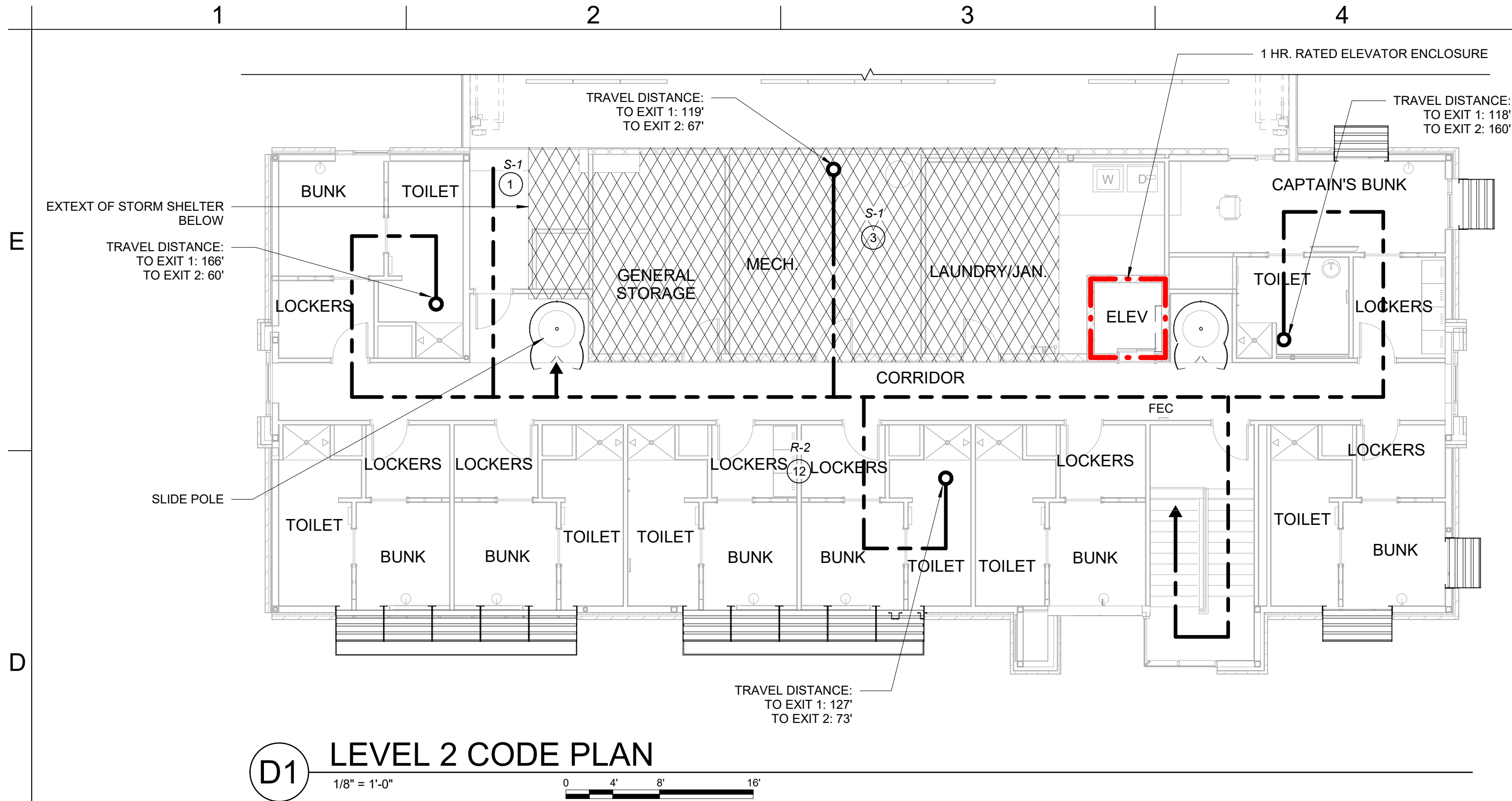


FILE PATH: BIM 360://18225R21001_LeeSummitFireStation_#4 and #5/LSMO FireStation 5.rvt



CODE INFORMATION

I. Applicable Codes

- A. 2018 IBC
C. 2020 ICC 500
D. ICC/ANSI A117.1-2009
E. 28 CODE OF FEDERAL REGULATIONS (CFR) PART 35.15 AS DETAILED IN THE DEPARTMENT OF JUSTICE TITLE II ADA REGULATIONS AND THE 2010 ADA STANDARDS OF ACCESSIBLE DESIGN

II. Building Information:

- A. II-B Construction (Per IBC 602)
B. Fully Sprinklered (Per IBC 901.2)
C. Full Perimeter Frontage (Per IBC 506.3)
D. Use Group: Mixed Non-separated S-1, S-2, B, R-2 (Per IBC 508.3)

III. Code Compliance Summary:

A. Building Height & Area:

1. Allowable Area / Stories / Height per IBC Table 504.3, 504.4, 506.2, Fully-Sprinklered:
S-1: 52,500 sf / 3-story / 75 ft. (S-1 most restrictive height)
S-2: 78,000 sf / 4-story / 75 ft.
B: 69,000 sf / 4-story / 75 ft.
R-2: 48,000 sf / 5-story / 75 ft. (R-2 most restrictive area)

2. Allowable:

Height: 3-story, 75 ft.
Area per story: 48,000 sf

3. Proposed:

Height: 2-Story Building, 33 ft
Area:
7,692 sf - First Floor
3,754 sf - Second Floor
11,446 sf - Total

98 sf - Mezzanine above Apparatus Bays
3,606 sf - Apparatus Bay

per IBC 505.2.1: "The aggregate area of a mezzanine or mezzanines within a room shall not exceed one-third of the floor area of that room or space in which they are located."

"Exception 2: The aggregate area of mezzanine in building and structures of Type I or II construction shall be not greater than one-half of the floor area of the room in buildings and structures equipped throughout with an approved automatic sprinkler system in accordance with Section 903.1.1 and an approved emergency voice/alarm communication system in accordance with Section 907.5.2.2."

B. Fire Resistance Ratings

1. Building Elements per IBC Table 601

	Required	Proposed
Exterior Load Bearing Walls	0 hr.	0 hr.
Interior Load Bearing Walls	0 hr.	0 hr.
Structural Frame	0 hr.	0 hr.
Floor Construction	0 hr.	0 hr.
Roof Construction	0 hr.	0 hr.

2. Corridors with Sprinkler System per IBC-T 1020.1

A, B, E, F, M, S, U
R per Code modification. See sheet G-003
Elevator Shaft Enclosure

Notes:

- a. Per IBC 708.4: "Fire partitions shall extend from the top of the foundation or floor/ceiling assembly below to one of the following: 1. The underside of the floor or roof sheathing, slab or deck above. 2. The underside of a floor/ceiling or roof/ceiling assembly having a fire-resistance rating that is not less than the fire-resistance rating of the fire partition."
- b. Also, per IBC 708.4.1: "The supporting construction for a fire partition shall have a fire-resistance rating that is equal to or greater than the required fire-resistance rating of the supported fire partition. Exception: In buildings of Types IIB, IIIB and VB construction, the supporting construction requirement shall not apply to fire partitions separating tenant spaces in covered and open mall buildings, fire partitions separating dwelling units, fire partitions separating sleeping units and fire partitions serving as corridor walls."

3. Exterior Walls per Separation Distance IBC Table 602:

Greater than 30 feet	0 hr.	0 hr.
Less than 5 feet	1 hr.	1 hr.

4. Maximum Area of Exterior Wall Openings Based on Fire Separation Distance and Degree of Opening

Protection per IBC Table 705.8

5 to less than 10 feet, Unprotected, Sprinklered (UP,S)

25%

5. Accessory Storage room separation (>100sf)

0 hr.

C. Occupant Load (IBC Table 1004.5)

Business	19
Residential	12
Storage	34
Total	65

D. Plumbing Fixtures as Required per IBC Table 2902.1:

Notes:

1. Per IBC 2902.1.1, occupancy shall be viewed at 50% male and 50% female
2. Per IPC 424.2 "In each bathroom or toilet room, urinals shall not be substituted for more than 67 percent of the required water closets in assembly and education occupancies. Urinals shall not be substituted for more than 50 percent of the required water closets in all other occupancies."
3. Occupant loads for plumbing fixture calculations have been calculated in accordance with IPC Table 403.1 and IBC 2902

Business	1894gsf / 100	18.90cc
- Toilets (M):	190cc / 25	0.76
- Toilets (F):	190cc / 25	0.76
- Lavatories (M):	190cc / 25	0.76
- Lavatories (F):	190cc / 25	0.76
- Drinking Fountain:	190cc / 100	0.19
Residential	2538gsf / 200	12.00cc
- Toilets (M):	120cc / 10	1.20
- Toilets (F):	120cc / 10	1.20
- Lavatories (M):	120cc / 10	1.20
- Lavatories (F):	120cc / 10	1.20
- Showers:	120cc / 8	1.50
- Drinking Fountain:	120cc / 100	0.12
Storage	1969gsf / 300	6.60cc
	3606gsf / 200	18.00cc
	322gsf / 50	6.40cc
- Toilets (M):	310cc / 100	0.31
- Toilets (F):	310cc / 100	0.31
- Lavatories (M):	310cc / 100	0.31
- Lavatories (F):	310cc / 100	0.31
- Drinking Fountain:	310cc / 1000	0.03
Totals		
- Toilets (Unisex):	4.54 Required /	11 Provided
- Lavatories (Unisex):	4.54 Required /	11 Provided
- Showers:	1.50 Required /	9 Provided
- Drinking Fountain:	0.34 Required /	1 Provided
- Service Sink:	2 Required /	2 Provided

E. Means of Egress Notes:

1. See Code Plan for additional exit /egress information
2. Per IBC Table 1017.2, Exit Access Travel Distance shall not exceed 250'.

F. Maximum Common Path of Egress Travel

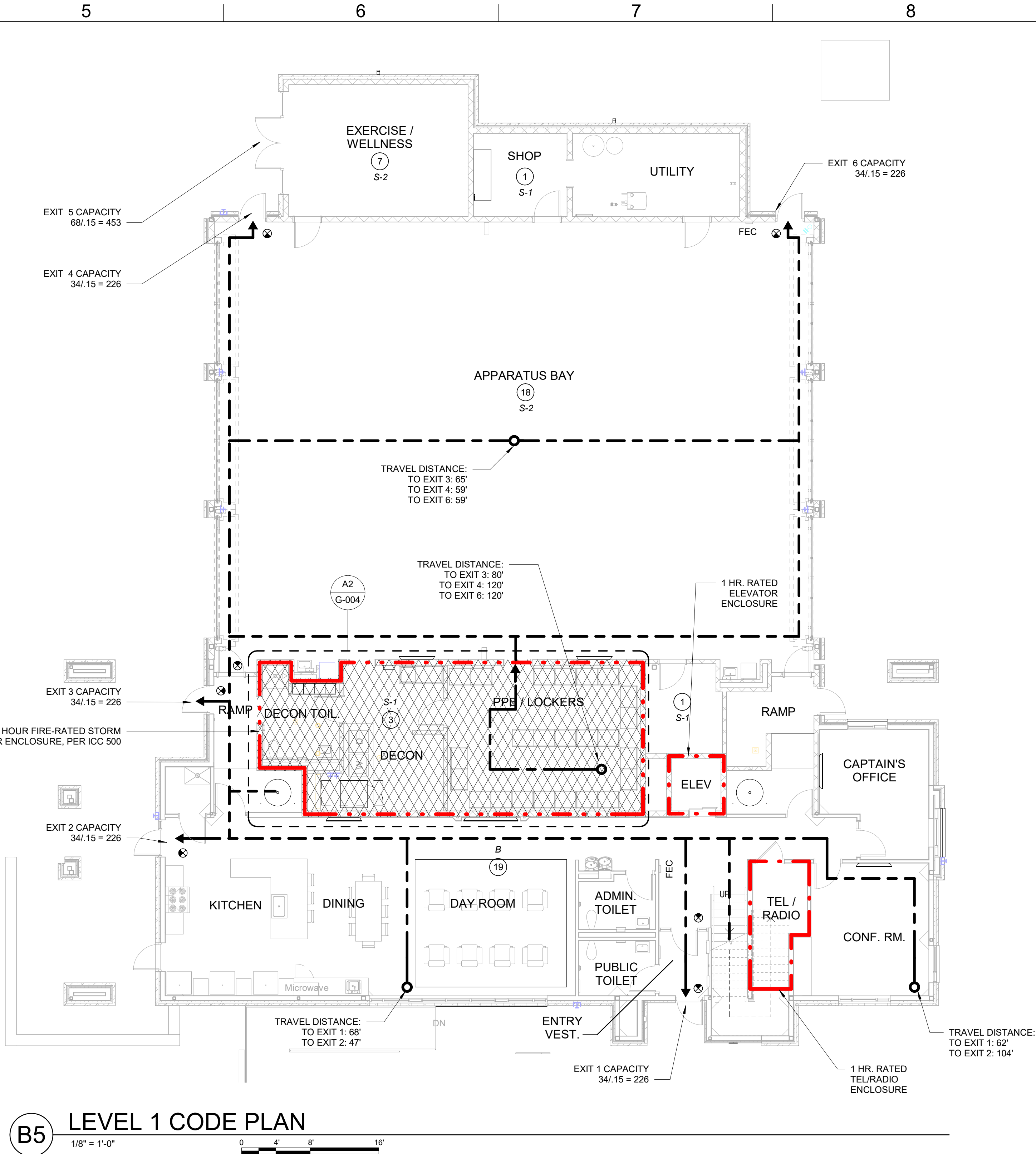
1. Per IBC Table 1006.2.1	Required
B, S	100 ft
R-2	125 ft
All others	75 ft

G. Sprinkler System

1. NFPA 13
2. IBC 903
3. Centrally Monitored

H. Fire Alarm System

1. Per IBC 907.2.9.1, Exception 1: "Manual fire alarm boxes are not required where the building is equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 and the occupant notification appliances will activate throughout the notification zones upon sprinkler waterflow."



