## GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE MINIMUM STANDARDS OF THE APPLICABLE CODES INDICATED IN THE BUILDING SUMMARY COLUMN AND ALL LOCAL CODES PRESENTLY IN EFFECT UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED.

2. ALL NEW CONSTRUCTION SHALL COMPLY W/ THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND CHAPTER 11 OF THE INTERNATIONAL BUILDING CODE (INCLUDES ICC A117.1 PER IBC)ACCESSIBILITY

3. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, AND ALL UTILITY CHARGES, AND ARRANGE FOR ALL REQUIRED

4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING BUILDING & SITE UTILITIES BETWEEN CIVIL & MEP DRAWINGS. THE CONTRACTOR SHALL ALSO CONTACT ALL APPLICABLE UTILITY COMPANIES & PROVIDE CONDUIT & OTHER FACILITIES AS REQUIRED.

5. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS & CONDITIONS ON THE JOB SITE PRIOR TO THE BIDDING OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.

IN CASES OF DISCREPANCY CONCERNING DIMENSIONS, QUANTITIES AND LOCATION, THE CONTRACTOR SHALL, IN WRITING, CALL TO THE ATTENTION OF THE ARCHITECT ANY DISCREPANCIES BETWEEN SPECIFICATIONS, PLANS, DETAILS OR SCHEDULES. THE ARCHITECT WILL THEN INFORM THE CONTRACTOR, IN WRITING, WHICH DOCUMENT TAKES PRECEDENCE. THERE SHALL BE NO ADJUSTMENT TO THE COST OR TIME OF THE WORK RESULTING FROM CLARIFICATION OF SUCH DISCREPANCIES.

6. DIMENSIONS ON DRAWINGS ARE SHOWN TO FINISHED FACE OF WALLS AND PARTITIONS OF EXISTING OR NEW CONSTRUCTION UNLESS OTHERWISE NOTED. CEILING HEIGHT DIMENSIONS AND ALL OTHER VERTICAL DIMENSIONS ARE TO THE FINISHED FLOOR SURFACE UNLESS OTHERWISE NOTED.

7. ALL MATERIALS SPECIFIED OR NOTED SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS, PRODUCT DATA, OR SAMPLES FOR CASEWORK, FINISHES, DOORS, FRAMES, HARDWARE, MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES, AND OTHER ITEMS REQUIRING ARCHITECT'S REVIEW FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. AND FOR ALL ITEMS WHICH ALLOWED CONTRACTOR OPTIONS. PRIOR TO FORWARDING TO THE ARCHITECT FOR REVIEW. THESE SUBMITTALS MUST BE REVIEWED BY THE CONTRACTOR FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL AFFIX HIS STAMP TO SUBMITTAL INDICATING HIS REVIEW. SUBMITTALS FORWARDED WITHOUT A STAMP WILL BE RETURNED. ALL SUBMITTALS MUST BE REVIEWED BY THE ARCHITECT PRIOR TO CONSTRUCTION.

9. CONTRACTOR SHALL GUARANTEE ALL WORK AGAINST FAULT OF ANY MATERIAL OR WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE YEAR AFTER COMPLETION OR ACCEPTANCE. FAULTY WORK SHALL BE REPLACED OR REPAIRED AS REQUIRED AT NO COST TO

10. CONTRACTOR SHALL COORDINATE WITH OWNER ALL ITEMS TO BE SALVAGED PRIOR TO SUBMISSION OF BIDS AND START OF CONSTRUCTION. OWNER SHALL HAVE SALVAGE RIGHTS TO RETAIN ALL REMOVED ITEMS.

11. ALL CHANGES PROPOSED DURING CONSTRUCTION WHICH RESULT IN A CHANGE TO THE CONTRACT TIME AND/OR SUM SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING AND APPROVED BY THE ARCHITECT AND OWNER BEFORE SUCH WORK SHALL COMMENCE.

12. CONTRACTOR SHALL COORDINATE CLEAR OPENINGS FOR ALL APPLIANCES PRIOR TO CONSTRUCTION OF CASEWORK.

13. CONTRACTOR SHALL FURNISH AND INSTALL CONCEALED FIRE—RETARDANT TREATED WOOD BLOCKING BEHIND ALL CABINETS, TOILET ACCESSORIES, PLUMBING FIXTURES, AND OTHER WALL MOUNTED ITEMS AS REQUIRED FOR ADEQUATE SUPPORT.

CONTRACTOR SHALL COORDINATE ALL LOCK AND LATCH SETS AND FINAL KEYING WITH OWNER. DOUBLE KEYED LOCKS ARE NOT PERMITTED ON ANY REQUIRED OR MARKED EXIT. MATCH EXISTING KEYING SYSTEM IF ONE IS EXISTING.

15. ALL DOOR HARDWARE ON EXIT DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY. SPECIAL KNOWLEDGE. OR EFFORT.

16. CONTRACTOR SHALL PREPARE ALL NEW AND EXISTING SURFACES SCHEDULED TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR THE SUBSTRATE AND FINISH BEING APPLIED.

17. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING CONSTRUCTION INDICATED TO REMAIN AND SHALL REPAIR AND/OR REPLACE ALL AREAS AND/OR MATERIALS DAMAGED DURING CONSTRUCTION AT A MINIMUM TO THE CONDITION WHICH EXISTED PRIOR TO CONSTRUCTION.

18. CONTRACTOR SHALL COORDINATE FINAL QUANTITY AND LOCATIONS OF FIRE FXTINGUISHERS WITH THE FIRE DEPARTMENT AND /OR BUILDING DEPARTMENT, SEE SYMBOLS LEGEND FOR TYPE OF EXTINGUISHER.

19. ALL CONSTRUCTION MATERIALS EXPOSED WITHIN PLENUMS SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND MAXIMUM SMOKE DEVELOPED RATING OF 50.

20. ALL PIPING, LOW VOLTAGE WIRE AND CABLE, OPTICAL FIBER, PNEUMATIC TUBING, AND ALL DUCT AND DUCT COVERINGS, LININGS AND CONNECTORS INSTALLED WITHIN PLENUMS MUST BE RATED FOR PLENUM USE.

21. TENANT SHALL BE RESPONSIBLE FOR COORDINATION AND INSTALLATION OF VOICE AND DATA CABLING AND EQUIPMENT.

22. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE AUTOMATIC SPRINKLER SYSTEM. THE DESIGN SHALL BE PER NFPA REQUIREMENTS.

23. ALL NEW GLASS AND GLAZING LOCATED IN HAZARDOUS LOCATIONS AS DEFINED IN IBC SECTION 2406.3 SHALL MEET THE REQUIREMENTS FOR SAFETY GLAZING AS DEFINED IN IBC SECTION 2406.

24. IF THE CONTRACTOR FAILS TO SUBMIT A MATERIAL FOR APPROVAL, THE MATERIAL MAY BE REQUIRED TO BE REMOVED BY THE CONTRACTOR EITHER BY DIRECTION OF THE OWNER OR

25. NOT USED

26. THE CONTRACTOR IS TO PROVIDE AS BUILT DRAWINGS IN HARD COPY AND AN ELECTRONIC AUTOCAD FILE TO THE OWNER AT THE CONCLUSION OF THE PROJECT.

27. INSTALL ELASTOMERIC JOINT SEALER AROUND ALL PIPES, DUCTWORK, AND STRUCTURE PASSING THRU INTERIOR NON-RATED CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS. FOR FIRE RATED INTERIOR CONCRETE AND MASONRY WALLS, GYPSUM BOARD PARTITIONS, AND CONCRETE FLOOR/ROOF SLABS SEAL ALL PIPES, DUCTWORK, AND STRUCTURE. INSTALL FIRESTOP MATERIALS IN ALL GAPS PRIOR TO SEALANT APPLICATION. INSTALL SEALER ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

## DRAWING SYMBOLS LEGEND

EXISTING CONSTRUCTION TO REMAIN. EXISTING CONSTRUCTION TO BE REMOVED.

NEW CONSTRUCTION.

TENANT DEMISING LINE - WALL TO GO FULL HEIGHT TO DECK

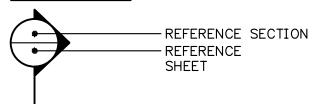
WALL TYPE DESIGNATION -REFERENCE FLOOR PLAN(S) FOR LOCATIONS. REFERENCE DRAWING A1.00 FOR CONSTRUCTION REQUIREMENTS.

ROOM NAME AND NUMBER -##

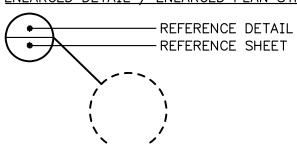
REFERENCE FLOOR PLAN(S) FOR LOCATIONS.

DOOR AND FRAME DESIGNATION -REFERENCE FLOOR PLAN(S) FOR LOCATIONS.

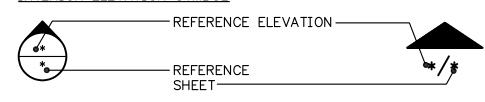
## SECTION SYMBOL



### ENLARGED DETAIL / ENLARGED PLAN SYMBOL



### INTERIOR ELEVATION SYMBOL



FLOOR FINISH DESIGNATION -REFERENCE FINISH PLAN(S) FOR LOCATIONS. REFERENCE FINISH SCHEDULE FOR DESCRIPTIONS.

WINDOW DESIGNATION TAG

CONSTRUCTION NOTE

REVISION NOTE

XX

WALL MOUNTED FIRE EXTINGUISHER BY LARSEN'S MANUFACTURING COMPANY, WWW.LARSENSMFG.COM, MODEL MP10 W/B2 MOUNTING BRACKET, REFERENCE FLOOR PLAN(S) FOR LOCATIONS. MOUNT SO CENTERLINE OF EXTINGUISHER IS 46"

SEMI-RECESSED FIRE EXTINGUISHER BY LARSEN'S MANUFACTURING COMPANY, WWW.LARSENSMFG.COM, ARCHITECTURAL SERIES AL2409-6R, W/MP10 FIRE EXTINGUISHER, CLEAR ALUMINUM SOLID DOOR, AND "FIRE" HANDLE W/ STANDARD FINSH. MOUNT SO CENTERLINE OF CABINET HANDLE IS 46" A.F.F.

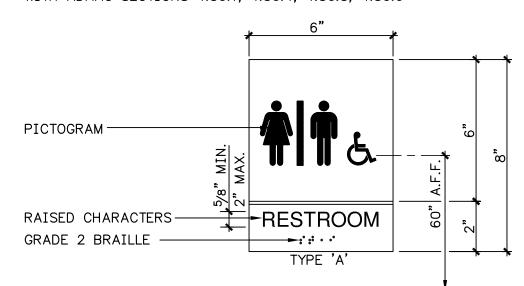
## ACCESSIBLE SIGNAGE REQUIREMENTS

## PERMANENT ROOMS AND SPACES

SIGNAGE COMPLYING WITH THE SIGN TYPES AND REQUIREMENTS BELOW SHALL BE PROVIDED AT THE FOLLOWING INTERIOR LOCATIONS:

LOCATION SIGN TYPE UNISEX 103, 104 TYPE 'A'

SIGNS WHICH DESIGNATE PERMANENT ROOMS AND SPACES SHALL COMPLY WITH ADAAG SECTIONS 4.30.1, 4.30.4, 4.30.5, 4.30.6



## ADA STATEMENT

MOMENTUM A+D HAS USED OUR REASONABLE PROFESSIONAL EFFORTS AND JUDGEMENT TO INTERPRET APPLICABLE 2009 ADA REQUIREMENTS, AND TO DESIGN THE IMPROVEMENTS PROPOSED UNDER THIS PERMIT APPLICATION SUBMITTAL FOR THIS PROJECT TO COMPLY WITH ADA AND OTHER FEDERAL, STATE, AND LOCAL RULES, CODES, ORDINANCES, AND REGULATIONS AS THEY APPLY TO THE PROJECT. MOMENTUM A+D, HOWEVER, CANNOT AND DOES NOT WARRANT OR GUARANTEE THAT THE IMPROVEMENTS WILL COMPLY WITH ALL INTERPRETATIONS OF ADA REQUIREMENTS AND/OR REQUIREMENTS OF OTHER FEDERAL, STATE, AND LOCAL LAWS, RULES, ORDINANCES, AND REGULATIONS AS THEY APPLY TO THE PROJECT.

## **BUILDING SUMMARY**

GROUP FITNESS TRAINING

F45 FITNESS LEES SUMMIT TENANT IMPROVEMENTS
1138 NE DOUGLAS RD, LEE'S SUMMIT, MO
GROUP FITNESS (A-3 ASSEMBLY / B - BUSINESS)

FOR PHYSICALLY HANDICAPPED PEOPLE 2009 EDITION

EXITS REQUIRED/ PROVIDED: 1 EXIT REQUIRED / 2 PROVIDED; THIRD EXIT

AT REAR IS SEPARATED FROM PUBLIC

(B) 200 FT. MAX. (TABLE 1017.2)

PROFESSIONAL SERVICES DISCLAIMER

THIS DISCLAIMER SERVES NOTICE OF ACCEPTANCE OF RESPONSIBILITY AND DISCLAIMER

OF RESPONSIBILITY AS TO THE CONTRACT DOCUMENTS PREPARED FOR PROJECT

NUMBER 22-020, F45 LEE'S SUMMIT T.I. BY MOMENTUM ARCHITECTURE+DESIGN.

THE UNDERSIGNED ARCHITECT, AND MOMENTUM A+D., ARE RESPONSIBLE FOR

PREPARATION OF ONLY THE NOTED CONSTRUCTION DRAWINGS BELOW:

LEGENDS + GENERAL NOTES

TOTAL DESIGN OCCUPANT LOAD = 49 PPL

DATE REVISED

12.30.22

### GENERAL BUILDING INFORMATION

TENANT NAME:	F45 FITNESS LEES SUMMIT TENANT IMPROVEMENTS
ADDRESS:	1138 NE DOUGLAS RD, LEE'S SUMMIT, MO
PROPOSED USE:	GROUP FITNESS (A-3 ASSEMBLY / B - BUSINESS)

### APPLICABLE CODES

INTERNATIONAL BUILDING CODE (IBC)	2018 EDITION
INTERNATIONAL MECHANICAL CODE (IMC)	2018 EDITION
INTERNATIONAL PLUMBING CODE (IPC)	2018 EDITION
NATIONAL ELECTRICAL CODE (NEC)	2017 EDITION
INTERNATIONAL FUEL GAS CODE (IFGC)	2018 EDITION
INTERNATIONAL FIRE CODE (IFC)	2018 EDITION
ICC /ANST A117.1 PROVIDING ACCESSIBILITY AND USABILITY	

ICC/ANSI ATT/.T PROVIDING ACCESSIBILITY AND USABILI

<b>BUILDING DATA</b>	
CONSTRUCTION TYPE:	5-B, ONE STORY
AUTOMATIC SPRINKLER:	NON = SPRINKLERED
OCCUPANCY CLASS:	BUSINESS (B)
	ASSEMBLY (A-3, RECREATION)
TENANT AREA:	3.100 S.F.

DESIGN OCCUPANT LOAD:	MULTIPLE FUNCTION OCCUPANT LOAD (2018 IBC 1004
(B, OFFICE+ UTILITY)	150 S.F./150 S.F. GROSS PER OCCUPANT = 1
(A-3, ENTRY + LOBBY)	250 S.F./50 S.F. GROSS PER OCCUPANT = 5
(A-3, EXERCISE ROOM)	2,150 S.F./ $50$ S.F. GROSS PER OCCUPANT = $43$
UNOCCUPIED ARE	AS: CIRCULATION, TOILETS, UTILITY ROOM, 550 SF

MAX. TRAVEL DIST: NON - SPRINKLERED (A) 200 FT. MAX. (TABLE 1017.2)

# PROJECT TEAM

38 Sui

STRUCTURAL

ARCHITECT

Date:

Issued For:

**REVISIONS** 

No. Date

12/30/22

Description

JASON B HANSEN

1-2021000212

MOMENTUM

ARCHITECTURE+DESIGN

CITY COMMENTS

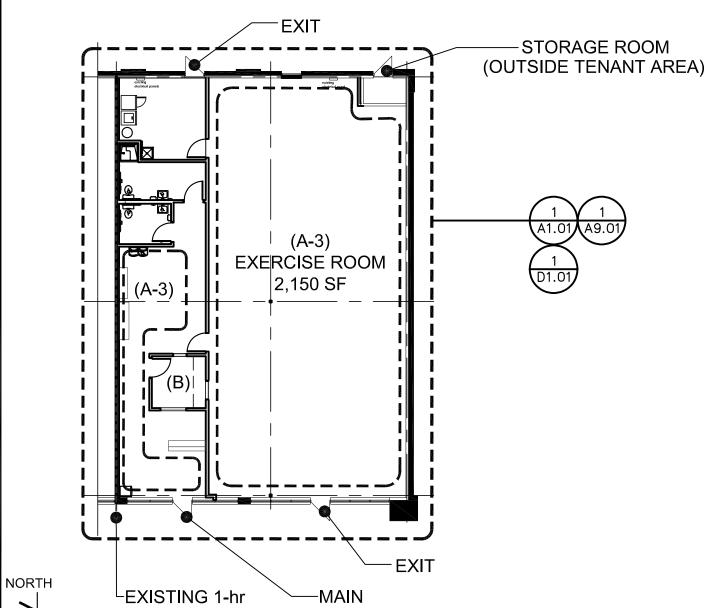
MECHANICAL 5BY5 ENGINEERS

ELECTRICAL **5BY5 ENGINEERS** 

FIRE PROTECTION

CONTRACTOR HAWTHORN PROJECTS

ENLARGED KEY PLAN LOCATION MAP



**ENTRY/EXIT** 

RATED WALL

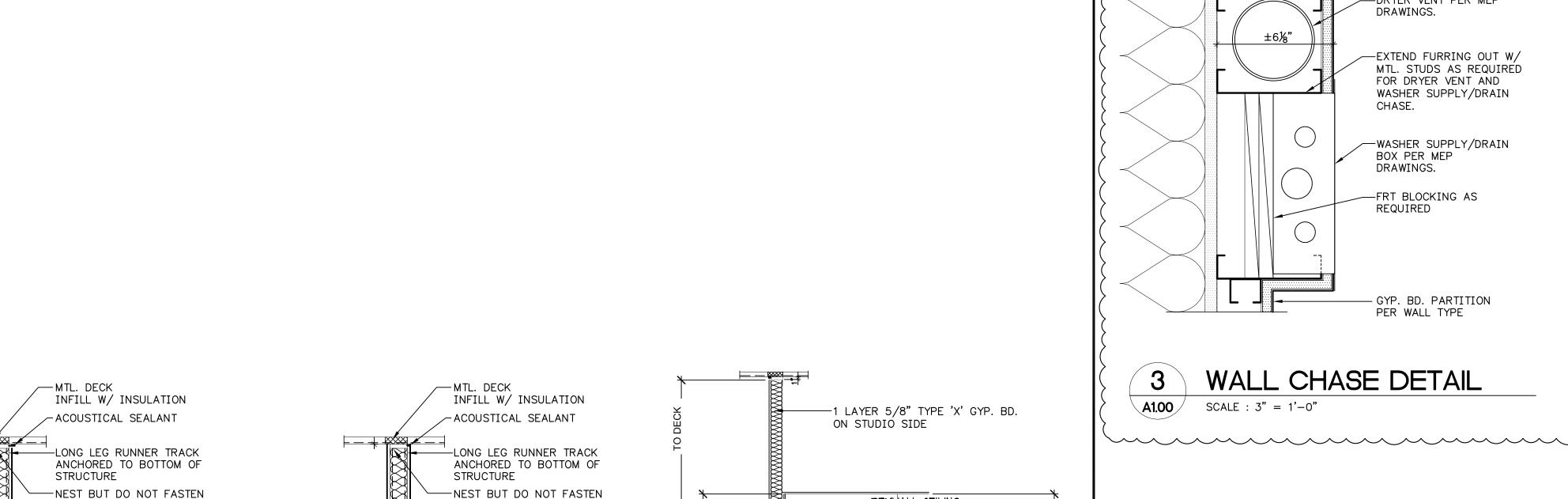
NE SYCAMORE ST

**TENANT** 

LOCATION

A1.00 WALL TYPES + DETAILS 12.30.22 DEMO PLAN + DEMO REFLECTED CEILING PLAN 12.30.22 CONSTRUCTION PLAN + SPECIFICATIONS 12.30.22 A2.01 **ENLARGED TOILET PLANS + ELEVATIONS** 12.30.22 A4.01 INTERIOR ELEVATIONS 12.30.22 DOOR SCHEDULE + FINISH SCHEDULE + PLAN 12.30.22 REFLECTED CEILING PLAN 12.30.22 SPECIFICATIONS 12.30.22 THE UNDERSIGNED ARCHITECT AND MOMENTUM A+D DISCLAIM RESPONSIBILITY FOR ALL OTHER CONSTRUCTION DOCUMENTS, AND ANY OTHER SPECIFICATIONS, REPORTS, ESTIMATES, SHOP DRAWINGS, ETC. RELATING TO OR INTENDED TO BE USED FOR ANY PART OF THE ARCHITECTURAL OR ENGINEERING PROJECT, INCLUDING ANY GEOTECHNICAL ENGINEERING SERVICES, OR ENVIRONMENTAL REPORTS. THIS NOTICE IS EXECUTED BY THE UNDERSIGNED AND AUTHENTICATED BY THE ARCHITECTURAL SEAL OF THE PERSON PREPARING THIS NOTICE.

JASON B HANSEN NUMBER A-2021000212 3.17.23



LOWER RUNNER TRACK IN LONG

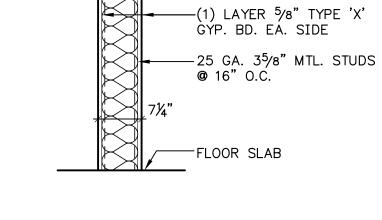
LEG TRACK. MAINTAIN 1" CLEAR

BET. UPPER & LOWER TRACK)

-TREATED 2x8 BLOCKING.

OF DRYWALL

PROVIDE TREATED PLYWOOD BEHIND BRACKET IN-LIEU



- CEILING-REFERENCE

FINISH SCHEDULE FOR

TYPE AND LOCATION

- (a) WALL TO HAVE 6" SOUND INSUL.
- **b** 5/8" WATER RESISTANT GYP. BD. ON "WET ROOM WALLS"
- **c** WALL TO HAVE BOTH INSUL. AND WATER RESISTANT GYP. BD.

WALL TYPE

SCALE : 3/4" = 1'-0"

LONG LEG RUNNER TRACK
ANCHORED TO BOTTOM OF

-NEST BUT DO NOT FASTEN

LOWER RUNNER TRACK IN LONG LEG TRACK. MAINTAIN 1" CLEAR

BET. UPPER & LOWER TRACK) -PROVIDE BRACING ON CEILING

SIDE OR PROVIDE STIFFENER

CHANNELS THROUGH STUDS

WHEN REQUIRED BY HEIGHT

—(1) LAYER <sup>5</sup>/8" TYPE 'X'

GÝP. BD. EA. SIDE

25 GA. 3<sup>5</sup>/<sub>8</sub>" MTL. STUDS @ 16" O.C.

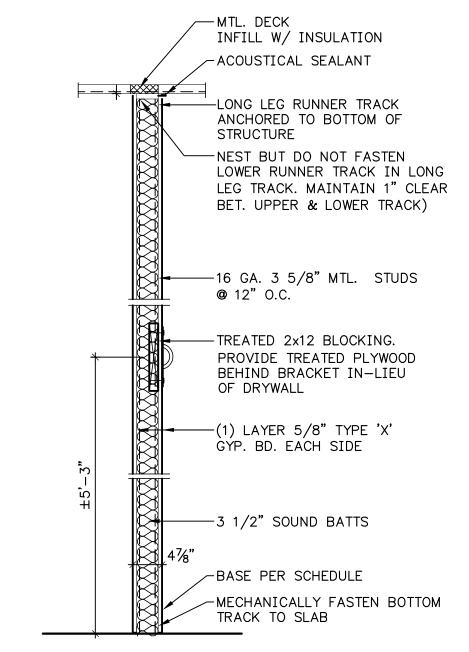
FLOOR SLAB

WALL TO HAVE BOTH INSUL. & MOLD & WATER RESISTANT GYP. BD. ON "WET ROOM WALLS"

 $\langle 4a \rangle$  WALL TO HAVE 3 1/2" BATT INSUL.

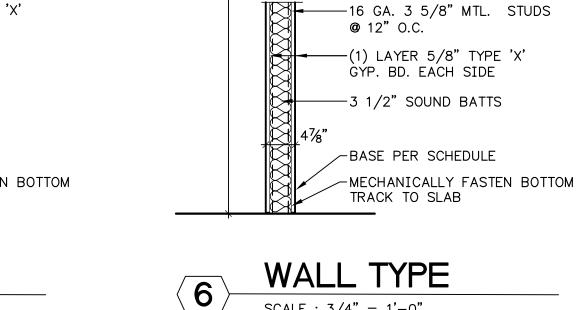
5/8" MOLD & WATER RESISTANT GYP. BD. ON "WET ROOM WALLS"

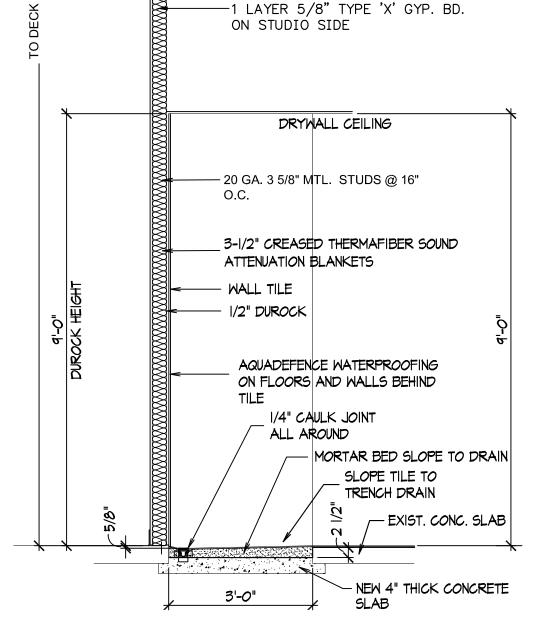
STRUCTURE

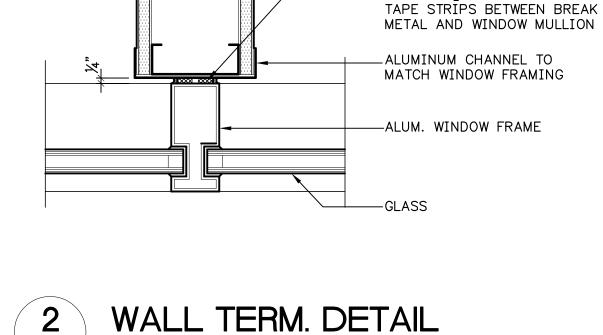


WALL TYPE

SCALE : 3/4" = 1'-0"







SCALE : 3" = 1'-0"

A1.00

DRYER VENT NOR WASHER SUPPLY/DRAIN TO PENETRATE

-DRYER VENT PER MEP

—EXTEND FURRING OUT W/ MTL. STUDS AS REQUIRED FOR DRYER VENT AND WASHER SUPPLY/DRAIN

EXISTING RATED WALL

DRAWINGS.

