

# LEE'S SUMMIT LOGISTICS 43 I K SPEC BUILDING



NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO  
64086  
11.02.22

## BUILD OUT CONSTRUCTION SET

**OWNER**  
SCANNELL PROPERTIES  
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INDIANAPOLIS, IN 46240  
O : 317 . 218 . 1648

**CIVIL ENGINEER**  
OLLSON  
7301 W. 133RD ST. SUITE 200  
OVERLAND PARK, KS 66213  
O : 913 . 381 . 1170

**ARCHITECT**  
  
**CURRAN**  
ARCHITECTURE  
5719 LAWTON LOOP E. DR. #212  
INDIANAPOLIS, IN 46216  
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CONTACT : SHAWN CURRAN

**STRUCTURAL ENGINEER**  
WALLACE DESIGN  
COLLECTIVE  
1741 MCGEE STREET  
KANSAS CITY, MO 64108  
O : 816 . 421 . 8282

**CONTRACTOR**  
KADEAN CONSTRUCTION  
1821 MCGEE STREET  
KANSAS CITY, MO 64108  
O : 816 . 708 . 1199

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#### MECHANICAL

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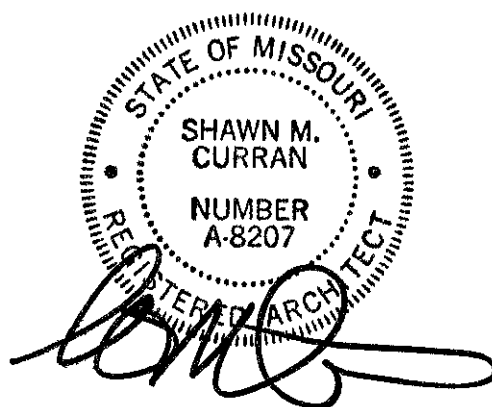
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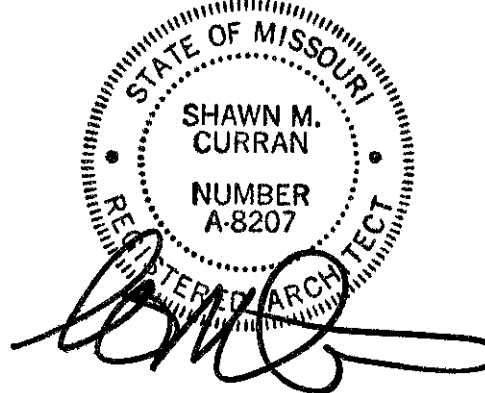


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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I  
  
NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086

ISSUE DATES

PERMIT SET	02.18.22
PERMIT COMMENTS	10.24.22

210300  
ENLARGED LIFE SAFETY  
PLANS

A108

KEYED NOTES

- EXIT, EXIT SIGN, AND EMERGENCY LIGHTING ABOVE DOOR  
INTERIOR WITH BATTERY BACKUP, EXTERIOR EGRESS  
LIGHTING ABOVE DOOR TIED TO BATTERY BACK UP.
- FINAL QUANTITY AND LOCATIONS TO BE DETERMINED  
WITH FINAL RACKING PLAN AND FIRE DEPARTMENT REVIEW.

CODE ANALYSIS

APPLICABLE CODES

- BUILDING CODE  
2018 INTERNATIONAL BUILDING CODE
- PLUMBING CODE  
2017 INTERNATIONAL PLUMBING CODE
- ELECTRICAL CODE  
2017 NATIONAL ELECTRICAL CODE
- FIRE CODE  
2018 INTERNATIONAL FIRE CODE
- MECHANICAL CODE  
2018 INTERNATIONAL MECHANICAL CODE
- FUEL GAS CODE  
2018 FUEL GAS CODE
- HANDICAPPED ACCESSIBILITY CODE  
2009 ANSI A117.1  
ADA ACCESSIBILITY GUIDELINES

OCCUPANCY (OVERALL BUILDING)

CLASSIFICATION (302.1): S-I

OCCUPANCY (TENANT SPACE)

CLASSIFICATION (302.1): S-I  
ACCESSORY USES (508.2.1): B  
NON-SEPARATED USES (508.3.2): N/A  
SEPARATED USES (508.3.3): N/A

AUTOMATIC SPRINKLER SYSTEM

SPRINKLER SYSTEM REQUIRED (903): YES  
SPRINKLER SYSTEM PROVIDED: YES / ESR

ALLOWABLE BUILDING HEIGHT

TABULAR HEIGHT (503): 2 STORY

ALLOWABLE BUILDING AREA

TABULAR AREA (503): 17,500 SF

BUILDING AREA INCREASE

INCREASE FOR SPRINKLERED BUILDING (506.3): 300%  
UNLIMITED AREA (507): UNLIMITED  
FRONTAGE INCREASE (506.2): N/A  
If = (FP + 25) x W / 30  
TOTAL ALLOWABLE AREA WITH INCREASES:  
A<sub>2</sub> = A<sub>t</sub> + (A<sub>c</sub> x If) + (A<sub>c</sub> x Is)  
A<sub>2</sub> = FILL IN

ACTUAL BUILDING HEIGHT AND AREA

BUILDING AREA: 433,301 SF  
BUILDING HEIGHT (FEET / # FLOORS): 45'-6" / 1 FLR

TABULAR OCCUPANT LOAD (1004.1.2)

OCCUPANT LOAD FACTOR: 1 / 500

ACTUAL OCCUPANT LOAD (1004.1.2)

SQUARE FOOTAGE / OCCUPANT LOAD FACTOR: 433301 / 500  
TOTAL OCCUPANTS: 867

FIRE RESISTIVE REQUIREMENTS (601 AND 602)

CONSTRUCTION TYPE: II-B  
STRUCTURAL FRAME: NR  
EXTERIOR BEARING WALLS: NR  
INTERIOR BEARING WALLS: NR  
EXTERIOR NON-BEARING WALLS: NR  
INTERIOR NON-BEARING WALLS: NR  
FLOOR CONSTRUCTION: NR  
ROOF CONSTRUCTION: NR  
SHAFTS: N/A

FIRE RESISTANCE RATED CONSTRUCTION (704, 601, 402)

RATED EXTERIOR WALLS: N/A  
FIRE SEPARATION DISTANCE: 60' +  
UNPROTECTED OPENING AREA: N/A

INTERIOR WALL AND CEILING FINISH REQUIREMENTS (803)

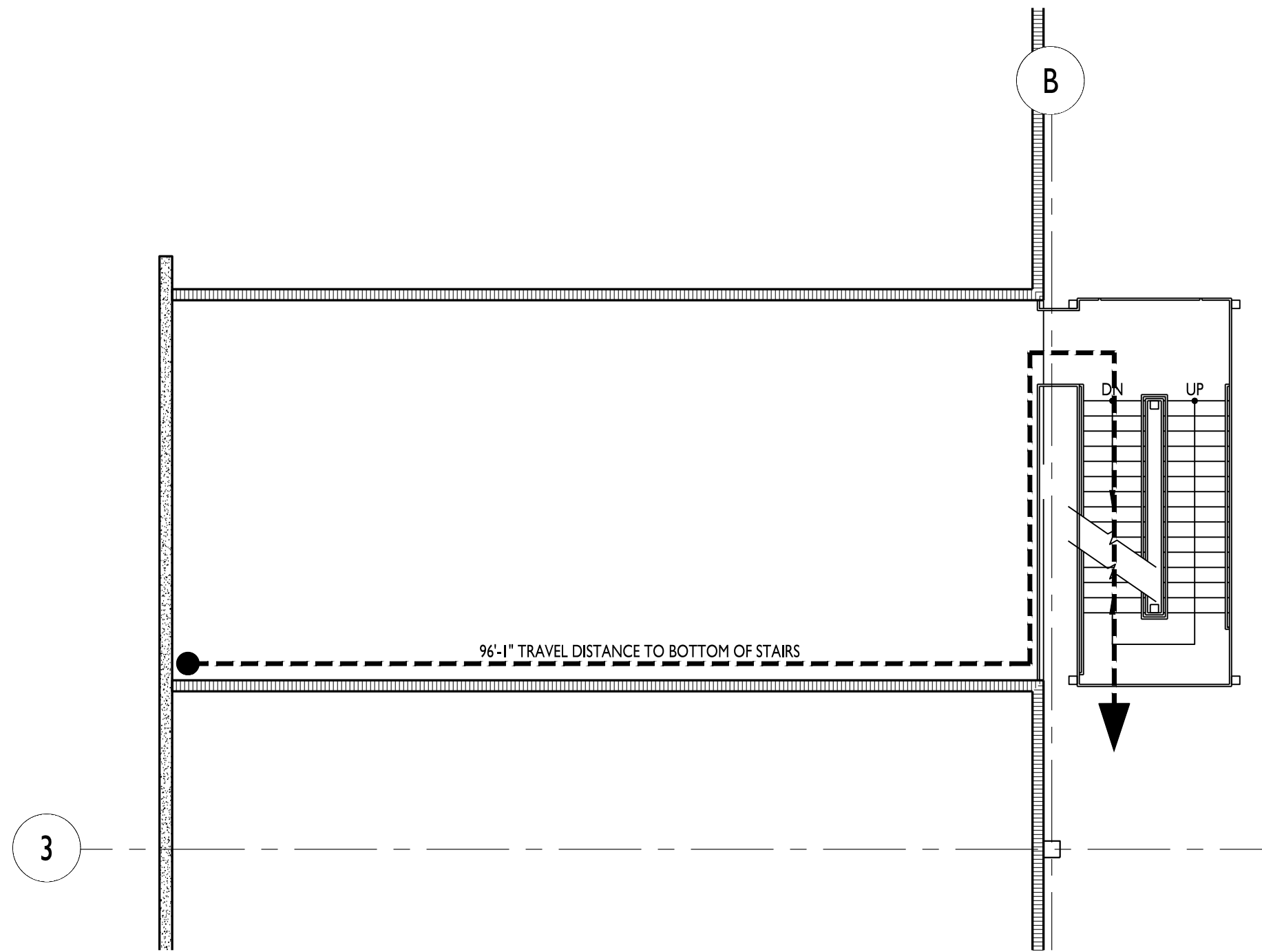
SEE FINISH SCHEDULE FOR MATERIALS  
ALL MATERIALS ARE CLASS A RATED

FIRE PROTECTION SYSTEMS

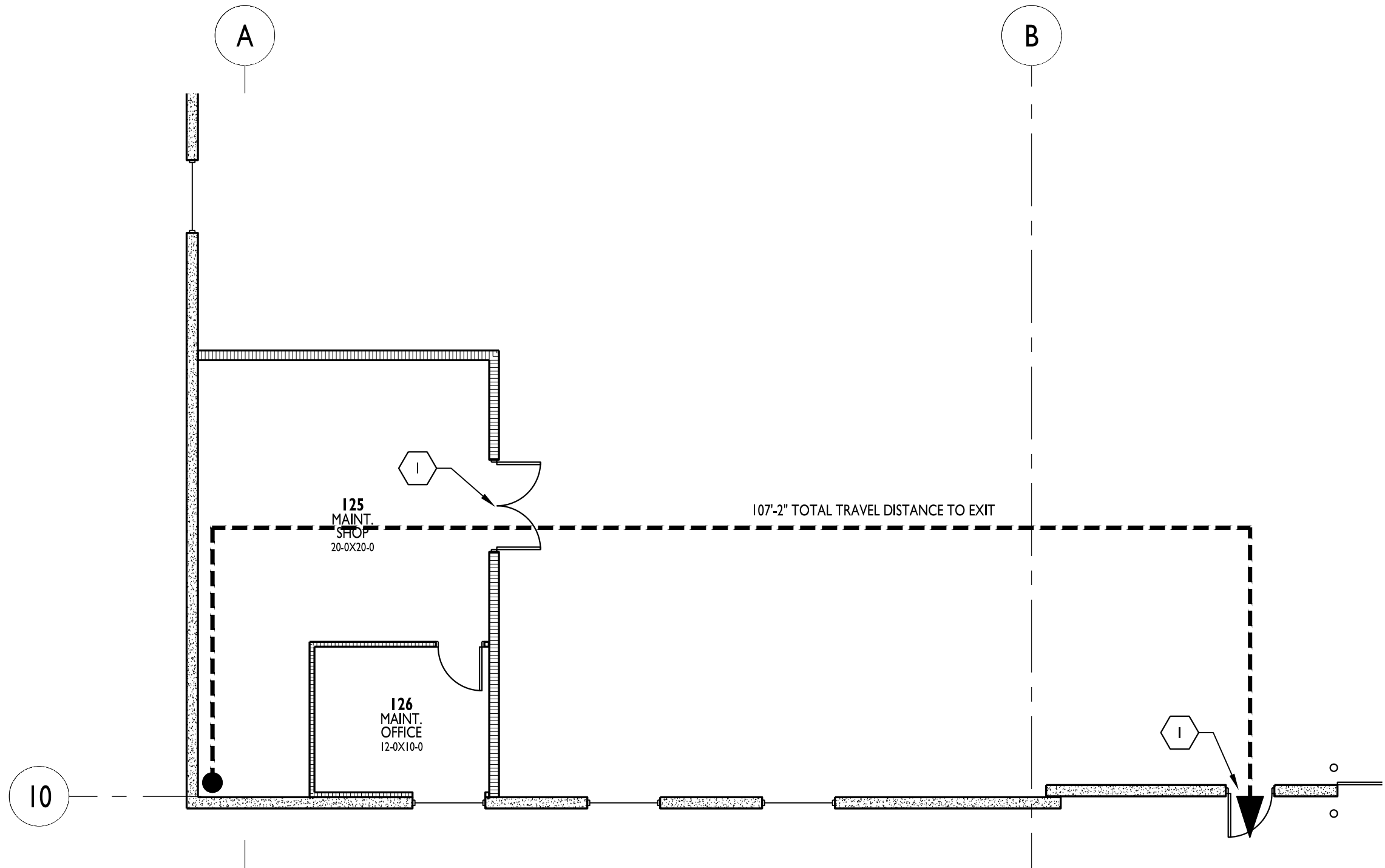
STANDPIPE SYSTEM (905): YES  
PORTABLE FIRE EXTINGUISHERS (906.1): BY TENANT  
FIRE ALARM AND DETECTION SYSTEMS (907): YES  
SMOKE CONTROL SYSTEMS (909): N/A  
SMOKE AND HEAT VENTS (910): N/A

EGRESS

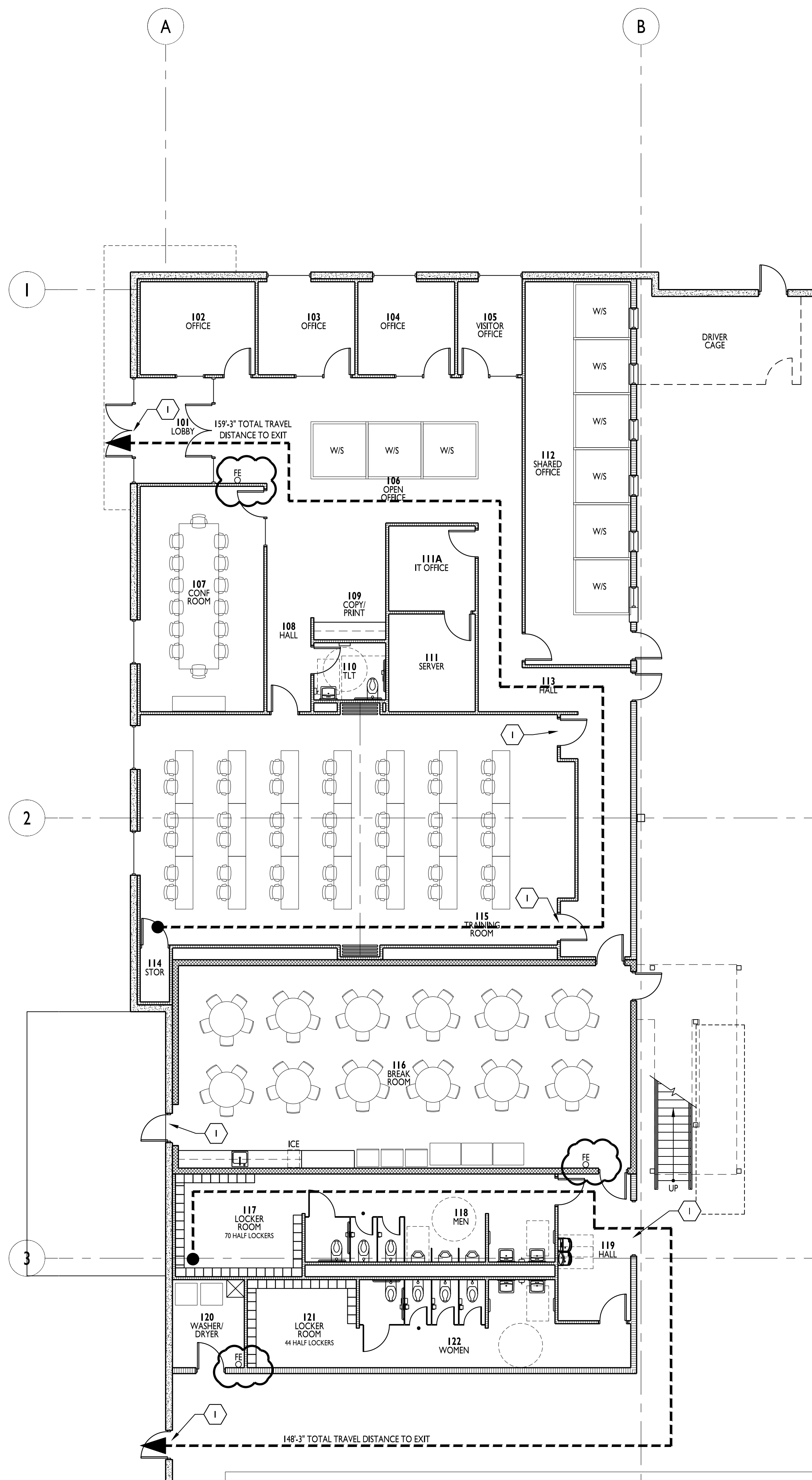
MINIMUM WIDTH FACTOR (1005.1): 0.15  
REQUIRED MINIMUM WIDTH FROM SPACE (1005.1): 130.05"  
MINIMUM NUMBER OF EXITS (1015): 3  
ACTUAL NUMBER OF EXITS: 20  
ACTUAL WIDTH OF EXITS: 792"  
ALLOWABLE TRAVEL DISTANCE (1016.2): 400'  
CORRIDOR CONSTRUCTION (1018.1): NR  
MINIMUM CORRIDOR WIDTH (1018.2): 44"  
MAXIMUM DEAD END CORRIDOR (1018.4): 20'



MEZZANINE LIFE SAFETY PLAN 2  
1/8" = 1'-0" N

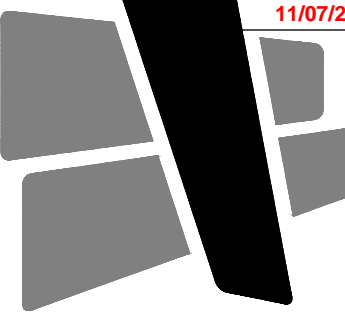


ENLARGED LIFE SAFETY PLAN 2  
1/8" = 1'-0" N



ENLARGED LIFE SAFETY PLAN 1  
1/8" = 1'-0" N





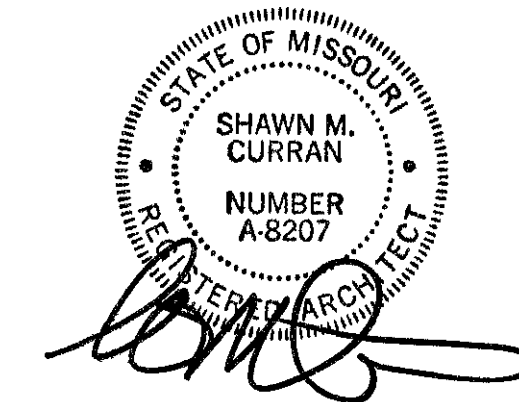
# CURRAN ARCHITECTURE

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SCANNELL  
PROPERTIES

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## PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

NW CORNER OF  
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LEE'S SUMMIT, MO 64086

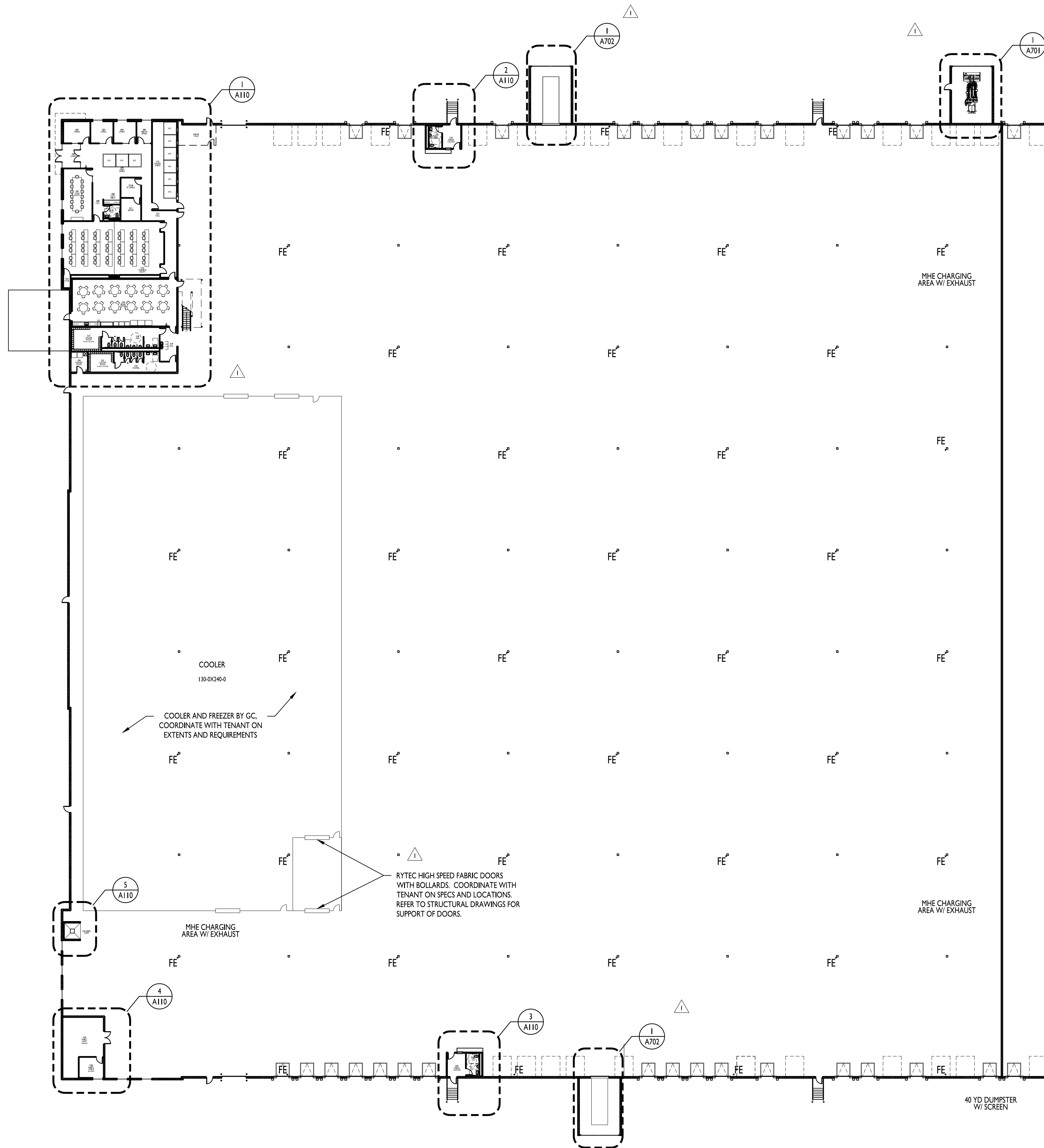
## ISSUE DATES

PERMIT SET	02.18.22
REVISIONS	06.14.22
PERMIT COMMENTS	10.24.22


210300

1st FLOOR PLAN  
BUILD OUT

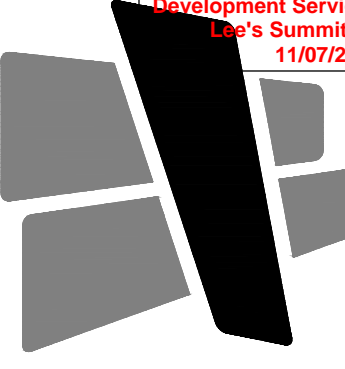
# A109



1st FLOOR PLAN

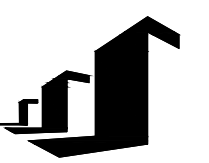






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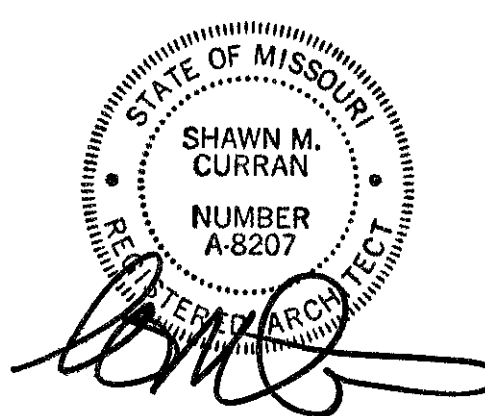
## GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS NOTED IN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
- ALL DIMENSIONS SHOWN ARE FACE OF BRICK, MASONRY OR METAL STUD FRAMING, UNLESS OTHERWISE NOTED.
- PROVIDE DEEP LEG DEFLECTION TRACK AT ALL METAL STUD CONNECTIONS WITH STRUCTURE ABOVE, TYPICAL.
- PROVIDE FIRE RATED WOOD BLOCKING IN METAL STUD WALLS FOR ANY WALL SUPPORTED ITEMS.
- PROVIDE APPROVED FIRE RATED STOPPING MATERIALS IN ANY OPENINGS IN FIRE RATED ASSEMBLIES.
- REFER TO DOOR AND WINDOW SCHEDULES FOR ALL MATERIALS, FINISHES, AND HARDWARE INFORMATION.
- REFER TO EXTERIOR ELEVATIONS FOR ALL BRICK, MASONRY, AND OTHER EXPANSION JOINT LOCATIONS.
- ALL MATERIALS LOCATED IN CEILING PLENUM SHALL BE RATED FOR SUCH INSTALLATION OR PROTECTED TO PROVIDE COMPLIANCE. THIS INCLUDES BUT IS NOT LIMITED TO INSULATION (FHC 25/50) POWER AND LOW VOLTAGE WIRING, TELECOMMUNICATIONS CABLING, PLUMBING SUPPLY AND DRAIN LINES AND SUPPORTING BRACKETS AND/OR BLOCKING FOR CEILING HUNG ITEMS.
- PRIOR TO ORDERING ANY PRODUCTS, CONTRACTOR SHALL SUBMIT SAMPLES TO THE ARCHITECT OF ALL FINISH MATERIALS TO BE USED ON THE PROJECT. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ANY MATERIALS ORDERED INCORRECTLY WHEN THAT MATERIAL WAS NOT REVIEWED BY THE ARCHITECT.
- PROVIDE CONCRETE FILLED STEEL PIPE BOLLARDS AT ALL REQUIRED UTILITY EQUIPMENT LOCATIONS SUCH AS GAS METERS, ELECTRICAL TRANSFORMER PANELS, ETC. COORDINATE WITH UTILITY COMPANY AND CONTRACTORS, WHEN APPLICABLE, FOR NECESSARY LOCATIONS. REFER TO CIVIL DRAWINGS FOR BOLLARD SPECIFICATIONS AND ADDITIONAL INFORMATION.
- ALL DOORS, UNLESS OTHERWISE NOTED, TO HAVE HINGE SIDE SET 4" FROM CORNER SHOWN TO OUTSIDE OF FRAME.
- UNLESS SPECIFIED ELSEWHERE, ALL INTERIOR SLABS AND SLAB INFILLS TO BE FF-50/FL-35 OVERALL AND FF-35/FL-25 LOCAL.
- ALL EXIT DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009.

## KEYED NOTES

- ADA COMPLIANT WALL MOUNTED LAVATORY. PROVIDE SCALD GUARDS ON SUPPLY / WASTE LINE. REFER TO PLUMBING DWGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
- ADA COMPLIANT WALL MOUNT FLUSH VALVE TOILET. REFER TO PLUMBING DWGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
- ADA COMPLIANT WALL MOUNTED URINAL W/ FLUSH VALVE CONTROL. CENTER IN WIDTH OF STALL. REFER TO PLUMBING DRAWINGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
- STANDARD HEIGHT URINAL. CENTER IN WIDTH OF PARTITIONS (OR WALL).
- STANDARD HEIGHT URINAL. CENTER IN WIDTH OF PARTITIONS (OR WALL).
- WALL MOUNTED LAVATORY. MATCH HEIGHT OF ADA LAVATORIES
- ADA COMPLIANT H-L-O WATER FOUNTAIN.
- ALIGN FINISH FACE OF WALL, BOTH SIDES.
- WASHER & DRYER.
- 8'-0" TALL GALVANIZE D FENCE. PROVIDE GATE PER DETAIL 4/A504.
- PLASTIC LAMINATE 12" WIDE COUNTER. CENTER ON WIDTH OF WALL
- PASS THRU CABINET W/ DOORS ON BOTH SIDES SEE 6/A504. CENTER ON WIDTH OF WALL
- MODERN FOLD PAIRED PANEL PARTITION W/ VINYL FACE, MIN 51 STC RATING. COORDINATE ALCOVE DIMENSIONS W/ SUPPLIER.
- PROVIDE FR BLOCKING FOR TENANT PROVIDED TV.
- STRUCTURAL STEEL COLUMN.
- HALF HEIGHT LOCKERS 12" x 12" w/ 4" CURB & SLOPED TOP. PROVIDE 2 ADA COMPLIANT LOCKERS IN EACH ROOM.
- WALL MOUNT SHELF. REFER TO 5/A504.
- STEEL STAIRS. PAINT SAFETY YELLOW. REFER TO 1/A505.
- 2' x 2' MOP SINK w/ WALL MOUNT FAUCET.
- PRECAST PLANK ON CMU WALL WITH TOPPING SLAB. TOP OF SLAB AT 11'-8" AFF. REFER TO STRUCTURAL DRAWINGS
- BAR JOIST ROOF FRAMING ABOVE. COORDINATE WITH STRUCTURAL DRAWINGS
- ALIGN FINISH FACE OF GYP BOARD WITH FACE OF CMU WALL
- 1 1/2" DIA 42" TALL STEEL GUARDRAIL WITH VERTICAL PICKETS AT 4" OC MAX. PAINTED SAFETY YELLOW. ANCHOR INTO PRECAST PLANK. REFER TO 2/A505
- 4" TALL CMU WALL WITH BULLNOSE TOP AND OUTER EDGES. PAINT WITH EPOXY PAINT.
- FLOOR SLAB TO SLOPE TO CATCH BASIN. REFER TO PLUMBING DRAWINGS FOR WATER SUPPLY AND DRAIN
- PROVIDE INSULATED STEEL DOOR AT PENTHOUSE, FACING SOUTH. DOOR #200 ON SCHEDULE.

## CERTIFICATION



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## PROJECT INFORMATION

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BUILDING A LOT I**

NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086


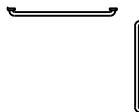

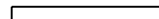




## ISSUE DATES

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REVISIONS	06.14.22

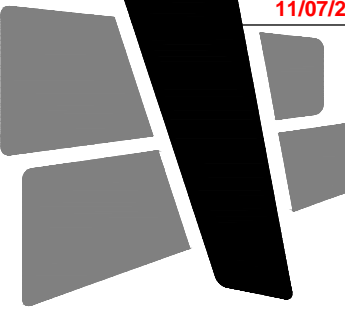
210300

ENLARGED  
FLOOR PLANS

**A110**

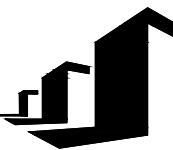
TOILET ACCESSORY SCHEDULE			
MARK	SYMBOL	MFR #	DESCRIPTION
TT1		BOBRICK B-2888	MULTI-ROLL TOILET TISSUE DISPENSER
GB1		BOBRICK B-5806 X 36 B-5806 X 42	36" AND 42" GRAB BARS
GB2		BOBRICK B-5806 X 18	18" VERTICAL GRAB BAR
MI		BOBRICK B-165	MIRROR 2'-0" X 4'-0"
TD1		BOBRICK B-3944	TOWEL DISPENSER / WASTE RECEPTACLE
SD1		BOBRICK B-2112	SOAP DISPENSER
ND1		BOBRICK B-353 B-270	B-353: SANITARY NAPKIN DISPOSAL UNIT AT GWS LOCATIONS. B-270: SURFACE MOUNT SANITARY NAPKIN DISPOSAL UNIT AT PARTITIONS
TP1		GENERAL PARTITION	TOILET PARTITION AND/OR URINAL SCREEN POWDER COATED URINAL SCREEN BOTTOM 12" FROM FLOOR AND TOP 60" MAX FROM FLOOR





**CURRAN**  
ARCHITECTURE

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**SCANNELL**  
PROPERTIES

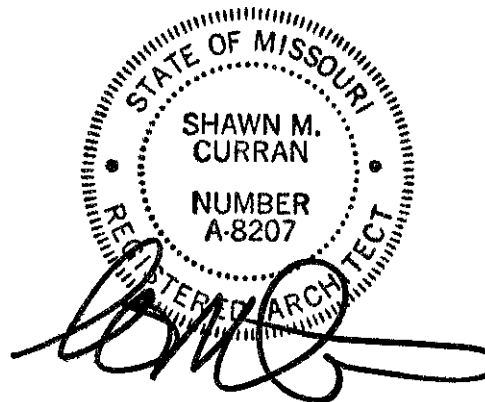
## GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS NOTED IN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
- ALL DIMENSIONS SHOWN ARE FACE OF BRICK, MASONRY OR METAL STUD FRAMING, UNLESS OTHERWISE NOTED.
- PROVIDE DEEP LEG DEFLECTION TRACK AT ALL METAL STUD CONNECTIONS WITH STRUCTURE ABOVE, TYPICAL.
- PROVIDE FIRE RATED WOOD BLOCKING IN METAL STUD WALLS FOR ANY WALL SUPPORTED ITEMS.
- PROVIDE APPROVED FIRE RATED STOPPING MATERIALS IN ANY OPENINGS IN FIRE RATED ASSEMBLIES.
- REFER TO DOOR AND WINDOW SCHEDULES FOR ALL MATERIALS, FINISHES, AND HARDWARE INFORMATION.
- REFER TO EXTERIOR ELEVATIONS FOR ALL BRICK, MASONRY, AND OTHER EXPANSION JOINT LOCATIONS.
- ALL MATERIALS LOCATED IN CEILING PLENUM SHALL BE RATED FOR SUCH INSTALLATION OR PROTECTED TO PROVIDE COMPLIANCE. THIS INCLUDES BUT IS NOT LIMITED TO INSULATION (FHC 25/50) POWER AND LOW VOLTAGE WIRING, TELECOMMUNICATIONS CABLING, PLUMBING SUPPLY AND DRAIN LINES AND SUPPORTING BRACKETS AND/OR BLOCKING FOR CEILING HUNG ITEMS.
- PRIOR TO ORDERING ANY PRODUCTS, CONTRACTOR SHALL SUBMIT SAMPLES TO THE ARCHITECT OF ALL FINISH MATERIALS TO BE USED ON THE PROJECT. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ANY MATERIALS ORDERED INCORRECTLY WHEN THAT MATERIAL WAS NOT REVIEWED BY THE ARCHITECT.
- PROVIDE CONCRETE FILLED STEEL PIPE BOLLARDS AT ALL REQUIRED UTILITY EQUIPMENT LOCATIONS SUCH AS GAS METERS, ELECTRICAL TRANSFORMER PANELS, ETC.. COORDINATE WITH UTILITY COMPANY AND CONTRACTORS, WHEN APPLICABLE, FOR NECESSARY LOCATIONS. REFER TO CIVIL DRAWINGS FOR BOLLARD SPECIFICATIONS AND ADDITIONAL INFORMATION.
- ALL DOORS, UNLESS OTHERWISE NOTED, TO HAVE HINGE SIDE SET 4" FROM CORNER SHOWN TO OUTSIDE OF FRAME.
- UNLESS SPECIFIED ELSEWHERE, ALL INTERIOR SLABS AND SLAB INFILLS TO BE FF-50/FL-35 OVERALL AND FF-35/FL-25 LOCAL.
- ALL EXIT DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009.

## KEYED NOTES

- ADA COMPLIANT WALL MOUNTED LAVATORY. PROVIDE SCALD GUARDS ON SUPPLY / WASTE LINE. REFER TO PLUMBING DWGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
- ADA COMPLIANT WALL MOUNT FLUSH VALVE TOILET. REFER TO PLUMBING DWGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
- ADA COMPLIANT WALL MOUNTED URINAL W/ FLUSH VALVE CONTROL. CENTER IN WIDTH OF STALL. REFER TO PLUMBING DRAWINGS. SEE TYPICAL ACCESSIBILITY DETAILS FOR ACCESSIBLE MOUNTING INFORMATION.
- STANDARD HEIGHT URINAL. CENTER IN WIDTH OF PARTITIONS (OR WALL).
- STANDARD HEIGHT URINAL. CENTER IN WIDTH OF PARTITIONS (OR WALL).
- WALL MOUNTED LAVATORY. MATCH HEIGHT OF ADA LAVATORIES
- ADA COMPLIANT H2O WATER FOUNTAIN.
- ALIGN FINISH FACE OF WALL, BOTH SIDES.
- WASHER & DRYER.
- 8'-0" TALL GALVANIZE D FENCE. PROVIDE GATE PER DETAIL 4/A504.
- PLASTIC LAMINATE 12" WIDE COUNTER. CENTER ON WIDTH OF WALL.
- PASS THRU CABINET W/ DOORS ON BOTH SIDES SEE 6/A504. CENTER ON WIDTH OF WALL.
- MODERN FOLD PAIRED PANEL PARTITION W/ VINYL FACE, MIN 51 STC RATING. COORDINATE ALCOVE DIMENSIONS W/ SUPPLIER.
- PROVIDE FR BLOCKING FOR TENANT PROVIDED TV.
- STRUCTURAL STEEL COLUMN.
- HALF HEIGHT LOCKERS 12" x 12" w/ 4" CURB & SLOPED TOP. PROVIDE 2 ADA COMPLIANT LOCKERS IN EACH ROOM.
- WALL MOUNT SHELF. REFER TO 5/A504.
- STEEL STAIRS. PAINT SAFETY YELLOW. REFER TO 1/A505.
- 2' x 2' MOP SINK w/ WALL MOUNT FAUCET.
- PRECAST PLANK ON CMU WALL WITH TOPPING SLAB. TOP OF SLAB AT 11'-8" AFF. REFER TO STRUCTURAL DRAWINGS
- BAR JOIST ROOF FRAMING ABOVE. COORDINATE WITH STRUCTURAL DRAWINGS
- ALIGN FINISH FACE OF GYP BOARD WITH FACE OF CMU WALL.
- 1 1/2" DIA 42" TALL STEEL GUARDRAIL WITH VERTICAL PICKETS AT 4" OC MAX. PAINTED SAFETY YELLOW. ANCHOR INTO PRECAST PLANK. REFER TO 2/A505
- 4" TALL CMU WALL WITH BULLNOSE TOP AND OUTER EDGES. PAINT WITH EPOXY PAINT.
- FLOOR SLAB TO SLOPE TO CATCH BASIN. REFER TO PLUMBING DRAWINGS FOR WATER SUPPLY AND DRAIN
- PROVIDE INSULATED STEEL DOOR AT PENTHOUSE, FACING SOUTH. DOOR #200 ON SCHEDULE.