CODE PLAN LEGEND

	STORM SHELTER EXTENTS
	NUMBER OF OCCUPANTS PER AREA
	EXIT SIGN
	FIRE EXTINGUISHER CABINET, FULLY RECESSED
	DEFIBRILLATOR CABINET, SEMI-RECESSED
	OCCUPANCY USE
	EGRESS PATH
	1 HR. RATED CONSTRUCTION
	2 HR. RATED CONSTRUCTION

INTERIOR WALL & CEILING FINISH REQUIREMENTS BY OCCUPANCY

PER IBC TABLE 803.13			
Group	INTERIOR EXIT STAIRWAYS AND EXIT PASSAGEWAYS	CORRIDOR AND ENCLOSURE FOR EXIT ACCESS	ROOMS AND ENCLOSED SPACES
B	B	C	C
R-2, S	C	C	C

CLASS A: FLAME SPREAD 0-25; SMOKE DEVELOPED 0-450.
CLASS B: FLAME SPREAD 26-75; SMOKE DEVELOPED 0-450.
CLASS C: FLAME SPREAD 76-200; SMOKE DEVELOPED 0-450.

REVISIONS:

#	Description	Date
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PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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PROJECT NO: 18225R21001

DATE: 11.21.2022

DRAWN BY: JSP

CHK'D BY: PJM

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CODE SUMMARY

G-002

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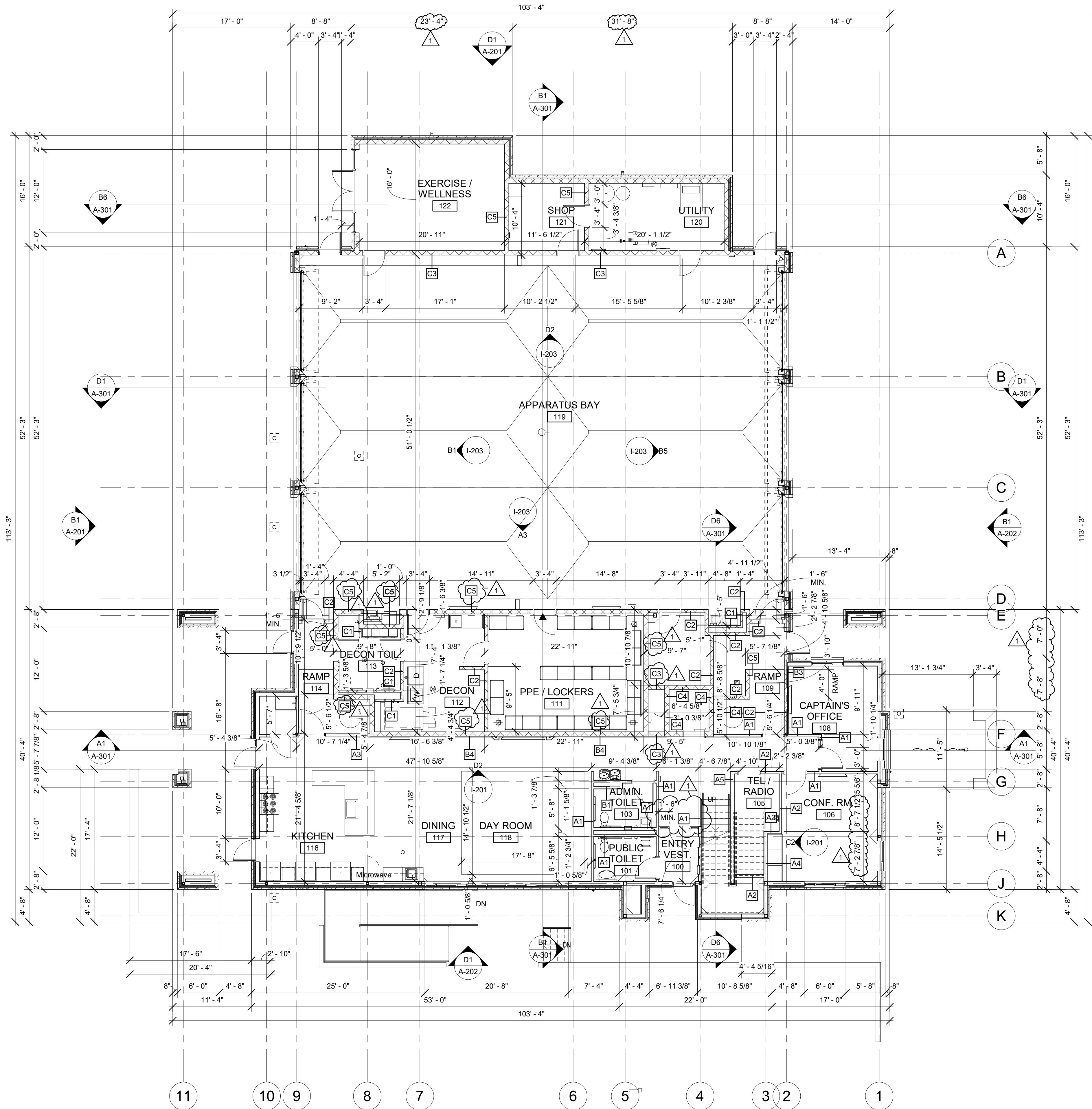
E

D

C

B

A



A3 FIRST FLOOR DIMENSION PLAN
1/8" = 1'-0"



ARCH NOTES

- THE GENERAL CONTRACTOR SHALL COORDINATE ACCESS TO THE SITE, AND THE STORAGE OF MATERIALS AND EQUIPMENT ON SITE WITH THE OWNER.
- THE GENERAL CONTRACTOR SHALL REPAIR DAMAGE TO ANY ADJACENT AREAS OCCURRING DURING CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS TRASH AND OTHER MISCELLANEOUS MATERIALS FROM THE SITE DAILY.
- MAINTAIN EXIT PATHS FOR THE DURATION OF THE CONSTRUCTION.
- CONTRACTOR SHALL NOT REPRODUCE ANY PORTION OF A CONTRACT DRAWING FOR USE IN ANY PORTION OF A SUBMITTAL.
- ALL DIMENSIONS ARE FROM THE FACE OF STUD FRAMING, FACE OF MASONRY, FACE OF CONCRETE, OR CENTER LINE OF STRUCTURAL STEEL (U.N.O.).
- ALL DOORS ARE LOCATED 6 INCHES FROM THE ADJACENT PERPENDICULAR STUD WALL FRAMING AND 8 INCHES FROM THE ADJACENT PERPENDICULAR CMU WALL FRAMING TO THE HINGE SIDE OF THE DOOR OPENING (U.N.O.).
- COORDINATE THE LOCATION AND INSTALLATION OF ALL MECHANICAL AND ELECTRICAL DEVICES, REGISTERS, FIXTURES, ETC. PRIOR TO INSTALLATION OF FINISH MATERIAL.
- ALL A.D.A. ACCESSIBLE WATER CLOSETS MUST BE LOCATED 18 INCHES MINIMUM FROM THE FINISHED FACE OF THE NEAREST ADJACENT WALL TO THE CENTER LINE OF THE FIXTURE (U.N.O.).
- PROVIDE CONTROL JOINTS ON CONTINUOUS GYPSUM BOARD SURFACES IN EXCESS OF 30'-0", AT A MAXIMUM INCREMENT OF 30'-0" ON CENTER (U.N.O.).
- PROVIDE SEALANT IN FLOOR JOINTS OF EXPOSED FINISHES PER FLOOR COATING MANUFACTURER'S RECOMMENDATIONS.
- SEE SHEET A-601 FOR PARTITION TYPES (REFER TO ARCHITECTURAL FLOOR PLANS FOR ADDITIONAL PARTITION IDENTIFICATION).
- REFER TO STRUCTURAL NOTES FOR ALL CAST-IN-PLACE CONCRETE AND MASONRY CONTROL JOINTS.



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FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

#	Description	Date
1	ASB 01	11/21/2022



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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CHK'D BY: PJM

FIRST FLOOR
DIMENSION PLAN

A-103

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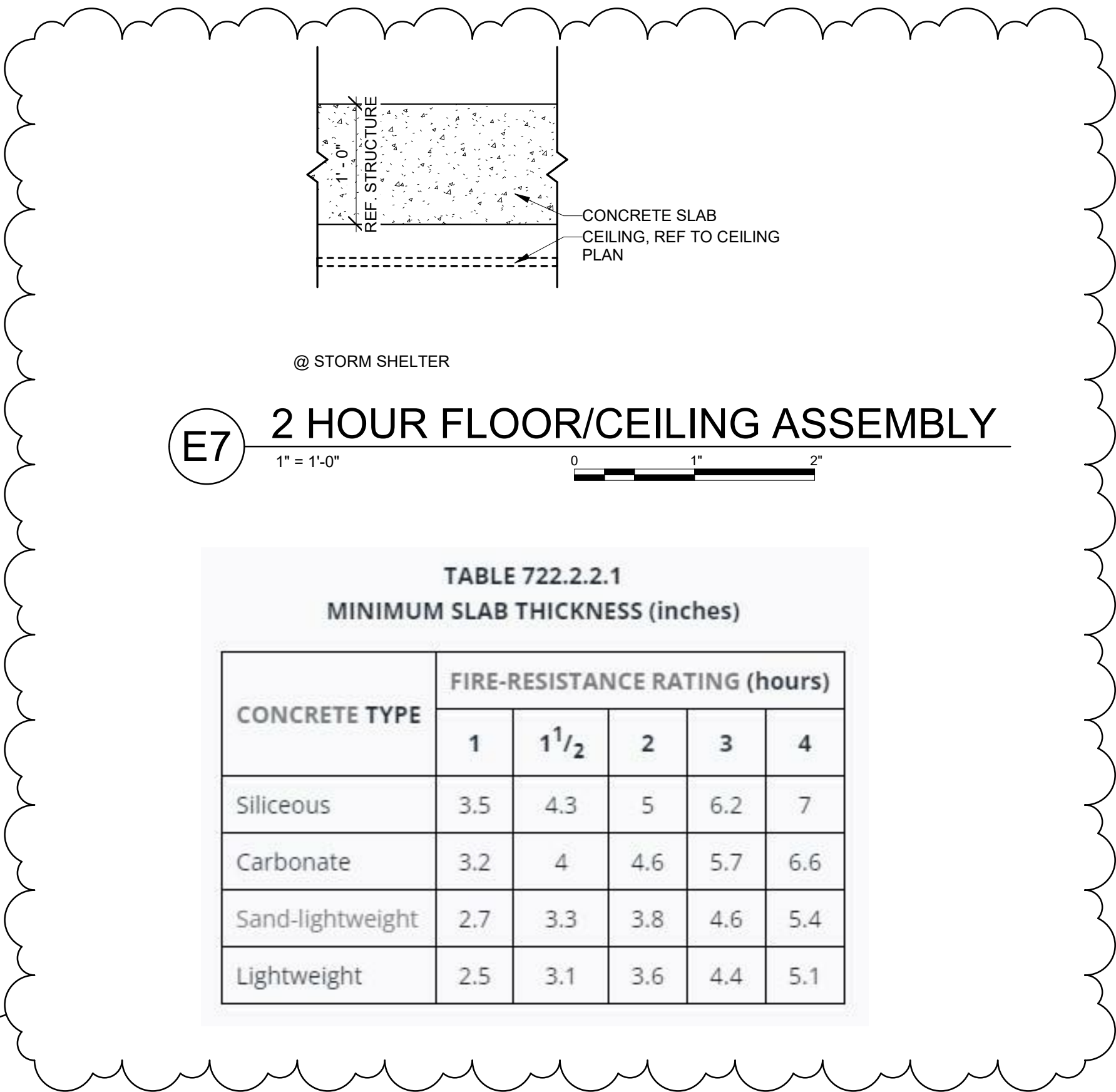
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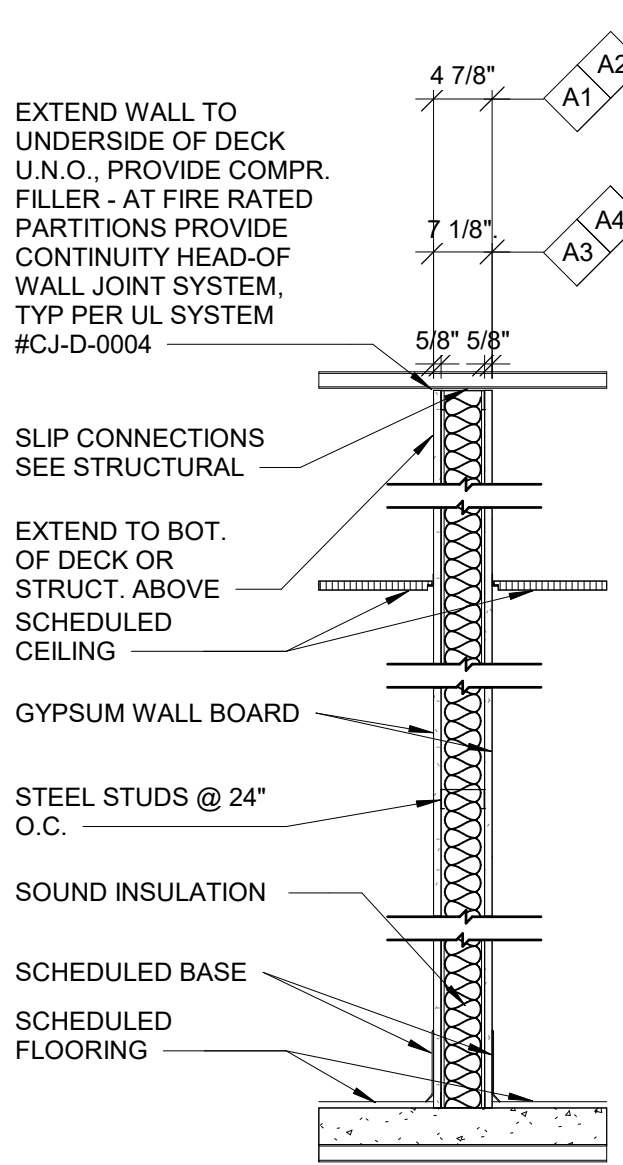
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A