CHASE.

BOX PER MEP DRAWINGS.

REQUIRED

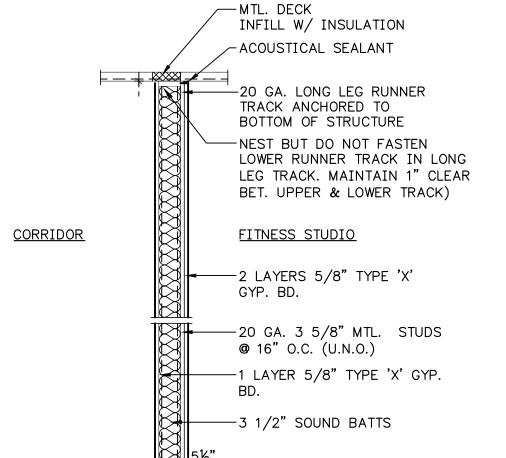
FRT BLOCKING AS

- GYP. BD. PARTITION PER WALL TYPE

> - GYP. BD. PARTITION PER WALL TYPE

-INSTALL ½"x1" CONT. FOAM





-BASE PER SCHEDULE

CHANNEL TO SLAB

-MECHANICALLY FASTEN BOTTOM

SCALE : 3/4" = 1'-0"

- FLOOR SLAB 、16 GA. 3 € MTL. STUDS AND TRACK @ a 2 12" O.C. AT WALL ANCHORS b 5/8" MOLD & WATER RESISTANT GYP.
- BD. ON "WET ROOM WALLS" C WALL HT. AT 6" ABOVE FIN CLG. & MOLD & WATER RESISTANT GYP. BD. ON "WET ROOM WALLS"

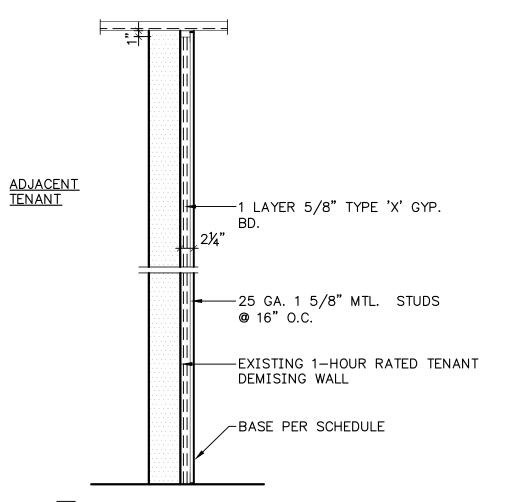
—(1) LAYER <sup>5</sup>/8" TYPE 'X'

@ 16" O.C. (U.N.O.)

EXTERIOR WALL

— 20 GA. 3 5/8" MTL. STUDS

ĠÝP. BD.



- WALL TO HAVE 3 1/2" SOUND BATT INSUL.
- 5/8" MOLD & WATER RESISTANT GYP. BD. ON "WET ROOM WALLS"
- WALL TO HAVE BOTH INSUL. & MOLD & WATER RESISTANT GYP. BD. ON "WET ROOM WALLS"

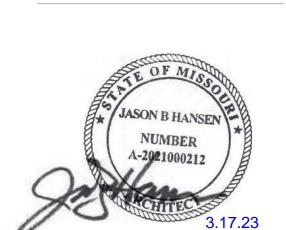
WALL TYPE SCALE : 3/4" = 1'-0"

32" CLEAR MINIMUM | PUSH SIDE PULL SIDE 1'-6" MINIMUM

TYP. DOOR LOCATION

Date: 12/30/22 Issued For: PERMIT

**REVISIONS** No. Date Description 1 3.17.23 CITY COMMENTS



PROJECT TEAM

ARCHITECT MOMENTUM ARCHITECTURE+DESIGN

STRUCTURAL MECHANICAL **5BY5 ENGINEERS** 

ELECTRICAL **5BY5 ENGINEERS** 

FIRE PROTECTION

CONTRACTOR HAWTHORN PROJECTS

MO mer + 904

WALL TYPE SCALE : 3/4" = 1'-0"

WALL TYPE SCALE : 3/4" = 1'-0"

WALL TYPE SCALE : 3/4" = 1'-0"

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

ARCHITECT MOMENTUM ARCHITECTURE+DESIGN STRUCTURAL

MECHANICAL 5BY5 ENGINEERS

ELECTRICAL 5BY5 ENGINEERS

FIRE PROTECTION

CONTRACTOR HAWTHORN PROJECTS

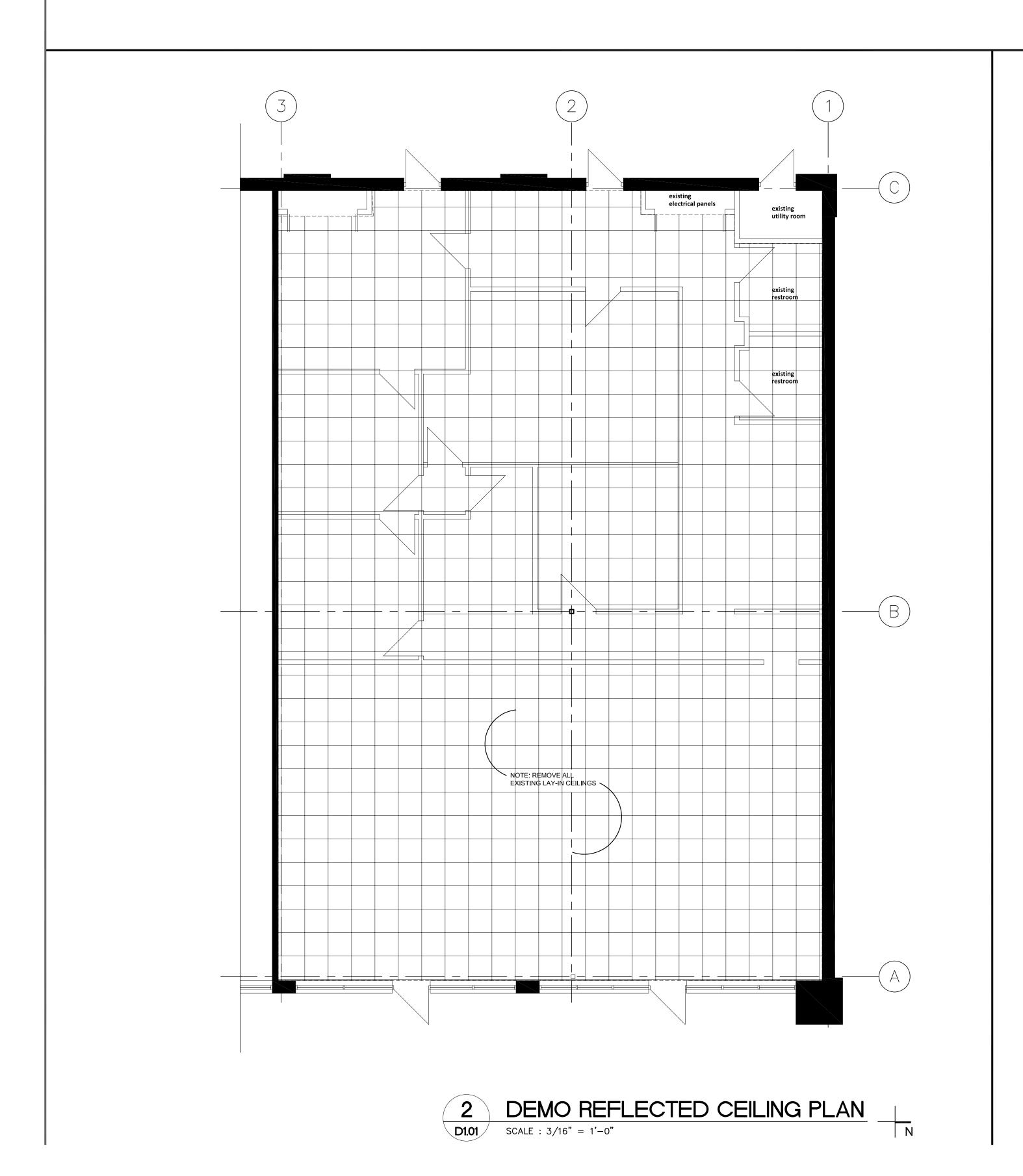
Z I N E + D E S I G N

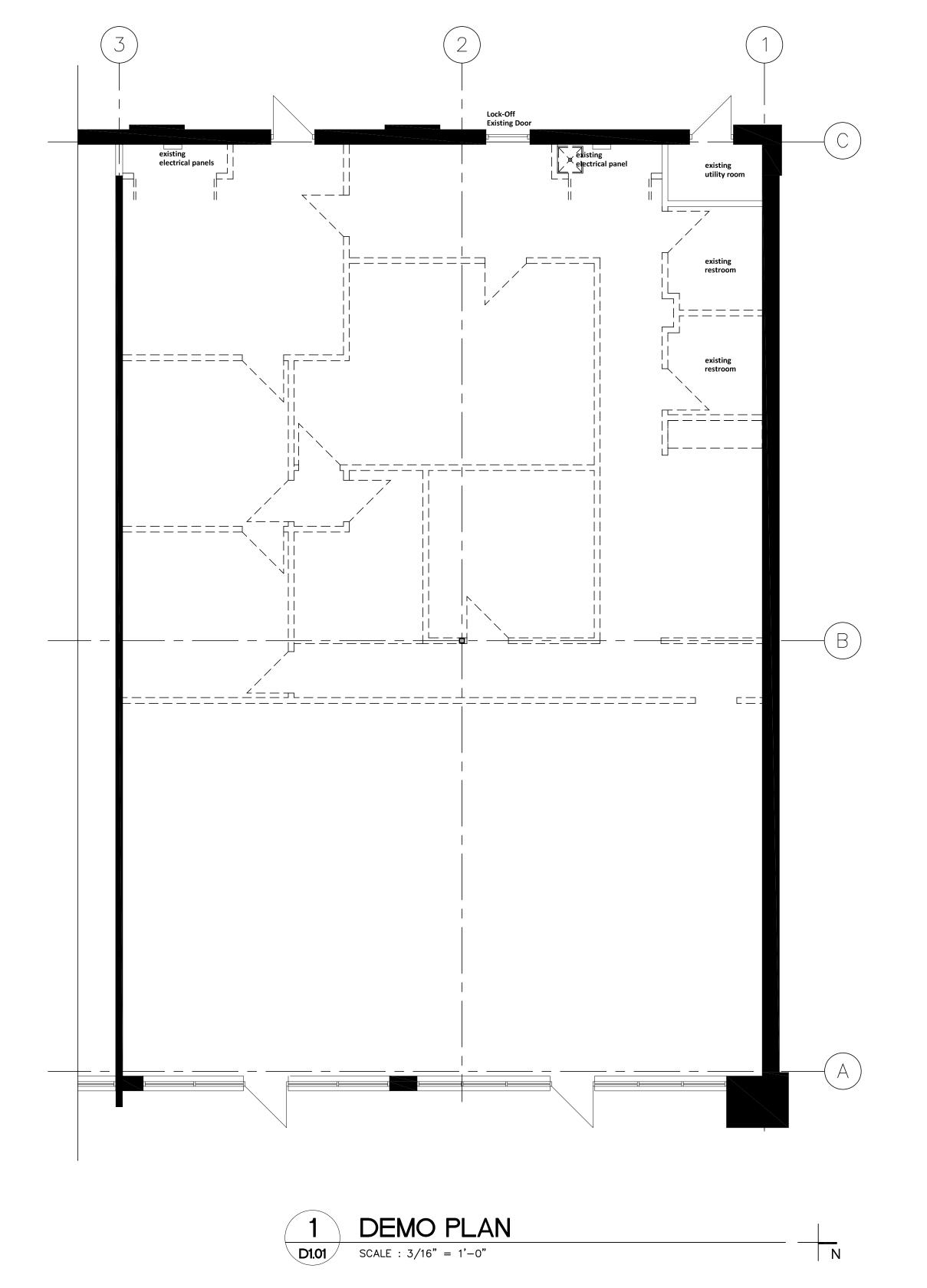
ARCHITE

D1.0

## **DEMOLITION NOTES:**

- DEMO EXIST. MTL. STUD/GYPSUM BD. PARTITIONS, FURRING AND CEILINGS FULLY TO EXTENTS SHOWN.
- 2. REMOVE EXISTING PLUMBING ELEMENTS/FIXTURES. CAP LINES BELOW FLOOR & SALVAGE FIXTURES WHERE
- 3. REMOVE ALL EXISTING FLOORING.
- 1) MODIFY EXISTING ROOF DRAIN AS REQUIRED TO BE FULLY ENCLOSED IN NEW WALL CAVITY.
- 2 SALVAGE DRINKING FOUNTAIN FOR REUSE.
- 3 RELOCATE EXISTING ELECTRIC PANELS PER ELECTRICAL DWGS.
- 4 SALVAGE FIRE EXTINGUISHER FOR REUSE. LOCATION TBD.





## **GENERAL NOTES:**

- CONTRACTOR TO REVIEW AND VERIFY ELECTRICAL REQUIREMENTS INCLUDING LOCATIONS OF EXISTING AND NEW OUTLETS INDICATED. REF ELECTRICAL PLAN
- 2. PATCH AND REPAIR ALL HOLES IN EXISTING WALLS TO REMAIN (TYP.)
- 3. REF. ELEVATIONS FOR EXERCISE EQUIPMENT BLOCKING & MOUNTING NOTES.
- 4. SHOWER "PAN" TO BE SLOPED TO TRENCH DRAIN PER PLAN. ALL OTHER FLOOR DRAINS (FD) TO BE NON-SLOPED AREA DRAINS.

## **CONSTRUCTION NOTES:**

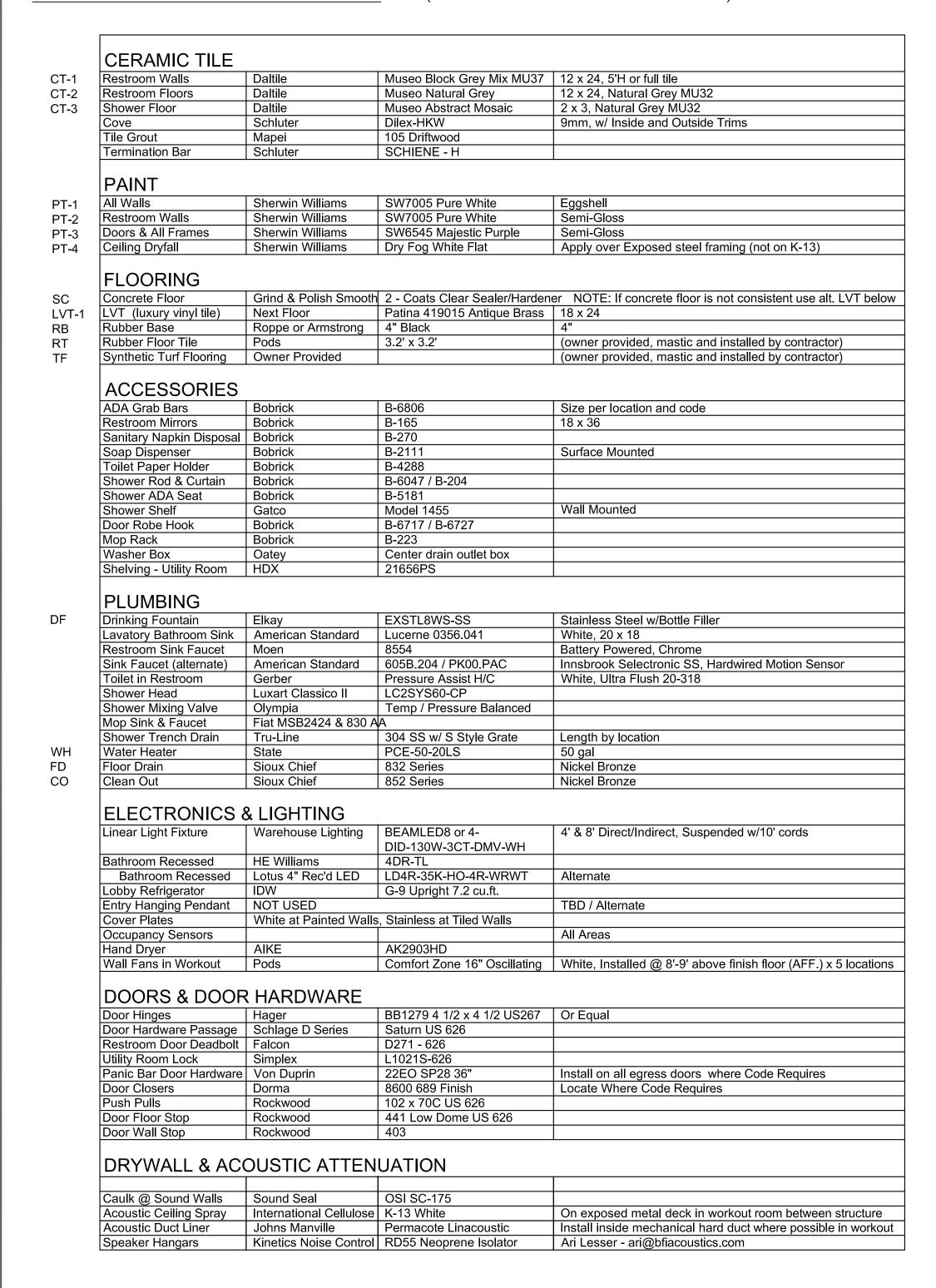
- LOCK OFF EXISTING DOOR AND REMOVE HARDWARE. INSULATE AND INFILL DOORWAY ON INTERIOR SIDE AS REQUIRED TO MATCH EXISTING WALL THICKNESS. ADD CONTRAST LETTERING SIGNAGE ON OUTSIDE OF DOOR TO READ "THIS DOOR BLOCKED".
- 2 GYP. BD. WALL FURRED OUT AS SHOWN TO END OF TURF FLOORING.
- 3 MODIFY WALL TYPE AS REQUIRED TO CLOSELY MATCH WALL TYPE SHOWN ON PLAN.

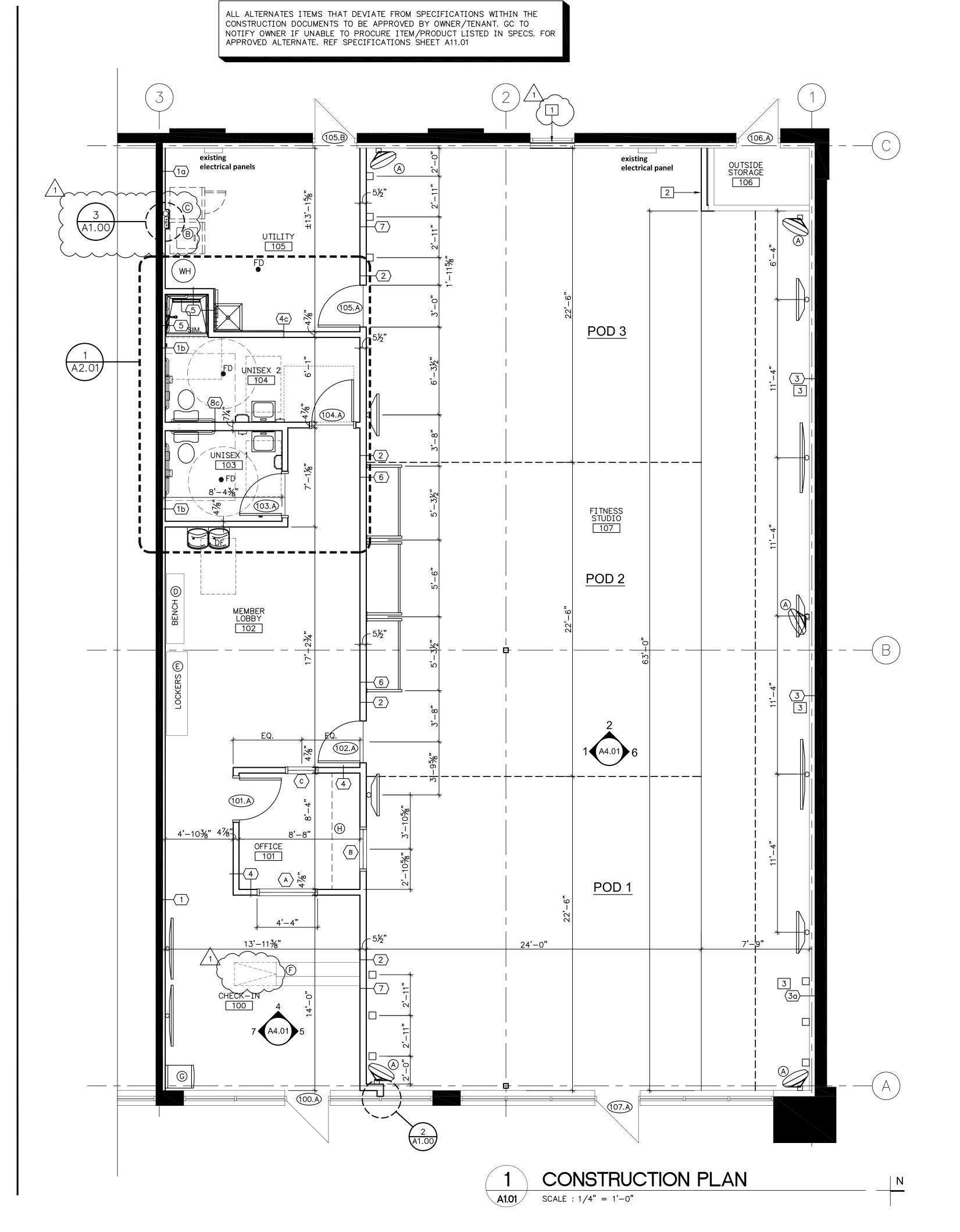
## PARTIAL EQUIPMENT LIST:

- (A) WALL-MOUNTED FANS, TYP. OF 5 (REF SPECIFICATIONS)
- B WASHER (OWNER PROVIDED CONTRACTOR INSTALLED)
- © DRYER (OWNER PROVIDED CONTRACTOR INSTALLED)
- MEMBER BENCH (OWNER PROVIDED)
- E LOCKERS (OWNER PROVIDED)
- F CHECK-IN DESK (OWNER PROVIDED CONTRACTOR INSTALLED)
- © FREESTANDING DRINKS REFIGERATOR (REF SPECIFICATIONS)
- (H) OFFICE DESKTOP (OWNER PROVIDED CONTRACTOR INSTALLED)

## PARTIAL SPECIFICATIONS:

(SEE COMPLETE SPECIFICATIONS ON SHEET A11.01)





1138 NE Douglas Rd., Lee's Summit, MO 64086

's Summit

Tenant Impro

Date: 12/30/22 Issued For: PERMIT

REVISIONS

No. Date D

Description
Description
CITY COMMENTS

JASON B HANSEN
NUMBER
A-2021000212
3.17.23

PROJECT TEAM

ARCHITECT MOMENTUM

ARCHITECTURE+DESIGN
STRUCTURAL

MECHANICAL 5BY5 ENGINEERS

ELECTRICAL 5BY5 ENGINEERS

FIRE PROTECTION

CONTRACTOR HAWTHORN PROJECTS

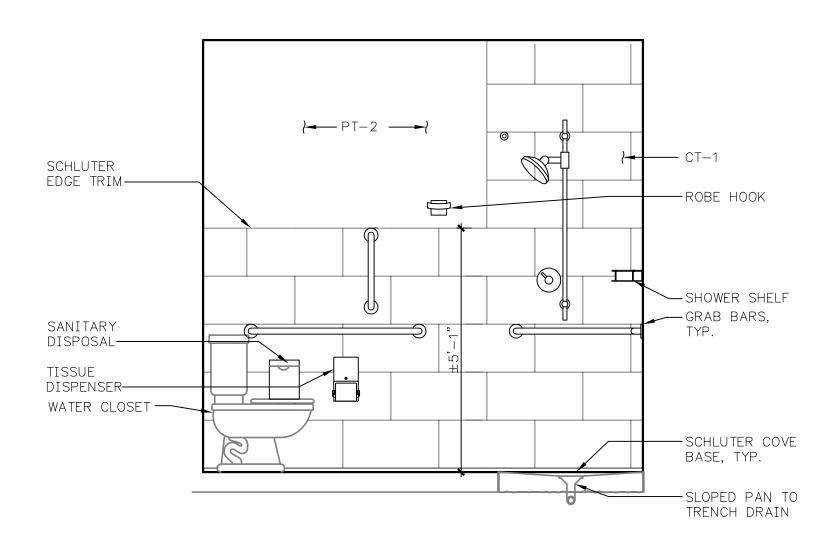
TECTURE+DESIGN

A R C H I T KS - MO

KS - MO

Commercial & Res

A1.01

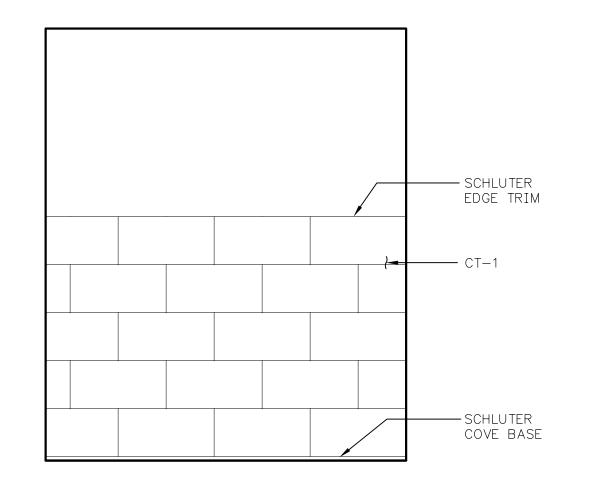


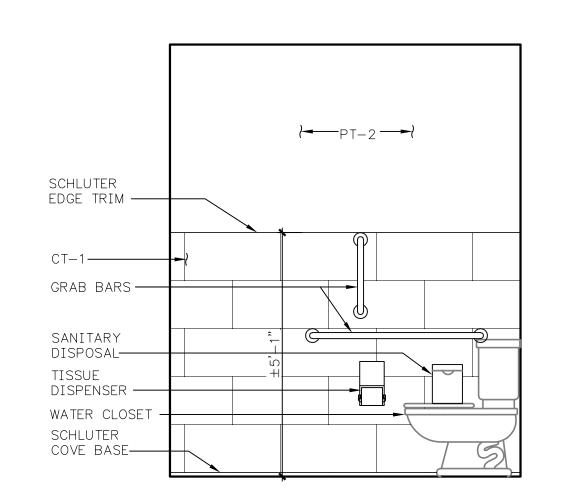
## TOILET ELEVATION

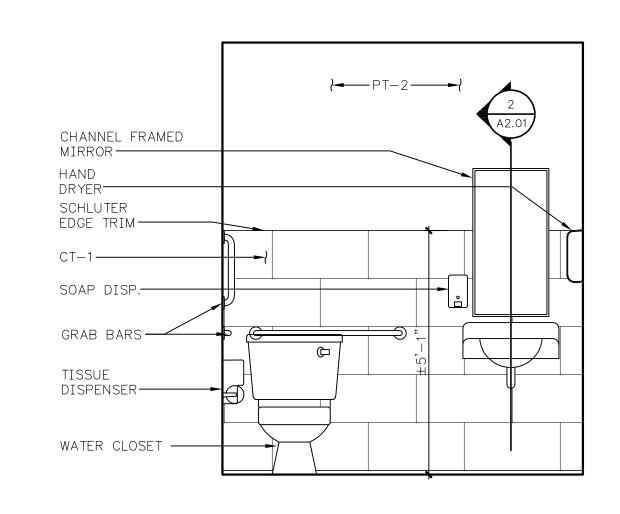
SCALE : 1/2" = 1'-0"

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

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







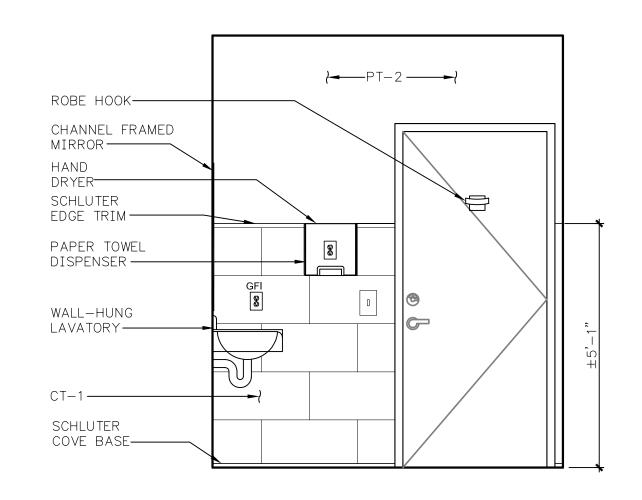
-SHOWER ROD & CURTAIN

- CT-1, 3-SIDES FULLY

INSIDE SHOWER

-SCHLUTER EDGE

TRIM, TYP.



