

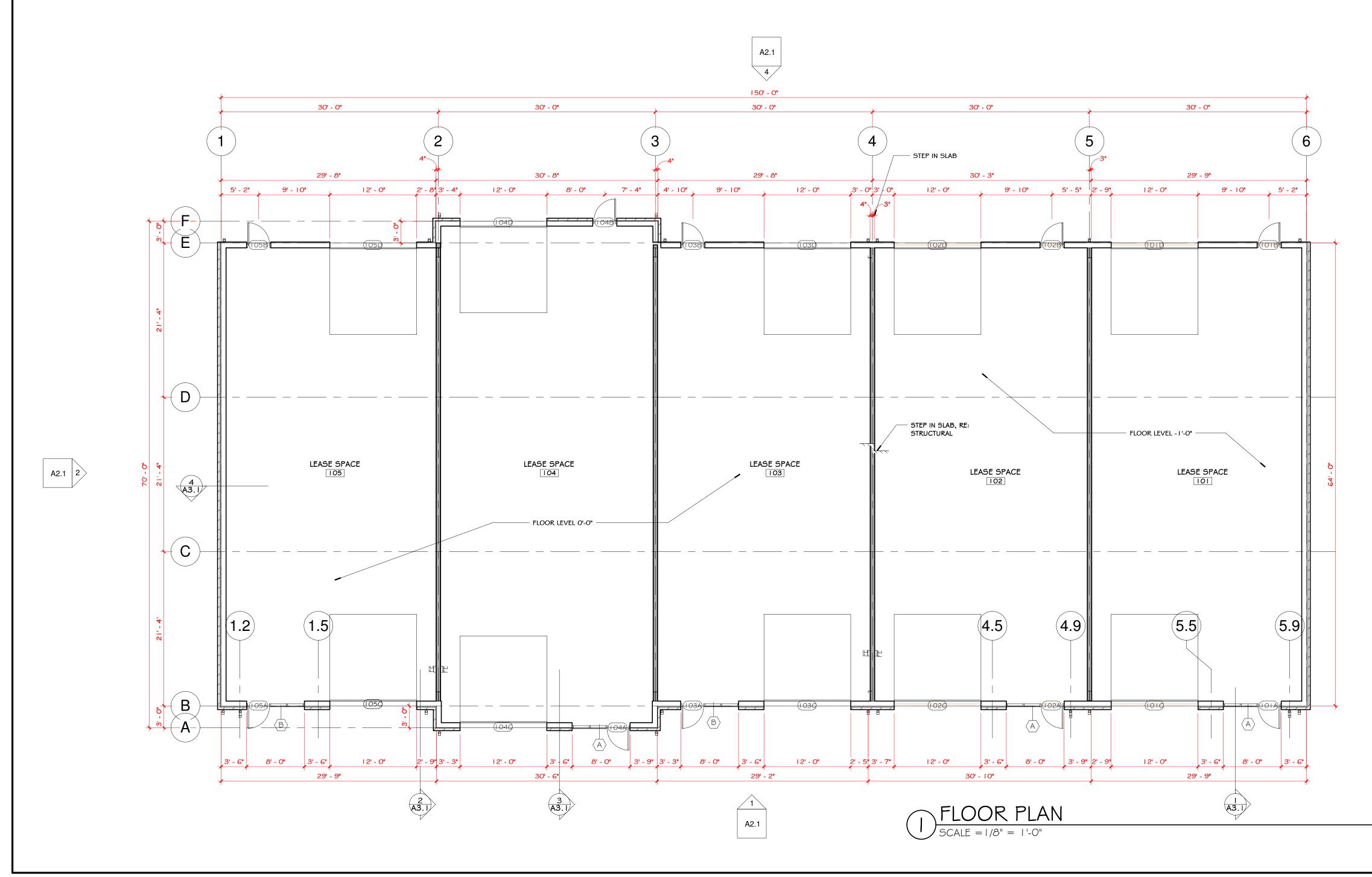
<u>BUILDING CODE:</u>	2012 ARKANSAS FIRE PREVENTION CO (2012 IBC WITH AMENDMENTS) 2017 NATIONAL ELECTRICAL CODE 2006 ARKANSAS PLUMBING CODE 2006 ARKANSAS STATE FUEL & GAS CO 2010 ARKANSAS MECHANICAL CODE 2011 ARKANSAS ENERGY CODE 2009 ANSI A-117.1	
OCCUPANCY (Chapt	er 3 Use and Occupancy)	B-BUSINESS
	FRAME ARING WALLS N-BEARING WALLS N-BEARING WALLS	IIIB - NOT SPRINKLERED NON-COMBUSTIBLE- 0 HR COMBUSTIBLE- 0 HR NON-COMBUSTIBLE- 0 HR COMBUSTIBLE- 0 HR COMBUSTIBLE- 0 HR
IRE SEPARATION DIS NORTH EAST SOUTH WEST	STANCES:	20' >30' 20' >30'
ALLOWABLE # AREA INCREA If= [F/P -0.25]W AREA INCREA (one story), Is = TOTAL ALLOW OTAL ENCLOSED AF OTAL OCCUPANTS: B-BUSINESS, MEANS OF EGRESS S (1005.3.1) STA (1005.3.2) 98 P 10 DOORS x 33	SF PER FLOOR. ( <i>Table 503</i> ) = # FLOORS ( <i>Table 503</i> ) = SE DUE TO FRONTAGE ( <i>506.1</i> ) //30 = SE DUE TO SPRINKLERS ( <i>506.3</i> ) = A x 3 = /ABLE AREA PER FLOOR ( <i>506.2</i> ) = <b>REA:</b> ( <i>Table 1004.1.2</i> ) 100 GROSS = 9,784 sf / 100 sf= <b>SZING:</b> (1005) IRWAYS #PEOPLE x .3" PEOPLE x .2" / PERSON =	19,000sf 3 FLOORS N/A N/A 19,000 sf 9,784 sf 98 PEOPLE N/A 19.6" REQUIRED 320" PROVIDED
# A0.0 COVER S A1.1 FLOOR P A1.2 ROOF PL A2.1 ELEVATION A3.1 WALL SE S0 STRUCTON DETAILS	PLAN AN & SCHEDULES ONS CTIONS URAL NOTES &	
P000PLUMBINP100PLUMBINP500PLUMBINP600SEWER FP700PLUMBINE000ELECTRIE100LIGHTINOE101POWER FE600PANEL S	IG DETAILS RISER IG SPECS CAL NOTES G PLAN	
	IDERSTOOD THAT THE ARCHITECT SHAL ERVICES, UNLESS, AND ONLY TO THE EX ITIONAL SERVICES. ACCORDINGLY, THE	XTENT SPECIFICALLY REQUESTED BY E ARCHITECT SHALL NOT BE LIABLE TO FOR OR THROUGH THE CLIENT OR THE
THE CLIENT AS ADD THE CLIENT, TO THE OWNER, FOR ERRO UPON THE EXERCIS CONSTRUCTION OF THE OWNER OR TO ANY CHANGES IN DE WRITTEN APPROVA HARMLESS, INDEMN CAUSES OF ACTION OF REASONABLE CA WHICH ARE NOT BR FURTHER WORK IS APPROVED IN WRIT	RS OR OMISSIONS IN THE CONSTRUCTIONS SE OF REASONABLE CARE SHOULD HAV WORK. LIKEWISE, THE ARCHITECT SHAP ANY PARTY WORKING FOR OR THROUC ESIGN OR CONSTRUCTION MADE DURIN L OF THE ARCHITECT. THE CLIENT AND/ON NIFY AND DEFEND THE ARCHITECT FROM FOR COST OR DAMAGES WHICH a) ARE ARE SHOULD HAVE BEEN DISCOVERED EN OUGHT TO THE ARCHITECT'S ATTENTION	YE BEEN, DISCOVERED DURING THE ALL NOT BE LIABLE TO THE CLIENT, TO GH THE CLIENT OR THE OWNER, FOR IG CONSTRUCTION WITH-OUT THE PRIOR OR THE OWNER SHALL HOLD M AND AGAINST ANY AND ALL CLAIMS OR E DISCOVERED OR UPON THE EXERCISE BY THE OWNER OR CONTRACTOR, AND ON FOR REVIEW AND ACTION BEFORE IN CONSTRUCTION AND/OR DESIGN NOT ERRORS OR OMISSIONS OF THE

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PE	RN	/IT	SET

Revision Schedule	Description		
Revi	Date		
	Rev.#		
NEW OFFICE WAREHOUSE 5-BAY BLDG. 2247 WORTH LANE SPRINGDALE, ARKANSAS		MTNWA INVESTMENTS, LLC 1457 E. ROBINSON AVE. SPRINGDALE, AR 72764	
<b>DATE</b> 06/01/22		DRAWN BY ELP	
	<b>DJECT #</b> 2169	CHECKED BY JTK	
A0.0			
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				Doo	r Schedule					
				F	rame	[	Door			
Mark	Room Name	Width	Height	Туре	Finish	Туре	Finish	Glazing	Comments	
101A	LEASE SPACE	3' - 0"	7' - 0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP		
101B	LEASE SPACE	3' - 0"	7' - 0"	HM	PT	HM	PT			
101C	LEASE SPACE	12' - 0"	12' - 0"						1	
101D	LEASE SPACE	12' - 0"	12' - 0"						1	
102A	LEASE SPACE	3' - 0"	7' - 0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP		
102B	LEASE SPACE	3' - 0"	7' - 0"	HM	PT	HM	PT			
102C	LEASE SPACE	12' - 0"	12' - 0"						1	
102D	LEASE SPACE	12' - 0"	12' - 0"						1	
103A	LEASE SPACE	3' - 0"	7' - 0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP		
103B	LEASE SPACE	3' - 0"	7' - 0"	HM	PT	HM	PT			
103C	LEASE SPACE	12' - 0"	12' - 0"						1	
103D	LEASE SPACE	12' - 0"	12' - 0"						1	
104A	LEASE SPACE	3' - 0"	7' - 0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP		
104B	LEASE SPACE	3' - 0"	7' - 0"	HM	PT	HM	PT			
104C	LEASE SPACE	12' - 0"	12' - 0"							
104D	LEASE SPACE	12' - 0"	12' - 0"							
105A	LEASE SPACE	3' - 0"	7' - 0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP		
105B	LEASE SPACE	3' - 0"	7' - 0"	HM	PT	HM	PT			
105C	LEASE SPACE	12' - 0"	12' - 0"						1	
105D	LEASE SPACE	12' - 0"	12' - 0"						1	

### GENERAL NOTES

I. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE MUNICIPALITY AND ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

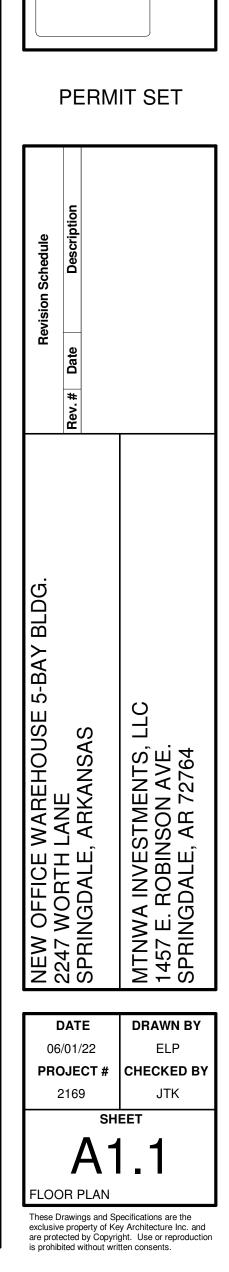
- ALL WORK AND ALL FINISHES, INCLUDING TYPE, COLOR AND LOCATION, SHALL BE COORDINATED WITH THE OWNER.
   ALL DIMENSIONS ARE TO CENTERLINE OF COLUMNS, FACE OF BUILDING LINE OR STUD, TYPICAL, UNLESS NOTED OTHERWISE (U.N.O.). WHEN NOTED AS EXISTING THE DIMENSIONS SHOWN ARE TO FACE OF EXISTING FINISH PRIOR TO START OF CONSTRUCTION.
- 4. VERIFY ALL DIMENSIONS, DOOR AND WINDOW SIZES AND LOCATIONS PRIOR TO LAYOUT WITH THE OWNER. COORDINATE ALL OWNER PROVIDED EQUIP.
  5. ALL DOOR AND WINDOW DIMENSIONS ARE NOMINAL AND MUST BE COORDINATED WITH MANUFACTURES. ROUGH OPENING
- DIMENSIONS ARE TO BE COORDINATED WITH DOOR AND WINDOW SHOP DRAWINGS.6. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO
- START OF WORK. CONTRACTOR TO NOTIFY ARCHITECT TO ANY DISCREPANCY WITH THE PLANS AND SPECIFICATIONS PRIOR TO BEGINNING WORK.
  7. PROVIDE FIRE EXTINGUISHERS PER NFPA- I O AND COORDINATE
- WITH LOCAL BUILDING AND/OR FIRE OFFICIALS.
  8. PROVIDE KNOX BOX ON EXTERIOR OF BUILDING, COORDINATE EXACT LOCATION WITH LOCAL BUILDING AND/OR FIRE OFFICIALS.
  9. PROVIDE WOOD BLOCKING IN STUD WALLS FOR ANCHORAGE OF GRAB BARS, PAPER HOLDERS, VANITIES, WALL MOUNTED DOOR
- STOPS, SINKS, SHELVING, TELEVISIONS ETC. COORDINATE WITH OWNER PRIOR TO COVER-UP. I O. PROVIDE BATT INSULATION AT ALL EXTERIOR WALLS AND SOUND ATTENUATION BLANKETS AT ALL NEW WALLS AT TOILET AREAS
- UNLESS NOTED OTHERWISE. I I. PROVIDE I 1/2" RIGID INSULATION FULL HEIGHT AT PERIMETER OF BUILDING STEM WALLS & BASEMENT WALLS, AND FOR 2'-0" HORIZONTAL UNDER SLABS. INSULATION SHALL MEET ALL STATE AND LOCAL ENERGY CODES. I 2. TOILET ROOM TO BE PROVIDED WITH FORCED AIR VENTILATION
- TO THE EXTERIOR. 13. PROVIDE ROOM SIGNAGE AT ALL DOORS AS REQUIRED BY THE INTERNATIONAL BUILDING CODE, ANSI A 1 17.1, AND THE AMERICANS WITH DISABILITY ACT. COORDINATE WITH OWNER FOR NAMES, NUMBERS, STYLE AND TYPE OF SIGN. ALL SIGNAGE TO HAVE RAISED BRAILLE CHARACTERS AS REQUIRED.

## GENERAL DOOR & WINDOW NOTES

- ALL DOORS, WINDOWS AND FRAMES TO BE FINISHED PER
- OWNER'S REQUIREMENTS. . ALL DOOR AND WINDOW DIMENSIONS ARE TO THE FINISHED FRAME UNLESS OTHERWISE NOTED. IT IS THE CONTRACTORS
- RESPONSIBILITY TO COORDINATE AND VERIFY ROUGH OPENINGS WITH WINDOW MANUFACTURES SHOP DRAWINGS. ALL DOOR AND WINDOW TYPES AND MANUFACTURER TO BE DETERMINED BY THE OWNER.
- ALL HARDWARE TO COMPLY WITH REQUIREMENTS FOR EGRESS AND ACCESSIBILITY.
  PROVIDE THRESHOLD AT ALL FLOOR FINISH TRANSITIONS, TYPICAL U.N.O. VERIFY TYPES AND LOCATIONS WITH THE
- OWNER. THRESHOLDS SHALL BE NO MORE THAN 1/2" IN HEIGHT AND PROVIDE FOR ACCESSIBLE PASSAGE. G. REFER TO PLAN AND/OR DOOR SCHEDULE FOR DOOR SIZES AND
- NOTES ON SPECIAL DOOR TYPES. 7. ALL MULTI-USE TOILET ROOMS TO BE PROVIDED SELF-CLOSING

### GENERAL FINISH NOTES

- . WALL FINISH SHALL BE SMOOTH FINISH, NO TEXTURE, PAINTED,
- UNLESS NOTED OTHERWISE (U.N.O.). 2. ALL FINISHES TO BE COORDINATED WITH THE OWNER, INCLUDING
- TYPE, COLOR AND LOCATION. PROVIDE FINISH TOE KICK OR BASE TRIM AT BASE CABINETS FOR CABINET BASE AND WALL BASE AS PER FINISH SCHEDULE OR NOTES. COORDINATE WITH OWNER.
- PROVIDE CORNER GUARDS PER SPEC AT ALL OUTSIDE SHEET ROCK CORNERS TYPICAL.



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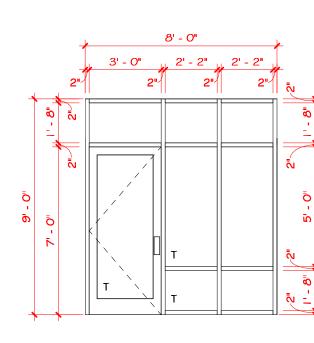
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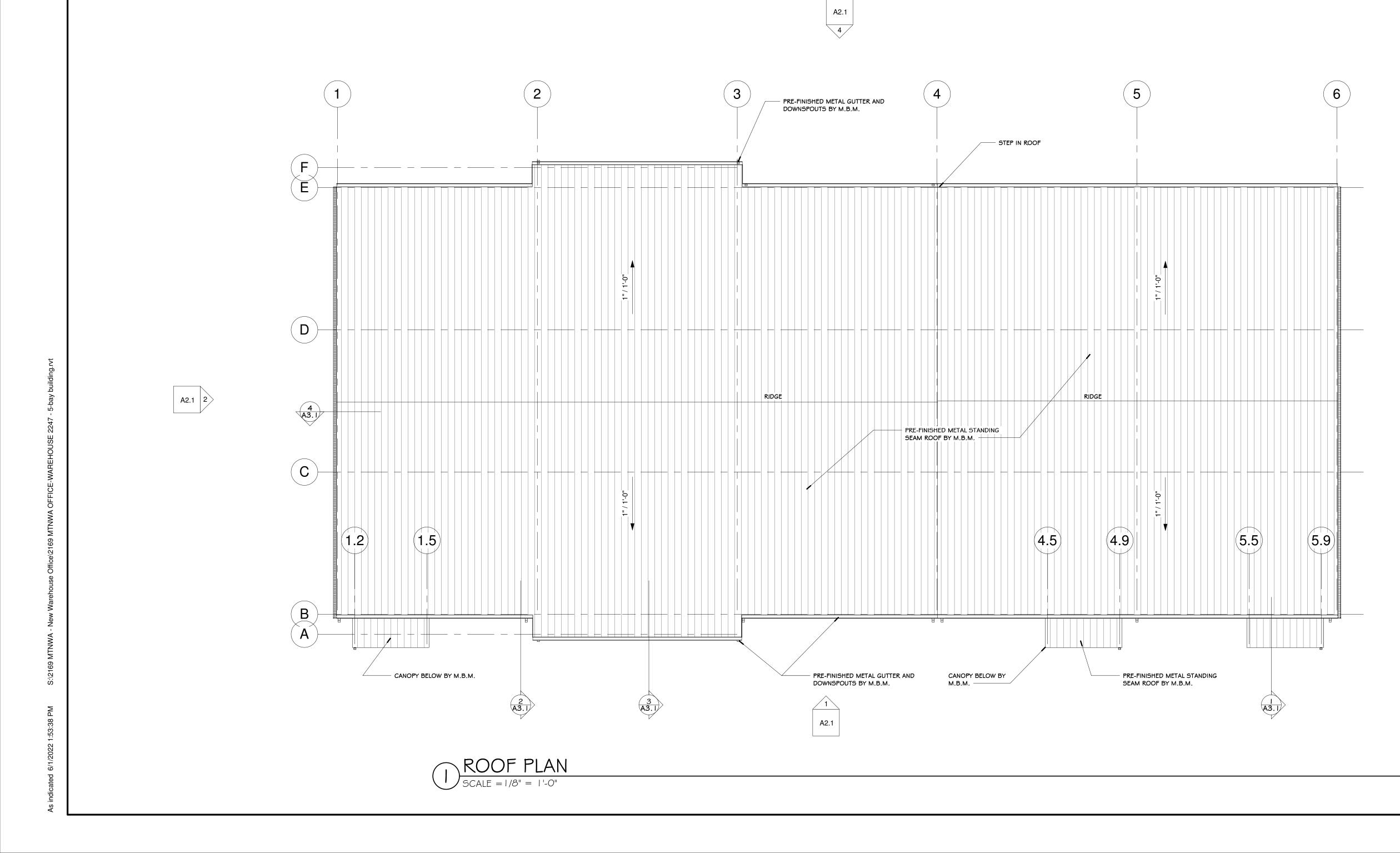
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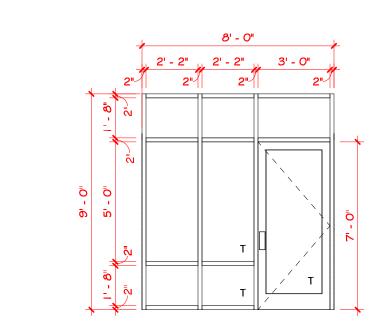




STOREFRONT ELEVATION - B



				Door	r Schedule				
				Fr	ame	[	Door		
Mark	Room Name	Width	Height	Туре	Finish	Туре	Finish	Glazing	Comments
101A	LEASE SPACE	3' - 0"	7' - 0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP	
101B	LEASE SPACE	3' - 0"	7' - 0"	HM	PT	HM	PT		
101C	LEASE SPACE	12' - 0"	12' - 0"						1
101D	LEASE SPACE	12' - 0"	12' - 0"						1
102A	LEASE SPACE	3' - 0"	7' - 0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP	
102B	LEASE SPACE	3' - 0"	7' - 0"	HM	PT	HM	PT		
102C	LEASE SPACE	12' - 0"	12' - 0"						1
102D	LEASE SPACE	12' - 0"	12' - 0"						1
103A	LEASE SPACE	3' - 0"	7' - 0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP	
103B	LEASE SPACE	3' - 0"	7' - 0"	HM	PT	HM	PT		
103C	LEASE SPACE	12' - 0"	12' - 0"						1
103D	LEASE SPACE	12' - 0"	12' - 0"						1
104A	LEASE SPACE	3' - 0"	7' - 0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP	
104B	LEASE SPACE	3' - 0"	7' - 0"	HM	PT	HM	PT		
104C	LEASE SPACE	12' - 0"	12' - 0"						
104D	LEASE SPACE	12' - 0"	12' - 0"						
105A	LEASE SPACE	3' - 0"	7' - 0"	ALUM	CL-ANO	ALUM	CL-ANO	TEMP	
105B	LEASE SPACE	3' - 0"	7' - 0"	HM	PT	HM	PT		
105C	LEASE SPACE	12' - 0"	12' - 0"						1
105D	LEASE SPACE	12' - 0"	12' - 0"						1