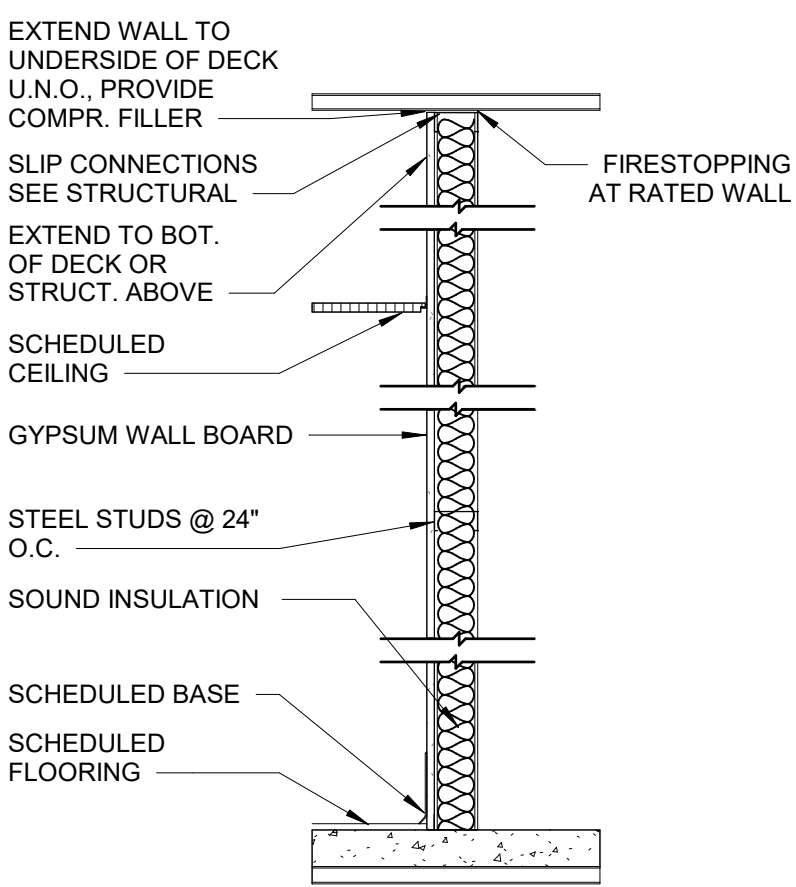


E7 2 HOUR FLOOR/CEILING ASSEMBLY
1" = 1'-0"

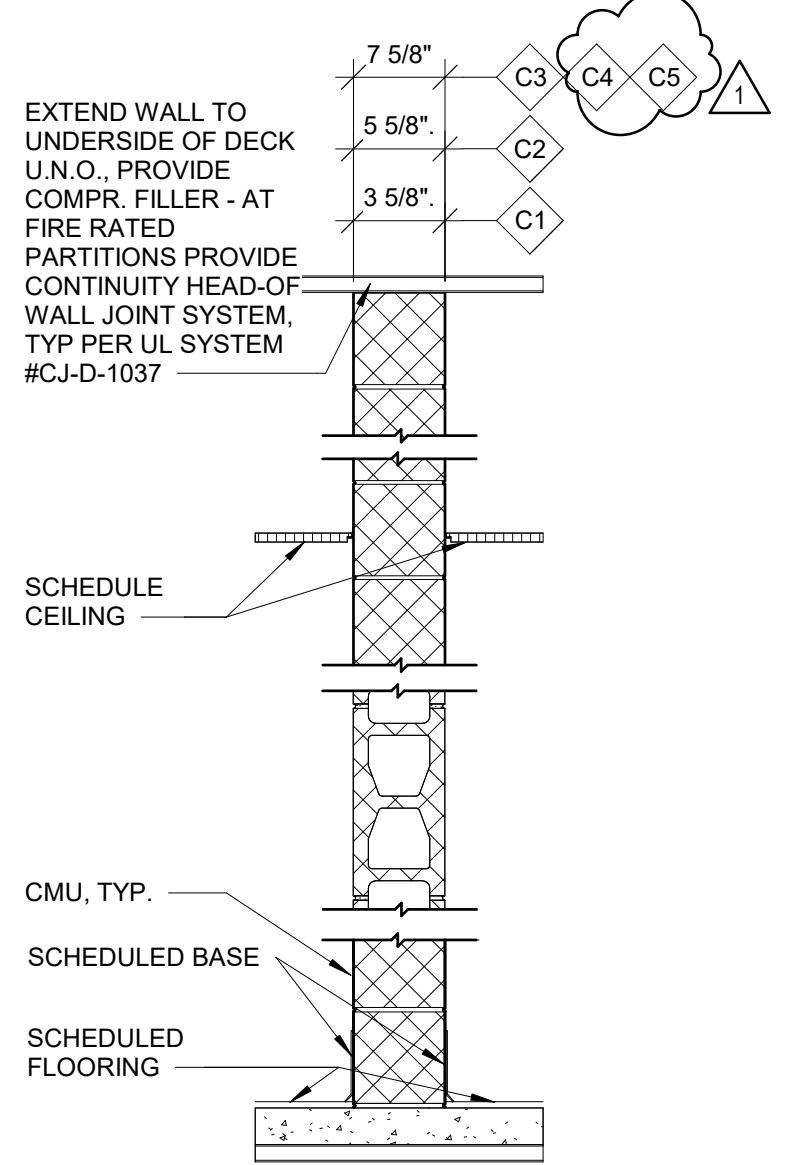
TABLE 722.2.2.1 MINIMUM SLAB THICKNESS (inches)					
CONCRETE TYPE	FIRE-RESISTANCE RATING (hours)				
	1	1½	2	3	4
Siliceous	3.5	4.3	5	6.2	7
Carbonate	3.2	4	4.6	5.7	6.6
Sand-lightweight	2.7	3.3	3.8	4.6	5.4
Lightweight	2.5	3.1	3.6	4.4	5.1



- A1** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" GWB EACH SIDE
- FINISH PER SCHEDULE
- A2** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" TYPE 'X' GWB EACH SIDE
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U419
- STC 48
- A3** 6" STEEL STUD PARTITION
- 1 LAYER 5/8" GWB EACH SIDE
- FINISH PER SCHEDULE
- STC 44
- A4** 6" STEEL STUD PARTITION
- 1 LAYER 5/8" TYPE 'X' GWB EACH SIDE
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U419
- A5** 6" STEEL STUD PARTITION
- 2 LAYERS 5/8" TYPE 'X' GWB ONE SIDE
- 1 LAYER 5/8" TYPE 'X' GWB ONE SIDE
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U419



- B3** 3 5/8" STEEL STUD PARTITION
- 1 LAYER 5/8" GWB 1 SIDE
- B4** 7/8" MTL FURRING CHANNELS@ 24" O.C.
- 1 LAYER 5/8" GWB
- B5** 6" MTL FURRING CHANNELS@ 24" O.C.
- 1 LAYER 5/8" GWB



- C1** 4" NOM. CMU PARTITION
- FINISH PER SCHEDULE
- C2** 6" NOM. CMU PARTITION
- FINISH PER SCHEDULE
- C3** 8" NOM. CMU PARTITION
- FINISH PER SCHEDULE
- C4** 8" NOM. CMU PARTITION
- FINISH PER SCHEDULE
- 1 HR FIRE RATING PER UL DESIGN NO. - U906
- C5** 8" NOM. CMU PARTITION
- FINISH PER SCHEDULE
- 2 HR FIRE RATING PER UL DESIGN NO. - U906

A5 PARTITION TYPES
3/4" = 1'-0"

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#	Description	Date
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STATE OF MISSOURI
PAUL J. MICHELL
NUMBER
A-2009021701
11/21/22
ARCHITECT

PAUL J. MICHELL - ARCHITECT
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PARTITION TYPES

A-601

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UL Product iQ®

BXUV.U906 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U906

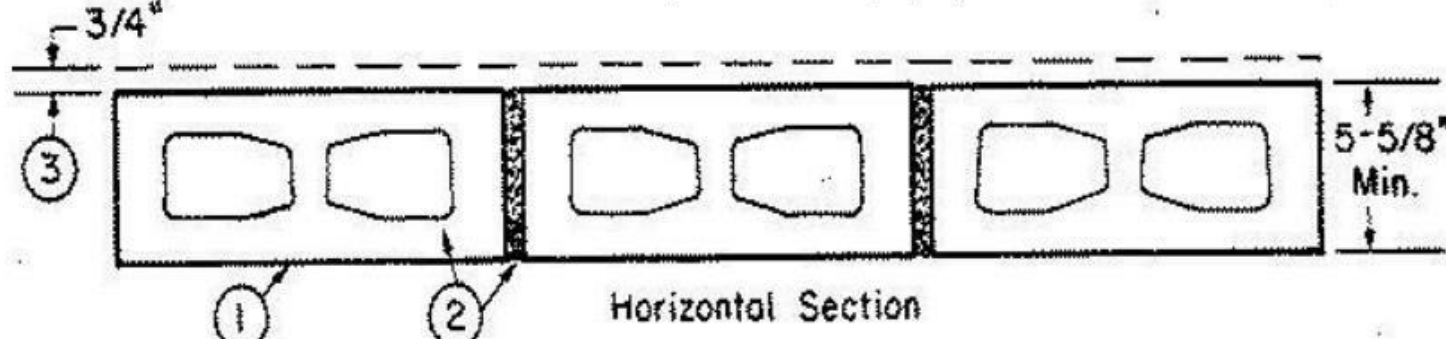
June 6, 2022

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

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



1. **Concrete Blocks*** — Nominal 6 by 8 by 16 in, hollow or solid. Various designs. Classification (2 hr).
See **Concrete Blocks** category for list of eligible manufacturers.

ANCHOR CONCRETE PRODUCTS INC

GAGNE & SON CONCRETE BLOCK INC

GLENWOOD MASONRY PRODUCTS

Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method.

OLDCASTLE APG SOUTH INC, DBA ADAMS PRODUCTS

WESTBROOK CONCRETE BLOCK CO INC

Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.

2. **Mortar** — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster** — Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).

4. **Foamed Plastic*** — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax HI Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty Insulation Board

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci 286", "Xci Foil (Class A)"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath", "Thermasheath-3", "Durasheath-3".

