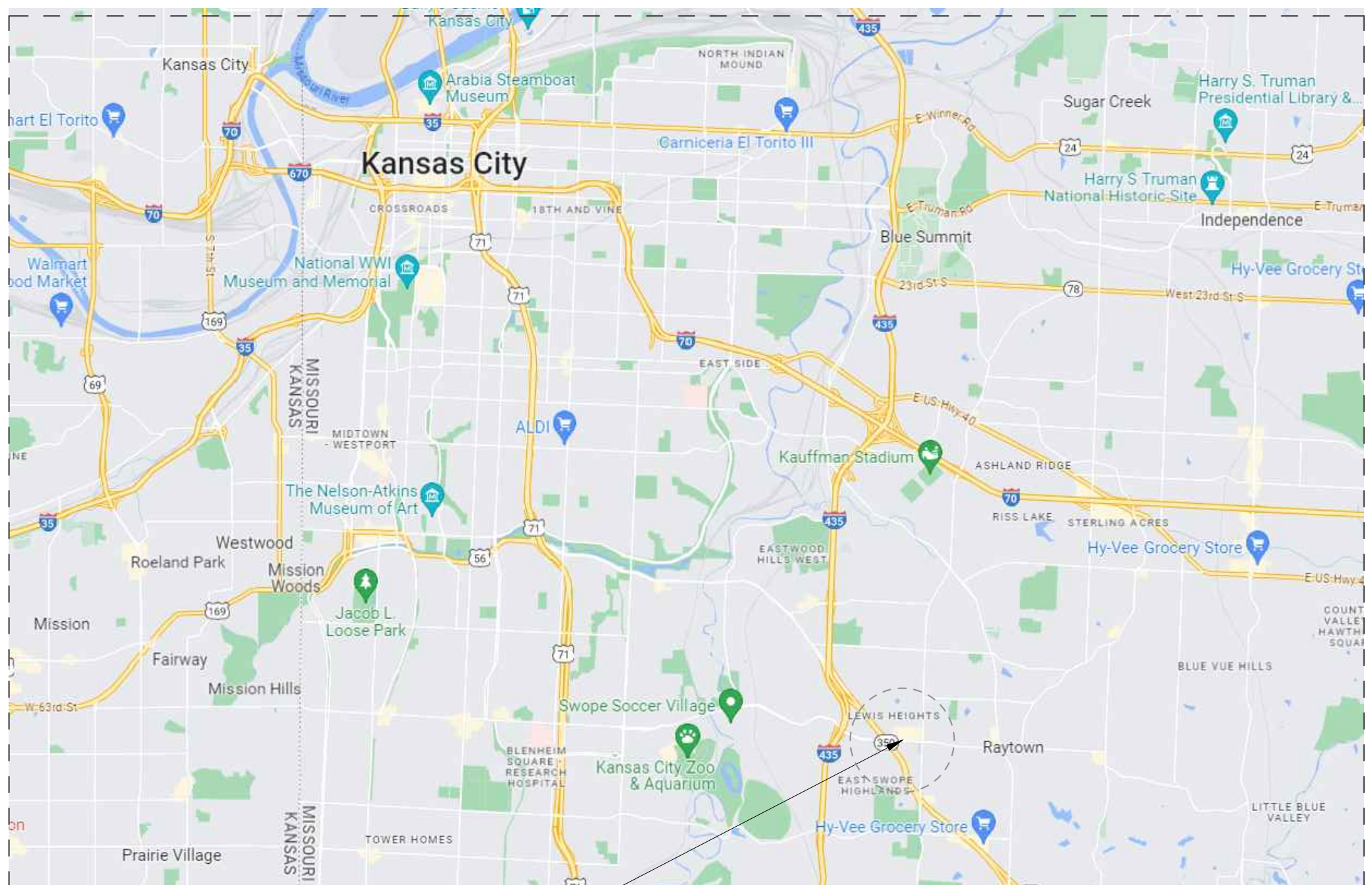
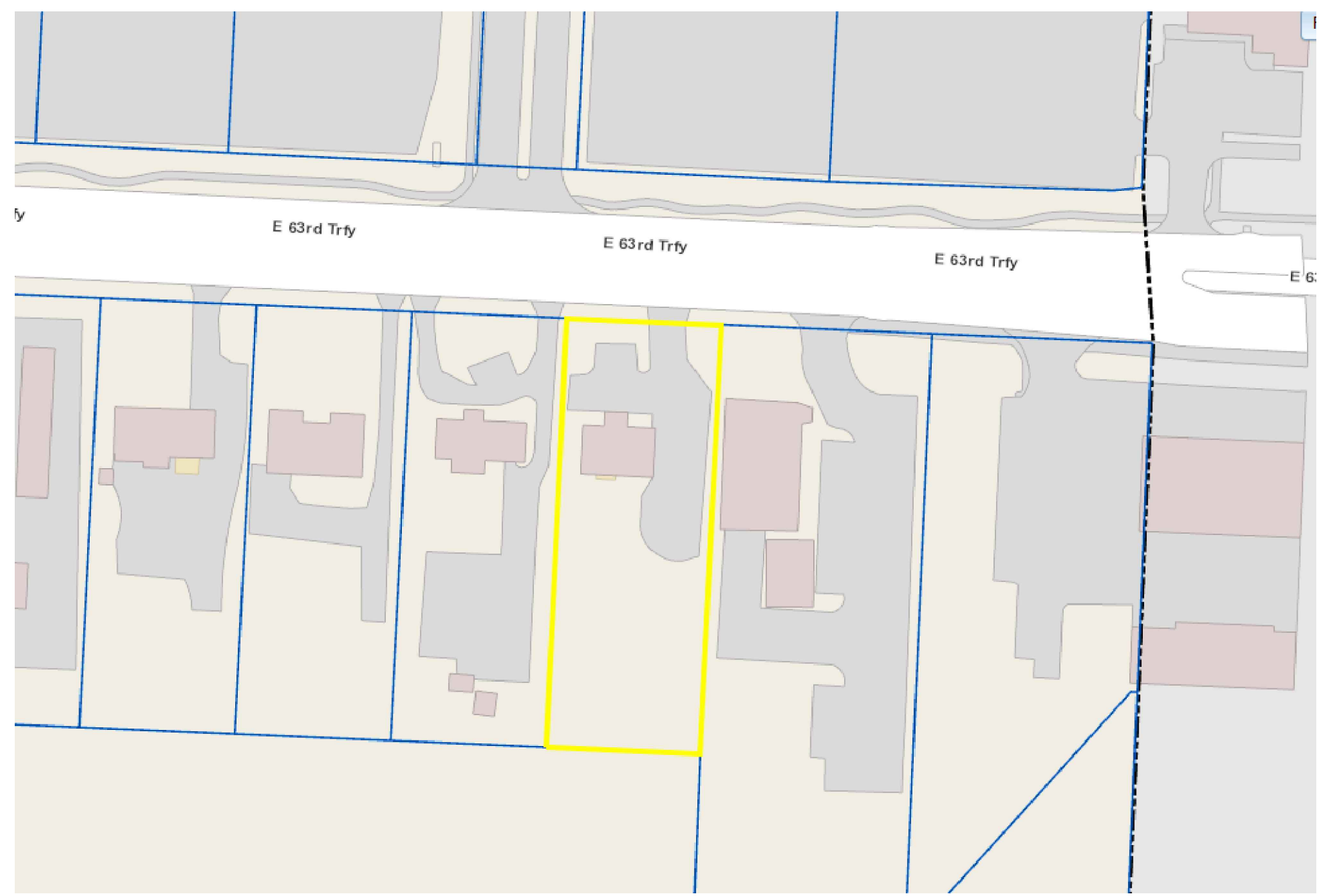


SHEET INDEX

SHEET NUMBER	SHEET NAME
COVER	
UL100	UL Listings - L501
UL101	UL Listings - U305
UL102	UL Listings - U356
SP100	SITE PLAN
ARCHITECTURAL	
A000	CODE ANALYSIS
A100	BASEMENT FLOOR PLAN
A101	FIRST FLOOR PLAN
A102	SECOND FLOOR PLAN
A103	ROOF PLAN
A104-107	STRUCTURAL FRAMING PLANS
A401	DETAILS
A600	SCHEDULES
MECH & PLUMBING SCHED.	
MP300	MECH & PLUMBING SCHED.
MPE400	PENETRATION DETAILS
M200	MECH. PLANS
M201	MECH. PLANS
P200	PLUMB. PLANS
P201	PLUMB. PLANS
P202	DOMESTIC WATER PLANS
P203	DOMESTIC WATER PLANS
E200	ELECT. PLANS
P201	ELECT. PLANS
P300	ELECT. SCHED.
STRUCTURAL SPECS	
S001	STRUCTURAL SPECS
STRUCTURAL DRAWINGS	
S100	STRUCTURAL DRAWINGS
SITE SURVEY	
SITE UTILITY PLAN	
C1.0	SITE UTILITY PLAN



SITE



SITE MAP



REVIEWED FOR CODE COMPLIANCE
 City Planning & Development
 Development Services
 City of Kansas City, Missouri
 Jeff Lee, P.E., M.C.P.
 Building Official
 Date: 07/24/2024 By: jlee

Case Number CRBC-2023-40303

PROJECT CODE ANALYSIS NOTES:

ANY FIRE WALLS, FIRE PARTITIONS, SMOKE BARRIERS REQUIRED BY BUILDING CODE SHALL BE CLEARLY LABELED.

IBC 420.2 SEPARATION WALLS: WALLS SEPARATING DWELLING UNITS IN THE SAME BUILDING, WALLS SEPARATING SLEEPING UNITS IN THE SAME BUILDING AND WALLS SEPARATING DWELLING OR SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED OF FIRE PARTITIONS IN ACCORDANCE WITH SECTION 708.

IBC 420.3 HORIZONTAL SEPARATION: FLOOR ASSEMBLIES SEPARATING DWELLING UNITS IN THE SAME BUILDINGS, FLOOR ASSEMBLIES SEPARATING SLEEPING UNITS IN THE SAME BUILDING AND FLOOR ASSEMBLIES SEPARATING DWELLING OR SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED AS HORIZONTAL ASSEMBLIES IN ACCORDANCE WITH SECTION 711.

SPRINKLER SYSTEM:
 13R SYSTEM - DEFERRED SUBMITTAL

BUILDING CODES:

- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL EXISTING BUILDING CODE
- 2018 INTERNATIONAL FIRE CODE
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 UNIFORM PLUMBING CODE
- 2018 INTERNATIONAL FUEL GAS CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2021 INTERNATIONAL ENERGY CONSERVATION CODE
- 2009 ANSI A117.1 ACCESSIBILITY

BUILDING DATA:

OCCUPANCY TYPE: RESIDENTIAL - R-4 - Condition 1
 TYPE OF CONSTRUCTION: V-B
 SQUARE FOOTAGE FIRST FLOOR (INCLUDING STRS): 1304 SF
 SQUARE FOOTAGE 2ND FLOOR (EXCLUDING STRS): 767 SF
 SQUARE FOOTAGE GARAGE: 0 SF
 SQUARE FOOTAGE (FINISHED BSMT INCLUDING STRS): 1220 SF
 FRONT PORCH: 155 SF
 TOTAL BUILDING HEIGHT: 23'-2"
 IRC 2018 TABLE N1102.1.2 INSULATION & FENESTRATION REQ'S:
 CLIMATE ZONE: 4A

ENERGY CONSERVATION - IECC 2021
 COMPLIANCE METHOD: PERSCRIPTIVE METHOD

ADDITIONAL EFFICIENCY PACKAGE OPTION: MORE EFFICIENT DUCT THERMAL DISTRIBUTION OPTION - 100% OF DUCT THERMAL DISTRIBUTION SYSTEM LOCATED IN CONDITIONED SPACE.

UPON INSTALLATION OF INSULATION OF BUILDING, CONTRACTOR IS TO PROVIDE A PERMANENT CERTIFICATION OF THERMAL ENVELOPE VALUES FOR INSPECTIONS AND TO BE KEPT IN THE RESIDENCE. CERTIFICATE MUST INCLUDE VALUES LISTED BELOW*:

ROOF/CEILING	MIN. R-60**
FLOOR	MIN. R-19
FRAME WALL	MIN. R-30 (OR R-20 + R-5c)
FLOOR OVER UNHEATED CRAWL SPACE	MIN. R-30
BASEMENT FOUNDATION WALL	MIN. R-15 (INTERIOR) OR R-13 (CAVITY)
FENESTRATION	MIN. SHGC OF 0.40; MIN. U-FACTOR OF 0.32

*R-VALUES INDICATED MUST BE OBTAINED BY THE INSULATION MATERIAL USED NOT BY THE TOTAL SYSTEM.

**OPTIONAL ALTERNATE TO USE R-49 IF INSULATION REMAINS FULL DEPTH TO EDGE OF SILL PLATES AT EXTERIOR WALLS. REQUIRES RAISED HEEL TRUSS TO ACCOMMODATE.

INSTALL MANUFACTURED EAVE BAFFLES ADJACENT TO SOFFIT AND EAVE VENTS. MAINTAIN NET FREE AREA EQUAL TO VENT AREA. EXTEND BAFFLE ABOVE ATTIC INSULATION.

INSTALL A CONTINUOUS AIR BARRIER AT BUILDING ENVELOPE. USE TYVEK HOUSE WRAP WITH R-30 CAVITY INSULATION, OR HUBER ZIP SHEATHING FOR R-20 CAVITY + R-5 CONTINUOUS INSULATION/SHEATHING. AIR SEAL JOINTS PER MANUFACTURER.

AIR SEAL SILL PLATE TO FOUNDATION AND TOP PLATE OF EXTERIOR WALLS WITH EXTERIOR GRADE FOAM SPRAY INSULATION OR CAULKING.

COVER CRAWLSPACE EXPOSED EARTH WITH CLASS I VAPOR BARRIER.

RECESSED LIGHT FIXTURES IN BUILDING ENVELOPE TO BE AIR SEALED.

AIR SEAL ANY HOLE CREATED FOR PLUMBING OR ELECTRICAL LINES.

UPON COMPLETION OF AIR SEALING OF BUILDING COMPONENTS, CONTRACT TO PROVIDE AIR SEALING TESTING. MAXIMUM AIR LEAKAGE SHALL NOT EXCEED 5.0 AIR CHANGES PER HOUR OR 0.28 CFM PER SF. TESTING NOT REQUIRED FOR ADDITIONS TO EXISTING BUILDINGS.

GENERAL PROJECT NOTES:

GENERAL CONTRACTOR ASSUMES ALL RESPONSIBILITY IN ADHERING TO PRODUCT SPECIFICATIONS, PROPER INSTALLATIONS, MATERIAL APPLICATION MEANS & METHODS.

GENERAL CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND MANAGING INSPECTIONS IN ACCORDANCE WITH LOCAL MANDATE.

GENERAL CONTRACTOR ASSUMES RESPONSIBILITY FOR EGRESS WINDOWS ADHERING TO LOCAL ADOPTED BUILDING CODE AND MUNICIPAL CODE.

GENERAL CONTRACTOR WILL CONTACT ARCHITECT REGARDING DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS.

Existing occupancy: RESIDENTIAL		Proposed occupancy: RESIDENTIAL	
Year building was constructed: 1953		Number of stories: 3 Height in feet: 24'	
Type of construction: VB		Area per floor: 1300 SF	
Percentage of open perimeter increase: 100 %		Completely suppressed: Yes ___ No <input checked="" type="checkbox"/>	
Compartmentation: Yes ___ No <input checked="" type="checkbox"/>		Corridor wall rating: 1HR	
Fire-resistance rating of vertical opening enclosures: NONE		Required door closers: Yes ___ No <input checked="" type="checkbox"/>	
Type of HVAC system: CENTRAL serving number of floors: 2		Automatic fire detection: Yes <input checked="" type="checkbox"/> No ___	
Fire alarm system: Yes <input checked="" type="checkbox"/> No ___		Type and location: _____	
Smoke control: Yes ___ No <input checked="" type="checkbox"/>		Type: _____	
Adequate exit routes: Yes <input checked="" type="checkbox"/> No ___		Dead ends: Yes ___ No <input checked="" type="checkbox"/>	
Maximum exit access travel distance: 64' - 2"		Elevator controls: Yes ___ No <input checked="" type="checkbox"/>	
Means of egress emergency lighting: Yes <input checked="" type="checkbox"/> No ___		Mixed occupancies: Yes ___ No <input checked="" type="checkbox"/>	
SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)
3412.6.1 Building Height	1.28	1.28	1.28
3412.6.2 Building Area	9.125	9.125	9.125
3412.6.3 Compartmentation	22	22	22
3412.6.4 Tenant and Dwelling Unit Separations	0	0	0
3412.6.5 Corridor Walls	0	0	0
3412.6.6 Vertical Openings	2	2	2
3412.6.7 HVAC Systems	0	0	0
3412.6.8 Automatic Fire Detection	2	2	2
3412.6.9 Fire Alarm Systems	0	0	0
3412.6.10 Smoke Control	****	0	0
3412.6.11 Means of Egress Capacity	****	0	0
3412.6.12 Dead Ends	****	2	2
3412.6.13 Maximum Exit Access Travel Distance	****	13.7	13.7
3412.6.14 Elevator Control	****	-2	-2
3412.6.15 Means of Egress Emergency Lighting	****	4	4
3412.6.16 Mixed Occupancies	0	0	0
3412.6.17 Automatic Sprinklers	-6	-3	-6
3412.6.18 Standpipes	0	0	0
3412.6.19 Incidental Use	0	0	0
Building score — total value	30.405	52.895	49.895

63RD ST. PROPERTIES: HALFWAY HOUSE
 8705 EAST 63RD TRFWY
 KANSAS CITY, MO 64133



JOB NO.: 23097
 DATE: 09/27/2023
 REVISIONS:
 2 addendum 2 - 2024/04/22

DESIGNED BY:
 DRAWN BY:
 CHECKED BY:
 SHEET NO.

COVER SHEET
G000



Design/System/Constructor/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, systems, 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 specific concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

EXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

EXUV7 - Fire Resistance Ratings - CANULC 5101 Certified for Canada
 See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States
 See Criteria and Allowable Variations

See General Information for Fire Resistance Ratings - CANULC 5101 Certified for Canada
 See Criteria and Allowable Variations

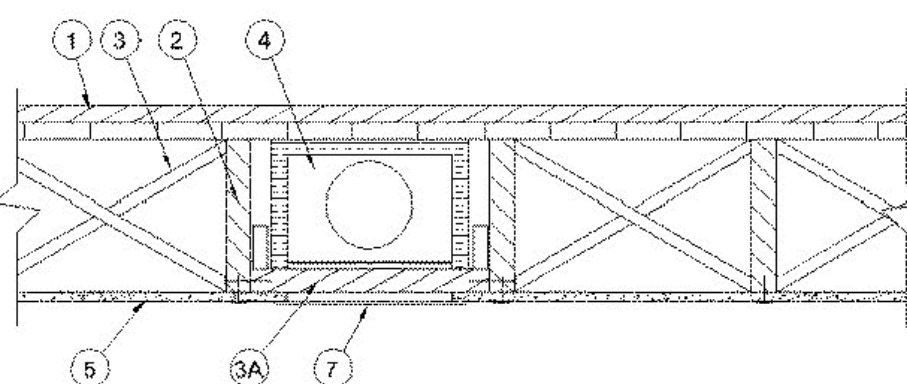
Design No. L501

February 8, 2024

Unrestrained Assembly Rating — 1 Hr.

Finish Rating — See Items 5 and 5A)
 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 [UL-CP-800-002](#).

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Flooring Systems — The flooring system shall consist of one of the following:

System No. 1
 Subflooring — Min 1 1/2 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered, secured as described in System No. 1.
 Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.
 Finish Flooring — Min 1/4 in. T & G lumber installed perpendicular to joists, or min 19/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

System No. 2
 Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered, secured as described in System No. 1.
 Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
 Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding minimum thickness of floor topping over floor mat.
 GRASSWOX L L C — SC Types

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. having a min compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
 UNITED STATES GYPSUM CO — Type C, SD, LRK, HSLK

LATICRETE SUPERCAP L C — Types LRK, HSLK
 USG MEXICO S A DE C V — Types LRK, HSLK, CSD

System No. 3
 Subflooring — Min 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered, secured as described in System No. 1.
 Floor Mat Materials* — (Optional) — Floor mat material floor 5/8 in. (2 mm) thick adhered to subfloor with Hucker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of floor topping mixture. Floor topping thickness a min 1 in. over the floor mat.
 HACKER INDUSTRIES INC — Type Hacker Sound-Mat

Alternate Floor Mat Materials* — (Optional) — Floor mat material nominal 1/4 in. (6 mm) thick adhered to subfloor with Hucker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.
 HACKER INDUSTRIES INC — Type Hacker Sound-Mat II

Alternate Floor Mat Materials* — (Optional) — Floor mat material nominal 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm).
 HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials* — (Optional) — Floor mat material nominal 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm).
 HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250, Quiet Quil 55/025

Alternate Floor Mat Materials* — (Optional) — Floor mat material nominal 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm)
 HACKER INDUSTRIES INC — FIRM-FILL SCM 400, Quiet Quil 60/040

Alternate Floor Mat Materials* — (Optional) — Floor mat material nominal 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm).
 HACKER INDUSTRIES INC — Type FIRM-FILL SCM 750, Quiet Quil 65/075

Metal Lath (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hucker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a min 1-1/4 in. over the floor mat.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.
 HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radant

System No. 4
 Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered, secured as described in System No. 1.
 Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
 Finish Flooring — Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of performed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.
 ELASTIZEL CORP OF AMERICA — Type FF

System No. 5
 Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered, secured as described in System No. 1.
 Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
 Finish Flooring — Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.2 cu feet of performed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.
 AERX INDUSTRIES — Floor Topping Mixture

System No. 6
 Deleted.

System No. 7
 Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered, secured as described in System No. 1.
 Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Mixture shall consist of 5 to 8 gal of water to 80 lbs of floor topping mixture to 2.1 cu ft of sand.
 ULTRA QUIET FLOORS — UQF-A, UQF-Super Blend, UQF-Plus 200

System No. 8
 Subflooring — Min 15/32 in. wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered, secured as described in System No. 1.
 Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
 Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
 MAXXON CORP — Type Maxxon Standard and Maxxon High Strength

Finish Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
 MAXXON CORP — Type Encapsulated Sound Mat.

Floor Mat Reinforcement* — (Optional) — Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.
 Metal Lath — (Optional) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material.
 Floor Glass Reinforcement* — (Optional, Not Shown) — 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs/sq yd loose laid over the floor mat material.

System No. 9
 Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered, secured as described in System No. 1.
 Finish Floor — Mineral and Fiber Board* — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.
 HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 10
 Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered, secured as described in System No. 1.
 Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
 Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
 FORMULATED MATERIALS LLC — Types FR-25, FR-30, and StEMx.

Alternate Floor Mat Materials* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. or 1 in. thick for 19/32 or 15/32 in. thick wood structural panels respectively.
 ARCOSEA SPECIALTY MATERIALS — AccuCrete® Types NexGen, Green Prime, Prime and ProFloor, AccuRadiant®, AccuLevel® Types G40, G50 and SD30

System No. 11
 Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered, secured as described in System No. 1.
 Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
 Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
 FORMULATED MATERIALS LLC — Types FR-25, FR-30, and StEMx.

Alternate Floor Mat Materials* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
 FORMULATED MATERIALS LLC — Types M1, M2, M3, Elve, Duo, R1, and R2.

System No. 12
 Deleted.

System No. 13
 Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered, secured as described in System No. 1.
 Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.
 Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOQ) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).
 Floor Mat Materials* — (Optional, Not Shown) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding minimum thickness of floor topping over each floor mat material.
 KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 55/025 MT and Quiet Quil 55/025 N MT

Alternate Floor Mat Materials* — (Optional) — Floor mat material nominal 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
 KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 60/040 and Quiet Quil 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material nominal 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
 KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 65/075, Quiet Quil 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material nominal 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
 KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 52/013 and Quiet Quil 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in. over the floor mat.
 KEENE BUILDING PRODUCTS CO INC — Quiet Quil 55/025 MT and Quiet Quil 55/025 N MT

System No. 14
 Subflooring — Min 2x12 in. thick 18G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the joists with end joints staggered, secured as described in System No. 1.
 Gypsum Board* — One layer of nom 5/8 in. thick, 4 ft wide gypsum board installed with long dimension perpendicular to joists. Gypsum board secured with 1 in. long No. 6 Type W bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.
 GEORGIA-PACIFIC GYPSUM L L C — Type DS

Floor Mat Materials* — (As an alternate to the single layer gypsum board) — Floor mat material loose laid over the subfloor.
 MAXXON CORP — Type Encapsulated Sound Mat.

Gypsum Board* — (For use when floor mat is used) Two layers of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type G bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the subfloor.
 GEORGIA-PACIFIC GYPSUM L L C — Type DS

System No. 15
 Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered, secured as described in System No. 1.
 Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture for 19/32 in. thick wood structural panels, having a min compressive strength of 2150 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
 MAPLE CORP — Type Planex SL 35

System No. 16
 Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered, secured as described in System No. 1.
 Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
 Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture for 15/32 in. thick wood structural panels respectively, having a min compressive strength of 2100 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
 THE STRONG CO INC — Type Ultralviel

System No. 17
 Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered, secured as described in System No. 1.
 Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
 Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
 PENDABLE LLC — GSI, M3-A, GSI, K2, GSI, CSD and GSI, RH

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
 KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 60/040 and Quiet Quil 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
 KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 60/040 and Quiet Quil 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material nominal 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
 KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 65/075, Quiet Quil 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material nominal 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
 KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 52/013 and Quiet Quil 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in. over the floor mat.
 KEENE BUILDING PRODUCTS CO INC — Quiet Quil 55/025 MT and Quiet Quil 55/025 N MT

System No. 18
 Subflooring — Building Units* — Nom 3/4 in. thick, tongue and grooved boards. Long dimension of boards to be perpendicular to joists with end joints staggered a min of 4 ft. and centered over the joists. Boards secured to joists with 2 in. long self-drilling, self-tapping screws or 2 in. x 0.131 in. Ring Shank nails spaced a max of 12 in. OC in the field with screws/nails located 1 in. from long edge, and max 8 in. OC along the end joints with screws/nails located 1/2 in. from end joint.
 ECTE, INTERNATIONAL INC — Type MegaBoard

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.
 Finish Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
 KEENE BUILDING PRODUCTS CO INC — Quiet Quil 55/025 MT and Quiet Quil 55/025 N MT

System No. 19
 Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered, secured as described in System No. 1.
 Finish Flooring* — Floor Topping Materials* — Min 3/4 in. to 1-1/2 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance with a minimum classified strength of 1500 psi. See Floor- and Roof-Topping Mixtures (CCOQ) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).
 WALLOR INDUSTRIES INC — Type Acousti-Flo, Acousti-Flo CSM, Floor topping thickness depends on products used as follows:
 Acousti-Flo (1/8 in. thick) - Floor topping thickness shall be a minimum of 3/4 in.
 Acousti-Flo (1/4 in. thick) - Floor topping thickness shall be a minimum of 1 in.
 Acousti-Flo (3/8 in. thick) - Floor topping thickness shall be a minimum of 1 in.
 Acousti-Flo (3/4 in. thick) - Floor topping thickness shall be a minimum of 1-1/2 in.
 Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.
 Fiberglass Mesh Reinforcement* — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

System No. 20
 Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered, secured as described in System No. 1.
 Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
 SKA DEUTSCHLAND GMBH — Type SCHOENOX AP Paper Plus

System No. 21
 Subflooring - Building Units* — Nom. 1-1/2 in. thick T & G laminated composite plywood sub-floor panels to be perpendicular to the joists with end joints staggered 4 ft. End joints centered over top chord of trusses. Subfloor panels secured to trusses with construction adhesive and #8 by 3 in. wood screws spaced 12 in. OC in the field and 6 in. OC at the end joints.
 RSP INDUSTRIES INC — SAP Board

System No. 22
 Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered, secured as described in System No. 1.
 Vapor Barrier — (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.
 Vapor Barrier — (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOQ) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).
 Floor Mat Materials* — (Optional, Not Shown) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding minimum thickness of floor topping over each floor mat material.
 KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 55/025 MT and Quiet Quil 55/025 N MT

System No. 23
 Subflooring — Subflooring — Min 2x12 in. thick 18G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the joists with end joints staggered, secured as described in System No. 1.
 Finish Floor - Building Units* — Min 1/2 in. thick magnesium oxide panels installed parallel, perpendicular, or diagonally to trusses with panel edges offset a min of 4 in. between subfloor and magnesium oxide panels. Panels secured to subfloor with construction adhesive and corrosion resistant fasteners, spaced 12 in. OC around the perimeter and in the field of the panel. Fasteners must be placed no closer than 1/2 in. from all panel edges and no closer than 2 in. from panel corners.
 HUBER ENGINEERED WOODS L L C — Type 1/2 in. Square Edge Exoco® Board

System No. 24
 Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.
 Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
 Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
 GRASSWOX L L C — SC Types

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOQ) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).
 RSP INDUSTRIES INC — SAP 10

System No. 25
 Subflooring - Building Units* — Nom. 1-3/16 in. thick T & G laminated composite plywood sub-floor panels to be perpendicular to the joist with end joints staggered 4 ft. End joints centered over top chord of joist. Subfloor panels secured to joist with construction adhesive and #8 by 3-3/8 in. wood screws spaced 12 in. OC in the field and 6 in. OC at the end joints.
 RSP INDUSTRIES INC — SAP 10

2. Wood Joists — Min 2 by 10, spaced 16 in. OC and effectively fireblocked in accordance with local codes.
 3. Cross Bridging — Min 1 by 3 in. or min 2 by 10 solid blocking.
 3A. Horizontal Bridging — Used in lieu of item 3 in same joist bay as ceiling damper (Item 4), when ceiling damper is employed.
 MAPLE CORP — Type Planex SL 35

4. Ceiling Damper* — (Optional) — Max nom area shall be 198 sq in. Max rectangular size shall be 12 in wide by 16-1/2 in. long. Max height of damper shall be 9-3/8 in. Aggregate damper openings shall not exceed 99 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturer's installation instructions provided with the damper. A steel grille (Item 7) shall be installed in accordance with installation instructions.
 AIR BALANCE INC — Type 299 (See Item 5A)

AIR KING VENTILATION PRODUCTS — Series FRAS, Series FRAX, Series FRAXV
 CENTRAL VENTILATION PRODUCTS CO L C — Models C-S/R-H(C)-A, C-RD-H(C)-A
 JAMI ALI NASSER AL-ZADJALI FOR INDUSTRY— Models C-S/R-H(C)-A, C-RD-H(C)-A

BADR & ASFOUR COMPANY FOR ENGINEERING AND METAL INDUSTRIES— Models C-S/R-H(C)-A, C-RD-H(C)-A
 GREENHCK FAN CORP — Model CRD-IW1
 METAL-FAB INC — Models MSCDHC, MRDCHC
 METAL INDUSTRIES INC — Models CD-S/R-HC, CD-S/R-HC-A, CD-RD-HC, CD-RD-HC-A
 NCA MFG INC — Models CD-S/R-HC, CD-S/R-HC-A, CD-RD-HC, CD-RD-HC-A
 BRISK MFG INC — Model BM-50-CRD-S/R-WT
 PRICE INDUSTRIES LTD — Models CD-S/R-HC, CD-RD-HC

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
 KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 52/013 and Quiet Quil 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
 KEENE BUILDING PRODUCTS CO INC — Quiet Quil 55/025 MT and Quiet Quil 55/025 N MT

System No. 18
 Subflooring — Building Units* — Nom 3/4 in. thick, tongue and grooved boards. Long dimension of boards to be perpendicular to joists with end joints staggered a min of 4 ft. and centered over the joists. Boards secured to joists with 2 in. long self-drilling, self-tapping screws or 2 in. x 0.131 in. Ring Shank nails spaced a max of 12 in. OC in the field with screws/nails located 1 in. from long edge, and max 8 in. OC along the end joints with screws/nails located 1/2 in. from end joint.
 ECTE, INTERNATIONAL INC — Type MegaBoard

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.
 Finish Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
 KEENE BUILDING PRODUCTS CO INC — Quiet Quil 55/025 MT and Quiet Quil 55/025 N MT

System No. 19
 Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered, secured as described in System No. 1.
 Finish Flooring* — Floor Topping Materials* — Min 3/4 in. to 1-1/2 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance with a minimum classified strength of 1500 psi. See Floor- and Roof-Topping Mixtures (CCOQ) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).
 WALLOR INDUSTRIES INC — Type Acousti-Flo, Acousti-Flo CSM, Floor topping thickness depends on products used as follows:
 Acousti-Flo (1/8 in. thick) - Floor topping thickness shall be a minimum of 3/4 in.
 Acousti-Flo (1/4 in. thick) - Floor topping thickness shall be a minimum of 1 in.
 Acousti-Flo (3/8 in. thick) - Floor topping thickness shall be a minimum of 1 in.
 Acousti-Flo (3/4 in. thick) - Floor topping thickness shall be a minimum of 1-1/2 in.
 Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.
 Fiberglass Mesh Reinforcement* — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

System No. 20
 Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered, secured as described in System No. 1.
 Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
 SKA DEUTSCHLAND GMBH — Type SCHOENOX AP Paper Plus

System No. 21
 Subflooring - Building Units* — Nom. 1-1/2 in. thick T & G laminated composite plywood sub-floor panels to be perpendicular to the joists with end joints staggered 4 ft. End joints centered over top chord of trusses. Subfloor panels secured to trusses with construction adhesive and #8 by 3 in. wood screws spaced 12 in. OC in the field and 6 in. OC at the end joints.
 RSP INDUSTRIES INC — SAP Board

System No. 22
 Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered, secured as described in System No. 1.
 Vapor Barrier — (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.
 Vapor Barrier — (Optional) - Nom



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.

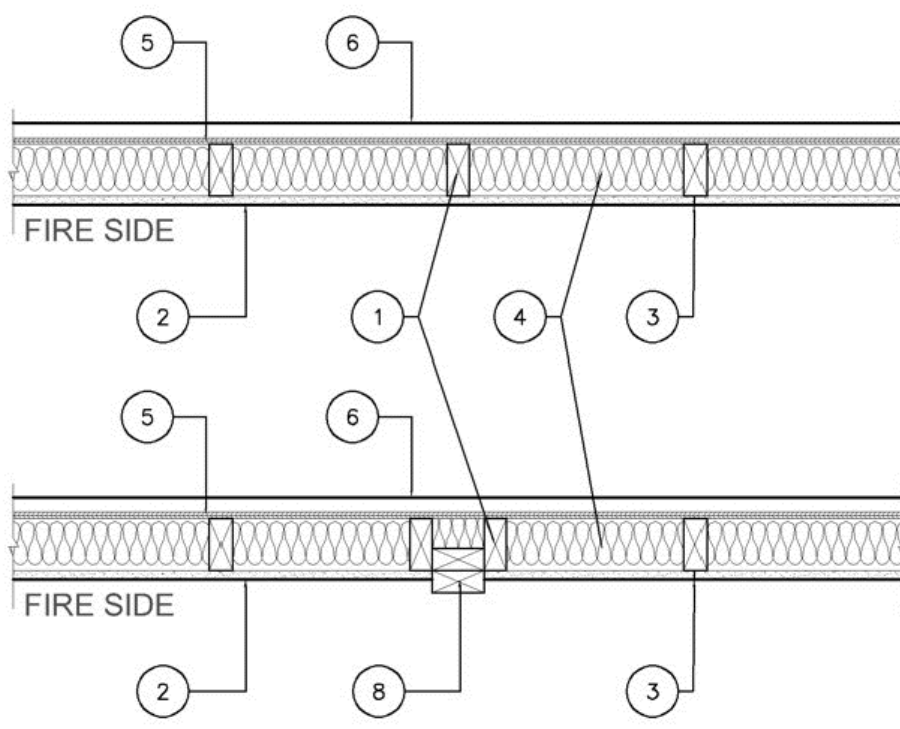
ULV7 - Fire Resistance Ratings - ANS/UL 263 Certified for United States
ULV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
See General Information for Fire Resistance Ratings - ANS/UL 263 Certified for United States
Design Criteria and Allowable Variations
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variations

Design No. U356

January 29, 2024

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 R20V or R20W.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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 70% 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 5 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 5 bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1 5/8 in. long Type 3 bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers.

