

DESCRIPTION REV

ACADEMY BANK LEE'S SUMMIT TENANT IMPROVEMENTS 2070 NW LOWENSTEIN DR SUITE A LEE'S SUMMIT, MO 64081

DATE

TENANT: **DICKINSON FINANCIAL CORPORATION 1201 WALNUT STREET** KANSAS CITY, MISSOURI 64108 816.472.5244

ARCHITECT: GENERATOR STUDIO 1615 BALTIMORE AVE KANSAS CITY, MO 64108 816.333.6527 GENERATORSTUDIO.COM

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CONTRACTOR SOUTHWIND GROUP 1218 ENERGY DRIVE ABILENE, TX 79602 325.695.1111 SOUTHWINDGRP.COM

07.03.2024

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	1.	THE AMERICAN INSTITUTE OF ARCHITECTS STANDARD FORM (AIA DOCUMENT A201, 2007 EDITION): "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", IS HEREBY MADE A PART OF THESE CONTRACT DOCUMENTS, UNLESS NOTED OTHERWISE IN THE AGREEMENT BETWEEN OWNER AND CONTRACTOR.
	2.	ALL WORK SHALL CONFORM WITH THE APPLICABLE BUILDING CODES, REGULATIONS, OCCUPANCY PERMITS AND ORDINANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND APPROVALS BY LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT. IN THE EVENT OF A CONFLICT BETWEEN THE CONSTRUCTION DOCUMENTS AND AN APPLICABLE CODE, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT FOR DIRECTION AND RESOLUTION. FAILURE TO NOTIFY EITHER OF THESE PARTIES PRIOR TO COMMENCEMENT OF THE WORK, SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR ANY CORRECTIVE MEASURES NEEDED TO BRING THE PROBLEM INTO PROPER CONFORMANCE, WITHOUT ADDITIONAL COSTS OR CHARGES TO THE OWNER. PROVIDE COPIES OF ALL TRANSACTIONS TO OWNER.
D	3.	THE GENERAL CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH ALL PERTINENT OPERATING, MAINTENANCE, AND WARRANTY INFORMATION AT THE COMPLETION OF THE PROJECT, BOUND INTO 8-1/2" X 11" THREE-RING NOTEBOOKS, AND PROPERLY IDENTIFIED (4 COPIES REQUIRED).
	4.	THE GENERAL CONTRACTOR SHALL SUBMIT ALL APPLICATIONS FOR PAYMENT TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE FORM OF THE APPLICATION FOR PAYMENT SHALL BE AIA DOCUMENT G702, SUPPORTED BY AIA DOCUMENT G702A, CONTINUATION SHEET. A 10% RETAINAGE OF EACH APPLICATION FOR PAYMENT SHALL BE WITHHELD BY THE OWNER UNTIL RELEASE OF FINAL PAYMENT, UNLESS NOTED OTHERWISE IN THE AGREEMENT BETWEEN THE OWNER AND CONTRACTOR
	5.	CONTRACT CLOSE-OUT SHALL OCCUR ONLY AFTER THE ARCHITECT HAS PREPARED THE CERTIFICATE OF SUBSTANTIAL COMPLETION AND PUNCH LIST AND THE PUNCH LIST ITEMS HAVE BEEN CORRECTED. THE GENERAL CONTRACTOR SHALL SUBMIT TO THE ARCHITECT MAINTENANCE AND WARRANTY MANUALS, RELEASE OF LIENS, AND "PROJECT RECORD" DRAWINGS WITH HIS FINAL APPLICATION FOR PAYMENT. THE ARCHITECT SHALL PREPARE ANY NECESSARY CHANGE ORDERS REQUIRED TO FINALIZE THE COST OF THE PROJECT BASED UPON THE GENERAL CONTRACTOR'S FINAL SUBMITTALS.
	6.	CONTRACTOR SHALL PROVIDE & MAINTAIN A REDLINED AS-BUILT CONSTRUCTION DOCUMENT SET AT THE SITE. THE OWNER OR THE ARCHITECT RESERVES THE RIGHT TO REVIEW THESE DOCUMENTS ON A WEEKLY BASIS.
	7.	PROVIDE THE ARCHITECT WITH A COMPLETE COPY OF AS BUILT DRAWINGS AT THE COMPLETION OF THE PROJECT.
	8.	GENERAL CONTRACTOR SHALL FURNISH A COMPLETE LIST OF CHEMICALS TO BE USED IN THE PROJECT ALONG WITH THE MATERIAL DATA SAFETY SHEET ON EACH PRODUCT TO THE ARCHITECT. A COPY SHALL BE KEPT ON SITE FOR REFERENCE.
	9.	PRIOR TO LEAVING THE SITE DAILY, THE CONTRACTOR IS TO LEAVE THE FACILITY SECURABLE.
	10.	CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION PERSONNEL AND AUTHORIZED VISITORS.
	11.	ALL WORK SHALL BE PERFORMED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED. ALL REFERENCES TO THE "CONTRACTOR" INCLUDE THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS.
	12.	SCOPE OF WORK OF ALL TRADES IS TO INCLUDE ALL MATERIALS AND LABOR AS REQUIRED TO TOTALLY COMPLETE THE PROJECT FROM INTERFACE WITH EXISTING CONSTRUCTION THROUGH CONFIGURATION AS INDICATED IN THE CONSTRUCTION DOCUMENTS. ALL WORK SHALL BE COMPLETE AND FUNCTIONAL, CONSISTENT WITH THE DESIGN INTENT AS EXPRESSED IN THESE DOCUMENTS, WHETHER SPECIFICALLY ADDRESSED IN THESE DOCUMENTS OR NOT. ANY QUESTIONS CONCERNING THE COMPLETENESS OF THE WORK SHALL BE ADDRESSED TO THE ARCHITECT.

THE GENERAL CONTRACTOR SHALL SEE THAT ALL SUBCONTRACTORS RECEIVE COMPLETE SETS OF 13 WORKING DRAWINGS COORDINATION OF THEIR WORK AND DESCRIPTION OF SCOPE. THE GENERAL CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR COORDINATION OF THE WORK WHEN COMPLETE SETS ARE NOT MADE AVAILABLE TO SUBCONTRACTORS.

14. DRAWINGS CONTAINED IN THIS SET SHALL NOT BE REPRODUCED FOR SHOP DRAWINGS. COPIES OF THESE DRAWINGS SUBMITTED AS SHOP DRAWINGS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR.

EQUIP EW EWC

EXIST EXP EXT

FBD

FBO

FDN

FEC

FFE

FHC FIN FVC FLUOR FLR FOC FOF FOS

FS

FRP

FRT

FS FSE

FT

FTG FURR

FV

GA

GC

GL

GWB

HB

HC

HCP HD

HDW HDWD HM

HORIZ

HR

HVAC

INSUL

INT

JAN

JST

KO

LAM

LAV LLH LLV LT(LTG)

M MAS MAX

HT

GALV

FR(FRM)

FF

FD

<u> </u>	4		3
15.	DESIGN-BUILD CONTRACTORS SHALL COORDINATE SYSTEMS LAYOUT WITH ARCHITECT AND OTHER DESIGN-BUILD CONTRACTORS. FINAL APPROVAL FOR AESTHETIC EFFECT SHALL BE BY THE ARCHITECT.	33.	WARRANT TO THE OWNER THAT ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW, UNLESS OTHERWISE FREE FROM FAULTS AND DEFECTS AND CONFORMS WITH THE CONTRACT DOCUMENTS.
16.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTS AND OMISSIONS OF THE CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND ANY OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.	34.	CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH THE CONDITIONS OF THE CONTRACT. LOCAL CONDITIONS RELATING TO LOCATION, ACCESSIBILITY AND GENERAL CHARACTER OF THE CONSTRUCTION SITE AND LOCAL LABOR CONDITIONS SO THAT HE UNDERSTANDS THE NATURE, EXTENT, DIFFICULTIES AND RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK.
17.	CONTRACTOR SHALL NOT MAKE, CAUSED TO BE MADE, OR PERMIT A SUBCONTRACTOR TO MAKE ANY CHANGE TO WHAT IS SPECIFIED ON THE PLAN WITHOUT SPECIFIC AUTHORIZATION OF THE ARCHITECT.	35.	INVESTIGATE JOB SITE TO COMPARE CONTRACT DOCUMENTS AND EXISTING CONDITIONS. INCLUDE COST FOR ALL WORK DESCRIBED IN CONTRACT DOCUMENTS AND REQUIRED OR IMPLIED BY EXISTING
18.	THE ARCHITECT IS NOT RESPONSIBLE FOR ERRORS, OMISSIONS OR DELAYS BY THE CONTRACTOR.		CONDITIONS. NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND NEW WORK, OMISSIONS OR CONFLICTS IN THE DRAWINGS AND ANY RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK.
19.	CONTRACTOR SHALL COORDINATE SCHEDULING, PROVISIONS FOR INSTALLATION, LOCATIONS AND THE ACTUAL INSTALLATION OF ITEMS FURNISHED BY TENANT/OWNER OR BY OTHERS.	36.	PROCURE MATERIALS SO AS NOT TO DELAY SUBSTANTIAL COMPLETION. NOTIFY ARCHITECT WITHIN 5 DAYS OF EXECUTION OF CONTRACT OF ANY MATERIAL DELIVERY WHICH WOULD DELAY COMPLETION
20.	OTHER CONTRACTORS AND THEIR SUBCONTRACTORS MAY BE WORKING ON THE PREMISES SIMULTANEOUS WITH THE DURATION OF THE CONTRACT. NO ACTION SHALL BE TAKEN ON THE PART		OF CONTRACT.
	OF THIS CONTRACTOR OR SUBCONTRACTOR TO IMPEDE THE ACCESS OR OPERATION OF ANY OTHER CONTRACTOR ON THE PREMISES, UNION, OR NON-UNION.	37.	EXAMINE ALL SURFACES TO DETERMINE THAT THEY ARE SOUND, DRY, CLEAN AND READY TO RECEIVE FINISHES OR MILLWORK PRIOR TO INSTALLATIONS. START OF INSTALLATION SHALL IMPLY ACCEPTANCE OF SUBSTRATE AND SHALL NOT BE GROUNDS FOR CLAIMS IMPROPER PERFORMANCE
21.	COOPERATE WITH ALL TRADES ON THE PROJECT NOT UNDER CONTRACT TO THE GENERAL CONTRACTOR (I.E. TELEPHONE, COMPUTER INSTALLERS, ETC.). ANY CHANGES OR DELAYS ARISING FROM CONFLICTS BETWEEN SUCH TRADES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.		OF INSTALLED MATERIALS. ADVISE ARCHITECT OF ANY EXISTING CONSTRUCTION NOT LEVEL, SMOOTH AND PLUMB WITHIN INDUSTRY STANDARDS PRIOR TO START OF CONSTRUCTION WHICH WILL BE DETRIMENTAL TO THE PROPER AND TIMELY EXECUTION OF THAT INSTALLERS WORK.
		38.	NO UNFINISHED GYPSUM BOARD WORK AND WOOD WORK ALLOWED, INCLUDING BEHIND FURNITURE
22.	DO NOT SCALE DRAWINGS, FOLLOW WRITTEN DIMENSIONS OR KEYED NOTES ONLY. CONTACT ARCHITECT IMMEDIATELY FOR CLARIFICATION IF REQUIRED. VERIFY DIMENSIONS IN THE FIELD. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS.		& ANY EQUIPMENT ITEMS. ALL GYPSUM BOARD PARTITIONS SHALL BE TAPED, SPACKLED, AND SANDED SMOOTH WITH NO VISIBLE JOINTS, PAINT AS SPECIFIED. PROVIDE GALVANIZED METAL CORNER BEADS AND SIMILAR CONCEALED TRIM AT ALL EXPOSED EDGES; USE EXPOSED TRIM ONLY AS APPROVED BY ARCHITECT.
23.	ALL WALL DIMENSIONS ARE AS FOLLOWS UNLESS NOTED OTHERWISE: a. FINISHED FACE OF PARTITION / WALL.	39.	OBTAIN THE OWNER'S WRITTEN AUTHORIZATION BEFORE ANY WORK IS PERFORMED OR MATERIAL
	b. CENTER LINE OF WALL EQUALS CENTER LINE OF MULLION. c. TO TOP OF FINISH SLAB AT FLOORS.		ORDERED WHICH INVOLVES EXTRA COST OVER AND ABOVE CONTRACT PRICE.
	d. TO BOTTOM OF FINISH AT CEILINGS.	40.	"THROUGH-PENETRATION FIRESTOP SYSTEMS" TO BE PROVIDED AT PENETRATIONS THROUGH RATED PARTITIONS AND FLOOR.
24.	"MINIMUM" OR "MIN." AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY LESS THAN THAT SHOWN WITHOUT THE APPROVAL OF ARCHITECT.	41.	MANUFACTURERS NAME, TRADEMARK, LOGOS, ETC. SHALL NOT BE VISIBLE TO THE PUBLIC.
05		42.	ALL SECURITY, AUDIO VISUAL, TELEPHONE, AND DATA CABLING SHALL BE PLENUM RATED.
25.	"±" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE DIMENSION OR QUANTITY IS SLIGHTLY ADJUSTABLE TO ACCOMMODATE ACTUAL CONDITIONS. VERIFY THE EXACT DIMENSION IN THE FIELD PRIOR TO FABRICATION.	43.	FLASH PATCH CONCRETE TO A SMOOTH MONOLITHIC SURFACE. REMOVE ROUGH SPOTS AND PROTRUSIONS.
26.	"TYPICAL" OR "TYP." AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION OR DIMENSION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT.	44.	ALL CLOSETS AND ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS ADJOINING SPACES.
27.	THE ARCHITECT SHALL HAVE THE RIGHT TO MAKE FIELD ADJUSTMENTS IN ORDER TO MAINTAIN DESIGN INTENT.	45.	THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR, AND HAVE CONTROL OVER, ALL CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES OF CONSTRUCTION, PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK REQUIRED BY THE CONTRACT DOCUMENTS.
28.	"CLEAR" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE DIMENSION IS NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT. CLEAR DIMENSIONS SHALL BE ACCURATE TO FINISH WALL MATERIAL. CONTACT ARCHITECT PRIOR TO CONSTRUCTION IF FIELD CONDITIONS DO NOT ACCOMMODATE SAID DIMENSION.	46.	24 HR. PRIOR TO OCCUPANCY THOROUGHLY CLEAN ALL SURFACES OF DUST, DEBRIS, LOOSE CONSTRUCTION MATERIAL AND EQUIPMENT. VACUUM OR MOP ALL FLOORS AND CLEAN WINDOWS.
29.	"ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE AND FINISH FACES IN THE SAME PLANE; AND/OR TO INSTALL NEW CONSTRUCTION ADJACENT TO EXISTING CONSTRUCTION WITHOUT ANY VISIBLE JOINTS OR SURFACE IRREGULARITIES.	47.	REVIEW PLANS AND PROVIDE BRACING/BLOCKING IN GYPSUM BOARD PARTITIONS AS REQUIRED FOR ANY WALL-MOUNTED ARCHITECTURAL WOODWORK, CASEWORK, FINISH CARPENTRY, FURNITURE, EQUIPMENT, ETC. FOR WOOD BLOCKING PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING UNLESS NOTED OTHERWISE.
30.	ANY DISCREPANCIES AS TO LOCATION BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS OR BETWEEN THE DRAWINGS AND EXISTING FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING FOR CLARIFICATIONS. WORK INSTALLED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S	48.	RECESSED ITEMS SHALL BE INSTALLED FLUSH WITH THE PARTITION UNLESS NOTED OTHERWISE. PARTITION DEPTH SHALL BE ADJUSTED TO ACCOMMODATE DEPTH OF THE RECESSED ITEM AS DIRECTED BY THE ARCHITECT.

THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND SHALL NOT IMPACT THE SCHEDULE.

THE GENERAL CONTRACTOR SHALL VERIFY SIZE, LOCATION AND CHARACTERISTICS OF ALL WORK 31 AND EQUIPMENT SUPPLIED BY THE OWNER OR OTHERS, WITH THE MANUFACTURER OR SUPPLIER PRIOR TO THE START OF RELATED WORK.

INSTALL AND MAINTAIN ALL NECESSARY COVERINGS. PROTECTIVE ENCLOSURES, TEMPORARY DOORS 32. AND PARTITIONS AND DUST BARRIERS TO PROTECT ALL OCCUPANTS AND REPLACE ANY DAMAGES CAUSED BY IMPROPER PROTECTION AT NO ADDITIONAL CHARGE TO OWNER.

ACOUST ACT AD ADJ AFF AHU ALUM AMB ANC ANOD AP APPROX ARCH ASPH ASSY A/V BD BFG BFF BLDG BLKG BM BOT BRG BRK BRKT BS B/T CAB CB CG CI CIP CJ CL CLG CLO CMU COL CONC CONN CONSTR CONT CONTR CORR CTR DBL DEMO DEPT DF DIA DIM DN DR DS DTL DWG(S) EA EF EJ EL ELEC ELEV

ENG

EOS

EQ

ACOUSTICAL ACOUSTICAL CEILING TILE AREA DRAIN ADJUSTABLE ABOVE FINISHED FLOOR AIR HANDLING UNIT (RE: MECH) ALUMINUM AIR-MOISTURE BARRIER ANCHOR ANODIZED ACCESS PANEL APPROXIMATE ARCHITECT(URAL) ASPHALT ASSEMBLY AUDIO/VISUAL BOARD BELOW FINISHED GRADE BELOW FINISHED FLOOR BUILDING BLOCKING BEAM BOTTOM BEARING BRACKET BOTH SIDES BETWEEN CABINET CHALK BOARD CORNER GUARD CAST IRON CAST-IN-PLACE CONTROL JOINT CENTER LINE CEILING CLOSET CONCRETE MASONRY UNIT COUNENTION CONSTRUCT(ION) CONTRUCT(ION) CONTRUCT(ION) CONTRUCT(ION) CONTRUCT(ION) CONTRUCT(ION) CONTRUCT(ION) CONTRUCT(ION)	
CABINET	
CAST IRON	
CENTER LINE	
CONCRETE MASONRY UNIT	
CONTINUOUS	
CONTRACTOR CORRIDOR	
CENTER	
DOUBLE DEMOLITION	
DEPARTMENT DRINKING FOUNTAIN	
DIAMETER	
DIMENSION DOWN	
DOOR	
DOWNSPOUT DETAIL	
DRAWING(S) EACH	
EXHAUST FAN	
EXPANSION JOINT ELEVATION	
ELECTRICAL	
ELEVATOR ELECTRONIC NEWS GATHERING	
EDGE OF SLAB EQUAL	

EQUIPMENT EACH WAY	
ELECTRIC WATER COOLER EXISTING	
EXPANSION EXTERIOR	
FIBER BOARD FURNISHED BY OTHERS	
FLOOR DRAIN FOUNDATION	
FIRE EXTINGUISHER FIRE EXTINGUISHER & CABINET	
FURNITURE, FIXTURES & EQUIPMENT	
FIRE HOSE CABINET FINISH	
FIRE VALVE CABINET FLUORESCENT	
FLOOR FACE OF CONCRETE	
FACE OF FINISH	
FACE OF STUD FLOOR SINK	
FRAME FIBERGLASS REINFORCED PLAS FIRE RETARDANT TREATED	STIC
FLOOR SINK FOOD SERVICE EQUIPMENT	
FOOT OR FEET FOOTING	
FURRING	
FIELD VERIFY GAUGE	
GALVANIZED GENERAL CONTRACTOR	
GLASS GYPSUM WALL BOARD	
HOSE BIBB HOLLOW CORE	
HANDICAPPED HEAD	
HARDWARE HARDWOOD	
HOLLOW METAL HORIZONTAL	
Hour Height	
HEATING, VENTILATION & AIR CONDITIONING	
INSIDE DIAMETER / DIMENSION INCH	
INSULATION / INSULATE	
JANITOR JOIST	
JOINT KITCHEN	
KNOCKOUT LONG / LENGTH	
LAMINATED	
LONG LEG HORIZONTAL LONG LEG VERTICAL	
LIGHT(LIGHTING) METER	
MASONRY	
MAXIMUM	

MECH MEP MFG MFR MH MILL MIN MIR MISC MLD MO MTD MTL MUL N/A NIC NO NOM NPS NTS	MECHANICAL MECHANICAL, ELECTRICAL & PLUMBING MANUFACTURER MANUFACTURER MILLWORK MINIMUM MIRROR MISCELLANEOUS MOLDING MASONRY OPENING MOUNTED METAL MULLION NOT APPLICABLE NOT IN CONTRACT NUMBER NOMINAL NATIONAL PIPE STANDARD NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR
OFCI OFF OH OPNG OPP OPT ORD OTS OZ PA PBD PC PL PLAM PLAS PLBG PLYWD PNL POL PR PLYWD PNL POL PR PREFIN PREFIN PREFIN PREF PSS PT PTD QT QTY R RA RCP RD RE RE RECPT REFL REINF RELOC REQ'D REV RM RO	OWNER FURNISHED, CONTRACTOR INSTALLED OFFICE OVERHEAD / OPPOSITE HAND OPENING OPPOSITE OPTIONAL OVERFLOW ROOF DRAIN OPEN TO STRUCTURE OUNCE PUBLIC ADDRESS PARTICLE BOARD PRECAST CONCRETE PLATE PLASTIC LAMINATE PLASTIC LAMINATE PLASTER PLUMBING PLYWOOD PANEL POLISHED PARE / PREPARATION PHOTOSTROBE SYNC PLATE POINT PAINTED QUARRY TILE QUARRY TILE QUARTY TILE REVESION / REVERSED ROOM ROUGH OPENING
RTU	ROOF TOP UNIT
SAN	SANITARY
SC	SOLID CORE

SCHED SECT SF (SQ FT) SH SHT SHTH SIM SP SPEC
SP HD SPKR SQ SS STD STL STO STRUCT SUSP SY (SQ YD)
T&B T&G TBD TEL TEMP TOC
TOD TOP TOS TOW TV TYP UNO VB (VPR BR)
VCT VERT VEST W/ W/O WC WD WDW
WH WP WT

WWF

- 49. WORK DAMAGED DURING CONSTRUCTION OR NOT CONFORMING TO SPECIFIED STANDARDS, TOLERANCE OR MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- 50. ALL DISSIMILAR METAL MATERIALS SHALL BE ISOLATED WITH NONMETAL SEPARATOR.
- OPEN EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, 51. BETWEEN WALL PANELS, AT PENETRATIONS OF UTILITIES THROUGH THE BUILDING ENVELOPE SHALL BE SEALED. CAULKED. FLASHED OR WEATHER-STRIPPED AS REQUIRED FOR COMPATIBILITY WITH ADJACENT MATERIALS AND TO ELIMINATE AIR LEAKAGE AND WATER ENTRY. REFERENCE SPECIFICATIONS FOR SEALANT REQ'S.

GENERAL CONSTRUCTION NOTES C3

ROOF / CEILING ASSEMBLY	R - 38
SLAB ON GRADE (MASS) FLOOR	R - 10 CONTINUOUS INSULA
JOIST FRAMED FLOORS OVER UNCONDITIONED SPACES	R - 30
CRAWL SPACE / BASEMENT WALL	R - 10/13
SLAB, 2FT DEPTH	R - 10
DUCT WORK	R - 8
* CEILINGS WITH ATTIC SPACE **CEILINGS WITHOUT ATTIC SPACE & AREA LE	SS THAN 500 SQUARE FEET

THERMAL VALUES

WALLS

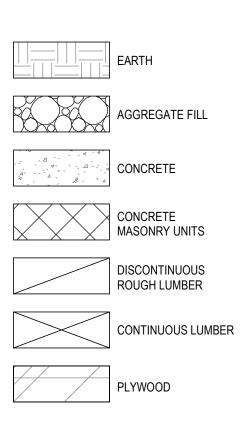
"CEILINGS WITHOUT ATTIC SPACE & AREA LESS THAN 500 SQUARE FEET

ALL WINDOW SYSTEMS TO HAVE LO-E COATING. U-VALUE TO BE 0.38 OR BETTER. SOLAR HEAT GAIN TO BE 0.40 OR BETTER.

ALL EXTERIOR DOORS TO HAVE Lo-e COATING. U-VALUE TO BE 0.77 OR BETTER. SOLAR HEAT GAIN TO BE 0.40 OR BETTER.

ALL THERMAL VALUES (INCLUDE THOSE NOT LISTED) TO COMPLY WITH IECC.

THERMAL REQUIREMENTS B1



	RIGID INSUL
	BLANKET IN
	GROUT
	STEEL
$ \begin{cases} \frac{1}{2} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} dx dx dx dx dx dx dx dx $	GYPSUM BO MORTAR JO
	FINISH LUME

GRAPHIC SYMBOLS C2

SCHEDULE SECTION SQUARE FOOT (FEET) SHOWER SHEET SHEATHING		BREAK LINE	ROOM NAME
SHEATHING SIMILAR SPACING SPECIFICATION SPENKLER HEAD SPEAKER SQUARE STAINLESS STEEL STANDARD	1 SIM 1 SIM A101 A101	BUILDING SECTION	101 GWB 8'-0"
STEEL STORAGE STRUCTURE/STRUCTURAL SUSPENDED SQUARE YARD(S) SYSTEM	1 A101 SIM	WALL SECTION	1a
TREAD TOP & BOTTOM TOUNGE AND GROOVE TO BE DETERMINED TELEPHONE	1 A101 SIM	DETAIL	XX
TEMPERED TOP OF CONCRETE TOP OF DECK TOP OF PARAPET TOP OF SLAB / TOP OF STEEL TOP OF WALL	1/A101	DETAIL NUMBER SHEET NUMBER	0
TELEVISION TYPICAL UNLESS NOTED OTHERWISE VAPOR BARRIER VINYL COMPOSITION TILE VERTICAL VESTIBULE		DETAIL REFERENCE	
WITH WITHOUT WATER CLOSET WOOD WINDOW WATER HEATER WATERPROOFING / WATERPROOF	1 /A101 101 1 /A101 1 /A101	ELEVATION NUMBER / SHEET NUMBER	O FEC
WEIGHT WELDED WIRE FABRIC		LEVEL	FEC
	<u>LEVEL</u>	ELEVATION	FEC
	— - — - — (A)	COLUMN GRID DESIGNATION	
	MATCH LINE RE: A1/A101	MATCHLINE ADJACENT REFERENCE	
		1 - HR RATED	
		2 - HR RATED	

3 - HR RATED

ROOM NAME ROOM NUMBER
DOOR NUMBER
CEILING TYPE CEILING HEIGHT
INTERIOR PARTITION TYPE
GLAZING TYPE

DETAIL KEYNOTE

REVISION NUMBER

CONSTRUCTION NOTE

SURFACE MOUNTED FIRE EXTINGUISHER CABINET

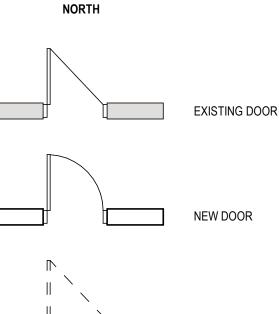
SEMI RECESSED FIRE EXTINGUISHER CABINET

FULLY RECESSED FIRE EXTINGUISHER CABINET

EXISTING CONSTRUCTION

NEW CONSTRUCTION

DEMOLISHED CONSTRUCTION



L ____ _

DEMOLISHED DOOR

ATION	

R - VALUES

R - 20

SHEET LIST

PROJECT COVER

PROJECT INFORMATION

GENERAL ACCESSIBILITY

INTERIOR ACCESSIBILITY

LEVEL 1 - FLOOR PLAN

REFLECTED CEILING PLAN

INTERIOR ELEVATIONS

MILLWORK DETAILS SCHEDULES AND DETAILS

FLOOR PLAN

FINISH PLAN

GENERAL

G000

G001

G002

G003

A101

A102

A103

A401

A402

A601

LIFE SAFETY LS101

ARCHITECTURE



JLATION

INSULATION

OARD JOINTS

MBER

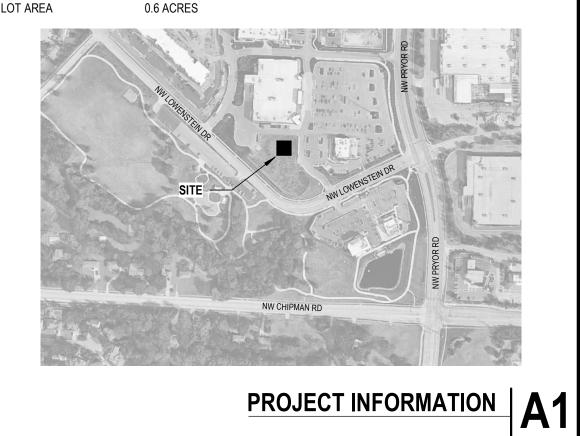
NORTH ARROW

NEW DOOR

PROJECT INFORMATION

ADDRESS ZONING LOT AREA

SITE: LEGAL DESCRIPTION LOT 5-A, A REPLAT OF LOTS 4 & 5, STREETS OF WEST PRYOR, LOTS 1 THRU 14, TRACTS "A", "B", "C", & "D" 2070 NW LOWENSTEIN DRIVE, SUITE A, LEE'S SUMMIT, MO 64081 PMIX PLANNED MIXED USE



STUDIO

OWNER

DICKINSON FINANCIAL CORPORATION 1111 MAIN STREET #1600 KANSAS CITY, MISSOURI 64105 816.472.5244

ARCHITECT

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CONTRACTOR

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ARCHITECT: LICENSE NO.

THOMAS JASON PROEBSTLE A-2002017812

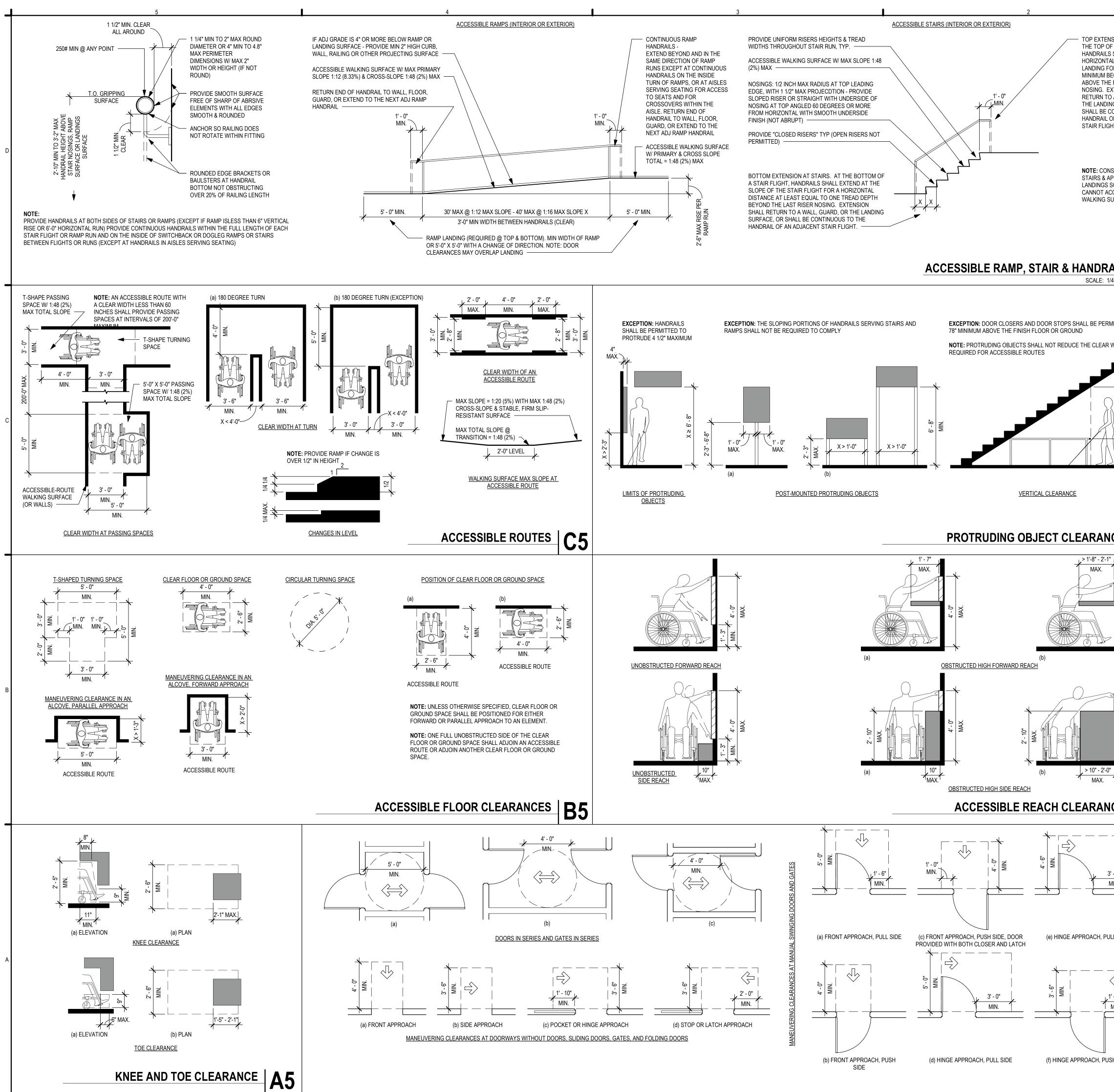


ACADEMY BANK LEE'S SUMMIT

2070 NW LOWENSTEIN DR SUITE A LEE'S SUMMIT, MO 64081

ISSUE DATE:	07.03.2024
REV DESCRIPTION	
PROJECT NO.	16014
DRAWN BY:	CG
CHK'D BY:	GB
SHEET TITLE	
DD	OJECT
E IN	JJLUI
INFOF	RMATION
)()1