STOREFRONT ELEVATION - A

## 3

CLEAR ANODIZED ALUMINUM FRAMES I" DOUBLE PANE INSULATED GLAZING T = TEMPERED PANELS SEAL SECTION S



PERMIT SET

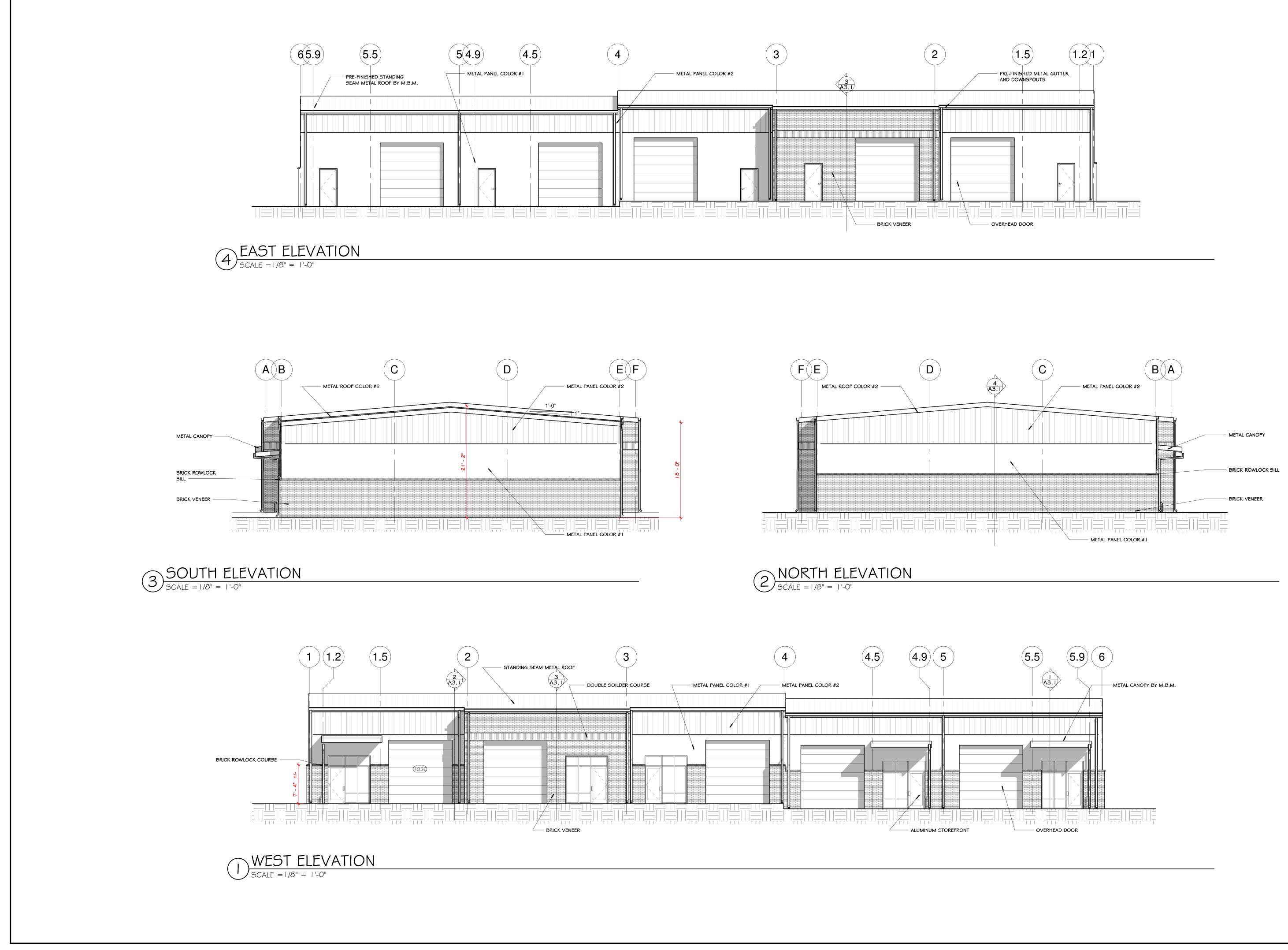
Revision Schedule	Rev. # Date Description	
NEW OFFICE WAREHOUSE 5-BAY BLDG.	SPRINGDALE, ARKANSAS	MTNWA INVESTMENTS, LLC 1457 E. ROBINSON AVE. SPRINGDALE, AR 72764
06 PRC	DATE /01/22 DJECT # 2169	DRAWN BY ELP CHECKED BY JTK
ROOI	A	ILC SCHEDULES
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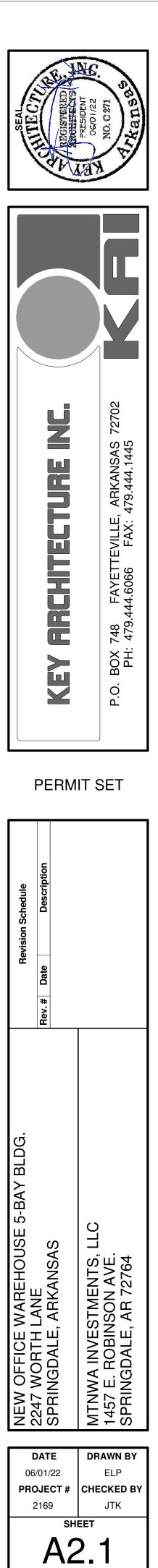
 KEYED DOOR NOTES:
 I. PRE-FINISHED METAL INSULATED SECTIONAL OVERHEAD DOORS

 I. ALL DOORS, WINDOWS AND FRAMES TO BE FINISHED PER OWNER PEOLUPEMENTS

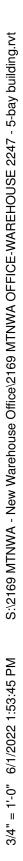
- ALL DOORS, WINDOWS AND FRAMES TO BE FINISHED PER OWNER'S REQUIREMENTS.
   ALL DOOR AND WINDOW DIMENSIONS ARE TO THE FINISHED FRAME UNLESS OTHERWISE NOTED. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE AND VERIFY ROUGH OPENINGS WITH WINDOW MANUFACTURES SHOP DRAWINGS.
- WITH WINDOW MANUFACTURES SHOP DRAWINGS. ALL DOOR AND WINDOW TYPES AND MANUFACTURER TO BE DETERMINED BY THE OWNER.
- ALL HARDWARE TO COMPLY WITH REQUIREMENTS FOR EGRESS AND ACCESSIBILITY.
  PROVIDE THRESHOLD AT ALL FLOOR FINISH TRANSITIONS, TYPICAL U. N. O. VERIEY TYPES AND LOCATIONS WITH THE
- TYPICAL U.N.O. VERIFY TYPES AND LOCATIONS WITH THE OWNER. THRESHOLDS SHALL BE NO MORE THAN 1/2" IN HEIGHT AND PROVIDE FOR ACCESSIBLE PASSAGE. REFER TO PLAN AND/OR DOOR SCHEDULE FOR DOOR SIZES AND
- NOTES ON SPECIAL DOOR TYPES. 7. ALL MULTI-USE TOILET ROOMS TO BE PROVIDED SELF-CLOSING

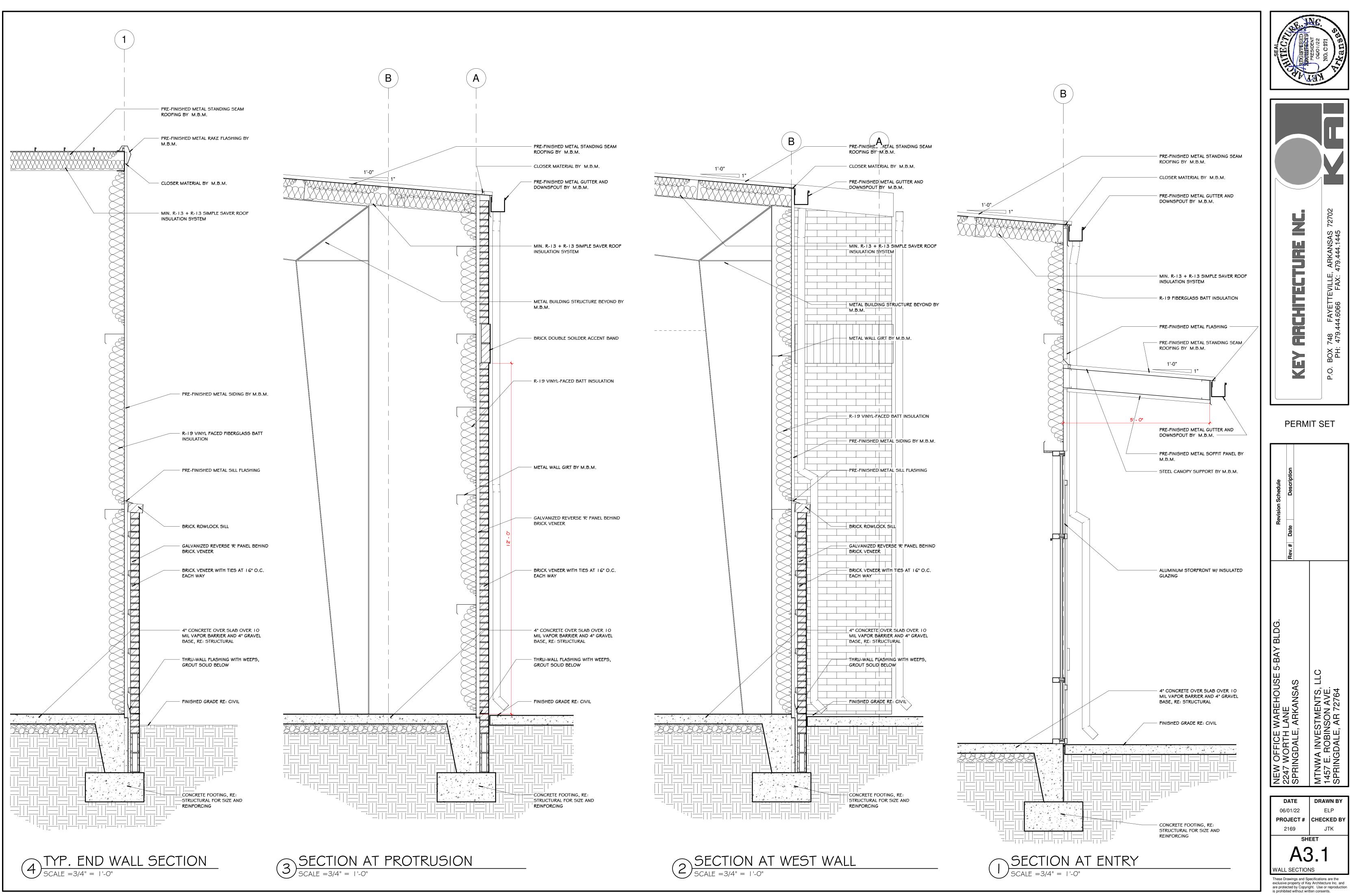
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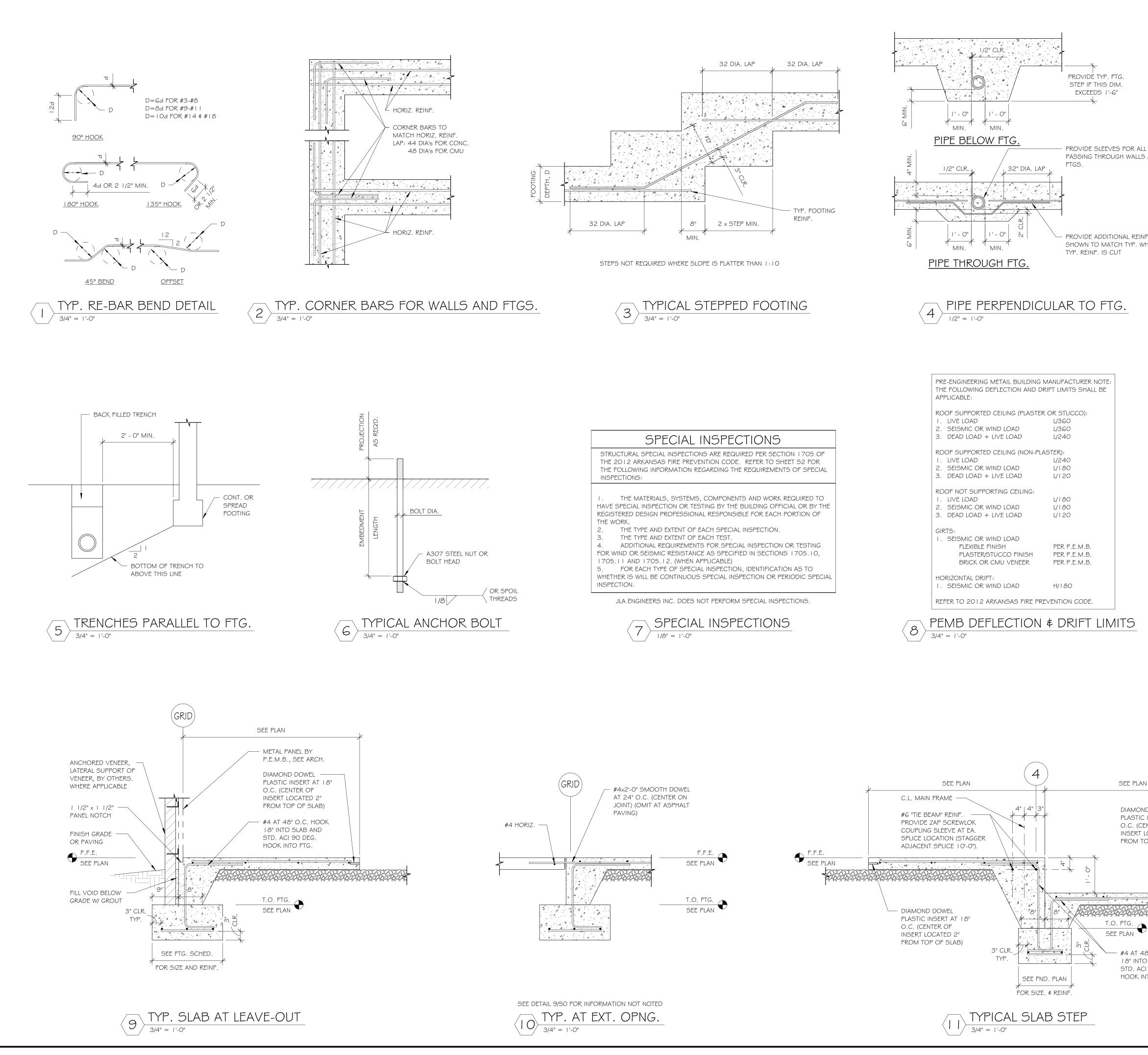


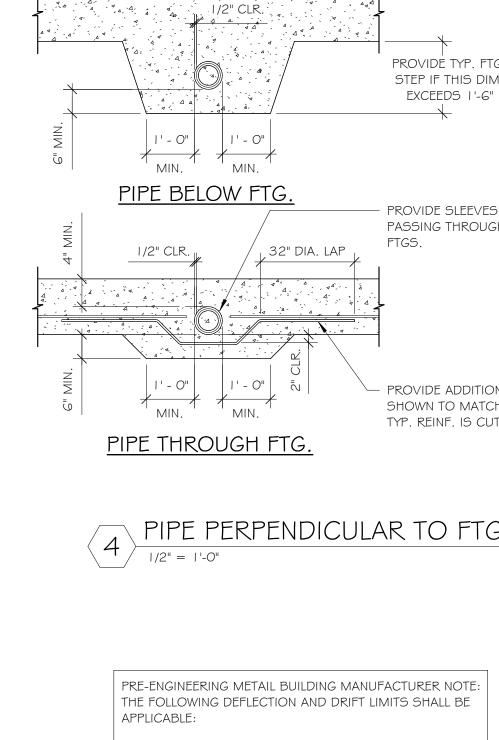
ELEVATIONS These Drawings and Specifications are the exclusive property of Key Architecture Inc. and are protected by Copyright. Use or reproduction is prohibited without written consents.

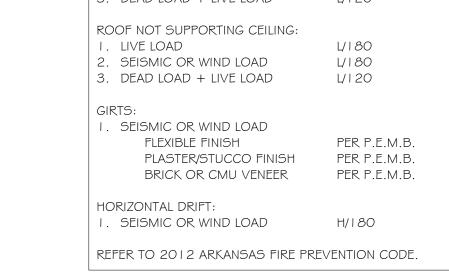












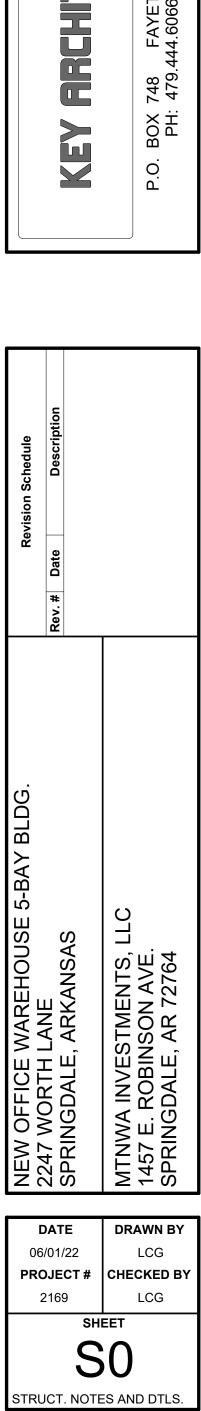


		STRUCTUR	RAL NO	TES	111
	١.	ALL ELEVATIONS ARE GIVEN WITH REFERENCE	O FINISH FLOOR DAT	UM 100'-0".	SAS SAS TER
	2.	ALL STRUCTURAL SELECT FILL SHALL BE APPRO TO 95% OF THE MAXIMUM DRY DENSITY PER S			NGINE NGINE
	3.	FOOTINGS ARE TO BEAR ON FIRM RED, TAN A WITH SAND OR STRUCTURAL SELECT FILL. ALL			
FTG. DIM.	4.	FOOTING ELEVATIONS NOTED ARE FOR BIDDIN OBTAIN THE SPECIFIED BEARING CAPACITY AN		IALL BE LOWERED AS NECESSARY TO	<u>}</u>
-6"	5.	THE FOUNDATION IS DESIGNED FOR A BEARIN AND 2000 PSF FOR ISOLATED COLUMN FOOT TO BOTTOM OF FOOTING AT EXTERIOR CONDI BY MTA ENGINEERS, INC.	INGS. PROVIDE 24" N	11N. FROM FINISH GRADE OR PAVING	
/ES FOR ALL PIPES	6.	CONCRETE SHALL HAVE A 28 DAY STRENGTH FOLLOWS:	MAXIMUM SLUMP A	ND MAXIMUM AGGREGATE SIZE AS	
UGH WALLS AND		FOOTINGS AND STEMWALLS: INTERIOR SLAB: EXTERIOR SLAB:	3000 PSI - 6" SLUN 3000 PSI - 4" SLUN 3500 PSI - 4" SLUN	IP - 1" AGG.	
		ALL CONCRETE EXPOSED TO FREEZE/THAW SH. SHALL CONFORM TO GRADE GO ASTM A-G I 5. MINIMUM, UNLESS NOTED OTHERWISE.			
	7.	VERIFY ALL DIMENSIONS, SLOPES, DEPRESSIO	NS, EMBEDMENTS ET	C. BEFORE PLACING CONCRETE.	
TIONAL REINF. AS TCH TYP. WHERE	8.	LAP ALL UNDER-SLAB VAPOR BARRIER SHEETS	A MINIMUM OF 6" A	ALL SPLICES.	<b>L</b>
CUT	9.	PROVIDE SLAB CONTROL JOINTS (CJ) WHERE I SLAB DEPTH AND SHALL BE ONE OF THE FOLL		C.J.'S SHALL BE APPROX. 1/4 OF THE	
-0		<ul> <li>A. SAWCUT AS SOON AS POS WITHIN 12 HOURS OF POL</li> <li>B. ZIP CAP TYPE JOINT FORMIC</li> </ul>	R. R.		
G.		C. TOOLED JOINTS FOR EXTER CONST. JOINTS W/ 3/8"x4 1/2" PNA DIAMOND CONTROL JOINT AND SHALL BE USED WHERE I	DOWELS AT 18" O.C.		
	10	. P.E.M.B. MANUF. SHALL BE RESPONSIBLE FOR VENEER.			
_		. DESIGN CRITERIA CODE: 2012 ARKANSAS FIRE PREVENTION CC	DE		
		ROOF LIVE LOAD: ROOF DEAD LOAD: ROOF COLLATERAL LOAD:	20 F PER	°SF P.E.M.B. P.E.M.B.	KEY ARCHITEC
		SNOW LOAD GROUND SNOW LOAD, Pg: FLAT ROOF SNOW LOAD, Pf.: DESIGN ROOF SNOW LOAD: SNOW EXPOSURE FACTOR, Ce: SNOW LOAD IMPORTANCE FACTOR, IS THERMAL FACTOR, Ct:	1.0		
		WIND LOAD BASIC WIND SPEED Vult: BASIC WIND SPEED Vasd: WIND IMPORTANCE FACTOR, I: RISK CATEGORY: WIND EXPOSURE CATEGORY: INTERNAL PRESSURE COEFF.:	5 90     .0    C +0		
		COMPONENTS & CLADDING (ASD):		P.E.M.B.	5
		SEISMIC LOAD SEISMIC RISK CATEGORY: SEISMIC IMPORTANCE FACTOR: MAPPED SPECTRAL RESPONSE COEFF SPECTRAL RESPONSE COEFF.: SITE CLASS: SEISMIC DESIGN CATEGORY:		= 0.170, S <sub>1</sub> = 0.094 = 0.136, S <sub>D1</sub> = 0.106	Revision Schedule Description
		THIS FOUNDATION DESIGN COMPLIES WITH TH	E ARKANSAS SEISMI	C STANDARDS.	Date
<i>I</i> ITS					#
					Rev.

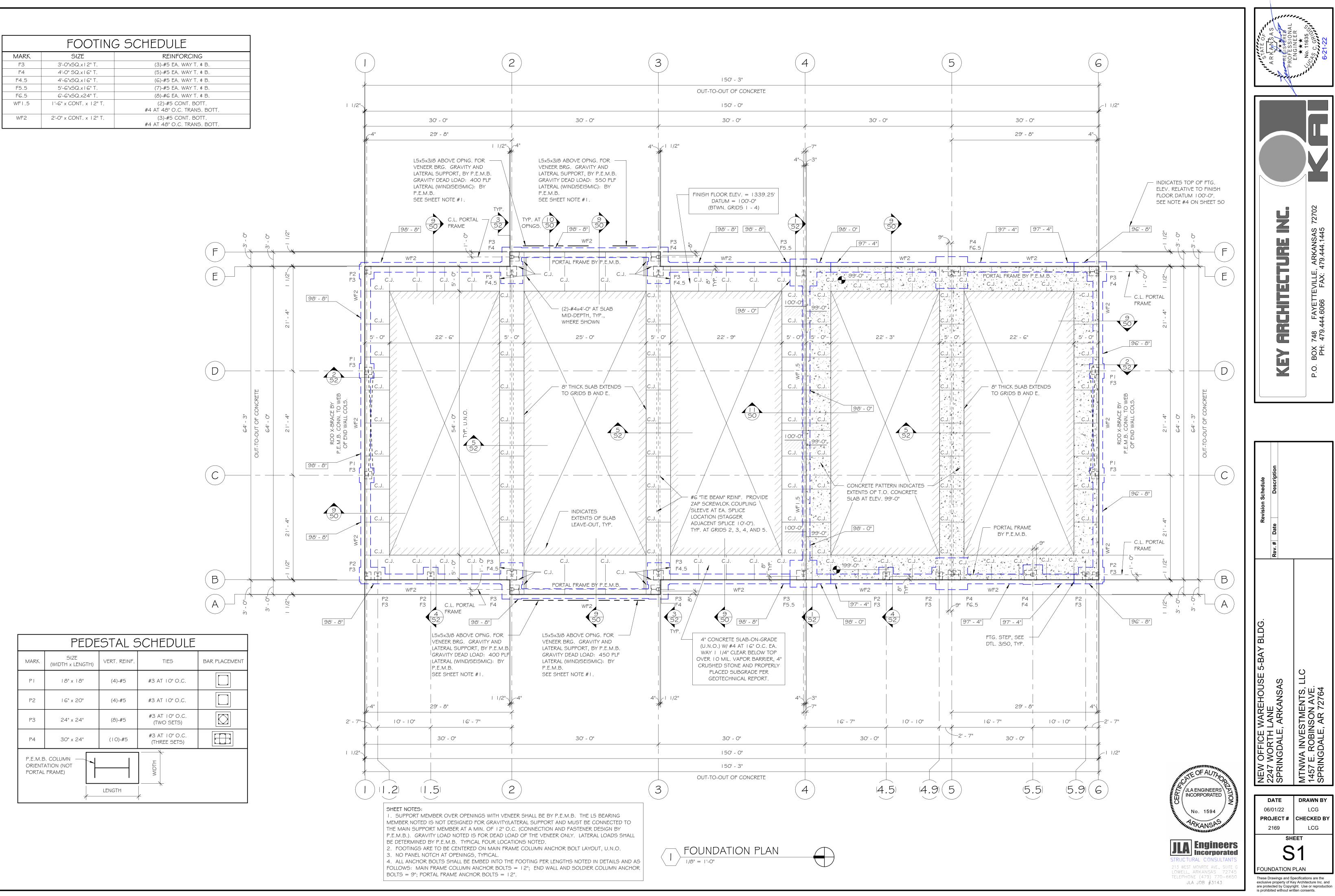
SEE PLAN DIAMOND DOWEL PLASTIC INSERT AT 18" O.C. (CENTER OF INSERT LOCATED 2" FROM TOP OF SLAB) F.F.E. SEE PLAN 

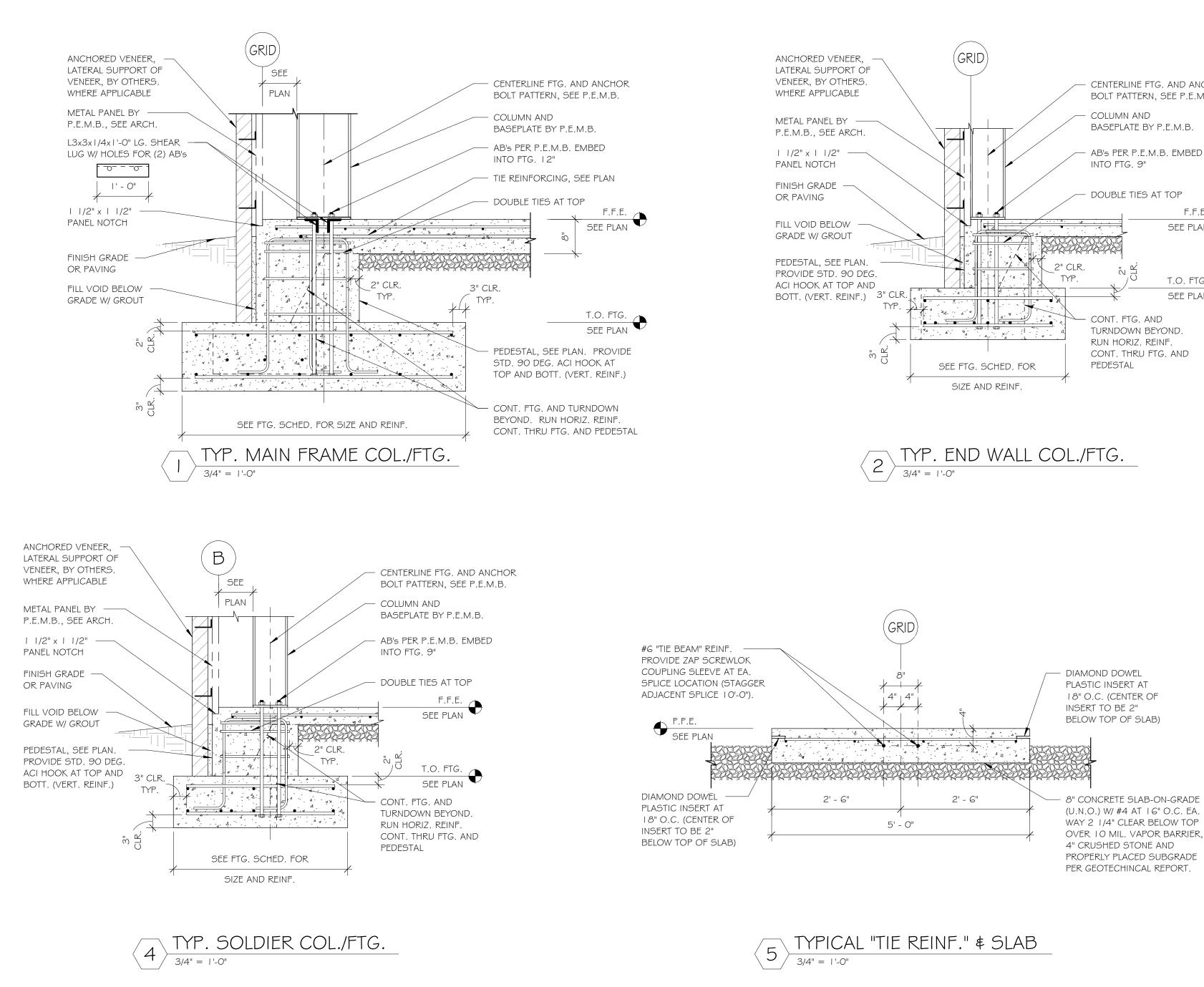
> #4 AT 48" O.C. HOOK 18" INTO SLAB AND STD. ACI 90 DEG. HOOK INTO FTG.