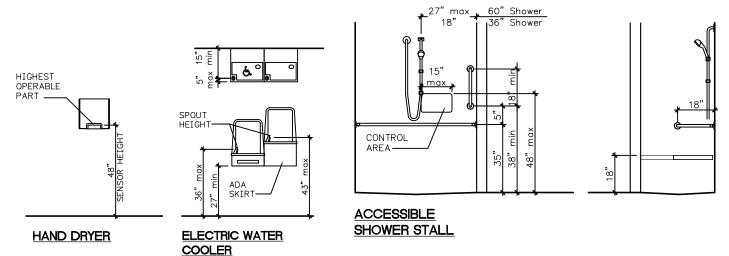


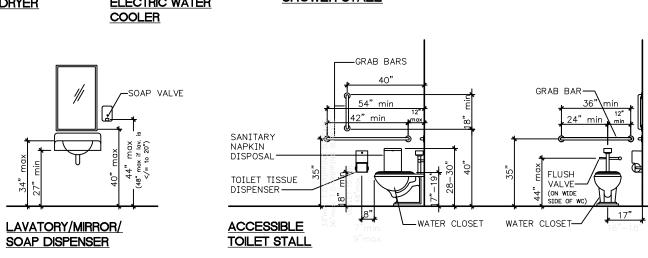
## TOILET ELEVATION SCALE : 1/2" = 1'-0"





## TYPICAL TOILET ACCESSORY MOUNTING HEIGHTS

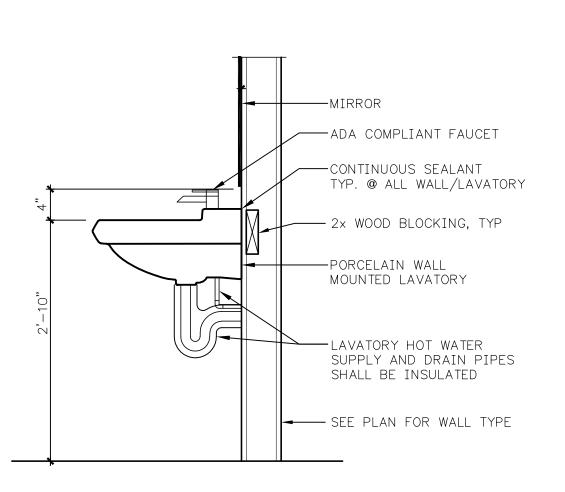




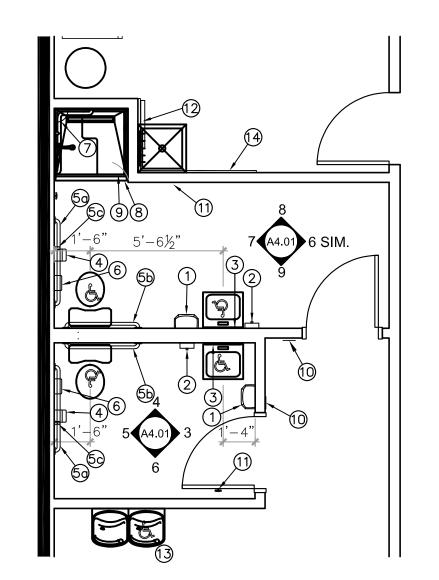
## TOILET ACCESSORY LEGEND

- ALL ACCESSORIES SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE. ALL ACCESSORIES SHALL BE DESIGNED TO MEET ADA STANDARDS.
- 1 HAND DRYER, ELECTRIC (REF SPECS.)
- 2 LIQUID SOAP DISPENSER SURFACE (MANUAL: BOBRICK B-2111)
- (3) FRAMED MIRROR (BOBRICK B-165, SIZE:18" x 36")
- 4 MULTI-ROLL TOILET TISSUE DISPENSER (BOBRICK B-4288)
- GRAB BARS 42" (BOBRICK B-6806 SERIES)
- (BOBRICK B-6806 SERIES)
- GO GRAB BARS 18" (BOBRICK B-6806 SERIES) 6 SANITARY NAPKIN DISPOSAL (SURFACE: BOBRICK B-270)
- (7) SHOWER SHELF (GATCO #1455)
- (8) SHOWER CURTAIN & ROD (SURFACE: BOBRICK B-6047 B-204)
- (9) SHOWER ADA SEAT (SURFACE: BOBRICK B-5181)
- 10 ADA SIGNAGE (REF SIGNAGE NOTES, A001)
- (1) ROBE HOOK (BOBRICK B-6717/B-6727)
- (12) MOP RACK (BOBRICK B-223)
- (3) DRINKING FOUNTAIN (ELKAY #EXSTL8WS-SS)
- (4) FIBERGLASS REINFORCED PANEL (WHITE, ONE 4'x8' SHEET)

Maximum Reach Depth	.05 inch	2 inches	5 inches	6 inches	9 inches	11 inches
Maximum Reach Height	48 inches	46 inches	42 inches	40 inches	36 inches	34 inches
TABLE 603.6 - A	NSI-117.1-2009	•				









Date: 12/30/22 Issued For:

**REVISIONS** 

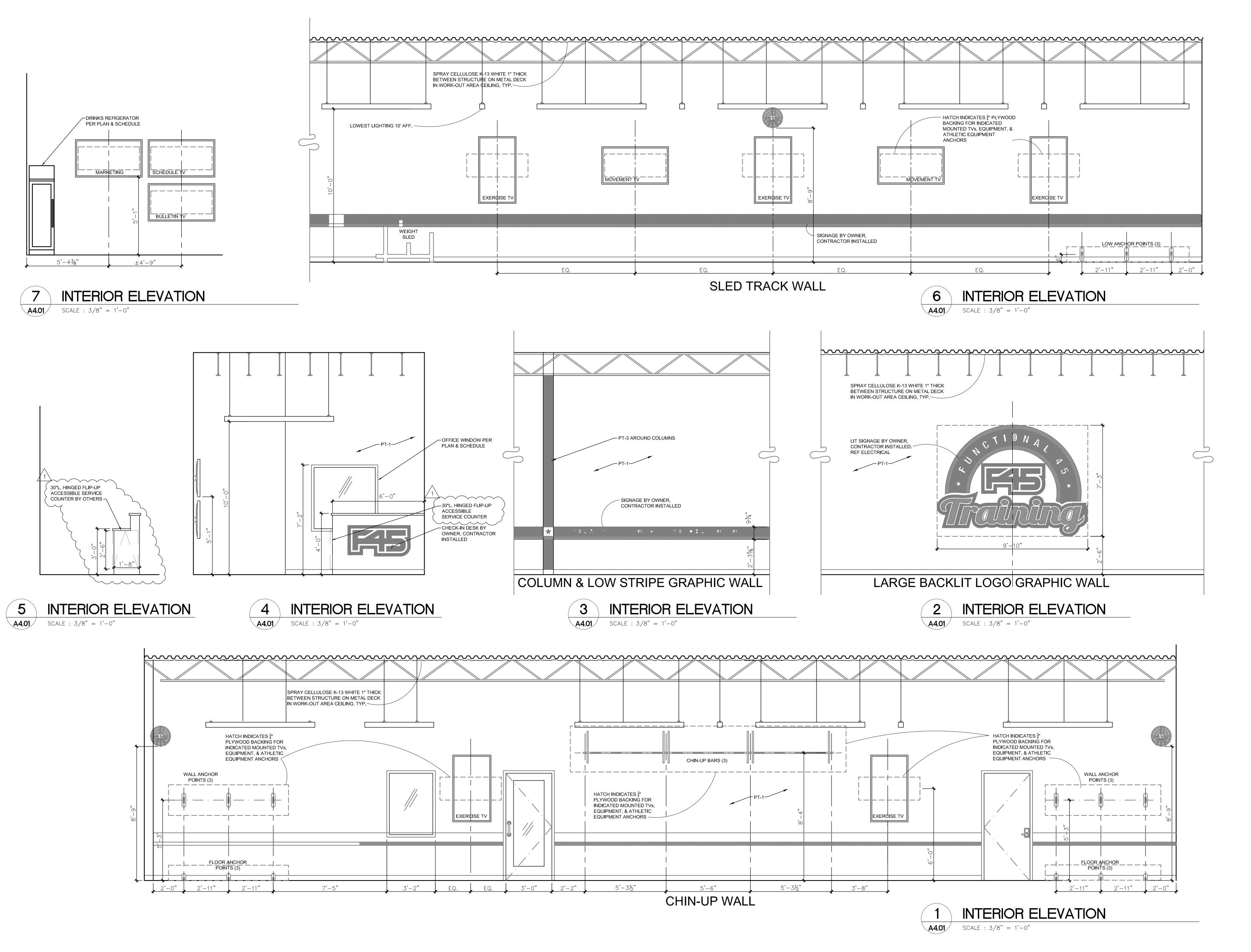


PROJECT TEAM

MOMENTUM ARCHITECTURE+DESIGN STRUCTURAL

**5BY5 ENGINEERS** MECHANICAL ELECTRICAL **5BY5 ENGINEERS** 

FIRE PROTECTION



1138 NE Douglas Rd.,

45 e's Summit

Date: 12/30/22 Issued For:

REVISIONS
No. Date Desc

3.17.23 CITY COMMENTS



PROJECT TEAM

ARCHITECT MOMENTUM
ARCHITECTURE+DESIGN

STRUCTURAL

MECHANICAL 5BY5 ENGINEERS

ELECTRICAL 5BY5 ENGINEERS

FIRE PROTECTION

CONTRACTOR HAWTHORN PROJECTS

RCHITECTURE

O.

A4.01

#### ROOM FINISH SCHEDULE DOOR AND FRAME SCHEDULE **CEILING** FRAME | RATING HARDWARE | REMARKS **ROOM** BASE WALLS REMARKS DOOR / WINDOW **DETAILS** MAT. HT. NO. SIZE (WxHxTh) TYPE | MAT. | TYPE | MAT. | E S W E S JAMB HEAD SILL LVT | RB-1 | RB-1 | RB-1 | RB-1 | PT-1 | PT-1 | PT-1 | PT-4 | 100 CHECK-IN 100.A | 3'-0"x7'-0" (F.V) Ε 101.A | 3'-0"x7'-0"x1<sup>3</sup>/4" 101 OFFICE LVT | RB-1 | RB-1 | RB-1 | RB-1 | PT-1 | PT-1 | PT-1 | PT-1 | SAT-1 | 9-0 LA.1 102.A | 3'-0"x7'-0"x1<sup>3</sup>/4" W2 | WD 102 | MEMBER LOBB LVT | RB-1 | RB-1 | RB-1 | RB-1 | PT-1 | PT-1 | PT-1 | PT-4 | PP.1 4'-4"x4'-4" (WINDOW) 103 | UNISEX 1 CT-2 | CT-S | CT-S | CT-S | CT-S $3'-2"\times 4'-4"$ (WINDOW) 104 UNISEX 2 CT-2 | CT-S | CT-S | CT-S | CT-S GB 9-0 SC | RB-1 | RB-1 | RB-1 | PT-1 | PT-1 | PT-1 | PT-1 | E | 2'-4"x4'-4" (WINDOW) 105 UTILITY HM 103.A | 3'-0"x7'-0"x1<sup>3</sup>/4" 106 STORAGE NOT IN SCOPE - REFERENCE ONLY LA.3 RT/TF | RB-1 | RB-1 | RB-1 | PT-1 | PT-1 | PT-1 | PT-1 | KP | 104.A | 3'-0"x7'-0"x1<sup>3</sup>/4" 107 | FITNESS STUDIO W1 | WD нм І LA.3 105.A | 3'-0"x7'-0"x1<sup>3</sup>/4' W1 | WD LK.2 105.B | 3'-0"x7'-0"x1<sup>3</sup>/4' Ε 106.A | 3'-0"x7'-0"x1<sup>3</sup>/4" NOT IN SCOPE - REFERENCE ONLY 107.A 3'-0"x7'-0" (F.V.)

## FINISH SCHEDULE LEGEND

REFERENCE ROOM FINISH PLAN AND INTERIOR ELEVATIONS FOR SPECIFIC FINISH DESIGNATION IF FINISH SCHEDULE INDICATES GENERAL FINISH

- (CERAMIC TILE W/ 1/8" MAX. GROUT JOINTS SEALED W/ SILICONE SEALER) PROVIDE CRACK BRIDGING MEMBRANE OVER ALL CONTROL JOINTS AND COLD JOINT IN SLAB CT-1: MFR: DALTILE, STYLE/COLOR: MUSEO, BLOCK GREY MIX MU37, SIZE:12"x24", PATTERN: BRICK, GROUT COLOR: MAPEI, 105 DRIFTWOOD
  - CT-2: MFR: DALTILE, STYLE/COLOR: MUSEO NATURAL GREY, SIZE:12"x24" MU32, PATTERN: BRICK, GROUT COLOR: MAPEI, 105 DRIFTWOOD CT-3: MFR: DALTILE, STYLE/COLOR: MUSEO ABSTRACT MOSAIC, SIZE: 2"x3" MU32, PATTERN:
- BRICK, GROUT COLOR: MAPEI, 105 DRIFTWOOD
- LVT: MFR: NEXT FLOOR, SERIES: "PATINA", COLOR: 419015 ANTIQUE BRASS, SIZE: 18"x24"; INSTALLATION PATTERN: PER MFR
- (RUBBER SPORT FLOOR TILE)
  - RT: MFR: PROVIDED BY OWNER; INSTALLATION: BRICK PATTERN, GLUE DOWN AT EDGES
- TF: MFR: PROVIDED BY OWNER: COLOR: BLUE; INSTALLATION: PER MANUFACTURER
- (EXPOSED SEALED CONCRETE POLISHED AND FINISHED W/ CURE-N-SEAL)
- EXISTING TO REMAIN

REFERENCE ROOM FINISH PLAN AND INTERIOR ELEVATIONS FOR SPECIFIC **BASE FINISHES** FINISH DESIGNATION IF FINISH SCHEDULE INDICATES GENERAL FINISH

- (VULCANIZED RUBBER WALL BASE)
  - RB-1: SIZE: 4", STYLE: COVE; MFR: ROPPE; 100, COLOR: BLACK
- <u>CT-1</u> WALL TILE ON <u>SCHLUTER DILEX HKW</u> (COVE GREY)

#### WALL FINISHES REFERENCE ROOM FINISH PLAN AND INTERIOR ELEVATIONS FOR SPECIFIC FINISH DESIGNATION IF FINISH SCHEDULE INDICATES GENERAL FINISH

- SATIN FINISH ACRYLIC LATEX PAINT OVER GYPSUM WALLBOARD; 2 COATS OVER MFR'S SUGGESTED PRIMER. SEMI-GLOSS FINISH AT "WET" AND HIGH USE AREAS - REF FIN. NOTES. PT-1: MFR.: SHERWIN WILLIAMS, SHEEN: EGGSHELL, COLOR: SW7005 "PURE WHITE" PT-2: MFR.: SHERWIN WILLIAMS, SHEEN: SEMI-GLOSS, COLOR: SW7005 "PURE WHITE" PT-3: MFR.: SHERWIN WILLIAMS, SHEEN: SEMI-GLOSS, COLOR: SW6545 "MAJESTIC PURPLE" PT-4: MFR.: SHERWIN WILLIAMS, DRY FOG WHITE FLAT
- FIBERGLASS REINFORCED PLASTIC WALL PANELS W/ STANDARD BATTENS, EDGE AND CORNER TRIM (MFR: TBD, COLOR: WHITE
- EXISTING TO REMAIN

**CEILING FINISHES** REFERENCE ROOM FINISH PLAN AND INTERIOR ELEVATIONS FOR SPECIFIC FINISH DESIGNATION IF FINISH SCHEDULE INDICATES GENERAL FINISH SAT: SUSPENDED ACOUSTICAL TILE CEILING

SAT-1: SIZE: 24"x48", MFR: ARMSTRONG, STYLE: CORTEGA SECOND LOOK SCORED 24"x24", GRID: 15/6" HEAVY DUTY WHITE

- GB: SATIN FINISH ACRYLIC LATEX PAINT OVER GYPSUM WALLBOARD; 2 COATS OVER PRIMER - PT-2
- KP: K-13 ACOUSTICAL CELLULOSE INSULATION ON METAL EXPOSED METAL DECK. PAINT ALL REMAINING EXPOSED OVERHEAD STEEL - SW WATERBORNE ACRYLIC DRYFALL, WHITE
- E: EXISTING TO REMAIN

## **REMARKS**

1. ALL OVERHEAD EXPOSED STEEL IS TO BE PAINTED AFTER APPLICATION AND MFR RECOMMENDED DRYING TIME OF K13 ACOUSTICAL CELLULOSE SPRAY.

## GENERAL FINISH NOTES

- 1. PAINT ALL NEW DOORS, DOORS AND WINDOW FRAMES W/ 2 COATS OF SEMI-GLOSS, ACRYLIC LATEX PAINT, PT-3 - UNLESS OTHERWISE NOTED.
- 2. PROVIDE THE FOLLOWING TRANSITION STRIPS AT LOCATIONS WHERE DISSIMILAR FLOOR MATERIALS

RUBBER FLOORING TO CONCRETE: (FLOORING INSTALLER VERIFY)

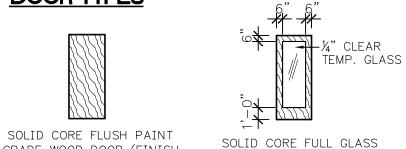
CERAMIC TILE TO CONCRETE: (FLOORING INSTALLER VERIFY)

CERAMIC TILE TO LVT: (FLOORING INSTALLER VERIFY)

- 3. ROOM FINISH SCHEDULE IS FOR GENERAL COORDINATION OF FINISHES. REFERENCE CONSTRUCTION PLAN (A1.01) AND FINISH PLAN (A8.02) AND INTERIOR ELEVATION(S) FOR COORDINATION OF ALL FINAL FINISHES.
- 4. FINISHES NOT SPECIFIED TO BE COORDINATED WITH TENANT/CONTRACTOR.
- 5. APPROXIMATE HEIGHT OF EXISTING CEILING GRID = 9'-0" A.F.F. (FIELD VERIFY PRIOR TO CONSTRUCTION)

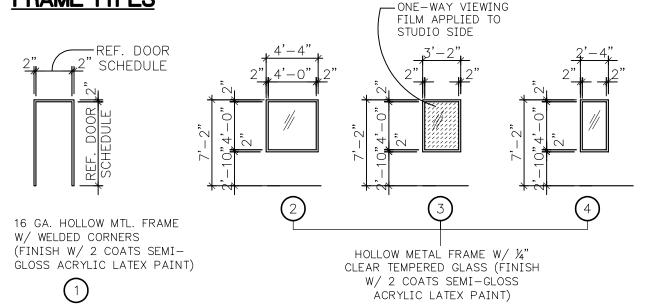
## DOOR LEGEND

## **DOOR TYPES**



GRADE WOOD DOOR (FINISH WOOD DOOR. (FINISH W/ 2 W/ 2 COATS SEMI-GLOSS COATS SEMI-GLOSS ACRYLIC ACRYLIC LATEX PAINT) LATEX PAINT)

## FRAME TYPES



## REMARKS LEGEND

1. VERIFY EXISTING HARDWARE IS ADA COMPLIANT AND IN SERVICEABLE CONDITION. 2. ADD ONE-WAY WINDOW FILM ON STUDIO SURFACE.

## **HARDWARE SETS**

- GENERAL NOTES: 1. ALL HARDWARE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) 2. ALL DOOR HARDWARE SHALL BE FINISH US26D OR EQUIVALENT. 3. ALL LATCHSETS AND LOCKSETS SHALL BE EQUIPPED WITH LEVER TYPE OPERATING TRIM.
- 5. CONTRACTOR'S HARDWARE CONSULTANT SHALL BE RESPONSIBLE FOR DETERMINING APPROPRIATE HARDWARE FUNCTION AND OPTIONS.
- 6. CONTRACTOR SHALL COORDINATE FINAL KEYING WITH OWNER.

## (LK) INTERIOR LATCHSET/ LOCKSETS

4. ALL CLOSERS SHALL BE LOCATED ON ROOM SIDES OF DOORS.

SET # LA.1 (INTERIOR SINGLE W/ LOCK - OFFICE) ("HAGER" BB1279 4½ x4½) ("SCHLAGE" D-SERIES, SATURN 626) ("ROCKWOOD" 403) -SILENCERS ("ROCKWOOD" 608-RKW)

 $\frac{\text{SET \# LK.2}}{-\text{HINGES}} \text{ (interior single w/ lock & closer - util room)} \\ -\text{HINGES} \qquad \text{("HAGER" BB1279 4\\\^2\)2 \times 4\\\^2\&2\\\^2\\\^2\&2\\\^2\&2\\\^2\&2\\\^2\&2\\\^2\&2\\\^2\&2\\\^2\\\^2\\\^2\&2\\\^2\\\\^2\\\^2\\\^2\\\\^2\\\^2\\\\^2\\\^2\\\\^2\\\\^2\\\\^2\\\\^2\\\\^2\\\\^2\\\\^2\\\\^2\\\\^2\\\\^2\\\\^2\\\\^2\\\\^2\\\\\^2\\\\^2\\\\^2\\\\^2\\\\^2\\\\^2\\\\^2\\\\\^2\\\\\^2\\\\^2\\\\\^2\\\\^2\\\\\^2\\\\^2\\\\^2\\\\\^2\\\\\^2\\\\\^2\\\\^2\\\\\^2\\\\\^2\\\\\^2\\\\\^2\\\\\^2\\\\\^2\\\\\^2\\\\\^$ ("HAGER" BB1279 4½ x4½) ("SIMPLEX" L1021S-626) -LOCKSET -CLOSER ("DORMA" 8600-689 SERIES) -DOOR STOP ("ROCKWOOD" 403) -SILENCERS ("ROCKWOOD" 608-RKW)

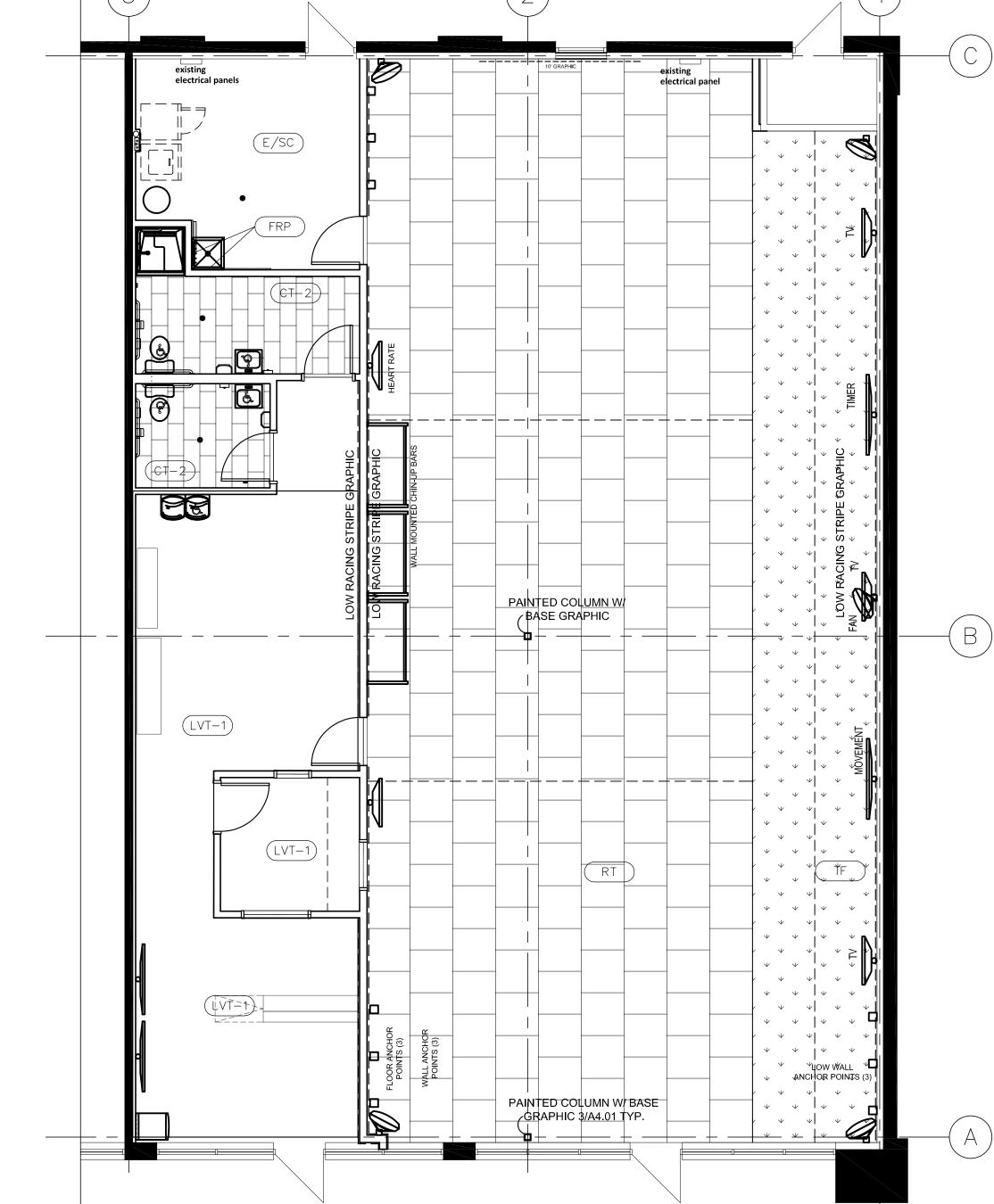
SET # LA.3 (INTERIOR SINGLE W/ LOCK - TOILETS)
-HINGES ("HAGER" BB1279 4½ ×4½) ("SCHLAGE" D-SERIES, SATURN 626) ("FALCON" D271-626) -CLOSER ("DORMA" 8600-689 SERIES) -DOOR STOP ("ROCKWOOD" 403) -SILENCERS ("ROCKWOOD" 608-RKW)

