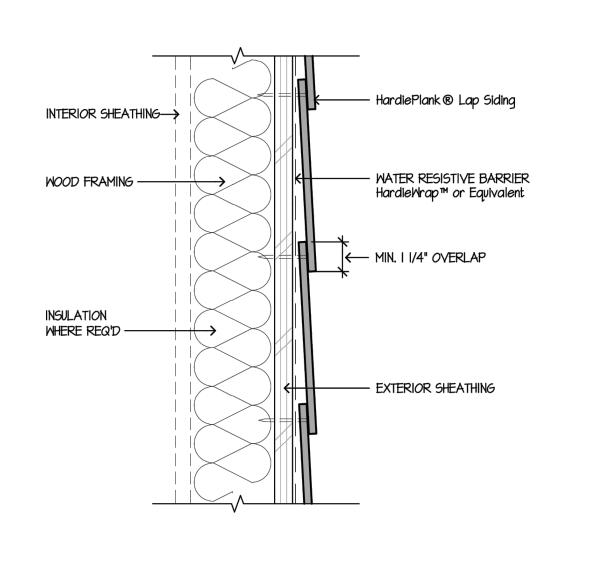


HARDSCAPE CLEARANCES, DECKS, PORCHES, PATIOS, WALKWAYS, ROOFS, ETC.

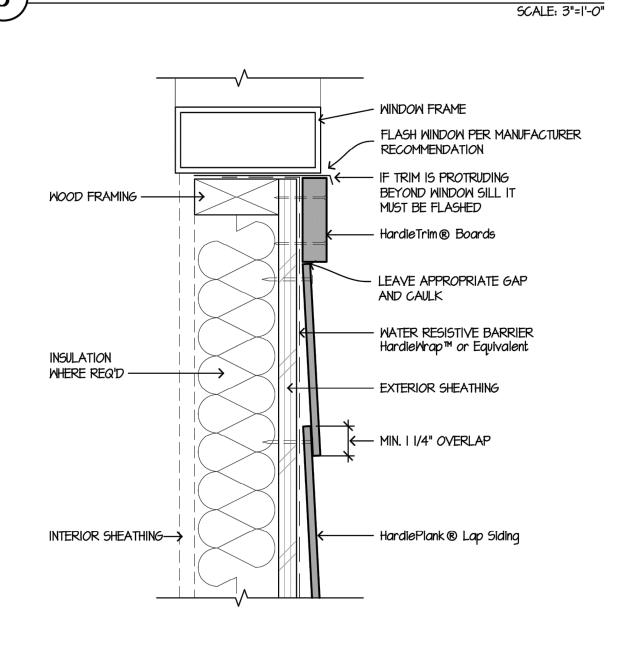


WOOD FRAMING -- HardiePlank® Lap Siding INTERIOR SHEATHING -> INSULATION WHERE REQ'D -WATER RESISTIVE BARRIER HardieWrap™ or Equivalent - EXTERIOR SHEATHING - MIN. I 1/4" OVERLAP - STARTER STRIP — MIN. 6" GRADE CLEARANCE FOUNDATION -----

GRADE CLEARANCE



HORIZONTAL LAP VIEW

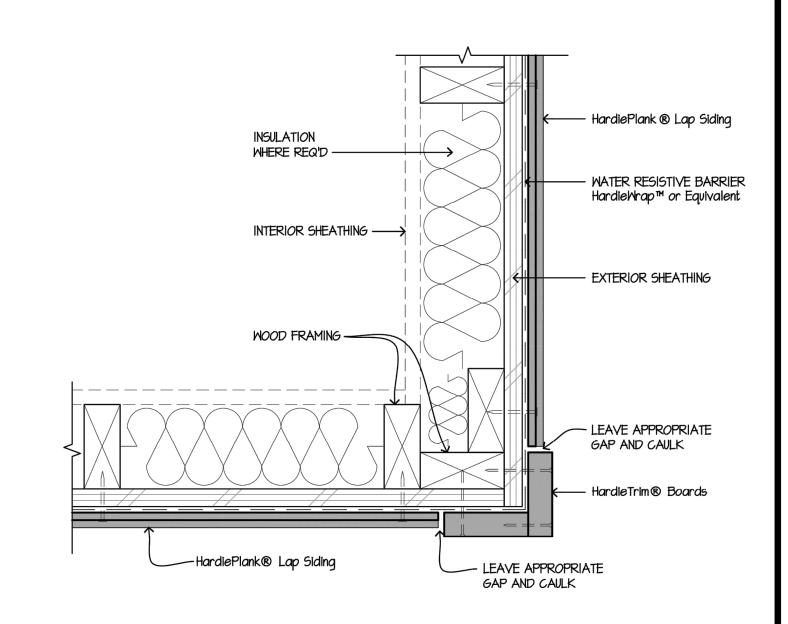


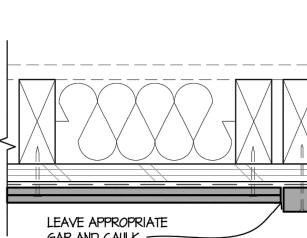
WINDOW SILL

- HardiePlank® Lap Siding INTERIOR SHEATHING -> WOOD FRAMING ----MATER RESISTIVE BARRIER HardieWrap™ or Equivalent INSULATION WHERE REQ'D -- MIN. I 1/4" OVERLAP - EXTERIOR SHEATHING - STARTER STRIP - 1/4" GAP, DO NOT CAULK WINDOW HEADER -- Z-FLASHING HardieTrim® Boards FLASH WINDOW PER MANUFACTURER RECOMMENDATION - WINDOW FRAME

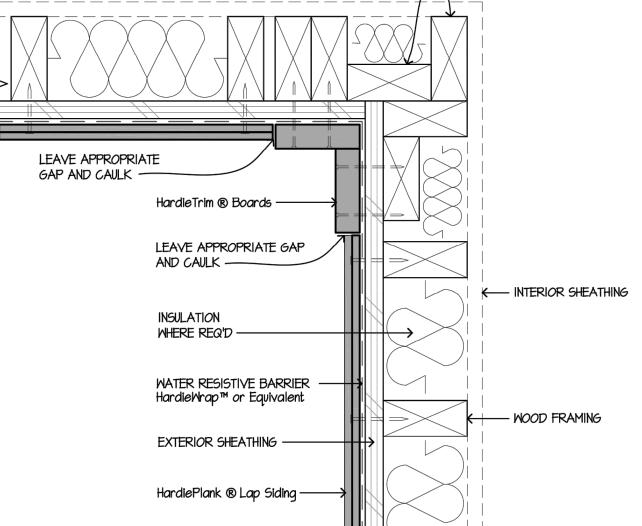
WINDOW/DOOR HEAD

SCALE: 3"=1'-0"





OUTSIDE CORNER



# DOOR / WINDOW JAMB

HARDIE LAP SIDING

Ref. Elevations for colors and sizes.

INSULATION WHERE

- WATER RESISTIVE BARRIER

HardiePlank ® Lap Siding —

REQUIRED -

**Manufacturers Installation Details,** 

Contractor to install as indicated

**Actual Conditions May Vary** 

DETAILS ARE NOT TO SCALE

WOOD FRAMING -

DOOR / WINDOW

FLASHING TAPE

HardieTrim® Boards—

- EXTERIOR SHEATHING

- INTERIOR SHEATHING

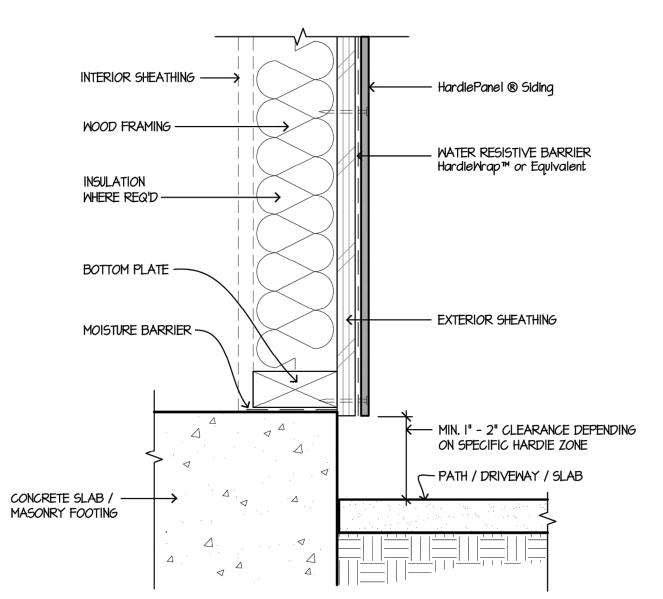
1 INSIDE CORNER

R H

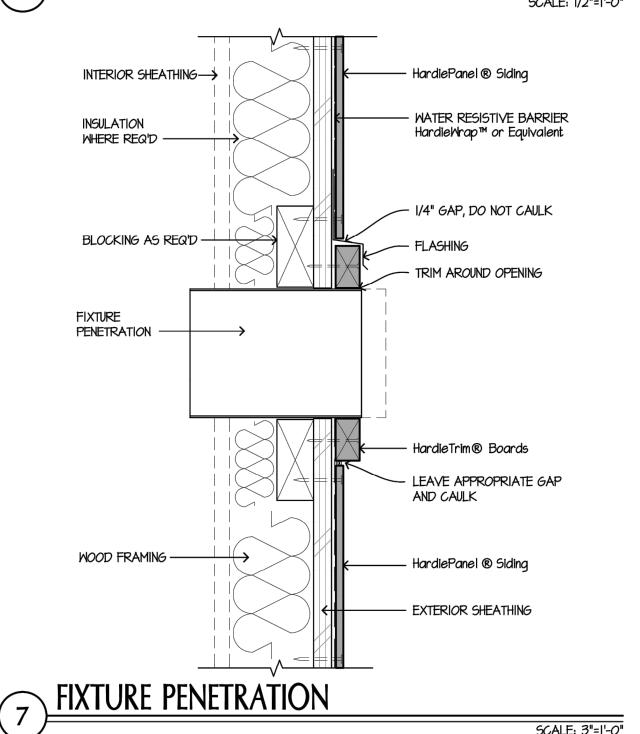
7-17-2024 22-3262 SHEET NO .:

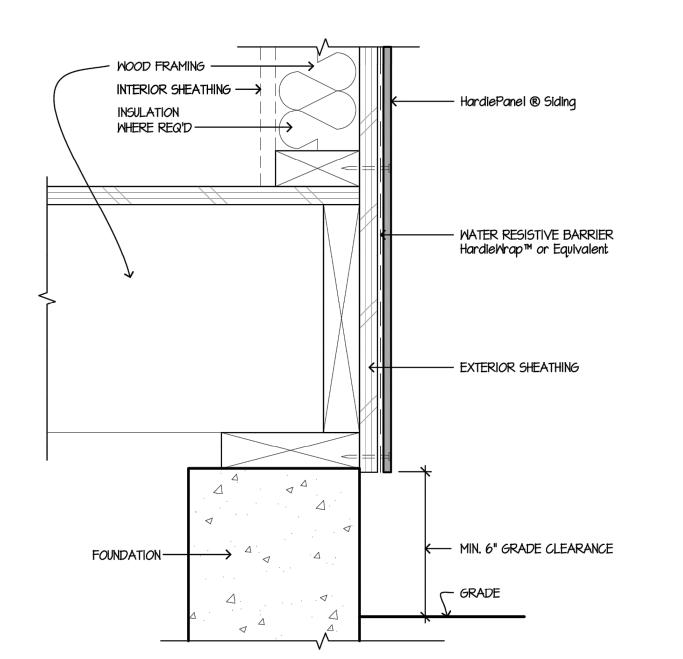
A4.12

- METAL CAPPING UNDERLAY TO PROVIDE ISOLATION OF METAL FLASHING TO FRAMING WOOD FRAMING -— HardiePanel® Siding INSULATION WHERE REQ'D -- WATER RESISTIVE BARRIER HardieWrap™ or Equivalent - EXTERIOR SHEATHING

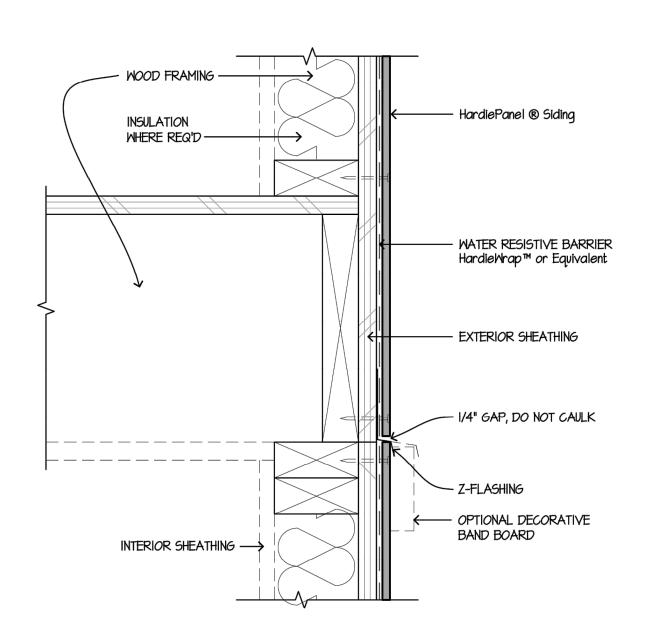


HARDSCAPE CLEARANCES, DECKS, PORCHES, PATIOS, WALKWAYS, ROOFS, ETC.

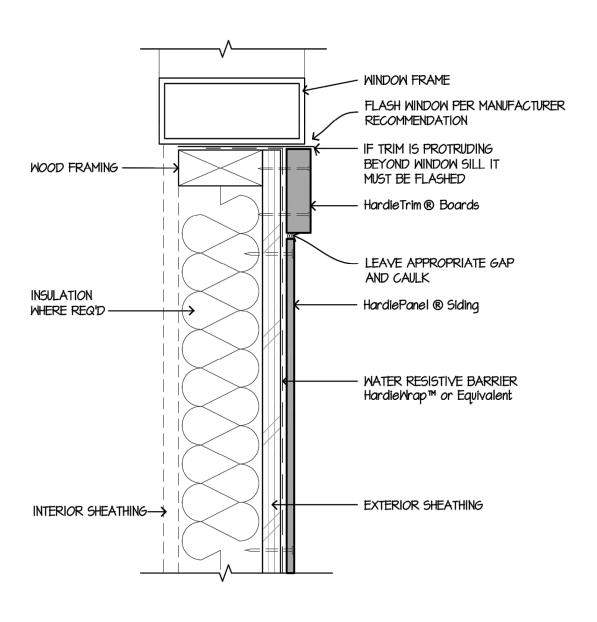




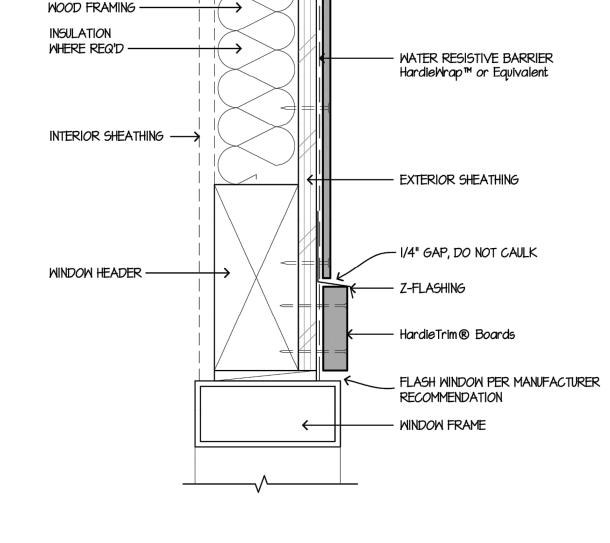
GRADE CLEARANCE



5 HORIZONTAL VIEW SCALE: 3"=1'-0"

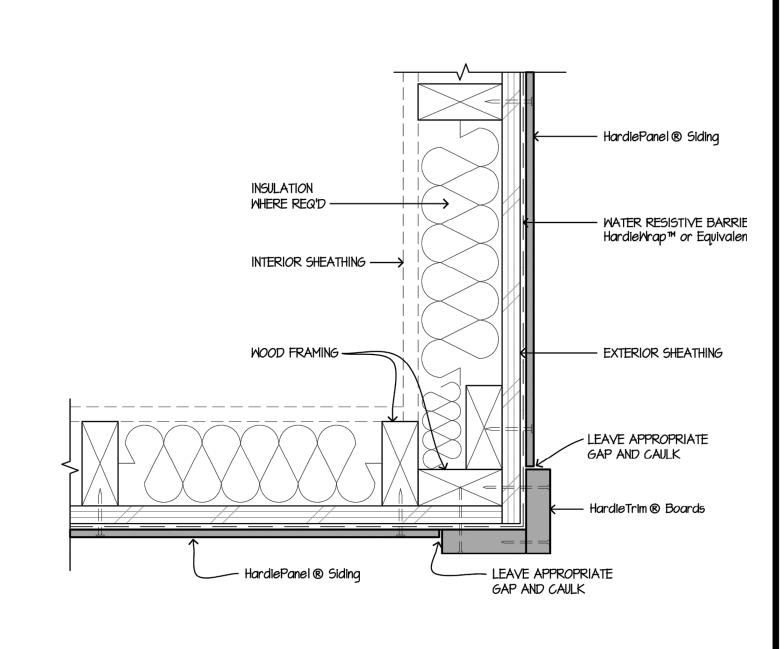


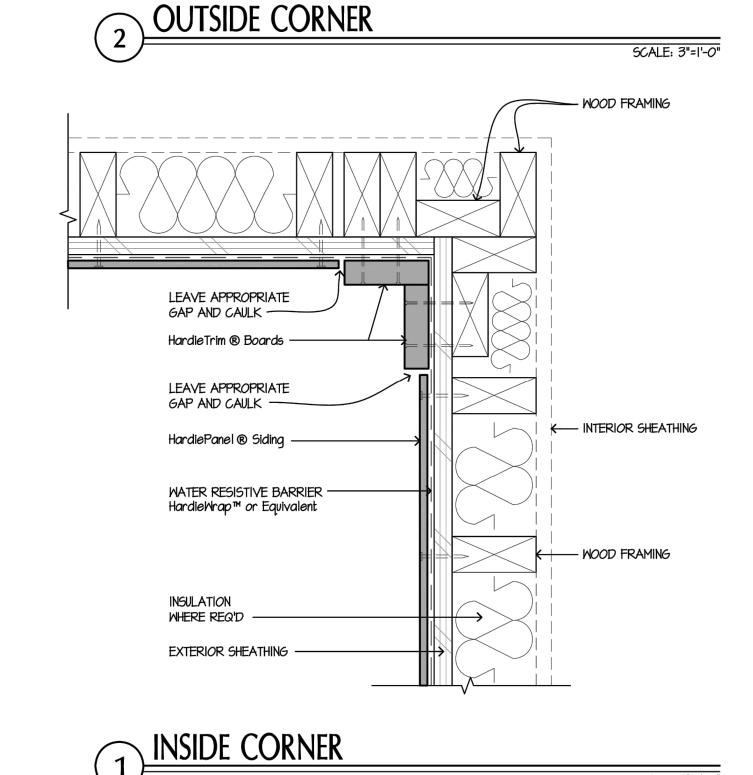
WINDOW SILL

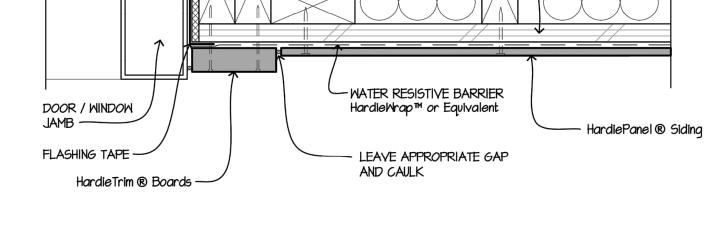


— HardiePanel ® Siding

WINDOW/DOOR HEAD







INSULATION WHERE

REQUIRED -

HARDIE PANEL SIDING

Ref. Elevations for colors and sizes.

**Manufacturers Installation Details,** 

Contractor to install as indicated

**Actual Conditions May Vary** 

DETAILS ARE NOT TO SCALE

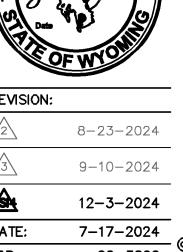
WOOD FRAMING -

(BOARD & BATTEN)

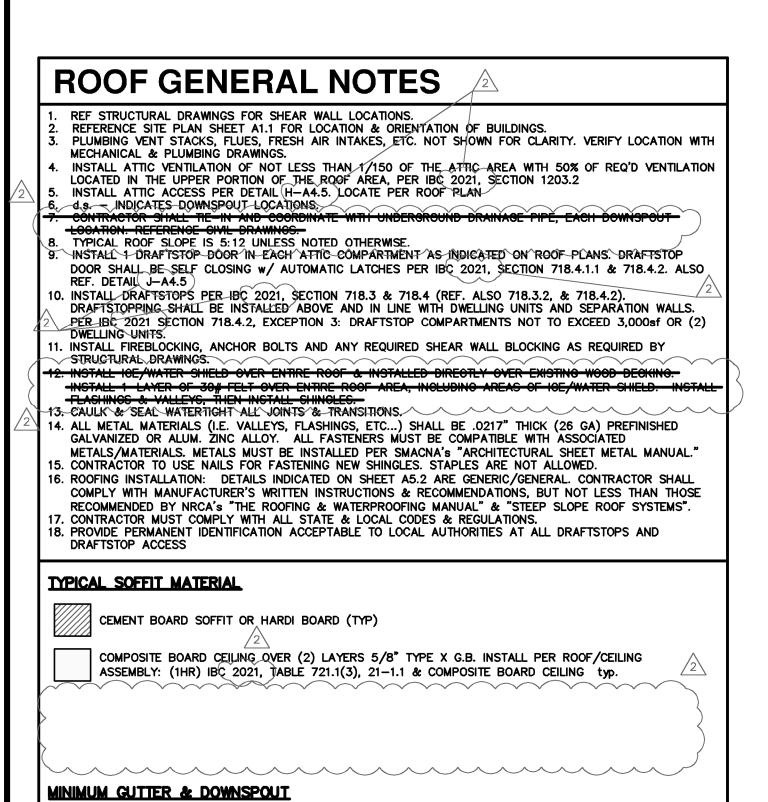
DOOR / WINDOW JAMB

- EXTERIOR SHEATHING

- INTERIOR SHEATHING



REVISION: JOB: 22-3262 SHEET NO .: **A5.1** 



## **APARTMENT BUILDING A ATTIC VENTILATION**

ATTIC VENTILATION PER IBC 2021, SECTION 1202.2, 1/300 WITH ASTM 396 VAPOR BARRIER RIDGE VENT SHALL PROVIDE A MIN. OF 18 SQUARE INCHES OF NET FREE AREA, (NFA) OF VENTILATION PER LINEAR FOOT, OR ADDITONAL AND OPTIONAL VENTS MUST BE INSTALLED.

AREA 2 (2 thus)

ATTIC AREA MUST PROVIDE

AREA 1 (2 thus) (2,658/300 = 8.86/2 = 4.43 HIGH & LOW)
4.43sf OF NET FREE AREA © THE RIDGE & SOFFITS.

(2,045/300 = 6.82/2 = 3.41 HIGH & LOW)
3.41sf OF NET FREE AREA © THE RIDGE & SOFFITS.

GUTTER - 4x5 DOWNSPOUT - 3x4

ATTIC AREA MUST PROVIDE

526/300 = 1.75/2 = 0.875 HIGH & LOW)

0.875sf OF NET FREE AREA • THE RIDGE & SOFFITS.

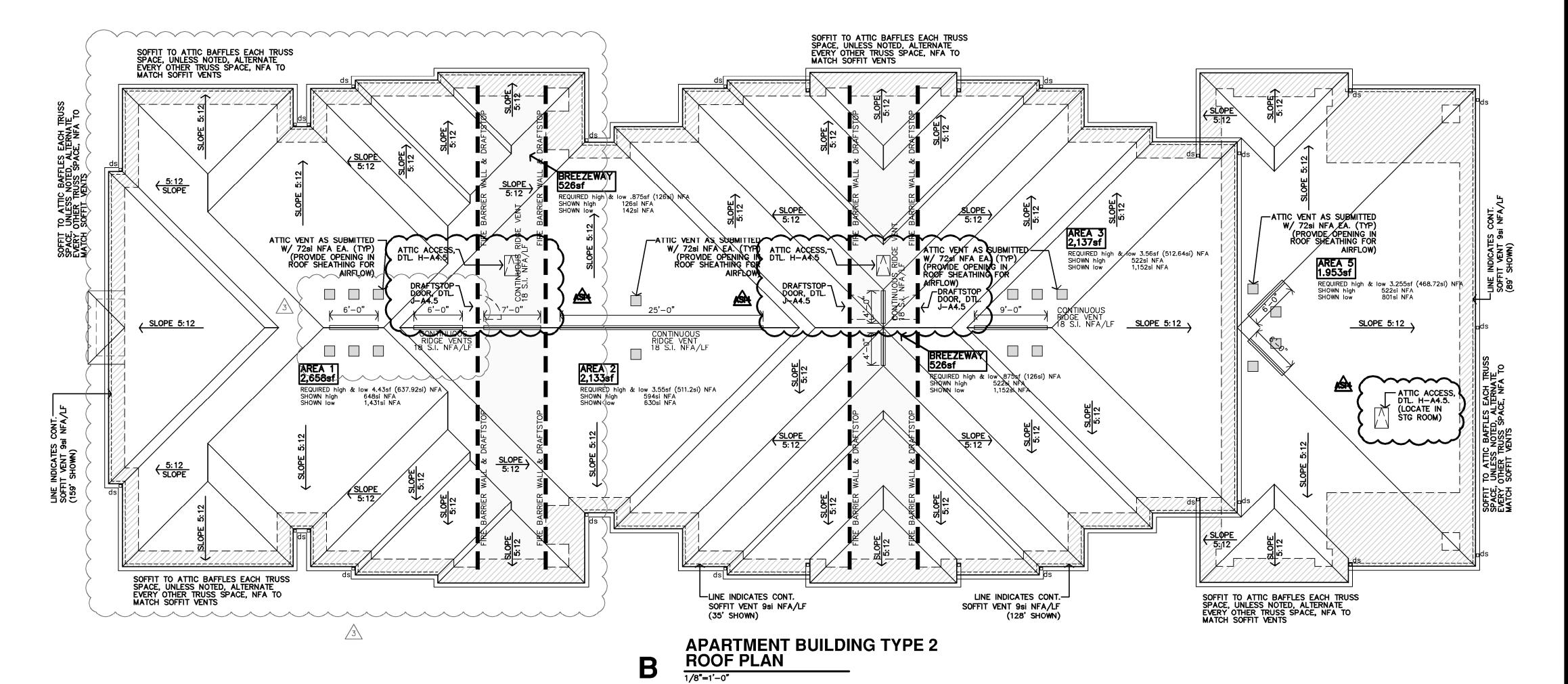
# **ATTIC VENTILATION**

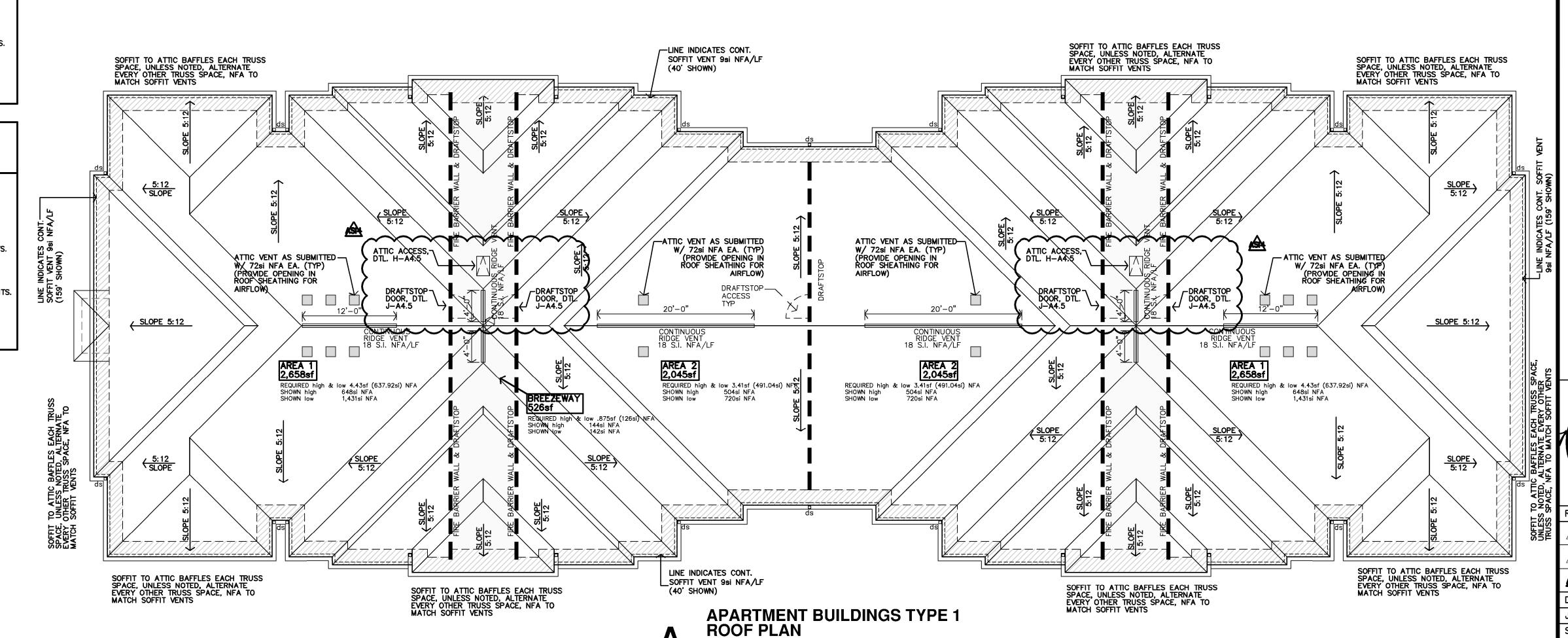
AREA 1
ATTIC AREA MUST PROVIDE

AREA 2 ATTIC AREA MUST PROVIDE AREA 4 (BREEZEWAYS) (2 thus)

AREA 5 (CLUBHOUSE) ATTIC AREA MUST PROVIDE

(1,953/300 = 6.51/2 = 3.255 HIGH & LOW) 3.255sf OF NET FREE AREA © THE RIDGE & SOFFITS.





# **APARTMENT BUILDING B**

ATTIC VENTILATION PER IBC 2021, SECTION 1203.2, 1/300 WITH ASTM 396 VAPOR BARRIER RIDGE VENT SHALL PROVIDE A MIN. OF 18 SQUARE INCHES OF NET FREE AREA, (NFA) OF VENTILATION PER LINEAR FOOT, OR ADDITIONAL AND OPTIONAL VENTS MUST BE INSTALLED.

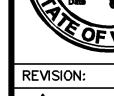
AREA 3
ATTIC AREA MUST PROVIDE (2137/300 = 7.12/2 = 3.56 HIGH & LOW) 3.56sf OF NET FREE AREA • THE RIDGE & SOFFITS. (2,658/300 = 8.86/2 = 4.43 HIGH & LOW) 4.43sf OF NET FREE AREA @ THE RIDGE & SOFFITS.

ATTIC AREA MUST PROVIDE

(2,133/300 = 7.11/2 = 3.55 HIGH & LOW)

3.55sf OF NET FREE AREA © THE RIDGE & SOFFITS.





**HIP & RIDGE DETAILS** 

them. Open (exposed) surface of

valley metal to increase 1/8" per l.f.

bottom as recommended by

SMACNA & NRCA.

of valley length from top elevation to

to handle increasing water volume. Snap chalk lines to

ensure shingles diverge

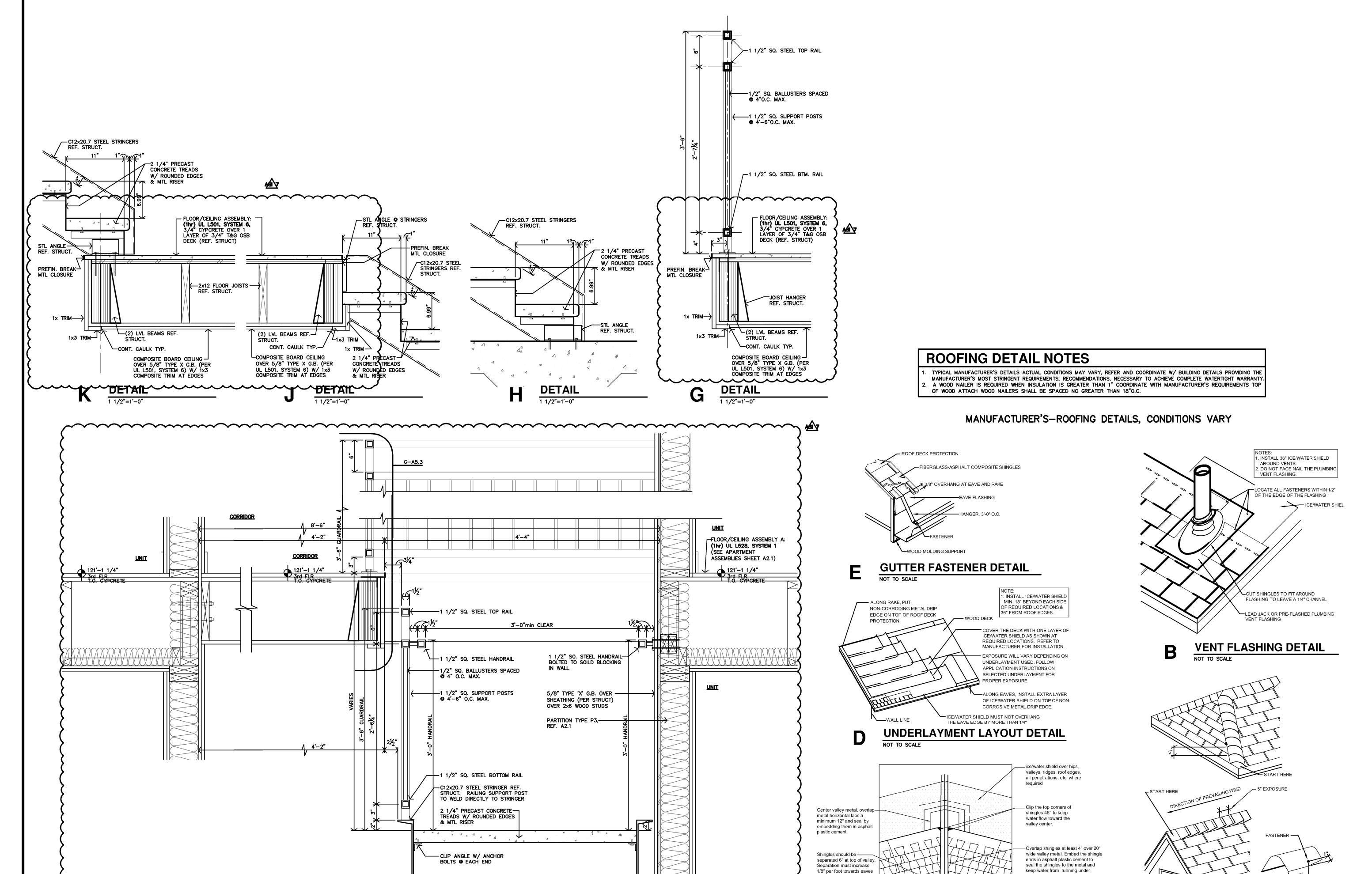
OPEN VALLEY DETAIL

NOT TO SCALE

properly in valley.

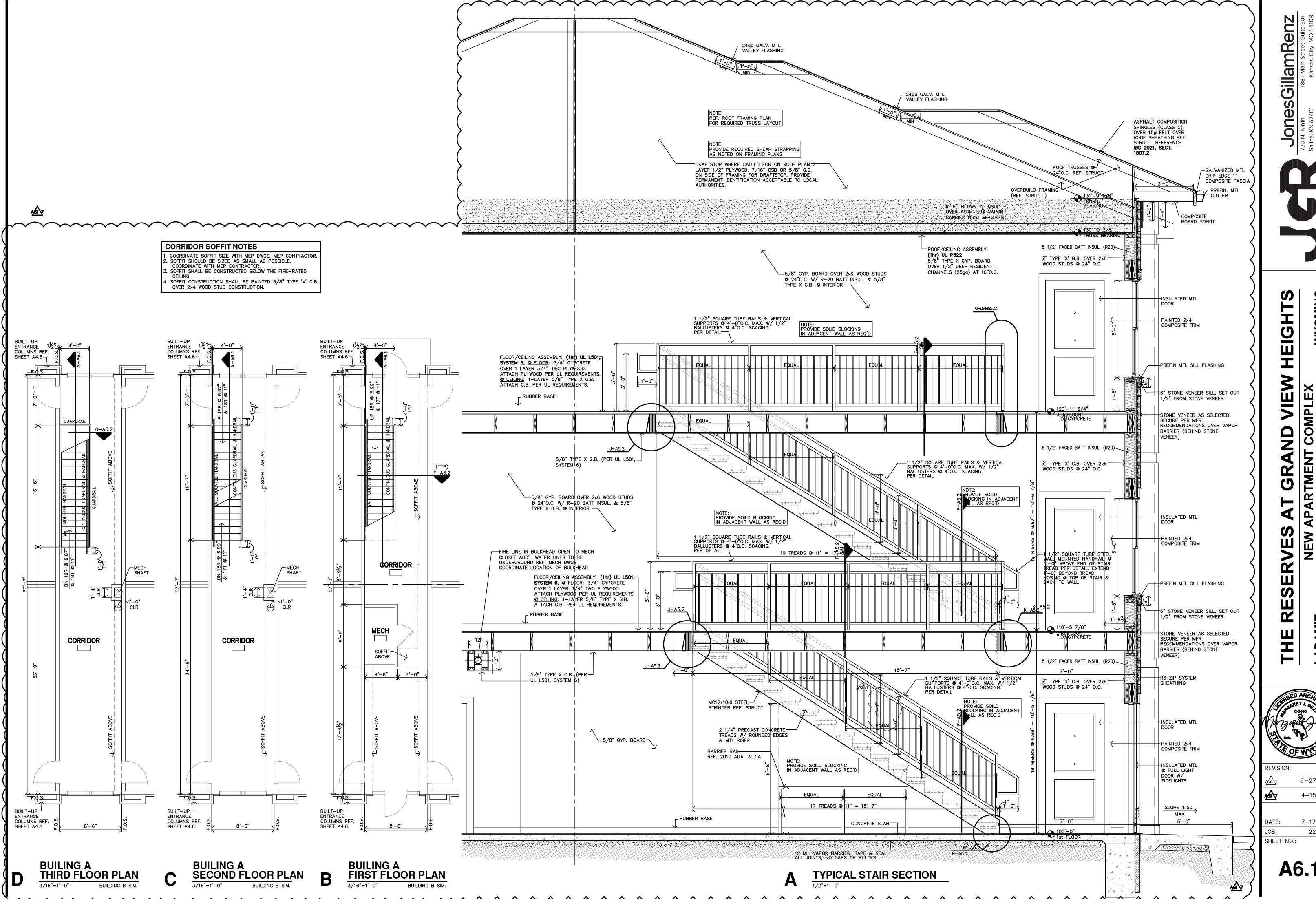
4-15-2025

7-17-2024 JOB: 22-3262 SHEET NO.:



3'-6%"

4'-0"



one

9-27-2024 4-15-2025

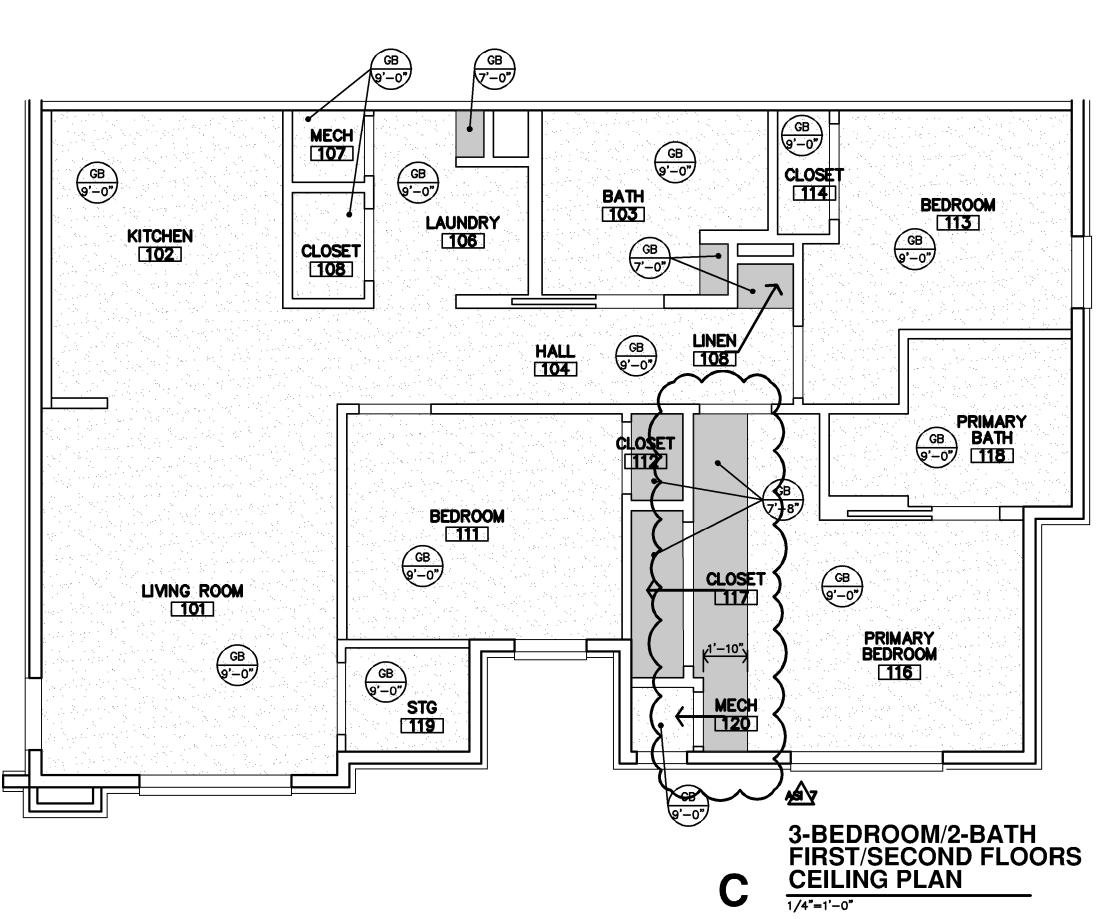
7-17-2024 22-3262

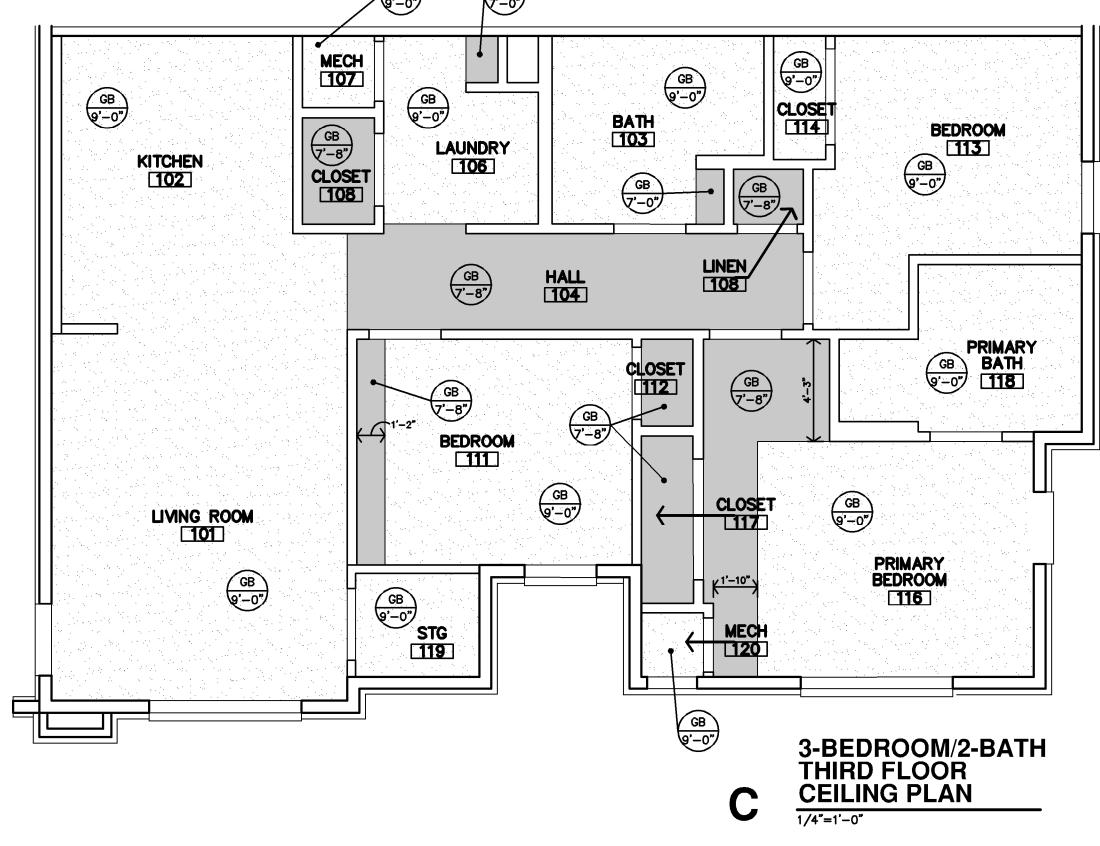
4-15-2025

DATE: 7-17-2024 22-3262 SHEET NO.:

2-BEDROOM/1-BATH FIRST/SECOND FLOORS CEILING PLAN

**A7.1** 





**CEILING NOTES** 

I. CONTRACTOR SHALL COORDINATE CEILING LAYOUT WITH MECHANICAL AND ELECTRICAL FIXTURE LOCATIONS.

NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICT OR DISCREPANCY.

2. MECHANICAL/ELECTRICAL. FIXTURES © RATED CEILINGS SHALL BE HUNG IN CONFORMANCE TO U.L.

3. CEILING MOUNTED MECHANICAL EQUIPMENT AND SUSPENDED MECHANICAL EQUIPMENT MUST BE SUSPENDED DIRECTLY FROM THE STRUCTURE.

4. WHERE SUSPENSION DEVICES, WIRES, RODS, ETC. PENETRATE CEILING GRID AND/OR TILE OR G.B. PENETRATIONS SHALL BE NEAT AND CLEANLY CUT. PENETRATION OPENING SHALL BE AS SMALL AS POSSIBLE. SEAL AT G.B.

5. FIELD VERIFY HEIGHT TO UNDERSIDE OF STRUCTURE, AT ALL NEW GYP. BD. CEILINGS. NOTIFY ARCHITECT TO COORDINATE FINAL FINISHED CEILING HEIGHTS.
6. ALL LISTED CEILING HEIGHTS ARE AS ANTICIPATED. SUBJECT TO CHANGE BASED ON FIELD VERIFICATION OF UNDERSIDE OF STRUCTURE.

INDICATES G.B. CEILING FINISH

NON-RATED WALLS

- - - - 1/2 HOUR FIRE PARTITION; CORRIDOR

SEAL VOIDS AT TOPS OF WALLS AND PENETRATIONS WITH U.L. LISTED FIRE BATT INSULATION, PILLOWS, AND/OR FIRE SEALANT AS REQUIRED BY CONDITION. AT RATED WALLS.

INDICATES A LOWERED

SOFFIT/CEILING AREA

1 18"x18" ATTIC ACCESS PANEL AT CEILING, FOR FUTURE INSTALLATION OF RADON PIPE FAN. 2 LOWERED SOFFIT/CEILING AREA. DUCTS TO BE RUN UNDERNEATH FIRE RATED ASSEMBLY.

GENERAL NOTES

SPECIFIC NOTES

SYSTEM REQUIREMENTS.

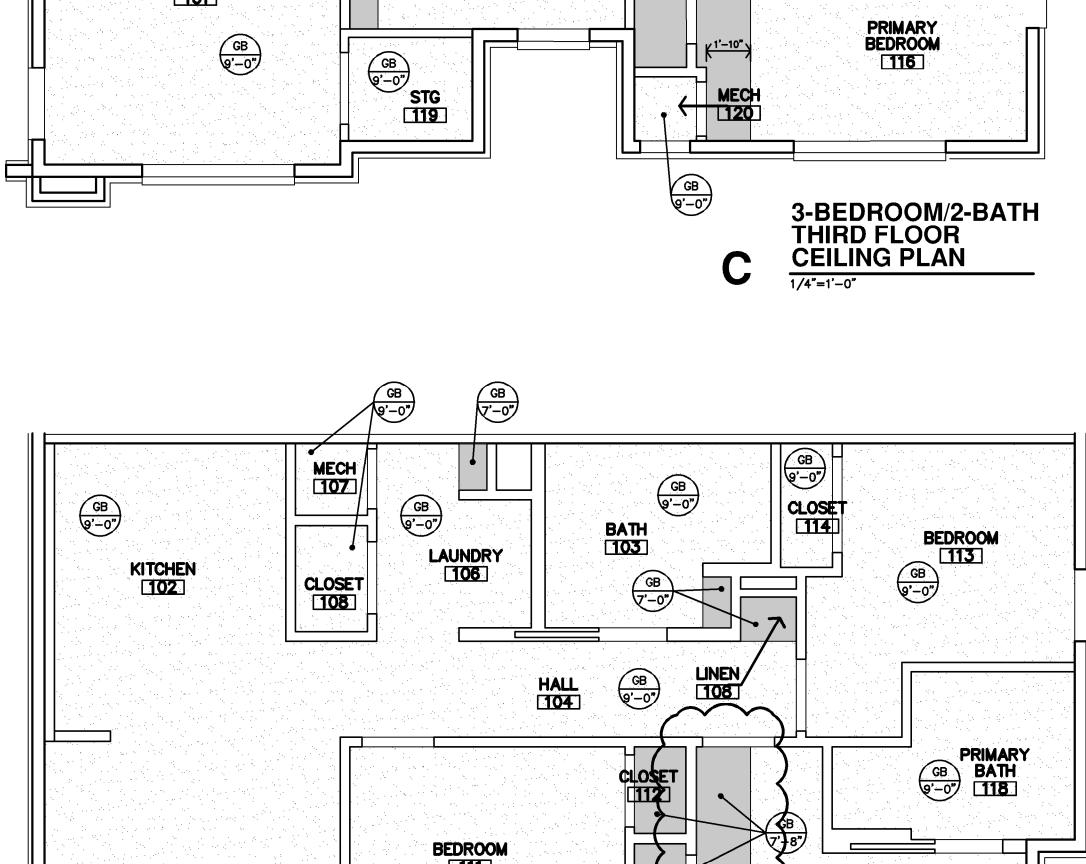
CEILING TYPES

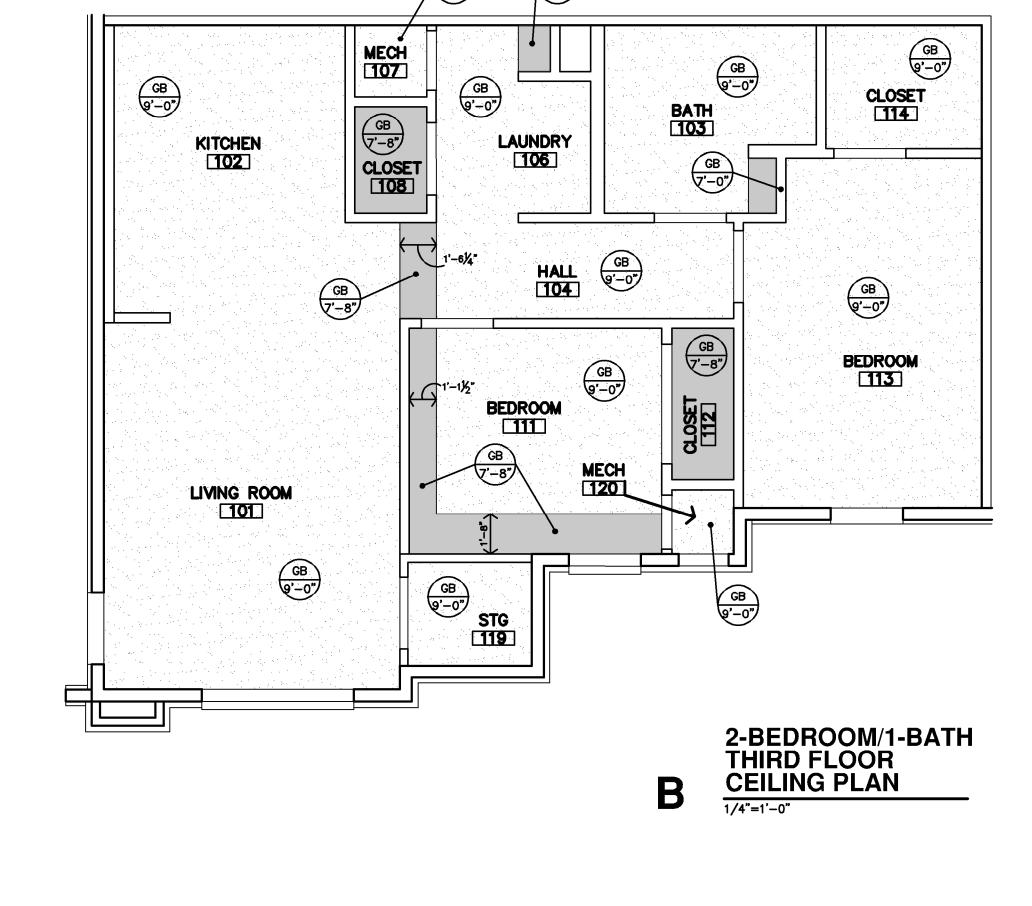
REFER SPECIFICATIONS

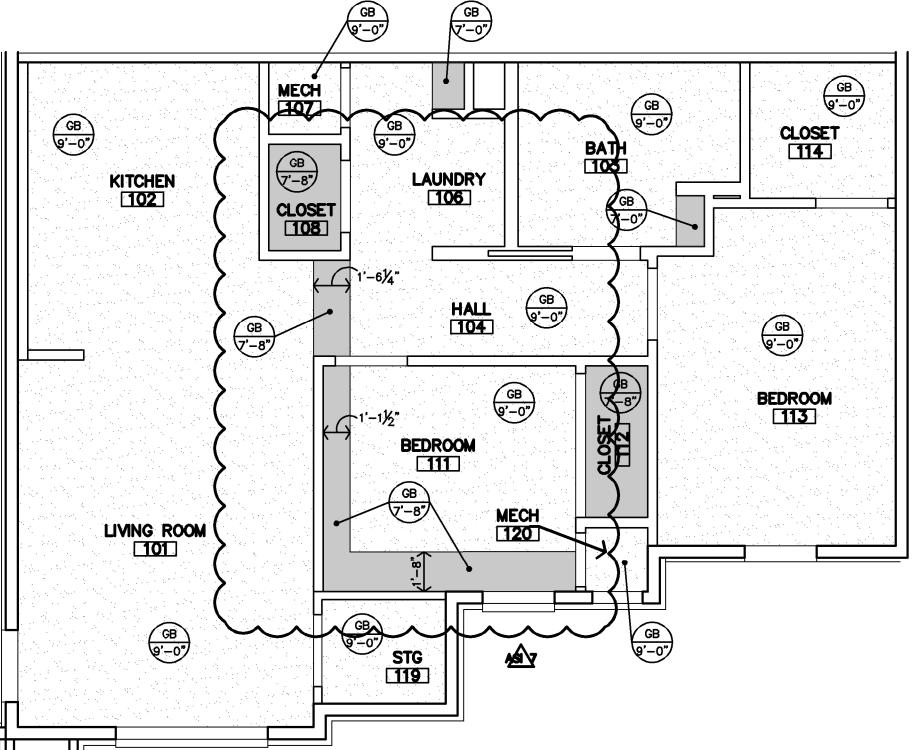
XGB EXTERIOR GYP BD (PAINTED)

CLG. TYPE

GB GYP BD (PAINTED)







### A. DESIGN CRITERIA

```
a. City of Laramie Code Administration Division Informational Bulletin #2
      c. Minimum Design Loads for Buildings and Other Structures: ASCE 7-16
Design Loads:

 a. Dead Loads

                                                    = 25 psf
                  Floors (Units)
                                                    = 15 psf
                  Interior Partitions
                  Floors (Breezeway)
                                                   = 30 psf
                                                    = 22 psf
    b. Live Loads (reducible per code UNO)
                                                    = 40 \text{ psf}
                  Residential
                  Corridors/Exits
                                                    = 100 psf
                  Mechanical/Storage
                                                    = 125 psf (non-reducible)
                  Typical Roof
                                                    = 20 psf
    c. Roof Snow Load
                  Ground Snow Load (p<sub>q</sub>)
                                                    = 30 psf (Per City Bulletin #2)
                  Flat Roof Snow Load (p<sub>f</sub>)
                                                    = 30 psf (Per City Bulletin #2)
                  Snow Exposure Factor (C<sub>e</sub>)
                                                    = 0.9
                  Snow Load Importance (I<sub>s</sub>)
                                                   = 1.0
                  Thermal Factor (C<sub>t</sub>)
                                                   = 1.0
                  Slope Factor (C<sub>s</sub>)
                                                    = 1.0
                  Unbalanced Loads for Hip & Gable Roofs
                          Windward Snow Load
                                                                     = 5.7 psf
                          Leeward Snow load from ridge to 7.61'
                                                                  = 40.2 \text{ psf}
                          Leeward Snow load from 7.61' to eave
    d. Wind Load
                  Basic Design Wind Speed, V
                                                = 115 mph (3 sec. Gust) (Per City Bulletin #2)
                  ASD Wind Speed, Vasd
                                                   = 89.1 \, \text{mph}
                  Risk Category
                                                    = ||
                  Wind Exposure
                  Internal pressure Coefficient (GC_{pi}) = ±0.18
                  Components and Cladding (psf):
                                +26/-47 +18/-35 +16/-29
                               +26/-65 +18/-49 +16/-42
                               +26/-65 +18/-49 +16/-42
                               +35/-38 +32/-35 +30/-33
                          5 | +35/-47 +32/-40 +30/-37
                  1. A is the Effective Wind Area as defined in ASCE 7 Ch. 26.
                   Linear interpolation between tabulated values is permitted
                   3. Elements with Tributary Area (A_t) > 700 \text{ ft}^2 shall be permitted to be designed using provisions for MWFRS.
     e. Earthquake Load
                  Risk Category
                  Seismic Importance Factor (I_e) = 1.0
                  S_S = 0.252g S_1 = 0.063g
                                                    D (Per Geotechnical Report)
                  Soil Site Class:
                  S_{DS} = 0.268 S_{D1} = 0.101
                  Seismic Design Category
                  Basic Seismic Force Resisting System(s)
                          Light-Frame Walls with shear panels – all other materials (ASCE 7 Table 12.2-1 Line A.17)
                          R = 2.0 C_s = 0.134 (Controls Design)
                          Light-Frame Wood Walls with structural wood shear panels (ASCE 7 Table 12.2-1 Line A.15)
                          R = 6.5 C_s = 0.041
                  Design Base Shear, V = C_s \times W = 314 \text{ kips}
                                                    = Equivalent Lateral Force Procedure (ASCE 7-16 Chapter 12.8)
                  Analysis Procedure
     f. Rain Load
                                                    = 1.8 in/hr (Per City Bulletin #2)
                 Rain Intensity (i)
3. Allowable Deflections:
                                      Total Load
                                                          Live/Snow/Wind Load
                                                                                             Absolute Maximum
          Floor Joists/Trusses
                                        L/360
                                                                  L/480
                                                                  L/360
          Roof Joists/Trusses
                                        L/240
                                                                                                     1.5"
                                                                                                   0.75"
          Wall Framing (flexible finish)
                                                                  L/240
          Wall Framing (brittle/brick finish)
                                                                  L/360
                                                                                                     0.5"
          Cantilever deflection limits are the more restrictive of 2 x the appropriate L/--- limit (e.g. 2L/360 = L/180) or absolute maximum value
          listed above, measured at the tip of the cantilever U.N.O.
4. Soil Properties:
     a. Soil properties are based on the project geotechnical report entitled Grand View Property Geotechnical Engineering Report, prepared
          by Terracon on June 10, 2024 (herein known as "Geotechnical Report").
                                                   = 2500 psf (Strip Footing)
      b. Allowable Soil Bearing Pressure
                     4000 psf (Square Footings
```

### **B. STRUCTURAL ENGINEERING DESIGN NARRATIVE**

1. McClure Engineering Company (McClure, MEC) is the Structural Engineer of Record (EOR) responsible for the documentation of structural design criteria, strength and stability of the primary vertical and lateral load-carrying systems in their completed form, and conformance of the structural design to the applicable building codes. These drawings produced by McClure convey the structural engineering design for the project, which includes the following components and systems:

a. Foundations consisting of strip footings and isolated column footings. b. Slabs on grade.

c. Residential tower framing above the slab on grade consisting of: Load-bearing wood wall and opening framing.

