1010 NW WARD RD
LEE'S SUMMIT, MO 64086

OWNER
GENESIS COMPANIES
4420 MADISON AVE
KANSAS CITY, MO 64111

BUILDING DESCRIPTION

FOUR STORY SLAB-ON-GRADE, WOOD FRAMED BUILDING WITH COMPOSITION SHINGLE ROOF. AUTOMATIC SPRINKLER SYSTEM IS PROVIDED PER NFPA 13 STANDARDS. BUILDING IS USED FOR GUESTROOMS, REGISTRATION, LAUNDRY AND MECHANICAL AND ELECTRICAL ROOMS. STAIR ENCLOSURES ARE PROTECTED BY A TWO-HOUR RATED, INTERIOR SEPARATION. ACCESSIBLE ROOMS ARE LOCATED ON THE FIRST THROUGH FOURTH FLOORS. THE ROOFING IS CLASS "B". FIRE DETECTION SYSTEM (DETECTORS, ALARMS & SPRINKLERS ARE INCLUDED)

PROJECT DATA

JOB ADDRESS:

1010 NW WARD RD
LEE'S SUMMIT, MO 64086

ZONING:

BUSINESS

BUILDING FLOOR AREA

GROUND FLOOR	12,835	SF
SECOND FLOOR	12,545	SF
THIRD FLOOR	12,545	SF
FOURTH FLOOR	12,545	SF
GRAND TOTAL	50,470	SF

APPLICABLE CODES:

BUILDING CODE:	2018 INTERNATIONAL BUILDING CODE
MECHANICAL CODE:	2018 INTERNATIONAL MECHANICAL CODE
ELECTRICAL CODE:	2017 NATIONAL ELECTRIC CODE
PLUMBING CODE:	2018 INTERNATIONAL PLUMBING CODE
ENERGY CODE:	2018 INTERNATIONAL ENERGY CONSERVATION CODE
FIRE PROTECTION:	2018 INTERNATIONAL FIRE CODE
ACCESSIBILITY:	ICC A117.1-2009

BUILDING ENVELOPE COMPLIANCE REQUIREMENTS

	DESCRIPTION	IDENTIFICATION
WALLS / FLOORS / ROOF		
EXTERIOR WALLS	BATT INSULATION	MIN. R-19, FACED INSULATION
INTERIOR WALLS	BATT INSULATION	MIN. R-11, UNFACED INSULATION
ROOF	BLOWN-IN INSULATION	MIN. R-60, CAVITY FACED INSULATION
SLAB ON GRADE	NO INSULATION	R-5
DOORS / WINDOWS		
EXT. SWING DOOR	U FACTOR	U-2.2, OPAQUE HOLLOW METAL
EXT. ENTRANCE - STOREFRONT	U FACTOR/ SHGC / VT	U-.60 / SHGC .27 / VT .69
STOREFRONT WINDOWS	U FACTOR/ SHGC/ VT	U-.65 / SHGC .27 / VT .69
VINYL WINDOWS (GUESTROOM)	U FACTOR/ SHGC/ VT	U-.45 / SHGC .27 / VT .69

GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC REPRESENTATIONS OF A FINISHED PRODUCT. CONSULT THE DRAWINGS AND MANUFACTURERS' SPECIFICATIONS FOR DETAILED INSTALLATION, CONSTRUCTION METHODS, SPECIFICATIONS AND ADDITIONAL MATERIALS AND COMPONENTS REQUIRED FOR A COMPLETED PROJECT. THE DRAWINGS IN COMBINATION WITH THE SPECIFICATIONS, MANUFACTURERS' SPECIFICATIONS AND INSTRUCTIONS AND BUILDING CODES DESCRIBE A FINISHED PRODUCT. ALL WORK IS TO CONFORM TO ALL LOCAL, STATE AND NATIONAL BUILDING CODES. NOTIFY THE ARCHITECT PRIOR TO CONSTRUCTION OF ANY DISCREPANCIES.
2. CONTRACTOR TO COORDINATE THE INSTALLATION OF ALL OWNER'S EQUIPMENT.
3. ALL WORK IS TO BE CONSIDERED NEW AND TO BE PROVIDED AND INSTALLED. VERIFY ANY DISCREPANCIES WITH THE ARCHITECT PRIOR TO BIDDING AND CONSTRUCTION.
4. ALL SCHEDULES, IF SHOWN, ARE FOR THE CONVENIENCE OF THE CONTRACTOR. SCHEDULES DO NOT LIST ALL THE ITEMS CONTAINED IN THE DRAWINGS OR MANUFACTURERS' SPECIFICATIONS. CONTRACTOR TO VERIFY COORDINATION OF ALL ITEMS IN ALL SCHEDULES.
5. ALL ENTRANCES TO THE BUILDING ARE TO MEET ACCESSIBILITY REQUIREMENTS ADOPTED BY THE JURISDICTION HAVING AUTHORITY, INCLUDING BUT NOT LIMITED TO MAXIMUM THRESHOLD ELEVATION AND MAXIMUM SLOPE AT LANDINGS.
6. THE CONSTRUCTION SITE AND THE WORK IS TO BE AVAILABLE TO THE OWNER AND OWNER'S REPRESENTATIVES AT ALL TIMES.
7. ALL ACCESSIBLE RAMPS ARE TO HAVE A MAXIMUM OF 1 TO 12 SLOPE AND TO MEET LOCALLY ADOPTED REQUIREMENTS FOR PEDESTRIAN RAMPS AS DETERMINED FOR A CITY STREET.
8. FIELD VERIFY ALL SITE CONDITIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
9. ALL EXT. DIMENSIONS ARE FROM FACE OF SLAB TO FACE OF SLAB. INTERIOR DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD UNLESS OTHERWISE NOTED.
10. THIS PROJECT IS A NEW CONSTRUCTION. THE CONTRACTOR IS TO NOTE THAT NOT ALL CONDITIONS CAN BE REPRESENTED IN THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR IS TO ACCOUNT FOR ALL REASONABLE UNFORESEEN CONDITIONS WHEN SUBMITTING A BID OR PRICING FOR THIS WORK. ALL CONTRACTORS AND SUBCONTRACTORS ARE TO FIELD VERIFY CONDITIONS PRIOR TO THE SUBMITTAL OF A BID OR PRICE FOR THEIR WORK.
11. SUBMIT SAMPLES FOR REVIEW AND APPROVAL PER THE SPECIFICATIONS.
12. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES.
13. ALL ABBREVIATIONS ARE STANDARDIZED. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE UNDERSTANDING OF ALL ABBREVIATIONS ON ALL DRAWINGS AND MANUFACTURERS' SPECIFICATIONS PRIOR TO CONSTRUCTING THIS PROJECT.
14. ALL WORK SHALL BE DONE IN A SAFE AND WORKMANLIKE MANNER AND IN STRICT ACCORDANCE WITH THE LOCAL AND/OR STATE (IF APPLICABLE) BUILDING CODES, NATIONAL ELECTRIC CODE, ADA-ADAAGS AND OTHER ADOPTED ACCESSIBILITY STANDARDS, OSHA, AND ALL APPLICABLE CODES, REGULATIONS, ORDINANCES AND AUTHORITIES HAVING JURISDICTION.
15. EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE HIM OF ANY RESPONSIBILITY FOR PERFORMING HIS WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.
16. THE CONTRACTOR SHALL KEEP THE WORK AREA CLEAN AND FREE OF DEBRIS AND REMOVE ALL TRASH AND DEBRIS FROM THE CONSTRUCTION AREA DAILY. NO FLAMMABLE MATERIALS OR LIQUIDS MAY BE STORED IN THE EXISTING BUILDING OR IN ANY NEW ADDITION. MUD AND DEBRIS TRACKED ONTO OWNER PAVING OR CITY STREETS TO BE CLEANED IMMEDIATELY.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY ORDERING OF MATERIALS TO PROHIBIT DELAYS OF THE CONSTRUCTION SCHEDULE OF THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE DELIVERY OF MATERIALS IN A TIMELY MANNER.
18. THE GENERAL CONTRACTOR SHALL RESPOND TO ALL REQUIREMENTS OF THE ARCHITECT AND CONSULTANTS FOR VERIFICATIONS, RESPONSES, AND SUBMISSIONS.
19. THE PROJECT SPECIFICATIONS ARE A PART OF THESE CONSTRUCTION DOCUMENTS AND MUST BE REFERRED TO FOR COMPLETE DOCUMENTATION.
20. GC TO FOLLOW CONSTRUCTION DOCUMENTS AS DETAILED AND DIMENSIONED. DO NOT SCALE DRAWING.
21. ANY DISCREPANCY WITH THE EXISTING SITE CONDITIONS AND/OR THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION AND INSTRUCTION. IF DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND EXISTING FIELD CONDITIONS, CONTACT THE CONSTRUCTION MANAGER AND THE ARCHITECT IMMEDIATELY TO DETERMINE WHAT ACTION SHOULD BE TAKEN TO MATCH EXISTING CONDITIONS. THE BEGINNING OF CONSTRUCTION BY THE GENERAL CONTRACTOR MEANS ACCEPTANCE OF THE EXISTING CONDITIONS.
22. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES (WHETHER SHOWN OR NOT) PRIOR TO THE SUBMISSION OF HIS BID OR THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER AND ARCHITECT OF THE DISCOVERY OF EXISTING UTILITIES NOT SHOWN OR NOTED ON DRAWINGS.
23. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND DEPTHS OF UNDERGROUND UTILITY SERVICES PRIOR TO ANY EXCAVATION.

PROJECT DIRECTORY

ARCHITECT
BRR ARCHITECTURE, INC
8131 METCALF AVE, #300
OVERLAND PARK, KS 66204

CIVIL ENGINEER
OWN, INC
4240 PHILIPS FARM RD, #101
COLUMBIA, MO 65201

STRUCTURAL ENGINEER
BSE STRUCTURAL ENGINEERS, LLC
11320 W. 79TH STREET
LENEXA, KS 66214

MECHANICAL ENGINEER / PLUMBING ENGINEER
ACERTUS CONSULTING GROUP, LLC
11880 COLLEGE BLVD, #475
OVERLAND PARK, KS 66210

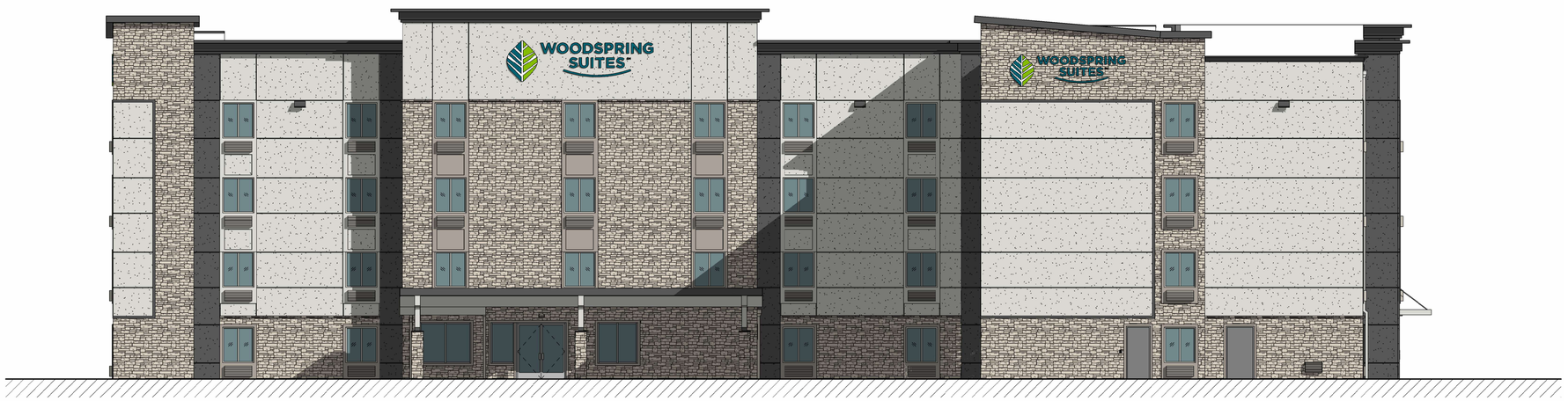
ELECTRICAL ENGINEER
ACERTUS CONSULTING GROUP, LLC
11880 COLLEGE BLVD, #475
OVERLAND PARK, KS 66210

BIDDING CONTACT
RENITA SOMMERS
BUILT BY GENESIS
RENITA@BUILTBYGENESIS.COM

CITY, STATE & FIRE DISTRICT SUBMITTALS

PLANS FOR THE DEFERRED SUBMITTAL ITEMS (LISTED BELOW) SHALL BE SUBMITTED IN A TIMELY MANNER THAT ALLOWS A MINIMUM OF 30 WORKING DAYS FOR INITIAL PLAN REVIEW. ALL COMMENTS RELATED TO THE DEFERRED SUBMITTAL MUST BE ADDRESSED TO THE SATISFACTION OF THE PLAN CHECK DIVISION PRIOR TO APPROVAL OF THE SUBMITTAL ITEMS.

1. SPRINKLER SYSTEM
2. FIRE ALARM SYSTEM
3. ROOF WOOD TRUSS
4. SIGN PACKAGE



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DRAWING INDEX

brr

Architect of Record:
BRR Architecture, Inc.

8131 METCALF AVE,
SUITE 300
OVERLAND PARK, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By:
JP
Checked By:
JL
Document Date:
08/16/23
Protocycle:
WSS_v5_2023.1 (05/05/23)
Bulletins Through:
WSS_v2_B08

Project No.

31000541

Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB
ARCHITECT
LICENSE NO. 2022000409

BRR ARCHITECTURE, INC.
ARCHITECTURAL CORPORATION
MISSOURI LICENSE NO. ARC 000160

Sheet Title

COVER SHEET

Sheet No.

T1.1

BRR Original printed on recycled paper

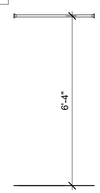
TOILET ACCESSORIES

GC TO PROVIDE BLOCKING IN WALLS FOR SUPPORT OF ALL WALL-HUNG FF&E, ACCESSORIES & EQUIPMENT

TA-1

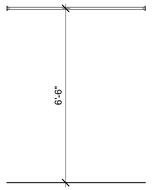
TOILET PAPER HOLDER SURFACE MTD.

TA-2



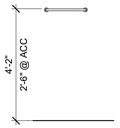
SHOWER CURTAIN ROD SURFACE MTD (TRANSFER AND ROLL-IN SHOWER)

TA-3



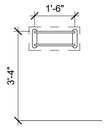
SHOWER CURTAIN ROD SURFACE MTD RADIUS TYPE

TA-4



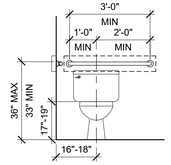
TOWEL BAR SURFACE MOUNTED

TA-4A



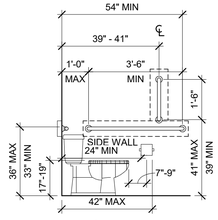
SURFACE-MOUNTED TOWEL SHELF WITH TOWEL BAR (ACCESSIBLE UNITS)

TA-5



GRAB BAR (TOILET/2-WALL) SURFACE MOUNTED

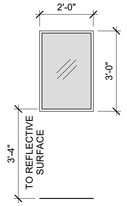
TA-6



GRAB BAR (TOILET/2-WALL) SURFACE MOUNTED

PUBLIC RESTROOM

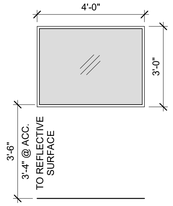
TA-8



DECORATIVE FRAMED MIRROR SURFACE MOUNTED

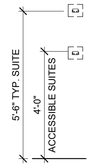
GUEST BATHROOM

TA-8A



DECORATIVE FRAMED MIRROR SURFACE MOUNTED

TA-9



ROBE HOOK SURFACE MOUNTED

GENERAL NOTES

1. PROVIDE SILICONE CAULK AT ALL CABINET, COUNTERTOP, AND BACK SPLASH LOCATIONS WHERE INSTALLATION MEETS A SURFACE. CAULKING MUST BE LEVEL OR SLIGHTLY COVED AT JOINT. UTILIZE BACKER ROD WHERE JOINT EXCEEDS 1/4". TOOL AND FINISH JOINTS. LEAVE NO VISIBLE GAPS. TYPICAL ALL LOCATIONS. COLOR TO MATCH ADJACENT SURFACE.
2. PROVIDE CAULK AT ALL CABINET END PANELS WHERE INSTALLATION MEETS A SURFACE. IF JOINT EXCEEDS 1/8" WIDE INSTALL TRIM MOLDING TO MATCH CABINET FINISH AND CAULK. CAULK COLOR TO MATCH LAMINATED SURFACE.
3. PROVIDE ADDITIONAL FRAMING FOR OUTLETS AS REQUIRED TO MOUNT IN POSITIONS AS SHOWN. (4" MAX HORIZONTAL TOLERANCE).
4. PROVIDE INSTALLATION KIT WITH COOK TOP, CUT OUT COUNTER FOR COOK TOP TO MAX 1/2" TOLERANCE. SECURE CABLE TO BACK OF CABINET BEHIND SHELF. INSTALL SECURELY WITH CLEAR SILICONE.
5. ALL BLOCKING FOR ACCESSIBLE COMPONENTS TO BE WOOD BETWEEN STUDS.
6. PROVIDE VINYL BASE AT BOTTOM OF ALL EXPOSED PORTIONS OF CABINETS AS WELL AS AROUND WALLS. VINYL BASE TO BE FURNISHED FROM ROLL STOCK INSTALLED IN THE LONGEST LENGTHS POSSIBLE WITH INSIDE AND OUTSIDE CORNERS SECURED TIGHTLY TO WALL SURFACES.
7. TRIP LEVER ON ADA TOILETS TO BE LOCATED ON SINK SIDE OF TANK.
8. ALL BLOCKING FOR FURNITURE SHALL BE COORDINATED WITH FURNITURE SUPPLIER SHOP DRAWINGS.
9. NO FLOORING TILE LENGTHS TO BE CUT LESS THAN THE WIDTH OF THE TILE AND NO RIPS LESS THAN HALF THE TILE WIDTH, TYPICAL.
10. REF STRUC DWGS FOR P3B SHEARWALL LOCATIONS (TYP).
11. SEE SHEETS A1.1 AND A1.2 FOR WINDOW LOCATIONS, DIMENSIONS, AND TYPES.
12. PROVIDE CORNER GUARD AT ALL 90 DEGREE CORNERS. REF SPECS
13. HEAVY TIMBER CANOPY TRUSSES TO BE COVERED AND PROTECTED FROM THE ELEMENTS PRIOR TO INSTALLATION. ALL STAMPS, MARKINGS, ETC. TO BE REMOVED FROM SURFACE PRIOR TO STAINING TIMBER TRUSSES.
14. ALL PTAC AND WINDOW FLASHING AT FIRST FLOOR TO HAVE ALL SHARP EDGES REMOVED.
15. CONSTRUCTION SIGN REQUIREMENT:
    THE TEMPLATE MUST BE PRINTED AS 4' x 8' AND IN FULL COLOR. THE GC MAY HAVE ADDITIONAL SIGNAGE WITH THEIR COMPANY LOGO/INFORMATION BUT IT CANNOT INFRINGE ON THE 4' x 8' WOODSPRING SUITES SIGN. THE SIGN SHOULD BE INSTALLED WITHIN 30 DAYS FROM CONSTRUCTION START AND MUST BE REMOVED PRIOR TO OPENING. GRAPHIC TO BE PROVIDED BY WOODSPRING HOTELS.
    NOTE: LOCATION OF CONSTRUCTION SIGN TO BE VERIFIED BY OWNER'S REPRESENTATIVE.

IMPORTANT
1. ALL CALCULATIONS FOR MEMBRANE PROTECTION FOR FIRE RATED WALLS HAVE BEEN MADE ON THE BASIS OF 100 SQUARE INCHES OF OPENING IN 100 SQUARE FEET OF MEMBRANE SURFACE. OUTLET SIZES SHOWN IE. DUPLEX (2X4) OR DOUBLE DUPLEX (4X4) WILL MEET THIS REQUIREMENT. DO NOT SUBSTITUTE LARGER ELECTRICAL BOXES WITH REDUCERS FOR ANY OF THE OUTLETS SHOWN UNLESS VERIFIED WITH LOCAL CODE OFFICIALS AND DOCUMENTED IN WRITING.

ACCESSORIES SCHEDULE

TA = TOILET ACCESSORY

TA #	ACCESSORY DESCRIPTION	BRAND / MODEL
TA-1	TOILET PAPER HOLDER (SURFACE MTD)	LIBERTY / VOISIN EK33
TA-2	STRAIGHT SHOWER CURTAIN ROD (SURFACE MTD)	WINGIT / WOCSNT5
TA-3	5' STD BOW SHOWER ROD (NON-ACCESSIBLE)	WINGIT / WOCONSN5NC
TA-4	TOWEL BAR (SURFACE MTD)	OWNER PROVIDED AND INSTALLED
TA-4A	18" POLISHED CHROME TOWEL HOLDER (SURFACE MTD)	MOEN / 5207-181CH
TA-5	GRAB BAR - TOILET (SURFACE MTD)	BRADLEY / 8120-001420
TA-6	GRAB BAR - TOILET (SURFACE MTD) GRAB BAR - TOILET (SURFACE MTD)	BRADLEY / 8120-001360 BRADLEY / 8120-001180
TA-8	24"x36" DECORATIVE FRAMED MIRROR (SURFACE MTD)	OWNER PROVIDED AND INSTALLED
TA-8A	48"x36" DECORATIVE FRAMED MIRROR (SURFACE MTD)	OWNER PROVIDED AND INSTALLED
TA-9	ROBE HOOK (SURFACE MTD)	TAYMOR / 02-D9402

FINISH SCHEDULE

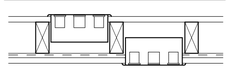
MARK	DESCRIPTION	COMMENTS
CPT-1	SHAW INC. CORRESPOND TILE 5T353 - 52516 "TOGETHER" (24"X24)	CORRIDORS (QUARTER TURN)
FRP-1	KOROGARD - "RELAXED GRAY" (5A) - P1 DUNE TEXTURE - LENO WEAVE FINISH - ASTM E-84	ALL PUBLIC SPACES KITCHENETTE BACKSPLASH
LVT-1	SHAW HARD SURFACE - SOLITUDE #0648V - COLOR "48506 SMOKE" (6"X48")	ALL PUBLIC SPACES (ASHLAR), LOBBY (HERRINGBONE) ACCEPTABLE ALTERNATE FOR CORRIDORS; VERIFY WITH OWNER
LVT-2	KARNDEAN LOOSELAY K TRADE "SICILIA LLP 142" (41"X10")	GUESTROOMS (ASHLAR)
PL-1	PLASTIC LAMINATE - WILSONART 8201-K-12 "GREY ELM"	FF&E CASEWORK
PL-2	FORMICA 933-58 "MISSION WHITE"	WINDOW SILLS
PL-3	PLASTIC LAMINATE - WILSONART 4857-60 "SHADOW ZEPHYR"	KITCHEN COUNTERTOPS
PL-4	PLASTIC LAMINATE - WILSONART 5023-19 "NIGHTFALL"	LOBBY FRONT DESK FACE, COFFEE BAR CASEWORK
PT-1	SW7065 "ARGOS"	PRIMARY RECEPTION, LOBBY, ELEVATOR LOBBY, STAFF/GUEST LAUNDRY, PUBLIC RESTROOM, FITNESS CENTER, CORRIDOR WALL COLOR, TRAINING
PT-2	SW9633 "SILVER LAKE"	ACCENT WALLS: GUESTROOM WALL, GUEST BATHROOM WALL
PT-3	SW7611 "TRANQUIL AQUA"	ACCENT WALLS: CORRIDOR WALL, PUBLIC RESTROOM, GUEST LAUNDRY, FITNESS
PT-4	SW7636 "ORIGAMI WHITE"	PRIMARY GUESTROOM WALL COLOR, CEILINGS THROUGHOUT
RF-1	ECOSURFACES - ECOFIT 8MM (3.2MM WEAR LAYER OVER 5MM BACKING) - 1213 ACTION! (ROLLS 4'X25')	FITNESS FLOORING
WB-1	SHAW - 4" COVE WALL BASE - 168CA - 40 "CLAY"	THROUGHOUT UNLESS OTHERWISE NOTED

NOTE: REFER TO SPECIFICATIONS FOR "NATIONAL ACCOUNT PRICING AND CONTACT INFORMATION"

FIRE EXTINGUISHER CAB DETAIL

2 — 1 1/2" = 1'-0"

NOTE: WHEN INSTALLING ELECTRICAL OUTLET BOXES IN SHEAR WALL, CONTRACTOR SHALL CUT OPENINGS NEATLY, IN ACCORDANCE WITH AND MAINTAINING STRUCTURAL, FIRE AND SOUND RATINGS.



ELECTRICAL WALL BOX LOCATION AND LAYOUT

THE LOCATION OF ELECTRICAL SWITCHES, OUTLETS AND OTHER RECEPTACLE TYPES SHOWN ON THE PLANS AND DETAILS SHOULD BE ADJUSTED SO THAT NO TWO BOXES ARE BACK TO BACK. PLACE AS CLOSE AS POSSIBLE TO LOCATION SHOWN AND PROVIDE APPROPRIATE VERTICAL AND HORIZONTAL BLOCKING SO THAT EACH DEVICE IS ISOLATED WITHIN ITS OWN CAVITY.

REFER TO GENERAL NOTE 3/G1.1

REFER TO DETAIL 1/A7.2 FOR PUTTY PAD INFORMATION WHERE REQUIRED BY AHJ.

OUTLET IN SAME STUD WALL

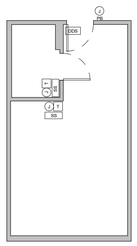
1 — 1/4" = 1'-0"

HEARING IMPAIRED DEVICES

SYMBOL	DEVICE	NOTES
PB	BUTTON FOR DOOR SIGNAL	OUTSIDE DOOR ON STRIKE SIDE, +46" AFF TO ℄ FACTORY LABEL ON COVER PLATE
J T	2-GANG BOX W/ TRANSFORMER FOR DOOR BELL	+84" AFF ALIGNED WITH SMOKE/FIRE STROBE
DDS	DOORBELL DISABLE SWITCH	WALL BEHIND ENTRY DOOR, NEAR LIGHT SWITCH "DOORBELL DISABLE SWITCH" PLAQUE
SS	SMOKE STROBE, REMOTE	COMPATIBLE WITH SMOKE DETECTOR, BATHROOM +84" AFF "SMOKE" LABEL INTEGRAL TO DEVICE

A. PLAN DIAGRAM SHOWS GENERAL CONFIGURATION OF DOORBELL DEVICES - MODIFY AS REQUIRED FOR ACTUAL GUESTROOM CONFIGURATION AND LOCAL REQUIREMENTS.

B. PLAQUES (EXCEPT AS NOTED): PROVIDE AS REQUIRED; PLAQUES SHALL BE BLACK PHENOLIC W/ 1/4" WHITE ENGRAVED LETTERS.



HEARING IMPAIRED DEVICES

3 — 1/8" = 1'-0"

ABBREVIATION LEGEND

@ = AT
# = POUND
& = AND

A
ACC = ACCESSIBLE OR ACCESS
ACOUS INSUL = ACOUSTICAL INSULATION
ACT = ACOUSTICAL CEILING TILE
AFF = ABOVE FINISHED FLOOR
AHU = AIR HANDLING UNIT
ALUM = ALUMINUM
ARCH = ARCHITECT

B
BD = BOARD
BLDG = BUILDING
BL = BLOCKING
BO = BY OWNER
BOF = BOTTOM OF FOOTING/FOUNDATION
BOS = BOTTOM OF STEEL
BRDG = BRIDGING
BRG = BEARING

C
C = CHANNEL
CAB = CABINET
CBD = CEMENT BOARD
CCTV = CLOSED CIRCUIT TELEVISION
CG = CORNER GUARD
CJ = CONSTRUCTION JOINT OR CONTROL JOINT
CL = CENTER LINE
CLR = CLEAR
CMU = CONCRETE MASONRY UNIT
COL = COLUMN
CONC = CONCRETE
CONT = CONTINUOUS
CPT = CARPET OR CARPET TILE
CW = CASEWORK
CT = CERAMIC TILE

D
DBL = DOUBLE
DF = DRINKING FOUNTAIN
DIA = DIAMETER
DIM = DIMENSION
DIST = DISTANCE
DN = DOWN
DR = DOOR
DS = DOWNSPOUT
DW = DISHWASHER
DWGS = DRAWINGS

E
EA = EACH
EIFS = EXTERIOR INSULATION FINISH SYSTEM
EJ = EXPANSION JOINT
EL = ELEVATION
ELEC = ELECTRICAL
ELEV = ELEVATOR
EPS = EXPANDED POLYSTYRENE BOARD (INSULATION)
EQ = EQUAL
EWS = EYE WASH STATION
EXF = EXHAUST FAN
EXIST = EXISTING
EXP = EXPOSED
EXT = EXTERIOR

F
FC = FILE CABINET
FD = FLOOR DRAIN
FDC = FIRE DEPARTMENT CONNECTION
FDR = FIRE DOOR
FE = FIRE EXTINGUISHER
FEC = FIRE EXTINGUISHER CABINET
FF&E = FURNITURE, FIXTURE, AND EQUIPMENT
FIN = FINISH
FLR = FLOOR
FR = FIRE RATED (REFERENCE PARTITION ASSEMBLIES)
FRP = FIBERGLASS REINFORCED PLASTIC
FRT = FIRE RETARDANT TREATED
FT = FEET OR FOOT
FTG = FOOTING
FURN = FURNITURE

G
GA = GAUGE
GI = GALVANIZED IRON
GL = GLASS
GLZ = GLAZING
GR = GUARDRAIL
GYP = GYPSUM
GYP BD = GYPSUM BOARD

H
HB = HOSE BIBB
HC = HANDICAP
HDWR = HARDWARE
HM = HOLLOW METAL
HMF = HOLLOW METAL FRAME
HNDRL = HANDRAIL
HORIZ = HORIZONTAL
HR = HANDRAIL
HT = HEIGHT
HVAC = HEATING, VENTILATING, AND AIR CONDITIONING

J
J-BOX = JUNCTION BOX
JT = JOINT

L
L = ANGLE
LAM = LAMINATE
LDRY = LAUNDRY
LAV = LAVATORY
LED = LIGHT EMITTING DIODE
LF = LINEAR FEET (FOOT)
LIN = LINEAR
LOC = LOCATION
LRG = LARGE
LTG = LIGHTING
LVR = LOUVER

M
MAINT = MAINTENANCE
MAX = MAXIMUM
MECH = MECHANICAL
MEP = MECHANICAL, ELECTRICAL & PLUMBING
MFR = MANUFACTURER
MIN = MINIMUM
MIR = MIRROR
MISC = MISCELLANEOUS
MLWK = MILLWORK
MO = MASONRY OPENING
MR = MOISTURE RESISTANT
MTL = METAL
MW = MICROWAVE

N
N = NORTH
NIC = NOT IN CONTRACT
NO = NUMBER
NOM = NOMINAL
NTS = NOT TO SCALE

O
OCC = OCCUPANT
OF/OI = OWNER FURNISHED/OWNER INSTALLED
OFS = OUTSIDE FACE OF STUD
OS = OVERFLOW SCUPPER
OH = OVERHEAD
OPNG = OPENING

P
PL = PROPERTY LINE
PLAM = PLASTIC LAMINATE
PLBG = PLUMBING
PNL = PANEL
PR = PAIR
PRELIM = PRELIMINARY
PROP = PROPERTY
PT = PAINT

Q
QTY = QUANTITY

R
R = RADIUS
R = RISER
RAF = RESILIENT ATHLETIC FLOORING
RB = RUBBER BASE
RCP = REFLECTED CEILING PLAN
RD = ROOF DRAIN
REC = RECESSED
RECPT = RECEPTACLE
REF = REFERENCE
REFR = REFRIGERATOR
REQ OR REQD = REQUIRE OR REQUIRED
RFS = ROOM FINISHES SCHEDULE
RM = ROOM
RO = ROUGH OPENING

S
S = SOUTH
SAN = SANITARY
SC = SEALED CONCRETE
SCHED = SCHEDULE
SECT = SECTION
SD = SHOWER DRAIN
SHT = SHEET
SIM = SIMILAR
SM = SMALL
SP = STANDPIPE
SPEC = SPECIFICATION
SS = SOLID SURFACE
SST = STAINLESS STEEL
ST = STAIRS
STC = SOUND TRANSMISSION CLASS
STD = STANDARD
STOR = STORAGE
STRUC = STRUCTURAL
SW = SWITCH
SYM = SYMBOL

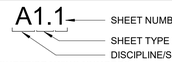
T
T = THERMOSTAT
(T) = TEMPERED GLASS
TEL= TELEPHONE
TEMP = TEMPORARY
TO = TOP OF
TOB = TOP OF BEAM
TOC = TOP OF COLUMN
TOF = TOP OF FOOTING/FOUNDATION
TOS = TOP OF STEEL
TOW = TOP OF WALL
TS = TRANSITION STRIP
TV = TELEVISION
TYP = TYPICAL

U
UCD = UNDERCUT DOOR
UL = UNDERWRITERS LABORATORIES
UNO = UNLESS NOTED OTHERWISE

V
VAN = VANITY
VB = VINYL BASE
VCT = VINYL COMPOSITION TILE
VENT = VENTILATION OR VENTILATOR
VERT = VERTICAL
VEST = VESTIBULE
VIF = VERIFY IN FIELD
VER = VERIFY
VTR = VENT THROUGH ROOF
VWC = VINYL WALL COVERING

W
W = WEST
W/ = WITH
W/O = WITHOUT
WAP = WIRELESS ACCESS POINT
WB = WALL BORDER
WC = WALL COVERING
WD = WOOD
WP = WALL PROTECTION
WPM = WATERPROOF MEMBRANE
WR = WEATHER RESISTANT
WS = WEATHERSTRIP
WSCT = WAINSCOT
WT = WINDOW TREATMENT

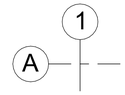
DRAWING SYMBOL LEGEND



SHEET/DRAWING NUMBERS

DISCIPLINE/SERIES
A = ARCHITECTURAL
C = CIVIL
E = ELECTRICAL
ID = INTERIOR DESIGN
L = LANDSCAPE
M = MECHANICAL AND PLUMBING
S = STRUCTURAL

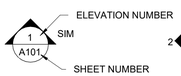
SHEET TYPE SUB SERIES
1 = FLOOR PLANS AND REFLECTED CEILING PLANS
2 = EXTERIOR ELEVATIONS
3 = BUILDING AND WALL SECTIONS
4 = ENLARGED PLANS AND ELEVATIONS PLANS, SECTIONS
5 = CONSTRUCTION DETAILS
7 = INTERIOR DETAILS



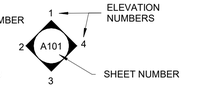
NEW GRIDS

NORTH ARROW

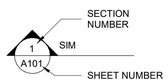
PLAN, ELEVATION, SECTION OR DETAIL TITLE



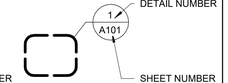
ELEVATION REFERENCE



ELEVATION REFERENCE, MULTIPLE



SECTION REFERENCE



ENLARGED PLAN OR DETAIL REFERENCE

ROOM NAME
101

ROOM NAME & ROOM NUMBER

101

DOOR OR OPENING TAG

A
SEE PARTITION SHEET FOR TAG INFO.

PARTITION TYPE

W

WINDOW TYPE

XXX

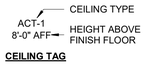
FINISH TAG

K3
XXX

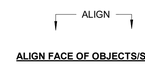
KEYNOTES

1

REVISION IDENTIFICATION

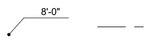


CEILING TAG



ALIGN FACE OF OBJECTS/SURFACES

MATCHLINE REFERENCE



SPOT ELEVATION

FLOOR ELEVATION

HEARING IMPAIRED

HANDICAPPED

Architect of Record:
BRR Architecture, Inc.

8131 METCALF AVE,
SUITE 300
OVERLAND PARK, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By:
JP
Checked By:
JL
Document Date:
08/16/23
Protocycle:
WSS_v5_2023.1 (05/05/23)
Bulletins Through:
WSS_v2_B08

Project No.

31000541

Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB
ARCHITECT
LICENSE NO. 2022000409

BRR ARCHITECTURE, INC.
ARCHITECTURAL CORPORATION
MISSOURI LICENSE NO. ARC 000160

Sheet Title

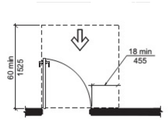
GENERAL INFORMATION

Sheet No.

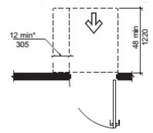
G1.1

BRR Original printed on recycled paper

8/16/2023 12:51:06 PM

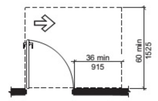


(a) Front Approach, Pull Side

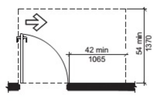


*If both closer and latch are provided

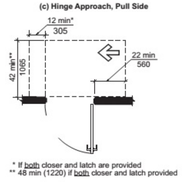
(b) Front Approach, Push Side



(c) Hinge Approach, Pull Side

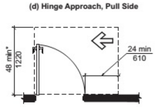


(d) Hinge Approach, Pull Side



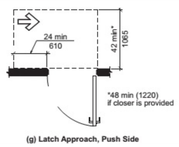
* If both closer and latch are provided
** 48 min (1220) if both closer and latch provided

(e) Hinge Approach, Push Side



*54 min (1370) if closer is provided

(f) Latch Approach, Pull Side



*48 min (1220) if closer is provided

(g) Latch Approach, Push Side

Figure 404.2.3.2
Maneuvering Clearance at Manual Swinging Doors

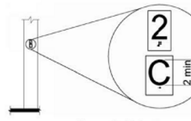


Figure 407.2.3.2
Destination-Oriented Elevator Car Identification

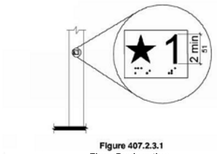
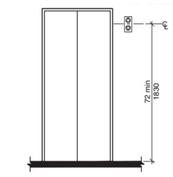
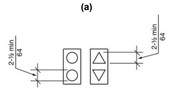


Figure 407.2.3.1
Floor Designation

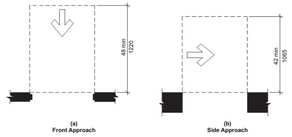


(a)



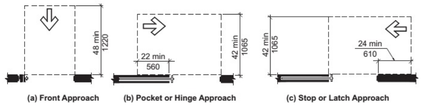
(b)

Figure 407.2.2.2
Elevator Visible Signals



(a) Front Approach (b) Side Approach

Figure 404.2.3.4
Maneuvering Clearance at Doorways without Doors



(a) Front Approach (b) Pocket or Hinge Approach (c) Stop or Latch Approach

Figure 404.2.3.3
Maneuvering Clearance at Sliding and Folding Doors

Control Button Type	Raised Symbol	Braille Message	Proportions (Open circles indicate unused dots within each braille cell)
DOOR OPEN		op"en"	
REAR/SIDE DOOR OPEN		op"en"	
DOOR CLOSE		close	
REAR/SIDE DOOR CLOSE		close	
MAIN		ma"in"	
ALARM		al"ar"m	
PHONE		ph"one"	
EMERGENCY STOP (WHEN PROVIDED) X on face of octagon is not required to be tactile		"st"op	

Table 407.4.7.1.3
Control Button Identification

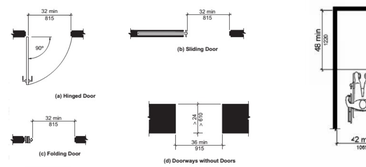


Figure 304.3
Clear Width of Doorways

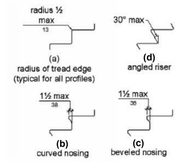


Figure 504.5
Stair Nosings

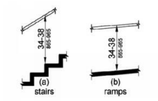


Figure 505.4
Handrail Height

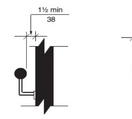


Figure 505.5
Handrail Clearance

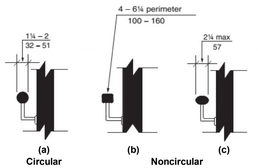


Figure 505.7
Handrail Cross Section

Figure 505.10.2
Top Handrail Extension at Stairs

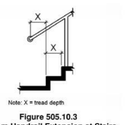
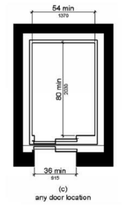
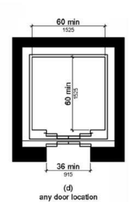


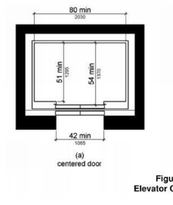
Figure 505.10.3
Bottom Handrail Extension at Stairs



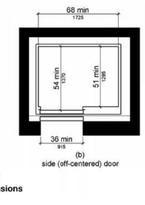
(c) any door location



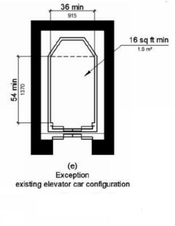
(d) any door location



(a) centered door



(b) side (off-centered) door



(e) Exception existing elevator car configuration

Figure 407.4.1
Elevator Car Dimensions

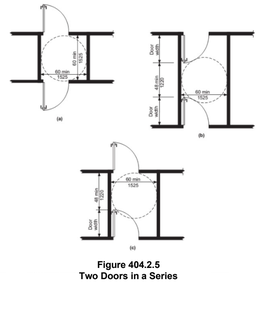


Figure 404.2.5
Two Doors in a Series

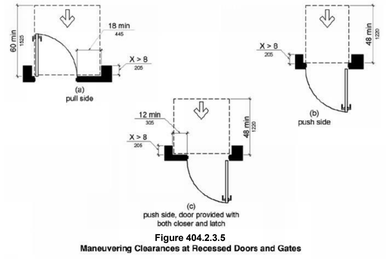


Figure 404.2.3.5
Maneuvering Clearances at Recessed Doors and Gates

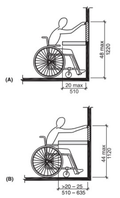


FIGURE 308.2.2
OBSTRUCTED HIGH FORWARD REACH

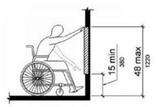


Figure 308.2.1
Unobstructed Forward Reach

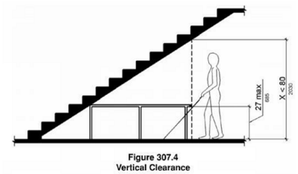


Figure 307.4
Vertical Clearance

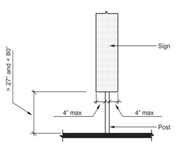


FIGURE 307.3(A)
POST-MOUNTED PROTRUDING OBJECTS

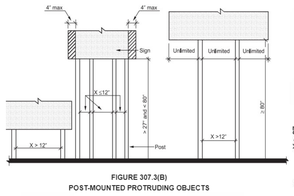


FIGURE 307.3(B)
POST-MOUNTED PROTRUDING OBJECTS

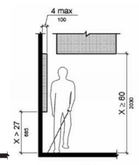


Figure 307.2
Limits of Protruding Objects

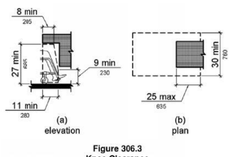


Figure 306.3
Knee Clearance

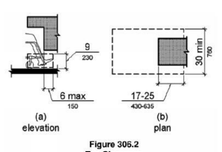


Figure 306.2
Toe Clearance

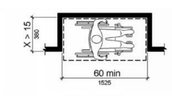


Figure 305.7 (b)
Maneuvering Clearance in an Alcove, Parallel Approach

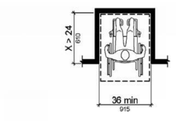


Figure 305.7 (a)
Maneuvering Clearance in an Alcove, Forward Approach

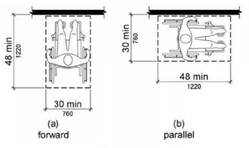


Figure 305.5
Position of Clear Floor or Ground Space

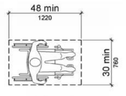


Figure 305.3
Clear Floor or Ground Space

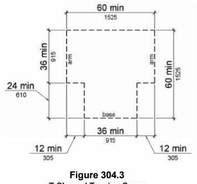


Figure 304.3
T-Shaped Turning Space

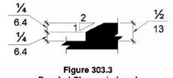


Figure 303.3
Beveled Change in Level

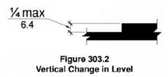


Figure 303.2
Vertical Change in Level

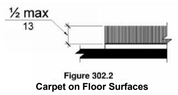


Figure 302.2
Carpet on Floor Surfaces

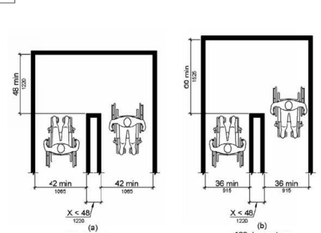


Figure 403.5.1
Clear Width at Turn

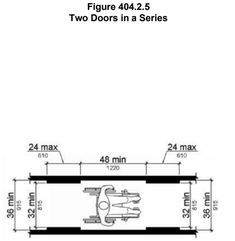


Figure 403.5
Clear Width of an Accessible Route

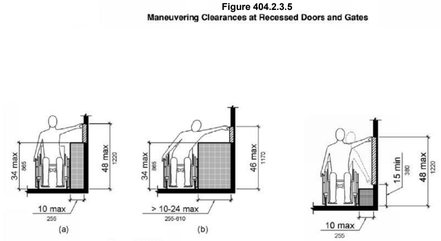


Figure 308.3.2
Obstructed High Side Reach

Figure 308.3.1
Unobstructed Side Reach

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Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By: JP
Checked By: JL
Document Date: 08/16/23
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_B08
Project No. 31000541
Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

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ARCHITECT
LICENSE NO. 2022000409

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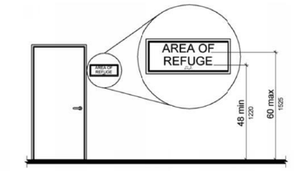


Figure 703.3.10
Height of Tactile Characters Above Finish Floor or Ground

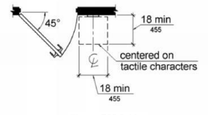


Figure 703.3.11
Location of Tactile Signs at Doors

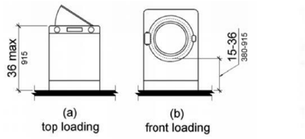


Figure 611.4
Height of Laundry Compartment Opening

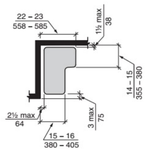


Figure 610.3.2
L-Shaped Shower Compartment Seat

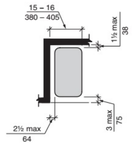


Figure 610.3.1
Rectangular Shower Compartment Seat

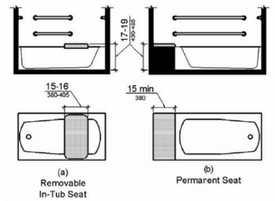


Figure 610.2
Bathtub Seats

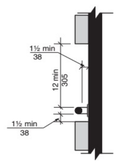


Figure 609.3
Spacing of Grab Bars

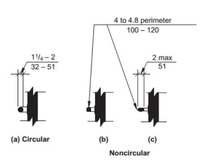
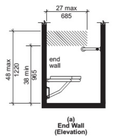


Figure 609.2
Size of Grab Bars



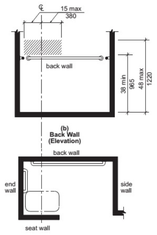


Figure 608.4.3
Alternate Roll-In Type Shower Control and Handshower Location

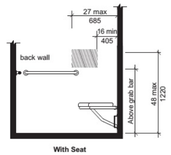


Figure 608.4.2
Standard Roll-In Type Shower Control and Handshower Location

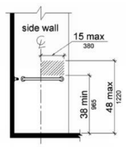


Figure 608.4.1
Transfer Type Shower Compartment Control Location

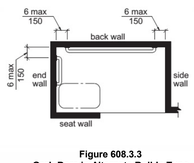


Figure 608.3.3
Grab Bars in Alternate Roll-In Type Showers

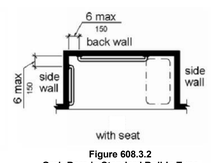


Figure 608.3.2
Grab Bars in Standard Roll-In Type Showers

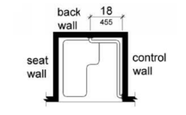


Figure 608.3.1
Grab Bars for Transfer Type Showers

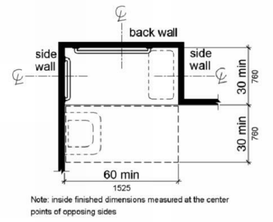


Figure 608.2.2
Standard Roll-In Type Shower Compartment Size and Clearance

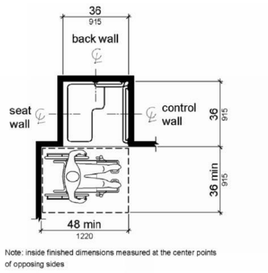


Figure 608.2.1
Transfer Type Shower Compartment Size and Clearance

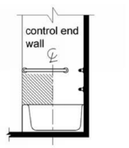
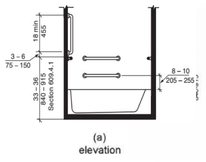


Figure 607.5
Bathtub Control Location



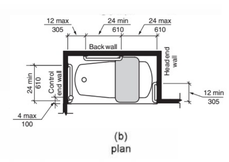
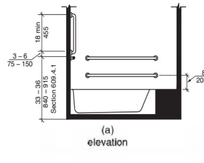


Figure 607.4.2
Grab Bars for Bathtubs with Removable In-Tub Seats



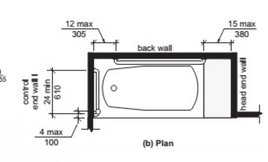


Figure 607.4.1
Grab Bars for Bathtubs with Permanent Seats

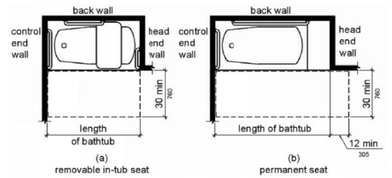


Figure 607.2
Clearance for Bathtubs

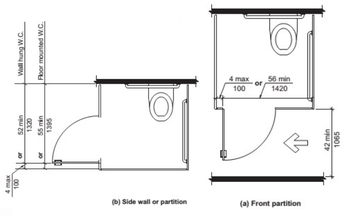
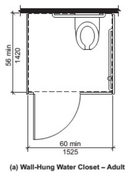


Figure 604.9.3.1
Wheelchair Accessible Compartment Door Openings



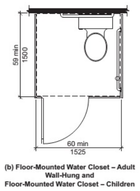


Figure 604.9.2
Wheelchair Accessible Toilet Compartments

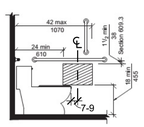


Figure 604.7
Dispenser Outlet Location

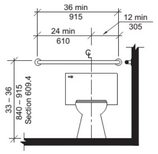


Figure 604.5.2
Rear Wall Grab Bar for Water Closet

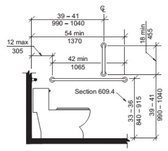


Figure 604.5.1
Side Wall Grab Bar for Water Closet

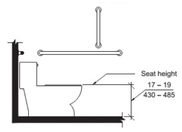


Figure 604.4
Water Closet Seat Height

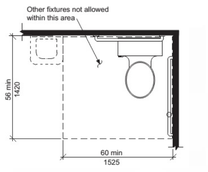


Figure 604.3
Size of Clearance at Water Closets

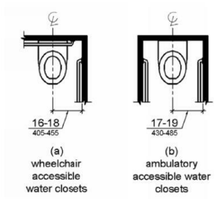


Figure 604.2
Water Closet Location

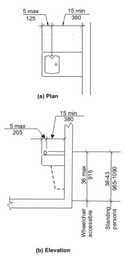


Figure 602.5
Drinking Fountain Spout Location

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Project No.

31000541

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STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

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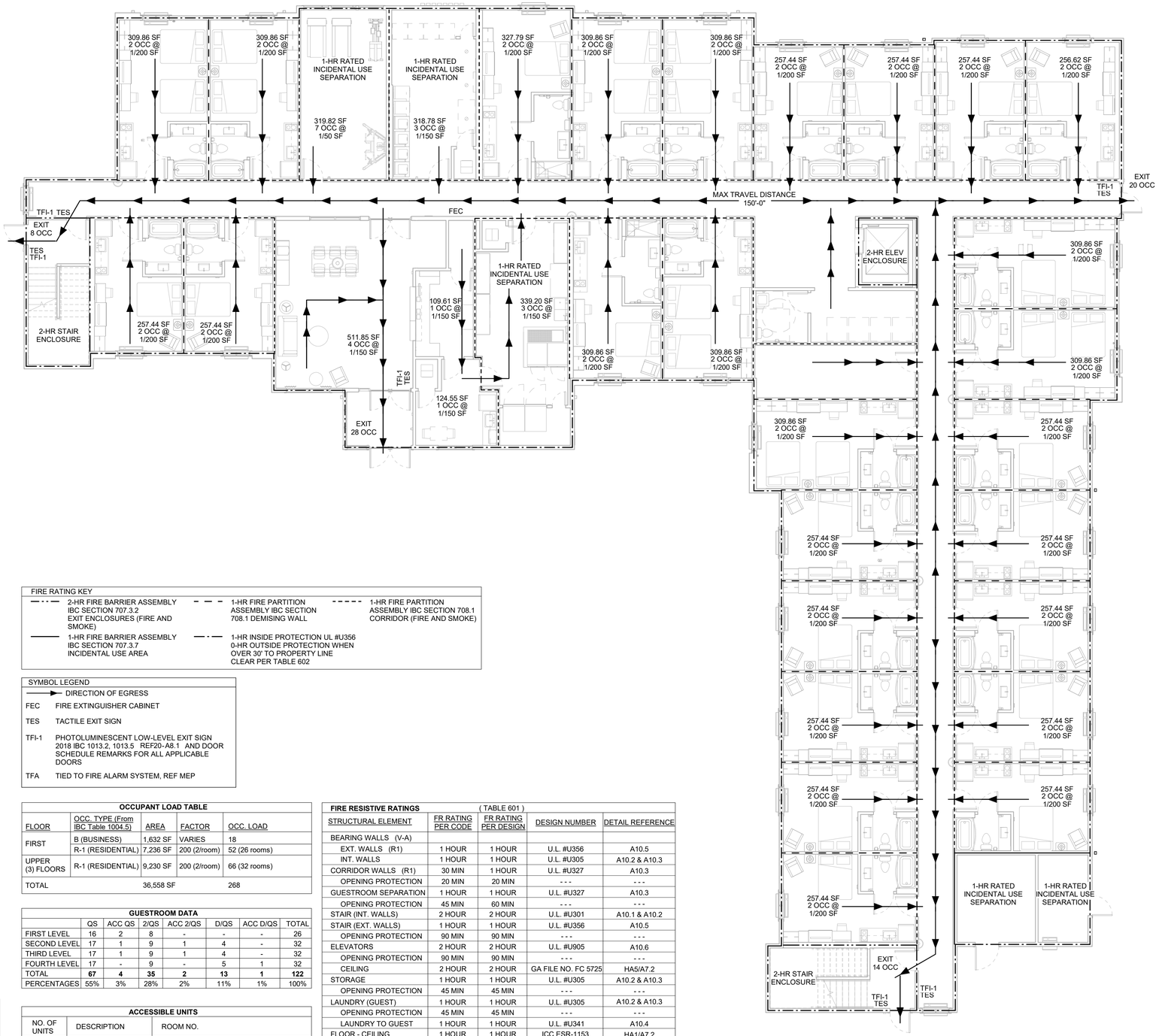

1 FIRST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

DESCRIPTION
WOOD FRAME BUILDING WITH CEMENT BOARD AS EXTERIOR FINISH

TYPE R-1 OCCUPANCY
TYPE V-A CONSTRUCTION
FOUR STORY HOTEL

FIRE PROTECTION FEATURES
BUILDING IS PROVIDED WITH AUTOMATIC SPRINKLER SYSTEM THROUGHOUT DESIGNED IN ACCORDANCE WITH NFPA 13 DRY SPRINKLER IN ATTIC IN LIEU OF DRAFTSTOPPING. PORTABLE FIRE EXTINGUISHERS AT 75' MAX. TRAVEL. COMPLETE FIRE ALARM SYSTEM FOR TOTAL PROJECT. FOR DRY SYSTEM, DRIP DRUMS TO BE LOCATED IN ROOM #140 ON EXTERIOR WALL. DRAIN TO EXTERIOR OR LOCATION APPROVED BY AHJ.

CODE DATA-INTERNATIONAL BUILDING CODE
OCCUPANCY GROUP
SECTION 310.3 OCCUPANCY
R1 OCCUPANCY; (RESIDENTIAL, HOTELS)

BASIC ALLOWABLE HEIGHT & BUILDING AREAS
(TABLE 504.3, 504.4 & 506.2)
CONSTRUCTION TYPE V-A = 4 STORIES/ 70 FT/36,000 S.F./FL.
(BEFORE MODIFICATIONS)

SECTION 506 AREA MODIFICATIONS
506.3 STREET FRONTAGE INCREASE NOT TAKEN

TABLE 601	CONSTRUCTION TYPE: TYPE V-A
SECTION 718	FIREBLOCKING: REQUIRED
SECTION 718.3.2	DRAFTSTOPPING IN FLOORS: EXCEPTION 1: NOT REQD WITH NFPA 13 AUTOMATIC SPRINKLER SYSTEM THROUGHOUT.
SECTION 718.4.2	DRAFTSTOPPING IN ATTICS: EXCEPTION 2: NOT REQD WITH NFPA 13 AUTOMATIC SPRINKLER SYSTEM THROUGHOUT.
SECTION 903.2.8	GROUP R: AUTOMATIC SPRINKLER SYSTEM REQUIRED.
SECTION 915.1.4	CARBON MONOXIDE ALARMS REQUIRED ON THE CEILING OF THE ROOM CONTAINING THE FUEL-BURNING APPLIANCE(S). EXCEPTION 2: NOT REQD IN DWELLING UNITS, SLEEPING UNITS AND CLASSROOMS WHERE A CARBON MONOXIDE DETECTOR IS PROVIDED IN ONE OF THE FOLLOWING LOCATIONS. 2.1: IN AN APPROVED LOCATION BETWEEN THE FUEL-BURNING APPLIANCE OR FUEL-BURNING FIREPLACE AND THE DWELLING UNIT, SLEEPING UNIT OR CLASSROOM. 2.2: ON THE CEILING OF THE ROOM CONTAINING THE FUEL-BURNING APPLIANCE OR FUEL-BURNING FIREPLACE.
SECTION 1011	STAIRWAYS: NO EXCEPTIONS TAKEN
SECTION 1023	INTERIOR EXIT STAIRWAYS AND RAMPS: STAIR ENCLOSURE TO BE MINIMUM OF 2-HR FIRE RATED
SECTION 1023.11	SMOKEPROOF ENCLOSURES: NOT REQD WHERE TOP FLOOR IS LESS THAN 75 FT ABOVE FIRE DEPARTMENT ACCESS. (FLOOR LEVEL OF FOURTH FLOOR IS 28'-6")

MEANS OF EGRESS	CODE REQUIREMENT	PROVIDED
1. NUMBER OF EXITS	2 PER FLOOR	2 PER FLOOR
2. TRAVEL DISTANCE	250 MAX	150' MAX
3. DEAD END CORRIDORS	50 FT MAX w/ SPRINKLER	23' - 0 1/2" MAX
4. CORRIDOR WIDTH	44 INCH MIN	60 INCH MIN
5. SIZE OF EGRESS DOORS	32 INCH CLEAR MIN	34 INCH CLEAR MIN

CONCEALED SPACES (SECTION 718 & NFPA 13)
A. DRAFTSTOPPING FLOORS. REFER TO SECTION 718 AND APPROPRIATE SECTIONS IN NFPA

B. DRAFTSTOPPING ATTICS. REFER TO SECTION 718 SAME REQUIREMENT AS THOSE ABOVE.

C. FIRE BLOCKING WALLS. REFER TO SECTION 718 SAME REQUIREMENT AS THOSE ABOVE.

PENETRATIONS THROUGH FIRE RATED ASSEMBLIES

A. REFER TO SECTION 714

FIRE BLOCKING (CONCEALED SPACES) SECTION 718

A. FIRE BLOCKING (BOTH VERTICAL AND HORIZONTAL)

B. CONCEALED SPACES SHALL BE FIRE STOPPED AS FOLLOWS: -10' INTERVALS BEHIND TRIM FINISHES.

FIRE BLOCKING SHALL CONSIST OF ONE OF THE FOLLOWING: APPROVED NON COMBUSTIBLE MAT., 2" OR (2) 1" LUMBER W/ BROKEN LAP JOINTS, 1 23/32" WOOD STRUCTURAL PANEL W/ JOINTS BACKED BY 23/32" STRUCTURAL PANEL OR 2x LUMBER

ELEVATOR

REQUIRED TO MEET ASME A17.1

BUILDING FLOOR AREA

GROUND FLOOR	12,835 SF
SECOND FLOOR	12,545 SF
THIRD FLOOR	12,545 SF
FOURTH FLOOR	12,545 SF
GRAND TOTAL	50,470 SF

NOTE: SEE PARTITION TAGS AND SCHEDULE FOR COMPLETE LISTING OF UL NUMBERS

ALLOWABLE	ACTUAL
4 STORIES	4 STORIES
36,000 SQ FT PER STORY	12,835 SQ FT (1st) 12,545 SQ FT (2nd, 3rd, 4th)
70 FT HEIGHT	47'- 1" HEIGHT

ACCESSIBLE UNITS

	QS	2/QS	D/QS	TOTAL
NON-ACCESSIBLE	67	35	13	115
ACCESSIBLE TUB	2	2	1	5
ACCESSIBLE ROLL-IN SHOWER	2	-	-	2
TOTAL	**71**	**37**	**14**	**122**

FIRE RATING KEY

- 2-HR FIRE BARRIER ASSEMBLY IBC SECTION 707.3.2 EXIT ENCLOSURES (FIRE AND SMOKE)
- 1-HR FIRE BARRIER ASSEMBLY IBC SECTION 707.3.7 INCIDENTAL USE AREA
- 1-HR FIRE PARTITION ASSEMBLY IBC SECTION 708.1 DEMISING WALL
- 1-HR INSIDE PROTECTION UL #U356 0-HR OUTSIDE PROTECTION WHEN OVER 30' TO PROPERTY LINE CLEAR PER TABLE 602
- 1-HR FIRE PARTITION ASSEMBLY IBC SECTION 708.1 CORRIDOR (FIRE AND SMOKE)

SYMBOL LEGEND

- DIRECTION OF EGRESS
- FEC FIRE EXTINGUISHER CABINET
- TES TACTILE EXIT SIGN
- TFl-1 PHOTOLUMINESCENT LOW-LEVEL EXIT SIGN 2018 IBC 1013.2, 1013.5 REF20-A8.1 AND DOOR SCHEDULE REMARKS FOR ALL APPLICABLE DOORS
- TFA TIED TO FIRE ALARM SYSTEM, REF MEP

OCCUPANT LOAD TABLE

FLOOR	OCC. TYPE (From IBC Table 1004.5)	AREA	FACTOR	OCC. LOAD
FIRST	B (BUSINESS)	1,632 SF	VARIES	18
	R-1 (RESIDENTIAL)	7,236 SF	200 (2/room)	52 (26 rooms)
UPPER (3) FLOORS	R-1 (RESIDENTIAL)	9,230 SF	200 (2/room)	66 (32 rooms)
TOTAL		36,558 SF		268

GUESTROOM DATA

	QS	ACC QS	2/QS	ACC 2/QS	D/QS	ACC D/QS	TOTAL
FIRST LEVEL	16	2	8	-	-	-	26
SECOND LEVEL	17	1	9	1	4	-	32
THIRD LEVEL	17	1	9	1	4	-	32
FOURTH LEVEL	17	-	9	-	5	1	32
TOTAL	**67**	**4**	**35**	**2**	**13**	**1**	**122**
PERCENTAGES	55%	3%	28%	2%	11%	1%	100%

ACCESSIBLE UNITS

NO. OF UNITS	DESCRIPTION	ROOM NO.
5	BATH W/TUB	227, 229, 327, 329, 429
2	ROLL-IN SHOWER	125, 128
13	HEARING IMPAIRED	120, 122, 123, 124, 125, 222, 224, 322, 324, 328, 422, 424, 428

FIRE RESISTIVE RATINGS (TABLE 601)

STRUCTURAL ELEMENT	FR RATING PER CODE	FR RATING PER DESIGN	DESIGN NUMBER	DETAIL REFERENCE
BEARING WALLS (V-A)				
EXT. WALLS (R1)	1 HOUR	1 HOUR	U.L. #U356	A10.5
INT. WALLS	1 HOUR	1 HOUR	U.L. #U305	A10.2 & A10.3
CORRIDOR WALLS (R1)	30 MIN	1 HOUR	U.L. #U327	A10.3
OPENING PROTECTION	20 MIN	20 MIN	- - -	- - -
GUESTROOM SEPARATION	1 HOUR	1 HOUR	U.L. #U327	A10.3
OPENING PROTECTION	45 MIN	60 MIN	- - -	- - -
STAIR (INT. WALLS)	2 HOUR	2 HOUR	U.L. #U301	A10.1 & A10.2
STAIR (EXT. WALLS)	1 HOUR	1 HOUR	U.L. #U356	A10.5
OPENING PROTECTION	90 MIN	90 MIN	- - -	- - -
ELEVATORS	2 HOUR	2 HOUR	U.L. #U905	A10.6
OPENING PROTECTION	90 MIN	90 MIN	- - -	- - -
CEILING	2 HOUR	2 HOUR	GA FILE NO. FC 5725	HA5/A7.2
STORAGE	1 HOUR	1 HOUR	U.L. #U305	A10.2 & A10.3
OPENING PROTECTION	45 MIN	45 MIN	- - -	- - -
LAUNDRY (GUEST)	1 HOUR	1 HOUR	U.L. #U305	A10.2 & A10.3
OPENING PROTECTION	45 MIN	45 MIN	- - -	- - -
LAUNDRY TO GUEST	1 HOUR	1 HOUR	U.L. #U341	A10.4
FLOOR - CEILING	1 HOUR	1 HOUR	ICC ESR-1153 ASSEMBLY B	HA1/A7.2
FLOOR-CEILING @ CORR	1 HOUR	1 HOUR	IBC TABLES: 722.6.2(1) & 722.6.2(2)	HA2/A7.2 & A10.9
ROOF - CEILING @ STAIR	2 HOUR	2 HOUR	GA FILE NO. FC 5725	HA5/A7.2
ROOF - CEILING	1 HOUR	1 HOUR	GA FILE NO. RC 2602	HA4/A7.2
ROOF - CEILING @ 4th FLOOR CORRIDOR	1 HOUR	1 HOUR	U.L. #U305 (IBC 708.4 EXCEPTION 3)	A10.2 & A10.3

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Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By: JP
Checked By: JL
Document Date: 08/16/23
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_808

Project No.

31000541

Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB ARCHITECT
LICENSE NO. 2022000409

BRR ARCHITECTURE, INC.
ARCHITECTURAL CORPORATION
MISSOURI LICENSE NO. ARC 000160

Sheet Title

BUILDING CODE AND FIRST FLOOR LIFE SAFETY PLAN

Sheet No.

LS1.1

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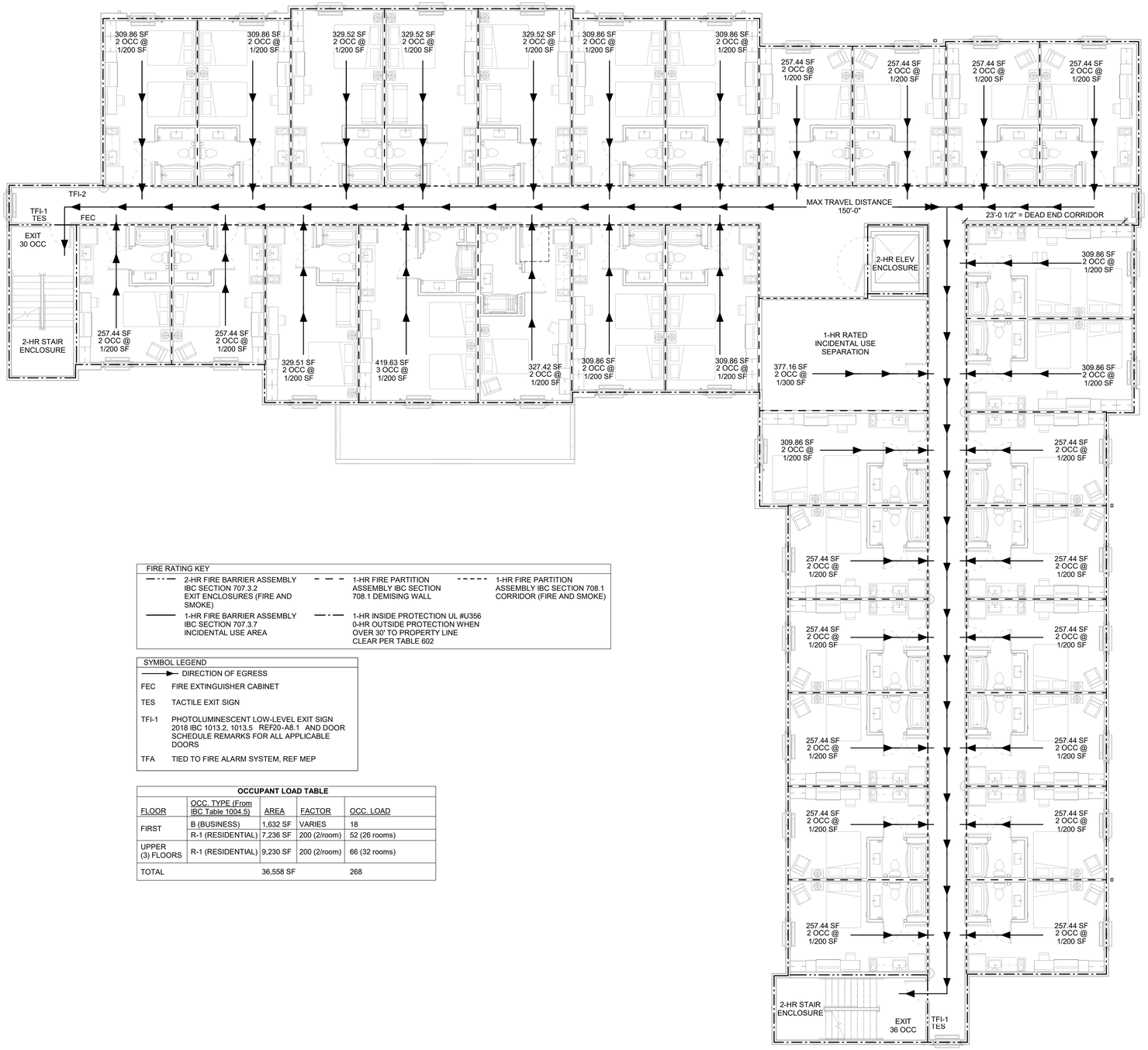

FIRE RATING KEY		
2-HR FIRE BARRIER ASSEMBLY IBC SECTION 707.3.2 EXIT ENCLOSURES (FIRE AND SMOKE)	1-HR FIRE PARTITION ASSEMBLY IBC SECTION 708.1 DEMISING WALL	1-HR FIRE PARTITION ASSEMBLY IBC SECTION 708.1 CORRIDOR (FIRE AND SMOKE)
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SYMBOL LEGEND	
→	DIRECTION OF EGRESS
FEC	FIRE EXTINGUISHER CABINET
TES	TACTILE EXIT SIGN
TFI-1	PHOTOLUMINESCENT LOW-LEVEL EXIT SIGN 2018 IBC 1013.2, 1013.5 REF20-A8.1 AND DOOR SCHEDULE REMARKS FOR ALL APPLICABLE DOORS
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TOTAL		36,558 SF		268

2 TYPICAL UPPER FLOOR LIFE SAFETY PLAN

1/8" = 1'-0"

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brr

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Consultants

Issues & Revisions

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Project Name

WoodSpring Suites

Project Address

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WOODSPRING SUITES

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Checked By:
JL
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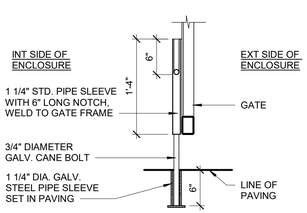
Sheet Title

TYPICAL UPPER FLOOR LIFE SAFETY PLAN

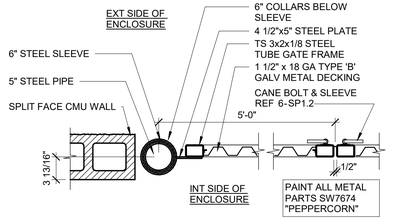
Sheet No.

LS1.2



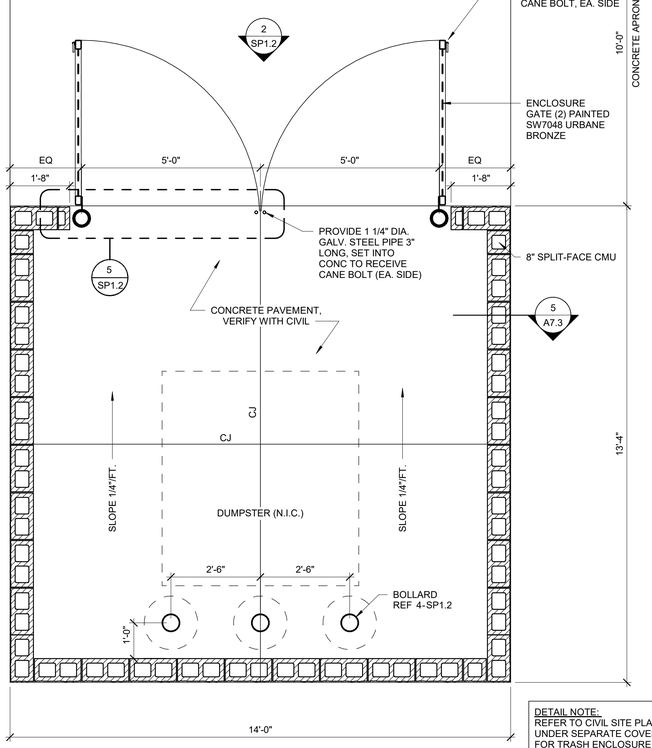
6 LATCH DETAIL

1" = 1'-0"



5 SECTION THROUGH GATE

1" = 1'-0"

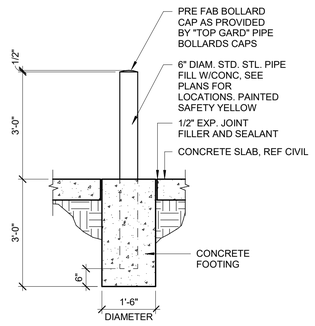


DETAIL NOTE:
REFER TO CIVIL SITE PLAN, UNDER SEPARATE COVER, FOR TRASH ENCLOSURE LOCATION.

1 TRASH ENCLOSURE PLAN

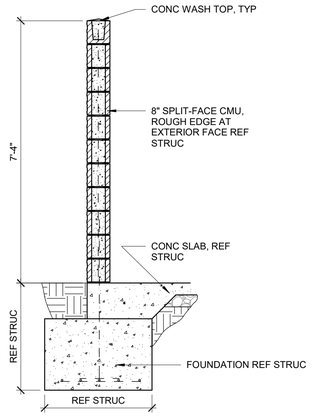
1/2" = 1'-0"

BOLLARD NOTE:
ALL BOLLARDS, RAILS, BARRIERS, OR GUARDS ARE USED ONLY TO PROVIDE VISUAL CUES SEPARATING PEDESTRIAN, EQUIPMENT, AND VEHICLE AREAS AND ARE NOT INTENDED TO COMPLY WITH ASCE, ASTM F3016, ASTM F2656, OR ANY PROVISION ESTABLISHING TESTING OR RATING REQUIREMENTS FOR VEHICLE IMPACT.



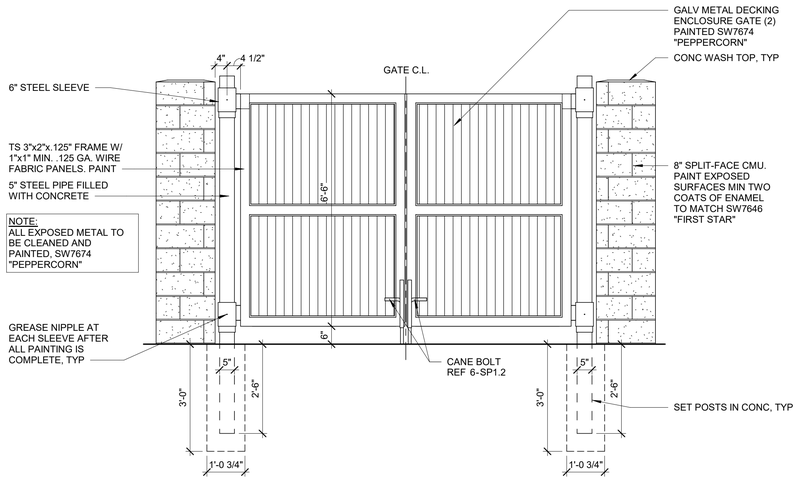
4 PIPE BOLLARD

1/2" = 1'-0"



3 TRASH ENCLOSURE WALL SECTION

1/2" = 1'-0"



2 TRASH ENCLOSURE GATE ELEVATION

1/2" = 1'-0"

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Sheet Title

TRASH ENCLOSURE & DETAILS

Sheet No.

SP1.2

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Governing Building Code: 2018 IBC

Design Specifications:
- ASCE 7-16
- ACI 318-14
- AISC 360-16
- AISC 341-16
- AISI S100-16
- ANSI/AF&PA NDS-18
- TMS 402-16
- TMS 602-16

Design Loads:

Roof Loads:
- Top Chord Dead Load: 15 psf
- Top Chord Live Load: 20 psf
- Bottom Chord Dead Load: 10 psf
- Bottom Chord Live Load: 5 psf

Floor Loads:
- Dead Load: 25 psf
- Private Room Live Load: 40 psf
- Public & Corridor Live Load: 100 psf

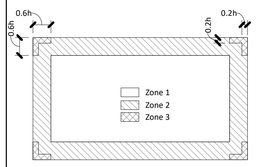
Wind Loads:
- Occupancy: II
- Velocity: 109 mph
- Exposure: C
- Iw: 1.0

Snow Loads:
- Pg: 20 psf
- Pf: 14.00 psf
- Ce: 0.90
- Is: 1.0
- Ct: 1.0

Seismic Loads:
- Ie: 1.0
- Ss: 0.099 g
- S1: 0.068 g
- Site Class: C
- Sds: 0.106 g
- Sd1: 0.109 g
- Seismic Design Category: B
- Seismic Force- Resisting System: L.F.S.W.
- Design Base Shear: CsW
- Cs: 0.0162
- R: 6.5
- Analysis Procedure Used: E.L.F.P.

Design Loading Notes:

1. Dead load shown includes collateral load of 4 psf.
2. See components and cladding table for design wind pressures.
3. See net uplift diagram for joist due to wind pressures.



Components & Cladding Wind Zone Diagram

COMPONENTS & CLADDING WIND PRESSURES

Zone	Effective Wind Area (sq ft)	Max. +VE Pressure (psf)	Max. -VE Pressure (psf)
1 - Roof Interior	10	16.0	-48.3
1 - Roof Interior	20	16.0	-45.1
1 - Roof Interior	50	16.0	-40.9
1 - Roof Interior	≥ 100	16.0	-37.7
2 - Roof Edge	10	27.2	-63.7
2 - Roof Edge	20	26.5	-59.6
2 - Roof Edge	50	24.9	-54.2
2 - Roof Edge	≥ 100	23.7	-50.1
3 - Roof Corner	10	27.7	-63.7
3 - Roof Corner	20	26.5	-59.6
3 - Roof Corner	50	24.9	-54.2
3 - Roof Corner	≥ 100	23.7	-50.1
4 - Wall Interior	10	27.7	-30.1
4 - Wall Interior	20	26.5	-28.8
4 - Wall Interior	50	24.9	-27.2
4 - Wall Interior	≥ 100	23.7	-26.0
5 - Wall Edge	10	27.7	-37.0
5 - Wall Edge	20	26.5	-34.5
5 - Wall Edge	50	24.9	-31.3
5 - Wall Edge	≥ 100	23.7	-28.8

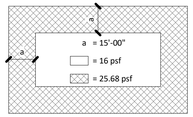
1. The components & cladding (C&C) wind pressures shown assume a mean roof height of 39'-0" above finished floor elevation. All components shall be designed to resist the provided pressures, which shall be clearly defined on all shop drawings. Refer to wind zone diagram for zone locations. Plus and minus signs signify pressures acting toward and away from surfaces, respectively.

2. The components & cladding wind zone diagram is generalized to show all possible conditions. The diagram shape may not match the specific layout for this project.

3. Internal Pressure Coefficient = ±0.18

4. Wind pressures shown are strength level.

(Pressures shown are at strength level)



Net Uplift diagram for Trusses & Truss Girders
(Pressures shown are at strength level)

General:
1. The structural systems shown on these documents have been designed for the final, in place usage of the structure based on the intended occupancy and code requirements. While general constructability has been considered, the structural systems have not been designed to accommodate specific construction means and methods that might be utilized by the Contractor.

2. The Contractor shall field verify all existing dimensions prior to fabrication.

3. The Contractor shall notify the Engineer of any observed discrepancies in dimensions, detailing, or other items as shown on the plans or specified prior to proceeding with work relating to said discrepancies.

4. The Contractor shall not alter or modify work shown on the structural drawings without receiving written approval from the Engineer.

5. The Contractor shall be responsible for supplying shop drawings for wood joists & trusses, structural steel, reinforcing steel, concrete masonry units and accessories, plan and elevation views of concrete masonry wall elevations including control joint and expansion joint locations, mortar and grout, and concrete mix designs. Shop drawings must be reviewed for conformance with the means, methods, techniques, sequences, and operations of construction, and safety precautions and programs incidental thereto, all of which are the sole responsibility of the Contractor, and shall be stamped "approved" by the Contractor prior to submittal. Shop drawings submitted without the Contractor's stamped approval will be returned rejected. All shop drawings shall be reviewed by the Structural Engineer prior to construction.

6. See architectural, mechanical, and electrical drawings for other pertinent information related to the structural work and coordinate as required. These structural drawings are intended to be included in a complete set of construction documents, including but not limited to, architectural drawings, civil drawings, and mechanical/electrical/plumbing drawings. Contractor shall verify coordination of these drawings with contents of above drawing sets specified and only proceed with bidding and construction after such has taken place.

7. The building and the independent structural components shown in these documents are not structurally stable until all connections, framing, shear walls, diaphragms, permanent bracing, metal decking, interior and exterior concrete slabs on grade, and exterior or interior load-bearing walls are complete and have achieved their design strength. Contractor is solely responsible for maintaining structural stability during erection and construction. Temporary bracing systems shall remain in place until all structural work is complete.

8. The Contractor is responsible for verifying all existing dimensions and conditions of the existing building and reporting discrepancies from the assumed conditions shown on the structural drawings to the engineer of record prior to fabrication and erection of any member.

9.) Reference the specification for additional requirements.

10.) The Contractor shall coordinate the roof drainage system with the architect as required to ensure that no more than 3 1/2" of water can accumulate before entering an overflow drainage system.

Structural Engineer Site Observations:

1. The contract structural drawings & specifications represent the finished structure, and, except where specifically shown, do not indicate the method or means of construction. The Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, and sequence.

2. The engineer shall not have control nor charge of and shall not be responsible for, construction means, methods, techniques, sequences, or procedures, for safety precautions & programs in connection with the work, for the acts or omission of the Contractor, subcontractor, or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with the contract documents.

3. Periodic site observation by field representatives of BSE Structural Engineers LLC. is solely for the purpose of determining if the work of the Contractor is proceeding in general accordance with the structural contract documents. This limited site observation should not be construed as exhaustive or continuous to check the quality or quantity of work, but rather periodic in an effort to guard the client against defects or deficiencies in the work of the Contractor.

Slab On Grade:

1. Welded wire fabric shall be supplied in sheets only. Rolls will not be permitted. (As required on construction documents.)

2. Welded wire fabric shall be supported on chairs or blocks prior to concrete placement. Mesh shall not be hooked and pulled up during concrete placement. (As required on construction documents.)

3. Welded wire fabric shall have end and edge laps of one full mesh plus 2" between cross wires. Wire all laps securely together.

4. Welded wire fabric shall conform to ASTM A185.

5. Floor finish requirements: Slab-on-grade shall be finished to overall floor flatness, overall floor levelness, local floor flatness, and local floor levelness requirements as defined by the owner. Coordinate requirements as required with G.C. prior to slab-on-grade placement. Floor finish requirements to be determined in accordance with ASTM E 1155.

Foundations:

1. Foundations for this project have been designed in accordance with requirements set forth in a geotechnical report prepared by CFS Engineers dated June 14th 2023. Project No. 22-5831. Continuous and individual footings have been designed for an allowable soil bearing capacity of 4,000 psf. Additional information is to be provided by the rammed aggregate pier subgrade improvement consultant. The Contractor shall refer to the Geotechnical Report for all requirements and recommendations pertinent to this project. The Contractor shall ensure the soil fill requirements have been followed to meet the minimum bearing shown above. Refer to the geotechnical report for ground water drainage requirement.

2. Anchor rods shall conform to ASTM F1554 Gr. 36 and shall be located by means of a template. Provide a nut above and below template to assure proper vertical alignment.

3. All foundations shall be square and level.

4. Grout shall be dry and stiff to prevent shrinkage, with a minimum compressive strength of 4000 psi. Grout below column base plates. Thoroughly compact grout beneath base plate.

Concrete and Reinforcing Steel:

1. Concrete mix designs shall meet the following requirements:

Location	Minimum Compressive Strength (psi)	Max. Aggregate Size	Max. Water/Cement Ratio	Slump (in.)	Air Entrainment (%)
Interior Slabs	3500	3/4"	0.50	4 ± 1	0
Exterior Slabs (Sidewalks and Stoops)	4500	3/4"	0.45	4 ± 1	6 ± 1
Interior Foundations	3500	1"	0.50	4 ± 1	0
Perimeter Foundations	3500	1"	0.50	4 ± 1	6 ± 1
Lightweight Topping Slab	4000	1/2"	0.45	4 ± 1	0

2. Fly ash shall not be used unless approved in writing by the Engineer. Fly ash, if approved, shall conform to ASTM C618 and shall not exceed 15% of the total cement volume.

3. The use of admixtures to increase the slump shall not be used unless approved in writing by the Engineer.

4. All concrete is reinforced unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas.

5. Construction joints in grade beams shall be at midspan unless noted otherwise. Reinforcing steel shall be continuous through construction joints unless noted otherwise.

6. No aluminum items shall be embedded in any concrete or placed in contact with concrete.

7. Reinforcing bars #4 and larger (except ties and stirrups) shall meet ASTM A615 with Supplementary Requirements (S1), Grade 60. Smaller bars shall be Grade 40.

8. Concrete coverage of reinforcement shall have the following clear distances unless noted otherwise on the drawings:

Cast against earth: 3"

Formed concrete exposed to earth or weather: 2"

Not exposed to earth or weather: 1" Slabs, 1 1/2" Beams and columns

9. Embedded and all reinforcing bars marked continuous shall be embedded to develop the full tensile capacity of the bar. Laps shall be Class B tension laps unless specified otherwise on the drawings. Unless shown otherwise, splice top bars near midspan and splice bottom bars over supports.

10. Supply corner bars 4'-0" long (min. 2'-0" in each direction) in outside face of wall at corners of all walls and grade beams, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply three (3)-#4 vertical support bars for corner bars.

12. All bars are to be supported in forms and spaced with wire bar supports per ACI "Manual of Standard Practice for Detailing Concrete Structures" (latest edition). Bars shall be securely wired per the latest edition of CRSI's "Recommended Practice for Placing Reinforcing Bars." Accessories for exposed concrete shall be plastic or shall have plastic-tipped feet.

13. Concrete placed during cold weather shall conform to the requirements of ACI 306R-88. Cold weather is defined as a period when, for more than 3 successive days, the mean daily temperature drops below 40°F.

13. Concrete placed during hot weather shall conform to the requirements of ACI 305R-91. Hot weather is defined as that combination of air temperature, concrete temperature, relative humidity and wind speed that will cause a rate of evaporation of 0.2 lb/sq.ft./hr. or more as defined by Figure 2.1.5 of ACI 305R-91.

14. Do not add water to concrete during delivery, at Project Site, or during placement, unless approved by the Engineer.

15. Provide 3/4" chamfer on all exposed corners unless noted otherwise on architectural or structural construction documents.

16. All cold joints shall be roughened and cleaned unless noted otherwise.

17. Vertical control joints in walls shall be placed at 30'-0" maximum spacing unless noted otherwise. Locate joints beside piers monolithic with walls, near corner, and in concealed locations where possible. Construction joints may be placed in lieu of control joints at Contractors discretion. Coordinate location of control joints with Architect.

Post-Installed Anchors:

1. Post-Installed anchors shall only be used where specified in the construction documents.

2. The Contractor shall obtain written approval from the engineer prior to installing post-installed anchors for mis-placed anchors.

3. Care shall be taken with placing post-installed anchors to avoid damaging existing reinforcement.

4. The holes shall be drilled and cleaned in accordance with the manufacturers specifications.

5. Post-installed anchors shall meet ACI Appendix D criteria. The following are acceptable post-installed anchors:

All adhesive anchoring systems referred to in these drawings shall be one of the following:
a. Hilti HIT HY 200 V3
b. Dewalt AC200+
c. Simpson Strong-Tie SET-XP
d. Or Approved Equivalent

All screw anchors referred to in these drawings shall be one of the following:
a. Hilti KH-EZ
b. Dewalt Power-Bolt +
c. Simpson Strong-Tie Titen HD
d. Or Approved Equivalent

Masonry:

1. Mortar shall be Type S for all masonry work and must achieve a minimum compressive strength of 1800 psi at the 28-day test. Masonry shall have a minimum strength of f'm = 2000 psi.

2. Masonry grout shall be a coarse-type grout and must achieve a minimum compressive strength of 2500 psi at the 28-day test. Slump shall range from 8" minimum to 10" maximum. Grout materials and proportions shall conform to ASTM C476.

3. All masonry shall be reinforced with horizontal 9 gage ladder or truss type reinforcement at 16" o.c. vertical or as shown on the drawings.

4. Vertical reinforcing shall be installed as noted on the drawings. Reinforcing bars shall be lapped as specified on the design drawings. If no lap length is shown, contact the Engineer.

5. Vertical control joints in masonry shall be 3/8" wide, full height of wall at locations shown on the Architectural drawings. Joints shall be spaced at a maximum of 25'-0" apart and coordinated with the Architect. All horizontal joint reinforcing shall be discontinuous at masonry control joints. Refer to typical details for additional information

6. Lintels over openings shall be installed as indicated on the drawings. If no lintels are indicated, notify the Engineer.

7. Provide at least (1) vertical rebar at each end, side of control joints, jambs, corner, and intersection of all reinforced masonry walls. Size of rebar to match the size of typical vertical reinforcing shown.

8. Provide (1) corner bar at each horizontal bond beam.

9. Submit shop drawings including plan and elevation views of reinforced masonry walls including bond beams, control joints, expansion joints, and lintels.

10. All steel beams bearing on masonry shall have (3) cores minimum grouted full directly below the bearing locations unless noted otherwise.

Structural Steel:

1. All structural steel shall conform to the following:

Structural Steel Wide Flanges:	ASTM A992
Miscellaneous Steel:	ASTM A36
Structural Tubing:	ASTM A500, Grade C (Fy = 50 ksi)
Steel Pipe:	ASTM A53, Type E or S, Grade B

2. Bolts shall be as follows:

Connection Bolts:	ASTM A325
Anchor Rods:	ASTM F1554, Grade 36
Shear Studs:	ASTM A108, Grade 1015 through 1020

3. Welding shall conform to the latest publication of applicable codes set forth by the American Welding Society. Welding electrodes shall be E70XX.

4. All steel stairs shall be designed by the steel stair manufacturer in compliance with the governing building code to meet 100 psf design live load.

Rough Carpentry:

1. All roof, floor and wall sheathing shall be APA rated, with exterior glue. Roof sheathing shall have a panel identification index of 24/16. Floor sheathing shall have an identification index of 48/24.

2. Plywood sheathing shall be attached to framing members as described below unless noted otherwise on plan. Refer to shear wall schedule for required wall sheathing & nailing:

Locations	Plywood Thickness (in.)	Tongue & Groove	Nail Size	Nail Type	Min. Penetration into Support (in.)	Nail Spacing @ Panel Edges	Nail Spacing @ Interior Support	Nail Spacing @ Diaphragm Boundary	Blocked
Roof - Flat	3/4"	Yes	10d	Wire	1 1/2"	6"	12"	6"	No
Roof - Gable	5/8"	Yes	10d	Wire	1 1/2"	6"	12"	6"	No
Walls	7/16"	No	8d	Wire	1 3/8"	6"	12"	6"	Yes
Floor	3/4"	Yes	10d	Wire	1 1/2"	6"	12"	6"	No

3. All dimension lumber used in load-bearing walls, floor joists, exterior lintels, interior lintels, all bearing and jamb studs, columns and beams, shall have the following minimum design values (U.N.O.):

DIMENSIONAL		LVL		GLULAM		PSL	
Fb:	875 psi	Fb:	2600 psi	Fb:	2600 psi	Fb:	2900 psi
Fv:	135 psi	Fv:	285 psi	Fv:	750 psi	Fv:	290 psi
Fc (Perp):	425 psi	Fc (Perp):	750 psi	Fc (Perp):	740 psi	Fc (Perp):	750 psi
E:	1,400,000 psi	E:	2,000,000 psi	E:	1,900,000 psi	E:	2,000,000 psi

These values are based on allowable stresses provided in the NDS (2018) and do not include adjustment Factors.

The following species and commercial grades of dimensional lumber conform to the above minimum design values:

Douglas Fir - Larch:	No. 2
Southern pine:	No. 2, or approved equal
Spruce-Pine-Fir:	No. 2, or approved equal

4. All dimension lumber used for non-load bearing walls shall have the following minimum design values:

Fb:	675 psi
Fv:	70 psi
Fc (perp):	425 psi
E:	1,200,000 psi

These values are based on allowable stresses provided in the NDS (2018) and do not include adjustment factors.

5. A.C.Q. lumber shall be used in all locations where lumber is exposed to weather, moisture, or is in contact with concrete.

6. For studs, sill plates or top plates damaged on one side G.C to provide one Simpson CTS218 strap at each stud, sill plate or top plate. Studs, sill plates or top plates damaged past the extends noted above are to receive on Simpson CTS218 strap each side of the damaged memeber. G.C to provide Simpson Stud shoe as required for allowable MEP pipe diameters.

7. Framing to be installed square and level. Out of square or level/ plumb framing shall be removed and re-built at G.C.'s / subcontractors expense.

8. Rough framing to be inspected prior to installation and framing memebers are to be selected in good condition; straight, un-cracked, not split, not bowed, and clear of any mold/ rot. Mold or rotten pieces shall not be used for construction. Unfit framing material to be used as blocking or bracing (stud grade lumber, refer to ANSI/ AWC NDS). G.C. to confirm with special inspector pior to construction for questionable lumber, provide Engieer with report.

9. G.C. to provide all required blocking as required. Refer to archtectural and MEP drawings for required locations. Blocking to be provided for; bath accessories, grab bars, door stops, mill work, mirrors, soap and paper dispensers, vanities, etc.

10. Connections and fasteners for preservative-treated and fire-treated wood shall be hot-dipped zinc-coated galvanized steel, stainless steel, silicon bronze, or copper. Contact EOR for substitions as required.

11. Shear wall anchor bolts and hold down hardware must be secured in place prior to foundation inspection.

13. All diaphragm and shear wall nailing shall utilize "common" nails with full heads unless otherwise approved.

14. Wood &/or gypsum sheathing shall be attached to framing members at shear walls as noted on plans and schedules, or in the architectural drawings.

15. Coordinate all expansion joints in wall sheathing with architectural drawings & finish provider. Joints are to occur at wall plates and solid blocking to allow for sheathing attachment on each side.

Prefabricated Wood Trusses:

1. Roof trusses shall be factory-manufactured wood trusses using steel connector plates. Trusses shall be designed for the loads shown on the construction drawings. Truss manufacturers shall provide design calculations, shop drawings and erection drawings for review by the Engineer prior to construction. Contractor shall install all blocking, load transfer assemblies, hangers, accessories, etc. as recommended by the truss manufacturer, the Truss Plate Institute, or these construction drawings.

2. Floor joists shall be factory-manufactured Open Web Series joists (Truss-Joist or approved equal) or pre-engineered I-shape series joists (Truss-Joist or approved equal). Joist manufacturers shall provide design calculations, shop drawings and erection drawings for review by the Engineer prior to construction. Joist designations are indicated on the floor framing plan. Contractor shall install all blocking, load transfer assemblies, hangers, accessories, etc. as recommended by the joist manufacturer.

3. Roof and floor trusses shall be designed by a Professional Engineer for design loads indicated on these drawings. All calculations and shop drawings shall bear the seal of a Professional Engineer registered in the state in which the trusses or joists are to be used.

4. All trusses and floor joist shall be designed for the following deflection criteria:
Total Load: L/240
Live Load: L/360

5. Truss designer shall be responsible for all connections of truss system to support structure.

ABBREVIATIONS LIST

&	AND
@	AT
°	DEGREES
=	EQUALS
'	FEET
>	GREATER THAN
≥	GREATER THAN OR EQUAL TO
"	INCHES
<	LESS THAN
≤	LESS THAN OR EQUAL TO
-	MINUS, NEGATIVE
+	PLUS
±	PLUS OR MINUS
A.F.F.	ABOVE FINISHED FLOOR
ARCH.	ARCHITECT
B.O.S.	BOTTOM OF STEEL
C.J.	CONTROL/CONSTRUCTION JOINT
C.L.	CENTER LINE
C.M.U.	CONCRETE MASONRY UNIT
CLG.	CEILING
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
COORD.	COORDINATE
CTR.	CENTER
DIA.	DIAMETER
DN.	DOWN
DWG.	DRAWING
E.J.	EXPANSION JOINT
E.O.R.	ENGINEER OF RECORD
EA.	EACH
EL.	ELEVATION
ENG.	ENGINEER
ETC.	ET CETERA
F.B.E.	FOOTING BEARING ELEVATION
F.F.E.	FINISHED FLOOR ELEVATION
FT.	FOOT/FEET
FTG.	FOOTING/FOUNDATION
G.C.	GENERAL Contractor
GALV.	GALVANIZED
GYP.	GYPSUM
HORIZ.	HORIZONTAL
IN	INCHES
J.B.E.	JOIST BEARING ELEVATION
JT.	JOINT
L.F.	LINEAR FEET
LB	POUND
M.E.P.	MECHANICAL ELECTRICAL PLUMBING
MAX.	MAXIMUM
MIN.	MINIMUM
MISC.	MISCELLANEOUS
N.A.	NOT APPLICABLE
N.T.S.	NOT TO SCALE
Ø	DIAMETER
PL.	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
REQ.	REQUIRED
SF	SQUARE FEET
SIM.	SIMILAR
SPEC.	SPECIFICATION
SQ.	SQUARE
T.O.C.	TOP OF CONCRETE
T.O.F.	TOP OF FOOTING
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
THRU.	THROUGH
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W.W.F.	WELDED WIRE FABRIC
WT.	WEIGHT

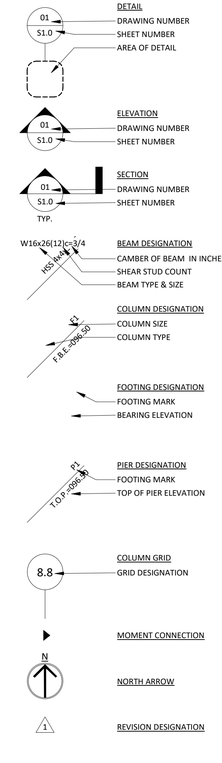
MATERIALS LEGEND

ALUMINIUM
CONCRETE
EARTH
GRAVEL
GROUT
GYPSUM
INSULATION - RIGID
MASONRY - BRICK
MASONRY - CMU
PLYWOOD
STEEL
TILT / PRE-CAST

SHEET LIST

Sheet Number	Sheet Name
S0.0	GENERAL NOTES
S0.1	GENERAL NOTES
S0.2	ISOMETRIC
S0.3	BUILDING SECTION
S1.1	FOUNDATION PLAN
S2.1	2ND FLOOR FRAMING PLAN
S2.2	3RD FLOOR FRAMING PLAN
S2.3	4TH FLOOR FRAMING PLAN
S2.4	ROOF FRAMING PLAN
S3.1	TYPICAL FOUNDATION DETAILS
S3.2	FOUNDATION DETAILS
S4.1	TYPICAL FRAMING DETAILS
S4.2	TYPICAL FRAMING DETAILS
S4.3	TYPICAL STAIR FRAMING PLAN & DETAILS
S4.4	FRAMING DETAILS
S4.5	FRAMING DETAILS
S4.6	FRAMING DETAILS
S4.7	PARAPET FRAMING DETAILS
S5.1	CANOPY FRAMING PLAN AND DETAILS
S5.2	TRASH ENCLOSURE FRAMING PLAN AND DETAILS

SYMBOLS LEGEND



brr

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Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD
LEE'S SUMMIT, MO.

WOODSPRING SUITES

Drawn By: AG
Checked By: AG
Document Date: 08/15/2023
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_B08
Project No. 31000541

Professional Seal

STATE OF MISSOURI
STEVEN N. RUSEV
NUMBER E-25461
PROFESSIONAL ENGINEER
08.15.23

Sheet Title

GENERAL NOTES

Sheet No.

S0.0

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Special Inspector:

1. The following items require special inspection in accordance with the building code.
   a. Reinforced masonry construction - level 1 inspection
   b. Concrete & masonry grout design mix
   c. Placing of concrete & reinforcing steel
   d. Bolts & anchors embedded in concrete & masonry
   e. Concrete formwork
   f. Structural steel fabrication
   g. Structural steel bolting & welding
   h. Inspection of roof & deck attachment
   I. Post installed anchors in masonry & concrete
   J. In-situ soils, excavations, filling & compaction

2. The Contractor shall request special inspection of the items listed above prior to those items becoming inaccessible & unobservable due to progression of the work.

3. The Special Inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the building official, for inspection of the particular type of construction or operation requiring special inspection.

4. The Special Inspector shall observe the work assigned for conformance with the approved design drawings and specifications.

5. The Special Inspector shall furnish inspection reports to the Building Official, the Engineer and Architect of record, and other designated persons. All discrepancies shall be brought to the immediate attention of the Contractor for correction, then if uncorrected, to the proper design authority and to the Building Official.

6. The Special Inspector shall submit a final signed report stating whether the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the governing building codes.

Earthwork:

1. The Inspector must verify that the preparation of the natural ground and the placement of engineered fill is performed in accordance with the GEOTECHNICAL engineer's recommendations as stated in the GEOTECHNICAL report.

2. The Inspector must monitor the placement of all fill to determine whether the type of material, moisture content, and degree of compaction are within the recommended limits contained in the GEOTECHNICAL report. Proceed with subsequent earthwork only after test results for previously completed work comply with recommended limits contained in the GEOTECHNICAL report.

3. All Subgrade supporting footings and slabs must be inspected immediately prior to the placement of reinforced concrete.

4. Paved and building slab areas shall be tested at Subgrade and at each compacted fill and backfill layer, at least once for every 2000 sq. ft. or less of paved or building slab areas, but in no case fewer than 3 tests.

5. Foundation wall backfill shall be tested at each compacted initial and final backfill layer, at least once for each 100 ft. or less of wall length, but no fewer than 2 tests.

6. Trench backfill shall be tested at each compacted initial and final backfill layer, at least once for each 150 ft. or less of trench length, but no fewer than 2 tests.

7. Test compaction of soils-in-place in accordance with ASTM D 1556, ASTM D 2167, ASTM D 2922, and ASTM D 2937, as applicable.

8. Test Reporting: Test results must be reported to BSE and the general contractor in writing within 24 hours after testing, via fax. Reports must contain the project name, the date of the test and the location of the test.

Concrete:

1. Strength test cylinders shall be prepared for each day's pour of each concrete mix and at a minimum frequency of every 50 cu. yd. on all concrete placed. Conform to ASTM C39.

2. Four (4) test cylinders are to be made and cured on site for the first 24 hours. Test one of the specimens at 7 days and two at 28 days. Hold the fourth specimen in reserve for later testing if needed.

3. Slump, air content and temperature tests shall be conducted at a minimum when strength specimens are made and at any other times as specified by the Engineer.

4. Perform slump tests on a representative concrete sample at the point of discharge. Perform additional tests when concrete consistency seems to have changed. The maximum allowable field slump is 5 inches. Conform to ASTM C143.

5. Perform air content tests on all concrete specified to be air-entrained. Conform to ASTM C231.

6. Perform a temperature test every hour when air temperature is 40°F and below, or when air temperature is 80°F and above. Conform to ASTM C 1064.

7. Prior to the closing of forms or the delivery of concrete to the job site, the inspector shall verify that the reinforcing steel is in conformance with the city-approved plans, specifications and shop drawings. The inspector shall confirm that the reinforcing steel is of the correct size and grade and ensure that the proper spacing, clearances, splice lengths and embedded items have been provided. All reinforcing steel shall be in place prior to the placement of concrete and be secured against displacement.

8. The Inspector shall verify that the bolt size, location and embedment length of all anchor bolts are in conformance with the city-approved plans, specifications and shop drawings.

9. Anchor rods 3/4"Ø or smaller may be floated in place following concrete placement, provided that anchor bolts are worked easily by hand into the fresh concrete to allow for full contact with the shank of the bolt. Bolts shall be placed by means of a template and shall be worked into concrete in vertical alignment.

10. Test Reporting: Test results must be reported to BSE and the General Contractor in writing within 24 hours after testing, via fax or email. Reports of compressive strength tests must contain the project name, the date of concrete placement, the location of concrete placement within the structure and the concrete mix design being used.

Structural Steel:

1. Bolts: Bolts that are not identified as being slip-critical nor in direct tension need not be inspected other than to verify that the plies of connected elements are brought into snug-tight condition in properly-aligned holes.

2. Field Welding: Inspection is required for single-pass fillet welds, multi-pass fillet welds, complete- and partial-penetration groove welds, floor and roof deck welding, and stairs and railing systems. Prior to the start of the work, materials, qualifications of welding procedures and welder qualifications shall be verified. Provide continuous or periodic inspection of the structural welding as indicated in Table 1704.3 of the referenced IBC. Inspections may occur periodically, as defined below. A visual inspection to ensure proper type, size, length and quality of all field welds is required prior to work being concealed by other materials.

3. Periodic inspection: "Periodic" is defined as generally once a week at a minimum, and more often as needed to observe work requiring inspections, as outlined above, prior to being covered by subsequent construction.

4. Shear connector stud welds will be inspected and tested according to AWS D1.1 for stud welding. Shear connector stud welds shall be visually inspected. Bend tests shall be performed if visual inspections reveal less than a 360-degree flash or welding repairs to any shear connector stud.

5. Structural steel bar joists and metal buildings fabricated on the premises of a facility/plant not certified by a nationally recognized organization, shall have in-plant special inspections. AISC, ICBO, CWB and SJI are certified fabricators.

6. Test Reporting: Test results must be reported to BSE and the General Contractor in writing within 24 hours of testing, via fax or email. Reports must contain the project name, the date of the test and the location of the test.

Masonry:

1. Mortar properties, grout, brick, concrete masonry unit and prism tests and evaluations are to be performed during construction for each 5,000 sq. ft. of wall area or portion thereof.

2. Mortar properties are to be tested per ASTM C 780.

3. Grout will be sampled and tested for compressive strength per ASTM C 1019.

4. Brick tests for each type and grade of brick indicated are to be performed according to ASTM C 67.

5. Concrete masonry unit tests for each type of concrete masonry unit indicated are to be performed per ASTM C 140.

6. Masonry prisms are to be tested per ASTM C 1314. Prepare one (1) set of prisms for testing at 7 days and one (1) set for testing at 28 days.

7. Special inspection of masonry construction is required during preparation and taking of any required prisms or test specimens, placing of all masonry units, placement of reinforcement and inspection of grout space immediately prior to closing cleanouts, and during all grouting operations.

8. Test Reporting: Test results must be reported to BS and the general contractor in writing within 24 hours of testing, via fax. Reports must contain the project name, the date of the test and the location of the test.

Required Verification and Inspection of Steel Construction Other Than Structural Steel Per IBC Table 1705.2.2

Type	Continuous Special Inspection	Periodic Special Inspection	Referenced Standard
1. Material verification of cold-formed steel deck:			
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	-	X	Applicable ASTM material standards
b. Manufacturer's certified test reports.	-	X	
2. Inspection of welding and attachment:			
a. Cold-formed steel deck:			
1. Floor and roof deck welds and other means of attachment.	-	X	AWS D1.3
b. Reinforcing steel:			
1. Verification of edibility of reinforcing steel other than ASTM A 706.	-	X	AWS D1.4 ACI 318: Section 3.5.2
2. 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.	X X	- -	
3. Shear reinforcement.	-	X	
4. Other reinforcing steel.			

a. Where applicable, see also Section 1705.11 Special inspections for seismic resistance.

Required Special Inspections and Tests of Concrete Construction Per IBC Table 1705.3

Type	Continuous Special Inspection	Periodic Special Inspection	Referenced Standard
1. Inspect reinforcement, including prestressing tendons, and verify placement.	-	X	ACI 318 Chp. 20, 25.2, 25.3, 26.6.1.-26.6.3.
2. Reinforcing bar welding:			
a. Verify weldability of reinforcing bars other than ASTM A706	-	X	AWS D1.4 ACI 318: 26.6.4
b. Inspect single-pass fillet welds, maximum 5/16"; and	-	X	
c. Inspect all other welds.	X	-	
3. Inspect anchors cast in concrete.	-	X	ACI 318: 17.8.2
4. Inspect anchors post-installed in hardened concrete members			
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X	-	ACI 318: 17.8.2.4
b. Mechanical anchor and adhesive anchors not defined in 4.a.	-	X	ACI 318: 17.8.2.
5. Verify use of required design mix.	-	X	ACI 318: Chp. 19, 26.4.3, 26.4.4
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	-	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12
7. Inspect concrete and shotcrete placement for proper application techniques.	X	-	ACI 318: 26.5
8. Verify maintenance of specified curing temperatures and techniques.	-	X	ACI 318: 26.5.3-26.5.5
9. Inspect prestressed concrete for:			
a. Application of prestressing forces; and	X	-	ACI 318: 26.10
b. Grouting of bonded prestressing tendons.	X	-	
10. Inspect erection of precast concrete members.	-	X	ACI 318: Chp. 26.8
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.	-	X	ACI 318: 26.11.2
12. Inspect framework for shape, location and dimensions of the concrete member being formed.	-	X	ACI 318: 26.11.1.2(B)

a. Where applicable, see also Section 1705.12, Special inspections for seismic resistance.
b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

Required Special Inspections and Tests of Soils Per IBC Table 1705.6

Type	Continuous Special Inspection	Periodic Special Inspection
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	-	X
2. Verify excavations are extended to proper depth and have reached proper material.	-	X
3. Perform classification and testing of compacted fill materials.	-	X
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	-
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	-	X

Required Special Inspections and Tests of Driven Deep Foundation Elements Per IBC Table 1705.7

Type	Continuous Special Inspection	Periodic Special Inspection
1. Verify element materials, sizes and lengths comply with the requirements.	X	-
2. Determine capacities of test elements and conduct additional load tests, as required.	X	-
3. Inspect driving operations and maintain complete and accurate records for each element.	X	-
4. Verify placement locations and plumbness, confirm type size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element.	X	-
5. For steel elements, perform additional special inspections in accordance with Section 1705.2.	-	-
6. For concrete elements and concrete-filled elements, perform tests and additional special inspections in accordance with Section 1705.3.	-	-
7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge.	-	-

Required Quality Control Inspections (QCI) & Quality Assurance Inspections (QAI) of Steel Construction Per AISC 360, Specification Chapter M & N

Type	Frequency of Inspections	Referenced Standard
1. The fabricator's QCI shall inspect the following as a minimum, as applicable:		AISC 360 Chp. M & N
a. Shop welding, high strength bolting and details in accordance with AISC 360, Section N5.	Per AISC	TABLE N5.4-1 TABLE N5.4-2 TABLE N5.4-3
b. Shop cut and finished surfaces in accordance with AISC 360, section M2.	Per AISC	TABLE N5.6-1 TABLE N5.6-2
c. Shop heating for straightening, cambering and curving in accordance with AISC 360, Section M2.1.	Per AISC	TABLE N5.6-3 TABLE N6.1
d. Tolerances for shop fabrication in accordance with the Code of Standard Practice, Section 6.	Per AISC	Code of Standard Practice Sec. 6
2. The erector's QCI shall inspect the following as a minimum, as applicable:		AISC 360 Chp. M&N
a. Field welding, high strength bolting and details in accordance with AISC 360, Section N5.	Per AISC	TABLE N5.4-1 TABLE N5.4-2
b. Steel deck and headed steel stud anchor placement and attachment in accordance with AISC 360, Section N6.	Per AISC	TABLE N5.4-3 TABLE N5.6-1
c. Field cut surfaces in accordance with AISC 360, Section M2.2.	Per AISC	TABLE N5.6-2 TABLE N5.6-3
d. Field heating for straightening in accordance with AISC 360, Section M2.1.	Per AISC	TABLE N6.1
e. Tolerances for field erection in accordance with the Code of Standard Practice, Section 7.13.	Per AISC	Code of Standard Practice Sec. 6
3. QAI shall be performed by others. All required inspection and non-destructive testing, as applicable, shall be in accordance with AISC 360	Per AISC & IBC	AISC 360 Chp. M&N

Required Special Inspections and Tests of Masonry Per IBC Table 1705.4

LEVEL A - QUALITY ASSURANCE

MINIMUM TESTS

None

MINIMUM INSPECTION

Verify compliance with the approved submittals

LEVEL B - QUALITY ASSURANCE

MINIMUM TESTS

Verification of Slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with Specification Article 1.5 B.1.b.3 for self-consolidating grout

Verification of f'_m and f'_{ACC} in accordance with Specification Article 1.4 B prior to construction, expect where specifically exempted by Code

MINIMUM INSPECTION

Type	FREQUENCY[a]		REFERENCE FOR CRITERIA	
	Continuous	Periodic	TMS 402/ACI 530/ASCE 5	TMS 602/ACI 530.1/ASCE 6
1. Verify compliance with the approved submittals		X		Art. 1.5
2. As masonry construction begins, verify that the following are in compliance:				
a. Proportions of site-prepared mortar		X		Art. 2.1, 2.6 A
b. Construction of mortar joints		X		Art. 3.3 B
c. Grade and size of prestressing tendons and anchorages		X		Art. 2.4 B, 2.4 H
d. Locations of reinforcement, connectors, and prestressing tendons and anchorages		X		Art. 3.4, 3.6 A
e. Prestressing technique		X		Art. 3.6 B
f. Properties of thin-bed mortar for ACC masonry	X[b]	X[c]		Art. 2.1 C
3. Prior to grouting, verify that the following are all in compliance:				
a. Grout space		X		Art. 3.2 D, 3.2 F
b. Grade, type and size of reinforcement and anchor bolts, and prestressing tendons and anchorages		X	SEC. 1.16	Art. 2.4, 3.4
c. Placement of reinforcement, connectors, and prestressing tendons and anchorings		X	SEC. 1.16	Art. 3.2 E, 3.4, 3.6 A
d. Proportions of site-prepared grout and prestressing grout for bonded tendons		X		Art. 2.6 B, 2.4 G.1.b
e. Construction of mortar joints		X		Art. 3.3 B
4. Verify during Construction:				
a. Size and Location of structural elements		X		Art. 3.3 F
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction		X	SEC 1.16.43, 1.17.1	
c. Welding of reinforcement	X		SEC 2.1.7.7.2, 3.3.3.4 (c), 8.3.3.4 (b)	
d. Preparation, construction and protection of masonry during cold weather (temperatures below 40° F) or hot weather (temperatures above 90° F)		X		Art. 1.8 C, 1.8 D
e. Application and measurement of prestressing forces	X			Art. 3.6 B
f. Placement of grout and prestressing grout for bonded tendons is in compliance	X			Art. 3.5, , 3.6 C
g. Placement of AAC masonry units and construction if thin-bed mortar joints	X[b]	X[a]		Art. 3.3 B.8
5. Observe preparation of grout specimens, mortar specimens, and/or prims		X		Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

(a) Frequency refers to the frequency of inspection, which may be continuous during the task listed or periodically during listed task, as defined in the table.
(b) Required for the first 5000 square feet AAC masonry
(c) Required after the first 5000 square feet AAC masonry

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Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD
LEE'S SUMMIT, MO.

WOODSPRING SUITES®

Drawn By: AG
Checked By: AG
Document Date: 08/15/2023
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_B08
Project No. 31000541
Professional Seal

STATE OF MISSOURI
STEVEN N. BUSEY
NUMBER E-25461
PROFESSIONAL ENGINEER
08.15.2023

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GENERAL NOTES

Sheet No.

S0.1

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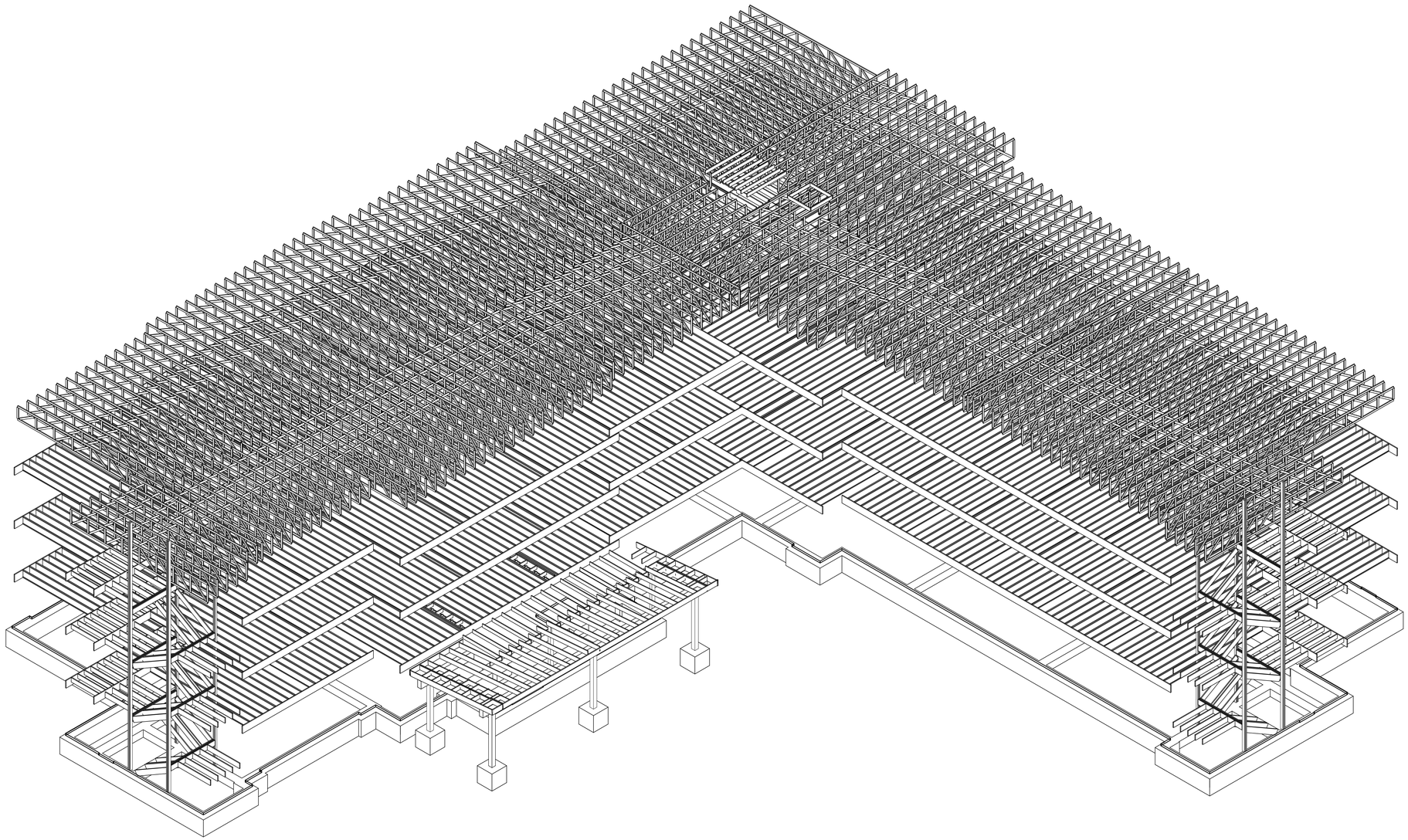

NOTES:

1.) ISOMETRIC VIEWS ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. ACTUAL CONSTRUCTION TO MATCH CONSTRUCTION DOCUMENTS. REFERENCE ARCHITECTURAL, MECHANICAL, CIVIL, & STRUCTURAL DOCUMENTS.

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ISOMETRIC

Sheet No.

S0.2

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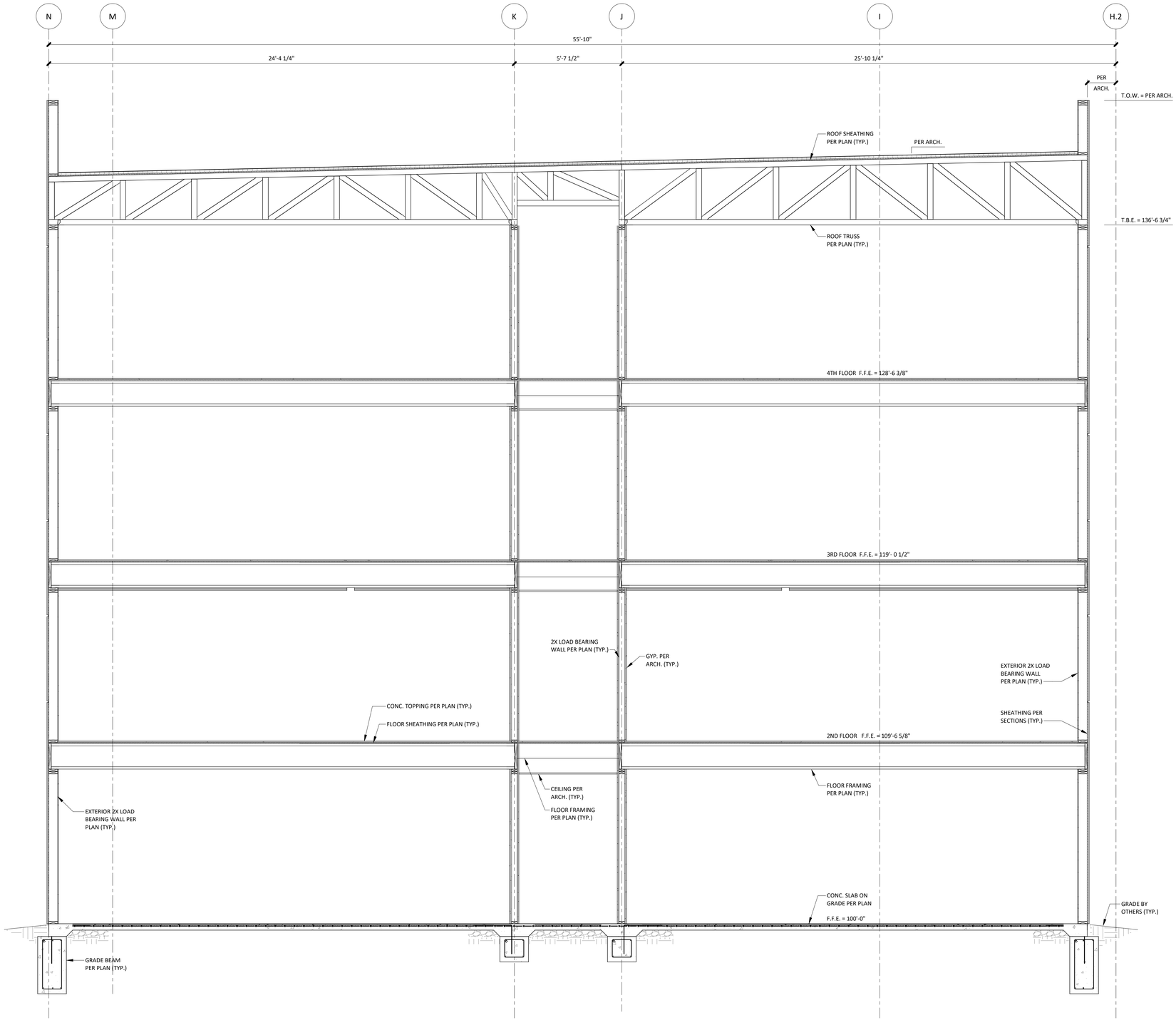

NOTES:

1.) BUILDING SECTIONS ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. ACTUAL CONSTRUCTION TO MATCH CONSTRUCTION DOCUMENTS. REFERENCE ARCHITECTURAL, MECHANICAL, CIVIL, & STRUCTURAL DOCUMENTS.

BUILDING SECTION | 01

3/8" = 1'-0" | S0.3

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Sheet Title

BUILDING SECTION

Sheet No.

S0.3

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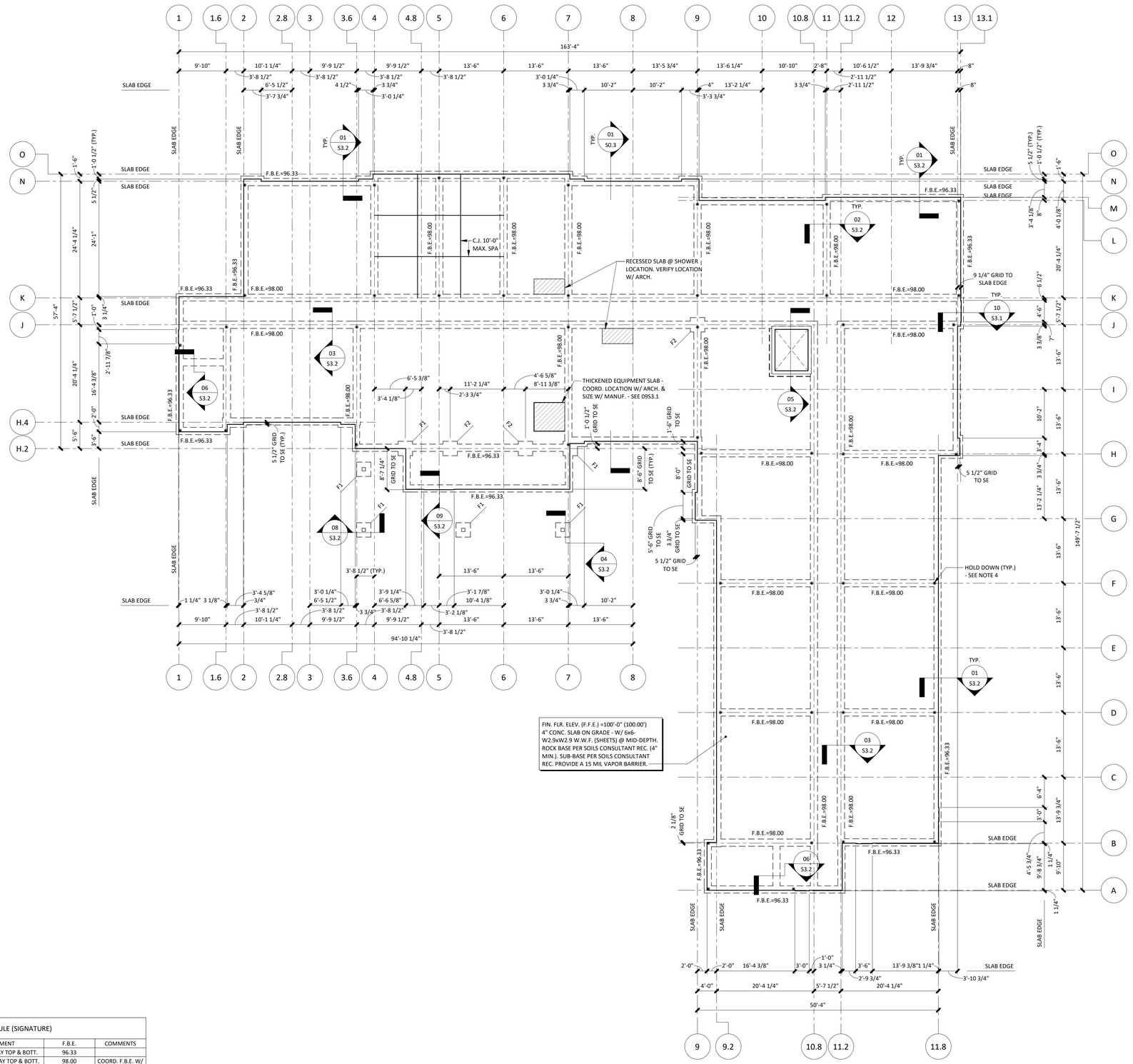

FIN. FLR. ELEV. (F.F.E.) =100'-0" (100.00')
4" CONC. SLAB ON GRADE - W/ 6x6-W2.9xW2.9 W.W.F. (SHEETS) @ MID-DEPTH. ROCK BASE PER SOILS CONSULTANT REC. (4" MIN.). SUB-BASE PER SOILS CONSULTANT REC. PROVIDE A 15 MIL VAPOR BARRIER.