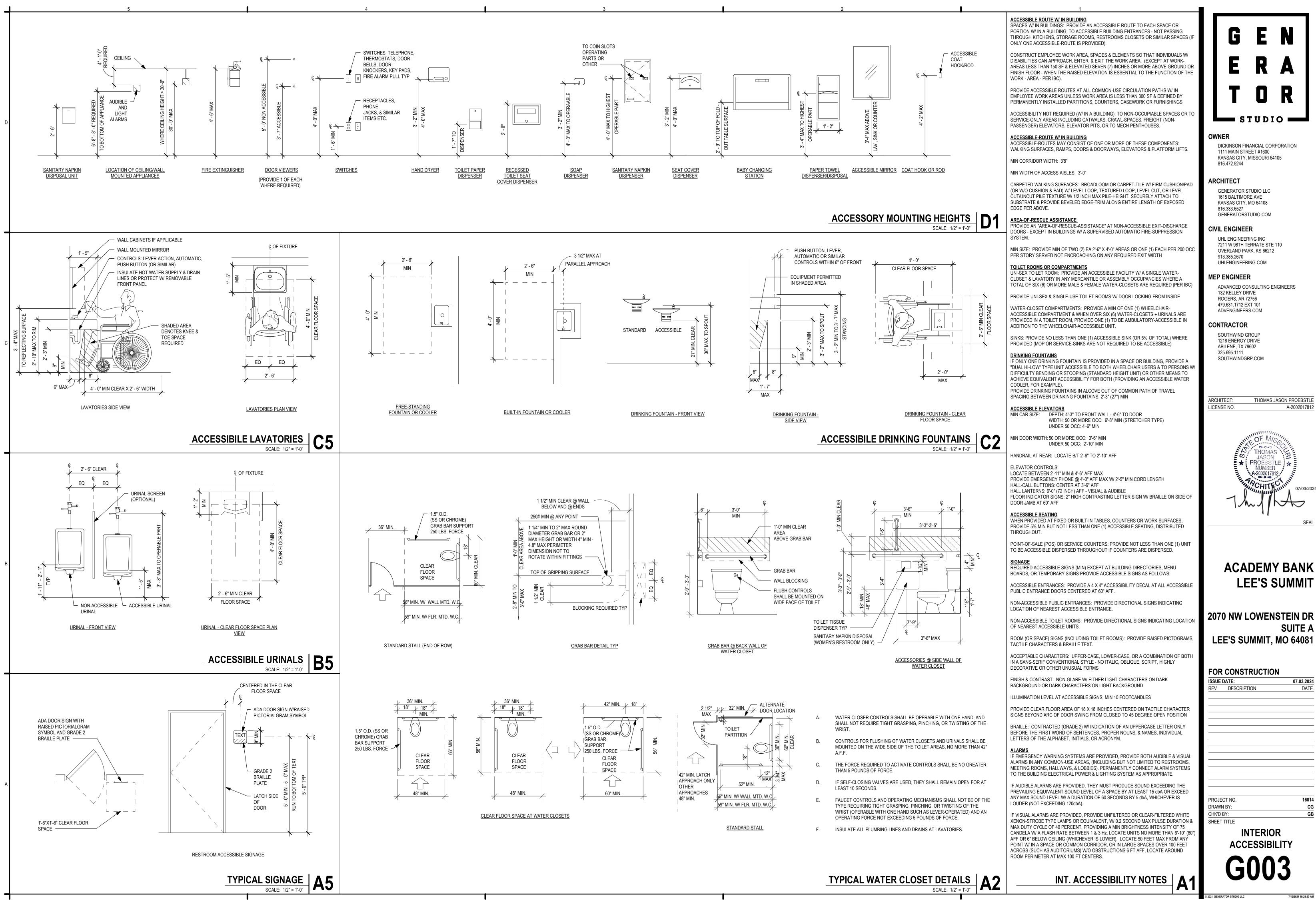




SION AT STAIRS.		GEN
F A STAIR FLIGHT SHALL EXTEND ALLY ABOVE THE DR 12 INCHES EGINNING DIREC FIRST RISER XTENSIONS SHAL	ACCESSIBLE ROUTE: PROVIDE AN ACCESSIBLE ROUTE CONNECTING ALL ACCESSIBLE SPACES AND ELEMENTS, INCLUDING WALKING SURFACES, RAMPS & CURB-RAMPS (EXCLUDING THE FLARED SIDES), DOORS & DOORWAYS, AND/OR ELEVATORS & PLATFORM LIFTS. AN ACCESSIBLE ROUTE MAY BE LOCATED AT EXTERIOR WALKS, AISLES, HALLS, CORRIDORS, SKYWALKS OR TUNNELS	
A WALL, GUARD NG SURFACE, OR CONTINUOUS TO 1 OF AN ADJACENT	, OR ACCESSIBLE WALKING SURFACES: PROVIDE STABLE, FIRM, & SLIP-RESISTANT SURFACE FINISHES W/ SURFACE OPENINGS (GRATINGS) NOT TO PERMIT PASSAGE OF A 1/2" DIAMETER SPHERE - WITH LONGEST DIMENSION PERPENDICULAR TO DIRECTION OF TRAVEL	
HT.	MINIMUM WHEELCHAIR TURNING SPACE CAN INCLUDE ALLOWABLE FIXTURE KNEE & TOE CLEARANCES UNO. DOOR SWINGS ARE PERMITTED TO OVERLAP TURNING SPACE UNO.	
STRUCT EXTRIOF	ACCESSIBLE BLDG ENTRANCES: PROVIDE 60% (MIN) OF ALL PUBLIC BLDG ENTRANCES (EXCLUDING THOSE FOR LOADING OR SERVICE USE) ACCESSIBLE FROM: ACCESSIBLE PARKING, A PUBLIC TRANSPORTATION STOP, OR FROM A PASSENGER LOADING ZONE (AS APPLICABLE) WITHOUT STEPS OR ABRUPT CHANGES IN LEVEL.	
PPROACHES & SO THAT WATER CCUMULATE ON	PROVIDE ONE (1 - MIN) ACCESSIBLE BLDG ENTRANCE AT THE GROUND FLOOR LEVEL AND ONE (1 - MIN) ACCESSIBLE ENTRANCE TO EACH PROPOSED TENANT SPACE IN A MULTIPLE-TENANT BLDG.	DICKINSON FINANCIAL CORPORATION 1111 MAIN STREET #1600 KANSAS CITY, MISSOURI 64105
URFACES	PROVIDE ACCESSIBLE ENTRANCE AT SERVICE OR LOADING ENTRIES (NOT INTENDED FOR ENTRANCE BY THE PUBLIC) IF THAT IS THE ONLY ENTRANCE TO A SPACE OR BUILDING.	816.472.5244 ARCHITECT
	MULTI-LEVEL BUILDINGS: PROVIDE ONE (MIN) ACCESSIBLE ROUTE (INCLUDING AN ELEVATOR TO CONNECT EACH BUILDING LEVEL ABOVE OR BELOW ACCESSIBLE LEVELS INCLUDING MEZZANINES) UNLESS THE FLOOR-AREA IS LESS THAN 3,000 SF AND DOES NOT INCLUDE 5 OR MORE MULTIPLE MERCANTILE (GROUP M) TENANTS, OR THE OFFICES OF HEALTH CARE PROVIDERS.	GENERATOR STUDIO LLC 1615 BALTIMORE AVE KANSAS CITY, MO 64108 816.333.6527 GENERATORSTUDIO.COM
AILS 4" = 1'-0"	OPERABLE PARTS: ACCESSIBLE OPERABLE PARTS INCLUDE CONTROLS AND OPERATING MECHANISMS (DOOR HARDWARE, WINDOW OPERATORS, DISPENSERS, LIGHT SWITCHES, CONVENIENCE OUTLETS, THERMOSTATS, ALARM CONTROLS, AND SIMILAR ELEMENTS).	CIVIL ENGINEER
/ITTED TO BE	PROVIDE AN ACCESSIBLE CLEAR-FLOOR SPACE AT ALL OPERATIONAL PARTS OPERATION: BY USE OF 1 HAND WITH A SINGLE EFFORT WITHOUT TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST - WITH 5.0 POUNDS MAXIMUM OPERATIONAL FORCE. COMPLY WITH ALLOWABLE REACH RANGES FOR HEIGHT OF OPERABLE PARTS.	UHL ENGINEERING INC 7211 W 98TH TERRATE STE 110 OVERLAND PARK, KS 66212 913.385.2670 UHLENGINEERING.COM
WIDTH	ACCESSIBLE DOOR & GATE REQUIREMENTS: REVOLVING DOORS OR GATES ARE NOT ACCESSIBLE.	MEP ENGINEER ADVANCED CONSULTING ENGINEERS 132 KELLEY DRIVE
	SECURITY & MAINTENANCE DOORS (INCLUDING SERVICE-ACCESS DOORS) DO NOT NEED TO COMPLY WITH ACCESSIBILITY REQUIREMENTS.	ROGERS, AR 72756 479.631.1712 EXT 101 ADVENGINEERS.COM
)	DOUBLE-LEAF DOORS OR GATES: ONLY ONE LEAF (MIN) MUST COMPLY WITH ACCESSIBILITY REQUIREMENTS	CONTRACTOR
	RECESSED DOORS: PROVIDE FORWARD APPROACH CLEARANCE WITH ANY OBSTRUCTION WITHIN 18 INCH قر V PROJECTING MORE THAN 8 INCHES BEYOND THE FACE OF DOOR MEASURED PERPENDICULAR TO FACE OF DOOR	SOUTHWIND GROUP 1218 ENERGY DRIVE ABILENE, TX 79602 325.695.1111
2' - 3"	 DOOR SURFACES: PROVIDE SMOOTH SURFACE WITHIN 0'-10" AFF ON PUSH-SIDE EXTENDING FULL WIDTH WITH MAX 1/16" BETWEEN SURFACE PLANE AND ANY PARTS (KICKPLATE). CAP CAVITIES FORMED BY KICKPLATES EXCEPT AT SLIDING DOORS, TEMPERED GLASS DOORS WITHOUT SIDE STILES WITH A BOTTOM RAIL WITH ITS TOP EDGE SLOPED 60° FROM HORIZONTAL OR MORE, OR AT DOORS NOT EXTENDING TO 0'-10" AFF 	SOUTHWINDGRP.COM
	SIDELITES OR VISION LITES: AT DOORS AND SIDELITES ADJACENT TO DOORS WITH ONE OR MORE GLAZING PANELS PERMITTING VIEWING, PROVIDE BOTTOM EDGE OF AT LEAST ONE PANEL ON EITHER THE DOOR OR THE ADJACENT SIDELITE AT 43" MAX AFF, EXCEPT AT VISION LITES (ONLY) WITH THE LOWEST PART MORE THAN 66" AFF.	ARCHITECT: THOMAS JASON PROEBSTLE LICENSE NO. A-2002017812
ces 🌈	ACCESSIBLE DOOR & GATE HARDWARE: PROVIDE ACCESSIBLE HARDWARE WITH AN EASY-TO-GRASP SHAPE COMPLYING WITH OPERABLE PARTS REQUIREMENTS (LEVERS PUSH/PULLS, OR PANIC DEVICES ARE ACCEPTABLE), MOUNTED BETWEEN 2'-10" AND 4'-0" AFF, WITH MAX PROJECTION (INTO REQUIRED MIN CLEARANCES) OF 4" BTWN 34 - 80" AFF	DE MISSING
_ ∦	SLIDING DOOR/GATE HARDWARE: OPERABLE PARTS MUST BE EXPOSED AND USABLE FROM BOTH SIDES WHEN DOOR IS FULLY OPEN	
	DOOR/GATE CLOSERS: ADJUST UNITS TO PROVIDE 5 SECOND (MIN) TIME TO MOVE DOOR/GATE FROM 90° OPEN-POSITION TO 12° OPEN-POSITION.	NUMBER A-2002017812
3' - 8" MAX.	DOOR/GATE SPRING-HINGES: ADJUST TO PROVIDE 1-1/2 SECOND MIN TIME TO MOVE DOOR/GATE FROM 70° OPEN-POSITION TO CLOSED-POSITION OPENING-FORCE OF CLOSERS OR SPRING-HINGES: 5.0 LBS MAX @ INTERIOR HINGED, SLIDING OR FOLDING	07/03/2024
~ ~	DOORS OR GATES (NOT APPLICABLE TO LATCH-BOLT RETRACTION FORCE AND NOT APPLICABLE TO OPENING FORCE AT FIRE-DOORS - TO BE AS REQD BY AJH)	SEAL
	AUTOMATIC DOORS OR GATES: REFERENCED STANDARDS: COMPLY WITH ANSI/BHMA A156.10. AND FOR POWER-ASSIST AND LOW-ENERGY DOORS, COMPLY WITH ANSI/BHMA A156.19 (UNLESS DOORS OR GATES ARE DESIGNED TO BE OPERATED ONLY BY SECURITY PERSONNEL)	
	COMPLY WITH ACCESSIBLE CLEAR-FLOOR SPACE, THRESHOLD / FLOOR-SURFACE, AND DOORS-IN- SERIES REQUIREMENTS.	ACADEMY BANK
×.	MANUAL CONTROLS: COMPLY WITH "OPERABLE PARTS" REQMTS WITH THE CLEAR FLOOR SPACE ADJACENT TO THE CONTROL SWITCH LOCATED BEYOND THE DOOR/GATE SWING. ACCESSIBLE WINDOWS:	LEE'S SUMMIT
3' - 10" MAX.	PROVIDE OPERATIONAL PARTS LOCATED PER "OPERABLE PARTS" REQMTS W/ MIN ACCESSIBLE CLEAR- FLOOR SPACE ADJACENT TO THE WINDOW. SPECIAL ACCESS (PLATFORM) LIFTS (INTERIOR OR EXTERIOR):	
	COMPLY WITH ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS, SECTION XX (WITH ACCESSIBLE KEY-CONTROLS IF LIFT TRAVEL AREA IS NOT ENCLOSED) AND AS FOLLOWS: MAX TRAVEL HEIGHT: 60 INCHES MIN CAPACITY: 400 POUNDS	2070 NW LOWENSTEIN DR SUITE A
	MIN PLATFORM SIZE: 30 X 48 INCH MAX SPEED: 20 FPM	LEE'S SUMMIT, MO 64081
	ACCESSIBILITY NOTES B1	FOR CONSTRUCTION
— — 		ISSUE DATE: 07.03.2024 REV DESCRIPTION DATE
- 6"	$\begin{bmatrix} 0 \\ -4 \\ -4 \\ -4 \\ -4 \\ -4 \\ -4 \\ -4 \\ $	
/IN.		
	(i) LATCH APPROACH, PULL SIDE, OVIDED WITH BOTH CLOSER AND LATCH(i) LATCH APPROACH, PULL SIDE, DOOR PROVIDED WITH CLOSER(k) LATCH APPROACH, PUSH SIDE, DOOR PROVIDED WITH CLOSER(k) LATCH APPROACH, PUSH SIDE, DOOR PROVIDED WITH CLOSER(k) LATCH APPROACH, PUSH SIDE, DOOR PROVIDED WITH CLOSER	
		PROJECT NO. 16014
' - 10" MIN.		DRAWN BY: CG CHK'D BY: GB SHEET TITLE
		GENERAL ACCESSIBILITY
SH SIDE	(h) LATCH APPROACH, PULL SIDE (j) LATCH APPROACH, PUSH SIDE	G002
	DOOR APPROACHES A1	

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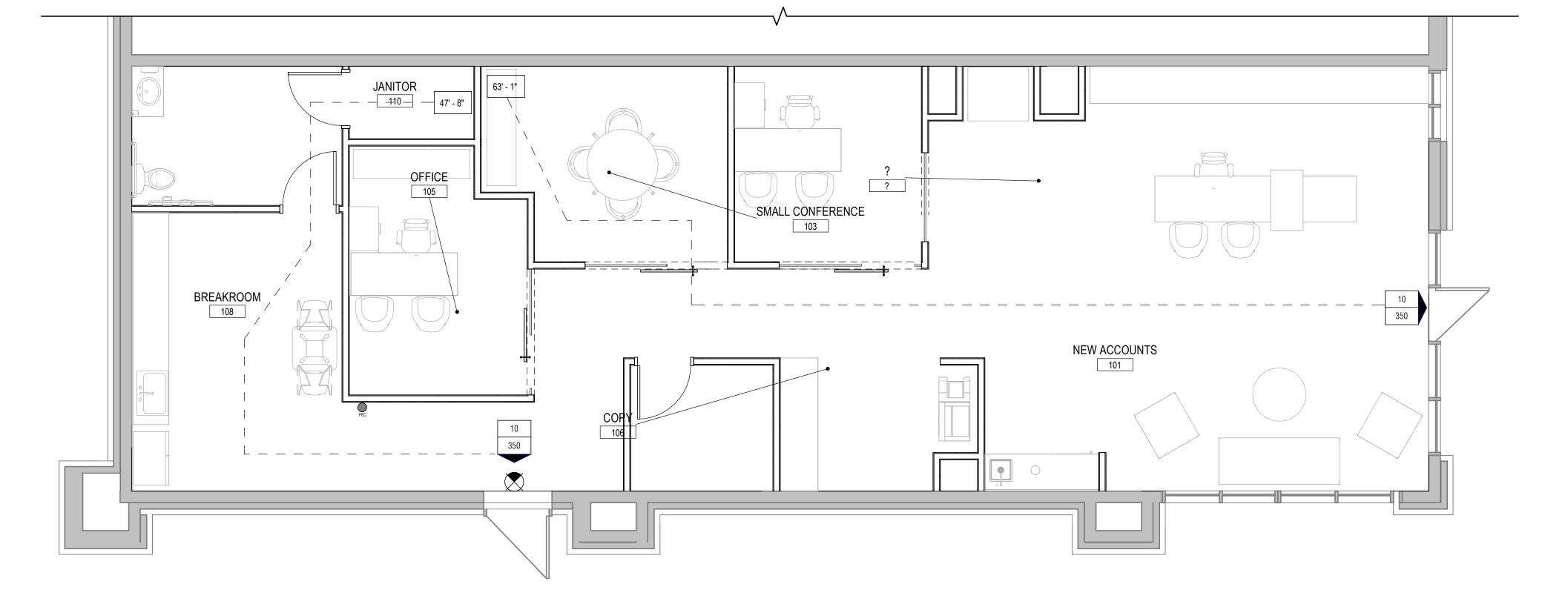
SEAL

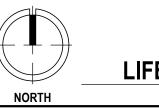
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CG







	LIFE SAFETY LEGEND 🗚 🕇	
		PROJEC DRAWN CHK'D E SHEET
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FEC 🔨		
	SCOPE OF WORK BOX FULLY RECESSED FIRE EXTINGUISHER CABINET	
X'-X"	EXIT SIGNAGE TRAVEL DISTANCE	
	OCCUPANTS EXITING OCCUPANT CAPACITY	
LEGEND:		ARCHIT
PROVIDED REQ'D PROVIDED	0 (WATER BOTTLES PROVIDED) <u>Other</u> 1 Service Sink 1 Service Sink	AB 32! SC
REQ'D PROVIDED	1 1 DRINKING FOUNTAINS (1 PER 100) 1 1 1 1 1 1 1 1 1 1 1 1 1	CONT SC 12
PROVIDED	1 (PER IBC 2902.2 EXCEPTION 4. SEPARATE FACILITIES SHALL NOT BE REQUIRED IN BUSINESS OCCUPANCIES IN WHICH THE MAXIMUM OCCUPANT LOAD IS 25 OR FEWER) <u>LAVATORIES</u> UNISEX	MEP I AD 132 RC 479 AD
OCCUPANCY = 10 EA REQ'D	10 MALE / 10 FEMALE <u>WATER CLOSETS</u> UNISEX 1	OV 91: UH
BUSINESS CLASSIFICATION (IBC T)		UH 72
Exits Provided: MINIMUM NUMBER OF REQUIRED I	2 PLUMBING FIXTURES:	816 GE CIVIL
Exits Required: (Table 1006.2(1))	20 OCC < 49 OCC = 1 EXIT REQUIRED	GE 16 ⁻ KA
Actual Gross Building Area: Occupant Load	DEMISED TENANT SPACE - 1,743 SF TENANT SPACE: 1,743 SF / 150 GROSS = 11 OCC. INCREASED OCC LOAD PER 1004.5.1 = 9 OCC. TOTAL: 20 OCC.	11 KA 810 ARCH
Construction Type: (Table 602) Automatic Sprinklers:	V-B (EXISTING NO CHANGE)	
Use and Occupancy Classification: (Section 304)	B - BUSINESS	╏┕
PLUMBING CODE: PLUMBING CODE: MECHANICAL CODE: GAS CODE: ELECTRICAL CODE: FIRE CODE: ENERGY CODE:	2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FUEL GAS CODE 2017 INTERNATIONAL ELECTRICAL CODE 2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL ENERGY CONSERVATION CODE	
MECHANICAL CODE: GAS CODE: ELECTRICAL CODE: FIRE CODE:	2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FUEL GAS CODE 2017 INTERNATIONAL ELECTRICAL CODE 2018 INTERNATIONAL FIRE CODE	

Ε N Π A STUDIO

SON FINANCIAL CORPORATION AIN STREET #1600 S CITY, MISSOURI 64105 5244

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ATOR STUDIO LLC LLTIMORE AVE S CITY, MO 64108 TORSTUDIO.COM

SINEER

GINEERING INC 98TH TERRATE STE 110 ND PARK, KS 66212 2670 INEERING.COM

NEER

CED CONSULTING ENGINEERS LLEY DRIVE RS, AR 72756 .1712 EXT 101 GINEERS.COM

TOR

WIND GROUP IERGY DRIVE E, TX 79602 111 VINDGRP.COM

> THOMAS JASON PROEBSTLE A-2002017812



CADEMY BANK LEE'S SUMMIT

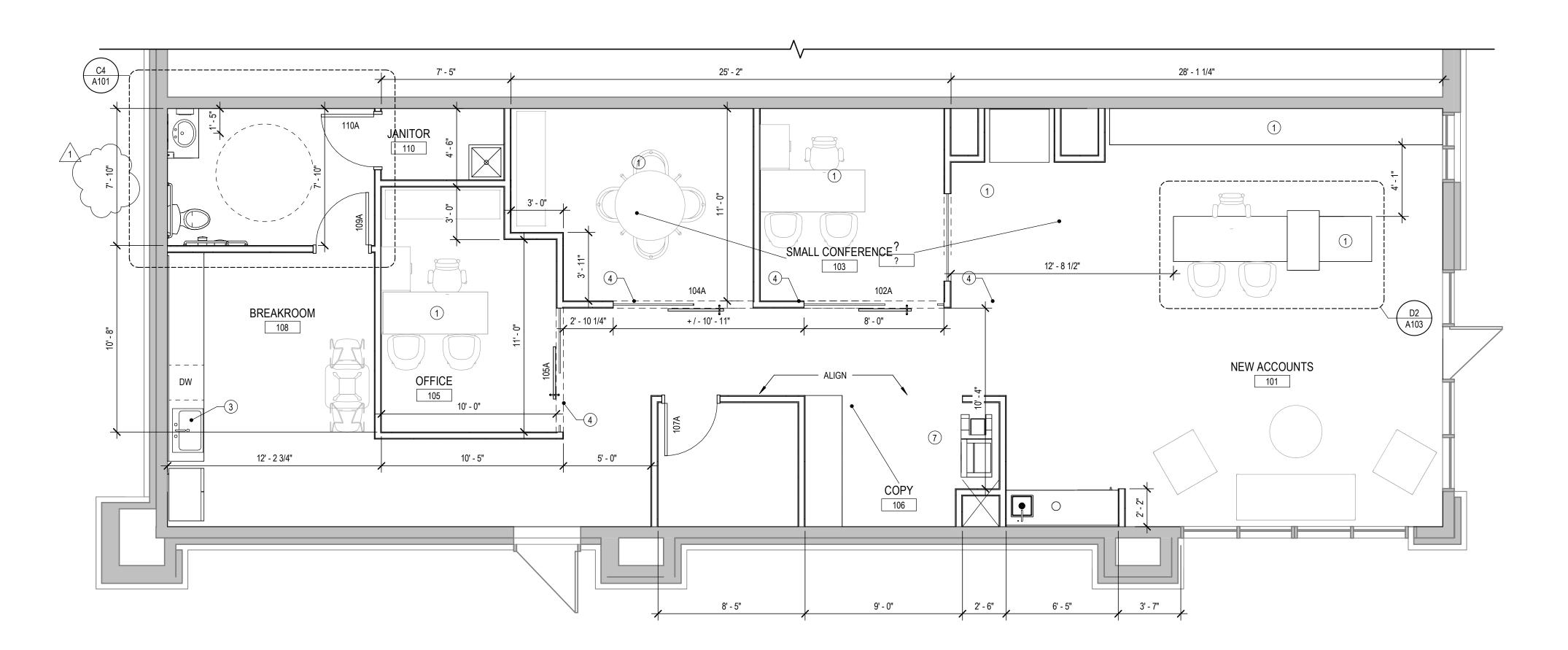
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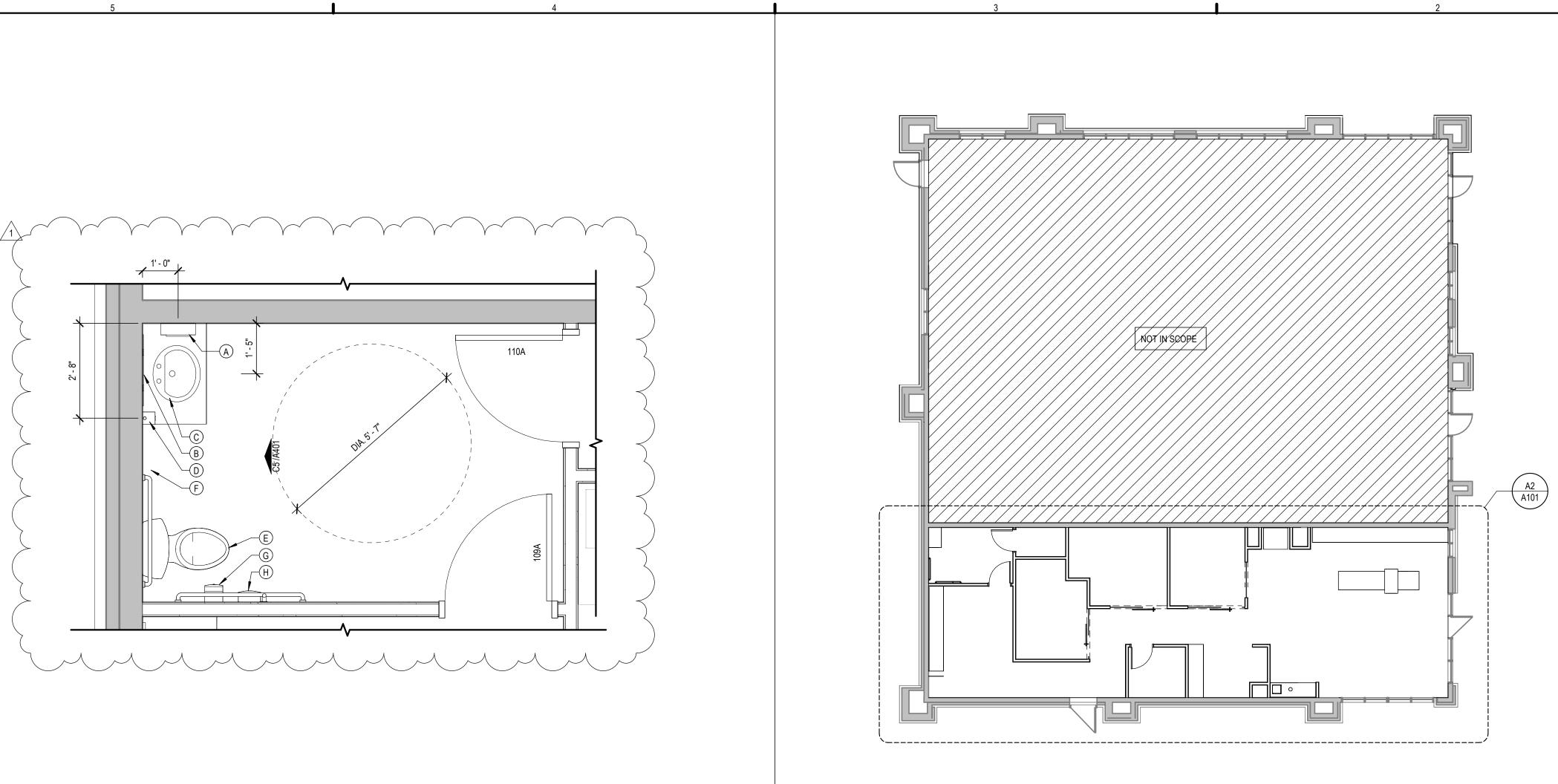
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ENLARGED RESTROOM PLAN





SHELL BUILDING PLAN

SCALE: 1" = 10'-0"

FLOOR PLAN GENERAL NOTES

- A. THE CONTRACTOR SHALL TAKE PRECAUTION DURING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING ITEMS TO REMAIN. ANY DAMANGE DONE TO EXISTING ITEMS DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL PRE-CONSTRUCTION CONDITION AND/OR REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COST TO THE OWNER.
- B. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PATCH AND REPAIR OR RESTORE AND REFINISH (AS APPLIES) ALL ADJACENT SURFACES AFFECTED BY NEW CONSTRUCTION.
- C. ALL DIMENSIONS FROM FINISH FACE OF MATERIAL TO FINISH FACE OF MATERIAL UNLESS NOTED OTHERWISE.
- D. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT IF DISCREPANCIES EXISTING THAT WILL EFFECT LAYOUT & DESIGN INTENT.
- E. CONTRACTOR TO VERIFY / COORDINATE REQUIRED CLEARANCES FOR MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT.
- F. PROVIDE CONCEALED BLOCKING FOR ALL WALL MOUNTED ACCESSORIES & EQUIPMENT.
- G. ALL SWITCHES, OUTLETS, DATA & PHONE JACKS TO BE GRAY UNLESS NOTED OTHERWISE. ALL COVER PLATES TO BE BRUSHED SATIN NICKEL UNLESS NOTED OTHERWISE.
- H. REFER TO A601 FOR DOOR SCHEDULE AND DETAILS.
- I. ALL WALL TYPES TO BE A1 U.N.O.

FLOOR PLAN KEYED NOTES

- 1) PROVIDE ELECTRICAL OUTLET AND DATA CONNECTION TO SERVE TABLE, DESK AND/OR EQUIPMENT ABOVE. INSTALL IN FLOOR WHERE REQUIRED AND COORDINATE LOCATION TO CONCEAL ACCESS TO GREATEST AMOUNT FEASIBLE. FINAL LOCATION TO BE COORDINATED WITH FINISH PLAN.
- (2) PROVIDE HARDWIRE PHONE JACK IN FLOOR. PHONE JACK TO SHARE ACCESS WITH ELECTRICAL OUTLET AND DATA CONNECTION.
- (3) PROVIDE DISPOSAL AT SINK.
- (4) DEMOUNTABLE WALL PARTITION. OWNER FURNISHED, CONTRACTOR INSTALLED 8' TALL
- (5) INSTALL PLUG MOLD FOR POWER AND DATA ON PLAN SOUTH WALL FOR LENGTH OF COUNTER.
- (6) INSTALL RECEPTACLE & DATA CONNECTION FOR WALL MOUNTED TV. COORDINATE LOCATION TO CENTER & FULLY CONCEAL OUTLET BEHIND TV MONITOR. FINAL LOCATION TBD. PROVIDE FOR IN WALL RECESS BOX. COORDINATE WITH OWNER AS REQUIRED.
- (7) EQUIPMENT PROVIDED BY OTHERS. GC TO COORDINATE POWER & DATA REQUIRED FOR INSTALLATION.

TOILET ACCESSORY KEYED NOTES

- (A) PAPER TOWEL DISPENSER BOBRICK C 4262 CONTURA SERIES
- (B) WALL MTD FRAMELESS MIRROR
- (C) WALL HUNG SINK
- (D) SOAP DISPENSER
- (E) FLOOR MTD TOILET
- (F) GRAB BARS
- (G) TOILET PAPER DISPENSER BOBERICK B-4288 CONTURA SERIES (H) SANITARY NAPKIN DISPENSER BOBRICK B-270 SERIES

G Ε

OWNER

DICKINSON FINANCIAL CORPORATION 1111 MAIN STREET #1600 KANSAS CITY, MISSOURI 64105 816.472.5244

ARCHITECT

GENERATOR STUDIO LLC 1615 BALTIMORE AVE KANSAS CITY, MO 64108 816.333.6527 GENERATORSTUDIO.COM

CIVIL ENGINEER

UHL ENGINEERING INC 7211 W 98TH TERRATE STE 110 OVERLAND PARK, KS 66212 913.385.2670 UHLENGINEERING.COM

MEP ENGINEER

ADVANCED CONSULTING ENGINEERS 132 KELLEY DRIVE ROGERS, AR 72756 479.631.1712 EXT 101 ADVENGINEERS.COM

CONTRACTOR

SOUTHWIND GROUP 1218 ENERGY DRIVE ABILENE, TX 79602 325.695.1111 SOUTHWINDGRP.COM

ARCHITECT: LICENSE NO.

THOMAS JASON PROEBSTLE A-2002017812



ACADEMY BANK LEE'S SUMMIT

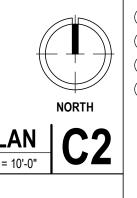
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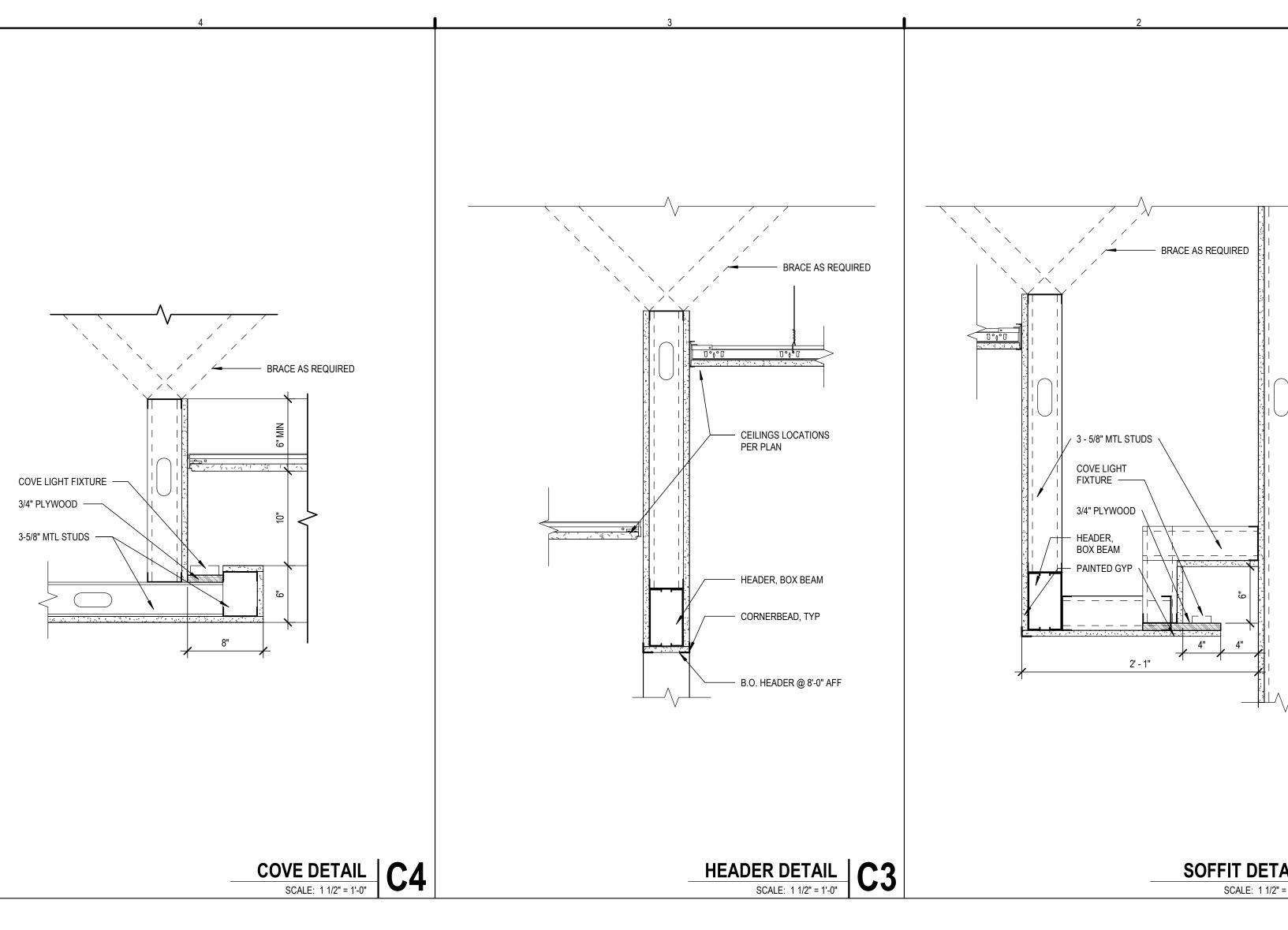
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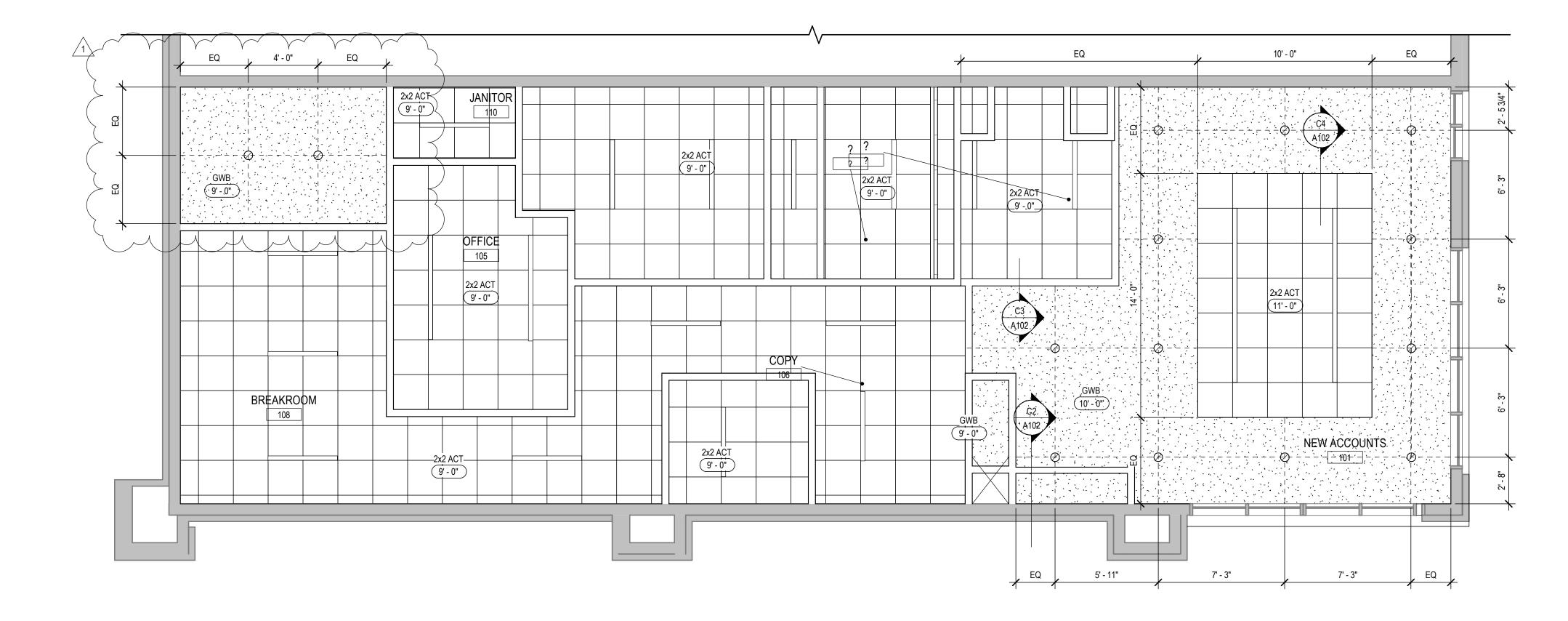
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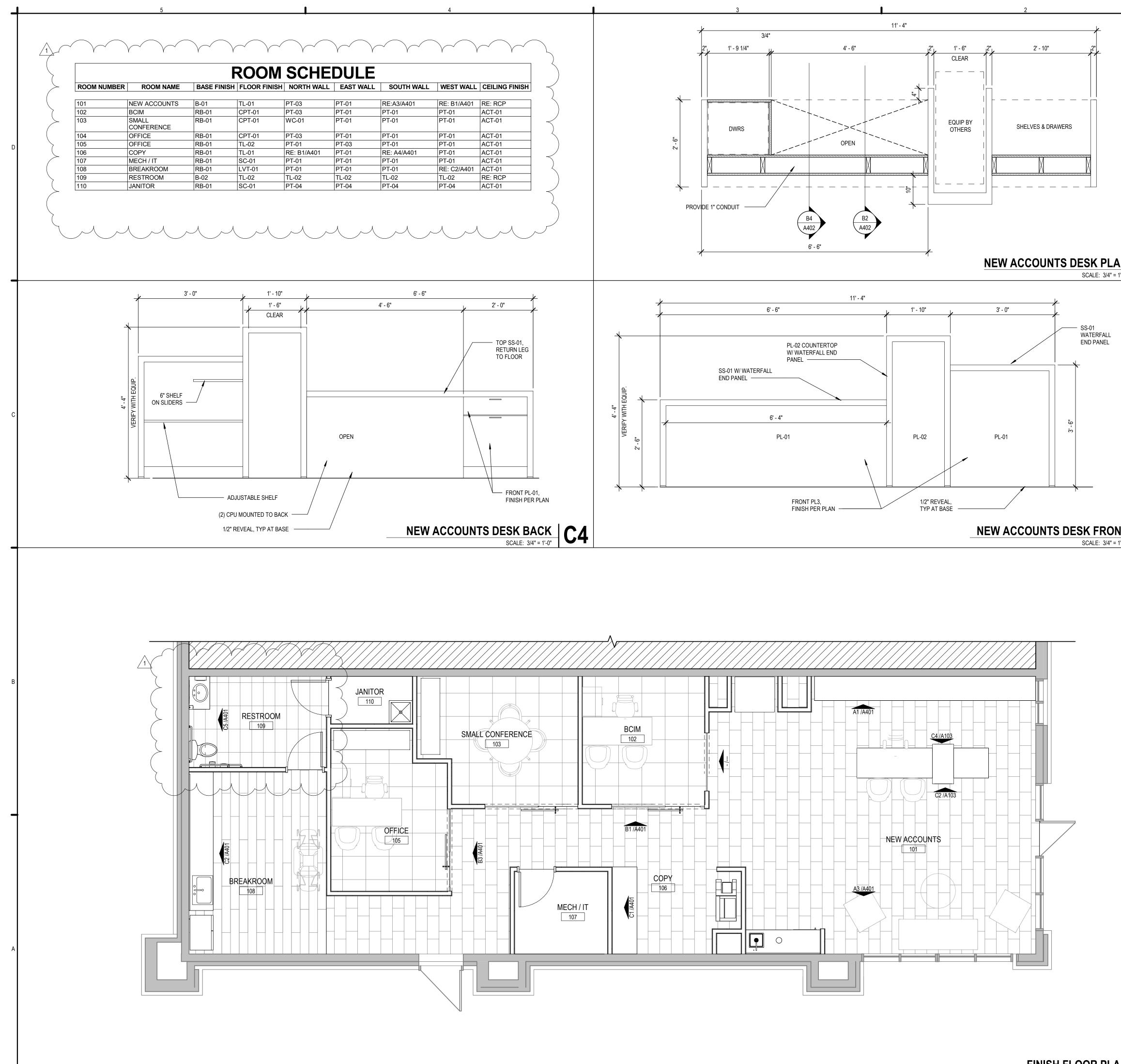