Gypcrete over wood T&G Sheathing over wood joists, floor and roof trusses.

d. The lateral force resisting system of the structure consisting of sheathed gypsum and wood shear walls and wood sheathed

2. The following items are Deferred Submittals. Framing intent and additional requirements for these structural components are provided within these drawings\*

a. Structural steel stair framing and connections – see general notes section "Structural Steel" | see S002 for applicable design criteria

b. Wood Floor & Roof Trusses\* – see general notes section "Wood Framing and Fastening" | see S002 for applicable design criteria. c. Connections of Wood Trusses to the supporting structure\*

\* Reference section "D. Submittal Requirements." Coordinate requirements of these drawings with those of other design consultant

drawings and the Project Specifications.

3. The following items are specifically excluded from McClure's design scope as represented on these drawings:

a. Requirements for fire rating of assemblies or fire protection of structural members b. Global stability of soil mass

c. Any exterior slabs, bollards, curbs, and any enclosures not shown on these drawings

Interior non-load-bearing wood wall or ceiling framing

e. Shoring design, formwork design, temporary bracing, and other means and methods items

### C. GENERAL NOTES

4. Contract Document Coordination:

1. All construction shall conform to the Design Codes in Section "A. Design Criteria," including all applicable standards and documents

2. Plan and detail notes provided on specific sheets within these drawings supplement information in these General Notes. Always coordinate

the requirements of these notes with what is shown within the drawings. 3. Unless noted specifically on a plan, all floor plans show framing for the floor indicated and vertical framing (walls, openings, posts, columns) above that floor.

a. The drawings contained herein are intended to be utilized in conjunction with other design consultant's drawings (architectural, civil, mechanical, etc.). It is the responsibility of the Contractor to coordinate the requirements of the drawings into their shop drawings and

b. Refer to the architectural, mechanical, electrical, and civil drawings for location and size of block outs, inserts, openings, curbs, bases &

pads, and dimensions not shown on these drawings. Refer to the architectural drawings for size and location of doors and window openings, exterior wall assemblies, and floor, wall, and

roof finishes. Refer to the mechanical and electrical drawings for additional information including locations of mechanical units, d. Omissions or conflicts between various elements of the drawings, notes and details shall be brought to the attention of the engineer and resolved before proceeding with the work.

5. Use of Drawings in Construction: a. The Contractor shall verify all dimensions and conditions at the job site before commencing work and shall report any discrepancies to

the engineer responsible for the design of that work. b. Do not use scaled dimensions; use written dimensions or, where no dimension is provided, consult the engineer for clarification before

proceeding with the work c. Details and keynotes shown shall be incorporated into the project at all appropriate locations, whether or not they are specifically

referenced on the drawings. d. McClure may provide the contractor with electronic files for their convenience and use in the preparation of shop drawings. These electronic files are not construction documents; the contractor is not relieved of his/her duty to fully comply with the contract documents, including the need to confirm and coordinate all dimensions and details, take field measurements, verify field conditions, and coordinate

the contractor's work with that of other contractors for the project. 6. Changes During Construction: a. Openings shall not be cut or otherwise made in any structural member unless that opening is specifically shown on these drawings. The

Contractor shall seek approval in writing from the engineer for any design incorporating additional openings. b. Support details shown for Architectural, Mechanical, Electrical, and Plumbing equipment as well as elevators is based upon available

information from the manufacturer (if any). The Contractor shall coordinate requirements of actual equipment supplied with details and shall provide any additional framing required. c. The Contractor has the responsibility to notify the engineer of any architectural, mechanical, electrical, or plumbing load imposed on the

structure that is not documented on the Contract Documents or differs from what is originally shown. Provide documentation of location, load, size, and anchorage of all undocumented loads in excess of 250 lbs. 7. Construction Sequence and Methods:

a. These drawings and the related Specifications represent the finished structure and, except where specifically shown, do not indicate the method or means of construction. Loads on the structure during construction shall not exceed the design loads indicated in Section "A. Design Criteria" as a maximum. The Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, and sequence.

b. The Contractor is responsible for compliance with all applicable job-related safety standards proceeding from governing organizations

c. It is the responsibility of the Contractor to ensure the stability of the structural elements during construction as a result of means and sequence by providing shoring, bracing, etc. as required. i. Stability considerations should include all applicable temporary construction and environmental loads per ASCE 37 which may

include wind and seismic forces. Temporary bracing shall remain in place until positive connection is made between the braced element and the floor/roof diaphragm or foundation above and below, and those diaphragms in turn are structurally complete and connected to the vertical

elements of the lateral force resisting system. This is a means and methods item. The Contractor may at their discretion employ a Specialty Structural Engineer, licensed in the state where the project is located, for the design of any temporary bracing, lifting, rigging, and shoring. Any sealed drawings, calculations, reports, etc. prepared for

construction stability shall be submitted to the engineer for review. d. The Contractor shall consider the effects of thermal movements due to hot or cold weather construction and the potential for extreme

temperature variations before the structure is complete. e. The Contractor is responsible for the protection and repair of any adjacent existing structures, surfaces, and areas which may be damaged as a result of the work.

#### D. SUBMITTAL REQUIREMENTS

Submittal Procedures:

a. The Contractor shall provide all submittals in PDF format unless otherwise requested or indicated in the Project Specifications. b. All submittals must be reviewed by the Contractor prior to McClure's review. The Contractor is responsible for reviewing each submittal for basic coordination with these drawings and to verify that all the required components of the submittal are incorporated. The

submittal must bear the electronic review stamp of the Contractor before McClure will proceed with the review. c. Incomplete submittals or submittals not meeting the requirements of this section will not be reviewed. McClure will notify the contractor that the submittal is incomplete or unacceptable and that resubmission is required.

i. Submittals requiring engineering calculations for all or a portion of the work are considered incomplete without the sealed calculations and will not be reviewed.

Shop Drawings shall be original drawings. Submissions incorporating any portion or reproduction of the contract documents will not be reviewed.

Deferred Submittals not meeting the seal requirements of section D.2.b are considered incomplete and will not be reviewed. Resubmittals with comments from a previous review left unaddressed or without any response will not be reviewed.

d. Allow two weeks for review of all submittals unless an agreement for expedited review is made in writing by McClure. e. McClure's submittal review scope of work includes a single submittal review and one review of the revised submittal if required (two reviews total of the same submittal). Time required for more than two reviews of a submittal is considered an additional service and will be billed hourly. McClure reserves the right to withhold review of a submittal surpassing this allowance until proper billing to the responsible party can be established.

f. Submittals must be returned to the Contractor by McCure bearing a stamp marked "Reviewed No Exception Taken" or "Reviewed With Comments/Exceptions" prior to proceeding with the work. Submittals marked "Reject/Resubmit" must be revised according to the comments provided prior to commencing with the respective scope of work.

Deferred Submittals: a. See Section "B. Structural Engineering Design Narrative" for the list of items considered Deferred Submittals.

b. Deferred Submittals shall bear the seal of a professional engineer licensed in the state where the project is located. If the project requires a licensed Structural Engineer (S.E.) as the Engineer of Record according to state laws, the same qualification level applies to the engineer sealing the Deferred Submittals.

Deferred Submittal items shall not be installed until the Deferred Submittal documents have been approved by the Building Official.

a. Submittals (product data, test records, shop drawings, and/or calculations) are required for the following:

Submittal Name	Items Required:							
	Product Data	Shop Drawings	Test Records	Engineering Drawings	Engineering Calculations			
Concrete Mix Designs	Х		Х					
Concrete Break Reports			Х					
Concrete Reinforcing Layout		X						
4. Concrete Anchor Bolts &	X	X						
Embedded Plates								
5. Concrete Anchors (Post-	X							
Installed)								
6. Post-Installed Anchor	X				X			
Substitutions (If used)								
<ol><li>Post-Installed Connection</li></ol>	X			X	X			
Geometry Alteration (If used)								
8. Steel Stair Framing incl.				X	X			
Connections to Supports								
Wood Framing Materials	X							
10. Wood Floor & Roof Trusses incl.				X				
Reactions								
11. Wood Truss Connections to				X	X			
Supporting Structure								
12. Specialty Wood Fasteners	X							
13. All Cladding Systems &	X			X	X			
Attachments as Identified in the								
Architectural Drawings (If used)								

- b. "Product Data" may indicate mill certifications, material data sheets, Evaluation Service Reports (ESRs), etc. See requirements of each material section of the general notes for further information. c. Where "Engineering Drawings" and/or "Engineering Calculations" are indicated, the submittal must comply with the requirements of
- item "2. Deferred Submittals" above. Submittals For Record:
- a. The following items impact the structural design and therefore must be submitted to the engineer; however, they do not require review.
- They will be returned stamped as "Received For Record". Mechanical Equipment Shop Drawings with Weight

Brick & Stone Veneer with Weight

#### E. CONCRETE

1. Reinforced concrete shall have the following minimum 28 day compressive strengths:

a. Slab on grade, unless noted otherwise 4000 psi normal weight b. Foundations 5000 psi normal weight

2. All concrete exposed to weather shall have 6% (+- 1%) air entrainment.

3. Submit mix designs for all concrete mixes prior to placement. All submittals shall include the following: a. Batch quantities including admixture dosage rates.

b. Strength test results for trial mixes.

c. Aggregate source(s) and gradation(s). d. Product data for cement, fly ash and other cementitious materials.

e. Product data for all admixtures. 4. Provide protection for reinforcing bars as follows:

a. Concrete cast against and permanently exposed to earth

b. Concrete exposed to earth and weather (formed) #5 and smaller

#6 and larger c. Concrete not exposed to weather and not in contact with ground: Slabs and walls

Beams and columns 5. Interface of all slab and foundation construction joints shall be roughened with 1/4" amplitude. Surface of construction joints shall be clean

and free of laitance. Immediately before new concrete is placed, construction joints shall be wetted and standing water removed. 6. Construction joints in walls shall be keyed and placed at locations approved by the Architect and Structural Engineer.

7. Provide PVC waterstops in all below grade construction joints and at other locations as shown. 8. Provide compressible filler and sealant in all slab-on-grade and wall and column interfaces that are not doweled together.

9. All column pockets shall be filled with concrete after column is erected. 10. Sleeves and openings in slabs not shown on structural drawings or outside the parameters of typical sleeve details are not permitted, unless approved by the Structural Engineer.

11. Conduit and pipes embedded in slabs, walls, or grade beams shall be no larger in outside dimension than 1/3 the overall member thickness and shall be placed no closer than 3 diameters or widths on center.

12. Conduits and pipes shall not be permitted in concrete pilasters or columns. 13. Provide concrete housekeeping pads under all mechanical, plumbing, fire protection, and electrical equipment per plans. Pads shall extend beyond equipment a nominal 6" on all sides. Apply a bonding agent to existing concrete slab prior to pouring of housekeeping pad. Provide

14. At floor drains, locally slope floor towards drain. See architectural and plumbing drawings for drain locations. 15. Foundation walls shall be temporarily braced until positive attachment is made to floor framing per details. This is a means and methods

#### Slab on Grade

1. Slab shall be constructed as shown on plans. 2. Slab-on-grade shall be founded on 6" deep 3/4" clean aggregate base.

3. The existing fill shall be removed a minimum of 18" below slabs on grade and footings. The Geotechnical Report notes that it may be necessary to remove and replace up to 6ft of existing fill, consult the on-site geotechnical representative. Refer to the geotechnical report for risk assessment and verify with ownership what direction shall be taken. At a minimum, per the geotechnical report, the existing fill shall be removed and filled with 12" engineered fill consisting of low volume change material such as rollstone or wastelime. Granular fill shall be compacted to a minimum of 98% of the ASTM D698 maximum dry Standard Proctor density. The 6" aggregate base shall not be included in

the 12" depth required for the low volume change layer.

4. Provide joints at 30 x slab thickness (+-) in both directions and located to conform to bay spacing wherever possible (at column centerlines, half bays, third bays, etc.). Submit control joint layout to Architect for any exposed concrete surface.

5. Saw cut control joints shall be done late enough to prevent raveling of the cut edges and early enough to prevent cracking of the slab ahead

6. Concrete slab to be cured according to ACI Standards. Concrete slab cure to be compatible with any sealer, grout, or adhesive that may be

used on the floor later. At floor drains, locally slope floor towards drain. See architectural and plumbing drawings for drain locations.

#### Subsurface Requirements

Foundation design is based on geotechnical report by Terracon, dated June 10, 2024.

A geotechnical representative shall be retained on site for all construction activity to verify that all proper requirements have been met to

meet the design requirements outlined in the geotechnical report. Representative shall be Terracon or someone familiar with all documents of the geotechnical investigation provided for the project.

The Contractor shall provide dewatering of excavations from surface water and ground water. Do not place concrete if water is present at base of excavation.

Geotechnical Testing Agency Requirements a. If the geotechnical representative on site takes exception to anything in the Geotechnical Report and requires additional field investigation to clarify those expectations, the cost of such investigation shall be included in the additional fee for field quality control and testing and identified as such. All other exceptions, the cost of such investigation shall be included in the additional fee for field

quality control and testing and identified as such. All other exceptions shall be documented and approved by the geotechnical engineer. The geotechnical representative must have read all documents pertaining to the geotechnical report for the project and understood and accepted the criteria contained in the report.

c. The geotechnical representative must understand and be able to make decisions affecting the work for field observations and conditions described in the report during construction. The representative must be capable of advising the owner or contractor for procedures regarding, but not limited to: sub-grade preparation, dewatering activities, and other construction considerations.

### F. REINFORCING FOR CONCRETE

a. All reinforcing steel to be ASTM A615, Grade 60, deformed bars, unless noted otherwise.

i. Any reinforcing to be welded shall be ASTM A706 and welded with E80 electrodes. Alternatively, ASTM A615 reinforcing may be welded with E90 electrodes and proper preheat according to AWS D1.4.

iii. E70 electrodes are not permitted for welding rebar. b. Welded wire fabric shall be plain wire conforming to ASTM A1064. Welded wire fabric shall be in flat sheets.

c. All reinforcing bars to be detailed and placed in accordance with the ACI "Manual of Standard Practice for Detailing Reinforced Concrete

Structures" specifications. d. All reinforcing, including dowels, shall be securely tied and cast with the lower member. Placing reinforcing after concrete has been placed will not be permitted

e. Field bending of reinforcing partially embedded in concrete will not be allowed unless specifically noted on the drawings or approved by

the Structural Engineer. f. All reinforcing bars shall be contact lap spliced or doweled as follows, unless noted otherwise:

						,		
_		Tension	Developm	ent and S	plice Lengt	hs for $f_c =$	4,000psi	
_		Devel	lopment Class "B" Splice Standard 90 deg. F					j. Hook
	Bar Size	Top Bar	Other Bar	Top Bar	Other Bar	Embed	Leg Length	Bend Dia.
_	#3	19	15	24	19	6	6	2-1/4
	#4	25	19	32	25	7	8	3
	#5	31	24	40	31	9	10	3-3/4
	#6	37	29	48	37	10	12	4-1/2
	#7	54	42	70	54	12	14	5-1/4
	#8	62	48	80	62	14	16	6
	#9	70	54	91	70	15	19	9-1/2
	#10	79	61	102	79	17	22	10-3/4

1. Straight development and Class "B" splice lengths shown in above tables are based on uncoated bars assuming center-to-center bar spacing ≥ 3\*d<sub>b</sub> without ties or stirrups or ≥ 2\*d<sub>b</sub> with ties or stirrups, and bar clear cover ≥ 1.0\*d<sub>b</sub> Normal weight concrete as well as no transverse reinforcing are both assumed.

2. Standard 90 deg. hook embedment lengths are based on bar side cover ≥ 2.5" and bar end cover ≥ 2" without ties around hook.

3. For special seismic considerations, refer to ACI 318 Code Chapter 21. All tension splices shall be Class "B" splices unless noted otherwise on plans.

	Tension Development and Splice Lengths for $f_c = 5,000$ psi										
_		Develo	opment	Class "	B" Splice	Stand	ard 90 deg	g. Hook			
	Bar	Тор	Other	Тор	Other	Embed	Leg	Bend			
	Size	Bar	Bar	Bar	Bar		Length	Dia.			
	#3	17	13	22	17	6	6	2-1/4			
	#4	22	17	29	22	6	8	3			
	#5	28	22	36	28	8	10	3-3/4			
	#6	33	26	43	33	9	12	4-1/2			
	#7	49	37	63	49	11	14	5-1/4			
	#8	55	43	72	55	12	16	6			
	#9	63	48	81	63	14	19	9-1/2			
	#10	70	54	91	70	15	22	10-3/4			

- 1. Straight development and Class "B" splice lengths shown in above tables are based on uncoated bars assuming center-to-center bar spacing ≥ 3\*d<sub>b</sub> without ties or stirrups or ≥ 2\*d<sub>b</sub> with ties or stirrups, and bar clear cover ≥ 1.0\*d<sub>b</sub> Normal weight concrete as well as no transverse reinforcing are both assumed.
- 2. Standard 90 deg. hook embedment lengths are based on bar side cover ≥ 2.5" and bar end cover ≥ 2" without ties around hook.
- For special seismic considerations, refer to ACI 318 Code Chapter 21. 3. All tension splices shall be Class "B" splices unless noted otherwise on plans.
- g. All welded wire fabric shall be lapped 12" or 48 wire diameters, whichever is greater. Provide (2) #5 x 6'-0" diagonals at all corners of openings and re-entrant corners, unless noted otherwise.
- i. Dowels between foundation and walls shall be installed and shall be the same grade, size, and spacing as the vertical wall reinforcing, Provide corner bars to match longitudinal reinforcing in all footings. Provide (2) corner bars at tee intersections.

k. Provide 200 pounds of miscellaneous straight bar reinforcing (#4 & #5) to be used in field for special conditions. Labor for placing same

to be included. 2. Slabs and Slabs-on-Grade

a. All slabs on grade to be reinforced with 6x6 – W2.9xW2.9 welded wire fabric, unless noted otherwise.



NOTICE: McClure Engineering Co. is not responsible or liable for any issues, claims, damages, or losses (collectively Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors guidance with respect to any alleged errors, omissions, inconsistencies, ambiguities, or conflicts contained within

WYOMING CERTIFICATE OF AUTHORITY NO. E-1790 EXPIRES: DECEMBER 31, 2025

the Plans or Specifications.



12/31/2024 I HEREBY CERTIFY THAT THIS **ENGINEERING DOCUMENT WAS** PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND

THAT I AM A DULY

LICENSED PROFESSIONAL ENGINEER

UNDER THE LAWS OF THE STATE OF WYOMING. ASI #1 09/27/202

PROJECT NUMBER SET ISSUE DATE 2024000185 07/17/2024 **ENGINEER** DRAWN BY CHECKED BY CEL MDH

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DRAWING NO. **S00** 

#### **G. WOOD FRAMING AND CONNECTIONS**

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1. Install rough carpentry according to the American Institute of Timber Construction Manual.
Material:

 Sawn lumber

            Sawn lumber shall be grade stamped and visually graded with maximum 19% moisture content
             All members shall meet strength requirements in NDS "National Design Specification for Wood Construction"
             Joists, rafters, and nailers with nominal depth 8" or less shall be Southern Pine (SP) or Douglas Fir-Larch (DFL), No. 2 or better.
            Joists, rafters, and nailers with nominal depth greater than 8" shall be Southern Pine (SP) or Douglas Fir-Larch (DFL), No. 1 or
       v. All exterior posts shall be Western Red Cedar No. 2 or better.
       vi. Bearing and shear wall studs, and wall plates, shall be Douglas Fir-Larch (DFL), No. 2 or better.
    b. Structural Composite Lumber
            SCL shall meet material specifications in ASTM D5456
            SCL shall include laminated veneer lumber (LVL), laminated strand lumber (LSL), oriented strand lumber (OSL) and parallel strand
             lumber (PSL)
       iii. All LVL shall be stress class 2.0E-2600F.
          Other SCL materials shall be graded as indicated on the plans.
    c. Glued-laminated timber (GluLam) shall be manufactured and identified as required in ANSI/AITC A-190.1 and ASTM D3737
       i. GluLam shall be graded as indicated on the plans.
     d. Structural Panels
       i. All plywood or oriented strand board (OSB) panels shall meet the strength requirements in Department of Commerce (DOC) PS 1
             and PS 2 or ANSI/APA PRP 210.
       ii. All structural panels (walls, floor and roof) shall meet the Structural 1 grading standard
    e. Connectors and Fasteners
       i. Metal connectors and associated fasteners used for the applications indicated shall meet the following minimum standards:

    Untreated Lumber

    a. Connectors

                 b. Bolts and Anchor Rods ......ASTM F1554 Gr36
                  c. Nails and Staples .....ASTM F1667
             2. Sodium Borate (SBX) Pressure Treated Lumber
                                                  ...ASTM A653 G90
                 a. Connectors
                                                  ...ASTM A307
                 b. Bolts
                 c. Anchor Rods
                                                  ...ASTM F1554 Gr 55
                                         ......ASTM F1667 with A153 Hot Dipped Galvanized
                 d. Nails and Staples
            3. All Other Pressure Treated Lumber (e.g. ACQ-C, ACQ-D, CA-B, CBA-A, ACZA)
                                           .....AISI SS Type 304 or 316

    Connectors

                                                  ...ASTM A193, GrB7
                 b. Bolts
                                          .....ASTM A193, GrB7
                 c. Anchor Rods
                                         ......ASTM F1667 using AISI Type 304 or 316 Stainless Steel
                  d. Nails and Staples
             Fasteners utilizing dissimilar materials are prohibited.
            Power driven fasteners shall comply with NES NER-272.
             Fastener installation whether power driven or otherwise shall be in accordance with the Building Code and the manufacturer's
             recommendations. In general fastener heads shall be installed nominally flush with the outer ply of the connection. Sheathing and
             support framing damaged by overdriven fasteners shall be removed and replaced.
       v. Aluminum fasteners and flashing shall not be in contact with pressure treated lumber.
General:
   a. All light framed wood construction shall be fastened as indicated on the plans. Connections not detailed shall be fastened in
         accordance with the table below
    b. All framing in direct contact with water, soil, concrete, masonry, or permanently exposed to weather shall be preservative treated
         lumber in accordance with the AWPA Standard U1 and M4
     c. All framing indicated to be fire-retardant treated or fire resistive on the drawings (Architectural or Structural) shall comply with AWPA U1
         UCFA, Type A or ICC-ES ESR 2645 and shall have UL FR-S surface burning characteristics.
     d. All wood shall be stored on site and protected from the elements to prevent warping, cupping, bowing, crooking and twisting. Use only
         material that is straight. All stored wood shall be held off the ground with sacrificial dunnage blocks.
     e. Wood connectors shall be installed to prevent wood from splitting or otherwise damaging either member.
    f. Use 4x4, 4x6 and 6x6 columns as shown on plans. Built-up sections of 2x studs shall not be substituted for timber posts.
     g. All multi-ply beams, joists and headers shall be fastened together.
             Fasten sawn lumber members per schedule below.
            Fasten structural composite lumber per manufacturer's literature.
    h. Standard cut washers shall be used under bolt heads and nuts bearing against wood, unless noted otherwise per shear wall anchorage
    i. Wall studs are designed based on being fully braced by sheathing. Design of temporary or permanent blocking or bridging for support
         of construction loads by unsheathed walls is the responsibility of the contractor.
         Wood joists shall bear on the full width of supporting members (stud walls, beams, nailers, etc.) unless noted otherwise.
        Subject to compliance with the project requirements, wood connectors, joist hangers, post caps and bases, holdowns, and related
         hardware shall be manufactured by Simpson Strong-Tie Company, Inc. San Leandro, CA.
          Contractor shall follow the manufacturer's latest recommendations for installation of connectors.
            Other manufacturers may be acceptable. Submit substitution request demonstrating that the proposed hardware has the same or
             greater capacity for each connection. Allow two weeks for review.
    I. All beams and joists not bearing on supporting members shall be framed with Simpson joist hangers. Use LU (or equal) for single joists
         and type LUS for double joists, unless noted otherwise. The joist hangers shall be installed using nails or screws supplied by the hanger
         manufacturer as required for the hanger type.
     m. Bottom plates of all bearing walls on concrete shall be anchored with 3/8" diameter x 6" screw anchors spaced not more than 4'-0" o.c.,
         unless noted otherwise. Sill plate anchors shall be located a maximum of 1'-0" from corners, ends of walls and sill plate splices.
         Provide (2) anchors minimum in each sill plate segment Refer to plans and details for shear wall anchorage requirements.
     n. Nailers shall be anchored to steel beams and columns with 1/2" diameter A307 bolts with required washers at a maximum spacing of
        24" on center (alternate sides), unless noted otherwise.
    o. Wall studs, jamb studs, and beam support studs shall have adequate vertical blocking installed to transfer all vertical loads to the
        foundation
 4. Wood Floor and Roof Trusses:
    a. Provide wood trusses capable of withstanding the design loads within the limits and under the conditions indicated. Truss design shall
         be in accordance with the Building Code and TPI-1 Nation Design Standard for Metal Plate Connected Wood Truss Construction.
     b. Wood trusses shall be of sawn lumber with 2x nominal thickness.
     c. In addition to the loads indicated, wood trusses shall be designed for all applicable wind, seismic, and snow (including drift) loads
         required by Building Code and noted in plan. Truss design and shop drawing preparation shall be supervised by a registered
         professional engineer licensed in the state where the project is located.
     d. Submittals shall be signed and sealed and include comprehensive truss layout plans, design calculations that indicate species and
         grades of lumber, design stresses, size and type of connector plates used.
     e. Fabricator shall determine truss diagonal locations. Truss configurations shown on drawings are diagrammatic only. Bearing points
         shall coincide with intersections of diagonals and chords.
        Truss member design shall consider unbalanced snow load with full dead load, as well as full dead and snow load.
     g. Roof trusses shall be designed for the following:
            Dead load = 15 psf
             Live load
                         = 20 psf, on the top chord horizontal projection
      iii. Dead load
                           = 10 psf on the bottom chord.
            Wind uplift = 28 psf
            End / Gable Wind Load = ±23 psf
     h. Floor trusses shall be designed for the following loads:
            Dead Load = 25 psf + 15 psf partition dead load
                         = 40 psf: Private Rooms, offices and corridors serving them
                             = 100 psf: Common and public areas, including stairs and landings
                             = 125 psf: Mechanical and communication rooms
    i. The maximum allowable deflection shall be:
            Roof Trusses: Total Load: L/240, Roof Live or Snow Load: L/360
            Floor Trusses: Total Load: L/360, Live Load: L/480
     j. The manufacturer shall provide all open web trusses and accessories as shown on the structural and architectural drawings and as
         required for a complete project.
    k. All truss to truss connections and truss to supporting member connections shall be designed and detailed by the truss supplier and the
         size and type of connectors included in the shop drawing submittal. Coordinate size, species and grade of supporting chord and web
         members with the truss hanger selected.
    I. All temporary and permanent bracing shall be in accordance with the TPI standards for bracing. The bracing shall be furnished and
         installed by the Contractor. Do not use ceilings as uplift bracing at truss bottom chord.
     m. Girder trusses shown on drawings shall be designed to carry concentrated reactions from supported members.
     n. Wood trusses shall be handled and erected in accordance with TPI HIB-91. Trusses shall be unloaded and stored in bundles in an
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upright position out of contact with the ground until ready for installation.

where such trimming will not impair the load carrying capacity of the truss.

o. Any damage to the trusses shall be brought to the immediate attention of the Structural Engineer and truss supplier. Field repair and

modification of trusses shall not be made with prior written approval from the supplier, except for nominal trimming to correct length

#### **H. WOOD SHRINKAGE**

1. IBC 2304.3.3 requires that architectural, mechanical, electrical, and plumbing systems be designed to accommodate movement due to

shrinkage. McClure Engineering Co. takes no responsibility for the naturally occurring shrinking that will occur.

2. Estimated values are based upon the following moisture content: a. At installation (MC) = 19%

b. At equilibrium (EMC) = 8%

3. The following recommendations are intended to minimize the potential issues associated to wood shrinkage. Implementation and liability are ultimately up to the contractor or design professional responsible for the impacted trade. a. Mechanical, Electrical, Plumbing

i. Allow construction gaps in the wood framing to close by delaying installation of MEP as long as possible to allow for additional dead load to be installed.

Provide oversized or long slotted holes at pipe penetrations. Holes must be within conformance of typical penetration details.

Rigid connections shall be adjusted before completion of construction of closing of wall and ceiling assemblies.

v. Roof Drains shall utilize adjustable fittings. Fittings must be adjusted at the completion of construction and then as required to maintain proper drainage.

b. Architectural Considerations Stucco, EIFS and brittle finishes shall have horizontal expansion joints, slip joints with appropriate waterproofing.

Brick and stone finishes shall have ties that accommodate differential movement. iii. Provide adjustable thresholds or transitions at rigid transitions such as CMU or concrete stair and elevator shafts.

c. Construction tolerance

i. Limit shortening due to nesting by cutting all studs level square and tight against plates. Structural wood panels shall have ½" relief gaps at each floor to limit bulging.

iii. Floor sheathing shall have 1/8" gaps on all sides during installation to accommodate movement.

iv. Shear wall hold downs shall be check and retightened immediately prior to sheathing walls. v. Delay gyp topping around concrete and CMU stair or elevator shafts until competition of construction.

d. Material storage

iv. All vertical sheet metal down spouts shall have intermediate slip joints.

i. Stored materials shall be covered and elevation from the elements. ii. Do not allow water to pond on floor sheathing. Provide drain holes if required to allow water to quickly drain if water does temporar-

e. Post occupancy i. McClure recommends a review of roof drains every 3 months for the first 24 months of occupancy and then annually. Adjust drains

as required to maintain watertight integrity. McClure recommends review of joints at exterior doors, windows and finish transitions. Waterproof as needed where original joints

fail per the architect's recommendations. Remedial self-leveling work may be required around concrete or CMU stair and elevator towers to accommodate shrinkage.

#### I. POST-INSTALLED ANCHORS TO CONCRETE AND MASONRY

1. Post installed anchors shall be expansion, adhesive, or screw anchors as indicated in the details, unless noted otherwise. Only use the anchor type indicated. All anchors on the project of each type must be by the same manufacturer, see below for substitution requirements.

a. Expansion anchors: i. Concrete:

Hilti Kwik Bolt TZ (ICC-ES ESR1917). Simpson Strong-Bolt 2 (ICC-ES ESR3037).

Powers Power-Stud+ SD2 (ICC-ES ESR2502).

b. Adhesive anchors (threaded rods shall be ASTM A193 B7 for all anchors): i. Concrete:

Hilti HIT RE 500-SD (ICC-ES ESR2322) or Hilti HIT-HY 200 (ICC-ES ESR3187). Simpson AT-XP (UES ER263), SET-XP (ICC-ES ESR2508) or ET-HP (ICC-ES ESR3372)

Powers Pure 110+ (ICC-ES ESR3298), PE1000+ (ICC-ES ESR2583), Pure 50+ (ICC-ES ESR3576), AC 200+ (ICC-ES ESR4027), or AC100+ Gold (ICC-ES ESR2582)

c. Screw anchors: i. Concrete:

Hilti Kwik HUS EZ (ICC-ES ESR3027) Simpson Titen HD (ICC-ES ESR2713)

Powers Wedge-Bolt+ (ICC-ES ESR2526)

2. Post-installed anchors shall only be used where specified in the drawings. The Contractor shall obtain approval from the engineer prior to

using post-installed anchors for missing or misplaced cast-in-place anchors. 3. All personnel installing anchors shall be trained and certified by the anchoring system manufacturer or by ACI. Contractor shall submit current certifications for all personnel. ACI certification required for all personnel installing adhesive anchors in a horizontal or overhead conditions. If a failure occurs at any time during testing or construction, personnel shall be retrained and recertified.

4. Installation:

a. Do not cut existing reinforcing. b. The hole through the supported steel member shall be 1/16" larger in diameter (1/8" for screw anchors) than the anchor unless noted

otherwise. Use plate washers with a standard size hole welded to steel members where oversized holes must be used. Holes shall be drilled per the manufacturer's written instructions as outlined in the ESR.

d. Where applicable, installation shall follow cleaning procedure indicated in the ESR. Holes shall be made with a hammer drill. Use of a

core drill is not allowed. 5. Special inspection shall be provided for all post installed anchors as required by the building code and/or ICC-ES report. Written special inspection reports shall be submitted to the registered design professional in responsible charge by the special inspector. The reports shall record and report the following as a minimum:

a. One of every ten anchors installed by each technician in locations listed below shall be randomly tested in direct tension. At least one anchor shall be tested on each day that anchors are installed.

i. Test anchors in the following locations: Shear wall hold down anchors.

Shear wall sill plate anchors.

Braced frame base plate anchors.

Anchors supporting dead or live loads in tension.

ii. Test anchor to twice the allowable tension load as provided in the ESR. Test load shall not exceed 80 percent of the yield strength of the anchor  $(0.8 \times A_{se} \times f_{va})$ .

Post-installed anchors shall not be tested using a torque wrench.

If any anchor fails quality control testing, all anchors of the same type shall be randomly tested until (10) consecutive anchors pass. Resume normal frequency after this with approval of the engineer. The failed anchor(s) shall be removed and the affected area patched per engineer's direction. Consult the engineer for anchor replacement instructions. The cost for additional work and testing required due to anchor failure is the responsibility of the installing contractor.

b. Prior to and during installation of anchors, inspection and report shall include: Installer shall have reviewed manufacturer's ESR report and written installation procedures and has been certified by the

manufacturer or ACI. General concrete or CMU block conditions (cracked or un-cracked, wet or dry, grouted or hollow, etc).

Whether manufacture's written procedures for preparation of hole were followed. Indicate if hole is wet or dry.

Whether hole was made with a hammer drill Whether manufacture's written procedures for anchor installation were followed.

Embedment depth and concrete or block thickness.

vii. Anchor diameter, length and type. c. After installing anchors, inspection and report shall include:

All test locations.

Anchor size and/or type.

Applied load, loading procedure, load increments and rate of loading.

Mode of failure. v. Photographs of test equipment and typical failures.

6. Substitution requests for products other than those listed above shall be submitted to the engineer with calculations that are prepared and sealed by a registered structural engineer at least two weeks prior to scheduled installations. Calculations shall demonstrate that the substituted product will achieve an equivalent capacity using the appropriate design procedure required by the building code. Product ICC-ES code reports shall be included with the submittal package.

<u>J. </u>	STRUCT	URAL STEEL	
1.	Materia	als:	
	a. Ma	aterials shall conform to the follo	wing, unless noted otherwise.
	i.	Rolled WF shapes	ASTM A992
	ii.	Plates and Angles	ASTM A572 Grade 50
	iii.	Channels	ASTM A36
	iv.	HSS: Rectangular	ASTM A500, Grade C
	٧.	HSS: Round	ASTM A500, Grade C
	vi.	Bolts	ASTM F3125
		<ol> <li>All bolts shall be Grade A</li> </ol>	
			shall be Grade A490 or F2280
	vii.	Nuts	ASTM A563 DH or A194
	viii.	Washers	ASTM F436
	ix.	Anchor Bolts	ASTM F1554 Grade 36, UNO
	х.	Threaded Rod	ASTM A36
	xi.	Studs	ASTM A108, Type B Nelson headed shear stud connectors or equal.
	xii	Electrodes	Matching weld metal, 70 ksi minimum strength.
		nishes	
	l. 		be exposed in accordance with SSPC SP3 "Power Tool Cleaning".
	ii.		reproofed, field welded, in contact with concrete, or high-strength bolted.
	iii.		exposed to view or weather shall be galvanized in accordance with ASTM A123 for framing members
		and ASTM A153 for bolts and	
_	iv.		s shall be cold galvanized in accordance with ASTM A780.
2.	Fabrica		us. I
		eel Fabricator shall be AISC Cer	
			ed, fabricated, and erected in accordance with the latest edition AISC 303 "Code of Standard
		actice for Steel Buildings and Br	
			is must be submitted to the engineer for review prior to fabrication.
	_		fessional engineer registered in the state where the project is located for the design and detailing of:
	i. ::	Steel Stairs.	
2	ii.	Temporary bracing.	
3.			and any last the account of the Color of the
			awings is the responsibility of the fabricator.
			d landings shall be filled with 2 in. of concrete (4,000 psi).
			awings including engineering calculations for each stair. Drawings shall include all members and
		nnections, including connections	
	d. Ur	iless noted, all connections to st	eel structure shall be welded and all connections to wood shall be post-installed anchors (screw or

Check supporting members for local effects at connections and provide stiffeners, doublers, etc. as necessary.

e. Supporting members have been designed for all loads imposed by stair system.

Live Load = 100 psf or 300 lb. point load on 4" square area.

Dead Load = Self weight plus 10 psf superimposed dead load.

f. Design stairs for the following loads:

Live Load = L/480

ii. Total Load = L/360

g. Design stairs for the following deflection criteria:

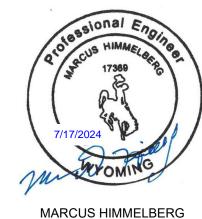
	Numbei	or spa	cing, of	fastener	s require	ed per co	onnectio	n			
Connection <sup>2, 3</sup>	Nail lengths are minimum, nominal lengths, in inches. Nail shank diameters are minimum, nominal diameters, in inches.										
	3 ½ x	3 x	3 1/4 x	3 x	2 ½ x	3 1/4 x	3 x	2 % x	2 x	2 1/4 X	2 1/4 x
	0.162	0.148	0.131	0.131	0.131	0.120	0.120	0.113	0.113	0.105	0.099
Equiv. Common Nail	16d	10d			8d				6d		
			loor Fra	aming							
Joist to band joist	3	5	5	5	N/A	6	6	N/A	N/A	N/A	N/A
Ledger strip	3	4	4	4	6	4	4	N/A	N/A	N/A	N/A
Joist to sill or girder	3	3	3	3	3	4	4	N/A	N/A	N/A	N/A
Blocking between joist or rafter to top plate	3	3	3	4	3	4	4	N/A	N/A	N/A	N/A
Bridging to joist	N/A	N/A	N/A	N/A	2	3	3	3	4	3	4
Rim joist to top plate	8" o.c.	6" o.c.	6" o.c.	6" o.c.	6" o.c.	6" o.c.	4" o.c.	6" o.c.	3" o.c.	3" o.c.	3" o.c
Built-up Girders & Beams - Spacing along edges,		24" o.c.	24" o.c.	24" o.c.	16" o.c.			N/A	N/A	N/A	N/A
- # at ends & splices	3	3	3	3	4	3	3				
,		Ceiling	and Ro	of Fran	ning						
Ceiling joists to plate	3	4	5	5	5	5	5	6	N/A	N/A	N/A
Ceiling joists, laps over partitions	3	4	4	4	6	4	4	N/A	N/A	N/A	N/A
Ceiling joist to parallel rafter	3	4	4	4	6	4	4	N/A	N/A	N/A	N/A
Collar tie to rafter	3	3	4	4	5	4	4	N/A	N/A	N/A	N/A
Jack rafter to hip, toe-nailed	3	3	4	4	5	4	4	N/A	N/A	N/A	N/A
Jack rafter to hip, face nailed	2	3	3	3	3	4	4	N/A	N/A	N/A	N/A
Roof rafter to plate	3	3	3	3	3	4	4	5	5	5	6
Roof rafter to 2-by ridge beam (driven through beam into end of ridge)	2	3	3	3		4	4	N/A	N/A	N/A	N/A
Roof rafter to 2-by ridge beam (toe-nail rafter to beam)	2	3	3	3	3	4	4	N/A	N/A	N/A	N/A
(too man randi to boarn)		<u> </u>	Wall Fra	mina							
Top or sole plate to stud (End nailed)	2	3	3	3	5	4	4	N/A	N/A	N/A	N/A
Stud to top or sole plate (toe-nailed)	2	3	3	3	5	4	4	5	5	5	5
Cap/top plate laps and intersections (each side of lap)	2	3	3	3	4	3	3	N/A	N/A	N/A	N/A
Diagonal bracing	2	2	2	2	2	3	3	3	4	4	4
Sole plate to joist or blocking @ braced panels (number per 16" joist space)		3	3	4		4	4	N/A	N/A	N/A	N/A
Sole plate to joist or blocking	16" o.c.	8" o.c.	8" o.c.	8" o.c.	6" o.c.	8" o.c.	8" o.c.	N/A	N/A	N/A	N/A
Double top plate				12" o.c.				N/A	N/A	N/A	N/A
Double studs				8" o.c.				N/A	N/A	N/A	N/A
				16" o.c.				N/A	N/A	N/A	N/A

This fastening schedule applies to framing members having an actual thickness of 1 ½"(Nominal "2-by" lumber) <sup>2</sup>Fastenings listed above may also be used for other connections that are not listed but that have the same configuration and the same code requirement for fastener quantity/spacing and fastener size (pennyweight and style, e.g., 8d common, "8-penny common nail"). <sup>3</sup>Fastening schedule only applies to buildings of conventional wood frame construction. Connections of shear walls and floor and roof diaphragms shall be as shown on the drawings.



NOTICE: McClure Engineering Co. is not responsible or liable for any issues, claims, damages, or losses (collectively 'Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors' guidance with respect to any alleged errors, omissions, inconsistencies, ambiguities, or conflicts contained within the Plans or Specifications.

WYOMING CERTIFICATE OF AUTHORITY NO. E-1790 EXPIRES: DECEMBER 31, 2025



12/31/2024

**ENGINEERING DOCUMENT WAS** PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF

WYOMING.

I HEREBY CERTIFY THAT THIS

PF	ROJECT NUMBER	SET IS	SUE DATE		
2	024000185	07/	07/17/2024		

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DRAWING NO.

#### STATEMENT OF SPECIAL INSPECTIONS

Project Name: Grand View Heights, The Reserves Address: New Apt. Complex, Laramie, WY 82070

1. This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspector to be retained for conducting these inspections and tests. This Statement of Special Inspections encompasses the following disciplines:

o Architectural x Structural

o Mechanical/Electrical/Plumbing o Other:

2. The Special Inspector shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

3. Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.

4. A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

5. Job site safety and means and methods of construction are solely the responsibility of the Contractor. This Statement of Special Inspections includes the following building systems:

x Fabricators

o Driven Deep Foundation Elements x Cast-In-Place Foundations Elements o Cast-In-Place Deep Foundation Elements

o Helical Pile Foundations x Concrete Construction o Masonry Construction - Level 2

o Masonry Construction - Level 3 x Structural Steel Construction o Cold-Formed Steel Construction o Metal Building Systems

o Spray Fire-Resistant Materials x Wood Construction

o Exterior Insulation and Finish System (EIFS) o Mastic and Intumescent Fire-Resistant Coatings

o Smoke Control o Fire-Resistant Penetrations and Joints

x Seismic Resistance x Wind Resistance

6. The following components are wind-resisting components or part of the main wind-force resisting system and are subject to special inspections in accordance with the Special Inspection Schedule - Wind Resistance:

Wood framed shear walls with wood sheathing and sheathing of other materials, wood sheathed floor and roof diaphragms. 7. The following components are designated seismic systems or part of the seismic-force resisting system that are subject to

special inspections in accordance with the Special Inspection Schedule - Seismic Resistance:

Wood framed shear walls with wood sheathing and sheathing of other materials, wood sheathed floor and roof diaphragms.