FOUNDATION SCHEDULE (SIGNATURE)				
MARK	DIMENSIONS	REINFORCEMENT	F.B.E.	COMMENTS
F1	3'-0" x 3'-0" x 3'-0"	#5 @ 6" SPA. EA. WAY TOP & BOTT.	96.33	
F2	3'-0" x 3'-0" x 1'-4"	#5 @ 12" SPA. EA. WAY TOP & BOTT.	98.00	COORD. F.B.E. W/ CIVIL GRADING

NOTES:

1.) SEE DRAWING S0.0 FOR GENERAL NOTES, SYMBOLS LEGEND, MATERIALS LEGEND, & ABBREVIATION LIST.

2.) REFERENCE DRAWING S3.1 FOR TYPICAL FOUNDATION DETAILS INCLUDING ANCHOR ROD DETAILS, FOOTING STEP DETAILS, CONTROL JOINT & CONSTRUCTION JOINT DETAILS, REINF. LAP LENGTH TABLE, ETC.

3.) SEE DRAWING S0.2 FOR ISOMETRIC VIEW & S0.3 FOR FULL BUILDING SECTIONS.

4.) ● INDICATES HOLD DOWN LOCATION - REFER TO TYP. DETAILS

5.) CMU WALLS ARE 8" U.N.O.

6.) MESH SHALL BE SUPPORTED BY CHAIRS, CONC. BRICK, OR OTHER AT MID DEPTH OF SLAB AT SPACING AS REQUIRED BY G.C.

7.) REFER TO GEOTECHNICAL REPORT FOR ALL FILL & COMPACTION REQUIREMENTS.

8.) RAMMED AGGREGATE SUBGRADE IMPROVEMENT SYSTEM TO BE PROVIDED. FOUNDATIONS SHOWN ARE BASED ON AN ASSUMED SOIL BEARING CAPACITY OF 4000 PSF. ASSUMED CAPACITY IS TO BE CONFIRMED PRIOR TO CONSTRUCTION.

9.) REFER TO CIVIL PLANS FOR BUILDING ORIENTATION AND LOCATION ON THE SITE.

FOUNDATION PLAN | 01
3/32" = 1'-0" | S1.1

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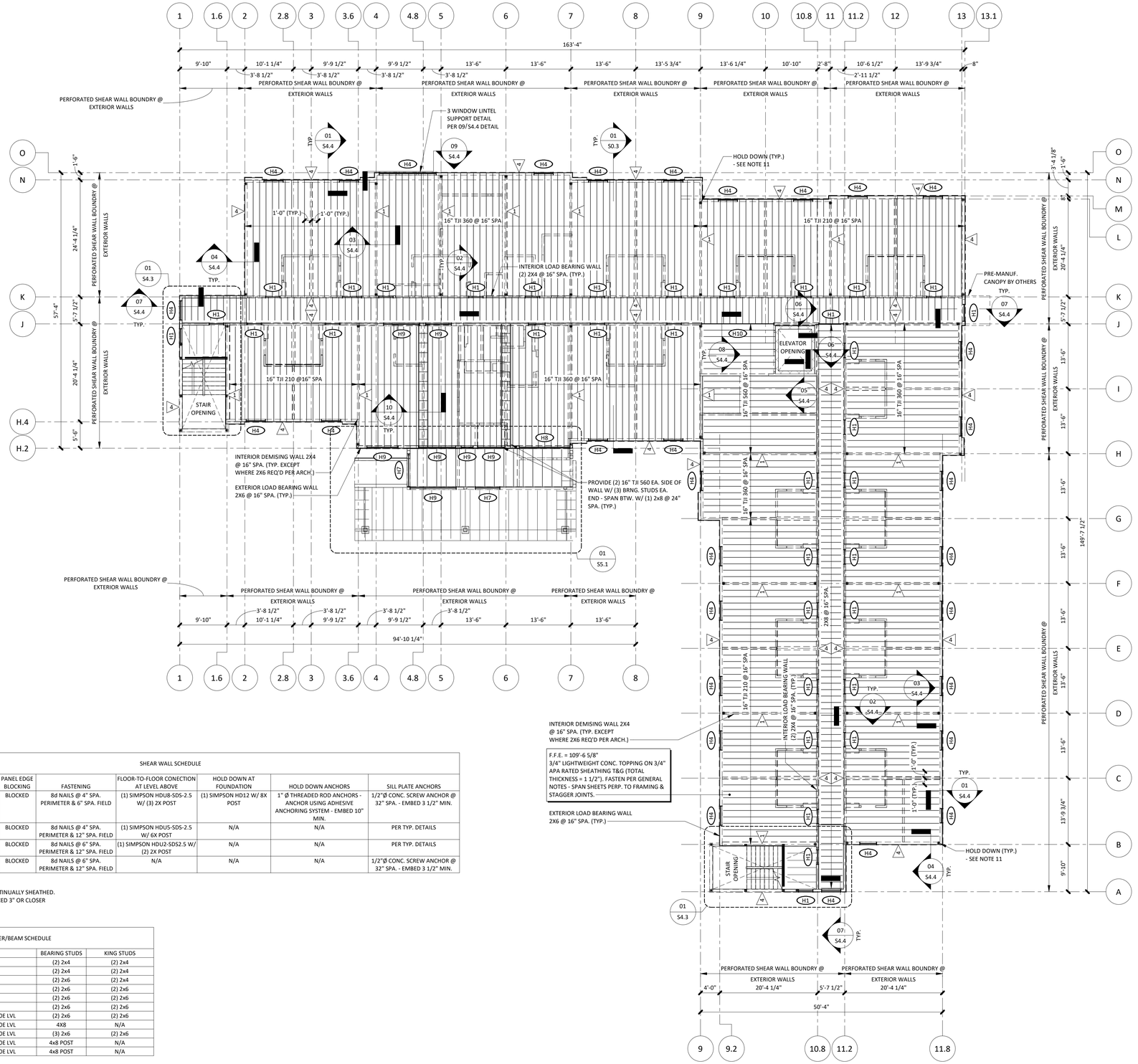
FOUNDATION PLAN

Sheet No.

S1.1



SHEAR WALL SCHEDULE							
SHEAR WALL MARK	SHEATHING MATERIAL	PANEL EDGE BLOCKING	FASTENING	FLOOR-TO-FLOOR CONECTION AT LEVEL ABOVE	HOLD DOWN AT FOUNDATION	HOLD DOWN ANCHORS	SILL PLATE ANCHORS
1	7/16" APA RATED SHEATHING (1) SIDE	BLOCKED	8d NAILS @ 4" SPA. PERIMETER & 6" SPA. FIELD	(1) SIMPSON HDU8-SDS-2.5 W/ (3) 2X POST	(1) SIMPSON HD12 W/ 8X POST	1" Ø THREADED ROD ANCHORS - ANCHOR USING ADHESIVE ANCHORING SYSTEM - EMBED 10" MIN.	1/2"Ø CONC. SCREW ANCHOR @ 32" SPA. - EMBED 3 1/2" MIN.
2	7/16" APA RATED SHEATHING (1) SIDE	BLOCKED	8d NAILS @ 4" SPA. PERIMETER & 12" SPA. FIELD	(1) SIMPSON HDU5-SDS-2.5 W/ 6X POST	N/A	N/A	PER TYP. DETAILS
3	7/16" APA RATED SHEATHING (1) SIDE	BLOCKED	8d NAILS @ 6" SPA. PERIMETER & 12" SPA. FIELD	(1) SIMPSON HDU2-SDS2.5 W/ (2) 2X POST	N/A	N/A	PER TYP. DETAILS
4	7/16" APA RATED SHEATHING (1) SIDE	BLOCKED	8d NAILS @ 6" SPA. PERIMETER & 12" SPA. FIELD	N/A	N/A	N/A	1/2"Ø CONC. SCREW ANCHOR @ 32" SPA. - EMBED 3 1/2" MIN.

NOTE:
1.) ALL CORRIDOR SHEAR WALLS TO BE CONTINUALLY SHEATHED.
2.) AT SHEATHING PANEL JOINTS NAILS SPACED 3" OR CLOSER SHALL FASTEN TO 3X OR (2)2X MEMBERS

HEADER/BEAM SCHEDULE			
MARK	SIZE	BEARING STUDS	KING STUDS
H1	(2) 2X8	(2) 2x4	(2) 2x4
H2	(2) 2X10	(2) 2x4	(2) 2x4
H3	(2) 2X12	(2) 2x6	(2) 2x4
H4	(3) 2X8	(2) 2x6	(2) 2x6
H5	(3) 2X10	(2) 2x6	(2) 2x6
H6	(3) 2X12	(2) 2x6	(2) 2x6
H7	(2) 1 3/4" x 16" 2.0E LVL	(2) 2x6	(2) 2x6
H8	(3) 1 3/4" x 16" 2.0E LVL	4X8	N/A
H9	(3) 1 3/4" x 16" 2.0E LVL	(3) 2x6	(2) 2x6
H10	(4) 1 3/4" x 16" 2.0E LVL	4x8 POST	N/A
H11	(5) 1 3/4" x 16" 2.0E LVL	4x8 POST	N/A

NOTE:
1.) UPSET HEADERS AS REQ'D. & PROVIDE SIMPSON HANGER
2.) BEARING STUDS REQUIRED AT EACH END OF HEADER PER HEADER SCHEDULE

NOTES:

1.) SEE DRAWING S0.0 FOR GENERAL NOTES, SYMBOLS LEGEND, MATERIALS LEGEND, & ABBREVIATION LIST.

2.) REFERENCE DRAWING S4.1 FOR TYPICAL FRAMING DETAILS.

3.) SEE DRAWING S0.2 FOR ISOMETRIC VIEW & S0.3 FOR FULL BUILDING SECTIONS.

4.) REFERENCE ARCHITECTURAL DRAWINGS TO VERIFY SIZE & LOCATIONS OF ALL ROOF & WALL OPENINGS.

5.) COORDINATE STEEL HSS COLUMNS AND ALL MISC. STEEL WITH ELEVATOR MANUF.

6.) (#) = DENOTES HEADER REFER TO SCHEDULE & TYP. DETAILS

7.) <#> = DENOTES SHEAR WALL SCHEDULE REFER TO SCHEDULE & TYP. DETAILS -SEE FOUNDATION PLAN HOLD DOWNS FOR EXTENTS OF SHEAR WALL BOUNDARIES

8.) NOT ALL HEADER LOCATIONS ARE SHOWN REF. ARCH. DRAWINGS FOR ALL WALL OPENING LOCATIONS

9.) CMU WALLS ARE 8" U.N.O.

10.) G.C. & TRUSS MANUF. TO COORD. FLOOR TRUSS LOCATIONS W/ VERT. PIPE LOCATIONS PER M.E.P. & ARCH. DRAWINGS.

11.) ✱ INDICATES HOLD DOWN LOCATION - REFER TO TYP. DETAILS. IF NO HOLD DOWN PRESENT, REFER TO PLAN DIMENSIONS FOR SHEAR WALL BOUNDARY LOCATIONS.

12.) G.C. TO COORDINATE FINAL LOCATION OF FLOOR FRAMING TO ACCOMMODATE PLUMBING CONDITIONS.

13.) REFER TO CIVIL PLANS FOR BUILDING ORIENTATION AND LOCATION ON THE SITE.

2ND FLOOR FRAMING PLAN | 01
3/32" = 1'-0" | S2.1

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2ND FLOOR FRAMING PLAN

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S2.1

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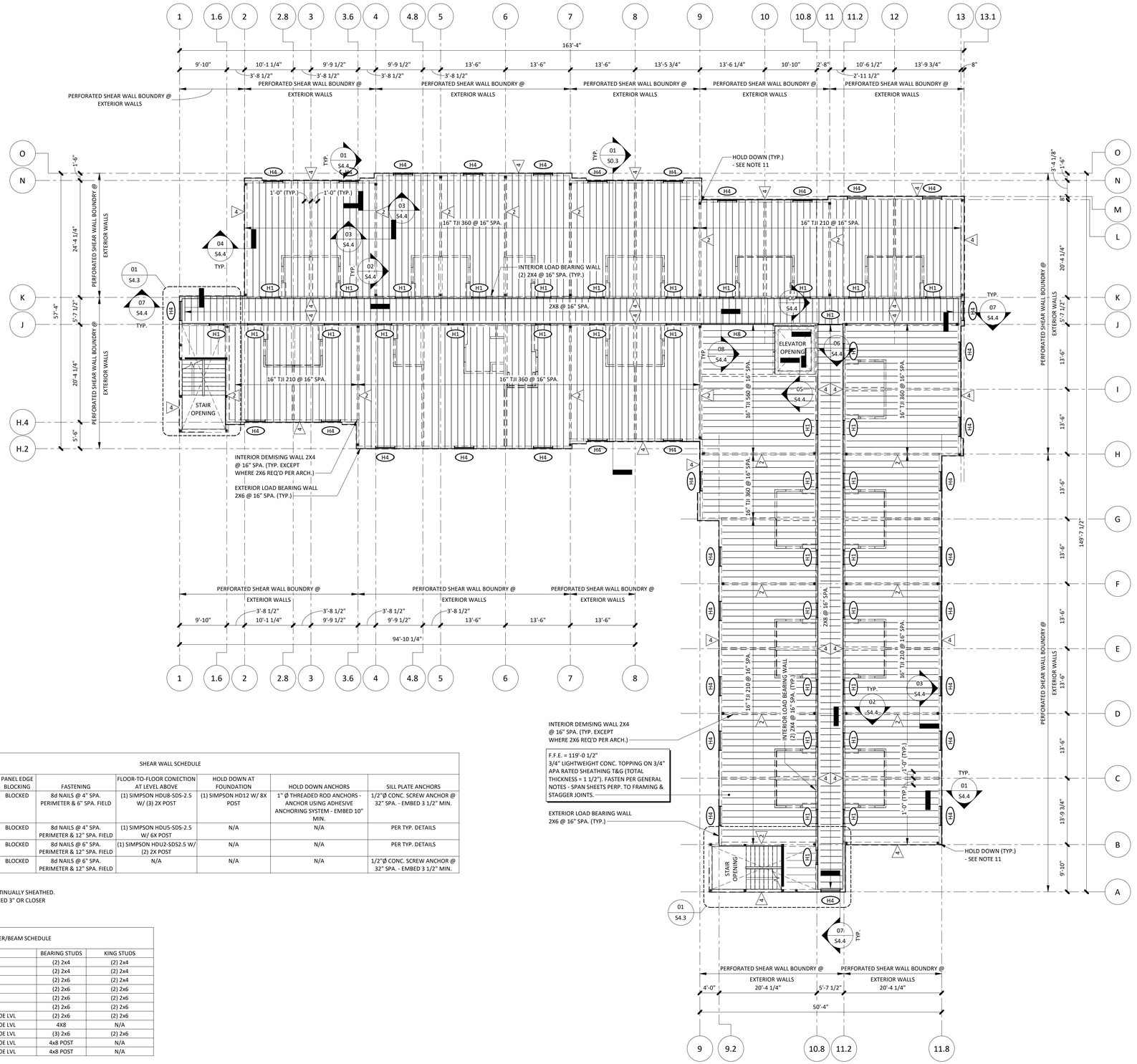

SHEAR WALL SCHEDULE							
SHEAR WALL MARK	SHEATHING MATERIAL	PANEL EDGE BLOCKING	FASTENING	FLOOR-TO-FLOOR CONECTION AT LEVEL ABOVE	HOLD DOWN AT FOUNDATION	HOLD DOWN ANCHORS	SILL PLATE ANCHORS
1	7/16" APA RATED SHEATHING (1) SIDE	BLOCKED	8d NAILS @ 4" SPA. PERIMETER & 6" SPA. FIELD	(1) SIMPSON HDU8-SDS-2.5 W/ (3) 2X POST	(1) SIMPSON HD12 W/ 8X POST	1" Ø THREADED ROD ANCHORS - ANCHOR USING ADHESIVE ANCHORING SYSTEM - EMBED 10" MIN.	1/2"Ø CONC. SCREW ANCHOR @ 32" SPA. - EMBED 3 1/2" MIN.
2	7/16" APA RATED SHEATHING (1) SIDE	BLOCKED	8d NAILS @ 4" SPA. PERIMETER & 12" SPA. FIELD	(1) SIMPSON HDU5-SDS-2.5 W/ 6X POST	N/A	N/A	PER TYP. DETAILS
3	7/16" APA RATED SHEATHING (1) SIDE	BLOCKED	8d NAILS @ 6" SPA. PERIMETER & 12" SPA. FIELD	(1) SIMPSON HDU2-SDS2.5 W/ (2) 2X POST	N/A	N/A	PER TYP. DETAILS
4	7/16" APA RATED SHEATHING (1) SIDE	BLOCKED	8d NAILS @ 6" SPA. PERIMETER & 12" SPA. FIELD	N/A	N/A	N/A	1/2"Ø CONC. SCREW ANCHOR @ 32" SPA. - EMBED 3 1/2" MIN.

NOTE:
1.) ALL CORRIDOR SHEAR WALLS TO BE CONTINUALLY SHEATHED.
2.) AT SHEATHING PANEL JOINTS NAILS SPACED 3" OR CLOSER SHALL FASTEN TO 3X OR (2)2X MEMBERS

HEADER/BEAM SCHEDULE			
MARK	SIZE	BEARING STUDS	KING STUDS
H1	(2) 2X8	(2) 2x4	(2) 2x4
H2	(2) 2X10	(2) 2x4	(2) 2x4
H3	(2) 2X12	(2) 2x6	(2) 2x4
H4	(3) 2X8	(2) 2x6	(2) 2x6
H5	(3) 2X10	(2) 2x6	(2) 2x6
H6	(3) 2X12	(2) 2x6	(2) 2x6
H7	(2) 1 3/4" x 16" 2.0E LVL	(2) 2x6	(2) 2x6
H8	(3) 1 3/4" x 16" 2.0E LVL	4X8	N/A
H9	(3) 1 3/4" x 16" 2.0E LVL	(3) 2x6	(2) 2x6
H10	(4) 1 3/4" x 16" 2.0E LVL	4x8 POST	N/A
H11	(5) 1 3/4" x 16" 2.0E LVL	4x8 POST	N/A

NOTE:
1.) UPSET HEADERS AS REQ'D. & PROVIDE SIMPSON HANGER
2.) BEARING STUDS REQUIRED AT EACH END OF HEADER PER HEADER SCHEDULE

NOTES:

1.) SEE DRAWING S0.0 FOR GENERAL NOTES, SYMBOLS LEGEND, MATERIALS LEGEND, & ABBREVIATION LIST.

2.) REFERENCE DRAWING S4.1 FOR TYPICAL FRAMING DETAILS.

3.) SEE DRAWING S0.2 FOR ISOMETRIC VIEW & S0.3 FOR FULL BUILDING SECTIONS.

4.) REFERENCE ARCHITECTURAL DRAWINGS TO VERIFY SIZE & LOCATIONS OF ALL ROOF & WALL OPENINGS.

5.) COORDINATE STEEL HSS COLUMNS AND ALL MISC. STEEL WITH ELEVATOR MANUF.

6.) (#) = DENOTES HEADER REFER TO SCHEDULE & TYP. DETAILS

7.) <#> = DENOTES SHEAR WALL SCHEDULE REFER TO SCHEDULE & TYP. DETAILS -SEE FOUNDATION PLAN HOLD DOWNS FOR EXTENTS OF SHEAR WALL BOUNDARIES

8.) NOT ALL HEADER LOCATIONS ARE SHOWN REF. ARCH. DRAWINGS FOR ALL WALL OPENING LOCATIONS

9.) CMU WALLS ARE 8" U.N.O.

10.) G.C. & TRUSS MANUF. TO COORD. FLOOR TRUSS LOCATIONS W/ VERT. PIPE LOCATIONS PER M.E.P. & ARCH. DRAWINGS.

11.) ✱ INDICATES HOLD DOWN LOCATION - REFER TO TYP. DETAILS. IF NO HOLD DOWN PRESENT, REFER TO PLAN DIMENSIONS FOR SHEAR WALL BOUNDARY LOCATIONS.

12.) G.C. TO COORDINATE FINAL LOCATION OF FLOOR FRAMING TO ACCOMMODATE PLUMBING CONDITIONS.

13.) REFER TO CIVIL PLANS FOR BUILDING ORIENTATION AND LOCATION ON THE SITE.

3RD FLOOR FRAMING PLAN | 01
3/32" = 1'-0" | S2.2

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Document Date: 08/15/2023
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_B08

Project No.

31000541

Professional Seal

STATE OF MISSOURI · STEVEN N. BUSEY · NUMBER E-25461 · PROFESSIONAL ENGINEER
08.14.23

Sheet Title

3RD FLOOR FRAMING PLAN

Sheet No.

S2.2

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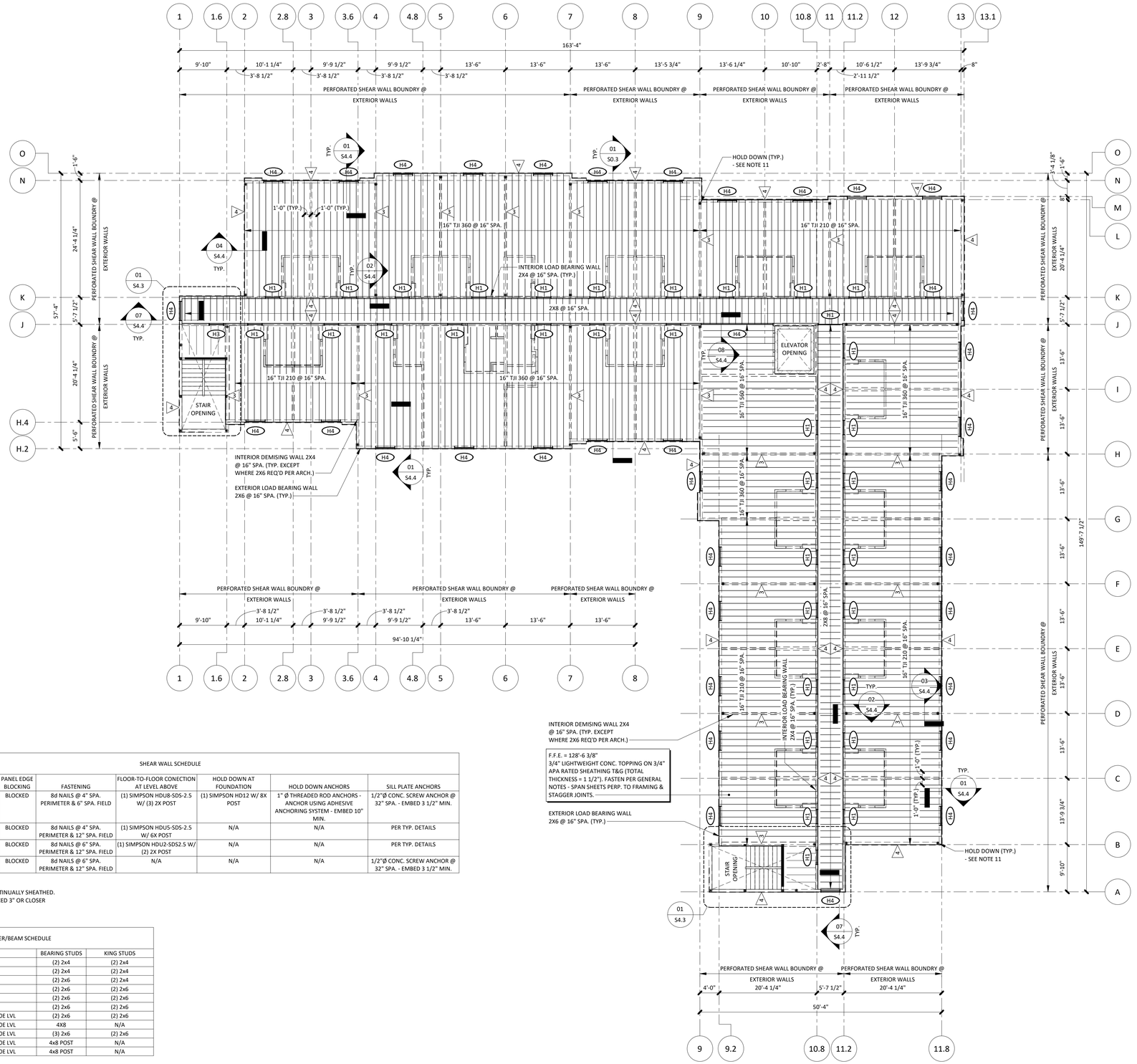

SHEAR WALL SCHEDULE							
SHEAR WALL MARK	SHEATHING MATERIAL	PANEL EDGE BLOCKING	FASTENING	FLOOR-TO-FLOOR CONECTION AT LEVEL ABOVE	HOLD DOWN AT FOUNDATION	HOLD DOWN ANCHORS	SILL PLATE ANCHORS
1	7/16" APA RATED SHEATHING (1) SIDE	BLOCKED	8d NAILS @ 4" SPA. PERIMETER & 6" SPA. FIELD	(1) SIMPSON HDU8-SDS-2.5 W/ (3) 2X POST	(1) SIMPSON HD12 W/ 8X POST	1" Ø THREADED ROD ANCHORS - ANCHOR USING ADHESIVE ANCHORING SYSTEM - EMBED 10" MIN.	1/2"Ø CONC. SCREW ANCHOR @ 32" SPA. - EMBED 3 1/2" MIN.
2	7/16" APA RATED SHEATHING (1) SIDE	BLOCKED	8d NAILS @ 4" SPA. PERIMETER & 12" SPA. FIELD	(1) SIMPSON HDU5-SDS-2.5 W/ 6X POST	N/A	N/A	PER TYP. DETAILS
3	7/16" APA RATED SHEATHING (1) SIDE	BLOCKED	8d NAILS @ 6" SPA. PERIMETER & 12" SPA. FIELD	(1) SIMPSON HDU2-SDS2.5 W/ (2) 2X POST	N/A	N/A	PER TYP. DETAILS
4	7/16" APA RATED SHEATHING (1) SIDE	BLOCKED	8d NAILS @ 6" SPA. PERIMETER & 12" SPA. FIELD	N/A	N/A	N/A	1/2"Ø CONC. SCREW ANCHOR @ 32" SPA. - EMBED 3 1/2" MIN.

NOTE:
1.) ALL CORRIDOR SHEAR WALLS TO BE CONTINUALLY SHEATHED.
2.) AT SHEATHING PANEL JOINTS NAILS SPACED 3" OR CLOSER SHALL FASTEN TO 3X OR (2)2X MEMBERS

HEADER/BEAM SCHEDULE			
MARK	SIZE	BEARING STUDS	KING STUDS
H1	(2) 2X8	(2) 2x4	(2) 2x4
H2	(2) 2X10	(2) 2x4	(2) 2x4
H3	(2) 2X12	(2) 2x6	(2) 2x4
H4	(3) 2X8	(2) 2x6	(2) 2x6
H5	(3) 2X10	(2) 2x6	(2) 2x6
H6	(3) 2X12	(2) 2x6	(2) 2x6
H7	(2) 1 3/4" x 16" 2.0E LVL	(2) 2x6	(2) 2x6
H8	(3) 1 3/4" x 16" 2.0E LVL	4X8	N/A
H9	(3) 1 3/4" x 16" 2.0E LVL	(3) 2x6	(2) 2x6
H10	(4) 1 3/4" x 16" 2.0E LVL	4x8 POST	N/A
H11	(5) 1 3/4" x 16" 2.0E LVL	4x8 POST	N/A

NOTE:
1.) UPSET HEADERS AS REQ'D. & PROVIDE SIMPSON HANGER
2.) BEARING STUDS REQUIRED AT EACH END OF HEADER PER HEADER SCHEDULE

NOTES:

1.) SEE DRAWING S0.0 FOR GENERAL NOTES, SYMBOLS LEGEND, MATERIALS LEGEND, & ABBREVIATION LIST.

2.) REFERENCE DRAWING S4.1 FOR TYPICAL FRAMING DETAILS.

3.) SEE DRAWING S0.2 FOR ISOMETRIC VIEW & S0.3 FOR FULL BUILDING SECTIONS.

4.) REFERENCE ARCHITECTURAL DRAWINGS TO VERIFY SIZE & LOCATIONS OF ALL ROOF & WALL OPENINGS.

5.) COORDINATE STEEL HSS COLUMNS AND ALL MISC. STEEL WITH ELEVATOR MANUF.

6.) (#) = DENOTES HEADER REFER TO SCHEDULE & TYP. DETAILS

7.) (#/#) = DENOTES SHEAR WALL SCHEDULE REFER TO SCHEDULE & TYP. DETAILS -SEE FOUNDATION PLAN HOLD DOWNS FOR EXTENTS OF SHEAR WALL BOUNDARIES

8.) NOT ALL HEADER LOCATIONS ARE SHOWN REF. ARCH. DRAWINGS FOR ALL WALL OPENING LOCATIONS

9.) CMU WALLS ARE 8" U.N.O.

10.) G.C. & TRUSS MANUF. TO COORD. FLOOR TRUSS LOCATIONS W/ VERT. PIPE LOCATIONS PER M.E.P. & ARCH. DRAWINGS.

11.) ✱ INDICATES HOLD DOWN LOCATION - REFER TO TYP. DETAILS. IF NO HOLD DOWN PRESENT, REFER TO PLAN DIMENSIONS FOR SHEAR WALL BOUNDARY LOCATIONS.

12.) G.C. TO COORDINATE FINAL LOCATION OF FLOOR FRAMING TO ACCOMMODATE PLUMBING CONDITIONS.

13.) REFER TO CIVIL PLANS FOR BUILDING ORIENTATION AND LOCATION ON THE SITE.

4TH FLOOR FRAMING PLAN | 01
3/32" = 1'-0" | S2.3

8/15/2023 6:07:00 PM

brr

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Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD
LEE'S SUMMIT, MO.

WOODSPRING SUITES

Drawn By: AG
Checked By: AG
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STATE OF MISSOURI · STEVEN N. RUSEV · NUMBER E-25461 · PROFESSIONAL ENGINEER · 08.14.23

Sheet Title

4TH FLOOR FRAMING PLAN

Sheet No.

S2.3

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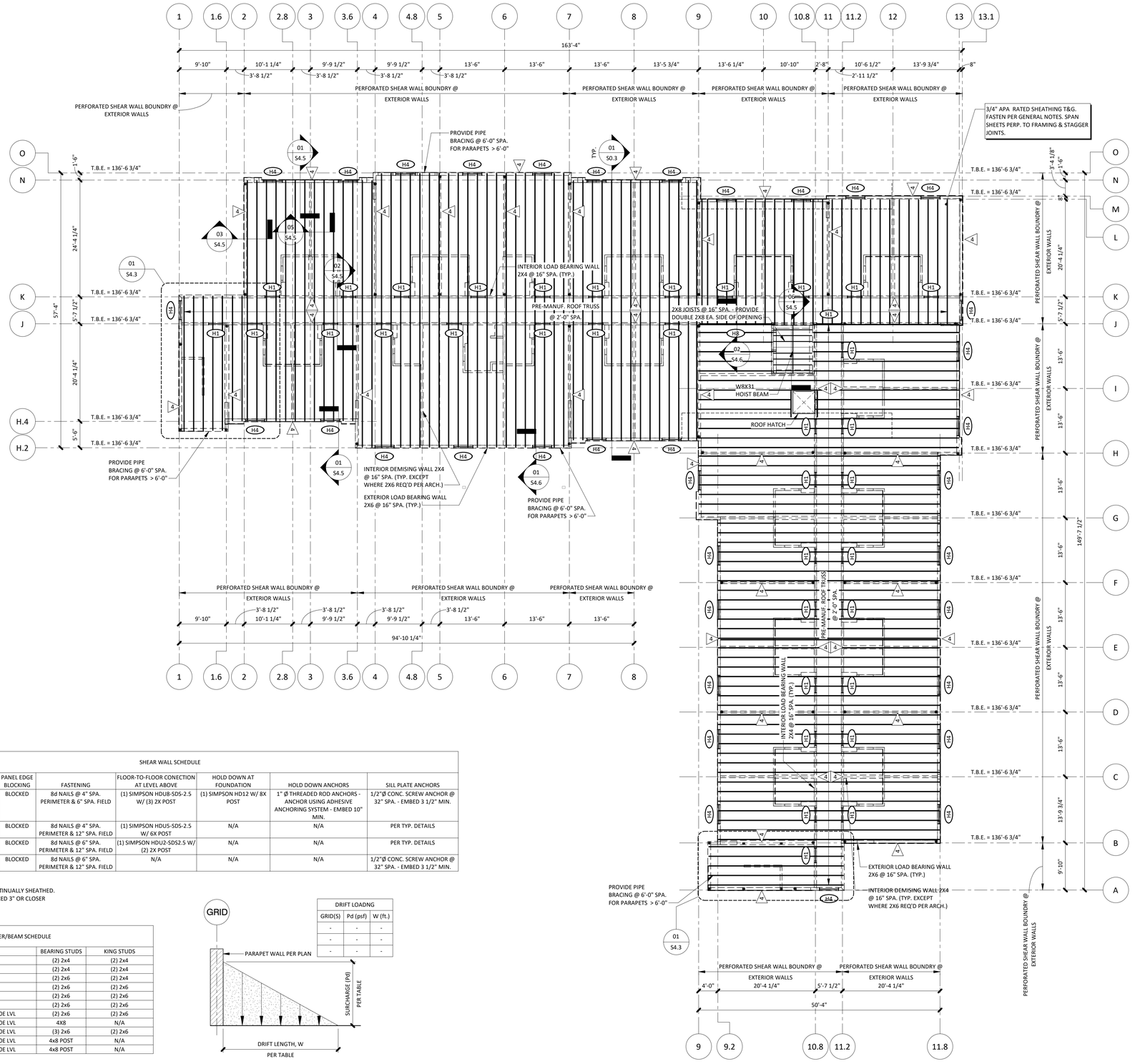

SHEAR WALL SCHEDULE							
SHEAR WALL MARK	SHEATHING MATERIAL	PANEL EDGE BLOCKING	FASTENING	FLOOR-TO-FLOOR CONECTION AT LEVEL ABOVE	HOLD DOWN AT FOUNDATION	HOLD DOWN ANCHORS	SILL PLATE ANCHORS
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3	7/16" APA RATED SHEATHING (1) SIDE	BLOCKED	8d NAILS @ 6" SPA. PERIMETER & 12" SPA. FIELD	(1) SIMPSON HDU2-SDS2.5 W/ (2) 2X POST	N/A	N/A	PER TYP. DETAILS
4	7/16" APA RATED SHEATHING (1) SIDE	BLOCKED	8d NAILS @ 6" SPA. PERIMETER & 12" SPA. FIELD	N/A	N/A	N/A	1/2"Ø CONC. SCREW ANCHOR @ 32" SPA. - EMBED 3 1/2" MIN.

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H8	(3) 1 3/4" x 16" 2.0E LVL	4X8	N/A
H9	(3) 1 3/4" x 16" 2.0E LVL	(3) 2x6	(2) 2x6
H10	(4) 1 3/4" x 16" 2.0E LVL	4x8 POST	N/A
H11	(5) 1 3/4" x 16" 2.0E LVL	4x8 POST	N/A

NOTE:
1.) UPSET HEADERS AS REQ'D. & PROVIDE SIMPSON HANGER
2.) BEARING STUDS REQUIRED AT EACH END OF HEADER PER HEADER SCHEDULE

DRIFT LOADNG		
GRID(S)	Pd (psf)	W (ft.)
-	-	-
-	-	-
-	-	-

SNOW DRIFT DIAGRAM | 02
3/8" = 1'-0" | S2.4

NOTES:

1.) SEE DRAWING S0.0 FOR GENERAL NOTES, SYMBOLS LEGEND, MATERIALS LEGEND, & ABBREVIATION LIST.

2.) REFERENCE DRAWING S4.1 FOR TYPICAL FRAMING DETAILS.

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13.) REFER TO CIVIL PLANS FOR BUILDING ORIENTATION AND LOCATION ON THE SITE.

ROOF FRAMING PLAN | 01
3/32" = 1'-0" | S2.4

brr

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Professional Seal

STATE OF MISSOURI · STEVEN N. BUSEY · NUMBER E-25461 · PROFESSIONAL ENGINEER
08.15.23

Sheet Title

ROOF FRAMING PLAN

Sheet No.

S2.4

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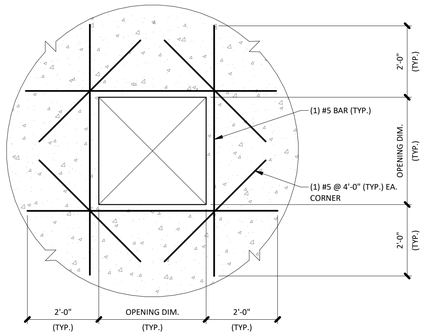
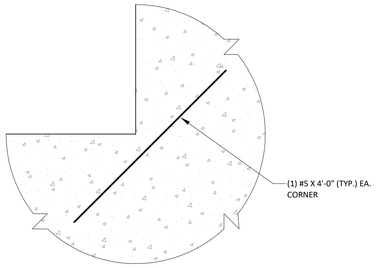


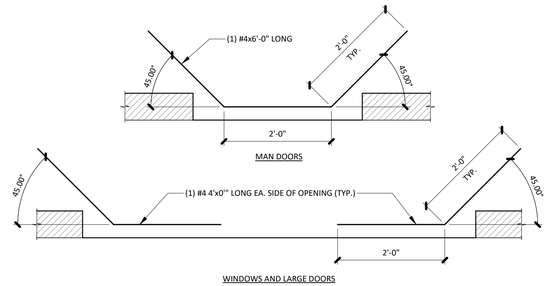
TYP. SLAB OPENING DETAIL | 01

1/2" = 1'-0" | S3.1



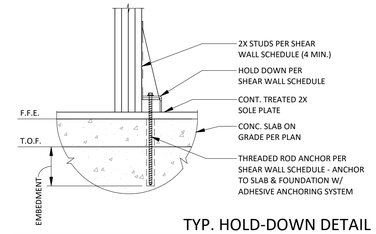
TYP. RE-ENTRANT CORNER REINF. DETAIL | 02

3/4" = 1'-0" | S3.1



TYP. SLAB REINF. @ DOOR DETAIL | 03

3/4" = 1'-0" | S3.1



TYP. HOLD-DOWN DETAIL | 04

3/4" = 1'-0" | S3.1

TENSION LAP SPLICE LENGTHS (in) GRADE 60 UNCOATED BARS f'c=3000 psi					
BAR SIZE	LAP CLASS	TOP BARS		OTHER BARS	
		CASE 1	CASE 2	CASE 1	CASE 2
#3	A	22	32	17	25
	B	28	42	22	32
#4	A	29	43	22	33
	B	37	56	29	43
#5	A	36	54	28	41
	B	47	70	36	54
#6	A	43	64	33	50
	B	56	84	43	64
#7	A	63	94	48	72
	B	81	122	63	94
#8	A	72	107	55	82
	B	93	139	72	107
#9	A	81	121	62	93
	B	105	157	81	121
#10	A	91	136	70	105
	B	118	177	91	136
#11	A	101	151	78	116
	B	131	196	101	151

NOTES:

1. TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL-WEIGHT CONCRETE.

2. TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS ARE BASED ON ACI 318-02, SECTIONS 12.2.2 AND 12.15, RESPECTIVELY.

3. TABULATED VALUES FOR BEMAS OR COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT AND CONCRETE COVER MEETING MINIMUM CODE REQUIREMENTS. LENGTHS ARE IN INCHES.

4. CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER, AND THE CENTER-TO-CENTER SPACING OF THE BARS ARE DEFINED AS:

BEAMS OR COLUMNS:
CASE 1: COVER AT LEAST (1) BAR DIAMETER AND C.-C. SPACING AT LEAST (2) BAR DIAMETERS

CASE 2: COVER LESS THAN (1) BAR DIAMETER AND C.-C. SPACING LESS THAN (2) BAR DIAMETERS

ALL OTHERS:
CASE 1: COVER AT LEAST (1) BAR DIAMETER AND C.-C. SPACING AT LEAST (3) BAR DIAMETERS

CASE 2: COVER LESS THAN (1) BAR DIAMETER AND C.-C. SPACING LESS THAN (3) BAR DIAMETERS

5. LAP CLASS A VALUES ARE THE REQUIRED TENSION DEVELOPMENT LENGTHS, ld; LAP SPLCE LENGTHS ARE MULTIPLES OF TENSION DEVELOPMENT LENGTHS; CLASS A - 1.0ld AND CLASS B = 1.3ld (ACI 318-02, SECTION 12.15.1)

6. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.

LAP SPLICE LENGTHS f'c=3000 psi | 05

1/2" = 1'-0" | S3.1

TENSION LAP SPLICE LENGTHS (in) GRADE 60 UNCOATED BARS f'c=4000 psi					
BAR SIZE	LAP CLASS	TOP BARS		OTHER BARS	
		CASE 1	CASE 2	CASE 1	CASE 2
#3	A	19	28	15	22
	B	24	36	19	28
#4	A	25	37	19	29
	B	32	48	25	37
#5	A	31	47	24	36
	B	40	60	31	47
#6	A	37	56	29	43
	B	48	72	37	56
#7	A	54	81	42	63
	B	70	106	54	81
#8	A	62	93	48	72
	B	80	121	62	93
#9	A	70	105	54	81
	B	91	136	70	105
#10	A	79	118	61	91
	B	102	153	79	118
#11	A	87	131	67	101
	B	113	170	87	131

NOTES:

1. TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL-WEIGHT CONCRETE.

2. TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS ARE BASED ON ACI 318-02, SECTIONS 12.2.2 AND 12.15, RESPECTIVELY.

3. TABULATED VALUES FOR BEMAS OR COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT AND CONCRETE COVER MEETING MINIMUM CODE REQUIREMENTS. LENGTHS ARE IN INCHES.

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BEAMS OR COLUMNS:
CASE 1: COVER AT LEAST (1) BAR DIAMETER AND C.-C. SPACING AT LEAST (2) BAR DIAMETERS

CASE 2: COVER LESS THAN (1) BAR DIAMETER AND C.-C. SPACING LESS THAN (2) BAR DIAMETERS

ALL OTHERS:
CASE 1: COVER AT LEAST (1) BAR DIAMETER AND C.-C. SPACING AT LEAST (3) BAR DIAMETERS

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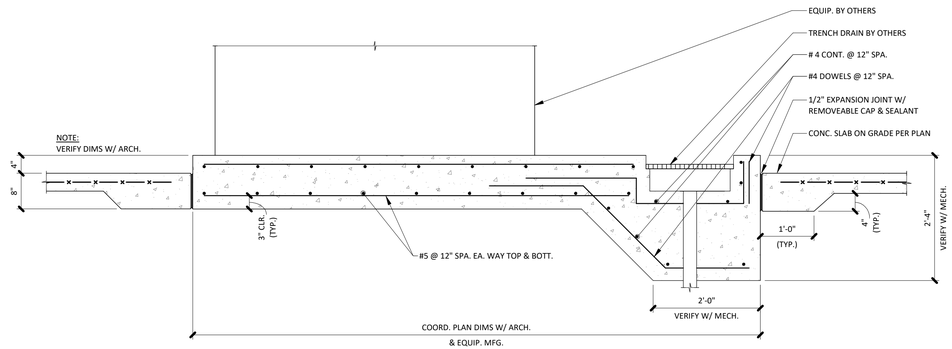
6. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.

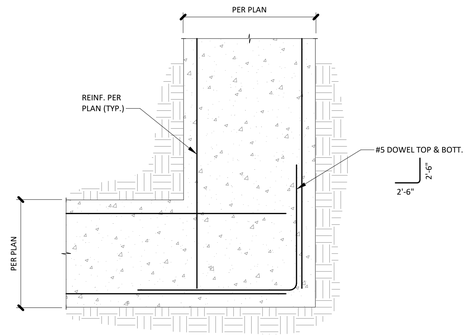
LAP SPLICE LENGTHS f'c=4000 psi | 06

1/2" = 1'-0" | S3.1

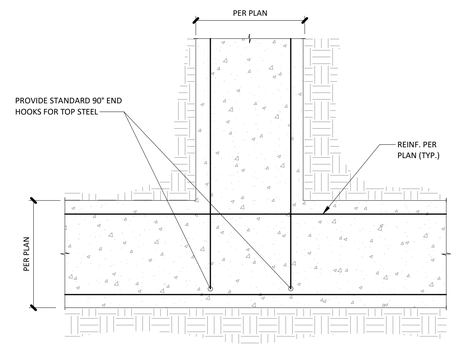


TYP. EQUIP. SLAB DETAIL | 08

3/4" = 1'-0" | S3.1



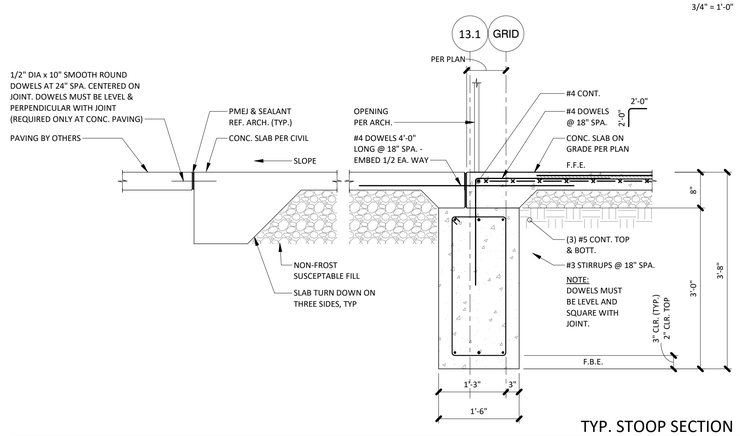
NOTE:
GRADE BEAMS SHALL BE POURED MONOLITHICALLY AROUND CORNERS.



NOTE:
GRADE BEAMS SHALL BE POURED MONOLITHICALLY AT INTERSECTIONS.

TYP. GRADE BEAM DETAILS | 07

3/4" = 1'-0" | S3.1



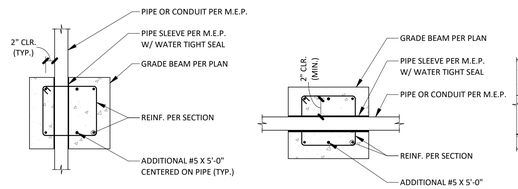
TYP. STOOP SECTION | 10

3/4" = 1'-0" | S3.1

STANDARD HOOK TABLE	
BAR SIZE	HOOK
#4	8 in.
#5	10 in.
#6	12 in.
#7	14 in.
#8	16 in.

STANDARD 90° HOOK TABLE | 09

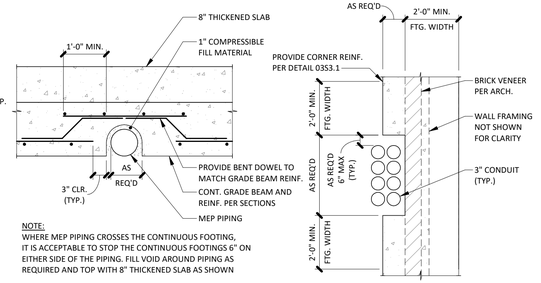
12" = 1'-0" | S3.1



NOTE:

CENTER BAR IN GRADE BEAM ALLOWED TO BE MOVED TO PROVIDE 2" CLEAR BY PIPING. ADD #6 ON OPPOSITE SIDE OF PIPING EXTENDING 3'-0" EACH SIDE OF PIPE.

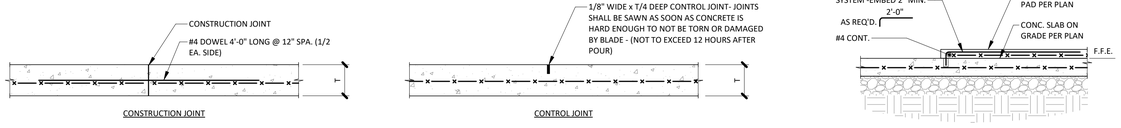
COORDINATE LOCATION OF PIPING WITH M.E.P. ACCEPTABLE TO TURN PIPE IN THE MIDDLE THIRD OF GRADE BEAM AND EXIT THROUGH THE SIDE OF THE GRADE BEAM. ADDITIONAL #6 BAR SHOWN ONLY REQUIRED WHEN PIPING PASSES THROUGH TOP OR BOTTOM OF GRADE BEAM.



NOTE:
WHERE MEP PIPING CROSSES THE CONTINUOUS FOOTING, IT IS ACCEPTABLE TO STOP THE CONTINUOUS FOOTINGS 6" ON EITHER SIDE OF THE PIPING. FILL VOID AROUND PIPING AS REQUIRED AND TOP WITH 8" THICKENED SLAB AS SHOWN

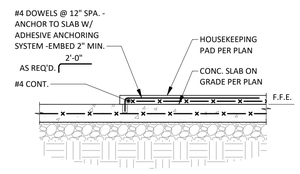
TYPICAL GRADE BEAM PENETRATION DETAILS | 13

3/4" = 1'-0" | S3.1



TYP. CONTROL & CONST. JOINT DETAIL | 11

3/4" = 1'-0" | S3.1



TYP. HOUSEKEEPING PAD DETAIL | 12

3/4" = 1'-0" | S3.1

8/15/2023 6:07:07 PM

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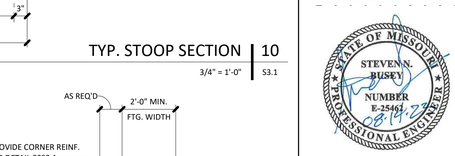
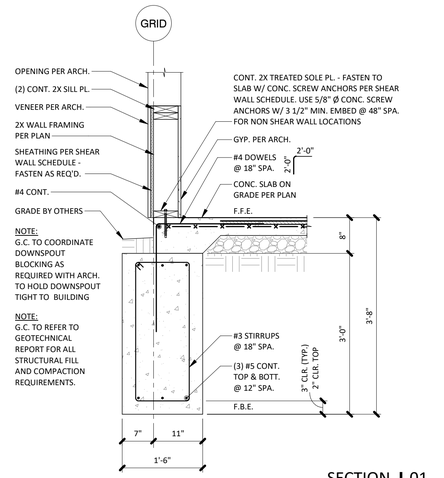


Sheet Title

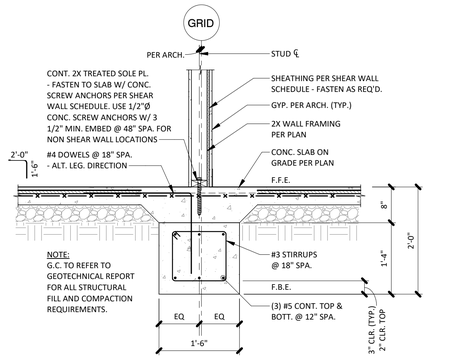
TYPICAL FOUNDATION DETAILS

Sheet No.

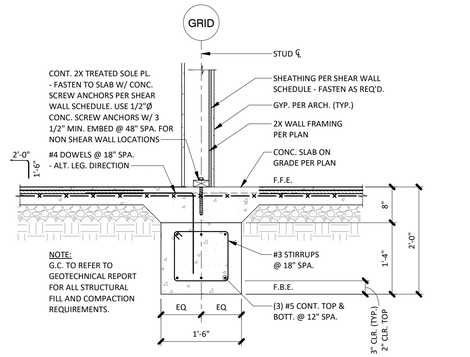
S3.1



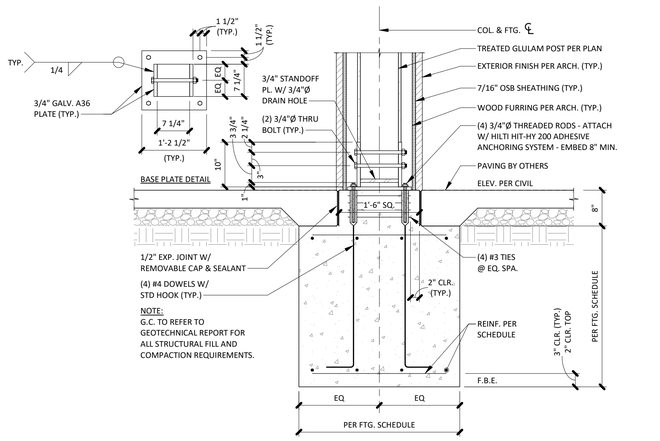
SECTION | 01
3/4" = 1'-0" | S3.2



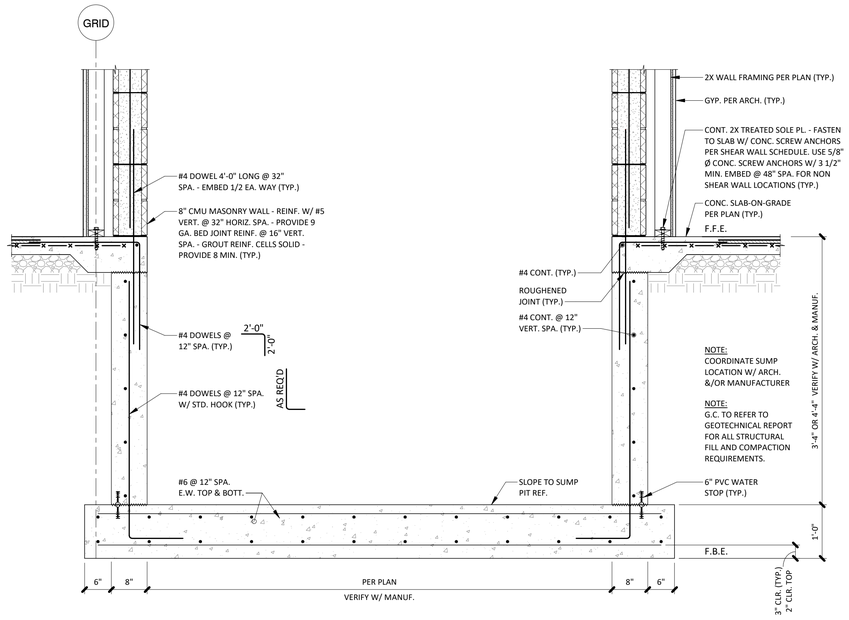
SECTION | 02
3/4" = 1'-0" | S3.2



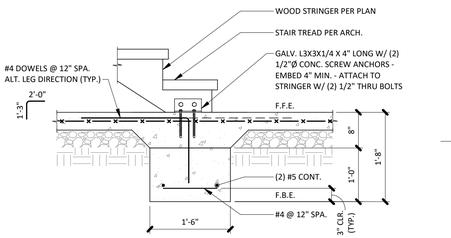
SECTION | 03
3/4" = 1'-0" | S3.2



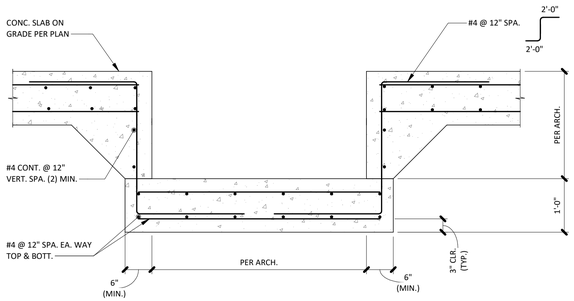
SECTION | 04
3/4" = 1'-0" | S3.2



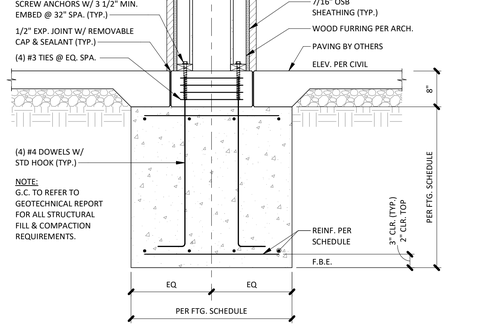
SECTION | 05
3/4" = 1'-0" | S3.2



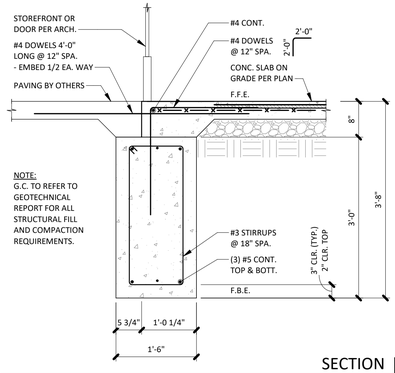
SECTION | 06
3/4" = 1'-0" | S3.2



ELEVATOR SUMP PIT DETAIL | 07
3/4" = 1'-0" | S3.2



SECTION | 08
3/4" = 1'-0" | S3.2



SECTION | 09
3/4" = 1'-0" | S3.2

8/15/2023 6:07:10 PM

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BRR Architecture, Inc.

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Tel: 913-262-9095
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Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD
LEE'S SUMMIT, MO.

Drawn By: AG
Checked By: AG
Document Date: 08/15/2023
Protocycle: WSS_v5_2023.1 (05/05/23)
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Project No.

31000541

Professional Seal

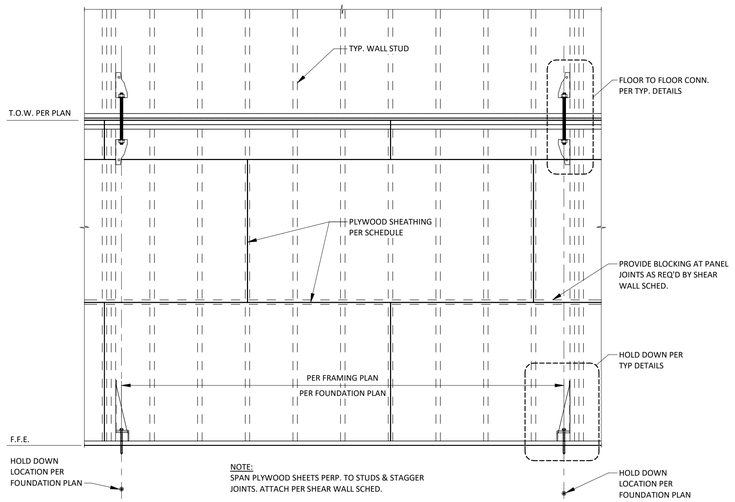
STATE OF MISSOURI
STEVEN N. BUSEY
NUMBER E-25461
REGISTERED PROFESSIONAL ENGINEER
08/15/2023

Sheet Title

FOUNDATION DETAILS

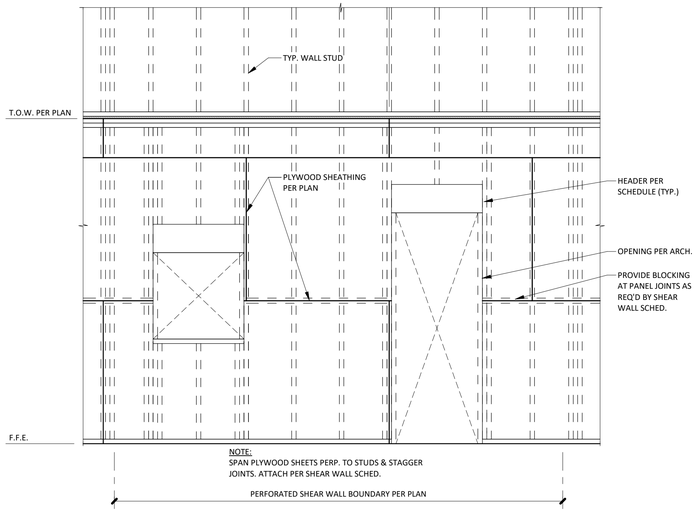
Sheet No.

S3.2



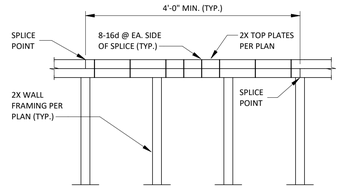
TYP. MULTI FLOOR SHEAR WALL ELEVATION DETAIL | 01

1/2" = 1'-0" | S4.1



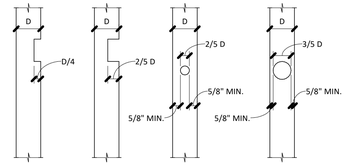
TYP. MULTI FLOOR PERFORATED SHEAR WALL ELEVATION DETAIL | 02

1/2" = 1'-0" | S4.1



TYP. TOP CHORD SPLICE DETAIL | 03

N.T.S. | S4.1



25% ALLOWED IN EXTERIOR AND BEARING WALLS

40% ALLOWED IN ANY NON-BEARING WALL

40% ALLOWED IN ANY WALL

60% ALLOWED IN ANY NON-BEARING WALL. ALLOWED IN BEARING WALL STUD IF STUDS ARE DOUBLED AND NOT MORE THAN TWO SUCCESSIVE STUDS ARE BORED AND DOUBLED

WOOD STUDS

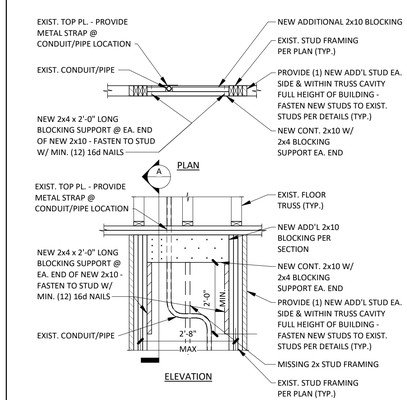
NOTE:
1.) BORED HOLES & NOTCHES FOR STUDS SHALL NOT OCCUR AT THE SAME SECTION OF THE MEMBER.

2.) LARGER BORED HOLES & NOTCHES FOR STUDS SHALL NOT BE USED UNLESS APPROVED BY THE E.O.R

3.) BUILT UP STUD PACKS CONSISTING OF MORE THAN (2) STUDS SHALL NOT BE BORED OR NOTCHED UNLESS APPROVED BY THE E.O.R.

ALLOWABLE WOOD NOTCHES & PENETRATIONS | 04

3/4" = 1'-0" | S4.1



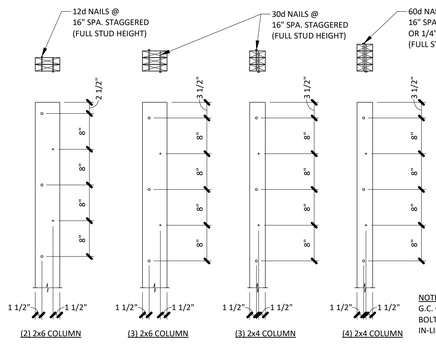
TYP. STUD PENETRATION DETAIL | 06

3/4" = 1'-0" | S4.1

NOTE:
1. IN ADDITION TO FRAMING SHOWN, G.C. TO PROVIDE ADDITIONAL FLAT BLOCKING BETWEEN STUDS AS REQ'D. TO SUPPORT WALL SHEATHING
2. CONTACT E.O.R. IF EXIST. STUD FRAMING IS FURTHER THAN SHOWN OR IF CONDUIT/ PIPING TAKES UP MORE THAN STUD WIDTH - 1 1/2".

REQ'D BLOCKING @ CONDUIT/PIPE & FRAMING INTERFERENCE LOCATIONS | 10

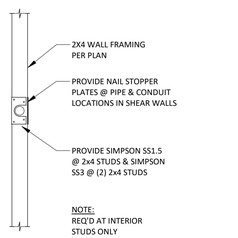
1/2" = 1'-0" | S4.1



NOTE:
G.C. OPTION TO USE 1/4" THRU BOLTS FOR ALL CONDITIONS IN-LIEU OF NAILS

TYP. BUILT UP COLUMN DETAIL | 13

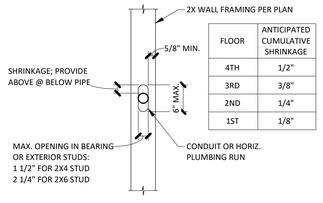
3/4" = 1'-0" | S4.1



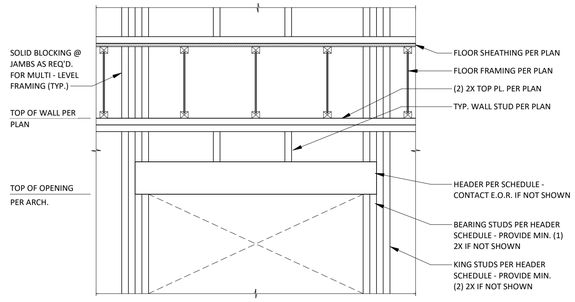
NOTE:
REQ'D AT INTERIOR STUDS ONLY

TYP. STUD PENETRATION - SHRINKAGE | 07

3/4" = 1'-0" | S4.1

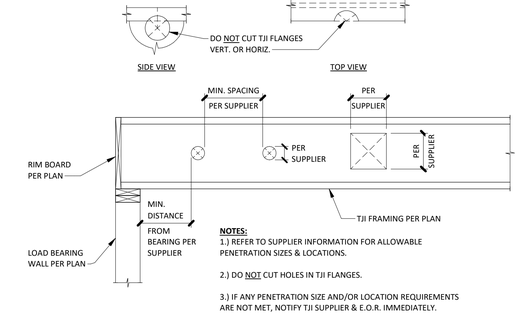


FLOOR	ANTICIPATED CUMULATIVE SHRINKAGE
4TH	1/2"
3RD	3/8"
2ND	1/4"
1ST	1/8"



TYP. HEADER/WALL OPENING DETAIL | 08

N.T.S. | S4.1



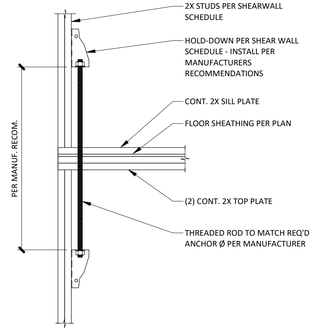
NOTES:
1.) REFER TO SUPPLIER INFORMATION FOR ALLOWABLE PENETRATION SIZES & LOCATIONS.

2.) DO NOT CUT HOLES IN TJI FLANGES.

3.) IF ANY PENETRATION SIZE AND/OR LOCATION REQUIREMENTS ARE NOT MET, NOTIFY TJI SUPPLIER & E.O.R. IMMEDIATELY.

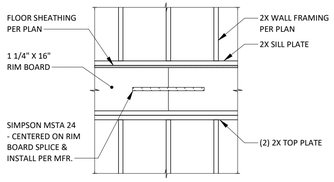
ALLOWABLE TJI WEB PENETRATIONS | 09

3/4" = 1'-0" | S4.1



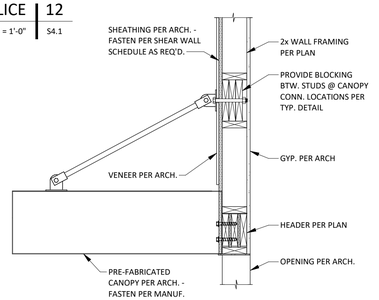
TYP. FLOOR-TO- FLOOR HOLD DOWN DETAIL | 11

3/4" = 1'-0" | S4.1



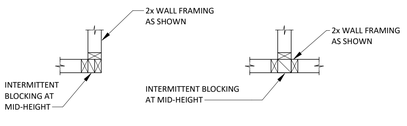
TYP. RIM BOARD SPLICE | 12

1/2" = 1'-0" | S4.1



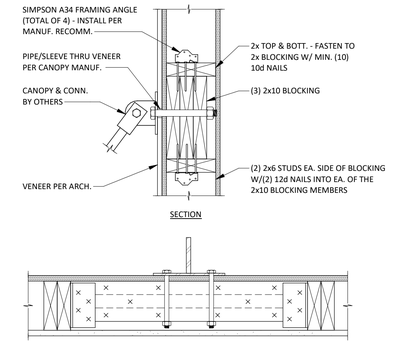
WOOD FRAMING CANOPY DETAIL | 15

3/4" = 1'-0" | S4.1



TYP. STUD WALL INTERSECTION DETAIL | 14

N.T.S. | S4.1



WOOD CANOPY/TIE-ROD BLOCKING | 16

1 1/2" = 1'-0" | S4.1

NORTH

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Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

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WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO.

Drawn By: AG
Checked By: AG
Document Date: 08/15/2023
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Project No.

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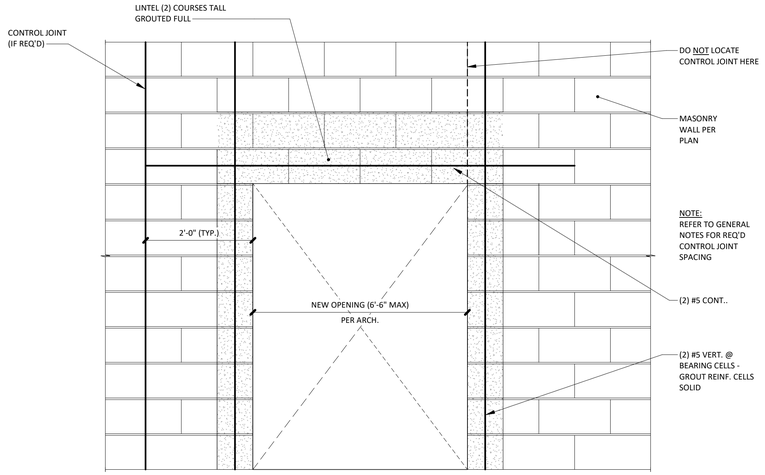
STATE OF MISSOURI · STEVEN N. BUSEN · NUMBER E-25461 · 8-15-23 · PROFESSIONAL ENGINEER

Sheet Title

TYPICAL FRAMING DETAILS

Sheet No.

S4.1

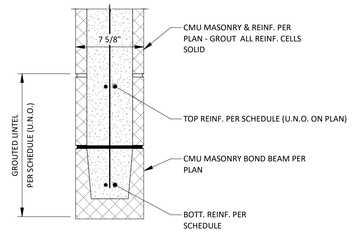


TYP. MASONRY WALL LINTEL DETAIL - BOND BEAM | 01

3/4" = 1'-0" | S4.2

ENG. TO VERIFY

BOND BEAM SCHEDULE				
MAX. SPAN	GROUTED BOND BEAM DEPTH	BOTT. REINF.	TOP REINF.	# OF BRG. CELLS
4'-0"	1'-4"	(2) #5 CONT.	N/A	(1)



NOTE:
1.) FOR OPENING WIDTHS EXCEEDING WIDTHS SHOWN & NOT SHOWN ELSE WHERE ON DRAWINGS, CONTACT E.O.R. PRIOR TO CONSTRUCTION.

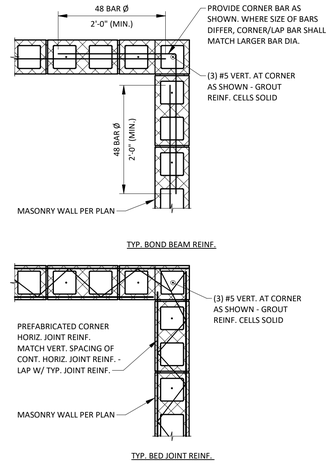
2.) BOND BEAM SIZES & REINFORCEMENT SHOWN IN PROJECT SPECIFIC DETAILS GOVERN OVER TYP. DETAILS.

3.) EXTEND ALL BARS AND GROUTING BEYOND JAMBS PER TYP. DETAILS

4.) REFER TO TYP. DETAILS FOR ADD'L. INFORMATION.

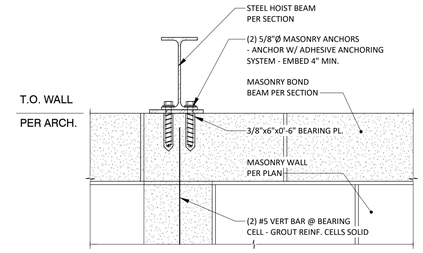
TYP. BOND BEAM DETAIL | 02

1 1/2" = 1'-0" | S4.2



CORNER HORIZ. JOINT REINF. | 03

3/4" = 1'-0" | S4.2



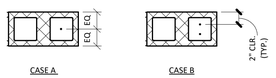
TYP. BEAM CONNECTION | 04

1 1/2" = 1'-0" | S4.2

TYPICAL SPLICE LENGTHS FOR MASONRY BLOCK - STRENGTH DESIGN													
BLOCK WIDTH	BARS CENTERED - CASE A						BARS CENTERED - CASE B						
	VERTICAL BAR SIZE						VERTICAL BAR SIZE						
	#3	#4	#5	#6	#7	#8	#9	#3	#4	#5	#6	#7	#8	#9
6" BLOCK	14"	18"	28"	53"	-	-	-	-	-	-	-	-	-	-
8" BLOCK	14"	18"	22"	38"	52"	72"	*	15"	25"	39"	54"	63"	-	-
10" BLOCK	14"	18"	22"	35"	40"	61"	*	15"	25"	39"	54"	63"	72"	*
12" BLOCK	14"	18"	22"	35"	40"	61"	*	14"	22"	35"	54"	63"	72"	*

SYMBOLS:
- - REINFORCING CONFIGURATION NOT PERMISSIBLE
- * MECHANICAL TENSION SPLICE REQ'D

NOTES:
1) MECH. TENSION SPLICE CAN BE FOR ANY BAR SIZE IF NOT NOTED.
2) FOR USE WITH F'M=2,000 psi & fy = 60,000 psi



MASONRY SPLICE TABLE | 05

3/4" = 1'-0" | S4.2

NOTE:
1. REFER TO GENERAL NOTES FOR REQ'D MAX. CONTROL JOINT SPACING

2. COORDINATE LOCATIONS OF JOINTS W/ ARCHITECTURAL DRAWINGS.

MASONARY JOINT DETAILS | 06

3/4" = 1'-0" | S4.2

NOTE:
VERT. WALL REINF. SHALL CONTINUE THRU BOND BEAM PER DETAILS.
VERT. WALL REINF. NOT SHOWN FOR CLARITY

TYP. BOND BEAM STEP DETAIL | 07

3/4" = 1'-0" | S4.2

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brr

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Consultants

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LEE'S SUMMIT, MO.

WOODSPRING SUITES

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Checked By: AG
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Professional Seal

STATE OF MISSOURI · STEVEN N. BUSEY · NUMBER E-25461 · PROFESSIONAL ENGINEER · 08.14.23

Sheet Title

TYPICAL FRAMING DETAILS

Sheet No.

S4.2

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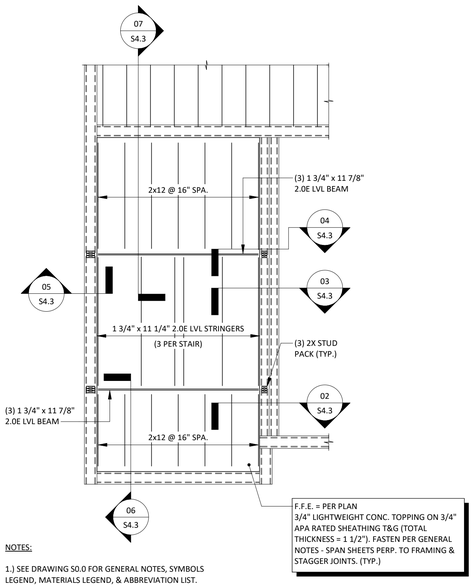


NOTES:

1.) SEE DRAWING S0.0 FOR GENERAL NOTES, SYMBOLS LEGEND, MATERIALS LEGEND, & ABBREVIATION LIST.

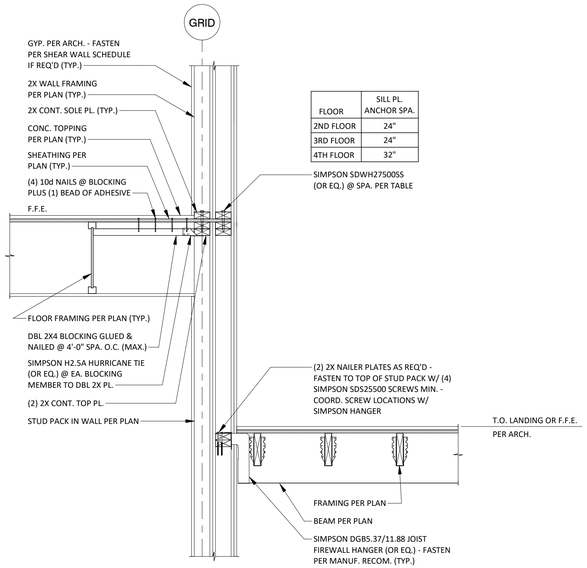
2.) REFERENCE DRAWING S4.1 FOR TYPICAL FRAMING DETAILS.

3.) SEE DRAWING S0.1 FOR ISOMETRIC VIEW & S0.2 FOR FULL BUILDING SECTIONS.

4.) REFERENCE ARCHITECTURAL DRAWINGS TO VERIFY SIZE & LOCATIONS OF ALL ROOF & WALL OPENINGS.

TYP. STAIR FRAMING PLAN | 01

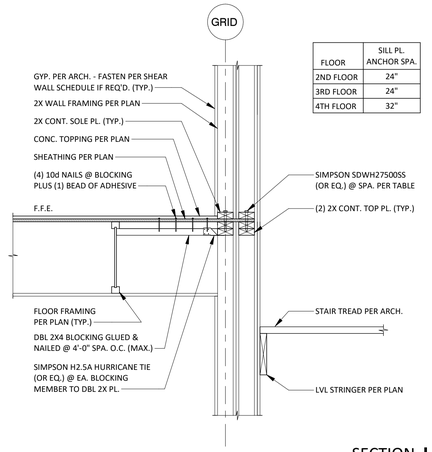
1/4" = 1'-0" | S4.3



FLOOR	SILL PL. ANCHOR SPA.
2ND FLOOR	24"
3RD FLOOR	24"
4TH FLOOR	32"

SECTION | 02

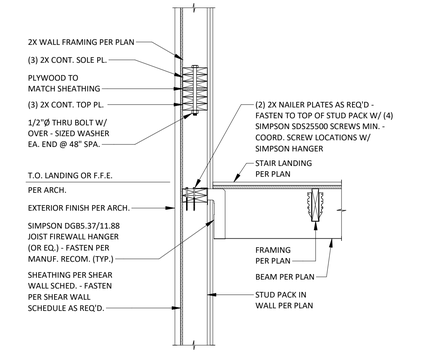
3/4" = 1'-0" | S4.3



FLOOR	SILL PL. ANCHOR SPA.
2ND FLOOR	24"
3RD FLOOR	24"
4TH FLOOR	32"

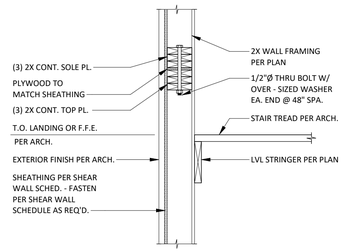
SECTION | 03

3/4" = 1'-0" | S4.3



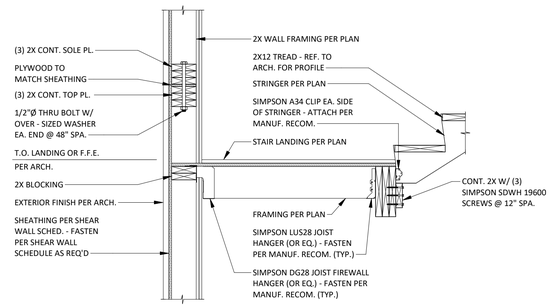
SECTION | 04

3/4" = 1'-0" | S4.3



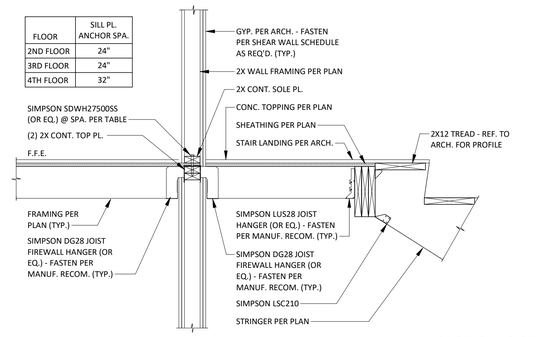
SECTION | 05

3/4" = 1'-0" | S4.3



SECTION | 06

3/4" = 1'-0" | S4.3



FLOOR	SILL PL. ANCHOR SPA.
2ND FLOOR	24"
3RD FLOOR	24"
4TH FLOOR	32"

SECTION | 07

3/4" = 1'-0" | S4.3

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Project No.

31000541

Professional Seal

STATE OF MISSOURI
STEVEN N. BUSEY
NUMBER E-25461
PROFESSIONAL ENGINEER
08/15/2023

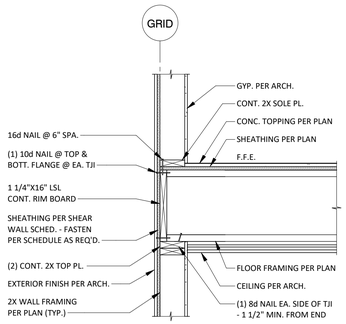
Sheet Title

TYPICAL STAIR FRAMING PLAN & DETAILS

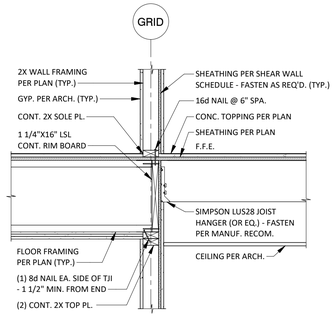
Sheet No.

S4.3

BRR Original printed on recycled paper

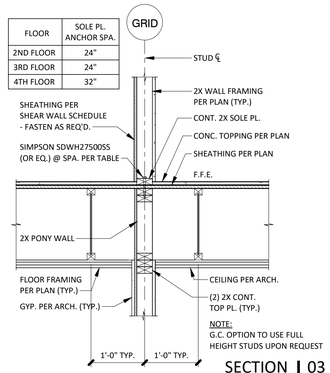


SECTION 01
3/4" = 1'-0" | S4.4



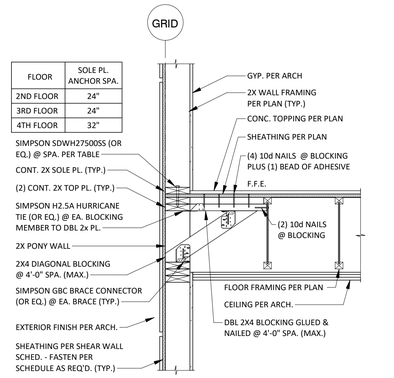
SECTION 02
3/4" = 1'-0" | S4.4

FLOOR	SOLE PL. ANCHOR SPA.
2ND FLOOR	24"
3RD FLOOR	24"
4TH FLOOR	32"



SECTION 03
3/4" = 1'-0" | S4.4

FLOOR	SOLE PL. ANCHOR SPA.
2ND FLOOR	24"
3RD FLOOR	24"
4TH FLOOR	32"



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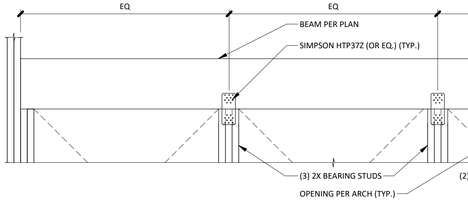

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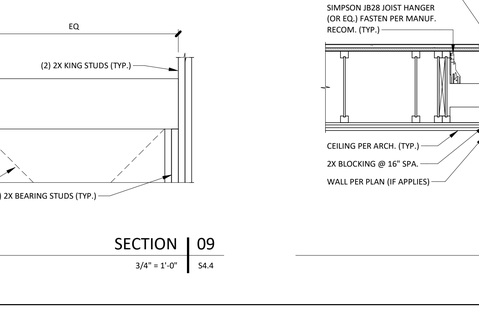

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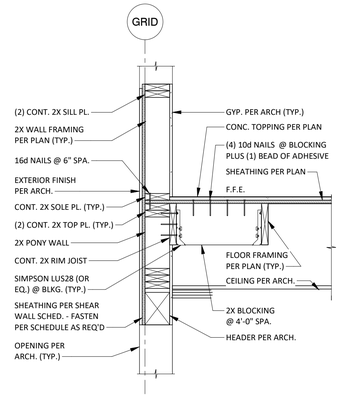

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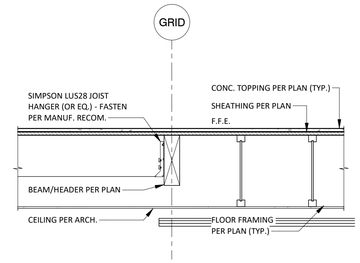
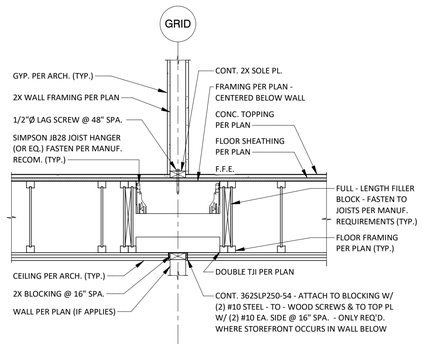


SECTION 08
3/4" = 1'-0" | S4.4

SECTION 09
3/4" = 1'-0" | S4.4



SECTION 10
3/4" = 1'-0" | S4.4

8/15/2023 6:07:17 PM

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8131 METCALF AVE, SUITE 300
OVERLAND PARK, KS 66204

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Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD
LEE'S SUMMIT, MO.

WOODSPRING SUITES®

Drawn By: AG
Checked By: AG
Document Date: 08/15/2023
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_808

Project No.

31000541

Professional Seal

STATE OF MISSOURI · STEVEN N. BUSEY · NUMBER E-25461 · PROFESSIONAL ENGINEER · 08.17.23

Sheet Title

FRAMING DETAILS

Sheet No.

S4.4

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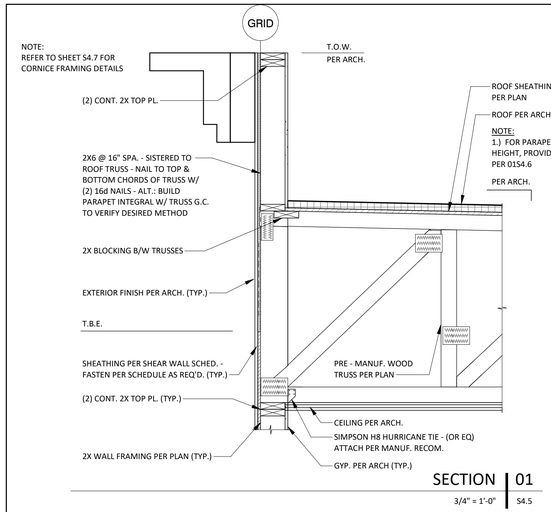
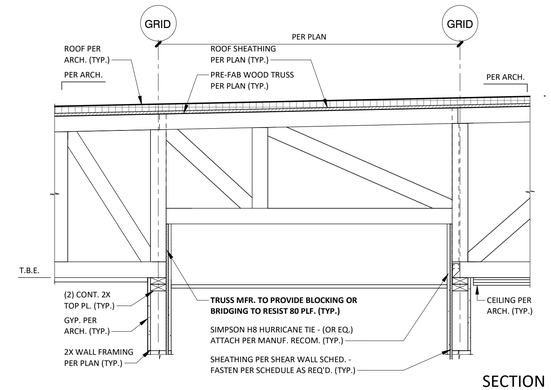
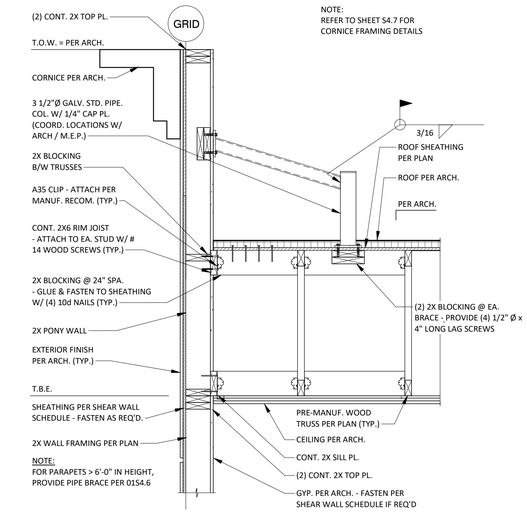


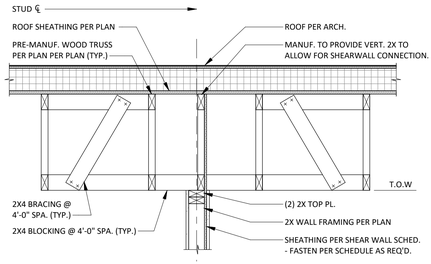
SECTION | 01
3/4" = 1'-0" | S4.5



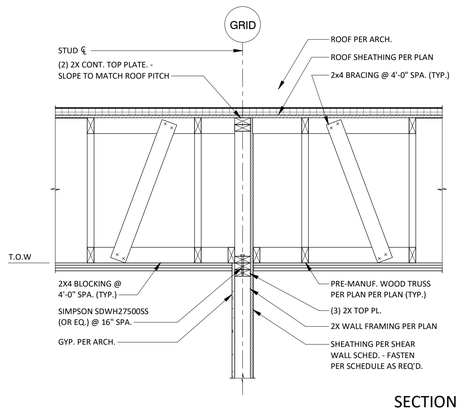
SECTION | 02
3/4" = 1'-0" | S4.5



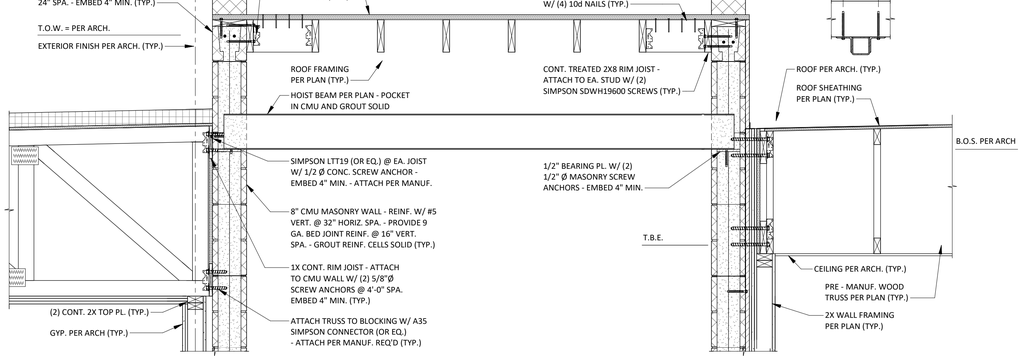
SECTION | 03
3/4" = 1'-0" | S4.5



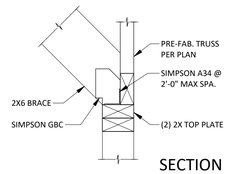
ALTERNATE DETAIL



SECTION | 05
3/4" = 1'-0" | S4.5



SECTION | 06
3/4" = 1'-0" | S4.5



SECTION | 07
1 1/2" = 1'-0" | S4.5

8/15/2023 6:07:19 PM

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Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD
LEE'S SUMMIT, MO.

WOODSPRING SUITES

Drawn By:
AG
Checked By:
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Document Date:
08/15/2023
Protocycle:
WSS_v5_2023.1 (05/05/23)
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Project No.

31000541

Professional Seal

STATE OF MISSOURI
STEVEN N. BUSEY
NUMBER E-25461
PROFESSIONAL ENGINEER
08/15/2023

Sheet Title

FRAMING DETAILS

Sheet No.

S4.5

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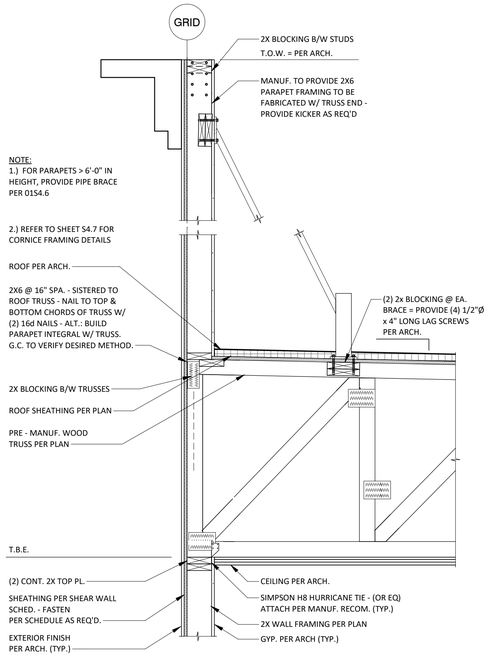
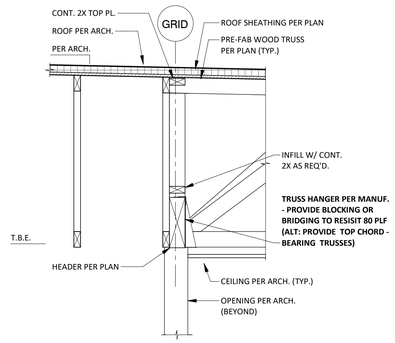


SECTION | 01

3/4" = 1'-0" | S4.6



SECTION | 02

3/4" = 1'-0" | S4.6

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NO.	DATE	DESCRIPTION

Project Name

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1010 NW WARD ROAD
LEE'S SUMMIT, MO.

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Protocycle:
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Sheet Title

FRAMING DETAILS

Sheet No.

S4.6

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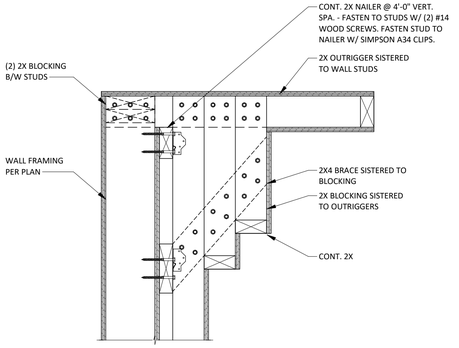
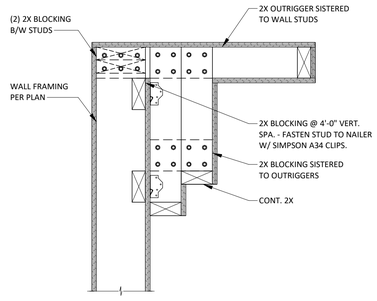


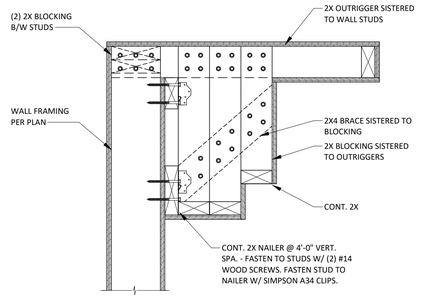
CORNICE B AT BUMB OUT | 01

1 1/2" = 1'-0" | S4.7



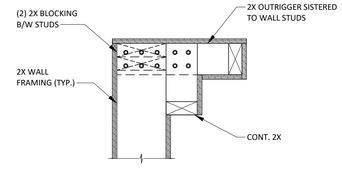
CORNICE B | 02

1 1/2" = 1'-0" | S4.7



CORNICE C | 03

1 1/2" = 1'-0" | S4.7



CORNICE A | 04

1 1/2" = 1'-0" | S4.7

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Consultants

RSE STRUCTURAL ENGINEERS

RSE Structural Engineers LLC
11320 West 79th Street
Lenexa, Kansas 66214
Phone 913.492.7400
www.RSEstructural.com
Project Number: 23-283

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD
LEE'S SUMMIT, MO.

WOODSPRING SUITES
CHOICE HOTELS

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Document Date:
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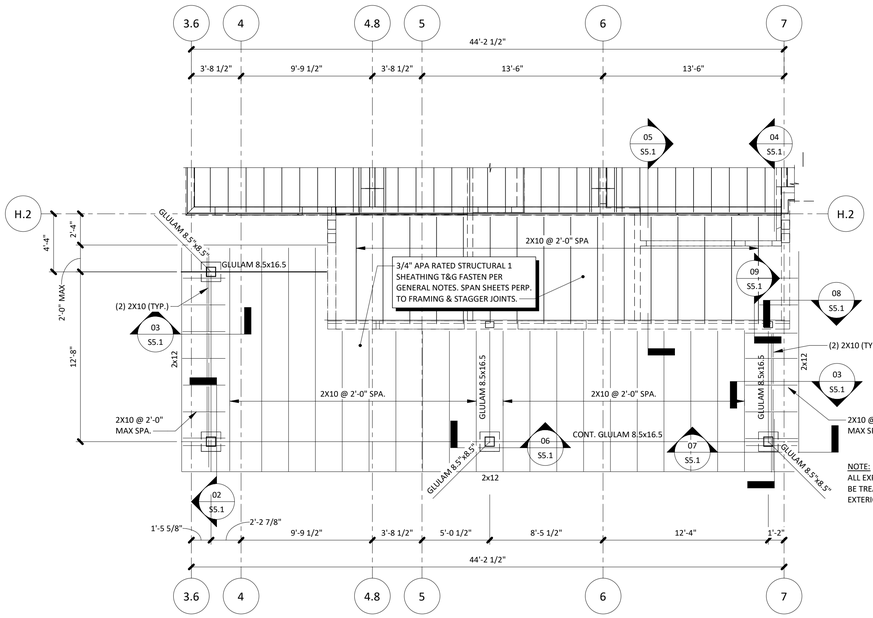
STATE OF MISSOURI
STEVEN N. BUSEY
NUMBER E-25461
PROFESSIONAL ENGINEER
08.17.23

Sheet Title

PARAPET FRAMING DETAILS

Sheet No.

S4.7



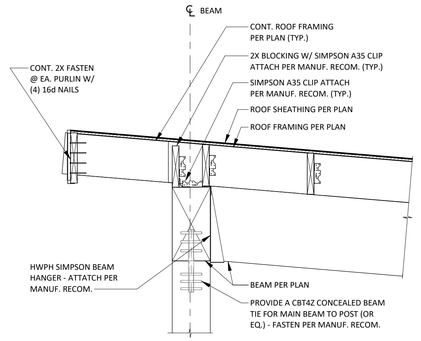
ENLARGED CANOPY FRAMING PLAN (FRONT) | 01

3/16" = 1'-0" | S5.1

NOTES:
1.) REFER TO 2ND FLOOR FRAMING PLAN FOR BUILDING HEADERS
2.) ALL CANOPY GLULAMS SHALL BE GRADE 26F-V5 SP/SP

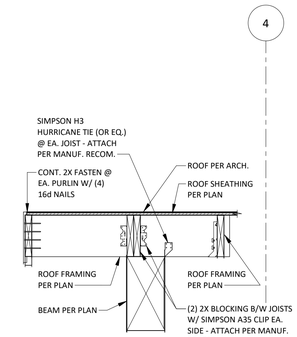
HEADER/BEAM SCHEDULE			
MARK	SIZE	BEARING STUDS	KING STUDS
H1	(2) 2X8	(2) 2x4	(2) 2x4
H2	(2) 2X10	(2) 2x4	(2) 2x4
H3	(2) 2X12	(2) 2x6	(2) 2x4
H4	(3) 2X8	(2) 2x6	(2) 2x6
H5	(3) 2X10	(2) 2x6	(2) 2x6
H6	(3) 2X12	(2) 2x6	(2) 2x6
H7	(2) 1 3/4" x 16" 2.0E LVL	(2) 2x6	(2) 2x6
H8	(3) 1 3/4" x 16" 2.0E LVL	4X8	N/A
H9	(3) 1 3/4" x 16" 2.0E LVL	(3) 2x6	(2) 2x6
H10	(4) 1 3/4" x 16" 2.0E LVL	4x8 POST	N/A
H11	(5) 1 3/4" x 16" 2.0E LVL	4x8 POST	N/A

NOTE:
ALL EXPOSED WOOD TO BE TREATED FOR EXTERIOR CONDITIONS



SECTION | 02

3/4" = 1'-0" | S5.1

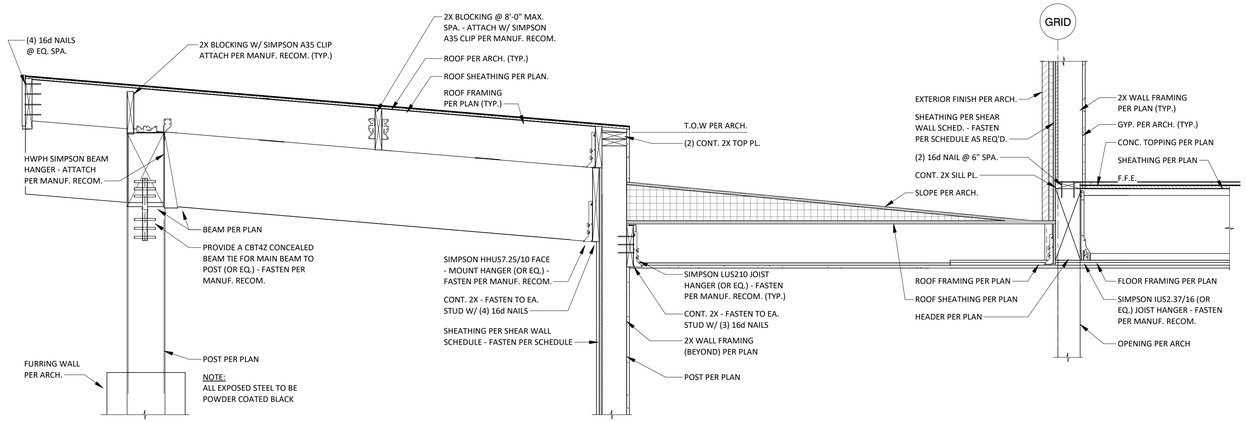


SECTION | 03

3/4" = 1'-0" | S5.1

POST PER PLAN

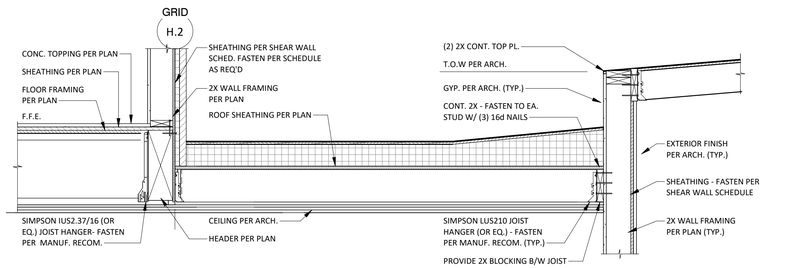
NOTE:
ALL EXPOSED STEEL TO BE POWDER COATED BLACK



NOTE:
ALL EXPOSED STEEL TO BE POWDER COATED BLACK

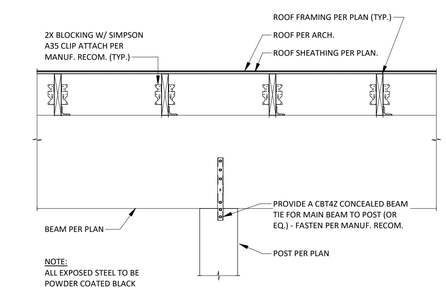
SECTION | 04

3/4" = 1'-0" | S5.1



SECTION | 05

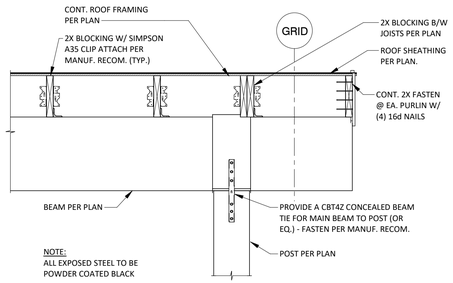
3/4" = 1'-0" | S5.1



NOTE:
ALL EXPOSED STEEL TO BE POWDER COATED BLACK

SECTION | 06

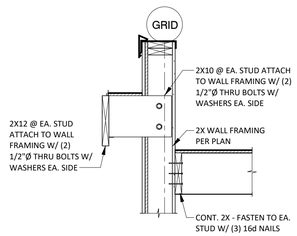
3/4" = 1'-0" | S5.1



NOTE:
ALL EXPOSED STEEL TO BE POWDER COATED BLACK

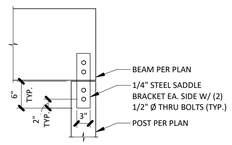
SECTION | 07

3/4" = 1'-0" | S5.1



SECTION | 08

3/4" = 1'-0" | S5.1



SECTION | 09

3/4" = 1'-0" | S5.1

8/15/2023 6:07:25 PM

Architect of Record:
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OVERLAND PARK, KS 66204

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Consultants

Issues & Revisions

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Project Name

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1010 NW WARD ROAD LEE'S SUMMIT, MO.

Drawn By: AG
Checked By: AG
Document Date: 08/15/2023
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_B08

Project No.

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Professional Seal

STATE OF MISSOURI
STEVEN N. BUSEY
NUMBER E-25461
PROFESSIONAL ENGINEER
08.09.23

Sheet Title

CANOPY FRAMING PLAN AND DETAILS

Sheet No.

S5.1

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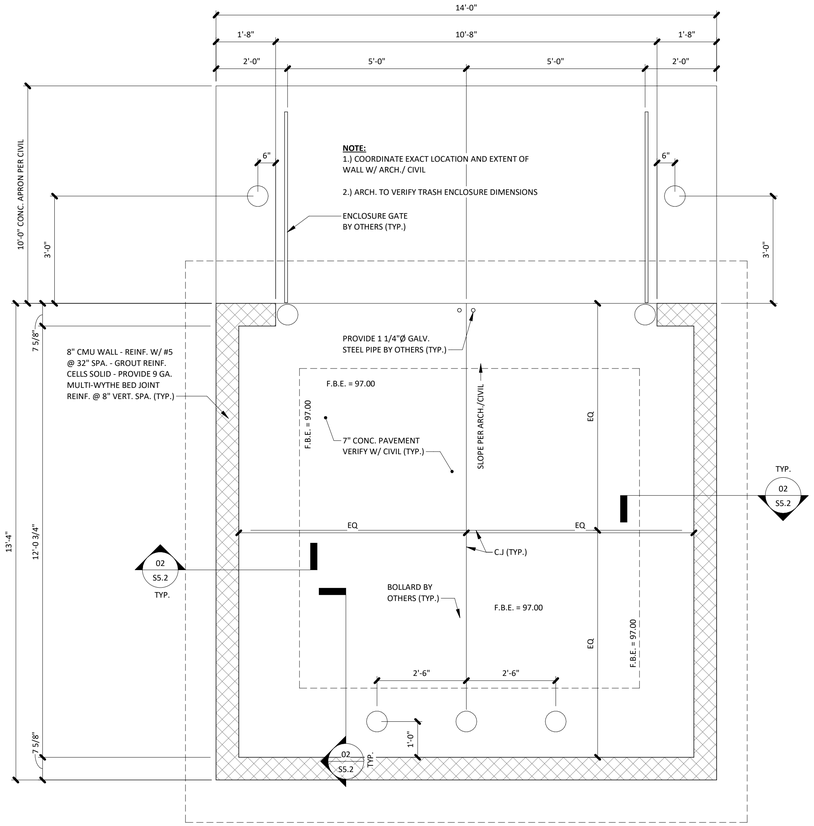
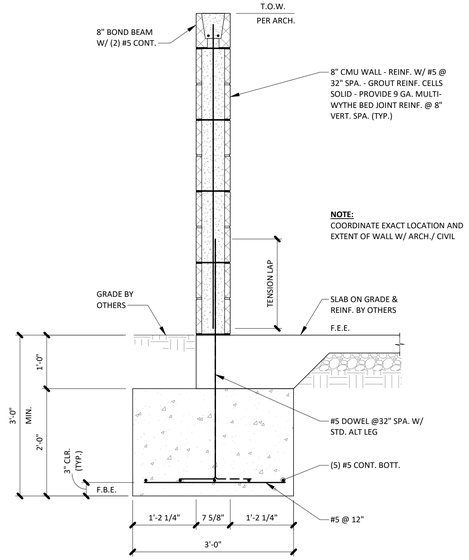


TRASH ENCLOSURE PLAN | 01
1/2" = 1'-0" | S5.2



TYP. TRASH ENCLOSURE SECTION | 02
3/4" = 1'-0" | S5.2

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Issues & Revisions

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Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD
LEE'S SUMMIT, MO.

WOODSPRING SUITES

Drawn By:
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AG
Document Date:
08/15/2023
Protocycle:
WSS_v5_2023.1 (05/05/23)
Bulletins Through:
WSS_v2_808

Project No.

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STATE OF MISSOURI
STEVEN N. BUSEY
NUMBER E-25461
PROFESSIONAL ENGINEER

Sheet Title

TRASH ENCLOSURE FRAMING PLAN AND DETAILS

Sheet No.

S5.2

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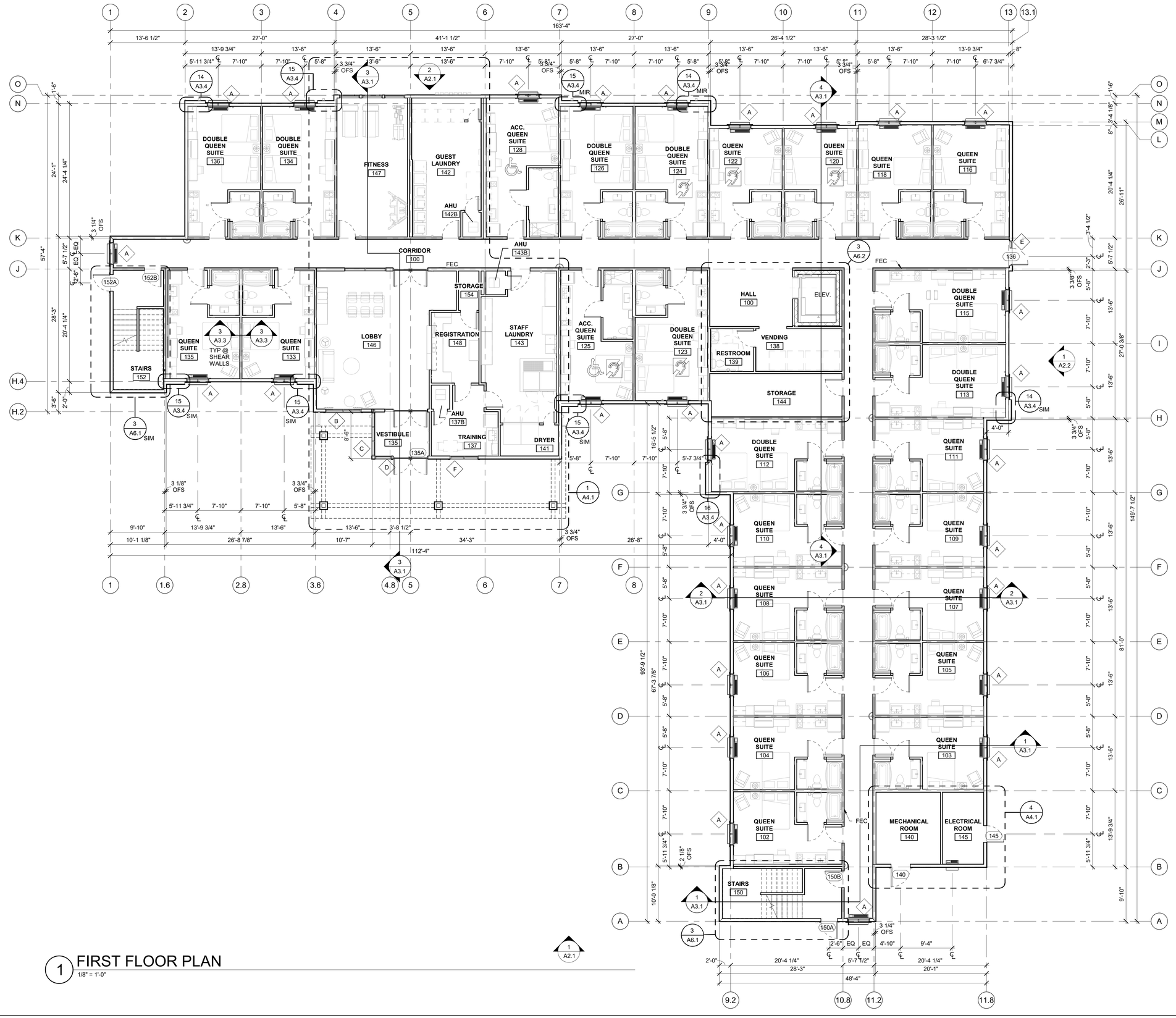

1 FIRST FLOOR PLAN
1/8" = 1'-0"

8/16/2023 12:49:44 PM

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Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By: JP
Checked By: JL
Document Date: 08/16/23
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_B08

Project No.

31000541

Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB
ARCHITECT
LICENSE NO. 2022000409

BRR ARCHITECTURE, INC.
ARCHITECTURAL CORPORATION
MISSOURI LICENSE NO. ARC 000160

Sheet Title

FIRST FLOOR PLAN

Sheet No.

A1.1

NORTH

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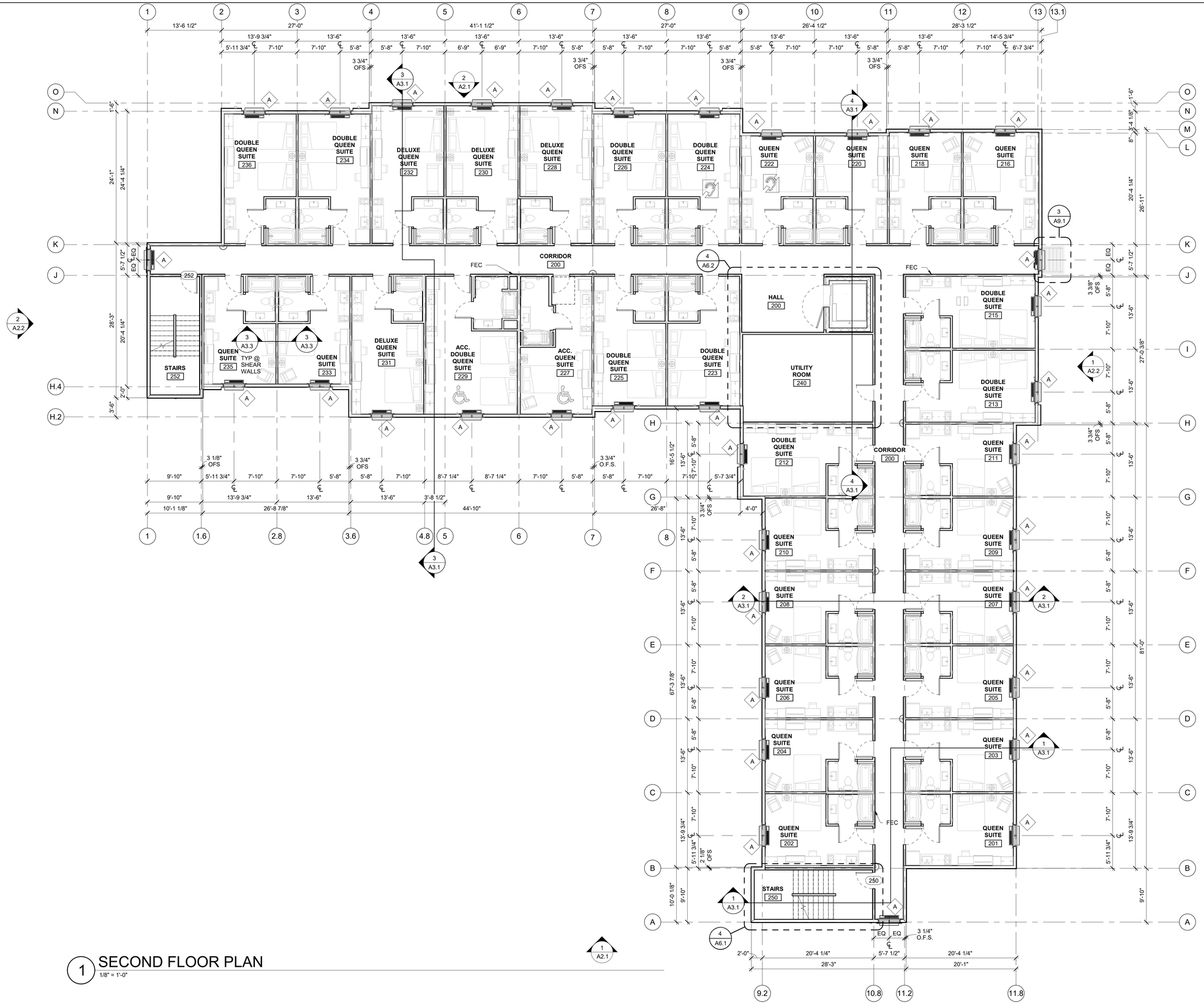

1 SECOND FLOOR PLAN

1/8" = 1'-0"

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Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By: JP
Checked By: JL
Document Date: 08/16/23
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_B08

Project No.

31000541

Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB
ARCHITECT
LICENSE NO. 2022000409

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Sheet Title

SECOND FLOOR PLAN

Sheet No.

A1.2

NORTH

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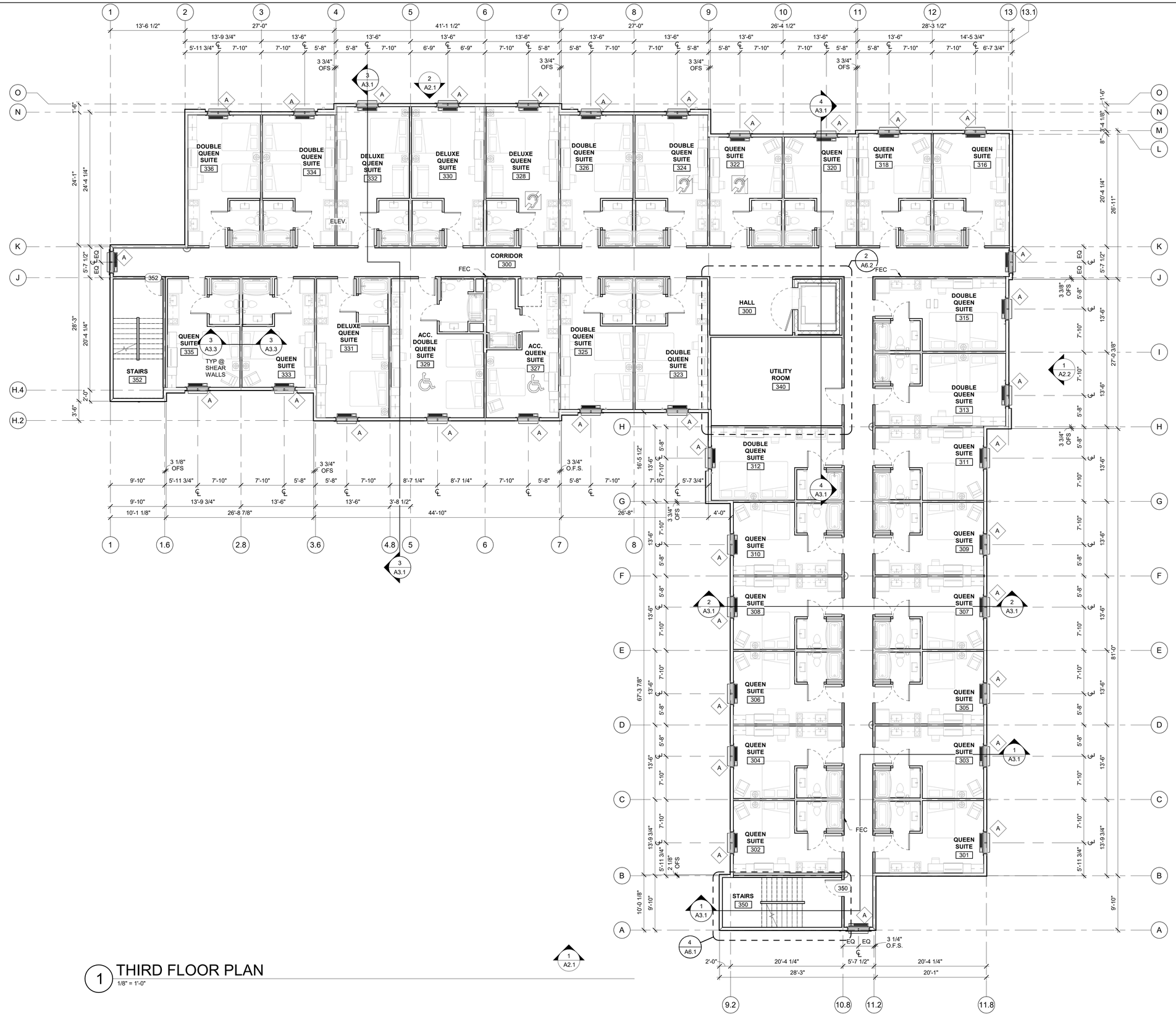

1 THIRD FLOOR PLAN

1/8" = 1'-0"

8/16/2023 12:49:48 PM

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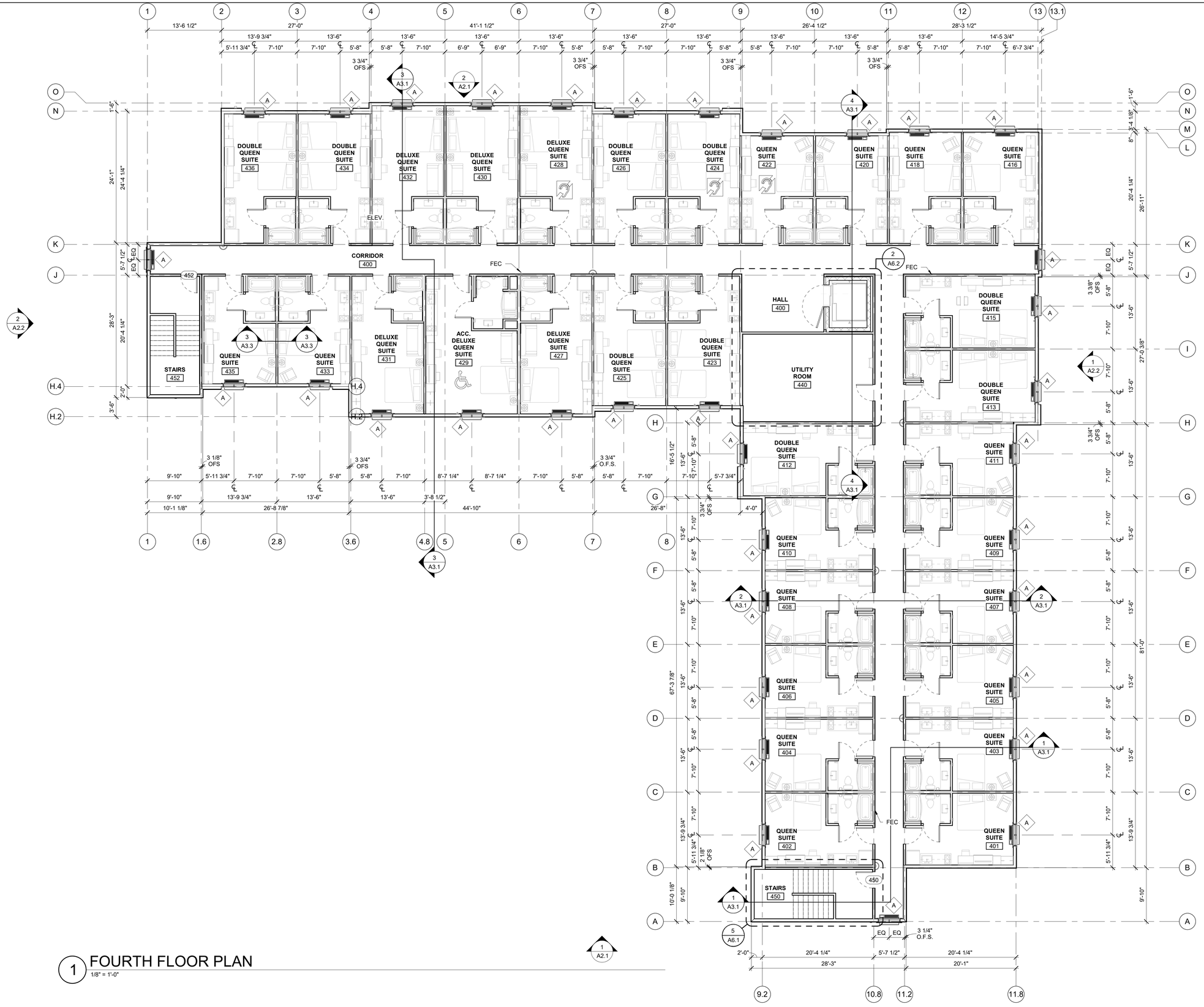
Sheet Title

THIRD FLOOR PLAN

Sheet No. A1.3

NORTH

BRR Original printed on recycled paper



1 FOURTH FLOOR PLAN

1/8" = 1'-0"

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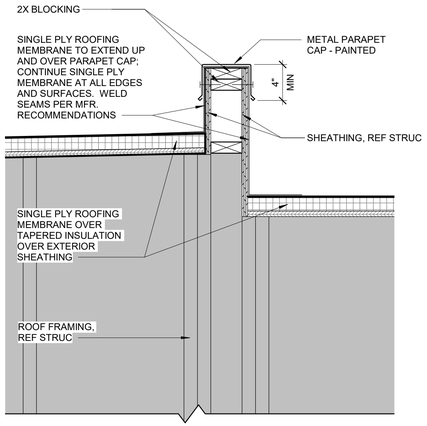
Sheet Title

FOURTH FLOOR PLAN

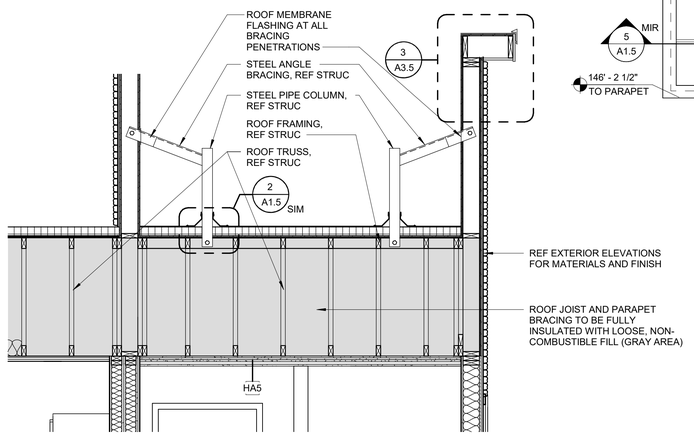
Sheet No.