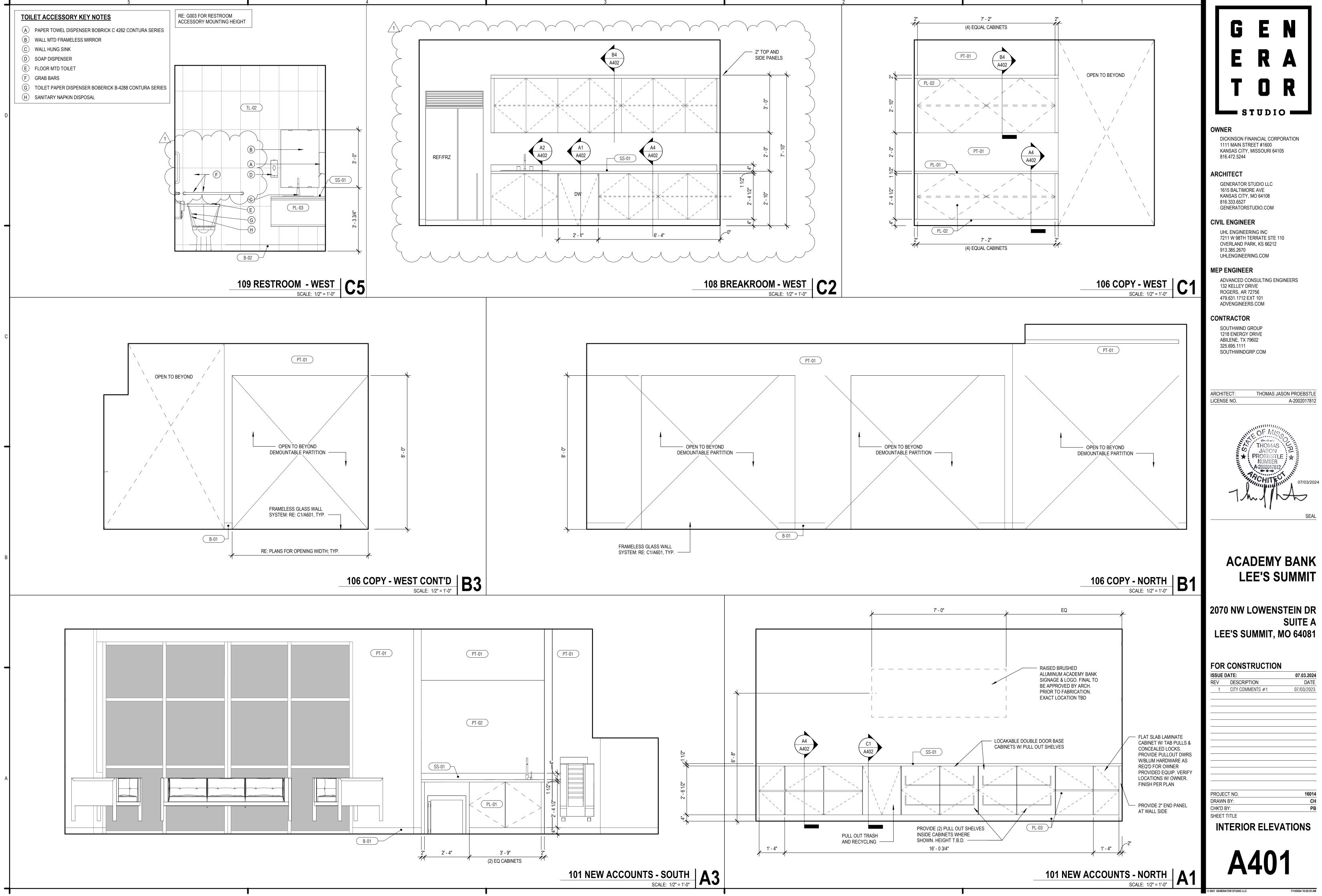
	CEILING PLAN GENERAL NOTES		
	A. ALL CIRCUITING FOR ELECTRICAL T	O BE BY ELECTRICAL SUBCONTRACTOR.	
	B. PROVIDE DUPLEX OUTLETS AS IDEN OUTLETS IN ALL WET AREAS AS REC	NTIFIED ON DRAWINGS AND AS REQ'D BY CODE. PROVIDE GFCI Q'D BY CODE.	
	C. ALL HVAC TO BE DESIGN/BUILD BY (CONTRACTOR.	
	D. CONTACT ARCHITECT IF CEILING HE CONDITIONS.	EIGH NOTED IN DWGS ISN'T FEASIBLE DUE TO EXISTING	
	ITEMS TO REMAIN. ANY DAMAGE DO RESTORED TO THEIR ORIGINAL PRE	JCTION DURING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING ONE TO EXISTING ITEMS DURING CONSTRUCTION SHALL BE E-CONSTRUCTION CONDITION AND/OR REPARED BY THE ON OF THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COST	
	F. INSTALL CONCEALED MECHANICAL	TOUCH-LATCH ACCESS DOOR WITH CONCEALED HARDWARE &	OWNER
	GYPSUM BOARD INLAY WHERE REC G. ALL WALL TV LOCATIONS TO BE VER	2D. RIFIED WITH OWNER PRIOR TO INSTALLATION. WALL LOCATIONS	DICKINSON FINANCIAL CORPORATION 1111 MAIN STREET #1600
	SHOWN FOR PRICING PURPOSES.		KANSAS CITY, MISSOURI 64105 816.472.5244
	H. PROVIDE BI-LEVEL SWITCHING OR (505.2.2.1 AND 505.2.2.2. OF THE 2006	DCCUPAND SENSOR & AUTOMATIC LIGHTING SHUTOFF(S). PER	ARCHITECT
	I. UNO CENTER ACT GRID IN EACH RC	DOM.	GENERATOR STUDIO LLC
	CEILING PLAN SYMBOLS LEGENI	<u>)</u>	1615 BALTIMORE AVE KANSAS CITY, MO 64108 816.333.6527
		#" RECESSED GRID LED, XAL LIGHTING - LENO IK731727OH70040, LED (3850 LUMEN) 3500K/30W - O.C. GRID	GENERATORSTUDIO.COM
		NEW GYPSUM WALL BOARD CEILING	UHL ENGINEERING INC 7211 W 98TH TERRATE STE 110 OVERLAND PARK, KS 66212
		ACT: ARMSTRONG ULTIMA 2X2, 15/16 BEVELED REGULAR	913.385.2670 UHLENGINEERING.COM
			MEP ENGINEER
	GWB 8'-0"	CEILING HEIGHT TAG	ADVANCED CONSULTING ENGINEERS 132 KELLEY DRIVE
			ROGERS, AR 72756 479.631.1712 EXT 101
	L L	2X2 LAY-IN LIGHT FIXTURE W/ BATTERY FEATURES, LITHONIA LIGHTING, 2VTL2-40L-ADPT EZ1- LP840-(EL14L), LED (4000 LUMEN) 400K/35W	ADVENGINEERS.COM
			CONTRACTOR SOUTHWIND GROUP
		2X4 LAY-IN LIGHT FIXTURE W/ BATTERY FEATURES	1218 ENERGY DRIVE ABILENE, TX 79602
			325.695.1111 SOUTHWINDGRP.COM
		" RECESSED CAN LIGHT, LITHONIA LIGHTING, REAL6 D6MV ESL	
		1000L 30K	
		ED STRIP LIGHTING CONCEALED IN COVER PER DETAIL	ARCHITECT: THOMAS JASON PROEBSTLE LICENSE NO. A-2002017812
		C4/A111 FLEXFIRE LEDS, COLORBRIGHT NATURAL WHITE	
		AREA NOT IN SCOPE	
= 1'-0"			THOMAS JASON PROEBSTLE NUMBER A-2002017812 07/03/2024 SEAL
			ACADEMY BANK LEE'S SUMMIT
			2070 NW LOWENSTEIN DR SUITE A LEE'S SUMMIT, MO 64081
			FOR CONSTRUCTION ISSUE DATE: 07.03.2024 REV DESCRIPTION DATE 1 CITY COMMENTS #1 07/03/2023
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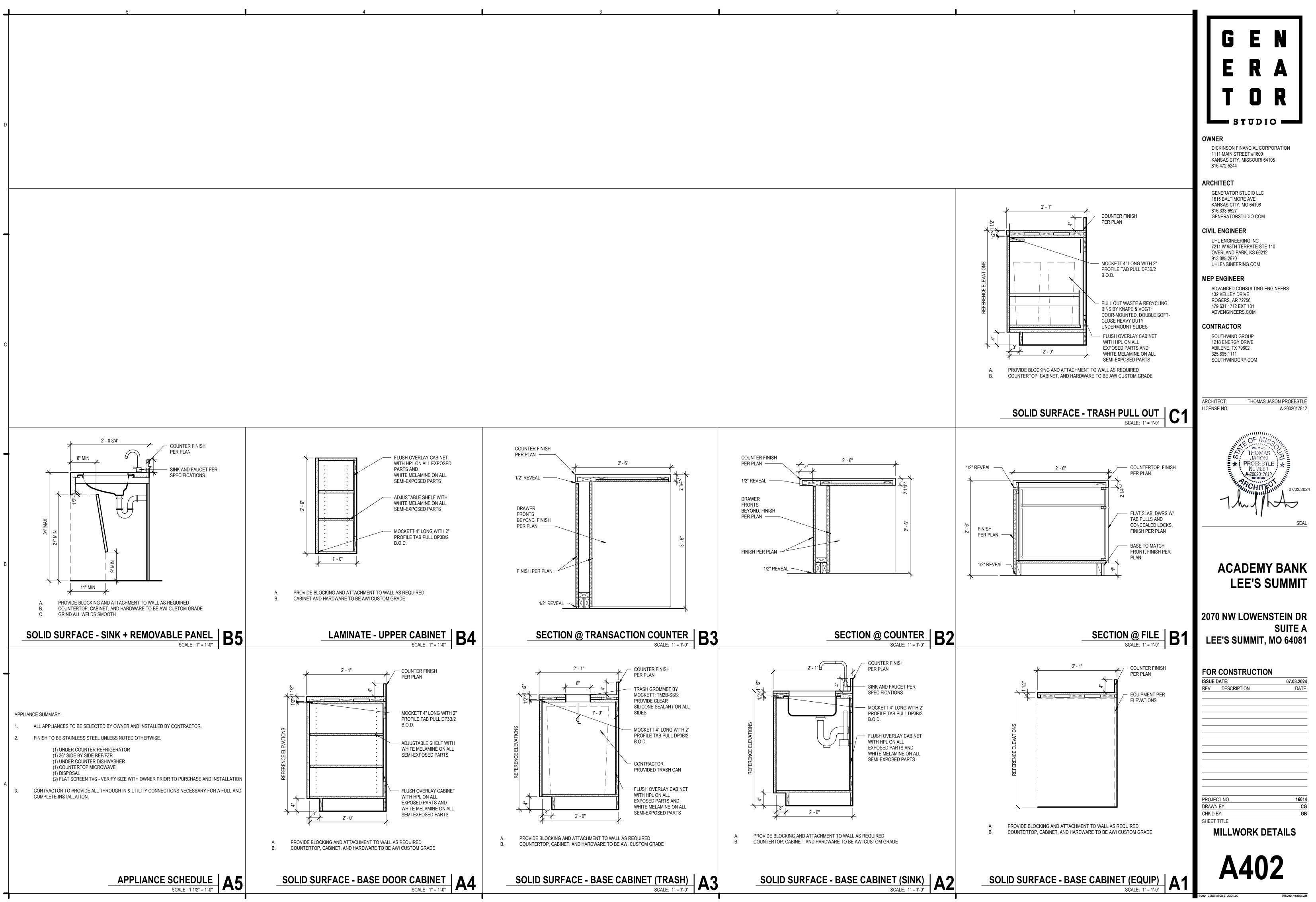


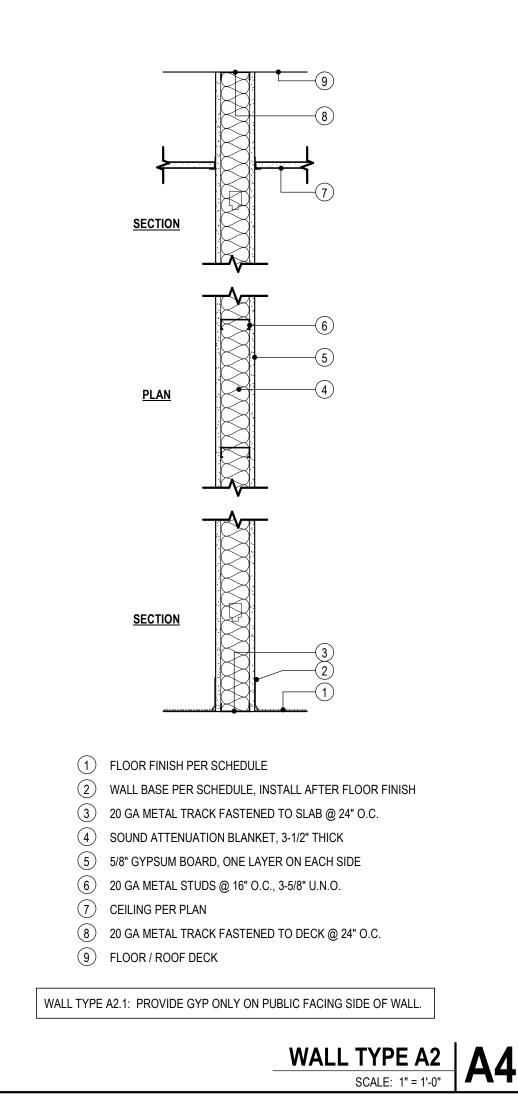
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	FINISH PLAN GENERAL NOTES	
	A. ALL WALLS TO BE P1 UNLESS NOTED OTHERWISE ON FINISH PLANS. GWB CEILINGS ARE TO BE PAINTED P3, CEILING BRIGHT WHITE UNLESS NOTED OTHERWISE.	
	B. ALL FLOOR AND WALL FINISHES ARE TO BE PROVIDED AND INSTALLED BY PROFESSIONAL CARPET, TILE AND/OR FLOOING CONTRACTORS.	
	C. CONTRACTOR SHALL ADHERE TO ALL CURRENT MANUFACTURERS PRINTED SPECIFICATIONS FOR APPROVED INSTALLATION METHODS (FOR EXAMPLE, BUT NOT LIMITED TO ADHESIVE TYPES, CUTTING METHODS AND SEAM SEALERS ETC.)	
	D. ALL MATERIALS SHALL BE INSPECTED FOR FLAWS, DEFECTS OR DISCOLORATION PRIOR TO CUTTING.	
	E. ALL CHANGES IN FINISH FLOORING MATERIALS OCCURRING AT DOORWAYS SHALL BE AT THE CENTERLINE OF THE DOORWAY U.N.O. ALL OTHER FLOORS MATERIAL TRANSITIONS SHALL BE ACCOMPLISHED SMOOTHLY TO THE SATISFACTION OF THE ARCHITECT AND OWNER. NO HEIGHT DIFFERENCE IN FLOORING MATERIAL CHANGES PERMITTED. USE ROPPE SUBFLOOR	
	LEVELER OR FLOOR LEVELING COMPOUND TO TAPER AS REQUIRED. F. FURNISH AND INSTALL PROPER METAL TRANSITION STRIPS AT CONNECTIONS BETWEEN CARPET AND TILE.	DICKINSON FINANCIAL CORPORATION 1111 MAIN STREET #1600 KANSAS CITY, MISSOURI 64105
	G. CONTRACTOR TO IMMEDIATELY NOTIFY ARCHITECT/DESIGNER OF ANY VISUAL DEFECTS ENCOUNTERED DURING INSTALLATION AND SHOULD NOT PROCEED WITH INSTALLATION OF A DEFECTIVE MATERIAL.	816.472.5244 ARCHITECT
	 H. ALL CABINET DOORS AND DRAWERS SHALL UTILIZE HEAVY DUTY 120 EUROPEAN CONCEALED HINGES, FULL-EXTENSION DRAWER GLIDES FOR FLUSH-OVERLAY CONSTRUCTION. RE: ELEVATIONS FOR PULL TYPES AND SPECIFIC COMPONENTS. I. VINYL WALL COVERING NO SEAM DOWN MIDDLE OF WALL AND NO OPEN EDGES AT CORNERS. 	GENERATOR STUDIO LLC 1615 BALTIMORE AVE KANSAS CITY, MO 64108 816.333.6527 GENERATORSTUDIO.COM
	FINISH LEGEND	CIVIL ENGINEER
	1-HOUR RATED WALL PER CODE	UHL ENGINEERING INC 7211 W 98TH TERRATE STE 110 OVERLAND PARK, KS 66212 913.385.2670
	CARPET 1	UHLENGINEERING.COM
		MEP ENGINEER ADVANCED CONSULTING ENGINEERS 132 KELLEY DRIVE ROGERS, AR 72756 479.631.1712 EXT 101
	TILE 2	ADVENGINEERS.COM
	LVT 1	SOUTHWIND GROUP 1218 ENERGY DRIVE ABILENE, TX 79602 325.695.1111
	CARPET CPT-01 MANUF: TARKETT PAINT	ARCHITECT:THOMAS JASON PROEBSTLELICENSE NO.A-2002017812
	PATTERN: CACHE TWEEDPT-01BENJAMIN MOORESIZE: 24"X24"COLOR: SUPER WHITE OC-152INSTALLATION: VERTICAL ASHLARLOCATION: FIELD PAINTCOLOR: SHADOW GRIS 42710TYPE: EGGSHELL FOR WALLS; FLAT FOR	OF MIS
	CONTACT: ABBEY HELLAND 816.678.8605 <u>TILE</u> TL-01 MANUF: CROSSVILLE COLOR: SEAWEED 2035-10	THOMAS JASON
	PATTERN: SHADES 2.0 LOCATION: ACCENT SIZE: 12"X24" TYPE: EGGSHELL COLOR: THUNDER UPS	★ PROEBSTLE ★ NUMBER A-2002017812.
	GROUT COLOR: MAPEI IRON PT-03 BENJAMIN MOORE CONTACT: VIRGINIA TILE COLOR: KITTY GRAY 1589 LOCATION: ACCENT	07/03/2024
	TL-02 MANUF: CROSSVILLE PATTERN: SHADES 2.0 SIZE: 12"X24" PT-04 BENJAMIN MOORE	Implot
	COLOR: ASH UPS GROUT COLOR: MAPEI IRON LOCATION: RESTROOM COLOR: SUPER WHITE OC-152 LOCATION: WET WALL TYPE: EPOXY	SEAL
	VINYL FLOORING LVT-01 MANUF: BENTLEY MILLS PATTERN: MEMORY SOLID SURFACE	
	COLOR: CRAFTSMAN 801980 SIZE: 9" X 48" INSTALLATION: RANDOM CONTACT: ALI SKILLING 913.387.9668 SS-01 MANUF: CORIAN COLLECTION: CORIAN QUARTZ COLLECTION: CORIAN QUARTZ CONTACT: KRISTY RIMNE 314.254.6634	
	BASE PLASTIC LAMINATE RB-01 MANUF: JOHNSONITE TYPE: RUBBER BASE - COVE PL-01 MANUF: WILSONART STYLE: MATTE FINISH	LEE'S SUMMIT
	COLOR: WHITE 1573-60 B-01 WOOD BASE PAINTED TO MATCH WALL CONTACT: MANDY BRIDGES 913.484.2691	2070 NW LOWENSTEIN DR
	B-02 MANUF: CROSSVILLE STYLE: MATTE FINISH COLOR: NORTH SEA D90-60 CONTACT: MANDY BRIDGES 913.484.2691	SUITE A LEE'S SUMMIT, MO 64081
	COLOR: ASH LOCATION: RESTROOMS PL-03 - MANUF: WILSONART COLOR: FAWN CYPRESS 8208K-16	
	ACT-01 MANUF: ARMSTRONG STYLE: ULTIMA 24X24 COLOR: WHITE 9/16" GRID	FOR CONSTRUCTION ISSUE DATE: 07.03.2024 REV DESCRIPTION DATE
	WOOD WD-01 - SPECIES: WHITE OAK GRAIN: STRAIGHT GRAIN, HORIZONTAL ORIENTATION	1 CITY COMMENTS #1 07/03/2023
	STAIN: TO MATCH ARCHITECTS SAMPLE <u>VINYL WALLCOVERING</u>	
	WC-01 - MANUF: KOROSEAL WALLTALKERS STYLE: MAG RITE II COLOR: WHITE TRIM: J-CAP CONTACT: AMY NEUSAL 816-728-3971	
	NOTE: FEATHER WALL AS NEEDED FOR MARKERBOARDS TO BE FLAT AT TRANSITION TO J-CAP. TO BE INSTALLED STARTING 30' AFF	
		PROJECT NO. 16014 DRAWN BY: CH
		CHK'D BY: PB SHEET TITLE FINISH PLAN
NORTH		A103

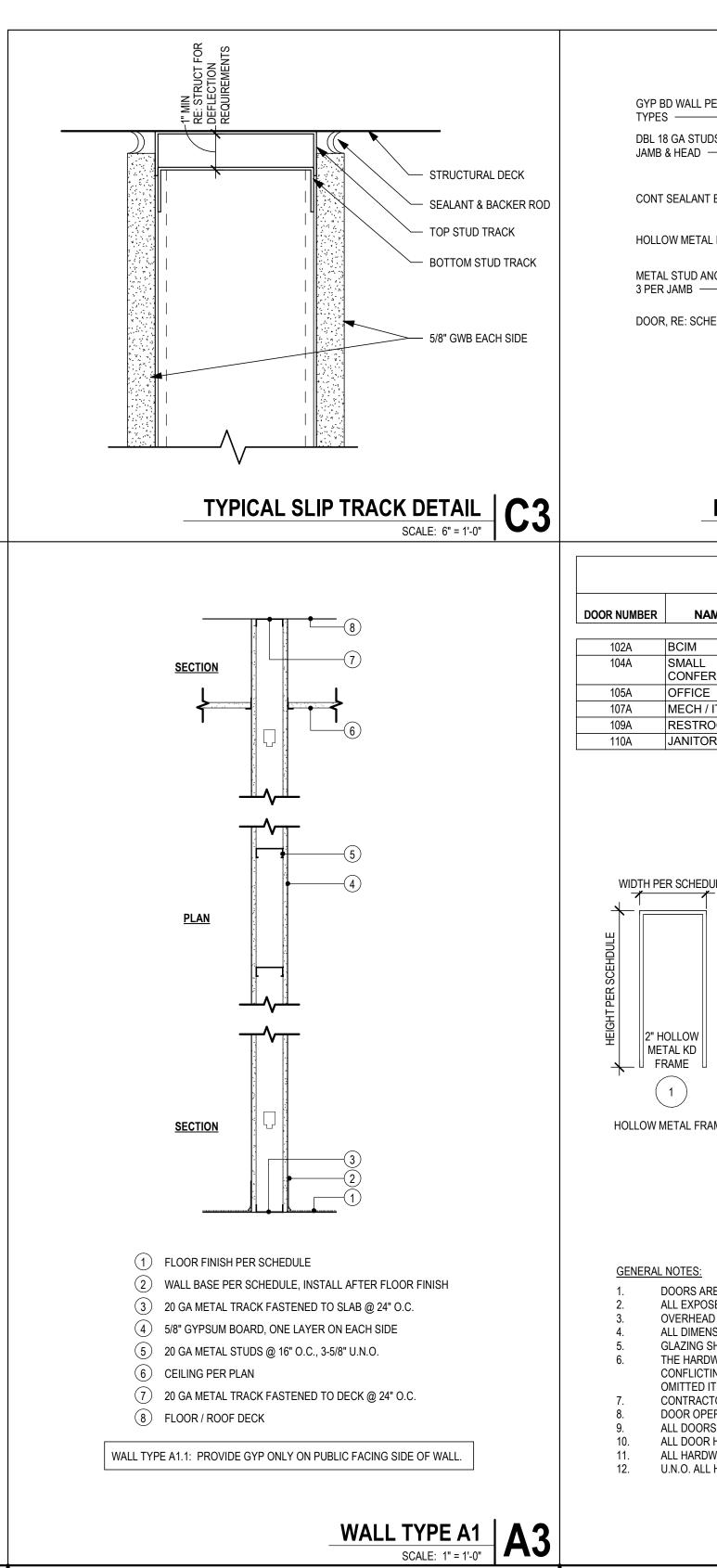
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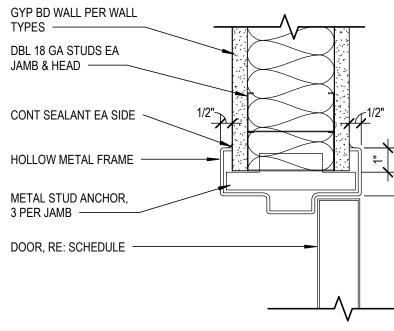
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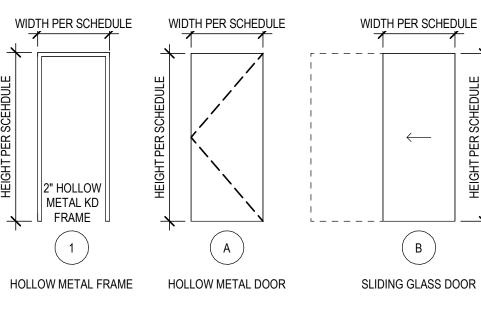






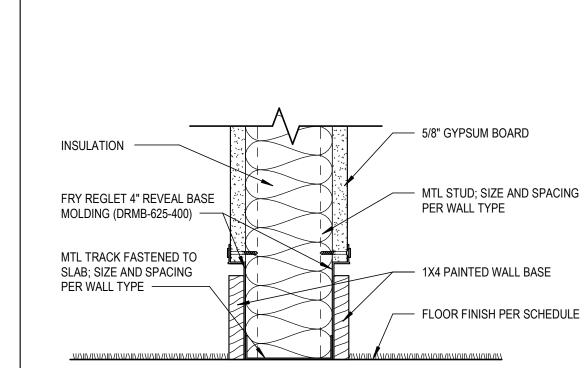
HEAD/JAMP DETAIL @ GYP WALL C2

	HEAD)/JAMP D	ETAIL @	GYP WAL SCALE: 3" = 1				TYPICAL WOOD BASE DETAIL SCALE: 3" = 1'-0"C1
		DO	OR SO	CHEDI	JLE			
DOOR NUMBER	NAME	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	
102A	BCIM	3' - 0"	7' - 10"	В	GLASS	-	-	7
104A	SMALL CONFERENCE	3' - 4 1/2"	7' - 10"	В	GLASS	-	-	
105A	OFFICE	3' - 0"	7' - 10"	В	GLASS	-	-	
107A	MECH / IT	3' - 0"	7' - 0"	A	HM	1	HM	
109A	RESTROOM	3' - 0"	7' - 0"	A	HM	1	HM	
110A	JANITOR	3' - 0"	7' - 0"	A	HM	1	HM	



- DOORS ARE TO HAVE LEVER TYPE HARDWARE, SCHLAGE ND-SERIES OR EQUAL, UNLESS OTHERWISE NOTED
- OVERHEAD CLOSERS INDICATED SHALL BE FURNISHED WITH MAXIMUM OPENING LIMITATION OF 110 DEGREES.
- GLAZING SHALL BE FULLY TEMPERED *T(WHEREINDICATED ON THE DRAWINGS AND REQUIRED TO MEET REQUIREMENTS OF IBC AND AHJ.

- ALL DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE W/O SPECIAL KNOWLEDGE OF USE OF KEY OR KEYCARD. ALL DOOR HARDWARE MUST BE ADA COMPLIANT.
- ALL HARDWARE MUST BE REVIEWED WITH ARCHITECT AND OWNER PRIOR TO ORDER AND INSTALLATION U.N.O. ALL HM DOORS AND FRAMES TO BE PAINTED TO MATCH ADJACENT WALL.



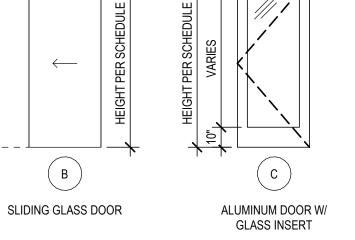
NOTE: DETAIL APPLIES AT WOOD BASE LOCATIONS ONLY. IN AREAS WHERE RUBBER BASE IS SPECIFIED, FRY REGLET + REVEAL NOT REQUIRED.



DOOR SCHEDULE NOTES:

CONTRACTOR TO VERIFY COMPLIANCE WITH OWNERS REQUIREMENTS TO SECURE SPACE PRIOR TO PURCHASE AND/OR INSTALLATION OF HARDWARE.

- PAINT DOOR AND FRAME TO MATCH ADJACENT WALL SURFACE.
- DOOR PULLS WILL LIMIT OPEN WIDTH OF SLIDING DOORS. ADJUST DOOR SIZE AS REQUIRED TO MAINTAIN 3'-0" CLEAR OPENING.



WIDTH PER SCHEDULE

", VARIES

RDWARE	SCHEDULE:
Γ#1	(1) PRIVACY LOCKSET(3) BUTT HINGES(1) WALL STOP(1) OVERHEAD CLOSER
Г #2	(1) STOREROOM LOCKSET (3) VISIBLE HINGES PER EZY JAMB (1) WALL STOP (1) OVERHEAD CLOSER

DOOR & FRAME TYPES AND SCHEDULE SCALE: 1/4" = 1'-0"

SET #3 EXTERIOR STOREFRONT DOOR HARDWARE TO MATCH BUILDING STANDARD. DOOR IS REQUIRED TO HAVE SIGNAGE INDICATING "DOOR IS TO REMAIN UNLOCKED DURING OCCUPANCY"

ALL EXPOSED HARDWARE SHALL BE FINISH 626, SATIN CHROMIUM PLATED, UNLESS OTHERWISE NOTED. VERIFY FINISHES WITH ARCHITECT PRIOR TO ORDERING.

ALL DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING OR FABRICATION.

THE HARDWARE SCHEDULE REPRESENTS THE DESIGN INTENT. THEY ARE A GUIDELINE ONLY AND SHOULD NOT BE CONSIDERED A DETAILED HARDWARE SCHEDULE. DISCREPANCIES, CONFLICTING HARDWARE AND MISSING ITEMS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT WITH CORRECTIONS MADE PRIOR TO THE BIDDING PROCESS AND INSTALLATION. OMITTED ITEMS NOT INCLUDED IN A HARDWARE SET SHOULD BE SCHEDULED WITH THE APPROPRIATE ADDITIONAL HARDWARE REQUIRED FOR PROPER APPLICATION AND FUNCTIONALITY. CONTRACTOR TO COORDINATE KEYING WITH THE OWNER. ALL SPECIAL LOCKING ARRANGEMENTS TO COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE. DOOR OPERATING DEVICES SHALL BE CAPABLE OF OPERATION WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST.