Special Inspection Schedule: Fabricators						
Verification And	Applicable To	Freque	ncy			
Inspection Task	This Project?	Continuous	Periodic			
Verify fabrication and implementation procedures:						
a. Steel Construction	X	-	X			
b. Concrete Construction (including rebar fabrication)	X	-	X			
c. Masonry Construction	-	-	X			
d. Wood Construction	X	-	X			
e. Cold Formed Metal Construction	-	-	X			
f. Other Construction	-	-	X			

Special Inspection Schedule: Soils							
Verification And	Applicable To	Frequency					
Inspection Task	This Project?	Continuous	Periodic				
Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Х	-	Х				
2. Verify excavations are extended to proper depth and have reached proper material.	Х	-	Х				
3. Perform classification and testing of compacted fill materials.	X	-	Х				
4. Verify use of proper materials, densities and lift thickness during placement and compaction of compacted fill.	Х	Х	-				
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	Х	-	Х				

Special Inspection Schedule: Cast-In-Place Foundation Elements								
Verification And	Applicable To	Frequency						
Inspection Task	This Project? Continuous Pe							
1. Special Inspections and verifications for concrete foundation construction in accordance with the Special Inspection Schedule: Cast-In-Place Concrete for the following foundation elements:								
a. Isolated spread concrete footings.	X	-	Х					
b. Continuous concrete footings supporting walls.	X	-	X					
c. Concrete foundation walls.	-	X	-					

Special Inspection Schedule: Concrete C	Construction		
Verification And	Applicable To	Freque	ency
Inspection Task	This Project?	Continuous	Periodic
1. Inspect reinforcing steel, including prestressing tendons and placement.	X	-	Х
2. Inspection of welding, reinforcing steel:			
a. Verification of weldability of reinforcing steel other than ASTM A706.	-	-	Х
b. Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames and boundary elements of special structural walls of concrete and shear reinforcement.	-	Х	-
c. Shear reinforcement.	-	X	-
d. Other reinforcing steel.	-	-	Х
3. Inspect anchors cast in concrete where allowable loads have been increased or where strength design is used.	X	-	Х
4. Inspect anchors post-installed in hardened concrete members.	X	-	Х
5. Verify use of required design mix.	X	-	Х
6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and record the temperature of the concrete.	Х	Х	-
7. Inspect concrete and shotcrete placement for proper application techniques.	Х	Х	-
8. Inspect for maintenance of specified curing temperature and techniques.	X	-	Х
9. Inspection of Prestressed Concrete:			
a. Observe application of prestressing forces.	-	X	-
b. Observe grouting of bonded prestressing tendons in the seismic force resisting system.	-	Х	-
10. Inspect erection of precast concrete members.	-	-	X
11. Verify in-situ concrete strength prior to stressing of tendons in post- tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	-	-	Х
12. Inspect formwork for shape, location, and dimensions of the concrete member being formed.	-	-	X

Verification And	Applicable To	Freque	ncy
Inspection Task	This Project?	Continuous	Periodic
Material verification of high-strength bolts, nuts and washers:			1
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Х	-	X
b. Manufacturer's certificate of compliance required.	Χ	-	Х
2. Inspection of high-strength bolting:			
a. Snug-tight joints.	Χ	-	Х
b. Pretensioned and slip-critical joints using turn-of-nut with match marking, twist-off bolt, or direct tension indicator methods of installation.	-	-	Х
c. Pretensioned and slip-critical joints using turn-of-nut without match marking or calibrated wrench methods of installation.	-	Х	-
Material verification of structural steel:		1	
a. Identification markings to conform to ASTM standards specified in the approved Construction Documents and AISC 360.	Х	-	Х
b. Manufacturer's certified test reports.	Χ	-	Х
4. Material verification of weld filler materials:			
a. Identification markings to conform to AWS specification in the approved Construction Documents.	Х	-	Х
b. Manufacturer's certificate of compliance required.	Χ	-	Х
5. Inspection of welding, structural steel:			
a. Complete and partial penetration groove welds.	-	X	-
b. Multi-pass fillet welds.	X	Х	-
c. Single-pass fillet welds > 5/16".	X	Х	-
d. Single-pass fillet welds < 5/16".	Χ	-	Х
6. Inspection of steel frame joint details for compliance with approved Construction Documents:			
a. Details such as bracing and stiffening.	-	-	Х
b. Member locations.	-	-	X
c. Application of joint details at each connection.	_	_	Х

Verification And	Applicable To	Freque	ncy
Inspection Task	This Project?	Continuous	Periodic
Inspection of high-load diaphragms:			'
a. Verify wood structural panel sheathing is of the grade and thickness shown on the Construction Documents.	Х	-	Х
b. Verify nominal size of framing members at adjoining panel edges agrees with the Construction Documents.	Х	-	Х
c. Verify fastener diameter and length, number of fastener lines, the spacing of the fasteners, and the edge margins agree with the Construction Documents.	Х	-	Х
2. Inspection of metal-plate-connected wood trusses spanning 60 feet or greater:			1
a. Verify temporary installation restraint/bracing are installed in accordance with approved truss submittal package.	-	-	Х
b. Verify permanent individual truss member restraint/bracing are installed in accordance with approved truss submittal package.	-	-	Х

Special Inspection Schedule: Wind Reversification And	Applicable To	Freque	encv
Inspection Task	This Project?	Continuous	Periodic
Roof cladding and roof framing connections.	Х	-	-
2. Wall connections to roof and floor diaphragms and framing.	X	-	X
3. Roof and floor diaphragm systems including collectors, drag struts, and boundary elements.	Х	-	Х
4. Vertical wind force resisting systems including braced frames, moment frames, and shear walls.	Х	-	Х
5. Wind force resisting system connections to the foundation.	X	-	Х
6. Fabrication and installation of systems or components required to meet impact-resistant requirements.	-	-	Х
7. Inspection of structural wood:			
a. Inspect field gluing operations of elements of the main wind force resisting system.	-	Х	-
b. Inspect nailing, bolting, anchoring, and other fastening of components within the main wind force resisting system including wood shear walls, wood diaphragms, drag struts, braces, and hold downs.	Х	-	х
8. Inspection of cold-formed steel light frame construction:			
a. Inspection of welding operations of elements of the main wind force resisting system.	-	-	-
b. Inspection of screw attachment, bolting, anchoring, and other fastening of other components within the main wind force resisting system including shear walls, braces, diaphragms, collectors (drag struts), and hold downs.	-	-	-
9. Wind resistant systems and components:			
a. Roof cladding	Х	-	-
b. Wall cladding	X	-	_

Verification And	Applicable To	Freque	ency
Inspection Task	This Project?	Continuous	Periodic
Inspection of pier foundations:			
a. Inspect placement of reinforcement.	-	-	Х
b. Inspect placement of concrete.	-	-	Х
2. Inspection of concrete reinforcement:			
a. Verify certified mill test reports comply with ACI 318 Chapter 21 requirements.	-	-	Х
b. Where reinforcing complying with ASTM A615 is to be welded, chemical tests shall be performed to determine weldability.	-	-	Х
3. Inspection of structural steel.			
a. Inspections shall be in accordance with the quality assurance plan requirements of AISC 341.	-	-	Х
4. Inspection of cold-formed steel framing:			•
a. Inspect welding operations of elements of the seismic force resisting system.	-	-	Х
b. Inspect screw attachment, bolting, anchoring, and other fastening of components within the seismic force resisting system including shear walls, braces, diaphragms, collectors (drag struts), and hold downs.	-	-	Х
5. Inspection of structural wood:			
a. Inspect field gluing operations of elements of the seismic force resisting system.	-	Х	
b. Inspect nailing, bolting, anchoring, and other fastening of components within the seismic force resisting system including wood shear walls, wood diaphragms, drag struts, braces, shear panels, and hold downs.	Х	-	Х
6. Inspection of storage racks:			
a. Inspect anchorage of storage racks 8 feet or greater in height.	-	-	Х
7. Inspection of architectural components:		·	
a. Inspect erection and fastening of exterior cladding.	Х	-	X
b. Inspect erection and fastening of interior and exterior nonbearing walls.	Χ	-	Х
c. Inspect erection and fastening of interior and exterior veneer.	X	-	X
d. Inspect anchorage of access floors.	-	-	X
9. Inspection of designated seismic systems:			
a. Verify label, anchorage, or mounting conforms to the certificate of compliance.		-	X
10. Inspection of seismic isolation systems:			
a. Inspect the fabrication and installation of isolator units and energy dissipation devices that are part of the seismic isolation system.	-	-	Х

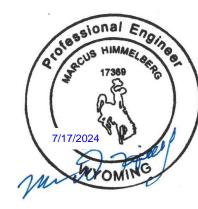


NOTICE: McClure Engineering Co. is not responsible or liable for any issues, claims, damages, or losses (collectively, "Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors' guidance with respect to any alleged

the Plans or Specifications. WYOMING CERTIFICATE OF AUTHORITY NO. E-1790 EXPIRES: DECEMBER 31, 2025

errors, omissions, inconsistencies,

ambiguities, or conflicts contained within



MARCUS HIMMELBERG 17369 12/31/2024

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER

UN	DER THE LAWS OF THE ST WYOMING.	ΓΑΤΕ Ο 
No.	Description	Date

PROJECT NUMBER SET ISSUE DATE

		WOOD WALL S	SCHEDULE	
Wood Wall Location	Wall Stud	d Size, number of plys, and	d spacing	Sheathing & Fastening U.N.O. (See Note 5)
Wood Wall Location	Level 1		Level 3	Sileatiling & Pasterling U.N.O. (See Note 3)
Exterior & Breezeway Walls	(1) 2x6 @ 24" o.c.	(1) 2x6 @ 24" o.c.	(1) 2x6 @ 24" o.c.	15/32" Structural wood sheathing fastened w/ 10d nails. 6" o.c. edge fastening, 12" o.c. field fastening
Interior Unit Walls (indicated)	(2) 2x4 @ 12" o.c.	(1) 2x4 @ 12" o.c.	(1) 2x4 @ 16" o.c.	5/8" Gypsum wallboard fastened w/ 1 5/8" Type W screws. 7" o.c. edge fastening, 7" o.c. field fastening
Unit Separation Walls	(1) 2x4 @ 16" o.c.	(1) 2x4 @ 16" o.c.	(1) 2x4 @ 16" o.c.	5/8" Gypsum wallboard fastened w/ 1 5/8" Type W screws. 7" o.c. edge fastening, 7" o.c. field fastening

1. Wall stud spacing is to be per schedule unless noted otherwise.

2. Bottom sill plates at foundation to be fastened w/ 3/8"Ø x 6" Hilti Kwik HUS-EZ Bolts @ 48" o.c. U.N.O.

3. Bottom sill plate connections shall have a 3"x3" steel plate washer at each anchor bolt on shear walls only.

4. Sill and top plates at all other levels to be fastened w/ (2) 16d nails @ 16" o.c. U.N.O. 5. Shear walls shall be sheathed & fastened per shear wall schedule

6. Non-load bearing walls not shown, refer to architectural drawings.

7. All top plates are to be continuous. Splice per 4/S500

8. U.N.O. bottom sill plates shall be (1) 2x member matching wall thickness, and top plates shall be (2) 2x members.

	WOOD COLUMN SCHEDULE						
Mark	Level 1	Level 2	Level 3				
C1	(3) 2x6	(3) 2x6	(3) 2x6				
C2	(4) 2x4	(3) 2x4	(3) 2x4				

1. All exterior columns are to be pressure treated

WOOD BEAM SCHEDULE						
Mark	Max. Span (ft-in)	Beam Size	Hanger			
B1	8'-6"	(2) 2x12 /1	Simpson U210-2			
B2	16'-3"	(2) 1-3/4"x11-1/4" LVL	Simpson HU212-2			
B3	8'-6"	(2) 1-3/4"x11-1/4" LVL	Simpson HGUS410			
B4	4'-2"	(2) 2x10	Simpson HUCQ210-2-SDS			
B6	8'-6"	(3) 2x12	Simpson HUCQ210-3-SDS			

1. All exterior beams are to be pressure treated.

2. All LVL shall be stress class 2.0E-2500F

3. Hangers to be installed with typical fasteners per manufacturer product data

		WOOD	SHEAR WA	ALL SCHEDULE		
Mark	Level	Sheathing/ Fastener Layout	Post	Hold-Down	Min. Sill/Top Plate	Base Connection
	Level 3	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x6	(2) 16d nails @ 12" o.c.
SW1	Level 2	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 16d nails @ 6" o.c.
	Level 1	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 3" Edge fastening	(2) 2x6	HTT4 w/ (18) SD #10x1-1/2 & 5/8"Ø Anchor Rod	(1) 2x6	(1) HILTI KH-EZ 3/8"Øx 6" @ 12" o.c.
SW2	Level 3	(1) Sided, Gypsum Wallboard - 1/2" Thick, 5d Nail, 7" Edge Fastening, 16" O.C.	(2) 2x4	LSTA9 w/ (8) 0.148"x2-1/2" nails	(1) 2x4	(2) 16d nails @ 16" o.c.
	Level 2	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x4	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x4	(2) 16d nails @ 12" o.c.
	Level 1	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening	(3) 2x4	HTT4 w/ (18) SD #10x1-1/2 & 5/8"Ø Anchor Rod	(1) 2x4	(1) HILTI KH-EZ 3/8"Øx 6" @ 24" o.c.
	Level 3	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	MSTA 49 w/ (26) 0.148X2-1/2" nails	(1) 2x6	(2) 16d nails @ 12" o.c.
SW3	Level 2	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 3" Edge fastening	(2) 2x6	MST60 w/ (46) 0.162x2-1/2" nails	(1) 2x6	(2) 16d nails @ 4" o.c.
	Level 1	(1) Sided, Wood Structural Panels - S1 - 15/32" Thick, 10d Nail, 2" Edge fastening	(2) 2x6	HDU8-SDS2.5 w/ (20) 1/4"Øx2-1/2"SDS Screws & 7/8"Ø Anchor Rod	(1) 2x6	(1) HILTI KH-EZ 3/8"Øx 6" @ 8" o.c.

1. See S530 for typical shear wall framing

2. All threaded rods shall be F1554 GR105

3. Floor to floor strap ties at top of wall shall match that of the floor above. 4. All hold downs and strap ties are Simpson Strong-Tie brand, U.N.O.

5. Bottom sill plate connections shall have a 3"x3"x1/4" steel plate washer at each anchor bolt on shear walls only.

6. All drag trusses shall be connected to shear walls per detail 4/S530.

7. Provide floor to floor strapping on the same side as the OSB sheathing. 8. Field fastening for all sheathing to be 12" O.C. U.N.O

9. All shear walls to be blocked at all panel joints unless noted "Unblocked."

				TYPICA	L WALL HEADER SCH	EDULE (STAC	KED OPENINGS	3)				
Ononina	May Chan	Header					Kings 8	& Jacks			Sills*	
Mark	Max. Span (ft-in)	Level 1	Level 2	Level 3	Header Plates*	Lev	el 1	Lev	el 2	Lev	el 3	All Levels
IVICITY	(11-111)	Level I	Level 2	Level 3	(All Levels)	Kings	Jacks	Kings	Jacks	Kings	Jacks	(if applicable)
H1	4'-2"	(2) 2x10	(2) 2x10	(2) 2x8		(3) 2x4	(1) 2x4	(2) 2x4	(1) 2x4	(1) 2x4	(1) 2x4	(1) 2x4
H2	3'-4"	(2) 2x8	(2) 2x8	(2) 2x8		(2) 2x6	(1) 2x6	(2) 2x6	(1) 2x6	(2) 2x6	(1) 2x6	(1) 2x6
H3	6'-4"	(2) LVL 1-3/4 x 11-7/8	(2) LVL 1-3/4 x 11-7/8	(3) 2x10	(1) 2x6 T&B	(2) 2x6	(1) 2x6	(2) 2x6	(1) 2x6	(2) 2x6	(1) 2x6	(1) 2x6
H4	9'-8"	(3) LVL 1-3/4 x 11-7/8			(1) 2x6 T&B	(2) 2x6	(1) 2x6					(2) 2x6
H5	6'-4"		(3) 2x10	(3) 2x10	(1) 2x6 T&B	(2) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6
H6	6'-4"	(3) 2x10	(3) 2x10	(3) 2x12	(1) 2x6 T&B	(2) 2x6	(2) 2x6	(1) 2x6	(2) 2x6	(1) 2x6	(2) 2x6	(1) 2x6
$^{\perp}H = An o$	pening whic	h requires a header				Notes:						

1. See S500 for typical opening framing.

2. All openings should stack according to the plans.

3. Coordinate all dimensions and elevations with architectural drawings.

4. Cripple studs should match the adjacent wall framing.

5. \* Header top and bottom plates and sills should match the wall stud depths.

6. All LVL shall be stress class 2.0E-2500F

FLOOR AND ROOF SCHEDULE Membrane/Sheathing Reinforcing Fastening Concrete/Topping 4" NW Concrete U.N.O. Slab on Grade 12mil Vapor Retarder Taped Edges See General Notes 3/4" Gypcrete Topping Breezeway Floor 3/4" Plywood 10d @ 6/12 3/4" Gypcrete Topping 3/4" Plywood 10d @ 6/12 Interior Floors ---15/32" Plywood 10d @ 6/12 UNO

Roof

1. Vapor barrier to be placed over compacted fill per general notes.

3. Floor/Roof diaphragm are unblocked unless noted otherwise on plan.

5. See architectural drawings for full floor and roof assemblies including nonstructural elements.

2. Plywood sheathing to be fastened per detail 2/S500

4. Plywood to be Structural Grade 1 Material

JOIST & HANGER SCHEDULE				
Mark	Joist Size	Hanger		
J1	2x12	Simpson LUS28		
Notes:				

1. Hangers to be installed with typical fasteners per manufacturer product data

2. All exterior members are to be pressure treated

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NO. E-1790

EXPIRES: DECEMBER 31, 2025

ambiguities, or conflicts contained within

'Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors'

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No.	Description	Date
1	ASI #1	09/27/2024
4	ASI #7	04/16/2025
	ROJECT NUMBER 024000185	SUE DATE 17/2024

CEL

RENZ S AT GI

DRAWING NO. S004

FRAMING PLAN LEGEND: (H?#) HEADER/OPENING PER OPENING SCHEDULE (SW?) SHEAR WALL TYPE, SHEAR WALL INDICATED BY ( F? ) INDICATES FOOTING TYPE C# INDICATES COLUMN TYPE

B# INDICATES BEAM TYPE

P\* JAMB FROM OPENING ABOVE E.O.S. INDICATES EDGE OF CONCRETE SLAB **FOUNDATION PLAN NOTES:** 

SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCHMARK ELEVATION. FOR REFERENCE ELEVATIONS, SEE BELOW (VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS)

 T.O. SLABE-ON-GRADE: 100'-0" PROVIDE CONTROL JOINTS IN SLAB ON GRADE PER DETAIL 5/S501 AND PER GENERAL NOTES. COORDINATE PLUMBING FIXTURES AND FLOOR DRAINS WITH ARCH. &

MEP DRAWINGS. ALL EXTERIOR AND INTERIOR LOAD BARING WALLS ARE PER WALL SCHEDULE ON SHEET S003. SEE ARCHITECTURAL FLOOR PLAN FOR

NON-BEARING WALL, DOOR, AND WINDOW LOCATIONS. REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION OF STRAP TIES, HOLD DOWNS & OTHER CONNECTIONS. SEE SHEET S501 & S502 FOR DETAILS.

	FOUNDA	ATION SCHEDULE
Mark	Size	Reinforcing
F1	2'-6"x2'-6"x1'-0"	(3) #4 BARS Top & Bottom (Each Way
Notoo:		

1. All footings must be centered on walls and columns U.N.O.

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09/27/2024 03/19/2025

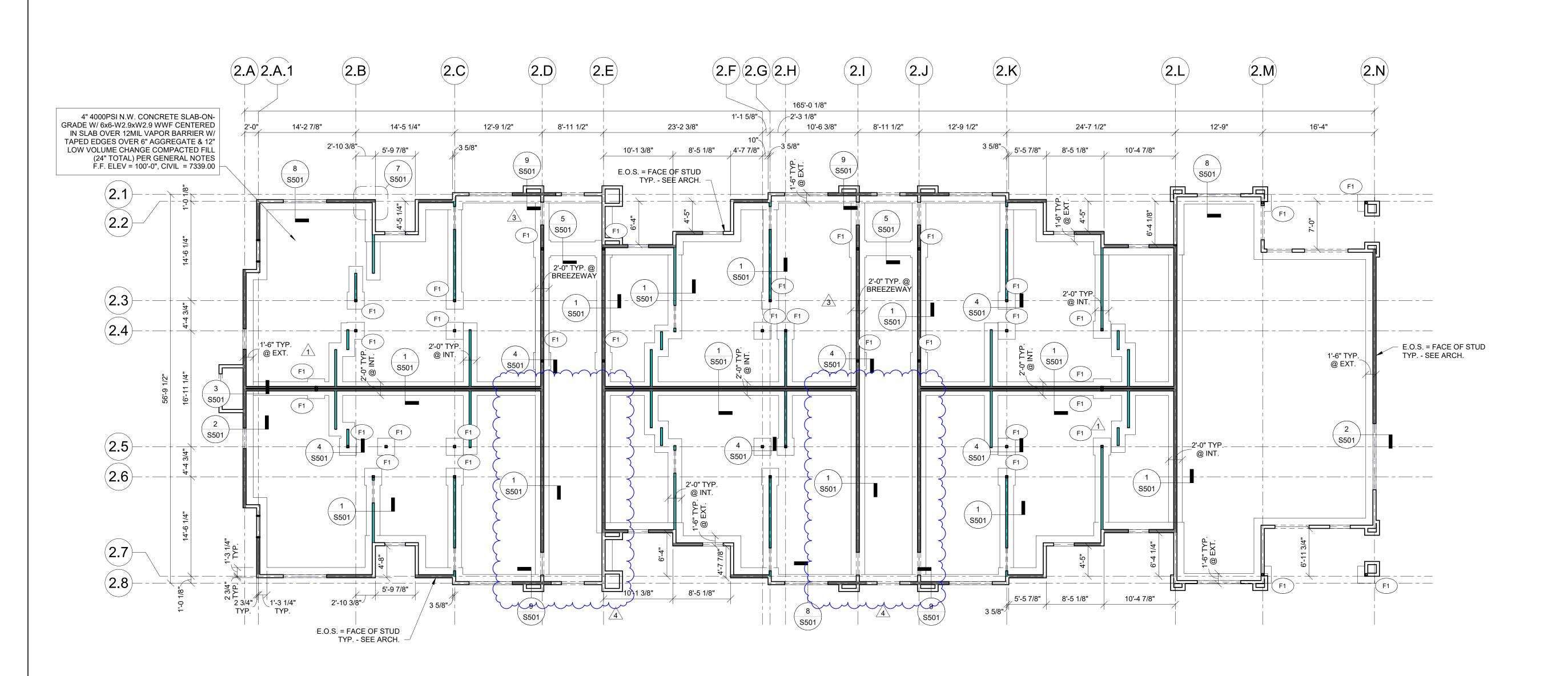
PROJECT NUMBER SET ISSUE DATE 07/17/2024 2024000185 CEL MDH

HEIGHTS VIEW GRAND JONES GILLAM F THE RESERVES

RENZ

OUNDATION BUILDING

DRAWING NO. S110



(H?#) HEADER/OPENING PER OPENING SCHEDULE

(SW?) SHEAR WALL TYPE, SHEAR WALL INDICATED BY

F? INDICATES FOOTING TYPE

C# INDICATES COLUMN TYPE

B# INDICATES BEAM TYPE

P\* JAMB FROM OPENING ABOVE

E.O.S. INDICATES EDGE OF CONCRETE SLAB

#### PLAN NOTES:

SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCHMARK ELEVATION. FOR REFERENCE ELEVATIONS, SEE BELOW (VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS)

• T.O. SLAB-ON-GRADE: 100'-0"

LEVEL 2 F.F.: 110'-5 7/8"
 LEVEL 3 F.F.: 120'-11 3/4"
 TRUSS BRG: 130'-0 7/8"

FLOOR SHEATHING: 15/32" STRUCTURAL GRADE PLYWOOD. FASTEN TO FRAMING W/ 10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN FIELD.

. ROOF SHEATHING: 15/32" STRUCTURAL GRADE PLYWOOD. FASTEN TO FRAMING W/
10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN FIELD.
. COORDINATE PLUMBING FIXTURES, SHAFTS, AND FLOOR DRAINS WITH ARCH. &
MEP DRAWINGS

ALL EXTERIOR AND INTERIOR LOAD BEARING WALLS ARE PER WALL SCHEDULE ON

SHEET S003. SEE ARCHITECTURAL FLOOR PLAN FOR NON-BEARING WALL, DOOR, AND WINDOW LOCATIONS.

FLOOR PLAN SHOWS FRAMING FOR THE FLOOR INDICATED & VERTICAL FRAMING

(WALLS, HEADERS, POSTS, COLUMNS) SUPPORTING THAT FLOOR.
 SEE ARCHITECTURAL DRAWINGS FOR ALL RAILING DETAILS. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.

NOTES FOR DESIGN CRITERIA.

REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION OF STRAP TIES,

HOLD DOWNS & OTHER CONNECTIONS.

ALL EXTERIOR LUMBER (POSTS, BEAMS, DECKING, ETC.) TO BE TREATED.

WOOD FLOOR TRUSSES TO BE DESIGNED BY MANUFACTURER AND ARE SHOWN

FOR THE INTENT OF SPAN DIRECTION AND LOAD PATH ONLY. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.

1. TRUSS MANUFACTURER TO DESIGN & PROVIDE GIRDER TRUSSES AT ALL FLOOR

OPENINGS & SPECIFY HANGERS FOR GIRDERS & SUPPORTED FRAMING.

12. REFER TO ARCHITECTURAL PLANS FOR STAIR DIMENSIONS AND REQUIREMENTS. REFER TO STRUCTURAL GENERAL NOTES FOR STAIR DESIGN CRITERIA.



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No.	Description	Date		
1	ASI #1		09/27/2024	
4	ASI #7		04/16/2025	
	OJECT NUMBER S		SUE DATE 17/2024	

#4000185 07/17/2024

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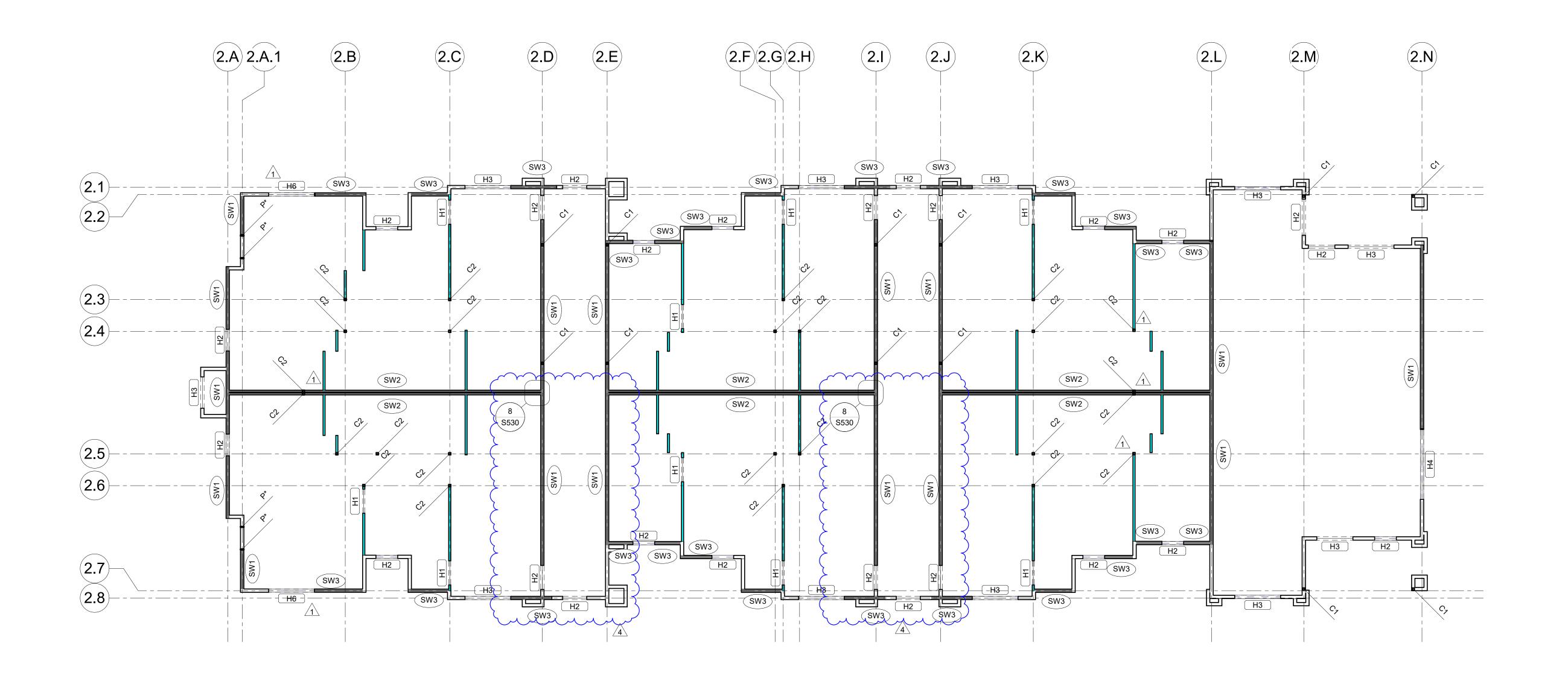
MDH CEL IWC

RENZ S AT GRAND VIEW HEIGHTS

JING A - LEVEL 1

LARAMIE, WY

DRAWING NO.





(H?#) HEADER/OPENING PER OPENING SCHEDULE

(SW?) SHEAR WALL TYPE, SHEAR WALL INDICATED BY

F? INDICATES FOOTING TYPE

C# INDICATES COLUMN TYPE

B# INDICATES BEAM TYPE

P\* JAMB FROM OPENING ABOVE

E.O.S. INDICATES EDGE OF CONCRETE SLAB

#### PLAN NOTES:

. SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCHMARK ELEVATION. FOR REFERENCE ELEVATIONS, SEE BELOW (VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS)

T.O. SLAB-ON-GRADE: 100'-0"
 LEVEL 2.5 F.: 140'-57

LEVEL 2 F.F.: 110'-5 7/8" LEVEL 3 F.F.: 120'-11 3/4" TRUSS BRG: 130'-0 7/8"

FLOOR SHEATHING: 15/32" STRUCTURAL GRADE PLYWOOD. FASTEN TO FRAMING W/ 10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN FIELD. ROOF SHEATHING: 15/32" STRUCTURAL GRADE PLYWOOD. FASTEN TO FRAMING W/

10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN FIELD.
COORDINATE PLUMBING FIXTURES, SHAFTS, AND FLOOR DRAINS WITH ARCH. &
MEP DRAWINGS.

ALL EXTERIOR AND INTERIOR LOAD BEARING WALLS ARE PER WALL SCHEDULE ON

SHEET S003. SEE ARCHITECTURAL FLOOR PLAN FOR NON-BEARING WALL, DOOR, AND WINDOW LOCATIONS.

6. FLOOR PLAN SHOWS FRAMING FOR THE FLOOR INDICATED & VERTICAL FRAMING

(WALLS, HEADERS, POSTS, COLUMNS) SUPPORTING THAT FLOOR.
 SEE ARCHITECTURAL DRAWINGS FOR ALL RAILING DETAILS. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.

NOTES FOR DESIGN CRITERIA.
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HOLD DOWNS & OTHER CONNECTIONS.

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TRUSS MANUFACTURER TO DESIGN & PROVIDE GIRDER TRUSSES AT ALL FLOOR OPENINGS & SPECIFY HANGERS FOR GIRDERS & SUPPORTED FRAMING.

12. REFER TO ARCHITECTURAL PLANS FOR STAIR DIMENSIONS AND REQUIREMENTS. REFER TO STRUCTURAL GENERAL NOTES FOR STAIR DESIGN CRITERIA.

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NO. E-1790

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Description ASI #1

4		ASI #7	04/16/2025
	ROJECT NUMBER 024000185		SUE DATE 17/2024

ROJECT NUMBER SET ISSUE DATE 024000185 07/17/2024

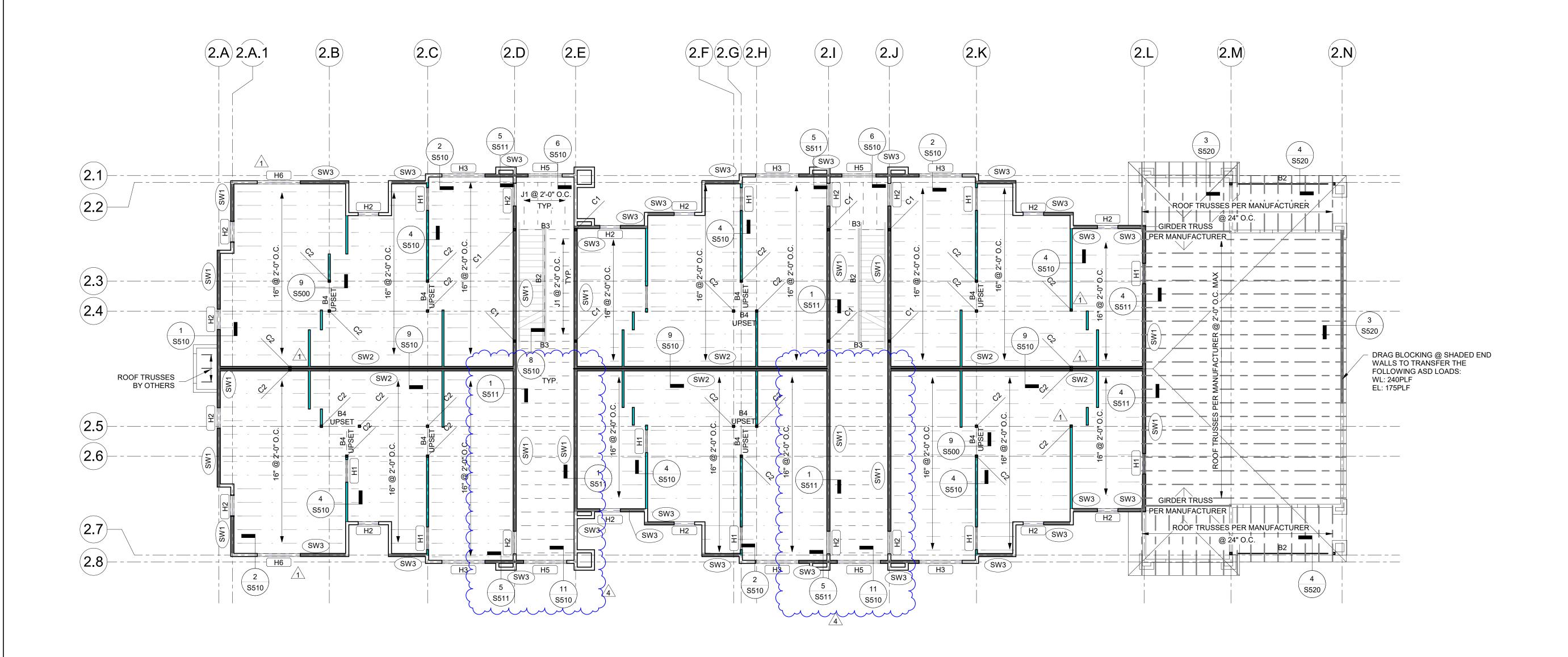
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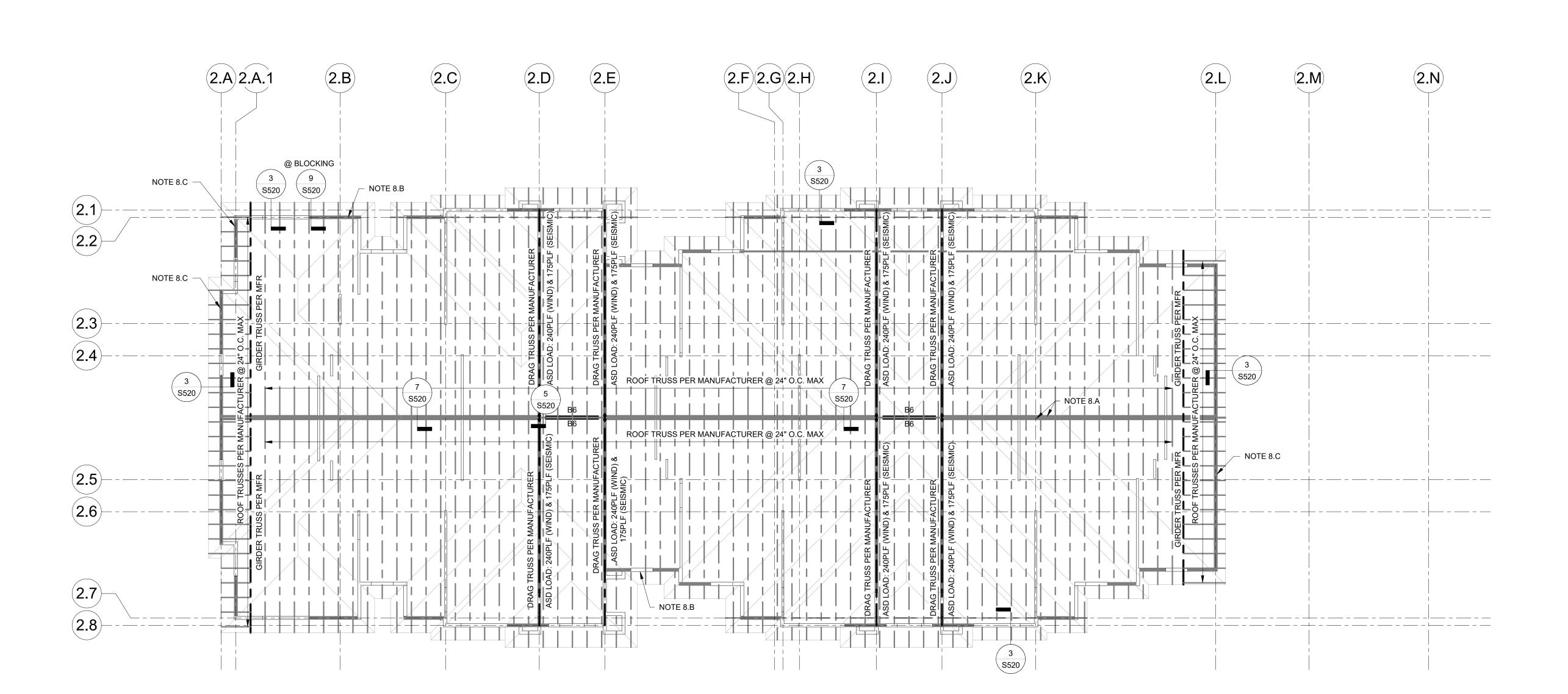
RENZ S AT GRAND VIEW HEIGHTS

OING A - LEVEL 2 & 3

LARAMIE, WY
BUILDING A - L

DRAWING NO.





FRAMING NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCHMARK ELEVATION. FOR REFERENCE ELEVATION, SEE BELOW (VERIFY ALL ELEVATIONS AND DIMENSIONS WITH

ARCHITECTURAL DRAWINGS.)

\* T.O. SLAB ON GRADE 100'-0"

\* LEVEL 2 F.F. 110'-5 7/8"

\* LEVEL 2 F.F. 110-5 7/8 \* LEVEL 3 F.F. 120'-11 3/4"

\* ROOF TRUSS BEARING 130'-0 7/8"

2. ROOF SHEATHING: 15/32" STRUCTURAL GRADE PLYWOOD FASTENED TO ROOF TRUSSES W/ 10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN THE FIELD.

3. RTU PENETRATIONS TO BE COORDINATED W/ ARCH. & MEP DRAWINGS.

4. REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION OF STRAP TIES, HOLD DOWNS AND OTHER CONNECTIONS.

5. ALL EXTERIOR LUMBER (POSTS, BEAMS, DECKING, ETC.) TO BE TREATED.
6. WOOD ROOF TRUSSES (DESIGN PER MANUFACTURER) ARE SHOWN FOR THE INTENT OF SPAN DIRECTION AND LOAD PATH ONLY. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.

7. TRUSS MANUFACTURER TO DESIGN & PROVIDE GIRDER TRUSSES AT ALL OPENINGS AND LOCATIONS SHOWN ON PLAN & SPECIFY HANGERS FOR GIRDERS & SUPPORTED FRAMING WHERE REQUIRED.

8. TRUSS MANUFACTURER TO DESIGN & PROVIDE DRAG BLOCKING AND TRUSSES AS INDICATED ON PLAN FOR THE FOLLOWING LOADS:

A. DRAG BLOCKING REQUIRED AT SHADED AREAS @ UNIT SEPARATION WALLS

TO TRANSFER THE FOLLOWING ASD LOADS:

WL: 60PLF
EL: 100PLF
B. TYP. DRAG BLOCKING REQUIRED AT SHADED AREAS @ EXTERIOR WALLS TO

TRANSFER THE FOLLOWING ASD LOADS:

WL: 150PLF

C. DRAG BLOCKING @ SHADED END WALLS TO TRANSFER THE FOLLOWING ASD LOADS:

WL: 240PLF EL: 175PLF

#### FRAMING PLAN LEGEND:

H?# HEADER/OPENING PER OPENING SCHEDULE

SW?) SHEAR WALL TYPE, SHEAR WALL INDICATED BY

F? INDICATES FOOTING TYPE

C# INDICATES COLUMN TYPE

B# INDICATES BEAM TYPE

P\* JAMB FROM OPENING ABOVE

BREEZEWAY SHEATHING ELEVATION VARIES FROM

E.O.S. INDICATES EDGE OF CONCRETE SLAB

TYP. SEE ARCH. & SCHEDULES

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LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WYOMING.

			1
ојест пимве 024000185	R		SUE DATE 17/2024
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PROJECT NUMBER SET ISSUE DATE 07/17/2024

ENGINEER DRAWN BY CHECKED BY MDH CEL IWC

M RENZ ES AT GRAND VIEW HEIGHTS

E KESERVES AI GR AMIE, WY

DRAWING NO.

1 BLDG A - ROOI \$113 1/8" = 1'-0"

(H?#) HEADER/OPENING PER OPENING SCHEDULE

SW?) SHEAR WALL TYPE, SHEAR WALL INDICATED BY

F? INDICATES FOOTING TYPE

C# INDICATES COLUMN TYPE

B# INDICATES BEAM TYPE

P\* JAMB FROM OPENING ABOVE

E.O.S. INDICATES EDGE OF CONCRETE SLAB

FOUNDATION PLAN NOTES:

SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCHMARK
ELEVATION. FOR REFERENCE ELEVATIONS, SEE BELOW (VERIFY ALL
ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS)

• T.O. SLABE-ON-GRADE: 100'-0"

2. PROVIDE CONTROL JOINTS IN SLAB ON GRADE PER DETAIL 5/S501 AND PER GENERAL NOTES.

3. COORDINATE PLUMBING FIXTURES AND FLOOR DRAINS WITH ARCH &

3. COORDINATE PLUMBING FIXTURES AND FLOOR DRAINS WITH ARCH. & MEP DRAWINGS.
4. ALL EXTERIOR AND INTERIOR LOAD BARING WALLS ARE PER WALL

SCHEDULE ON SHEET S003. SEE ARCHITECTURAL FLOOR PLAN FOR NON-BEARING WALL, DOOR, AND WINDOW LOCATIONS.
REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION OF STRAP TIES, HOLD DOWNS & OTHER CONNECTIONS.

FOUNDATION SCHEDULE

Mark Size Reinforcing

F1 2'-6"x2'-6"x1'-0" (3) #4 BARS Top & Bottom (Each Way)

tes:

1. All footings must be centered on walls and columns U.N.O.

SEE SHEET S501 & S502 FOR DETAILS.

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UNDER THE LAWS OF THE STATE OF

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No. Description Date

1 ASI #1 09/27/2024
3 ASI #6 03/19/2025
4 ASI #7 04/16/2025

PROJECT NUMBER SET ISSUE DATE 2024000185 07/17/2024

ENGINEER DRAWN BY CHECKED BY MDH CEI IWC

ENGINEER DRAWN BY CHECKED BY

MDH CEL IWC

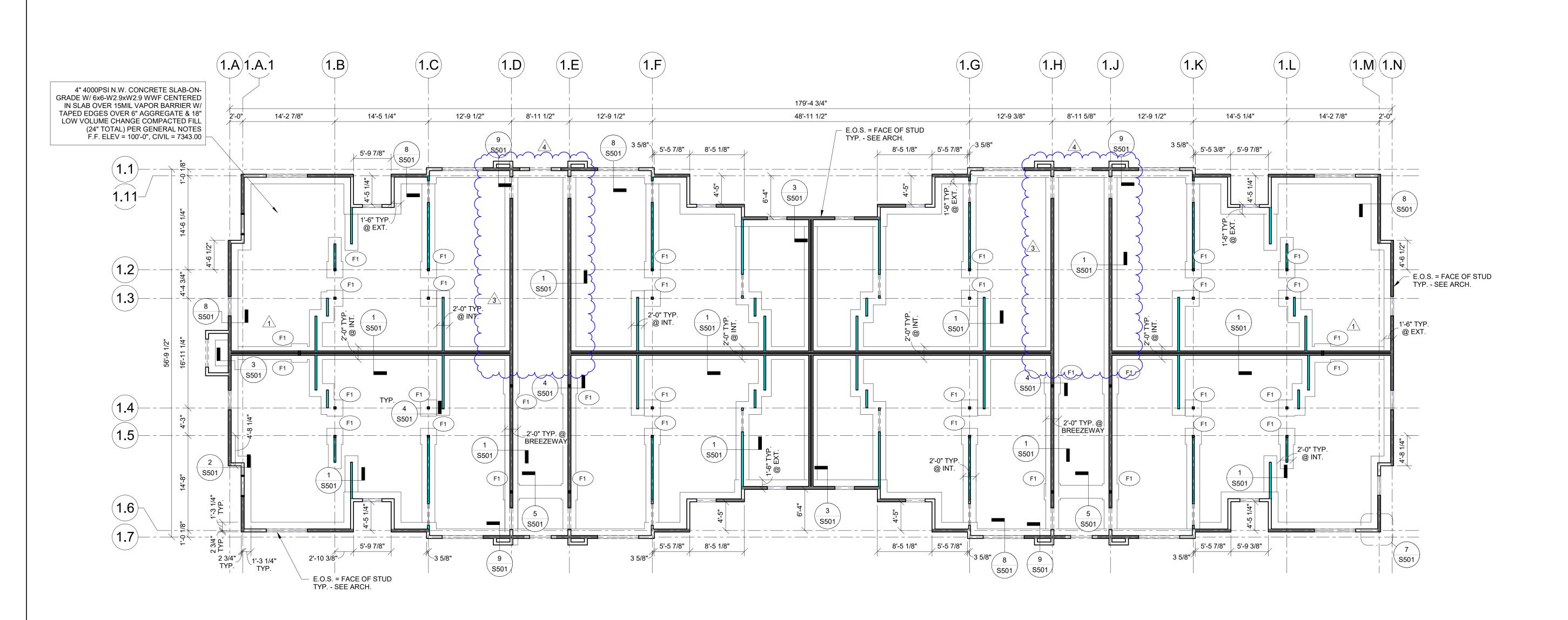
VES AT GRAND VIEW HEIGHTS

OUNDATION

BUILDING

JONES GILLAM RENZ THE RESERVES AT GRAND LARAMIE, WY

DRAWING NO.



(H?#) HEADER/OPENING PER OPENING SCHEDULE

(SW?) SHEAR WALL TYPE, SHEAR WALL INDICATED BY

( F? ) INDICATES FOOTING TYPE

C# INDICATES COLUMN TYPE

B# INDICATES BEAM TYPE

P\* JAMB FROM OPENING ABOVE

E.O.S. INDICATES EDGE OF CONCRETE SLAB

**PLAN NOTES:** 

SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCHMARK ELEVATION. FOR REFERENCE ELEVATIONS, SEE BELOW (VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS)

 T.O. SLAB-ON-GRADE: 100'-0" LEVEL 2 F.F.:

AND WINDOW LOCATIONS.

110'-5 7/8" LEVEL 3 F.F.: 120'-11 3/4" 130'-0 7/8" TRUSS BRG:

FLOOR SHEATHING: 15/32" STRUCTURAL GRADE PLYWOOD. FASTEN TO FRAMING W/ 10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN FIELD. ROOF SHEATHING: 15/32" STRUCTURAL GRADE PLYWOOD. FASTEN TO FRAMING W/

10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN FIELD. COORDINATE PLUMBING FIXTURES, SHAFTS, AND FLOOR DRAINS WITH ARCH. & ALL EXTERIOR AND INTERIOR LOAD BEARING WALLS ARE PER WALL SCHEDULE ON SHEET S003. SEE ARCHITECTURAL FLOOR PLAN FOR NON-BEARING WALL, DOOR,

FLOOR PLAN SHOWS FRAMING FOR THE FLOOR INDICATED & VERTICAL FRAMING (WALLS, HEADERS, POSTS, COLUMNS) SUPPORTING THAT FLOOR.

SEE ARCHITECTURAL DRAWINGS FOR ALL RAILING DETAILS. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.

REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION OF STRAP TIES, HOLD DOWNS & OTHER CONNECTIONS. ALL EXTERIOR LUMBER (POSTS, BEAMS, DECKING, ETC.) TO BE TREATED.

WOOD FLOOR TRUSSES TO BE DESIGNED BY MANUFACTURER AND ARE SHOWN FOR THE INTENT OF SPAN DIRECTION AND LOAD PATH ONLY. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.

TRUSS MANUFACTURER TO DESIGN & PROVIDE GIRDER TRUSSES AT ALL FLOOR OPENINGS & SPECIFY HANGERS FOR GIRDERS & SUPPORTED FRAMING.

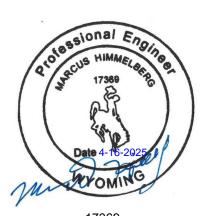
REFER TO ARCHITECTURAL PLANS FOR STAIR DIMENSIONS AND REQUIREMENTS. REFER TO STRUCTURAL GENERAL NOTES FOR STAIR DESIGN CRITERIA.

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errors, omissions, inconsistencies, ambiguities, or conflicts contained within the Plans or Specifications.



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No.	Description	Date
1	ASI #1	09/27/2024
4	ASI #7	04/16/2025
	ROJECT NUMBER	SET ISSUE DATE

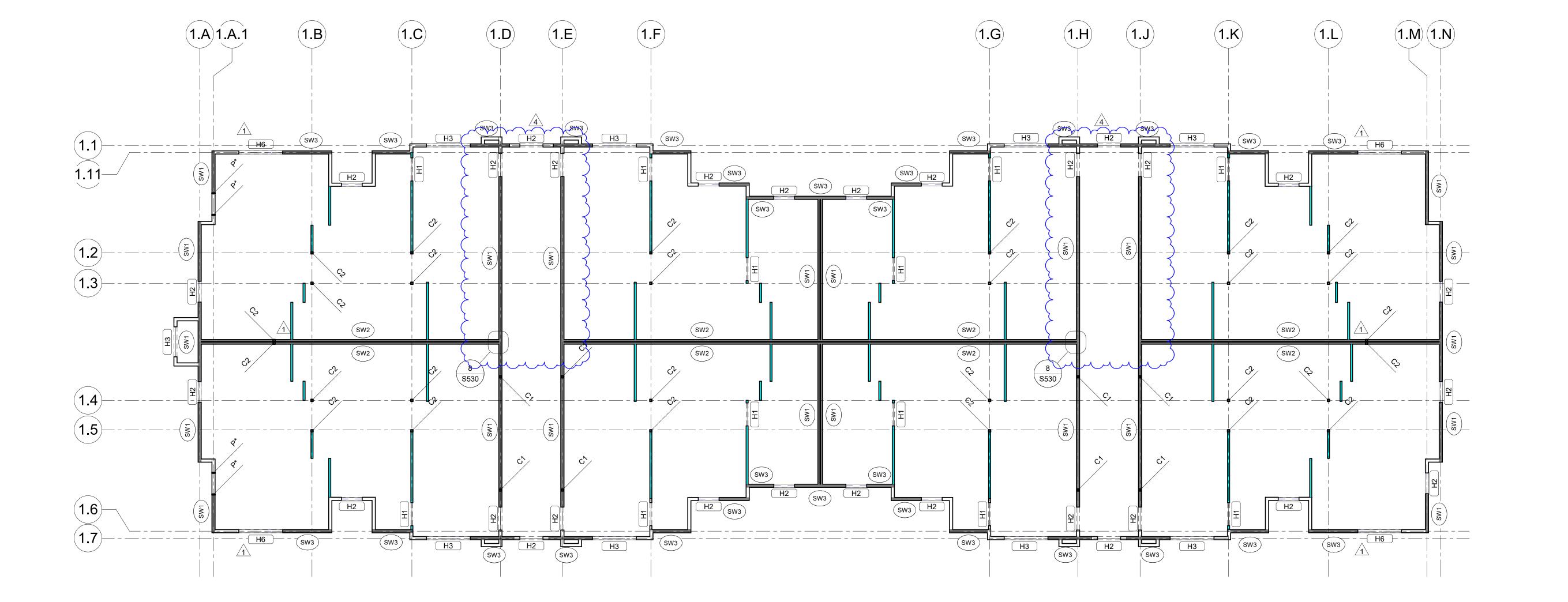
2024000185 CEL

HEIGHTS GRAND

BUILDING

1 BLDG B - FIRST FLOOR FRAMING S121 1/8" = 1'-0"

JONES GILLAM RENZ THE RESERVES AT G DRAWING NO.



(H?#) HEADER/OPENING PER OPENING SCHEDULE

(SW?) SHEAR WALL TYPE, SHEAR WALL INDICATED BY

( F? ) INDICATES FOOTING TYPE

C# INDICATES COLUMN TYPE

B# INDICATES BEAM TYPE

P\* JAMB FROM OPENING ABOVE

E.O.S. INDICATES EDGE OF CONCRETE SLAB

#### **PLAN NOTES:**

SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCHMARK ELEVATION. FOR REFERENCE ELEVATIONS, SEE BELOW (VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS)

 T.O. SLAB-ON-GRADE: 100'-0" LEVEL 2 F.F.:

110'-5 7/8" LEVEL 3 F.F.: 120'-11 3/4" 130'-0 7/8" TRUSS BRG:

FLOOR SHEATHING: 15/32" STRUCTURAL GRADE PLYWOOD. FASTEN TO FRAMING W/ 10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN FIELD.

ROOF SHEATHING: 15/32" STRUCTURAL GRADE PLYWOOD. FASTEN TO FRAMING W/ 10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN FIELD. COORDINATE PLUMBING FIXTURES, SHAFTS, AND FLOOR DRAINS WITH ARCH. &

ALL EXTERIOR AND INTERIOR LOAD BEARING WALLS ARE PER WALL SCHEDULE ON SHEET S003. SEE ARCHITECTURAL FLOOR PLAN FOR NON-BEARING WALL, DOOR, AND WINDOW LOCATIONS. FLOOR PLAN SHOWS FRAMING FOR THE FLOOR INDICATED & VERTICAL FRAMING

(WALLS, HEADERS, POSTS, COLUMNS) SUPPORTING THAT FLOOR. SEE ARCHITECTURAL DRAWINGS FOR ALL RAILING DETAILS. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.

REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION OF STRAP TIES, HOLD DOWNS & OTHER CONNECTIONS.

ALL EXTERIOR LUMBER (POSTS, BEAMS, DECKING, ETC.) TO BE TREATED. WOOD FLOOR TRUSSES TO BE DESIGNED BY MANUFACTURER AND ARE SHOWN FOR THE INTENT OF SPAN DIRECTION AND LOAD PATH ONLY. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.

TRUSS MANUFACTURER TO DESIGN & PROVIDE GIRDER TRUSSES AT ALL FLOOR OPENINGS & SPECIFY HANGERS FOR GIRDERS & SUPPORTED FRAMING.

REFER TO ARCHITECTURAL PLANS FOR STAIR DIMENSIONS AND REQUIREMENTS. REFER TO STRUCTURAL GENERAL NOTES FOR STAIR DESIGN CRITERIA.

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HEIGHTS VIEW RAND RENZ

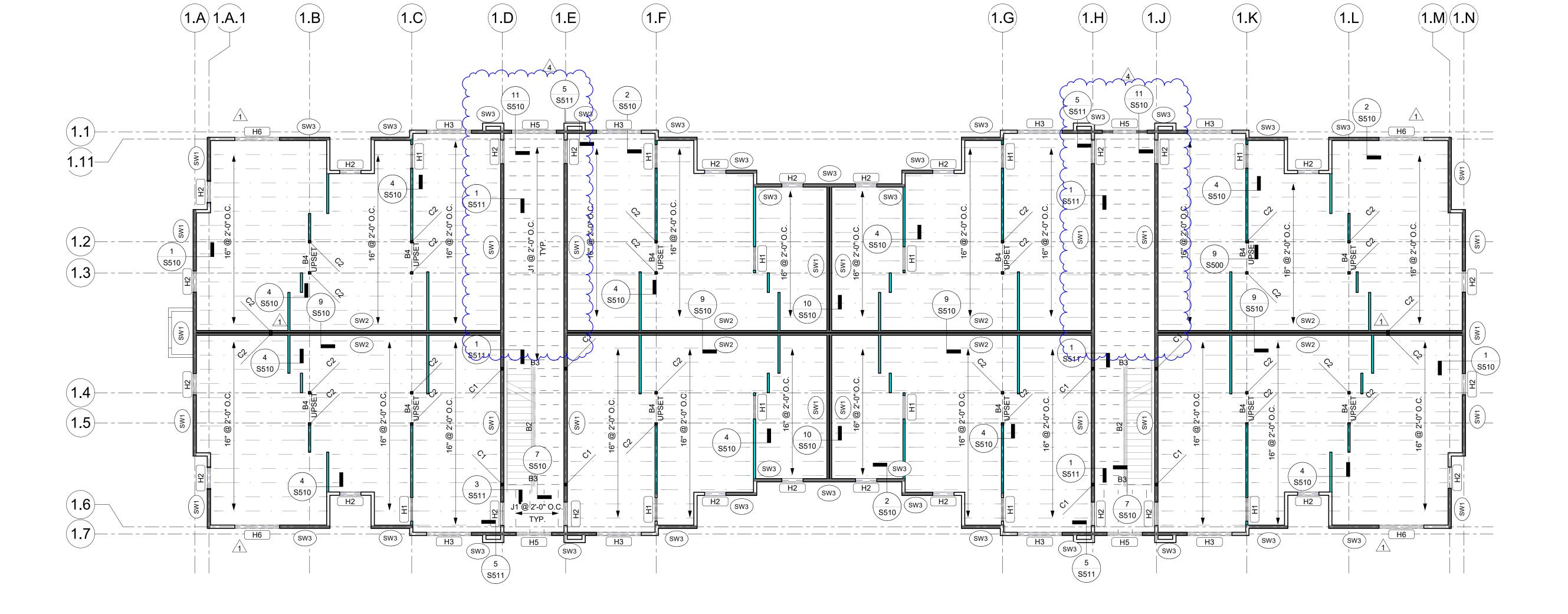
JONES GILLAM F THE RESERVES

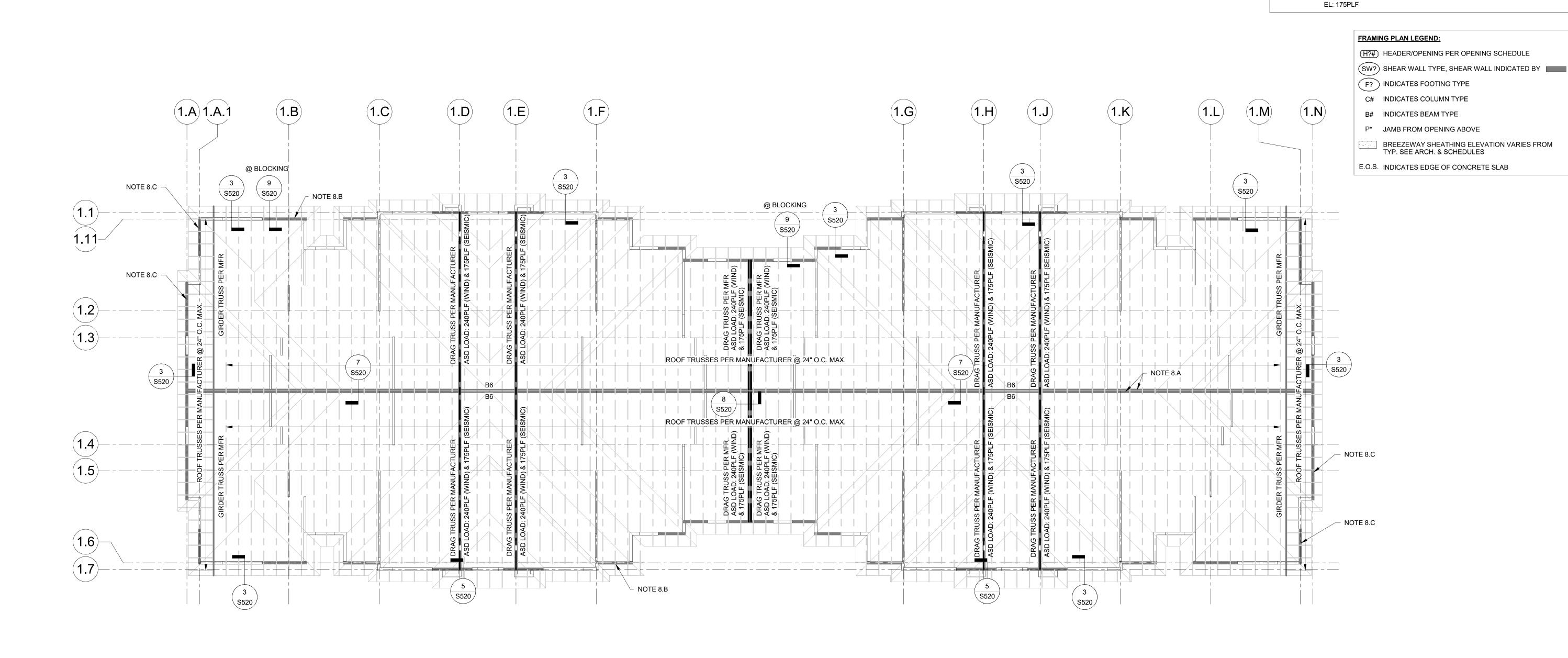
DRAWING NO.