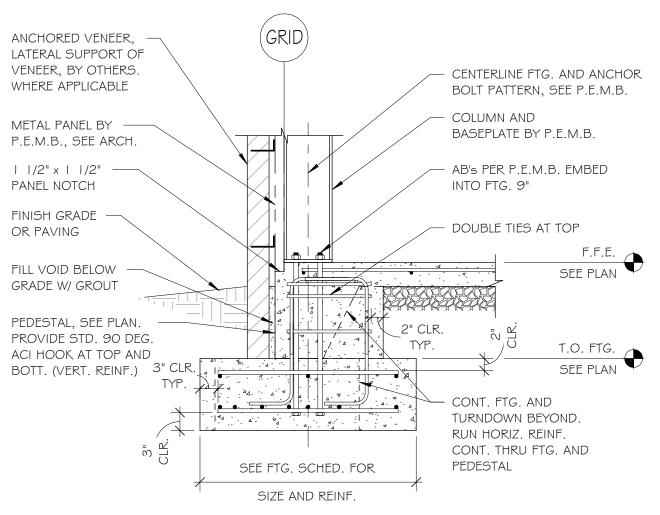




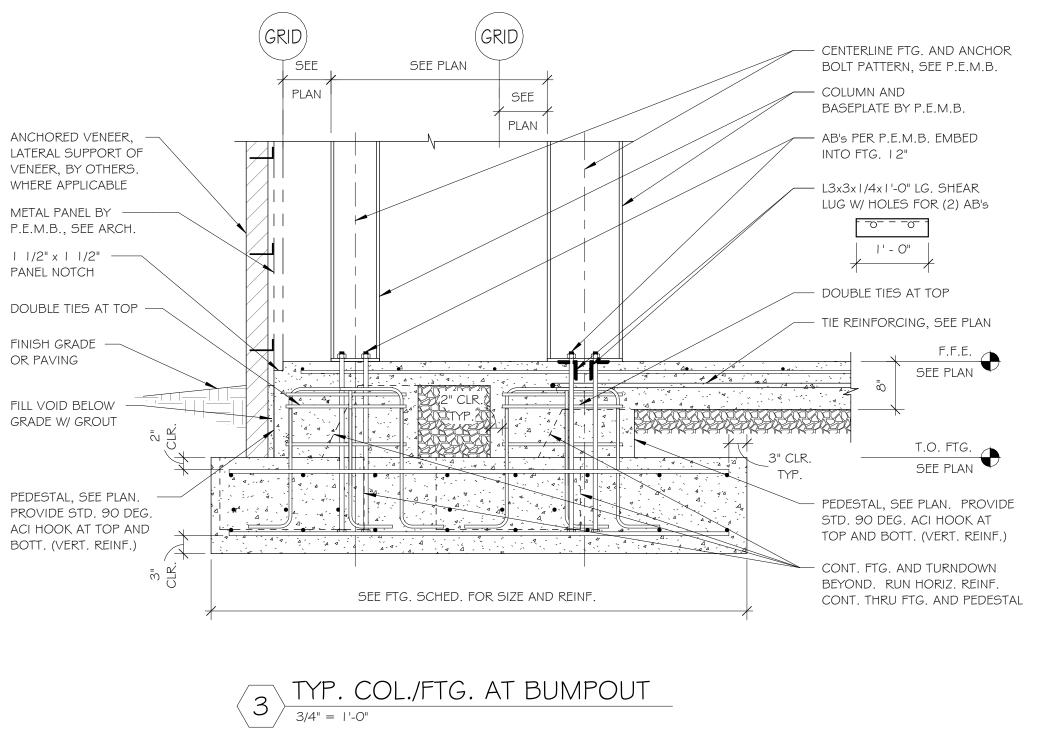
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## SCHEDULE OF SPECIAL INSPECTIONS (STRUCTURAL)

'HIS SCHEDULE OF SPECIAL INSPECTION SERVICES (STRUCTURAL) HAS BEEN PREPARED BY JLA ENGINEERS INC. (STRUCTURAL ENGINEER OF RECORD) AND HALL BE INCLUDED IN THE STATEMENT OF SPECIAL INSPECTIONS WHICH THE APPLICANT (NOT JLA ENGINEERS INC.) SHALL SUBMIT TO THE BUILDING OFFICIAL AT TIME OF PERMIT APPLICATION IN ACCORDANCE WITH SECTION 1704 OF THE 2012 ARKANSAS FIRE PREVENTION CODE.

PECIAL INSPECTION IS THE MONITORING OF THE MATERIALS AND WORKMANSHIP CRITICAL TO THE INTEGRITY OF THE BUILDING STRUCTURE. IT IS A REVIEW OF THE WORK OF THE CONTRACTORS AND THEIR EMPLOYEES TO ENSURE THAT THE APPROVED PLANS AND SPECIFICATIONS ARE BEING FOLLOWED AND THAT THE RELEVANT CODES AND REFERENCED STANDARDS ARE BEING OBSERVED. THE SPECIAL INSPECTION PROCESS IS IN ADDITION TO THE NSPECTIONS CONDUCTED BY THE BUILDING OFFICIAL OR AUTHORITY HAVING JURISDICTION AND STRUCTURAL OBSERVATION BY THE DESIGN PROFESSIONAL.

PECIAL INSPECTIONS AND TESTS ARE REQUIRED TO BE PERFORMED BY QUALIFIED, INDEPENDENT AGENTS (NOT JLA ENGINEERS INC.) WITH SPECIAL EXPERTISE AS APPROVED BY THE BUILDING OFFICIAL. THE QUALIFIED, INDEPENDENT AGENTS SHALL BE RETAINED BY THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT (NOT JLA ENGINEERS INC.) TO COMPLETE THE SPECIAL INSPECTIONS NOTED IN THIS DOCUMENT. REFER TO SECTION 1704 OF THE 2012 ARKANSAS FIRE PREVENTION CODE.

SPECIAL INSPECTIONS PER 2012 ARKANSAS FIRE PREVENTION CODE SECTION 1704 ARE REQUIRED TO BE PROVIDED ON ALL PROFESSIONALLY DESIGNED PROJECTS NOT MEETING THE EXCEPTIONS DESCRIBED IN SECTION 1704.2 OR AS DETERMINED BY THE BUILDING OFFICIAL.

AS PART OF THE GENERAL REQUIREMENTS SECTION 1704 OF THE 2012 ARKANSAS FIRE PREVENTION CODE, SPECIAL INSPECTIONS, CONTRACTOR RESPONSIBILITY AND STRUCTURAL OBSERVATIONS. A STATEMENT OF SPECIAL INSPECTIONS INCLUDING A SCHEDULE OF SPECIAL INSPECTION SERVICES PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (NOT JLA ENGINEERS INC.) SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, BY THE APPLICANT, AT TIME OF PERMIT APPLICATION.

## MATERIAL / ACTIVITY

704.2.5 INSPECTION OF FABRICATORS VERIFY FABRICATION/QUALITY CONTROL PRO 1705.6 SOILS

VERIFY MATERIALS BELOW SHALLOW FOL ADEQUATE TO ACHIEVE THE DESIGN BEARING VERIFY EXCAVATIONS ARE EXTENDED TO

HAVE REACHED PROPER MATERIAL. . PERFORM CLASSIFICATION AND TESTING

MATERIALS. . VERIFY USE OF PROPER MATERIALS, DEN

HICKNESSES DURING PLACEMENT AND CON CONTROLLED FILL.

5. PRIOR TO PLACEMENT OF CONTROLLED I SUBGRADE AND VERIFY THAT THE SITE HAS PROPERLY.

NOTES:

. THE INSPECTION AND TESTING AGENT(S) SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL AND/OR THE DESIGN PROFESSIONAL.

2. THE LIST OF SPECIAL INSPECTORS MAY BE SUBMITTED AS A SEPARATE DOCUMENT.

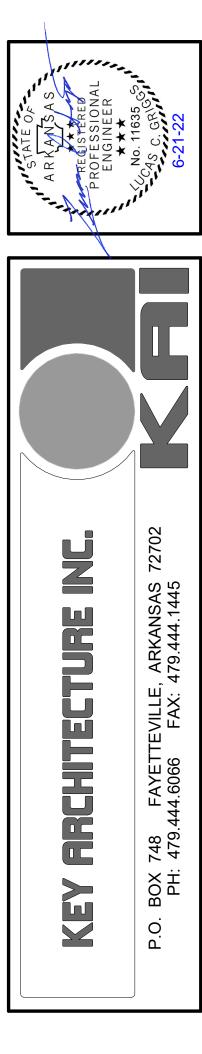
3. SPECIAL INSPECTIONS AS REQUIRED BY SECTION 1704.2.5 ARE NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE WITH THE 2012 ARKANSAS FIRE PREVENTION CODE SECTION 1704.2.5.2.

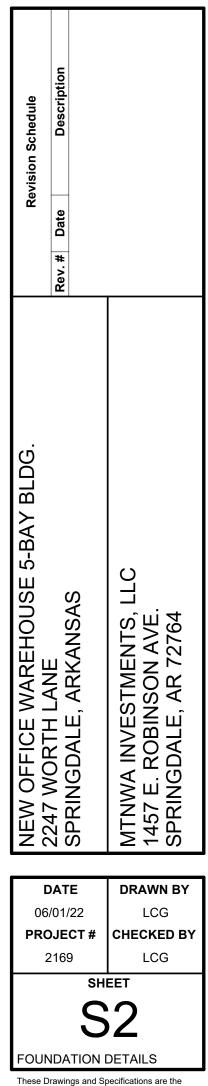
JLA ENGINEERS INC., HAS PROVIDED THE SCI INSPECTION REQUIREMENTS SHALL BE PROV

ŕ	SERVICE	REQ'D.	EXTENT
OCEDURES.	IN-PLANT REVIEW (3)	YES	PERIODIC
DUNDATION ARE NG CAPACITY.	FIELD INSPECTION	YES	PERIODIC
D PROPER DEPTH AND	FIELD INSPECTION	YES	PERIODIC
G OF CONTROLLED FILL	FIELD INSPECTION	YES	PERIODIC
INSITIES, AND LIFT	FIELD INSPECTION	YES	CONTINUOUS
FILL, OBSERVE 6 BEEN PREPARED	FIELD INSPECTION	YES	PERIODIC

CHEDULE OF SPECIAL INSPECTION SERVICES (STRUCTURAL) FOR THE FOUNDATION ONLY. ALL OTHER SPECIAL
VIDED BY OTHERS.
JLA ENGINEERS INC. DOES NOT PERFORM SPECIAL INSPECTIONS







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	GENERAL NOTE	S	ABBREVIATIONS	
GENERAL NOTES	7. ADJUSTMENTS: ALL EQUIPMENT, MOTORS, FANS, GAS	NO EXCEPTIONS.	ACU AIR CONDITIONING UNIT AFF ABOVE FINISHED FLOOR	
1. REFERENCE TO RELATED WORK: "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL,	BURNERS, IGNITION DEVICES, DRIVES, ETC. SHALL BE ADJUSTED AND BALANCED TO OPERATE AT SPECIFIED	17. HOT WATER RECIRCULATING BALANCING VALVE VALVES TO BE BELL & GOSSET CIRCUIT SETTER (OR WATTS	AHJ AUTHORITY HAVING JURISDICTION BHP BRAKE HORSEPOWER	
CIVIL, ELECTRICAL, LANDSCAPE, OR KITCHEN), OR ITEM BASED ON A SPECIFIC MANUFACTURER'S DIMENSIONS	RATINGS AS REQUIRED FOR THIS PROJECT SITE AND ACCOUNTING FOR ELEVATION ABOVE SEA LEVEL.	EQUIVALENT) WITH INTEGRAL READOUT PORTS, ADJUSTMENT KNOB, DRAIN CONNECTION, AND POSITIVE SHUTOFF.	BHP BRAKE HORSEPOWER BOH BACK OF HOUSE BTUH BRITISH THERMAL UNIT PER	
(VERIFY).	8. APPROVALS: MECHANICAL AND PLUMBING EQUIPMENT SHALL	18. DISASSEMBLY PROVISIONS: PROVIDE UNIONS OR FLANGES	HOUR C COMMON	
2. ELECTRICAL CHARACTERISTICS: REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS (VOLTAGES,	BE APPROVED FOR INSTALLATION IN THE PROJECT LOCATION AND SHALL HAVE ALL CERTIFICATIONS AND RATINGS TO	AT PIPING CONNECTIONS TO EQUIPMENT, COILS, TRAPS, CONTROL VALVES, AND OTHER COMPONENTS TO ALLOW	CAP CAPACITY CC COOLING COIL	
ETC. OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED.	MEET ALL ENERGY, POLLUTION, ENVIRONMENTAL, SEISMIC, ETC. CODES AND REGULATIONS. THE CONTRACTOR SHALL	DISASSEMBLY FOR MAINTENANCE.	CD CONDENSATE DRAIN CFF CAPPED FOR FUTURE	
3. CODES: COMPLETE INSTALLATION OF THE PLUMBING SYSTEM	COORDINATE WITH HIS MANUFACTURE SUPPLIERS AND SHALL INCLUDE ALL COSTS REQUIRED TO MEET THESE REQUIREMENTS IN HIS BID.	19. REDUCERS: PROVIDE AS REQUIRED FROM LINE PIPE SIZE TO EQUIPMENT, TRAP, COIL, AND CONTROL VALVE	CFM CUBIC FEET PER MINUTE CI CAST IRON	
SHALL BE PER THE APPLICABLE BUILDING, MECHANICAL, ENERGY, PLUMBING, FIRE, AND HEALTH CODES AND	9. FIRE PROTECTION: CONTRACTOR SHALL PROVIDE A FULLY	CONNECTION SIZES. 20. OFFSETS: PROVIDE FOR BRANCH LINES TO EQUIPMENT.	CO CLEANOUTS COMB COMBUSTION	
REGULATIONS AS ADOPTED BY THE LOCAL AHJ.	DESIGNED FIRE PROTECTION SPRINKLER SYSTEM IN COMPLIANCE WITH NFPA AND LOCAL CODES. PROVIDE	21. DIELECTRIC UNIONS: PROVIDE AT CONNECTIONS OF	CONT CONTINUE, CONTROL CONTR CONTRACTOR	
4. PREPARE AND SUBMIT FOR REVIEW A SHOP DRAWING BASED ON FINAL STRUCTURAL SHOP DRAWINGS FOR LOCATING AND	DESIGN, PERMITS, MATERIALS, INSTALLATION, TESTING AND ALL OTHER FOR A FULLY OPERATIONAL SYSTEM. LOCATION	DISSIMILAR PIPE.	COTG CLEANOUTS TO GRADE CW COLD WATER D DIAMETER	M-3M-
ROUTING ALL EQUIPMENT, PIPING, ETC. A. COORDINATE FLOOR AND BEAM PENETRATIONS WITH STRUCTURAL.	OF ALL PIPING TO BE COORDINATED WITH OTHER TRADES.	22. REFRIGERANT PIPING: PROVIDE SIZING & INSTALLATION IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.	DB DRY BULB, DECIBEL DIM DIMENSION	<u>\</u>
B. COORDINATE FINAL LOCATION AND ROUTING WITH CEILING, LIGHTS, WALLS, FIRE SPRINKLER PIPING, AND	PLUMBING NOTES	23. CONDENSATE DRAIN: PROVIDE A P-TRAP FOR EACH HVAC	DN DOWN DS DOWN SPOUT	
OTHER TRADES WORK. C. INCLUDE ADDITIONAL OFFSETS, ELBOWS, ROUTING,	<ol> <li>CONNECTIONS: PROVIDE PLUMBING FIXTURE CONNECTIONS TO BUILDING WASTE, VENT, COLD WATER, AND HOT WATER</li> </ol>	UNIT CONDENSATE PAN WITH PLUG TEES FOR CLEANING. CONDENSATE DRAINS SHALL BE DISCHARGED TO AN	EFF EFFICIENCY ELEC ELECTRIC	EF-1-
EQUIVALENT DUCT SIZING EXCHANGE, RELOCATING, ETC. AS REQUIRED FOR A COMPLETE OPERATING MECHANICAL	SYSTEM IN ACCORDANCE WITH DRAWINGS, MANUFACTURER'S RECOMMENDATIONS, AND LOCAL CODES. CONNECT TO EACH	INDIRECT WASTE OR OUTSIDE.	EWC ELECTRIC WATER COOLER EXT EXTERIOR, EXTERNAL	
SYSTEM. D. PROVIDE SHOP DRAWINGS AT NO ADDITIONAL COST TO	FIXTURE, EQUIPMENT, ETC. WITH ALL ACCESSORIES, VALVES, VACUUM BREAKERS, REGULATORS, UNIONS, ETC. AS	INSULATION/LINING NOTES	F FAHRENHEIT FCO FLOOR CLEANOUTS	
	REQUIRED AND AS RECOMMENDED BY THE MANUFACTURERS. REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE ON	1. ENERGY CODE: AS A MINIMUM, COMPLY WITH THICKNESSES AND TYPES LISTED IN ENERGY CODE ENFORCED BY AHJ.	FCU FAN COIL UNIT FD FLOOR DRAIN	
5. PLUMBING CONTRACTOR SHALL LOCATE AND COORDINATE EXACT LOCATION OF ALL PLUMBING EQUIPMENT WITHIN THE	PLANS.		FLR FLOOR FPM FEET PER MINUTE FPS FEET PER SECOND	
STRUCTURE. ACCESS DOORS: COORDINATE WITH ARCHITECT AND LOCATE	2. HOT AND COLD: WATER PIPING CONNECTION TO EACH FIXTURE SHALL BE COLD WATER ON THE RIGHT HAND SIDE		FPS FEET PER SECOND FS FLOOR SINK G GAS	
ACCESS DOORS: COORDINATE WITH ARCHITECT AND LOCATE ALL ACCESS DOORS ON SHOP DRAWINGS PRIOR TO BEGINNING OF CONSTRUCTION. ACCESS DOORS IN FIRE	AND HOT WATER ON THE LEFT HAND SIDE.		G GAS GAL GALLONS GPG GRAINS PER GALLON	OL
RATED STRUCTURE SHALL BE FIRE RATED. VERIFY ACCESS DOOR LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO	3. HOT WATER: NON-CIRCULATING HOT WATER PIPE SHALL NOT EXCEED 10' UNLESS OTHERWISE SHOWN ON DRAWINGS.		GPM GALLONS PER MINUTE GWB GYPSUM WALLBOARD	CD
BIDDING.	4. VENT STACKS: COORDINATE VENT STACK WITH HVAC		HB HOSE BIBB HD HEAD	140
. ROOF PENETRATIONS: SEE ARCHITECTURAL DRAWINGS FOR ROOF CAP, ROOF CURB, ROOF DRAIN, AND VTR DETAILS.	EQUIPMENT TO MAINTAIN MINIMUM 10' CLEARANCE FROM OUTSIDE AIR INTAKES.		HEDV HOSE END DRAIN VALVE HORIZ HORIZONTAL	<u> </u>
3. EXPOSED PIPING: PROVIDE CHROME PLATING FOR EXPOSED PIPING IN FINISHED ROOMS.	5. CLEANOUTS: PROVIDE CLEANOUTS PER CURRENT CODE AND AS REQUIRED BY LOCAL JURISDICTIONS. CLEANOUTS SHALL		HP HORSEPOWER HPCW HIGH PRESSURE COLD WATER HVAC HEATING, VENTILATING, AND	
PIPING IN FINISHED ROOMS.	BE LOCATED IN WALLS/FLOORS WHERE THEY ARE NOT HIGHLY VISIBLE. FLOOR CLEANOUTS IN CARPETED AREAS TO	PIPE MATERIALS	AIR CONDITIONING HW HOT WATER	<u> </u>
EXPOSED PIPING PENETRATIONS AND SHEET METAL FLASHING FOR EXPOSED DUCTWORK PENETRATIONS.	BE FITTED WITH CARPET INSERTS. LOCATIONS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL. NOTE: NOT ALL		HWC HOT WATER RE-CIRCULATION HX HEAT EXCHANGER	FOF FOS
0. SHAFT AND PLENUM CONNECTIONS: SEAL CONNECTIONS TO	CLEANOUTS ARE SHOWN ON THE PLUMBING DRAWINGS.	APPROVED PLUMBING MATERIAL: All sanitary system materials shall be listed by an approved	ID INDIRECT DRAIN, INSIDE DIAMETER	———— FOS —— ———— FOR ——
AIR SHAFTS AIRTIGHT. PROVIDE AIRTIGHT SEAL AROUND PENETRATIONS IN AIR PLENUMS.	6. SUDS RELIEF: PROVIDE SUDS RELIEF IN ACCORDANCE WITH CURRENT CPC.	LISTING AGENCY.	IE INVERT ELEVATION IN INCH	FOV
1. LIGHT FIXTURE CLEARANCE: COORDINATE LOCATIONS OF	7. SHUT–OFFS: PROVIDE 1/4 TURN BALL VALVE ANGLE STOP SHUT–OFF VALVES AND BRAIDED STAINLESS STEEL FLEX	1. UNDERGROUND SERVICE ENTRANCE PIPING: COPPER, TYPE K. PLASTIC WRAP UNDERGROUND WATER SUPPLY PIPING TO PREVENT CORROSION.	KS KITCHEN SINK KW KILOWATT L LONG, LENGTH	
MECHANICAL WORK TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND REPLACEMENT.	CONNECTORS AT HOT AND COLD WATER SUPPLY TO EACH FIXTURE. EXCEPTION: PROVIDE SCREWDRIVER STOPS AT	2. ABOVEGROUND WATER DISTRIBUTION PIPING IN RESTROOMS: PEX.	L LONG, LENGTH LAV LAVATORY LB POUND	MPG
2. CABLE TRAYS: PIPING INSTALLED ADJACENT TO ELECTRICAL CABLE TRAYS SHALL ALLOW MINIMUM ACCESS OF 6" ABOVE	BATH/SHOWERS.	3. STORM, VENT AND GRAVITY WASTE: NO-HUB CAST IRON	MBH THOUSAND BTU PER HOUR MECH MECHANICAL	I
AND TO THE SIDE OF CABLE TRAYS.	8. TUB SPOUTS SHALL BE THREADED (NO PUSH-ON FITTINGS).	ALL CAST IRON SOIL PIPE AND FITTINGS SHALL BE MARKED WITH THE	MCA MIN. CIRCUIT AMPACITY MOCP MAX. OVER CURRENT	
<ol> <li>MOTORS: COMPLY WITH ENERGY CODE ENFORCED BY AHJ FOR MINIMUM EFFICIENCIES UNDER FULL LOAD.</li> </ol>	9. TRAP ARMS: PROVIDE TRAP ARMS SUCH THAT THE MAXIMUM LENGTH WILL NOT EXCEED CODE REQUIREMENTS.	COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE (CISPI) AND BE LISTED BY NSF INTERNATIONAL.	PROTECTION MPG MEDIUM PRESSURE GAS	-
4. ACCESS CLEARANCES FOR MAINTENANCE AND	10. ADA INSULATION: AT PLUMBING PIPING EXPOSED UNDER	COUPLINGS: STANDARD COUPLINGS SHALL CONFORM TO CISPI 310 AND ASTM C 1277. SHIELD ASSEMBLIES SHALL CONSIST OF A STAINLESS STEEL	MTD MOUNTED OD OUTSIDE DIMENSION/DIAMETER	CON
REPLACEMENT: VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET.	LAVATORIES, INSULATE THE EXPOSED PIPING AND TRAPS WITH PRODUCT SPECIFICALLY DESIGNED FOR THIS	BI-DIRECTIONAL CORRUGATED SHIELD; STAINLESS-STEEL BANDS AND TIGHTENING DEVICES; AND A ASTM C 564, RUBBER SLEEVE WITH INTEGRAL	OVERFLOW DRAIN/DECK DRAIN OPNG OPENING	CONTRACTO
COORDINATE LOCATIONS OF MECHANICAL WORK AND WORK OF OTHER TRADES TO PROVIDE ACCESS CLEARANCES FOR SERVICE AND MAINTENANCE.	APPLICATION MEETING ADA REQUIREMENTS. PROVIDE HANDI-LAV GUARD OR EQUIVALENT. OFFSET P-TRAPS TO CLEAR WHEELCHAIR ACCESS.	CENTER STOP. COUPLINGS SHALL BEAR THE NSF TRADEMARK, AND BE MANUFACTURED IN THE USA.	P PUMP PD PRESSURE DROP, PUMPED DRAIN	PLEASE SUE ORDERING N
COORDINATION REQUIREMENTS	11. GAS EQUIPMENT: GAS EQUIPMENT SHALL BE INSTALLED PER	EXCEPTION: SOLID WALL PVC SCH. 40 ASTM D2665 IS APPROVED ONLY	POC POINT OF CONNECTION PRV PRESSURE REDUCING VALVE	CATALOG DI ARE CONSIE
. IRRIGATION: COORDINATE WITH IRRIGATION CONTRACTOR FOR	EQUIPMENT LISTINGS, LOCAL CODES, AND NFPA.	FOR UNDERSLAB PIPING WITH PROPER TRENCHING PER ASTM D2321, FOR PARKING GARAGE AND BUILDING WITH MAXIMUM 3 STORIES. PRIOR TO	PRESSURE RELIEF VALVE PS PUMPED STORM DRAINAGE	ADDRESSED ENGINEER A
THEIR WATER SUPPLY REQUIREMENTS AND LOCATIONS.	12. GAS CONNECTIONS: INSTALL FLEXIBLE QUICK DISCONNECT ASSEMBLIES FOR ALL GAS FIRED KITCHEN EQUIPMENT PER	BIDDING, CONTRACTOR SHALL CONTACT LOCAL AHJ FOR ACCEPTANCE OF PVC PIPING UNDERSLAB. EXPANSION LOOP OR EXPANSION JOINTS SHALL	PSIG POUNDS PER SQUARE INCH GAUGE	RESPONSIBL REVISIONS.
. GAS: CONTRACTOR/GAS COMPANY SHALL FINALIZE GAS METER AND GAS SERVICE LOCATIONS.	LOCAL JURISDICTIONS.	BE PROVIDED PER PIPING MANUFACTURER RECOMMENDATION.	PW PUMPED SANITARY WASTE RD ROOF DRAIN	
3. UTILITIES: COORDINATE WITH SITE UTILITY CONTRACTOR AND	13. WATER HAMMER ARRESTERS: PROVIDE AT THE END OF HOT AND COLD WATER LINES SERVING TWO OR MORE FIXTURES;	NOTE 1: PVC PIPING SHALL NOT BE USED FOR RECEPTOR & TRAP ARM WHERE WASTE TEMPERATURE CAN EXCEED 110°F. THIS INCLUDE PIPING	REF REFERENCE PRBP REDUCED PRESSURE BACKELOW DREVENTER	
CIVIL DRAWINGS FOR UTILITY CONNECTIONS AND EXTENSIONS.	SIZE IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE (PDI) REQUIREMENTS. WATER HAMMER ARRESTORS ARE REQUIRED FOR QUICK CLOSING VALVES, SUCH AS	AND RECEPTORS FOR 3 COMP SINK, DISHWASHER, COMMERCIAL LAUNDRY SINK, AND CONDENSATION DRAIN FOR GAS FIRED EQUIPMENT.	BACKFLOW PREVENTER RPM REVOLUTIONS PER MINUTE SCH SCHEDULE	DRAWINGS
ROOF DRAINAGE: COORDINATE WITH GENERAL CONTRACTOR FOR ROOF DRAIN AND OVERFLOWS, SCUPPER DRAINS, AND	ARE REQUIRED FOR QUICK CLOSING VALVES, SUCH AS LAUNDRY WASHERS, FLUSH VALVES (PUBLIC TOILETS), ETC.	NOTE 2: TRAP ARM FOR WASTE RECEPTOR OF SODA DISPENSER SHALL BE MADE OF SOLID CORE PVC SCH. 40 ASTM D2665. CAST IRON PIPING	SCW SOFTENED COLD WATER SD STORM DRAIN	AND EQ MEASURE
CONDENSATE DRAINS.	14. TRAP PRIMERS: PROVIDE TRAP PRIMERS AND PIPING FOR DRAINS AND FLOOR SINKS. ARRANGE PIPING TO ACHIEVE	IS NOT ALLOWED FOR HIGH ACIDITY DRAINS. (PH<3)	SF SQUARE FOOT SH SHOWER	MANUFACT
. PLUMBING FIXTURES: COORDINATE WITH ARCHITECTURAL AND OTHER TRADES EXACT LOCATION OF ALL PLUMBING	EQUAL FLOW TO EACH DRAIN AND FLOOR SINK FOR TRAP PRIMERS SERVING MULTIPLE DRAINS AND FLOOR SINKS.	NOTE 3: FOAM (CELLULAR) CORE PVC PIPING/FITTING IS PROHIBITED BY	SO STORM OVERFLOW SP STATIC PRESSURE	AND INSTAL
FIXTURES.		ENGINEERING.	SR SUDS RELIEF SS STAINLESS STEEL,	
. PIPING: COORDINATE WITH STRUCTURAL FOR EXACT LOCATION OF ALL STRUCTURAL FRAMING AND FOOTINGS	15. P-TRAPS: ALL EXPOSED P-TRAPS SHALL BE	4. CONDENSATE DRAIN PIPING: CPVC OR COPPER TYPE M.	SANITARY SEWER SQ SQUARE TYP TYPICAL	
AND FINALIZE THE EXACT ROUTING OF ALL PIPES WITH STRUCTURAL AND AT THE SITE PRIOR AND DURING THE CONSTRUCTION.	CHROME-PLATED BRASS. 16. PROVIDE BALL VALVES. GATE VALVES SHALL NOT BE USED.	5. TEMPERATURE AND/OR PRESSURE RELIEF VALVE DISCHARGE PIPING: COPPER TYPE M	UH UNIT HEATER UON UNLESS OTHERWISE NOTED	
	TO, THOUDE DALL VALVES, GATE VALVES SMALL NUT BE USED.	6. GAS PIPING: STEEL PIPE, ASTM A 53; TYPE E OR S;GRADE B; SCHEDULE 40.	V VENT VTR VENT THRU ROOF	
			W WASTE, WATT, WIDE WC WATER CLOSET	· · · · · · · · · · · · · · · · · · ·
			WCO WALL CLEANOUTS WH WALL HYDRANT	
			WM WASHING MACHINE	
APPLICABLE CODES		-		
THESE DRAWINGS ARE BASED ON THE FOLLOWING	G CODES:			
<ul> <li>2012 INTERNATIONAL BUILDING CODE (IBC)</li> <li>2010 ARKANSAS STATE MECHANICAL CODE</li> </ul>				
2009 INTERNATIONAL ENERGY CONSERVATIO				DWG pooo legend,
• 2018 ARKANSAS STATE PLUMBING CODE (IN	1C)			P100 SEWER, A
				P500 DETAILS
				P600 ISOMETRI