SF

G STUDIO —

OWNER

DICKINSON FINANCIAL CORPORATION 1111 MAIN STREET #1600 KANSAS CITY, MISSOURI 64105 816.472.5244

ARCHITECT

GENERATOR STUDIO LLC 1615 BALTIMORE AVE KANSAS CITY, MO 64108 816.333.6527 GENERATORSTUDIO.COM

CIVIL ENGINEER

UHL ENGINEERING INC 7211 W 98TH TERRATE STE 110 OVERLAND PARK, KS 66212 913.385.2670 UHLENGINEERING.COM

MEP ENGINEER

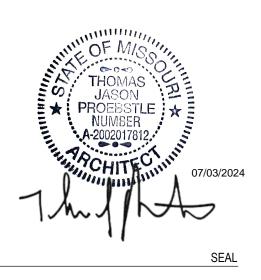
ADVANCED CONSULTING ENGINEERS 132 KELLEY DRIVE ROGERS, AR 72756 479.631.1712 EXT 101 ADVENGINEERS.COM

CONTRACTOR

SOUTHWIND GROUP 1218 ENERGY DRIVE ABILENE, TX 79602 325.695.1111 SOUTHWINDGRP.COM

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	CEN	ISE	Ξ	N	5

THOMAS JASON PROEBSTLE A-2002017812



ACADEMY BANK LEE'S SUMMIT

2070 NW LOWENSTEIN DR SUITE A LEE'S SUMMIT, MO 64081

FOR CONSTRUC	TION 07.03.2024
REV DESCRIPTION	DATE
PROJECT NO.	16014
DRAWN BY: CHK'D BY:	<u>СН</u> РВ
SHEFT TITLE	PD PD
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SCHEDUL	
	All S
DETA	AILS

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	ABBREVIATIONS - MECHANICAL
ABV	ABOVE
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACD	AUTOMATIC CONTROL DAMPER
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTICAL LINING
ARCH	ARCHITECTURAL
ATC	
BD	BOILER BALANCING DAMPER
BDD	BACK DRAFT DAMPER
BMS	BUILDING MANAGEMENT SYSTEM
во	BLANK OFF
BHP	BRAKE HORSE POWER
BTU	BRITISH THERMAL UNIT
CC	COOLING COIL
CD	CEILING DIFFUSER
CFF	CAP FOR FUTURE
CFM	
CG	CEILING GRILLE
СН	CHILLER CLEAN OUT
COMP	COMPRESSOR
CONV	CONVECTOR
CR	CEILING REGISTER
СТ	COOLING TOWER
CU	CONDENSING UNIT
CW	CONDENSER WATER
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
DX	DIRECT EXPANSION
(E)	EXISTING TO REMAIN
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE ELECTRIC CABINET HEATER
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEV	ELEVATOR
EHC	ELECTRIC HEATING COIL
EUH	ELECTRIC UNIT HEATER
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
°F	DEGREES FAHRENHEIT
F	FILTER
FBO	FURNISHED BY OTHERS FLEXIBLE CONNECTION (DUCT OR PIPE)
FC FCC	FIRE CONTROL CENTER
FCU	FAN COLUNIT
FD	FUSIBLE LINK FIRE DAMPER W/ DUCT ACCESS DOOR
FLR	FLOOR
FLA	FULL LOAD AMPS
FPB	FAN POWERED BOX
FPI	FINS PER INCH
FRE	FIRE RATED ENCLOSURE
FSD	COMBINATION FIRE AND SMOKE DAMPER
FT	FEET
FTR	FIN TUBE RADIATOR
GLY	GLYCOL
GPM	GALLONS PER MINUTE
GX	
HC	HEATING COIL
HTP	HEAT PUMP
HP	HORSE POWER HOUR
HRU	HEAT RECOVERY UNIT
HTW	HEATWHEEL
HV	HEATING AND VENTILATING UNIT
HW	HOT WATER
НХ	HEAT EXCHANGER
ID	INSIDE DIMENSION
KW	KILOWATT
KWH	KILOWATT HOURS
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LD	LINEAR DIFFUSER (CEILING, WALL, SILL OR FLOOR)
LRA	LOCK ROTOR AMPS
LWS	LOUVER WITH WIRE SCREEN
LWT	LEAVING WATER TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
МВН	THOUSAND BTU PER HOUR MOTOR CONTROL CENTER

MFS	MAXIMUM FUSE SIZE			
MIN	MINIMUM			
MUA	MAKE UP AIR UNIT			
MOCP	MAXIMUM OVERCURRENT PROTECTION			
(N)	NEW			
NC	NORMALLY CLOSED			
NFA	NET FREE AREA			
NIC	NOT IN THIS CONTRACT			
NK	NECK			
NO	NORMALLY OPEN			
NTS				
OAI	OUTSIDE AIR INTAKE OPPOSED BLADE DAMPER			
OD				
P	PUMP			
PD	PRESSURE DROP			
PHC	PRE-HEAT COIL			
PHX	PLATE HEAT EXCHANGER			
PRV	PRESSURE REDUCING VALVE			
PSI	POUNDS PER SQUARE INCH (GAUGE)			
PSIA	POUNDS PER SQUARE INCH ABSOLUTE			
(R)	EXISTING TO BE RELOCATED			
RA	RETURN AIR			
RF	RETURN FAN			
RH	RELATIVE HUMIDITY			
RHC	REHEAT COIL			
RPM	REVOLUTIONS PER MINUTE			
SA	SUPPLY AIR			
SAD	SEE ARCHITECTURAL DRAWINGS			
SD	SMOKE DAMPER			
SF	SUPPLY FAN			
SED	SEE ELECTRICAL DRAWINGS			
SENS	SENSIBLE			
SM	SHEET METAL			
SP	STATIC PRESSURE			
STP	STAIR PRESSURIZATION SQUARE FEET			
SQFT				
ST	SOUND TRAP SMOKE EXHAUST			
SX TF	TRANSFER FAN			
TRD	TRANSFER DUCT			
TRG	TRANSFER DUCT TRANSFER GRILLE			
ТХ	TOILET EXHAUST			
TYP	TYPICAL			
UH	UNIT HEATER			
UON	UNLESS OTHERWISE NOTED			
VAR	VARIABLE			
VAV	VARIABLE AIR VOLUME			
VD	VOLUME DAMPER			
VFD	VARIABLE FREQUENCY DRIVE			
W/	WITH			
WB	WET BULB			
WG	WATER GAUGE			
WMS	WIRE MESH SCREEN			
WO-SIZE	WALL OPENING - [SIZE]			
(X)	EXISTING TO BE DEMOLISHED			
(300)	CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE			
	PIPING LEGEND			
CWS	CONDENSER WATER SUPPLY			
CHWS	CHILLED WATER SUPPLY			
— HWS —				

REFRIGERANT LIQUID PIPING

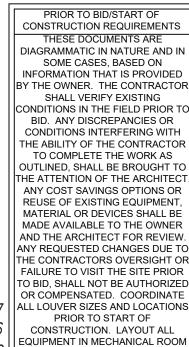
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MECHANICAL LEGEND AND ABBREVIATIONS

PI	PING LEGEND (CONTINUED)		PIPING LEGEND (CONTIN	UED)	DUC	CTWORK LEGEND (CONTINUED)		CONTROLS LEGEND		
T d	REFRIGERANT SUCTION PIPING	<u>۶</u>	DIRT POCKET							
	REFRIGERANT-SAFETY VALVE RELIEF LINE		REFRIGERANT EXPANSION VALVE		└─────			TOTALIZING BTU METER		
→ →	HOT GAS PIPING		VALVE IN VERTICAL MANUAL AIR VENT		<u>≯</u> ⊡⊸}	SLOPING DROP IN DUCTWORK		EMERGENCY BREAK GLASS SWITCH FOR EQUIPMENT SHUT-DOWN		
v	DOMESTIC COLD WATER MAKE-UP	<u>, ↑</u> ,			18x12 18x12	DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE		FLOW MEASURING STATION		
	ARROW INDICATES DIRECTION OF FLOW	<u> </u>	THERMOMETER PIPE SENSOR WELL (THERMOMETER)		<u>نے 18</u>					
	PITCH PIPE DOWN IN DIRECTION OF ARROW	, ° , ° , °	PRESSURE GAUGE AND COCK		<u>твф</u>	ROUND DUCT DIAMETER SIZE (CLEAR INSIDE DIMENSION)		FLOW SWITCH		
	DRAIN LINE	<u>, ₽</u> ,	PRESSURE GAUGE WITH LOOP		<u>}</u> → 18 • →	OVAL DUCT SIZE		CARBON MONOXIDE SENSOR WITH ZONE DESIGNATION		
	PIPE ANCHOR		CENTER LINE				- ① _#	TEMPERATURE SENSOR/THERMOSTAT WITH ZONE OR EQUIPMENT DESIGNATION		
<u> </u>	PIPE GUIDE		HEAT TRACED PIPING PIPE SLEEVE			SIDE, TOP OR BOTTOM DUCT ACCESS DOOR	(H)#	HUMIDISTAT/HUMIDITY SENSOR WITH HUMIDIFIER DESIGNATION		
	EXPANSION COMPENSATOR	∽-¢	BEAM PENETRATION		\$ <u></u> \$	ACOUSTIC LINING IN DUCT (DUCT SIZE		COMBINATION TEMPERATURE/HUMIDITY SENSOR DUCT SMOKE DETECTOR SUPPLIED BY ELECTRICAL		
		<u>} ÷ ÷ →</u> 	PIPE GUIDE PIPE CAP		<u></u>	INDICATES INSIDE DIMENSIONS) RECTANGULAR OR SQUARE TO ROUND OR		TRADE, INSTALLED BY MECHANICAL TRADE STATIC PRESSURE SENSOR WITH DESIGNATION		
⁻_,		ŞI	PIPE BLIND FLANGE			OVAL TRANSITION	- ©#	REFRIGERANT SENSOR WITH DESIGNATION		
	EXPANSION LOOP (SIZE AxB)		DUCTWORK LEGEND			FLEXIBLE CONNECTION				
∎— <u> </u>	FLEXIBLE BALL JOINT EXPANSION COMPENSATOR	16x6 8x6			└──┤	DUCT END/CAP		MISCELLANEOUS		
	CONCENTRIC REDUCER (INCREASER)		DUCT SPLIT WITH SPLIT SIZE			FLEXIBLE DUCT		DIFFERENTIAL PRESSURE SENSOR		
	ECCENTRIC REDUCER (INCREASER)	<u>ل</u>				DUCT COIL WITH ACCESS DOOR		DIFFERENTIAL PRESSURE SWITCH		
	UNION		RADIUS ELBOW					NEW WORK EXISTING WORK		
	CAPPED PIPE WITH SHUT-OFF VALVE		ELBOW WITH TURNING VANES			VOLUME DAMPER IN DUCT		EXISTING WORK TO BE REMOVED POINT OF NEW CONNECTION TO EXISTING WORK		
€ 	"Y" TYPE STRAINER WITH HOSE END					AUTOMATIC CONTROL DAMPER	⊕	OVAL		
	BLOW OFF VALVE		RECTANGULAR BRANCH TAKEOFF WITH		_ <u> </u>	FUSIBLE LINK FIRE DAMPER WITH DUCT	- Ø	DIAMETER UNDERCUT DOOR		
	"Y" TYPE STRAINER		BALANCING DAMPER			ACCESS DOOR				
	BASKET TYPE STRAINER		RECTANGULAR SUPPLY DUCT UP			SMOKE DAMPER WITH DUCT ACCESS DOOR		SECTION DESIGNATION		
	DUPLEX STRAINER					COMBINATION FIRE AND SMOKE DAMPER				
	ELBOW TURNED UP		RECTANGULAR SUPPLY DUCT DOWN		<u>} } } } } }</u>	WITH DUCT ACCESS DOOR	- <u>1</u> <u>M2.1</u>	DETAIL DESIGNATION		
	ELBOW TURNED DOWN					BACK DRAFT DAMPER WITH DUCT ACCESS DOOR	CT 1-1	EQUIPMENT DESIGNATION		
s	BOTTOM PIPE CONNECTION		RECTANGULAR RETURN OR EXHAUST DUCT UP		E	LINEAR DIFFUSER		3-24 TERMINAL THE NUMBER ON THE FLOOR		
					E <u></u>	LINEAR DIFFUSER WITH PLENUM		DESIGNATION FLOOR OR LEVEL		
	TOP PIPE CONNECTION		RECTANGULAR RETURN OR EXHAUST DUCT DOWN			1-WAY BLOW 3-WAY BLOW	<u>CD-1,12x12</u> (550)	Type AIR OUTLET/INLET CD-1,12x12 DEVICE (550) FACE SIZE		
	SLOPED CHANGE IN PIPE ELEVATION	<u>ب</u>	ROUND DUCT, UP			2-WAY BLOW 4-WAY BLOW	-	DESIGNATION CFM TYPE LENGTH & SLOT		
	FLEXIBLE CONNECTION SHUT-OFF VALVE					CEILING DIFFUSER WITH FLEXIBLE DUCT CONNECTION	LD-A,48x1,8 Ø (300)	LINEAR DIFFUSER I SIZE DEVICE DESIGNATION (300) INLET SIZE CFM		
			ROUND DUCT, DOWN			RETURN/EXHAUST REGISTER OR GRILLE		KEYNOTE		
	CALIBRATED BALANCE VALVE				 ©	FLEXIBLE DUCT CONNECTION ROUND CEILING DIFFUSER WITH FLEXIBLE				
	GLOBE VALVE		BEAM PENETRATION			DUCT CONNECTION ROUND CEILING DIFFUSER	SHEET NUMBER	MECHANICAL DRAWING LIST SHEET NAME		
Ţ Ţ	CHECK VALVE		PENETRATION	F	 @	FLOOR SWIRL DIFFUSER	 M-000 ME	CHANICAL LEGEND & ABBREVIATIONS		
	AUTOMATIC THREE-WAY CONTROL VALVE	┝╼╂ ┶┺┺╋	SLOPING RISE IN DUCTWORK			FIRE RATED ENCASED DUCT		CHANICAL FLOOR PLAN & SCHEDULES CHANICAL SPECIFICATIONS		
			<u> </u>	[TRANSFER GRILLES ON BOTH SIDES OF PARTITION OR WALL (SIZE)]			
Ì - I	AUTOMATIC TWO-WAY CONTROL VALVE				WO-SIZE	WALL OPENING ABOVE HUNG CEILING (SIZE)				
	RELIEF VALVE			Γ	$\begin{array}{c} & & \\ & & \\ \hline \\ \hline$	SUPPLY REGISTER WITH AIR OUTLET DEVICE DESIGNATION				
Å Ţ	ANGLE RELIEF VALVE			ŀ		RETURN OR EXHAUST REGISTER OR GRILLE	-			
	PRESSURE REDUCING VALVE (PRV)				ER-C,12x8 (200)	WITH AIR INLET DEVICE DESIGNATION				
	LUBRICATED PLUG VALVE				ACCESS	TERMINAL UNIT WITH/WITHOUT HEATING COIL				
	LOCKSHIELD GLOBE VALVE			,						
	SOLENOID VALVE			1		FAN POWERED TERMINAL UNIT WITH/WITHOUT			Ir	PRIOR TO BID/START OF
	BUTTERFLY VALVE (MANUAL)				<u>└</u> ╘═╡ ╲	HEATING COIL	 1			ONSTRUCTION REQUIREMENTS THESE DOCUMENTS ARE AGRAMMATIC IN NATURE AND IN
	BUTTERFLY VALVE (MOTORIZED)			APF	PLICA	ABLE CODES			IN	SOME CASES, BASED ON NFORMATION THAT IS PROVIDED THE OWNER. THE CONTRACTOR
									COL	SHALL VERIFY EXISTING NDITIONS IN THE FIELD PRIOR TO BID. ANY DISCREPANCIES OR
	BALL VALVE			CODES:					ТН	CONDITIONS INTERFERING WITH HE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS JTLINED, SHALL BE BROUGHT TO
a⊡⊸ a⊡⊒≁	PUMP					ECHANICAL CODE JRISDICTION REQUIREMENTS			THE AI	E ATTENTION OF THE ARCHITECT. NY COST SAVINGS OPTIONS OR EUSE OF EXISTING EQUIPMENT,
. →			l						M. M. AN	IATERIAL OR DEVICES SHALL BE IADE AVAILABLE TO THE OWNER ND THE ARCHITECT FOR REVIEW.
									AN' THE FA	IY REQUESTED CHANGES DUE TO E CONTRACTORS OVERSIGHT OR AILURE TO VISIT THE SITE PRIOR
										BID, SHALL NOT BE AUTHORIZED R COMPENSATED. COORDINATE L LOUVER SIZES AND LOCATIONS PRIOR TO START OF
									$PH 4/9.631.1/12 _{T}$	CONSTRUCTION. LAYOUT ALL QUIPMENT IN MECHANICAL ROOM TO ENSURE PROPER SPACE AND
								OVANCED CONSULTING ENGINEER ECHANICAL ELECTRICAL INDUSTRIAL	S FX 479.631.1854	CLEARANCES ARE AVAILABLE. NTACT ARCHITECT IMMEDIATELY WITH ANY ISSUES.

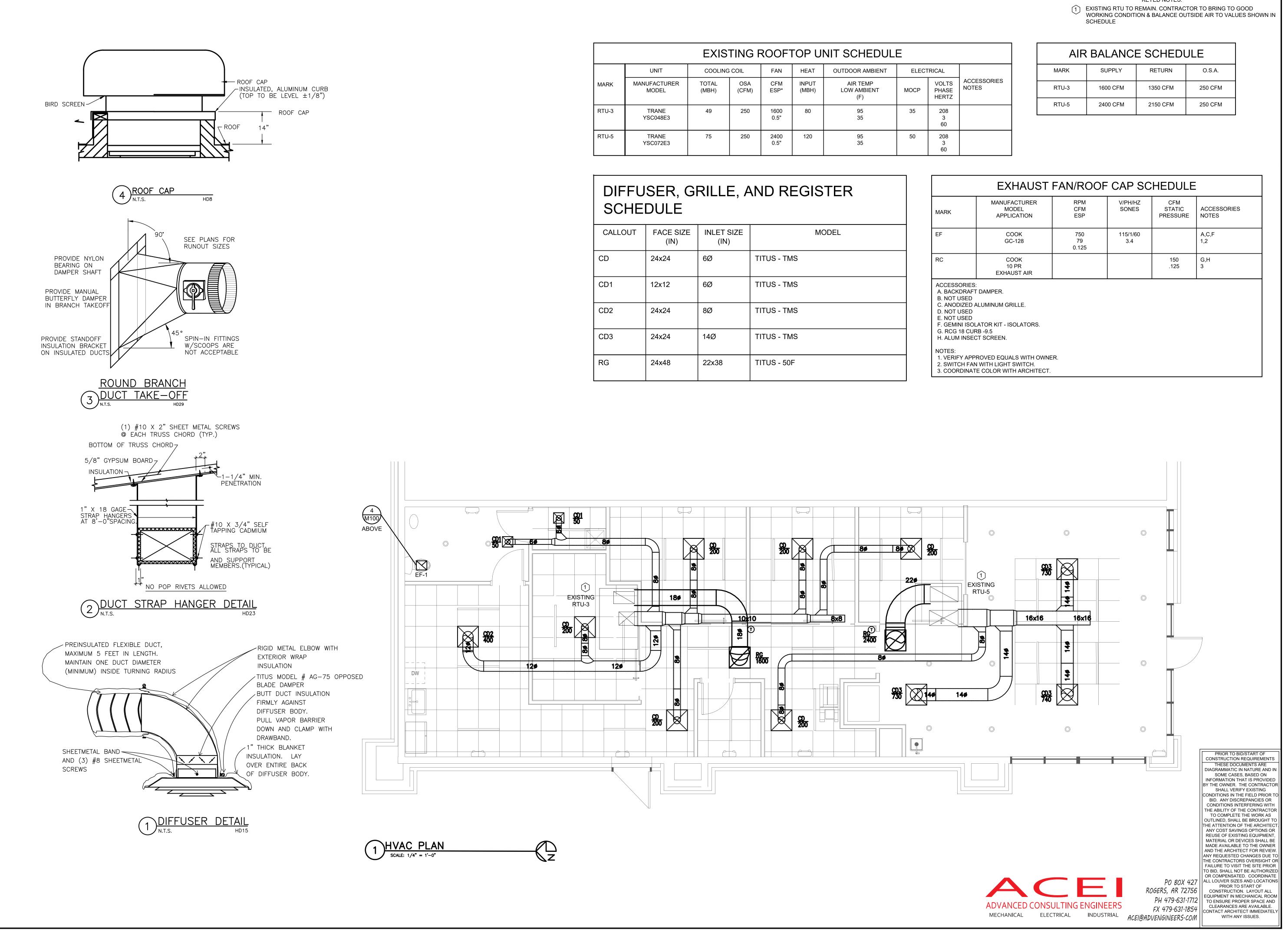
	CONTROLS LEGEND					
ų J	TOTALIZING BTU METER					
	EMERGENCY BREAK GLASS SWITCH FOR EQUIPMENT SHUT-DOWN					
Ψ ~	FLOW MEASURING STATION					
Щ Т	FLOW SWITCH					
	CARBON MONOXIDE SENSOR WITH ZONE DESIGNATION					
	CARBON DIOXIDE SENSOR WITH ZONE DESIGNATION					
	TEMPERATURE SENSOR/THERMOSTAT WITH ZONE OR EQUIPMENT DESIGNATION					
	HUMIDISTAT/HUMIDITY SENSOR WITH HUMIDIFIER DESIGNATION					
	COMBINATION TEMPERATURE/HUMIDITY SENSOR					
	DUCT SMOKE DETECTOR SUPPLIED BY ELECTRICAL TRADE, INSTALLED BY MECHANICAL TRADE					
	STATIC PRESSURE SENSOR WITH DESIGNATION					
	REFRIGERANT SENSOR WITH DESIGNATION					

R	SHEET NAME
	MECHANICAL LEGEND & ABBREVIATIONS
	MECHANICAL FLOOR PLAN & SCHEDULES





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ARCHITECT: MIKE KRESS LICENSE NO. 5715
DANNY EUGENE DOSS NUMBER E-21634 PROFESS 10 MULTURE SEAL
ACADEMY BANK BRANCH: LEE'S SUMMIT 2070 NW Lowenstein Dr Suite A LEE'S SUMMIT, MO 64081
PERMIT SET ISSUE DATE: 05.30.24 REV DESCRIPTION DATE
PROJECT NO. 16014 DRAWN BY:
N-000



EXISTING ROOFTOP UNIT SCHEDULE									
	UNIT COOLING COIL		G COIL	FAN	HEAT	OUTDOOR AMBIENT	ELECTRICAL		
MARK	MANUFACTURER MODEL	TOTAL (MBH)	OSA (CFM)	CFM ESP*	INPUT (MBH)	AIR TEMP LOW AMBIENT (F)	МОСР	VOLTS PHASE HERTZ	ACCESSORIES NOTES
RTU-3	TRANE YSC048E3	49	250	1600 0.5"	80	95 35	35	208 3 60	
RTU-5	TRANE YSC072E3	75	250	2400 0.5"	120	95 35	50	208 3 60	

+				¬
DIFFU SCHE	·	RILLE, A	AND REGISTER	MARK
CALLOUT	FACE SIZE (IN)	INLET SIZE (IN)	MODEL	EF
CD	24x24	6Ø	TITUS - TMS	RC
CD1	12x12	6Ø	TITUS - TMS	ACCESSORIES A. BACKDRAF B. NOT USED
CD2	24x24	8Ø	TITUS - TMS	C. ANODIZED D. NOT USED E. NOT USED F. GEMINI ISO
CD3	24x24	14Ø	TITUS - TMS	G. RCG 18 CU H. ALUM INSE NOTES:
RG	24x48	22x38	TITUS - 50F	1. VERIFY APF 2. SWITCH FAI 3. COORDINAT

KEYED NOTES:

AIR BALANCE SCHEDULE							
MARK	SUPPLY	RETURN	O.S.A.				
RTU-3	1600 CFM	1350 CFM	250 CFM				
RTU-5	2400 CFM	2150 CFM	250 CFM				

APPLICATION	ESP	001120	PRESSURE	NOTES
COOK GC-128	750 79 0.125	115/1/60 3.4		A,C,F 1,2
COOK 10 PR EXHAUST AIR			150 .125	G,H 3

OWNER DICKINSON FINANCIAL CORPORATION 1111 MAIN STREET #1600 KANSAS CITY, MO 64105 816.472.5244 ARCHITECT GENERATOR STUDIO LLC 1615 BALTIMORE AVE KANSAS CITY, MO 64108 816.333.6527 GENERATORSTUDIO.COM CONTRACTOR SOUTHWIND GROUP 1218 ENERGY DRIVE ABILENE, TX 79602 325.695.1111 SOUTHWINDGRP.COM ARCHITECT: MIKE KRESS LICENSE NO. 5715 TE OF MISS DANNY E-21634 SEAL ACADEMY BANK **BRANCH**: LEE'S SUMMIT 2070 NW Lowenstein Dr Suite A LEE'S SUMMIT, MO 64081 **PERMIT SET ISSUE DATE:** 05.30.24 DATE REV DESCRIPTION 16014 PROJECT NO. DRAWN BY: CHK'D BY: SHEET TITLE M-100

SECTION 15000

COMMON REQUIREMENTS FOR MECHANICAL WORK:

1.0 GENERAL

- 1.01. SCOPE OF DIVISION:
 - A. WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING MECHANICAL INSTALLATION IN ACCORDANCE WITH REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE AND NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).

1.02 DRAWINGS:

- A. ARCHITECTURAL AND STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER MECHANICAL DRAWINGS WITH REFERENCE TO THE BUILDING CONSTRUCTION. MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND EXTENT OF WORK. EXACT LOCATIONS AND ARRANGEMENTS OF MATERIALS AND EQUIPMENT SHALL BE DETERMINED. WITH THE APPROVAL OF THE ENGINEER, AS WORK PROGRESSES TO CONFORM IN THE BEST POSSIBLE MANNER WITH THE SURROUNDINGS AND WITH THE ADJOINING WORK OF OTHER TRADES.
- 1.03 COORDINATION OF WORK:
 - A. COORDINATE ALL WORK, PRIOR TO INSTALLATION WITH WORK OF OTHER TRADES AND WITH ARCHITECTURAL AND STRUCTURAL FEATURES TO PRECLUDE INTERFERENCE'S BETWEEN THE WORK OF DIFFERENT TRADES AND TO INSURE NECESSARY CLEARANCES AT CROSSOVERS AND EQUIPMENT.
- 1.04 SHOP DRAWINGS:
 - A. SUBMIT TO ENGINEER FOR APPROVAL BEFORE COMMENCING WORK, SHOP DRAWINGS FOR ALL MECHANICAL MATERIALS AND EQUIPMENT TO BE PROVIDED.
 - B. PRESENT DATA IN DETAIL FOUAL TO OR GREATER THAN THAT GIVEN IN ITEM SPECIFICATIONS AND INCLUDED ALL WEIGHTS, DEFLECTIONS, SPEEDS, VELOCITIES, PRESSURE DROPS, OPERATING TEMPERATURES, OPERATING CURVES, TEMPERATURE RANGES, SOUND RATINGS, DIMENSIONS, SIZES, MANUFACTURERS' NAMES, MODEL NUMBERS, TYPES OF MATERIAL USED, OPERATING PRESSURES, FULL LOAD AMPERAGES, STARTING AMPERAGES, FOULING FACTORS, CAPACITIES, SET POINTS, CHEMICAL COMPOSITIONS, CERTIFICATIONS, AND ENDORSEMENTS, OPERATING VOLTAGES, THICKNESS', GAUGES AND ALL OTHER RELATED.

1.05 RECORD DRAWINGS:

- A. MAINTAIN ONE EXTRA SET OF BLACK-LINE, WHITE PRINT DRAWINGS FOR USE AS RECORD DRAWINGS. RECORDS SHALL BE KEPT DAILY, USING COLORED PENCIL. AS THE WORK IS COMPLETED, RELEVANT INFORMATION SHALL BE TRANSFERRED TO A REPRODUCIBLE SET, AND COPIES MADE SHALL BE GIVEN TO THE ENGINEER.
- 1.06 FEES AND PERMIT:
 - A. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, INSPECTIONS, AND APPROVALS AS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION.

2.0 PRODUCTS

2.01 GENERAL;

- A. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT.
- B. EQUIPMENT AND MATERIALS SHALL BE PRODUCTS WHICH WILL MEET WITH THE ACCEPTANCE OF THE AGENCY INSPECTING THE WORK. WHERE ACCEPTANCE IS CONTINGENT UPON HAVING THE PRODUCTS EXAMINED. TESTED. AND CERTIFIED BY UNDERWRITERS OR OTHER RECOGNIZED TESTING LABORATORY, THE PRODUCT SHALL BE SO EXAMINED, TESTED, AND CERTIFIED.

2.02 MOTORS:

- UNLESS SPECIFICALLY SPECIFIED OTHERWISE IN THE SECTION COVERING THE DRIVEN EQUIPMENT (OR THE EQUIPMENT DRIVES). MOTORS SHALL COMPLY WITH THE FOLLOWING:
- A. THREE PHASE:
- NEMA DESIGN B, THREE-PHASE, SQUIRREL CAGE INDUCTION TYPE DESIGNED FOR 1800 RPM SYNCHRONOUS SPEED FOR OPERATION IN 40 DEGREE C AMBIENT AT 1.15 SERVICE FACTOR AT CONSTANT SPEED ON THE SCHEDULED VOLTAGE. MOTORS SHALL BE INSULATED WITH CLASS B INSULATION MATERIAL AND SHALL BE CAST IRON, DRIP PROOF, HORIZONTAL FOOT MOUNTED TYPE WITH BALL BEARINGS. TWO SPEED MOTORS SHALL BE PROVIDED AS SCHEDULED AND SHALL BE TWO TYPE.
- B. SCHEDULED HORSEPOWER: THE HORSEPOWER SCHEDULED OR SPECIFIED ARE THOSE NOMINAL SIZES ESTIMATED TO BE REQUIRED BY THE EQUIPMENT WHEN OPERATING AT SPECIFIED DUTIES AND EFFICIENCIES. IF THE ACTUAL HORSEPOWER FOR THE EQUIPMENT FURNISHED DIFFERS FROM THAT SPECIFIED OR SHOWN ON THE DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT PROPER SIZE FEEDERS, BREAKERS, STARTERS, ETC.. ARE PROVIDED AT NO CHANGE IN CONTRACT PRICE.

SECTION 15005

INSTRUCTIONS AND MAINTENANCE MANUALS

- 1.0 GENERAL
- 1.01. INSTRUCTIONS:
 - A. PROVIDE COMPLETE WRITTEN AND VERBAL OPERATING AND MAINTENANCE INSTRUCTION TO THE OWNER FOR ALL MECHANICAL SYSTEMS.
- 2.02 DOCUMENTATION:

PROVIDE TWO (2) INSTRUCTIONS AND MAINTENANCE MANUALS, EACH COMPLETE AS FOLLOWS:

- A. HARDBACK THREE RING LOOSE LEAF BINDERS.
- B. TITLE SHEET WITH JOB NAME, CONTRACTOR'S SUBCONTRACTOR'S CONTROL SUBCONTRACTOR AND RELATED CONTRACTOR'S OR MATERIAL SUPPLIERS NAMES, ADDRESSES AND PHONE NUMBERS.
- C. INDEX OF CONTENTS.
- D. A SIGNED COPY OF ACKNOWLEDGMENT OF INSTRUCTIONS TO THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. TWO ADDITIONAL COPIES OF THE SIGNED ACKNOWLEDGMENT SHALL BE SENT DIRECTLY TO THE ENGINEER AS SOON AS POSSIBLE AFTER RECEIPT.
- E. TYPE WRITTEN OPERATING INSTRUCTIONS FOR THE OWNER'S PERSONNEL DESCRIBING THE FOLLOWING FOR EACH PIECE OF EQUIPMENT AND SYSTEMS:
 - 1. HOW TO START AND STOP EACH PIECE OF EQUIPMENT.
 - 2. HOW TO SET EQUIPMENT AND SYSTEMS FOR NORMAL OPERATION. 3. NORMAL RESTARTING PROCEDURES BEFORE CONTACTING THE SERVICE CONTRACTOR.
 - 4. COMPLETE DESCRIPTION OF FUNCTIONS AND OPERATIONS OF EACH PIECE OF EQUIPMENT INCLUDING DESCRIPTION OF HOW EQUIPMENT OPERATES IN CONJUNCTION
 - WITH AUTOMATIC CONTROL SYSTEMS. 5. INSTRUCTIONS FOR CLEANING, OILING, GREASING, FUELING, AND SIMILAR TASKS.

SECTION 15005 INSULATION: THERMAL

1.0 GENERAL 1.01. SCOPE:

ITEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.

1.02 NFPA 90A:

2.0 PRODUCTS

2.01 INSULATION MATERIALS, GENERAL: INSULATION MATERIALS SHALL INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO THE FOLLOWING:

2.02 DUCTWORK INSULATION MATERIALS:

- A. PRODUCTS SHALL NOT CONTAIN ASBESTOS, LEAD, MERCURY, OR MERCURY COMPOUNDS
- B. PRODUCTS THAT COME IN CONTACT WITH STAINLESS STEEL SHALL HAVE LEACHABLE CHLORIDE
- C. INSULATION FOR USE ON AUSTENTIC STAINLESS STEEL SHALL BE QUALIFIED AS ACCEPTABLE ACCORDING TO ASTM C 795
- PROCESS
- RIGID. HERMETICALLY SEALED CELLS.
- F. MINERAL-FIBER BLANKET INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A

3.0 EXECUTION 3.01 DUCTWORK:

- SENSITIVE TAPE.

SECTION 15800

AIR DISTRIBUTION EQUIPMENT

1.0 GENERAL

1.01 SCOPE:

SPECIFIED HEREIN FOR A COMPLETE AND OPERABLE SYSTEM.

- 1.02 RELATION TO OTHER WORK:

1.03 DESIGN CONDITIONS:

- IN THE AIR DEVICE SCHEDULE.
- W.G. STATIC.
- C. GUARANTEE: AIR DISTRIBUTION EQUIPMENT SHALL BE GUARANTEED BY THE CLOSER THAN 6 INCHES FROM A WALL SURFACE.
- 1.04 MANUFACTURER:

1.05 APPEARANCE:

ARCHITECT PRIOR TO DEVICE FABRICATION.

2.0 PRODUCTS

2.01 CEILING MOUNTED CONDITIONED AIR SUPPLY DIFFUSERS, RETURN AIR AND EXHAUST AIR REGISTERS.

- DEVICE.
- B. SPONGE RUBBER GASKETS.
- C. ALUMINUM OR STEEL, AS SPECIFIED.
- D. COMPANION ADJUSTABLE VOLUME DAMPERS

PROVIDE LABOR AND MATERIALS TO INSULATE EQUIPMENT, PIPING AND MISCELLANEOUS

ALL MATERIALS AND ADHESIVES USED IN OR ON DUCTWORK SHALL CONFORM TO THE REQUIREMENTS OF NFPA 90A AS TO FLAME SPREAD AND SMOKE DEVELOPED RATINGS.

CONTENT OF LESS THAN 50 PPM WHEN TESTED ACCORDING TO ASTM C 871

D. FOAM INSULATION SHALL NOT USE CFC OR HCFC BLOWING AGENTS IN THE MANUFACTURING

E. CELLULAR GLASS: INORGANIC, INCOMBUSTIBLE, FOAMED OR CELLULATED GLASS WITH ANNEALED,

THERMOSETTING RESIN. COMPLY WITH ASTM C 553 TYPE II AND ASTM C 1290, TYPE I.

A. A MEDIUM AND LOW PRESSURE INTERIOR: ALL NEW SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK BE INSULATED EXTERNALLY WITH FIBERGLASS BLANKET WRAP. WHERE DUCT WIDTH EXCEEDS TWENTY-FOUR INCHES, THE INSULATION SHALL BE ADDITIONALLY SECURED TO THE BOTTOM OF THE DUCT USING MECHANICAL FASTENERS SPACED ONE FOOT (1') ON CENTER. INSULATION SHALL BE APPLIED WITH EDGES TIGHTLY BUTTED, AND ALL JOINTS AND BREAKS IN THE VAPOR BARRIER SEALED USING PRESSURE

B. DYNAMICALLY BALANCED, DRAW THROUGH IN THE VERTICAL DISCHARGE POSITION.

A. PROVIDED ALL AIR DISTRIBUTION DEVICES AS INDICATED ON THE DRAWINGS AND AS

A. COORDINATE WITH WORK OF THE CEILING, DRYWALL, AND PLASTERING TRADES AS REQUIRED TO INSURE AN ORDERLY PROGRESSION OF WORK AND A FIRST CLASS FINISHED SYSTEM WITH RESPECT TO PLACEMENT, ALIGNMENT, FINISH, GENERAL FIT, AND ABSENCE OF CONFLICT WITH LIGHTING SYSTEMS AND FIRE PROTECTION SYSTEMS.

A. ACOUSTICAL: NOISE PRODUCED AT EACH DIFFUSER, REGISTER, GRILLE, OR OTHER AIR DISTRIBUTION DEVICE SHALL NOT EXCEED A NOISE CRITERIA LEVEL OF THE NC SHOWN

B. PRESSURE DROP ACROSS ANY AIR DISTRIBUTION DEVICE SHALL NOT EXCEED 0.03 IN

MANUFACTURER TO OPERATE WITHOUT EXCESSIVE NOISE AND WITH VELOCITIES IN THE FIVE FOOT OCCUPANCY ZONE, WHEN HANDLING AIR WITH TEMPERATURE DIFFERENTIALS AS HIGH AS 25 DEGREES, NOT TO EXCEED 30 FPM AT 2 DEGREE DIFFERENCE, 50 FPM AT 1-1/2 DEGREE DIFFERENCE, OR 75 FPM AT A 1 DEGREE DIFFERENCE WHEN OPERATING WITH AN AVERAGE 75 DEGREE ROOM TEMPERATURE AND MEASURE NO

A. TITUS, PRICE, METAL AIR, OR APPROVED EQUAL. MANUFACTURERS STYLE AND SERIES NUMBERS INDICATED ARE EXAMPLES OF PRODUCTS TO BE PROVIDED.