A1.4

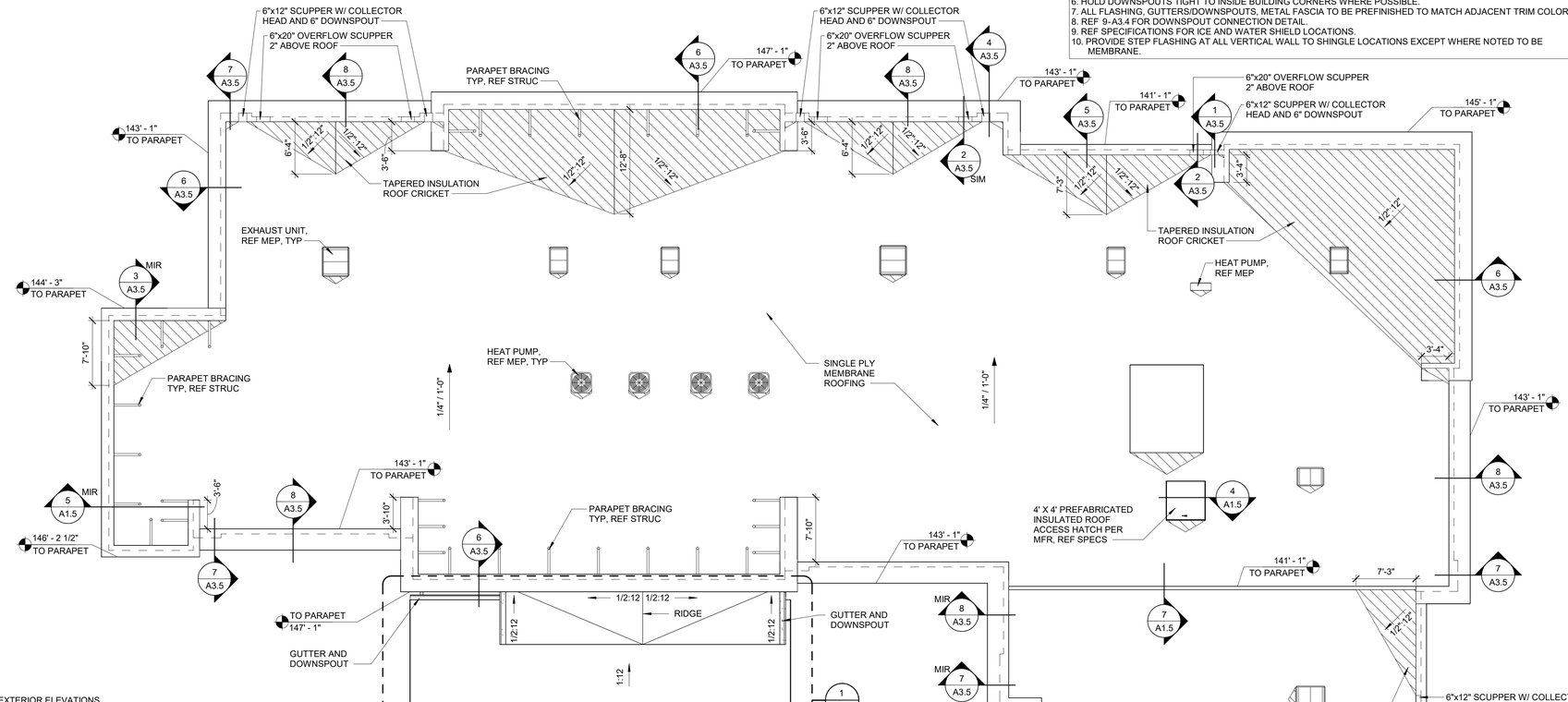
BRR Original printed on recycled paper

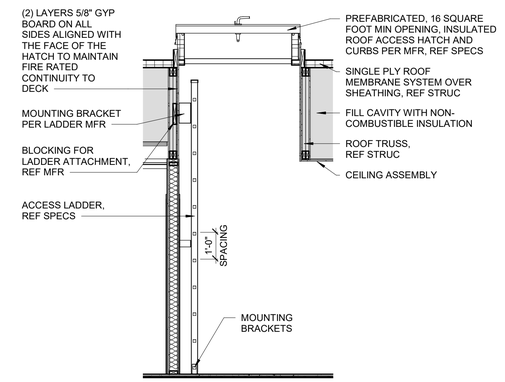


7 LOW PARAPET WALL
1 1/2" = 1'-0"

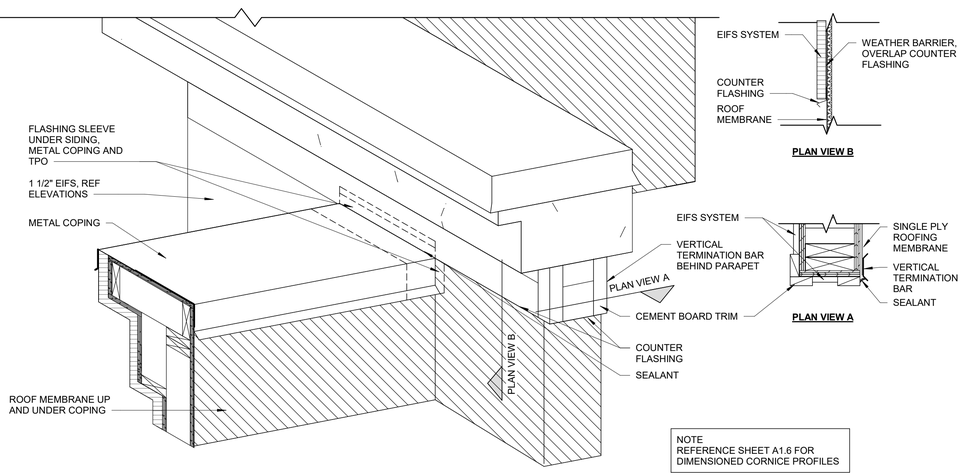


5 STAIR TOWER ROOF SECTION
1/2" = 1'-0"

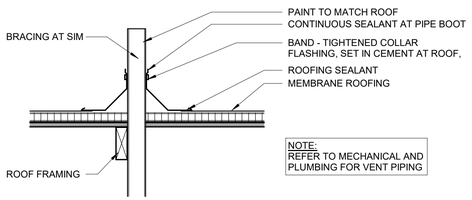




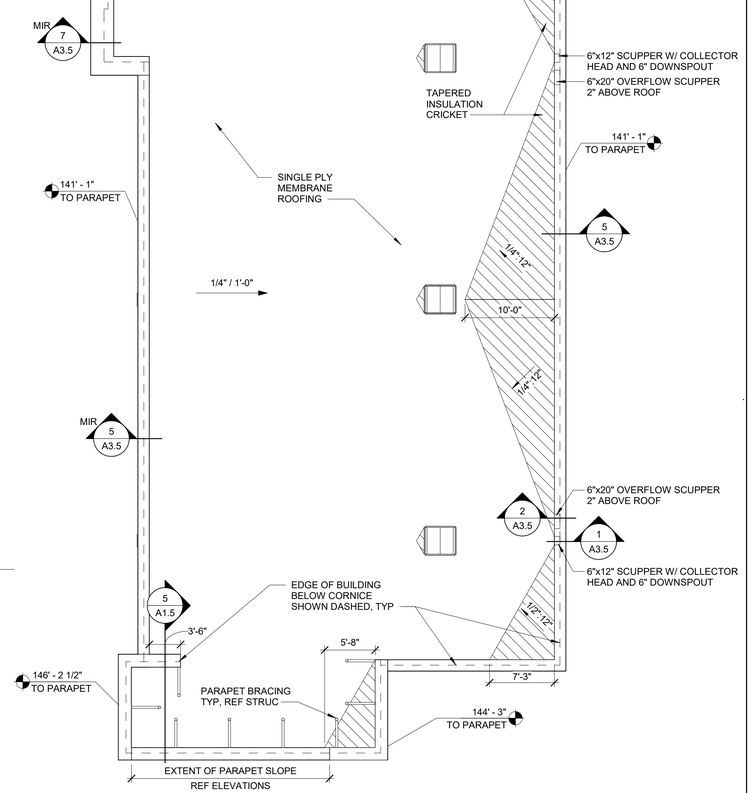
4 ROOF HATCH LADDER
3/8" = 1'-0"



3 ROOF PARAPET WALL ISOMETRIC (FOR REF ONLY)
1 1/2" = 1'-0"



2 VENT FLASHING
1 1/2" = 1'-0"



1 ROOF PLAN
1/8" = 1'-0"

NORTH

GENERAL NOTE:

1. ATTIC TO BE FULLY SPRINKLED, AS REQUIRED BY NFPA 13 SYSTEMS.
2. REF SPECIFICATIONS FOR ALL GUTTER/DOWNSPOUT SIZES.
3. ALL SOFFIT MATERIAL TO BE VENTED "HARDIPLANK" INCLUDING GABLE EAVES.
4. ALL SOFFIT MATERIAL TO BE PAINTED TO MATCH ADJACENT TRIM COLOR.
5. VERIFY ROOF SLOPE WITH STRUCTURAL.
6. HOLD DOWNSPOUTS TIGHT TO INSIDE BUILDING CORNERS WHERE POSSIBLE.
7. ALL FLASHING, GUTTERS/DOWNSPOUTS, METAL FASCIA TO BE PREFINISHED TO MATCH ADJACENT TRIM COLOR.
8. REF 9- A3.4 FOR DOWNSPOUT CONNECTION DETAIL.
9. REF SPECIFICATIONS FOR ICE AND WATER SHIELD LOCATIONS.
10. PROVIDE STEP FLASHING AT ALL VERTICAL WALL TO SHINGLE LOCATIONS EXCEPT WHERE NOTED TO BE MEMBRANE.

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STATE OF MISSOURI
TREVOR TYSON HOLCOMB
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08/17/2023

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Sheet Title
ROOF PLAN & DETAILS

Sheet No.
A1.5

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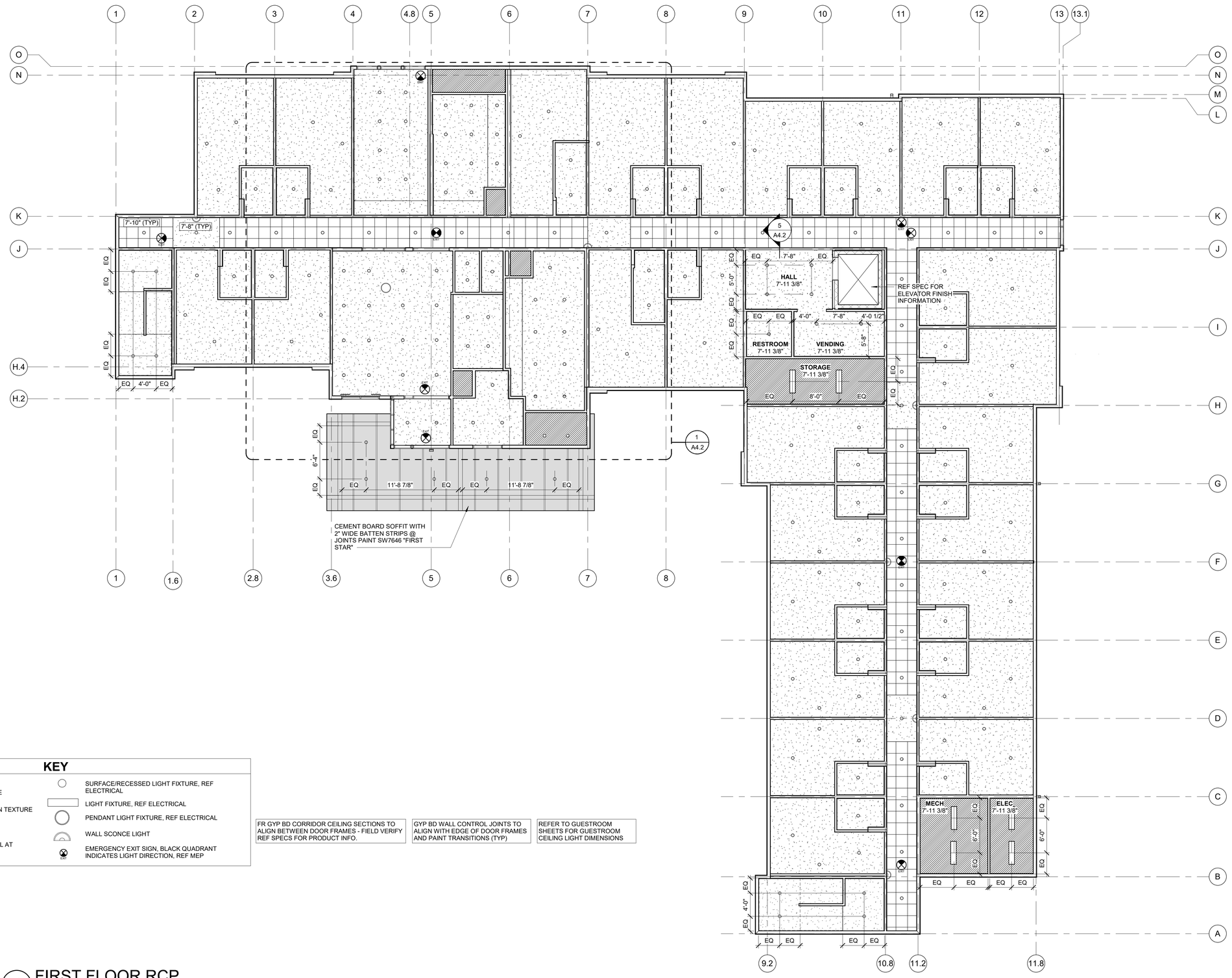

KEY

- 2'x2' ACOUSTICAL CEILING TILE
- FR GYP BD WITH KNOCKDOWN TEXTURE
- FR GYP BD
- CEMENT BOARD SOFFIT PANEL AT CANOPIES
- SURFACE/RECESSED LIGHT FIXTURE, REF ELECTRICAL
- LIGHT FIXTURE, REF ELECTRICAL
- PENDANT LIGHT FIXTURE, REF ELECTRICAL
- WALL SCONCE LIGHT
- EMERGENCY EXIT SIGN, BLACK QUADRANT INDICATES LIGHT DIRECTION, REF MEP

FR GYP BD CORRIDOR CEILING SECTIONS TO ALIGN BETWEEN DOOR FRAMES - FIELD VERIFY REF SPECS FOR PRODUCT INFO.

GYP BD WALL CONTROL JOINTS TO ALIGN WITH EDGE OF DOOR FRAMES AND PAINT TRANSITIONS (TYP)

REFER TO GUESTROOM SHEETS FOR GUESTROOM CEILING LIGHT DIMENSIONS

1 FIRST FLOOR RCP

1/8" = 1'-0"

NORTH

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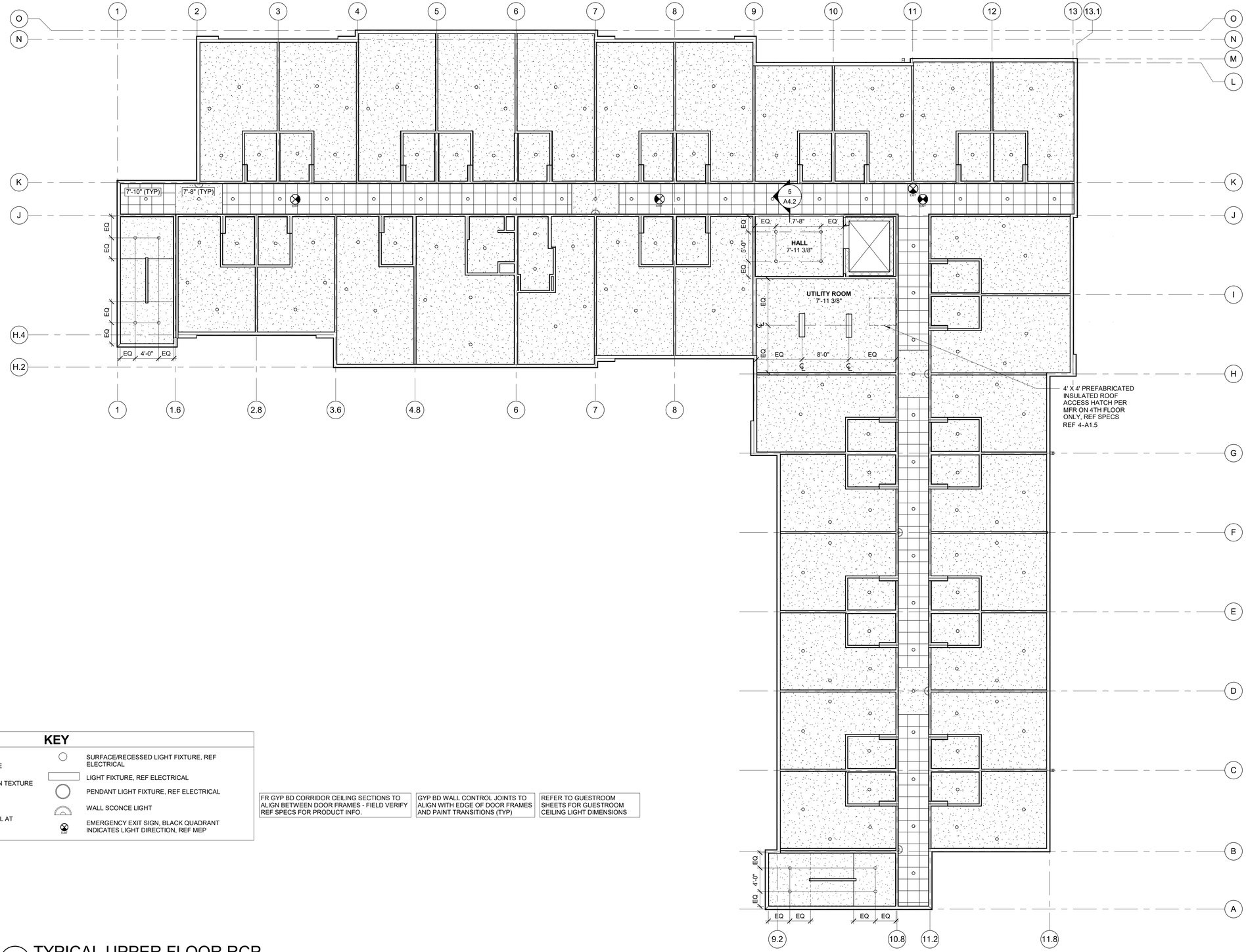
Sheet Title

FIRST FLOOR RCP

Sheet No.

A1.6



KEY

2'x2' ACOUSTICAL CEILING TILE	SURFACE/RECESSED LIGHT FIXTURE, REF ELECTRICAL
FR GYP BD WITH KNOCKDOWN TEXTURE	LIGHT FIXTURE, REF ELECTRICAL
FR GYP BD	PENDANT LIGHT FIXTURE, REF ELECTRICAL
CEMENT BOARD SOFFIT PANEL AT CANOPIES	WALL SCONCE LIGHT
	EMERGENCY EXIT SIGN, BLACK QUADRANT INDICATES LIGHT DIRECTION, REF MEP

FR GYP BD CORRIDOR CEILING SECTIONS TO ALIGN BETWEEN DOOR FRAMES - FIELD VERIFY REF SPECS FOR PRODUCT INFO.

GYP BD WALL CONTROL JOINTS TO ALIGN WITH EDGE OF DOOR FRAMES AND PAINT TRANSITIONS (TYP)

REFER TO GUESTROOM SHEETS FOR GUESTROOM CEILING LIGHT DIMENSIONS

1 TYPICAL UPPER FLOOR RCP
1/8" = 1'-0"

NORTH

8/16/2023 12:49:56 PM

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Sheet Title

TYPICAL FLOOR RCP

Sheet No.

A1.7

KEY

LVT-1	ACCENT WALL (PAINT), REF G1.1 - FINISH SCHEDULE FOR COLOR
LVT-2	ACCENT WALL (WALL COVERING), REF G1.1 - FINISH SCHEDULE
CARPET	WALL PROTECTION: 2'-0" OR 4'-0" HIGH, REF INTERIOR ELEVATIONS AND SPECS
SEALED CONCRETE (SC) / GYPCRETE (GC)	
RUBBER FLOOR TILES	WALL BUMPER GUARD AT TOP OF WALL PROTECTION, REF SPECS
RUBBER - STAIR TREADS, RISERS AND LANDINGS	

REFERENCE SPEC FOR ELEVATOR FINISH INFORMATION

PAINT CORRIDOR WALLS SW7065 "ARGOS"; REFER TO PLANS FOR ACCENT WALL COLOR LOCATIONS

PAINT GYP CEILINGS SW7636 "ORIGAMI WHITE" UNLESS NOTED OTHERWISE

1 FIRST FLOOR FINISH PLAN
1/8" = 1'-0"

NORTH

8/16/2023 12:49:57 PM

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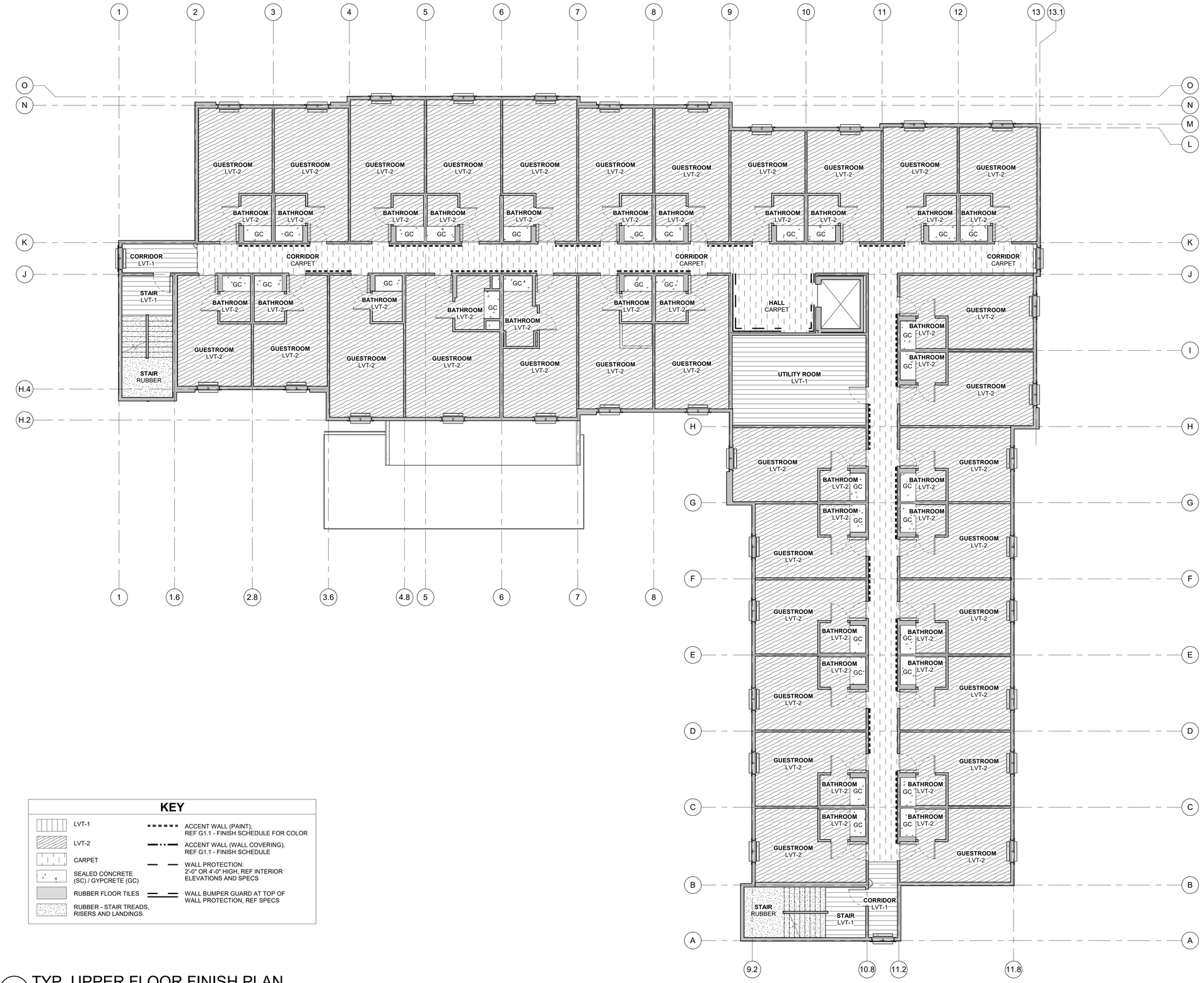
Sheet Title

FIRST FLOOR FINISH PLAN

Sheet No.

A1.8



REFERENCE SPEC FOR ELEVATOR FINISH INFORMATION

PAINT CORRIDOR WALLS SW7065 "ARGOS"; REFER TO PLANS FOR ACCENT WALL COLOR LOCATIONS

PAINT GYP CEILINGS SW7636 "ORIGAMI WHITE" UNLESS NOTED OTHERWISE

KEY

- LVT-1
- LVT-2
- CARPET
- SEALED CONCRETE (SC) / GYPCRETE (GC)
- RUBBER FLOOR TILES
- RUBBER - STAIR TREADS, RISERS AND LANDINGS
- ACCENT WALL (PAINT), REF G1.1 - FINISH SCHEDULE FOR COLOR
- ACCENT WALL (WALL COVERING), REF G1.1 - FINISH SCHEDULE
- WALL PROTECTION: 2'-0" OR 4'-0" HIGH, REF INTERIOR ELEVATIONS AND SPECS
- WALL BUMPER GUARD AT TOP OF WALL PROTECTION, REF SPECS

1 TYP. UPPER FLOOR FINISH PLAN

1/8" = 1'-0"

NORTH

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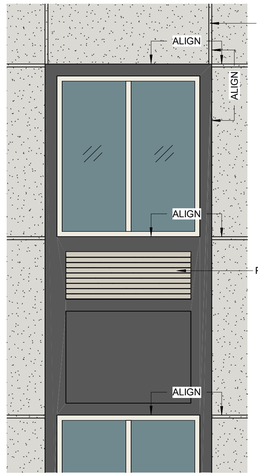
Sheet Title

TYPICAL UPPER FLOOR FINISH PLAN

Sheet No.

A1.9



3 EIFS REVEALS
1/2" = 1'-0"

COLOR SCHEDULE:

- A — COLOR: SW7646 "FIRST STAR"
- B — COLOR: SW7024 "FUNCTIONAL GRAY"
- C — COLOR: SW7674 "PEPPERCORN"
- D — COLOR: SW3079 "STONE"

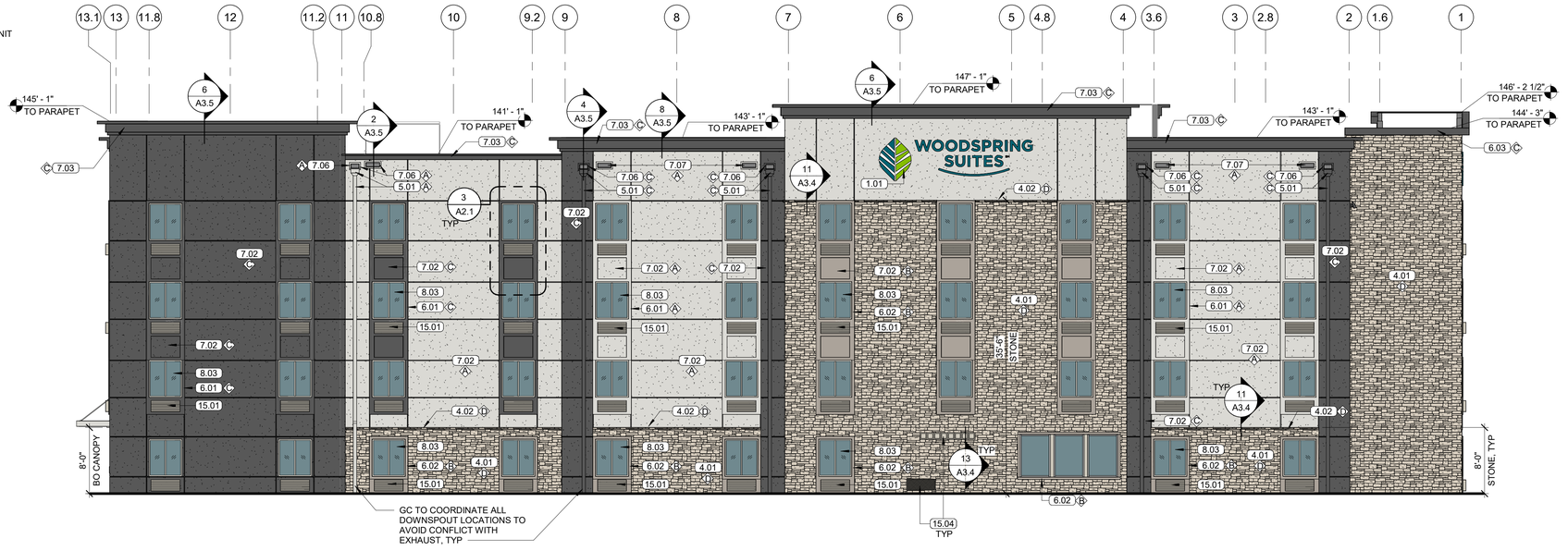
NOTES:

1. GC TO COORDINATE ELECTRICAL ROUGH-IN WITH CONTRACTOR AND SIGN VENDOR PRIOR TO DRYWALL.
2. REFER TO SIGN PACKAGE FOR ALL BLOCKING AND MOUNTING DETAILS.
3. ALIGN EXHAUST VENTS BOTH VERTICAL AND HORIZONTAL.
4. EXTERIOR SIGNAGE: OWNER TO COORDINATE WITH SIGN VENDOR AND LOCAL JURISDICTION.
5. GUTTERS, DOWNSPOUTS, PARAPET CAP, AND FLASHING TO BE SELECTED FROM MANUFACTURER'S STANDARD COLORS TO MATCH ADJACENT FINISHES, SUBMIT FOR APPROVAL.
6. ALL COLOR TRANSITIONS OCCUR AT INSIDE CORNERS NOT OUTSIDE CORNERS.

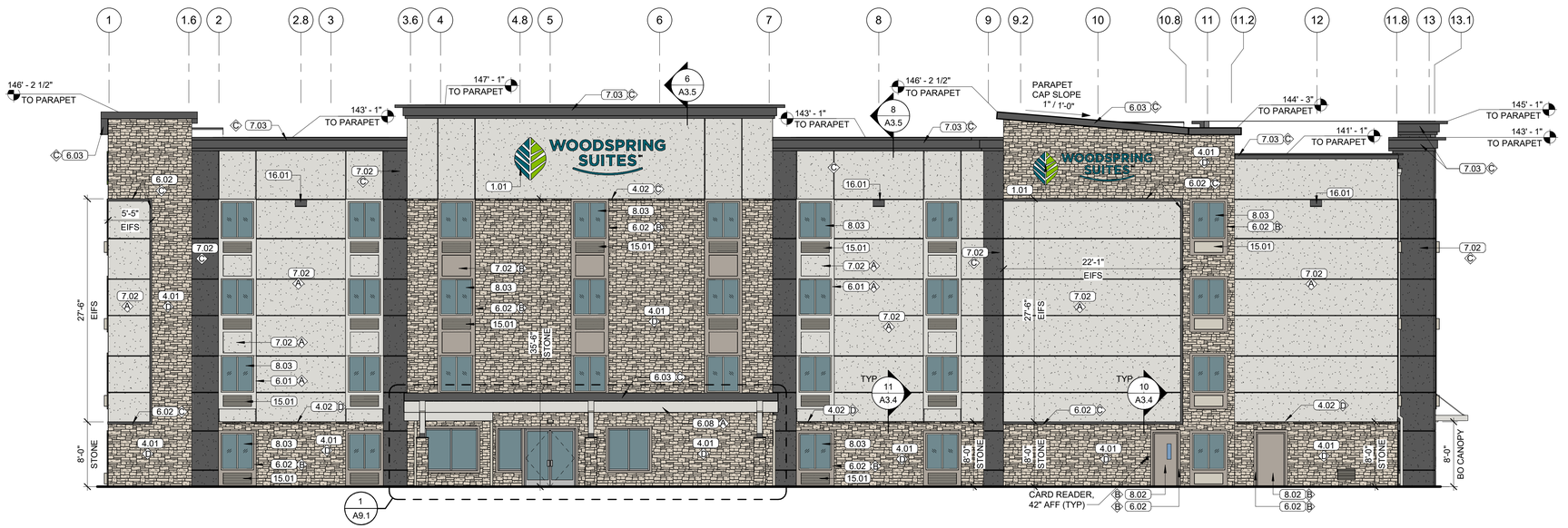
GENERAL NOTE:
PROVIDE WEATHER BARRIER OVER ALL EXTERIOR SHEATHING PRIOR TO THE INSTALLATION OF ANY EXTERIOR FINISH MATERIAL. INSTALL PER MANUFACTURER'S SPECIFICATIONS AND PROVIDE ALL MANUFACTURER'S ACCESSORIES TO FULLY FLASH AND COUNTER-FLASH AT ALL WINDOWS, DOORS, AND EXTERIOR PENETRATIONS. PROVIDE A WEATHER TIGHT BARRIER AT ALL SURFACES. COORDINATE FLASHING WITH WINDOW, DOOR, VENT, ETC. MANUFACTURER'S FOR A WEATHERTIGHT SEAL AT ALL OPENINGS.

KEYNOTE LEGEND

1.01	SIGNAGE BY OWNER; UNDER SEPARATE PERMIT, CONTRACTOR TO COORDINATE BLOCKING WITH MANUFACTURER
4.01	ADHERED MANUFACTURED STONE VENEER: REF INSTALLATION DETAIL 6-A2.2
4.02	ADHERED MANUFACTURED STONE VENEER DRIPLEDGE
5.01	ALUMINUM GUTTERS AND DOWNSPOUTS
6.01	EIFS TRIM: 2-1/2"x4"
6.02	CEMENT BOARD TRIM AT STONE: 5/4"x4"
6.03	TRIM FASCIA
6.08	EXPOSED WOOD STRUCTURE, REF STRUC
7.02	1-1/2" EXTERIOR EIFS: SEE COLOR SCHEDULE
7.03	1-1/2" EXTERIOR EIFS PARAPET: SEE COLOR SCHEDULE
7.06	SCUPPER
7.07	OVERFLOW SCUPPER
8.02	HOLLOW METAL DOOR
8.03	SLIDING WINDOW, TYP.: SEE SPECS
15.01	THRU-WALL HVAC UNIT
15.04	MECHANICAL LOUVERS: REF MECH. DWGS. MILL ALUMINUM FINISH
16.01	LIGHT WALL PACK, REF ELEC. DWGS.



2 REAR ELEVATION
1/8" = 1'-0"



1 FRONT ELEVATION
1/8" = 1'-0"

NOTE: THIS SHEET IS INTENDED TO BE PRINTED IN COLOR FOR CLARITY.

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STATE OF MISSOURI — TREVOR TYSON HOLCOMB — NUMBER A-2022000409 — ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB
ARCHITECT
LICENSE NO. 2022000409

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Sheet Title

EXTERIOR ELEVATIONS

Sheet No.

A2.1

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COLOR SCHEDULE:

- (A) COLOR: SW7646 "FIRST STAR"
- (B) COLOR: SW7024 "FUNCTIONAL GRAY"
- (C) COLOR: SW7674 "PEPPERCORN"
- (D) COLOR: SW3079 "STONE"

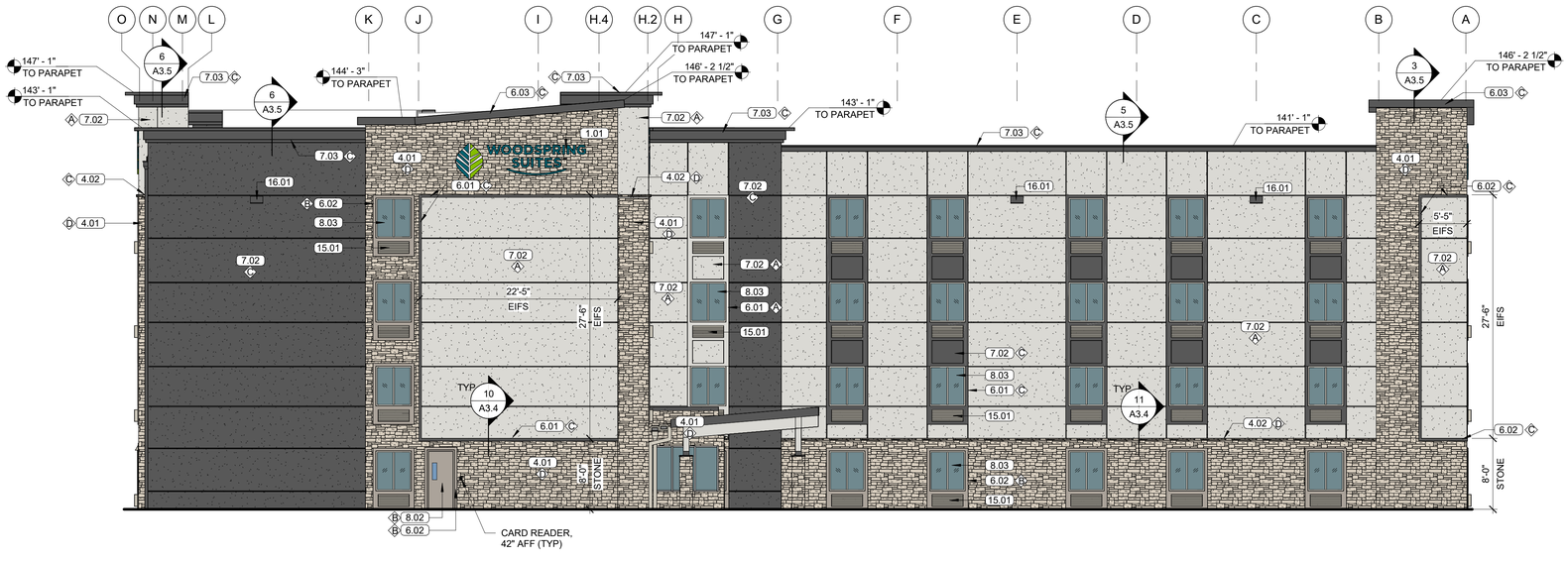
NOTES:

1. GC TO COORDINATE ELECTRICAL ROUGH-IN WITH CONTRACTOR AND SIGN VENDOR PRIOR TO DRYWALL.
2. REFER TO SIGN PACKAGE FOR ALL BLOCKING AND MOUNTING DETAILS.
3. ALIGN EXHAUST VENTS BOTH VERTICAL AND HORIZONTAL.
4. EXTERIOR SIGNAGE: OWNER TO COORDINATE WITH SIGN VENDOR AND LOCAL JURISDICTION.
5. GUTTERS, DOWNSPOUTS, PARAPET CAP, AND FLASHING TO BE SELECTED FROM MANUFACTURER'S STANDARD COLORS TO MATCH ADJACENT FINISHES, SUBMIT FOR APPROVAL.
6. ALL COLOR TRANSITIONS OCCUR AT INSIDE CORNERS NOT OUTSIDE CORNERS.

GENERAL NOTE:
PROVIDE WEATHER BARRIER OVER ALL EXTERIOR SHEATHING PRIOR TO THE INSTALLATION OF ANY EXTERIOR FINISH MATERIAL. INSTALL PER MANUFACTURER'S SPECIFICATIONS AND PROVIDE ALL MANUFACTURER'S ACCESSORIES TO FULLY FLASH AND COUNTER-FLASH AT ALL WINDOWS, DOORS, AND EXTERIOR PENETRATIONS. PROVIDE A WEATHER TIGHT BARRIER AT ALL SURFACES. COORDINATE FLASHING WITH WINDOW, DOOR, VENT, ETC. MANUFACTURER'S FOR A WEATHERTIGHT SEAL AT ALL OPENINGS.

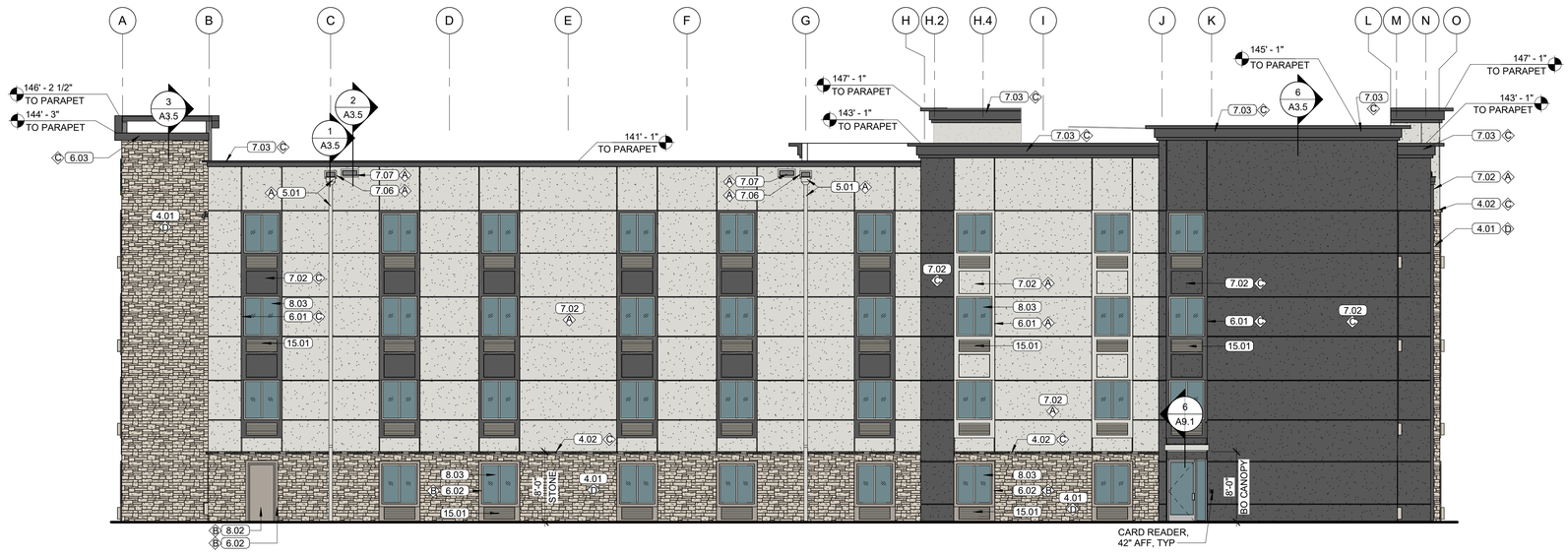
KEYNOTE LEGEND

1.01	SIGNAGE BY OWNER; UNDER SEPARATE PERMIT, CONTRACTOR TO COORDINATE BLOCKING WITH MANUFACTURER
4.01	ADHERED MANUFACTURED STONE VENEER: REF INSTALLATION DETAIL 6-A2.2
4.02	ADHERED MANUFACTURED STONE VENEER DRIPLEDGE
5.01	ALUMINUM GUTTERS AND DOWNSPOUTS
6.01	EIFS TRIM: 2-1/2"x4"
6.02	CEMENT BOARD TRIM AT STONE: 5/4"x4"
6.03	TRIM FASCIA
7.02	1-1/2" EXTERIOR EIFS: SEE COLOR SCHEDULE
7.03	1-1/2" EXTERIOR EIFS PARAPET: SEE COLOR SCHEDULE
7.06	SCUPPER
7.07	OVERFLOW SCUPPER
8.02	HOLLOW METAL DOOR
8.03	SLIDING WINDOW, TYP.: SEE SPECS
15.01	THRU-WALL HVAC UNIT
16.01	LIGHT WALL PACK, REF ELEC. DWGS.



2 LEFT SIDE ELEVATION

1/8" = 1'-0"



1 RIGHT SIDE ELEVATION

1/8" = 1'-0"

NOTE: THIS SHEET IS INTENDED TO BE PRINTED IN COLOR FOR CLARITY.

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Fax: 913-262-9044

Consultants

Issues & Revisions

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Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By: JP
Checked By: JL
Document Date: 08/16/23
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_B08
Project No. 31000541

Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB
ARCHITECT
LICENSE NO. 2022000409

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ARCHITECTURAL CORPORATION
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Sheet Title

EXTERIOR ELEVATIONS

Sheet No. A2.2

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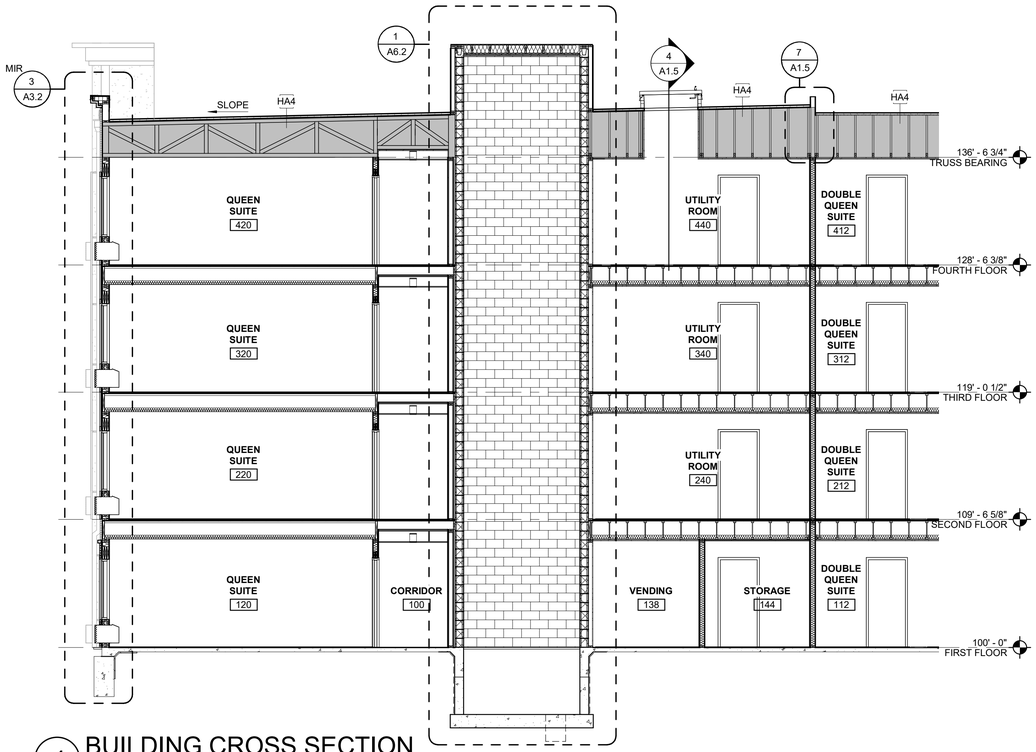
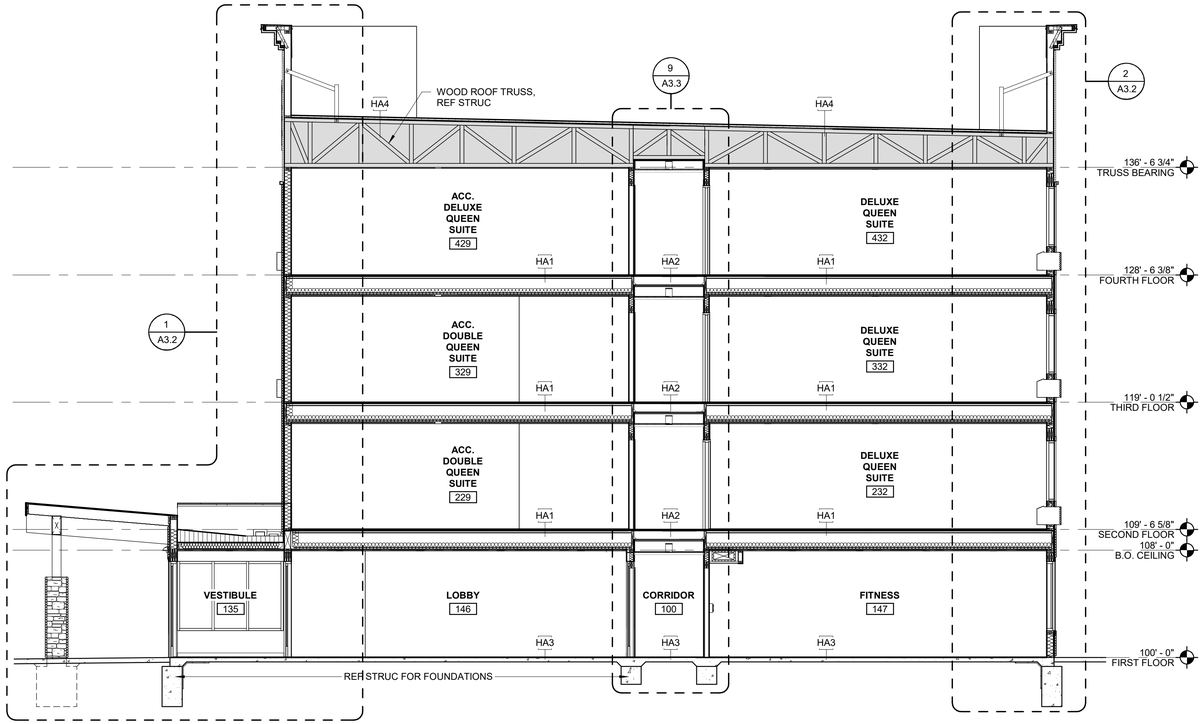
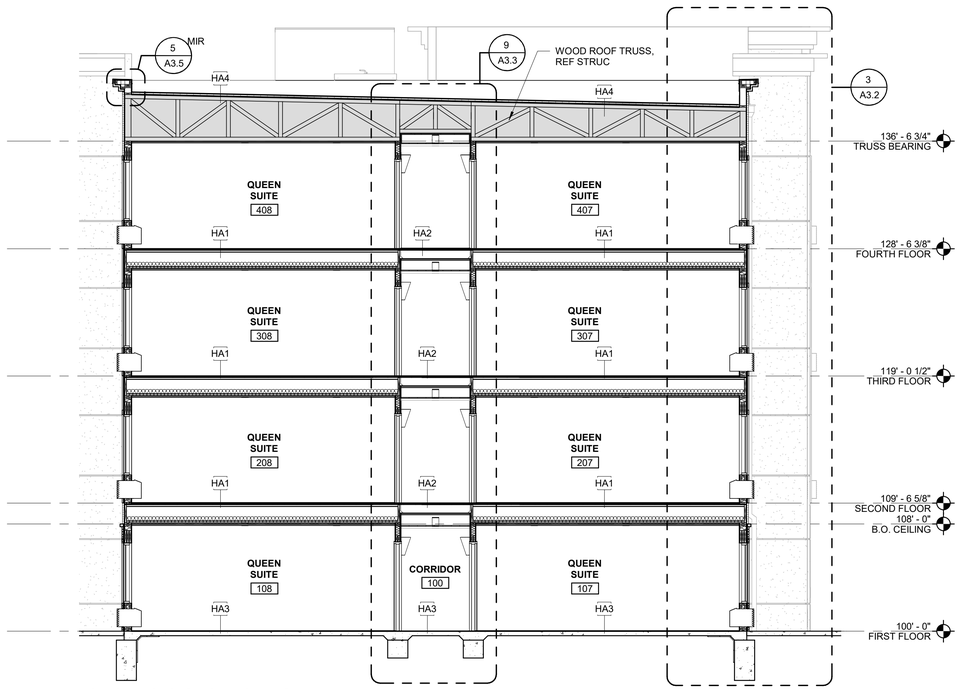


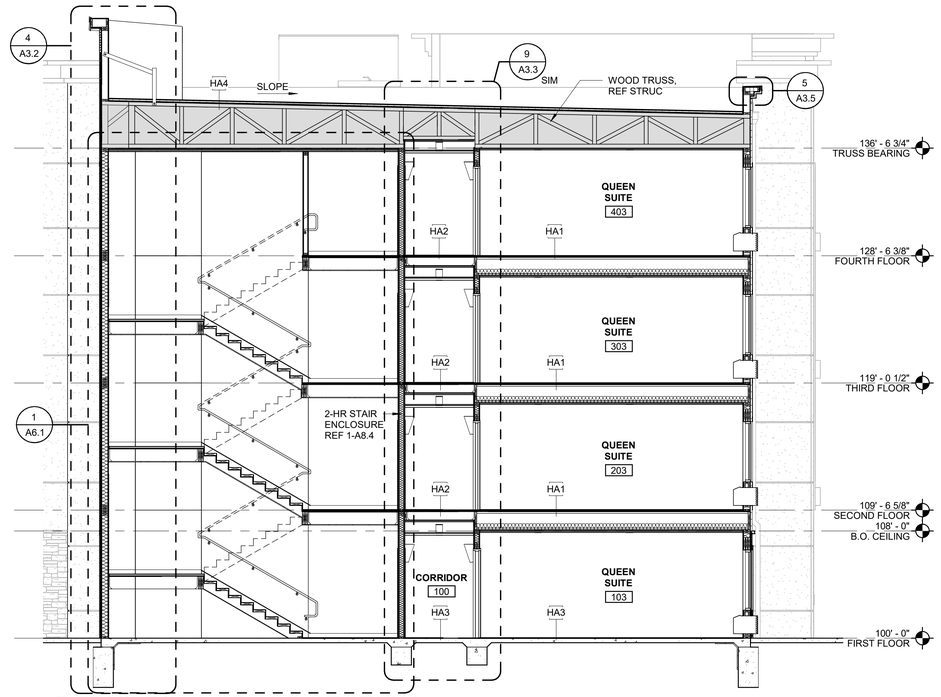
4 BUILDING CROSS SECTION
3/16" = 1'-0"



3 BUILDING CROSS SECTION
3/16" = 1'-0"



2 BUILDING CROSS SECTION
3/16" = 1'-0"



1 BUILDING CROSS SECTION
3/16" = 1'-0"

8/16/2023 12:50:11 PM

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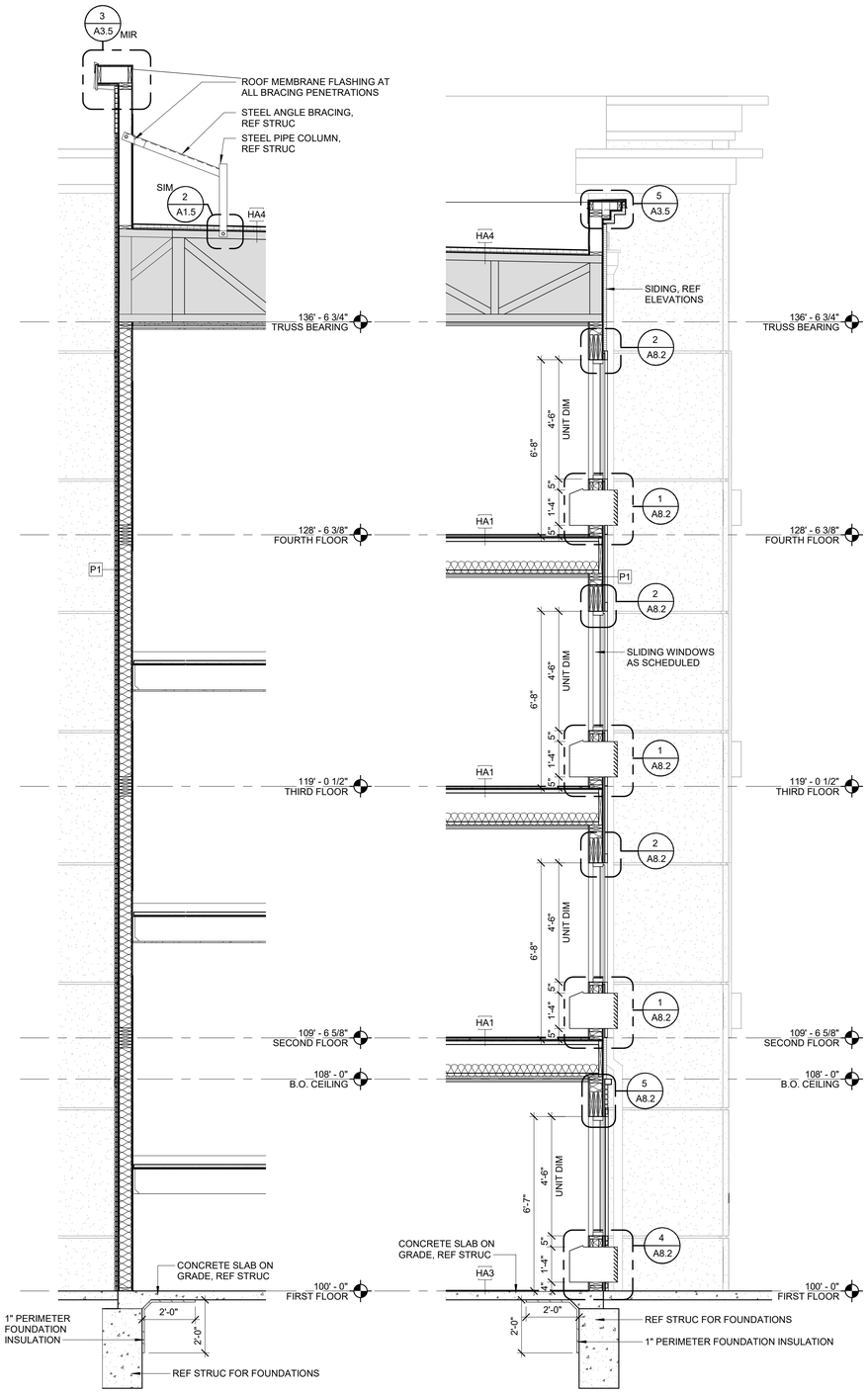
Sheet Title

BUILDING SECTIONS

Sheet No.

A3.1

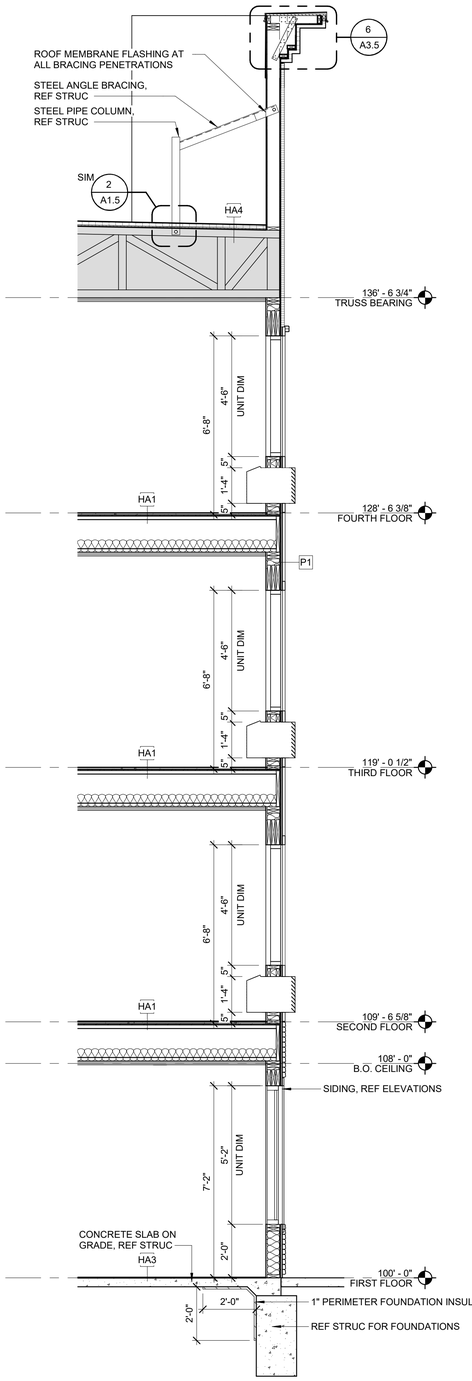


TYP EXTERIOR WALL AT STAIR TOWER

4 3/8" = 1'-0"

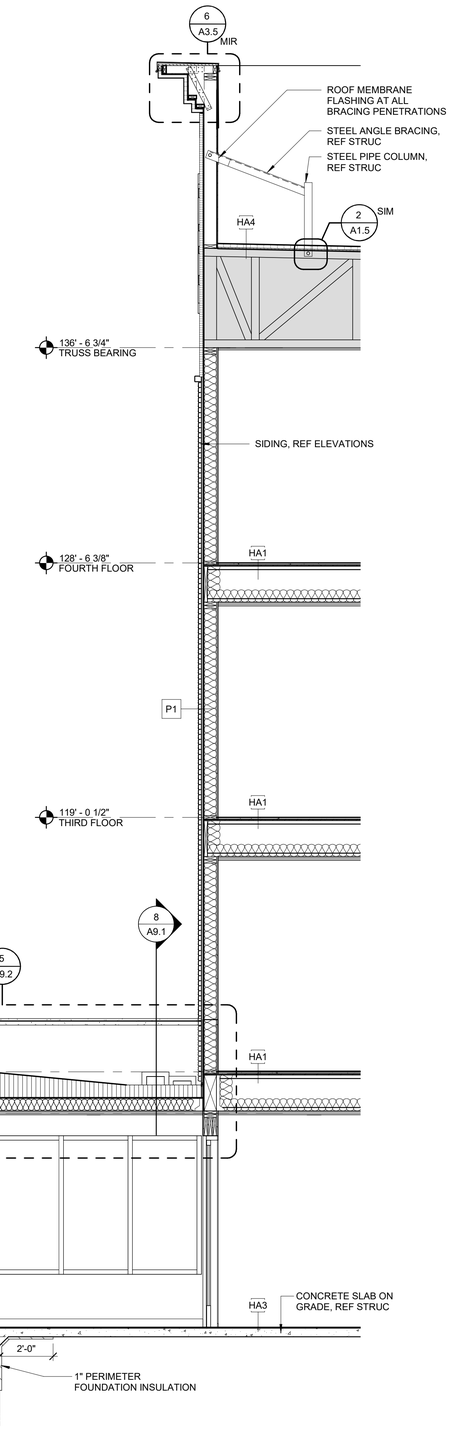
TYP EXTERIOR WALL AT WINDOW

3 3/8" = 1'-0"



TYP EXTERIOR WALL AT BUILDING MID SECTION

2 3/8" = 1'-0"



TYP EXTERIOR WALL AT ENTRANCE

1 3/8" = 1'-0"

8/16/2023 12:50:13 PM

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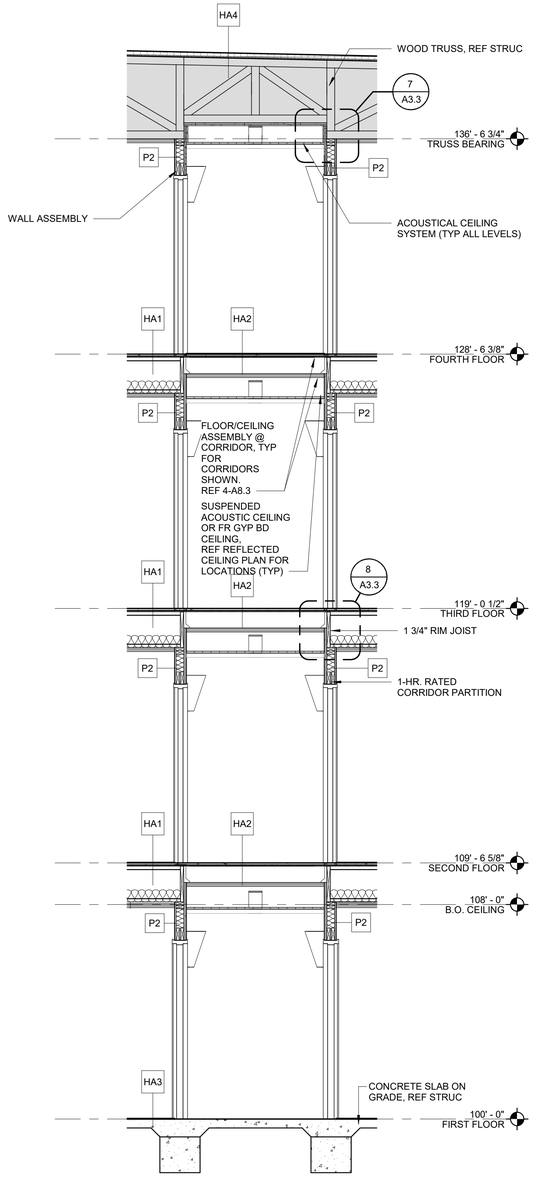
Sheet Title

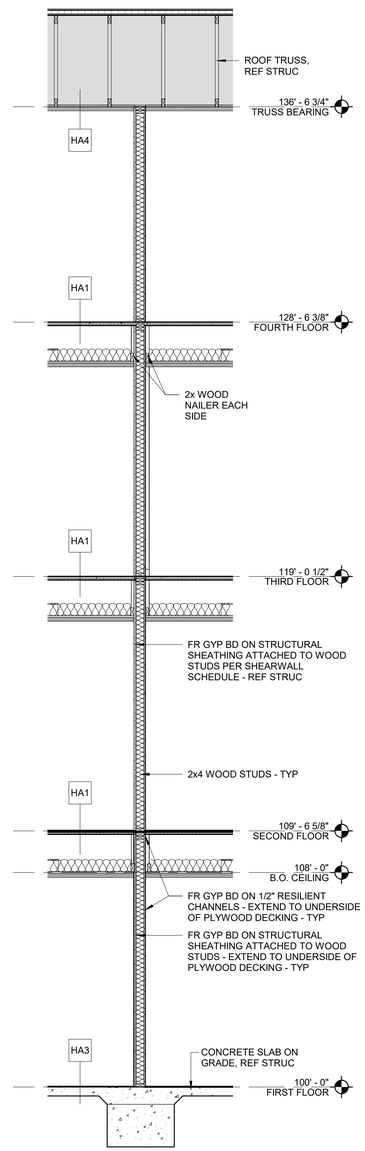
WALL SECTIONS

Sheet No.

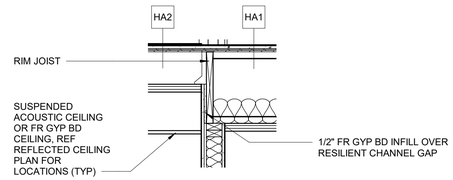
A3.2



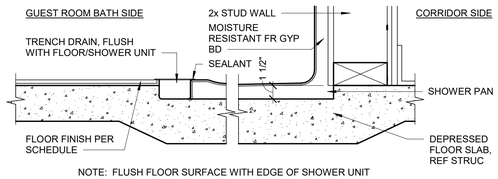
9 TYP CORRIDOR SECTION
3/8" = 1'-0"



3 TYP SHEARWALL SECTION
3/8" = 1'-0"



8 TYP. CORRIDOR
3/4" = 1'-0"

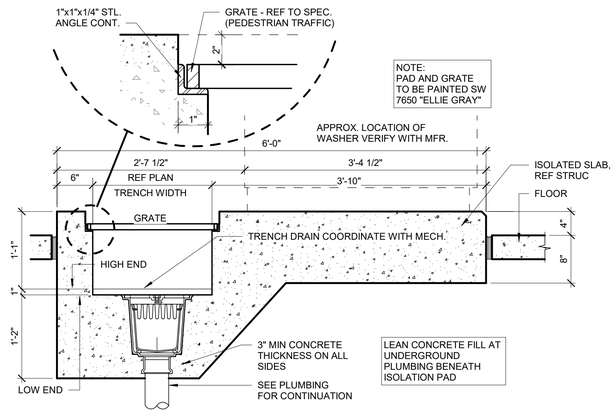


NOTE: FLUSH FLOOR SURFACE WITH EDGE OF SHOWER UNIT

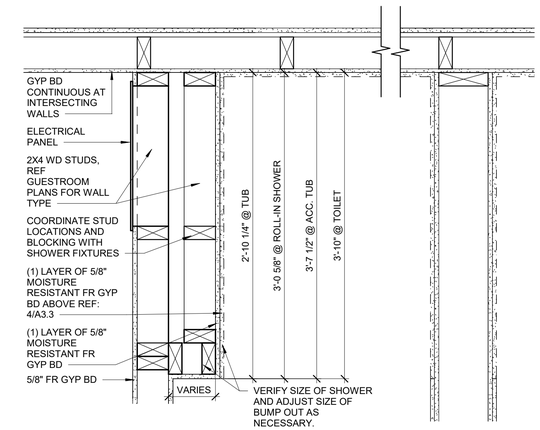
NOTE: WET SET SHOWER TO PROVIDE FIRM BASE

6 ROLL-IN SHOWER DETAILS
1 1/2" = 1'-0"

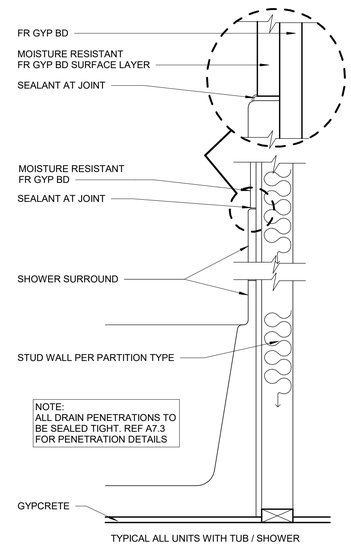
7 TYP @ 4TH FLOOR CORRIDOR
3/4" = 1'-0"



5 WASHER DRAIN DETAILS
1" = 1'-0"



2 SHOWER PLUMBING WALL
1 1/2" = 1'-0"



TYPICAL ALL UNITS WITH TUB / SHOWER

1 SECTION THRU TUB/SHOWER
1 1/2" = 1'-0"

8/16/2023 12:50:15 PM

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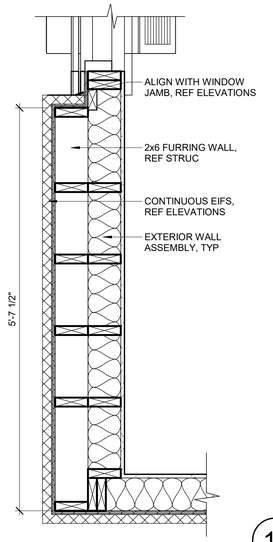
Sheet Title

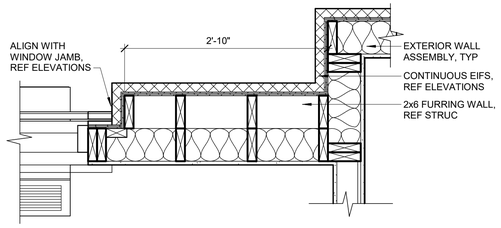
WALL SECTIONS & DETAILS

Sheet No.

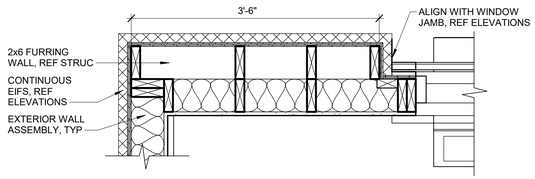
A3.3



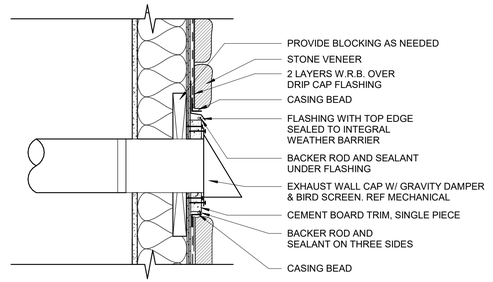
16 EIFS BUMP OUT - CONDITION 3
1" = 1'-0"



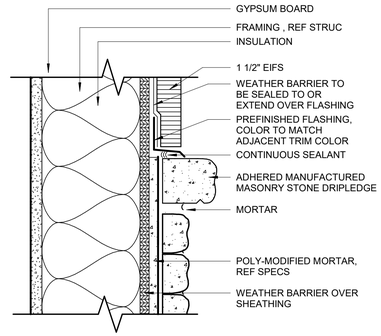
15 EIFS BUMP OUT - CONDITION 2
1" = 1'-0"



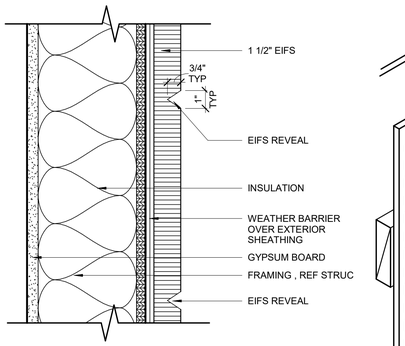
14 EIFS BUMP OUT - CONDITION 1
1" = 1'-0"



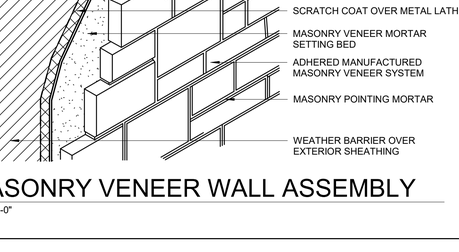
13 VENT DETAIL AT STONE
1 1/2" = 1'-0"



11 DRIPLEDGE FLASHING
3" = 1'-0"



10 TRIM DETAIL FLASHING
3" = 1'-0"



9 DOWNSPOUT CONNECTION
1 1/2" = 1'-0"

8 EIFS AT ENTRY
3" = 1'-0"

7 EIFS AT GRADE
3" = 1'-0"

6 EIFS AT SIDEWALK
3" = 1'-0"

5 JOINT DETAIL
3" = 1'-0"

4 MASONRY VENEER WALL ASSEMBLY
12" = 1'-0"

3 STONE AT ENTRY
3" = 1'-0"

2 STONE AT GRADE
3" = 1'-0"

1 STONE AT SIDEWALK
3" = 1'-0"

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Sheet Title

EXTERIOR DETAILS

Sheet No.

A3.4

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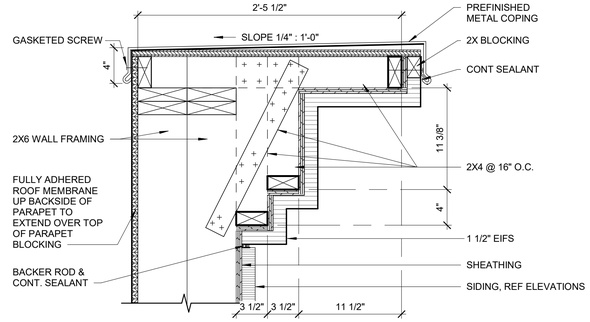
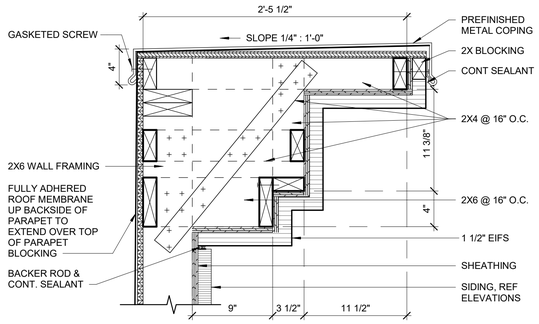


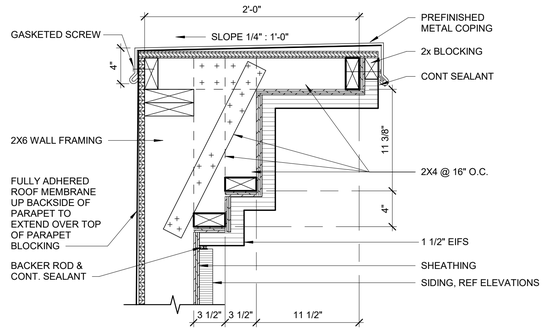
7 CORNICE B AT BUMP OUT

1 1/2" = 1'-0"



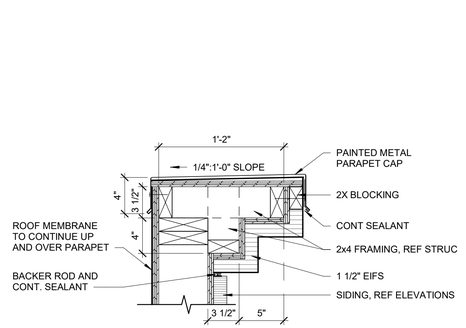
8 CORNICE C

1 1/2" = 1'-0"



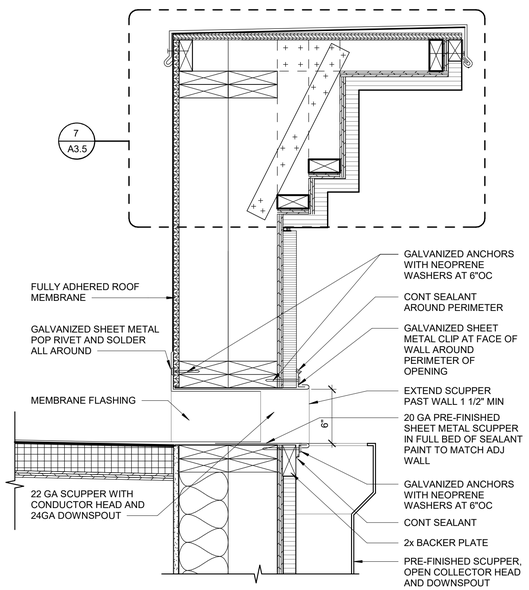
6 CORNICE B

1 1/2" = 1'-0"



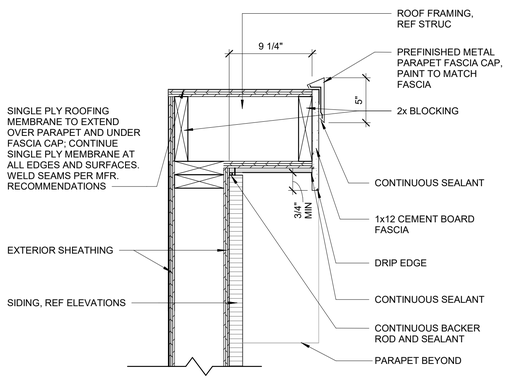
5 CORNICE A

1 1/2" = 1'-0"



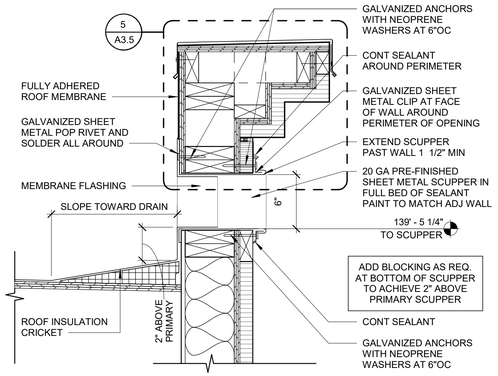
4 SCUPPER DETAIL - BUMP OUT

1 1/2" = 1'-0"



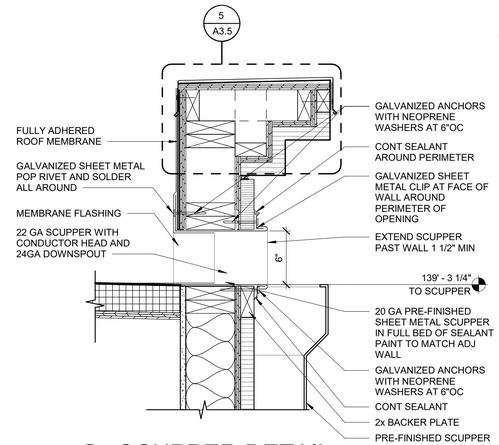
3 STAIR CAP DETAIL

1 1/2" = 1'-0"



2 OVERFLOW SCUPPER DETAIL

1 1/2" = 1'-0"



1 SCUPPER DETAIL

1 1/2" = 1'-0"

8/16/2023 12:50:17 PM

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Sheet Title

PARAPET DETAILS

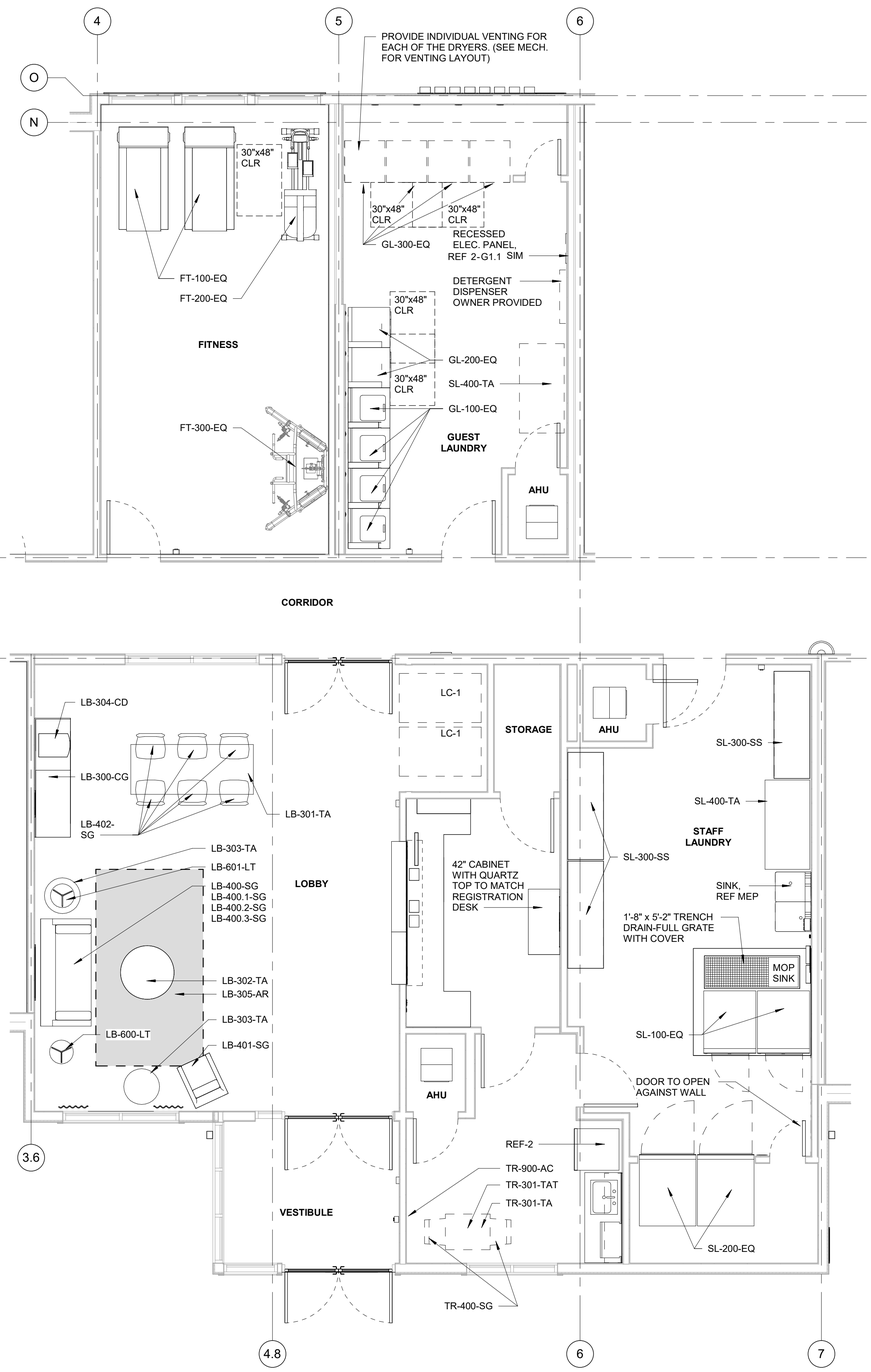
Sheet No.

A3.5

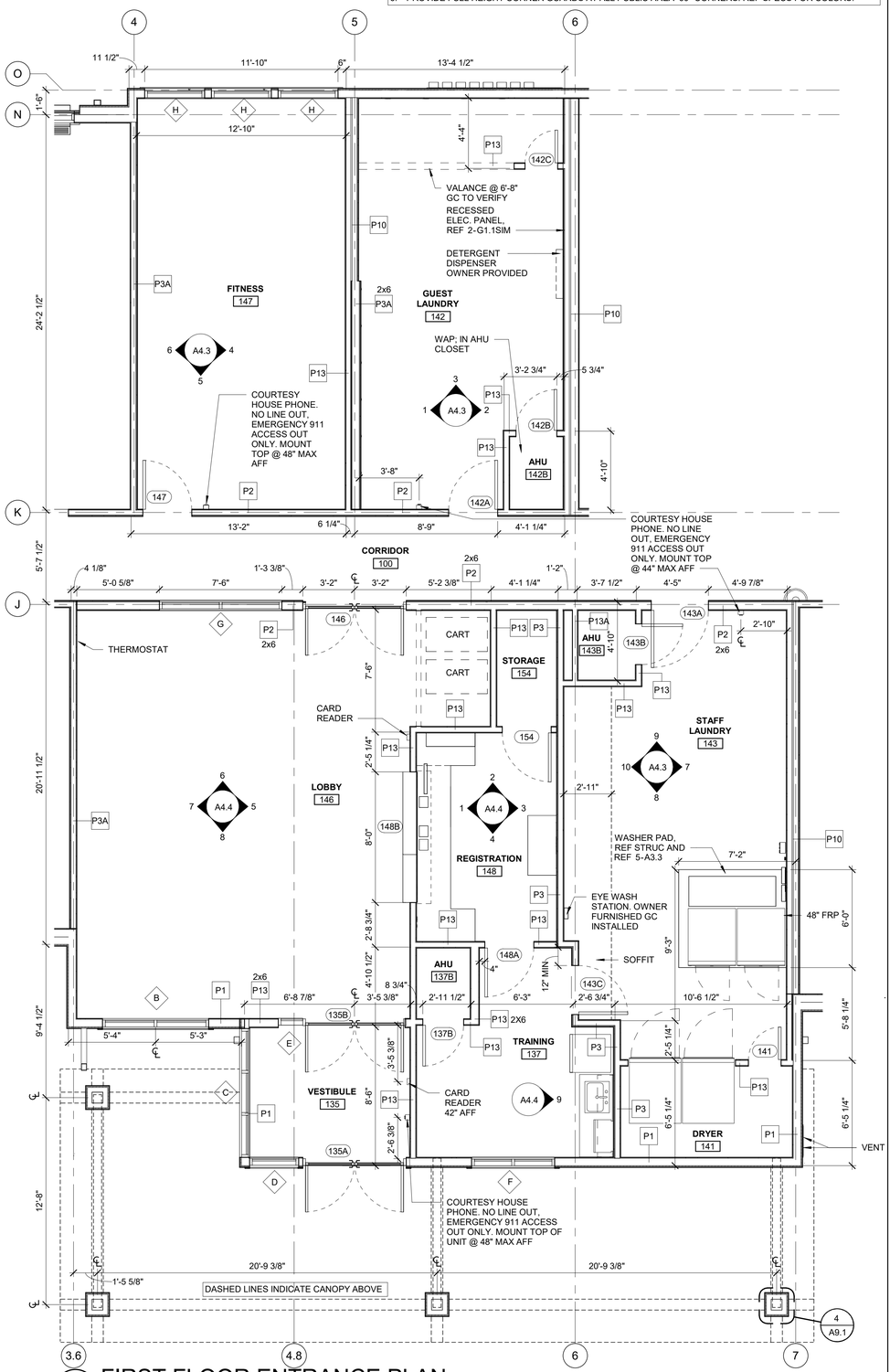
FIXTURE & EQUIPMENT LEGEND			
	QUANTITY	DESCRIPTION	NOTES
FT-100-EQ	2	932i TREADMILL	PROVIDED BY OWNER
FT-200-EQ	1	EFX 536i ELLIPTICAL FITNESS CROSSTRAINER	PROVIDED BY OWNER
FT-300-EQ	1	FTS GLIDE	PROVIDED BY OWNER
GL-100-EQ	5	QUANTUM COMMERCIAL TOP LOAD WASHER	PROVIDED BY OWNER
GL-200-EQ	1	QUANTUM COMMERCIAL FRONT LOAD WASHER	PROVIDED BY OWNER
GL-300-EQ	4	MICRO DISPLAY COMMERCIAL STACK DRYER	PROVIDED BY OWNER
LB-300-CG	1	SIDE CONSOLE	PROVIDED BY OWNER
LB-301-TA	1	COMMUNAL TABLE	PROVIDED BY OWNER
LB-302-TA	1	COFFEE TABLE	PROVIDED BY OWNER
LB-303-TA	1	SIDE TABLE	PROVIDED BY OWNER
LB-304-CD	1	COFFEE DISPENSER	PROVIDED BY OWNER
LB-305-AR	1	6'X8' AREA RUG	PROVIDED BY OWNER
LB-400-SG	1	SOFA	PROVIDED BY OWNER
LB-400.1-SG	2	SOFA PILLOW A FABRICATION	PROVIDED BY OWNER
LB-400.2-SG	2	SOFA PILLOW B FABRICATION	PROVIDED BY OWNER
LB-400.3-SG	1	SOFA PILLOW C FABRICATION	PROVIDED BY OWNER
LB-401-SG	1	LOUNGE CHAIR	PROVIDED BY OWNER
LB-402-SG	6	COUNTER STOOL	PROVIDED BY OWNER
LB-600-LT	1	FLOOR LAMP	PROVIDED BY OWNER
LB-601-LT	1	TABLE LAMP	PROVIDED BY OWNER
LB-700-ART	1	ARTWORK	PROVIDED BY OWNER
LB-701-VG	1	LEAF LOGO	PROVIDED BY OWNER
LC-1	2	LUGGAGE CART	PROVIDED BY OWNER
REF-2	1	REFRIGERATOR	PROVIDED BY GC
SL-100-EQ	2	MAYTAG MULTI-LOAD RIGID-MOUNT WASHER	PROVIDED BY GC
SL-200-EQ	2	MAYTAG COMMERCIAL ON-PREMISES DRYING TUMBLER	PROVIDED BY GC
SL-300-SS	3	SANDUSKYLEE BULK STORAGE RACK 77"X24"X72"	PROVIDED BY OWNER
SL-400-TA	1	HERITAGE FOLDING TABLE 30"X60"	PROVIDED BY OWNER
TR-301-TA	1	TABLE BASE 33"X33"	PROVIDED BY OWNER
TR-301-TAT	1	TABLE TOP 42" D	PROVIDED BY OWNER
TR-900-AC	1	WALL MOUNTED COAT RACK	PROVIDED BY OWNER
TR-400-SG	2	DESK CHAIR	PROVIDED BY OWNER

GENERAL NOTES:
1. GC TO COORDINATE DELIVERY AND STORAGE W/ FF&E SUPPLIER.
2. INTERIOR SIGNAGE PROVIDED AND INSTALLED BY OWNER'S VENDOR.
3. GC TO INSTALL OWNER FURNISHED GROMMETS. GC TO COORDINATE WITH OWNER FOR THE LOCATION, SIZE AND NUMBER OF GROMMET HOLES AT OFFICE COUNTER FOR OFFICE EQUIPMENT CABLES AND WIRING.
4. PROVIDE WEATHER STRIP AROUND DRYER TO INSULATE FROM AIR INTAKE BY LOUVER.
5. REF. DIMENSIONS OF MECHANICAL WALL PENETRATIONS ON MECHANICAL DRAWINGS.
6. PROVIDE FULL HEIGHT CORNER GUARDS AT ALL PUBLIC AREA .90° CORNERS. REF SPECS FOR COLORS.

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



2 FIRST FLOOR FURNITURE PLAN
1/4" = 1'-0"



1 FIRST FLOOR ENTRANCE PLAN
1/4" = 1'-0"

brr

Architect of Record:
BRR Architecture, Inc.

8131 METCALF AVE,
SUITE 300
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Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By: JP
Checked By: JL
Document Date: 08/16/23
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_808

Project No.

31000541

Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB
ARCHITECT
LICENSE NO. 2022000409

BRR ARCHITECTURE, INC.
ARCHITECTURAL CORPORATION
MISSOURI LICENSE NO. ARC 000160

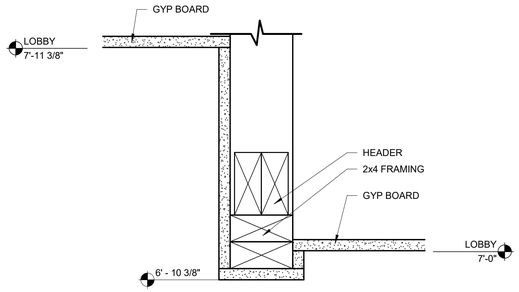
Sheet Title

ENLARGED PUBLIC PLANS

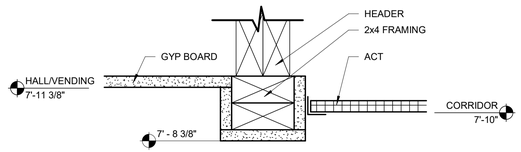
Sheet No.

A4.1

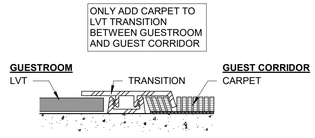
8/16/2023 12:50:19 PM



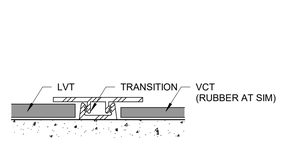
6 LOBBY SOFFIT
3" = 1'-0"



5 CORRIDOR SOFFIT
3" = 1'-0"



4 TRANSITION LVT TO CARPET
12" = 1'-0"



3 TRANSITION LVT TO LVT
12" = 1'-0"

CEILING FINISH KEY	FLOOR FINISH KEY
2'x2' ACOUSTICAL CEILING TILE	LVT-1
FR GYP BD WITH KNOCK DOWN TEXTURE	LVT-2
FR GYP BD	RUBBER FLOOR TILE
SURFACE/RECESSED LIGHT FIXTURE	CARPET
FLUORESCENT LIGHT FIXTURE	WALL PROTECTION. 2'-0" OR 4'-0" HIGH, REF INTERIOR ELEVATIONS AND SPECS
PENDANT LIGHT FIXTURE, REF ELECTRICAL NOTE: REF ELECTRICAL SHEETS FOR ALL LIGHT LOCATIONS AND FIXTURE TYPES ALL CEILING LIGHTS TO BE CENTERED WITHIN CEILING TILES	WALL BUMPER GUARD AT TOP OF WALL PROTECTION, REF SPECS
EXIT LIGHT FIXTURE, REF ELEC	

PAINT GYP CEILINGS SW7636 "ORIGAMI WHITE" UNLESS NOTED OTHERWISE

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

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

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Sheet Title

ENLARGED FINISH PLANS

Sheet No. A4.2

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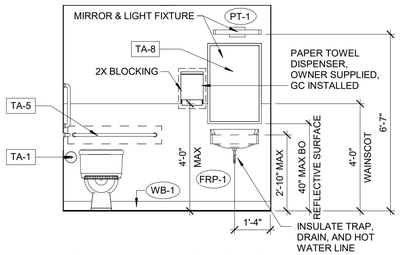
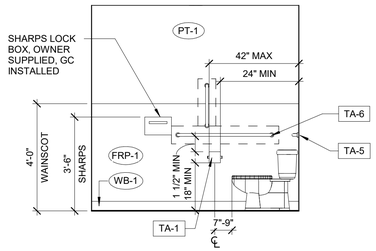
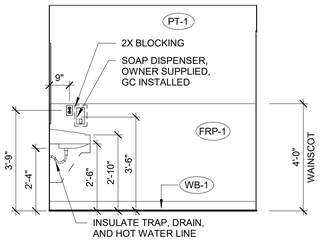


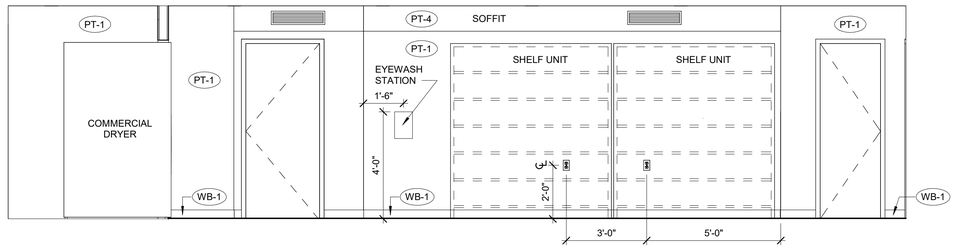
13 PUBLIC RESTROOM
3/8" = 1'-0"



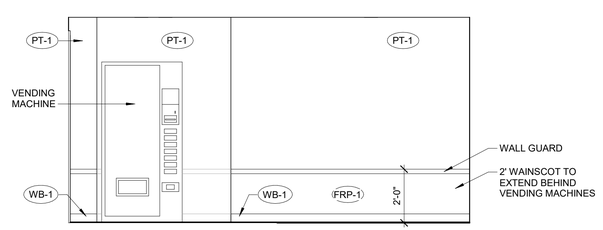
12 PUBLIC RESTROOM
3/8" = 1'-0"



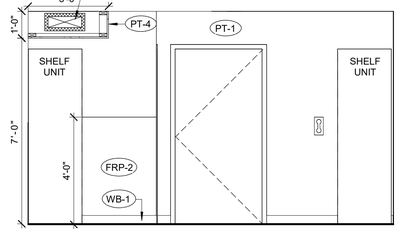
11 PUBLIC RESTROOM
3/8" = 1'-0"



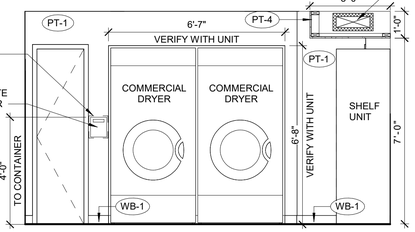
10 STAFF LAUNDRY
3/8" = 1'-0"



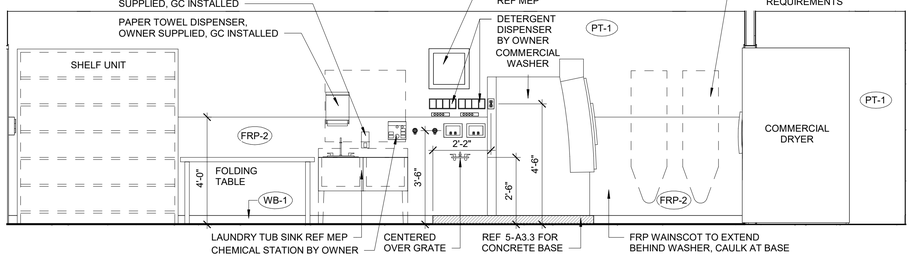
14 ELEVATOR LOBBY
3/8" = 1'-0"



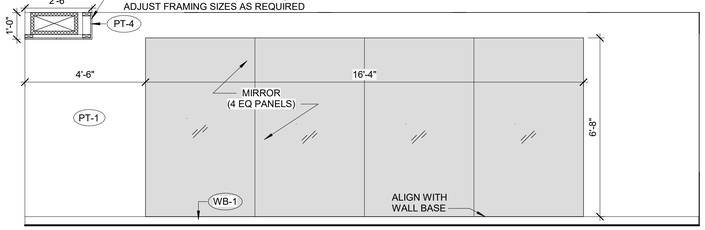
9 STAFF LAUNDRY
3/8" = 1'-0"



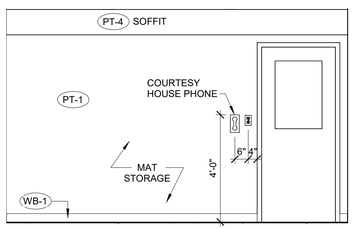
8 STAFF LAUNDRY
3/8" = 1'-0"



7 STAFF LAUNDRY
3/8" = 1'-0"



6 FITNESS
3/8" = 1'-0"



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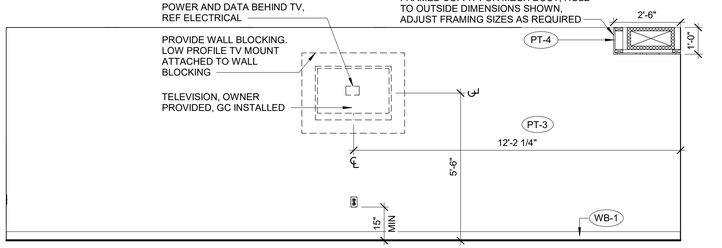
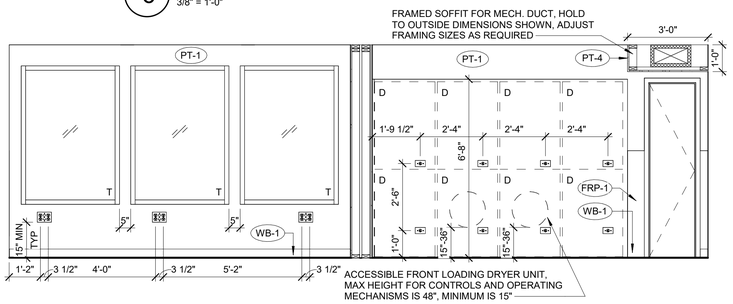
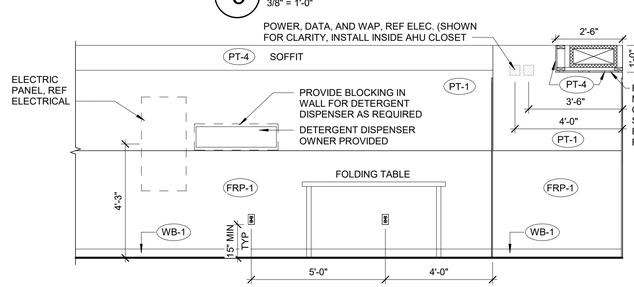
3/8" = 1'-0"



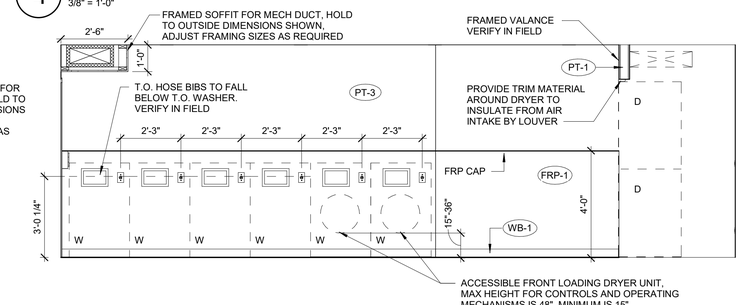
4 FITNESS
3/8" = 1'-0"



3 FITNESS & GUEST LAUNDRY
3/8" = 1'-0"



2 GUEST LAUNDRY
3/8" = 1'-0"



1 GUEST LAUNDRY
3/8" = 1'-0"

8/16/2023 12:50:24 PM

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Consultants

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STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
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TREVOR TYSON HOLCOMB ARCHITECT
LICENSE NO. 2022000409

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Sheet Title

INTERIOR ELEVATIONS

Sheet No.

A4.3

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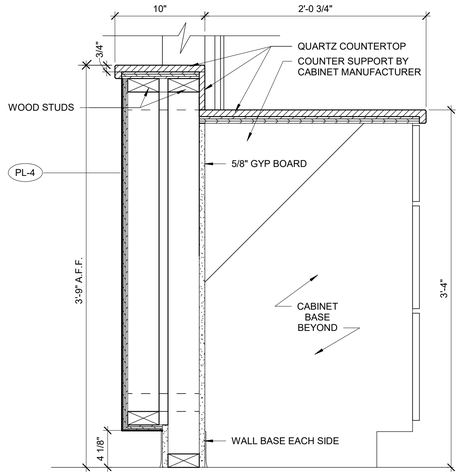
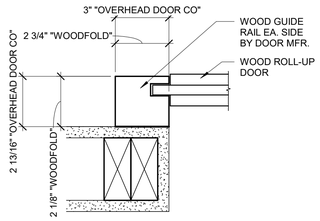
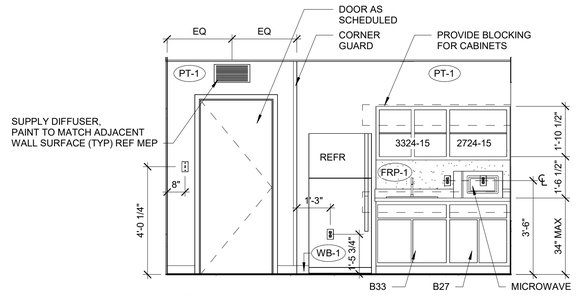


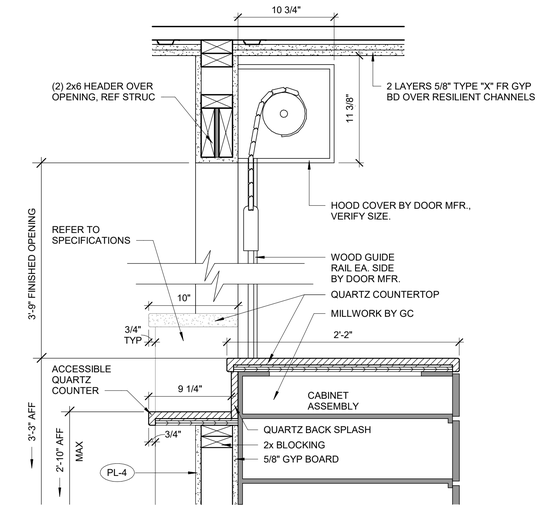
11 REGISTRATION - SECTION
1 1/2" = 1'-0"



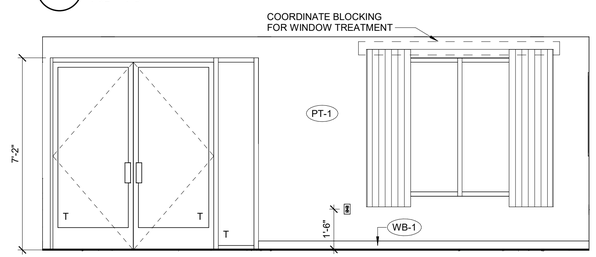
10 OVERHEAD DOOR JAMB
3" = 1'-0"



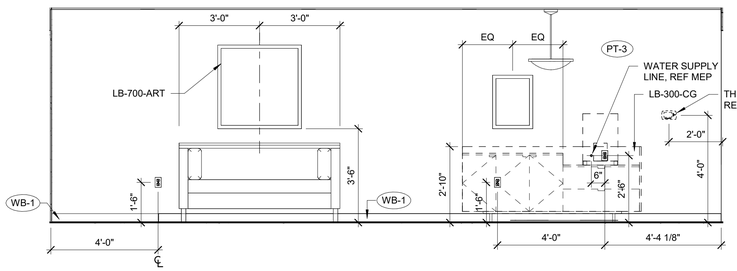
9 TRAINING
3/8" = 1'-0"



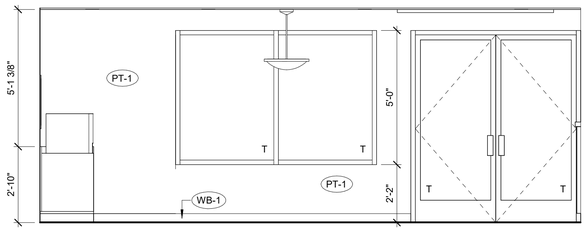
12 OVERHEAD DOOR SECTION
1 1/2" = 1'-0"



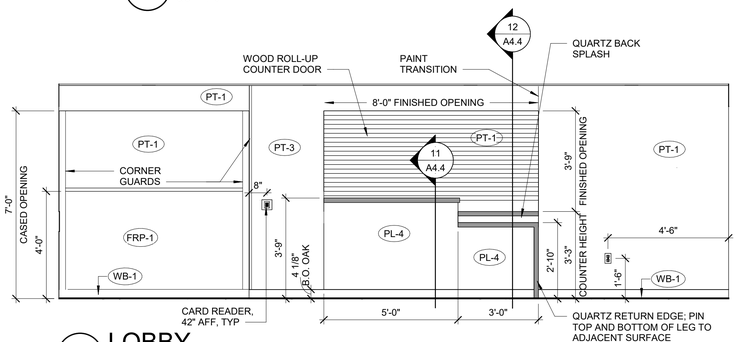
8 LOBBY
3/8" = 1'-0"



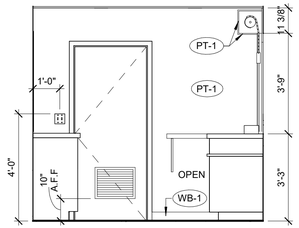
7 LOBBY
3/8" = 1'-0"



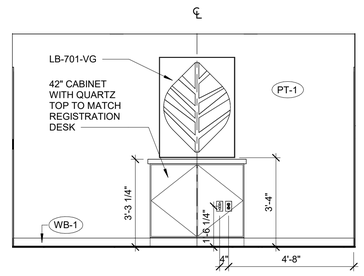
6 LOBBY
3/8" = 1'-0"



5 LOBBY
3/8" = 1'-0"



4 REGISTRATION
3/8" = 1'-0"



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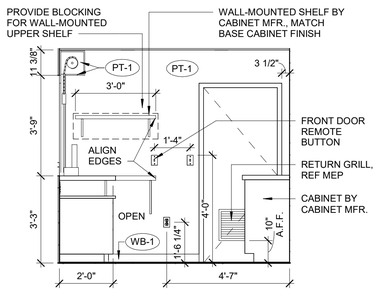
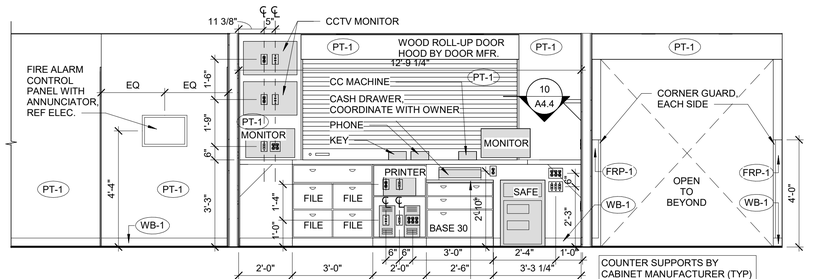
3/8" = 1'-0"



2 REGISTRATION
3/8" = 1'-0"



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

8/16/2023 12:50:27 PM

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Sheet Title

INTERIOR ELEVATIONS

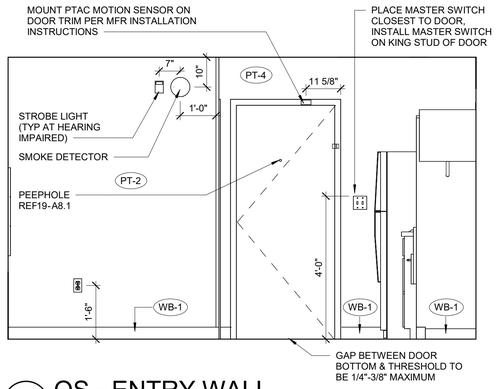
Sheet No.

A4.4

QUEEN SUITE FIXTURE & EQUIPMENT LEGEND			
	QUANTITY	DESCRIPTION	PROVIDED BY:
GR-300-CG	1	QUEEN HEADBOARD - PLAM	OWNER
GR-301-CG	1	NIGHTSTAND - 20"	OWNER
GR-302-CG	1	CLOSET - 27"	OWNER
GR-304-CG	1	DRESSER	OWNER
GR-305-CG	1	DESK - 2'-10"	OWNER
GR-308-CG	1	CUBBY	OWNER
GR-400-SG	1	LOUNGE CHAIR	OWNER
GR-402-SG	1	DESK CHAIR	OWNER
GR-500-BDS	1	QUEEN MATTRESS	OWNER
GR-501-BDS	1	QUEEN BED FRAME	OWNER
GR-502-BD	1	QUEEN MATTRESS PAD	OWNER
GR-503-BD	1	QUEEN CUMULUS TOP COVER	OWNER
GR-504-BD	1	QUEEN XL FLAT SHEET	OWNER
GR-505-BD	1	QUEEN SNOWSTORM BLANKET	OWNER
GR-506-BD	1	QUEEN BEDSKIRT FABRICATION	OWNER
GR-514-BD	2	STANDARD PILLOWCASE	OWNER
GR-521-WT	1	WINDOW BLINDS	OWNER
GR-600-LT	1	TABLE LAMP	OWNER
GR-703-ART	1	WALL ARTWORK	OWNER
REF-1	1	REFRIGERATOR	GC
CT-1	1	STOVE TOP	GC

NOTE:
PROVIDE WOOD BLOCKING FOR ALL WALL MOUNTED ITEMS SHOWN, INCLUDING ITEMS FURNISHED AND INSTALLED BY OWNER.

SYMBOL LEGEND	
	RECEPTACLE
	PHONE/DATA OUTLET
	SWITCH
TV	TELEVISION
	SPECIAL OUTLET
T	LIGHT/TIME DELAY SWITCH
REF ELECTRICAL FOR SWITCH AND RECEPTACLE INFORMATION	

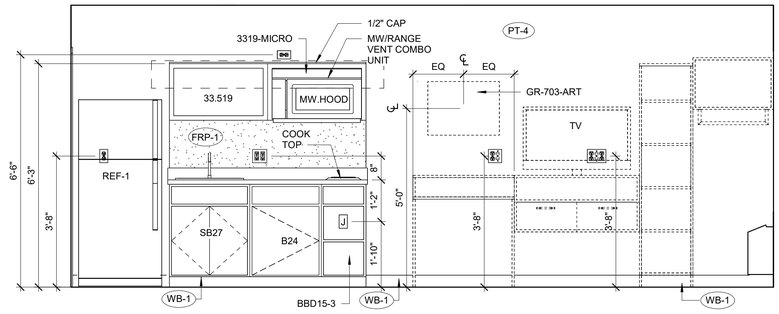


7 QS - ENTRY WALL
1/2" = 1'-0"

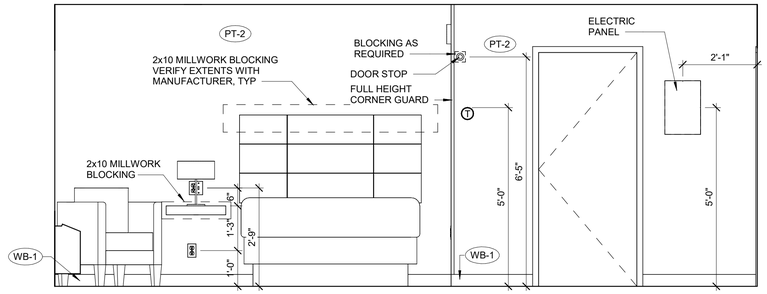
NOTE:
DRILL 1" HOLE IN TOP OF CABINET, CENTERED BEHIND THE MICROWAVE, FOR OUTLET ACCESS. TIE UP EXCESS CORD. AND FASTEN TO CABINET TOP.

SILICONE CAULKING TO MATCH COLOR OF COUNTERTOP

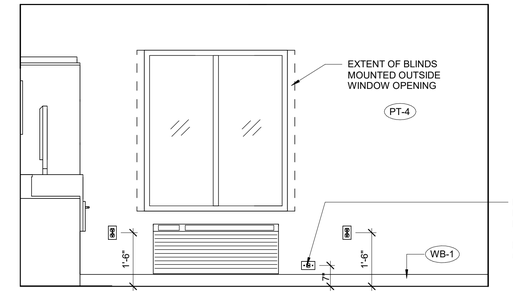
OBTAIN CASE GOOD LINE DRAWINGS, COORDINATE AND FIELD VERIFY 2x10 BLOCKING AND ELECTRICAL DEVICE LOCATIONS



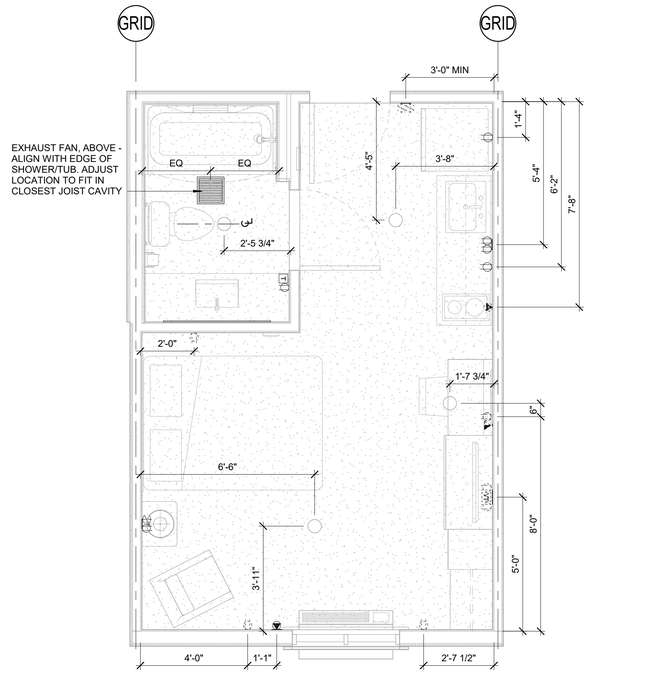
6 QS - TV WALL
1/2" = 1'-0"



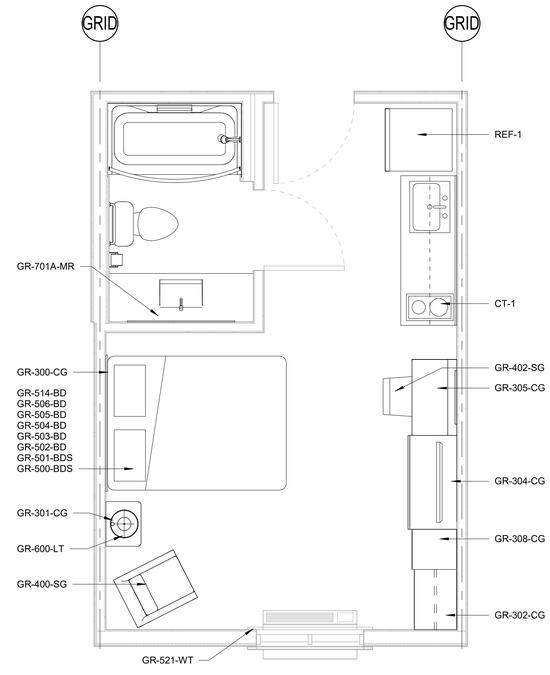
5 QS - BED WALL
1/2" = 1'-0"



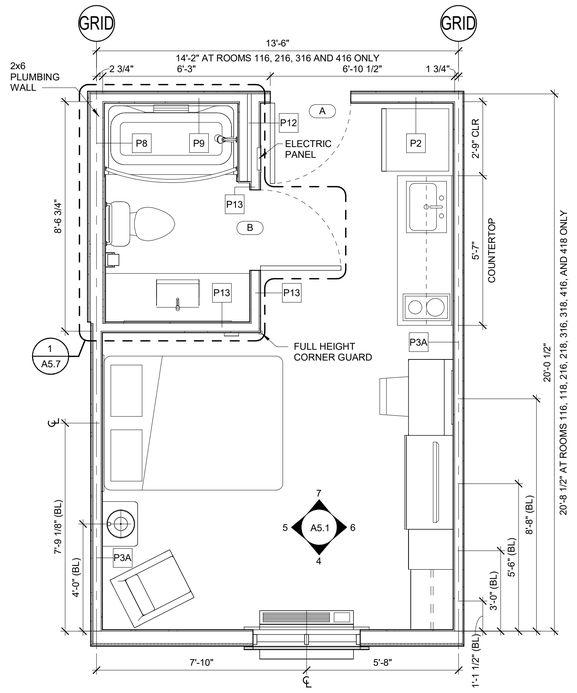
4 QS - WINDOW WALL
1/2" = 1'-0"



3 QS - ELECTRICAL
3/8" = 1'-0"



2 QS - FURNITURE
3/8" = 1'-0"



1 QS - ARCHITECTURAL
3/8" = 1'-0"

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Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By: JP
Checked By: JL
Document Date: 08/16/23
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_B08
Project No. 31000541
Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB
ARCHITECT
LICENSE NO. 2022000409

BRR ARCHITECTURE, INC.
ARCHITECTURAL CORPORATION
MISSOURI LICENSE NO. ARC 000160

Sheet Title

GUESTROOM - QUEEN SUITE

Sheet No.

A5.1

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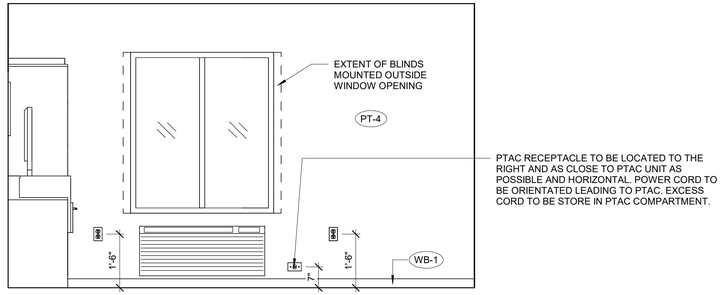
8/16/2023 12:50:29 PM

ACC QUEEN SUITE FIXTURE & EQUIPMENT LEGEND			
	QUANTITY	DESCRIPTION	PROVIDED
GR-300-CG	1	QUEEN HEADBOARD - PLAM	OWNER
GR-301-CG	1	NIGHTSTAND - 20"	OWNER
GR-302.2-CG	1	CLOSET - 24"	OWNER
GR-304-CG	1	DRESSER	OWNER
GR-305.1-CG	1	DESK - 3'-6"	OWNER
GR-308-CG	1	CUBBY	OWNER
GR-400-SG	1	LOUNGE CHAIR	OWNER
GR-402-SG	1	DESK CHAIR	OWNER
GR-500-BDS	1	QUEEN MATTRESS	OWNER
GR-501-BDS	1	QUEEN BED FRAME	OWNER
GR-502-BD	1	QUEEN MATTRESS PAD	OWNER
GR-503-BD	1	QUEEN CUMULUS TOP COVER	OWNER
GR-504-BD	1	QUEEN XL FLAT SHEET	OWNER
GR-505-BD	1	QUEEN SNOWSTORM BLANKET	OWNER
GR-506-BD	1	QUEEN BEDSKIRT FABRICATION	OWNER
GR-514-BD	2	STANDARD PILLOWCASE	OWNER
GR-521-WT	1	WINDOW BLINDS	OWNER
GR-600-LT	1	TABLE LAMP	OWNER
GR-700A-MR	1	DECORATIVE FRAMED MIRROR ADA	OWNER
GR-703-ART	1	WALL ARTWORK	OWNER
REF-2	1	REFRIGERATOR (ADA)	GC
CT-1	1	STOVE TOP	GC

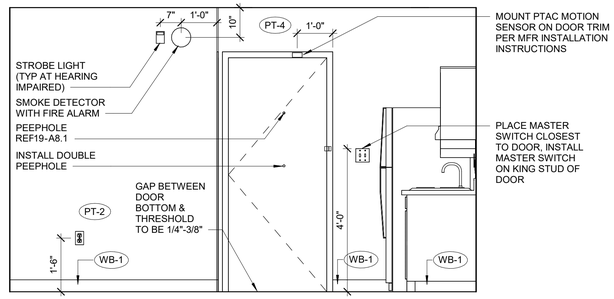
NOTE:
PROVIDE WOOD BLOCKING FOR ALL WALL MOUNTED ITEMS SHOWN, INCLUDING ITEMS FURNISHED AND INSTALLED BY OWNER.

SYMBOL LEGEND	
	RECEPTACLE
	PHONE/DATA OUTLET
	SWITCH
TV	TELEVISION
	SPECIAL OUTLET
T	LIGHT/TIME DELAY SWITCH

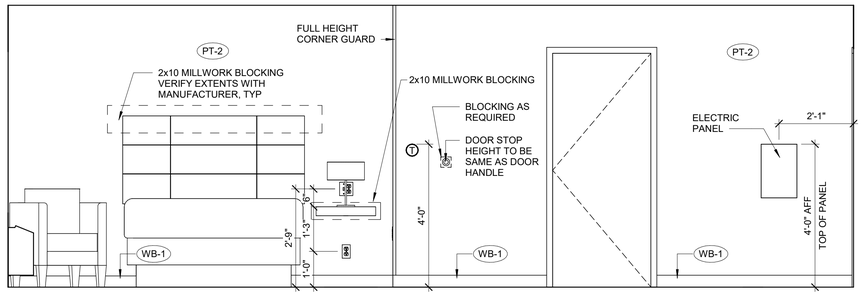
REF ELECTRICAL FOR SWITCH AND RECEPTACLE INFORMATION



9 ACC. QS - WINDOW WALL
1/2" = 1'-0"



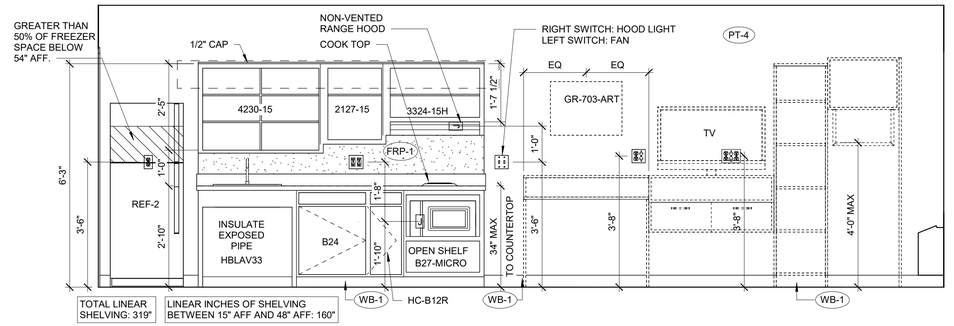
8 ACC. QS - ENTRY WALL
1/2" = 1'-0"



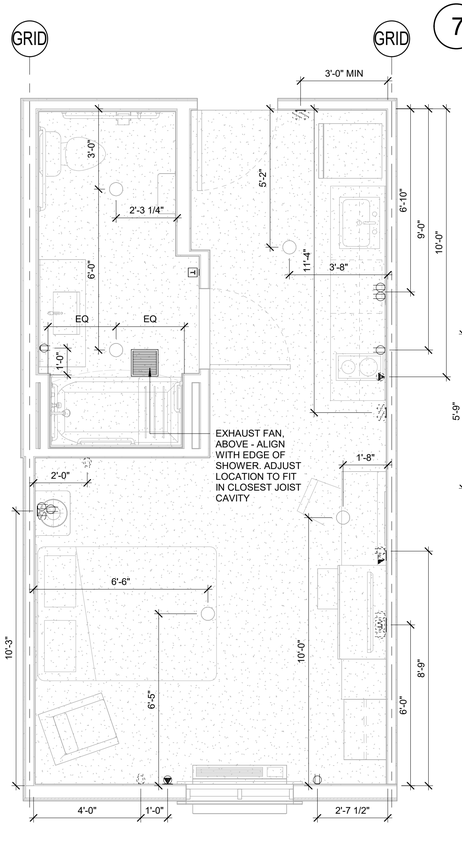
7 ACC. QS - BED WALL
1/2" = 1'-0"

SILICONE CAULKING TO MATCH COLOR OF COUNTERTOP

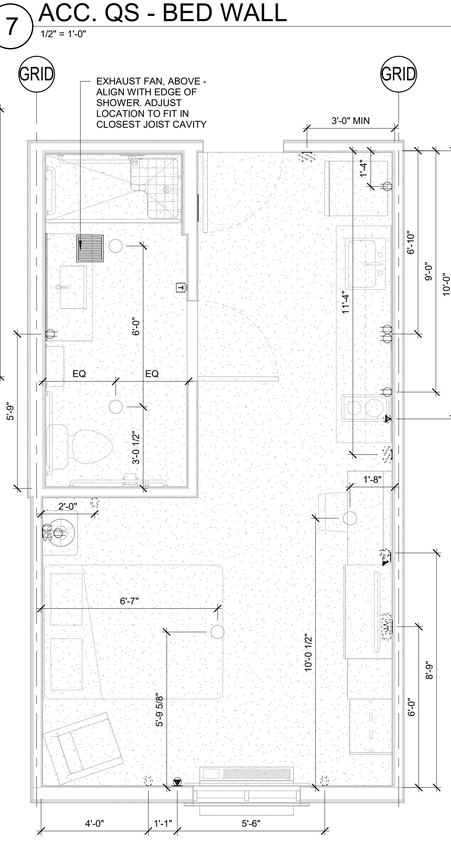
OBTAIN CASE GOOD LINE DRAWINGS, COORDINATE AND FIELD VERIFY 2x10 BLOCKING AND ELECTRICAL DEVICE LOCATIONS



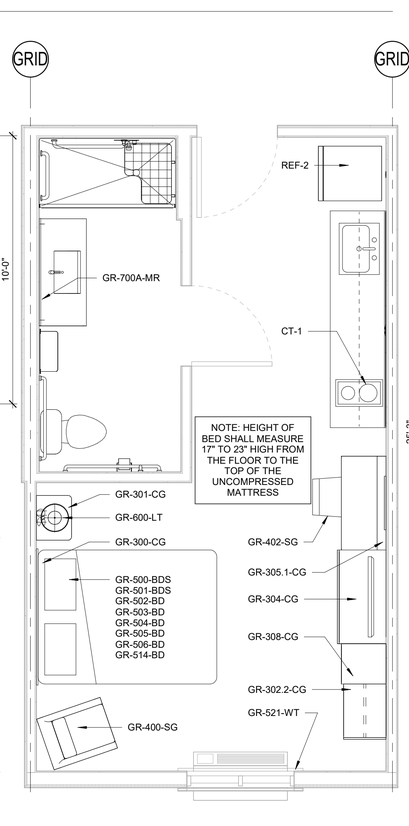
6 ACC. QS - TV WALL
1/2" = 1'-0"



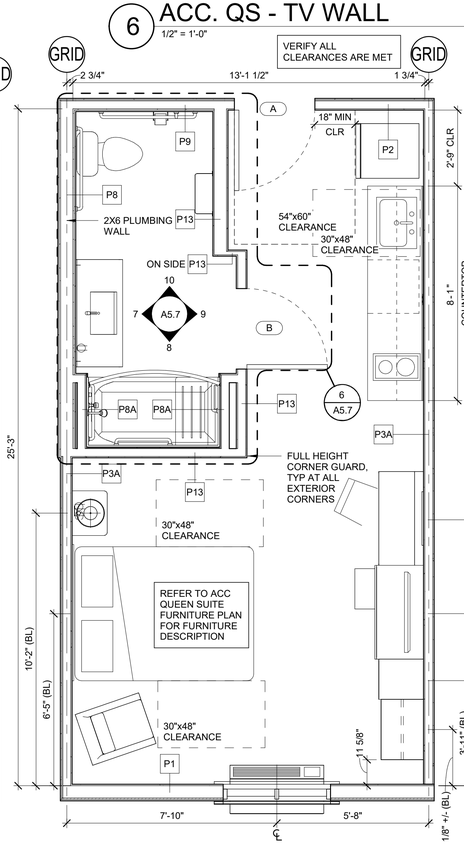
5 ACC. QS - ELECTRICAL
3/8" = 1'-0"



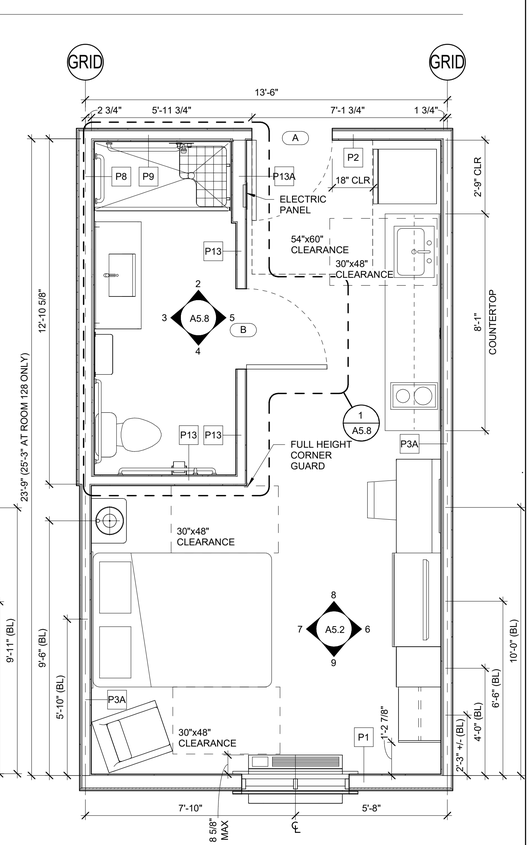
4 ACC. QS - ELECTRICAL
3/8" = 1'-0"



3 ACC. QS - FURNITURE
3/8" = 1'-0"



2 ACC. QS - ARCHITECTURAL
3/8" = 1'-0"
ACCESSIBLE TUB



1 ACC. QS - ARCHITECTURAL
3/8" = 1'-0"
ROLL-IN SHOWER (FIRST FLOOR)

8/16/2023 12:50:31 PM

brr

Architect of Record:
BRR Architecture, Inc.