## CERTIFICATION



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## PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086

## ISSUE DATES

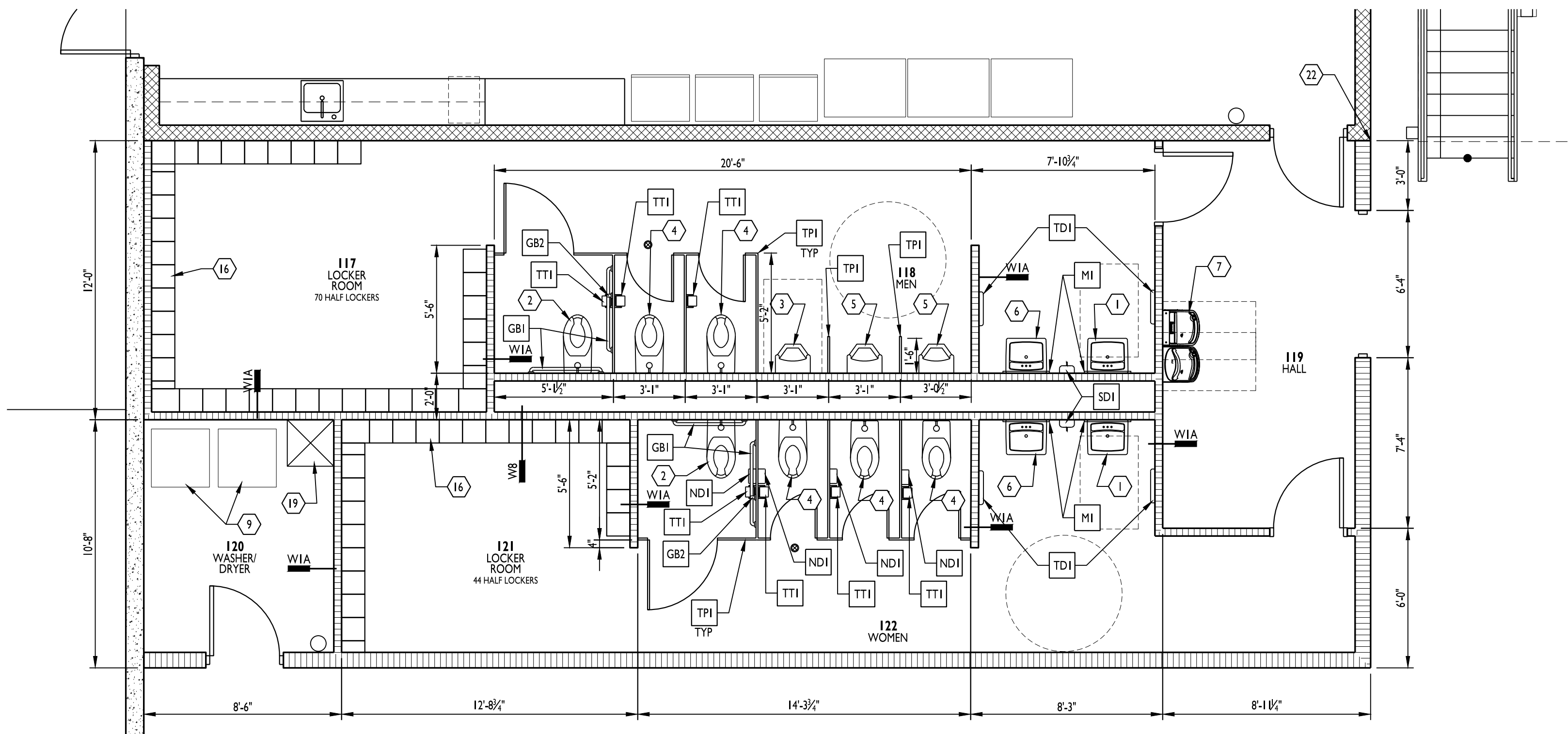
PERMIT SET	02.18.22
PERMIT COMMENTS	10.24.22

210300

ENLARGED  
FLOOR PLANS

**AIII**

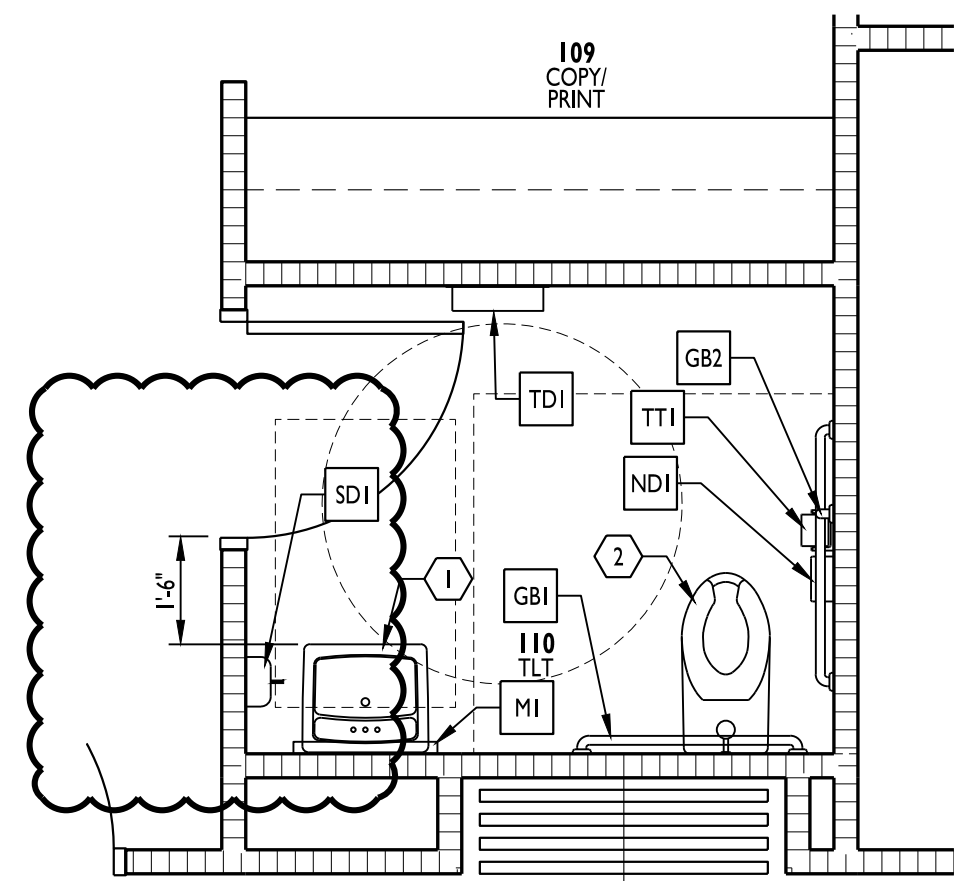
TOILET ACCESSORY SCHEDULE			
MARK	SYMBOL	MFR #	DESCRIPTION
TT1		BOBRICK B-2888	MULTI-ROLL TOILET TISSUE DISPENSER
GB1		BOBRICK B-5806 X 36 B-5806 X 42	36" AND 42" GRAB BARS
GB2		BOBRICK B-5806 X 18	18" VERTICAL GRAB BAR
MI		BOBRICK B-165	MIRROR 2'-0" X 4'-0"
TD1		BOBRICK B-3944	TOWEL DISPENSER / WASTE RECEPTACLE
SD1		BOBRICK B-2112	SOAP DISPENSER
ND1		BOBRICK B-353 B-270	B-353: SANITARY NAPKIN DISPOSAL UNIT AT GWB LOCATIONS. B-270: SURFACE MOUNT SANITARY NAPKIN DISPOSAL UNIT AT PARTITIONS
TPI		GENERAL PARTITION	TOILET PARTITION AND/OR URINAL SCREEN POWDER COATED URINAL SCREEN BOTTOM 12" FROM FLOOR AND TOP 60" MAX FROM FLOOR



ENLARGED RESTROOM PLAN

1

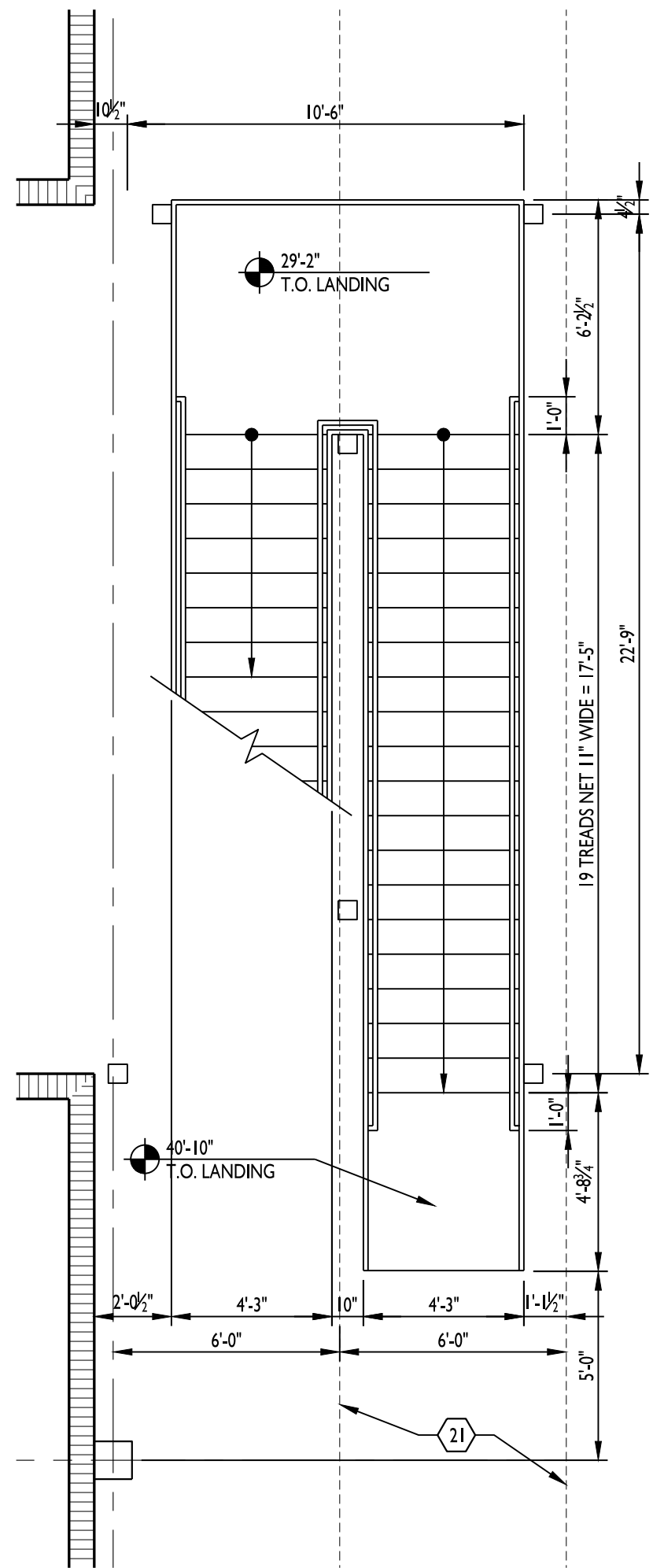
1/4" = 1'-0"



ENLARGED RESTROOM PLAN

2

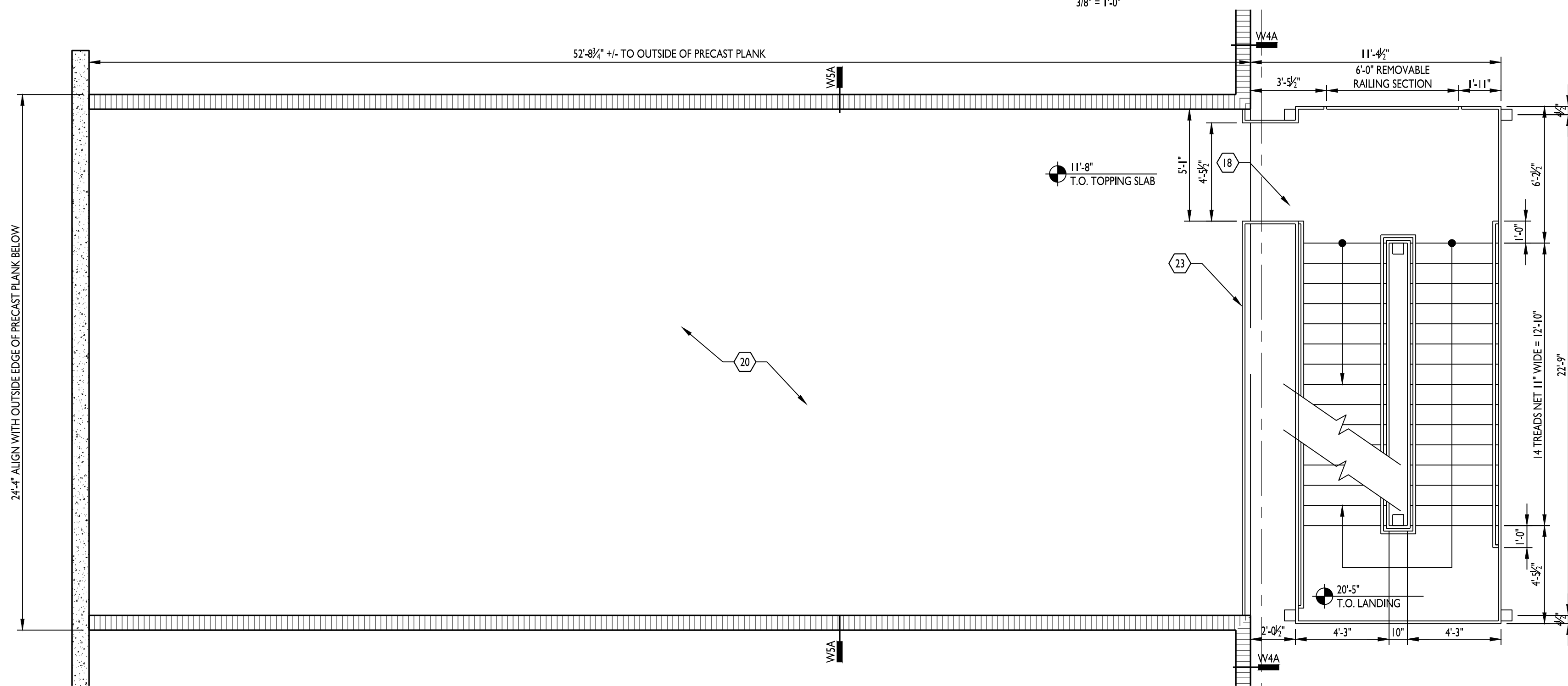
3/8" = 1'-0"



UPPER STAIR PLAN

4

1/4" = 1'-0"



MEZZANINE PLAN

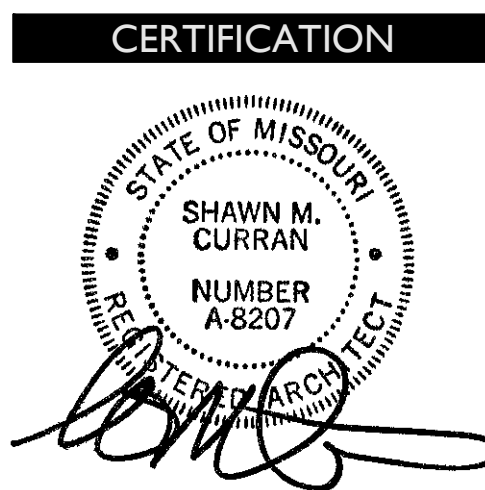
3

1/4" = 1'-0"





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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I  
  
NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086

ISSUE DATES

PERMIT SET	02.18.22

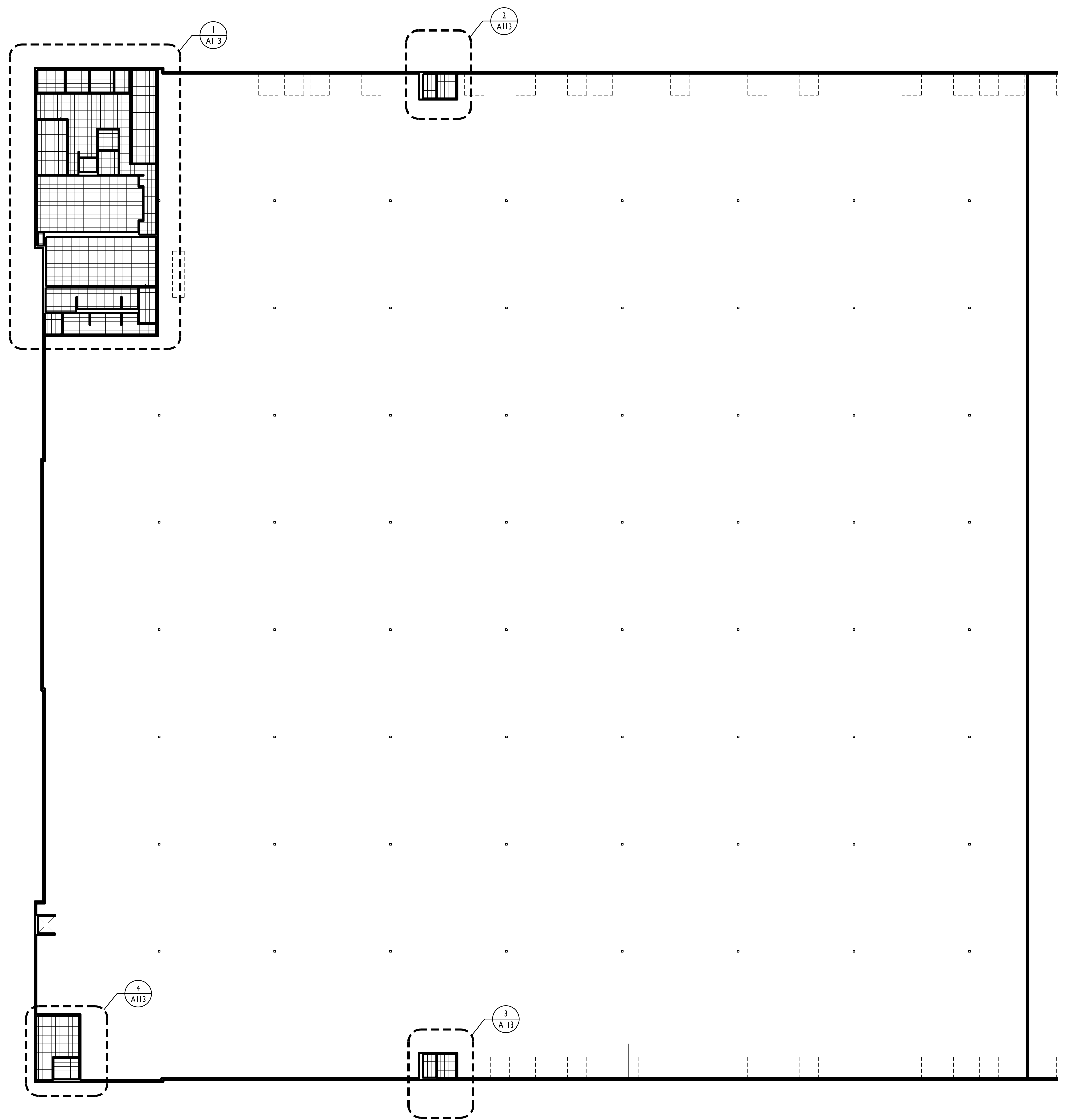
210300

OVERALL REFLECTED  
CEILING PLAN

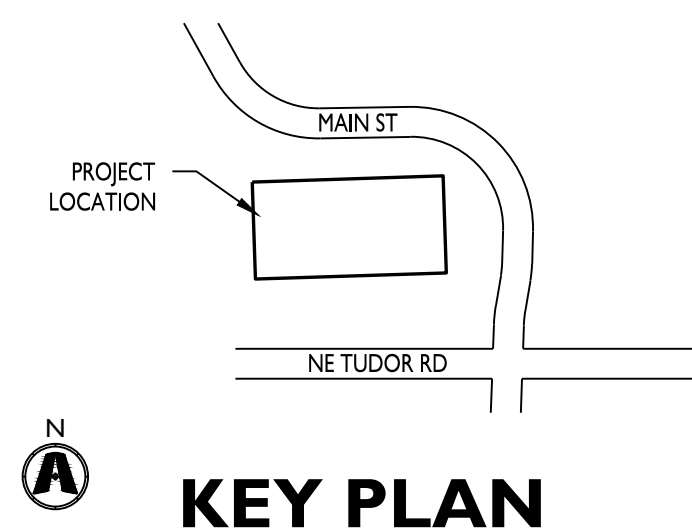
**A112**

CEILING LEGEND  
(NOT ALL MAY APPLY)

- ACOUSTICAL TILE CEILING / GRID. REFER TO FINISH SCHEDULE FOR TYPE AND HEIGHT.
- GYPSUM BOARD BULKHEAD OR CEILING. HEIGHT AS NOTED ON SCHEDULE OR KEYNOTES.



REFLECTED CEILING PLAN  
1" = 30' N



KEY PLAN





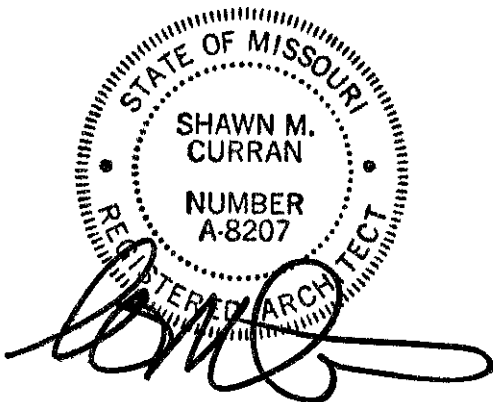
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086

ISSUE DATES

PERMIT SET 02.18.22

210300

ENLARGED REFLECTED  
CEILING PLANS

A113

CEILING LEGEND

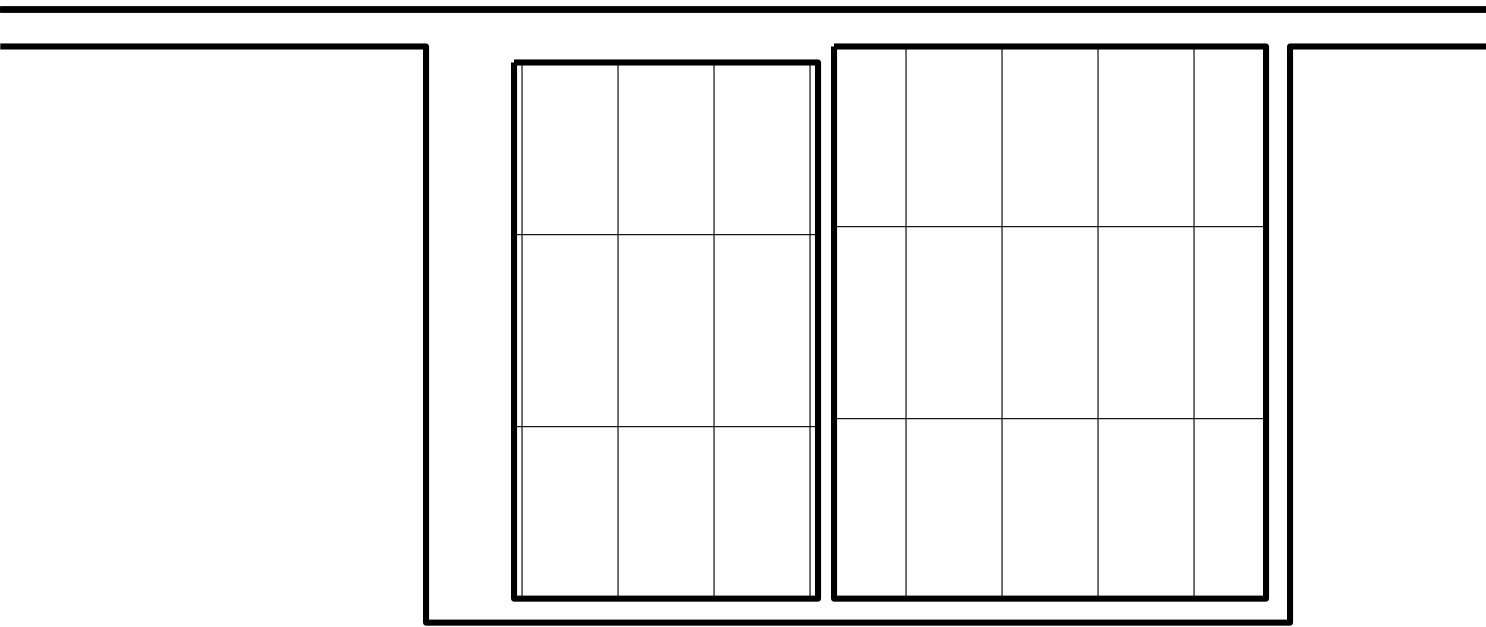
(NOT ALL MAY APPLY)



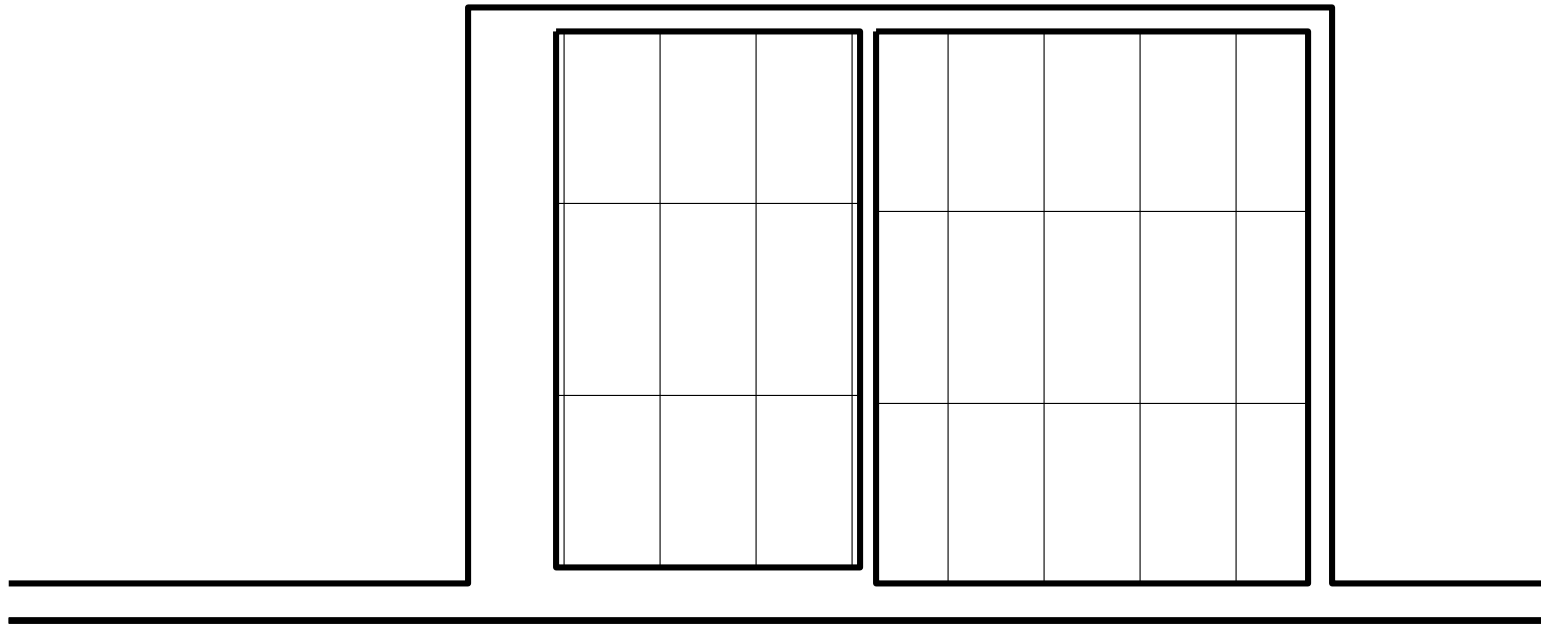
ACOUSTICAL TILE CEILING / GRID. REFER TO FINISH  
SCHEDULE FOR TYPE AND HEIGHT.



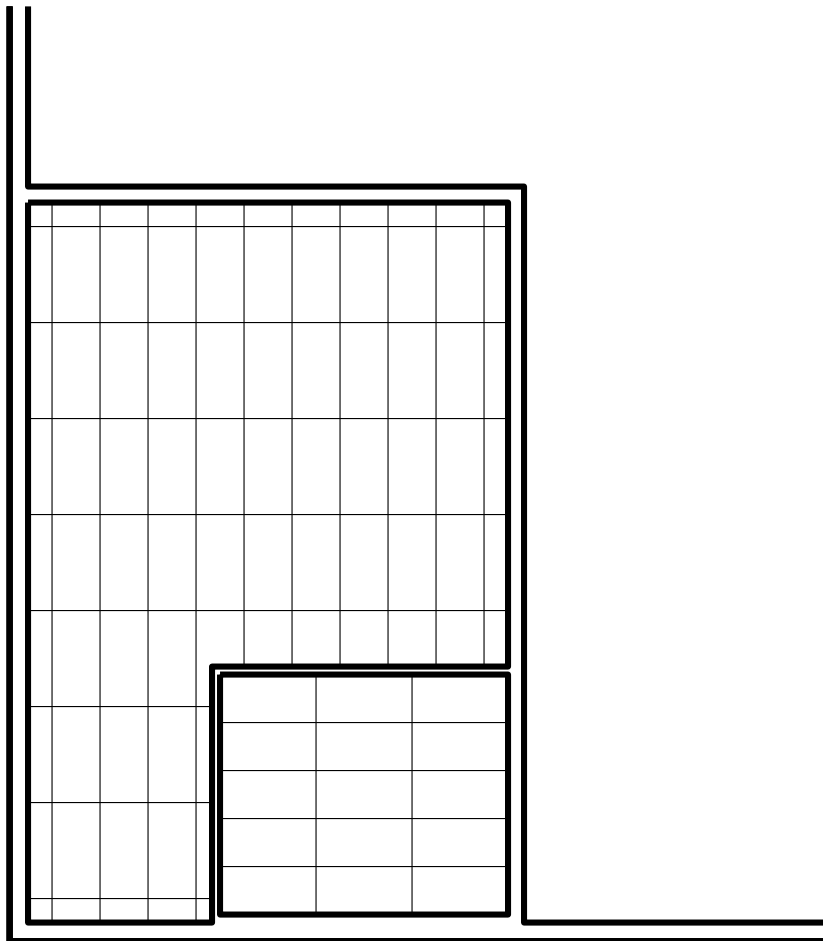
GYPSUM BOARD BULKHEAD OR CEILING. HEIGHT  
AS NOTED ON SCHEDULE OR KEYNOTES.



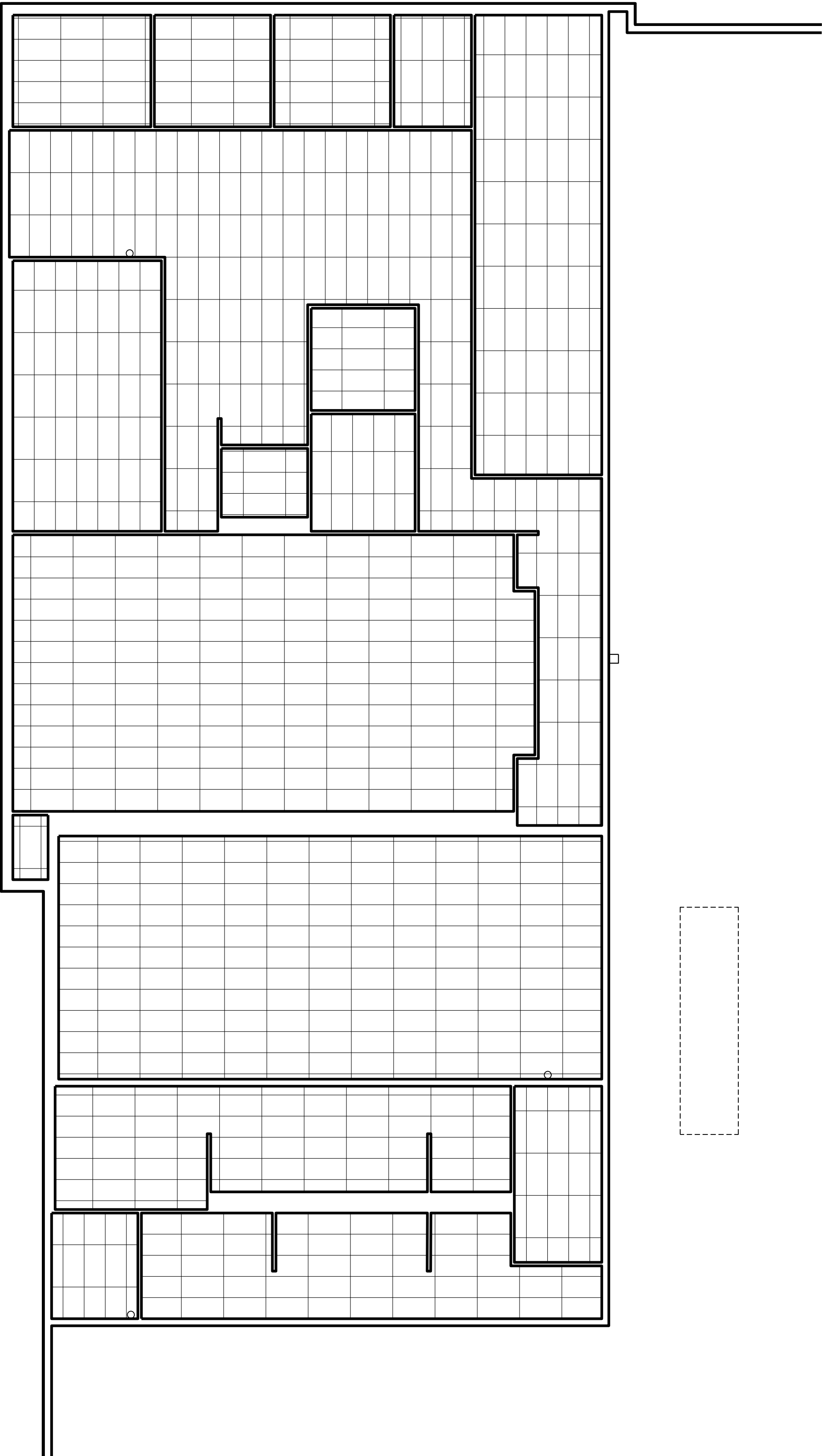
ENLARGED REFLECTED CEILING PLAN 2  
1/4" = 1'-0" N



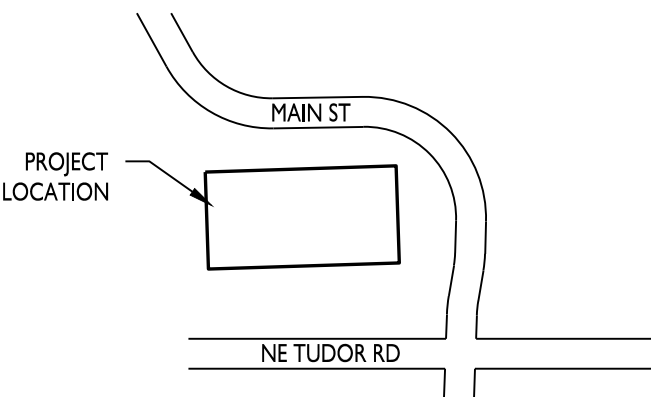
ENLARGED REFLECTED CEILING PLAN 3  
1/4" = 1'-0" N



ENLARGED REFLECTED CEILING PLAN 4  
1/8" = 1'-0" N

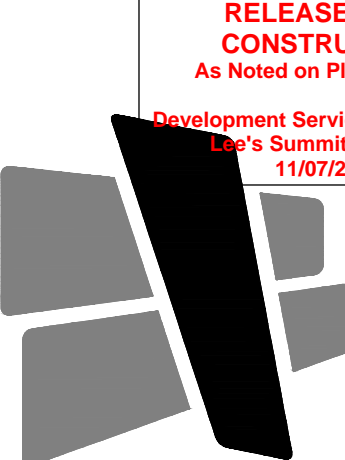


ENLARGED REFLECTED CEILING PLAN 1  
1/8" = 1'-0" N



KEY PLAN





# CURRAN ARCHITECTURE

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## PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

NW CORNER OF  
NE DUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086

## ISSUE DATES

PERMIT SET	02.18.22
PERMIT COMMENTS	10.24.22

210300

RATED WALL  
INFORMATION

# A305

BOXUV-U465 - Fire Resistance Ratings - ANSUL 263

Insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions included with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

**NU-WOOL CO INC** – Cellulose Insulation

**3C. Fiber, Sprayed\*** – As an alternate to Batts and Blankets (Item 3) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft<sup>3</sup>.

**INTERNATIONAL CELLULOSE CORP** – Celbar-RL

**3D. Batts and Blankets\*** – For use with Item 8, Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit between the studs and floor and ceiling runners.

See **Batts and Blankets** (B212) category for names of manufacturers.

**4. Gypsum Board\*** – 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC, along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to Item 6 (resilient channels) or 6A or 6C (furring channels), gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.

**ACADIA DRYWALL SUPPLIES LTD** – Type X

**AMERICAN GYPSUM CO** – Types AG-C, AGX-1, M-Glass

**BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO** – Type DBX-1.

**CGC INC** – Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC or WRX.

**CERTAINTED GYPSUM, INC** – Type 1, EGRG, GlasRoc, Type X, Type C, SilentFlex, 5/8" East-Lite Type X.

**CERTAINTED GYPSUM CANADA INC** – Type C, Type X, Type Abuse-Resistant, 5/8" East-Lite Type X.

**GEORGIA-PACIFIC GYPSUM L L C** – Types 5, 6, 9, C, DAP, DD, DAPC, DGG, DS, GPF56, LS.

**LAFARGE NORTH AMERICA INC** – Types LGFC2, LGFC2A, LGFC6, LGFC6A, LGFC-C, LGFC-C/A, LGFC-WD, LGLX.

**NATIONAL GYPSUM CO** – Types FSK-C, FSK-C, FSW-C, FSW-G, FSW-3, FSW-5, FSW-6, FSL.

**PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** – Types PG-C, PG-9, PG-11, PG5-WRS.

**PANEL REY S A** – Types GREX, PRX, RHX, MDX, ETX.

**SIAM GYPSUM INDUSTRY (SARABURI) CO LTD** – Type EX-1

**TEMPLE-INLAND** – Type X, Vener Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board.

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BOXUV-U465 - Fire Resistance Ratings - ANSUL 263

**STUCCO BUILDING SYSTEMS** – RESIMOUNT Sound Isolation Clips - Type A237R

fitted into clips.

**7. Wall and Partition Facings and Accessories\*** – (Optional, Not shown) – Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-512 panel is installed between the steel framing and the UL Classified gypsum board layer(s) before to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

**SERIOUS ENERGY INC** – Type QuietRock QR-510.

**8. Mineral and Fiber Board\*** – (Optional, Not shown) – For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer (Item 4A) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required.

**9. Lead Batten Strips** – (Not Shown, For Use With Item 4E) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grades "A, B, C or D". Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grades "A, B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum board (Item 4E) and optional at remaining stud locations. Required behind vertical joints.

**9A. Lead Batten Strips** – (Not Shown, For Use With Item 4E) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long, min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long, min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201F, Grades "A, B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4E) and optional at remaining stud locations.

**10. Lead Discs or Tabs** – (Not Shown, For Use With Item 4E) - Used in lieu of or in addition to the lead batten strips (Item 8) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.9% meeting the Federal Specification QQ-L-201F, Grades "A, B, C or D".

**11. Adhesive** – Not Shown - (For use with Item 8) - Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 8).

\*Bearing the UL Classification Mark

Last Updated on 2013-06-07

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BOXUV-U465 - Fire Resistance Ratings - ANSUL 263

floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

**2D. Framing Members\* – Steel Studs** – As an alternate to Items 2 through 2C. For use with Item 1D and 4G only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.

**CLARKDIETRICH BUILDING SYSTEMS** – CD ProSTUD

**DMFCWS L L C** – ProSTUD

**RMA BUILDING SUPPLIES** – ProSTUD

**MSA SALES L L C** – Ram ProSTUD

**SOUTHEASTERN STUD & COMPONENTS INC** – ProSTUD

**STEEL STRUCTURAL SYSTEMS L L C** – Tri-S ProSTUD

**2E. Framing Members\* – Steel Studs** – As an alternate to Items 2 through 2D. For use with Item 1E and 4I only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.

**TELLING INDUSTRIES L L C** – TRUE-STUD™

**2F. Framing Members\* – Steel Studs** – As an alternate to Items 2 through 2E. For use with Item 1F, channel shaped steel, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.

**KIRRI (HONG KONG) LTD** – Type KIRRI

**2G. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 through 2F - For use with Item 1G. Proprietary channel shaped studs, minimum 3-5/8 in. wide, Studs to be cut 1/2 in. less than the assembly height.

**STUCCO BUILDING SYSTEMS** – CROSTUD

**2H. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1I, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**TELLING INDUSTRIES L L C** – Viper20™

**3. Batts and Blankets\*** – (Optional) – Mineral wool or glass fiber batts partially or completely filling stud cavity.

See **Batts and Blankets** (B212) category for names of Classified companies.

**3A. Fiber, Sprayed\*** – As an alternate to Batts and Blankets (Item 3) - As an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lbs/ft<sup>3</sup>. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lbs/ft<sup>3</sup>, in accordance with the application instructions supplied with the product.

**U S GREENFIBER L L C** – INS735 & INS745 for use with wet or dry application. INS765LD and INS770LD are to be used for dry application only.

**3B. Fiber, Sprayed\*** – As an alternate to Batts and Blankets (Item 3) and Item 3A - Spray applied cellulose

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BOXUV-U465 - Fire Resistance Ratings - ANSUL 263

**USG MEXICO S A DE C V** – Types C, IP-X2, IPC-AR

**5. Joint Tape and Compound** – Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paint base, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 1/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboards. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.

**6. Resilient Channel** – (Optional-Not Shown) – 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long Type S-12 pan head steel screws. Ray not be used with Item 4F or 4I.

**6A. Steel Framing Members (Not Shown)** – As an alternate to Item 6, furring channels and resilient sound isolation clip as described below.

**a. Furring Channels** – Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.

**b. Framing Members** – Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC, and secured to studs with 1-5/8 in. wide or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips.

**RSC-1 clip** for use with 2-9/16 in. wide furring channels. RSC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

**PAC INTERNATIONAL INC** – Types RSC-1, RSC-1 (2.75).

**6B. Framing Members\*** – Optional - Not Shown - Used as an alternate method to attach resilient channels (Item 6). Clips attached at each intersection of the resilient channel and the steel studs (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the stud with min. 1 in. long Type S-12 pan head steel screws through the center hole of the clip and the resilient channel flange.

**KEENE BUILDING PRODUCTS CO INC** – Type RC Assurance.

**6C. Framing Members\*** – (Not Shown) - (Optional on one or both sides) – As an alternate to Item 6, furring channel and Steel Framing Members as described below:

**a. Furring Channels** – Formed of No. 25 MSG galv steel, 2-9/16 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Gypsum board attached to furring channels as described in Item 4. Side joint furring channels shall be attached to studs with RESIMOUNT Sound Isolation Clips - Type A237R located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.

**b. Steel Framing Members\*** – Used to attach furring channels (Item 6C*a*) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

**PLITEQ INC** – Type Genie Clip

**6D. Steel Framing Members** – (Optional, Not Shown)\* - Furring channels and resilient sound isolation clip as described below:

**a. Furring Channels** – Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 4. Side joint furring channels shall be attached to studs with RESIMOUNT Sound Isolation Clips - Type A237R located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.

**b. Steel Framing Members\*** – Resilient sound isolation clip used to attach furring channels (Item 6D*a*) to studs. Clips spaced 24 in. OC, and secured to studs with No. 10 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction

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BOXUV-U465 - Fire Resistance Ratings - ANSUL 263

BOXUV-U465 - Fire Resistance Ratings - ANSUL 263

**1G. Framing Members\* – Floor and Ceiling Runners** – Not shown - In lieu of Items 1 through 1F – For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced 24 in. OC max.

**STUCCO BUILDING SYSTEMS** – CROSTUD Track

**1H. Floor and Ceiling Runners** – (Not shown) – Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs. For use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.

**NARINO/WARE, DIV OF WARE INDUSTRIES INC** – Viper20™ Track VT10.

**1I. Framing Members\* - Floor and Ceiling Runners** – Not shown - In lieu of Item 1 – For use with Item 2I, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

**TELLING INDUSTRIES L L C** – Viper20™ Track

**2. Steel Studs** – Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.

**2A. Framing Members\* – Steel Studs** – As an alternate to Item 2 - Channel shaped studs, min 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

**ALLSTEEL & GYPSUM PRODUCTS INC** – Type SUPREME Framing System

**CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV** – Type SUPREME Framing System

**QUAIL RUN BUILDING MATERIALS INC** – Type SUPREME Framing System

**2B. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1B, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**RAM SALES L L C** – Ram ProSTUD

**2C. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1C, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2D. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1D, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2E. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1E, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2F. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1F, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2G. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1G, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2H. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1H, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2I. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1I, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2J. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1J, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2K. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1K, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2L. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1L, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2M. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1M, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2N. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1N, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2O. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1O, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2P. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1P, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2Q. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1Q, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2R. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1R, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2S. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1S, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2T. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1T, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2U. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1U, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2V. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1V, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2W. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1W, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2X. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1X, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2Y. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1Y, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**2Z. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 2 – For use with Item 1Z, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**3A. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 3 – For use with Item 1A, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**3B. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 3 – For use with Item 1B, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**3C. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 3 – For use with Item 1C, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.

