

Case 1

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CODE DATA

APPLICABLE CODES

APPLICABLE CODES: ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS AND DRAWINGS, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNING BODIES INVOLVED. ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE PROCURED AND PAID FOR BY THE CONTRACTOR INVOLVED. APPLICABLE CODES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

CODE DATA :	EDITION	YEAR
BUILDING + STRUCTURAL:	INTERNATIONAL BUILDING CODE	2018
PLUMBING:	INTERNATIONAL PLUMBING CODE	2018
MECHANICAL:	INTERNATIONAL MECHANICAL CODE	2018
FUEL:	INTERNATIONAL FUEL GAS CODE	2018
ELECTRICAL:	NATIONAL ELECTRICAL CODE	2017
FIRE/LIFE SAFETY:	INTERNATIONAL FIRE CODE	2018
ACCESSIBILITY CODE:	ICC ANSI A117.1	2009

BUILDING DATA :	
OCCUPANCY GROUP:	M (MERCANTILE)
CONSTRUCTION TYPE:	(IIB)
SPRINKLED:	YES

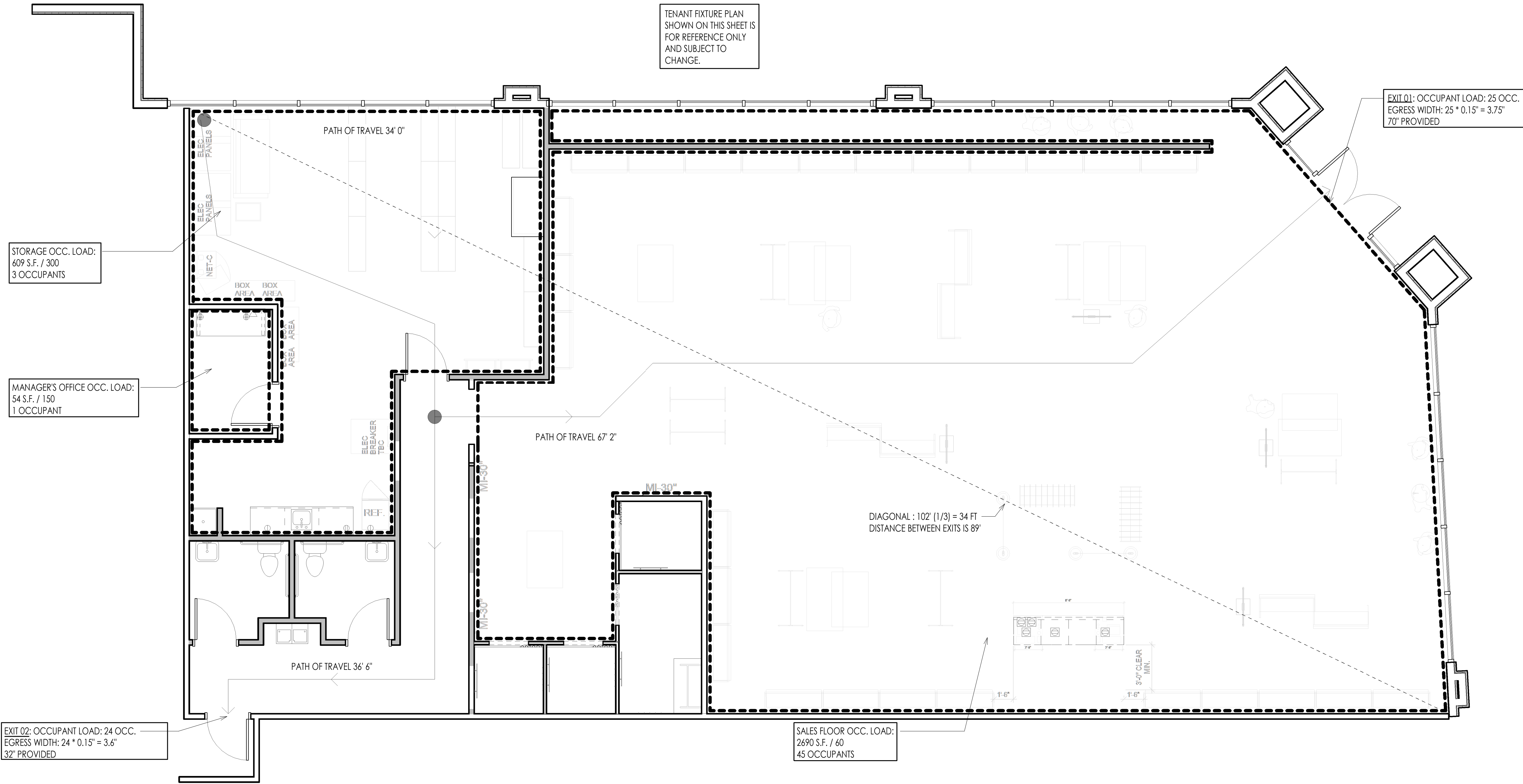
OCCUPANCY AND EXITING DATA :

OCCUPANCY LOAD					
Number	Name	Area	OCCUPANCY CLASSIFICATION	AREA PER OCCUPANT	Occupant Load
101	SALES	2690 SF	MERCANTILE: BASEMENT AND GRADE FLOOR AREAS	60 SF	45
102	STORAGE	609 SF	MERCANTILE: STORAGE, STOCK, SHIPPING AREAS	300 SF	3
103	MANAGER'S OFFICE	54 SF	BUSINESS AREAS	150 SF	1
104	CORRIDOR	206 SF	(none)		
Occupant Load					49

	REQUIRED	PROVIDED
NUMBER OF EXITS	2	2
EXIT WIDTH	7.4"	72"
MAX PATH OF TRAVEL		68'

PLUMBING DATA:

	REQUIRED	PROVIDED
WATER CLOSETS		
TOTAL OCCUPANT: 49 / 2 = 25	1	1
MALE = 1/500		
FEMALE = 1/500		
LAVATORIES (MEN AND WOMEN)	1	2 (EACH)
MOP/SERVICE SINKS	1	1
DRINKING FOUNTAINS	1	1
* SEPARATE FACILITIES NOT REQUIRED PER IBC 2902.2 BUT PROVIDED		



LULULEMON PROVIDED AND APPROVED SPECIFICATIONS

RFID SHIELDING REQUIREMENTS:
WHITE RFID SINGLE REFLECTIVE SHIELDING TO BE INSTALLED OVER EXISTING GYP. BD. ON ALL STOCKROOM PARTITIONS CONTINUOUS WITH THE SALES FLOOR AND ADJACENT TENANTS.
SEE PRODUCT SPECIFICATIONS FOR INSTALLATION DETAILS AND REQUIREMENTS.
WHITE SINGLE REFLECTIVE SHIELDING TO BE INSTALLED FULL HEIGHT AND WIDTH OF ENTIRE PARTITION OR TO UNDERSIDE OF DECK
MIN. HEIGHT OF RFID SHIELDING TO 12'-0"
ENSURE A 2" MINIMUM OVERLAP ON ALL SEAMS TO ENSURE THERE IS NO BLEED.
SEE PRODUCT SPECIFICATIONS FOR MORE INSTALLATION DETAILS AND REQUIREMENTS.
RFID SINGLE REFLECTIVE SHIELDING TO BE INSTALLED ON THE STOCKROOM SIDE OF THE EXISTING WALL.
ALL PENETRATIONS INCLUDING BUT NOT LIMITED TO OUTLETS, CONDUIT, PIPING AND DUCTWORK SHALL BE SEALED WITH SPECIFYING RFID SHIELDING TAPE.
SEE PRODUCT SPECIFICATIONS FOR MORE INSTALLATION DETAILS AND REQUIREMENTS.

RFID SINGLES REFLECTIVE SHIELDING (SIDE FACING BACKROOM IS REQUIRED TO BE WHITE):
OPTIONS BELOW OR SIMILAR:
PRODUCT: SINGLE BUBBLE/WHITE FOIL REFLECTIVE INSULATION

- OPTION 1:
[HTTPS://WWW.REFLECTIXINC.COM/PRODUCTS/SINGLE-REFLECTIVE-INSULATION/](https://www.reflectixinc.com/products/single-reflective-insulation/)
- OPTION 2:
[HTTP://WWW.RADIANTBARRIER.COM/PRODUCTS/TEMPSHIELD-SINGLE-BUBBLE-WHITE-FOIL/](http://www.radiantbarrier.com/products/tempshield-single-bubble-white-foil/)
- OPTION 3:
[HTTPS://WWW.AVERYDENNISON.COM/CONTENT/DAM/AVERYDENNISON/PT/NA/EN/LITERATURE/PRODUCT%20INFORMATION/PT%200815/FT-0815-TDS-ADPT.PDF](https://www.averydennison.com/content/dam/averydennison/pt/na/en/literature/product%20information/pt%200815/ft-0815-TDS-ADPT.PDF)
 - PRODUCT: SHIELD SENSE FT 0815/ALUMINUM FOIL ROLL & TAPE
 - ROLL: 27" WIDE X 187 FT ROLL FOR WALL SURFACE APPLICATION.
 - TAPE: 4" WIDE ROLL FOR SEALING PENETRATIONS AT OUTLETS, CONDUIT, PIPING AND DUCTWORK.

FLOORING SPECIFICATIONS:
CONCRETE SPECIFICATIONS

- OPTION 1
- GRIND AND POLISH EXISTING CONCRETE FLOORING
- COLOUR: SITE DEPENDANT
- POLISH: LEVEL 1
- AGGREGATE: VARIES
- APPLICATION: SALES FLOOR RETROPLATE TO REPOLISH EXISTING CONCRETE FLOORS – OR GC TO DO SIMILAR WITHOUT USING THE CERTIFIED "RETROPLATE" INSTALLER AND PRODUCT OR
- FOR CONCRETE FLOORS THAT ARE NOT IN A CONDITION THAT THEY CAN BE PATCH AND REPOLISHED WHICH IS OUR ARDEXTOPPING.

BASEBOARD SPECIFICATIONS:

- INSTALL WHITE VINYL BASEBOARDS (4 1/2" X 3/8" JOHNSONITE MANDALAY 50 WHITE OR SIMILAR) THROUGHOUT SALESFLOOR.
- INSTALL BLACK VINYL BASEBOARDS (4 1/2" X 3/8" JOHNSONITE MANDALAY 40 BLACK OR SIMILAR) THROUGHOUT BACK OF HOUSE SPACES.

WALL FINISH SPECIFICATIONS:

- FOH/SALES FLOOR WALLS: BENJAMIN MOORE REGAL SELECT HORIZON OC-53; FINISH: EGGSHELL (549)
- FOH FITTING ROOM WALLS: BENJAMIN MOORE ULTRA SPEC SCUFF-X HORIZON OC-53; FINISH: MATTE (484)
- BOH/RESTROOM WALLS: BENJAMIN MOORE ULTRA SPEC SCUFF-X STONINGTON GRAY; FINISH: SATIN (486)
- DOOR FRAMES AND DOORS: BENJAMIN MOORE ULTRA SPEC SCUFF-X KENDALL CHARCOAL HC-166; FINISH: SATIN (486)
- WHITE SPEC (CEILINGS AND OTHER ELEMENTS REQUIRED TO BE WHITE); BENJAMIN MOORE WATERBOURNE CEILING PAINT CHANTILLY LACE OC-65; FINISH: ULTRA FLAT (508)

CEILING PAINT SPECIFICATIONS:

- OPEN CEILING (14'-0" TO 16'-0"): BENJAMIN MOORE WATERBOURNE CEILING PAINT SECRET AF-710; FINISH: ULTRA FLAT (508)
- TO BE USED WHEN DECK IS BETWEEN 14'-0" TO 16'-0" AFF- TBC WITH LULULEMON PRIOR TO IMPLEMENTATION
- APPLICATION: FOH/SALESFLOOR CEILING SURFACE, HVAC, EXPOSED CEILING ITEMS, WALLS ABOVE 12'-0" PAINT LINE
- WHEN OPEN LID CEILING CONDITIONS OCCUR. PAINT LINE TO RETURN DOWN TO 12'-0" AFF.
- OPEN CEILING (16'-0" +): BENJAMIN MOORE WATERBOURNE CEILING PAINT KENDALL CHARCOAL HC-166; FINISH: ULTRA FLAT (508)
- TO BE USED WHEN DECK IS OVER 16'-0" AFF- TBC WITH LULULEMON PRIOR TO IMPLEMENTATION
- APPLICATION: FOH/SALESFLOOR CEILING SURFACE, HVAC, EXPOSED CEILING ITEMS, WALLS ABOVE 12'-0" PAINT LINE WHEN OPEN LID CEILING CONDITIONS OCCUR. PAINT LINE TO RETURN DOWN TO 12'-0" AFF.
- GWB PAD CEILING/HARD LID CEILING OR ACT CEILING: BENJAMIN MOORE CHANTILLY LACE OC-65; FINISH: ULTRA FLAT (508)
- TO BE USED FOR GWB CEILING AND PERIMETER SOFFITS - TBC WITH LULULEMON PRIOR TO IMPLEMENTATION
- APPLICATION: FOH/SALESFLOOR CEILING WHEN GWB PAD AND HARD LID CEILING IS PRESENTED OR ACT IS PROVIDED.

RESTROOM FIXTURE AND ACCESSORY SPECIFICATIONS:
ALL EXISTING RESTROOM FIXTURES TO REMAIN.

BOH KITCHENETTE SPECIFICATIONS:
CABINET:

- FRAME AND DOORS TO BE MADE OF WHITE P-LAM PANELS. CABINET TO HAVE A 4" H TOE KICK WITH A BASE ATTACHED TO THE TOW KICK PANEL.
- CABINET TO BE ADA COMPLIANT WITH THE TOP OF THE COUNTERTOP AT 34"H MAX. SEE DETAIL/ELEVATION FOR REFERENCE.

HARDWARE:

- LIBERTY 1 1/2" ROUND SOLID KNOBS
- FINISH: SATIN NICKEL OR EQUIVALENT.

COUNTERTOPS:

- SUPPLIER/SPEC: IKEA
- STYLE: SAJAN
- COLOUR: WHITE
- SIZE: 25 5/8" X 98"

FITTING ROOM FIXTURE SPECIFICATIONS:

- HANGBAR: TWO (2) X 30"L HANGBARS IN BLACKENED STAINLESS STEEL TO BE INSTALLED IN EACH FITTING ROOM OR EQUIVALENT [ALL EQUIVALENTS TO BE APPROVED BY LLL CONSTRUCTION & DESIGN TEAM]

• HOOKS: FIVE (5) HOOKS TO BE PROVIDED FOR EACH FITTING ROOM. FINISH TO BE BLACKENED STAINLESS STEEL OR EQUIVALENT [ALL EQUIVALENTS TO BE APPROVED BY LLL CONSTRUCTION & DESIGN TEAM]

• ADA BENCH: [HTTPS://PRIVEEDESIGNS.COM/COLLECTIONS/DRESSING-ROOM-ACCESSORIES/PRODUCTS/ADA-BENCH-42X18X24?VARIANT=32069850726533](https://priveedesigns.com/collections/dressing-room-accessories/products/ada-bench-42x18x24?variant=32069850726533) OR EQUIVALENT [ALL EQUIVALENTS TO BE APPROVED BY LLL CONSTRUCTION & DESIGN TEAM]

• CURTAIN ROD: [HTTPS://WWW.AMAZON.COM/VILON-DRAPERY-WINDOW-CURTAIN-ROD/DP/B06WWP9XXB](https://www.amazon.com/vilon-drapery-window-curtain-rod/dp/B06WWP9XXB) OR EQUIVALENT [ALL EQUIVALENTS TO BE APPROVED BY LLL CONSTRUCTION & DESIGN TEAM]

• CURTAIN/DRAPE: TO BE BLACKOUT CHARCOAL CURTAIN A MINIMUM OF 60"W PANELS, MOUNTED TO BE 4" CLEAR FROM FLOOR.

LIGHTING SPECIFICATIONS:

- WARM TEMPERATURE: 3000K
- BEAM SPREAD: 25-40
- LUMENS: 1600
- LIGHT SPACING: 1 LIGHT EVERY 18" TYP. U.N.O. ON PLANS
- TRACK DISTANCE FROM THE WALLS: 4'-0" AWAY FROM THE WALLS AROUND THE PERIMETERS
- DISTANCE BETWEEN TRACKS: 6'-0" TO 8'-0" MAX U.N.O.

TRACK LIGHTING:

- CON TECH LT-4-P, LT-6-P, LT8-P, LT-12-P, 1 CIRCUIT SUSPENDED WHITE/BLACK TRACK (COLOUR TO BE CONFIRMED WITH LLL DESIGNER)
- INSTALL DIRECTIONS: TRACK TO BE HUNG FROM STRUCTURE @12' AFF
- CON TECH GIMBLE, CTL838/2-P WHITE/BLACK TRACK HEAD 250W PAR38 (COLOUR TO BE CONFIRMED WITH LLL DESIGNER)

WALL WASHER SPECIFICATIONS:

- LUMENTURE 1WW160-30H-1600-B-J TRACK HEAD – BLACK WALL WASHER 17 WATT LED
- TRACK MOUNTED
- DIRECTED TOWARDS WALL

POT LIGHT:

- RECESSED
- CON TECH RL38L-ICSA RF6L130KCE-PL LED DOWN LIGHT – WHITE TRIM 15W LED CEILING HEIGHT
- TO BE USED AS REQUIRED IN FOH/SALESFLOOR
- STAFF ROOM RECESSED IN GWB

FITTING ROOM LIGHTING:

- SURFACE MOUNTED @7' AFF ON FITROOM WALLS WITH ALUM CHANNEL (ALP-130-98-FR).

BOH/BACKROOM LIGHTING:

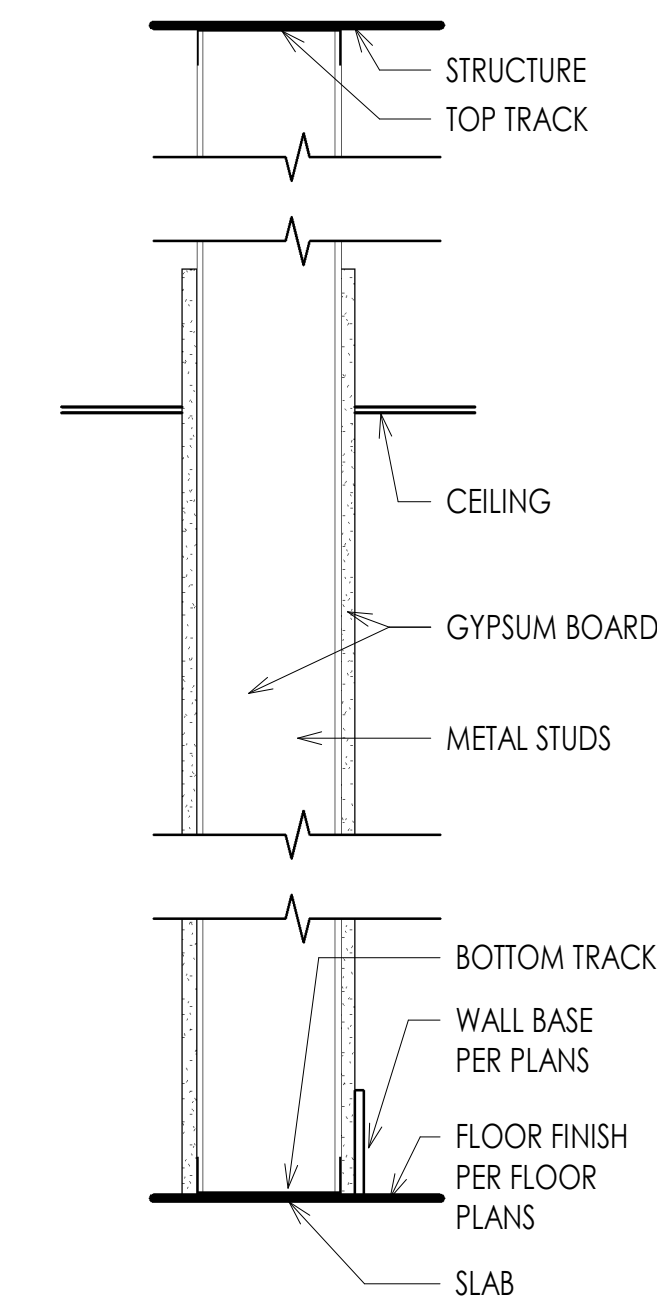
- SURFACE MOUNTED OR SUSPENDED
- L8 DAY-BRITE CH FSS8-80L-830-UNV-DIM 62 WATT LED BACK OF HOUSE LED STRIP LIGHT, SUSPENDED U.N.O.

BATHROOM LIGHTING: (EXISTING TO REMAIN)

- RECESSED @ CEILING HEIGHT BROAN AE80L DELUXE FAN LIGHT COMBO 11 WATT LED
- FAN LIGHT COMBO TO BE CENTERED IN THE ROOM; FAN: 27 WATT/80CFM

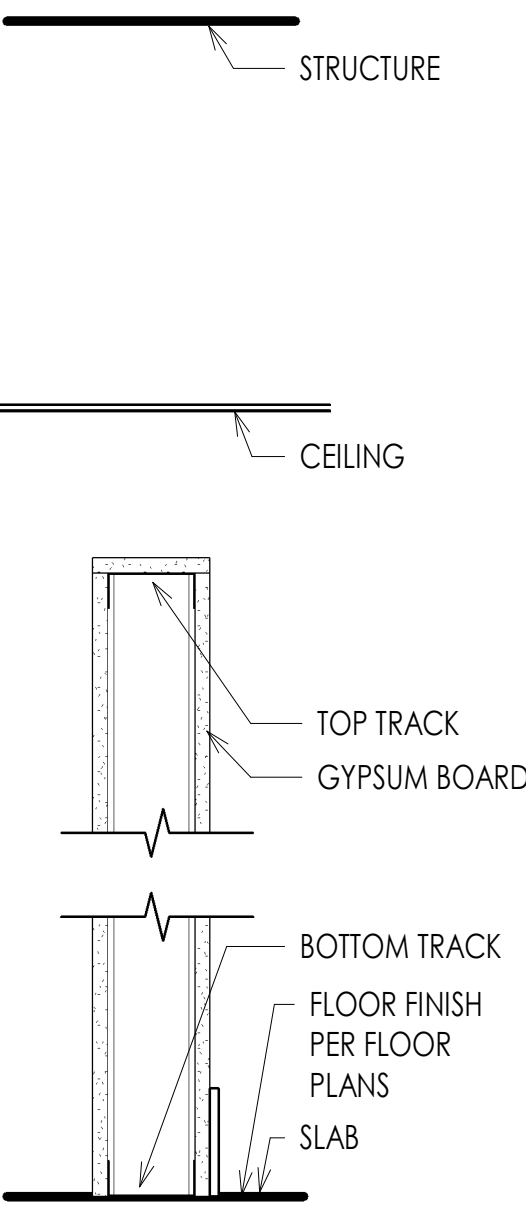
FITTING ROOMS
3 5/8" X 20 GAUGE METAL STUDS ROTATED SIDEWAYS (2 STUDS SIDE BY SIDE, FLIPPED FOR ATTACHMENT OF MDF) AT 16" OC (TYP) WITH 3/4" MDF ON BOTH SIDES, MDF AND WHITE 1" CORNER MOULDING ON TOP OF WALL EA. SIDE, FLOOR TO 8' AFF UNLESS OTHERWISE NOTED

B TO 8' A.F.F.



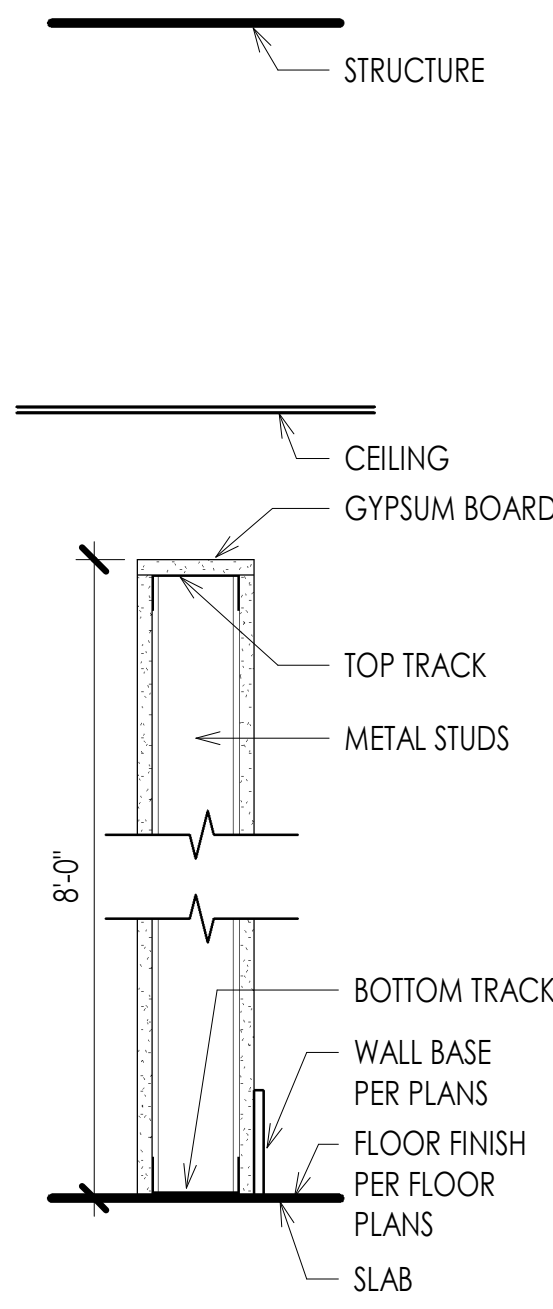
INTERIOR PARTITIONS
6" X 20 GAUGE METAL STUDS AT 16" OC (TYP) WITH 5/8" GYPSUM BOARD ON BOTH SIDES, FLOOR TO 6" ABOVE CEILING UNLESS OTHERWISE NOTED

E3



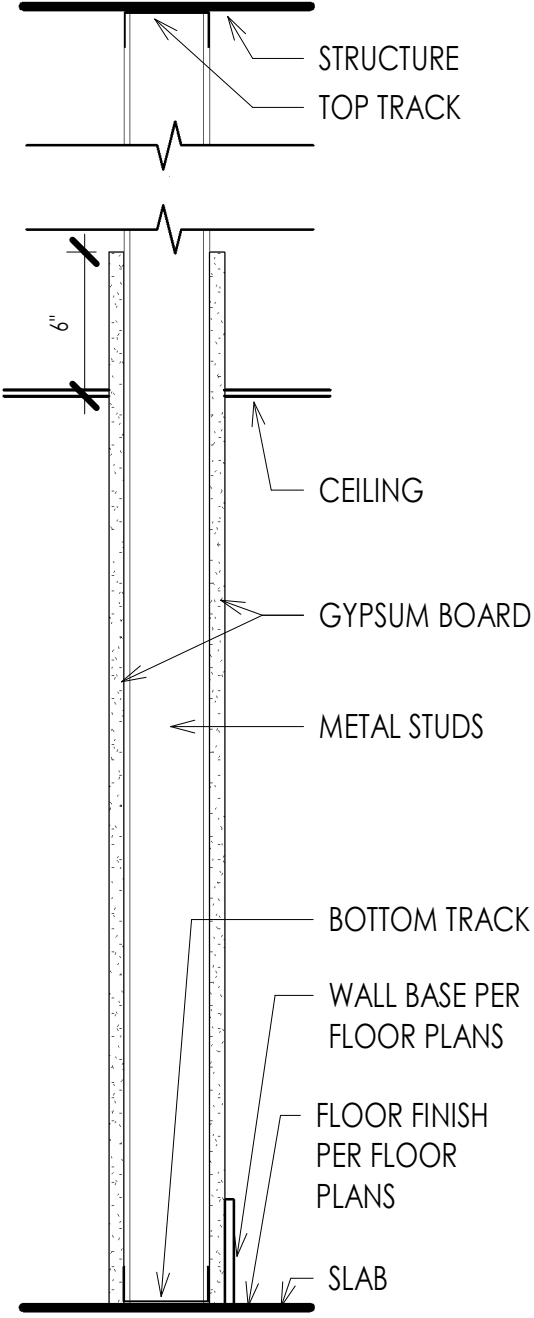
INTERIOR PARTITIONS
3 5/8" X 20 GAUGE METAL STUDS AT 16" OC (TYP) WITH 3/4" MDF ON BOTH SIDES, MDF AND CORNER BEAD ON TOP OF WALL, FLOOR TO 8' AFF UNLESS OTHERWISE NOTED

A2 TO 12'-0" AFF
A3 TO 10'-0" AFF
B2



INTERIOR PARTITIONS
3 5/8" X 20 GAUGE METAL STUDS AT 16" OC (TYP) WITH 5/8" GYPSUM BOARD ON BOTH SIDES, GYPSUM BOARD AND CORNER BEAD ON TOP OF WALL, FLOOR TO 8'-0" AFF.

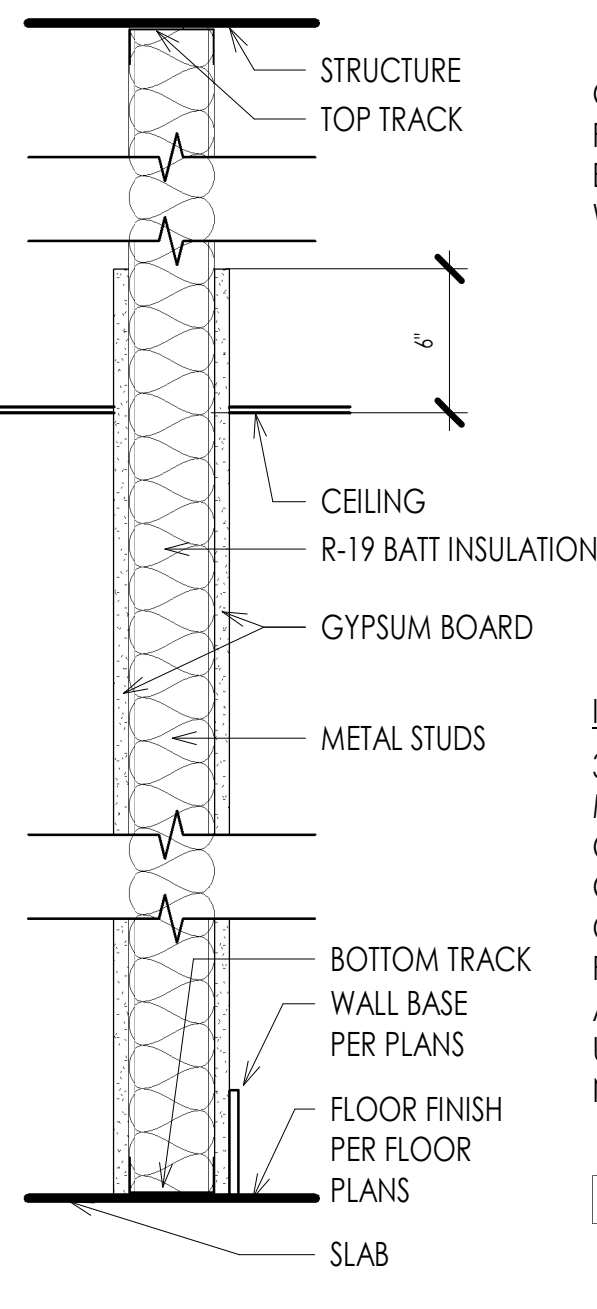
E2



FOR NEW WALLS AND INFILLS, TYPE 'S' SELF-TAPPING STEEL SCREWS SPACED 8 IN O.C. ALONG EDGES OF BOARD AND 12 IN O.C. IN THE FIELD OF THE BOARD. JOINTS ORIENTED VERTICALLY AND STAGGERED ON OPPOSITE SIDES OF THE ASSEMBLY.