A. EACH AIR DISTRIBUTION DEVICE WHICH HAS A PORTION THEREOF (FRAME, CORE, ET.) EXPOSED TO VIEW IN THE FINISHED AREA SHALL HAVE A FACTORY APPLIED FINISH WHICH MATCHES AND IS COMPATIBLE WITH THE COLOR OF THE SURROUNDING SURFACES ON WHICH THE DEVICE IS INSTALLED. COLORS MUST BE APPROVED BY

A. DESIGNATED ON DRAWINGS BY THE MANNER OF INDICATED SYSTEM FUNCTION FOR THE

3.0 I	EXECUTION
3.01	GENERAL:

A. INSTALL NEATLY WHERE INDICATED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH SMACNA RECOMMENDATIONS AND AS OTHERWISE INDICATED.

B. PROPERLY TEST, BALANCE AND ADJUST TO PRODUCE QUIET, DRAFTLESS OPERATING TO BEST DEGREE POSSIBLE

3.02 SQUARE AIR DEVICES:

١.	WHERE DIFFUSERS ARE LAY IN TYPE, THEY SHALL BE SUPPORTED BY THE INVERTED T
	BAR SUSPENSION SYSTEM, BUT ALL DUCTS CONNECTED THERETO SHALL BE
	SUPPORTED INDEPENDENTLY OF THE CEILING AS SPECIFIED UNDER SECTION ENTITLED
	"DUCTWORK". SURFACE MOUNTED DIFFUSERS SHALL BE SUPPORTED BY THE DUCT
	RUN OUTS OR DROPS WHERE SHEET METAL DUCTS ARE INDICATED AND BY SEPARATE
	HANGERS WHERE FLEX RUN OUTS ARE INDICATED. ALL RECTANGULAR CEILING
	DIFFUSERS SHALL BE INSTALLED WITH THEIR LINES PARALLEL AND PERPENDICULAR TO
	THE BUILDING LINE AND PROPERLY ALIGNED WITH CEILING.

SECTION 15850

DUCTWORK - SHEET METAL

1.0 GENERAL:

1.01 SCOPE:

A. PROVIDE COMPLETE DUCT SYSTEMS AS INDICATED. SYSTEMS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: OUTSIDE AIR, EXHAUST AIR, AND AIR CONDITIONING SUPPLY AND RETURN AIR DUCT SYSTEMS AS SHOWN ON DRAWINGS. DRAWING SCALES PROHIBIT THE INDICATION OF ALL OFFSETS, FITTINGS, AND LIKE ITEMS:

HOWEVER, THESE ITEMS SHALL BE INSTALLED AS REQUIRED FOR THE ACTUAL PROJECT CONDITIONS AT NO CHANGE IN CONTRACT PRICE.

1.02 SHOP DRAWINGS:

A. REFER TO SECTION ENTITLED "COMMON REQUIREMENTS FOR MECHANICAL WORK". INCLUDE COMPLETE DATA FOR FLEXIBLE DUCT, FLEXIBLE CONNECTORS, TURNING VANES, MANUAL VOLUME DAMPERS, ACCESS DOORS, FLEXIBLE CONNECTORS, MANUAL VOLUME DAMPERS AND ADHESIVES.

1.03 DEFINITIONS:

- A. "SMACNA" MEANS "SHEET METAL AND AIR CONDITION CONTRACTORS NATIONAL ASSOCIATION, INC."
- B. LOW PRESSURE DUCTWORK: ANY AND ALL DUCTWORK CONVEYING AIR OR OTHER GASES AT VELOCITIES LESS THAN 2000 FPM AND STATIC PRESSURE LESS THAN 2.0 INCHES W.G. THIS DUCTWORK MAY ALSO BE REFERRED TO IN THESE SPECIFICATIONS AS "LOW VELOCITY DUCTWORK". SMACNA "HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE," THIRD EDITION 2005, SHALL GOVERN CONSTRUCTION OF THIS DUCTWORK UNLESS OTHERWISE SPECIFIED. CONSTRUCT DUCT IN ACCORDANCE THERE WITH IN.

2.0 PRODUCTS

2.01 LOW PRESSURE SHEET METAL DUCTWORK:

- SYSTEMS OPERATING AT TWO INCHES OF WATER STATIC PRESSURE OR LESS, SHALL UNLESS SPECIFICALLY SPECIFIED OTHERWISE, CONFORM TO THE FOLLOWING **REQUIREMENTS:**
- A. MATERIAL: PRIME QUALITY FORTY-EIGHT INCH WIDE, TIGHT COAT GALVANIZED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM 526.
- REINFORCING, CROSS BREAKING, SEAMS, JOINTS: BE IN ACCORDANCE WITH LATEST SMACNA CONSTRUCTION STANDARD FOR LOW PRESSURE SHEET METAL DUCT.
- 2.02 LOW PRESSURE ROUND DUCTWORK:
- A. DUCT SHALL BE MADE USING GALVANIZED STEEL AS PER ASTM A-527- G-90 WITH LONGITUDINAL SNAP-LOCK SEAMS.

2.03 FLEXIBLE DUCTS:

A. FLEXIBLE DUCT SHALL CONSIST OF SPIRAL WOUND HELIX COIL WITH TRILAMINATE INNER FABRIC. CORE SHALL BE COVERED WITH FACTORY APPLIED ON INCH. ONE POUND PER CUBIC FOOT FIBERGLASS INSULATION OF 0.23 THERMAL CONDUCTANCE SHEATHED IN A SEAMLESS EXTERIOR CLASS 1 VAPOR BARRIER JACKET REINFORCED ALUMINUM FOIL METALIZED JACKET. CONNECTIONS SHALL BE MADE USING RECTANGULAR TO ROUND BRANCH TAKE OFFS WITH 45 DEGREE ENTRY. DUCT SHALL BE NFPA 90A, CLASS 1 (UL 181), FLAME SPREAD LESS THAN 25 AND SMOKE DEVELOPED LESS THAN 50. PROVIDE IN FACTORY FINISHED LENGTHS NOT IN EXCESS OF 6'-O" TO MAKE SUITABLE CONNECTIONS WITH MINIMUM PRESSURE DROP WITH MANUAL BUTTERFLY DAMPER AT CONNECTION TO MAIN DUCT BRANCH.

1. PROVIDED WHERE AIR HANDLERS, FANS, AND BLOWERS CONNECT TO DUCTWORK WHEN NOT INTERNALLY ISOLATED. 2. AT LEAST 4 INCHES LONG.

1. PROVIDE IN ALL ELBOWS, BENDS AND TEES OF ALL LOW VELOCITY SUPPLY AIR DUCTS WHETHER OR NOT SHOWN IN DETAIL. PROVIDE IN ALL ELBOWS, BENDS AND TEES OF ALL OTHER LOW VELOCITY DUCTS WHERE PORTIONS OF SUCH DUCTS CONVEY AIR AT GREATER THAN 700 FPM AVERAGE VELOCITY. ADEQUATE RIGIDITY AND STRENGTH TO BE COMPLETE FLUTTER-PROOF; PROPERLY DESIGNED; PERMANENTLY FIXED TYPE. ALUMINUM STEEL WITH CORROSION RESISTANT COATING, OR GALVANIZED STEEL. AIR FOIL TYPE IN ALL MITERED ELBOWS. MITERED BENDS AND MITERED TEES. AIR FOIL TYPE MUST BE MANUFACTURED BY TITUS, TUTTLE & BAILEY, ANEMOSTAT, WATERLOO, METAL AIR, BARBER COLEMAN, "AIR TURNS", TUTTLE & BAILEY "DUCT URNS", OR DURA DYNE "VR" WITH 24 GAUGE RAILS AND HOLLOW VANES.

(OTHER THAN THOSE SPECIFIED AS BEING INTEGRAL WITH EACH REGISTER, DIFFUSER AND OTHER AIR OUTLET OR INLET):

3.0 EXECUTION 3.01 GENERAL:

2.04 LOW PRESSURE DUCT SYSTEM ACCESSORIES:

A. GENERAL:

1. PROVIDE ALL NECESSARY DUCT SYSTEM ACCESSORIES TO ASSURE PROPER BALANCE, QUIET AND DRAFTLESS DISTRIBUTION AND CONVEYANCE, AND MINIMIZATION OF TURBULENCE, NOISE AND PRESSURE DROP FOR SUPPLY, RETURN, EXHAUST AND VENTILATION AIR QUANTITIES INDICATED.

B. FLEXIBLE DUCT CONNECTIONS:

3. CONNECTED ON EACH SIDE TO METAL (METAL DUCTWORK, AIR HANDLING APPARATUS, OR HEAVY GAUGE STEEL SLEEVES).

C. LOW PRESSURE METAL TURNING VANES:

D. MANUAL VOLUME DAMPERS:

- 1. PROVIDE WHERE INDICATED IN THE COMPLETE AIR DISTRIBUTION SYSTEM(S) (INCLUDING DUCTWORK RETURN AIR PLENUMS, ETC.) TO ALLOW COMPLETE BALANCING OF THE AIR SUPPLY, RETURN, VENTILATION AND EXHAUST SYSTEM(S).
- 2. OPPOSED BLADE TYPE.
- 3. PROVIDED SO THAT ALL DAMPER ADJUSTMENTS CAN BE MADE FROM OUTSIDE THE COMPLETED DUCTWORK WITHOUT NECESSITY FOR PUNCTURING OR OTHERWISE PENETRATING DUCTWORK AND/OR IT'S VAPOR BARRIER.

- A. CONSTRUCT ALL DUCTWORK AND ACCESSORIES IN ACCORDANCE WITH THE LATEST INDICATED EDITIONS OF APPLICABLE SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION CONSTRUCTION STANDARDS.
- B. STREAMLINE ALL DUCTWORK TO THE FULL EXTENT PRACTICAL AND EQUIP WITH PROPER AND ADEQUATE DEVICES TO ASSURE PROPER BALANCE AND QUIET DRAFTLESS DISTRIBUTION OF INDICATED AIR QUANTITIES.
- C. PROTECT ALL DUCTWORK AND SYSTEM ACCESSORIES FROM DAMAGE DURING CONSTRUCTION UNTIL ARCHITECT'S FINAL ACCEPTANCE OF PROJECT.
- D. PRIOR TO DUCTWORK FABRICATION, VERIFY IF ALL DUCTWORK AS DIMENSIONED AND GENERALLY SHOWN WILL SATISFACTORILY FIT ALLOCATED SPACES. TAKE PRECAUTIONS TO AVOID SPACE INTERFERENCE WITH BEAMS, COLUMNS, JOISTS, PIPES, LIGHTS, CONDUIT, OTHER DUCTS, EQUIPMENT, ETC. NOTIFY ARCHITECT IF ANY SPATIAL CONFLICTS EXIST AND THEN OBTAIN ARCHITECT'S APPROVAL OF NECESSARY ROUTING. MAKE ANY SUCH NECESSARY REVISIONS WHICH ARE MINOR AT NO ADDITIONAL COST.
- E. CAREFULLY CORRELATE ALL DUCT CONNECTIONS TO AIR HANDLING UNITS AND FANS TO PROVIDE PROPER CONNECTIONS, ELBOWS, AND BENDS WHICH MINIMIZE NOISE AND PRESSURE DROP.
- F. PROPERLY SUSPEND ALL DUCTWORK SO THAT NO OBJECTIONABLE CONDITIONS RESULT (SUCH AS VIBRATION, SAGGING, ETC.)
- G. INSTALL ALL FLEXIBLE ROUND DUCTS WITHOUT KINKS OR SIMILAR OBSTRUCTIONS SO THAT PRESSURE DROP IS MINIMIZED. CUT AND REMOVE EXCESS LENGTHS AS NECESSARY.
- H. INSTALL HORIZONTAL RIGID DUCTWORK AS HIGH AS PRACTICAL ABOVE SUSPENDED CEILINGS SO THAT MOVABLE LIGHT FIXTURES MAY BE RELOCATED WITHOUT INTERFERENCE TO MEET ANY FUTURE PARTITION RELOCATION REQUIREMENTS.

3.02 HANGERS AND SUPPORTS:

- A. GENERAL: COMPLY WITH LATEST APPLICABLE SMACNA CONSTRUCTION STANDARDS.
- B. FASTENERS: SECURE HANGERS TO STEEL BEAMS OR METAL DECK WITH BEAM CLAMPS TO DROP THROUGH CONNECTIONS FROM METAL OR CONCRETE DECK. REFER TO THE REQUIREMENTS OF THE SECTION ENTITLED "COMMON REQUIREMENTS FOR MECHANICAL WORK".

3.03 INSULATED DUCT:

A. WHERE DUCTS WILL BE INSULATED. MAKE PROVISION FOR NEAT INSULATION FINISH AROUND DAMPER OPERATING QUADRANTS, SPLITTER ADJUSTMENT CLAMPS, ACCESS DOORS, AND SIMILAR OPERATING DEVICES. A METAL COLLAR EQUIVALENT IN DEPTH TO INSULATION THICKNESS AND OF SUITABLE SIZE TO WHICH INSULATION MAY BE FINISHED SHALL BE MOUNTED ON DUCT. PRIOR TO BID/START OF



MECHANICAL ELECTRICAL INDUSTRIAL ACEI@ADVENGINEERS.COM

BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTO TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT 1 THE ATTENTION OF THE ARCHITEC ANY COST SAVINGS OPTIONS OF REUSE OF EXISTING EQUIPMENT. MATERIAL OR DEVICES SHALL BE MADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW ANY REQUESTED CHANGES DUE T THE CONTRACTORS OVERSIGHT FAILURE TO VISIT THE SITE PRIOR TO BID. SHALL NOT BE AUTHORIZ OR COMPENSATED. COORDINAT PO BOX 427 ALL LOUVER SIZES AND LOCATION PRIOR TO START OF ROGERS, AR 72756 CONSTRUCTION. LAYOUT ALL EQUIPMENT IN MECHANICAL ROOM PH 479.631.1712 || TO ENSURE PROPER SPACE AND FX 479.631.1854 WITH ANY ISSUES.

CONSTRUCTION REQUIREMENTS

THESE DOCUMENTS ARE

SOME CASES, BASED ON INFORMATION THAT IS PROVIDE

SHALL VERIFY EXISTING

CONDITIONS IN THE FIELD PRIOR 1

BY THE OWNER. THE CONTRACTO

DIAGRAMMATIC IN NATURE AND IN

OWNER
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ARCHITECT: MIKE KRESS
LICENSE NO. 5715
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SEAL ACADEMY BANK BRANCH: BRANCH

GENERAL NOTES

	ERAL NOTES	7.	ADJUSTMEN
1.	REFERENCE TO RELATED WORK: "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL, LANDSCAPE, OR KITCHEN), OR ITEM BASED ON A SPECIFIC MANUFACTURER'S DIMENSIONS (VERIFY).		BURNERS, I ADJUSTED RATINGS AS ACCOUNTING
2.	ELECTRICAL CHARACTERISTICS: REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS (VOLTAGES, ETC. OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED.	8.	BE APPROV AND SHALL MEET ALL E ETC. CODES COORDINAT
3.	CODES: COMPLETE INSTALLATION OF THE PLUMBING SYSTEM SHALL BE PER THE APPLICABLE BUILDING, MECHANICAL, ENERGY, PLUMBING, FIRE, AND HEALTH CODES AND REGULATIONS AS ADOPTED BY THE LOCAL AHJ.	9.	INCLUDE AL REQUIREMENT FIRE PROTE DESIGNED F
4.	PREPARE AND SUBMIT FOR REVIEW A SHOP DRAWING BASED ON FINAL STRUCTURAL SHOP DRAWINGS FOR LOCATING AND ROUTING ALL EQUIPMENT, PIPING, ETC. A. COORDINATE FLOOR AND BEAM PENETRATIONS WITH		COMPLIANC DESIGN, PE ALL OTHER OF ALL PIP
	STRUCTURAL. B. COORDINATE FINAL LOCATION AND ROUTING WITH CEILING, LIGHTS, WALLS, FIRE SPRINKLER PIPING, AND	PLU	MBING NOTES
	OTHER TRADES WORK. C. INCLUDE ADDITIONAL OFFSETS, ELBOWS, ROUTING, EQUIVALENT DUCT SIZING EXCHANGE, RELOCATING, ETC. AS REQUIRED FOR A COMPLETE OPERATING MECHANICAL		CONNECTION TO BUILDIN SYSTEM IN RECOMMENI
	SYSTEM. D. PROVIDE SHOP DRAWINGS AT NO ADDITIONAL COST TO THE OWNER.		FIXTURE, EV VACUUM BE REQUIRED A REFER TO
5.	PLUMBING CONTRACTOR SHALL LOCATE AND COORDINATE EXACT LOCATION OF ALL PLUMBING EQUIPMENT WITHIN THE STRUCTURE.	2.	PLANS.
5.	ACCESS DOORS: COORDINATE WITH ARCHITECT AND LOCATE ALL ACCESS DOORS ON SHOP DRAWINGS PRIOR TO BEGINNING OF CONSTRUCTION. ACCESS DOORS IN FIRE RATED STRUCTURE SHALL BE FIRE RATED. VERIFY ACCESS	3.	AND HOT W
7.	DOOR LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO BIDDING. ROOF PENETRATIONS: SEE ARCHITECTURAL DRAWINGS FOR ROOF CAP, ROOF CURB, ROOF DRAIN, AND VTR DETAILS.	4.	
З.	EXPOSED PIPING: PROVIDE CHROME PLATING FOR EXPOSED PIPING IN FINISHED ROOMS.	5.	AS REQUIRI
9.	PENETRATIONS: PROVIDE ESCUTCHEON PLATES FOR EXPOSED PIPING PENETRATIONS AND SHEET METAL FLASHING FOR EXPOSED DUCTWORK PENETRATIONS.		BE LOCATE HIGHLY VIS BE FITTED SUBMITTED CLEANOUTS
0.	SHAFT AND PLENUM CONNECTIONS: SEAL CONNECTIONS TO AIR SHAFTS AIRTIGHT. PROVIDE AIRTIGHT SEAL AROUND PENETRATIONS IN AIR PLENUMS.	6.	
1.	LIGHT FIXTURE CLEARANCE: COORDINATE LOCATIONS OF MECHANICAL WORK TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND REPLACEMENT.	7.	SHUT-OFFS SHUT-OFF CONNECTOF FIXTURE. EX
12.	CABLE TRAYS: PIPING INSTALLED ADJACENT TO ELECTRICAL CABLE TRAYS SHALL ALLOW MINIMUM ACCESS OF 6" ABOVE AND TO THE SIDE OF CABLE TRAYS.	8.	BATH/SHOW
3.	MOTORS: COMPLY WITH ENERGY CODE ENFORCED BY AHJ FOR MINIMUM EFFICIENCIES UNDER FULL LOAD.	9.	
14.	ACCESS CLEARANCES FOR MAINTENANCE AND REPLACEMENT: VERIFY PHYSICAL DIMENSIONS OF EQUIPMENT TO ENSURE THAT ACCESS CLEARANCES CAN BE MET. COORDINATE LOCATIONS OF MECHANICAL WORK AND WORK OF OTHER TRADES TO PROVIDE ACCESS CLEARANCES FOR SERVICE AND MAINTENANCE.		ADA INSUL/ LAVATORIES WITH PROD APPLICATIO HANDI-LAV CLEAR WHE
<u>000</u>	RDINATION REQUIREMENTS	11.	GAS EQUIPI EQUIPMENT
•	IRRIGATION: COORDINATE WITH IRRIGATION CONTRACTOR FOR THEIR WATER SUPPLY REQUIREMENTS AND LOCATIONS.	12.	GAS CONNE
2.	GAS: CONTRACTOR/GAS COMPANY SHALL FINALIZE GAS METER AND GAS SERVICE LOCATIONS.	13.	LOCAL JURI WATER HAN
3.	UTILITIES: COORDINATE WITH SITE UTILITY CONTRACTOR AND CIVIL DRAWINGS FOR UTILITY CONNECTIONS AND EXTENSIONS.		AND COLD SIZE IN AC INSTITUTE (ARE REQUIF
4.	ROOF DRAINAGE: COORDINATE WITH GENERAL CONTRACTOR FOR ROOF DRAIN AND OVERFLOWS, SCUPPER DRAINS, AND CONDENSATE DRAINS.	14.	LAUNDRY V TRAP PRIMI FLOOR DRA
5.	PLUMBING FIXTURES: COORDINATE WITH ARCHITECTURAL AND OTHER TRADES EXACT LOCATION OF ALL PLUMBING FIXTURES.		ACHIEVE EC FOR TRAP SINKS.
5.	PIPING: COORDINATE WITH STRUCTURAL FOR EXACT LOCATION OF ALL STRUCTURAL FRAMING AND FOOTINGS AND FINALIZE THE EXACT ROUTING OF ALL PIPES WITH STRUCTURAL AND AT THE SITE PRIOR AND DURING THE CONSTRUCTION.	15.	P-TRAPS: CHROME-P
	APPLICABLE CODES		

- NTS: ALL EQUIPMENT, MOTORS, FANS, GAS IGNITION DEVICES, DRIVES, ETC. SHALL BE AND BALANCED TO OPERATE AT SPECIFIED REQUIRED FOR THIS PROJECT SITE AND FOR ELEVATION ABOVE SEA LEVEL.
- MECHANICAL AND PLUMBING EQUIPMENT SHALL VED FOR INSTALLATION IN THE PROJECT LOCATION . HAVE ALL CERTIFICATIONS AND RATINGS TO ENERGY, POLLUTION, ENVIRONMENTAL, SEISMIC, AND REGULATIONS. THE CONTRACTOR SHALL WITH HIS MANUFACTURE SUPPLIERS AND SHALL . COSTS REQUIRED TO MEET THESE NTS IN HIS BID.
- ECTION: CONTRACTOR SHALL PROVIDE A FULLY FIRE PROTECTION SPRINKLER SYSTEM IN WITH NFPA AND LOCAL CODES. PROVIDE ERMITS, MATERIALS, INSTALLATION, TESTING AND FOR A FULLY OPERATIONAL SYSTEM. LOCATION PING TO BE COORDINATED WITH OTHER TRADES.

- NS: PROVIDE PLUMBING FIXTURE CONNECTIONS WASTE, VENT, COLD WATER, AND HOT WATER ACCORDANCE WITH DRAWINGS, MANUFACTURER'S DATIONS, AND LOCAL CODES. CONNECT TO EACH QUIPMENT, ETC. WITH ALL ACCESSORIES, VALVES, REAKERS, REGULATORS, UNIONS, ETC. AS AND AS RECOMMENDED BY THE MANUFACTURERS. PLUMBING FIXTURE CONNECTION SCHEDULE ON
- COLD: WATER PIPING CONNECTION TO EACH HALL BE COLD WATER ON THE RIGHT HAND SIDE WATER ON THE LEFT HAND SIDE.
- NON-CIRCULATING HOT WATER PIPE SHALL) 10' UNLESS OTHERWISE SHOWN ON DRAWINGS.
- KS: COORDINATE VENT STACK WITH HVAC TO MAINTAIN MINIMUM 10' CLEARANCE FROM NTAKES.
- PROVIDE CLEANOUTS PER CURRENT CODE AND ED BY LOCAL JURISDICTIONS. CLEANOUTS SHALL IN WALLS/FLOORS WHERE THEY ARE NOT SIBLE. FLOOR CLEANOUTS IN CARPETED AREAS TO WITH CARPET INSERTS. LOCATIONS SHALL BE TO ARCHITECT FOR APPROVAL. NOTE: NOT ALL ARE SHOWN ON THE PLUMBING DRAWINGS.
- : PROVIDE SUDS RELIEF IN ACCORDANCE WITH PC.
- PROVIDE 1/4 TURN BALL VALVE ANGLE STOP VALVES AND BRAIDED STAINLESS STEEL FLEX RS AT HOT AND COLD WATER SUPPLY TO EACH XCEPTION: PROVIDE SCREWDRIVER STOPS AT WERS.
- S SHALL BE THREADED (NO PUSH-ON FITTINGS).
- PROVIDE TRAP ARMS SUCH THAT THE ENGTH WILL NOT EXCEED CODE REQUIREMENTS.
- ATION: AT PLUMBING PIPING EXPOSED UNDER , INSULATE THE EXPOSED PIPING AND TRAPS UCT SPECIFICALLY DESIGNED FOR THIS MEETING ADA REQUIREMENTS. PROVIDE GUARD OR EQUIVALENT. OFFSET P-TRAPS TO ELCHAIR ACCESS.
- MENT: GAS EQUIPMENT SHALL BE INSTALLED PER LISTINGS, LOCAL CODES, AND NFPA.
- ECTIONS: INSTALL FLEXIBLE QUICK DISCONNECT S FOR ALL GAS FIRED KITCHEN EQUIPMENT PER RISDICTIONS.
- MMER ARRESTERS: PROVIDE AT THE END OF HOT WATER LINES SERVING TWO OR MORE FIXTURES; CORDANCE WITH PLUMBING AND DRAINAGE (PDI) REQUIREMENTS. WATER HAMMER ARRESTORS RED FOR QUICK CLOSING VALVES, SUCH AS WASHERS, FLUSH VALVES (PUBLIC TOILETS), ETC.
- ERS: PROVIDE TRAP PRIMERS AND PIPING FOR AINS AND FLOOR SINKS. ARRANGE PIPING TO QUAL FLOW TO EACH DRAIN AND FLOOR SINK PRIMERS SERVING MULTIPLE DRAINS AND FLOOR
- ALL EXPOSED P-TRAPS SHALL BE LATED BRASS.

APPLICABLE CODES	
 THESE DRAWINGS ARE BASED ON THE FOLLOWING CODES: 2018 INTERNATIONAL BUILDING CODE (IBC) 2018 INTERNATIONAL MECHANICAL CODE (IMC) 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2018 INTERNATIONAL PLUMBING CODE 	

C

S		AB	BREVIATIONS
16.	PROVIDE BALL VALVES. GATE VALVES SHALL NOT BE USED. NO EXCEPTIONS.	ACU AFF	AIR CONDITIONING UNIT ABOVE FINISHED FLOOR
17.	HOT WATER RECIRCULATING BALANCING VALVE VALVES TO BE BELL & GOSSET CIRCUIT SETTER (OR WATTS EQUIVALENT) WITH INTEGRAL READOUT PORTS, ADJUSTMENT KNOB, DRAIN CONNECTION, AND POSITIVE SHUTOFF.	AHJ BHP BOH BTUH	AUTHORITY HAVING JURISDICTION BRAKE HORSEPOWER BACK OF HOUSE BRITISH THERMAL UNIT PER HOUR
18.	DISASSEMBLY PROVISIONS: PROVIDE UNIONS OR FLANGES AT PIPING CONNECTIONS TO EQUIPMENT, COILS, TRAPS, CONTROL VALVES, AND OTHER COMPONENTS TO ALLOW DISASSEMBLY FOR MAINTENANCE.	C CAP CC CD CFF	COMMON CAPACITY COOLING COIL CONDENSATE DRAIN CAPPED FOR FUTURE
19.	REDUCERS: PROVIDE AS REQUIRED FROM LINE PIPE SIZE TO EQUIPMENT, TRAP, COIL, AND CONTROL VALVE CONNECTION SIZES.	CFM CI CO COMB	CUBIC FEET PER MINUTE CAST IRON CLEANOUTS COMBUSTION
	OFFSETS: PROVIDE FOR BRANCH LINES TO EQUIPMENT. DIELECTRIC UNIONS: PROVIDE AT CONNECTIONS OF DISSIMILAR PIPE.	CONT CONTR COTG CW D	CONTINUE, CONTROL CONTRACTOR CLEANOUTS TO GRADE COLD WATER DIAMETER
22.	REFRIGERANT PIPING: PROVIDE SIZING & INSTALLATION IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.	DB DIM DN	DRY BULB, DECIBEL DIMENSION DOWN
23.	CONDENSATE DRAIN: PROVIDE A P-TRAP FOR EACH HVAC UNIT CONDENSATE PAN WITH PLUG TEES FOR CLEANING. CONDENSATE DRAINS SHALL BE DISCHARGED TO AN INDIRECT WASTE OR OUTSIDE.	DS EFF ELEC EWC EXT	DOWN SPOUT EFFICIENCY ELECTRIC ELECTRIC WATER COOLER EXTERIOR, EXTERNAL
INSL	JLATION/LINING NOTES	F FCO FCU	FAHRENHEIT FLOOR CLEANOUTS FAN COIL UNIT
1.	ENERGY CODE: AS A MINIMUM, COMPLY WITH THICKNESSES AND TYPES LISTED IN ENERGY CODE ENFORCED BY AHJ.	FD FLR FPS FS G GAL GPG GPM GWB HB HD HEDV	FLOOR DRAIN FLOOR FEET PER MINUTE FEET PER SECOND FLOOR SINK GAS GALLONS GRAINS PER GALLON GALLONS PER MINUTE GYPSUM WALLBOARD HOSE BIBB HEAD HOSE END DRAIN VALVE
	PIPE MATERIALS	HORIZ HP HPCW HVAC HW	HORIZONTAL HORSEPOWER HIGH PRESSURE COLD WATER HEATING, VENTILATING, AND AIR CONDITIONING HOT WATER HOT WATER RE-CIRCULATION
	APPROVED PLUMBING MATERIAL: all sanitary system materials shall be listed by an approved listing agency.	HWC HX ID IE IN	HOT WATER RE-CIRCULATION HEAT EXCHANGER INDIRECT DRAIN, INSIDE DIAMETER INVERT ELEVATION INCH
	1. UNDERGROUND SERVICE ENTRANCE PIPING: COPPER, TYPE K. PLASTIC WRAP UNDERGROUND WATER SUPPLY PIPING TO PREVENT CORROSION.	KS KW L	KITCHEN SINK KILOWATT LONG, LENGTH
	2. ABOVEGROUND WATER DISTRIBUTION PIPING IN RESTROOMS: PEX.	LAV LB	LAVATORY POUND
	3. STORM, VENT AND GRAVITY WASTE: NO-HUB CAST IRON	MBH MECH MCA	THOUSAND BTU PER HOUR MECHANICAL MIN. CIRCUIT AMPACITY
	ALL CAST IRON SOIL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE (CISPI) AND BE LISTED BY NSF INTERNATIONAL. COUPLINGS: STANDARD COUPLINGS SHALL CONFORM TO CISPI 310 AND ASTM C 1277. SHIELD ASSEMBLIES SHALL CONSIST OF A STAINLESS STEEL BI-DIRECTIONAL CORRUGATED SHIELD; STAINLESS-STEEL BANDS AND TIGHTENING DEVICES; AND A ASTM C 564, RUBBER SLEEVE WITH INTEGRAL CENTER STOP. COUPLINGS SHALL BEAR THE NSF TRADEMARK, AND BE MANUFACTURED IN THE USA.	MOCP MPG MTD OD OPNG P PD	MAX. OVER CURRENT PROTECTION MEDIUM PRESSURE GAS MOUNTED OUTSIDE DIMENSION/DIAMETER OVERFLOW DRAIN/DECK DRAIN OPENING PUMP PRESSURE DROP, PUMPED DRAIN
	EXCEPTION: SOLID WALL PVC SCH. 40 ASTM D2665 IS APPROVED ONLY FOR UNDERSLAB PIPING WITH PROPER TRENCHING PER ASTM D2321, FOR PARKING GARAGE AND BUILDING WITH MAXIMUM 3 STORIES. PRIOR TO BIDDING, CONTRACTOR SHALL CONTACT LOCAL AHJ FOR ACCEPTANCE OF PVC PIPING UNDERSLAB. EXPANSION LOOP OR EXPANSION JOINTS SHALL BE PROVIDED PER PIPING MANUFACTURER RECOMMENDATION.	POC PRV PS PSIG PW RD	POINT OF CONNECTION PRESSURE REDUCING VALVE PRESSURE RELIEF VALVE PUMPED STORM DRAINAGE POUNDS PER SQUARE INCH GAUGE PUMPED SANITARY WASTE ROOF DRAIN
	NOTE 1: PVC PIPING SHALL NOT BE USED FOR RECEPTOR & TRAP ARM WHERE WASTE TEMPERATURE CAN EXCEED 110°F. THIS INCLUDE PIPING AND RECEPTORS FOR 3 COMP SINK, DISHWASHER, COMMERCIAL LAUNDRY SINK, AND CONDENSATION DRAIN FOR GAS FIRED EQUIPMENT.	REF PRBP RPM SCH	REFERENCE REDUCED PRESSURE BACKFLOW PREVENTER REVOLUTIONS PER MINUTE SCHEDULE
1	NOTE 2: TRAP ARM FOR WASTE RECEPTOR OF SODA DISPENSER SHALL BE MADE OF SOLID CORE PVC SCH. 40 ASTM D2665. CAST IRON PIPING S NOT ALLOWED FOR HIGH ACIDITY DRAINS. (PH<3)	SCW SD SF SH	SOFTENED COLD WATER STORM DRAIN SQUARE FOOT SHOWER
	NOTE 3: FOAM (CELLULAR) CORE PVC PIPING/FITTING IS PROHIBITED BY ENGINEERING.	SO SP SR	STORM OVERFLOW STATIC PRESSURE SUDS RELIEF
1	4. CONDENSATE DRAIN PIPING: CPVC OR COPPER TYPE M.	SS SQ	STAINLESS STEEL, SANITARY SEWER SQUARE
· ·		TYP	TYPICAL UNIT HEATER
	5. TEMPERATURE AND/OR PRESSURE RELIEF VALVE DISCHARGE PIPING: COPPER TYPE M	UH UON	UNLESS OTHERWISE NOTED

<u>GENERAL</u>	
ARCHITECTURAL BACKGROUND (THIN LINE)	
NEW MECHANICAL WORK (HEAVY LINE)	
MATCHLINE OR PROPERTY LINE	
SECTION IDENTIFICATION	
- INDICATES DIRECTION OF CUTTING	
- LETTER INDICATES SECTION	
- SHEET NUMBER WHERE SECTION IS	
- SHEET NUMBER WHERE SECTION IS TAKEN	
EQUIPMENT	
TYPICAL EQUIPMENT DESIGNATION (EXHAUST FAN SHOWN)	Y□ N1
SANITARY SEWER (SS)	——————————————————————————————————————
VENT (V)	
OVERFLOW RAIN LEADER	 ↓ ID
DOMESTIC WATER (DW)	
HOT WATER, POTABLE, TEMPERATURE	
HOT WATER CIRCULATING (HWC), POTABLE, 120°F	; \$
HOT WATER CIRCULATING, POTABLE, TEMPERATURE OTHER THAN 120'F	
FUEL OIL FILL FUEL OIL SUPPLY	Ŷ Į
FUEL OIL RETURN FUEL OIL VENT	+ P/T
RELIEF VENT	
MEDIUM PRESSURE NATURAL GAS	
ACTOR SUBSTITU	ITIONS &
ATIONS, THE MANUFACTURER'S PUBLISHED PART OF SPECIFICATION. ENGINEERING CO HE COST ANALYSIS OF THE SUBSTITUTION DETERMINE ASSOCIATED DESIGN AND PERMI	DATA AND/OR SPECI OSTS FOR REVISING ME PROPOSAL. CONTRAC TTING COSTS. CONTRA
RE DIAGRAMMATIC, SHOWING TH	
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MENT REQUIRED. THE DRAWINGS IT. REFER TO ARCHITECTURAL D R'S STANDARD INSTALLATION DI TION REQUIREMENTS. PROVIDE D	SHALL NOT BE RAWINGS FOR E RAWINGS FOR E UCTWORK, CONN
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	(DETAIL SIMILAR) NDICATES DIRECTION OF CUTTING PLANE LETTER INDICATES SECTION (NO. INDICATES DETAIL) SHEET NUMBER WHERE SECTION IS DRAWN SHEET NUMBER WHERE SECTION IS TAKEN EQUIPMENT TYPICAL EQUIPMENT DESIGNATION (EXHAUST FAN SHOWN) PIPING SANITARY SEWER (SS) PUMPED WASTE VENT (V) RAIN LEADER OVERFLOW RAIN LEADER CONDENSATE DRAIN DOMESTIC WATER (DW) HOT WATER, POTABLE, 120°F (DHW) HOT WATER, POTABLE, 120°F (DHW) HOT WATER, POTABLE, 120°F (DHW) HOT WATER, CIRCULATING (HWC), POTABLE, 120°F HOT WATER CIRCULATING (HWC), POTABLE, 120°F HOT WATER CIRCULATING, POTABLE, 120°F HOT WATER CIRCULATING, POTABLE, 120°F HOT WATER CIRCULATING, POTABLE, 120°F HOT WATER CIRCULATING, POTABLE, 120°F HOT WATER CIRCULATING (HWC), POTABLE, 120°F HOT WATER CIRCULATING (HWC), POTABLE, 120°F HOT WATER CIRCULATING (HWC), POTABLE, 120°F FUEL OIL FILL FUEL OIL SUPPLY FUEL OIL SUPPLY FUEL OIL RETURN FUEL OIL VENT RELIEF VENT NATURAL GAS MEDIUM PRESSURE NATURAL GAS IRRIGATION