**3D. Framing Members\* – Steel Studs** – Not shown - In lieu of Item 3 – For use with Item 1D, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.







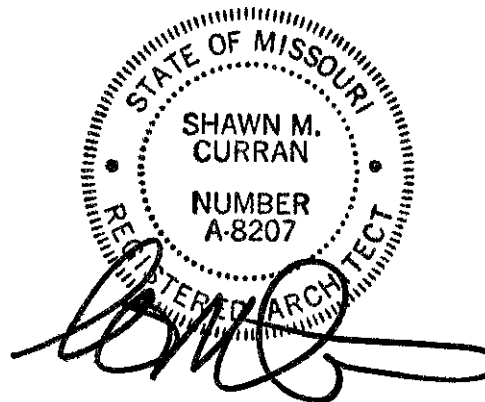
CURRAN

ARCHITECTURE

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CERTIFICATION



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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086

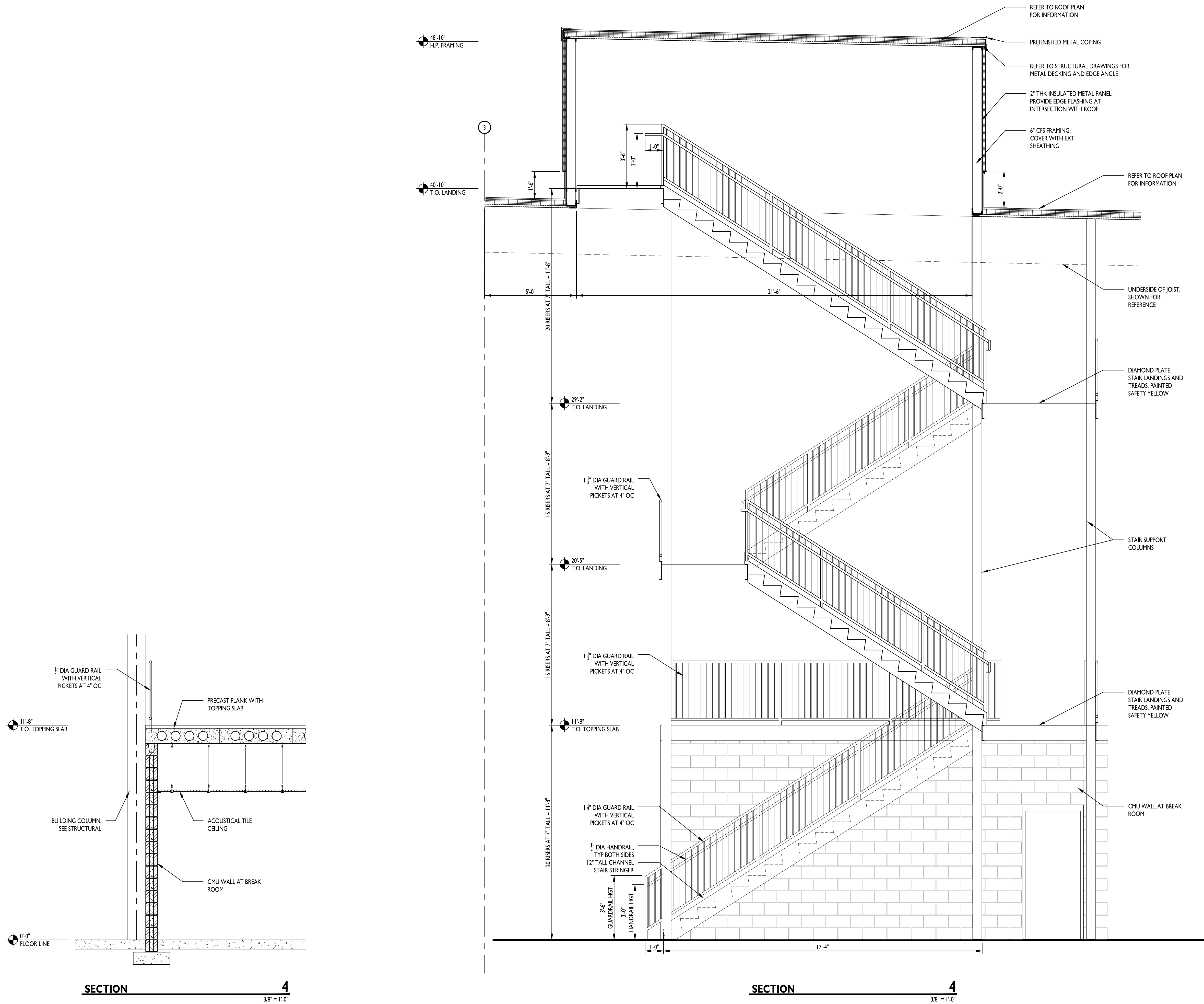
ISSUE DATES

PERMIT SET 02.18.22

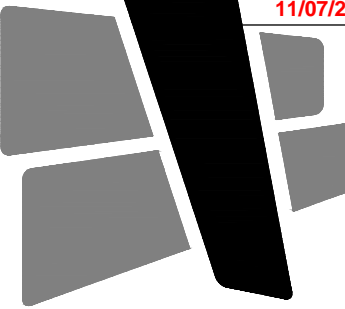
210300

SECTIONS AND DETAILS

A505



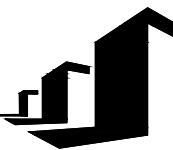




# CURRAN

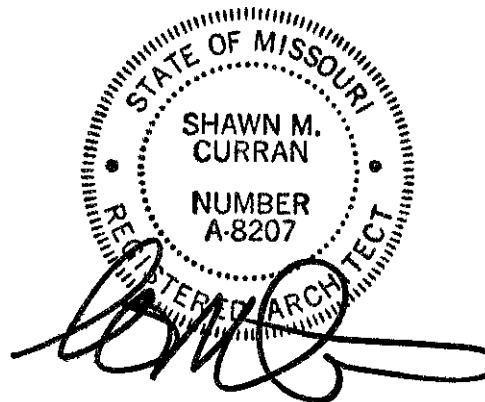
## ARCHITECTURE

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PROPERTIES

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### PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086

### ISSUE DATES

PERMIT SET	02.18.22
REVISIONS	06.14.22


210300

INTERIOR  
DOOR SCHEDULE

# A602

## GENERAL DOOR AND GLAZING NOTES

- ALL PRE-FINISHED WOOD DOORS SHALL BE SOLID CORE WITH WOOD VENEER, MARSHFIELD OR EQUIVALENT. PROVIDE FINISH SAMPLE AND DOOR CONSTRUCTION DIAGRAM FOR APPROVAL AND HARDWARE BLOCKING COORDINATION. VENEER TO BE WHITE BIRCH OR MAPLE, FREE OF DARK GRAINS UNLESS OTHERWISE NOTED.
- WOOD DOORS SHALL ONLY BE INSTALLED IN CONDITIONED SPACE.
- ALL HARDWARE TO BE MINIMUM 6 PIN BEST COMPATIBLE SYSTEM. COORDINATE KEYING WITH OWNER.
- TEMPERED AND ANNEALED GLASS TO BE CLEANED PER MANUFACTURER REQUIREMENTS. NYLON CLOTH METHODS PREFERRED. DO NOT USE RAZOR BLADES ON GLASS.
- GLASS AROUND DOORS AND IN DOORS SHALL BE TEMPERED UNLESS OTHERWISE NOTED IN ELEVATIONS.
- ANY RATED DOORS TO HAVE LABEL INSTALLED IN JAMB.
- ALL EXITS DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009.
- INSTALL OWNER PROVIDED ADA COMPLIANT RESTROOM SIGNAGE. VERIFY WITH ARCHITECT.

## GLAZING TYPES

- SECTION OF GLAZING REQUIRED TO BE 1" INSULATED GREY TINTED GLASS.
- SECTION OF GLAZING REQUIRED TO BE 1" INSULATED TEMPERED GLASS.
- SECTION OF GLAZING REQUIRED TO BE 1/4" GLASS.
- SECTION OF GLAZING REQUIRED TO BE 1/4" TEMPERED GLASS.
- SECTION OF GLAZING REQUIRED TO BE 1" INSULATED TEMPERED GREY TINTED SPANDREL GLASS.

EXTERIOR GLAZING MUST MEET THE FOLLOWING SPECIFICATIONS FOR ENERGY CODE COMPLIANCE:

LOW "E" COATING  
"U" VALUE - MINIMUM OF 0.28  
"SHGC" VALUE - MAXIMUM OF 0.47

## DOOR HARDWARE

### HARDWARE SET 1

- CONTINUOUS HINGES
  - PANIC DEVICES
  - PERIMETER SEAL
  - THRESHOLD
  - SWEEPS
  - HD CLOSERS
  - PULLS
- FINISH: MATCH STOREFRONT

### HARDWARE SET 2

- BALL BEARING HINGES
  - PANIC DEVICE W/ LEVER
  - PERIMETER SEAL
  - THRESHOLD W/ DRAINAGE SUBSILL
  - SWEEP
  - HD CLOSER
  - DRIP TRIM
- FINISH: US26D

### HARDWARE SET 3

- BALL BEARING HINGES
  - STOREROOM LOCKSET
  - PERIMETER SEAL
  - THRESHOLD W/ DRAINAGE SUBSILL
  - SWEEP
  - HD CLOSER
  - DRIP TRIM
- FINISH: US26D

### HARDWARE SET 4

- HINGES
  - OFFICE LOCKSET
  - MUTES
  - DOOR STOP
- FINISH: US26D

### HARDWARE SET 5

- HINGES
  - PASSAGE SET
  - MUTES
  - DOOR STOP
- FINISH: US26D

### HARDWARE SET 6

- HINGES
  - PRIVACY LOCKSET
  - MUTES
  - CLOSER
  - DOOR STOP
- FINISH: US26D

### HARDWARE SET 7

- HINGES
  - PUSH PULLS
  - MUTES
  - MAG LOCK (BY TENANT)
  - DOOR STOPS
- FINISH: US26D

### HARDWARE SET 8

- HINGES
  - PASSAGE SET
  - MUTES
  - CLOSER
  - DOOR STOP
- FINISH: US26D

### HARDWARE SET 9

- HINGES
  - STOREROOM LOCKSET
  - MUTES
  - CLOSER
  - ELECTRIC STRIKE (BY TENANT)
  - DOOR STOP
- FINISH: US26D

### HARDWARE SET 10

- HINGES
  - PUSH PULL
  - MUTES
  - CLOSER
  - DOOR STOP
- FINISH: US26D

### HARDWARE SET 11

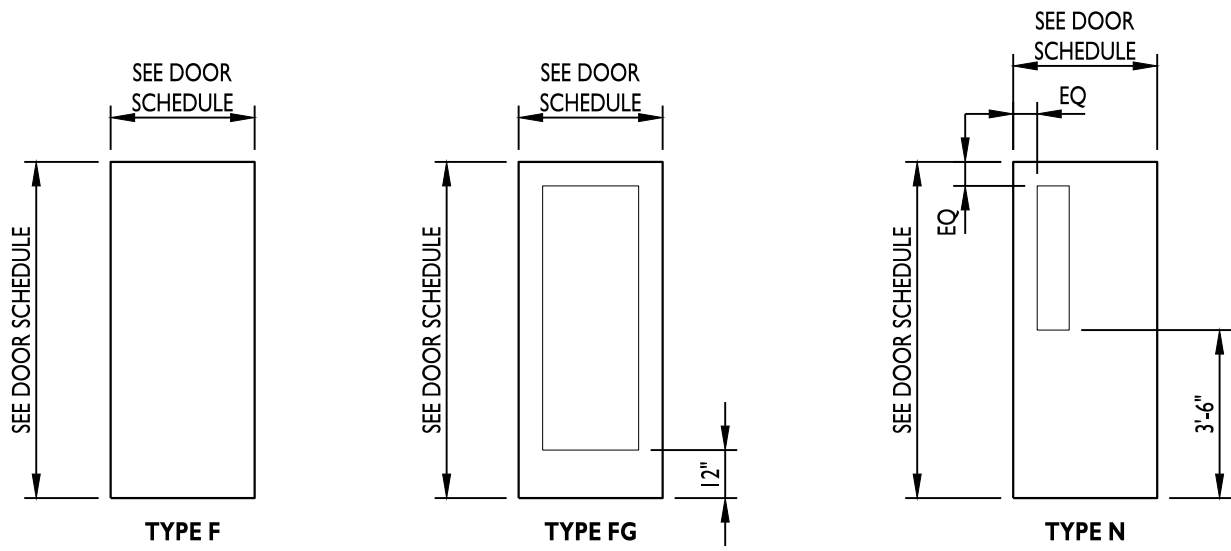
- HINGES
  - OFFICE LOCKSET
  - MUTES
  - PAIR FLUSH BOLTS
  - DOOR STOP
- FINISH: US26D

### HARDWARE SET 12

- HINGES
  - EXIT DEVICE
  - MUTES
  - CLOSER
  - ELECTRIC STRIKE (BY TENANT)
  - DOOR STOP
- FINISH: US26D

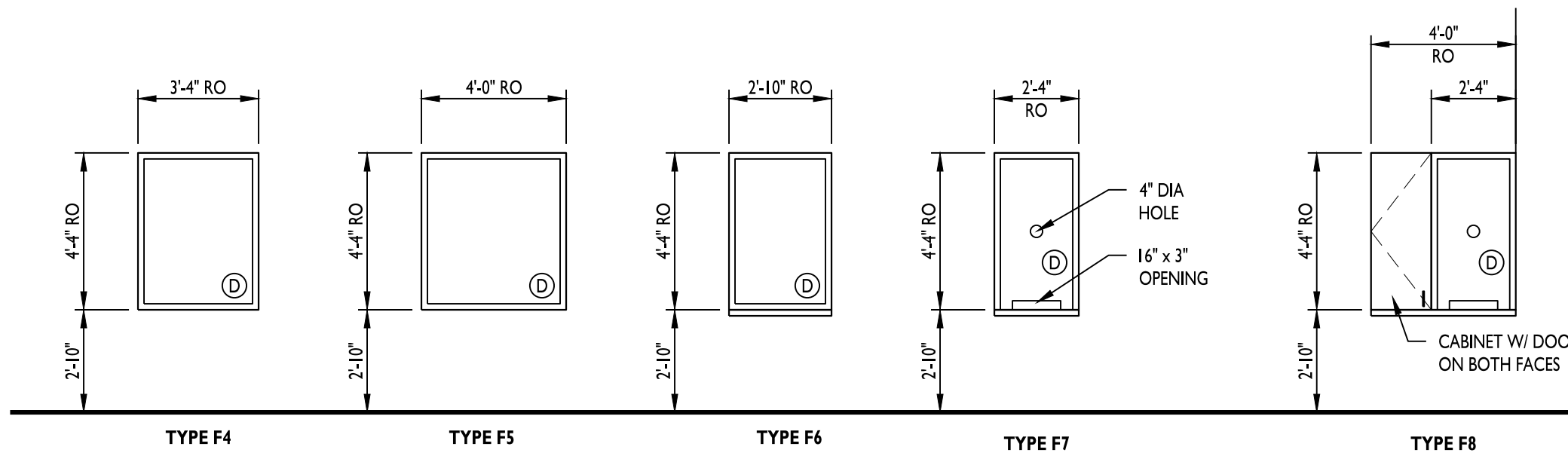
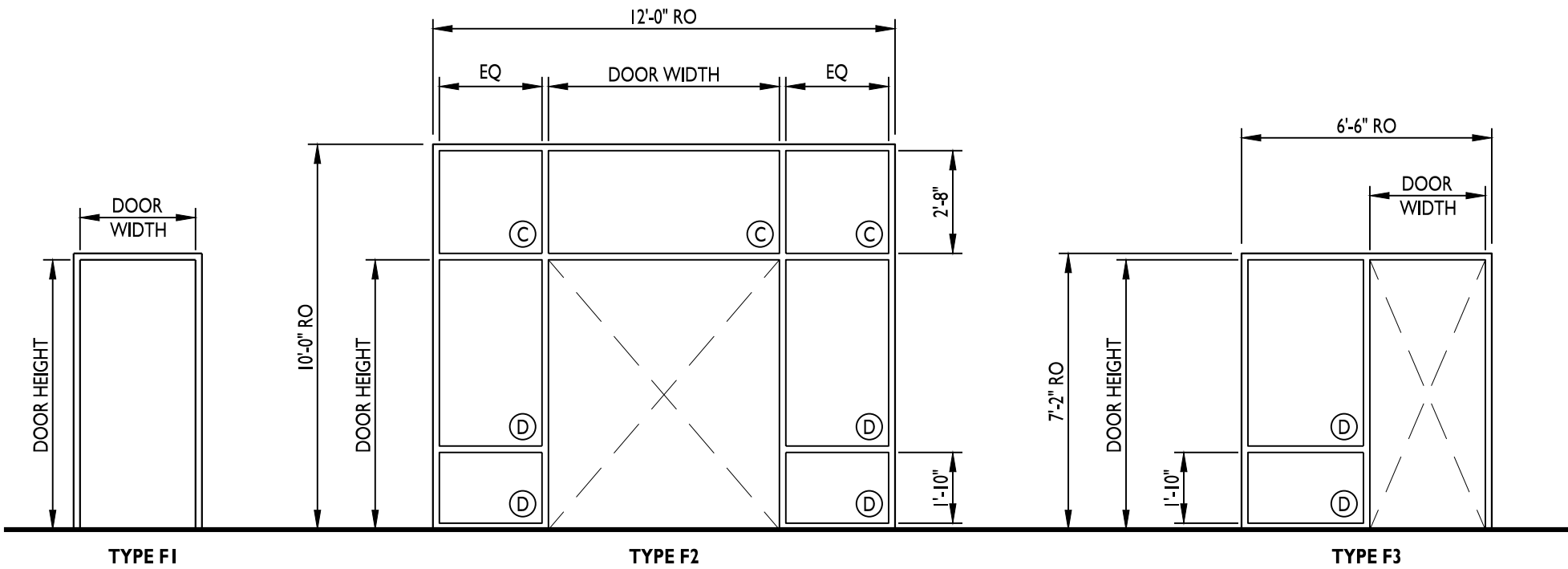
## DOOR SCHEDULE

MARK	DOOR	SIZE	MATERIAL	GLAZING	FINISH	RATING	FRAME	MATERIAL	FINISH	RATING	HARDWARE	REMARKS
101	FG	(2) 3-0 x 7-0	SCWD	D	PRE-FIN	-	F2	KD	PAINT	-	7	
102A	F	3-0 x 7-0	SCWD	--	PRE-FIN	--	F1	KD	PAINT	-	4	
102B	-	-	-	-	-	-	F4	KD	PAINT	-	-	
103	F	3-0 x 7-0	SCWD	--	PRE-FIN	--	F3	KD	PAINT	-	4	
104	F	3-0 x 7-0	SCWD	--	PRE-FIN	--	F3	KD	PAINT	-	4	
105	F	3-0 x 7-0	SCWD	--	PRE-FIN	--	F3 (OH)	KD	PAINT	-	4	
107	F	3-0 x 7-0	SCWD	--	PRE-FIN	--	F3	KD	PAINT	-	5	
108	N	3-0 x 7-0	SCWD	D	PRE-FIN	--	F1	KD	PAINT	-	8	
110	F	3-0 x 7-0	SCWD	-	PRE-FIN	-	F1	KD	PAINT	-	6	
111	F	3-0 x 7-0	SCWD	-	PRE-FIN	-	F1	KD	PAINT	-	9	
111A	F	3-0 x 7-0	SCWD	-	PRE-FIN	-	F1	KD	PAINT	-	4	
112A	F	3-0 x 7-0	SCWD	-	PRE-FIN	-	F1	KD	PAINT	-	8	
112B	N	3-0 x 7-0	HM	D	PAINT	-	F1	KD	PAINT	-	9	
112C	-	-	-	-	-	-	F8	KD	PAINT	-	-	
112D	-	-	-	-	-	-	F7	KD	PAINT	-	-	
112E	-	-	-	-	-	-	F7	KD	PAINT	-	-	
112F	-	-	-	-	-	-	F7	KD	PAINT	-	-	
112G	-	-	-	-	-	-	F7	KD	PAINT	-	-	
112H	-	-	-	-	-	-	F7	KD	PAINT	-	-	
113	N	3-0 x 7-0	HM	D	PAINT	-	F1	KD	PAINT	-	9	
114	F	3-0 x 7-0	SCWD	-	PRE-FIN	-	F1	KD	PAINT	-	4	
115A	N	3-0 x 7-0	SCWD	D	PRE-FIN	--	F1	KD	PAINT	-	8	
115B	N	3-0 x 7-0	SCWD	D	PRE-FIN	--	F1	KD	PAINT	-	8	
116A	N	3-0 x 7-0	SCWD	D	PRE-FIN	-	F1 W/ 4" HEAD	HM	PAINT	-	9	
116B	N	3-0 x 7-0	HM	D	PAINT	-	F1 W/ 4" HEAD	HM	PAINT	-	10	
116C	N	3-0 x 7-0	HM	D	PAINT	-	F1 W/ 4" HEAD	HM	PAINT	-	10	
118	F	3-0 x 7-0	HM	-	PAINT	-	F1	KD	PAINT	-	8	
119	-	-	-	-	-	-	F1	KD	PAINT	-	--	
120	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	8	
122	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	10	
125	F	(2)3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	11	
126	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	4	
127A	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	12	
127B	-	-	-	-	-	-	F6	KD	PAINT	-	--	
128	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	6	
129A	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	12	
129B	-	-	-	-	-	-	F6	KD	PAINT	-	--	
130	F	3-0 x 7-0	HM	--	PAINT	-	F1	KD	PAINT	-	6	
200	F	3-0 x 7-0	INSUL STL	--	PAINT	--	F1	HM	PAINT	--	3	
201	F	3-0 x 7-0	INSUL STL	--	PAINT	--	F1	HM	PAINT	--	3	
300	F	3-0 x 7-0	INSUL STL	--	PAINT	--	F1	HM	PAINT	--	3	



### DOOR TYPES

NOT TO SCALE



### FRAME TYPES

NOT TO SCALE





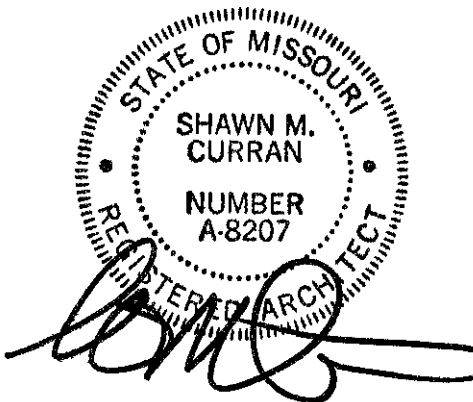
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## PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT 1

NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086

## ISSUE DATES

PERMIT SET 02.18.22

210300

## FINISH SCHEDULE

# A603

## MATERIALS SCHEDULE

MARK	MATERIAL	MANUFACTURER	COLOR	PATTERN / TEXTURE	NUMBER	REMARKS
S-1	SEALED CONCRETE	ASHFORD	CLEAR	CURE-N-SEAL	--	
CPT-1	CARPET TILE	MOHAWK	TBD	UNCHARTED SOLVE II	BT416	
CPT-2	CARPET TILE	MOHAWK	TBD	STEP IN STYLE II	QL312	
T-1	WALL TILE	DALTILE	TBD	COLOR WHELL CLASSIC LINE 3X6 RUNNING BOND	TBD	PROVIDE SILLUTER STRIP AT TOP EDGE, AND SCHLUTER SANITARY COVE AT FLOOR/WALL INTERSECTION
T-2	FLOOR TILW	DALTILE	TBD	IRONCRAFT 12X24	TBD	
B-1	BASE	JOHNSONITE TARKETT	TBD	4" COVE	TBD	
P-1	PAINT	SHERWIN WILLIAMS	TBD	EGGSHELL	TBD	
P-2	PAINT	SHERWIN WILLIAMS	TBD	EGGSHELL	TBD	
P-3	PAINT	SHERWIN WILLIAMS	TBD	EGGSHELL	TBD	
P-4	PAINT	SHERWIN WILLIAMS	MATCH BASE COLOR	SEMI GLOSS	TBD	INTERIOR DOOR FRAMES AND HOLLOW METAL DOORS
FRP-1	FIBERGLASS REINFORCED PLASTIC	TBD	TBD	SMOOTH FINISH	TBD	
PL-1	PLASTIC LAMINATE	TBD	TBD	MATTE FINISH	TBD	
PL-2	PLASTIC LAMINATE	TBD	TBD	MATTE FINISH	TBD	
SS-1	SOLID SURFACE	TBD	TBD	TBD	TBD	GRADE C PRICE
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	WHITE	CORTEGA 2nd LOOK	2767	

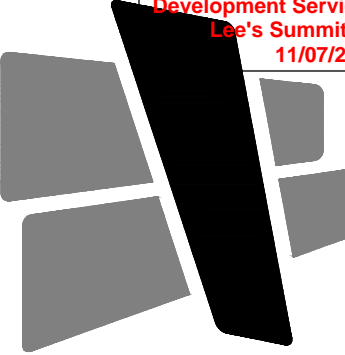
## ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOORING	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CABINETS / COUNTERTOPS	CEILING MAT / HEIGHT	REMARKS
101	LOBBY	CPT-2	B-1	P-1	P-1	P-1	P-1	--	ACT-19-8	
102	OFFICE	CPT-1	B-1	P-2	P-1	P-1	P-1	--	ACT-19-8	
103	OFFICE	CPT-1	B-1	P-2	P-1	P-1	P-1	--	ACT-19-8	
104	OFFICE	CPT-1	B-1	P-2	P-1	P-1	P-1	--	ACT-19-8	
105	VISITOR OFFICE	CPT-1	B-1	P-2	P-1	P-1	P-1	--	ACT-19-8	
106	OPEN OFFICE	CPT-1	B-1	P-1	P-1	P-1	P-1	--	ACT-19-8	
107	CONF ROOM	CPT-1	B-1	P-3	P-3	P-3	P-3	--	ACT-19-8	
108	HALL	CPT-1	B-1	P-1	P-1	P-1	P-1	--	ACT-19-8	
109	COPY / PRINT	CPT-1	B-1	P-1	P-1	P-1	P-1	PL-1/PL-2	ACT-19-8	
110	TLT	T-2	--	T-1/P-3	T-1/P-3	T-1/P-3	T-1/P-3	--	ACT-19-8	T-1 TO 5'-0" AFF AND P-3 TO CEILING
111	SERVER	SC-1	B-1	P-1	P-1	P-1	P-1	--	ACT-19-8	
112	SHARED OFFICE	CPT-1	B-1	P-1	P-2	P-1	P-1	--	ACT-19-8	
113	HALL	CPT-2	B-1	P-1	P-2	P-1	P-1	--	ACT-19-8	
114	STOR	CPT-1	B-1	P-1	P-1	P-1	P-1	--	ACT-19-8	
115	TRAINING ROOM	CPT-1	B-1	P-1	P-2	P-1	P-1	--	ACT-19-8	
116	BREAK ROOM	SC-1	--	P-1	P-1	P-1	P-1	PL-1/SS-1	ACT-19-8	
117	LOCKER ROOM	SC-1	B-1	P-2	P-1	P-1	P-1	--	ACT-19-8	
118	MEN	SC-1	B-1*	P-2	T-1/P-1	T-1/P-1	T-1/P-1	--	ACT-19-8	B-1 ON NON TILED WALLS ONLY, T-1 TO 5'-0" AFF AND P-1 TO CEILING
119	HALL	SC-1	B-1	P-1	P-1	P-1	P-1	--	ACT-19-8	
120	WASHER / DRYER	SC-1	B-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	--	ACT-19-8	FRP-1 TO 4'-0" AFF AND P-1 TO CEILING
121	LOCKER ROOM	SC-1	B-1	P-1	P-1	P-2	P-1	--	ACT-19-8	
122	WOMEN	SC-1	B-1*	T-1/P-1	T-1/P-1	P-2	T-1/P-1	--	ACT-19-8	B-1 ON NON TILED WALLS ONLY, T-1 TO 5'-0" AFF AND P-1 TO CEILING
125	MAINT SHOP	SC-1	B-1	P-1	P-1	P-1	P-1	--	ACT-19-8	
126	MAINT OFFICE	SC-1	B-1	P-1	P-1	P-1	P-1	--	ACT-19-8	
127	DRIVER LOUNGE	SC-1	B-1	P-1	P-1	P-1	P-1	PL-1	ACT-19-8	
128	TLT	SC-1	B-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	--	ACT-19-8	FRP-1 TO 4'-0" AFF AND P-1 TO CEILING
129	DRIVER LOUNGE	SC-1	B-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	--	ACT-19-8	
130	TLT	SC-1	B-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	FRP-1/P-1	--	ACT-19-8	FRP-1 TO 4'-0" AFF AND P-1 TO CEILING

## GENERAL FINISH NOTES

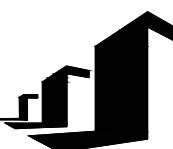
- A. PROCEEDING WITH THE INSTALLATION OF FINISHES WILL BE CONSTRUCTED THAT THE INSTALLER AND/OR FINISHER HAS INSPECTED AND ACCEPTED THE SUBSTRATE FOR RECEIVING THE FINISHES. IF A CHANGE ORDER WILL BE ISSUED TO RECTIFY CONCEALED, UNKNOWN CONDITIONS OR UNSATISFACTORY SUBSTRATE ONCE THE FINISH WORK HAS PROCEEDED.
- B. USE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS AND MATERIALS FOR ALL FINISHES.
- C. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY IF A SPECIFIED FINISH ITEM BECOMES UNAVAILABLE.
- D. CONTRACTOR TO SUBMIT SHOP DRAWINGS, FLOORING TRANSITION GRAPHIC LOCATIONS AND SUBMITTALS OF ALL INTERIOR ITEMS AND FINISH MATERIALS TO ARCHITECT REVIEW PRIOR TO PLACING ANY MATERIAL ORDERS. CONTRACTOR MUST ALLOW FOR SUBMITTAL REVIEW, ORDERING AND DELIVERY WHEN SCHEDULING PRODUCT INSTALLATION.
- E. USE SUBFLOOR REDUCER STRIPS (UNDER FLOORING) TO LEVEL MATERIALS OF UNEQUAL HEIGHTS.
- F. PROVIDE JOHNSONITE SLIM-LINE TRANSITION STRIPS FOR FLOORING MATERIALS OF UNEQUAL THICKNESS MEET. TRANSITION STRIPS AT DOORS TO BE LOCATED UNDER THE CENTERLINE OF THE DOOR IN CLOSED POSITION. COLOR OF TRANSITION STRIPS TO BE SELECTED BY ARCHITECT.
- G. ALL WALL TILE TO BE INSTALLED TO FLOOR WITH NO BASE UNLESS WALL TILE NOT OTHERWISE.
- H. ANY GRILLES, FIRE EXTINGUISHER CABINETS, ETC., TO BE PAINTED TO MATCH WALL COLOR ON WHICH THEY OCCUR.
- I. PROVIDE OWNER WITH A MINIMUM OF ONE FULL BOX OR 2% OF EACH FINISH PRODUCT/MATERIAL SPECIFIED ON THE PROJECT.
- J. ALL WOODWORK/MILLWORK SHALL CONFORM TO THE QUALITY STANDARDS OF ARCHITECTURAL WOODWORK INSTITUTE (AWI) PREMIUM GRADE. FABRICATOR SHALL BE FAMILIAR WITH AWI STANDARDS.
- K. FABRICATE WOODWORK/MILLWORK ITEMS TO ACTUAL FIELD DIMENSIONS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, SAMPLES, AND/OR MATERIAL LITERATURE FOR ALL ITEMS. SHOP DRAWINGS SHALL BE MOST DETAILED. CONTRACTOR TO DETERMINE COMPLIANCE WITH THE QUALITY STANDARDS AND DESIGN INTENT.
- L. PROVIDE ALL NECESSARY FURRING AND GROUNDS FOR WOODWORK AND FINISH ITEMS. COORDINATE LOCATION OF BLOCKING WITH FINAL FIMS FOR ITEMS TO BE SECURED TO SURFACE. ALL FASTENERS SHALL BE CONCEALED.
- M. FINISH ALL SIDES AND BACK OF MILLWORK/CASEWORK.
- N. ALL COUNTERTOPS TO BE 1 1/2" THICK WITH A SQUARE EDGE. UNLESS OTHERWISE NOTED. PROVIDE COUNTER SUPPORTS AS REQUIRED.
- O. PROVIDE GROMMETS IN COUNTERTOPS ABOVE RECEPTACLES. COLOR TO MATCH COUNTER SURFACE. COORDINATE WITH OWNER AND ARCHITECT ON FINAL LOCATION AND SIZE OF GROMMETS BEFORE INSTALLATION.
- P. REFER TO FINISH SCHEDULE, INTERIOR ELEVATIONS AND SPECIFICATIONS FOR ALL MATERIAL INFORMATION AND LOCATIONS.





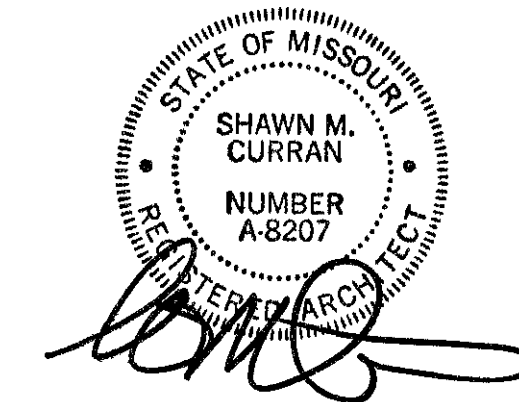
# CURRAN ARCHITECTURE

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## PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086

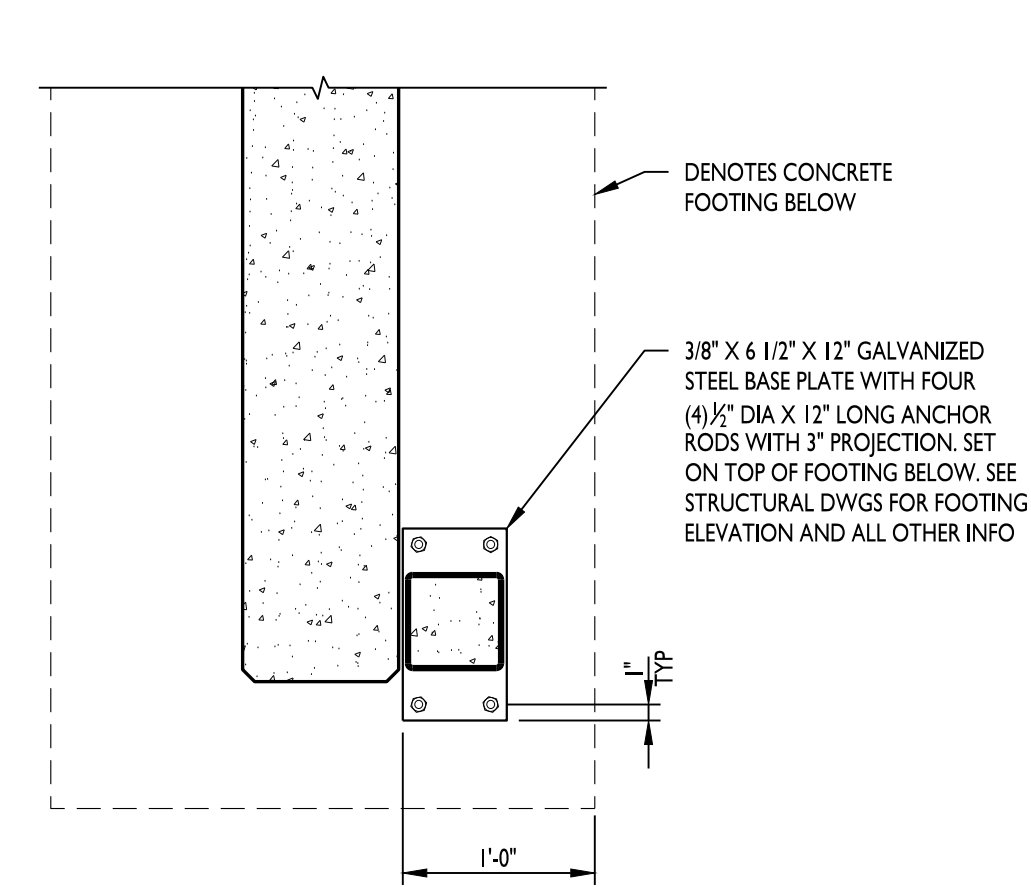
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REVISIONS (ENTIRE SHEET)	06.14.22

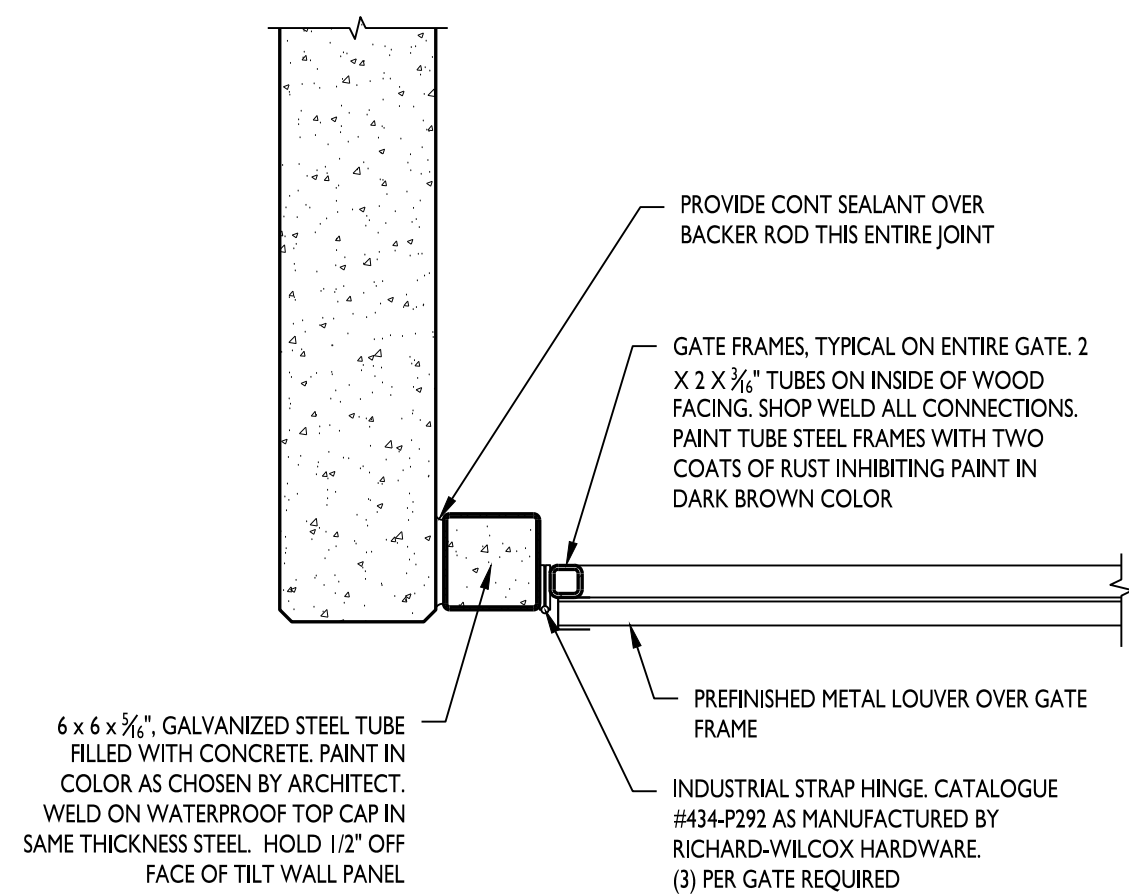
210300

EXTERIOR ENCLOSURE

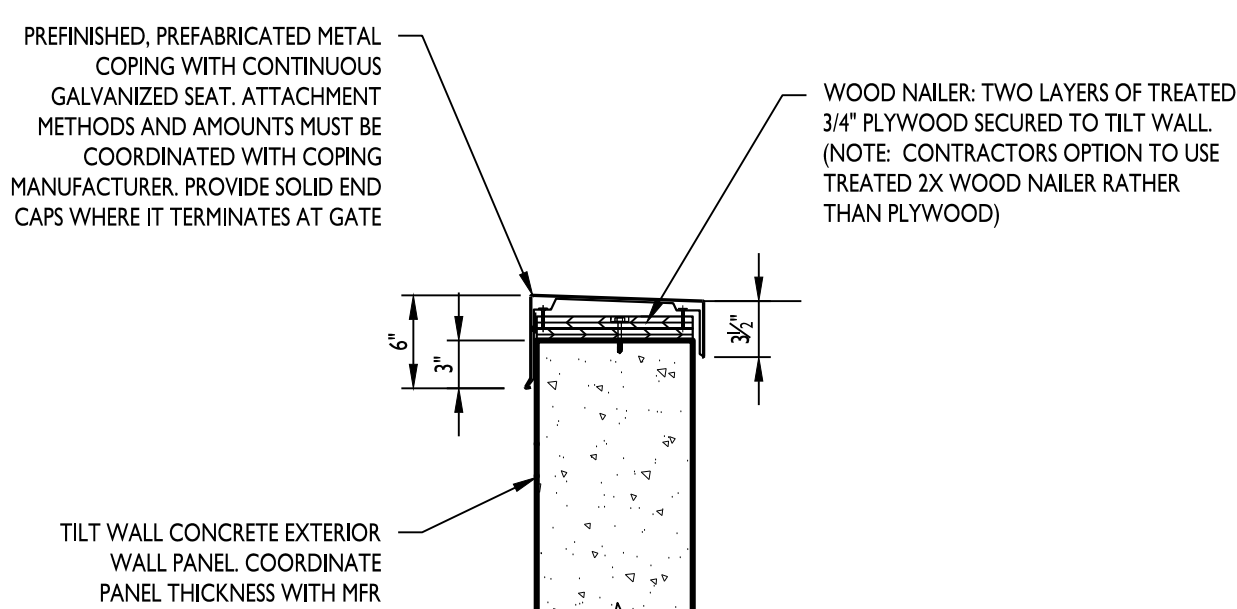
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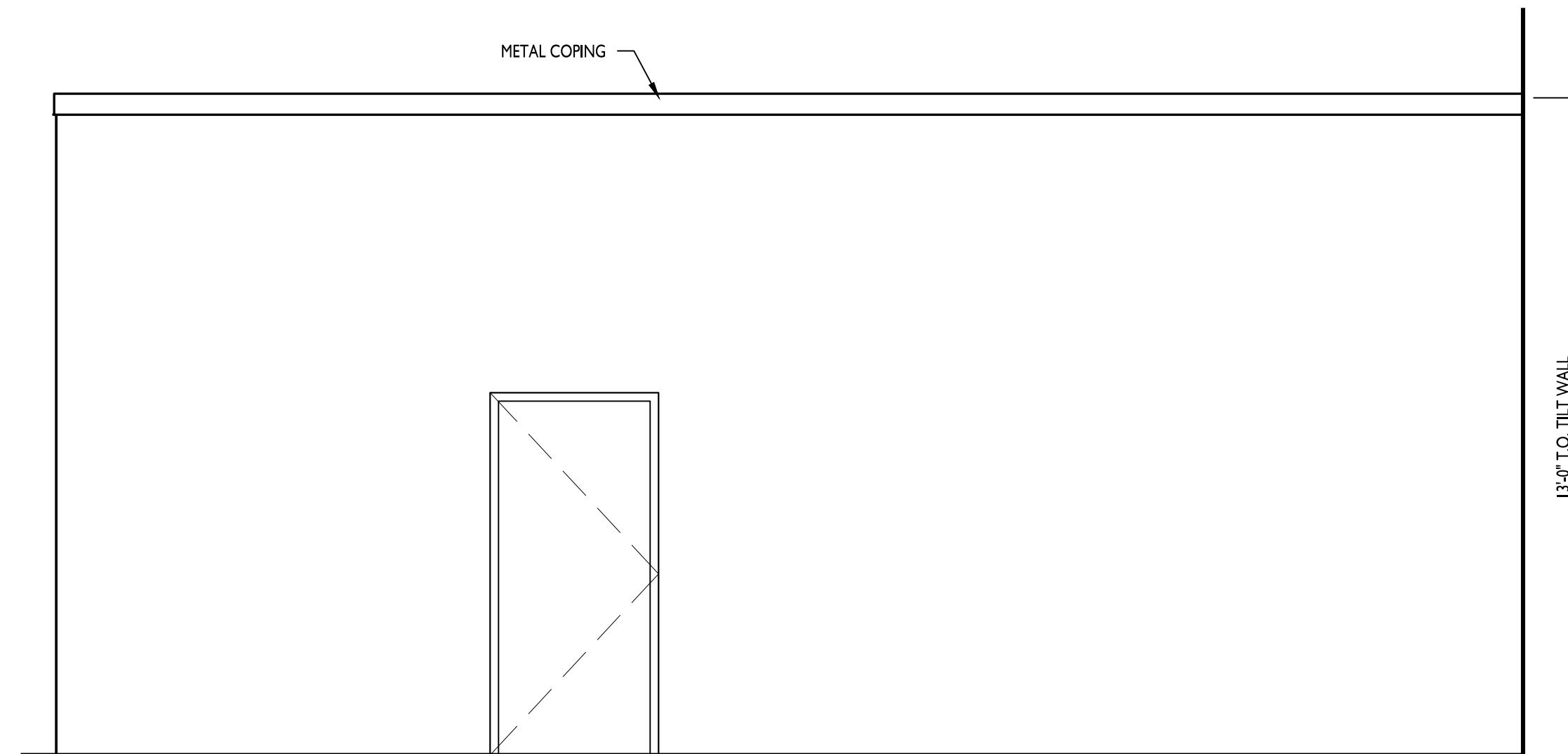
**DETAIL AT FOOTING** **6**  
1" = 1'-0"