A1 TO DECK

NEW WALL TYPES 2

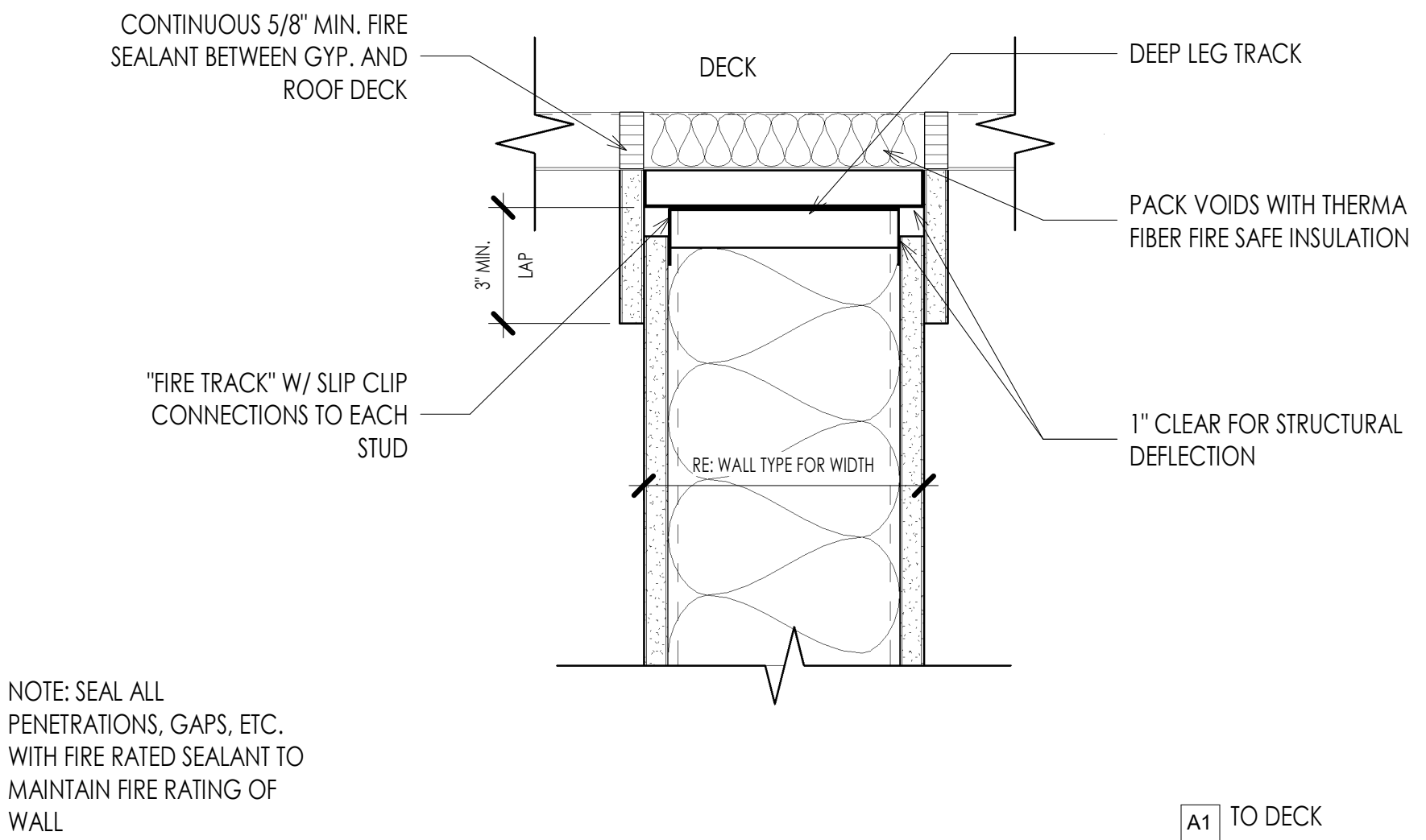


G.C. TO ENSURE FIRE RATING OF EXISTING DEMISING WALL TO REMAIN.

INTERIOR PARTITIONS
3 5/8" X 20 GAUGE METAL STUDS AT 16" OC (TYP) WITH 5/8" GYPSUM BOARD ON BOTH SIDES, FLOOR TO 6" ABOVE CEILING UNLESS OTHERWISE NOTED

E1

EXISTING WALL TYPES 1



NOTE: SEAL ALL PENETRATIONS, GAPS, ETC. WITH FIRE RATED SEALANT TO MAINTAIN FIRE RATING OF WALL

A1 TO DECK

TOP OF WALL TO ROOF DECK CONNECTION 3

project title

RED DEVELOPMENT
SUMMIT FAIR
910 G NW Blue Pkwy
Lee's Summit, MO 64086

project number

23036.001

drawing issuance
ISSUED FOR PERMIT 06/14/23

drawing revisions
No. Description: Date:

professional seal



Date Signed JUN 15 2023
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drawing title
WALL TYPES

drawing number

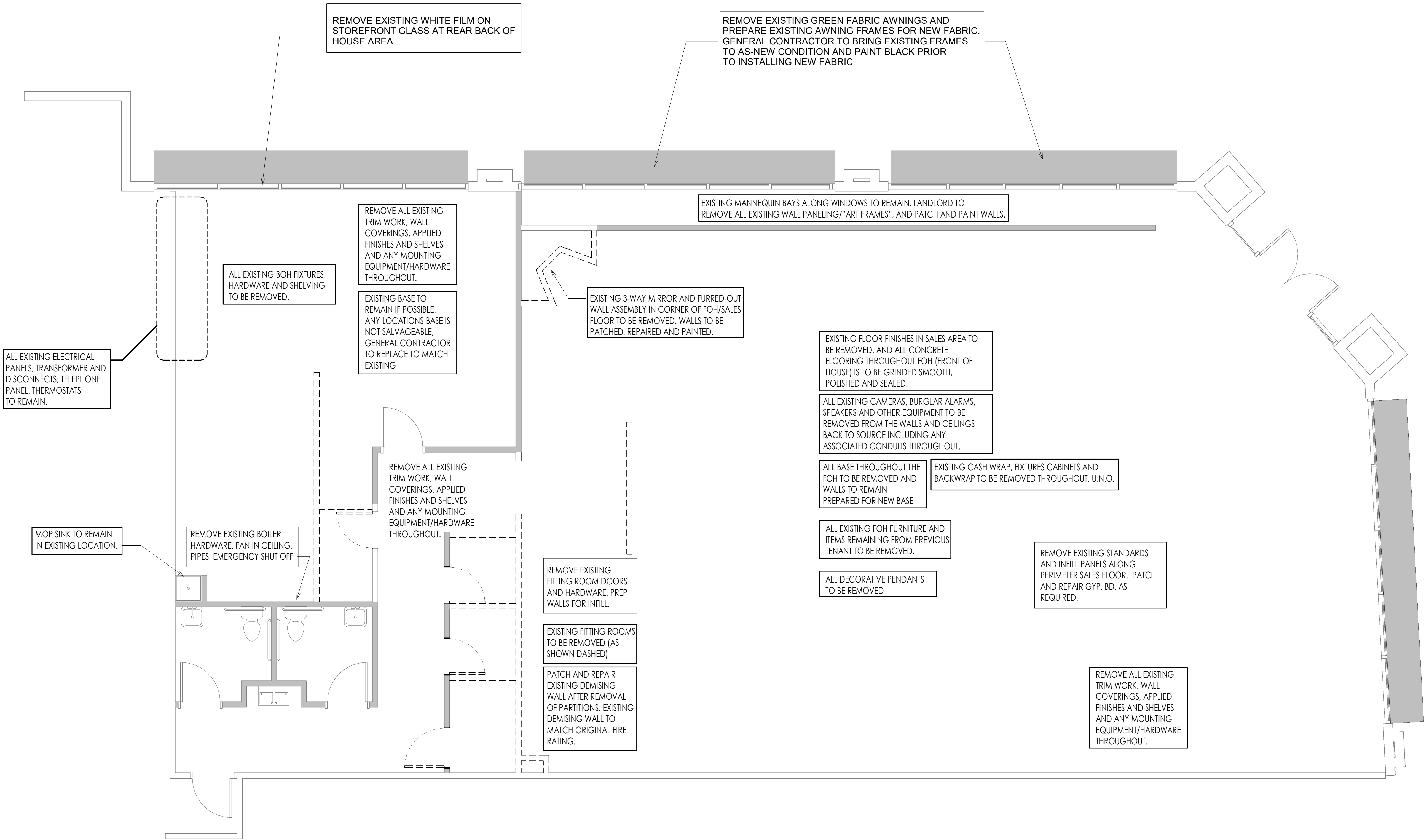
G020

WALL TYPES

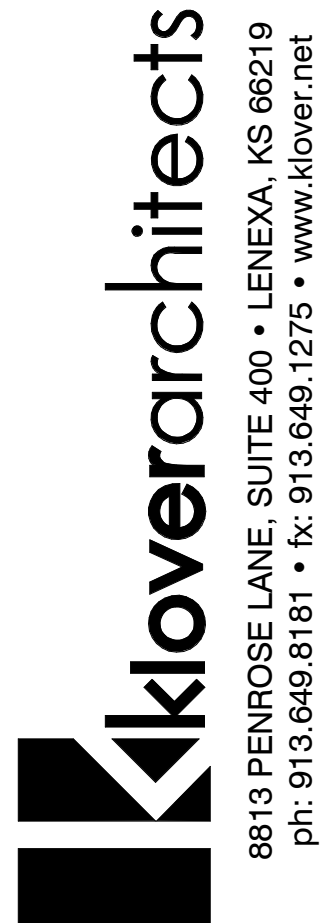
E	EXISTING TO REMAIN
E1	EXISTING TO BE DEMO'D
E2	EXISTING TO BE MODIFIED
E3	
A	NEW
B	FITTING ROOM

GENERAL DEMOLITION NOTES

- DO NOT REMOVE STRUCTURAL MEMBERS UNLESS NOTED OTHERWISE.
- REFER TO OTHER SHEETS IN THIS SET FOR ADDITIONAL DEMOLITION REQUIREMENTS, WHICH SHALL BE BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
- REMOVE ALL EXISTING ELEMENTS WHICH CONFLICT WITH THE NEW WORK, WHETHER OR NOT SHOWN ON THE DRAWINGS.
- PATCH ALL EXISTING ELEMENTS DAMAGED BY DEMOLITION OPERATIONS TO RECEIVE NEW CONSTRUCTION/FINISH.
- DISPOSE OF ALL DEMOLITION DEBRIS LEGALLY.
- CONTRACTOR SHALL DESIGN AND PROVIDE SHORING TO SAFELY SUPPORT EXISTING CONSTRUCTION TO REMAIN DURING DEMOLITION OPERATIONS.
- SAFETY DURING DEMOLITION OPERATIONS SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY.
- PERFORM ALL DEMOLITION WORK IN ACCORDANCE WITH THE OWNER/LANDLORD'S CRITERIA. COORDINATE DEMOLITION WITH OWNER/LANDLORD'S REPRESENTATIVE AND CONTACT OWNER/LANDLORD IN ADVANCE OF ANY WORK INVOLVING CONNECTION TO OWNER'S/LANDLORD'S BUILDING SYSTEMS OR REQUIRING TEMPORARY SHUT DOWN OF UTILITIES.
- PATCH AND REPAIR EXISTING DRYWALL FOUND UNSUITABLE FOR INSTALLATION OF NEW FINISHES.
- WHERE INDICATED REMOVE EXISTING PARTITIONS, CEILINGS, SOFFITS AND ASSOCIATED FRAMING AND BRACING BACK TO STRUCTURE. PROTECT EXISTING STRUCTURAL ELEMENTS NECESSARY FOR THE BUILDING SHELL.
- PROVIDE AND COORDINATE TEMPORARY DUSTPROOF PARTITIONS AS REQUIRED.
- DEMOLITION PLAN SHOWS APPROXIMATE LAYOUT OF EXISTING BUILDING AND IS NOT INTENDED TO REPRESENT "AS-BUILT" CONDITIONS. VISIT SITE AND OTHERWISE BECOME FAMILIAR WITH ACTUAL CONDITIONS WHEN BIDDING THE WORK.
- WALLS, PARTITIONS, DOORS, FRAMES, AND OTHER ITEMS TO BE REMOVED ARE SHOWN DASHED. SERVICES WITHIN WALLS AND PARTITIONS SHALL ALSO BE REMOVED. EDGES OF WALLS SHOWN TO REMAIN SHALL BE SAWCUT OR CLEANLY TOOTHED TO ACCEPT NEW CONSTRUCTION. REPAIR AND PATCH EXISTING WALLS SHOWN TO REMAIN WHERE INTERSECTING WALLS, DOORS, FRAMES, ETC. ARE SHOWN TO BE REMOVED AND WHERE EXISTING CONSTRUCTION WILL NOW BE EXPOSED IN THE NEW CONSTRUCTION.



DEMO PLAN 1
SCALE: 1/4" = 1'-0"



THIS DRAWING has been prepared by the Architect, or prepared under its direct supervision as an instrument of service and is intended for use only on this project. All Drawings, Specifications, Ideas and design, including the overall layout, form, arrangement, and composition of space and elements portrayed, constitute the original unpublished Work of the Architect. Any reproduction, use, or disclosure of the information contained herein without the written consent of the Architect is strictly prohibited.

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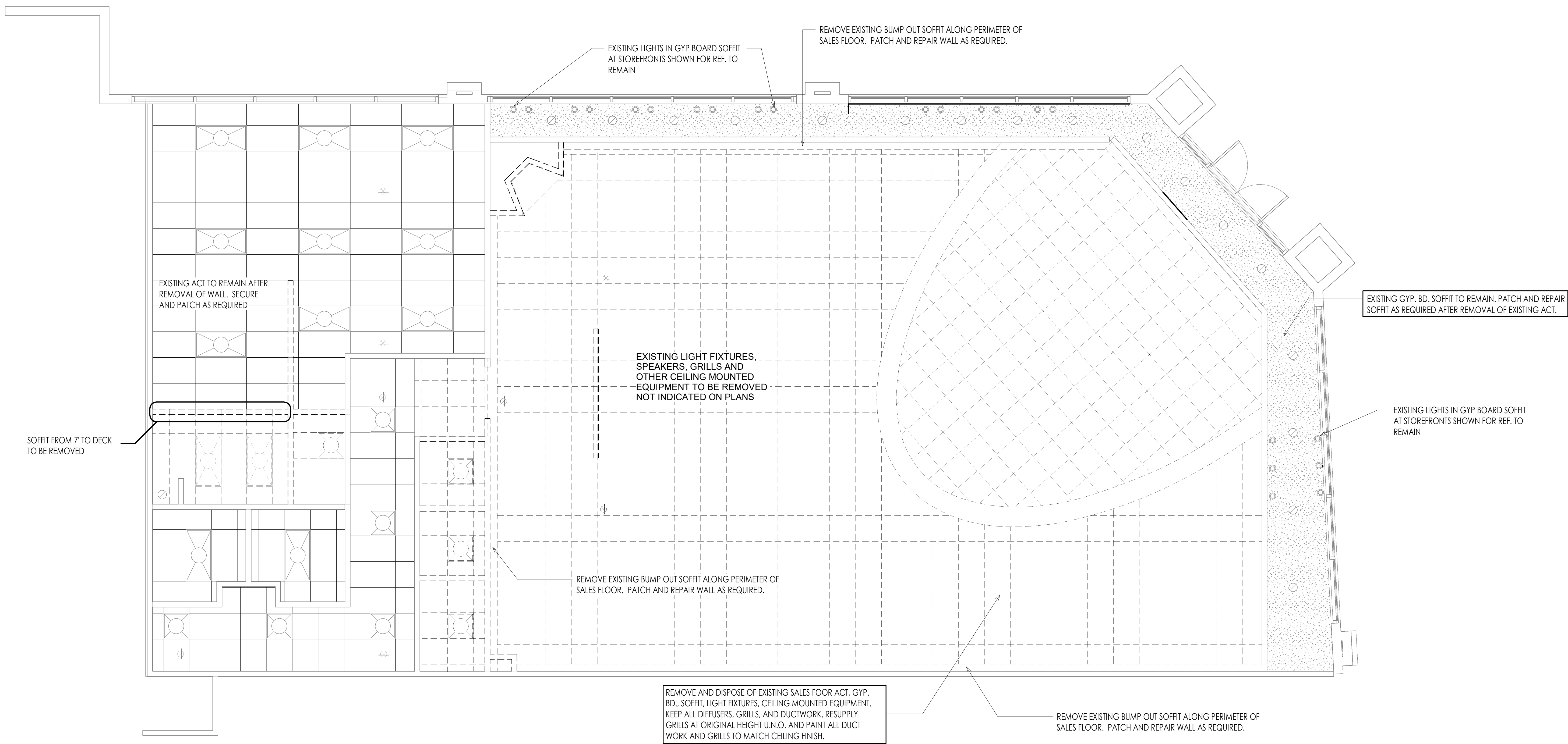
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drawing title

DEMO PLAN

drawing number

D100



EXISTING LIGHTS IN GYP BOARD SOFFIT
AT STOREFRONTS SHOWN FOR REF. TO
REMAIN

REMOVE EXISTING BUMP OUT SOFFIT ALONG PERIMETER OF
SALES FLOOR. PATCH AND REPAIR WALL AS REQUIRED.

EXISTING ACT TO REMAIN AFTER
REMOVAL OF WALL. SECURE
AND PATCH AS REQUIRED

SOFFIT FROM 7" TO DECK
TO BE REMOVED

EXISTING LIGHT FIXTURES,
SPEAKERS, GRILLS AND
OTHER CEILING MOUNTED
EQUIPMENT TO BE REMOVED
NOT INDICATED ON PLANS

REMOVE EXISTING BUMP OUT SOFFIT ALONG PERIMETER OF
SALES FLOOR. PATCH AND REPAIR WALL AS REQUIRED.

REMOVE AND DISPOSE OF EXISTING SALES FOOR ACT, GYP.
BD., SOFFIT, LIGHT FIXTURES, CEILING MOUNTED EQUIPMENT.
KEEP ALL DIFFUSERS, GRILLS, AND DUCTWORK. RESUPPLY
GRILLS AT ORIGINAL HEIGHT U.N.O. AND PAINT ALL DUCT
WORK AND GRILLS TO MATCH CEILING FINISH.

REMOVE EXISTING BUMP OUT SOFFIT ALONG PERIMETER OF
SALES FLOOR. PATCH AND REPAIR WALL AS REQUIRED.

EXISTING GYP. BD. SOFFIT TO REMAIN. PATCH AND REPAIR
SOFFIT AS REQUIRED AFTER REMOVAL OF EXISTING ACT.

EXISTING LIGHTS IN GYP BOARD SOFFIT
AT STOREFRONTS SHOWN FOR REF. TO
REMAIN

DEMO RCP 1
SCALE: 1/4" = 1'-0"

THE ARCHITECT DISCLAIMS responsibility for the existing building structure, the conditions, existing construction elements, or any documents, drawings or other instruments used for any part of this Project which do not bear the Architect's seal. The Architect's services are undertaken only in the interest of the Project Owner. No obligation is assumed by the Architect for the benefit of any other entity. **RELATED DOCUMENTS:** This Drawing is a single component of an integrated set of Construction Documents, General and Supplementary Conditions of the Contract, General Requirements, Specifications and other Drawings may affect the Work described. Failure to review and integrate the design intent of the whole of the Construction Documents does not relieve the Contractor from providing a complete Project. **COMPLY** with all laws, codes, ordinances and regulations with authority having jurisdiction and with requirements of the Landlord, if applicable. Do not start Work until all permits and required approvals are obtained. **VERIFY ACTUAL CONDITIONS** and dimensions prior to construction. Commencement of Work constitutes verification and acceptance of all existing conditions. Application of a material or equipment item to Work installed by others constitutes acceptance of that Work, and assumption of responsibility for satisfactory installation. **DIMENSIONS SHOWN** are to finish face of a material unless otherwise indicated. **CALCULATE & MEASURE** dimensions - **DO NOT SCALE** drawings unless otherwise directed.

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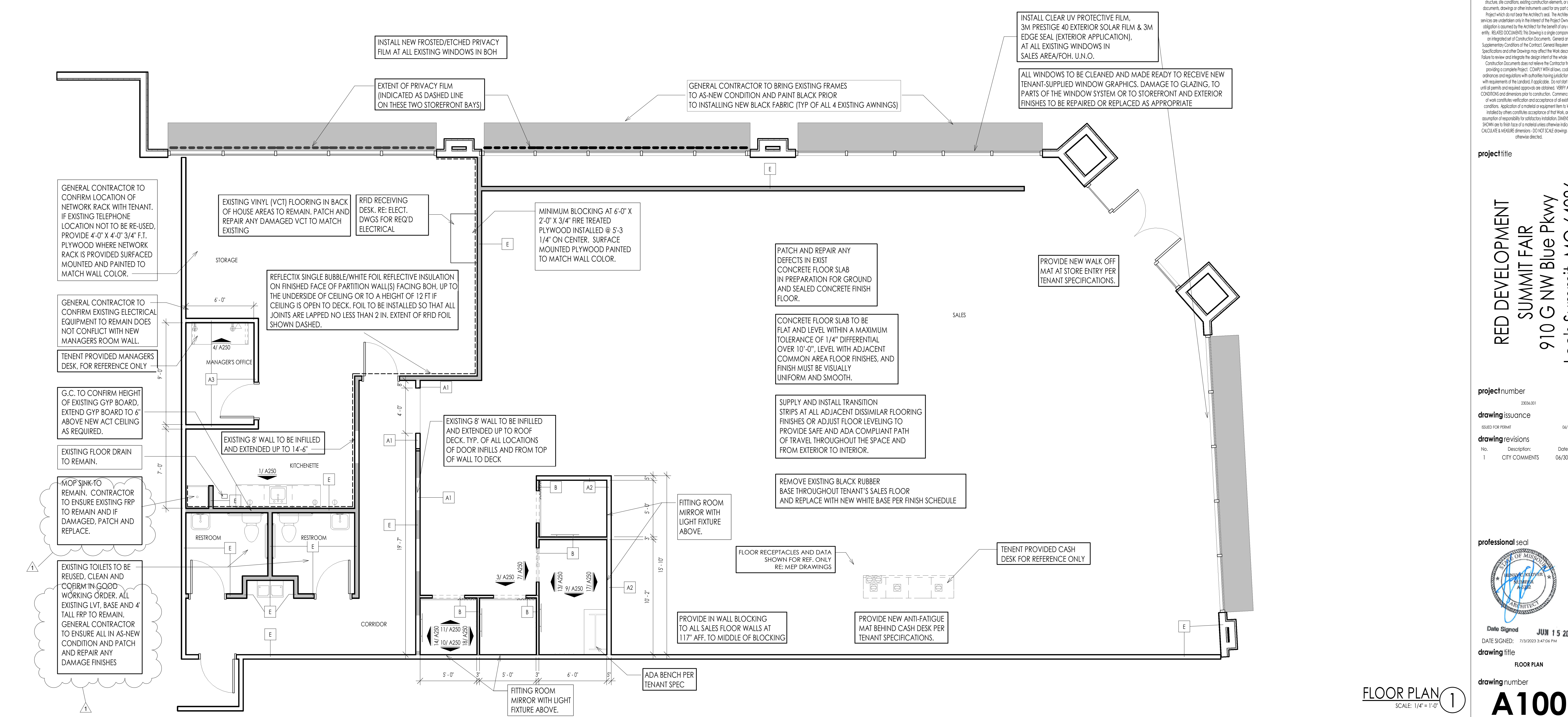
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DATE SIGNED: 6/15/2023 5:32:43 PM

drawing title
DEMO REFLECTED CEILING PLAN

drawing number
D101

FINISH SCHEDULE						
AREA	LOCATION	MANUFACTURER	MODEL / LINE	COLOR	FINISH / SIZE	NOTES
FRONT OF HOUSE (SALES)	BASEBOARDS	TARKETT	JOHNSONITE	50 WHITE	MANDALAY 4 1/2"	OR SIMILAR
	WALLS	BENJAMIN MOORE		OC-53 HORIZON	EGGSHELL	
	OPEN CEILINGS	BENJAMIN MOORE		HC-179 PLATINUM GRAY	ULTRA FLAT (508)	DECKS 14" AFF OR LESS
	SOFFIT	BENJAMIN MOORE		OC-65 CHANTILLY LACE, ULTRA FLAT		14" H SOFFIT ALONG STOREFRONT
	DOORS/CASINGS/TRIMS	BENJAMIN MOORE	SCUFF X	HC-166 KENDALL CHARCOAL	SATIN (486)	
	FITTING ROOM WALLS	BENJAMIN MOORE	ULTRA SPEC SCUFF X	OC-53 HORIZON	MATTE (484)	
BACK OF HOUSE / CORRIDOR	WALLS	BENJAMIN MOORE	ULTRA SPEC SCUFF X	HC STONINGTON GRAY	SATIN (486)	
	CEILINGS	BENJAMIN MOORE		OC-65 CHANTILLY LACE	ULTRA FLAT	ALL EXST. DRYWALL /ACT CEILINGS
	DOORS/CASINGS/TRIMS	BENJAMIN MOORE	SCUFF X	HC-166 KENDALL CHARCOAL	SATIN (486)	
	BASEBOARDS	TARKETT	JOHNSONITE	40 BLACK	MANDALAY 4 1/2"	
MANAGER'S OFFICE	WALLS	BENJAMIN MOORE	ULTRA SPEC SCUFF X	HC STONINGTON GRAY	SATIN	
	CEILINGS	BENJAMIN MOORE		OC-65 CHANTILLY LACE	ULTRA FLAT	ALL EXST. DRYWALL /ACT CEILINGS
	DOORS/CASINGS/TRIMS	BENJAMIN MOORE	SCUFF X	HC-166 KENDALL CHARCOAL	SATIN (486)	
	BASEBOARDS	TARKETT	JOHNSONITE	40 BLACK	MANDALAY 4 1/2"	
KITCHENETTE	WALLS	BENJAMIN MOORE	ULTRA SPEC SCUFF X	HC STONINGTON GRAY	SATIN (486)	
	CEILINGS	BENJAMIN MOORE		OC-65 CHANTILLY LACE	ULTRA FLAT	ALL EXST. DRYWALL /ACT CEILINGS
	DOORS/CASINGS/TRIMS	BENJAMIN MOORE	SCUFF X	HC-166 KENDALL CHARCOAL	SATIN (486)	
	BASEBOARDS	TARKETT	JOHNSONITE	40 BLACK	MANDALAY 4 1/2"	
RESTROOMS	WALLS	BENJAMIN MOORE	ULTRA SPEC SCUFF X	HC STONINGTON GRAY	SATIN (486)	
	CEILINGS	BENJAMIN MOORE		OC-65 CHANTILLY LACE	ULTRA FLAT	ALL EXST. DRYWALL /ACT CEILINGS
	DOORS/CASINGS/TRIMS	BENJAMIN MOORE	SCUFF X	HC-166 KENDALL CHARCOAL	SATIN (486)	
	BASEBOARDS	TARKETT	JOHNSONITE	40 BLACK	MANDALAY 4 1/2"	

ALL PAINT SHALL NOT BE LOW
VOC, SHOULD NOT CONTAIN ANY
SILICONE, ACRYLIC ADDITIVES,
OR ANTI-GRAFFITI/ANTI
MOLD/ANTI SCUFF COMPONENTS U.N.O.



klloverarchitects
8813 PENROSE LANE, SUITE 400 • LENEXA, KS 66219
ph: 913.649.8161 • fx: 913.649.1275 • www.klover.net

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project title

RED DEVELOPMENT
SUMMIT FAIR
910 G NW Blue Pkwy

projectnumber

23036.001

ISSUED FOR PERMIT 06/

drawing revisions

No.	Description	Date
1	CITY COMMENTS	06/30

professional seal



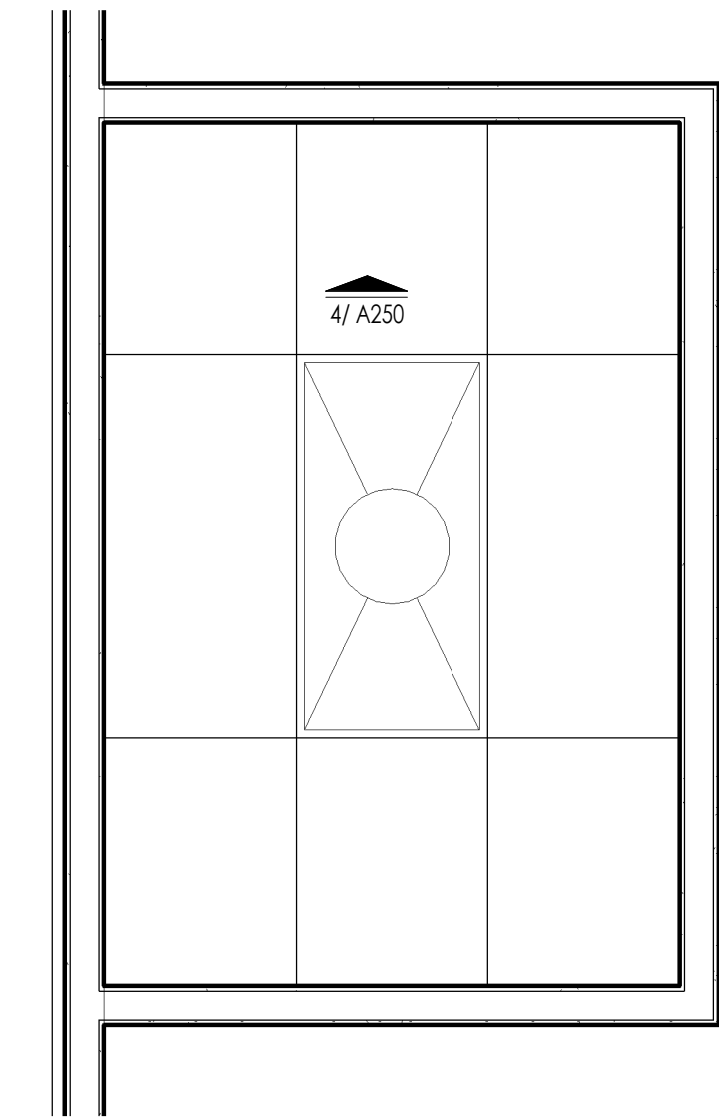
Date Signed JUN 15 20

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drawing title

drawing number
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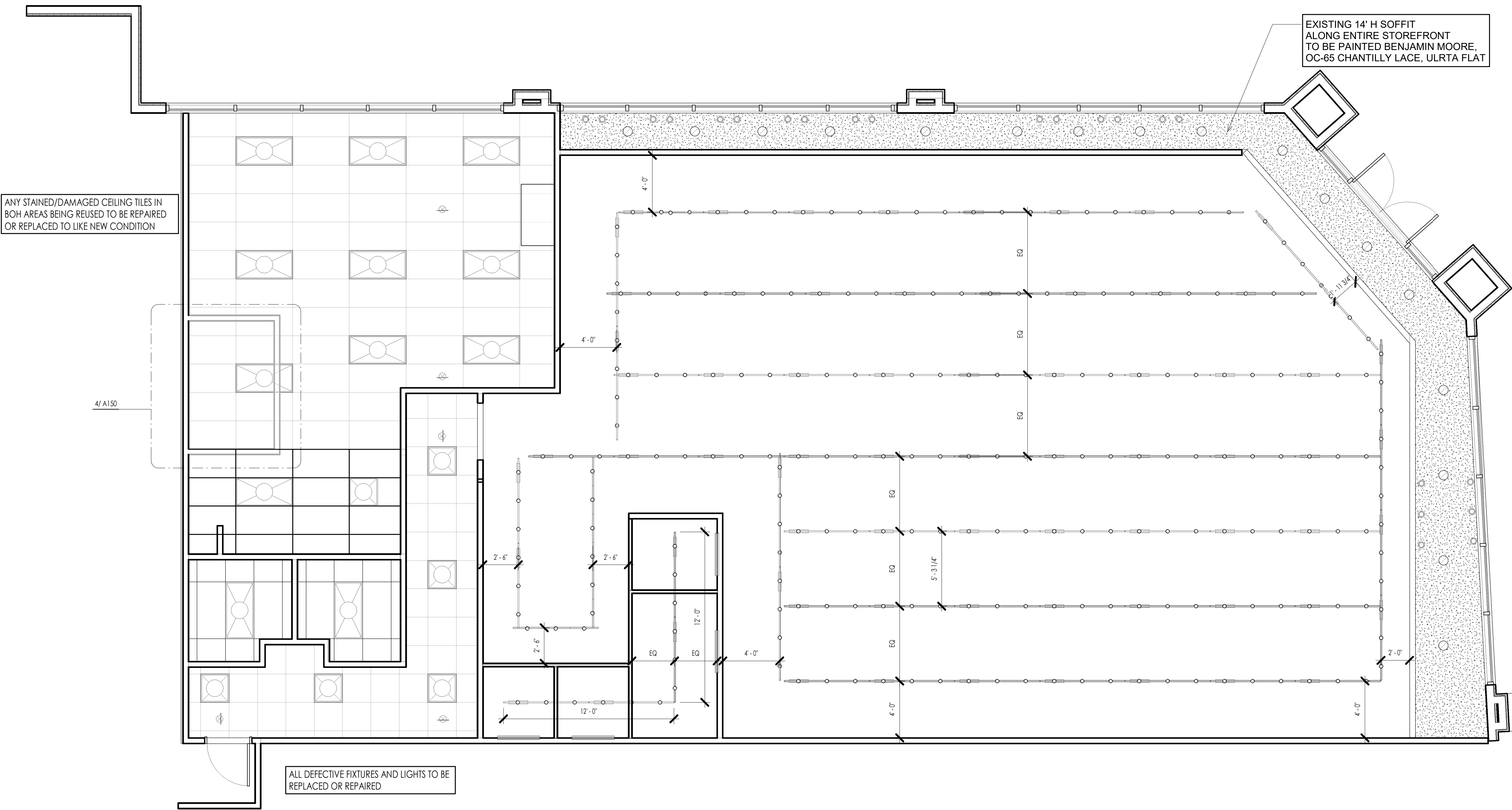
A 100



MANAGER'S OFFICE NEW RCP

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

4



REFLECTED CEILING PLAN

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

1



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project title

RED DEVELOPMENT

SUMMIT FAIR

910 G NW Blue Pkwy

Lee's Summit, MO 64086

project number

23036.001

drawing issuance

ISSUED FOR PERMIT

06/14/23

drawing revisions

No.

