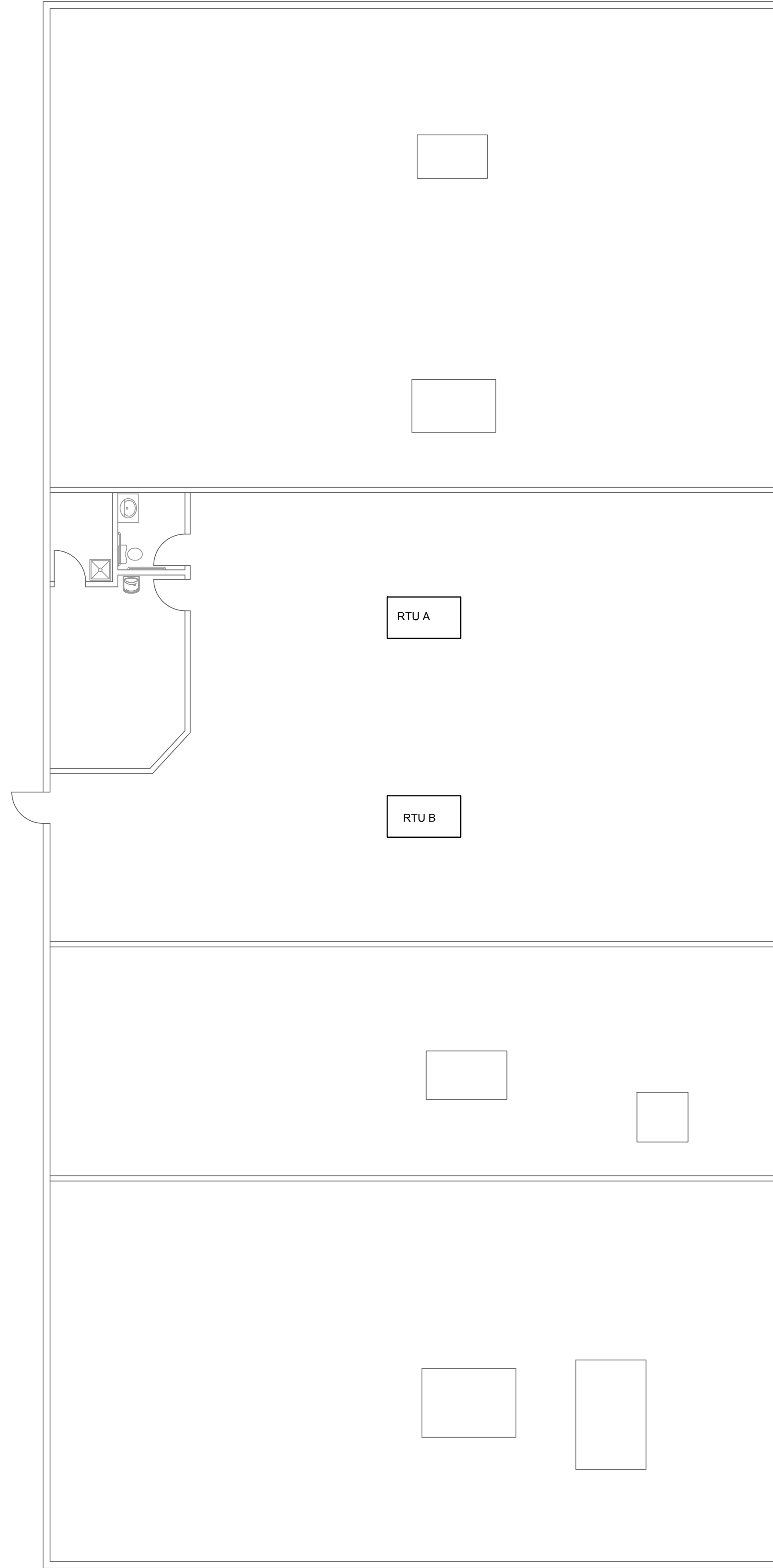


**2** DUCT WORK PLAN

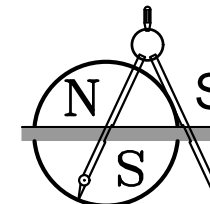
SCALE: 1/4" = 1'-0"  
RE: ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS



**1** MECHANICAL PLAN

SCALE: 1/8" = 1'-0"  
RE: ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS

RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
05/06/2020



SHEET NUMBER

**M1**

PROJECT INFORMATION

**LANDLORD'S WORK**  
**1041 NE SAM WALTON LANE**  
**LEE'S SUMMIT, MISSOURI**

ISSUE INFO

DATE:	2/26/2020	
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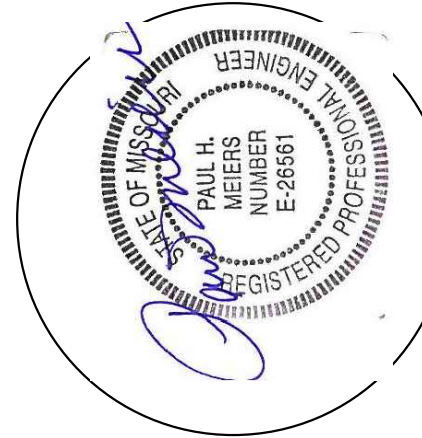
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SHEET TITLE

**MECHANICAL  
PLAN**

**Norton & Schmidt**

Consulting Engineers, L.L.C.  
North Kansas City, MO • Atlanta, GA  
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Phone: (816) 421-4232  
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N&S JOB NUMBER: 2020-0463  
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MECHANICAL NOTES

- 1. ALL WORK PER 2018 INTERNATIONAL MECHANICAL CODE.
- 2. VERIFY CLEARANCES IN ALL AREAS.
- 3. DUCT INSTALLATION TO BE STUB OUTS AS INDICATED ON M2
- 4. ALL CONTROLS TO BE MANUFACTURED STANDARD DEVICES ELECTRIC/ELECTRONIC. ALL CONTROL WIRING BY ELECTRICAL CONTRACTOR.
- 5. IF POSSIBLE, M.C. TO REUSE EXISTING RTU ROOF CURB FOR RTU-A .
- 6. NEW RTU ROOF CURB AND ROOF REPAIR FOR RTU-B.
- 7. NEW RTU'S SHALL BE MINIMUM 14 SEER.

REQUIRED AIR FLOWS FROM IMC			
BASIS	SF	SUPPLY	CFM
ASSUME 38 PEOPLE		38x7.5/PER.	290
NET OCCUP. SALES AREA	2585	.12 CFM/SF	310
TOTAL REQUIRED O.A.			600
SUPPLIED BY RTU			640

SINGLE PACKAGE AIR CONDITIONING UNIT SCHEDULE									
MARK	MANUF	MODEL NO	TYPE	TOTAL kBTUH	SENSIBLE kBTUH	CFM	HEAT kBTU	FRSH AIR CFM	
RTU A	*	4-TON RTU	RTU	50	17.4	1600	85	245	@ 100 F DB 75F WB
RTU B	*	4-TON RTU	RTU	50	17.4	1600	85	245	@ 100 F DB 75F WB