**DETAIL AT JAMB** **7**  
1" = 1'-0"

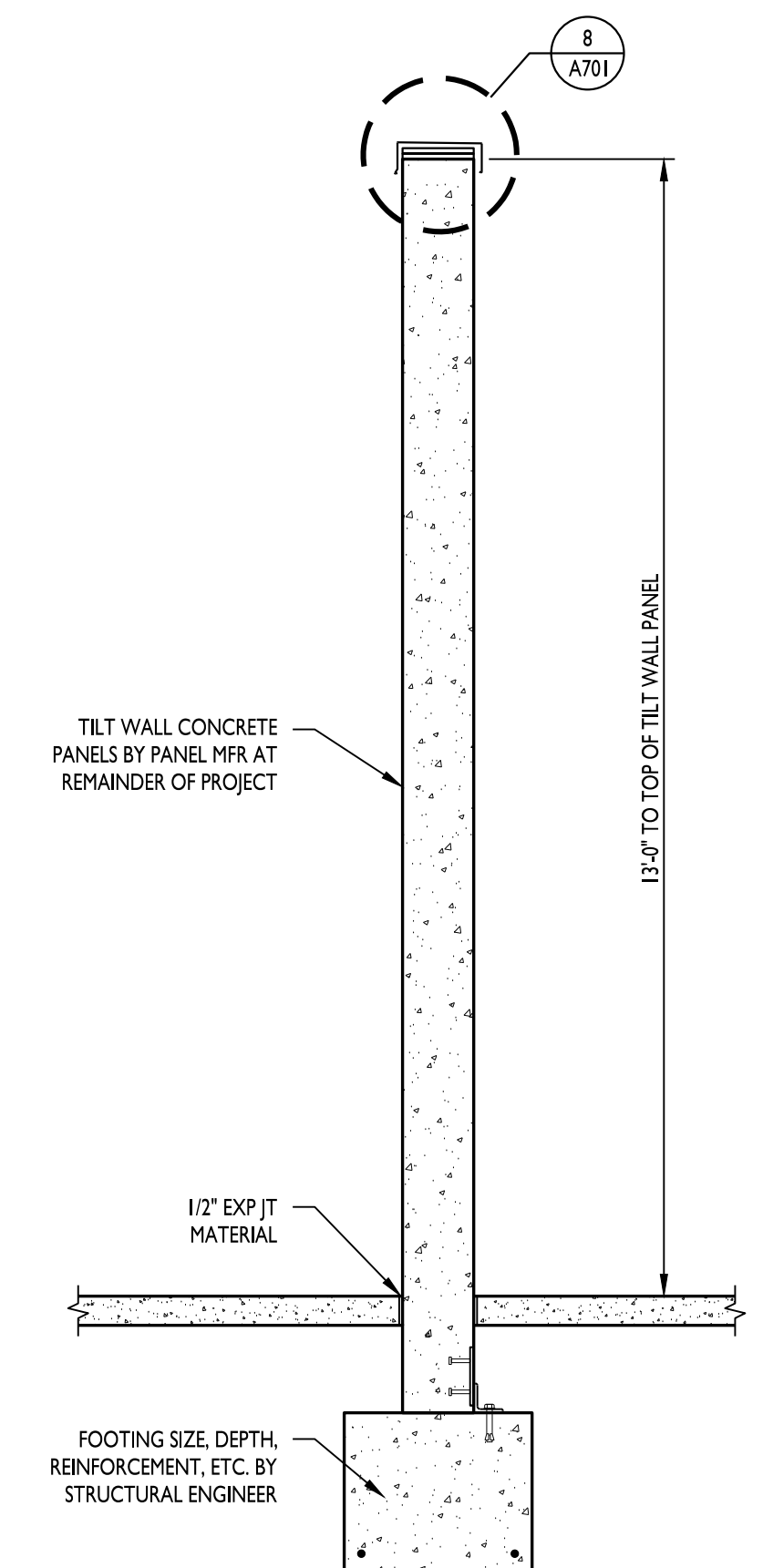


**COPING DETAIL** **8**  
1" = 1'-0"

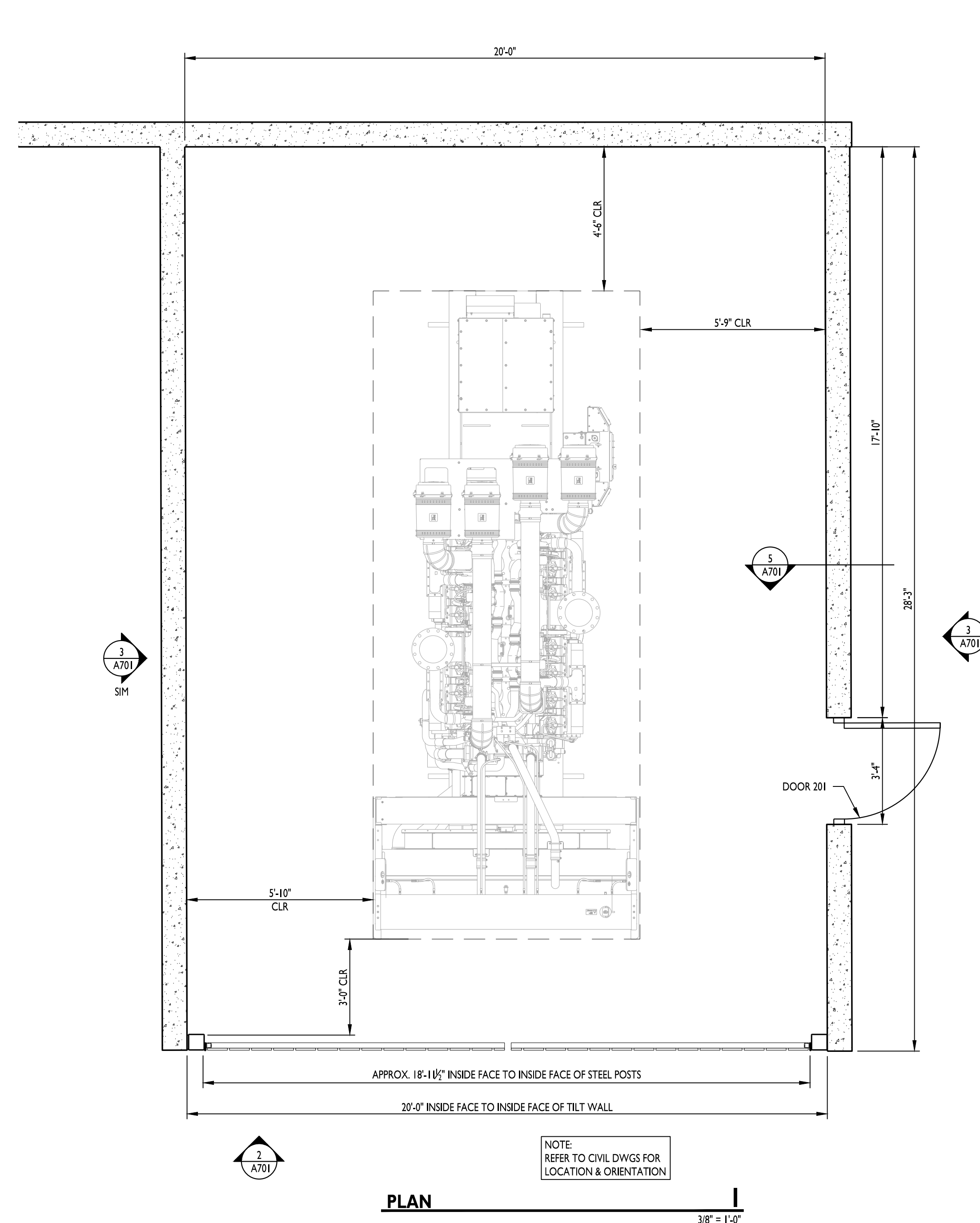


**ELEVATION - SIDE** **3**  
3/8" = 1'-0"

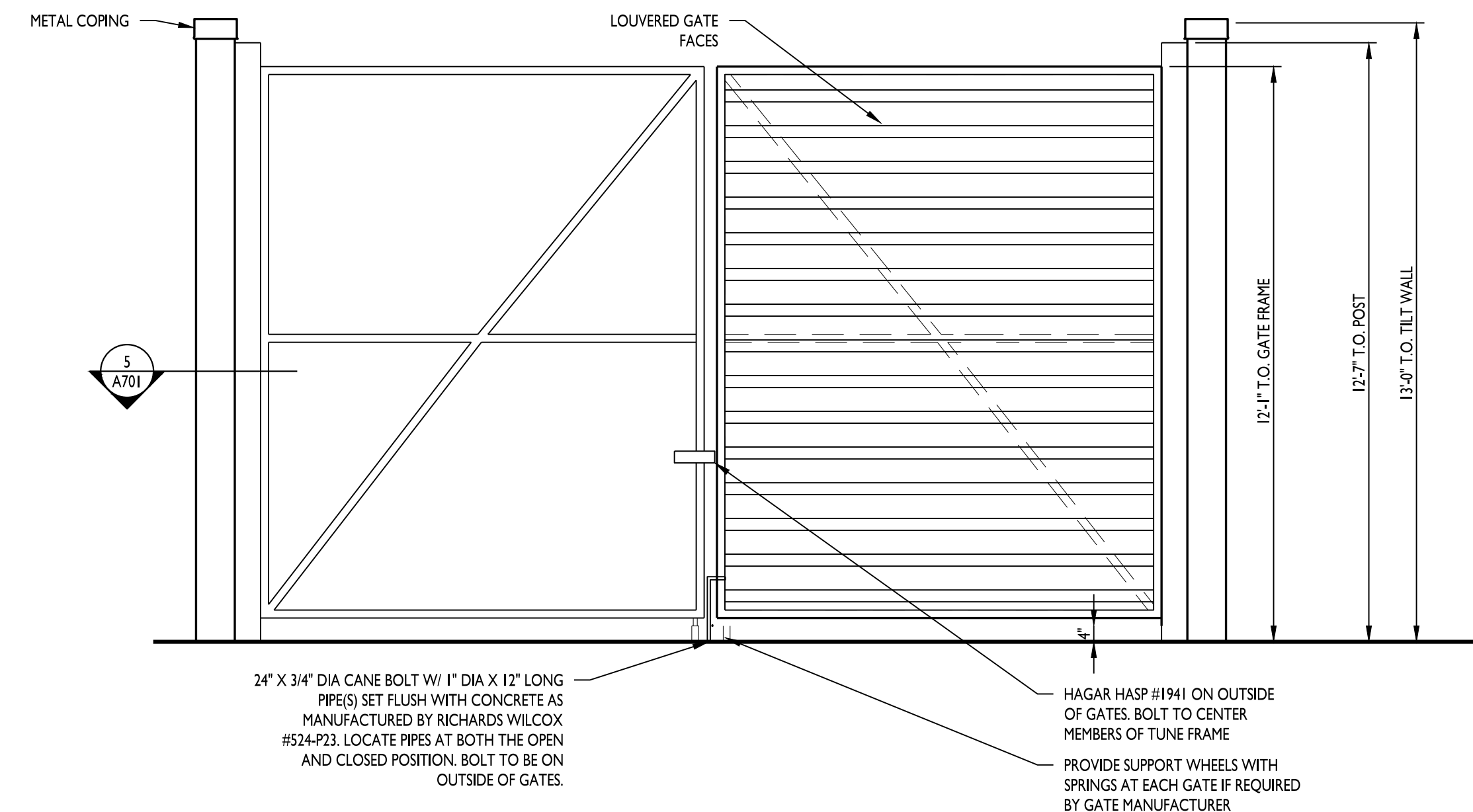
**NOT USED** **4**  
3/8" = 1'-0"



**SECTION** **5**  
1/2" = 1'-0"

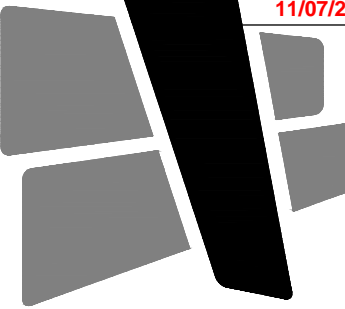


**PLAN** **1**  
3/8" = 1'-0"



**ELEVATION - FRONT** **2**  
3/8" = 1'-0"

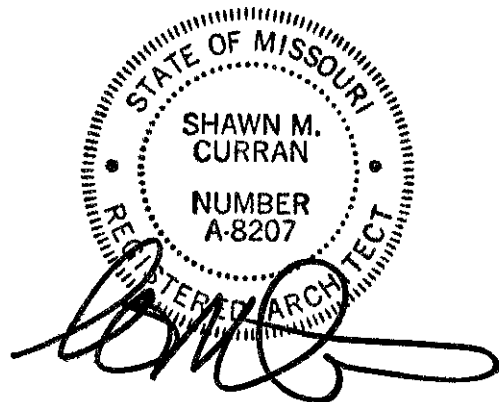




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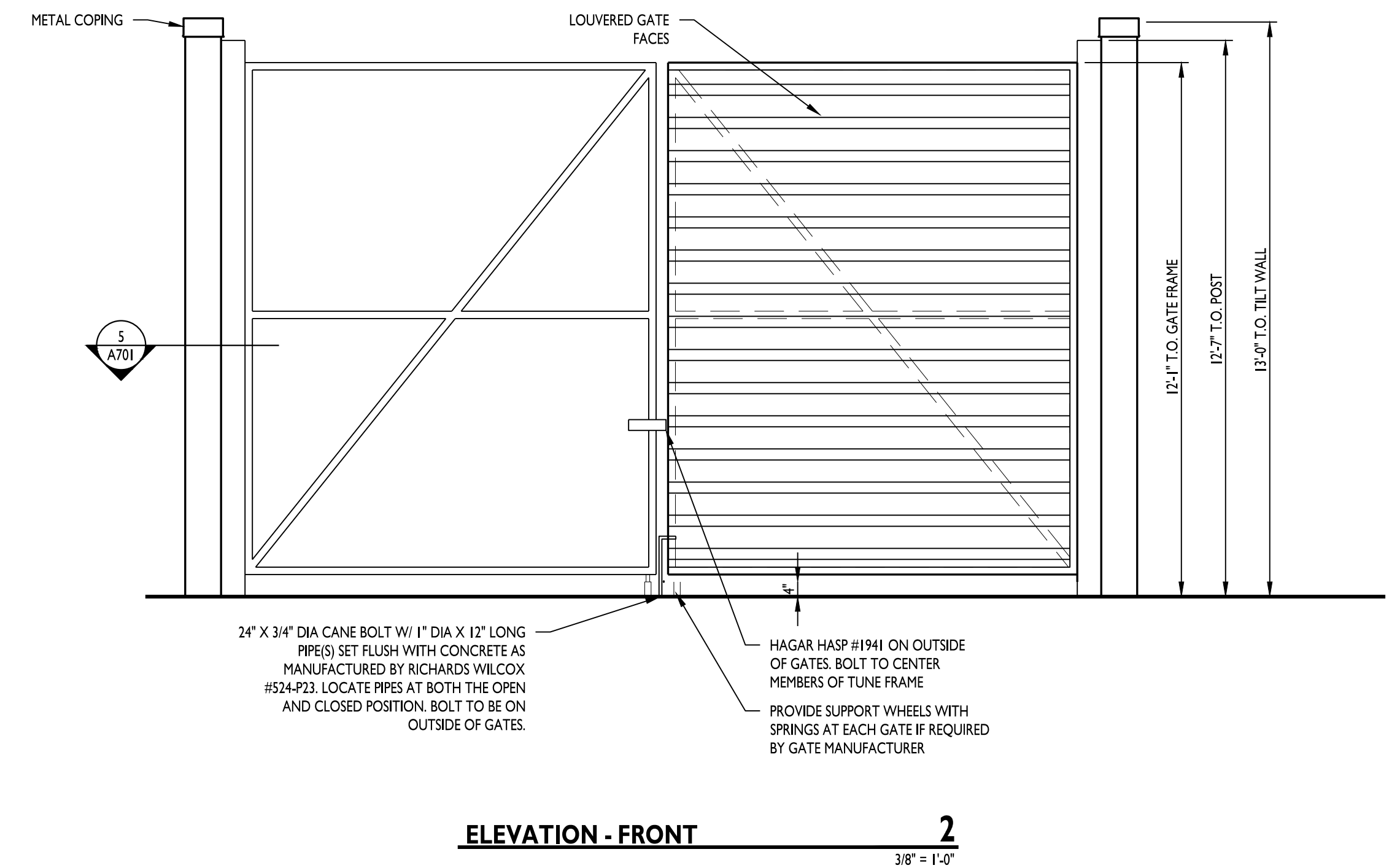
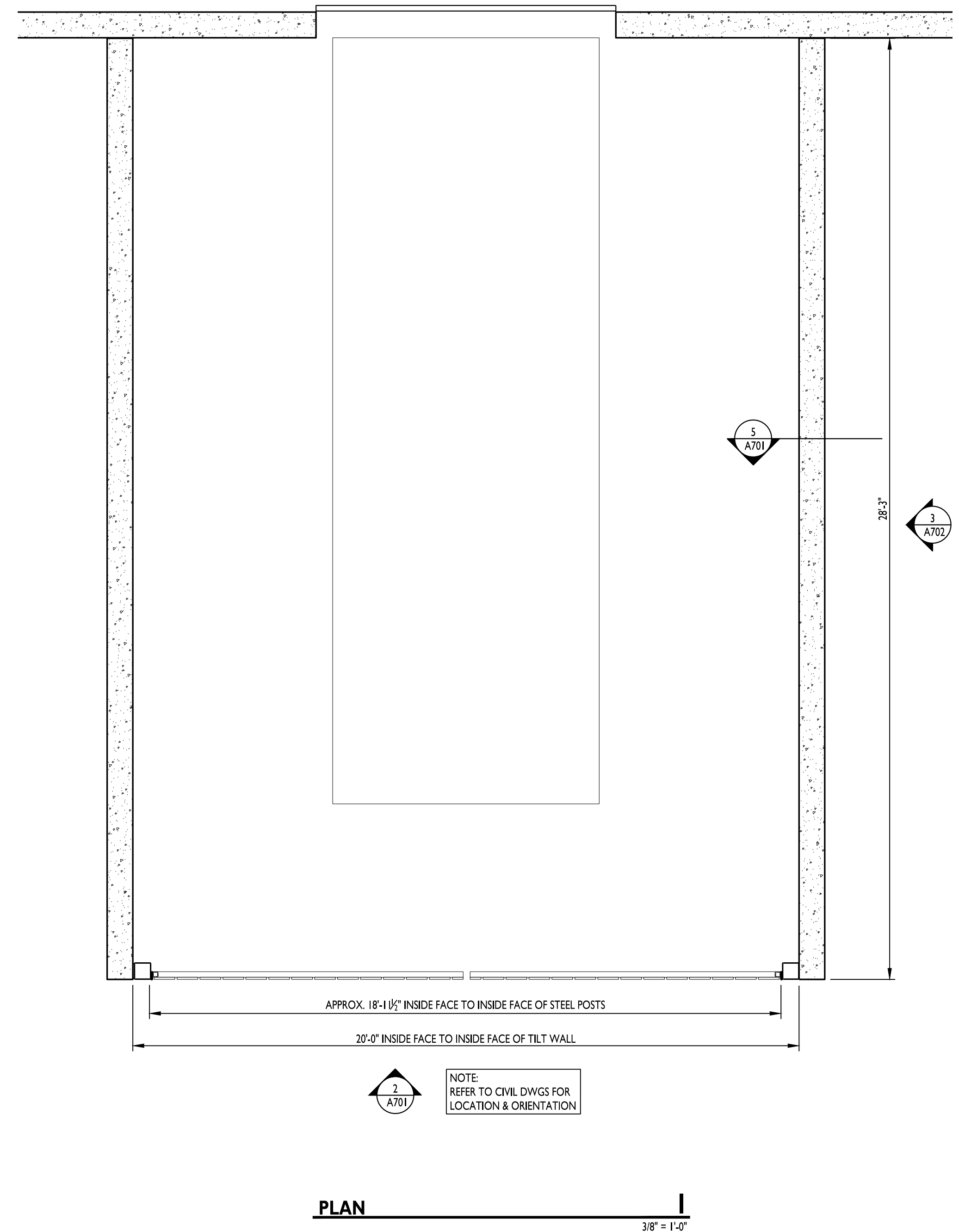
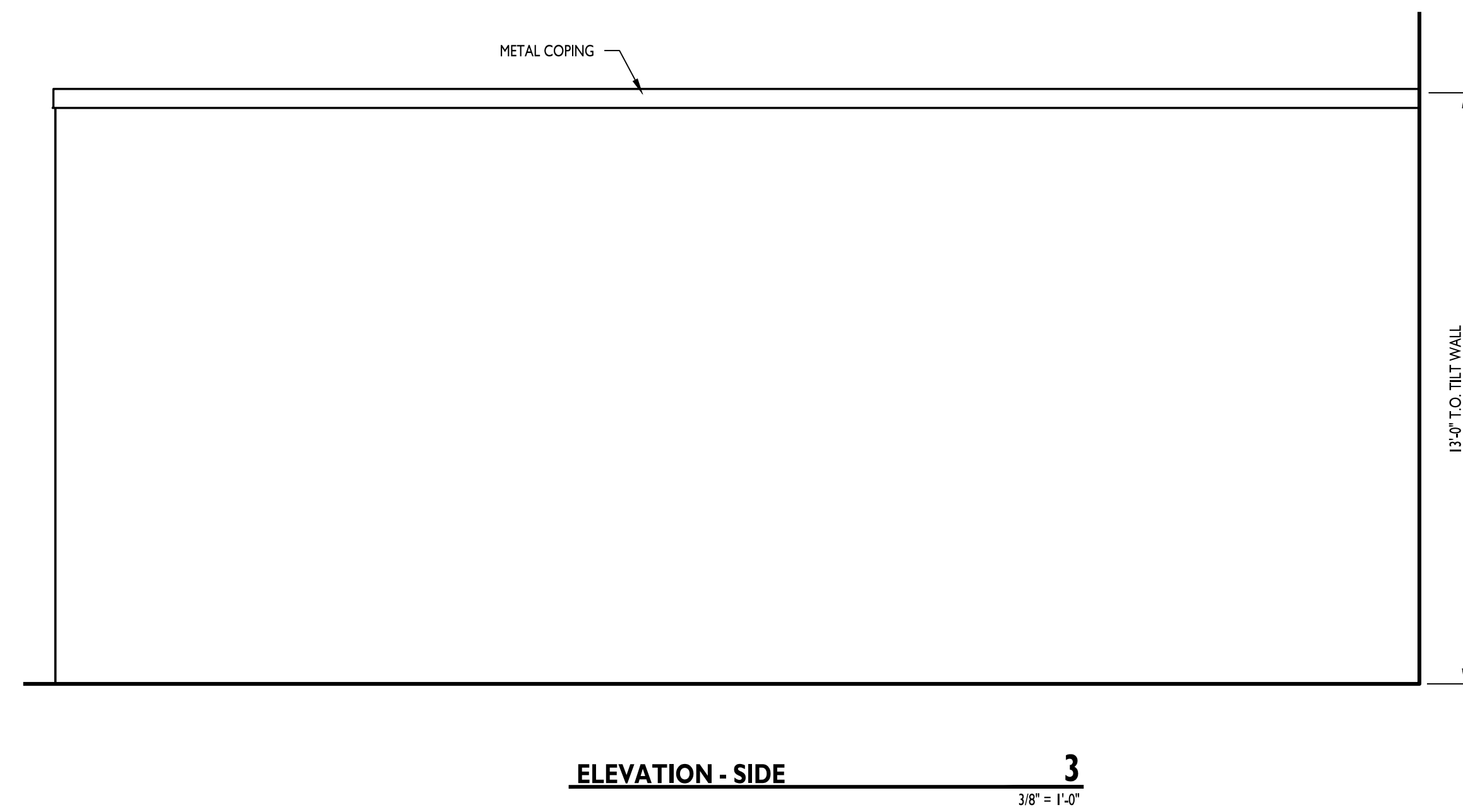
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REVISIONS (ENTIRE SHEET)	06.14.22

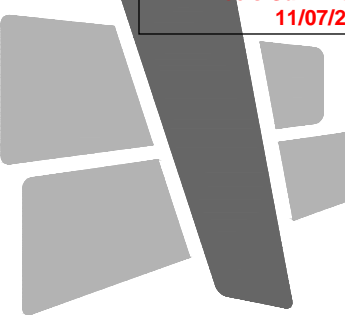
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COMPACTOR ENCLOSURE

**A702**







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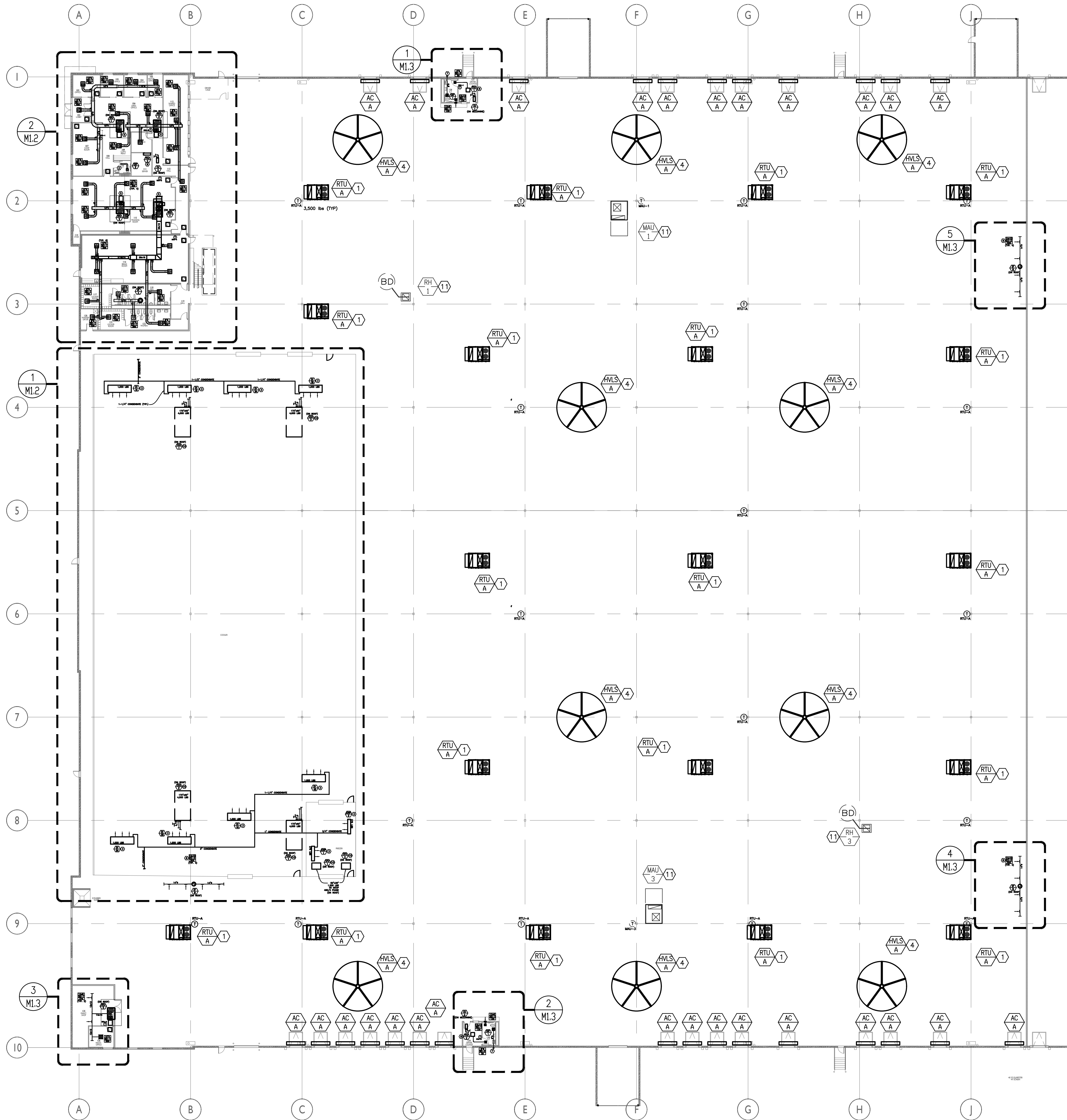


ISSUE DATES

PERMIT SET 04.21.22

210300

M1.1



**MECHANICAL GENERAL NOTES:**

1. ALL MECHANICAL DUCTWORK SHALL BE GALVANIZED STEEL, CONSTRUCTED ACCORDING TO SMACNA STANDARDS.
2. ALL CONCEALED SUPPLY AIR AND RETURN AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 2" THICK, 3/4 LB DENSITY FIBERGLASS DUCT WRAP.  
ALL EXPOSED (WAREHOUSE) SUPPLY AIR DUCTWORK AND RETURN AIR DUCTWORK SHALL BE INTERNALLY INSULATED WITH 1" THICK, 2 LB DENSITY FIBERGLASS DUCT LINER.
3. HVAC CONTRACTOR WILL CHECK EACH SYSTEM FOR PROPER OPERATION.
4. HVAC CONTRACTOR SHALL HAVE AN INDEPENDENT CONTRACTOR TO TEST & BALANCE HVAC SYSTEM TO THE PROPER AIRFLOWS AND STATIC PRESSURES. A COPY OF THE BALANCING REPORT WILL BE SUBMITTED TO THE OWNER UPON COMPLETION. AIR TO (+/-) 10%, WATER TO (+/-) 5%.
5. FLEXIBLE RUN-OUTS TO BE U.L. LISTED AND HAVE A MAXIMUM LENGTH OF 8'-0". DUCT RUNS TO BE SAME SIZE AS DIFFUSER NECK SIZE SHOWN.
6. AIR HANDLING UNITS SUPPLYING 2,000 CFM OR MORE SHALL HAVE A SMOKE DETECTOR INSTALLED IN THE RETURN AIR DUCTWORK. THE SMOKE DETECTOR SHALL BE INTERLOCKED TO SHUT DOWN ALL SUPPLY FANS UPON ALARM.
7. MAINTAIN MINIMUM 10'-0" FROM ALL PLUMBING VENTS AND EXHAUST VENTS TO ALL OUTSIDE AIR INTAKES.
8. DO NOT INSTALL PIPING OR DUCTWORK OVER ELECTRICAL PANELS.
9. ALL COOLER/FREEZER REFRIGERANT PIPING TO BE INSULATED WITH 1" ARMAFLEX. ALL CONDENSATE PIPING TO BE INSULATED WITH 1" ARMAFLEX. CPVC CAN BE USED FOR ALL NON-HEAT TRACED CONDENSATE PIPING. COPPER TO BE USED FOR ALL HEAT-TRACED CONDENSATE. PROVIDE HEAT TRACING ON ALL CONDENSATE PIPING IN FREEZER PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE UV PAINT ON ALL EXTERIOR INSULATION.

**MECHANICAL PLAN NOTES:**

- 1) COORDINATE LOCATION OF RTU WITH FIRE SUPPRESSION PIPING AND STRUCTURE. PROVIDE INTERNALLY LINED RETURN AIR DUCT DROP WITH MESH SCREEN AND PROVIDE SUPPLY AIR DISCHARGE DROP BOX DIFFUSER SIMILAR TO CURBS PLUS DLPD 4015-30. NG TO BE UNDER 35 AT 9,000 CFM. PROVIDE SUPPLY AIR TRANSITION FROM RTU OPENING TO DROPBOX DIFFUSER AS REQUIRED. MOUNT THERMOSTAT ON ADJACENT COLUMN.
- 2) PROVIDE 6" EXHAUST VENT UP THROUGH ROOF. PROVIDE WITH WEATHERCAP.
- 3) ROUTE CONDENSATE AS DIRECTED TO FLOOR DRAIN. PROVIDE HEAT TRACE ON ALL FREEZER CONDENSATE PIPING.
- 4) COORDINATE EXACT LOCATION OF HVL'S FAN. PROVIDE ASSOCIATED FAN CONTROLLER ON ADJACENT COLUMN.
- 5) ROUTE FULL SIZE RETURN AIR DUCT DOWN TO 36" ABOVE FINISH CEILING AND PROVIDE WITH SCREENED MESH OPENING.
- 7) PROVIDE 6" EXHAUST VENT OUT THROUGH WALL. PROVIDE WITH WEATHERCAP.
- 8) INSTALL BATTERY CHARGING EXHAUST DUCTWORK TIGHT TO BOTTOM OF STRUCTURE. PROVIDE EXHAUST GRILLES AS NOTED AT 30" FROM BOTTOM OF DUCT. EXHAUST FAN TO RUN CONTINUOUSLY.
- 9) ROUTE CONDENSATE PIPING TO SINK TAILPIECE OR HUB DRAIN ABOVE CEILING FURNISHED BY PLUMBER
- 10) INSTALL CONDENSING UNIT ON ROOF RAILS.
- 11) EXISTING SHELL BUILDING EQUIPMENT TO REMAIN AS CURRENTLY INSTALLED.

**LEGEND**

- HVL 1** GREENHECK HVL/CIRCULATION FAN 24'-0" DIAMETER MODEL DS-6-24-170HV - 2HP, 460/3 PHASE, 250 LBS AND 6 BLADES. PROVIDE WITH MOUNTING ACCESSORIES AND CENTRAL CONTROL PANEL WITH BACKET INTERFACE FOR ALL (10) FANS. CONDUIT AND CONTROL WIRING BY OTHERS. (TYP. 10)
- AC A** AIR CURTAIN - POWERED AIR MODEL ETD-2-108E. UNIT TO BE 108" LONG WITH 10 KW ELECTRIC HEATING. 16 MCA @ 460/3 PHASE, 220 LBS. PROVIDE WITH MAGNETIC DOOR SWITCH, WHITE INTAKE SUPPLY GRILLE, WALL MOUNTED THERMOSTAT AND WASHABLE ALUMINUM FILTER (TYP. 27)
- EW 1** ELECTRIC WALL HEATER - RAYWALL OR EQUAL. 2KW @ 277/1 PHASE. PROVIDE WITH RECESS MOUNTING FRAME, DISCONNECT, INTEGRAL THERMOSTAT.
- SD-1** SUPPLY AIR DIFFUSER - AS SCHEDULED
- RG-1** RETURN AIR GRILLE - AS SCHEDULED
- RG-2** RETURN AIR GRILLE - AS SCHEDULED
- EX-1** EXHAUST AIR GRILLE - AS SCHEDULED
- EX-2** EXHAUST AIR GRILLE - AS SCHEDULED
- SG-1** SUPPLY AIR GRILLE - AS SCHEDULED
- SG-2** SUPPLY AIR GRILLE - AS SCHEDULED
- RETURN AIR GRILLE** - AS SCHEDULED
- T** THERMOSTAT WITH ZONE/UNIT DESIGNATION. MOUNT AT 48" A.F.F.
- VAV 1-3**
- CO2** CARBON DIOXIDE SENSOR - MOUNT IN RETURN OR WALL AS SHOWN

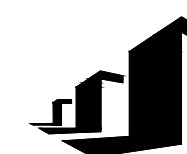
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LSCC BLDG. #1 - TI		
LEE'S SUMMIT, MO		
SCALE: AS NOTED	DATE: 9/6/22	DRAWN BY: M.D.K.
APPROVED BY: JDG	DWG #	M1
PERMIT DWGS.		of 5



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M12



- ① COORDINATE LOCATION OF RTU WITH FIRE SUPPRESSION PIPING AND STRUCTURE. PROVIDE INTERNALLY LINED RETURN AIR DUCT DROP SOUTH MESH SCREENED AND PROVIDE SUPPLY AIR BOX CHARGE DROP BOX DIFFUSER SIMILAR TO CURBS PLUS DLPD 4015-30. NC TO BE UNDER 35 AT 9,000 CFM. PROVIDE SUPPLY AIR TRANSITION FROM RTU OPENING TO DROPBOX DIFFUSER AS REQUIRED. MOUNT THERMOSTAT ON ADJACENT COLUMN.
- ② PROVIDE 6" EXHAUST VENT UP THROUGH ROOF. PROVIDE WITH WEATHERCAP.
- ③ ROUTE CONDENSATE AS DIRECTED TO FLOOR DRAIN. PROVIDE HEAT TRACE ON ALL FREEZER CONDENSATE PIPING.
- ④ COORDINATE EXACT LOCATION OF HVLS FAN. PROVIDE ASSOCIATED FAN CONTROLLER ON ADJACENT COLUMN.
- ⑤ ROUTE FULL SIZE RETURN AIR DUCT DOWN TO 36" ABOVE FINISH CEILING AND PROVIDE WITH SCREENED MESH OPENING.
- ⑦ PROVIDE 6" EXHAUST VENT OUT THROUGH WALL. PROVIDE WITH WEATHERCAP.
- ⑧ INSTALL BATTERY CHARGING EXHAUST DUCTWORK TIGHT TO BOTTOM OF STRUCTURE. PROVIDE EXHAUST GRILLES AS NOTED AT 30" FROM BOTTOM OF DUCT. EXHAUST FAN TO RUN CONTINUOUSLY.
- ⑨ ROUTE CONDENSATE PIPING TO SINK TAILPIECE OR HUB DRAIN ABOVE CEILING FURNISHED BY PLUMBER
- ⑩ INSTALL CONDENSING UNIT ON ROOF RAILS.
- ⑪ EXISTING SHELL BUILDING EQUIPMENT TO REMAIN AS CURRENTLY INSTALLED.

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LSCC BLDG. #1 - TI

LEE'S SUMMIT, MO

SCALE: AS NOTED	DATE: 9/6/22	DRAWN BY: M.D.K.
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APPROVED BY: JDG

PERMIT DWGS.

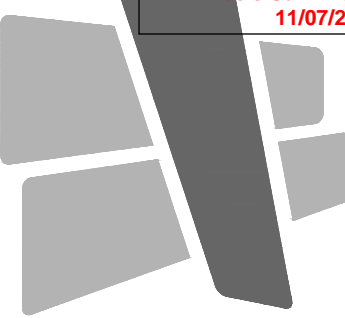
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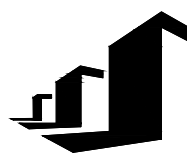






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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086



ISSUE DATES

PERMIT SET 04.21.22

210300

M2.1

SECTION 1500 - MECHANICAL GENERAL PROVISIONS

1.1 DESCRIPTION:

- A. Division 15 shall be governed by all applicable provisions of the Contract Documents. The Mechanical Contractor shall furnish, install and connect all materials, equipment, apparatus, mechanical systems and incidentals required for complete and working installation. The Contractor shall supply all necessary labor, equipment, tools, insurance, taxes services; and The Contractor shall assume full responsibility for all obligations associated with completion of mechanical work as provided by the Contract Documents.