AMERICAN GYPSUM CO (View Classification) - CNXR14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) - CNXR19374

CABOT MANUFACTURING ULC (View Classification) - CNXR25370

CERTANTEED GYPSUM INC (View Classification) - CNXR83660

GCC INC (View Classification) - CNXR193751

CERTANTEED GYPSUM INC (View Classification) - CNXR18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) - CNXR19371

NATIONAL GYPSUM CO (View Classification) - CNXR19351

PARCO BUILDING PRODUCTS L L C, DBA PARCO GYPSUM (View Classification) - CNXR7094

PANEL REY S A (View Classification) - CNXR21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) - CNXR27562

THAI GYPSUM PRODUCTS PCL (View Classification) - CNXR27517

UNITED STATES GYPSUM CO (View Classification) - CNXR19319

USG BORAL DRYWALL SFZ LLC (View Classification) - CNXR83488

USG MEXICO S A DE C V (View Classification) - CNXR16089

3A. 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* (CNXR) 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.

COC INC

UNITED STATES GYPSUM CO

USG BORAL DRYWALL SFZ LLC

USG MEXICO S A DE C V

28. 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

CERTANTEED GYPSUM INC - Type C, Type X-1, Easy-Lite Type X-2

GEORGIA-PACIFIC GYPSUM L L C - Types X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type-X, Softi-Type X, Type X ComfortGuard Sound Dampening Gypsum Board

PARCO BUILDING PRODUCTS L L C, DBA PARCO GYPSUM - Types PG-11, PG-WRS, PGL

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, Softi-Type X

PARCO BUILDING PRODUCTS L L C, DBA PARCO GYPSUM - Types PG-11, PG-WRS, PGL

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, 0.0215 in. Shank diam and 1/4 in. diam heads, 7 in. OC. NATIONAL GYPSUM CO - Type SRW8

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. PARCO BUILDING PRODUCTS L L C, DBA PARCO 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. CERTANTEED GYPSUM INC - Type SureX.

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. PARCO BUILDING PRODUCTS L L C, DBA PARCO GYPSUM - Type QuietRock S27.

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 edge of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally. CERTANTEED GYPSUM INC - Type LGCSA (finish rating 25 min), Type LGCCA, Type LGFC-C/A, Type LGFC-WD, Type LGLX.

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 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-1, Type FSW-5, Type FSW-G, Type FSK-C, Type FSW-C, Type FSKR-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. CERTANTEED GYPSUM INC - Type C, Type X (finish rating 26 min), Easy-Lite Type X (finish rating 24 min), Easy-Lite Type X-2, Type LGG 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* (BIBX) Category in the Building Materials Directory and Batts and Blankets* (BZZ) 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 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³ in accordance with the application instructions supplied with the product. Apogee GreenFiber Acquisition LLC - Insulmax and SACTURATE 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/ft³. 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 lb/ft³. INTERNATIONAL CELLULOSE CORP - Cellar-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 (CAZ). 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 (perpendicular to) 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 (BTA) 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 COW) 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 manufacturer's 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 PemaBase

K. Backing Units - 1 in., 2 in., or 3 in. thick, 4 ft wide composite exterior cement backer board with rigid insulation, finished with ceramic tile, marble, natural stone, manufactured stone, thin brick, Portland cement or synthetic stucco. NATIONAL GYPSUM CO - Type PERC

6A. Building Units* - As an alternate to Exterior Facing Item 6 - Insulated steel panels, 12 through 42 in. wide. Attached over sheathing through retain 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 KS series with Kingspan PIR core, 3in. nominal thickness; or Designwall 2000 or Designwall 4000, 2 or 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. RSC-1 clip for use with 2-9/16 in. wide furring channels. RSC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L L C - Types RSC-1, RSC-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 7A) to interior side of studs. Clips spaced 24 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 MOIST CONTROL, INC - Type Iomax.

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 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. PLITEC 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 7C) 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. STUBCO BUILDING SYSTEMS - RESIMOUNT 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 7D). 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 7D) 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. REGIOL AMERICA - Type SonoClip

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 x 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 7E) 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 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 7F) 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 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.

Last Updated on 2024-01-29

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

UL Solutions permits the reproduction of the material contained in Product IQ subject to the following conditions: 1. The Guide Information, Assemblies, Construction, Design, Systems, and/or Certifications (Items) must be presented in their entirety and in a non-misleading manner without any manipulation of the data (or drawings). 2. The statement "Reprinted from Product IQ with permission from UL Solutions" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "©2024 UL LLC."

REVIEWED FOR CODE COMPLIANCE
City Planning and Specialty
Development Services
City of Kansas City, Missouri
Jill Lee, P.E., M.C.P.
Building Official
Date: 07/24/2024 By: jprevor

Case Number CRCB-2023-40303



63RD ST. PROPERTIES: HALFWAY HOUSE
8705 EAST 63RD TFWY
KANSAS CITY, MO 64133



Table with project details: JOB NO.: 23097, DATE: 09/27/2023, REVISIONS: (empty), DESIGNED BY: (empty), DRAWN BY: (empty), CHECKED BY: (empty), SHEET NO.: UL Listings UL102



63RD ST. PROPERTIES: HALFWAY HOUSE
8705 EAST 63RD TFWY
KANSAS CITY, MO 64133



JOB NO.:	23097
DATE:	09/27/2023
REVISIONS:	
2	addendum 2 - 2024/04/22
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
SHEET NO.	
SITE PLAN	
SP100	

RL

PARKING CALCULATIONS:

TOTAL NUMBER OF REQUIRED PARKING = NO. OF BEDS x 1.5 = 9 x 1.5 = 14

	EXISTING	REQUIRED	PROVIDED
PARKING SPACES	9	13	13
ACCESSIBLE SPACES	0	1	1
TOTAL	9	14	14

Legal Description: 8705 E 63RD ST
TFWY BLUE RIDGE WOODS LOT 20

REVIEWED FOR CODE COMPLIANCE
City Planning & Development
Development Services
City of Kansas City, Missouri
Jeff Lee, P.E., M.C.P.
Building Official
Date: 07/24/2024 By: jlee

Case Number CRBC-2023-40303

KEY:

	EXISTING PARKING
	NEW PARKING



RL

RL

A1 SITE PLAN
SCALE: 3/16" = 1'-0"



MUNICIPAL FIRE HYDRANT

D:\PRODUCTION\23097 - 8705 E 63 ST - HALFWAY HOUSE\490 PROP HALFWAY HS CAD.DWG : 5/25/2024 11:06:13 AM : Vincin



63RD ST. PROPERTIES: HALFWAY HOUSE
 8705 EAST 63RD TFWY
 KANSAS CITY, MO 64133



JOB NO.:	23097
DATE:	09/27/2023
REVISIONS:	
2	addendum 2 - 2024/04/22
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
SHEET NO.	
CODE ANAL & ACCESSIBILITY NOTES	
A000	

FIRE RATED WALL ASSEMBLY NOTES:

REFERENCE DEFINED PARTITION TYPES, SHEETS: A-100, A-101, A-102

ALL EXISTING WALLS SHALL BE MODIFIED (WHERE DESIGNATED, WHERE REQUIRED) IN ORDER TO ADHERE TO THE UL FIRE RATING STANDARDS AS DEFINED. GC UNDERSTANDS THAT ALL FIRE RATED WALL ASSEMBLIES MAY BE INSPECTED FOR VERIFICATION. IF ANY EXISTING WALLS ARE DEEMED NOT ABLE TO BE MODIFIED TO THIS UL FIRE RATED ASSEMBLY TYPE FOR ANY REASON, GC TO CONTACT DESIGNER FOR RATED ASSEMBLY ALTERNATIVES.

OCCUPANCY CALCULATIONS (PER TABLE 1004.1.2):

FUNCTION OF SPACE:	NSF	OCC LOAD FACTOR:	OCCUPANCY:
BASEMENT			
SLEEPING ROOMS:	728 SF	200 GROSS	3.64
MECHANICAL:	143 SF	300 GROSS	.47
1ST FLOOR:			
SLEEPING ROOMS:	815 SF	200 GROSS	4.1
COMMON AREA:	183 SF	200 GROSS	.91
2ND FLOOR:			
SLEEPING ROOMS:	815 SF	200 GROSS	4.1
TOTAL:			14 PEOPLE

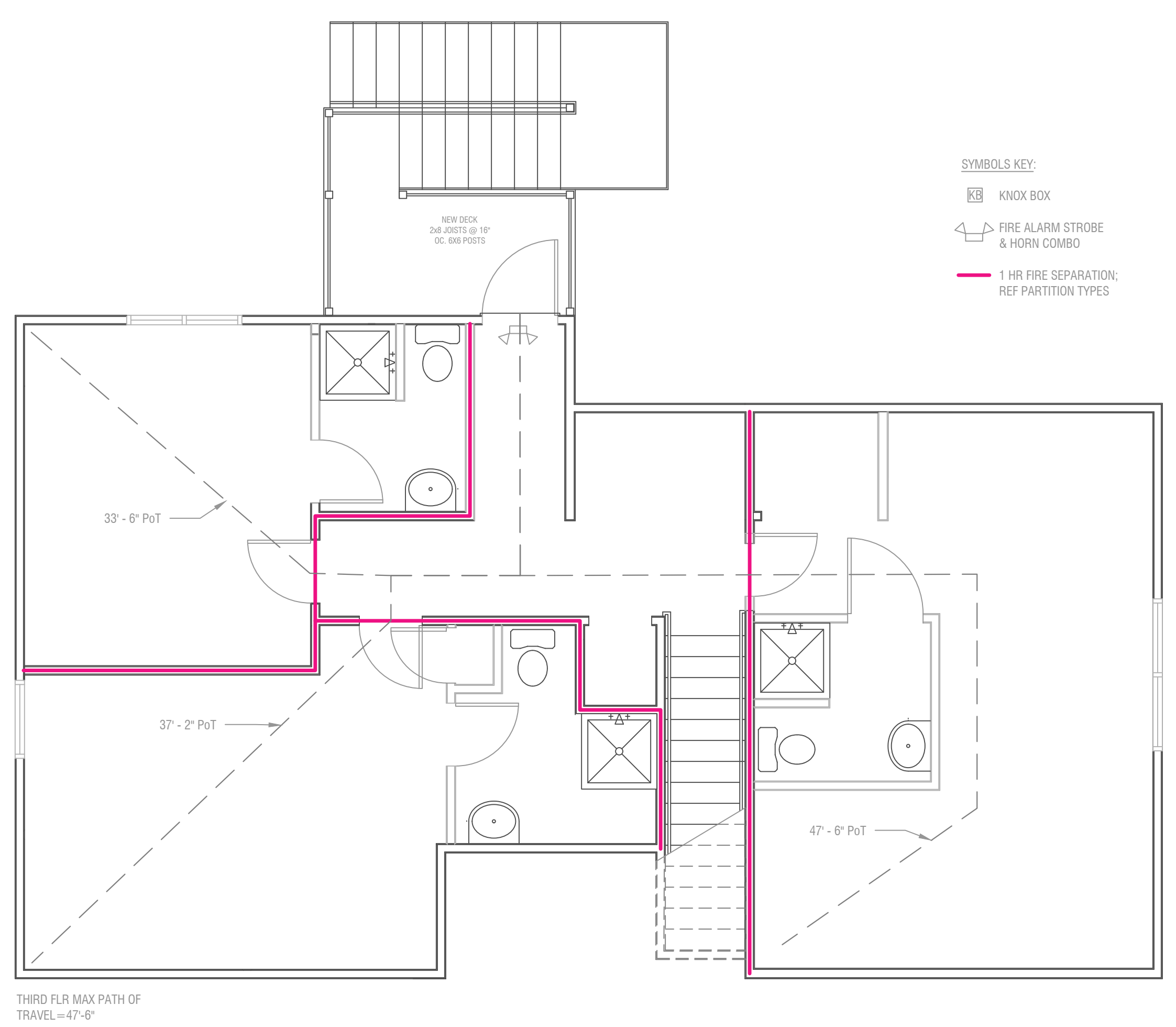
(PER TABLE 1005.2.1)
 NUMBER OF EXITS REQUIRED: 1
 NUMBER OF EXITS PROVIDED: 1
 ALLOWABLE COMMON PATH OF TRAVEL = UP TO 75'
 MAXIMUM PATH OF TRAVEL = 64'-2"

REVIEWED FOR CODE COMPLIANCE
 City Planning & Development
 Development Services
 City of Kansas City, Missouri

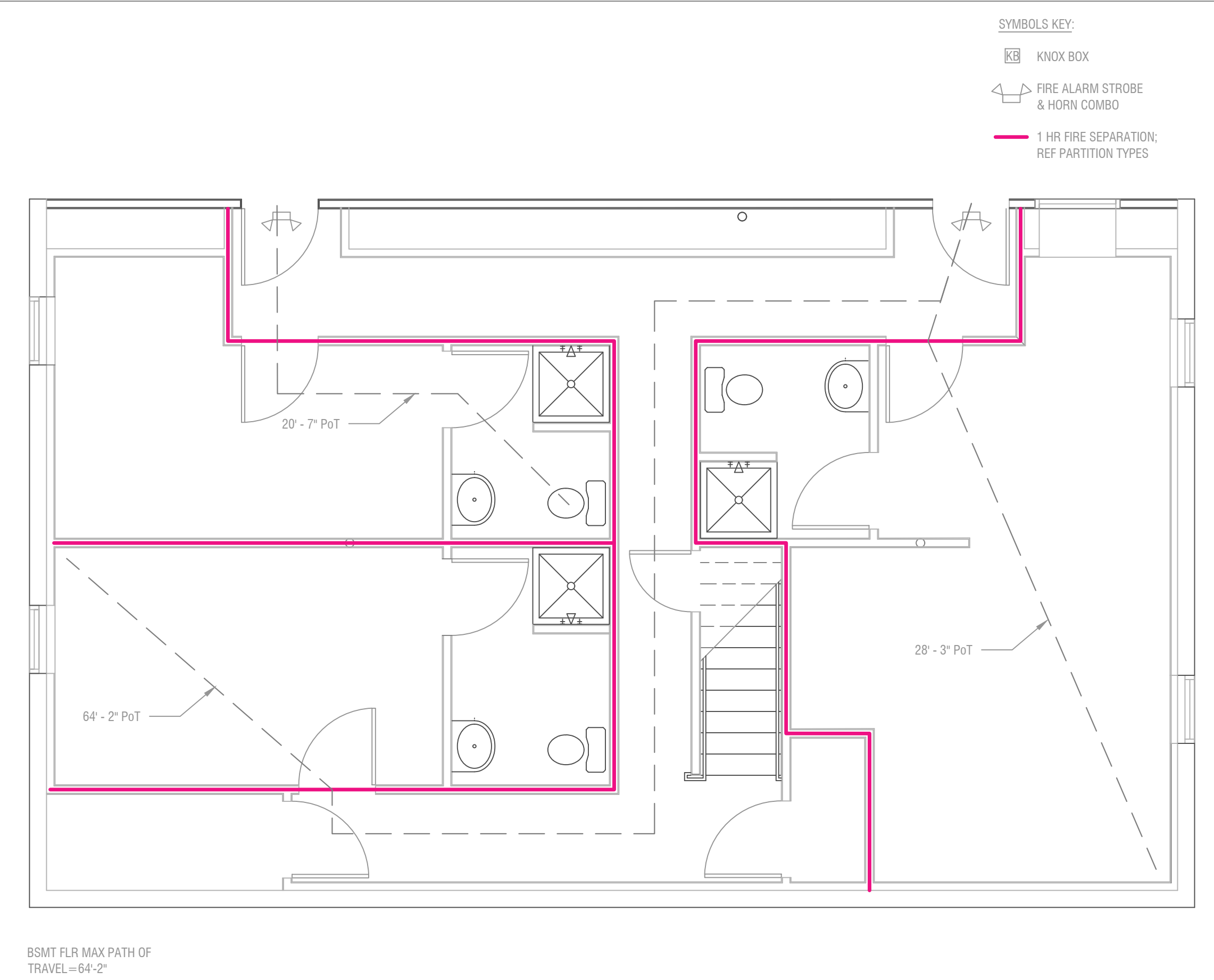
[Signature]
 Jeff Lee, P.E., M.C.P.
 Building Official
 Date: 07/24/2024 By: jlee

Case Number CRBC-2023-40303

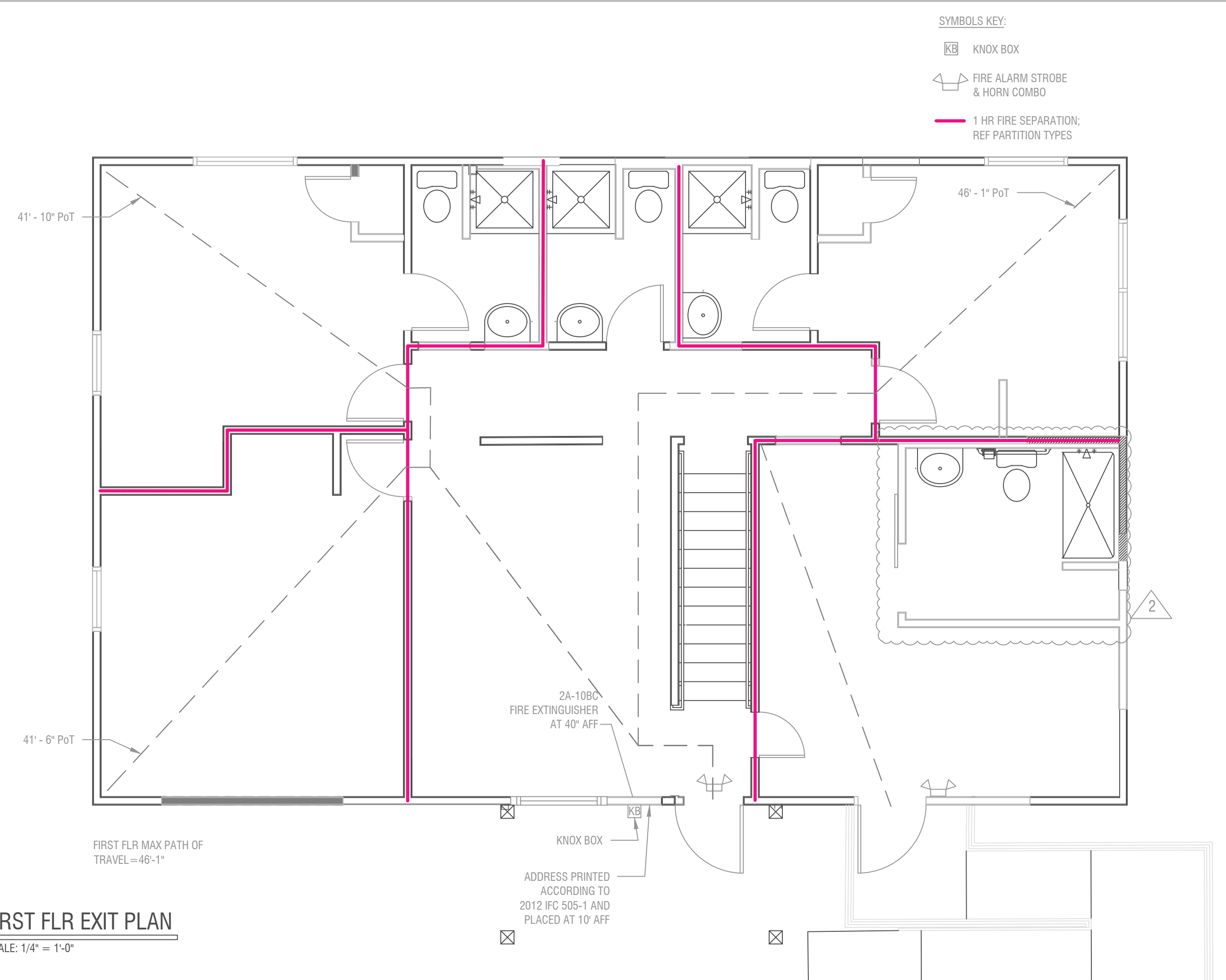
B1 OCCUPANCY CALCULATIONS
 SCALE: NTS



B2 SECOND FLR EXIT PLAN
 SCALE: 1/4" = 1'-0"



A1 BSMT EXIT PLAN
 SCALE: 1/4" = 1'-0"



A2 FIRST FLR EXIT PLAN
 SCALE: 1/4" = 1'-0"

D:\PRODUCTION\23097 - HALFWAY HOUSE\490 PROP HALFWAY HS CAD.DWG : 5/25/2024 11:06:13 AM : Vincin



63RD ST. PROPERTIES: HALFWAY HOUSE
 8705 EAST 63RD TFWY
 KANSAS CITY, MO 64133



JOB NO.:	23097
DATE:	09/27/2023
REVISIONS:	
2	addendum 2 - 2024/04/22
3	addendum 3 - 2024/07/10

DESIGNED BY:
 DRAWN BY:
 CHECKED BY:
 SHEET NO.

BASEMENT FLOOR PLAN
A100

- WALL TYPE KEY:
- NEW WALL
 - WD BLKG BTWN STUDS
 - EXISTING WALL
 - DEMO WALL

PARTITION TYPES KEY

- P1** UL DES U305/U314: INTERIOR STUD LOAD BEARING PARTITION
 1 HR FIRE RATED WALL: (5/8" FIRE-SHIELD GYP BD OR 5/8" XP FIRE-SHIELD GYP BD OR SCX) APPLIED HORIZONTALLY OR VERTICALLY (ITS TAPED) TO EACH SIDE OF 2X4 WD STUDS (MINI @ 16" OC W/ 6d COATED NAILS, 1/2" LONG, .0915" SHANK, 1/4" HEADS, 7" OC AT EDGES, JOINTS OF SQUARE EDGE, BEVEL EDGE OR PREDECORATED GYP BD MAY BE LEFT EXPOSED. JOINTS STAGGERED 16" ON OPPOSITE SIDES. OPTIONAL SOUND BATTS
- P2** TYP INT WALL:
 2X4 STUDS AT 16" OC, (1) LAYER 1/2" GYP BD EA SIDE, OPTIONAL SOUND BATTS
- P3** INTERIOR PLUMBING PARTITION WALL:
 2X6 STUDS AT 16" OC
 (1) LAYER 1/2" GYP BD EA SIDE
- P4** SHOWER WALL:
 WD STUD WALL, TILE OVER 1/2" FIBERCEMENT BD (TYP SHOWER SIDE)
- P5** INT: 2X4 STUD WALL, R-13 (MIN) BATTS
 INSUL, (1) LAYER 1/2" GYP BD EA SIDE
- P6** UL DES U356: EXT WALL: 2X6 (OR MATCH EXIST) WD STUDS @ 16" OC W/ R-13(MIN) BATTS INSUL, 1/2" GYP BD INT SIDE, 2 LAYERS GRADE "D" BUILDING WRAP & 1/2" SHEATHING EXT SIDE
- P7** EXISTING CONC FSTN WALL
 FURRED WITH 2X4 WD STUDS AT 16" OC, BATTS INSULATION, 1/2" GYP BD

RATED FLR/CLG ASSEMBLIES:

- TYP 1HR FIRE RATED FLOOR/CLG ASSEMBLY
 UL L501: 1" NOM SUBFLR (JOINTS FINISHED), 2X10 WD FLR JOISTS @ 16" OC, 1/2" FIRECODE CORE (TYPE-X) GYP BD, OPTIONAL BATTS
- TYP 1HR FIRE RATED FLOOR/CLG ASSEMBLY
 UL L501: 1" NOM SUBFLR (JOINTS FINISHED), 2X10 WD FLR JOISTS @ 16" OC, 1/2" FIRECODE CORE (TYPE-X) GYP BD, OPTIONAL BATTS

NOTE ABOUT ADAPTING A FIRE RATING TO EXISTING WOOD STUD FLOOR/CEILING ASSEMBLIES (COMPONENT ADDITIVE METHOD CALCULATIONS):

- AS PER IBC 2018 TABLE 722.6.2(1): FIRE RATING TIME ASSIGNED FOR EACH LAYER OF 1/2" TYPE-X GYPSUM BOARD IS 25 MINUTES.
- AS PER IBC 2018 TABLE 722.6.2 (2): FIRE RATING TIME ASSIGNED TO WOOD FLOOR/JOISTS IS 10 MINUTES.
- CAM CALCULATIONS (FROM FIRE EXPOSED SIDE):
 (2 LAYERS) 1/2" TYPE X GYPSUM BOARD = 2 X 25 MINS
 WOOD JOISTS = 10 MINS
 COMBINED ASSEMBLY FIRE RESISTANCE RATING = 60 MINS

FIREBLOCKING NOTES:

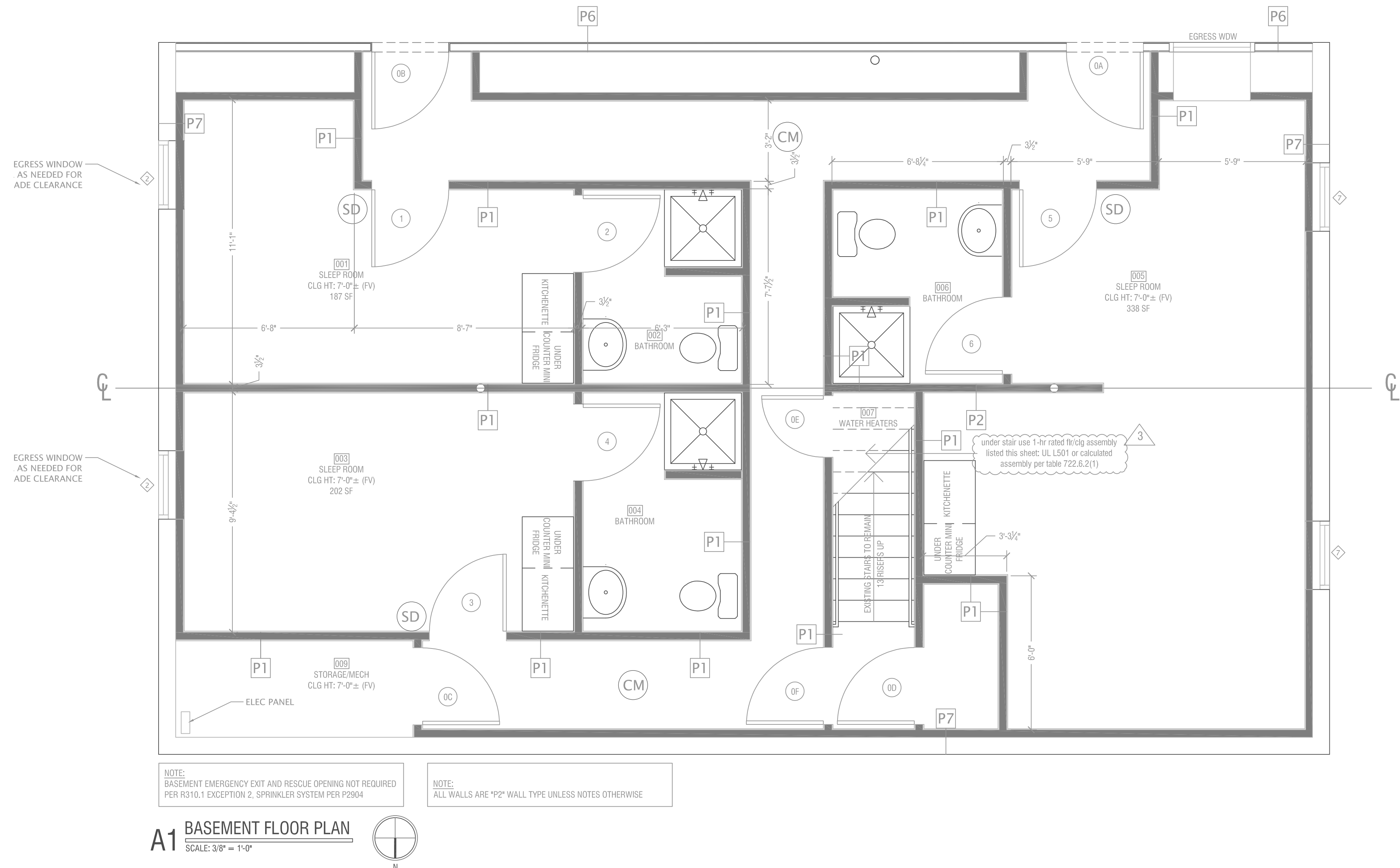
- GC RESPONSIBLE FOR ALL FIREBLOCKING AS REQUIRED BY IRC, INCLUDING BUT NOT LIMITED TO:
 1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS AS FOLLOWS.
 - A. VERTICALLY AT CEILING AND FLOOR LEVELS.
 - B. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.
 2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILING AND COVE CEILING.
 3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN.
 4. AT OPENINGS AROUND VENTS, PPES, DUCTS, CABLES AND WIRES AT CEILING AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E 136 REQUIREMENTS.

- FIREBLOCKING MATERIALS:
 EXCEPT AS PROVIDED IN SECTION R302.11, ITEM 4, FIREBLOCKING SHALL CONSIST OF THE FOLLOWING MATERIALS.
 1. TWO-INCH NOMINAL LUMBER.
 2. TWO THICKNESSES OF 1 INCH
 3. ONE THICKNESS OF 2 1/2 INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 2 1/2 INCH WOOD STRUCTURAL PANELS
 4. ONE THICKNESS OF 3/4 INCH PARTICLEBOARD WITH JOINTS BACKED BY 3/4 INCH PARTICLEBOARD.
 5. ONE-HALF-INCH GYPSUM BD.
 6. ONE-QUARTER-INCH CEMENT-BASED MILLBOARD.
 7. BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE.
 8. CELLULOSE INSULATION INSTALLED AS TESTED FOR THE SPECIFIC APPLICATION.

BLDG SQ FOOTAGE CALCS	
FLOOR	SF
BASEMENT (W/STRS)	1220 SF
FIRST FLOOR (W/STRS)	1304 SF
SECOND FLOOR (W/OUT STRS)	808 SF
TOTAL	3332 SF

REVIEWED FOR CODE COMPLIANCE
 City Planning & Development
 Development Services
 City of Kansas City, Missouri
 Jeff Lee, P.E., M.C.P.
 Building Official
 Date: 07/24/2024 By: jlee

Case Number CRBC-2023-40303



NOTE: BASEMENT EMERGENCY EXIT AND RESCUE OPENING NOT REQUIRED PER R310.1 EXCEPTION 2, SPRINKLER SYSTEM PER P2904

NOTE: ALL WALLS ARE "P2" WALL TYPE UNLESS NOTES OTHERWISE

A1 BASEMENT FLOOR PLAN
 SCALE: 3/8" = 1'-0"



D:\PRODUCTION\23097 - 8705 E 63 ST - HALFWAY HOUSE\490 PROP HALFWAY HS CAD.DWG - 5/25/2024 3:20:00 PM - Vinnin



63RD ST. PROPERTIES: HALFWAY HOUSE
8705 EAST 63RD TFWY
KANSAS CITY, MO 64133



JOB NO.:	23097
DATE:	09/27/2023
REVISIONS:	
2	addendum 2 - 2024/04/22

DESIGNED BY:
DRAWN BY:
CHECKED BY:
SHEET NO.

FIRST FLOOR PLAN
A101

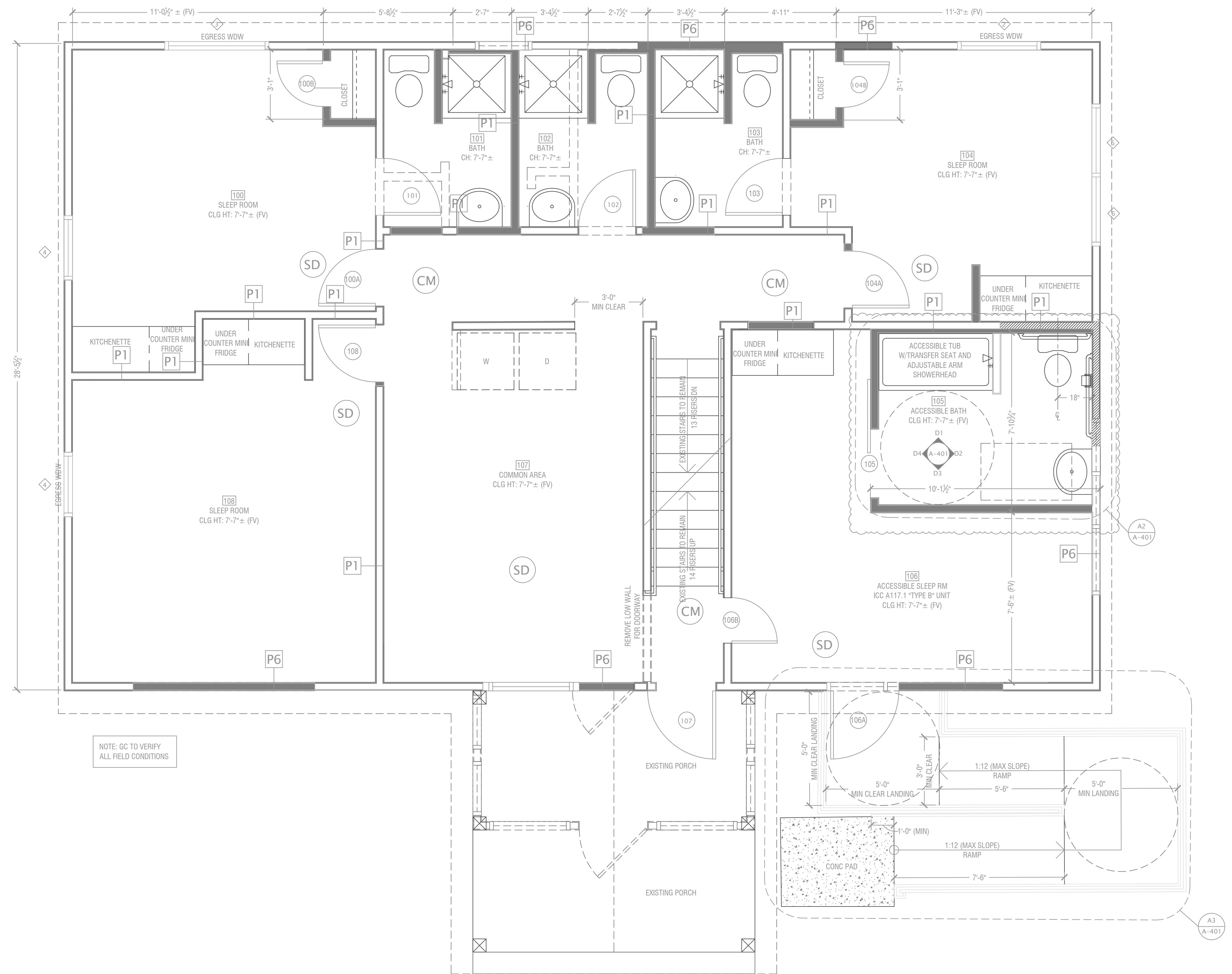
- WALL TYPE KEY:**
- NEW WALL
 - WD BLKG BTWN STUDS
 - EXISTING WALL
 - DEMO WALL

- PARTITION TYPES KEY**
- P1- UL DES U305/U314: INTERIOR STUD LOAD BEARING PARTITION
1 HR FIRE RATED WALL: IS 8" FIRE-SHIELD GYP BD OR 5/8" XP FIRE-SHIELD GYP BD OR SCU APPLIED HORIZONTALLY OR VERTICALLY (ITS TAPED) TO EACH SIDE OF 2X4 WD STUDS (MIN) @ 16" OC W/ 6d COATED NAILS, 1/2" LONG, @91.5" SPAN, 1/4" HEADS, 7" OC AT EDGES. JOINTS OF SQUARE EDGE, BEVEL EDGE OR PREDECORATED GYP BD MAY BE LEFT EXPOSED. JOINTS STAGGERED 15" ON OPPOSITE SIDES. OPTIONAL SOUND BATTS
 - P2- TYP INT WALL:
2X4 STUDS AT 16" OC, (1) LAYER 1/2" GYP BD EA SIDE, OPTIONAL SOUND BATTS
 - P3- INTERIOR PLUMBING PARTITION WALL:
2X6 STUDS AT 16" OC
(1) LAYER 1/2" GYP BD EA SIDE
 - P4- SHOWER WALL:
WD STUD WALL, TILE OVER 1/2" FIBERCEMENT BD (TYP SHOWER SIDE)
 - P5- INT: 2X4 STUD WALL, R-13 (MIN) BATTS INSUL, (1) LAYER 1/2" GYP BD EA SIDE
 - P6- UL DES U336: EXT WALL: 2X6 (OR MATCH EXIST) WD STUDS @16" OC W/ R-13(MIN) BATTS INSUL, 1/2" GYP BD INT SIDE, 2 LAYERS GRADE "D" BUILDING WRAP & 1/2" SHEATHING EXT SIDE
 - P7- EXISTING CONC FDTN WALL, 2X4 WD STUDS AT 16" OC, BATTS INSULATION, 1/2" GYP BD

- RATED FLR/CLG ASSEMBLIES:**
- TYP 1 HR FIRE RATED FLOOR/CLG ASSEMBLY
UL 501: 1" NOM SUBFLR (JOINTS FINISHED), 2X10 WD FLR JOISTS @16" OC, 1/2" FIRECODE CORE (TYPE-X) GYP BD, OPTIONAL BATTS
 - TYP 1 HR FIRE RATED FLOOR/CLG ASSEMBLY
UL 501: 1" NOM SUBFLR (JOINTS FINISHED), 2X10 WD FLR JOISTS @16" OC, 1/2" FIRECODE CORE (TYPE-X) GYP BD, OPTIONAL BATTS
- NOTE ABOUT ADAPTING A FIRE RATING TO EXISTING WOOD STUD FLOOR/CEILING ASSEMBLIES (COMPONENT ADDITIVE METHOD CALCULATIONS):
- AS/PER IBC 2018 TABLE 722.6.2(1): FIRE RATING TIME ASSIGNED FOR EACH LAYER OF 1/2" TYPE-X GYPSUM BOARD IS 25 MINUTES.
- AS/PER IBC 2018 TABLE 722.6.2(2): FIRE RATING TIME ASSIGNED TO WOOD FLOOR JOISTS IS 10 MINUTES.
- CAM CALCULATIONS (FROM FIRE EXPOSED SIDE):
(2) LAYERS 1/2" TYPE X GYPSUM BOARD = 2 X 25 MINS
WOOD JOISTS = 10 MINS
COMBINED ASSEMBLY FIRE RESISTANCE RATING = 60 MINS

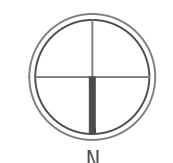
- FIREBLOCKING NOTES:**
- GC RESPONSIBLE FOR ALL FIREBLOCKING AS REQUIRED BY IRC, INCLUDING BUT NOT LIMITED TO:
- IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS AS FOLLOWS:
 - VERTICALLY AT CEILING AND FLOOR LEVELS.
 - HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.
 - AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILING AND COVE CEILING.
 - IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN.
 - AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILING AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E 136 REQUIREMENTS.
- FIREBLOCKING MATERIALS:**
EXCEPT AS PROVIDED IN SECTION R302.11, ITEM 4, FIREBLOCKING SHALL CONSIST OF THE FOLLOWING MATERIALS:
- TWO-INCH NOMINAL LUMBER.
 - TWO THICKNESSES OF 1 INCH
 - ONE THICKNESS OF 23/32 INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 23/32 INCH WOOD STRUCTURAL PANELS.
 - ONE THICKNESS OF 3/4 INCH PARTICLEBOARD WITH JOINTS BACKED BY 3/4 INCH PARTICLEBOARD.
 - ONE-HALF-INCH GYPSUM BD.
 - ONE-QUARTER-INCH CEMENT-BASED MILLBOARD.
 - BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE.
 - CELLULOSE INSULATION INSTALLED AS TESTED FOR THE SPECIFIC APPLICATION.