# SYMBOLS

GENERAL		
ARCHITECTURAL BACKGROUND (THIN LINE)		PIPE CAP
	∢	PIPE PLUG
NEW MECHANICAL WORK (HEAVY LINE)		UNION
	I	FLANGE
MATCHLINE OR PROPERTY LINE	<u>_</u>	CLEANOUT
		WYE STRAINER
<u>SECTION IDENTIFICATION</u> (DETAIL SIMILAR)	'>	WYE STRAINER WITH CAPPED HOSE END BLOWDOWN VALVE
INDICATES DIRECTION OF CUTTING		BALL VALVE
PLANE	I^\	CHECK VALVE
LETTER INDICATES SECTION (NO. INDICATES DETAIL)	——————————————————————————————————————	BALANCING OR PLUG VALVE
	\x_	BUTTERFLY VALVE
SHEET NUMBER WHERE SECTION IS DRAWN	4	
SHEET NUMBER WHERE SECTION IS TAKEN		PRESSURE REDUCING VALVE (PRV)
	X	AUTOMATIC CONTROL VALVE, 2-WA
EQUIPMENT	k	AUTOMATIC CONTROL VALVE, 3-WA
TYPICAL EQUIPMENT DESIGNATION (EXHAUST FAN SHOWN)		RELIEF VALVE
	——————————————————————————————————————	BALANCING/MEASURING VALVE
PIPING		FLEXIBLE CONNECTION IN PIPING
SANITARY SEWER (SS)	XA	PIPE ANCHOR
PUMPED WASTE		PIPE ALIGNMENT GUIDE
VENT (V)		
RAIN LEADER	i PS	PIPE SUPPORT
OVERFLOW RAIN LEADER CONDENSATE DRAIN	;c	VALVE STATION OR ASSEMBLY
DOMESTIC WATER (DW)	↓ ID	INDIRECT DRAIN, PIPE TO DRAIN
HOT WATER, POTABLE, 120°F (DHW)		FLOOR DRAIN
HOT WATER, POTABLE, TEMPERATURE OTHER THAN 120°F	ĕ Y	
HOT WATER CIRCULATING (HWC), POTABLE,	$\rightarrow$	HOSE BIBB
120°F	<b>\$ \$</b>	BREAK IN PIPING OR DUCTWORK
HOT WATER CIRCULATING, POTABLE, TEMPERATURE OTHER THAN 120°F		PUMP
FUEL OIL FILL	$\checkmark$	
FUEL OIL SUPPLY	Q	PRESSURE GAUGE
FUEL OIL RETURN	φ	THERMOMETER
FUEL OIL VENT	<u>————</u> + р/т	PRESSURE/TEMPERATURE
RELIEF VENT		TEST PORT
NATURAL GAS		REDUCED PRESSURE BACKFLOW
MEDIUM PRESSURE NATURAL GAS		PREVENTER
IRRIGATION		DOUBLE CHECK VALVE ASSEMBLY

# RACTOR SUBSTITUTIONS & REVISIONS

### JBSTITUTIONS & REVISIONS:

PROPOSALS FOR SUBSTITUTIONS OR REVISIONS FOR REVIEW AND APPROVAL PRIOR TO RIAL OR DOING WORK. FOR EQUIPMENT THAT IS SCHEDULED BY MANUFACTURER'S NAME AND NATIONS, THE MANUFACTURER'S PUBLISHED DATA AND/OR SPECIFICATION FOR THAT ITEM THE COST ANALYSIS OF THE SUBSTITUTION PROPOSAL. CONTRACTOR TO COORDINATE WITH DETERMINE ASSOCIATED DESIGN AND PERMITTING COSTS. CONTRACTOR SHALL BE OR OTHER COSTS ASSOCIATED WITH UNFORESEEN ISSUES RESULTING FROM SUBSTITUTIONS OR

RE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, MENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT NT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO ER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS TION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, SETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

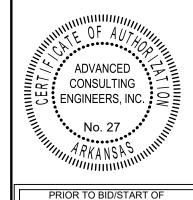
# DRAWING INDEX

DESCRIPTION RAL NOTES & DRAWING INDEX GAS PLUMBING PLAN

P700 SPECIFICATIONS



PO BOX 427 ROGERS, AR 72756



CONSTRUCTION REQUIREMENTS THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND IN SOME CASES, BASED ON INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO

BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT ANY COST SAVINGS OPTIONS OR REUSE OF EXISTING EQUIPMENT, MATERIAL OR DEVICES SHALL BE MADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW.

ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OR FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED OR COMPENSATED. COORDINATE

 PH 479.631.1712
 EQUIPMENT IN MECHANICAL ROOM

 FX 479.631.1854
 CLEARANCES ARE AVAILABLE.

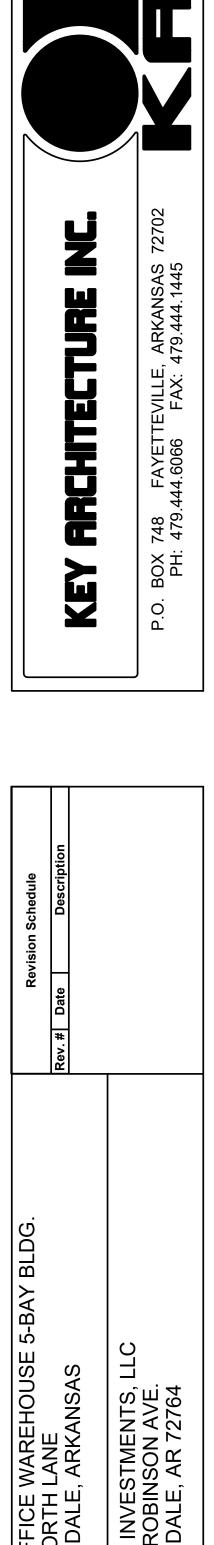
 CONSTRUCTION. LATOUT ALL
 EQUIPMENT IN MECHANICAL ROOM

 TO ENSURE PROPER SPACE AND
 CLEARANCES ARE AVAILABLE.

 CONSTRUCTION. LATOUT ALL
 EQUIPMENT IN MECHANICAL ROOM

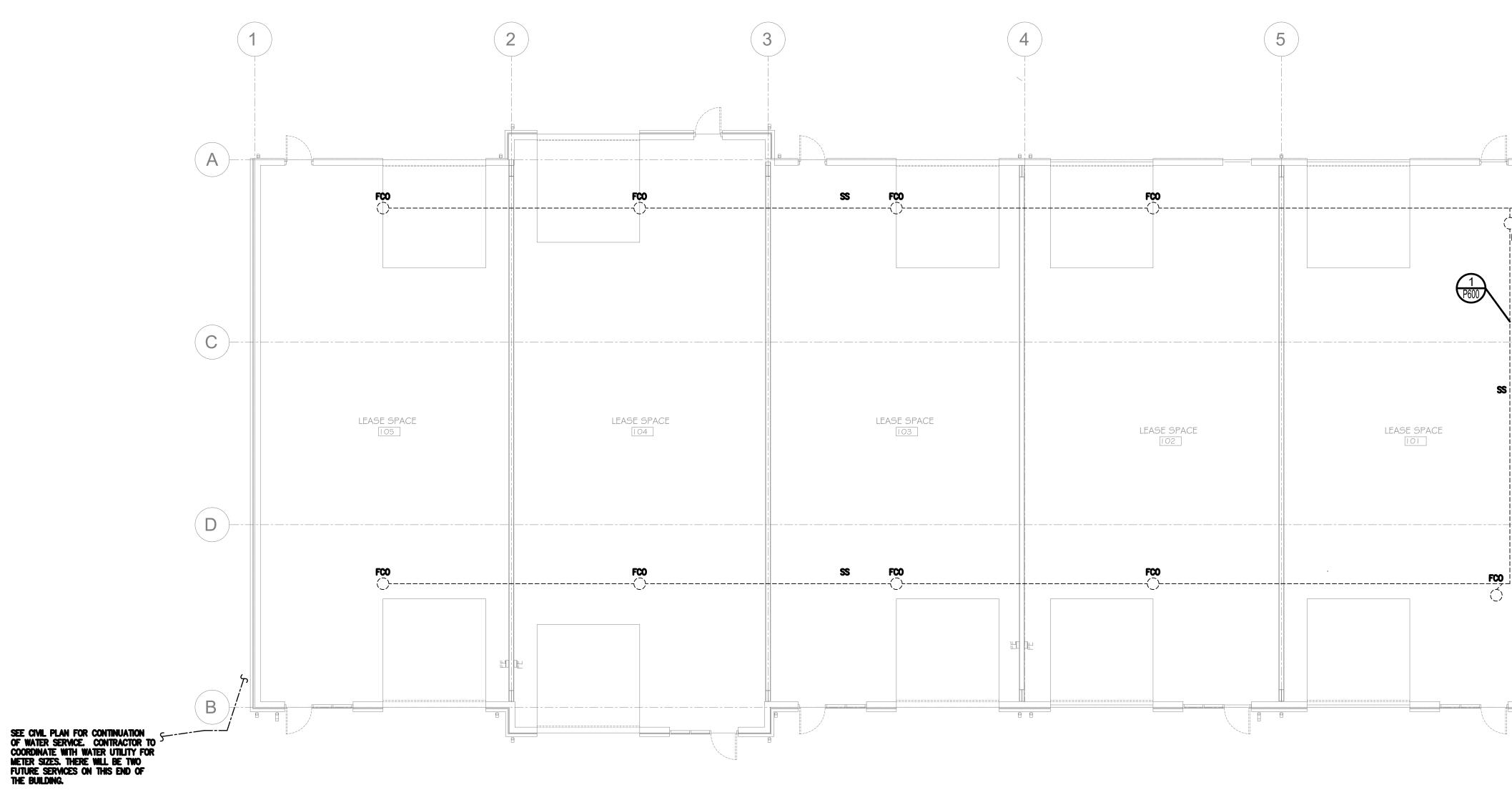
 TO ENSURE PROPER SPACE AND
 CLEARANCES ARE AVAILABLE.

 CONTACT ARCHITECT IMMEDIATELY
 WITH ANY ISSUES.

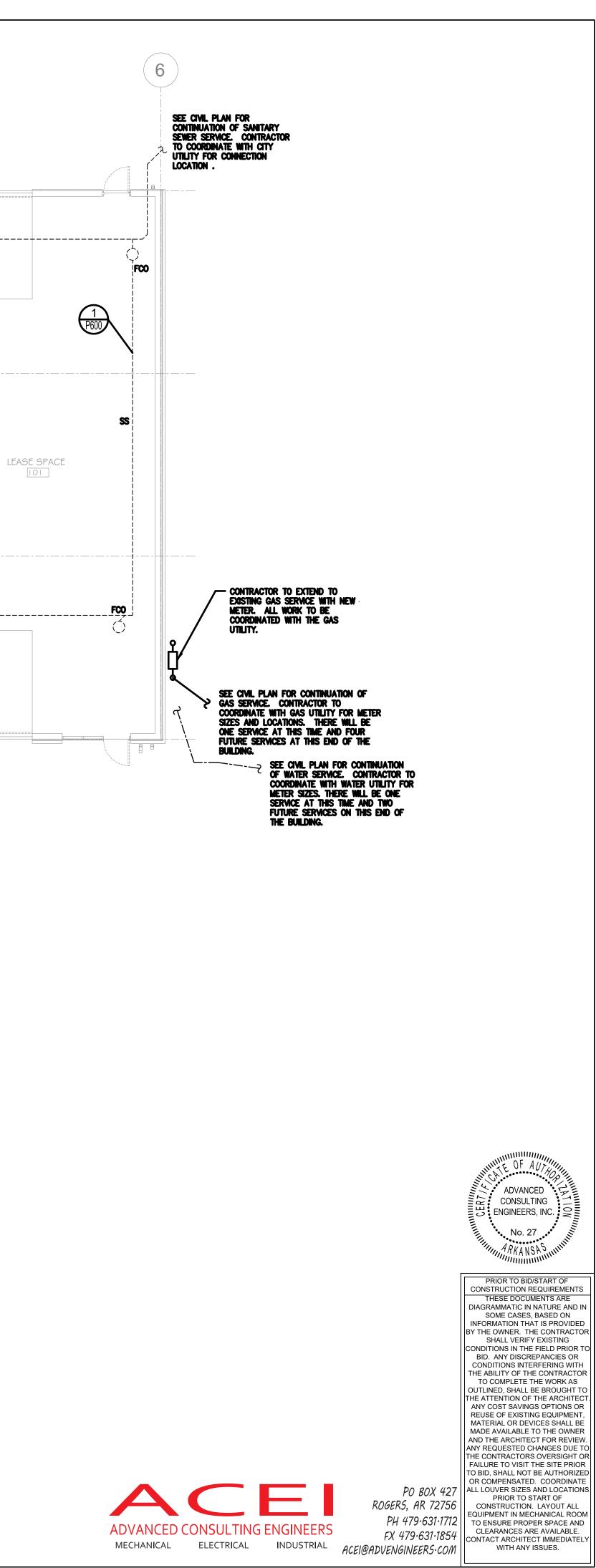


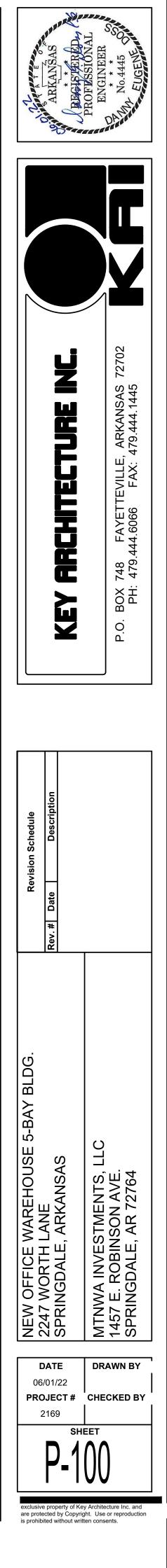
NEW OFFICE W/ 2247 WORTH LA SPRINGDALE, A	MTNWA INVEST 1457 E. ROBINS SPRINGDALE, A			
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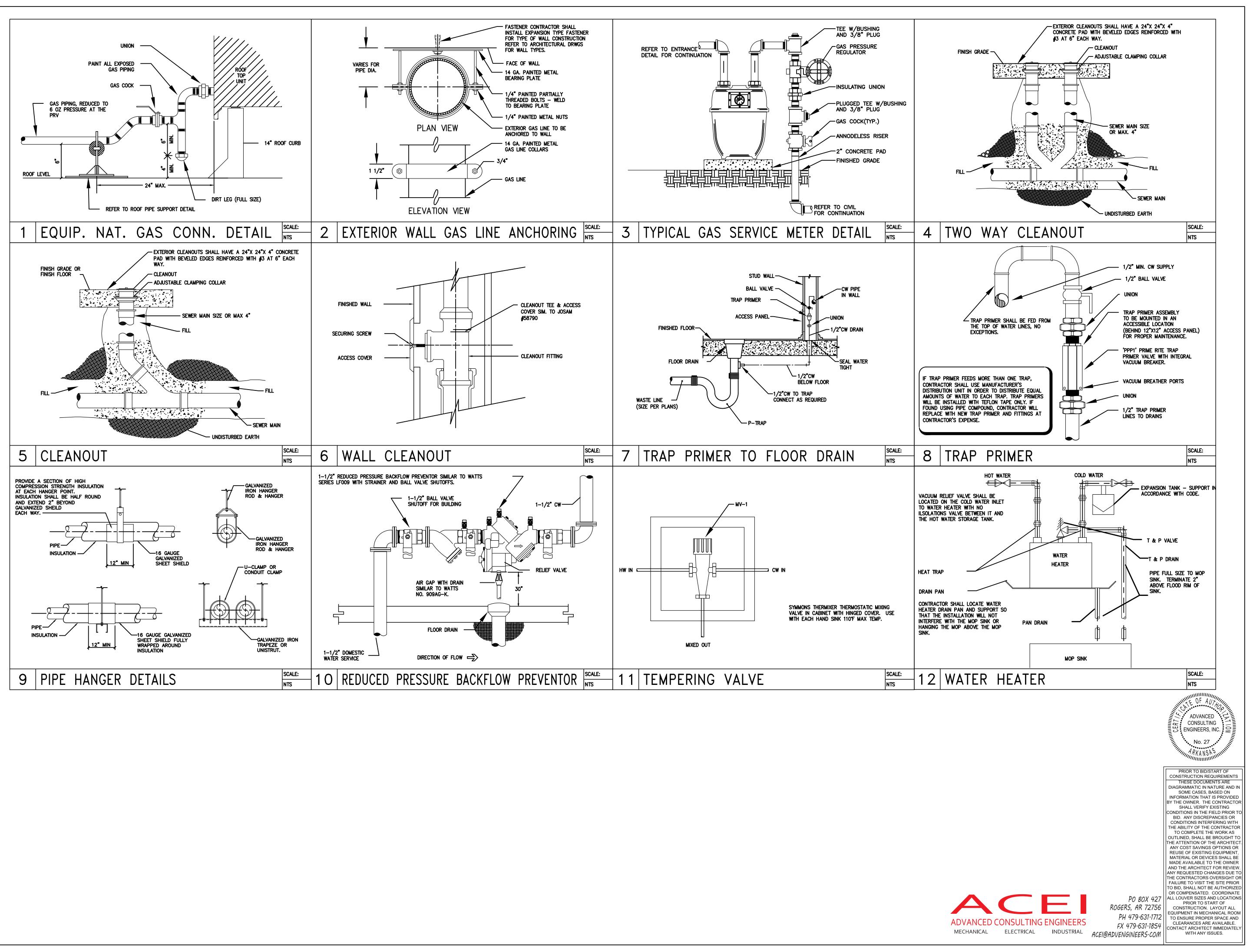
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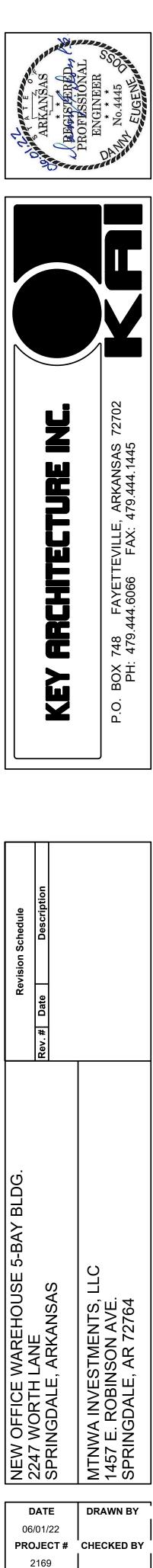