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

4A. **Building Units*** — As an alternate to Item 4, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply"

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

Last Updated on 2022-06-06

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FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

ISSUED FOR CONSTRUCTION

#	Description	Date
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UL DETAILS

A-603

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FILE PATH: BM 360/18225R21001_LeeSummitFireStation_#4 and #5/LSMO_FIRE STATION 5.rvt

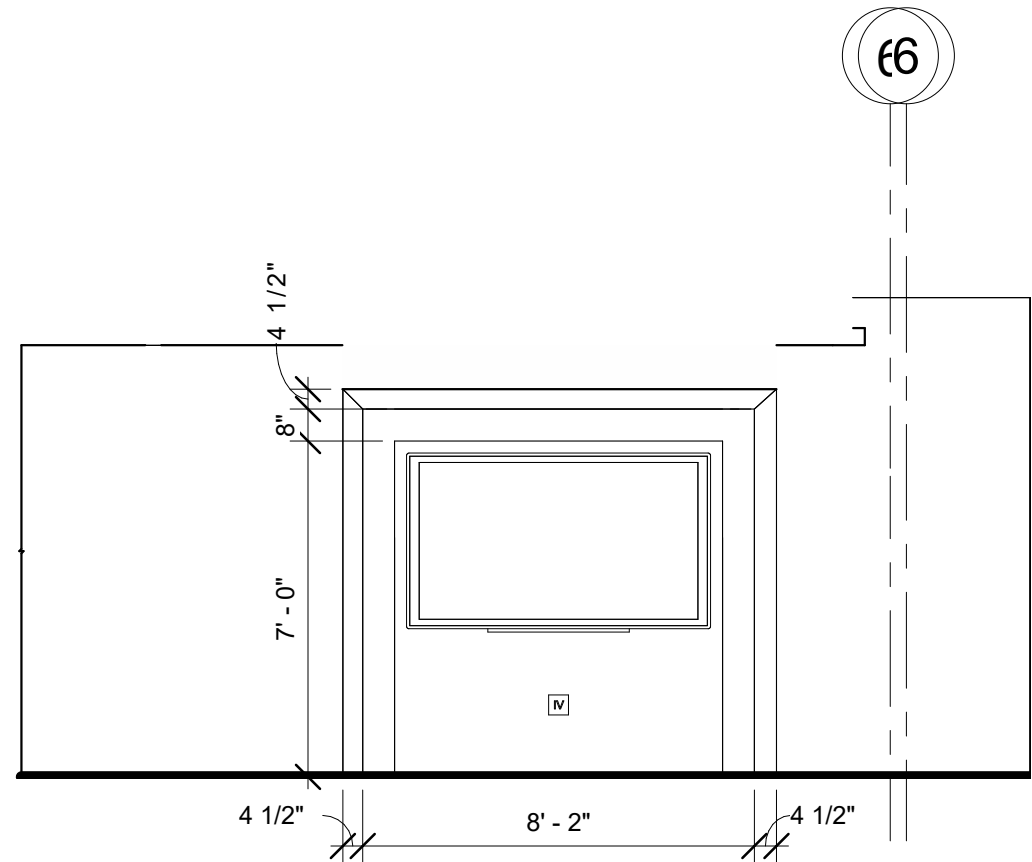
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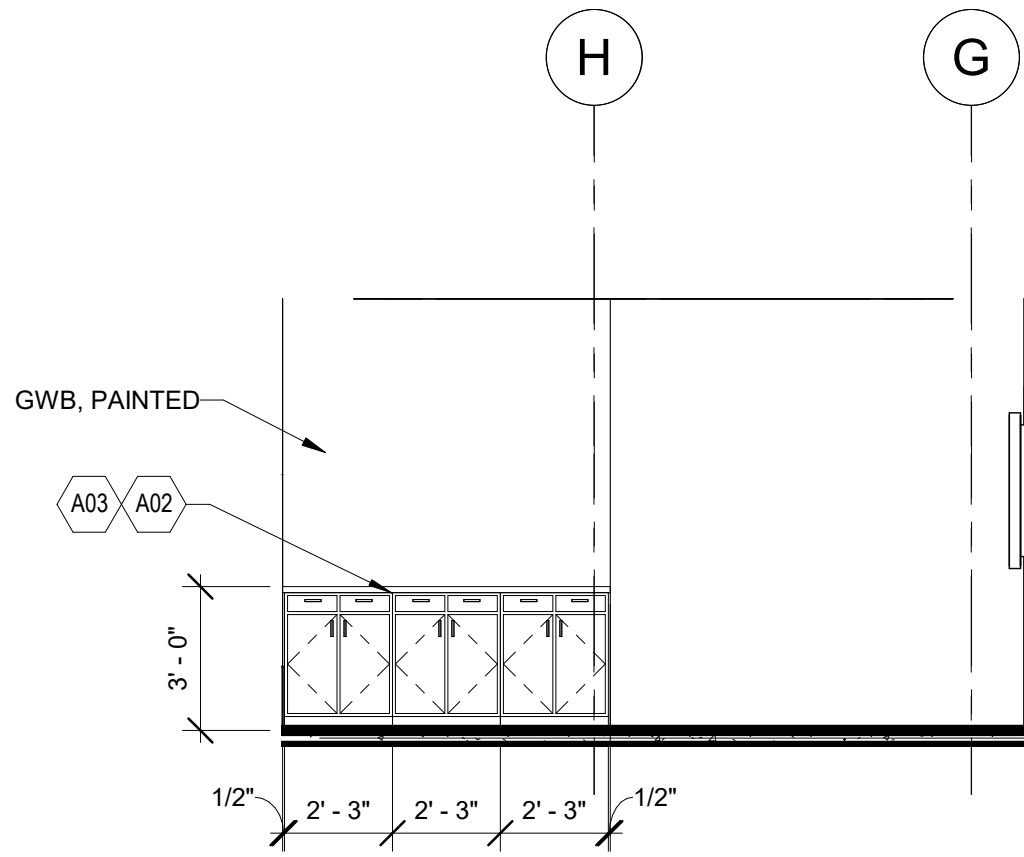
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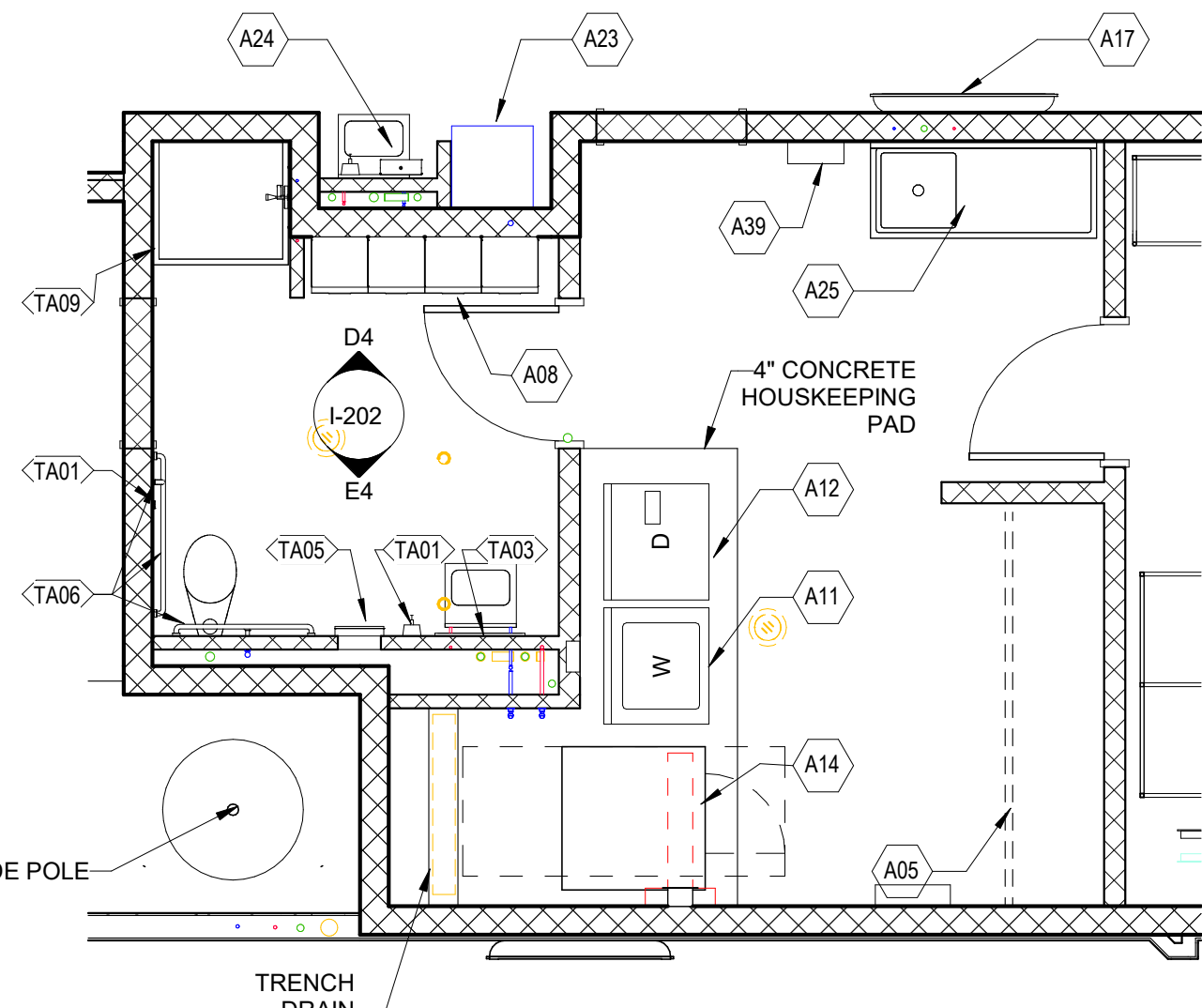
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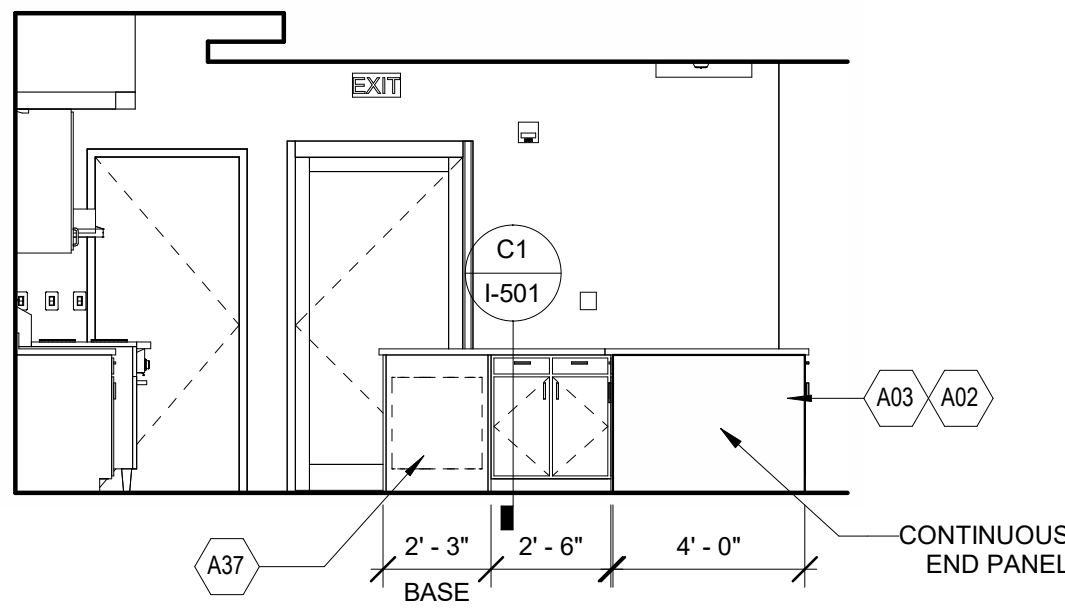
D2 DAY ROOM ELEVATION
1/4" = 1'-0"