1. M.C TO ADJUST RTU FOR PERFORMANCE REQUIRED PER SCHEDULE.

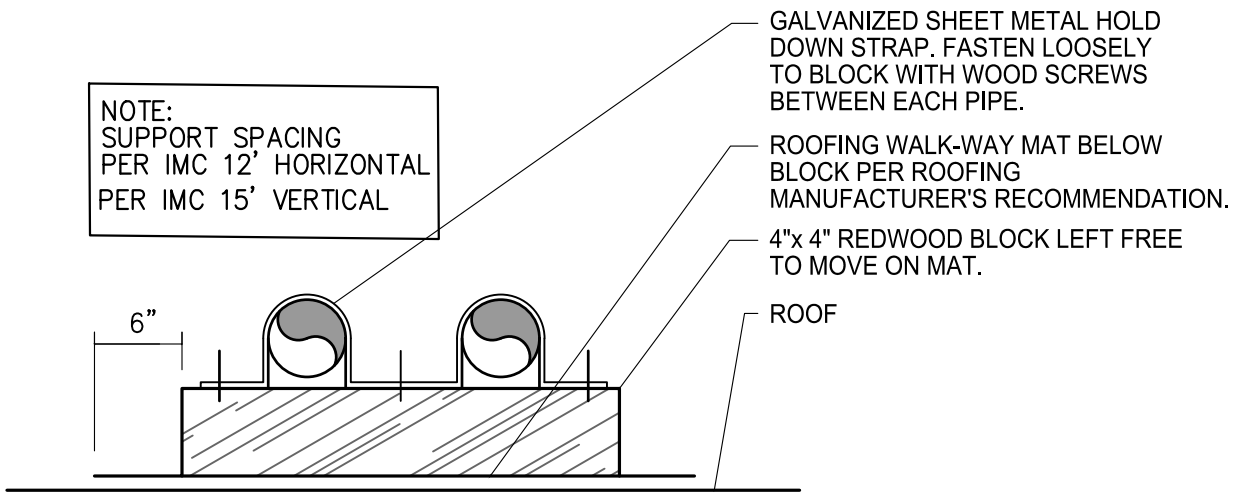
2. \* CARRIER, TRANE, OR EQUAL

3. ECONOMIZER

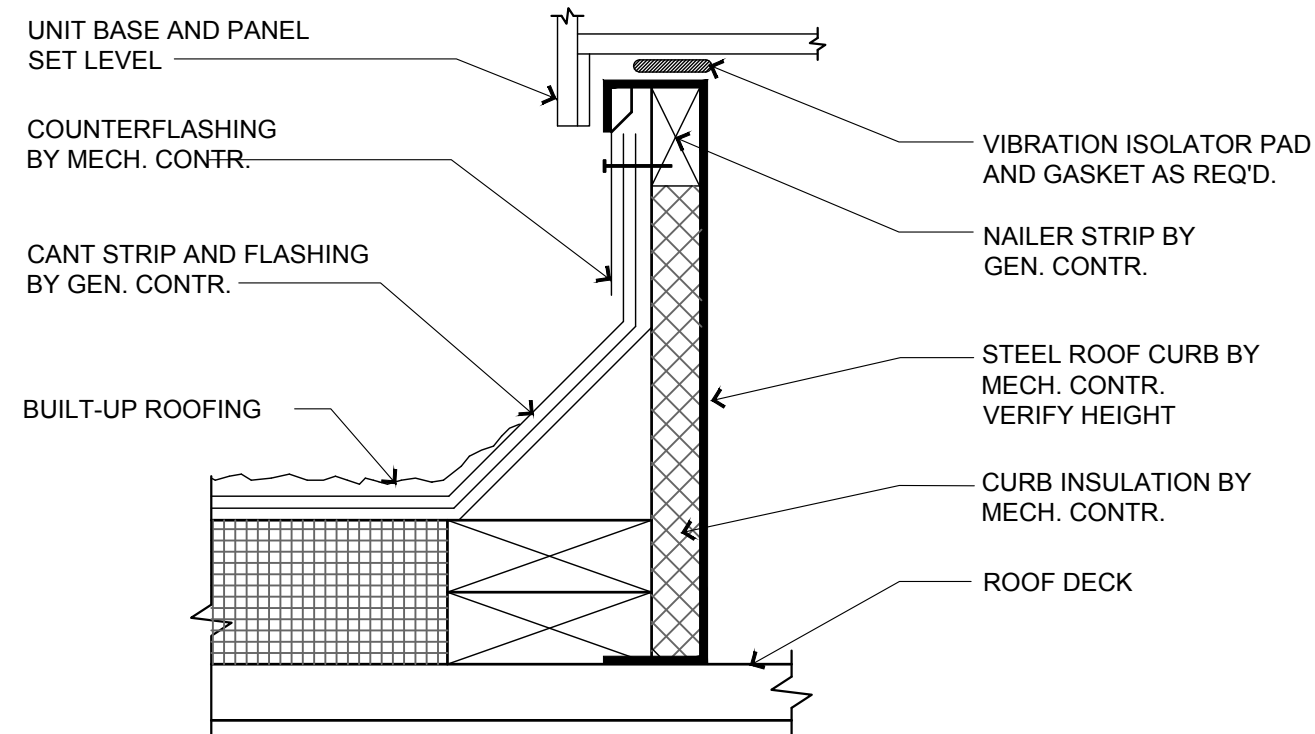
4. MINIMUM SEER 14.0