S122

7

BUILDING





MCCLURE

2001 W Broadway

Columbia, MO 65203

P 573-814-1568

FRAMING NOTES: ROOF PLAN NOTES:

\* LEVEL 2 F.F.

\* LEVEL 3 F.F.

ARCHITECTURAL DRAWINGS.)
\* T.O. SLAB ON GRADE 100'-0"

\* ROOF TRUSS BEARING 130'-0 7/8"

DOWNS AND OTHER CONNECTIONS.

INDICATED ON PLAN FOR THE FOLLOWING LOADS:

WL: 60PLF

EL: 100PLF

WL: 150PLF

TO TRANSFER THE FOLLOWING ASD LOADS:

TRANSFER THE FOLLOWING ASD LOADS:

FRAMING WHERE REQUIRED.

1. SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCHMARK ELEVATION. FOR REFERENCE ELEVATION, SEE BELOW (VERIFY ALL ELEVATIONS AND DIMENSIONS WITH

2. ROOF SHEATHING: 15/32" STRUCTURAL GRADE PLYWOOD FASTENED TO ROOF

3. RTU PENETRATIONS TO BE COORDINATED W/ ARCH. & MEP DRAWINGS.

5. ALL EXTERIOR LUMBER (POSTS, BEAMS, DECKING, ETC.) TO BE TREATED.

TRUSSES W/ 10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN THE FIELD.

4. REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION OF STRAP TIES, HOLD

6. WOOD ROOF TRUSSES (DESIGN PER MANUFACTURER) ARE SHOWN FOR THE INTENT OF SPAN DIRECTION AND LOAD PATH ONLY. REFER TO GENERAL NOTES FOR DESIGN

7. TRUSS MANUFACTURER TO DESIGN & PROVIDE GIRDER TRUSSES AT ALL OPENINGS AND LOCATIONS SHOWN ON PLAN & SPECIFY HANGERS FOR GIRDERS & SUPPORTED

8. TRUSS MANUFACTURER TO DESIGN & PROVIDE DRAG BLOCKING AND TRUSSES AS

A. DRAG BLOCKING REQUIRED AT SHADED AREAS @ UNIT SEPARATION WALLS

B. TYP. DRAG BLOCKING REQUIRED AT SHADED AREAS @ EXTERIOR WALLS TO

C. DRAG BLOCKING @ SHADED END WALLS TO TRANSFER THE FOLLOWING ASD

110'-5 7/8"

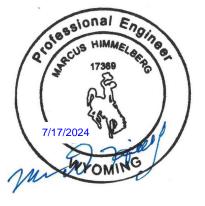
120'-11 3/4"

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WYOMING.

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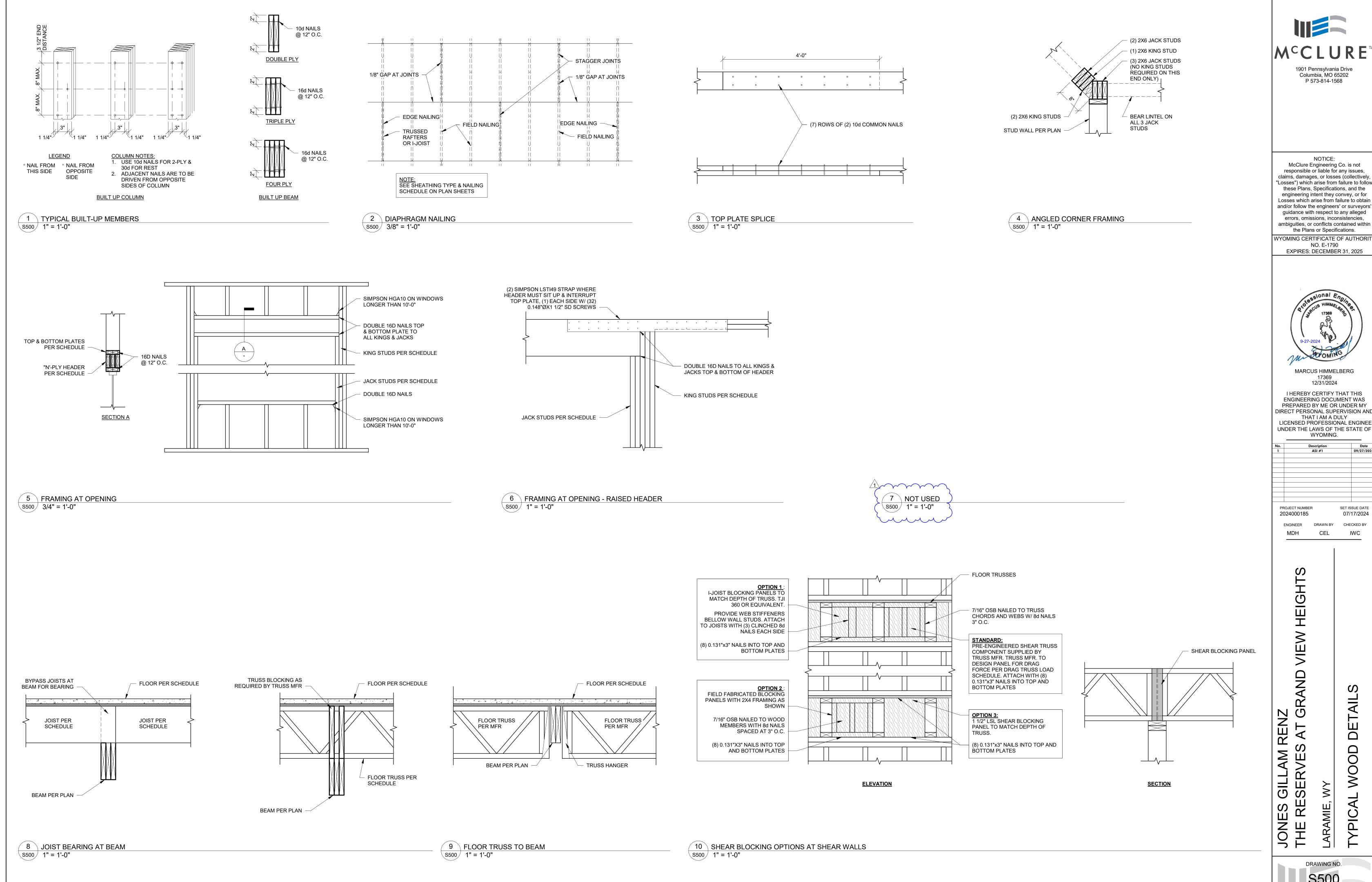
MDH CEL IWC

1 RENZ S AT GRAND VIEW HEIGHTS

IE RESERVES AT GRA RAMIE, WY

DRAWING NO.

S123





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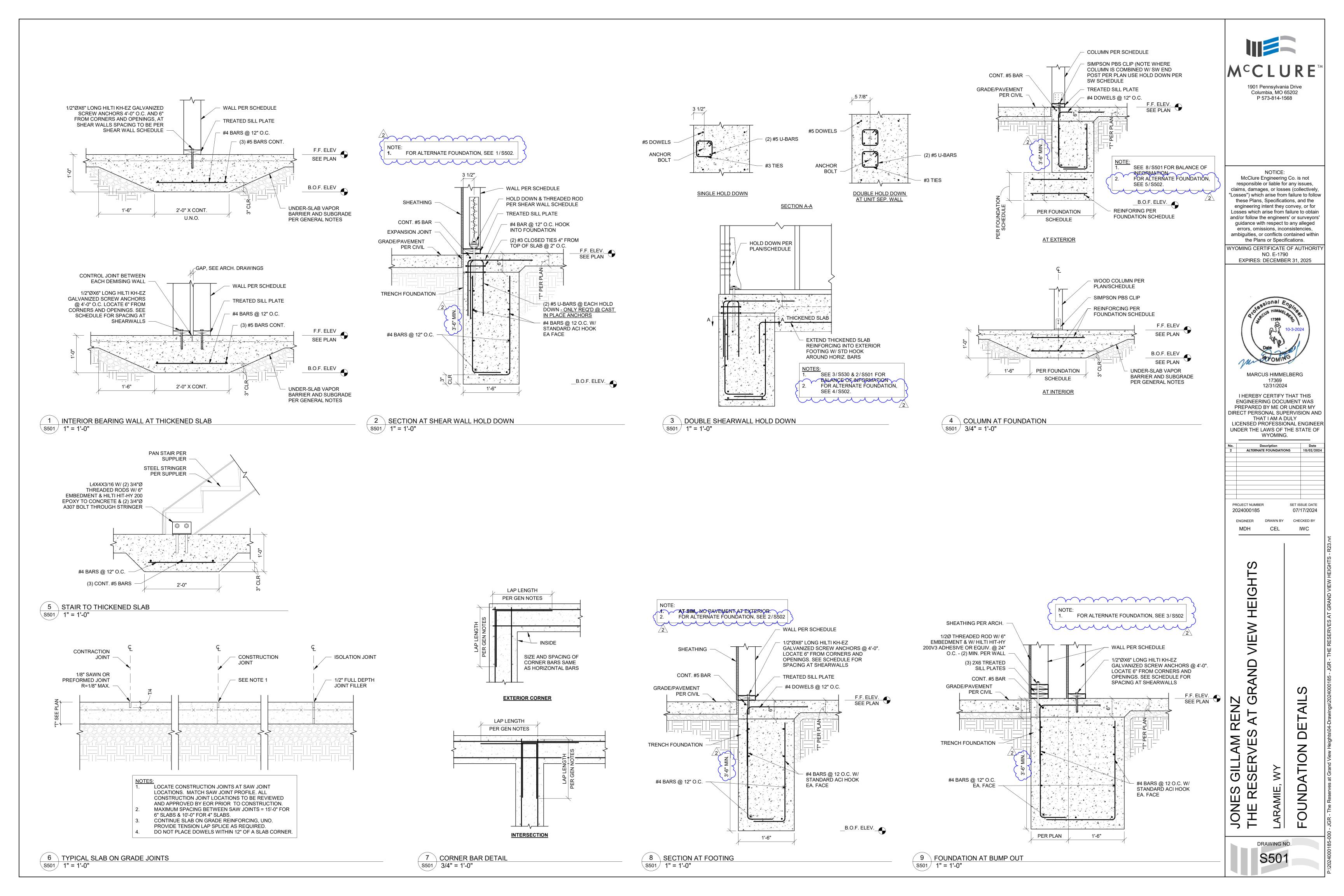
WYOMING. Date 09/27/2024 Description ASI #1

PROJECT NUMBER SET ISSUE DATE 2024000185 07/17/2024 ENGINEER DRAWN BY CHECKED BY CEL MDH

HEIGHT RAND

DE

DRAWING NO. S500



SECTION AT SHEAR WALL HOLD DOWN ALT. @ 1 STRIP FOOTING S502 | 1" = 1'-0"

> #5 DOWELS -#5 DOWELS ANCHOR (2) #5 U-BARS BOLT ANCHOR BOLT -SINGLE HOLD DOWN DOUBLE HOLD DOWN AT UNIT SEP. WALL

SECTION A-A HOLD DOWN PER PLAN/SCHEDULE THICKENED SLAB FOUNDATION STEM WALL EXTEND THICKENED SLAB REINFORCING INTO EXTERIOR FOOTING W/ STD HOOK AROUND HORIZ. BARS #4 BARS @ 12" O.C. VERTICALLY #4 BARS @ 12" O.C. W/ STANDARD ACI HOOK, ALTERNATE BEND #5 BARS @ 12" O.C. NOTES: SEE 3/S501 FOR BALANCE OF INFORMATION 2'-0" x CONT.

DOUBLE SHEARWALL HOLD DOWN ALT. @ STRIP

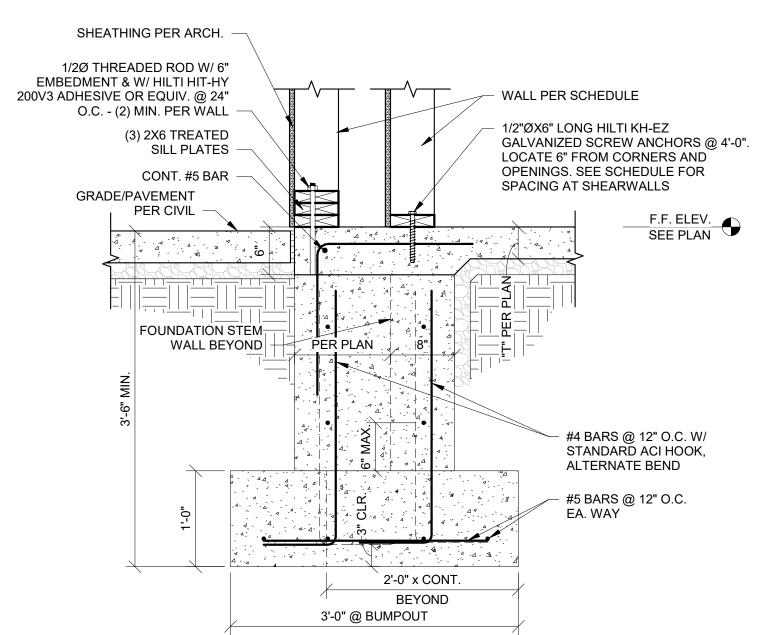
4 FOOTING S502 1" = 1'-0"

AT SIMILAR, NO - WALL PER SCHEDULE PAVEMENT AT EXTERIOR 1/2"ØX6" LONG HILTI KH-EZ GALVANIZED SCREW ANCHORS @ 4'-0". SHEATHING LOCATE 6" FROM CORNERS AND OPENINGS. SEE SCHEDULE FOR SPACING AT SHEARWALLS CONT. #5 BAR -TREATED SILL PLATE #4 DOWELS @ 12" O.C. GRADE/PAVEMENT PER CIVIL F.F. ELEV. SEE PLAN FOUNDATION STEM WALL - #4 BARS @ 12" O.C. W/ STANDARD ACI HOOK, ALTERNATE HOOK - #4 BARS @ 12" O.C. VERTICALLY #5 BARS @ 12" O.C. EA. WAY B.O.F. ELEV. 2'-0" x CONT.

2 SECTION AT FOOTING ALT. @ STRIP FOOTING S502 1" = 1'-0"

COLUMN PER SCHEDULE SIMPSON PBS CLIP (NOTE WHERE COLUMN IS COMBINED W/ SW END POST PER PLAN USE HOLD DOWN PER SW SCHEDULE CONT. #5 BAR TREATED SILL PLATE GRADE/PAVEMENT PER CIVIL #4 DOWELS @ 12" O.C. F.F. ELEV. SEE PLAN 4 4 4 4 4 4 NOTE: SEE 2/S502 FOR BALANCE FOUNDATION z STEM WALL\_-OF INFORMATION - #4 BARS @ 12" O.C. VERTICALLY #4 BARS @ 12" O.C. W/ STANDARD ACI HOOK, ALTERNATE BEND STRIP FOOTING BEYOND B.O.F. ELEV. STRIP FOOTING BEYOND PER FOUNDATION REINFORCING PER SCHEDULE FOUNDATION SCHEDULE

COLUMN AT FOUNDATION AT EXTERIOR ALT. @ 5 STRIP FOOTING S502 1" = 1'-0"



3 FOUNDATION AT BUMP OUT ALT @ STRIP FOOTING

S502 1" = 1'-0"

HEIGHT( VIEW RAND RENZ GILLAM ESERVES

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DE ATION OUND,

DRAWING NO. S502

JONE

(2) 2X TOP PLATE -

WALL STUD SIZE AND

S510 1" = 1'-0"

STAIR STRINGER

PER SUPPILER

. \_ \_ \_ \_ \_

8 LANDING AT FLOOR JOIST S510 1" = 1'-0"

SPACING PER PLAN -

4 FRAMING AT INTERIOR BEARING WALL (NON-SHEAR)

FLOOR PER SCHEDULE

**BLOCKING TO** 

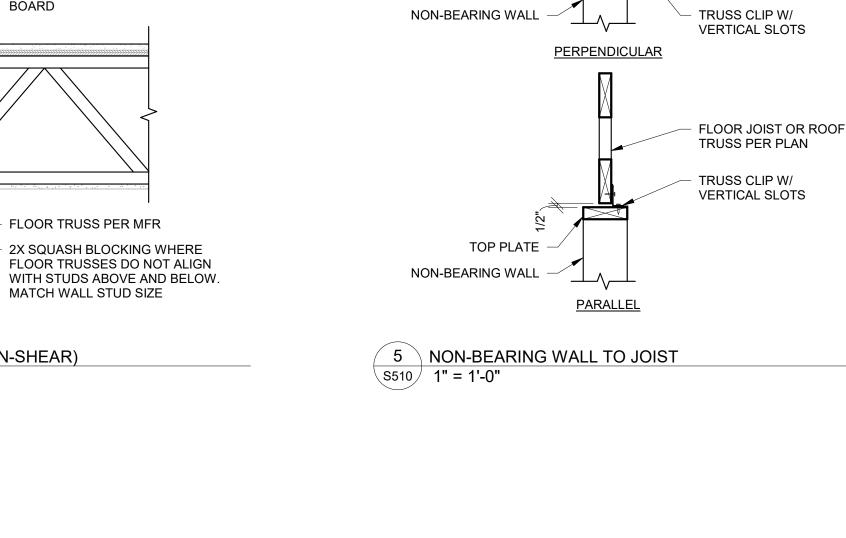
DEPTH @ 48" O.C.

MATCH JOIST

JOIST PER PLAN

ATTACHMENT BY

STAIR SUPPLIER



WALL STUD SIZE AND SPACING PER PLAN

2X BOTTOM PLATE

CONT. MIN 2x6 RIBBON BOARD

WALL SHEATHING

(2) 2X TOP PLATE

WALL STUD SIZE AND SPACING PER PLAN -

S510 1" = 1'-0"

PER PLAN

2 FRAMING AT EXTERIOR WALL - JOIST PARALLEL

TOP PLATE

- FLOOR SHEATHING

- FLOOR TRUSS PER MFR

WALL STUD SIZE AND

SPACING PER PLAN

2X BOTTOM PLATE -

CONT. MIN. 2x6

RIBBON BOARD -

WALL SHEATHING

(2) 2X TOP PLATE

WALL STUD SIZE AND

SPACING PER PLAN -

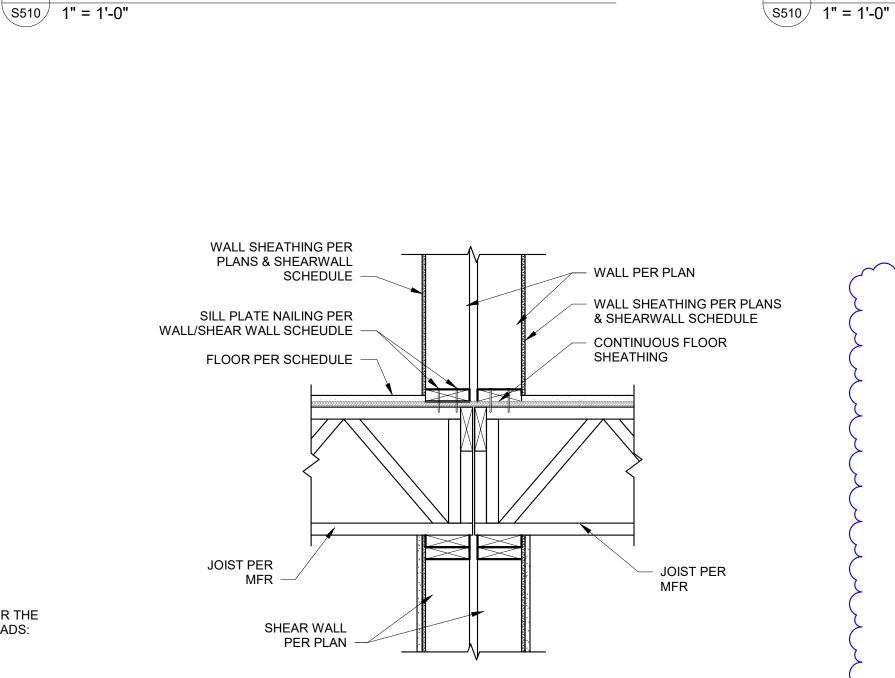
PER PLAN -

6 JOIST BEARING AT EXTERIOR WALL

PER PLAN

- FLOOR JOIST OR ROOF

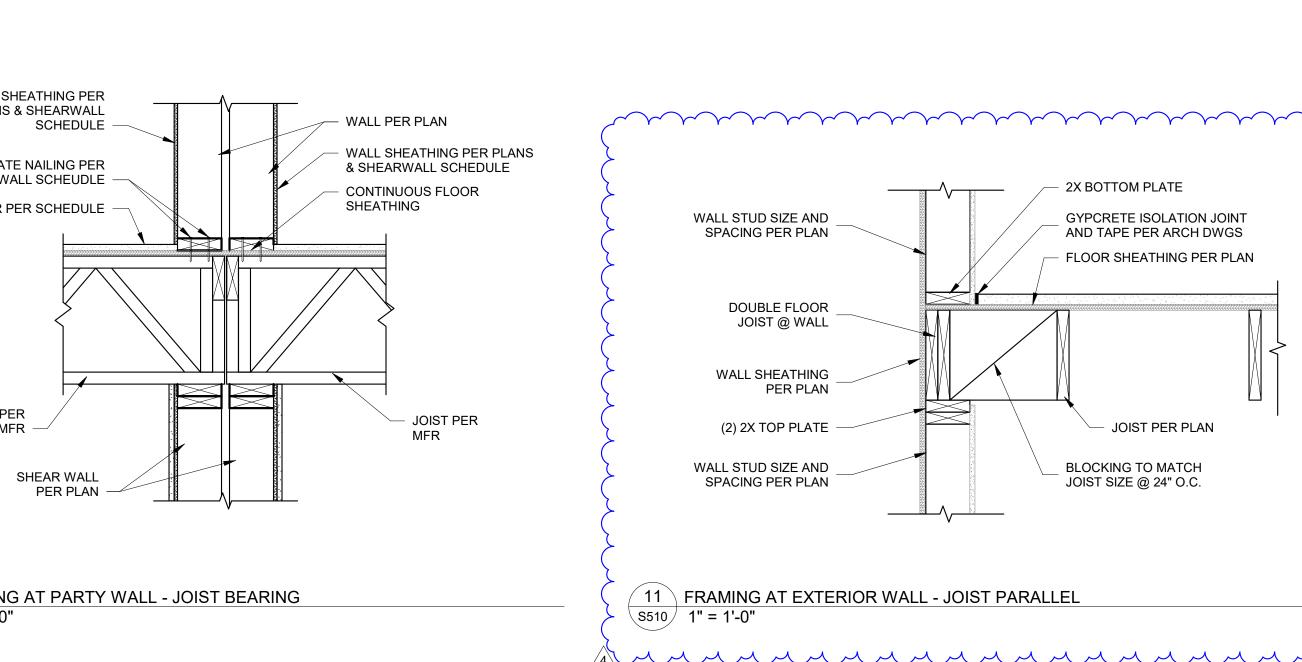
TRUSS PER MFR



FLOOR SHEATHING

- JOIST PER PLAN

PER PLAN

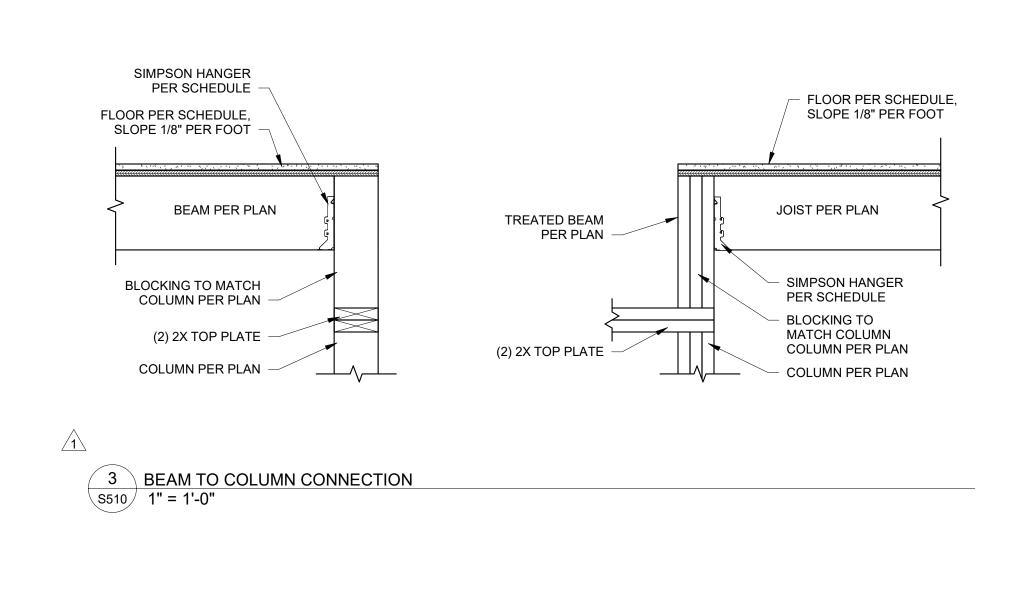


BEAM/JOIST

PER SCHEDULE

BEAM

7 BEAM CONNECTIONS





FLOOR PER SCHEDULE

BEAM/JOIST

PER SCHEDULE

SIMPSON HANGER

PER SCHEDULE

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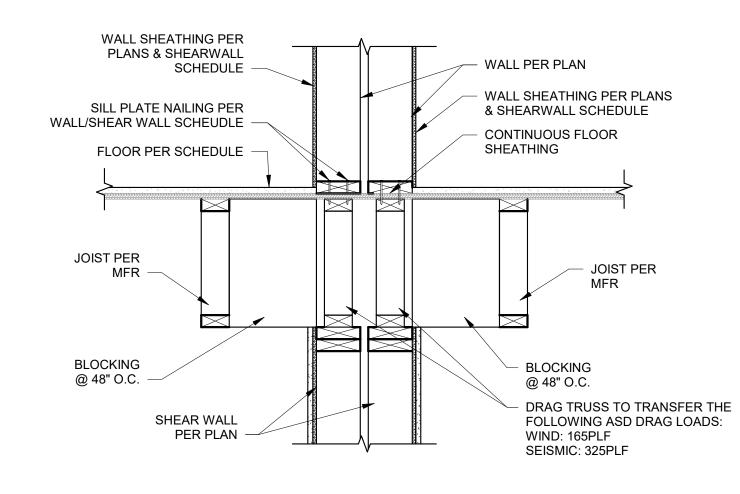
VIEW RAND GILLAM :SERVES

RENZ

TAIL

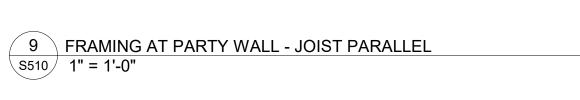
DE **FRAMING** 

DRAWING NO. S510









FLOOR SHEATHING

PER PLAN

FLOOR TRUSS PER MFR

WALL STUD SIZE AND SPACING PER PLAN

CONT. MIN 2x6

RIBBON BOARD

(2) 2X TOP PLATE

WALL STUD SIZE AND SPACING PER PLAN

2 FRAMING AT INTERIOR WALL \S511 / 1" = 1'-0"

3 \ FRAMING AT BREEZEWAY S511 | 1" = 1'-0"

2X RIBBON BOARD TO

MATCH JOIST DEPTH

∠ SCHEDULE \_\_\_\_\_

JOIST PER

SCHEDULE -

FLOOR PER

FASTEN END JOIST THROUGH

SHEATHING TO RIBBON BOARD

W/ EDGE FASTENING PER

DOUBLE TOP PLATE & NAILING PER WALL/SHEAR

SHEATHING PER SHEAR

SHEATHING SCHEDULE

WALL SCHEDULE -

WALL SCHEDULE

WALL PER SCHEDULE

✓ FLOOR TRÙSS

PER MFR

SILL PLATE & NAILING PER

WALL/SHEAR WALL SCHEDULE

2X SQUASH BLOCKING WHERE

MATCH WALL STUD SIZE

WALL PER SCHEDULE

FLOOR TRUSSES DO NOT ALIGN

WITH STUDS ABOVE AND BELOW.

WITH STUDS ABOVE AND BELOW. MATCH WALL STUD SIZE (2) 2X TOP PLATE WALL STUD SIZE AND SPACING PER PLAN

4 \ FLOOR TRUSS & ROOF TRUSS BEARING

INSTALL SHEATHING PER SHEAR

FACE OF WALL - LEVEL 2 ONLY

WALL SCHEDULE ON INSIDE 3

WALL STUD SIZE AND

SPACING PER PLAN

2X BOTTOM PLATE

BOARD

CONT MIN 2x6 RIBBON

FLOOR SHEATHING PER PLAN

FLOOR TRUSS PER MFR

2X SQUASH BLOCKING WHERE

FLOOR TRUSSES DO NOT ALIGN

S511 1" = 1'-0"

DRAG BLOCKING (SEE 1/S520) PER TRUSS MFR TO TRANSFER THE FOLLOWING ASD LOADS: WL: 240PLF EL: 175PLF SHEATHING & FASTENING PER SCHEDULE SLOPE PER ARCH. TRUSS BY TRUSS MFR - LAP AND FASTEN TO WALL STUD

1

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		WYOMING	i.	
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4		ASI #7		04/16/2025
PF	ROJECT NUMBE	R	SET IS	SUE DATE
20	024000185		07/	17/2024
	ENGINEER	DRAWN BY	CHE	CKED BY

CEL

HEIGHTS VIEW GRAND RENZ

DE

DRAWING NO. S511

5 FLOOR FRAMING AT BUMP OUT S511 1" = 1'-0"

1 FRAMING AT CORRIDOR WALL

WALL STUD SIZE AND SPACING PER PLAN

WALLS -

(2) 2X TOP PLATE -

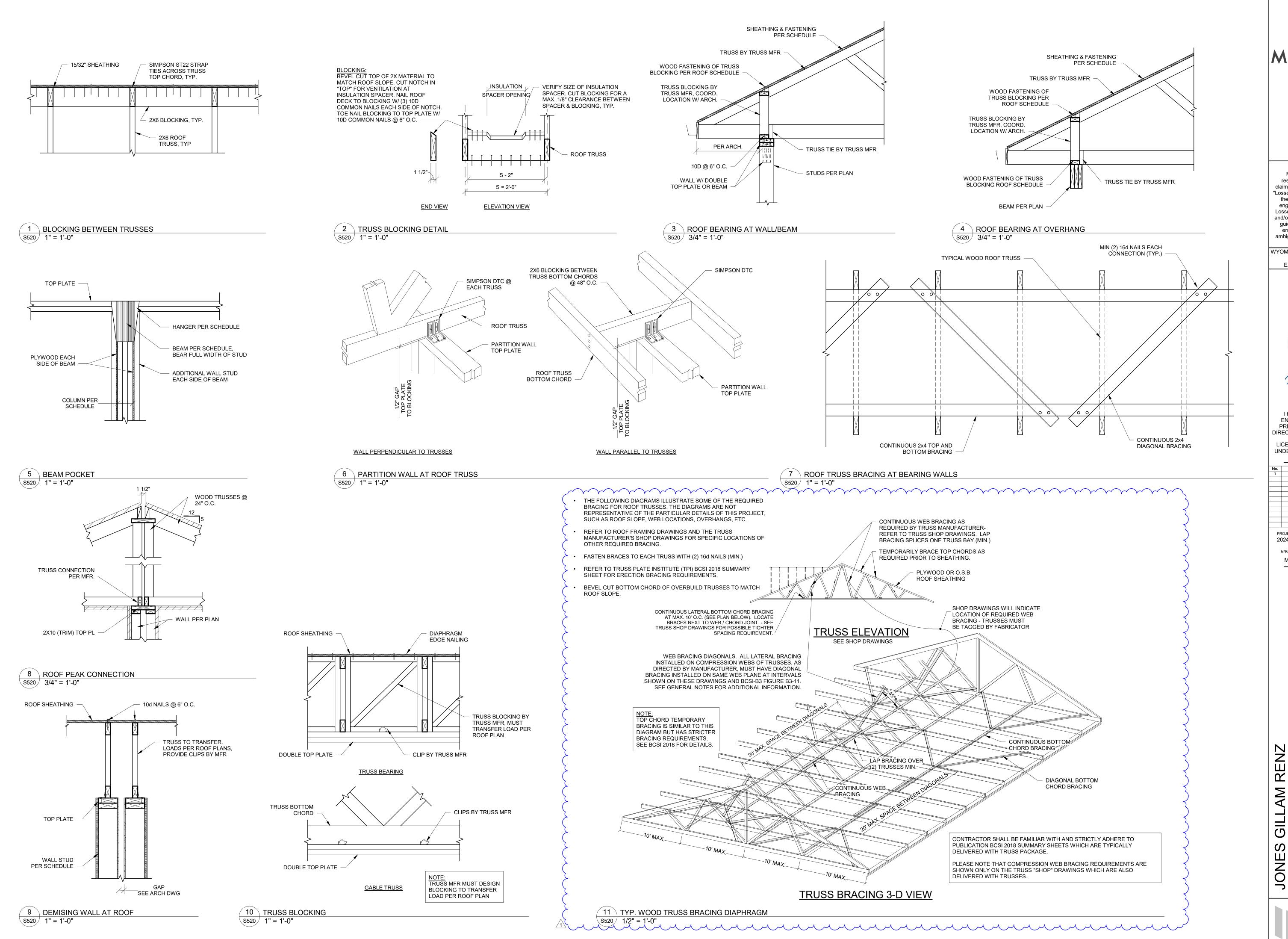
WALL STUD SIZE AND

SPACING PER PLAN

EXTEND FLOOR SHEATHING

TO EXTERIOR BUMP-OUT

S511 1" = 1'-0"



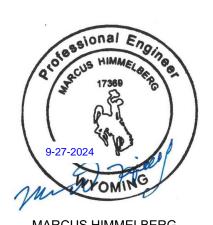


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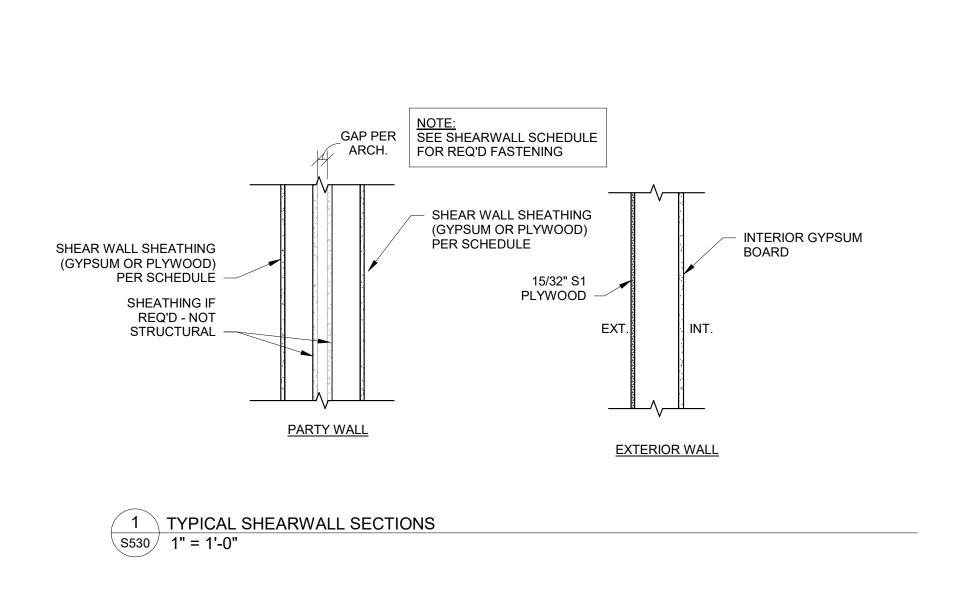
UNDER THE LAWS OF THE STATE OF WYOMING.

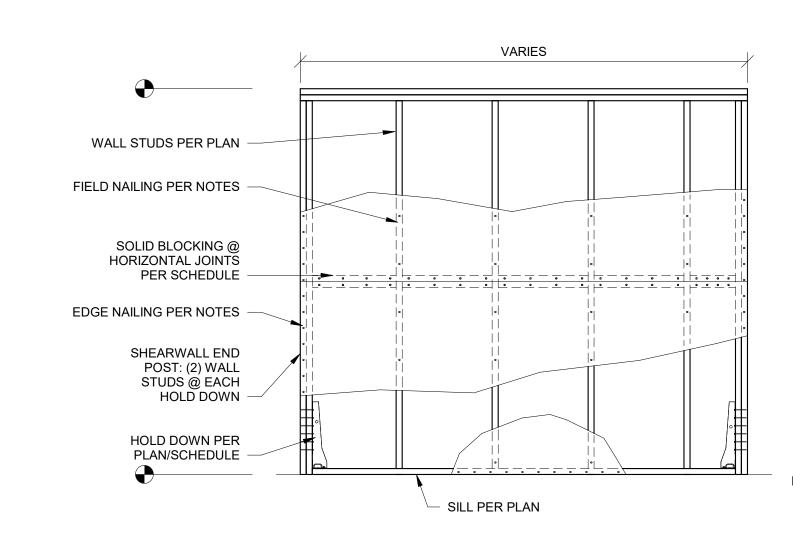
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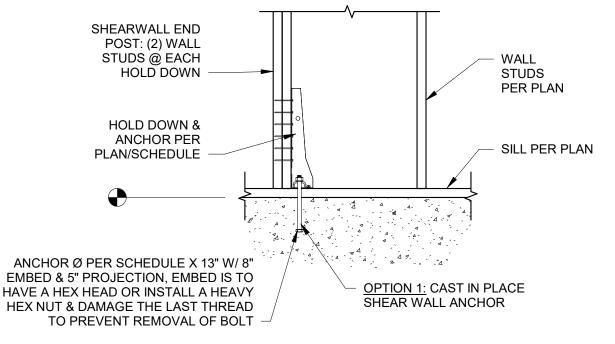
HEIGHT RENZ

DRAWING NO. S520

GILL,

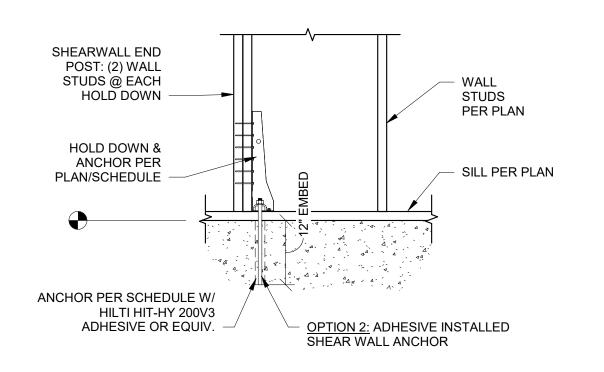


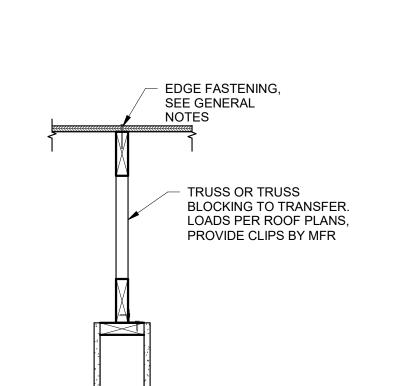


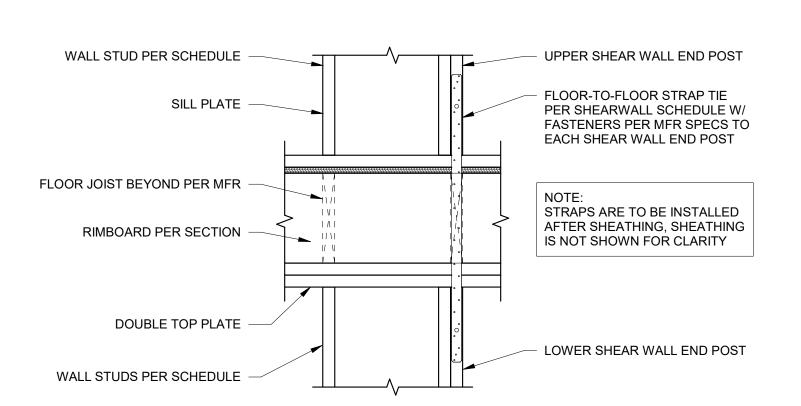


3 SHEARWALL HOLD DOWN

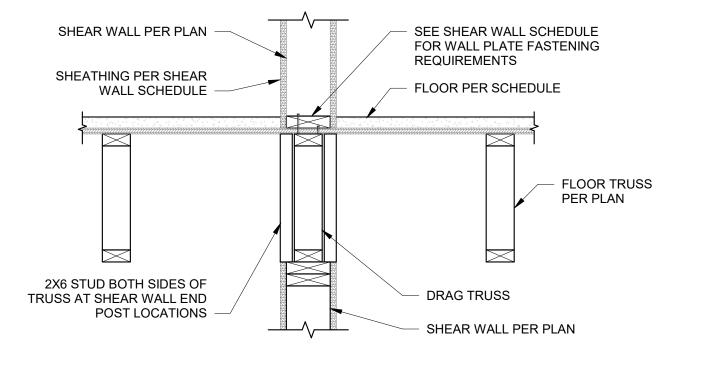
S530 3/4" = 1'-0"

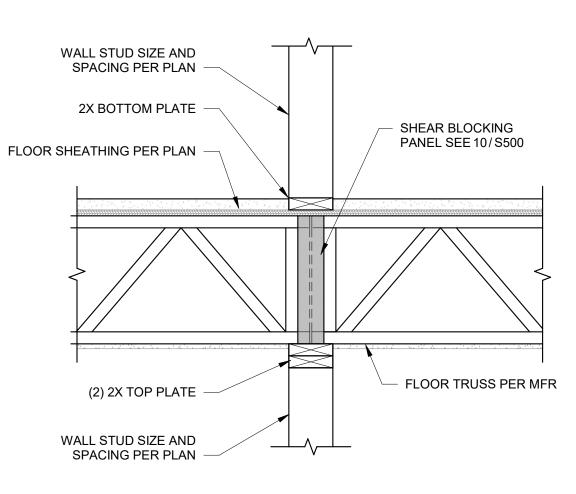






2 SHEARWALL NAILING S530 1/2" = 1'-0"



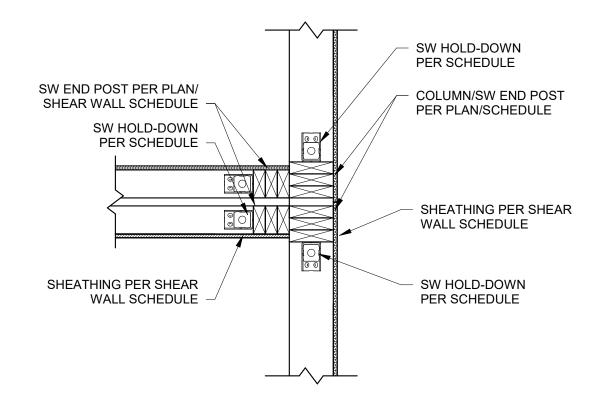


4 ROOF TRUSS AT SHEAR WALL 5530 1" = 1'-0"

5 FLOOR-TO-FLOOR STRAP TIE \$530 1" = 1'-0"

6 SHEAR WALL PARALLEL TO FLOOR TRUSSES

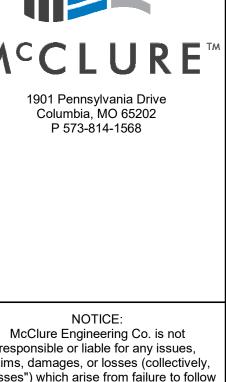




8 SHEARWALL END @ COLUMNS - PLAN S530 1" = 1'-0"

VIEW GRAND RENZ GILLAM ESERVES JONES

DRAWING NO.



responsible or liable for any issues, claims, damages, or losses (collectively 'Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors' guidance with respect to any alleged errors, omissions, inconsistencies, ambiguities, or conflicts contained within the Plans or Specifications. WYOMING CERTIFICATE OF AUTHORITY NO. E-1790 EXPIRES: DECEMBER 31, 2025

MARCUS HIMMELBERG 17369 12/31/2024 I HEREBY CERTIFY THAT THIS

**ENGINEERING DOCUMENT WAS** PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY

LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WYOMING.

PROJECT NUMBER SET ISSUE DATE 2024000185 07/17/2024 DRAWN BY CHECKED BY MDH CEL

HEIGHTS

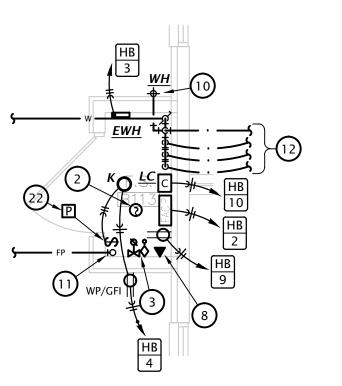
TAIL 

S530

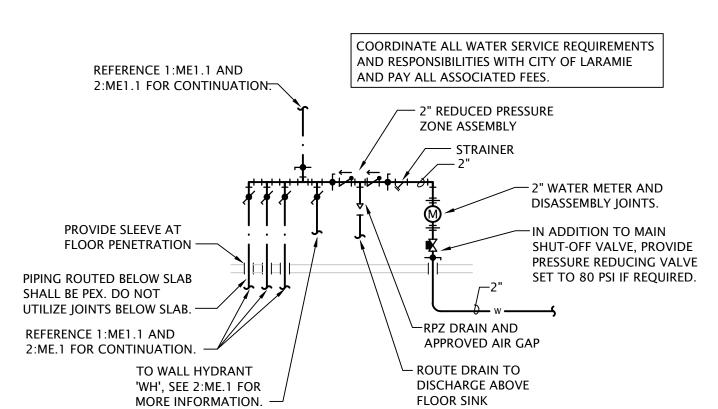
**ME1.1** 

7-17-2024 22-3262

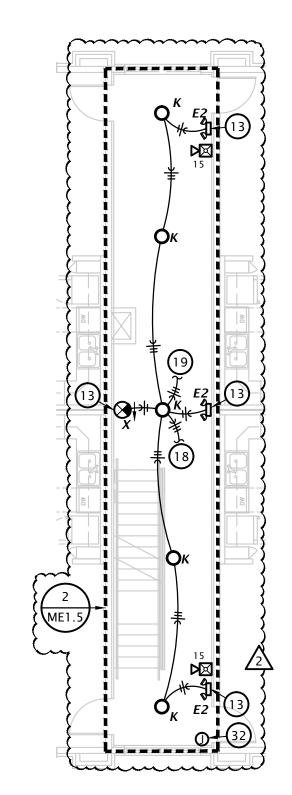
SHEET NO .:



## **BUILDING - B WATER RISER CLOSET**1/4" = 1'-0"

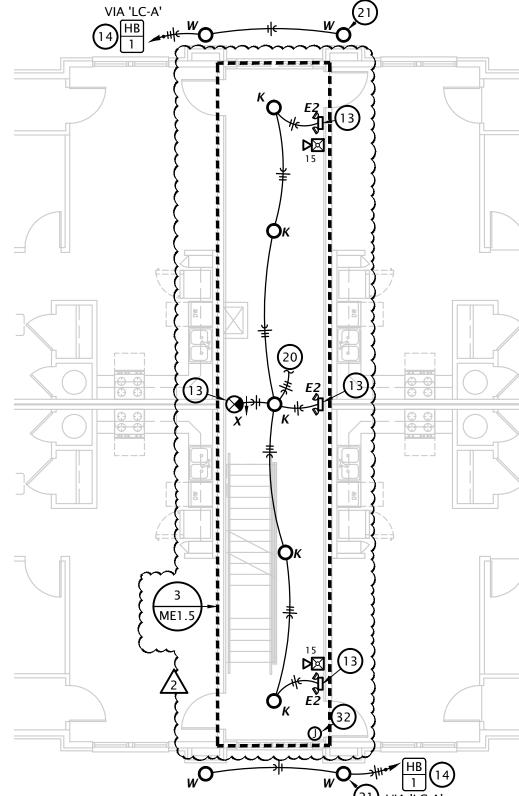


BUILDING - B WATER SERVICE RISER
NO SCALE



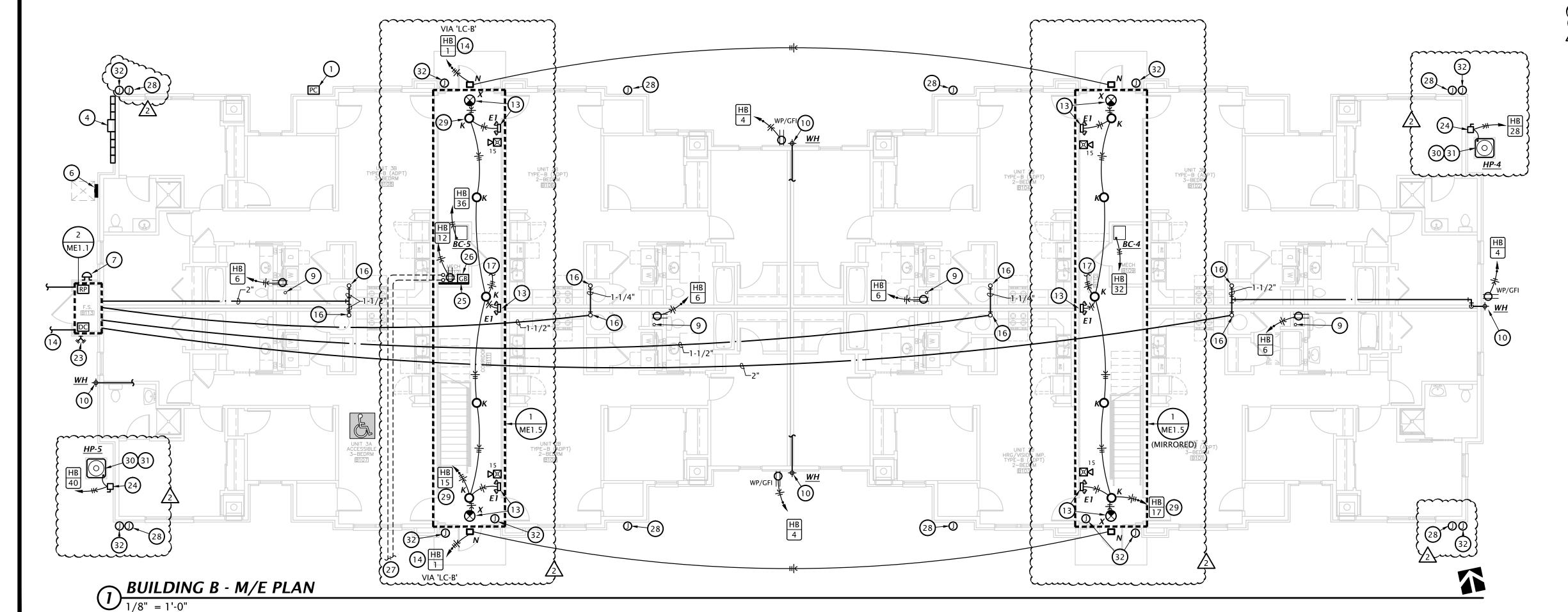
2ND FLOOR BREEZEWAY PLAN

1/8" = 1'-0"



5 3RD FLOOR BREEZEWAY PLAN

1/8" = 1'-0"



## **#** M/E NOTES BY SYMBOL

EXACT LOCATION WITH UTILITY COMPANY.