8131 METCALF AVE,
SUITE 300
OVERLAND PARK, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

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WOODSPRING SUITES

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Professional Seal

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TREVOR TYSON HOLCOMB
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TREVOR TYSON HOLCOMB
ARCHITECT
LICENSE NO. 2022000409

BRR ARCHITECTURE, INC.
ARCHITECTURAL CORPORATION
MISSOURI LICENSE NO. ARC 000160

Sheet Title

GUESTROOM - ACCESSIBLE QUEEN SUITE

Sheet No.

A5.2

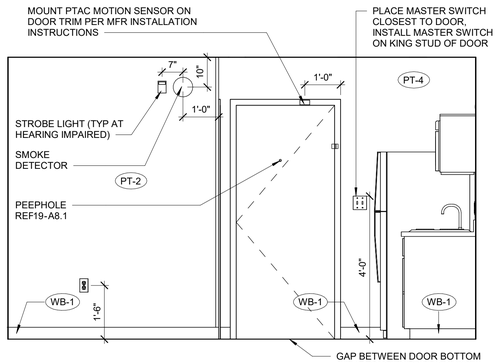
BRR Original printed on recycled paper

DOUBLE QUEEN SUITE FIXTURE & EQUIPMENT LEGEND			
	QUANTITY	DESCRIPTION	PROVIDED BY:
GR-300-CG	2	QUEEN HEADBOARD - PLAM	OWNER
GR-301-CG	1	NIGHTSTAND - 20"	OWNER
GR-302.2-CG	2	CLOSET - 27"	OWNER
GR-304-CG	1	DRESSER	OWNER
GR-305.2-CG	1	DESK - 4'-0"	OWNER
GR-308-CG	1	CUBBY	OWNER
GR-402-SG	2	DESK CHAIR	OWNER
GR-500-BDS	2	QUEEN MATTRESS	OWNER
GR-501-BDS	2	QUEEN BED FRAME	OWNER
GR-502-BD	2	QUEEN MATTRESS PAD	OWNER
GR-503-BD	2	QUEEN CUMULUS TOP COVER	OWNER
GR-504-BD	2	QUEEN XL FLAT SHEET	OWNER
GR-505-BD	2	QUEEN SNOWSTORM BLANKET	OWNER
GR-506-BD	2	QUEEN BEDSKIRT FABRICATION	OWNER
GR-514-BD	4	STANDARD PILLOWCASE	OWNER
GR-521-WT	1	WINDOW BLINDS	OWNER
GR-600-LT	1	TABLE LAMP	OWNER
GR-701A-MR	1	DECORATIVE FRAMED MIRROR	OWNER
GR-703-ART	1	WALL ARTWORK	OWNER
REF-1	1	REFRIGERATOR	GC
CT-1	1	STOVE TOP	GC

NOTE:
PROVIDE WOOD BLOCKING FOR ALL WALL MOUNTED ITEMS SHOWN, INCLUDING ITEMS FURNISHED AND INSTALLED BY OWNER.

SYMBOL LEGEND	
	RECEPTACLE
	PHONE/DATA OUTLET
	SWITCH
TV	TELEVISION
	SPECIAL OUTLET
T	LIGHT/TIME DELAY SWITCH

REF ELECTRICAL FOR SWITCH AND RECEPTACLE INFORMATION

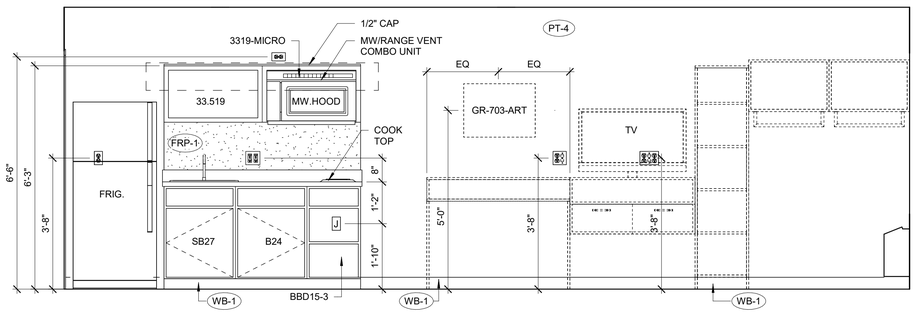


7 DOUBLE QS - ENTRY WALL
1/2" = 1'-0"

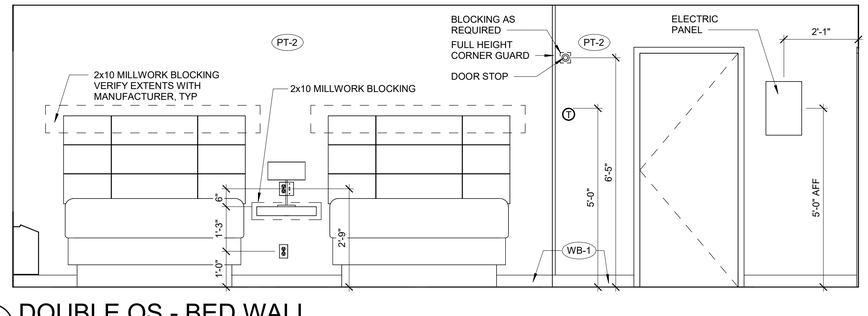
NOTE:
DRILL 1" HOLE IN TOP OF CABINET, CENTERED BEHIND THE MICROWAVE, FOR OUTLET ACCESS. TIE UP EXCESS CORD.

SILICONE CAULKING TO MATCH COLOR OF COUNTERTOP

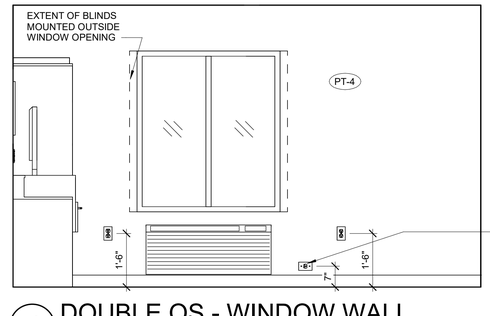
OBTAIN CASE GOOD LINE DRAWINGS, COORDINATE AND FIELD VERIFY 2x10 BLOCKING AND ELECTRICAL DEVICE LOCATIONS



6 DOUBLE QS - TV WALL
1/2" = 1'-0"

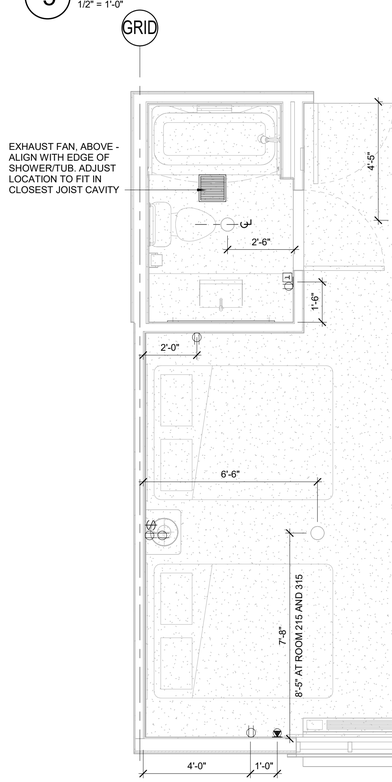


5 DOUBLE QS - BED WALL
1/2" = 1'-0"

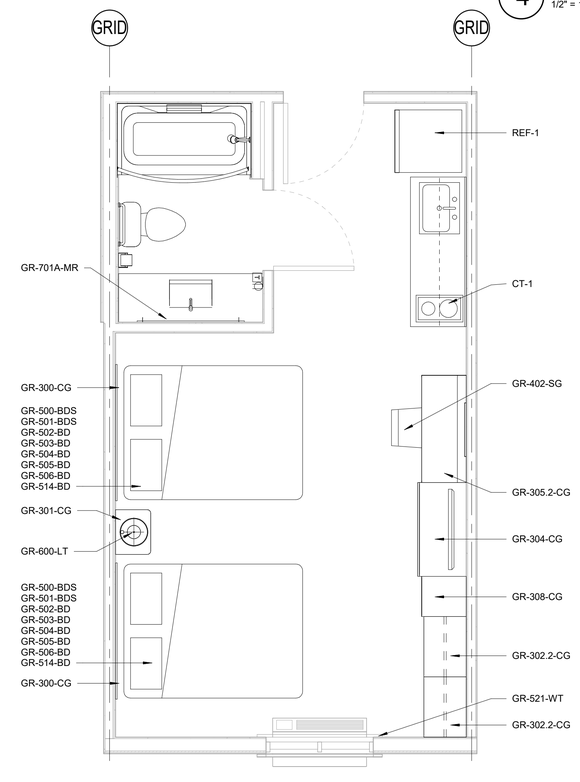


PTAC RECEPTACLE TO BE LOCATED TO THE RIGHT AND AS CLOSE TO PTAC UNIT AS POSSIBLE AND HORIZONTAL. POWER CORD TO BE ORIENTED LEADING TO PTAC. EXCESS CORD TO BE STORE IN PTAC COMPARTMENT.

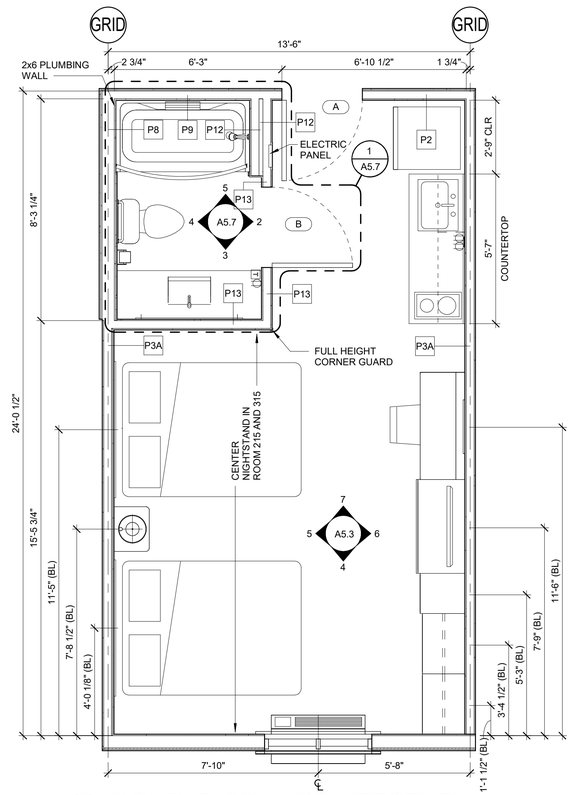
4 DOUBLE QS - WINDOW WALL
1/2" = 1'-0"



3 DOUBLE QS - ELECTRICAL
3/8" = 1'-0"



2 DOUBLE QS - FURNITURE
3/8" = 1'-0"



1 DOUBLE QS - ARCHITECTURAL
3/8" = 1'-0"

Architect of Record:
BRR Architecture, Inc.

8131 METCALF AVE, SUITE 300
OVERLAND PARK, KS 66204

www.brrarch.com

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Consultants

Issues & Revisions

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WoodSpring Suites

Project Address

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WOODSPRING SUITES

Drawn By: JP
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Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB ARCHITECT
LICENSE NO. 2022000409

BRR ARCHITECTURE, INC.
ARCHITECTURAL CORPORATION
MISSOURI LICENSE NO. ARC 000160

Sheet Title

GUESTROOM - DOUBLE QUEEN SUITE

Sheet No.

A5.3

BRR Original printed on recycled paper

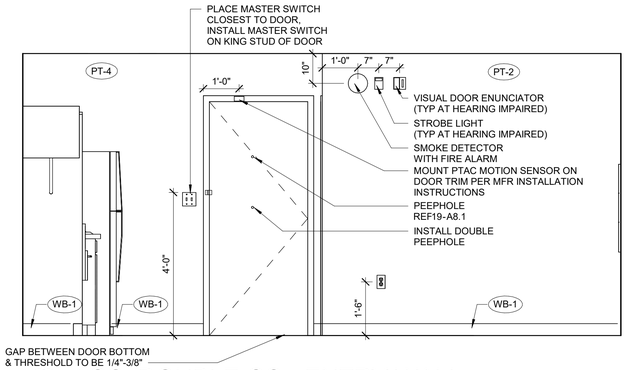
8/16/2023 12:50:33 PM

ACC DBL. QUEEN SUITE FIXTURE & EQUIPMENT LEGEND			
	QUANTITY	DESCRIPTION	PROVIDED BY:
GR-300-CG	2	QUEEN HEADBOARD - PLAM	OWNER
GR-301-CG	1	NIGHTSTAND - 20"	OWNER
GR-302.2-CG	2	CLOSET - 24"	OWNER
GR-304-CG	1	DRESSER	OWNER
GR-305.2-CG	1	DESK - 4'-0"	OWNER
GR-308-CG	1	CUBBY	OWNER
GR-402-SG	2	DESK CHAIR	OWNER
GR-500-BDS	2	QUEEN MATTRESS	OWNER
GR-501-BDS	2	QUEEN BED FRAME	OWNER
GR-502-BD	2	QUEEN MATTRESS PAD	OWNER
GR-503-BD	2	QUEEN CUMULUS TOP COVER	OWNER
GR-504-BD	2	QUEEN XL FLAT SHEET	OWNER
GR-505-BD	2	QUEEN SNOWSTORM BLANKET	OWNER
GR-506-BD	2	QUEEN BEDSKIRT FABRICATION	OWNER
GR-514-BD	4	STANDARD PILLOWCASE	OWNER
GR-521-WT	1	WINDOW BLINDS	OWNER
GR-600-LT	1	TABLE LAMP	OWNER
GR-700A-MR	1	DECORATIVE FRAMED MIRROR ADA	OWNER
GR-703-ART	1	WALL ARTWORK	OWNER
REF-2	1	REFRIGERATOR (ADA)	GC
CT-1	1	STOVE TOP	GC

NOTE:
PROVIDE WOOD BLOCKING FOR ALL WALL MOUNTED ITEMS SHOWN, INCLUDING ITEMS FURNISHED AND INSTALLED BY OWNER.

SYMBOL LEGEND	
	RECEPTACLE
	PHONE/DATA OUTLET
	SWITCH
TV	TELEVISION
	SPECIAL OUTLET
T	LIGHT/TIME DELAY SWITCH

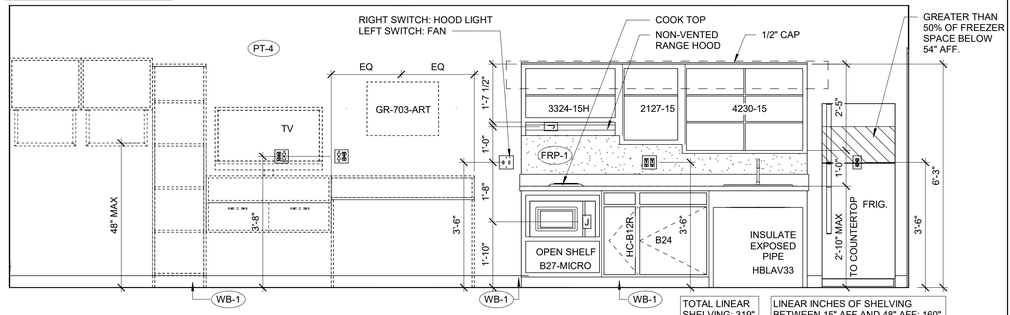
REF ELECTRICAL FOR SWITCH AND RECEPTACLE INFORMATION



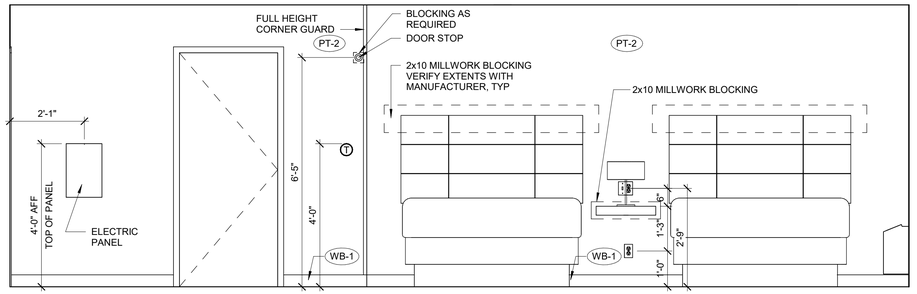
7 ACC. DOUBLE QS - ENTRY WALL
1/2" = 1'-0"

OBTAIN CASE GOOD LINE DRAWINGS, COORDINATE AND FIELD VERIFY 2x10 BLOCKING AND ELECTRICAL DEVICE LOCATIONS

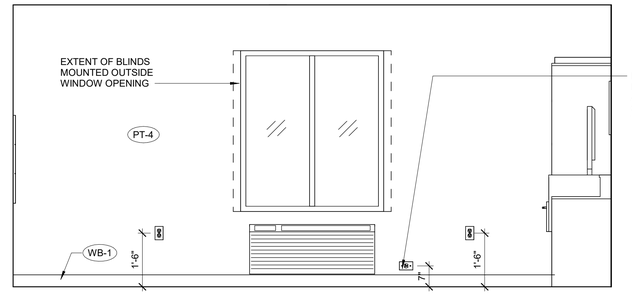
SILICONE CAULKING TO MATCH COLOR OF COUNTERTOP



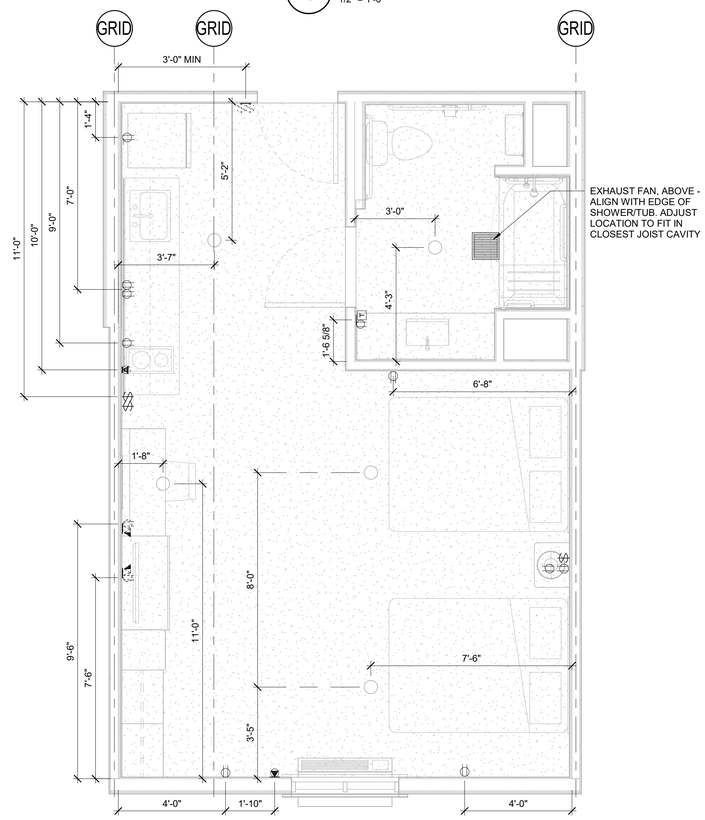
6 ACC. DOUBLE QS - TV WALL
1/2" = 1'-0"



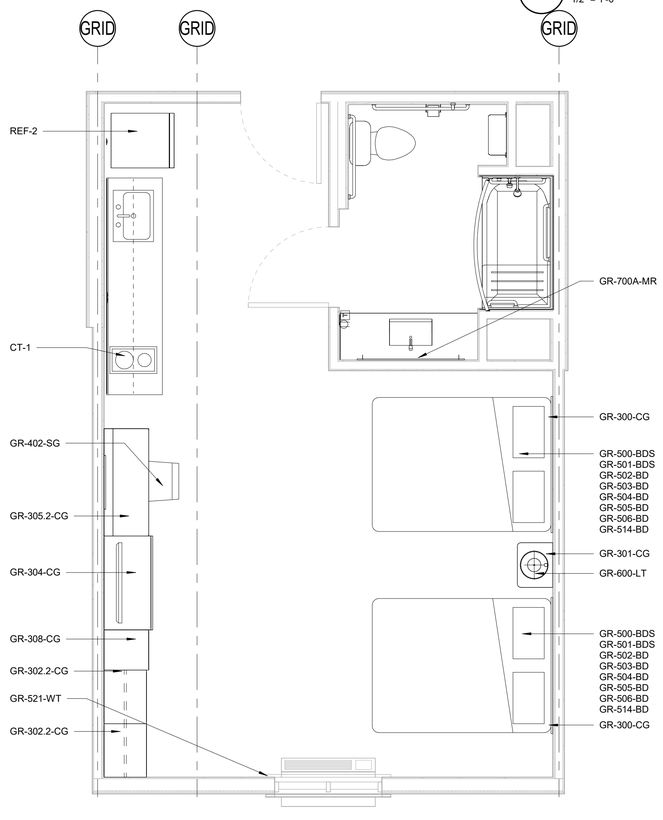
5 ACC. DOUBLE QS - BED WALL
1/2" = 1'-0"



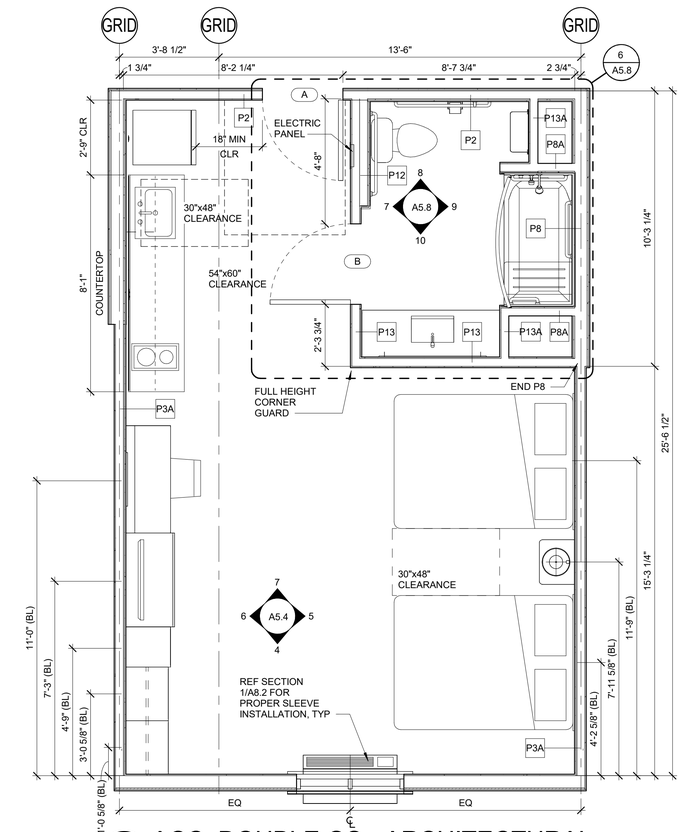
4 ACC. DOUBLE QS - WINDOW WALL
1/2" = 1'-0"



3 ACC. DOUBLE QS - ELECTRICAL
3/8" = 1'-0"



2 ACC. DOUBLE QS - FURNITURE
3/8" = 1'-0"



1 ACC. DOUBLE QS - ARCHITECTURAL
3/8" = 1'-0"

8/16/2023 12:50:35 PM

brr

Architect of Record:
BRR Architecture, Inc.

8131 METCALF AVE,
SUITE 300
OVERLAND PARK, KS 66204

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ARCHITECTURAL CORPORATION
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Sheet Title

GUESTROOM - ACCESSIBLE DOUBLE QUEEN SUITE

Sheet No.

A5.4

BRR Original printed on recycled paper

DELUXE QUEEN SUITE FIXTURE & EQUIPMENT LEGEND			
	QUANTITY	DESCRIPTION	PROVIDED BY:
GR-300-CG	1	QUEEN HEADBOARD - PLAM	OWNER
GR-301-CG	2	NIGHTSTAND - 16"	OWNER
GR-302.2-CG	1	CLOSET - 4'-6"	OWNER
GR-304-CG	1	DRESSER	OWNER
GR-305.2-CG	1	DESK - 4'-0"	OWNER
GR-308-CG	1	CUBBY	OWNER
GR-401-SG	2	OTTOMAN	OWNER
GR-402-SG	2	DESK CHAIR	OWNER
GR-403-SG	1	SOFA-FULL SLEEPER	OWNER
GR-500-BDS	1	QUEEN MATTRESS	OWNER
GR-501-BDS	1	QUEEN BED FRAME	OWNER
GR-502-BD	1	QUEEN MATTRESS PAD	OWNER
GR-503-BD	1	QUEEN CUMULUS TOP COVER	OWNER
GR-504-BD	1	QUEEN XL FLAT SHEET	OWNER
GR-505-BD	1	QUEEN SNOWSTORM BLANKET	OWNER
GR-506-BD	1	QUEEN BEDSKIRT FABRICATION	OWNER
GR-514-BD	2	STANDARD PILLOWCASE	OWNER
GR-521-WT	1	WINDOW BLINDS	OWNER
GR-600-LT	2	TABLE LAMP	OWNER
GR-701A-MR	1	DECORATIVE FRAMED MIRROR	OWNER
GR-703-ART	1	WALL ARTWORK	OWNER
REF-1	1	REFRIGERATOR	GC
CT-1	1	STOVE TOP	GC

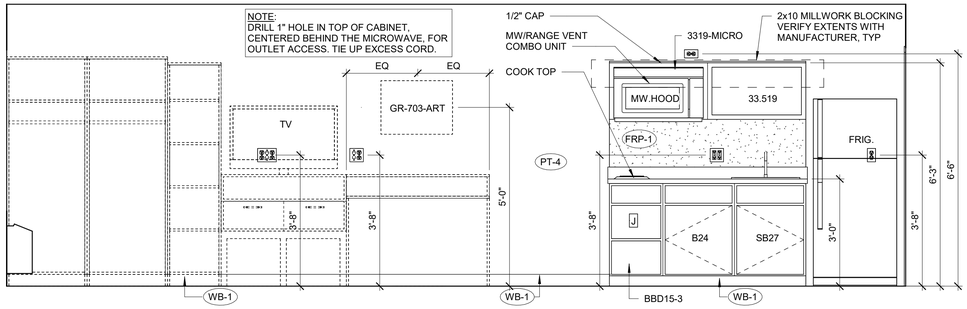
NOTE:
PROVIDE WOOD BLOCKING FOR ALL WALL MOUNTED ITEMS SHOWN, INCLUDING ITEMS FURNISHED AND INSTALLED BY OWNER.

SYMBOL LEGEND	
	RECEPTACLE
	PHONE/DATA OUTLET
	SWITCH
TV	TELEVISION
	SPECIAL OUTLET
T	LIGHT/TIME DELAY SWITCH

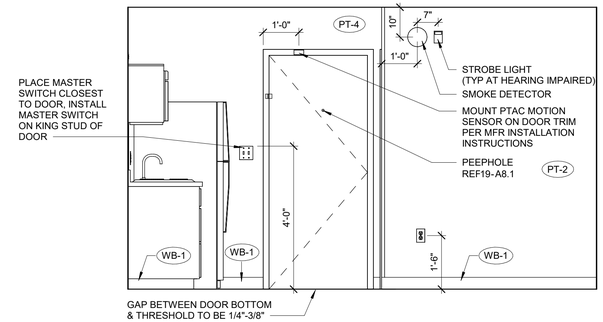
REF ELECTRICAL FOR SWITCH AND RECEPTACLE INFORMATION

OBTAIN CASE GOOD LINE DRAWINGS, COORDINATE AND FIELD VERIFY 2x10 BLOCKING AND ELECTRICAL DEVICE LOCATIONS

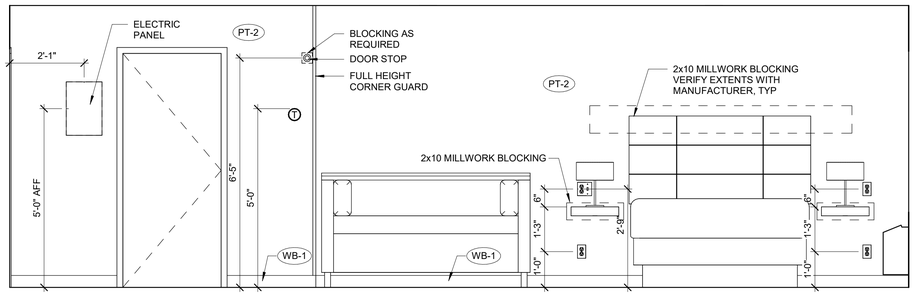
SILICONE CAULKING TO MATCH COLOR OF COUNTERTOP



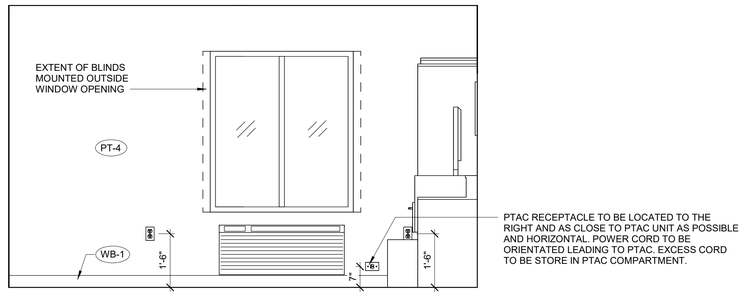
7 DELUXE QS - TV WALL
1/2" = 1'-0"



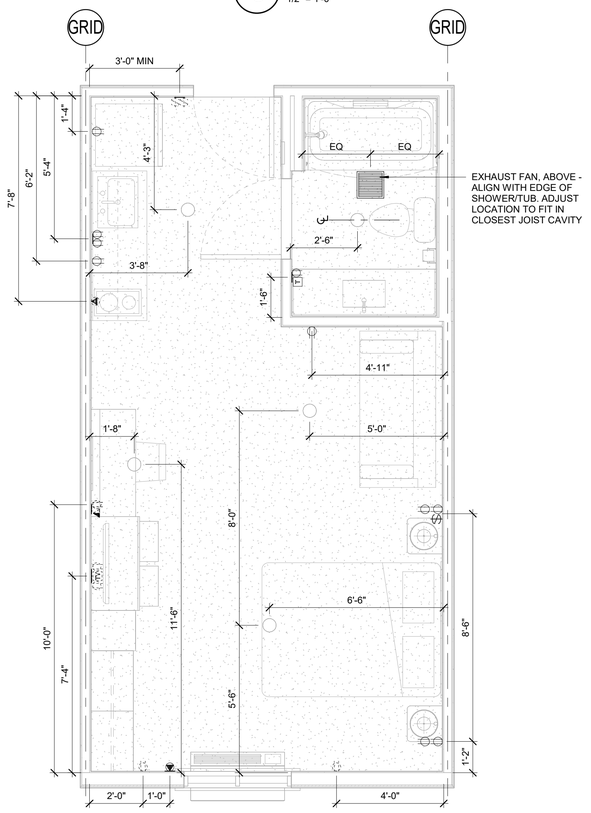
6 DELUXE QS - ENTRY WALL
1/2" = 1'-0"



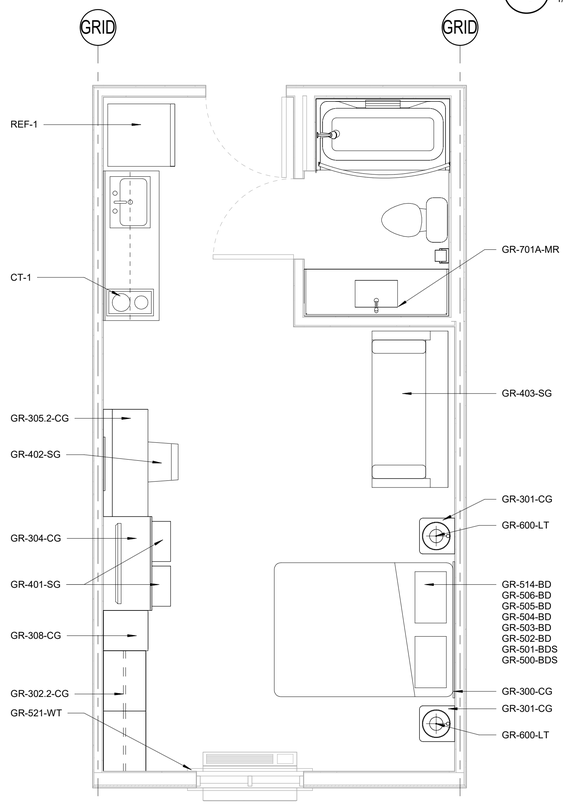
5 DELUXE QS - BED WALL
1/2" = 1'-0"



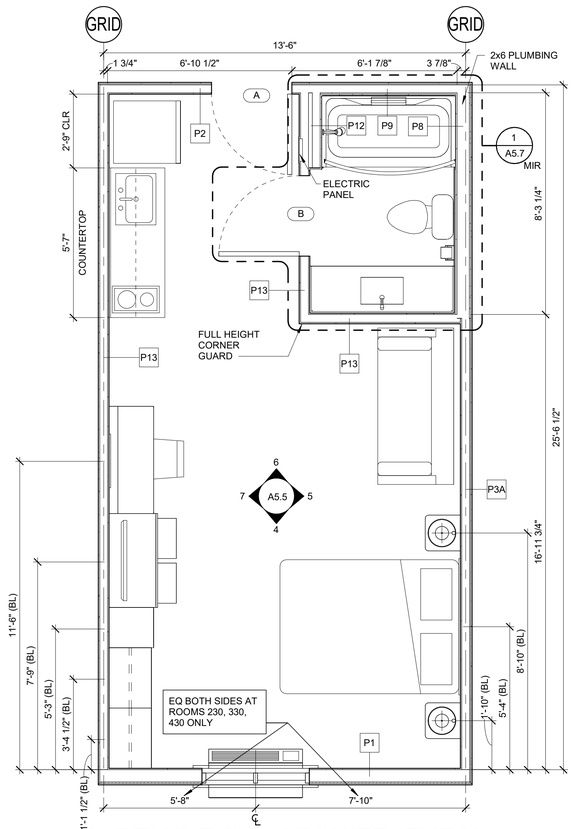
4 DELUXE QS - WINDOW WALL
1/2" = 1'-0"



3 DELUXE QS - ELECTRICAL
3/8" = 1'-0"



2 DELUXE QS - FURNITURE
3/8" = 1'-0"



1 DELUXE QS - ARCHITECTURAL
3/8" = 1'-0"

8/16/2023 12:50:37 PM

brr

Architect of Record:
BRR Architecture, Inc.

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Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

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WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By: JP
Checked By: JL
Document Date: 08/16/23
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_B08
Project No. 31000541
Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB
ARCHITECT
LICENSE NO. 2022000409

BRR ARCHITECTURE, INC
ARCHITECTURAL CORPORATION
MISSOURI LICENSE NO. ARC 000160

Sheet Title

GUESTROOM - DELUXE QUEEN SUITE

Sheet No.

A5.5

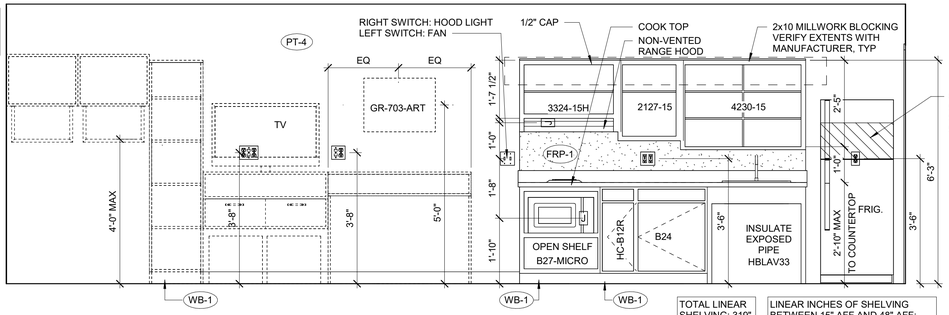
ACC DELUXE QUEEN SUITE FIXTURE & EQUIPMENT LEGEND			
	QUANTITY	DESCRIPTION	PROVIDED BY:
GR-300-CG	1	QUEEN HEADBOARD - PLAM	OWNER
GR-301-CG	1	NIGHTSTAND - 20"	OWNER
GR-302.2-CG	2	CLOSET - 24"	OWNER
GR-304-CG	1	DRESSER	OWNER
GR-305.2-CG	1	DESK - 4'-0"	OWNER
GR-308-CG	1	CUBBY	OWNER
GR-401-SG	2	OTTOMAN	OWNER
GR-402-SG	2	DESK CHAIR	OWNER
GR-403-SG	1	SOFA-FULL SLEEPER	OWNER
GR-501-BDS	1	QUEEN BED FRAME	OWNER
GR-500-BDS	1	QUEEN MATTRESS	OWNER
GR-502-BD	1	QUEEN MATTRESS PAD	OWNER
GR-503-BD	1	QUEEN CUMULUS TOP COVER	OWNER
GR-504-BD	1	QUEEN XL FIAT SHEET	OWNER
GR-505-BD	1	QUEEN SNOWSTORM BLANKET	OWNER
GR-506-BD	1	QUEEN BEDSKIRT FABRICATION	OWNER
GR-514-BD	2	STANDARD PILLOWCASE	OWNER
GR-521-WT	1	WINDOW BLINDS	OWNER
GR-600-LT	1	TABLE LAMP	OWNER
GR-700A-MR	1	DECORATIVE FRAMED MIRROR ADA	OWNER
GR-703-ART	1	WALL ARTWORK	OWNER
REF-2	1	REFRIGERATOR (ADA)	GC
CT-1	1	STOVE TOP	GC

NOTE:
PROVIDE WOOD BLOCKING FOR ALL WALL MOUNTED ITEMS SHOWN, INCLUDING ITEMS FURNISHED AND INSTALLED BY OWNER.

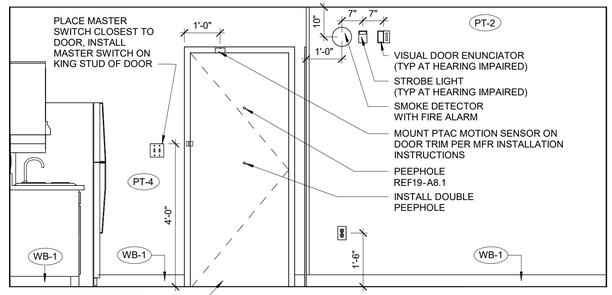
SYMBOL LEGEND	
	RECEPTACLE
	PHONE/DATA OUTLET
	SWITCH
TV	TELEVISION
	SPECIAL OUTLET
T	LIGHT/TIME DELAY SWITCH
REF ELECTRICAL FOR SWITCH AND RECEPTACLE INFORMATION	

OBTAIN CASE GOOD LINE DRAWINGS, COORDINATE AND FIELD VERIFY 2x10 BLOCKING AND ELECTRICAL DEVICE LOCATIONS

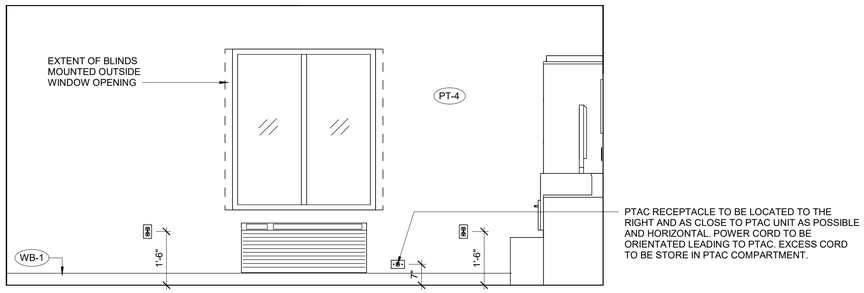
SILICONE CAULKING TO MATCH COLOR OF COUNTERTOP



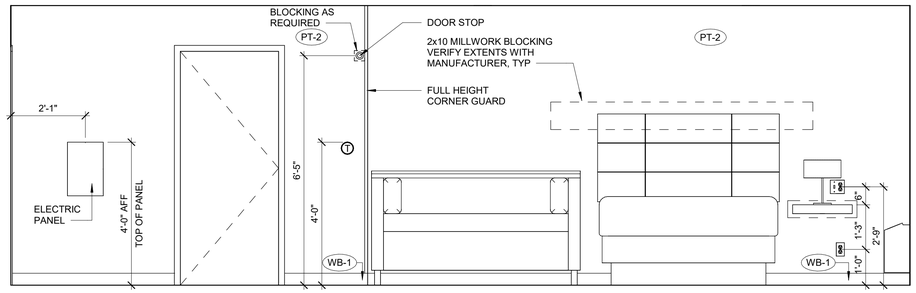
7 ACC DELUXE QS - TV WALL
1/2" = 1'-0"



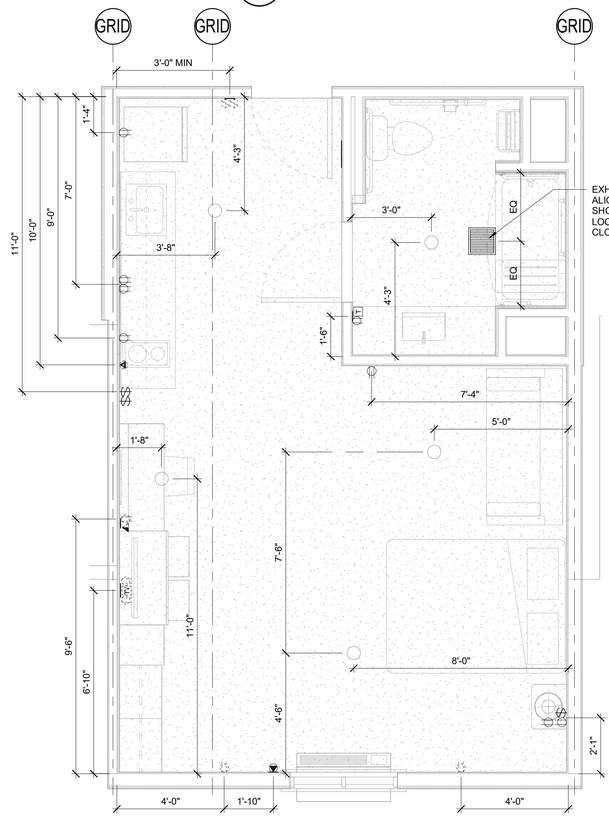
6 ACC DELUXE QS - ENTRY WALL
1/2" = 1'-0"



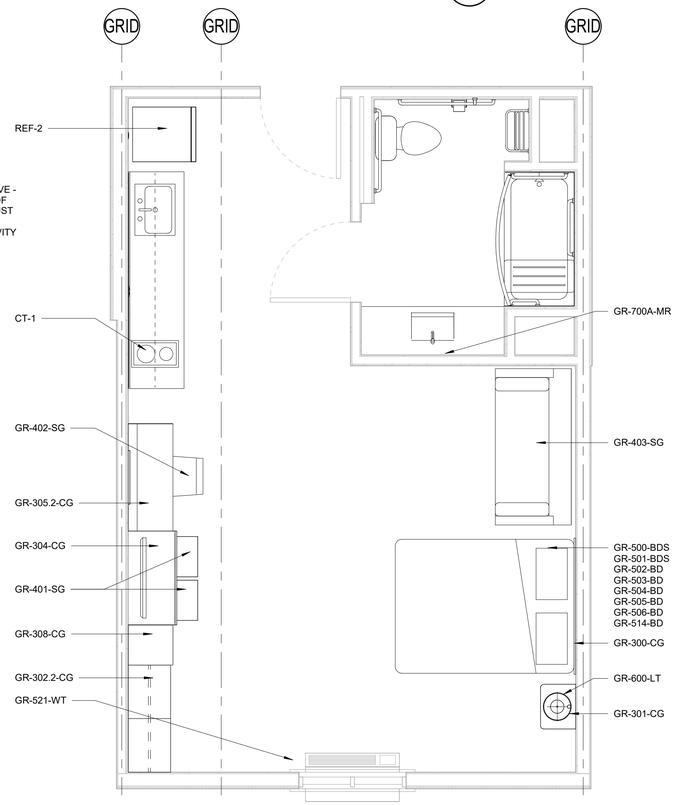
5 ACC DELUXE QS - WINDOW WALL
1/2" = 1'-0"



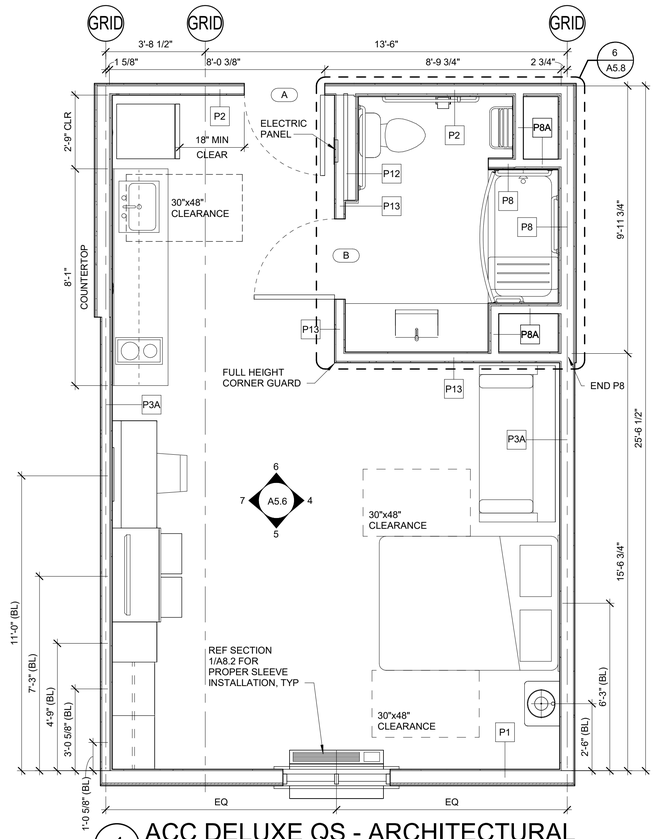
4 ACC DELUXE QS - BED WALL
1/2" = 1'-0"



3 ACC DELUXE QS - ELECTRICAL
3/8" = 1'-0"



2 ACC DELUXE QS - FURNITURE
3/8" = 1'-0"



1 ACC DELUXE QS - ARCHITECTURAL
3/8" = 1'-0"

8/16/2023 12:50:39 PM

brr

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Sheet Title

GUESTROOM - ACCESSIBLE DELUXE QUEEN SUITE

Sheet No.

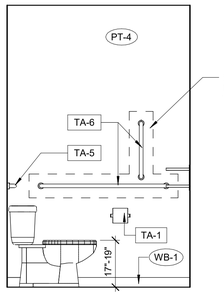
A5.6

BRR Original printed on recycled paper

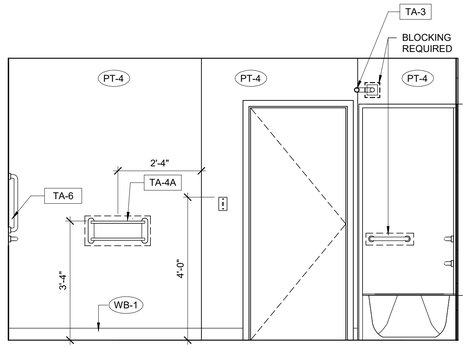
GENERAL NOTES

1. CAULKING TO MATCH COLOR OF SOLID SURFACE COUNTERTOP
2. 1/8" MAX GAP AT EACH SIDE OF VANITY
3. LENGTH OF COUNTERTOPS AND BACKSPLASHES TO BE LARGER THAN OPENING, CUT TO LENGTH IN THE FIELD
4. GC TO VERIFY CLEARANCES NOTED PRIOR TO INSTALLING FIXTURES

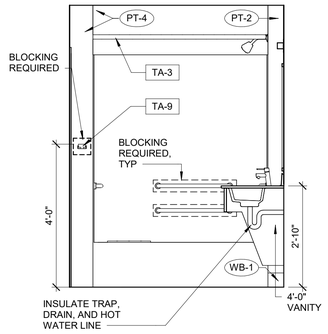
NOTE:
DIMENSION SHOWN ON PLAN VIEW IS TO FACE OF STUD UNO.
DIMENSION SHOWN ON ELEVATION VIEW IS TO FACE OF FINISH.



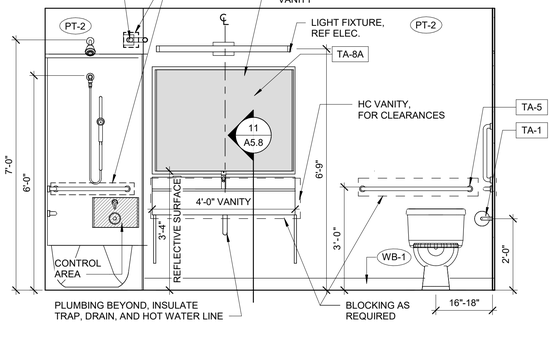
10 ACCESSIBLE BATHROOM ELEVATION
1/2" = 1'-0"



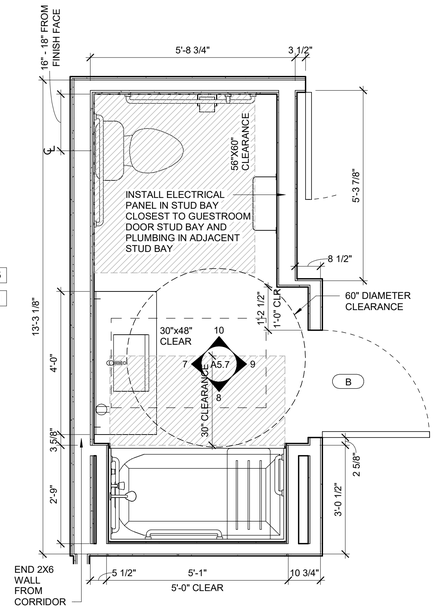
9 ACCESSIBLE BATHROOM ELEVATION
1/2" = 1'-0"



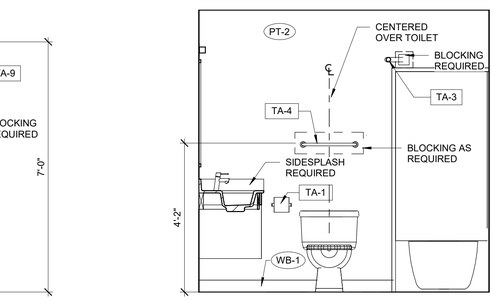
8 ACCESSIBLE BATHROOM ELEVATION
1/2" = 1'-0"



7 ACCESSIBLE BATHROOM ELEVATION
1/2" = 1'-0"

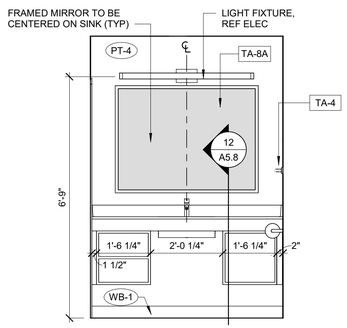


6 ACCESSIBLE BATHROOM
1/2" = 1'-0"

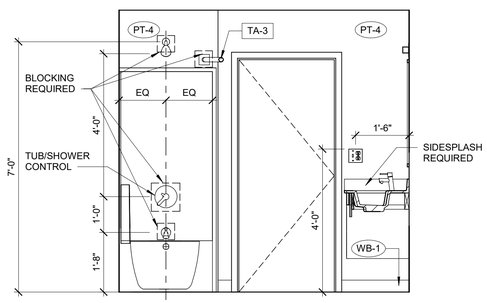


5 STANDARD BATHROOM ELEVATION
1/2" = 1'-0"

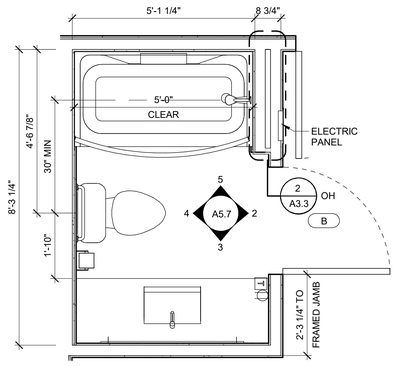
4 STANDARD BATHROOM ELEVATION
1/2" = 1'-0"



3 STANDARD BATHROOM ELEVATION
1/2" = 1'-0"



2 STANDARD BATHROOM ELEVATION
1/2" = 1'-0"



1 STANDARD BATHROOM TUB/SHOWER
1/2" = 1'-0"

8/16/2023 12:50:42 PM

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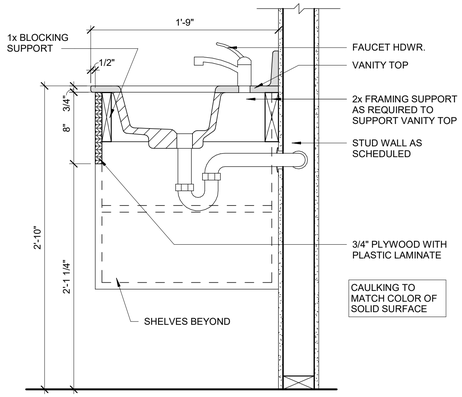
Sheet Title

GUESTROOM BATHROOMS

Sheet No.

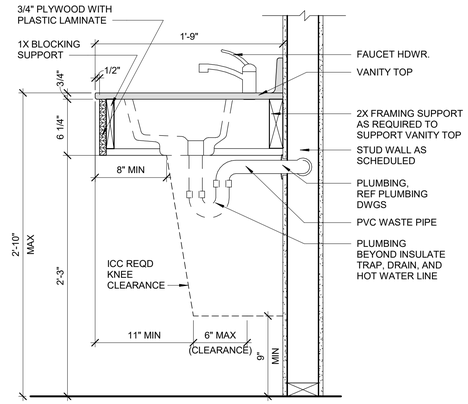
A5.7

BRR Original printed on recycled paper



12 TYP BATH SINK SECTION

1 1/2" = 1'-0"



11 ACC BATH SINK SECT

1 1/2" = 1'-0"

GENERAL NOTES

1. CAULKING TO MATCH COLOR OF SOLID SURFACE COUNTERTOP
2. 1/8" MAX GAP AT EACH SIDE OF VANITY
3. LENGTH OF COUNTERTOPS AND BACKSPLASHES TO BE LARGER THAN OPENING, CUT TO LENGTH IN THE FIELD
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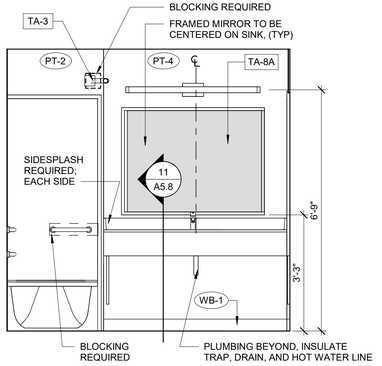
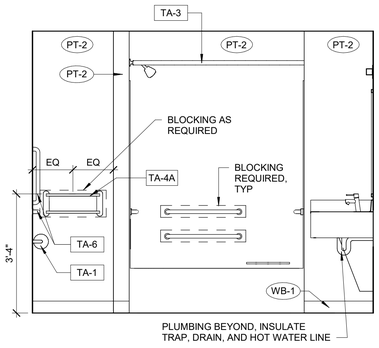


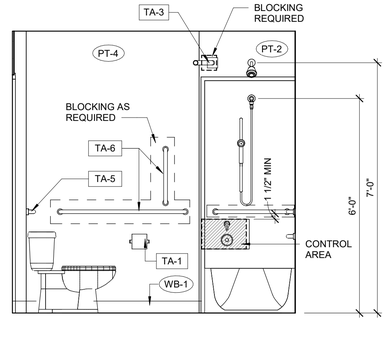
10 ACC. BATH ELEVATION

1/2" = 1'-0"



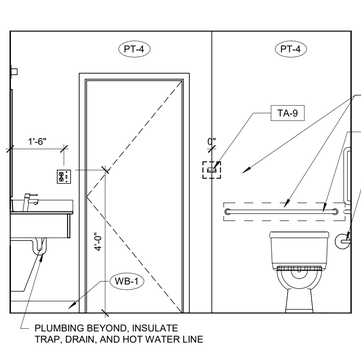
9 ACC. BATH ELEVATION

1/2" = 1'-0"



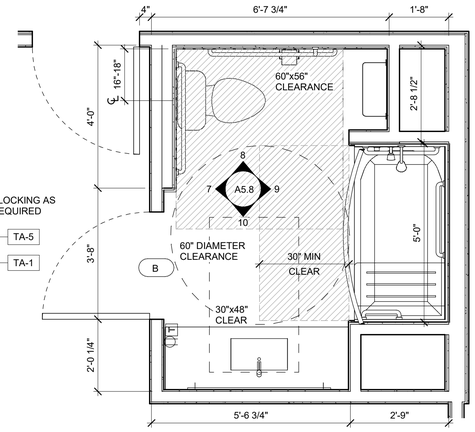
8 ACC. BATH ELEVATION

1/2" = 1'-0"



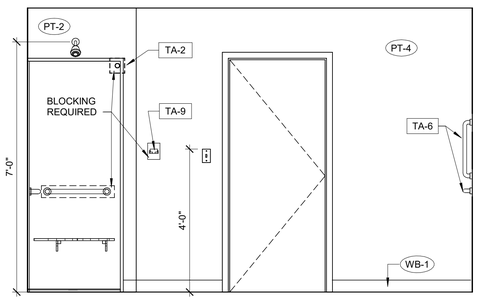
7 ACC. BATH ELEVATION

1/2" = 1'-0"



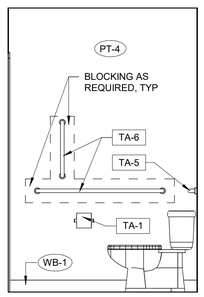
6 ACC. BATHROOM W/TUB

1/2" = 1'-0"



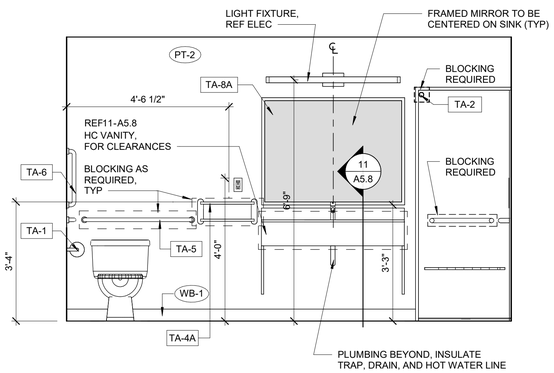
5 ACC. BATH ELEVATION

1/2" = 1'-0"



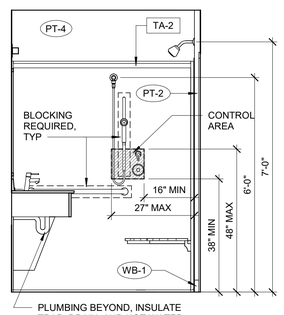
4 ACC. BATH ELEVATION

1/2" = 1'-0"



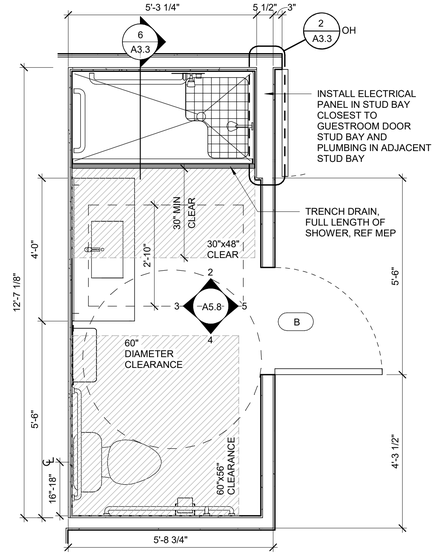
3 ACC. BATH ELEVATION

1/2" = 1'-0"



2 ACC. BATH ELEVATION

1/2" = 1'-0"



1 ACC. BATHROOM ROLL-IN SHOWER

1/2" = 1'-0"

8/16/2023 12:50:46 PM

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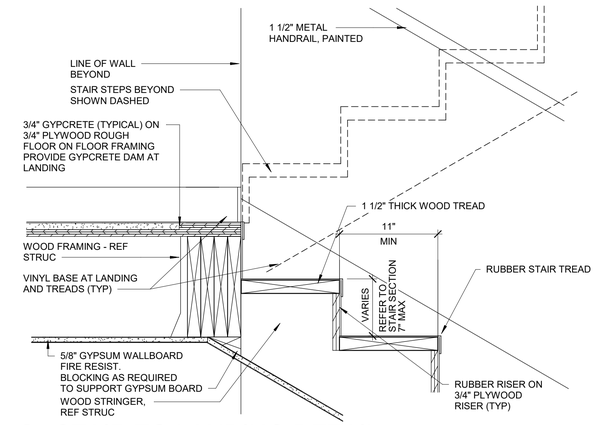
Sheet Title

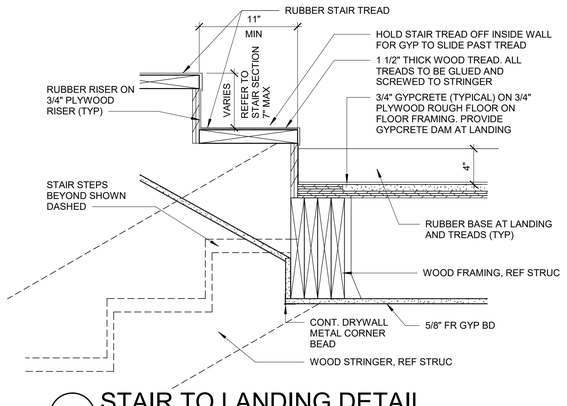
GUESTROOM BATHROOMS

Sheet No.

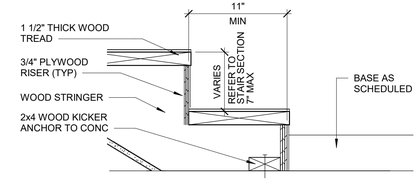
A5.8



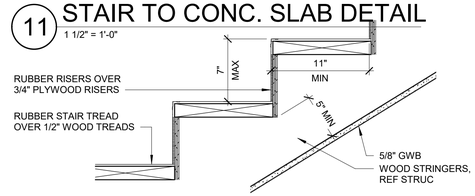
14 STAIR TO LANDING DETAIL
1 1/2" = 1'-0"



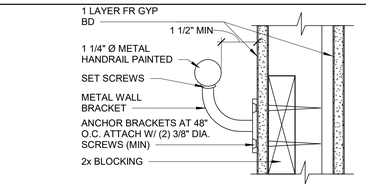
13 STAIR TO LANDING DETAIL
1 1/2" = 1'-0"



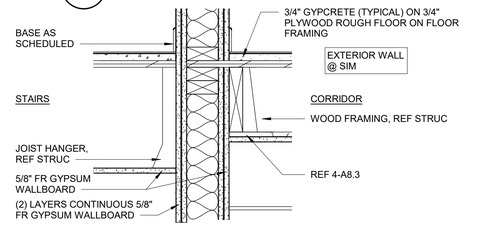
11 STAIR TO CONC. SLAB DETAIL
1 1/2" = 1'-0"



9 TREAD/RISER DETAIL
1 1/2" = 1'-0"

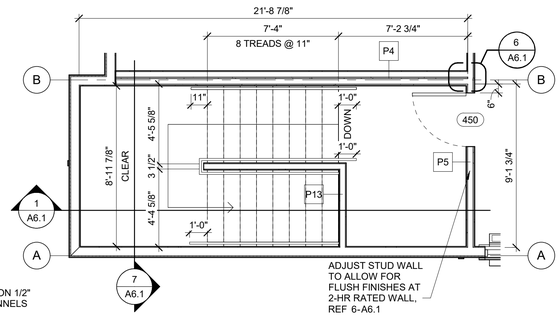


10 TYP. WALL BRACKET
3" = 1'-0"

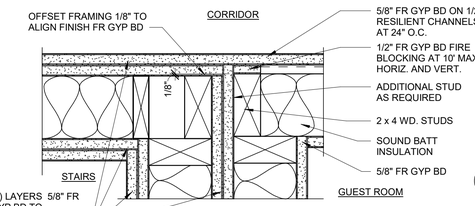


12 STAIR TO CORRIDOR WALL DETAIL
1 1/2" = 1'-0"

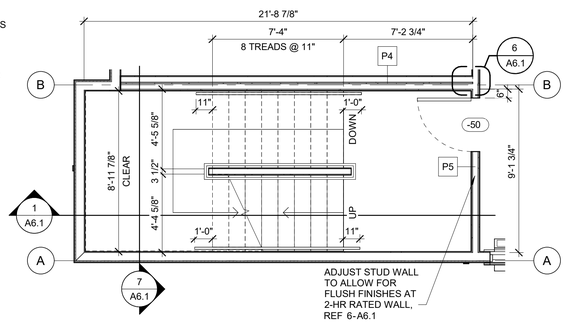
8 LANDING@ PARTY WALL
1 1/2" = 1'-0"



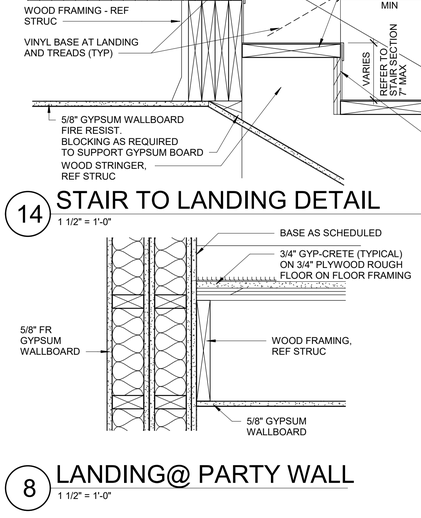
5 STAIR - 4TH FLOOR
1/4" = 1'-0"



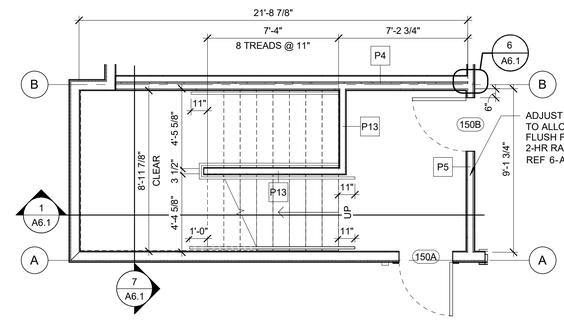
6 TYP. STAIR WALL OFFSET
3" = 1'-0"



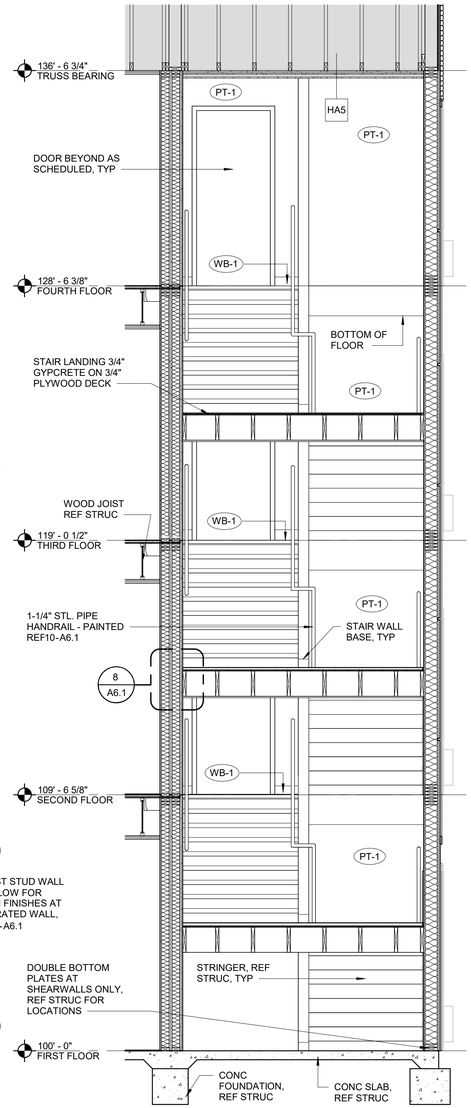
4 STAIR- 2ND & 3RD FLOOR
1/4" = 1'-0"



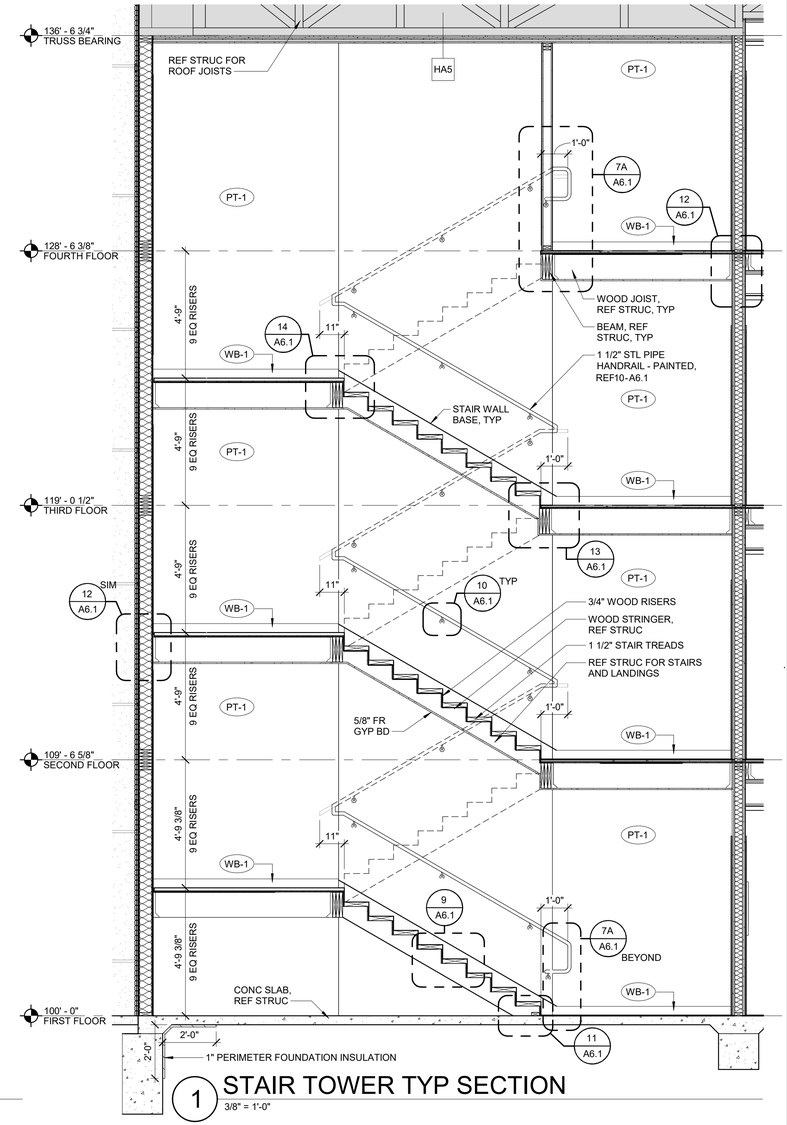
7A STAIR HANDRAIL
1 1/2" = 1'-0"



3 STAIR - 1ST FLOOR
1/4" = 1'-0"



7 STAIR - CROSS SECTION
3/8" = 1'-0"



1 STAIR TOWER TYP SECTION
3/8" = 1'-0"

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brr

Architect of Record:
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Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By: JP
Checked By: JL
Document Date: 08/16/23
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_B08

Project No.

31000541

Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB
ARCHITECT
LICENSE NO. 2022000409

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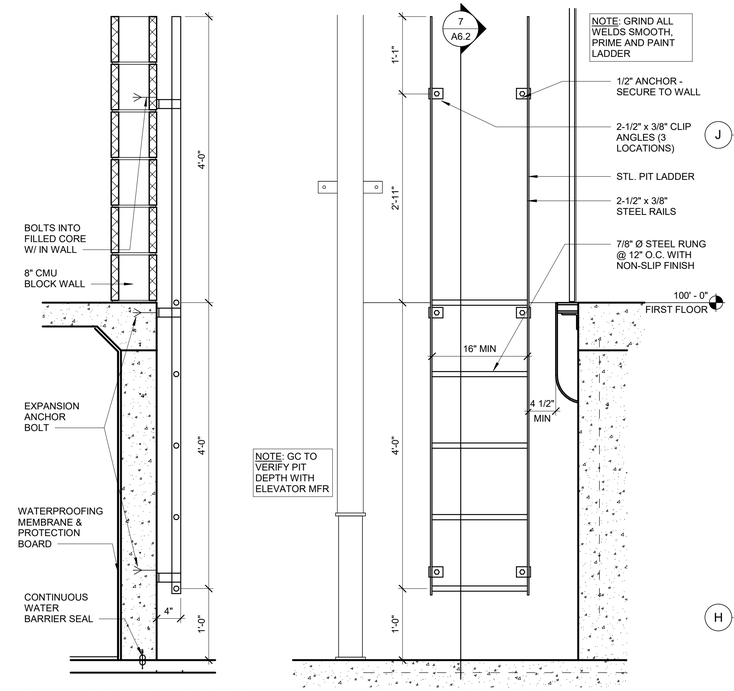
Sheet Title

STAIR PLANS, SECTIONS & DETAILS

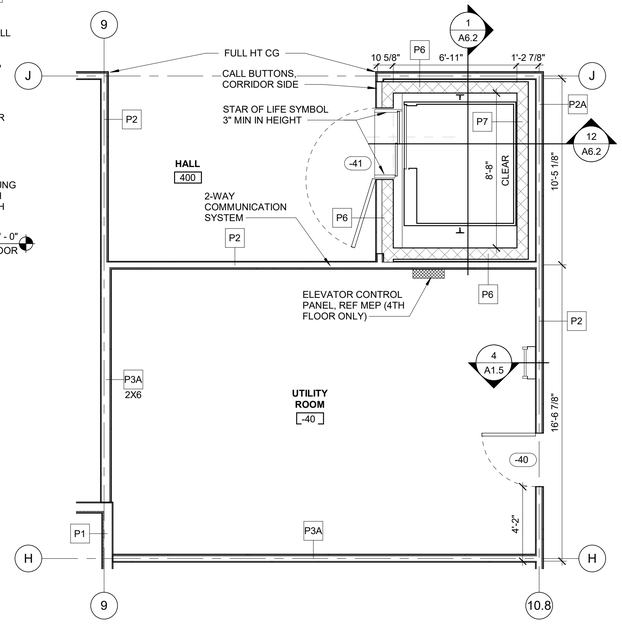
Sheet No.

A6.1

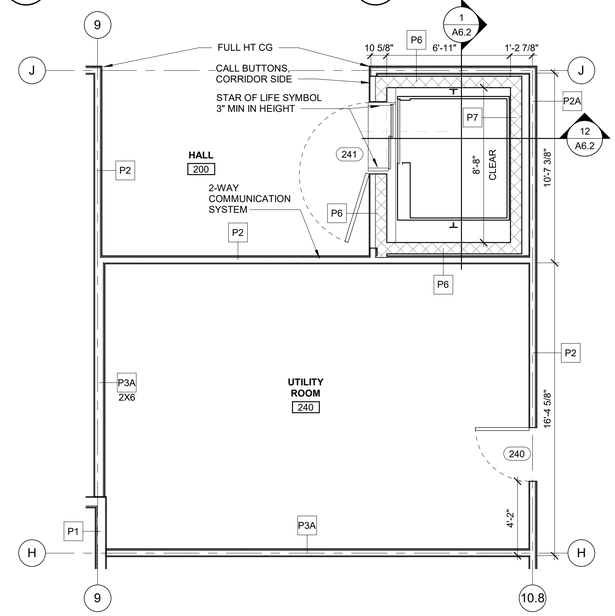


7 LADDER SECTION
1" = 1'-0"

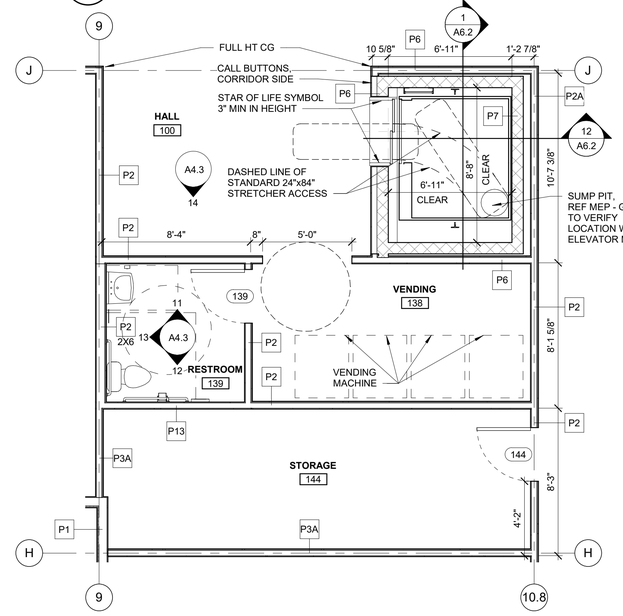
6 LADDER ELEVATION
1" = 1'-0"



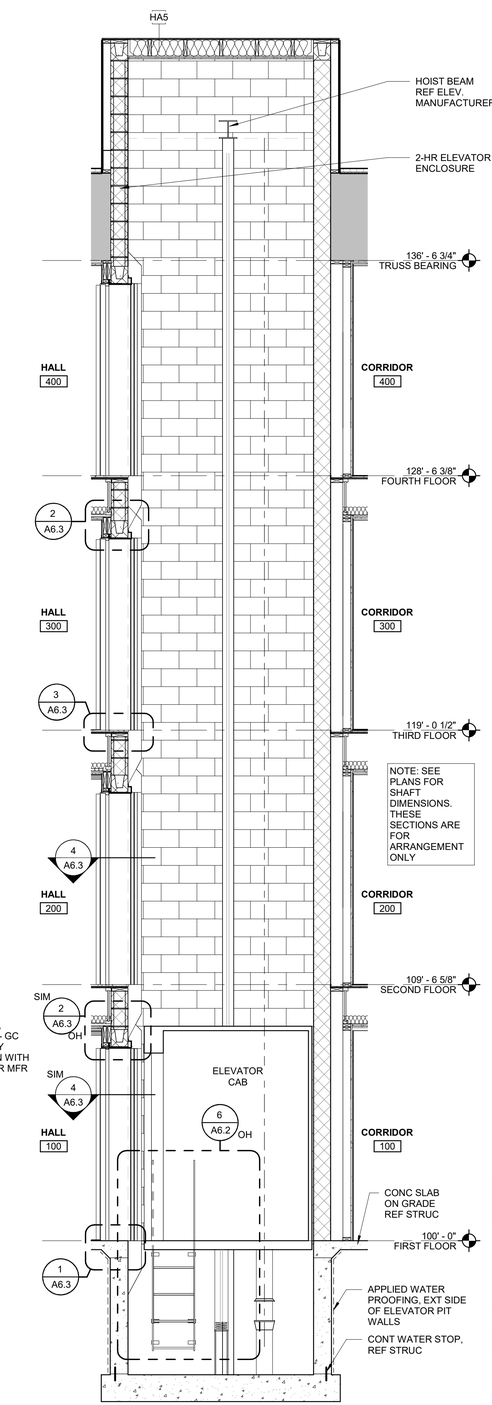
2 3RD & 4TH FLOOR ELEVATOR PLAN
1/4" = 1'-0"



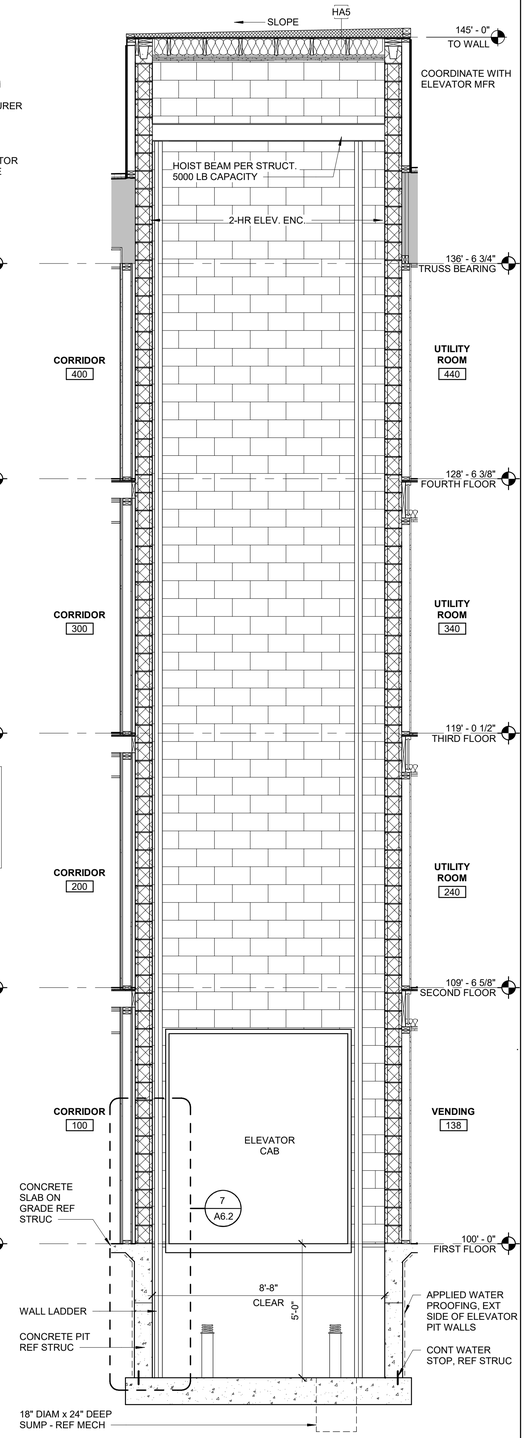
4 2ND FLOOR ELEVATOR PLAN
1/4" = 1'-0"



3 1ST FLOOR ELEVATOR PLAN
1/4" = 1'-0"



12 TYP ELEVATOR TOWER SECTION
3/8" = 1'-0"



1 TYP ELEVATOR TOWER SECTION
3/8" = 1'-0"

8/16/2023 12:50:51 PM

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ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB ARCHITECT LICENSE NO. 2022000409

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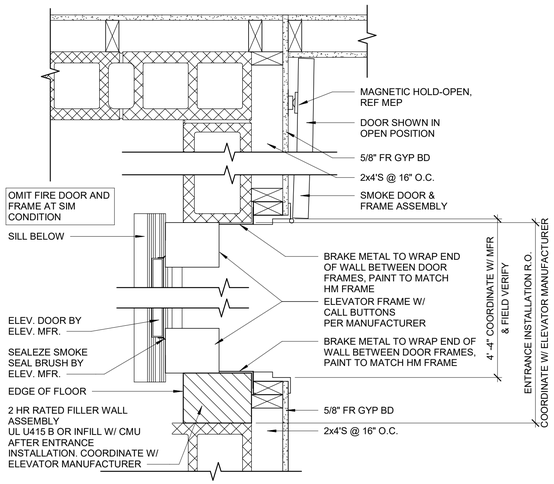
Sheet Title

ELEVATOR PLANS & SECTIONS

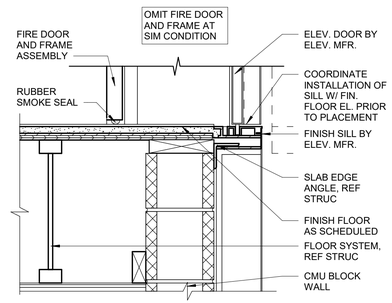
Sheet No.

A6.2

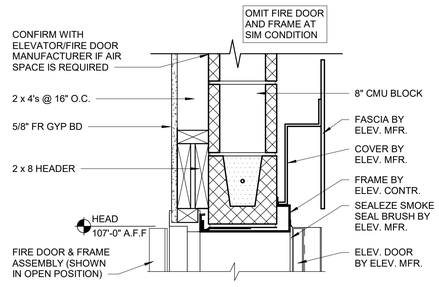
BRR Original printed on recycled paper



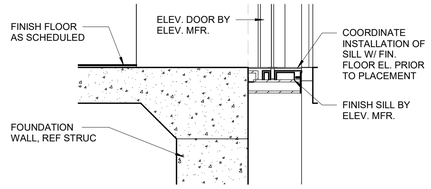
4 ELEVATOR OPENING JAMB
1 1/2" = 1'-0"



3 ELEVATOR OPENING SILL
1 1/2" = 1'-0"



2 ELEVATOR OPENING HEAD
1 1/2" = 1'-0"



1 ELEV SILL AT FIRST FLOOR
1 1/2" = 1'-0"

8/16/2023 12:50:52 PM

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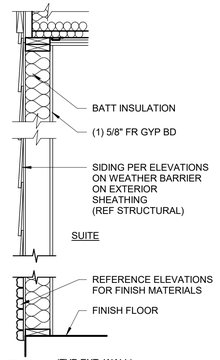
Sheet Title

ELEVATOR DETAILS

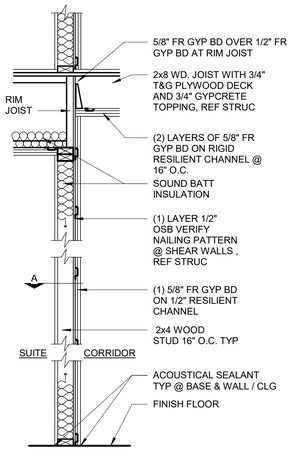
Sheet No.

A6.3



P1 (TYP EXT. WALL)
2x6 WOOD STUD @ 16" O.C.
UL DESIGN #U356

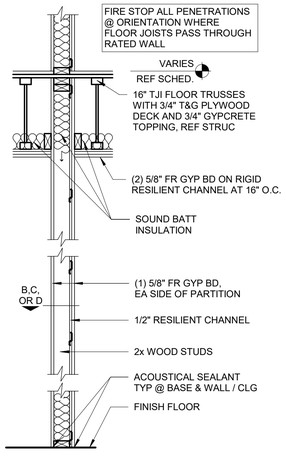
SEE SHEET A10.5



P2 (TYP CORRIDOR WALL)
UL DESIGN #U327

SEE SHEET A10.3

P2A GYPSUM BOARD ON CORRIDOR SIDE ONLY

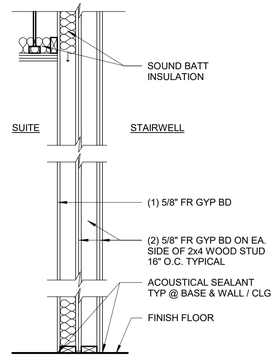


P3 (TYP INTERIOR PARTITION WALL)
OMIT RESILIENT CHANNEL AND INSULATION
SEE SECTION DETAIL - B
UL DESIGN #U305
STC 53 MIN : TEST BASED ON NGC-2009045

P3A (TYP SUITE PARTITION WALL)
SEE SECTION DETAIL - C
UL DESIGN #U327
STC 50 MIN: TEST BASED ON BBN-760903

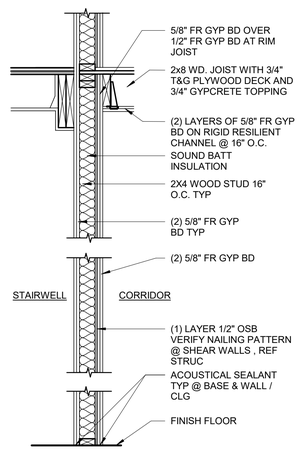
SEE SHEETS A10.2-A10.3

NOTE:
AT ELEVATOR SHAFT WALL, OMIT GYP ON SHAFT SIDE OF STUD



P4 (TYP PARTITION @ STAIRWELL /SUITE WALL)
TYP SUITE SIDE WALL: 2x4 WD STUD
UL DESIGN #U301
STC 55 MIN: TEST BASED ON KAISER GYPSUM KG 199 AND GEIGER AND HAMME OC-6FC

SEE SHEETS A10.1-A10.2



P5 (TYP PARTITION AT STAIRWELL/ CORRIDOR WALL)
UL DESIGN #U301
2 HR RATING
STC 40 MIN : TEST BASED ON NGC-2363

SEE SHEETS A10.1-A10.2

ROOM FINISH SCHEDULE

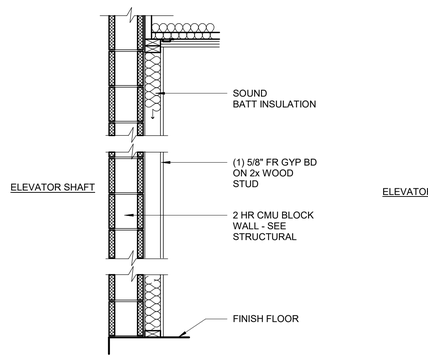
RM #	ROOM NAME	FLOOR	BASE	WALLS		CEILING			NOTES
				MAT	FINISH	MAT	FINISH	HEIGHT	
ALL GUEST SUITES									
	LIVING/SLEEPING	LVT-2	WB-1	GB	GWT	GB	GWT	7'-10 5/8"	7'-11 3/8" @ 1st FLOOR
	KITCHEN	LVT-2	WB-1	GB	GWT	GB	GWT	7'-10 5/8"	NOTE 1, FRP-1 BACKSPLASH, 7'-11 3/8" @ 1st FLR
	BATH	LVT-2	WB-1	GB	GWT	GB	GWT	7'-10 5/8"	NOTE 1, 7'-11 3/8" @ 1st FLOOR
STAIRS									
150	STAIRS	LVT-1	WB-1	GB	GWT	GB	GWT	-	
152	STAIRS	LVT-1	WB-1	GB	GWT	GB	GWT	-	
250	STAIRS	RR	WB-1	GB	GWT	GB	GWT	-	
252	STAIRS	RR	WB-1	GB	GWT	GB	GWT	-	
350	STAIRS	RR	WB-1	GB	GWT	GB	GWT	-	
352	STAIRS	RR	WB-1	GB	GWT	GB	GWT	-	
450	STAIRS	RR	WB-1	GB	GWT	GB	GWT	-	
452	STAIRS	RR	WB-1	GB	GWT	GB	GWT	-	
ELEVATOR									
	ELEVATORS	LVT-1	-	SPECS	SPECS	SPECS	-	7'-4 1/2"	
GROUND FLOOR									
100	CORRIDOR	CARPET	WB-1	GB	GWT	ACT/GB	-	VARIES	REF CEILING TILE PATTERN 1/A1.4
135	VESTIBULE	LVT-1	WB-1	GB	GWT	GB	GWT	7'-11 3/8"	
137	TRAINING	LVT-1	WB-1	GB	GWT	GB	GWT	7'-11 3/8"	
137B	AHU	SC	-	GB	PNT	GB	PNT	7'-11 3/8"	
138	VENDING	LVT-1	WB-1	GB	FRP/GWT	GB	GWT	7'-11 3/8"	
139	RESTROOM	LVT-1	WB-1	GB	FRP/GWT	GB	GWT	7'-11 3/8"	NOTE 1
140	MECHANICAL ROOM	SC	-	GB	PNT	GB	PNT	7'-11 3/8"	
141	DRYER	SC	-	GB	GWT	GB	GWT	7'-11 3/8"	
142	GUEST LAUNDRY	LVT-1	WB-1	GB	FRP/GWT	GB	GWT	7'-11 3/8"	
142B	AHU	SC	-	GB	PNT	GB	PNT	7'-11 3/8"	
143	STAFF LAUNDRY	LVT-3	WB-1	GB	FRP/GWT	GB	GWT	7'-11 3/8"	NOTE 2
143B	AHU	SC	-	GB	PNT	GB	PNT	7'-11 3/8"	
144	STORAGE	LVT-1	WB-1	GB	GWT	GB	GWT	7'-11 3/8"	
146	LOBBY	LVT-1	WB-1	GB	GWT	GB	GWT	7'-11 3/8"	
147	FITNESS	RUBBER	WB-1	GB	GWT	GB	GWT	7'-11 3/8"	
148	REGISTRATION	LVT-1	WB-1	GB	GWT	GB	GWT	7'-11 3/8"	
154	STORAGE	LVT-1	WB-1	GB	GWT	GB	GWT	7'-11 3/8"	
SECOND FLOOR									
200	CORRIDOR	CARPET	WB-1	GB	GWT	ACT/GB	-	VARIES	REF CEILING TILE PATTERN 2/A1.4
240	UTILITY ROOM	LVT-3	WB-1	GB	PNT	GB	PNT	7'-10 5/8"	
THIRD FLOOR									
300	CORRIDOR	CARPET	WB-1	GB	GWT	ACT/GB	-	VARIES	REF CEILING TILE PATTERN 2/A1.4
340	UTILITY ROOM	LVT-3	WB-1	GB	PNT	GB	PNT	7'-10 5/8"	
FOURTH FLOOR									
400	CORRIDOR	CARPET	WB-1	GB	GWT	ACT/GB	-	VARIES	REF CEILING TILE PATTERN 2/A1.4
440	UTILITY ROOM	LVT-3	WB-1	GB	PNT	GB	PNT	7'-10 5/8"	

ROOM FINISH NOTES:

1. MOISTURE RESISTANT GYPSUM BOARD AT WET WALLS.
2. WASHING MACHINE PAD PAINTED SW7650 "ELLIE GRAY", LINT COVER PAINTED SHERWIN WILLIAMS PRO INDUSTRIAL ZERO VOC. COLOR - SW7650 "ELLIE GRAY"

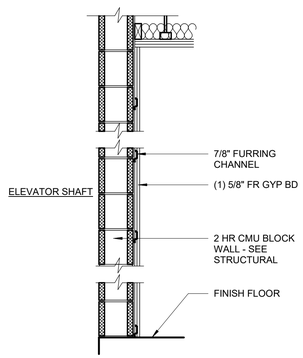
FINISH SCHEDULE ABBREVIATIONS LEGEND:

ACT	ACOUSTICAL CEILING TILE - 2'x2' LAY-IN	PNT	PAINT
FRP	FIBERGLASS REINFORCED PANEL	RR	RAISED ROUND FLOORING
GB	GYPSUM BOARD	SC	SEALED CONCRETE
GWT	GYPSUM WALL TEXTURE FINISH - KNOCKDOWN	WB	WALL BASE
LVT	LAMINATE VINYL TILE		



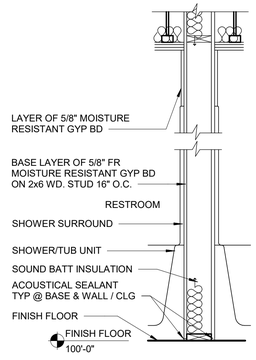
P6 (TYP ELEVATOR /CORRIDOR OR ROOM WALL)
UL DESIGN #U905
2 HR RATING

SEE SHEET A10.6



P7 (ELEVATOR/CORRIDOR WALL)
UL DESIGN #U905
2 HR RATING

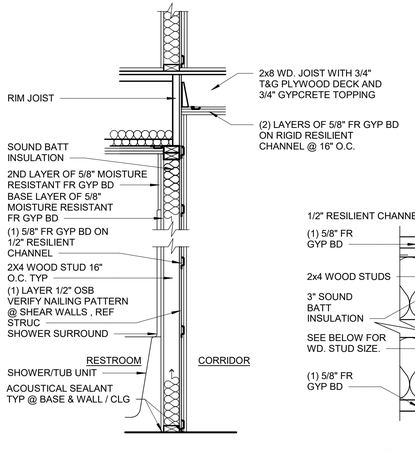
SEE SHEET A10.6



P8 (TYP. BATHROOM DEMISING WALL)
UL DESIGN #U305

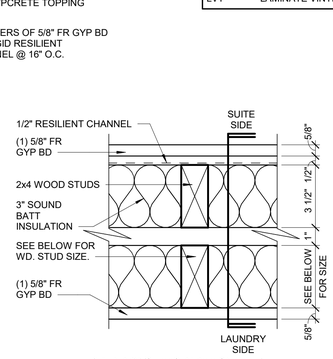
SEE DETAIL A10.3

P8A (TYP. BATHTUB WALL)
2x4 STUD DOUBLE GYP ON TUB SIDE, NO GYP ON OTHER



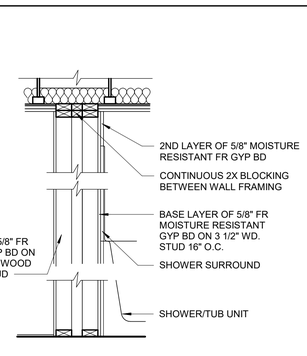
P9 (TYP BATHROOM WALL @ CORRIDOR)
UL DESIGN #U327

SEE SHEET A10.3

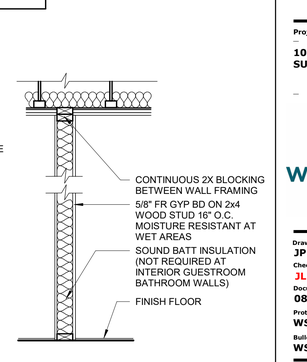


P10 (LAUNDRY /SUITES PARTITION WALL)
UL DESIGN #U341
*STAFF LAUNDRY ROOM: 3 1/2" WD STUD WALL
*GUEST LAUNDRY ROOM: 5 1/2" WD STUD WALL (COORDINATE FRAMING WITH PLUMBING)

SEE SHEET A10.4



P12 TYP NON BEARING INTERIOR PARTITION WALL AT TUB/SHOWER "BUMP OUT" NON-RATED

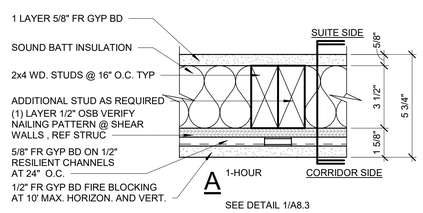


P13 TYP NON BEARING INTERIOR PARTITION WALL NON-RATED

PARTITION TYPE NOTES:

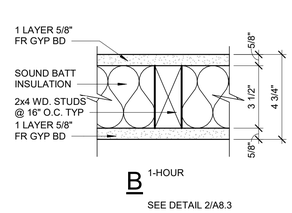
1. SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR FINISHES, TRIM, AND PANELING.
2. SEE FLOOR PLANS AND ENLARGED PLANS FOR LOCATIONS OF VARIOUS PARTITION TYPES.
3. IN SOME INSTANCES SOME PARTITION TYPES SHOWN HERE WILL BE SHEARWALLS WITH SHEATHING EVEN THOUGH THEY ARE NOT CALLED OUT AS SHEARWALLS IN THE SCHEDULE - SEE STRUCTURAL PLANS FOR LOCATIONS AND NAILING INFORMATION.
4. IF ANY DISCREPANCY IS FOUND BETWEEN PARTITION TYPES SHOWN ON THE ARCHITECTURAL PLANS AND SHEARWALL LOCATIONS INDICATED ON STRUCTURAL PLANS, THE STRUCTURAL PLANS SHALL GOVERN.
5. REF STRUCTURAL PLANS FOR STUD SPACING REQUIREMENTS.
6. REF STRUCTURAL PLANS FOR SHEAR WALL LOCATIONS. WHERE SHEAR WALL OCCURS, SHEATHING SHALL BE ON THE ROOM SIDE.
7. ALL PARTITIONS TO BE FULL HEIGHT U.N.O.
8. STC RATING BASED ON 15TH. ED. GYPSUM ASSOC. FIRE RESISTANCE DESIGN MANUAL AND SOUND, NOISE AND VIBRATION CONTROL BY LYLE F. YERGES.
9. ALL PENETRATIONS TO BE CAULKED WITH ACOUSTICAL SEALANT ON ALL CORRIDORS AND PARTY WALLS.
10. MOISTURE RESISTANT FR GYP BD IN ALL WET AREAS.
11. MINIMUM STC OF 50 AT GUESTROOMS (DEMISING WALLS AND CORRIDOR WALLS).

SECTION DETAILS:



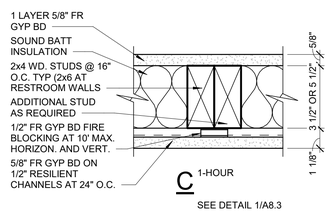
A 1-HOUR

SEE DETAIL 1/A8.3



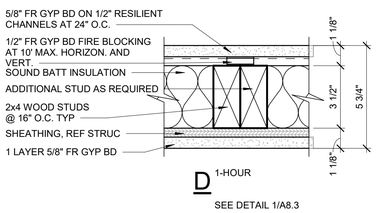
B 1-HOUR

SEE DETAIL 2/A8.3



C 1-HOUR

SEE DETAIL 1/A8.3



D 1-HOUR

SEE DETAIL 1/A8.3

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brr

Architect of Record:
BRR Architecture, Inc.

8131 METCALF AVE, SUITE 300
OVERLAND PARK, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By: JP
Checked By: JL
Document Date: 08/16/23
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_B08

Project No. 31000541

Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB ARCHITECT
LICENSE NO. 2022000409

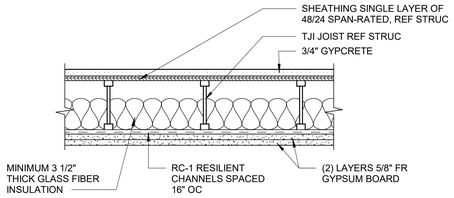
BRR ARCHITECTURE, INC. ARCHITECTURAL CORPORATION MISSOURI LICENSE NO. ARC 000160

Sheet Title

PARTITIONS, FINISH SCHEDULE & DETAILS

Sheet No. A7.1

BRR Original printed on recycled paper

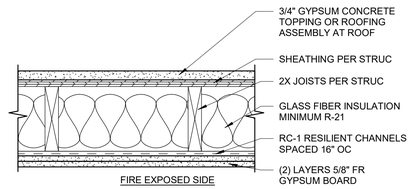


GUESTROOM FLOOR/CEILING ASSEMBLY

HORIZONTAL ASSEMBLY TYPE: **HA1**

1 HR FLOOR/CEILING ASSEMBLY

SCALE: 1 1/2" = 1'-0" ICC ESR-1153 ASSEMBLY B



5/8" GYPSUM WALLBOARD = 30 MINUTES
5/8" GYPSUM WALLBOARD = 30 MINUTES

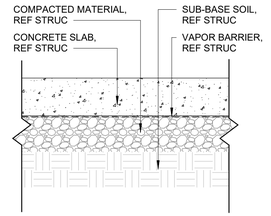
COMBINED ASSEMBLY FIRE RESISTANCE RATING = 60 MINUTES

CORRIDOR FLOOR/CEILING ASSEMBLY

HORIZONTAL ASSEMBLY TYPE: **HA2**

1 HR FLOOR/CEILING ASSEMBLY

SCALE: 1 1/2" = 1'-0" IBC TABLES: 722.6.2(1) & 722.6.2(2)

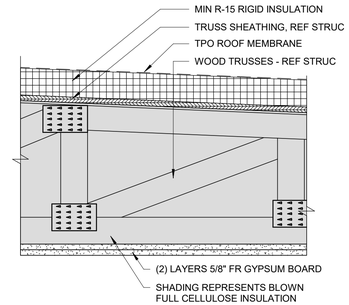


SLAB ON GRADE ASSEMBLY

ASSEMBLY TYPE: **HA3**

NON-RATED SLAB ON GRADE ASSEMBLY

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

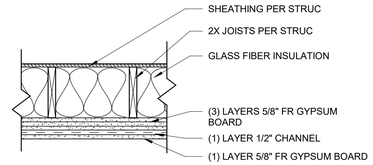


TRUSS/CEILING ASSEMBLY

HORIZONTAL ASSEMBLY TYPE: **HA4**

1 HR ROOF/CEILING ASSEMBLY

SCALE: 1 1/2" = 1'-0" GA FILE NO. RC 2602

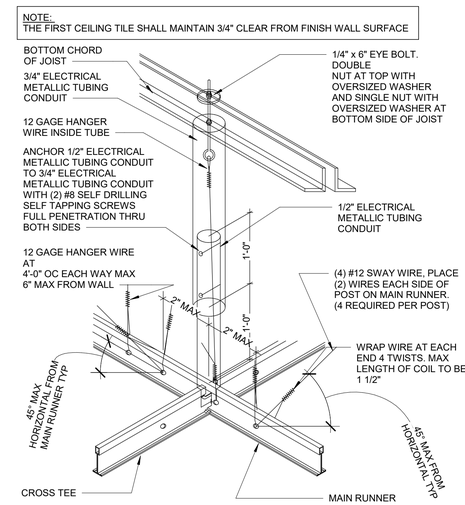


ELEVATOR AND STAIR CEILING ASSEMBLY

HORIZONTAL ASSEMBLY TYPE: **HA5**

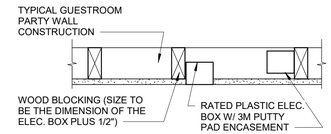
2 HR CEILING ASSEMBLY

SCALE: 1 1/2" = 1'-0" GA FILE NO. FC 5725



2 CEILING GRID DETAIL

3/4" = 1'-0"



This category covers proprietary compositions which are used to maintain the hourly ratings of fire resistive walls containing flush mounted devices such as outlet boxes electrical cabinets and mechanical cabinets. The individual classifications indicate the specific applications and the method of installation for which the materials have been evaluated. The basic standard used to investigate products in this category is ANSI/UL 263, "Fire test of building construction and materials".

Look for classification marking on product.

This classification marking of underwriters laboratories, inc. (shown above) on the product or container is the only method provided by underwriters laboratories, inc. Wall opening protective materials produced to identify under its classification and follow-up service.

UNDERWRITERS LABORATORIES, INC. CLASSIFIED WALL OPENING PROTECTIVE MATERIAL FIRE RESISTANCE CLASSIFICATION. SEE PRODUCT CATEGORY IN UL FIRE RESISTANCE DIRECTORY
MINNESOTA MINING & MFG CO 3M CENTER, ST PAUL, MN 55144

Type MPP-4S+ moldable putty pads for use with max 4-11/16 x 4-11/16 flush device UL listed metallic outlet boxes in fire rated GYP wallboard wall assemblies framed with min 3 1/2" wide wood or steel studs and constructed as specified in the individual U300 or U400 series wall and partition designs in the fire resistance directory. Moldable putty pads are to be installed to completely cover the exterior surface of the box within the stud cavity with a ball of putty material used to plug the end of each electrical metallic tube or conduit at its connection to the box. A min 1/8 in. thickness of putty material is required on the exterior surfaces of flush device boxes in 1 and 2 hr fire rated wall and partition designs. When the moldable putty pad outlet box protective material is used as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 " provided that the outlet boxes are not installed back to back.

UL DESIGN NO. UL R9700 (N)

1 WALL OPENING PROTECTIVE MATERIALS (CLIV)

1 1/2" = 1'-0"

8/16/2023 12:50:54 PM

brr

Architect of Record:
BRR Architecture, Inc.

8131 METCALF AVE, SUITE 300
OVERLAND PARK, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

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Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By: JP
Checked By: JL
Document Date: 08/16/23
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_B08

Project No.

31000541

Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB ARCHITECT
LICENSE NO. 2022000409

BRR ARCHITECTURE, INC.
ARCHITECTURAL CORPORATION
MISSOURI LICENSE NO. ARC 000160

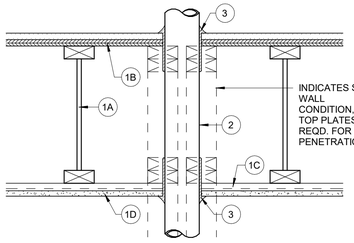
Sheet Title

ASSEMBLIES & DETAILS

Sheet No.

A7.2

BRR Original printed on recycled paper



1. Floor Assembly -- The fire rated wood truss or combination wood and steel truss Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual L500 Series Design in the UL Fire Resistance Directory and shall include the following con- construction features:

A. Trusses -- Min. 12" deep parallel chord trusses fabricated from nom 2 x 4 lumber in conjunction with galv. steel truss plates or *Structural Wood Members** with bridging as required.

B. Flooring -- 3/4" thick plywood flooring with or without *Floor Topping Mixture**. Max diam. of opening hole-sawed in flooring is 5 in.

C. Furring Channels -- Rigid or resilient galv. steel furring channels installed perpendicular to bottom chord of trusses.

D. Wallboard, Gypsum* -- 4 ft. wide by 5/8 in. thick, screw attached to furring channels. Max diam. of hole-sawed opening in gypsum wallboard ceiling is 5 in.

2. Pipe or Conduit -- 4" diam (or smaller) Schedule 10 (or heavier) steel pipe, steel conduit or steel EMT, or cast iron pipe or 3" diam. (or smaller) Type L (or heavier) copper tubing. Pipe to be installed approx. midway between trusses and centered in circular cutouts in flooring (Item 1B) and gypsum wallboard ceiling (Item 1D). Diam. of circular cutouts in flooring and gypsum wallboard ceiling to be 1/4 in. to 1/2 in. larger than diam. of pipe. Pipe to be rigidly supported on both sides of Floor-Ceiling assembly.

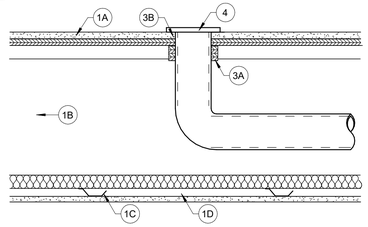
3. Fill, Void or Cavity Materials* -- Caulk -- Caulk forced into annular space throughout the thickness of the flooring and gypsum wallboard ceiling and with a min. 1/4" diam bead of caulk applied to perimeter of pipe at its egress from the top of the flooring and the underside of the gypsum wallboard ceiling.
Minnesota Mining & Mfg. Co.-Type CP-25 WB, CP-25 WB+

*Bearing the UL Classification Marking

UL SYSTEM NO. F-C-1006
(STUD WALLS, SIM)
(FORMERLY SYSTEM NO. 453)
F RATING - 1 HR
T RATING - 1 HR

10 PIPE PENENTRATION AT CEILING/FLOOR ASSEMBLY

1 1/2" = 1'-0"



1. Floor-Ceiling Assembly -- The fire rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction details of the floor-ceiling assembly are summarized below:

A. Flooring System -- Lumber or plywood subfloor with finish floor of lumber, plywood or *Floor Topping Mixture** as specified in the individual Floor-Ceiling Design. Max diam. of opening is 5 in.

B. Wood Joists -- 2 x 10 lumber joists spaced 16" O.C. with 1 x 3 lumber bridging and with ends firestopped. As an alternate to lumber joists, 10" deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or *Structural Wood Members** with bridging as required with end firestopped.

C. Furring Channels -- Resilient galv. steel furring installed perpendicular to wood joists (Item 1B) between wallboard (Item 1D) and wood joists as required in the individual Floor-Ceiling Design.

D. Wallboard Gypsum* -- 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design. Wallboard secured to wood joists as specified in the individual Floor-Ceiling Design.

2. Drain Piping -- 4" diam. (or smaller) Schedule 40 polyvinyl chloride (PVC) or acrylonitrile butadiene styrene (ABS) drain piping and fittings. Diam of circular opening hole through flooring (Item 1A) to be max. 1/2 in. larger than outside diam of pipe. Short length of pipe with 90 degree elbow fitting cemented into bottom socket of closet flange (Item 5). Drain piping cemented to elbow.

3. Firestop System -- The firestop system shall consist of the following:

A. Fill, Void or Cavity Material* -- Wrap Strip -- 1/4" thick intumescent material faced on both sides with plastic film, supplied in 1-1/2" wide strips. 1-1/2" wide strips tightly-wrapped around nonmetallic pipe with the edges butted against the underside of flooring around the entire perimeter of the hole sawed opening. Two layers of wrap strip are required. Each layer of wrap strip to be installed with butted seam, butted seams in successive layers staggered or aligned. Wrap strip layer(s) temporarily held in position using aluminum foil tape. Specified Technologies Inc. -- SpecSeal RED Strip

B. Steel Collar -- Collar fabricated from coils of precut 0.016 in. thick (30 MSG) galv. sheet steel available from wrap strip manufacturer. Collar shall be nom 1-1/2" deep with min four 1 in. wide by 2 in. long anchor tabs for securement to top surface of flooring. Retainer tabs, 3/4 in. wide tapering down to 1/4" wide and located opposite the anchor tabs, are folded 90 degrees toward though-penetrate surface to maintain the annular space around the though-penetrate and to retain the wrap strips. Steel collar wrapped around wrap strips and through-penetrate with a 1" wide overlap along it's perimeter joint and secured together by means of min 1/2" wide by 0.028 in. thickness stainless steel hose clamp at mid-height of the steel collar. A an alternate to the steel hose clamp, the steel collar can be secured together by means of three No.8 by 3/8 in. long steel sheet metal screws. Anchor tabs of collar bent outwards and secured to top surface of flooring or underside of floor using min 3/4 in. long steel wood screws in conjunction with 1/4 in. by 1-1/4 in. diam. steel fender washers.

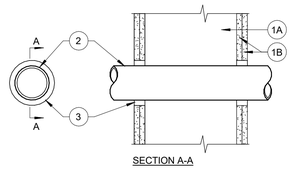
4. Closet Flange -- PVC or ABS closet stub sized to accommodate drain pipe. Closet flange installed in hole-sawed opening in flooring system with flange secured to top of flooring with steel screws.

5. Water Closet -- (Not Shown) -- Floor mounted vitreous china

UL SYSTEM NO. F-C-2037
F RATING - 1 HOUR
T RATING - 1 HOUR

5 DRAIN PIPE PENETRATION

1 1/2" = 1'-0"



SECTION A-A

1. Wall Assembly -- The 1 or 2 hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Stud -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of 2 x 4 lumber spaced 16" O.C. Steel studs to be min. 2-1/2 in. wide and spaced 24" O.C.
B. Wallboard, Gypsum* -- 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 2-1/2"
2. Cables - One cable to be centered within the firestop system. A Nomannular space of 1/4" is required within the firestop system. Cable to be rigidly supported on both sides of wall assembly. The following types and sizes of cables may be used:
A. Max 50 pair No. 24 AWG (or smaller) copper conductor telephone cables with polyvinyl chloride (PVC) insulation and jacket materials.
B. Max 3/C (with ground) - No. 10 AWG (or smaller) PVC insulated and jacketed non metallic sheathed (Romex) Cable.
C. Max 3/C (with ground) - No. 2/O AWG aluminum conductor service entrance cable with PVC insulation and jacket materials.
2A. Through-Penetrants* - As an alternate to Item 2, max four copper conductor No. 2 AWG (or smaller) aluminum or steel Armored Cable+ or 4/C No, 2/0 AWG Metal-Clad Cable+, Max one armored cable or metal clad cable centered within the firestop system. The annular space between the through- penetrating product and the periphery of the opening shall be 3/8 in. Through- Penetrating product to be rigidly supported on both sides of wall assembly.
KAF-TECH Inc.
3. Fill, Void or Cavity Material* -- Sealant or Putty-- Fill material applied within the annulus, flush with both surfaces of wall. Additional fill material to be installed such that a crown is formed around the penetrating item. The T Rating of the firestop system is dependent upon the hourly rating of the wall type of though penetrant and type and thickness of fill material as tabulated below:

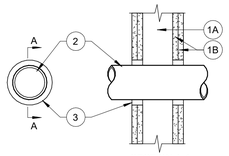
Hourly Rating of Wall (HR)	Type of Through Penetrant	Type of Fill Material	Thickness of Fill Material (In.)	Thickness of Fill Material (Crown In.)	T Rating (Hr.)
1	Telephone Cable	Sealant	5/8	1/4	1
2	Telephone Cable	Sealant	5/8	1/4	2
1	Telephone Cable	Putty	5/8	3/8	1
2	Telephone Cable	Putty	3/4	1/4	2
1	Romex Cable	Sealant	5/8	3/8	1
2	Romex Cable	Sealant	3/4	1/4	2
1	Romex Cable	Putty	5/8	3/8	1
2	Romex Cable	Putty	3/4	1/4	2
2	Service Cable	Sealant	5/8	1/4	1/2
1	Service Cable	Sealant	5/8	1/4	1/2
2	Armored Cable	Sealant	5/8	1/4	1/2
1	Armored Cable	Sealant	5/8	1/4	1/2
2	Metal Clad Cable	Sealant	5/8	1/4	1/2
1	Metal Clad Cable	Sealant	5/8	1/4	1/2

Specified Technologies Inc. - SpecSeal 100, 101, 102 or 105 Sealant or SpecSeal Putty
*Bearing the UL Classification Marking
+Bearing the UL Listing Mark

UL SYSTEM NO. W-L-2138
F RATING - 1 HR
T RATING - 1 HR

9 PIPE PENETRATION AT WALL

1 1/2" = 1'-0"



SECTION A-A

1. Wall Assembly -- The hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Stud -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of 2 x 4 lumber spaced 16" O.C. Steel studs to be min. 3-5/8 in. wide and spaced 24" O.C.

B. Wallboard, Gypsum* -- One Layer of 5/8 in. thick GYP bd., as specified in the individual wall and partition design. Max diam of opening is 3-1/8"

2. Through-Penetrants -- One nonmetallic pipe or tubing installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes or tubing may be used:
A. Polyvinyl Chloride (PVC) Pipe -- 2" diam. (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) piping systems.

B. Chlorinated Polyvinyl Chloride (CPVC) Pipe -- 2" diam. (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) piping systems. The annular space between pipe and periphery of opening shall be min. 1/4" to max. 1/2"

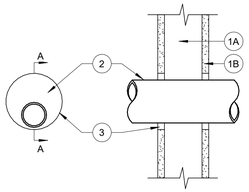
C. Crosslinked Polyethylene (PEX) Tubing - 3/4" diam. (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems. The annular space between tubing and periphery of opening shall be min 1/4" to max 5/8

3. Fill, Void or Cavity Material* -- Sealant -- Min 5/8" thickness of fill material applied within the annulus, flush both surfaces of wall
OSI Sealants, Inc. - Flame Seal
*Bearing the UL Classification Marking

UL SYSTEM NO. W-L-2138
F RATING - 1 HR
T RATING - 1 HR

4 PIPE PENETRATION AT WALL

1 1/2" = 1'-0"



SECTION A-A

1. Wall Assembly -- The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Stud -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of 2 x 4 lumber spaced 16" O.C. Steel studs to be min. 2-1/2 in. wide and spaced 24" O.C.

B. Wallboard, Gypsum* -- One layers of 5/8 in. thick GYP bd., as specified in the individual Wall and Partition Design. Max. diam of opening is 2-1/4"

2. Through-Penetrants -- One nonmetallic pipe or conduit for use in closed (process or supply) or vented (drain, waste or vent) piping systems, installed either concentrically or eccentrically within the firestop system. The annular space between the pipe or conduit and the edge of the opening shall be min 3/8" to max 13/16" Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:

A. Polyvinyl Chloride (PVC) Pipe -- 3/4" diam. (or smaller) Schedule 40 cellular or solid core PVC pipe .

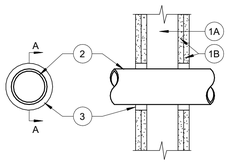
B. Chlorinated Polyvinyl Chloride (CPVC) Pipe -- 3/4" Diam. (or Smaller) SDR17 Pipe.

3. Fill, Void or Cavity Material* -- Sealant -- Min thickness of 5/8" of fill material applied within annulus between pipe or conduit and periphery of the opening, flush with both surfaces of wall assembly.
The Restorseal Corp. - Metacaulk 835+
*Bearing the UL Classification Marking

UL SYSTEM NO. W-L-2134
F RATING - 1 HOUR
T RATING - 1 HOUR

8 PIPE PENETRATION AT WALL

1 1/2" = 1'-0"



1. Wall Assembly -- The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Stud -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of 2 x 4 lumber spaced 16" O.C. Steel studs to be min. 2-1/2 in. wide and spaced 24" O.C.

B. Wallboard, Gypsum* -- Two layers of 5/8 in. thick GYP bd., as specified in the individual Wall and Partition Design. Max. diam of opening is 3"

2. Through-Penetrants -- One nonmetallic pipe to be centered within the firestop system. Pipe to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes or conduit may be used:

A. Polyvinyl Chloride (PVC) Pipe -- 2" diam. (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) piping systems.

B. Chlorinated Polyvinyl Chloride (CPVC) Pipe -- 2" diam. (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) piping systems.

C. Rigid Nonmetallic Conduit -- 2" diam. (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).

3. Fill, Void or Cavity Material* -- Sealant -- In 2 hr. fire rated assemblies, min. 1-1/4" thickness of fill material applied within the annulus, flush with both surfaces of wall. In 1 hr. fire rated assemblies, min. 5/8" thickness of fill material applied within the annulus, on both surfaces of wall. Additional fill material to be installed such that a min. 5/8" thick crown is formed around the penetrating item and lapping a min. 1" beyond the periphery of the opening. The max. diam. of the through penetrant and annular space within the firestop system is dependent upon the type of fill material as tabulated below:

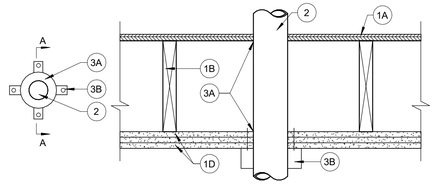
Max. Diam. of through Penetrant In.	Nom. Annular Space In.	Fill Material Type
1	1/2	EP
2	1	I

Isolatek International - Types EP and I
*Bearing the UL Listing Mark
* Bearing the UL Classification Marking

UL SYSTEM NO. W-L-2121 OR W-L-2122
F RATING - 2 HOUR
T RATING - 0 HOUR

3 PIPE PENETRATION AT WALL

1 1/2" = 1'-0"



1. Floor-Ceiling Assembly -- The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The 2 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified. The F and T Ratings of the firestop system are equal to the hourly fire rating of the floor-ceiling assembly. The general construction features of the floor-ceiling assembly are summarized below:

A. Flooring System -- Lumber or plywood subfloor with finish floor of lumber, plywood or *Floor Topping Mixture** as specified in the individual Floor-Ceiling Design. Max Diam. of floor opening is 4-3/4".

B. Wood Joists* -- For 1 hr fire -- rated floor ceiling assemblies, 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or *Structural Wood Members** with bridging as required and with ends firestopped. For 2 hr fire - rated floor - ceiling assemblies, 2 x 10 lumber joists spaces 16" O.C. with 1 x 3 lumber bridging and with ends firestopped.

C. Furring Channels -- (not shown) -- In 2 hr fire rated assemblies resilient galv. steel furring installed perpendicular to wood joists between first and second layers of wallboard (Item 1D). Furring channels spaced max 24" O.C. In 1 hr fire - rated assemblies, resilient galv. steel furring installed perpendicular to wood joists between wallboard and wood joists as specified in the individual *Floor Ceiling Design*. Furring channels spaced max 24" O.C.

D. Wallboard, Gypsum* -- 4 ft wide by 5/8 in. thick as specified in the individual *Floor Ceiling design*. First layer of wallboard secured to wood joists or furring channel as specified in the individual Floor Ceiling Design. Second layer of wallboard (2 hr fire-rated assembly) screw attached to furring channels as specified in the individual Floor Ceiling Design. Max diam. of ceiling opening is 4-3/4".

2. Nonmetallic Pipe -- 4" diam. (or smaller) Schedule 40 solid core polyvinyl chloride (PVC) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. One pipe to be installed either concentrically or eccentrically within the firestop system. For pipes 2" in diam. (or smaller) the annular space shall be min. 0" to max 3/8". Pipe to be rigidly supported on both sides of floor of wall assembly.

3. Firestop System -- The firestop system shall consist of the following:
A. Fill, Void or cavity Material* -- Caulk -- Min. 3/4" thickness of fill material applied within the annulus on top surface of floor. Additional fill material to be installed such that a min. 3/4" crown is formed around the penetrating item on top surface of floor. Min. 1/4" thickness of fill material applied within the annulus, flush with bottom surface of ceiling. Additional fill material to be installed such that a min. 1/4" crown is formed around the penetrating item on the bottom surface of the ceiling.
Tremco Inc. -- TREMstop - WBM

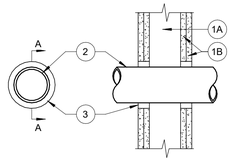
B. Firestop Device* -- Firestop device shall be installed in accordance with the accompanying installation instructions. Device wrapped over the pipe and secured by using the attached hose clamp. Device slid along the pipe until it abuts the bottom of the ceiling . Device secured to floor with 1/4 in. by 1-3/4 in. long hollow wall anchors in conjunction with 1-1/4" diameter fender washers.
Tremco Inc. -- TREMstop D.

*Bearing the UL Classification Marking

SYSTEM NO. F-C-2049
F RATINGS - 1 AND 2 HR (SEE ITEM 1)
T RATINGS - 1 AND 2 HR (SEE ITEM 1)

7 PIPE PENETRATION AT CEILING/FLOOR

1 1/2" = 1'-0"



SECTION A-A

1. Wall Assembly -- The 1 or 2 hr. fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Stud -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of 2 x 4 lumber spaced 16" O.C. Steel studs to be min. 2-1/2 in. wide and spaced 24" O.C.

B. Wallboard, Gypsum* -- 5/8 in. thick, 4 ft. wide square or tapered edges. The gypsum wallboard, type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max. diam. opening is 4-3/8 in. The hourly F and T Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through-Penetrants -- One nonmetallic pipe or conduit to be centered within the firestop system. The max. diam. of the through penetrant and annular space within the firestop system is dependent upon the type of fill material (Item 3). Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes or conduit may be used:

A. Polyvinyl Chloride (PVC) Pipe -- 2" diam. (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) piping systems.

B. Chlorinated Polyvinyl Chloride (CPVC) Pipe -- 2" diam. (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) piping systems.

C. Rigid Nonmetallic Conduit -- 2" diam. (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).

3. Fill, Void or Cavity Material* -- Sealant -- In 2 hr. fire rated assemblies, min. 1-1/4" thickness of fill material applied within the annulus, flush with both surfaces of wall. Additional fill material to be installed such that a min. 5/8" thick crown is formed around the penetrating item and lapping a min. 1" beyond the periphery of the opening. The max. diam. of the through penetrant and annular space within the firestop system is dependent upon the type of fill material as tabulated below:

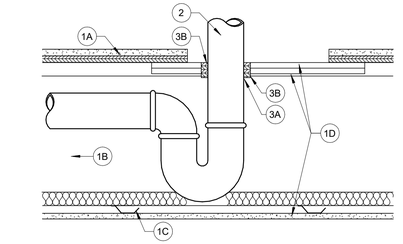
Max. Diam. of through Penetrant In.	Nom. Annular Space In.	Fill Material Type
1	1/2	EP
2	1	I

Isolatek International - Types EP and I
*Bearing the UL Listing Mark
* Bearing the UL Classification Marking

UL SYSTEM NO. W-L-2067
(STUD WALLS SIMILAR)
F RATING - 1 & 2 HOUR
T RATING - 1 & 2 HOUR

2 PIPE PENETRATION AT FIRESTOP

1 1/2" = 1'-0"



1. Floor-Ceiling Assembly -- The fire-rated solid or trussed lumber joist floor-ceiling assembly shall be construction of the materials and in the manner specified in individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction details of the floor-ceiling assembly are summarized below:

A. Floor System -- Lumber or plywood subfloor with finish floor of lumber, plywood or *Floor Topping Mixture** as specified in the individual Floor Ceiling Design. Rectangular cutout in flooring to accommodate the bathtub drain piping (Item 2) to be max 8 by 12 in.

B. Wood Joists -- 2 X 10 lumber joists spaced 16" O.C. with 1 x 3 lumber bridging and with ends firestopped. An alternate to lumber joists, 10" deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or *Structural Wood Members** with bridging as required with ends firestopped.

C. Furring Channels -- Resilient galv. steel furring installed perpendicular to wood joist (Item 1B) between wallboard (Item 1D) and wood joists as required in the individual Floor-Ceiling Design.

D. Wallboard Gypsum* -- 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling Design. Wallboard secured to wood joists as specified in the individual Floor-Ceiling Design. Two pieces of gypsum wallboard, each min 4" longer and wider than the cutout in the flooring, screw-attached to bottom of flooring concentric with cutout. Diam. of opening hole-sawed through both layers of the GYP wallboard patch to be 1/2 to 5/8 in. larger than outside diam. of bathtub drain piping (Item 2).

2. Drain Piping -- 1-1/2" diam. Schedule 40 polyvinyl chloride (PVC) or acrylonitrile butadiene styrene (ABS) pipes and drain fittings cemented together and provided with PVC or ABS bathtub waste/ overflow fittings, respectively.