Description

Date

professional seal



Date Signed

JUN 15 2023

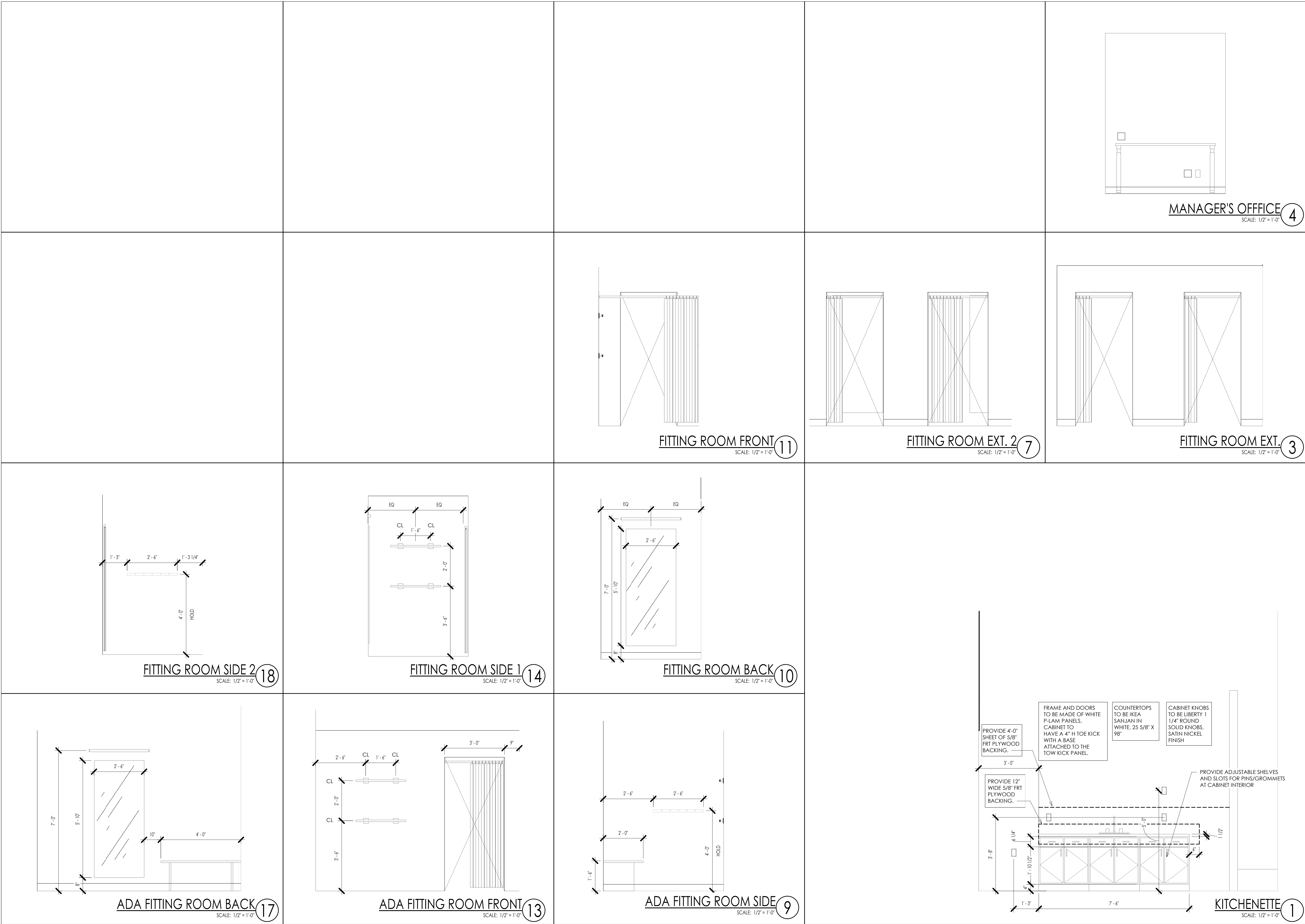
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drawing title

REFLECTED CEILING PLAN

drawing number

A150



SECTION 00 22 13 - SUPPLEMENTARY INSTRUCTIONS TO BIDDERS:

AIA DOCUMENT A701-1997 "INSTRUCTIONS TO BIDDERS" is included as a part of these documents by this reference. Copies are available from The American Institute of Architects, 1735 New York Avenue N. W., Washington, D. C. 20006, or the local AIA office. Note that Paragraph 2.1.3 requires that each bidder visit the site prior to submitting a bid/proposal.

THE FOLLOWING PARAGRAPHS modify, delete from, and/or add to the above referenced Instructions to Bidders, as if originally written therein. Where any Article of the Instructions is modified, or where any Paragraph, Subparagraph or clause thereof is modified or deleted by the following Supplementary Instructions, the unaltered provisions shall remain in effect.

ADD the following paragraph to Article 1 - Definitions:
"1.10 STIPULATED SUM amounts shall include all costs to the Contractor for materials, labor, equipment, testing and any and all items of expense (including phone calls), fees, taxes, overhead and profit for the Contractor's full and complete performance of the Work as set forth in the Contract Documents."

REPLACE Paragraph 2.1.4 to read as follows:
"Any deviations from or exceptions to the Specifications, Drawings, Terms and Conditions and/or any other Bid Document must be clearly defined and set forth in the Bidder's Proposal. If no exceptions are shown in the proposal, none will be considered at the time of Contract Award."

REPLACE Paragraph 3.3.2 to read as follows:
"3.3.2 Substitutions proposed by a Bidder are not to be included in the Base Bid, but may be appropriately itemized on the Bid Form or as an attachment thereto as a "Contractor's Voluntary Alternate" with the corresponding add or deduct amount included."

ADD New Paragraph: 4.1.8 as follows:
"4.1.8 Bids shall remain in effect for a period of no less than THIRTY (30) days after submittal. The proposed price(s) shall include all costs to the Contractor for materials, labor, equipment, testing and any and all items of expense (including phone calls), fees, taxes, overhead and profit for the Contractor's full and complete performance of the work as set forth in the Contract Documents."

ADD New Paragraph: 4.1.9 as follows:
"4.1.9 Provide a complete line-item breakdown of all development or construction related fees included within the proposed Contract Sum, either on the Bid Form, or as a separate attachment if necessary. "

DELETE Paragraph 4.2 in its entirety - no bid security will be required.

ADD Paragraph: 5.3.3 as follows:
"5.3.3 Bidders are hereby advised that Proposals for this Work are being invited from other bidders."

DELETE subparagraph 7.1.1 and ADD the following:
"7.1.1 Costs for Performance and Labor and Material Payment Bonds shall be indicated as an alternate cost on the Bid Form, and shall not be included within the Base Bid amount. The Owner reserves the right to require such bonds to be furnished upon execution of the Contract (or subsequent to contract execution as a change order) in the amount specified on the Bid Form."

ADD the following Paragraph 8.1 - Form of Agreement:
"8.1 Form of Agreement: The Agreement form may be either AIA Document A101, or on an equivalent non-standard form with similar language acceptable to both the Owner and to the Contractor. If approval by both parties cannot be reached on the format of the non-standard form, then AIA Document A101 will be used."

SECTION 00 73 00 - SUPPLEMENTARY CONDITIONS

GENERAL CONDITIONS: AIA Document A 201-1997 Edition: "General Conditions of the Contract for Construction" is included as a part of the Contract Documents by reference. Participation in the Work of this Project is considered acknowledgement of the participants understanding of, and agreement with, all requirements of the Contract for Construction.

THE FOLLOWING "SUPPLEMENTARY CONDITIONS" modify the "General Conditions" as if originally written therein. Where a portion of the General Conditions is modified or deleted by these Supplementary Conditions, the unaltered portions of the General Conditions shall remain in full effect.

ARTICLE 1 - CONTRACT DOCUMENTS

ADD to paragraph 1.1, DEFINITIONS, the following:
"1.1.8 "FURNISH": Supply and deliver to Project site, ready for unloading, unpacking, assembly, installation, and similar operations.

1.1.9 "INSTALL": Operations at the Project Site including but not limited to unloading, temporarily storing, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations.

1.1.10 "PROVIDE": Furnish and install, complete and ready for the intended use.

ADD to paragraph 1.2, CORRELATION AND INTENT, ... the following:
"1.2.4 THE INTENT OF THE CONSTRUCTION DOCUMENTS is to include all items required for completion of the Work. Although the Drawings have been prepared with due care and diligence, design and construction is complex. Consequently, the Drawings are often diagrammatic - as every potential condition or contingency cannot be anticipated or fully indicated, and all components required for complete installation may not be fully indicated.

1.2.5 Notes written in the imperative mood refer to action(s) to be performed by the Contractor, the words "the Contractor shall" are always implied, unless otherwise noted within the Construction Documents.

1.2.6 Figured dimensions and marked data shall take precedence over scaled measurements, and details shall take precedence over smaller scale general drawings.

1.2.7 In case of conflict in or between contract requirements (General and Supplementary Conditions), General Requirements (Division-1 Specification Sections), Drawings, Specifications or manufacturer's product requirements, the Contractor will be deemed to have submitted on, and agreed to provide, the greater quantity and better quality of materials and Work."

REPLACE Paragraph 1.5.2 with the following:
"1.5.2 Execution of the Contract by the Contractor is a representation that the Contractor has carefully examined and understood the intent of the Contract Documents, that the Contractor has visited the project site and has reviewed the conditions under which the Work will be performed (including but not necessarily limited to labor availability, codes and regulations, hazards, procedures, construction means and methods necessary and weather conditions), and that he/she has correlated his/her personal observations with the requirements of the Contract Documents. No claims will be approved for additional time or costs resulting from the Contractor's lack of familiarization of the requirements of the Construction Contract."

ADD to Paragraph 1.6 the following:
"1.6.2 Electronic media files are considered 'Instruments of Service' of the Architect, who retains all common law, statutory law and other rights, including the copyright. No representation is made regarding the accuracy or completeness of electronic media data. If electronic media files are transferred from the Architect to the Contractor, the Contractor will not use the Electronic Media data for any purpose other than preparation of shop drawings, coordination drawings, or for Record Drawings of this Project. The Contractor agrees not to transfer the electronic media data to any entity not involved in the construction Work without the prior written consent of the Architect. The Contractor further agrees to waive all claims against the Owner and the Architect, resulting in any way from any use of the use of the electronic media data. Use of electronic media data does not reduce or minimize in any way the Contractor's responsibility to take field measurements, check dimensions, and to coordinate with other construction work at the Project Site."

ARTICLE 3 - CONTRACTOR

ADD to Paragraph 3.5 the following:
"3.5.2 It is hereby understood that the failure of any piece of equipment, material, or service provided in this Contract to fail approval by any public authority constitutes a default in performance and that the Contractor will correct such failure as expeditiously as possible in a manner acceptable to such authorities and to the Owner. If the Contractor does not provide corrections within thirty (30) days of discovery of the default condition, the Owner may provide the corrections and charge the Contractor for all costs incurred plus a ten percent (10%) administrative fee or \$500, whichever is greater."

ADD to subparagraph 3.7.1 the following:
"3.7.1.1 The Contractor shall pay for all hook-up charges, "tap-in" fees, permit-fees and other related expenses related to agency review and approval of the construction, as required for full connection or hook-up of all utilities. Impact- or use-fees charged by public agencies or utilities related to the Owner's increased use of such utilities will be paid directly by the Owner."

ADD to Paragraph 3.10 the following:
"3.10.4 If the Contractor fails to adhere to the Construction Schedule, the Contractor will furnish additional labor and/or services, or work sufficient overtime as may be necessary to make construction progress conform to the Construction Schedule. Failure to adhere to the schedule, or failure to take steps to regain the schedule, shall constitute default within the terms of the Contract."

ARTICLE 4 - ADMINISTRATION OF THE CONTRACT

REVISE Article 4 from Paragraph 4.2, through Paragraph 4.6 inclusive, by substituting the word "Owner", wherever the word "Architect" is used, as the Owner will administer the Construction Contract.

ADD to Paragraph 4.3.7.1 the following:
"Notice of the Contractor's intent to make a claim for additional time must be received by the Owner within seven (7) days of commencement of the event or condition forming the basis for the claim."

ARTICLE 9 - PAYMENT AND COMPLETION

"9.3.1.3 Unless otherwise indicated in the Owner - Contractor Agreement Form, The Owner will retain ten percent (10%) of the amount of each progress payment application until final payment."

ARTICLE 11 - INSURANCE & BONDS

ADD to Subparagraph 11.1.1 the following:
"11.1.4 Liability insurance shall include all major divisions of coverage and shall be on a comprehensive basis with specified limits listed below maintained specifically for this project. Coverages shall include: Personal Injury Liability with Employment Exclusion deleted, Contractual, including specified provisions for Contractor's obligation under Paragraph 3.18, Owned, non-owned and hired motor vehicles, and Broad Form Property Damage coverage. Premises-Operations, Independent Contractor's Protective, Products and Completed Operations, Owner's & Designers Protective Liability, and Broad Form Property Damage coverage. Property Damage Liability coverage shall provide X, C, and U coverages, with Completed Operations and Products Liability coverage maintained for two (2) years after final payment. The following minimum limits are applicable to each incident occurrence as well as for the total annual aggregates - which shall be dedicated specifically for this project only. Minimum coverage amounts shall be as listed below, or as required by law, whichever is greater:

Worker's Compensation:	Statutory
General Employer's Liability:	\$ 1,000,000.00
Comprehensive General Liability, Contractual Liability, Owners & Contractor's Protective Liability, and Independent Contractors Protective Liability:	
Property damage:	\$ 1,000,000.00
Contractual Liability:	\$ 1,000,000.00
Property Damage:	\$ 1,000,000.00
Bodily injury:	\$ 1,000,000.00
Comprehensive Automobile Liability:	
Property Damage:	\$ 1,000,000.00
Bodily injury:	\$ 1,000,000.00
Umbrella Excess Liability Insurance:	\$ 2,000,000.00

ADD to Subparagraph 11.1.3, the following:
"11.1.3.1 All certificates of insurance required herein shall name the Owner, the Landlord (as applicable) and the Architect as additional insured."

DELETE Paragraph 11.3 - Project Management Protective Liability Insurance, in its entirety.

DELETE Subparagraph 11.5.1 from Paragraph 11.5 - Performance Bond and Payment Bond, and ADD the following:

"11.5.1 BONDS are not required by the Owner, however Performance and Payment Bonds may be required by the Landlord. When applicable, review the Landlord's requirements and provide bonds complying therewith. If required, submit notarized bond forms to the Owner and Landlord prior to start of construction. Costs for bonds, if required, shall be included in the Contract Sum."

GENERAL REQUIREMENTS

THE WORK consists of limited demolition and new interior tenant-finish construction as indicated in the Construction Documents. Perform all work required for completion of the Project, except as otherwise indicated herein.

USE OF EXISTING BUILDING: Limit construction activities to occur within the Project Site, or within other areas designated or approved for use by the Owner or Landlord. If not within the project site, make connections to existing utilities in the most expeditious manner possible. Perform the Work so that it will not interfere with adjacent facilities.

MAINTAIN THE EXISTING BUILDING in a safe and weather tight condition. Do not install combustible materials above finished ceilings or in any other concealed spaces. Repair damage caused by construction operations. Take all precautions to protect the existing building and its occupants. Keep public areas such as hallways, stairs, and existing toilet rooms free from accumulation of waste material, rubbish or construction debris.

PROJECT COORDINATION & ADMINISTRATION:

SCHEDULE AND COORDINATE THE WORK of the complete Project to assure an efficient and orderly sequence of installation of construction elements, with provisions for accommodating items to be installed later. Prepare general coordination drawings, schedules, and control site utilization, from beginning of construction throughout project close-out. Coordinate space requirements and installation of mechanical and electrical Work which are indicated diagrammatically on the Drawings. Follow routing shown for pipes, ducts, and conduits, as closely as practical; make runs parallel with lines of the building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs. Conceal pipes, conduits and similar elements whenever possible within the new construction, in finished areas.

MAINTAIN A RECORD-SET of Construction Documents indicating differences between Construction Documents and the actual installed Work. Mark revisions made during construction with colored pencil - do not conceal any Work before revisions have been recorded. Note actual routing of under-slab plumbing and utility lines, if different from design drawings.

DO NOT construct or install any portion of the Work related to these drawings at any time without such drawings being available at the site.

SUBMITTALS

COORDINATE submittals with related submittals and other activities that require sequential action. Group transmittal of different kinds of submittals for the same unit of work so that information is available for checking each item when it is received. Consecutively number all submittals - when an item is resubmitted for any reason, transmit under a new letter of transmittal and with a new transmittal number.

SUBMITTALS SHALL CONTAIN the date of submission; the Project Title; the Contractor's name, the name of the sub-contractor, supplier or manufacturer, as applicable; identification of the product being submitted; clear identification of field dimensions, verified by the Contractor; relation to adjacent or critical features of the Work; applicable standards; identification of deviations from the Contract Documents; and a clear space for the Contractor's and the Architect's review stamps.

STAMP & APPROVE ALL submittals with an approval stamp, dated, and initialed or signed, certifying approval of the submittal, verification of the product being submitted, and verification that the product submitted complies with the requirements of the Contract Documents. Failure to properly verify conformance and conditions at the job site will not relieve the Contractor of the responsibility to properly install the Work.

ELECTRONIC SUBMITTALS: In order to conserve paper, limit delivery/courier expenses, and to expedite the review process, forward electronic submittals to the greatest extent feasible. Maintain one (1) set of printed, approved submittals at the Project Site, complete with applicable review and approval comments.

SHOP DRAWINGS: Submit three (3) full-size printed originals (one to be returned) in addition to electronic submittals. Make and distribute as many copies as necessary for records, coordination, construction operations.

TEMPORARY FACILITIES & CONTROLS

INCLUDE ALL COSTS for temporary utilities, temporary facilities and temporary controls within the Contract Sum. Connect to existing systems at the project site to provide for temporary water, electrical power, lighting and heat for construction operations, unless otherwise indicated.

PROVIDE TEMPORARY ELECTRICAL POWER including a grounded power distribution system with overload protection. Size system to accommodate use of power tools, electrical heating, lighting, and start-up testing of permanent electric-powered equipment prior to its permanent connection. Locate multiple outlets (minimum of 4-gang) spaced so that the construction area can be reached by power tools on a single extension cord of 50' maximum length.

PROVIDE TEMPORARY LIGHTING fixtures in areas where ceilings and existing fixtures are removed. Re-use existing lighting fixtures when possible and suspend from the existing structure. Remove temporary lighting fixtures when permanent fixtures are operational.

PROVIDE SANITARY FACILITIES including temporary toilets, wash facilities and drinking water dispensers for the use of all workers. Existing toilet facilities cannot be used by construction personnel. Provide separate facilities for male and female personnel when both sexes are working. Comply with all applicable codes and regulations and health department requirements for the type, number, location, operation and maintenance of fixtures and facilities. Provide toilet tissue, paper towels, paper cups and similar disposable materials for each facility.

PROVIDE TEMPORARY HEAT AND VENTILATION to maintain adequate environmental conditions to facilitate progress of the Work, to meet specified minimum conditions for the installation and proper curing of materials, to protect materials and finishes from damage due to temperature or humidity, and to prevent hazardous accumulations of dust, fumes, vapors or gases. Once new systems are operational, they may be used for temporary heating and cooling only if: (1) all registers diffusers and filters are cleaned before substantial completion, and (2) warranty periods remain unchanged, starting from the date of Substantial Completion.

PROVIDE TEMPORARY FIRE EXTINGUISHERS of type ABC at locations reasonably effective in extinguishing fires. Comply with NFPA No. 10. Post warning and quick-instructions at each extinguisher, and instruct personnel on proper use. Post fire department call number on each telephone at project site.

PROVIDE TEMPORARY COMMUNICATION SERVICE including local phone service (wired or wireless - 1 line minimum) with a phone handset. Provide either a separate "tax" phone line with fax machine or broadband internet service for instant contact for project coordination. Allow use of communications equipment for the Owner, Architect and for sub-contractors, with long-distance costs to be paid for by the party making the calls.

PROVIDE TEMPORARY BARRIERS to prevent public entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.

PROTECT EXISTING CONSTRUCTION from damage by construction operations.

SCAFFOLDING: Provide all scaffolding and construction aids required, including guard rails, lights and platforms necessary for the completion of the Work, and for the protection of the workmen and the public.

ACCESS TO WORK: Repair all damage to existing property, corridors, roads and parking areas by job related vehicles or personnel at no cost to the Owner.

LIMIT PARKING for construction personnel to existing spaces approved for and/or designated for use by the Landlord.

PROGRESS CLEANING: At all times, keep the project site free from accumulation of waste materials or rubbish caused by construction operations. Provide suitable waste receptacles for trash and construction debris, and arrange for transportation and legal disposal of materials off site.

PROVIDE DUMPSTERS AND COLLECT WASTE from construction operations daily. Comply with requirements of NFPA 241 for removal of combustible waste material and debris. Do not hold materials more than 72 hours during normal weather or 3 days when the temperature is expected to rise above 80 deg F. Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Dispose of material in a lawful manner.

FIELD OFFICE: Maintain an area within the leased space for the management of the Work. Provide space to review project drawings, for project meetings, and storage of documents.

FIELD ENGINEERING

SURVEY THE EXISTING BUILDING FACILITY prior to the start of construction, to document any existing conditions such as cracks, sags, loose materials or other defects of the existing construction. This record shall serve as a basis for determination of subsequent damage resulting from the Contractor's operations at the site.

VERIFY existing horizontal and vertical control points, grades, elevations, dimensions, and other figures shown on the Drawings. Report inconsistencies to the Architect for resolution before commencing work.

WORK LAYOUT: Establish and maintain chalk-lines and other markers necessary to locate all elements of the project, including partitions, casework, electrical and plumbing connections and fixtures. Calculate and measure required dimensions.

DO NOT SCALE THE DRAWINGS to determine dimensions, unless directed to do so.

ESTABLISH & MAINTAIN new benchmarks and other markers to set lines and levels for the Work as needed to properly locate all elements of the Project. Calculate and measure required dimensions by instrumentation or other appropriate means. Do not scale the drawings to determine dimensions, unless directed by the Architect.

TAKE FIELD MEASUREMENTS as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

GENERAL PRODUCT REQUIREMENTS

PRODUCT OPTIONS - "OR EQUALS" ALLOWED UNLESS NOTED: When a material, article or piece of equipment is identified in the Drawings or in the Specifications, it is so identified for the purpose of establishing a standard of required function, availability, dimension, color, appearance, quality, performance, operation and maintenance. Unless that product is indicated as "no substitutions" or "no-options" within the Drawings or Specifications, the Contractor may substitute ANY product of other manufacturers or vendors which will perform adequately the duties imposed by the specified item, and which will not cause a delay in the construction schedule due to procurement of such item.

PRODUCTS IN QUANTITIES shall be alike and interchangeable. Where additional amounts of a product are likely to be needed by the Owner at a later date for maintenance and repair, provide standard, domestically produced products which are likely to be available to the Owner at such later date.

SUPPLY PRODUCTS COMPLETE with all standard devices, trim finish, and all accessories indicated in the latest edition of the manufacturer's catalog or brochure published at the date of the award of the Contract. Furnish such items complete with component parts necessary for the obvious and intended use and installation, whether or not descriptions or catalog numbers contain all supplemental information and/or numbers of such components.

EQUIPMENT NAMEPLATES: Provide permanent nameplates on each item of service-connected or power operated equipment. Indicate manufacturer, product name, model number, serial number, capacity, speed, rating, and similar essential operating data. Locate nameplates on an easily accessible surface.

LABELS: Locate required labels and stamps on an accessible surface which, in occupied spaces, is not conspicuous.

MANUFACTURER'S INSTRUCTIONS: Whenever products are required to be installed and/or perform in accordance with a specified manufacturer's instruction or procedure, procure, distribute and maintain at the site copies of such information. No allowance or consideration will be made for claimed ignorance as to what a cited standard contains, as each tradesman is considered to be experienced and familiar with the published standards of quality and workmanship for his own trade.

THE OWNER RESERVES THE RIGHT TO REJECT PRODUCT WARRANTIES that in the opinion of the Owner tend to detract from, or confuse interpretation, of the requirements of the Contract Documents.

STORE PRODUCTS in accordance with manufacturer's instructions, maintaining sensitive materials within temperatures and humidity ranges required by the manufacturer. For exterior storage of fabricated products, place on sloped supports above ground. Cover products subject to deterioration with impervious sheet covering; with ventilation to avoid condensation. Arrange storage to provide access for inspection.

GENERAL EXECUTION REQUIREMENTS

INSTALLER'S INSPECTION OF SUBSTRATE CONDITIONS: Before installation, inspect substrate material and the conditions under which the Work will be performed. Do not proceed with installation until unsatisfactory conditions have been corrected. Application of a material or equipment item to work installed by others constitutes acceptance of that Work and assumption of responsibility for satisfactory installation. Inspect each item of material or equipment immediately prior to installation. Reject damaged and defective items.

PERFORM INSTALLATION WORK by persons qualified to produce workmanship of specified quality, in accordance with manufacturer's printed installation recommendations and requirements. Install Work during conditions of temperature, humidity, exposure, forecasted weather, and status of the project completion which will ensure the best possible results for each unit of work.

PROVIDE ATTACHMENT AND CONNECTION devices and methods for securing the work properly as it is installed, true to line and level. Provide uniform joint widths in exposed work, organized for best possible visual effect. Refer questionable visual-effect choices to the Architect for final decision. Isolate each unit of work from non-compatible work, as required to prevent deterioration. Make allowance for expansion, contraction, and building movements. Coordinate closing-in of work with required inspections and tests, so as to minimize the necessity of uncovering completed work.

AFTER INSTALLATION, provide coverings to protect installed products from damage from traffic and construction operations, remove when no longer required. Repair and replace damaged items, at no additional cost to the Owner. Additional time required to secure replacements and to make repairs will not be considered as justification for an extension of time to complete the Work.

FINAL CLEANING: just before owner occupancy, clean all surfaces including fixtures and equipment. Polish glass and plumbing fixtures to be without noticeable streaks. Vacuum clean floors and damp wipe walls, fixtures and equipment to be dust-free without stains, films and other distracting substances.

CLEAN THE PROJECT SITE of rubbish, litter and other foreign substances. Broom clean paved areas and remove stains, spills and other foreign deposits. Rake grounds that are neither paved nor planted, to a smooth even-textured surface.

SECTION 01 11 00 SUMMARY OF WORK (TENANT FINISH)

THE WORK consists in general of interior tenant-finish construction in an existing tenant space as indicated in the Drawings. Perform all work required for completion of the Project, except as otherwise indicated in the Responsibility Schedule included in the Drawings, and provide the following:

CODES & ORDINANCES: All Work for this project shall conform to all applicable codes, and ordinances and with applicable requirements of the National Fire Protection Association's "Life Safety Code".

COSTS FOR ALL PERMITS, utility hook-up charges, and related expenses shall be included in the Work of the Contract.