1.2 STANDARDS, REGULATIONS AND CODES:

- A. The work shall comply with the edition of the applicable standards, regulations and codes currently in force of all State and location authorities having jurisdiction. Where quantities, sizes, or other requirements indicated on the drawings or herein specified are in excess of the standard or code requirements, the specifications and/or drawings shall govern. In the absence of other applicable local codes, acceptable to the Architect/Engineer, the Uniform Plumbing and Mechanical Codes shall apply to this work.
- B. The Contractor shall comply with rules and regulations of public utilities and municipal departments affected by connections of services. The Contractor shall pay all fees associated there with.
- C. The Mechanical Contractor shall be licensed to perform mechanical work in the municipality in which the project is located.
- D. All products and types of construction shall meet or exceed the latest edition of applicable standards of manufacturer, testing, performance and installation.

1.3 LOCAL CONDITIONS:

- A. The Contractor shall carefully examine the local conditions and existing installations and shall thoroughly familiarize himself with all existing conditions which may affect his work. The Contractor shall locate all existing utilities and protect them during the execution of the work.
- B. The Contractor shall examine the Architectural, Mechanical and Electrical Drawings and Specifications to familiarize himself with the type of construction, materials, and equipment to be used for all work and how it will affect the installation of his contract.

1.4 CUTTING AND PATCHING:

- A. All necessary cutting, drilling and patching shall be provided by this Contractor. Structural members shall not be disturbed without prior approval of the Architect. All areas disturbed by work performed under this Contract shall be neatly repaired and refinished to the condition of adjoining surfaces in a manner suitable to the Architect.

1.5 OPERATION DURING CONSTRUCTION:

- A. Mechanical equipment shall not be used during construction unless instructed by the General Contractor. The mechanical contractor is responsible for the installation and operation, service and maintenance of all new equipment during construction and prior to acceptance by the Owner of the completed project at additional costs to the GC and/or owner.
- B. Warranty periods shall not commence until final acceptance by the Owner/Substantial Completion.

1.6 SAFETY REGULATIONS:

- A. All Mechanical work shall be performed in compliance with all applicable governing safety regulations, including OSHA regulations. Provide safety lights, guards and signs required.

1.7 HOUSEKEEPING:

- A. The Contractor shall be responsible for keeping stocks of material and equipment stored on the premises in a neat and orderly manner.
- B. The Contractor shall clean and maintain his portion of the work as specified in the General Conditions.
- C. The Contractor shall remove from the premises all waste material present as a result of his work.

1.8 GRAPHIC REPRESENTATION AND JOB CONDITIONS:

- A. The drawings shall serve as working drawings for the general layout of the various items of equipment; are diagrammatic unless specifically dimensioned; and do not necessarily indicate every required item.
- B. The Architectural drawings take precedence over the mechanical drawings in the representation of the general construction work.
- C. Arrange work in a neat, well organized manner. Coordinate work with other trades involved.

1.9 GUARANTEES:

- A. The Contractor shall guarantee all work performed and materials and equipment furnished under this contract, against defects in materials and workmanship for a period of one year from the Date of the Owner's Final Acceptance of the Work, or as noted in each section.

1.10 MOTORS AND CONTROLS:

- A. All motors furnished under this specification shall be recognized manufacturer, of adequate capacity for the loads involved. All motors shall conform to the standards of manufacturer and performance of the National Electrical Manufacturers Association as shown in their latest publications.

1.11 PIPING IN ELECTRICAL ROOMS:

- A. No piping except specifically noted otherwise will be permitted in electrical rooms. In rooms, where piping is indicated over electrical equipment, a suitable galvanized sheetmetal pan or gutter piped to the drainage system shall be provided.

END OF SECTION  
SECTION 15100 - HEATING, VENTILATION AND AIR CONDITIONING

1.1 SCOPE:

- A. The work included under this contract consists of providing all labor, materials, tools, transportation, services, etc., necessary to complete the installation of the heating, ventilating, and air conditioning systems and other items herein listed and as described in these specifications, as illustrated in the accompanying drawings or as directed by the Architect.

1.2 SHEET METAL:

- A. Provide ductwork shown with necessary dampers. Construction of new galvanized prime grade steel sheets per ASHRAE and SMACNA Standards. Provide round or rectangular duct as indicated. Fabricate for the pressure and SMACNA seal class required.
- B. Flexible duct shall be Wiremold WCK or acceptable equal maximum length shall be 8' - 0" or as noted/detailed.
- C. All duct sizes shown are actual size and include liner, where required.

1.3 GRILLES, REGISTERS, INLETS AND OUTLETS:

- A. All supply grilles, registers and diffusers shall be as scheduled on the drawings and shall be ADC rated.

1.4 DUCTWORK ACCESSORIES:

- A. Provide single thickness turning vanes in all supply duct turns.
- B. Provide duct access doors for all internal mounted equipment.
- C. Provide 45° take-off fittings with volume damper for all round takeoffs to diffusers.
- D. Provide dampers where shown and required. Balance and control dampers shall be opposed blade except air mixing dampers shall be parallel blade.

1.5 AIR CONDITIONING UNITS:

- A. Air conditioning units shall be as scheduled. Units shall be standard catalogued products with the appropriate approval or certification by AGA, ARI and UL. Efficiencies shall conform to ASHRAE 90.1 standards.

1.6 FANS:

- A. Fans with accessories shall be as scheduled and shall be AMCA rated.

1.7 VIBRATION ISOLATION:

- A. Duct flexible connection shall be non-combustible, 16 ounce canvas. Piping flexible connection shall be Flexicon 401H or acceptable equal.

1.8 MISCELLANEOUS MECHANICAL EQUIPMENT:

- A. Provide constant, variable volume and/or fan powered boxes and accessories as scheduled. Acceptable manufacturers are E.H. Price or acceptable equal.

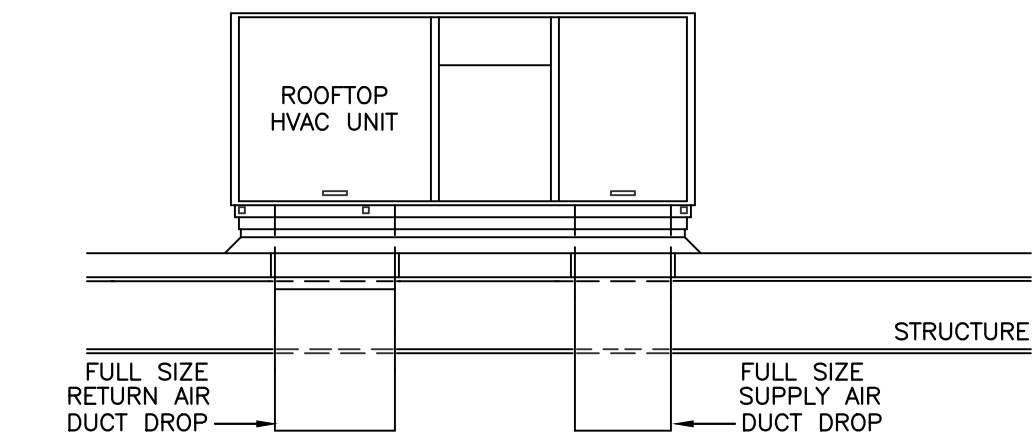
1.9 CLEANING:

- A. Clean system by operating at least three hours prior to final acceptance with temporary filters. Remove all filters and replace with clean.
- B. Use precleaned precharged refrigerant tube. Clean per manufacturers recommendations.

1.10 TESTING AND ADJUSTING:

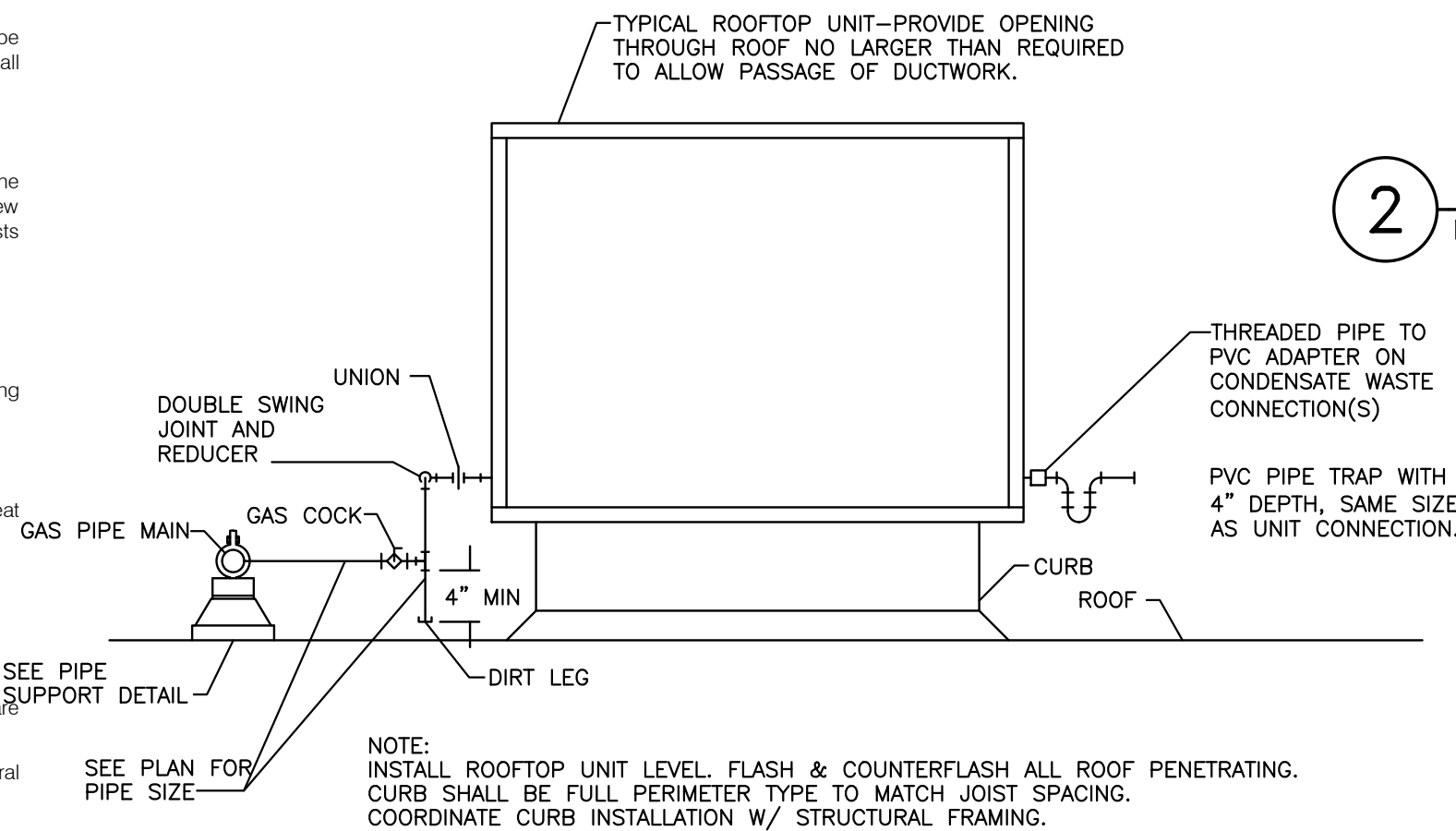
- A. Contractor shall operate and test the air conditioning and ventilation systems and instruct the Owner in its operation. Perform a series of general capacity and operating tests. The tests shall demonstrate the specified capacities of various pieces of equipment.

END OF SECTION

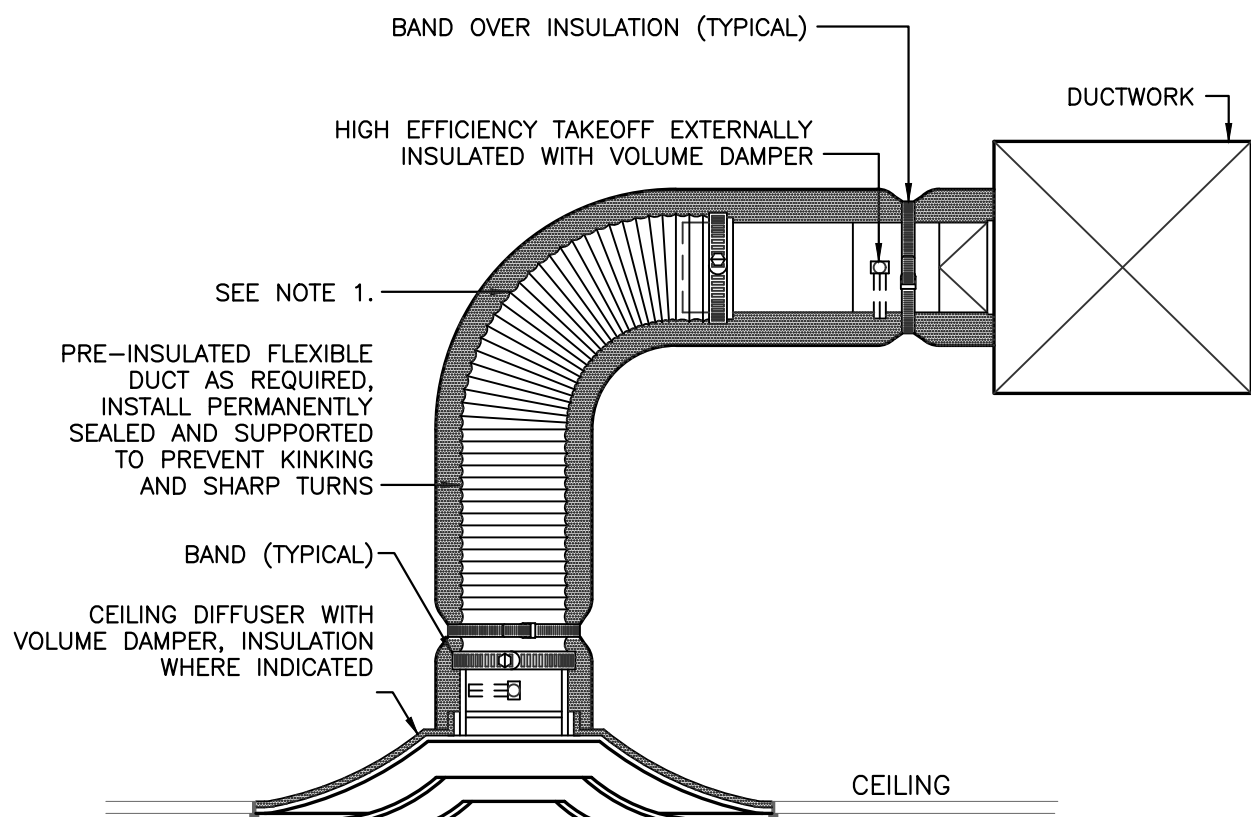


NOTES:  
1. PROVIDE OPENING THROUGH ROOF AND ROOF DECK INSULATION NO LARGER THAN REQUIRED TO ALLOW DUCTS TO PASS THROUGH. REFER TO PLANS FOR DUCT SIZES. FUTURE TI DUCTWORK CONNECTION BY OTHERS.

1 ROOFTOP UNIT DETAIL  
NO SCALE

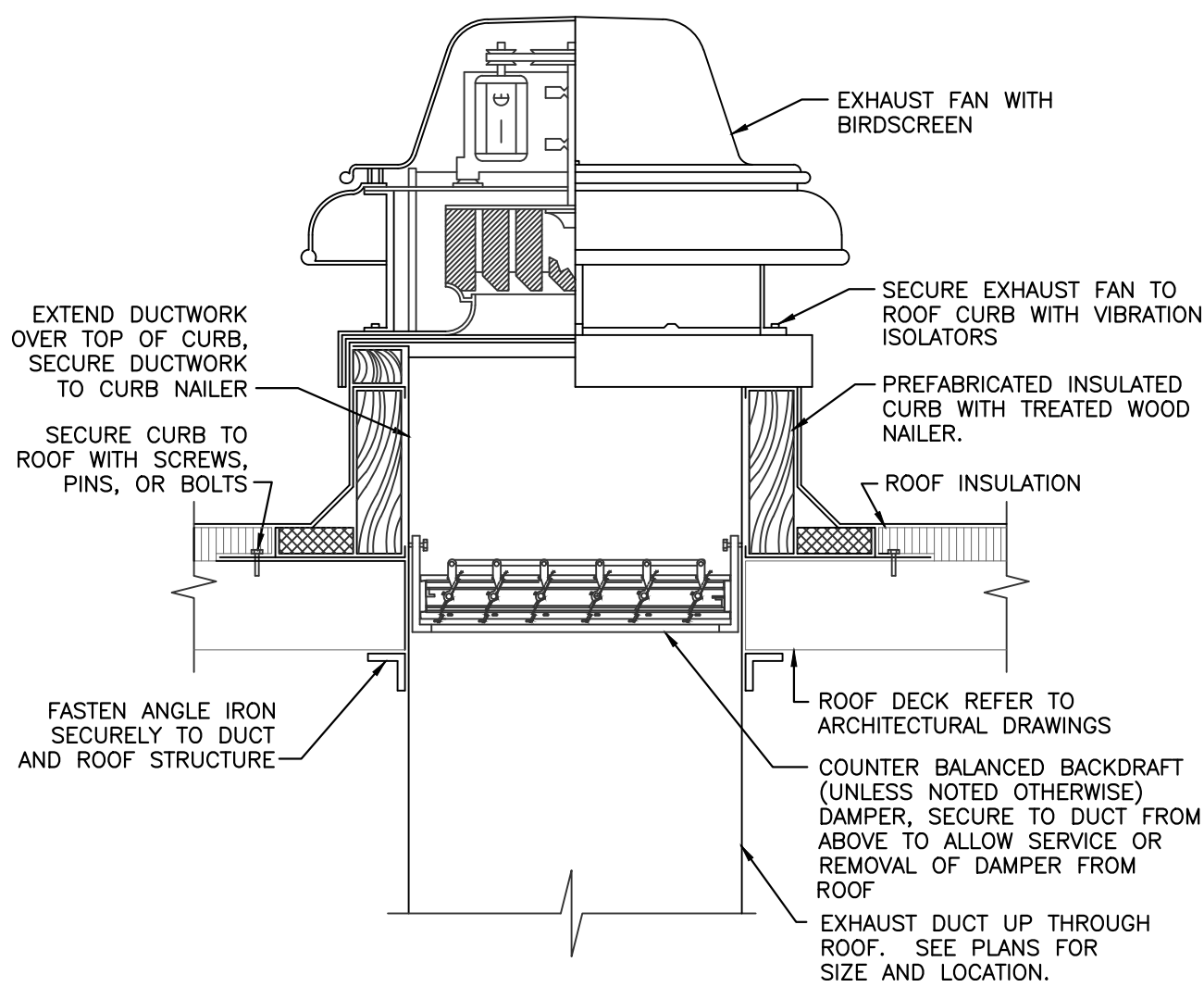


3 ROOFTOP UNIT CONNECTION DETAIL  
NO SCALE



NOTES:  
1. EXTEND HARD METAL DUCT SO THAT MAXIMUM FLEXIBLE DUCT LENGTH DOES NOT EXCEED 8'-0".  
2. DUCTWORK BRANCH RUNOUTS TO BE SAME SIZE AS DIFFUSER NECK UNLESS NOTED OTHERWISE.

4 CEILING DIFFUSER DETAIL  
NO SCALE



2 DOWNBLAST EXHAUST FAN DETAIL  
NO SCALE

ROOFTOP UNIT - CONSTANT VOLUME WITH SINGLE SETPOINT CONTROL (ALL RTU'S)

1. DESCRIPTION:  
EACH SINGLE-ZONE PACKAGED ROOFTOP UNIT (RTU) WILL BE PROVIDED AS IDENTIFIED ON THE EQUIPMENT SCHEDULES, WITH DIRECT EXPANSION COOLING COIL, GAS HEAT, SINGLE SPEED SUPPLY FAN, 2" FILTERS, ECONOMIZER, BAROMETRIC RELIEF, AND FIELD POWERED GFCI CONVENIENCE OUTLET. ECONOMIZERS SHALL BE 0-100% FULLY MODULATING WITH ENTHALPY CONTROL, LOW LEAK DAMPERS.
2. CONTROL:  
EACH UNIT SHALL BE FURNISHED WITH A THERMOSTAT TO BE INSTALLED IN THE SPACE. THE OCCUPANCY MODE SHALL BE DETERMINED THROUGH A USER-ADJUSTABLE PROGRAMMABLE SCHEDULE WITH OR WITHOUT USER OVERRIDE BUTTON ON THE THERMOSTAT.
3. SUPPLY AIR FAN:  
THE FAN MODE SHALL BE SELECTABLE FOR AUTO OR ON. WHEN AUTO IS SELECTED, THE FAN SHALL CYCLE ON AND OFF WITH HEATING OR COOLING. WHEN ON IS SELECTED, THE FAN SHALL OPERATE CONTINUOUS.
4. MECHANICAL COOLING:  
EACH RTU SHALL CYCLE COOLING COMPRESSOR STAGES IN RESPONSE TO COOLING DEMAND FROM THE THERMOSTAT. THE SUPPLY FAN WILL BE ENERGIZED (AUTO MODE) AND STAGE COOLING CAPACITY TO MAINTAIN SPACE TEMPERATURE SETPOINT BASED ON FACTORY CONTROL SEQUENCES. THE SPACE COOLING TEMPERATURE SETPOINT SHALL BE ADJUSTABLE THRU THE PROGRAMMABLE THERMOSTAT AND WILL BE SET-UP TO MAINTAIN TEMPERATURES PER TABLE 2.
5. GAS HEATING:  
THE RTU SHALL CYCLE GAS HEATING STAGES IN RESPONSE TO HEATING DEMAND FROM THE THERMOSTAT. ON A CALL FOR HEATING FROM THE ZONE SENSOR, THE SUPPLY FAN WILL BE ENERGIZED AND THE BURNER SHALL BE ENERGIZED TO MAINTAIN SPACE TEMPERATURE. THE SPACE HEATING TEMPERATURE SETPOINT SHALL BE ADJUSTABLE THRU THE PROGRAMMABLE THERMOSTAT AND WILL BE SET-UP TO MAINTAIN TEMPERATURES PER TABLE 2.
6. DEMAND CONTROL VENTILATION (BREAK ROOM RTU'S ONLY):  
THE SPACE MOUNTED CO2 SENSOR SHALL MONITOR THE SPACE AIR QUALITY. AS THE CO2 RISES ABOVE THE CO2 SETPOINT (700 PPM, ADJ.) THE OUTSIDE AIR DAMPER INCREASES ABOVE MINIMUM SETPOINT TO A MAXIMUM POSITION SET DURING BALANCING. AS CO2 LEVELS DECREASE, THE DAMPER MODULATES CLOSED. ONCE THE CO2 LEVEL IS BELOW THE CO2 SETPOINT, THE OUTSIDE AIR DAMPER SHALL RETURN TO THE MINIMUM POSITION.
7. ECONOMIZER - ENTHALPY:  
THE FACTORY RTU CONTROLLER WILL INDEX THE UNIT INTO ECONOMIZER MODE IF THE OUTDOOR AIR DRY BULB IS BELOW THE SETPOINT. DURING UNOCCUPIED MODE, THE UNIT SHALL CONTROL TO THE UNOCCUPIED MODE SETBACK TEMPERATURE. IF THE UNOCCUPIED SETPOINT IS EXCEEDED, THE RTU SHALL HEAT OR COOL UNTIL THE ZONE TEMPERATURE IS WITHIN THE UNOCCUPIED SETPOINTS, PLUS OR MINUS AN OFFSET OF 5°F (ADJ.).
8. BAROMETRIC RELIEF DAMPER:  
THE BAROMETRIC RELIEF DAMPER CONSISTS OF A GRAVITY DAMPER THAT WILL OPEN TO RELIEVE EXCESS AIR AS BUILDING PRESSURE INCREASES.
9. OUTSIDE AIR DAMPER:  
WHEN UNIT IS NOT IN ECONOMIZER MODE AND THE SUPPLY FAN IS IN OPERATION, THE OUTDOOR AIR DAMPER SHALL MODULATE TO THE MINIMUM PER THE UNIT SCHEDULE DURING THE OCCUPIED MODE. THE OUTDOOR AIR DAMPER SHALL BE CLOSED WHEN THE SUPPLY FAN IS OFF.
10. BALANCING WAREHOUSE RTU WITH 4-WAY DIFFUSER:  
BALANCING CONTRACTOR TO BALANCE WAREHOUSE RTU UTILIZING RPM AND MANUFACTURER'S FAN CURVE. INDIVIDUAL GRILLE AIRFLOW IS NOT REQUIRED. THE BALANCING CONTRACTOR SHALL ASSIST IN SETTING OUTDOOR AIR DAMPER POSITIONS.
11. SMOKE DETECTION CONTROL:  
UPON DETECTION OF SMOKE FROM THE RETURN DUCT SMOKE DETECTOR (BY OTHERS), THE FANS WILL CYCLE OFF AND OUTDOOR AIR DAMPERS SHALL CLOSE. ONCE THE DETECTORS ARE RESET, THE UNIT WILL RETURN TO NORMAL CONTROL. SMOKE DETECTOR INSTALLATION BY OTHERS, AS NECESSARY. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO WIRE THE SMOKE DETECTOR TO THE EMERGENCY SHUT DOWN OF THE RTU CONTROLLER.

IT / DATA / MDF ROOM DUCTLESS COOLING-ONLY SPLIT SYSTEM, WALL-MOUNTED (FCU-3)

1. DESCRIPTION:  
THE SYSTEM SHALL CONSIST OF A SINGLE-ZONE SPLIT SYSTEM WITH INDOOR FAN-COILHANDLING UNIT (FCU) AND COOLING-ONLY OUTDOOR CONDENSING UNIT (CU).
2. CONTROL:  
THE SPACE TEMPERATURE SHALL BE CONTROLLED IN A STAND-ALONE MODE BY MANUFACTURER SUPPLIED THERMOSTAT MOUNTED IN ROOM.
3. COOLING:  
THE AHU SHALL OPERATE CONTINUOUSLY. THE CU SHALL CYCLE CAPACITY AS NEEDED TO MAINTAIN THE SPACE TEMPERATURE OF 74°F (ADJ.).

SHIPPING/RECEIVING (FCU-1/2)

1. DESCRIPTION:  
THE SYSTEM SHALL CONSIST OF A SINGLE-ZONE SPLIT SYSTEM WITH INDOOR FAN-COILHANDLING UNIT (FCU) AND COOLING-ONLY OUTDOOR CONDENSING UNIT (CU).
2. CONTROL:  
THE SPACE TEMPERATURE SHALL BE CONTROLLED IN A STAND-ALONE MODE BY MANUFACTURER SUPPLIED THERMOSTAT MOUNTED IN ROOM.
3. COOLING:  
THE AHU SHALL OPERATE CONTINUOUSLY. THE CU SHALL CYCLE CAPACITY AS NEEDED TO MAINTAIN THE SPACE TEMPERATURE OF 74°F (ADJ.).

EXHAUST FAN (EF-1/2/3)

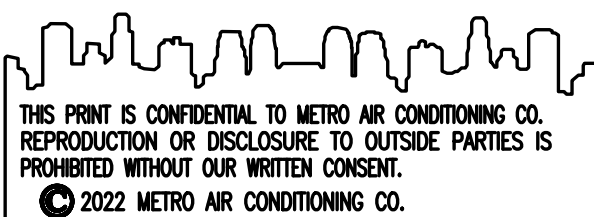
1. CONTROL:  
THE EXHAUST FAN SHALL OPERATE CONTINUOUSLY AS INDICATED ON THE EXHAUST FAN EQUIPMENT SCHEDULE.
2. CONTINUOUS:  
THE EXHAUST FAN SHALL OPERATE CONTINUOUSLY (24/7). THE FAN MAY BE DE-ENERGIZED USING THE DISCONNECT SWITCH.

EXHAUST FAN (CEF-1) (TYP.)

1. CONTROL:  
THE EXHAUST FAN SHALL BE INTERLOCKED WITH THE RESTROOM LIGHT SWITCH, AS INDICATED ON THE EXHAUST FAN EQUIPMENT SCHEDULE.
2. ROOM LIGHT SWITCH:  
THE EXHAUST FAN SHALL BE INTERLOCKED WITH THE ROOM LIGHT CONTROL OR WALL SWITCH AND SHALL BE ENERGIZED ANY TIME THE LIGHTS ARE ON IN THE ROOM. (WIRING BY OTHERS)

AIR CURTAIN (AC-A)

1. DESCRIPTION:  
EACH UNIT SHALL CONSIST OF A HEATED ELECTRIC AIR CURTAIN FOR ENVIRONMENTAL SEPARATION. UNIT SHALL BE PROVIDED WITH FACTORY-INSTALLED 24V TRANSFORMER, MAGNETIC DOOR LIMIT SWITCH, HEAT-OFF-FAN SWITCH, AND THERMOSTAT.
2. DOOR LIMIT CONTROL:  
AIR CURTAIN SHALL ENERGIZE AS DOOR BEGINS TO OPEN AS INDICATED BY THE MAGNETIC DOOR LIMIT SWITCHES. UNIT SHALL DE-ENERGIZE WHEN THE DOOR HAS CLOSED.
3. HEAT-OFF-FAN CONTROL:  
WHEN THE SWITCH IS IN THE OFF POSITION THE AIR CURTAIN IS INOPERABLE. IN THE HEAT POSITION, THE AIR CURTAIN WILL RUN WITH HEAT BASED ON THE LIMIT SWITCH OR THERMOSTAT. IN THE FAN POSITION, THE AIR CURTAIN WILL RUN WITHOUT HEAT BASED ON THE LIMIT SWITCH.
4. HEATING:  
AIR CURTAINS HAVING SINGLE (ONE-STAGE) HEATING ELEMENTS, ARE CONTROLLED BY A SINGLE STAGE THERMOSTAT. WHEN THE AIR CURTAIN CONTROL CIRCUIT CLOSURES, THE AIR CURTAIN FAN WILL RUN AND THROUGH INTERLOCKING, WILL ENABLE THE HEATER CIRCUIT ON A CALL FOR HEAT. THE THERMOSTAT WILL ENERGIZE THE HEATER CONTROL CONTACTOR. THE THERMOSTAT WILL THEN CYCLE THE HEATER AS NEEDED, AS LONG AS THE AIR CURTAIN CONTROL CIRCUIT IS CLOSED (FAN IS RUNNING). WHEN THE AIR CURTAIN CONTROL CIRCUIT OPENS, THE HEATER CIRCUIT IS DISABLED, THE HEATER WILL DE-ENERGIZE AND THE FAN WILL SHUT OFF.



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LEE'S SUMMIT, MO

SCALE: AS NOTED DATE: 9/6/22 DRAWN BY: M.D.K.

APPROVED BY: JDG

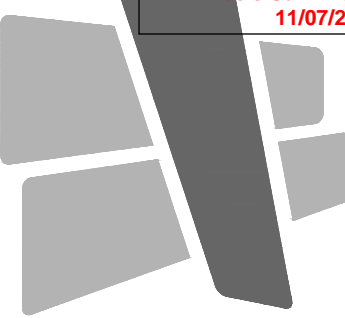
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086



ISSUE DATES

PERMIT SET 04.21.22

210300

M3.1

ROOFTOP UNIT SCHEDULE (NATURAL GAS HEAT)

MARK	MANUFACTURER	MODEL	SERVICE	QUANTITY	NOMINAL TONNAGE	SUPPLY FAN			COOLING COIL			GAS HEATING COIL			ELECTRIC HEATING		ELECTRICAL		WEIGHT (LBS) W/ CURB	MIN. OUTSIDE AIR (CFM)	MAX. OUTSIDE AIR (CFM)	MIN. EER	NOTES	
						CFM	ESP (IN)	MODE	HP	TH (MBH)	SH (MBH)	INPUT (MBH)	OUTPUT (MBH)	STAGES	INPUT (KW)	STAGES	MCA	MOCP						V/PH
RTU-A	TRANE	YSD300G4RHC	WAREHOUSE	19	25	9,000	0.50	CV	7.5	300	234	400	320	2	---	---	56	70	460/3	3,200	800	800	10.0	A - H
RTU-1	TRANE	YSC060	MAIN OFFICE	1	5	1,975	0.75	CV	1.0	58	48	100	81	2	---	---	15	20	460/3	1,000	200	200	12.0	A - H
RTU-2	TRANE	YSC060	MAIN OFFICE	1	5	1,950	0.75	CV	1.0	58	48	100	81	2	---	---	15	20	460/3	1,000	175	175	12.0	A - H
RTU-3	TRANE	YSC060	MAIN OFFICE	1	5	2,000	0.75	CV	1.0	58	48	100	81	2	---	---	15	20	460/3	1,000	300	300	12.0	A - H
RTU-4	TRANE	YSC092F	MAIN OFFICE	1	7.5	2,750	0.75	CV	2.0	90	68	150	120	2	---	---	18	20	460/3	1,500	450	450	11.0	A - H
RTU-5	TRANE	YSC036	MAINTENANCE	1	3	1,000	0.50	CV	0.5	35	26	80	60	2	---	---	10	15	460/3	1,000	70	70	12.0	A - H

NOTES:

- A. STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNIT.  
B. EQUIPMENT SIZED FOR 100 DEGREE F AMBIENT TEMPERATURE.  
C. PROVIDE 2", 30% EFFICIENT PLEATED THROWAWAY AIR FILTERS.  
D. PROVIDE MANUFACTURER'S STANDARD SPRING VIBRATION ISOLATION ROOF CURB WITH MINIMUM HEIGHT OF 14".  
E. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH, FIELD POWERED GFI OUTLET AND HAIL GUARDS.  
F. PROVIDE WITH TRANE AIR/FI CONTROLS TO INTEGRATE INTO BAS.  
G. PROVIDE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF DAMPER.  
H. ELECTRICAL/FIRE ALARM CONTRACTOR TO FURNISH AND INSTALL SMOKE DETECTOR IN RETURN AIR DUCT.  
J. PROVIDE WITH HOT-GAS REHEAT COIL, DEHUMIDIFICATION CONTROLS AND WALL MOUNTED CO2 SENSOR. CO2 SENSOR TO MODULATE OA FROM MINIMUM TO MAXIMUM AIRFLOWS.  
K. PROVIDE WITH VARIABLE FREQUENCY DRIVE FOR SINGLE ZONE VAV OPERATION.  
L. UNIT SHALL BE VVT. PROVIDE WITH BYPASS DAMPER AND REQUIRED CONTROLS FOR PROPER OPERATION.  
M. PROVIDE WITH CO2 SENSOR MOUNTED AS SHOWN ON PLANS (WALL OR DUCT MOUNT) AND MODULATE VENTILATION FROM MINIMUM TO MAXIMUM SCHEDULED VALUES.

OUTSIDE AIR CALCULATIONS

UNIT SERVED	OCCUPANCY CLASSIFICATION	AREA (SQ. FT.)	PEOPLE PER 1,000 SQ. FT.	FIXED SEATING QUANTITY	QUANTITY OF PEOPLE	REQUIRED OUTSIDE AIR PER PERSON	REQUIRED OUTSIDE AIR PER SQ. FT.	TOTAL REQUIRED (CFM)	NOTES
RTU-A	WAREHOUSE	180,000	---	---	---	---	0.08	14,400	A
REQUIRED VENTILATION:								14,400 CFM	B

NOTES:

- A. VALUES TAKEN FROM ASHRAE 62.1-2010 - VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY.  
B. TOTAL VENTILATION FOR WAREHOUSE TO BE DIVIDED AMONG ALL RTU-A. REFER TO EQUIPMENT SCHEDULE FOR ACTUAL AMOUNT.

COOLER/FREEZER EQUIPMENT SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	QUANTITY	TYPE	SUPPLY FAN(S)			PIPING CONNECTIONS			ELECTRICAL			WEIGHT	HEIGHT W/ O RAILS	NOTES
						CFM	HP	QTY.	LIQUID	SUCTION	CONDENSATE	MCA	MOCP	V/PH			
CFU-1	HEATCRAFT/BOHN	BCH0075LDACD	(-) 10 F FREEZER	1	CONDENSING UNIT	---	7.5	---	7/8"	1-5/8"	---	38	40	460/3	1,000	40"	A - D
EVAP-1	HEATCRAFT/LARKIN	BEM0325MS4EMA		1	EVAPORATOR	7,100	1/4	3	1-1/8"	1-5/8"	3/4"	18	---	460/1	300	30"	A - B
CFU-2	HEATCRAFT/BOHN	BCH0075LDACD	(-) 10 F FREEZER	1	CONDENSING UNIT	---	7.5	---	7/8"	1-5/8"	---	38	40	460/3	1,000	40"	A - D
EVAP-2	HEATCRAFT/LARKIN	BEM0325MS4EMA		1	EVAPORATOR	7,100	1/4	3	1-1/8"	1-5/8"	3/4"	18	---	460/1	300	30"	A - B
CCU-1	HEATCRAFT/BOHN	BCD0400MDACD	(+) 38 F COOLER	1	CONDENSING UNIT	---	40	---	1-5/8" x (2)	2-1/8" x (2)	---	142	150	460/3	4,500	56"	A - D
EV-1A	HEATCRAFT/BOHN	BHA1400SA		1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7	---	460/3	800	51"	A - B, E
EV-1B	HEATCRAFT/BOHN	BHA1400SA		1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7	---	460/3	800	51"	A - B, E
CCU-2	HEATCRAFT/BOHN	BCD0400MDACD	(+) 38 F COOLER	1	CONDENSING UNIT	---	40	---	1-5/8" x (2)	2-1/8" x (2)	---	142	150	460/3	4,500	56"	A - D
EV-2A	HEATCRAFT/BOHN	BHA1400SA		1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7	---	460/3	800	51"	A - B, E
EV-2B	HEATCRAFT/BOHN	BHA1400SA		1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7	---	460/3	800	51"	A - B, E
CCU-3	HEATCRAFT/BOHN	BCD0400MDACD	(+) 38 F COOLER	1	CONDENSING UNIT	---	40	---	1-5/8" x (2)	2-1/8" x (2)	---	142	150	460/3	4,500	56"	A - D
EV-3A	HEATCRAFT/BOHN	BHA1400SA		1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7	---	460/3	800	51"	A - B, E
EV-3B	HEATCRAFT/BOHN	BHA1400SA		1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7	---	460/3	800	51"	A - B, E
CCU-4	HEATCRAFT/BOHN	BCD0400MDACD	(+) 38 F COOLER	1	CONDENSING UNIT	---	40	---	1-5/8" x (2)	2-1/8" x (2)	---	142	150	460/3	4,500	56"	A - D
EV-4A	HEATCRAFT/BOHN	BHA1400SA		1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7	---	460/3	800	51"	A - B, E
EV-4B	HEATCRAFT/BOHN	BHA1400SA		1	EVAPORATOR	20,700	1	3	1-5/8"	2-1/8"	1-1/4"	7	---	460/3	800	51"	A - B, E

NOTES:

- A. PROVIDE LOW AMBIENT CONTROL AND R448A REFRIGERANT AND 5YR COMPRESSOR WARRANTY.  
B. EQUIPMENT SIZED FOR 100 DEGREE F AMBIENT TEMPERATURE.  
C. PROVIDE WITH HEATCRAFT VANTAGE AUTO-ROTATE THERMOSTAT CONTROLLER FOR REFRIGERATION SYSTEM. PROVIDE WITH TEMPERATURE SENSORS FOR MOUNTING IN COOLER/FREEZER UNIT SHALL BE PROGRAMMED TO CALL OUT DURING TEMPERATURE ALARMS.  
D. ADD 16" EQUIPMENT SUPPORT RAILS TO CALCULATE OVERALL EQUIPMENT HEIGHT ON ROOF.  
E. PROVIDE WITH HIGH AIRFLOW COLLAR.

OUTSIDE AIR CALCULATIONS

UNIT SERVED	OCCUPANCY CLASSIFICATION	AREA (SQ. FT.)	PEOPLE PER 1,000	FIXED SEATING QUANTITY	QUANTITY OF PEOPLE	REQUIRED OUTSIDE AIR PER PERSON	REQUIRED OUTSIDE AIR PER SF	TOTAL REQUIRED AIRFLOW	NOTES
RTU-1	OFFICE	470	7	---	3	5	0.06	45	A
	CORRIDOR	105	---	---	---	---	0.06	6	A
	CONFERENCE	385	50	---	19	5	0.06	119	A
REQUIRED VENTILATION:								170 CFM	C
RTU-2	OFFICE	1,390	7	---	10	5	0.06	132	A
	CORRIDOR	340	---	---	---	---	0.06	20	A
REQUIRED VENTILATION:								152 CFM	C
RTU-3	CONFERENCE	1,280	50	43	64	5	0.06	292	A
REQUIRED VENTILATION:								292 CFM	C
RTU-4	BREAK ROOM	1,250	25	60	31	5	0.06	375	A
	RESTROOMS	950	---	---	---	---	0.06	57	A
REQUIRED VENTILATION:								432 CFM	C
FCU-1	OFFICE	105	7	---	1	5	0.06	10	A
	RESTROOMS	70	---	---	---	---	0.06	4	A
REQUIRED VENTILATION:								14 CFM	D
FCU-2	OFFICE	105	7	---	1	5	0.06	10	A
	RESTROOMS	70	---	---	---	---	0.06	4	A
REQUIRED VENTILATION:								14 CFM	D
FCU-4	OFFICE	600	7	---	4	5	0.06	57	A
REQUIRED VENTILATION:								57 CFM	C

NOTES:

- A. VENTILATION RATES ARE TAKEN FROM ASHRAE 62.1-2010 - VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY.  
B. VENTILATION IS BASED ON TOTAL QUANTITY OF PEOPLE TAKEN FROM NUMBER OF ACTUAL SEATING SHOWN ON ARCHITECTURAL FLOOR PLAN.  
C. REFER TO RTU SCHEDULE FOR ACTUAL VENTILATION AIRFLOWS.  
D. VENTILATION PROVIDED BY OPERABLE DOORS.