- WALL TYPE KEY:**
- NEW WALLS
 - EXISTING WALLS
 - DEMOLISHED WALLS



NOTE: GC TO VERIFY ALL FIELD CONDITIONS

A2 FIRST FLOOR PLAN
SCALE: 3/8" = 1'-0"



REVIEWED FOR CODE COMPLIANCE
City Planning & Development Services
City of Kansas City, Missouri
Date: 07/24/2024 By: jreynold

Case Number CRBC-2023-40303

D:\PRODUCTION\23097 - 8705 E 63 ST - HALFWAY HOUSE\490 PROP HALFWAY HS CAD.DWG : 5/25/2024 11:06:13 AM : Vincin



63RD ST. PROPERTIES: HALFWAY HOUSE
8705 EAST 63RD TFWY
KANSAS CITY, MO 64133



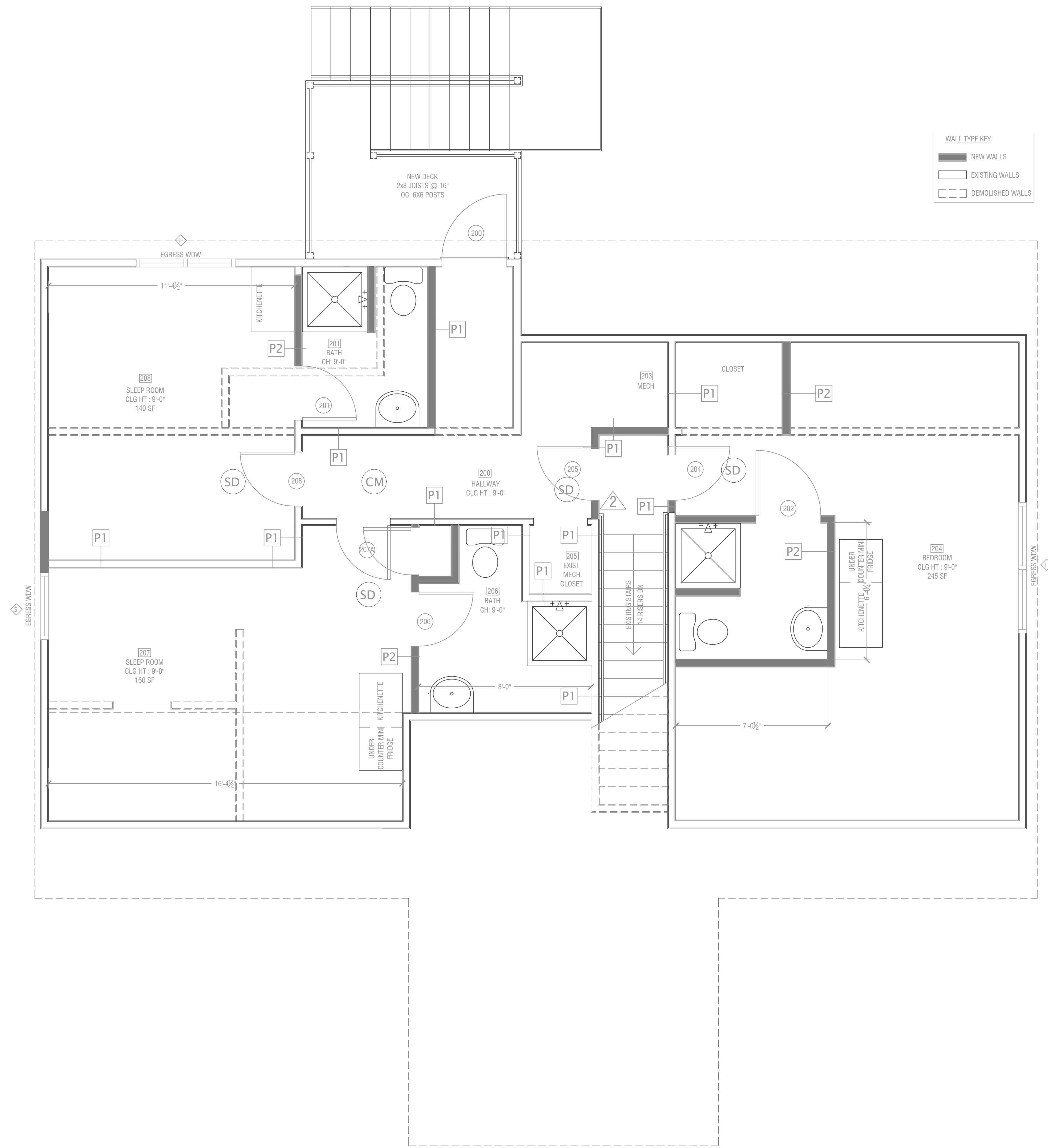
JOB NO.:	23097
DATE:	09/27/2023
REVISIONS:	
2	addendum 2 - 2024/04/22
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
SHEET NO.	
SECOND FLOOR PLAN	
A102	

- WALL TYPE KEY:**
- NEW WALL
 - WD BLKG BTWN STUDS
 - EXISTING WALL
 - DEMO WALL

- PARTITION TYPES KEY**
- P1- UL DES U305/U314: INTERIOR STUD BEARING PARTITION
1 HR FIRE RATED WALL: IS 8" FIRE-SHIELD GYP BD OR 5/8" XP FIRE-SHIELD GYP BD OR SCU APPLIED HORIZONTALLY OR VERTICALLY (ITS TAPED) TO EACH SIDE OF 2X4 WD STUDS (MIN) @ 16" OC W/ 6d COATED NAILS, 1" LONG, .0915" SHANK, 1/4" HEADS, 7" OC AT EDGES. JOINTS OF SQUARE EDGE, BEVEL EDGE OR PREDECORATED GYP BD MAY BE LEFT EXPOSED. JOINTS STAGGERED 15" ON OPPOSITE SIDES. OPTIONAL SOUND BATTS
 - P2- TYP INT WALL:
2X4 STUDS AT 16" OC, (1) LAYER 1/2" GYP BD EA SIDE, OPTIONAL SOUND BATTS
 - P3- INTERIOR PLUMBING PARTITION WALL:
2X6 STUDS AT 16" OC
(1) LAYER 1/2" GYP BD EA SIDE
 - P4- SHOWER WALL:
WD STUD WALL, TILE OVER 1/2" FIBERCEMENT BD (TYP SHOWER SIDE)
 - P5- INT: 2X4 STUD WALL, R-13 (MIN) BATTS INSUL, (1) LAYER 1/2" GYP BD EA SIDE
 - P6- UL DES U356: EXT WALL: 2X6 (OR MATCH EXIST) WD STUDS @ 16" OC W/ R-13 (MIN) BATTS INSUL, 1/2" GYP BD INT SIDE, 2 LAYERS GRADE 1" BUILDING WRAP & 1/2" SHEATHING EXT SIDE
 - P7- EXISTING CONC FDTN WALL:
FURRED WITH 2X4 WD STUDS AT 16" OC, BATTS INSULATION, 1/2" GYP BD

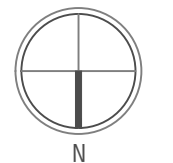
- RATED FLR/CLG ASSEMBLIES:**
- TYP 1 HR FIRE RATED FLOOR/CLG ASSEMBLY
UL L501: 1" NOM SUBFLR (JOINTS FINISHED), 2X10 WD FLR JOISTS @ 16" OC, 1/2" FIRECODE CORE (TYPE-X) GYP BD, OPTIONAL BATTS
 - TYP 1 HR FIRE RATED FLOOR/CLG ASSEMBLY
UL L501: 1" NOM SUBFLR (JOINTS FINISHED), 2X10 WD FLR JOISTS @ 16" OC, 1/2" FIRECODE CORE (TYPE-X) GYP BD, OPTIONAL BATTS
- NOTE ABOUT ADAPTING A FIRE RATING TO EXISTING WOOD STUD FLOOR/CEILING ASSEMBLIES (COMPONENT ADDITIVE METHOD CALCULATIONS):
- AS/PER IBC 2018 TABLE 722.6.2(1): FIRE RATING TIME ASSIGNED FOR EACH LAYER OF 1/2" TYPE-X GYPSUM BOARD IS 25 MINUTES.
- AS/PER IBC 2018 TABLE 722.6.2 (2): FIRE RATING TIME ASSIGNED TO WOOD FLOOR JOISTS IS 10 MINUTES.
- CAM CALCULATIONS (FROM FIRE EXPOSED SIDE):
(2 LAYERS) 1/2" TYPE X GYPSUM BOARD = 2 X 25 MINS
WOOD JOISTS = 10 MINS
COMBINED ASSEMBLY FIRE RESISTANCE RATING = 60 MINS

- FIREBLOCKING NOTES:**
- GC RESPONSIBLE FOR ALL FIREBLOCKING AS REQUIRED BY IRC, INCLUDING BUT NOT LIMITED TO:
- IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS AS FOLLOWS:
 - VERTICALLY AT CEILING AND FLOOR LEVELS.
 - HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.
 - AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILING AND COVE CEILING.
 - IN CONCEALED SPACES BETWEEN STAR STRINGERS AT THE TOP AND BOTTOM OF THE RUN.
 - AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILING AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E 136 REQUIREMENTS.
- FIREBLOCKING MATERIALS:**
EXCEPT AS PROVIDED IN SECTION R302.11, ITEM 4, FIREBLOCKING SHALL CONSIST OF THE FOLLOWING MATERIALS:
- TWO-INCH NOMINAL LUMBER.
 - TWO THICKNESSES OF 1 INCH
 - ONE THICKNESS OF 23/32 INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 23/32 INCH WOOD STRUCTURAL PANELS.
 - ONE THICKNESS OF 3/4 INCH PARTICLEBOARD WITH JOINTS BACKED BY 3/4 INCH PARTICLEBOARD.
 - ONE-HALF-INCH GYPSUM BD.
 - ONE-QUARTER-INCH CEMENT-BASED MILLBOARD.
 - BATTS OR BLANKETS OF MINERAL WOOL OR GLASS FIBER OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE.
 - CELLULOSE INSULATION INSTALLED AS TESTED FOR THE SPECIFIC APPLICATION.



- WALL TYPE KEY:**
- NEW WALLS
 - EXISTING WALLS
 - DEMOLISHED WALLS

A3 SECOND FLOOR PLAN
SCALE: 3/8" = 1'-0"



REVIEWED FOR CODE COMPLIANCE
City Planning & Development
Development Services
City of Kansas City, Missouri

[Signature]
Jeff Lee, P.E., M.C.P.
Building Official
Date: 07/24/2024 By: jlee

Case Number CRBC-2023-40303

D:\PRODUCTION\23097 - 8705 E 63 ST - HALFWAY HOUSE\490 PROP HALFWAY HS CAD.DWG : 5/25/2024 11:06:13 AM : Vincin



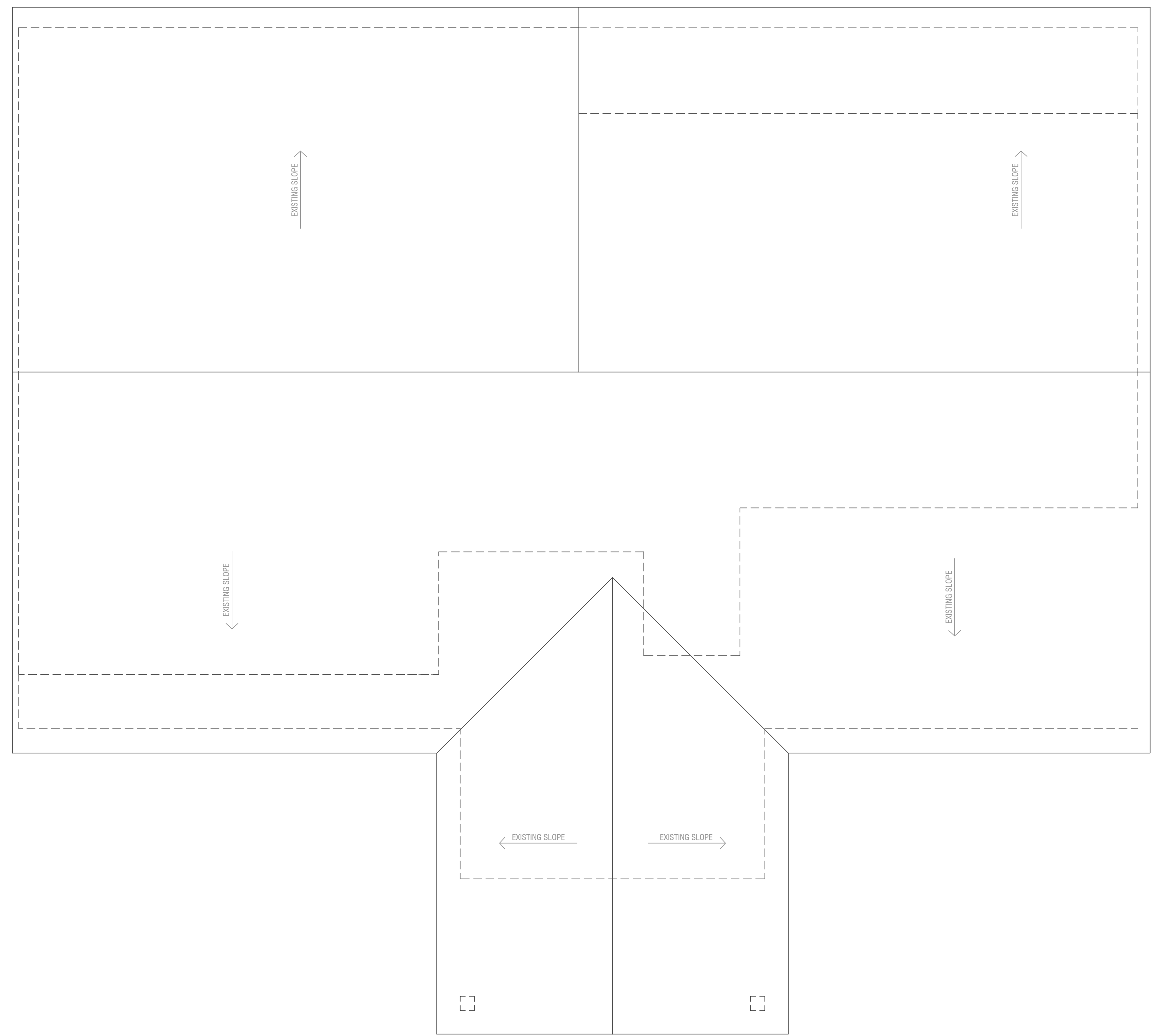
63RD ST. PROPERTIES: HALFWAY HOUSE
8705 EAST 63RD TFWY
KANSAS CITY, MO 64133



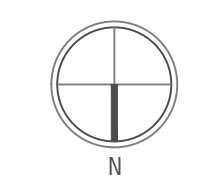
JOB NO.:	23097
DATE:	09/27/2023
REVISIONS:	
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
SHEET NO.	ROOF PLAN A103

NOTE:
ALL DECK/EXTERIOR STAIR FRAMING
SHALL BE PRESSURE-TREATED
SOUTHER YELLOW PINE (SYP) #2
WITH GALVANIZED
FASTENERS/ATTACHMENTS

WALL TYPE KEY:
NEW WALLS
EXISTING WALLS
DEMOLISHED WALLS



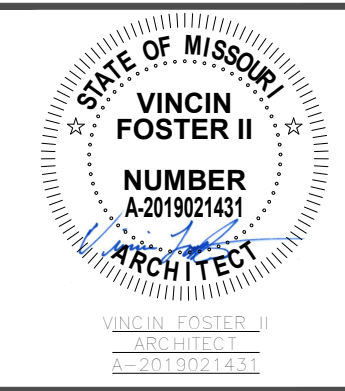
A3 ROOF PLAN & ADDITION FRAMING PLAN
SCALE: 3/8" = 1'-0"



REVIEWED FOR CODE COMPLIANCE
City Planning & Development
Development Services
City of Kansas City, Missouri
Date: 07/24/2024 By: jreynol

Case Number CRBC-2023-40303

D:\PRODUCTION\23097 - 8705 E 63 ST - HALFWAY HOUSE\490 PROP HALFWAY HS CAD.DWG : 5/25/2024 11:06:13 AM : Vincin



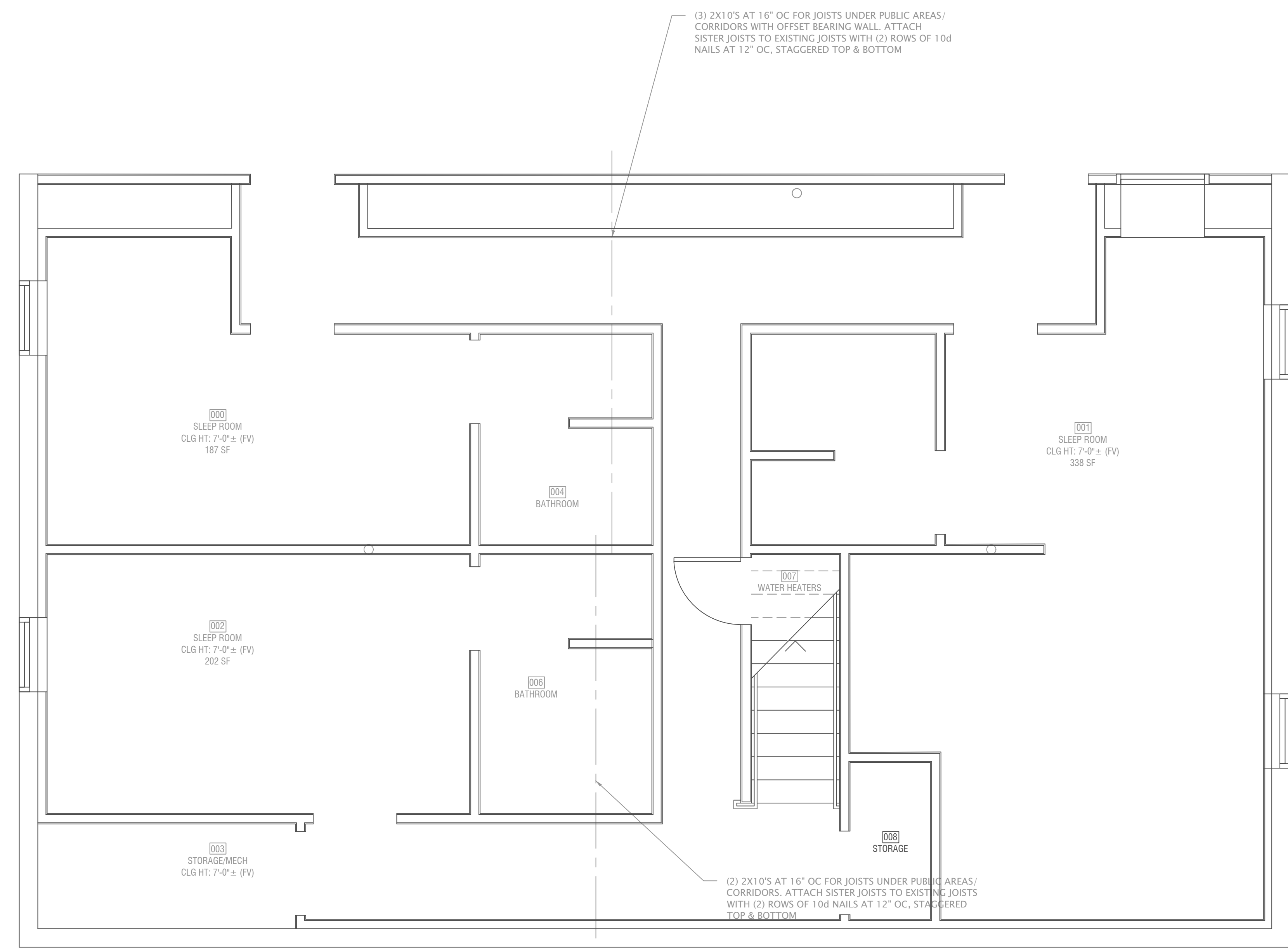
63RD ST. PROPERTIES: HALFWAY HOUSE
8705 EAST 63RD TFWY
KANSAS CITY, MO 64133



JOB NO.:	23097
DATE:	09/27/2023
REVISIONS:	
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
SHEET NO.	ROOF ADDITION FRAMING PLAN A104

REVIEWED FOR CODE COMPLIANCE
City Planning & Development
Development Services
City of Kansas City, Missouri
Jeff Lee, P.E., M.C.P.
Building Official
Date: 07/24/2024 By: jlee

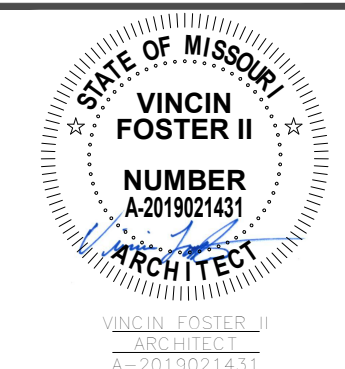
Case Number CRBC-2023-40303



A1 FIRST FLR STRUCTURAL FRAMING PLAN
SCALE: 3/8" = 1'-0"



D:\PRODUCTION\23097 - 8705 E 63 ST - HALFWAY HOUSE_V490 PROP HALFWAY HS CAD.DWG : 5/25/2024 11:06:13 AM : Vincin

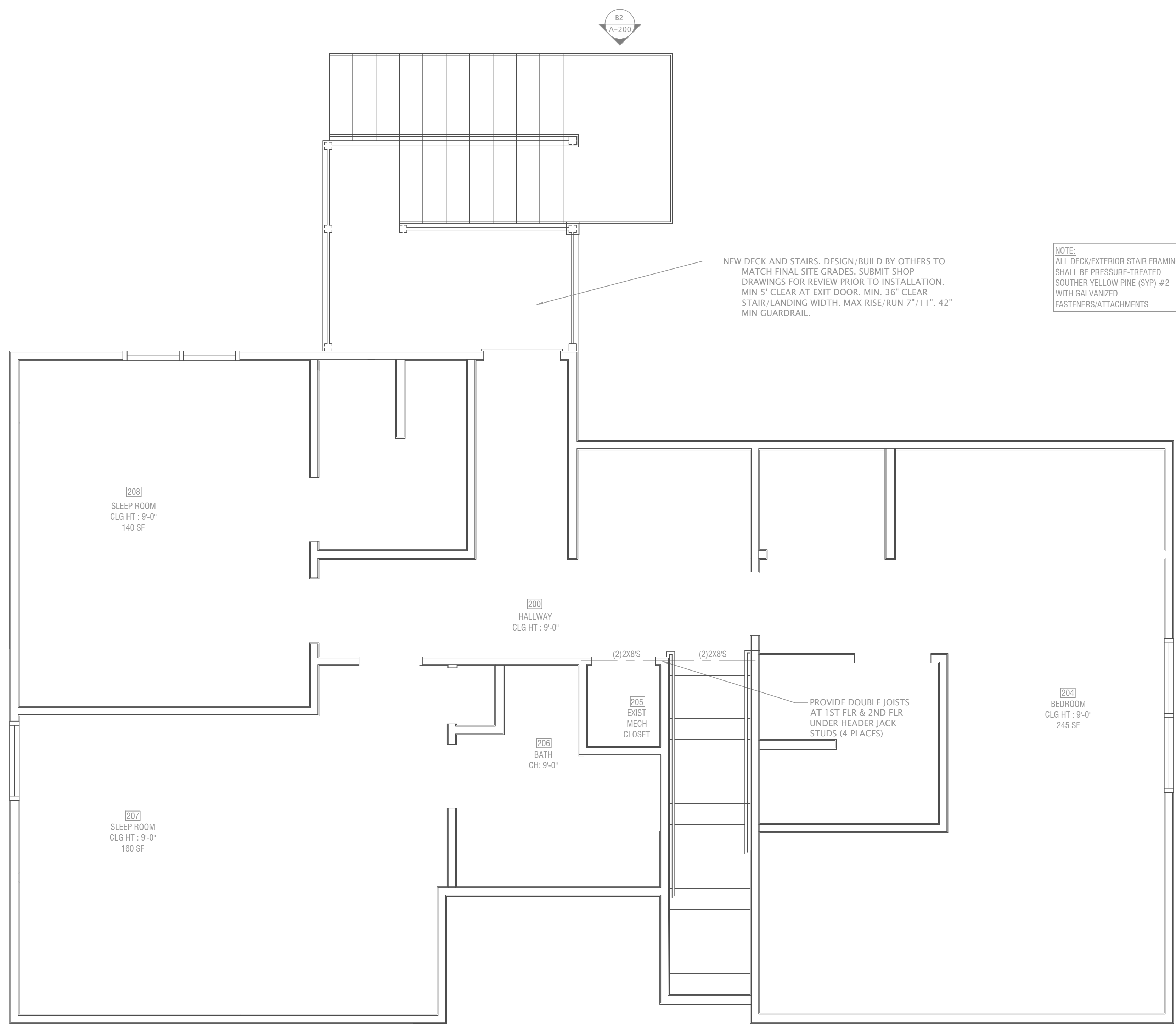


63RD ST. PROPERTIES: HALFWAY HOUSE
8705 EAST 63RD TFWY
KANSAS CITY, MO 64133

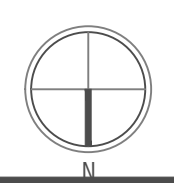


JOB NO.:	23097
DATE:	09/27/2023
REVISIONS:	
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
SHEET NO.	
FRAMING PLAN A106	

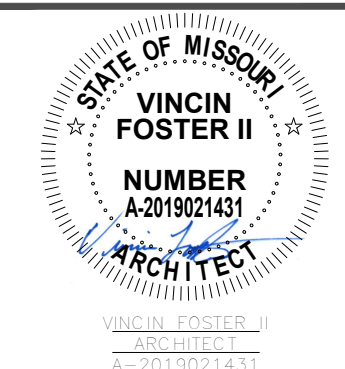
REVIEWED FOR CODE COMPLIANCE
City Planning & Development
Development Services
City of Kansas City, Missouri
Date: 07/24/2024 By: jreynolds
Case Number CRBC-2023-40303



A1 SECOND FLOOR CLG PLAN & DECK FRAMING PLAN
SCALE: 3/8" = 1'-0"



D:\PRODUCTION\23097 - 8705 E 63 ST - HALFWAY HOUSE\490 PROP HALFWAY HS CAD.DWG : 5/25/2024 11:06:13 AM : Vincin



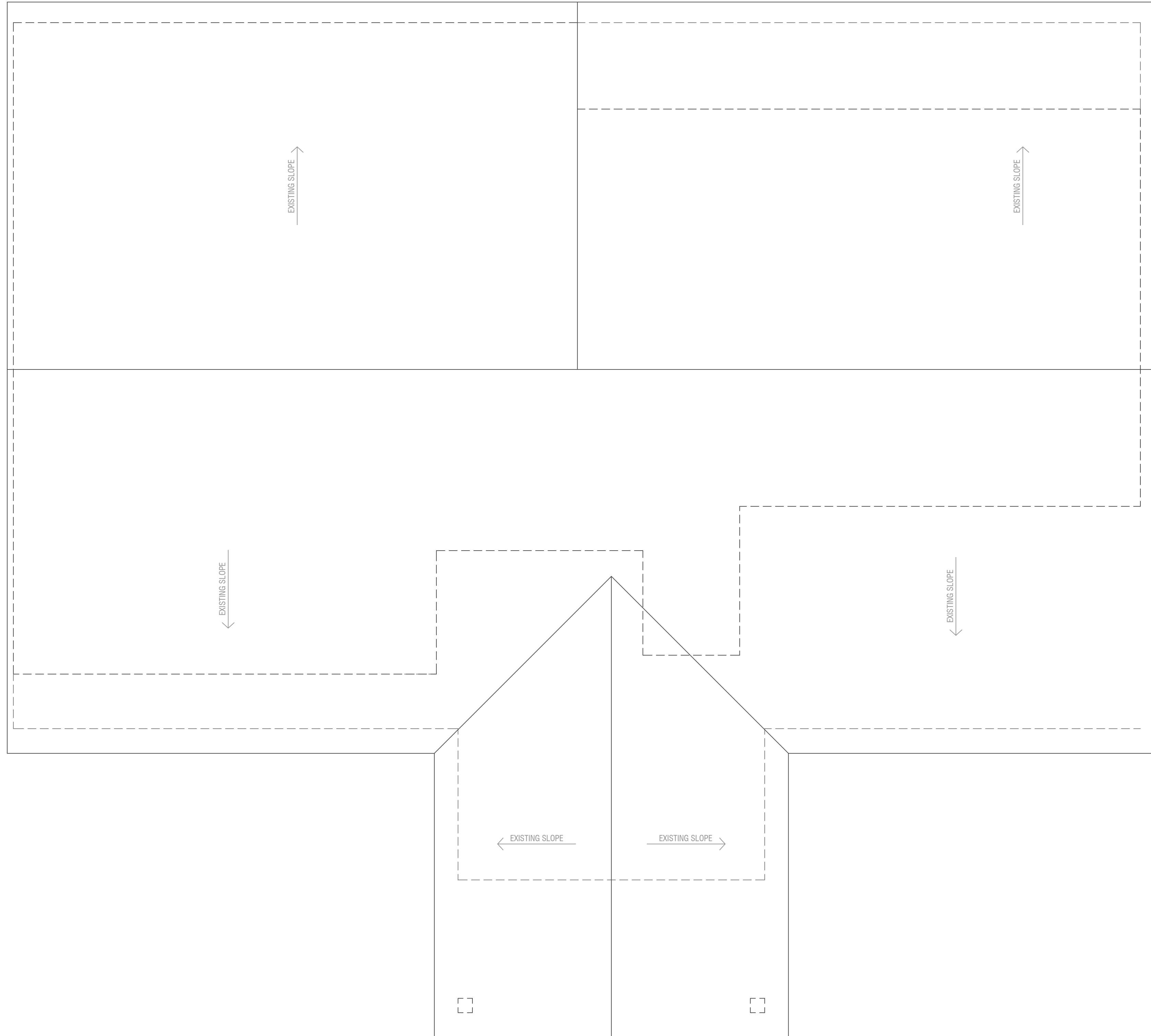
63RD ST. PROPERTIES: HALFWAY HOUSE
8705 EAST 63RD TFWY
KANSAS CITY, MO 64133



JOB NO.:	23097
DATE:	09/27/2023
REVISIONS:	
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
SHEET NO.	ROOF ADDITION FRAMING PLAN A107

REVIEWED FOR CODE COMPLIANCE
City Planning & Development
Development Services
City of Kansas City, Missouri
Date: 07/24/2024 By: jreynold