CONTRACT TYPE: The Work will be constructed under a single (prime) general construction contract.

COMPLY WITH LANDLORD REQUIREMENTS regarding Construction activities, and pay for construction damage deposit if required. The amount of the deposit will be considered an overhead expense of the Contractor, and is not to be considered as a cost of the Work.

CONTRACTOR'S USE OF PREMISES:

USE OF EXISTING BUILDING: Limit construction activities to occur within the Project Site, or within other areas designated or approved for use by the Owner or Landlord. If not within the project site, make connections to existing utilities in the most expeditious manner possible. Perform the Work so that it will not interfere with adjacent facilities.

MAINTAIN THE EXISTING BUILDING in a safe and weather tight condition throughout the construction period. Do not install combustible materials above finished ceilings or in any other concealed spaces. Repair damage caused by construction operations. Take all precautions necessary to protect the building and its occupants during the construction period. Keep public areas such as hallways, stairs, and existing toilet rooms free from accumulation of waste material, rubbish or construction debris.

PROJECT COORDINATION & ADMINISTRATION:

THE INTENT OF THE CONSTRUCTION DOCUMENTS is to include all items required for completion of the Work. Although the Drawings have been prepared with due care and diligence, design and construction is complex. Consequently, the Drawings are often diagrammatic - every potential condition or contingency cannot be anticipated or fully indicated, and all components required for complete installation may not be fully indicated.

SCHEDULE AND COORDINATE THE WORK of the complete Project, including preparation of general coordination drawings, schedules, and control of site utilization, from beginning of construction activities through project close-out.

COORDINATE THE WORK of the various Sections to assure an efficient and orderly sequence of installation of construction elements, with provisions for accommodating items to be installed later. Coordinate space requirements and installation of mechanical and electrical Work which are indicated diagrammatically on the Drawings. Follow routing shown for pipes, ducts, and conduits, as closely as practical; make runs parallel with lines of the building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs. Conceal pipes, conduits and similar elements whenever possible within the new construction, in finished areas.

PRE-CONSTRUCTION MEETING: Meet with the Landlord's designated construction representative before starting construction. Discuss procedures and requirements for site access, work hours, parking, deliveries and receiving, debris and waste receptacles, temporary barricade, and construction operations that may be offensive.

MAINTENANCE OF CONSTRUCTION DOCUMENTS: Maintain at the Project Site a "Record Set" of Construction Documents. In addition, maintain copies of the following related drawings or documents prepared by others:

Construction Requirements of the Landlord (when applicable)
Casework shop drawings prepared by the Casework fabricator
Signage shop drawings prepared by the Signage Contractor, and
Sprinkler shop drawings (when applicable)
DO NOT construct or install any portion of the Work related to these drawings at any time without such drawings being available at the site.

MARK REVISIONS made during construction on the Record Set of Documents with colored pencil - do not conceal any Work before revisions have been recorded. Note actual routing of under-slab plumbing and utility lines, if different from design drawings.

SECTION 01 23 00 - ALTERNATIVES

PROVIDE alternative bid proposals to be added to or deducted from the amount of the Base Bid if the corresponding change in scope is accepted by the Owner, in accordance with requirements listed herein. Include within the alternative bid all costs, including materials, labor, equipment and fees required to complete the work item.

COORDINATE related Work and modify or adjust adjacent Work as necessary to ensure that Work affected by each accepted alternate is complete and fully integrated into the Project. Immediately following Contract award, prepare and distribute to each party involved, notification of the status of each alternate. Indicate whether alternates have been accepted, rejected or deferred for consideration at a later date. Include a complete description of negotiated modifications to alternates. Include as part of each alternate, miscellaneous devices, accessory objects and similar items incidental to or required for a complete installation whether or not mentioned as part of the alternate.

ALTERNATE NO. 1: PROVIDE PERFORMANCE & LABOR/MATERIAL PAYMENT BONDS: Furnish bonds covering faithful performance of the Contract and payment of obligations arising thereunder. Bonds may be obtained through usual sources and the cost thereof shall be included in the Contract Sum. The amount of each bond shall be equal to one hundred percent (100 %) of the Contract Sum. Deliver bonds to the Owner not later than three days following the date the Agreement is entered into, or if the Work is to be commenced prior thereto in response to a letter of intent, the Contractor shall, prior to the commencement of the Work, submit evidence satisfactory to the Owner that such bonds will be furnished."

SECTION 01 26 13 - REQUESTS FOR INTERPRETATIONS (RFI'S)

SUBMIT REQUEST FOR INTERPRETATION (RFI's) after review of the Contract Documents and the field conditions immediately on discovery of the need for a clarification. Include a detailed description of problem encountered, together with recommendations for changing the Contract Documents. Submit requests on CSI Form 13.2A - "Request for Interpretation" or equivalent form approved for use in advance by the Architect. Submit RFI's only from the Contractor - RFI's from subcontractors or suppliers must be forwarded to, reviewed by, approved by, and submitted directly from the Contractor.

SUBMIT RFI'S ONLY AFTER a thorough review of ALL applicable Contract Documents and the field-conditions, and ONLY if the Contractor is still not able to resolve the problem or clarify the issue based on the information contained therein.

RESPONSIBILITY FOR ADDITIONAL COSTS: If the information requested by the Contractor is apparent from field observations, or is in fact contained within the Contract Documents, or is reasonably inferable from either, the Contractor will be responsible to the Owner for all reasonable costs expended by the Architect and/or the professional Consultants for the Additional Services required to provide such information.

RESPONSE TO RFI'S IS NOT AN AUTHORIZATION to proceed with additional or extra Work.

SECTION 01 29 00 - PAYMENT PROCEDURES

15 DAYS (MINIMUM) PRIOR TO SUBMITTAL OF THE INITIAL APPLICATION FOR PAYMENT, the following items shall be submitted: (1) listing of subcontractors and principal suppliers and fabricators, (2) the progress schedule, (3) preliminary schedule of values, (4) performance and/or payment bonds, if required, and (5) copies of acquired building permits for performance of the Work.

SCHEDULE OF VALUES: Provide a breakdown of the Contract Sum, as required by the General Conditions. Coordinate preparation and correlate line item breakdown with Specification Sections, and as required to facilitate continued evaluation of payment requests and progress reports. Break down principal subcontract amounts into several line items, to the approval of the Owner and/or Architect. Provide a separate line-item for each allowance, or for each unit-cost allowance as a product of the unit cost multiplied by the measured quantity. Indicate temporary facilities or other major cost items that are not a direct cost of actual work-in-place as separate line items. Show overhead and profit as a separate line item amount - to facilitate review of lien-waivers from sub-contractors and material suppliers. Round-off individual amounts to the nearest whole dollar, but with the total equal to the Contract Sum. Arrange the schedule with columns to indicate the generic name of the item, related specification sections, the subcontractor supplier, manufacturer or fabricator, change orders (numbers) which have affected the value, the dollar value of the item, and the percentage of the Contract Sum to the nearest one-hundredth percent and adjusted to total 100 percent.

PRIOR TO INITIAL PAYMENT APPLICATION SUBMITTAL, the following are required:
List of subcontractors.
List of material suppliers.
Schedule of Values.
Contractor's Construction Schedule.
Products list.
Schedule of unit prices.
Submittals Schedule.
List of Contractor's staff assignments, and principal consultants.
Copies of all applicable building permits (except for those obtained directly by the Owner)
Copies of authorizations and licenses from authorities having jurisdiction for performance of the Work.
Initial progress report.
Report of preconstruction conference.
Certificates of Insurance (AIA G705) and evidence that Contractor's insurance has been secured.
Performance and payment bonds (if required).

APPLICATIONS FOR PAYMENTS: Use AIA Document G702 and AIA Document G703 Continuation Sheets or an equivalent document approved in advance. Complete every entry on the form, matching data on the Schedule of Values and correlated with the Contractor's Construction Schedule - using updated schedules if revisions have been approved. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Each Application shall be consistent with previous applications. Initial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements. Include amounts of Change Orders and Construction Change Directives as separate line-items.
TIMING: Unless otherwise noted in the Agreement Form, the required date for submittal will be the tenth (10th) day of each month.

TIME PERIOD: Unless otherwise noted in the Agreement Form, the time-period covered by each Application for Payment starts on the first (1st) day of a month and ends on the last day of the same month.

SUBMIT an email and deliver THREE (3) notarized originals for receipt within 24 hours of the email ATTACHMENTS: Include a transmittal letter listing attachment and appropriate information regarding the Application, with an updated Schedule-of-Values and Construction Progress Schedule (if applicable) and partial lien-waivers (if required by Owner).

PAYMENT APPLICATION AT SUBSTANTIAL COMPLETION: After the Certificate of Substantial Completion is issued, submit an Application for Payment showing 100 percent completion. Provide a copy of the Certificate of Occupancy from the applicable AHJ indicating that the Project can be occupied by the Owner, and a current accounting statement showing all changes to the Contract Sum.

INCLUDE WITH THE FINAL PAYMENT APPLICATION the following:
Unconditional lien-releases for all subcontractors and material suppliers
Evidence of completion of Project close-out requirements.
Insurance certificates for products and completed operations
Proof that all taxes, fees, and similar obligations were paid.
Updated final statement, accounting for final changes to the Contract Sum.
AIA Document G706, "Contractor's Affidavit of Payment of Debts and Claims."
AIA Document G706A, "Contractor's Affidavit of Release of Liens."
AIA Document G707, "Consent of Surety to Final Payment." (If Bonds are provided)
Evidence that claims have been settled.
Final meter readings for utilities, a measured record of stored fuel, and similar data as of date of Substantial Completion or when Owner took possession of and assumed responsibility for corresponding elements of the Work.
Final, liquidated damages settlement statement.

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SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES

PROVIDE SCREW-TYPE GYPSUM DRYWALL WITH METAL FRAMING SYSTEM(S) WHERE INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN, AND AS NEEDED TO MEET THE REQUIREMENTS OF THE CONSTRUCTION SHOWN IN THE CONTRACT DOCUMENTS.

METAL STUD FRAMING: PROVIDE ASTM C 445 metal studs of 0.015 minimum steel thickness with double-helix ribbing (dieflich ultrasteel) or 0.0179 inch thickness (25 gage) for typical flat-sheet steel units x 3-5/8" depth unless otherwise noted. Provide runners matching studs, of type recommended by stud manufacturer for floor and ceiling support of studs, and for vertical abutment of drywall work at other work.

TOP-OF-WALL DEFLECTION TRACK: provide deflection track assembly at all interior partitions to prevent compression of stud framing or cracking of gypsum board resulting from deflection of the structure above. Provide astm c 445 steel-sheet top steel units of base metal thickness matching stud thickness with minimum 2-inch deep flange legs or other equivalent system.

TYPICAL GYPSUM WALLBOARD: ASTM C 1396 compliant type x (fire resistant) with tapered long edges, 5/8" thickness, except where otherwise indicated, in maximum length available which will minimize end joints.

WATER-RESISTANT GLASS-MAT GYPSUM BACKING BOARD (BEHIND ALL WALL TILE AND TILE BASE): 5/8" thick "denshield" fireguard by georgia-pacific in 4 foot wide panels by maximum length possible, complying with astm c 1396 and mold-resistant per astm d 3273, with glass mats both sides and tapered on long edges, with water-resistant treated core. Provide type s-12, bugle head, self-tapping, rust-resistant, fine thread panel anchors.

JOINT TREATMENT AT WATER-RESISTANT BACKING BOARD: "dow corning" 795, "becora" 895, "ge" silicone sliturf sealant, or "tremco" dynamic joint sealer with 2" wide 10 x 10 glass mesh quick tape or equivalent, and finish with "g-p" gypsum setting-type joint compound

TRIM ACCESSORIES: provide manufacturer's standard trim accessories of types indicated for diywall work, formed of galvanized steel unless otherwise indicated, with either knurled and perforated or expanded flanges for nailing and beaded for concealment of flanges in joint compound. Provide corner beads, l-type edge trim-beads, u-type edge trim-beads, special l-kerf-type edge trim-beads. Stapling of trim accessories will not be permitted.

CONTROL JOINTS: provide 2 - standard l-type edge trim beads, in lieu of manufacturer's standard one-piece control joint beads.

JOINT COMPOUND: ASTM C 475; on interior work provide single, multi-purpose grade, ready-mixed vinyl-type, with perforated type paper joint tape.

GYPSUM BOARD FASTENERS: gypsum board screws: ASTM C 1002.

MISCELLANEOUS MATERIALS: provide auxiliary materials for gypsum drywall work of the type and grade recommended by the manufacturer gypsum boards.

INSTALLATION

PREPARATION FOR METAL SUPPORT SYSTEMS: coordinate work with structural ceiling work to ensure that inserts and other structural anchorage provisions have been installed to receive ceiling hangers. Furnish steel deck hanger clips and similar devices to other trades for installation well in advance of time needed for coordination with other work.

INSTALLATION OF WALL/PARTITION SUPPORT SYSTEMS: install supplementary framing, blocking and bracing to support fixtures, equipment, services, heavy trim, furnishings and similar work which cannot be adequately supported on gypsum board alone.

Isolate stud system from transfer of structural loading to system, both horizontally and vertically. Provide slip or cushioned type joints to attain lateral support and avoid axial loading. Install runner tracks at floors, ceilings and structural walls and columns where gypsum drywall stud system abuts other work, except as otherwise indicated. Terminate partition stud system at ceilings, except where indicated to be extended to structural support or substrate above.

Space studs 16" o.c., except as otherwise indicated. Provide runner tracks of same material thickness as jamb studs. Space jack studs same as partition studs.

AT DOOR OPENINGS, frame with 2 each 0.0329 inch (20 gage) studs extending to structural support above at both jambs, securely attached by screws either directly to door frames or to jamb anchor clips on door frame. Install runner track sections (for jack studs) at head and secure to jamb studs.

FRAME OPENINGS OTHER THAN DOOR OPENINGS in same manner as required for door openings; and install framing below sills of openings to match framing required above door heads.

INSTALL supplementary framing, runners, furring, blocking and bracing at opening and terminations in the work, and at locations required to support fixtures, equipment, services, heavy trim, furnishings and similar work which cannot be adequately supported directly on gypsum board alone.

INSTALL exterior gypsum sheathing in accordance with manufacturer's instructions and applicable instructions in g-263 and ASTM c 1280, with "gold" side out. Use maximum lengths possible to minimize number of joints. Attach sheathing to metal framing with screws spaced 8" o.c. at perimeter where there are framing supports; and 8" o.c. along intermediate framing in field. Drive fasteners to bear tight against and flush with surface of sheathing. Do not countersink. Locate fasteners minimum 3/8" from edges and ends of sheathing panels. Seal all fasteners and all joints with sealant, and apply reinforcing mesh over all joints with additional sealant applied over mesh.

GENERAL GYPSUM BOARD INSTALLATION REQUIREMENTS:

INSTALL insulation where indicated, prior to gypsum board unless readily installed after board has been installed. Locate exposed end-butt joints as far from center of walls and ceilings as possible, and stagger not less than 1'-0" in alternate courses of board. Install ceiling boards in the direction and manner which will minimize the number of end-butt joints, and which will avoid end joints in the central area of each ceiling. Stagger end joints at least 1'-0".

INSTALL WALL/PARTITION BOARDS vertically to avoid end-butt joints wherever possible. At stairwells and similar high walls, install boards horizontally with end joints staggered over studs.

INSTALL EXPOSED GYPSUM BOARD WITH FACE SIDE OUT. Do not install imperfect, damaged or damp boards. Butt boards together for a light contact at edges and ends with not more than 1/16" open space between boards. Do not force into place.

LOCATE either edge or end joints over supports, except in horizontal applications or where intermediate supports or gypsum board black-blocking is provided behind end joints. Position boards so that both tapered edge joints abut, and mill-cut or field-cut end joints abut. Do not place tapered edges against cut edges or ends. Stagger vertical joints over different studs on opposite sides of partitions.

ATTACH gypsum board to framing and blocking as required for additional support at openings and cutouts. Form control joints and expansion joints with space between edges of boards, prepared to receive trim accessories. Cover both faces of steel stud partition framing with gypsum board in concealed spaces (above ceilings, etc.), except in chase walls which are properly braced internally.

Isolate perimeter of non-load-bearing drywall partitions at structural abutments. Provide 1/4" to 1/2" space and trim edge with j-type semi-finishing edge trim. Seal joints with acoustical sealant. Do not fasten drywall directly to stud system runner tracks.

Space fasteners in gypsum boards in accordance with referenced standards and manufacturer's recommendations. On partitions/walls apply gypsum board vertically (parallel), unless otherwise indicated, and provide sheet lengths which will minimize end joints. Fasten gypsum board supports with screws.

DIRECT-BONDING TO SUBSTRATE: where necessary to install gypsum board adhered directly to a substrate (other than studs, joints, furring members or base layer of gypsum board), comply with gypsum board manufacturers recommendations, and temporarily brace or fasten gypsum board until fastening adhesive has set.

INSTALLATION of drywall trim accessories: where feasible, use the same fasteners to anchor trim accessory flanges as required to fasten gypsum board to the supports. Otherwise, fasten flanges by nailing in accordance with manufacturer's instructions and recommendations. Install metal corner beads at external corners of drywall work.

INSTALL METAL EDGE TRIM whenever edge of gypsum board would otherwise be exposed or semi-exposed. Provide type with face flange to receive joint compound. Install l-type trim where work is tightly abutted to other work, and install special kerf-type where other work is kerfed to receive long leg of l-type trim. Install u-type where edge is exposed, revealed, gasketed, or sealant-filled (including expansion joints).

INSTALL METAL CONTROL JOINTS above both sides of all door frames, and as otherwise required not to exceed a 30'-0" maximum uninterrupted surface.

INSTALLATION OF DRYWALL FINISHING: apply treatment of gypsum board joints (both directions), flanges of trim accessories, penetrations, fasteners heads, surface defects and elsewhere as required to prepare work for decoration. Prefill open joints and rounded or beveled edges, using type of compound recommended by manufacturer. Apply joint tape at joints between gypsum boards, except where a trim accessory is indicated. Apply joint compound in three (3) coats (not including prefill of openings in base), and sand between last two (2) coats and after last coat. At water-resistant gypsum board base for ceramic tile, tape and finish joints with two (2) coats water-resistant joint material.

PARTIAL FINISHING: omit third coat (if specified) and sanding on concealed drywall work which is indicated for drywall finishing or which requires finishing to achieve fire resistance rating, sound rating or to act as air or smoke barrier. Refer to sections on painting, coating and wall-coverings in division 9 for decorative finishes to be applied to drywall work.

FINISH GYPSUM BOARD TO LEVELS INDICATED BELOW, ACCORDING TO ASTM C 840, FOR LOCATIONS INDICATED:

LEVEL 1 FINISH (TYPICAL AT CONCEALED AREAS): EMBED TAPE AT JOINTS IN CEILING PLENUM OR OTHER CONCEALED AREAS

LEVEL 4: (TYPICAL EXPOSED GYPSUM-BOARD FINISH): EMBED TAPE AND APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES AT PANEL SURFACES THAT WILL BE EXPOSED TO VIEW, UNLESS OTHERWISE INDICATED. FINISH WATER-RESISTANT, GLASS-MAT GYPSUM BACKING BOARD TO COMPLY WITH GYPSUM BOARD MANUFACTURER'S DIRECTIONS

PROTECTION OF WORK: installer shall advise contractor of required procedures for protecting gypsum drywall work from damage and deterioration during remainder of construction period.

SECTION 09 91 00 - PAINTING

WORK INCLUDES surface preparation and painting or finishing of interior exposed to view, throughout the Project and in accordance with requirements herein. Except where a natural finish or a material is specifically noted as a surface not to be painted, paint all exposed surfaces whether or not painting is designated in the drawings. Where items or surfaces are not specifically mentioned, paint the same as similar adjacent materials or areas.

PAINTING-NOT REQUIRED: Unless otherwise indicated, painting is not required on plastic laminate, prefinished sheet metal, plumbing fixtures, electrical equipment (excluding exposed distribution cabinet(s) or electrical devices. Painting is not required on surfaces such as walls or ceilings in concealed or inaccessible areas. Metal surfaces of anodized aluminum, stainless steel, chromium plate and similar finished materials will not require finish painting, except as otherwise indicated in the finish hardware schedule. Do not paint over code-required labels or equipment identification labels.

PROVIDE PRIMERS and undercoat paints produced by the same manufacturer as the finish coats. Use only thinners approved by paint manufacturer, and use only within recommended limits.

PREPARE surfaces and apply coatings in strict accordance with the coating manufacturer's recommendations.

USE ONLY SKILLED painters for mixing and applying paint. Quality workmanship is required. In the acceptance or rejection of finish painting, no allowance will be made for the painters' lack of skill or inadequate lighting during painting operations.

JOB CONDITIONS: Apply paints only when temperature of surfaces to be painted and surrounding air temperatures are within recommended range permitted by the paint manufacturer's printed instructions. Do not apply paint when relative humidity exceeds 85%, or to damp or wet surfaces.

PRODUCT STANDARDS & QUALITY: Comply with Master Painters Institute (MPI) standards indicated and provide products as listed in "MPI Approved Products List" available at www.paintinfo.com. Provide best quality grade of various types of coatings indicated as regularly manufactured by listed paint materials manufacturers. Materials not displaying manufacturers identification as a standard, best-grade product will not be acceptable.

SURFACE PREPARATION: Clean surfaces of dirt, rust, scale, grease, moisture, or other conditions otherwise detrimental to formation of a durable paint film. Perform preparation and cleaning procedures in accordance with paint manufacturer's printed instructions for each particular substrate condition.

REMOVE hardware, accessories, plates, lighting fixtures, and similar items in place and not to be finish-painted, or provide surface-applied protection prior to surface preparation and painting operations. Remove, if necessary, for complete painting of items and adjacent surfaces. Following completion of painting of each space or area, reinstall removed items.

CLEAN NONGALVANIZED FERROUS-METAL SURFACES that have not been shop coated; remove oil, grease, dirt, loose mill scale, and other foreign substances. Use solvent or mechanical cleaning methods that comply with recommendations of the Steel Structures Painting Council.

TOUCH UP SHOP-APPLIED PRIME COATS that have been damaged. Wire-brush, clean with solvents recommended by the paint manufacturer, and touch up with the same primer as the shop coat.

MATERIALS PREPARATION: Carefully mix and prepare paint materials in accordance with manufacturer's directions. Maintain containers used in mixing and application of paint in a clean condition, free of foreign materials and residue. Stir material before application to produce a mixture of uniform density; stir as required during application. Do not stir surface film into material. Remove film and, if necessary, strain material before using. Use only thinners approved by the paint manufacturer, and only within recommended limits.

APPLICATION: Apply paint in accordance with manufacturer's directions. Use applicators and techniques best suited for substrate and type of material being applied. Use applicators and techniques best suited for substrate and type of material being applied. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.

SCHEDULING: Apply first-coat material to surfaces that have been cleaned, pretreated or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration. Allow sufficient time between successive coatings to permit proper drying. Do not recoat until paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure, and application of another coat of paint does not cause lifting or loss of adhesion of the undercoat.

APPLY PAINT to completely cover previously painted surfaces, to provide an opaque, smooth surface of uniform finish, color, appearance and coverage. Cloudiness, spotting, holidays, lap marks, brush marks, runs, sags, ropiness or other surface imperfections will not be acceptable.

THE NUMBER OF COATS and film thickness required is the same regardless of the application method. Do not apply succeeding coats until the previous coat has cured as recommended by the manufacturer. Sand between applications where sanding is required to produce an even smooth surface in accordance with the manufacturer's directions.

APPLY ADDITIONAL PAINT coats when undercoats, stains or other conditions show through final coat of paint, until paint film is of uniform finish, color and appearance. Give special attention to insure that surfaces, including edges, corners, crevices, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.

MINIMUM COATING THICKNESS: Apply materials at not less than the manufacturer's recommended spreading rate. Provide a total dry film thickness of the entire system as recommended by the manufacturer.

PRIME COATS: Before application of finish coats, apply a prime coat of material as recommended by the manufacturer to material that is required to be painted or finished and has not been prime coated by others. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to assure a finish coat with no burn through or other defects due to insufficient sealing.

FIELD QUALITY CONTROL: The Owner reserves the right to engage the services of an independent testing laboratory to sample the paint material being used. Samples of material delivered to the project may be taken, identified, sealed, and certified in the presence of the Contractor. The testing laboratory will perform appropriate tests as required by the Owner. If test results show material being used does not comply with specified requirements, the Contractor may be directed to stop painting, remove noncomplying paint, pay for testing, repaint surfaces coated with rejected paint, and remove rejected paint from previously painted surfaces if, upon repainting with specified paint, the two coatings are noncompatible.

CLEAN-UP: During the progress of the Work, remove from site discarded paint materials, rubbish, cans and rags at end of each work day. Upon completion of painting Work, clean window glass and other paint-spattered surfaces. Remove spattered paint or otherwise damage finish surfaces. Touchup and restore all damaged or defaced painted surfaces after completion of Work of other trades.

PROTECT work of other trades, whether to be painted or not, against damage by painting. Correct damage by cleaning, repairing or replacing, and repainting, as acceptable to Owner. Provide "wet paint" signs to protect newly painted finishes. Remove temporary protective wrappings provided by others for protection of their work after completion of painting operations. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

PAINT MATERIALS SCHEDULE: (RE: www.paintinfo.com <<http://www.paintinfo.com>> for MPI's "Approved Product List")

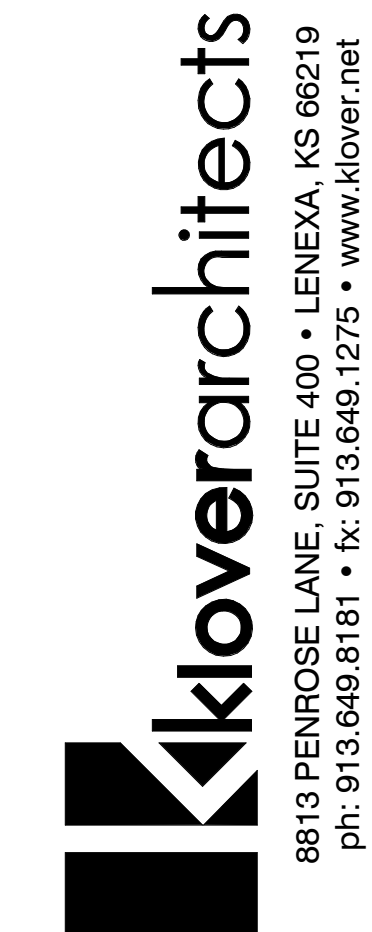
EXTERIOR PAINT FINISHES:

EXTERIOR DRYWALL SOFFITS: FLAT ACRYLIC LATEX:

Primer: MPI # 6
2 Finish Coats: MPI # 10

EXTERIOR ZINC-COATED METAL: SEMI-GLOSS ALKYD ENAMEL:

Primer: MPI # 134
2 Finish Coats: MPI # 47



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project title

RED DEVELOPMENT
SUMMIT FAIR
910 G NW Blue Pkwy
Lee's Summit, MO 64086

project number

22036.001

drawing issuance

ISSUED FOR PERMIT 06/15/23

drawing revisions

No. Description: Date:

professional seal



Date Signed JUN 15 2023

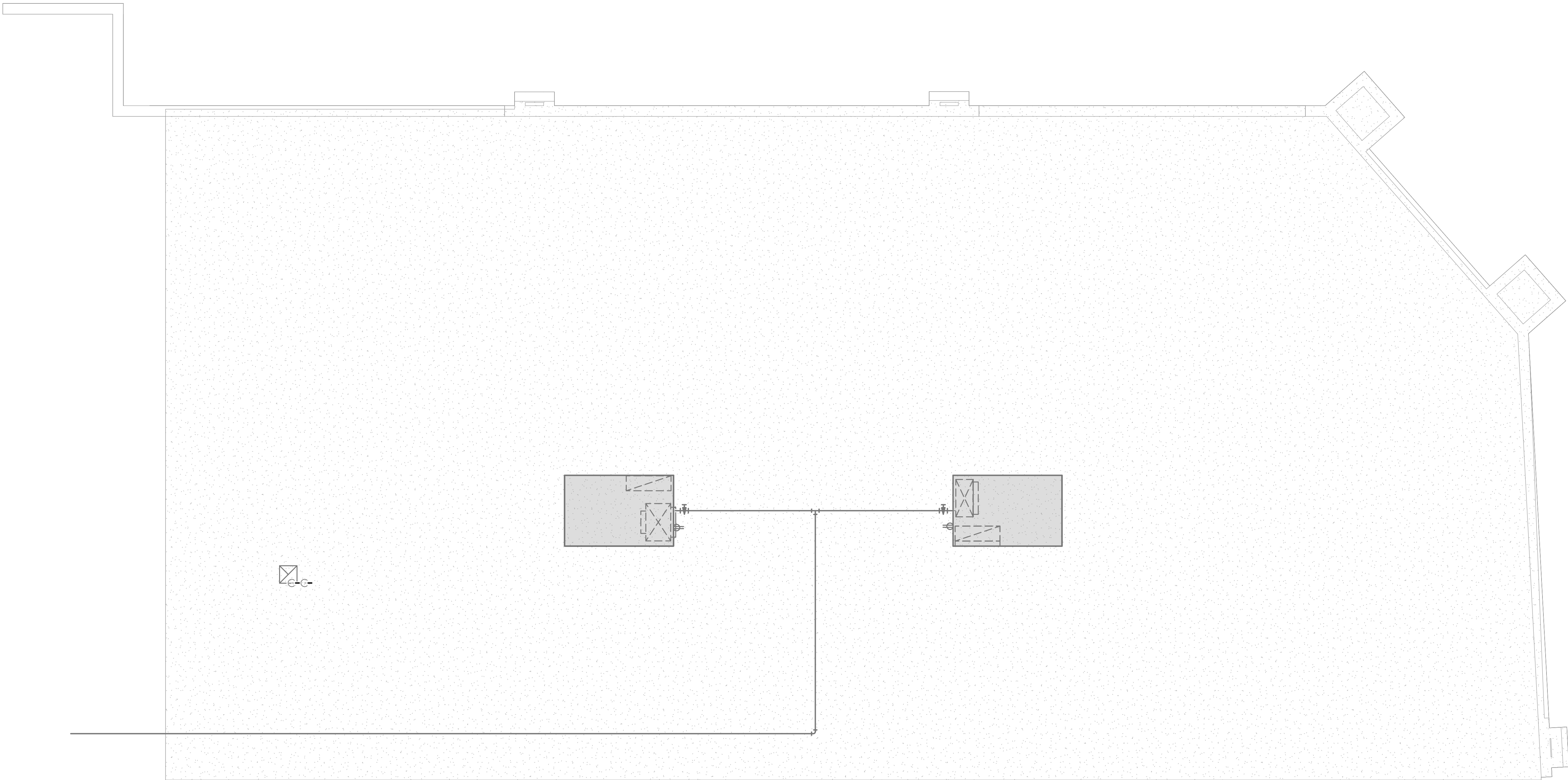
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drawing title

SPECIFICATIONS

drawing number

SP005



MECHANICAL AND ELECTRICAL ROOF PLAN

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

1

smith & boucher
engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
SBI PROJECT NUMBER: 2318400

Kloverarchitects
8813 PENROSE LANE, SUITE 400 • LENEXA, KS 66219
ph: 913.649.8181 • fx: 913.649.1275 • www.klover.net

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project title

RED DEVELOPMENT
SUMMIT FAIR
910 G NW Blue Pkwy
Lee's Summit, MO 64086

project number

Project Number

drawing issuance

Permit Set

06/14/23

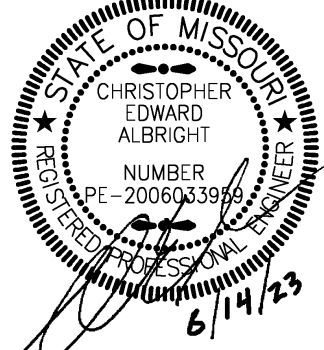
drawing revisions

No.