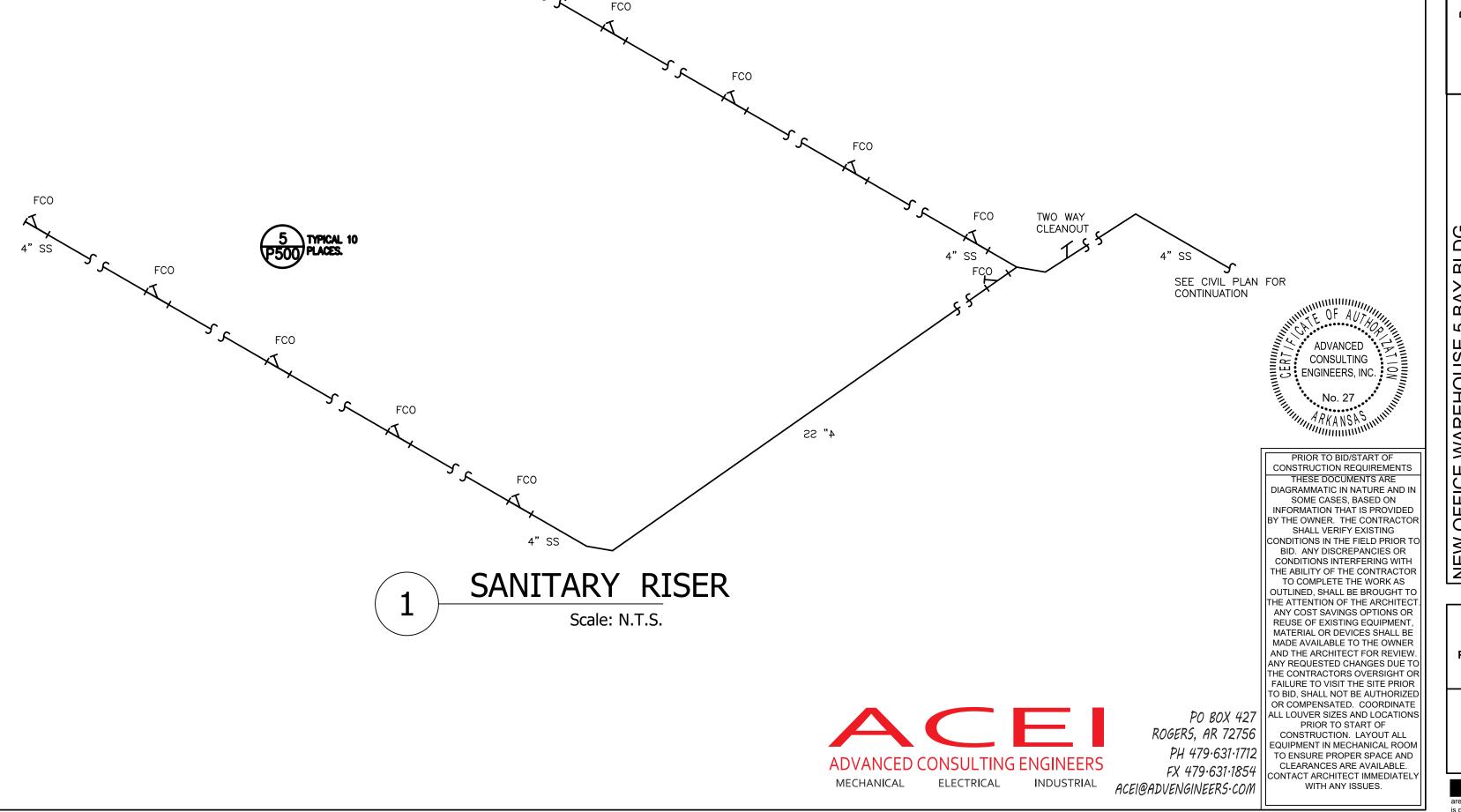




SHEET

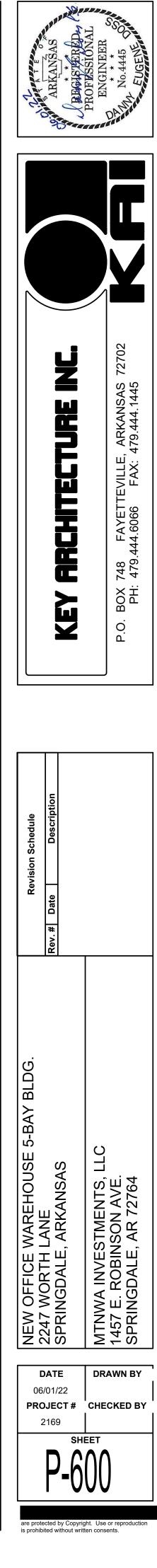
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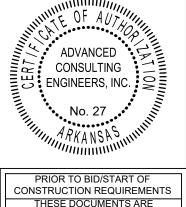
FCO

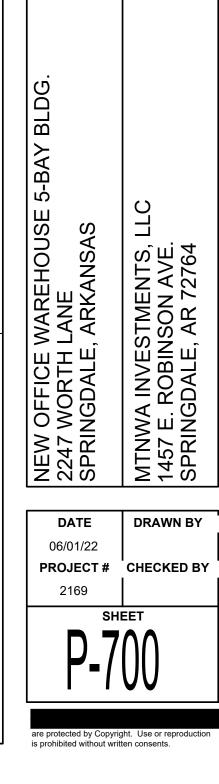
4" SS

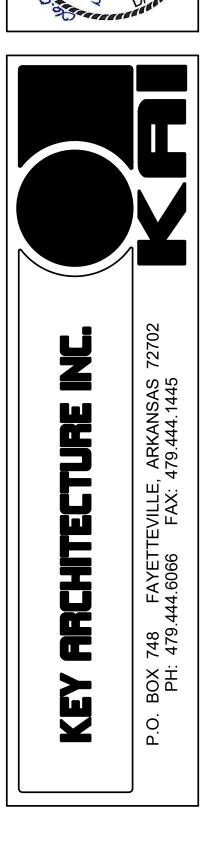


SECTION	ÓDRAIN, WASTE, AND VENT PIPING SYSTEM 15411	DOMESTIC WATER PIPING SYSTEM SECTION 15412
PART 1	GENERAL	PART 1 GENERAL
1.01	WORK INCLUDED:	1.01 WORK INCLUDED:
	UNDERGROUND DRAIN AND VENT PIPING.	A. WATER SERVICE PIPING.
	ABOVE GROUND DRAIN, WASTE, AND VENT PIPING. SANITARY SEWER SERVICE PIPING.	<ul><li>B. HOT AND COLD WATER PIPING.</li><li>C. TEMPERATURE AND PRESSURE (T &amp; P) RELIEF PIPING.</li></ul>
D. F	CONDENSATION DRIP AND OVERFLOW PIPING. CLEANOUTS.	D. VALVES. E. SHOCK SUPPRESSORS.
	FLOOR DRAINS.	E. SHUCK SUFFRESSURS.
1.02	RELATED WORK:	1.02 RELATED WORK:
Α.	SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.	A. SECTION 15000 GENERAL MECHANICAL REQUIREMENTS. B. SECTION 15005 MECHANICAL INSULATION.
1.03	SUBMITTALS:	1.03 SUBMITTALS:
Α.	SUBMIT MANUFACTURER'S DATA SHEETS ON CLEAN OUTS AND FLOOR DRAINS.	A. SUBMIT MANUFACTURE'S DATA SHEETS ON VALVES AND SUPPRESSORS.
В.	SUBMIT LIST OF PIPING PRODUCTS TO BE USED FOR THE LISTED SERVICES AND STATE THEIR MANUFACTURERS, CLASSES OR TYPES, AND OTHER APPLICABLE DATA.	B. SUBMIT LIST OF PIPING PRODUCTS TO BE USED AND S MANUFACTURERS, CLASSES OR TYPES, AND OTHER APPL
C.	SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION AND ROUTING OF INSTALLED PIPING.	C. SUBMIT SHOP DRAWINGS OF SHOCK SUPPRESSORS LAYO
D.	SUBMIT SHOP DRAWINGS ON MANHOLES INDICATING MANUFACTURED ITEMS, REINFORCING STEEL REQUIREMENTS, ETC.	<ul> <li>D. SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION OF INSTALLED PIPING.</li> <li>E. SUBMIT CERTIFICATE OF COMPLETION OF CHLORINATION.</li> </ul>
PART 2	PRODUCTS	
2.01	PIPING:	PART 2 PRODUCTS
А.	UNDERGROUND DRAIN AND VENT PIPING INSIDE BUILDING AND TO FIVE FEET OUTSIDE BUILDING:	2.01 PIPING:
	1. SCHEDULE 40 PVC PIPE AND FITTINGS.	A. FOR UNDERGROUND WATER SERVICE PIPING OUTSIDE BU METER:
В.	ABOVE GROUND DRAIN AND VENT PIPING:	1. ASTM B88 TYPE AS INDICATED ON DRAWINGS HARD WITH WROUGHT COPPER FITTINGS AND JOINTS MADE
	1. SCHEDULE 40 PVC PIPE AND FITTINGS.	SOLDER.
С.	WASTE ARMS FOR LAVATORIES, SINKS, AND URINALS:	2. THICKNESS CLASS 50, CEMENT LINED, SEAL COATE SPIGOT TYPE DUCTILE IRON WITH JOINTS MADE WIT
	<ol> <li>DWV COPPER PIPE WITH CAST BRASS ADAPTERS AND WROUGHT COPPER FITTINGS AND JOINTS MADE WITH 50-50 SOLDER.</li> </ol>	COMPRESSION RINGS MANUFACTURED FOR THE PUF
	2. SCHEDULE 40 GALVANIZED STEEL PIPE WITH SCREWED	B. FOR UNDERGROUND WATER PIPING INSIDE BUILDING AND
D.	FITTINGS (OPTIONAL). UNDERGROUND SEWER PIPING OUTSIDE BUILDING TO SEWER MAIN:	OUTSIDE BUILDING 1. 1" AND SMALLER – ASTM B88 TYPE AS INDICATED SOFT COPPER TUBING WITH NO FITTINGS OR JOINTS
F	1. SCHEDULE 40 PVC PIPE AND FITTINGS.	UNDER SLAB. MAKE CONNECTIONS ABOVE SLAB US COPPER FITTINGS AND 95-5 SOLDER.
L. 2.02	CONDENSATION DRIP AND OVERFLOW PIPING: SOLVENT-CEMENT WELD.	2. 1–1/4" AND LARGER – ASTM B88 TYPE AS INDICA HARD COPPER TUBING WITH WROUGHT COPPER FIT MAKE WITH SIL-FOS SOLDER (15% SILVER CONTEN
Α.	PROVIDE CLEAN OUTS COMPATIBLE WITH TYPE OF DRAIN PIPING TO WHICH IT IS CONNECTED. PROVIDE COVERS COMPATIBLE WITH TYPE	C. FOR EXPOSED PIPING IN TOILET ROOMS AND OTHER FIN
	OF FLOOR OR WALL FINISH WITH CONSIDERATION GIVEN TO TRAFFIC CONDITIONS. MAKE CLEAN OUTS SAME SIZE AS PIPE THROUGH 4	USE CHROME PLATED BRASS PIPE WITH THREADED FITT
_	INCHES.	D. FOR ABOVE GROUND WATER AND T & P RELIEF PIPING USE ASTM B88 TYPE AS INDICATED ON DRAWINGS HARE
В.	FLOOR CLEAN OUT (FCO): CAST IRON WITH TAPERED BRASS PLUG, THREADED ADJUSTABLE HOUSING, AND ROUND NICKEL BRONZE	WITH WROUGHT COPPER FITTINGS AND JOINTS MADE WI
	SCORIATED TOP.	E. SOLDER CONTAINING LEAD SHALL NOT BE USED ON PO SYSTEMS.
C.	CLEAN OUT TO GRADE (COTG): SAME AS FCO EXCEPT WITH HEAVY DUTY CAST IRON SCORIATED TOP. SET COTG IN 10-INCH DIAMETER	
	CONCRETE BASE 4-INCHS THICK AND FLUSH WITH FINISHED GRADE.	2.02 VALVES:
2.03	FLOOR DRAINS:	A. PROVIDE VALVES WITH SUITABLE MATERIALS INCLUDING I BALLS, GASKETS, LININGS, AND LUBRICANTS FOR THE S
Α.	STANDARD FLOOR DRAIN (FD): LACQUERED CAST IRON BODY WITH	TEMPERATURE, AND PRESSURE TO WHICH THEY WILL BE FURNISH WITH SOLDER OR SCREWED CONNECTIONS.
	FLANGE, CLAMPING COLLAR WITH SEEPAGE OPENINGS, AND ADJUSTABLE SQUARE SATIN BRONZE STRAINER. FLOOR DRAINS ARE	B. GATE VALVES: BRONZE, NON-RISING STEM, INSIDE CRE
	2 INCHES UNLESS SHOWN OTHERWISE.	WEDGE. C. GLOBE OR ANGLE VALVES: BRONZE, RISING STEM, INSI
	EXECUTION	RENEWABLE COMPOSITION DISC.
3.01	PREPARATION:	D. CHECK VALVES: BRONZE WITH SWING DISC.
	SWAB PIPES AND CLEAN JOINTS AND FITTINGS INSIDE AND OUT PRIOR TO MAKING CONNECTIONS. USE PROPER LUBRICANTS ON COMPRESSION GASKETS.	E. FREEZE PROOF HOSE BIBBS (FPHB): 3/4" ANTI-SIPHO NON-FREEZE TYPE WITH BRONZE CASING AND BOX WITI HANDLE. FURNISH FOR PROPER WALL THICKNESS.
3.02	INSTALLATION:	
Α.	UNLESS INDICATED OTHERWISE ON THE DRAWINGS, SLOPE HORIZONTAL	PART 3 EXECUTION
	DRAIN AND VENT PIPING IN ACCORDANCE WITH THE FOLLOWING:	3.01 PREPARATION:
	<u>SIZE</u> <u>MINIMUM_SLOPE</u> 3" AND SMALLER 1/4" PER FOOT 4" AND LARGER 1/8" PER FOOT	A. REAM PIPES AND TUBING AND THOROUGHLY CLEAN INSI OUTSIDE PRIOR TO CONNECTING.
	4 AND LARGER 1/8 PER FOOT	3.02 INSTALLATION:
В.	BURY ALL UNDERGROUND OUTSIDE SEWER PIPE A MINIMUM OF 2 FEET FROM FINISHED GRADE.	A. SLOPE WATER PIPING MINIMUM OF 1 INCH IN 40 FEET TO DRAIN AT ALL LOW POINTS.
C.	MAKE CLEAN OUT FREE FROM LEAKS. LUBRICATE CLEAN OUT PLUGS WITH MIXTURE OF GRAPHITE AND LINSEED OIL AND DO NOT OVER TIGHTEN.	B. BURY ALL UNDERGROUND OUTSIDE PIPING A MINIMUM C BELOW FINISHED GRADE.
D.	ARRANGE WITH LOCAL UTILITY FOR SEWER TAP AND PAY ALL COSTS TO ESTABLISH SEWER SERVICE.	C. USE ELECTRICALLY INSULATING TYPE CONNECTIONS FOR DISSIMILAR METALS SUCH AS BRASS VALVES OR ADAPTE INSULATING COUPLINGS.
3.03	TESTING:	D. USE PROPER ADAPTERS FOR SCREWED VALVES TO COPI
	BEFORE CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND	E. USE TEFLON TAPE OR OTHER APPROVED JOINTS COMPO CONNECT THREADED PIPE.
	PROVE LEAK FREE:	F. CONNECT TO T & P RELIEF VALVE AND EXTEND FULL S
	1. WATER TEST – SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR 30 MINUTES.	APPROVED DISCHARGE POINT.
	<ol> <li>AIR TEST – SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES. (OPTIONAL)</li> </ol>	G. WHERE PIPE PASSES THROUGH FINISHED WALL, CEILING, PROVIDE CHROME PLATED ESCUTCHEON PLATE SECUREL TO PIPE. INSTALL PIPE SO THAT NO THREADS SHOW.
		H. ARRANGE WITH LOCAL UTILITY FOR WATER TAP AND MET