DUCTLESS SPLIT SYSTEM EQUIPMENT SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	SUPPLY FAN		COOLING COIL		ELECTRICAL			VENTILATION (CFM)	WEIGHT (LBS)	NOTES
				CFM	ESP (IN)	TH (MBH)	SH (MBH)	MCA	MOCP	V/PH			
FCU-1	LENNOX	M22A012S4-2P	CEILING MOUNT CASSETTE	400	---	12	8	1	---	---	---	45	F, G
CU-1	LENNOX	MPB012S4S-1P	CONDENSING UNIT	---	---	---	---	12	15	208/1	---	150	A - E
FCU-2	LENNOX	M22A012S4-2P	CEILING MOUNT CASSETTE	400	---	12	8	1	---	---	---	45	F, G
CU-2	LENNOX	MPB012S4S-1P	CONDENSING UNIT	---	---	---	---	12	15	208/1	---	150	A - E
FCU-3	LENNOX	MWMA036S4	WALL MOUNT FAN-COIL	1,000	---	36	28	1	---	---	---	45	F
CU-3	LENNOX	MPB036S4S	CONDENSING UNIT	---	---	---	---	35	50	208/1	---	250	A - E

NOTES:

- A. PROVIDE WITH WIRELESS TEMPERATURE CONTROLLER AND LOW-AMBIENT WIND BAFFLE KIT.  
B. FAN-COIL TO BE POWERED FROM CONDENSING UNIT POWER CIRCUIT. REFER TO INSTALLATION INSTRUCTIONS.  
C. INSTALL CONDENSING UNIT ON TREATED 4X4 WOOD BLOCKING.  
D. PROVIDE WITH 50'-0" PRE-INSULATED LINESET AS REQUIRED.  
E. ELECTRICAL CONTRACTOR TO PROVIDE ASSOCIATED POWER WIRING BETWEEN CU AND FCU.  
F. PROVIDE WITH CONDENSATE PUMP AND DISCHARGE CONDENSATE PER PLANS AS REQUIRED.  
G. VENTILATION PROVIDED BY OPERABLE DOORS.

GRILLE, REGISTER & DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	SIZE	MOUNTING	FINISH	MATERIAL	NOTES
SD-1	PRICE	SPD	SQUARE PLAQUE	24" x 24"	LAY-IN	WHITE	STEEL	
SD-2	PRICE	SPD	SQUARE PLAQUE	24" x 24"	SURFACE	WHITE	STEEL	B
SD-3	PRICE	SPD	SQUARE PLAQUE	12" x 12"	LAY-IN	WHITE	STEEL	
SD-4	PRICE	SPD	SQUARE PLAQUE	12" x 12"	SURFACE	WHITE	STEEL	B
VAV-1	PRICE	VARTHERM	VAV	24" x 24"	LAY-IN	WHITE	STEEL	
LSD-1	PRICE	TBD	LINEAR SLOT	4'-0" X (4) 1" SLOT	LAY-IN	WHITE	STEEL	H
SG-1	PRICE	520DL	WALL MOUNT	AS NOTED	WALL/DUCT	WHITE	STEEL	A
SG-2	PRICE	SDGE	SPIRAL MOUNT	AS NOTED	DUCT	MILL	STEEL	A, C
RG-1	PRICE	PDDR	PERFORATED	24" x 24"	LAY-IN	WHITE	STEEL	
RG-2	PRICE	PDDR	PERFORATED	12" x 24"	LAY-IN	WHITE	STEEL	
RG-3	PRICE	530DL	WALL MOUNT	AS NOTED	WALL/DUCT	WHITE	STEEL	
EX-1	PRICE	APDDR	PERFORATED	24" x 24"	SURFACE	WHITE	ALUMINUM	A, B
EX-2	PRICE	APDDR	PERFORATED	24" x 24"	LAY-IN	WHITE	ALUMINUM	
EX-3	PRICE	APDDR	PERFORATED	12" x 12"	LAY-IN	WHITE	ALUMINUM	

NOTES:

- A. PROVIDE WITH DAMPER OPERABLE FROM FACE OF DEVICE.  
B. PROVIDE WITH SURFACE MOUNT FRAME KIT FOR MOUNTING IN HARD CEILING/WALL.  
C. PROVIDE WITH OPPOSED BLADE DAMPER AND MILL FINISH.  
D. PERFORATED SUPPLY AIR GRILLE TO BE INSTALLED WITHOUT DEFLECTORS.  
E. PROVIDE WITH 2KW ELECTRIC HEAT, WALL MOUNTED WIRELESS THERMOSTAT.  
F. PROVIDE WITH RETURN AIR LIGHT SHIELD.  
G. PROVIDE WITH INSULATED BACKING  
H. PROVIDE WITH FACTORY INSULATED SUPPLY PLENUM.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	QUANTITY	MODEL	LOCATION/ MOUNTING	SERVICE	FAN				ELECTRICAL (V/PH)	WEIGHT (LBS)	NOTES
						CFM	ESP (IN)	RPM	HP/WATTS			
EF-A	GREENHECK	1	G-099	ROOF	RESTROOM EXHAUST	800	0.5	1435	1/4	120/1	100	A, B, E
EF-B	GREENHECK	3	GB-130	ROOF	BATTERY EXHAUST	2,000	0.5	1600	3/4	120/1	120	A, B, C, J
CEF-1	GREENHECK	2	SPA-190	CEILING	RESTROOM EXHAUST	150	0.25	800	50	120/1	25	A, E, H
CEF-2	GREENHECK	1	SPA-090	CEILING	RESTROOM EXHAUST	75	0.25	800	50	120/1	25	A, E, H

NOTES:

- A. PROVIDE FACTORY MOUNTED DIS



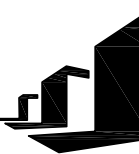






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**SCANNELL**  
PROPERTIES

8/31/2022



LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086

PERMIT SET 08.31.22

210300

PLUMBING PLAN

P1.0

**PLUMBING GENERAL NOTES:**

1. INSTALL ALL PIPE, ETC. AS HIGH AS POSSIBLE.
2. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACES AVAILABLE, AND WITHOUT INTERFERENCES.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF FIXTURES.
4. SAWCUT EXISTING FLOOR AS REQUIRED FOR INSTALLATION OF UNDERFLOOR PIPING. PATCH FLOOR TO MATCH EXISTING.
5. NO PIPING SHALL BE ROUTED OVER THE TOP OF ELECTRICAL PANELS.
6. ALL MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.

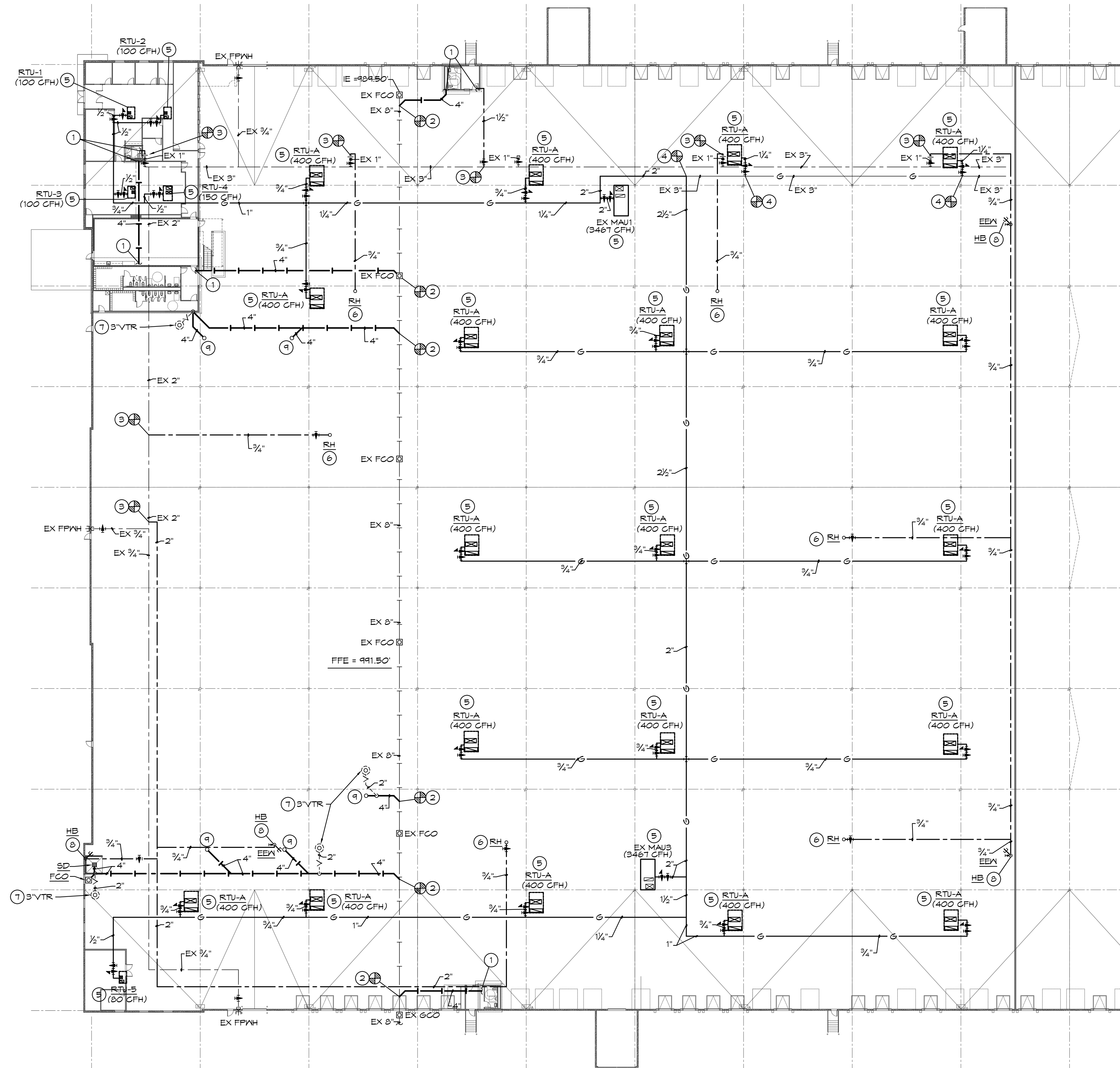
**PLUMBING PLAN NOTES:**

1. REFER TO ENLARGED PLUMBING PLAN ON SHEET P1.2 FOR CONTINUATION.
2. CONNECT WASTE TO EXISTING SANITARY SEWER AS REQUIRED. VERIFY EXACT LOCATION AND ELEVATION PRIOR TO INSTALLATION OF ANY PIPING.
3. CONNECT WATER TO EXISTING DOMESTIC WATER AS REQUIRED. VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
4. CONNECT GAS TO EXISTING NATURAL GAS AS REQUIRED. VERIFY EXACT SIZE, LOCATION AND PRESSURE PRIOR TO INSTALLATION OF ANY PIPING.
5. CONNECT GAS TO EQUIPMENT AS REQUIRED AND AS DETAILED. GAS PRESSURE REGULATOR SHALL BE ON ROOF.
6. INSTALL ROOF HYDRANT AS REQUIRED.
7. LOCATION OF 3" VTR. VERIFY 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. COORDINATE WITH GENERAL CONTRACTOR TO SEAL PENETRATION WEATHERTIGHT.
8. INSTALL HOSE BIBB AS REQUIRED.
9. INSTALL HUB DRAIN AS REQUIRED.

**PLUMBING SYMBOLS**

	SOIL AND WASTE PIPING BELOW FLOOR/GRADE
	SOIL AND WASTE PIPING ABOVE FLOOR/GRADE
	SANITARY VENT PIPING ABOVE GRADE
	SANITARY VENT PIPING BELOW GRADE
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER RECIRCULATION PIPING
	GAS PIPING
	EQUIPMENT DRAIN LINE
	COMPRESSED AIR PIPING BELOW FLOOR
	PIPING TURNING DOWN
	PIPING TURNING UP
	TEE TOP CONNECTION
	UNION
	BACKFLOW PREVENTER
	FLOOR DRAIN
	FLOOR CLEAN OUT
	WALL CLEAN OUT
	GRADE CLEAN OUT
	VALVE
	BALANCING VALVE
	SOLENOID VALVE
	PRESSURE REGULATOR
	CHECK VALVE
	CONNECT TO EXISTING
	INVERT ELEVATION OF PIPE
	MATCH MARKS ON PLUMBING RISER DIAGRAM
	CONTROL WIRING
	REFRIGERANT PIPING
	CHECK VALVE
	THERMOMETER
	PRESSURE GAUGE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	PETE'S PLUG
	Y STRAINER
	VACUUM RELIEF VALVE

ALL STORM PIPING IS EXISTING TO REMAIN.

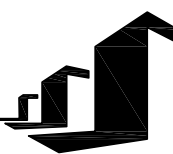






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LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

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NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086

PERMIT SET 08.31.22

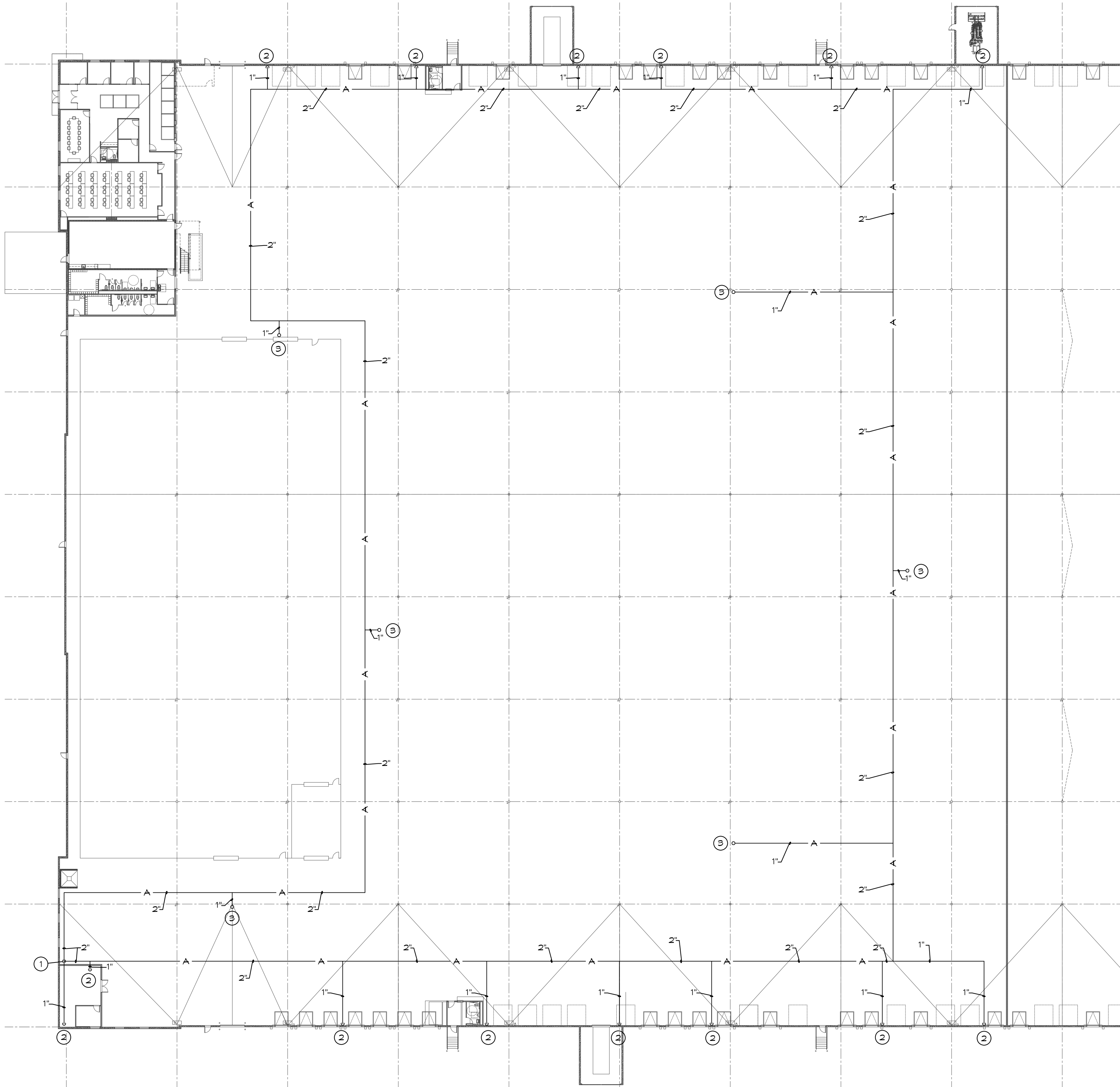
210300

COMPRESSED AIR PLAN

P1.1

**PLUMBING PLAN NOTES:**

- ① AIR PIPE WITH SHUT OFF VALVE DOWN TO AIR COMPRESSOR AND REGULATOR FURNISHED BY OTHERS. VERIFY EXACT LOCATION OF AIR CONNECTION AND COMPRESSED AIR REQUIREMENTS WITH MANUFACTURER'S SPECIFICATIONS.
- ② AIR PIPE WITH SHUT OFF VALVE 4'-0" AFF. SUPPORT AS REQUIRED.
- ③ AIR PIPE WITH SHUT OFF VALVE ABOVE ROOF. SUPPORT AS REQUIRED.



**PARTIAL COMPRESSED AIR FLOOR PLAN**  
SCALE: 1" = 30'-0" FFE = 991.50'

**CENTRAL**  
PLUMBING, HEATING & AIR CONDITIONING, INC.  
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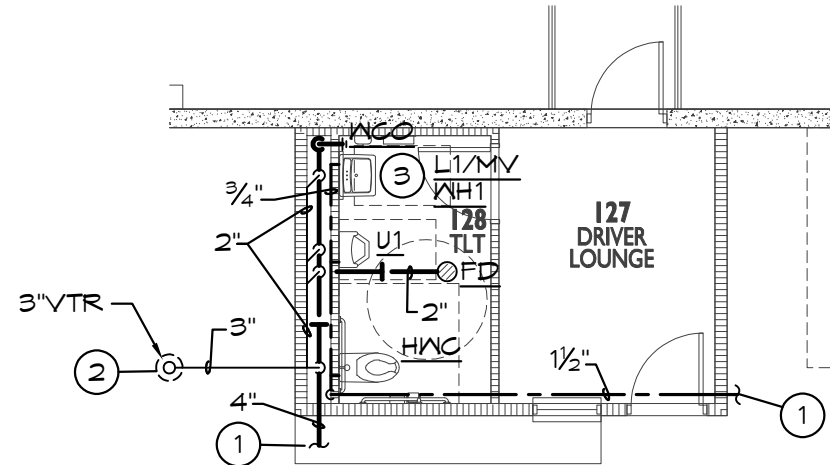
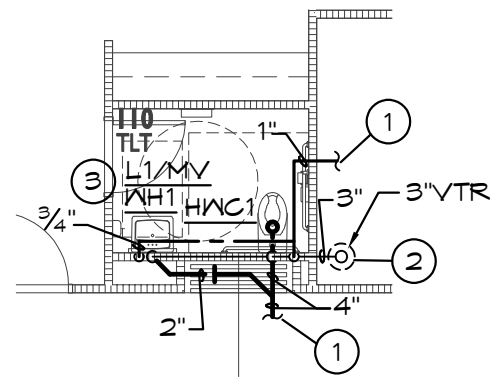
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ENLARGED PLUMBING  
PLANS

P1.2

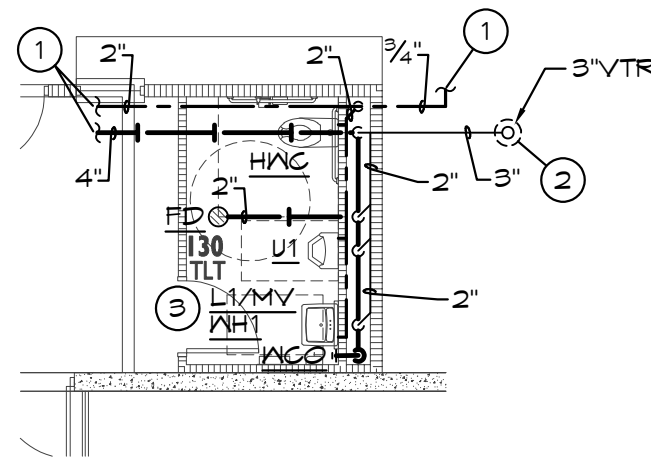
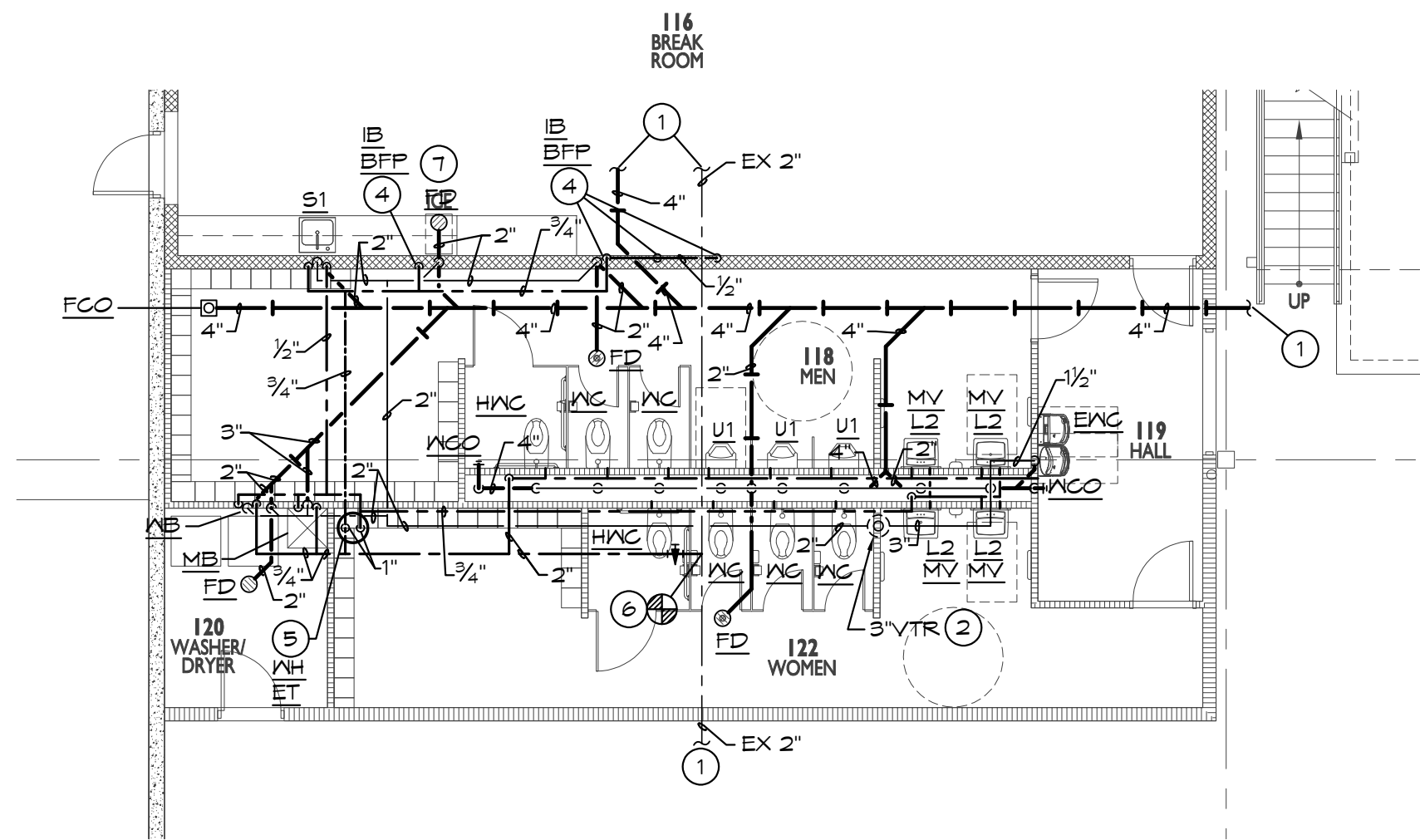
PLUMBING PLAN NOTES:

- 1 REFER TO PARTIAL PLUMBING PLAN ON P1.0 FOR CONTINUATION.
- 2 LOCATION OF 3" VTR. VERIFY 10' CLEARANCE FROM ALL OUTDOOR AIR INTAKES. SEAL PENETRATION WEATHERTIGHT.
- 3 INSTANTANEOUS WATER HEATER LOCATED BELOW SINK/LAV. SUPPORT FROM WALL PER THE MANUFACTURES REQUIREMENTS.
- 4 PROVIDE BFP AND CONNECT CW TO ICE MAKER AND COFFEE MAKER AS REQUIRED.
- 5 SUPPORT WATER HEATER FROM STRUCTURE ABOVE CEILING. PROVIDE GALVANIZED DRAIN PAIN UNDER WATER HEATER WITH DRAIN. ROUTE INDIRECT DRAIN PIPING TO MOP BASIN WITH AIR GAP.
- 6 CONNECT WATER TO EXISTING DOMESTIC WATER AS REQUIRED. VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
- 7 PROVIDE INDIRECT DRAIN FROM ICE MAKER TO FLOOR DRAIN WITH AIR GAP.



**ENLARGED PLUMBING FLOOR PLAN**  
SCALE: 1/8" = 1'-0"  
NORTH  
FFE = 991.50'

**ENLARGED PLUMBING FLOOR PLAN**  
SCALE: 1/8" = 1'-0"  
NORTH  
FFE = 991.50'



**ENLARGED PLUMBING FLOOR PLAN**  
SCALE: 1/8" = 1'-0"  
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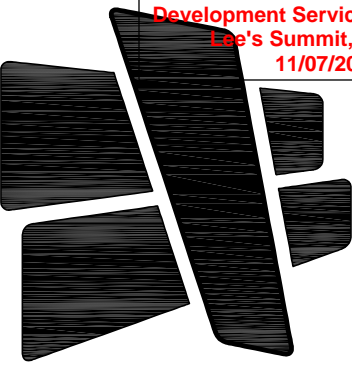
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# SCANNELL PROPERTIES

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## LEE'S SUMMIT LOGISTICS BUILDING A LOT I

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PLUMBING SCHEDULES AND  
DETAILS

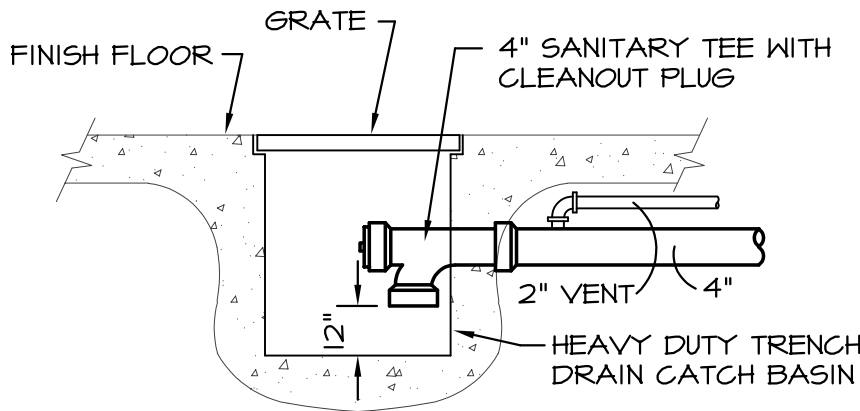
P2.0

## PIPE HANGER SCHEDULE

PIPE MATERIAL	MAXIMUM HANGER SPACING	HANGER ROD DIAMETER
ABS (All sizes)	4'	3/8"
PVC (All Sizes)	4'	3/8"
CPVC, 1 inch and smaller	3'	1/2"
CPVC, 1-1/4 inches and larger	4'	1/2"
Cast Iron (All Sizes)	5'	5/8"
Cast Iron (All Sizes) with 10 foot length of pipe	10'	5/8"
Copper Tube, 1-1/4 inches and smaller	6'	1/2"
Copper Tube, 1-1/2 inches and larger	10'	1/2"
Steel, 3 inches and smaller	12'	1/2"
Steel, 4 inches and larger	12'	5/8"
Pex, 1" and below without support channel	32"	3/8"
Pex, 1-1/4" and above without support channel	48"	3/8"
Pex 3/4" and below with support channel	6'	3/8"
Pex 1" and above with support channel	8'	3/8"

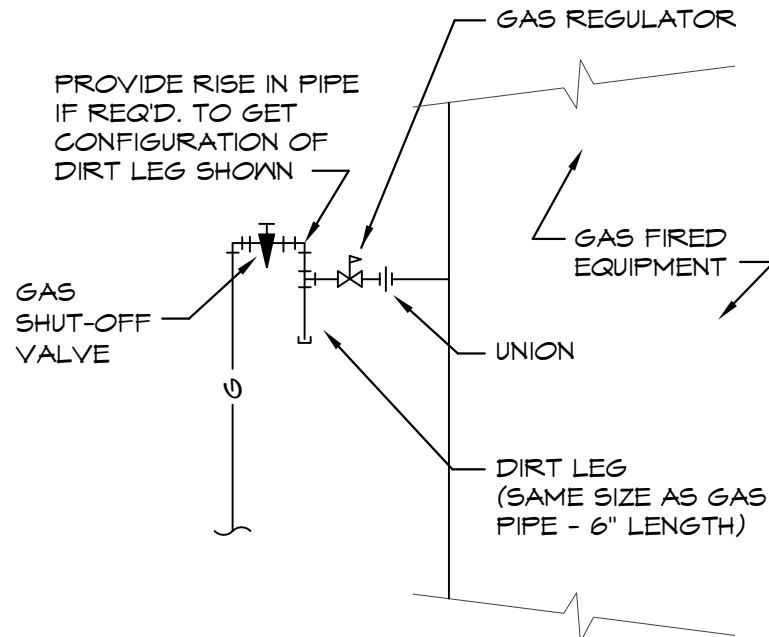
## PEX PIPING REQUIREMENTS

PIPE SIZES GIVEN ON THE DRAWINGS ARE NOMINAL COPPER PIPE  
SIZE. IF PEX PIPING IS USED, INCREASE PEX PIPING ONE SIZE  
ABOVE LISTED SIZES AS REQUIRED TO EQUAL OR EXCEED  
COPPER PIPE INSIDE DIAMETER.



## CATCH BASIN DETAIL

SCALE: NONE



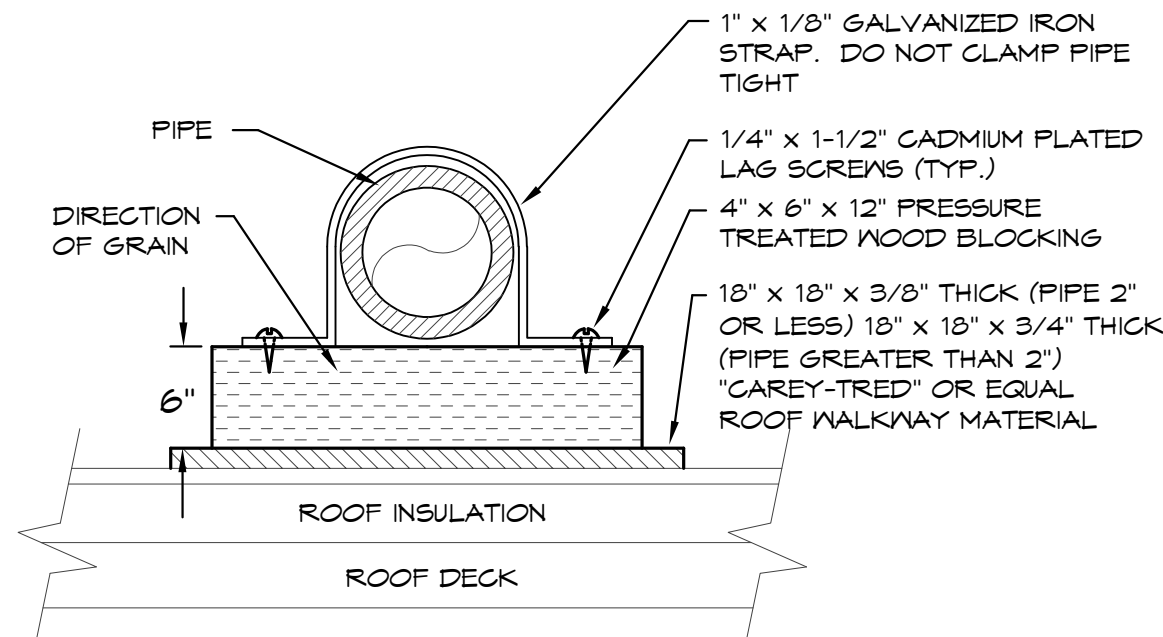
GAS PRESSURE REGULATORS FOR GAS FIRED EQUIPMENT  
SHALL BE SENSUS #243-B, 5 PSI INLET / 7" INCH OUTLET  
PRESSURE WITH THE ORIFICE & SPRING SIZE AS  
RECOMMENDED BY THE MANUFACTURER.

PROVIDE GAS REGULATOR FOR EVERY PIECE OF GAS  
FIRED EQUIPMENT. VENT ON REGULATOR SHALL BE  
VENTED WITH FULL SIZE PIPE TO EXTERIOR OF BLDG.  
FLASH BLDG PENETRATION WEATHER TIGHT.

## GAS CONNECTION DETAIL

SCALE: NONE

FOR ROOFTOP UNITS, MAKE-UP AIR UNITS,  
ETC. WITH 2 PSI GAS PRESSURE



## ROOF PIPE SUPPORT DETAIL

SCALE: NONE

## PLUMBING FIXTURE SCHEDULE (OR EQUAL):

<b>WC</b>	WATER CLOSET (HANDICAPPED): SAME AS WC, EXCEPT 18" HIGH BOWL FOR HANDICAPPED.
<b>WC</b>	WATER CLOSET: AMERICAN STANDARD #2257.001, VITREOUS CHINA, WALL HUNG, ELONGATED BOWL, SIPHON JET ACTION, SLOAN #111 FLUSH VALVE, 1.6 GAL/FLUSH, CENTOCO #STSCG-001 OPEN FRONT ELONGATED SEAT, FLOOR MOUNTED FIXTURE SUPPORT (HEAVY DUTY 500 LB CAPACITY).
<b>HWC1</b>	WATER CLOSET (HANDICAPPED): AMERICAN STANDARD, #3043.001 "MADERA ADA", VITREOUS CHINA, FLOOR MOUNTED, FLOOR OUTLET, 17-1/2" HIGH ELONGATED BOWL, SIPHON-JET ACTION, SLOAN "ROYAL" #111 FLUSH VALVE, 1.6 GAL/FLUSH, CENTOCO #STSCG-001 OPEN FRONT ELONGATED SEAT WITH CHECK HINGE HANDLE ON WIDE SIDE OF FIXTURE.
<b>U</b>	URINAL, WALL HUNG: AMERICAN STANDARD, #6561.017 "TRIMBROOK", VITREOUS CHINA, 0.5 GPM WASH OUT ACTION, WALL HUNG URINAL WITH 3/4" TOP SPUD, SLOAN #186-1.0 FLUSH VALVE, FLOOR MOUNTED FIXTURE SUPPORT. SET RIM HEIGHT PER ARCHITECTURAL DRAWINGS.
<b>L1</b>	HANDICAP LAVATORY, WALL HUNG: AMERICAN STANDARD #03553012 "LUCERN", 20"x 18", VITREOUS CHINA, FRONT OVERFLOW, DELTA #B501LF FAUCET WITH SINGLE METAL LEVER FAUCET, OFFSET GRID ELBOW DRAIN AND 1-1/4" TAILPIECE, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT (MOUNTED PARALLEL WITH WALL), CHROME PLATED LOOSE KEY ANGLE STOPS AND RISERS, FLOOR MOUNTED CONCEALED ARM LAVATORY SUPPORT, INSULATE EXPOSED DRAIN, WATER SUPPLIES, AND VALVES WITH PROWRAP SEAMLESS MOLDED CLOSED CELL VINYL INSULATION.
<b>L2</b>	HANDICAP LAVATORY, COUNTERTOP: AMERICAN STANDARD, #0476.028 "AQUALYN", VITREOUS CHINA, 20"x 17" OVAL BASIN, DELTA #B501LF FAUCET WITH SINGLE METAL LEVER HANDLE, OFFSET GRID DRAIN WITH 1-1/4" TAILPIECE, CHROME PLATED P-TRAP (MOUNTED PARALLEL WITH WALL), CHROME PLATED ANGLE STOPS AND RISERS, INSULATE EXPOSED DRAIN, WATER SUPPLIES, AND VALVES WITH PROWRAP SEAMLESS MOLDED CLOSED CELL VINYL INSULATION.
<b>S1</b>	SINK-ELKAY, #LRAD-2222, 19"X16"x 6-1/2" DEEP BOWL, 21-3/8"x 21-3/8" CUT-OUT, ADA COMPLIANT, SINGLE COMPARTMENT, SELF-RIMMING STAINLESS STEEL SINK WITH SATIN FINISH AND SOUND DAMPENING UNDERCOATING, #LK-1000CR FAUCET, SWING SPOUT, AERATOR, SINGLE LEVER HANDLE, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, CHROME PLATED ANGLE STOPS AND RISERS, IN-SINK-ERATOR #BADGER 3 DISPOSAL, 1/2 HP, 120 VOLT.
<b>MB</b>	MOP BASIN: FIAT, #MSB-2424, MOLDED STONE MOP BASIN, 2" DRAIN, 24"x 24" BASIN, VINYL BUMPER GUARD, STERN WILLIAMS #T-10-VB FAUCET, SPRING CHECKS, VACUUM BREAKER, INTEGRAL STOPS, WALL BRACE & PAIL HOOK, WALL BRACKET WITH 30' HOSE.
<b>ENC</b>	ELECTRIC WATER COOLER: OASIS, #P68ACSL, BARRIER FREE TWO-STATION WATER COOLER, 8.0 GPM, 50 DEGREES F WATER WITH 40 DEGREES F AIR TEMPERATURE, 120 VOLT, COLOR TO BE SELECTED BY ARCHITECT AFTER AWARD OF CONTRACT, FRONT AND SIDE ANTIMICROBIAL PUSH PADS, ANTIMICROBIAL FLEX BUBBLERS, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, CHROME PLATED LOOSE KEY ANGLE STOP, FLOOR MOUNTED CARRIER AND CANE APRON.
<b>FD</b>	FLOOR DRAIN: JR SMITH, #2005-A, CAST IRON FLOOR DRAIN WITH ADJUSTABLE TOP, 6" NIKALOY STRAINER. PROVIDE WITH #2642 QUAD GLOBE TRAP SEAL DEVICE.
<b>EEW</b>	PORTABLE EYE WASH STATION: BRADLEY #519-421, SELF-CONTAINED, LOCATED AT EACH CHARGING STATION.
<b>HB</b>	HOSE BIBB: PRIER, #P-164, 3/4" HOSE NOZZLE OUTLET, SATIN NICKEL PLATED BODY FINISH, HANDWHEEL OPERATED, INTEGRAL VACUUM BREAKER.
<b>IB</b>	ICE BOX: SIOUX CHIEF #696-1000, ICE BOX WITH 1/2" INLET AND CONNECTION AND 1/4-TURN SHUT OFF VALVE.
<b>WH1</b>	TANKLESS HOT WATER HEATER: STIEBEL ELTRON MINI 3, 120 VOLT, 3.0 KM.
<b>WH</b>	HOT WATER HEATER: AO SMITH #DEL-40, 40 GALLON STORAGE, 208 VOLT/1 PHASE, (2) 6000 WATT ELEMENT, NON-SIMULTANEOUS, ASME TEMPERATURE AND PRESSURE RELIEF VALVE.
<b>ET</b>	HOT WATER EXPANSION TANK: AMTROL, #ST-5, 2 GALLON EXPANSION TANK WITH DIAPHRAGM.
<b>MV</b>	MIXING VALVE: WATTS, #LFUSG-B, THERMOSTATIC CONTROLLED MIXING VALVE, LEAD FREE BRONZE BODY, LOCKED TEMPERATURE ADJUSTMENT CAP (VANDAL RESISTANT), COPPER ENCAPSULATED THERMOSTAT ASSEMBLY WITH BRASS SHUTTLE, STAINLESSSTEEL SPRINGS, INTEGRAL CHECK VALVES ON HOT AND COLD INLETS. (SET TO 110°F). ASSE 1070 LISTED.
<b>BFP</b>	BACKFLOW PREVENTOR: WATTS #SD-3, DUAL CHECK VALVE WITH ATMOSPHERIC PORT & STRAINER FOR CARBONATED BEVERAGE MACHINES
<b>RH</b>	FREEZELESS ROOF HYDRANT: WOODFORD #RHY2-MS, HEAVY-DUTY CAST IRON MOUNTING SYSTEM, AUTOMATICALLY DRAIN WHEN SHUT OFF, ASSE 1052 DOUBLE CHECK BACKFLOW PREVENTOR.
<b>WB</b>	WASHER BOX : SIOUX CHIEFS "OXBOX" 696 SERIES WASHER OUTLET BOX WITH BUILT IN WATER HAMMER ARRESTER WITH 1-1/2" DRAIN OUTLET AND TAILPIECE, AND 1/2" HOT & COLD WATER CONNECTION.
<b>SD</b>	SCRUBBER DRAIN: RELIABLE CONCRETE 3030/2150SC CATCH BASIN REINFORCED, CLAY & BAILEY 2150BS 135" GRATE.
<b>WHA</b>	WATER HAMMER ARRESTOR: JR SMITH "HYDROTROL" #5000 LEAD-FREE WATER HAMMER ARRESTOR, SIZED AS PER MANUFACTURER'S RECOMMENDATIONS.
<b>FCO/MCO</b>	VINYL TILE FLOOR: JR SMITH #4140, OR EQUAL. QUARRY TILE FLOOR: JR SMITH #4200, OR EQUAL. CARPETED FLOOR: JR SMITH #4030-Y, OR EQUAL. UNFINISHED FLOOR: JR SMITH #4020, OR EQUAL.

## PLUMBING FIXTURE BRANCH PIPING SCHEDULE

FIXTURE	WASTE	VENT	CN	HN
WATER CLOSET (FLUSH VALVE)	4"	2"	1"	- -
URINAL	2"	1-1/2"	3/4"	- -
LAVATORY	1-1/4"	1-1/4"	1/2"	1/2"
SINK	1-1/2"	1-1/2"	1/2"	1/2"
FLOOR DRAIN	2"	2"	- -	- -
MOP BASIN	2"	2"	1/2"	1/2"
ELECTRIC WATER COOLER (BI-LEVEL)	1-1/2"	1-1/2"	1/2"	- -

NOTE: INDIVIDUAL VENTS FOR FIXTURES ON PLANS AND RISER  
DIAGRAMS HAVE BEEN INCREASED WHERE HORIZONTAL VENT LENGTH  
IS IN EXCESS OF THE MAXIMUM DISTANCE INDICATED BY THE CODE.