#### (AL) ALUMINUM DOORS SET # AL.1 (EXTERIOR SINGLE ALUMINUM) (HEAVY DUTY - BY DOOR MFR.) -HINGES

-CLOSER (HEAVY DUTY - BY DOOR MFR.) -PUSH/PULLS (MATCH EXISTING) -DEAD LATCH ("ADAMS-RITE" 4510 DEAD LATCH W/ 4560 LEVER TRIM) -THRESHOLD ("PEMKO" 2005 AS OR EQUAL) -WEATHERSTRIP ("PEMKO" 316 AV OR EQUAL) -BOTTOM SWEEP ("PEMKO" 345 2AV OR EQUAL)

(PP) PUSH/PULLS

<u>SET # PP.1</u> (INTERIOR SINGLE PUSH/PULL - FITNESS ROOM) ("HAGER" BB1279 4½ x4½) -PUSH/PULL ("ROCKWOOD" 102x70C US 626) -CLOSER ("DORMA" 8600-689 SERIES) -KICKPLATES (2) "ROCKWOOD" K1038 8"x34") -DOOR STOP ("ROCKWOOD" 441) -SILENCERS ("ROCKWOOD" 608-RKW)



Date: Issued For: **REVISIONS** ARCHITECT STRUCTURAL MECHANICAL ELECTRICAL 



12/30/22 PERMIT

No. Date Description

JASON B HANSEN A-2021000212

PROJECT TEAM

MOMENTUM ARCHITECTURE+DESIGN

5BY5 ENGINEERS

FIRE PROTECTION

CONTRACTOR HAWTHORN PROJECTS

**5BY5 ENGINEERS** 

## CEILING CONSTRUCTION NOTES:

- 1. LAYOUT SHOWN FOR REFERENCE ONLY. REF LIGHTING AND MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.
- 2. CONTRACTOR TO REVIEW AND VERIFY LOCATIONS OF MECHANICAL EQUIPMENT INCLUDING DIFFUSERS, RETURN AIR GRILLES, AND THERMOSTATS.
- 3. CONTRACTOR TO REVIEW AND VERIFY LOCATIONS OF LIFE SAFETY EQUIPMENT INCLUDING EXIT SIGNS AND OCCUPANT NOTIFICATION DEVICES.

CONTRACTOR TO REVIEW AND VERIFY LOCATIONS OF LIFE SAFETY EQUIPMENT INCLUDING EXIT SIGNS AND OCCUPANT NOTIFICATION DEVICES.

## REFLECTED CEILING LEGEND



NEW GYP. BD. CEILING



1" SPRAYON CELULOSE K-13 ACOUSTIC INSULATION



NEW 2'x4' SUSPENDED ACOUSTICAL TILE CEILING AND



RECESSED CAN LIGHT REF SPECIFICATIONS

NEW OR EXISTING GRID.

WALL SCONCE, REF SPECIFICATIONS



4' OR 8' LED STRIP PENDANT LIGHT REF SPECIFICATIONS



WALL MOUNTED AUDIO SPEAKER, REF SPECIFICATIONS



EXIST. SUPPLY AIR DIFFUSER TO REMAIN. REF. MECHANICAL



NEW LOCATION FOR RELOCATED SUPPLY AIR DIFFUSER. VERIFY LOCATIONS WITH MECHANICAL



EXIST. RETURN AIR GRILLE TO REMAIN. VERIFY LOCATIONS WITH MECHANICAL CONTRACTOR.



NEW/RELOCATED RETURN AIR GRILLE. VERIFY



LOCATIONS WITH MECHANICAL CONTRACTOR



EXIST. EXIT SIGN TO REMAIN

EXIST. EXIT SIGN TO BE REMOVED. SALVAGE FOR REINSTALLATION NEW LOCATION FOR RELOCATED EXIT SIGN

EXIST. EMERGENCY LIGHT TO REMAIN

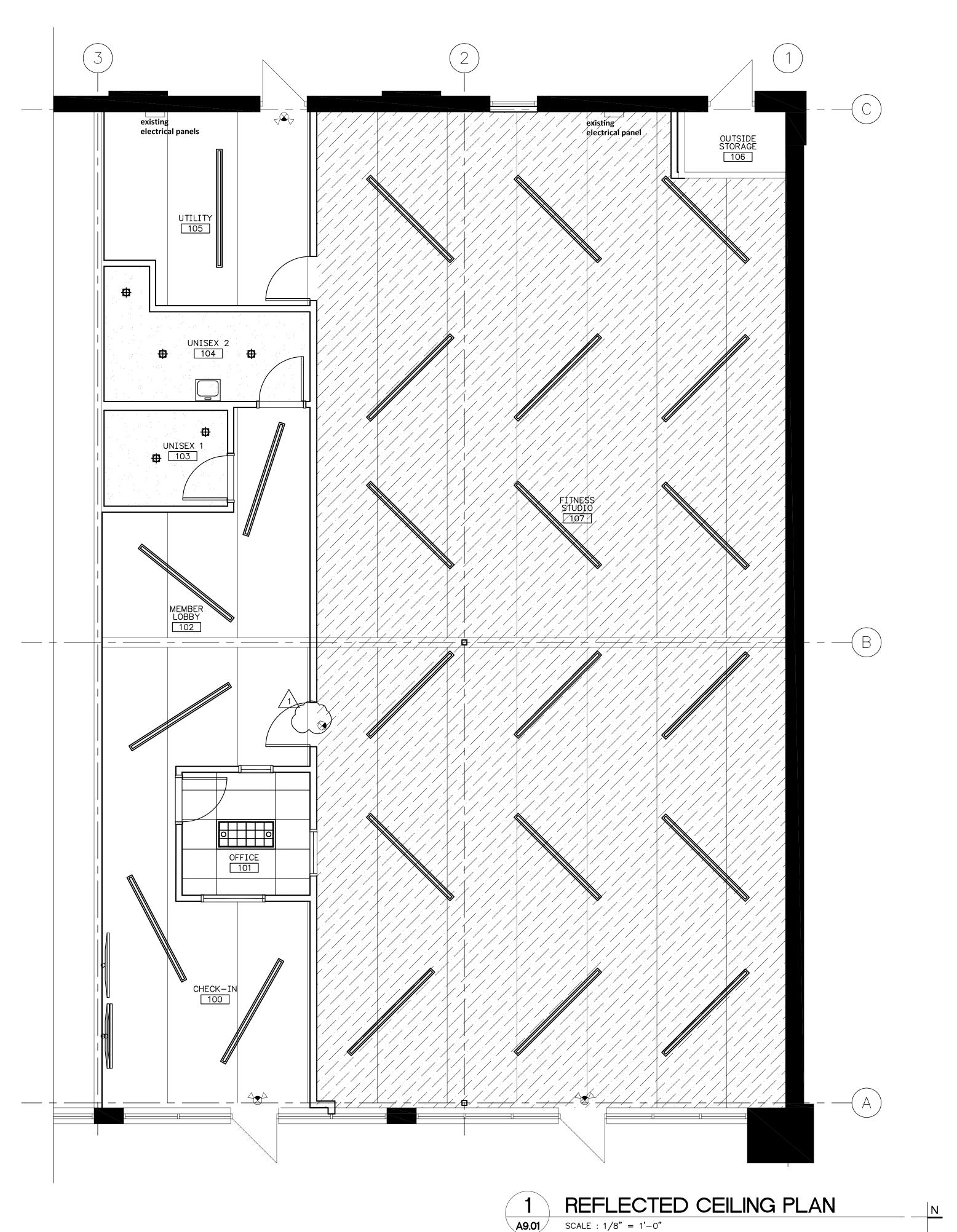
EXIST. EMERGENCY LIGHT TO BE REMOVED. SALVAGE FOR REINSTALLATION

NEW/ RELOCATED EMERGENCY LIGHT

EXIST. HORN/STROBE TO REMAIN

EXIST. HORN/STROBE TO BE REMOVED. SALVAGE FOR REINSTALLATION

NEW/ RELOCATED HORN/STROBE



Date: 12/30/22 Issued For:

**REVISIONS** 

No. Date Description 1\ 3.17.23 CITY COMMENTS



PROJECT TEAM

MOMENTUM

**5BY5 ENGINEERS** 

ARCHITECTURE+DESIGN

ARCHITECT

STRUCTURAL

ELECTRICAL

**5BY5 ENGINEERS** MECHANICAL

FIRE PROTECTION

	MaD Fitness Group			12/08/2022 Update						
	F45 Spec Book			ons with owner approval						
Division	All changes/substitutions to be app	proved by ow	ner Location	MFG	Model	Other	Color/Misc	Website	Add'l Contact Info	Revision
lumbing	Water Fountain	Standard	Hallway-per plan	Elkay	EXSTL8WS	With Bottle Filler	SS	<u> </u>	THAT COMMON TIME	110101011
lumbing lumbing	Water Fountain Sink Wall	Alternate Standard	Hallway-per plan Bathroom	Halsey Taylor American Standard	HTHB-HA Lucerne 0356.041	CG8BLSS 20 x 18	SS White			
umbing	Sink Wall	Alternate	Bathroom	Gerber	Monticello II	20 x 18	White			9/22
lumbing lumbing	Toilet Faucet-Sink	Standard Standard	Bathroom  Bathroom	Gerber Moen	Pressure assist H/C 8554	Ultra Flush 20-318	White Chrome			9/12
lumbing	Faucet-Sink Faucet-Sink	Alternate	Bathroom	American Standard	605B.204/PK00.PAC	Battery powered Innsbrook Selectronic	SS			9/12
lumbing	Shower Hand Held	Standard	Bathroom	Luxart Classico II	LC2SYS60-CP		SS			
lumbing lumbing	Shower Valve Mop Floor Sink and Faucet	Standard Standard	Bathroom Utility	Olympia Fiat MSB2424 and 830 AA Faucet	Temp/Pressure Balanced	Or equal floor mounted	SS White			
lumbing	Mop Rack	Standard	Utility	Bobrick B-223 Mop holder		Or equal floor mounted	SS			
lumbing	Water Heater	Standard	Utility- floor/or hung	State 50-Gallon	PCE-50-20LS	50 Gallon				
lumbing lumbing	Water Heater Trench Drain	Alternate Standard	Utility- floor/or hung Shower	A O Smith 50-Gallon Tru-Line	DEL 50 304 SS with S Style grate	50 Gallon SS	Length by location			
lumbing	Trench Drain	Alternate	Shower	Zurn	ZS880	SS	Length by location			
lumbing	Washer Box	Standard	Utility	Oatey Sioux Chief	Center drain outlet box	38934	White Nickel Bronze			
lumbing lumbing	Floor Drain Clean Out	Standard Standard	Bathrooms/Laundry per plan Per code - adjustable	Sioux Chief	832 Series 852 Series	Or equal Or equal	Nickel Bronze  Nickel Bronze			
ile	Tile-Bathroom Wall	Standard	Bathroom	Daltile	Museo Block Grey Mix MU37	12 x 24 (Horizontal)	Total to 5' height or full tile		oducts/concrete-look/museo/grey-m	
ile ile	Tile-Bathroom Wall Tile-Bathroom Floor	Alternate Standard	Bathroom Bathroom	Daltile Daltile	Museo Block White Mix MU36  Museo Natural Grey MU32	12 x 24 (Horizontal) 12 x 24	Only if MU37 not available  Natural Grey MU32	https://www.daltile.com/pr https://www.daltile.com/pr	oducts/concrete-look/museo/white-r	<u>nix</u>
ile	Tile-Shower Floor	Standard	Bathroom	Daltile	Museo Abstract Mosaic MU32	2 x 3	Natural Grey MU32		oducts/concrete-look/museo/natural	-grey
ile	Tile- Base	Standard	Bathroom	Schluter Cove at base	Dilex-HKW	9 MM			With inside/outside trims	9/12
lle ooring	Tile- Grout Sealed Concrete	Standard Standard	Bathroom Utility/Storage	Mapei	105 Driftwood  Use LVT when floor unsuitable to be e	All tile xposed	Use LVT when floor unsuitable to be exposed			8/11
ooring	Vinyl	Alternate	Utility/Storage  Utility/Storage	Armstrong Excelon Field Gray 51927	Use when floor unsuitable to be expose	rd	Use when floor unsuitable to be exposed			
looring	Sealed/Polished Concrete	Standard	Common areas	Office/Reception/Corridors	Use LVT when floor unsuitable to be e	<u> </u>	Use LVT when floor unsuitable to be exposed		Don't Distance in 125 and C	
looring looring	Floor-LVT (Ga and Fl locations)	Standard Standard	Common areas  Common areas	Next Floor  Next Floor	Patina 419015 Antique Brass Patina 419015 Antique Brass	18 x 24 18 x 24	https://www.roeselheck.com/  Dunn Rasbury@a-msupply.com		Dori Blitzstein blitzstein@msn.com  Jill Turner@a-msupply.com	
ooring	Floor-LVT	Alternate	Common areas	Armstrong	Braco 331 Mortar	Only used when Next Floor product is r				
looring	Cove base	Standard	As required per plan	Roppe or Armstrong	4" Black	Adhasiya anto marin 1 , 1	Driet/Stagger 1 - 44 - NOT 41'	EAE Flooring Track III of the	SEAE Flooring Track-Harris 11	0/15
looring looring	Rubber Gym Tile Rubber Gym Tile	Standard Standard	Pods Transition to LVT	Provided by owner Provided by flooring installer	3.2' x 3.2' Install in offset pattern  Tarkett	Adhesive only required at edges CRS-40-D	Brick/Staggered pattern NOT Aligned Black	r45 Flooring - Installation Us	<u>s-F45 Flooring - Installation Use.pdf</u>	9/12 9/22
ooring	Astroturf Track	Standard	Sled Tracks	Provided by owner	7.8' wide	Follow manufacturer instructions	Blue		F45 Flooring - Installation Use.pdf	10/31
ooring	Astroturf Track Adhesive	Standard	Sled Tracks	Provided by flooring installer Bobrick	Mapei Ultrabond G21	Follow manufacturer instructions		F45 Flooring - Installation Us	F45 Flooring - Installation Use.pdf	12/6
pecialties pecialties	Grab Bar Mirror	Standard Standard	Bathroom above Sink	Bobrick Bobrick	B-6806 B-165	Size per plan 18" x 36"		1		
pecialties	Sanitary Napkin Disposal	Standard	Bathroom	Bobrick	B-270		Both restrooms			
pecialties pecialties	Soap Dispenser Toilet tissue	Standard Standard	Bathroom Bathroom	Bobrick Bobrick	B-2111 B-4288	Surface Mounted				
pecialties	Shower rod/curtain	Standard	Bathroom	Bobrick	B6047/B204					
pecialties	Shower seat	Standard	Bathroom	Bobrick	B5181					
pecialties	Shower Shelf	Standard	Shower	Gatco	Model 1455	Wall mount shelf	SS - Must be installed at time of tiling			8/11
pecialties pecialties	Robe hook Hand Dryers	Standard Standard	Bathroom  Bathroom	Bobrick AIKE	B6717/B6727 AK2903HD	Match available voltage	Remove cord and wire direct			
pecialties	Hand Dryers	Alternate	Bathroom	Xlerator	White	Match available voltage	Only when AIKEis not available			
pecialties	Paper Towel Dispenser	Alternate	Bathroom	Tork	Xpress Multi fold	When electric is not available for hand	<u> </u>		ONLY WHEN DEOLUDED 1 COL	10/11
pecialties	Baby Changer-ONLY WHEN REQ'D	When Req.		Koala Kare	KB301 Grey-01	Or per drawing when required	ONLY WHEN REQUIRED by CODE White - order from Amazon \$34.59 or price		ONLY WHEN REQUIRED by COD 5 Total (1 each corner & 1 center	
pecialties	Wall Fans	Standard	Pods	Comfort Zone 16" Oscillating	Model CZ16WR	With remote control	match from Home Depot	https://www.amazon.com/g	over sled track)	9/12/
pecialties	Shelving	Standard	Utility Room	HDX	Model 21656PS	Confirm size based on space	Chrome		Available at Home Depot	8/11,
lectrical	Light Fixture	Standard	Everywhere but bathrooms	Warehouse Lighting	BEAMLED8 or 4- DID-130W-3CT-DI	4' and 8' Direct/Indirect	White suspended (60% down/40% up) with beam canopy kits and 10' cords	https://www.warehouse-lig	https://trisun-my.sharepoint.com/p	11/2,
lectrical	Light Fixture-Add'l cable when req'd	Standard			Add'l cable when required to extend ha	<u> </u>			https://www.cablemasterpowercord	ds 12/6
lectrical	Light Fixture	Alternate	Everywhere but bathrooms	American Linear	Also was when draw sailing in other an	4' and 8' Direct/Indirect	White 3500/4k suspended	https://www.warahausa.lig	hhttps://trisup.mu.charanaint.com/n	12/6
lectrical lectrical	Light Fixture  Light Fixture	Standard Standard	Office when drop ceiling  Bathrooms	Lotus LED LD4R-HO	Also use when drop ceiling in other are LD4R-35K-HO-4R-WRWT	eas with owner confirmation	Recessed white reflector and trim	nttps://www.warenouse-iig	https://trisun-my.sharepoint.com/p	er 12/6, 11/16,
lectrical	Light Fixture	Alternate	Bathrooms	HE Williams	4DR-TL		Recessed			, -,
lectrical lectrical	Light Fixture  Light Fixture	Alternate Standard	Bathrooms Utility Room	Helios 6" recessed Warehouse Lighting	6R 25L40KWF Downlight 4' or 8' LED high bay suspended fixture	nor plan Inoversive alternative	Recessed 120-277 volt 4 lamp			
lectrical	Light Fixture  Light Fixture		D Bathrooms-Vanity	Not used	+ Of 6 LED high bay suspended fixture	per prant-mexpensive alternative	No vanity lights by mirror only recessed lights	in bathroom		
lectrical	Cover plates	Standard	White at painted walls, Stainles							
lectrical lectrical	Occupancy Sensors  Camera receptacles	Standard Standard	All areas-per plan	Per plans - 1 each facing main entrance door and rear exit	doors		Or equal with approval			12/5
lectrical	Outlets for Large Logo sign in Pod	Standard	· ·			l er at 32 1/2" AFF, middle at 69 3/4" AFF an	d top at 108 3/4" AFF. Coordinate final outlet loca	Ition with owner. Switch locati	ion per owner (in utility rm if nearby)	12/5
lectrical	Reception Counter receptacle-Quad	Standard	Quad outlet at wall located at 1	8" AFF at middle of side of desk.						12/5
lectrical lectrical	Locker electric receptacle  Refrigerator receptacle	Standard Standard		lly 6'-6" AFF and 12" left and right of the centerlere to be determined based on space. Verify locat				1		12/5 12/5
lectrical lectrical	Lionheart receptacle	Standard Standard	Ceiling mounted at center of Po	1 2	HOII WILLI OWIICI			<del> </del>		12/5
lectrical	Bluetooth receptacle	Standard	E	nay be able to use per code outlet)	** ***					
oors oors	Door Hardware Hinges Door Hardware Passage	Standard Standard	All Restrooms	Hager Schlage D Series	Hager BB1279 4 1/2 x 4 1/2 US 627 Saturn US 626	Passage	Or equal	1		
oors	Occupancy Indicator Deadbolt	Standard	Restrooms	Falcon	D271- 626	1 400450	Or equal	<u> </u>		
oors	Door Hardware Passage	Standard	Office	Schlage D Series	Saturn US 626	Passage	•			
oors	Door Hardware Panic Bar	Standard Standard	Other  Rear exits at metal doors	Schlage D Series  Von Duprin	Saturn US 626 22EO SP28 36"	With 230L SP28 Lever trim and 7205 c	Where applicable	<u> </u>	Where required by code	8/11
oors	All emergency exits	Standard		/ locked from the exterior & have panic bars	Detex Alarm EAX-500	Mount on door with keyed alarm function	·	<u></u>		3/11
oors	Combo Lock	Standard	Utility Room	Simplex	L1021S-626		Or equal-VE			
oors	Door Floor Stops  Door Wall Stops	Standard Standard	As required As required	Rockwood  Rockwood	441 Low dome US 626		Or equal Or equal	+		
oors	Closers	Standard	As required  As required	Dorma	8600 689 finish		Or equal			
oors	Push Pull	Standard	As required	Rockwood	102 x 70C US 626		Or equal			
echanical echanical	HVAC Units  Duct liner	Standard Standard	Per plans or equal Johns Manville	1T/200sf in exercise floor. MUST consider so Permacote Linacoustic	ound walls for duct layout. Standard recta	ngular box duct with liner acceptable	HVAC Units per plan or equal approved by M Or equal	echanical Engineer		
echanical	Washer	Standard	Utility Room	Maytag	MVWP575GW	White	Confirm ADA not required		Maytag MVWP575G Washer.pdf	11/1
echanical	Dryer	Standard	Utility Room	Maytag	MEDP575GW	White	Confirm ADA not required		Maytag MEDP575GW Dryer.pdf	11/1
echanical rywall	Thermostat  Sound caulk at sound walls	Standard Standard	Must NOT be mounted on rear  Sound seal	wall within logo design (if Tstat is to be located of OSI	on rear wall of exercise floor)   SC-175	Required at sound separation walls	Or equal	1		
ywall	Sound mat at sound walls	Standard	Top track	Wallmat-Ari Lesser ari@bfiacoustics.com	3" with KAI rubber bushing	ONLY REQUIRED at sound separatio	n wall IF TENANT ABOVE		michael@bfiacoustics.com	
rywall	Sound mat at sound walls	Alternate	`	k Wallmat-Ari Lesser ari@bfiacoustics.com	3" with KAI rubber bushing	ONLY REQUIRED at sound separatio	n wall IF SPACE BELOW		michael@bfiacoustics.com	
int	All areas	Standard	Doors, door & window frames, columns	Sherwin Williams	SW6545 Majestic Purple semi-gloss		Purple	<u> </u>		10/11
nint	Bathrooms	Standard	Bathroom walls/ceiling	Sherwin Williams	SW7005 Pure White semi-gloss		White			
aint aint	All areas All areas	Standard Standard	All other walls  Exposed deck and steel	Sherwin Williams Sherwin Williams	SW7005 Pure White eggshell Dry fog white flat	Include exposed steel at K-13 spray	White Fog white	<u> </u>		
aint aint	Interior Columns	Standard	All areas-per plan	Sherwin Williams Sherwin Williams	SW6545 Majestic Purple semi-gloss	include exposed sieel at K-13 spray	Fog white			1
aint	All areas	Alternate	Exposed ductwork and sprinkle		DTM white per SW specs	Alternate based on owner decision				11/9
			piping		mile per o n speed					11/3
eiling Type eiling Tile	Open to Deck-see below when drop cei ONLY WHEN REQ'D-Acoustical Tile		Workout Area, office	Armstrong	Cirrus High NRC 563	All offices, workout only when required	d Office when deck is above 14'			
eiling Tile	ONLY WHEN REQ'D-Acoustical Tile	Standard	Workout Area, office	USG	Millennia High NRC 76505	All offices, workout only when required	d Office when deck is above 14'			
coustics	Acoustical Spray	Standard Standard	Workout Area Center in POD 2 as possible	International Cellulose Attachment Bolts	K-13 - white 1/2" x 3 1/2" lag bolts with flat washers	Or approved equal	1" coating on decking  Bolts that come with the bars are too short			10/11
45 Equipment	Chin up bars Wall Anchors	Standard Standard	Center in POD 2 as possible	Attachment Bolts Attachment Bolts	1/2" x 3 1/2" lag bolts with flat washers 3/8" x 3 1/2" lag bolts with flat washers		Bolts that come with the bars are too short  Bolts that come with the anchors are too short			10/11/ 11/9/
45 Equipment	wan Anchors			•					•	_, _,

1138 NE Douglas Rd., Lee's Summit, MO 64086

.45 ee's Summi

Date: 12/30/22 Issued For:

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No. Date Des



PROJECT TEAM

CHITECT MOMENTUM
ARCHITECTURE+DESIGN

STRUCTURAL

MECHANICAL 5BY5 ENGINEERS

ELECTRICAL 5BY5 ENGINEERS

FIRE PROTECTION

CONTRACTOR HAWTHORN PROJECTS

MECTURE+DESIGN

KS - MO Commercial & Residential

\_\_\_\_ NO.