- 1. PROVIDE PHOTOCELL ON NORTH SIDE OF BUILDING FOR OPERATION OF BREEZEWAY AND BUILDING MOUNTED LIGHTS, SEE DETAIL 2:E6.1 FOR MORE INFORMATION.
- PROVIDE SMOKE DETECTOR ABOVE FACP AND CONNECT TO FIRE ALARM SYSTEM.
- CONNECT FIRE SPRINKLER FLOW AND TAMPER SWITCHES TO FIRE ALARM SYSTEM. FIRST FLOOR ONLY: ELECTRIC SERVICE AND METER. SEE RISER DIAGRAMS ON SHEET E6.2. SEE M/E SITE PLAN FOR EXACT LOCATION AT EACH BUILDING AND COORDINATE
- HOUSE PANEL 'HA'. PROVIDE RESERVED SPACE TO ALLOW INSTALLATION OF A 2-POLE BREAKER FOR FUTURE SOLAR POWER SYSTEM. THIS SPACE IS TO BE LABELED 'FOR FUTURE SOLAR ELECTRIC'. THE RESERVED SPACE IS TO BE POSITIONED AT THE END OF THE PANEL THAT IS OPPOSITE FROM THE PANEL SUPPLY CONDUCTOR CONNECTION.
- HOUSE PANEL 'HB'. PROVIDE RESERVED SPACE TO ALLOW INSTALLATION OF A 2-POLE BREAKER FOR FUTURE SOLAR POWER SYSTEM. THIS SPACE IS TO BE LABELED 'FOR FUTURE SOLAR ELECTRIC'. THE RESERVED SPACE IS TO BE POSITIONED AT THE END OF THE PANEL THAT IS OPPOSITE FROM THE PANEL SUPPLY CONDUCTOR CONNECTION.
- 7. EXTERIOR FIRE ALARM BELL, CONNECT TO FIRE ALARM PANEL SYSTEM COORDINATE LOCATION WITH AUTHORITY HAVING JURISDICTION.
- 8. PROVIDE (2) PHONE LINES FOR MONITORING OF FIRE SPRINKLER SYSTEM. REFERENCE SPECIFICATION NOTES FOR ADDITIONAL INFORMATION.
- 9. 4" PVC PIPE FOR FUTURE RADON SYSTEM BY OTHERS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT. PROVIDE OUTLET IN ATTIC NEAR RADON PIPE FOR FUTURE RADON FAN.
- 10. CONNECT NON-FREEZE WALL HYDRANT WITH 1/2" CW BRANCH TO SERVICE PIPING AHEAD OF TENANT WATER METER AND PROVIDE SHUT-OFF VALVE ACCESSIBLE IN MECHANICAL CLOSET. REFERENCE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT AND COORDINATE WITH G.C. (TYPICAL)
- 11. FIRE PROTECTION RISER SEE DETAIL ON P6.1.
- 12. SEE OVERALL PLAN ON THIS SHEET FOR CONTINUATION. COORDINATE FINAL ROUTING OF MAIN WATER PIPING WITH G.C. PRIOR TO ROUGHING IN. (TYPICAL)
- 13. CONNECT EMERGENCY LIGHT/EXIT SIGN TO UNSWITCHED CIRCUITRY SERVING
- 14. EXTERIOR LIGHTS TO BE CONTROLLED VIA PHOTOCELL AND CON TACTOR, SEE DETAIL 2:E6.1 FOR MORE INFORMATION.
- 15. WHERE FIRE PROTECTION PIPING MUST CROSS HALLWAY, ROUTE IN SOFFIT. PROVIDE HEAT TRACE AND INSULATE PIPING IN SOFFIT PER HEAT TRACE MANUFACTURER'S INSTRUCTIONS. PROVIDE ALL REQUIRED HEAT TRACE COMPONENTS AND CONTROLS FOR FREEZE PROTECTION OF WATER PIPING. COORDINATE WITH E.C.
- 16. COLD WATER RISER, SEE RISER DIAGRAM S ON SHEET P5.2 FOR MORE INFORMATION.
- 17. TO LIGHTS ON 2ND FLOOR BREEZEWAY.
- 18. FROM LIGHTS ON 1ST FLOOR BREEZEWAY.
- 19. TO LIGHTS ON 3RD FLOOR BREEZEWAY.
- 20. FROM LIGHTS ON 2ND FLOOR BREEZEWAY.
- 21. DOWNLIGHTS TO BE INSTALLED IN SOFFIT ABOVE THIRD FLOOR. (TYPICAL)
- PROVIDE MANUAL PULL STATION AT FACP CLOSET AND CONNECT TO FIRE ALARM
- 23. COORDINATE EXACT LOCATION OF FIRE DEPARTMENT CONNECTION WITH
- AUTHORITY HAVING JURISDICTION UTILIZE FLEXIBLE LIQUID TIGHT CONDUIT BETWEEN DISCONNECT AND HEAT PUMP.

  25. TELEPHONE TERMINAL BOARD: COVER WALL AS INDICATED ON PLAN WITH 4'x8'x3/4"
- ACX FIRE RETARDANT PLYWOOD SHEETS INSTALLED VERTICALLY WITH BOTTOM AT 6" AFF. PLYWOOD SHALL BE PERMANENTLY FASTENED TO THE WALL BY MEANS OF WALL ANCHORS UTILIZING GALVANIZED, ZINC PLATED, OR STAINLESS STEEL HARDWARE WITH A FLAT HEAD. FINISHED INSTALLATION SHALL HAVE FLUSH APPEARANCE WITH COUNTERSUNK SCREW HEADS TO PREVENT SPLITTING OF THE PLYWOOD. DRYWALL SCREWS ARE NOT ACCEPTABLE. PAINT WITH TWO COATS OF LIGHT GRAY FIRE RETARDANT SEALER PRIOR TO INSTALLATION OF ANY EQUIPMENT.
- TELECOMMUNICATION GROUND BAR AT 18" AFF SHALL BE 13-1/4"W x 2"H x 1/4" THICK ELECTRO-TIN PLATED COPPER BUS BAR, COMPETE WITH INSULATED STAND-OFFS AND STAINLESS STEEL BRACKETS, ERICO #TGBA14LO6PT OR EQUAL. BOND TO EQUIPMENT GROUND BUS AT METER CENTER MAIN AND HOUSE PANEL WITH #4 AWG INSULATED STRANDED COPPER. INSTALL GROUNDING / BONDING CONDUCTORS IN 3/4" CONDUIT WHERE EXPOSED AND WHERE SUBJECT TO PHYSICAL DAMAGE. ALL CONNECTION TO GROUND BAR SHALL BE MEADE USING COMPRESSION TYPE LUGS (MECHANICAL LUGS ARE NOT ACCEPTABLE).
- 27. (2) 2" CONDUITS FOR COMMUNICATIONS SERVICES. SEE SITE PLAN, E1.0 FOR
- CONTINUATION. 28. PROVIDE JUNCTION BOX IN SOFFIT FOR FUTURE ROOF AND GUTTER DE-ICING CABLE. PROVIDE 1" CONDUIT WITH PULL STRING FROM JUNCTION BOX TO HOUSE PANEL. PROVIDE JUNCTION BOX WITH WEATHER PROOF BLANK COVER.
- 29. CIRCUIT BREEZWAY LIGHTS FOR CONTINUOUS OPERATION. MOUNT HEAT PUMP ON 3-1/2" CONCRETE PAD. COORDINATE EXACT LOCATION WITH
- 31. ROUTE REFRIGERANT PIPING FROM HEAT PUMP TO MATCHING BLOWER COIL. PENETRATE WALL 18" ABOVE GRADE AND ROUTE PIPING CONCEALED IN WALLS AND ABOVE CEILINGS. COORDINATE LINE SIZE WITH MANUFACTURER.
- 32. PROVIDE ROUGH-IN FOR CAMERA. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH OWNER.

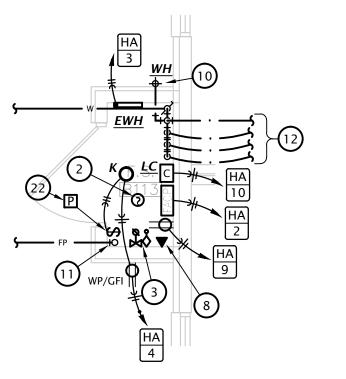
ALL AREAS OF BUILDINGS TO BE PROTECTED WITH SPRINKLER SYSTEM DESIGNED IN ACCORDANCE WITH NFPA 13R. FIRE PROTECTION CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS TO AHJ FOR APPROVAL. BREEZEWAYS, BALCONIES, AND OTHER UNHEATED AREAS ARE TO BE PROVIDED WITH FREEZE-PROOF HEADS AND PIPING.

SEE SHEET P4.1 FOR DOMESTIC WATER

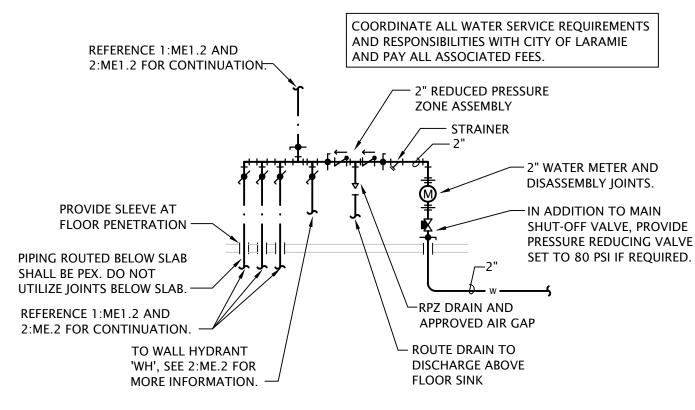
DISTRIBUTION IN INDIVIDUAL APARTMENTS.

9-27-2024 ASI #7 - 4-18-2025

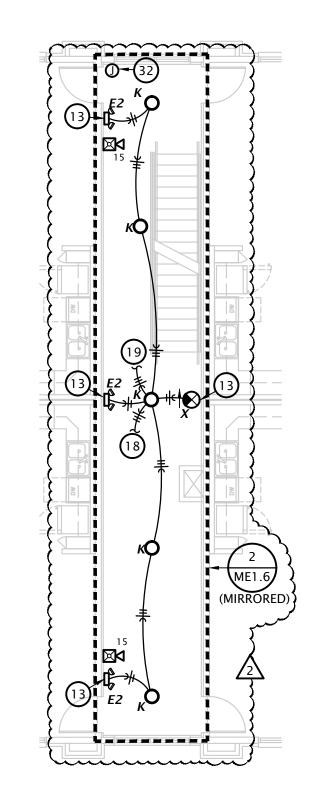
LST Consulting Engineers, PA 4809 Vue Du Lac Place, Suite 201 Manhattan, KS 66503 785.587.8042



# BUILDING - A WATER RISER CLOSET 1/4" = 1'-0"

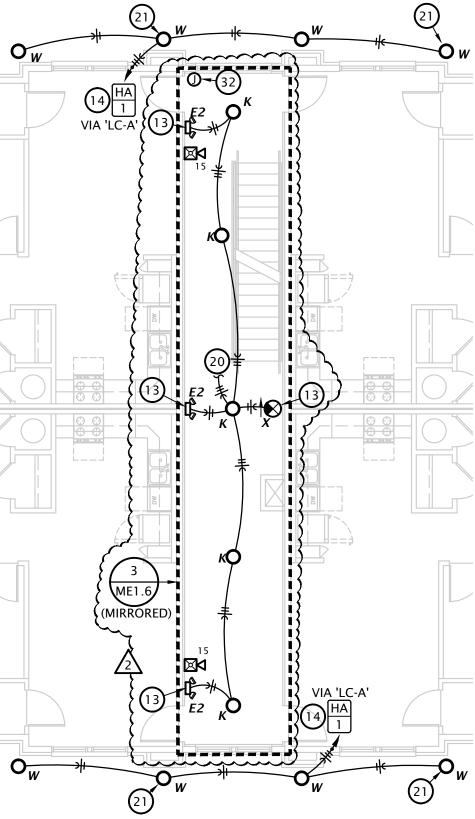


BUILDING - A WATER SERVICE RISER
NO SCALE



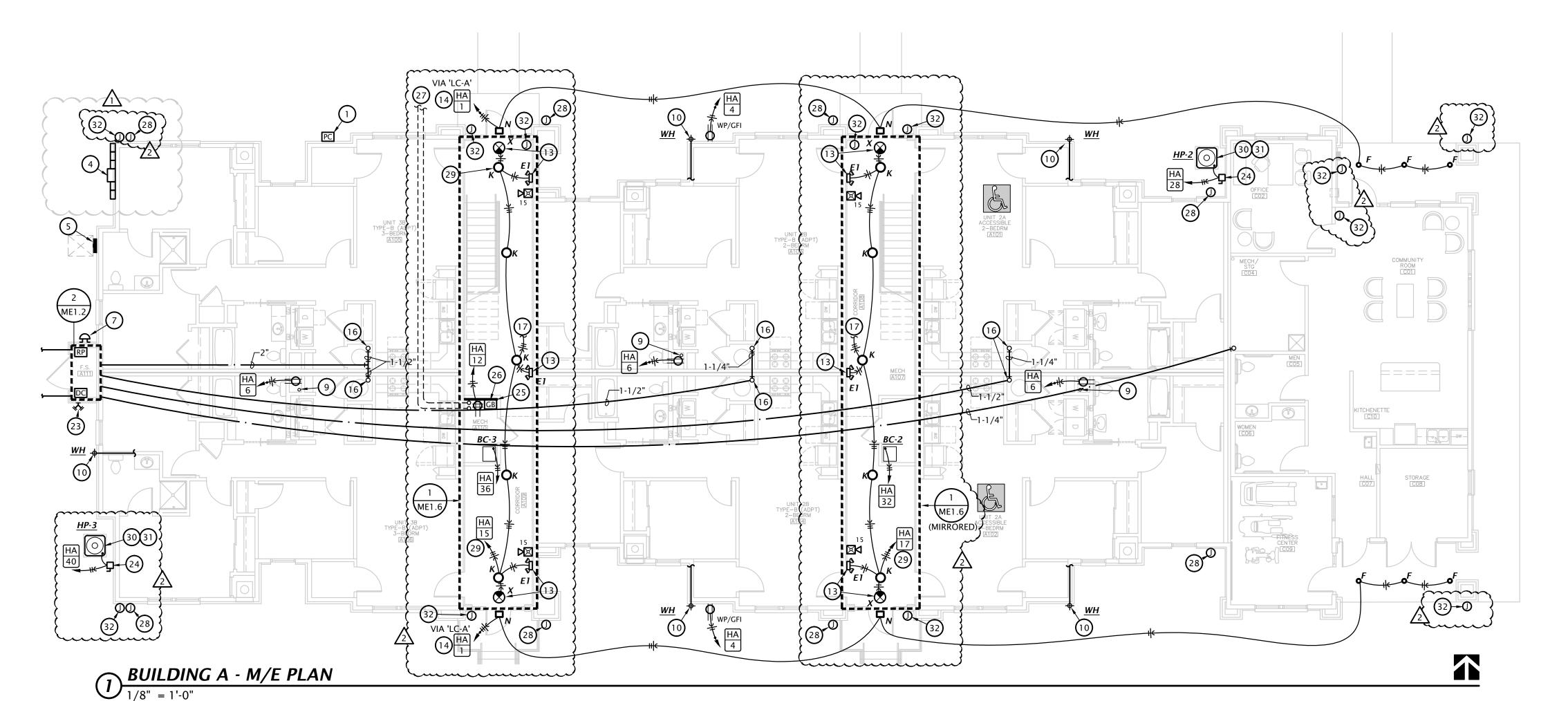
4 2ND FLOOR BREEZEWAY PLAN

1/8" = 1'-0"



3RD FLOOR BREEZEWAY PLAN

1/8" = 1'-0"



## **#** M/E NOTES BY SYMBOL

- 1. PROVIDE PHOTOCELL ON NORTH SIDE OF BUILDING FOR OPERATION OF BREEZEWAY AND BUILDING MOUNTED LIGHTS, SEE DETAIL 2:E6.1 FOR MORE INFORMATION.
- 2. PROVIDE SMOKE DETECTOR ABOVE FACP AND CONNECT TO FIRE ALARM SYSTEM.
- CONNECT FIRE SPRINKLER FLOW AND TAMPER SWITCHES TO FIRE ALARM SYSTEM. 4. FIRST FLOOR ONLY: ELECTRIC SERVICE AND METER. SEE RISER DIAGRAMS ON SHEET E6.2. SEE M/E SITE PLAN FOR EXACT LOCATION AT EACH BUILDING AND COORDINATE EXACT LOCATION WITH UTILITY COMPANY.
- 5. HOUSE PANEL 'HA'. PROVIDE RESERVED SPACE TO ALLOW INSTALLATION OF A 2-POLE BREAKER FOR FUTURE SOLAR POWER SYSTEM. THIS SPACE IS TO BE LABELED 'FOR FUTURE SOLAR ELECTRIC'. THE RESERVED SPACE IS TO BE POSITIONED AT THE END OF THE PANEL THAT IS OPPOSITE FROM THE PANEL SUPPLY CONDUCTOR CONNECTION.
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- 8. PROVIDE (2) PHONE LINES FOR MONITORING OF FIRE SPRINKLER SYSTEM. REFERENCE SPECIFICATION NOTES FOR ADDITIONAL INFORMATION.
- 9. 4" PVC PIPE FOR FUTURE RADON SYSTEM BY OTHERS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT. PROVIDE OUTLET IN ATTIC NEAR RADON PIPE FOR FUTURE RADON FAN.
- 10. CONNECT NON-FREEZE WALL HYDRANT WITH 1/2" CW BRANCH TO SERVICE PIPING AHEAD OF TENANT WATER METER AND PROVIDE SHUT-OFF VALVE ACCESSIBLE IN MECHANICAL CLOSET. REFERENCE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT AND COORDINATE WITH G.C. (TYPICAL)
- 11. FIRE PROTECTION RISER SEE DETAIL ON P6.1.
- 12. SEE OVERALL PLAN ON THIS SHEET FOR CONTINUATION. COORDINATE FINAL ROUTING OF MAIN WATER PIPING WITH G.C. PRIOR TO ROUGHING IN. (TYPICAL)
- 13. CONNECT EMERGENCY LIGHT/EXIT SIGN TO UNSWITCHED CIRCUITRY SERVING LIGHTING IN BREEZEWAY.
- 14. EXTERIOR LIGHTS TO BE CONTROLLED VIA PHOTOCELL AND CON TACTOR, SEE DETAIL 2:E6.1 FOR MORE INFORMATION.
- 15. WHERE FIRE PROTECTION PIPING MUST CROSS HALLWAY, ROUTE IN SOFFIT. PROVIDE HEAT TRACE AND INSULATE PIPING IN SOFFIT PER HEAT TRACE MANUFACTURER'S INSTRUCTIONS. PROVIDE ALL REQUIRED HEAT TRACE COMPONENTS AND CONTROLS FOR FREEZE PROTECTION OF WATER PIPING. COORDINATE WITH E.C.
- 16. COLD WATER RISER, SEE RISER DIAGRAM S ON SHEET P5.2 FOR MORE INFORMATION.
- 17. TO LIGHTS ON 2ND FLOOR BREEZEWAY.
- 18. FROM LIGHTS ON 1ST FLOOR BREEZEWAY.
- 19. TO LIGHTS ON 3RD FLOOR BREEZEWAY.
- 20. FROM LIGHTS ON 2ND FLOOR BREEZEWAY.
- 21. DOWNLIGHTS TO BE INSTALLED IN SOFFIT ABOVE THIRD FLOOR. (TYPICAL) 22. PROVIDE MANUAL PULL STATION AT FACP CLOSET AND CONNECT TO FIRE ALARM
- 23. COORDINATE EXACT LOCATION OF FIRE DEPARTMENT CONNECTION WITH
- AUTHORITY HAVING JURISDICTION
- UTILIZE FLEXIBLE LIQUID TIGHT CONDUIT BETWEEN DISCONNECT AND HEAT PUMP.

  25. TELEPHONE TERMINAL BOARD: COVER WALL AS INDICATED ON PLAN WITH 4'x8'x3/4" ACX FIRE RETARDANT PLYWOOD SHEETS INSTALLED VERTICALLY WITH BOTTOM AT 6" AFF. PLYWOOD SHALL BE PERMANENTLY FASTENED TO THE WALL BY MEANS OF WALL ANCHORS UTILIZING GALVANIZED, ZINC PLATED, OR STAINLESS STEEL HARDWARE WITH A FLAT HEAD. FINISHED INSTALLATION SHALL HAVE FLUSH APPEARANCE WITH COUNTERSUNK SCREW HEADS TO PREVENT SPLITTING OF THE PLYWOOD. DRYWALL SCREWS ARE NOT ACCEPTABLE. PAINT WITH TWO COATS OF LIGHT GRAY FIRE RETARDANT SEALER PRIOR TO INSTALLATION OF ANY EQUIPMENT.
- 26. TELECOMMUNICATION GROUND BAR AT 18" AFF SHALL BE 13-1/4"W x 2"H x 1/4" THICK ELECTRO-TIN PLATED COPPER BUS BAR, COMPETE WITH INSULATED STAND-OFFS AND STAINLESS STEEL BRACKETS, ERICO #TGBA14LO6PT OR EQUAL. BOND TO EQUIPMENT GROUND BUS AT METER CENTER MAIN AND HOUSE PANEL WITH #4 AWG INSULATED STRANDED COPPER. INSTALL GROUNDING / BONDING CONDUCTORS IN 3/4" CONDUIT WHERE EXPOSED AND WHERE SUBJECT TO PHYSICAL DAMAGE. ALL CONNECTION TO GROUND BAR SHALL BE MEADE USING COMPRESSION
- TYPE LUGS (MECHANICAL LUGS ARE NOT ACCEPTABLE). 27. (2) 2" CONDUITS FOR COMMUNICATIONS SERVICES. SEE SITE PLAN, E1.0 FOR
- CONTINUATION. 28. PROVIDE JUNCTION BOX IN SOFFIT FOR FUTURE ROOF AND GUTTER DE-ICING CABLE. PROVIDE 1" CONDUIT WITH PULL STRING FROM JUNCTION BOX TO HOUSE PANEL. PROVIDE JUNCTION BOX WITH WEATHER PROOF BLANK COVER.
- 29. CIRCUIT BREEZWAY LIGHTS FOR CONTINUOUS OPERATION. MOUNT HEAT PUMP ON 3-1/2" CONCRETE PAD. COORDINATE EXACT LOCATION WITH
- 31. ROUTE REFRIGERANT PIPING FROM HEAT PUMP TO MATCHING BLOWER COIL. PENETRATE WALL 18" ABOVE GRADE AND ROUTE PIPING CONCEALED IN WALLS AND ABOVE CEILINGS. COORDINATE LINE SIZE WITH MANUFACTURER.
- 32. PROVIDE ROUGH-IN FOR CAMERA. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH OWNER.

NOTE: ALL AREAS OF BUILDINGS TO BE PROTECTED WITH SPRINKLER SYSTEM DESIGNED IN ACCORDANCE WITH NFPA 13R. FIRE PROTECTION CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS TO AHJ FOR APPROVAL. BREEZEWAYS, BALCONIES, AND OTHER UNHEATED AREAS ARE TO BE PROVIDED WITH FREEZE-PROOF HEADS AND PIPING.

SEE SHEET P4.1 FOR DOMESTIC WATER

DISTRIBUTION IN INDIVIDUAL APARTMENTS.

7-17-2024 22-3262 SHEET NO .:

**ME1.2** 

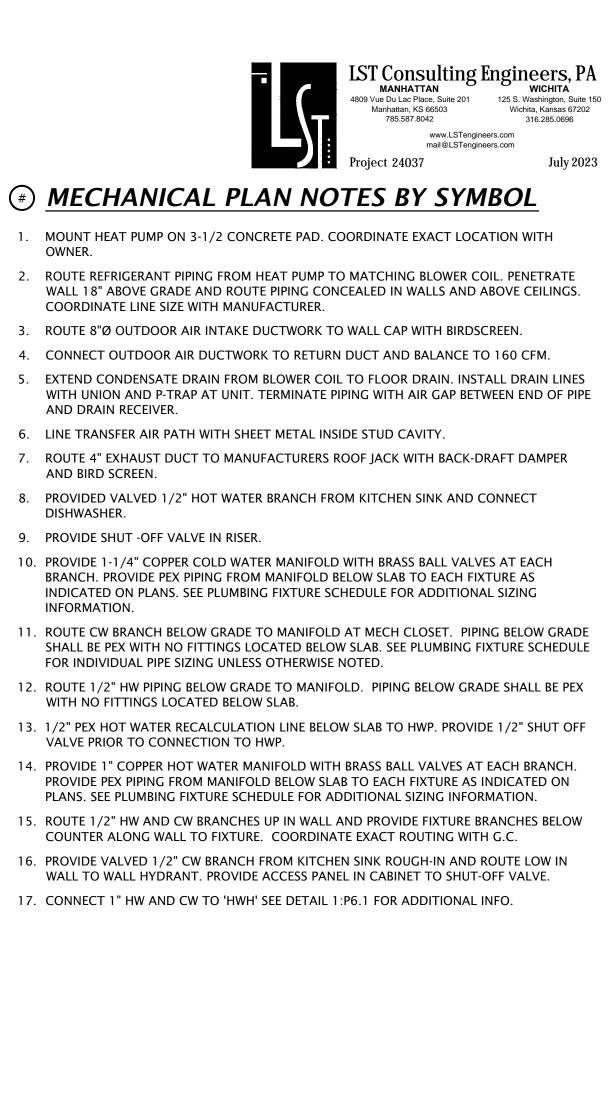
ASI #5 - 3-7-2025

ASI #7 - 4-18-2025

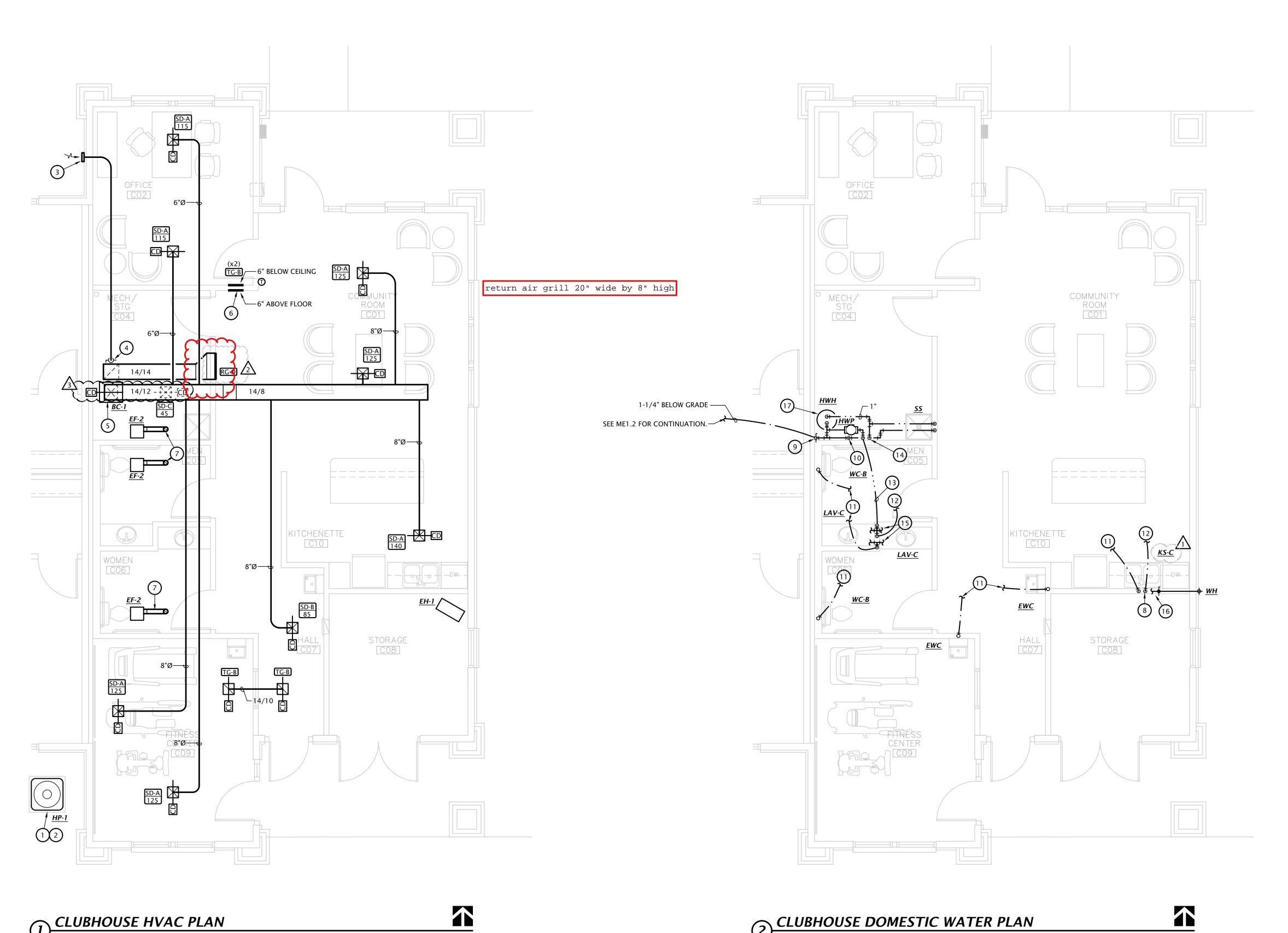
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22-3262 SHEET NO.:

**ME1.3** 



DISHWASHER.



2 CLUBHOUSE DOMESTIC WATER PLAN

1/4" = 1'-0"

CLUBHOUSE HVAC PLAN

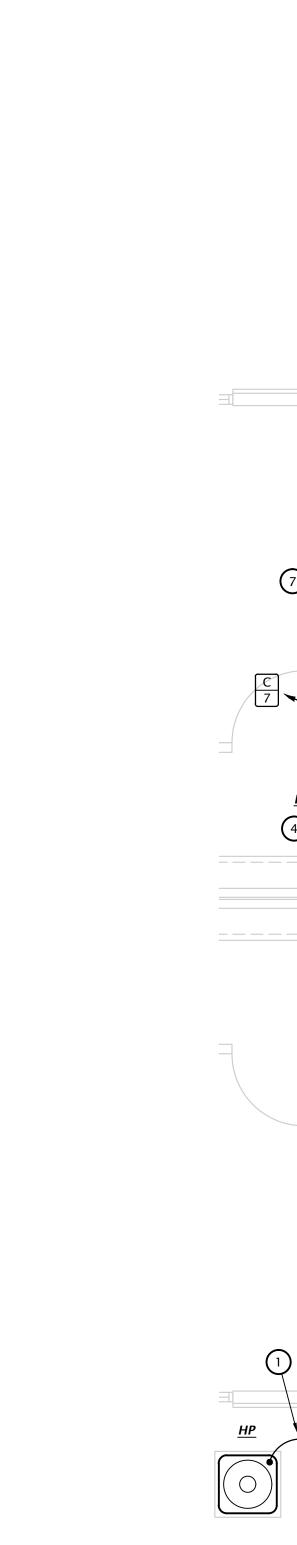
1/4" = 1'-0"

SEE P1.3 FOR CLUBHOUSE WASTE AND VENT PIPING

ASI #5 - 3-7-2025

7-17-2024
22-3262

**ME1.4** 

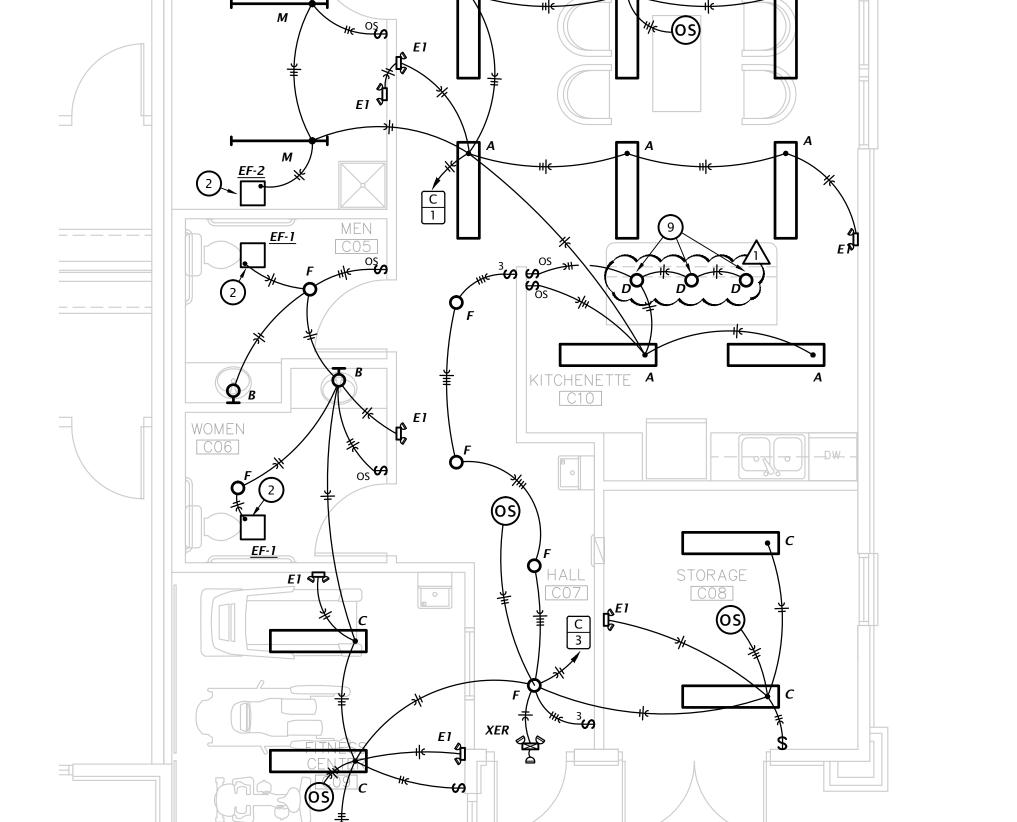


2 CLUBHOUSE POWER PLAN

1/4" = 1'-0"

COMMUNITY

ROOM



COMMUNITY

ROOM



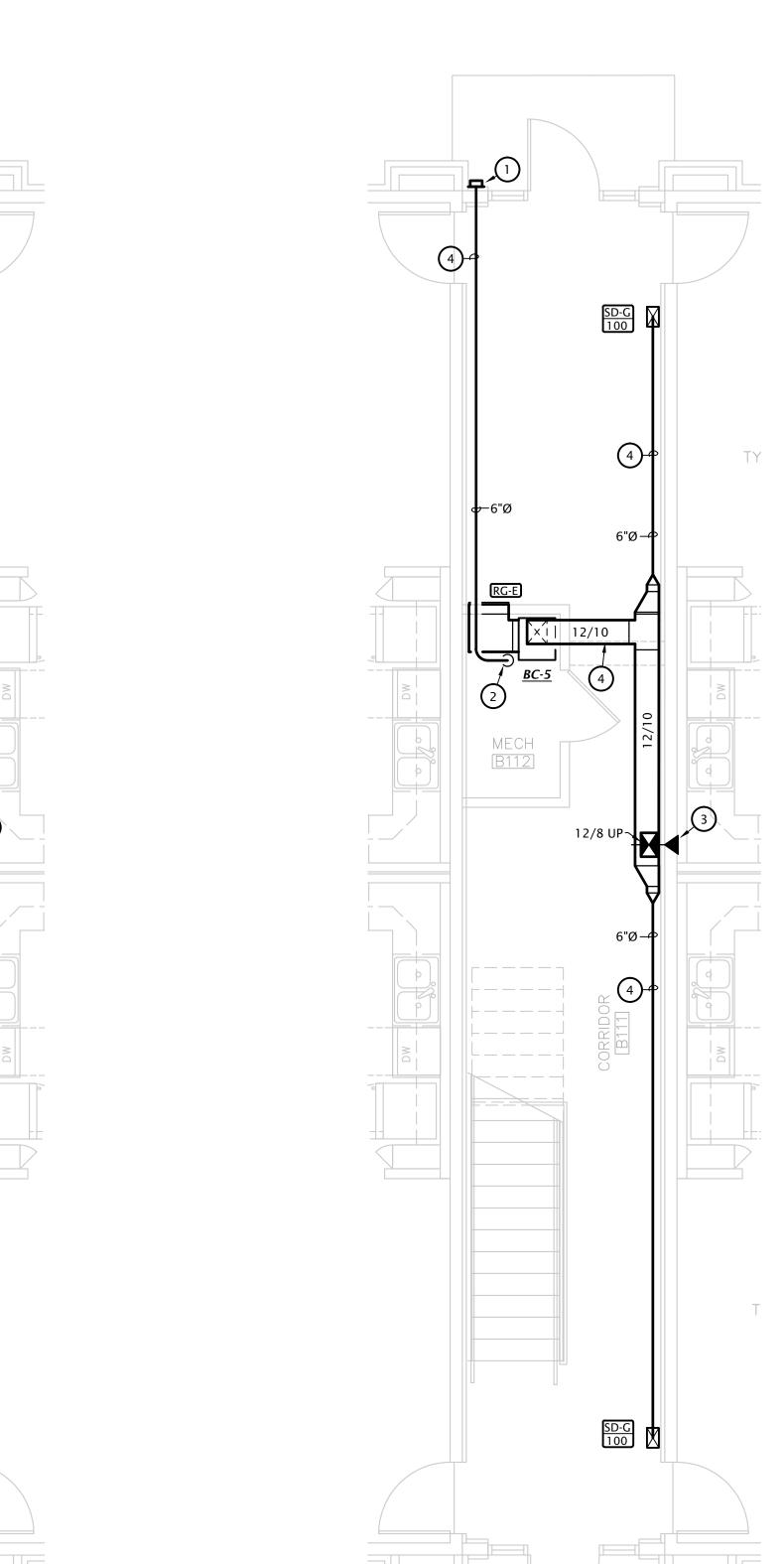
## **#** ELECTRICAL PLAN NOTES BY SYMBOL

- 1. PROVIDE 60A/2P/240V NEMA 3R DISCONNECT SWITCH AND CONNECT HEAT PUMP. UTILIZE FLEXIBLE LIQUID TIGHT CONDUIT BETWEEN DISCONNECT AND HEAT PUMP.
- 2. CONNECT EXHAUST FAN PROVIDED BY MECHANICAL CONTRACTOR.
- 3. COORDINATE FINAL LOCATIONS O ALL CATV AND PHONE OUTLETS WITH OWNER.
- 4. PROVIDE 30A/2P DISCONNECT SWITCH AND CONNECT WATER HEATER.
- 5. MAKE CONNECTION TO BLOWER COIL. SEE EQUIPMENT SCHEDULE FOR MORE INFORMATION. COORDINATE REQUIREMENTS WITH EQUIPMENT PROVIDER.
- 6. PROVIDE SLIT RECEPTACLE BELOW COUNTER FOR CORD AND PLUG CONNECTION OF DISHWASHER AND GARBAGE DISPOSER. SWITCH BOTTOM HALF OF RECEPTACLE FOR GARBAGE DISPOSER AND WIRE TOP HALF TO UN-SWITCHED CIRCUIT FOR DISHWASHER. PROVIDE CORD AND GROUNDING PLUG AS REQUIRED.
- 7. TELECOM DISTRIBUTION DEVICE APPROXIMATELY 4'-0" AFF. COORDINATE REQUIREMENTS WITH UTILITY PROVIDER.
- 8. PROVIDE JUNCTION BOX IN SOFFIT FOR FUTURE ROOF AND GUTTER DE-ICING CABLE. PROVIDE 1" CONDUIT WITH PULL STRING FROM JUNCTION BOX TO CLUBHOUSE PANEL 'C'. PROVIDE JUNCTION BOX WITH WEATHERPROOF BLANK COVER.
- 9. COORDINATE EXACT PENDANT LOCATION AND HEIGHT WITH INTERIOR DESIGNER.

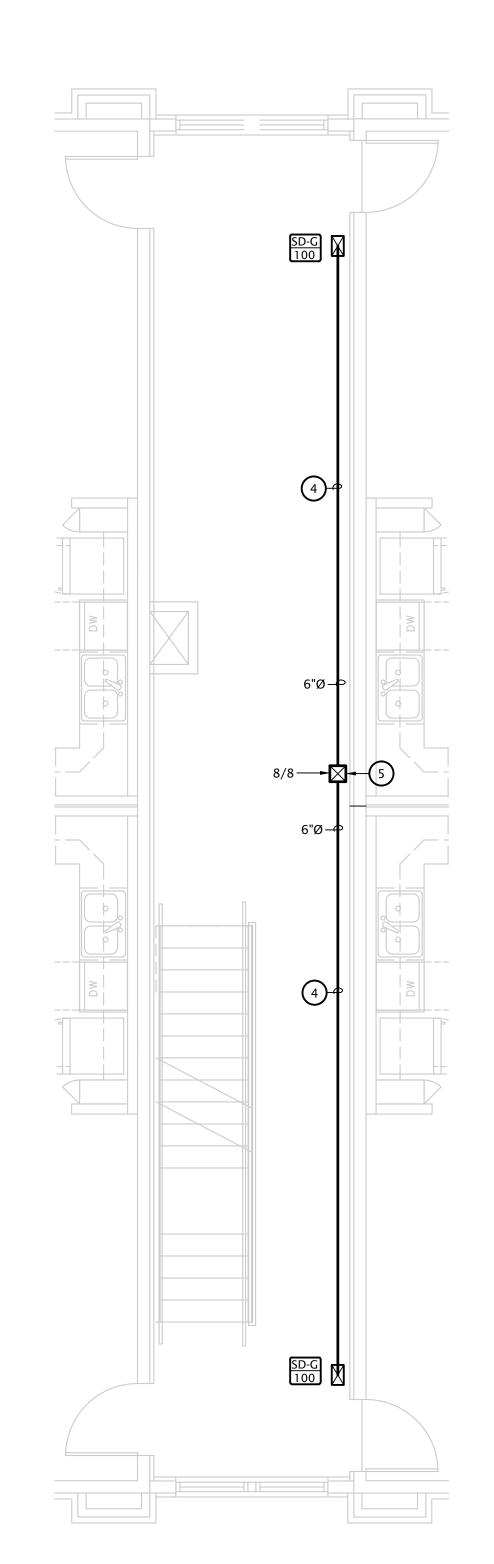
  10. PROVIDE JUNCTION BOX WITH COVERPLATE IN BASE CABINET FOR FUTURE ISLAND RECEPTACLE PER NEC 210.52(C)(2).

## # MECHANICAL PLAN NOTES BY SYMBOL

- 1. ROUTE 6"Ø OUTDOOR AIR INTAKE DUCTWORK TO WALL CAP WITH BIRDSCREEN. 2. CONNECT OUTDOOR AIR DUCTWORK TO RETURN DUCT AND BALANCE TO 85 CFM. SEE DETAIL 2:M6.1 FOR MORE INFORMATION.
- 3. PROVIDE FIRE DAMPER WHERE DUCT PENETRATES RATED FLOOR ASSEMBLY.
- 4. ROUTE DUCTWORK IN SOFFIT, COORDINATE WITH ARCHITECT.
- 5. ROUTE DUCTWORK IN CHASE, COORDINATE WITH ARCHITECT.



BUILDING B - 1ST FLOOR ENLARGED BREEZEWAY HVAC PLAN 1/4" = 1'-0"



BUILDING B - 3RD FLOOR ENLARGED
BREEZEWAY HVAC PLAN

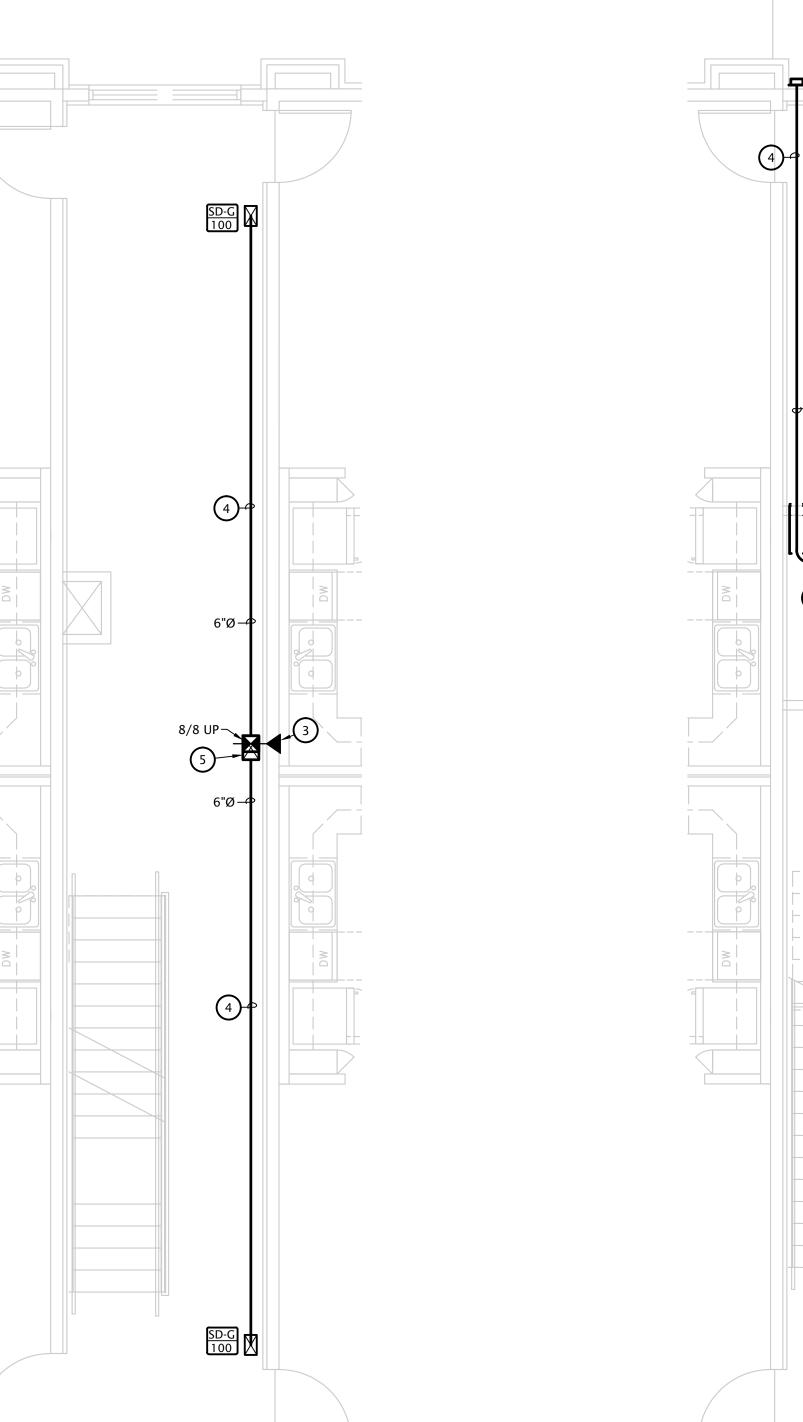
1/4" = 1'-0"



ASI #7 - 4-18-2025

7-17-2024

22-3262 **ME1.5** 



LST Consulting Engineers, PA
MANHATTAN

4809 Vue Du Lac Place, Suite 201
Manhattan, KS 66503
785.587.8042

MANHATTAN

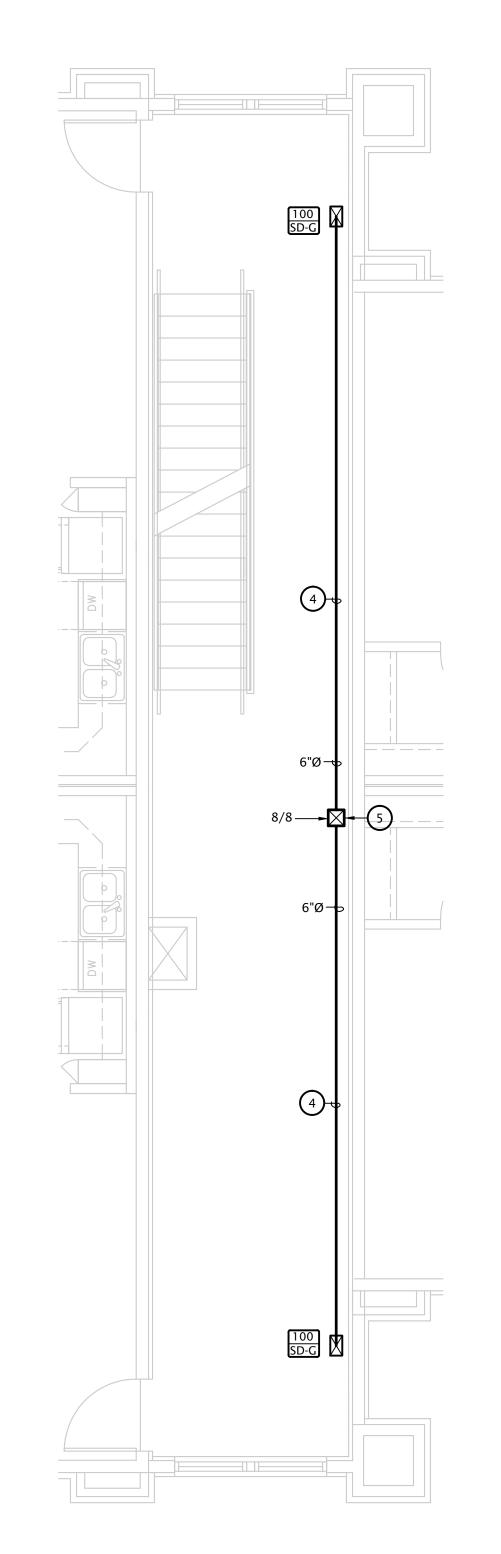
125 S. Washington, Suite 150
Wichita, Kansas 67202
316.285.0696

# # MECHANICAL PLAN NOTES BY SYMBOL

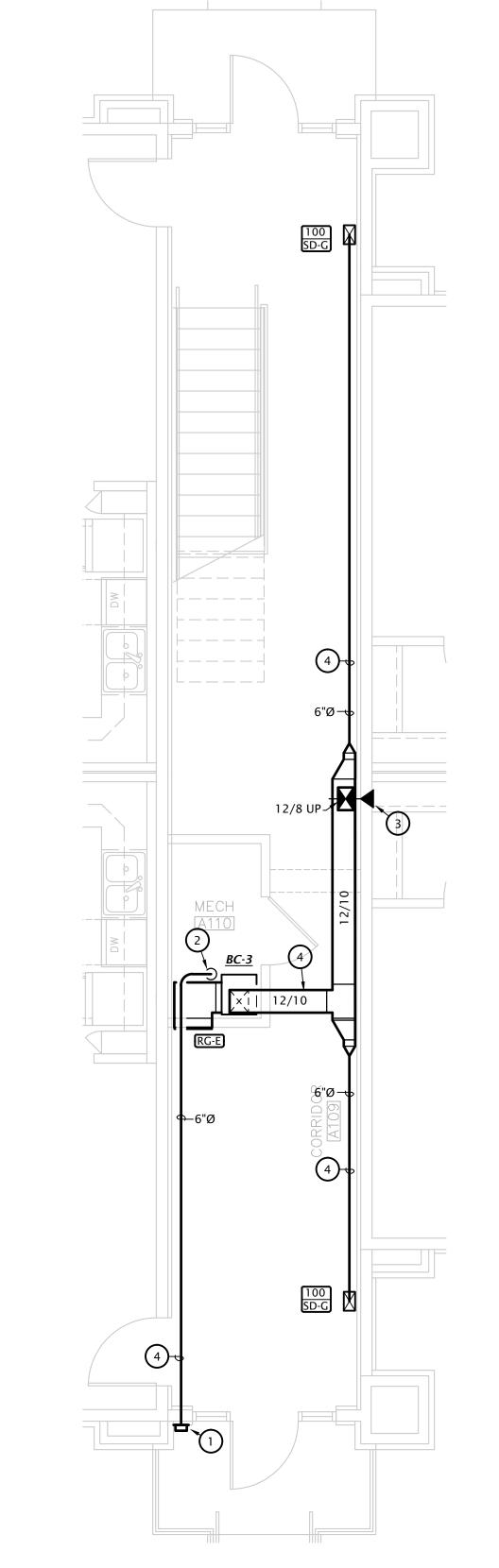
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- 3. PROVIDE FIRE DAMPER WHERE DUCT PENETRATES RATED FLOOR ASSEMBLY.
- 4. ROUTE DUCTWORK IN SOFFIT, COORDINATE WITH ARCHITECT.

5. ROUTE DUCTWORK IN CHASE, COORDINATE WITH ARCHITECT.







BUILDING A - 1ST FLOOR ENLARGED BREEZEWAY HVAC PLAN

ASI #7 - 4-18-2025

7-17-2024 22-3262

**ME1.6** 

July 2023

7-17-2024 22-3262

9-27-2024

SHEET NO .:

M4.1

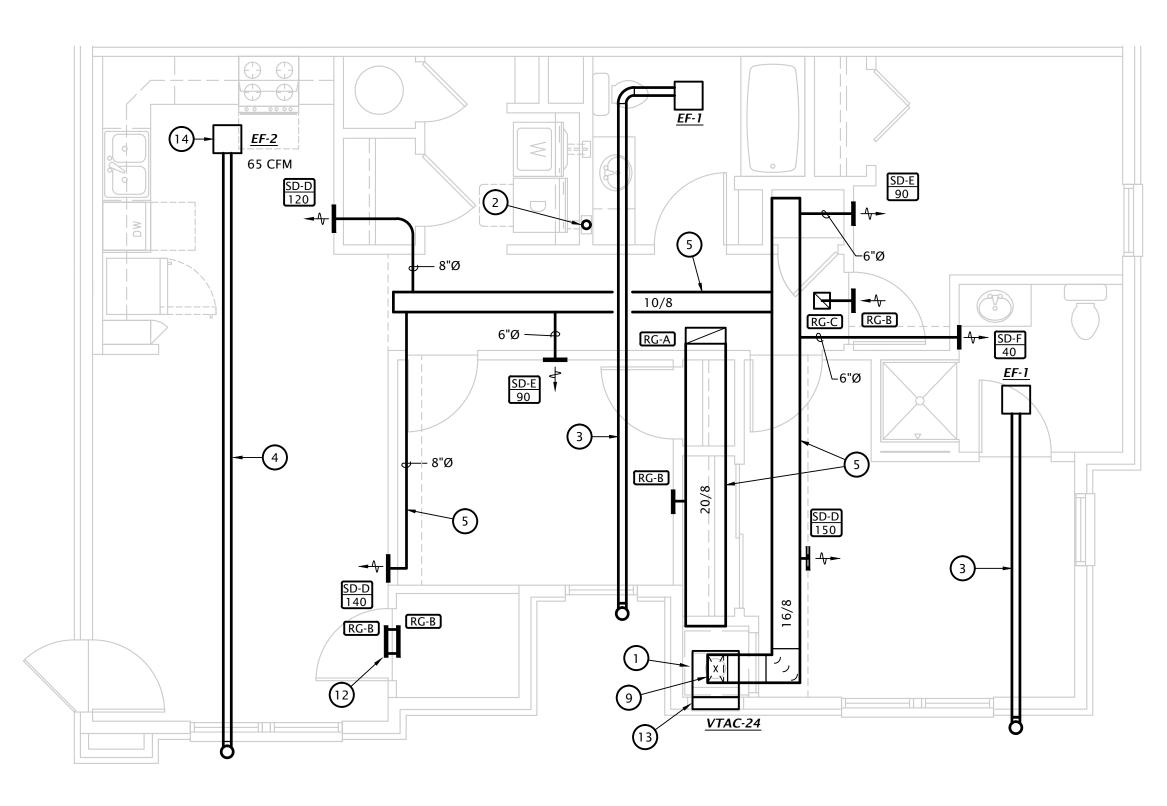
1 2 BEDROOM ENLARGED FLOOR PLAN - 3RD FLOOR

14/8

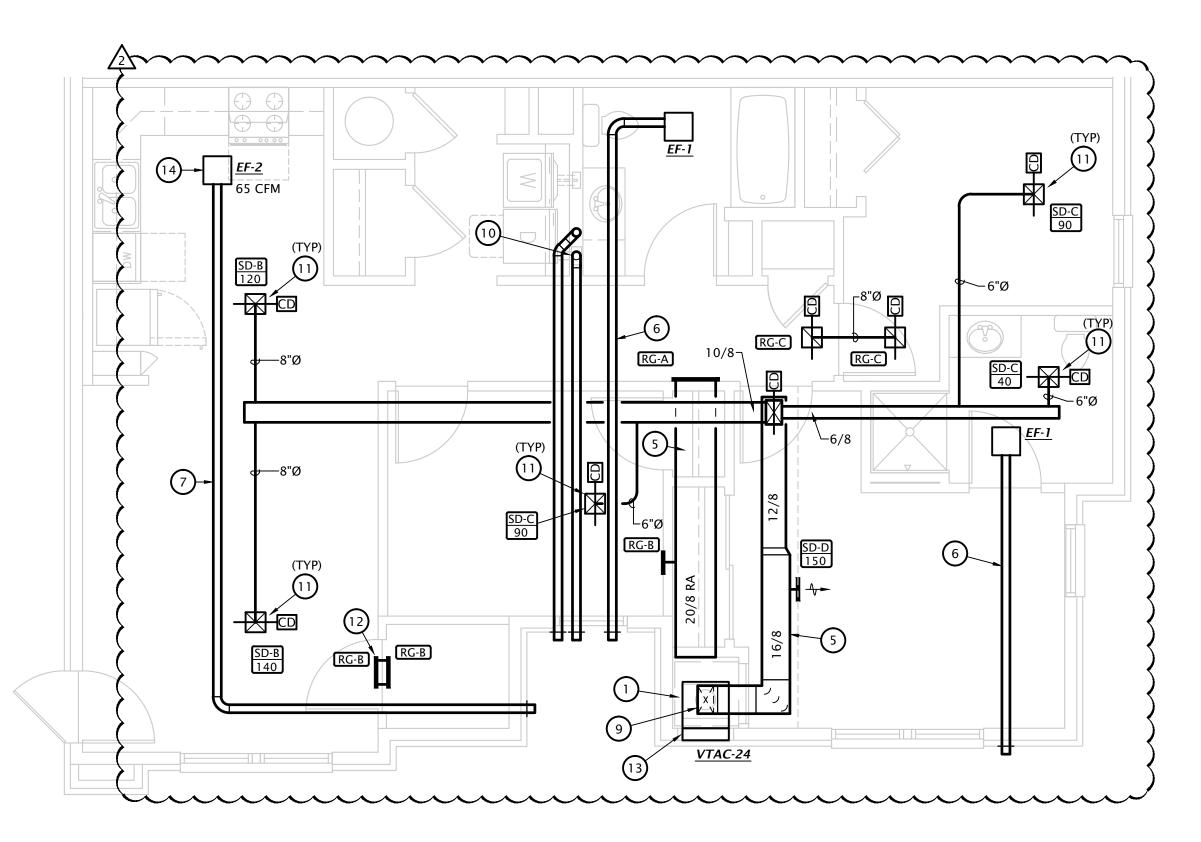
12/8

12/8

3 2 BEDROOM ENLARGED FLOOR PLAN - 1ST & 2ND FLOORS



2 3 BEDROOM ENLARGED FLOOR PLAN - 3RD FLOOR



3 BEDROOM ENLARGED FLOOR PLAN - 1ST & 2ND FLOORS

1/4" = 1'-0"

## **#** MECHANICAL NOTES BY SYMBOL

NOTES SHOWN ARE TYPICAL FOR ALL APARTMENTS WHERE APPLICABLE.