	3.02	INSTALLATION CONTINUED: INSTALL GATE VALVE TO ISOLATE OR SHUT–OFF EQUIPMENT OR	3.02	INSTALLATION:			
	1.	BRANCH LINES. USE GLOBE VALVES WHERE ADJUSTABLE FLOW OR THROTTLING IS REQUIRED.	A.	SLOPE NATURAL GAS PIPING MINIMUM OF 1 INCH IN 40 FEET AND PROVIDE MINIMUM 12 INCH DEEP DRIP POCKET SAME SIZE AS PIPE, AT ALL LOW POINTS AND AT FINAL CONNECTIONS TO EQUIPMENT.		<ol> <li>CELLULAR GLASS: INORGANIC, INCOMBUSTIBLE, FOAMED OR CELLULATED GLASS WITH ANNEALED, RIGID, HERMETICALLY SEALED CELLS. FACTORY-APPLIED JACKET REQUIREMENTS ARE SPECIFIED IN "FACTORY-APPLIED JACKETS" ARTICLE.</li> </ol>	
		INSTALL HOSE BIBBS CENTERLINE, 2 FEET ABOVE FLOOR OR GRADE. INSTALL GARBAGE CAN WASH VALVE 4 FEET ABOVE FLOOR OR DRAIN.		PROVIDE MALLEABLE IRON REMOVABLE SCREW-ON CAP ON BOTTOM OF DRIP POCKET.		SUBJECT TO COMPLIANCE WITH LOCAL REQUIREMENTS:	
ELIEF PIPING.	K.	. PROVIDE PRV TO LIMIT MAXIMUM STATIC PRESSURE AT PLUMBING FIXTURES TO 70 PSIG. SUBMIT PRESSURE DATA TAKEN AT DIFFERENT TIMES AS APPROVED OR INSTALL PRV AT SERVICE CONNECTION OR IN BUILDING. PROVIDE PRV AT OTHER SEPARATE		BUY UNDERGROUND GAS PIPING MINIMUM OF 2 FEET BELOW FINISHED GRADE. PROVIDE ONE OR MORE ANODES, SIZED FOR PIPE SIZE AND LENGTH		A. FLEXIBLE ELASTOMERIC: CLOSED-CELL, SPONGE OR EXPANDED-RUBBER MATERIALS.	Г
	1	FIXTURES WHEN SHOWN ON DRAWINGS.		OF UNDERGROUND SERVICE. USE FLEXIBLE CONNECTOR AND GAS COCK FOR FINAL CONNECTION		B. HIGH-TEMPERATURE, MINERAL-FIBER BLANKET INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN.	
QUIREMENTS.	۲.	WITH SANITARY DRAINAGE SYSTEM OR OTHER NON-POTABLE SOURCES. PROVIDE REDUCED PRESSURE TYPE BACKFLOW PREVENTERS WHEN REQUIRED.	E.	TO EACH APPLIANCE OR OTHER GAS FUELED UNIT. PROVIDE DIELECTRIC UNION WHERE PIPING EMERGES FROM UNDERGROUND.		C. HIGH-TEMPERATURE, MINERAL-FIBER BOARD INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN.	
	3.03	TESTING: . BEFORE CONCEALING OR INSULATING, TEST DOMESTIC WATER PIPING	F.	WELD ALL CONNECTIONS WHERE PIPING MUST BE CONCEALED. PROVIDE VENTILATED PIPE SLEEVES WHERE REQUIRED.		<ul><li>D. MINERAL-FIBER, PERFORMED PIPE INSULATION.</li><li>E. MINERAL-FIBER, PIPE AND TANK INSULATION. MINERAL OR</li></ul>	
VALVES AND SHOCK	Α.	AND PROVE LEAK FREE. SUBJECT SYSTEM TO MINIMUM HYDROSTATIC PRESSURE OF 100 PSIG AND HOLD FOR ONE HOUR.	G.	USE TEFLON TAPE OR OTHER APPROVED JOINT COMPOUND TO CONNECT THREADED PIPE.		GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. F. POLYOLEFIN: UNICELLULAR, POLYETHYLENE THERMAL PLASTIC	
USED AND STATE THEIR D OTHER APPLICABLE DATA.	3.04	STERILIZATION:	H.	ARRANGE WITH LOCAL UTILITY FOR GAS TAP AND METER INSTALLATION. PAY ALL COSTS TO ESTABLISH NATURAL GAS SERVICE.		INSULATION. G. POLYSTYRENE: RIGID, EXTRUDED CELLULAR POLYSTYRENE	
RESSORS LAYOUT PROPOSED. TUAL LOCATION AND ROUTING	A.	. AFTER TESTS HAVE BEEN SUCCESSFULLY COMPLETED, THOROUGHLY FLUSH AND STERILIZE THE COMPLETED DOMESTIC WATER SYSTEM IN ACCORDANCE WITH AWWA C601.	Ι.	MAKE SURE ALL PIPING CONCEALED IN WALLS OR OTHER AREAS ARE PROPERLY VENTED. AT TOP OF SOLID WALLS VENT WITH OPENING WHICH IS 2 TIMES THE DIAMETER OF THE PIPE.	2.02	INTENDED FOR USE AS THERMAL INSULATION. INSULATING CEMENTS:	
CHLORINATION.	B.	. FLUSH ENTIRE SYSTEM AFTER STERILIZATION UNTIL RESIDUAL CHLORINE CONTENT IS NO GREATER THAN 0.2 PARTS PER MILLION.		PROVIDE VENTILATED PIPE SLEEVES UNDER ALL PAVING AND OTHER HARD SURFACES.	Α.	MINERAL—FIBER, HYDRAULIC—SETTING INSULATING AND FINISHING CEMENT: COMPLY WITH ASTM C 449/C 449M.	
	C.	. CHLORINATE ONLY WHEN THE BUILDING IS UNOCCUPIED.		BOND INTERIOR METAL GAS PIPING TO THE ELECTRICAL SYSTEM GROUND. PIPING SHALL BE ELECTRICALLY CONTINUOUS.	2.03 A	ADHESIVES: MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS,	
	END O	F SECTION		INSTALL CONTINUOUS STRIP OF PLASTIC UTILITY MARKER TAPE OVER GAS PIPING. USE STRIP WITH TRACE WIRE FOR PLASTIC PIPE.	,	JACKETS, AND SUBSTRATES AND FOR BONDING INSULATION TO ITSELF AND TO SURFACES TO BE INSULATED, UNLESS OTHERWISE INDICATED.	
G OUTSIDE BUILDING TO WATER	NATUD	AL GAS PIPING SYSTEM		IDENTIFY AND LABEL MEDIUM PRESSURE GAS PIPING AT BOTH ENDS AND THE 6 FOOT INTERVALS IN BETWEEN.		1. CELLULAR–GLASS POLYSTYRENE. 2. FLEXIBLE ELASTOMERIC AND POLYOLEFIN.	
RAWINGS HARD COPPER TUBING D JOINTS MADE WITH 95–5	SECTIO	N 15413	N.	CONTRACTOR SHALL COORDINATE WITH LOCAL GAS COMPANY THE STANDARD GAS PRESSURE. SHOULD THE SYSTEM EXCEED THE STANDARD GAS PRESSURE AND USE MEDIUM OR HIGH PRESSURE GAS		<ol> <li>MINERAL—FIBER.</li> <li>POLYSTYRENE.</li> <li>ASJ, FSK, AND PVDC JACKET ADHESIVE.</li> </ol>	
), SEAL COATED, HUB AND NTS MADE WITH RUBBER	PART 1	1 GENERAL WORK INCLUDED:		CONTRACTOR SHALL PROVIDE A GAS REGULATOR AT EACH PIECE OF EQUIPMENT REQUIRING GAS SHOULD LOCATIONS NOT BE SHOWN ON DRAWINGS. PROVIDE VENTING ACCORDINGLY SHOULD THE REGULATOR	2.04	6. PVC JACKET. MASTICS:	
FOR THE PURPOSE. (OPTIONAL)		. UNDERGROUND NATURAL GAS SERVICE PIPING. . INTERIOR NATURAL GAS PIPING.	3.03	BE INSTALLED INSIDE THE BUILDING. TESTING:	A. B.	VAPOR-BARRIER MASTIC BREATHER MASTIC.	
BUILDING AND TO FIVE FEET		. EXTERIOR EXPOSED NATURAL GAS PIPING. . CONNECTORS FOR APPLIANCES AND OTHER EQUIPMENT.	A.	BEFORE CONCEALING, TEST NATURAL GAS PIPING SYSTEM AND PROVE LEAK FREE. SUBJECT SYSTEM TO AT LEAST 50 PSIG AIR PRESSURE	2.05 A.	SEALANTS: JOIN SEALANT.	
AS INDICATED ON DRAWINGS NGS OR JOINTS PERMITTED ABOVE SLAB USING WROUGHT		. COCKS.	В.	FOR 3 MINUTES. CHECK UNDERGROUND PIPING COATING WITH A "HOLIDAY" DETECTOR	В.	FSK AND METAL JACKET FLASHING SEALANT. ASJ FLASHING SEALANT AND VINYL, PVDC, AND PVC JACKET FLASHING SEALANT.	
YPE AS INDICATED ON DRAWINGS	1.02 A.	RELATED WORK: . SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.	END OF	AND PROVE FREE FROM LEAKAGE CURRENTS THROUGH COATING. SECTION	2.06	FACTORY-APPLIED JACKETS:	
T COPPER FITTINGS AND JOINTS ILVER CONTENT).	1.03	SUBMITTALS:	INSULAT	ION	B. C.	ASJ-SSL FSK PVDC JACKET FOR INDOOR APPLICATIONS	
AND OTHER FINISHED AREAS, THREADED FITTINGS.		SUBMIT MANUFACTURER'S DATA SHEETS ON GAS COCKS.		GENERAL	E. F.	PVDC JACKET FOR OUTDOOR APPLICATIONS PVDC—SSL JACKET	
RELIEF PIPING INSIDE BUILDING,		<ul> <li>SUBMIT LIST OF PIPING PRODUCTS TO BE USED AND STATE THEIR MANUFACTURERS, CLASSES OR TYPES, AND THERE APPLICABLE DATA.</li> <li>SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION AND</li> </ul>	1.01	WORK INCLUDED:	2.07 A.	FIELD-APPLIED FABRIC-REINFORCING MESH: WOVEN POLYESTER FABRIC	[
RAWINGS HARD COPPER TUBING INTS MADE WITH 95–5 SOLDER.	C	ROUTING OF PIPING AS INSTALLED.	A. B.	INSULATION MATERIALS. INSULATING CEMENTS. ADHESIVES.	2.08	FIELD-APPLIED JACKETS: PVC JACKET	
USED ON POTABLE WATER	1.04 A.	QUALITY ASSURANCE: . CONFORM TO ASME CODE AND APPLICABLE STATE REGULATIONS WITH	D. E. F	ADRESIVES. MASTICS. SEALANTS. FACTORY—APPLIED JACKETS.	В.	ALUMINUM JACKET UNDERGROUND DIRECT-BURIED JACKET	
		ALL WELDING MATERIALS AND WELDING OPERATOR'S QUALIFICATIONS. USE ONLY OPERATORS FULLY QUALIFIED AND CERTIFIED UNDER THE REQUIREMENTS OF THE ARKANSAS GAS PIPELINE CODE (AFPC).		FIELD-APPLIED FABRIC-REINFORCING MESH. FIELD-APPLIED JACKETS. TAPES.	2.09 A.	TAPES: ASJ	
S INCLUDING DISC, PLUGS, IS FOR THE SERVICE,	PART 2	2 PRODUCTS	J. K.	SECUREMENTS. CORNER ANGLES.	C. D.	FSK PVC ALUMINUM-FOIL	
THEY WILL BE EXPOSED. NECTIONS. M, INSIDE CREW, DOUBLE	2.01	PIPING:	1.02	RELATED WORK: A. SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.	E. 2.10	PVC SECUREMENTS:	
NG STEM, INSIDE CREW,	А.	. UNDERGROUND PIPING: 1. PLASTIC PIPE OR TUBING AND FITTINGS CONFORMING WITH		B. SECTION 15005 MECHANICAL INSULATION.	A. B.	ALUMINUM BANDS INSULATION PINS AND HANGERS NONMETAL, ADHESIVELY ATTACHED, PERFORATED–BASE INSULATION	
5C.		ASTM D 2513. REINFORCED EPOXY RESIN GAS PIPE AND FITTINGS CONFORMING TO ASTM D 2517 FOR OUTSIDE UNDERGROUND USE ONLY. PLASTIC SHALL BE USED ONLY	1.03	SUBMITTALS: A. PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED.	D.	HANGERS SELF-STICKING BASE INSULATION HANGERS INSULATION-RETAINING WASHERS	
4" ANTI-SIPHON		BELOW GRADE. PLASTIC PIPE AND FITTINGS SHALL BE JOINED BY APPROVED METHODS AND MANUFACTURING INSTRUCTIONS.		<ul> <li>B. SHOP DRAWINGS DETAILING APPLICATION OF PROTECTIVE SHIELDS, SADDLES, AND INSERTS AT HANGERS FOR EACH TYPE</li> </ul>		NONMETAL INSULATION-RETAINING WASHERS STAPLES WIRE	
AND BOX WITH LOOSE KEY IICKNESS.		<ol> <li>MILL COAT PIPE WITH HIGH DENSITY POLYETHYLENE OVER ADHESIVE UNDERCOATING.</li> <li>WRAP FIELD JOINTS AND FITTINGS WITH REPUBLIC</li> </ol>		C. DETAIL ATTACHMENT AND COVERING OF HEAT TRACING INSIDE	2.11	CORNER ANGLES:	
		"X-TRU-TAPE" OR EQUAL PER MANUFACTURER'S RECOMMENDATIONS.		<ul><li>D. DETAIL INSULATION APPLICATION AT PIPE EXPANSION JOINTS FOR</li></ul>		PVC CORNER ANGLES ALUMINUM CORNER ANGLES	
	В	ABOVE GROUND PIPING: 1. SCHEDULE 40 BLACK STEEL OR GALVANIZED STEEL WITH		EACH TYPE OF INSULATION. E. DETAIL INSULATION APPLICATION AT ELBOWS, FITTINGS, FLANGES,		EXECUTION	
LY CLEAN INSIDE AND		MALLEABLE IRON FITTINGS OR WELDED JOINTS WITH BUTTWELD FITTINGS. 2. STAINLESS STEEL TUBING, FITTINGS, AND ACCESSORIES SHALL		VALVES, AND SPECIALTIES FOR EACH TYPE OF INSULATION. F. DETAIL REMOVABLE INSULATION AT PIPING SPECIALTIES,	A.	SURFACE PREPARATION: CLEAN AND DRY SURFACES TO RECEIVE INSULATION. REMOVE MATERIALS THAT WILL	THE OF AUTHORIZE
		BE TESTED, LISTED, AND INSTALLED PER ANSI/AGA LC-1, MFPA AND FACTORY MUTUAL. SHALL HAVE POLYETHYLENE JACKET. SHALL MEET STATE AND LOCAL APPROVALS. SHALL		EQUIPMENT CONNECTIONS, AND ACCESS PANELS. G. DETAIL APPLICATION OF FIELD-APPLIED JACKETS.	В.	ADVERSELY AFFECT INSULATION APPLICATION. COORDINATE INSULATION INSTALLATION WITH THE TRADE	ADVANCED CONSULTING ENGINEERS, INC.
I IN 40 FEET AND ARRANGE		BE EQUAL TO TRACE PIPE BY OMEGA FLEX.		H. DETAIL APPLICATION AT LINKAGES OF CONTROL DEVICES.	^	INSTALLING HEAT TRACING. COMPLY WITH REQUIREMENTS FOR HEAT TRACING THAT APPLY TO INSULATION.	No. 27
A MINIMUM OF 3 FEET	С	<ul> <li>CONNECTORS FOR APPLIANCES AND OTHER EQUIPMENT:</li> <li>PVC COOLED SPIRAL FLEXIBLE BRASS CONNECTOR WITH</li> </ul>		<ol> <li>DETAIL FIELD APPLICATION FOR EACH EQUIPMENT TYPE.</li> <li>J. FIELD QUALITY-CONTROL REPORTS.</li> </ol>	C.	MIX INSULATING CEMENTS WITH CLEAN POTABLE WATER; IF INSULATING CEMENTS ARE TO BE IN CONTACT WITH STAINLESS-STEEL SURFACES, USE DEMINERALIZED WATER.	ARKANSAS MININ
NECTIONS FOR JOINING ES OR ADAPTERS OR		BRASS FLARED GAS TUBING FITTINGS.	PART 1	GENERAL	3.02	GENERAL INSTALLATION REQUIREMENTS:	PRIOR TO BID/START OF CONSTRUCTION REQUIREMENTS THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND IN
ALVES TO COPPER PIPING.		. WELDING ROD – SAME MATERIAL AS PIPE.	2.01	PRODUCTS:	А.	INSTALL INSULATION MATERIALS, ACCESSORIES AND FINISHES WITH SMOOTH, STRAIGHT, AND EVEN SURFACES; FREE OF VOIDS THROUGHOUT THE LENGTH OF EQUIPMENT AND PIPING	SOME CASES, BASED ON INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR
JOINTS COMPOUND TO	2.02	GAS COCKS:	Α.	INSULATION MATERIALS. 1. PRODUCTS SHALL NOT CONTAIN ASBESTOS, LEAD, MERCURY, OR MERCURY COMPOUNDS.		INCLUDING FITTINGS, VALVES, AND SPECIALTIES. INSTALL INSULATION MATERIALS, FORMS, VAPOR BARRIERS OR RETARDERS JACKETS AND THICKNESS' REQUIRED FOR EACH	SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH
XTEND FULL SIZE TO	А.	. IRON BODY WITH BRASS PLUG AND WASHER WITH SCREWED OR FLANGED ENDS RATED FOR 125 LB. WOG.		2. PRODUCTS THAT COME IN CONTACT WITH STAINLESS STEEL SHALL HAVE A LEACHABLE CHLORIDE CONTENT OF LESS THAN		RETARDERS, JACKETS, AND THICKNESS' REQUIRED FOR EACH ITEM OF EQUIPMENT AND PIPE SYSTEM. INSTALL ACCESSORIES COMPATIBLE WITH INSULATION	THE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
WALL, CEILING, OR FLOOR, LATE SECURELY ANCHORED READS SHOW.	PART 3	EXECUTION:		50 PPM WHEN TESTED ACCORDING TO ASTM C 871. 3. INSULATION MATERIALS FOR USE ON AUSTENITIC STAINLESS		MATERIALS AND SUITABLE FOR THE SERVICE.	ANY COST SAVINGS OPTIONS OR REUSE OF EXISTING EQUIPMENT, MATERIAL OR DEVICES SHALL BE MADE AVAILABLE TO THE OWNER
TAP AND METER LISH WATER SERVICES.		PREPARATION: REAM PIPES AND TUBING PRIOR TO CONNECTION.		STEEL SHALL BE QUALIFIED AS ACCEPTABLE ACCORDING TO ASTM C 795.	END OF	SECTION	AND THE ARCHITECT FOR REVIEW. ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OR
		REAM PIPES AND TUBING PRIOR TO CONNECTION. REMOVE WELDING SLAG FROM WELDED CONNECTIONS.		4. FOAM INSULATION MATERIALS SHALL NOT USE CFC OR HCFC BLOWING AGENTS IN THE MANUFACTURING PROCESS.		Φη κην μοτ	FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED OR COMPENSATED. COORDINATE ALL LOUVER SIZES AND LOCATIONS
						ROGERS, AR 72756	CONSTRUCTION. LAYOUT ALL
						DVANCED CONSULTING ENGINEERS         FX 479.631.1854           MECHANICAL         ELECTRICAL         INDUSTRIAL         ACEI@ADVENGINEERS.COM	CLEARANCES ARE AVAILABLE. CONTACT ARCHITECT IMMEDIATELY WITH ANY ISSUES.







# LEGEND

	CONDUIT AND WIRE CONCEALED IN WALL OR ABOVE CEILING
	CONDUIT AND WIRE CONCEALED UNDERFLOOR OR UNDERGROUND
	LUMINAIRE SYMBOLS. SEE LUMINAIRE SCHEDULE FOR
ою б	SPECIFIC FIXTURES.
\$	SINGLE POLE, SINGLE THROW LIGHT SWITCH, 20A
\$ <sub>3</sub>	(WP = WEATHERPROOF COVER) THREE-WAY LIGHT SWITCH, 20A
\$ <sub>AS</sub>	SINGLE POLE, SINGLE THROW LIGHT SWITCH WITH AUTO SENSOR
\$ <sub>PL</sub>	SINGLE POLE, SINGLE THROW LIGHT SWITCH WITH PILOT LIGHT
\$ <sub>PB</sub>	PUSHBUTTON DOOR BELL ACTIVATOR
5 \$ <sub>τ</sub>	TIMER SWITCH
\$ <sub>D</sub>	DIMMER SWITCH
\$ <sub>V</sub>	VARIABLE SPEED FAN CONTROL SWITCH
$\Theta$	SINGLE RECEPTACLE, GROUNDED
\$	DUPLEX RECEPTACLE, GROUNDED
⊖ <sub>IG</sub>	DUPLEX RECEPTACLE, ISOLATED GROUND
	DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTION (GFCI)
	DUPLEX RECEPTACLE, GFCI WITH WEATHERPROOF COVER
<b>ি</b> দৈব	DUPLEX RECEPTACLE, WITH (2) USB PORTS
Ø	FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE SPECIAL PURPOSE RECEPTACLE AS NOTED
C	TELEVISION CABLE OUTLET
$\breve{\mathbf{V}}$	WITH 3/4" C.O. TO MATV
	J-BOX
$\mathbf{V}^{H}$	HIGH DEFINITION TV
V	OUTLET WITH (3) CAT6 CABLES
	FIRE ALARM SYSTEM CONTROL PANEL
FACP F	FIRE ALARM SYSTEM CONTROL FANEL
	FIRE ALARM SYSTEM MINI-HORN/STROBE COMBINATION, GUESTROOM
X	FIRE ALARM SYSTEM STROBE
- N	FIRE ALARM SYSTEM HORN/STROBE
SD	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR, GUESTROOM
SD	FIRE ALARM SYSTEM SMOKE DETECTOR
DSD	FIRE ALARM SYSTEM DUCT MOUNT SMOKE DETECTOR
FSD Ø	FIRE ALARM SYSTEM THERMAL DETECTOR 120V CONNECTION TO FIRE/SMOKE DAMPER
(FSD) O <sub>FSD</sub> X	DOORBELL CHIME WITH ALERT LIGHT
0	JUNCTION BOX
Ū	THERMOSTAT
	TELEPHONE TERMINAL BOARD (TTB)
•	TELEPHONE OUTLET, MOUNTED AT 18" UNLESS OTHERWISE INDICATED
◀48" HP	HOUSE TELEPHONE OUTLET MOUNTED AT 48" AFF WITH MINIMUM $1/2$ " C.O. TO TTB
Т	TELEPHONE ALERT LIGHT, SIMILAR TO FIRE ALARM STROBE, WHITE COVERPLATE, WHITE STROBE LENS, WITH "PHONE" ON BOTH SIDES OF LENS IN BLACK LETTERS
4	COMPUTER OUTLET, MOUNTED AT 18" UNLESS OTHERWISE INDICATED
⊲ (#)	COMPUTER OUTLET, # INDICATES NUMBER OF CAT6 JACKS, NO NUMBER INDICATES ONE CABLE
	DUPLEX TELEPHONE/DATA OUTLETS
●	PUSHBUTTON
	PANELBOARD
	ELECTRICAL DISTRIBUTION EQUIPMENT
	DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER
	COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SWITCH
<u>ک</u> اکتا	
TS Ø	TIME SWITCH MOTOR CONNECTION
У \$ <sub>М</sub>	MOTOR RATED SWITCH
	CONNECTION TO ELECTRONIC CARD READER/DOOR RELEASE
	CLOSED CIRCUIT SECURITY CAMERA
$ \bigcirc $	ELECTRO-MAGNETIC DOOR HOLDER
XX	SPEAKER – CEILING

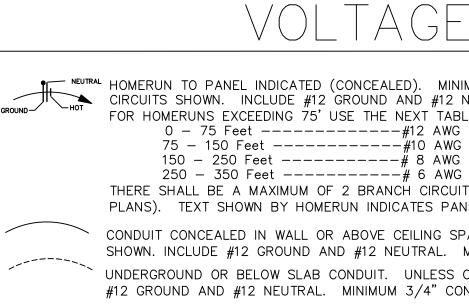
# NEC GENER/

- . WHERE THE CONDUCTORS IN A RACEWAY OR CAB AMPACITY OF EACH CONDUCTOR SHALL BE REDUC (310.15(B)(2))
- 2. WHERE THE CONDUCTORS OR CABLES ARE INSTAL SUNLIGHT ON OR ABOVE ROOFTOPS SHALL BE REDUCED PER
- 3. WHERE TWO DIFFERENT AMPACITIES APPLY TO AD AMPACITY SHALL BE PER THE 310.15(2) EXCEPTION.
- 4. WHERE THE MAXIMUM AMBIENT TEMPERATURE IS CORRECTION FACTORS SHALL APPLY TO CONDUCTORS. (TABL
- 5. INDICATE WHICH WIRING METHODS (E.G., FMC, EMT INSTALLED AT ANY/ALL LOCATIONS ON THE PLANS. (CHAP
- 6. NOT USED
- 7. NOT USED
- 8. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PR SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT ORIGINATES. (210.4(B)).
- 9. ALL WORK TO COMPLY WITH NATIONAL ELECTRIC
- 10. THE UNGROUNDED AND GROUNDED CONDUCTORS SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT PANELBOARD OR OTHER POINT OF ORIGINATION. (210.4(D))
- 11. PROVIDE SEPARATE SUBMITTAL, OBTAIN ALL REQU APPROVALS FOR ALL FIRE ALARM SYSTEM INSTALLATIONS AND / ALL INSTALLED EQUIPMENT SHALL BE LISTED AN TESTING LABORATORY.
- 12. ALL INSTALLED EQUIPMENT AND MATERIAL SHALL THE INTENDED PURPOSE.
- 13. ALL EQUIPMENT TO BE U.L. LISTED OR EQUIVALEN
- 14. FIELD VERIFY SERVICE RECEPTACLE IS PROVIDED EQUIPMENT. (210.63)
- 15. MULTIPLE RACEWAYS CONTAINING MORE THAN 2 COMPLY WITH [2017, NEC, 310.15(B)(2)(A)].
- 16. WHERE THE DISCONNECTS ARE NOT PROVIDED WIT SUPPLIES. THE SWITCH OR CIRCUIT BREAKER MUS LOCK. AND THESE PROVISIONS MUST REMAIN WIT
- PROVISIONS HAVE TO BE PART OF THE EQUIPME 17. DESIGN OR AS AN ACCESSORY FEATURE THAT C [410.141(B), 422.31(B), 424.19, 440.14 EXCEPTION 600.6(A)(2)(3), 620.51(A) EXCEPTION NO. 1, 620.
- 18. LIGHT FIXTURE IN CONTACT WITH INSULATION TO PROVIDE 3" MINIMUM CLEARANCE.
- 19. LIGHTS AND PANELS SHALL NOT BE RECESSED IN WITH EQUIVALENT CONSTRUCTION.
- 20. MOUNT THE FOLLOWING ABOVE FINISHED FLOOR: OUTLETS- 18" TO 48" SWITCHES- 36" TO 48"
- THERMOSTATS- 36" TO 48" MEASURED FROM BOTTOM & TOP OF BOXES RESP
- 21. PANEL CIRCUIT DIRECTORY TO COMPLY WITH SECT
- 22. W.P. COVER OF OUTLETS TO COMPLY WITH SECT.

APPLICABLE CO

CODES:

 NATIONAL ELECTRICAL CODE 2017 COMPLY WITH LOCAL JURISDICTION REQUIREM



AL NOTES:				ABBREVIATI(	SNC	$\sum$
BLE EXCEEDS THREE, THE ALLOWABLE JCED PER TABLE 310.15(B)(2). ALLED IN CONDUITS EXPOSED TO DIRECT TABLE 310.15(B)(2)(C). DJACENT PORTIONS OF A CIRCUIT, THE OVER 30°C, (86°F), THE REFERENCED LE 310.16 TO 19) AT, AC, IMC, RMC, ETC.) ARE TO BE PTER 9, TABLES 4, 5 &5A, APPENDIX C) ROVIDED WITH A MEANS THAT WILL THE POINT WHERE THE BRANCH CIRCUIT			A AC AFF AIC AL AMP AWG BKR BLDG BOH C CKT CO CT CU CW DCO DN EXIST EF ELEC EMT EQUIP FLR FLUOR FOH GFCI	AMPERE ALTERNATING CURRENT, ABOVE COUNTER ABOVE FINISHED FLOOR AMPS INTERRUPTING CAPACITY ALUMINUM AMPERE AMERICAN WIRE GAUGE BREAKER BUILDING BACK OF HOUSE COIL or CONDUIT CIRCUIT CONDUIT/RACEWAY ONLY CURRENT TRANSFORMER COPPER COOL WHITE DUPLEX CONVENIENCE OUTLET DOWN EXISTING EXHAUST FAN ELECTRICAL ELECTRICAL METALLIC TUBING EQUIPMENT FLOOR FLUORESCENT FRONT OF HOUSE GROUND FAULT CIRCUIT INTERRUPTER	GND GRS HID HP HT KCMIL KEC KVA KW LTG MFR MIN MLO N MEC NEMA NT NEC NEMA NT NTS PNL POC PT PVC PWR QTY RECEPT RI RM	GROUND GALVANIZED RIGID STEEL HIGH INTENSITY DISCHARGE HORSEPOWER HEAT TRACE THOUSAND CIRCULAR MILLS KITCHEN EQUIPMENT CONT KILOVOLT AMPERES KILOWATT LIGHTING MANUFACTURER MINIMUM MAIN LUGS ONLY NEUTRAL NATIONAL ELECTRICAL COI NATIONAL ELECTRICAL MA NEON TRANSFORMER NOT TO SCALE PANEL POINT OF CONNECTION POTENTIAL TRANSFORMER POLYVINYL CHLORIDE POWER QUANTITY RECEPTACLE ROUGH—IN ROOM
		GEI	NER	AL NOTES		
CODE 2020. OF EACH MULTI-WIRE BRANCH CIRCUIT T LEAST ONE LOCATION WITHIN THE	1.	ELECTRICAL CODE	E, NATIONAL E	TION IN ACCORDANCE WITH NATIONAL LECTRICAL SAFETY CODE, LOCAL CODES, TS OF UTILITY COMPANIES FURNISHING		
UIRED PERMITS, INSPECTIONS AND	2,	ELECTRICAL DRAW	WINGS ARE DIA	COMPLETE ELECTRICAL SYSTEMS. THE GRAMMATIC AND DO NOT NECESSARILY SHOW TOR OR SIMILAR ITEMS FOR A COMPLETE		
OR MODIFICATIONS APPROVED BY A CITY APPROVED BE NRTL LISTED AND APPROVED FOR	3.	THE CONTRACTOR CONDITIONS WHIC SHALL BE BROUG BIDDING. PLANS A CONDITIONS. THE	H MAY AFFEC GHT TO THE A ARE BASED ON CONTRACTOR	THE SITE PRIOR TO BID AND DETERMINE T BID. ANY ITEMS NOT FULLY UNDERSTOOD TTENTION OF THE ARCHITECT PRIOR TO N OUR BEST UNDERSTANDING OF EXISTING SHALL BE RESPONSIBLE FOR FIELD		
NT.	4.	"REF" INDICATION	S DENOTE WO	T EXISTING CONDITIONS. RK COVERED ELSEWHERE OR MECHANICAL).		
WITHIN 25' OF MECHANICAL	5.	WHEREVER THE WINSTALL COMPLET		E" IS USED, IT MEANS, "FURNISH AND FOR USE."		
CURRENT CARRYING CONDUCTORS SHALL	6. 7.			CTRICAL WITH OTHER TRADES.		SF
ITHIN SIGHT FROM THE EQUIPMENT IT ST INCLUDE PROVISIONS FOR ADDING A TH THE EQUIPMENT. THESE LOCKING	/.			AL EQUIPMENT, UNLESS OTHERWISE		SHEET NUMBER
NT, EITHER INHERENT TO THE EQUIPMENT CAN BE INSTALLED ON THE EQUIPMENT. ON NO. 1,	8.			CEWAYS PER NATIONAL ELECTRICAL CODE.		E-000
0.53, 620.55]	9.			R THE ARCHITECTURAL DRAWINGS.		E-100 E-101
	11.			OR TV, CONFIRM REQUIREMENTS WITH ARCHITEC	т.	E-600
BE U.L. LISTED FOR THERMAL BARRIER OR	12.		СК ТО ВАСК".	D IN WALLS SEPARATING TWO ROOMS SHALL NO INSTALL PUTTY PACKS BEHIND NEW BOXES FOR	Т	E-700
N FIRE RATED ASSEMBLIES UNLESS BOXED,	13.	ALL RECEPTACLES HEIGHT AS REQUII		IS SHALL BE BETWEEN 18" AND 48" AFF. ADJUS ADA.	Т	
	14.	NOT USED				
	15.	CONTRACTOR TO WALLS THROUGHO		MOUNT ALL RECEPTACLES BOXES IN FINISHED		
PECTIVELY. TION 408.4, NEC.	16.	CONTRACTOR TO	LABEL PROPER	LY ALL SERVICES AND UNIT PANELS.		
406.8 (B) (I), NEC.	17.	CONTRACTOR TO INSTALLATIONS .	INSTALL WET R	ATED ALARM WIRE IN UNDER GROUND		
	18.	NOT USED				
ODES	- 19.	NOT USED				
EMENTS						

# VOLIAGE DROP NOIES:

HOT RAL HOMERUN TO PANEL INDICATED (CONCEALED). MINIMUM 3/4" CONDUIT. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF FOR HOMERUNS EXCEEDING 75' USE THE NEXT TABLE TO SIZE THE CONDUCTORS:

THERE SHALL BE A MAXIMUM OF 2 BRANCH CIRCUITS FOR SINGLE PHASE AND 3 BRANCH CIRCUITS FOR THREE PHASE PER HOMERUN (AS INDICATED ON THE PLANS). TEXT SHOWN BY HOMERUN INDICATES PANELBOARD DESIGNATION AND CIRCUIT NUMBER(S). CONDUIT CONCEALED IN WALL OR ABOVE CEILING SPACE. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS

SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL. MINIMUM 3/4" CONDUIT. UNDERGROUND OR BELOW SLAB CONDUIT. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL. MINIMUM 3/4" CONDUIT.