A11<sub>.0</sub>

## ANNOTATION LEGEND:

ABC-1 EQUIPMENT / FIXTURE TAG

PLAN NOTE

CONNECT TO EXISTING

 $\longrightarrow$  AIR FLOW DIRECTION

S-1 G/R/D TAG 8ø NECK SIZE

8ø NECK SIZE 300 AIR FLOW (CFM)

## ABBREVIATIONS LEGEND:

F ABOVE FINISHED FLOOR PD AIR PRESSURE DROP

BAS BUILDING AUTOMATION SYSTEM

CAV CONSTANT AIR VOLUME

CFM CUBIC FEET PER MINUTE
(E) EXISTING

EXHAUST AIR
T ENTERING AIR TEMPERATURE

EF EXHAUST FAN EG EXHAUST GRILLE

ESP EXTERNAL STATIC PRESSURE FPM FEET PER MINUTE

HC HEATING CAPACITY
HP HORSEPOWER

HUM HUMIDIFIER
IN.WG INCHES WATER GAUGE

AT LEAVING AIR TEMPERATURE
AX MAXIMUM

MBH 1,000 BTUH MIN MINIMUM

NOISE CRITERIA
OUTDOOR AIR

Y QUANTITY RETURN AIR

REFR REFRIGERANT

RETURN GRILLE
U ROOFTOP UNIT

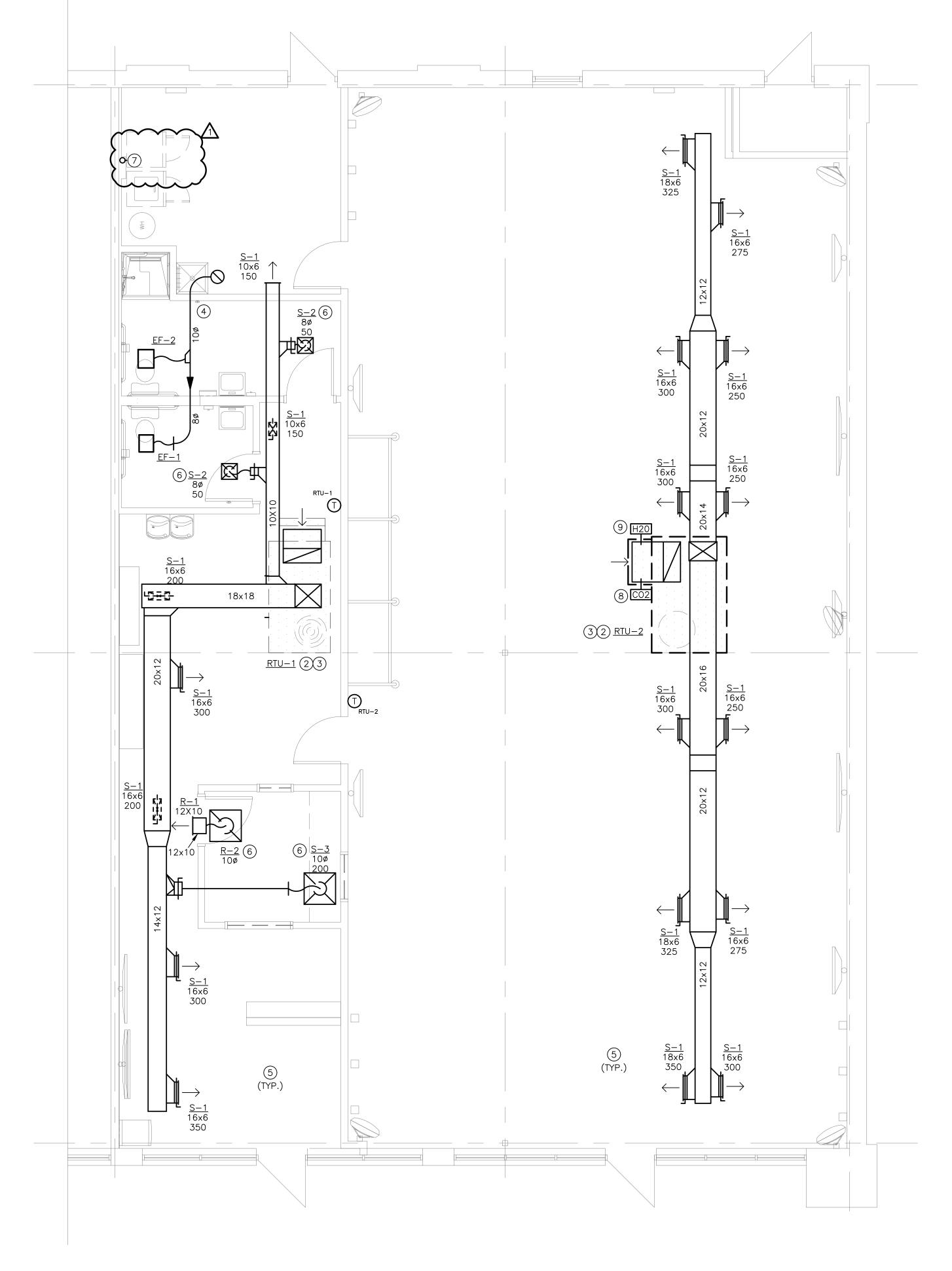
SUPPLY AIR

C SENSIBLE COOLING CAPACITY

SUPPLY DIFFUSER
TOTAL COOLING CAPACITY

RA TO ROOF ABOVE
SP TOTAL STATIC PRESSURE

VEL VELOCITY



 $\frac{\text{MECHANICAL HVAC PLAN}}{\text{SCALE: 1/4" = 1'-0"}}$ 



## <u>MECHANICAL PLAN NOTES:</u>

1. LOCATE RTU-2 WHERE SHOWN AT LOCATION OF EXISTING ROOF CURB. REUSE EXISTING ROOF PENETRATIONS WHERE POSSIBLE. COORDINATE WITH ROOFING CONTRACTOR TO MAINTAIN ROOF WARRANTY. CONTRACTOR OPTION: IF FEASIBLE, PROVIDE A CURB ADAPTER TO REUSE EXISTING ROOF CURB.

 EXISTING ROOFTOP UNIT TO REMAIN IN USE. VERIFY PROPER OPERATION AND REPORT ANY DEFICIENCIES TO OWNER. REFER TO EXISTING ROOFTOP UNIT SCHEDULE FOR TEST AND BALANCE REQUIREMENTS.

3. EXTEND SUPPLY AND RETURN AIR DROPS FROM RTU TO BELOW STRUCTURE. PROVIDE A RETURN AIR ELBOW FULL—SIZE OF RTU OPENING FOR RETURN. ELBOW DUCT FOR NOISE ATTENUATION. PROVIDE 1/2" ALUMINUM MESH GRILLE FULL SIZE OF RETURN ELBOW OPENING.

4. COMBINE EXHAUST DUCT FROM EF-1 AND EF-2. ROUTE 10"Ø EXHAUST DUCT THROUGH ROOF WHERE SHOWN. PROVIDE ROOF PENETRATION AND TERMINATE IN GOOSENECK PER MANUFACTURER'S RECOMMENDATIONS. LOCATE DISCHARGE AT MINIMUM OF 10'-0" FROM ANY BUILDING OPENINGS, OUTDOOR AIR INTAKES OR FIRE SEPARATIONS.

5. PROVIDE BALANCING DAMPERS IN ALL DUCT TAKEOFFS.

6. LOCATE AIR DEVICE IN CEILING WHERE SHOWN.

COORDINATE WITH REFLECTED CEILING PLAN.

7. ROUTE DRYER EXHAUST IN WALL UP THROUGH ROOF.
DRYER EXHAUST DUCTWORK SHALL BE CONSTRUCTED OF
ALUMINUM, NO LESS THAN 0.016 INCHES THICK, WITH A
SMOOTH INTERIOR FINISH. EXHAUST DUCT SIZE SHALL BE
4 INCHES NOMINAL IN DIAMETER. DRYER EXHAUST DUCT
SHALL BE INSTALLED IN ACCORDANCE WITH IMC 504.2,
504.4, 504.8.1, AND 504.8.2. PROVIDE BUILDING
CONSTRUCTION WITH DRYWALL AND METAL STUDS AROUND
DRYER EXHAUST SUCH THAT DRYER EXHAUST IS NOT
EXPOSED TO RETURN AIR PLENUM. PROVIDE GOOSE NECK
FOR ROOF EXHAUST. PROVIDE DRYER BOX BEHIND DRYER
IN WALL.

8. CO2 SENSOR FURNISHED WITH ROOFTOP UNIT BY MANUFACTURER FOR DEMAND CONTROL VENTILATION. INSTALL IN RETURN AIR DUCT AND WIRE BACK TO CONTROLLER. REFER TO RTU MANUFACTURER'S INSTALLATION INSTRUCTIONS.

9. H20 SENSOR FURNISHED WITH ROOFTOP UNIT BY MANUFACTURER FOR DEHUMIDIFICATION CONTROL SEQUENCE. INSTALL IN RETURN AIR DUCT AND WIRE BACK TO CONTROLLER. REFER TO RTU MANUFACTURER'S INSTALLATION INSTRUCTIONS.

e Located

1138 NE Douglas S ee's Summit, MO 6

+C e's Summ

Date: 03/08/23 Issued \_ 5

Issued For Permit

REVISIONS

No. Date Description

1. 3.17.23 CITY REVIEW



PROJECT TEAM

ARCHITECT MOMENTUM ARCHITECTURE+DESIGN

MECHANICAL 5BY5 ENGINEERS
PLUMBING 5BY5 ENGINEERS

ELECTRICAL 5BY5 ENGINEERS

CONTRACTOR HAWTHORN PROJECTS

Hansas City, MO 6
Kansas City, MO 6
Kansas COA: E-23
913-689-9449
contact@5by5eng.com

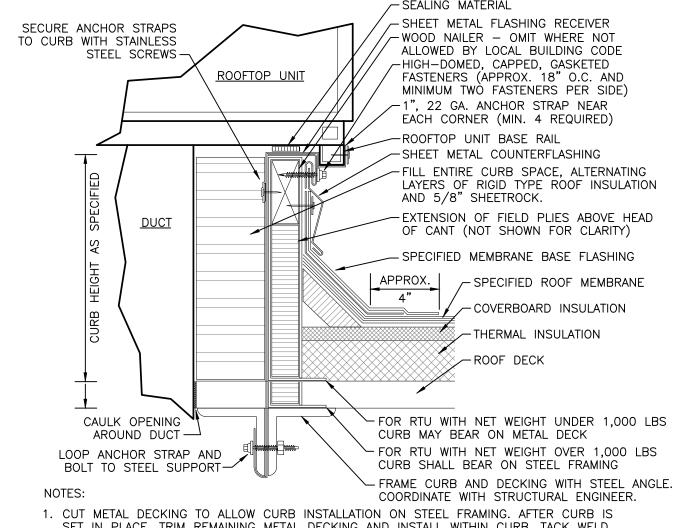
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#### MECHANICAL GENERAL NOTES:

- DRAWINGS ARE SCHEMATIC IN NATURE AND BASED ON PRELIMINARY SITE OBSERVATION AND ORIGINAL DESIGN DRAWINGS (WHEN AVAILABLE). CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE AND BECOME FULLY AWARE OF ALL FIELD CONDITIONS, CURRENT SYSTEM OPERATION, AS WELL AS COORDINATION REQUIREMENTS. COORDINATE ALL MECHANICAL WORK WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS, AND OTHER TRADES PRIOR TO START OF WORK.
- MECHANICAL WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- COORDINATE WITH ELECTRICAL CONTRACTOR FOR REQUIRED ELECTRICAL POWER WIRING AND ROUGH-IN FOR LOW-VOLTAGE CONTROL WIRING. PROVIDE ALL CONTROL WIRING AND FINAL CONTROL DEVICE (E.G. THERMOSTATS).
- FABRICATE AND INSTALL DUCTWORK PER SMACNA RECOMMENDATIONS FOR THE PRESSURE CLASSIFICATIONS
- •• LOW PRESSURE SUPPLY AIR: +2.0 IN.WG
- •• RETURN AIR: −2.0 IN.WG •• EXHAUST AIR (UPSTREAM OF FAN): -2.0 IN.WG
- PROVIDE MITERED ELBOWS AT CHANGES IN DIRECTION IN RECTANGULAR DUCTWORK. PROVIDE TURNING VANES IN ALL ELBOWS WHERE AIRFLOW CHANGES DIRECTION AT ANGLES 45° AND GREATER, EXCEPT FOR RETURN AIR TRANSFER DUCTS.
- PROVIDE ALL CONDENSATE DRAINS FOR EQUIPMENT THAT GENERATES CONDENSATE. COORDINATE WITH PLUMBING CONTRACTOR.
- PROVIDE DUCT WRAP INSULATION FOR ALL ROUND AND RECTANGULAR SUPPLY AIR DUCTWORK. DUCT WRAP INSULATION SHALL BE 2" THICK, MINIMUM R-6.0 FIBERGLASS DUCT WRAP WITH VAPOR BARRIER.
- CONTRACTOR OPTION: PROVIDE INTERNAL LINER INSULATION FOR SUPPLY AIR DUCTWORK. INTERNAL LINER INSULATION SHALL BE 1" THICK, 2 LB/FT3 ACOUSTICAL DUCT LINER INSULATION WITH MINIMUM R-6.0.
- PROVIDE INTERNAL LINER INSULATION FOR ALL RECTANGULAR RETURN AIR TRANSFER DUCTWORK. INTERNAL LINER INSULATION SHALL BE 1" THICK, 2 LB/FT3 ACOUSTICAL DUCT LINER INSULATION.
- ALL LOW PRESSURE BRANCH DUCTWORK SERVING DIFFUSERS, REGISTERS AND GRILLES (GRD) SHALL BE THE SAME SIZE AS THE GRD'S NECK SIZE UNLESS NOTED OTHERWISE.
- DUCT DIMENSIONS SHOWN ON THE PLANS INDICATE THE FREE AREA DIMENSIONS. INCREASE SHEET METAL DIMENSIONS AS REQUIRED TO MEET FREE AREA DIMENSIONS WITH LINER INSTALLED.
- FLEXIBLE DUCTWORK SHALL HAVE 2" THICK, MINIMUM R-6.0 INSULATION. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH FOR SUPPLY AIR APPLICATIONS AND 3'-0" IN LENGTH FOR RETURN AIR AND EXHAUST AIR APPLICATIONS.
- PROVIDE BALANCING DAMPERS IN DUCT TAKE-OFFS TO AIR DEVICES IN LAY-IN CEILINGS, IN THE NECKS OF AIR DEVICES IN GYP BOARD CEILINGS, AND IN THE NECKS OF SIDE WALL AIR DEVICES FOR PROPER AIR BALANCING.
- TOILET ROOM EXHAUST FANS SHALL BE AS SCHEDULED. PROVIDE A MINIMUM OF 75 CFM EXHAUST PER FLUSH
- COORDINATE ALL REQUIRED ROOF PENETRATIONS WITH ROOFING CONTRACTOR TO AVOID ROOF WARRANTY
- VERIFY AVAILABLE SPACE ABOVE ALL CEILINGS PRIOR TO FABRICATION OR INSTALLATION OF ANY DUCTWORK. COORDINATE DUCT INSTALLATION WITH OTHER TRADES.
- · ALL DIMENSIONS SHOWN ON PLAN ARE IN INCHES, UNLESS EXPLICITLY LABELED OTHERWISE.
- PROVIDE A COMPLETE TEST AND BALANCE BY A NEBB CERTIFIED TEST AND BALANCE AGENCY.
- PROVIDE ACCESS PANELS AND ADEQUATE CLEARANCE FOR ACCESS TO ALL EQUIPMENT, VALVES, DAMPERS AND DEVICES.
- INSPECT ALL EXISTING MECHANICAL EQUIPMENT TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK.
- LABEL ALL DUCTWORK, PIPING, MAINTENANCE DEVICES, AND EQUIPMENT WITH MANUFACTURER STANDARD LABELING SYSTEMS. COORDINATE WITH OWNER FOR FINAL EQUIPMENT DESIGNATIONS.
- PROVIDE O&M MANUAL TO OWNER UPON COMPLETION OF PROJECT.

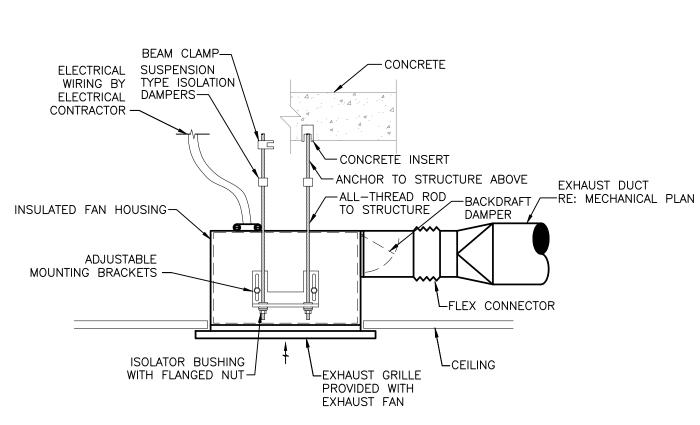
	ROOFTOP UNIT SCHEDULE																																				
					SUPPLY	FAN		O/A	FLOW					COOLING	COIL (DX)							Н	OT GAS RE	HEAT CO	L				HEATIN	G COIL (N	ATURAL G	AS)		ELEC	TRICAL	WEICHT	
TAG	AREA SERVED	MANUFACTURER	MODEL	FAN	S/A FLOW	MOTOR	ESP	DCV MIN	DCV MAX	NOM	REFR	TC	SC	EAT	L	AT	MIN	EFF	STAGES	TC	SC	CLG CC	OIL EAT	IGR COIL	LAT S	TAGES	OAT N	NOM INPUT	HC	EAT	LAT	MIN EFF	STAGES	. \//DU   \$	ACA NAOCE	WEIGHT (LBS)	NOTES
				CONTROL	(CFM)	(HP)	(IN.WG)	(CFM)	(CFM)	TONS	TYPE	(MBH) (	MBH) (	°F DB) (°F W	3) (°F DB)	(°F WB)	(EER)	(SEER)	(QTY)	(MBH)	(MBH)	(°F DB)	(°F WB) (°	F DB) (°I	WB) (	(QTY) (	°F DB)	(CFH)	(MBH)	(°F DB)	(°F DB)	(%)	(QTY)	V/PH IV	ACA MOCP	(LDS)	
RTU-1	COMMON AREA	LENNOX	ETR	STAGED	2,400		0.9	200	200	6	R-410A	74.0	72.0	80.0 67.0	52.4	50.9			2									150.0	120.0	61.4	107.5	80	2	208/3			N
RTU-2	FITNESS AREA	YORK OR EQUAL	ZYG12	STAGED	3,500	5.3	1.0	600	300	10	R-410A	123.4	90.6	80.0 67.0	56.1	54.6	12.0	14.6	2	54.9	12.6	75.0	67.0	72.1	3.0	1	85.0	220.0	176.0	55.5	101.9	80	2	208/3 5	3.3 60	1,222	A-M

- A. PROVIDE WITH CONTROLLER AND CONTROL DEVICES BY MANUFACTURER. REFER TO SEQUENCES OF OPERATION.
- B. PROVIDE WITH WI-FI COMPATIBLE 7-DAY PROGRAMMABLE THERMOSTAT.
- PROVIDE WITH FIXED DRY BULB TYPE ECONOMIZER ASSEMBLY.
- D. PROVIDE WITH MANUFACTURER'S BAROMETRIC RELIEF DAMPER AND HOOD ASSEMBLY.
- E.  $\,$  PROVIDE WITH MANUFACTURER'S STANDARD INSULATED ROOF CURB WITH 1'-2" MINIMUM HEIGHT.
- . PROVIDE WITH DUCT-MOUNTED RETURN AIR HUMIDITY SENSOR FOR DEHUMIDIFICATION CONTROL SEQUENCE. G. PROVIDE WITH DUCT-MOUNTED CARBON DIOXIDE SENSOR FOR DEMAND CONTROL VENTILATION (DCV) SEQUENCE
- H. PROVIDE WITH NON-POWERED WEATHER-PROOF DUPLEX RECEPTACLE.
- PROVIDE WITH 2" THICK, MINIMUM MERV-8 FILTERS.
- PROVIDE WITH FACTORY-MOUNTED RETURN AIR SMOKE DETECTOR.
- K. PROVIDE WITH CONDENSER COIL GUARDS.
- . ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH. M. UNIT SIZED FOR 100°F AMBIENT CONDENSING TEMPERATURE.
- N. EXISTING UNIT TO REMAIN. CONTRACTOR TO VERIFY PROPER OPERATION AND REPORT ANY DEFICIENCIES TO OWNER.

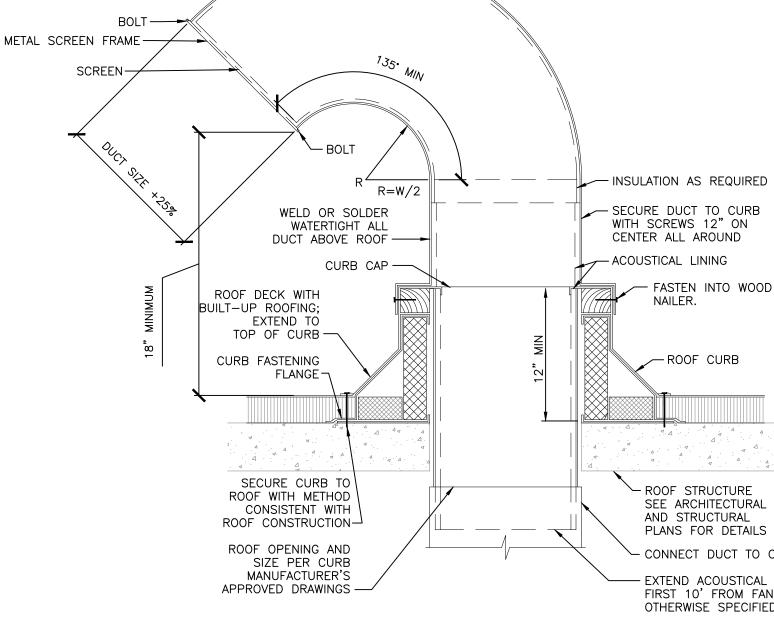


SET IN PLACE, TRIM REMAINING METAL DECKING AND INSTALL WITHIN CURB. TACK WELD DECKING TO SUPPORT STEEL. DO NOT WELD INTERIOR DECKING TO ROOF CURB. PROVIDE ADDITIONAL CROSS FRAMING TO SUPPORT INTERIOR DECKING AND FILL MATERIAL AS REQUIRED.

2. LOCATE ANCHOR STRAPS NEAR EACH OF FOUR UNIT CORNER POINTS. SECURE STRAPS TO JOISTS OR FRAMING ANGLE. KEEP STRAP AS TIGHT AS POSSIBLE.



CEILING MOUNTED EXHAUST FAN DETAIL



1. SPUD BACK GRAVEL A MINIMUM OF 30" IN ALL DIRECTIONS. FLASH WITH 90# MINERAL FACED BASED FLASHING. STRIP WITH THREE LAYERS OF ROOFING FELT EMBEDDED IN HOT ASPHALT. GRAVEL TO MATCH.

SUPPLY AIR REGISTER DETAIL SCALE: NTS

1. EXTEND HARD METAL DUCT SO THAT MAXIMUM FLEXIBLE DUCT LENGTH DOES NOT EXCEED 5'-0". PROVIDE RIGID 90" ELBOW WHERE REQUIRED TO KEEP FLEXIBLE

METAL BAND OVER INSULATION (TYPICAL) ----

HIGH EFFICIENCY TAKEOFF EXTERNALLY

INSULATED WITH VOLUME DAMPER AND

SEE NOTE 1.-

PRE-INSULATED FLEXIBLE DUCT AS REQUIRED,

SEALED AND SUPPORTED

1" METAL BAND (TYPICAL)-

CEILING DIFFUSER WITH

VOLUME DAMPER, FIRE

VOLUME/FIRE DAMPER

DAMPER OR COMBINATION

PROVIDE WITH MINIMUM

6 SCREWS (EVERY 60°)

AS SCHEDULED-

DUCT WITHIN 5'-0" LENGTH LIMITATION.

INSTALL PERMANENTLY

TO PREVENT KINKING

AND SHARP TURNS -

DAMPER LOCK WITH EXTENSION -

FOR FIRE RATED

CEILINGS. PROVIDE

TO COMPLETELY

COVER DIFFUSER

CONE WITH FIBER

REINFORCED FOIL

BACKTAPE

FIRE RATED JACKET

CONE. SEAL FOIL TO

CEILING

INSULATED DUCT -



NAILER.

-ROOF CURB

SEE ARCHITECTURAL

PLANS FOR DETAILS

CONNECT DUCT TO CURB

EXTEND ACOUSTICAL LINER

OTHERWISE SPECIFIED

FIRST 10' FROM FAN OR AS

AND STRUCTURAL

GRILLES, REGISTERS AND DIFFUSERS								
TAG	MANUFACTURER	MODEL	MOUNTING	FACE SIZE	MAX NC	MAX DP	NOTES	
S-1	PRICE	520	WALL/DUCT	SEE PLAN	30	0.1	A,C,D,E,F,G	
S-2	PRICE	SCD	CEILING	12x12	30	0.1	A,B,C,F,G	
S-3	PRICE	SCD	CEILING	24x24	30	0.1	A,B,C,F	
R-1	PRICE	PDDR	CEILING	24x24	30	0.1	C,F	
R-2	PRICE	530	WALL	SEE PLAN	30	0.1	A,C,D,G	

- A. NECK SIZE SHOWN ON PLANS.
- B. 4 WAY THROW UNLESS INDICATED OTHERWISE ON PLANS.
- BAKED ENAMEL FINISH, WHITE TO MATCH CEILING/WALL COLOR. VERIFY WITH ARCHITECT PRIOR TO ORDER.
- ). FRONT BLADES PARALLEL TO HORIZONTAL DIMENSION. VERIFY WITH PLANS.
- . PROVIDE DOUBLE DEFLECTION BARS THAT ARE ADJUSTABLE
- FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- G. PROVIDE OPPOSED BLADE DAMPER THAT IS ADJUSTABLE FROM THE FACE OF THE DEVICE.