4809 Vue Du Lac Place, Suite 201 125 S. Washington, Suite 150 Wichita, Kansas 67202

mail@LSTengineers.com

785.587.8042

- 1. ROUTE 3/4" CONDENSATE DRAIN FROM VTAC TO ABOVE FLOOR DRAIN.
- 2. PROVIDE UL LISTED DRYER BOX EQUAL TO IN-O-VATE TECHNOLOGIES IN WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ROUTE 4"Ø DRYER EXHAUST DUCT BELOW FLOOR TO WALL CAP WITH BACKDRAFT DAMPER. MANUFACTURER'S MAXIMUM ALLOWABLE DUCT LENGTH = 45' WITH TWO 90° ELBOW. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC 504.

NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING

- 3. ROUTE 4"Ø EXHAUST DUCT TO SOFFIT VENT EQUAL TO PANASONIC EZSOFFIT VENT.
- 4. ROUTE 6"Ø EXHAUST DUCT FROM EXHAUST FAN TO SOFFIT VENT EQUAL TO PANASONIC EZSOFFIT VENT. TRANSITION TO CONNECTIONS AT SOFFIT
- ROUTE SUPPLY AND RETURN DUCTWORK IN SOFFITS OR DROPPED CEILING AREAS. SUPPLY AND RETURN DUCTWORK SHALL BE ROUTED BELOW DRYWALL AT BOTTOM OF RATED CEILING ASSEMBLY WITHIN BUILDING AIR BARRIER AND THERMAL ENVELOPE. COORDINATE EXACT SOFFIT LOCATION WITH ARCHITECT AND G.C.
- 6. ROUTE 4"Ø EXHAUST DUCT TO WALL CAP WITH BIRD SCREEN AND BACKDRAFT DAMPER.
- 7. ROUTE 6"Ø EXHAUST DUCT TO WALL CAP WITH BIRD SCREEN AND BACKDRAFT DAMPER.
- 8. TRANSITION FROM CONNECTION AT VTAC TO 12/12 SUPPLY DUCT.
- 9. TRANSITION FROM CONNECTION AT VTAC TO SUPPLY DUCT.
- 10. PROVIDE UL LISTED DRYER BOX EQUAL TO IN-O-VATE TECHNOLOGIES IN WALL INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ROUTE 4"Ø DRYER EXHAUST DUCT TO WALL CAP WITH BACKDRAFT DAMPER. MANUFACTURER'S MAXIMUM ALLOWABLE DUCT LENGTH = 45' WITH TWO 90° ELBOW. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED. PROVIDE PERMANENT LABEL IDENTIFYING EQUIVALENT LENGTH OF DRYER DUCT INSTALLED PER IMC

NOTE: ANNULAR SPACE AROUND DUCT IS TO BE SEALED AT ALL PENETRATIONS OF FLOORS AND CEILINGS WITH U.L. LISTED FIRE STOPPING

- 11. PROVIDE U.L. LISTED RADIATION DAMPER AT ALL MEMBRANE PENETRATIONS OF FLOOR CEILING ASSEMBLY. REFERENCE DETAIL 3 SHEET M6.1 FOR MORE INFORMATION. 12. MOUNT RETURN GRILLES ON BOTH SIDES OF WALL. CENTER RETURN
- GRILLE BETWEEN CEILING AND TOP OF DOOR. PROVIDE TRANSFER DUCT 13. ENSURE VTAC, WALL SLEEVE, AND LOUVER ARE SEALED TO MAINTAIN
- INTEGRITY OF AIR BARRIER. 14. TWO SPEED KITCHEN EXHAUST FAN UTILIZED AS VENTILATION FAN PER REQUIREMENTS OF IMC AND ENERGY STAR. FAN SHALL OPERATE CONTINUOUSLY AT AIRFLOW INDICATED ON PLANS. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE OVERRIDE SWITCH TO ALLOW OCCUPANT TO INCREASE FAN AIRFLOW TO 100 CFM FOR INTERMITTENT

- ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE SEALED TO MAINTAIN INTEGRITY OF AIR BARRIER. COORDINATE WITH G.C.
- ALL DUCTWORK SHALL BE SEALED PER ENERGY STAR REQUIREMENTS. COORDINATE REQUIREMENTS WITH ENERGY
- DUCTWORK AT SUPPLY, RETURN, AND TRANSFER AIR REGISTERS SHALL BE SEALED TO FLOOR, WALL, OR CEILING USING HVAC

DESCRIPTION

Steel square louvered 4-way

suppply register

Steel square louvered 4-way

suppply register

Steel square louvered 4-way

suppply register

Steel wall mounted louvered 2-way

Steel wall mounted louvered 2-way

— 3/4" TO FLOOR DRAIN

— 1-1/4" ANGLE IRON FRAME FOR

BOTTOM RETURN

supply register

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NOTES

MARK MANUFATURER		ACKAGED TE			COOLIN	IG		H	IEATING				FAN		MINI CKT	MAX.	ELECTRICAL	
	MODEL NUMBER	OA DB	ENT DB/WB	SENSIBLE COOLING	TOTAL COOLING	SEER2	TOTAL HEATING	HSPF2	ELECTRIC HEAT OUTPUT	AIRFLOW	AIRFLOW ESP	SPEED	OA CFM	MIN. CKT. AMPS	OCPD	CHARACTERISTICS	NOTES	
VTAC-18	FREIDRICH	VHA18K-75RTQ	85	75/63	12,945	17,980	11.9	16,000	6.3	6.1kW	550	0.3"	HIGH	0	41.8	45	208V-1PH	1,2,3,4,5
VTAC-24	FREIDRICH	VHA24K-75RTQ	85	75/63	14,980	21,400	11.9	18,500	6.3	6.1kW	600	0.3"	HIGH	0	41.8	45	208V-1PH	1,2,3,4,5

- . PROVIDE WITH ACCESS PANEL WITH RETURN AIR GRILLE. PROVIDE FILTER BRACKET AT UNIT WITH MIN. MERV 6 FILTER.
- . PROVIDE WITH ACCESSORY DRAIN PAN.
- 3. PROVIDE WITH WALL PLENUM AND ACCESSORY ARCHITECTURAL LOUVER IN COLOR AS SELECTED BY ARCHITECT
- 4. PROVIDE WITH WIRED PROGRAMMABLE THERMOSTAT.

- TO WALL CAP SEE

PLANS FOR SIZE

AND ROUTING

– R.A. DUCT SEE PLANS FOR SIZE

AND ROUTING

DAMPER (TYP.)

FLEXIBLE DUCT CONN. (TYP.)

→ 90 DEGREE ELBOW WITH TURNING VANES

FILTER WITH PIANO

HINGE AND LATCH

- 3/4" TO FLOOR DRAIN

─MANUAL BALANCING

— O.A. DUCT

- 5. MOUNT ON 24" TALL METAL PLATFORM COORDINATE MOUNTING HEIGHT OF UNIT AND EXTERIOR LOUVER WITH G.C.
- 6. PERMANENTLY SEAL FRESH AIR OPENING IN VTAC UNIT. OUTSIDE AIR IS PROVIDED TO SPACE VIA 'EF-2'.

EXHAUST FAN SCHEDULE											
MARK	MANUFACTURER	MODEL	CFM	ESP (" wg)	POWER	VOLTS/ PHASE	NOTES				
EF-1	PANASONIC	FV-0810VSS1	50	0.45"	21 W	120 / 1	1,2,3,4,5,6				
EF-2	PANASONIC	FV-0511VK2	110	0.45"	21 W	120 / 1	1,2,3,4,5,6,7				
NOTEC.											

- 1. Fixture shall be Energy Star listed.
- 2. Fixture shall operate at <1 SONE
- 3. Provide with ec motor with integral disconnect.

6. Provide with manufacturer's ceiling radiation damper. Omit radiation dampers where root present, coordinate with Arch.
7. Provide Panasonic FV-VS15VK1 multi-speed with time delay module set to provide cfm drawings continuously with a max of 110 cfm for 15min (adj) when wall switch is turned or

Steel Duct Ceiling Radiation Damper 16 ga. x 1 1/2 in. Steel Channels (with 9/16 in. Must Be Vertical (NOT SPLAYED)!  Non-Metallic Device (Inlet or Outlet) Device (Inlet or Outlet)	
CEILING RADIATION DAMPER DETAIL	
NO SCALE	

**BLOWER** 

SEE NOTE 11 SHEET M4.1 FOR MORE INFORMATION

ELECTRIC HEATER SCHEDULE										
MARK	MANUF.	MODEL	MOUNTING	WATTS VOLTAGE/PHASE DESCRIPTION						
EWH	TRANE	UHAA	WALL	3,000	208/1	Architectural fan forced wall heater	1,2,3			
EH-1	BERKO	RUX30081 2	WALL	3,000	208/1	Explosion proof heater	1,2,3,4			

### NOTES:

- 1. Provide with integral thermostat, high temp. thermal cutout and fan delay.
- 2. Provide with unit mounted disconnect switch.
- 3. Provide with surface mounting frame.

HEAT PUMP SCHEDULE															
MARK	MANUF.	MODEL	NOMINAL TONS	COOLING CAPACITY					HEATING CAPACITY			MIN	ELECTRICAL		
				OA DB	ENT AIR DB/WB	SENS MBH	ТОТ МВН	MIN SEER	OA DB	ENT AIR DB	TOT MBH	HSPF	MCA	МОСР	V/PH
HP-1	TRANE	4TWR4030H1	2.5	85	75/63	20.9	28.4	16	47	70	28.4	9.75	15	25	208/1
HP-2,3,4,5	TRANE	4TWR4018HN1	1.5	85	75/63	14.2	21.8	16	47	70	19.0	9.75	15	25	208/1
	accumulator	nes shall be field s, etc. as required		Coordinate li	ne sizing rec	quirements wi	th equipmen	t manufactur	er for lengt	th of run for	r each ap	artment. F	Provide suc	ction	

- 3. Provide with R410a refrigerant.
- 4. Provide 2 sets of MERV-7 filters.

	BLOWE	R COIL	. SCHEDUL	<i>E</i>			1	Γ			I
	MARK	MANUF.	MODEL		FAN		HEATING	V/Ph	MOTOR	MCA	МОСР
		MANOI.	MODEL	CFM	ESP	SPEED	KW	<b>V</b> /111	FLA	MCA	
	BC-1	TRANE	TEM6A0B30H21	1000	0.7	HIGH	7.2/3.6	208/1	4.3	49/22	50/25
2	BC-2,3,4,5	TRANE	TEM6A0B24H21	600	0.7	LOW	5.8	208/1	2.5	38	40
	Notes:		connection required								

- 1. Single point connection required, coordinate the exact electrical requirements of equipment provided with E.C.
- 2. Electric heater shall not operate simultaneously with heat pump. Electric heater shall be used as back-up heat only.
- 3. Provide with integral factory installed disconnect swtich.

## **BLOWER COIL DETAIL**

MECHANICAL SYMBOLS

SQUARE SUPPLY DIFFUSER -TYPE AND AIRFLOW INDICATED

MANUAL BALANCING DAMPER

FLEXIBLE DUCTWORK - MAX. 5'

RECTANGULAR SUPPLY AIR DUCT UP

RECTANGULAR SUPPLY AIR DUCT DOWN

DIFFUSER DESIGNATION AIRFLOW INDICATED

WALL DIFFUSER

ROUND DUCT UP

PIPE TURNING UP

---- RL ---- | REFRIGERANT LIQUID

PIPE TURNING DOWN

CEILING RADIATION DAMPER

EQUIPMENT MANUFACTURER

CONTROL CABLE, VERIFY TYPE WITH

SQUARE RETURN GRILLE - TYPE INDICATED

RECTANGULAR RETURN OR RELIEF AIR DUCT UP

RECTANGULAR RETURN OR EXHAUST AIR DUCT DOWN

THERMOSTAT

\_\_\_\_

 $\Box$   $\rightarrow$ 

NO SCALE

SUPPLY AIR DUCT SEE PLANS FOR SIZE

AND ROUTING -

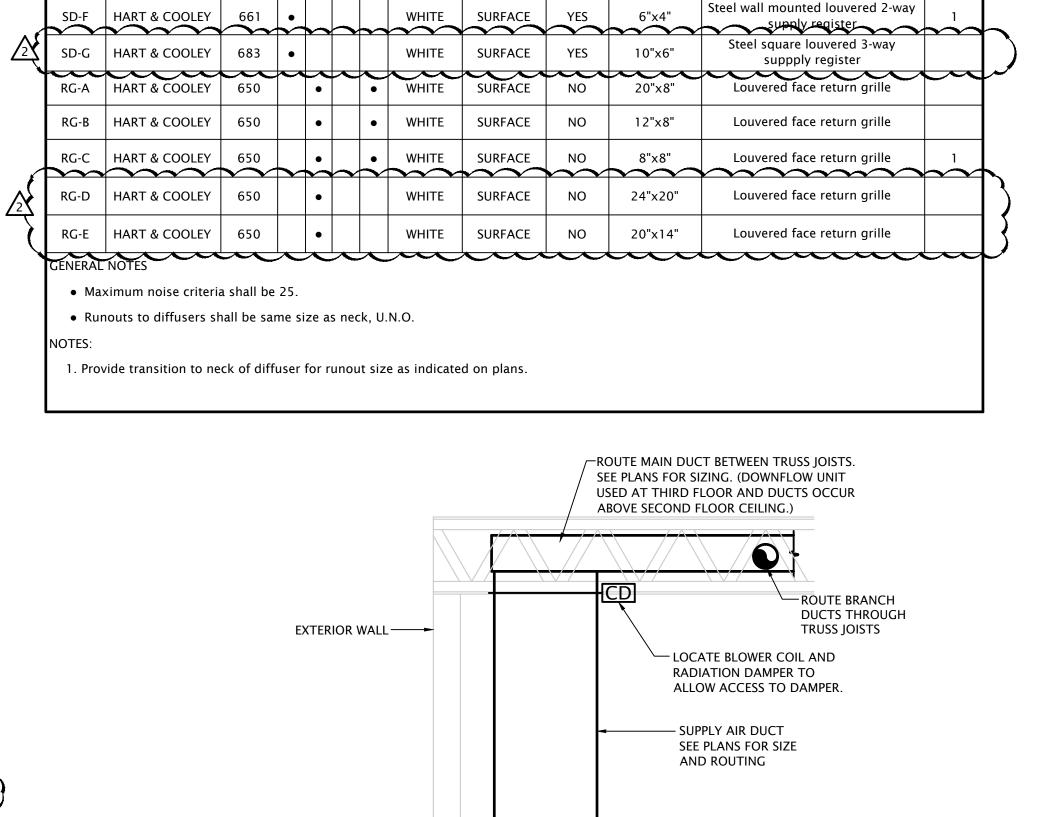
SET BLOWER COIL ON

RUBBER VIBRATION

ISOLATION PAD ----

1-1/4" ANGLE IRON

FRAME WHEN REQ'D. FOR BOTTOM RETURN -



VTAC

FINISH | MOUNTING | DAMPER | FACE SIZE

YES

SURFACE

SURFACE

SURFACE

SURFACE

SURFACE

WHITE

12"x12"

8"x8"

12"x6"

12"x4"

TYPICAL VTAC COIL DETAIL

SET VTAC COIL ON RUBBER

VIBRATION ISOLATION PAD —

RETURN AIR FILTER —

MANUFACTURERS

WALL LOUVER ——

AIR DEVICE SCHEDULE

MARK | MANUFATURER | MODEL |

SD-A HART & COOLEY 684

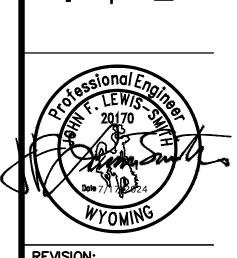
SD-B | HART & COOLEY | 684

SD-D | HART & COOLEY | 661

SD-E HART & COOLEY

HART & COOLEY | 684

APPLICATION



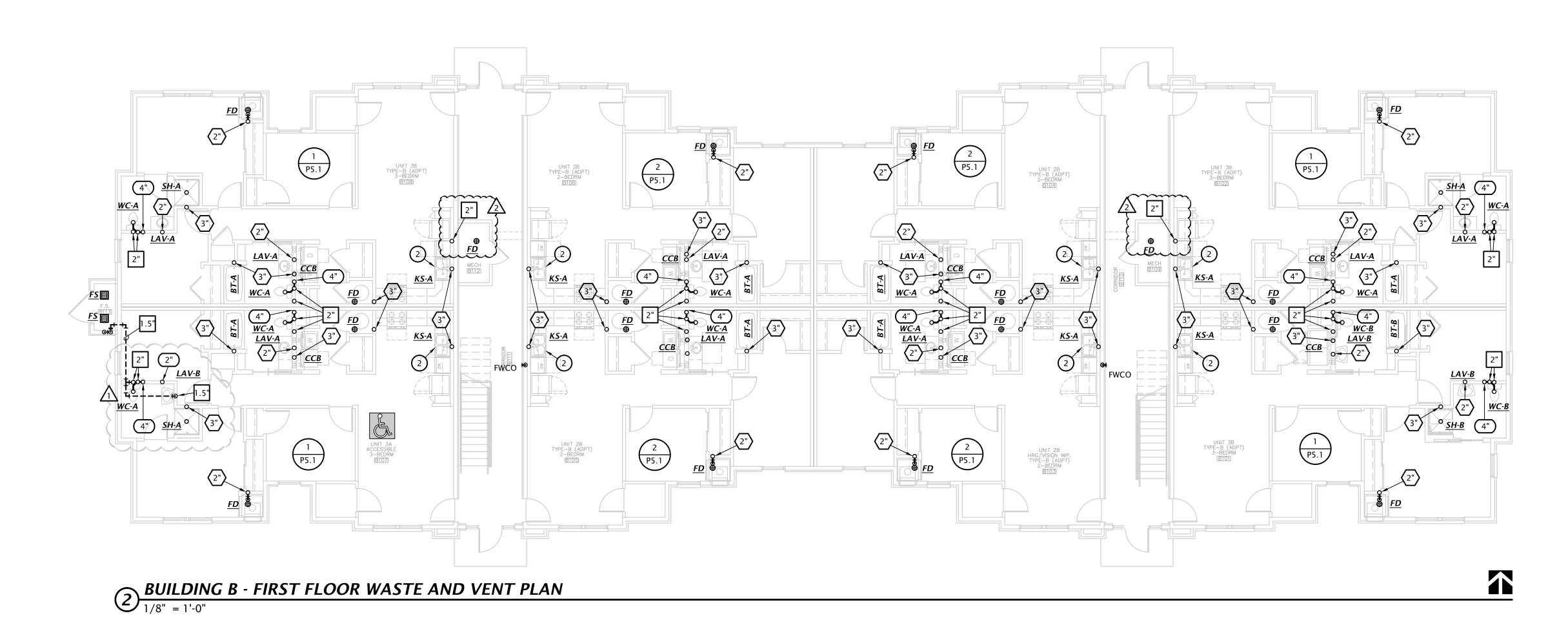
**REVISION:** 9-27-2024

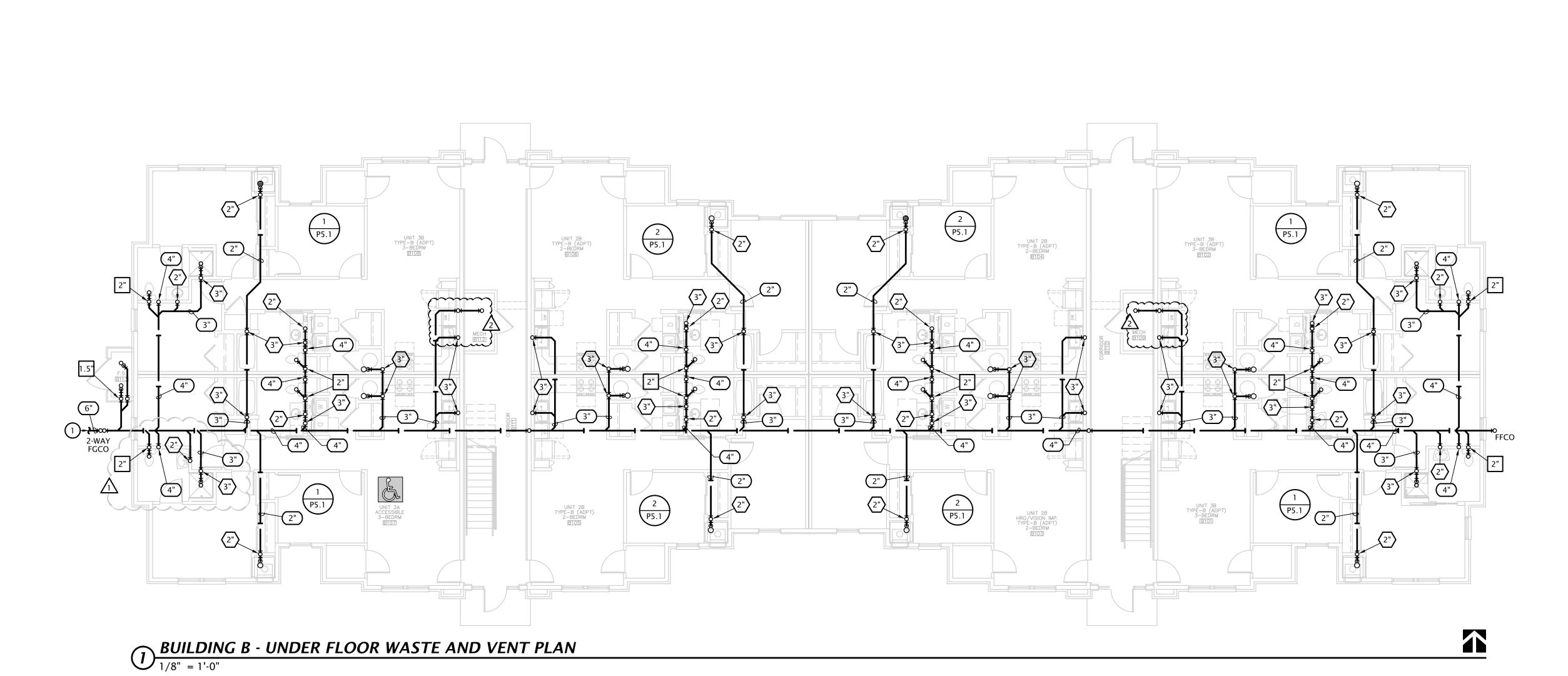
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ASI #7 - 4-18-2025

SHEET NO .:

M6.1







X"	DRAIN (X = SIZE)
Χ"	VENT (X = SIZE)
X">	WASTE STACK VENT (X = SIZE)
	_

### **W&V PLAN GENERAL NOTES**

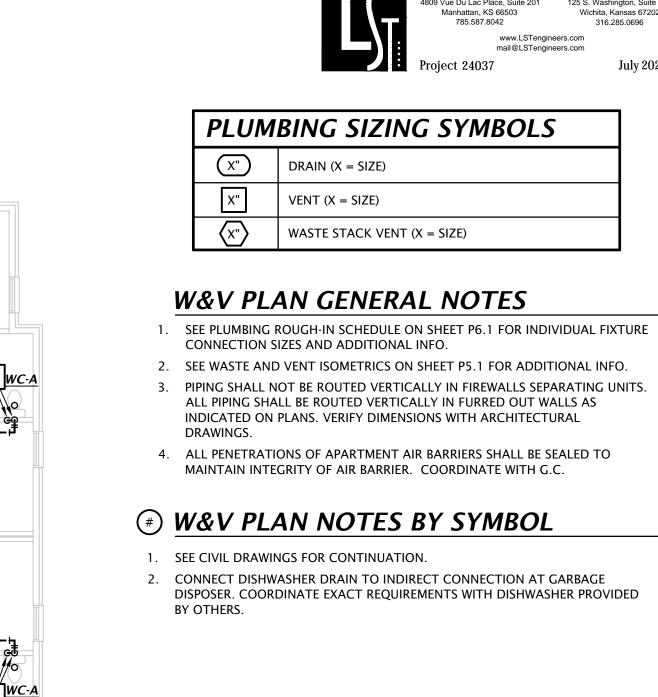
- 1. SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFO.
- 2. SEE WASTE AND VENT ISOMETRICS ON SHEET P5.1 FOR ADDITIONAL INFO. 3. PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS. ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS
- 4. ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE SEALED TO MAINTAIN INTEGRITY OF AIR BARRIER. COORDINATE WITH G.C.

INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARCHITECTURAL

## **# W&V PLAN NOTES BY SYMBOL**

- 1. SEE CIVIL DRAWINGS FOR CONTINUATION.
- 2. CONNECT DISHWASHER DRAIN TO INDIRECT CONNECTION AT GARBAGE DISPOSER. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED BY OTHERS.

P1.2



**BUILDING B - THIRD FLOOR WASTE AND VENT PLAN**1/8" = 1'-0"





## PLUMBING SIZING SYMBOLS DRAIN (X = SIZE)VENT (X = SIZE)

WASTE STACK VENT (X = SIZE)

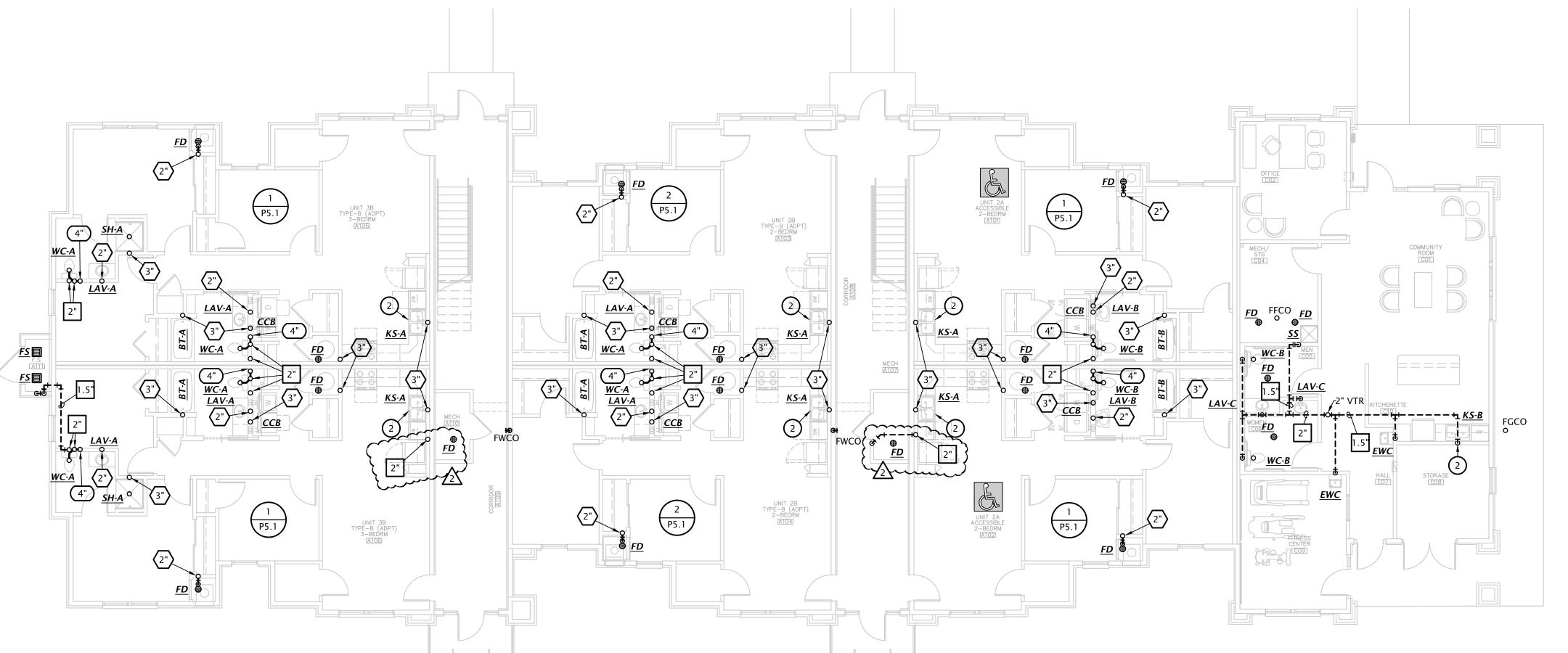
### **W&V PLAN GENERAL NOTES**

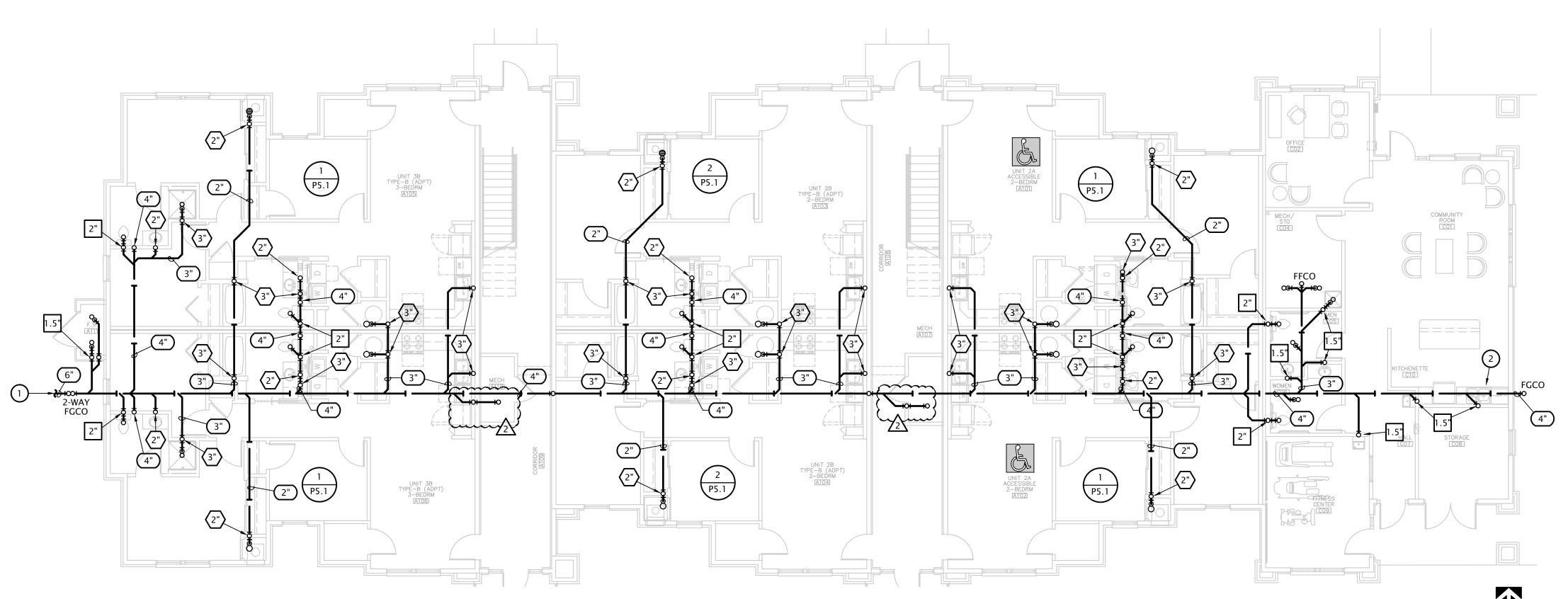
- 1. SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFO.
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- 4. ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE SEALED TO MAINTAIN INTEGRITY OF AIR BARRIER. COORDINATE WITH G.C.

INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARCHITECTURAL

## **# W&V PLAN NOTES BY SYMBOL**

- 1. SEE CIVIL DRAWINGS FOR CONTINUATION.
- 2. CONNECT DISHWASHER DRAIN TO INDIRECT CONNECTION AT GARBAGE DISPOSER. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED BY OTHERS.

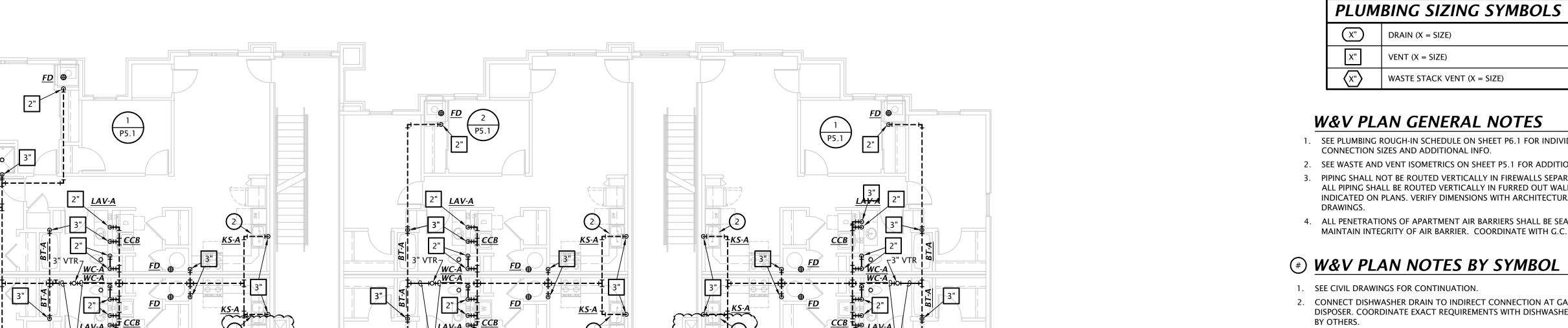




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BUILDING A - FIRST FLOOR WASTE AND VENT PLAN

1/8" = 1'-0"



**BUILDING A - THIRD FLOOR WASTE AND VENT PLAN**1/8" = 1'-0"

BUILDING A - SECOND FLOOR WASTE AND VENT PLAN

1/8" = 1'-0"

DRAIN (X = SIZE)

VENT (X = SIZE)WASTE STACK VENT (X = SIZE)

### **W&V PLAN GENERAL NOTES**

- 1. SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFO.
- 2. SEE WASTE AND VENT ISOMETRICS ON SHEET P5.1 FOR ADDITIONAL INFO. 3. PIPING SHALL NOT BE ROUTED VERTICALLY IN FIREWALLS SEPARATING UNITS.
- ALL PIPING SHALL BE ROUTED VERTICALLY IN FURRED OUT WALLS AS INDICATED ON PLANS. VERIFY DIMENSIONS WITH ARCHITECTURAL
- 4. ALL PENETRATIONS OF APARTMENT AIR BARRIERS SHALL BE SEALED TO MAINTAIN INTEGRITY OF AIR BARRIER. COORDINATE WITH G.C.

## **# W&V PLAN NOTES BY SYMBOL**

- 1. SEE CIVIL DRAWINGS FOR CONTINUATION.
- 2. CONNECT DISHWASHER DRAIN TO INDIRECT CONNECTION AT GARBAGE DISPOSER. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER PROVIDED

**PLUMBING PLAN NOTES BY SYMBOL** 

2. PROVIDE 1-1/4" WATER SERVICE TO APARTMENT WITH SHUT-OFF VALVE. SEE

4. PROVIDE 1/2" VALVED BRANCH BELOW SINK AND CONNECT DISHWASHER.

ROUTE PIPING ALONG BACK OF CABINETRY, COORDINATE EXACT ROUTING WITH G.C. COORDINATE EXACT REQUIREMENTS WITH DISHWASHER

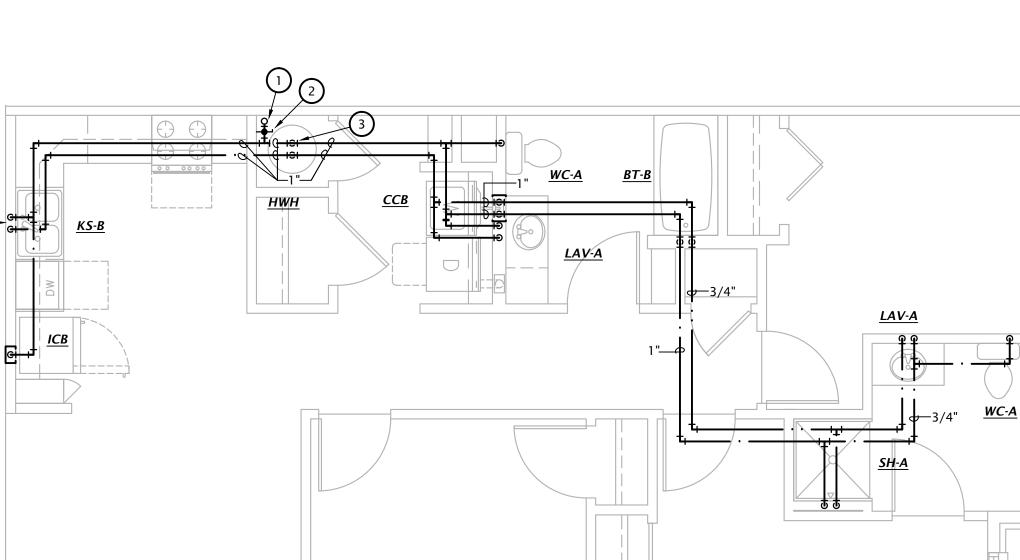
1. SEE OVERALL DOMESTIC WATER PLANS FOR CONTINUATION.

DOMESTIC RISER DIAGRAMS ON SHEET P5.2 FOR ADDITIONAL INFORMATION.

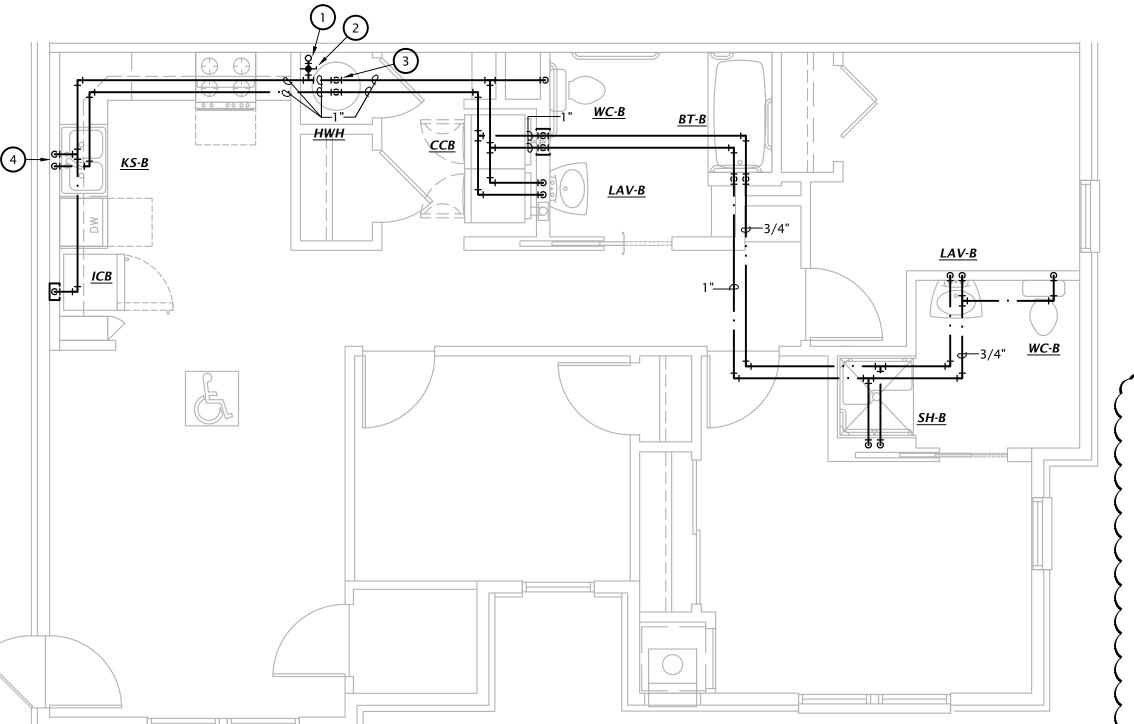
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7-17-2024 SHEET NO.:

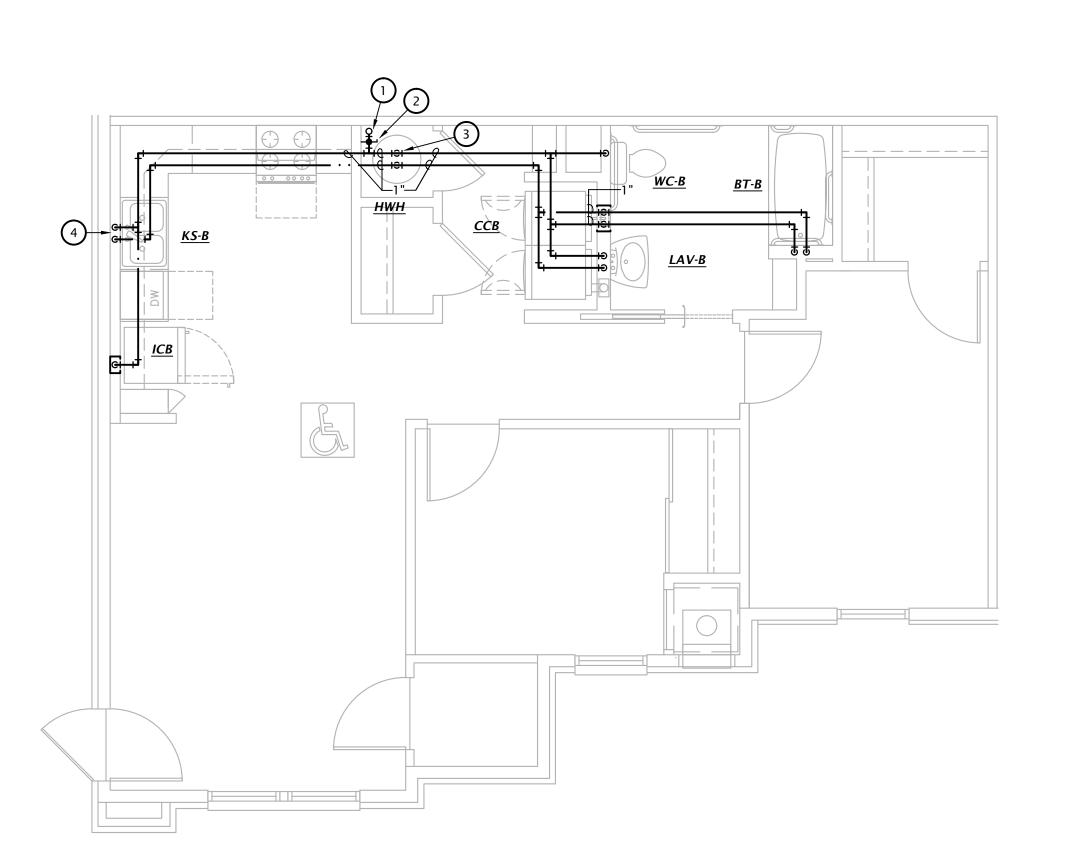
P4.1



# 2 3 BEDROOM ENLARGED FLOOR PLAN 1/4" = 1'-0"







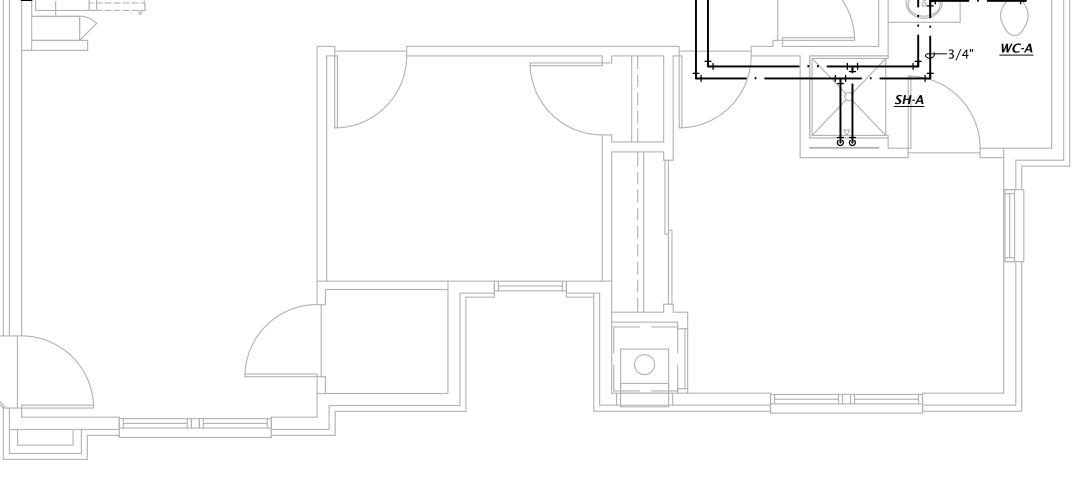
1 2 BEDROOM ENLARGED FLOOR PLAN

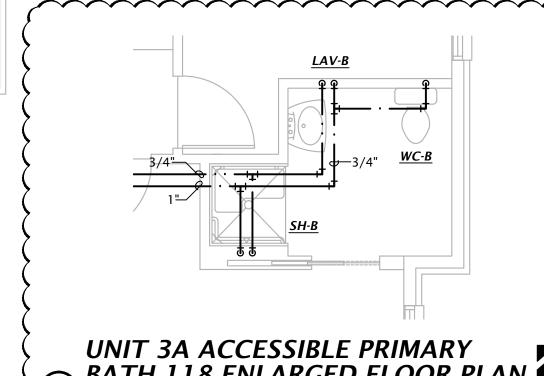
3 <u>2 BEDROOM ACCESSIBLE ENLARGED FLOOR PLAN</u>
1/4" = 1'-0"

 $\Lambda$ 

3 BEDROOM ACCESSIBLE ENLARGED FLOOR PLAN

1/4" = 1'-0"





UNIT 3A ACCESSIBLE PRIMARY
BATH 118 ENLARGED FLOOR PLAN

1/4" = 1'-0"

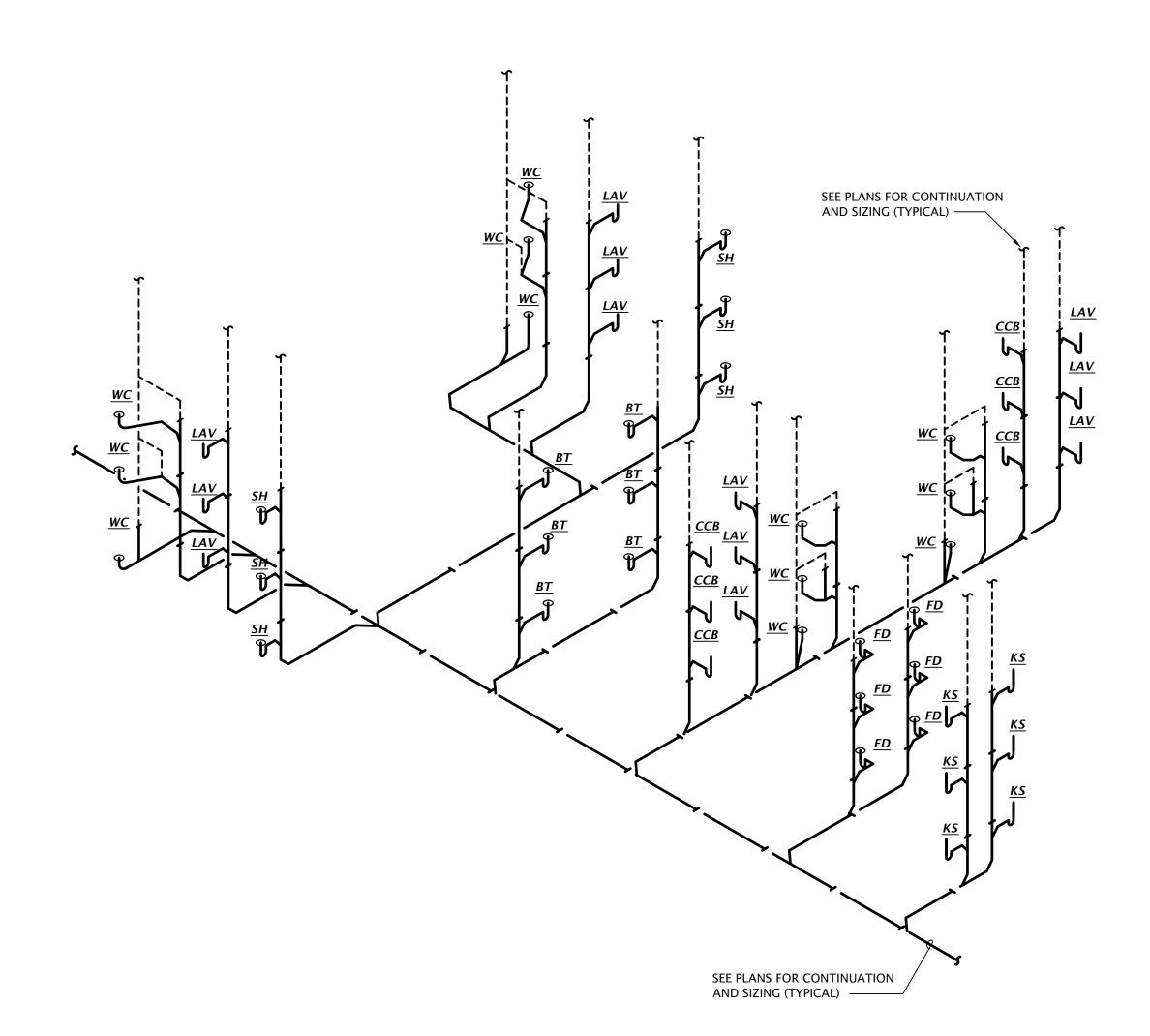
**1** 

22-3262 SHEET NO.:

P5.1

## WATE AND VENT ISOMETIRIC GENERAL NOTES

- 1. SEE PLUMBING ROUGH-IN SCHEDULE ON SHEET P6.1 FOR INDIVIDUAL FIXTURE CONNECTION SIZES AND ADDITIONAL INFO.
- 2. SEE WASTE AND VENT PLANS FOR ADDITIONAL ROUTING AND SIZING INFO.
- 3. PROVIDE CLEANOUT IN THE BASE OF EACH WASTE STACK.
- 4. ISOMETRICS SHOWN ARE TYPICAL AND OTHER APARTMENTS SHALL BE SIMILAR.