5. SMOKE DETECTORS ON RETURNS.

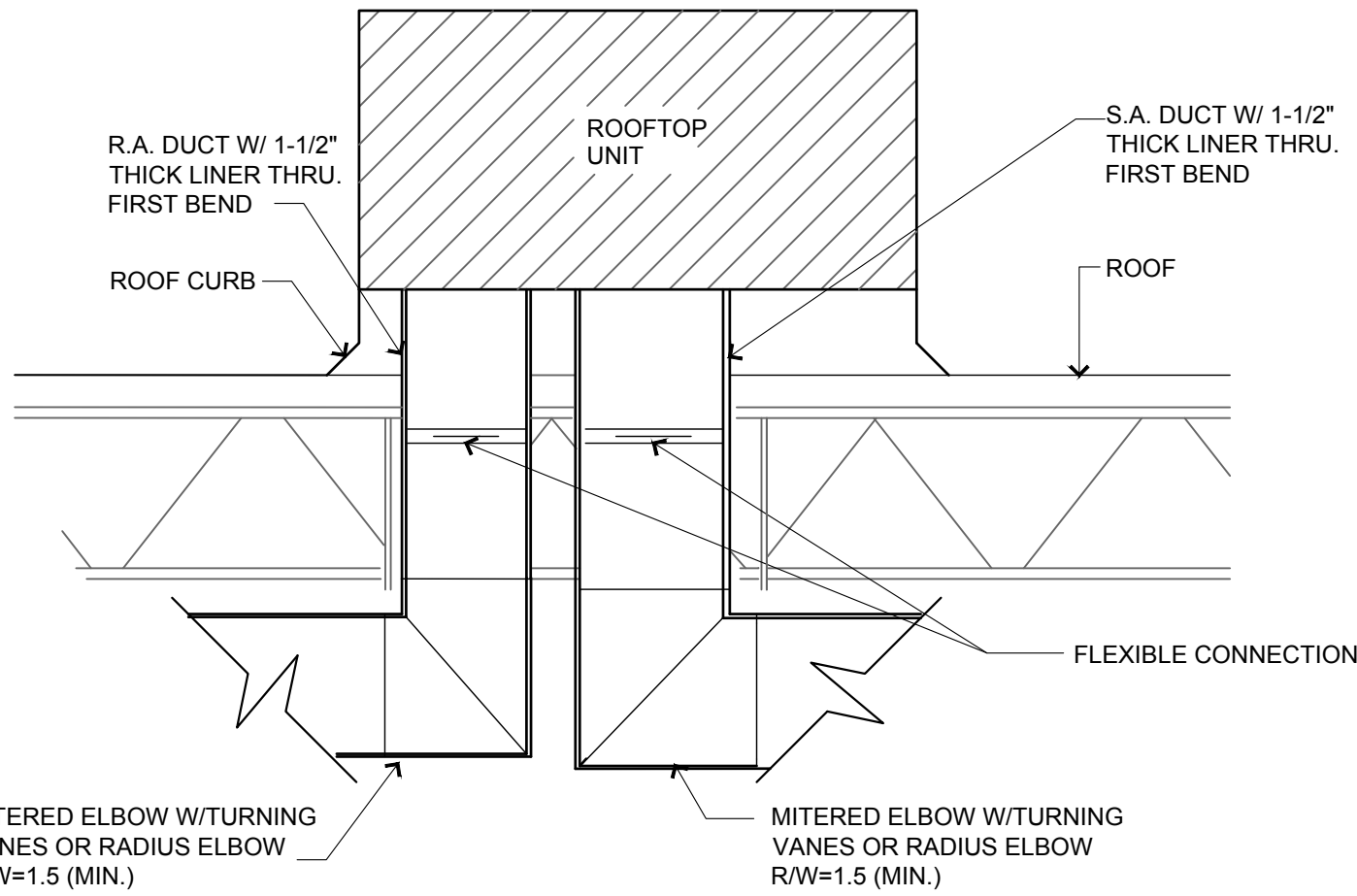
6. ELECTRONIC THERMOSTATS



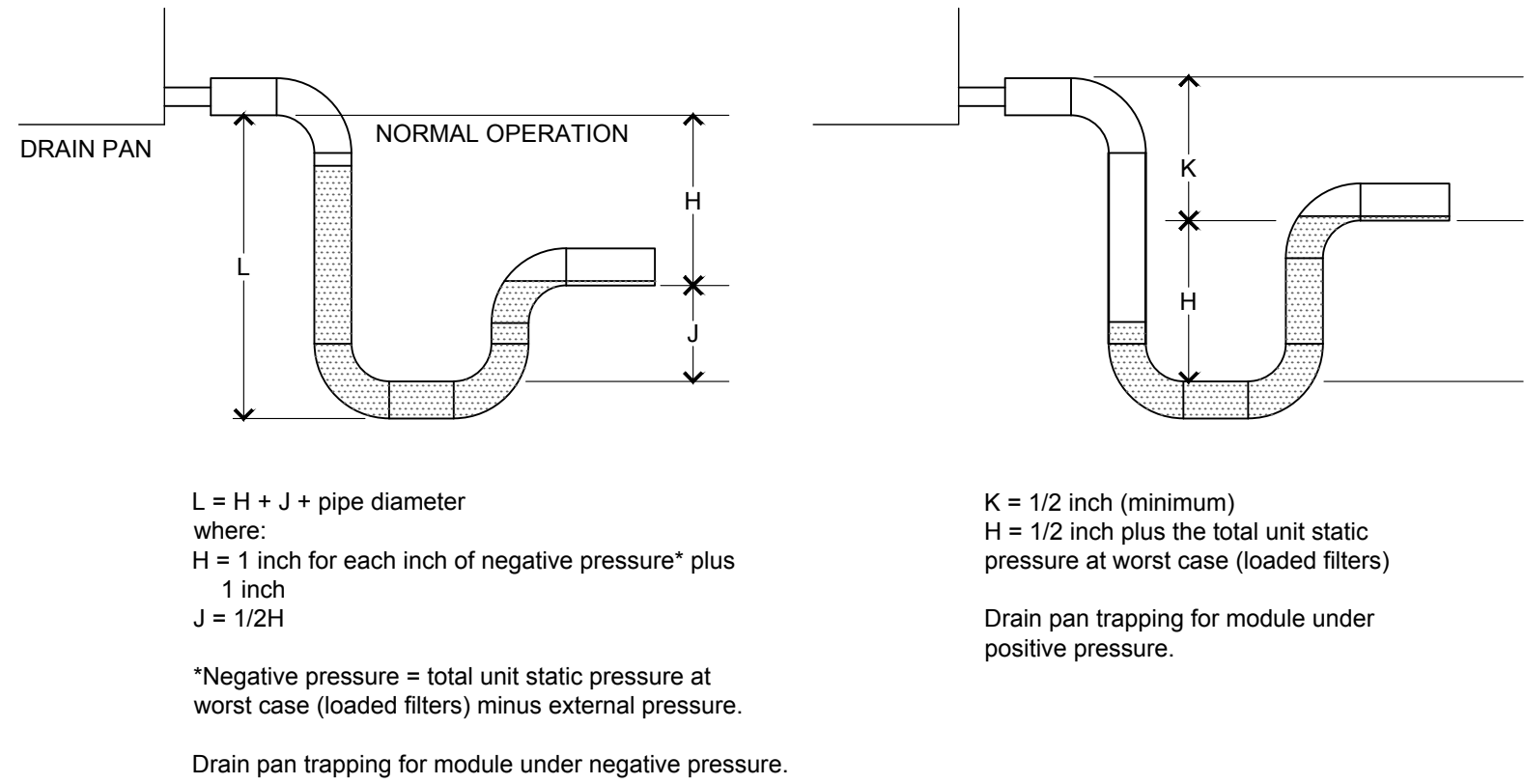
PIPE SUPPORT DETAIL  
SCALE: NTS



ROOFTOP UNIT CURB  
SCALE: NTS



RTU MOUNTING DETAIL  
SCALE: NTS



FAN COIL UNIT CONDENSATE TRAP  
SCALE: NTS

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Professional Engineer  
PAUL H. MEERS  
NUMBER  
E-26861  
REGISTERED PROFESSIONAL ENGINEER  
MISSOURI  
2/26/2020