FAN SCHEDULE											
ADEA CEDVED	MANULEACTURER	MODEL	NACHINITINIC	AIR FLOW	ESP	MOTOR	DRIVE	V/DII	NOT		
AREA SERVED	MANUFACTURER	MODEL	MOUNTING	(CFM)	(IN.WG)	POWER	TYPE	V/PH I	NOTI		
RESTROOM	GREENHECK	SP-A125	CEILING	100	0.25	20 WATTS	DIRECT	120/1	ALL		
RESTROOM, SHOWER	GREENHECK	CSP-A200	CEILING	200	0.25	133 WATTS	DIRECT	120/1	ALL		
	RESTROOM,	RESTROOM GREENHECK RESTROOM, GREENHECK	AREA SERVED MANUFACTURER MODEL RESTROOM GREENHECK SP-A125 RESTROOM, GREENHECK CSP-A200	AREA SERVED MANUFACTURER MODEL MOUNTING RESTROOM GREENHECK SP-A125 CEILING RESTROOM, GREENHECK CSP-A200 CEILING	AREA SERVED MANUFACTURER MODEL MOUNTING (CFM)  RESTROOM GREENHECK SP-A125 CEILING 100  RESTROOM, GREENHECK CSP-A200 CEILING 200	AREA SERVED  MANUFACTURER  MODEL  MOUNTING  (CFM)  (IN.WG)  RESTROOM,  GREENHECK  CSP-A200  CEILING  200  0.25	AREA SERVED  MANUFACTURER  MODEL  MOUNTING  AIR FLOW ESP (IN.WG) POWER  (CFM) (IN.WG) POWER  RESTROOM,  GREENHECK CSP-A200 CEILING 200 0.25 133 WATTS	AREA SERVED MANUFACTURER MODEL MOUNTING CFM) (IN.WG) POWER TYPE  RESTROOM GREENHECK SP-A125 CEILING 100 0.25 20 WATTS DIRECT  RESTROOM, GREENHECK CSP-A200 CEILING 200 0.25 133 WATTS DIRECT	AREA SERVED MANUFACTURER MODEL MOUNTING CFM) (IN.WG) POWER TYPE V/PH (IN.WG) POWER TYPE V/PH (IN.WG) POWER TYPE TYPE TYPE TYPE TYPE TYPE TYPE TYPE		

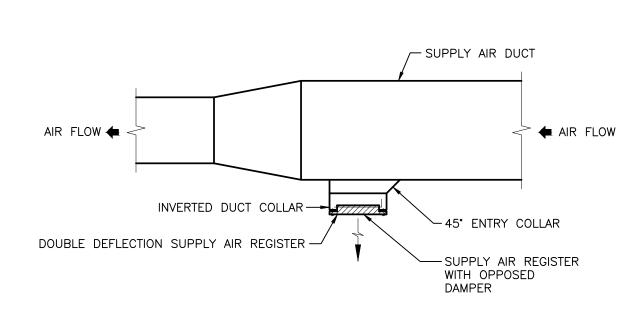
- . PROVIDE WITH MANUFACTURER'S STANDARD HANGING KIT AND CEILING MOUNT TRIM.
- B. PROVIDE WITH DISCONNECT SWITCH. . PROVIDE WITH BACKDRAFT DAMPER.
- D. PROVIDE WITH MANUFACTURER'S STANDARD ROOF CURB AND GOOSENECK.
- . INTERLOCK FAN WITH ASSOCIATED RESTROOM LIGHT SWITCH

OUTSIDE AIR CALCULATIONS									
OCCUPANCY CLASSIFICATION	AREA (FT <sup>2</sup> )	OCCUPANTS (QTY)	R <sub>P</sub> (CFM/PERSON)	MIN OCCUPANT O/A FLOW (CFM)	R <sub>A</sub> (CFM/FT <sup>2</sup> )	MIN AREA O/A FLOW (CFM)	CFM TOTAL		
HEALTH CLUB/WEIGHT ROOM	2107	22	20	440	0.06	126	560		
RECEPTION	302	10	5	50	0.06	18	68		
ENTRY LOBBY	220	3	5	15	0.06	13	28		
OFFICE	72	1	5	5	0.06	4			
					REQUIRE	D OA CFM =	672		
				PROVIDE	D DCV MA	X OA CFM =	800		
				PROVIDE	ED DCV MII	N OA CFM =	500		

A. R<sub>P</sub> REPRESENTS PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE PER TABLE 403.3.

B. RA REPRESENTS AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE PER TABLE 403.3.

CALCULATIONS PER 2018 INTERNATIONAL MECHANICAL CODE



Date: 12/30/22

Issued STEP 1 FOR For: REVIEW

**REVISIONS** No. Date Description

E-2001011619 000

PROJECT TEAM MOMENTUM ARCHITECTURE+DESIGN ARCHITECT 5BY5 ENGINEERS MECHANICAL

THOMAS J. ELLIS JR.

MO LICENSE # E-2001011619

**5BY5 ENGINEERS** 5BY5 ENGINEERS

CONTRACTOR HAWTHORN PROJECTS

GIN

### LINETYPES LEGEND:

----- NEW - ABOVE SLAB --- NEW - BELOW SLAB

----- EXISTING - ABOVE SLAB

---- Existing - Below slab ---- DEMOLITION

## PIPING LEGEND:

**G**→ ELBOW DOWN

O-→ ELBOW UP

**C**→ P-TRAP

 $\leftarrow$  TEE DOWN

⊱**-O**--> ELBOW UP

BALL → BALL VALVE

GLOBE CLOBE VALVE

BFLY → BUTTERFLY VALVE

GATE CATE VALVE

→ BALANCING VALVE

→ PRESSURE REDUCING VALVE

**⊢IŽI**→ GAS COCK

**├**₩YE-STRAINER

→ I

→ UNION

**⊢**I⊢ FLANGE

**₹** RELIEF VALVE

M/A ← AIR VENT (MANUAL / AUTOMATIC)

→ FLOW DIRECTION

← PIPE BREAK / CONTINUATION

FLOOR DRAIN

FLOOR SINK

FLOOR CLEANOUT + HOSE BIBB

## ANNOTATION LEGEND:

ABC-1 EQUIPMENT / FIXTURE TAG

PLAN NOTE

CONNECT TO EXISTING

## ABBREVIATIONS LEGEND:

ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE BOP BT BOTTOM OF PIPE

BATHTUB CUBIC FEET PER HOUR CFH

CO CLEANOUT

DOMESTIC COLD WATER DRINKING FOUNTAIN

DOWN DSN DOWNSPOUT NOZZLE

**EXISTING** EXPANSION TANK

ELECTRIC WATER COOLER EYE WASH STATION

FCO FLOOR CLEANOUT FLOOR DRAIN

FD FINISHED FLOOR

FROM FLOOR ABOVE FFB FROM FLOOR BELOW

FS FLOOR SINK GREASE INTERCEPTOR

GPM GALLONS PER MINUTE

HOSE BIBB

HORSEPOWER

HB

HWR HOT WATER RECIRCULATION INVERT ELEVATION

IN.WG INCHES WATER GAUGE JANITOR SINK

LINT INTERCEPTOR LAUNDRY SINK

LV LAVATORY

MAX MAXIMUM MB MOP BASIN

1,000 BTUH

MIN MINIMUM NG NATURAL GAS

NHB NON-FREEZE HOSE BIBB NRH

NON-FREEZE ROOF HYDRANT OD OVERFLOW ROOF DRAIN

QTY QUANTITY ROOF DRAIN

RECIRCULATION PUMP REDUCED PRESSURE ZONE BACKFLOW PREVENTER SANITARY WASTE

SK SERVICE SINK

SHOWER

SEWAGE PUMP TRENCH DRAIN

TO FLOOR ABOVE

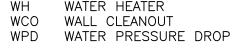
TFB TO FLOOR BELOW TMV THERMOSTATIC MIXING VALVE

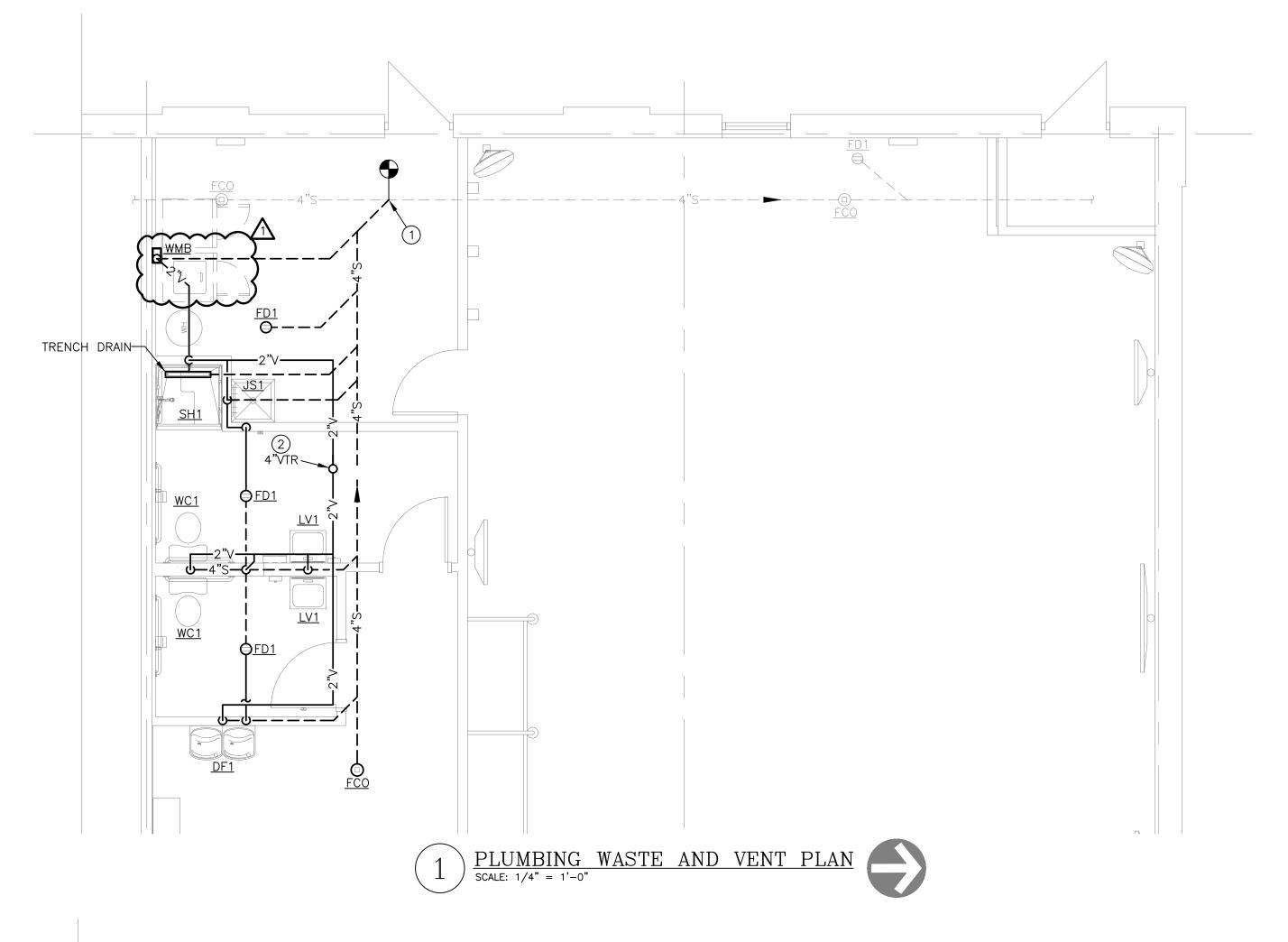
TRA TO ROOF ABOVE TSP TOTAL STATIC PRESSURE

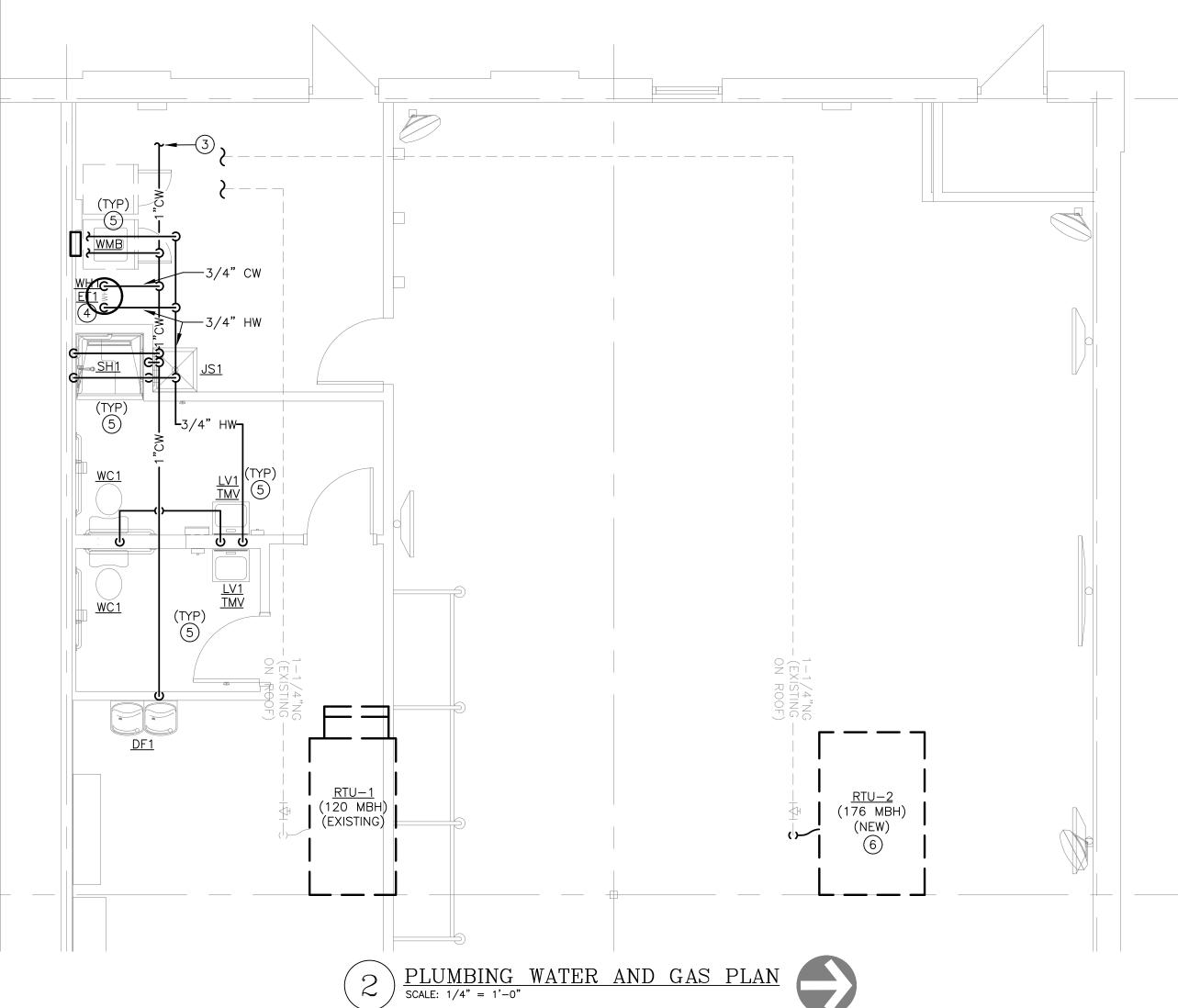
UR URINAL

VENT WC WATER CLOSET

WATER HEATER







## — PLUMBING PLAN NOTES:

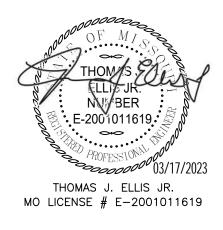
- 1. EXTEND NEW 4" SANITARY SEWER TO EXISTING BUILDING SANITARY SEWER. FIELD VERIFY EXACT LOCATION AND FLOW DIRECTION PRIOR TO START OF WORK.
- 2. PROVIDE NEW 4" VENT THROUGH ROOF (VTR) WHERE SHOWN. MAINTAIN A MINIMUM OF 10'-0" FROM ANY OUTDOOR AIR INTAKE OR BUILDING OPENING. RE-USE EXISTING VENT IF POSSIBLE.
- 3. EXTEND NEW 1" DOMESTIC WATER LINE FROM EXISTING BUILDING WATER SUPPLY TO SERVE REMODEL. PROVIDE ISOLATION BALL VALVE AT CONNECTION TO BUILDING MAIN. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK.
- 4. LOCATE WATER HEATER ABOVE JANITOR'S SINK ON SHELF. CONNECT WATER PIPING AND EXPANSION TANK TO WATER HEATER SYSTEM PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO DETAIL ON SHEET P2.0 FOR ADDITIONAL INFORMATION.
- 5. EXTEND COLD WATER AND HOT WATER TO PLUMBING FIXTURES INDICATED. MAKE FINAL CONNECTIONS PER PLUMBING FIXTURE CONNECTION SCHEDULE.
- 6. RE-CONNECT NATURAL GAS TO NEW ROOFTOP UNIT AS SHOWN. PROVIDE DIRT LEG AND GAS COCK AT ROOFTOP UNIT CONNECTION. REFER TO ROOFTOP UNIT INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS. COORDINATE WITH HVAC CONTRACTOR.

Douglas nmit, MO

Date: 03/08/23

For Permit For:

REVISIONS No. Date Description 1. 3.17.23 CITY REVIEW



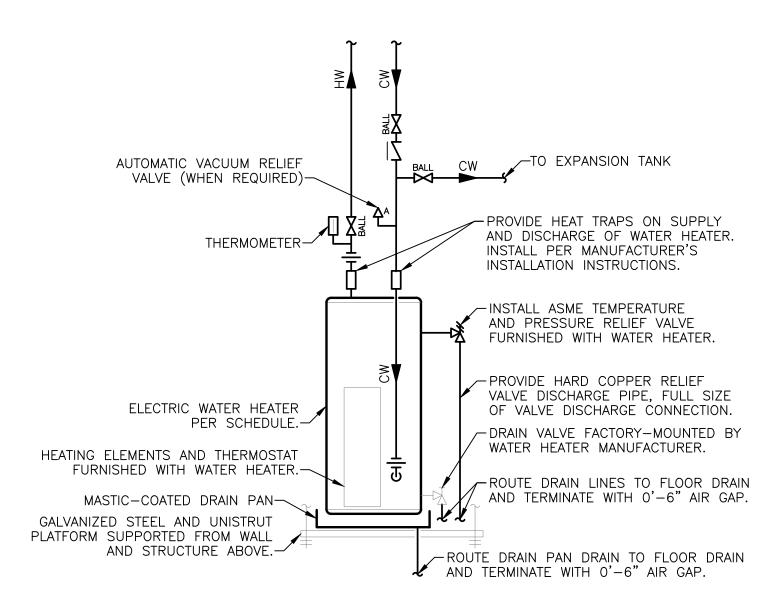
PROJECT TEAM

MOMENTUM ARCHITECTURE+DESIGN ARCHITECT 5BY5 ENGINEERS MECHANICAL

5BY5 ENGINEERS ELECTRICAL 5BY5 ENGINEERS

CONTRACTOR HAWTHORN PROJECTS

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### NOTES:

 STRUCTURE AND PLATFORM SHALL BE DESIGNED TO HOLD THE MAXIMUM WEIGHT OF THE WATER HEATER. CONFIRM CAPACITY OF SHELF WITH MANUFACTURER PRIOR TO INSTALLATION.

WATER HEATER DETAIL

STRUCTURE (TYP) -	_		
THREADED STEEL ROD WITH NUT AND WASHER BOTH SIDES (TYP)			
CLEVIS HANGER, SHOWN FOR CLARITY. SIZE HANGER FOR COLD PIPE OUTSIDE DIAMETER PLUS INSULATION THICKNESS. DO NOT PENETRATE INSULATION WITH HANGER			- CLEVIS HANGER, SHOWN FOR CLARITY. SIZE HANGER FOR HOT PIPE OUTSIDE DIAMETER.
PROVIDE A SECTION OF HIGH DENSITY INSULATION OR STYROFOAM BILLETS AT EACH HANGER OF COLD INSULATED PIPE			- CUT INSULATION TO
PROVIDE SHORT INSULATION SHIELD FOR LAPPING INSULATION JACKET OVER HIGH DENSITY INSULATION OR STYROFOAM BILLETS. MAINTAIN VAPOR BARRIER -	COLD PIPE	HOT PIPE	FIT AROUND HANGER. SEAL EXPOSED INSULATION ENDS WITH JOINT SEALANT
	REFER TO SPECIFICATIONS F INSULATION THICKNESSES, H. CONNECTIONS TO SRUCTURE	ANGER TYPES, HANGER ROD	

<u>INSULATED PIPE HANGER DE</u>TAIL

SECURE PIPE HANGER TO

FIXTURE	WASTE	VENT	COLD	HOT	NOTES
CLOTHES WASHER (RESIDENTIAL)	2"	2"	1/2"	1/2"	VB
DRINKING FOUNTAIN	2"	1-1/2"	1/2"		
FLOOR DRAIN	2"	2"			
JANITOR'S SINK	2"	1-1/2"	1/2"	1/2"	VB
LAVATORY - PUBLIC	2"	1-1/2"	1/2"	1/2"	TMV
SHOWER	2"	1-1/2"	1/2"	1/2"	TMVS
WATER CLOSET (TANK TYPE)	4"	2"	1/2"		

EQUIPMENT	QTY	DESCRIPTION	CFH INPUT	TOTAL CFH
TAG	QI I	DESCRIPTION	(EACH)	TOTAL CFH
RTU-1	1	ROOFTOP UNIT	90	90
RTU-2	1	ROOFTOP UNIT	176	176
		***************************************		

SYSTEM TOTAL =

NATURAL GAS LOAD SCHEDULE

A. METER DISCHARGE PRESSURE: 11 IN.WG.

B. TOTAL DEVELOPED LENGTH: 350 FT.

C. DESIGN NATURAL GAS PIPING SYSTEM PRESSURE DROP: 0.5 IN.WG D. INLET PRESSURE FOR ALL GAS-FIRED EQUIPMENT: 7 TO 11 IN.WG.

INSTALL BACKFLOW PREVENTION DEVICES ON EQUIPMENT AND FIXTURES PER LOCAL WATER COMPANY REQUIREMENTS. ALL BACKFLOW PREVENTERS SHALL BE IN AN ACCESSIBLE LOCATION FOR PERIODIC INSPECTION AND TESTING.

RP: REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY, LINE SIZED, CONFORMING TO ASSE 1013.

AG: AIR GAP FITTING AS PROVIDED BY MANUFACTURER.

DCV: DOUBLE CHECK VALVE ASSEMBLY, LINE SIZED, CONFORMING TO ASSE 1015.

TMV: POINT OF USE TYPE THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070.

DCVB: DOUBLE CHECK VALVE ASSEMBLY, LINE SIZED, CONFORMING TO ASSE 1022.

TMVS: SCALD PROTECTION SHOWER/TUB VALVE, CONFORMING TO ASSE 1016.

VB: ATMOSPHERIC TYPE VACUUM BREAKER CONFORMING TO ASSE 1020.

	MaD Fitness Group			12/08/2022 Update			
	F45 Spec Book		VE all specifica	ations with owner appr	oval		
	All changes/substitutions to l	be approve	d by owner				
Division	<u>Item</u>		Location	<u>MFG</u>	<u>Model</u>	<u>Other</u>	Color/Misc
lumbing	Water Fountain	Standard	Hallway-per plan	Elkay	EXSTL8WS	With Bottle Filler	SS
lumbing	Water Fountain	Alternate	Hallway-per plan	Halsey Taylor	НТНВ-НА	CG8BLSS	SS
lumbing	Sink Wall	Standard	Bathroom	American Standard	Lucerne 0356.041	20 x 18	White
lumbing	Sink Wall	Alternate	Bathroom	Gerber	Monticello II	20 x 18	White
lumbing	Toilet	Standard	Bathroom	Gerber	Pressure assist H/C	Ultra Flush 20-318	White
lumbing	Faucet-Sink	Standard	Bathroom	Moen	8554	Battery powered	Chrome
lumbing	Faucet-Sink	Alternate	Bathroom	American Standard	605B.204/PK00.PAC	Innsbrook Selectronic	SS
lumbing	Shower Hand Held	Standard	Bathroom	Luxart Classico II	LC2SYS60-CP		SS
lumbing	Shower Valve	Standard	Bathroom	Olympia	Temp/Pressure Balanced		SS
lumbing	Mop Floor Sink and Faucet	Standard	Utility	Fiat MSB2424 and 830 AA Faucet		Or equal floor mounted	White
lumbing	Mop Rack	Standard	Utility	Bobrick B-223 Mop holder			SS
lumbing	Water Heater	Standard	Utility- floor/or hung	State 50-Gallon	PCE-50-20LS	50 Gallon	
lumbing	Water Heater	Alternate	Utility- floor/or hung	A O Smith 50-Gallon	DEL 50	50 Gallon	
lumbing	Trench Drain	Standard	Shower	Tru-Line	304 SS with S Style grate	SS	Length by location
lumbing	Trench Drain	Alternate	Shower	Zurn	ZS880	SS	Length by location
lumbing	Washer Box	Standard	Utility	Oatey	Center drain outlet box	38934	White

### PLUMBING FIXTURE SCHEDULE:

INFORMATION BELOW IS FOR GENERAL FIXTURE REQUIREMENTS ONLY. PLUMBING CONTRACTOR SHALL COORDINATE WITH OWNER AND ARCHITECT FOR EXACT FIXTURE REQUIRED FOR THE PROJECT. COORDINATE WITH OWNER FOR INFORMATION ON PROCURING FIXTURES AND ASSOCIATED COSTS. CONTRACTOR SHALL BE CLEAR AS TO WHAT FIXTURES ARE INCLUDED IN THEIR PROPOSED COSTS.

FIXTURES IN THIS SCHEDULE, OR THE APPROVED EQUIVALENT, SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER REQUIREMENTS.

REFER TO TENANT SPEC BOOK SCHEDULE ON THIS SHEET FOR BASIS OF DESIGN FIXTURES AND EQUIPMENT. CONTRACTOR SHALL GET PRE-APPROVAL FROM TENANT PRIOR TO OFFERING SUBSTITUTIONS.

- ELECTRIC WATER COOLER WITH BOTTLE FILLER (ADA ACCESSIBLE): WALL-MOUNTED, BARRIER-FREE, DUAL-LEVEL, FRONT AND SIDE PUSH ACTUATOR BARS, STAINLESS STEEL BOWL, FLEXIBLE POLYESTER ELASTOMER SAFETY BUBBLER AND GALVANIZED STEEL FRONT AND SIDES, BOTTLE FILLING STATION, CHILLER WITH 8.0 GALLONS PER HOUR CAPACITY AT 50°F DRINKING WATER, 80°F INLET WATER, AND 90°F ROOM TEMPERATURE. UNIT SHALL BE LEAD FREE DESIGN AND MEET FEDERAL AND STATE LOW-LEAD
- REQUIREMENTS. • TRIM: QUARTER-TURN BALL TYPE ANGLE STOP VALVE WITH RISER AND ESCUTCHEON, 1-1/4" 17-GAUGE TUBULAR CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT
- PLUG AND ESCUTCHEON. ACCEPTABLE MANUFACTURERS: ELKAY 'EXSTL8WS' OR EQUAL
- HALSEY TAYLOR 'HTHB-HA-CG8BLSS'. • ELECTRICAL REQUIREMENTS: 120V/1ø, 6.0 FLA.
- EXPANSION TANK: 150 PSIG MAXIMUM WORKING PRESSURE. 4.5-GALLON CAPACITY, 0.45 MAXIMUM ACCEPTANCE FACTOR, AND 3/4" PIPE CONNECTION. SET THE AIR CHARGE PRESSURE TO MATCH EXISTING WATER SYSTEM PRESSURE.