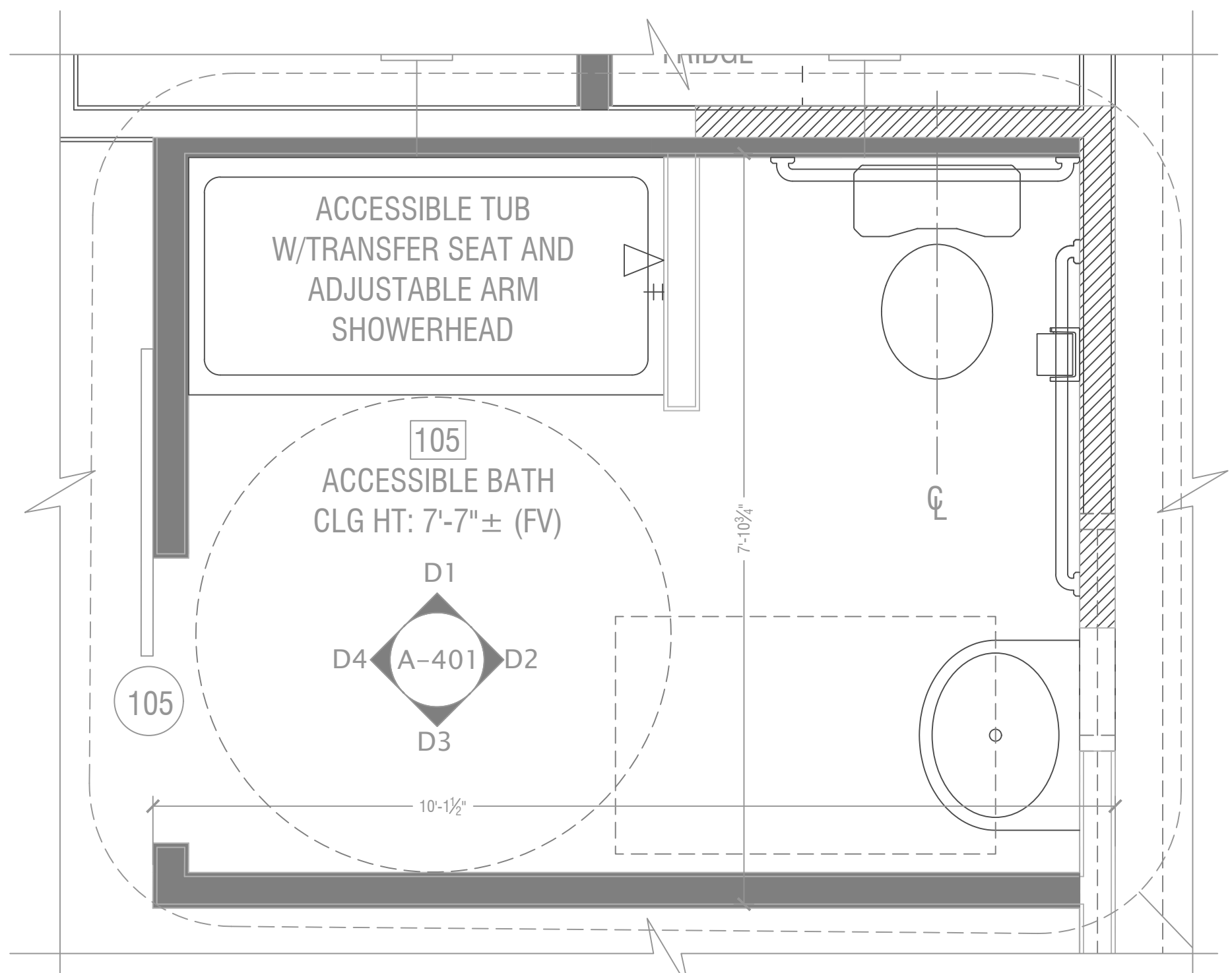
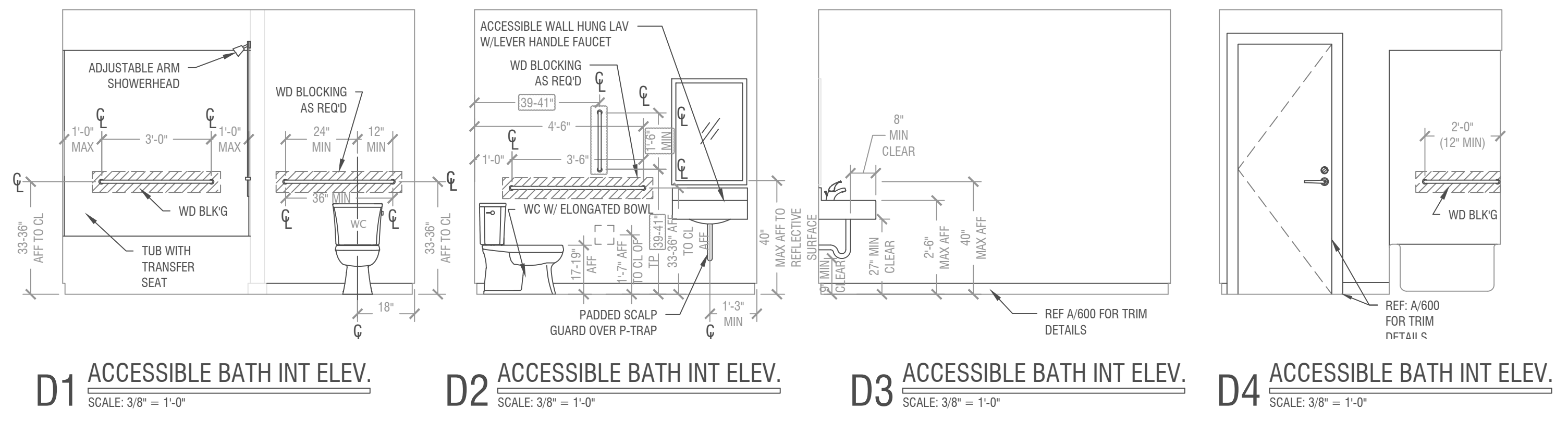
Case Number CRBC-2023-40303



A1 DORMER ROOF ADDITION FRAMING PLAN
SCALE: 3/8" = 1'-0"



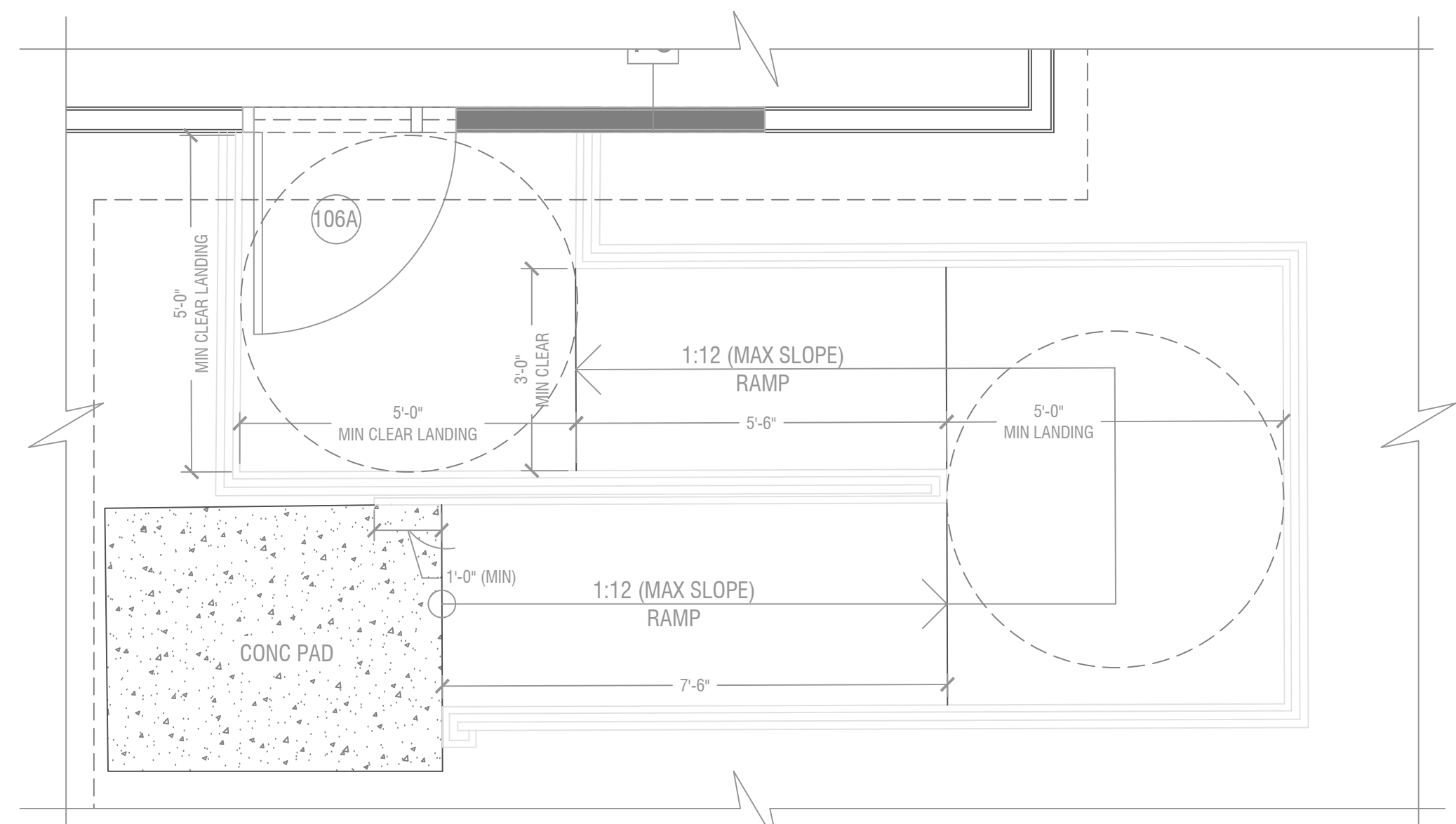
D:\PRODUCTION\23097 - 8705 E 63 ST - HALFWAY HOUSE\490 PROP HALFWAY HS CAD.DWG : 5/25/2024 11:06:13 AM : Vincin



REVIEWED FOR CODE COMPLIANCE
City Planning & Development
Development Services
City of Kansas City, Missouri

[Signature]
Jill Lau, P.E., M.C.P.
Building Official
Date: 07/24/2024 By: jplau

Case Number **CRBC-2023-40303**



63RD ST. PROPERTIES: HALFWAY HOUSE
8705 EAST 63RD TFWY
KANSAS CITY, MO 64133



JOB NO.:	23097
DATE:	09/27/2023
REVISIONS:	
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
SHEET NO.	
DETAILS, ENLARGED PLANS INTERIOR ELEVATIONS	
A401	

D:\PRODUCTION\23097 - 8705 E 63 ST - HALFWAY HOUSE\490 PROP HALFWAY HS CAD.DWG : 5/25/2024 11:06:13 AM : Vincin

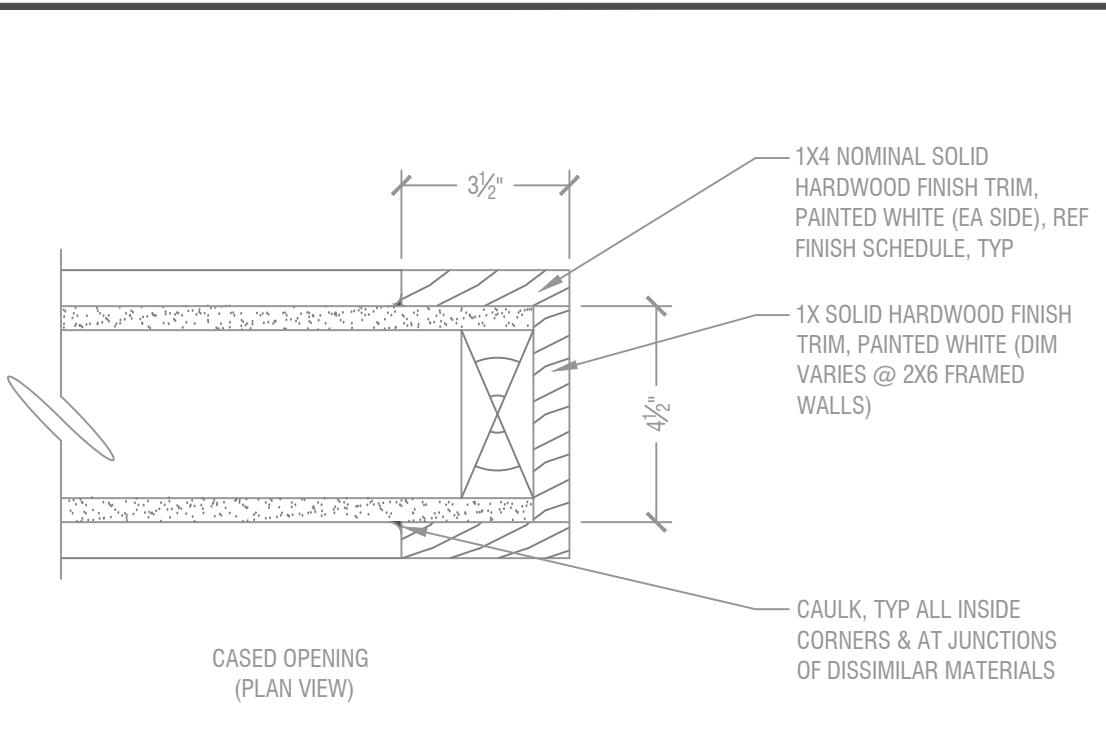


63RD ST. PROPERTIES: HALFWAY HOUSE
 8705 EAST 63RD TFWY
 KANSAS CITY, MO 64133

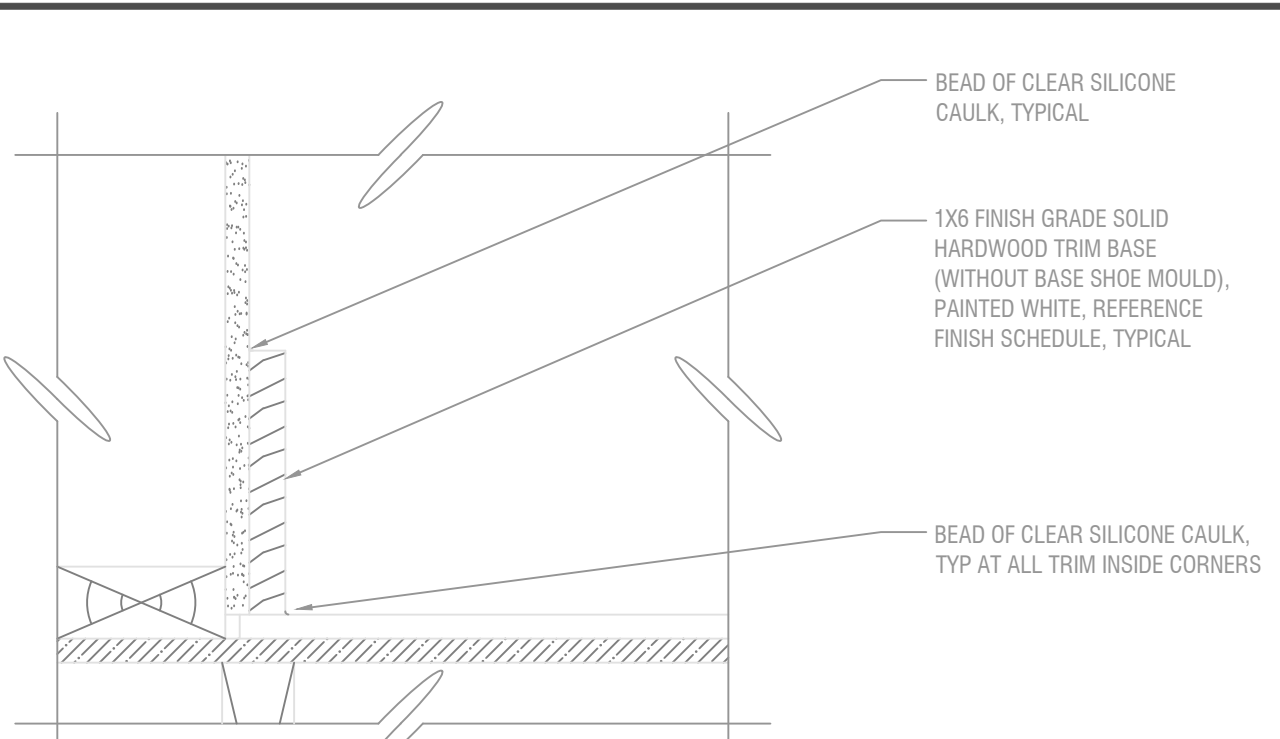


JOB NO.:	23097
DATE:	09/27/2023
REVISIONS:	
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
SHEET NO.	

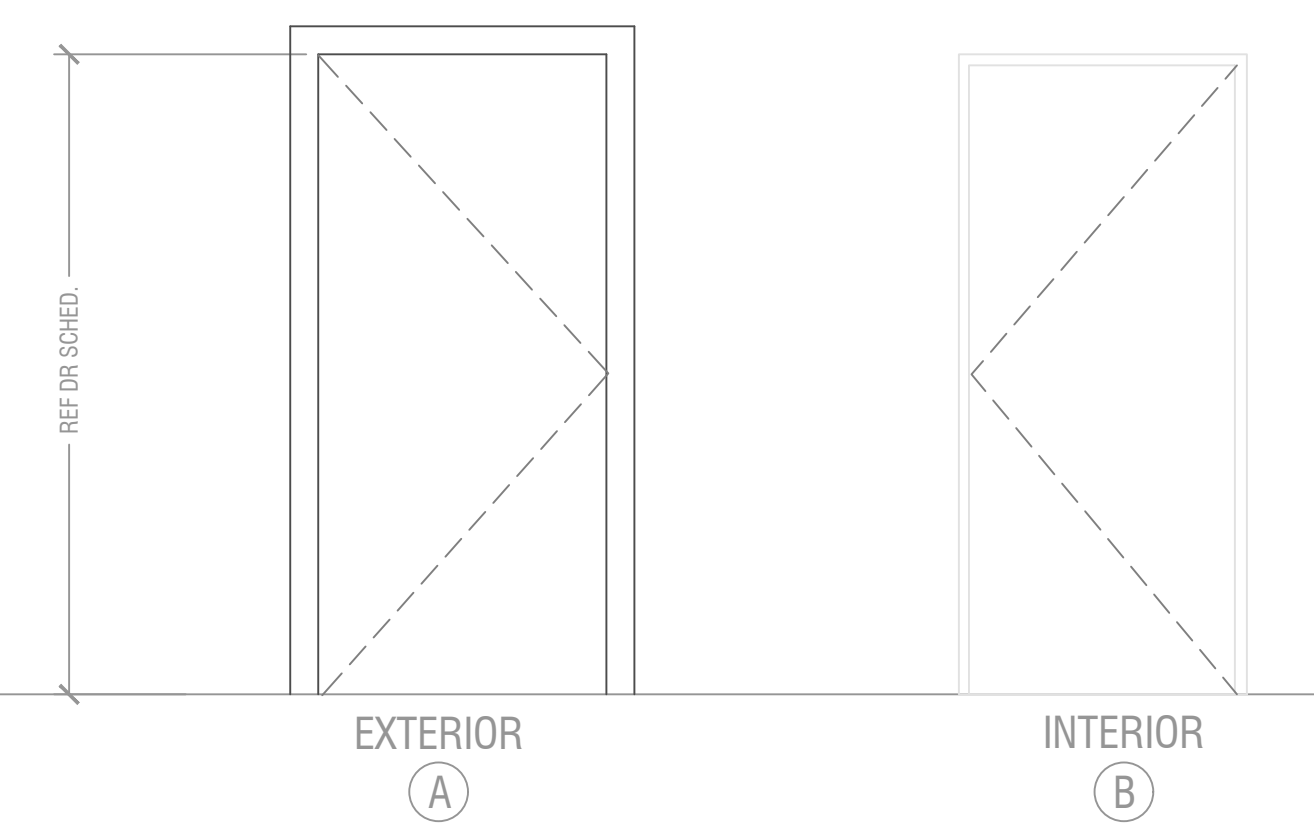
SCHEDULE
A600



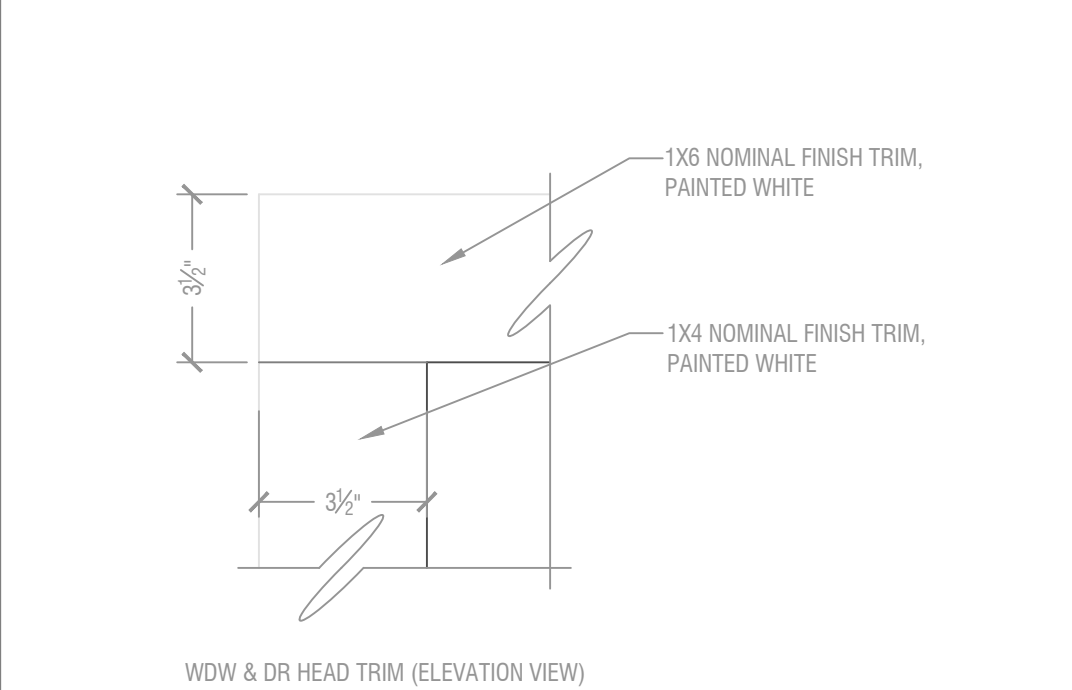
C1 CASED OPENING TRIM SECT DETAIL
SCALE: 3/8"=1'-0"



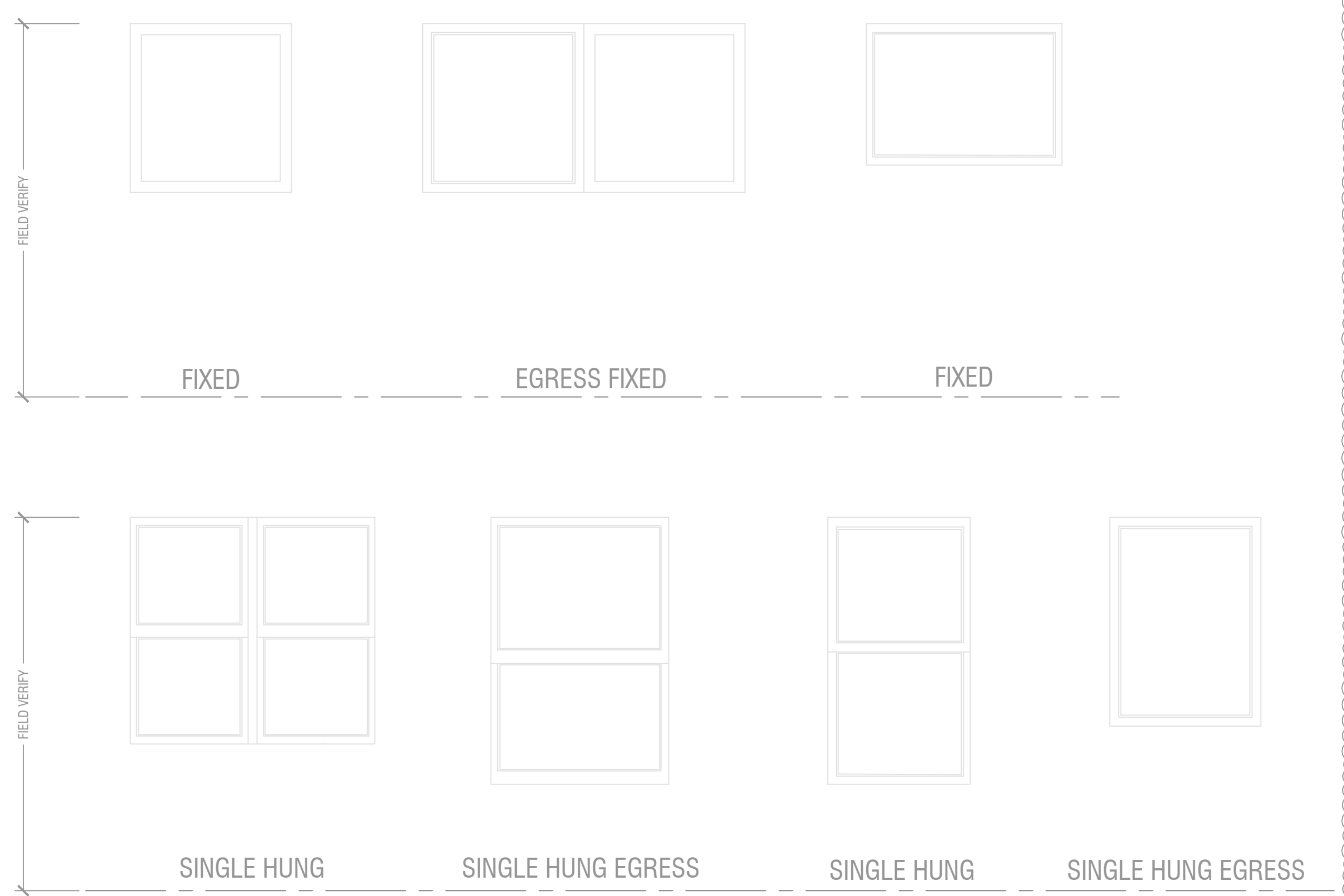
C2 BASE TRIM SECTION DETAIL
SCALE: 3/8"=1'-0"



B1 DOOR ELEVATIONS
SCALE: 1/2"=1'-0"
NOTE: BASIS OF DESIGN - MASONITE DOORS



B2 DOOR TRIM DETAIL
SCALE: 3/8"=1'-0"



WINDOW NOTES:

- GC IS RESPONSIBLE FOR WINDOWS ADHERING TO EGRESS WINDOW REGULATIONS PER LOCAL ADOPTED CODES
- ALL WINDOWS ARE ANDERSEN FIBREX, UNLESS OTHERWISE NOTED
- ALL WINDOWS HAVE FACTORY APPLIED PAINT BOTH INTERIOR & EXTERIOR, COLOR: BLACK

A1 WINDOW ELEVATIONS
SCALE: 1/2"=1'-0"

REVIEWED FOR CODE COMPLIANCE
 City Planning & Development
 Development Services
 City of Kansas City, Missouri
 Jeff Lee, P.E., M.C.P.
 Building Official
 Date: 07/04/2024 By: jlee

Case Number CRBC-2023-40303

DOOR SCHEDULE								HARDWARE SCHEDULE				
DOOR #	DIMENSIONS	DOOR ELEV	DOOR TYPE	DOOR MATERIAL	FINISH	PT COLOR	FIRE RATING	NOTES	HARDWARE TYPE	FINISH	MANUFACT'R	NOTES
0A	3'-0"X6'-8"	A	EXTERIOR	SOLID CORE	PAINT	WHITE			SECURITY SET	BY OWNER	KWIKSET	LEVER
0B	3'-0"X6'-8"	A	EXTERIOR	SOLID CORE	PAINT	WHITE			SECURITY SET	BY OWNER	KWIKSET	LEVER
0C	2'-6"X6'-8"	A	INTERIOR	HOLLOW	PAINT	WHITE	1 HOUR	**SEE NOTES	PASSAGE SET	BY OWNER	KWIKSET	LEVER
0D	2'-6"X6'-8"	A	INTERIOR	HOLLOW	PAINT	WHITE	1 HOUR	**SEE NOTES	PASSAGE SET	BY OWNER	KWIKSET	LEVER
0E	2'-6"X6'-8"	A	INTERIOR	HOLLOW	PAINT	WHITE	1 HOUR	**SEE NOTES	PASSAGE SET	BY OWNER	KWIKSET	LEVER
0F	3'-0"X6'-8"	A	INTERIOR	SOLID CORE	PAINT	WHITE	1 HOUR	**SEE NOTES	PASSAGE SET	BY OWNER	KWIKSET	*LEVER
1	3'-0"X6'-8"	A	INTERIOR	SOLID CORE	PAINT	WHITE	1 HOUR	**SEE NOTES	SECURITY SET	BY OWNER	KWIKSET	*LEVER
2	2'-6"X6'-8"	A	INTERIOR	HOLLOW	PAINT	WHITE			PRIVACY SET	BY OWNER	KWIKSET	LEVER
3	3'-0"X6'-8"	A	INTERIOR	SOLID CORE	PAINT	WHITE	1 HOUR	**SEE NOTES	SECURITY SET	BY OWNER	KWIKSET	*LEVER
4	2'-6"X6'-8"	A	INTERIOR	HOLLOW	PAINT	WHITE			PASSAGE SET	BY OWNER	KWIKSET	LEVER
5	3'-0"X6'-8"	A	INTERIOR	SOLID CORE	PAINT	WHITE	1 HOUR	**SEE NOTES	SECURITY SET	BY OWNER	SCHLAGE	LEVER
6	2'-0"X6'-8"	A	INTERIOR	HOLLOW	PAINT	WHITE			PRIVACY SET	BY OWNER	KWIKSET	LEVER
100A	2'-6"X6'-8"	A	INTERIOR	SOLID CORE	PAINT	WHITE	1 HOUR	**SEE NOTES	PRIVACY SET	BY OWNER	KWIKSET	*LEVER
100B	2'-0"X6'-8"	A	INTERIOR	HOLLOW	PAINT	WHITE			DUMMY SET	BY OWNER	KWIKSET	LEVER
101	2'-6"X6'-8"	A	INTERIOR	HOLLOW	PAINT	WHITE			PRIVACY SET	BY OWNER	KWIKSET	LEVER
102	2'-6"X6'-8"	A	INTERIOR	HOLLOW	PAINT	WHITE	1 HOUR	**SEE NOTES	PRIVACY SET	BY OWNER	KWIKSET	LEVER
103	2'-6"X6'-8"	A	INTERIOR	HOLLOW	PAINT	WHITE			PRIVACY SET	BY OWNER	KWIKSET	LEVER
104A	2'-6"X6'-8"	A	INTERIOR	SOLID CORE	PAINT	WHITE	1 HOUR	**SEE NOTES	SECURITY SET	BY OWNER	KWIKSET	*LEVER
104B	2'-0"X6'-8"	A	INTERIOR	HOLLOW	PAINT	WHITE			PRIVACY SET	BY OWNER	KWIKSET	LEVER
105	3'-0"X6'-8"	B	INTERIOR	HOLLOW	PAINT	WHITE		SLIDING HARDWARE	PRIVACY SET	BY OWNER	--	PULL/ADAAG
106A	3'-0"X6'-8"	A	EXTERIOR	SOLID CORE	PAINT	WHITE		**SEE NOTES	SECURITY SET	BY OWNER	SCHLAGE	LEVER
106B	2'-2"X6'-8"	A	INTERIOR	SOLID CORE	PAINT	WHITE	1 HOUR	**SEE NOTES	SECURITY SET	BY OWNER	KWIKSET	*LEVER
107	3'-0"X6'-8"	A	EXTERIOR	SOLID CORE	PAINT	WHITE			SECURITY SET	BY OWNER	SCHLAGE	LEVER
108	2'-6"X6'-8"	A	INTERIOR	SOLID CORE	PAINT	WHITE	1 HOUR	**SEE NOTES	SECURITY SET	BY OWNER	KWIKSET	*LEVER
200	3'-0"X6'-8"	A	INTERIOR	SOLID CORE	PAINT	WHITE	1 HOUR	**SEE NOTES	SECURITY SET	BY OWNER	KWIKSET	LEVER
201	2'-6"X6'-8"	A	INTERIOR	HOLLOW	PAINT	WHITE			PRIVACY SET	BY OWNER	KWIKSET	LEVER
203	4'-0"X6'-8"	A	INTERIOR	HOLLOW	PAINT	WHITE			DUMMY SET	BY OWNER	KWIKSET	LEVER
204	2'-6"X6'-8"	A	INTERIOR	SOLID CORE	PAINT	WHITE	1 HOUR	**SEE NOTES	SECURITY SET	BY OWNER	KWIKSET	*LEVER
205	3'-0"X6'-8"	A	INTERIOR	SOLID CORE	PAINT	WHITE	1 HOUR	**SEE NOTES	PASSAGE SET	BY OWNER	KWIKSET	*LEVER
206	2'-6"X6'-8"	A	INTERIOR	HOLLOW	PAINT	WHITE			PRIVACY SET	BY OWNER	KWIKSET	LEVER
207A	2'-6"X6'-8"	A	INTERIOR	SOLID CORE	PAINT	WHITE	1 HOUR	**SEE NOTES	SECURITY SET	BY OWNER	KWIKSET	*LEVER
207B	2'-2"X6'-8"	A	INTERIOR	HOLLOW	PAINT	WHITE			PASSAGE SET	BY OWNER	KWIKSET	LEVER
208	2'-6"X6'-8"	A	INTERIOR	SOLID CORE	PAINT	WHITE	1 HOUR	**SEE NOTES	SECURITY SET	BY OWNER	KWIKSET	*LEVER

*NOTE: ACCESSIBLE LOW PROFILE THRESHOLD TO ADHERE TO ADAAG STANDARDS
 **NOTE: FIRE RATED DOORS & HARDWARE TO INCLUDE AUTOMATIC DOOR CLOSERS & LABELED PER NFPA 80

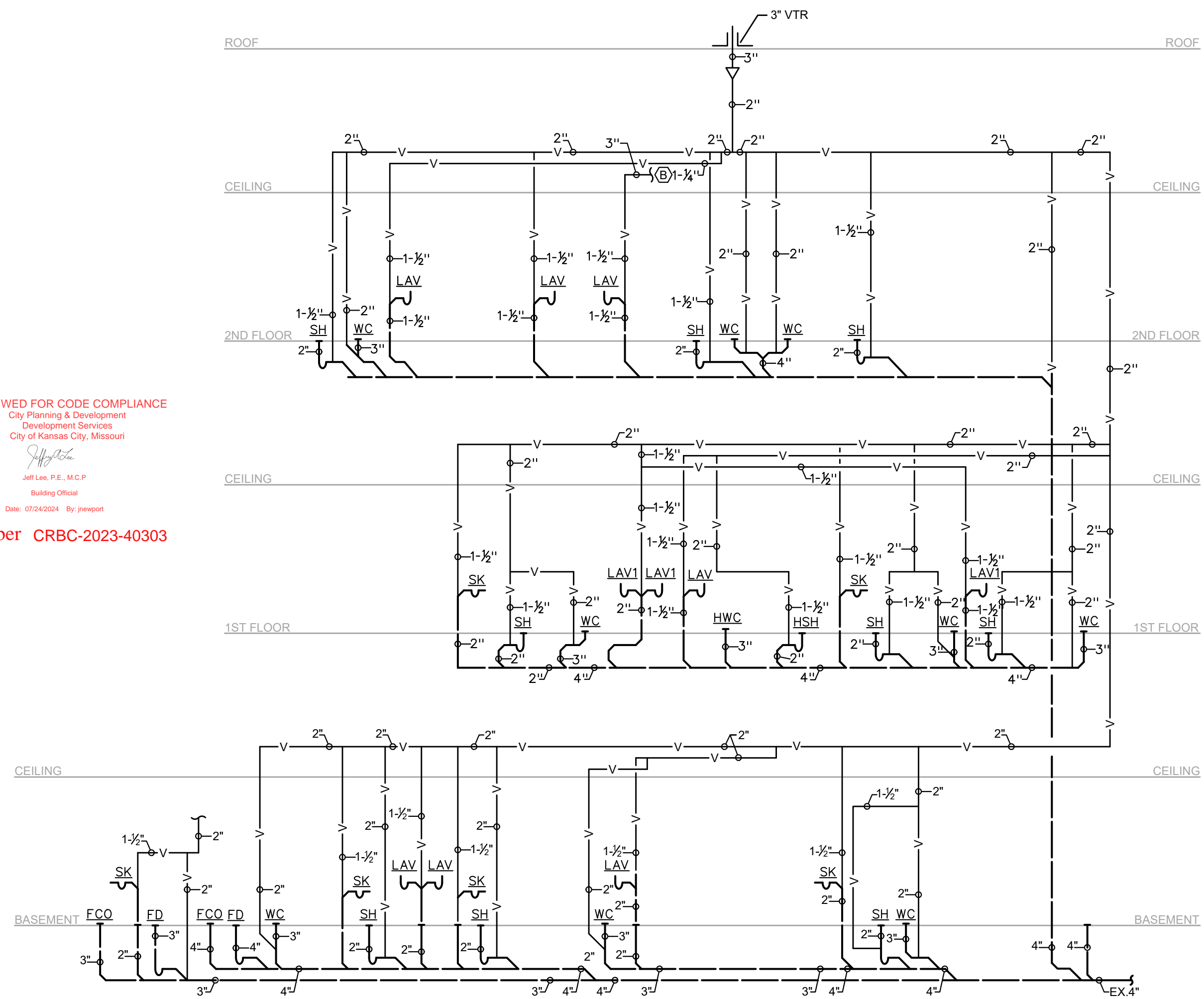
A2 DOOR/HARDWARE SCHEDULE
SCALE: NTS

D:\PRODUCTION\23097 - 8705 E 63 ST - HALFWAY HOUSE\490 PROP HALFWAY HS CAD.DWG : 5/25/2024 11:06:13 AM : Vincin

C:\GEG PROJECTS\PROJECTS 23\AEC_23097F_63RD ST HALF WAY HOUSE_MP300_2023-10-29_24X36_GFG.DWG : 7/11/2024 10:48:38 PM : GFG/Gladfelter

REVIEWED FOR CODE COMPLIANCE
 City Planning & Development
 Development Services
 City of Kansas City, Missouri
 Jeff Lee, P.E., M.C.P.
 Building Official
 Date: 07/24/2024 By: jlee

Case Number CRBC-2023-40303



RISER DIAGRAM - WASTE & VENT
 NO SCALE

DUCTLESS SPLIT SYSTEM HEAT PUMP AIR CONDITIONING UNIT SCHEDULE

DSS #	TYPE	INDOOR UNIT			OUTDOOR UNIT			INDOOR UNIT ELECTRICAL			OUTDOOR UNIT ELECTRICAL			REFERENCE MANUFACTURER AND MODEL NO.	NOTES
		AIRFLOW (CFM, HI SPD)	TOTAL COOLING (MBH) (WET COIL)	TOTAL HEATING (MBH) (847°F)	MIN SEER	TOTAL COOLING (MBH)	TOTAL HEATING (MBH)	MCA	VOLT	PHASE	VOLT	PHASE	HERTZ		
1	WALL MOUNTED	-	-	-	18.9	18.0	18.9	POWER SUPPLIED FROM OUTDOOR UNIT	208/230	1	60	20	30	DAIKIN#2MXS18NMVJUA	1-4
2	WALL MOUNTED	-	-	-	17.7	36.0	36.0	POWER SUPPLIED FROM OUTDOOR UNIT	208/230	1	60	23.9	30	DAIKIN#4MXS36RMVJUA	1-4

NOTES:
 1. ALL CONDENSING UNITS ARE HORIZONTAL DISCHARGE.
 2. COORDINATE REFRIGERANT PIPE SIZES TO PROVIDE CAPACITIES SHOWN.
 3. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCE FOR OUTDOOR UNITS.
 4. TWO INDOOR UNITS ONE OUTDOOR UNIT.