STEEL CHARGE MILLS CONTRACTOR CAL CODE (NFPA-70) CAL MANUFACTURERS ASSOCIATION RO

SHT

SPEC

SW

SWBD

SWGR

TYP

UG

UL

V

W

WW

WP

W/

W/O XFMR

XFR

Ζ

UON

RACEWAY ONLY SHEET SPECIFICATIONS SWITCH SWITCHBOARD SWITCHGEAR TYPICAL UNDERGROUND UNDERWRITERS LABORATORIES UNLESS OTHERWISE NOTED VOLTS WATTS WARM WHITE WEATHERPROOF WITH WITHOUT TRANSFORMER TRANSFER IMPEDANCE OR ZONE



SHEET NAME	

ELECTRICAL LEGEND & ABBREVIATIONS
LIGHTING PLAN
POWER PLAN
ELECTRICAL SCHEDULES & ONE-LINE
SPECIFICATIONS



EQUIPMENT IN MECHANICAL ROOM

CLEARANCES ARE AVAILABLE

WITH ANY ISSUES.





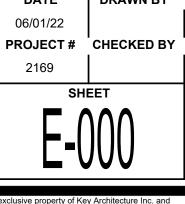
PH 479.631.1712 || EQUIPMENT IN MECHANICAL ROOM TO ENSURE PROPER SPACE AND FX 479.631.1854

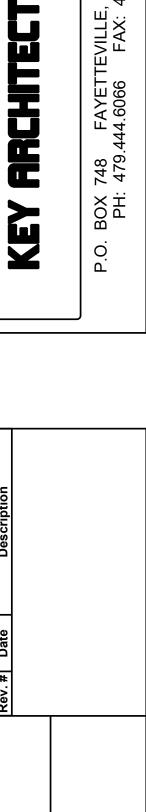
NEW OFFICE WAREHOU 2247 WORTH LANE SPRINGDALE, ARKANSA	MTNWA INVESTMENTS, I 1457 E. ROBINSON AVE. SPRINGDALE, AR 72764	
DATE	DRAWN BY	•
06/01/22		

()

REHOUSE

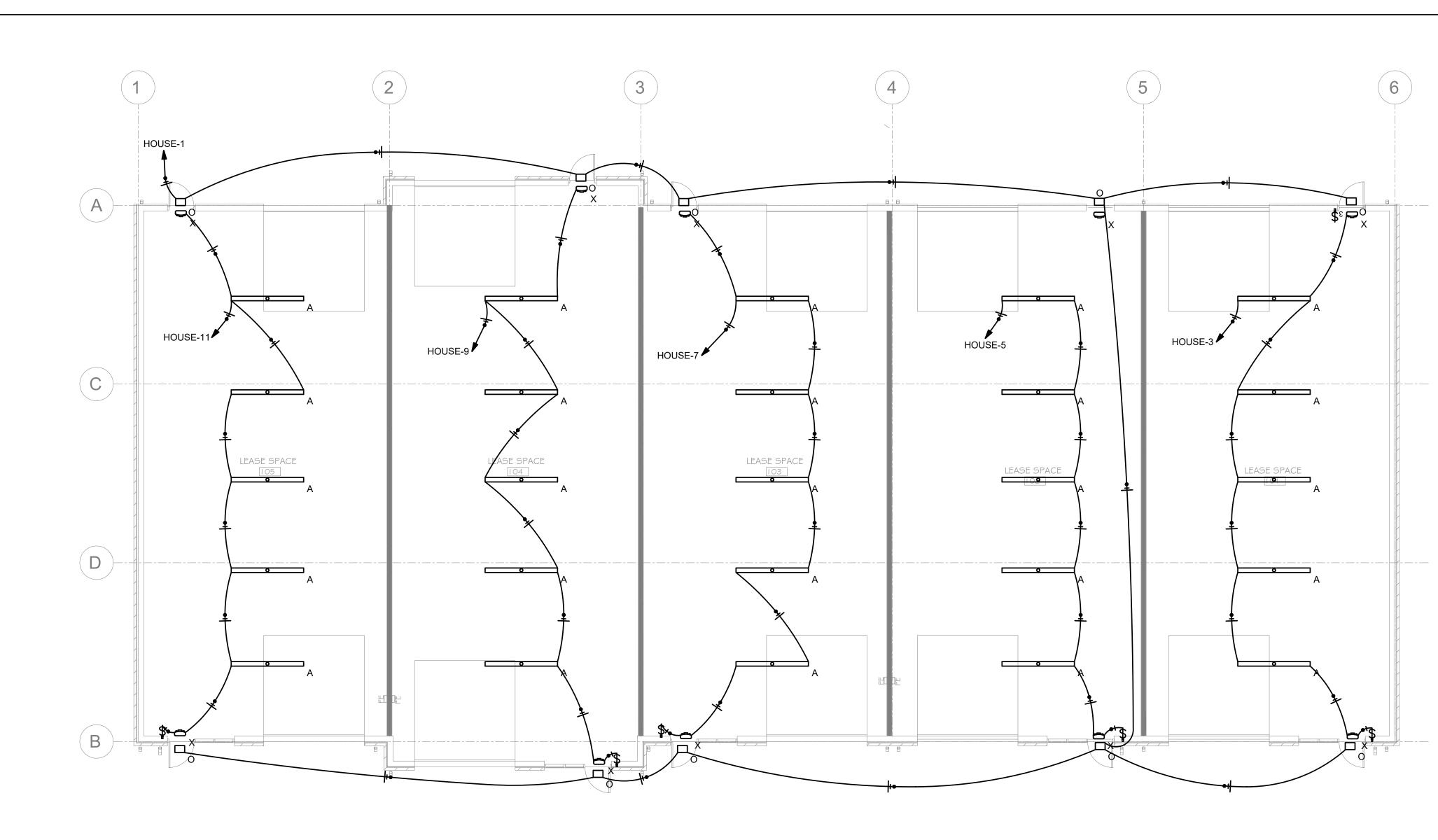
ANSAS

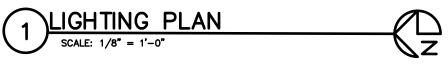




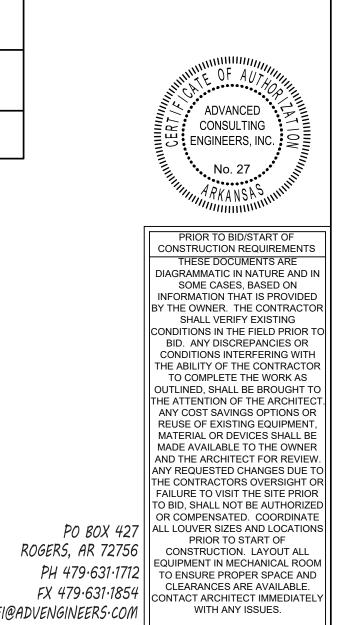
**LRE** 

is prohibited without written consents.

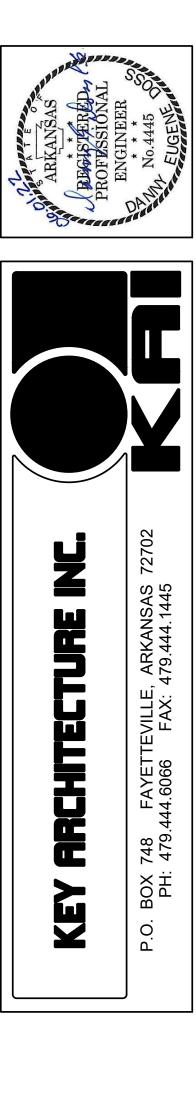




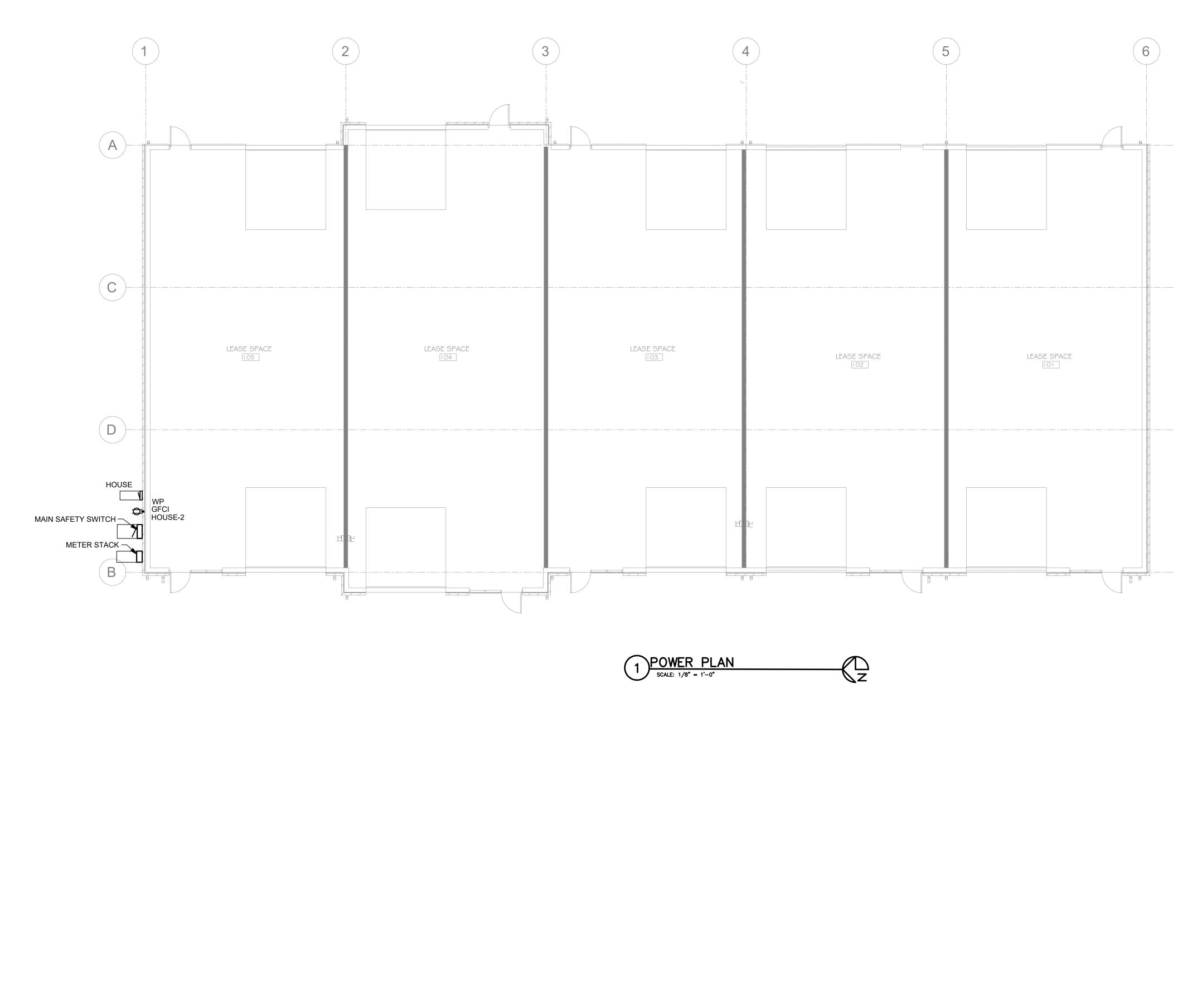
	LUMINAIRE SCHEDULE							
CALLOUT	SYMBOL	LAMP	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE 2	
A	<b>—</b>	(1)	SURFACE	Lithonia Lighting, CSS L96 ALO4 MVOLT SWW3 80CRI (8000LM 3500K)	68.4	120V 1P 2W		
0		(1) LED, NICHIA 219B 4000K	WALL	Lithonia Lighting, DSXW2 LED 20C 700 40K T2M 120 PE DBLXD	47	120V 1P 2W		
X	D	(2) TWO 1.5-WATT LED ASSEMBLY, ELP L275	WALL	Lithonia Lighting, LHQM LED	3	120V 1P 2W		



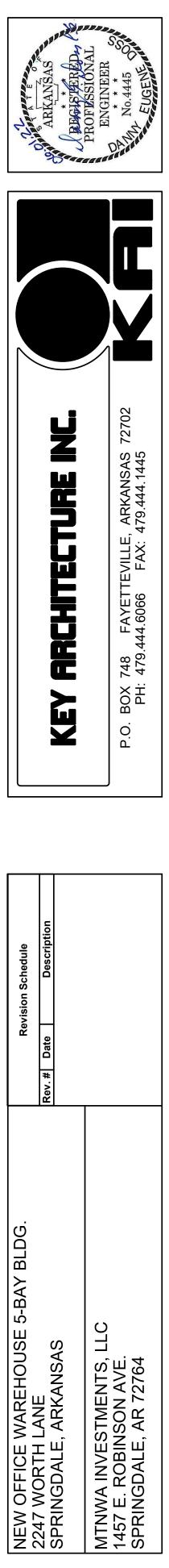


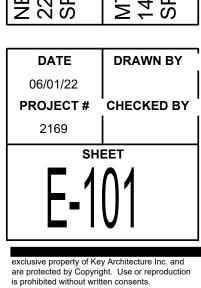


Revision Schedule	Description	
	Date	
	Rev.#	1
NEW OFFICE WAREHOUSE 5-BAY BLDG.	NGDALE, AI	MTNWA INVESTMENTS, LLC 1457 E. ROBINSON AVE. SPRINGDALE, AR 72764
	<b>ATE</b> 01/22	DRAWN BY
	<b>JECT #</b> 169	CHECKED BY
	s C	



(1)	POWER PLAN	
$\bigcirc$	SCALE: 1/8" = 1'-0"	Z







ADVANCED CONSULTING ENGINEERS, INC.

No. 27 PKANSA

PRIOR TO BID/START OF CONSTRUCTION REQUIREMENTS THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND IN

DIAGRAMMATIC IN NATURE AND IN SOME CASES, BASED ON INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT

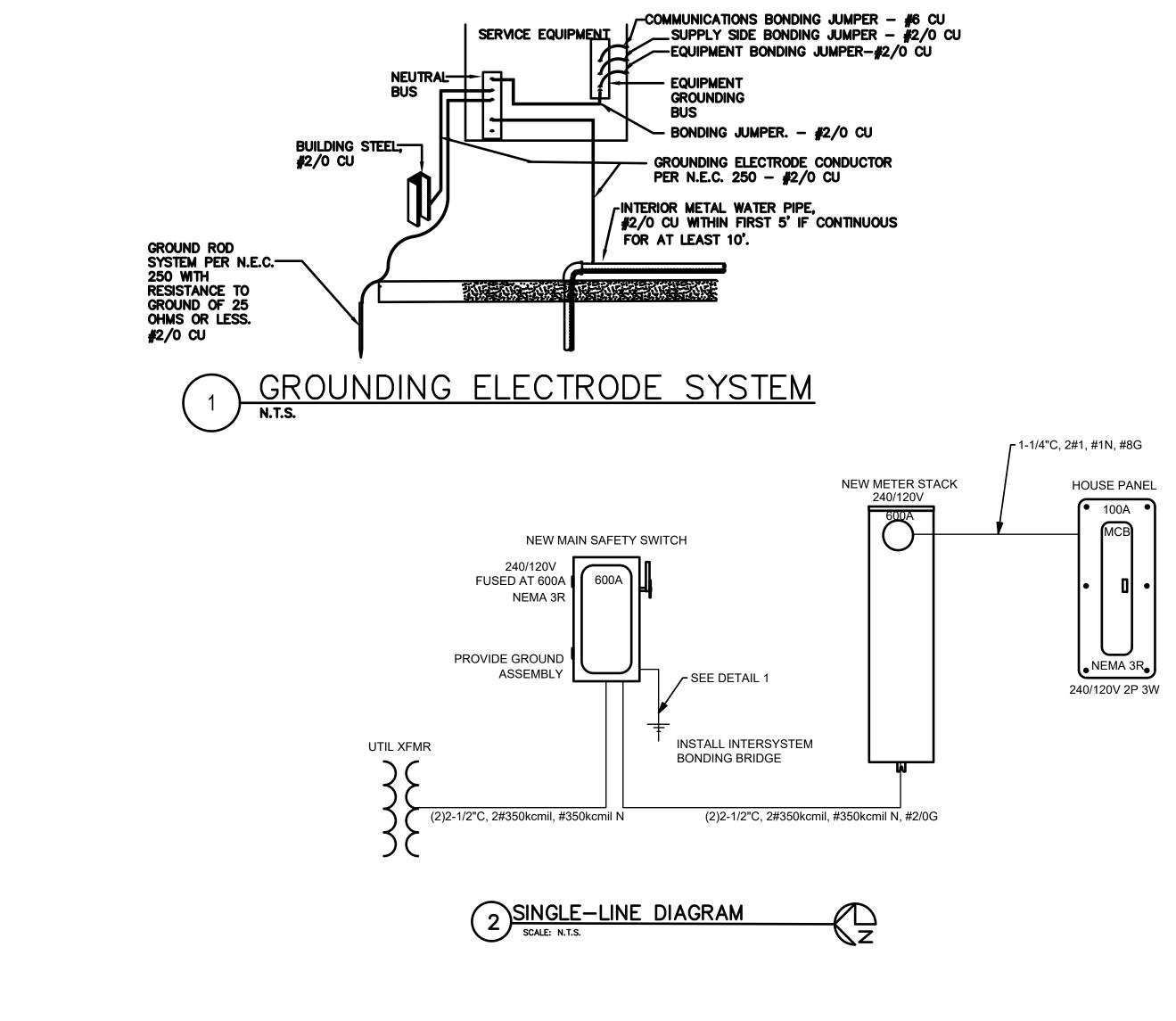
THE ATTENTION OF THE ARCHITECT ANY COST SAVINGS OPTIONS OR REUSE OF EXISTING EQUIPMENT, MATERIAL OR DEVICES SHALL BE

MATERIAL OR DEVICES SHALL BE MADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW. ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OR FAILURE TO VISIT THE SITE PRIOR TO DE SUM UNDER EN AUTION/25D

TO BID, SHALL NOT BE AUTHORIZED

OR COMPENSATED. COORDINATE





LIGHTING

RECEPTACLES

SECTION 408.4 (A) & (B)
PANELS TO BE IDENTIFIED FOR ARC FLASH HAZARD PER NEC SECTION 110.16.

LIGHTING TO BE PER NEC 410.

PANELS AND THEIR CIRCUITS TO BE IDENTIFIED PER NEC

BRANCH CIRCUITS TO BE IDENTIFIED PER NEC 210.5.

FMC TO BE PER NEC 348. RECEPTACLES, CORD CONNECTORS & ATTACHMENT PLUGS TO BE PER NEC 406.

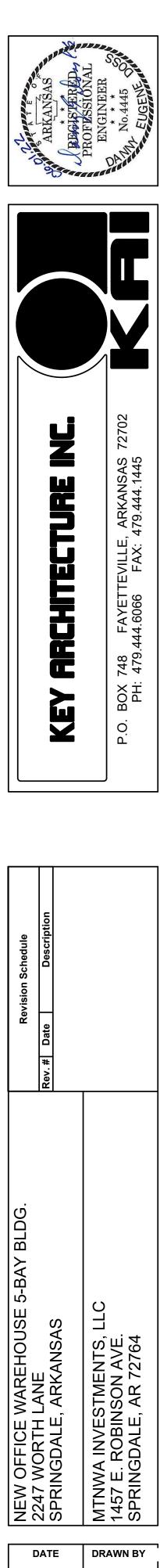
SWITCHBOARDS, SWITCH GEAR & PANEL BOARDS TO BE PER NEC 408.

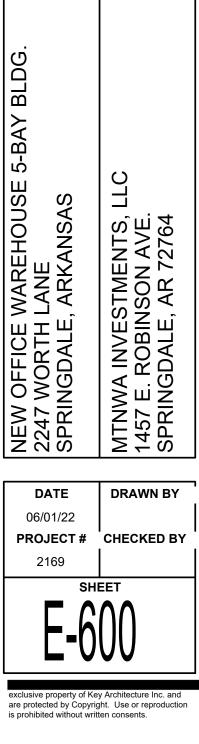
HOUSE ROOM MOUNTING SURFACE FED FROM **METER STACK** NOTE **NEMA 3R** CKT BREAKER TRIP/POLES CIRCUIT DESCRIPTION # 20/1 EXTERIOR LIGHTING 20/1 101 LIGHTING 20/1 102 LIGHTING 103 LIGHTING 20/1 20/1 104 LIGHTING 20/1 105 LIGHTING 11 20/1 SPARE 20/1 SPARE 15 20/1 SPARE 17 20/1 SPARE 19 20/1 SPARE 21 23 20/1 SPARE 25 20/1 SPARE 27 SPARE 20/1 20/1 29 SPARE EXTERIOR RECEPTACLE 20/1 20/1 SPARE 20/1 SPARE 20/1 SPARE 20/1 SPARE 10 20/1 SPARE 12 20/1 SPARE 14 20/1 SPARE 16 SPARE 20/1 18 20/1 SPARE 20 20/1 SPARE 22 24 20/1 SPARE SPARE 26 20/1 28 SPARE 20/1 20/1 30 SPARE

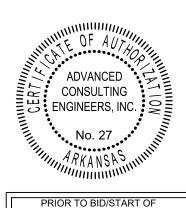
ACK	B	olts <b>240/</b> 1 US AMPS <b>1</b> Eutral <b>100</b>	00	9 3W		AIC <b>30,000</b> Main BKR <b>10</b> Lugs <b>stand</b>	
RCUIT DESCF				OAD KV	A C	FEEDER RACEWAY AND	CONDUCTORS
			A	В	C		
TERIOR LIGH	IIING		423	348		1/2"C,1#10,#10N,#10G	
2 LIGHTING			345	J <del>4</del> 0		1/2"C,1#10,#10N,#10G 1/2"C,1#10,#10N,#10G	
3 LIGHTING			040	348		1/2"C,1#10,#10N,#10G	
4 LIGHTING			348			1/2"C,1#10,#10N,#10G	
5 LIGHTING				348		1/2"C,1#10,#10N,#10G	
ARE			0				
PARE				0			
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PARE PARE			0	0			
PARE			U	о			
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		+ +				<u> </u>   1 /0 <sup>2</sup> 0 1 //10 //10N //100	
TERIOR REC	EPTACLE		0	180		1/2"C,1#12,#12N,#12G	
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	NECTED KVA	BY PHASE	1,300	1,040	0		
CONN VA			.,	.,	•		CALC VA
				тот			
2,160 180	2,700 180	(125%) (50%>10)			AL LOAD ANCED L		2,880 12 A
100	100	(00 /0~ 10)		DALA			
SIDE BONDIN	g Jumper — g Jumper — Jumper—#2/(	#2/0 CU					CONTRACTOR SHALL VISIT THE SIT AND PERFORM A COMPLETE FIELD SURVEY PRIOR TO BID AND/OR CONSTRUCTION
	•						
IT IG						REQUIREMENTS AN REPRESENTATIVE	WORK WITH SERVING UTILITY COMPANY ND MAKE CONTACT WITH LOCAL PRIOR TO BID AND/OR CONSTRUCTION. TIFY THIS ENGINEER IN WRITING OF AN

PRIOR TO BID, NOTIFY THIS ENGINEER, IN WRITING, OF ANY

CHANGES REQUIRED.