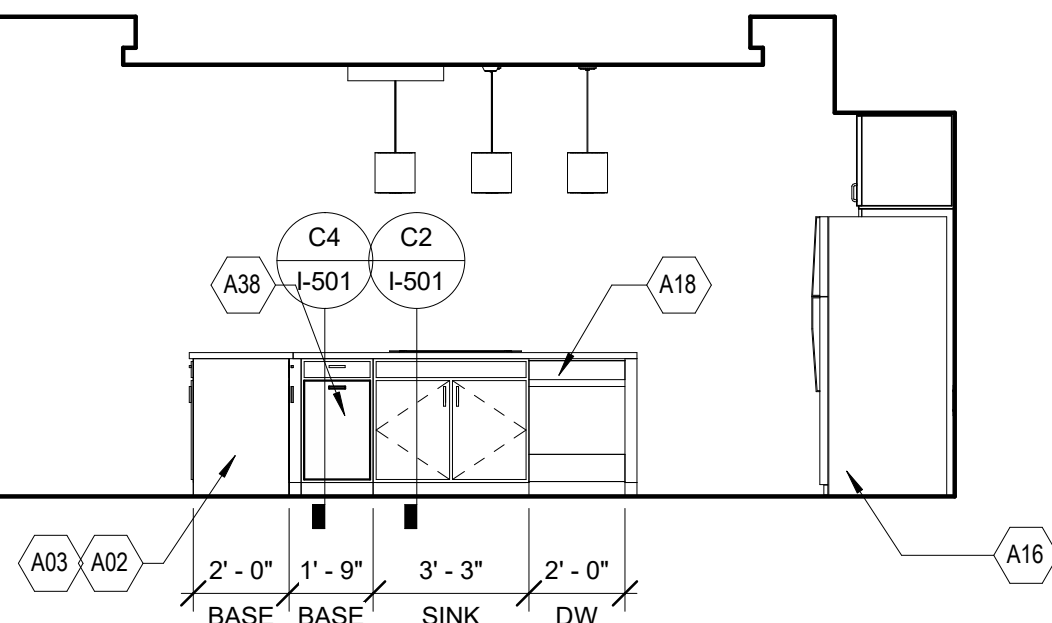
C2 CONF. ROOM EAST ELEVATION
1/4" = 1'-0"



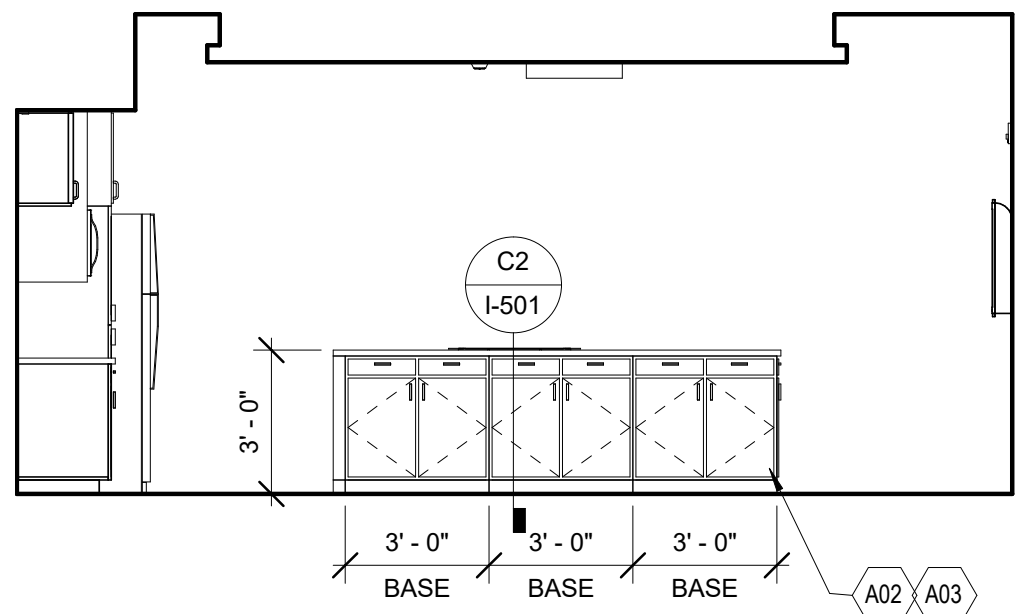
A1 DECON ENLARGED FLOOR PLAN



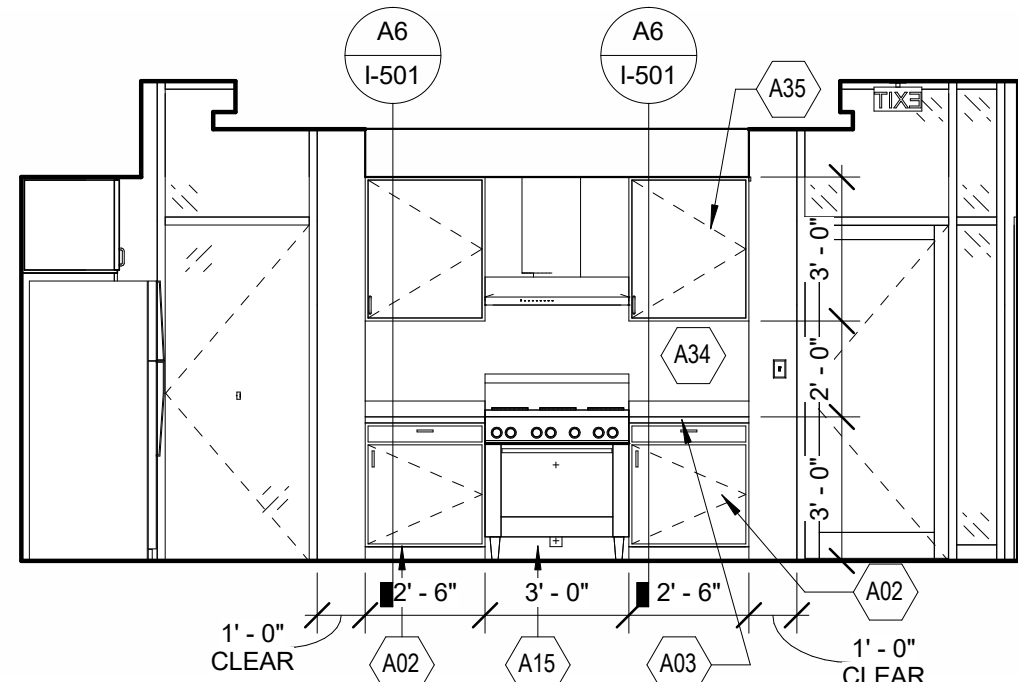
D3 KITCHEN NORTH ELEVATION
1/4" = 1'-0"



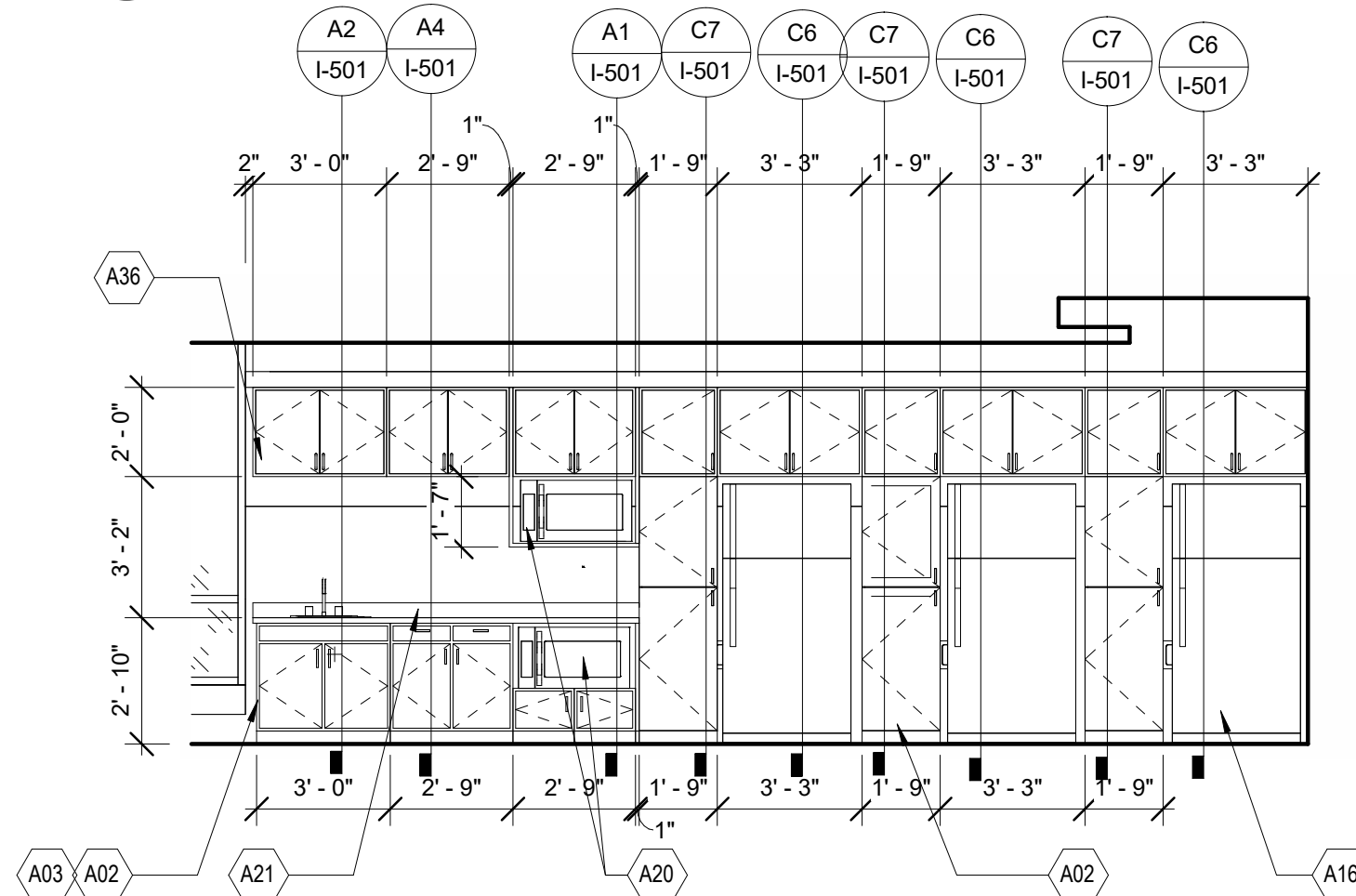
C3 KITCHEN ISLAND EAST ELEVATION
1/4" = 1'-0"



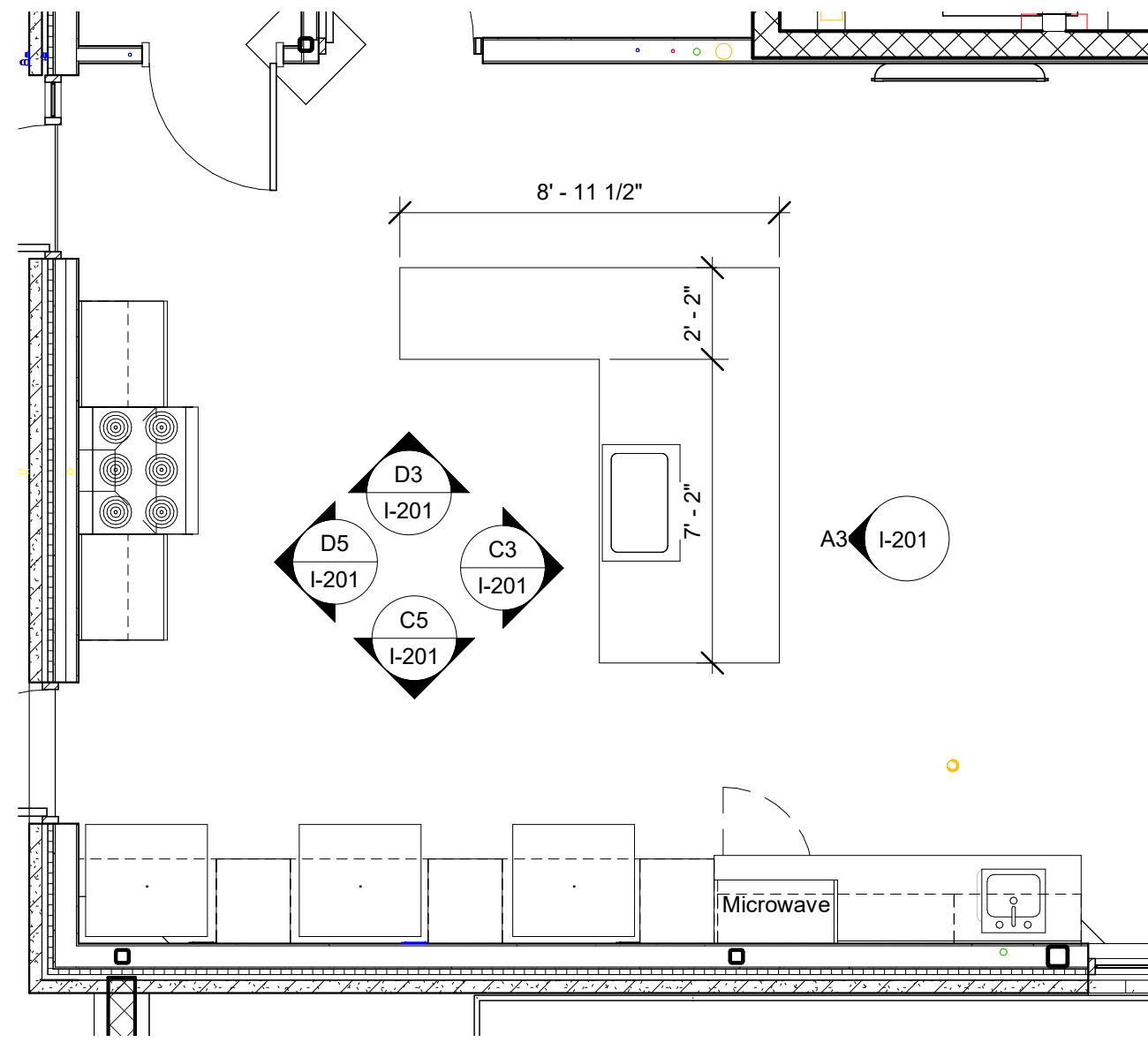
A3 KITCHEN ISLAND WEST ELEVATION
1/4" = 1'-0"