BC PROJECT #22208  
MISSOURI PE COA #2009003629

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Cleveland, MO 64734  
816-942-6355



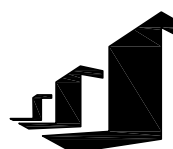
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PROPERTIES

8/31/2022



LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

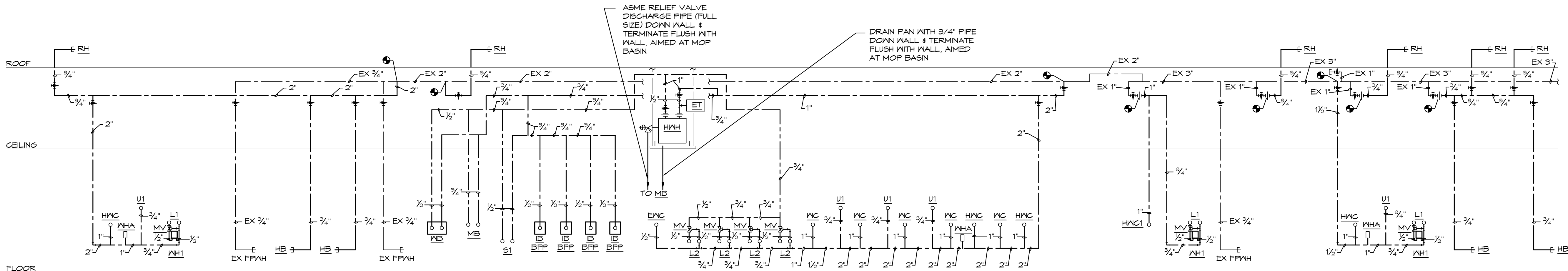
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LEE'S SUMMIT, MO 64086

PERMIT SET 08.31.22

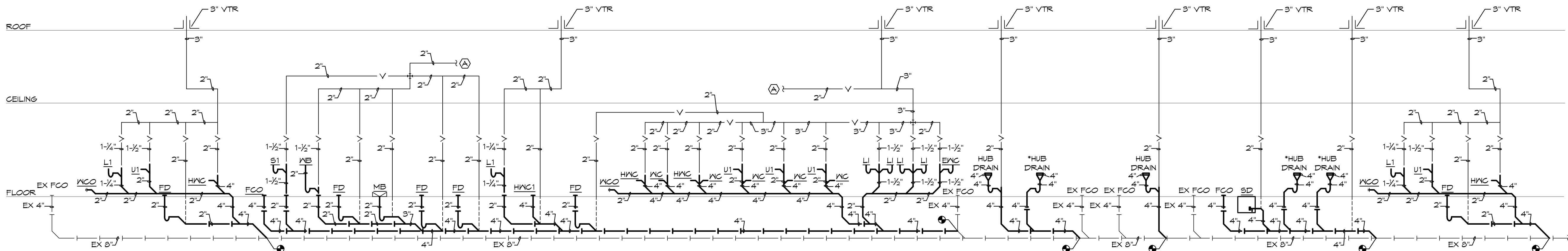
210300

PLUMBING RISERS

P2.1



HOT & COLD WATER



\* = COMBINATION WASTE & VENT DRAIN

WASTE & VENT

**PLUMBING RISER DIAGRAMS**

SCALE: NONE

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MISSOURI PE COA #2009003629  
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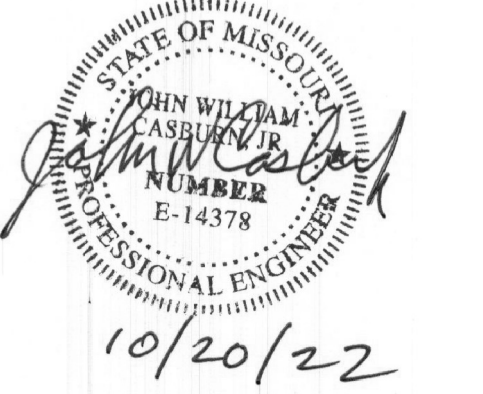
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

NW CORNER OF  
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LEE'S SUMMIT, MO 64086

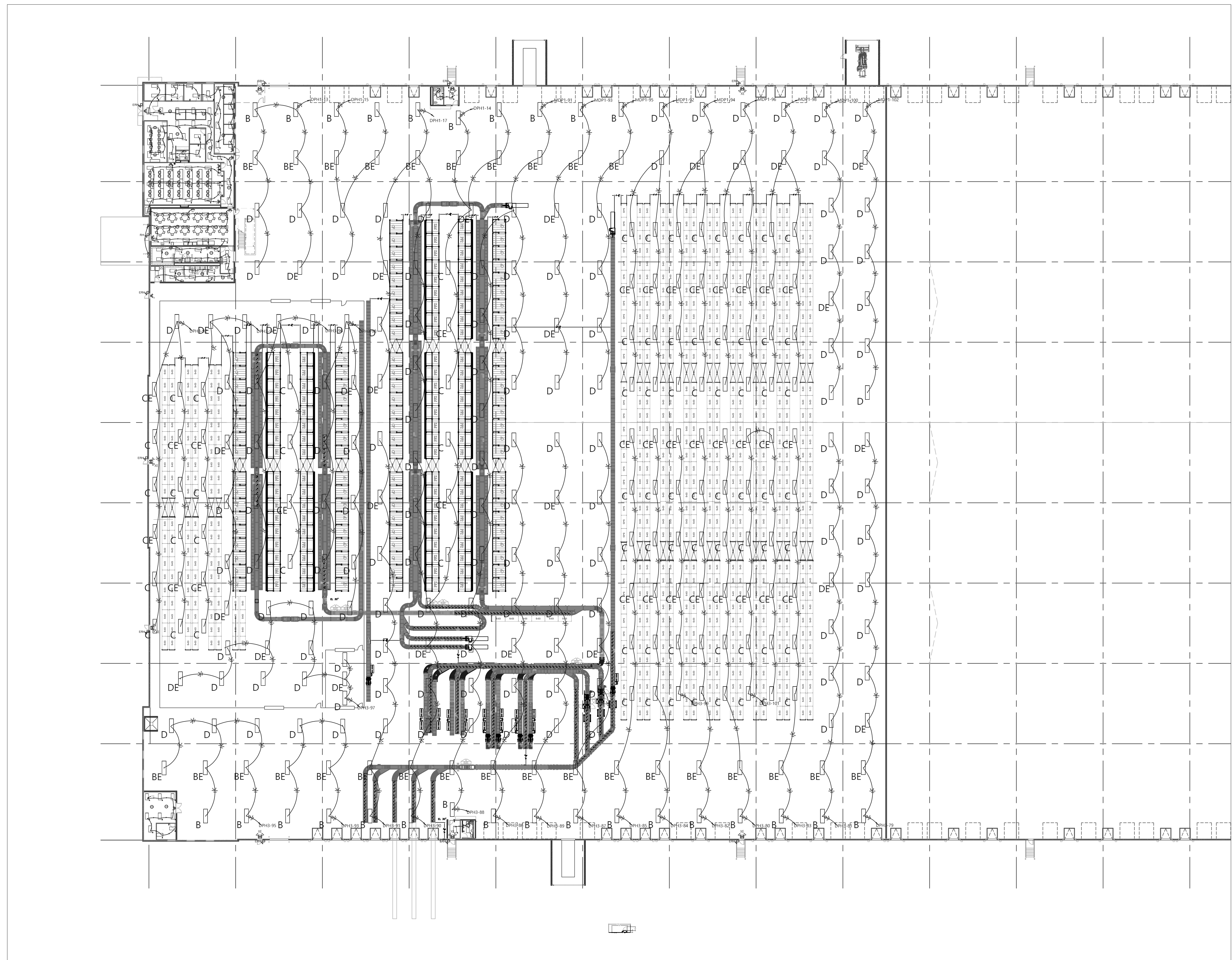
ISSUE DATES

PERMIT SET	02.18.22
CITY COMMENTS	10.17.22


210300

WAREHOUSE LIGHTING

**EI.0**



**1** Warehouse lighting Plan  
scale: 1"=30'

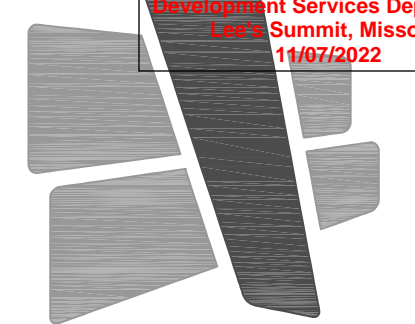


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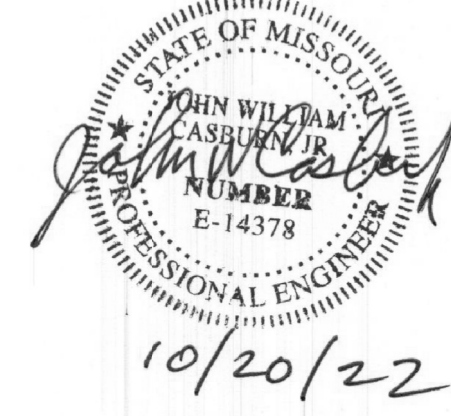


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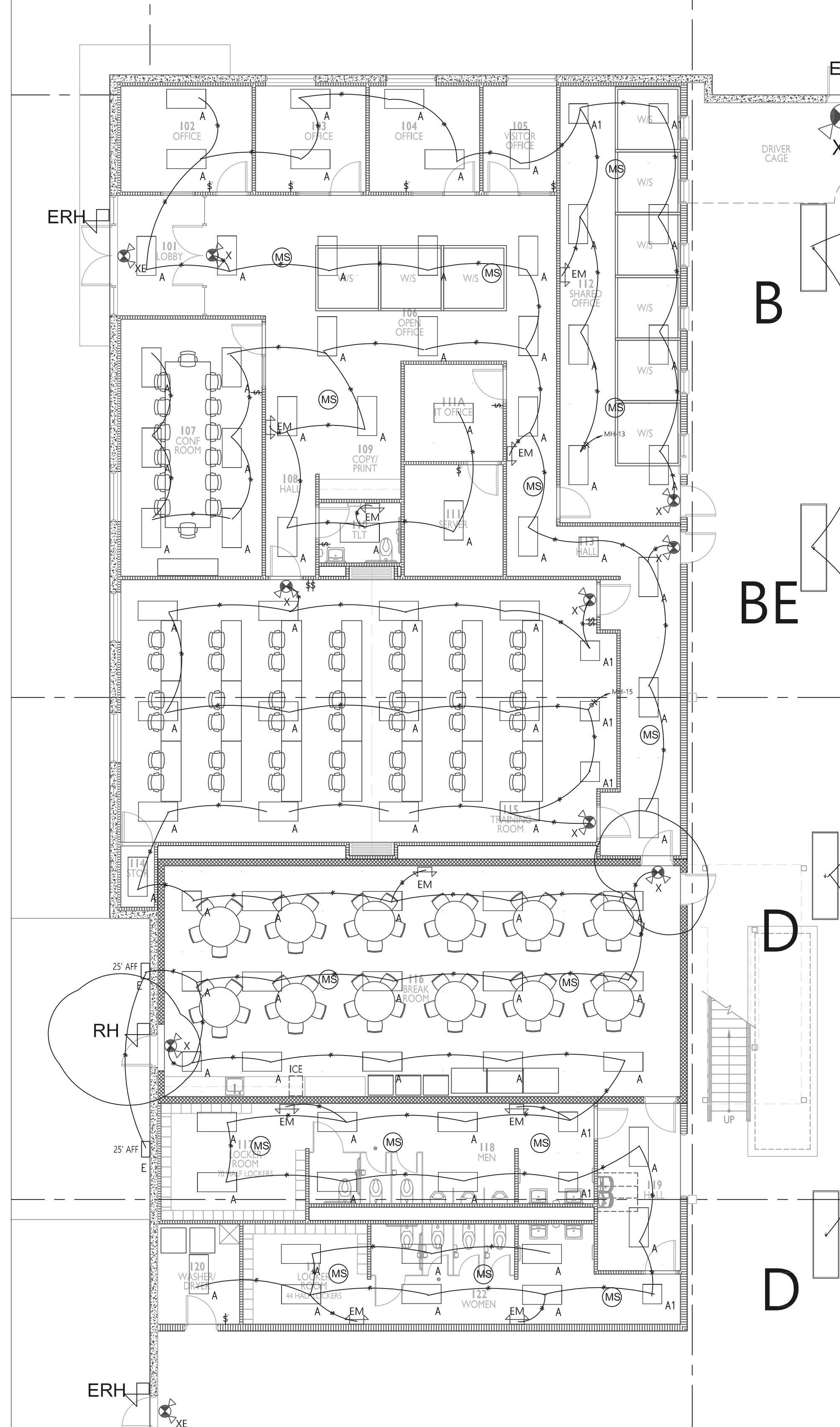
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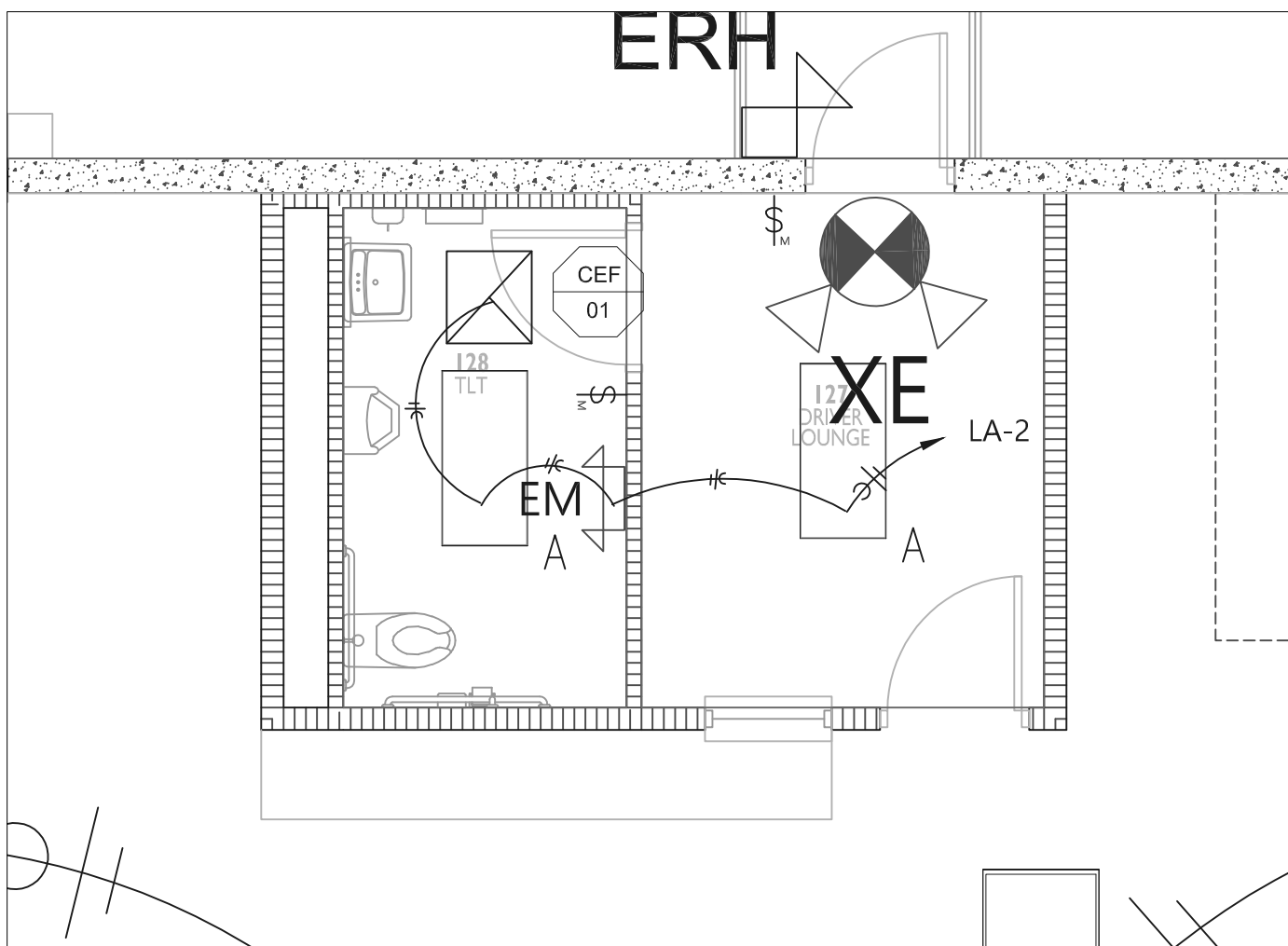

210300

OFFICE LIGHTING

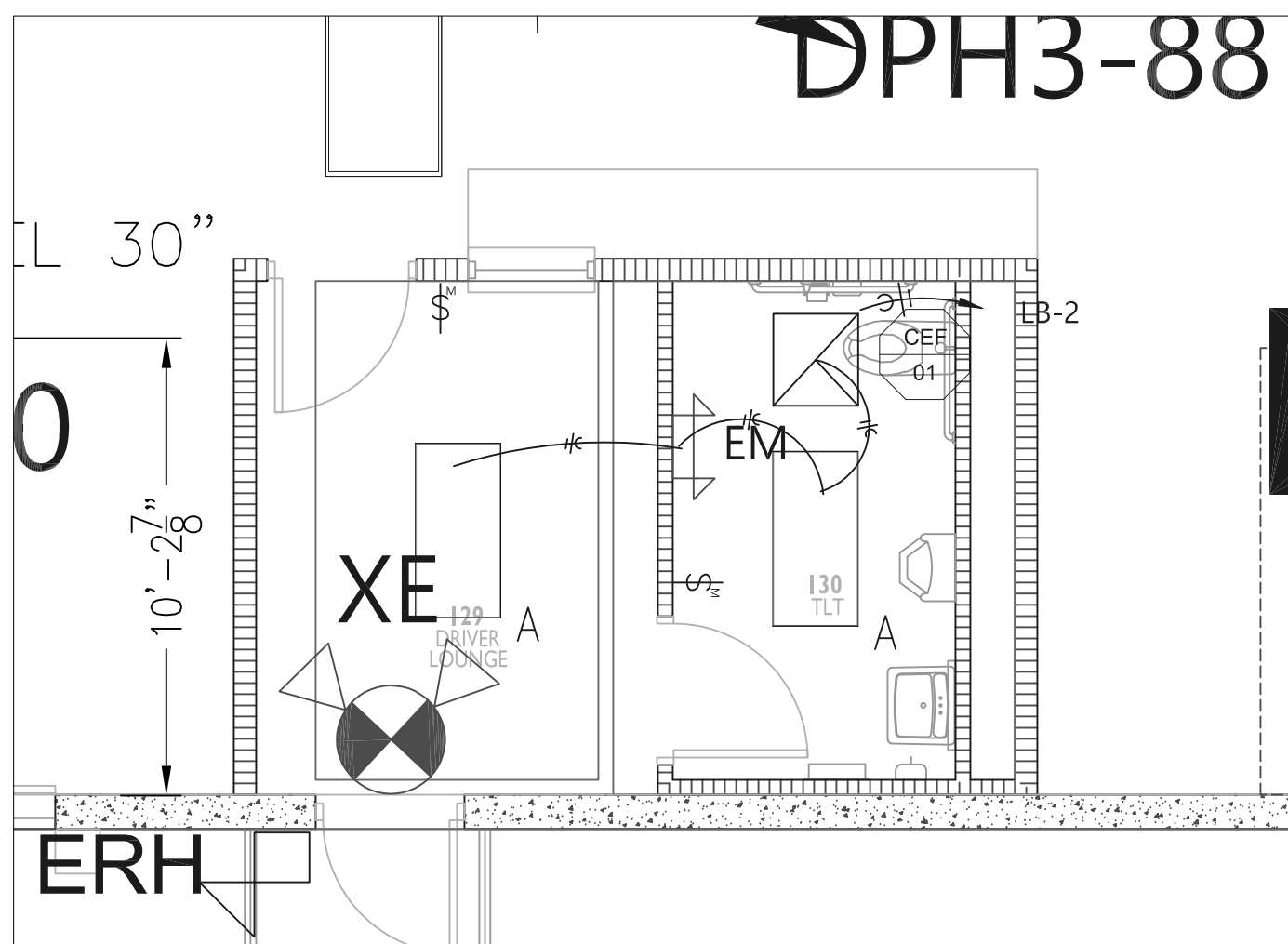
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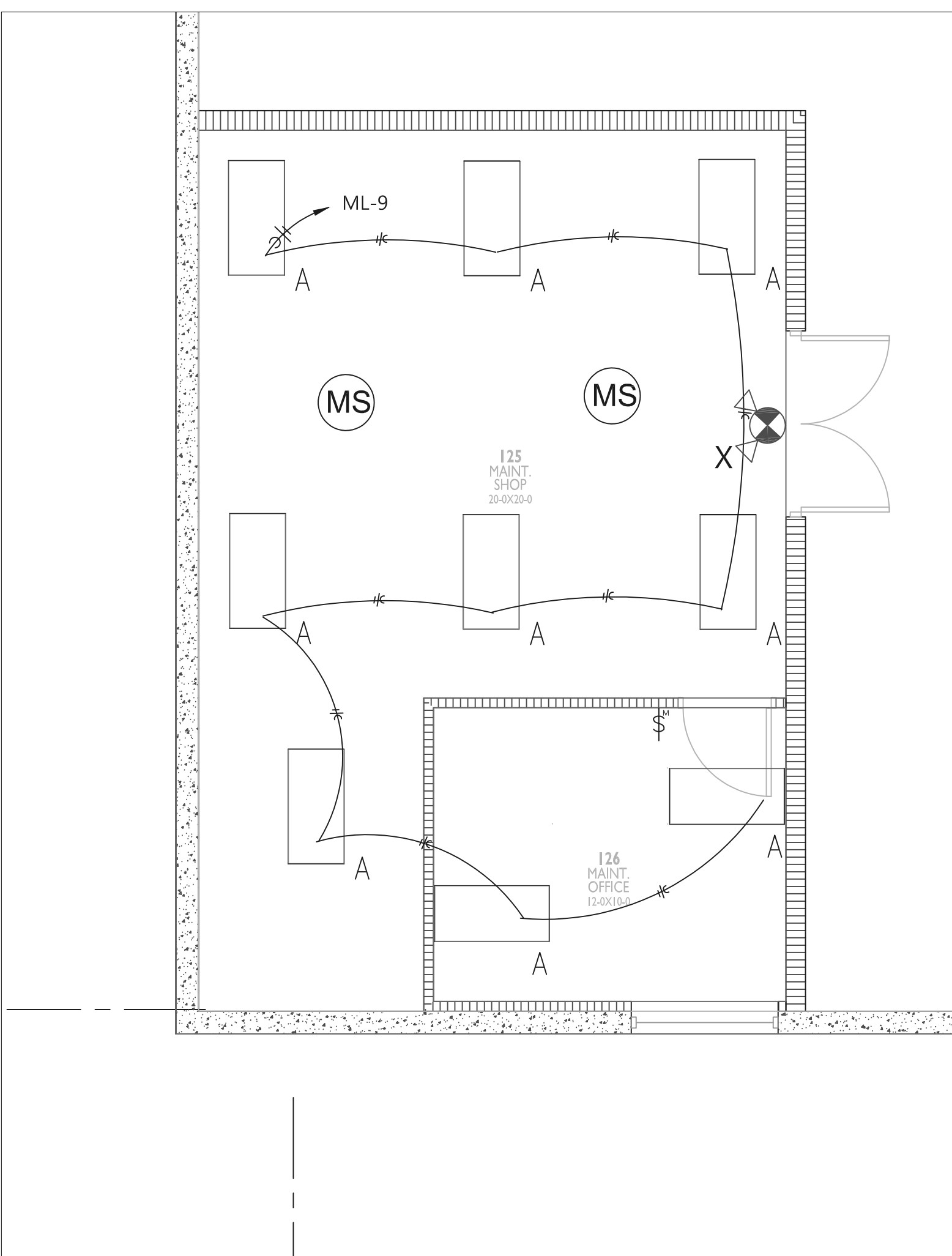
**1** Office lighting Plan  
scale: 1/8"=1'



**2** Drivers Office lighting Plan  
scale: 1/4"=1'



**3** Drivers Office lighting Plan  
scale: 1/4"=1'



**4** Maintenance Office lighting Plan  
scale: 1/4"=1'



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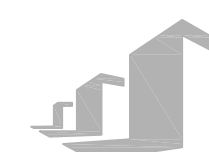


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## PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT 1

NW CORNER OF  
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## ISSUE DATES

PERMIT SET	02.18.22
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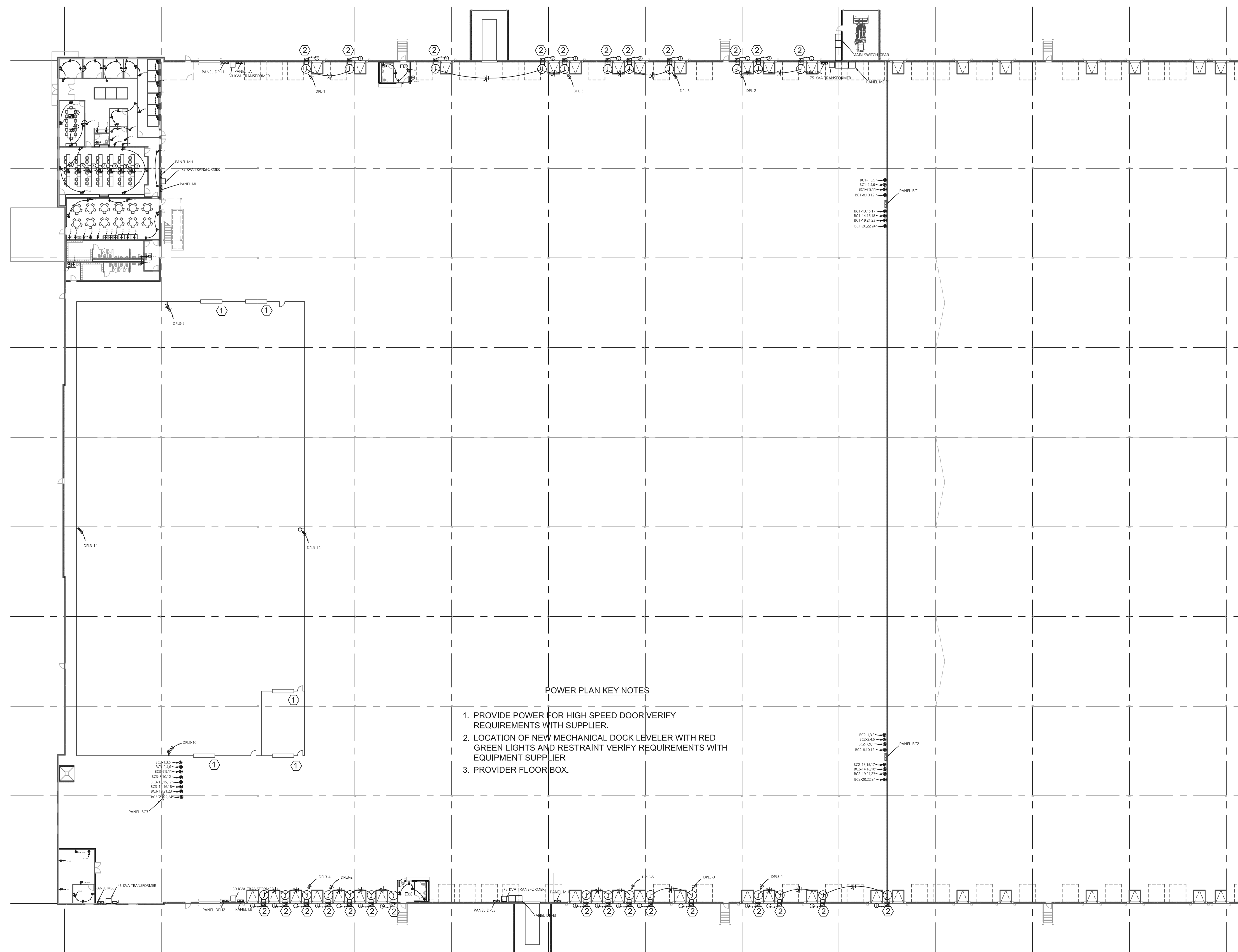
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210300

## WAREHOUSE POWER

## E2.0

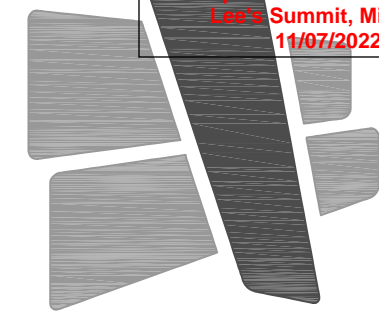


# 1 Warehouse Power Plan

scale: 1"=30'

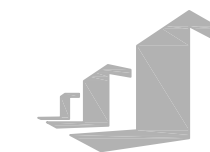






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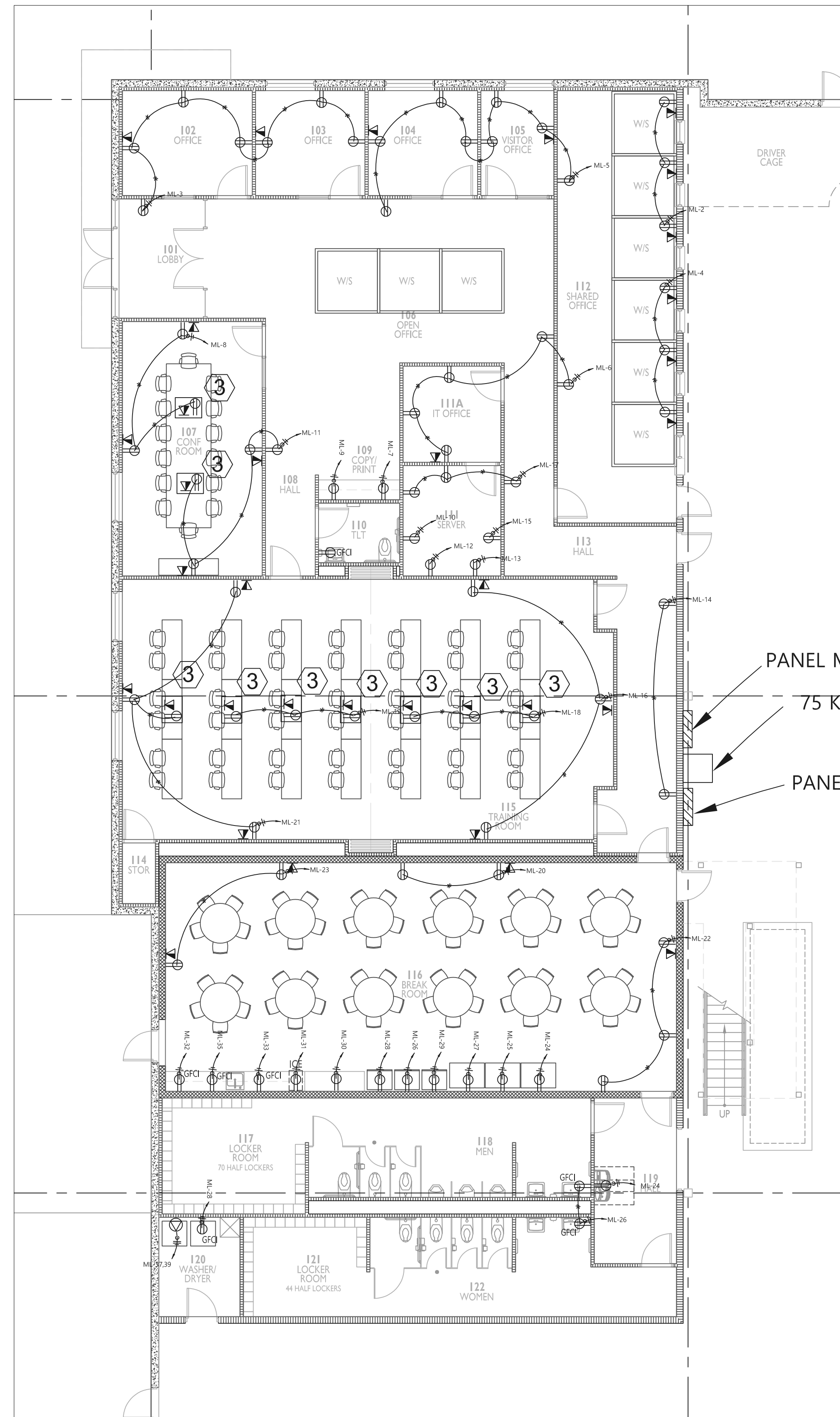
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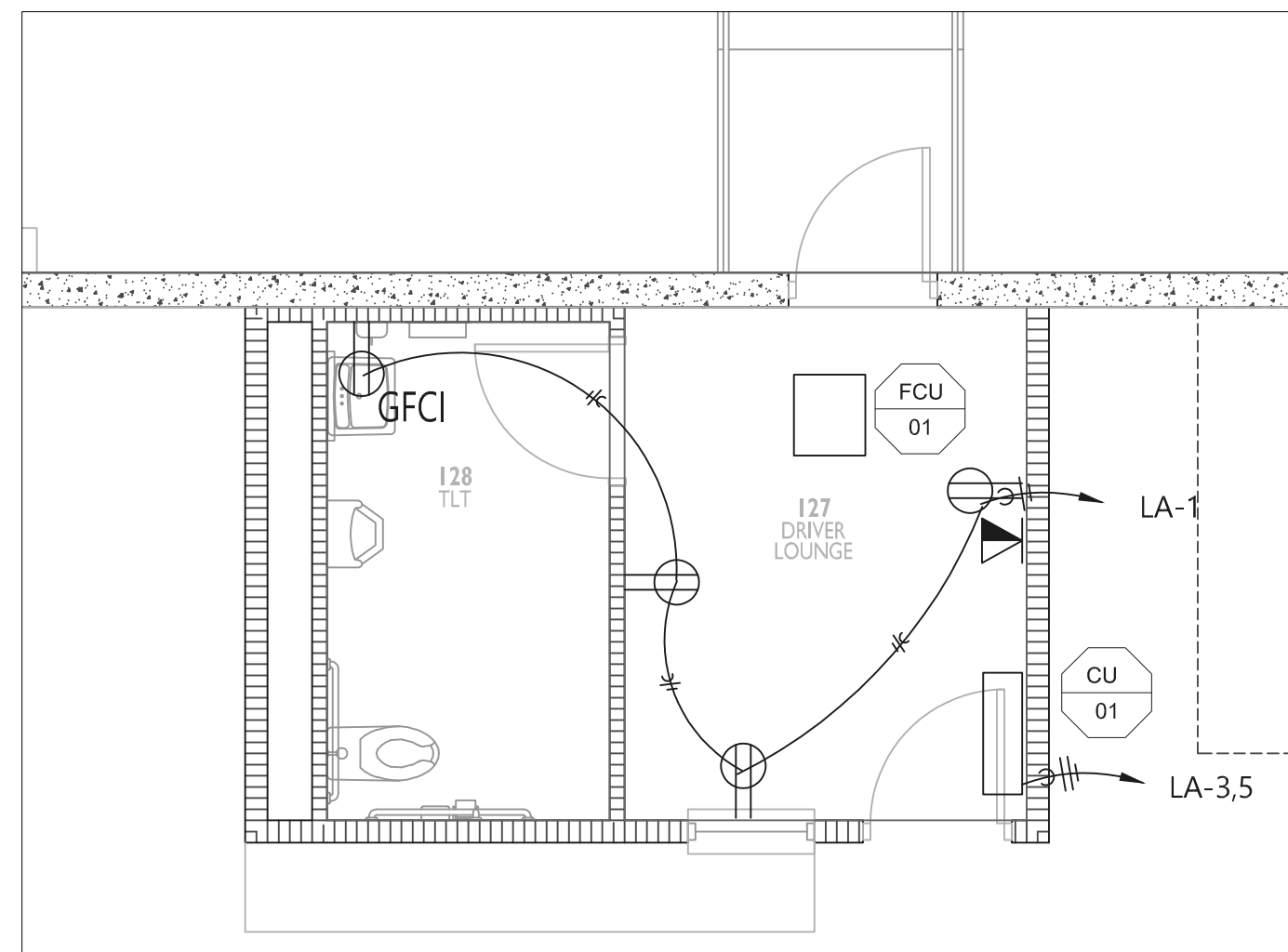

210300

OFFICE POWER

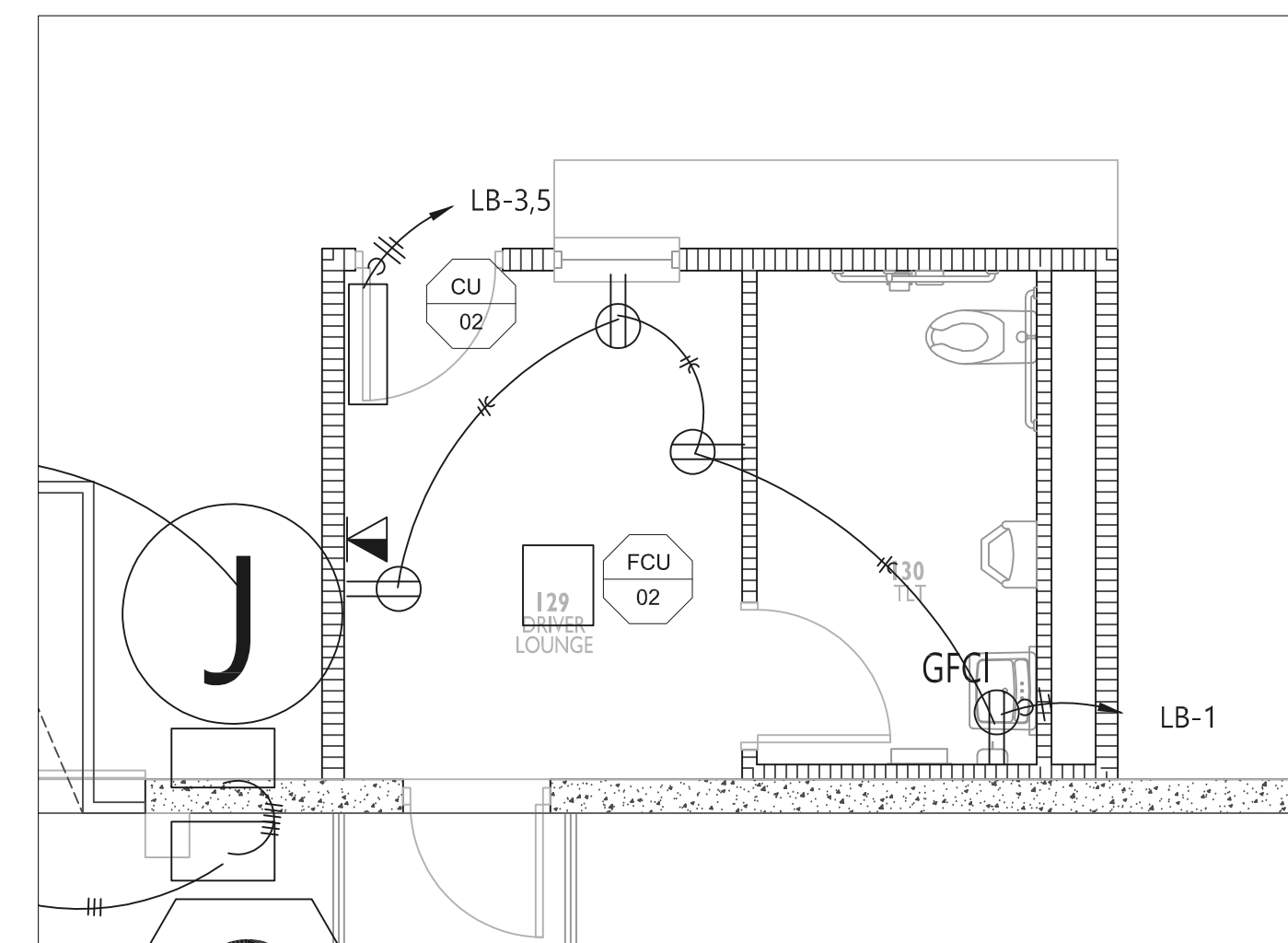
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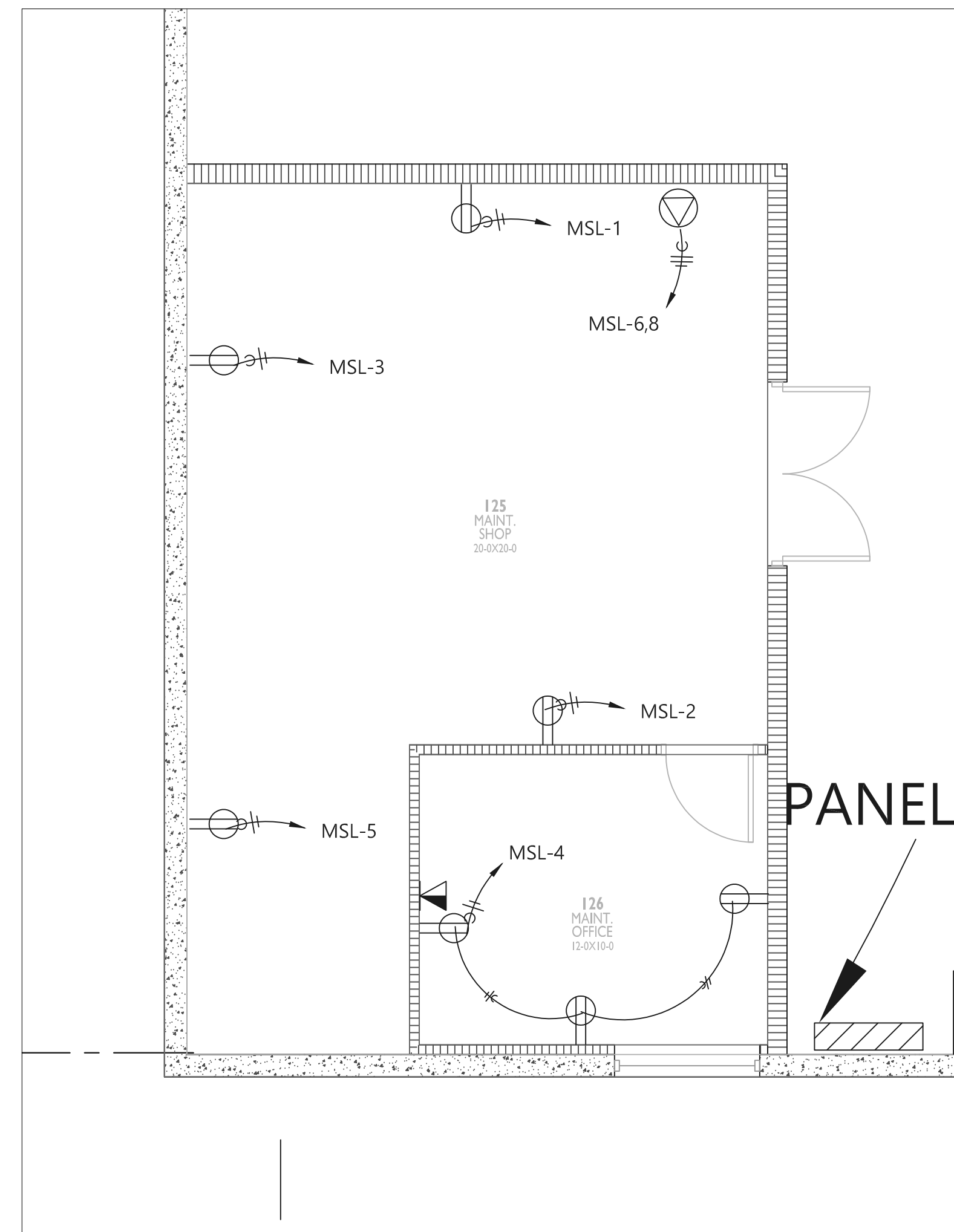
**1 Office Power Plan**  
scale: 1/8"=1'