DWG	DESCRIPTION
P000	LEGEND, GENERAL NOTES & DRAWING INDEX
P100	WATER AND SEWER PIPING MAINS PLAN AND SCHEDULES
P400	ENLARGED DOMESTIC WATER PLUMBING PLAN
P401	ENLARGED SANITARY SEWER PLUMBING PLAN
P500	DETAILS
P600	ISOMETRICS
P700	SPECIFICATIONS

PIPE	CAP
PIPE	PLUG
UNIO	N
FLAN	IGE
WYE	STRAINER
	STRAINER WITH CAPPED HOSE BLOWDOWN VALVE
BALL	- VALVE
CHEC	CK VALVE
BALA	ANCING OR PLUG VALVE
BUT	TERFLY VALVE
PRES	SSURE REDUCING VALVE (PRV)
AUT	OMATIC CONTROL VALVE, 2-WAY
AUT	OMATIC CONTROL VALVE, 3-WAY
RELI	EF VALVE
BAL	ANCING/MEASURING VALVE
FLEX	(IBLE CONNECTION IN PIPING
PIPE	ANCHOR
PIPE	ALIGNMENT GUIDE
PIPE	SUPPORT
VAL	VE STATION OR ASSEMBLY
INDIF	RECT DRAIN, PIPE TO DRAIN
FLOC	DR DRAIN
HOSI	E BIBB
BRE	AK IN PIPING OR DUCTWORK
PUM	Ρ
PRES	SSURE GAUGE
THEF	RMOMETER
	SSURE/TEMPERATURE
	JCED PRESSURE BACKFLOW VENTER
	BLE CHECK VALVE ASSEMBLY

S & REVISIONS

VIEW AND APPROVAL PRIOR TO _ED BY MANUFACTURER'S NAME AND SPECIFICATION FOR THAT ITEM SING MEP PLANS SHALL BE ONTRACTOR TO COORDINATE WITH CONTRACTOR SHALL BE RESULTING FROM SUBSTITUTIONS OR

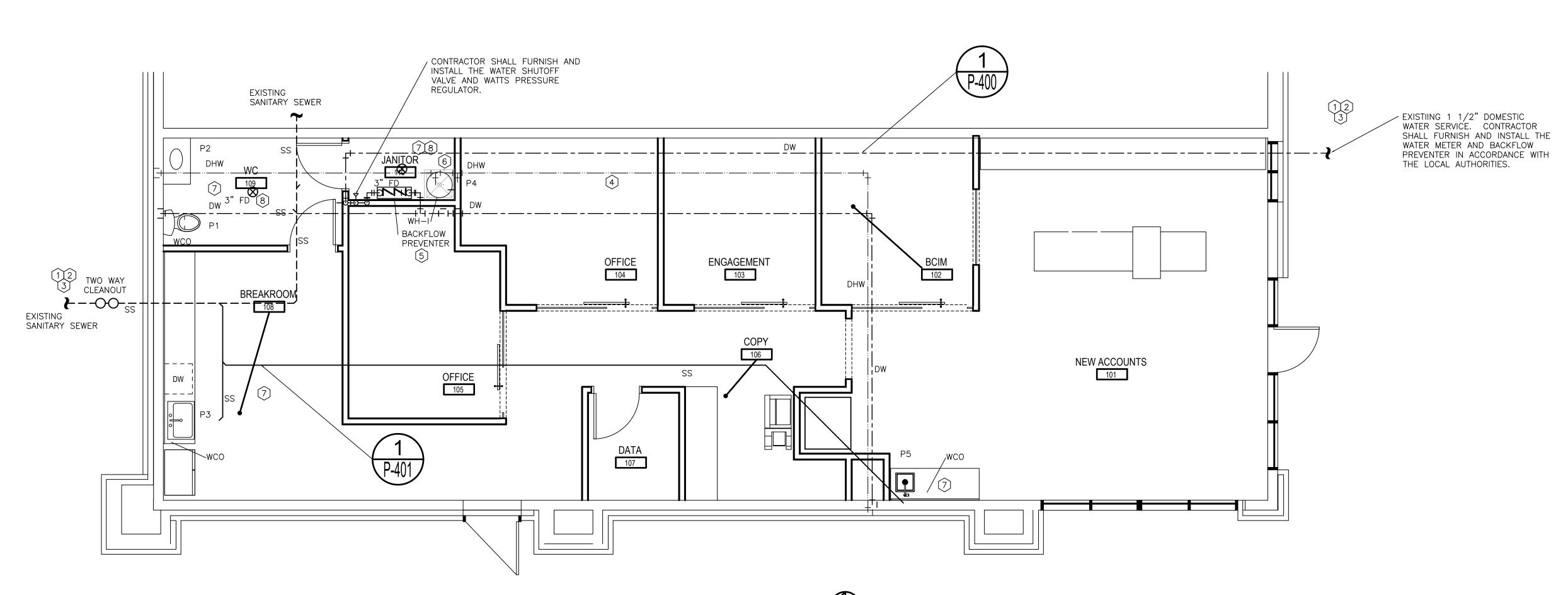
LOCATION, TYPE, LAYOUT, OT BE SCALED FOR EXACT FOR DIMENSIONS. REFER TO OR EQUIPMENT CONNECTIONS CONNECTIONS, ACCESSORIES, COMPLETE SYSTEM.

PRIOR TO BID/START 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 DISCREPANC ES 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 OPT ONS OR RELISE OF EXISTING FOLIPMENT, 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 ROGERS, AR 72756 PRIOR TO START OF PH 479.631.1712 EQUIPMENT IN MECHANICAL ROOM TO ENSURE PROPER SPACE AND FX 479.631.1854 CLEARANCES ARE AVAILABLE. CONTACT ARCHITECT IMMEDIATELY WITH ANY ISSUES.

OWNER DICKINSON FINANCIAL COR 1111 MAIN STREET #1600 KANSAS CITY, MO 64105 816.472.5244 ARCHITECT GENERATOR STUDIO LLC 1615 BALTIMORE AVE KANSAS CITY, MO 64108 816.333.6527 GENERATORSTUDIO.COM CONTRACTOR SOUTHWIND GROUP 1218 ENERGY DRIVE ABILENE, TX 79602 325.695.1111 SOUTHWINDGRP.COM	PORATION
ARCHITECT: LICENSE NO.	MIKE KRESS 5715
	RANCH: MMIT enstein Dr
ISSUE DATE: REV DESCRIPTION	05.30.24 DATE
SHEET TITLE P-00	0





MOUNTING H	HEIGHT SCHEDULE
FIXTURE	DIMENSION
TOILET SEATS (ADA)	17" — 19" AFF TOP OF SEAT MAX.
LAVATORIES (ADA)	34" AFF TO RIM. 29" MIN. TO BOTTOM OF APRON
DRINKING FOUNTAIN (ADA)	36" AFF TO SPOUT

WATER SUPPLY CALCULATION
SITE LOCATION: LEE SUMMIT, MISSOURI STATIC PRESSURE: 70 PSI (ASSUMED) (1) WC 5 x 1 = 5 TOTAL F.U.: 14 (3) LAV 2 x 3 = 6 GPM: BUILDING USAGE 17 (1) MS 3 x 1 = 3 GPM: IRRIGATION USAGE 0 TOTAL PROJECTED WATER USAGE 17 GPM WATER METER: $3/4$ "
70PSIPRESSURE IN MAIN-5PSILOSS THROUGH 3/4" METER-2PSILOSS THROUGH TAP-20PSIFIXTURE OPERATING PRESSURE-5.2PSIDROP FOR ELEVATION (12 FT.)-15PSIBACKFLOW PREVENTER25.8PSIAVAILABLE25.8PSIAVAILABLEPRESSURE
PIPELENGTH(TAPTOMETER50FT.(ESTIMATED)PIPELENGTH(METERTOBUILDING)30FT.(ESTIMATED)PIPELENGTH(TOFUTTHESTFIXTURE)145FT.VERTICALLENGTH10FT.EQUIVALENTLENGTH0FFITTINGS55FT.TOTALDEVELOPEDLENGTH290FT.
MAX. ALLOWED LOSS (PER 100 FT. OF PIPE) = $\frac{\text{AVAILABLE PRESSURE: 25.8 PSI}}{\text{TOTAL DEVELOPED LENGTH: 290 FT.}} \times 100 = 8.9 PSI/100 FT.WATER SERVICE FROM EXISTING METER SHALL BE 1 1/4"AS SHOWN ON DETAIL "2" SHEET P600. WATCALC$

THERMAL EXPANSION TANK SCHEDULE								
MARK	MANUFACTURER MODEL	TOTAL VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MAXIMUM WORKING PRESSURE	FACTORY PRECHARGE (PSI)			
ET-1	WATTS DETA-5	3.5	2.3	150 PSIG	40			

WATER AND SEWER MAINS PLAN

Scale: 1/4" = 1'

1

KEYED DOMESTIC WATER NOTES

- 1 Contractor shall confirm exact location of existing sewer and water line and existing WATER METER WITH LOCAL UTILITIES PRIOR TO CONSTRUCTION.
- (2) CONTRACTOR SHALL COORDINATE EXACT LOCATION OF UTILITIES OUTSIDE THE BUILDING THAT WORK MAY INTERFERE WITH OR CROSS.
- CONTRACTOR SHALL SLEEVE NEW WATER LINE WHERE IT CROSSES THE SANITARY SEWER LINE. WATER LINE SHALL BE PLACE ABOVE THE SEWER LINE.
- (4) HOT AND COLD WATER LINES RAN OVER HEAD SHALL BE INSULATED AND RAN ON THE WARM SIDE OF THE CEILING INSULATION.
- (5) IF NON EXISTING, A BACKFLOW PREVENTER SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR THE BACKFLOW PREVENTER SHALL BE A REDUCED PRESSURE ZONE TYPE, WATTS LF009M2QT SERIES. IF THE BACKFLOW IS INSTALLED INDOORS MOUNT BACKFLOW PREVENTER 12 TO 30 INCHES AFF AND A MINIMUM OF 12 INCHES FROM ANY WALL. ROUTE DRAIN LINE TO THE MOP SINK AND TERMINATE ABOVE THE FLOOD RIM OF THE SINK. PROVIDE 2' AIR GAP. CONTRACTOR SHALL PROVIDE SHUT OFF VALVES ON EACH SIDE OF THE BACKFLOW PREVENTER.
- A MOUNT WATER HEATER IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ROUTE TEMPERATURE AND PRESSURE RELIEF DRAIN LINE DOWN IN WALL TO TERMINATE TO THE OUTSIDE AT 12" ABOVE GRADE.(OR TO MOP SINK PROVIDE 2" AIR GAP). HORIZONTAL DRAIN LINE SHALL BE SLOPED AT 1/4" PER 12" MINIMUM. CONFORM TO APPLICABLE ĆODES.
- 7 SEE THE ARCHITECTURAL FLOOR PLAN AND ELEVATIONS ON THE ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE AND DRAIN LOCATIONS.
- (8) PROVIDE JAY R. SMITH "PRIME-EZE" WATER SAVE TRAP PRIMER PRODUCT NO. 2689 OR EQUAL BY OTHER MANUFACTURERS FOR FLOOR DRAINS.

	PLUMBING FIXTURE SCHEDULE								
MARK FIXTURE MFGR CATALOG TRIM RUNOUT SIZES (MINIMUM)									
			NUMBER		CW	HW	WASTE	VENT	NOTES
Ρ1	ELONGATED FLUSHTANK TOILET	KOHLER	ELMBROOK K-45983	BREVIA QUICK RELEASE ELONGATED TOILET SEAT	1/2"		3"	2"	B,C,E,F
P2	WALL-MOUNT BATHROOM LAVATORY WITH SHROUD	KOHLER	K-1999-SS1	KOHLER K-13469 GEOMETRIC INSIGHT TOUCHLESS FAUCET WITH KOHLER K- 13481 MULTI-OUTLET POWER SUPPLY. CONTRACTOR SHALL FURNISH AND INSTALL A WATTS LFMMV- MIXING VALVE TO SERVE THE FAUCETS (SET TO 110 F).	1/2"	1/2"	1 1/2"	1 1/2"	A,B,C,D, E,G
P3	UNDER COUNTER LAVATORY	BLANCO	518478	FAUCET: MOEN S62308	1/2"	1/2"	1 1/2"	1 1/2"	A,B,D,G
Ρ4	SERVICE SINK	FIAT	FL7TG100	FIBERGLASS REINFORCED POLYESTER RESIN. COMES WITH MOUNTING LEGS, HARDWARE, P-TRAP, SUPPLY LINE, CHROME PLATED FAUCET, TAILNUT AND STOPPER.	3/4"	3/4"	3"	1 1/2"	А,В,
Ρ5	UNDER COUNTER LAVATORY	BLANCO	518478	FAUCET: MOEN S62308	1/2"	1/2"	1 1/2"	1 1/2"	A,B,D,G

NOTES: A. CHROME PLATED BRASS "P" TRAP.

B. FLEXIBLE SUPPLIES WITH KEYED STOPS.

C. ACCEPTABLE MANUFACTURERS ARE AMERICAN STANDARD, ELJER, AND KOHLER. D. HOT WATER LINE SHALL BE INSULATED BETWEEN WALL AND FIXTURE. E. FIXTURES SHALL BE WHITE COLOR UNLESS OTHERWISE NOTED.

F. HANDICAP WATER CLOSETS SHALL HAVE FLUSH HANDLE ON WIDE SIDE OF TOILET STALL. COORDINATE WITH GRAB-BARS. G. CONTRACTOR SHALL FURNISH AND INSTALL WATTS LFMMV- MIXING VALVES TO SERVE THE FAUCETS (SET TO 110 F).

		ELECTRIC	WATER HE	ATER	
MARK	MANUFACTURER MODEL	INPUT KW TANK SIZE	VOLTZ HERTZ PHASE	RECOVERY, GPH RISE DEGREES F.	NOTES
WH-1	AO SMITH DEL – 20	4.5 KW 20 GAL.	208 V 60 HZ 1 PH	18 100	1,2,3
NOTEO					

NOTES: 1. VERIFY VOLTAGE WITH ELECTRICAL CONTRACTOR.

2. FURNISHED AND INSTALLED BY CONTRACTOR. 3. CONTRACTOR SHALL FURNISH AND INSTALL VACUUM BREAKER.



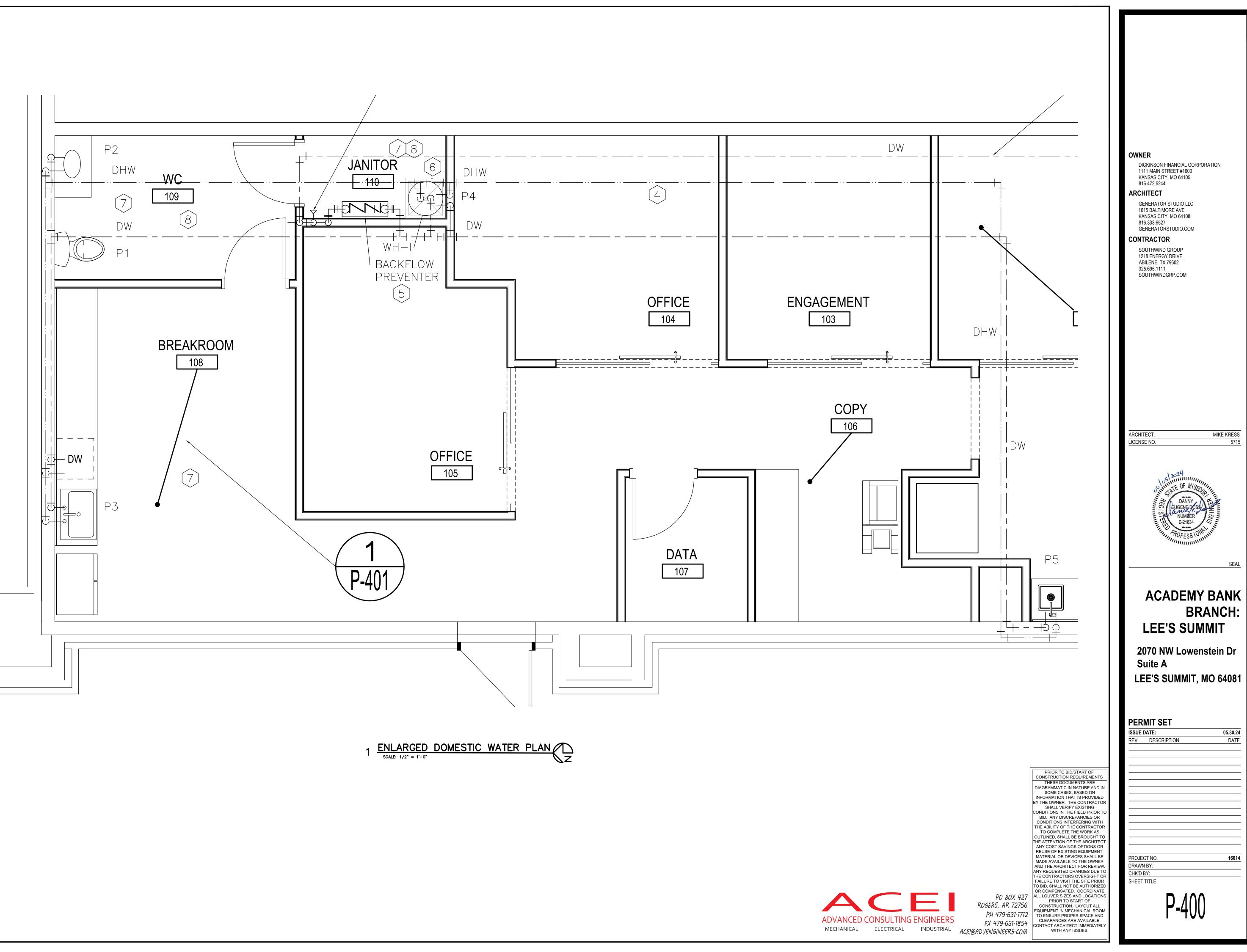
THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND IN SOME CASES, BASED ON INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS OUTLINED, 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 PO BOX 427 ALL LOUVER SIZES AND LOCATIONS PRIOR TO START OF ROGERS, AR 72756 CONSTRUCTION. LAYOUT ALL

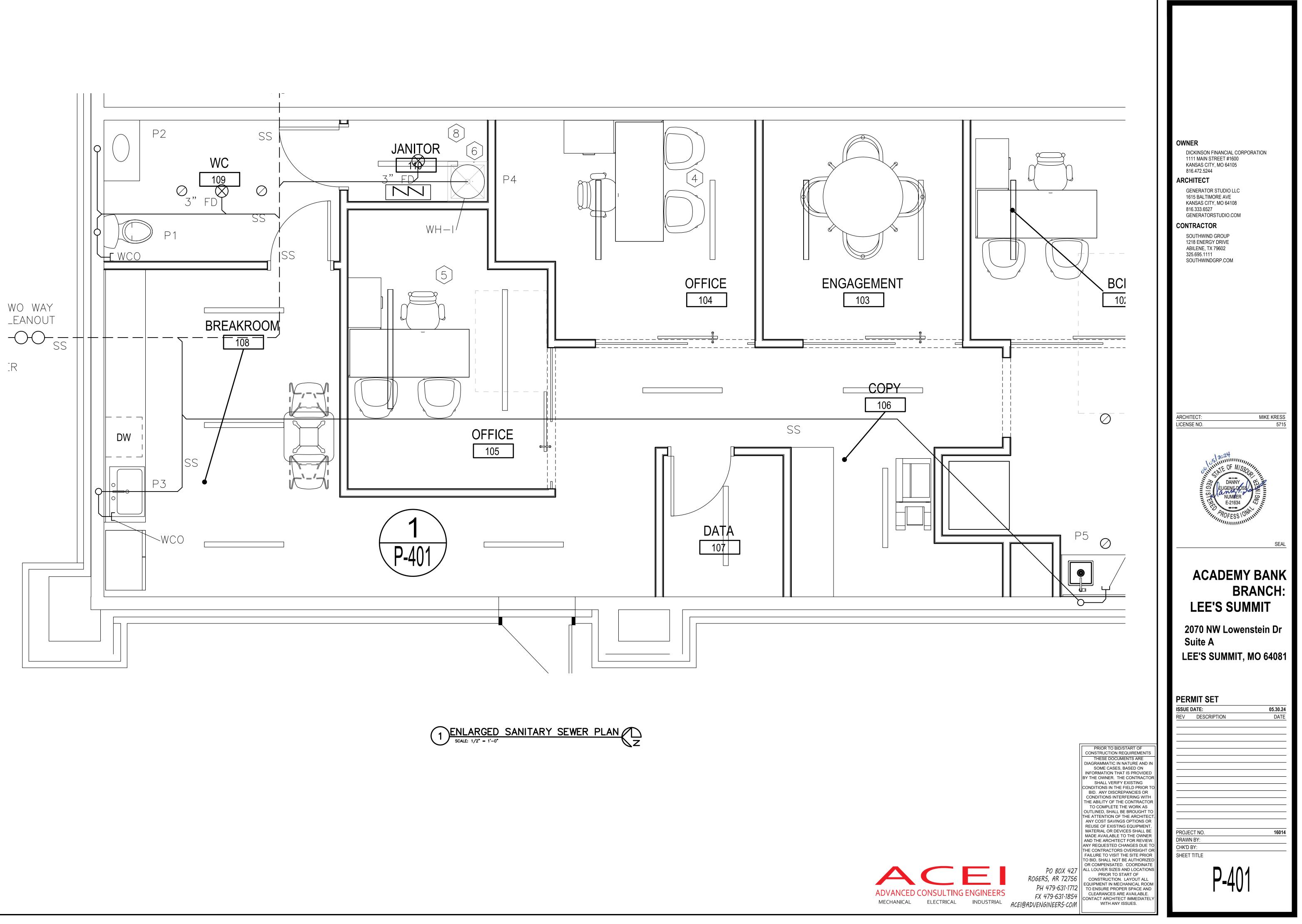
PRIOR TO BID/START OF

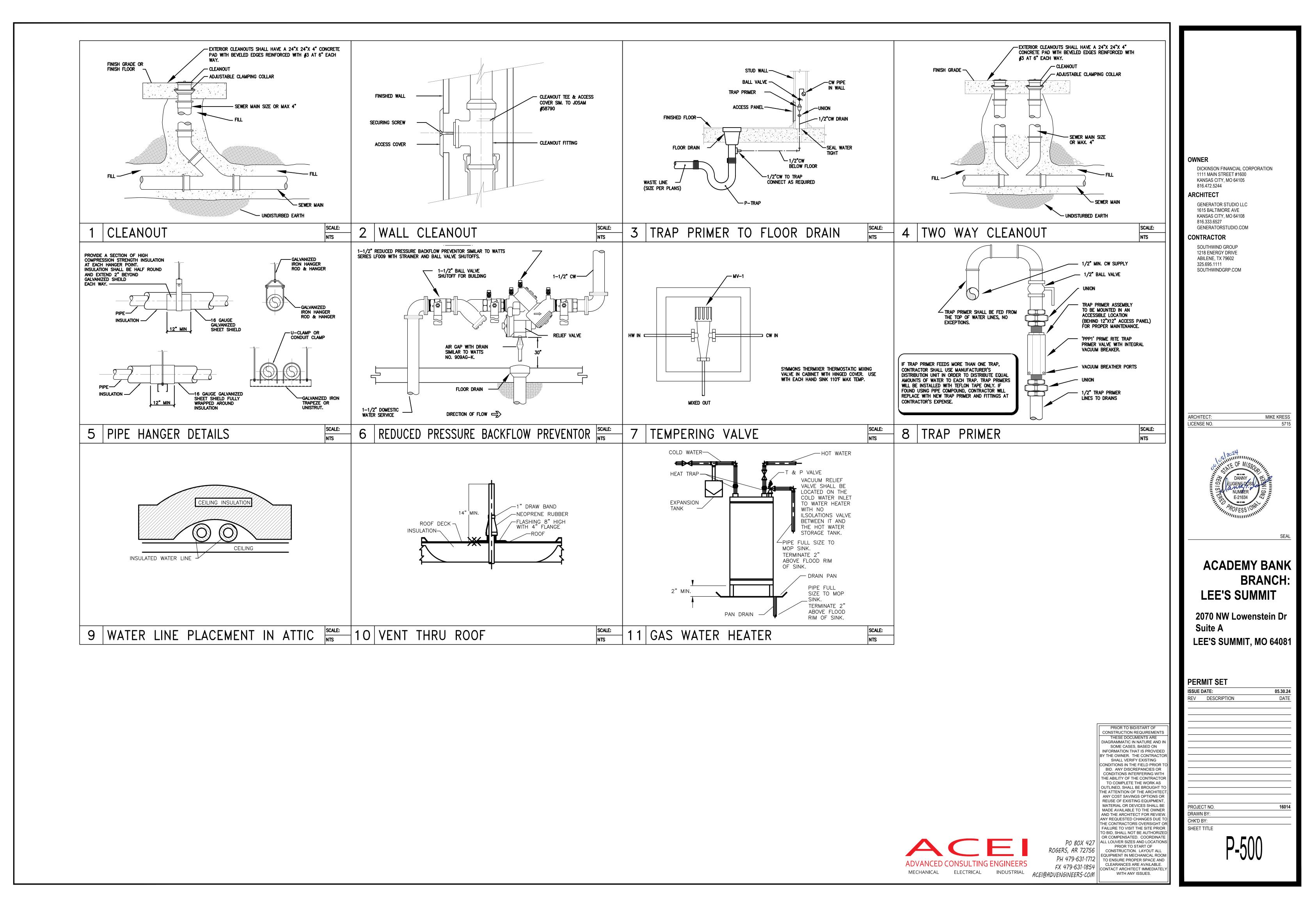
CONSTRUCTION REQUIREMENTS

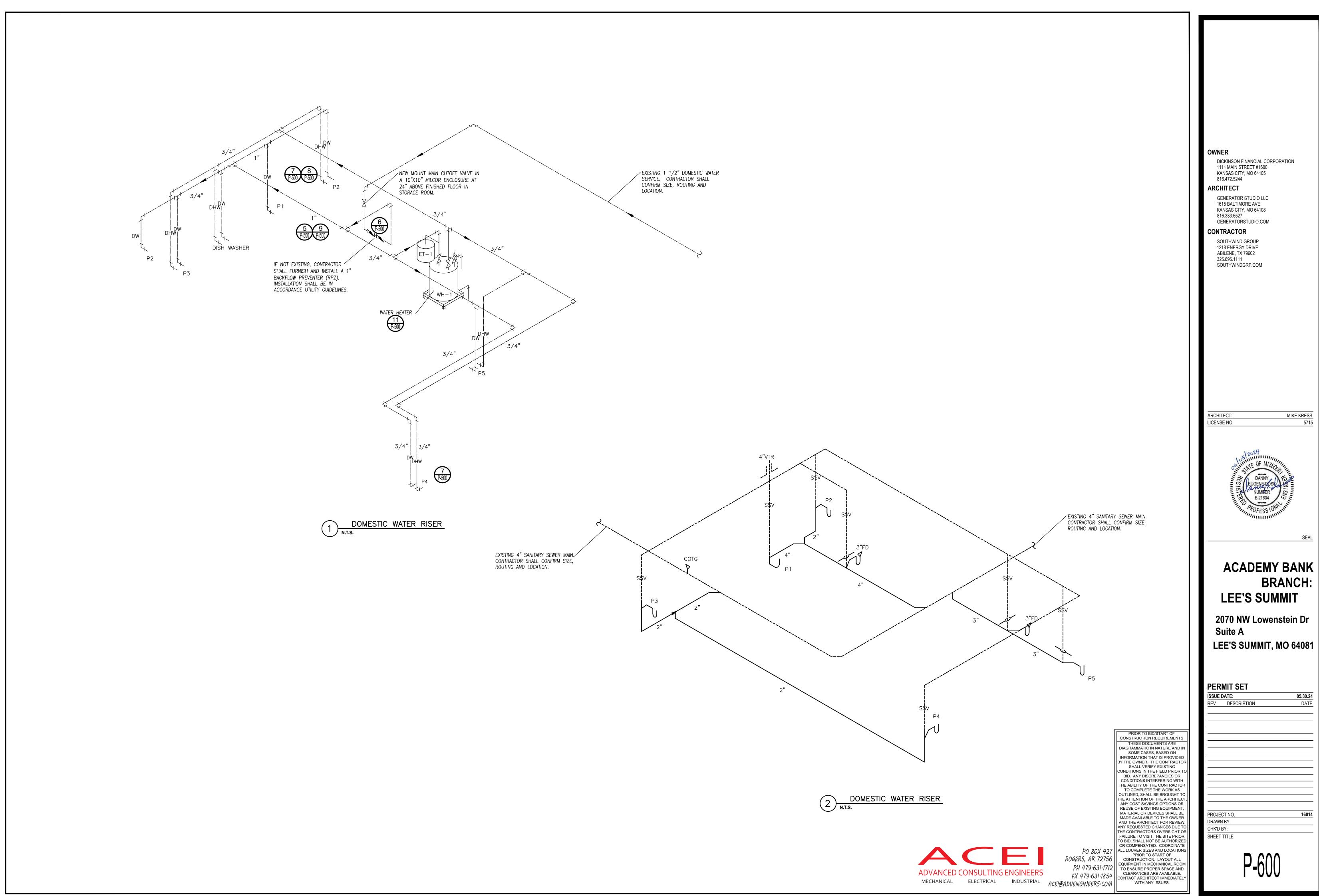
PH 479-631-1712 EQUIPMENT IN MECHANICAL ROOM TO ENSURE PROPER SPACE AND FX 479.631.1854 CLEARANCES ARE AVAILABLE. WITH ANY ISSUES.

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ISSUE DATE: 05.30 REV DESCRIPTION DA	
DRAWN BY: CHK'D BY: SHEET TITLE	









SANITARY SECTION	DRAIN, WASTE, AND VENT PIPING SYSTEM 15411		IC WATER PIPING SYSTEM 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.		B. HOT AND COLD WATER PIPING.C. TEMPERATURE AND PRESSURE (T & P) RELIEF PIPING.
	CONDENSATION DRIP AND OVERFLOW PIPING. CLEANOUTS.		D. VALVES.E. SHOCK SUPPRESSORS.
	FLOOR DRAINS.		
1.02	RELATED WORK:	1.02	RELATED WORK:
А.	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 SHOCK 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.		SUBMIT LIST OF PIPING PRODUCTS TO BE USED AND STATE THEIR MANUFACTURERS, B. OR TYPES, AND OTHER APPLICABLE DATA.
C.	SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION AND ROUTING		SUBMIT SHOP DRAWINGS OF SHOCK SUPPRESSORS LAYOUT PROPOSED. C. SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION AND ROUTING
D.	OF INSTALLED PIPING. SUBMIT SHOP DRAWINGS ON MANHOLES INDICATING MANUFACTURED		D. OF INSTALLED PIPING.
	ITEMS, REINFORCING STEEL REQUIREMENTS, ETC.		SUBMIT CERTIFICATE OF COMPLETION OF CHLORINATION. E.
	PRODUCTS		PRODUCTS
	PIPING:		
Α.	UNDERGROUND DRAIN AND VENT PIPING INSIDE BUILDING AND TO FIVE FEET OUTSIDE BUILDING:	2.01	PIPING: A. FOR UNDERGROUND WATER SERVICE PIPING OUTSIDE BUILDING TO V
	1. SCHEDULE 40 PVC PIPE AND FITTINGS.		METER:
В.	ABOVE GROUND DRAIN AND VENT PIPING:		1. ASTM B88 TYPE AS INDICATED ON DRAWINGS HARD COPPER TUBING WITH WR COPPER FITTINGS AND JOINTS MADE WITH 95-5 SOLDER.
6	1. SCHEDULE 40 PVC PIPE AND FITTINGS.		THICKNESS CLASS 50, CEMENT LINED, SEAL COATED, HUB AND SPIGOT TYPE 2. IRON WITH JOINTS MADE WITH RUBBER COMPRESSION RINGS MANUFACTURED I
C.	WASTE ARMS FOR LAVATORIES, SINKS, AND URINALS: 1. DWV COPPER PIPE WITH CAST BRASS ADAPTERS AND WROUGHT		2. IKON WITH JOINTS MADE WITH RUBBER COMPRESSION RINGS MANUFACTURED F PURPOSE. (OPTIONAL)
	COPPER FITTINGS AND JOINTS MADE WITH 50-50 SOLDER.		
	 SCHEDULE 40 GALVANIZED STEEL PIPE WITH SCREWED FITTINGS (OPTIONAL). 		B. FOR UNDERGROUND WATER PIPING INSIDE BUILDING AND TO FIVE FOUTSIDE BUILDING
D.	UNDERGROUND SEWER PIPING OUTSIDE BUILDING TO SEWER MAIN: 1. SCHEDULE 40 PVC PIPE AND FITTINGS.		 1" AND SMALLER – ASTM B88 TYPE AS INDICATED ON DRAWINGS SOFT COPPL TUBING WITH NO FITTINGS OR JOINTS PERMITTED UNDER SLAB. MAKE CONNE ABOVE SLAB USING WROUGHT COPPER FITTINGS AND 95–5 SOLDER.
E.	CONDENSATION DRIP AND OVERFLOW PIPING: SOLVENT-CEMENT WELD.		1-1/4" and larger – astmed by type as indicated on drawings hard of the times and joints make with support of the second seco
2.02	CLEAN OUTS:		 TUBING WITH WROUGHT COPPER FITTINGS AND JOINTS MAKE WITH SIL-FOS SC (15% SILVER CONTENT).
	PROVIDE CLEAN OUTS COMPATIBLE WITH TYPE OF DRAIN PIPING TO WHICH IT IS		C. FOR EXPOSED PIPING IN TOILET ROOMS AND OTHER FINISHED AREA
	CONNECTED. PROVIDE COVERS COMPATIBLE WITH TYPE OF FLOOR OR WALL FINISH WITH CONSIDERATION GIVEN TO TRAFFIC CONDITIONS. MAKE CLEAN OUTS SAME SIZE AS PIPE THROUGH 4 INCHES.		USE CHROME PLATED BRASS PIPE WITH THREADED FITTINGS.
			D. FOR ABOVE GROUND WATER AND T & P RELIEF PIPING INSIDE BUI USE ASTM B88 TYPE AS INDICATED ON DRAWINGS HARD COPPER 1
В.	FLOOR CLEAN OUT (FCO): CAST IRON WITH TAPERED BRASS PLUG, THREADED ADJUSTABLE HOUSING, AND ROUND NICKEL BRONZE SCORIATED TOP.		WITH WROUGHT COPPER FITTINGS AND JOINTS MADE WITH 95-5 SO
			E. SOLDER CONTAINING LEAD SHALL NOT BE USED ON POTABLE WATE 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.		
	AND FLOSH WITH FINISHED GRADE.	2.02	VALVES:
2.03	FLOOR DRAINS:		A. PROVIDE VALVES WITH SUITABLE MATERIALS INCLUDING DISC, PLUGS, BALLS, GASKET LININGS, AND LUBRICANTS FOR THE SERVICE, TEMPERATURE, AND PRESSURE TO WH
Α.	STANDARD FLOOR DRAIN (FD): LACQUERED CAST IRON BODY WITH FLANGE, CLAMPING COLLAR WITH SEEPAGE OPENINGS, AND ADJUSTABLE SQUARE SATIN BRONZE STRAINER.		THEY WILL BE EXPOSED. FURNISH WITH SOLDER OR SCREWED CONNECTIONS.
	FLOOR DRAINS ARE 2 INCHES UNLESS SHOWN OTHERWISE.		B. GATE VALVES: BRONZE, NON-RISING STEM, INSIDE CREW, DOUBLE WEDGE.
			C. GLOBE OR ANGLE VALVES: BRONZE, RISING STEM, INSIDE CREW, RENEWABLE COMPOSITION DISC.
PART 3	EXECUTION		D. CHECK VALVES: BRONZE WITH SWING DISC.
3.01	PREPARATION:		E. FREEZE PROOF HOSE BIBBS (FPHB): 3/4" ANTI-SIPHON NON-FREEZE TYPE WITH
Α.	SWAB PIPES AND CLEAN JOINTS AND FITTINGS INSIDE AND OUT PRIOR TO MAKING CONNECTIONS. USE PROPER LUBRICANTS ON COMPRESSION GASKETS.		BRONZE CASING AND BOX WITH LOOSE KEY HANDLE. FURNISH FOR PROPER WALL THICKNESS.
3.02	INSTALLATION:		
A.	UNLESS INDICATED OTHERWISE ON THE DRAWINGS, SLOPE HORIZONTAL DRAIN AND VENT PIPING IN ACCORDANCE WITH THE FOLLOWING:	PART 3	EXECUTION
	SIZE <u>MINIMUM SLOPE</u>	3.01	PREPARATION:
	<u>SIZE</u> <u>MINIMUM SLOPE</u> 3" AND SMALLER 1/4" PER FOOT		A. REAM PIPES AND TUBING AND THOROUGHLY CLEAN INSIDE AND OUTSIDE PRIOR TO CONNECTING.
	4" AND LARGER 1/8" PER FOOT		
В.	BURY ALL UNDERGROUND OUTSIDE SEWER PIPE A MINIMUM OF 2 FEET FROM FINISHED	3.02	INSTALLATION: A. SLOPE WATER PIPING MINIMUM OF 1 INCH IN 40 FEET AND ARRANGE TO DRAIN AT
	GRADE.		A. SLOPE WATER PIPING MINIMUM OF I INCH IN 40 FEET AND ARRANGE TO DRAIN AT ALL LOW POINTS.
С.	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 OF 3 FEET 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 JOINING DISSIMILAR METALS SUCH AS BRASS VALVES OR ADAPTERS OR INSULATING COUPLINGS. USE PROPER ADAPTERS FOR SCREWED VALVES TO COPPER PIPING.
3.03	TESTING:		D. USE TEFLON TAPE OR OTHER APPROVED JOINTS COMPOUND TO CONNECT THREADED
Α.	BEFORE CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE:		E. PIPE. CONNECT TO T & P RELIEF VALVE AND EXTEND FULL SIZE TO APPROVED DISCHARC
	1. WATER TEST – SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR		F. POINT.
	30 MINUTES. 2. AIR TEST – SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES. (OPTIONAL)		WHERE PIPE PASSES THROUGH FINISHED WALL, CEILING, OR FLOOR, PROVIDE CHRO G. PLATED ESCUTCHEON PLATE SECURELY ANCHORED TO PIPE. INSTALL PIPE SO THAT NO THREADS SHOW.
			ARRANGE WITH LOCAL UTILITY FOR WATER TAP AND METER INSTALLATION. PAY ALL H. COSTS TO ESTABLISH WATER SERVICES.
	SECTION		