Description:

Date:

professional seal



DATE SIGNED: 06-14-23

drawing title

MECHANICAL AND ELECTRICAL - ROOF PLAN

drawing number

ME202

PLUMBING FIXTURE SCHEDULE									
MARK	MANUFACTURER/ MODEL	DESCRIPTION	FITTINGS		NOTES	PIPING CONNECTIONS			
			MANUFACTURER/ MODEL	DESCRIPTION		CW	HW	SAN	VENT
S-1	ELKAY LWSB252264N	ADA COMPLIANT SINGLE BOWL, UNDERMOUNT, 16 GAUGE, TYPE 304 STAINLESS STEEL, 30-1/2" X 18-1/2" X 8" DEEP, REAR CENTER DRAIN	MOEN 87912SRS	HIGH ARC SPOUT, REFLEX PULLDOWN FAUCET WITH BRAIDED HOSE, SWING FAUCET SPOUT, SINGLE HOLE FAUCET DECK MOUNTED WITHOUT PLATE.	1, 2, 3, 4	1/2"	1/2"	2"	1-1/2"

- NOTES:
- 1: PROVIDE CHROME PLATED BRASS TAILPIECE AND GRID DRAIN.
- 2: PROVIDE CHROME PLATED BRASS P-TRAP.
- 3: PROVIDE 1/4 TURN SHUT OFF VALVES AND FLEXIBLE RISERS.
- 4: INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS. COVER TAILPIECE, P-TRAP, AND ANY EXPOSED WASTE AND VENT PIPING WITH CROME COVER. REFER TO SPECIFICATIONS FOR INSULATION METHODS.

PIPING MATERIAL SCHEDULE - PLUMBING			
APPLICATION	SIZE	LOCATION	PIPE MATERIAL
DOMESTIC WATER	2" AND SMALLER	ABOVE GROUND	HARD COPPER TUBE, ASTM B88, TYPE L; CAST OR WROUGHT COPPER SOLDER-JOINT FITTINGS; AND BRAZED JOINTS. OR CPVC PIPE; CPVC SOCKET FITTINGS; AND SOLVENT-CEMENTED JOINTS. OR PEX-A PIPE AND FITTINGS (FOR USE INSIDE DWELLING UNITS ONLY; NOT INTENDED FOR BUILDING MAINS). PEX-B PIPE AND FITTINGS NOT ALLOWED.
SOIL/WASTE/VENT	ALL SIZES	BELOW GROUND	HUBLESS, CAST-IRON SOIL PIPE AND FITTINGS; HEAVY-DUTY CAST-IRON HUBLESS-PIPING COUPLINGS; AND COUPLED JOINTS. OR SOILD WALL SCHEDULE 40 PVC PIPE; PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS.
SOIL/WASTE/VENT	ALL SIZES	ABOVE GROUND	HUBLESS, CAST-IRON SOIL PIPE AND FITTINGS; HEAVY-DUTY CAST-IRON HUBLESS-PIPING COUPLINGS; AND COUPLED JOINTS. OR SOILD WALL SCHEDULE 40 PVC PIPE; PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS. PVC SHALL NOT BE INSTALLED WITHIN RETURN AIR PLENUMS UNLESS FULLY ENCAPSULATED WITH PLENUM RATED MATERIAL.

PIPE INSULATION SCHEDULE - PLUMBING		
SERVICE	PIPE SIZE	INSULATION
DOMESTIC COLD WATER	1/2" - 2"	1/2" FIBERGLASS, ASJ
DOMESTIC HOT WATER	ALL	1" FIBERGLASS, ASJ
RECIRCULATING HOT WATER		
TEMPERED WATER		

Kloverarchitects

8813 PENROSE LANE, SUITE 400 • LENEXA, KS 66219
ph: 913.649.8181 • fx: 913.649.1275 • www.klover.net

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project title

RED DEVELOPMENT
SUMMIT FAIR
910 G NW Blue Pkwy
Lee's Summit, MO 64086

project number

Project Number

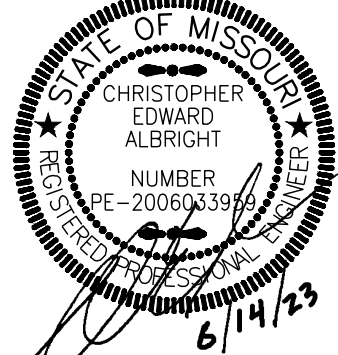
drawing issuance

Permit Set 06/14/23

drawing revisions

No. Description: Date:

professional seal



DATE SIGNED: 06/14/2023

drawing title

MECHANICAL AND ELECTRICAL -
SCHEDULES AND DETAILS

drawing number

ME301

smith & boucher

engineers

25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
project number 2318400

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PART 1 - GENERAL REQUIREMENTS - HVAC AND PLUMBING

1.1 SUMMARY OF WORK

- A. THE CONTRACT DOCUMENTS REQUIRE THE FURNISHING AND INSTALLING OF COMPLETE FUNCTIONING MECHANICAL SYSTEMS, AND EACH ELEMENT THEREOF, AS SPECIFIED OR INDICATED IN THE CONTRACT DOCUMENTS OR REASONABLY INFERRED, TO COMPLETELY CONSTRUCT AND LEAVE READY FOR OPERATION THE SYSTEMS AS SHOWN ON THE DRAWINGS AND HEREIN DESCRIBED, INCLUDING EVERY ARTICLE, DEVICE OR ACCESSORY, WHETHER OR NOT SPECIFICALLY CALLED FOR BY ITEM. ELEMENTS OF THE WORK INCLUDE MATERIALS, LABOR, SUPERVISION, SUPPLIES, EQUIPMENT, TRANSPORTATION, AND UTILITIES.
- B. SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND WHAT IS CALLED FOR IN ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH.
- C. ALL WORK PERFORMED UNDER THIS SECTION SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER BY EXPERIENCED MECHANICS OF THE PROPER TRADE.

1.2 COORDINATION, MEASUREMENTS AND LAYOUTS

- A. THE CONTRACTOR SHALL INSPECT THE SITE WHERE THIS WORK IS TO BE PERFORMED AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS RELATED TO THIS PROJECT.
- B. THE CONTRACTOR SHALL EMPLOY A COMPETENT FOREMAN ON THE JOB TO SEE THAT WORK IS DONE IN ACCORDANCE WITH THE BEST PRACTICES AND IN A SATISFACTORY AND WORKMANLIKE MANNER. THE FOREMAN SHALL KEEP INFORMED AS TO THE WORK OF OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT, AND SHALL EXECUTE HIS WORK IN SUCH A MANNER AS NOT TO INTERFERE WITH OR DELAY THE WORK OF OTHER TRADES.
- C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. WHERE LOCAL CONDITIONS NECESSITATE A REARRANGEMENT, THE CONTRACTOR SHALL PREPARE, AND SUBMIT FOR APPROVAL, DRAWINGS OF THE PROPOSED REARRANGEMENT. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING ALL OF HIS WORK AND SHALL ARRANGE SUCH WORK ACCORDINGLY, FURNISHING SUCH OFFSETS, FITTINGS AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSION.

1.3 PERMITS AND FEES

- A. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES AND SHALL MAKE ALL DEPOSITS AND PAY ALL FEES REQUIRED FOR THE PERFORMANCE OF WORK UNDER THIS SECTION, OTHER THAN THOSE DEPOSITS OR FEES WHICH ARE FULLY REFUNDABLE TO THE OWNER.

1.4 SUBMITTALS, MATERIALS AND EQUIPMENT

- A. ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE SPECIFIED HEREIN, FREE FROM DEFECTS AND OF THE BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE.
- B. AS SOON AS POSSIBLE AFTER THE AWARD OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT FOR REVIEW SIX COPIES OF SHOP DRAWINGS FOR ALL EQUIPMENT TO BE FURNISHED FOR THIS PROJECT. SUBMITTALS SHALL INCLUDE MANUFACTURER'S NAME, MODEL NUMBER, DESCRIPTIVE ENGINEERING DATA AND ALL NECESSARY INFORMATION AS TO FINISH, MATERIAL GAUGES AND ACCESSORIES. AFTER SUCH SHOP DRAWINGS ARE PROCESSED, THREE COPIES WILL BE RETURNED TO THE CONTRACTOR. THE CONTRACTOR SHALL, UPON RECEIPT OF REVIEWED SHOP DRAWINGS PROCEED WITH THE PROCUREMENT AND INSTALLATION OF SUCH EQUIPMENT.

1.5 CODES, LAWS, AND STANDARDS

- A. ALL WORK SHALL BE INSTALLED IN COMPLIANCE WITH ALL GOVERNING CODES, APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES OR STATUTES OF REGULATORY BODIES HAVING JURISDICTION. THE WORK SHALL BE EXECUTED IN ACCORDANCE WITH SAID LAWS, REGULATIONS, ORDINANCES, STATUTES OR CODES, WITHOUT INCREASED COST TO THE OWNER. ANY POINT IN QUESTION SHALL BE REFERRED TO THE ENGINEER FOR APPROVAL. WORK INDICATED ON THE DOCUMENTS THAT IS IN EXCESS OF CODE REQUIREMENTS SHALL NOT BE REDUCED IN QUALITY AND/OR QUANTITY.
- B. COMPLY WITH RULES AND REGULATIONS OF PUBLIC UTILITIES AND MUNICIPAL DEPARTMENTS AFFECTED BY CONNECTIONS OF SERVICES.

1.6 RECORD DOCUMENTS

- A. THIS CONTRACTOR SHALL PREPARE A COMPLETE "AS-BUILT" SET OF DRAWINGS INCORPORATING ALL CHANGES MADE DURING CONSTRUCTION. LOCATION OF UNDERGROUND PIPING SHALL BE LOCATED BY DIMENSION FROM COLUMN LINES.
- B. THIS CONTRACTOR SHALL PREPARE AND SUBMIT TO THE OWNER'S REPRESENTATIVE FIVE BOUND SETS OF OPERATING AND MAINTENANCE MANUALS INCLUDING FINAL COPIES OF EQUIPMENT SHOP DRAWINGS, MANUFACTURER'S LITERATURE FOR ALL EQUIPMENT INSTALLED ON THE PROJECT SHOWING ALL DETAILS OF EQUIPMENT, REPLACEMENT PART DATA AND MAINTENANCE AND OPERATING INSTRUCTIONS. MANUALS SHALL INCLUDE COPIES OF ALL EQUIPMENT WARRANTIES.

1.7 GUARANTEES AND WARRANTIES

- A. THE CONTRACTOR SHALL GUARANTEE COMPLETE SYSTEM OPERATION AND THAT THE MATERIAL AND EQUIPMENT FURNISHED AND INSTALLED WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS AND WILL GIVE SATISFACTORY SERVICE UNDER THE SPECIFIED OPERATING CONDITIONS. THE CONTRACTOR AGREES TO REPLACE, WITHOUT EXPENSE TO THE OWNER, ANY PART OF THE APPARATUS WHICH PROVES OR BECOMES DEFECTIVE WITHIN ONE YEAR AFTER THE SYSTEM IS ACCEPTED. NO EQUIPMENT WARRANTY OR GUARANTEE SHALL START UNTIL THE TIME OF BUILDING ACCEPTANCE.
- B. ALL WARRANTIES ISSUED BY EQUIPMENT MANUFACTURERS SHALL BE FILLED OUT IN THE OWNER'S NAME AND GIVEN TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF WORK PERFORMED UNDER THIS SECTION.

1.8 FINAL INSPECTION

- A. AFTER COMPLETION OF THE ENTIRE PROJECT THE CONTRACTOR SHALL REQUEST FINAL INSPECTION OF THIS PROJECT IN WRITTEN FORM ADDRESSED TO THE ARCHITECT ALONG WITH A STATEMENT TO THE EFFECT THAT ALL INSTALLATIONS HAVE BEEN COMPLETED, CHECKED, ADJUSTED AND BALANCED IN ACCORDANCE WITH REQUIREMENTS OF THIS PROJECT. UPON RECEIPT OF WRITTEN NOTIFICATION OF COMPLETION AND REQUEST FOR FINAL INSPECTION THE ENGINEER WILL PERFORM A FINAL INSPECTION OF THIS WORK AND, IF ALL INSTALLATIONS ARE AS REPRESENTED BY THE CONTRACTOR, THE ENGINEER WILL SUBMIT WRITTEN RECOMMENDATION OF ACCEPTANCE.

1.9 CLEANING

- A. DIRT AND REFUSE RESULTING FROM THE PERFORMANCE OF THE WORK SHALL BE REMOVED TO KEEP THE PREMISES REASONABLE CLEAN AT ALL TIMES.
- B. AFTER COMPLETION OF THE WORK DESCRIBED IN THIS SPECIFICATION AND SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED SURFACES AND EQUIPMENT, REMOVE ALL DIRT, DEBRIS, CRATING, CARTONS, ETC., AND LEAVE ALL INSTALLATIONS FINISHED AND READY FOR OPERATION.

1.10 OPENINGS AND SLEEVES

- A. IN FIRE RATED WALLS: CAULKING SHALL BE A PURE CERAMIC FIBER MADE OF ALUMINA-SILICA, "CERAFIBER-FS" BY JOHNS-MANVILLE. SEALANT SHALL BE GUN GRADE, AN ACRYLIC 2-PART GUN APPLIED, FIRE RETARDANT ELASTIC SEALANT, "DYMERIC" BY TREMCO OR EQUAL BY PERMATITE NO. 1113FR.
1. LIMIT THE SIZE OF THE SPACE BETWEEN THE WALL OR FLOOR AND THE OUTSIDE OF THE PIPE OR DUCT TO 1 INCH MAXIMUM. THIS SPACE IS SUFFICIENT TO ALLOW SOME MOVEMENT OF THE PIPES OR DUCT WITHOUT CRACKING THE CAULKING OR SEALANT.
2. FOR OPENINGS IN WALLS, THE CAULKING SHALL BE APPLIED TO A MINIMUM OF 3 INCH TOTAL DEPTH. SEALANT SHALL THEN BE APPLIED ON BOTH SIDES OF THE WALL OPENING A MINIMUM OF 1/2 INCH IN DEPTH, FINISHED FLUSH WITH THE WALL. D.

1.11 CUTTING AND PATCHING

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CUTTING OF WALLS, FLOORS, CEILINGS AND ROOFS REQUIRED FOR PERFORMANCE OF HIS WORK.
- B. NO STRUCTURAL MEMBER SHALL BE CUT WITHOUT PERMISSION FROM THE ARCHITECT.
- C. PATCH ALL OPENINGS TO MATCH ADJACENT CONSTRUCTION IN BOTH MATERIAL AND FINISH.
- D. ALL CUTTING OF EXISTING CONCRETE FLOORS/SLABS ON GRADE IN THE INTERIOR OF THE BUILDING SHALL BE PERFORMED BY "SAW CUTTING" AND SHALL BE PERFORMED BY THIS CONTRACTOR.

1.12 DEMOLITION AND NEW WORK

- A. THE CONTRACTOR SHALL DO ALL DEMOLITION, ALTERATIONS AND REWORK INDICATED AND/OR REQUIRED TO MAINTAIN THE OPERATION OF ALL EXISTING HVAC SYSTEMS AND TO INTEGRATE THE NEW SYSTEMS IN THE RENOVATED BUILDING AS REQUIRED. THE CONTRACTOR SHALL INCLUDE ALL WORK WHICH MAY BE REQUIRED TO ALTERATIONS AND DEMOLITION WORK. THIS SHALL INCLUDE ALL REMOVAL, RELOCATION AND REWORKING OF PIPING, ITEMS OF HVAC EQUIPMENT, ETC. EXISTING SYSTEMS AND NEW SYSTEMS SHALL BE COMPLETELY INTEGRATED AS INTENDED AND AS INDICATED ON THE PLANS AND IN THE SPECIFICATIONS.
- B. THE CONTRACTOR SHALL REMOVE FROM THE PREMISES AND DISPOSE OF PROPERLY ALL EXISTING MATERIAL AND EQUIPMENT WHICH NO LONGER SERVES A PURPOSE IN ALTERED AREAS. THE CONTRACTOR SHALL REMOVE UNUSED DUCTWORK AND PIPING. REMOVE PIPING CONNECTED TO EQUIPMENT BACK TO MAIN AND CAP. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL MAINTAIN SERVICES TO ALL EXISTING AREAS REQUIRING SUCH SERVICES. THE CONTRACTOR SHALL REROUTE AS REQUIRED SUCH SERVICES WHEN ARE DISRUPTED DUE TO ARCHITECTURAL CHANGES IN THE EXISTING STRUCTURE. ANY EQUIPMENT WHICH IS DESIGNATED TO BE REUSED AND WHICH IS DAMAGED IN THE PROCESS SHALL BE REPLACED BY THE CONTRACTOR WITH NEW EQUIPMENT OF LIKE KIND AT NO COST TO THE OWNER.

1.13 INTERRUPTION OF SERVICES

- A. THE CONTRACTOR SHALL SCHEDULE ANY SERVICE INTERRUPTIONS TO THE EXISTING BUILDING WITH THE OWNER'S REPRESENTATIVE. SUCH INTERRUPTIONS SHALL BE PLANNED SO AS TO BE AT TIMES TO CAUSE THE LEAST INCONVENIENCE AND INTERRUPTION TO THE FACILITY'S SCHEDULE.

1.14 EXISTING CONDITIONS

- ALL EXISTING CONDITIONS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS FOR THIS PROJECT HAVE BEEN DETERMINED FROM AVAILABLE DRAWINGS AND FIELD INVESTIGATIONS. CONTRACTORS MAKING PROPOSALS FOR THIS WORK SHALL INVESTIGATE ALL EXISTING CONDITIONS AND BASE THEIR PROPOSALS ON THEIR OBSERVATIONS TO PROVIDE COMPLETE AND FUNCTIONING INSTALLATIONS IN ACCORDANCE WITH THE INTENT OF THE DRAWING AND SPECIFICATIONS FOR THIS PROJECT AND ALL APPLICABLE GOVERNING CODES, RULES, REGULATIONS AND ORDINANCES. FAILURE TO DETERMINE EXISTING CONDITIONS WHICH CAUSE ADDITIONAL WORK WILL NOT CONSTITUTE GROUNDS FOR ADDITIONAL COMPENSATION.

PART 2 - HEATING, VENTILATING AND AIR CONDITIONING

2.1 GENERAL REQUIREMENTS

- A. SEE PART 1 FOR GENERAL REQUIREMENTS.

2.2 SHEET METAL DUCTWORK

- A. SHEET METAL DUCTS AND CONNECTIONS SHALL BE CONSTRUCTED OF G90 GALVANIZED SHEETS OF MILD STEEL. THE DUCTS SHALL BE CONSTRUCTED TO THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) STANDARDS. SEE PLANS FOR DUCTWORK SCHEDULE.
- B. DUCT SECTIONS SHALL BE JOINED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION AND REQUIREMENTS OF THE BUILDING CODE HAVING JURISDICTION.
- C. DUCT DIMENSIONS SHOWN ARE SHEET METAL DIMENSIONS AND DO NOT NEED TO BE ADJUSTED FOR INSULATION/LINING.
- D. CURVED ELBOWS SHALL BE CONSTRUCTED WITH INSIDE RADIUS NOT LESS THAN THE DUCT WIDTH IN THE SAME PLANE. SQUARE ELBOWS SHALL HAVE TURNING VANES. TURNING VANES SHALL BE DESIGNED IN ACCORDANCE WITH ASHRAE RECOMMENDATIONS. MANUFACTURED VANES SHALL BE BY ITTUS OR APPROVED EQUAL.
- E. CROSSBREAK ALL DUCTWORK SURFACES OVER 18 INCHES IN WIDTH.
- F. FULL AREAS SHALL BE MAINTAINED IN TRANSITIONS WHERE A CHANGE IN THE CONFIGURATION OF THE DUCT OCCURS. ALL TAPERING JOINTS SHALL BE REDUCED GRADUALLY.
- G. JOINTS IN DUCTS SHALL BE MADE PRACTICALLY AIRTIGHT AND ANY OPEN CORNER SHALL BE NEATLY PATCHED AND SOLDERED TIGHT. DUCT TAPE WILL NOT BE ACCEPTED AS A JOINT PATCH. LOW PRESSURE SYSTEM DUCT LEAKAGE SHALL NOT EXCEED 2%.
- H. CONCEALED ROUND DUCTS SHALL BE CONSTRUCTED TO SMACNA 2" W.G. STANDARDS WITH GROOVED LONGITUDINAL SEAMS AND SLEEVED TYPE TRANSVERSE JOINTS.
- I. EXPOSED ROUND DUCTS SHALL BE CONSTRUCTED TO SMACNA 10" W.G. STANDARDS, SPIRAL LOCK SEAM DUCT AND FITTINGS.

2.3 FLEXIBLE DUCT

- A. FLEXIBLE DUCTS SHALL BE UL181 CLASS THERMAFLEX M-KE, OR APPROVED EQUAL, SHALL NOT BE LONGER THAN 8 FEET AND SHALL NOT HAVE ANY AIR FLOW OBSTRUCTION.

2.4 DUCTWORK SUPPORTS

- A. ALL HORIZONTAL DUCTS SHALL BE SUPPORTED WITH HANGERS SPACED NOT MORE THAN 8'-0" APART. HANGERS FOR DUCTS SMALLER THAN 31 INCHES SHALL CONSIST OF 22 GAUGE GALVANIZED STEEL STRAPS SECURELY FASTENED TO THE DUCT AND THE BUILDING CONSTRUCTION. DUCTS OVER 31 INCHES IN WIDTH SHALL BE HUNG WITH 1/4 INCH STEEL ANGLE ON THE BOTTOM OF THE DUCT SUPPORTED WITH STEEL RODS OF APPROPRIATE SIZE SECURELY FASTENED TO THE BUILDING STRUCTURE. ALL SUPPORTS TO MEET SMACNA STANDARDS.

2.5 DUCTWORK INSULATION

- A. SEE PLANS FOR DUCTWORK INSULATION SCHEDULE. ALL INSULATED DUCTWORK SHALL BE INSULATED WITH 1-1/2 INCH THICK, 1.5 POUND PER CUBIC FOOT DENSITY, CERTAIN-TEED DUCT WRAP INSULATION FACED ON ONE SIDE WITH .002 INCH ALUMINUM FOIL WITH A 2 INCH TAB, OR EQUAL PRODUCTS BY MANVILLE, KNAUF INSULATION, OR OWENS CORNING UNLESS NOTED OTHERWISE ON THE DRAWINGS. INSULATION SHALL BE APPLIED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- B. ALL INSULATION SHALL BE UL LISTED; FLAME SPREAD/FUEL CONTRIBUTED/SMOKE DEVELOPED RATING OF 25/50/50 OR LESS IN ACCORDANCE WITH ASTM E84, NFPA 255 AND UL 723.

2.6 GRILLES, REGISTERS, DIFFUSERS AND LOUVERS

- A. FURNISH AND INSTALL ALL GRILLES, REGISTERS, DIFFUSERS AND LOUVERS AS SHOWN AND DESCRIBED ON THE DRAWINGS OR COMPARABLE PRODUCTS OF TITUS OR PRICE.
- B. THE CONTRACTOR SHALL INFORM THE GENERAL CONTRACTOR OF THE REQUIREMENTS FOR OPENING SIZES AND FRAMING FOR ALL EQUIPMENT AND SHALL COORDINATE THE INSTALLATION OF ALL SUCH EQUIPMENT WITH THE STRUCTURAL REQUIREMENTS OF THIS PROJECT.

2.7 START-UP/TESTING, ADJUSTING, BALANCING

- A. THE CONTRACTOR SHALL COMPLETE ALL EQUIPMENT INSTALLATIONS, CHECK ALL CONTROL WIRING, START UP AND ADJUST ALL EQUIPMENT AND PLACE ALL SYSTEMS IN OPERATION.
- B. AFTER COMPLETION AND START-UP OF ALL SYSTEMS THE CONTRACTOR SHALL ARRANGE FOR TESTING, ADJUSTING AND BALANCING OF ALL AIR SYSTEMS.
- C. TESTING, ADJUSTING AND BALANCING OF ALL AIR SYSTEMS SHALL BE PERFORMED IN COMPLETE ACCORDANCE WITH NEBB OR SMACNA STANDARDS.
- D. UPON COMPLETION OF TESTING, ADJUSTING AND BALANCING, A COMPLETE REPORT OF ALL FINDINGS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THIS PROJECT. THREE COPIES OF THE REPORT SHALL BE PROVIDED.

2.8 DAMPERS

- A. VOLUME BALANCING DAMPERS SHALL BE RUSKIN CD-35/CDR-25 OR APPROVED EQUAL. THE DAMPERS SHALL BE CONSTRUCTED OF 16 GAUGE GALVANIZED STEEL, 6 INCH WIDE OPPOSED BLADES AND THE LINKAGE CONCEALED IN FRAME.

2.9 PAINTING: (SEE ARCHITECTURAL SECTION "PAINTING")

- A. PAINTING, EXCEPT AS SPECIFIED HEREIN, SHALL BE DONE BY OTHERS.
- B. EQUIPMENT WHICH HAS DAMAGED FINISH SHALL BE REPAINTED TO MATCH THE ORIGINAL FACTORY FINISH.
- C. ALL EXPOSED FERROUS METAL FURNISHED UNDER THIS CONTRACT, SUCH AS HANGERS, STRUTS, STRUCTURAL STEEL, ETC., SHALL BE GIVEN ONE COAT OF TNEEC GRAY PRIMER.

PART 3 - PLUMBING

3.1 GENERAL REQUIREMENTS

- A. SEE PART 1 FOR GENERAL REQUIREMENTS.

3.2 PIPING INSTALLATION

- A. ENDS OF PIPE SHALL BE REAMED AND ALL BURRS REMOVED BEFORE INSTALLATION. PIPING SHALL BE CUT ACCURATELY TO MEASUREMENTS TAKEN ON THE JOB AND SHALL BE INSTALLED WITH AMPLE CLEARANCE FOR INSTALLATION OF COVERINGS.
- B. AT LEAST ONE PIPE UNION SHALL BE INSTALLED ADJACENT TO ALL VALVES THAT ARE SCREWED. HOT AND COLD SUPPLIES TO EACH FIXTURE AND WATER HEATER SHALL BE VALVED SEPARATELY AT THE FIXTURE. ALL SUPPLY PIPES TERMINATING AT VALVES OR FIXTURES SHALL BE PROVIDED WITH A WATER HAMMER ARRESTOR OF SUFFICIENT CAPACITY TO PREVENT WATER HAMMER.
- C. ALL HOT AND COLD WATER BRANCH LINES SHALL BE VALVED IN AN ACCESSIBLE LOCATION.

3.3 PIPING JOINTS

- A. THREADED JOINTS SHALL BE CUT FULL AND CLEAN, WITH NOT MORE THAN THREE THREADS EXPOSED BEYOND FITTINGS. JOINTS SHALL BE MADE UP TIGHT WITH GRAPHITE BASE PIPE JOINT COMPOUND APPLIED TO MALE THREADS ONLY. EXPOSED THREADS OF FERROUS PIPE SHALL BE PAINTED WITH ACID-RESISTING PAINT AFTER PIPING HAS BEEN TESTED AND PROVEN TIGHT. NO CAULKING, LAMP WICK OR OTHER MATERIAL WILL BE ALLOWED FOR CORRECTION OF DEFECTIVE JOINTS.
- B. SWEAT OR SOLDERED JOINTS IN COPPER WATER PIPING SHALL BE MADE BY THE APPROPRIATE USE OF APPROVED BRASS WATER FITTINGS PROPERLY SWEATED OR SOLDERED TOGETHER. FLARED JOINTS WHERE SPECIFIED FOR SOFT COPPER TUBING SHALL BE MADE WITH FITTINGS MEETING APPROVED STANDARDS. SURFACES TO BE SOLDERED OR SWEAT SHALL BE CLEANED BRIGHT, PROPERLY FLUXED WITH APPROVED NONCORROSIVE PASTE TYPE FLUX AND MADE WITH 95-5 OR 94-6 SOLDER. THE USE OF SELF-CLEANING FLUXES, 50-50 SOLDER OR PASTE TYPE SOLDER IS PROHIBITED. FLARED JOINTS SHALL BE MADE BY EXPANDING THE TUBE WITH A PROPER FLARING TOOL. ALL TUBES SHALL BE PROPERLY REAMED.

3.4 DOMESTIC HOT AND COLD WATER PIPING

- A. ALL DOMESTIC HOT AND COLD WATER PIPING WITHIN THE BUILDING SHALL BE COPPER. UNDERGROUND WATER SERVICE OUTSIDE OF THE BUILDING MAY BE TYPE "K" SOFT TEMPER COPPER OR DUCTILE IRON OR CAST IRON PIPE WITH SUPER BELL-TITE, MECHANICAL OR FLANGED JOINTS.
- B. COPPER PIPING INSTALLED UNDERGROUND SHALL BE SOFT TEMPER TYPE "K" AND INSTALLED WITHOUT JOINTS.
- C. ALL OTHER COPPER PIPING SHALL BE HARD TEMPER TYPE "L". ALL COPPER PIPING SHALL CONFORM TO ASTM-B-88 REQUIREMENTS. SERVICE PIPING OF CAST IRON OF DUCTILE IRON PIPE SHALL CONFORM TO USASI, AWWA AND FEDERAL SPECIFICATIONS.
- D. FITTINGS FOR USE WITH TYPE "K" AND "L" COPPER PIPING SHALL BE WROUGHT COPPER SOLDER-JOINT. UNIONS SHALL BE GROUND JOINT TYPE AND SHALL BE INSTALLED WHERE NECESSARY TO PROVIDE EASE OF DISCONNECTION OF THE PIPING SYSTEM. PRESS FITTINGS FOR COPPER WATER PIPING ARE ACCEPTABLE WHERE PERMITTED BY GOVERNING CODES.

3.5 VALVES FOR DOMESTIC WATER

- A. FOR PIPING 1/2" - 2": MILWAUKEE BA-150 BALL VALE, BRONZE, TEFLON SEATS AND PACKING, 400 LBS W.O.G., SOLDER END.