D5 KITCHEN WEST ELEVATION
1/4" = 1'-0"



C5 KITCHEN SOUTH ELEVATION
1/4" = 1'-0"



A5 KITCHEN ENLARGED PLAN
1/4" = 1'-0"

KEYNOTES

Note Number	Note Description
A02	PLYBOO BASE CABINETS
A03	QUARTZ COUNTERTOP
A05	GEAR DRYER RACK (HEAVY-DUTY HANGING ROD) W/WIRE SHELF ABOVE ROD
A08	5-TIER METAL PERSONAL LOCKERS
A11	HEAVY-DUTY RESIDENTIAL WASHER, OFCI
A12	HEAVY-DUTY RESIDENTIAL DRYER, OFCI
A14	COMMERCIAL WASHER/EXTRACTOR, BASIS OF DESIGN: HUEBSCH MODEL HYN040FNH, OFCI
A15	6-BURNER RANGE W/ OVEN & RESIDENTIAL HOOD W/ INTEGRAL FIRE SUPPRESSION
A16	RESIDENTIAL REFRIGERATOR, OFCI
A17	WALL-MOUNTED TV , OFCI. BLOCKING AND TV BRACKET, CFCI
A18	DISHWASHER-OFCI
A20	MICROWAVE - OFCI
A21	COFFEE MAKER - OFCI
A23	BOOT WASH, SEE PLUMBING
A24	HAND WASHING SINK FOR CONTAMINANT CONTROL W/ EYEWASH ATTACHMENT, SEE PLUMBING
A25	2-COMPARTMENT STAINLESS STEEL SINK W/ DRAINBOARDS
A34	STAINLESS STEEL BACKSPLASH
A35	36" HIGH PLYBOO WALL CABINETS
A36	24" HIGH PLYBOO WALL CABINETS
A37	BELOW COUNTER TRASH RECEPTACLE, RUBBERMAID BRUTE 20 GALLON - MODEL FG262000, W/ DOLLY - MODEL FG264043BLA, OFCI
A38	PULL-OUT DOUBLE RECYCLING CABINET
A39	FIRST AID KIT

TOILET ACCESSORIES...

Note Number	Note Description
TA01	TOILET PAPER DISPENSER - CFCI
TA02	SOAP DISPENSER - MOTION ACTIVATED AUTOMATIC - CFCI
TA03	FRAMED MIRROR - CFCI
TA04	FRAMELESS MIRROR - CFCI
TA05	PAPER TOWEL DISPENSER - MOTION ACTIVATED AUTOMATIC AND WASTE RECEPTACLE -CFCI
TA06	GRAB BAR- 42" CFCI
TA07	TOWEL HOOK-CFCI
TA08	FOLD DOWN CHANGING STATION-CFCI
TA09	SHOWER ROD AND CURTAIN-CFCI
TA11	GRAB BAR- 36" CFCI
TA12	GRAB BAR- 18" CFCI



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FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64082

REVISIONS:

#	Description	Date
1	ASB 01	11/21/2022



PAUL J. MICHELL - ARCHITECT
MO# A-2009021701

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PROJECT NO: 18225R21001
DATE: 11.21.2022
DRAWN BY: CLW
CHK'D BY: BJD

**INTERIOR
DESIGN
ELEVATIONS**

I-201

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SPECIFICATIONS

1. 4" Plain End inlet/outlet, 3" Plain End vents.
2. Max flow rate: 100 GPM
3. Capacities: Liquid: 250 gal. (33.4 cu. ft.); Oil: 144 gal.; Sand: 95 gal.
4. Unit weight with composite cover: 230 lbs.; with cast iron: 346 lbs.
5. Maximum operating temperature 140 °F continuous.
6. Highway rated covers: 16,000 lb. capacity.

NOTES

1. Snap-in Flow control (ships with unit).
2. Seamless medium density polyethylene tank.
3. Unit supplied with built-in adapter for up to 5" of adjustability. Additional riser(s) available for deeper burial depth.
4. Cover placement allows full access to tank for proper maintenance.
5. Narrow footprint allows clearance through doorways and down stairs.
6. Engineered inlet and outlet diffusers are removable to inspect/clean piping.
7. For on the-floor or buried applications.

DIFFUSION FLOW TECHNOLOGY

The inlet diffuser splits influent into three paths, creating laminar flow and utilizing the entire liquid volume of the tank for efficient oil separation. The calibrated openings greatly reduce influent turbulence. The influent enters the main chamber without disturbing the existing oil or sand layers. The bottom of the outlet diffuser allows only effluent that is free of oil to exit the tank.

ENGINEER SPECIFICATION GUIDE

Striem Oil Reserve™ oil/sand separator model OS-100 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene. Separator shall be furnished for above or below grade installation, with field adjustable riser system, snap-in flow control and (2) vent connections. Separator flow rate shall be 100 GPM. Separator oil capacity shall be 144 gallons. Sand capacity shall be 95 gallons. Covers shall provide water/gas-tight seal and have a maximum 16,000 lbs load capacity.

THIRD PARTY STRUCTURAL ANALYSIS

The OS-100 has been structurally analyzed in accordance with the requirements of IBC 2012 and ASCE/SEI 7 for direct burial. The maximum burial depth and backfill material are specified in our installation instructions. The structural design has been reviewed and sealed by a professional engineer registered in the state of California. A sealed structural analysis report is available upon request.

OPTIONS

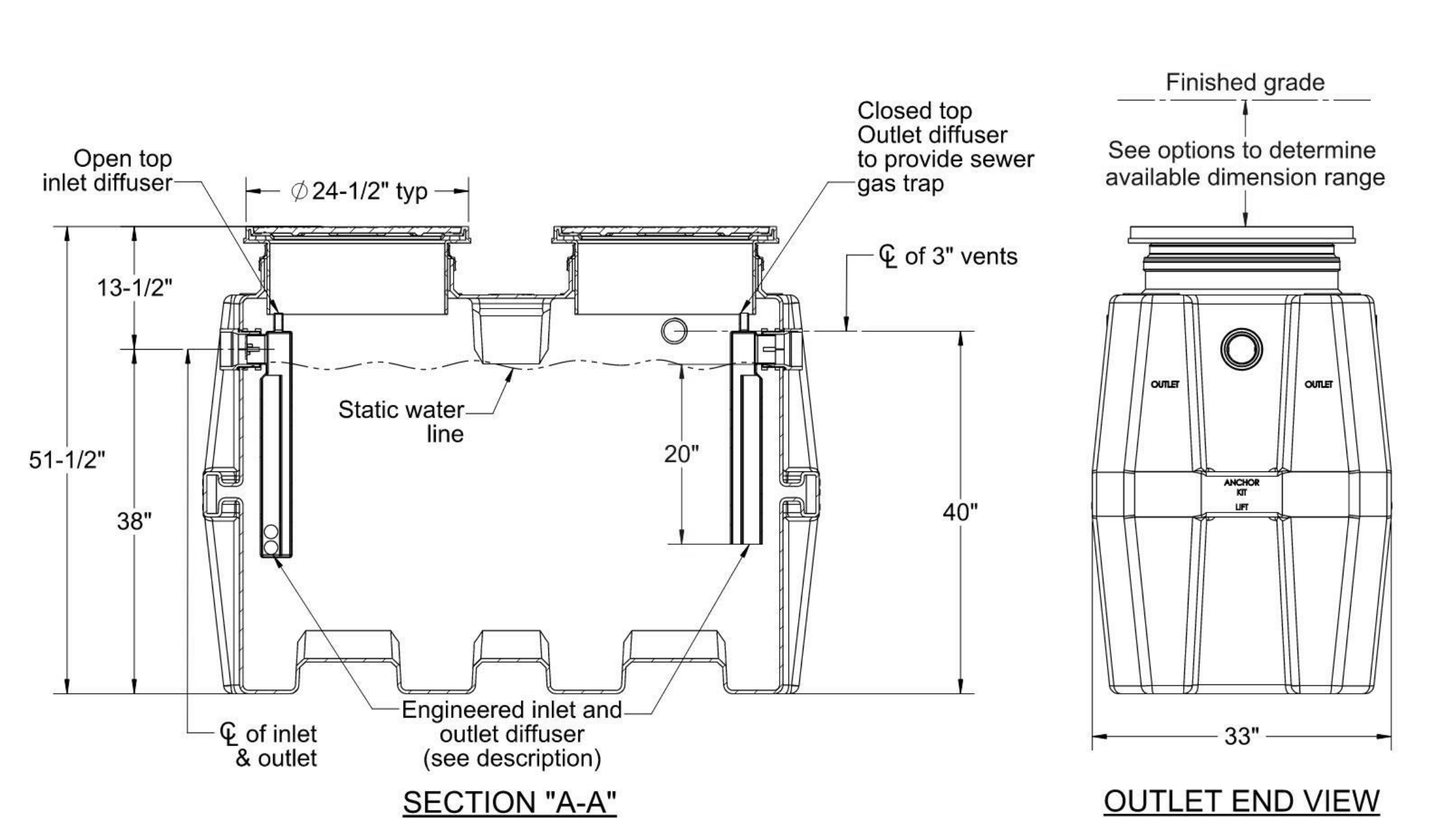
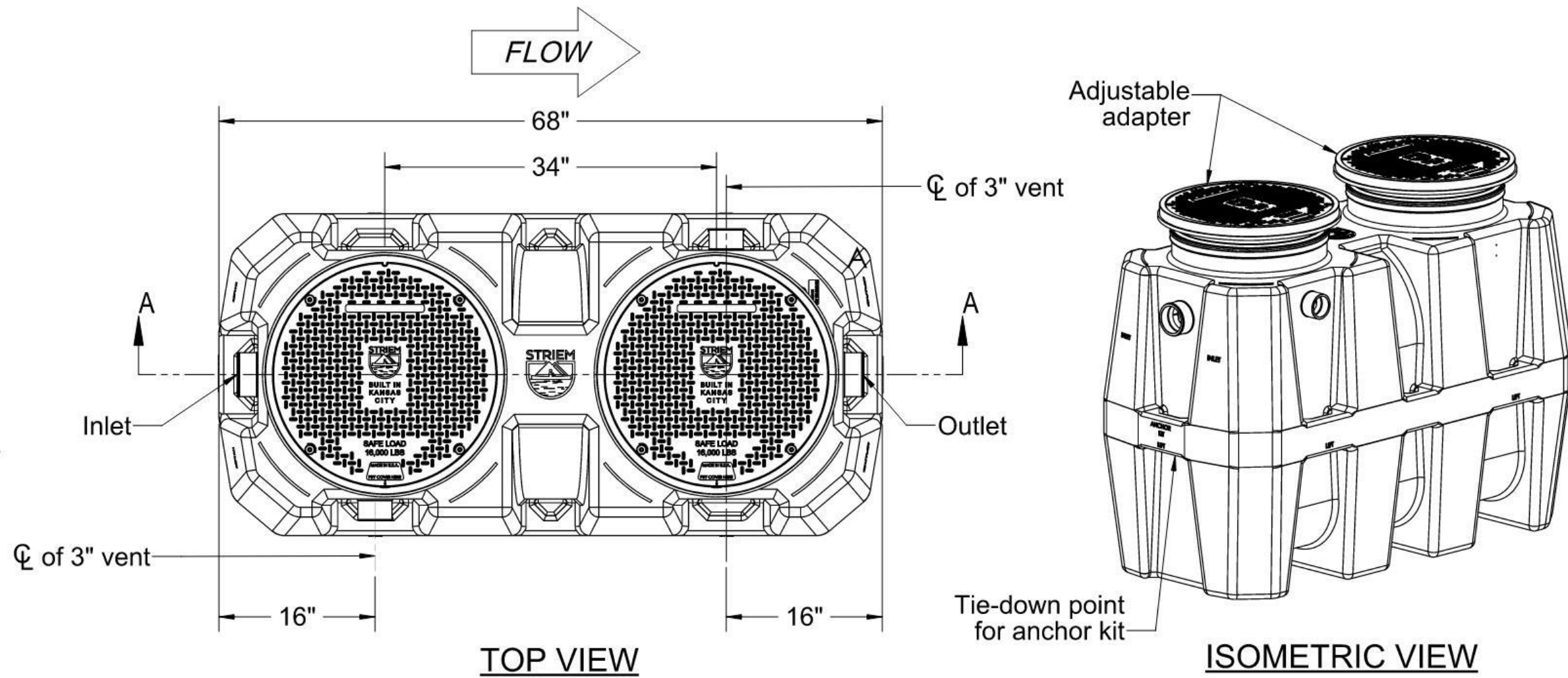
- ☐ 4M - 4" Male Thread Inlet / Outlet
- ☐ 6P - 6" Plain End SCH.40 Inlet / Outlet
- ☐ 6M - 6" Male Thread Inlet / Outlet
- ☐ C24-HP (2) - H20 Rated Pickable Cast Iron Cover
- ☐ CC24 (2) - Integral Membrane Clamping Collar Kit
- ☐ CS3 - Clean Sweep Coalescing Media (single)*
- ☐ CS6 - Clean Sweep Coalescing Media (double)*
- ☐ HDK-2 - High Water Anchor Kit