WATER HEATER SCHEDULE (ELECTRIC)

MARK NO.	MANUFACTURER	MODEL NO.	TYPE	ASME	TANK LINING	STORAGE (GALLONS)	RECOVERY GAL/HR	TEMP RISE °F	DISCH. SET POINT °F	ELECTRICAL	REMARKS
1	-	-	TK	N	GL	40	-	-	120	4.5 240 1 60	1

NOTES:
 1. PROVIDE WITH ASME RATED P&T VALVE, DRAIN VALVE WITH HOSE THREAD OUTLET AND STAND AND/OR DRAIN PAN WHERE INDICATED.

WATER HAMMER ARRESTOR SCHEDULE

MARK NO.	MANUFACTURER	MODEL NO.	PDI UNIT RATING	FIXTURE UNIT CAPACITY	REMARKS
AA	SIoux CHIEF	660 SERIES	AA	4 (SINGLE FIXT)	X
A	SIoux CHIEF	652	A	1 - 11	X
B	SIoux CHIEF	653	B	12 - 32	X
C	SIoux CHIEF	654	C	33 - 60	X
D	SIoux CHIEF	655	D	61 - 113	X
X	X	X	X	X	X

NOTES:
 1. INSTALL IN AN ACCESSIBLE LOCATION IN ACCORDANCE WITH THE PLUMBING CODE.

EXPANSION TANK SCHEDULE

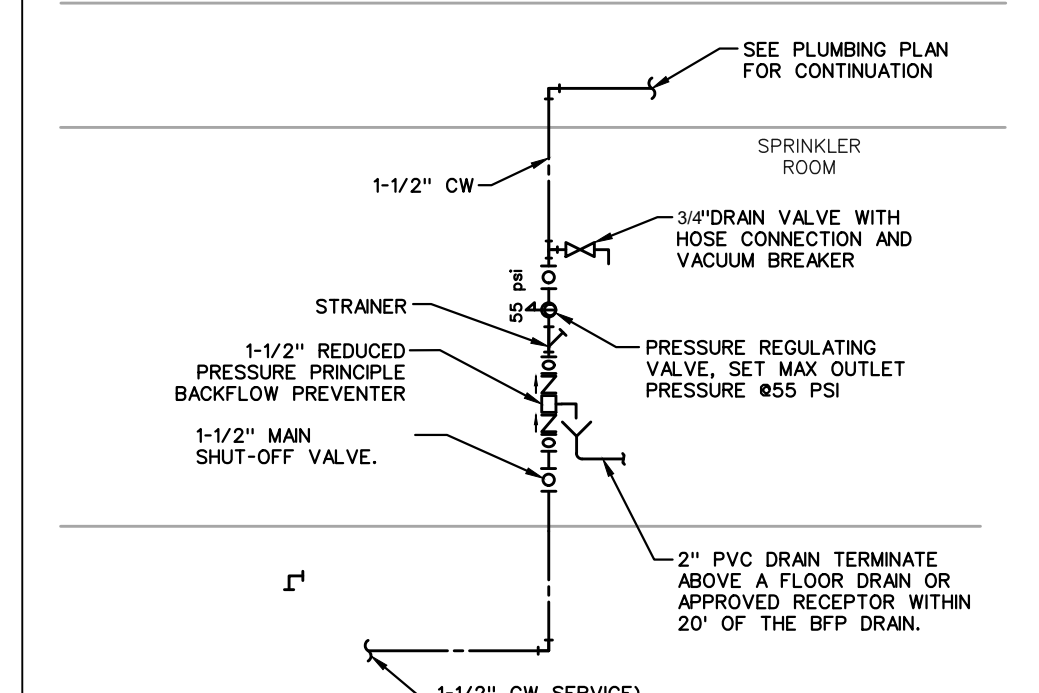
MARK NO.	MANUFACTURER	MODEL NO.	TYPE ARRANGEMENT	CAPACITY (GAL)	ASME	MAX WORKING PRESSURE (PSIG)	MAX OPERATING TEMP (°F)	REMARKS
1	ELBI	DTS-45	-	2.1	N	150	210	1

NOTES:
 1. PROVIDE POLYPROPYLENE LINED BLADDER TYPE EXPANSION TANK WITH BUTYL RUBBER DIAPHRAGM, AIR CHARGE & SYSTEM CONNECTION FITTING, MOUNING HARDWARE.

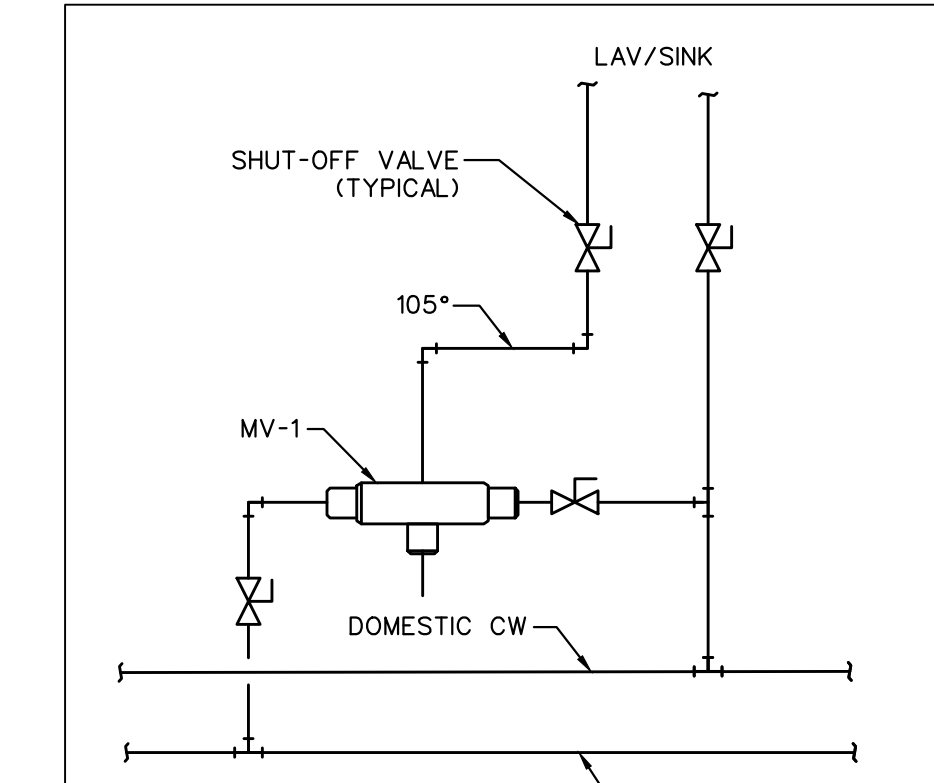
FIXTURE BRANCH SCHEDULE

FIXTURE	WASTE	VENT	COLD	HOT
Water Closet (ft)	4"	2"	1/2"	---
Water Closet (fv)	4"	2"	1"	---
Urinal	2"	1 1/2"	3/4"	---
Lavatory	1 1/2"	1 1/2"	1/2"	1/2"
Sink	2"	1 1/2"	1/2"	1/2"
Triple Sink	2"	1 1/2"	(2) 1/2"	(2) 1/2"
Shower, Tub	2"	1 1/2"	1/2"	1/2"
Water Fountain	1 1/2"	1 1/2"	1/2"	---
Janitor Sink (fir)	3"	2"	3/4"	3/4"
Janitor Sink (wall)	2"	1 1/2"	1/2"	1/2"
Floor Drain	2"	1 1/2"	---	---
Floor Sink	3"	2"	---	---
Eqpt Floor Drain	3"	2"	---	---
Hub Drain	2"	1 1/2"	---	---
Dishwasher	2"	1 1/2"	---	1/4"
Washer Box	2"	1 1/2"	1/2"	1/2"
Ice Maker	---	---	1/2"	---
FPWH, HB	---	---	3/4"	---

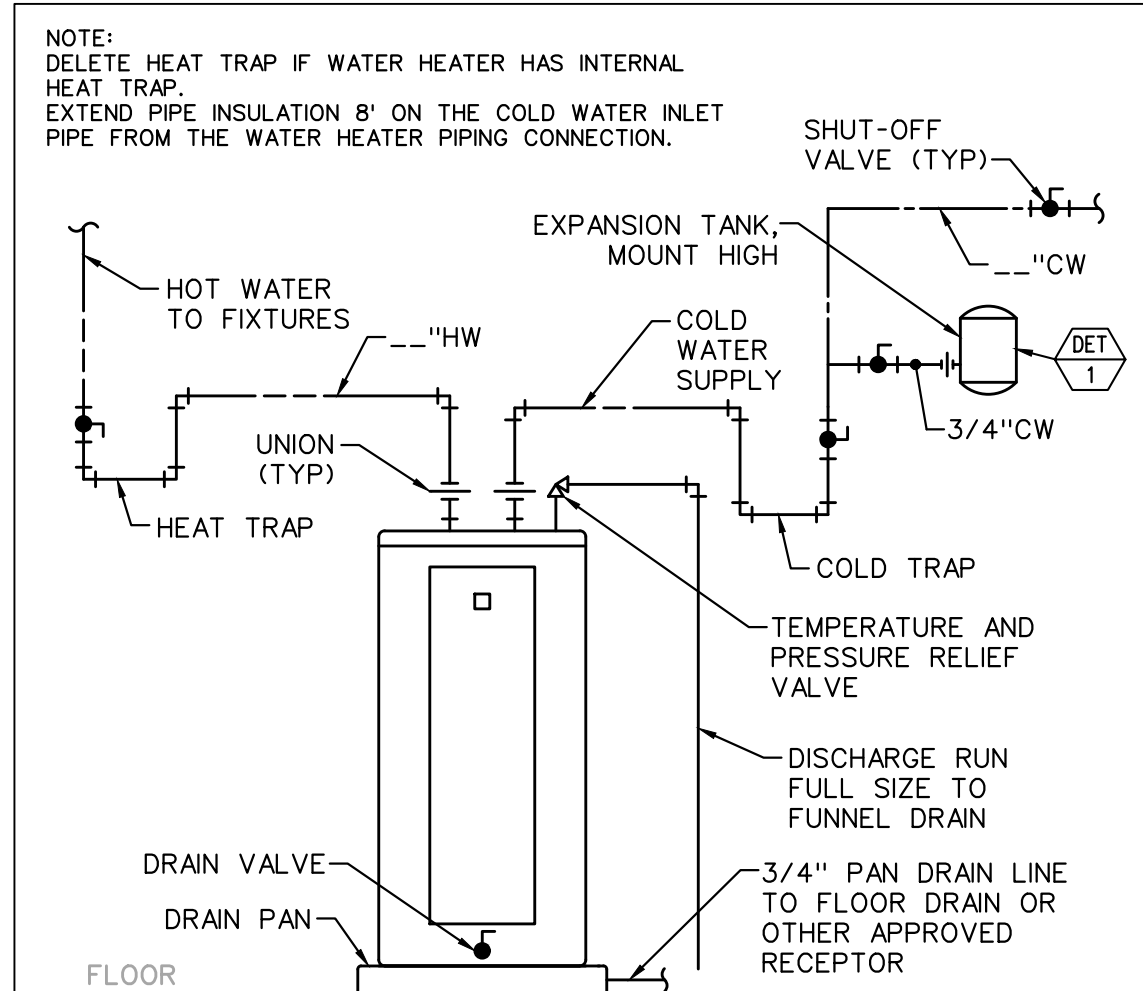
1. Minimum waste or vent size below slab on grade shall be 2".
 2. Size as shown on drawings and diagrams, but not less than listed.



DOMESTIC WATER SERVICE ENTRANCE
 NO SCALE (KCMO)



MIXING VALVE DETAIL
 NO SCALE



ELECTRIC WATER HEATER DETAIL
 NO SCALE

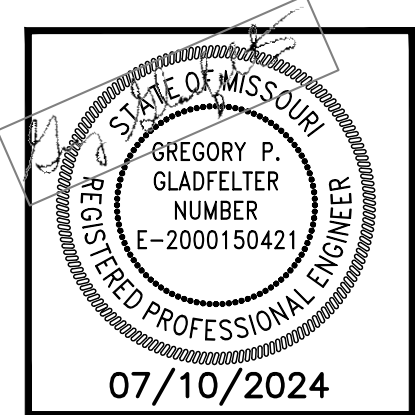


HALFWAY HOUSE
 8705 E 63rd ST
 KCMO



JOB NO.: 23097F
 DATE: 10/30/2023
 REVISIONS:
 10/30/2023 PERMIT
 12/27/2023 ADDENDUM #1
 07/10/2024 ADDENDUM #3
 DESIGNED BY: GEG
 DRAWN BY: GEG
 CHECKED BY: GEG
 SHEET NO.

MP300



HALFWAY HOUSE
8705 E 63rd ST
KCMO



JOB NO.:	23097F
DATE:	10/30/2023
REVISIONS:	
10/30/2023	PERMIT
12/27/2023	ADDENDUM #1
07/10/2024	ADDENDUM #3
DESIGNED BY:	GEG
DRAWN BY:	GEG
CHECKED BY:	GEG
SHEET NO.	

MPE400

System No. C-AJ-1291
F Rating — 2 Hr
T Rating — 0 Hr

ANSI/UL1479 (ASTM E814)	CANULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr

SECTION A-A

- Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 8 in. (203 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- Through Penetrant — One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and opening shall be min 0 in. (point contact) to max 3-1/2 in. (89 mm). Pipe to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipes may be used:
 - Polyvinyl Chloride (PVC) Pipe — Nom. 4 in. (102 mm) diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom. 4 in. (102 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom. 4 in. (102 mm) diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Flame Retardant Polypropylene (FRPP) Pipe — Nom. 4 in. (102 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- Firestop System — The firestop system shall consist of the following:
 - Fill, Void or Cavity Material* — Mortar — Min 2-1/2 in. (64 mm) thickness of fill material applied within the annulus between penetrant and periphery of opening, flush with bottom surface of floor or both surfaces of wall.
 - Firestop Device* — Firestop Collar — Firestop collar to be sized for nom diam of penetrant and to be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to the concrete and mortar (Item 3A) at underside of floor or both sides of wall using the anchor hooks provided with the collar. (Minimum 2 anchor hooks for 1-1/2 and 2 in. (38 and 51 mm) diam pipes, 3 anchor hooks for 3 and 4 in. (76 and 102 mm) diam pipes). The anchor hooks are to be secured to CP 637 mortar with min 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long concrete screw anchors or Hilti 1/4 in. (6 mm) diam by 1-1/4 in. (32 mm) long KWIK-CON II* concrete screw anchors. The anchor hooks are to be secured to concrete floor or wall with min 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel expansion bolts or min 0.145 in. (3.7 mm) diam by 1-1/4 in. (32 mm) long powder actuated fasteners utilizing a 1-7/16 in. (36 mm) diam by 1/16 in. (1.6 mm) thick steel washer. As alternate to the anchors specified above for concrete, Hilti 1/4 in. (6 mm) diam by 1-1/4 in. (32 mm) long KWIK-CON II* concrete screw anchor or Hilti 1/4 in. (6 mm) diam by 1-3/4 in. (44 mm) long KWIK-BOULT 3 steel expansion anchor or Hilti X-DNI 27 P8 S15 powder actuated floor pin with integral nom 9/16 in. (14 mm) diam washer may be used. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — CP 643 5011.5N, CP 643 6327N, CP 643 9032N, CP 643 11047N Firestop Collar

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 07, 2015

System No. F-C-2030
F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, 3/4, 1, 1-1/2 and 2 Hr (See Item 3)

SECTION A-A

- Chase Wall — (Optional) - The through penetrant (Item 3) may be routed through a fire-rated or non-rated single, double or staggered wood stud/gypsum wallboard chase wall having a fire rating consistent with that of the floor-ceiling assembly. The chase wall shall be constructed to include the following construction features:
 - Studs — Nom 2 by 4 in. (51 by 152 mm) or double nom 2 by 4 in. (51 by 102 mm) lumber studs.
 - Sole Plate — Nom 2 by 6 in. (51 by 152 mm) (or larger) or parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Diam of opening shall be 1 in. (25 mm) larger than the nom diam of through-penetrant (Item 3).
 - Top Plate — The double top plate shall consist of two nom 2 by 6 in. (51 by 152 mm) (or larger) or parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Diam of opening shall be 1 in. (25 mm) larger than the nom diam of through-penetrant (Item 3).
 - Gypsum Board* — One or two layers of min 1/2 in. (13 mm) gypsum board.
- Through Penetrants — One nom 1-1/2 in. (38 mm), 2 in. (51 mm), 3 in. (76 mm) or 4 in. (102 mm) diam nonmetallic pipe to be installed within the firestop system. Diam of opening through flooring system and through sole and top plates of chase wall to be max 2-1/8 in. (54 mm), 2-5/8 in. (67 mm), 4 in. (102 mm) or 5 in. (127 mm) for nom 1-1/2 in. (38 mm), 2 in. (51 mm), 3 in. (76 mm) or 4 in. (102 mm) diam nonmetallic pipe sizes, respectively. Pipe to be rigidly supported on both sides of the floor-ceiling assembly. The T Rating is dependent on the size of the through-penetrant. For 2 hr rated assemblies, the T Rating is 2 hr for 1-1/2 in. (38 mm) diam (and smaller) pipes and 1-1/2 hr for pipes greater than 1-1/2 in. (38 mm) diam. For 1 hr rated assemblies, the T Rating is 1 hr for 1-1/2 in. (38 mm) diam (and smaller) pipes, 3/4 hr for 2 in. (51 mm) diam pipes and 0 hr for pipes greater than 2 in. (51 mm) diam. The following types of nonmetallic pipes may be used:
 - Polyvinyl Chloride (PVC) Pipe — Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe — SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Acrylonitrile Butadiene Styrene (ABS) Pipe — Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Flame Retardant Polypropylene (FRPP) Pipe — Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
- Firestop System — The details of the firestop system shall be as follows:
 - Fill, Void or Cavity Material* — Sealant — Min 3/4 in. (19 mm) thickness of fill material to be installed within the annular space between the pipe and the flooring (Item 1A) or sole plate. Min 5/8 in. (16 mm) thickness applied within the annular space, flush with the bottom surface of ceiling or lower top plate.
 - Firestop Device* — Firestop Collar — Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to underside of ceiling or chase wall top plate (Item 2C) using the anchor hooks provided with the collar. (Minimum 2 anchor hooks for 1-1/2 (38 mm) and 2 in. (51 mm) diam pipes and 3 anchor hooks for 3 in. (76 mm) diam pipes). The anchor hooks are to be secured to the ceiling with min 3/16 in. (5 mm) diam steel toggle bolts or to the chase wall top plate with min No. 12 by min 1 in. (25 mm) long steel wood screws in conjunction with steel washers.

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. March 14, 2018

System No. F-C-1009
F Rating — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr

ANSI/UL1479 (ASTM E814)	CANULC S115
F Rating — 1 and 2 Hr (See Item 1)	F Rating — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less than 1 CFM/Sq Ft	FH Rating — 1 and 2 Hr (See Item 1)
L Rating At 400 F — 4 CFM/Sq Ft	FTH Rating — 1/4 Hr
	L Rating At Ambient — Less than 1 CFM/Sq Ft
	L Rating At 400 F — 4 CFM/Sq Ft

SECTION A-A

- Floor-Ceiling Assembly — The 1 or 2 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 F Rating of the firestop system is equal to the rating of the floor-ceiling and wall assemblies. The general construction features of the floor-ceiling assembly are summarized below:
 - Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Diam of opening shall be 1 in. (25 mm) larger than the nom diam of through-penetrant* (Item 3).
 - 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.
 - Gypsum Board* — Thickness, type, number of layers and fasteners shall be as specified in the individual Floor-Ceiling Design. Diam of opening shall be 1 in. (25 mm) larger than the nom diam of through-penetrant (Item 3).
 - Furring Channels — (Not Shown) (As required) - Resilient galvanized steel furring installed in accordance with the manner specified in the individual L500 Series Designs in the Fire Resistance Directory.
- Chase Wall — (Optional) - The through penetrant (Item 3) may be routed through a fire rated or non-rated single, double, or staggered wood stud/gypsum board chase wall. Depth of chase wall to be min 1 in. greater than the diameter of the through penetrant. The chase wall shall be constructed to include the following construction features:
 - 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. Nom 2 by 4 in. (51 by 102 mm) studs are allowed for through-penetrants (Item 3) not exceeding nom 2 in. (51 mm) diam.
 - 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. Diam of opening is to be max 1 in. (25 mm) larger than diam of pipe. As an alternate, the opening may be square-cut with a max dimension 1 in. (25 mm) greater than the diam of pipe. Plates may be square-cut with a max dimension 1 in. (25 mm) greater than diam of through penetrant.
 - Top Plate — The double top plate shall consist of two nom 2 by 4 in. (51 by 152 mm), 2 by 6 in. (51 by 102 mm) and two sets of parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Diam of opening is to be max 1 in. (25 mm) larger than diam of pipe. As an alternate, the opening may be square-cut with a max dimension 1 in. (25 mm) greater than the diam of the pipe. Plates may be square-cut with a max dimension 1 in. (25 mm) greater than diam of through penetrant.
 - Gypsum Board* — One or two layers of min 1/2 in. (13 mm) gypsum board.
 - Steel Plate — (Not Shown) When lumber plates are discontinuous, nom 1-1/2 in. (38 mm) wide No. 20 gauge (or heavier) galv steel plates shall be installed to connect each discontinuous lumber plate and to provide a form for the fill material. Steel plates sized to lap 2 in. (51 mm) onto each discontinuous lumber plate and secured to lumber plates with steel screws or nails.
- Through Penetrants — One metallic pipe, conduit or tubing to be installed within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor assembly. The annular space within the firestop system shall be min 0 in. (point contact) to max 1 in. (25 mm). The following types and sizes of metallic pipes or conduits may be used:
 - Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
 - Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or steel conduit.
 - Copper Tubing — Nom (102 mm) 4 in. diam (or smaller) Regular (or heavier) copper tubing.
 - Copper Pipe — Nom (102 mm) 4 in. diam (or smaller) Regular (or heavier) copper pipe.
- Fill, Void or Cavity Material* — Sealant — Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with bottom surface of ceiling or lower top plate.

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. March 08, 2018

System No. C-AJ-2630
F Rating — 2 Hr
T Rating — 1-1/2 Hr

SECTION A-A

- Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 8 in. (203 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants — One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and opening shall be min 0 in. (point contact) to max 3-1/2 in. (89 mm). Pipe to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipes may be used:
 - Polyvinyl Chloride (PVC) Pipe — Nom. 4 in. (102 mm) diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom. 4 in. (102 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom. 4 in. (102 mm) diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Flame Retardant Polypropylene (FRPP) Pipe — Nom. 4 in. (102 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- Firestop System — The firestop system shall consist of the following:
 - Fill, Void or Cavity Material* — Mortar — Min 2-1/2 in. (64 mm) thickness of fill material applied within the annulus between penetrant and periphery of opening, flush with bottom surface of floor or both surfaces of wall.
 - Firestop Device* — Firestop Collar — Firestop collar to be sized for nom diam of penetrant and to be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to the concrete and mortar (Item 3A) at underside of floor or both sides of wall using the anchor hooks provided with the collar. (Minimum 2 anchor hooks for 1-1/2 and 2 in. (38 and 51 mm) diam pipes, 3 anchor hooks for 3 and 4 in. (76 and 102 mm) diam pipes). The anchor hooks are to be secured to CP 637 mortar with min 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long concrete screw anchors or Hilti 1/4 in. (6 mm) diam by 1-1/4 in. (32 mm) long KWIK-CON II* concrete screw anchors. The anchor hooks are to be secured to concrete floor or wall with min 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel expansion bolts or min 0.145 in. (3.7 mm) diam by 1-1/4 in. (32 mm) long powder actuated fasteners utilizing a 1-7/16 in. (36 mm) diam by 1/16 in. (1.6 mm) thick steel washer. As alternate to the anchors specified above for concrete, Hilti 1/4 in. (6 mm) diam by 1-1/4 in. (32 mm) long KWIK-CON II* concrete screw anchor or Hilti 1/4 in. (6 mm) diam by 1-3/4 in. (44 mm) long KWIK-BOULT 3 steel expansion anchor or Hilti X-DNI 27 P8 S15 powder actuated floor pin with integral nom 9/16 in. (14 mm) diam washer may be used. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — CP 643 5011.5N, CP 643 6327N, CP 643 9032N, CP 643 11047N Firestop Collar

*Bearing the UL Classification Mark

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. July 13, 2009

UL SYSTEM NO. F-C-2204
PLASTIC PIPE THROUGH WOOD FLOOR/CEILING ASSEMBLY
F-RATING = 1-HR.
T-RATING = 1/2-HR.

SECTION A-A

- WOOD FLOOR/CEILING ASSEMBLY (UL CLASSIFIED L500 SERIES) (1-HR. FIRE-RATING).
- LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD, OR FLOOR TOPPING MIXTURE.
- MAXIMUM 1-1/2" NOMINAL DIAMETER PVC OR ABS PLASTIC PIPE (SCHEDULE 40) AND DRAIN FITTINGS CEMENTED TOGETHER WITH PVC OR ABS BATHUB WASTE/OVERFLOW FITTINGS.
- 3/4" THICK PLYWOOD PATCH SIZED TO OVERLAP MINIMUM 2" BEYOND EACH EDGE OF RECTANGULAR OPENING. TWO PIECES POSITIONED AROUND DRAIN PIPING WITH CUT EDGES TIGHTLY BUTTED, AND SCREW ATTACHED TO UNDERSIDE OF SUBFLOOR WITH 1-1/4" LONG STEEL SCREWS (SPACED MAXIMUM 6" C/C). (SEE NOTE NO. 3 BELOW).
- MINIMUM 5/8" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
- MINIMUM 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES: 1. MAXIMUM SIZE OF OPENING = 12" x 8".
2. ANNULAR SPACE BETWEEN DRAIN PIPING AND PATCH = MINIMUM 0", MAXIMUM 1".
3. AS AN ALTERNATE TO PLYWOOD, 5/8" THICK GYPSUM WALL BOARD MAY BE USED.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. March 08, 2018

System No. F-C-1009
F Rating — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr

ANSI/UL1479 (ASTM E814)	CANULC S115
F Rating — 1 and 2 Hr (See Item 1)	F Rating — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less than 1 CFM/Sq Ft	FH Rating — 1 and 2 Hr (See Item 1)
L Rating At 400 F — 4 CFM/Sq Ft	FTH Rating — 1/4 Hr
	L Rating At Ambient — Less than 1 CFM/Sq Ft
	L Rating At 400 F — 4 CFM/Sq Ft

SECTION A-A

- Floor-Ceiling Assembly — The 1 or 2 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 F Rating of the firestop system is equal to the rating of the floor-ceiling assembly. The general construction features of the floor-ceiling assembly are summarized below:
 - Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Diam of opening to be max 1 in. (25 mm) larger than diam of pipe. As an alternate, the opening may be square-cut with a max dimension 1 in. (25 mm) greater than diam of pipe.
 - 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.
 - Furring Channels — (Not Shown) (As required) - Resilient galvanized steel furring installed in accordance with the manner specified in the individual L500 Series Designs in the Fire Resistance Directory.
 - Gypsum Board* — Thickness, type, number of layers and fasteners shall be as specified in the individual Floor-Ceiling Design. Diam of opening to be max 1 in. (25 mm) larger than diam of pipe.
- Chase Wall — (Optional) - The through penetrant (Item 3) may be routed through a fire rated or non-rated single, double, or staggered wood stud/gypsum board chase wall. Depth of chase wall to be min 1 in. greater than the diameter of the through penetrant. The chase wall shall be constructed to include the following construction features:
 - 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. Nom 2 by 4 in. (51 by 102 mm) studs are allowed for through-penetrants (Item 3) not exceeding nom 2 in. (51 mm) diam.
 - 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. Diam of opening is to be max 1 in. (25 mm) larger than diam of pipe. As an alternate, the opening may be square-cut with a max dimension 1 in. (25 mm) greater than the diam of pipe. Plates may be square-cut with a max dimension 1 in. (25 mm) greater than diam of through penetrant.
 - Top Plate — The double top plate shall consist of two nom 2 by 4 in. (51 by 152 mm), 2 by 6 in. (51 by 102 mm) and two sets of parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Diam of opening is to be max 1 in. (25 mm) larger than diam of pipe. As an alternate, the opening may be square-cut with a max dimension 1 in. (25 mm) greater than the diam of the pipe. Plates may be square-cut with a max dimension 1 in. (25 mm) greater than diam of through penetrant.
 - Gypsum Board* — One or two layers of min 1/2 in. (13 mm) gypsum board.
 - Steel Plate — (Not Shown) When lumber plates are discontinuous, nom 1-1/2 in. (38 mm) wide No. 20 gauge (or heavier) galv steel plates shall be installed to connect each discontinuous lumber plate and to provide a form for the fill material. Steel plates sized to lap 2 in. (51 mm) onto each discontinuous lumber plate and secured to lumber plates with steel screws or nails.
- Through Penetrants — One metallic pipe, conduit or tubing to be installed within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor assembly. The annular space within the firestop system shall be min 0 in. (point contact) to max 1 in. (25 mm). The following types and sizes of metallic pipes or conduits may be used:
 - Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
 - Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or steel conduit.
 - Copper Tubing — Nom (102 mm) 4 in. diam (or smaller) Regular (or heavier) copper tubing.
 - Copper Pipe — Nom (102 mm) 4 in. diam (or smaller) Regular (or heavier) copper pipe.
- Fill, Void or Cavity Material* — Sealant — Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with bottom surface of ceiling or lower top plate.

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. March 08, 2018

System No. W-L-1297
F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr
L Rating at Ambient — Less than 1 CFM/Sq Ft
L Rating at 400° F — Less than 1 CFM/Sq Ft

SECTION A-A

- Wall Assembly — The 1 or 2 hr fire rated gypsum board/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:
 - Studs — Wall framing shall 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.
 - Gypsum Board* — Nom 5/8 in. (16 mm) thick, 1 1/2 in. (38 mm) 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 U300, U400 or V400 Series Design in the Fire Resistance Directory. Max diam of opening is 32 in. (813 mm).
- Through Penetrant — One metallic pipe, conduit or tubing installed concentrically or eccentrically within the firestop system. Pipe, conduit or tube to be rigidly supported on both sides of wall assembly. The annular space between the pipe, conduit or tube and periphery of the opening shall be min 0 in. (point contact) to max 2 in. (51 mm) in 2 hr fire rated walls and min 0 in. (point contact) to max 1 in. (25 mm) in 1 hr fire rated walls. As an option, for through penetrant types 2A, 2B and 2C only in nom diameters not exceeding 4 in. (102 mm), the penetrant can be installed with continuous point contact. The following types and sizes of metallic pipes, conduit or tube may be used:
 - Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
 - Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
 - Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or 6 in. diam steel conduit.
 - Copper Tube — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
 - Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
- Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) or 1-1/4 in. (32 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall, for 1 hr and 2 hr fire rated wall assemblies, respectively. A min 1/2 in. (13 mm) diam bead of fill material shall be applied at the spewel interface at the point contact and continuous point contact location.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — CP606 Flexible Firestop Sealant
*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. June 29, 2017

System No. W-L-1297
F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr
L Rating at Ambient — Less than 1 CFM/Sq Ft
L Rating at 400° F — Less than 1 CFM/Sq Ft

SECTION A-A

- Wall Assembly — The 1 or 2 hr fire rated gypsum board/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:
 - Studs — Wall framing shall 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.
 - Gypsum Board* — Nom 5/8 in. (16 mm) thick, 1 1/2 in. (38 mm) 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 U300, U400 or V400 Series Design in the Fire Resistance Directory. Max diam of opening is 32 in. (813 mm).
- Through Penetrant — One metallic pipe, conduit or tubing installed concentrically or eccentrically within the firestop system. Pipe, conduit or tube to be rigidly supported on both sides of wall assembly. The annular space between the pipe, conduit or tube and periphery of the opening shall be min 0 in. (point contact) to max 2 in. (51 mm) in 2 hr fire rated walls and min 0 in. (point contact) to max 1 in. (25 mm) in 1 hr fire rated walls. As an option, for through penetrant types 2A, 2B and 2C only in nom diameters not exceeding 4 in. (102 mm), the penetrant can be installed with continuous point contact. The following types and sizes of metallic pipes, conduit or tube may be used:
 - Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
 - Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
 - Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or 6 in. diam steel conduit.
 - Copper Tube — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
 - Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
- Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) or 1-1/4 in. (32 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall, for 1 hr and 2 hr fire rated wall assemblies, respectively. A min 1/2 in. (13 mm) diam bead of fill material shall be applied at the spewel interface at the point contact and continuous point contact location.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — CP606 Flexible Firestop Sealant
*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. June 29, 2017

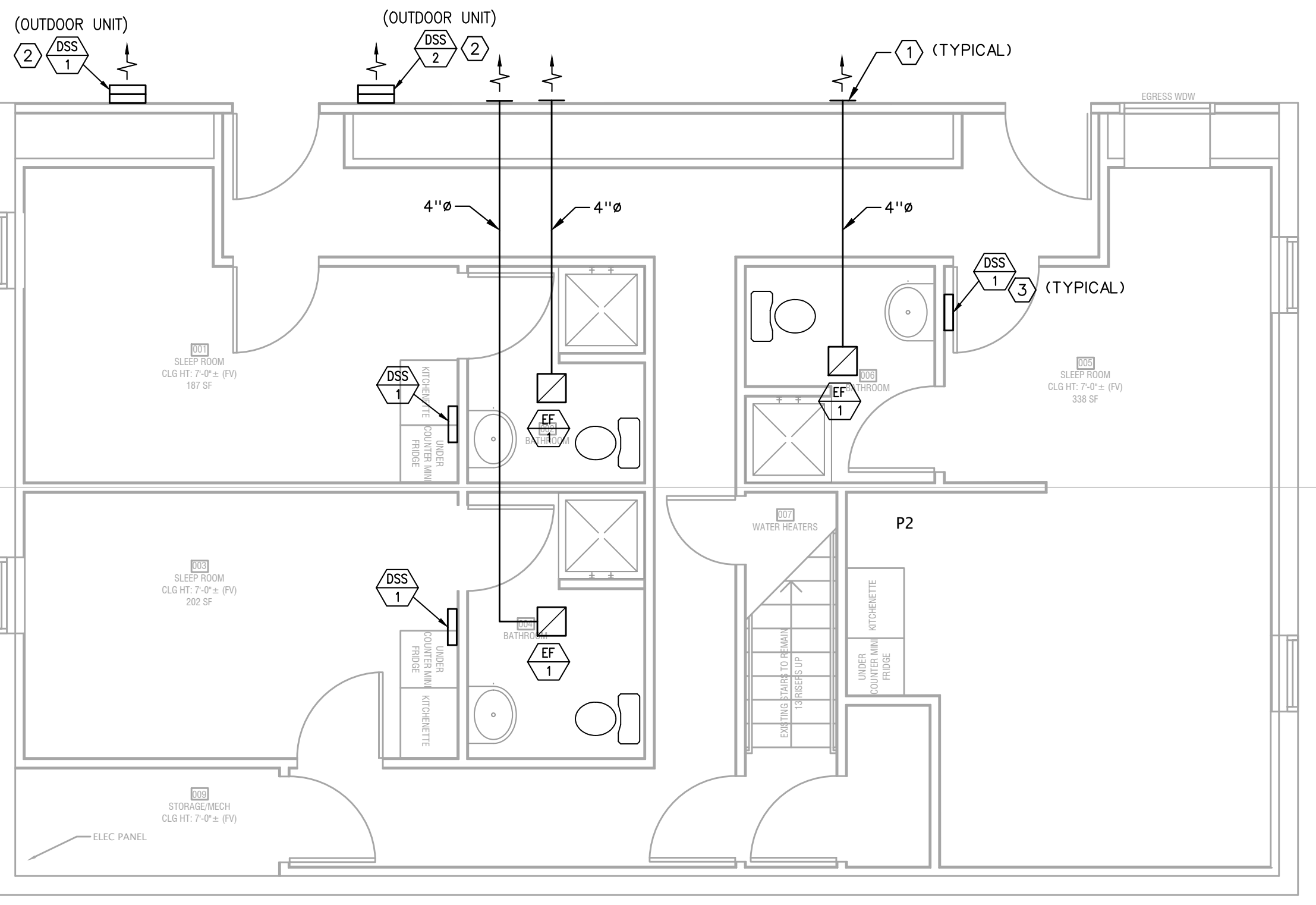
REVIEWED FOR CODE COMPLIANCE
City Planning & Development
Development Services
City of Kansas City, Missouri

JIM LEE, P.E., M.C.P.
Building Official

Date: 07/04/2024 By: jlee@kcmo.org

Case Number CRBC-2023-40303

C:\GEO\PROJECTS\PROJECTS 23\AEC_23097F_63RD ST HALFWAY HOUSE_23024G_MPE400_2023-09-26_GPH_24X36.DWG : 11/1/2023 12:48:29 PM : Mofidre



BASEMENT MECHANICAL PLAN NOTES

1. WEATHERPROOF WALL EXHAUST OUTLET.
2. MOUNT OUTDOOR UNIT ON EXTERIOR WALL.
3. MOUNT INDOOR UNIT ON WALL. EXTEND PUMPED CONDENSATE DRAIN TO COMMON CONDENSATE DRAIN AND DISCHARGE TO EXTERIOR SPLASHBLOCK.