3.6 INSULATION

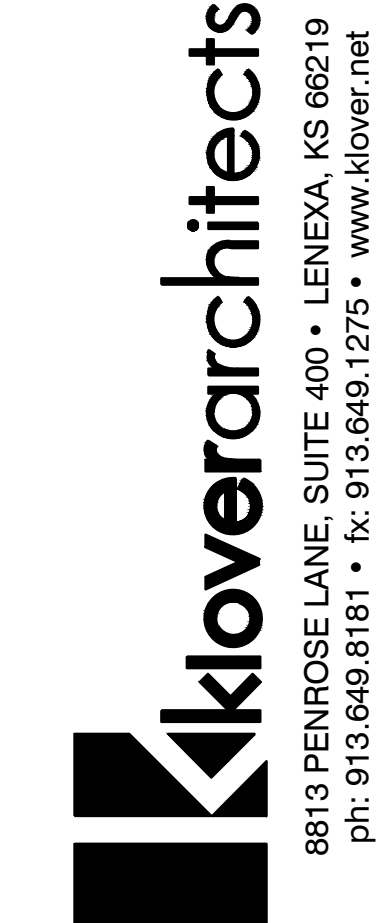
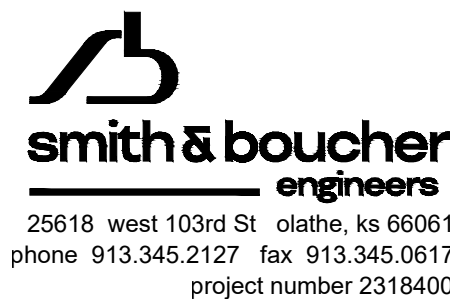
- A. ALL COLD AND HOT WATER PIPING SHALL BE INSULATED WITH CERTAIN-TEED GLASS FIBER PIPE INSULATION IN MOLDED SECTIONS WITH FACTORY APPLIED ALL SERVICE VAPOR BARRIER JACKET OR APPROVED EQUAL. THE END JOINT STRIPS AND OVERLAP SEAMS SHALL BE SEALED WITH A VAPOR BARRIER MASTIC AND STAPLED WITH OUTWARD CLINCHING STAPLES SPACED NOT TO EXCEED 4" CENTERS. STAPLES AND SEAMS SHALL BE SEALED WITH A COAT OF VAPOR BARRIER MASTIC. JOINTS SHALL BE COVERED BY JOINT TAPE.
- B. ALL PIPING SURFACES TO BE INSULATED SHALL BE CLEAN AND DRY AND PIPING SHALL HAVE BEEN TESTED AND APPROVED BEFORE THE INSULATION IS APPLIED.
- C. ALL VALVES, FITTINGS AND FLANGES SHALL BE INSULATED WITH CERTAIN-TEED GLASS FIBER PIPE INSULATION, OR APPROVED EQUAL. INSULATION SHALL BE SECURELY HELD IN PLACE AND COVERED WITH ZESTON PRE-MOLDED PVC FITTING COVERS. FITTING COVERS MAY BE PROVIDED WITH FIBERGLASS INSULATION INSERTS.
- D. ALL PIPE INSULATION SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER BY AN INSULATION CONTRACTOR REGULARLY ENGAGED IN INSULATION WORK.

3.7 PIPE HANGERS AND SUPPORTS

- A. ALL NON-INSULATED COPPER PIPING SHALL BE SUPPORTED BY ANVIL FIGURE CT65 COPPER PLATED CARBON STEEL HANGERS.
- B. NON-INSULATED STEEL PIPING 2" AND SMALLER SHALL BE SUPPORTED BY ANVIL FIGURE 108 SPLIT PIPE RING HANGER WITH FIGURE 114 TURNBUCKLE ADJUSTER. NON-INSULATED STEEL PIPING 2-1/2" AND LARGER SHALL BE SUPPORTED BY ANVIL 260 HANGERS WITH TURNBUCKLE ADJUSTERS.
- C. ALL INSULATED PIPING SHALL BE PROVIDED WITH ANVIL FIGURE 260 ADJUSTABLE CLEVIS HANGER WITH #168 SHIELD. HANGER SHALL BE INSTALLED EXTERIOR TO INSULATION UNLESS OTHERWISE NOTED OR SPECIFIED.
- D. ALL HANGERS SHALL UTILIZE THREADED RODS. NO PERFORATED STRAP IRON HANGERS OR WIRE HANGERS WILL BE ALLOWED.
- E. HANGERS AND SUPPORTS SHALL BE SPACES AS FOLLOWS:
1. COPPER PIPE: 1-1/4" AND SMALLER - 6 FEET, 1-1/2" AND LARGER - 10 FEET.
2. STEEL PIPE: 1" AND SMALLER - 8 FEET, 1-1/4" AND LARGER - 10 FEET.
- F. PROVIDE ANVIL FIGURE CT-121 RISER CLAMP FOR COPPER PIPING UP THROUGH 4". PROVIDE VERTICAL SUPPORT EVERY 10 FEET.
- G. STEEL AND CAST IRON PIPE PROVIDE ANVIL FIGURE 261 RISER CLAMP FOR PIPING 1-1/2" AND SMALLER AND FIGURE 40 RISER CLAMP FOR PIPING ABOVE 2". PROVIDE VERTICAL SUPPORT EVERY 15 FEET.

3.8 TESTING

- A. ALL PLUMBING SYSTEMS INSTALLED UNDER THIS SECTION OF THESE SPECIFICATIONS SHALL BE TESTED AND APPROVED AS HEREIN DESCRIBED AND AS REQUIRED BY THE LOCAL INSPECTION AUTHORITY HAVING JURISDICTION.
- B. THE WATER SYSTEM TEST PROCEDURE SHALL CONSIST OF CHARGING THE ENTIRE SYSTEM TO OPERATING PRESSURE AND THEN ISOLATING THE SYSTEM FROM ITS SOURCE. THE SYSTEM SHALL REMAIN CLOSED FOR A PERIOD OF 24 HOURS WITH NO FIXTURE BEING USED. THE PRESSURE DIFFERENTIAL FOR THIS 24-HOUR PERIOD SHALL NOT EXCEED 5 PSIG.
- C. THE INSPECTION AUTHORITY HAVING JURISDICTION AND THE ARCHITECT SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO PERFORMANCE OF ALL TESTS SO THAT THE TESTS MAY BE WITNESSED IF DEEMED NECESSARY.



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project title

RED DEVELOPMENT
SUMMIT FAIR
910 G NW Blue Pkwy
Lee's Summit, MO 64086

project number

Project Number

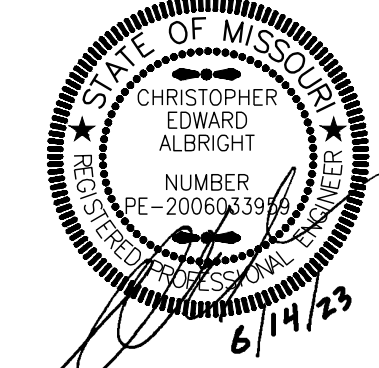
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MECHANICAL AND ELECTRICAL - SPECIFICATIONS

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PART 1 - GENERAL REQUIREMENTS - ELECTRICAL

1.1 SUMMARY OF WORK

- A. THE CONTRACT DOCUMENTS REQUIRE THE FURNISHING AND INSTALLING OF COMPLETE FUNCTIONING ELECTRICAL SYSTEMS, AND EACH ELEMENT THEREOF, AS SPECIFIED OR INDICATED IN THE CONTRACT DOCUMENTS OR REASONABLY INFERRED, TO COMPLETELY CONSTRUCT AND LEAVE READY FOR OPERATION THE SYSTEMS AS SHOWN ON THE DRAWINGS AND HEREIN DESCRIBED, INCLUDING EVERY ARTICLE, DEVICE OR ACCESSORY, WHETHER OR NOT SPECIFICALLY CALLED FOR BY ITEM. ELEMENTS OF THE WORK INCLUDE MATERIALS, LABOR, SUPERVISION, SUPPLIES, EQUIPMENT, TRANSPORTATION, AND UTILITIES.
- B. SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND WHAT IS CALLED FOR IN ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH.
- C. ALL WORK PERFORMED UNDER THIS SECTION SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER BY EXPERIENCED MECHANICS OF THE PROPER TRADE.

1.2 COORDINATION, MEASUREMENTS AND LAYOUTS

- A. THE CONTRACTOR SHALL INSPECT THE SITE WHERE THIS WORK IS TO BE PERFORMED AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS RELATED TO THIS PROJECT.
- B. THE CONTRACTOR SHALL EMPLOY A COMPETENT FOREMAN ON THE JOB TO SEE THAT WORK IS DONE IN ACCORDANCE WITH THE BEST PRACTICES AND IN A SATISFACTORY AND WORKMANLIKE MANNER. THE FOREMAN SHALL KEEP INFORMED AS TO THE WORK OF OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT, AND SHALL EXECUTE HIS WORK IN SUCH A MANNER AS NOT TO INTERFERE WITH OR DELAY THE WORK OF OTHER TRADES.
- C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. WHERE LOCAL CONDITIONS NECESSITATE A REARRANGEMENT, THE CONTRACTOR SHALL PREPARE, AND SUBMIT FOR APPROVAL, DRAWINGS OF THE PROPOSED REARRANGEMENT. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING ALL OF HIS WORK AND SHALL ARRANGE SUCH WORK ACCORDINGLY, FURNISHING SUCH OFFSETS, FITTINGS AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSION.

1.3 PERMITS AND FEES

- A. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES AND SHALL MAKE ALL DEPOSITS AND PAY ALL FEES REQUIRED FOR THE PERFORMANCE OF WORK UNDER THIS SECTION, OTHER THAN THOSE DEPOSITS OR FEES WHICH ARE FULLY REFUNDABLE TO THE OWNER.

1.4 SUBMITTALS, MATERIALS AND EQUIPMENT

- A. ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE SPECIFIED HEREIN, FREE FROM DEFECTS AND OF THE BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE.
- B. AS SOON AS POSSIBLE AFTER THE AWARD OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT FOR REVIEW SIX COPIES OF SHOP DRAWINGS FOR ALL EQUIPMENT TO BE FURNISHED FOR THIS PROJECT. SUBMITTALS SHALL INCLUDE MANUFACTURER'S NAME, MODEL NUMBER, DESCRIPTIVE ENGINEERING DATA AND ALL NECESSARY INFORMATION AS TO FINISH, MATERIAL GAUGES AND ACCESSORIES. AFTER SUCH SHOP DRAWINGS ARE PROCESSED, THREE COPIES WILL BE RETURNED TO THE CONTRACTOR. THE CONTRACTOR SHALL, UPON RECEIPT OF REVIEWED SHOP DRAWINGS PROCEED WITH THE PROCUREMENT AND INSTALLATION OF SUCH EQUIPMENT.

1.5 CODES, LAWS, AND STANDARDS

- A. ALL WORK SHALL BE INSTALLED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE NATIONAL ELECTRICAL SAFETY CODE, AND ALL GOVERNING CODES, APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES OR STATUTES OF REGULATORY BODIES HAVING JURISDICTION. THE WORK SHALL BE EXECUTED IN ACCORDANCE WITH SAID LAWS, REGULATIONS, ORDINANCES, STATUTES OR CODES, WITHOUT INCREASED COST TO THE OWNER. ANY POINT IN QUESTION SHALL BE REFERRED TO THE ENGINEER FOR APPROVAL. WORK INDICATED ON THE DOCUMENTS THAT IS IN EXCESS OF CODE REQUIREMENTS SHALL NOT BE REDUCED IN QUALITY AND/OR QUANTITY.
- B. COMPLY WITH RULES AND REGULATIONS OF PUBLIC UTILITIES AND MUNICIPAL DEPARTMENTS AFFECTED BY CONNECTIONS OF SERVICES.

1.6 RECORD DOCUMENTS

- A. THIS CONTRACTOR SHALL PREPARE A COMPLETE "AS-BUILT" SET OF DRAWINGS INCORPORATING ALL CHANGES MADE DURING CONSTRUCTION. LOCATION OF UNDERGROUND CONDUIT SHALL BE LOCATED BY DIMENSION FROM COLUMN LINES.
- B. THIS CONTRACTOR SHALL PREPARE AND SUBMIT TO THE OWNER'S REPRESENTATIVE FIVE BOUND SETS OF OPERATING AND MAINTENANCE MANUALS INCLUDING FINAL COPIES OF EQUIPMENT SHOP DRAWINGS, MANUFACTURER'S LITERATURE FOR ALL EQUIPMENT INSTALLED ON THE PROJECT SHOWING ALL DETAILS OF EQUIPMENT, REPLACEMENT PART DATA AND MAINTENANCE AND OPERATING INSTRUCTIONS. MANUALS SHALL INCLUDE COPIES OF ALL EQUIPMENT WARRANTIES.

1.7 GUARANTEES AND WARRANTIES

- A. THE CONTRACTOR SHALL GUARANTEE COMPLETE SYSTEM OPERATION AND THAT THE MATERIAL AND EQUIPMENT FURNISHED AND INSTALLED WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS AND WILL GIVE SATISFACTORY SERVICE UNDER THE SPECIFIED OPERATING CONDITIONS. THE CONTRACTOR AGREES TO REPLACE, WITHOUT EXPENSE TO THE OWNER, ANY PART OF THE APPARATUS WHICH PROVES OR BECOMES DEFECTIVE WITHIN ONE YEAR AFTER THE SYSTEM IS ACCEPTED. NO EQUIPMENT WARRANTY OR GUARANTEE SHALL START UNTIL THE TIME OF BUILDING ACCEPTANCE.
- B. ALL WARRANTIES ISSUED BY EQUIPMENT MANUFACTURERS SHALL BE FILLED OUT IN THE OWNER'S NAME AND GIVEN TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF WORK PERFORMED UNDER THIS SECTION.

1.8 FINAL INSPECTION

- A. AFTER COMPLETION OF THE ENTIRE PROJECT THE CONTRACTOR SHALL REQUEST FINAL INSPECTION OF THIS PROJECT IN WRITTEN FORM ADDRESSED TO THE ARCHITECT ALONG WITH A STATEMENT TO THE EFFECT THAT ALL INSTALLATIONS HAVE BEEN COMPLETED, CHECKED, ADJUSTED AND BALANCED IN ACCORDANCE WITH REQUIREMENTS OF THIS PROJECT. UPON RECEIPT OF WRITTEN NOTIFICATION OF COMPLETION AND REQUEST FOR FINAL INSPECTION THE ENGINEER WILL PERFORM A FINAL INSPECTION OF THIS WORK AND, IF ALL INSTALLATIONS ARE AS REPRESENTED BY THE CONTRACTOR, THE ENGINEER WILL SUBMIT WRITTEN RECOMMENDATION OF ACCEPTANCE.

1.9 CLEANING

- A. DIRT AND REFUSE RESULTING FROM THE PERFORMANCE OF THE WORK SHALL BE REMOVED TO KEEP THE PREMISES REASONABLE CLEAN AT ALL TIMES.
- B. AFTER COMPLETION OF THE WORK DESCRIBED IN THIS SPECIFICATION AND SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED SURFACES AND EQUIPMENT, REMOVE ALL DIRT, DEBRIS, CRATING, CARTONS, ETC., AND LEAVE ALL INSTALLATIONS FINISHED AND READY FOR OPERATION.

1.10 OPENINGS AND SLEEVES

- A. ALL PIPING THROUGH EXTERIOR OR FOUNDATION WALLS SHALL PASS THROUGH SCHEDULE 40 GALVANIZED STEEL SLEEVES WHICH SHALL BE LARGE ENOUGH TO ALLOW FOR PIPE SEAL MATERIAL. SLEEVES IN NEW CONSTRUCTION SHALL HAVE A MINIMUM 2 INCH WATERSTOP IN THE CENTER OF THE SLEEVE. NO SLEEVES ARE PERMITTED THROUGH CONCRETE STRUCTURAL MEMBERS.
1. SPACE BETWEEN PIPE AND SLEEVE IN EXTERIOR UNDERGROUND WALLS SHALL BE SEALED WITH LINK-SEAL, FLEXICRAFT OR METRAFLEX LINK STYLE PIPE SEALS.
2. IN ABOVE GRADE EXTERIOR WALLS PACK THE SPACE BETWEEN PIPE AND SLEEVE WITH MINERAL WOOL AND THEN COMPLETE SEAL WITH APPROVED CAULKING COMPOUND FLUSH WITH FINISHED SURFACE. PROVIDE PIPE COLLAR ON INTERIOR SIDE OF WALL.
- B. ALL PIPING THROUGH FLOORS SHALL BE PROVIDED WITH SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES, EXTENDING 1 INCH ABOVE THE FLOOR.

C. IN FIRE RATED WALLS: CAULKING SHALL BE A PURE CERAMIC FIBER MADE OF ALUMINA-SILICA, "CERAFIBER-FS" BY JOHNS-MANVILLE. SEALANT SHALL BE GUN GRADE. AN ACRYLIC 2-PART GUN APPLIED, FIRE RETARDANT ELASTIC SEALANT, "DYMERIC" BY TREMCO OR EQUIVAL BY PERMATITE NO. 1113FR.

1. LIMIT THE SIZE OF THE SPACE BETWEEN THE WALL OR FLOOR AND THE OUTSIDE OF THE PIPE OR DUCT TO 1 INCH MAXIMUM. THIS SPACE IS SUFFICIENT TO ALLOW SOME MOVEMENT OF THE PIPES OR DUCT WITHOUT CRACKING THE CAULKING OR SEALANT.
2. FOR OPENINGS IN WALLS, THE CAULKING SHALL BE APPLIED TO A MINIMUM OF 3 INCH TOTAL DEPTH. SEALANT SHALL THEN BE APPLIED ON BOTH SIDES OF THE WALL OPENING A MINIMUM OF 1/2 INCH IN DEPTH, FINISHED FLUSH WITH THE WALL. D.
- FOR OPENINGS IN FLOORS, THE CAULKING SHALL BE APPLIED FROM THE UPPER SIDE TO A MINIMUM OF 3 INCH TOTAL DEPTH RECESSED 1/2 INCH BELOW THE FINISHED FLOOR. THIS 1/2 INCH RECESS SHALL THEN BE FILLED WITH SEALANT TO FLUSH WITH FINISHED FLOOR.

1.11 CUTTING AND PATCHING

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CUTTING OF WALLS, FLOORS, CEILINGS AND ROOFS REQUIRED FOR PERFORMANCE OF HIS WORK.
- B. NO STRUCTURAL MEMBER SHALL BE CUT WITHOUT PERMISSION FROM THE ARCHITECT.
- C. PATCH ALL OPENINGS TO MATCH ADJACENT CONSTRUCTION IN BOTH MATERIAL AND FINISH.
- D. ALL CUTTING OF EXISTING CONCRETE FLOORS/SLABS ON GRADE IN THE INTERIOR OF THE BUILDING SHALL BE PERFORMED BY "SAW CUTTING" AND SHALL BE PERFORMED BY THIS CONTRACTOR.

1.12 EXCAVATION AND BACKFILL

- A. ALL EXCAVATION AND BACKFILL REQUIRED FOR THE INSTALLATION OF THE WORK SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR.
- B. NO EXCAVATION AND BACKFILL SHALL BE DONE WITHIN DRIP LINE OF TREES TO REMAIN. NO TREE SHALL BE REMOVED WITHOUT PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE.
- C. CONTRACTOR SHALL PROVIDE PROTECTION FOR TREES WITHIN 15 FEET OF UTILITY EXCAVATION.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL TRENCH AREAS AND MAINTAINING A DRY EXCAVATION. ANY DEWATERING OF TRENCHES/EXCAVATION SHALL BE PROVIDED PRIOR TO INSTALLING ANY MATERIAL.
- E. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ALL NECESSARY BARRICADES, FENCING, BRACING, SHEET PILING, SHORING, WARNING SIGNS, PUMPS, ETC., FOR THE PROTECTION OF WORKERS, GENERAL PUBLIC, AND PROPERTIES. EXCAVATION WORK SHALL COMPLY WITH ASA STANDARD A10.2 "SAFETY CODE FOR BUILDING CONSTRUCTION" AND AGC STANDARD "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" AND THE DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH (OSHA) STANDARDS.
- F. LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF EXCAVATION WORK. SHOULD UNCHARTED, OR INCORRECTLY CHARTED, PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT UTILITY OWNER IMMEDIATELY FOR DIRECTIONS.
- G. ALL TRENCHES SHALL BE UNIFORMLY GRADED AND BE FREE OF SOFT SPOTS AND STONE. PROVIDE A 4 INCH SAND BED.
- H. BACKFILL SHALL NOT BEGIN UNTIL INSTALLATION HAS BEEN TESTED AND INSPECTED. CONTRACTOR SHALL CONSULT WITH THE AUTHORITY HAVING JURISDICTION AND THE ARCHITECT/ENGINEER PRIOR TO BACKFILLING.
1. INITIAL BACKFILL SHALL BE SAND TO A POINT 6 INCHES ABOVE TOP OF INSTALLED WORK.
2. FINAL BACKFILL SHALL BE INSTALLED IN LAYERS NOT EXCEEDING 12 INCHES. FILL SHALL BE WELL TAMPED BEFORE ADDITIONAL BACKFILL MATERIAL IS PLACED. BACKFILL SHALL CONSIST OF EARTH OR SAND FREE OF STONE, BRICKS, OR FOREIGN MATTER.
- I. ALL EXCESS EARTH AND OTHER MATERIAL RESULTING FROM THE EXCAVATION SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR OR MAY BE PILED AT A LOCATION DESIGNATED AND APPROVED BY THE OWNER. ALL DEBRIS, ROCK AND TRASH SHALL NOT BE ALLOWED TO ACCUMULATE AND SHALL BE REMOVED FROM THE SITE. STREETS, ROADWAYS AND PRIVATE PROPERTY SHALL BE KEPT IN A CLEAN CONDITION.
- J. WHEN THE EXCAVATION IS WITHIN THE AREA WHERE FINISHED SITE WORK IS TO BE DONE UNDER THE GENERAL CONTRACT WORK, BACKFILL TO THE HEIGHT OF ROUGH GRADE. FINAL SURFACING WILL BE UNDER GENERAL CONTRACT WORK.
- K. WHEN THE EXCAVATION IS BEYOND THE AREA OF GENERAL CONSTRUCTION WORK, FINAL SURFACE AND ADJACENT DISTURBED AREAS SHALL BE RESTORED TO MATCH THE ORIGINAL CONDITION BY SODDING, SEEDING, ASPHALT PAVING, CONCRETE, ETC., AS REQUIRED. WORK SHALL CONFORM TO APPLICABLE SECTIONS OF THESE SPECIFICATIONS.
- L. WHEN THE EXCAVATION IS ON PUBLIC PROPERTY, RESTORATION OF SURFACE CONDITIONS SHALL MEET THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- M. WHEN SERVICES ARE TO BE RUN SIDE-BY-SIDE, A COMMON TRENCH MAY BE USED PROVIDING THE REQUIRED VERTICAL AND HORIZONTAL SEPARATION BETWEEN THE VARIOUS SERVICES ARE MAINTAINED AND PROVIDING THE METHODS OF BEDDING AND BACKFILL MEET THE APPROVAL OF THE ENGINEER. CONTRACTORS INVOLVED SHALL MAKE THEIR OWN AGREEMENT AS TO THE SHARING OF THE COST OF THE COMMON TRENCHING AND BACKFILL WORK.

1.13 TEMPORARY HEAT

- A. THE CONTRACTOR SHALL COOPERATE WITH THE GENERAL CONTRACTOR TO PROVIDE TEMPORARY HEAT AS SOON AS POSSIBLE FOR USE DURING CONSTRUCTION IF TEMPORARY HEAT IS REQUIRED. AIR HANDLING EQUIPMENT SHALL NOT BE OPERATED AT ANY TIME WITHOUT FILTERS IN PLACE AND ALL EQUIPMENT SHALL BE PROTECTED FROM DAMAGE. OPERATING THE EQUIPMENT FOR TEMPORARY HEAT SHALL NOT START THE WARRANTY PERIOD OF THE EQUIPMENT USED.

1.14 DEMOLITION AND NEW WORK

- A. THE CONTRACTOR SHALL DO ALL DEMOLITION, ALTERATIONS AND REWORK INDICATED AND/OR REQUIRED TO MAINTAIN THE OPERATION OF ALL EXISTING ELECTRICAL SYSTEMS AND TO INTEGRATE THE NEW SYSTEMS IN THE RENOVATED BUILDING AS REQUIRED. THE CONTRACTOR SHALL INCLUDE ALL WORK WHICH MAY BE REQUIRED TO ALTERATIONS AND DEMOLITION WORK. THIS SHALL INCLUDE ALL REMOVAL, RELOCATION AND REWORKING OF WIRE AND CONDUIT, OUTLET BOXES, JUNCTION BOXES, ETC. EXISTING SYSTEMS AND NEW SYSTEMS SHALL BE COMPLETELY INTEGRATED AS INTENDED AND AS INDICATED ON THE PLANS AND IN THE SPECIFICATIONS.
- B. THE CONTRACTOR SHALL REMOVE FROM THE PREMISES AND DISPOSE OF PROPERLY ALL EXISTING MATERIAL AND EQUIPMENT WHICH NO LONGER SERVES A PURPOSE IN ALTERED AREAS. THE CONTRACTOR SHALL REMOVE CONNECTIONS TO EQUIPMENT BACK TO PANEL OR JUNCTION BOX. MAINTAIN CIRCUIT CONNECTIVITY. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL MAINTAIN SERVICES TO ALL EXISTING AREAS REQUIRING SUCH SERVICES. THE CONTRACTOR SHALL REROUTE AS REQUIRED SUCH SERVICES WHERE ARE DISRUPTED DUE TO ARCHITECTURAL CHANGES IN THE EXISTING STRUCTURE. ANY EQUIPMENT WHICH IS DESIGNATED TO BE REUSED AND WHICH IS DAMAGED IN THE PROCESS SHALL BE REPLACED BY THE CONTRACTOR WITH NEW EQUIPMENT OF LIKE KIND AT NO COST TO THE OWNER.

1.15 INTERRUPTION OF SERVICES

- A. THE CONTRACTOR SHALL SCHEDULE ANY SERVICE INTERRUPTIONS TO THE EXISTING BUILDING WITH THE OWNER'S REPRESENTATIVE. SUCH INTERRUPTIONS SHALL BE PLANNED SO AS TO BE AT TIMES TO CAUSE THE LEAST INCONVENIENCE AND INTERRUPTION TO THE FACILITY'S SCHEDULE.

1.16 EXISTING CONDITIONS

ALL EXISTING CONDITIONS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS FOR THIS PROJECT HAVE BEEN DETERMINED FROM AVAILABLE DRAWINGS AND FIELD INVESTIGATIONS. CONTRACTORS MAKING PROPOSALS FOR THIS WORK SHALL INVESTIGATE ALL EXISTING CONDITIONS AND BASE THEIR PROPOSALS ON THEIR OBSERVATIONS TO PROVIDE COMPLETE AND INSTALLING. INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE INTENT OF THE DRAWING AND SPECIFICATIONS FOR THIS PROJECT AND ALL APPLICABLE GOVERNING CODES, RULES, REGULATIONS AND ORDINANCES. FAILURE TO DETERMINE EXISTING CONDITIONS WHICH CAUSE ADDITIONAL WORK WILL NOT CONSTITUTE GROUNDS FOR ADDITIONAL COMPENSATION.

PART 2 - ELECTRICAL

2.1 GENERAL REQUIREMENTS

- A. SEE PART 1 FOR GENERAL REQUIREMENTS.

2.2 IDENTIFICATION OF SWITCHES AND APPARATUS

A. ALL CABINETS, SAFETY SWITCHES, AND OTHER APPARATUS USED FOR OPERATION AND CONTROL OF CIRCUITS, APPLIANCES, AND EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY IDENTIFIED BY MEANS OF ENGRAVED PLASTIC PLATES EITHER BLACK WITH WHITE LETTERS OR WHITE WITH BLACK LETTERS.

2.3 GROUNDING

- A. ALL CONDUCTORS, MOTOR FRAMES, RACEWAYS, CABINETS, ETC., THAT REQUIRE GROUNDING SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, THOSE OF THE SERVING UTILITY AND LOCAL AUTHORITIES HAVING JURISDICTION.

2.4 SAFETY SWITCHES

- A. SAFETY SWITCHES, AS MANUFACTURED BY GENERAL ELECTRIC, CROUSE-HINDS, CUTLER-HAMMER, SQUARE D, SIEMENS, OR APPROVED EQUAL, SHALL BE FURNISHED AND INSTALLED (WHERE NOT FURNISHED BY OTHERS) WHEREVER SHOWN ON THE DRAWINGS SPECIFIED, OR REQUIRED BY THE NATIONAL ELECTRICAL CODE.
- B. SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE, UNDERWRITERS' LABORATORIES SHORT CIRCUIT LABELED FOR AT LEAST 100,000 AMPERES WITH CLASS R REJECTION FUSEHOLDERS SO AS TO COMPLY WITH NEC 100-9. SWITCHES INSIDE OF BUILDING SHALL BE FURNISHED IN NEMA 1 GENERAL PURPOSE ENCLOSURES. SWITCHES OUTSIDE OF BUILDING SHALL BE FURNISHED IN NEMA 3R ENCLOSURES UNLESS OTHERWISE SPECIFIED.
- C. EACH MOTOR SHALL BE PROVIDED WITH A DISCONNECTING MEANS IN ACCORDANCE WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.

2.5 FUSES

- A. THIS CONTRACTOR SHALL FURNISH AND INSTALL CARTRIDGE AND PLUG TYPE FUSES AS MANUFACTURED BY THE BUSSMAN MANUFACTURING COMPANY, GOULD/SHAWMUT, CEFECO, OR APPROVED EQUAL. IN ALL FUSIBLE EQUIPMENT, TIME-DELAY TRILINIC OR FUSETRON FUSES, UL CLASS RK5, SHALL BE INSTALLED ON ALL MOTOR CIRCUITS. NON TIME-DELAY AMP-TRAP (A2K OR A6K) OR BUSSMAN LIMITRON (KTN OR KTS), UL CLASS RK1 SHALL BE INSTALLED ON CIRCUITS FEEDING PANELBOARDS. ALL OTHER CIRCUITS SHALL BE PROTECTED BY FAULT-TRAP, UL CLASS RK5, FUSES OR APPROVED EQUAL. CLASS K FUSES ARE NOT ACCEPTABLE.