CONSTRUCTION REQUIREMENTS THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND IN SOME CASES, BASED ON INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITEC ANY COST SAVINGS OPTIONS OR REUSE OF EXISTING EQUIPMENT, MATERIAL OR DEVICES SHALL BE MADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW. ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OF FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED OR COMPENSATED. COORDINATE PO BOX 427 ALL LOUVER SIZES AND LOCATIONS PRIOR TO START OF

EQUIPMENT IN MECHANICAL ROOM



ROGERS, AR 72756 CONSTRUCTION. LAYOUT ALL PH 479.631.1712 || TO ENSURE PROPER SPACE AND FX 479.631.1854 DVENGINEERS.COM 16010

	BASIC ELECTRICAL REQUIREMENTS		
PART 1	GENERAL	PART 1	GENERAL
1.01	SECTION INCLUDES	1.01	SECTION INCLUDES
A.	BASIC ELECTRICAL REQUIREMENTS SPECIFICALLY APPLICABLE TO DIVISION 16, IN ADDITION TO DIVISION 1 – GENERAL	A. B.	BUILDING WIRE AND CABLE. WIRING CONNECTORS AND CONNECTIONS.
1.02	REQUIREMENTS. SUBMITTALS	1.02	PROJECT CONDITIONS
	SUBMIT UNDER PROVISIONS OF ARCHITECTURAL SPECIFICATIONS.		VERIFY THAT FIELD MEASUREMENTS ARE CONDUCTOR SIZES ARE BASED ON COPF
	SUBMIT THE FOLLOWING PRODUCTS: 1. WIRING DEVICES AND COVER PLATES.		PRODUCTS
	<ol> <li>DISCONNECT SWITCHES.</li> <li>PANELBOARDS.</li> </ol>	2.01	MANUFACTURERS
	4. LIGHT FIXTURES. INDICATE MANUFACTURER'S NAME AND COMPLETE CATALOG NUMBER	A.	GENERAL ELECTRIC, ROME, HATFIELD, CR
U.	WITH THE LABEL OR NUMBER OF THE EQUIPMENT, AS DESIGNATED ON DRAWINGS, ADJACENT THERETO.	2.02	TRIANGLE, ANACONDA. WIRE AND CABLE
D.	SUBSTITUTIONS: WHERE A SPECIFIC MANUFACTURER OR TRADE NAME IS MENTIONED IN THE SPECIFICATION, IT IS TO ESTABLISH A		DESCRIPTION: SINGLE CONDUCTOR INSU
	STANDARD OF QUALITY. SUBSTITUTIONS FOR SPECIFIED EQUIPMENT ARE ALLOWED ONLY WHEN SUBSTITUTIONS OR APPROVED EQUALS ARE	В.	CONDUCTOR: COPPER. INSULATION VOLTAGE RATING: 600 VOLT
	NOTED. SUBSTITUTION OF OTHER MAKES SHALL BE APPROVED BY THE ARCHITECT\ENGINEER AND/OR OWNER, 10 DAYS PRIOR TO BIDS.	D.	INSULATION: ANSI/WFPA 70: TYPE THW INSULATION FOR FEEDERS AND BRANCH
1.03	REGULATORY REQUIREMENTS		8 AWG. TYPE THHN/THWN INSULATION CIRCUITS 8 AWG AND SMALLER. THW O CONDUIT SIZE IS INCREASED FOR FEEDE
A.	CONFORM TO APPLICABLE BUILDING CODES.		8 AWG AND SMALLER.
1.04	PROJECT\SITE CONDITIONS	PART 3	EXECUTION
A.	VISIT THE SITE, EXAMINE AND VERIFY THE CONDITIONS UNDER WHICH WORK MUST BE CONDUCTED BEFORE SUBMITTING A PROPOSAL.	3.01	WIRING METHODS
	THE SUBMITTING OF A PROPOSAL IMPLIES THAT THE CONTRACTOR HAS VISITED THE SITE, IS CONVERSANT WITH ALL SITE CONDITIONS, INCLUDING EXISTING SERVICES AND EQUIPMENT,		USE ONLY BUILDING WIRE IN RACEWAYS USE WIRING METHODS INDICATED ON DRA
	OBSTRUCTION AND ALL CONDITIONS, WHICH WILL BE ENCOUNTERED IN THE REMOVAL AND/OR RELOCATION OF PRESENT MATERIALS AND	3.02	ALL CONDUCTORS IN PLENUM AREA SHAI
	EQUIPMENT, INSTALLATION OF NEW MATERIALS, ETC., FOR A COMPLETE INSTALLATION.		USE SOLID CONDUCTOR FOR FEEDERS A
B.	THE DRAWINGS SHOW THE LOCATION AND GENERAL ARRANGEMENT OF ALL EQUIPMENT AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL	В.	AND SMALLER, STRANDED CONDUCTOR 8 USE STRANDED CONDUCTORS FOR CONTR
	BUILDING CONSTRUCTION AND WORK OF OTHER TRADES PERMIT. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING WORK AND ARRANGE WORK ACCORDINGLY.	C.	USE CONDUCTOR NOT SMALLER THAN 12 LIGHTING CIRCUITS.
PART 2		D. E.	USE CONDUCTOR NOT SMALLER THAN 14 USE SOLDERLESS PRESSURE CONNECTOR FOR COPPER CONDUCTOR SPLICES AND
2.01	MATERIALS AND EQUIPMENT	F.	USE INSULATED SPRING WIRE CONNECTOR COPPER CONDUCTOR SPLICES AND TAPE.
A.	MATERIALS AND EQUIPMENT: ACCEPTABLE TO THE AUTHORITY		END OF SE
B.	HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED. ALL EQUIPMENT OF SAME OR SIMILAR SYSTEMS SHALL BE OF THE SAME MANUFACTURED		
C.	SAME MANUFACTURER. ALL ELECTRICAL EQUIPMENT SHALL BE NEW UNLESS OTHERWISE STATED IN DRAWINGS.		
PART 3	EXECUTION	PART 1	GENERAL
3.01	WORKMANSHIP	1.01	SECTION INCLUDES
A.	INSTALL WORK USING PROCEDURES DEFINED IN NECA STANDARD OF	A. B.	WALL AND CEILING OUTLET BOXES. PULL AND JUNCTION BOXES.
	INSTALLATION.	1.02	PROJECT CONDITIONS
	END OF SECTION	A. B.	VERIFY FIELD MEASUREMENTS ARE AS SH ELECTRICAL BOXES ARE SHOWN ON DRA
			LOCATIONS UNLESS DIMENSIONED. INST FOR BOX TO SERVE INTENDED PURPOSE
		PART 2	PRODUCTS
		2.01	OUTLET BOXES
	16111	А.	SHEET METAL OUTLET BOXES: ANSI/NEM
	CONDUIT		1. LUMINAIRE AND EQUIPMENT SUPPOR WEIGHT OF EQUIPMENT SUPPORTED,
PART 1	GENERAL	B.	FIXTURE STUDS WHERE REQUIRED. NONMETALLIC OUTLET BOXES: ANSI/NEM
1.01	WORK INCLUDED	C.	CAST BOXES: NEMA FB 1, TYPE FD CA GASKETED COVER BY BOX MANUFACTURE
A. B.		2.02	PULL AND JUNCTION BOXES
C. D.	ELECTRICAL METALLIC TUBING AND FITTINGS. FLEXIBLE METAL CONDUIT AND FITTINGS.	А.	SHEET METAL BOXES: NEMA OS 1, GAL
E.			EXECUTION
2.01	PRODUCTS MANUFACTURERS – CONDUIT	3.01	INSTALLATION
	STEELDUCT, PITTSBURGH, NATIONAL, REPUBLIC, TRIANGLE,	А.	INSTALL ELECTRICAL BOXES AS SHOWN ( REQUIRED FOR SPLICES, TAPS, WIRE PU CONNECTIONS AND COMPLIANCE WITH RE
	ANACONDA.	В.	INSTALL PULL BOXES AND JUNCTION BO CEILINGS AND IN UNFINISHED AREAS ON
2.02	CONDUIT SUPPORTS	C.	OTHERWISE. INSTALL BOXES TO PRESERVE FIRE RESI
А.	CONDUIT CLAMPS, STRAPS, AND SUPPORTS: STEEL OR MALLEABLE IRON.	D.	PARTITIONS AND OTHER ELEMENTS. ALIGN ADJACENT WALL-MOUNTED OUTLET THERMOSTATS AND SIMILAR DEVICES WIT
PART 3	EXECUTION	E.	THERMOSTATS, AND SIMILAR DEVICES WIT USE CAST FLOOR BOXES FOR INSTALLAT FORMED STEEL BOXES ARE ACCEPTABLE
3.01	CONDUIT SIZING, ARRANGEMENT, AND SUPPORT	3.03	INTERFACE WITH OTHER PRODUCTS
A.	IF NOT INDICATED ON DRAWINGS, SIZE CONDUIT FOR CONDUCTOR TYPE INSTALLED: 1/2 INCH MINIMUM SIZE.	А.	LOCATE FLUSH MOUNTING BOX IN MASON
В.	CONCEAL ALL WORK IN WALLS AND ABOVE CEILINGS IN FINISHED ROOMS. NO CONDUIT SHALL BE INSTALLED ON OR ABOVE ROOF. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILINGS		CUTTING OF MASONRY UNIT CORNER ONI CUTTING TO ACHIEVE NEAT OPENING.
	PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING.	В.	COORDINATE MOUNTING HEIGHTS AND LO MOUNTED ABOVE COUNTERS, BENCHES A
3.02	CONDUIT INSTALLATION		END OF
A.	USE CONDUIT HUBS OR SEALING LOCKNUTS FOR FASTENING CONDUIT TO CAST BOXES, AND FOR FASTENING CONDUIT TO SHEET METAL		
В.	BOXES IN DAMP OR WET LOCATIONS. USE SUILE CONDUIT CAPS TO PROTECT INSTALLED CONDUIT ACAINIST ENTRANCE OF DIRT AND MOISTURE		
C.	AGAINST ENTRANCE OF DIRT AND MOISTURE. INSTALL EXPANSION JOINTS WHERE CONDUIT CROSSES BUILDING EXPANSION JOINTS.	PART 1	GENERAL
D.	WHERE CONDUIT PENETRATES FIRE-RATED WALLS AND FLOORS, PROVIDE MECHANICAL FIRE-STOP FITTINGS WITH UL LISTED FIRE	1.01	SECTION INCLUDES
E.	RATING EQUAL TO WALL OR FLOOR RATING. ROUTE CONDUIT THROUGH ROOF OPENINGS FOR PIPING AND DUCTWORK		WALL SWITCHES.
	WHERE POSSIBLE; OTHERWISE, ROUTE THROUGH ROOF JACK WITH PITCH POCKET.	B. C.	RECEPTACLES. DEVICES PLATES AND COVERS.
3.03	CONDUIT INSTALLATION SCHEDULE	PART 2	PRODUCTS
A.	INSTALLATIONS IN SLAB OR UNDER CONCRETE SLAB ON GRADE: RIGID GALVANIZED CONDUIT, INTERMEDIATE METAL CONDUIT.	2.01	WALL SWITCHES
В.	IN SLAB ABOVE GRADE: RIGID GALVANIZED CONDUIT, ELECTRICAL METALLIC TUBING, INTERMEDIATE METAL CONDUIT.	А.	MANUFACTURERS: ARROW HART, GENERA PASS & SEYMOUR, SLATER.
	CONCEALED DRY INTERIOR LOCATIONS: RIGID GALVANIZED CONDUIT, INTERMEDIATE METAL CONDUIT, OR ELECTRICAL METALLIC TUBING.	B. C.	DEVICE BODY: PLASTIC BODY WITH IVOF VOLTAGE RATING: 120–277 VOLTS, AC.
D.	EXPOSED DRY INTERIOR LOCATIONS: RIGID GALVANIZED CONDUIT, INTERMEDIATE METAL CONDUIT, OR ELECTRICAL METALLIC TUBING.	D. E.	CURRENT RATING: 20 AMPERES. DESCRIPTION: NEMA WD 1, SPECIFICATIO SWITCH AS FOLLOWS:
	END OF SECTION		<ol> <li>SWITCH AS FOLLOWS:</li> <li>SINGLE POLE: ARROW HART 1221.</li> <li>DOUBLE POLE: ARROW HART 1222.</li> </ol>
			3. THREE WAY: ARROW HART 1223.

INECTIONS.

IENTS ARE AS SHOWN ON DRAWINGS. ON COPPER.

ATFIELD, CRESENT, GENERAL CABLE,

ICTOR INSULATED WIRE.

600 VOLTS. TYPE THW, THHN/THWN OR XHHW BRANCH CIRCUITS LARGER THAN ISULATION FOR FEEDERS AND BRANCH THW OR XHHW MAY BE USED IF FOR FEEDERS AND BRANCH CIRCUITS

RACEWAYS IN ALL LOCATIONS. ED ON DRAWINGS. AREA SHALL BE PLENUM RATED.

FEEDERS AND BRANCH CIRCUITS 10 AWG DUCTOR 8 AWG AND LARGER. FOR CONTROL CIRCUITS. R THAN 12 AWG FOR POWER AND

R THAN 14 AWG FOR CONTROL CIRCUITS. CONNECTORS WITH INSULATING COVERS LICES AND TAPE, 6 AWG AND LARGER. CONNECTORS WITH PLASTIC CAPS FOR AND TAPE, 8 AWG AND SMALLER.

END OF SECTION

16130 BOXES

ARE AS SHOWN ON DRAWINGS. IN ON DRAWINGS IN APPROXIMATE

IED. INSTALL AT LOCATION REQUIRED PURPOSE.

ANSI/NEMA OS 1. GALVANIZED

NT SUPPORTING BOXES: RATED FOR JPPORTED, INCLUDE  $1 \ge 1 \le 1$ EQUIRED.

ANSI/NEMA OS 2. YPE FD CAST FERALLOY. PROVIDE NUFACTURER. PROVIDE THREADED HUBS.

OS 1, GALVANIZED STEEL.

SHOWN ON DRAWINGS. AND AS WIRE PULLING, EQUIPMENT E WITH REGULATORY REQUIREMENTS.

NCTION BOXES ABOVE ACCESSIBLE AREAS ONLY, UNLESS NOTED FIRE RESISTANCE RATING OF

FNTS FED OUTLET BOXES FOR SWITCHES, EVICES WITH EACH OTHER. INSTALLATIONS IN SLAB ON GRADE; CCEPTABLE FOR OTHER INSTALLATIONS.

IN MASONRY WALL TO REQUIRE ORNER ONLY. COORDINATE MASONRY

TS AND LOCATIONS OF OUTLETS BENCHES AND BACKSPLASHES.

END OF SECTION

16141 WIRING DEVICES

RT, GENERAL ELECTRIC, HUBBELL, LEVITON,

WITH IVORY NYLON TOGGLE HANDLE. VOLTS, AC.

PECIFICATION GRADE, AC TOGGLE

(CON'T.)

2.02 RECEPTACLES

(CON'T.)

3.02 NAMEPLATE ENGRAVING SCHEDULE

Α.

B.

BELOW.

PROVIDE NAMEPLATES OF MINIMUM LETTER HEIGHT AS SCHEDULED

A. MANUFACTURERS: ARROW HART, GENERAL ELECTRIC, HUBBELL, LEVITON, PASS & SEYMOUR, SLATER. B. DEVICE BODY: PLASTIC BODY WITH IVORY NYLON FACE.

- CONVENIENCE AND STRAIGHT-BLADE RECEPTACLES: NEMA WD 1. SPECIFICATION GRADE, GROUNDING TYPE; LOCKING-BLADE RECEPTACLES: NEMA WD 5, SPECIFICATION GRADE, GROUNDING TYPE; AS FOLLOWS:
- 1. DUPLEX RECEPTACLE 20 A, 125 V: HUBBELL 5362, ARROW HART 5362, P & S 5362, SLATER 5362-AG, LEVITON 5362, OR G.E. 5362-1.
- 2. COMPUTER DUPLEX RECEPTACLE 20A, 125V ISOLATED GROUND: HUBBELL IG 5362, ARROW HART I-5362, P & S IG6300, SLATER IG5362-AG-OR, LEVITON 5362-IG, OR G.E. 5362-IG2.

2.03 WALL PLATES

- A. HIGH IMPACT NYLON, IVORY COLOR, SAME AS DEVICE MANUFACTURER, TO MATCH DEVICE.
- PART 3 EXECUTION
- 3.01 EXAMINATION
- A. VERIFY OUTLET BOXES ARE INSTALLED AT PROPER HEIGHT. B. VERIFY WALL OPENINGS ARE NEATLY CUT AND WILL BE COMPLETELY COVERED BY WALL PLATES.
- 3.02 PREPARATION
- A. PROVIDE EXTENSION RINGS TO BRING OUTLET BOXES FLUSH WITH FINISHED SURFACE, IF REQUIRED.
- 3.03 INSTALLATION
  - A. CONNECT WIRING DEVICE GROUNDING TERMINAL TO BRANCH
  - CIRCUIT EQUIPMENT GROUNDING CONDUCTOR. B. CONNECT WIRING DEVICES BY WRAPPING CONDUCTOR AROUND
  - SCREW TERMINAL C. USE JUMBO SIZE PLATES FOR OUTLETS INSTALLED IN MASONRY
  - WALLS. D. INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS ABOVE ACCESSIBLE CEILINGS AND ON SURFACE MOUNTED OUTLETS IN STOCKROOM AREAS.

END OF SECTION

16190 SUPPORTING DEVICES

- PART 1 GENERAL
- 1.01 WORK INCLUDED
- A. CONDUIT AND EQUIPMENT SUPPORTS.
- B. FASTENING HARDWARE. 1.02 QUALITY ASSURANCE
- A. SUPPORT SYSTEMS SHALL BE ADEQUATE FOR WEIGHT OF EQUIPMENT
- AND CONDUIT, INCLUDING WIRING, WHICH THEY CARRY.
- PART 2 PRODUCTS
- 2.01 MATERIAL
- A. SUPPORT CHANNEL: GALVANIZED OR PAINTED STEEL. B. HARDWARE: CORROSION RESISTANT.
- PART 3 EXECUTION 3.01 INSTALLATION
  - A. FASTEN HANGER RODS, CONDUIT CLAMPS, AND OUTLET AND JUNCTION BOXES TO BUILDING STRUCTURE.
  - B. USE TOGGLE BOLTS OR HOLLOW WALL FASTENERS IN HOLLOW MASONRY, PLASTER, OR GYPSUM BOARD PARTITIONS AND WALLS;
  - EXPANSION ANCHORS OR PRESET INSERTS IN SOLID MASONRY WALLS: SELF-DRILLING ANCHORS OR EXPANSION ANCHOR ON CONCRETE SURFACES; SHEET METAL SCREWS IN SHEET METAL STUDS; AND WOOD SCREWS IN WOOD CONSTRUCTION.
  - C. DO NOT FASTEN SUPPORTS TO METAL DECK, PIPING, DUCTWORK,
  - MECHANICAL EQUIPMENT, OR CONDUIT. DO NOT USE POWDER-ACTUATED ANCHORS.
  - DO NOT WELD TO OR DRILL BUILDING STRUCTURAL STEEL MEMBERS.
  - FABRICATE SUPPORTS FROM STRUCTURAL STEEL OR STEEL CHANNEL, RIGIDLY WELDED OR BOLTED TO PRESENT A NEAT APPEARANCE. USE
  - HEXAGON HEAD BOLTS WITH SPRING LOCK WASHERS UNDER ALL NUTS. G. INSTALL SURFACE-MOUNTED CABINETS AND PANELBOARDS WITH
  - MINIMUM OF FOUR ANCHORS. H. BRIDGE STUDS TOP AND BOTTOM WITH CHANNELS TO SUPPORT FLUSH-MOUNTED CABINETS AND PANELBOARDS IN STUD WALLS.

END OF SECTION

16195 ELECTRICAL IDENTIFICATION

PART 1 GENERAL

- 1.01 WORK INCLUDED
  - A. NAMEPLATES AND TAPE LABELS.
  - B. WIRE AND CABLE MARKERS.
- PART 2 PRODUCTS
- 2.01 MATERIALS
  - A. NAMEPLATES: ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON A BLACK BACKGROUND.
  - B. TAPE LABELS: EMBOSSED ADHESIVE TAPE, WITH 3/16 INCH WHITE LETTERS ON A BLACK BACKGROUND. C. WIRE AND CABLE MARKERS: CLOTH MARKERS, SPLIT SLEEVE OR TUBING TYPE.
- PART 3 EXECUTION
- 3.01 INSTALLATION
  - A. USE EMBOSSED TAPE ONLY FOR IDENTIFICATION OF INDIVIDUAL WALL SWITCHES. RECEPTACLES AND CONTROL DEVICE STATIONS WHERE NOTED ON DRAWINGS.

PANELBOARDS: 3/4 INCH, IDENTIFY EQUIPMENT DESIGNATION. 3/4 INCH, IDENTIFY VOLTAGE RATING AND SOURCE. INDIVIDUAL CIRCUIT BREAKERS, SWITCHES, AND MOTOR STARTERS IN PANELBOARDS, SWITCHBOARDS, AND MOTOR CONTROL CENTERS: 1/8 INCH, IDENTIFY CIRCUIT AND LOAD SERVED, INCLUDING LOCATION. INDIVIDUAL CIRCUIT BREAKERS, ENCLOSED SWITCHES AND MOTOR STARTERS: 1/4 INCH, IDENTIFY LOAD SERVED. END OF SECTION 16470 PANELBOARDS PART 1 GENERAL 1.01 WORK INCLUDED A. LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARDS. 1.02 SPARE PARTS A. KEYS: FURNISH TWO EACH TO OWNER. PART 2 PRODUCTS ACCEPTABLE MANUFACTURERS – PANELBOARDS 2.01 A. SQUARE D, GENERAL ELECTRIC, ITE/SIEMENS-ALLIS, WESTINGHOUSE, CUTLER HAMMER. 45 45 2.02 PANELBOARDS ARKAN 79.444. LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARDS: CIRCUIT BREAKER TYPE AS INDICATED ON THE PANELBOARD SCHEDULES ON DRAWINGS. PROVIDE CABINET FRONT WITH CONCEALED TRIM CLAMPS, CONCEALED HINGE AND FLUSH LOCK ALL KEYED ALIKE. FINISH IN MANUFACTURER'S STANDARD GRAY ENAMEL. FAX: FAX: B. ENCLOSURE: TYPE 1. MINIMUM SHORT CIRCUIT RATING: AS SHOWN ON DRAWINGS. μ PROVIDE PANELBOARDS WITH COPPER BUS RATINGS AS SCHEDULED ON DRAWINGS. PROVIDE GROUND BUS IN ALL PANELBOARDS. MOLDED CASE CIRCUIT BREAKERS: BOLT-ON TYPE THERMAL MAGNETIC AYET .6066 TRIP CIRCUIT BREAKERS, WITH COMMON TRIP HANDLE FOR ALL POLES. PROVIDE CIRCUIT BREAKERS UL LISTED AS TYPE SWD FOR LIGHTING CIRCUITS. PROVIDE UL CLASS A GROUND FAULT INTERRUPTER CIRCUIT Щ <del>4</del> BREAKERS WHERE SCHEDULED ON DRAWINGS. 748 479 PART 3 EXECUTION 3.01 INSTALLATION ХЧ A. HEIGHT: 6 FEET TO TOP SWITCH OR CIRCUIT BREAKER IN ш PANELBOARDS, UNLESS OTHERWISE NOTED. PROVIDE TYPED CIRCUIT DIRECTORY FOR EACH BRANCH CIRCUIT PANELBOARD. REVISE DIRECTORY TO REFLECT CIRCUITING CHANGES REQUIRED TO BALANCE PHASE LOADS. END OF SECTION 16510 INTERIOR LUMINARIES PART 1 GENERAL 1.01 SECTION INCLUDES A. INTERIOR LUMINARIES AND ACCESSORIES. B. EMERGENCY LIGHTING UNITS. EXIT SIGNS. BALLASTS. LAMPS. F. LUMINAIRE ACCESSORIES. PART 2 PRODUCTS 2.01 LUMINARIES A. THE LIGHTING FIXTURES ARE SHOWN ON THE DRAWINGS WITH A LETTER OR LETTER/NUMBER KEY. THE LETTER OR LETTER/NUMBER OF THE KEY INDICATES THE TYPE OF THE FIXTURE. B. FIXTURE MANUFACTURERS: AS SCHEDULED IN LIGHT FIXTURE SCHEDULE ON DRAWINGS. 2.02 BALLAST A. MANUFACTURERS: ADVANCE, UNIVERSAL, GENERAL ELECTRIC, JEFFERSON. DESCRIPTION: ANSI C82.1, HIGH POWER FACTOR TYPE BALLAST. PROVIDE BALLAST SUITABLE FOR LAMPS SPECIFIED. 4. SOURCE QUALITY CONTROL: CERTIFY BALLAST DESIGN AND CONSTRUCTION BY CERTIFIED BALLAST MANUFACTURERS, INC. 3.03 LAMPS A. MANUFACTURERS: SYLVANIA, GENERAL ELECTRIC, NORTH AMERICAN PHILLIPS/WESTINGHOUSE. 2. FLUORESCENT LAMPS SHALL BE OF TYPE SPECIFIED ON LIGHT FIXTURE SCHEDULE AND PLANS. PART 3 EXECUTION ADVANCED ш <u></u> CONSULTING 3.01 EXAMINATION ENGINEERS, INC. ŃЩ4 IWA INVESTMENTS 7 E. ROBINSON AVI INGDALE, AR 7276 A. EXAMINE EACH LUMINAIRE TO DETERMINE SUITABILITY FOR LAMPS No. 27 SPECIFIED. <sup>9</sup>RKANSA 3.02 INSTALLATION PRIOR TO BID/START OF A. EXPOSED GRID CEILINGS: FURNISH AND INSTALL AUXILIARY CONSTRUCTION REQUIREMENTS штЩ MEMBERS SPANNING CEILING TEES TO SUPPORT SURFACE MOUNTED THESE DOCUMENTS ARE LUMINARIES. DIAGRAMMATIC IN NATURE AND IN INSTALL RECESSED LUMINARIES TO PERMIT REMOVAL FROM BELOW. SOME CASES, BASED ON INSTALL RECESSED LUMINARIES USING ACCESSORIES AND INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR FIRESTOPPING MATERIALS TO MEET REGULATORY REQUIREMENTS FOR SHALL VERIFY EXISTING FIRE RATING. CONDITIONS IN THE FIELD PRIOR TO MTNV 1457 SPRI D. MAKE WIRING CONNECTIONS TO BRANCH CIRCUIT USING BUILDING BID. ANY DISCREPANCIES OR WIRE WITH INSULATION SUITABLE FOR TEMPERATURE CONDITIONS CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR Z N N WITHIN LUMINAIRE. TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO 3.03 ADJUSTING THE ATTENTION OF THE ARCHITEC ANY COST SAVINGS OPTIONS OR DRAWN BY DATE REUSE OF EXISTING EQUIPMENT, A. AIM AND ADJUST LUMINARIES AS INDICATED ON DRAWINGS OR AS MATERIAL OR DEVICES SHALL BE 06/01/22 DIRECTED. MADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW PROJECT # CHECKED BY ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OF 2169 END OF SECTION FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED SHEET OR COMPENSATED. COORDINATE PO BOX 427 ALL LOUVER SIZES AND LOCATIONS PRIOR TO START OF ROGERS, AR 72756 CONSTRUCTION. LAYOUT ALL EQUIPMENT IN MECHANICAL ROOM PH 479.631.1712 || TO ENSURE PROPER SPACE AND

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