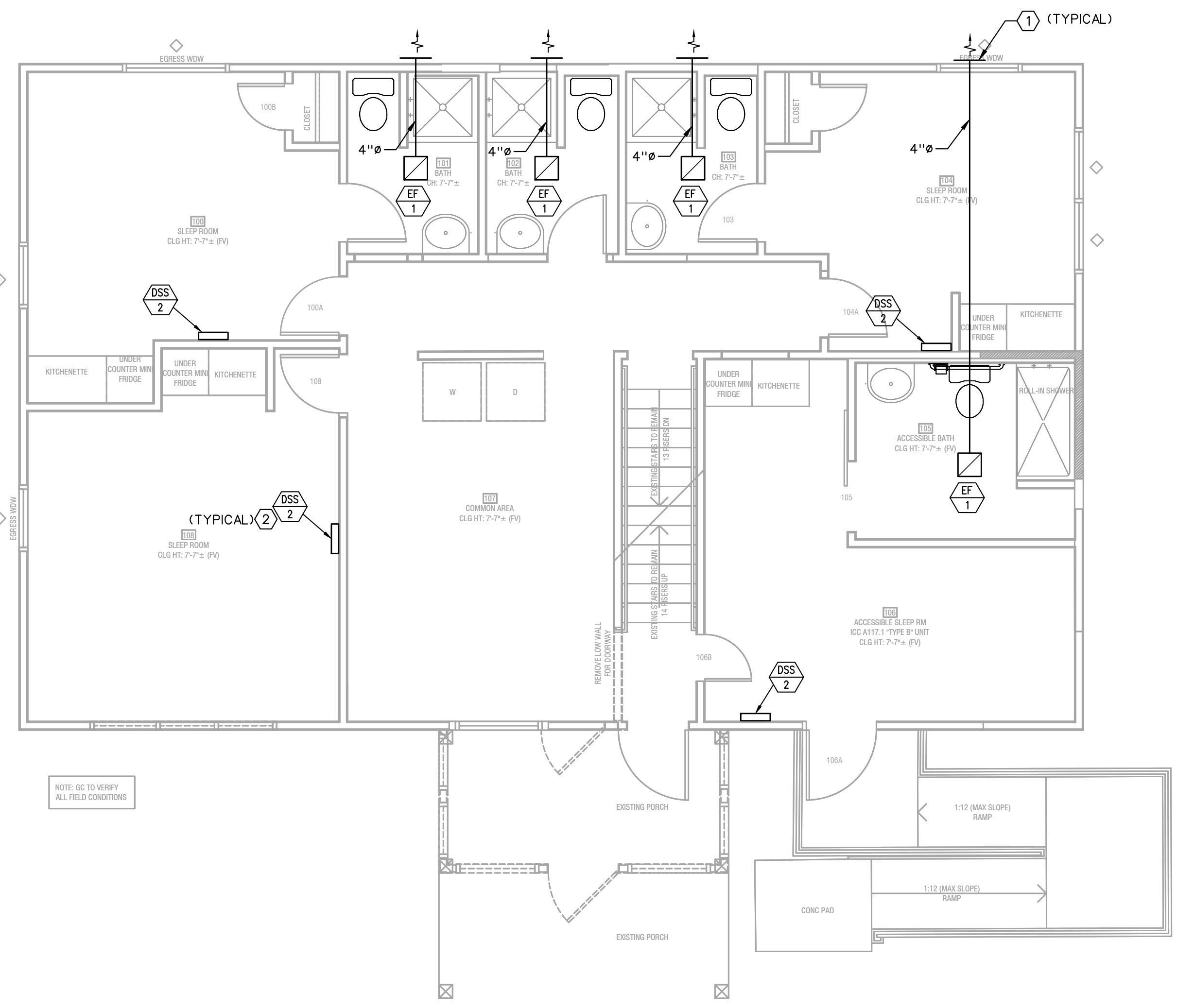
REVIEWED FOR CODE COMPLIANCE
 City Planning & Development
 Development Services
 City of Kansas City, Missouri
 JAF, P.E., M.C.P.
 Building Official
 Date: 07/04/2024 By: jasonp
 Case Number CRBC-2023-40303



HALFWAY HOUSE
 8705 E 63rd ST
 KCMO

BASEMENT LEVEL MECHANICAL FLOOR PLAN

1/4" = 1'-0"



FIRST FLOOR MECHANICAL PLAN NOTES

1. WEATHERPROOF WALL EXHAUST OUTLET.
2. MOUNT INDOOR UNIT ON WALL. EXTEND PUMPED CONDENSATE DRAIN TO COMMON CONDENSATE DRAIN AND DISCHARGE TO EXTERIOR SPLASHBLOCK.

M200

1ST LEVEL MECHANICAL FLOOR PLAN

1/4" = 1'-0"



C:\GEG\PROJECTS\PROJECTS\23\AEC_23097F_63RD ST HALFWAY HOUSE\M200_2023-10-29_24X36_MKS.DWG : 7/11/2024 10:50:50 PM : GFGladfelter



JOB NO.:	23097F
DATE:	10/30/2023
REVISIONS:	
	10/30/2023 PERMIT
	12/27/2023 ADDENDUM #1
	07/10/2024 ADDENDUM #3
DESIGNED BY:	GEG
DRAWN BY:	GEG
CHECKED BY:	GEG
SHEET NO.	

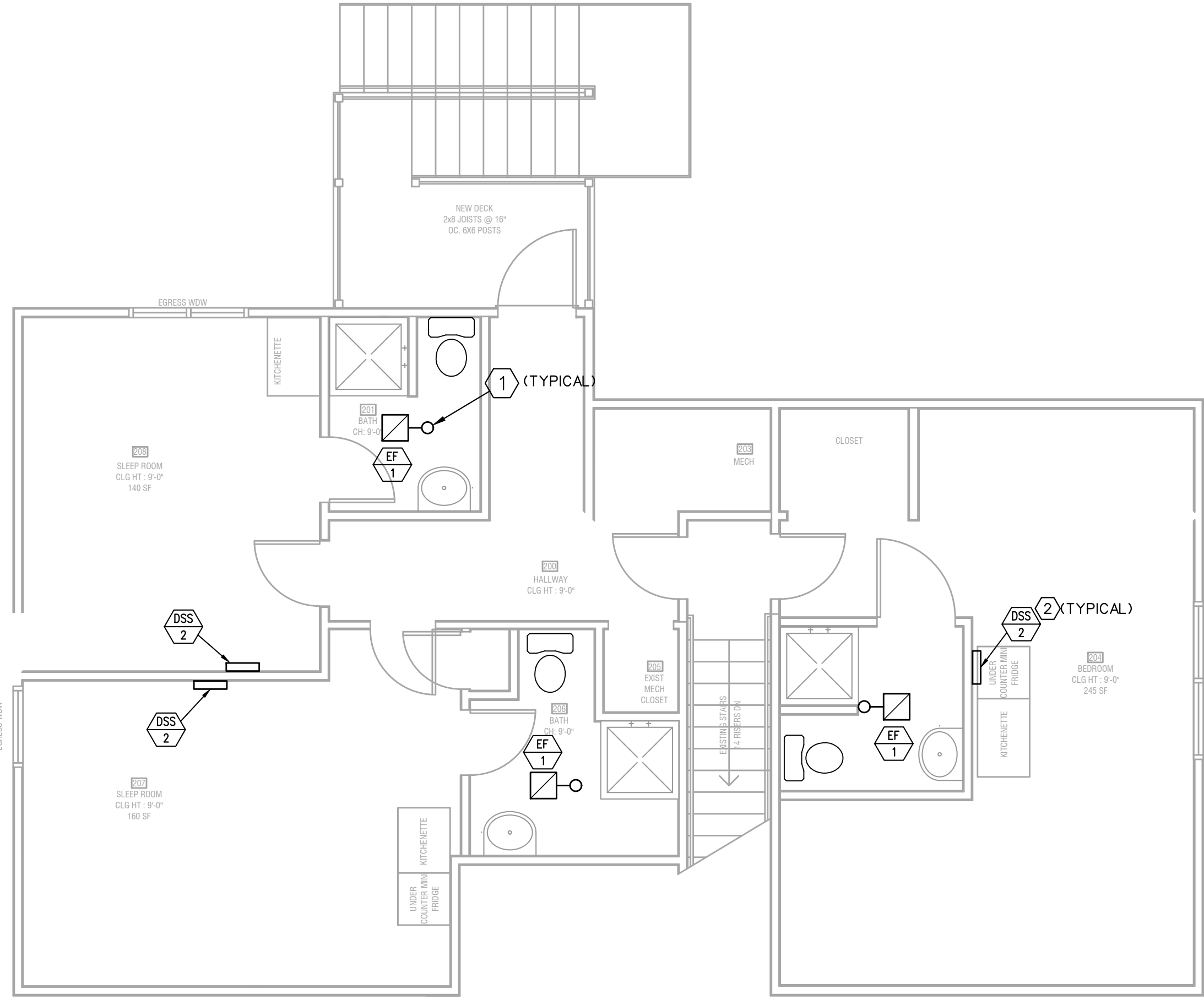
M200

SECOND LEVEL MECHANICAL PLAN NOTES

- 4"Ø EXHAUST DUCT UP THROUGH ROOF TO WEATHERPROOF ROOF CAP.
- MOUNT INDOOR UNIT ON WALL. EXTEND PUMPED CONDENSATE DRAIN TO COMMON CONDENSATE DRAIN AND DISCHARGE TO EXTERIOR SPLASHBLOCK.

MECHANICAL SPECIFICATION

- INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL MECHANICAL AND FUEL GAS CODES, NFPA 90A AND 101 AND ALL STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
- COORDINATE EXACT LOCATIONS AND ORIENTATION OF EQUIPMENT WITH ARCHITECTURAL AND STRUCTURAL REQUIREMENTS. EQUIPMENT SHALL BE SCREENED IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS AND AS SHOWN ON ARCHITECTURAL DRAWINGS.
- DUCTWORK FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS.
- ALL DUCTWORK SHALL BE SHEET METAL, CONSTRUCTED TO SMACNA STANDARDS, MINIMUM OF 2" WG PRESSURE CLASS AND SEAL CLASS 'C' MINIMUM. ALL LONGITUDINAL AND TRANSVERSE JOINTS TO BE SEALED, EXCEPT AS OTHERWISE NOTED. ROUND AND FLEX DUCT CONNECTIONS SHALL BE MADE WITH SPIN COLLARS WITH EXTRACTORS AND VOLUME DAMPERS.
- ROUND OR OVAL EXPOSED DUCT SHALL BE SPIRAL DUCT, PAINT GRADE WHERE SCHEDULED BY ARCHITECT TO BE PAINTED.
- TRAP ALL CHILLED CONDENSATE DRAINS AS DETAILED OR AS REQUIRED. PROVIDE A TRAP DEPTH 1" GREATER THAN SYSTEM FAN DEVELOPED STATIC PRESSURE. INSURE AND CERTIFY THAT CONDENSATE DRAINS ARE POSITIVELY SLOPED AT 1"/20' MINIMUM IN DIRECTION OF FLOW.
- CAULK AND SEAL ALL DUCT AND PIPING PENETRATIONS OF EXTERIOR OR DEMISING WALLS.
- THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN THE INTEGRITY OF ALL FIRE RATED AND SOUND RATED ASSEMBLIES.
- REFRIGERANT PIPING SHALL BE TYPE 'ACR' COPPER WITH BRAZED JOINTS OR MANUFACTURER'S STANDARD PRE-CHARGED LINE SETS WITH COMPRESSION JOINTS.
- ALL REFRIGERANT PIPING SHALL BE SIZED AND WITH ALL ACCESSORIES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
- REFRIGERANT SUCTION LINES TO BE INSULATED WITH 1" UNICELLULAR INSULATION, ALL JOINTS SEALED. INSULATION SHALL BE 25/50 SMOKE AND FIRE RATED. PAINT ALL EXTERIOR INSULATION WITH UV RESISTANT PAINT.
- TEST AND CLEAN PIPING SYSTEMS PER INDUSTRY STANDARDS. PRESSURE TEST OF PRESSURE PIPING SHALL BE AT 1-1/2 TIMES THE ANTICIPATED OPERATING PRESSURE, BUT NOT LESS THAN 50 PSIG FOR 2 HOURS. NON-PRESSURIZED SYSTEMS SHALL BE TESTED WITH 10' WATER COLUMN ABOVE NORMAL OPERATING CONDITIONS OR 5 PSI FOR 2 HOURS. THERE SHALL BE NO MEASURABLE DROP DURING THE TEST PERIOD.
- TEST AND BALANCE ALL SYSTEMS.



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

REVIEWED FOR CODE COMPLIANCE
City Planning & Development
Development Services
City of Kansas City, Missouri
JLF
JLF Lee, P.E., M.C.P.
Building Official
Date: 07/02/2024 By: jlf

Case Number CRBC-2023-40303

FAN SCHEDULE

MARK NO.	MANUFACTURER	MODEL NO.	CFM	ESP IN W.G.	TYPE	FAN SIZE	RPM	DRIVE	ACCESSORIES	ELECTRICAL				REMARKS
										VOLT	Ø	HZ	HP/W	
1	COOK	GC-144	70	0.25	CEILING	-	1100	D	-	120	1	60	98W	1

- NOTES:
1. PROVIDE CEILING FANS WITH CEILING GRILLE, DISCONNECT SWITCH, HANGER HARDWARE, BACKDRAFT DAMPER, UNIT MOUNTED VARIABLE SPEED SWITCH, WALL OR ROOF CAP, FLEX CONNECTOR, SWITCH WITH LIGHTS.



HALFWAY HOUSE
8705 E 63rd ST
KCMO



JOB NO.: 23097F
DATE: 10/30/2023
REVISIONS:
10/30/2023 PERMIT
12/27/2023 ADDENDUM #1
07/10/2024 ADDENDUM #3
DESIGNED BY: GEG
DRAWN BY: GEG
CHECKED BY: GEG
SHEET NO.

M201

C:\GEG PROJECTS\PROJECTS 23\AEC_23097F_63RD ST HALFWAY HOUSE\23097F_M201_2023-10-29_24X36_GPG.DWG : 10/29/2023 9:13:42 PM : ggladfelter



HALFWAY HOUSE
 8705 E 63rd ST
 KCMO



JOB NO.:	23097F
DATE:	10/30/2023
REVISIONS:	
	10/30/2023 PERMIT
	12/27/2023 ADDENDUM #1
	07/10/2024 ADDENDUM #3
DESIGNED BY:	GEG
DRAWN BY:	GEG
CHECKED BY:	GEG
SHEET NO.	

P200

PLUMBING FIXTURE SCHEDULE

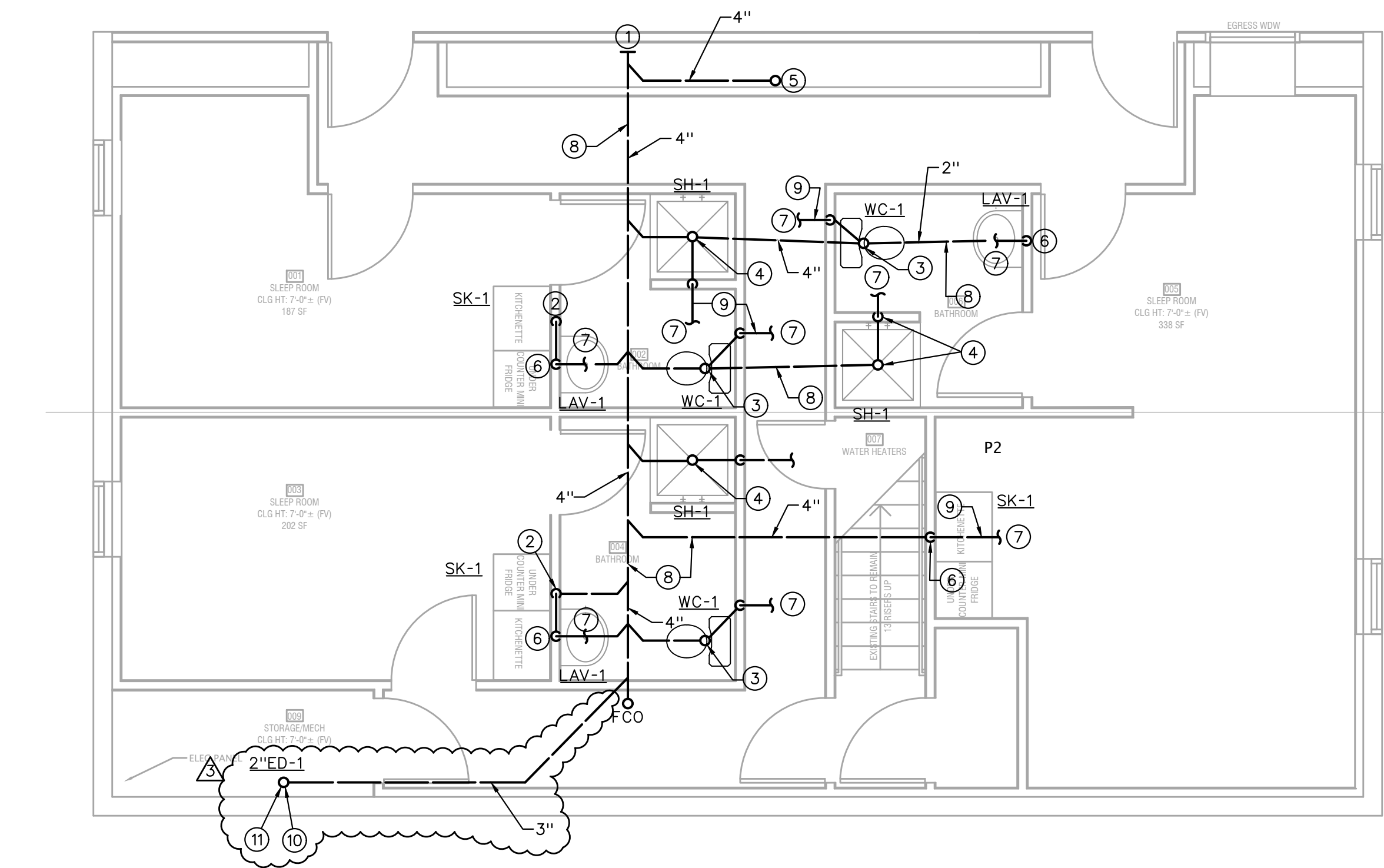
- A. INSTALL PLUMBING FIXTURES AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S DRAWINGS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE WATER-CONSERVING FIXTURES AND APPURTENANCES IF/AS REQUIRED BY LOCAL AUTHORITIES. CONFIRM ALL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS. CAULK FIXTURES TO WALLS/FLOORS. SET COUNTER MOUNTED SINKS AND LAVATORIES IN A BED OF CAULK. THE SPECIFIED PLUMBING FIXTURES, OR APPROVED EQUALS, SHALL BE USED UNLESS OTHERWISE NOTED OR INDICATED.
- B. WATER CLOSET (WC-1H), FLOOR-MOUNTED, CONSTRUCTED OF VITREOUS CHINA, MEETING ANSI A-117.1 AND ADA BARRIER-FREE REQUIREMENTS, 17" HIGH, 1.6-GALLON FLUSH, CLOSE-COUPLED TANK DESIGN WITH ELONGATED BOWL AND SIPHON JET ACTION. TANK SHALL BE VITREOUS CHINA WITH COVER, 3/8" FLEXIBLE RISER WITH LOOSE KEY ANGLE STOP VALVE, CHROME-PLATED BRASS TRIP LEVER AND MANUFACTURER'S BOLT CAPS. PROVIDE WHITE ELONGATED OPEN FRONT SEAT LESS COVER.
- C. LAVATORY (LAV-1H), WALL-HUNG TYPE (20"X18"), CONSTRUCTED OF VITREOUS CHINA, MEETING ANSI A-117.1 AND ADA BARRIER-FREE REQUIREMENTS. LAVATORY SHALL BE DRILLED FOR CONCEALED ARM CARRIER. PROVIDE 3/8-INCH FLEXIBLE RISER W/ANGLE SUPPLIES WITH LOOSE KEY STOPS, 1-1/4-INCH INLET 1-1/2-INCH OUTLET CHROME PLATED CAST BRASS "P" TRAP W/CLEANOUT PLUG AND ESCUTCHEON W/SET SCREW. PROVIDE HEAVY DUTY, VANDAL-RESISTANT, SINGLE LEVER FAUCET, 4-INCH CENTERS, VANDAL-RESISTANT 2.2 GPM AERATOR, PERFORATED OFFSET GRID DRAIN (W/ 1-1/4" TAILPIECE). PROVIDE WITH CARRIER (TO MATCH WALL TYPE). MOUNT AT ADA HEIGHT AND MAINTAIN CLEARANCES UNDER LAVATORY AS REQUIRED BY ADA REGULATIONS. INSULATE WASTE AND HOT WATER SUPPLY UNDER LAVATORY WITH UNDERSINK PROTECTIVE PIPE COVER, MOLDED, ANTIMICROBIAL, WITH FLUSH REUSABLE FASTENERS.
- D. FINISHED FLOOR CLEANOUTS: (FFCO) WADE #6000-1-2-S CAST IRON FLOOR CLEANOUT WITH FLANGE, PLASTIC TAPERED PLUG AND SQUARE NICKEL BRONZE ADJUSTABLE TOP. PROVIDE WITH CARPET CLEANOUT MARKER WHEN CLEANOUT IS LOCATED BELOW CARPET. COORDINATE WITH ARCHITECTURAL PLANS.
- E. FINISHED WALL CLEANOUTS: (FWCO) WADE #8650, W/ 8304-85-6 CAST IRON CLEANOUT TEE WITH BRASS PLUG AND 6" ROUND STAINLESS STEEL ACCESS COVER. J.R. SMITH FIGURE 4530. PROVIDE DUCO CAST IRON WALL CLEANOUT TEE WITH COUNTERSUNK PLUG. DELETE COVER PLATE IF CLEANOUT IS IN EXPOSED LOCATION.
- F. ALL COMMON AREA FIXTURES USED SPECIFICALLY FOR HANDWASHING PURPOSES (LAVATORIES, HAND SINKS, ETC.) SHALL BE PROVIDED WITH A TEMPERING VALVE TO TEMPER THE HOT WATER TO THE FIXTURE (MAXIMUM OF 105-DEGREES F).

BASEMENT PLUMBING PLAN NOTES:

1. CONNECT NEW 4" S TO EXISTING.
2. 2" W DOWN, 1-1/2" OVER TO V FROM LAV-1.
3. 4" S DOWN 2" V OVER TO WALL AND UP TO ABOVE CEILING.
4. 2" W DOWN, 2" V OVER TO WALL AND UP TO ABOVE CEILING.
5. 4" S UP.
6. 2" W DOWN, 1-1/2" V UP TO ABOVE CEILING.
7. CONTINUED ON PLUMBING RISER DIAGRAM.
8. PIPING BELOW FLOOR.
9. PIPING ABOVE CEILING.
10. DIRECT DRAIN FROM RPZ ABOVE EQUIPMENT DRAIN.
11. COORDINATE LOCATION WITH FIRE SUPPRESSION RISER.

REVIEWED FOR CODE COMPLIANCE
 City Planning & Development
 Development Services
 City of Kansas City, Missouri
 Jeff Lee, P.E., M.C.P.
 Building Official
 Date: 07/24/2024 By: jlee

Case Number CRBC-2023-40303



BASEMENT LEVEL PLUMBING FLOOR PLAN

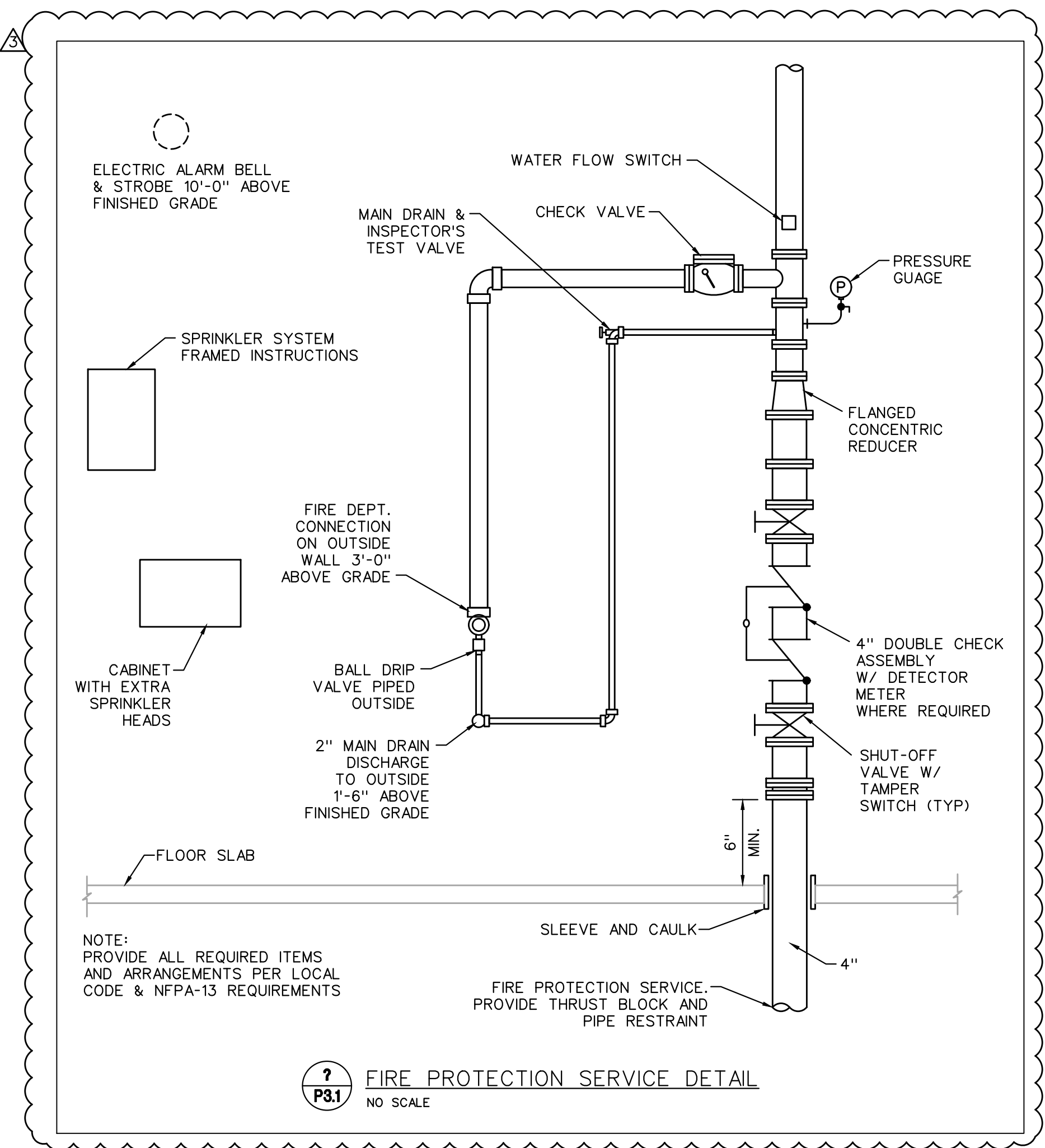
1/4" = 1'-0" NORTH

FIRST FLOOR PLUMBING PLAN NOTES:

1. 4" S FROM ABOVE CONTINUING DOWN.
2. 4" S DOWN, 2" V OVER TO WALL AND UP TO ABOVE CEILING.
3. 2" W DOWN, 1-1/2" V OVER TO 2" V FROM WC-1.
4. 4" S DOWN, 2" V OVER TO 2" V FROM WC-1.
5. 2" W DOWN, 1-1/2" V OVER TO WALL AND UP.
6. 1-1/2" W DOWN, 1-1/2" V UP TO ABOVE CEILING.
7. 2" W DOWN, 1-1/2" V UP TO ABOVE CEILING.
8. CONTINUED ON PLUMBING RISER DIAGRAM.
9. PIPING BELOW FLOOR.
10. PIPING ABOVE CEILING.

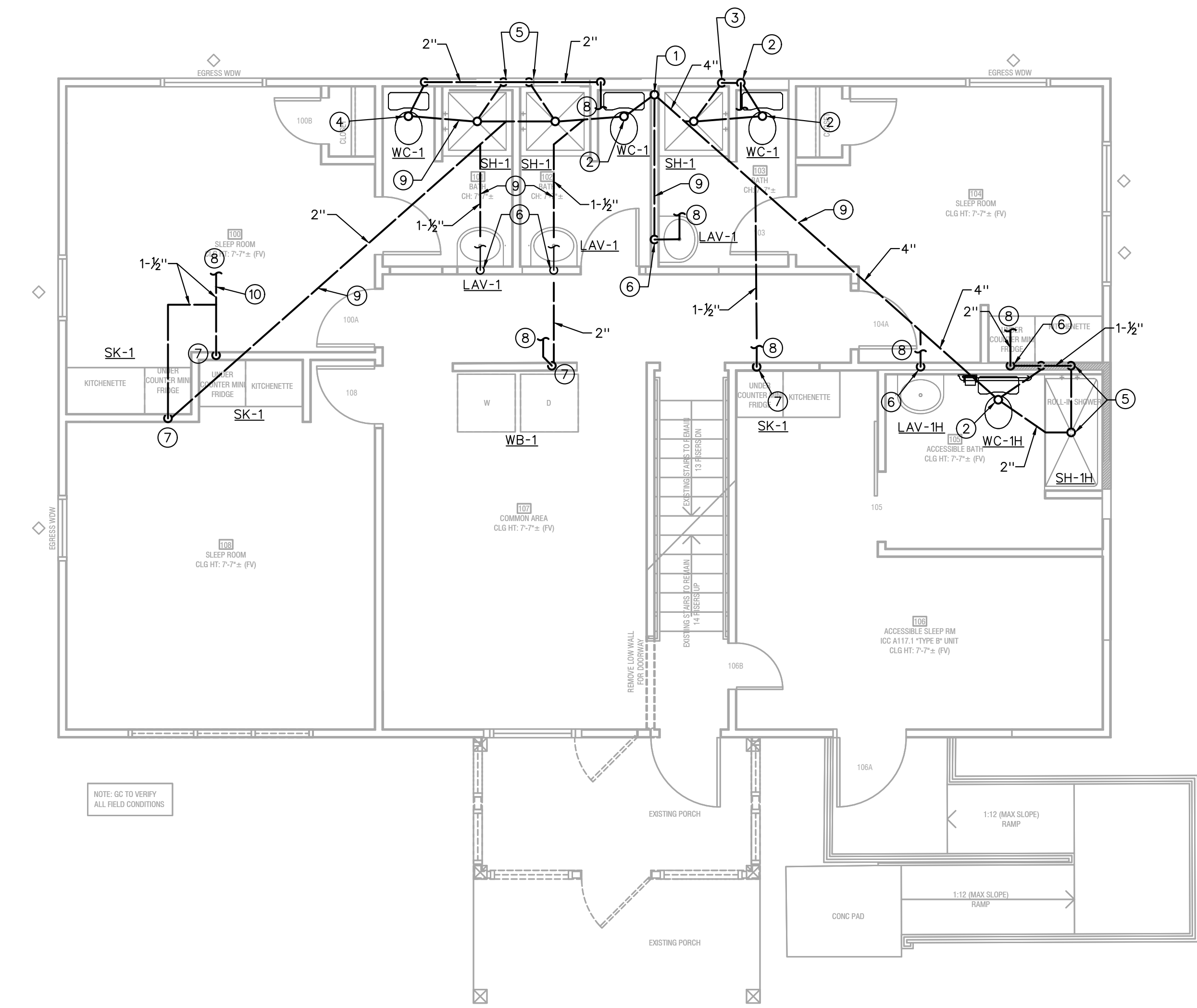
PLUMBING GENERAL NOTES

- A) COMMON AREA FIXTURES USED SPECIFICALLY FOR HANDWASHING PURPOSES (LAVATORIES, HAND SINKS, ETC.) SHALL BE PROVIDED WITH A TEMPERING VALVE TO TEMPER THE HOT WATER TO THE FIXTURE (MAXIMUM OF 105-DEGREES F).
- B) CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. FIELD VERIFY LOCATION OF EXISTING UTILITIES.
- C) SEE "PLUMBING RISER DIAGRAMS", SHEET MP300, FOR PIPING NOT SHOWN ON THE PLANS.