2.6 CONDUIT

- A. ALL ELECTRICAL WIRING, INCLUDING LOW VOLTAGE WIRING, SHALL BE INSTALLED IN CONDUIT AS HEREIN SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4 INCH NOMINAL SIZE SHALL BE USED BELOW GRADE; NO LESS THAN 1/2 INCH NOMINAL SIZE SHALL BE USED ABOVE GRADE.
- B. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 EPC-40-PVC. ALL CONDUITS SHALL BE INSTALLED WITH MINIMUM 24 INCH COVER.
- C. CONDUIT INSTALLED IN CONCRETE SLABS OR ABOVE GROUND SHALL BE GALVANIZED RIGID STEEL OR EPC-40-PVC.
- D. WHEN PVC CONDUITS PENETRATE CONCRETE FLOOR CONSTRUCTION, CONTRACTOR SHALL USE RIGID STEEL OR IMC ELBOWS AND EXTENSION. PVC CONDUIT/FITTINGS SHALL NOT BE PERMITTED TO BE EXPOSED ABOVE THE FLOOR.
- E. THINWALL TUBING SHALL BE E.M.T.
- F. ALL FITTINGS SHALL BE OF THE COMPRESSION TYPE AND WATERTIGHT FOR UNDERGROUND AND IN SLAB LOCATIONS. COMPRESSION OR SCREWED FITTINGS FOR INDOOR.
- G. CONDUIT FOR INTERIOR WIRING, IN GENERAL, SHALL BE THINWALL TUBING UNLESS OTHERWISE NOTED.
- H. RACEWAYS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FITTING TO FITTING. A RUN OF CONDUIT BETWEEN OUTLETS OR FITTINGS SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR QUARTER-BENDS INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE OUTLET OR FITTING. THE RADIUS OF BENDS SHALL NEVER BE SHORTER THAN THAT OF THE CORRESPONDING TRADE ELBOW. THE SYSTEM SHALL BE COMPLETE WITH OUTLETS, DISTRIBUTION BOXES, ETC., SMOOTH INSIDE AND MECHANICALLY SECURE IN PLACE. APPROVED STRAPS, HANGERS, OR SUPPORTS SHALL BE USED TO SECURE CONDUITS IN PLACE. CONDUITS SHALL, IN GENERAL, BE SUPPORTED AT INTERVALS NOT EXCEEDING 10'-0" AND WITHIN 3'-0" OF EACH OUTLET BOX, JUNCTION BOX, CABINET OR FITTING.

1. CONDUITS SHALL BE PROTECTED DURING CONSTRUCTION; PLUG AND KEEP CLEAN AND DRY. CONDUIT ENDS SHALL BE BUTTED IN CENTERS OF COUPLINGS. NO CRACKS OR FLATTENED SECTIONS WILL BE PERMITTED AT BENDS OR ELSEWHERE. ALL ENDS OF CONDUIT SHALL BE REAMED TO REMOVE ROUGH EDGES. RUNNING THREADS WILL NOT BE PERMITTED.
2. CONDUITS SHALL BE CONCEALED WITHIN THE WALLS, CEILINGS, AND FLOORS WHERE POSSIBLE AND UNLESS OTHERWISE NOTED. EXPOSED CONDUIT SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES WITH THE BUILDING LINES.

2.7 WIRE AND CABLE

- A. WIRE AND CABLE SHALL BE COPPER.
- B. ALL CONDUCTORS SHALL BE COPPER.
- C. NO. 10 AWG AND SMALLER CONDUCTORS SHALL BE SOLID WITH TYPE THHN INSULATION AND NO. 8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED WITH TYPE THHN INSULATION EXCEPT THAT CONDUCTORS WITHIN 3 INCHES OF LIGHT FIXTURE BALLASTS SHALL HAVE RHH, THHN, OR EQUAL INSULATION RATED FOR 90 DEGREES C. APPLICATION.

2.8 LOCATIONS OF OUTLETS AND EQUIPMENT

- A. ELECTRICAL OUTLETS AND EQUIPMENT ARE SO LOCATED ON THE DRAWINGS TO SHOW INTENT OF DESIGN. MINOR VARIATIONS IN THESE LOCATIONS MAY BE MADE BY THIS CONTRACTOR TO COMPLY WITH STRUCTURAL AND OTHER REQUIREMENTS AS DETERMINED IN THE COURSE OF CONSTRUCTION. IT SHALL BE THE DUTY OF THIS CONTRACTOR TO TAKE HIS OWN MEASUREMENTS AND BE RESPONSIBLE FOR SAME. THIS CONTRACTOR SHALL ALSO REVIEW THE ARCHITECTURAL DRAWINGS AND THOSE DRAWINGS USED BY OTHER CONTRACTORS IN ORDER TO DETERMINE EXACT LOCATIONS FOR ELECTRICAL OUTLETS AND EQUIPMENT. DO NOT SCALE DRAWINGS FOR OUTLET LOCATIONS.
- B. EQUIPMENT MOUNTING HEIGHTS:

1. INTERIOR RECEPTACLES:
(A) FLOOR TO BOTTOM: 16".
2. EXTERIOR RECEPTACLES:
(A) FLOOR TO CENTERLINE: 24".
3. TELEPHONE OUTLETS:
(A) FLOOR TO BOTTOM: 16".
4. SWITCHES:
(A) FLOOR TO TOP: 48".
5. RECEPTACLES ABOVE COUNTERS: CENTERLINE 10-INCHES ABOVE COUNTER AND HORIZONTAL.

2.9 WALL PLATES

- A. GROUPS OF SWITCHES, OUTLETS OR SWITCH AND OUTLET COMBINATIONS SHALL BE MOUNTED UNDER ONE GANG-PLATE.
- B. WALL PLATES SHALL FIT AND COVER PROPERLY THE DEVICE AND WALL OPENING. NO OPEN OR UNFINISHED SURFACES SHALL SHOW AFTER INSTALLATION OF THE WALL PLATES.
- C. WALL PLATES SHALL BE SET VERTICAL AND SHALL FINISH FLUSH WITH ALL SURROUNDING SURFACES.
- D. WALL PLATES FOR ALL DEVICES AND TELEPHONE OUTLETS SHALL MATCH THE EXISTING DEVICES.

2.10 WIRING DEVICES

- A. SINGLE-POLE WALL TUMBLER SWITCHES FOR GENERAL USE SHALL BE SPECIFICATION GRADE HUBBELL NO. 1121, OR APPROVED EQUAL, MECHANICALLY SILENT TYPE WITH PLASTIC HANDLES, RATED 20 AMPERES AC, 120/277 VOLTS. GENERAL USE SWITCHES INDICATED ON PLANS AS DOUBLE POLE, 3-WAY, 4-WAY OR LOCK TYPE WITH KEY GUIDE SHALL BE THE SAME SERIES AS THE SINGLE-POLE SWITCHES. DEVICE COLOR SHALL MATCH EXISTING.
- B. CONVENIENCE OUTLETS IN FINISHED SPACES SHALL BE SPECIFICATION GRADE HUBBELL NO. 5362, OR APPROVED EQUAL, DUPLEX GROUNDING TYPE RECEPTACLES RATED 20 AMPERES AC, 120 VOLT. DEVICE COLOR SHALL MATCH EXISTING.
- C. RECEPTACLES DESIGNATED WITH GROUND FAULT PROTECTION SHALL BE HUBBELL NO. GF-5362, OR APPROVED EQUAL, 120 VOLT, 20 AMP GROUND FAULT INTERRUPTER TYPE. DEVICE COLOR SHALL MATCH EXISTING.

2.11 TELEPHONE

- A. FURNISH AND INSTALL TELEPHONE OUTLETS AS NOTED ON THE DRAWINGS WITH 3/4 INCH CONDUIT TO ABOVE LAY-IN CEILINGS WITH END BUSHINGS.
- B. PROVIDE PULL WIRES IN ALL TELEPHONE CONDUITS.
- C. FURNISH AND INSTALL COVER PLATES SUITABLE FOR USE WITH THE EQUIPMENT TO BE CONNECTED.

2.12 LIGHTING FIXTURES

- A. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHTING FIXTURES AND LAMPS AS INDICATED ON THE DRAWINGS AND HEREIN DESCRIBED. MATERIAL, EQUIPMENT, OR SERVICES NECESSARY TO COMPLETE THE INSTALLATION OF THESE FIXTURES, BUT NOT SPECIFICALLY MENTIONED, SHALL BE FURNISHED AS THOUGH SPECIFIED. ALL FIXTURES AND LAMPS SHALL BE PROPERLY CLEANED AND ADJUSTED AFTER INSTALLATION.
- B. ALL ADJUSTABLE LIGHTING FIXTURES SHALL BE CAREFULLY POSITIONED BY THIS CONTRACTOR IN THE PRESENCE OF THE ARCHITECT OR HIS REPRESENTATIVE.
- C. LAMPS SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC, SYLVANIA OR PHILLIPS.
- D. BALLASTS SHALL BE AS NOTED IN FIXTURE SCHEDULE. BALLASTS IN FIXTURES DESIGNATED FOR EMERGENCY LIGHTING MUST BE COMPATIBLE WITH THE EMERGENCY UNIT USED WITH MINIMUM LEAKAGE.
- E. THIS CONTRACTOR SHALL FURNISH AND INSTALL FIXTURES HEREIN SPECIFIED OR AS SHOWN ON THE DRAWINGS.
- F. LIGHT FIXTURES SHALL BE SUPPORTED FROM ROOF STRUCTURE PER UBC 47-18.
- G. GENERAL CONTRACTOR SHALL PROVIDE ALL FIRE-RATED ENCLOSURES FOR LIGHT FIXTURES INSTALLED IN FIRE-RATED CEILINGS.

2.13 IDENTIFICATION OF EQUIPMENT

- A. ALL SERVICE ENTRANCE EQUIPMENT, DISCONNECT SWITCHES, PANELBOARDS, RELAYS, MOTOR STARTERS, CONTACTORS, TELEPHONE TERMINAL CABINETS, TV EQUIPMENT AND RISER JUNCTION BOXES, AND OTHER ELECTRICAL EQUIPMENT UNDER THIS CONTRACT, SHALL BE PROVIDED WITH PROPER IDENTIFICATION. IDENTIFICATION SHALL BE BY THE USE OF ENGRAVED COLOR CODED PLASTIC NAMEPLATES WITH WHITE LETTERING SCREWED TO THE COVER OF THE EQUIPMENT. USE OF EMBOSSED PLASTIC "TAPE" LABELS AS PREPARED BY "TYPEWRITER" TYPE EQUIPMENT SHALL NOT BE USED. COLOR CODING SHALL BE AS FOLLOWS:

1. EQUIPMENT CONNECTED TO A NORMAL POWER SOURCE SHALL BE BLACK WITH WHITE LETTERS.

2.14 FIRE ALARM SYSTEM

- A. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT, WIRE, CONDUIT AND ENGINEERING SERVICES NECESSARY TO INSURE A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM AS DESCRIBED HEREIN AND AS SHOWN ON THE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MATERIAL AND EQUIPMENT COMPATIBLE TO THE SYSTEM SUPPLIED. ANY EQUIPMENT NOT SPECIFICALLY MENTIONED IN THIS SPECIFICATION OR NOT SHOWN ON THE DRAWINGS BUT REQUIRED FOR THE PROPER OPERATION OF THE FIRE ALARM SYSTEM SHALL BE FURNISHED AND INSTALLED.
- B. ALL EQUIPMENT AND COMPLETED INSTALLATION SHALL BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, NFPA, LOCAL CODES, THESE SPECIFICATIONS AND AUTHORITIES HAVING JURISDICTION WITH THE STRICTER REQUIREMENTS GOVERNING IN CASE OF POSSIBLE VARIANCES. ALL COMPONENTS OF THE SYSTEM SHALL BE STANDARD OF THE MANUFACTURER, LISTED BY UNDERWRITERS' LABORATORIES, INC. AND BEAR THEIR MARK.
- C. THE FIRE ALARM EQUIPMENT SHALL BE THAT OF THE GE-EST COMPANY OR COMPARABLE SYSTEMS BY PYROTRONICS, NOTIFIER OR SIMPLEX. THE ALARM CONTRACTOR SHALL PROVIDE, AT THE REQUEST OF THE OWNER, MEANS BY WHICH THE SYSTEM CAN BE SERVICED, MAINTAINED AND MONITORED BY COMPETENT QUALIFIED INDIVIDUALS.
- D. THE SYSTEM SHALL BE ADDRESSABLE, ELECTRICALLY SUPERVISED AND UTILIZE 2-WIRE, CLASS B CIRCUITS FOR ALL ALARM INITIATION ZONES AND SIGNAL CIRCUITS. THE SYSTEM SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FIRE ALARM CONTROL PANEL, MANUAL AND AUTOMATIC ALARM INITIATING DEVICES AND AUDIBLE/VISUAL ALARM INDICATING DEVICES. THE SYSTEM SHALL HAVE THE CAPABILITY OF BEING MONITORED VIA AN OUTSIDE PHONE LINE PROVIDED BY THE OWNER.

- E. ACTUATION OF ANY MANUAL OR AUTOMATIC INITIATING DEVICE SHALL CAUSE THE FOLLOWING:

1. ALL AUDIBLE INDICATING DEVICES TO SOUND.
2. VISUAL INDICATING DEVICES TO FLASH.
3. SHUTDOWN ALL AIR HANDLING UNITS.

- F. FIRE ALARM AUDIBLE/VISUAL UNITS SHALL BE GE-EST AND G1R SERIES FLUSH-MOUNTED COMBINATION HORN AND FLASHING LIGHT. HORN SHALL BE RED VIBRATING TYPE OPERATING AT 24VDC. THE FLASHING LIGHT SHALL BE XENON STROBE AND OPERATE AT GREATER THAN 1000 CANDELPPOWER. THE UNIT SHALL FLASH AT APPROXIMATELY TWO FLASHES PER SECOND. A FLASH RATE OF GREATER THAN TWO FLASHES PER SECOND IS NOT ACCEPTABLE. BOTH THE HORN AND STROBE SHALL OPERATE ON 24VDC SUPPLIED FROM THE CONTROL PANEL.

- G. POWER LIMITED CIRCUIT CABLES SHALL BE UL LISTED AND AS MANUFACTURED BY GE., WEST PENN OR BELDON. CONDUCTORS SHALL BE SOLID GAUGES #18 (FOR PULL STATIONS AND SMOKE DETECTOR) AND #16 FOR HORNS, LIGHTS AND DOOR HOLDERS). CABLES SHALL BE TWISTED PAIRS TO REDUCE SUSCEPTIBILITY TO TRANSIENT NOISE. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT UNLESS NOTED OTHERWISE.

project title

RED DEVELOPMENT
SUMMIT FAIR
910 G NW Blue Pkwy
Lee's Summit, MO 64086

project number

Project Number

drawing issuance

Permit Set

06/14/23

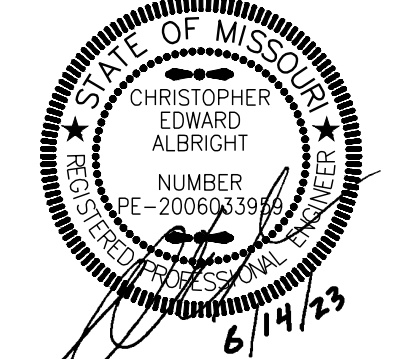
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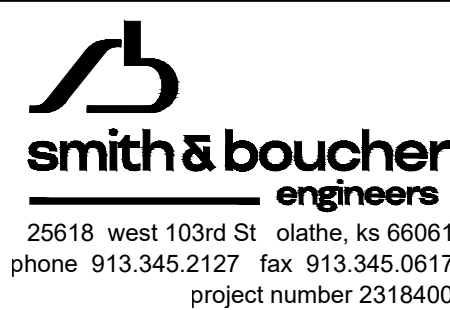
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MECHANICAL AND ELECTRICAL -
SPECIFICATIONS

drawing number

ME402



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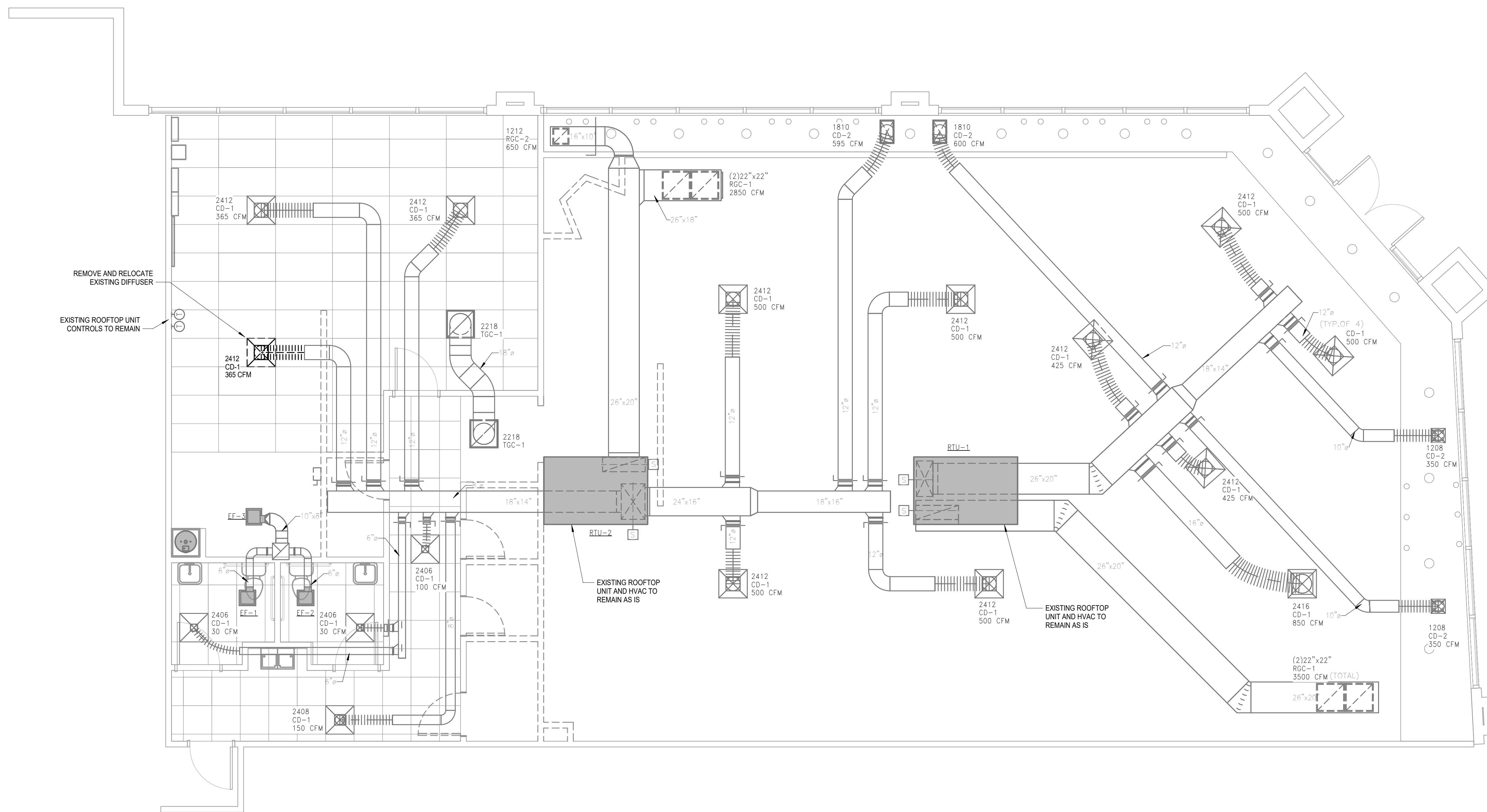


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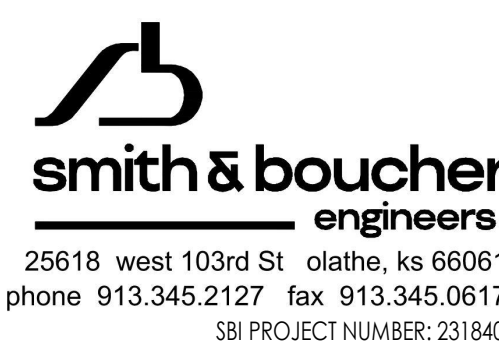
HVAC PLAN - DEMOLITION

drawing number

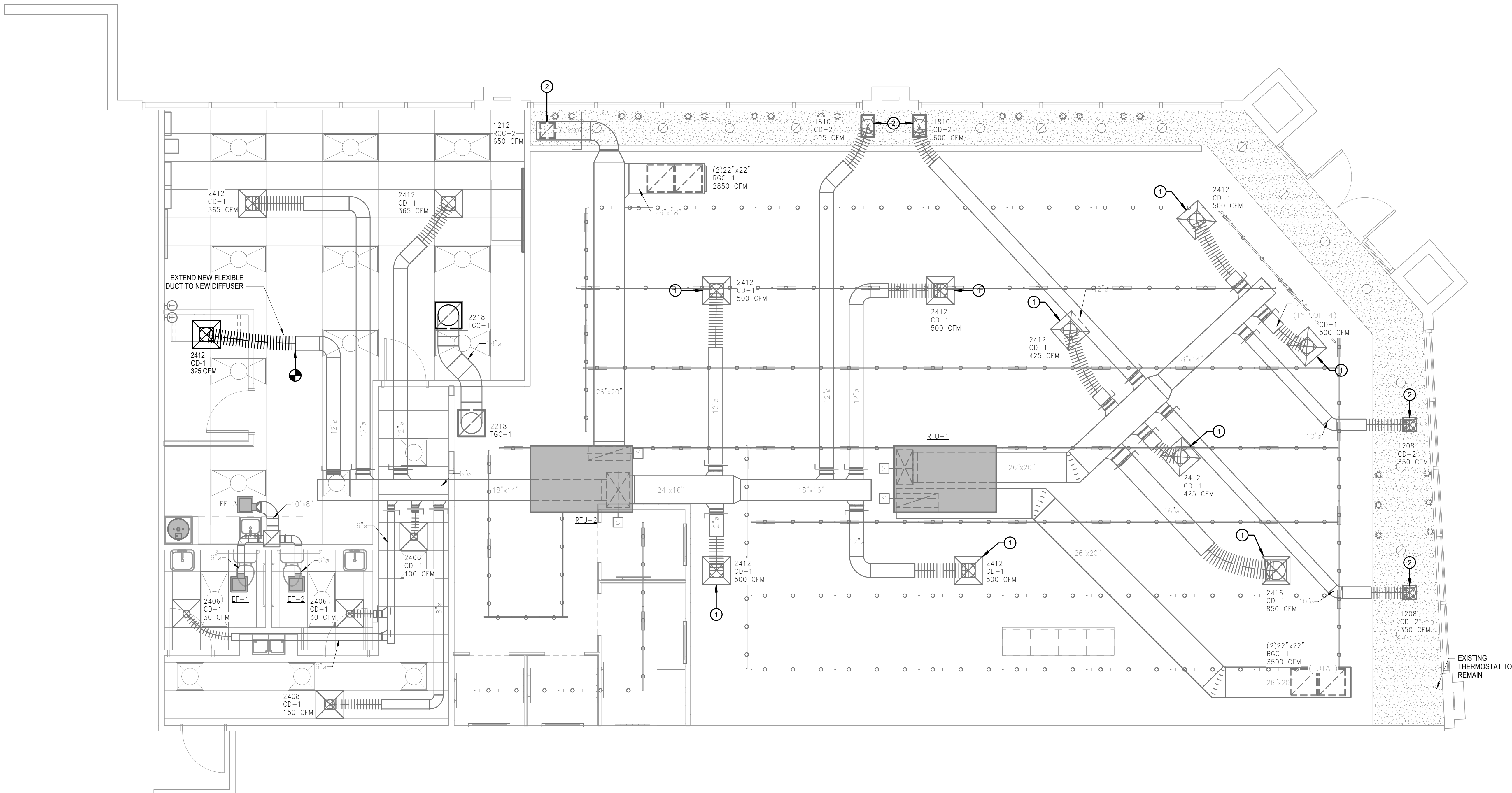
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HVAC PLAN - DEMOLITION



25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
SBI PROJECT NUMBER: 231840



GENERAL NOTES:

1. EXISTING HVAC SYSTEM TO REMAIN INTACT AND BE REUSED. CLEAN AND WIPE DOWN ALL DIFFUSERS AND GRILLES.
2. PROVIDE NEBB OR AABC CERTIFIED TAB OF THE DIFFUSERS AND GRILLES. TEST EXISTING ROOFTOP UNIT FOR FULL AIRFLOW (RTU-1 AT 4000CFM SUPPLY AND 900CFM OUTSIDE AIR, RTU-2 AT 3405CFM SUPPLY AND 900CFM OF OUTSIDE AIR).

PLAN NOTES:

1. ADJUST LOCATION OF EXISTING SUPPLY DIFFUSER TO ACCOMMODATE NEW CEILING AND LIGHTING.
2. TEMPORARILY REMOVE EXISTING DIFFUSERS AND REINSTALL TO ACCOMMODATE SOFFIT WORK.

HVAC PLAN - NEW WORK 1
SCALE: 1/4" = 1'-0"

smith & boucher
engineers
25618 west 103rd St. olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
SBI PROJECT NUMBER: 2318400

Kloverarchitects
8813 PENROSE LANE, SUITE 400 • LENEXA, KS 66219
PH: 913.649.8181 • FX: 913.649.1275 • WWW.KLOVER.NET

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SUMMIT FAIR**
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Lee's Summit, MO 64086

project number

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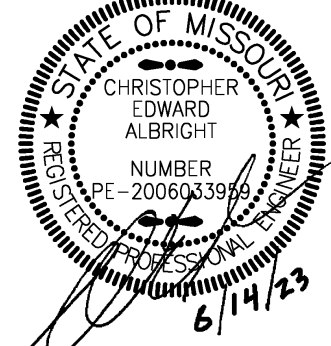
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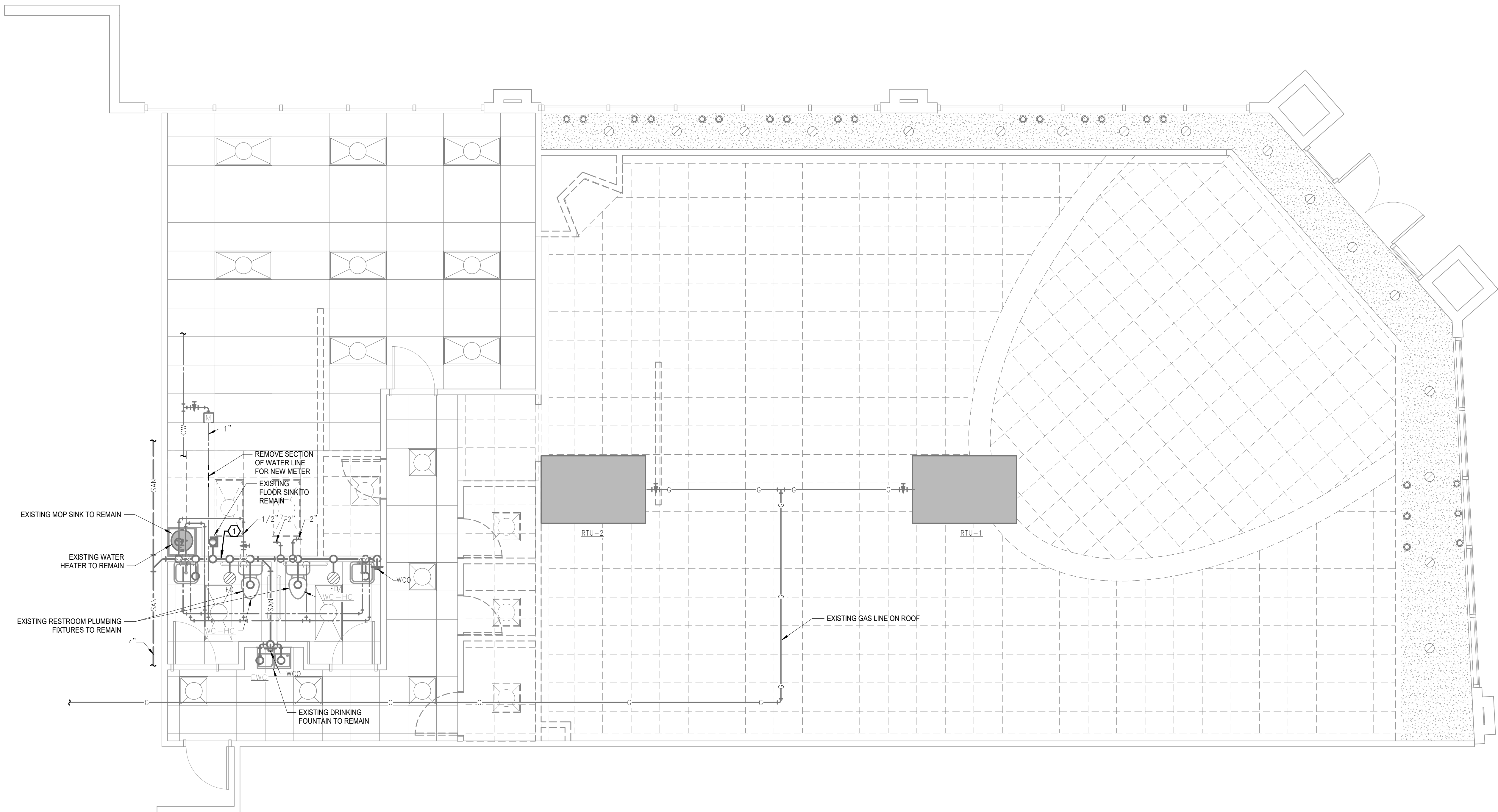
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HVAC PLAN - NEW WORK

drawing number

M101



DEMOLITION PLAN NOTES:
DISCONNECT AND REMOVE EXISTING BACKFLOW PREVENTER AND COLD WATER LINE. ADJUST AS REQUIRED FOR NEW WORK.