3. Firestop System -- The firestop system shall consist of the following:

A. Fill, Void or Cavity Materials* -- Wrap Strip -- 1/4" thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 in. 1-1/2" wide aluminum foil tape and slid into hole-sawed opening in gypsum wallboard path (Item 1D). Top edge of wrap strip to extend a 1/2" below above top surface of GYP wallboard patch. Specified Technologies Inc. -- SpecSeal RED Strip

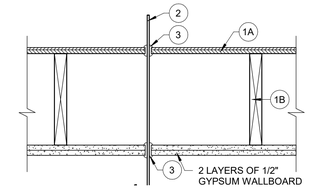
B. Fill, Void or Cavity Materials* -- Sealant -- 1/4" thickness of fill material to be applied to perimeter of wrap strip at it's egress from the underside of the gypsum wallboard patch. 1/4" thickness of fill material to be applied to the exposed edge of the wrap strip layer and to fill all gaps between the wrap strip layer and the tee of the drain fitting on the top surface of the gypsum wallboard patch. Specified Technologies Inc. -- Spec Seal 100, 101 or 105 Sealant

*Bearing the UL Classification Marking

UL SYSTEM NO. F-C-2036
F RATING - 1 HOUR
T RATING - 1 HOUR

6 DRAIN PIPE PENETRATION AT TUB

1 1/2" = 1'-0"



1. Floor-Ceiling Assembly -- The 1 or 2 hr. fire-rated wood joist Floor-Ceiling assembly shall be constructed of the materials and in the manner as specified in Design No. L501, L512 or L537. The 2 hr. fire rated assembly shall be constructed as specified in Design No. L505, L511 or L536. The F and T ratings of the firestop system are equal to the 1 or 2 hr. fire rating of the Floor-ceiling assembly is summarized below:

A. Flooring System -- Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture as specified in the individual Floor-Ceiling design.

B. Wood Joists -- 2 x 10 lumber joists spaced 16" O.C. with nominal 1 x 3 lumber bridging and with ends firestopped.

C. Furring Channels -- (Not Shown) - NOT USED

D. Wallboard, Gypsum -- 4 ft wide by 5/8 in. thick as specified in the individual Floor-Ceiling design. First layer of wallboard nailed to wood joists. Second layer of wallboard (2 hr. fire rated assembly only)

2. Cable -- Maximum 25 pair No. 24 AWG copper conductor telephone cable or maximum two-conductor with ground No. 12 or No. 14 AWG Type NM nonmetallic sheath copper conductor cable. Cable insulation and jacket material to be polyvinyl chloride. Maximum one cable to be installed in nominal 1/2" diameter holes drilled through flooring system and gypsum wallboard ceiling.

3. Fill, Void or Cavity Materials -- Caulk -- Caulk fill material forced into annular spaces to fill spaces to maximum extent possible and with a minimum 1/4 in. high by 3/8 in. wide bead of caulk applied to the perimeter of the cable at its egress from the finish floor and ceiling.

* Bearing the UL Classification Marking

UL SYSTEM NO. F-C-3001
(FORMERLY SYSTEM NO. 168)
F RATINGS - 1 AND 2 HR. (SEE ITEM 1)
T RATINGS - 1 AND 2 HR. (SEE ITEM 1)

1 CABLE PENETRATION AT CEILING/FLOOR ASSEMBLY

1 1/2" = 1'-0"

FOR REFERENCE ONLY

8/16/2023 12:50:55 PM

brr

Architect of Record:
BRR Architecture, Inc.

8131 METCALF AVE,
SUITE 300
OVERLAND PARK, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By:
JP
Checked By:
JL
Document Date:
08/16/23
Protocycle:
WSS_v5_2023.1 (05/05/23)
Bulletins Through:
WSS_v2_808

Project No.

31000541

Professional Seal

Sheet Title

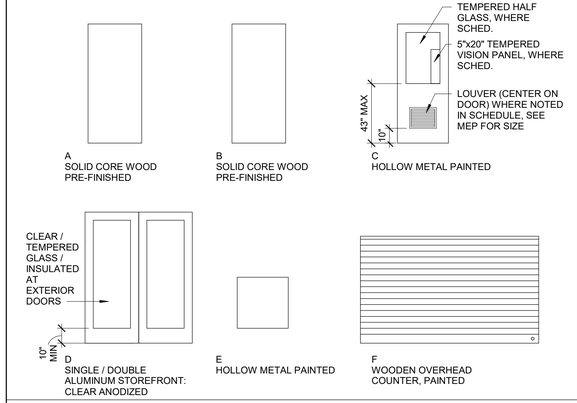
ASSEMBLY PENETRATION DETAILS

Sheet No.

A7.3

BRR Original printed on recycled paper

DOOR TYPES



A
SOLID CORE WOOD PRE-FINISHED

B
SOLID CORE WOOD PRE-FINISHED

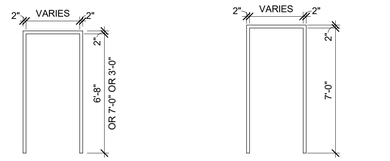
C
HOLLOW METAL PAINTED

D
SINGLE / DOUBLE ALUMINUM STOREFRONT: CLEAR ANODIZED

E
HOLLOW METAL PAINTED

F
WOODEN OVERHEAD COUNTER, PAINTED

FRAME TYPES



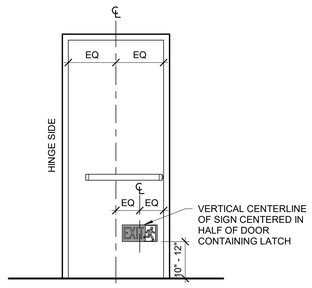
A
HOLLOW METAL-PAINTED; JAMB ANCHORS: MIN. 3 PER JAMB ALL WELDED CONSTRUCTION

B
ALUMINUM PRE-FINISHED STOREFRONT FRAME

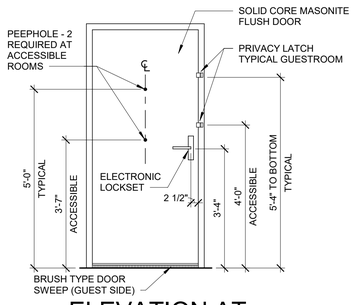
DOOR SCHEDULE

MARK	ROOM NAME	DOOR W	DOOR H	DOOR T	DOOR MATERIAL	DOOR FINISH	DOOR TYPE	DOOR GLAZING	DOOR LABEL	FRAME TYPE	FRAME MATERIAL	FRAME HEAD	FRAME JAMB	FRAME SILL	HARDWARE SET	REMARKS
GUESTROOMS																
A	GUESTROOM	3' - 0"	6' - 8"	1 3/4"	SC WOOD	PRE-FIN	A	-	20 MIN	A	H.M. TIMELY	3/A8.1	2/A8.1	1/A8.1	013, 014	DOOR HARDWARE SET 014 AT ADA ROOMS
B	RESTROOM	3' - 0"	6' - 8"	1 3/4"	SC WOOD	PRE-FIN	B	-	-	A	H.M. TIMELY	3/A8.1	2/A8.1	1/A8.1	016	1/2" UNDERCUT
STAIRS																
150A	STAIRS	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	5"x20" VP	-	A	HOLLOW METAL	7/A8.1	6/A8.1	4/A8.1	003	TEMPERED GLASS, FIRE EXIT HARDWARE; NOTE 1
150B	STAIRS	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	5"x20" VP	90 MIN	A	HOLLOW METAL	10/A8.1	9/A8.1	8/A8.1 SIM	009	90 MIN FIRE GLASS, FIRE EXIT HARDWARE; NOTE 1
152A	STAIRS	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	5"x20" VP	-	A	HOLLOW METAL	7/A8.1	6/A8.1	4/A8.1	003	TEMPERED GLASS, FIRE EXIT HARDWARE; NOTE 1
152B	STAIRS	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	5"x20" VP	90 MIN	A	HOLLOW METAL	10/A8.1	9/A8.1	8/A8.1 SIM	009	90 MIN FIRE GLASS, FIRE EXIT HARDWARE; NOTE 1
250	STAIRS	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	5"x20" VP	90 MIN	A	HOLLOW METAL	10/A8.1	9/A8.1	8/A8.1 SIM	009	90 MIN FIRE GLASS, FIRE EXIT HARDWARE; NOTE 1
252	STAIRS	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	5"x20" VP	90 MIN	A	HOLLOW METAL	10/A8.1	9/A8.1	8/A8.1 SIM	009	90 MIN FIRE GLASS, FIRE EXIT HARDWARE; NOTE 1
350	STAIRS	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	5"x20" VP	90 MIN	A	HOLLOW METAL	10/A8.1	9/A8.1	8/A8.1 SIM	009	90 MIN FIRE GLASS, FIRE EXIT HARDWARE; NOTE 1
352	STAIRS	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	5"x20" VP	90 MIN	A	HOLLOW METAL	10/A8.1	9/A8.1	8/A8.1 SIM	009	90 MIN FIRE GLASS, FIRE EXIT HARDWARE; NOTE 1
450	STAIRS	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	5"x20" VP	90 MIN	A	HOLLOW METAL	10/A8.1	9/A8.1	8/A8.1 SIM	009	90 MIN FIRE GLASS, FIRE EXIT HARDWARE; NOTE 1
452	STAIRS	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	5"x20" VP	90 MIN	A	HOLLOW METAL	10/A8.1	9/A8.1	8/A8.1 SIM	009	90 MIN FIRE GLASS, FIRE EXIT HARDWARE; NOTE 1
FIRST FLOOR																
135A	VESTIBULE	6' - 0"	7' - 0"	1 3/4"	ALUMINUM	PRE-FIN	D	FULL GLASS	-	B	ALUMINUM	13/A8.1	12/A8.1	11/A8.1	001	PAIR 3'-0" DOORS, CLEAR TEMPERED GLASS
135B	VESTIBULE	6' - 0"	7' - 0"	1 3/4"	ALUMINUM	PRE-FIN	D	FULL GLASS	-	B	ALUMINUM	18/A8.1	17/A8.1	16/A8.1	005	PAIR 3'-0" DOORS, CLEAR TEMPERED GLASS
136	CORRIDOR	3' - 6"	7' - 0"	1 3/4"	ALUMINUM	PRE-FIN	D	FULL GLASS	-	B	ALUMINUM	15/A8.1	14/A8.1	11/A8.1	004	CLEAR TEMPERED GLASS
137B	AHU	2' - 6"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	-	-	A	H.M. TIMELY	3/A8.1	2/A8.1	1/A8.1	015A	NOTE 1
139	RESTROOM	3' - 0"	6' - 8"	1 3/4"	SC WOOD	PRE-FIN	A	-	-	A	H.M. TIMELY	3/A8.1	2/A8.1	1/A8.1	007	-
140	MECHANICAL ROOM	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	-	-	A	HOLLOW METAL	7/A8.1	6/A8.1	4/A8.1	002	NOTE 1
141	STAFF LAUNDRY	2' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	-	-	A	H.M. TIMELY	3/A8.1	2/A8.1	1/A8.1	015	NOTE 1
142A	GUEST LAUNDRY	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	HALF GLASS	45 MIN	A	HOLLOW METAL	10/A8.1	9/A8.1	8/A8.1	012	45 MIN. FIRE GLASS; NOTE 1
142B	AHU	2' - 6"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	-	-	A	H.M. TIMELY	3/A8.1	2/A8.1	1/A8.1	015A	NOTE 1
142C	GUEST LAUNDRY	2' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	-	-	A	H.M. TIMELY	3/A8.1	2/A8.1	1/A8.1	015	NOTE 1
143A	STAFF LAUNDRY	3' - 6"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	-	45 MIN	A	H.M. TIMELY	3/A8.1	2/A8.1	1/A8.1	011	NOTE 1
143B	AHU	2' - 6"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	-	-	A	H.M. TIMELY	3/A8.1	2/A8.1	1/A8.1	015	NOTE 1
143C	TRAINING	3' - 0"	6' - 8"	1 3/4"	SC WOOD	PRE-FIN	A	-	45 MIN	A	H.M. TIMELY	3/A8.1	2/A8.1	1/A8.1	010	-
144	STORAGE	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	-	-	A	HOLLOW METAL	10/A8.1	9/A8.1	8/A8.1	002	NOTE 1
145	ELECTRICAL ROOM	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	-	-	A	HOLLOW METAL	7/A8.1	6/A8.1	4/A8.1	002	NOTE 1
146	LOBBY	6' - 0"	7' - 0"	1 3/4"	ALUMINUM	PRE-FIN	D	FULL GLASS	-	B	ALUMINUM	18/A8.1	17/A8.1	16/A8.1	005	PAIR 3'-0" DOORS, CLEAR TEMPERED GLASS
147	FITNESS	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	HALF GLASS	45 MIN	A	HOLLOW METAL	10/A8.1	9/A8.1	8/A8.1	012	45 MIN. FIRE GLASS; NOTE 1
148A	REGISTRATION	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	-	-	A	H.M. TIMELY	3/A8.1	2/A8.1	1/A8.1	010	RETURN AIR LOUVER; NOTE 1
148B	REGISTRATION	8' - 0"	3' - 8"	1 3/4"	WOOD COIL	PRE-FIN	F	-	-	-	WOOD	12/A4.4	10/A4.4	-	-	ALL HARDWARE BY OVERHEAD DOOR MFR; NOTE 2
154	STORAGE	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	-	-	A	HOLLOW METAL	10/A8.1	9/A8.1	8/A8.1	015	NO LOCK; NOTE 1
SECOND FLOOR																
240	UTILITY ROOM	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	-	45 MIN	A	H.M. TIMELY	3/A8.1	2/A8.1	1/A8.1	008	NOTE 1
241	HALL	3' - 6"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	C	NONE	20 MIN	A	HOLLOW METAL	2/A6.3	3/A6.3	8/A8.1 SIM	021	20 MIN FIRE GLASS; WALL MAGNET TO BE TIED INTO FIRE ALARM SYSTEM; NOTE 1
THIRD FLOOR																
340	UTILITY ROOM	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	-	45 MIN	A	H.M. TIMELY	3/A8.1	2/A8.1	1/A8.1	008	NOTE 1
341	HALL	3' - 6"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	C	NONE	20 MIN	A	HOLLOW METAL	2/A6.3	3/A6.3	8/A8.1 SIM	021	20 MIN FIRE GLASS; WALL MAGNET TO BE TIED INTO FIRE ALARM SYSTEM; NOTE 1
FOURTH FLOOR																
440	UTILITY ROOM	3' - 0"	6' - 8"	1 3/4"	HOLLOW METAL	PAINT	C	-	45 MIN	A	H.M. TIMELY	3/A8.1	2/A8.1	1/A8.1	008	NOTE 1
441	HALL	3' - 6"	7' - 0"	1 3/4"	HOLLOW METAL	PAINT	C	NONE	20 MIN	A	HOLLOW METAL	2/A6.3	3/A6.3	8/A8.1 SIM	021	20 MIN FIRE GLASS; WALL MAGNET TO BE TIED INTO FIRE ALARM SYSTEM; NOTE 1

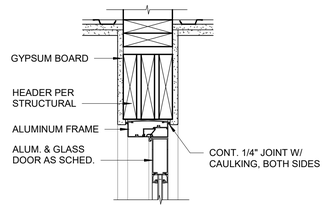
GENERAL NOTES:
1. DOOR AND FRAME TO BE PAINTED "BROWNTONE" TO MATCH GUESTROOM/CORRIDOR FRAME COLOR; REF SPECS
2. OVERHEAD DOOR AND FRAME TO BE PREFINISHED; REF ELEVATION FOR COLOR



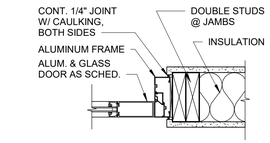
20 PHOTOLUMINESCENT DOOR SIGN
1/2" = 1'-0"



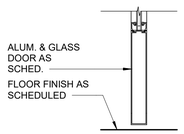
ELEVATION AT GUEST SUITE DOOR
19 1/2" = 1'-0"



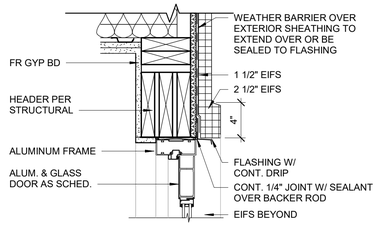
18 HEAD
1 1/2" = 1'-0"



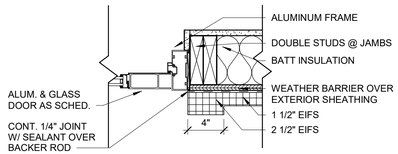
17 JAMB
1 1/2" = 1'-0"



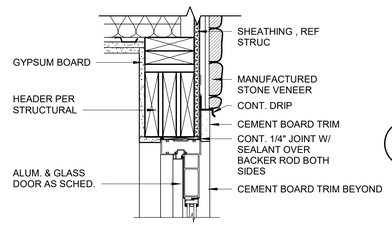
16 SILL
1 1/2" = 1'-0"



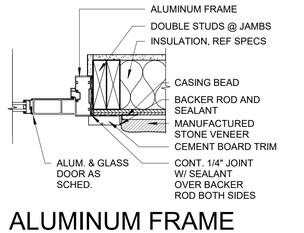
15 ALUMINUM FRAME HEAD - EIFS
1 1/2" = 1'-0" AT EXT WALL (SIM AT INT)



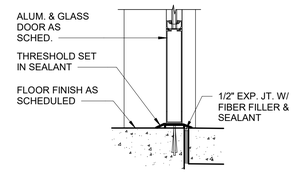
14 ALUMINUM FRAME JAMB - EIFS
1 1/2" = 1'-0" AT EXT WALL (SIM AT INT)



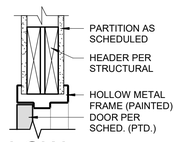
13 ALUMINUM FRAME HEAD - STONE
1 1/2" = 1'-0" AT EXT WALL (SIM AT INT)



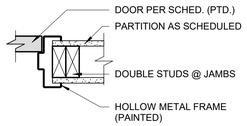
12 ALUMINUM FRAME JAMB - STONE
1 1/2" = 1'-0" AT EXT WALL (SIM AT INT)



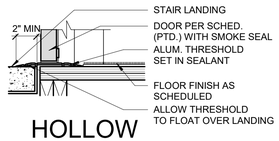
11 ALUMINUM FRAME SILL
1 1/2" = 1'-0" AT EXT WALL. (SIM AT INT)



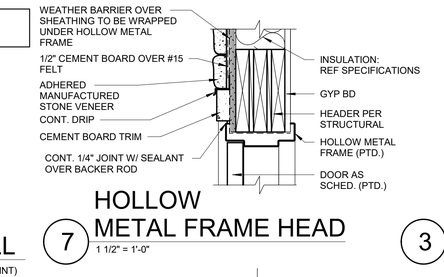
10 HOLLOW METAL FRAME HEAD
1 1/2" = 1'-0" AT INTERIOR WALL



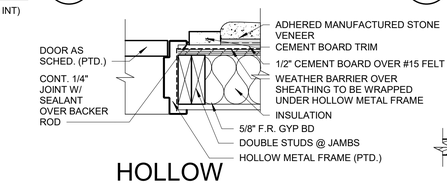
9 HOLLOW METAL FRAME JAMB
1 1/2" = 1'-0" AT INTERIOR WALL



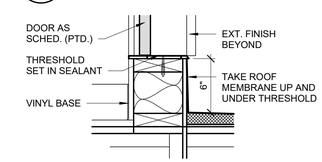
8 HOLLOW METAL FRAME SILL
1 1/2" = 1'-0" AT INTERIOR WALL



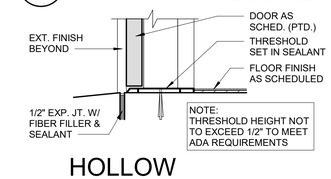
7 HOLLOW METAL FRAME HEAD
1 1/2" = 1'-0"



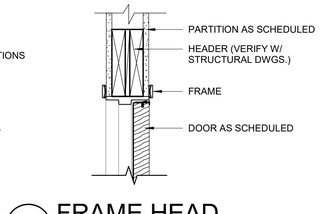
6 HOLLOW METAL FRAME JAMB
1 1/2" = 1'-0" AT EXTERIOR WALL



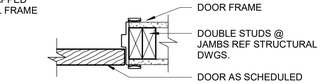
5 HOLLOW METAL FRAME SILL
1 1/2" = 1'-0" AT EXTERIOR WALL



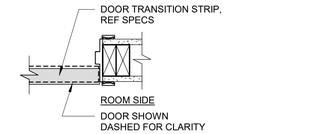
4 HOLLOW METAL FRAME SILL
1 1/2" = 1'-0" AT EXTERIOR WALL



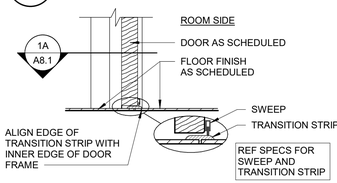
3 FRAME HEAD
1 1/2" = 1'-0" AT INTERIOR STUD



2 FRAME JAMB
1 1/2" = 1'-0" AT INTERIOR STUD



1A THRESHOLD
1 1/2" = 1'-0"



1 FRAME SILL
1 1/2" = 1'-0" AT INTERIOR DOOR

8/16/2023 12:50:57 PM

brr

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Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By:
JP
Checked By:
JL
Document Date:
08/16/23
Protocycle:
WSS_v5_2023.1 (05/05/23)
Bulletins Through:
WSS_v2_B08

Project No.

31000541

Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB ARCHITECT LICENSE NO. 2022000409

BRR ARCHITECTURE, INC. ARCHITECTURAL CORPORATION MISSOURI LICENSE NO. ARC 000160

Sheet Title

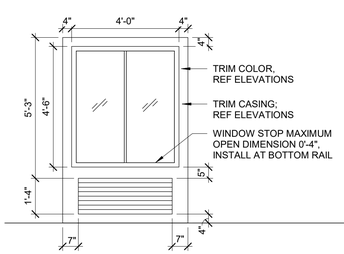
DOOR SCHEDULE & DOOR DETAILS

Sheet No.

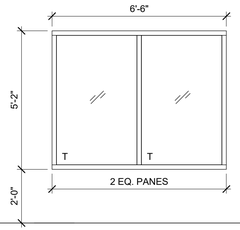
A8.1

BRR Original printed on recycled paper

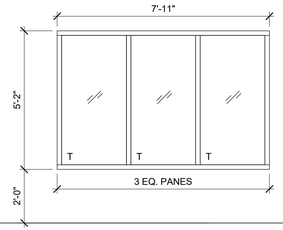
TYPE "A"
VINYL



TYPE "B"
ALUMINUM



TYPE "C"
ALUMINUM



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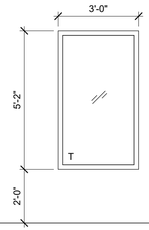
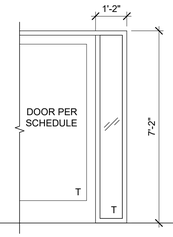
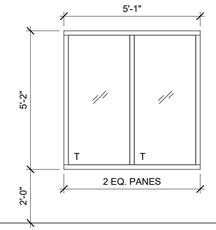


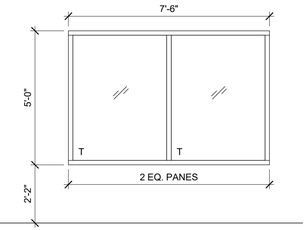
TYPE "E"
ALUMINUM



TYPE "F"
ALUMINUM



TYPE "G"
ALUMINUM

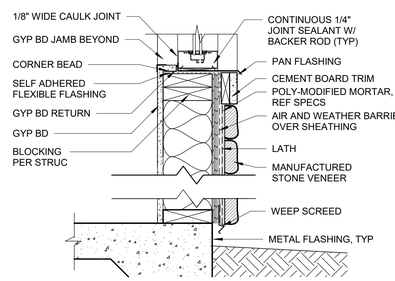


WINDOW SCHEDULE

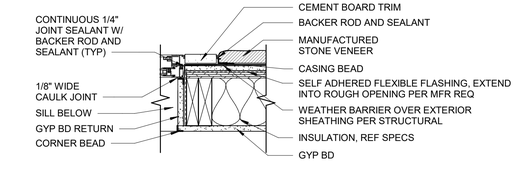
TYPE	DESCRIPTION	LOCATION	FRAME MATERIAL	WINDOW NOTES
A	HORIZONTAL SLIDER	TYPICAL GUESTROOM	VINYL	WINDOW STOP REQUIRED; SEE NOTE 1
B	FIXED STOREFRONT	LOBBY	ALUMINUM	TEMPERED
C	FIXED STOREFRONT	VESTIBULE	ALUMINUM	TEMPERED
D	FIXED STOREFRONT	VESTIBULE	ALUMINUM	TEMPERED
E	FIXED STOREFRONT	LOBBY, VESTIBULE & HALL / VENDING	ALUMINUM	TEMPERED
F	FIXED STOREFRONT	TRAINING	ALUMINUM	TEMPERED
G	FIXED STOREFRONT	LOBBY	ALUMINUM	TEMPERED

WINDOW NOTES:
1. WINDOW STOP
   BRAND: HD SUPPLY
   PRODUCT: 2" ALUMINUM SLIDING DOOR AND WINDOW LOCK
   PART #: 876675
   SUPPLIER: HD SUPPLY
   CONTACT: 1-800-431-3000
   HDSUPPYSOLUTIONS.COM
2. ALL ALUMINUM STOREFRONT FRAMES TO BE CLEAR ANODIZED
3. REFERENCE SPECIFICATIONS FOR ADDITIONAL WINDOW INSULATION/R-VALUE REQUIREMENT INFORMATION

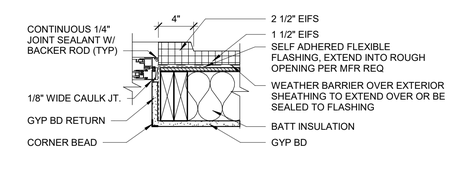
12 LITE SECTION
3" = 1'-0"



9 ALUMINUM WINDOW SILL - STONE
1 1/2" = 1'-0"

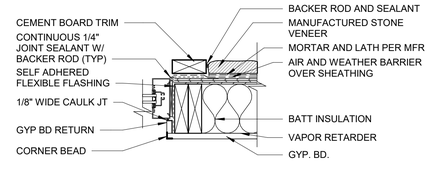


6 VINYL WINDOW JAMB - STONE
1 1/2" = 1'-0"

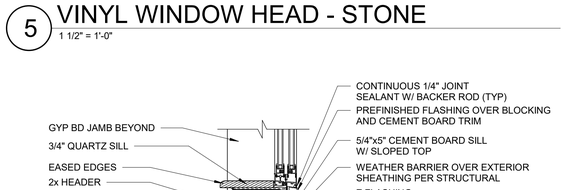


3 VINYL WINDOW JAMB - EIFS
1 1/2" = 1'-0"

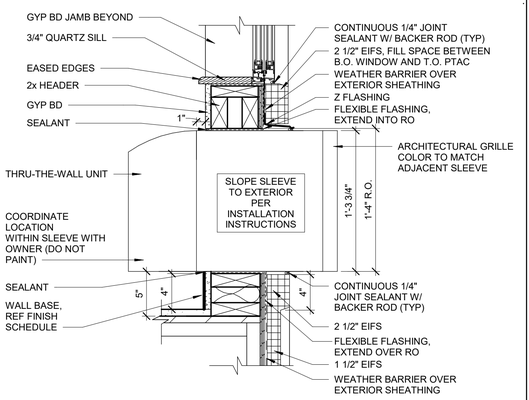
11 ALUMINUM WINDOW JAMB - EIFS
1 1/2" = 1'-0"



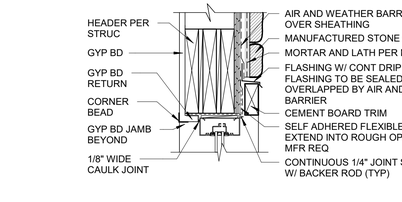
8 ALUMINUM WINDOW JAMB - STONE
1 1/2" = 1'-0"



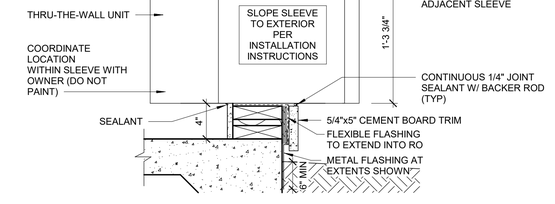
5 VINYL WINDOW HEAD - STONE
1 1/2" = 1'-0"



2 VINYL WINDOW HEAD - EIFS
1 1/2" = 1'-0"



10 ALUMINUM WINDOW HEAD - EIFS
1 1/2" = 1'-0"



7 ALUMINUM WINDOW HEAD - STONE
1 1/2" = 1'-0"

4 VINYL WINDOW SILL - STONE
1 1/2" = 1'-0"

1 VINYL WINDOW SILL - EIFS
1 1/2" = 1'-0"

8/16/2023 12:50:59 PM

brr

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OVERLAND PARK, KS 66204

www.brrarch.com

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Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By: JP
Checked By: JL
Document Date: 08/16/23
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_808
Project No. 31000541
Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

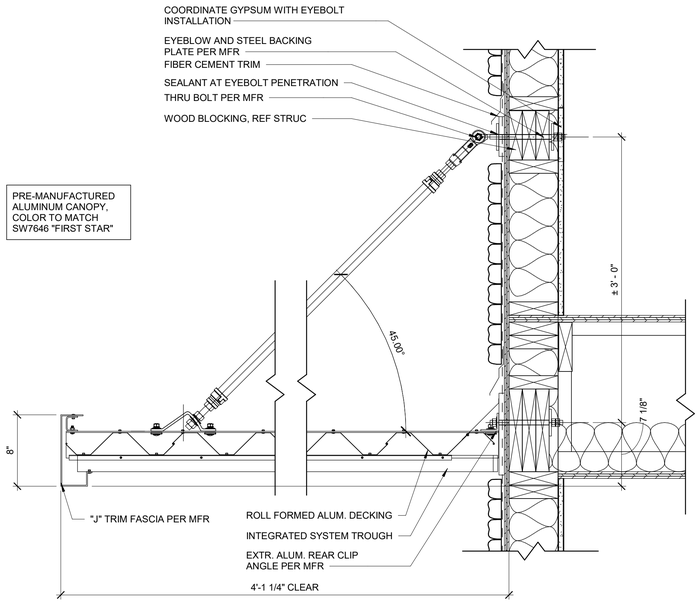
TREVOR TYSON HOLCOMB ARCHITECT LICENSE NO. 2022000409

BRR ARCHITECTURE, INC. ARCHITECTURAL CORPORATION MISSOURI LICENSE NO. ARC 000160

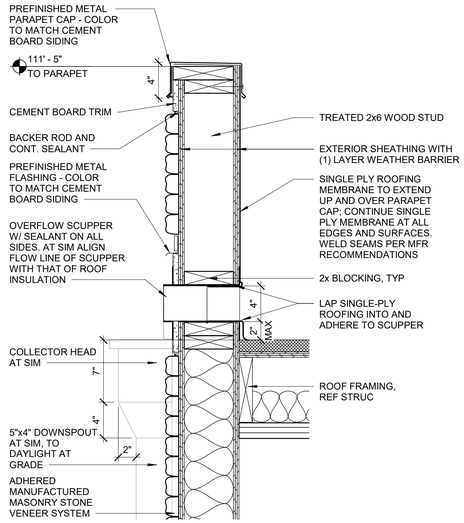
Sheet Title
WINDOW SCHEDULE, ELEVATIONS & DETAILS

Sheet No.
A8.2

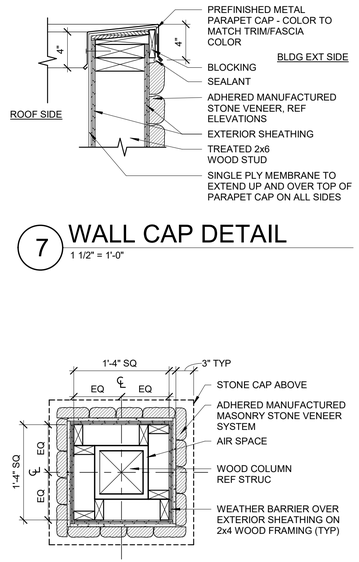
BRR Original printed on recycled paper



6 REAR CANOPY DETAIL
1 1/2" = 1'-0"

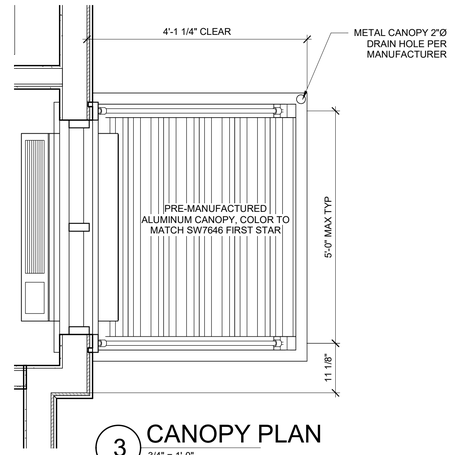


8 OVERFLOW SCUPPER DETAIL AT CANOPY
1 1/2" = 1'-0"

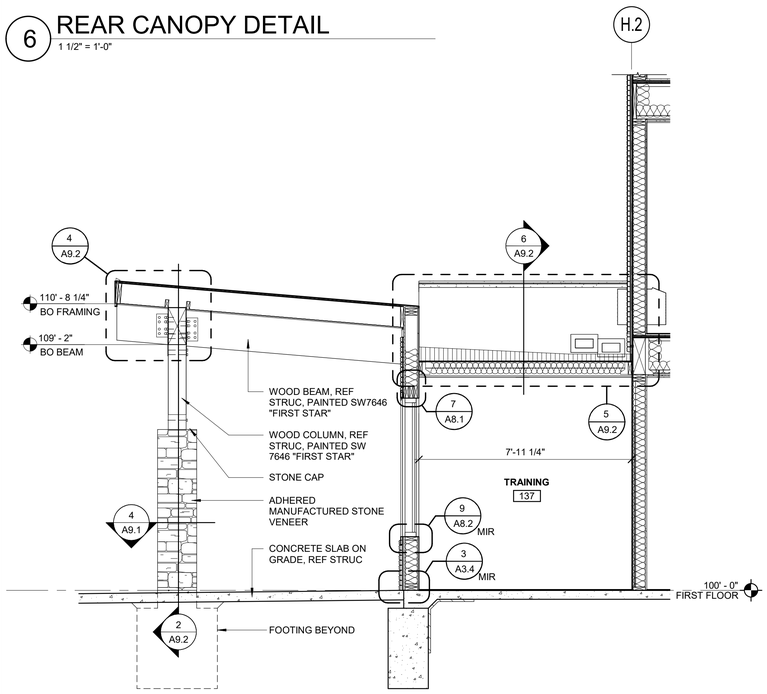


7 WALL CAP DETAIL
1 1/2" = 1'-0"

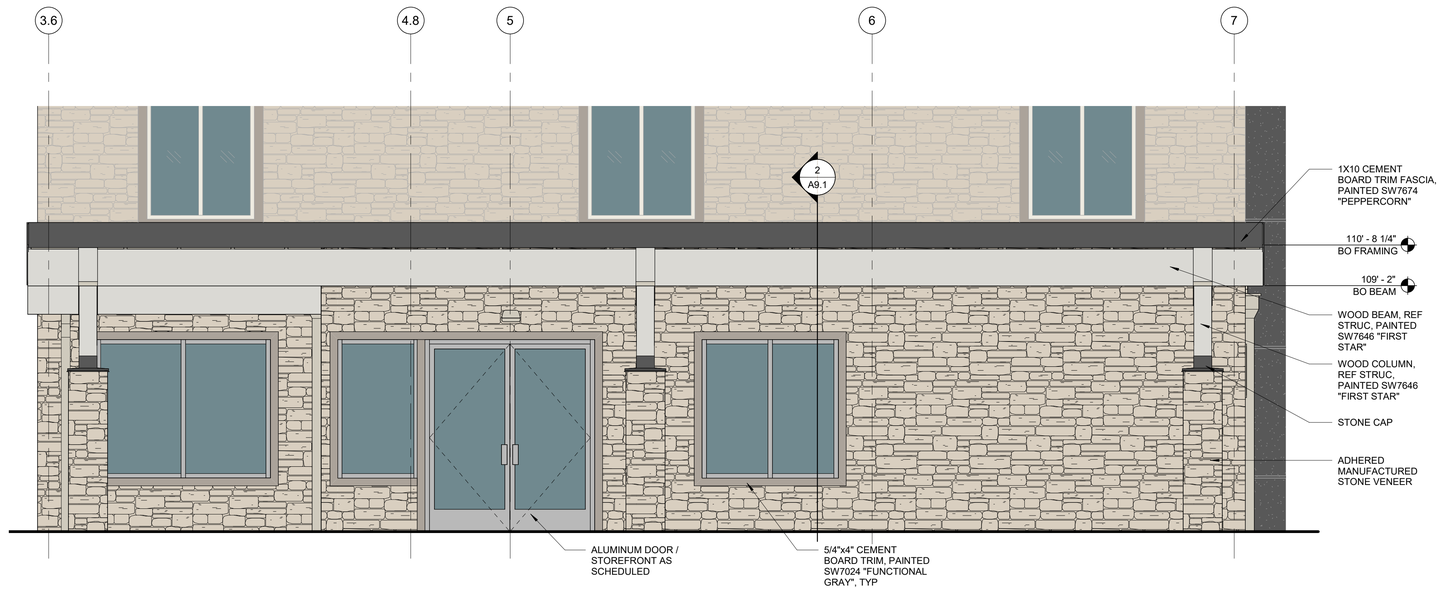
4 ENTRY COLUMN DETAIL
1" = 1'-0"



3 CANOPY PLAN
3/4" = 1'-0"



2 FRONT CANOPY SECTION
3/8" = 1'-0"



1 FRONT CANOPY ELEVATION
3/8" = 1'-0"

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brr

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BRR Architecture, Inc.

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OVERLAND PARK, KS 66204

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Consultants

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Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB ARCHITECT
LICENSE NO. 2022000409

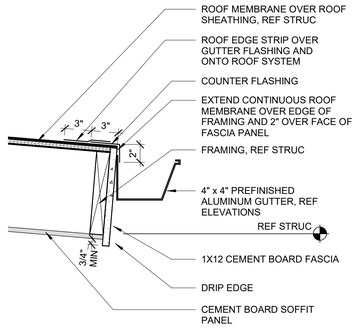
BRR ARCHITECTURE, INC. ARCHITECTURAL CORPORATION MISSOURI LICENSE NO. ARC 000160

Sheet Title

ENLARGED CANOPY PLANS & SECTIONS

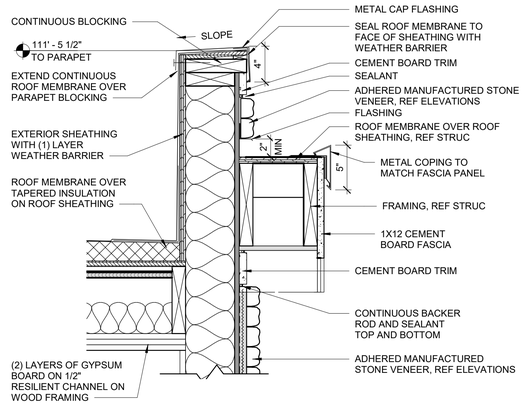
Sheet No.

A9.1



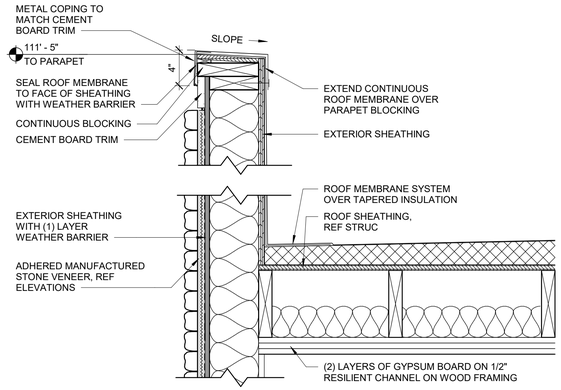
8 GUTTER DETAIL

1 1/2" = 1'-0"



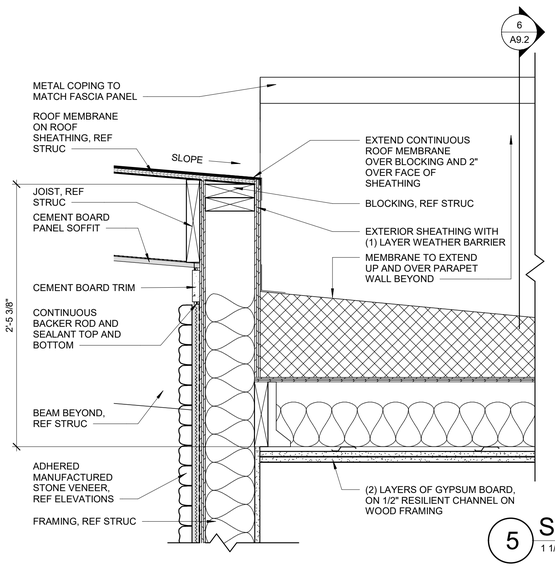
7 CANOPY EDGE DETAIL

1 1/2" = 1'-0"



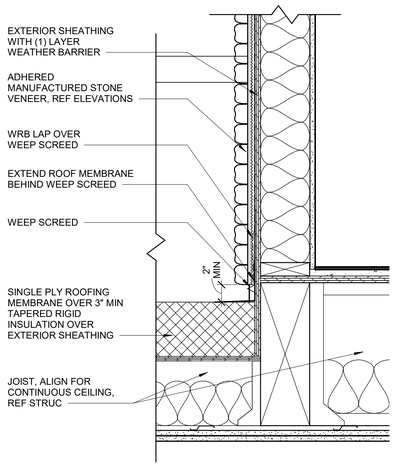
6 PARAPET DETAIL

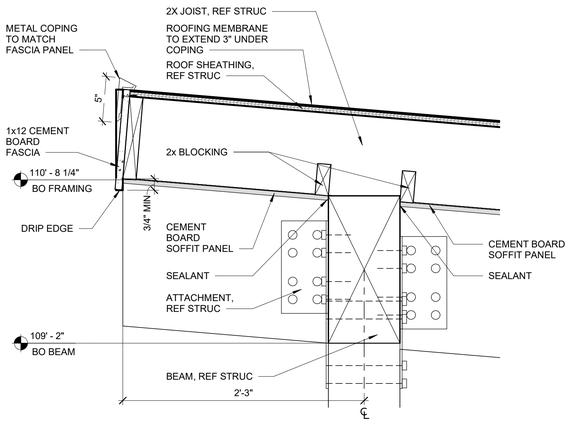
1 1/2" = 1'-0"



5 SECTION AT CANOPY

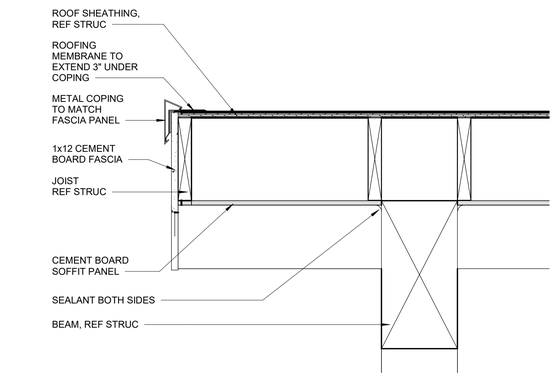
1 1/2" = 1'-0"





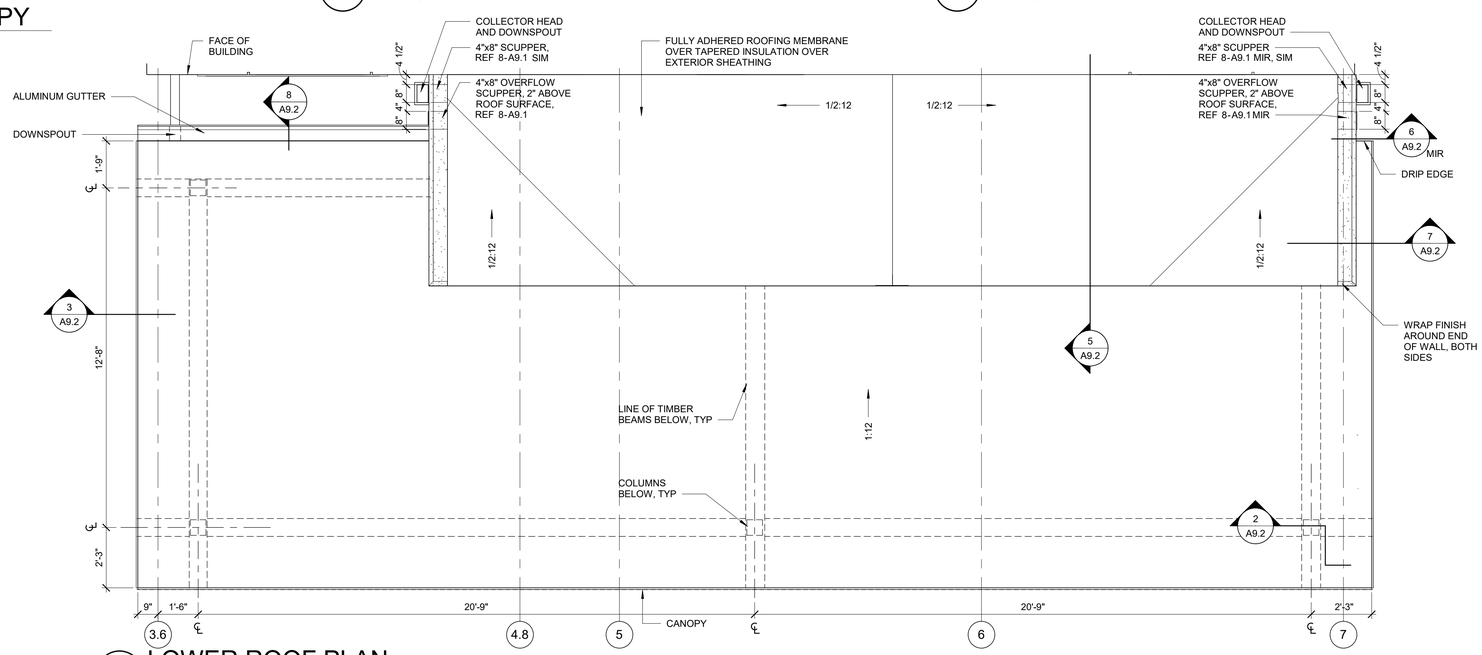
4 CANOPY EDGE DETAIL

1 1/2" = 1'-0"



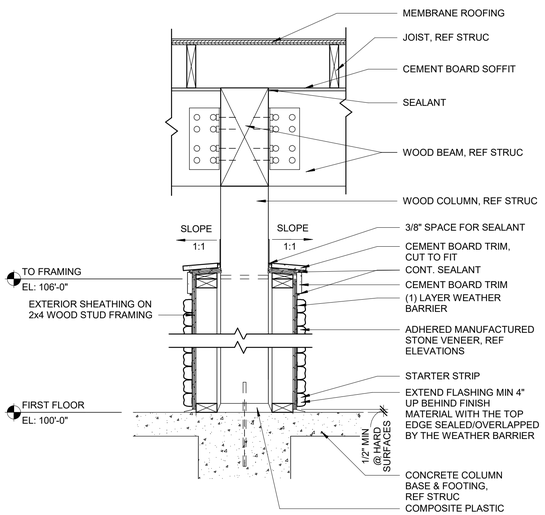
3 CANOPY EDGE DETAIL

1 1/2" = 1'-0"



1 LOWER ROOF PLAN

3/8" = 1'-0"



2 ENTRY COLUMN SECTION

1" = 1'-0"

8/16/2023 12:51:02 PM

brr

Architect of Record:
BRR Architecture, Inc.

8131 METCALF AVE, SUITE 300
OVERLAND PARK, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By:
JP
Checked By:
JL
Document Date:
08/16/23
Protocycle:
WSS_v5_2023.1 (05/05/23)
Bulletins Through:
WSS_v2_B08

Project No.

31000541

Professional Seal

STATE OF MISSOURI
TREVOR TYSON HOLCOMB
NUMBER A-2022000409
ARCHITECT

08/17/2023

TREVOR TYSON HOLCOMB ARCHITECT LICENSE NO. 2022000409

BRR ARCHITECTURE, INC. ARCHITECTURAL CORPORATION MISSOURI LICENSE NO. ARC 000160

Sheet Title

CANOPY DETAILS

Sheet No.

A9.2

UL Product iQ™

BXUV.U301 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the articular re uire ents covering the installation and use of UL Certified roducts, e ui ent, syste , devices, and aterials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance asse blies and roducts are develo ed by the design sub itter and have been investigated by UL for co liance with a licable re uire ents. The ublished infor ation cannot always address every construction nuance encountered in the field.
- When field issues arise, it is reco ended the first contact for assistance be the technical service staff rovided by the roduct anufacturer noted for the design. Users of fire resistance asse blies are advised to consult the general Guide Infor ation for each roduct category and each grou of asse blies. The Guide Infor ation includes s ecifics concerning alternate aterials and alternate ethods of construction.
- Only roducts which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Infor ation for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Infor ation for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

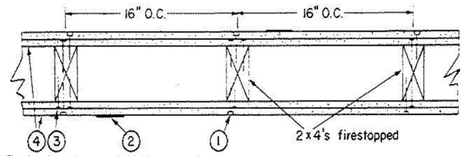
Design No. **U301**

February 14, 2022

Bearing Wall Rating — 2 Hr.
Finish Rating — 66 Min.
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

DETAIL 1 - WALL ASSEMBLY
UL DESIGN NO. U301
INTERIOR BEARING WALLS
FIRE RATING - 2 HOUR



1. **Nailheads —** Exposed or covered with joint compound.

2. **Joints —** Exposed joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape.

3. **Nails —** 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam, 1/4 in. diam heads, and 8d cement coated nails 2-3/8 in. long, 0.113 in. shank diam, 9/32 in. diam heads.

4. **Gypsum Board* —** 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
When used in widths other than 48 in., gypsum board to be installed horizontally.

When **Steel Framing Members*** (Item 6 or any alternate clips) are used, base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced max 24 in. OC; face layer attached with 1-5/8 in. long Type S bugle-head steel screws spaced max 12 in. OC.

AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, AGX-11, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, GlasRoc-2, Type C, Type X, Type X-1

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX, CLLX

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, TG-C, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, GreenGlass Type X, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-B, FSW-C, FSW-G, FSMR-C, FSL, RSX

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2, PG-3, PG-3W, PG-4, PG-5, PG-5W, PG-5WS, PG-9, PG-11, PG-C, PGS-WRS, PGI

PANEL REY S A — Types PRC, PRC2, PRX, RHX, MDX, ETX, GREX, GRIX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type C or Type X

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

4A. **Gypsum Board* —** (As an alternate to Item 4) **—** Nom 3/4 in. thick, installed as described in Item 4.
CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

4B. **Gypsum Board* —** (As an alternate to Items 4 and 4A) **—** 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 4. Joint covering (Item 2) not required.
CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type SHX

USG MEXICO S A DE C V — Type SHX

4C. **Gypsum Board* —** (As an alternate to Items 4, 4A or 4B **—** Not Shown) **—** For Direct Application to Studs Only- For use on one or both sides of the wall as the base layer or one or both sides of the wall as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, F4J.one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
RAY-BAR ENGINEERING CORP — Type RB-LBG.

4D. **Gypsum Board* —** As an Alternate to Item 4 **—** 5/8 in. thick applied either horizontally or vertically. Inner layers fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Outer layers fastened to framing with 1-7/8 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

4E. **Gypsum Board* —** (As an alternate to Items 4 through 4D) **—** 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically and secured as described in Item 4.
GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board

4F. **Gypsum Board* —** (As an alternate to Item 4) **—** Not to be used with item 6, 6A, 6B or 6C. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically and secured as described in Item 4.
NATIONAL GYPSUM CO — Type SBWB

4G. **Gypsum Board * —** (As an alternate to Items 4 through 4F) **—** Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types QuietRock ES

4H. **Gypsum Board* —** (As an alternate to Item 4) **—** Not to be used with item 6, 6A, 6B, or 6C. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally and secured as described in Item 4.
CERTAINTEED GYPSUM INC — Type SilentFX

4I. **Gypsum Board* —** (As an alternate to Item 4) **—** 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 1-1/4 in. long Type W steel screws spaced 8 in. OC. Outer layer attached to studs over inner layer with 2 in. long Type W steel screws spaced 8 in. OC offset 6 in. from base layer. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, screwheads covered with joint compound. As an alternate to the joint compound nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Wallboard other than 48 in. wide must be applied horizontally. The SoundBreak XP Type X Gypsum Board is not to be used with Item 6, 6A, 6B, or 6C.
NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-C, FSW-G, FSMR-C, SBWB

4J. **Gypsum Board* —** (As an alternate to Items 4) **—** For Direct Application to Studs Only- For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

4K. **Gypsum Board* —** For use with Item 7 **—** 5/8 in. thick, two layers applied vertically. Inner layer attached to resilient channels with 1 in. long steel screws spaced 8 in. OC. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. Insulation, Items 8 or 9 is required.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, AGX-11

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-C, FSW-G, FSMR-C, SBWB.

4L. **Gypsum Board* —** (As an alternate to Items 4) **—** For Direct Application to Studs Only- For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick, compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4M. **Gypsum Board* —** (As an alternate to Item 4) **—** 5/8 in. thick, 4 ft. wide, two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 4.
CERTAINTEED GYPSUM INC — 5/8" Easi-Lite Type X

4N. **Gypsum Board* —** (As an alternate to 5/8 in. Type FSW in Items 4 or 4I) **—** Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 4 or 4I. Horizontal joints on the same side need not be staggered. Inner layer of each double 5/16 in. layer attached with fasteners, as described in item 4 or 4I, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 4 or 4I.
NATIONAL GYPSUM CO — Type FSW

4O. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 4 through 4N) **—** Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527

4P. **Gypsum Board* —** (As an alternate to Item 4) **—** 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 1-1/4 in. long Type W steel screws spaced 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. Outer layer attached to studs over inner layer with 1-7/8 in. long Type W steel screws spaced 10 in. OC offset 5 in. from base layer with the last two screws 4 and 1 in. from the edges of the board. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, screwheads covered with joint compound. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
CERTAINTEED GYPSUM INC — Type LGFC6A, Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

4Q. **Gypsum Board* —** (As an alternate to Item 4. For use with Item 13) **—** Any 5/8 in. thick, 4 ft. wide. Gypsum Board UL Classified for Fire Resistance (CKNX) eligible for use in Design Nos. U305 and L501 or G512. Two layers, applied either horizontally or vertically and screwed to studs with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. For the face layer, screw length to be increased to 2-1/2 in. All joints in face layers staggered with joints in base layers. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

4R. **Gypsum Board* —** As an Alternate to Item 4 **—** 5/8 in. thick applied either horizontally or vertically. Inner layers fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Outer layers fastened to framing with 1-7/8 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, GlasRoc-2, Type C, Type X, Type X-1, Easi-Lite Type X, SilentFX

4S. **Gypsum Board* —** (As an alternate to Item 4. For use with Item 13A) **—** 5/8 in. thick, two layers applied vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
AMERICAN GYPSUM CO — Types AGX-1

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — "5/8 Type X"

CERTAINTEED GYPSUM INC — Type X

CGC INC — Type SCX

PANEL REY S A — Type PRX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X

UNITED STATES GYPSUM CO — Type SCX

USG BORAL DRYWALL SFZ LLC — Types SCX

USG MEXICO S A DE C V — Type SCX

4T. **Gypsum Board* —** (As an alternate to Item 4. For use with Item 13B) **—** Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. All joints in outer layers staggered with joints in inner layers. Inner layer attached to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Outer layer attached to studs over inner layer with the 2-1/2 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC.

5. **Molded Plastic* —** Not Shown, Optional **—** Solid vinyl siding mechanically secured over the outer layer to framing members in accordance with manufacturer's recommended installation details.
ALSIDE, DIV OF ASSOCIATED MATERIALS INC

GENTEK BUILDING PRODUCTS LTD

VYTEC CORP

6. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
A. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Wallboard attached to furring channels as described in Item 4.

B. **Steel Framing Members* —** Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

6A. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
A. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

B. **Steel Framing Members* —** Used to attach furring channels (Item 6Aa) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

6B. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
A. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Bb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

B. **Steel Framing Members* —** Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC., and secured to studs with 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

REGUPOL AMERICA — Type SonusClip

6C. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) —Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

6D. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) **—** Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 24 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.
PAC INTERNATIONAL L L C — Type RC-1 Boost

6E **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) **—** Furring channels and Steel Framing Members as described below:
a **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 4.

b **Steel Framing Members* —** Used to attach furring channels (Item 6Ea) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

7. **Furring Channel —** Optional **—** Not Shown **—** For use on one side of the wall with Item 4K **—** Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Item 8 or 9 is required.

8. **Batts and Blankets* —** Required for use with resilient channels, Item 7, min. 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the nom 4 in. face of the studs with staples placed 24 in. OC.
ROCKWOOL — Type SAFEnSOUND

THERMAFIBER INC — Type SAFB, SAFB FF

9. **Batts and Blankets* —** (As an alternate to Item 8) **—** Min. 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the stud cavities. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

9A. **Fiber, Sprayed* —** (Optional) **—** As an alternate to Batts and Blankets (Item 8), Required for use with resilient channels, Item 7, Not for use with Item 6, 6A, 6B, or 6C. **—** Spray applied mineral wool insulation. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

10. **Wall and Partition Facings and Accessories* —** (Optional, Not Shown) **—** Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 or QR-510

11. **Cementitious Backer Units* —** (Optional Item Not Shown **—** For Use On Face Of 2 Hr Systems With All Standard Items Required) **—** 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied horizontally or vertically with vertical joints centered over studs. Face layer fastened over gypsum board to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC.
NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

12. **Wall and Partition Facings and Accessories* —** (Optional, Not Shown) **-** When the Wall Assembly is used as an External Wall, on the External side of the wall one of the following Wall and Partition and Facing Accessories may be used, refer to items (A) to (C) below.
A. **Non Insulated system with metal channels —** Install moisture barrier over the Gypsum Board Item 4 and Install Acry Metal Channels vertically at a horizontal spacing not greater than 24 inches OC., over the moisture barrier. Acry Metal Channels attached through the moisture barrier and the Gypsum Board to the Wood Studs using fasteners specified by the manufacturer and fasteners spaced max., 24 in. OC. Install Acrytec Panels on Acry Metal Channels using 1-1/4" long corrosion coated stainless steel screws spaced at a max spacing of 24 inches OC, along with manufacturer's approved adhesive (3M 540 or Tremco Vulcum 116). Adhesive to be applied in a zigzag pattern along every channel. Joint treatment in between panels shall be Tremco illmod 600 pre compressed polyurethane foam sealant.

B. **Insulated system with metal channels —** Install moisture barrier over the Gypsum Board Item 4. Install galvanized Z girt channels specified by the manufacturer over the moisture barrier and the Gypsum Board Item 4. Z girt channels to be installed horizontally at a max. spacing of 24" OC. Z girt channels attached through the Gypsum Board and the moisture barrier to the wood studs with screws provided by the manufacturer at a max spacing of 24 inches OC. Install mineral wool insulation between the Z girts. Maximum thickness of mineral wool insulation not to exceed 6 in. As per manufacturer's instructions install Acry Metal Channels vertically over the Z girts at a max horizontal spacing of 24 in. OC. Acrytec Panels installed on Acry channel with 1-1/4" long corrosion coated stainless steel screws at a max spacing of 24 in. OC, along with manufacturers approved adhesive (3M 540 or Tremco Vulcum 116). Adhesive to be applied in a zigzag pattern along every channel. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

C. **Non insulated wood strapping system —** Install moisture barrier over the Gypsum Board Item 4 and Install 1" x 3" wood strapping vertically at a horizontal spacing not greater than 24 inches OC., over the moisture barrier. 1" x 3" wood strapping attached through the moisture barrier and the Gypsum Board to the Wood studs using fasteners specified by the manufacturer and fasteners spaced max., 24 in. OC. Acrytec Panels to be installed on the 1" x 3" wood strapping using manufacturers approved stainless steel fasteners spaced at maximum 24 inches OC along with Tremco Vulcum 116 adhesive applied in a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

D. **Insulated Wood Strapping System —** Install moisture barrier over the Gypsum Board Item 4. Install Extruded Polystyrene Insulation over moisture barrier and the Gypsum Board Item 4, max thickness of insulation not to exceed 4 inches. Install 1" x 3" wood strapping vertically at a horizontal spacing not greater than 24 inches OC. Wood strapping attached through the Insulation, the Gypsum Board and moisture barrier to the Wood Studs using fasteners specified by the manufacturer and fasteners spaced max. 24 in. OC. Acrytec Panels to be installed over the wood strapping using manufacturers approved stainless steel fasteners at a max spacing of 24 in. OC and Tremco Vulcum 116 adhesive applied in a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco illmod 600 pre compressed polyurethane foam sealant.

ACRYTEC PANEL INDUSTRIES — Nominal 5/8 inch thick Acrytec Panel.

13. **Foamed Plastic* —** (Optional, Not Shown **-** For use with Item 4Q) **—** Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
SES FOAM INC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam. For use in Bearing and Non-Load Bearing Walls.

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brr
Architect of Record:
BRR Architecture, Inc.

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OVERLAND PARK, KS 66204

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Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By:
Author
Checked By:
JL
Document Date:
08/16/23
Protocycle:
WSS_v5_2023.1 (05/05/23)
Bulletins Through:
WSS_v2_B08

Project No.
31000541

Professional Seal

FOR REFERENCE ONLY

Sheet Title
FIRE RATED ASSEMBLIES

Sheet No.
A10.1

BRR Original printed on recycled paper

13A. **Foamed Plastic* —** (Optional, Not Shown - For use with Item 4S) **—** Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
GACO WESTERN L L C — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 183M.

13B. **Foamed Plastic* —** (Optional, Not Shown - For use with Item 4T) **—** Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

14. **Foamed Plastic* —** (Optional, Not Shown - For use over Gypsum Board, Item 4) - Polyisocyanurate foamed plastic boards, any thickness applied vertically with vertical joints located over studs. May be used with Molded Plastic, Item 5 or any exterior facing, as authorized by the Authority Having Jurisdiction and installed in accordance with the manufacturer's installation instructions.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci Class A", "Xci 286", "Xci Foil (Class A)", "Xci CG", "Xci Foil", "Xci CG NH", "Xci Foil NH"

15. **Building Units* —** (Optional, Not Shown - For use over Gypsum Board, Item 4) Polyisocyanurate composite foamed plastic boards, any thickness, applied vertically with vertical joints located over studs. May be used with Molded Plastic, Item 5 or any exterior facing, as authorized by the Authority Having Jurisdiction and installed in accordance with the manufacturer's installation instructions.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2022-02-14

UL Product iQ™

BXUV.U305 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

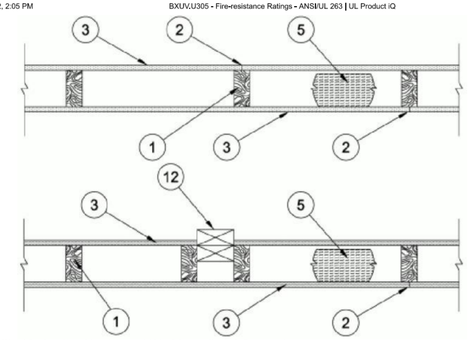
Design No. **U305**

February 14, 2022

Bearing Wall Rating — 1 Hr
Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L.
STC Rating - 56 (See Item 9)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

DETAIL 2 - WALL ASSEMBLY
UL DESIGN NO. U305
INTERIOR BEARING WALL
FIRE RATING - 1 HOUR
1/12



1. **Wood Studs —** Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped.

2. **Joints and Nail-Heads —** Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.

3. **Gypsum Board* —** 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6F. **Steel Framing Members***.
When Items 6, 6B, 6C, 6D, 6E, or 6F, **Steel Framing Members***, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 6A, **Steel Framing Members***, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.

When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

AMERICAN GYPSUM CO — Types AGX-1(finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish rating 24 min)

CABOT MANUFACTURING ULC — Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min).

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min), Type ULIX (finish rating 20 min)

CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLLX (finish rating 24 min)

GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min), Type RSX (finish rating 26 min).

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), Type PG-C or PGI (finish rating 26 min)

PANEL REY S A — Type ARX, GREX, GRIX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min), PRX2 (finish rating 21 min)

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

THAI GYPSUM PRODUCTS PCL — Type C, Type X (finish rating 26 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULIX (finish rating 20 min)

USG BORAL DRYWALL SFZ LLC — Type SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

AMERICAN GYPSUM CO — Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LighttRoc (finish rating 25 min.)

CERTAINTEED GYPSUM INC — Type C, Type X, Type X-1 (finish rating 26 min), Type EGRG or GlasRoc.

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

NATIONAL GYPSUM CO — Type FSW (finish rating 24 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type FRX-G (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

3B. **Gypsum Board* —** (As an alternate to Item 3) **—** Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A.
CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

3C. **Gypsum Board* —** (As an alternate to Items 3, 3A and 3B) **—** 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-1/4 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.
CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type SHX

USG MEXICO S A DE C V — Type SHX

3D. **Gypsum Board* —** (As an alternate to Items 3, 3A, 3B, or 3C **—** Not Shown) **—** For Direct Application to Studs Only - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RAY-BAR ENGINEERING CORP — Type RB-LBG (finish rating 24 min)

3E. **Gypsum Board* —** (As an alternate to Items 3, 3A, 3B, 3C, and 3D) **—** 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel

screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.
GEORGIA-PACIFIC GYPSUM L L C — Type DGG (finish rating 20 min), GreenGlass Type X (finish rating 23 min)

3F. **Gypsum Board* —** (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) **—** 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 7 inch OC thereafter.
CGC INC — Type USGX (finish rating 22 min)

UNITED STATES GYPSUM CO — Type USGX (finish rating 22 min.)

USG BORAL DRYWALL SFZ LLC — , Type USGX (finish rating 22 min.)

USG MEXICO S A DE C V — Type USGX (finish rating 22 min.)

3G. **Gypsum Board* —** (As an alternate to Items 3 through 3F) **—** 5/8 in. thick paper surfaced applied vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.
GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min)

3H. **Gypsum Board* —** (As an alternate to Items 3) **—** Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.
NATIONAL GYPSUM CO — Type SBWB

3I. **Gypsum Board* —** (As an alternate to Items 3 through 3H, Not Shown) **—** Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES (finish rating 20 min)

3J. **Gypsum Board* —** (As an alternate to Item 3) **—** 5/8 in. thick paper surfaced applied vertically or horizontally. Gypsum panels secured with 1-1/4 in. Type W coarse thread gypsum panel steel screws spaced a maximum of 12 in. OC.
CERTAINTEED GYPSUM INC — Type SilentFX

3K. **Gypsum Board* —** (As an alternate to Item 3) **—** 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 8 in. OC with the last screw 1 in. from the edge of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min).

3L. **Gypsum Board* —** (As an alternate to Item 3) **—** For Direct Application to Studs Only **—** Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick. compression fitted or adhered over the screw heads. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".
MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

3M. **Gypsum Board* —** (As an alternate to Items 3) **—** For Direct Application to Studs Only **—** For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse

thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

3N. **Gypsum Board* —** (As an alternate to Item 3) **—** 5/8 in. thick, 4 ft. wide, applied horizontally or vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3 or 3A.
CERTAINTEED GYPSUM INC — EasiLite Type X (finish rating 24 min), EasiLite Type X-2 (finish rating 24 min)

3O. **Wall and Partition Facings and Accessories* —** (As an alternate to Item 3, Not Shown) **—** Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527 (finish rating 24 min).

3P. **Gypsum Board* —** (As an alternate to Item 3, Not Shown) **—** Two layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by wood studs. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gypsum panels fastened to studs with 1-1/4 in. long drywall nails spaced 8 in. OC. Face layer gypsum panels fastened to studs with 1-7/8 in. long drywall nails spaced 8 in. OC starting with a 4" stagger.
NATIONAL GYPSUM CO — Type FSW (finish rating 25 min)

3Q. **Gypsum Board* —** (As an alternate to Item 3) **—** 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

3R. **Gypsum Board* —** (As an alternate to Item 3. For use with Item 5H) **—** Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied either horizontally or vertically, and screwed to panels with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

3S. **Gypsum Board* —** 3/4 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels secured as described in Item 3 with nail length increased to 2 in.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

3T. **Wall and Partition Facings and Accessories* —** (As an alternate to 5/8 in. thick board as outlined in Item 3) **—** Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

3U. **Gypsum Board* —** (As an alternate to Item 3 - For use with Foamed Plastic products, Item 5J) **—** 5/8 in. thick, 4 ft. wide, applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.
AMERICAN GYPSUM CO — Types AGX-1

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X

CERTAINTEED GYPSUM INC — Type X

CGC INC — Type SCX

PANEL REY S A — Type ARX, PRX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X

UNITED STATES GYPSUM CO — Types SCX and SGX

USG BORAL DRYWALL SFZ LLC — Types SCX and SGX

USG MEXICO S A DE C V — Type SCX

3V. **Gypsum Board* —** (As an alternate to Item 3. For use with Item 5K) **—** Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field.

4. **Steel Corner Fasteners —** (Optional) **—** For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. **Batts and Blankets* —** (Optional **—** Required when Item 6A is used (RC-1)) **—** Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.
CERTAINTEED CORP

JOHNS MANVILLE

KNAUF INSULATION LLC

MANSON INSULATION INC

ROCKWOOL — Types Acoustical Fire Batts and Type AFB, min. density 1.69 pcf / 27.0 kg/m^3

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

ROCK WOOL MANUFACTURING CO — Delta Board

THERMAFIBER INC — Type SAFB, SAFB FF

5A. **Fiber, Sprayed* —** (Not Shown **—** Not for use with Item 6) **—** As an alternate to Batts and Blankets (Item 5) **—** Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product. When Item 6B is used, Fiber, Sprayed shall be INS735, INS745, INS750LD, INS765LD, INS773LD or SANCTUARY.

8/16/2023 12:51:02 PM

brr

Architect of Record:
BRR Architecture, Inc.

8131 METCALF AVE, SUITE 300
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Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By:
Author
Checked By:
JL
Document Date:
08/16/23
Protocycle:
WSS_v5_2023.1 (05/05/23)
Bulletins Through:
WSS_v2_B08

Project No.

31000541

Professional Seal

FOR REFERENCE ONLY

Sheet Title

FIRE RATED ASSEMBLIES

Sheet No.

A10.2

BRR Original printed on recycled paper

U S GREENFIBER L L C — INS735, INS745, INS750LD and SANCTUARY for use with wet or dry application. INS515LD, INS541LD, INS735, INS765LD, and INS773LD are to be used for dry application only

5B. **Fiber, Sprayed* —** (Not Shown - Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

5C. **Batts and Blankets* —** Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior of wall.
THERMAFIBER INC — Type SAFB, SAFB FF

5D. **Glass Fiber Insulation —** (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

5E. **Batts and Blankets* —** (Required for use with Wall and Partition Facings and Accessories, Item 3D) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

5F. **Fiber, Sprayed* —** (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5G. **Fiber, Sprayed* —** (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D). — As an alternate to Batts and Blankets (Item 5) and Item 5A - Brown Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

5H. **Foamed Plastic* —** (Optional -For use with Item 3R) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
SES FOAM INC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam.

5I. **Fiber, Sprayed* —** (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft^3.
APPLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose Insulation

5J. **Foamed Plastic* —** (Optional, Not Shown - For use with Item 3U) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
GACO WESTERN L L C — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 183M

5K. **Foamed Plastic* —** (Optional, Not Shown - For use with Item 3V) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamulate Closed Cell, Foamulate OCX, Foamulate 70, and Foamulate HFO.

6. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may

be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

6A. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members on one side of studs as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax

6B. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
PLITEQ INC — Type Genie Clip

6C. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6D. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with a double strand of No. 18 AWG twisted steel wire. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

6E. **Steel Framing Members* —** (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC - Type RC+ Assurance Clip

6F. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

6G. **Steel Framing Members* —** (Optional, Not Shown) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.
PAC INTERNATIONAL L L C — Type RC-1 Boost

7. **Furring Channel —** Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.

8. **Caulking and Sealants —** (Not Shown, Optional) — A bead of acoustical sealant applied around the partition perimeter for sound control.

9. **STC Rating —** The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:

A. Item 2, above — Nailheads Shall be covered with joint compound.

B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound.

C. Item 5, above — Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.

D. Item 6, above — Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly.

E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control.

F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating.

10. **Wall and Partition Facings and Accessories* —** (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

11. **Cementitious Backer Units* —** (Optional Item Not Shown **—** For Use On Face Of 1 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing.
NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

12. **Non-Bearing Wall Partition Intersection —** (Optional) **—** Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

13. **Mesh Netting —** (Not Shown) — Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row.

14. **Mineral and Fiber Board* —** (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

14A. **Mineral and Fiber Board* —** (Optional, Not Shown) — For use with Items 14B-14E) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

14B. **Glass Fiber Insulation —** (For use with Item 14A) — 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.

14C. **Batts and Blankets* —** (As an alternate to Item 14B, For use with Item 14A), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.
THERMAFIBER INC — Type SAFB, SAFB FF

14D. **Adhesive —** (For use with Item 14A) **—** Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A).

14E. **Gypsum Board* —** (For use with Item 14A) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 14A). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min.
AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type C

CGC INC — Types C, IP-X2, IPC-AR

CERTAINTEED GYPSUM INC — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Type PRC

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

14F. **Mineral and Fiber Board —** (Optional, Not Shown) **—** For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 3). Fiber boards installed with 1-1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 3) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
BLUE RIDGE FIBERBOARD INC — SoundStop

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2022-02-14

UL Product iQ™

BXUV.U327 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U327

August 19, 2020

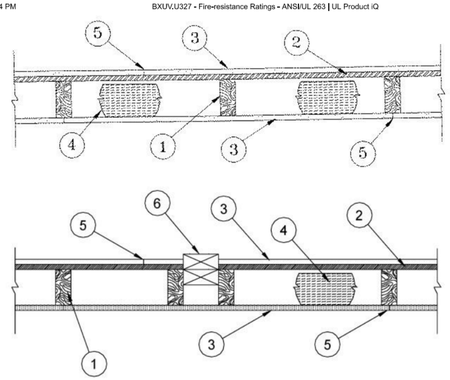
Bearing Wall Rating — 1 Hr

Finished Rating — 23 Min

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

DETAIL 3 - WALL ASSEMBLY
UL DESIGN NO. U327
INTERIOR WALL
FIRE RATING - 1 HOUR



1. **Wood Studs —** Nom 2 by 4 in. spaced 16 or 24 in. OC. Effectively cross braced.

2. **Furring Channel —** Resilient, 25 MSG galv steel. Furring channels spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws.

3. **Gypsum Board* —** 5/8 in. thick, 4 ft wide applied vertically. Screw attached one side to furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs. Wallboard attached on other side directly to studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws spaced 12 in. OC, vertical joints located over studs.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

CGC INC — Types C, SCX, SHX, FRX-G, IP-X1, IP-X2, IPC-AR, ULIX, ULX

PANEL REY S A — Type PRX

UNITED STATES GYPSUM CO — Types C, SCX, SHX, ULIX, ULX, FRX-G, IP-X1, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Types C, SCX

USG MEXICO S A DE C V — Types C, SCX, SHX, FRX-G, IP-X1, IP-X2, IPC-AR, ULX

4. **Batts and Blankets* —** 3-1/2 in. thick mineral wool batts, placed to fill interior of wall, attached to the 4 in. face of the studs with staples placed 24 in. OC.
ROCKWOOL — Type SAFEnSOUND

THERMAFIBER INC — Type SAFB, SAFB FF

4A. **Glass Fiber Insulation —** (As an alternate to Item 4) **—** 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall.
See **Batts and Blankets** (BKNV or BZJZ) Catagories for names of Classified companies.

5. **Joints and Screw Heads —** Gypsum board joints covered with paper tape and joint compound. Screw heads covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape.

6. **Non-Bearing Wall Partition Intersection —** (Optional) **—** Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

7. **Steel Framing Members* —** (Optional, Not Shown) **—** Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 or 24 in. O.C (depending on stud spacing). Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.
PAC INTERNATIONAL L L C — Type RC-1 Boost

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2020-08-19

8/16/2023 12:51:03 PM

brr

Architect of Record:
BRR Architecture, Inc.

8131 METCALF AVE, SUITE 300
OVERLAND PARK, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By:
Author
Checked By:
JL
Document Date:
08/16/23
Protocycle:
WSS_v5_2023.1 (05/05/23)
Bulletins Through:
WSS_v2_B08

Project No.

31000541

Professional Seal

Sheet Title

FIRE RATED ASSEMBLIES

Sheet No.

A10.3

BRR Original printed on recycled paper

FOR REFERENCE ONLY

UL Product iQ™

BXUV.U341 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

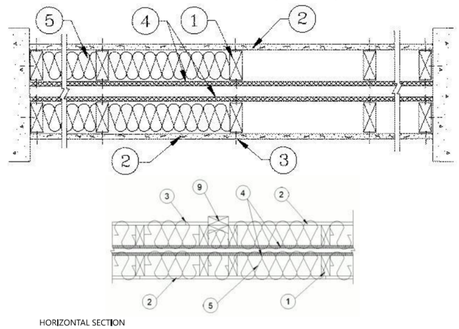
Design No. **U341**

February 14, 2022

Bearing Wall Rating — 1 Hr.
Finish Rating — Min 20 min.
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

DETAIL 4 - WALL ASSEMBLY
UL DESIGN NO. U341
BEARING WALL
FIRE RATING - 1 HOUR



HORIZONTAL SECTION

1. **Wood Studs —** Nom 2 by 4 in., spaced 24 in. OC max. Cross braced at mid-height and effectively firestopped at top and bottom of wall. No min. air space between stud rows except to accommodate attachment of sheathing, where required. See items 4 and 5.

2. **Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305.** Nom 5/8 in. thick 4 ft wide. Gypsum board applied horizontally or vertically, unless specified below, and nailed to studs and bearing plates 7 in. OC with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam head. As an alternate, No. 6 bugle head drywall screws, 1-7/8 in. long, may be substituted for the 6d cement coated nails.
When **Steel Framing Members*** Item 6 or any alternate clips are used, wallboard attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When used in widths other than 48 in., gypsum board to be installed horizontally.

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CABOT MANUFACTURING ULC (View Classification) — CKNX.R25370

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG BORAL DRYWALL SFZ LLC (View Classification) — CKNX.R38438

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

2A. **Gypsum Board* —** (As an alternate to Item 2, not shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically to studs and bearing plates on one side of the assembly with 1-5/8 in. long Type S screws spaced 12 in. OC at perimeter of panels and 8 in. OC in the field. Horizontal joints of vertically applied panels need not be backed by studs. Panel joints covered with paper tape and two layers of joint compound. Screwheads covered with two layers of joint compound. Batts and Blankets placed in stud cavity as described in Item 5C. Not evaluated for use with Steel Framing Members, Furring Channels or Fiber, Sprayed.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-530 (finish rating 23 min).

2B. **Gypsum Board* —** (As an alternate to Item 2, not shown) — Any 5/8 in. thick gypsum panels that are eligible for use in Design Nos. L501, G512 or U305, supplied by the Classified companies listed below shown in the **Gypsum Board*** (CKNX) category. Applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.
UNITED STATES GYPSUM CO

USG BORAL DRYWALL SFZ LLC

USG MEXICO S A DE C V

2C. **Gypsum Board* —** (As an alternate to Item 2, Not Shown) — 5/8 in. thick gypsum panels applied horizontally or vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1

NATIONAL GYPSUM CO — Type FSK, Type FSK-G, Type FSW, Type FSW-3, Type FSW-5, Type FSW-G, Type FSK-C, Type FSW-C, Type FSMR-C, Type FSW-6, Type FSL

THAI GYPSUM PRODUCTS PCL — Type C or Type X

2D. **Gypsum Board* —** (As an alternate to Items 2, 2A, 2B and 2C) **—** 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws

spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed as described in Item 2. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.
GEORGIA-PACIFIC GYPSUM L L C — GreenGlass Type X, Type DGG.

2E. **Gypsum Board* —** (As an alternate to Items 2 through 2D) **—** 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically only and secured as described in Item 2.
GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board.

2F. **Gypsum Board* —** (As an alternate to Items 2 through 2E) **-** Installed as described in Item 2. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC. Not for use with item #6.
NATIONAL GYPSUM CO — Type SBWB

2G. **Gypsum Board* —** (As an alternate to Items 2 through 2F) **—** Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types QuietRock ES.

2H. **Gypsum Board* —** (As an alternate to Items 2 through 2G) **—** Installed as described in Item 2. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally fastened to the studs and plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 12 in. OC.
CERTAINTEED GYPSUM INC — Type SilentFX

2I. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 2 through 2H) **—** Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

2J. **Gypsum Board* —** (As an alternate to 5/8 in. Type FSW in Item 2) **—** 2 layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal joints on the same side need not be staggered. Inner layer attached with fasteners, as described in item 2, spaced 24 in. OC. Outer layer attached per Item 2.
NATIONAL GYPSUM CO — Type FSW.

2K. **Gypsum Board* —** (As an alternate to Item 2) **—** 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

3. **Joints and Nailheads —** Gypsum board joints of outer layer covered with tape and joint compound. Nail heads of outer layer covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced with paper tape.

4. **Sheathing —** (Optional) **—** Gypsum may be sheathed with min 7/16 in. thick wood structural panels min grade "C-D" or "Sheathing" or min 1/2 in. thick **Mineral and Fiber Boards***.
See **Mineral and Fiber Boards** (CERZ) category for names of Classified companies.

5. **Batts and Blankets* —** 3-1/2 in. max thickness glass or mineral fiber batt insulation. **Optional** when sheathing (Item 4) is used on both halves of wall.
See **Batts and Blankets** (BZJZ) category for list of Classified companies.

5A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) **—** Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product.

U S GREENFIBER L L C — INS735, INS745, INS750LD and SANCTUARY for use with wet or dry application. INS515LD, INS541LD, INS735, INS765LD, and INS773LD are to be used for dry application only.

5B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) when Sheathing (Item 4) is used on both halves of wall **-** Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

5C. **Batts and Blankets* —** (Required for use with Wall and Partition Facings and Accessories, Item 2A. Use of Sheathing, Item 4, does not nullify requirement of Item 5C for use with Item 2A) **—** Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

5D. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) and Item 5A when Sheathing (Item 4) is used on both halves of wall **-** Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

5E. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) **-** Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft^3.
APPLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose Insulation

6. **Steel Framing Members* —** (Optional, Not Shown) **—** Furring channels and Steel Framing Members as described below:
A. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Wallboard attached to furring channels as described in Item 2.

B. **Steel Framing Members* —** Used to attach furring channels (Item a) to studs (Item 1) . Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

6A. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) **—** Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
PLITEQ INC — Type Genie Clip

6B. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) **—** Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

6C. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) **—** Furring channels and Steel Framing Members as described below:
A. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.

B. **Steel Framing Members* —** Used to attach furring channels (Item 6CA) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

6D. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) **—** Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 6Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

6E. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) **—** Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 24 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.
PAC INTERNATIONAL L L C — Type RC-1 Boost

6F. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) **—** Furring channels and Steel Framing Members as described below:
a **Furring Channels —** Formed of No. 25 MSG galv steel, 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b **Steel Framing Members* —** Used to attach furring channels (Item 6Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

7. **Wall and Partition Facings and Accessories* —** (Optional, Not shown) **—** Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

8. **Mineral and Fiber Board* —** ((Optional, Not Shown) **—** For optional use as an additional layer on one or both sides of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing as described in Item 2. The required

UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

9. **Non-Bearing Wall Partition Intersection —** (Optional) **—** Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

(Optional, Not Shown) Alternate Construction For Use On One Side Of The Wall.

10. **Mineral and Fiber Board* —** For use with Items 10A-10D) **—**Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

10A. **Glass Fiber Insulation —** (For use with Item 10) **—** 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.

10B. **Batts and Blankets* —** (As an alternate to Item 10B, For use with Item 10), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.
THERMAFIBER INC — Type SAFB, SAFB FF

10C. **Adhesive —** (For use with Item 10) **—** Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A).

10D. **Gypsum Board* —** (For use with Item 10) **—** 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 10). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min.
AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type C

CERTAINTEED GYPSUM INC — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Type PRC

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Type CTypes C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2022-02-14

brr

Architect of Record:
BRR Architecture, Inc.

8131 METCALF AVE
SUITE 300
OVERLAND PARK, KS 66204

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Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES™ CHOICE HOTELS

Drawn By:
ALW
Checked By:
JL
Document Date:
08/16/23
Protocycle:
WSS_v4_2019.1 (01/31/19)
Bulletins Through:
WSS_v2_B08

Project No.

31000541

Professional Seal

FOR REFERENCE ONLY

Sheet Title

FIRE RATED ASSEMBLIES

Sheet No.

A10.4

BRR Original printed on recycled paper

8/16/2023 12:51:03 PM

UL Product iQ™

BXUV.U356 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

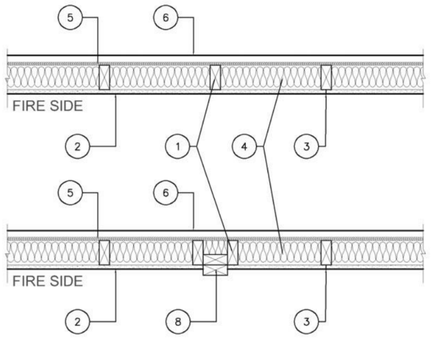
Design No. U356

February 14, 2022

Bearing Wall Rating - 1 Hr Rating Exposed to Fire on Interior Face Only
Bearing Wall Rating — 1 Hr Rating Exposed to Fire on Exterior Face (See Item 6E)
Finish Rating — 23 Min or 25 Min (See Item 2C)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

DETAIL 5 - WALL ASSEMBLY
UL DESIGN NO. U356
BEARING WALL
FIRE RATING - 1 HOUR



1. **Wood Studs —** Nom 2 by 4 in. spaced 16 in. OC with two 2 by 4 in. top and one 2 by 4 in. bottom plates. Studs laterally-braced by wood structural panel sheathing (Item 5). When **Mineral and Fiber Boards*** (Item 5A) are considered as bracing for the studs, the load is restricted to 76% of allowable axial load. Walls effectively fire stopped at top and bottom of wall.

2. **Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305.** Nom 5/8 in. thick, 4 ft wide, applied vertically and nailed to studs and bearing plates 7 in. OC with 6d cement-coated nails, 1-7/8 in. long with 1/4 in. diam head.

When Item **Steel Framing Members*** (Item 7 or any alternate clips), is used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 7A **Steel Framing Members***, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers.

AMERICAN GYPSUM CO (View Classification) **—** CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) **—** CKNX.R19374

CABOT MANUFACTURING ULC (View Classification) — CKNX.R25370

CERTAINTEED GYPSUM INC (View Classification) **—** CKNX.R3660

CGC INC (View Classification) **—** CKNX.R19751

CERTAINTEED GYPSUM INC (View Classification) **—** CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) **—** CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) **—** CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) **—** CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) **—** CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) **—** CKNX.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) **—** CKNX.R38438

USG MEXICO S A DE C V (View Classification) **—** CKNX.R16089

2A. **Gypsum Board* —** (As an alternate to Item 2, Not Shown) **—** Any 5/8 in. thick 4 ft wide gypsum panels that are eligible for use in Design Nos. L501, G512 or U305, supplied by the Classified Companies listed below shown in the **Gypsum Board*** (CKNX) category. Applied vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.
CGC INC

UNITED STATES GYPSUM CO

USG BORAL DRYWALL SFZ LLC

USG MEXICO S A DE C V

2B. **Gypsum Board* —** (As an alternate to Item 2, Not Shown) **—** 5/8 in. thick 4 ft wide gypsum panels applied vertically and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Type C, Type X, Type X-1, Easi-Lite Type X-2

GEORGIA-PACIFIC GYPSUM L L C — Types X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X, Type X ComfortGuard Sound Deadening Gypsum Board.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-11, PGS-WRS, PGI

THAI GYPSUM PRODUCTS PCL — Type C or Type X

2C. **Gypsum Board* —** (As an alternate to Item 2, Not Shown) **—** For Use with Item 5A only - 5/8 in. thick 4 ft wide gypsum panels applied horizontally and attached to studs and bearing plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screws 1 in.and 4 in. from edges of board. Finish Rating is 25 min.
CABOT MANUFACTURING ULC — 5/8 Type X, Type Blueglass Exterior Sheathing

GEORGIA-PACIFIC GYPSUM L L C — Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Soffit-Type X

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-11, PGS-WRS, PGI

2D. **Gypsum Board* —** (As an alternate to Item 2) **—** Not to be used with item 7. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically only and fastened to the studs and plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads, 7 in. OC.
NATIONAL GYPSUM CO — Type SBWB

2E. **Gypsum Board* —** (As an alternate to Items 2 through 2D) **—** Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES.

2F. **Gypsum Board* —** (As an alternate to Item 2) **—** Not to be used with item 7. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally and fastened to the studs and plates with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board.
CERTAINTEED GYPSUM INC — Type SilentFX

2G. **Wall and Partition Facings and Accessories* —** (As an alternate to Items 2 through 2F) **—** Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

2H. **Gypsum Board* —** (As an alternate to Item 2) **—** 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

2I. **Gypsum Board* —** (As an alternate to Item 2) **—** 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

AMERICAN GYPSUM CO — Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LightRoc (finish rating 25 min.)

NATIONAL GYPSUM CO — Type FSK, Type FSK-G, Type FSW, Type FSW-3, Type FSW-5, Type FSW-G, Type FSK-C, Type FSW-C, Type FSMR-C, Type FSW-6, Type FSL

2J. **Gypsum Board* —** (As an alternate to Item 2) - 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread steel screws spaced a max 8 in. OC with the last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum boards are to be installed horizontally.
CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1(finish rating 26 min), Easi-Lite Type X (finish rating 24 min), Easi-Lite Type X-2, Type EGRG or GlasRoc or GlasRoc Sheathing (finish rating 23 min)

3. **Joints and Fastener Heads —** (Not Shown) **—** Gypsum board joints covered with tape and joint compound. Fastener heads covered with joint compound.

4. **Batts and Blankets* —** Mineral fiber or glass fiber insulation, 3-1/2 in. thick, pressure fit to fill wall cavities between studs and plates. Mineral fiber insulation to be unfaced and to have a min density of 3 pcf. Glass fiber insulation to be faced with aluminum foil or kraft paper and to have a min density of 0.9 pcf (min R-13 thermal insulation rating).
See **Batts and Blankets*** (BKNV) Category in the Building Materials Directory and **Batts and Blankets*** (BZJZ) Category in the Fire Resistance Directory for names of Classified Companies.

4A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 4) **—** Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lbs/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product.
U S GREENFIBER L L C — INS735 and INS745 for use with wet or dry application. INSS15LD, INSS41LD, INS735, INS745, INS765LD, and INS773LD are to be used for dry application only.

4B. **Fiber, Sprayed* —** As an alternate to Item 4 and 4A **—** Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 4.58 lb/ft^3.
NU-WOOL CO INC — Cellulose Insulation

4C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 4) **—** Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

4D. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 4) **—** Spray applied, granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5. **Wood Structural Panel Sheathing —** Min 7/16 in. thick, 4 ft wide wood structural panels, min grade "C-D" or "Sheathing". Installed with long dimension of sheet (strength axis) or face grain of plywood parallel with or perpendicular to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 6d cement coated box nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs.

5A. **Mineral and Fiber Boards* —** As an alternate to Item 5 - Min 1/2 in. thick, 4 ft wide sheathing, installed vertically to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 1-1/2 in. long galvanized roofing nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs. As an option a weather resistive barrier may be applied over the Mineral and Fiber Boards.

6. **Exterior Facings —** Installed in accordance with the manufacturer's installation instructions. One of the following exterior facings is to be applied over the sheathing:

A. **Vinyl Siding — Molded Plastic* —** Contoured rigid vinyl siding having a flame spread value of 20 or less.
See **Molded Plastic** (BTAT) category in the Building Materials Directory for names of manufacturers.

B. **Particle Board Siding —** Hardboard exterior sidings including patterned panel or lap siding.

C. **Wood Structural Panel or Lap Siding —** APA Rated Siding, Exterior, plywood, OSB or composite panels with veneer faces and structural wood core, per PS 1 or APA Standard PRP-108, including textured, rough sawn, medium density overlay, brushed, grooved and lap siding.

D. **Cementitious Stucco —** Portland cement or synthetic stucco systems with self-furring metal lath or adhesive base coat. Thickness from 3/8 to 3/4 in., depending on system.

E. **Brick Veneer —** Any type on nom 4 in. wide brick veneer. When brick veneer is used, the rating is applicable with exposure on either face. Brick veneer fastened with corrugated metal wall ties attached over sheathing to wood studs with 8d nail per tie; ties spaced not more than each sixth course of brick and max 32 in. OC horizontally. One in. air space provided between brick veneer and sheathing.

F. **Exterior Insulation and Finish System (EIFS) —** Nom 1 in. **Foamed Plastic*** insulation bearing the UL Classification Marking, attached over sheathing and finished with coating system, or Portland cement or synthetic stucco systems, in accordance with manufacturer's instructions. See **Foamed Plastic** (BRYX and CCVW) categories for names of Classified companies.

G. **Siding —** Aluminum or steel siding attached over sheathing to studs.

H. **Fiber-Cement Siding —** Fiber-cement exterior sidings including smooth and patterned panel or lap siding.

I. **Wall and Partition Facings and Accessories* —** Stone veneer is mortar bonded to a lath, scratch coat and water resistant barrier applied to sheathing, installed in accordance with the manufacturers installation instructions, and meeting the requirements of local code agencies.
ELDORADO STONE OPERATIONS L L C — Type Eldorado Stone

J. **Cementitious Backer Units —** 1/2 in. or 5/8 in., min. 32 in. wide - Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum 3/4 in., spaced a max of 8 in. OC. Horizontal joints need not be backed by framing. When Cementitious Backer Units are used, the rating is applicable with exposure on either face. Cementitious Backer Units for use as substrate for exterior finishes such as ceramic tile, slate, marble, natural stone, manufactured stone, thin brick, or Portland cement or synthetic stucco.
NATIONAL GYPSUM CO — Type PermaBase

6A. **Building Units* — As an alternate to Exterior Facing Item 6 —** Insulated steel panels, 12 through 42 in. wide. Attached over sheathing through retainer clips to studs or support steel with No. 14 hex head self-tapping screws located at each joint in the concealed lip of the units and spaced in accordance with the structural design requirements. KINGSPAN INSULATED PANELS INC **—** Types 200, 300, 400, 900, or KS series, 2 through 6 in. thickness; CWP-V, H, 2 through 3 in. nominal thickness or Designwall 2000 or Designwall 4000, 2 and 3 in. nominal thickness.

7. **Steel Framing Members* —** (Optional, Not Shown) **—** Furring Channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7A) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

7A. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 7) **—** Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Two layers of gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to interior side of studs. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax.

7B. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 7) **—** Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
PLITEQ INC — Type Genie Clip

7C. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 7) **—** Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ca) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

7D. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 7) **—** Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

7E. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 7) **—** Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 2.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

7F **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 7) **—** Furring channels and Steel Framing Members as described below:
a **Furring Channels —** Formed of No. 25 MSG galv steel, 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.

b **Steel Framing Members* —** Used to attach furring channels (Item 7Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

8. **Non-Bearing Wall Partition Intersection —** (Optional) **—** Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

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Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES™
CHOICE HOTELS

Drawn By:
ALW
Checked By:
JL
Document Date:
08/16/23
Protocycle:
WSS_v4_2019.1 (01/31/19)
Bulletins Through:
WSS_v2_B08

Project No.

31000541

Professional Seal

FOR REFERENCE ONLY

Sheet Title

FIRE RATED ASSEMBLIES

Sheet No.

A10.5

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BXUV.U905 - Fire-resistance Ratings - ANSI/UL 263

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BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U905

November 09, 2020

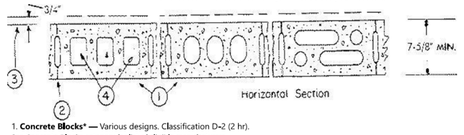
Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

DETAIL 6 - WALL ASSEMBLY
UL DESIGN NO. U905
BEARING WALL
FIRE RATING - 2 HOUR



1. **Concrete Blocks* —** Various designs. Classification D-2 (2 hr).
See **Concrete Blocks** category for list of eligible manufacturers.

2. **Mortar —** Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster —** Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill —** If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. **Foamed Plastic* —** (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ SHEATHE

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci Foil (Class A)", "Xci 286"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath", "Thermasheath-3", "Durasheath-3".

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

5A. **Building Units* —** As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci N8", "Xci Ply"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply".

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2020-11-09

UL Product iQ™

XHEZ.F-C-1160 - Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

See General Information for Through-penetration Firestop Systems

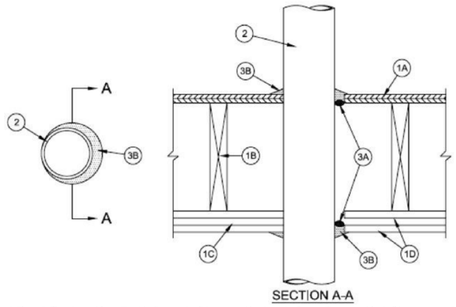
See General Information for Through-penetration Firestop Systems Certified for Canada

System No. F-C-1160

March 07, 2017

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings -1 and 2 Hr (See Item 1)
	FH Ratings -1 and 2 Hr (See Item 1)
T Rating - 1/4 Hr	FT Rating - 1/4 Hr
	FTH Rating -1/4 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	L Rating At Ambient - Less Than 5.1 L/s/m^2

DETAIL 11 - PIPE PEN. @ FLOOR/CEILING
UL DESIGN NO. F-C-1160
F RATING - 1 & 2 HOUR (SEE ITEM 1)
T RATING - 1/4 HOUR



SECTION A-A

1. **Floor-Ceiling Assembly —** The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The 2 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in Design Nos. L505, L511 or L536 in the UL Fire Resistance Directory. **The F Rating of the firestop system is equal to the hourly fire rating of the floor-ceiling assembly.** The general construction features of the floor-ceiling assembly are summarized below:
A. **Flooring System —** Lumber or plywood subfloor with finish floor of lumber, plywood or **Floor Topping Mixture*** as specified in the individual Floor-Ceiling Design. Max diam of opening is 7/8 in. (22 mm) larger than outside diam of penetrant.

B. **Wood Joists —** For 1 hr fire-rated floor-ceiling assemblies, nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members*** with bridging as required and with ends firestopped. For 2 hr fire-rated floor-ceiling assemblies, nom 2 by 10 in. (51 by 254 mm) lumber joists spaced 16 in. (406 mm) OC with nom 1 by 3 in. (25 by 76 mm) lumber bridging and with ends firestopped.

C. **Furring Channels —** In 2 hr fire-rated assemblies, resilient galv steel furring installed perpendicular to wood joists between first and second layers of gypsum board (Item 1D). Furring channels spaced max 24 in. (610 mm) OC.

D. **Gypsum Board* —** Nom 4 ft (122 cm) wide by 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. First layer of gypsum board secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design. Second layer of gypsum board (2 hr fire-rated assembly) screw-attached to furring channels as specified in the individual Floor-Ceiling Design. Max diam of opening is 7/8 in. (22 mm) larger than outside diam of penetrant.

1.1 **Chase Wall —** (Optional, not shown) — The through penetrant (Item 2) may be routed through a fire-rated single, double or staggered wood stud/gypsum board chase wall having a fire rating consistent with that of the floor-ceiling assembly. The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. **Studs —** Nom 2 by 6 in. (51 by 152 mm) or double nom 2 by 4 in. (51 by 102 mm) lumber studs.

B. **Sole Plate —** Nom 2 by 6 in. (51 by 152 mm) or parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Max diam of opening is 3 in. (76 mm).

C. **Top Plate —** The double top plate shall consist of two nom 2 by 6 in. (51 by 152 mm) or two sets of parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Max diam of opening is 3 in. (76 mm).

D. **Gypsum Board* —** Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.

2. **Through Penetrants —** One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (point contact) to max 7/8 in. (22 mm). Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. **Steel Pipe —** Nom 8 in. (203 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.

B. **Iron Pipe —** Nom 8 in. (203 mm) diam (or smaller) cast or ductile iron pipe.

C. **Conduit —** Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or nom 6 in. diam (or smaller) steel conduit.

D. **Copper Tubing —** Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. **Copper Pipe —** Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. **Firestop System —** The firestop system shall consist of the following:
A. **Packing Material —** (Optional) — Foam backer rod firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sole plate and bottom surface of ceiling or lower top plate as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material* — Caulk —** Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with top surface of the floor or sole plate and bottom surface of the ceiling or lower top plate. Additional fill material to be installed such that a min 1/2 in. (13 mm) crown is formed around the penetrating item and lapping 1-1/4 in. (32 mm) beyond the periphery of the opening.
DAP PRODUCTS INC — DAP Blockade

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2017-03-07

UL Product iQ™

XHEZ.F-C-2203 - Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

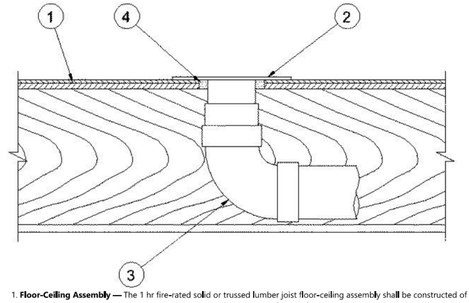
System No. F-C-2203

January 05, 2017

F Rating — 1 Hr

T Rating — 1 Hr

DETAIL 12 - PIPE PEN. @ FLOOR/CEILING
UL DESIGN NO. F-C-2203
F RATING - 1 HOUR
T RATING - 1 HOUR



1. **Floor-Ceiling Assembly —** The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
A. **Flooring System —** Lumber or plywood subfloor with finish floor of lumber, plywood or **Floor Topping Mixture*** as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 5 in. (127 mm).

B. **Wood Joist* —** Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members*** with bridging as required and with ends firestopped.

C. **Gypsum Board* —** Nom 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide as specified in the individual Floor-Ceiling Design.

2. **Closet Flange —** Acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) closet stub sized to accommodate drain pipe. Closet flange installed over drain piping within floor opening with flange secured to plywood floor with steel screws. Diam of circular opening through flooring (Item 1A) to be max 1/2 in. (13 mm) larger than outside diam of closet flange.

3. **Drain Piping —** Nom 4 in. (102 mm) diam (or smaller) Schedule 40 acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) drain pipe and 90 degree elbow for use in vented (drain, waste or vent) piping systems. Pipe installed concentrically within firestop system.

4. **Fill, Void or Cavity Materials*—Sealant —** Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with the bottom surface of floor.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

5. **Water Closet —** (Not Shown)—Floor mounted vitreous china water closet.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2017-01-05

brr

Architect of Record:
BRR Architecture, Inc.

8131 METCALF AVE
SUITE 300
OVERLAND PARK, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES™ CHOICE HOTELS

Drawn By: ALW
Checked By: JL
Document Date: 08/16/23
Protocycle: WSS_v4_2019.1 (01/31/19)
Bulletins Through: WSS_v2_B08

Project No.

31000541

Professional Seal

FOR REFERENCE ONLY

Sheet Title

FIRE RATED ASSEMBLIES

Sheet No.

A10.6

BRR Original printed on recycled paper

8/16/2023 12:51:04 PM

UL Product iQ™

XHEZ.F-C-2379 - Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

See General Information for Through-penetration Firestop Systems

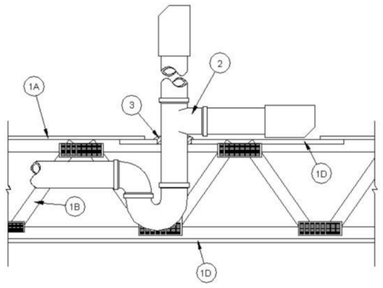
See General Information for Through-penetration Firestop Systems Certified for Canada

System No. F-C-2379

October 26, 2020

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 1 Hr	F Rating -1 Hr
	FH Rating -1 Hr
T Rating - 1 Hr	FT Rating -1 Hr
	FTH Rating -1 Hr
L Rating At Ambient - Less than 1 CFM/sq ft	L Rating At Ambient - Less than 1 CFM/sq ft
L Rating At 400°F - Less than 1 CFM/sq ft	L Rating At 400°F

DETAIL 13 - PIPE PEN. @ FLOOR/CEILING
UL DESIGN NO. F-C-2379
F RATING - 1 HOUR
T RATING - 1 HOUR



1. **Floor-Ceiling Assembly —** The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory, as summarized below:

A. **Flooring System —** Lumber or plywood subfloor with finish floor of lumber, plywood or **Floor Topping Mixture*** as specified in the individual Floor-Ceiling Design. Rectangular cutout in flooring to accommodate the bathtub drain piping (Item 2) to be max 8 by 12 in. (203 by 305 mm).

B. **Wood Joists —** Nom 2 by 10 in. (51 by 254 mm) lumber joists spaced 16 in. (406 mm) OC with nom 1 by 3 in. (25 by 76 mm) lumber bridging and with ends firestopped. As an alternate to lumber joists, nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members*** with bridging as required with ends firestopped.

C. **Furring Channels —** (Not Shown) — Resilient galv steel furring installed perpendicular to wood joists (Item 1B) between gypsum board (Item 1D) and wood joists as required in the individual Floor Ceiling Design.

D. **Gypsum Board* —** Nom 4 ft (1.2 m) wide by 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. Gypsum board secured to wood joists as specified in the individual Floor-Ceiling Design. One piece of gypsum board, min 4 in. (102 mm) longer and wider than the cutout in the flooring, screw-attached to bottom of flooring concentric with cutout by means of 1 in. (25 mm) long Type S steel screws spaced max 5 in. (127 mm) OC. Diam of opening hole-sawed through the gypsum board patch to be 1 in. (25 mm) larger than outside diam of bathtub drain piping (Item 2).

2. **Drain Piping —** Nom 1-1/2 in. (38 mm) diam Schedule 40 solid or cellular core polyvinyl chloride (PVC) or acrylonitrile butadiene styrene (ABS) pipe and drain fittings cemented together and provided with PVC bathtub waste/overflow fitting. Pipe to be installed either concentrically or eccentrically within the firestop system. The annular space within the firestop system shall be a min 3/8 in. (10 mm) to a max 5/8 in. (16 mm).

3. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. (16 mm) thickness of fill material to be applied within annulus between the tee of the drain fitting and gypsum board patch on the top surface of the floor. An additional 1/4 in. (6 mm)

crown of fill material shall be applied around tee of drain fitting on top surface of the gypsum board patch.
SOUDAL ACCUMETRIC — Boss 816+

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2020-10-26

UL Product iQ™

XHEZ.F-C-3128 - Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

See General Information for Through-penetration Firestop Systems

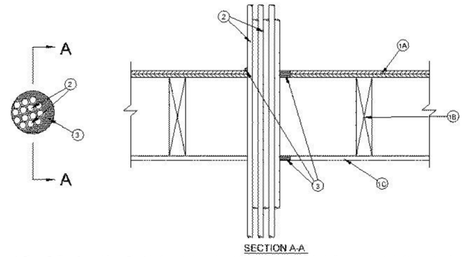
See General Information for Through-penetration Firestop Systems Certified for Canada

System No. F-C-3128

August 02, 2019

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 1 Hr	F Rating -1 Hr
	FH Rating -1 Hr
T Rating - 1 Hr	FT Rating -1 Hr
	FTH Rating -1 Hr

DETAIL 14 - CABLE PEN. @ FLOOR/CEILING
UL DESIGN NO. F-C-3128
F RATING - 1 HOUR
T RATING - 1 HOUR



1. **Floor-Ceiling Assembly —** The 1 hr fire-rated wood joist floor ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Designs in the UL Fire Resistance Directory, as summarized below:

A. **Flooring System —** Lumber or plywood subfloor with finish floor of lumber, plywood or **Floor Topping Mixture*** as specified in the individual Floor-Ceiling Design. Max diam of floor opening is 4-1/2 in. (114 mm).

B. **Wood Joists —** Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or **Structural Wood Members*** with bridging as required and with ends firestopped.

C. **Gypsum Board* —** Nom 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. Diam of opening to be max 1 in. (25 mm) larger than diam of bundled penetrants.

1A. **Chase Wall —** (Optional, Not Shown) **—** The through penetrants (Item 2) may be routed through a 1 hr fire-rated single, double or staggered wood stud/gypsum board chase wall. Depth of chase wall stud cavity to be min 1/2 in. (13 mm) greater than diameter of opening cut in sole and top plates to accommodate the through penetrant (Item 2). The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 152 mm) or double nom 2 by 4 in. (51 by 102 mm) lumber studs.

B. **Sole Plate —** Nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 152 mm) or parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Max diam of opening is to be 1 in. (25 mm) larger than diam of pipe

C. **Top Plate —** Top Plate **—** The double top plate shall consist of two nom 2 by 4 in. (51 by 102 mm), two nom 2 by 6 in. (51 by 152 mm) or two sets of parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Max diam of opening is to be 1 in. (25 mm) larger than diam of pipe.

D. **Gypsum Board* —** Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.

2. **Cables —** Max 3 in. (76 mm) diam bundle of cables to be installed within the opening. At the plywood subfloor, bundled cables to be installed either concentrically or eccentrically within the opening with an annular space of min 0 in. (point contact) to max 1 in. (25 mm). At gypsum board ceiling, bundled cables to be installed either concentrically or eccentrically within the opening. Bundled cables to be rigidly supported on both sides of the floor-ceiling assembly. The following types and sizes of copper conductor cables shall be utilized in the opening:

A. Max 750 MCM power cables; THHN or THWN jacketed.

B. Max 8C, No.12 AWG multiconductor power and control cables; jacketed.

C. Max 300 pair No. 24 AWG copper conductor communication cable with polyvinyl chloride insulation and jacket material.

D. Max 25 pr/24 AWG telephone cable with polyethylene insulation and polyvinyl chloride jacket.

E. Max 4/C No. 18 AWG (or smaller) thermostat cable with PVC insulation and jacket.

F. Max 3C w/gnd, No. 12 AWG (or smaller) Romex NMC or SER w/pvc insulation and jacket.

G. Max 3C w/gnd, 2/0 AWG, Type SER aluminum, polyvinyl insulation and jacket.

H. Max 3C w/gnd, No. 6 AWG, Type NMC.

3. **Firestop System —** The firestop system shall consist of the following:

A. **A. Fill,Void or Cavity Material* — Caulk —** Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with the top surface of the floor sole plate. Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with bottom surface of ceiling or top plate. Min 1/2 in. (13 mm) diam bead of fill material applied at point contact location on the top surface of floor or sole plate and at the penetrant/ceiling or top plate interface.
ECM INDUSTRIES, LLC — FSC-1103

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

+Bearing the UL Recognized Component Mark

Last Updated on 2019-08-02

UL Product iQ™

XHEZ.W-L-2048 - Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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- Only products which bear UL's Mark are considered Certified.

Through-penetration Firestop Systems
XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-2048

October 11, 2021

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings —1, 1-3/4 and 2 Hr (See Items 2 and 4A)	FT Ratings — 1, 1-3/4 and 2 Hr (See Items 2 and 4A)
L Rating At Ambient — Less Than 1 CFM/ft^2	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400°F — Less Than 1 CFM/ft^2	FTH Ratings — 1, 1-3/4 and 2 Hr (See Items 2 and 4A)
	L Rating At Ambient — Less Than 5.1 L/s/m^2
	L Rating At 204°C — Less Than 5.1 L/s/m^2

DETAIL 15 - PIPE PEN. @ WALL
UL DESIGN NO. W-L-2048
F RATING - 1 & 2 HOUR (SEE ITEM 1)
T RATING - 1, 1 3/4 & 2 HOUR (SEE ITEM 2 & 4A)

brr

Architect of Record:
BRR Architecture, Inc.

8131 METCALF AVE
SUITE 300
OVERLAND PARK, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES™ CHOICE HOTELS

Drawn By: ALW
Checked By: JL
Document Date: 08/16/23
Protocycle: WSS_v4_2019.1 (01/31/19)
Bulletins Through: WSS_v2_B08

Project No.

31000541

Professional Seal

FOR REFERENCE ONLY

Sheet Title

FIRE RATED ASSEMBLIES

Sheet No.

A10.7

BRR Original printed on recycled paper

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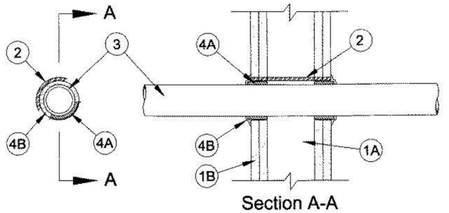


Section A-A

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, V300, U400, V400 or W400 Series Wall Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, V300, U400, V400 or W400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5 in. (127 mm).
The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Steel Sleeve (Optional) —** Nom 3 in. (76 mm) diam (or smaller) Schedule 40 (or thinner) steel pipe friction-fit into wall assembly, flush with both surfaces of wall. **When steel sleeve is used, T, FT and FTH Ratings are 1 hr.**

3. **Through Penetrants —** One nonmetallic pipe or conduit to be centered within the firestop system. The annular space shall be min 1/4 in. (6 mm) to max 1-1/4 in (32 mm). Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
A. **Polyvinyl Chloride (PVC) Pipe —** Nom 3 in. (76 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe —** Nom 3 in. (76 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.

C. **Rigid Nonmetallic Conduit+ —** Nom 3 in. (76 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).

D. **Acrylonitrile Butadiene Styrene (ABS) Pipe —** Nom 3 in. (76 mm) diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

E. **Flame Retardant Polypropylene (FRPP) Pipe —** Nom 2 in. (51 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

F. **Polypropylene (PP) Pipe —** Nom 1 in. (25 mm) diam (or smaller) Schedule 80 PP pipe for use in closed (process or supply) piping systems .

G. **Polyvinylidene Fluoride (PVDF) Pipe —** Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVDF pipe for use in closed (process or supply) piping systems .

4. **Firestop System —** The firestop system shall consist of the following:
A. **Fill, Void or Cavity Material* — Wrap Strip —** Nom 1/8 in. (3.2 mm) or 3/16 in. (4.8 mm) thick intumescent material faced on both sides with a plastic film, supplied in 2 in. (51 mm) wide strips or 1/8 or 1/4 in. (3.2 or 6 mm) thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 in. (38 mm) wide strips. Single layer of wrap strip wrapped around the through penetrant with the ends butted and held in place by means of foil tape. The wrap strip is slid along the through penetrant into annulus such that 1/4 in. (6 mm) of the wrap strip protrudes from the wall. One set of wrap strips to be installed on each side of wall. As an option when 1/8 in. (3.2 mm) thick wrap strip (BLU2) is used, the strips may be cut to a width of 1-1/2 in. (38 mm).
The T, FT and FTH Ratings of the firestop system is dependent upon the hourly rating of the wall, the type of through penetrant and the type of wrap strip used as tabulated below:

Type of Through Penetrant	Hourly Rating of Wall Hr	Type of Wrap Strip	T, FT, FTH Rating Hr
PVC, CPVC, PVDF, RNC, PP or FRPP	1	SpecSeal BLU, SpecSeal BLU2 or SpecSeal RED, RED2	1
ABS	1	SpecSeal BLU, SpecSeal BLU2 or SpecSeal RED, RED2	1
PVC, CPVC, PVDF, RNC, PP or FRPP	2	SpecSeal BLU, SpecSeal BLU2 or SpecSeal RED, RED2	2
ABS	2	SpecSeal BLU or SpecSeal BLU2	2
ABS	2	SpecSeal RED, RED2	1-3/4

SPECIFIED TECHNOLOGIES INC — SpecSeal BLU Wrap Strip, SpecSeal BLU2 Wrap Strip or SpecSeal RED Wrap Strip, SpecSeal RED2 Wrap Strip

B. **Fill, Void or Cavity Material* — Sealant —** When an annular space is present between the wrap strip and the edge of the opening, a min 5/8 in. (16 mm) depth of sealant shall be installed in the annular space flush with each surface of the wall. A min 1/4 in. (6 mm) diam bead of sealant shall be applied at the gypsum board/wrap strip interface on both surfaces of wall.
SPECIFIED TECHNOLOGIES INC — SpecSeal Series SSS Sealant, SpecSeal LCI Sealant or SpecSeal SIL300 Sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2021-10-11

UL Product iQ™

XHEZ.W-L-2100 - Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Through-penetration Firestop Systems

XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

See General Information for Through-penetration Firestop Systems

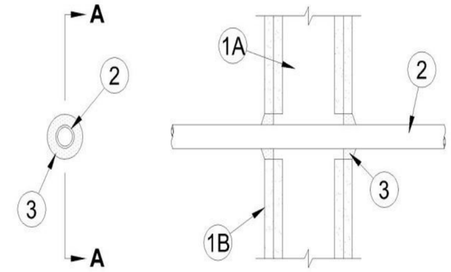
See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-2100

October 11, 2021

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, 1/4 , 1 and 1-1/2 Hr (See Item 2)	FT Ratings — 0, 1/4 , 1 and 1-1/2 Hr (See Item 2)
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Ratings — 0, 1/4 , 1 and 1-1/2 Hr (See Item 2)

DETAIL 16 - PIPE PEN. @ FLOOR/CEILING
UL DESIGN NO. W-L-2100
F RATING - 1 & 2 HOUR (SEE ITEM 1)
T RATING - 0, 1, 1 1/4 & 1 1/2 HOUR (SEE ITEM 2)



Section A-A

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, V300,U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Design in the UL Fire Resistance Directory. Max diam of opening is 3-1/2 in.
The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Nonmetallic Pipe —** One nonmetallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types of nonmetallic pipes or tubing may be used:
A. **Polybutylene Pipe —** Nom 1 in (2 mm) diam (or smaller) SDR 11 (or heavier) polybutylene (PB) pipe for use in closed (process or supply) piping systems. A nom annular space of 1/4 in. (6 mm) is required within the firestop system.

B. **Cross Linked Polyethylene (PEX) Tubing —** Nom 1 in. (2mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems. A nom annular space of 1/4 in. (6 mm) is required within the firestop system.

C. **Acrylonitrile Butadiene Styrene (ABS) Pipe —** Nom 1-1/2 in. (38 mm) diam (or smaller) Schedule 40 cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. The annular space shall be min 1/4 in. (6 mm) to max 1 in. (25 mm).

D. **Polyvinyl Chloride (PVC) Pipe —** Nom 2 in. (51 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. The annular space shall be min 0 in. (point contact) to max 1 in. (25 mm).

E. **Chlorinated Polyvinyl Chloride (CPVC) Pipe —** Nom 2 in. (51 mm) diam (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. The annular space shall be min 0 in. (point contact) to max 1 in. (25 mm).
The hourly T, FT and FTH Ratings of the firestop system are dependent on the hourly fire rating of the wall assembly in which it is installed and the type of through penetrant, as shown in the table below:

Rating of Wall Hr	Type of Through Penetrant	T, FT, FTH Rating Hr
2	PB pipe	1-1/2
2	PEX tubing	1-1/2
2	PVC or CPVC pipe	1/4
2	ABS pipe	0
1	PB pipe	1
1	PEX tubing	1
1	PVC or CPVC pipe	1/4
1	ABS pipe	0

3. **Fill, Void or Cavity Material* — Sealant —** Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. Additional fill material to be installed such that a min 1/4 in. thick crown is formed around the penetrating item.
SPECIFIED TECHNOLOGIES INC — SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2021-10-11

UL Product iQ™

XHEZ.W-L-2542 - Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

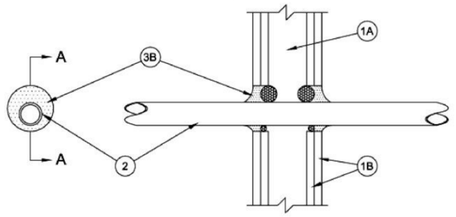
System No. W-L-2542

March 07, 2017

F Ratings — 1 and 2 Hr (See Items 1 and 2)

T Ratings — 0, 1 and 2 Hr (See Items 1 and 2)

DETAIL 17 - PIPE PEN. @ WALL
UL DESIGN NO. W-L-2542
F RATING - 1 & 2 HOUR (SEE ITEM 1 & 2)
T RATING - 0, 1 & 2 HOUR (SEE ITEM 1 & 2)



SECTION A-A

1. **Wall Assembly —** The 1 or 2 h fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 4 in. (102 mm).
The hourly F and T Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed unless noted otherwise.

2. **Through Penetrants —** One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. Pipe to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes may be used:
A. **Polyvinyl Chloride (PVC) Pipe —** Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 7/8 in. (22 mm). **For use with 1 hr wall constructions only. When used, F Rating is 1 hr and T Rating is 0 hr.**

B. **Polyvinyl Chloride (PVC) Pipe —** Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) piping systems. The annular space between pipe and periphery of opening shall be min 1/4 in. (6 mm) to max 1-3/8 in. (35 mm).

C. **Chlorinated Polyvinyl Chloride (CPVC) Pipe —** Nom 2 in. (51 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems. The annular space between pipe and periphery of opening shall be min 1/4 in. (6 mm) to max 1-3/8 in. (35 mm).

D. **Acrylonitrile Butadiene Styrene (ABS) Pipe —** Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid-core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. The annular space between pipe and periphery of opening shall be min 1/4 in. (6 mm) to max 7/8 in. (22 mm).

E. **Crosslinked Polyethylene (PEX) Tube —** Nom 1 in. (25 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems. The annular space between tube and periphery of opening shall be min 1/4 in.(6 mm) to max 1-3/8 in. (35 mm).

F. **Rigid Nonmetallic Conduit+ —** Nom 2 in. (51 mm) diam (or smaller), Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70). The annular space between conduit and periphery of opening shall be min 1/4 in. (6 mm) to max 1-3/8 in. (35 mm).

G. **Chlorinated Polyvinyl Chloride (CPVC) Pipe —** Nom 2 in. diam (or smaller) FLOWGUARD GOLD® SDR11 CPVC for use in closed (process or supply) piping systems. The annular space between conduit and periphery of opening shall be min 1/4 in. (6 mm) to max 1-3/8 in. (35 mm).

H. **Chlorinated Polyvinyl Chloride (CPVC) Pipe —** Nom 2 in. diam (or smaller) BLAZEMASTER® SDR13.5 CPVC for use in closed (process or supply) piping systems. The annular space between conduit and periphery of opening shall be min 1/4 in. (6 mm) to max 1-3/8 in. (35 mm).

3. **Firestop System —** The firestop system shall consist of the following:
A. **Packing Material —** (Optional) - In 2 hr wall assemblies, foam backer rod firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material* — Caulk —** Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. Additional fill material to be installed such that a min 1/4 in. (6 mm) crown is formed around the penetrating item.
DAP PRODUCTS INC — DAP Blockade

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2017-03-07

brr

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Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES™ CHOICE HOTELS

Drawn By:
ALW
Checked By:
JL
Document Date:
08/16/23
Protocycle:
WSS_v4_2019.1 (01/31/19)
Bulletins Through:
WSS_v2_B08

Project No.

31000541

Professional Seal

FOR REFERENCE ONLY

Sheet Title

FIRE RATED ASSEMBLIES

Sheet No.

A10.8

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UL Product iQ™

XHEZ.W-L- - Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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XHEZ - Through-penetration Firestop Systems

XHEZ7 - Through-penetration Firestop Systems Certified for Canada

See General Information for Through-penetration Firestop Systems

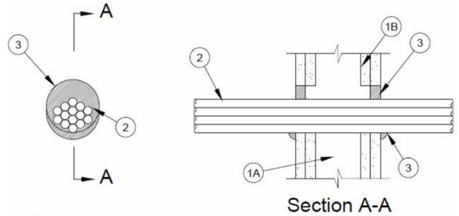
See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-3434

February 28, 2017

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 and 2 Hr (see Item 1)	F Rating — 1 and 2 Hr (see Item 1)
T Rating —3/4, 1-1/2 Hr (see Item 2)	FT Rating —3/4, 1-1/2 Hr (see Item 2)
	FH Rating — 1 and 2 Hr (see Item 1)
	FTH Rating —3/4, 1-1/2 Hr (see Item 2)

DETAIL 17 - CABLE PEN. @ WALL
UL DESIGN NO. W-L-3434
F RATING - 1 & 2 HOUR (SEE ITEM 1)
T RATING - 3/4, 1 1/2 HOUR (SEE ITEM 2)



Section A-A

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC

B. **Gypsum Board* —** 5/8 in. (16 mm) thick with square or tapered edges, The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400, V400 or W400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 4 in. (104 mm).

The hourly F and T Ratings of the firestop system are dependent on the hourly fire rating of the wall assembly in which it is installed.

2. **Cables —** Aggregate cross-sectional area of cables to be min 20 percent to max 45 percent of the aggregate cross-sectional area of the opening or a 1 in. (25.4 mm) to max 3 in. (76 mm) diameter cable bundle. Cables to be tightly bundled and rigidly supported on both sides of wall assembly. The annular space between the cables and the periphery of opening shall be min 0 in. (point contact) to max 2 in. (51 mm). Any combination of following types and sizes of copper conductor cables may be used:

A. Max 2/C No. 18 AWG copper conductor thermostat cable with polyvinyl chloride (PVC) insulation and jacket materials.

B. Max 4 pair No. 24 AWG copper conductor Cat5e or Cat 6 telephone cable with PVC insulation and jacket materials.

C. Max RG/U (or smaller) coaxial cable with foam high density polyethylene insulation and PVC jacket materials.

D. Max 3/C (with ground) No. 14 AWG (or smaller) nonmetallic sheathed (Romex) cable with PVC insulation and jacket materials.

E. Max 1/C No. 8 AWG copper conductor cable with PVC insulation and nylon jacket materials.

F. Max 1/C No. 750 kcmil copper conductors with PVC insulation and fabric jacket materials.

G. Max 48MM62.5 micron fiber optic cables with having a min FT-6 rating.

H. Max 62.5/125 micron fiber optic cables with having a min Riser rating.

I. Max 1/C 3/0 AWG copper conductor cable with PVC insulation and jacket materials.

J. Max three copper conductors (with ground) No. 12 AWG **Metal Clad Cable+.**

K. Max four copper conductors No. 2 AWG **Metal Clad Cable+.**
AFC CABLE SYSTEMS INC

L. Max 1/C 2/0 AWG non halogen copper conductor cable.

M. Max 300 pair No. 24 AWG copper conductor telephone cable with PVC insulation and jacket materials.

N. Max 30 pair No. 22 copper conductor shielded switchboard cable with PVC insulation and jacket materials.

O. Max RG/6 (or smaller) coaxial cable with fluorinated ethylene (FE) or PVC insulation and jacket materials

P. Max RG/U (or smaller) coaxial cable with fluorinated ethylene (FE) or PVC insulation and jacket materials.

Q. Max 7/C No. 12 AWG copper conductors with PVC insulation and jacket materials.

R. Max 4 pair No. 23 AWG copper conductor Cat 6 telephone cable with PVC insulation and jacket materials.

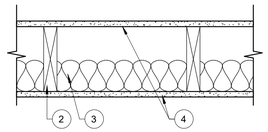
S. Max three copper conductors (with ground) No. 12 AWG steel **Armored Cable+.**

T. Max 04-02 2 SM fiber optic cables having a max diameter of 0.450 in. (11.4 mm).
The T Rating is limited to 3/4 hour if cables F, M, N, I and L are installed.

3. **Fill, Void or Cavity Material* — Putty —** Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. A min 1/2 in. (13 mm) diam crown bead of putty shall be applied at the periphery of the cables in opening interface in addition to the of the putty in the opening on both sides of the wall.
RECTORSEAL — Metacaulk Fire Rated Putty, Biostop Fire Rated Putty

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2017-02-28



FIRE EXPOSED SIDE

5/8" GYPSUM WALLBOARD	= 30 MINUTES
5/8" GYPSUM WALLBOARD	= 30 MINUTES
2X WOOD JOISTS	= 10 MINUTES

COMBINED ASSEMBLY FIRE RESISTANCE RATING = 70 MINUTES

1. Sheathing: Per struc.
2. 2X Joist: Per struc.
3. Glass Fiber Insulation: 3 1/2" glass fiber insulation at bottom of floor cavity, or blown full of insulation.
4. Gypsum Board: Two layers of 5/8" thick, gypsum board complying with ASTM C36.

TABLE 722.6.2(1) TIME ASSIGNED TO WALLBOARD MEMBRANES[a, b, c, d]

DESCRIPTION OF FINISH	TIME*(minutes)
3/8-inch wood structural panel bonded with exterior glue	5
15/32-inch wood structural panel bonded with exterior glue	10
15/32-inch wood structural panel bonded with exterior glue	15
5/8-inch gypsum wallboard	10
1/2-inch gypsum wallboard	15
5/8-inch gypsum wallboard	30
1/2-inch Type X gypsum wallboard	25
5/8-inch Type X gypsum wallboard	40
Double 3/8-inch gypsum wallboard	25
1/2-inch + 5/8-inch gypsum wallboard	35
Double 1/2-inch gypsum wallboard	40

For SI: 1 inch = 25.4 mm.

a. These values apply only where membranes are installed on framing members that are spaced 16 inches o.c. or less.
b. Gypsum wallboard installed over framing or furring shall be installed so that all edges are supported, except 3/8-inch Type X gypsum wallboard shall be permitted to be installed horizontally with the horizontal joints staggered 24 inches each side and unsupported but finished.
c. On wood frame floor/ceiling or roof/ceiling assemblies, gypsum board shall be installed with the long dimension perpendicular to framing members and shall have all joints finished.
d. The membrane on the unexposed side shall not be included in determining the fire resistance of the assembly. Where dissimilar membranes are used on a wall assembly, the calculation shall be made from the least fire-resistant (weaker) side.
e. The time assigned is not a finished rating.