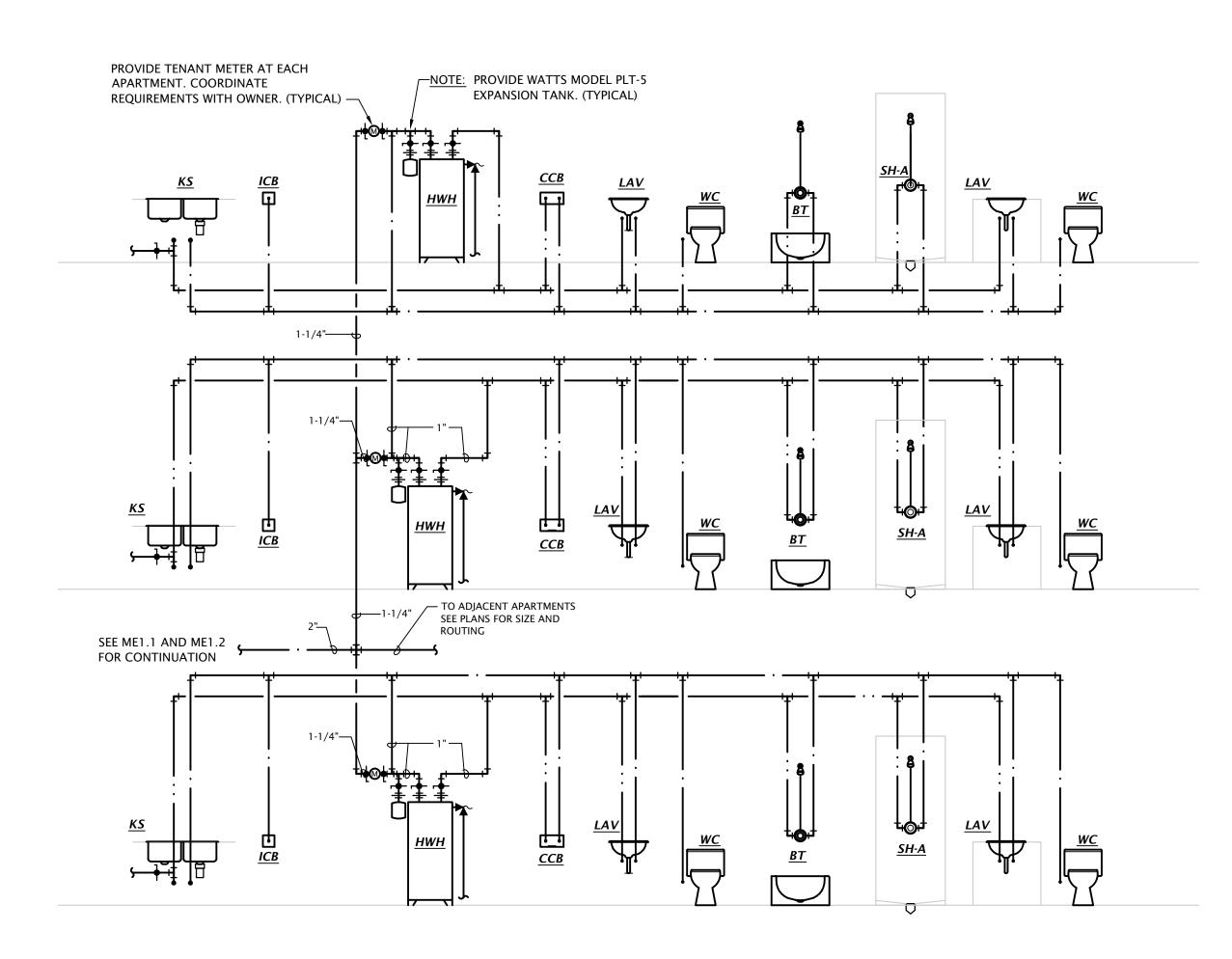
7YPICAL TWO BEDROOM WASTE AND VENT ISOMETRIC
No Scale

SEE PLANS FOR CONTINUATION AND SIZING (TYPICAL)

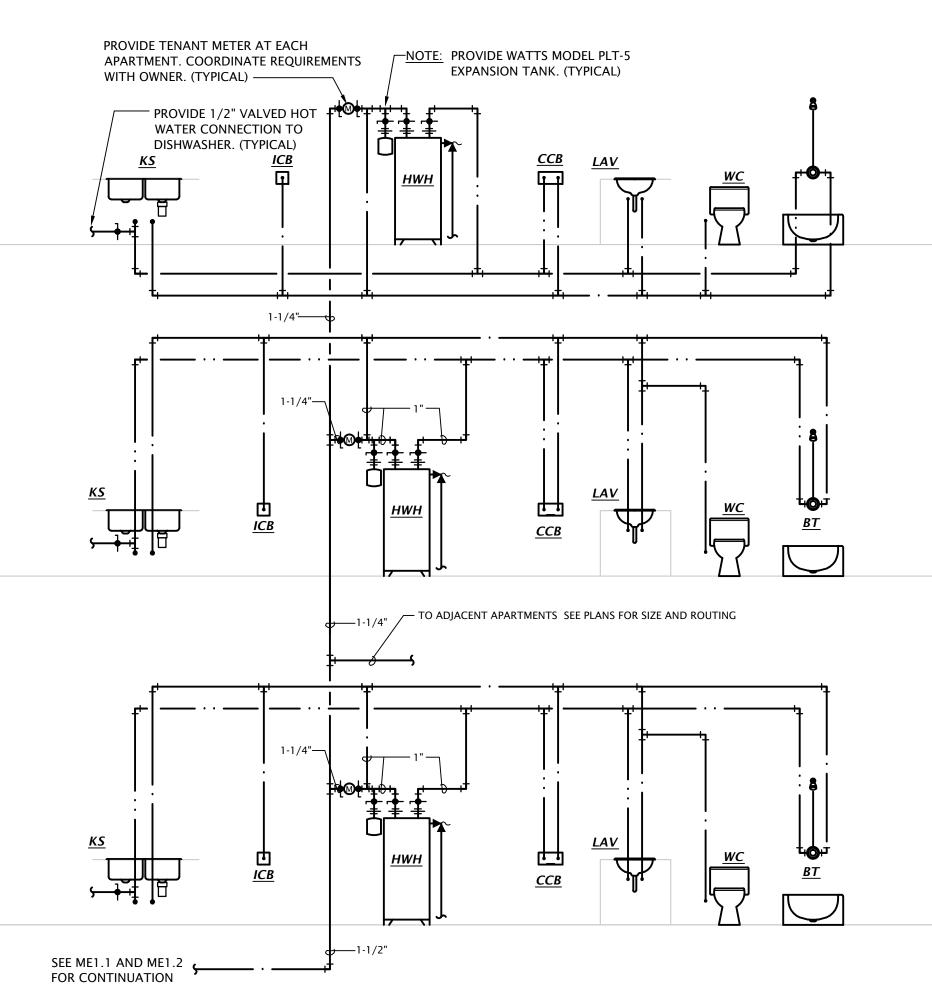
SEE PLANS FOR CONTINUATION AND SIZING (TYPICAL)

onesGillamRenz

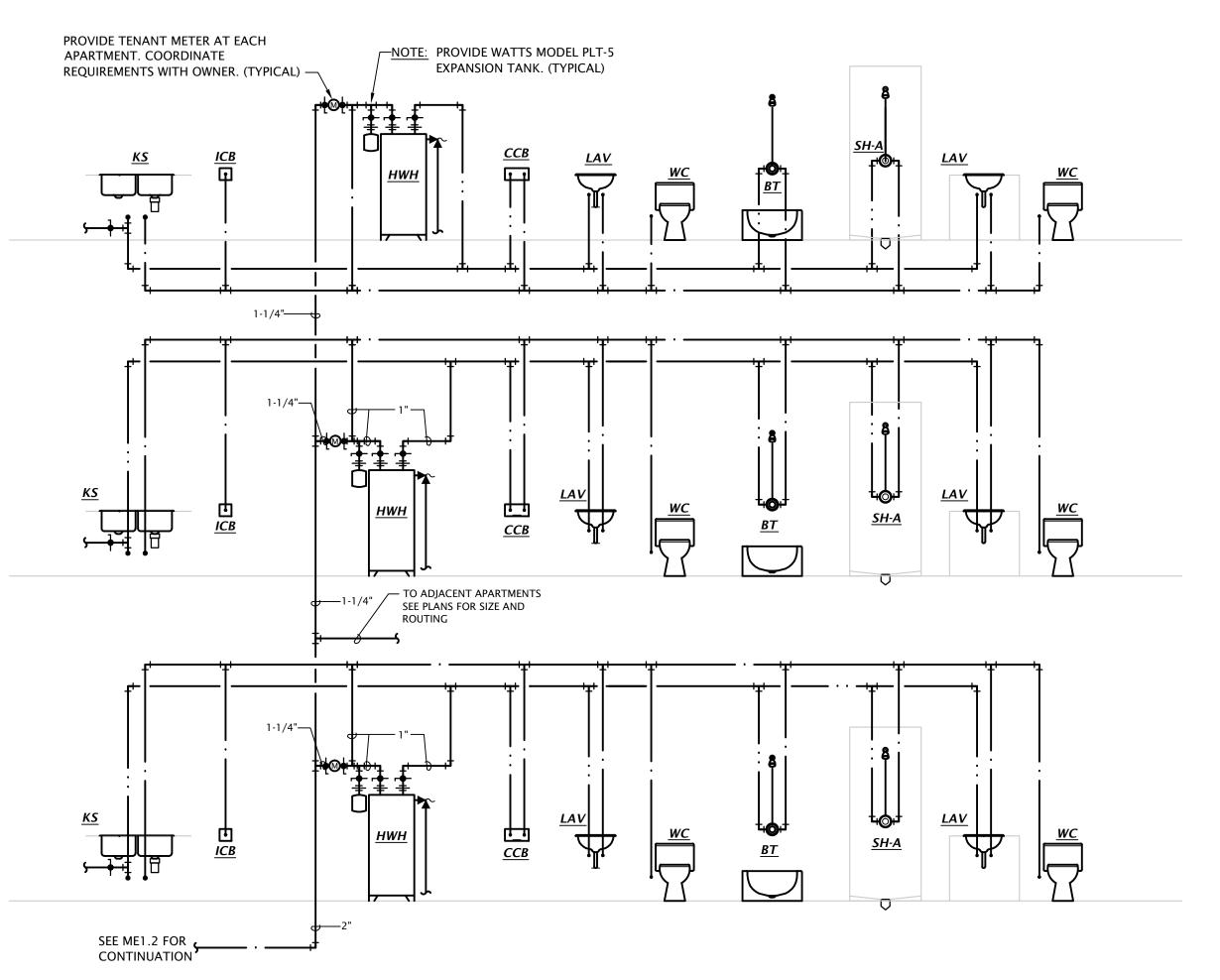




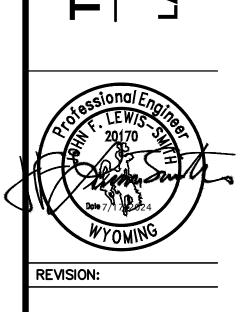
# 3 BEDROOM DOMESTIC WATER RISER DIAGRAM Not to Scale



3 BEDROOM DOMESTIC WATER RISER DIAGRAM
Not to Scale



2 3 BEDROOM DOMESTIC WATER RISER DIAGRAM (BELOW GRADE)
Not to Scale



7-17-2024 22-3262 SHEET NO.:

**P5.2** 

PLUMBING SYMBOLS

PIPE TURNING UP

— · — COLD WATER PIPING

── w ── WATER SERVICE PIPING

 VENT PIPING — G — NATURAL GAS PIPING

> CHECK VALVE **GATE VALVE** BALL VALVE UNION

> > T/P RELIEF VALVE

DOUBLE CHECK BACKFLOW PREVENTOR

REDUCED PRESSURE BACKFLOW PREVENTOR

Ν

— · · — HOT WATER PIPING

PIPE TURNING DOWN

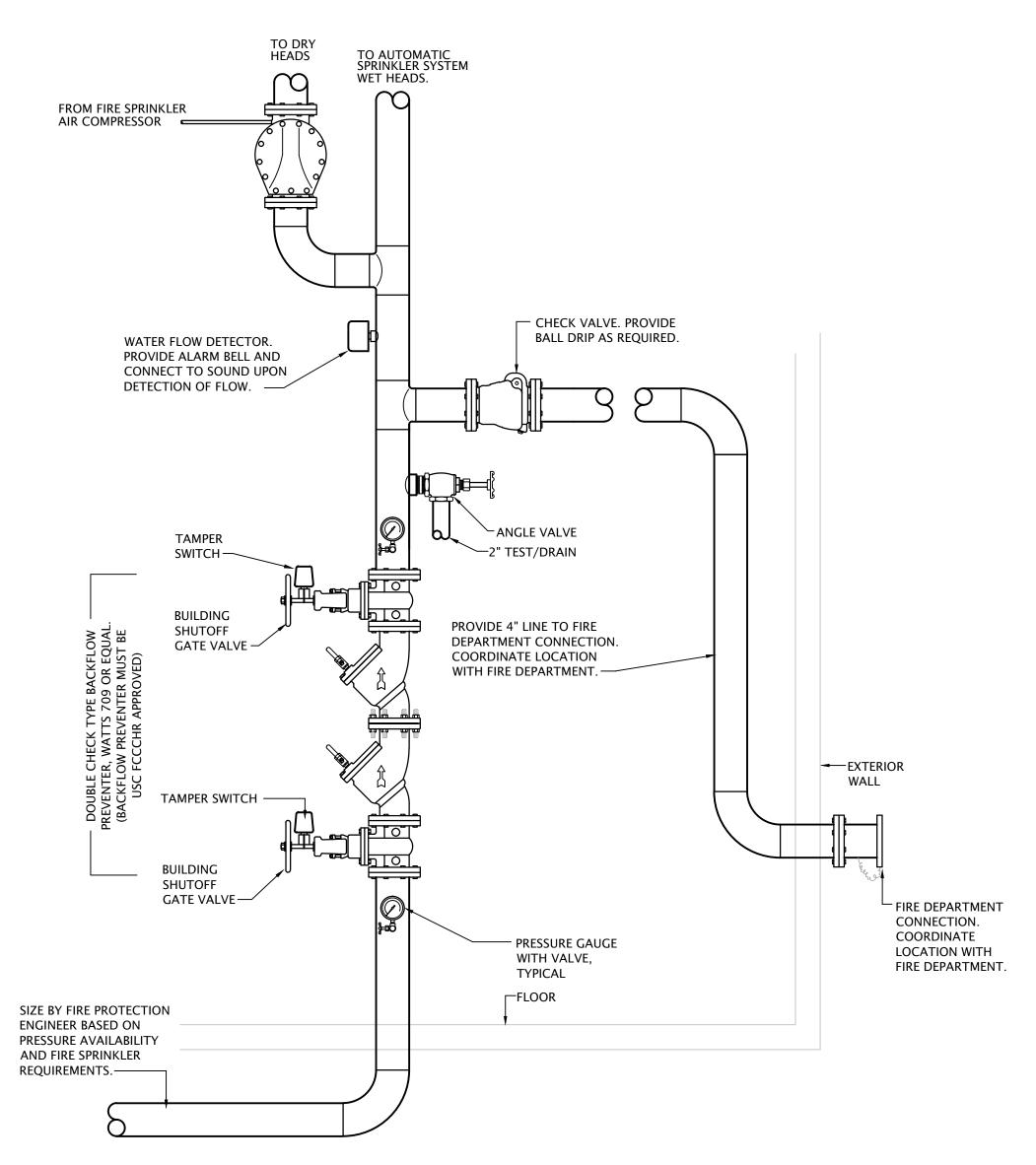
—— FP —— FIRE PROTECTION SERVICE PIPING — ← WASTE PIPING BELOW GRADE

— WASTE PIPING ABOVE GRADE

· · · · · · · · · · · · · · · · · · ·	WATTS MODEL ANSION TANK, OR NT.
OVERFLOW ABOVE DRA	/P RELIEF VALVE / PIPING TO 6" AIN PAN. (TYPICAL) DE PVC DRAIN PAN, ROUTE 3/4" DRAIN
	LL DIRECTLY ABOVE FLOOR DRAIN.

2 APARTMENT WATER HEATER DETAIL

Not to Scale



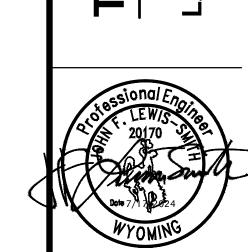
FIRE PROTECTION RISER DIAGRAM



MARK	MANUFACTURER	DESCRIPTION		TRIM		ROUGH-IN	I SIZES		NO.
WARK	MANOPACTORER	DESCRIPTION	MANUFACTURER	DESCRIPTION	WASTE	VENT	CW	HW	INC
WC-A	KOHLER	Model 5296 "Highline" ADA compliant flush tank water closet, white vitreous china, two piece, 12" rough-in, elongated 16-1/2" high bowl, siphon jet flushing action, 1.28 GPF, polished chrome actuator located on open side of room.	KOHLER	K-5588 Purefresh white, elongated closed front seat and cover	4"	2"	1/2"		
WC-B	KOHLER	Model 5296 "Highline" ADA compliant flush tank water closet, white vitreous china, two piece, 12" rough-in, elongated 16-1/2" high bowl, siphon jet flushing action, 1.28 GPF, polished chrome actuator located on open side of room.	KOHLER	K-5588 Purefresh white, elongated closed front seat and cover	4"	2"	1/2"		
LAV-A	AMERICAN STANDARD	Model 0610.000.020 under mount lavatory, white vitreous china, 20"W x 16".	DELTA	Model 35855LF-BL, 0.5 GPM, two handle faucet. Provide pop-up drain.	2"	1-1/2"	1/2"	1/2"	2
LAV-B	KOHLER	Model 2005-0 wall hung lavatory, white vitreous china, 20"W x 17", single faucet hole.	DELTA	Model 15855LF-BL, 0.5 GPM, single handle faucet. Provide pop-up drain.	2"	1-1/2"	1/2"	1/2"	1,2
LAV-C	AMERICAN STANDARD	Model 0610.000.020 under mount lavatory, white vitreous china, 20"W x 16".	DELTA	Model 559HAR-BL-DST single handle faucet. Provide grid drain. Provide point of use tempering valve.	2"	1-1/2"	1/2"	1/2"	1,2
KS-A	JUST	Model DL-2233-A-GR two compartment 18 GA stainless steel sink, self rimming, 14"x16"x8"D inside, fully undercoated, faucet holes as req.	DELTA IN-SINK-ERATOR	Model 19802Z-SP-DST, 1.5 GPM, single handle kitchen sink faucet with pull down spray. Stainless steel finish. Provide basket strainer.  "Badger 5" garbage disposal, 1/2hp, 120V,	2"	1-1/2"	1/2"	1/2"	2
KS-B	JUST	Model DL-ADA-2233-A-GR two compartment 18 GA stainless steel sink, self rimming,	DELTA	cord and plug connected.  Model 19802Z-SP-DST, 1.5 GPM, single handle kitchen sink faucet with pull down spray. Stainless steel finish. Provide basket strainer.	2"	1-1/2"	1/2"	1/2"	1,3
		14"x16"x5"D inside, fully undercoated, faucet holes as req., and drain holes center rear.	IN-SINK-ERATOR	"Badger 5" garbage disposal, 1/2hp, 120V, cord and plug connected.	_	,	,		ŕ
KS-C	BLANCO	Model 442079 single compartment 18 GA stainless steel sink, self rimming, 18"x25"x5-1/2"D inside, and drain hole center	DELTA IN-SINK-ERATOR	Model 19802Z-SP-DST, 1.5 GPM, single handle kitchen sink faucet with pull down hose spray. Black finish. Provide basket strainer.	2"	1-1/2"	1/2"	1/2"	1,3
		rear.	IN-SINK-ERATOR	"Badger 5" garbage disposal, 1/2hp, 120V, cord and plug connected.					
вт-А	AQUARIUS	Model G 6063 TS reinforced fiberglass tub/shower, 60"W x35-3/4"D x76-1/2"H, with integral soap/toiletry shelves, right or left hand rough-in as required, white finish.	DELTA	Model R10000-UNWS/T13H232 single handle pressure-balancing valve with metal tub filler with pull diverter, 1.5 GPM push-clean showerhead and pop-up drain with overflow.	2"	1-1/2"	1/2"	1/2"	2,
BT-B	AQUARIUS	Model S 6000 TS OT reinforced fiberglass ADA tub/shower, 60"W x33"D x82"H, with integral soap/toiletry shelves and grab bars in accordance with ADA requirements, seat at end of tub, right or left hand rough-in as required, white finish. Coordinate blocking for grab bars and fold up seat per ANSI A117.1 requirements with G.C.	DELTA	Model R10000-UNWS/T13H252 pressure balancing tub/shower valve with non-positive shut-off control and temperature control to ensure maximum 120° water with single metal lever handle, 1.5 GPM handshower with double check valves, flexible hose, 24" stainless steel slide bar, metal lever handshower, diverter valve, and shower head with arm.	2"	1-1/2"	1/2"	1/2"	1,2
SH-A	AQUARIUS	Model G-3679-SH cast acrylic shower, 36"W x36"D x79"H, with integral soap/toiletry shelves, right or left hand rough-in as required, center drain, white finish.	DELTA	Model R10000-UNWS/T13H132 single handle pressure-balancing valve, 1.5 GPM push-clean showerhead.	2"	1-1/2"	1/2"	1/2"	
SH-B	AQUARIUS	Model G-3682 BF ANSI A117.1 compliant cast acrylic shower, 36" square inside, 18 gauge stainless steel grab bars, fold up padded seat, molded soap shelves, brass drain w/chrome strainer, collapsible water dam, right or left hand rough-in as required. Coordinate blocking for grab bars and fold up seat per ANSI A117.1 requirements with G.C.	DELTA	Model R10000-UNWS/T13220-H2OT pressure balancing shower valve with integral temperature limits, single metal lever handle, 1.5 GPM handshower with double check valves, flexible hose, and 24" stainless steel slide bar.	2"	1-1/2"	1/2"	1/2"	1
SS	FIAT	Model MSB-2424 one piece molded stone mop basin, 24" square, stainless steel integral drain body with caulk connection, stainless steel wall guards.	DELTA	Model 28T9 faucet with hose thread outlet, vacuum breaker, pail hook, wall brace, metal lever handles.	3"	1-1/2"	3/4"	3/4"	
EWC	ELKAY	Model EMABFTLDDWSLK ADA compliant dual heigh and side push bar actuator, lead-free, 120 volts. Pr Model 98313C Accessory Apron.			2"	1-1/2"	1/2"		
WH	WOODFORD	Model 25 frost proof wall hydrant with anti-siphon	vacuum breaker, m	netal handle.			3/4"		
ССВ	IPS CORP.	Model W4700 recessed washing machine box with turn adaptor ball valves, sweat connection.	2"PVC/ABS drain co	oupling and knockout test cap. Two, 1/4	2"	2"	1/2"	1/2"	
ICB	IPS CORP.	Model FRIB12 ice maker connection box with 1/4 to	urn ball valve and 1	/2" sweat copper connection.			1/2"		
FD	SIOUX CHIEF	Series 833 adjustable floor drain with nickel bronz			2"				
FS	SIOUX CHIEF	Series 861 PVC floor sink with PVC strainer. Provid			4"				
	+	Model ENJ-40, 40 gallon electric water heater, 0.93	LIFE 4500 watts 3	208 volts heating element 21 CPH recovery	OO°E tomr	rico Sun	nlied wit	th	

· Provide fixtures with all trim necessary for complete installation

- 1. Fixture and installation to meet accessibility requirements of the Fair Housing Act.
- 2. Provide 1/4 turn angle stops with escutcheon plates, and chrome plated or braided stainless steel supplies, and 1-1/4" cast brass p-trap.
- 3. Insulate water and waste piping below lavatory. Utilize insulation kit equivalent to LavGuard by Truebro.
- 4. Trim shall be provided with polished chrome finish.
- 5. Fixture shall be WaterSense labeled.



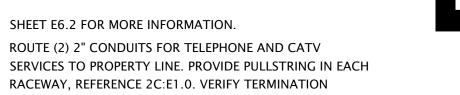
REVISION:

ASI #5 - 3-7-2025

ASI 7 4-18-2025 DATE: 7-17-2024

22-3262 SHEET NO.:





POINTS WITH LOCAL TELEPHONE AND CATV COMPANIES. METER CENTER, SEE ME1.1 AND E6.2 FOR MORE

INFORMATION. POLE MOUNTED AREA LIGHT, REFERENCE 2:E1.0 FOR MORE INFORMATION.

# M/E NOTES BY SYMBOL

PROVIDER PRIOR TO COMMENCING WORK.

1. POWER COMPANY PAD MOUNTED TRANSFORMER.

ROCKY MOUNTAIN POWER STANDARDS. COORDINATE

EXACT LOCATION AND REQUIREMENTS WITH UTILITY

PROVIDE 6" CONDUITS WITH FIBERGLASS ELBOWS FOR

ROCKY MOUNTAIN POWER. SEE CIVIL DRAWINGS FOR

CONCRETE PAD AND VAULT BY GENERAL CONTRACTOR PER

POWER COMPANY PROVIDED PRIMARY CABLING, REFERENCE

2A:E1.0. COORDINATE ROUTING AND REQUIREMENTS WITH

CONTINUATION.

UNDERGROUND CONDUIT FROM TRANSFORMER TO METER

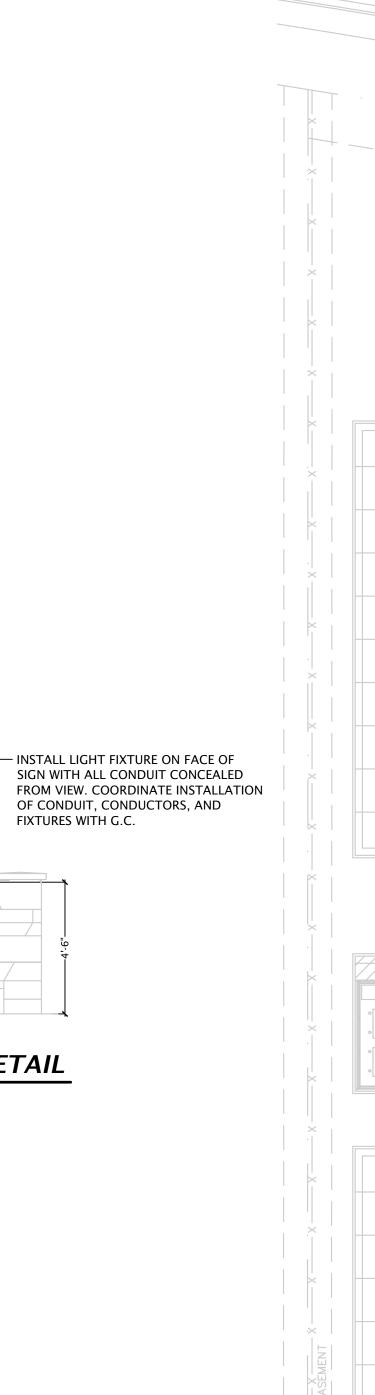
BUILDINGB 124 JAHRS)

CENTER, REFERENCE 2B:E1.0. SEE RISER DIAGRAMS ON

ROUTE CIRCUIT THROUGH EXTERIOR LIGHTING CONTROLS. SEE DETAIL 3:E1.0 AND ME1.1 FOR EXTERIOR LIGHTING CONTROL INFORMATION.

8. INSTALL LIGHTS ON FACE OF MONUMENT SIGN. SEE 4:E1.0 FOR MORE INFORMATION.

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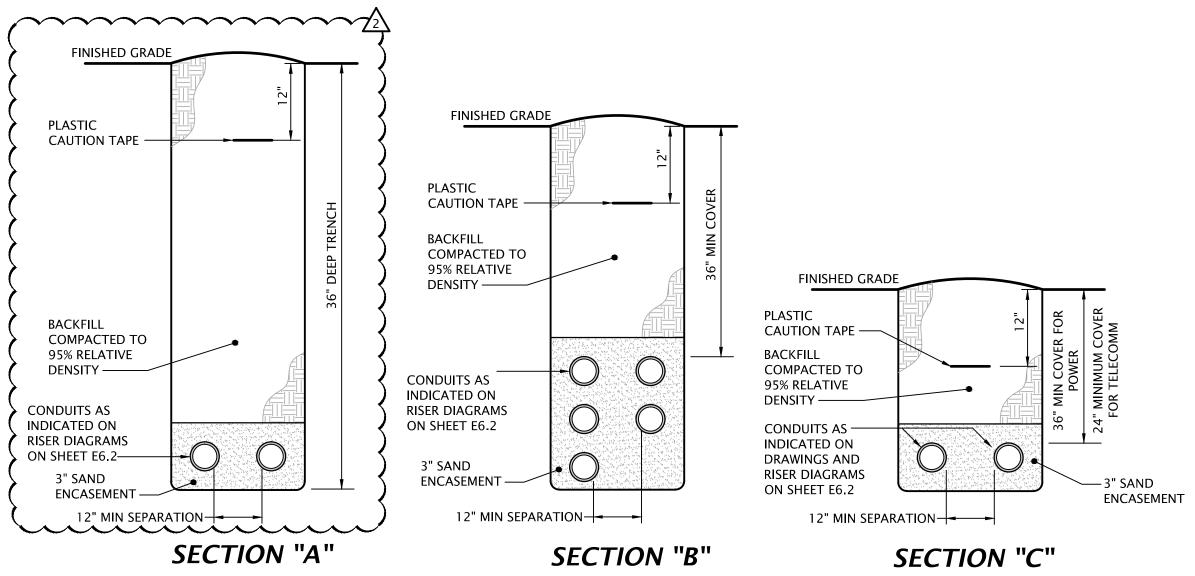


MONUMENT LIGHT DETAIL

No Scale

<del>1</del>-1'-8"<del>-1</del>1'-8"<del>-1</del>

Grand View



—BOND LIGHT POLE

TO POLE BASE

CONCRETE BASE

LAP ENDS 16" MIN.

FINISHED GRADE

1"Ø ANCHOR BOLT.

**€** - - - - - - - - →

GROUND ROD ----

- RIGID STEEL OR PVC

– POLE BASE BOLT DIA PLUS 3", 18" Ø MIN.

ONCRETE POLE BASE DETAIL

No Scale

(2) CONDUIT TRENCH DETAILS

No Scale

─ #6 GND IN 1"C

5/8"Ø x 10'

┝╅╌╟╌╌╌╌╃┪

HDPE OR PVC CONDUIT —

TO GROUND WIRE

BASE COVER ATTACHED

- GROUT BETWEEN POLE BASE PLATE AND TOP OF

- (8) #6 VERTICAL BARS **EQUALLY SPACED** 

—— #4 BAR HOOPS AT 16" O.C.

NUMBER AND PLACEMENT PER MANUFACTURER'S RECOMMENDATIONS

LIGHTING POLE -

3/4" CHAMFERED

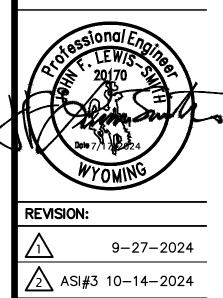
HAND HOLE -

CORNERS —

SITTING BULL TRAIL

1" = 20'-0"

VIA 'LC-B'



7-17-2024

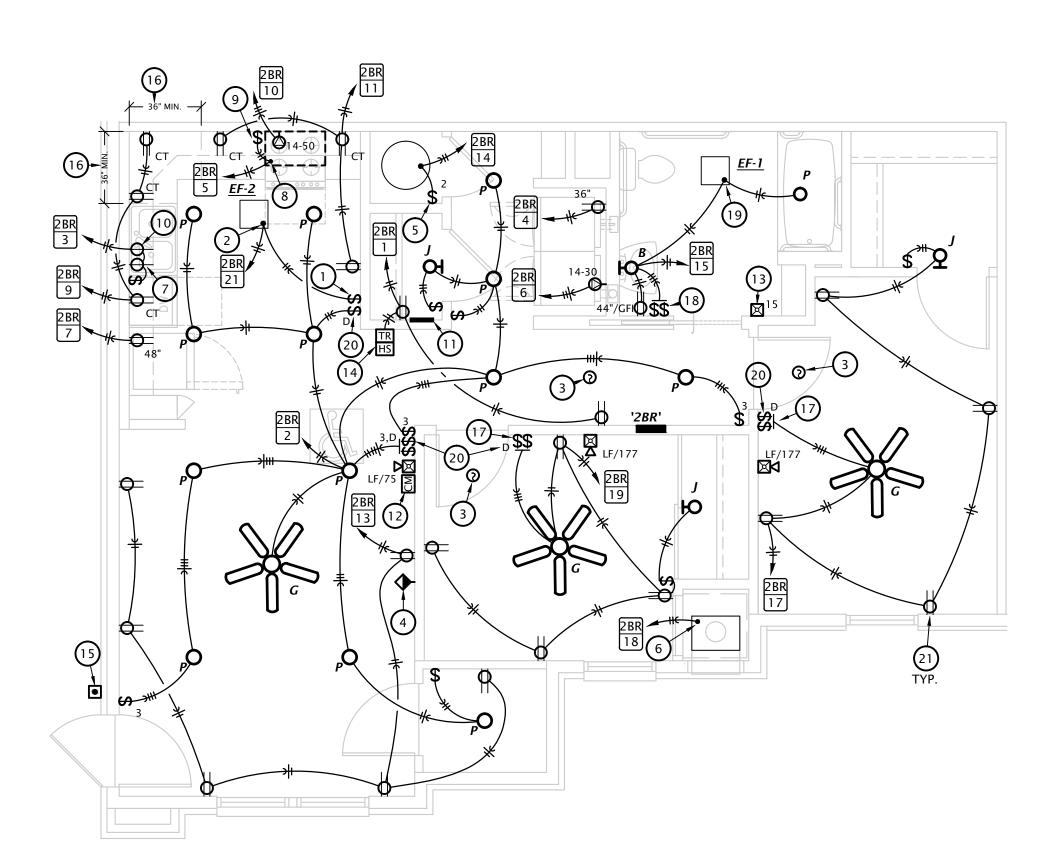
E1.0

22-3262 SHEET NO.:

7-17-2024 22-3262 SHEET NO .:

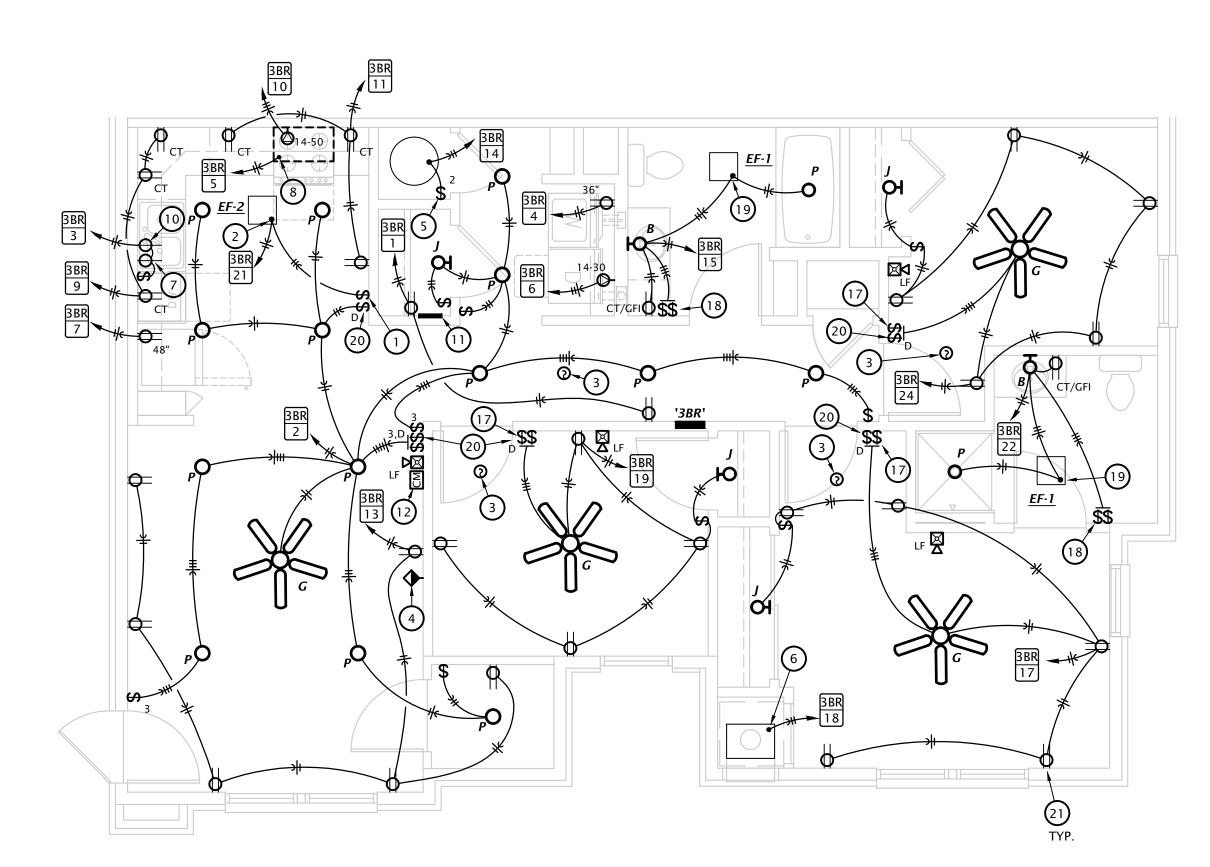
**E4.1** 

1/4" = 1'-0"

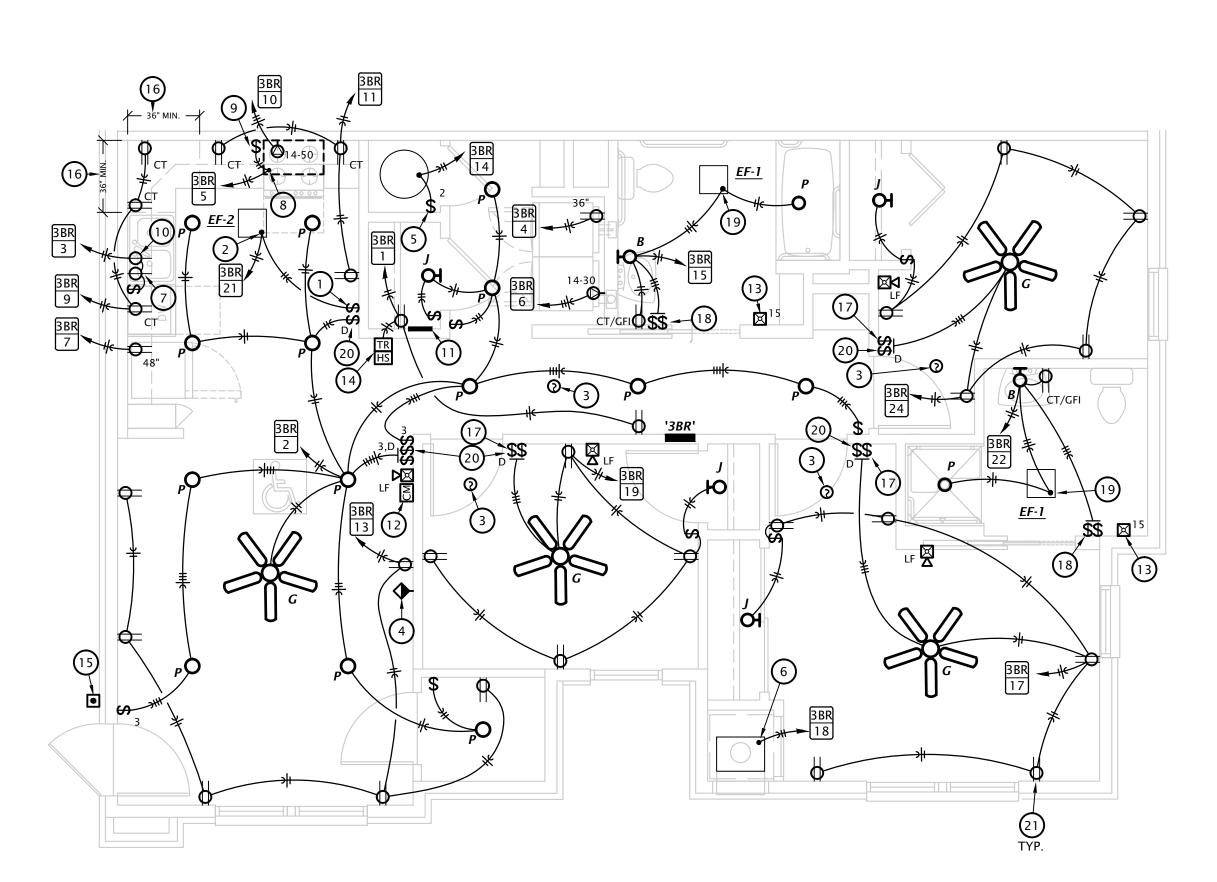


3 2 BEDROOM ACCESSIBLE POWER PLAN

1/4" = 1'-0"



2 3 BEDROOM POWER PLAN
1/4" = 1'-0"



3 BEDROOM ACCESSIBLE POWER PLAN

1/4" = 1'-0"

**#** ELECTRICAL NOTES BY SYMBOL

NOTES SHOWN ARE TYPICAL FOR ALL APARTMENTS WHERE APPLICABLE. VERIFY EXACT LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PROVIDED OR SELECTED BY OWNER.

 PROVIDE TAMPER PROOF RECEPTACLES IN DWELLING UNITS PER NEC REQUIREMENTS. 1. PROVIDED SINGLE POLE SWITCH FOR KITCHEN EXHAUST FAN HIGH SPEED

CONTROL. WIRE PER MANUFACTURERS RECOMMENDATION. COORDINATE WITH EQUIPMENT PROVIDED AND M.C. 2. CONNECT EXHAUST FAN PROVIDED BY MECHANICAL CONTRACTOR.

CIRCUIT FAN FOR CONTINUOUS OPERATION. 3. FIRE ALARM SYSTEM SMOKE DETECTOR.

4. COORDINATE FINAL LOCATIONS OF ALL CATV AND PHONE OUTLETS WITH OWNER. SEE 3:E6.1 FOR MORE INFORMATION.

5. PROVIDE 30A/2P SNAP SWITCH AND CONNECT WATER HEATER.

6. MAKE FINAL CONNECTION TO VERTICAL PACKAGED UNIT. EQUIPMENT TO BE PROVIDED WITH INTEGRAL DISCONNECT SWITCH. SEE EQUIPMENT SCHEDULE FOR MORE INFORMATION. COORDINATE REQUIREMENTS

7. PROVIDE SWITCHED SIMPLEX RECEPTACLE BELOW COUNTER FOR DISPOSAL OPERATION.

8. PROVIDE 120V CONNECTION TO MICROWAVE. ACCESSIBLE UNITS WILL HAVE RANGE HOOD. COORDINATE EXACT ELECTRICAL ROUGH-IN REQUIREMENTS WITH EQUIPMENT PROVIDED. IF EQUIPMENT IS CORD AND PLUG, PROVIDE RECEPTACLE INSIDE CABINET ABOVE RANGE.

9. PROVIDE SWITCH IN ACCESSIBLE UNITS FOR CONTROL OF RANGE HOOD 10. PROVIDE SIMPLEX RECEPTACLE BELOW COUNTER FOR CORD AND PLUG CONNECTION OF DISHWASHER. PROVIDE CORD AND GROUNDING PLUG

AS REQUIRED. RECEPTACLE SHALL BE LOCATED IN BASE CABINET ADJACENT TO DISHWASHER TO ALLOW ACCESS TO PLUG. 11. TELECOM DISTRIBUTION DEVICE. SEE DETAIL 1, SHEET E6.1. COORDINATE EXACT REQUIREMENTS WITH UTILITY PROVIDER SELECTED

12. FIRE ALARM ADDRESSABLE CONTROL MODULE FOR CONTROL OF APARTMENT UNIT'S NOTIFICATION APPLIANCE CIRCUIT. MODULE SHALL BE PROGRAMMED TO ACTIVATE APARTMENT UNIT'S NOTIFICATION APPLIANCES UPON GENERAL BUILDING FIRE ALARM AND UPON

ACTIVATION OF ANY SMOKE DETECTOR OR CO DETECTOR WITHIN

APARTMENT UNIT. MOUNT FLUSH IN WALL AT 8'-0" AFF. 13. IN ACCESSIBLE AND HEARING IMPAIRED APARTMENT BATHROOMS, PROVIDE AUXILIARY STROBE AT 80" AFF.

14. PROVIDE DOOR ANNUNCIATOR SYSTEM A/V HORN/STROBE DEVICE AND LOW VOLTAGE TRANSFORMER AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED HEARING-IMPAIRED. INSTALL HORN/STROBE APPLIANCE AT 80" AFF. INSTALL TRANSFORMER IN DOUBLE GANG JUNCTION BOX ABOVE HORN/STROBE WITH BLANK COVER PLATE AND PROVIDE LOW VOLTAGE CONTROL WIRING. REFER TO DETAIL 3, SHEET E6.1. PROVIDE ENGRAVED SIGN AT THE HORN/STROBE DEVICE TO READ "DOOR".

15. PROVIDE PUSH BUTTON AT 48" AFF FOR ANNUNCIATOR SYSTEM AT ALL ACCESSIBLE APARTMENTS AND ALSO AT APARTMENTS DESIGNATED FOR HEARING-IMPAIRED. REFER TO ARCH DRAWINGS FOR APPLICABLE ROOMS. REFER TO DETAIL 3, SHEET E6.1.

16. IN ACCESSIBLE UNITS, INSTALL COUNTERTOP RECEPTACLES A MINIMUM 36" AWAY FROM CORNER PER FAIR HOUSING ACT DESIGN MANUAL CHAPTER 5 'SIDE REACH OVER AN OBSTRUCTION' REQUIREMENTS. WHERE AN OBSTRUCTION PREVENTS 36" DISTANCE REQUIREMENT, INSTALL RECEPTACLE AS FAR FROM CORNER AS POSSIBLE. PROVIDE ADDITIONAL OUTLETS WITHIN 36" OF CORNER TO ENSURE COMPLIANCE WITH NEC SPACING REQUIREMENTS.

LIGHTS AND EXHAUST FAN TO BE SWITCHED SEPARATELY, SWITCH CLOSEST TO DOOR TO CONTROL LIGHTS.

20. PROVIDE PRESET SLIDE DIMMER COMPATIBLE WITH ASSOCIATED LIGHT

17. SWITCH CEILING FAN AND LIGHT SEPARATELY.

19. CONNECT EXHAUST FAN PROVIDED BY MECHANICAL CONTRACTOR.

21. PROVIDE AIRTIGHT BOXES FOR ALL DEVICES INSTALLED ON AIR BARRIER

LST Consulting Engineers, PA
MANHATTAN

4809 Vue Du Lac Place, Suite 201
Manhattan, KS 66503
785.587.8042

LST Consulting Engineers, PA
WICHITA

125 S. Washington, Suite 150
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	www.LSTengineers.com mail@LSTengineers.com	
Project 24037		July 2023

MARK	MANUF.	MODEL NUMBER		LAMP DATA	BALLAST/LED DRIVER	MOUNTING	FINISH	DESCRIPTION	NOTES
			#	TYPE	Diver				
A	LITHONIA	FMFL-30840-CAML-WH		2800 LUMEN 35W LED	STANDARD	SURFACE	WHITE	LED DECORATIVE SURFACE	
В	ALORA	ALR2365681		1180 LUMEN 22W LED	STANDARD	WALL	BRONZE	LED VANITY LIGHT	
С	LITHONIA	FML-WL-48-35		2380 LUMEN 40W LED	STANDARD	SURFACE	WHITE	4' LED WRAP AROUND	
D	VISUAL COMFORT	6151701		900 LUMEN 9W LED	STANDARD	PENDANT	BLACK	DECORATIVE LED PENDANDT	
E1	LITHONIA	EU2-LED-M12	2	1W LED	STANDARD	WALL	WHITE	LED EMERGENCY LIGHT	2
<b>*</b> * *			4 4			E2' DELETED			
F	HALO	SMD6R-6-930-WH		600 LUMEN 10W LED	STANDARD	Wall	WHITE	6" ROUND SURFACE MOUNT DOWNLIGHT	9
G	SEAGULL	15030EN-829	2	10W LED	STANDARD	SURFACE	BRONZE	52" DIAMETER CEILING FAN WITH LED LIGHT KIT	
Н	BEACON	LSQ1-25-4K7-UNV		30W LED 3,181 LUMEN	0-10V DIMMING	SURFACE	SELECTED BY ARCHITECT	SQUARE SURFACE MOUNTED ACRYLIC LENS	4,5,6
J	HALO	SMD6R-6-930-WH		600 LUMEN 10W LED	STANDARD	Wall	WHITE	6" ROUND SURFACE MOUNT DOWNLIGHT	8
K	LITHONIA	FMML-13-8-40-WL		1985 LUMEN 28W LED	STANDARD	SURFACE	WHITE	13" ROUND LED FLUSH MOUNT	
М	LITHONIA	CSS-L48-4000LM-MVOLT-40K-80CRI		4298 LUMEN 34W LED	STANDARD	SURFACE	WHITE	4 FOOT LENSED LED STRIP LIGHT	
N	MULE	MERU-LED-ACEM-DB-IH		1800 LUMEN 32W LED	STANDARD	WALL @ 8'-0" AFF	DARK BRONZE	LED GENERAL AND EMERGENCY LIGHT WITH DIE CAST ALUMINUM HOUSING AND COLD WEATHER PACKAGE	2,4
Р	HALO	SMD6R-6-930-WH		600 LUMEN 10W LED	STANDARD	SURFACE	WHITE	6" ROUND SURFACE MOUNT DOWNLIGHT	7
R1	MCGRAW EDISON	TLM-E01-LED-E1-T4		3,064 LUMEN 25W LED	STANDARD	POLE	BLACK	LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH IES TYPE IV DISTRIBUTION	1,4
R12	MCGRAW EDISON	(2) TLM-E01-LED-E1-T4		3,064 LUMEN 25W LED EACH	STANDARD	POLE	BLACK	LED AREA LIGHTS, TWO HEADS MOUNTED AT 90°, FULL CUT-OFF WITH IES TYPE IV DISTRIBUTION	1,4
R2	MCGRAW EDISON	TLM-E01-LED-E1-SLL		2,782 LUMEN 25W LED	STANDARD	POLE	BLACK	LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH SPILL LIGHT ELIMINATOR LEFT	1,4
R3	MCGRAW EDISON	TLM-E01-LED-E1-SLR		2,782 LUMEN 25W LED	STANDARD	POLE	BLACK	LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH SPILL LIGHT ELIMINATOR RIGHT	1,4
S	LUMIERE	303-S1-LEDB1-400K-UNV-T5X-BK-12		634 LUMEN 8.5W LED	FIXED OUTPUT DRIVER	SIGN	BLACK	WALL MOUNTED LED SIGN LIGHT WITH 12" ARM	4
W	GOTHAM	ICO4-40/05/AR/LSS10D		500 LUMEN 7 W LED	STANDARD	SURFACE	WHITE	4" DIAMETER LED WALL WASH DOWNLIGHT WITH 10° BEAM ANGLE	9
X	LITHONIA	EXRC-EL-M6		LED	STANDARD	WALL/SURFACE	WHITE	EXIT SIGN WITH RED LETTERING	2,3
XER	LITHONIA	ECR-LED-HO-M6-ELA-LED-M12		LED	STANDARD	WALL/SURFACE	WHITE	EXIT/EMERGENCY LIGHT W/ REMOTE HEAD	2,3

- Fixture/pole assemblies shall be rated for 100mph wind loads. Provide wind dampeners when recommended by the manufacturer.
- All fixtures shall be provided with multi-volt driver capable of operating between 120V-277V
- All exterior fixtures shall be 4000K color temperature
- All interior fixtures shall be 3000K color temperature • All apartment light fixtures and ceiling fans shall be Energy Star rated

- 1. Provide fixture/pole assembly with mounting arm and 17' round straight steel pole, black to match fixture.
- 2. Provide with test switch, status indicator and rechargeable nickel-cadmium battery for 90 minutes of emergency power.
- 3. Provide wall or ceiling mounted as required
- 4. Fixture shall be U.L. listed for wet locations.
- 5. Provide with integrally occupancy sensor. 6. Provide with emergency battery backup.
- 7. Where installed above showers and tubs fixture shall be wet location listed.
- 8. Ensure fixture complies with 410.16(C)(5).

CIRCUIT 'HB:10'

FOR LOCATION.

AUTO

OFF •

المالم<del>ا</del>

- 120V PHOTOCELL WITH 1/2" PIPE NIPPLE AND SWIVEL

MOUNT. INTERMATIC #K4236C OR EQUAL, SEE 1:ME1.1

CONTACTOR 'LC-B'
APARTMENT MECH CLOSET

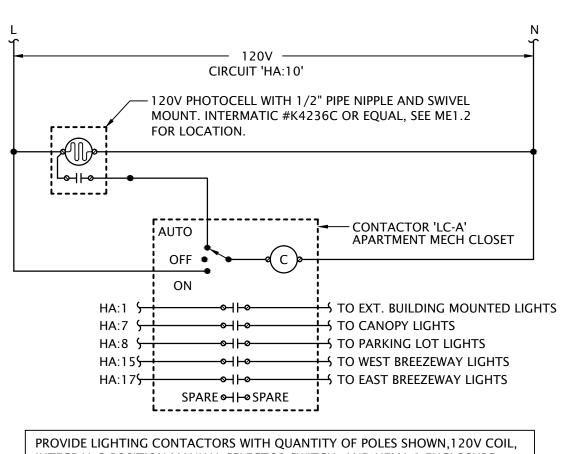
9. Fixture shall be U.L. listed for damp locations.

## 120 VAC 24 VAC HORN/STROBE POWER SUPPLY

### DOOR ALARM BUZZER SYSTEM NOTES

- 1. PROVIDE DOOR ANNUNCIATOR SYSTEM COMPLETE WITH PUSH BUTTON, HORN/STROBE(S), POWER SUPPLIES AND ALL WIRING REQUIRED. HORN/STROBE SHALL ACTIVATE WHEN PUSH BUTTON IS DEPRESSED.
- 2. HORN/STROBE SHALL OPERATE AT 24VAC, HAVE A CLEAR LENS WITH 50cd STROBE AND HORN WITH 82dB AT 10', UL 1638 LISTED, EDWARDS #6536-G5. FLUSH MOUNT IN WALL AT 6'-8" AFF.
- 3. PUSH BUTTON SHALL BE WHITE WITH CHROME RIM, NON-ILLUMINATED, WITH N.O. MOMENTARY CONTACTS, RATED FOR 0.67 AMPS AT 24VAC, EDWARDS #620. PROVIDE WITH STAINLESS STEEL COVER PLATE, EDWARDS #147-10. MOUNT AT 48" AFF.
- 4. POWER SUPPLY SHALL BE A LOW VOLTAGE CLASS 2 TRANSFORMER WITH 120VAC PRIMARY AND 24VAC SECONDARY, 20VA, EDWARDS #598. FLUSH MOUNT IN 2-GANG WALL BOX WITH BLANK COVER PLATE, DIRECTLY ABOVE HORN/STROBE.
- 5. LOW VOLTAGE CLASS 2 CABLING SHALL BE MINIMUM 18 AWG UNSHIELDED.

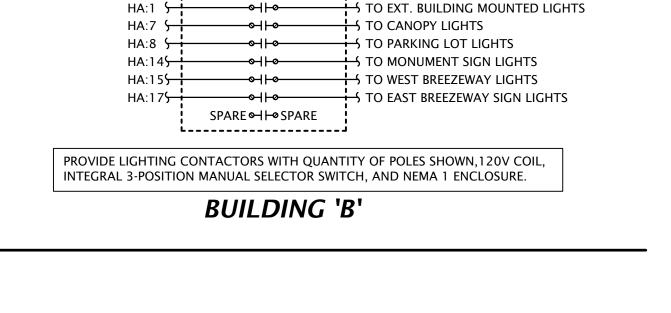
# 3 APARTMENT DOOR ANNUNCIATOR DIAGRAM No Scale

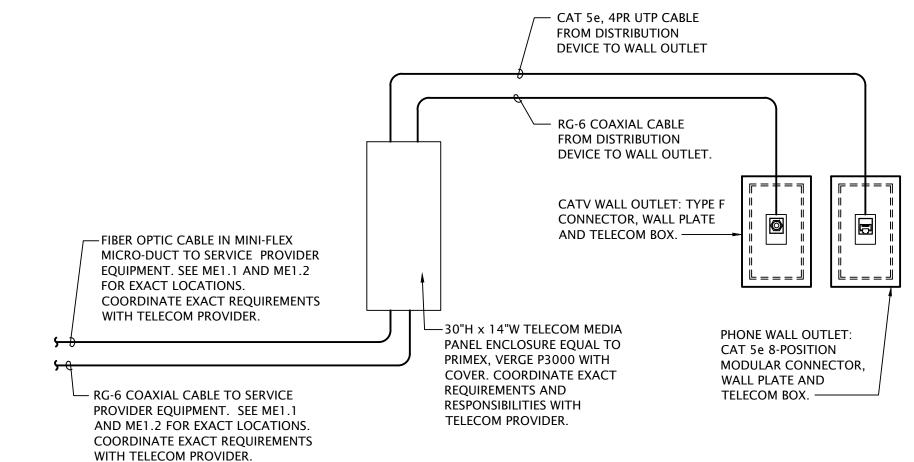


INTEGRAL 3-POSITION MANUAL SELECTOR SWITCH, AND NEMA 1 ENCLOSURE.