PLUMBING PLAN - DEMOLITION 1
SCALE: 1/4" = 1'-0"

smith & boucher
engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
SBI PROJECT NUMBER: 2318400

Kloverarchitects
8813 PENROSE LANE, SUITE 400 • LENEXA, KS 66219
ph: 913.649.8181 • fx: 913.649.1275 • www.klover.net
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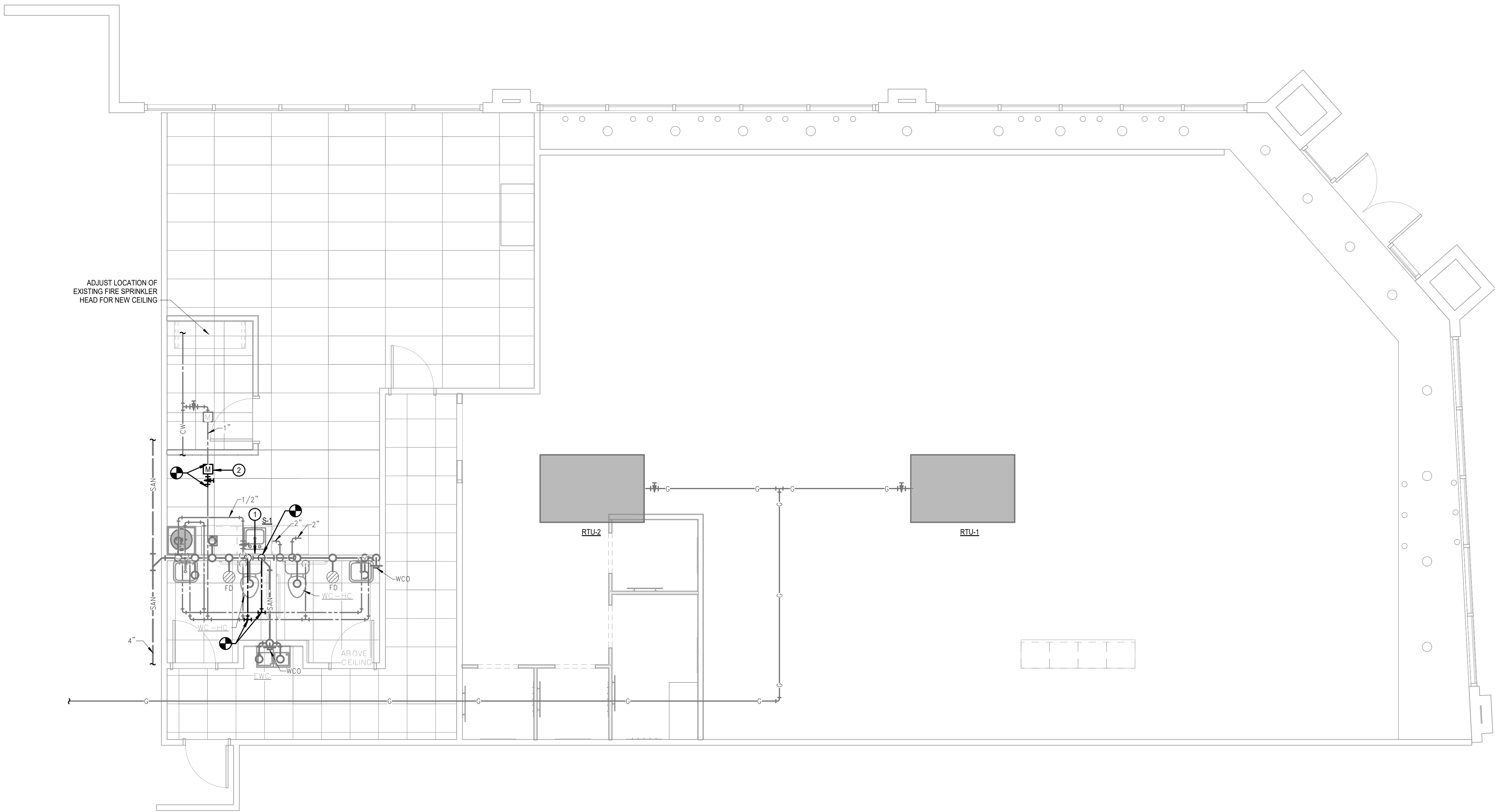
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STATE OF MISSOURI
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drawing title
PLUMBING PLAN - DEMOLITION
drawing number
DP101

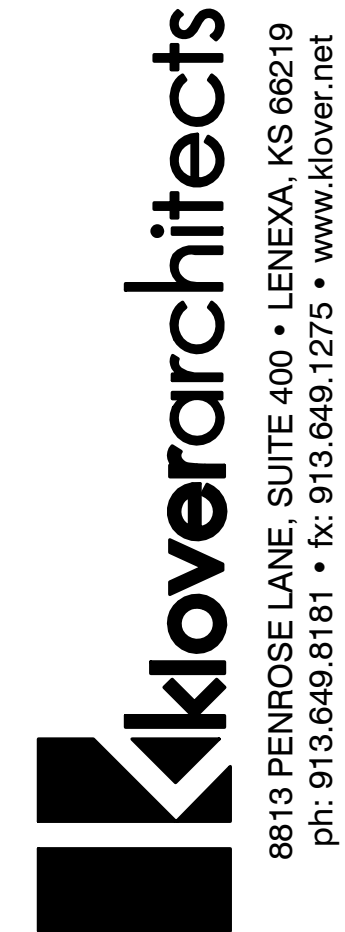


FIRE PROTECTION GENERAL NOTES:

1. THE EXISTING FIRE SPRINKLER SYSTEM IS TO REMAIN AND BE REUSED. ADJUST OR MODIFY ANY HEAD LOCATIONS AS A RESULT OF NEW CONSTRUCTION (WALLS, LIGHTING, ETC.).

PLUMBING PLAN NOTES:

- ① CONNECT 1/2" COLD WATER, 1/2" HOT WATER, 2" SANITARY AND 1-1/2" VENT TO NEW BREAKROOM SINK. MODIFY SANITARY AND VENT PIPING IN CHASE TO CONNECT TO EXISTING PIPING IN THE WALL.
- ② PROVIDE AND INSTALL NEW TENANT WATER SUB-METER AND ISOLATION VALVE. METER TO BE A NEPTUNE T-10 (OR EQUAL).



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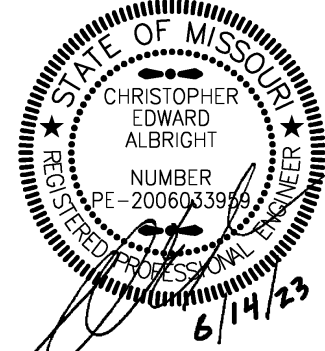
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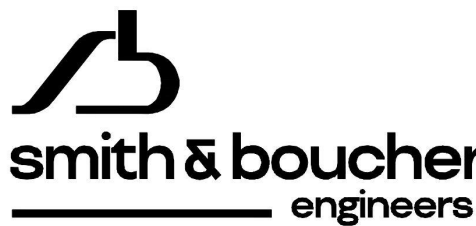
PLUMBING PLAN - NEW WORK

drawing number

P101

PLUMBING PLAN - NEW WORK

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



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phone 913.345.2127 fax 913.345.0617

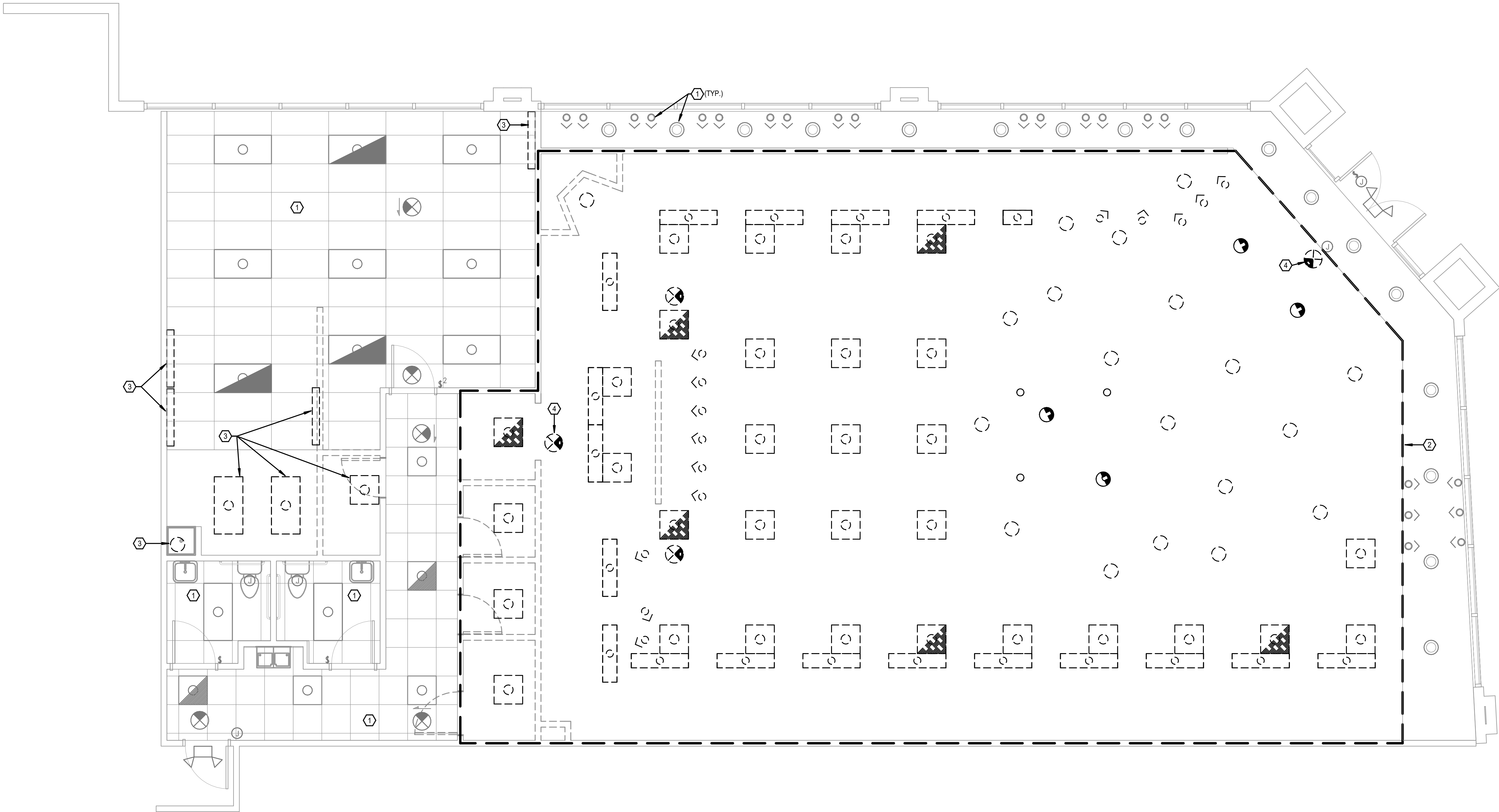
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GENERAL DEMOLITION NOTES:

1. UNLESS NOTED OTHERWISE, SERVICES AND EQUIPMENT SHOWN FULL TONE ARE NEW WORK, HALF TONE ARE EXISTING TO REMAIN, AND FULL TONE AND DASHED ARE EXISTING TO BE DEMOLISHED.
2. THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND ARE NOT TO BE CONSTRUED AS "AS BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE NEW WORK. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE EXTENT OF THE WORK INDICATED.
3. DISCONNECT AND REMOVE ALL CIRCUITRY, DISCONNECTS, CONTROLLERS AND CONDUIT THAT BECOMES UNNECESSARY AS A RESULT OF THE REMOVAL OF FIXTURES, DEVICES OR EQUIPMENT INDICATED TO BE REMOVED. LABEL ALL CIRCUIT BREAKERS IN EXISTING PANELBOARDS NO LONGER IN USE AS SPARE. CAP ALL UNUSED CONDUIT AND WIRING BEYOND THE FLOOR LINE OR WALL LINE TO FACILITATE RESTORATION OF FINISH.
4. VERIFY AND RESTORE CONTINUITY OF ALL EXISTING CIRCUITRY INDICATED TO REMAIN IN USE. WHERE REMOVAL OF EXISTING WIRING INTERRUPTS ELECTRICAL CONTINUITY OF CIRCUITS WHICH ARE TO REMAIN, FURNISH AND INSTALL ALL REQUIRED CIRCUITRY, CONDUIT, JUNCTION BOXES, ETC. TO INSURE CONTINUED ELECTRICAL CONTINUITY.
5. RELOCATE AND RECONNECT ANY MECHANICAL EQUIPMENT AND ANY ELECTRIC FIXTURES, DEVICES OR EQUIPMENT THAT MUST BE RELOCATED IN ORDER TO ACCOMPLISH THE REVISIONS INDICATED ON THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS OR TO MEET NEC CODE REQUIRED CLEARANCES.
6. ELECTRIC CONTRACTOR TO FURNISH AND INSTALL BLANK JUNCTION BOX COVERS ON ALL EXISTING JUNCTION BOXES WITHIN THE CONSTRUCTION AREA THAT ARE NOT BEING DEMOLISHED.

DEMOLITION PLAN NOTES:

- 1 EXISTING FIXTURE TO REMAIN. UNLESS NOTED OTHERWISE.
- 2 ALL FIXTURES TO BE DEMOLISHED. MAINTAIN CIRCUIT CONTINUITY OF ANY DOWNSTREAM DEVICE.
- 3 FIXTURE TO BE DEMOLISHED.
- 4 TEMPORARILY REMOVE EXIT SIGNS AND REINSTALL DURING NEW WORK. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.



LIGHTING PLAN - DEMOLITION 1
SCALE: 1/4" = 1'-0"

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engineers
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SBI PROJECT NUMBER: 2318400

Kloverarchitects
8813 PENROSE LANE, SUITE 400 • LENEXA, KS 66219
PH: 913.649.8181 • FX: 913.649.1275 • www.klover.net

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project title

RED DEVELOPMENT
SUMMIT FAIR
910 G NW Blue Pkwy
Lee's Summit, MO 64086

project number

Project Number

drawing issuance

Permit Set

06/14/23

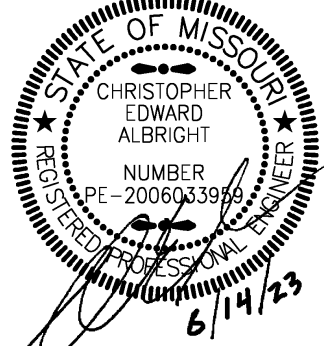
drawing revisions

No.

Description:

Date:

professional seal



DATE SIGNED: 06-14-23

drawing title

LIGHTING PLAN - DEMOLITION

drawing number

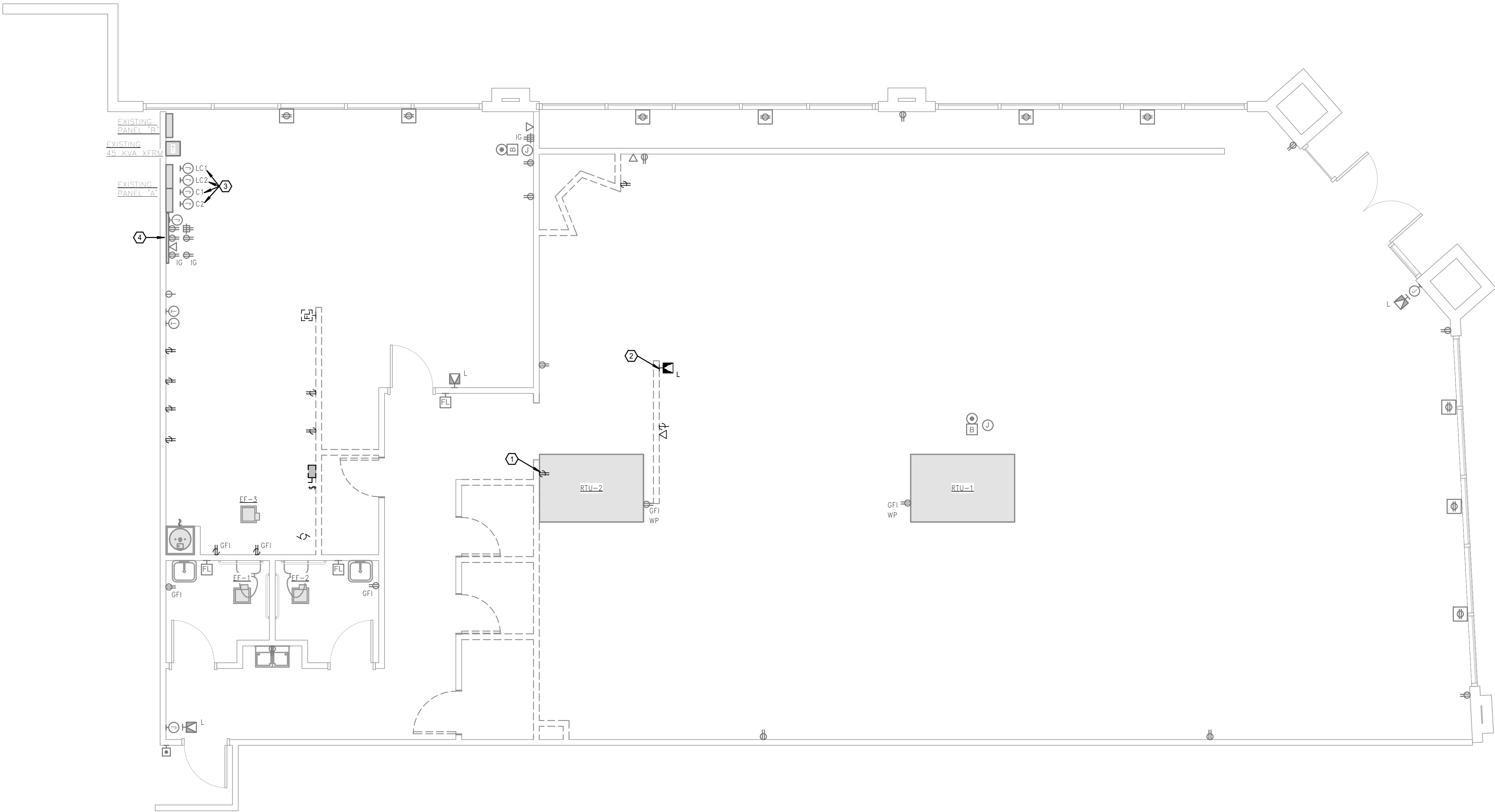
DE101

GENERAL DEMOLITION NOTES:

1. UNLESS NOTED OTHERWISE, SERVICES AND EQUIPMENT SHOWN FULL TONE ARE NEW WORK, HALF TONE ARE EXISTING TO REMAIN, AND FULL TONE AND DASHED ARE EXISTING TO BE DEMOLISHED.
2. THE EXISTING CONDITIONS INDICATED ON THE DRAWINGS ARE TAKEN FROM THE BEST INFORMATION AVAILABLE AND ARE NOT TO BE CONSTRUED AS "AS BUILT" CONDITIONS. THE INFORMATION IS SHOWN TO HELP ESTABLISH THE EXTENT OF THE NEW WORK. VERIFY ALL ACTUAL EXISTING CONDITIONS AT THE PROJECT SITE AND PERFORM WORK AS REQUIRED TO MEET THE EXISTING CONDITIONS AND THE EXTENT OF THE WORK INDICATED.
3. DISCONNECT AND REMOVE ALL CIRCUITRY, DISCONNECTS, CONTROLLERS AND CONDUIT THAT BECOMES UNNECESSARY AS A RESULT OF THE REMOVAL OF FIXTURES, DEVICES OR EQUIPMENT INDICATED TO BE REMOVED. LABEL ALL CIRCUIT BREAKERS IN EXISTING PANELBOARDS NO LONGER IN USE AS SPARE. CAP ALL UNUSED CONDUIT AND WIRING BEYOND THE FLOOR LINE OR WALL LINE TO FACILITATE RESTORATION OF FINISH.
4. VERIFY AND RESTORE CONTINUITY OF ALL EXISTING CIRCUITRY INDICATED TO REMAIN IN USE. WHERE REMOVAL OF EXISTING WIRING INTERRUPTS ELECTRICAL CONTINUITY OF CIRCUITS WHICH ARE TO REMAIN, FURNISH AND INSTALL ALL REQUIRED CIRCUITRY, CONDUIT, JUNCTION BOXES, ETC. TO INSURE CONTINUED ELECTRICAL CONTINUITY.
5. RELOCATE AND RECONNECT ANY MECHANICAL EQUIPMENT AND ANY ELECTRIC FIXTURES, DEVICES OR EQUIPMENT THAT MUST BE RELOCATED IN ORDER TO ACCOMPLISH THE REVISIONS INDICATED ON THE DRAWINGS OR INDICATED IN THE SPECIFICATIONS OR TO MEET NEC CODE REQUIRED CLEARANCES.
6. ELECTRIC CONTRACTOR TO FURNISH AND INSTALL BLANK JUNCTION BOX COVERS ON ALL EXISTING JUNCTION BOXES WITHIN THE CONSTRUCTION AREA THAT ARE NOT BEING DEMOLISHED.

DEMOLITION PLAN NOTES:

- ① RECEPTACLE TO BE DEMOLISHED. MAINTAIN CONTINUITY FOR ANY DOWNSTREAM CIRCUITS.
- ② EXISTING FIRE ALARM DEVICE TO BE TEMPORARY REMOVED AND RELOCATED DURING NEW WORK.
- ③ EXISTING LIGHTING CONTACTORS AND TIMER CONTROLS.
- ④ EXISTING LOW-VOLTAGE EQUIPMENT FOR SECURITY/TELECOM AND OTHERS. REMOVE ALL UN-USED OLD EQUIPMENT AFTER VERIFYING WITH OWNER TO MAKE ROOM FOR LULULEMONS EQUIPMENT. MAINTAIN ALL OUTLETS FOR RE-USE DURING NEW WORK.



POWER PLAN - DEMOLITION ①
SCALE: 1/4" = 1'-0"

smith & boucher
engineers
25618 west 103rd St olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
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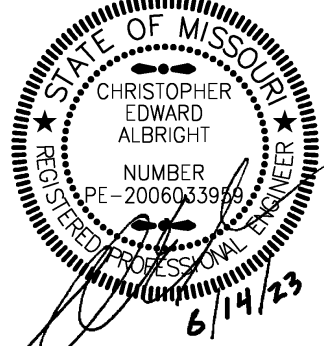
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POWER PLAN - DEMOLITION

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DE201

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8 EXISTING EXIT SIGNS TO BE RE-INSTALLED FROM TEMPORARY REMOVAL. EXIT SIGNS TO BE PENDANT MOUNT EXIT SIGNS AS REQUIRED TO BE INSTALLED DURING NEW CEILING WORK.

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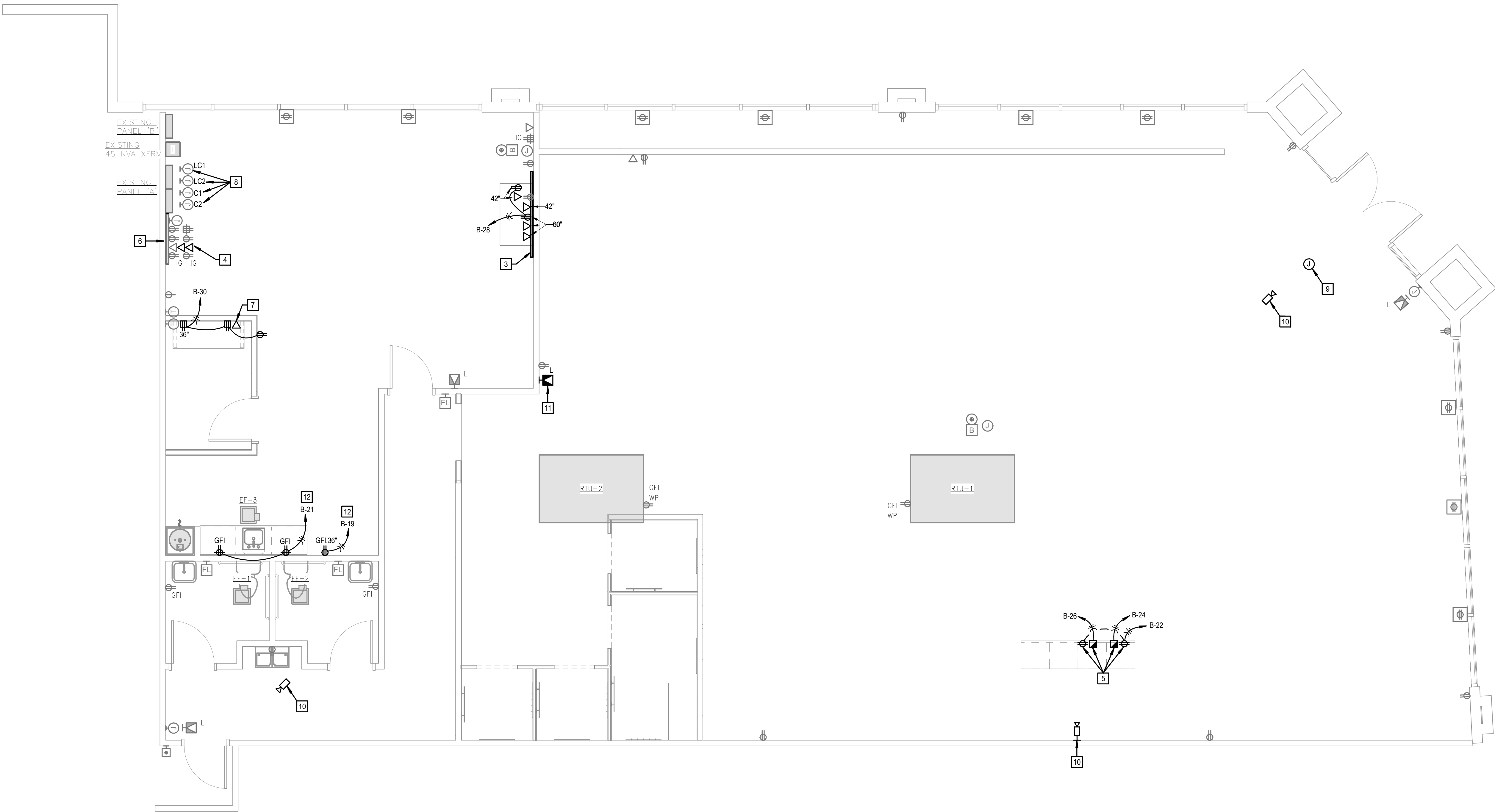
LIGHTING PLAN - NEW WORK

drawing number

F1C

E10


smith & boucher
engineers
25618 west 103rd St. olathe, ks 66061
phone 913.345.2127 fax 913.345.0617
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GENERAL NOTES:

1. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT MOUNTING LOCATIONS OF ALL CEILING, FLOOR, AND WALL MOUNTED ELECTRICAL DEVICES.
2. REFER TO M/E SCHEDULES AND DETAILS FOR MECHANICAL EQUIPMENT CIRCUITING INFORMATION.
3. SPECIAL MOUNTING HEIGHTS NOTED ON PLANS ARE TO CENTER OF JUNCTION BOX.
4. 120V BRANCH CIRCUITING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE.

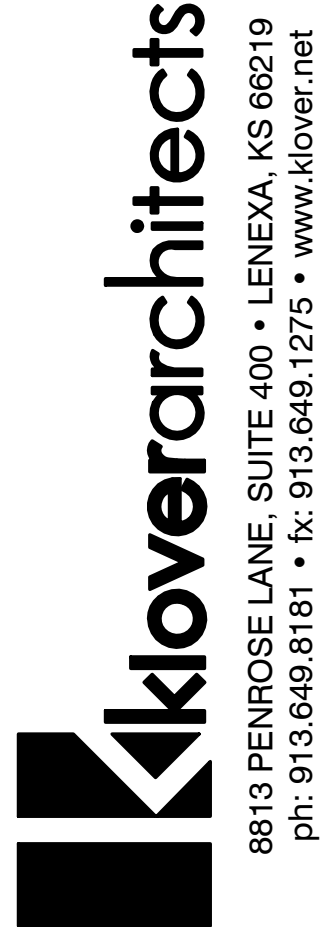
0-100' = # 12AWG.
101-150' = # 10AWG.
151-250' = # 8AWG.

GROUND CONDUCTOR AND RACEWAY SHALL BE INCREASED AS REQUIRED.

5. ALL ELECTRICAL CONDUIT AND INFRASTRUCTURE THAT PENETRATES A RATED WALL, FLOOR, OR CEILING ARE TO BE SEALED WITH UL APPROVED METHODS AND MATERIALS CONSISTENT WITH THE RATING OF THE ASSEMBLY PENETRATED.

PLAN NOTES:

1. PROVIDE 2'-0" WHIP WITH A QUAD THAT WILL ATTACH INSIDE THE MILLWORK BY OTHERS. TRENCH AS REQUIRED TO BRING THE CONDUITS UNDER THE CASHWRAP LOCATION. REFER TO LULULEMONS CONSTRUCTION STANDARDS & SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PROVIDE (1) DEDICATED QUAD RECEPTACLE & (1) DUPLEX RECEPTACLE (IN-GROUND) AT "POS" LOCATION. COORDINATE WITH ARCHITECT/OWNER EXACT LOCATION OF "POS" PRIOR TO ROUGH-IN. ALSO PROVIDE 1" CONDUIT FOR RUNNING (3) CAT6 CABLE BY OTHERS PER TILL AT THE LOCATION SHOWN. REFER TO LULULEMONS CONSTRUCTION STANDARDS & SPECIFICATIONS FOR ADDITIONAL INFORMATION. TRENCH AS REQUIRED FOR BRINGING POWER & CONDUIT TO THE TILL LOCATIONS.
3. 6'-0"x2'-0"x3/4" FIRE RATED PLYWOOD INSTALLED AT 5'-3 1/4" ON CENTER FOR RFID RECEIVING DESK. SURFACE MOUNTED PLYWOOD TO BE PAINTED TO MATCH THE COLOUR OF THE WALL. REFER TO LULULEMONS CONSTRUCTION STANDARDS & SPECIFICATIONS FOR ADDITIONAL INFORMATION. TRENCH AS REQUIRED FOR BRINGING POWER & CONDUIT TO THE TILL LOCATIONS. COORDINATE EXACT LOCATION WITH LULULEMON & ARCHITECT.
4. RE-USE EXISTING OUTLETS FOR REQUIRED LULULEMON TELECOM & NETWORKING RACK ON EXISTING PLYWOOD BACKBOARD. PROVIDE ADDITIONAL (2) DATA OUTLET ROUGH-IN ON AVAILABLE SPACE. REFER TO REFER TO LULULEMONS CONSTRUCTION STANDARDS & SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. PROVIDE (1) DEDICATED QUAD RECEPTACLE, (3) DATA OUTLETS & (1) DUPLEX RECEPTACLE (IN-GROUND) AT "POS" LOCATION. COORDINATE WITH ARCHITECT/OWNER EXACT LOCATION OF "POS" PRIOR TO ROUGH-IN. ALSO PROVIDE 1" CONDUIT FOR RUNNING (3) CAT6 CABLE BY OTHERS PER TILL AT THE LOCATION SHOWN. REFER TO LULULEMONS CONSTRUCTION STANDARDS & SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. VERIFY IN FIELD IF EXISTING FOR (3) 3/4" CONDUIT ON TOP OF PLYWOOD FOR SECURITY, MAIN PHONE LINE & OTHER FUTURE CONDUIT FOR FUTURE USES ROUTED UP TO DECK. IF THIS DOESN'T EXIST, PROVIDE MISSING CONDUITS. REFER TO LULULEMONS CONSTRUCTION STANDARDS & SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. PROVIDE (1) 1" CONDUIT TO A LARGER JUNCTION TO ACCOMMODATE A FACE PLATE FOR (6) DATA OUTLETS BY OTHERS. REFER TO LULULEMONS CONSTRUCTION STANDARDS & SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. EXISTING LIGHTING CONTACTORS AND TIMER CONTROLS.
9. LOCATION REFERENCE FOR TRAFFIC COUNTER. WORK TO BE COMPLETED BY TENANT.
10. LOCATION REFERENCE FOR SECURITY CAMERA. WORK TO BE COMPLETED BY TENANT.
11. EXISTING FIRE ALARM DEVICE RELOCATED. RE-CONNECT TO EXISTING FIRE ALARM SYSTEM AS REQUIRED.
12. VERIFY IN FIELD IF CIRCUIT CAN BE UTILIZED. IF CIRCUIT IS NOT AVAILABLE, CIRCUIT TO SPARE 20A-1P BREAKER ON PANEL B.



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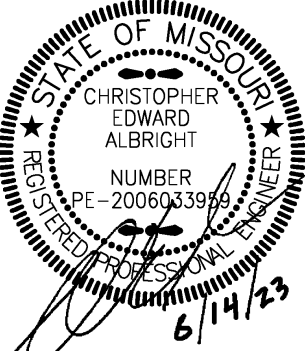
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