TABLE 722.6.2(2) TIME ASSIGNED FOR CONTRIBUTION OF WOOD FRAME [a, b, c]

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

For SI: 1 inch = 25.4 mm.

a. This table does not apply to studs or joists spaced more than 16 inches o.c.
b. All studs shall be nominal 2 x 4 and all joists shall have a nominal thickness of not less than 2 inches.
c. Allowable spans for joists shall be determined in accordance with Sections 2308.4.2.1, 2308.7.1 and 2308.7.2.

DETAIL 18 - ROOF/CEILING ASSEMBLY
IBC TABLES: 722.6.2(1) & 722.6.2(2)
FIRE RATING - 1 HOUR

brr

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Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

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JL
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FOR REFERENCE ONLY

Sheet Title

FIRE RATED ASSEMBLIES

Sheet No.

A10.9

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MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	DIFFUSER
	RETURN AIR GRILLE
	RETURN OR EXHAUST DUCT UP
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN OR EXHAUST DUCT DOWN
	ROUND DUCT DOWN
	ROUND DUCT UP
	VANED ELBOW
	LOW PRESSURE FLEX DUCT
	45° TAKEOFF FITTING
	MANUAL VOLUME DAMPER
FSD	FIRE/SMOKE DAMPER
FD	FIRE DAMPER

SYMBOL	DESCRIPTION
X / X-X	EQUIPMENT (SEE SCHEDULE); EQUIPMENT NUMBER
X / X	INDICATES DETAIL, PLAN, SECTION, AND/OR DIAGRAM(APPLIES ONLY WHERE INDICATED ON DRAWINGS); INDICATES DRAWING ON WHICH DETAIL APPEARS
TYP / X	INDICATES TYPICAL DETAIL (APPLIES TO ALL CONTRACT DRAWINGS); INDICATES DRAWING ON WHICH DETAIL APPEARS
X / X	INDICATES SECTION NUMBER; INDICATES ON WHICH DRAWING SECTION APPEARS
X	INDICATES REVISION & NUMBER
	CONNECT NEW TO EXISTING
#	SHEET NOTE NUMBER
S1 / 10"Ø / 300	DIFFUSER TYPE / SIZE / CFM
T	THERMOSTAT
H	HUMIDISTAT
S	WALL SWITCH
SD	DUCT MOUNTED SMOKE DETECTOR
MD	MOTORIZED DAMPER ACTUATOR
UC	DOOR UNDERCUT

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
COD	CABLE OPERATED DAMPER
COMP	COMPRESSOR
DB	DRY BULB
DN	DOWN
DX	DIRECT EXPANSION
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EFF	EFFICIENCY
ESP	EXTERNAL STATIC PRESSURE
ETC	AND SO FORTH
EX	EXHAUST
°F	DEGREES FAHRENHEIT
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FT	FEET
GPM	GALLONS PER MINUTE
GRS/LB	GRAINS PER POUND
HP	HORSEPOWER
HZ	HERTZ
IN	INCHES
KW	KILOWATT
MBH	THOUSANDS OF BTU PER HOUR
MIN	MINIMUM
NEG	NEGATIVE
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
PH	PHASE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RH	RELATIVE HUMIDITY
SA	SUPPLY AIR
SH	SENSIBLE HEAT
SP	STATIC PRESSURE
TEMP	TEMPERATURE
TYP	TYPICAL
UC	UNDERCUT
VOLT	VOLTAGE
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN

ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	MANUFACTURER	MODEL	EXHAUST AIR (CFM)	OUTDOOR AIR (CFM)	SENSIBLE EFFECTIVENESS (HEATING)	RECOVERY EFFICIENCY (COOLING)	S.P. (IN)	SPEED (RPM)	NOISE (SCONES)	ELECTRICAL			REMARKS
										WATTS	AMPS	V/HZ	
ERV-1	PANASONIC	FV-04VE1	40	30	66% @ 30 CFM AND 32°F	36% @ 29 CFM AND 95°F	0.1	1479	0.8	0.8	0.15	120/60	1,2

REMARKS:

1. PROVIDE PANASONIC EXTERIOR WALL CAP AND CONCENTRIC VENT ADAPTOR (FV-WC04VE1).
2. PROVIDE WITH FV-WCSW21-W TWO FUNCTION CONTROL SWITCH WITH LABELS SET TO OPERATE UNIT ON HIGH CONTINUOUSLY.

ROOF HOOD SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	USE	MATERIAL	CFM	S.P. (IN)	HOOD VELOCITY (FPM)	FREE AREA (SQ FT)	THROAT VELOCITY (FPM)	DIMENSIONS (IN)		WEIGHT (LBS)	REMARKS
											THROAT	HOOD		
RH-1	COOK	1624-GR	LOW CONTOUR	EXHAUST	ALUMINUM	880	.01	273	3	330	16x24	31x39	142	1,2,3
RH-2	COOK	1218-GR	LOW CONTOUR	EXHAUST	ALUMINUM	475	.01	117	4	238	12x18	31x39	137	1,2,3

REMARKS:

1. PROVIDE WITH 14" HIGH FACTORY ROOF CURB MATCHING ROOF SLOPE FOR LEVEL INSTALLATION OF HOOD.
2. PROVIDE WITH BACKDRAFT DAMPER.
3. PROVIDE WITH ALUMINUM BIRD SCREEN.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	USE	MOUNTING	MATERIAL	FINISH	DEFLECTION / THROW	LOCATION	ACCESSORIES	REMARKS
S-1	TITUS	272 FS	SUPPLY	SURFACE	ALUMINUM	WHITE	DOUBLE	WALL	OBD	1,2,3
S-2	TITUS	250-AA	SUPPLY	SURFACE	ALUMINUM	WHITE	4-WAY	CEILING	COD	1,3,4
T-1	TITUS	350 FL	RETURN	SURFACE	ALUMINUM	WHITE	SINGLE	WALL	OBD	1,2,3
R-1	TITUS	350 FL	TRANSFER	SURFACE	ALUMINUM	WHITE	SINGLE	WALL	OBD	1,2,3

REMARKS:

1. REFER TO CALLOUTS ON PLANS FOR NECK SIZE AND CFM.
2. PROVIDE REQUIRED RECTANGULAR TO ROUND ADAPTERS AT ALL GRD CONNECTIONS.
3. PAINT, FLAT BLACK, ALL INTERIOR DUCT SURFACES VISIBLE THROUGH FACE OF GRILLE/DIFFUSER (BY MECHANICAL CONTRACTOR).
4. PROVIDE WITH RUSKIN CFD4W CEILING RADIATION DAMPER ASSEMBLY FOR WOOD JOIST CONSTRUCTION.

PACKAGED TERMINAL AIR CONDITIONER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVES	AIRFLOW (CFM)	VENTILATION (CFM)	COOLING CAPACITY (BTUH)	EER	NOMINAL HEATING (BTUH)	ELECTRIC HEAT (KW)	ELECTRICAL INFORMATION						REMARKS
										VOLTAGE	PHASE	AMPS	WATTS	MCA	MOCP	
PTAC-1	AMANA	PTC073K25AXXX**	GUEST ROOMS	335	65	7,000	12.4	6,800	2.1	208	1	10.1	2,115	14.1	15	1,2,3,4,5,6,7
PTAC-2	AMANA	PTC153K35AVXX**	CORRIDORS	385	95	14,500	10.0	9,900	3.0	208	1	14.1	2,935	19.5	20	1,2,3,4,5,6,8,9
PTAC-3	AMANA	PBE093G35**	ELECTRICAL ROOM	265	0	9,100	9.8	9,000	2.9	208	1	14.0	2,900	19.4	20	1,2,3,4,9

REMARKS:

1. EQUIPMENT SELECTIONS BASED ON AMANA BRAND THRU-WALL CHASSIS UNITS WITH ELECTRIC COOLING & HEATING. FRONT COVER & FACTORY INSTALLED POWER CORD INCLUDED WS900E 42" WIDE STONEWOOD BEIGE COLOR INSULATED METAL WALL SLEEVE & PGK01TB STONEWOOD BEIGE COLOR EXTERIOR ARCHITECTURAL GRILLE REQUIRED FOR ALL PTC UNITS. PBWS01A 26" WIDE STONEWOOD BEIGE COLOR INSULATED METAL WALL SLEEVE & PBAGK01TB STONEWOOD BEIGE COLOR EXTERIOR ARCHITECTURAL GRILL REQUIRED FOR PBE UNIT.
2. PTC & PBE CHASSIS UNITS TO BE PROVIDED WITH PERMANENT SLIDE-OUT INDOOR INTAKE AIR FILTERS.
3. COOLING CAPACITIES & EER ARE BASED ON AHRI CONDITIONS AT 208/60/1. UNITS SHALL OPERATE AT A MINIMUM OF 197 VOLTS AND A MAXIMUM OF 253 VOLTS.
4. PTC AND PBE CHASSIS UNITS TO BE INSTALLED INTO WALL SLEEVE AND EXTERIOR GRILLE PER NOTE #1.
5. FOR ALL PTC CHASSIS UNITS, FIELD PROGRAM ROOM # INTO PTAC THERMOSTAT.
6. ALL PTC CHASSIS UNITS TO HAVE FACTORY PROVIDED RF ANTENNA.
7. PROVIDE DD01E RF WIRELESS MOTION SENSOR / DOOR SWITCH IN ALL GUESTROOMS (SEE ARCH PLANS FOR LOCATION).
8. PROVIDE DS01E RF WIRELESS WALL THERMOSTAT WITH HONEYWELL-TG512A1009 LOCKABLE COVER & KL03E KEY LOCK KIT ON ALL PTC153K35AVXX UNITS WITH FACTORY INSTALLED POWER VENT AT END OF CORRIDORS. SEE ARCH PLANS FOR LOCATIONS.
9. UNITS PROVIDED IN NON-GUEST ROOM AREAS (CORRIDORS, ELECTRICAL ROOM) DO NOT REQUIRE DD01E RF WIRELESS MOTION SENSOR / DOOR SWITCH.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	SERVES	AIRFLOW (CFM)	ESP (IN)	FAN DATA			MOTOR DATA				CONTROL TYPE	WEIGHT (LBS)	REMARKS
						TYPE	RPM	SONES	DRIVE	WATTS	VOLTAGE	PHASE			
EF-1	COOK	GC-128	GUEST ROOMS	55	0.25	CENTRIFUGAL	708	1	DIRECT	29	120	1	WALL SWITCH	25	1,2,3,4,7,8
EF-2	COOK	GC-128	UTILITY ROOM 440	35	0.25	CENTRIFUGAL	587	1.5	DIRECT	29	120	1	CONTINUOUS	25	1,2,3,5,8
EF-3	COOK	GC-542	MECHANICAL ROOM	300	0.25	CENTRIFUGAL	1387	4.5	DIRECT	100	120	1	THERMOSTAT	45	1,2,3,5,6,7,8
EF-4	COOK	GC-146	RESTROOM 139	75	0.38	CENTRIFUGAL	900	2	DIRECT	36	120	1	SWITCH W/ LIGHTS	25	1,2,3,4,8
EF-5	COOK	GC-128	VENDING	35	0.25	CENTRIFUGAL	587	1.5	DIRECT	29	120	1	CONTINUOUS	25	1,2,3,5,8
EF-6	COOK	GC-128	UTILITY ROOM 340	35	0.25	CENTRIFUGAL	587	1.5	DIRECT	29	120	1	CONTINUOUS	25	1,2,3,5,8

REMARKS:

1. PROVIDE WITH FACTORY DISCONNECTS, BACKDRAFT DAMPERS, VIBRATION ISOLATION KITS, CEILING RADIATION DAMPERS, AND THERMOSTAT WHERE NOTED AS "CONTROL TYPE".
2. PROVIDE SPEED CONTROLLERS WITH DIRECT DRIVE MOTORS.
3. ALL SWITCHES, INTERLOCKS, RELAYS, TRANSFORMERS, TIMECLOCKS, MOTOR STARTERS, ETC. PROVIDED BY THE DIVISION 26 SEE ELECTRICAL PLANS.
4. PROVIDE WHITE, NON-YELLOWING, HIGH IMPACT STYRENE INJECTION MOLDED CEILING GRILLE.
5. PROVIDE WHITE ALUMINUM CEILING GRILLE.
6. PROVIDE COOLING ONLY THERMOSTAT FOR EF-3.
7. ACCEPTABLE ALTERNATE BROAN FANS MAY BE USED, MODEL #L100 (EF-1) AND #L300 (EF-3).
8. REFER TO SPECIFICATIONS FOR FAN TYPES AND ACCESSORIES.

UNIT HEATER SCHEDULE

MARK	MANUFACTURER	SERIES	MODEL	TYPE	SERVES	HEATING (BTUH)	ELECTRICAL DATA				WEIGHT (LBS)	REMARKS
							VOLTAGE	PHASE	KW	AMPS		
EUH-1	QMARK	EFF	EFF-4004	ELECTRIC	VESTIBULE 135	10,239	208	1	3.0	14.4	25	1
EUH-2	QMARK	EFF	EFF-4004	ELECTRIC	MECHANICAL ROOM 140	10,239	208	1	3.0	14.4	25	1
EUH-3	QMARK	AWH	AWH-4404	ELECTRIC	STAIRS 152	10,235	208	1	3.0	14.4	25	2
EUH-4	QMARK	AWH	AWH-4404	ELECTRIC	STAIRS 150	10,235	208	1	3.0	14.4	25	2

REMARKS:

1. PROVIDE WITH 208/24V TRANSFORMER & 24V SECONDARY CONTROL RELAY, SURFACE MOUNTING FRAME, AND SINGLE-POLE THERMOSTAT.
2. PROVIDE WITH UNIT MOUNTED TAMPER RESISTANT LOW VOLTAGE THERMOSTAT(40°F-90°F), POWER DISCONNECT SWITCH, WALL MOUNTING BRACKET.

HEAT PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	SERVES	NOMINAL COOLING (TONS)	AMBIENT TEMPERATURE (°F)	SEER2	CORRESPONDING INDOOR UNIT	VOLTAGE	PHASE	MCA	MOCP	WEIGHT (LBS)	REMARKS
HP-1	RUUD	RP14AZ-36AJ	LOBBY/OFFICE	3	95	14.3	FCU-1	208	1	21	25	202	1,2,3
HP-2	RUUD	RP14AZ-24AJ	STAFF LAUNDRY	2	95	14.3	FCU-2	208	1	15	20	151	1,2,3
HP-3	RUUD	RP14AZ-48AJ	GUEST LAUNDRY	4	95	14.3	FCU-3	208	1	29	35	238	1,2,3
HP-4	RUUD	RP14AZ-24AJ	ELEVATOR...	2	95	14.3	FCU-4	208	1	15	20	151	1,2,3
HP-5	CARRIER	38MARBQ12A	UTILITY ROOM...	1	95	25.5	FCU-5	208	1	15	15	75	1,2,3
HP-6	CARRIER	38MARB24A	CORRIDOR 100	2	95	20.5	FCU-6	208	1	25	35	135	1,2,3

REMARKS:

1. PROVIDE WITH COMPRESSOR TIME DELAY CONTROLS, BI-DIRECTION FILTER DRIER, START KIT, LOW AMBIENT CONTROLS, AND HAIL GUARDS.
2. REFER TO ASSOCIATED INDOOR UNIT SCHEDULE FOR ENTERING AND LEAVING TEMPERATURES AT THE COIL.
3. PROVIDE WITH UNIT MOUNTED TAMPER RESISTANT LOW VOLTAGE THERMOSTAT (40°F-90°F), POWER DISCONNECT SWITCH, WALL MOUNTING BRACKET.

FAN COIL UNIT SCHEDULE

GENERAL					AIRFLOW			COOLING						HEATING		ELECTRICAL				MOTOR		WEIGHT	REMARKS
MARK	MANUFACTURER	MODEL	TYPE	SERVES	ESP (IN)	CFM	MINIMUM OUTDOOR AIR (CFM)	NOMINAL REQUIRED CAPACITY (TONS)	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	AMBIENT AIR (°F)	EDB / EWB (°F)	LDB / LWB (°F)	MODEL	TOTAL CAPACITY (KW)	VOLTAGE	PHASE	MCA	MOCP	HP	TYPE		
FCU-1	RUUD	RH2TZ3617STANJ	UPFLOW	LOBBY / OFFICE	0.5	1200	175	3	35.2	26.2	95	80/67	57/55	RXBH-1724?07J	5.4	208	1	36	40	1/2	DIRECT	125	1,2,3,4,5
FCU-2	RUUD	RH2TZ2417STANJ	UPFLOW	STAFF LAUNDRY	0.5	800	50	2	22.8	17.5	95	80/67	57/55	RXBH-1724?07J	5.4	208	1	35	40	1/3	DIRECT	100	1,2,3,4,5
FCU-3	RUUD	RH2TZ4821STANJ	UPFLOW	GUEST LAUNDRY	0.5	1600	150	4	45.5	34.9	95	80/67	57/55	RXBH-1724?07J	5.4	208	1	38	40	3/4	DIRECT	150	1,2,3,4,5
FCU-4	RUUD	RH2TZ2417STANJ	DOWNFLOW	ELEVATOR SHAFT	0.5	800	0	2	22.8	17.5	95	80/67	57/55	--	--	208	1	3	15	1/3	DIRECT	100	1,2,3,4
FCU-5	CARRIER	40MAHBQ12A	WALL MOUNTED	UTILITY ROOM 240	--	382	0	1	12.77	9.1	95	80/67	57/55	--	--	208	1	0.31	15	.027	--	23	1,2,3,4,6
FCU-6	CARRIER	40MBCAQ24A	CASSETTE	CORRIDOR 100	--	764	0	2	21.07	15.9	95	80/67	57/55	--	--	208	1	1	35	0.06	--	50	1,2,3,4,5

REMARKS:

1. PROVIDE WITH FACTORY FURNISHED PIPING & VALVE KIT. PROVIDE ALL VALVES & ACCESSORIES FOR DX CONNECTIONS.
2. PROVIDE WITH FAN SWITCH, CONTROL TRANSFORMER AND ALL NECESSARY CONTROL ACCESSORIES.
3. PROVIDE WITH (2) SETS OF FILTERS.
4. ROUTE CONDENSATE TO NEAREST FLOOR DRAIN. PROVIDE WATER SENSING SWITCH IN CONDENSATE PAN HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM. THE UNIT SHALL SHUT DOWN UPON ALARM FROM SWITCH.
5. PROVIDE THERMOSTAT AND HONEYWELL-TG512A1009 LOCKABLE COVER.
6. PROVIDE WITH UNIT MOUNTED THERMOSTAT PER MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES:

. EXISTING EQUIPMENT, DUCTWORK, AND PIPING SIZES AND LOCATIONS ARE SHOWN FOR REFERENCE ONLY. ADJUST EXACT INSTALLATION AND CONNECTION OF NEW ITEMS ACCORDING TO ACTUAL CONDITIONS.

1. DEFINITIONS:
   FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION AND SIMILAR OPERATIONS."
   INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."
   PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."
2. ALL WORK SHALL COMPLY WITH CURRENT FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES AS WELL AS THE CONSTRUCTION DOCUMENTS. REPORT ANY CONFLICTS TO THE ENGINEER AS SOON AS THEY ARE DISCOVERED.
3. UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS AND SPECIFICATIONS SHALL INCLUDE THE FURNISHING AND INSTALLATION OF ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE AND OPERATIONAL HVAC SYSTEM. CONTRACTOR SHALL FURNISH THESE EVEN IF ITEMS REQUIRED TO ACHIEVE THIS (I.E. OFFSETS, ISOLATION AND BALANCING DEVICES, MAINTENANCE CLEARANCES, ETC.) ARE NOT SPECIFICALLY SHOWN IN THE DRAWINGS AND SPECIFICATIONS. DRAWINGS AND SPECIFICATIONS CARRY EQUAL IMPORTANCE AND ITEMS LISTED IN EITHER SHALL BE PROVIDED AS IF LISTED IN BOTH. ALSO REVIEW DETAILS AND RISER DIAGRAMS FOR ADDITIONAL ITEMS/INSTRUCTIONS WHETHER SPECIFICALLY REFERRED TO ON PLANS OR NOT.
4. DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED, OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT THE WORK TO ACTUAL CONDITIONS AT THE BUILDINGS. THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. HOWEVER, THIS DOES NOT RELIEVE ANY SUB-CONTRACTOR FROM COORDINATING THEIR WORK WITH ALL OTHER TRADES AND FROM ADJUSTING THEIR WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING A BID TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL ITEMS THAT AFFECT OTHER DISCIPLINES WITH THE CORRESPONDING CONTRACTOR AND THE GENERAL CONTRACTOR IF EQUIPMENT, MATERIALS, ETC. OTHER THAN THOSE SCHEDULED AND SPECIFIED (PENDING PRE-APPROVAL) ARE PROVIDED.
6. COORDINATE AND ADJUST ALL WORK BETWEEN TRADES AND EXISTING CONDITIONS IN ORDER TO ACCOMPLISH A NEAT, INTEGRATED AND EFFICIENT INSTALLATION. CHANGE ORDERS WILL NOT BE GRANTED DUE TO LACK OF COORDINATION WITH JOB CONDITIONS AND/OR OTHER CONTRACTORS.
8. GENERAL CONTRACTOR SHALL CUT AND PATCH FLOOR, WALLS, AND ROOF AS REQUIRED FOR INSTALLATION/DEMOLITION OF MECHANICAL SYSTEMS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE OF RELOCATED EQUIPMENT AND MATERIALS DURING CONSTRUCTION. ITEMS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
10. UPON COMPLETION OF THE PROJECT, PROVIDE AS-BUILT DRAWINGS TO THE OWNER, ARCHITECT, AND ENGINEER SHOWING EQUIPMENT, DUCTWORK, PIPING, ETC. THAT DIFFERS FROM CONSTRUCTION DOCUMENTS AS THEY ARE ACTUALLY INSTALLED.
11. EXAMINE THE CONTRACT DOCUMENTS OF ALL TRADES (I.E. THE ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHTING PLAN, FIRE PROTECTION PLAN, ETC.). THE RESPONSIBILITY OF EACH CONTRACTOR IS NOT LIMITED TO THEIR SPECIFIC DISCIPLINE'S DRAWING SHEETS. REFER TO OTHER DISCIPLINES' DRAWING SHEETS AS REQUIRED FOR ADDITIONAL INFORMATION/INSTRUCTIONS.
12. FIRE SEAL ALL PENETRATIONS THROUGH RATED WALLS. SLEEVE IN ENTIRETY WITH APPROPRIATE SLEEVE MATERIAL.
13. MAINTAIN ALL REQUIRED SERVICE, FRESH AIR, AND ROOF EDGE CLEARANCES FOR ALL NEW AND EXISTING EQUIPMENT, DUCTWORK, AND PLUMBING VENTS.
14. COORDINATE NECESSARY EQUIPMENT, DUCTWORK AND PIPING LOCATIONS SO THAT THE FINAL INSTALLATION IS COMPATIBLE WITH THE MATERIALS AND EQUIPMENT OF THE OTHER TRADES.
15. PREPARE SHOP DRAWINGS FOR INSTALLATION OF ALL NEW WORK BEFORE INSTALLATION TO VERIFY COORDINATION OF WORK BETWEEN TRADES.
16. REFER TO THE ARCHITECTURAL DIVISION FOR EXACT LOCATION OF ALL VISIBLE FIXTURES, EQUIPMENT AND AIR DEVICES.
17. MAINTAIN A MARK-UP SET OF DRAWINGS WHICH INDICATE VARIATIONS IN THE ACTUAL INSTALLATION FROM THE ORIGINAL DESIGN. SURRENDER DRAWINGS TO OWNER UPON COMPLETION.
18. VERIFY THE ELECTRICAL SERVICE PROVIDED BY THE ELECTRICAL CONTRACTOR BEFORE ORDERING ANY MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
19. COORDINATE ALL REQUIRED BREAKER SIZES WITH ELECTRICAL CONTRACTOR UPON RECEIPT OF RETURNED SUBMITTALS. NO COST CHANGES WILL BE ACCEPTED FOR FAILURE TO COORDINATE.
20. SUSPEND EACH TRADE'S WORK SEPARATELY FROM THE STRUCTURE. DUCTWORK SHALL BE HELD TIGHT TO STRUCTURE EXCEPT WHERE SHOWN.
21. PROVIDE ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
22. PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCE ALL AROUND ALL EQUIPMENT REQUIRING SAME.
23. PROVIDE FOR SAFE CONDUCT OF THE WORK, CAREFUL REMOVAL AND DISPOSITION OF MATERIALS AND PROTECTION OF PROPERTY WHICH IS TO REMAIN UNDISTURBED.
24. PROVIDE ACCESS DOORS FOR ALL EQUIPMENT, VALVES, CLEANOUTS, ACTUATORS AND CONTROLS WHICH REQUIRE ACCESS FOR ADJUSTMENT OR SERVICING AND WHICH ARE LOCATED IN OTHERWISE INACCESSIBLE LOCATIONS.
25. ALL CURBS, ROOF JACKS, ROOF THIMBLES, SANITARY VENTS, ROOF DRAINS, ETC. SHALL BE COMPATIBLE WITH THE ROOFING SYSTEM TO BE PROVIDED. REFERENCE ARCHITECTURAL DIVISION FOR REQUIRED FLASHING DETAILS.
26. ALL DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. SEE SPECIFICATIONS FOR INSULATION REQUIREMENTS.
27. PROVIDE BALANCING DAMPERS IN EACH GRILLE/DIFFUSER DUCT RUN OUT NOT BEING PROVIDED WITH OBD AT GRILLE (SEE GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE). LOCATE DAMPERS ABOVE ACCESSIBLE CEILINGS.
28. UPON COMPLETION OF INSTALLATION OF NEW HVAC SYSTEMS, ALL SYSTEMS SHALL BE BALANCED BY THE MECHANICAL CONTRACTOR.
29. TRANSITION FROM DUCT SIZE SHOWN ON PLANS TO EQUIPMENT CONNECTION SIZE AT CONNECTION TO EQUIPMENT.
30. WARRANTY: THE ENTIRE MECHANICAL SYSTEM SHALL BE WARRANTED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE OF THE SYSTEM BY THE OWNER.
31. PROVIDE ALL REQUIRED PERMITS, INSPECTIONS AND COORDINATION WITH GOVERNING AUTHORITIES. INSTALLATION TO CONFORM WITH APPLICABLE PROVISIONS OF:
    A. APPLICABLE LOCAL, STATE AND FEDERAL CODES, LAWS AND REGULATIONS.
    B. CURRENT BUILDING AND MECHANICAL CODES.
    C. APPLICABLE PAMPHLETS OF THE NFPA INCLUDING THE NATIONAL ELECTRICAL CODE.
    D. AMERICANS WITH DISABILITIES ACT (ADA).
32. QUALITY CONTROL:
    A. SUBMIT CUT SHEETS ON ALL OF THE SPECIFIED EQUIPMENT.
    B. SUBMIT FOUR (4) COPIES OF ALL SUBMITTALS IN ADDITION TO ANY REQUIRED BY THE CONTRACTOR AND THEIR SUPPLIERS. THESE COPIES SHALL BE RETAINED BY THE OWNER, ARCHITECT AND ENGINEER.

NOTE:

NO SUBSTITUTIONS OF VENDORS OR PRODUCT ON EQUIPMENT UNLESS APPROVED BY WOODSPRING SUITES, THE ARCHITECT AND THE OWNER.

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Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name
WoodSpring Suites

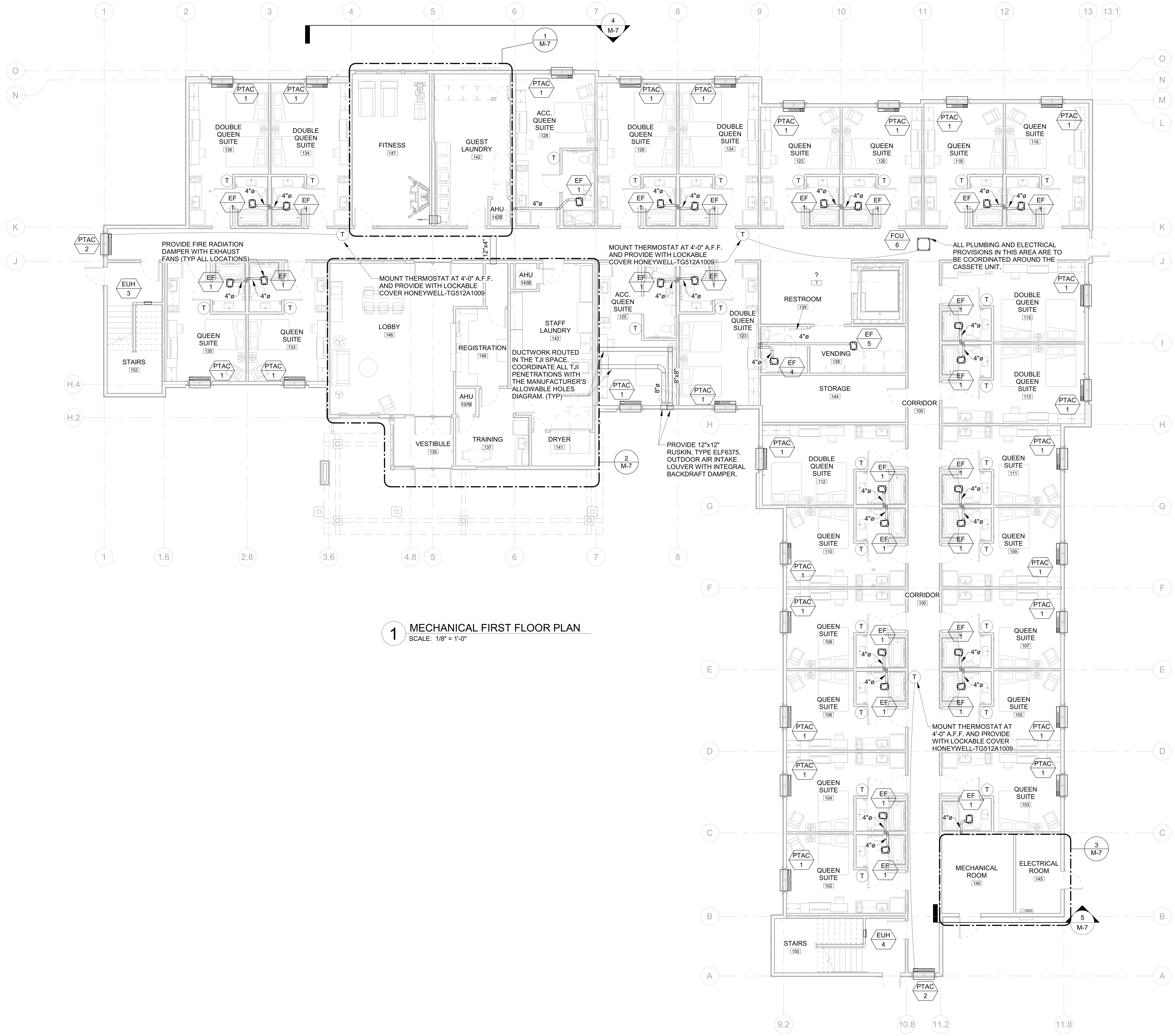
Project Address
1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By: MR / CB / TP
Checked By: AR / CF
Document Date: 08/16/23
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_B08
Project No. 31000541

Professional Seal
STATE OF MISSOURI
RANDALL A. NELSON
NUMBER PE-2007003990
PROFESSIONAL ENGINEER
08/16/23

Sheet Title
MECHANICAL NOTES, SCHEDULES, AND LEGENDS
Sheet No.
M-1



1 MECHANICAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

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NORTH

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RANDALL A. NELSON
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08/16/23

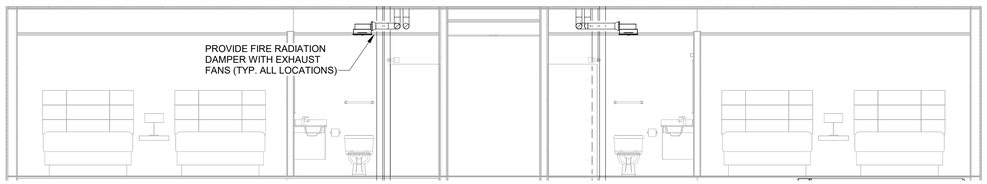
Sheet Title

MECHANICAL FIRST FLOOR PLANS

Sheet No.

M-2

1 MECHANICAL SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 EXHAUST DUCTWORK DETAIL - FIRST, SECOND, & THIRD FLOORS
SCALE: NOT TO SCALE

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PROFESSIONAL ENGINEER
08/16/23

Sheet Title
MECHANICAL SECOND FLOOR PLANS
Sheet No.
M-3

NORTH

1 MECHANICAL THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"

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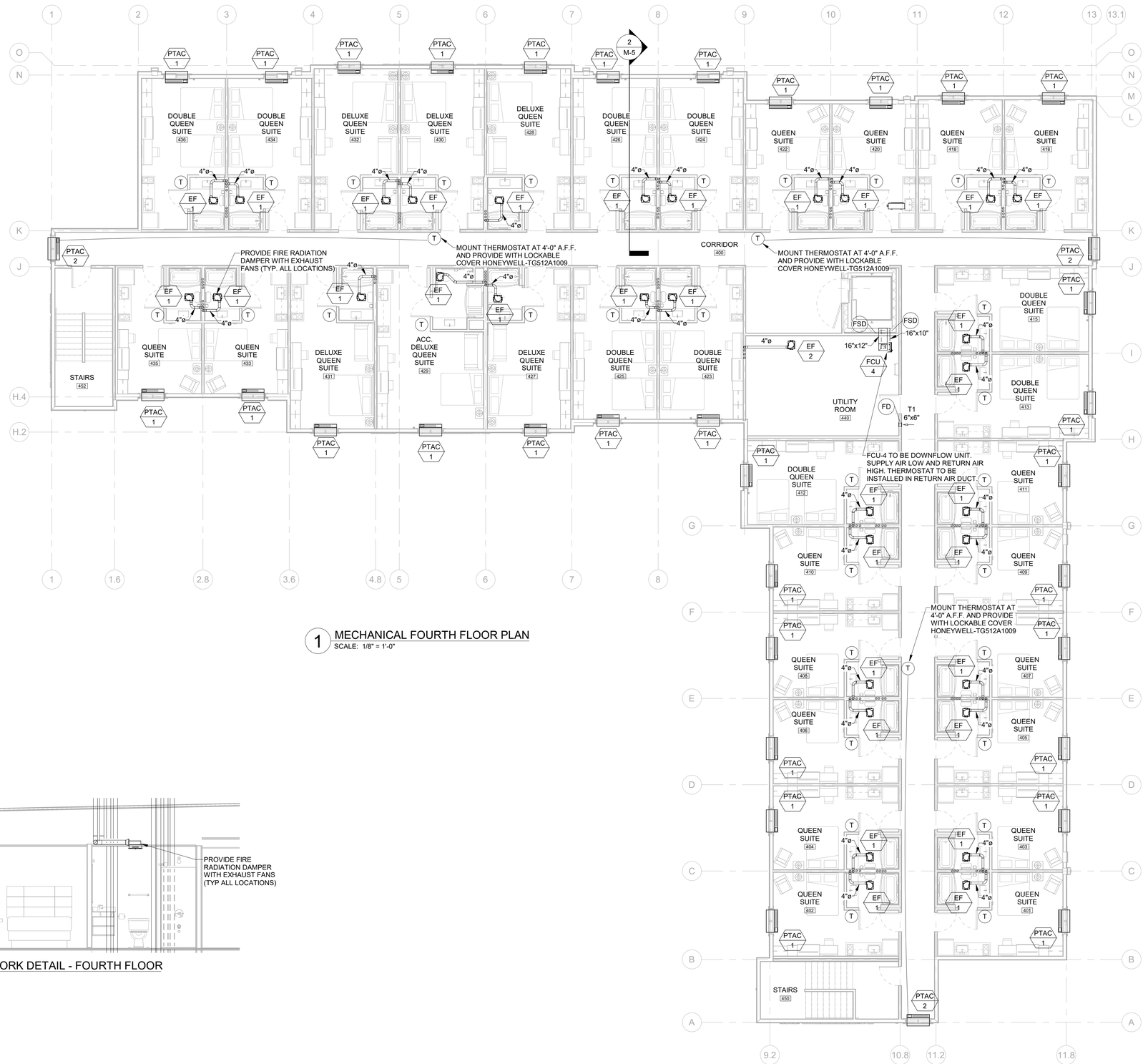
Sheet Title

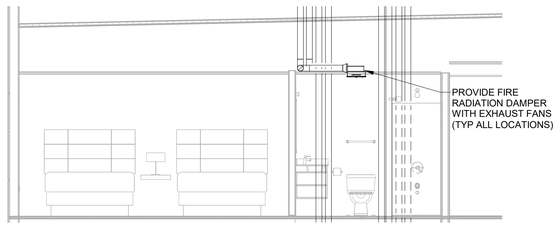
MECHANICAL THIRD FLOOR PLANS

Sheet No.

M-4



1 MECHANICAL FOURTH FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 EXHAUST DUCTWORK DETAIL - FOURTH FLOOR
SCALE: NOT TO SCALE

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08/16/23

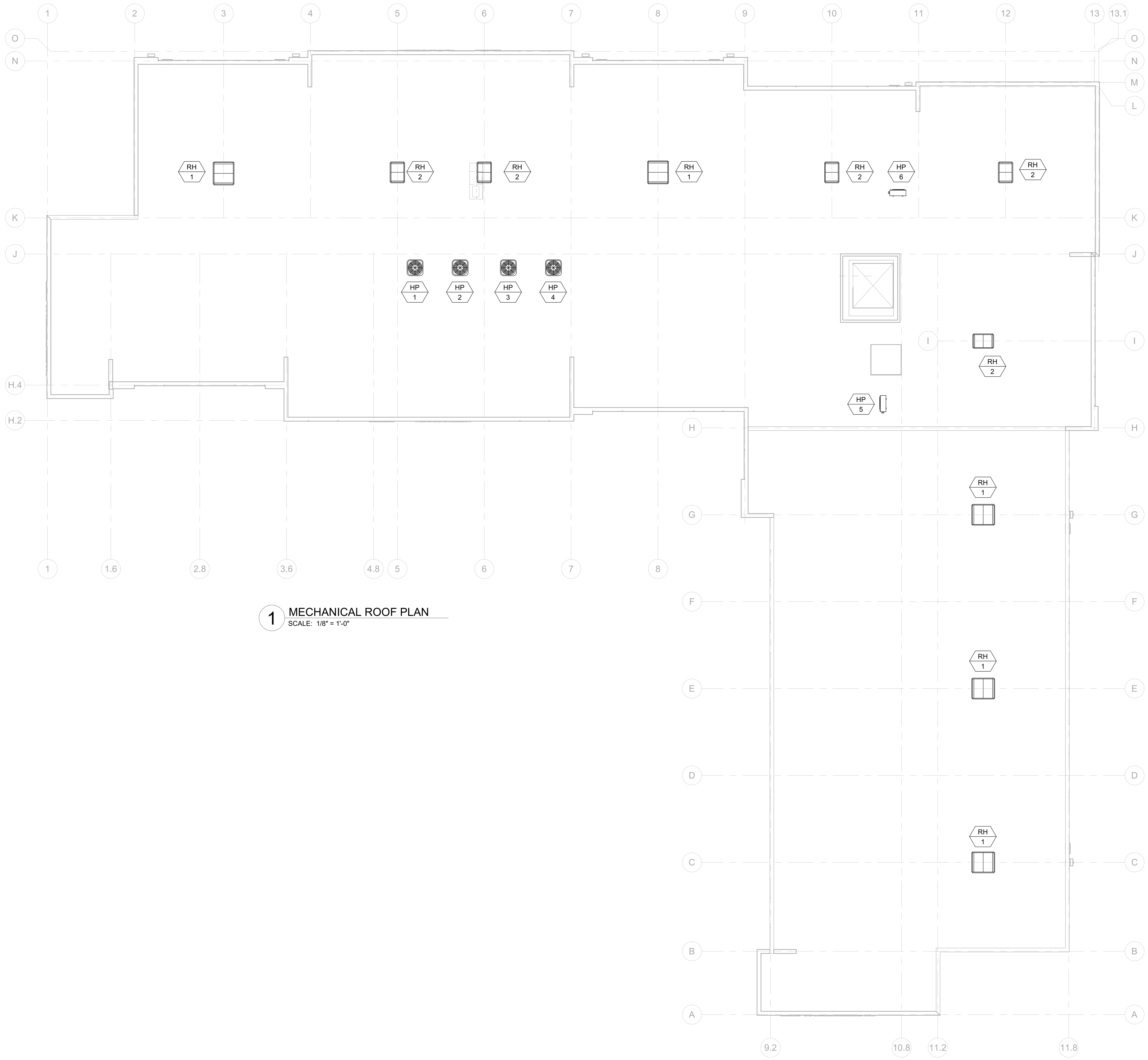
Sheet Title

MECHANICAL FOURTH FLOOR PLANS

Sheet No.

M-5

NORTH



1 MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

NORTH

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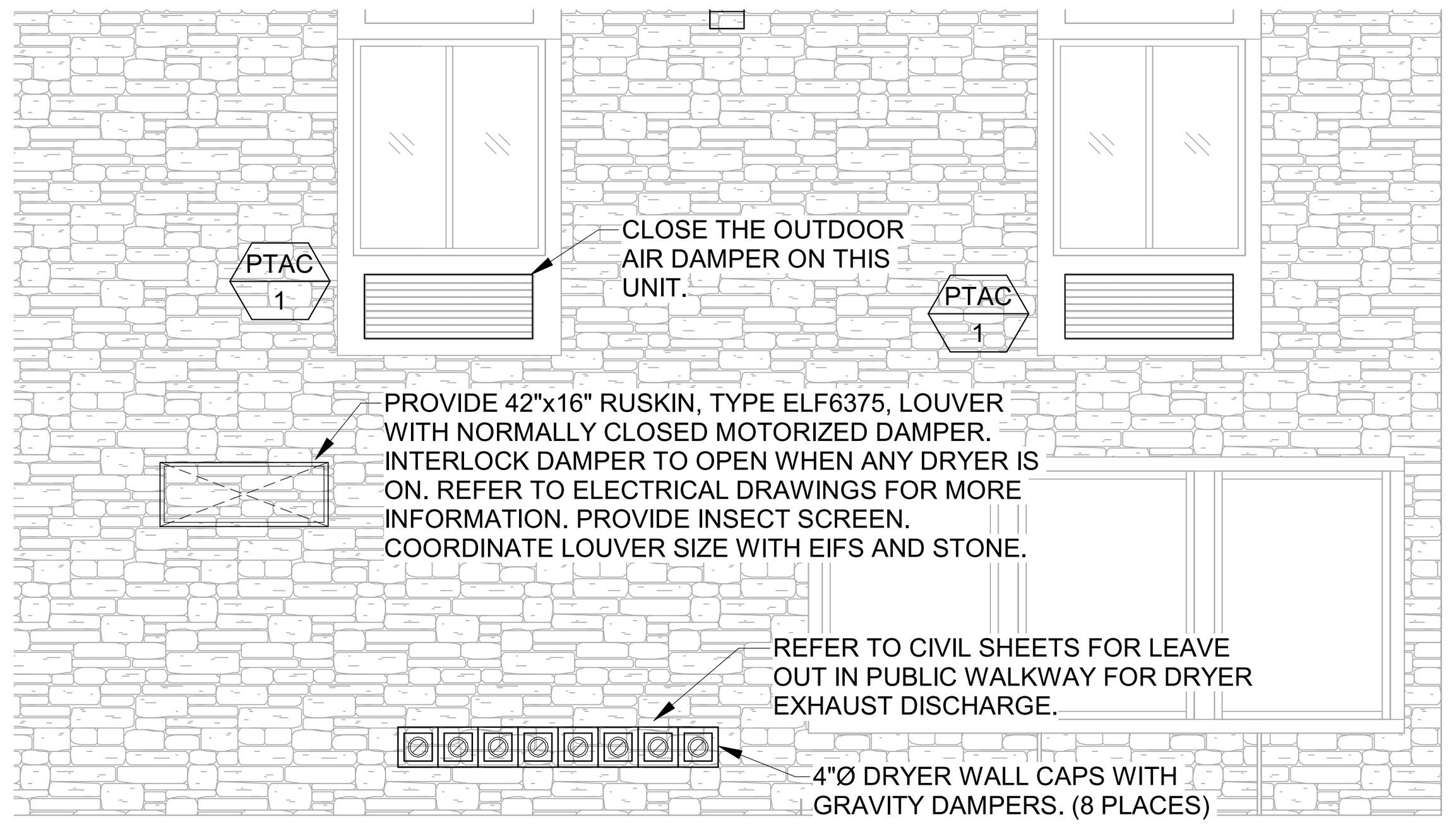
Sheet Title

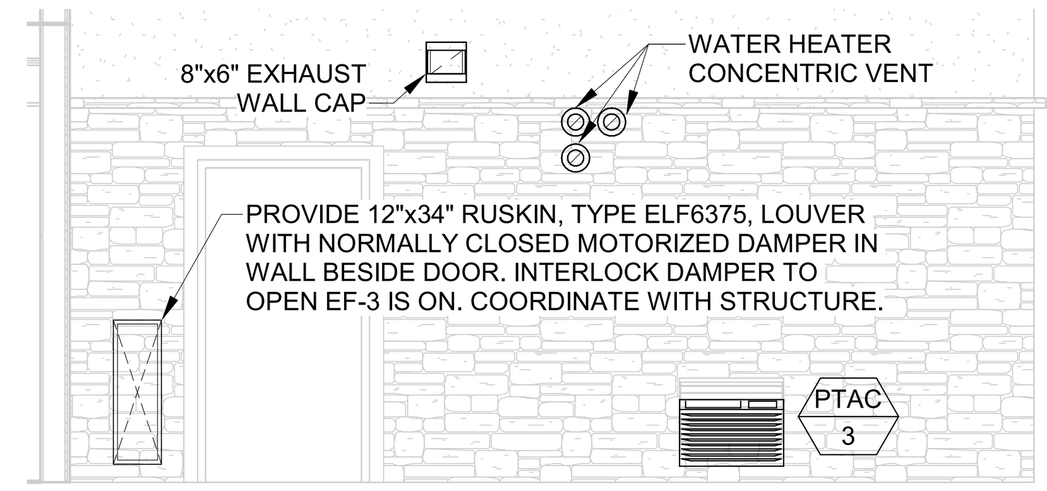
MECHANICAL ROOF PLAN

Sheet No.

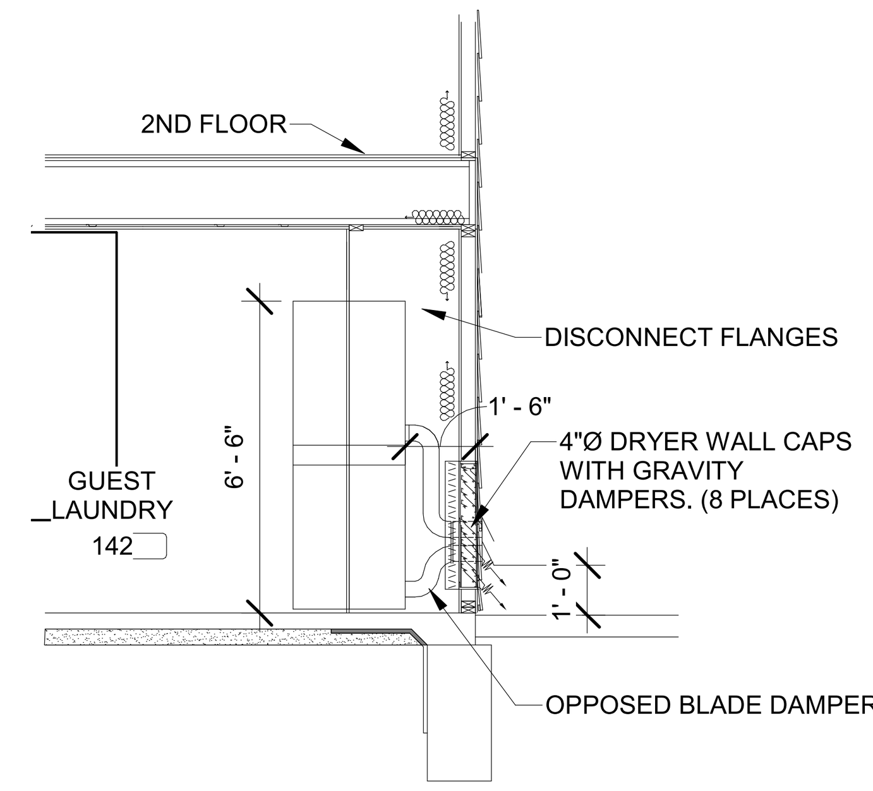
M-6



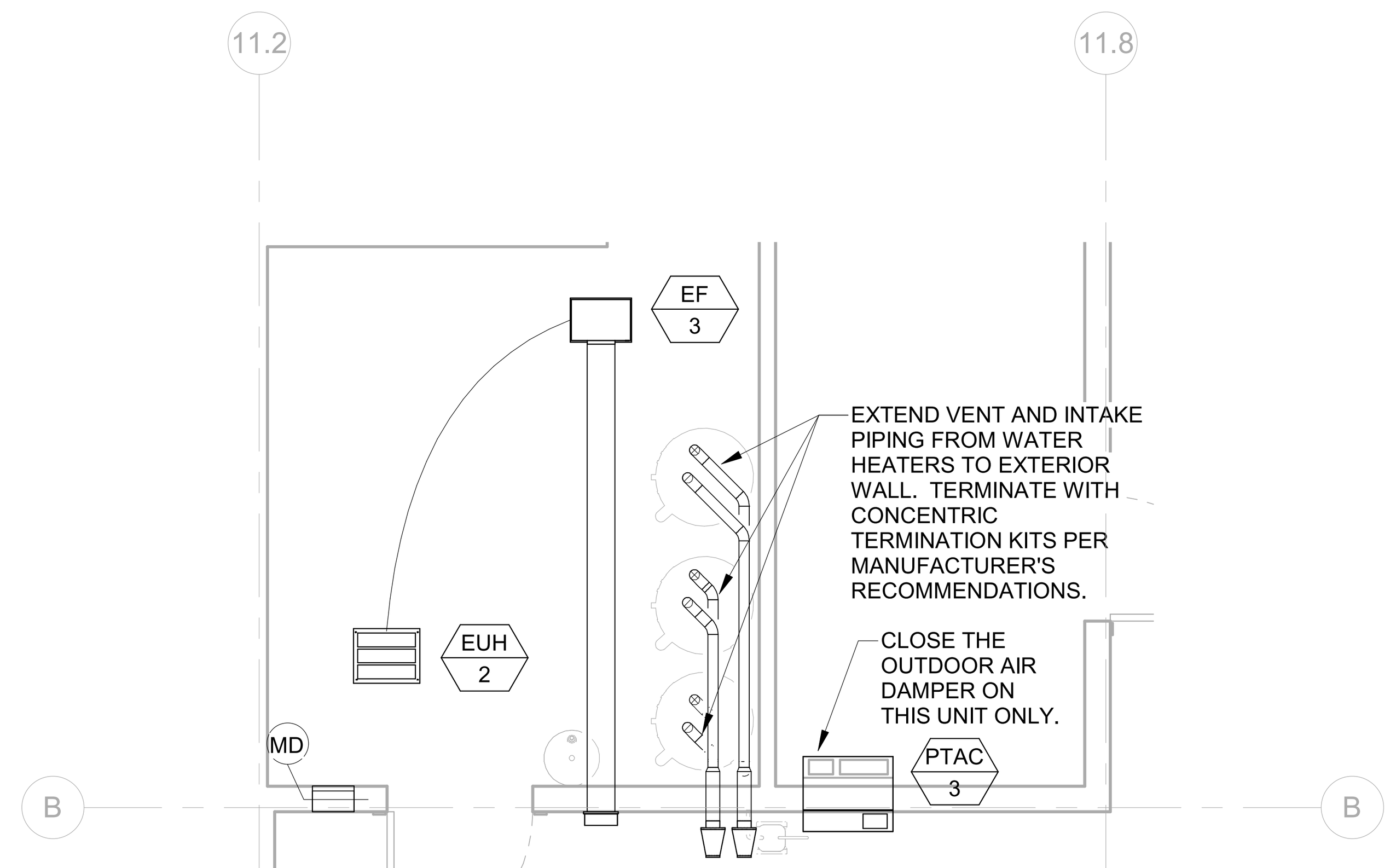
4 ELEVATION AT DRYER EXHAUST
SCALE: 1/4" = 1'-0"



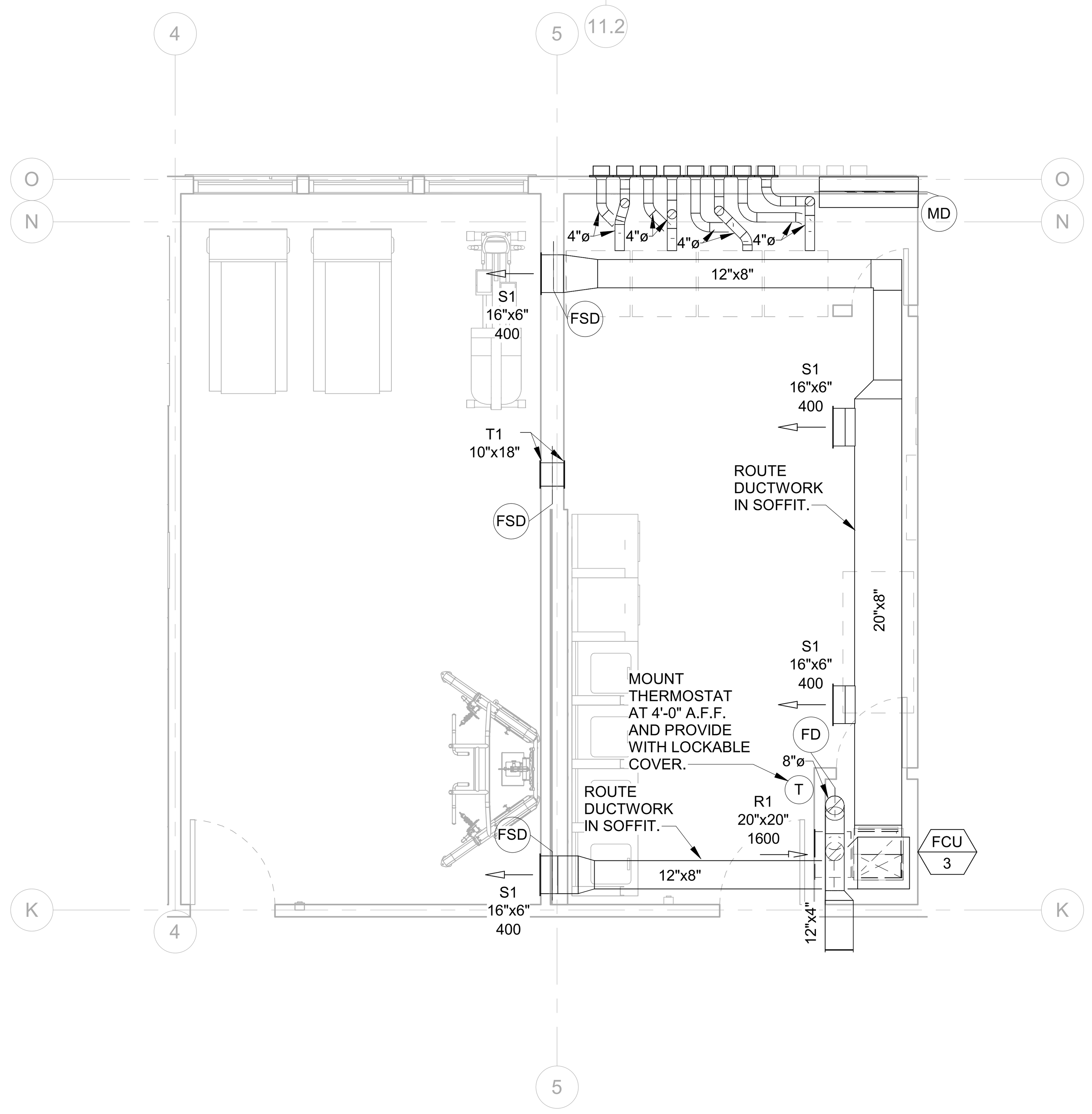
5 ELEVATION AT WATER HEATER FLUES
SCALE: 1/4" = 1'-0"



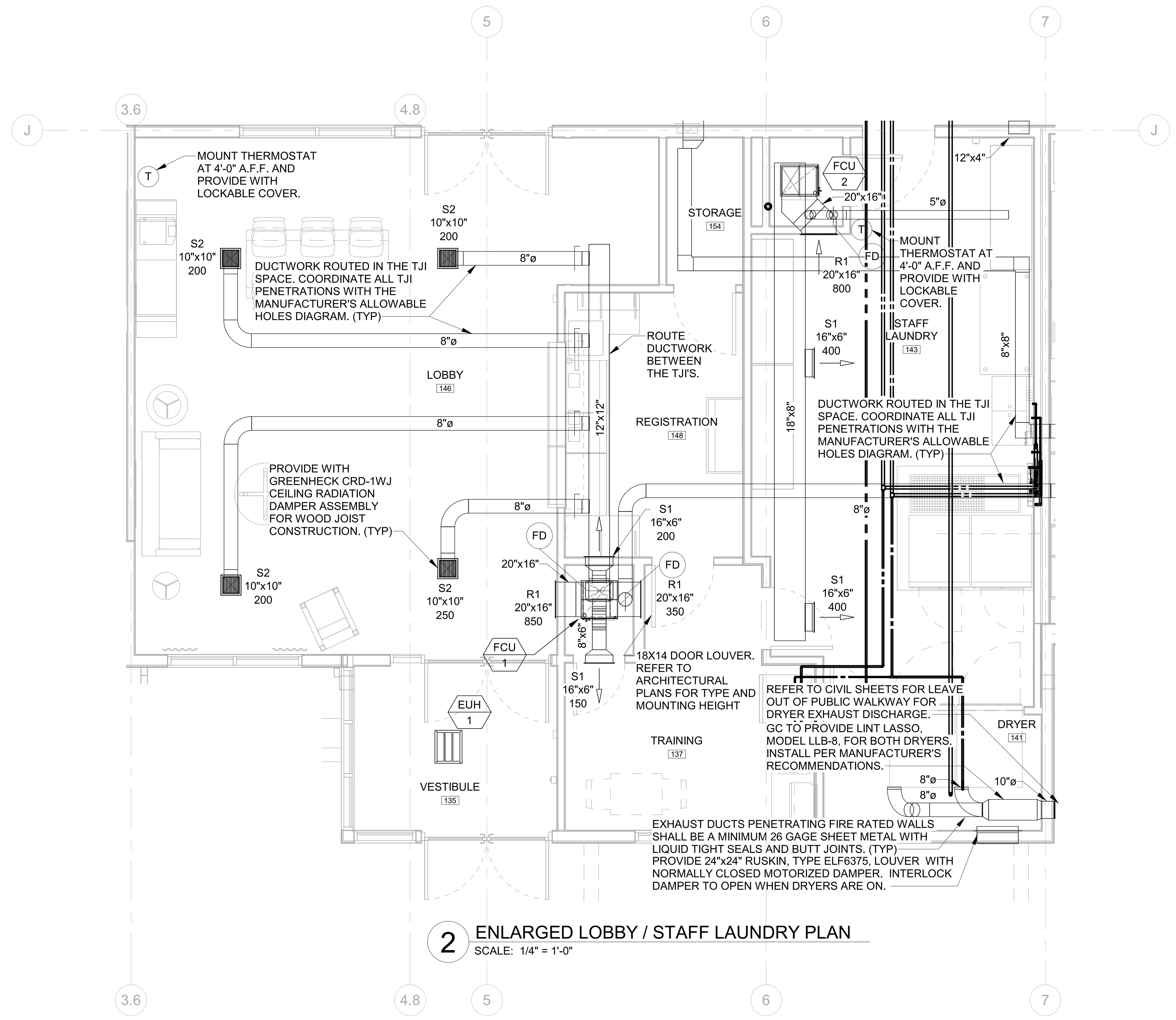
6 SECTION AT GUEST DRYERS
SCALE: 1/4" = 1'-0"



3 ENLARGED MECH. ROOM PLAN
SCALE: 1/4" = 1'-0"



1 ENLARGED GUEST LAUNDRY PLAN
SCALE: 1/4" = 1'-0"



2 ENLARGED LOBBY / STAFF LAUNDRY PLAN
SCALE: 1/4" = 1'-0"

NORTH

8/15/2023 4:43:59 PM

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PROFESSIONAL ENGINEER
08/16/23

Sheet Title
MECHANICAL FIRST FLOOR ENLARGED PLANS

Sheet No.
M-7

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PLUMBING LEGEND

SYMBOL	DESCRIPTION
	GATE VALVE
	CHECK VALVE
	PRESSURE
	SOLENOID VALVE
	GLOBE VALVE (STRAIGHT PATTERN)
	BUTTERFLY VALVE
	BALL VALVE
	GAS COCK
	PLUG VALVE
FCO	FLOOR CLEAN OUT
WCO	WALL CLEAN OUT
CO	CLEAN OUT
	HOSE BIBB
	FREEZE PROOF WALL HYDRANT
	SHOWER HEAD.
	ELBOW DOWN
	ELBOW UP
	TEE UP
	TEE DOWN
	STRAINER
	UNION
	CAP
	FLEX PIPE

SYMBOL	DESCRIPTION
	FLOOR DRAIN / AREA DRAIN
	FLOOR SINK
RD	ROOF DRAIN
ORD	OVERFLOW ROOF DRAIN
	HOT WATER RECIRCULATION PUMP
VTR	PLUMBING VEVT THRU ROOF
	POINT OF CONNECTION (CONNECT NEW TO EXISTING)
XXX	PLUMBING EQUIPMENT DESIGNATION
1 / P1	PLUMBING RISER OR DETAIL DESIGNATION
S	SANITARY SEWER PIPING
ST	STORM SEWER PIPING
V	VENT PIPING
VBF	VENT PIPING (BELOW SLAB)
CW	COLD WATER PIPING
HW	HOT WATER PIPING
CWBF	COLD WATER PIPING (BELOW SLAB)
HWBF	HOT WATER PIPING (BELOW SLAB)
HWR	HOT WATER RECIRCULATING PIPING
GAS	GAS PIPING
CD	CONDENSATE PIPING

ABBREVIATIONS

AD	AREA DRAIN, ACCESS DOOR
AFC	ABOVE FINISH CEILING
AFG	ABOVE FINISH GRADE
AHU	AIR HANDLING UNIT
BFP	BACKFLOW PREVENTER
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
CD	CONDENSATE
CO	CLEANOUT
CW	DOMESTIC COLD WATER
DD	DECK DRAIN
DN	DOWN
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FFA	FROM FLOOR ABOVE
FP	FIRE PROTECTION
FS	FLOOR SINK
G	GAS (NATURAL)
GCO	GRADE CLEANOUT
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HW	DOMESTIC HOT WATER
HWC	HOT WATER CIRCULATION
HWS	HOT WATER SUPPLY
IE	INVERT ELEVATION
LP	LIQUIFIED PETROLEUM
MBH	1000 BTU PER HOUR
N/A	NOT APPLICABLE
ORD	OVERFLOW ROOF DRAIN
OST	STORM OVERFLOW
PD	PUMP DISCHARGE
PIV	POST INDICATOR VALVE
PRV	PRESSURE REDUCING VALVE
REV	REVISION
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SAN	SANITARY
ST	STORM
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TW	TEMPERED WATER
UH	UNIT HEATER
V	VENT PIPE
VTR	VENT THROUGH ROOF
WCO	WALL CLEANOUT
WH	WALL HYDRANT

GENERAL NOTES

1 DEFINITIONS:
FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

2 EXCEPT AS OTHERWISE NOTED, ALL SCHEDULED PLUMBING FIXTURES SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL MAKE ALL ROUGH-IN AND FINAL CONNECTIONS TO ALL PLUMBING EQUIPMENT.

3 REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPING RUNOUT SIZES TO INDIVIDUAL PLUMBING FIXTURES.

4 DO NOT ROUTE ANY PIPING OVER ELECTRICAL ROOMS, COMPUTER ROOMS, OR ELECTRICAL PANELS.

5 WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED ON CONDITIONED SIDE OF INSULATION.

6 UNDERSLAB WATER PIPING SHALL BE TYPE 'K' SOFT DRAWN WITH NO JOINTS.

7 ALL DOMESTIC WATER PIPING IN CEILING SPACE SHALL BE ROUTED BELOW CEILING INSULATION. DO NOT INSTALL WATER PIPING ABOVE TOP FLOOR CEILING DRYWALL.

8 PROVIDE PRESSURE REDUCERS AS REQUIRED IN WATER SUPPLY LINES TO KEEP PRESSURE BELOW 70 PSI AT ALL OUTLETS.

9 PROVIDE PROPERLY SIZED WATER HAMMER ARRESTORS ON QUICK CLOSING VALVES.

10 PROVIDE APPROVED BACKFLOW PREVENTION OR ANTI-SIPHON DEVICES AT ALL FIXTURES THAT COULD CONTAMINATE THE POTABLE WATER SYSTEM.

11 PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS. LOCATE TRAP PRIMER VALVES IN ACCESSIBLE LOCATION. DO NOT LOCATE TRAP PRIMER VALVES OR PIPING IN AREAS ACCESSIBLE TO THE PUBLIC.

12 ALL WORK SHALL COMPLY WITH CURRENT FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES AS WELL AS THE CONSTRUCTION DOCUMENTS. REPORT ANY CONFLICTS TO THE ENGINEER AS SOON AS THEY ARE DISCOVERED.

13 REVIEW THE DRAWINGS AND SPECIFICATIONS PRIOR TO BIDDING JOB AND DURING CONSTRUCTION. EXCEPT AS OTHERWISE NOTED, PROVIDE ALL EQUIPMENT, MATERIALS, & LABOR FOR A COMPLETE PROJECT AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS. DRAWINGS AND SPECIFICATIONS CARRY EQUAL IMPORTANCE AND ITEMS LISTED IN EITHER SHALL BE PROVIDED AS IF LISTED IN BOTH. ALSO REVIEW DETAILS AND RISER DIAGRAMS FOR ADDITIONAL ITEMS/INSTRUCTIONS WHETHER SPECIFICALLY REFERRED TO ON PLANS OR NOT.

14 DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHOW THE GENERAL INSTALLATION OF EQUIPMENT & MATERIALS IN RELATIONSHIP TO STRUCTURE & OTHER TRADES. THEY MAY NOT SHOW EVERY REQUIRED OFFSET, FITTING, ETC. FIELD VERIFY ACTUAL JOB CONDITIONS AND COORDINATE WORK WITH OTHER TRADES PRIOR TO BIDDING JOB AND PRIOR TO ORDERING EQUIPMENT, FABRICATION OF MATERIALS, OR STARTING WORK. DO NOT SCALE THE DRAWINGS.

15 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL ITEMS THAT AFFECT OTHER DISCIPLINES WITH THE CORRESPONDING CONTRACTOR AND THE GENERAL CONTRACTOR IF EQUIPMENT, MATERIALS, ETC. OTHER THAN THOSE SCHEDULED & SPECIFIED (PENDING PRE-APPROVAL) ARE FURNISHED.

16 CHANGE ORDERS WILL NOT BE GRANTED DUE TO LACK OF COORDINATION WITH JOB CONDITIONS AND/OR OTHER CONTRACTORS.

17 MAINTAIN ALL REQUIRED SERVICE, FRESH AIR, & ROOF EDGE CLEARANCES FOR ALL NEW AND EXISTING EQUIPMENT, AND PLUMBING VENTS.

18 UPON COMPLETION OF THE PROJECT PROVIDE AS-BUILT DRAWINGS TO THE OWNER, ARCHITECT, AND ENGINEER SHOWING EQUIPMENT, PIPING, ETC. THAT DIFFERS FROM CONSTRUCTION DOCUMENTS AS THEY ARE ACTUALLY INSTALLED.

19 THE RESPONSIBILITY OF EACH CONTRACTOR IS NOT LIMITED TO THEIR SPECIFIC DISCIPLINE'S DRAWING SHEETS. REFER TO OTHER DISCIPLINES' DRAWING SHEETS AS REQUIRED FOR ADDITIONAL INFORMATION/INSTRUCTIONS.

20 FIRE SEAL ALL PENETRATIONS THROUGH RATED WALLS. SLEEVE IN ENTIRETY WITH APPROPRIATE SLEEVE MATERIAL.

NOTE:

NO SUBSTITUTIONS OF VENDORS OR PRODUCT ON EQUIPMENT UNLESS APPROVED BY WOODSPRING SUITES, THE ARCHITECT AND THE OWNER.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	MANFUACTURER	MODEL	CONSTRUCTION MATERIAL	SIZE (IN)	MOUNTING	TRIM		REMARKS
							FAUCET/VALVE MFG. & MODEL	STRAINER/ GRATE TYPE	
BP-1	BOOSTER PUMP	TOWLE WHITNEY	TW2000U-150G-40	DUPLEX SYSTEM					
ET-1	EXPANSION TANK	AMTROL	ST-42V						
FCO	CLEANOUT	ZURN	ZN1400-TX	CI W/NICKEL BRONZE COVER	SEE PLANS	FLOOR	--	--	--
GCO	CLEANOUT	ZURN	Z1400-BZ1	CAST IRON	SEE PLANS	FLOOR	--	--	--
FD	FLOOR DRAIN	ZURN	ZN415-5B	CI W/NICKEL BRONZE STRAINER	SEE PLANS	FLOOR	--	YES	16
LI	LINT INTERCEPTOR	STRIEM PRODUCTS	AA-4	POLYETHYLENE					19
P-1	WATER CLOSET	AMERICAN STANDARD	3517C101020, 4188A004020 ALT: GERBER GVP21562, GVP 28590WH	VITREOUS CHINA	N/A	FLOOR	--	--	1
P-1H	WATER CLOSET	AMERICAN STANDARD	3517A101020, 4188A004020 ALT: GERBER GVP21528, GVP 28590WH	VITREOUS CHINA	N/A	FLOOR	--	--	1
P-2	LAVATORY	PROFLO	PF1812UWH	--	--	COUNTER	DELTA 559LF-HGM-MPU	POP-UP	3
P-2H	LAVATORY	PROFLO	PF1812UWH	--	--	COUNTER	DELTA 559LF-HGM-MPU	POP-UP	3, 4
P-3	TUB/SHOWER	AQUATIC	2603SGM	GELCOAT	60X33	--	DELTA T17459 DELTA 52637	PROFLO PFW0352	5, 6, 8, 11, 12
P-3H	TUB/SHOWER	AQUATIC	2603SMTE	GELCOAT	60X33	--	DELTA T17459, T11861, RPW324HDF	PROFLO PFW0352	5, 7, 8, 11, 12, 22
P-4H	ROLL IN SHOWER	AQUATIC	16030BFSC	GELCOAT	62X33	--	DELTA T17259, T11861, RPW324HDF	PROFLO PF140NC	5, 9, 10, 11, 12, 22
P-5	SINK	PROFLO	PFU301A	STAINLESS STEEL	25X22	COUNTER	DELTA D1953LF	PROFLO F1435SS	13
P-5H	SINK	PROFLO	PFUC301A6	STAINLESS STEEL	25X22	COUNTER	PEERLESS P188200LF	PROFLO F1435SS	4, 13
P-6	LAVATORY	ZURN	Z5344	VITREOUS CHINA	20X18	WALL	DELTA 501LF-HDF	GRID	3, 4, 11, 14
P-7	MOP BASIN/TRENCH	--	----	--	--	FLOOR	DELTA 28C2063	--	15
P-8	WASHING MACHINE BOX	IPS CORP	82359	--	--	WALL	--	--	--
P-9	LAUNDRY SINK	MUSTEE	26F	DURASTONE	40X24	FLOOR	DELTA 2133LF	--	13
P-10	HOSE BIBB	WOODFORD	26C						
P-11	HOSE BIBB	WOODFORD	17CP-12-MH						
P-12	TRENCH DRAIN	JAY R. SMITH	9667-SG	STAINLESS STEEL	2X60	FLOOR			2, 21
RD	ROOF DRAIN	ZURN	Z100	CI W/POLY DOME	SEE PLANS	ROOF	--	YES	--
RP	RECIRC PUMP	GRUNDFOS	UP26-96F		115V/1PH		HONEYWELL L6006A1145, 121371B		
SP	SUMP PUMP	ZOELLER	Z940-0013		115V/1PH				20
TMV	THERMOSTATIC MIXING VALVE	SYMMONS	7-1000-W			WALL			
TP-1	TRAP PRIMER	PPP INC.	PR-500	BRASS	--	--	DUU	--	--
WCO	CLEANOUT	ZURN	Z1446	STAINLESS	SEE PLANS	WALL			
WH-1, 2, 3	WATER HEATER	A. O. SMITH	BTH199A00N00000 ALT: STATE SUF100199NEE		100 GAL				18

GENERAL FIXTURE ACCESSORY NOTES:

1. PROVIDE CARRIERS FOR ALL WALL HUNG WATER CLOSETS, URINALS, LAVATORIES, & DRINKING FOUNTAINS.

2. PROVIDE ALL ADA SINKS WITH REAR CENTERED DRAIN OPENINGS.

3. PROVIDE ALL ADA LAVATORIES & SINKS NOT PROTECTED BY AN ARCHITECTURAL SKIRT PANEL WITH UNDERSINK PIPING COVERS EQUAL TO TRUEBRO LAVGARD 2.

4. PROVIDE ALL ADA WATER CLOSETS & URINALS WITH THE FLUSH LEVER ON THE WIDE SIDE OF THE FIXTURE. SEE PLANS.

5. PROVIDE ALL LAVATORY & SINK P-TRAPS WITH INTEGRAL CLEANOUT PLUGS.

6. UNLESS OTHERWISE NOTED IN REMARKS SECTION, PROVIDE ALL WATER CLOSETS FURNISHED WITH WHITE OPEN FRONT SEATS, INCLUDING COVERS.

7. UNLESS OTHERWISE NOTED, PIPING CONNECTION SIZES OF ALL FLOOR DRAINS, FLOOR SINKS, & CLEANOUTS SHALL MATCH PIPING RUNOUT SIZE SHOWN ON PLANS.

8. SEE PLANS FOR ROOF DRAIN PIPING CONNECTION SIZES.

FIXTURE REMARKS:

1. PROVIDE WITH PROFLO PFTSCOFC2000WH WHITE SEAT, PFX146472 12" SUPPLY, PFXQAC32C 1/4 TURN STOP, NO-SEEP BOWL WAX & CLOSET BOLT KIT.

2. COORDINATE INSTALLATION WITH RESPECTED TRADES AND INSTALL AS CLOSE AS POSSIBLE TO SHOWER.

3. 0.5GPM, PROVIDE PFPTB400 P-TRAP, PFX146322 SUPPLIES, PFXQAC32CLK 1/4 TURN STOPS.

4. PROVIDE & INSTALL LAV GUARD2 102E-Z & #402W INSULATION COVER WITH ONE P-TRAP AND TWO SUPPLY COVERS.

5. PROVIDE DELTA R10000-UNWS ROUGH IN VALVE.

6. 1.75GPM SHOWERHEAD & SLIP JOINT TUB DIVERTER SPOUT.

7. 2.5GPM HANDHELD, 24" SLIDE BAR, 60" FLEX HOSE & SLIP JOINT DIVERTER SPOUT, DN7025 SHOWER SEAT.

8. PROVIDE PFW0352 WASTE & OVERFLOW.

9. 1.6GPM HANDHELD, 24" SLIDE BAR, 60" FLEX HOSE.

10. PROVIDE SHOWER UNIT WITH GRAB BARS, FOLD UP SEAT, SHOWER CURTAIN AND ROD AND SHOWER DRAIN

11. VERIFY CORRECT DIMENSIONS WITH ARCHITECTURAL PLANS.

12. PROVIDE RIGHT OR LEFT HAND DRAIN AS REQUIRED. REFER TO PLANS.

13. PROVIDE WITH PROFLO PFTPB100 TAILPIECE, PFPTB403 P-TRAP, PFX146322 SUPPLIES, PFX1AC32CLK 1/4 TURN STOPS.

14. PROVIDE LEONARD 170 MIXING VALVE AS REQUIRED BY LOCAL CODE.

15. PROVIDE PROFLO PFSSHE HOSE & PF296 HOSE HANGER.

16. PROVIDE WITH TRAP PRIMER CONNECTION.

17. CLEANOUT FITTING & PLUG TO BE PROVIDED IN ROUGH-IN MATERIAL.

18. 199MBTU 96% EFF, INCL STATE S9006328005 CONCENTRIC VENT KIT.

19. PROVIDE EXTENSION IF REQUIRED.

20. PROVIDE WITH ZOELLER 2" Z30-0101 BALL VALVE/CHECK VALVE, JACKEL FWB24X36FAGF, JC24B, SIH4, E200H. PROVIDE ALARM PANEL, OIL SWITCH, AND PUMP.

21. 60" LENGTH FOR ROLL-IN SHOWER WITH NO FLASHING FLANGE.

22. PROVIDE DELTA R11000 ROUGH IN VALVE.

ROUGH-IN & INSTALLATION NOTES:

1. UNLESS OTHERWISE NOTED, PC SHALL FURNISH, INSTALL, & CONNECT ALL SCHEDULED PLUMBING FIXTURES.

2. INSTALLATION OF ADA FIXTURES SHALL MEET FEDERAL ADA STANDARDS.

3. SEE ARCHITECTURAL PLANS & ELEVATIONS FOR INSTALLATION HEIGHTS OF ALL PLUMBING FIXTURES.

4. PROVIDE TRAP PRIMERS TO SERVE ALL FLOOR DRAINS.

5. PLUMBING CONTRACTOR SHALL SUPPLY & INSTALL ALL ACCESSORIES, VALVES, WATER HAMMER ARRESTORS, ETC. NOT SCHEDULED OR CALLED OUT ON PLANS BUT REQUIRED TO MAKE THE PLUMBING SYSTEM COMPLETE.

6. UNLESS OTHERWISE NOTED IN REMARKS SECTION, FIXTURE ROUGH-IN & CONNECTION PIPING SIZES SHALL BE AS INDICATED IN ADJACENT TABLE.

PLUMBING FIXTURE	TRAP	WASTE		VENT	COLD WATER	HOT WATER
		ABOVE GRADE	BELOW GRADE			
WATER CLOSET-FLUSH TANK	--	3"	3"	2"	1/2"	--
LAVATORY	1-1/2"	1-1/2"	2"	1-1/2"	1/2"	1/2"
BATHTUB/SHOWER	2"	2"	2"	1-1/2"	1/2"	1/2"
SINK-HAND, BAR, RESIDENTIAL KITCHEN	1-1/2"	1-1/2"	2"	1-1/2"	1/2"	1/2"
SINK-COMMERCIAL KITCHEN	1-1/2"	1-1/2"	2"	1-1/2"	3/4"	3/4"
RESIDENTIAL CLOTHES WASHER/WASHER BOX	2"	2"	2"	1-1/2"	3/4"	3/4"
MOP BASIN/SERVICE SINK	3"	3"	3"	2"	3/4"	3/4"
WALL HYDRANT/HOSE BIBB	--	--	--	--	3/4"	--

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WOODSPRING SUITES

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Sheet Title

PLUMBING NOTES AND LEGENDS

Sheet No.

P-1

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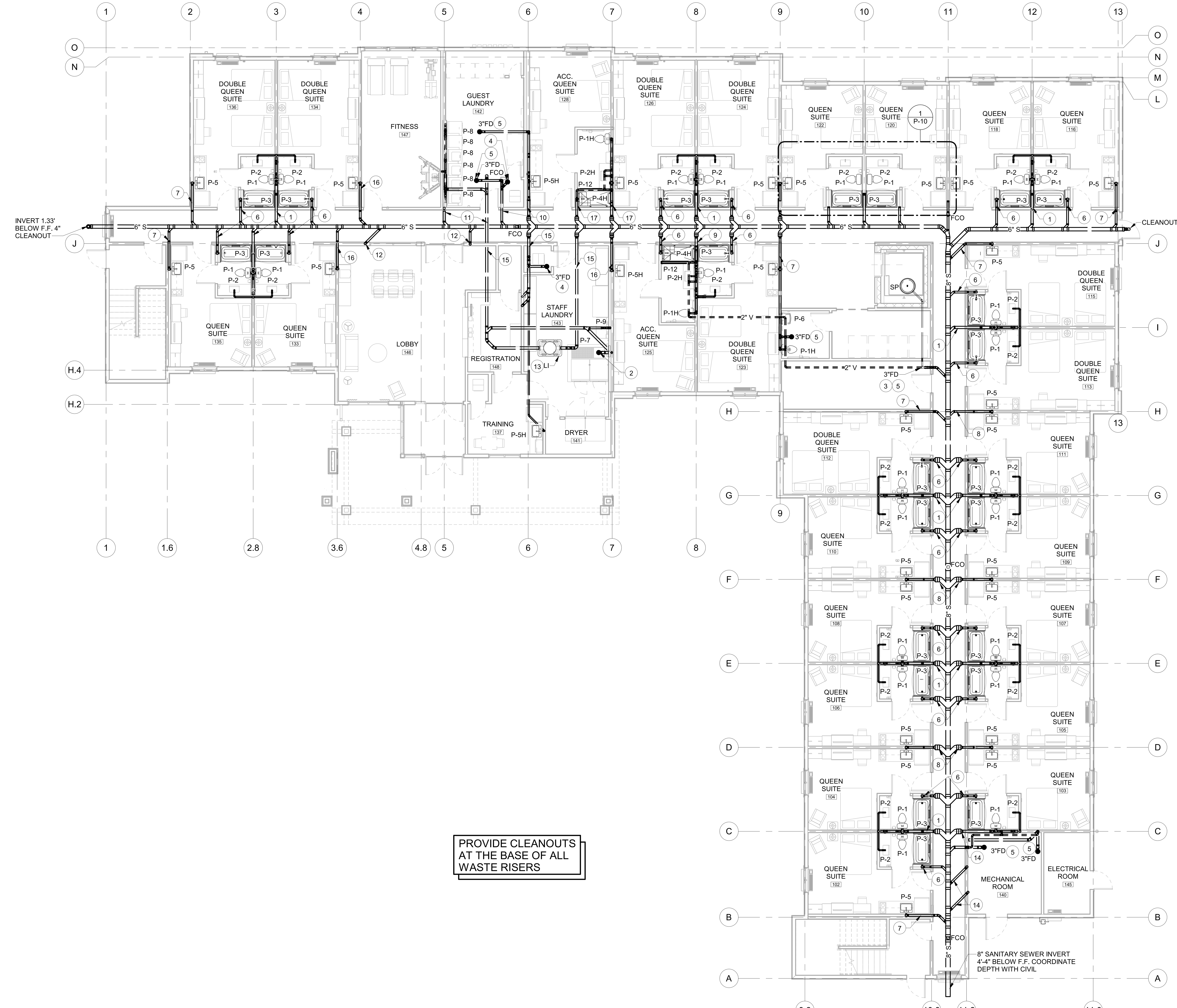

1 FIRST FLOOR WASTE & VENT
SCALE: 1/8" = 1'-0"

PLUMBING KEYNOTES (1, 2, X)

1. SEE RISER DETAIL 1 ON SHEET P8.
2. PROVIDE JR SMITH MODEL 2420 4" FLOOR DRAIN WITH SEDIMENT BUCKET. SEE ARCHITECTURAL DETAIL 5/A3.3 PLANS FOR TRENCH DETAIL.
3. ROUTE SUMP PUMP PIPING UNDERSLAB TO FLOOR DRAIN. INDIRECT OVER DRAIN WITH HALF GRATE. PROVIDE AIR GAP.
4. PROVIDE INDIRECT DRAIN CONDENSATE FROM FCU TO FLOOR DRAIN WITH 2" AIR GAP. PROVIDE FLOOR DRAIN WITH HALF GRATE.
5. EXTEND 1/2" CW FROM TRAP PRIMER. CONNECT CW FOR PRIMER SYSTEM TO NEAREST 1" CW PIPE OR LARGER.
6. SEE RISER DETAIL 2 ON SHEET P8.
7. SEE RISER DETAIL 3 ON SHEET P8.
8. SEE RISER DETAIL 4 ON SHEET P8.
9. SEE RISER DETAIL 5 ON SHEET P8.
10. SEE RISER DETAIL 6 ON SHEET P8.
11. SEE RISER DETAIL 7 ON SHEET P8.
12. SEE RISER DETAIL 8 ON SHEET P8.
13. PROVIDE 4"W TO LINT TRAP AND CONNECT TO BUILDING SEWER. 4" INLET/OUTLETS PROVIDE RISERS AS REQUIRED.
14. SEE RISER DETAIL 9 ON SHEET P8.
15. SEE RISER DETAIL 10 ON SHEET P8.
16. SEE RISER DETAIL 11 ON SHEET P8.
17. SEE RISER DETAIL 12 ON SHEET P8.

DRAINAGE FIXTURE UNIT

FIXTURE	QUANTITY	WASTE	TOTAL
WATER CLOSET	1	4	4
LAVATORY	1	1	1
BATHROOM GROUP	122	5	610
SINK	122	2	244
LAUNDRY SINK	1	2	2
3" FLOOR DRAIN	4	5	20
EMERGENCY FLOOR DRAIN	5	0	0
BREAK ROOM SINK	1	2	2
PUBLIC WASHING MACHINE	6	3	18
EXTRACTORS	2	6	12
MOP SINK	1	3	3
TOTAL			916

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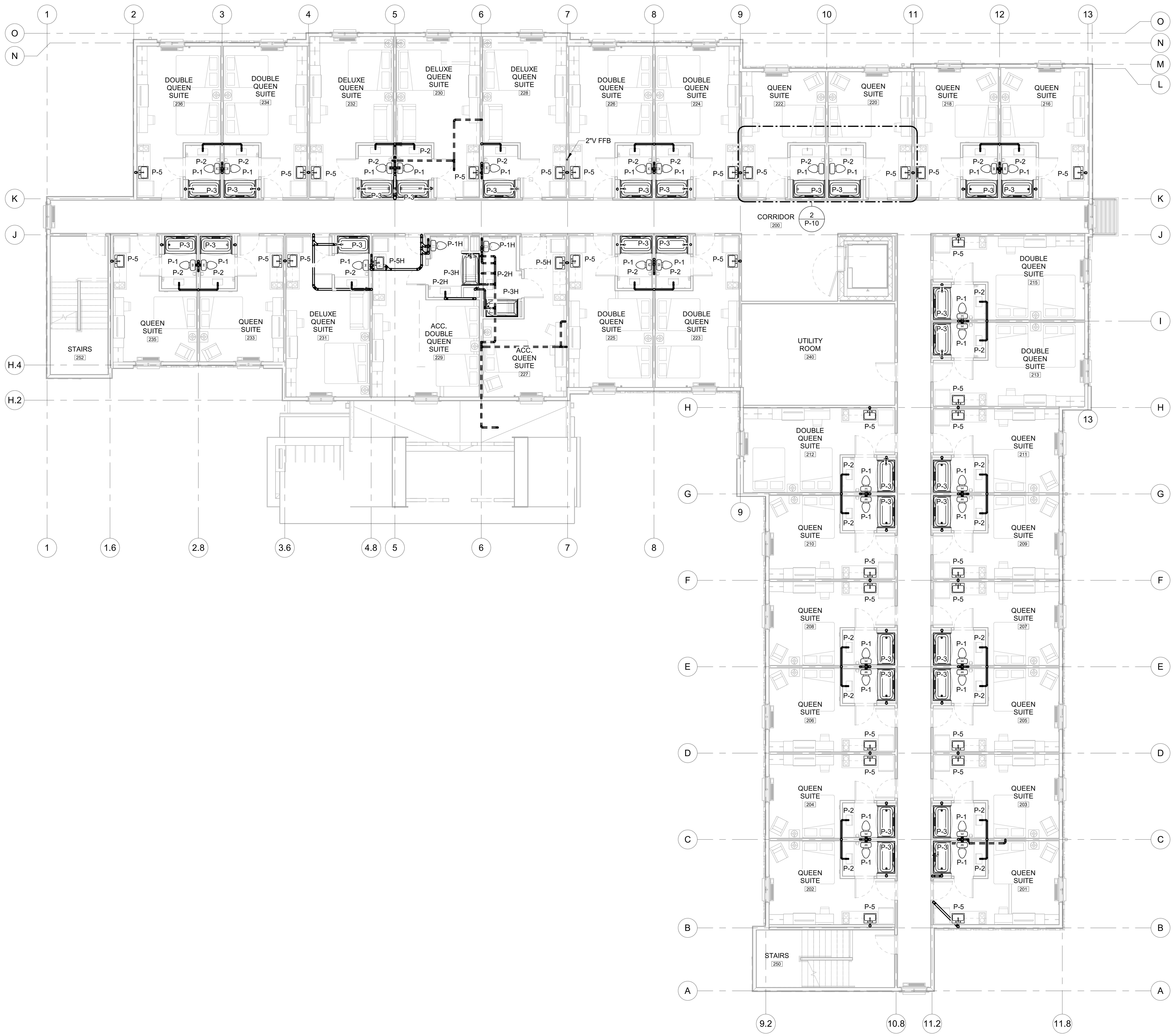
Sheet Title
PLUMBING WASTE AND VENT PLANS - 1ST FLOOR

Sheet No.
P-2



1 SECOND FLOOR WASTE & VENT
SCALE: 1/8" = 1'-0"

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Sheet Title

PLUMBING WASTE AND VENT PLANS - 2ND FLOOR

Sheet No.

P-3

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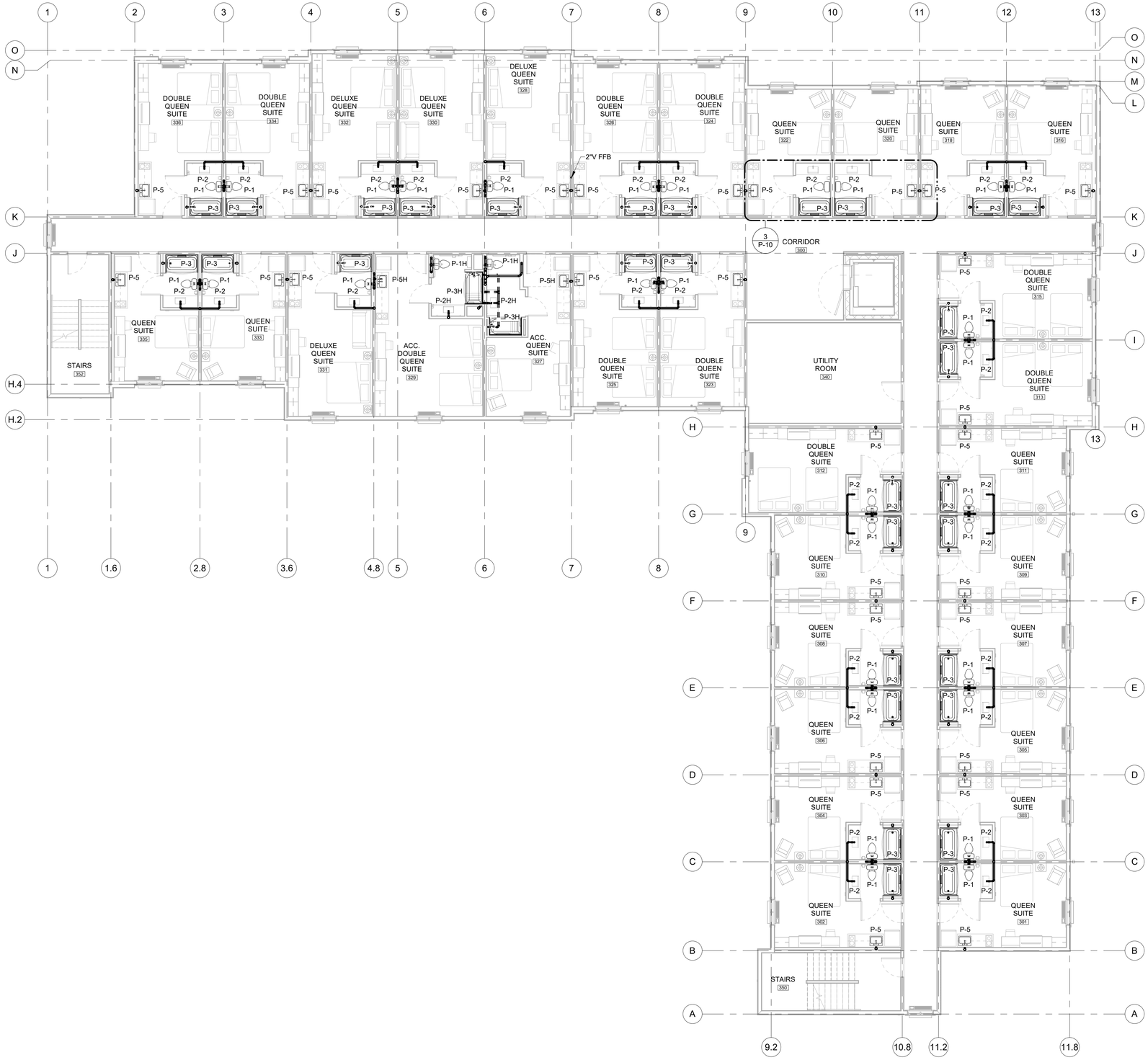

1 THIRD FLOOR WASTE & VENT
SCALE: 1/8" = 1'-0"

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Sheet Title

PLUMBING WASTE AND VENT PLANS - 3RD FLOOR

Sheet No.

P-4

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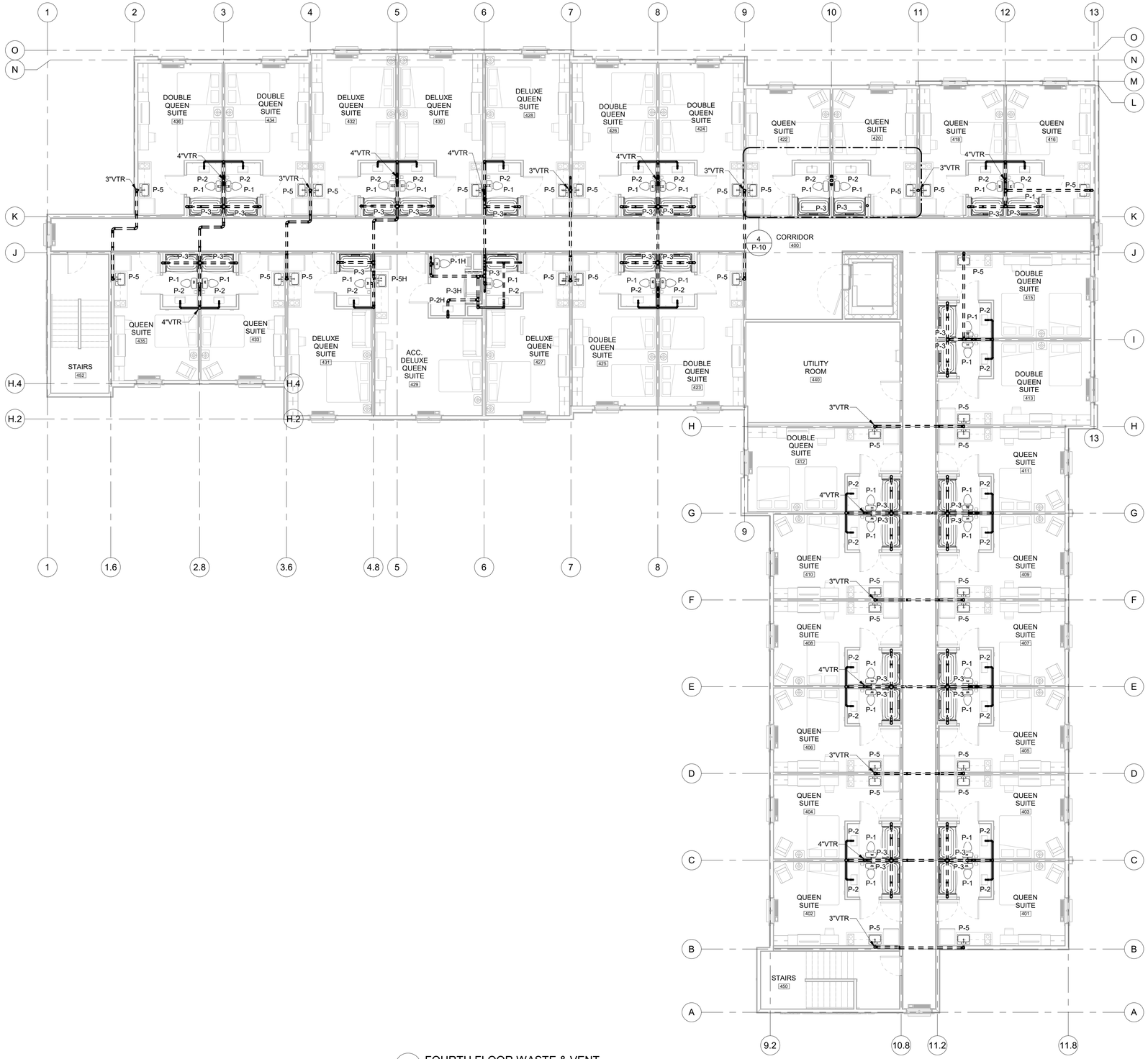

1 FOURTH FLOOR WASTE & VENT
SCALE: 1/8" = 1'-0"

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Sheet Title

PLUMBING WASTE AND VENT PLANS - 4TH FLOOR

Sheet No.

P-5

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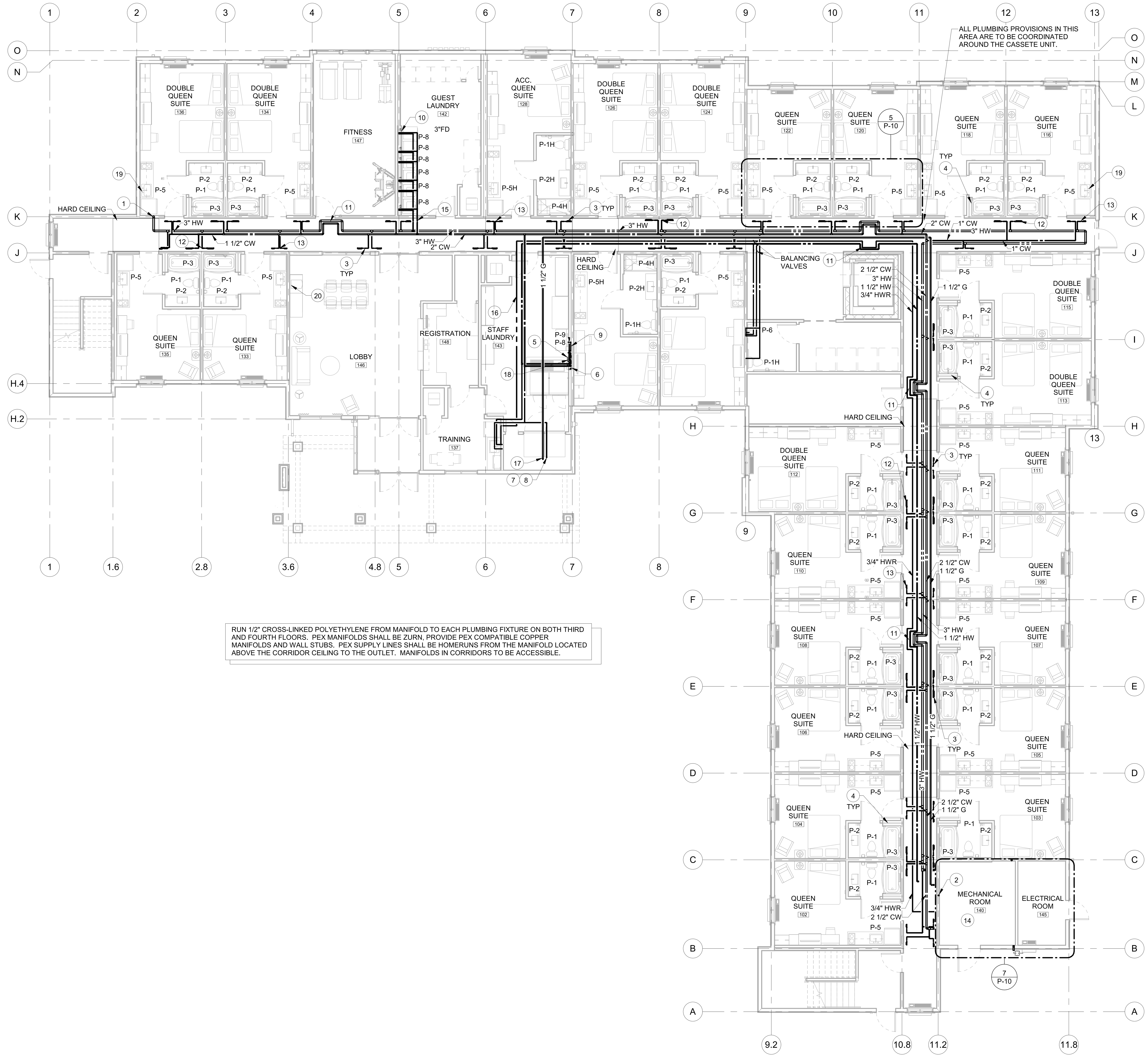

RUN 1/2" CROSS-LINKED POLYETHYLENE FROM MANIFOLD TO EACH PLUMBING FIXTURE ON BOTH THIRD AND FOURTH FLOORS. PEX MANIFOLDS SHALL BE ZURN, PROVIDE PEX COMPATIBLE COPPER MANIFOLDS AND WALL STUBS. PEX SUPPLY LINES SHALL BE HOMERUNS FROM THE MANIFOLD LOCATED ABOVE THE CORRIDOR CEILING TO THE OUTLET. MANIFOLDS IN CORRIDORS TO BE ACCESSIBLE.

1 FIRST FLOOR DOMESTIC WATER PLAN
SCALE: 1/8" = 1'-0"

NORTH

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PLUMBING KEY NOTES (1, 2, X)

1. 2 1/2" WATER UP TO 3RD FLOOR CEILING.
2. 1 1/2" HOT WATER RETURN DOWN FROM 3RD FLOOR CEILING.
3. PROVIDE COPPER MANIFOLD FOR WATER DISTRIBUTION. PROVIDE ISOLATION VALVES UP STREAM OF MANIFOLD FOR COMPLETE SYSTEM ISOLATION. (TYPICAL) MANIFOLDS TO BE INSTALLED IN CORRIDOR. COORDINATE MANIFOLDS OUTSIDE OF CORRIDOR HARD LID CEILINGS, REF. ARCHITECTURAL PLANS FOR HARD LID CEILING LOCATIONS. REFER TO DETAIL 6/P6.
4. REFER TO ARCHITECTS DETAIL FOR MOUNTING HEIGHTS OF TUB/SHOWER FAUCET AND CONTROLS. (TYPICAL)
5. ROUTE 1/2" TO UNIVERSAL FLUSH MANIFOLD (BY OWNER). COORDINATE WITH OWNER FOR EXACT MOUNTING HEIGHTS AND INSTALLATION DETAILS.
6. DROP 1-1/2" COLD AND HOT WATER DOWN IN WALL TO WASHERS. HOLD TIGHT TO CORNER @ STAFF LAUNDRY. EXTEND 3/4" SUPPLY LINES TO MOP FAUCET.
7. EXTEND 3/4" CW TO DRYER FOR FIRE SUPPRESSION SYSTEM INSIDE DRYER. PROVIDE VALVE AND SPIGOT. SPIGOT TO BE INSTALLED ON CEILING. INSTALL LINE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
8. PROVIDE RAYCHEM SELF REGULATING PROTECTION SYSTEM ON HOSE AT CONNECTION FROM HOSE BIBB TO COMMERCIAL DRYER. SIZE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS WITH 3/4" INSULATION SURROUNDING PIPE AND HEAT TRACE. CONNECT TO ADJACENT ELECTRICAL OUTLET BY E.C.
9. MOUNT HOSE BIBB AT 40" A.F.F. SEE ARCHITECTURAL PLANS.
10. DROP 3/4" HW/CW DOWN IN WALL TO WASHER BOX.
11. PROVIDE CPVC EXPANSION JOINT PER MANUFACTURER'S INSTRUCTIONS. SIMILAR TO FLEXICRAFT MODEL CP. INSTALL AS REQUIRED THROUGHOUT WATER SYSTEM.
12. SEE RISER DETAIL 1 ON SHEET P9.
13. SEE RISER DETAIL 2 ON SHEET P9.
14. SEE RISER DETAIL 3 ON SHEET P9.
15. SEE RISER DETAIL 4 ON SHEET P9.
16. SEE RISER DETAIL 5 ON SHEET P9.
17. ROUTE GAS TO DRYERS PER MANUFACTURERS INSTRUCTIONS.
18. COORDINATE INSTALLATION OF ALL VALVES AND MIXING VALVE WITH ACCESS PANEL. COORDINATE WITH ARCHITECTURAL PLANS FOR SPECIFICATIONS OF WALL MOUNTED ACCESS PANEL.
19. DO NOT ROUTE WATER IN EXTERIOR WALLS. SINK SUPPLY TO BE THROUGH FLOOR.
20. TAP 1/2" COLD WATER OFF P-5H WATER SUPPLY FOR COFFEE BREWER.

WATER FIXTURE UNIT

FIXTURE	QUANTITY	WATER	TOTAL
WATER CLOSET	1	2.2	2.2
LAVATORY	1	0.7	0.7
BATHROOM GROUP	122	3.6	439.2
SINK	122	1.4	170.8
LAUNDRY SINK	1	1.4	1.4
WASHERS	6	3	18
COMMERCIAL WASHER	2	4	8
HOSE BIBB	2	2.5/1	3.5
MOP SINK FAUCET	1	3	3
BREAK ROOM SINK	1	1.4	1.4
		TOTAL	648.4

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Sheet Title
PLUMBING WATER PLANS - 1ST FLOOR

Sheet No.
P-6

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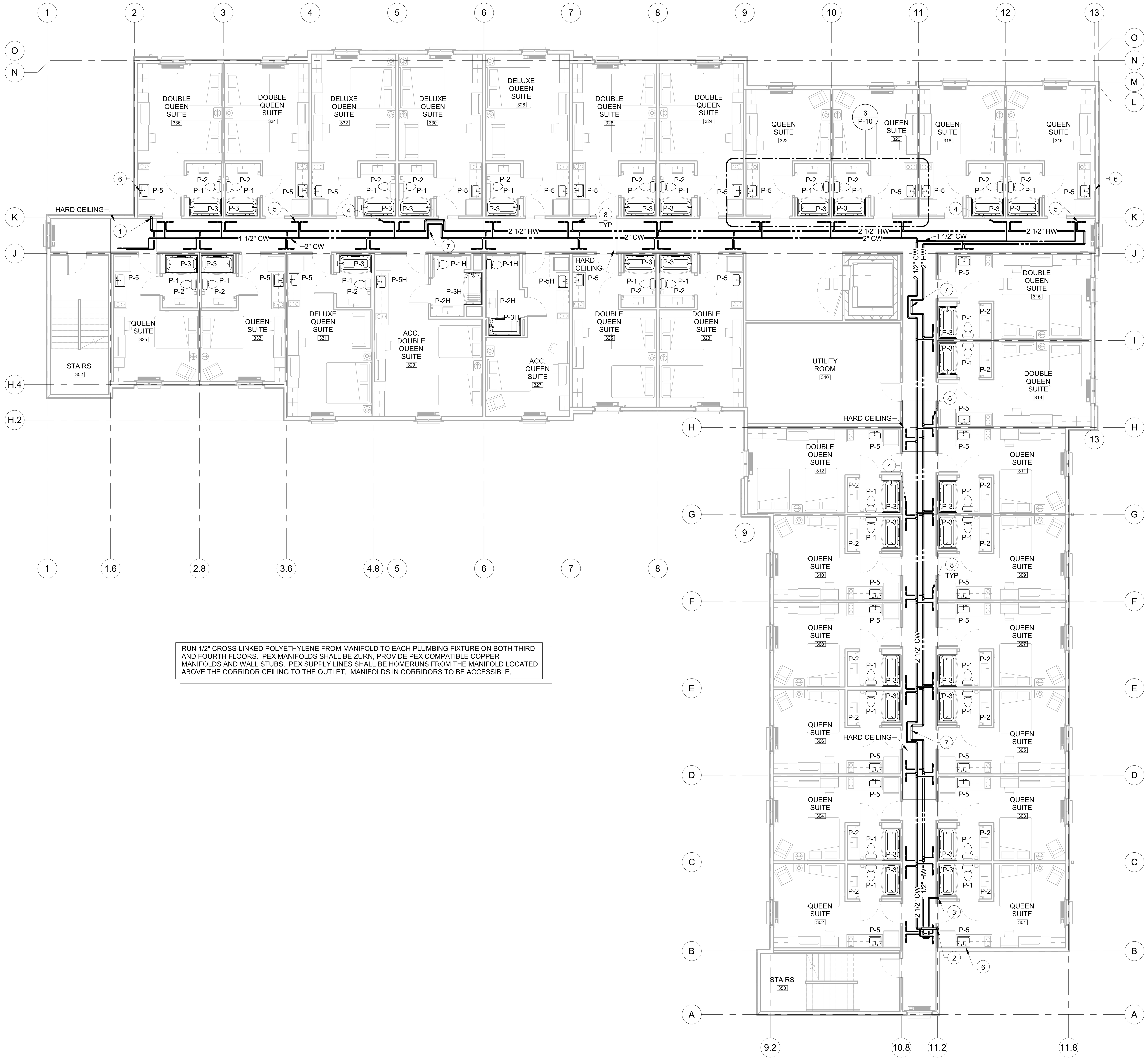

RUN 1/2" CROSS-LINKED POLYETHYLENE FROM MANIFOLD TO EACH PLUMBING FIXTURE ON BOTH THIRD AND FOURTH FLOORS. PEX MANIFOLDS SHALL BE ZURN, PROVIDE PEX COMPATIBLE COPPER MANIFOLDS AND WALL STUBS. PEX SUPPLY LINES SHALL BE HOMERUNS FROM THE MANIFOLD LOCATED ABOVE THE CORRIDOR CEILING TO THE OUTLET. MANIFOLDS IN CORRIDORS TO BE ACCESSIBLE.

1 THIRD FLOOR DOMESTIC WATER PLAN

SCALE: 1/8" = 1'-0"

PLUMBING KEY NOTES (1, 2, X)

1. 2 1/2" HOT WATER UP FROM 1ST FLOOR CEILING.
2. 2 1/2" COLD WATER UP FROM 1ST FLOOR CEILING.
3. 1 1/2" HOT WATER RETURN DOWN TO 1ST FLOOR MECHANICAL ROOM.
4. SEE RISER DETAIL 1 ON SHEET P9.
5. SEE RISER DETAIL 2 ON SHEET P9.
6. DO NOT ROUTE WATER IN EXTERIOR WALLS. SINK SUPPLY TO BE THROUGH FLOOR.
7. PROVIDE CPVC EXPANSION JOINT PER MANUFACTURER'S INSTRUCTIONS. SIMILAR TO FLEXICRAFT MODEL CP. INSTALL AS REQUIRED THROUGHOUT WATER SYSTEM.
8. PROVIDE COPPER MANIFOLD FOR WATER DISTRIBUTION. PROVIDE ISOLATION VALVES UP STREAM OF MANIFOLD FOR COMPLETE SYSTEM ISOLATION. (TYPICAL) MANIFOLDS TO BE INSTALLED IN CORRIDOR. COORDINATE MANIFOLDS OUTSIDE OF CORRIDOR HARD LID CEILINGS, REF. ARCHITECTURAL PLANS FOR HARD LID CEILING LOCATIONS. REFER TO DETAIL 6/P6.

NORTH

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Sheet Title

PLUMBING WATER PLANS - 3RD FLOOR

Sheet No.

P-7

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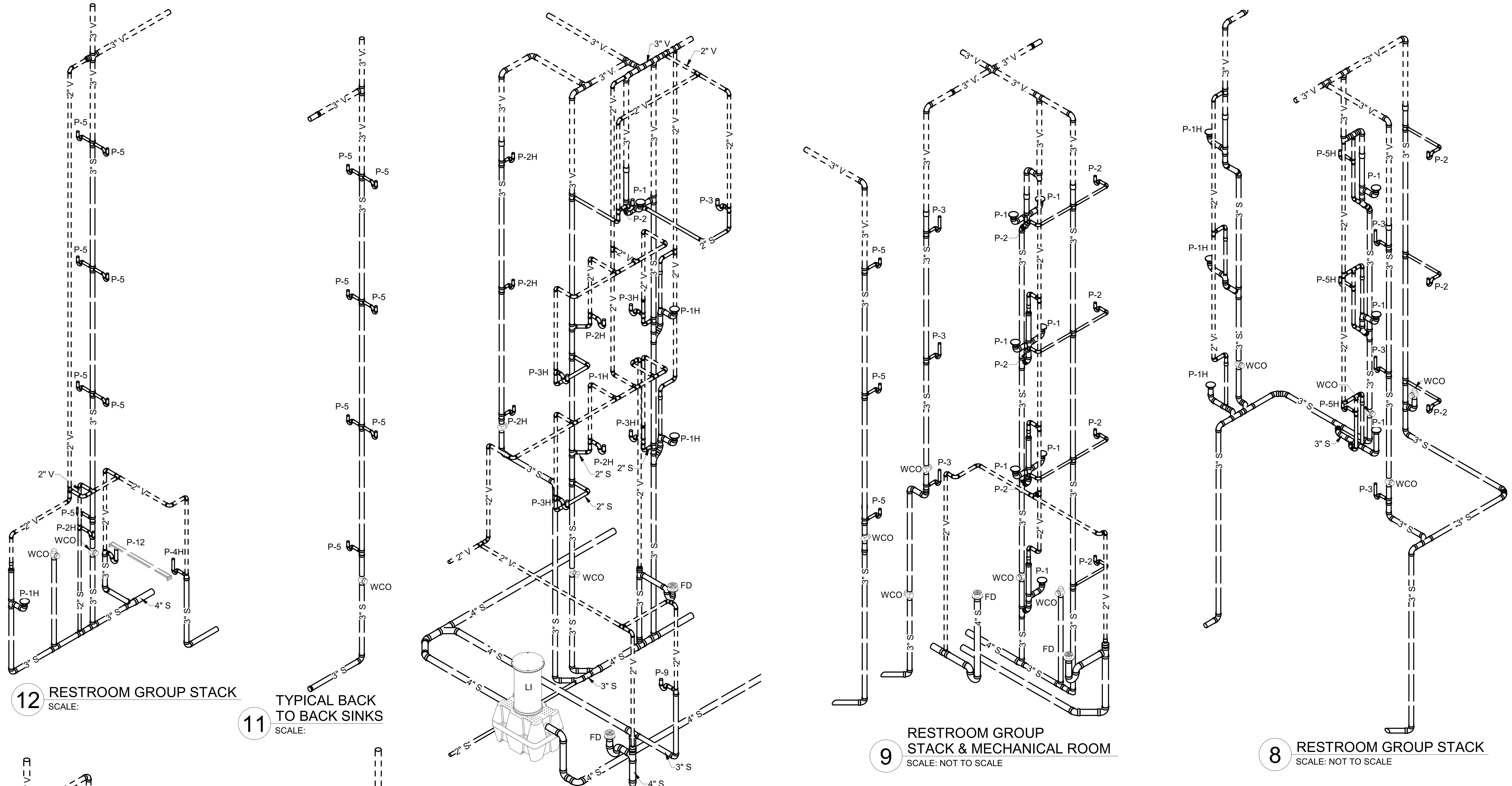
NOTES

1 DOUBLE SANITARY TEE FITTING IS NOT TO BE USED AT BACK-TO-BACK WC. USE DOUBLE SANITARY WYE OR SINGLE FITTINGS.
2 PROVIDE CLEANOUTS AT THE BASE OF ALL WASTE RISERS.
3 AT KITCHEN SINKS IN GUESTROOM AREAS (P-5 AND P-5H), COORDINATE AND INSTALL THE HUB OF THE 3" WASTE STACKS ABOVE CEILINGS OR BELOW FLOORS.
4 GENERAL CONTRACTOR AND PLUMBING CONTRACTOR TO COORDINATE WITH OTHER TRADES TO ENSURE ADEQUATE SPACE FOR PIPING SYSTEMS.
5 PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS.



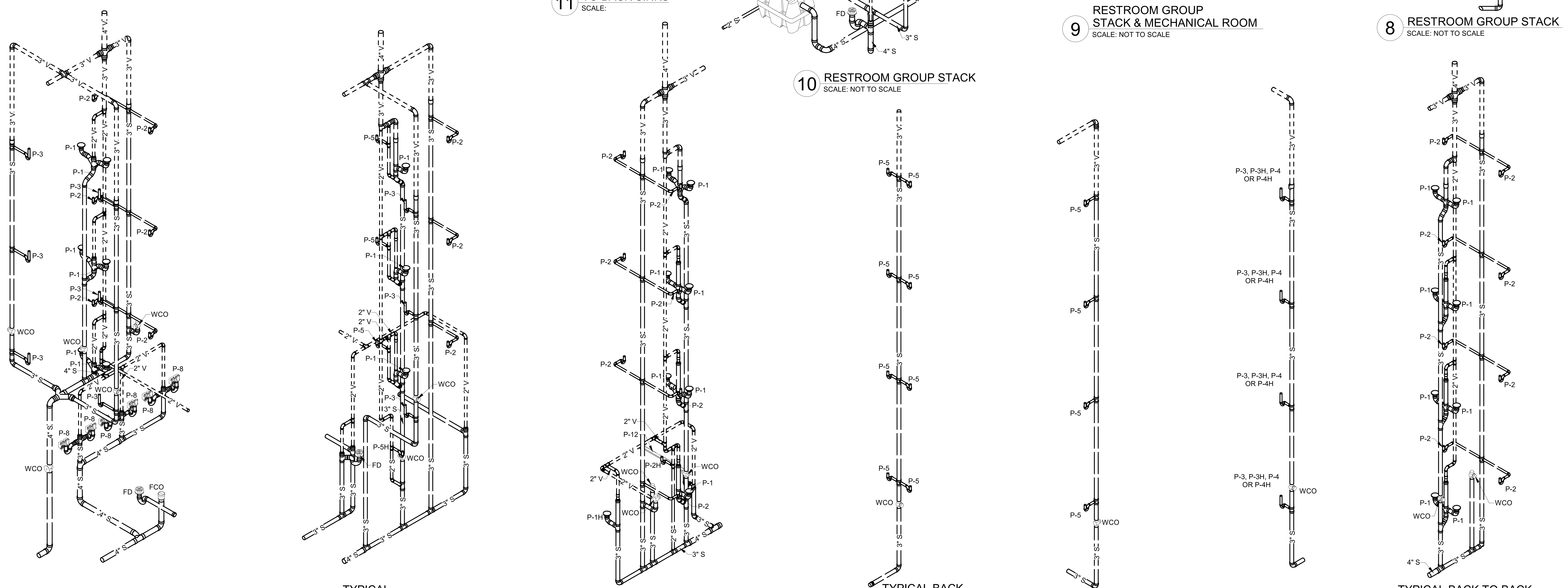
12 RESTROOM GROUP STACK
SCALE:

11 TYPICAL BACK TO BACK SINKS
SCALE:

10 RESTROOM GROUP STACK
SCALE: NOT TO SCALE

9 RESTROOM GROUP STACK & MECHANICAL ROOM
SCALE: NOT TO SCALE

8 RESTROOM GROUP STACK
SCALE: NOT TO SCALE



7 RESTROOM GROUP STACK
SCALE:

6 TYPICAL RESTROOM GROUP STACK
SCALE: NOT TO SCALE

5 WATER CLOSET & LAVATORY STACK
SCALE: NOT TO SCALE

4 TYPICAL BACK TO BACK SINKS
SCALE: NOT TO SCALE

3 TYPICAL SINKS
SCALE: NOT TO SCALE

2 TYPICAL TUB/SHOWERS
SCALE: NOT TO SCALE

1 TYPICAL BACK TO BACK WATER CLOSETS & LAVATORIES
SCALE: NOT TO SCALE

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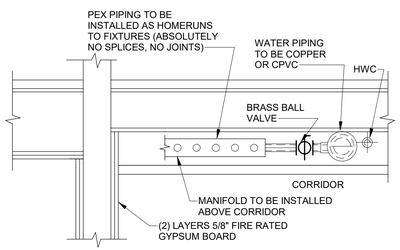
PLUMBING WASTE & VENT RISERS

Sheet No.

P-8

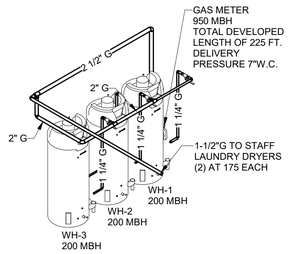
PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS. WATER MANIFOLD FOR TRAP PRIMERS SHOULD BE LOCATED IN THE AHU ROOMS IN STAFF LAUNDRY AND GUEST LAUNDRY.



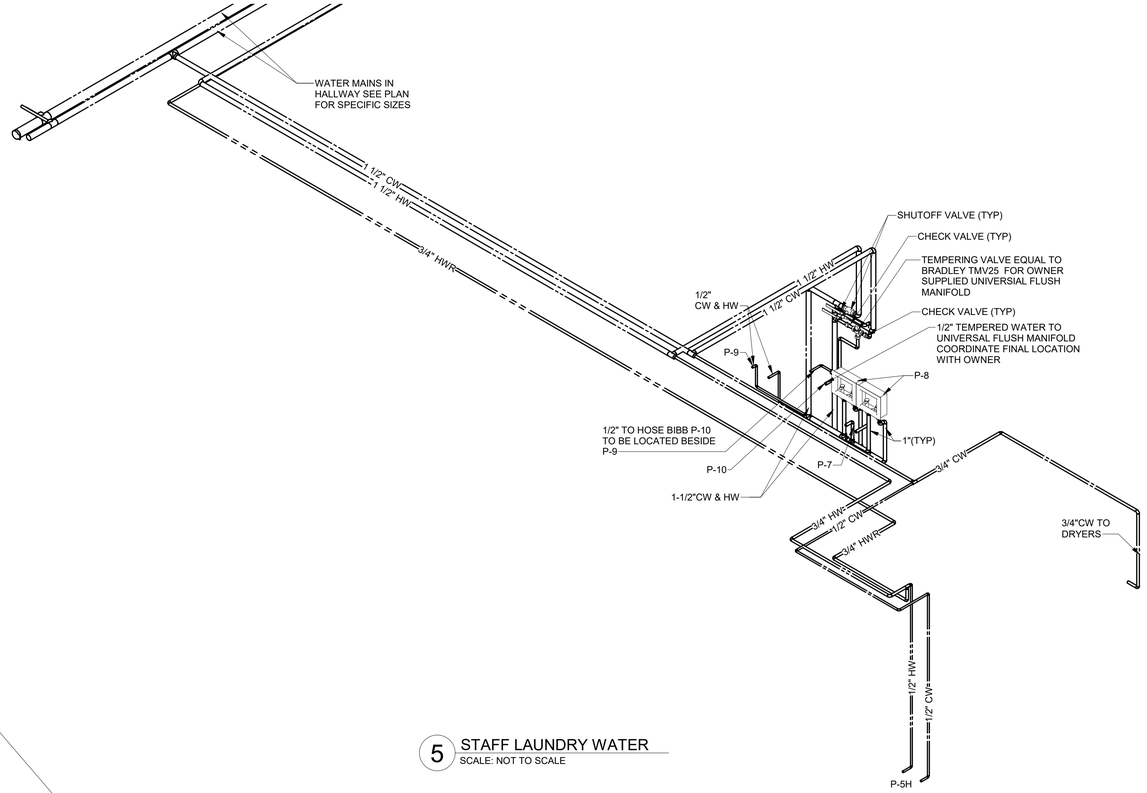
NOTES:

1. GENERAL CONCTRACTOR AND PLUMBING CONTRACTOR TO COORDINATE WITH OTHER TRADES TO ENSURE ADEQUATE SPACE FOR PIPING SYSTEMS.
2. MANIFOLDS TO BE INSTALLED IN CORRIDOR.
3. WATER SHUT-OFF REQUIRED FOR EACH FIXTURE OR A UNIT SHUT-OFF MAY BE PROVIDED AND SHUT-OFF VALVES ARE REQUIRED TO EACH APPLIANCE OR MECHANICAL DEVICE PER 606.2 OF THE IPC
4. COORDINATE LOCATIONS WITH ARCHITECTURAL PLANS TO AVOID PLACING MANIFOLDS OVER HARD CEILINGS WHEN POSSIBLE.

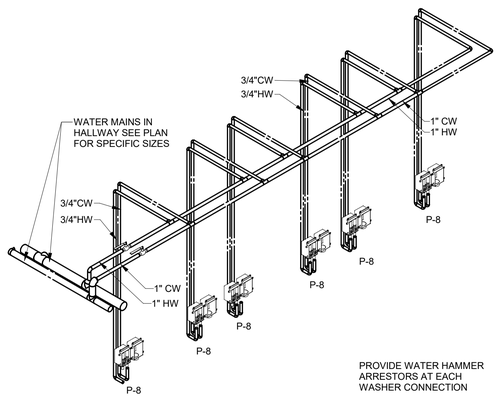
6 MANIFOLD DETAIL
SCALE: NOT TO SCALE



7 GAS RISER
SCALE: NOT TO SCALE

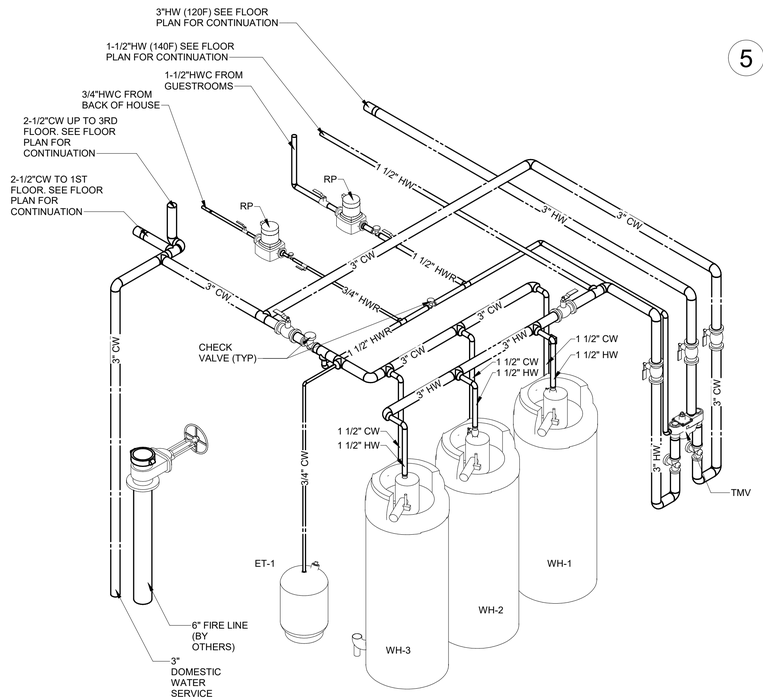


5 STAFF LAUNDRY WATER
SCALE: NOT TO SCALE

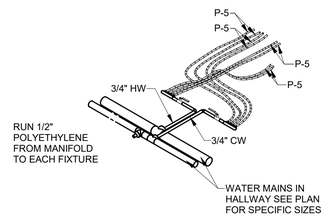


PROVIDE WATER HAMMER ARRESTORS AT EACH WASHER CONNECTION

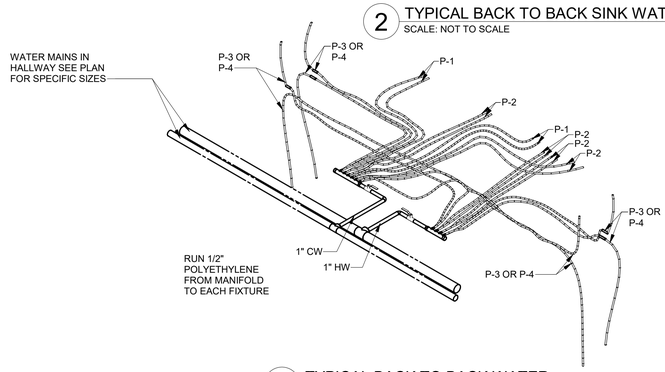
4 PUBLIC LAUNDRY WATER
SCALE: NOT TO SCALE



3 MECHANICAL ROOM WATER
SCALE: NOT TO SCALE



2 TYPICAL BACK TO BACK SINK WATER
SCALE: NOT TO SCALE



1 TYPICAL BACK TO BACK WATER
SCALE: NOT TO SCALE

8/15/2023 4:45:17 PM

Architect of Record:
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8131 METCALF AVE,
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www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

ACERTUS CONSULTING GROUP

ACERTUS CONSULTING GROUP, LLC
CONSULTING BUILDING SYSTEMS
OVERLAND PARK, KS 66213
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www.AcertusGroup.com

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

WoodSpring Suites

Project Address

1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By:
MR / CB / TP
Checked By:
AR / CF
Document Date:
08/16/23
Protocycle:
WSS_v5_2023.1 (05/05/23)
Bulletins Through:
WSS_v2_B08

Project No.