## **BUILDING 'A'**

## 2 EXTERIOR LIGHTING CONTROL DIAGRAMS No Scale





1 APARTMENT TELECOM WIRING SCHEMATIC
No Scale

E6.1

**REVISION:** 

ASI #5 - 3-7-2025

ASI #7 - 4-18-2025 7-17-2024

22-3262 SHEET NO .:

Apartment #	Feeder Size				
A103, A104, A105, A106, A203, A204, A303, A304, A205, A206, A305, A306, B105, B106, B107, B108, B205, B206, B207, B208, B305, B306, B307, B308	BASE BID (COPPER): (3)#1,#6G IN 1-1/4" C OR MC CABLE ALTERNATE BID (ALUMINUM): (3)#1/0, #4G IN 1-1/2" C OR MC CABLE				
A101, A102, A201, A202, A301, A302, B103, B104, B203, B204, B303, B304	BASE BID (COPPER): (3)#1/0,#4G IN 1-1/2" C. OR MC CABL ALTERNATE BID (ALUMINUM): (3)#3/0, #2G IN 2" C OR MC CABLE				
B101, B102, B201, B202, B301, B302	BASE BID (COPPER): (3)#1/0,#4G IN 1-1/2" C. OR MC CABL ALTERNATE BID (ALUMINUM): (3)#4/0, #1G IN 2" C OR MC CABLE				

2. Ensure panel lugs are adequately sized to handle up-sized feeders. Provide lug adapter kits if required.

locations.

Information:

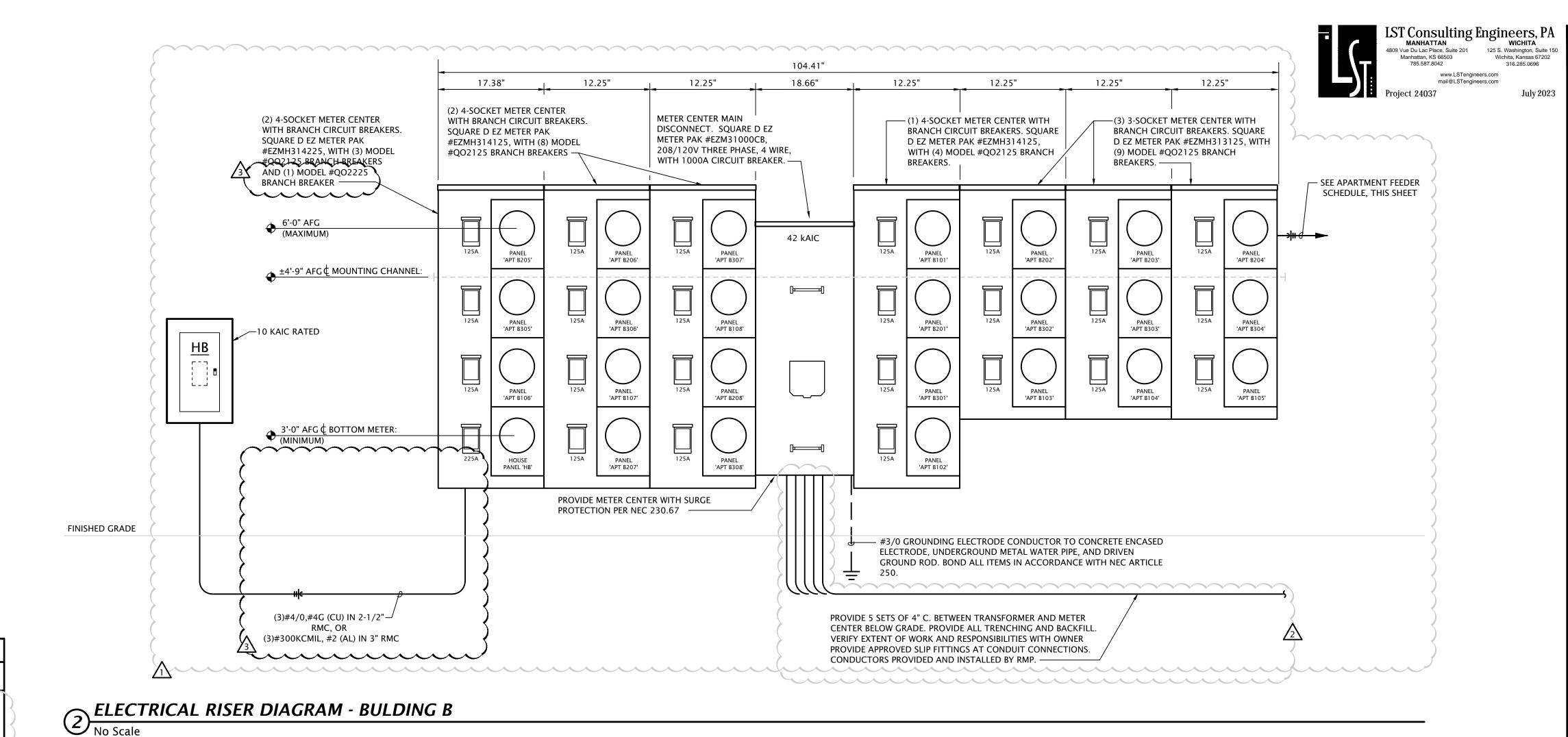
42,000A peak let through.

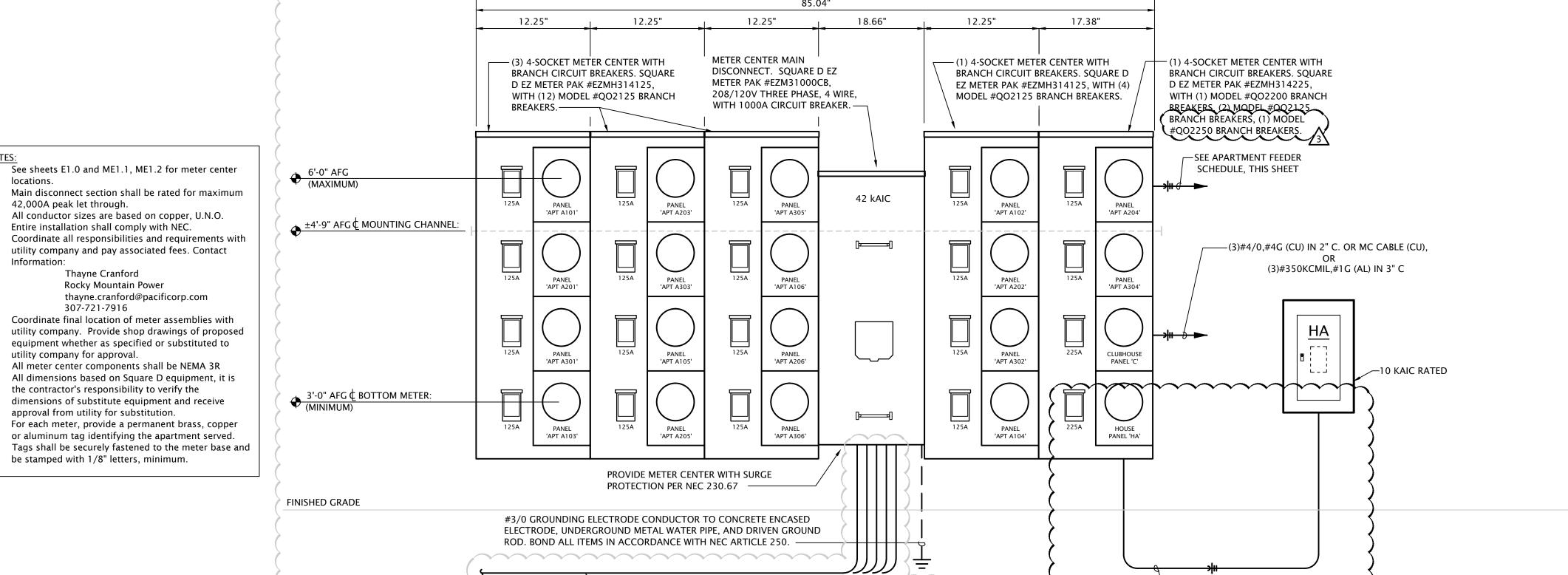
Thayne Cranford

307-721-7916

utility company for approval.







(3)#4/0,#4G (CU) IN 2-1/2"

(3)#300KCMIL, #2 (AL) IN 3" RMC

3

-PROVIDE 5 SETS OF 4" C. BETWEEN TRANSFORMER AND METER CENTER

BELOW GRADE. PROVIDE ALL TRENCHING AND BACKFILL. VERIFY EXTENT

OF WORK AND RESPONSIBILITIES WITH OWNER PROVIDE APPROVED SLIP

FITTINGS AT CONDUIT CONNECTIONS. CONDUCTORS PROVIDED AND

INSTALLED BY RMP.

1 ELECTRICAL RISER DIAGRAM - BULDING A
No Scale

**REVISION:** 1 9-27-2024

<u>/2</u>\ ASI#3 10-14-2024

/3\ ASI #7 - 4-18-2025 7-17-2024 22-3262

SHEET NO.:

E6.2

					Manufacturer: Square D'NQ' Bus Amps: 225 MCB Amps: MLO AIC Rating: 10 KAIC Other: Integral Surge Protection			
ircuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit #	
1	LTG - CLUB,OFFICE,LIBRARY	2#12,#12G., 1/2"C.	20 / 1	20 / 1	2#12,#12G., 1/2"C.	RCPT - OFFICE 112	2	
3	LTG - HALL,STOR,FITNESS	2#12,#12G., 1/2"C.	20 / 1	20 / 1	2#12,#12G., 1/2"C.	RCPT - CLUB 101	4	
5	SPARE BREAKER		20 / 1	20 / 1	2#12,#12G., 1/2"C.	RCPT - WARMING COUNTER	6	
7	RCPT - LIBRARY	2#12,#12G., 1/2"C.	20 / 1	20 / 1	2#12,#12G., 1/2"C.	RCPT - WARMING COUNTER	8	
9	RCPT - HALL,STOR,TLTS	2#12,#12G., 1/2"C.	20 / 1	20 / 1		SPARE BREAKER	10	
11	RCPT - FITNESS	2#12,#12G., 1/2"C.	20 / 1	20 / 1	2#12,#12G., 1/2"C.	RCPT - DISHWASHER	12	
13	RCPT - FITNESS	2#12,#12G., 1/2"C.	20 / 1	20 / 1	2#12,#12G., 1/2"C.	RCPT - REFRIGERATOR	14	
15	RCPT - FITNESS	2#12,#12G., 1/2"C.	20 / 1	20 / 1	2#12,#12G., 1/2"C.	RCPT - DISPOSER	16	
17	RCPT - STOR 103	2#12,#12G., 1/2"C.	20 / 1	45 / 2	2#8,#10G., 3/4"C.	HEAT PUMP 'HP' 15 MCA	18	
19	RCPT - STOR 103	2#12,#12G., 1/2"C.	20 / 1				20	
21	HEATER 'EH-1'	2#10,#10G., 3/4"C.	25 / 2	60 / 2	2#4,#10G., 1"C.	BLOWER COIL 'BC' CIRCUIT #1	22	
23						7.2 KW	24	
25	WATER HEATER	2#10,#10G., 3/4"C.	30 / 2	25 / 2	2#10,#10G., 3/4"C.	BLOWER COIL 'BC'	26	
27						CIRCUIT #2 3.6 KW	28	
29	FUTURE DE-ICING SYSTEM	1" C. WITH PULL STRING	2			SPACE	30	
31						SPACE	32	
33	FUTURE DE-ICING SYSTEM	1" C. WITH PULL STRING	2			SPACE	34	
35						SPACE	36	
37	SPACE					SPACE	38	
39	SPACE					SPACE	40	
41	SPACE					SPACE	42	

					Bus Amps MCB Amps AIC Rating	:: MLO	on						Manufacturer: Bus Amps: MCB Amps: AIC Rating: Other:	: 225 : MLO	on
rcuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit #	Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit
1	EXTERIOR BUILDING LIGHTS	2#10,#10G., 3/4"C.	20 / 1	20 / 1	2#12,#12G., 1/2"C.	FACP	2	1	EXTERIOR BUILDING LIGHTS	2#10,#10G., 3/4"C.	20 / 1	20 / 1	2#12,#12G., 1/2"C.	FACP	2
3	WALL HEATER	2#12,#12G., 1/2"C.	20 / 2	20 / 1	2#12,#12G., 1/2"C.	RECEPTACLES	4	3	WALL HEATER	2#12,#12G., 1/2"C.	20 / 2	20 / 1	2#12,#12G., 1/2"C.	RECEPTACLES	4
5				20 / 1	2#10,#10G., 3/4"C.	FUTURE RADON FANS	6	5				20 / 1	2#10,#10G., 3/4"C.	FUTURE RADON FANS	6
7	PARKING LOT CANOPY LIGHTING	2#10,#10G., 3/4"C.	20 / 1	20 / 1	2#10,#10G.,3/4"C.	PARKING LOT LIGHTS	8	7	PARKING LOT CANOPY LIGHTING	2#10,#10G., 3/4"C.	20 / 1	20 / 1	2#10,#10G., 3/4"C.	PARKING LOT LIGHTS	8
9	FIRE SPRINKLER AIR COMPRESSOR	2#12,#12G., 1/2"C.	20 / 1	20 / 1	2#12,#12G., 1/2"C.	EXTERIOR LIGHTING CONTROLS	10	9	FIRE SPRINKLER AIR COMPRESSOR	2#12,#12G., 1/2"C.	20 / 1	20 / 1	2#12,#12G., 1/2"C.	EXTERIOR LIGHTING CONTROLS	10
11	SPARE BREAKER		20 / 1	20 / 1	2#12,#12G., 1/2"C.	TELECOMM	12	11	SPARE BREAKER		20 / 1	20 / 1	2#12,#12G., 1/2"C.	TELECOMM	12
13	SPARE BREAKER		20 / 1	20 / 1	2#10,#10G.,3/4"C.	MONUMENT SIGN LIGHTING	14	13	SPARE BREAKER		20 / 1			SPACE	14
15	WEST BREEZEWAY LIGHTS	2#10,#10G., 3/4"C.	20 / 1	2	1"C. WITH PULL STRING	FUTURE DE-ICING SYSTEM	16	15	WEST BREEZEWAY LIGHTS	2#10,#10G., 3/4"C.	20 / 1	2	1" C. WITH PULL STRING	FUTURE DE-ICING SYSTEM	16
17	EAST BREEZEWAY LIGHTS	2#10,#10G., 3/4"C.	20 / 1				18	17	EAST BREEZEWAY LIGHTS	2#10,#10G., 3/4"C.	20 / 1				18
19	FUTURE DE-ICING SYSTEM	1"C. WITH PULL STRING	2	2	1"C. WITH PULL STRING	FUTURE DE-ICING SYSTEM	20	19	FUTURE DE-ICING SYSTEM	1" C. WITH PULL STRING	2	2	1" C. WITH PULL STRING	FUTURE DE-ICING SYSTEM	20
21							22	21							22
23	FUTURE DE-ICING SYSTEM	1 "C. WITH PULL STRING	2	2	1"C. WITH PULL STRING	FUTURE DE-ICING SYSTEM	24	23	FUTURE DE-ICING SYSTEM	1" C. WITH PULL STRING	2	2	1" C. WITH PULL STRING	FUTURE DE-ICING SYSTEM	24
25							26	25							26
27	SPACE			25 / 2	2#10,#10G.,3/4"C.	HEAT PUMP EAST BREEZEWAY	28	27	SPACE ONLY			25 / 2	2#10,#10G.,3/4"C.	HEAT PUMP EAST BREEZEWAY	28
29	SPACE					(15 MCA)	30	29	SPACE ONLY					(15 MCA)	30
31	SPACE			40 / 2	2#6,#8G., 1"C.	BLOWER COIL EAST BREEZEWAY	32	31	SPACE ONLY			40 / 2	2#6,#8G., 1"C.	BLOWER COIL EAST BREEZEWAY	32
33	SPACE					(38 MCA)	34	33	SPACE ONLY					(38 MCA)	34
35	SPACE			40 / 2	2#8,#10G., 3/4"C.	BLOWER COIL WEST BREEZEWAY	36	35	SPACE ONLY			40 / 2	2#8,#10G., 3/4"C.	BLOWER COIL WEST BREEZEWAY	36
37	SPACE					(38 MCA)	38	37	SPACE ONLY					(38 MCA)	38
39	FUTURE SOLAR SPACE			25 / 2	2#10,#10G.,3/4"C.	HEAT PUMP WEST BREEZEWAY	40	39	FUTURE SOLAR SPACE			25 / 2	2#10,#10G.,3/4"C.	HEAT PUMP WEST BREEZEWAY	40
41						(15 MCA)	42	41						(15 MCA)	42

Load Types	Connected VA	VA/ft²	NEC Demand F	actor	Demand VA	
General Lighting	735	0.00	125%		919	
Convenience Receptacles	6,480	0.00	100% of 1st 10 KVA, 50%	of Remainder	6,480	
Dedicated Outlets	3,000	0.00	100%	3,000		
Motors	516	0.00	125%		645	
Air Conditioning*	5,408	0.00	0%	0		
Electric Space Heating*	14,776	0.00	125%	18,470		
Water Heaters	4,500	0.00	125%		5,625	
Future Snow Melt	4,000	0.00	100%		4,000	
			Total	NEC Demand VA	39,139	
* Demand load incorporates gre	ater of heating		Spa	are Capacity = 10%	3,914	
and A/C loads				Total Service VA	43,053	
			Minimum Ampacity at	208/120V-1Ph-3W	207	
				Service Size =	225 A	

Area	880	SF						
							Connected	Demand
							Load (VA)	Load (VA
eede	er & Se	rvice Loads per NEC 22	0.82 Part	IV				
В	GENER	RAL LOADS						
B1	Genera	ıl Lighting & Receptacles (22	20.82 (B)(1	}}				
		Lighting & Receptacles		VA/SF	880	SF	2,640	
50	0 " 4		0: : :00	00 00 (D) (O)				
B2		ppliance & Laundry Branch	•			O: ''	4.500	
		Laundry Circuit		VA/Circuit		Circuit	1,500	
	D)	Kitchen Circuits	1,500	VA/Circuit	2	Circuit	3,000	
ВЗ	Namep	late Ratings of Equipment (2	220.82 (B)(	3))				
		Dishwasher		VA/Circuit	1	ea	840	
	a2)	Refrigerator	1,000	VA/Circuit	1	ea	1,000	
	a3)	Microwave	1200	VA/Circuit	1	ea	1,200	
	a4)	Disposal	1175	VA/Circuit	1	ea	1,175	
	b)	Electric Range	8,000	VA/Circuit	1	ea	8,000	
	c)	Clothes Dryer	5,000	VA/Circuit	1	ea	5,000	
	d)	Water Heater	4,500	VA/Circuit	1	ea	4,500	
В4	Namen	late Ratings of Motors (220.	82 (B)(4))					
		Blower Coil Fan		VA/Circuit	1	ea	150	
		Exhaust Fan - Kitchen		VA/Circuit		ea	20	
		Exhaust Fan - RR		VA/Circuit		ea	40	
	.,			Part (B) Con				
		Part (B) Demand I						17,626
C	HEATI	NG AND AIR-CONDITIONI	NG LOAD		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
СЗ	100% c	of Heat Pump & 65% Supple	mental Ele	ctric Heat (2	20.82 (C	)(3))		
	1)	Heat Pump #1 (VTAC-18)	1,893	VA/Circuit	1	ea	5,988	
	2)	kW of Electric Heat	6	kW	65%			
	,		F	art (C) Con	nected La	ad Total	5,988	
					P	art (C) De	emand Load	5,988
				Total	Dwelling	Llnit De	mand Load	23,614
				i otai	•		Demand VA	23,614
				T - 4 -			0V-1Ph-3W	114
				I DTA	II Amne 4	の ノいおバーノ	UV-IPH-JW	114

								Connected Load (VA)	Demand Load (VA)
eed	er & Se	rvice Loads	per NEC 220	).82 Part IV	1				
В	GENER	RAL LOADS							
В1	Genera	I Lighting & R	eceptacles (22	0.82 (B)(1))					
	a)	Lighting & Re	ceptacles	3	VA/SF	1105	SF	3,315	
B2			undry Branch (						
		Laundry Circu			VA/Circuit		Circuit	1,500	
	b)	Kitchen Circu	its	1,500	VA/Circuit	2	Circuit	3,000	
ВЗ	Namepl	ate Ratings o	f Equipment (2:	20.82 (B)(3)	)				
	-	Dishwasher			VA/Circuit	1	ea	840	
		Refrigerator			VA/Circuit	1	ea	1,000	
		Microwave			VA/Circuit	1	ea	1,200	
		Disposal			VA/Circuit	1	ea	1,175	
		Electric Rang			VA/Circuit	1	ea	8,000	
		Clothes Drye			VA/Circuit	1	ea	5,000	
	d)	Water Heater	-	4,500	VA/Circuit	1	ea	4,500	
B4	Namepl	ate Ratings o	f Motors (220.8	B2 (B)(4))					
	1)	Blower Coil F	an	150	VA/Circuit	1	ea	150	
	1)	Exhaust Fan	- Kitchen	20	VA/Circuit	1	ea	20	
	1)	Exhaust Fan	- RR	20	VA/Circuit	2	ea	40	
				F	art (B) Con	nected Lo	oad Total	29,740	
		Pa	rt (B) Demand	Load Total	(100% of 1s	st 10KVA	+ 40% of	remainder)	17,896
C	HEATII	NG AND AIR	CONDITIONII	VG LOAD					
C3	100% o	f Heat Pump	& 65% Suppler	mental Elect	ric Heat (22	20.82 (C)(	3))		
	1)	Heat Pump #	2 (VTACT-24)	1,893	VA/Circuit	1	ea	5,988	
	2)	kW of Electric	c Heat	6	kW	65%			
	,			Р	art (C) Con	nected Lo	oad Total	5,988	
					( )			mand Load	5,988
					Tota	l Dwelling	unit Dei	nand Load	23,884
								emand VA	23,884
					Tota	al Amps (	@ 208/120	OV-1Ph-3W	115
		Provide 12	25A Load Co	enter & Fo	eed with	125A/2I	P Break	er	

3 Bed / 2 Bath Unit - Feeder Calculation

			3 Bedroom Apartm 208/120V-1Ph-3W		Mounting: Flush Bus Amps: 125 MCB Amps: MLO Other: 10 KAIC 4 Panel is typical for 3BR units					
	Circuit #	Load Description	Conductors	C/B Size	C/B Size	Conductors	Load Description	Circuit #		
1	1	HALLWAY RCPTS	2#12,#12G,1/2"C	20 / 1	20 / 1	2#12, #12G, 1/2"C	KITCHEN/LIVING/HALL LTS	2		
3	3	DISHWASHER/DISPOSAL	2#12, #12G, 1/2"C	20 / 1	20 / 1	2#12, #12G, 1/2"C	CLOTHES WASHER RCPT	4		
3	5	HOOD/MICROWAVE	2#12, #12G, 1/2"C	20 / 1	30 / 2	3#10, #10G, 3/4"C	CLOTHES DRYER	6		
3	7	REFRIGERATOR	2#12, #12G, 1/2"C	20 / 1				8		
3	9	COUNTER TOP RCPTS	2#12, #12G, 1/2"C	20 / 1	40 / 2	3#8, #10G, 1"C	RANGE	10		
3	11	COUNTER TOP/ KITCHEN RCPTS	2#12, #12G, 1/2"C	20 / 1				12		
1	13	LIVING ROOM RCPTS	2#12, #12G, 1/2"C	20 / 1	30 / 2	2#10,#10G,3/4"C	WATER HEATER 'HWH'	14		
	15	HALL BATHROOM	2#12, #12G, 1/2"C	20 / 1	~~	~~~		16		
1	17	MASTER BEDROOM	2#12, #12G, 1/2"C	20/1	45 / 2	2#6,#10G,3/4"C	VTAC	18		
1	19	HALLWAY BEDROOM	2#12, #12G, 1/2"C	20/				20		
	21	KITCHEN EXHAUST 'EF-2'	2#12, #12G, 1/2"C	20 / 1	20 / 1	2#12, #12G, 1/2"C	MASTER BATHROOM	22		
	23	SPACE ONLY			20 / 1	2#12, #12G, 1/2"C	CORNER BEDROOM	24		

## **# PANEL SCHEDULE NOTES BY SYMBOL**

- 1. ARC FAULT CIRCUIT INTERRUPTING (AFCI) TYPE BREAKER.
- 2. CLASS 'A', 5mA RATED GROUND FAULT CIRCUIT INTERRUPTING (GFCI) TYPE
- 3. COMBINATION AFCI/GFCI TYPE BREAKER.
- 4. ELECTRIC PANELS IN UNITS A105, A106, A205, A206, A305, B107, B108, B208, AND B308 SHALL BE 22 KAIC RATED.

	'		2 Bedroom Apartn 208/120V-1Ph-3W	Mounting: Flush Bus Amps: 125 MCB Amps: MLO Other: 10 KAIC Panel is typical for 2BR units						
	Circuit #	Load Description	Co nduct o rs	C/B Size	C/B Size	Conductors	Load Description	Circuit #		
1	1	HALLWAY RCPTS	2#12, #12G, 1/2"C	20 / 1	20 / 1	2#12, #12G, 1/2"C	KITCHEN/LIVING/HALL LTS	2	1	
3	3	DISHWASHER/DISPOSAL	2#12, #12G, 1/2"C	20 / 1	20 / 1	2#12, #12G, 1/2"C	CLOTHES WASHER RCPT	4	1	
3	5	HOOD/MICROWAVE	2#12, #12G, 1/2"C	20 / 1	30 / 2	3#10, #10G, 3/4"C	CLOTHES DRYER	6		
3	7	REFRIG ERATOR	2#12, #12G, 1/2"C	20 / 1				8	2	
3	9	COUNTER TOP RCPTS	2#12, #12G, 1/2"C	20 / 1	40 / 2	3#8, #10G, 1"C	RANG E	10		
3	11	COUNTER TOP/ KITCHEN RCPTS	2#12, #12G, 1/2"C	20 / 1				12	2	
1	13	LIVING ROOM RCPTS	2#12, #12G, 1/2"C	20 / 1	30 / 2	2#10, #10G, 3/4"C	WATER HEATER 'HWH'	14		
	15	BATHROOM	2#12, #12G, 1/2"C	20 / 1				16		
1	17	MASTER BEDROOM	2#12, #12G, 1/2"C	20 / 1	45 / 2	2#6,#10G,3/4"C	VTAC	18		
1	19	HALLWAY BEDROOM	2#12, #12G, 1/2"C	20 / 1				20		
	21	KITCHEN EXHAUST 'EF-2'	2#12, #12G, 1/2"C	20 / 1			SPACE ONLY	22		
	23	S PACE ONLY					SPACE ONLY	24		

Date 7 Pod 24
REVISION:
9-27-2024
ASI#3 10-14-2024

7-17-2024 22-3262 SHEET NO.:

**E6.3** 

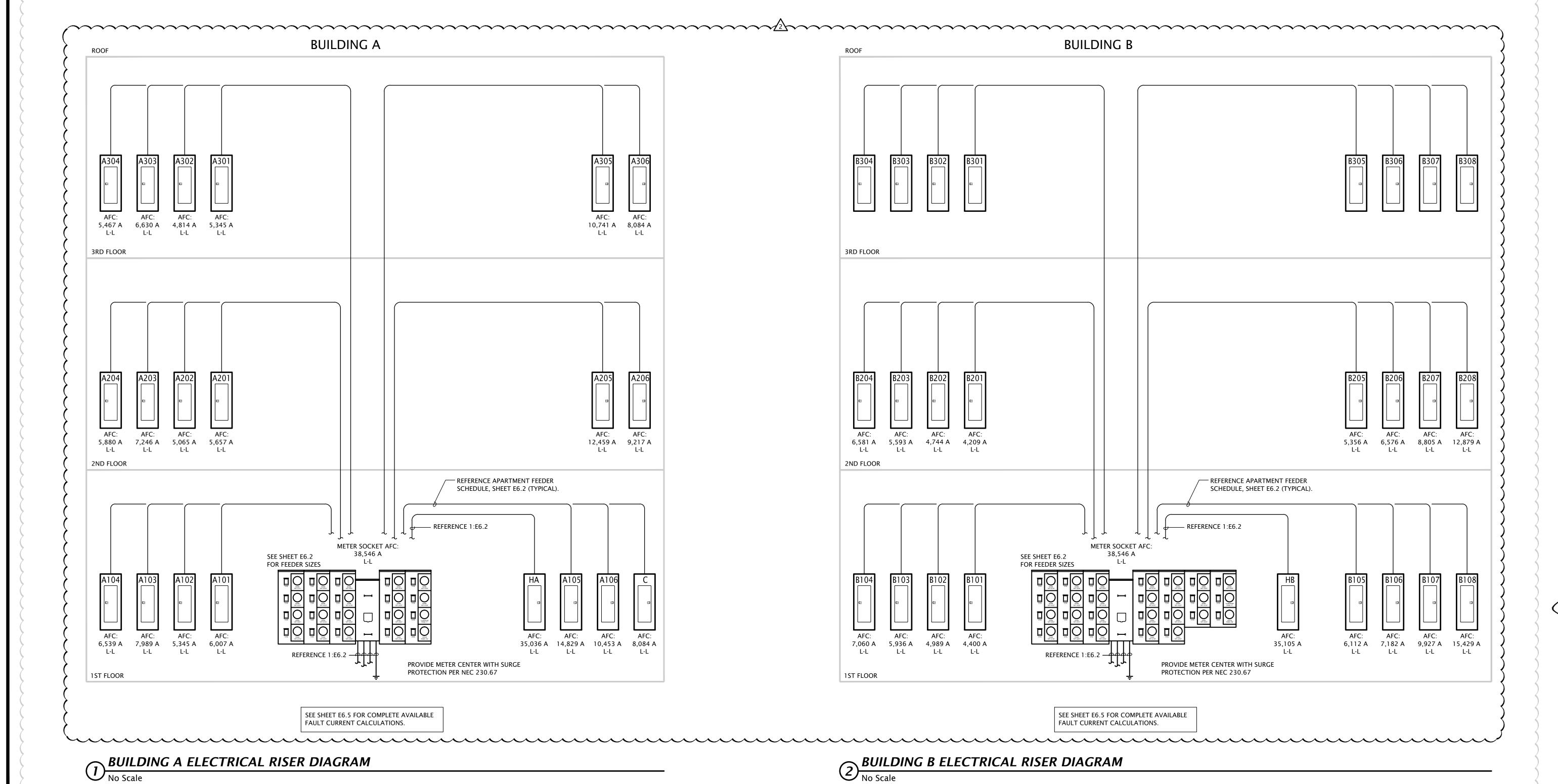


**REVISION:** 

9-27-2024

7-17-2024 22-3262 SHEET NO.:

E6.4



7-17-2024 22-3262

SHEET NO.:

Fault Current Project Name: Reserves at Grand View Heights Project Number: 24037 Designed By: Item Name: SCC Building A -NONE-Calculation of Fault Current Fault SCA Source = Main Bus SCA Available = 38546 Length Units = Feet Motor Load = 39.8 KW Motor SCA = 1401 Motor SCA Treatment = Motor SCA Added to Main Bus System Voltage = 208 System Phase = 1 Phase <u>Transformers</u> Size Pri.V Sec.V %Z SCA,L-L 208 Main-Feeders Cond Cable Size Qty Feet SCA,L-L Name F2 B102 170 4,989 F3 B103 F4 B104 7,060 F5 B105 6,112 F6 B106 7,182 F7 B107 F8 B108 15,429 F9 B201 4,209 F10 B202 4,744 F11 B203 F12 B204 6,581 F13 B205 5,356 F14 B206 6,576 F15 B207 8,805 F16 B208 12,879 216 4,034 F18 B302 4,523 F19 B303 5,288 F20 B304 6,162 F21 B305 5,012 F22 B306 6,065 F23 B307 7,911 F24 B308 F25 PANEL HB 35,105

File Name: Z:\24037 Reserves at Grand View Heights Laramie\Design\Power\SCC BLDG B.edr

Date Created: 8/25/2023 2:43:11 PM Date Modified: 10/30/2024 4:16:09 PM Source: EDR, Electrical Designer's Reference

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Fault Current

Project Name: Reserves at Grand View Heights Project Number: 24037

Designed By: Item Name: SCC Building A -NONE-

Calculation of Fault Current Fault SCA Source = Main Bus SCA Available = 38457 Length Units = Feet Motor Load = 39.8 KW Motor SCA = 1401 Motor SCA Treatment = Motor SCA Added to Main Bus System Voltage = 208

System Phase = 1 Phase <u>Transformers</u> Size Pri.V Sec.V %Z SCA,L-L TA 300KVA 208

	<u>-Feeders</u> Name	Cond	Cable	Size	Qty	Feet	SCA,L-L
F1	A101	None	1/c,CU	1/0	1	137	6,007
F2	A102						•
F3	A103	None	1/c,CU	1/0	1	157	5,345
F4	A104	None	1/c,CU	1	1	78	7,989
F5	A105	None	1/c,CU	1	1	103	6,359
		None	1/c,CU	1	1	33	14,829
F6	A106	None	1/c,CU	1	1	55	10,453
<del>-</del> 9	A201	None	1/c,CU	1/0	1	147	5,657
F10	A202	None	1/c,CU	1/0	1	167	5,065
F11	A203						
F12	A204	None	1/c,CU	1	1	88	7,246
F13	A205	None	1/c,CU	1	1	113	5,880
F14	A206	None	1/c,CU	1	1	43	12,459
		None	1/c,CU	1	1	65	9,217
F17	A301	None	1/c,CU	1/0	1	157	5,345
F18	A302	None	1/c,CU	1/0	1	177	4,814
F19	A303	None	1/c,CU	1	1	98	6,630
F20	A304						
F21	A305	None	1/c,CU	1	1	123	5,467
F22	A306	None	1/c,CU	1	1	53	10,741
F25	PANEL HA	None	1/c,CU	1	1	75	8,242
		PVC	1/c,CU	3/0	1	5	35,036
F26	CLUBHOUSE	D) (O	4/- 011	4/0	4	474	0.004

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171 8,084

PVC 1/c,CU 4/0

8/25/2023 2:43:11 PM Date Created: Date Modified: 10/30/2024 4:36:56 PM

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Fault Current

Project Name: Reserves at Grand View Heights Project Number: 24037 Designed By:

Item Name: Service Entrance SCC -NONE-

Calculation of Fault Current Fault SCA Source = Main Bus SCA Available = 47640 Length Units = Feet Motor Load = None

Motor SCA = None Motor SCA Treatment = Motor SCA Not Included

System Voltage = 208 System Phase = 3 Phase <u>Transformers</u>

F2 BUILDING B

Size Pri.V Sec.V %Z SCA,3PH TA 300KVA 208

Main-Feeders Name F1 BUILDING A Cond Cable Size Qty

38,546

File Name: Z:\24037 Reserves at Grand View Heights Laramie\Design\Power\Building Service 3-

38,546

Phase 300kVA Transformer.edr Date Created: 8/25/2023 2:43:11 PM Date Modified: 10/30/2024 4:35:33 PM

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SUBTOTAL LUMENS 4,800

18,384

2,782 5,564

19,086

14,400

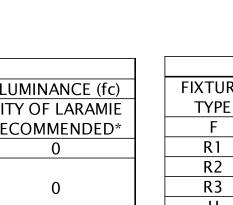
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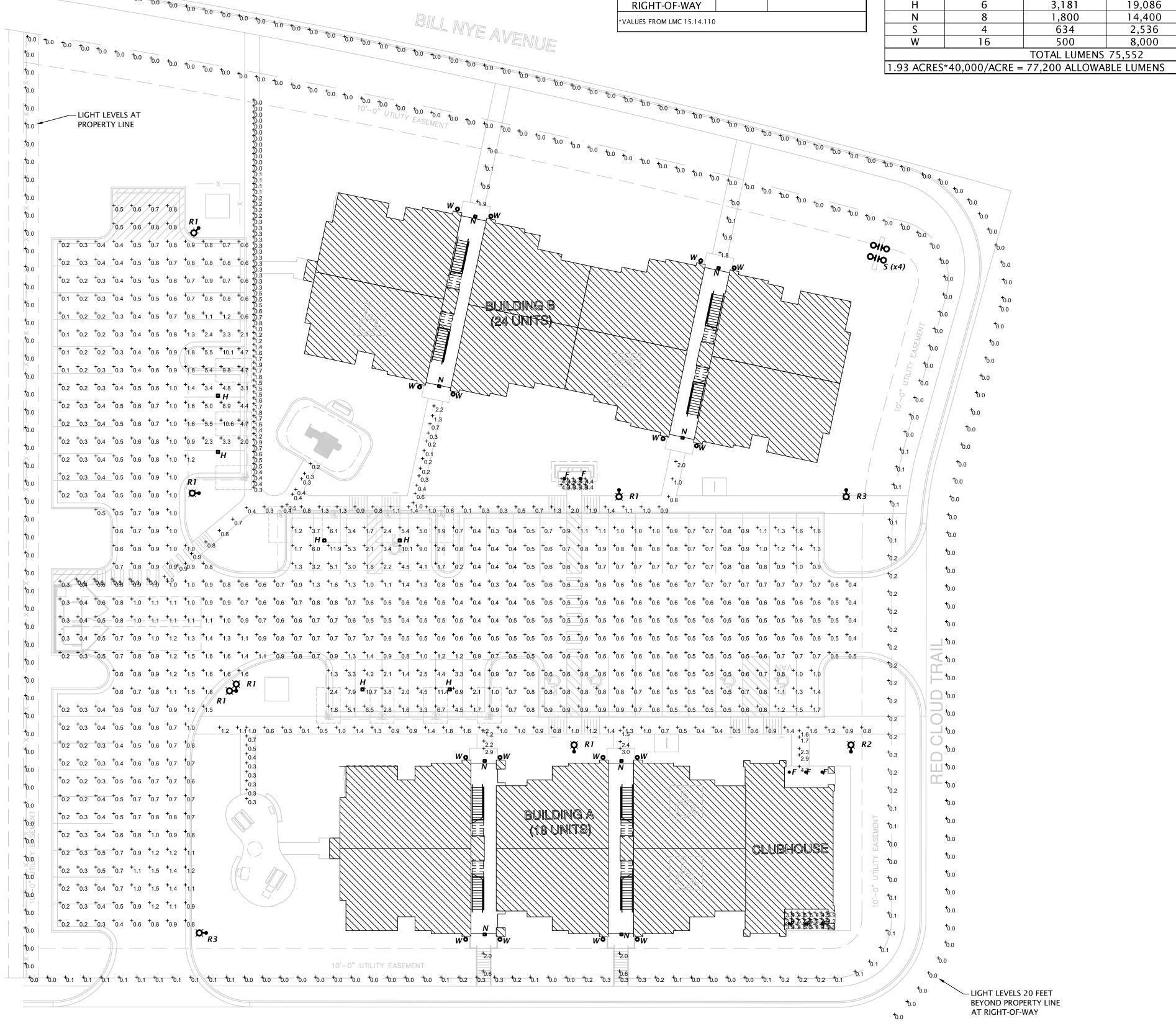
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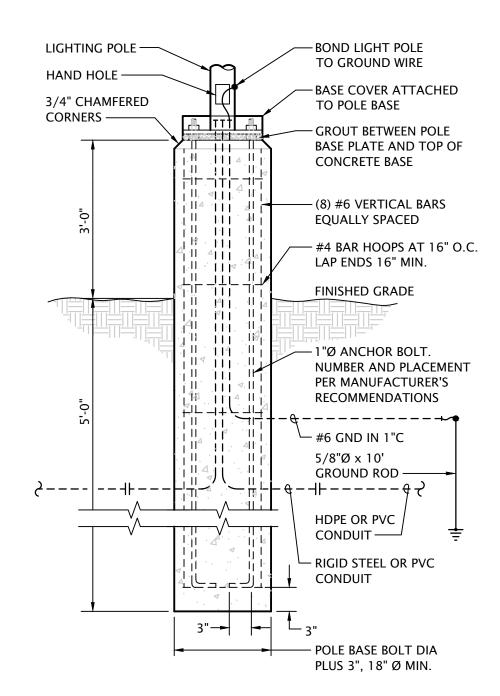


PHOTOME<sup>\*</sup>

PHOTOMETRIC CALC	CULATIONS			ALLOWABLE LUM				
	AVERAGE ILLUMINANCE (fc)			FIXTURE	OHANTITY	FIXTUR		
	DECICN	CITY OF LARAMIE		TYPE	QUANTITY	LUMEN		
	DESIGN	RECOMMENDED*		F	8	600		
PROPERTY LINE	0	0		R1	6	3,064		
20' BEYOND				R2	1	2,782		
PROPERTY LINE AT	0	0		R3	2	2,782		
RIGHT-OF-WAY				Н	6	3,181		
*VALUES FROM LMC 15.14.110	•			N	8	1,800		
77.2023 1.10m EMIC 13.11.110				S	4	634		



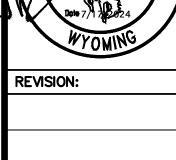
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(2) CONCRETE POLE BASE DETAIL

No Scale

THOTOMETRIC SITE PLAN



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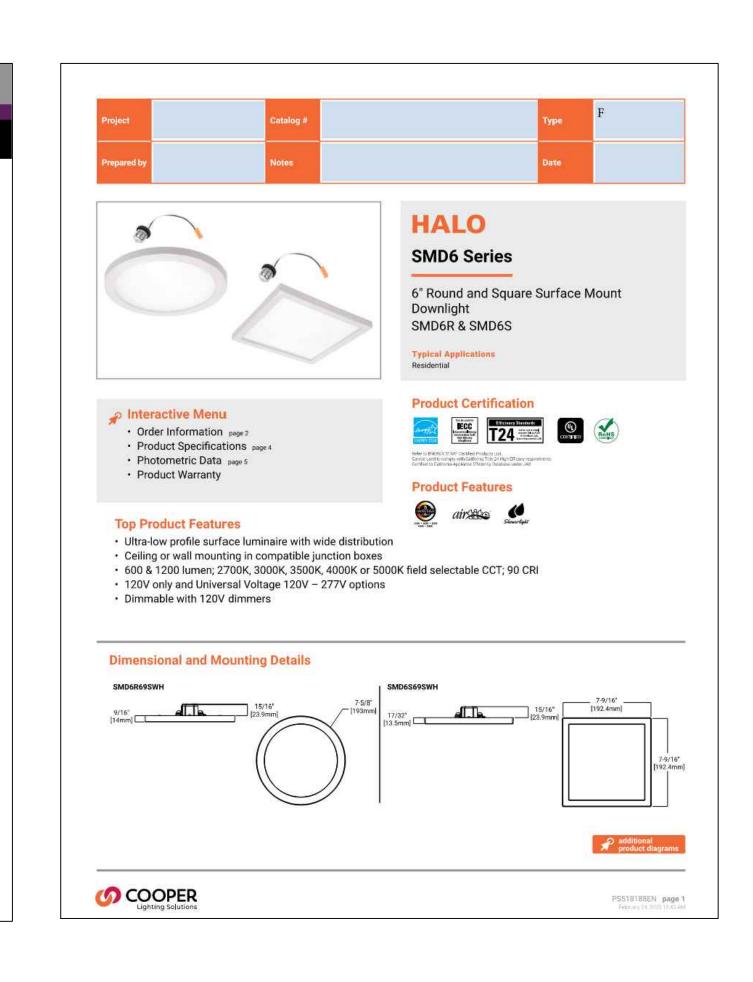
page 1 of 7

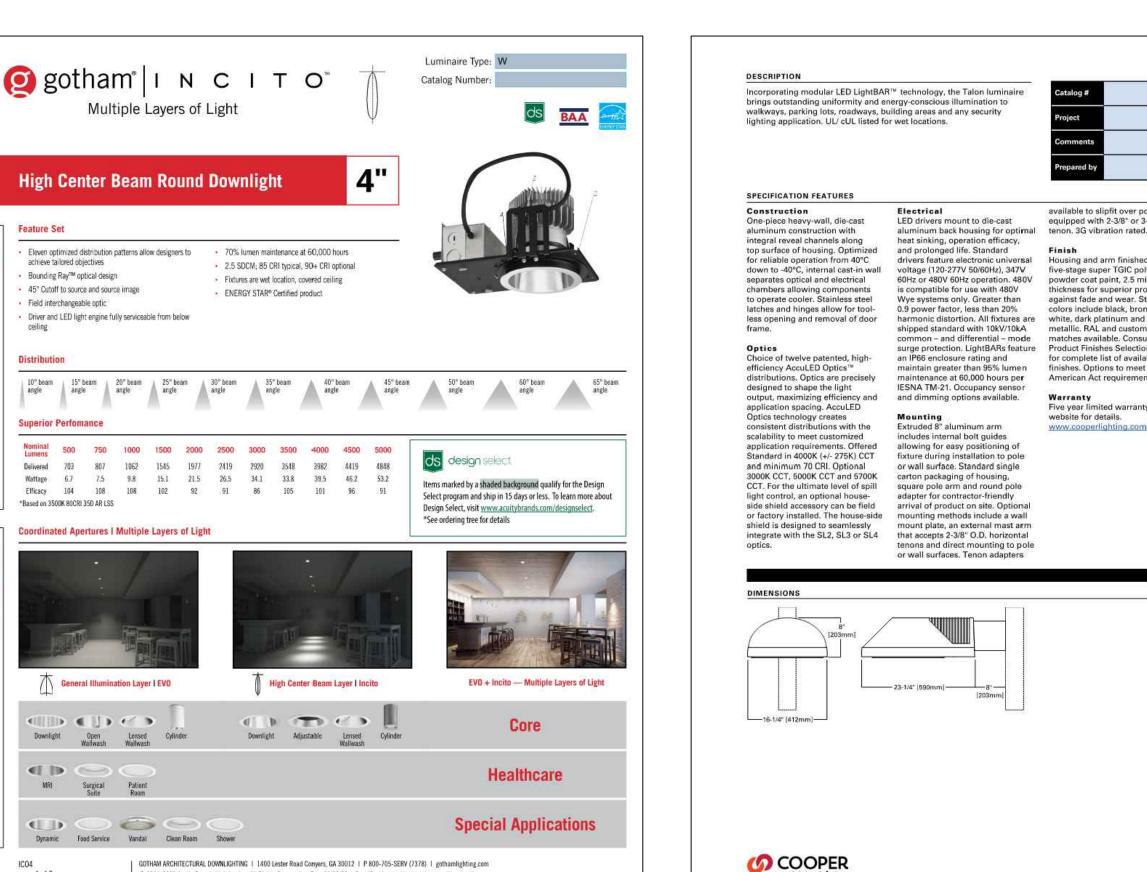
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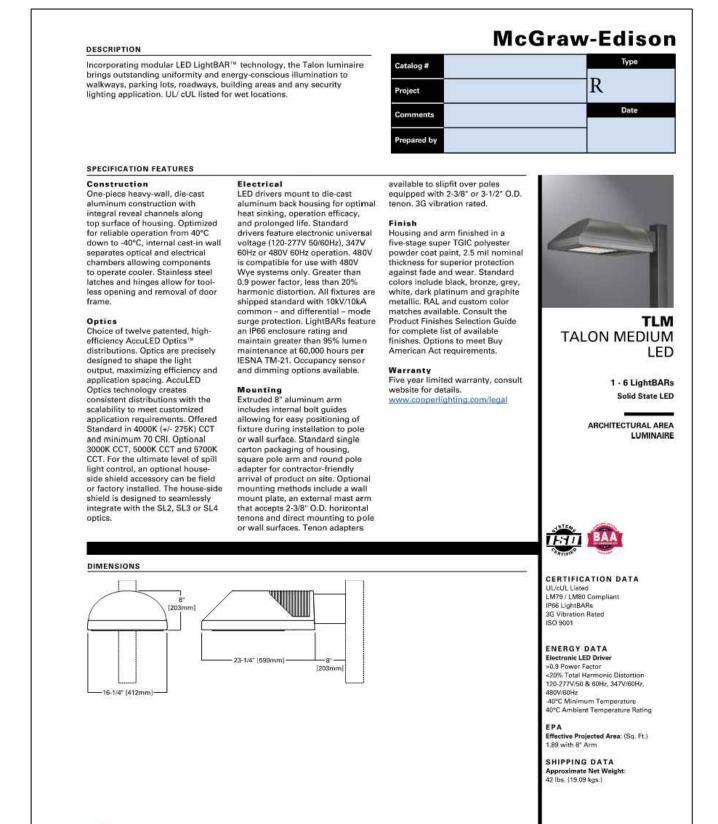
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PS526027EN page 1



MARK	MANUF.	MODEL NUMBER	l	AMP DATA	BALLAST/LED	MOUNTING	FINISH	DESCRIPTION	NOTES
			#	TYPE	DRIVER				
F	HALO	SMD6R-6-930-WH		600 LUMEN 10W LED	STANDARD	Wall	WHITE	6" ROUND SURFACE MOUNT DOWNLIGHT	6
Н	BEACON	LSQ1-25-4K7-UNV		30W LED 3,181 LUMEN	0-10V DIMMING	SURFACE	SELECTED BY ARCHITECT	SQUARE SURFACE MOUNTED ACRYLIC LENS	3,4,5
N	MULE	MERU-LED-ACEM-DB-IH		1800 LUMEN 32W LED	STANDARD	WALL @ 8'-0" AFF	DARK BRONZE	LED GENERAL AND EMERGENCY LIGHT WITH DIE CAST ALUMINUM HOUSING AND COLD WEATHER PACKAGE	2,3
R1	MCGRAW EDISON	TLM-E01-LED-E1-T4		3,064 LUMEN 25W LED	STANDARD	POLE	BLACK	LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH IES TYPE IV DISTRIBUTION	1,3
R12	MCGRAW EDISON	(2) TLM-E01-LED-E1-T4		3,064 LUMEN 25W LED	STANDARD	POLE	BLACK	LED AREA LIGHTS, TWO HEADS MOUNTED AT 90°, FULL CUT-OFF WITH IES TYPE IV DISTRIBUTION	1,3
R2	MCGRAW EDISON	TLM-E01-LED-E1-SLL		2,782 LUMEN 25W LED	STANDARD	POLE	BLACK	LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH SPILL LIGHT ELIMINATOR LEFT	1,3
R3	MCGRAW EDISON	TLM-E01-LED-E1-SLR		2,782 LUMEN 25W LED	STANDARD	POLE	BLACK	LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH SPILL LIGHT ELIMINATOR RIGHT	1,3
S	LUMIERE	303-S1-LEDB1-400K-UNV-T5X-BK-12		634 LUMEN 8.5W LED	FIXED OUTPUT DRIVER	SIGN	BLACK	WALL MOUNTED LED SIGN LIGHT WITH 12" ARM	3
W	GOTHAM	ICO4-40/05/AR/LSS10D		500 LUMEN 7 W LED	STANDARD	SURFACE	WHITE	4" DIAMETER LED WALL WASH DOWNLIGHT WITH 10° BEAM ANGLE	6

NERAL:		
	١E	ERAL:
• Fixture/pole assemblies shall be rated for 100mph wind loads. Provide wind dampeners when recommended by the manufacturer.	_	Fixture /pole assemblies shall be rated for 100mph wind loads. Provide wind dampeners when recommended by the manufacturer

• All fixtures shall be provided with multi-volt driver capable of operating between 120V-277V • All exterior fixtures shall be 4000K color temperature

1. Provide fixture/pole assembly with mounting arm and 15' round straight steel pole, black to match fixture.

2. Provide with test switch, status indicator and rechargeable nickel-cadmium battery for 90 minutes of emergency power

3. Fixture shall be U.L. listed for wet locations.

4. Provide with integrally occupancy sensor.

NOTES:

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5. Provide with emergency battery backup.

6. Fixture shall be U.L. listed for damp locations.

		#	TYPE	DRIVER				
HALO	SMD6R-6-930-WH		600 LUMEN 10W LED	STANDARD	Wall	WHITE	6" ROUND SURFACE MOUNT DOWNLIGHT	6
BEACON	LSQ1-25-4K7-UNV		30W LED 3,181 LUMEN	0-10V DIMMING	SURFACE	SELECTED BY ARCHITECT	SQUARE SURFACE MOUNTED ACRYLIC LENS	3,4,5
MULE	MERU-LED-ACEM-DB-IH		1800 LUMEN 32W LED	STANDARD	WALL @ 8'-0" AFF	DARK BRONZE	LED GENERAL AND EMERGENCY LIGHT WITH DIE CAST ALUMINUM HOUSING AND COLD WEATHER PACKAGE	2,3
MCGRAW EDISON	TLM-E01-LED-E1-T4		3,064 LUMEN 25W LED	STANDARD	POLE	BLACK	LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH IES TYPE IV DISTRIBUTION	1,3
MCGRAW EDISON	(2) TLM-E01-LED-E1-T4		3,064 LUMEN 25W LED	STANDARD	POLE	BLACK	LED AREA LIGHTS, TWO HEADS MOUNTED AT 90°, FULL CUT-OFF WITH IES TYPE IV DISTRIBUTION	1,3
MCGRAW EDISON	TLM-E01-LED-E1-SLL		2,782 LUMEN 25W LED	STANDARD	POLE	BLACK	LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH SPILL LIGHT ELIMINATOR LEFT	1,3
MCGRAW EDISON	TLM-E01-LED-E1-SLR		2,782 LUMEN 25W LED	STANDARD	POLE	BLACK	LED AREA LIGHT, SINGLE HEAD FULL CUT-OFF WITH SPILL LIGHT ELIMINATOR RIGHT	1,3
LUMIERE	303-S1-LEDB1-400K-UNV-T5X-BK-12		634 LUMEN 8.5W LED	FIXED OUTPUT DRIVER	SIGN	BLACK	WALL MOUNTED LED SIGN LIGHT WITH 12" ARM	3
GOTHAM	ICO4-40/05/AR/LSS10D		500 LUMEN 7 W LED	STANDARD	SURFACE	WHITE	4" DIAMETER LED WALL WASH DOWNLIGHT WITH 10° BEAM ANGLE	6
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