NOTE: PROVIDE ALL REQUIRED ITEMS AND ARRANGEMENTS PER LOCAL CODE & NFPA-13 REQUIREMENTS

1 P31 FIRE PROTECTION SERVICE DETAIL
 NO SCALE



1ST LEVEL PLUMBING FLOOR PLAN

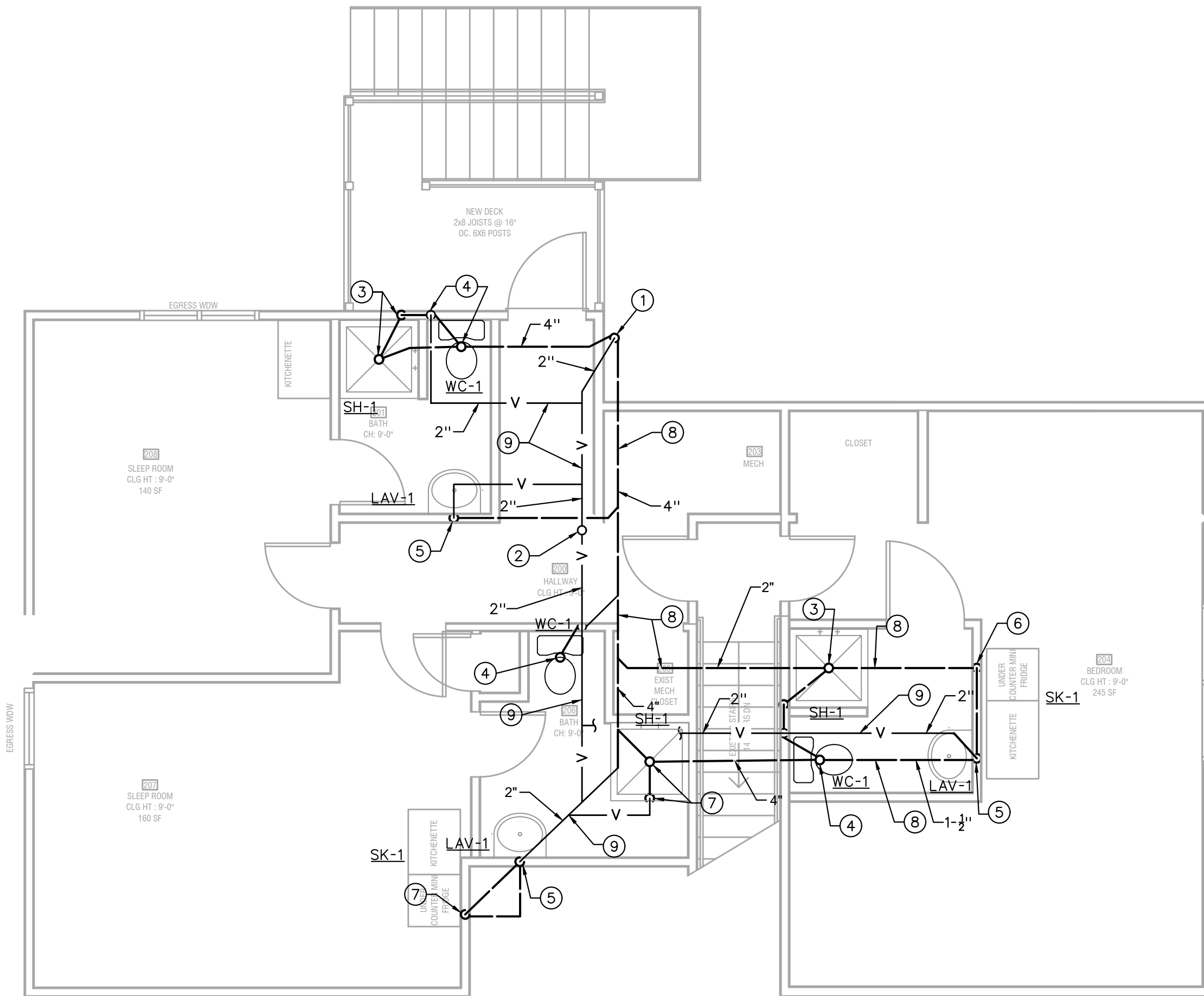
1/4" = 1'-0" NORTH

Q:\GEG PROJECTS\PROJECTS 23\AEC_23097F_63RD ST HALFWAY HOUSE_P200_2024-07-03_24X36_AEE.DWG : 7/11/2024 10:47:27 PM : GFGladfelter

C:\GEG\PROJECTS\PROJECTS_23\AEC_23097F_P201_2023-10-29_24X36_0PG.DWG : 10/29/2023 9:15:05 PM : ggladfelter

SECOND FLOOR PLUMBING PLAN NOTES:

1. 4" S DOWN, 2" V UP TO ABOVE CEILING.
2. 3" VTR.
3. 2" W DOWN, 1-1/2" V OVER TO 2" V FROM WC-1.
4. 4" S DOWN, 2" V OVER TO WALL AND UP.
5. 1-1/2" W DOWN, 1-1/2" V UP TO ABOVE CEILING.
6. 2" W DOWN, 1-1/2" V UP AND OVER TO 1-1/2" V FROM LAV-1.
7. 2" W DOWN, 1-1/2" V OVER TO WALL AND UP TO ABOVE CEILING.
8. PIPING BELOW FLOOR.
9. PIPING ABOVE CEILING.



2ND LEVEL PLUMBING FLOOR PLAN

1/4" = 1'-0"



REVIEWED FOR CODE COMPLIANCE
 City Planning & Development
 Developer Services
 City of Kansas City, Missouri

[Signature]
 Jeff Lee, P.E., M.C.P.
 Building Official
 Date: 07/04/2024 By: jpranson

Case Number CRBC-2023-40303

PLUMBING SPECIFICATION

1. INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2018 UNIFORM PLUMBING CODE, NFPA 90A AND 101 AND ALL STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
2. ALL WATER BEARING PIPING SHALL BE SLOPED FOR DRAINAGE WITH BALL DRAN VALVES AT LOW POINTS.
3. DRAINAGE PIPING SHALL BE SLOPED IN ACCORDANCE WITH CODE, BUT NOT LESS THAN 1/8" PER FOOT FOR 3" AND LARGER PIPING AND 1/4" PER FOOT FOR 2-1/2" AND SMALLER PIPING. ALL INVERT ELEVATIONS SHALL BE COORDINATED WITH THE STRUCTURAL FOOTINGS.
4. PROVIDE DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS.
5. CAULK AND SEAL ALL DUCT AND PIPING PENETRATIONS OF EXTERIOR OR DEMISING WALLS.
6. THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN THE INTEGRITY OF ALL FIRE RATED AND SOUND RATED ASSEMBLIES.
7. ABOVE GROUND WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT CEMENT JOINTS, EXCEPT USE STANDARD WEIGHT NO-HUB CAST IRON IN AIR PLENUMS. VENT PIPING MAY BE SCHEDULE 40 GALVANIZED STEEL WITH SCREWED JOINTS. PAINT ALL EXTERIOR PIPING WITH UV RESISTANT PAINT.
8. ABOVE GROUND WATER PIPING SHALL BE COPPER OR CROSS LINKED POLYETHYLENE (PEX).
9. SERVICE VALVES FOR WATER PIPING SYSTEMS UP THRU 2" SHALL BE 1/4 TURN, 150 LB. BALL VALVE WITH BRONZE CHROME PLATED BALL AND TFE SEATS, NIBCO S-585-70.
10. COPPER DOMESTIC WATER PIPING SHALL BE INSULATED WITH 1" FIBERGLASS WITH ALL SERVICE JACKET OR COMPARABLE UNICELLULAR INSULATION WITH SMOKE/FLAME RATING OF 25/50. WHEN INSTALLED WITHIN A CHASE ALONG AN EXTERIOR WALL, THE INSULATION SHALL BE 1-1/2" FIBERGLASS AND THE PIPING SHALL BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING WALL INSULATION.
11. SERVICE VALVES FOR WATER PIPING SYSTEMS UP THRU 2" SHALL BE 1/4 TURN, 150 LB. BALL VALVE WITH BRONZE CHROME PLATED BALL AND TFE SEATS, NIBCO S-585-70.
12. DOMESTIC WATER PIPING SHALL BE INSULATED WITH 1" FIBERGLASS WITH ALL SERVICE JACKET OR COMPARABLE UNICELLULAR INSULATION WITH SMOKE/FLAME RATING OF 25/50. WHEN INSTALLED WITHIN A CHASE ALONG AN EXTERIOR WALL, THE INSULATION SHALL BE 1-1/2" FIBERGLASS AND THE PIPING SHALL BE LOCATED ON THE INTERIOR SIDE OF THE BUILDING WALL INSULATION.
13. PROVIDE PLUMBING FIXTURES AS SCHEDULED OR SELECTED BY OWNER WITH ALL REQUIRED TRIM AND ACCESSORIES FOR A COMPLETE WORKING AND CODE COMPLIANT INSTALLATION. PROVIDE STOP VALVES AND WATER HAMMER ARRESTORS, SIZED AS INDICATED OR PER MANUFACTURER FOR EACH FIXTURE OR EACH GROUP OF FIXTURES. REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATION OF THE FIXTURES.
14. MEET ALL REQUIREMENTS OF THE ADA FOR ALL FIXTURES REQUIRED TO BE HANDICAP ACCESSIBLE. INSULATE PIPING BENEATH HANDICAP FIXTURES PER ADA, HANDI-LAV-GARD SYSTEM OR EQUIVALENT.
15. TEST AND CLEAN PIPING SYSTEMS PER INDUSTRY STANDARDS. PRESSURE TEST OF PRESSURE PIPING SHALL BE AT 1-1/2 TIMES THE ANTICIPATED OPERATING PRESSURE, BUT NOT LESS THAN 50 PSIG FOR 2 HOURS. NON-PRESSURIZED SYSTEMS SHALL BE TESTED WITH 10" WATER COLUMN ABOVE NORMAL OPERATING CONDITIONS OR 5 PSI FOR 2 HOURS. THERE SHALL BE NO MEASURABLE DROP DURING THE TEST PERIOD.

PLUMBING GENERAL NOTES

- A) COMMON AREA FIXTURES USED SPECIFICALLY FOR HANDWASHING PURPOSES (LAVATORIES, HAND SINKS, ETC.) SHALL BE PROVIDED WITH A TEMPERING VALVE TO TEMPER THE HOT WATER TO THE FIXTURE (MAXIMUM OF 105-DEGREES F).
- B) CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. FIELD VERIFY LOCATION OF EXISTING UTILITIES.
- C) SEE "PLUMBING RISER DIAGRAMS", SHEET MP300, FOR PIPING NOT SHOWN ON THE PLANS.

HALFWAY HOUSE
 8705 E 63rd ST
 KCMO



JOB NO.:	23097F
DATE:	10/30/2023
REVISIONS:	
	10/30/2023 PERMIT
	12/27/2023 ADDENDUM #1
	07/10/2024 ADDENDUM #3
DESIGNED BY:	GEG
DRAWN BY:	GEG
CHECKED BY:	GEG
SHEET NO.	

P201



HALFWAY HOUSE
8705 E 63rd ST
KCMO



JOB NO.:	23097F
DATE:	10/30/2023
REVISIONS:	
	10/30/2023 PERMIT
	12/27/2023 ADDENDUM #1
	07/10/2024 ADDENDUM #3
DESIGNED BY:	GEG
DRAWN BY:	GEG
CHECKED BY:	GEG
SHEET NO.	

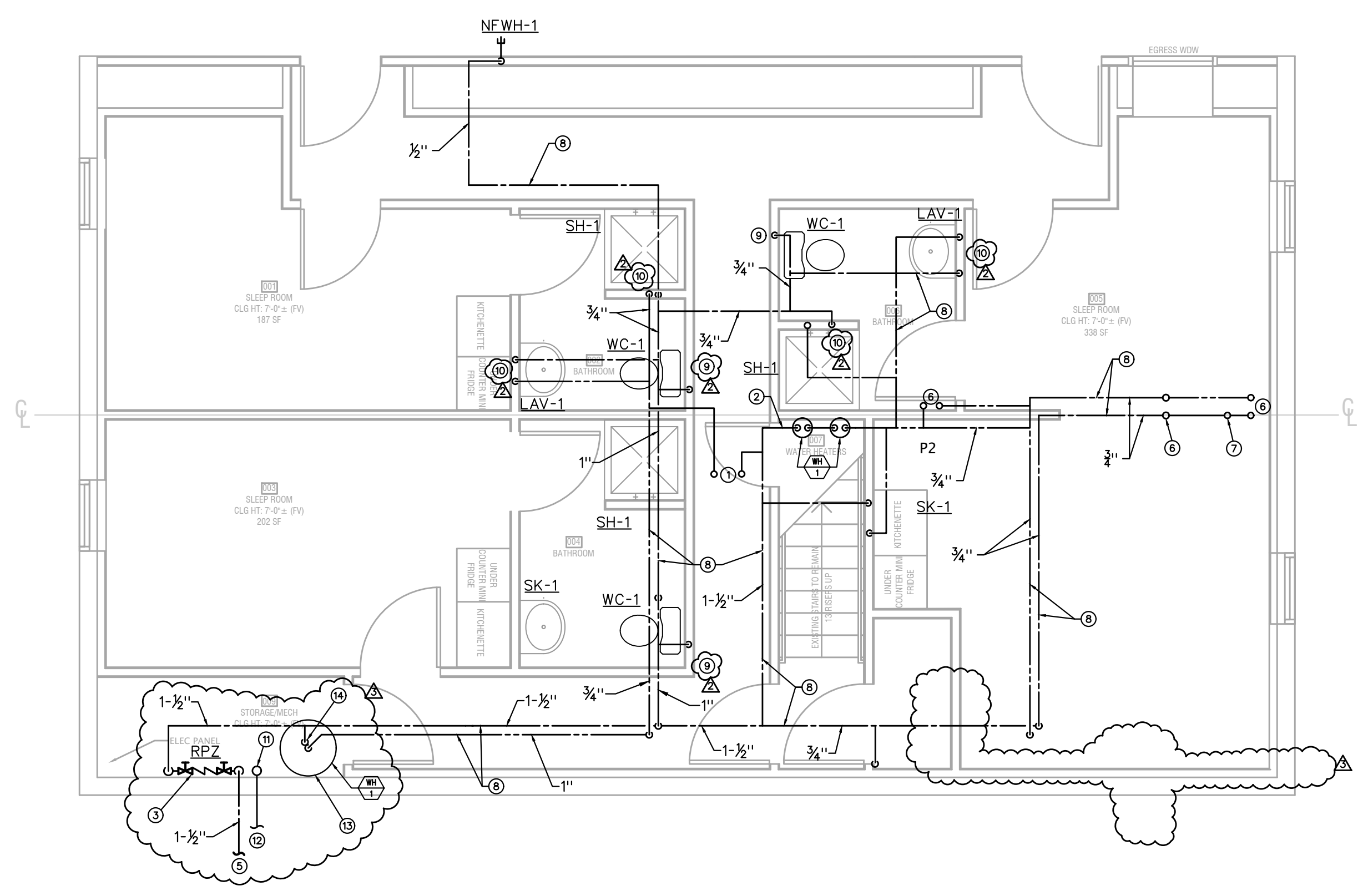
P202

BASEMENT PLUMBING PLAN NOTES

1. 1" CW AND HW PIPING UP THROUGH FLOOR.
2. 3/4" CW DOWN TO WATER HEATER. PIPE WATER HEATERS IN SERIES.
3. DRAIN BACKFLOW PREVENTOR TO EQUIPMENT DRAIN.
4. NOT USED.
5. NEW 1-1/2" DOMESTIC CW SERVICE. SEE CIVIL DRAWINGS FOR CONTINUATION.
6. 1/2" CW AND HW UP THROUGH FLOOR.
7. 1/2" CW UP THROUGH FLOOR.
8. PIPING ABOVE CEILING.
9. 1/2" CW DOWN (TYPICAL WATER CLOSETS).
10. 1/2" CW AND HW DOWN (TYPICAL LAVATORIES, SINKS AND SHOWERS).
11. 4" FIRE SUPPRESSION RISER. SEE DETAIL ON SHEET P200.
12. NEW 4" FIRE SUPPRESSION SERVICE. SEE CIVIL DRAWINGS FOR CONTINUATION.
13. RELOCATE WATER HEATER IF NECESSARY.
14. 1" CW TO AND 1" HW FROM WATER HEATER.

REVIEWED FOR CODE COMPLIANCE
City Planning & Development
Development Services
City of Kansas City, Missouri
[Signature]
Jeff Lee, P.E., M.C.P.
Building Official
Date: 07/24/2024 By: jlee

Case Number CRBC-2023-40303



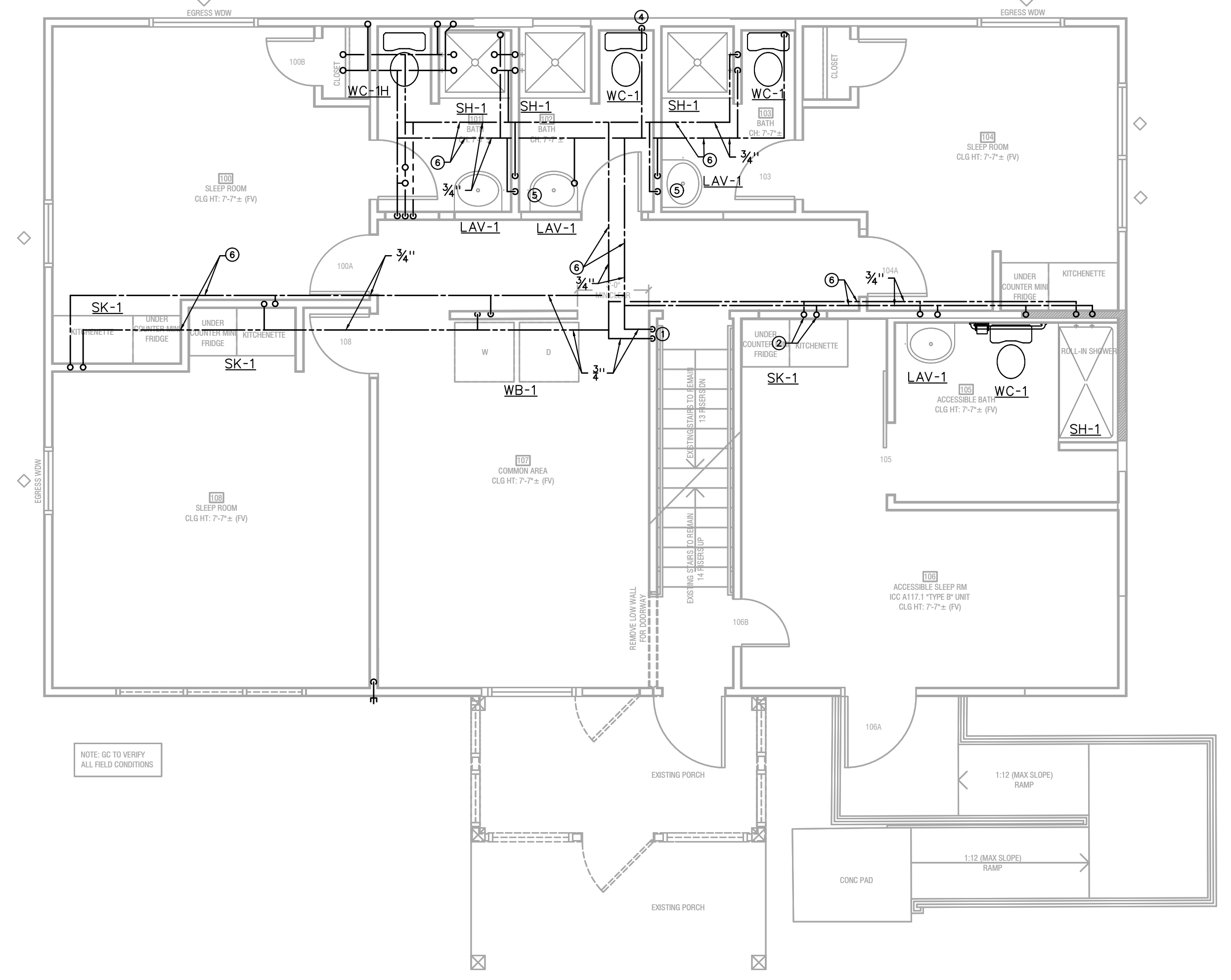
BASEMENT LEVEL PLUMBING DOMESTIC WATER FLOOR PLAN
1/4" = 1'-0"

FIRST FLOOR PLUMBING PLAN NOTES

1. 3/4" CW AND HW FROM BASEMENT CEILING.
2. 1/2" CW AND/OR HW FROM BASEMENT CEILING (TYPICAL SINKS, SHOWERS, LAVATORIES, AND WB-1).
3. 1/2" CW UP FROM BASEMENT CEILING (TYPICAL WATER CLOSETS).
4. 1/2" CW DOWN (TYPICAL WATER CLOSETS).
5. 1/2" CW AND HW DOWN (TYPICAL SINKS, SHOWERS AND LAVATORIES).
6. PIPING ABOVE CEILING.

PLUMBING GENERAL NOTES

- A) COMMON AREA FIXTURES USED SPECIFICALLY FOR HANDWASHING PURPOSES (LAVATORIES, HAND SINKS, ETC.) SHALL BE PROVIDED WITH A TEMPERING VALVE TO TEMPER THE HOT WATER TO THE FIXTURE (MAXIMUM OF 105-DEGREES F).
- B) CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. FIELD VERIFY LOCATION OF EXISTING UTILITIES.
- C) SEE "PLUMBING RISER DIAGRAMS", SHEET MP300, FOR PIPING NOT SHOWN ON THE PLANS.
- D) ALL WATER SERVICE INSTALLATIONS INCLUDING BACKFLOW DEVICES ARE SUBJECT TO FIELD VERIFICATION AND APPROVAL BY THE WATER DEPARTMENT INSPECTOR.



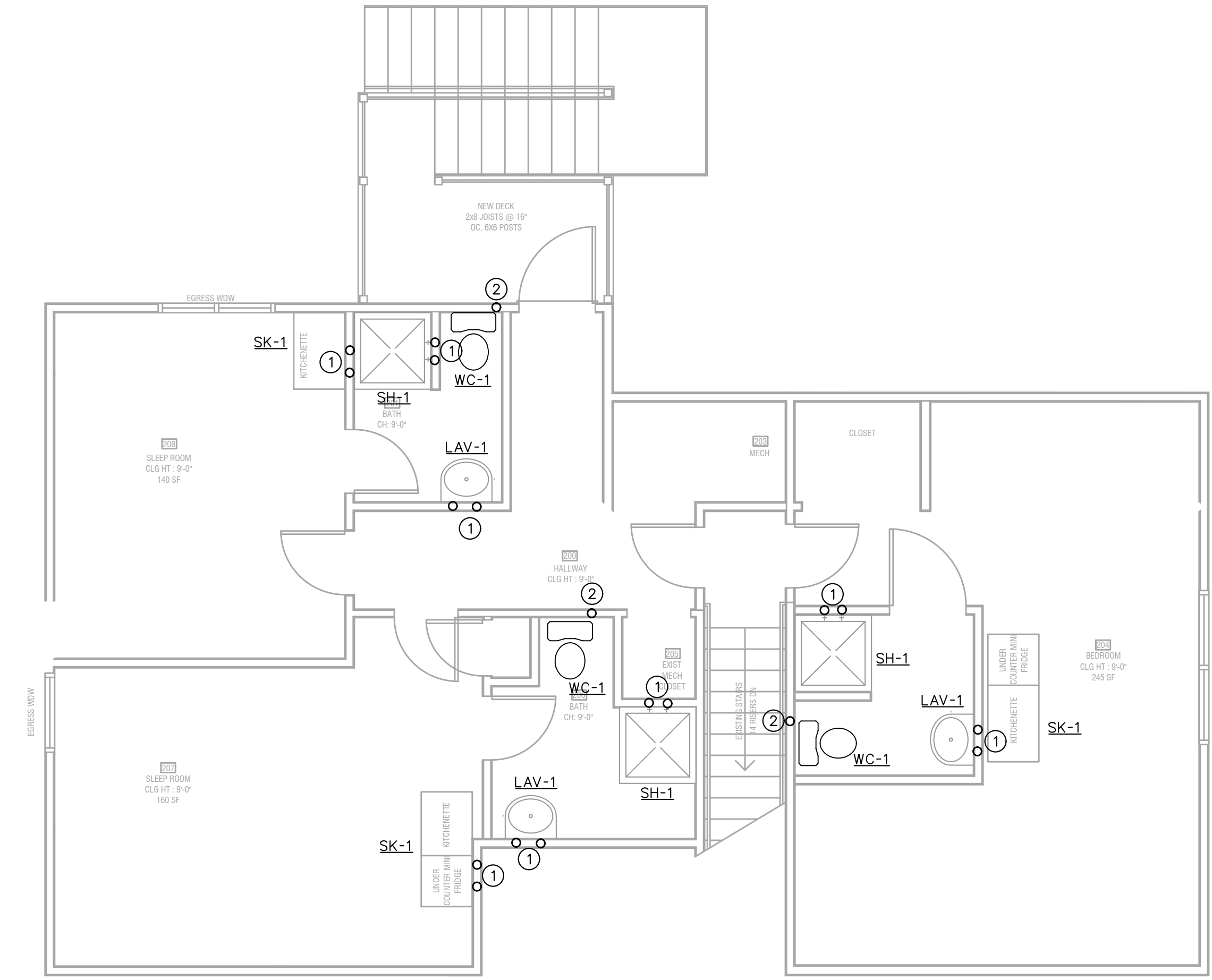
1ST LEVEL PLUMBING DOMESTIC WATER FLOOR PLAN
1/4" = 1'-0"

C:\GEG\PROJECTS\PROJECTS_23\AEC_23097F_63RD_ST_HALFWAY_HOUSE_23097F_P202_2024-07-02_24X36_AEE.DWG : 7/11/2024 10:43:57 PM : GPGladfelter



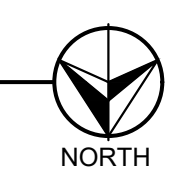
SECOND FLOOR PLUMBING PLAN NOTES

1. 1/2" CW AND HW FROM FIRST FLOOR CEILING.
2. 1/2" CW FROM 1ST FLOOR CEILING.



2ND LEVEL PLUMBING FLOOR PLAN

1/4" = 1'-0"



PLUMBING GENERAL NOTES

- A) COMMON AREA FIXTURES USED SPECIFICALLY FOR HANDWASHING PURPOSES (LAVATORIES, HAND SINKS, ETC.) SHALL BE PROVIDED WITH A TEMPERING VALVE TO TEMPER THE HOT WATER TO THE FIXTURE (MAXIMUM OF 105-DEGREES F).
- B) CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. FIELD VERIFY LOCATION OF EXISTING UTILITIES.
- C) SEE "PLUMBING RISER DIAGRAMS", SHEET MP300, FOR PIPING NOT SHOWN ON THE PLANS.

REVIEWED FOR CODE COMPLIANCE
 City Planning & Development
 Development Services
 City of Kansas City, Missouri
 JWP Lee, P.E., M.C.P.
 Building Official
 Date: 07/24/2024 By: jwp/son

Case Number CRBC-2023-40303

C:\GEG PROJECTS\PROJECTS 23\AEC_23097F_63RD ST HALF WAY HOUSE\23097F_P203_2023-10-29_24X36_GPG.DWG : 10/30/2023 9:41:54 AM : Malorie

HALFWAY HOUSE
 8705 E 63rd ST
 KCMO



JOB NO.:	23097F
DATE:	10/30/2023
REVISIONS:	
	10/30/2023 PERMIT
	12/27/2023 ADDENDUM #1
	07/10/2024 ADDENDUM #3
DESIGNED BY:	GEG
DRAWN BY:	GEG
CHECKED BY:	GEG
SHEET NO.	

P203



HALFWAY HOUSE
 8705 E 63rd ST
 KCMO



JOB NO.:	23097F
DATE:	10/30/2023
REVISIONS:	
	10/30/2023 PERMIT
	12/27/2023 ADDENDUM #1
	07/10/2024 ADDENDUM #3
DESIGNED BY:	GEG
DRAWN BY:	GEG
CHECKED BY:	GEG
SHEET NO.	

E200

BASEMENT LIGHTING/POWER PLAN NOTES

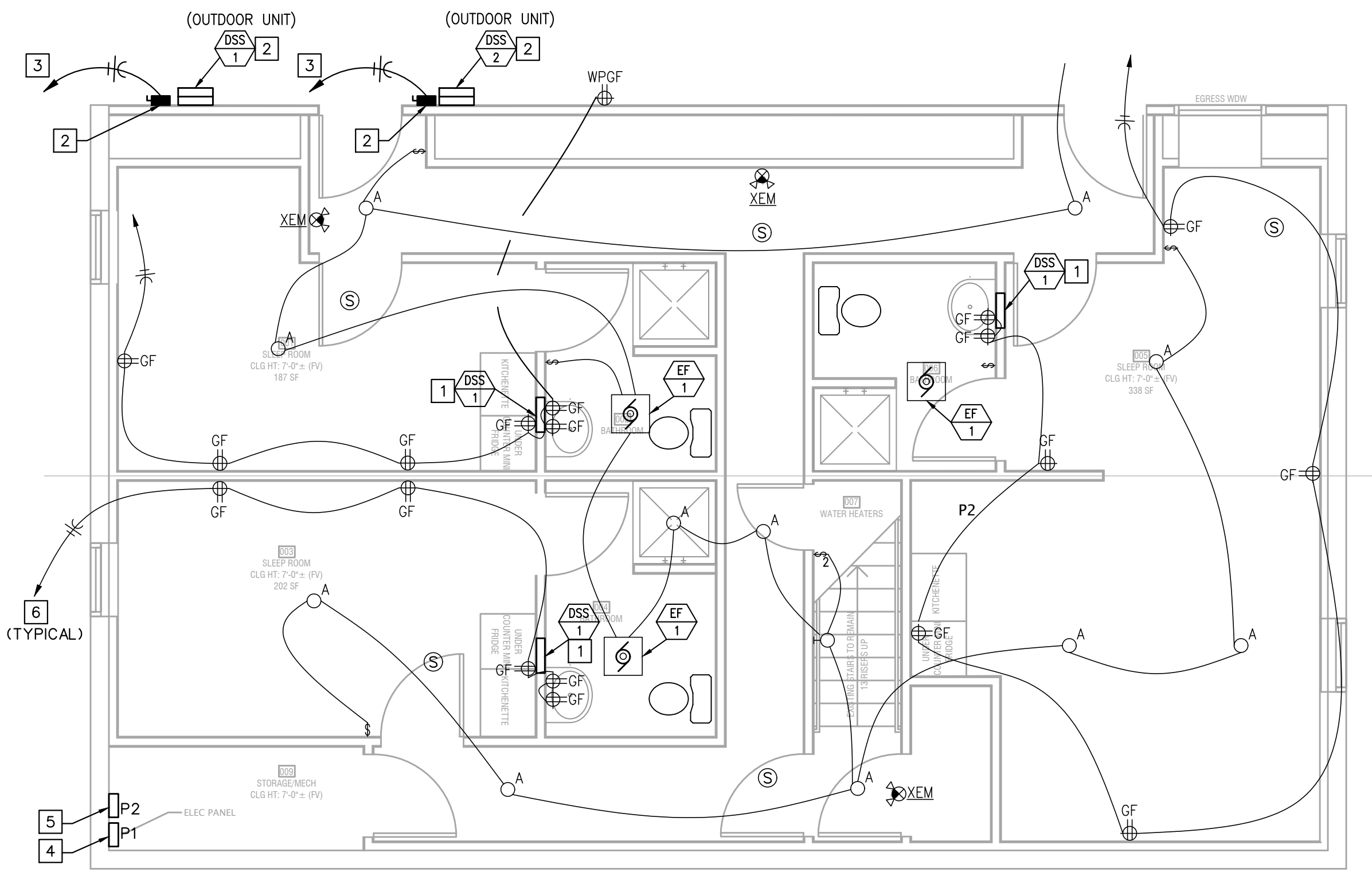
- POWER FROM INDOOR UNIT PROVIDED FROM OUTDOOR UNIT.
- 30-AMP, 2-POLE, NEMA 3R DISCONNECT SWITCH.
- THREE (3) #10 CU, ONE (1) #10 CU G BACK TO 30-AMP CB AT PANEL (CONFIRM SIZE WITH MC).
- NEW 30-SPACE, 240-VOLT, 200-AMP SINGLE PHASE PANEL.
- NEW 24-SPACE, 240-VOLT, 125-AMP SINGLE PHASE PANEL.
- EXTEND BACK TO 20-A CB AT PANEL P1 OR P2.

REVIEWED FOR CODE COMPLIANCE
 City Planning & Development
 Development Services
 City of Kansas City, Missouri
 [Signature]
 JEFFREY P. MCLELLAN, P.E., M.C.P.
 Building Official
 Date: 07/04/2024 By: jpmc

Case Number CRBC-2023-40303

ELECTRICAL SYMBOLS

 	<p>BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOMERUNS TO PANEL. ALL CONDUCTORS ARE #12 EXCEPT AS NOTED.</p> <p>CONDUIT RUN UNDERGROUND OR BENEATH FLOOR SLAB.</p> <p>GROUNDING CONDUCTOR #12 EXCEPT AS NOTED.</p> <p>WALL MOUNTED JUNCTION BOX.</p> <p>CEILING MOUNTED JUNCTION BOX.</p> <p>PANELBOARD (SURFACE MOUNTED). INSTALL W/TOP 6'-0" AFF.</p> <p>DISCONNECT SWITCH. SIZED AS NOTED.</p> <p>DISCONNECT SWITCH FURNISHED WITH EQUIPMENT.</p> <p>SINGLE POLE SWITCH. +3'-10" AFF.</p> <p>DUPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED.</p> <p>DUPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP.</p> <p>DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE. HEIGHT AS NOTED.</p> <p>DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION. +1'-6" AFF OR AS NOTED.</p> <p>FOURPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED.</p> <p>FOURPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP.</p> <p>HEAVY DUTY RECEPTACLE. VOLTAGE, PHASE AND AMPS AS NOTED. +1'-6" AFF OR AS NOTED.</p> <p>COMBINATION VOICE/DATA OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. +1'-6" AFF OR AS NOTED.</p> <p>COMBINATION VOICE/DATA OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. INSTALLED ABOVE COUNTERTOP.</p> <p>+3'-10" HEIGHT TO CENTERLINE OF OUTLET BOX ABOVE FINISHED FLOOR.</p> <p>WH-1 ELECTRIC WATER HEATER AND NUMBER.</p> <p>EF-1 EXHAUST FAN AND NUMBER.</p> <p>CU-1 CONDENSING UNIT AND NUMBER.</p> <p>F-1 FURNACE AND NUMBER.</p> <p>AFF ABOVE FINISH FLOOR.</p> <p>ETR EXISTING TO REMAIN.</p> <p>ER EXISTING RELOCATED.</p> <p>EC ELECTRICAL CONTRACTOR.</p> <p>ECC EQUIPMENT GROUNDING CONDUCTOR.</p> <p>GEC GROUNDING ELECTRODE CONDUCTOR.</p> <p>MBJ MAIN BONDING JUMPER.</p>
--	---



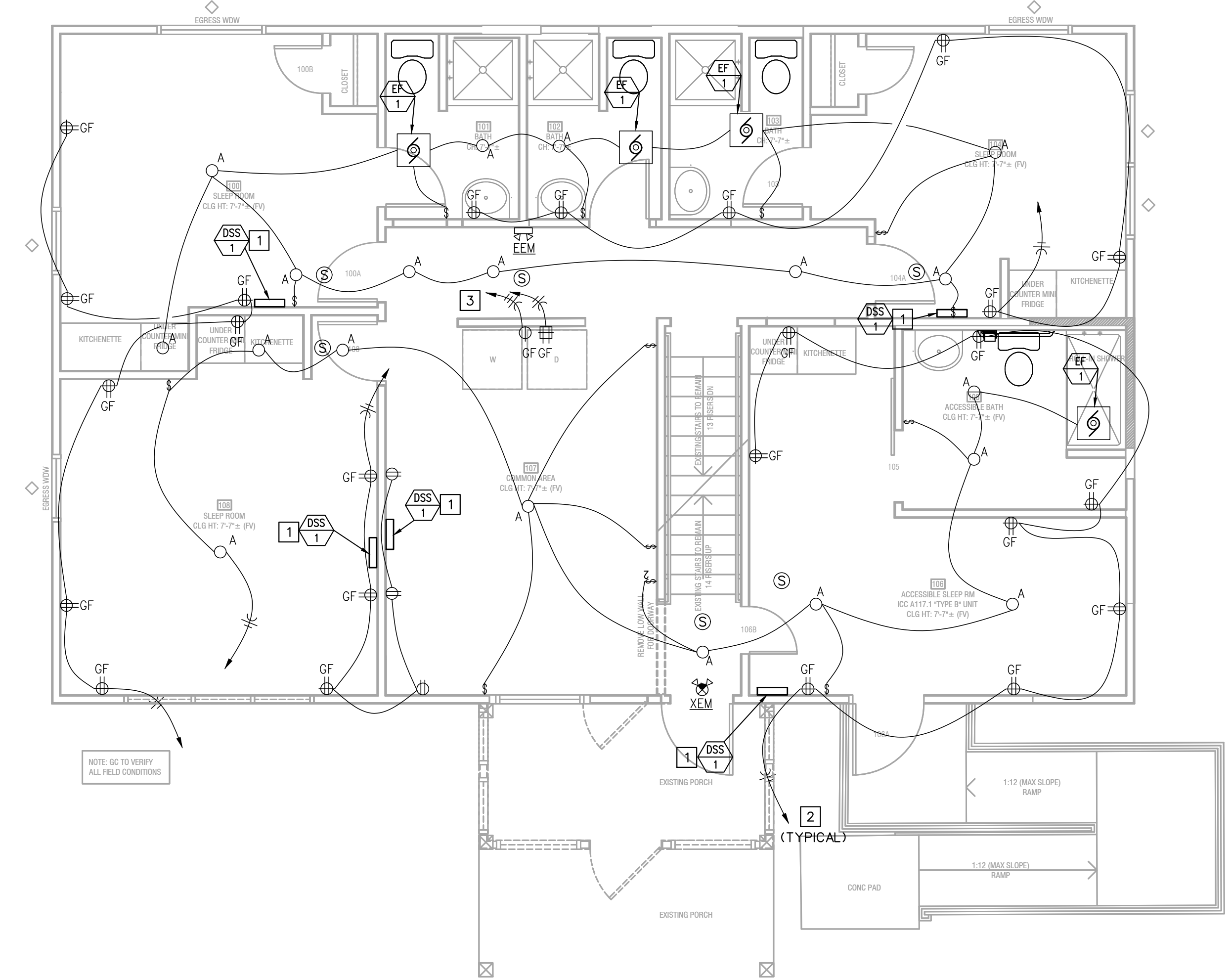
BASEMENT LEVEL LIGHTING/ POWER FLOOR PLAN

1/4" = 1'-0"



1ST LEVEL LIGHTING/POWER PLAN NOTES

- POWER FROM INDOOR UNIT PROVIDED FROM OUTDOOR UNIT.
- EXTEND BACK TO 20-A CB AT PANEL P1 OR P2.
- THREE #10 CU BACK TO 2-POLE, 30-AMP CB AT PANEL P1.