31000541

Professional Seal

STATE OF MISSOURI
RANDALL A. NELSON
NUMBER PE-2007003990
PROFESSIONAL ENGINEER

08/16/23

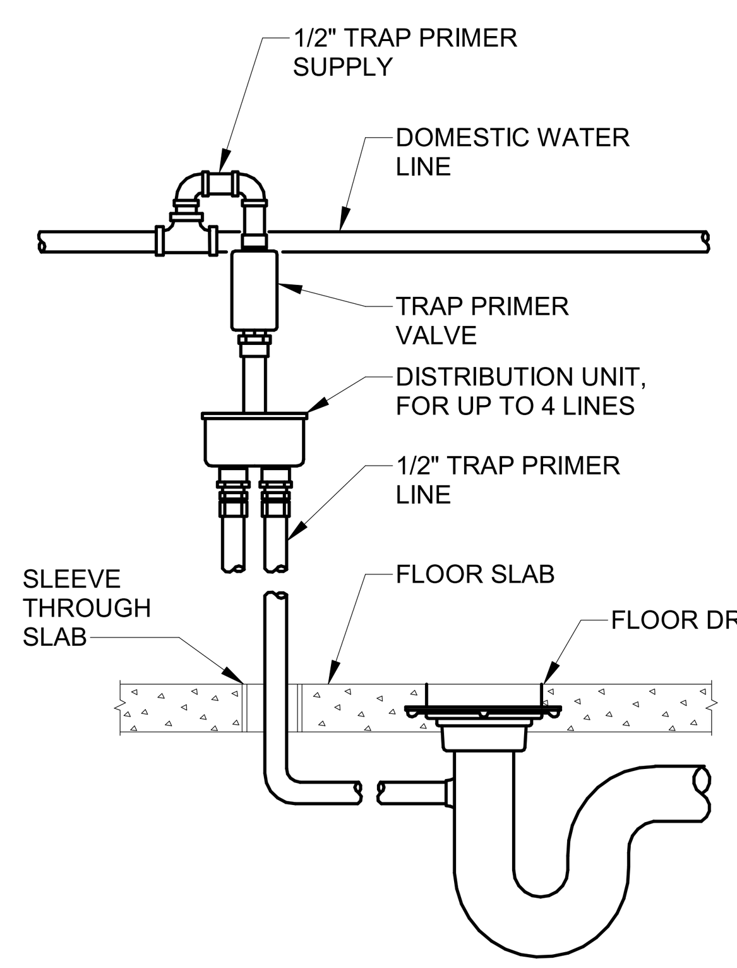
Sheet Title

PLUMBING DOMESTIC WATER RISERS

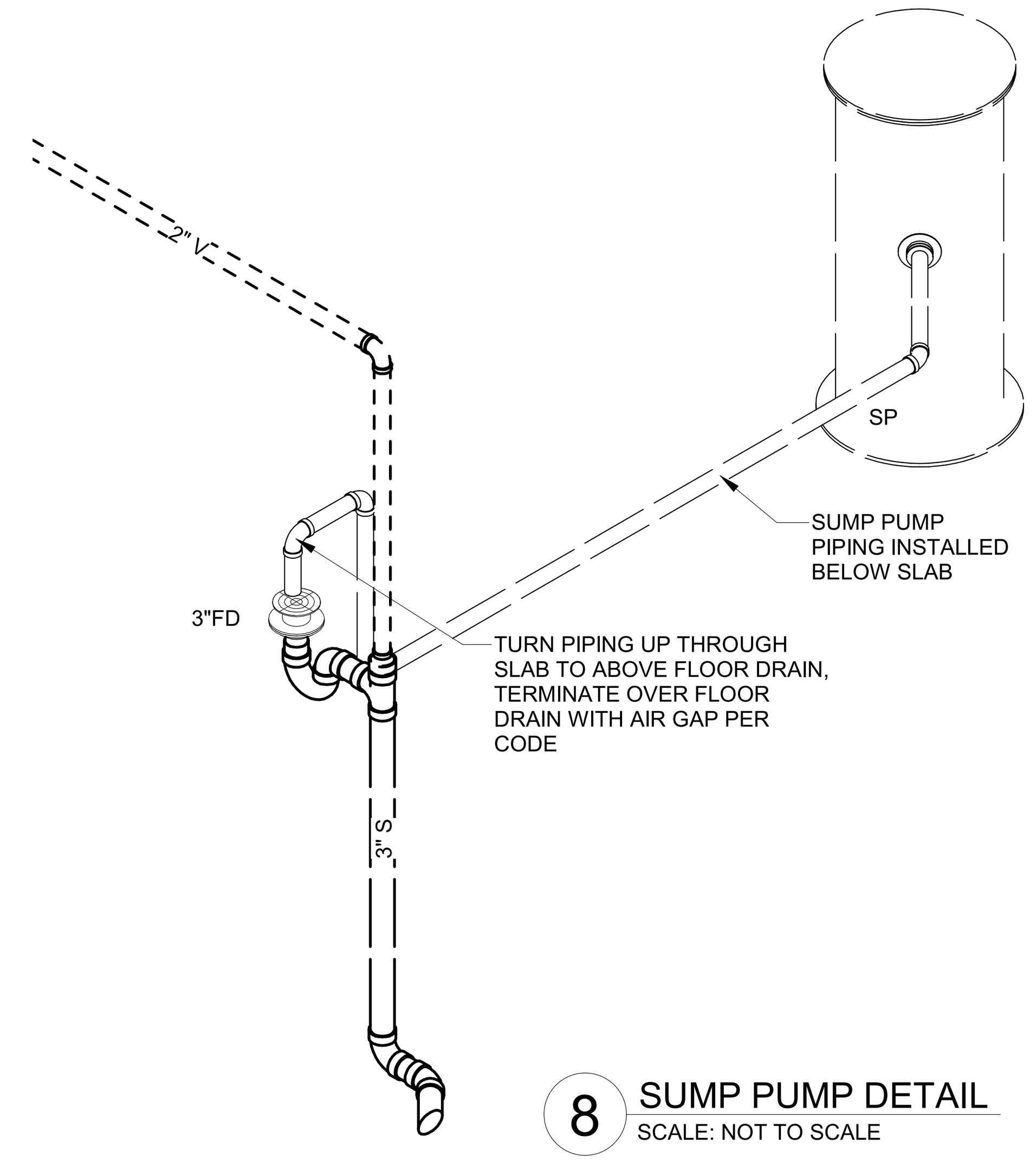
Sheet No.

P-9

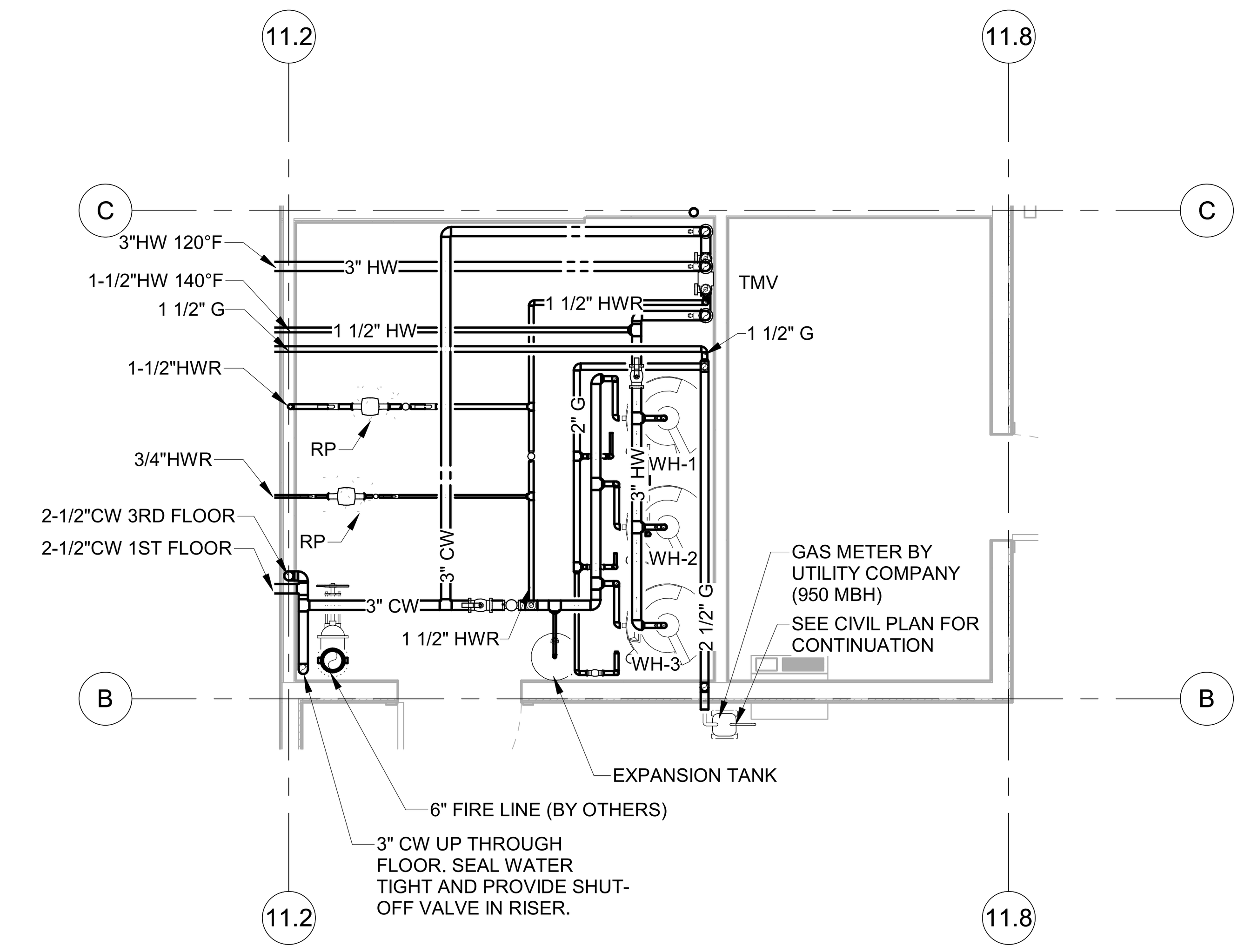
BRR Original printed on recycled paper



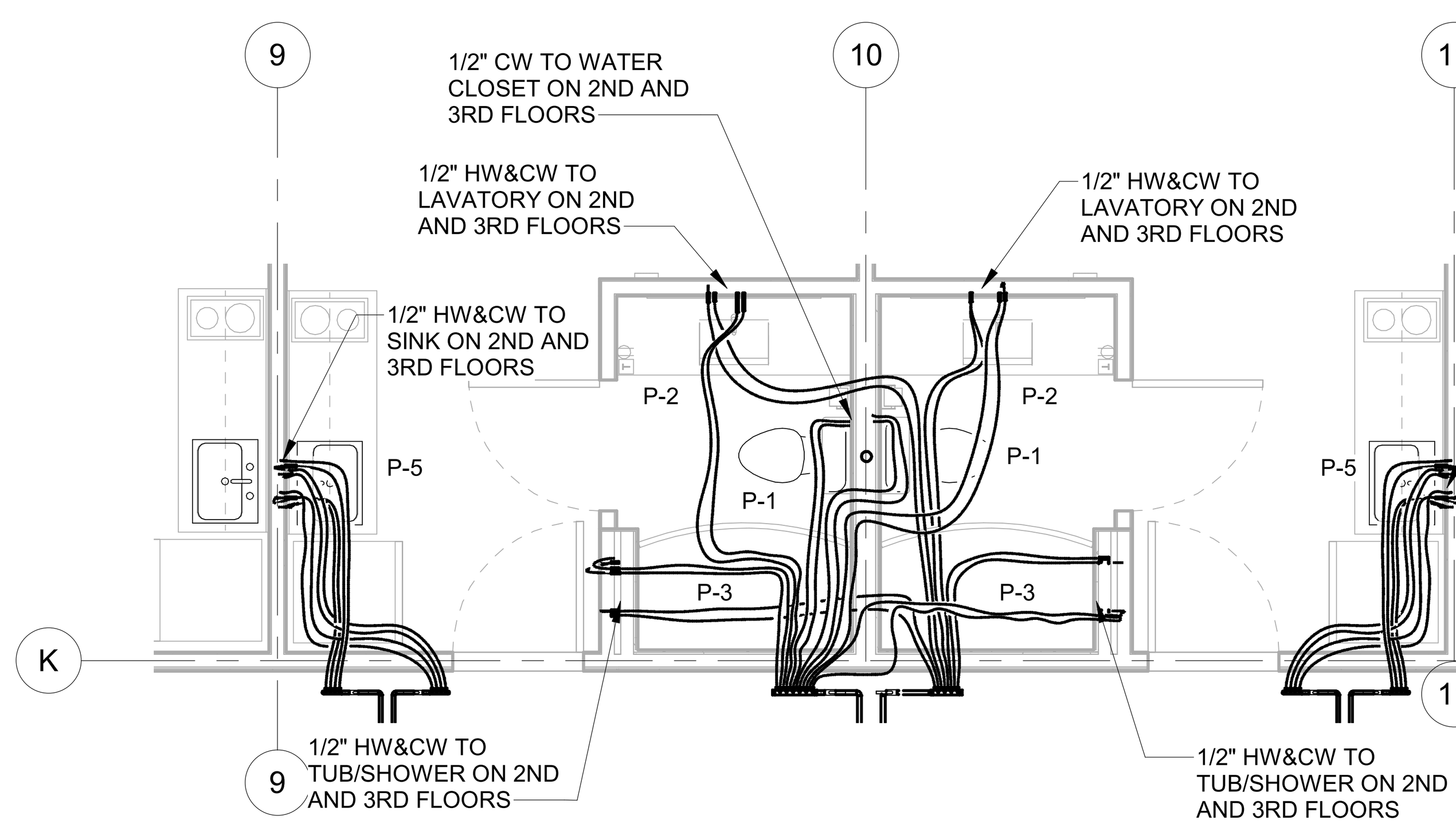
9 TRAP PRIMER DETAIL
SCALE: NOT TO SCALE



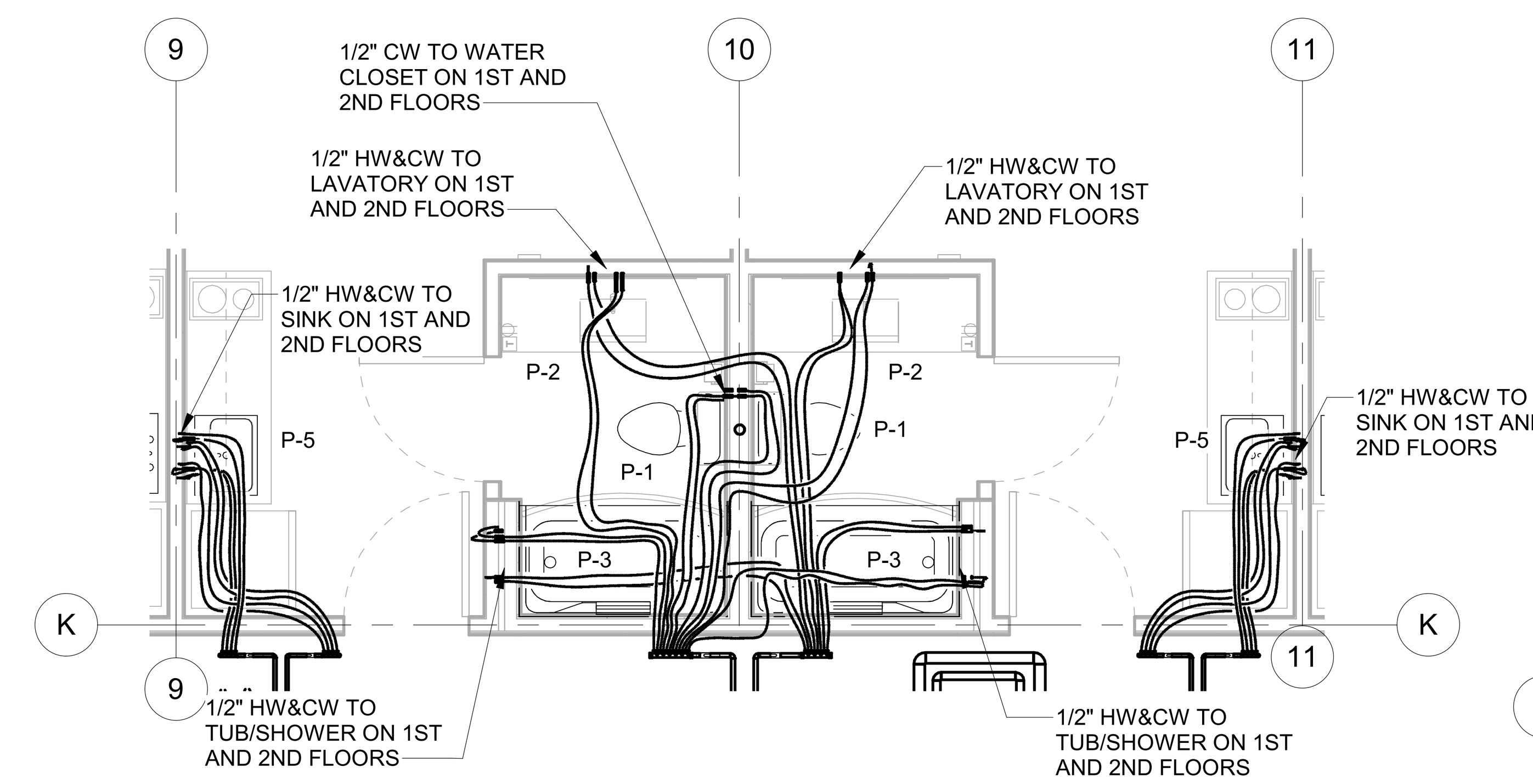
8 SUMP PUMP DETAIL
SCALE: NOT TO SCALE



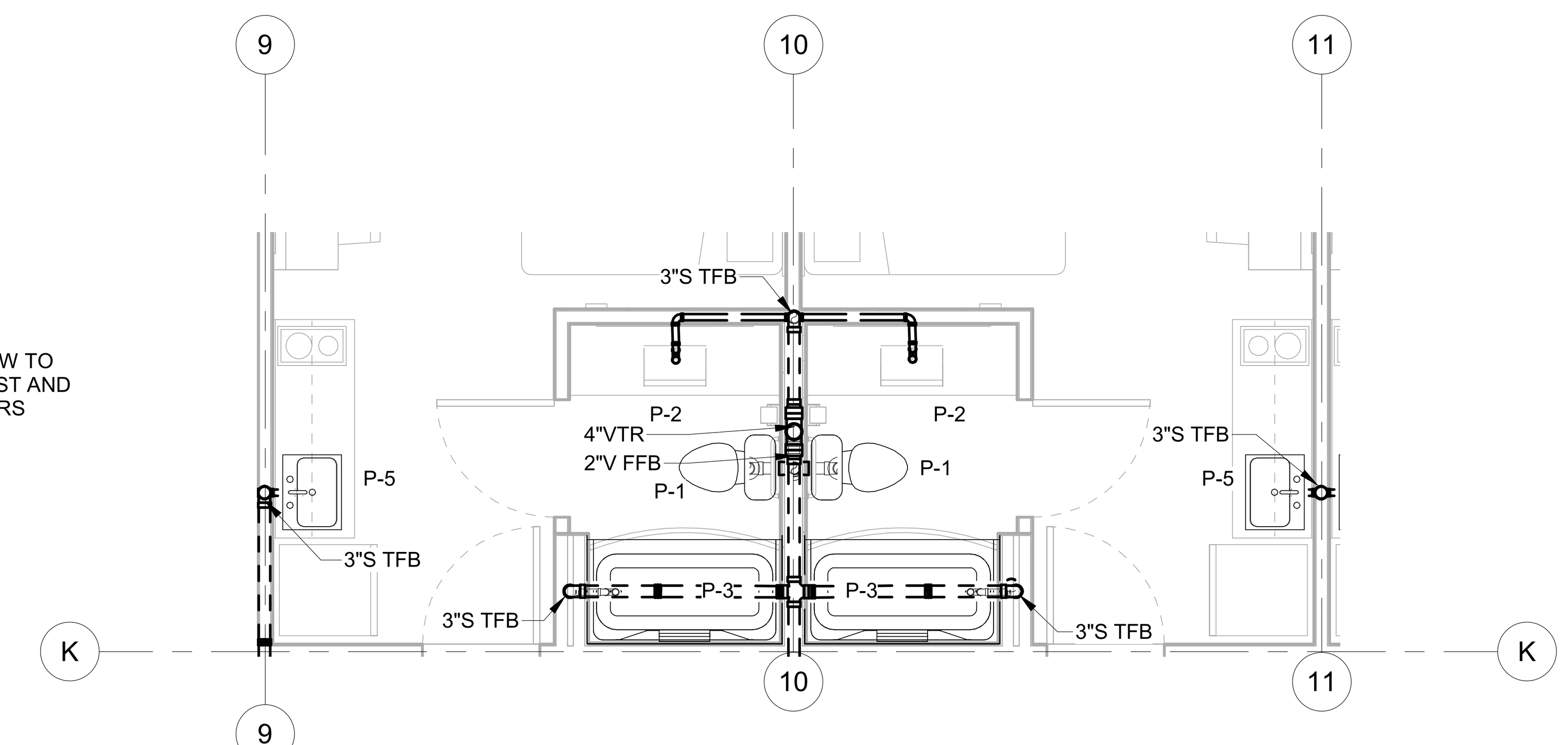
7 ENLARGED MECHANICAL ROOM PLAN
SCALE: 1/4" = 1'-0"



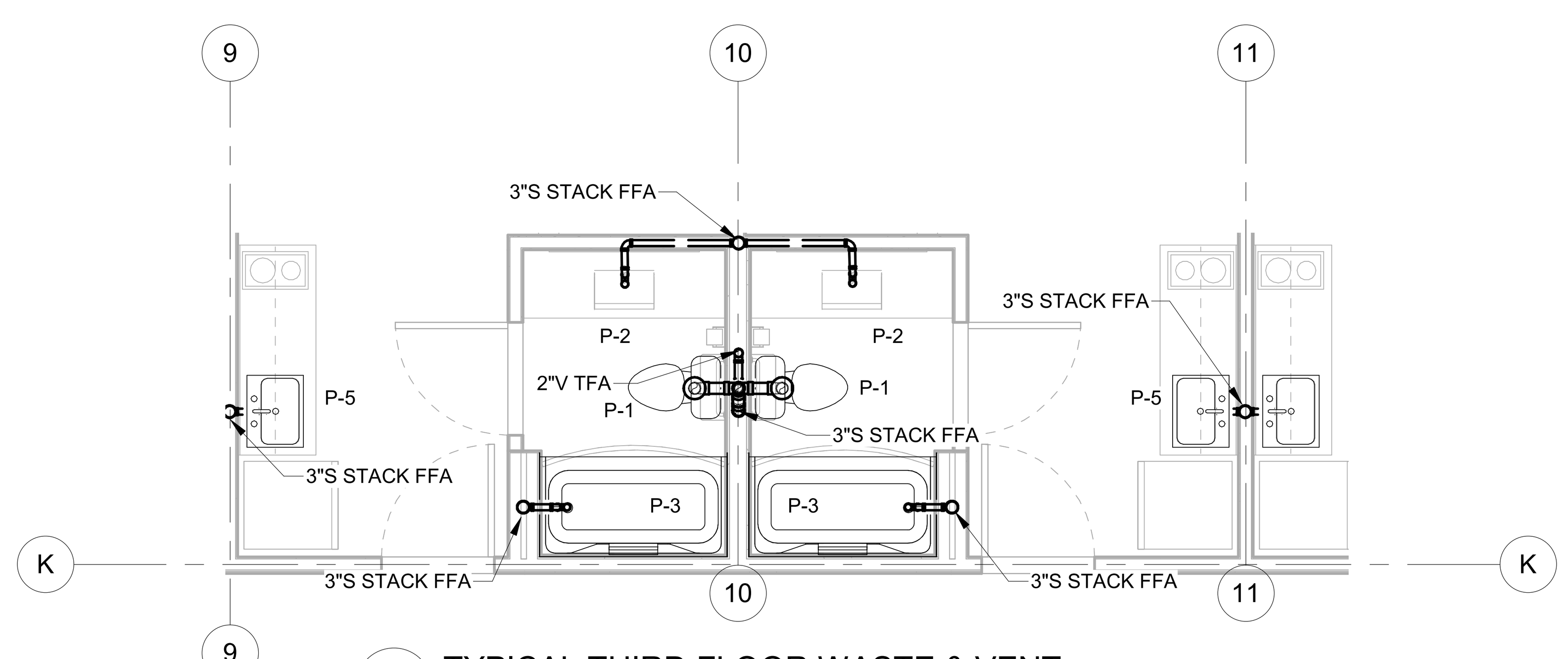
6 TYPICAL THIRD FLOOR WATER
SCALE: 1/4" = 1'-0"



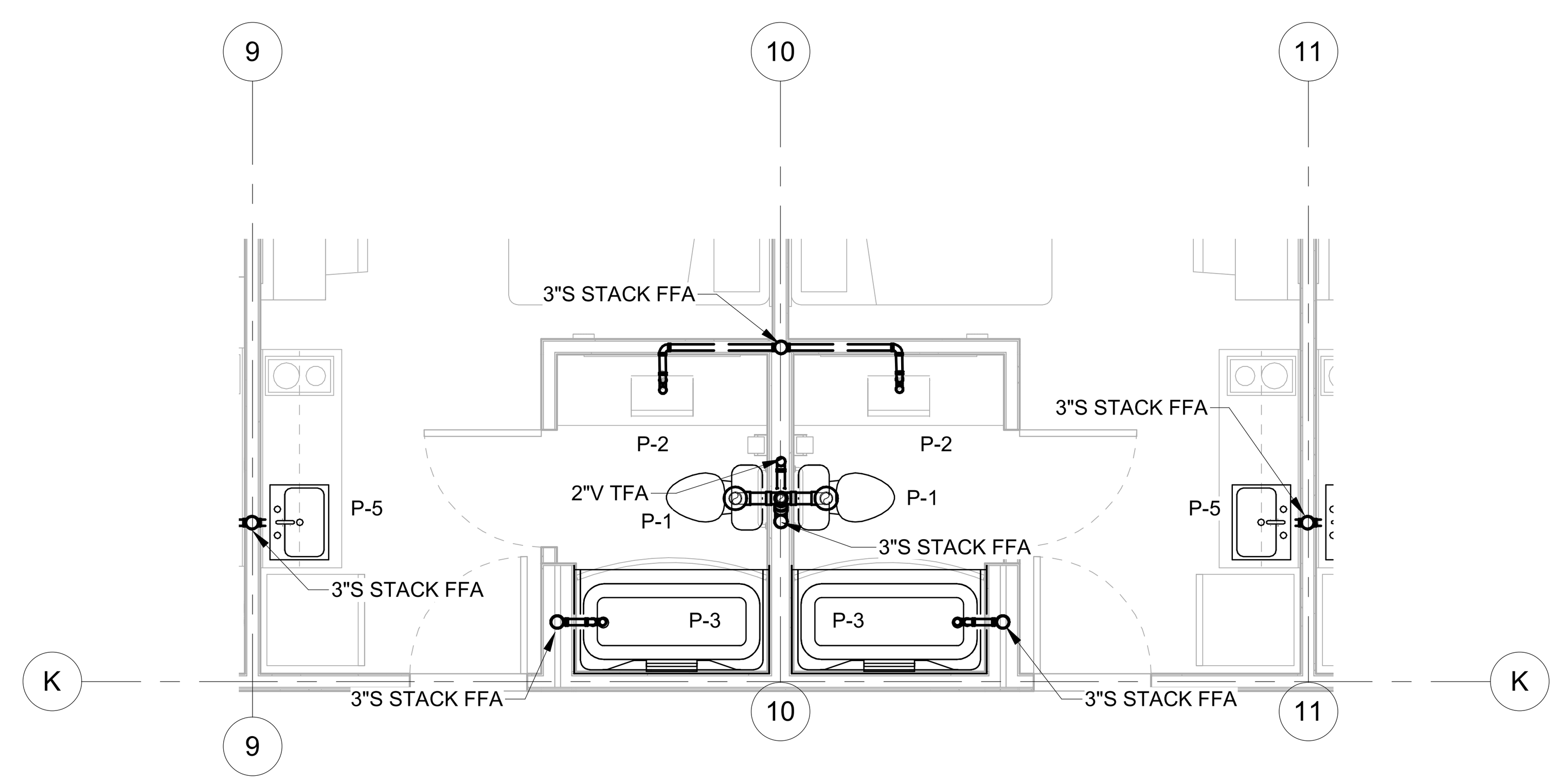
5 TYPICAL FIRST FLOOR WATER
SCALE: 1/4" = 1'-0"



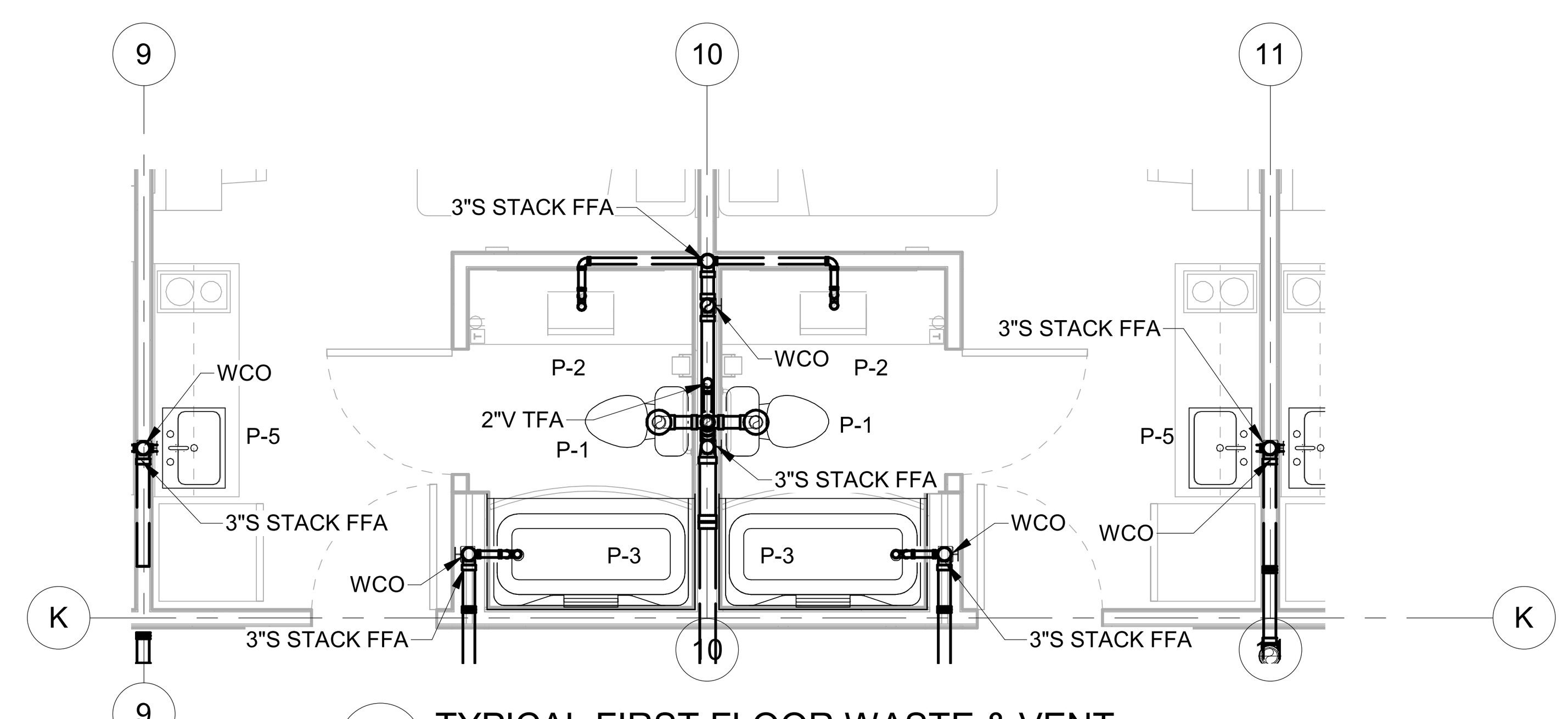
4 TYPICAL FOURTH FLOOR WASTE & VENT
SCALE: 1/4" = 1'-0"



3 TYPICAL THIRD FLOOR WASTE & VENT
SCALE: 1/4" = 1'-0"



2 TYPICAL SECOND FLOOR WASTE & VENT
SCALE: 1/4" = 1'-0"



1 TYPICAL FIRST FLOOR WASTE & VENT
SCALE: 1/4" = 1'-0"

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brr

Architect of Record:
BRR Architecture, Inc.

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ACERTUS CONSULTING GROUP

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WSS_v2_B08

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Professional Seal

STATE OF MISSOURI
RANDALL A. NELSON
NUMBER PE-2007003990
PROFESSIONAL ENGINEER

08/16/23

Sheet Title

PLUMBING ENLARGED PLANS

Sheet No.

P-10

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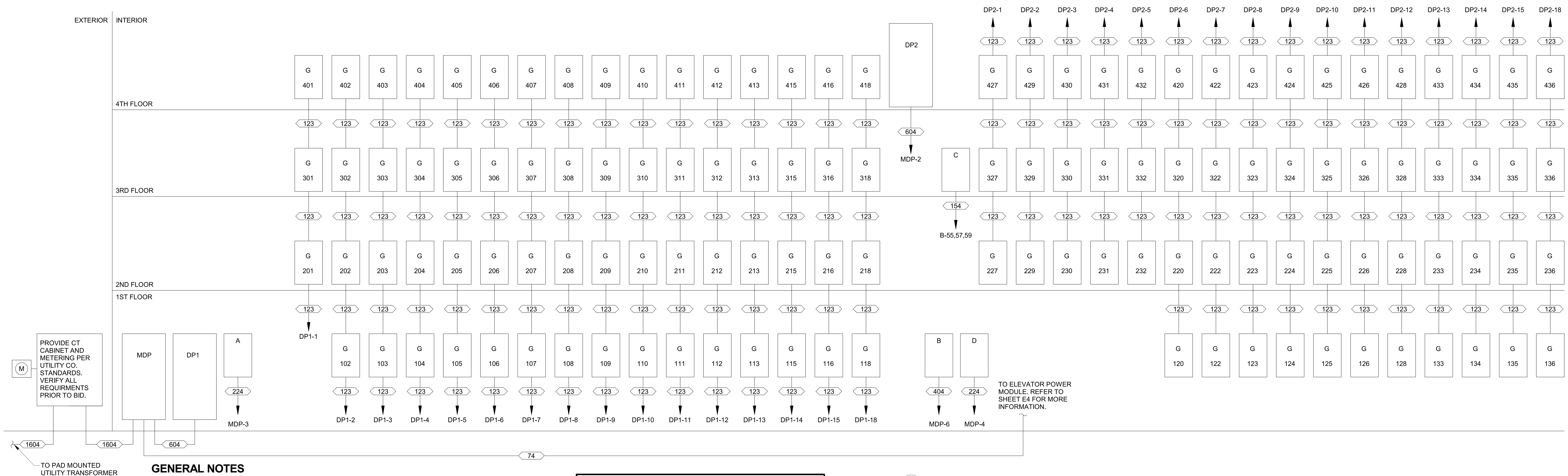


2 ELECTRICAL RISER DIAGRAM
SCALE: NOT TO SCALE

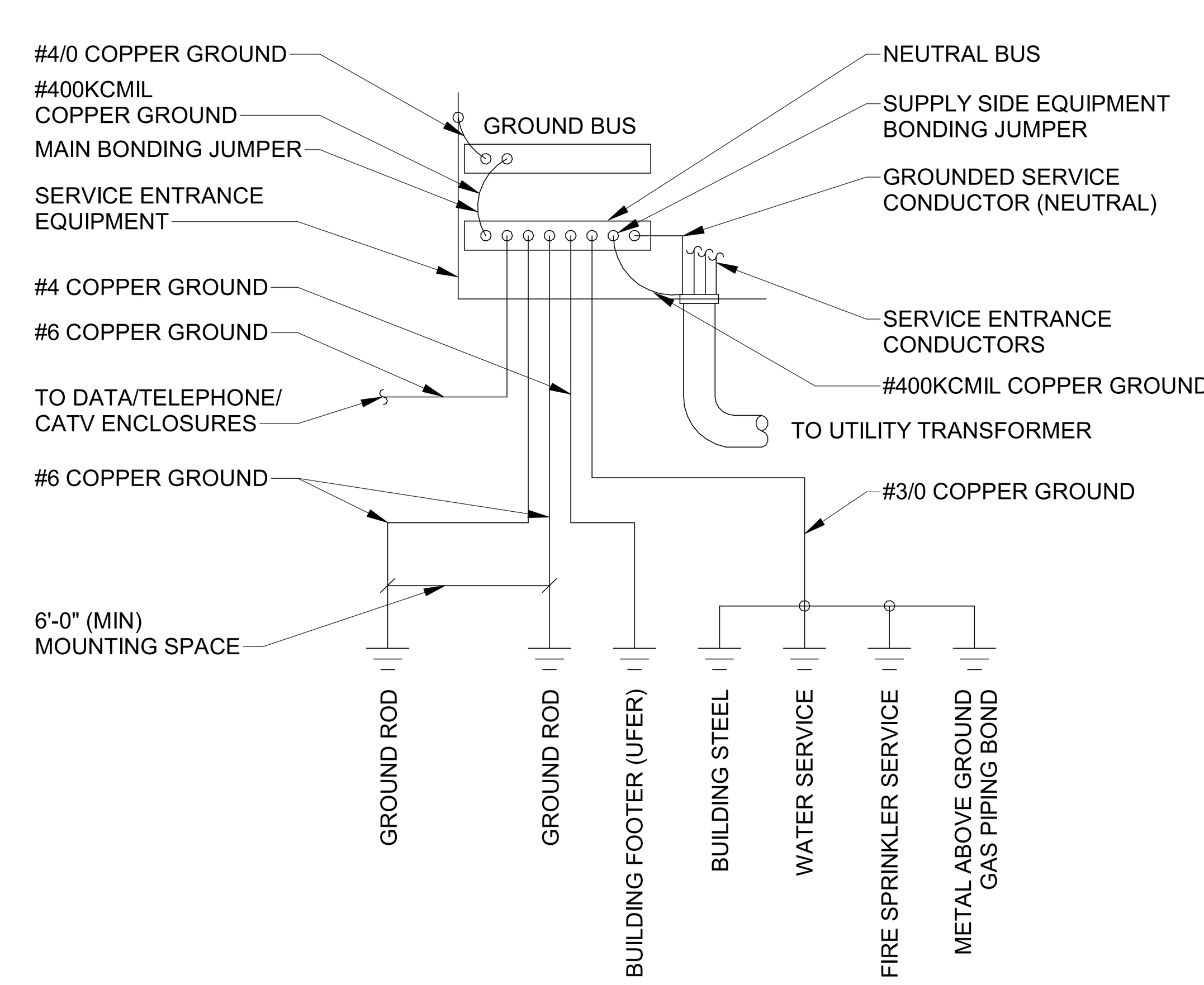
GENERAL NOTES

1. IF REQUIRED BY LOCAL CODE, ELECTRICAL CONTRACTOR SHALL PROVIDE SHUNT TRIP BREAKERS IN PANEL MDP AND REMOTE EXTERIOR LOCAKBLE BUILDING POWER OFF DEVICE TO ACTIVATE SHUNT TRIPS TO KILL ALL POWER TO BUILDING. IF UTILITY COMPANY AVAILABLE FAULT CURRENT EXCEEDS 65K AIC, PROVIDE CURRENT LIMITERS ON EACH SERVICE ENTRANCE CONDUCTOR. VERIFY ALL REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO BID.
2. CONTRACTOR SHALL VERIFY WITH THE OWNER IF LIGHTNING PROTECTION IS REQUIRED ON THE PROJECT. LIGHTNING PROTECTION SHALL BE INCLUDED IN BID WHEN REQUIRED.
3. ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON 6" HIGH CONCRETE HOUSEKEEPING PAD.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT GEAR PROVIDED FOR PROJECT FITS IN THE SPACE PROVIDED.
5. ALL FEEDERS ARE TO BE ALUMINUM (UNLESS NOTED OTHERWISE). IF COPPER FEEDERS ARE REQUIRED BY LOCAL JURISDICTION, CONDUIT AND WIRE TO BE RESIZED BY ELECTRICAL ENGINEER. ALL BRANCH CIRCUITS ARE TO BE COPPER.
6. AVAILABLE FAULT CURRENT AT UTILITY TRANSFORMER IS ASSUMED TO BE 65,000A. LENGTH OF FEEDER FROM UTILITY TRANSFORMER TO 'MDP' IS ASSUMED TO BE 50'-0". VERIFY ALL ASSUMPTIONS IN FIELD AND NOTIFY ENGINNER IF THERE ARE ANY DISCREPANCIES.

FEEDER SCHEDULE

FEEDER TAG	(QUANTITY) CONDUIT SIZE	(QUANTITY) CONDUCTOR SIZE (AL) EACH CONDUIT	GROUND SIZE (AL)	ISOLATED GROUND SIZE
74	(1) 1-1/4"C	(4) #2 (CU)	#8G (CU)	-
123	(1) 2"C	(3) #2/0	#4G	-
154	(1) 2"C	(4) #3/0	#4G	-
224	(1) 2-1/2"C	(4) #300kcmil	#2G	-
404	(2) 2-1/2"C	(4) #250kcmil	#2G	-
604	(2) 4"C	(4) #500kcmil	#2/0G	-
1604	(5) 4"C	(4) #600kcmil	NOTE 1	-

NOTE 1:
PER ARTICLE 250.92 CONTRACTOR SHALL INSTALL #400kcmil BONDING CONDUCTOR FROM EACH SERVICE ENTRANCE CONDUIT TO NEUTRAL BUS IN 'MDP' PROVIDE ALL BONDING OF EQUIPMENT AS REQUIRED.



1 SYSTEM GROUNDING DETAIL
SCALE: NOT TO SCALE

PANELBOARD DP1

BUS AMPS: 600A | LOCATION: ELECTRICAL ROOM 145 | GROUND BUS: YES
MAIN SIZE / TYPE: MLO | NEMA RATING: NEMA 1 | ISOL. GROUND BUS: NO
VOLTS/PHASE: 208Y/120V, 3PH, 4W | AFC VALUE: 48,924A | FEED THRU LUGS: NO
MOUNTING: SURFACE | AIC RATING: 65,000 SERIES RATED | SECTIONS: 1 OF 1

CKT #	CIRCUIT DESCRIPTION	BREAKER AMPS	BREAKER P	WIRE SIZE	LOAD (VA)	A	B	C	LOAD (VA)	WIRE SIZE	BREAKER P	BREAKER AMPS	CIRCUIT DESCRIPTION	CKT #
1	PANELBOARD G (3 UNITS)	125	2	RD	22,575	52,675			30,100	RD	2	125	PANELBOARD G (4 UNITS)	2
					14,232		33,208		18,976					
3	PANELBOARD G (4 UNITS)	125	2	RD	30,100			60,200	30,100	RD	2	125	PANELBOARD G (4 UNITS)	4
					18,976	37,952			18,976					
5	PANELBOARD G (4 UNITS)	125	2	RD	30,100		60,200		30,100	RD	2	125	PANELBOARD G (4 UNITS)	6
					18,976			37,952	18,976					
7	PANELBOARD G (4 UNITS)	125	2	RD	30,100	60,200			30,100	RD	2	125	PANELBOARD G (4 UNITS)	8
					18,976		37,952		18,976					
9	PANELBOARD G (4 UNITS)	125	2	RD	30,100			60,200	30,100	RD	2	125	PANELBOARD G (4 UNITS)	10
					18,976	37,952			18,976					
11	PANELBOARD G (4 UNITS)	125	2	RD	30,100		60,200		30,100	RD	2	125	PANELBOARD G (4 UNITS)	12
					18,976			37,952	18,976					
13	PANELBOARD G (4 UNITS)	125	2	RD	30,100	60,200			30,100	RD	2	125	PANELBOARD G (4 UNITS)	14
					18,976		37,952		18,976					
15	PANELBOARD G (4 UNITS)	125	2	RD	30,100			30,100	0				SPACE ONLY	16
					18,976	18,976			0					
17	SPACE ONLY				0		30,100		30,100	RD	2	125	PANELBOARD G (4 UNITS)	18
					0			18,976	18,976					
	PER PHASE SUB-TOTALS					267,955	259,612	245,380	LEGEND:					

TOTAL CONNECTED PANELBOARD (VA)	772,947	TS - VIA TIME SWITCH	ST - SHUNT TRIP
TOTAL CONNECTED PANELBOARD (AMPS)	2,145	GF - GROUND FAULT INTERRUPTER	LCK - LOCKING TAB
TOTAL PANELBOARD DEMAND (VA)	157,976	FA - FIRE ALARM / RED / LOCKING TAB	IG - ISOLATED GROUND
TOTAL PANELBOARD DEMAND (AMPS)	438	EM - EMERGENCY LTG. / LOCKING TAB	RD - RE: RISER DIAGRAM

PANELBOARD DP2

BUS AMPS: 600A | LOCATION: UTILITY ROOM 440 | GROUND BUS: YES
MAIN SIZE / TYPE: MLO | NEMA RATING: NEMA 1 | ISOL. GROUND BUS: NO
VOLTS/PHASE: 208Y/120V, 3PH, 4W | AFC VALUE: 19,410A | FEED THRU LUGS: NO
MOUNTING: SURFACE | AIC RATING: 65,000 SERIES RATED | SECTIONS: 1 OF 1

CKT #	CIRCUIT DESCRIPTION	BREAKER AMPS	BREAKER P	WIRE SIZE	LOAD (VA)	A	B	C	LOAD (VA)	WIRE SIZE	BREAKER P	BREAKER AMPS	CIRCUIT DESCRIPTION	CKT #
1	PANELBOARD G (3 UNITS)	125	2	RD	22,575	45,150			22,575	RD	2	125	PANELBOARD G (3 UNITS)	2
					14,232		28,464		14,232					
3	PANELBOARD G (3 UNITS)	125	2	RD	22,575			45,150	22,575	RD	2	125	PANELBOARD G (3 UNITS)	4
					14,232	28,464			14,232					
5	PANELBOARD G (3 UNITS)	125	2	RD	22,575		52,675		30,100	RD	2	125	PANELBOARD G (4 UNITS)	6
					14,232			33,208	18,976					
7	PANELBOARD G (4 UNITS)	125	2	RD	30,100	60,200			30,100	RD	2	125	PANELBOARD G (4 UNITS)	8
					18,976		37,952		18,976					
9	PANELBOARD G (4 UNITS)	125	2	RD	30,100			60,200	30,100	RD	2	125	PANELBOARD G (4 UNITS)	10
					18,976	37,952			18,976					
11	PANELBOARD G (4 UNITS)	125	2	RD	30,100		60,200		30,100	RD	2	125	PANELBOARD G (4 UNITS)	12
					18,976			37,952	18,976					
13	PANELBOARD G (4 UNITS)	125	2	RD	30,100	60,200			30,100	RD	2	125	PANELBOARD G (4 UNITS)	14
					18,976		37,952		18,976					
15	PANELBOARD G (4 UNITS)	125	2	RD	30,100			30,100	0				SPACE ONLY	16
					18,976	18,976			0					
17	SPACE ONLY				0		30,100		30,100	RD	2	125	PANELBOARD G (4 UNITS)	18
					0			18,976	18,976					
	PER PHASE SUB-TOTALS					250,942	247,343	225,586	LEGEND:					

TOTAL CONNECTED PANELBOARD (VA)	723,871	TS - VIA TIME SWITCH	ST - SHUNT TRIP
TOTAL CONNECTED PANELBOARD (AMPS)	2,009	GF - GROUND FAULT INTERRUPTER	LCK - LOCKING TAB
TOTAL PANELBOARD DEMAND (VA)	154,475	FA - FIRE ALARM / RED / LOCKING TAB	IG - ISOLATED GROUND
TOTAL PANELBOARD DEMAND (AMPS)	429	EM - EMERGENCY LTG. / LOCKING TAB	RD - RE: RISER DIAGRAM

COMMERCIAL LOAD SUMMARY

BUILDING AREA: 50,470 SQ. FT   VOLTAGE: 208Y/120V, 3PH, 4W

LOAD DESCRIPTION		CONNECTED LOAD (VA)		DEMAND FACTOR		DEMAND LOAD (VA)
LIGHTING						
	INTERIOR LIGHTING	5,410	x	125%	=	0
	EXTERIOR LIGHTING	4,359	x	125%	=	5,449
	SIGNAGE	4,800	x	125%	=	6,000
	MINIMUM GENERAL LIGHTING PER NEC-220 x 125%					12,104
	MINIMUM TRACK LIGHTING/SHOW WINDOW PER NEC-220 x 125%					0
POWER & HVAC						
	EXISTING	0	x	100%	=	0
	RECEPTACLES	15,150	x	100%;50%	=	12,575
	MISCELLANEOUS EQUIPMENT	94,594	x	100%	=	94,594
	REFRIGERATION EQUIPMENT	900	x	100%	=	900
	KITCHEN	0	x	100%	=	0
	HVAC - SUMMER	22,078	x	100%	=	22,078
	HVAC - WINTER	0	x	100%	=	0
	SUPP. ELECTRIC HEAT	53,400	x	100%	=	53,400
	MOTORS	4,461	x	100%	=	4,461
	LARGEST MOTOR	16,212	x	25%	=	4,053
	PANELBOARD 'DP1'	772,947	RE: DP1 DEMAND		=	157,976
	PANELBOARD 'DP2'	723,871	RE: DP2 DEMAND		=	154,475
	SUB-TOTAL (VA)	1,701,970	SUB-TOTAL (VA)			528,065
	SUB-TOTAL (AMPS)	4,724	SUB-TOTAL (AMPS)			1,466
			SERVICE SIZE (AMPS)			1,600
			SPARE CAPACITY (AMPS)			134

PANELBOARD MDP

BUS AMPS: 1600A | LOCATION: ELECTRICAL ROOM 145 | GROUND BUS: YES
MAIN SIZE / TYPE: MLO | NEMA RATING: NEMA 1 / SE RATED | ISOL. GROUND BUS: NO
VOLTS/PHASE: 208Y/120V, 3PH, 4W | AFC VALUE: 54,885A | FEED THRU LUGS: NO
MOUNTING: SURFACE | AIC RATING: 65,000A FULLY RATED | SECTIONS: 1 OF 1

CKT #	CIRCUIT DESCRIPTION	BREAKER AMPS	BREAKER P	WIRE SIZE	LOAD (VA)	A	B	C	LOAD (VA)	WIRE SIZE	BREAKER P	BREAKER AMPS	CIRCUIT DESCRIPTION	CKT #
1	PANELBOARD DP1	600	3	RD	267,955	518,897			250,942	RD	3	600	PANELBOARD DP2	2
					259,612		506,955		247,343					
					245,380			470,966	225,586					
3	PANELBOARD A	225	3	RD	11,943	38,541			26,598	RD	3	225	PANELBOARD D	4
					14,359		39,972		25,613					
					12,421			39,695	27,274					
5	ELEVATOR	60	3	RD	5,404	35,387			29,983	RD	3	400	PANELBOARD B	6
					5,404		37,332		31,928					
					5,404			35,826	30,422					
	PER PHASE SUB-TOTALS					592,825	584,259	546,487	LEGEND:					

TOTAL CONNECTED PANELBOARD (VA)	1,701,970	TS - VIA TIME SWITCH	ST - SHUNT TRIP
TOTAL CONNECTED PANELBOARD (AMPS)	4,724	GF - GROUND FAULT INTERRUPTER	LCK - LOCKING TAB
TOTAL PANELBOARD DEMAND (VA)	528,065	FA - FIRE ALARM / RED / LOCKING TAB	IG - ISOLATED GROUND
TOTAL PANELBOARD DEMAND (AMPS)	1,466	EM - EMERGENCY LTG. / LOCKING TAB	RD - RE: RISER DIAGRAM

PANEL TO HAVE BUILT-IN SPD WITH 240 KA SURGE RATING.

PANELBOARD DP1 DEMAND CALCULATION

BASED ON NEC ARTICLE 220.84, OPTIONAL CALCULATION - MULTIFAMILY DWELLING

NO. OF SUTIES	SUITE TYPE	SUITE SQFT		TOTAL
33	QUEEN SUITE	257	SQFT=	8481.00
2	ACC. QUEEN SUITE	310	SQFT=	620.00
6	DELUXE QUEEN SUITE	330	SQFT=	1980.00
0	ACC. DELUXE QUEEN SUITE	420	SQFT=	0.00
22	DOUBLE QUEEN SUITE	310	SQFT=	6820.00
0	ACC. DOUBLE QUEEN SUITE	420	SQFT=	0.00
63	UNITS WITH A TOTAL SF OF:			17901.00

ROOM LIGHTING AND GENERAL RECEPTACLE WATTAGE (3W/SQFT):	53.70	KVA
SMALL APPLIANCE RECEPTACLES (3,000VA/SUITE):	189.00	KVA
RANGE CONNECTION (2,400VA/SUITE):	151.20	KVA
MICROWAVE RECEPTACLE (1,200VA/SUITE):	75.60	KVA
REFRIGERATOR RECEPTACLE (900VA/SUITE):	56.70	KVA
DISHWASHER RECEPTACLE (NA) (744VA/SUITE):	0.00	KVA
EXHAUST FAN CONNECTIONS (50VA/SUITE):	3.15	KVA
TOTAL LOAD (MINUS HVAC):	529.35	KVA

HVAC LOADS
2500 HEATING (VA) 1373 COOLING (VA)
HEATING/COOLING FOR 63 SUITES: 157.50 KVA 86.50 KVA
LARGER OF HEATING/COOLING LOADS: 157.50 KVA

TOTAL LOAD: 686.85 KVA 23% DEMAND: 157.98 KVA
TOTAL AMPS AT 120/208V, 3PH: 438.50 AMPS

PANELBOARD DP2 DEMAND CALCULATION

BASED ON NEC ARTICLE 220.84, OPTIONAL CALCULATION - MULTIFAMILY DWELLING

NO. OF SUITES	SUITE TYPE	SUITE SQFT		TOTAL
34	QUEEN SUITE	257	SQFT=	8738.00
2	ACC. QUEEN SUITE	310	SQFT=	620.00
4	DELUXE QUEEN SUITE	330	SQFT=	1320.00
1	ACC. DELUXE QUEEN SUITE	420	SQFT=	420.00
16	DOUBLE QUEEN SUITE	310	SQFT=	4960.00
2	ACC. DOUBLE QUEEN SUITE	420	SQFT=	840.00
59	UNITS WITH A TOTAL SF OF:			16898.00

ROOM LIGHTING AND GENERAL RECEPTACLE WATTAGE (3W/SQFT):	50.69	KVA
SMALL APPLIANCE RECEPTACLES (3,000VA/SUITE):	177.00	KVA
RANGE CONNECTION (2,400VA/SUITE):	141.60	KVA
MICROWAVE RECEPTACLE (1,200VA/SUITE):	70.80	KVA
REFRIGERATOR RECEPTACLE (900VA/SUITE):	53.10	KVA
DISHWASHER RECEPTACLE (NA) (744VA/SUITE):	0.00	KVA
EXHAUST FAN CONNECTIONS (50VA/SUITE):	2.95	KVA
TOTAL LOAD (MINUS HVAC):	496.14	KVA

HVAC LOADS
2500 HEATING (VA) 1373 COOLING (VA)
HEATING/COOLING FOR 59 SUITES: 147.50 KVA 81.01 KVA
LARGER OF HEATING/COOLING LOADS: 147.50 KVA

TOTAL LOAD: 643.64 KVA 24% DEMAND: 154.47 KVA
TOTAL AMPS AT 120/208V, 3PH: 428.78 AMPS

brr
Architect of Record:
BRR Architecture, Inc.
8131 METCALF AVE,
SUITE 300
OVERLAND PARK, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044

ACERTUS CONSULTING GROUP
ACERTUS CONSULTING GROUP, LLC
11880 COLLEGE BLVD, STE 475
OVERLAND PARK, KS 66210
P 913 322 5150
www.AcertusGroup.com

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name
WoodSpring Suites

Project Address
1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By: CB / MR / TP
Checked By: AR / CF
Document Date: 08/16/23
Protocycle: WSS_v5_2023.1 (05/05/23)
Bulletins Through: WSS_v2_B08
Project No. 31000541
Professional Seal
STATE OF MISSOURI RANDALL A. NELSON NUMBER PE-2007003990 PROFESSIONAL ENGINEER
08/16/23

Sheet Title
ELECTRICAL RISER DIAGRAM
Sheet No.
E-1

8/15/2023 4:42:32 PM

PANELBOARD A

BUS AMPS: 225A | LOCATION: ELECTRICAL ROOM 145 | GROUND BUS: YES
MAIN SIZE / TYPE: MLO | NEMA RATING: NEMA 1 | ISOL. GROUND BUS: NO
VOLTS/PHASE: 208Y/120V, 3PH, 4W | AFC VALUE: 41,311A | FEED THRU LUGS: NO
MOUNTING: SURFACE | AIC RATING: 65,000A SERIES RATED | SECTIONS: 1 OF 1

	CKT #	CIRCUIT DESCRIPTION	BREAKER AMPS	BREAKER P	WIRE SIZE	LOAD (VA)	CONNECTED PER PHASE (VA) A	B	C	LOAD (VA)	WIRE SIZE	BREAKER P	BREAKER AMPS	CIRCUIT DESCRIPTION	CKT #	
	1	ELECTRICAL/MECHANICAL LIGHTING	20	1	12	297	1,497			1,200	6	1	20	BUILDING SIGNAGE	2	C
	3	FCU-6	40	2	6	2,877		4,077		1,200	8	1	20	BUILDING SIGNAGE	4	C
	5					2,877			4,077	1,200	10	1	20	BUILDING SIGNAGE	6	C
LCK	7	MOTORIZED DAMPER	20	1	12	500	1,700			1,200	8	1	20	BUILDING SIGNAGE	8	C
	9	SPARE	20	1		0		1,188		1,188	4	1	20	SITE LIGHTING	10	C
	11	SPARE	20	1		0			1,040	1,040	4	1	20	SITE LIGHTING	12	C
	13	THIRD FLOOR PTAC-2	20	2	10	1,750	2,790			1,040	4	1	20	SITE LIGHTING	14	C
	15					1,750		2,494		744	12	1	20	WATER HEATER	16	GF
	17	FOURTH FLOOR PTAC-2	20	2	10	1,750			2,494	744	12	1	20	WATER HEATER	18	GF
	19					1,750	2,494			744	12	1	20	WATER HEATER	20	GF
	21	EUH-2	20	2	12	1,500		3,250		1,750	12	2	20	FIRST FLOOR PTAC-2	22	
	23					1,500			3,250	1,750					24	
	25	EUH-4	20	2	12	1,500	3,250			1,750	12	2	20	SECOND FLOOR PTAC-2	26	
	27					1,500		3,250		1,750					28	
	29	CARD READER	20	1	8	500			680	180	12	1	20	ELECTRICAL ROOM RCPT	30	
	31	SPARE	20	1		0	0			0		1	20	SPARE	32	
	33	SPARE	20	1		0		100		100	12	1	20	TIME SWITCH / CONTACTORS	34	
	35	SPARE	20	1		0			880	880	6	1	20	EXTERIOR BUILDING LIGHTING	36	C
	37	SPARE	20	1		0	212			212	8	1	20	EXTERIOR / EM LIGHTING	38	C/EM
	39	SPARE	20	1		0		0		0		1	20	SPARE	40	
	41	SPARE	20	1		0			0	0		1	20	SPARE	42	
		PER PHASE SUB-TOTALS					11,943	14,359	12,421	LEGEND:						

TOTAL CONNECTED PANELBOARD (VA)	38,722
TOTAL CONNECTED PANELBOARD (AMPS)	107
TOTAL PANELBOARD DEMAND (VA)	42,393
TOTAL PANELBOARD DEMAND (AMPS)	118

TS - VIA TIME SWITCH
GF - GROUND FAULT INTERRUPTER
FA - FIRE ALARM / RED / LOCKING TAB
EM - EMERGENCY LTG. / LOCKING TAB
C - ROUTE VIA CONTACTOR
ST - SHUNT TRIP
LCK - LOCKING TAB
IG - ISOLATED GROUND
RD - RE: RISER DIAGRAM

PANELBOARD B

BUS AMPS: 400A | LOCATION: STORAGE 144 | GROUND BUS: YES
MAIN SIZE / TYPE: MLO | NEMA RATING: NEMA 1 | ISOL. GROUND BUS: NO
VOLTS/PHASE: 208Y/120V, 3PH, 4W | AFC VALUE: 15,906A | FEED THRU LUGS: NO
MOUNTING: SURFACE | AIC RATING: 42,000A SERIES RATED | SECTIONS: 1 OF 1

	CKT #	CIRCUIT DESCRIPTION	BREAKER AMPS	BREAKER P	WIRE SIZE	LOAD (VA)	CONNECTED PER PHASE (VA) A	B	C	LOAD (VA)	WIRE SIZE	BREAKER P	BREAKER AMPS	CIRCUIT DESCRIPTION	CKT #	
	1	FIRST FLOOR PTAC-2	20	2	10	1,750	3,010			1,260	8	1	20	FIRST FLOOR RCPT	2	
	3					1,750		2,886		1,136	10	1	20	FIRST FLOOR / EM LTG	4	EM
	5	SECOND FLOOR PTAC-2	20	2	12	1,750			3,010	1,260	8	1	20	SECOND FLOOR RCPT	6	
	7					1,750	2,560			810	10	1	20	SECOND FLOOR / EM LTG	8	EM
	9	ELECTRIC ROOM PTAC-3	20	2	10	1,450		1,990		540	12	1	20	SECOND FLOOR UTILITY RCPT	10	
	11					1,450			1,950	500	12	1	20	ROUTER	12	
	13	SECOND FLOOR PTAC-2	20	2	8	1,750	2,310			560	10	1	20	STAIRWELL / EM LTG	14	EM
	15					1,750		2,750		1,000	12	1	20	CATV	16	
	17	SPARE	20	1		0			1,000	1,000	10	1	20	ITB	18	
	19	SPARE	20	1		0	1,000			1,000	10	1	20	DTB	20	
	21	EUH-1	20	2	10	1,500		2,500		1,000	12	1	20	TTB	22	
	23					1,500			1,700	200	12	1	20	FIRE SMOKE DAMPERS	24	FA
	25	EUH-3	20	2	8	1,500	2,500			1,000	12	1	20	FACP	26	FA
	27					1,500		1,704		204	12	1	20	RCP-1	28	
	29	LOBBY RCPT	20	1	12	1,080			1,580	500	8	1	20	DOOR MAG-LOCK SYSTEM	30	
	31	SUMP PUMP	20	1	12	1,170	1,670			500	12	1	20	CCTV MONITORS	32	
	33	ELEVATOR SHAFT RCPT	20	1	12	360		540		180	12	1	20	TWO-WAY COMM. STATION	34	
	35	ELEVATOR CAB	20	1	12	1,000			2,500	1,500	12	1	20	VENDING	36	GF
	37	ELEVATOR SHAFT LIGHTING	20	1	12	120	1,620			1,500	12	1	20	VENDING	38	GF
EM	39	STORAGE AND BATHROOM LTG	20	1	12	243		1,743		1,500	12	1	20	VENDING	40	GF
	41	SPARE	20	1		0			1,500	1,500	12	1	20	VENDING	42	GF
	43	STORAGE AND VENDING RCPT	20	1	12	900	1,150			250	10	3	15	STAFF DRYER	44	
	45	STAFF WASHER	15	2	10	750		1,000		250					46	GF
	47					750			1,000	250					48	
	49	STAFF WASHER	15	2	10	750	1,000			250	10	3	15	STAFF DRYER	50	
	51					750		1,000		250					52	GF
	53	COFFE MAKER	20	1	8	1,584			1,834	250					54	
	55	PANELBOARD 'C'	150	3	RD	12,963	13,163			200	12	1	20	EMPLOYEE TIME CLOCK	56	
	57					15,815		15,815		0		1	20	SPARE	58	
	59					14,348			14,348	0		1	20	SPARE	60	
		PER PHASE SUB-TOTALS					29,983	31,928	30,422	LEGEND:						

TOTAL CONNECTED PANELBOARD (VA)	92,333
TOTAL CONNECTED PANELBOARD (AMPS)	256
TOTAL PANELBOARD DEMAND (VA)	93,505
TOTAL PANELBOARD DEMAND (AMPS)	260

TS - VIA TIME SWITCH
GF - GROUND FAULT INTERRUPTER
FA - FIRE ALARM / RED / LOCKING TAB
EM - EMERGENCY LTG. / LOCKING TAB
ST - SHUNT TRIP
LCK - LOCKING TAB
IG - ISOLATED GROUND
RD - RE: RISER DIAGRAM

PANEL TO HAVE BUILT-IN SPD WITH 120 KA SURGE RATING.

PANELBOARD C

BUS AMPS: 225A | LOCATION: UTILITY ROOM 340 | GROUND BUS: YES
MAIN SIZE / TYPE: MLO | NEMA RATING: NEMA 1 | ISOL. GROUND BUS: NO
VOLTS/PHASE: 208Y/120V, 3PH, 4W | AFC VALUE: 6,398A | FEED THRU LUGS: NO
MOUNTING: SURFACE | AIC RATING: 10,000A SERIES RATED | SECTIONS: 1 OF 1

	CKT #	CIRCUIT DESCRIPTION	BREAKER AMPS	BREAKER P	WIRE SIZE	LOAD (VA)	CONNECTED PER PHASE (VA) A	B	C	LOAD (VA)	WIRE SIZE	BREAKER P	BREAKER AMPS	CIRCUIT DESCRIPTION	CKT #	
	1	FOURTH FLOOR RCPT	20	1	8	1,260	2,520			1,260	8	1	20	THIRD FLOOR RCPT	2	
	3	FOURTH FLOOR PTAC-2	20	2	8	1,750		3,500		1,750	8	2	20	THIRD FLOOR PTAC-2	4	
	5					1,750			3,500	1,750					6	
	7	FOURTH FLOOR PTAC-2	20	2	8	1,750	3,500			1,750	8	2	20	THIRD FLOOR PTAC-2	8	
	9					1,750		3,500		1,750					10	
EM	11	FOURTH FLOOR / EM LTG / EF-2	20	1	10	604			1,238	634	10	1	20	THIRD FLOOR / EM LTG / EF-6	12	EM
	13	FOURTH FLOOR UTILITY RCPT	20	1	12	360	720			360	12	1	20	THIRD FLOOR UTILITY RCPT	14	
	15	HP-6	35	2	8	2,751		4,631		1,880	8	2	25	HP-1	16	
	17					2,751			4,631	1,880					18	
	19	ROOF TOP RCPT	20	1	12	540	1,762			1,222	12	2	20	HP-2	20	
	21	FCU-4	15	2	12	180		1,402		1,222					22	
	23					180			3,419	3,239	8	2	35	HP-3	24	
	25	HP-4	20	2	12	1,222	4,461			3,239					26	
	27					1,222		2,782		1,560	12	2	15	HP-5	28	
	29	SPARE	20	1		0			1,560	1,560					30	
	31	SPACE ONLY				0	0			0				SPACE ONLY	32	
	33	SPACE ONLY				0		0		0				SPACE ONLY	34	
	35	SPACE ONLY	TG			0			0	0				SPACE ONLY	36	
	37	SPACE ONLY				0	0			0				SPACE ONLY	38	
	39	SPACE ONLY				0		0		0				SPACE ONLY	40	
	41	SPACE ONLY				0			0	0				SPACE ONLY	42	
		PER PHASE SUB-TOTALS					12,963	15,815	14,348	LEGEND:						

TOTAL CONNECTED PANELBOARD (VA)	43,126
TOTAL CONNECTED PANELBOARD (AMPS)	120
TOTAL PANELBOARD DEMAND (VA)	43,555
TOTAL PANELBOARD DEMAND (AMPS)	121

TS - VIA TIME SWITCH
GF - GROUND FAULT INTERRUPTER
FA - FIRE ALARM / RED / LOCKING TAB
EM - EMERGENCY LTG. / LOCKING TAB
ST - SHUNT TRIP
LCK - LOCKING TAB
IG - ISOLATED GROUND
RD - RE: RISER DIAGRAM

PANELBOARD D

BUS AMPS: 225A | LOCATION: GUEST LAUNDRY 142 | GROUND BUS: YES
MAIN SIZE / TYPE: MLO | NEMA RATING: NEMA 1 | ISOL. GROUND BUS: NO
VOLTS/PHASE: 208Y/120V, 3PH, 4W | AFC VALUE: 6,947A | FEED THRU LUGS: NO
MOUNTING: RECESSED | AIC RATING: 22,000A SERIES RATED | SECTIONS: 1 OF 1

	CKT #	CIRCUIT DESCRIPTION	BREAKER AMPS	BREAKER P	WIRE SIZE	LOAD (VA)	CONNECTED PER PHASE (VA) A	B	C	LOAD (VA)	WIRE SIZE	BREAKER P	BREAKER AMPS	CIRCUIT DESCRIPTION	CKT #	
GF	1	GUEST WASHER	20	1	12	1,176	4,136			2,960	8	2	40	FCU-1	2	
GF	3	GUEST WASHER	20	1	12	1,176		4,136		2,960					4	
GF	5	GUEST WASHER	20	1	12	1,176			4,053	2,877	8	2	40	FCU-2	6	
GF	7	GUEST WASHER	20	1	12	1,176	4,053			2,877					8	
GF	9	GUEST WASHER	20	1	12	1,176		4,417		3,241	8	2	40	FCU-3	10	
GF	11	GUEST DRYER	30	2	10	2,600			5,841	3,241					12	
	13					2,600	3,883			1,283	12	1	20	GUEST LAUNDRY / LOBBY / EM LTG	14	EM
GF	15	GUEST DRYER	30	2	10	2,600		3,680		1,080	12	1	20	GUEST LAUNDRY RCPT	16	
	17					2,600			3,680	1,080	12	1	20	STAFF LAUNDRY RCPT	18	
GF	19	GUEST DRYER	30	2	10	2,600	3,776			1,176	12	1	20	GUEST WASHER	20	GF
	21					2,600		3,500		900	12	1	20	REGISTRATION RCPT	22	
GF	23	GUEST DRYER	30	2	10	2,600			3,680	1,080	12	1	20	REGISTRATION RCPT	24	
	25					2,600	3,800			1,200	12	1	20	STAFF MICROWAVE	26	GF
GF	27	GUEST DRYER	30	2	10	2,600		3,500		900	12	1	20	STAFF REFRIGERATOR	28	GF
	29					2,600			3,320	720	12	1	20	FITNESS RCPT	30	
GF	31	GUEST DRYER	30	2	10	2,600	3,350			750	12	1	20	FITNESS TELEVISION	32	
	33					2,600		2,780		180	12	1	20	HEAT TRACE	34	GFEP
GF	35	GUEST DRYER	30	2	10	2,600			3,100	500	12	1	20	MOTORIZED DAMPERS	36	LCK
	37					2,600	3,100			500	12	1	20	REGISTRATION COMPUTER	38	
GF	39	GUEST DRYER	30	2	10	2,600		3,100		500	12	1	20	REGISTRATION COMPUTER	40	
	41					2,600			3,100	500	12	1	20	REGISTRATION COMPUTER (FUTURE)	42	
	43	ELIPTICAL	20	1	12	500	500			0		1	20	SPARE	44	
	45	TREADMILL	20	1	12	500		500		0		1	20	SPARE	46	
	47	TREADMILL	20	1	12	500			500	0		1	20	SPARE	48	
	49	SPACE ONLY				0	0			0				SPACE ONLY	50	
	51	SPACE ONLY				0		0		0				SPACE ONLY	52	
	53	SPACE ONLY				0			0	0				SPACE ONLY	54	
	55	SPACE ONLY				0	0			0				SPACE ONLY	56	
	57	SPACE ONLY				0		0		0				SPACE ONLY	58	
	59	SPACE ONLY				0			0	0				SPACE ONLY	60	
		PER PHASE SUB-TOTALS					26,598	25,613	27,274	LEGEND:						

TOTAL CONNECTED PANELBOARD (VA)	79,485
TOTAL CONNECTED PANELBOARD (AMPS)	221
TOTAL PANELBOARD DEMAND (VA)	80,076
TOTAL PANELBOARD DEMAND (AMPS)	222

TS - VIA TIME SWITCH
GF - GROUND FAULT INTERRUPTER
FA - FIRE ALARM / RED / LOCKING TAB
EM - EMERGENCY LTG. / LOCKING TAB
GFEP - GROUND FAULT EQUIPMENT PROTECTION
ST - SHUNT TRIP
LCK - LOCKING TAB
IG - ISOLATED GROUND
RD - RE: RISER DIAGRAM

PANELBOARD G (TYPICAL OF 122 REQUIRED)

MIN. SIZE LOAD CENTER CONSTRUCTION RQ'D

BUS AMPS: 125A | LOCATION: GUEST SUITE | GROUND BUS: YES
MAIN SIZE / TYPE: MLO | NEMA RATING: NEMA 1 | ISOL. GROUND BUS: NO
VOLTS/PHASE: 208Y/120V, 1PH, 3W | AFC VALUE: 18,272 | FEED THRU LUGS: YES
MOUNTING: RECESSED | AIC RATING: 22,000 SERIES RATED | SECTIONS: 1 OF 1

	CKT #	CIRCUIT DESCRIPTION	BREAKER AMPS	BREAKER P	WIRE SIZE	LOAD (VA)	CONNECTED PER PHASE (VA) *		*	LOAD (VA)	WIRE SIZE	BREAKER P	BREAKER AMPS	CIRCUIT DESCRIPTION	CKT #	
AF	1	ROOM RCPT AND LIGHTING	20	1	12	1,175	2,075			900	12	1	20	REFRIGERATOR	2	AF/GF
	3	BATHROOM RCPT AND LIGHTING	20	1	12	1,094			2,294	1,200	12	1	20	MICROWAVE	4	AF
AF	5	KITCHEN	20	1	12	1,500	3,000			1,500	12	1	20	KITCHEN	6	AF
AF	7	GUESTROOM PTAC-1	15	2	12	1,250			2,450	1,200	12	2	20	RANGE	8	AF
	9					1,250	2,450			1,200					10	
	11	SPACE ONLY				0			0	0				SPACE ONLY	12	
	13	SPACE ONLY				0	0			0				SPACE ONLY	14	
	15	SPACE ONLY				0			0	0				SPACE ONLY	16	
		PER PHASE SUB-TOTALS					7,525		4,744	LEGEND:						

TOTAL CONNECTED PANELBOARD (VA)	12,269
TOTAL CONNECTED PANELBOARD (AMPS)	59
TOTAL PANELBOARD DEMAND (VA)	12,297
TOTAL PANELBOARD DEMAND (AMPS)	59

* - PHASES VARY DEPENDING ON FEEDER FROM PANELBOARDS 'DP1' AND 'DP2'.

TS - VIA TIME SWITCH
GF - GROUND FAULT INTERRUPTER
FA - FIRE ALARM / RED / LOCKING TAB
EM - EMERGENCY LTG. / LOCKING TAB
AF - COMBINATION TYPE ARC FAULT CIRCUIT INTERRUPTER
ST - SHUNT TRIP
LCK - LOCKING TAB
IG - ISOLATED GROUND
RD - RE: RISER DIAGRAM

LIGHT FIXTURE SCHEDULE

FIXTURE TAG	MANUFACTURER	MODEL NUMBER	LAMP NO.	LAMP TYPE	VOLTAGE	TOTAL VA	FINISH	MOUNTING	REMARKS
A	ACUITY	6RLS 10LM 30K 90CRI 120 FRPC WH	-	LED W/UNIT	120	15	WHITE	SURFACE/CEILING	GR/PUBLIC SPACES
B	ACUITY	FMVCSL 48IN MVOLT 30K 90CRI BN	-	LED W/UNIT	120	34	NICKEL	SURFACE	GUESTROOM VANITY LIGHT
B1	ACUITY	FMVCSL 24IN MVOLT 30K 90CRI BN	-	LED W/UNIT	120	18	NICKEL	SURFACE	PUBLIC RR VANITY LIGHT
C	ACUITY	FMLWL 40 840	-	LED W/UNIT	120	40	WHITE	SURFACE/CEILING	LINEAR LED
D	ACUITY	VW1501M12	1	LED - 20W	120	20	WHITE	SURFACE/CEILING	UTILITY LIGHT/ELEVATOR PIT
E	ACUITY	N1LWH	-	LED W/UNIT	120	2	WHITE	7'-6" AFF	EMERGENCY LIGHT
F	ACUITY	OLWX2 LED 90W 40K DDB	-	LED W/UNIT	120	88	BRONZE	SURFACE	WALL MOUNT. SEE ARCH. DRAWINGS FOR LOCATION
G	STARTEX	STX-SC616	-	LED W/UNIT	120	9	CHROME	6'-0" AFF	CORRIDOR WALL SCONCE
L	LITON	WD1340-L15BZ-EMAC	-	LED W/UNIT	120	15	BRONZE	8'-0" AFF	EXTERIOR WALL PACK W/ EMERGENCY BACKUP
M	STARTEX	STX-PD614	-	LED W/UNIT	120	50	BLACK	PENDANT	LOBBY PENDANT
XA	ACUITY	NXPB-3-R-WH	-	LED W/UNIT	120	3	WHITE	CEILING/VARIES	EXIT LIGHT
XB	ACUITY	ECBR LED M6	-	LED W/UNIT	120	2	WHITE	7'-6" AFF	EXIT/EMERGENCY LIGHT COMBO

NOTES:

1. VERIFY IF BATTERY HEATER IS REQUIRED.
2. GENERAL CONTRACTOR SHALL PROVIDE FIREPROOFING AROUND RECESSED FIXTURES INSTALLED IN FIRE RATED CEILING PER U.L. REQUIREMENTS.
3. SEE SPECIFICATIONS FOR LAMP AND BALLAST TYPE. VERIFY LAMP COLOR WITH ARCHITECT PRIOR TO ORDERING.
4. PROVIDE ARROWS AND FACES AS INDICATED IN THE DRAWINGS.
5. NO SUBSTITUIONS OF VENDORS OR PRODUCTS ON LIGHT FIXTURES UNLESS APPROVED BY WOODSPRING SUITES, THE ARCHITECT, AND OWNER.
6. PROVIDE ONE EXIT SIGN UP HIGH AND ONE DOWN LOW PER LOCAL AND NATIONAL CODES. PROVIDE INTERCONNECTION BETWEEN UNITS AS REQUIRED.

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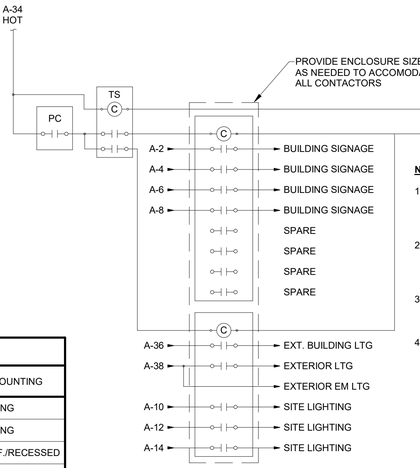
GENERAL NOTES:

1. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
2. REFER TO RELATED ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION.
3. REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
4. COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING OF BRICK BLOCK.
5. ALL MOUNTING HEIGHTS TO BOTTOM OF ITEM UNLESS OTHERWISE NOTED.
6. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTION OF INTERLOCKING AND CONTROLS OF MECHANICAL UNITS AND THERMOSTAT LOCATIONS.
7. RUN CONDUIT W/ CONDUCTORS AS INDICATED, CONDUIT SIZE AS REQUIRED. CONDUIT RUN TO PANEL DEVICE SIZE AS INDICATED (AMP/POLE). CIRCUIT WITHOUT INDICATION IS ROUTED TO 20A., 1P. BREAKER. DO NOT RUN MULTIPLE CIRCUITS IN ONE CONDUIT.
8. "CT" INDICATED ADJACENT TO DEVICE INDICATES DEVICE IS MOUNTED ABOVE BACKSPLASH OF COUNTER TOP. VERIFY EXACT HEIGHT WITH ARCHITECTURAL PLANS AND ELEVATIONS.
9. A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL POWER, RECEPTACLE, AND LIGHTING CIRCUITS. GROUND CONDUCTORS ARE NOT SHOWN ON DRAWINGS.
10. TYPE NM, AC, OR MC CABLE MAY BE USED WHERE ALLOWED BY THE APPLICABLE EDITION OF THE N.E.C. AND WHERE ACCEPTABLE TO THE LOCAL AUTHORITY HAVING JURISDICTION. VERIFY PRIOR TO BID.
11. ALL PHONES OR SWITCHES ON A WALL WITH FRP TO BE +44" AFF MAXIMUM. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.
12. OUTLET BOXES FOR LIGHTING AND DEVICES SHALL BE MINIMUM REQUIRED BY CODE FOR INSTALLATION SHOWN.
13. WHEN INSTALLING ELECTRICAL OUTLET BOXES IN SHEAR WALLS, CONTRACTOR SHALL CUT APPLICABLE OPENINGS NEATLY AND IN ACCORDANCE WITH MAINTAINING STRUCTURAL, FIRE, AND SOUND RATINGS.
14. IN ALL AREAS SPECIFIED BY 210.52 (NEC 2020), ALL NONLOCKING-TYPE 15 AND 20 AMP RECEPTACLES SHALL BE TAMPER-RESISTANT RECEPTACLES.
15. MINIMUM WIRE SIZE FOR A 20 AMP BRANCH CIRCUIT SHALL BE AWG LISTED SIZE PER DISTANCE AS FOLLOWS. DISTANCE SHALL BE MEASURED FROM THE PANELBOARD CIRCUIT BREAKER TO THE FARTHEST OUTLET. ALL WIRE SIZES MAY BE REQUIRED TO BE LARGER DEPENDING ON CONDUIT AND CON
16. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF RECEPTACLES AND DATA JACKS.
17. CONSULT WITH A SECURITY COMPANY/EXPERT/INSURER OR OTHER APPROPRIATE PARTY AS TO THE NUMBER OF CAMERAS AND CAMERA PLACEMENT FOR IT'S INDIVIDUAL HOTEL AND LOCATION.



NOTES:

1. THIS DETAIL IS SCHEMATIC IN NATURE. PROVIDE ALL NECESSARY WIRING, CONDUIT, DEVICES, BOXES, ETC. FOR A COMPLETE AND OPERATIONAL LIGHTING SYSTEM.
2. TIMESWITCHES (TS) - PROVIDE 7-DAY, DIGITAL, 2 CHANNEL, TORK TIME SWITCH MODEL #DG200A WITH A MINIMUM 10 HOUR BATTERY BACK-UP, OR EQUAL.
3. CONTACTOR (C) - PROVIDE SQUARE-D MODEL 8903 ELECTRICALLY HELD CONTACTOR WITH POLE QUANTITY AS INDICATED, OR EQUAL.
4. PHOTOCELL (PC) - PROVIDE PER SPECIFICATIONS. MOUNT PHOTOCELL ON ROOF FACING NORTH.

1 EXTERIOR LIGHTING CONTROL

SCALE: NOT TO SCALE

SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING
A	LED FIXTURE & FIXTURE LETTER	CEILING
A	LED FIXTURE & FIXTURE LETTER	CEILING
A A	LED FIXTURE & FIXTURE LETTER	SURF./RECESSED
A	LED FIXTURE & FIXTURE LETTER	WALL BRACKET
⊗	EXIT FIXTURE - SHADING DENOTES FACE(S)	CEILING/WALL
GFCI	GFCI DUPLEX GROUNDED RECEPTACLE	1'-3" A.F.F.
	DUPLEX GROUNDED RECEPTACLE	1'-3" A.F.F.
	DOUBLE DUPLEX RECEPTACLE	1'-3" A.F.F.
WP/GFCI	EXTERIOR GFCI RECEPTACLE WEATHERPROOF	1'-3" A.F.F.
▼X	SPECIAL OUTLET. SEE SCHEDULE OR AS NOTED	
TV	CATV OUTLET	1'-3" A.F.F.
▼ ▼W	PHONE OUTLET (W=44" A.F.F.)	1'-3" A.F.F.
▼ ▼W	PHONE/DATA OUTLET (W=44" A.F.F.)	1'-3" A.F.F.
▽ ▽W	DATA OUTLET (W=44" A.F.F.)	1'-3" A.F.F.
$ $2 $3 $4 $P $K	SWITCHES (1, 2-POLE, 3-WAY, 4-WAY, PILOT, KEY)	4'-0" TO TOP
$OS1	OCC. SWITCH, WATTSTOPPER #PW-201-W	4'-0" TO TOP
$OS2	OCC. SWITCH, WATTSTOPPER #PW-100-W	4'-0" TO TOP
T	WATT STOPPER CS-50 LIGHT/TIME DELAY FAN SW.	4'-0" TO TOP
T	THERMOSTAT (BY MECH. CONTRACTOR)	4'-0" TO TOP
S1 M	MOTION SENSOR, REFER TO DRAWING NOTES	CEILING
S2 M *	MOTION SENSOR, WATTSTOPPER W-2000H	CEILING
S3 M **	MOTION SENSOR, WATTSTOPPER W-1000A	CEILING
J	JUNCTION BOX	
0/3/240	H.D. SAFETY SWITCH (SWITCH, POLE, SIZE)	6'-6" TO TOP
⊠ 0/3/240	STARTER (SWITCH, POLE, SIZE)	6'-6" TO TOP
PNLBD 'X'	BRANCH CIRCUIT PANEL & PANEL DESIGNATION	6'-6" TO TOP
	CONDUIT RUN 2#12 & 1#12 GROUND - 1/2"C.	CEILING/WALL
	CONDUIT RUN 2 CIRCUIT,3#12&1#12 GROUND-1/2"C.	EARTH/FLOOR
	PARTIAL HOMERUN (MULTIPLE LOAD LOCATIONS)	
#10 30/3	SEE GENERAL NOTE #7	
	CONDUIT RUN W/2 HOTS, 1 NEUTRAL, & 1 GROUND	EARTH/FLOOR
1	FEEDER INDENTIFICATION, SEE SCHEDULE	
CT	SEE GENERAL NOTE #8	
WP	WEATHERPROOF	
a,b,c	INDICATES SWITCHING SCHEME	

* - PROVIDE WITH POWERPACK AND FACTORY SETUP AT SITE. WIRE TO CONTROL LIGHTS IN AREA.
ARCHITECTURAL MOUNTING HEIGHTS SUPERSEDE ELECTRICAL MOUNTING HEIGHTS.

SPECIAL OUTLET SCHEDULE

SYMBOL	DESCRIPTION
▼A	THRU WALL OUTLET, 15A, 2 POLE GROUNDING RECEPTACLE. FLUSH WALL MOUNTED NEAR LOWER RIGHT CORNER OF PTAC UNIT. VERIFY CONFIG. W/UNIT. VERIFY MOUNTING HEIGHT. MOUNT RECEPTACLE HORIZONTAL SO THAT CORD LEADS BACK TO PTAC. SEE ARCHITECTURAL ELEVATIONS. PROVIDE INSTALLATION OF ASSOCIATED WIRELESS MOTION SENSOR/DOOR SWITCH WITH EACH UNIT IN RESIDENT ROOMS. VERIFY LOCATION WITH OWNER. VERIFY ALL INSTALLATION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. SUCCESSFUL ELECTRICAL CONTRACTOR SHALL VERIFY WITH MECHANICAL PLANS AND OWNER PRIOR TO ROUGH-IN AND BID ACTUAL SIZE OF BREAKER, WIRE, CONDUIT, AND RECEPTACLE FOR EACH UNIT.
▼B	RANGE CONNECTION. NEMA 14-20, 20A, 208V, 1PH PLUS GROUND. FLUSH WALL MOUNTED J-BOX FOR RANGE POWER CONNECTION. VERIFY MOUNTING HEIGHT. SUCCESSFUL ELECTRICAL CONTRACTOR SHALL VERIFY WITH OWNER PRIOR TO ROUGH-IN AND PROVIDE ACTUAL SIZE OF BREAKER, WIRE, AND CONDUIT REQUIRED FOR EACH UNIT. SECURE RANGE CORD TO BACK WALL OF CABINET CLEAR OF SHELF IN CABINET BASE.
▼*C	DRYER OUTLET. NEMA 14-30R, 30A, 3 POLE, 4 WIRE LEVITON #278. FLUSH MOUNTED OUTLET, PROVIDE WITH LEVITON #4944 2-GANG COVERPLATE. MOUNT AT 48" A.F.F. ROUTE 3#10 & 1#10 FROM OUTLET TO PANEL. PROVIDE DRYER WITH 4 WIRE CORD AND PLUG AS REQUIRED.
▼D	CCTV CAMERA LOCATION. PROVIDE AND INSTALL FLUSH MOUNTED SINGLE GANG J-BOX AT LOCATION SHOWN. ROUTE (1) 1" CONDUIT FROM BOX TO NEAREST CORRIDOR CEILING CAVITY. PROVIDE CAT 5e CABLE, YELLOW, 4-PAIR FROM BOX TO SECOND FLOOR UTILITY ROOM CAMERA CONNECTION LOCATION. PROVIDE 18" CABLE STUB OUT AT DOUBLE GANG BOX AND 48" CABLE STUB OUT AT SECOND FLOOR UTILITY ROOM CONNECTION LOCATION. VERIFT ALL REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. CONFIRM THAT ANY LIGHTING FIXTURES FO NOT BLOCK VIEW OF CAMERA.
▼F	WIRELESS ACCESS POINT. PROVIDE AND INSTALL FLUSH MOUNTED J-BOX AT LOCATION SHOWN. ROUTE (1) 1" CONDUIT FROM BOX TO NEAREST CORRIDOR CEILING CAVITY. PROVIDE CAT 5e CABLE, BLUE, 4 PAIR FROM BOX TO ROUTER LOCATION. VERIFY ALL REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. SPECIFIC LOCATIONS SHOULD BE VERIFIED WITH THE OWNER'S TELECOM VENDOR.
▼G	THRU WALL OUTLET, 20A, 2 POLE GROUNDING RECEPTACLE. FLUSH WALL MOUNTED NEAR LOWER RIGHT CORNER OF PTAC UNIT. VERIFY CONFIG. W/UNIT. VERIFY MOUNTING HEIGHT. MOUNT RECEPTACLE HORIZONTAL SO THAT CORD LEADS BACK TO PTAC. SEE ARCHITECTURAL ELEVATIONS. PROVIDE INSTALLATION OF ASSOCIATED WIRELESS MOTION SENSOR/DOOR SWITCH WITH EACH UNIT IN RESIDENT ROOMS. VERIFY LOCATION WITH OWNER. VERIFY ALL INSTALLATION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. SUCCESSFUL ELECTRICAL CONTRACTOR SHALL VERIFY WITH MECHANICAL PLANS AND OWNER PRIOR TO ROUGH-IN AND BID ACTUAL SIZE OF BREAKER, WIRE, CONDUIT, AND RECEPTACLE FOR EACH UNIT.
▼H	CARD READER. COORDINATE WITH EQUIPMENT SUPPLIER FOR ALL REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS. CIRCUIT AS SHOWN ON PLANS.

* - VERIFY WIRING AND RECEPTACLE FOR DRYER CONNECTIONS WITH OWNER PRIOR TO ROUGH-IN. DRYER CONNECTION MUST COMPLY WITH N.E.C. ARTICLE #250.140.

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Sheet Title

ELECTRICAL PANELS AND SCHEDULES

Sheet No.

E-2

1 FIRST FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

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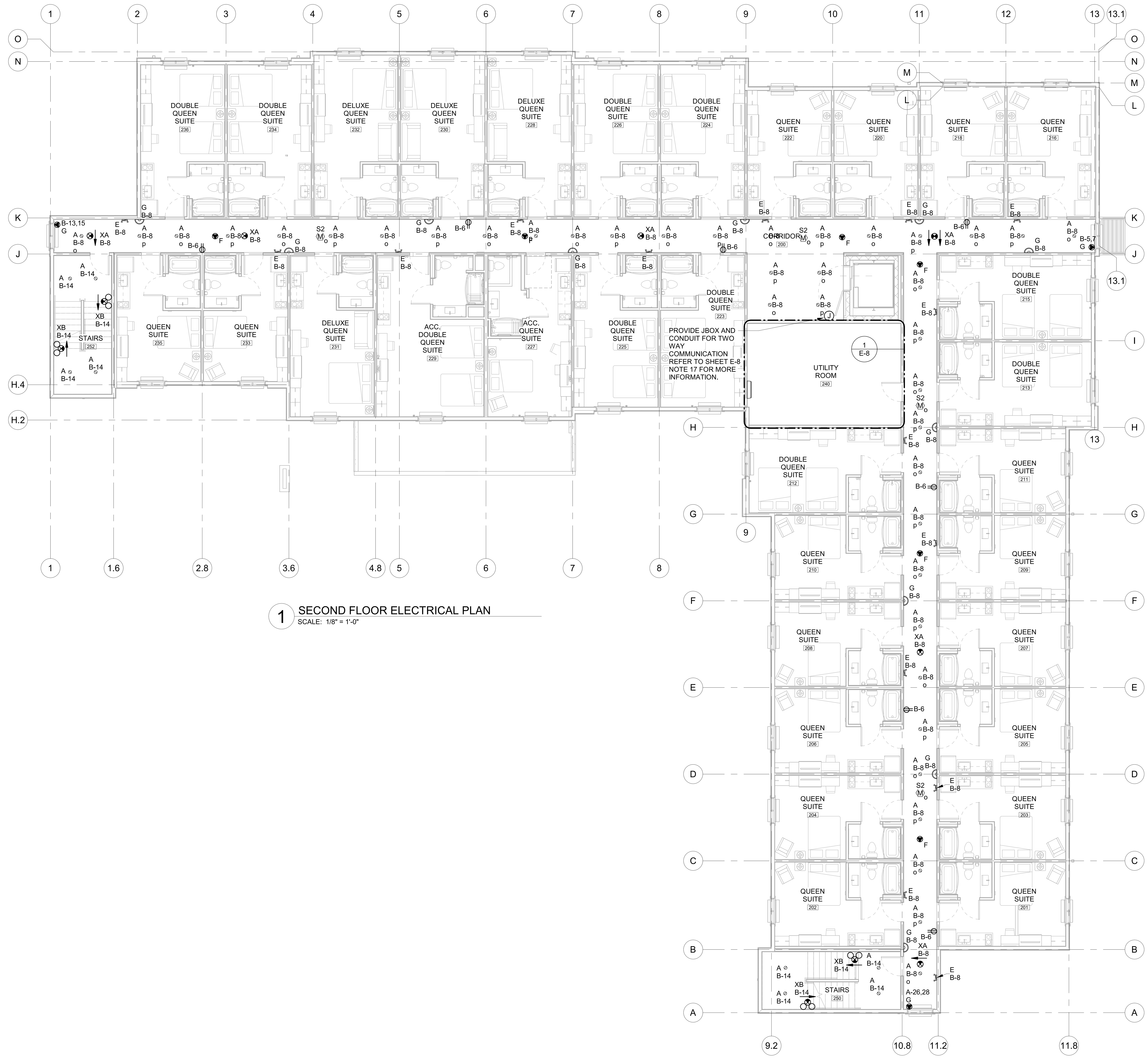
Sheet Title

ELECTRICAL PLANS - FIRST FLOOR

Sheet No.

E-3



1 SECOND FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

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Sheet Title

ELECTRICAL PLANS - SECOND FLOOR

Sheet No.

E-4

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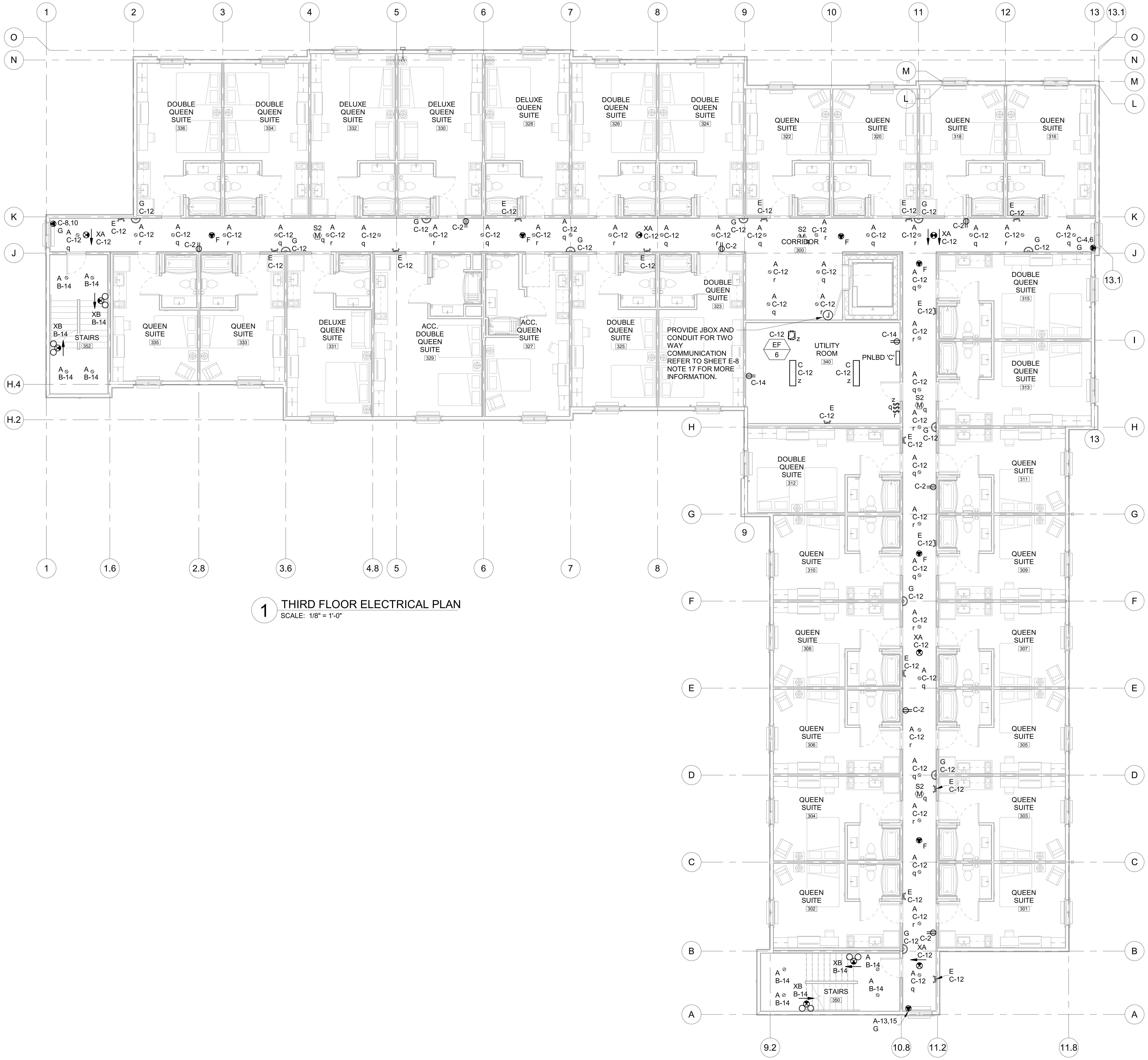

1 THIRD FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

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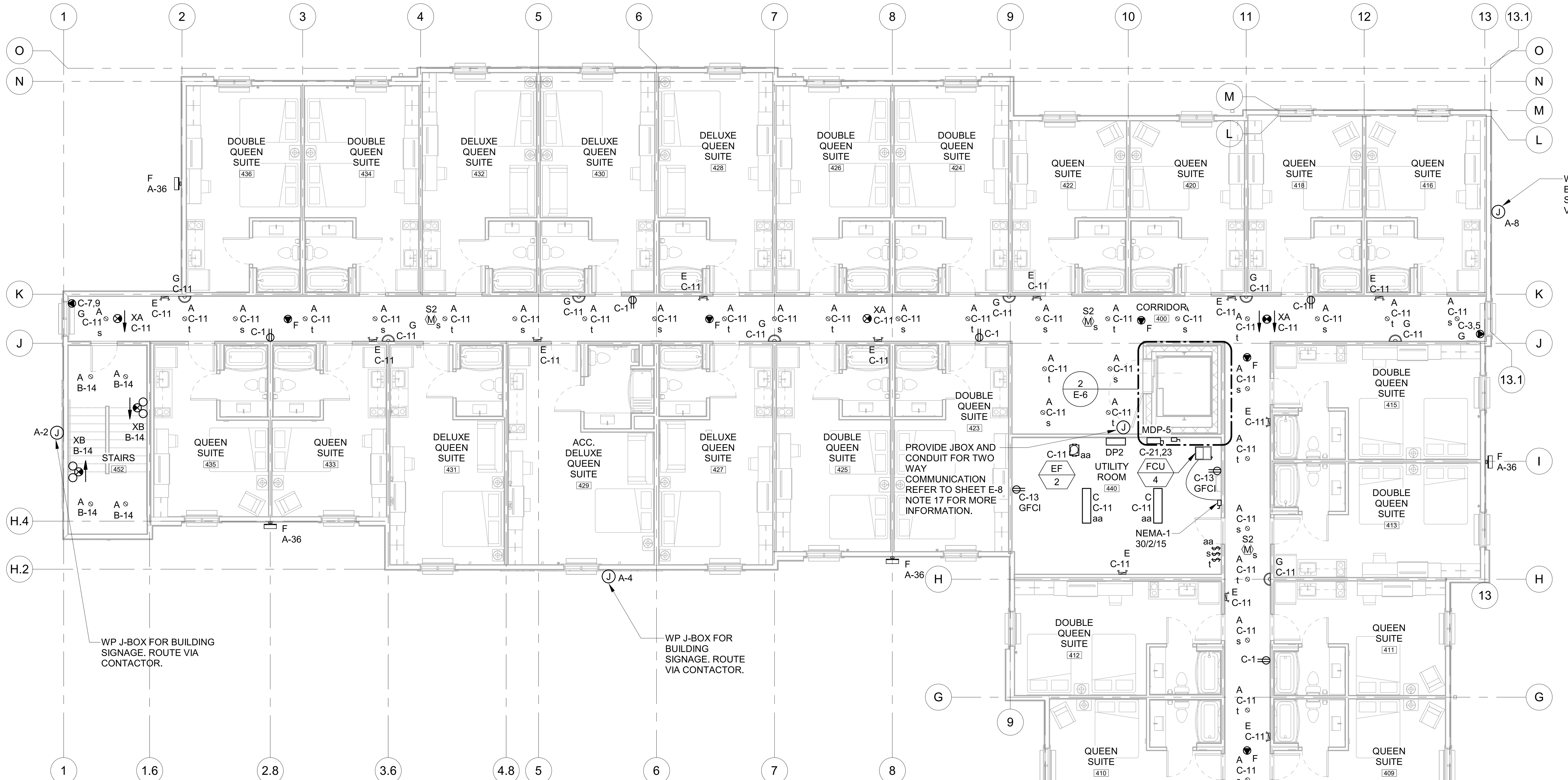
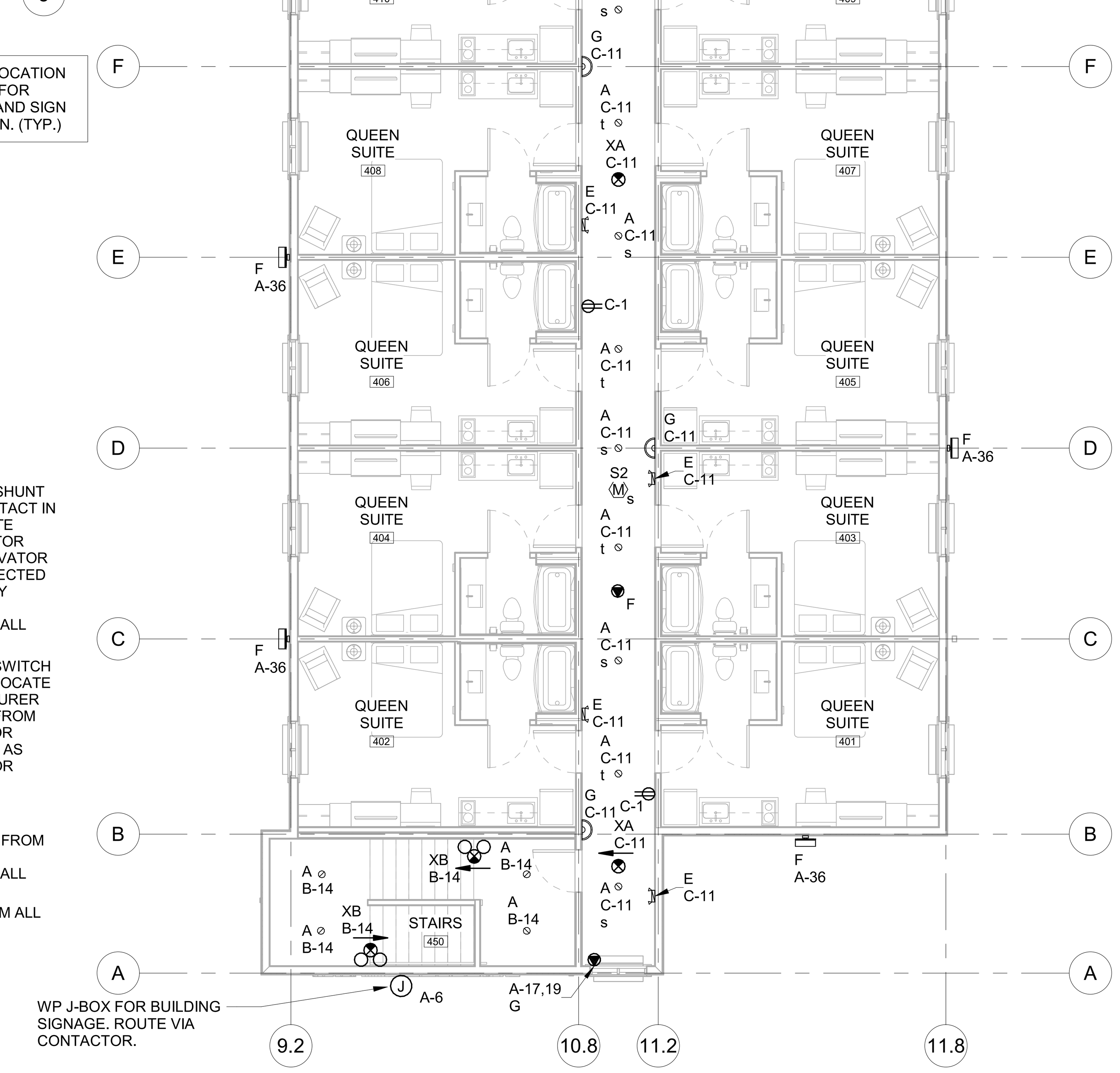
Sheet Title

ELECTRICAL PLANS - THIRD FLOOR

Sheet No.

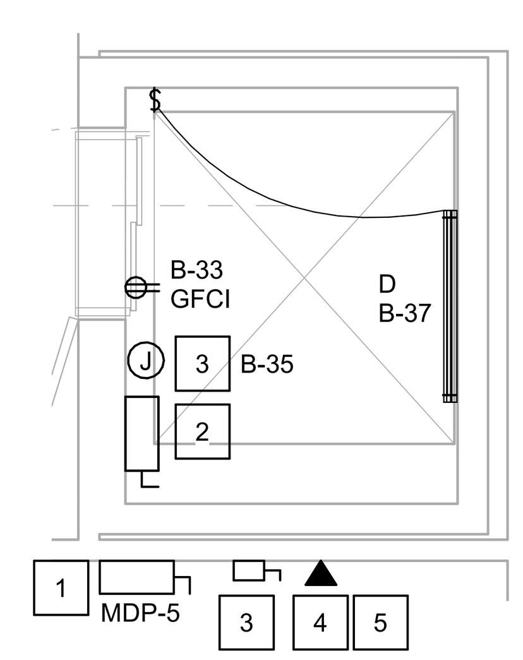
E-5

1 FOURTH FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

NOTE: COORDINATE FINAL LOCATION AND QUANTITY OF J-BOXES FOR SIGNAGE WITH ARCHITECT AND SIGN VENDOR PRIOR TO ROUGH-IN. (TYP.)

COORDINATE WITH CONSTRUCTION MANAGER FOR EXACT ELEVATOR INFORMATION. ELEVATOR SHOWN IN THESE DRAWINGS MAY DIFFER FROM ACTUAL ELEVATOR PURCHASED. COORDINATE BREAKER SIZE, FEEDER SIZE, LOCAL DISCONNECT, INSTALLATION REQUIREMENTS AND ANY ADDITIONAL REQUIREMENTS WITH ELEVATOR MANUFACTURER PRIOR TO WORK BEING STARTED.



2 ELEVATOR ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

ELEVATOR KEYNOTES (1 , 2 , X)

1. PRIMARY ELEVATOR DISCONNECT. PROVIDE (1) 60A, 3P, 208V BUSSMANN POWER MODULE WITH SHUNT TRIP MECHANISM, 60A TIME-DELAY (CLASS J OR BUSSMANN LPJ) FUSES, AND AUXILIARY 24V CONTACT IN A NEMA-1 ENCLOSURE FOR ELEVATOR EQUIPMENT PER MANUFACTURER REQUIREMENTS. LOCATE DISCONNECT IN FOURTH FLOOR UTILITY ROOM 440, COORDINATE EXACT LOCATION WITH ELEVATOR MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE CONDUIT AND WIRE, THE SAME SIZE AS THE ELEVATOR FEEDER, FROM PRIMARY ELEVATOR DISCONNECT TO AUXILIARY ELEVATOR DISCONNECT AS DIRECTED BY THE ELEVATOR MANUFACTURER. PROVIDE 24V WIRING FROM AUXILIARY CONTACT IN PRIMARY ELEVATOR DISCONNECT TO ELEVATOR CONTROL UNIT AS DIRECTED BY THE ELEVATOR MANUFACTURER. COORDINATE ALL REQUIREMENTS WITH ELEVATOR MANUFACTURER. PROVIDE ALL WIRING AND ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM.
2. AUILIARY ELEVATOR DISCONNECT SWITCH. PROVIDE (1) 60A, 3P, 208V NON-FUSED DISCONNECT SWITCH WITH AUXILIARY 24V CONTACT IN A NEMA-1 ENCLOSURE PER MANUFACTURER REQUIREMENTS. LOCATE DISCONNECT AT TOP OF HOISTWAY, COORDINATE EXACT LOCATION WITH ELEVATOR MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE CONDUIT AND WIRE, THE SAME SIZE AS THE ELEVATOR FEEDER, FROM AUXILIARY ELEVATOR DISCONNECT TO ELEVATOR CONTROL UNIT AS DIRECTED BY THE ELEVATOR MANUFACTURER. PROVIDE 24V WIRING FROM AUXILIARY CONTACT TO ELEVATOR CONTROL UNIT AS DIRECTED BY THE ELEVATOR MANUFACTURER. COORDINATE ALL REQUIREMENTS WITH ELEVATOR MANUFACTURER. PROVIDE ALL WIRING AND ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM.
3 ELEVATOR CAB DISCONNECT. PROVIDE (1) 20A, 1P, 120V DISCONNECT FUSED AT 15A IN A NEMA-1 ENCLOSURE FOR ELEVATOR CAB POWER. PROVIDE CONDUIT AND WIRE, SIZED FOR 20A AT 120V, FROM ELEVATOR CAB DISCONNECT TO ELEVATOR CONTROL UNIT AS DIRECTED BY THE ELEVATOR MANUFACTURER. COORDINATE ALL REQUIREMENTS WITH ELEVATOR MANUFACTURER. PROVIDE ALL WIRING AND ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM.
4. PROVIDE ANALOG TELEPHONE LINE TO ELEVATOR CONTROL UNIT FOR CAB TELEPHONE. CONFIRM ALL REQUIREMENTS WITH ELEVATOR MANUFACTURER.
5 PROVIDE SECURITY CAMERA CONNECTION FOR ELEVATOR SECURITY CAMERA. CONFIRM ALL REQUIREMENTS WITH ELEVATOR MANUFACTURER PRIOR TO ROUGH-IN.

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Sheet Title
ELECTRICAL PLANS - FOURTH FLOOR
Sheet No.
E-6

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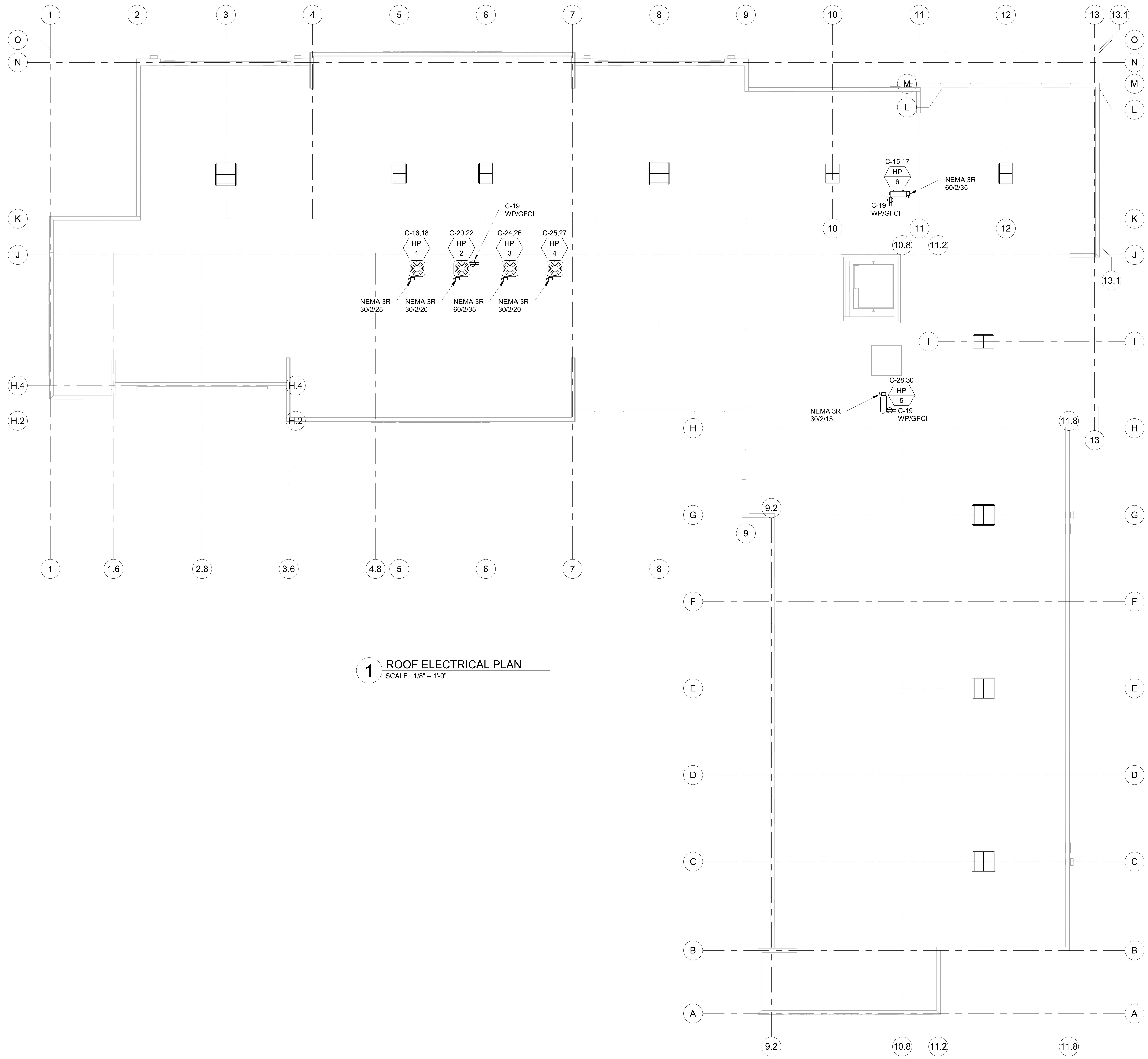

1 ROOF ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

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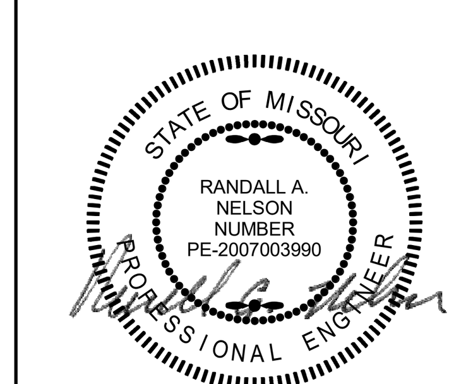

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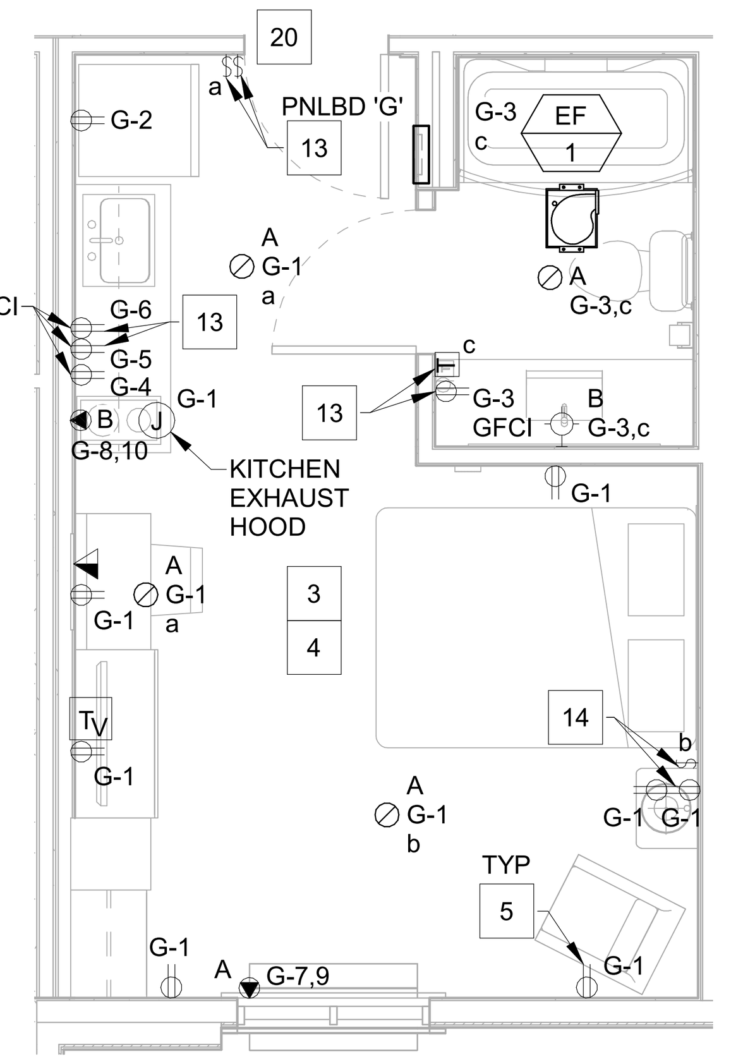
Sheet Title

ELECTRICAL PLANS - ROOF

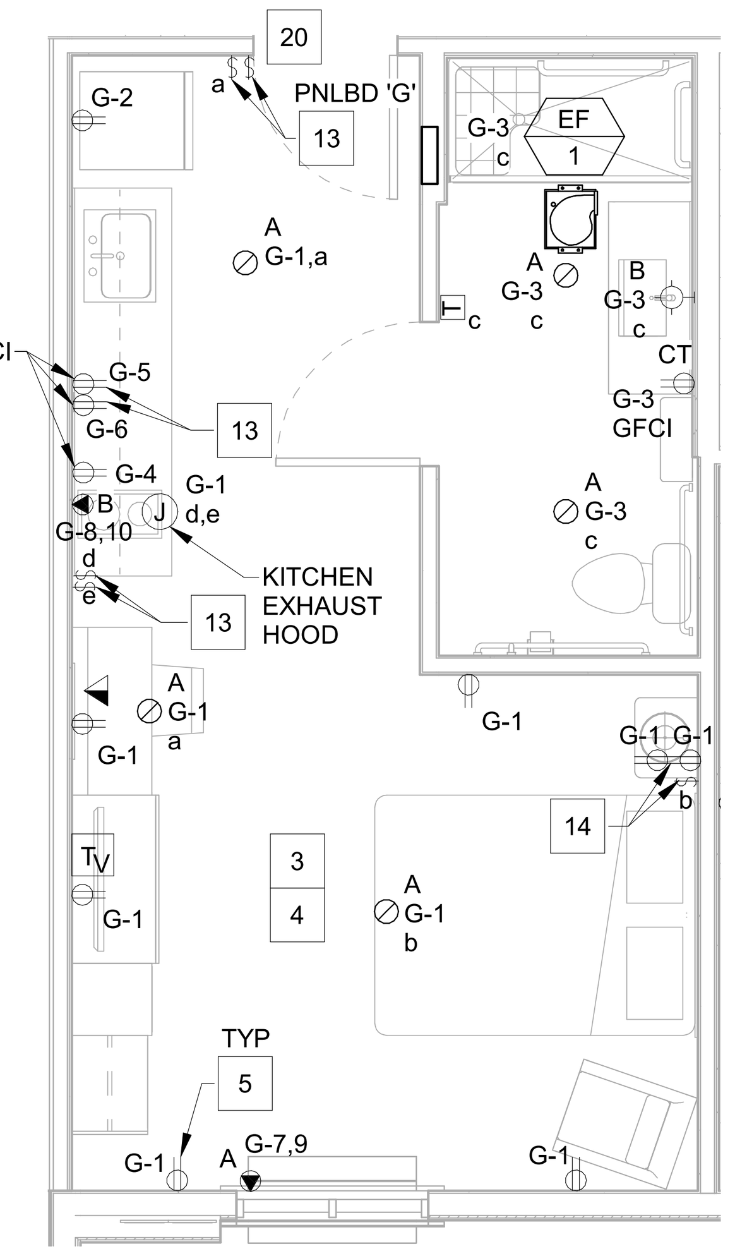
Sheet No.

E-7



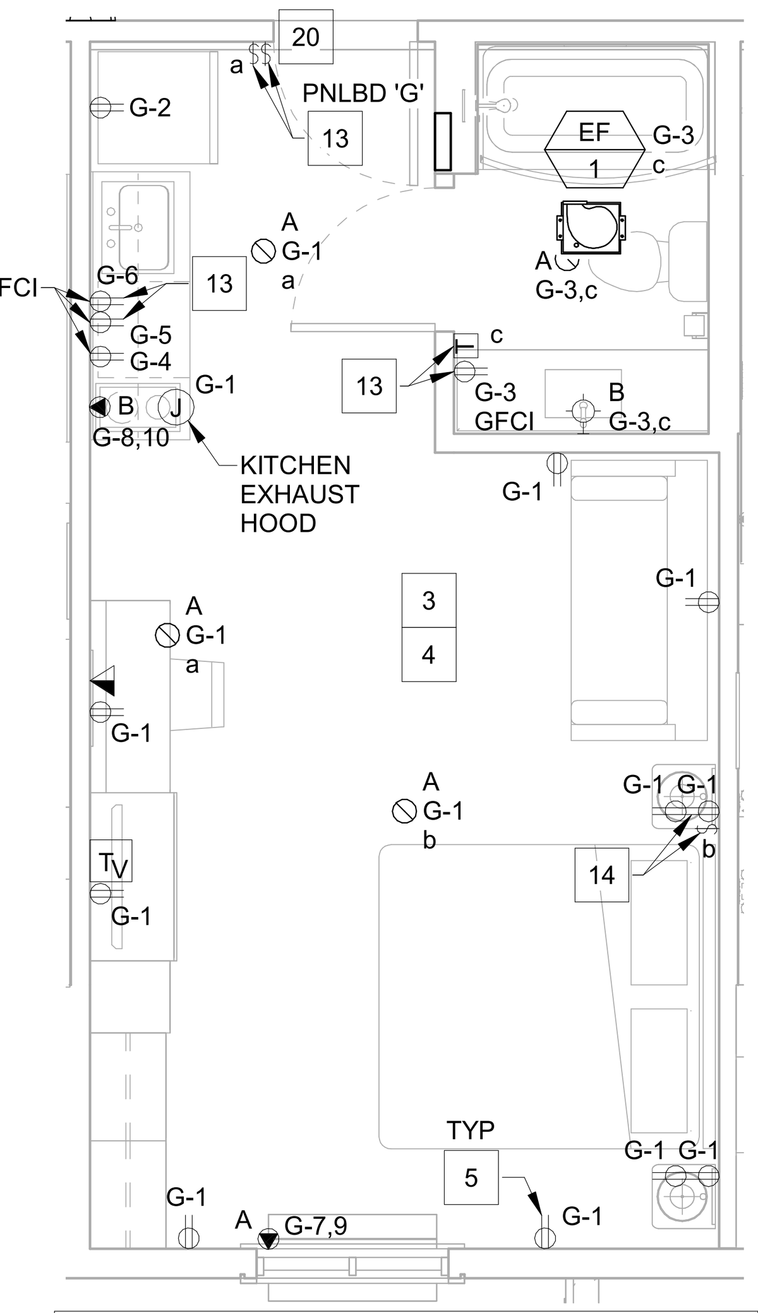
REFER TO ARCHITECTURAL ELEVATIONS FOR ALL LOCATIONS AND MOUNTING HEIGHTS. VERIFY ALL REQUIREMENTS. DO NOT DIMENSION FROM THESE PLANS, COORDINATE ALL CEILING LIGHT FIXTURE LOCATIONS WITH OWNER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN, SWITCH LIGHTS ONLY.

13 QUEEN SUITE
SCALE: 1/4" = 1'-0"



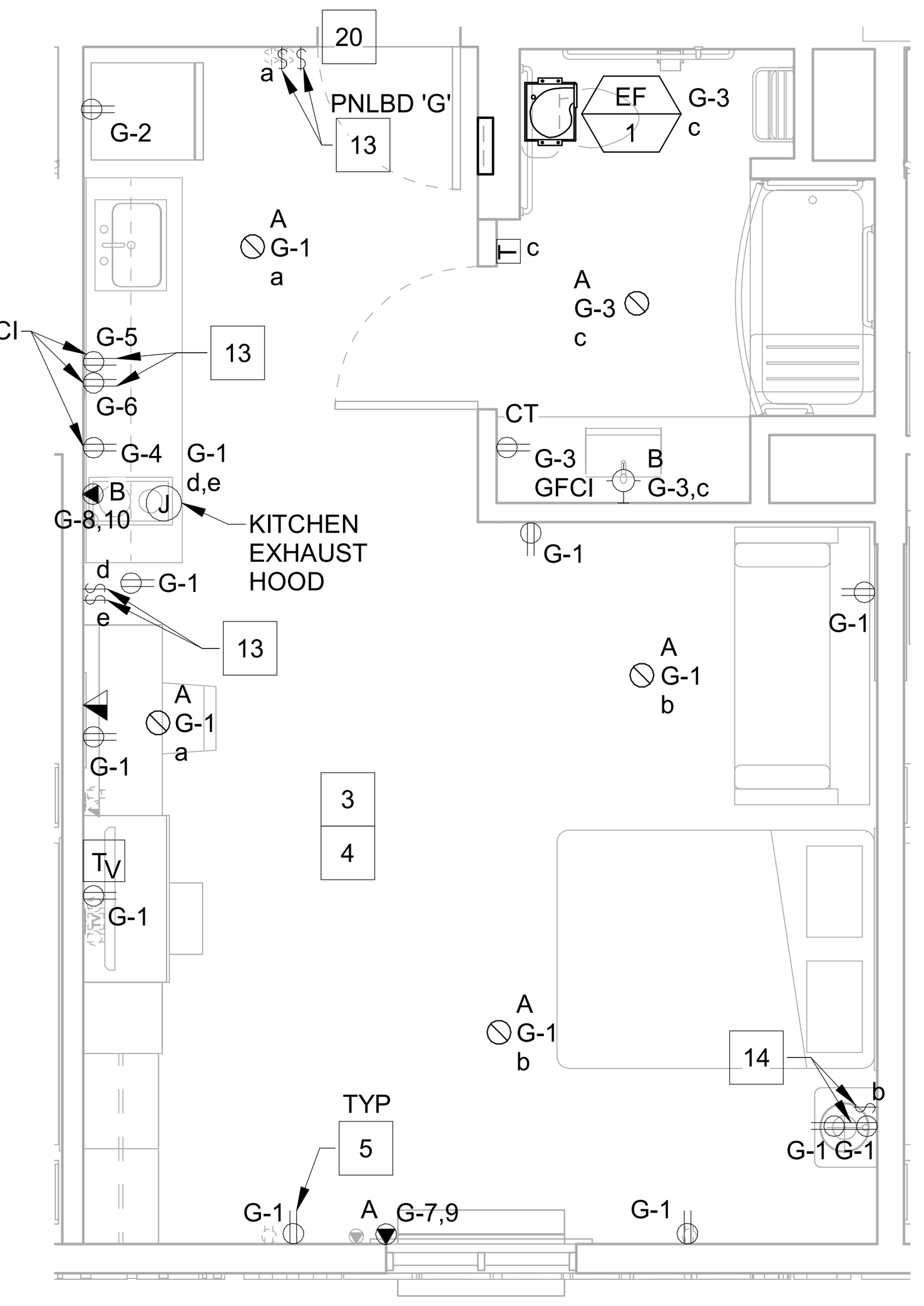
REFER TO ARCHITECTURAL ELEVATIONS FOR ALL LOCATIONS AND MOUNTING HEIGHTS. VERIFY ALL REQUIREMENTS. DO NOT DIMENSION FROM THESE PLANS, COORDINATE ALL CEILING LIGHT FIXTURE LOCATIONS WITH OWNER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN, SWITCH LIGHTS ONLY.