**2 Drivers Office Power Plan**  
scale: 1/4"=1'



**3 Drivers Office Power Plan**  
scale: 1/4"=1'



**4 Maintenance Office Power Plan**  
scale: 1/4"=1'



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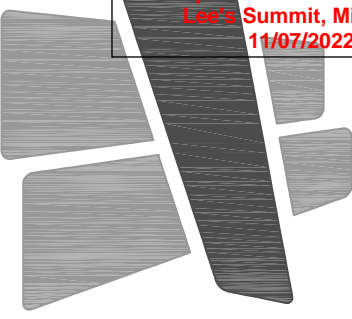


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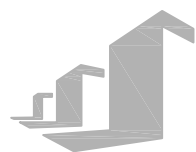






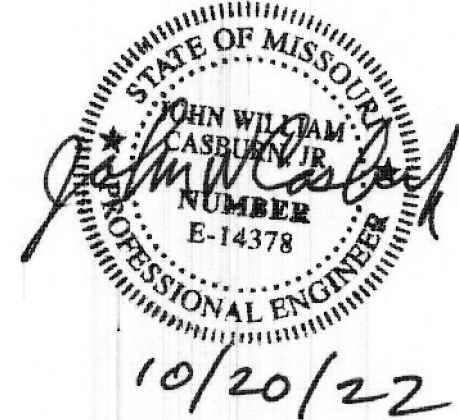
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BUILDING A LOT I

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NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086

ISSUE DATES

PERMIT SET	02.18.22
CITY COMMENTS	10.17.22



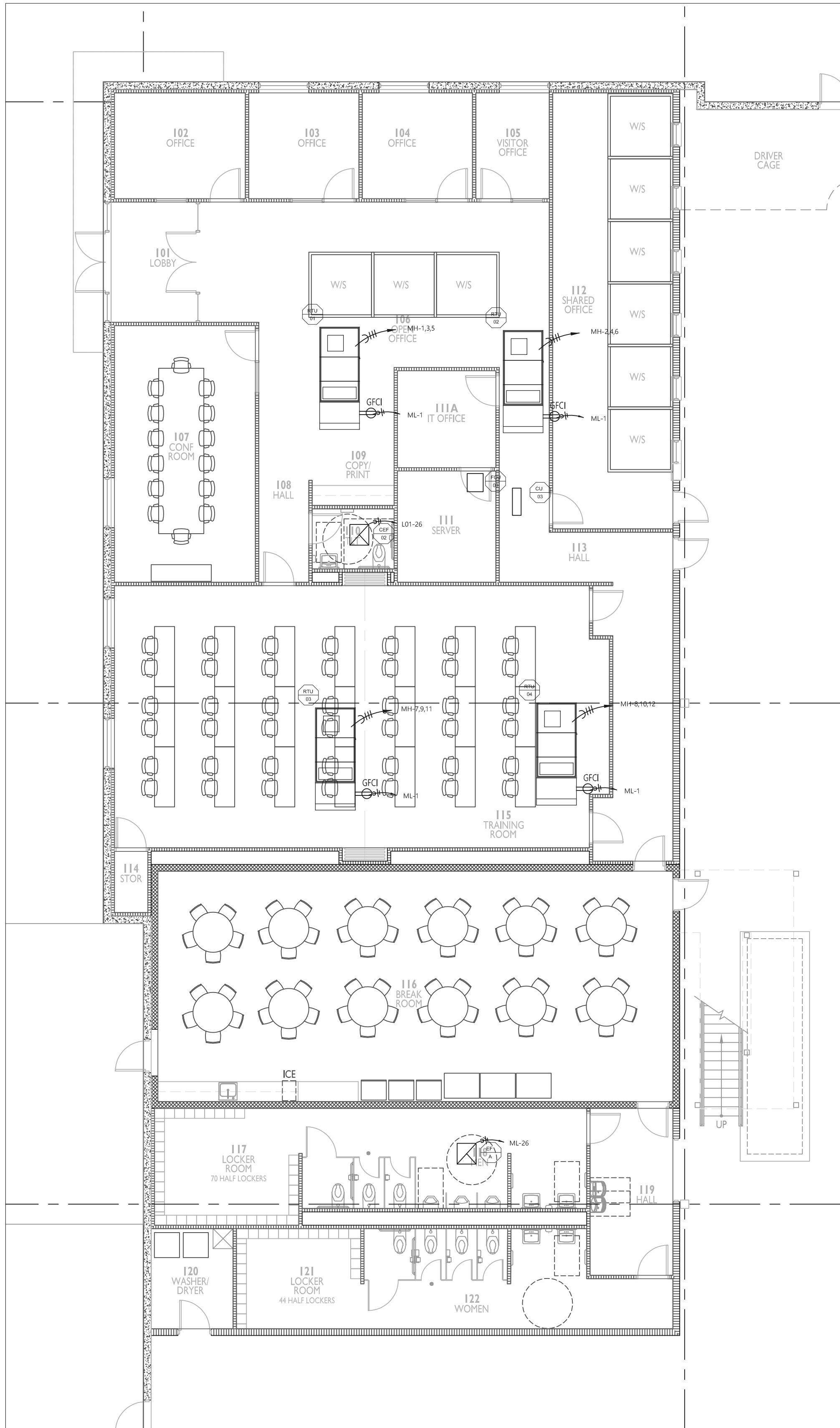
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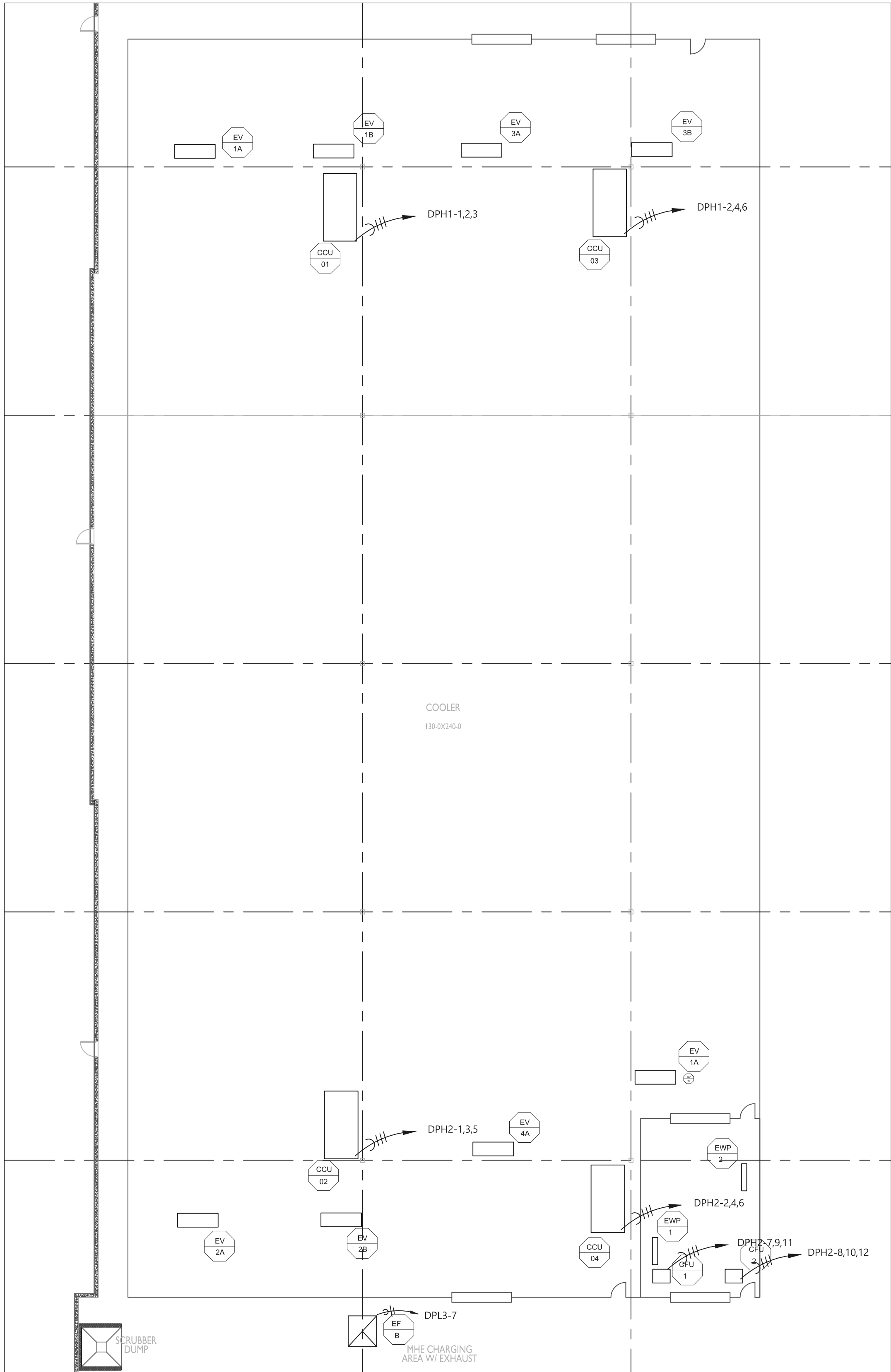
210300

OFFICE HVAC

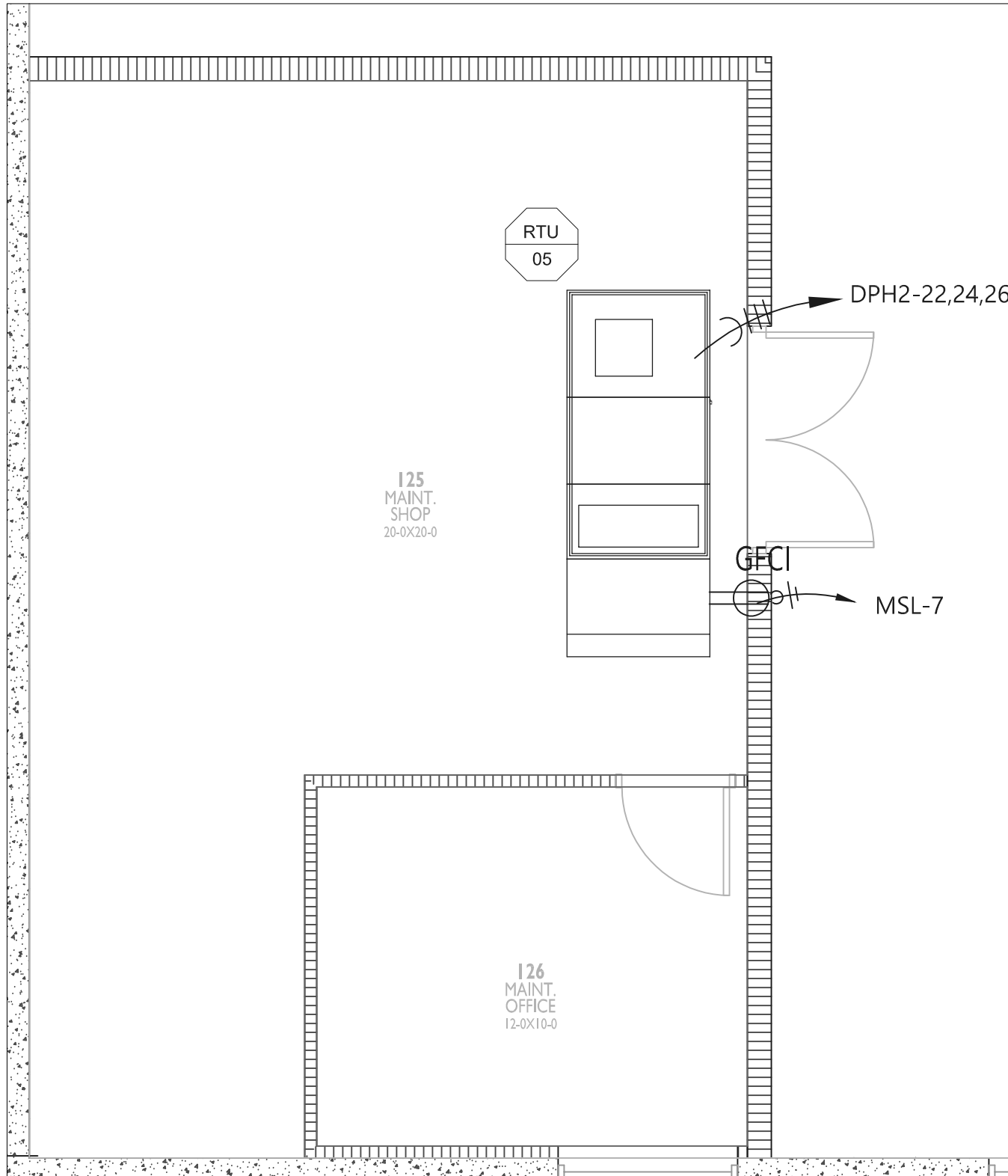
**E3.I**



**1 Office HVAC Power**  
scale: 1/8"=1'



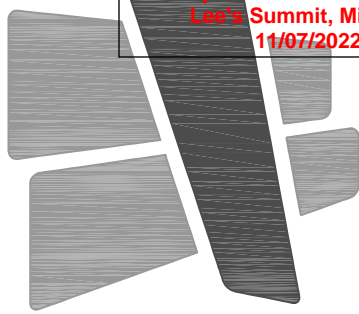
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scale: 1/8"=1'



**3 Maintenance Office HVAC Power**  
scale: 1/4"=1'

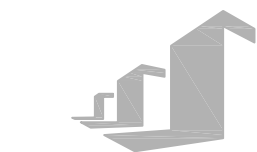






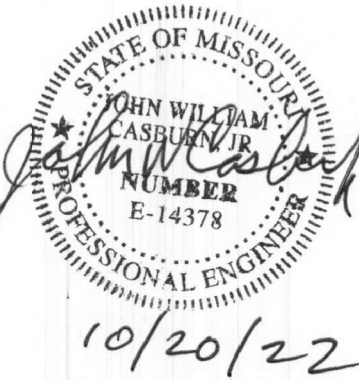
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PROJECT INFORMATION

LEE'S SUMMIT LOGISTICS  
BUILDING A LOT I

NW CORNER OF  
NE TUDOR RD & MAIN ST  
LEE'S SUMMIT, MO 64086

ISSUE DATES

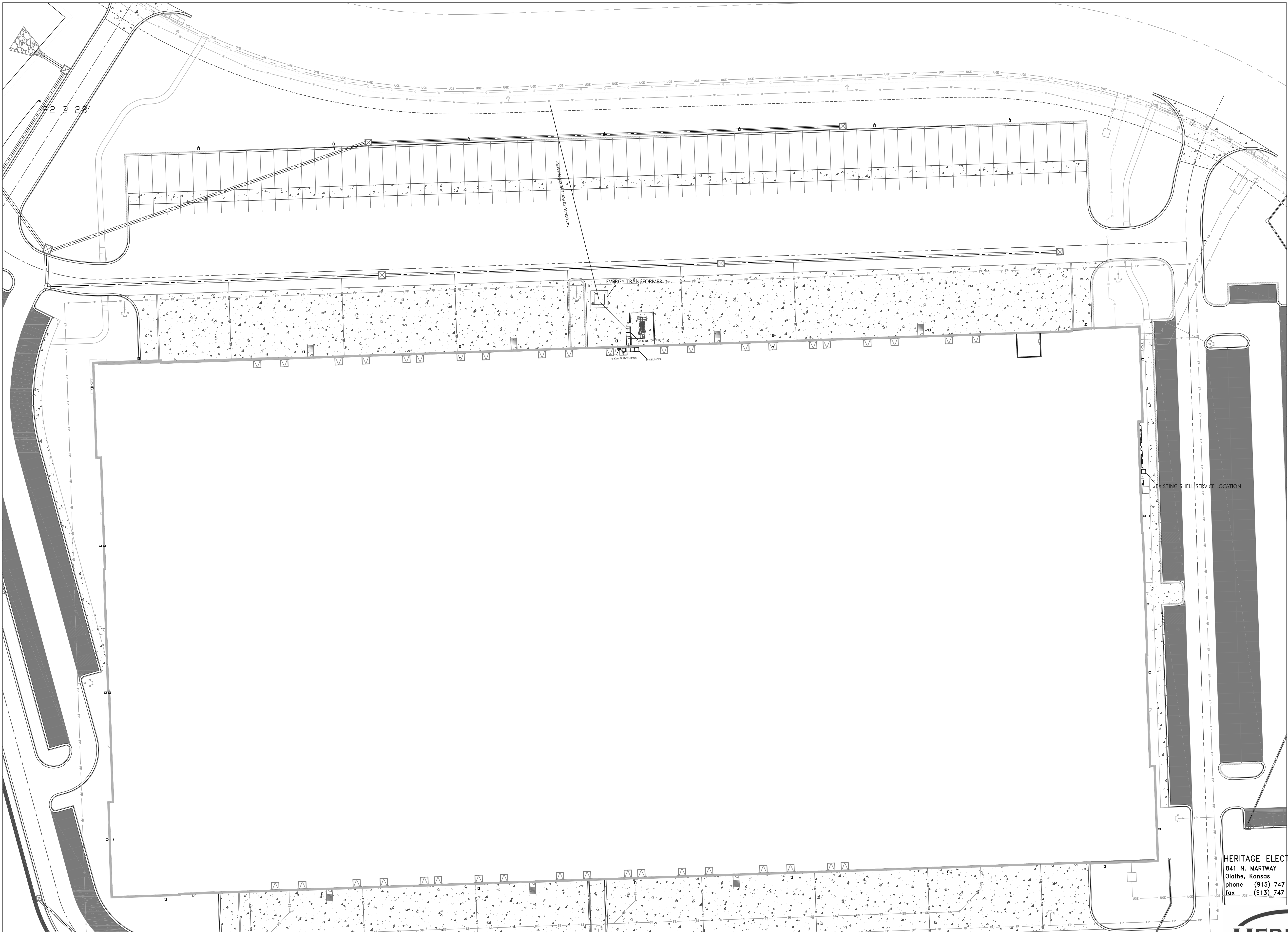
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CITY COMMENTS 10.17.22



HERITAGE ELECTRIC, L.L.C.  
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1 Site  
scale: N.T.S

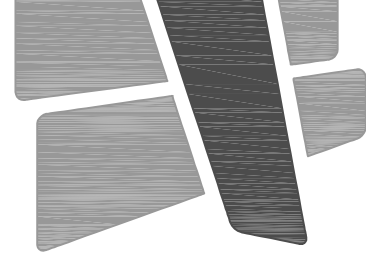


210300

Site

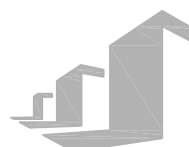
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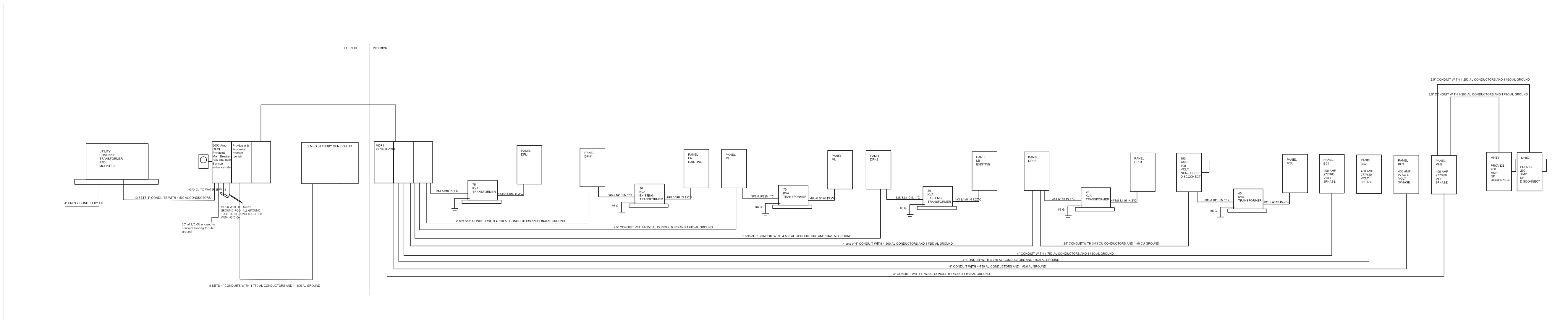
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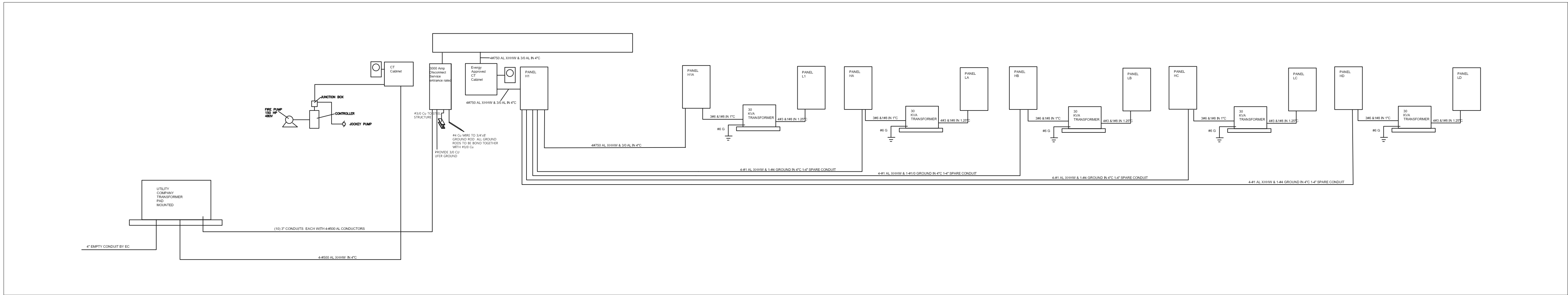
210300

Riser

E5.0



1 Riser  
scale: N.T.S.



1 Existing Shell Riser Diagram  
scale: N.T.S.



LIGHT FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NO.	LAMPS	MOUNTING	VOLTS	REMARKS
A	Columbia Lighting	CBT24-LS40	LED	CEILING	277	OR EQUAL
A1	Columbia Lighting	CBT22-LS40	LED	CEILING	277	OR EQUAL
B	Columbia Lighting	PEL2-40MV-EDU	LED	CEILING	277	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR
BE	Columbia Lighting	PEL2-40MV-EDU	LED	CEILING	277	SAME AS TYPE B WITH EMERGENCY BALLAST
C	GE Lightnng	ABC1X30473Cxxx	LED	CEILING	277	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR
CE	GE Lightnng	ABC1X30473Cxxx	LED	CEILING	277	SAME AS TYPE C WITH EMERGENCY BALLAST
D	GE Lightnng	ABC1X30475Cxxx	LED	CEILING	277	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR
E	GE Lighting	EWS3-4-E3-D1-40-3-DKBZ	LED	WALL	277	OR EQUAL
DE	GE Lightnng	ABC1X30475Cxxx	LED	CEILING	277	SAME AS TYPE D WITH EMERGENCY BALLAST
X1	Compass	CCR	LED	WALL	277	OR EQUAL
RH	Compass	CUWZ-PC	LED	WALL	277	OR EQUAL
EM	Compass	CU2	LED	WALL	277	OR EQUAL
XE	Compass	CCR	LED	WALL	277	EXISTING EXIT/EM LIGHT INSTALLED IN SHELL
ERH	Compass	CUWZ-PC	LED	WALL	277	EXISTING REMOTE HEAD LIGHT INSTALLED IN SHELL

Scope:

Provide electrical for new TI in existing warehouse

All Electrical work shall be as per NEC 2017.

All work shall be done by qualified electricians.

All branch wiring shall be copper.

Devices shall be 20a commercial grade and color shall be by architect.

#### SPECIFICATIONS

- CONDUIT ABOVE GRADE SHALL BE EMT UNLESS OTHERWISE NOTED
- CONDUIT BELOW GRADE SHALL BE RIGID PVC UNLESS OTHERWISE NOTED
- CONNECTIONS SHALL BE MADE USING SET SCREW CONNECTORS
- MC CABLE IS ACCTEABLE FOR FINAL CONNECTIONS TO LIGHT FIXTURES PROVIDE WITH 10' WHIP ON ALL HIGHWAYS
- BRANCH WIRING SHALL BE #12 THIN COPPER UNLESS OTHERWISE NOTED
- WIRING SHALL BE AS PER CURRENT NEC 2005
- WIRING DEVICES SHALL BE OF COMMERCIAL GRADE RATED AT 20 AMP
- INSTALLATION SHALL ADHERE TO ADA STANDARDS
- ALUMINUM XHHW-#2 CABLE MAY BE USED FOR FEEDERS LARGER THEN #2 OTHERWISE COPPER
- REFER TO KCP&L STANDARDS MANUAL FOR 480 SERVICES
- ALL LIGHTING/EQUIPMENT IN WAREHOUSE SHALL BE MOUNTED TO PROVIDE A MIN OF 36" CLEAR HEIGHT

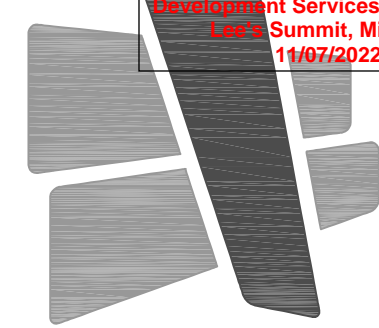
#### ELECTRICAL GENERAL NOTES

- WORK INCLUDED. FURNISH ALL LABOR, MATERIAL, SERVICES AND SKILLED SUPERVISION NECESSARY FOR THE CONSTRUCTION, ERECTION, INSTALLATION, CONNECTIONS, TESTING AND ADJUSTMENTS OF ALL CIRCUITS AND ELECTRICAL EQUIPMENT SPECIFIED HEREIN, OR NOTED ON THE DRAWINGS, AND ITS DELIVERY TO THE OWNER COMPLETE IN ALL RESPECTS READY FOR USE.
- CONTRACT DRAWINGS THE CONTRACT DRAWINGS ARE SHOWN IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK, INDICATING THE GENERAL ARRANGEMENT OF EQUIPMENT, CONDUIT AND OUTLETS. VERIFY SPACES FOR THE INSTALLATION OF THE MATERIALS BASED ON ACTUAL DIMENSIONS OF EQUIPMENT FURNISHED. IF A QUESTION EXISTS AS TO THE EXACT INTENDED LOCATION OF OUTLETS OR EQUIPMENT, OBTAIN INSTRUCTIONS FROM THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH WORK.
- MINIMUM SIZE OF CONDUIT SHALL BE 1/2" UNLESS NOTED OTHERWISE.
- ALL WIRING FOR LIGHTING, RECEPTACLE AND POWER CIRCUITS WHERE NOT SHOWN ON DRAWINGS SHALL BE WITH #12 CONDUCTORS, NUMBER AS REQUIRED IN CONDUIT SIZED PER N.E.C. PROVIDE EQUIPMENT GROUNDING CONDUCTOR FOR ALL BRANCH CIRCUITS AND FEEDERS. HOMERUNS TO PANEL SHALL BE IN INDIVIDUAL CONDUITS, UNLESS NOTED OTHERWISE, WITH CIRCUITS AS SHOWN.
- THE USE OF TYPE 'MC' AND TYPE 'AC' CABLE IS PERMITTED IN ALL AREAS PER NEC AND LOCAL CODE REQUIREMENTS.
- THE USE OF ALUMINUM CONDUCTORS WITH AMPACITY EQUIVALENT TO COPPER IS PERMITTED IN ALL AREAS PER NEC REQUIREMENTS.
- ALL JUNCTION BOXES, PULL BOXES, AND PANELBOARDS SHALL BE RIGIDLY ATTACHED TO STRUCTURE.
- COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACE AVAILABLE, AND WITHOUT INTERFERENCES.
- ALL CONDUIT, BOXES, ETC. SHALL BE CONCEALED OR MOUNTED FLUSH WITH CEILING OR WALL CONSTRUCTION. CONDUITS SHALL BE MOUNTED AS HIGH AS POSSIBLE. NO SURFACE MOUNTED CONDUIT, BOXES, ETC. WILL BE PERMITTED WITHOUT PERMISSION OF THE ENGINEER PRIOR TO INSTALLATION. ALL CONDUIT PENETRATIONS SHALL BE FIRE-CAULKED AS REQUIRED.





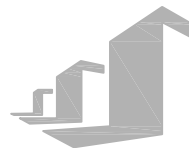




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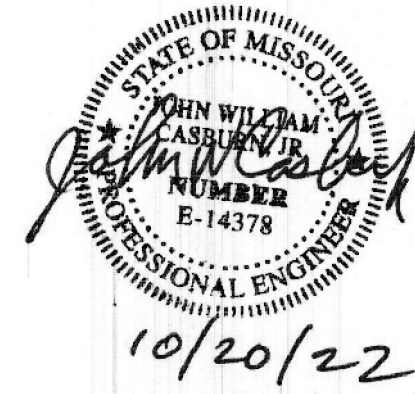
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210300

Panel Schedule

**E6.I**

PANEL: LA 100 MLO 120/ 208 V, 3PH, 4W.+GRND. EXISTING									
CCT	SERVICES	VA	DCP	WIRE	PHASE	WIRE	DCP	VA	SERVICES
1	RECEP	800	201	2#12,1#10S	A	2#12,1#10S	201	200	LIGHTS
3	POU-1	1248	152	2#12,1#10S	B	2#12,1#10S	201	200	EXIST RECEP
5		1248	201		C	2#12,1#10S	201		SFARE
7	DOCK RECEP	800	201	2#12,1#10S	A	2#12,1#10S	201		SFARE
9	DOCK RECEP	800	201	2#12,1#10S	B	2#12,1#10S	201		SFARE
11	DOCK RECEP	800	201	2#12,1#10S	C	2#12,1#10S	201		SFARE
13	SFARE	201	201	2#12,1#10S	A	2#12,1#10S	201		SFARE
15	SFARE		201	2#12,1#10S	B	2#12,1#10S	201		SFARE
17					C				
19					A				
21					B				
23					C				
25					A				
27					B				
29					C				
31					A				
33					B				
35					C				
37					A				
39					B				
41					C				

NOTES:		LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1 NEMA 1 ENCLOSURE		1 LIGHTING	200	1.25	200	PHASE A	1800
2 PROVIDE BOLT ON BREAKERS		2 RECEPTACLES	586	NEC	586	PHASE B	2246
3		3 KITCHEN	0	0.65	0	PHASE C	2246
		4 AIRVAC	200	1	200	LOWEST PHASE PLUS 10%	
		5 SNOW CONT	0	1	0	1800	+ 10%
		6 LARGEST MOTOR	0	0.25	0	REBALANCE LOADS	1800
		7 TOTAL VA	6266		6266		
		8 TOTAL AMPS	16.9		17.1		

PANEL: BC1 400 MLO 277/ 480 V, 3PH, 4W.+GRND. NEW PANEL									
CCT	SERVICES	VA	DCP	WIRE	PHASE	WIRE	DCP	VA	SERVICES
1	BATTERY CHARGER	4432	303	3#10,1#10S	A	3#10,1#10S	303	4432	BATTERY CHARGER
3	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER
5	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER
7	BATTERY CHARGER	4432	303	3#12,1#10S	A	3#12,1#10S	303	4432	BATTERY CHARGER
9	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER
11	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER
13	BATTERY CHARGER	4432	303	3#12,1#10S	A	3#12,1#10S	303	4432	BATTERY CHARGER
15	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER
17	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER
19	BATTERY CHARGER	4432	303	3#12,1#10S	A	3#12,1#10S	303	4432	BATTERY CHARGER
21	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER
23	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER
25	BATTERY CHARGER	4432			A				
27					B				
29					C				
31					A				
33					B				
35					C				
37					A				
39					B				
41					C				

NOTES:		LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1 NEMA 1 ENCLOSURE		1 LIGHTING	0	1.25	0	PHASE A	35456
2 PROVIDE BOLT ON BREAKERS		2 RECEPTACLES	0	NEC	0	PHASE B	35456
3		3 KITCHEN	0	0.65	0	PHASE C	35456
		4 AIRVAC	0	1	0	LOWEST PHASE PLUS 10%	
		5 SNOW CONT	106368	1	106368	35456	+ 10%
		6 LARGEST MOTOR	0	0.25	0	PHASES ARE BALANCED	35001.6
		7 TOTAL VA	106368		106368		
		8 TOTAL AMPS	127.9		127.9		

PANEL: BC2 400 MLO 277/ 480 V, 3PH, 4W.+GRND. NEW PANEL									
CCT	SERVICES	VA	DCP	WIRE	PHASE	WIRE	DCP	VA	SERVICES
1	BATTERY CHARGER	4432	303	3#10,1#10S	A	3#10,1#10S	303	4432	BATTERY CHARGER
3	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER
5	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER
7	BATTERY CHARGER	4432	303	3#12,1#10S	A	3#12,1#10S	303	4432	BATTERY CHARGER
9	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER
11	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER
13	BATTERY CHARGER	4432	303	3#12,1#10S	A	3#12,1#10S	303	4432	BATTERY CHARGER
15	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER
17	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER
19	BATTERY CHARGER	4432	303	3#12,1#10S	A	3#12,1#10S	303	4432	BATTERY CHARGER
21	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER
23	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER
25	BATTERY CHARGER	4432			A				
27					B				
29					C				
31					A				
33					B				
35					C				
37					A				
39					B				
41					C				

NOTES:		LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1 NEMA 1 ENCLOSURE		1 LIGHTING	0	1.25	0	PHASE A	35456
2 PROVIDE BOLT ON BREAKERS		2 RECEPTACLES	0	NEC	0	PHASE B	35456
3		3 KITCHEN	0	0.65	0	PHASE C	35456
		4 AIRVAC	0	1	0	LOWEST PHASE PLUS 10%	
		5 SNOW CONT	106368	1	106368	35456	+ 10%
		6 LARGEST MOTOR	0	0.25	0	PHASES ARE BALANCED	35001.6
		7 TOTAL VA	106368		106368		
		8 TOTAL AMPS	127.9		127.9		

PANEL: BC3 400 MLO 277/ 480 V, 3PH, 4W.+GRND. NEW PANEL									
CCT	SERVICES	VA	DCP	WIRE	PHASE	WIRE	DCP	VA	SERVICES
1	BATTERY CHARGER	4432	303	3#10,1#10S	A	3#10,1#10S	303	4432	BATTERY CHARGER
3	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER
5	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER
7	BATTERY CHARGER	4432	303	3#12,1#10S	A	3#12,1#10S	303	4432	BATTERY CHARGER
9	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER
11	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER
13	BATTERY CHARGER	4432	303	3#12,1#10S	A	3#12,1#10S	303	4432	BATTERY CHARGER
15	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER
17	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER
19	BATTERY CHARGER	4432	303	3#12,1#10S	A	3#12,1#10S	303	4432	BATTERY CHARGER
21	BATTERY CHARGER	4432			B			4432	BATTERY CHARGER
23	BATTERY CHARGER	4432			C			4432	BATTERY CHARGER
25					A				
27					B				
29					C				
31					A				
33					B				
35					C				
37					A				
39					B				
41					C				

NOTES:		LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1 NEMA 1 ENCLOSURE		1 LIGHTING	0	1.25	0	PHASE A	35456
2 PROVIDE BOLT ON BREAKERS		2 RECEPTACLES	0	NEC	0	PHASE B	35456
3		3 KITCHEN	0	0.65	0	PHASE C	35456
		4 AIRVAC	0	1	0	LOWEST PHASE PLUS 10%	
		5 SNOW CONT	106368	1	106368	35456	+ 10%
		6 LARGEST MOTOR	0	0.25	0	PHASES ARE BALANCED	35001.6
		7 TOTAL VA	106368		106368		
		8 TOTAL AMPS	127.9		127.9		

PANEL: MH 200A MLO 277/ 480 V, 3PH, 4W.+GRND. NEW PANEL									
CCT	SERVICES	VA	DCP	WIRE	PHASE	WIRE	DCP	VA	SERVICES
1	RJU 1	4155	203	3#10,1#10S	A	3#10,1#10S	203	4155	RJU 2
3	RJU 1	4155			B			4155	RJU 2
5	RJU 1	4155			C			4155	RJU 2
7	RJU 3	4155	203	3#10,1#10S	A	3#10,1#10S	203	4155	RJU 4
9	RJU 3	4155			B			4155	RJU 4
11	RJU 3	4155			C			4155	RJU 4
13	OFFICE LIGHTS	1980	201	2#12,1#10S	A	2#12,1#10S	201	1980	OFFICE LIGHTS
15	OFFICE LIGHTS	1980	201	2#12,1#10S	B	2#12,1#10S	201	1980	OFFICE LIGHTS
17			201	2#12,1#10S	C	2#12,1#10S	201		
19			201	2#12,1#10S	A	2#12,1#10S	201		
21			201	2#12,1#10S	B	2#12,1#10S	201		
23			201	2#12,1#10S	C	2#12,1#10S	201		
25			201	2#12,1#10S	A				
27					B				
29					C				
31					A				
33					B				
35					C				
37	TRANSFORMER	1003	3#1,1#8S						
39	TRANSFORMER				B				
41	TRANSFORMER				C				

NOTES:		LOAD SUMMARY	CONN	NEC	DEM	LOAD BALANCE PER PHASE	
1 NEMA 1 ENCLOSURE		1 LIGHTING	250	1.25	250	PHASE A	16620
2 PROVIDE BOLT ON BREAKERS		2 RECEPTACLES	0	NEC	0	PHASE B	16620
3		3 KITCHEN	0	0.65	0	PHASE C	16620
		4 AIRVAC	48860	1	48860	LOWEST PHASE PLUS 10%	
		5 SNOW CONT	0	1	0	16620	+ 10%
		6 LARGEST MOTOR	0	0.25	0	REBALANCE LOADS	16252
		7 TOTAL VA	50420		50420		
		8 TOTAL AMPS	64.3		64.3		

PANEL: ML					200A		MLO		120/ 208 V, 3PH, 4W.+GRND.		NEW PANEL				
CCT	SERVICES	VA	DCP	WIRE	PHASE	WIRE	DCP	VA	SERVICES				CCT		
1	SPOT RECEP	400	201	2#12,1#10S	A	2#12,1#10S	201	600	RECEPS				2		
3	RECEPS	1400	201	2#12,1#10S	B	2#12,1#10S	201	600	RECEPS				4		
5	RECEPS	1600	201	2#12,1#10S	C	2#12,1#10S	201	1000	RECEPS				6		
7	PRINTER	1200	201	2#12,1#10S	A	2#12,1#10S	201	600	RECEPS				8		
9	PRINTER	1200	201	2#12,1#10S	B	2#12,1#10S	201	1000	RECEPS				10		
11	RECEPS	800	201	2#12,1#10S	C	2#12,1#10S	201	1000	RECEPS				12		
13	RECEPS	1000	201	2#12,1#10S	A	2#12,1#10S	201	400	RECEPS				14		
15	RECEPS	1000	201	2#12,1#10S	B	2#12,1#10S	201	600	RECEPS				16		
17	RECEPS	600	201	2#12,1#10S	C	2#12,1#10S	201	600	RECEPS				18		
19	RECEPS	600	201	2#12,1#10S	A	2#12,1#10S	201	400	RECEPS				20		
21	RECEPS	800	201	2#12,1#10S	B	2#12,1#10S	201	600	RECEPS				22		
23	RECEPS	400	201	2#12,1#10S	C	2#12,1#10S	201	1000	REFRIGERATOR				24		
25	REFRIGERATOR	1000	201	2#12,1#10S	B	2#12,1#10S	201	1000	BREAK ROOM RECEPTION				26		
27	REFRIGERATOR	1000	201	2#12,1#10S	A	2#12,1#10S	201	1000	BREAK ROOM RECEPTION				28		
29	BREAK ROOM RECEPTION	1000	201	2#12,1#10S	C	2#12,1#10S	201	1000	BREAK ROOM RECEPTION				30		
31	BREAK ROOM RECEPTION	1000	201	2#12,1#10S	A	2#12,1#10S	201	1000	BREAK ROOM RECEPTION				32		
33	BREAK ROOM RECEPTION	1000	201	2#12,1#10S	B	2#12,1#10S	201	1000	DRAINING FOUR IN				34		
35	BREAK ROOM RECEPTION	1000	201	2#12,1#10S	C	2#12,1#10S	201	400	BATHROOM GFI				36		
37	DRYER RECEPTION	1500	302	3#10,1#10S	A	2#12,1#10S	201	600	WASHER				38		
39															
41	SPARE		201		C		201		SPARE				42		
43	SPARE		201		A		201		SPARE				44		
45	SPARE		201		B		201		SPARE				46		
47	SPARE		201		C		201		SPARE				48		
49					A								50		
51					B								52		
53					C								54		
55					A								56		
57					B								58		
59					C								60		
61													62		
63													64		
65						C							66		
NOTES:															
1 NEMA 1 ENCLOSURE				LOAD SUMMARY		CONN	0	1.25	DEM	LOAD BALANCE PER PHASE					
2 PROVIDE BOLT ON BREAKERS				LIGHTING					PHASE A				11300		
3				2 RECEPTACLES		36000	0	NECS	22300		PHASE B		12000		
				SWITCHING		0	0.65		0		PHASE C		10400		
				LAVATORY		0	1		0		LOWEST PHASE PLUS 10%				
				ENCL-CONT		0	1		0		3600 (+ 10%)		11400		
				LARGEST MOTOR		0	0.25		0		REBALANCE LOADS				
				TOTAL VA		36000			22300						
				TOTAL AMP		60A			41A						