	7.00			
	3.02 I.	INSTALLATION CONTINUED: INSTALL GATE VALVE TO ISOLATE OR SHUT–OFF EQUIPMENT OR BRANCH LINES. USE	3.02	INSTALLATION:
		GLOBE VALVES WHERE ADJUSTABLE FLOW OR THROTTLING IS REQUIRED.	А.	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. PROVIDE MALLEABLE IRON REMOVABLE SCREW-ON CAP ON BOTTOM OF DRIP POCKET.
	J.	GARBAGE CAN WASH VALVE 4 FEET ABOVE FLOOR OR DRAIN. PROVIDE PRV TO LIMIT MAXIMUM STATIC PRESSURE AT PLUMBING FIXTURES TO 70		BUY UNDERGROUND GAS PIPING MINIMUM OF 2 FEET BELOW FINISHED GRADE.
	К.	PSIG. SUBMIT PRESSURE DATA TAKEN AT DIFFERENT TIMES AS APPROVED OR INSTALL PRV AT SERVICE CONNECTION OR IN BUILDING. PROVIDE PRV AT OTHER SEPARATE FIXTURES WHEN SHOWN ON DRAWINGS.	В. С.	PROVIDE ONE OR MORE ANODES, SIZED FOR PIPE SIZE AND LENGTH OF UNDERGROUND SERVICE.
		MAKE PROVISIONS NECESSARY TO PREVENT CROSS CONNECTIONS WITH SANITARY DRAINAGE SYSTEM OR OTHER NON-POTABLE SOURCES. PROVIDE REDUCED PRESSURE	D.	USE FLEXIBLE CONNECTOR AND GAS COCK FOR FINAL CONNECTION TO EACH APPLIANCE OR OTHER GAS FUELED UNIT.
	L.	TYPE BACKFLOW PREVENTERS WHEN REQUIRED.	D.	PROVIDE DIELECTRIC UNION WHERE PIPING EMERGES FROM UNDERGROUND.
			E.	WELD ALL CONNECTIONS WHERE PIPING MUST BE CONCEALED. PROVIDE VENTILATED PIPE SLEEVES WHERE REQUIRED.
	3.03	TESTING:	F.	USE TEFLON TAPE OR OTHER APPROVED JOINT COMPOUND TO CONNECT THREADED PIPE.
	Α.	BEFORE CONCEALING OR INSULATING, TEST DOMESTIC WATER PIPING AND PROVE LEAK FREE. SUBJECT SYSTEM TO MINIMUM HYDROSTATIC PRESSURE OF 100 PSIG AND HOLD FOR ONE HOUR.	G.	ARRANGE WITH LOCAL UTILITY FOR GAS TAP AND METER INSTALLATION. PAY ALL COSTS TO ESTABLISH NATURAL GAS SERVICE.
S, CLASSES	7.04		Н.	. 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
	3.04 A.	STERILIZATION: AFTER TESTS HAVE BEEN SUCCESSFULLY COMPLETED, THOROUGHLY FLUSH AND	١.	DIAMETER OF THE PIPE. PROVIDE VENTILATED PIPE SLEEVES UNDER ALL PAVING AND OTHER HARD SURFACES.
	D	STERILIZE THE COMPLETED DOMESTIC WATER SYSTEM IN ACCORDANCE WITH AWWA C601.	J.	BOND INTERIOR METAL GAS PIPING TO THE ELECTRICAL SYSTEM GROUND. PIPING SHALL BE ELECTRICALLY CONTINUOUS.
	В.	FLUSH ENTIRE SYSTEM AFTER STERILIZATION UNTIL RESIDUAL CHLORINE CONTENT IS NO GREATER THAN 0.2 PARTS PER MILLION.	K	INSTALL CONTINUOUS STRIP OF PLASTIC UTILITY MARKER TAPE OVER GAS PIPING. USE STRIP WITH TRACE WIRE FOR PLASTIC PIPE.
	C.	CHLORINATE ONLY WHEN THE BUILDING IS UNOCCUPIED.		IDENTIFY AND LABEL MEDIUM PRESSURE GAS PIPING AT BOTH ENDS AND THE 6 FOOT INTERVALS IN BETWEEN.
	END OF	SECTION	M.	CONTRACTOR SHALL COORDINATE WITH LOCAL GAS COMPANY THE STANDARD GAS PRESSURE. SHOULD THE SYSTEM EXCEED THE STANDARD GAS PRESSURE AND USE
WATER				MEDIUM OR HIGH PRESSURE GAS CONTRACTOR SHALL PROVIDE A GAS REGULATOR AT EACH PIECE OF EQUIPMENT REQUIRING GAS SHOULD LOCATIONS NOT BE SHOWN ON
ROUGHT	NATURAL SECTION	GAS PIPING SYSTEM 15413	N.	. DRAWINGS. PROVIDE VENTING ACCORDINGLY SHOULD THE REGULATOR BE INSTALLED INSIDE THE BUILDING.
DUCTILE	PART 1	GENERAL		
FOR THE	1.01	WORK INCLUDED:		
	А. В.	UNDERGROUND NATURAL GAS SERVICE PIPING. INTERIOR NATURAL GAS PIPING.	3.03	TESTING:
FEET	C. D.	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 FOR 3 MINUTES.
PER IECTIONS	E.	COCKS.	_	CHECK UNDERGROUND PIPING COATING WITH A "HOLIDAY" DETECTOR AND PROVE FREE
	1.02	RELATED WORK:	В.	FROM LEAKAGE CURRENTS THROUGH COATING.
COPPER SOLDER	Α.	SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.	END OF	FSECTION
	1.03	SUBMITTALS:	INSULA	TION
EAS,	Α.	SUBMIT MANUFACTURER'S DATA SHEETS ON GAS COCKS.		N 15414
JILDING,	В.	SUBMIT LIST OF PIPING PRODUCTS TO BE USED AND STATE THEIR MANUFACTURERS, CLASSES OR TYPES, AND THERE APPLICABLE DATA.	1.01	GENERAL WORK INCLUDED:
TUBING SOLDER.	С.	SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION AND ROUTING OF PIPING AS INSTALLED.	А.	INSULATION MATERIALS.
ER	1.04	QUALITY ASSURANCE:	B. C, D.	ADHESIVES.
	Α.	CONFORM TO ASME CODE AND APPLICABLE STATE REGULATIONS WITH ALL WELDING MATERIALS AND WELDING OPERATOR'S QUALIFICATIONS. USE ONLY OPERATORS FULLY	E. F.	SEALANTS. FACTORY–APPLIED JACKETS.
		QUALIFIED AND CERTIFIED UNDER THE REQUIREMENTS OF THE ARKANSAS GAS PIPELINE CODE (AFPC).	G. H. I.	
ETS, /HICH			J. K.	SECUREMENTS. CORNER ANGLES.
	2.01	PRODUCTS PIPING:	1.02	RELATED WORK:
		UNDERGROUND PIPING:		A. SECTION 15000 GENERAL MECHANICAL REQUIREMENTS. B. SECTION 15005 MECHANICAL INSULATION.
		1. PLASTIC PIPE OR TUBING AND FITTINGS CONFORMING WITH ASTM D 2513. REINFORCED EPOXY RESIN GAS PIPE AND FITTINGS CONFORMING TO ASTM D		D. SECTION TODOS MECHANICAL INSCENTION.
		2517 FOR OUTSIDE UNDERGROUND USE ONLY. PLASTIC SHALL BE USED ONLY BELOW GRADE. PLASTIC PIPE AND FITTINGS SHALL BE JOINED BY	1.03	SUBMITTALS:
4		APPROVED METHODS AND MANUFACTURING INSTRUCTIONS. MILL COAT PIPE WITH HIGH DENSITY POLYETHYLENE OVER ADHESIVE UNDERCOATING.		 A. PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED. B. SHOP DRAWINGS DETAILING APPLICATION OF PROTECTIVE SHIELDS, SADDLES, AND
Ĺ		2. WRAP FIELD JOINTS AND FITTINGS WITH REPUBLIC "X-TRU-TAPE" OR EQUAL PER MANUFACTURER'S RECOMMENDATIONS.		INSERTS AT HANGERS FOR EACH TYPE OF INSULATION AND HANGER.
		3.		DETAIL ATTACHMENT AND COVERING OF HEAT TRACING INSIDE INSULATION. C. DETAIL INSULATION APPLICATION AT PIPE EXPANSION JOINTS FOR EACH TYPE OF
				INSULATION. D.
	В.	ABOVE GROUND PIPING: 1. SCHEDULE 40 BLACK STEEL OR GALVANIZED STEEL WITH MALLEABLE IRON		DETAIL INSULATION APPLICATION AT ELBOWS, FITTINGS, FLANGES, VALVES, AND SPECIALTIES FOR EACH TYPE OF INSULATION. E.
)		FITTINGS OR WELDED JOINTS WITH BUTTWELD FITTINGS. STAINLESS STEEL TUBING, FITTINGS, AND ACCESSORIES SHALL BE TESTED,		DETAIL REMOVABLE INSULATION AT PIPING SPECIALTIES, EQUIPMENT CONNECTIONS, AND ACCESS PANELS.
		2. LISTED, AND INSTALLED PER ANSI/AGA LC-1, MFPA AND FACTORY MUTUAL. SHALL HAVE POLYETHYLENE JACKET. SHALL MEET STATE AND LOCAL		F. DETAIL APPLICATION OF FIELD-APPLIED JACKETS.
T		APPROVALS. SHALL BE EQUAL TO TRACE PIPE BY OMEGA FLEX.		G. DETAIL APPLICATION AT LINKAGES OF CONTROL DEVICES.
,	0	CONNECTORS FOR APPLIANCES AND OTHER EQUIPMENT:		H. DETAIL FIELD APPLICATION FOR EACH EQUIPMENT TYPE.I. FIELD QUALITY-CONTROL REPORTS.
)	υ.	1. PVC COOLED SPIRAL FLEXIBLE BRASS CONNECTOR WITH BRASS FLARED GAS		J.
S		TUBING FITTINGS.	PART 1	GENERAL
	D. -	CATHODIC PROTECTION - PACKAGED MAGNESIUM ANODES.	2.01	PRODUCTS:
ED	E.	WELDING ROD — SAME MATERIAL AS PIPE.	A.	
RGE	2.02	GAS COCKS:		1. PRODUCTS SHALL NOT CONTAIN ASBESTOS, LEAD, MERCURY, OR MERCURY COMPOUNDS.
OME	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 50 PPM WHEN TESTED
AT	PART 3 E	EXECUTION:		ACCORDING TO ASTM C 871.
L		REPARATION:		 INSULATION MATERIALS FOR USE ON AUSTENITIC STAINLESS STEEL SHALL BE QUALIFIED AS ACCEPTABLE ACCORDING TO ASTM C 795.
	A. R	REAM PIPES AND TUBING PRIOR TO CONNECTION.		FOAM INSULATION MATERIALS SHALL NOT USE CFC OR HCFC BLOWING 4. AGENTS IN THE MANUFACTURING PROCESS.
	B. <i>R</i>	EMOVE WELDING SLAG FROM WELDED CONNECTIONS.		

	 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. 		
	SUBJECT TO COMPLIANCE WITH LOCAL REQUIREMENTS:		
	A. FLEXIBLE ELASTOMERIC: CLOSED-CELL, SPONGE OR EXPANDED-RUBBER MATERIALS.		
	B. HIGH-TEMPERATURE, MINERAL-FIBER BLANKET INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN.		
	HIGH-TEMPERATURE, MINERAL-FIBER BOARD INSULATION: MINERAL OR GLASS C. FIBERS BONDED WITH A THERMOSETTING RESIN.		OWNER
	MINERAL-FIBER, PERFORMED PIPE INSULATION.		DICKINSON FINANCIAL CORPORATION 1111 MAIN STREET #1600
	D. MINERAL-FIBER, PIPE AND TANK INSULATION. MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. E.		KANSAS CITY, MO 64105 816.472.5244
	POLYOLEFIN: UNICELLULAR, POLYETHYLENE THERMAL PLASTIC INSULATION. F. POLYSTYRENE: RIGID, EXTRUDED CELLULAR POLYSTYRENE INTENDED FOR		ARCHITECT GENERATOR STUDIO LLC
	USE AS THERMAL INSULATION. G.		1615 BALTIMORE AVE KANSAS CITY, MO 64108 816.333.6527
			GENERATORSTUDIO.COM
2.02 A. 2.03	INSULATING CEMENTS: MINERAL-FIBER, HYDRAULIC-SETTING INSULATING AND FINISHING CEMENT: COMPLY WITH ASTM C 449/C 449M. ADHESIVES:		SOUTHWIND GROUP 1218 ENERGY DRIVE ABILENE, TX 79602 325.695.1111
2.03 A.	ADRESIVES: MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS, JACKETS, AND SUBSTRATES AND FOR BONDING INSULATION TO ITSELF AND TO SURFACES TO BE INSULATED, UNLESS OTHERWISE INDICATED.		SOUTHWINDGRP.COM
	 CELLULAR-GLASS POLYSTYRENE. FLEXIBLE ELASTOMERIC AND POLYOLEFIN. MINERAL-FIBER. POLYSTYRENE. ASJ, FSK, AND PVDC JACKET ADHESIVE. 		
2.04	6. PVC JACKET. MASTICS:		
A. B.	VAPOR-BARRIER MASTIC BREATHER MASTIC.		
2.05 A. B.	SEALANTS: JOIN SEALANT. FSK AND METAL JACKET FLASHING SEALANT. ASJ FLASHING SEALANT AND VINYL, PVDC, AND PVC JACKET FLASHING SEALANT.		
2.06	FACTORY-APPLIED JACKETS:		
A. B.	ASJ ASJ–SSL FSK		ARCHITECT: MIKE KRESS
D. E.	PVDC JACKET FOR INDOOR APPLICATIONS PVDC JACKET FOR OUTDOOR APPLICATIONS		LICENSE NO. 5715
F. 2.07	PVDC-SSL JACKET FIELD-APPLIED FABRIC-REINFORCING MESH:		
A. 2.08	WOVEN POLYESTER FABRIC FIELD-APPLIED JACKETS:		105/2024 05/100100000000000000000000000000000000
2.00 A. B.	PVC JACKET ALUMINUM JACKET		DANNY A ST
С. 2.09	UNDERGROUND DIRECT-BURIED JACKET		EUGENE DOSS NUMBER E-21634
2.09 A. B	ASJ		
D. C. D.	FSK PVC ALUMINUM-FOIL		PROFESS IONAL INTERNET
E. 2.10	PVC SECUREMENTS:		SEAL
	ALUMINUM BANDS INSULATION PINS AND HANGERS		
D.	NONMETAL, ADHESIVELY ATTACHED, PERFORATED-BASE INSULATION HANGERS SELF-STICKING BASE INSULATION HANGERS INSULATION-RETAINING WASHERS		ACADEMY BANK
E. F. G.	NONMETAL INSULATION—RETAINING WASHERS STAPLES WIRE		BRANCH:
H. 2.11	CORNER ANGLES:		LEE'S SUMMIT
А. В.	PVC CORNER ANGLES ALUMINUM CORNER ANGLES		2070 NW Lowenstein Dr
PART 3	EXECUTION		Suite A
3.01	PREPARATION		LEE'S SUMMIT, MO 64081
А.	SURFACE PREPARATION: CLEAN AND DRY SURFACES TO RECEIVE INSULATION. REMOVE MATERIALS THAT WILL ADVERSELY AFFECT INSULATION APPLICATION. COORDINATE INSULATION INSTALLATION WITH THE TRADE INSTALLING HEAT		
	COORDINATE INSULATION INSTALLATION WITH THE TRADE INSTALLING HEAT TRACING. COMPLY WITH REQUIREMENTS FOR HEAT TRACING THAT APPLY TO INSULATION. MIX INSULATING CEMENTS WITH CLEAN POTABLE WATER; IF INSULATING CEMENTS ARE TO BE IN CONTACT WITH STAINLESS-STEEL SURFACES, USE		PERMIT SET
0.	DEMINERALIZED WATER.		ISSUE DATE: 05.30.24 REV DESCRIPTION DATE
3.02	GENERAL INSTALLATION REQUIREMENTS:		
А.	INSTALL INSULATION MATERIALS, ACCESSORIES AND FINISHES WITH SMOOTH, STRAIGHT, AND EVEN SURFACES; FREE OF VOIDS THROUGHOUT THE LENGTH OF EQUIPMENT AND PIPING INCLUDING FITTINGS, VALVES, AND SPECIALTIES.	PRIOR TO BID/START OF CONSTRUCTION REQUIREMENTS THESE DOCUMENTS ARE	
	INSTALL INSULATION MATERIALS, FORMS, VAPOR BARRIERS OR RETARDERS, JACKETS, AND THICKNESS' REQUIRED FOR EACH ITEM OF EQUIPMENT AND PIPE SYSTEM	DIAGRAMMATIC IN NATURE AND IN SOME CASES, BASED ON INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR	
	PIPE SYSTEM. INSTALL ACCESSORIES COMPATIBLE WITH INSULATION MATERIALS AND SUITABLE FOR THE SERVICE.	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	
END OF	SECTION	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.	PROJECT NO. 16014 DRAWN BY:
		ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OR FAILURE TO VISIT THE SITE PRIOR	CHK'D BY: SHEET TITLE
	PO BOX 427 ROGERS, AR 72756	TO BID, SHALL NOT BE AUTHORIZED OR COMPENSATED. COORDINATE ALL LOUVER SIZES AND LOCATIONS PRIOR TO START OF	
ADI	ANCED CONSULTING ENGINEERS PH 479-631-1712	CONSTRUCTION. LAYOUT ALL EQUIPMENT IN MECHANICAL ROOM TO ENSURE PROPER SPACE AND CLEARANCES ARE AVAILABLE.	P-700
	FX 479-631-1854	CONTACT ARCHITECT IMMEDIATELY	

 ADVANCED CONSULTING ENGINEERS
 PH 479.631.1712
 EQUIPMENT IN MECHANICAL ROOM TO ENSURE PROPER SPACE AND CLEARANCES ARE AVAILABLE.

 MECHANICAL
 ELECTRICAL
 INDUSTRIAL
 FX 479.631.1854
 CLEARANCES ARE AVAILABLE.

 MECHANICAL
 ELECTRICAL
 INDUSTRIAL
 ACEI@ADVENGINEERS.COM
 WITH ANY ISSUES.

LEGEND

	CONDUIT AND WIRE CONCEALED IN WALL OR ABOVE CEILING
	CONDUIT AND WIRE CONCEALED UNDERFLOOR OR UNDERGROUND
ою б	LUMINAIRE SYMBOLS. SEE LUMINAIRE SCHEDULE FOR SPECIFIC FIXTURES.
\$	SINGLE POLE, SINGLE THROW LIGHT SWITCH, 20A (WP = WEATHERPROOF COVER)
\$ ₃ \$	THREE-WAY LIGHT SWITCH, 20A SINGLE POLE, SINGLE THROW LIGHT SWITCH WITH AUTO SENSOR
\$ _{AS} ⊄	SINGLE POLE, SINGLE THROW LIGHT SWITCH WITH AUTO SENSOR
\$ _{PL} \$ _{PB}	PUSHBUTTON DOOR BELL ACTIVATOR
¢₽₿	TIMER SWITCH
\$ _D	DIMMER SWITCH
\$ _V	VARIABLE SPEED FAN CONTROL SWITCH
$\stackrel{v}{\ominus}$	SINGLE RECEPTACLE, GROUNDED
\$	DUPLEX RECEPTACLE, GROUNDED
₽ _{IG}	DUPLEX RECEPTACLE, ISOLATED GROUND
⊕ _{GFCI} ⊕GFCI	DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTION (GFCI)
WP	DUPLEX RECEPTACLE, GFCI WITH WEATHERPROOF COVER
⊡	DUPLEX RECEPTACLE, WITH (2) USB PORTS FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE
D D	SPECIAL PURPOSE RECEPTACLE AS NOTED
\mathbf{V}^{C}	TELEVISION CABLE OUTLET WITH 3/4" C.O. TO MATV J–BOX
\mathbf{V}^{H}	HIGH DEFINITION TV OUTLET WITH (3) CAT6
	CABLES
FACP	FIRE ALARM SYSTEM CONTROL PANEL
F	FIRE ALARM SYSTEM PULL STATION
	FIRE ALARM SYSTEM MINI-HORN/STROBE COMBINATION, GUESTROOM
	FIRE ALARM SYSTEM STROBE FIRE ALARM SYSTEM HORN/STROBE
) (B)	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR, GUESTROOM
(30)	FIRE ALARM SYSTEM SMOKE DETECTOR
DSD	FIRE ALARM SYSTEM DUCT MOUNT SMOKE DETECTOR
	FIRE ALARM SYSTEM THERMAL DETECTOR
(FSD) OFFSD	120V CONNECTION TO FIRE/SMOKE DAMPER
X	DOORBELL CHIME WITH ALERT LIGHT JUNCTION BOX
0 ①	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
T	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
	CONTACTOR
TS]	TIME SWITCH
\$	MOTOR CONNECTION
\$ _M	MOTOR RATED SWITCH
	CONNECTION TO ELECTRONIC CARD READER/DOOR RELEASE
	CLOSED CIRCUIT SECURITY CAMERA
<u> </u>	ELECTRO-MAGNETIC DOOR HOLDER
	SPEAKER - CEILING

NEC GEN

- . WHERE THE CONDUCTORS IN A RACE AMPACITY OF EACH CONDUCTOR SHA (310.15(B)(2))
- 2. WHERE THE CONDUCTORS OR CABLES SUNLIGHT ON OR ABOVE ROOFTOPS SHALL BE RED
- 3. WHERE TWO DIFFERENT AMPACITIES AMPACITY SHALL BE PER THE 310.15(2) EXCEP
- 4. WHERE THE MAXIMUM AMBIENT TEMP CORRECTION FACTORS SHALL APPLY TO CONDUCT
- 5. INDICATE WHICH WIRING METHODS (E. INSTALLED AT ANY/ALL LOCATIONS ON THE PLA
- 6. NOT USED
- 7. NOT USED
- ^{8.} EACH MULTI-WIRE BRANCH CIRCUIT SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED COND ORIGINATES. (210.4(B)).

9. ALL WORK TO COMPLY WITH NATIONA

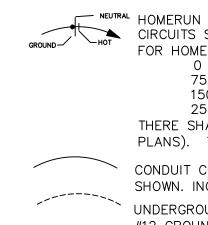
- 10. THE UNGROUNDED AND GROUNDED CO SHALL BE GROUPED BY WIRE TIES OR SIMILAR PANELBOARD OR OTHER POINT OF ORIGINATION. (2
- 11. PROVIDE SEPARATE SUBMITTAL, OBTA APPROVALS FOR ALL FIRE ALARM SYSTEM INSTALLATION ALL INSTALLED EQUIPMENT SHALL BE TESTING LABORATORY.
- 12. ALL INSTALLED EQUIPMENT AND MATE THE INTENDED PURPOSE.
- 13. ALL EQUIPMENT TO BE U.L. LISTED C
- 14. FIELD VERIFY SERVICE RECEPTACLE I

EQUIPMENT. (210.63)

- 15. MULTIPLE RACEWAYS CONTAINING MOR COMPLY WITH [2017, NEC, 310.15(B)(2)(A)].
- 16. WHERE THE DISCONNECTS ARE NOT SUPPLIES, THE SWITCH OR CIRCUIT E LOCK, AND THESE PROVISIONS MUST
- PROVISIONS HAVE TO BE PART OF T 17. DESIGN OR AS AN ACCESSORY FEAT [410.141(B), 422.31(B), 424.19, 440.1 600.6(A)(2)(3), 620.51(A) EXCEPTION
- 18. LIGHT FIXTURE IN CONTACT WITH INSU PROVIDE 3" MINIMUM CLEARANCE.
- 19. LIGHTS AND PANELS SHALL NOT BE WITH EQUIVALENT CONSTRUCTION.
- 20. MOUNT THE FOLLOWING ABOVE FINISH OUTLETS- 18" TO 48"
- SWITCHES- 36" TO 48" THERMOSTATS- 36" TO 48" MEASURED FROM BOTTOM & TOP OF
- 21. PANEL CIRCUIT DIRECTORY TO COMPL
- 22. W.P. COVER OF OUTLETS TO COMPLY

APPLICABL

- CODES:
- NATIONAL ELECTRICAL CODE 20 COMPLY WITH LOCAL JURISDIC



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.

IERAL NOTES:	ABBREVIATIONS	$\sum_{i=1}^{n}$
EWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE ALL BE REDUCED PER TABLE 310.15(B)(2). S ARE INSTALLED IN CONDUITS EXPOSED TO DIRECT DUCED PER TABLE 310.15(B)(2)(C). APPLY TO ADJACENT PORTIONS OF A CIRCUIT, THE PTION. PERATURE IS OVER 30°C, (86°F), THE REFERENCED TORS. (TABLE 310.16 TO 19) .G., FMC, EMT, AC, IMC, RMC, ETC.) ARE TO BE ANS. (CHAPTER 9, TABLES 4, 5 &5A, APPENDIX C) SHALL BE PROVIDED WITH A MEANS THAT WILL DUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT	AAMPEREGNDACALTERNATING CURRENT, ABOVE COUNTERGRSAFFABOVE FINISHED FLOORHIDAICAMPS INTERRUPTING CAPACITYHPALALUMINUMHTAMPAMPEREKCMILAWGAMERICAN WIRE GAUGEKECBKRBREAKERKVABLDGBUILDINGKWBOHBACK OF HOUSELTGCCOLD or CONDUITMFRCKTCIRCUITMINCOCONDUT/RACEWAY ONLYMLOCTCURRENT TRANSFORMERNCUCOPPERNECCWCOOL WHITENEMADCODUPLEX CONVENIENCE OUTLETNTDNDOWNNTSEXISTEXISTINGPNLEFEXHAUST FANPOCELECELECTRICALPTEMTELECTRICALPTEMTELECTRICALPTEMTELECTRICALPTEMTELECTRICALPTEMTELECTRICALPTEMTELECTRICALPTEMTELECTRICALPTEMTELECTRICALPTEMTELECTRICALPTEMTELECTRICALPTEMTELECTRICALPTEMTELECTRICALPTEMTELECTRICALPTEMTELECTRICALPTEMTELECTRICALPTEMTELECTRICALPTEMTELECTRICALPTEMT	GROUND GALVANIZED RIGID STEE HIGH INTENSITY DISCHAF HORSEPOWER HEAT TRACE THOUSAND CIRCULAR M KITCHEN EQUIPMENT CO KILOVOLT AMPERES KILOWATT LIGHTING MANUFACTURER MINIMUM MAIN LUGS ONLY NEUTRAL NATIONAL ELECTRICAL NATIONAL ELECTRICAL NATIONAL ELECTRICAL NATIONAL ELECTRICAL NEON TRANSFORMER NOT TO SCALE PANEL POINT OF CONNECTION POTENTIAL TRANSFORME POLYVINYL CHLORIDE POWER QUANTITY RECEPTACLE ROUGH—IN ROOM
	GENERAL NOTES	
AL ELECTRIC CODE 2020. CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT	1. PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, LOCAL CODES, ORDINANCES AND REQUIREMENTS OF UTILITY COMPANIES FURNISHING SERVICES TO INSTALLATION.	
MEANS IN AT LEAST ONE LOCATION WITHIN THE 210.4(D)) AIN ALL REQUIRED PERMITS, INSPECTIONS AND	2, PROVIDE ITEMS NECESSARY TO COMPLETE ELECTRICAL SYSTEMS. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY CONDUIT, BOX, CONDUCTOR OR SIMILAR ITEMS FOR A COMPLETE INSTALLATION.	
ONS AND / OR MODIFICATIONS E LISTED AN APPROVED BY A CITY APPROVED ERIAL SHALL BE NRTL LISTED AND APPROVED FOR	3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND DETERMINE CONDITIONS WHICH MAY AFFECT BID. ANY ITEMS NOT FULLY UNDERSTOOD SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING. PLANS ARE BASED ON OUR BEST UNDERSTANDING OF EXISTING CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL RELEVANT EXISTING CONDITIONS.	
DR EQUIVALENT. S PROVIDED WITHIN 25' OF MECHANICAL	 4. "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, OR MECHANICAL). 	
DRE THAN 2 CURRENT CARRYING CONDUCTORS SHALL	 WHEREVER THE WORD "PROVIDE" IS USED, IT MEANS, "FURNISH AND INSTALL COMPLETE AND READY FOR USE." COORDINATE LOCATION OF ELECTRICAL WITH OTHER TRADES. 	
PROVIDED WITHIN SIGHT FROM THE EQUIPMENT IT BREAKER MUST INCLUDE PROVISIONS FOR ADDING A REMAIN WITH THE EQUIPMENT. THESE LOCKING THE EQUIPMENT, EITHER INHERENT TO THE EQUIPMENT URE THAT CAN BE INSTALLED ON THE EQUIPMENT. 14 EXCEPTION NO. 1, N NO. 1, 620.53, 620.55]	 REFER TO EQUIPMENT DRAWINGS FOR MECHANICAL CHARACTERISTICS (SIZE, LOCATION, ETC.) OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED. PROVIDE CONDUCTORS AND RACEWAYS PER NATIONAL ELECTRICAL CODE. REFER TO ARCHITECTURAL DRAWINGS FOR KEY PLANS. ALL DIMENSIONS SHALL BE PER THE ARCHITECTURAL DRAWINGS. PRIOR TO PROVIDING CABLES FOR TV, CONFIRM REQUIREMENTS WITH ARCHITECT. 	SHEET NUMBE E-000 E-100 E-101 E-600
ULATION TO BE U.L. LISTED FOR THERMAL BARRIER OR	12. NEW ELECTRICAL BOXES LOCATED IN WALLS SEPARATING TWO ROOMS SHALL NOT BE LOCATED "BACK TO BACK". INSTALL PUTTY PACKS BEHIND NEW BOXES FOR SOUND ATTENUATION.	E-700
RECESSED IN FIRE RATED ASSEMBLIES UNLESS BOXED, HED FLOOR:	 13. ALL RECEPTACLES AND SWITCHES SHALL BE BETWEEN 18" AND 48" AFF. ADJUST HEIGHT AS REQUIRED TO MEET ADA. 14. NOT USED 	
BOXES RESPECTIVELY. LY WITH SECTION 408.4, NEC. WITH SECT. 406.8 (B) (I), NEC.	 CONTRACTOR TO INSTALL FLUSH MOUNT ALL RECEPTACLES BOXES IN FINISHED WALLS THROUGHOUT. CONTRACTOR TO LABEL PROPERLY ALL SERVICES AND UNIT PANELS. CONTRACTOR TO INSTALL WET RATED ALARM WIRE IN UNDER GROUND INSTALLATIONS . 	
_E CODES	18. NOT USED19. NOT USED	
2017 TION REQUIREMENTS		
VOLTAGE DRC	PNOTES:	

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

0 - 75 Feet -----#12 AWG 75 - 150 Feet -----#10 AWG 150 - 250 Feet -----# 8 AWG 250 - 350 Feet ----# 6 AWG

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).

ID NIZED RIGID STEEL ITENSITY DISCHARGE POWER TRACE	RO SHT SPEC SW SWBD
AND CIRCULAR MILLS	SWGR
N EQUIPMENT CONTRACTOR	TE
DLT AMPERES	TYP
ATT IG	UC
ACTURER	UG
M	UL
LUGS ONLY	UON
AL	V
NAL ELECTRICAL CODE (NFPA-70)	W
NAL ELECTRICAL MANUFACTURERS ASSOCIATION	WW
TRANSFORMER	WP
O SCALE	W/
OF CONNECTION	W/O XFMR
TIAL TRANSFORMER	XFR

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

SHEET INDEX

SHEET NUMBER

SHEET NAME

Ζ

ELECTRICAL LEGEND & ABBREVIATIONS LIGHTING PLAN POWER PLAN

ELECTRICAL SCHEDULES SPECIFICATIONS

ROGERS, AR 72756 PRIOR TO START OF

INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTO 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 T 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 OR 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 BID/START OF CONSTRUCTION REQUIREMENTS

THESE DOCUMENTS ARE

SOME CASES, BASED ON

DIAGRAMMATIC IN NATURE AND IN

PH 479.631.1712 EQUIPMENT IN MECHANICAL ROOM TO ENSURE PROPER SPACE AND FX 479.631.1854 CLEARANCES ARE AVAILABLE. WITH ANY ISSUES.