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PROJECT INFORMATION

LANDLORD'S WORK

1041 NE SAM WALTON LANE

LEE'S SUMMIT, MISSOURI

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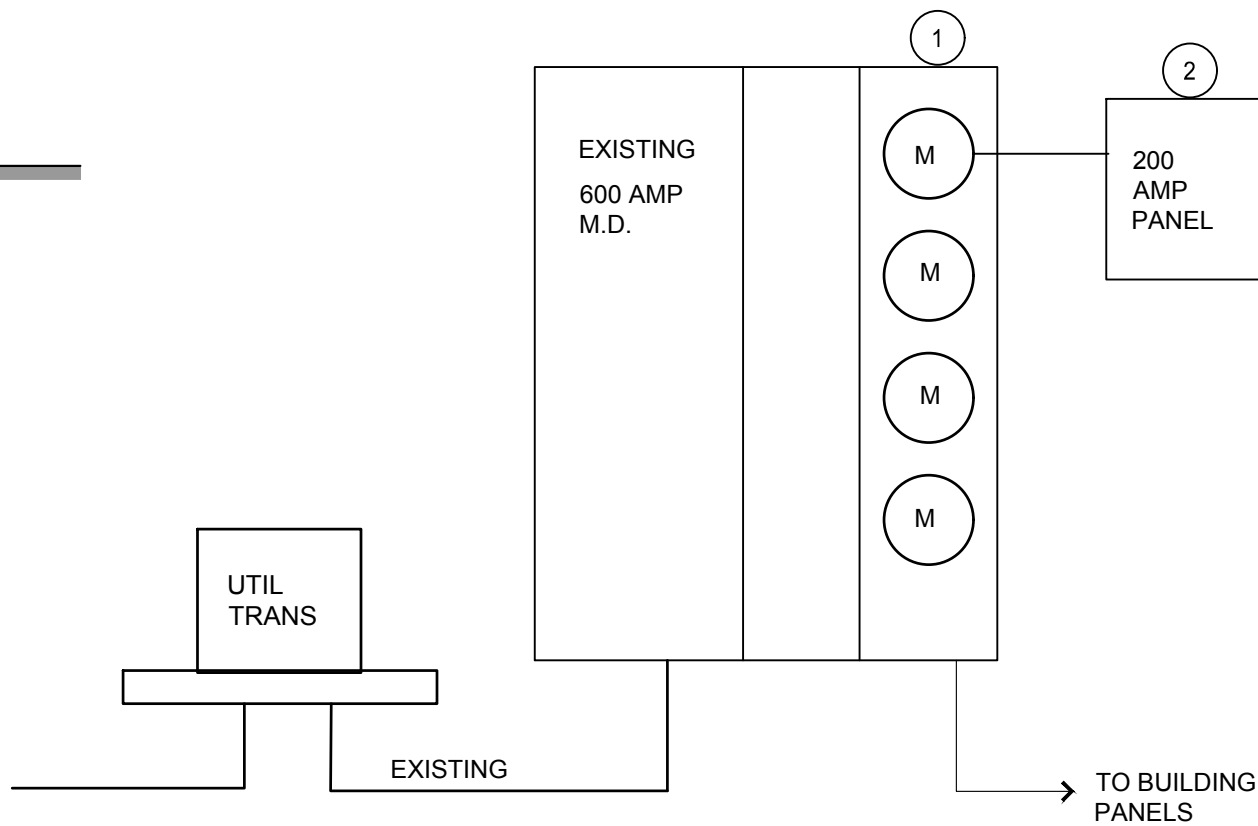
REVIEW