#### FLOOR CLEANOUT: CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE, ROUND, SECURED, HEAVY DUTY SCORIATED NICKEL BRONZE TOP. INSTALL PER MANUFACTURER'S REQUIREMENTS BASED ON FLOORING TYPE USED. PROVIDE ACCESSORIES AS REQUIRED FOR PROPER INSTALLATION. COORDINATE FINISH TYPE WITH ARCHITECTURAL PLANS.

- FLOOR DRAIN: BODY MATERIAL TO MATCH CONNECTED PIPING, WITH FLANGE, INTEGRAL REVERSIBLE CLAMPING COLLAR, SEEPAGE OPENINGS, AND 6" NICKEL BRONZE STRAINER WITH VANDAL-PROOF SCREWS. PROVIDE P-TRAP AND WASTE ARM SIZED AS INDICATED ON PLAN.
- ACCESSORIES: PROVIDE TRAP GUARD.

- WALL-MOUNTED LAVATORY (ADA ACCESSIBLE): RECTANGULAR WALL MOUNTED WHITE VITREOUS CHINA FIXTURE WITH FAUCET LEDGE AND FRONT OVERFLOW.
- FAUCET: FAUCET WITH 4" CENTERSET, VANDAL—RESISTANT, WITH LEVER HANDLES AND 0.5 GPM AERATOR.
- FAUCET ACCEPTABLE MANUFACTURER: MOEN #8554 OR AMERICAN
- STANDARD #605B.204/PK00.PAC. TRIM: GRID DRAIN WITH TAILPIECE, QUARTER-TURN BALL TYPE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, 1-1/4" 17-GAUGE TUBULAR CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR, AND
- INSULATION KIT FOR WATER AND WASTE PIPES. ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD LUCERNE '0356.041' OR GERBER 'MONTICELLO II'.
- SHOWER, HAND HELD NOZZLE LUXART CLASSICO II 'LC2SYS60-CP', AND OLYMPIA TEMP/PRESSURE BALANCED VALVE.
- THERMOSTATIC MIXING VALVE: SOLID BRASS BODY, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 2.2 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.5 GPM. MAXIMUM TEMPERATURE STOP SET FOR 110 DEGREES. MOUNT BELOW THE PLUMBING FIXTURE WHERE INDICATED ON PLANS.

- FLOOR-MOUNTED WATER CLOSET (ADA ACCESSIBLE): TANK TYPE WHITE VITREOUS CHINA FIXTURE WITH ELONGATED BOWL, 1.6 GALLON PER FLUSH, SIPHON FLUSH ACTION, AND CLOSE-COUPLED
- TANK WITH TRIP LEVER ON THE WIDE SIDE OF THE STALL. TRIM: WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC. HEAVY-DUTY. SEAT-LESS-COVER WITH SELF-SUSTAINING HINGES AND STAINLESS STEEL BOLTS; QUARTER-TURN BALL TYPE ANGLE
- STOP VALVE WITH RISER AND CHROME-PLATED ESCUTCHEON. • ACCEPTABLE MANUFACTURER: GERBER PRESSURE ASSIST H/C 'ULTRA-FLUSH 20-318'.

 WALL CLEANOUT: CAST IRON CLEANOUT TEE, COUNTER-SUNK CAST IRON PLUG WITH GASKET SEAL, AND STAINLESS STEEL ROUND COVER WITH SCREW.

#### • WATER HEATER: ELECTRIC, 50 GALLON, 4.5 kW INPUT, 18 GALLON PER HOUR RECOVERY AT 100°F TEMPERATURE RISE AND 140°F OPERATING TEMPERATURE. PROVIDE WITH DUAL-ELEMENT, NON-SIMULTANEOUS HEATING ELEMENTS. PROVIDE ALL WATER CONNECTIONS, VALVES, AND SPECIALS PER MANUFACTURER'S

- INSTALLATION REQUIREMENTS. • ELECTRICAL REQUIREMENTS: 208V/1ø, 21.6 FLA.
- BASIS OF DESIGN: A.O. SMITH MODEL # DEL-50.
- WASHING MACHINE BOX: STEEL BOX, STEEL FACEPLATE, TOP INLET WATER SUPPLIES WITH QUARTER TURN BALL VALVES AND 2" BOTTOM OUTLET DRAIN.
- TRIM: 24" LONG TAILPIECE AND 2" DIAMETER P-TRAP. BASIS OF DESIGN: OATEY CENTER DRAIN #38934

### PLUMBING GENERAL NOTES:

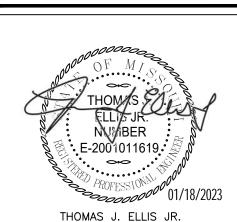
- DRAWINGS ARE SCHEMATIC IN NATURE AND BASED ON PRELIMINARY SITE OBSERVATION AND ORIGINAL DESIGN DRAWINGS (WHEN AVAILABLE). CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE AND BECOME FULLY AWARE OF ALL FIELD CONDITIONS, CURRENT SYSTEM OPERATION, AS WELL AS COORDINATION REQUIREMENTS. COORDINATE ALL PLUMBING WORK WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS, AND OTHER TRADES PRIOR TO BID OR START OF WORK.
- PLUMBING WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- PRIOR TO START OF WORK, CONTRACTOR SHALL CAMERA ALL EXISTING UNDERGROUND SANITARY SEWER LINES. VERIFY UNDERGROUND PIPING LOCATION, DEPTH AND FLOW DIRECTION. REPORT ANY PIPING DAMAGE OR LOCATION DISCREPANCIES TO ENGINEER AND/OR OWNER PRIOR TO START OF WORK.
- EXACT LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO ANY INSTALLATION OF CONNECTIONS THEREOF. ALL CONNECTIONS TO EXISTING UTILITIES (E.G. DOMESTIC WATER, SEWER, VENT, AND NATURAL GAS) SHALL BE MADE WITH APPROVAL OF THE ADMINISTRATIVE AUTHORITY AND THE RESPECTIVE UTILITY COMPANIES.
- SANITARY WASTE, VENT, AND STORM PIPING BELOW GRADE SHALL BE SCHEDULE 40 PVC WITH SOLVENT-WELDED
- SANITARY WASTE, VENT, AND STORM PIPING ABOVE GRADE SHALL BE NO-HUB CAST IRON IN RETURN AIR PLENUM APPLICATIONS. PVC OR ABS PIPING CAN BE USED IN AREAS OTHER THAN RETURN AIR PLENUMS AS ALLOWED BY CODE.
- SLOPE SANITARY PIPING AS FOLLOWS: 1/4" PER FOOT FOR PIPE SIZES 2-1/2" AND SMALLER, AND 1/8" PER FOOT FOR PIPE SIZES 3" AND LARGER.
- COORDINATE CONDENSATE DRAIN REQUIREMENTS WITH THE HVAC CONTRACTOR AND OTHER TRADES.
- PROVIDE WATER SUPPLY SHUT-OFF VALVES ON EACH TOILET ROOM GROUP AND TO MISCELLANEOUS EQUIPMENT.
- PROVIDE SIZE "A" WATER HAMMER ARRESTORS ON SUPPLY TO ALL PLUMBING FIXTURES.
- PROVIDE STOP VALVES ON ALL INDIVIDUAL PLUMBING FIXTURE SUPPLIES.
- COORDINATE SELECTION OF ALL PLUMBING FIXTURES WITH ARCHITECT AND OWNER. ALL HANDICAPPED FIXTURES (WHERE REQUIRED) SHALL COMPLY WITH A.D.A. REQUIREMENTS.
- DOMESTIC WATER PIPING ABOVE GRADE SHALL BE TYPE I COPPER WITH WROUGHT FITTINGS AND SOLDERED JOINTS.
- INSULATE NEW DOMESTIC COLD WATER, HOT WATER, HOT WATER RECIRCULATION, INTERIOR CONDENSATE DRAIN, AND STORM PIPING WITH MINIMUM 1" FIBERGLASS INSULATION (MINIMUM R-4.0) WITH PAPER COVERING.
- ALL NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE FITTINGS. SUPPORT PIPING AT INTERVALS NOT TO EXCEED THOSE LISTED IN TABLE 415.1 OF THE INTERNATIONAL FUEL GAS CODE.
- PROIVDE RUST—INHIBITOR PAINT ON ALL NATURAL GAS PIPING LOCATED EXTERIOR TO THE BUILDING.
- PROVIDE A.G.A. APPROVED GAS COCKS AND DIRT LEGS AT CONNECTIONS TO ALL GAS-FIRED EQUIPMENT.
- INSTALL ALL PLUMBING EQUIPMENT, FIXTURES, VALVES. ETC. PER MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE ADDITIONAL APPURTENANCES PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- INSTALL CLEANOUTS AT EVERY END OF SANITARY PIPING RUNS, AT MINIMUM OF EVERY 100'-0" OF SANITARY PIPING, AND AT EVERY CHANGE IN DIRECTION GREATER THAN 45°. REFER TO SECTION 708 OF THE INTERNATIONAL PLUMBING CODE FOR ADDITIONAL REQUIREMENTS.
- ALL FLOOR DRAINS SHALL HAVE A 2" THROAT AND P-TRAP UNLESS NOTED OTHERWISE.
- PLUMBING CONTRACTOR SHALL INSPECT ALL PLUMBING EQUIPMENT TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK.
- CONTRACTOR SHALL LABEL ALL PIPING, VALVES AND EQUIPMENT WITH MANUFACTURER STANDARD LABELING SYSTEMS. COORDINATE WITH OWNER FOR FINAL EQUIPMENT DESIGNATIONS.
- WHERE ALLOWED BY CODE, CROSS-LINKED POLYETHYLENE (PEX) PIPING MAY BE USED IN LIEU OF COPPER PIPING. ADJUST SIZING OF PIPING FOR REDUCED FREE AREA OF PEX PIPING. ALL PEX PIPE ROUTED IN RETURN AIR PLENUMS MUST MEET THE FLAME SPREAD RATING AND SMOKE DEVELOPED RATING FOR SUCH APPLICATIONS.

glas MO

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PROJECT TEAM

MO LICENSE # E-2001011619

MOMENTUM ARCHITECTURE+DESIGN ARCHITECT

MECHANICAL 5BY5 ENGINEERS 5BY5 ENGINEERS

ELECTRICAL 5BY5 ENGINEERS

----- NEW

----- EXISTING OR BY OTHERS

---- DEMOLITION

### <u>LIGHTING LEGEND:</u>

• CEILING MOUNTED LIGHT FIXTURE, 2'x2' OR 2'x4'

CEILING MOUNTED LIGHT FIXTURE, 2'x2' OR 2'x4' (NIGHT LIGHT OR EMERGENCY CIRCUIT) STRIP LIGHT FIXTURE. REFER TO FIXTURE

SCHEDULE FOR LENGTH. WALL-MOUNT SCONCE OR WALL BRACKET LIGHT

FIXTURE.

RECESSED WALL WASH CAN LIGHT FIXTURE. RECESSED, SURFACE, OR STEM HUNG LIGHT

SINGLE FACE EXIT LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE DIRECTIONAL ARROWS AS

INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE. DOUBLE FACE EXIT LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE

ARROWS. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS. SHADED AREA INDICATES EXIT LIGHT FACE. COMBINATION SINGLE FACE EXIT/EMERGENCY LIGHT FIXTURE, WALL OR CEILING MOUNT, WITH FIELD CONFIGURABLE ARROWS. PROVIDE

> NOTE: REFER TO LIGHT FIXTURE SCHEDULE AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS.

DRAWINGS. SHADED AREA INDICATES EXIT LIGHT

DIRECTIONAL ARROWS AS INDICATED ON

### POWER LEGEND:

INDICATES ABOVE COUNTER (TYP)

DUPLEX RECEPTACLE MOUNTED AT +18"AFF TO ← ← CENTER OF RECEPTACLE (UNO). ABOVE COUNTER RECEPTACLES SHALL BE +48"AFF (UNO).

DUPLEX ISOLATED GROUND RECEPTACLE MOUNTED AT ← ← +18"AFF TO CENTER OF RECEPTACLE (UNO). ABOVE COUNTER RECEPTACLES SHALL BE +48"AFF (UNO).

DUPLEX RECEPTACLE ON STAND-BY GENERATOR POWER, MOUNTED AT +18"AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN ABOVE

COUNTER SHALL BE +48"AFF (UNO). FLOOR-MOUNTED DUPLEX OR FOURPLEX RECEPTACLE MOUNTED IN PVC FLOORBOX, OR POKE-THRU

SPECIAL RECEPTACLE, NUMBER REFERS TO "NEMA" CONFIGURATION. MOUNT AT +18"AFF TO CENTER OF RECEPTACLE (UNO).

FOURPLEX RECEPTACLE MOUNTED AT +18"AFF TO CENTER OF RECEPTACLE (UNO). RECEPTACLES SHOWN TO BE ABOVE COUNTER SHALL BE +48"AFF

FLUSH MOUNT COMBINATION POWER AND VOICE/DATA FLOORBOX.

SINGLE POLE WALL MOUNT TOGGLE SWITCH. MOUNT AT +48"AFF TO CENTER OF SWITCH.

WALL MOUNTED OCCUPANCY SENSOR SWITCH. MOUNT AT +48"AFF TO CENTER OF SWITCH. WALL MOUNTED OCCUPANCY SENSOR SWITCH WITH

0-10V DIMMING CONTROL. MOUNT AT +48"AFF TO CENTER OF SWITCH.

WALL MOUNTED LOW VOLTAGE SWITCH WITH 0-10V DIMMING CONTROL. MOUNT AT +48"AFF TO CENTER OF SWITCH.

(S) CEILING MOUNTED OCCUPANCY SENSOR.

DRC1 ROOM CONTROLLER/POWER PACK FOR LIGHT FIXTURE CONTROL. DEVICE SHALL BE CONCEALED IN CEILING.

VOICE OPENING. PROVIDE RING WITH STRING TO ABOVE CEILING. DEVICES SHOWN TO BE COUNTER SHALL BE +48"AFF (UNO).

DATA OPENING. PROVIDE RING WITH STRING TO ABOVE CEILING. DEVICES SHOWN TO BE COUNTER SHALL BE +48"AFF (UNO). COMBINATION VOICE/DATA OPENING. PROVIDE RING

WITH STRING TO ABOVE CEILING. DEVICES SHOWN TO BE COUNTER SHALL BE +48"AFF (UNO).

FLUSH FLOOR MOUNT VOICE/DATA OUTLET MOUNTED IN PVC FLOORBOX. DISCONNECT SWITCH, STARTER, & COMBINATION

STARTER/DISCONNECT SWITCH. SIZE AS INDICATED ON

[ ] ELECTRICAL PANEL BOARD, FLUSH OR SURFACE MOUNT

J JUNCTION BOX

NOTE: LINE THROUGH DEVICE INDICATES TO BE MOUNTED ABOVE COUNTERTOP OR CABINET. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS IF NOT INDICATED ON POWER PLAN.

REFER TO LIGHTING CONTROL DEVICE SCHEDULE AND ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION.

## WIRING LEGEND:

HOMERUN TO PANELBOARD WITH NUMBER AND SIZE OF CONDUCTORS INDICATED ON PLANS. WHEN NO WIRING TICK MARKS ARE SHOWN, CONTRACTOR SHALL ASSUME MINIMUM OF (3) #12 CONDUCTORS.

— C GROUNDED CONDUCTOR. CONDUIT OR CIRCUIT BREAK/CONTINUATION.

**CONDUIT WITH ENDCAP FOR FUTURE USE.** 

GROUNDING SOURCE.

### FIRE ALARM LEGEND:

SMOKE DETECTOR / HEAT DETECTOR COMBINATION AUDIO/VISUAL DEVICE, +80"AFF

VISUAL DEVICE, +80"AFF PULL STATION, +48"AFF

FIRE/SMOKE DAMPER SPRINKLER FLOW AND TAMPER SWITCH

SUPPLY DUCT/PLENUM MOUNT SMOKE DETECTOR

RETURN DUCT/PLENUM MOUNT SMOKE DETECTOR

FIRE ALARM CONTROL PANEL

FIRE ALARM ANNUNCIATOR PANEL

FIRE ALARM DOOR HOLD FIRE ALARM DOOR RELEASE

FIRE SPRINKLER FLOW/TAMPER SUPVERVISORY PANEL. PROVIDE (2) DEDICATED PHONE LINES AS

### ABBREVIATIONS LEGEND:

ABOVE FINISHED FLOOR EXISTING TO BE DEMOLISHED

**EMERGENCY** EXISTING TO BE REPLACED

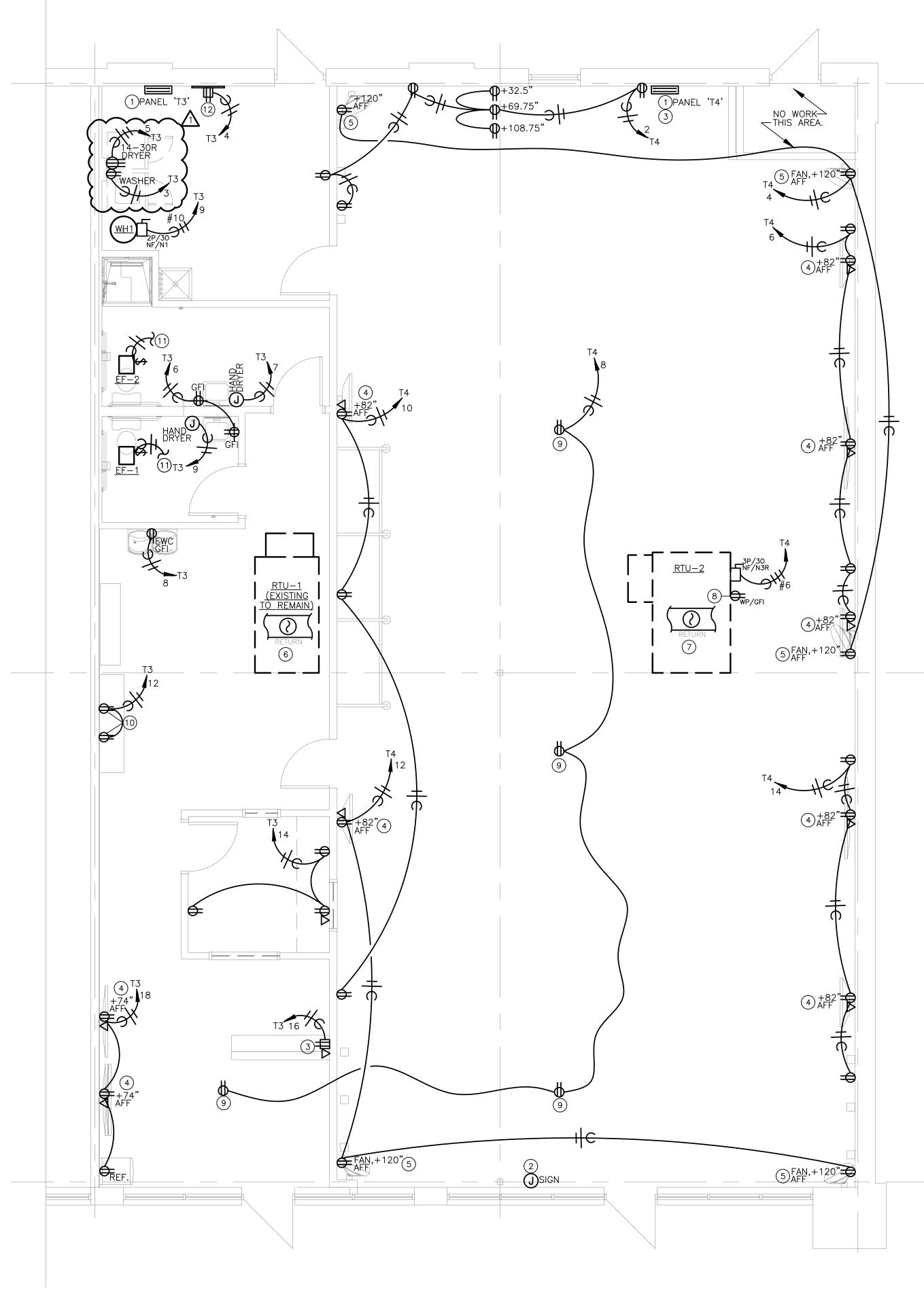
EXISTING TO REMAIN

GROUND FAULT CURRENT INTERRUPTER

NIGHT LIGHT

TR TAMPER RESISTANT

UNO UNLESS NOTED OTHERWISE WP WEATHER PROTECTED COVER / GFCI



ELECTRICAL POWER PLAN



ELECTRICAL GENERAL NOTES

REFERENCE SHEET E3.0 FOR ELECTRICAL GENERAL

ELECTRICAL POWER PLAN NOTES:

1. EXISTING 200A 120/208V BRANCH PANEL SHALL

REEMAIN AND RE-USED IN NEW CONSTRUCTION. 2. EXISTING JUNCTION BOX IN CANOPY FOR STORE

SIGNAGE. CONFIRM ACTUAL SIGN LOCATION IN FIELD. MAINTAIN CIRCUITING AND TIMECLOCK ABOVE PANEL

3. COORDINATE RECEPTACLE AND DATA OUTLET LOCATION WITH CASEWORK INSTALLER AND SHOP-DRAWINGS.

4. COORDINATE T.V. RECEPTACLE AND DATA STUB HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.

5. COORDINATE FAN RECEPTACLE HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.

6. DUCT SMOKE DETECTOR ON EXISTING RTU TO REMAIN. RELOCATE 'TEST/RESET' BUTTON INTO OFFICE IN ACCESSIBLE LOCATION.

7. DUCT SMOKE DETECTOR ON NEW RTU. INSTALL 'TEST/RESET' BUTTON IN OFFICE IN ACCESSIBLE LOCATION.

8. CONNECT 120V CIRCUIT TO WP/GFI RECEPTACLED PROVIDED WITH RTU.

9. RECEPTACLE AT STRUCTURE FOR CAMERA. FINAL LOCATION TO BE DETERMINED IN FIELD.

10. (2) RECEPTACLES MOUNTED AT 6'-6" WITH EACH LOCATED 12" OFF OF THE CENTERLINE OF THE LOCKER/CUBBIE CABINET.

11. CONNECT EXHAUST FAN TO SWITCHED RESTROOM LIGHTING CIRCUIT. VERIFY OCC. SENSOR SWITCH IS CAPABLE OF CONTROLLING EXHAUST FAN.

12. NEW QUAD RECEPTACLE AND 2'X4'X3/4" SHEET OF

PLYWOOD FOR TELCO BACKBOARD. CONFIRM

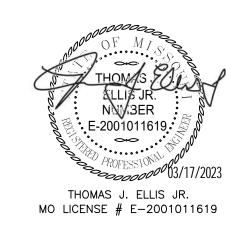
LOCATION WITH TENANT.

glas MO

Date: 03/08/23

For Permit For: REVISIONS

No. Date Description 1. 3.17.23 CITY REVIEW



PROJECT TEAM

MOMENTUM ARCHITECTURE+DESIGN ARCHITECT MECHANICAL 5BY5 ENGINEERS

5BY5 ENGINEERS

ELECTRICAL 5BY5 ENGINEERS CONTRACTOR HAWTHORN PROJECTS

				LIG	HT FIXT	URE SC	HEDULE			
ТҮРЕ	MANUFACTURER	MODEL	LIGHT SOURCE	WATTS	VOLTAGE	COLOR TEMP	DIMMABLE	FINISH	DESCRIPTION	NOTES
А	WARELIGHT	BEAMLED8-DID-130W-3CT- DMV-WH	INTEGRAL LED	130	UNV	3500	0/10V	WHITE	8' DIRECT/INDIRECT LINEAR PENDANT HUNG FROM STRUCTURE. CONFIRM MOUNTING HEIGHT WITH TENANT.	1-4
В	WARELIGHT	BEAMLED4-DID-65W-3CT- DMV-WH	INTEGRAL LED	65	UNV	3500	0/10V	WHITE	4' DIRECT/INDIRECT LINEAR PENDANT HUNG FROM STRUCTURE. CONFIRM MOUNTING HEIGHT WITH TENANT.	1-4
С	LOTUS LED LIGHTING	LD4R-D5K-HO-4R-4R-BR-WT	INTEGRAL LED	18	UNV	3500	0/10V	WHITE	4.5" WET LOCATION APPROVED CAN LIGHT FIXTURE.	1-4
EM	LITHONIA QUANTUM SERIES	ELM2 LED	INTEGRAL LED	2.2	UNV	NA	NA		EMERGENCY WALL MOUNTED FIXTURE. FIXTURE SHALL BE PROVIDED WITH INTEGRAL EMERGENCY 90 MINUTE BATTERY PACK.	1-4
X1	LITHONIA QUANTUM SERIES	LQM-R LED	INTEGRAL LED	3	UNV	NA	NA	WHITE	SINGLE FACE LED EXIT LIGHT FIXTURE WITH BATTERY PACK, RED LETTERS AND FIELD CONFIGURED ARROWS.	1-4
X1EM	LITHONIA QUANTUM SERIES	LHQM'R LED	INTEGRAL LED	3.8	UNV	NA	NA		COMBINATION EMERGENCY EGRESS /SINGLE FACE LED EXIT LIGHT FIXTURE WITH BATTERY PACK, RED LETTERS AND FIELD CONFIGURED ARROWS.	1-4
X1EMR	LITHONIA QUANTUM SERIES	LHQM-R-HO-RO LED WITH WLA-T-Q REMOTE HEAD	INTEGRAL LED	3.8	UNV	NA	NA		COMBINATION EMERGENCY EGRESS /SINGLE FACE LED EXIT LIGHT FIXTURE WITH HIGH OUTPUT BATTERY PACK FOR REMOTE HEADS, RED LETTERS AND FIELD CONFIGURED ARROWS.	1-4

- 1. COORDINATE ALL LIGHT FIXTURE SELECTIONS AND/OR SUBSTITUTIONS WITH ARCHITECT, OWNER AND/OR ENGINEER PRIOR TO ORDER.