12 ACC. QUEEN SUITE
SCALE: 1/4" = 1'-0"



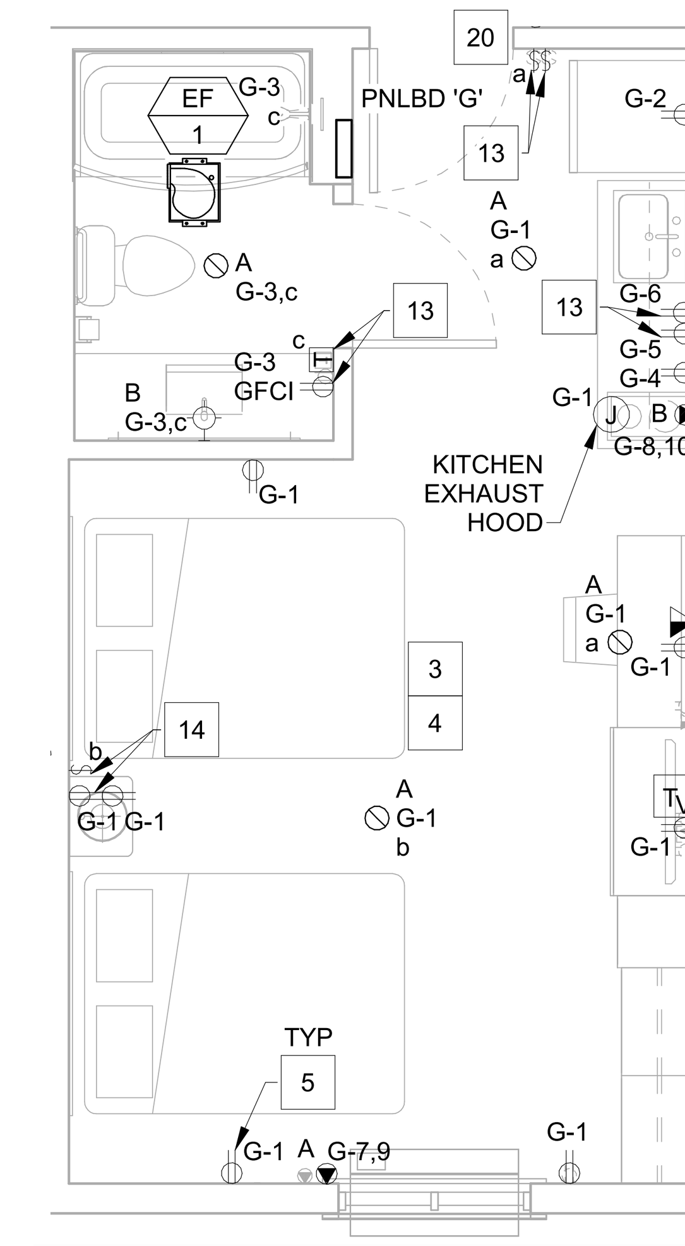
REFER TO ARCHITECTURAL ELEVATIONS FOR ALL LOCATIONS AND MOUNTING HEIGHTS. VERIFY ALL REQUIREMENTS. DO NOT DIMENSION FROM THESE PLANS, COORDINATE ALL CEILING LIGHT FIXTURE LOCATIONS WITH OWNER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN, SWITCH LIGHTS ONLY.

11 DELUXE KING SUITE
SCALE: 1/4" = 1'-0"



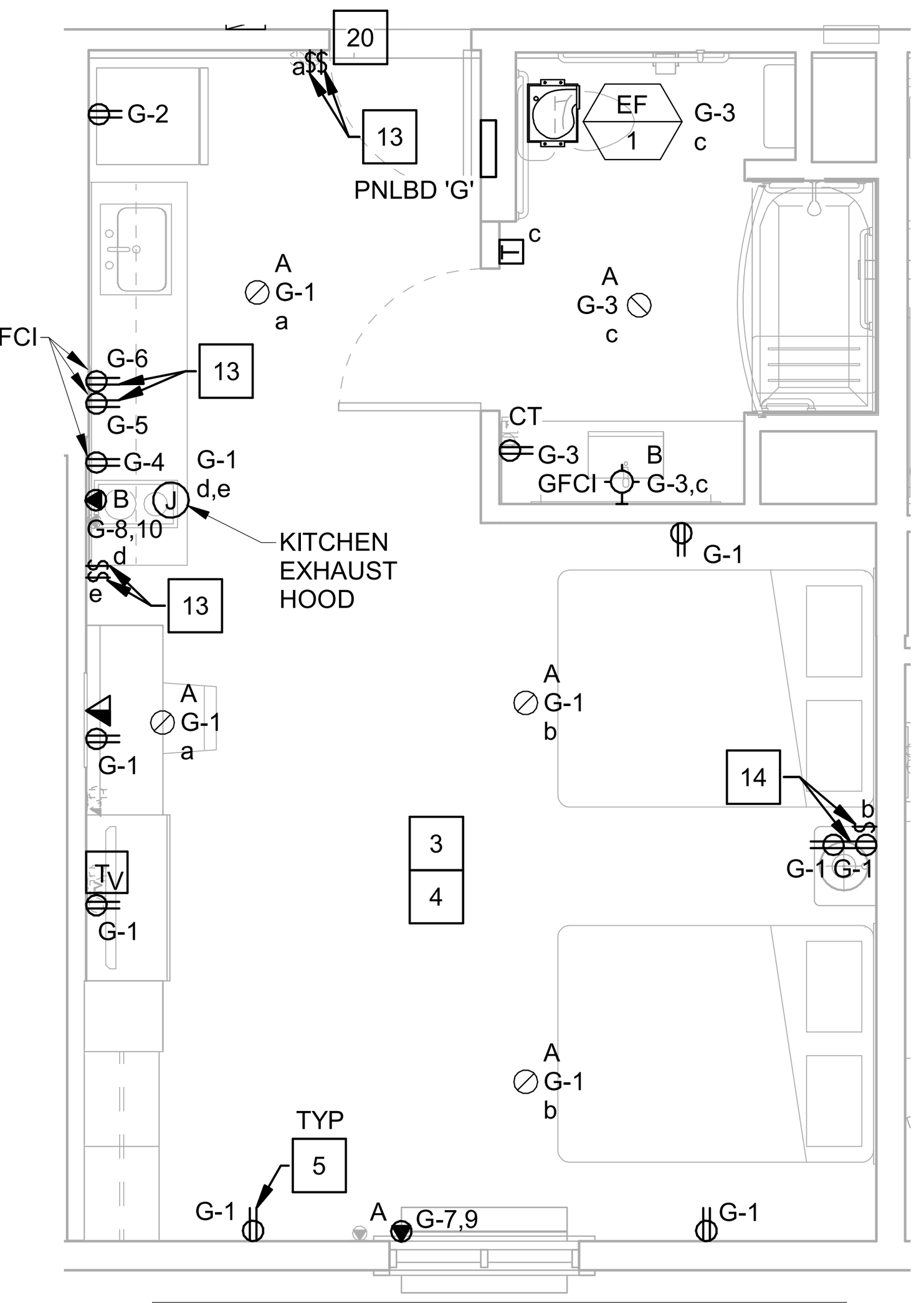
REFER TO ARCHITECTURAL ELEVATIONS FOR ALL LOCATIONS AND MOUNTING HEIGHTS. VERIFY ALL REQUIREMENTS. DO NOT DIMENSION FROM THESE PLANS, COORDINATE ALL CEILING LIGHT FIXTURE LOCATIONS WITH OWNER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN, SWITCH LIGHTS ONLY.

10 ACC. DELUXE KING SUITE
SCALE: 1/4" = 1'-0"



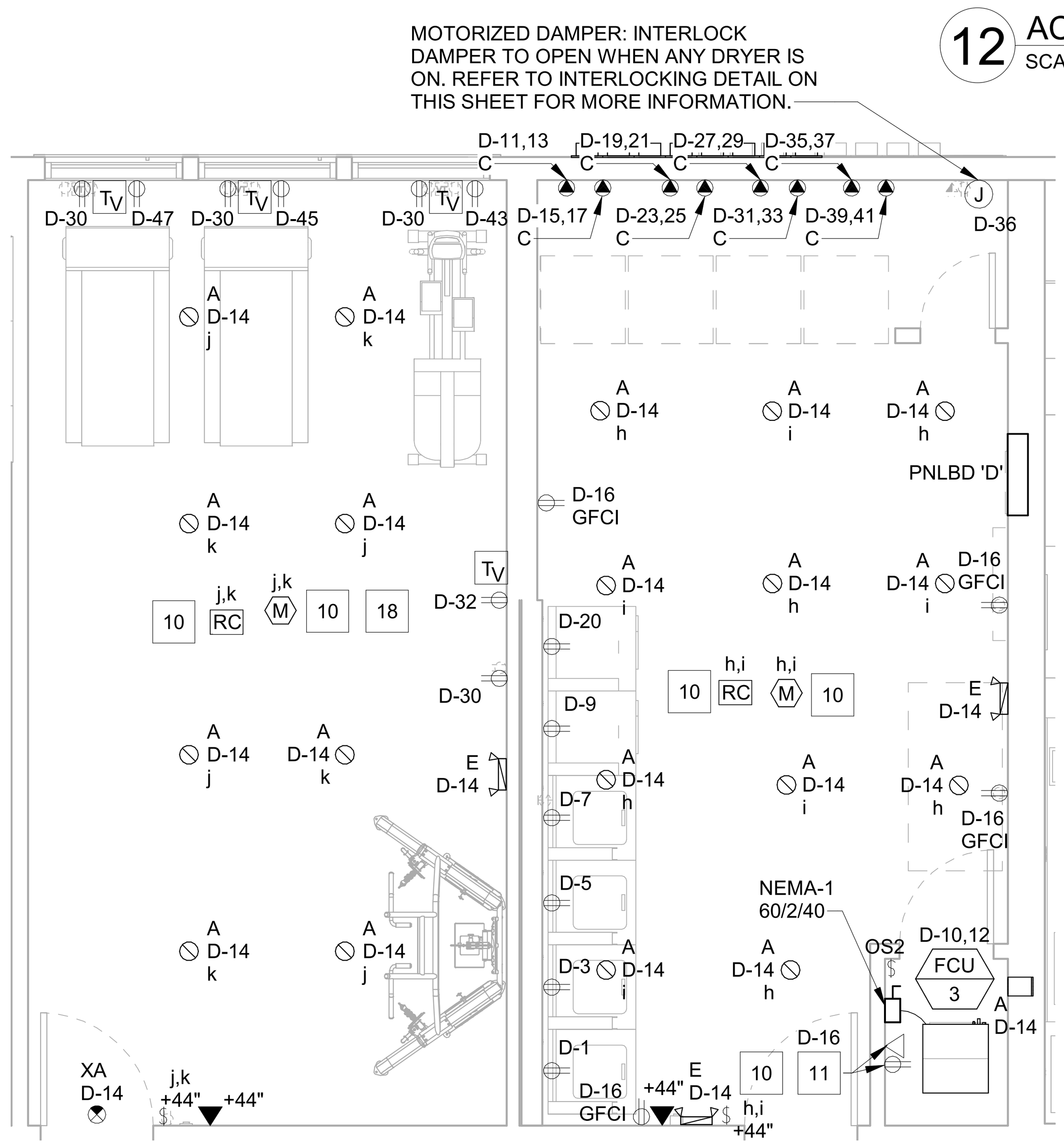
REFER TO ARCHITECTURAL ELEVATIONS FOR ALL LOCATIONS AND MOUNTING HEIGHTS. VERIFY ALL REQUIREMENTS. DO NOT DIMENSION FROM THESE PLANS, COORDINATE ALL CEILING LIGHT FIXTURE LOCATIONS WITH OWNER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN, SWITCH LIGHTS ONLY.

9 DOUBLE QUEEN SUITE
SCALE: 1/4" = 1'-0"

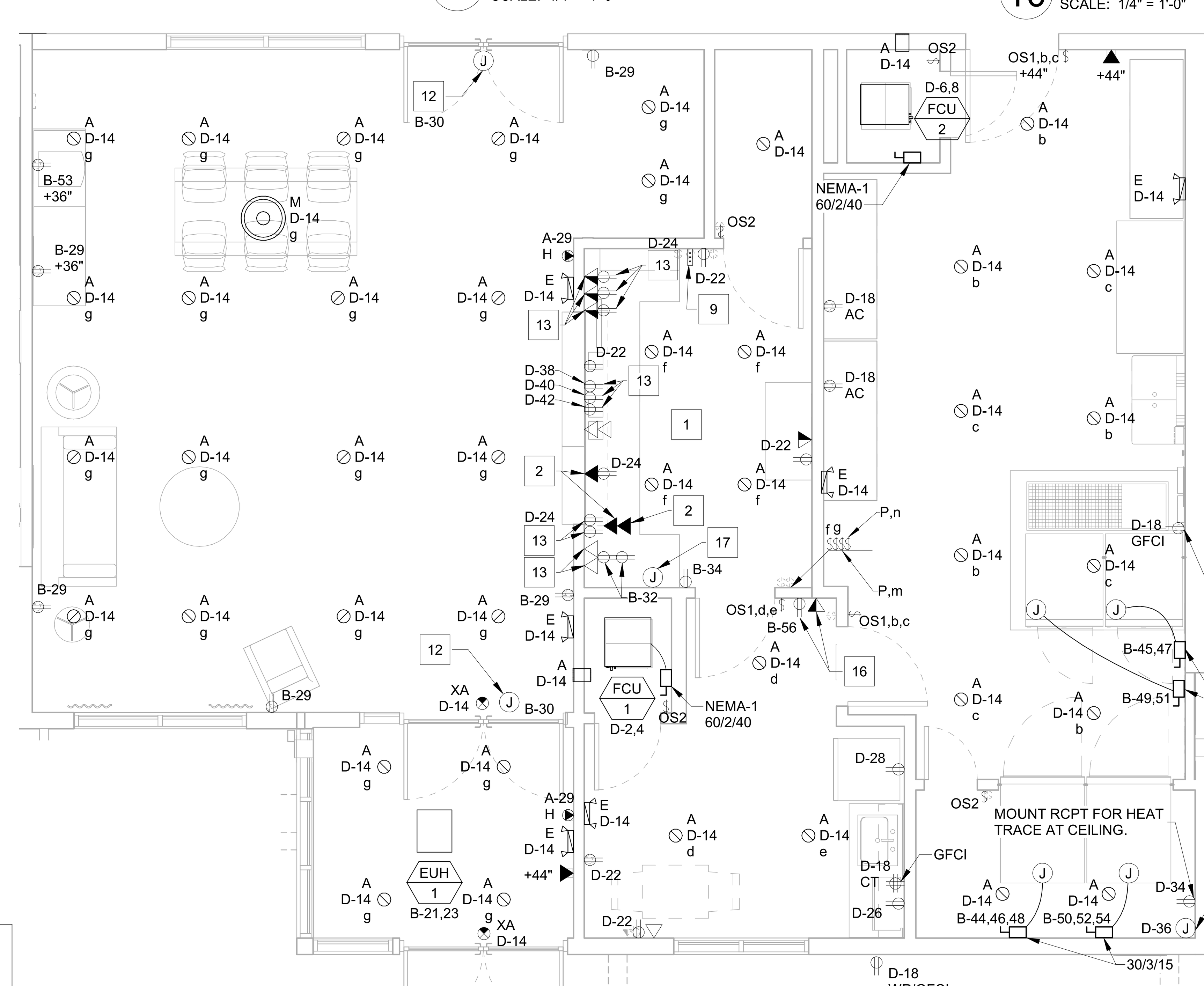


REFER TO ARCHITECTURAL ELEVATIONS FOR ALL LOCATIONS AND MOUNTING HEIGHTS. VERIFY ALL REQUIREMENTS. DO NOT DIMENSION FROM THESE PLANS, COORDINATE ALL CEILING LIGHT FIXTURE LOCATIONS WITH OWNER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN, SWITCH LIGHTS ONLY.

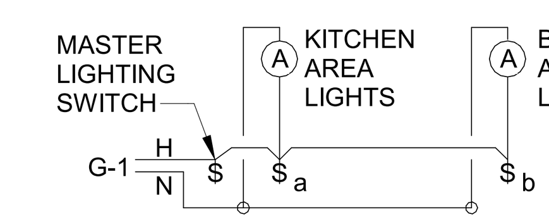
8 ACC. DOUBLE QUEEN SUITE
SCALE: 1/4" = 1'-0"



7 ENLARGED LAUNDRY
SCALE: 1/4" = 1'-0"



6 ENLARGED LOBBY
SCALE: 1/4" = 1'-0"

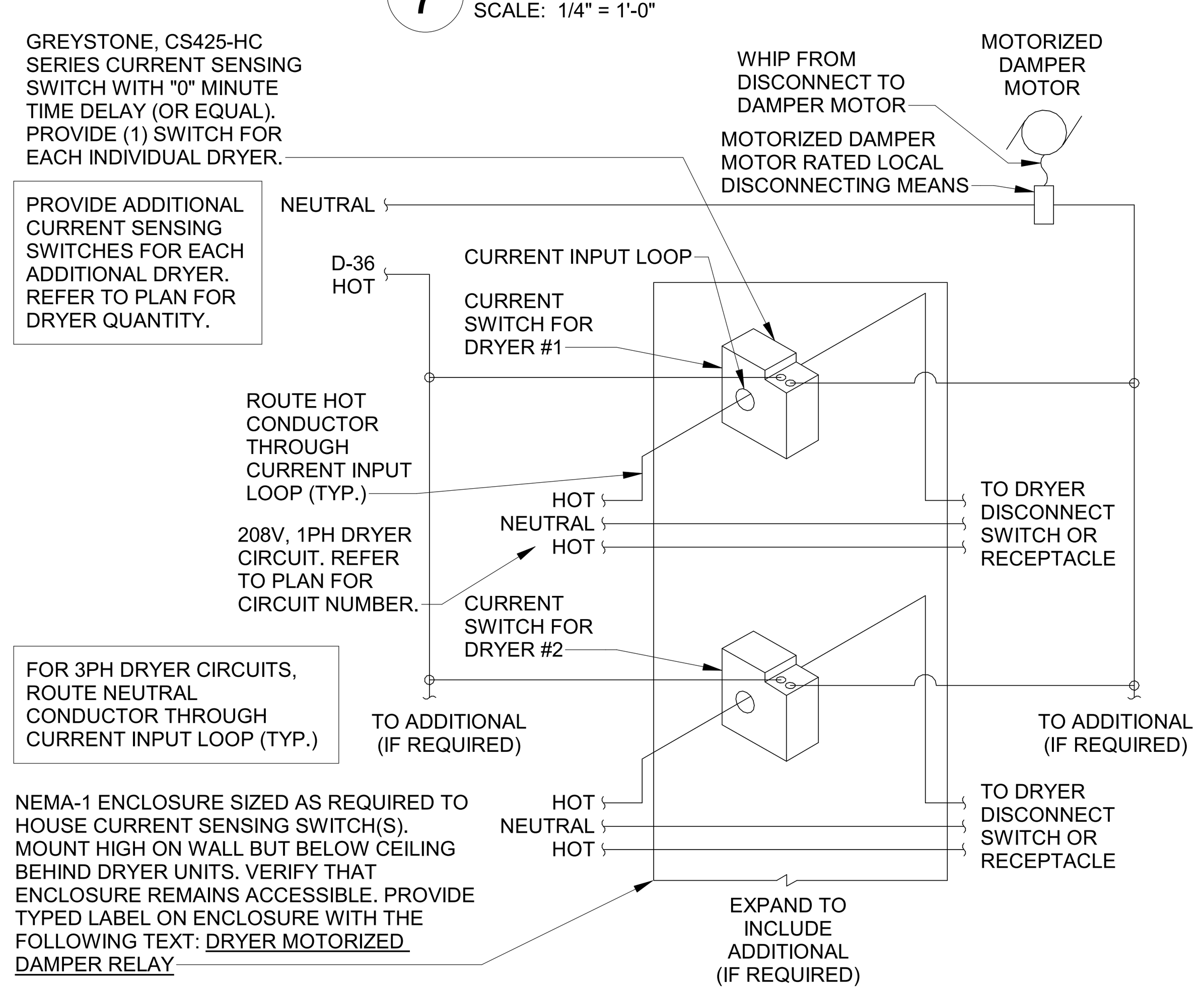


NOTE: MASTER LIGHTING SWITCH SHALL DISCONNECT POWER TO ALL ROOM LIGHTING. LABEL SWITCH "MASTER LIGHTING SWITCH". LABEL TO BE PER SPECIFICATION SECTION 260553.

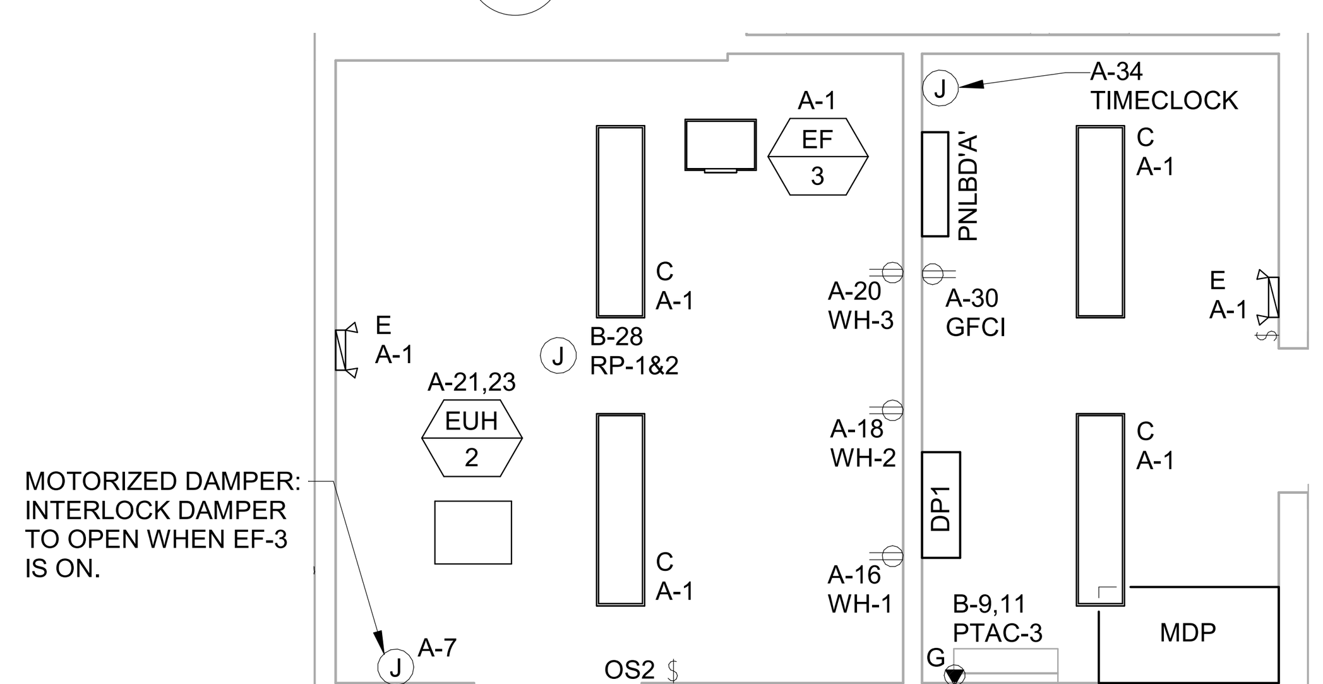
5 MASTER LIGHTING SWITCH WIRING DETAIL
SCALE: NOT TO SCALE

ENLARGED PLAN KEYNOTES (1 , 2 , x)

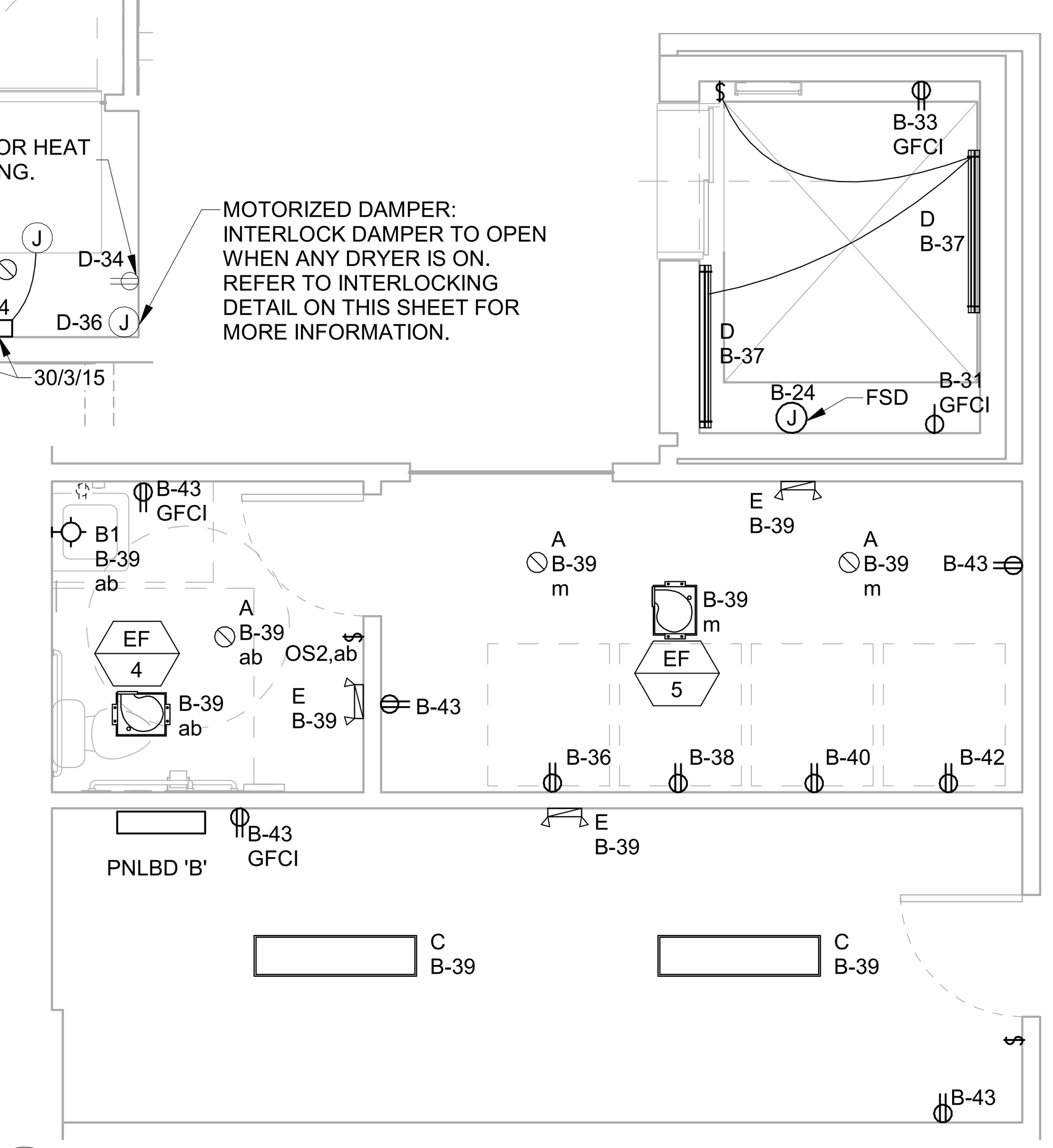
1. VERIFY EXACT LOCATION OF ALL REGISTRATION DEVICES PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
2. ONE EMPTY JUNCTION BOX FOR HDMI JACK. COORDINATE WITH OWNER FOR CONDUIT ROUTING EMPTY 1" CONDUIT AND ALL REQUIREMENTS. VERIFY EXACT MOUNTING HEIGHT AND LOCATION ON ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. HDMI PORTS FROM MONITORS NEED TO CONNECT TO TOWERS HDMI PORTS.
3. SUITE ANNUNCIATOR REQUIRED IN HEARING IMPAIRED SUITES ONLY. HARD WIRED SYSTEM FOR HEARING IMPAIRED SUITES (DOOR BELL SYSTEM) SYSTEM AVAILABLE AT THE FRONT DESK. COORDINATE WITH ARCH ON HARD-WIRED HIR DEVICES AND ROOMS.
4. CONTRACTOR SHALL CONTACT LOCAL TELEPHONE PROVIDER TO OBTAIN REQUIREMENTS FOR HEARING IMPAIRED ROOMS. CONTRACTOR SHALL THEN INSTALL ALL REQUIRED EQUIPMENT.
5. ALL GUESTROOM 120V RECEPTACLES SHALL BE TAMPER-RESISTANT SPECIFICATION GRADE RECEPTACLES AS REQUIRED BY N.E.C.
6. PROVIDE 2-4" CONDUIT WITH PULLWIRE FOR CABLE TV AND TELEPHONE. ROUTE UNDERGROUND AND STUB OUT 5'-0" FROM BUILDING. COORDINATE WITH CIVIL FOR ROUTING TO PROPERTY LINE. CAP AND MARK FOR OWNER USE.
7. PROVIDE 1-1 1/2" AND 1-2" CONDUIT FOR CAMERA AND CATV CABLING. ROUTE FROM OPENING AND STUB INTO FIRST FLOOR CORRIDOR CEILING CAVITY.
8. PROVIDE 1-3" CONDUIT WITH PULLWIRE FOR FUTURE USE. ROUTE UNDERGROUND AND STUB OUT 5'-0" FROM BUILDING. CAP AND MARK FOR OWNER USE.
9. PUSHBUTTON FOR FRONT ENTRY DOORS.
10. PROVIDE WATTSTOPPER DUAL RELAY ROOM CONTROLLER LMRC-102, OCCUPANCY SENSOR LMDC-100 AND LOW VOLTAGE SWITCH LMSW-102-W FOR CONTROL OF LIGHTING AS INDICATED BY LOWER CASE LETTERING. PROGRAM RELAY ONE IN ROOM CONTROLLER TO AUTO-ON/OFF BASED ON ROOM OCCUPANCY AND RELAY TWO IN ROOM CONTROLLER FOR MANUAL ON BY LOW VOLTAGE SWITCH AND AUTO OFF BY ROOM OCCUPANCY PER ASHRAE 90.1 (2013) CODE REQUIREMENTS. INSTALL ALL EQUIPMENT PER MANUFACTURER REQUIREMENTS AND PROVIDE ALL LOW VOLTAGE WIRING FOR A COMPLETE AND OPERATIONAL SYSTEM.
11. PROVIDE (1) DATA PORT AND (1) GFCI RECEPTACLE. MOUNT ON WALL, REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS.
12. PROVIDE CIRCUIT AS SHOWN ON PLAN FOR DOOR MAG LOCK SYSTEM. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER AND PROVIDE ALL LOW VOLTAGE WIRING AND ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO KEYNOTE 9 FOR OFFICE REQUIREMENTS.
13. DEVICES TO BE GANGED TOGETHER. MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL PLANS.
14. LIGHT SWITCH AND ONE RECEPTACLE TO BE GANGED TOGETHER. MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL PLANS.
15. BDA SYSTEM RISER JUNCTION BOX. JUNCTION BOX SHALL BE 12"X12"X6". CONFIRM ALL REQUIREMENTS WITH BDA SYSTEM VENDOR. PROVIDE 2" CONDUIT BETWEEEN EACH RISER JUNCTION BOX. MAINTAIN FIRE RATING OF FLOORS AND WALLS AS REQUIRED.
16. POWER AND DATA FOR EMPLOYEE TIMECLOCK. SEE ARCHITECTUAL DRAWINGS FOR DEVICE MOUNTING HEIGHTS PRIOR TO ROUGH-IN.
17. PROVIDE RESCUE ASSISTANCE HEAD END UNIT (BASED ON CORNELL COMMUNICATIONS 4200 SERIES VERIFY SYSTEM WITH ARCH.). COORDINATE EXACT LOCATION AN LOCATION OF ALL COMPONENTS WITH LOCAL AHJ. PROVIDE POWER AS SHOWN TO BATTERY UNIT. FIELD VERIFY EXACT LOCATION OF BATTERY UNIT.
18. REFERENCE ARCH. DRAWING FOR TV AND OUTLET ELEVATIONS.
19. GROUND SYSTEMS PER DETAIL DETAIL 1 ON SHEET E-1.
20. SEE DETAIL 3 FOR MASTER LIGHT SWITCHING CONFIGURATION.
21. POWER IS PROVIDED THROUGH HP-5. PROVIDE LOCAL DISCONNECT.



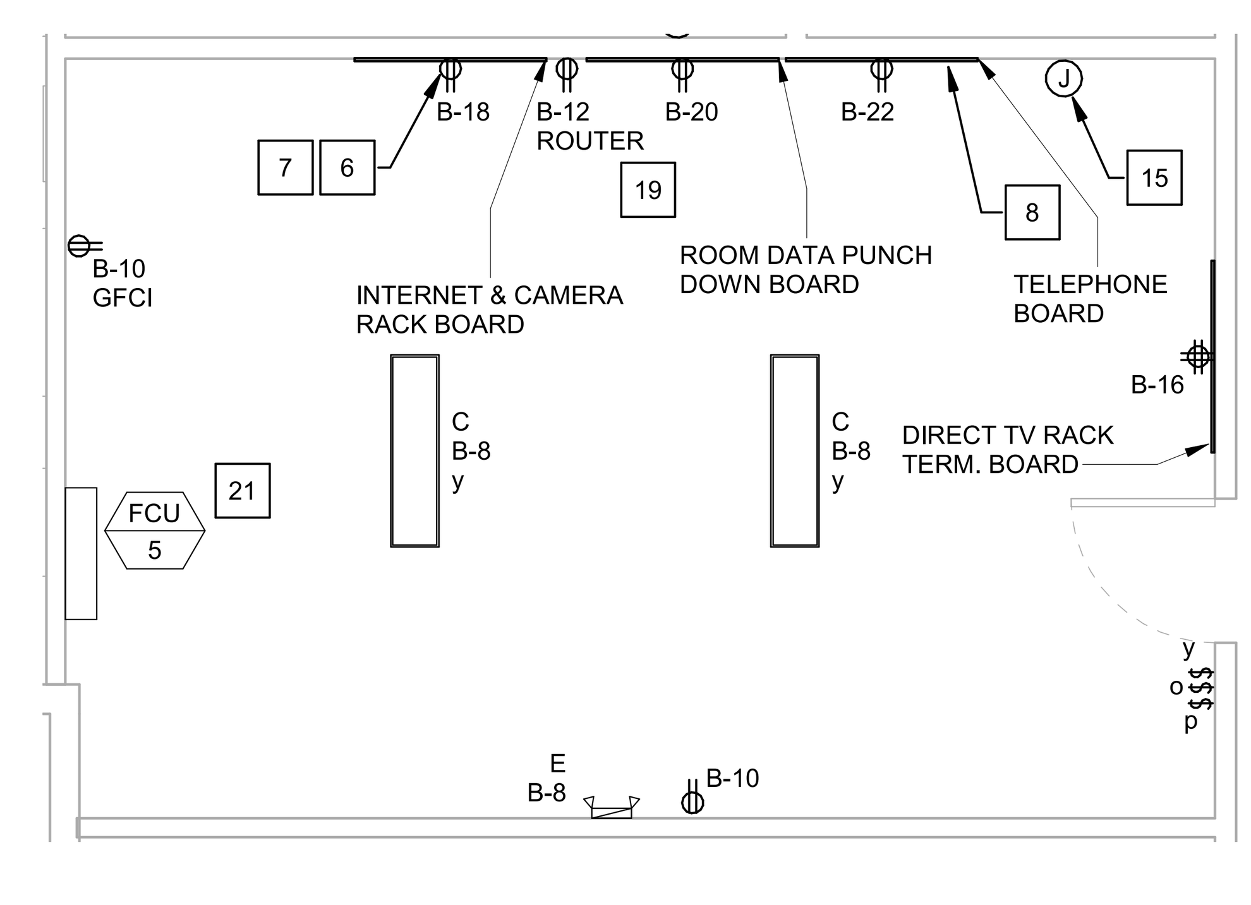
4 DRYER INTERLOCK DETAIL
SCALE: NOT TO SCALE



3 ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"



2 ENLARGED RR/ELEVATOR
SCALE: 1/4" = 1'-0"



1 ENLARGED UTILITY ROOM #240
SCALE: 1/4" = 1'-0"

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Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name
WoodSpring Suites

Project Address
1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By: CB / MR / TP
Checked By: AR / CF
Document Date: 08/16/23
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Bulletins Through: WSS_v2_B08
Project No. 31000541
Professional Seal

STATE OF MISSOURI
RANDALL A. NELSON
NUMBER PE-2007003990
PROFESSIONAL ENGINEER
08/16/23

Sheet Title
ELECTRICAL ENLARGED PLANS
Sheet No.
E-8

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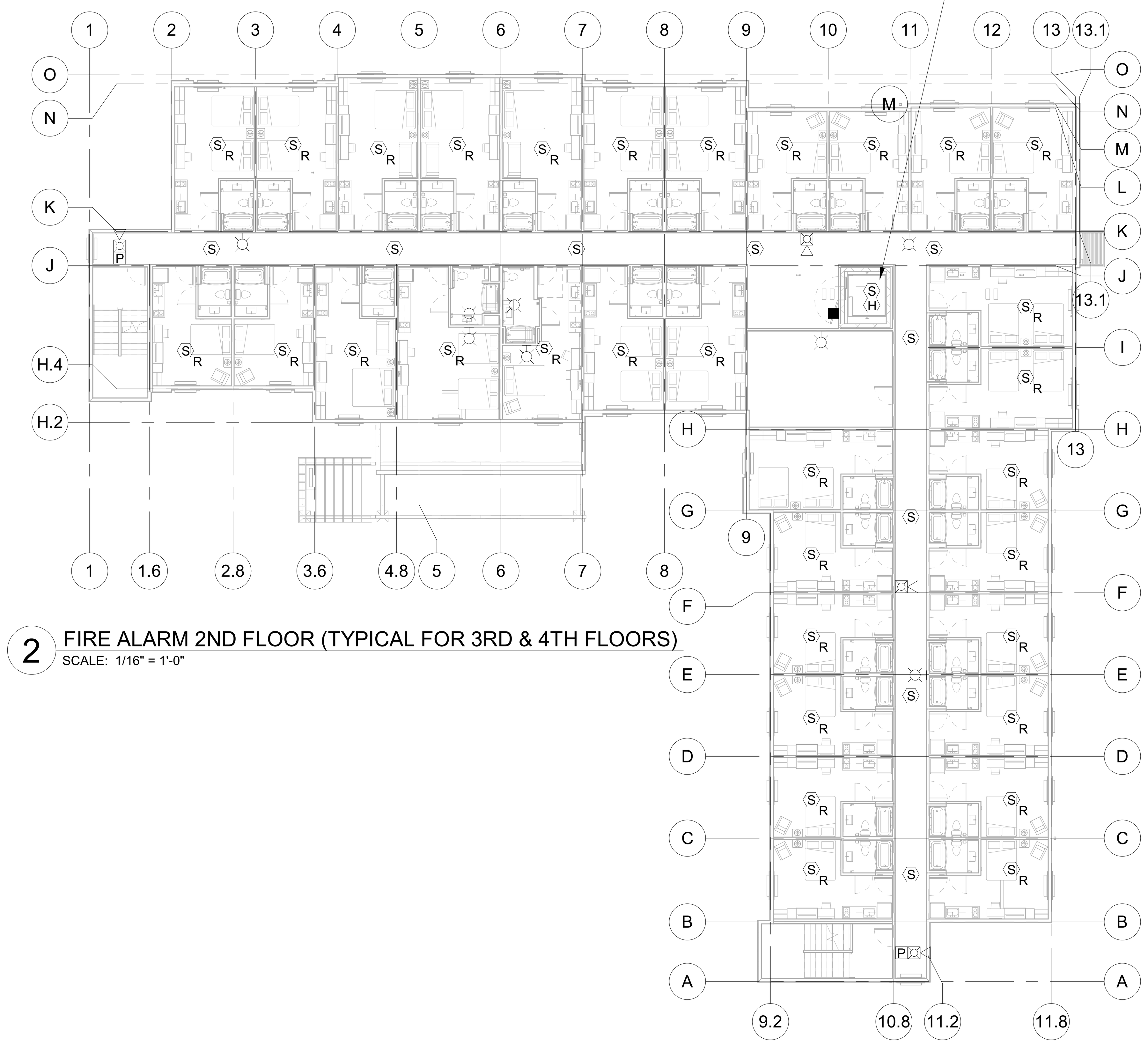
FIRE ALARM MATRIX

OUTPUTS:
1. ACTUATE COMMON ALARM SIGNAL LAMP
2. ACTUATE COMMON SUPERVISORY SIGNAL LAMP
3. ACTUATE COMMON TROUBLE SIGNAL LAMP
4. ACTUATE PIEZO - FACP \ ANNUNCIATOR
5. ACTUATE AUDIO\VISUAL DEVICES - GENERAL ALARM
6. ACTUATE AUDIO\VISUAL DEVICES - LOCAL ALARM
7. ACTUATE FIRE\SMOKE DAMPERS BY LOCATION
8. ACTUATESMOKE RELIEF DAMPER TOP OF ELEVATOR SHAFT
9. SHUTDOWN AIR HANDLER EQUIPMENT WITH ASSOCIATED DUCT DETECTOR
10. UNLOCK ACCESS CONTROLLED DOORS
11. RELEASE ELECTROMAGNETICALLY CLOSED DOORS
12. RECALL ELEVATOR TO PRIMARY RECALL FLOOR
13. RECALL ELEVATOR TO ALTERNATE RECALL FLOOR
14. ACTIVATE ELEVATOR WARNING LIGHTS
15. ACTIVATE ELEVATOR SHUNT TRIP
16. TRANSMIT SIGNAL TO CENTRAL STATION

	INPUTS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
COMMON AREA	MANUAL PULL BOX	A	●			●	●	●	●	●		●	●					●	A
	SMOKE DETECTOR	B	●			●	●	●	●	●		●	●					●	B
	HEAT DETECTOR	C	●			●	●	●	●	●		●	●					●	C
	DUCT DETECTOR	D		●		●				●	●							●	D
ELEVATOR	ELEVATOR LOBBY SMOKE - NOT FLOOR 1	E	●			●	●	●	●	●		●	●	●				●	E
	ELEVATOR LOBBY SMOKE - FLOOR 1	F	●			●	●	●	●	●		●	●		●			●	F
	SMOKE DETECTOR ELEVATOR MACHINE ROOM	G	●			●	●	●	●	●		●	●	●		●		●	G
	HEAT DETECTOR ELEVATOR MACHINE ROOM	H	●			●	●	●	●	●		●	●				●	●	H
	SMOKE DETECTOR ELEVATOR PIT	I	●			●	●	●	●	●		●	●		●	●		●	I
	HEAT DETECTOR ELEVATOR PIT	J	●			●	●	●	●	●		●	●				●	●	J
	SMOKE DETECTOR ELEVATOR TOP OF SHAFT	K	●			●	●	●	●	●		●	●	●		●		●	K
	HEAT DETECTOR ELEVATOR TOP OF SHAFT	L	●			●	●	●	●	●		●	●				●	●	L
	FLOW SWITCH ELEVATOR MACHINE ROOM	M	●			●	●	●	●	●		●	●				●	●	M
	TAMPER SWITCH ELEVATOR MACHINE ROOM	N		●		●				●								●	N
	FLOW SWITCH TOP OF SHAFT	O	●			●	●	●	●	●		●	●				●	●	O
	TAMPER SWITCH TOP OF SHAFT	P		●		●												●	P
FIRE SPRINKLER	FIRE PUMP RUN	Q		●		●												●	Q
	FIRE PUMP PHASE REVERSAL	R		●		●												●	R
	FIRE PUMP PHASE FAIL	S		●		●												●	S
	FLOW SWITCH	T	●			●	●	●	●			●	●					●	T
	TAMPER SWITCH	U		●		●												●	U
	DRY SYSTEM LOW HI\LOW	V		●		●												●	V
	HEAT TRACE FAULT	W		●		●												●	W
SYSTEM	SYSTEM ALARM	X	●			●	●	●	●			●	●					●	X
	SYSTEM SUPERVISORY	Y		●		●												●	Y
	SYSTEM TROUBLE	Z			●	●												●	Z
	GROUND FAULT	AA			●	●												●	AA
	FIRE ALARM SYSTEM LOW BATTERY	BB			●	●												●	BB
	FIRE ALARM AC POWER FAILURE	CC			●	●												●	CC
	NOTIFICATION APPLIANCE SHORT CIRCUIT	DD			●	●												●	DD
	OPEN CIRCUIT	EE			●	●												●	EE
WITHIN SUITES	SMOKE DETECTOR	FF		●		●		●										●	FF
	CO DETECTOR	GG		●		●		●										●	GG
	COMBINATION DETECTOR (SMOKE/CO)	HH		●		●		●										●	HH
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	



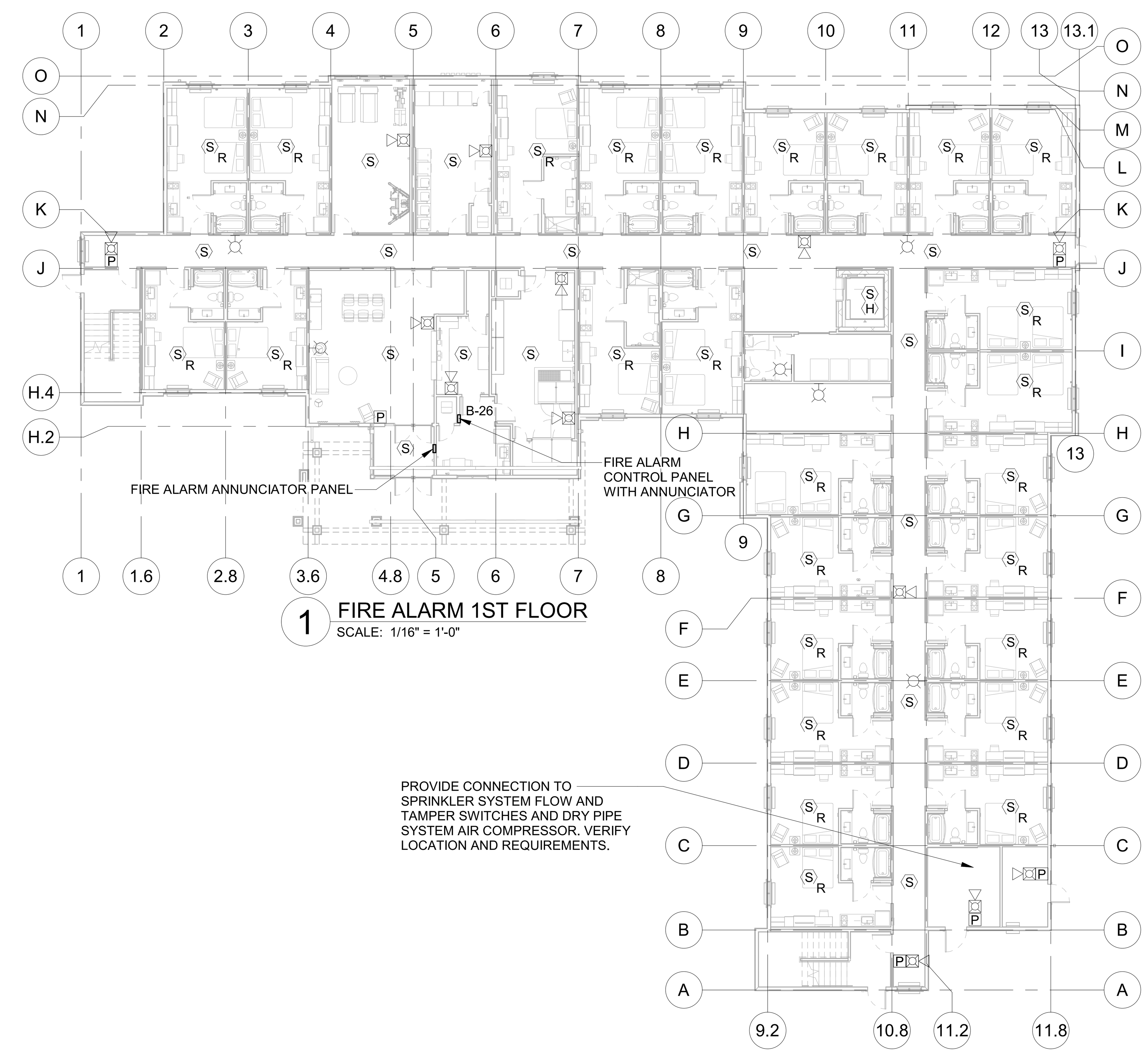
2 FIRE ALARM 2ND FLOOR (TYPICAL FOR 3RD & 4TH FLOORS)
SCALE: 1/16" = 1'-0"

FIRE ALARM GENERAL NOTES

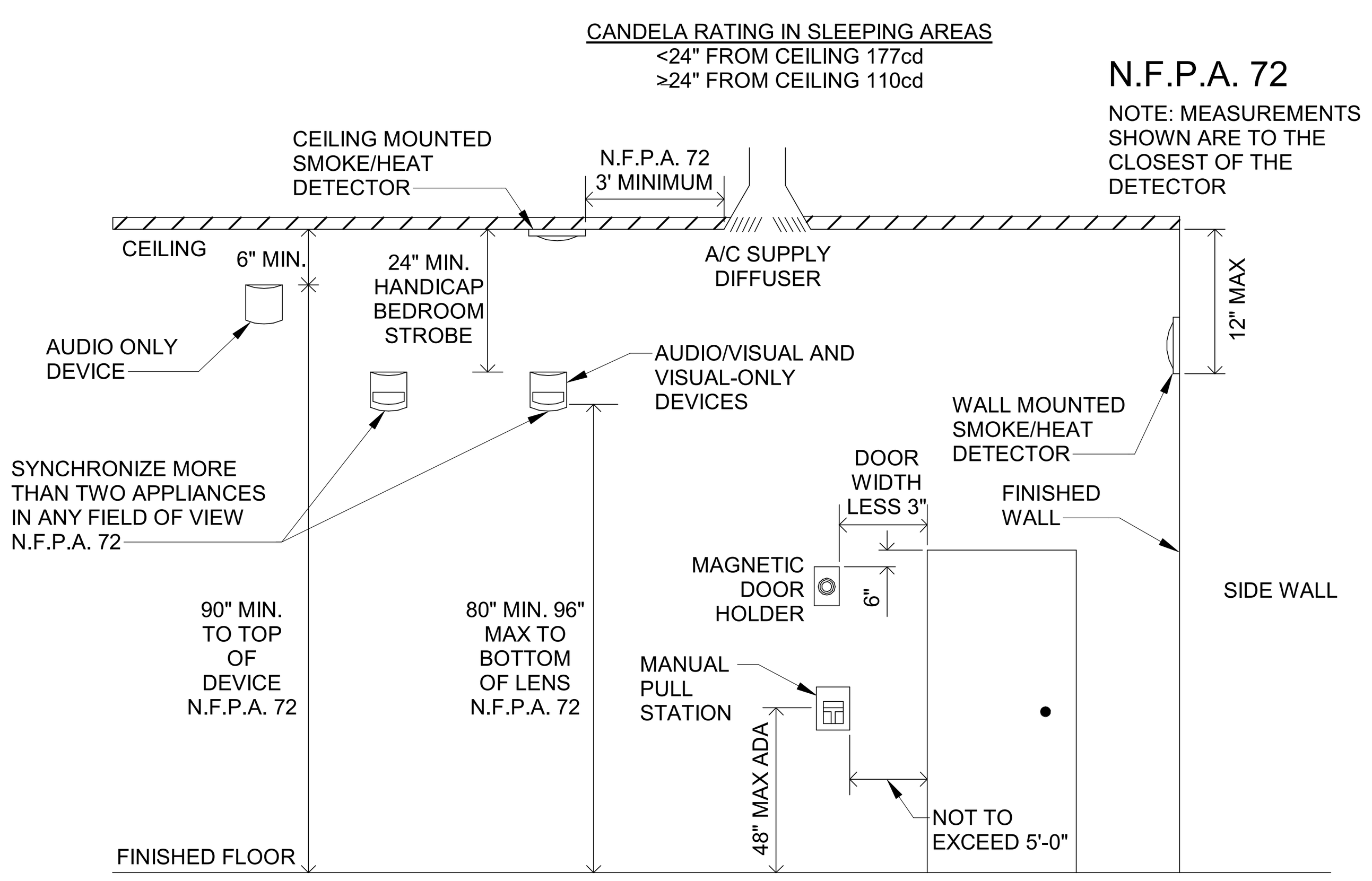
1. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
2. REFER TO RELATED ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION.
3. REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
4. COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING OF BRICK BLOCK.
5. ALL MOUNTING HEIGHTS TO BOTTOM OF ITEM UNLESS NOTED OTHERWISE.
6. WHERE AREA SMOKE DETECTORS ARE SHOWN ON THE DRAWINGS ELECTRICAL CONTRACTOR SHALL NOT LOCATE SMOKE DETECTORS CLOSER THAN 3 FEET FROM ANY MECHANICAL AIR SUPPLY OR RETURN DIFFUSER, GRILLE, OR REGISTER PER NFPA. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR LOCATION OF DETECTOR.
7. ALL FIRE ALARM DEVICE LOCATIONS AND DETAILS ARE FOR REFERENCE ONLY. LOCAL GOVERNING CODES AND REQUIREMENTS SHALL TAKE PREFERENCE OVER ALL DETAILS FOR LOCATIONS AND MOUNTING HEIGHTS. VERIFY LOCAL GOVERNING CODES AND REQUIREMENTS WITH LOCAL INSPECTION DEPARTMENT PRIOR TO BID. COMPLETE FIRE ALARM SYSTEM, INSTALLATION AND OPERATION SHALL MEET THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. ALL INITIATING DEVICES MUST BE ADDRESSABLE. "STAND ALONE" DEVICES WILL NOT BE ALLOWED UNLESS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
8. HEARING IMPAIRED SUITES REQUIRE ADDITIONAL STROBE LIGHTS, FIELD VERIFY ROOMS THAT REQUIRE ADDITIONAL STROBES. STROBES SHALL BE LOCATED AS REQUIRED BY NATIONAL, STATE, AND LOCAL ORDINANCES. RE: ARCHITECTURAL PLANS FOR HEARING IMPAIRED ROOM NUMBERS.
9. RE: ARCHITECTURAL PLANS FOR ADA ROOM NUMBERS.
10. ALL AUDIO DEVICES WITHIN SLEEPING AREAS SHALL PRODUCE A 520 HZ, LOW-FREQUENCY SIGNAL PER N.F.P.A. 72.
11. ALL WALL MOUNTED VISIBLE NOTIFICATION APPLIANCES, LOCATED IN SLEEPING AREAS, SHALL BE NO CLOSER THAN 24" TO THE CEILING AND HAVE A CANDELA RATING NO LESS THAN 110cd. APPLIANCES MOUNTED ON THE WALL CLOSER THAN 24" TO THE CEILING OR ON THE CEILING SHALL HAVE A CANDELA RATING NOT LESS THAN 177cd PER N.F.P.A. 72.
12. ALL NOTIFICATION APPLIANCES SHALL BE WHITE IN COLOR.
13. PROVIDE CO DETECTION IN ALL GUEST ROOMS ADJACENT TO AND ABOVE ROOMS WITH GAS APPLIANCES AND ALL AREAS AND SUITES AS REQUIRED BY LOCAL CODES. CONFIRM ALL REQUIREMENTS WITH LOCAL AHJ.
14. PROVIDE CO DETECTION IN ALL AREAS AND SUITES AS REQUIRED BY LOCAL CODES. CONFIRM ALL REQUIREMENTS WITH LOCAL AHJ.
15. PROVIDE ALL INTERCONNETION BETWEEN BDA SYSTEM AND FACP REQUIRED.

FIRE ALARM SYMBOL LIST

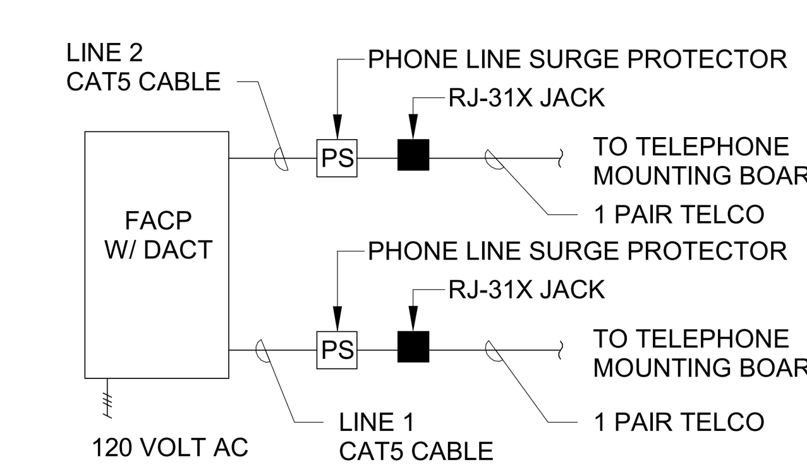
SYMBOL	DESCRIPTION	MOUNTING
P	FIRE ALARM MANUAL PULL STATION	4'-0" TO TOP
	COMBINATION F.A. HORN & STROBE SIGNAL	WALL 80" A.F.F.
	FIRE ALARM STROBE SIGNAL	WALL 80" A.F.F.
S	AREA SMOKE DETECTOR, SEE F.A. GENERAL NOTE #6	CEIL./WALL
■	FIRE ALARM MAGNETIC DOOR HOLD OPEN (HOLD OPEN)	VERIFY
S R	RESIDENT ROOM SMOKE DETECTOR AND SOUNDER BASE	CEIL./WALL
H	AREA HEAT DETECTOR	CEIL./WALL
H	HEARING IMPAIRED HORN & STROBE SIGNAL	WALL 80" A.F.F.



1 FIRE ALARM 1ST FLOOR
SCALE: 1/16" = 1'-0"



5 DEVICE MOUNTING HEIGHTS
SCALE: NOT TO SCALE



4 TYPICAL MOUNTING HEIGHT
SCALE: NOT TO SCALE

NO MODULES, RELAYS, RESETS, ANNUNCIATORS, OR OTHER DEVICE REQUIRED BY FA SYSTEM DESIGN, BUT NOT SHOWN ON THE CONTRACT DOCUMENTS, SHALL BE INSTALLED WITHOUT WRITTEN CONFIRMATION OF LOCATION FROM OWNER PRIOR TO SUBMISSION OF SHOP DRAWINGS. SHOP DRAWING APPROVAL SHALL NOT CONSTITUTE APPROVAL OF DEVICES NOT REVIEWED AND APPROVED IN ADVANCE.

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Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name
WoodSpring Suites

Project Address
1010 NW WARD ROAD LEE'S SUMMIT, MO

WOODSPRING SUITES

Drawn By: CB / MR / TP
Checked By: AR / CF
Document Date: 08/16/23
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Project No. 31000541

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STATE OF MISSOURI
RANDALL A. NELSON
NUMBER PE-2007003990
PROFESSIONAL ENGINEER
08/16/23

Sheet Title
FIRE ALARM SYSTEM PLANS

Sheet No.
E-9

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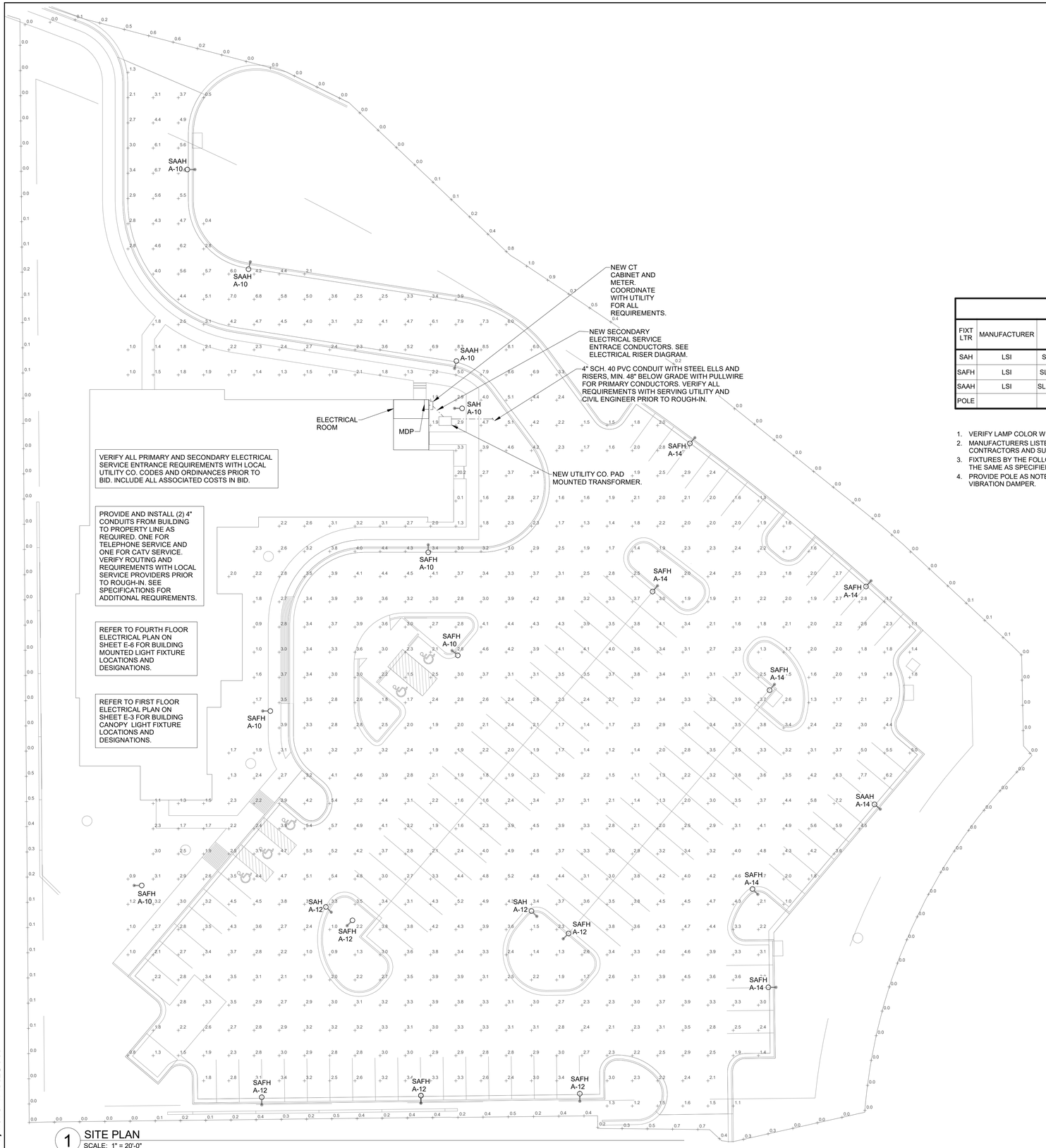


1 SITE PLAN
SCALE: 1" = 20'-0"

GENERAL NOTES:

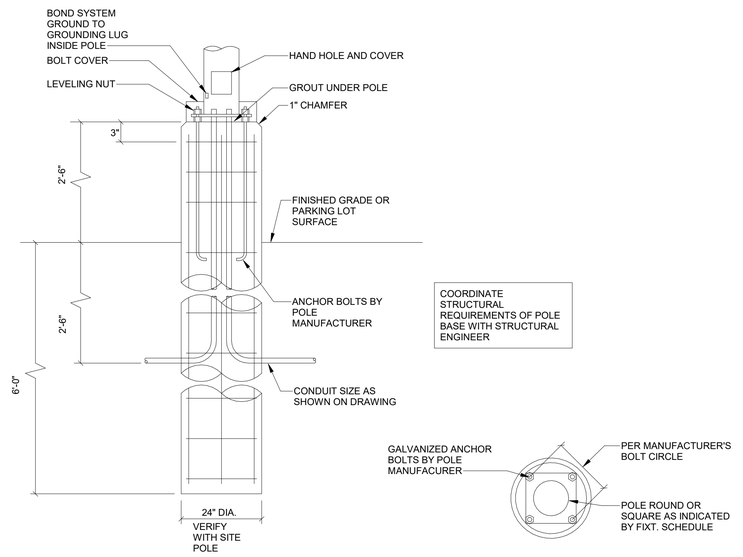
1. VERIFY PAD LOCATION, DIMENSION, AND ALL REQUIREMENTS WITH LOCAL UTILITY COMPANY. VERIFY ALL REQUIREMENTS WITH LOCAL UTILITY COMPANY PRIOR TO CONSTRUCTION OF PAD.
2. THE TOP OF THE TRANSFORMER PAD SHALL RECIEVE A SMOOTH TROWEL FINISH. THE CORNERS AND EDGES SHALL BE ROUNDED OR BEVELLED.
3. IF THE TRANSFORMER PAD IS INSTALLED IN AN AREA SUBJECT TO VEHICULAR TRAFFIC, THE INSTALLATION SHALL BE PROTECTED PER UTILITY COMPANY STANDARDS.
4. THE CONDUIT OPENING SHALL BE FREE AND CLEAR OF CONCRETE.
5. THE MAXIMUM NUMBER OF CONDUITS FOR THE SECONDARY SERVICE SHALL NOT EXCEED THE MAXIMUM NUMBER ALLOWED BY THE UTILITY COMPANY. VERIFY ALL REQUIREMENTS WITH UTILITY COMPANY PRIOR TO ROUGH-IN.
6. PROVIDE PROPER CLEARANCE AROUND THE TRANSFORMER FROM ANY ABOVE GROUND OBSTRUCTIONS. VERIFY ALL REQUIREMENTS WITH LOCAL UTILITY COMPANY AND AHJ.

SITE LIGHT FIXTURE SCHEDULE

FIXT LTR	MANUFACTURER	CATALOG NUMBER	LAMPS NO.	LAMPS TYPE	FIXT VOLT	FINISH	MOUNTING	TOTAL VA.	REMARKS
SAH	LSI	SLM LED 18L SIL 3 UNV DIM 50 70CRI BRZ IL	-	LED W/ UNIT	120	BRONZE	25'	148.5	SITE LIGHTING HEAD WITH HOUSE SIDE SHIELD
SAFH	LSI	SLM LED 18L SIL FT UNV DIM 50 70CRI BRZ IL	-	LED W/ UNIT	120	BRONZE	25'	148.5	FORWARD THROW HEAD WITH HOUSE SIDE...
SAAH	LSI	SLM LED 18L SIL FTA UNV DIM 50 70CRI BRZ IL	-	LED W/ UNIT	120	BRONZE	25'	148.5	FORWARD THROW HEAD WITH HOUSE SIDE...
POLE		5SQB5 S07G 24 S BRZ POLE			-	BRONZE			

LIGHT FIXTURE SCHEDULE NOTES

1. VERIFY LAMP COLOR WITH ARCHITECT PRIOR TO ORDERING.
2. MANUFACTURERS LISTED IN THIS SCHEDULE OR BY WRITTEN ADDENDUM WILL BE THE ONLY APPROVED MANUFACTURERS TO BID THE LIGHTING FIXTURES FOR THIS PROJECT. CONTRACTORS AND SUPPLIERS USING PRICING FROM MANUFACTURERS NOT LISTED ON SCHEDULE OR BY ADDENDUM DO SO AT THEIR OWN RISK.
3. FIXTURES BY THE FOLLOWING MANUFACTURERS EQUAL TO THOSE SPECIFIED AND APPROVED BY THE ENGINEER WILL BE ACCEPTABLE: FIXTURE EQUALS SHALL BE MANUFACTURED THE SAME AS SPECIFIED UNITS, I.E., ENCLOSED SPRING LOADED LATCHES, ALUMINUM DOORS, POST PAINTED FINISH.
4. PROVIDE POLE AS NOTED. POLE TYPE AND EXACT SPEC MUST MEET ALL CODE REQUIREMENTS FOR LOCAL WIND LOAD CATEGORY. PROVIDE POLE WITH FACTORY INSTALLED VIBRATION DAMPER.



2 POLE BASE DETAIL
SCALE: NOT TO SCALE

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STATE OF MISSOURI
RANDALL A. NELSON
NUMBER PE-2007003890
PROFESSIONAL ENGINEER
08/16/23

Sheet Title
ELECTRICAL SITE PLAN
Sheet No.
E-10

GENERAL ELECTRICAL NOTES

PART 1 - GENERAL EXTENT OF WORK

1.1 THE GENERAL CONDITIONS, GENERAL REQUIREMENTS, AND SPECIAL CONDITIONS SHALL BE AND ARE HEREBY MADE A PART OF THIS SECTION. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, TRANSPORTATION, EQUIPMENT, SERVICES AND FACILITIES REQUIRED FOR THE COMPLETE, PROPER AND SUBSTANTIAL INSTALLATION OF ALL ELECTRICAL WORK SHOWN ON THE DRAWINGS AND/OR OUTLINED IN THESE SPECIFICATIONS. THE INSTALLATION SHALL INCLUDE ALL MATERIALS, APPLIANCES AND APPARATUS NOT SPECIFICALLY MENTIONED HEREIN OR NOTED ON THE DRAWINGS, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION OF ALL ELECTRICAL SYSTEMS.

1.2 THE CONTRACTOR SHALL CONSULT AND BE GUIDED BY THE GENERAL CONDITIONS AND ALL OTHER DIVISIONS REFERRED TO HEREIN AND RELATIVE THERETO IN PERFORMING THE WORK COVERED UNDER THIS DIVISION OF THE SPECIFICATION.

1.3 ALL OF THE ELECTRICAL RELATED WORK REQUIRED FOR THIS PROJECT (UNLESS SPECIFIED OTHERWISE) IS A PART OF THE ELECTRICAL CONTRACT PRICE AND IS NOT NECESSARILY SPECIFIED UNDER THIS DIVISION OF THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. THEREFORE, ALL DIVISIONS OF THE SPECIFICATIONS AND ALL DRAWINGS SHALL BE CONSULTED.

1.4 THE DRAWINGS SHOWING THE LAYOUT OF THE WORK INDICATE THE APPROXIMATE LOCATIONS OF OUTLETS, APPARATUS AND EQUIPMENT. THE DRAWINGS ARE SCHEMATIC ONLY AND ARE NOT INTENDED TO SHOW THE EXACT ROUTING OF CONDUITS, ETC. THE FINAL DETERMINATION AS TO THE ROUTING SHALL BE GOVERNED BY STRUCTURAL CONDITIONS AND OTHER OBSTRUCTIONS. THIS SHALL NOT BE CONSTRUED TO MEAN THE DESIGN OF THE SYSTEM MAY BE CHANGED, IT MERELY REFERS TO THE EXACT RUN OF A RACEWAY BETWEEN GIVEN POINTS. THE CONTRACTOR SHALL CONSULT ALL CONTRACT DRAWINGS WHICH MAY AFFECT THE LOCATION OF ANY OUTLET, APPARATUS OR EQUIPMENT TO AVOID POSSIBLE INTERFERENCE AND PERMIT FULL COORDINATION OF ALL WORK. THE RIGHT TO MAKE ANY REASONABLE CHANGE IN THE LOCATION OF APPARATUS, OUTLETS AND EQUIPMENT UP TO THE TIME OF ROUGHING-IN IS RESERVED BY THE ARCHITECT WITHOUT INVOLVING ANY ADDITIONAL EXPENSE TO THE OWNER.

1.5 THE APPROVAL BY THE ARCHITECT OR HIS REPRESENTATIVE OF ANY MATERIALS, DRAWINGS, ETC., SUBMITTED BY THE CONTRACTOR WILL BE CONSIDERED AS GENERAL ONLY AND TO AID THE CONTRACTOR IN CARRYING OUT HIS WORK. SUCH APPROVAL AS MAY BE GIVEN DOES NOT RELIEVE THE CONTRACTOR FROM THE NECESSITY OF FURNISHING THE MATERIALS AND PERFORMING ALL THE WORK AS REQUIRED BY THE DRAWINGS AND THE SPECIFICATIONS.

1.6 THE WORK SPECIFIED UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL INCLUDE THE FURNISHING OF ALL LABOR, MATERIALS, APPARATUS AND TOOLS NECESSARY FOR THE COMPLETE INSTALLATION OF ALL CONDUIT AND WIRING; DEVICES FOR LIGHTING, POWER AND CONTROL SYSTEMS, AND SUCH OTHER WORK AND EQUIPMENT AS ARE INDICATED ON THE DRAWINGS OR AS NOTED HEREIN.

1.7 THE ENTIRE INSTALLATION SHALL BE MADE IN A WORKMAN LIKE MANNER, LEFT COMPLETELY CONNECTED, AND READY TO GIVE PROPER AND CONTINUOUS SERVICE.

1.8 ALL MATERIALS AND WORK IN CONNECTION WITH THE FOREGOING ITEMS SHALL BE AS SPECIFIED HEREIN, OR CALLED FOR ON THE DRAWINGS.

1.9 THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND ALL OTHER BOARDS AND DEPARTMENTS HAVING JURISDICTION. ANY ITEMS OR REQUIREMENTS NOTED HEREIN OR SHOWN ON THE DRAWINGS IN EXCESS OF CODE REQUIREMENTS, BUT PERMITTED UNDER THE CODE, SHALL TAKE PREFERENCE UNLESS SPECIAL PERMISSION IS OBTAINED FROM THE ARCHITECT TO THE CONTRARY.

1.10 THE LIGHT AND POWER INSTALLATION SHALL OPERATE WITH THE ELECTRICAL ENERGY OBTAINED FROM OUTSIDE SOURCES. SUCH PART OF THE SYSTEM AS MAY BE REGULATED BY RULES OF THE LOCAL UTILITY COMPANY SHALL, INSOFAR AS METHOD OF CONSTRUCTION, WORKMANSHIP AND MATERIALS ARE CONCERNED, BE IN FULL ACCORDANCE WITH THE STANDARD PRACTICE AND RULES AND REGULATIONS OF THE LOCAL UTILITY COMPANY.

1.11 THIS CONTRACTOR SHALL COORDINATE HIS WORK UNDER THIS DIVISION OF THE SPECIFICATIONS WITH THE WORK OF OTHER TRADES WHEREIN IT MAY BE INTERRELATED. HIS WORK SHALL BE DONE IN SUCH AN ORDER THAT THERE WILL BE NO INTERFERENCE IN INSTALLING, NOR DELAY IN COMPLETION, OF ANY PART OR PARTS OF EACH RESPECTIVE TRADE, THEREBY PERMITTING ALL CONSTRUCTION WORK TO PROCEED IN ITS NATURAL SEQUENCE WITHOUT UNNECESSARY DELAY.

1.12 BEFORE SUBMITTING HIS BID, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE RULES OF ALL GOVERNING BODIES HAVING JURISDICTION AND SHALL NOTIFY THE ARCHITECT IN SUBMITTING HIS BID, IF IN HIS OPINION, ANY WORK OR MATERIAL SPECIFIED IS CONTRARY TO SUCH RULES. OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE APPROVAL OF ALL WORK AND MATERIALS AND, IN CASE THE USE OF ANY MATERIAL SPECIFIED IS NOT PERMITTED, A SUBSTITUTE SHALL BE APPROVED BY THE ARCHITECT AND SHALL BE PROVIDED AT NO INCREASE IN COST.

1.13 UNLESS NOTED OTHERWISE ON THE DRAWINGS, OR ELSEWHERE IN THESE SPECIFICATIONS, THE SINGULAR WORDS 'PROVIDE', 'FURNISH', OR 'INSTALL' NOTED ON THE DRAWINGS OR IN THESE SPECIFICATIONS SHALL MEAN TO COMPLETELY FURNISH, INSTALL, AND CONNECT EACH ITEM, AND IF SUCH IS A PART OR COMPONENT OF A SYSTEM THE ENTIRE SYSTEM SHALL BE FUNCTIONAL WITH ALL ITEMS AND COMPONENTS PROVIDED.

PART 2 - RULES AND REGULATIONS

2.1 ALL WORK UNDER THIS HEADING SHALL COMPLY WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRICAL CODE STANDARD OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND WITH ALL LAWS, REGULATIONS AND ORDINANCES OF THE UTILITY COMPANY, CITY, COUNTY AND STATE.

2.2 DRAWINGS AND SPECIFICATIONS INDICATE THE MINIMUM STANDARDS OF CONSTRUCTION. SHOULD ANY WORK INDICATED BE SUBSTANDARD TO ANY ORDINANCE, LAW, CODE, RULE OR REGULATION BEARING ON WORK, THE CONTRACTOR SHALL EXECUTE WORK ACCORDINGLY, WITHOUT INCREASED COST TO THE OWNER, BUT NOT UNTIL HE HAS REFERRED SUCH VARIANCES TO THE ARCHITECT FOR HIS APPROVAL.

2.3 THIS CONTRACTOR SHALL PROVIDE AND INSTALL ONLY THE BRANDS OF MATERIALS AND EQUIPMENT SPECIFIED HEREIN, OR EQUIPMENT APPROVED BY THE ARCHITECT-ENGINEER AS EQUAL. ALL MATERIAL AND EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITERS LABORATORIES, INC., INDICATING COMPLIANCE WITH NATIONALLY RECOGNIZED STANDARDS AND/OR TESTS.

PART 3 - PERMITS, FEES AND INSPECTIONS

3.1 SECURE AND PAY FOR ALL NECESSARY AND USUAL PERMITS, FEES, INSPECTIONS AND CERTIFICATES REQUIRED FOR THIS WORK AND DELIVER PERMITS AND CERTIFICATES TO THE ARCHITECT FOR TRANSMITTAL TO THE OWNER BEFORE FINAL ACCEPTANCE OF THE PROJECT.

PART 4 - SERVICES

4.1 THIS CONTRACTOR SHALL PAY FOR ALL EXPENSES, DEPOSITS, REIMBURSEMENTS, ETC., REQUIRED BY THE LOCAL RULES AND CODES FOR THE SERVICE TO THE BUILDING, COMPLETE AND READY FOR USE.

4.2 THIS CONTRACTOR SHALL BEAR ALL EXPENSES INVOLVED FOR THE COMPLETE INSTALLATION OF THE ELECTRICAL SERVICE (BOTH TEMPORARY AND PERMANENT) TO THE BUILDING READY FOR OPERATION, EXCEPT AS SPECIFICALLY EXCLUDED ON THE DRAWINGS. ALL TEMPORARY WIRING SHALL BE INSTALLED PER THE NATIONAL ELECTRICAL CODE. THIS SHALL INCLUDE GUARD POSTS AROUND TRANSFORMERS AND PEDESTALS PER UTILITY COMPANY STANDARDS. VERIFY COMPLETE INSTALLATION AND LOCATIONS OF PAD MOUNT OR POLE MOUNT TRANSFORMERS WITH THE LOCAL ELECTRIC UTILITY COMPANY AND BID INSTALLATION TO COMPLY WITH THEIR REQUIREMENTS.

4.3 THIS CONTRACTOR SHALL CONSULT ALL LOCAL DEPARTMENTS TO VERIFY REQUIREMENTS AND BID INSTALLATION OF SERVICE IN ACCORDANCE WITH LOCAL CODES AND UTILITY COMPANY STANDARDS.

4.4 THIS CONTRACTOR SHALL BEAR ALL EXPENSES INVOLVED FOR THE COMPLETE TELEPHONE SERVICE CONDUIT INSTALLATION AND STEEL OR NYLON PULL WIRE READY FOR CABLE INSTALLATION. VERIFY COMPLETE INSTALLATION WITH THE LOCAL TELEPHONE COMPANY AND BID INSTALLATION TO COMPLY WITH THEIR REQUIREMENTS.

PART 5 - TEMPORARY ELECTRICAL

5.1 ELECTRICAL CONTRACTOR/SUBCONTRACTOR SHALL:

A. MAKE ARRANGEMENTS WITH ELECTRIC UTILITY FOR TEMPORARY SERVICE.
B. PROVIDE MATERIALS, EQUIPMENT, LABOR TO INSTALL, MODIFY, MAINTAIN (AND UPON COMPLETION OF PROJECT, REMOVE) SAFE TEMPORARY ELECTRICAL POWER AND LIGHTING SYSTEMS PER OSHA STANDARDS.
C. PROVIDE SUFFICIENT CAPACITY FOR CONSTRUCTION TOOLS, EQUIPMENT, TEMPORARY VENTILATION AND LIGHTING.
D. DISTRIBUTE SYSTEMS THROUGHOUT BUILDING AND CONSTRUCTION AREA OF SITE SUCH THAT AN EXTENSION CORD NO LONGER THAN 100' WILL REACH ANY WORK AREA. OPEN BRANCH SYSTEMS PERMITTED WHERE PERMITTED BY THE NATIONAL ELECTRICAL CODE AND OSHA. PROVIDE TEMPORARY SERVICES TO ALL CONSTRUCTION OFFICES AS REQUIRED.
E. EMPLOY PERMANENT SYSTEMS AS THEY ARE COMPLETED AND AVAILABLE.
F. PROVIDE METERING OF TEMPORARY SERVICE. ALL TEMPORARY UTILITY COSTS WILL BE PAID BY THE GENERAL CONTRACTOR.

PART 6 - MATERIALS OF APPROVED EQUAL

6.1 WHERE ITEMS OF EQUIPMENT AND/OR MATERIALS ARE SPECIFICALLY IDENTIFIED HEREIN BY A MANUFACTURER'S NAME, MODEL OR CATALOG NUMBER, ONLY SUCH SPECIFIC ITEMS MAY BE USED IN THE BASE BID, EXCEPT AS HEREINAFTER PROVIDED.

6.2 UNLESS REQUESTS FOR CHANGES IN BASE BID SPECIFICATIONS ARE RECEIVED AND APPROVED AND NOTED BY WRITTEN ADDENDUM PRIOR TO THE OPENING OF BIDS, THE SUCCESSFUL CONTRACTOR WILL BE HELD TO FURNISH SPECIFIED ITEMS.

6.3 AFTER CONTRACT IS AWARDED, CHANGES IN SPECIFICATIONS SHALL BE MADE ONLY AS DEFINED UNDER "SUBSTITUTION OF EQUIPMENT."

PART 7 - SUBSTITUTION OF EQUIPMENT

7.1 AFTER EXECUTION OF THE CONTRACT, NO SUBSTITUTION OF EQUIPMENT WILL BE ALLOWED.

7.2 REQUESTS FOR SUBSTITUTIONS MUST BE ACCOMPANIED BY DOCUMENTARY PROOF OF EQUALITY OF DIFFERENCE IN PRICE AND DELIVERY, IF ANY, IN FORM OF CERTIFIED QUOTATIONS FROM SUPPLIERS OF BOTH SPECIFIED AND PROPOSED EQUIPMENT.

7.3 THE OWNER SHALL RECEIVE ALL BENEFITS OF THE DIFFERENCE IN COST INVOLVED IN ANY SUBSTITUTION, AND THE CONTRACT ALTERED BY CHANGE ORDER TO CREDIT OWNER WITH ANY SAVINGS SO OBTAINED.

PART 8 - COORDINATION AND BUILDING CONDITIONS

8.1 THE CONTRACTOR SHALL VISIT THE SITE AND DETERMINE ALL EXISTING LOCAL CONDITIONS AFFECTING WORK IN HIS CONTRACT. HE SHALL EXAMINE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS TO FAMILIARIZE HIMSELF WITH THE TYPE OF CONSTRUCTION TO BE USED FOR ALL WORK AND HOW IT WILL AFFECT THE INSTALLATION OF WORK IN HIS CONTRACT.

8.2 FAILURE TO DETERMINE EXISTING CONDITIONS OR THE NATURE OF EXISTING OR NEW CONSTRUCTION WILL NOT BE CONSIDERED AS A BASIS FOR THE GRANTING OF ADDITIONAL COMPENSATION.

8.3 THE DRAWINGS HAVE BEEN PREPARED TO COVER ALL ELECTRICAL WORK UNDER THIS CONTRACT. THE CONTRACTOR IS REFERRED TO ALL OTHER CONTRACT DRAWINGS TO GUIDE HIM IN THE PROPER INSTALLATION OF HIS WORK.

8.4 THE CONTRACTOR SHALL FULLY FAMILIARIZE HIMSELF WITH THE FLOOR DRAWINGS, ELEVATIONS, DETAILS OF CONSTRUCTION, FEEDERS, FIXTURES, CONDUIT, WIRING, SERVICE, ETC., INSOFAR AS IT MAY AFFECT THE INSTALLATION OF THE WORK UNDER THIS SPECIFICATION IN ORDER THAT ALL NECESSARY MATERIALS AND LABOR MAY BE PROVIDED EVEN THOUGH NOT SPECIFICALLY REFERRED TO ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS.

8.5 AS THE DRAWINGS ARE GENERALLY DIAGRAMMATIC, THE FINAL LAYOUT OF THE WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT BUT THE CONTRACTOR SHALL BE RESPONSIBLE WITHOUT INCREASE IN CONTRACT PRICE FOR THE COORDINATION OF ALL WORK UNDER VARIOUS DIVISIONS OF THE SPECIFICATIONS.

8.6 THIS CONTRACTOR SHALL CONFER WITH OTHER CONTRACTORS INSTALLING WORK WHICH MAY AFFECT HIS WORK AND MUST ARRANGE HIS CONDUIT, ETC., IN PROPER RELATION TO SUCH WORK. ANY DAMAGE RESULTING FROM HIS NEGLECT TO DO SO MUST BE PAID FOR BY THE CONTRACTOR.

8.7 WHERE NECESSARY TO FIT AND CENTER WITH PANELING OF CEILINGS AND WALL SPACES, THE CONTRACTOR MUST, AT HIS OWN EXPENSE, SHIFT THE LIGHTING OUTLETS OR OTHER OUTLETS AS REQUIRED BY THE ARCHITECT.

8.8 ALL OUTLETS SHALL BE SET IN SUCH A MANNER AS TO FINISH FLUSH WITH WALL AND CEILING LINES UNLESS MARKED TO BE EXPOSED OR SURFACE MOUNTED ON THE DRAWINGS. THE HEIGHT OF BRACKETS, SWITCHES, OUTLETS, ETC., ARE TO BE AS DIRECTED.

8.9 THE CONTRACTOR SHALL OBTAIN FROM THE ARCHITECTURAL AND STRUCTURAL DRAWINGS THE EXACT LOCATION AND SIZE OF SPACES AVAILABLE FOR HIS APPARATUS AND MATERIAL AND SHALL INSTALL THEM ACCORDINGLY. IN CASE THE SPACE ALLOWED IS NOT SUFFICIENT, OR AN OBSTRUCTION INTERFERES WITH PLACING THEM AS SHOWN OR SPECIFIED, THE CONTRACTOR SHALL OBTAIN INSTRUCTIONS FROM THE ARCHITECT AND SHALL INSTALL THEM AS DIRECTED WITHOUT EXTRA CHARGE.

8.10 THE ABOVE PROVISIONS REFER ONLY TO THE EXACTNESS OF POSITIONS THAT CANNOT BE DETERMINED FROM THE DRAWINGS AND DO NOT PERMIT PLACING APPARATUS DISTINCTLY DIFFERENT FROM THAT SHOWN ON THE DRAWINGS.

8.11 THIS CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF BUILDING MATERIALS REQUIRED FOR THE INSTALLATION OF WORK HEREIN SPECIFIED. NO STRUCTURAL MEMBER SHALL BE CUT WITHOUT THE APPROVAL OF THE ARCHITECT AND ALL SUCH CUTTING SHALL BE DONE IN A MANNER DIRECTED BY HIM.

8.12 ALL PATCHING SHALL BE DONE IN A NEAT AND WORKMAN-LIKE MANNER, MEETING WITH THE APPROVAL OF THE ARCHITECT, BY MECHANICS OF THE PARTICULAR TRADE INVOLVED.

8.13 ANY HOLES OR VOIDS CREATED IN FLOORS, CEILINGS AND WALLS, INCLUDING ANY SPACES OR GAPS AROUND CONDUIT OR EQUIPMENT PASSING THROUGH SUCH AREAS, WHICH COMPROMISE THE APPLICABLE RATING OF THE FLOORS, CEILINGS OR WALLS, SHALL BE SEALED WITH AN INTUMESCENT MATERIAL CONFORMING TO ARCHITECTURAL REQUIREMENTS. ALL INSTALLATIONS SHALL BE PER MANUFACTURER'S EXACT INSTRUCTIONS.

8.14 ALL DRILLING OF HOLES THROUGH CONCRETE SHALL BE ACCURATELY AND CAREFULLY DONE BY USING A POWERED CONCRETE DRILL. THE USE OF A STAR DRILL OR AIR HAMMER FOR THIS WORK SHALL NOT BE PERMITTED.

8.15 ALL PAINTING SHALL BE PERFORMED IN ACCORDANCE WITH THE ARCHITECTURAL SPECIFICATION SECTION ON "PAINTING AND FINISHING". ALL COLORS AND FINISH APPLICATIONS SHALL BE AS DIRECTED BY THE ARCHITECT. (PAINTING IS NOT REQUIRED OF RECEPTACLES, SWITCHES, CIRCUIT BREAKERS, ETC., UNLESS SPECIFICALLY SO NOTED ON THE DRAWINGS.)

8.16 THE ELECTRICAL CONTRACTOR SHALL CONFIRM THE EXACT ELECTRICAL REQUIREMENTS FOR ALL EQUIPMENT SUPPLIED BY OTHERS AND INSTALLED OR CONNECTED BY THE ELECTRICAL CONTRACTOR. THE SPECIFIC WORK PERFORMED FOR THE INSTALLATION OF ANY EQUIPMENT SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS ESTABLISHED BY THE SHOP DRAWINGS OF THE EQUIPMENT SUPPLIED. IN THE EVENT THE SHOP DRAWINGS ESTABLISH REQUIREMENTS DISTINCTLY DIFFERENT THAN THE REQUIREMENTS SHOWN IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE ENTITLED ONLY TO AN ADJUSTMENT OF THE DIFFERENCE BETWEEN THE WORK SHOWN AND THE WORK REQUIRED WITH FULL CREDIT FOR LABOR AND MATERIALS SHOWN ON THE ORIGINAL DRAWINGS.

8.17 THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TRENCHING AND BACKFILLING FOR UNDERGROUND CONDUITS. UNLESS NOTED OTHERWISE IN OTHER DIVISIONS OF THESE SPECIFICATIONS, ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED WITH MATERIAL DEFINED BY THE UNITED SOIL CLASSIFICATION AS ML OR CL (SILT AND CLAY OF LOW TO MEDIUM PLASTICITY). COMPACTION SHALL BE TO 90% OF ASTM D698.

PART 9 - PERFORMANCE

9.1 PROVIDE AS PART OF THE WORK OF THIS CONTRACT, IN ADDITION TO THE FIRST YEAR GUARANTEE ON EQUIPMENT AND MATERIALS, THE FOLLOWING DESCRIBED ROUTINE MAINTENANCE AND INSPECTION. (THE ONE YEAR TIME PERIOD WILL NOT START UNTIL EACH AND EVERY ITEM IS COMPLETE IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS AND ACCEPTED BY THE OWNER). CHECK ALL EMERGENCY SYSTEMS, CONTROL, FIRE ALARM, TRANSFORMERS, ETC., CORRECT AND ADJUST SAME. THIS SERVICE TO BE PROVIDED DURING THE GUARANTEE PERIOD.

PART 10 - ADJUSTING, ALIGNING AND TESTING

10.1 ALL EQUIPMENT SHALL BE CHECKED FOR PROPER ADJUSTMENT AND BALANCE. ALL PANELBOARDS, DISTRIBUTION PANELS, SWITCHBOARDS, AND TRANSFORMERS SHALL BE BALANCED TO PROVIDE A BALANCED LOAD ON EACH PHASE. A COMPLETE RECORD OF ALL SUCH ADJUSTMENTS SHALL BE MADE. FINAL READINGS SHALL BE SUBMITTED TO THE ARCHITECT-ENGINEER FOR RECORDS. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, INSTRUMENTS, GAUGES, METERS, ETC., AS REQUIRED FOR THE COMPLETE CHECKING OF THESE SYSTEMS.

10.2 MECHANISMS OF ALL ELECTRICAL EQUIPMENT SHALL BE CHECKED, ADJUSTED, AND TESTED FOR PROPER OPERATION. ADJUSTABLE PARTS OF ALL LIGHTING FIXTURES AND OTHER ELECTRICAL EQUIPMENT SHALL BE CHECKED, ADJUSTED, AND TESTED AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.

10.3 COMPLETED WIRING SYSTEM SHALL BE FREE FROM OPEN OR SHORTED CIRCUITS. AFTER COMPLETION, THIS CONTRACTOR SHALL PERFORM TESTS FOR INSULATION RESISTANCE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.

10.4 THE CONTRACTOR SHALL MAINTAIN SERVICE AND EQUIPMENT FOR THE TESTING OF ELECTRICAL EQUIPMENT AND APPARATUS UNTIL ALL WORK IS APPROVED AND ACCEPTED BY THE OWNER. A FIRST CLASS VOLTMETER AND AMMETER SHALL BE KEPT AVAILABLE AT ALL TIMES AND THIS CONTRACTOR SHALL PROVIDE SERVICE FOR TEST READINGS WHEN AND AS REQUIRED. ALL TEST READINGS SHALL BE RECORDED ON AN APPROVED FORM AND SUBMITTED TO THE ARCHITECT.

10.5 BEFORE FINAL ACCEPTANCE IS MADE, THIS CONTRACTOR SHALL, AT HIS OWN EXPENSE, FRAME UNDER PLASTIC THE SEQUENCE OF OPERATIONS OF THE SOUND SYSTEM, CONTROLS, FIRE ALARM, ETC., FOR EACH AND EVERY ITEM REQUIRING INSTRUCTIONS. THESE INSTRUCTIONS SHALL BE MOUNTED AS DIRECTED. HE SHALL COVER SAME WITH ARCHITECT AND/OR HIS SELECTED PARTIES, AND SHALL ADJUST ALL APPARATUS AND PLACE SAME IN SATISFACTORY OPERATING SERVICE AS APPROVED BY THE ARCHITECT.

10.6 FINAL OBSERVATION WILL BE MADE UPON WRITTEN REQUEST FROM THE CONTRACTOR AFTER THE PROJECT IS COMPLETE. AT THE TIME OF FINAL OBSERVATION, THE CONTRACTOR SHALL BE PRESENT OR SHALL BE REPRESENTED BY A PERSON OF AUTHORITY. THE CONTRACTOR SHALL DEMONSTRATE, AS DIRECTED BY THE ARCHITECT-ENGINEER, THAT HIS WORK FULLY COMPLIES WITH THE PURPOSE AND INTENT OF THE DRAWINGS AND SPECIFICATIONS. ALL LABOR, SERVICES, AND ALL INSTRUMENTS OR TOOLS NECESSARY FOR SUCH DEMONSTRATION AND TESTS SHALL BE PROVIDED BY THE CONTRACTOR.

PART 11 - MOTOR CONTROL AND SPECIAL CONNECTIONS

11.1 THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL WIRING, CONDUIT, BOXES, TOGGLE SWITCHES, THERMAL SWITCHES, DISCONNECT SWITCHES, REMOTE PUSH-BUTTON STATIONS NOT INCLUDED IN MAGNETIC STARTERS, ETC., FOR ALL EQUIPMENT REQUIRING ELECTRICAL POWER THAT IS FURNISHED BY OTHER CONTRACTORS AND/OR THE OWNER, AS REQUIRED FOR A COMPLETE AND OPERATABLE SYSTEM. THE ELECTRICAL CONTRACTOR SHALL RECEIVE, INSTALL AND CONNECT ALL MAGNETIC STARTERS AND CONTROLLERS, CAPACITORS, POWER FACTOR CORRECTION DEVICES, TRANSFORMERS, ALARMS, BELLS, HORNS, RELAYS, REMOTE SWITCHES, ETC., FOR EQUIPMENT SUPPLIED BY OTHERS, (I.E. STARTERS, CAPACITORS OR POWER FACTOR CORRECTION DEVICES FOR MECHANICAL EQUIPMENT, ETC.). IN GENERAL ALL MAJOR EQUIPMENT WILL BE SPECIFIED TO BE FACTORY PREWIRED WITH ONLY SERVICE AND INTERLOCKING REQUIRED AT THE SITE BY THE ELECTRICAL CONTRACTOR; HOWEVER HE SHALL CHECK ALL DIVISIONS OF THE SPECIFICATIONS TO VERIFY IF THE EQUIPMENT IS SPECIFIED FACTORY PREWIRED AND IF NOT, THEN IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE THE COMPLETE WIRING OF THE EQUIPMENT IN ACCORDANCE WITH WIRING DIAGRAMS, AND TEMPERATURE CONTROL DRAWINGS PROVIDED BY THE OTHER CONTRACTORS AND/OR THE OWNER, TO THE ELECTRICAL CONTRACTOR. ALL INTERLOCKING OF EQUIPMENT SHALL BE BY THE ELECTRICAL CONTRACTOR.

11.2 ALL CONTROL EQUIPMENT REQUIRING PIPING CONNECTIONS TO AIR, WATER, STEAM, ETC., LINES SUCH AS PNEUMATIC ELECTRICAL RELAYS, REMOTE BULB TEMPERATURE CONTROLS, SOLENOID VALVES, AQUASTATS, PRESSURE CONTROL, ETC., WILL BE FURNISHED AND INSTALLED UNDER "MECHANICAL WORK".

11.3 ALL LINE AND LOW VOLTAGE WIRING, CONDUIT AND CONNECTIONS REQUIRED TO CONTROL EQUIPMENT AND/OR DAMPERS ARE A PART OF THIS SECTION. PROVIDE AND INSTALL LINE OR LOW VOLTAGE WIRING TO ALL DAMPERS AS REQUIRED FOR SYSTEM OPERATION. ALL LOW VOLTAGE WIRING, CONDUIT, CONNECTIONS AND/OR TERMINATIONS ARE BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE WITHIN THE BIDDING DOCUMENTS.

11.4 IT SHALL BE ASSUMED THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE EQUIPMENT TO BE FURNISHED BY THE OTHER CONTRACTORS AND/OR THE OWNER IN CONNECTION WITH THIS WORK AND THAT PROVISIONS FOR SUCH CONNECTIONS AND WORK HAVE BEEN INCLUDED IN THE CONTRACTOR'S PRICE. IN NO CASE WILL EXTRA REMUNERATION BE ALLOWED FOR SUCH WORK.

11.5 CONNECTIONS TO ALL EQUIPMENT HAVE BEEN DESIGNED FOR UNITS AS SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS. IN THE EVENT EQUIPMENT OR CONTROLS DIFFER ON APPROVED MECHANICAL SHOP DRAWINGS, IT SHALL BE THE RESPONSIBILITY OF THE SUPPLYING CONTRACTOR TO COORDINATE ELECTRICAL CONNECTIONS TO THE UNITS AND REIMBURSE ELECTRICAL CONTRACTOR FOR ANY CHANGES IN SYSTEM DESIGN. THESE CHANGES SHALL NOT INVOLVE ADDITIONAL COST TO THE OWNER.

PART 12 - GUARANTEE

12.1 THIS CONTRACTOR, BY THE ACCEPTANCE OF THIS SPECIFICATION AND THE SIGNING OF HIS CONTRACT, ACKNOWLEDGES HIS ACQUAINTANCE WITH THE REQUIREMENTS AND GUARANTEES THAT EVERY PART USED IN CONSTRUCTING THE SYSTEM AS HEREIN DESCRIBED WILL BE OF THE BEST OF ITS RESPECTIVE KIND THAT CAN BE OBTAINED AND WILL BE ERECTED IN A MOST THOROUGH AND SUBSTANTIAL MANNER BY NONE BUT EXPERIENCED WORKMEN.

12.2 HE GUARANTEES THAT ALL CONDUIT AS PROVIDED WITHIN AND BY THIS SPECIFICATION WILL BE FREE FROM ALL OBSTRUCTIONS OF EVERY DESCRIPTION AND WILL BE FREE FROM HOLES OR BROKEN PLACES AND BE WELL BONDED TOGETHER. HE GUARANTEES THAT ALL WIRING AND CONDUIT TO BE USED IN CONSTRUCTION OF THIS PROJECT WILL BE NEW AND UNUSED.

12.3 HE FURTHER GUARANTEES TO HOLD HIMSELF RESPONSIBLE FOR ANY DEFECTS WHICH MAY DEVELOP IN ANY PART OF THE ENTIRE SYSTEM, INCLUDING APPARATUS AND APPLIANCES PROVIDED UNDER THIS SECTION OF THE SPECIFICATION, AND TO REPLACE AND MAKE GOOD WITHOUT COST TO THE OWNER ANY SUCH FAULTY PARTS OF CONSTRUCTION WHICH DEVELOP DEFECTS AT ANY TIME WITHIN ONE YEAR FROM DATE OF FINAL CERTIFICATION OF COMPLETION AND ACCEPTANCE. PROVIDE MANUFACTURER'S ENGINEERING AND TECHNICAL STAFF AT SITE TO ANALYZE AND RECTIFY PROBLEMS THAT DEVELOP DURING GUARANTEE PERIOD IMMEDIATELY. IF PROBLEMS CANNOT BE RECTIFIED IMMEDIATELY TO THE OWNER'S SATISFACTION, ADVISE ARCHITECT IN WRITING, DESCRIBE EFFORTS TO RECTIFY SITUATION, AND PROVIDE ANALYSIS OF CAUSE OF PROBLEM. ARCHITECT WILL THEN SUGGEST COURSE OF ACTION. THE ELECTRICAL CONTRACTOR SHALL REPLACE MATERIAL AND EQUIPMENT THAT REQUIRES EXCESSIVE SERVICE DURING GUARANTEE PERIOD AS DEFINED AND AS DIRECTED BY THE ARCHITECT. THIS GUARANTEE DOES NOT INCLUDE ORDINARY LAMP FAILURE.

12.4 USE OF SYSTEMS PROVIDED UNDER THE SPECIFICATION FOR TEMPORARY SERVICES AND FACILITIES SHALL NOT CONSTITUTE FINAL ACCEPTANCE OF THE WORK NOR BENEFICIAL USE BY THE OWNER, AND SHALL NOT INSTITUTE GUARANTEE PERIOD.

PART 13 - SUPPLEMENTARY CONDITIONS

13.1 SUPPLEMENTARY TO ALL OTHER TERMS OF THE CONTRACT, THIS WORK SHALL BE PERFORMED SUBJECT TO THE FOLLOWING CONDITIONS.

13.2 MATERIALS AND EQUIPMENT INSTALLED ON THIS PROJECT SHALL BE FIRST CLASS IN QUALITY AND SHALL BE NEW AND UNUSED.

13.3 WORKMANSHIP ON THIS PROJECT SHALL BE FIRST CLASS WORK PERFORMED BY THE EXPERIENCED LICENSED MECHANICS OF THE PROPER TRADE.

13.4 WORK UNDER THIS CONTRACT SHALL BE ADEQUATELY PROTECTED AT ALL TIMES. TEMPORARY RACEWAYS SHALL BE KEPT CLOSED AND ALL RACEWAYS SHALL BE INSTALLED CLEAN AND FREE FROM DIRT AND GREASE.

13.5 STORAGE, PARKING, SIGNS, ADVERTISEMENT, FIRES AND SMOKING SHALL CONFORM TO ALL APPLICABLE REGULATIONS AND/OR DIRECTIONS OF THE ARCHITECT.

13.6 MEASUREMENTS ON JOB AND SHOP LAYOUTS REQUIRED FOR INSTALLATION OF WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ACCEPTANCE OF WORK IS SUBJECT TO APPROVAL OF SHOP DRAWINGS BY THE ARCHITECT.

13.7 CONTRACTOR SHALL FURNISH ALL HOISTS, SCAFFOLDS, STAGING, RUNWAYS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS WORK.

13.8 OBTAIN AND PAY FOR ALL REQUIRED ELECTRICAL PERMITS AND LICENSES.

13.9 MAINTAIN LIGHTS AND GUARDS REQUIRED FOR SAFETY.

13.10 REMOVE TEMPORARY SERVICE AFTER USE.

PART 14 - CONTRACT CHANGES

14.1 ALL CHANGES OR DEVIATIONS FROM THE CONTRACT, INCLUDING THOSE FOR EXTRA OR ADDITIONAL WORK, MUST BE SUBMITTED IN WRITING FOR THE APPROVAL OF THE ARCHITECT/ENGINEER. NO VERBAL ORDERS WILL BE RECOGNIZED.

PART 15 - RUBBISH/CLEANUP

15.1 ALL RUBBISH RESULTING FROM THE WORK HEREIN SPECIFIED SHALL BE PERIODICALLY REMOVED BY THIS CONTRACTOR.

15.2 CLEAN ALL ELECTRICAL EQUIPMENT AND MATERIALS OF ALL FOREIGN MATTER (BOTH INSIDE AND OUT). CLEAN ALL LIGHT FIXTURES USING ONLY METHODS AND MATERIALS AS RECOMMENDED BY THE MANUFACTURER.

PART 16 - PROPOSALS

16.1 THE CONTRACTOR SHALL CONSULT THE GENERAL CONDITIONS AND THE PROPOSAL FORM FOR PROPOSALS AND SUBDIVISIONS OF THE WORK REQUIRED.

PART 17 - EXTENT OF WORK

17.1 THE EXTENT OF THE WORK UNDER THIS HEADING OF THE CONTRACT SHALL BE THE FURNISHING OF ALL PLANT, LABOR, MATERIALS, AND EQUIPMENT AS REQUIRED TO COMPLETE WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED UNDER THIS HEADING, AND ALL PLANT, LABOR, MATERIALS AND EQUIPMENT NOT SHOWN ON THE DRAWINGS OR SPECIFIED, BUT NECESSARY TO MAKE INSTALLATION COMPLETE IN ACCORDANCE WITH THE INTENT OF THE CONTRACT, TO PROVIDE FIRST CLASS, COMPLETE, AND OPERATIVE INSTALLATION THROUGHOUT.

PART 18 - TAXES

18.1 CONTRACTOR SHALL INCLUDE ALL APPLICABLE LOCAL, STATE AND FEDERAL TAXES IN HIS BID. CONSULT THE SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS RELATIVE TO ANY AND ALL TAX EXEMPTIONS PERMITTED FOR THIS PROJECT .

END OF SECTION

COMMUNICATION SYSTEMS

PART 1 - GENERAL

1.1 SUMMARY

A. SCOPE: EXTENT OF COMMUNICATIONS SYSTEMS WORK IS INDICATED BY DRAWINGS AND DETAILS, AND AS HEREBY DEFINED TO INCLUDE, BUT NOT BE LIMITED TO TELEPHONE, DATA, AND CCTV (SECURITY CAMERAS) CONDUITS, CABLES, BOXES, JACKS, TERMINALS, AND OTHER ASSOCIATED EQUIPMENT AND HARDWARE, AND CATV CONDUITS, BOXES, TERMINALS, AND OTHER ASSOCIATED EQUIPMENT AND HARDWARE. THERE ARE OBLIGATIONS THAT REST WITH AT LEAST THE GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR, OWNER'S TELECOM VENDOR, AND THE OWNER.
B. PROVIDE SUBMITTALS ON ALL PRODUCTS SPECIFIED WITH THIS SECTION.
C. ALL TELEPHONE, DATA, CATV, AND CCTV CABLING, ASSOCIATED CONDUITS, TERMINATIONS, AND INTERFLOOR SLEEVES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR (EC).
D. ALL TELEPHONE AND DATA RACKS, PATCH PANELS, AND WIRE MANAGEMENT HARDWARE WILL BE FURNISHED AND INSTALLED BY OWNER'S TELECOM VENDOR, UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. ALL TELEPHONE AND DATA JACKS WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. CATV GUEST ROOM TERMINATIONS TO BE DONE BY CONTRACTOR. CONTRACTOR SHALL PROVIDE ALL FINAL CONNECTIONS TO DEVICES AND PROVIDE FINAL TESTING OF CABLES.
E. CATV PATCH PANELS, RACKS, EQUIPMENT, ETC. WILL BE PROVIDED AND INSTALLED BY THE OWNER'S INSTALLERS, UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS.

1.2 QUALITY ASSURANCE

A. CODES AND STANDARDS: CONFORM TO THE FOLLOWING:
  a. NATIONAL ELECTRICAL CODE (NEC): COMPLY WITH APPLICABLE LOCAL CODE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND NEC.
  b. EIA/TIA TSB-40 STANDARD.
  c. EIA/TIA-568B STANDARD.
  d. ALL WIRING SHALL BE INSTALLED USING 'BICSI' CABLING PRACTICES.
  e. THIS INSTALLATION MUST BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL SYSTEM SUPPLIER AND THE GENERAL SPECIFICATIONS CONTAINED HEREIN. CONSULT THE SERVING INSTALLERS TO VERIFY ALL REQUIREMENTS.

PART 2 - PRODUCTS

2.1 TELEPHONE AND DATA SYSTEM

2.1.1 GENERAL CONTRACTOR SHALL PROVIDE TELEPHONE, DATA, INTERNET, CCTV, AND CATV TERMINAL BOARD(S) AS SHOWN ON THE DRAWINGS. BOARD SHALL BE 3/4" FIRE RESISTANT PLYWOOD MOUNTED AND SIZED AS SHOWN ON DRAWING E-5. TERMINAL BOARD TO BE SECURELY MOUNTED ON WALL AND PAINTED WITH TWO COATS OF FIRE RETARDANT NON-CONDUCTIVE PAINT, COLOR AS SELECTED BY ARCHITECT. GENERAL CONTRACTOR TO CONFIRM OWNER'S ROOM NUMBERING SCHEME WHICH IS THEN TO BE USED BY THE ELECTRICAL CONTRACTOR AND OWNER'S TELECOM VENDOR FOR LABELING PURPOSES.

2.1.2 ELECTRICAL CONTRACTOR SHALL PROVIDE:

A. ENTRANCE CONDUIT: THERE SHALL BE PROVIDED A 3" MINIMUM MAIN SERVICE CONDUIT FROM BELOW THE TELEPHONE TERMINAL BOARD TO THE PROPERTY LINE (UNLESS A LARGER SIZE IS NOTED OTHERWISE ON THE DRAWINGS OR REQUIRED BY THE TELEPHONE COMPANY. CONDUIT SIZING AND ROUTING TO BE PER THE REQUIREMENTS OF THE SERVING TELEPHONE COMPANY.
B. OUTLETS: ALL TELEPHONE AND DATA OUTLET BOXES SHALL BE FURNISHED AND INSTALLED WITH 4" SQUARE, MINIMUM 2 1/8" DEEP BOX AND TRIM. ALL TELEPHONE AND DATA OUTLET BOXES TO BE LOCATED AS SPECIFIED ON PRINTS. EACH TELEPHONE, DATA, CCTV, AND CATV OUTLET BOX SHALL BE PROVIDED WITH ONE (1) 3/4" STEEL FLEXIBLE TO NEAREST ACCESSIBLE CORRIDOR CEILING CAVITY. PVC FLEXIBLE CONDUIT MAY BE USED IF ALLOWABLE BY LOCAL CODES. ALL TELEPHONE, DATA, AND CATV BOXES IN ROOMS SHALL BE THEIR OWN BOX AND NOT SHARED WITH ANY ELECTRICAL BOXES. TELEPHONE AND DATA OUTLET BOXES NOT USED SHALL BE PROVIDED WITH BLANK COVER PLATES TO MATCH SWITCH AND RECEPTACLE PLATES.
C. FURNISH AND INSTALL EACH TELEPHONE/DATA OUTLET WITH A TELEPHONE JACK AND A DATA JACK. JACKS SHALL CONSIST OF A “RJ11” (COLORED “WHITE”) SINGLE PORT INSERT FOR TELEPHONE OUTLET AND A “RJ45” (COLORED BLUE) SINGLE PORT “KEYSTONE FORMAT” INSERTS FOR DATA OUTLET. “RJ11” PORT INSERT SHALL BE TO USOC RJ-14 WIRING. “RJ45” PORT “KEYSTONE FORMAT” INSERT SHALL BE UNIVERSAL T568 B WIRING. PROVIDE SINGLE GANG FACEPLATE AND BLANK INSERTS AS REQUIRED.
D. DROPS: EACH TELEPHONE AND DATA OUTLET BOX LOCATION REQUIRES TELEPHONE AND DATA CABLES TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE. TELEPHONE AND DATA CABLES SHALL BE ROUTED TO THE TELEPHONE TERMINAL BOARD OR DATA TERMINAL BOARD AS APPROPRIATE. VERIFY LOCATION AND CONDITIONS OF JOB PRIOR TO ROUGH-IN. THERE ARE SPECIAL REQUIREMENTS FOR THE TELEPHONE CABLES SERVICING THE ELEVATOR CONTROL CABINET AND THE FIRE ALARM CONTROL PANEL AND FOR THE SURVEILLANCE CAMERAS AS INDICATED IN THE ELECTRICAL NOTES ON SHEET E-5.
E. CABLE: TELEPHONE, DATA, AND CCTV CABLE (FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR) SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
  a. TELEPHONE CABLES SHALL BE ROUTED TO THE TELEPHONE TERMINAL BOARD(S), DATA CABLES SHALL BE ROUTED TO THE DATA TERMINAL BOARD(S) AND CATV CABLES SHALL BE ROUTED TO THE CCTV TERMINAL BOARD(S). SEE DRAWING E-5. ALL TERMINATIONS AT MAIN DISTRIBUTING FRAME (MDF) PUNCH-DOWN BLOCKS AND DATA PATCH PANELS TO BE DONE BY OWNER'S TELECOM VENDOR.
  b. ALL TELEPHONE CABLES SHALL BE LEVEL CAT 5E CABLE OR BETTER AND JACKETED IN WHITE. ALL DATA CABLES SHALL BE LEVEL CAT5E CABLE OR BETTER AND JACKETED IN BLUE. CCTV DATA CABLES TO BE LEVEL CAT-5E OR BETTER AND JACKETED IN YELLOW. VERIFY EXACT TYPE OF CABLE WITH OWNER PRIOR TO INSTALLATION. CABLES SHALL BE PLENUM RATED IF ROUTED IN AIR PLENUM CEILING VOIDS.
  c. CABLES SHALL BE CONTINUOUS WITHOUT SPLICES OR DAMAGE FROM OUTLET TO APPROPRIATE TERMINAL BOARD IN UTILITY ROOM 240.
  d. EACH CABLE TO UNDERGO SYSTEMS TESTING BY CONTRACTOR. ELECTRICAL CONTRACTOR TO REPLACE CABLES DETERMINED TO BE UNACCEPTABLE.
  e. ALL CABLES SHALL BE IDENTIFIED ON BOTH ENDS WITH PERMANENT, DURABLE, LEGIBLE, LABELS. LABEL CABLES AT CEILING OF UTILTIY ROOM 240 WHERE CABLES ENTER ROOM. LEAVE 25' OF EXTRA CABLE COILED AND PROTECTED FROM DAMAGE AT THE APPROPRIATE TERMINAL BOARD. LABEL THIS SLACK WITH OWNER'S NUMBERING SYSTEM. AT EACH OUTLET, LEAVE 18" OF SLACK CABLE AT CONNECTION TO DEVICE. LABEL THIS SLACK WITH OWNER'S NUMBERING SYSTEM ON ALL OUTLETS.
F. DO NOT ROUTE TELEPHONE OR DATA CABLE BESIDE ELECTRICAL POWER CONDUITS. LOCATE AS FAR AWAY AS REASONABLY POSSIBLE. MINIMUM REQUIREMENTS ARE 5" FROM LIGHTING FIXTURES AND 4" FROM ELECTRICAL CONDUITS. ANYTIME CABLES ARE REQUIRED TO CROSS ELECTRICAL CONDUITS, CABLES SHALL BE ROUTED AT 90 DEGREE ANGLE ONLY TO CONDUITS. MAXIMUM RUN FOR ANY CABLE FROM TELEPHONE OR DATA OUTLET TO TERMINAL BOARD SHALL BE 295'. CONDUIT RUNS SHALL NOT EXCEED 100' BETWEEN PULL BOXES. NO MORE THAN (2) 90 DEGREE BENDS SHALL BE ALLOWED BETWEEN PULL BOXES.
  a. PROVIDE DOUBLE DUPLEX RECEPTACLE ON SEPARATE 20 AMP CIRCUITS BENEATH EACH TELEPHONE TERMINAL BOARD, DATA TERMINAL BOARD, AND CATV TERMINAL BOARD LOCATION.
  b. THERE IS TO BE A #6 AWG STRANDED COPPER WIRE EXTENDED FROM THE GROUND BUS IN THE ELECTRICAL PANEL BOARD TO A COMMON GROUNDING BLOCK ON THE TERMINAL BOARD.

2.1.3 OWNER'S TELECOM VENDOR SHALL PROVIDE:

A. FURNISH AND INSTALL NECESSARY WALL MOUNTED DATA RELAY RACK, PATCH JACKS, AND WIRE MANAGEMENT HARDWARE WITHIN THE RACK TO TERMINATE THE DATA “DROP” RUNNING CABLES. PROVIDE AND INSTALL THE BACKBOARDS, WIRE MANAGEMENT HARDWARE, AND TERMINAL BLOCKS TO TERMINATE THE TELEPHONE “DROP” RUNNING CABLES FOR USE AS A MAIN DISTRIBUTING FRAME (MDF) FOR THE HOUSE WIRING AND PBX CABLING.
B. FURNISH AND INSTALL APPROPRIATE CABLE ENDS ON CCTV DROPS AT EACH CAMERA LOCATION.
C. ALL WIRING SHALL BE INSTALLED USING TIA/EIA AND 'BICS' CABLING PRACTICES. WHERE CONNECTIONS OCCUR, UNTWISTING OF CABLE SHALL BE WITHIN EIA/TIA TSB-40 STANDARD. FINAL CONNECTIONS OF CABLES AT PATCH PANELS, THE MDF AND FIELD DEVICES WILL BE BY THE OWNER'S TELECOM VENDOR.
D. OWNER'S TELECOM TO ROUTE AND SECURE ALL TELEPHONE AND DATA “DROPS” TO THE WALL OR OTHER SUPPORTING STRUCTURE IN THE UTILITY ROOM 240 SO AS TO FORM THEM INTO THE APPROPRIATE TERMINAL BOARD AND DESTINATION TERMINALS.
E. OWNER'S TELECOM VENDOR TO DRESS IN AND TERMINATE ALL TELEPHONE AND DATA CABLES USING THE APPROPRIATE WIRING STANDARDS. ALL TERMINATIONS TO BE LABELED WITH THE OWNER'S APPROVED NUMBERING FORMAT.
F. ONCE TERMINATIONS ARE COMPLETED, PERFORM CONTINUITY TESTS ON ALL VOICE AND DATA WIRING. FAULT ISOLATION WILL BE UNDERTAKEN. NECESSARY REPAIRS TO OWNER'S TELECOM PROVIDER'S WORK PRODUCT WILL BE COMPLETED AS NECESSARY. NO REPAIR OF FAILED WIRING OR CABLES BY OTHERS WILL BE UNDERTAKEN. NO “LAN CERTIFICATION TESTING” OF THE WIRING WILL BE ATTEMPTED.
G. ALL TERMINTATIONS AT THE FRONT DESK FOR TELEPHONE AND INTERNET JACKS WILL BE PROVIDED BY THE OWNER'S TELECOM VENDOR.

2.2 CATV (TELEVISION) OUTLET SYSTEM

2.2.1 ELECTRICAL CONTRACTOR SHALL PROVIDE:

A. ENTRANCE CONDUIT: THERE SHALL BE PROVIDED A 3" MINIMUM MAIN SERVICE CONDUIT FROM BELOW THE CATV TERMINAL BOARD TO THE PROPERTY LINE (UNLESS A LARGER SIZE IS NOTED OTHERWISE ON THE DRAWINGS OR REQUIRED BY THE CATV COMPANY). CONDUIT SIZING AND ROUTING TO BE PER THE REQUIREMENTS OF THE SERVING CATV COMPANY.
B. OUTLETS: ALL CATV OUTLET BOXES SHALL BE INSTALLED WITH 4" SQUARE, MINIMUM 2 1/8" DEEP BOX AND TRIM, WITH SEPARATELY MOUNTED 20 AMP 125 VOLT DUPLEX GROUNDED RECEPTACLE ADJACENT TO CATV OUTLET. EACH CATV OUTLET BOX SHALL BE PROVIDED WITH (1) 3/4" STEEL FLEXIBLE CONDUIT TO NEAREST ACCESSIBLE CORRIDOR CEILING CAVITY. PVC FLEXIBLE CONDUIT MAY BE USED IF ALLOWABLE BY LOCAL CODES. WHITE CATV COVER PLATES AS REQUIRED BY CATV SYSTEM SUPPLIER, PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. ALL CATV OUTLET BOXES TO BE LOCATED AS SPECIFIED ON PLAN. CATV OUTLET BOXES NOT USED SHALL BE PROVIDED WITH BLANK COVER PLATES TO MATCH SWITCH AND RECEPTACLE PLATES.
C. CABLE: CATV CABLE (FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR) SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
  a. CATV CABLES SHALL BE ROUTED TO THE CATV TERMINAL BOARD(S). SEE DRAWING E-5. ALL TERMINATIONS AT MAIN DISTRIBUTING FRAME (MDF) PUNCH-DOWN BLOCKS AND DATA PATCH PANELS TO BE DONE BY OWNER'S TELECOM VENDOR.
  b. ALL CATV CABLES SHALL BE RG-6/U CABLE OR BETTER AND JACKETED IN BLACK. VERIFY EXACT TYPE OF CABLE WITH OWNER PRIOR TO INSTALLATION. CABLES SHALL BE PLENUM RATED IF ROUTED IN AIR PLENUM CEILING VOIDS.
  c. CABLES SHALL BE CONTINUOUS WITHOUT SPLICES OR DAMAGE FROM OUTLET TO APPROPRIATE TERMINAL BOARD IN UTILITY ROOM 240.
  d. EACH CABLE TO UNDERGO SYSTEMS TESTING BY OWNER'S TELECOM VENDOR. ELECTRICAL CONTRACTOR TO REPLACE CABLES DETERMINED TO BE UNACCEPTABLE.
  e. ALL CABLES SHALL BE IDENTIFIED ON BOTH ENDS WITH PERMANENT, DURABLE, LEGIBLE, LABELS. LABEL CABLES AT CEILING OF UTILTIY ROOM 240 WHERE CABLES ENTER ROOM. LEAVE 25' OF EXTRA CABLE COILED AND PROTECTED FROM DAMAGE AT THE APPROPRIATE TERMINAL BOARD. LABEL THIS SLACK WITH OWNER'S NUMBERING SYSTEM. AT EACH OUTLET, LEAVE 18" OF SLACK CABLE AT CONNECTION TO DEVICE. LABEL THIS SLACK WITH OWNER'S NUMBERING SYSTEM ON ALL OUTLETS.

2.2.2 OWNER'S TELECOM VENDOR SHALL PROVIDE:

A. FURNISH AND INSTALL NECESSARY WALL MOUNTED DATA RELAY RACK, PATCH JACKS, AND WIRE MANAGEMENT HARDWARE WITHIN THE RACK TO TERMINATE THE DATA “DROP” RUNNING CABLES. PROVIDE AND INSTALL THE BACKBOARDS, WIRE MANAGEMENT HARDWARE, AND TERMINAL BLOCKS TO TERMINATE THE CATV “DROP” RUNNING CABLES FOR USE AS A MAIN DISTRIBUTING FRAME (MDF) FOR THE HOUSE WIRING AND PBX CABLING.
B. ALL WIRING SHALL BE INSTALLED USING TIA/EIA AND 'BICS' CABLING PRACTICES. WHERE CONNECTIONS OCCUR, UNTWISTING OF CABLE SHALL BE WITHIN EIA/TIA TSB-40 STANDARD. FINAL CONNECTIONS OF CABLES AT PATCH PANELS, THE MDF AND FIELD DEVICES WILL BE BY THE OWNER'S TELECOM VENDOR.
C. OWNER'S TELECOM VENDOR TO ROUTE AND SECURE ALL TELEPHONE AND DATA “DROPS” TO THE WALL OR OTHER SUPPORTING STRUCTURE IN THE UTILITY ROOM 240 SO AS TO FORM THEM INTO THE APPROPRIATE TERMINAL BOARD AND DESTINATION TERMINALS.
D. OWNER'S TELECOM VENDOR TO DRESS IN AND TERMINATE ALL CATV CABLES USING THE APPROPRIATE WIRING STANDARDS. ALL TERMINATIONS TO BE LABELED WITH THE OWNER'S APPROVED NUMBERING FORMAT.
E. ONCE TERMINATIONS ARE COMPLETED, PERFORM CONTINUITY TESTS ON ALL VOICE AND DATA WIRING. FAULT ISOLATION WILL BE UNDERTAKEN. NECESSARY REPAIRS TO OWNER'S TELECOM PROVIDER'S WORK PRODUCT WILL BE COMPLETED AS NECESSARY. NO REPAIR OF FAILED WIRING OR CABLES BY OTHERS WILL BE UNDERTAKEN. NO “LAN CERTIFICATION TESTING” OF THE WIRING WILL BE ATTEMPTED.
F. PROVIDE AND INSTALL EACH F81, 3GHZ STYLE JACK WITH BLUE BARREL.

PART 3 - EXECUTION

3.1 PROVIDE AND INSTALL PULL BOXES AT ALL LOCATIONS AS REQUIRED BY NEC AND THE COMMUNICATION SYSTEMS SYSTEM SUPPLIER.

3.2 PROVIDE AND INSTALL CONDUIT SLEEVES THRU FLOORS AND WALLS AS REQUIRED FOR CABLE INSTALLATION.

3.3 ALL CONDUIT ENDS SHALL BE EQUIPPED WITH NON-METALLIC INSULATED BUSHINGS.

3.4 TERMINATE CONDUIT RUNS TO/FROM THE ASSOCIATED TELEPHONE, DATA, OR CATV BACKBOARD IN A CLOSET OR DESIGNATED SPACE AT THE TOP OR BOTTOM OF THE BACKBOARD. CONDUITS SHALL ENTER CLOSETS NEXT TO THE WALL AND BE TERMINATED AND BUSHED 6” ABOVE OR BELOW THE APPROPRIATE BACKBOARD.

3.5 WHERE DRILLING IS NECESSARY FOR VERTICAL CONDUITS, LOCATE HOLES SO AS NOT TO AFFECT STRUCTURAL SECTIONS SUCH AS RIBS OR BEAMS.

3.6 ALL EMPTY CONDUITS LOCATED IN EQUIPMENT CLOSETS OR ON BACKBOARDS SHALL BE SEALED WITH A STANDARD NON-HARDENING DUCT SEAL COMPOUND TO PREVENT THE ENTRANCE OF MOISTURE AND GASES AND TO MEET FIRE RESISTANCE REQUIREMENTS.

3.7 CONDUIT RUNS SHALL CONTAIN NO MORE THAN FOUR QUARTER TURNS (45 DEGREE BENDS) BETWEEN PULL BOXES/BACKBOARDS.

3.8 ALL TELEPHONE, DATA, CCTV, AND CATV CABLE INSTALLATION SHALL BE PROVIDED WITH “J” HOOKS LOCATED A MAXIMUM OF 5'0” ON CENTER FROM DEVICE LOCATION TO THE RESPECTIVE TERMINAL BOARD.

3.9 CONTRACTOR TO PROVIDE (1) ONE 3” EMPTY CONDUIT WITH PULL STRING FROM EACH CORRIDOR TO THE SECOND FLOOR STORAGE ROOM FOR FUTURE USE.

END OF SECTION

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