SHEET TITLE  
MECHANICAL  
NOTES &  
SCHEDULES

1. USE EXISTING PANEL BOARDS AND CIRCUITS AS MUCH AS POSSIBLE. COORDINATE WITH OWNER.
2. ALL ELECTRICAL WORK TO BE IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE.
3. MINIMUM WIRE SIZE SHALL BE #12 COPPER WITH THIN INSUL. WELD LOCATIONS SHALL BE THIN. BRANCH CIRCUITS SHALL BE WITH 3-M SCOTCHLOK OR 1&B "STA-KON" OR EQUAL.
4. ALL OUTLET AND JUNCTION BOXES SHALL BE STEEL WITH ACCESSORIES AS REQUIRED.
5. 120V RECEPTACLES SHALL BE HEAVY DUTY 20 AMP, 125 VOLT, DUPLEX NEMA 2-20R, COLOR TO BE SELECTED BY OWNER.
6. 208V/220V RECEPTACLES SHALL BE HEAVY DUTY 50 AMP, 250V, NEMA RATED TO MATCH PLUG.
7. REMOVE AND INSTALL INSULATED GROUND COPPER GROUND WIRES FOR EACH BRANCH CIRCUIT AND FOR GROUNDING EQUIPMENT AS PER NEC.
8. SWITCHES SHALL BE HEAVY DUTY, 20 AMP, 125 VOLT, COLOR AS DETERMINED BY OWNER.
9. POWER AND COMMUNICATIONS SHALL BE IN SEPARATE CONDUITS.
10. COMMUNICATION AND PHONE JACKS SHALL BE KEYSTONE OR EQUAL WALL MOUNTED OR FLOOR MOUNTED, WITH RJ-11 AND RJ-45 MODULAR JACKS. COLOR TO BE SELECTED BY OWNER.
11. GENERAL LIGHT LAYOUT IS INDICATED. CONTRACTOR TO FOLLOW LAYOUT FROM OWNER IF NO EXTRA LIGHTS ARE ADDED TO A CIRCUIT.
12. EXIT LIGHTS AND EMERGENCY LIGHTS TO BE ROUTED UN-SWITCHED IN SAME CIRCUIT AS ADJACENT LIGHTS AND UN-SWITCHED TO PANEL. MOUNT EXIT LIGHTS AT CEILING AND ABOVE DOORS.
13. ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROL WIRING BETWEEN THE EXHAUST FANS AND THEIR RESPECTIVE SWITCHES AND THERMOSTATS.
14. ALL WIRING METHODS TO INCLUDE EFFECTIVE GROUND FAULT PATH WITH METALLIC ARMOR OR SHEATH.
15. COMPLY WITH ALL REQUIREMENTS OF NEC 2011 ART. 517.13 (A) AND (B)
16. FIRE ALARM STROBE LIGHTS SHALL COMPLY WITH NFPA 72-10.

# RISER NOTES

- 1 REMOVE 3 METER BANK AND REPLACE W/ 4 METER BANK
- 2 EXISTING PANEL IN SPACES TYP.
- 3



1

# ELECTRICAL POWER PLAN

SCALE: 1/8" = 1'-0"  
RE: ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS

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

**05/06/2020**

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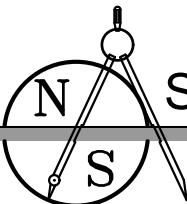
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SHEET TITLE