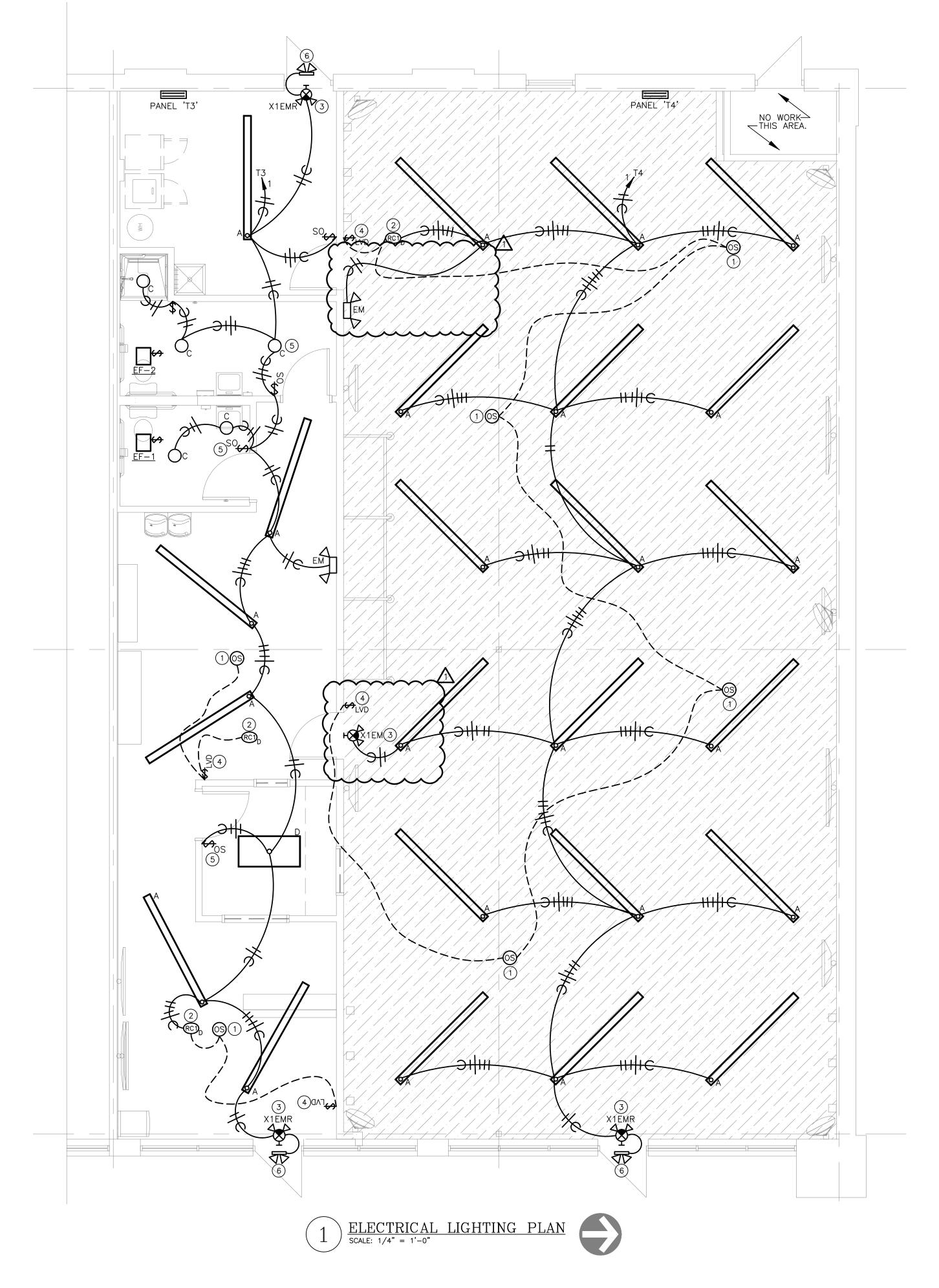
- 4. PROVIDE ALL COMPONENTS AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION.

		LIGHTING CONTRO	DL DEVICE SCHEDU	ILE					
TAG	MANUFACTURER AND MODEL SERIES		COVERAGE AREA (WxD OR RADIUS Ø)	VOLTAGE	MODE SETTINGS	DIMMING	TIME DELAY	DEVICE FINISH COLOR	SENSOR NOTES
WALL SWITCH	H OCCUPANCY SENS	ORS				1		·	-
S OS	WATTSTOPPER PW-301	SINGLE-RELAY PASSIVE INFRARED OCCUPANCY SENSOR WALL SWITCH WITH MANUAL OVERRIDE BUTTON.	MAJOR 30' x 35' MINOR 15' x 20'	120/277V	MANUAL ON AUTO OFF	N/A	15 MIN	WHITE	1
S OS2	WATTSTOPPER DW-100	SINGLE-RELAY DUAL TECHNOLOGY PASSIVE INFRARED OCCUPANCY SENSOR WALL SWITCH WITH MANUAL OVERRIDE BUTTON.	MAJOR 30' x 35' MINOR 15' x 20'	120/277V	MANUAL ON AUTO OFF	N/A	15 MIN	WHITE	1
<b>CEILING MOL</b>	JNTED DAYLIGHT / C	OCCUPANCY SENSORS						4	,
OS	WATTSTOPPER LMDC-100	CEILING MOUNT ULTRASONIC DIGITAL OCCUPANCY SENSOR. 360 DEGREE COVERAGE. PLUG-AND-PLAY CONFIGURATION, (2) RJ45 PORTS, LCD DISPLAY, IR RECEIVER, CONFIGURATION BUTTONS.	ULT MAJOR 25' X 25' PIR 32' Ø	24V	-	-	-	WHITE	2
<b>POWER SUPP</b>	LIES/ROOM CONTRO	OLLERS							
RC1-D	WATTSTOPPER LMRC-211	DIGITAL SINGLE-RELAY ON/OFF/DIMMING ROOM CONTROLLER. 0-10V DIMMING. MAXIMUM 20A TOTAL LOAD RATING. PLUG-AND-PLAY CONFIGURATION, (4) RJ45 PORTS, LED STATUS INDICATORS, CONFIGURATION BUTTONS, PLENUM RATED.	-	120/277V LOAD, 24VDC CONTROL OUTPUT	AUTO ON AT 50%, AUTO OFF		-	-	2,4
LOW VOLTAG	SE & LINE VOLTAGE S	SWITCHES AND DIMMERS							
D	WATTSTOPPER RH4FBL3PW	0-10V DIMMING WALL SWITCH.	-	120V/277V	-	0-10V	-	WHITE	2,3,4
LVD	WATTSTOPPER LMDM-101	DIGITAL DIMMING WALL SWITCH. LOWER CASE DESIGNATES LIGHTING ZONE CONTROLED BY SWITCH & ROOM CONTROLLER.	-	24VDC	-		-	WHITE	2,3,4
LV	WATTSTOPPER LMSW-101	DIGITAL NON-DIMMING WALL SWITCH.	-	24VDC	-		-	WHITE	2,3,4

- A. SENSOR LAYOUT BASED ON WATTSTOPPER COVERAGE PATTERNS. ADJUST QUANTITIES AND LOCATIONS FOR ALTERNATE MANUFACTURERS LISTED BELOW PER MANUFACTURER SPECIFIC SPACING CRITERIA.
- B. nLIGHT, SENSOR SWITCH, COOPER-GREENGATE, CRESTRON, HUBBELL BUILDING AUTOMATION, AND LEVITON ARE CONSIDERED EQUIVALENT MANUFACTURES FOR SUBMISSION AS AN APPROVED
- MANUFACTURER, CONTINGENT ON LISTINGS APPROPRIATE FOR THE APPLICATION. DURING SHOP DRAWINGS, PROVIDE LIGHTING PLANS SHOWING LOCATION, MOUNTING HEIGHT, ORIENTATION AND COVERAGE AREAS FOR EACH OCCUPANCY SENSOR FOR REVIEW AND APPROVAL BY ENGINEER.
- ALSO INCLUDE ON PLANS OTHER CEILING MOUNTED SYSTEMS, SHOWING COORDINATION WITH CEILING DEVICES INCLUDING BUT NOT LIMITED TO HVAC SUPPLY AND RETURN GRILLES, SPRINKLERS, AND LIGHT
- . PROVIDE ALL SENSORS BY THE SAME MANUFACTURER.
- PROVIDE COPIES OF SENSOR AND POWER SUPPLY OPERATION INSTRUCTIONS TO OWNER.
- PROVIDE WALL SWITCH AND CEILING SENSORS WITH AN ADJUSTABLE TIME DELAY RANGE OF 0-30 MIN, UNO.
- . DO NOT INSTALL LINE VOLTAGE SENSORS ON GFCI PROTECTED CIRCUITS. FIELD-SET DEVICES TO THE ON MODE INDICATED IN TABLE, DISABLE ANY VISABLE/AUDIBLE ALERT SETTINGS, AND SET SENSITIVITIES TO MAXIMUM LEVELS.
- PROVIDE ALL LOW VOLTAGE WIRING BETWEEN SENSORS, DEVICES, AND POWER SUPPLIES AS REQUIRED AND PER MANUFACTURER RECOMMENDATIONS.
- WHERE OCCUPANCY SENSORS USE BOTH PIR AND ULTRASONIC TECHNOLOGIES, PROGRAM OFF MODES (MAINTAIN OCCUPANCY AND RE-TRIGGER) TO TRIGGER ON A SIGNAL FROM EITHER TECHNOLOGY.
- (. WHERE MULTIPLE LOW VOLTAGE SWITCHES ARE CONNECTED WITHIN THE SAME SPACE, PROGRAM THE SWITCHES TO CONTROL THE LIGHTING IN THE EXACT SAME MANNER, UNO.
- CONNECT NEUTRAL CONDUCTOR TO SENSOR.
- NETWORK WITH OTHER 'DLM' COMPONENTS USING PRE-TERMINATED CAT 5e CABLING WITH RJ-45 JACKS.
- PROVIDE PROVIDE UNSWITCHED HOT, NEUTRAL AND GROUND TO ROOM CONTROLLER.
- 4 0-10V DIMMING CONDUCTORS SHALL BE CLASS 2 CABLE WITH (2) #18 CU PER UL REQUIREMENTS.

## ELECTRICAL GENERAL NOTES:

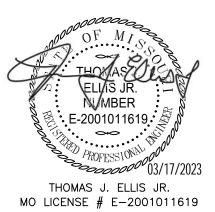
- REFERENCE SHEET E3.0 FOR ELECTRICAL GENERAL NOTES.
- ELECTRICAL LIGHTING PLAN NOTES:
- 1. LOW VOLTAGE OCCUPANCY SENSOR MOUNTED AT CEILING/STRUCTURE. PROVIDE CATAGORY CABLE BACK TO ROOM CONTROL MONDULE. REFER TO LIGHTING CONTROL SCHEDULE FOR MORE INFORMATION.
- 2. ROOM CONTROL MODULE MOUNTED ABOVE CEILING (AT STRUCTURE) IN ACCESSIBLE LOCATION. PROVIDE CONTROLLED WIRING TO LIGHTING IN AREA. PROVIDE (2) #18 0-10V DIMMING CONDUCTORS TO EACH LIGHT FIXTURE FROM ROOM CONTROLLER.
- 3. ROUTE UNSWITCHED HOT TO ALL EMERGENCY LIGHT FIXTURES AND EXIT SIGNS.
- 4. PROVIDE DIMMING LOW VOLTAGE PADDLE SWITCH AND CONNECT TO ROOM CONTROLLER WITH CATAGORY CABLE. REFERENCE LIGHTING CONTROL SCHEDULE FOR FURTHER INFORMATION.
- 5. PROVIDE NEW OCCUPANCY SENSING WALL MOUNTED LIGHT SWITCH. REFERENCE LIGHTING CONTROL DEVICE SCHEDULE FOR ADDITIONAL INFORMATION.
- 6. EXTERIOR REMOTE EMERGENCY EGRESS FIXTURE MOUNTED ABOVE EXTERIOR EGRESS DOOR. FIXTURE SHALL BE POWERED OFF OF EXIT FIXTURE HIGH OUTPUT BATTERY.



Date:

**REVISIONS** No. Date Description

1. 3.17.23 CITY REVIEW



PROJECT TEAM

MOMENTUM ARCHITECTURE+DESIGN ARCHITECT

5BY5 ENGINEERS MECHANICAL 5BY5 ENGINEERS

ELECTRICAL 5BY5 ENGINEERS

	BUS AMPS:	225A						LOCATION		ELECTRICA	(ISTING)			CDC	DUND B	US: YES	
	MAIN SIZE / TYPE:	MLO						NEMA RA		NEMA 1	AL KOOIVI					ND BUS: NO	
	VOLTS/PHASE:	208Y/120V	3 DH 41	۸/				AFC VALU		INCIVIA 1					D THRU		
	MOUNTING:	SURFACE	, 3511, 41	/V				AIC RATIN		22k AIC					TIONS:	1 OF 1	
01/T		JUNFACE	Labert		11055	LIOTES			51-29	ARCHIOLOGICA CONTROL	1015	NOTES				40 F Th. 5400 4 11 H 11/10	01/7
CKT	CIRCUIT		BREAK		WIRE	NOTES	LOAD		1	PHASE (VA)	LOAD	NOTES	WIRE	_	EAKER	CIRCUIT	CKT
#	DESCRIPTION		AMPS	Р	SIZE		(VA)	Α	В	С	(VA)		SIZE	Р	AMPS	DESCRIPTION	#
1	LIGHTING		20	1			800	1,300			500			1	20	SIGN CIRCUIT (EXISTING)	2
3	CLOTHES WASHER		20	1			1,000		1,360		360			1	20	RECEPTACLE - TELCO BOARD	4
5	CLOTHES DRYER		30	2	#10		2,000			2,360	360			1	20	RECEPTACLES - RESTROOMS	6
7	-		-	-			2,000	2,180			180			1	20	RECEPTACLE - ELEC. WATER COOLER	8
9	WATER HEATER (WH1)		30	2	#10		1,900		2,440		540			1	20	RECEPTACLE - LOBBY	10
11	-		-	-			1,900		•	2,260	360			1	20	RECEPTACLES - CUBBIES	12
13	SPARE		20	1			0	540		_	540			1	20	RECEPTACLES - OFFICE	14
15	SPARE		20	1			0		0		0			1	20	RECEPTACLES - RECEPTION DESK	16
17	SPARE		20	1			0			0	0			1	20	SPARE	18
19	SPARE		20	1			0	0			0			1	20	SPARE	20
21	SPARE		20	1			0		0		0			1	20	SPARE	22
23	SPARE		20	1	7		0	· 1	45	0	0			1	20	SPARE	24
25	SPARE		20	1			0	0			0			1	20	SPARE	26
27	SPARE		20	1			0	É	0		0			1	20	SPARE	28
29	SPARE		20	1			0			0	0			1	20	SPARE	30
31	SPARE		20	1	3		0	0		u <del>t</del>	0		2	1	20	SPARE	32
33	SPARE		20	1			0	32	0	]	0			1	20	SPARE	34
35	SPARE		20	1			0			0	0			1	20	SPARE	36
37	SPARE		20	1			0	3,000	Y.	1975 c 1	3,000			-	1-	-	38
39	SPARE		20	1			0		3,000	1	3,000	ETR		3	45	ROOF TOP UNIT 'RTU-2' (EXISTING)	40
unional d	SPARE		20	1			0		A STATE OF THE STA	3,000	3,000	100000000000000000000000000000000000000		-	-	-	42
			- A-ME-25	6.001	DED	PHASESI	JB-TOTALS	7,020	6,800	7,620	1 100						
			TOTAL	601	7,7,7835-27			7,020	110.000	7,020	LECEND						
TOTAL CONNECTED PANELBOARD (V TOTAL CONNECTED PANELBOARD (AMP								9.	21,440		<u>LEGEND:</u> TS - VIA TI	NAE CIMITO	'LI			ST - SHUNT TRIP	
		-1							Marie Marie Calif		1000 1000 1000 1000 1000 1000 1000 100			PINI			
TOTAL PANELBOARD DEMAND (VA TOTAL PANELBOARD DEMAND (AMP									13,965 39		1					LCK - LOCKING TAB GF - GROUND FAULT INTERRUPTER	
			IOIAL	PAIN	ICLDUAN	DEWAN	ID (AIVIPS)	Al.	39								
											FP - REFER TO FLOOR PLAN DRAWING. OL - RE: ONE-LINE DIAGRAM ETR - EXISTING TO REMAIN					OL - RE; UNE-LINE DIAGRAM	

							DANIEL	20422	DANIEL	ITAL (EV	ICTINIC)	1							
	MAIN SIZE / TYPE: VOLTS/PHASE:	225A MLO 208Y/120V, SURFACE	, 3PH, <b>4</b> \	w				LOCATION NEMA RA' AFC VALU AIC RATIN	: TING: E:		ISTING) STUDIO RO			GROUND BUS: YES ISOL. GROUND BUS: NO FEED THRU LUGS: NO SECTIONS: 1 OF 1					
CKT	CIRCUIT		BREAK	KER	WIRE	NOTES	LOAD	CONNEC	TED PER P	HASE (VA)	LOAD	NOTES	WIRE	BR	EAKER	CIRCUIT	CKT		
#	DESCRIPTION		AMPS	Р	SIZE		(VA)	Α	В	С	(VA)		SIZE	Р	AMPS	DESCRIPTION	#		
3	LIGHTING SPARE		20 20	1			1,200 0	2,460	540		1,260 540			1	20 20	RECEPTACLES RECEPTACLES	2		
5	SPARE		20	1			0		7.	900	900			1	20	RECEPTACLES	6		
7	SPARE		20	1			0	720		5: 5: -	720			1	20	RECEPTACLES - SEC. CAMERAS	8		
9	SPARE		20	1			0		540		540			1	20	RECEPTACLES	10		
11	SPARE		20	1			0		19	540	540			1	20	RECEPTACLES	12		
13	SPARE		20	1			0	720			720			1	20	RECEPTACLES	14		
15	SPARE		20	1			0		0		0			1	20	SPARE	16		
17	SPARE		20	1			0			0	0			1	20	SPARE	18		
19	SPARE		20	1			0	0			0			1	20	SPARE	20		
21	SPARE		20	1			0		0		0			1	20	SPARE	22		
23	SPARE		20	1			0	(1)		0	0			1	20	SPARE	24		
25	SPARE		20	1			0	0		í	0			1	20	SPARE	26		
27	SPARE		20	1			0		0		0			1	20	SPARE	28		
29	SPARE		20	1			0			0	0			1	20	SPARE	30		
31	-		-	7-1			7,020	7,020		1	0			1	20	SPARE	32		
33	PANEL 'T3' (EXISTING)		100	3			6,800		6,800		0			1	20	SPARE	34		
35	-		-	-			7,620			7,980	360			1	20	SPARE	36		
37	SPARE		20	1			0	5,000		1	5,000			-	=	-	38		
	SPARE		20	1			0		5,000		5,000		#6	3	60	ROOF TOP UNIT 'RTU-2'	40		
41	SPARE		20	1			0			5,000	5,000			-	-	-	42		
	PER PHASE SUB-TOTALS								12,880	14,420									
TOTAL CONNECTED PANELBOARD (VA) TOTAL CONNECTED PANELBOARD (AMPS)  TOTAL PANELBOARD DEMAND (VA) TOTAL PANELBOARD DEMAND (AMPS)								43,220 120 36,045 100		FA - FIRE	and the second	ED / LO			ST - SHUNT TRIP LCK - LOCKING TAB GF - GROUND FAULT INTERRUPTER				
							A-30- VA-3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		and the same of th			OL - RE: ONE-LINE DIAGRAM							

#### ELECTRICAL GENERAL DEMOLITION NOTES:

- REFERENCE ARCHITECTURAL DRAWINGS FOR FULL EXTENT OF DEMOLITION WORK AND PHASING. NOTIFY ARCHITECT, ENGINEER, AND/OR OWNER, AS APPLICABLE, OF ANY CONFLICTS OR DISCREPANCIES BETWEEN DRAWINGS AND JOBSITE CONDITIONS PRIOR TO SUBMITTING BID.
- COORDINATE DEMOLITION AND REMOVAL OF EXISTING EQUIPMENT AND LIGHTING SYSTEMS WITH ARCHITECTURAL PHASING DRAWINGS AND OWNER TO ALLOW NECESSARY SYSTEMS TO REMAIN OPERATIONAL DURING CONSTRUCTION.
- UNLESS NOTED OTHERWISE, DISPOSE OF ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, AND DEVICES SHOWN TO BE REMOVED. COORDINATE WITH THE OWNER THE ITEMS TO BE SALVAGED, AND THE LOCATION FOR STORAGE. AVOID DAMAGING SALVAGED ITEMS DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
- WHERE ALTERATION OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, RACEWAYS, OR WIRING DEVICES AFFECTS EXISTING SURFACES/FINISHES: REPAIR/PAINT AFFECTED SURFACE TO MATCH EXISTING ADJACENT SURFACE IN ACCORDANCE WITH OWNER REQUIREMENTS. MAINTAIN FIRE RATING OF ALL FLOORS, WALLS, AND CEILINGS THAT ARE
- WHERE DEMOLITION WORK INTERRUPTS ELECTRICAL CONTINUITY OF CIRCUITS THAT ARE TO REMAIN IN USE: PROVIDE NECESSARY DEVICES AND RELATED CIRCUITRY TO MAINTAIN ELECTRICAL CONTINUITY IN ACCORDANCE WITH OWNER REQUIREMENTS. RE-CIRCUIT REUSED ELECTRICAL EQUIPMENT, LIGHT FIXTURES, AND WIRING DEVICES PREVIOUSLY POWERED FROM DEMOLISHED EQUIPMENT TO NEW OR TEMPORARY EQUIPMENT AS NEEDED.
- COORDINATE DISCONNECTION OF POWER TO EQUIPMENT BEING DEMOLISHED / REMOVED / RELOCATED WITH OTHER TRADES PRIOR TO START OF WORK. REMOVE ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, RACEWAYS, WIRING DEVICES, AND RELATED CIRCUITRY NOT BEING REUSED IN ALL ACCESSIBLE AREAS INCLUDING FLOORS, WALLS, AND CEILINGS THAT ARE TO BE REMOVED.
- ELECTRICAL EQUIPMENT, RACEWAYS, AND RELATED CIRCUITRY ABANDONED IN PLACE SHALL BE PERMANENTLY DISCONNECTED FROM ALL POWER SOURCES, INSULATED FROM CONTACT WITH OTHER LIVE ELECTRICAL WIRING/DEVICES, AND IDENTIFIED AT TERMINATIONS AS NO LONGER BEING IN SERVICE. CABLES/WIRING NOT BEING REUSED SHALL BE REMOVED UNLESS IDENTIFIED FOR FUTURE USE. CARE SHOULD BE TAKEN DURING THE REMOVAL PROCESS TO PROTECT THE EXISTING REUSED CABLES/WIRING FROM DAMAGE.

#### ELECTRICAL GENERAL NOTES:

- DRAWINGS ARE SCHEMATIC IN NATURE AND BASED ON PRELIMINARY SITE OBSERVATION AND ORIGINAL DESIGN DRAWINGS (WHEN AVAILABLE). PRIOR TO BID, CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE AND BECOME FULLY AWARE OF ALL FIELD CONDITIONS, CURRENT SYSTEM OPERATION AS WELL AS COORDINATION REQUIREMENTS. COORDINATE ALL MECHANICAL WORK WITH ARCHITECTURAL DRAWINGS. EXISTING CONDITIONS AND OTHER TRADES PRIOR TO BID OR START OF WORK.
- ELECTRICAL WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. REFER TO ARCHITECTURAL CODE PLANS FOR SPECIFIC CODE REFERENCES.
- COORDINATE ELECTRICAL WORK WITH ALL OTHER PROJECT TRADES (E.G. ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, ETC.).
- COORDINATE EXACT LOCATIONS OF ALL LIGHT FIXTURES AND ELECTRICAL DEVICES WITH ARCHITECTURAL DRAWING AND OTHER TRADES PRIOR TO ROUGH-IN. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRE TO PROPERLY INSTALL ALL SYSTEMS.
- INSTALL PULL STRING IN ALL EMPTY CONDUIT/RACEWAY. TERMINATE CONDUIT STUB-UP WITH A NYLON BUSHING.
- COLOR FOR RECEPTACLES, SWITCHES, NETWORK DEVICES AND COVER PLATES SHALL MATCH. DEVICE COLOR SHALL WHITE. DEVICE PLATES SHALL BE PLASTIC ON GYPBOARD WALLS AND STAINLESS STEEL ON TILED WALLS.
- ELECTRICAL CONTRACTOR SHALL INSPECT ALL ELECTRICAL EQUIPMENT TO REMAIN. REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK.
- ALL CONDUCTORS SHALL BE INSTALLED IN METALLIC (EMT) CONDUIT, AND INSTALLED IN A NEAT AND WORKMANLIKE MANNER PER THE RECOGNIZED EDITION OF THE NATIONAL ELECTRIC CODE (NEC). CONDUIT SHALL BE 1/2" MINIMUM USING STEEL SET-SCREW FITTINGS. HOME RUNS SHALL CONFORM TO NEC REQUIREMENTS FOR CONDUIT FILL, AND SHALL CONTAIN NO MORE THAN 6 CURRENT CARRYING CONDUCTORS. IF NEUTRALS ARE SHARED FOR ANY REASON, CIRCUIT BREAKER TIE HANDLES SHALL BE INSTALLED AT THE
- AT CONTRACTOR'S OPTION, MC CABLE CAN BE USED IN FURRED WALLS, ABOVE CEILINGS AND IN OTHER CONCEALED SPACES WHERE ALLOWED BY NEC. MC CABLE MAY BE ROUTED EXPOSED IF ROUTED NEATLY ALONG BUILDING STRUCTURE AND TIGHTLY STRAPPED AND SUPPORTED.
- CONTRACTOR SHALL VERIFY ALL ROUGH—IN LOCATIONS AND QUANTITIES FOR GENERAL USE POWER AND DATA WITH OWNER AND/OR ARCHITECT PRIOR TO INSTALLATION.
- ALL CONDUCTORS SHALL BE COPPER WITH #12 AWG MINIMUM, (UNLESS NOTED OTHERWISE).
- CONTRACTOR SHALL LABEL ALL RECEPTACLES, BOXES, PANELBOARDS, ETC. WITH PANEL, CIRCUIT NUMBER, ETC. WITH PANEL AND CIRCUIT NUMBERS. RECEPTACLE COVERPLATES SHALL BE LABELED USING PRINTED LABEL WITH 1/2" HIGH LETTERS. COORDINATE WITH OWNER FOR FINAL PANEL AND EQUIPMENT DESIGNATIONS AND LABELING REQUIREMENTS.

At:

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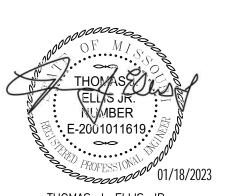
Date: 12/30/22

For:

Issued STEP 1 FOR **REVIEW** 

REVISIONS

No. Date Description



MO LICENSE # E-2001011619

PROJECT TEAM MOMENTUM ARCHITECTURE+DESIGN

5BY5 ENGINEERS

**5BY5 ENGINEERS** 5BY5 ENGINEERS