DICKINSON FINANCIAL CORPORATION 1111 MAIN STREET #1600 KANSAS CITY, MO 64105 816.472.5244

ARCHITECT GENERATOR STUDIO LLC 1615 BALTIMORE AVE KANSAS CITY, MO 64108 816.333.6527 GENERATORSTUDIO.COM

CONTRACTOR SOUTHWIND GROUP 1218 ENERGY DRIVE ABILENE, TX 79602 325.695.1111 SOUTHWINDGRP.COM

ARCHITECT: LICENSE NO. MIKE KRESS

5715



SEAL

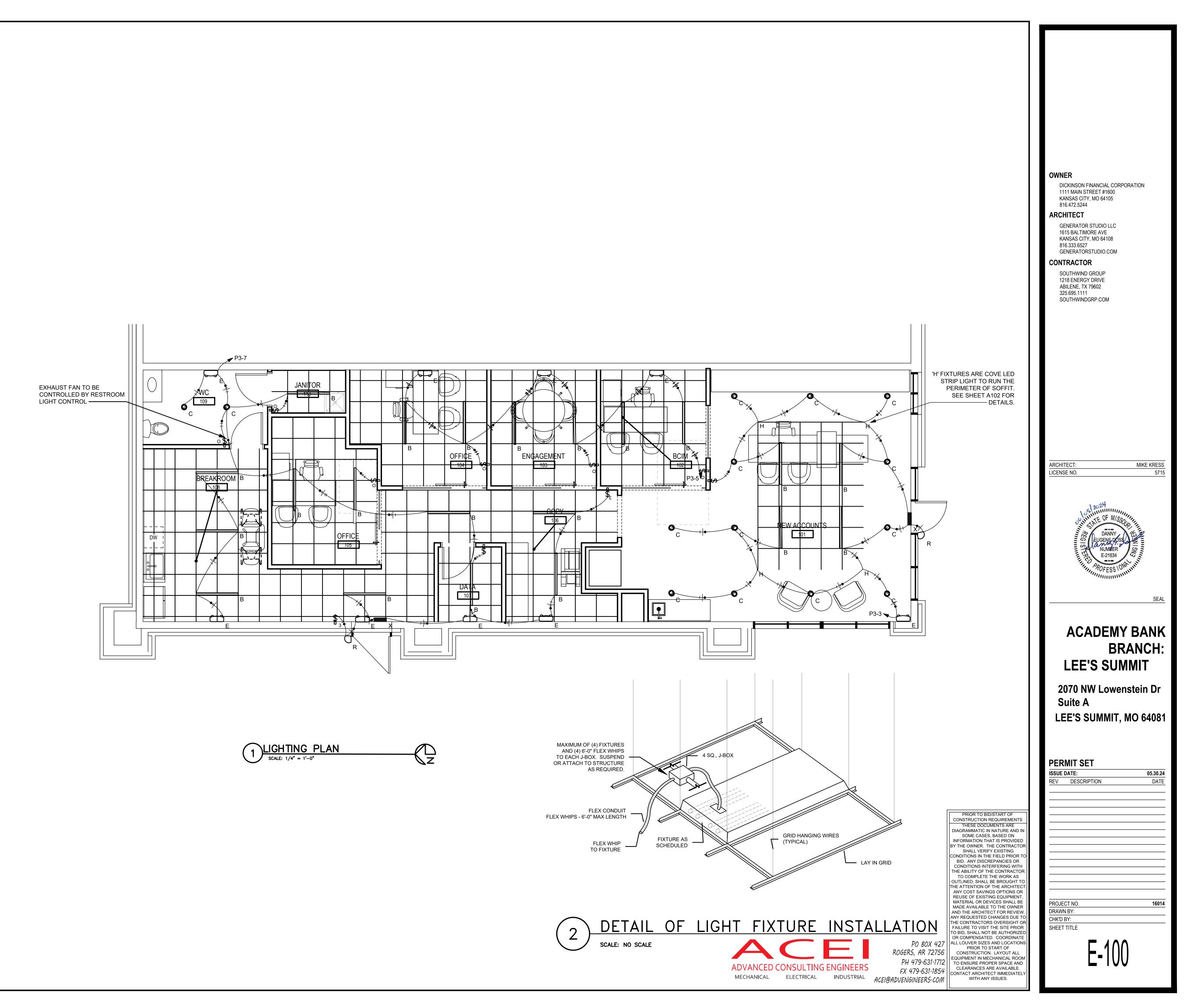
ACADEMY BANK **BRANCH: LEE'S SUMMIT**

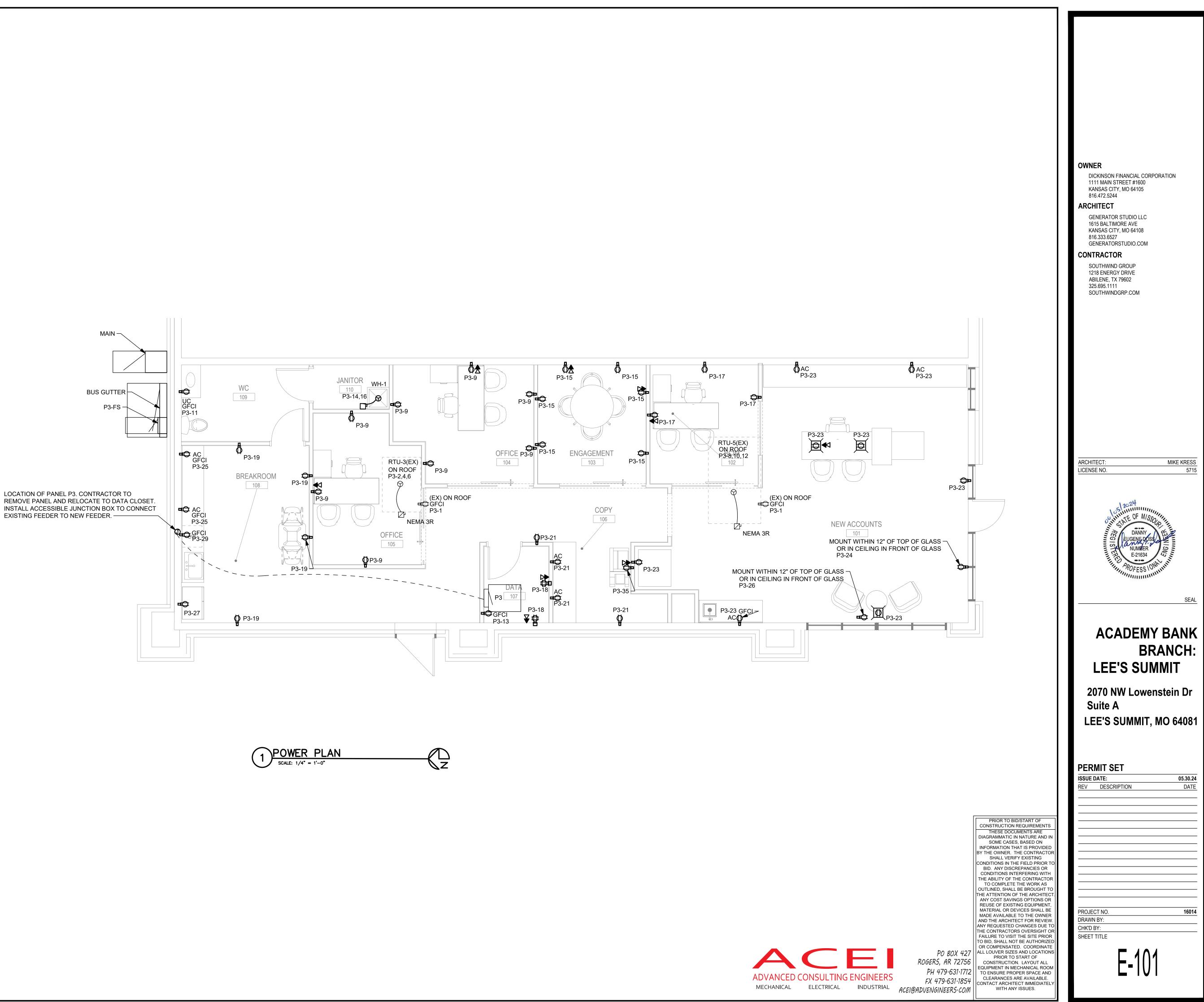
2070 NW Lowenstein Dr Suite A LEE'S SUMMIT, MO 64081

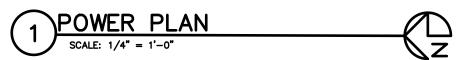
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PROJE	CT NO.	16014
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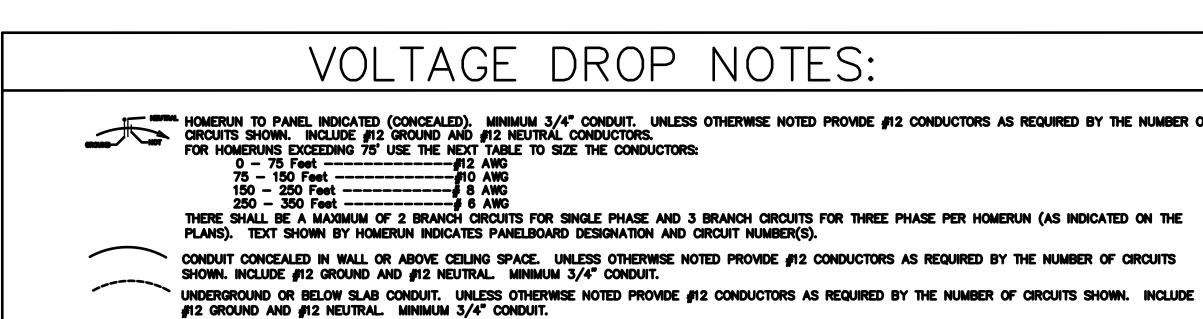


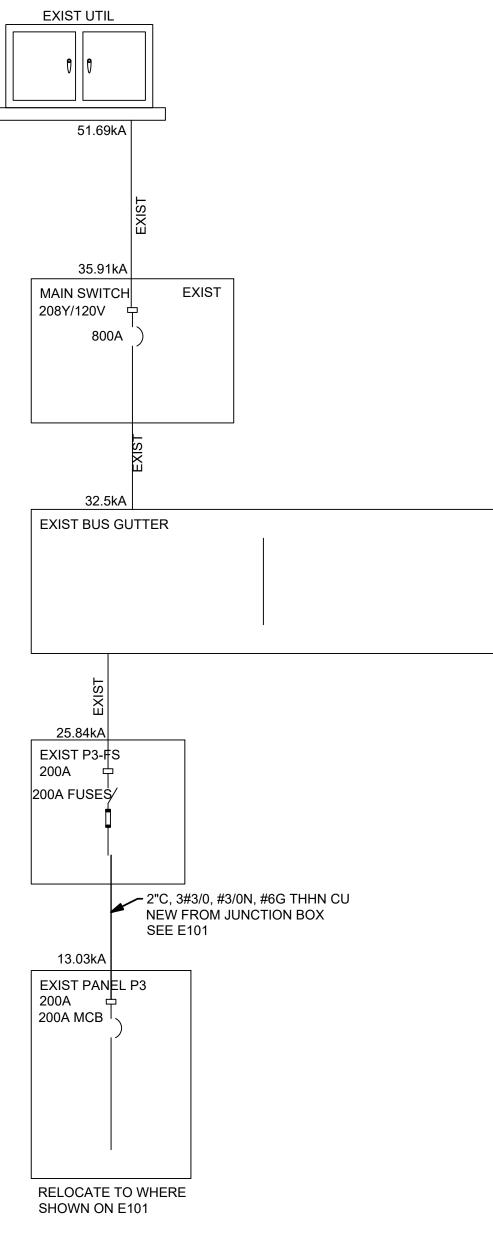
UTIL

Т

i								
LUMINAIRE SCHEDULE								
CALLOUT	SYMBOL	MODEL	INPUT WATTS					
В		Lithonia Lighting, ZL1N L48 5000LM FST MVOLT 40K 80 CRI	34.31					
С	O	Lithonia Lighting, ZL2N L24 2000LM MDD XX 40K 80CRI XX	35.01					
E		Lithonia Lighting, ELM6L	8.4					
Н		Flexfire LEDs Colorbright Natural White Strip	55					
R	D	Lithonia Lighting, MR24 K0606	5.4					
X		Lithonia Lighting, ECB LED	2.32					

EQUIPMENT SCHEDULE									
CALLOUT	CALLOUT SYMBOL VOLTS AMPS BREAKER CIRCUIT								
RTU-3(EX)	⊘ 2 208∨ 3P 3W		28	35/3	P3-2,4,6				
RTU-5(EX)	Ď Ø	208V 3P 3W	35	50/3	P3-8,10,12				
WH-1	ت ص	208V 2P 2W	21.63	30/2	P3-14,16				

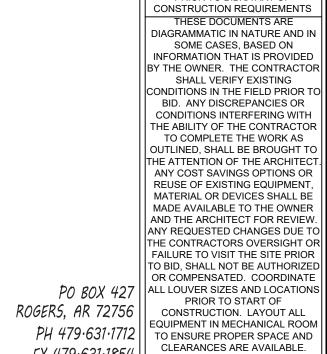




	TING FLUSH FROM P3-FS		BUS	_TS 208Y 5 amps 2 Jtral 10	200	5P 4W			AIC 22,000 Main BKR 2 Lugs Stani		
KT #	BREAKER TRIP/POLES	CIRCUIT DESCRIF	PTION		A	_OAD V/ B	A C	FEEDER F	RACEWAY ANI	CONDUCTOR	RS
1 3 5 7	20/1 20/1 20/1 20/1	MAINT RECEPTAG LIGHTING LIGHTING LIGHTING	CLE		360 497	793	231	1/2"C,1# 1/2"C,1#	12,#12N,#12G 10,#10N,#10G 10,#10N,#10G 10,#10N,#10G		
9 1 3 5	20/1 20/1 20/1 20/1	OFFICE 104 & 1 FAUCET SENSOR MAINT RECEP ENGAGEMENT RE		CLES	180	1,440	180	1/2"C,1# 1/2"C,1# 1/2"C,1#	12,#12N,#12G 12,#12N,#12G 12,#12N,#12G 12,#12N,#12G		
7 9 1 3	20/1 20/1 20/1 20/1	BCIM RECEPTACI BREAKROOM REC COPY ROOM REC NEW ACCOUNTS	CEPTACLES CEPTACLES RECEPTACLES	6	720	720	540 1,440	1/2"C,1# 1/2"C,1# 1/2"C,1#	12,#12N,#12G 12,#12N,#12G 12,#12N,#12G 12,#12N,#12G		
5 7 9 31	20/1 20/1 20/1 -/1	BREAKROOM GFC FRIDGE – GFCI DISHWASHER RE SPACE	BREAKER		360 0	1,000	1,300	1/2"C,1#	12,#12N,#12G 12,#12N,#12G 12,#12N,#12G		
55 57 59	-/1 20/1 -/1 -/1	SPACE COPIER RECEPTA SPACE SPACE	ACLE		ο	0	1,000	1/2"C,1#	12,#12N,#12G		
11 2	-/1 35/3	SPACE RTU-3(EX)			 3,360	 	0	 3/4"C,3#	ŧ8,# 10G		1
4 5 8 0	 50/3	RTU–5(EX)			4,200	3,360 4,200	3,360	3/4"C,3#	₩6,#10G		
2 4 6	 30/2 	WH—1			2,250	2,250	4,200	1/2"C,2#	10, # 10G		
8 20 22	20/1 -/1 -/1	DATA RECEPTAC SPACE SPACE			0	0	720		12,#12N,#12G		
24 26 28	20/1 20/1 -/1	SHOW WINDOW F SHOW WINDOW F SPACE			1,230	0	1,230		12,#12N,#12G 12,#12N,#12G		
30 32 34 36	-/1 -/1 -/1 -/1	SPACE SPACE SPACE SPACE			0	0	0				
38 40 42	-/1 -/1 -/1	SPACE SPACE SPACE			0	0	0				
		TOTAL CON	NECTED VA B	BY PHASE	13,200	14.800	14,200				
	ITING GEST MOTOR	CONN VA 1,520 12,600	CALC VA 1,900 3,150	- (125%) (25%)		MOT	ORS EPTACLE TINUOUS	ES	CONN VA 22,700 13,500 4,500	CALC VA 22,700 11,800 5,630	- (100%) (50%>10) (125%)
						тот	AL LOAD	·PHASE LOA		45,100 125 A	_ ` ` '

1 SINGLE LINE DIAGRAM

_	-	_			
RED	BY	THE	NUMBER	OF	



PRIOR TO BID/START OF



FX 479.631.1854 WITH ANY ISSUES.

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LEE'S SUMMIT 2070 NW Lowenstein Dr Suite A LEE'S SUMMIT, MO 6408 ²
PERMIT SET ISSUE DATE: 05.30.24 REV DESCRIPTION DATE
PROJECT NO. 16014 DRAWN BY: CHK'D BY: SHEET TITLE E-600

	16010 BASIC ELECTRICAL REQUIREMENTS		
	GENERAL		GENERAL
1.01 A.	SECTION INCLUDES BASIC ELECTRICAL REQUIREMENTS SPECIFICALLY APPLICABLE TO	1.01 A.	SECTION INCLUDES BUILDING WIRE AND CABLE.
	DIVISION 16, IN ADDITION TO DIVISION 1 - GENERAL REQUIREMENTS.	B. 1.02	WIRING CONNECTORS AND CONNE PROJECT CONDITIONS
1.02 A.	SUBMITTALS SUBMIT UNDER PROVISIONS OF ARCHITECTURAL SPECIFICATIONS.		VERIFY THAT FIELD MEASUREMEN CONDUCTOR SIZES ARE BASED C
	SUBMIT THE FOLLOWING PRODUCTS: 1. WIRING DEVICES AND COVER PLATES. 2. DISCONNECT SWITCHES.		PRODUCTS
	 ANELBOARDS. LIGHT FIXTURES. 	2.01	MANUFACTURERS GENERAL ELECTRIC, ROME, HATFI
C.	INDICATE MANUFACTURER'S NAME AND COMPLETE CATALOG NUMBER WITH THE LABEL OR NUMBER OF THE EQUIPMENT, AS DESIGNATED ON DRAWINGS, ADJACENT THERETO.	2.02	TRIANGLE, ANACONDA.
D.	SUBSTITUTIONS: WHERE A SPECIFIC MANUFACTURER OR TRADE NAME IS MENTIONED IN THE SPECIFICATION, IT IS TO ESTABLISH A STANDARD OF QUALITY. SUBSTITUTIONS FOR SPECIFIED EQUIPMENT	A.	DESCRIPTION: SINGLE CONDUCT
	ARE ALLOWED ONLY WHEN SUBSTITUTIONS OR APPROVED EQUALS ARE NOTED. SUBSTITUTION OF OTHER MAKES SHALL BE APPROVED BY	В. С. D.	CONDUCTOR: COPPER. INSULATION VOLTAGE RATING: 6 INSULATION: ANSI/WFPA 70: T
1.03	THE ARCHITECT\ENGINEER AND/OR OWNER, 10 DAYS PRIOR TO BIDS. REGULATORY REQUIREMENTS		INSULATION FOR FEEDERS AND E 8 AWG. TYPE THHN/THWN INSU CIRCUITS 8 AWG AND SMALLER.
	CONFORM TO APPLICABLE BUILDING CODES.		CONDUIT SIZE IS INCREASED FOF 8 AWG AND SMALLER.
1.04 A.	PROJECT\SITE CONDITIONS VISIT THE SITE, EXAMINE AND VERIFY THE CONDITIONS UNDER	PART 3 3.01	EXECUTION WIRING METHODS
	WHICH WORK MUST BE CONDUCTED BEFORE SUBMITTING A PROPOSAL. THE SUBMITTING OF A PROPOSAL IMPLIES THAT THE CONTRACTOR HAS VISITED THE SITE, IS CONVERSANT WITH ALL SITE	A.	USE ONLY BUILDING WIRE IN RAUUSE WIRING METHODS INDICATED
	CONDITIONS, INCLUDING EXISTING SERVICES AND EQUIPMENT, OBSTRUCTION AND ALL CONDITIONS, WHICH WILL BE ENCOUNTERED IN THE REMOVAL AND/OR RELOCATION OF PRESENT MATERIALS AND	C.	ALL CONDUCTORS IN PLENUM AF
D	EQUIPMENT, INSTALLATION OF NEW MATERIALS, ETC., FOR A COMPLETE INSTALLATION.	3.02 A.	INSTALLATION USE SOLID CONDUCTOR FOR FEE
В.	THE DRAWINGS SHOW THE LOCATION AND GENERAL ARRANGEMENT OF ALL EQUIPMENT AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES PERMIT.		AND SMALLER, STRANDED CONDU USE STRANDED CONDUCTORS FO USE CONDUCTOR NOT SMALLER
	INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING WORK AND ARRANGE WORK ACCORDINGLY.	D. E.	LIGHTING CIRCUITS. USE CONDUCTOR NOT SMALLER USE SOLDERLESS PRESSURE COI
PART 2 2.01	PRODUCTS MATERIALS AND EQUIPMENT	 F.	FOR COPPER CONDUCTOR SPLICE USE INSULATED SPRING WIRE CO COPPER CONDUCTOR SPLICES AN
	MATERIALS AND EQUIPMENT: ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.		END
	ALL EQUIPMENT OF SAME OR SIMILAR SYSTEMS SHALL BE OF THE SAME MANUFACTURER. ALL ELECTRICAL EQUIPMENT SHALL BE NEW UNLESS OTHERWISE STATED IN DRAWINGS.		
		PART 1	GENERAL
PART 3 3.01	EXECUTION WORKMANSHIP	1.01	SECTION INCLUDES WALL AND CEILING OUTLET BOXE
Α.	INSTALL WORK USING PROCEDURES DEFINED IN NECA STANDARD OF INSTALLATION.	С. В. 1.02	PULL AND JUNCTION BOXES.
	END OF SECTION	A. B.	VERIFY FIELD MEASUREMENTS AR ELECTRICAL BOXES ARE SHOWN
			LOCATIONS UNLESS DIMENSIONED FOR BOX TO SERVE INTENDED F
		PART 2 2.01	PRODUCTS OUTLET BOXES
	16111	А.	SHEET METAL OUTLET BOXES: A
	CONDUIT		1. LUMINAIRE AND EQUIPMENT WEIGHT OF EQUIPMENT SUPI FIXTURE STUDS WHERE REQ
PART 1 1.01	GENERAL WORK INCLUDED		NONMETALLIC OUTLET BOXES: A CAST BOXES: NEMA FB 1, TYPE GASKETED COVER BY BOX MANU
	RIGID METAL CONDUIT AND FITTINGS. INTERMEDIATE METAL CONDUIT AND FITTINGS.	2.02	PULL AND JUNCTION BOXES
	ELECTRICAL METALLIC TUBING AND FITTINGS. FLEXIBLE METAL CONDUIT AND FITTINGS. LIQUIDTIGHT FLEXIBLE METAL CONDUIT AND FITTINGS.		SHEET METAL BOXES: NEMA OS EXECUTION
	PRODUCTS	3.01	INSTALLATION
2.01	MANUFACTURERS – CONDUIT	А.	INSTALL ELECTRICAL BOXES AS S REQUIRED FOR SPLICES, TAPS, V
	STEELDUCT, PITTSBURGH, NATIONAL, REPUBLIC, TRIANGLE, ANACONDA.	В.	CONNECTIONS AND COMPLIANCE INSTALL PULL BOXES AND JUNC CEILINGS AND IN UNFINISHED AR
2.02 A.	CONDUIT SUPPORTS CONDUIT CLAMPS, STRAPS, AND SUPPORTS: STEEL OR MALLEABLE	С.	OTHERWISE. INSTALL BOXES TO PRESERVE FI PARTITIONS AND OTHER ELEMENT
PART 3	IRON. EXECUTION		ALIGN ADJACENT WALL-MOUNTED THERMOSTATS, AND SIMILAR DEVI USE CAST FLOOR BOXES FOR IN
3.01	CONDUIT SIZING, ARRANGEMENT, AND SUPPORT	3.03	FORMED STEEL BOXES ARE ACCE
	IF NOT INDICATED ON DRAWINGS, SIZE CONDUIT FOR CONDUCTOR TYPE INSTALLED: 1/2 INCH MINIMUM SIZE. CONCEAL ALL WORK IN WALLS AND ABOVE CEILINGS IN FINISHED		LOCATE FLUSH MOUNTING BOX II CUTTING OF MASONRY UNIT COR
5.	ROOMS. NO CONDUIT SHALL BE INSTALLED ON OR ABOVE ROOF. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILINGS PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING.	В.	CUTTING TO ACHIEVE NEAT OPEN COORDINATE MOUNTING HEIGHTS
5.02	CONDUIT INSTALLATION		MOUNTED ABOVE COUNTERS, BEN
Α.	USE CONDUIT HUBS OR SEALING LOCKNUTS FOR FASTENING CONDUIT TO CAST BOXES, AND FOR FASTENING CONDUIT TO SHEET METAL		
	BOXES IN DAMP OR WET LOCATIONS. USE SUILE CONDUIT CAPS TO PROTECT INSTALLED CONDUIT AGAINST ENTRANCE OF DIRT AND MOISTURE.		
	INSTALL EXPANSION JOINTS WHERE CONDUIT CROSSES BUILDING EXPANSION JOINTS. WHERE CONDUIT PENETRATES FIRE-RATED WALLS AND FLOORS,	PART 1	GENERAL
E.	PROVIDE MECHANICAL FIRE-STOP FITTINGS WITH UL LISTED FIRE RATING EQUAL TO WALL OR FLOOR RATING. ROUTE CONDUIT THROUGH ROOF OPENINGS FOR PIPING AND DUCTWORK	1.01 A.	SECTION INCLUDES WALL SWITCHES.
	WHERE POSSIBLE; OTHERWISE, ROUTE THROUGH ROOF JACK WITH PITCH POCKET.	B. C.	RECEPTACLES. DEVICES PLATES AND COVERS.
3.03 A.	CONDUIT INSTALLATION SCHEDULE INSTALLATIONS IN SLAB OR UNDER CONCRETE SLAB ON GRADE:	PART 2 2.01	PRODUCTS WALL SWITCHES
	RIGID GALVANIZED CONDUIT, INTERMEDIATE METAL CONDUIT. IN SLAB ABOVE GRADE: RIGID GALVANIZED CONDUIT, ELECTRICAL METALLIC TUBING, INTERMEDIATE METAL CONDUIT.		MANUFACTURERS: ARROW HART, PASS & SEYMOUR, SLATER.
	CONCEALED DRY INTERIOR LOCATIONS: RIGID GALVANIZED CONDUIT, INTERMEDIATE METAL CONDUIT, OR ELECTRICAL METALLIC TUBING. EXPOSED DRY INTERIOR LOCATIONS: RIGID GALVANIZED CONDUIT,	C.	DEVICE BODY: PLASTIC BODY W VOLTAGE RATING: 120–277 VOL CURRENT RATING: 20 AMPERES
ט .	INTERMEDIATE METAL CONDUIT, OR ELECTRICAL METALLIC TUBING.	D. E.	DESCRIPTION: NEMA WD 1, SPE SWITCH AS FOLLOWS:
	END OF SECTION		1. SINGLE POLE: ARROW HAR 2. DOUBLE POLE: ARROW HAR 3. THREE WAY: ARROW HART
	END OF SECTION		

NNECTIONS.

- ENTS ARE AS SHOWN ON DRAWINGS. ON COPPER.
- TFIELD, CRESENT, GENERAL CABLE,
- CTOR INSULATED WIRE.
- 600 VOLTS. TYPE THW, THHN/THWN OR XHHW BRANCH CIRCUITS LARGER THAN SULATION FOR FEEDERS AND BRANCH R. THW OR XHHW MAY BE USED IF FOR FEEDERS AND BRANCH CIRCUITS
- RACEWAYS IN ALL LOCATIONS. ED ON DRAWINGS. AREA SHALL BE PLENUM RATED.
- EEDERS 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 ICES AND TAPE, 6 AWG AND LARGER. CONNECTORS WITH PLASTIC CAPS FOR AND TAPE, 8 AWG AND SMALLER.
- 16130 BOXES
- XES.
- ARE AS SHOWN ON DRAWINGS. N ON DRAWINGS IN APPROXIMATE ED. INSTALL AT LOCATION REQUIRED PURPOSE.
- ANSI/NEMA OS 1. GALVANIZED
- IT SUPPORTING BOXES: RATED FOR JPPORTED, INCLUDE 1\2 INCH MALE EQUIRED.
- ANSI/NEMA OS 2. (PE FD CAST FERALLOY. PROVIDE NUFACTURER. PROVIDE THREADED HUBS.
- OS 1, GALVANIZED STEEL.
- S SHOWN ON DRAWINGS, AND AS , WIRE PULLING, EQUIPMENT E WITH REGULATORY REQUIREMENTS. NCTION BOXES ABOVE ACCESSIBLE AREAS ONLY, UNLESS NOTED
- FIRE RESISTANCE RATING OF
- ED OUTLET BOXES FOR SWITCHES, EVICES WITH EACH OTHER. INSTALLATIONS IN SLAB ON GRADE; CCEPTABLE FOR OTHER INSTALLATIONS.
- IN MASONRY WALL TO REQUIRE DRNER ONLY. COORDINATE MASONRY ENING. 'S 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.

ES. SPECIFICATION GRADE, AC TOGGLE

- (CON'T.)

- 2.02 RECEPTACLES
- A. MANUFACTURERS: ARROW HART, GENERAL ELECTRIC, HUBBELL, LEVITON, PASS & SEYMOUR, SLATER.
 B. DEVICE BODY: PLASTIC BODY WITH IVORY NYLON FACE.
- C. CONVENIENCE AND STRAIGHT-BLADE RECEPTACLES: NEMA WD 1, SPECIFICATION GRADE, GROUNDING TYPE; LOCKING-BLADE RECEPTACLES: NEMA WD 5, SPECIFICATION GRADE, GROUNDING TYPE; AS FOLLOWS:
- DUPLEX RECEPTACLE 20 A, 125 V: HUBBELL 5362, ARROW HART 5362, P & S 5362, SLATER 5362-AG, LEVITON 5362, OR G.E. 5362-1.
- 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. D. DO NOT USE POWDER-ACTUATED ANCHORS.
 - E. DO NOT WELD TO OR DRILL BUILDING STRUCTURAL STEEL MEMBERS.
 - F. 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.

HART 1221. HART 1222. RT 1223. N'T.)

3.02	NAMEPLATE ENGRAVING SCHEDULE	
A.	PROVIDE NAMEPLATES OF MINIMUM LETTER HEIGHT AS SCHEDULED	
В.	BELOW. PANELBOARDS: 3/4 INCH, IDENTIFY EQUIPMENT DESIGNATION. 3/4 INCH, IDENTIFY VOLTAGE RATING AND SOURCE.	
C.	INDIVIDUAL CIRCUIT BREAKERS, SWITCHES, AND MOTOR STARTERS IN PANELBOARDS, SWITCHBOARDS, AND MOTOR CONTROL CENTERS:	
	1/8 INCH, IDENTIFY CIRCUIT AND LOAD SERVED, INCLUDING LOCATION.	
D.	INDIVIDUAL CIRCUIT BREAKERS, ENCLOSED SWITCHES AND MOTOR STARTERS: 1/4 INCH, IDENTIFY LOAD SERVED.	
	END OF SECTION	
	16470	
	PANELBOARDS	
	GENERAL	OWNER
1.01 A.	WORK INCLUDED LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARDS.	DICKINSON FINANCIAL CORPORATION
1.02	SPARE PARTS	1111 MAIN STREET #1600 KANSAS CITY, MO 64105
	KEYS: FURNISH TWO EACH TO OWNER.	816.472.5244 ARCHITECT
PART 2	PRODUCTS	GENERATOR STUDIO LLC 1615 BALTIMORE AVE
2.01	ACCEPTABLE MANUFACTURERS – PANELBOARDS	KANSAS CITY, MO 64108 816.333.6527
A.	SQUARE D, GENERAL ELECTRIC, ITE/SIEMENS-ALLIS, WESTINGHOUSE, CUTLER HAMMER.	GENERATORSTUDIO.COM
2.02	PANELBOARDS	CONTRACTOR SOUTHWIND GROUP
A.	LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARDS: CIRCUIT	1218 ENERGY DRIVE ABILENE, TX 79602
	BREAKER TYPE AS INDICATED ON THE PANELBOARD SCHEDULES ON DRAWINGS. PROVIDE CABINET FRONT WITH CONCEALED TRIM	325.695.1111 SOUTHWINDGRP.COM
В.	CLAMPS, CONCEALED HINGE AND FLUSH LOCK ALL KEYED ALIKE. FINISH IN MANUFACTURER'S STANDARD GRAY ENAMEL. ENCLOSURE: TYPE 1.	
C. D.	MINIMUM SHORT CIRCUIT RATING: AS SHOWN ON DRAWINGS. PROVIDE PANELBOARDS WITH COPPER BUS RATINGS AS SCHEDULED	
E.	ON DRAWINGS. PROVIDE GROUND BUS IN ALL PANELBOARDS. MOLDED CASE CIRCUIT BREAKERS: BOLT-ON TYPE THERMAL MAGNETIC	
	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 BREAKERS WHERE SCHEDULED ON DRAWINGS.	
PART 3	EXECUTION	
3.01	INSTALLATION	
	HEIGHT: 6 FEET TO TOP SWITCH OR CIRCUIT BREAKER IN PANELBOARDS, UNLESS OTHERWISE NOTED.	
В.	PROVIDE TYPED CIRCUIT DIRECTORY FOR EACH BRANCH CIRCUIT PANELBOARD. REVISE DIRECTORY TO REFLECT CIRCUITING CHANGES REQUIRED TO BALANCE PHASE LOADS.	
	REQUIRED TO BREAKCE THASE LOADS.	
	END OF SECTION	
		ARCHITECT: MIKE KRESS LICENSE NO. 5715
	INTERIOR LUMINARIES	
PART 1	GENERAL	1 2024
1.01	SECTION INCLUDES	OF MISSO
A. B. C.	INTERIOR LUMINARIES AND ACCESSORIES. EMERGENCY LIGHTING UNITS. EXIT SIGNS.	DANNY EL
D. E.	BALLASTS. LAMPS.	G EUGENE DOSS
F.	LUMINAIRE ACCESSORIES.	E-21634
PART 2 2.01	PRODUCTS	POFESS 10NA
2.01 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.	SEAL
В.	FIXTURE MANUFACTURERS: AS SCHEDULED IN LIGHT FIXTURE SCHEDULE ON DRAWINGS.	
2.02	BALLAST	ACADEMY BANK
А.	MANUFACTURERS: 1. ADVANCE, UNIVERSAL, GENERAL ELECTRIC, JEFFERSON.	BRANCH:
	2. DESCRIPTION: ANSI C82.1, HIGH POWER FACTOR TYPE BALLAST.	LEE'S SUMMIT
	 PROVIDE BALLAST SUITABLE FOR LAMPS SPECIFIED. SOURCE QUALITY CONTROL: CERTIFY BALLAST DESIGN AND CONSTRUCTION BY CERTIFIED BALLAST MANUFACTURERS, INC. 	
3.03	LAMPS	2070 NW Lowenstein Dr
А.	MANUFACTURERS:	Suite A
	 SYLVANIA, GENERAL ELECTRIC, NORTH AMERICAN PHILLIPS/WESTINGHOUSE. FLUORESCENT LAMPS SHALL BE OF TYPE SPECIFIED ON LIGHT 	LEE'S SUMMIT, MO 64081
	FIXTURE SCHEDULE AND PLANS.	
PART 3	EXECUTION	
3.01	EXAMINATION	PERMIT SET
А.	EXAMINE EACH LUMINAIRE TO DETERMINE SUITABILITY FOR LAMPS SPECIFIED.	ISSUE DATE:05.30.24REVDESCRIPTIONDATE
3.02	INSTALLATION	
А.	EXPOSED GRID CEILINGS: FURNISH AND INSTALL AUXILIARY MEMBERS SPANNING CEILING TEES TO SUPPORT SURFACE MOUNTED	
B. C.	LUMINARIES. INSTALL RECESSED LUMINARIES TO PERMIT REMOVAL FROM BELEGEVED COMMENTS ARE INSTALL RECESSED LUMINARIES USING ACCESSORIES AND DIAGRAMMATIC IN NATURE AND IN	
0.	FIRESTOPPING MATERIALS TO MEET REGULATORY REQUIREMENTS MECATES, BASED ON	
D.	MAKE WIRING CONNECTIONS TO BRANCH CIRCUIT USING BUILDING VERIFY EXISTING WIRE WITH INSULATION SUITABLE FOR TEMPERATURE CONCOMPANYS IN THE FIELD PRIOR TO	
3.03	WITHIN LUMINAIRE. BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS	
دن.ن ۵	ADJUSTING TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO AIM AND ADJUST LUMINARIES AS INDICATED ON DRAWING THE ARCHITECT.	
/ \.	DIRECTED.	PROJECT NO. 16014
	END OF SECTIONMADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW. ANY REQUESTED CHANGES DUE TO	DRAWN BY: CHK'D BY:
	THE CONTRACTORS OVERSIGHT OR FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED	SHEET TITLE
	PO BOX 427 OR COMPENSATED. COORDINATE ALL LOUVER SIZES AND LOCATIONS PRIOR TO START OF	
	ROGERS, AR 72756 CONSTRUCTION. LAYOUT ALL EQUIPMENT IN MECHANICAL ROOM	▶ ► _ / ()()
ADVANCED MECHANICAL	CONSULTING ENGINEERS FX 479.631.1854 ELECTRICAL INDUSTRIAL ACEI@ADVENGINEERS.COM WITH ANY ISSUES.	