# ELECTRICAL POWER PLAN, NOTES & SCHEDULES




SHEET NUMBER

# E1

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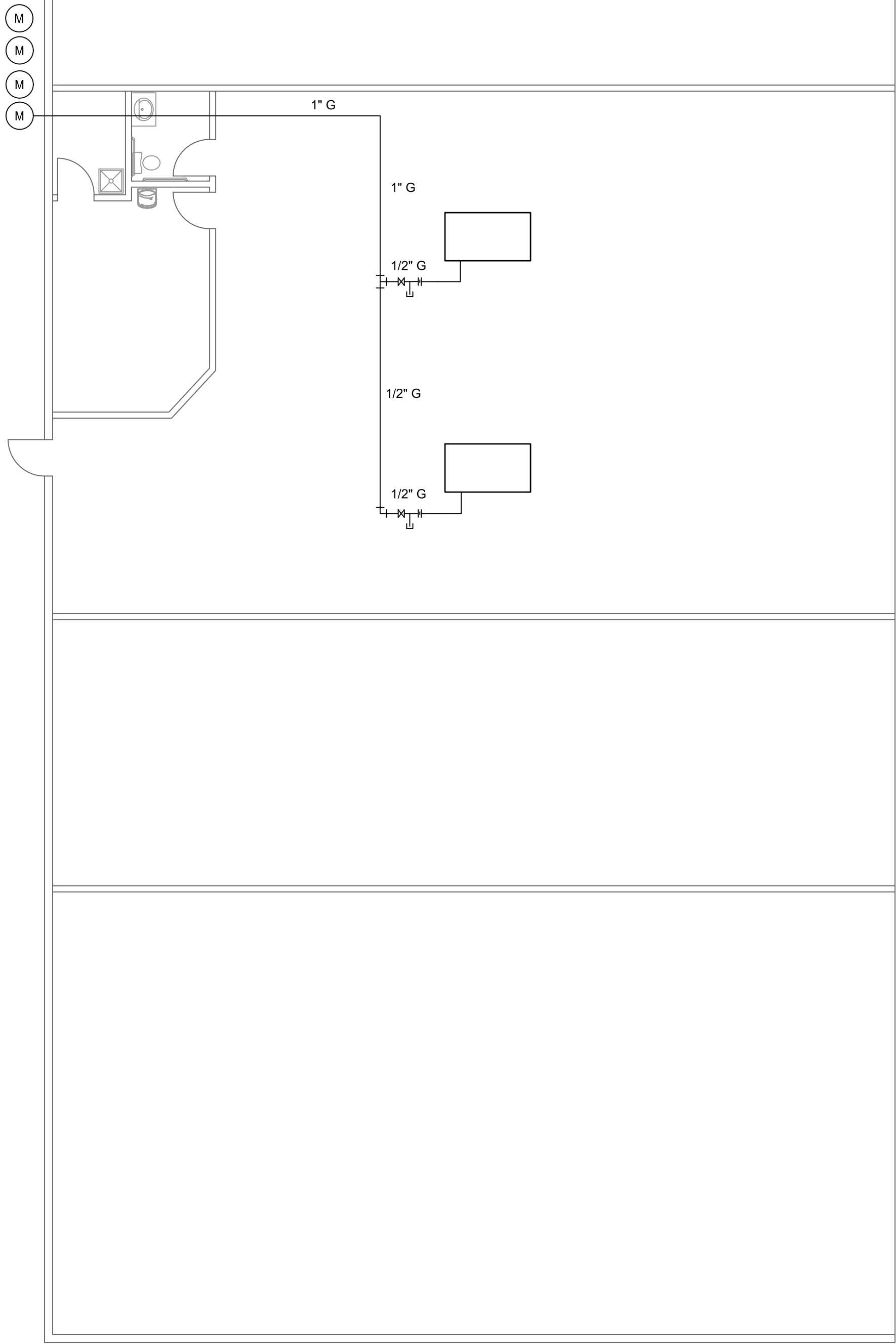
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GAS LINE NOTES

- 1. COORDINATE WITH ALL OTHER TRADES.
- 2. ALL PIPING TO BE INSTALLED PER THE 2018 IFGC.
- 3. PIPING TO BE ASTM A53, GR B SCHEDULE 40.



1

PLUMBING PLAN

SCALE: 1/4" = 1'-0"  
RE: ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS

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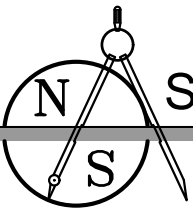
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PLUMBING PLAN

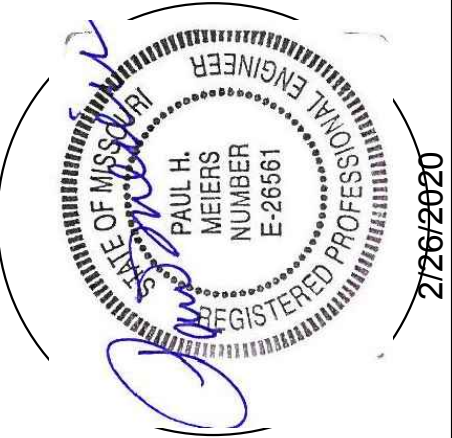


SHEET NUMBER

P1

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