1ST LEVEL LIGHTING/ POWER FLOOR PLAN

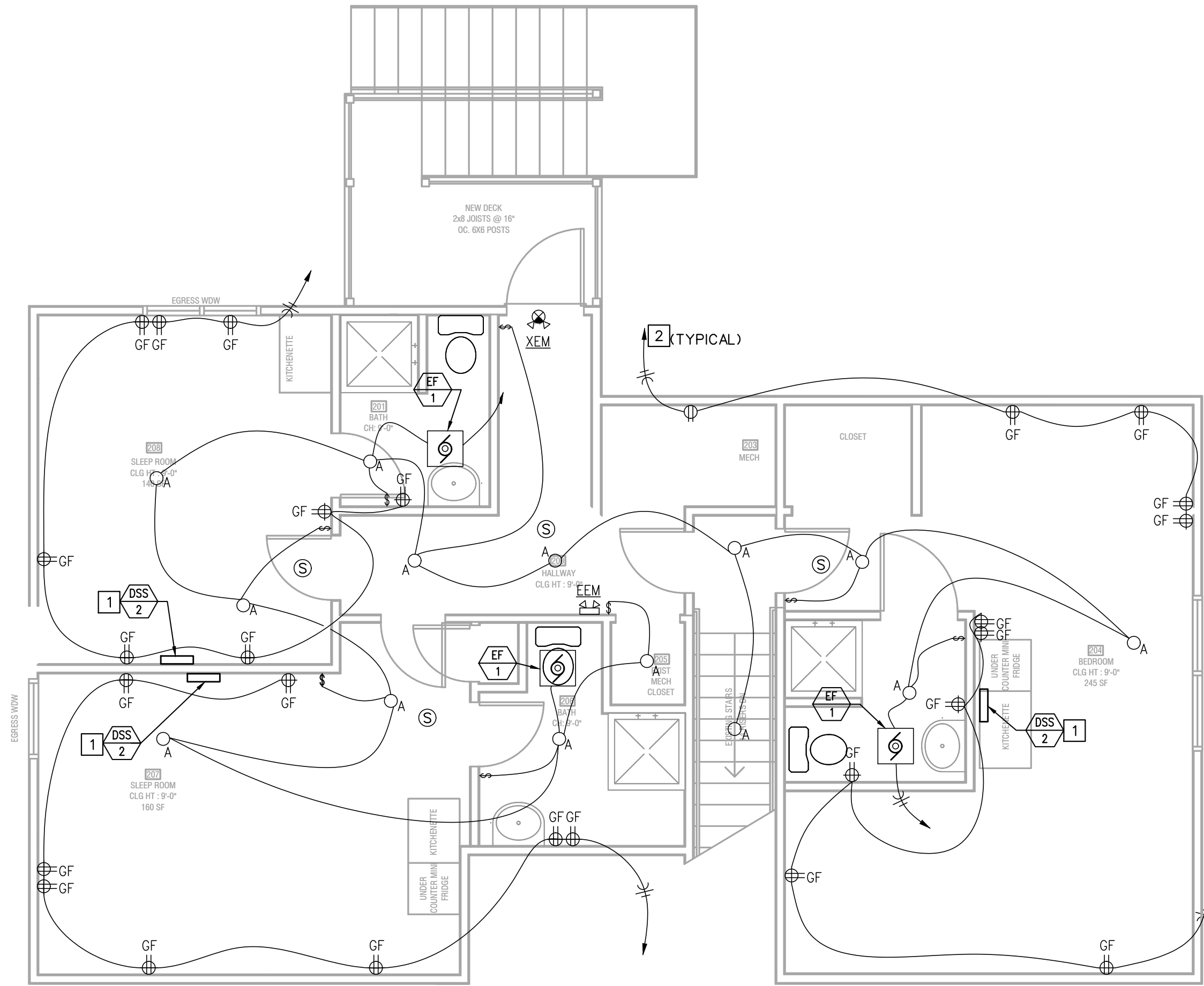
1/4" = 1'-0"



Q:\GEG PROJECTS\PROJECTS 23\AEC_23097F_63RD ST HALFWAY HOUSE_23097F_E200_2023-10-29_24X36_MKS.DWG : 10/30/2023 9:01:33 AM : ggladfelter

SECOND FLOOR POWER PLAN NOTES

1. POWER FOR INDOOR DSS PROVIDED FROM OUTDOOR DSS UNIT.
2. EXTEND BACK TO 20-A CB AT PANEL P1 OR P2.



2ND LEVEL LIGHTING\ POWER FLOOR PLAN

1/4" = 1'-0"



REVIEWED FOR CODE COMPLIANCE
 City Planning & Development
 Development Services
 City of Kansas City, Missouri
 [Signature]
 Jeff Lee, P.E., M.C.P.
 Building Official
 Date: 07/10/2024 By: jlee

Case Number CRBC-2023-40303

ELECTRICAL GENERAL NOTES

- SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES.
- COORDINATE NEMA RATING OF APPLIANCE PLUGS WITH THE EQUIPMENT SPECIFICATIONS.
- ALL RECEPTACLES WITHIN 6' OF WATER BEARING FIXTURES, EXTERIOR OUTLETS AND ALL OUTLETS IN KITCHEN AREAS SHALL BE GFI STYLE OR THE CIRCUIT SERVING THOSE DEVICES SHALL BE PROTECTED BY MEANS OF A GFI CIRCUIT BREAKER.
- OUTLET AND SWITCH BOXES INSTALLED IN RATED WALLS SHALL BE PROVIDED WITH UL LISTED PUTTY PADS TO PROTECT THE RATING OF THE WALL.
- CONNECT ALL NIGHT LIGHT, EXIT LIGHT AND EMERGENCY LIGHT FIXTURES TO UNSWITCHED HOT-LEG OF NEAREST 120V LIGHTING CIRCUIT IN SAME AREA.
- ALL BRANCH CIRCUITS SERVING OUTLETS IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, BEDROOMS, CLOSETS, HALLWAYS, AND SIMILAR ROOMS SHALL BE PROTECTED BY A LISTED ARC-FAULT INTERRUPTER IN ACCORDANCE WITH ARTICLE 210-12 OF THE 2011 NEC.



HALFWAY HOUSE
 8705 E 63rd ST
 KCMO



JOB NO.:	23097F
DATE:	10/30/2023
REVISIONS:	
	10/30/2023 PERMIT
	12/27/2023 ADDENDUM #1
	07/10/2024 ADDENDUM #3
DESIGNED BY:	GEG
DRAWN BY:	GEG
CHECKED BY:	GEG
SHEET NO.	

E201

C:\GEG PROJECTS\PROJECTS 23\AEC_23097F_63RD ST HALFWAY HOUSE_23097F_E201_2023-10-29_24X36_MKS.DWG : 7/11/2024 10:54:15 PM : GFGladfelter

C:\GEG\PROJECTS\PROJECTS 23\AEC_23097F_63RD ST HALF WAY HOUSE\23097F_E300_2023-10-29_24x36_MKS.DWG : 7/11/2024 10:52:47 PM : GFClodfelder

PANEL P1		240 VOLTS		<input type="checkbox"/> 200 A. BUS		<input checked="" type="checkbox"/> SERVICE ENTRANCE			
SECTION 1 OF 1		3 WIRE		<input type="checkbox"/> MAIN LUGS ONLY		<input type="checkbox"/> SUBFEED LUGS			
CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA	CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA
1	PANEL P2	100	2	8250	A 2	SMOKE DETECTORS	20	1	300
3	RECEPTACLES	20	1	8250	B 4	RECEPTACLES	20	1	-
5	RECEPTACLES	20	1	1440	A 6	RECEPTACLES	20	1	-
7	RECEPTACLES	20	1	1440	B 8	RECEPTACLES	20	1	-
9	RECEPTACLES	20	1	-	A 10	DSS-1	30	2	2868
11	RECEPTACLES	20	1	-	B 12		2868		
13	RECEPTACLES	20	1	-	A 14	RECEPTACLES	20	1	-
15	DSS-2	30	2	1896	B 16	RECEPTACLES	20	1	-
17				1896	A 18	RECEPTACLES	15	1	-
19	RECEPTACLES	20	1	-	B 20	2ND FLOOR LIGHTING	15	1	600
21	RECEPTACLES	20	1	-	A 22	RECEPTACLES	20	1	-
23	RECEPTACLES	20	1	-	B 24	DRYER	30	2	-
25	RECEPTACLES	20	1	-	A 26				
27	WH 1	30	2	2250	B 28	WH 1	30	2	2250
29				2250	A 30				2250
TOTAL CONNECTED LOAD		-		VA	DEMAND FACTORS:		NEUTRAL BUS		100 %
<input type="checkbox"/> SURFACE MOUNTED		LIGHTS @ 125 % =		3000	VA		POWER FACTOR		100 %
<input type="checkbox"/> FLUSH MOUNTED		RECEPTS @ 100 % =		10000	VA		RECEPTS @ 50 % =		1715
		OTHER @ 100 % =		23528	VA		TOTAL DEMAND LOAD		159.4
		TOTAL DEMAND LOAD =		38243	VA		DEMAND CURRENT		159.4

- NOTES:
1. CONFIRM 15A CIRCUIT BREAKERS SERVE #14 CONDUCTORS, 20-A CIRCUIT BREAKERS SERVE #12 CONDUCTORS.

ESc200A

PANEL P2		240 VOLTS		<input type="checkbox"/> 125 A. BUS		<input type="checkbox"/> SERVICE ENTRANCE			
SECTION 1 OF 1		3 WIRE		<input type="checkbox"/> MAIN LUGS ONLY		<input type="checkbox"/> SUBFEED LUGS			
CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA	CIRC. NO.	CIRCUIT DESCRIPTION	CIRC. AMPS	BRKR. POLES	VA
1	MAIN BREAKER	100	2	-	A 2	SPACE	-	-	-
3	RECEPTACLES	20	1	1260	B 4	SPACE	-	-	-
5	RECEPTACLES	20	1	900	A 6	EXTERIORS	20	1	300
7	RECEPTACLES	20	1	1080	B 8	RECEPTACLES	20	1	1080
9	MAIN LEVEL LIGHTING	20	1	600	A 10	RECEPTACLES	20	1	-
11	RECEPTACLES	20	1	1080	B 12	WH 1	30	2	2250
13	RECEPTACLES	20	1	1440	A 14				2250
15	RECEPTACLES	20	1	1080	B 16	RECEPTACLES	20	1	900
17	BASEMENT LIGHTING	20	1	600	A 18	RECEPTACLES	20	1	-
19					B 20	RECEPTACLES	20	1	-
21	SPARE	30	2	-	A 22	RECEPTACLES	20	1	-
23	RECEPTACLES	20	1	1440	B 24	RECEPTACLES	20	1	-
TOTAL CONNECTED LOAD		-		VA	DEMAND FACTORS:		NEUTRAL BUS		100 %
<input type="checkbox"/> SURFACE MOUNTED		LIGHTS @ 125 % =		1875	VA		POWER FACTOR		100 %
<input type="checkbox"/> FLUSH MOUNTED		RECEPTS @ 100 % =		10000	VA		RECEPTS @ 50 % =		125
		OTHER @ 100 % =		4500	VA		TOTAL DEMAND LOAD		68.8
		TOTAL DEMAND LOAD =		16500	VA		DEMAND CURRENT		68.8

- NOTES:
1. CONFIRM 15A CIRCUIT BREAKERS SERVE #14 CONDUCTORS, 20-A CIRCUIT BREAKERS SERVE #12 CONDUCTORS.

ESc200A

TYPE	MANUFACTURER	LAMP	VOLTS WATTS
A	OWNER SELECTED FIXTURE	LED	120 11.2
EM	EXITRONIX #LED90	(2) LED HEADS WITH UNIT	120 10
EEM	EXITRONIX #MLED	WEATHERPROOF LED REMOTE	6 8
XEM	EXITRONIX #VLED-1-WH-EL90-R	RED LED AND (2) LED HEADS WITH UNIT	120 15
X	EXITRONIX #VEX-U-BP-WB-WH-120	RED LED WITH UNIT	120 5
X2	EXITRONIX #VEX-U/2-BP-WB-WH-120	RED LED WITH UNIT	120 5

NOTES:
1. TYPE 'X' AND/OR 'XEM' FIXTURES SHALL HAVE 12 WATTS OF REMOTE CAPACITY AND POWER TYPE 'EEM'.

REVIEWED FOR CODE COMPLIANCE
City Planning & Development
Development Services
City of Kansas City, Missouri
[Signature]
JESSICA P.E., M.C.P.
Building Official
Date: 07/24/2024 By: jessp

Case Number CRBC-2023-40303

ELECTRICAL SYMBOLS

- BRANCH CIRCUIT CONCEALED IN CEILING OR WALL. ARROWS INDICATE HOMERUNS TO PANEL. ALL CONDUCTORS ARE #12 EXCEPT AS NOTED.
- CONDUIT RUN UNDERGROUND OR BENEATH FLOOR SLAB.
- GROUNDING CONDUCTOR #12 EXCEPT AS NOTED.
- WALL MOUNTED JUNCTION BOX.
- CEILING MOUNTED JUNCTION BOX.
- PANELBOARD (SURFACE MOUNTED). INSTALL W/TOP 6'-0" AFF.
- DISCONNECT SWITCH. SIZED AS NOTED.
- DISCONNECT SWITCH FURNISHED WITH EQUIPMENT.
- SINGLE POLE SWITCH. +3'-10" AFF.
- DUPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED.
- DUPLEX RECEPTACLE WITH WEATHERPROOF PLATE. HEIGHT AS NOTED.
- DUPLEX RECEPTACLE W/GROUND FAULT PROTECTION. +1'-6" AFF OR AS NOTED.
- FOURPLEX RECEPTACLE. +1'-6" AFF OR AS NOTED.
- FOURPLEX RECEPTACLE INSTALLED ABOVE COUNTERTOP.
- HEAVY DUTY RECEPTACLE. VOLTAGE, PHASE AND AMPS AS NOTED. +1'-6" AFF OR AS NOTED.
- COMBINATION VOICE/DATA OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. INSTALLED ABOVE COUNTERTOP.
- COMBINATION VOICE/DATA OUTLET WITH 3/4" CONDUIT STUBBED UP OUT OF BOX TO ABOVE ACCESSIBLE CEILING. INSTALLED ABOVE COUNTERTOP.
- HEIGHT TO CENTERLINE OF OUTLET BOX ABOVE FINISHED FLOOR.
- WH-1 ELECTRIC WATER HEATER AND NUMBER.
- EF-1 EXHAUST FAN AND NUMBER.
- CU-1 CONDENSING UNIT AND NUMBER.
- F-1 FURNACE AND NUMBER.
- AFF ABOVE FINISH FLOOR.
- ETR EXISTING TO REMAIN.
- ER EXISTING RELOCATED.
- EC ELECTRICAL CONTRACTOR.
- EGC EQUIPMENT GROUNDING CONDUCTOR.
- GEC GROUNDING ELECTRODE CONDUCTOR.
- MBJ MAIN BONDING JUMPER.

ELECTRICAL GENERAL NOTES

- CONTRACTOR SHALL COORDINATE INSTALLATION REQUIREMENTS AND SCHEDULING OF ALL WORK WITH BUILDING REPRESENTATIVE AND GENERAL CONTRACTOR.
- INSTALLATION SHALL COMPLY WITH 2017 EDITION OF THE NEC AND LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN MUNICIPALITY WHERE PROJECT IS LOCATED.
- ALL EXPOSED WIRING SHALL BE INSTALLED IN CONDUIT. EMT CONDUIT WITH SET SCREW FITTINGS MAY BE UTILIZED WHERE PERMITTED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2". NM CABLE MAY BE USED WHERE ALLOWED BY THE CODE.
- ALL WIRING SHALL BE COPPER WITH 600 VOLT INSULATION AND COLOR CODED (THHN) UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMIT AND INSPECTION FEES.
- INSTALL BLANK COVER PLATE ON ALL PULL BOXES AND JUNCTION BOXES.
- ALL WIRING DEVICES SHALL BE RATED 20 AMP, OR AS NOTED.
- DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, NEMA 1 FOR INDOOR AND NEMA 3R FOR OUTDOOR INSTALLATIONS. MANUFACTURED BY SQUARE D, ITE/SIEMENS, GE, OR CUTLER-HAMMER.
- FURNISH MATERIALS AND LABOR FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.
- MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE 'UL' LABELS AS REQUIRED.
- E.C. SHALL VERIFY RATINGS, LOCATIONS, AND CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS AND INSTALLED AND/OR CONNECTED BY THE ELECTRICAL CONTRACTOR.
- E.C. SHALL PROVIDE AND INSTALL SMOKE AND FIRE STOPS AT ALL CONDUIT PENETRATIONS OF SMOKE AND FIRE-RATED WALLS AND CEILINGS.
- CAULK AND SEAL ALL RACEWAY PENETRATIONS OF EXTERIOR OR DEMISING WALLS.
- THE CONTRACTOR SHALL TAKE CARE TO MAINTAIN THE INTEGRITY OF ALL FIRE RATED AND SOUND RATED ASSEMBLIES.
- E.C. SHALL COORDINATE LOCATIONS OF ALL DEVICES, SUCH AS LIGHT SWITCHES, CONVENIENCE RECEPTACLES, TELEVISION OUTLETS, AND TELEPHONE OUTLETS WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-IN.
- NEW PANELBOARDS SHALL BE ITE/SIEMENS TYPE 'P2', WITH BOLT-ON CIRCUIT BREAKERS, ALUMINUM BUS, NEMA 1 ENCLOSURE, GROUND, AND NEUTRAL BUS. AIC RATING TO MATCH EXISTING SYSTEM. EQUALS BY SQUARE 'D', G.E., OR CUTLER-HAMMER.

MAXIMUM CIRCUIT LENGTH SCHEDULE

CIRCUIT AMPERES	WIRE SIZE	MAXIMUM CIRCUIT LENGTH IN FEET				
		2 WIRE, 1 PHASE			3 WIRE, 3 PHASE	
		120 V	240 V	277 V	208 V	480 V
20	#12	60	125	145	125	285
25	#10	80	160	180	160	365
30	#10	65	130	150	130	305
50	#6	95	195	225	195	450
60	#6	80	160	185	160	375
100	#3	95	195	225	195	450
125	#1	125	250	285	250	575
200	3/0	155	310	360	310	725

- NOTES:
1. ALL CONDUCTORS ARE SOLID COPPER. APPLICATION OF CONDUCTOR SIZE IS LIMITED TO CONDUCTORS WITH THE FOLLOWING INSULATION TYPES: FEPW, RH, RHW, THHW, THW, THWN, XHHW, AND USE, 75°C (167°F).
2. CIRCUIT LENGTH IS THE ONE WAY DISTANCE FROM THE OVER CURRENT PROTECTION DEVICE TO THE POINT OF USE.
3. IF THE INSTALLED CIRCUIT LENGTH EXCEEDS THE INDICATED MAXIMUM CIRCUIT LENGTH INDICATED, THEN THE CONDUCTORS SHALL BE INCREASED ONE NOMINAL WIRE SIZE.



HALFWAY HOUSE
8705 E 63rd ST
KCMO



JOB NO.: 23097F
DATE: 10/30/2023
REVISIONS:
10/30/2023 PERMIT
12/27/2023 ADDENDUM #1
07/10/2024 ADDENDUM #3
DESIGNED BY: GEG
DRAWN BY: GEG
CHECKED BY: GEG
SHEET NO.

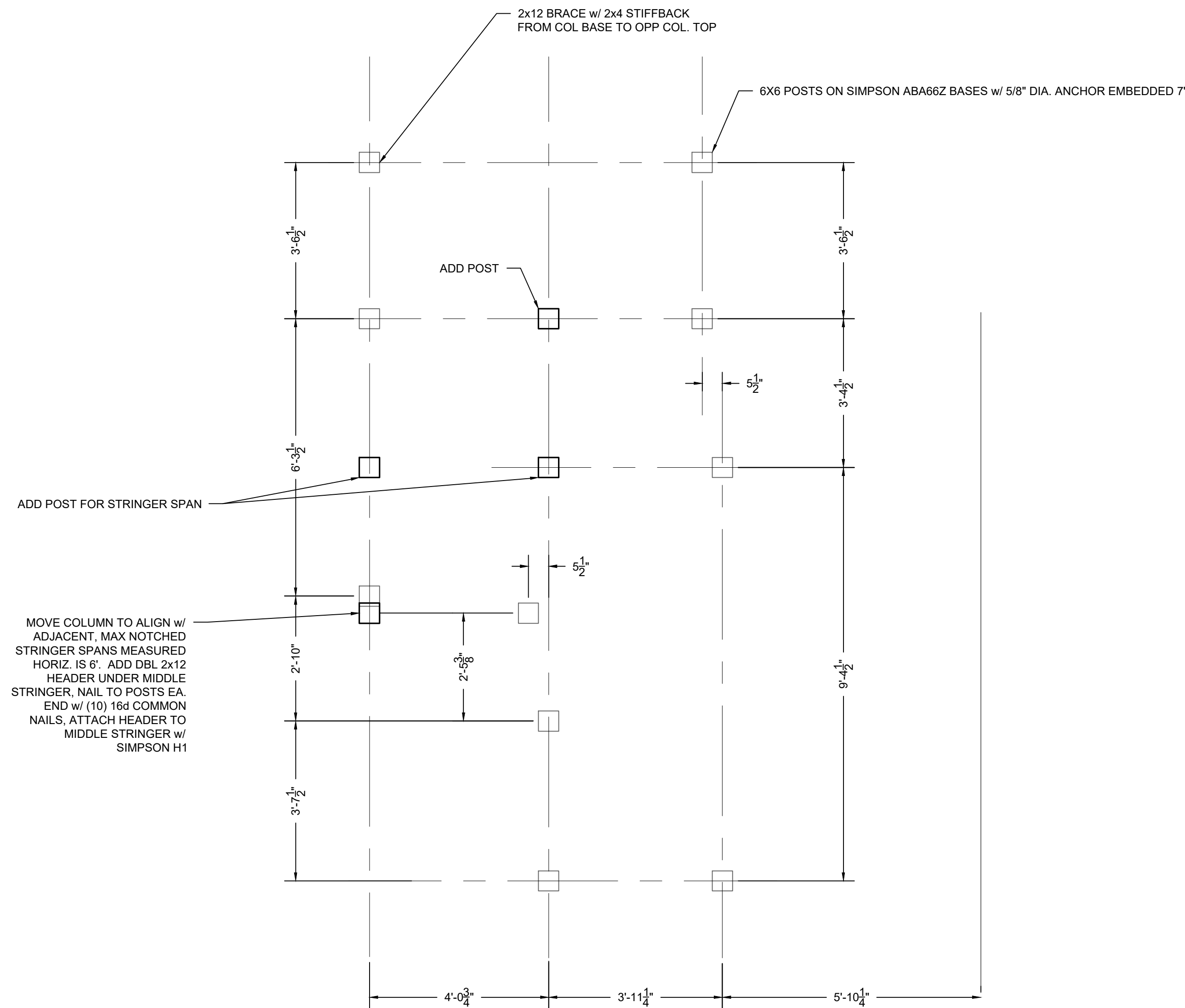
E300

- PLAN NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2018 IRC AND AMERICAN WOOD COUNCILS PRESCRIPTIVE RESIDENTIAL WOOD DECK CONSTRUCTION GUIDE
 - CONCRETE SHALL BE AIR-ENTRAINED PER IRC TABLE R402.2, NOTE (D)
 - CONCRETE COMPRESSIVE STRENGTHS SHALL MEET MIN REQUIREMENTS OF IRC TABLE R402.2 FOR SEVERE WEATHERING, ALSO SHOWN ON GENERAL NOTES SHEET
 - ALL PIERS/FOOTINGS TO BEAR MIN 36" BELOW FINISHED GRADE
 - ALL FLOOR JOISTS SHALL BE 2X10, MIN. @ 16" OC UNO
 - ALL JOIST HANGERS SHALL BE SIMPSON HANGERS OF THE APPROPRIATE SIZE FOR THE MEMBER, UNO
 - DIMENSIONS ARE TO CENTERLINE OF POSTS
 - WHERE 2X12 BRACE IS INSTALLED ON BACK OF INTERMEDIATE PLATFORM, ADD A 2X4 TO CREATE A 'T' SHAPED STIFFBACK
 - ALL SQUARE FOOTINGS SHALL BE MIN. 12"x12"x36" DEEP w/ (4) #4 BARS VERT. EXISTING FOOTINGS ARE 21"x24" WITH RANDOM ORIENTATION. WITH THE COLUMN OFFSET FROM CENTER ON SOME. THESE FOOTINGS ARE ACCEPTABLE PROVIDED ALL COLUMNS HAVE A MIN. 6" FROM CENTERLINE OF COLUMN TO EDGE OF FOOTING
 - ALL DIMENSIONAL LUMBER AND TIMBERS SHALL BE SOUTHERN YELLOW PINE #2 OR BETTER AND PRESSURE TREATED FOR EXTERIOR USE.

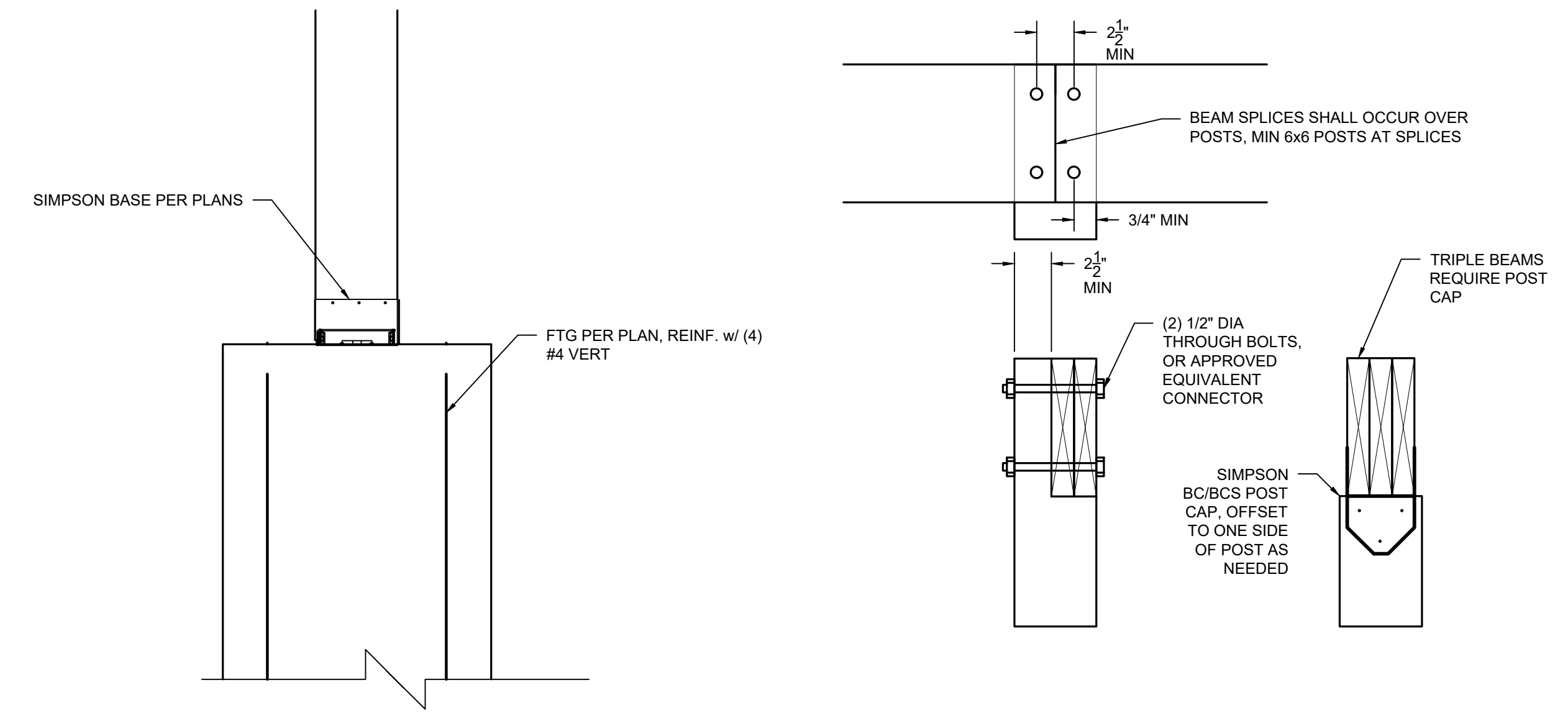
→ FRAMING SPAN DIRECTION

REVIEWED FOR CODE COMPLIANCE
 City Planning & Development
 Development Services
 City of Kansas City, Missouri
 Jeff Lee, P.E., M.C.P.
 Building Official
 Date: 07/24/2024 By: jleepp

Case Number CRBC-2023-40303

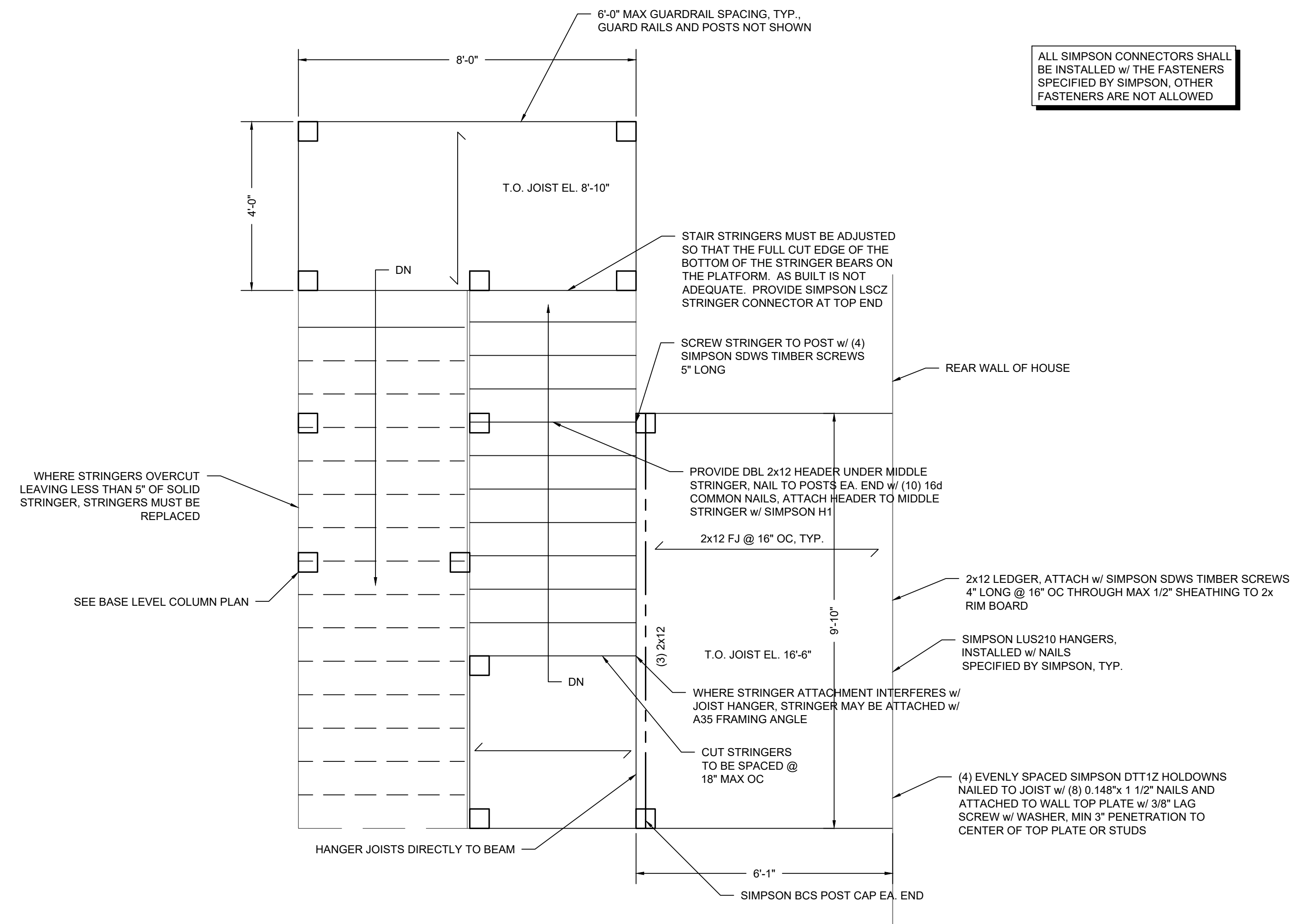


① BASE LEVEL COLUMN PLAN
 SCALE: 1/2"=1'-0"



③ POST TO FTG DETAIL
 SCALE: 1 1/2"=1'-0"

④ POST TO BEAM CONNECTION
 SCALE: 1 1/2"=1'-0"



ALL SIMPSON CONNECTORS SHALL BE INSTALLED w/ THE FASTENERS SPECIFIED BY SIMPSON, OTHER FASTENERS ARE NOT ALLOWED

② DECK PLAN
 SCALE: 1/2"=1'-0"

REVISION LIST

SHEET NAME

STRUCTURAL PLAN

S100