*Clean Sweep Coalescing Media not compatible with CPRK

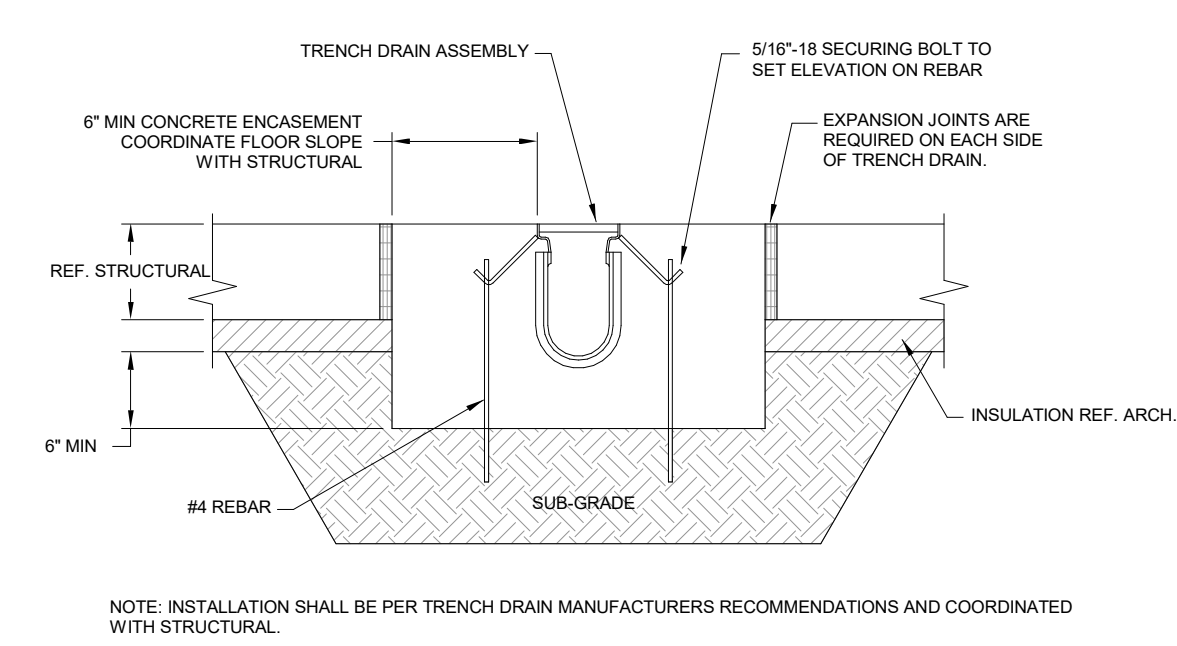
RISER OPTIONS

- ☐ SR24 (2) - >5"-24"
 - ☐ LR24 (2) - >24"-39"
 - ☐ SR24 (4) - >39"-43"
 - ☐ SR24 (2) + LR24 (2) - >43"-58"
 - ☐ LR24 (4) - >58"-72"
 - ☐ SR24 (2) + LR24 (4) - >72"-90"
- ☐ CPRK (2) : >11" - 90"
 - Corrugated Pipe Riser Kit.
 - 18" diameter corrugated pipe by others.
 - Used in substitute of SR/LR riser options
 - See CPRK specification for more detail.

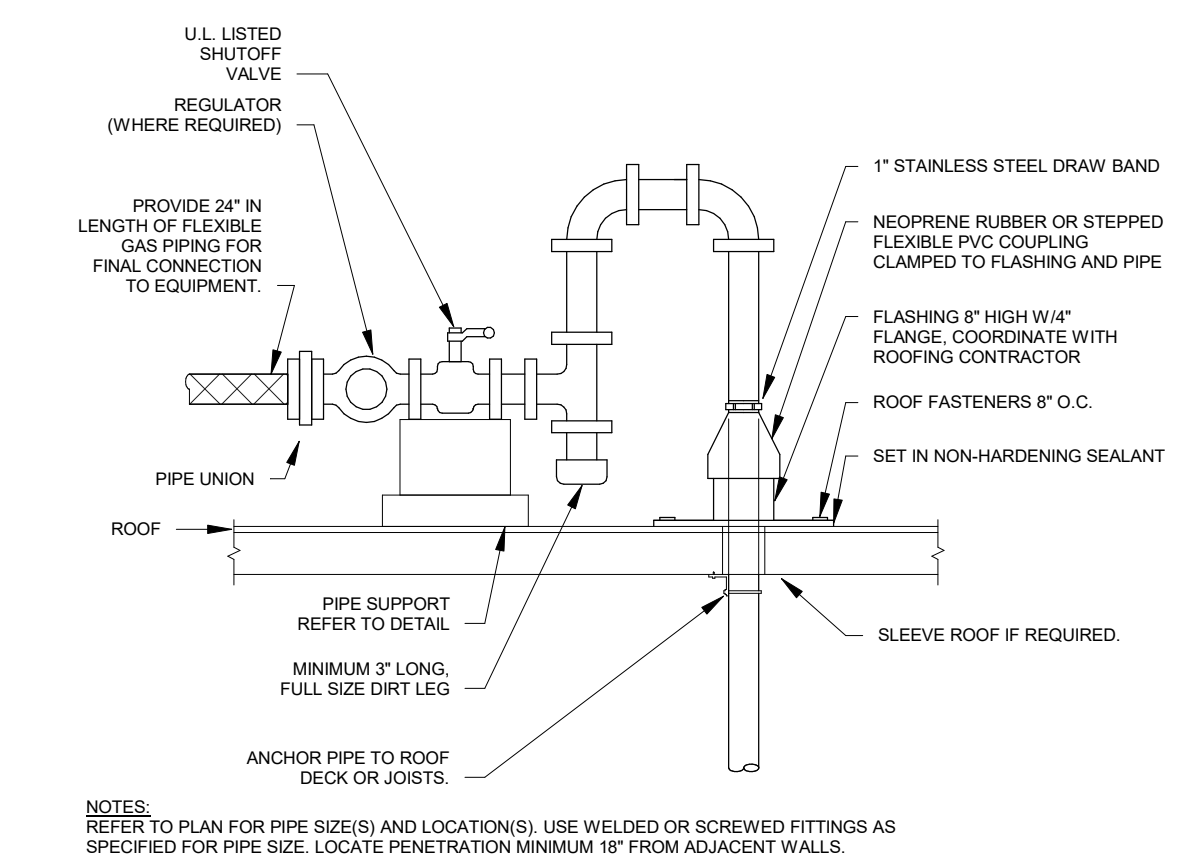
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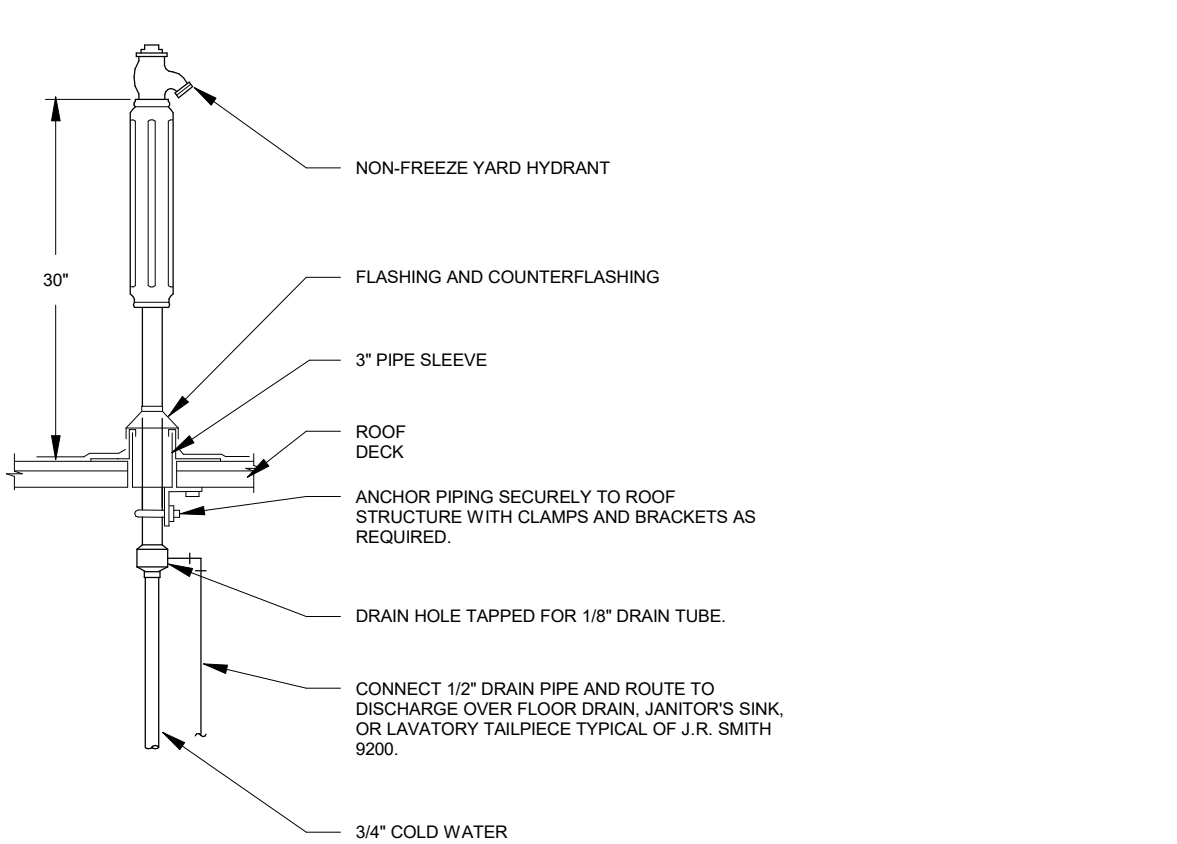
MODEL NUMBER: OS-100		SPECIFICATION SHEET	
DESCRIPTION: 100 GPM POLYETHYLENE OIL/SAND SEPARATOR		<div>Striem 3100 Brinkerhoff Kansas City, KS 66115 Tel: 913-222-1500 orders@striemco.com www.striemco.com</div> <div>Made in the U.S.A</div>	
DWG BY: MJ	DATE: 12/09/2020	REV: 0	ECO:



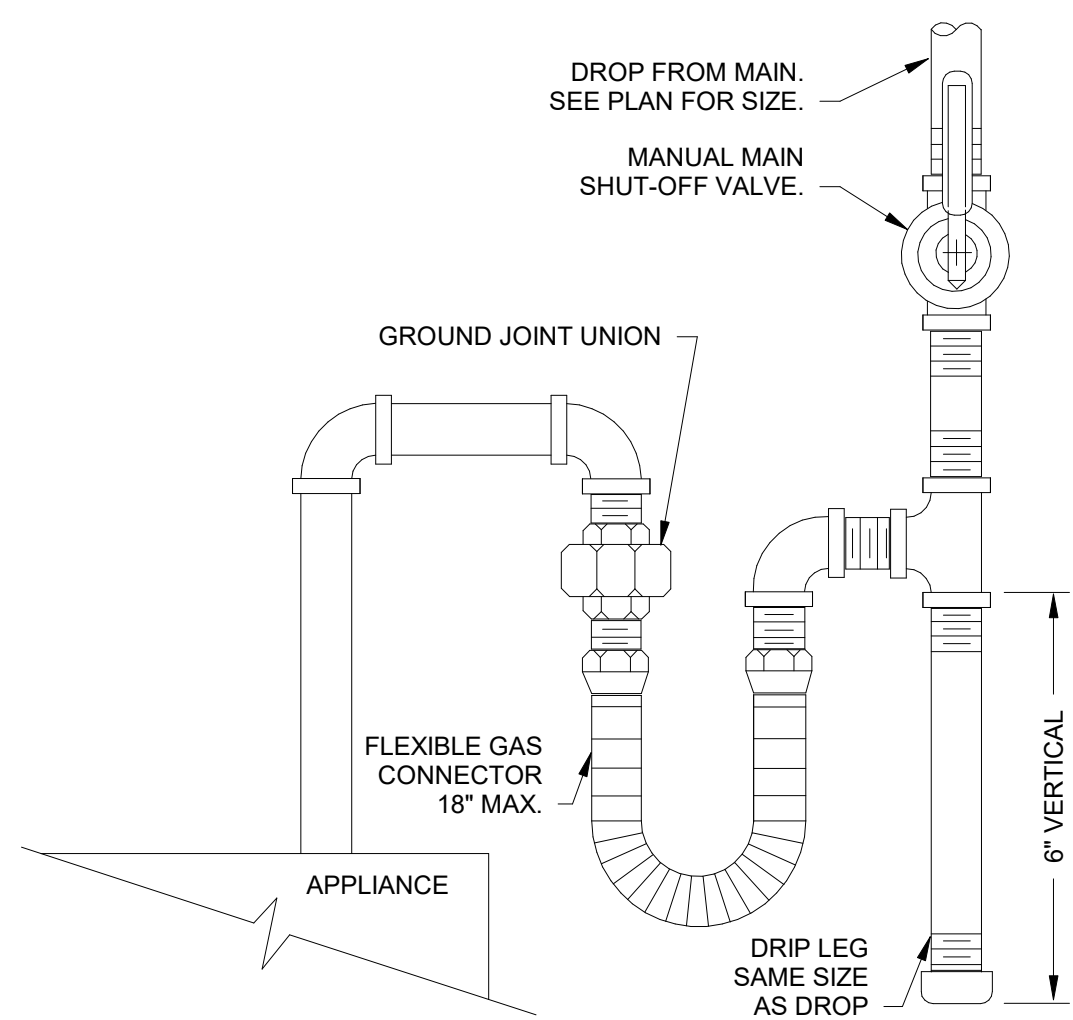
D7 TRENCH DRAIN DETAIL
NOT TO SCALE



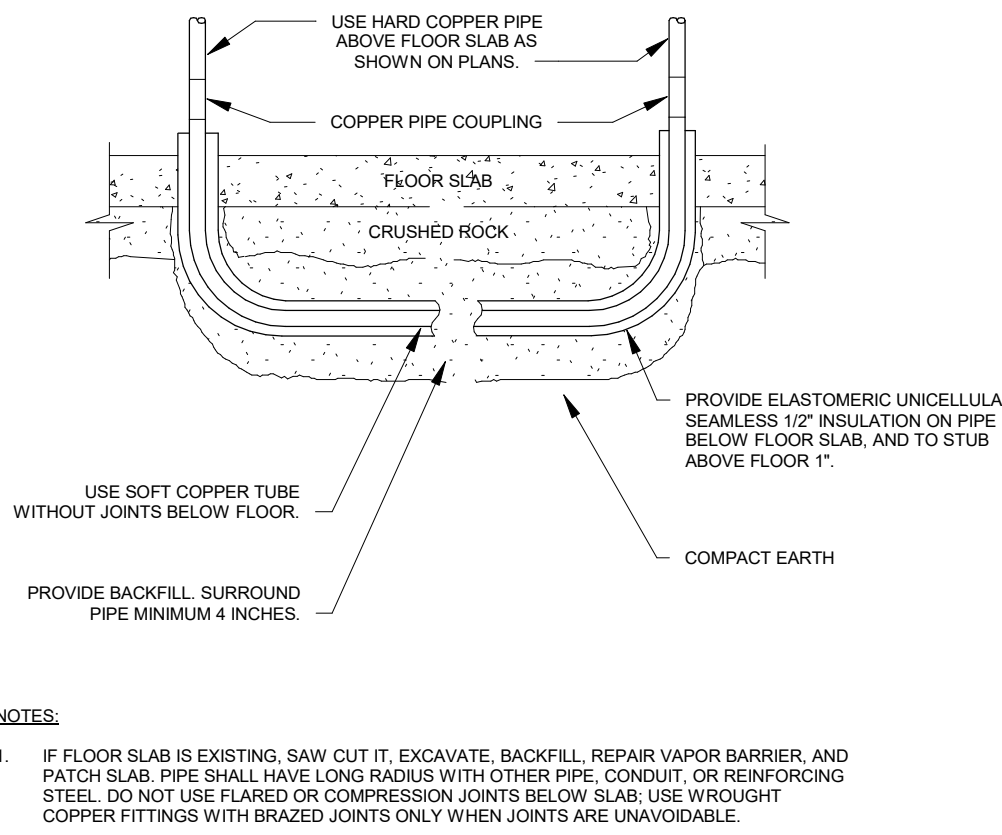
C7 GAS PIPE THRU ROOF
NOT TO SCALE



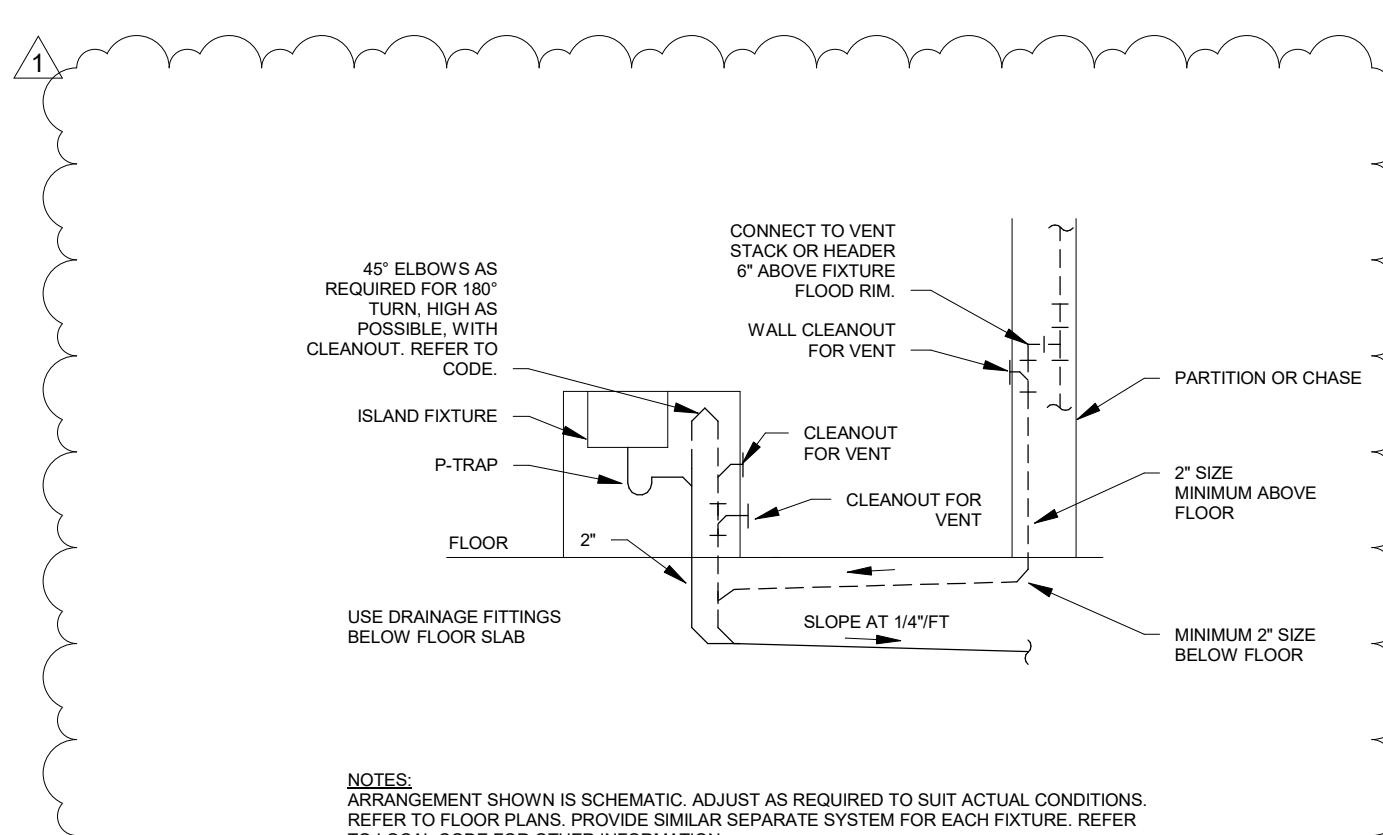
B7 ROOF HYDRANT
NOT TO SCALE



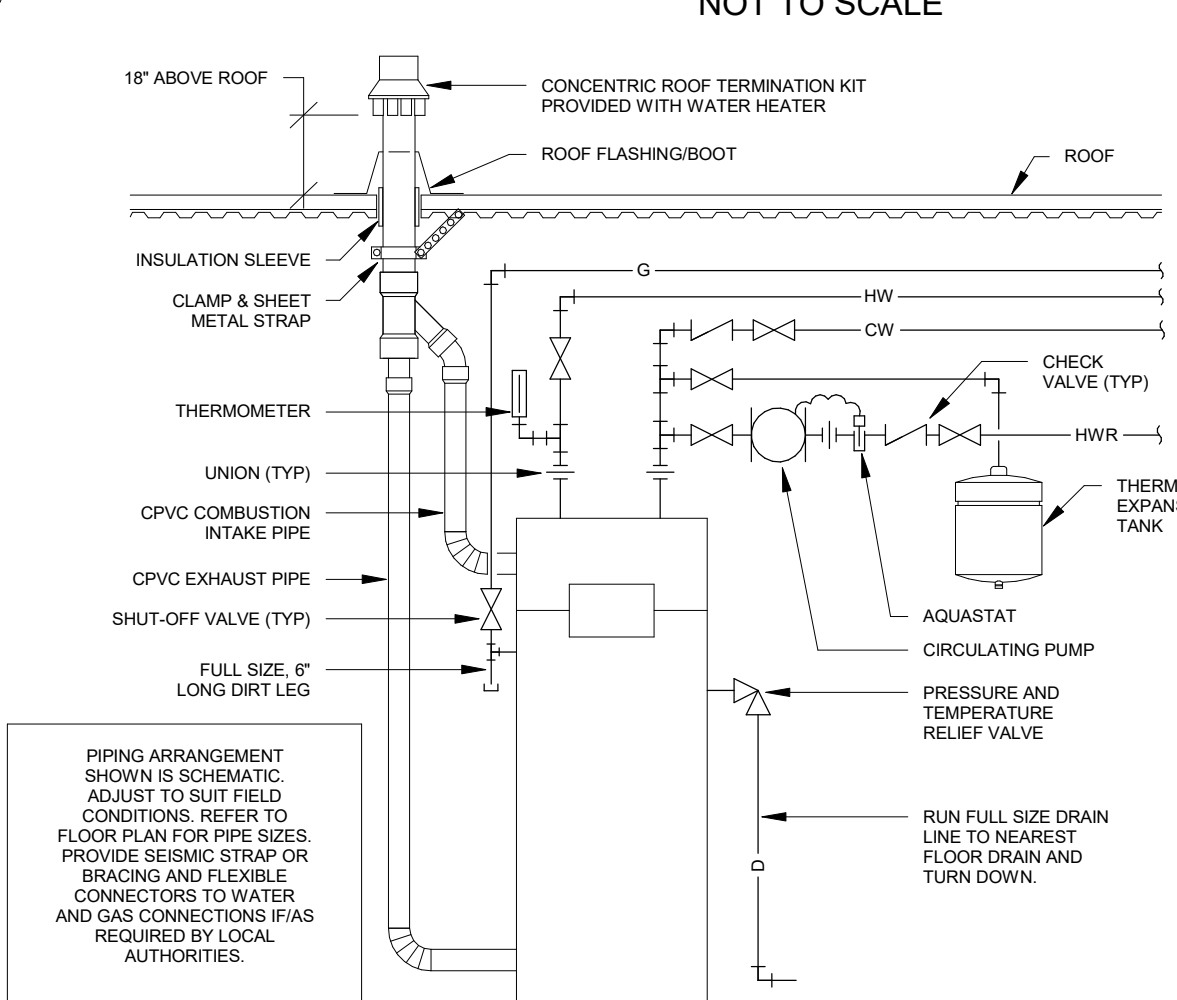
A1 GAS APPLIANCE CONNECTION DETAIL
NOT TO SCALE



A3 UNDER SLAB WATER PIPE
NOT TO SCALE



A5 ISLAND FIXTURE VENT
NOT TO SCALE



A7 GAS WATER HEATER AND HIGH EFF VENT ROOF
NOT TO SCALE

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FIRE STATION #5
CITY OF LEE'S SUMMIT
801 MISSOURI HIGHWAY 150
LEE'S SUMMIT, MISSOURI 64064

#	Description	Date
1	AS 01	11/16/2022



NEIL BARTLEY - ENGINEER
MO# PE-2007023868

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DATE: 10.20.2022
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CHK'D BY: NB

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