

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

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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

FF

FEC

FFE

FHC FIN FVC FLUOR FLR FOC FOF FOS

FS

FRP

FRT

FS

FSE

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FTG FURR

FV

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GWB

HB

HC

HCP

HD

HDW HDWD HM

HORIZ

HR

HVAC

INSUL

INT

JAN

JST

LAM

LAV LLH LLV LT(LTG)

M MAS MAX

HT

GALV

FR(FRM)

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 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) ASSEMBLY AUDIO/VISUAL BOARD BELOW FINISHED GRADE BELOW FINISHED FLOOR BUILDING BLOCKING BEAM BOTTOM BEARING BRACKET BOTH SIDES BETWEEN CABINET CHALK BOARD CORNER GUARD CORNER GUARD CAST IRON CAST IRON CAST IN-PLACE CONTROL JOINT CENTER LINE CEILING CLOSET CONCRETE MASONRY UNIT COLUMN CONCRETE CONCRETE MASONRY UNIT COLUMN CONCRETE CONNECTION CONSTRUCT(ION) CONTINUOUS CONTRACTOR CONTROL TION DEPARTMENT DIMENSION DOWN DOOR DOWNSPOUT DETAIL DRAWING(S) EACH EXHAUST FAN EXPANSION JOINT ELEVATION ELECTRICAL ELEVATOR ELECTRICAL ELEVATOR	
ELEVATOR	

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) SYS T 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 INSULATIO
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

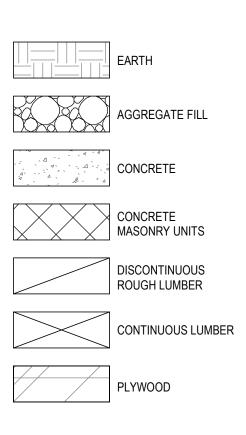
"CEILINGS WITHOUT ATTIC SPACE & AREA LESS THAN 500 SQUARE FEET

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
SILLAR SIMILAR SPACING SPECIFICATION SPRINKLER 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	
TREAD TOP & BOTTOM TOUNGE AND GROOVE TO BE DETERMINED TELEPHONE TEMPERED	1 A101 SIM	DETAIL	XX
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 WEIGHT	1 /A101 101 1/4101 1 /A101	ELEVATION NUMBER / SHEET NUMBER	O FEC
WELDED WIRE FABRIC			FEC
	<u>LEVEL</u>	LEVEL ELEVATION	FEC
	— - — - — A	COLUMN GRID DESIGNATION	
	MATCH LINE RE: A1/A101	MATCHLINE ADJACENT REFERENCE	
	<b></b>	1 - HR RATED	
	<b></b>	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

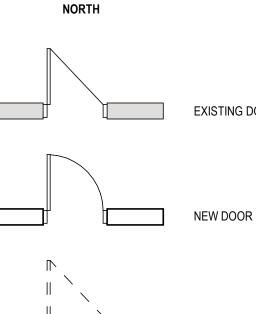
SEMI RECESSED FIRE EXTINGUISHER CABINET

FULLY RECESSED FIRE EXTINGUISHER CABINET

EXISTING CONSTRUCTION

NEW CONSTRUCTION

DEMOLISHED CONSTRUCTION



\_ \_\_\_ .

DEMOLISHED DOOR

### SHEET LIST

PROJECT COVER

PROJECT INFORMATION

GENERAL ACCESSIBILITY

INTERIOR ACCESSIBILITY

LEVEL 1 - FLOOR PLAN

INTERIOR ELEVATIONS

SCHEDULES AND DETAILS

ELECTRICAL SCHEDULES

**ELECTRICAL LEGEND & ABBREVIATIONS** 

**MECHANICAL LEGEND & ABBREVIATIONS** 

**MECHANICAL FLOOR PLAN & SCHEDULES** 

LEGEND, GENERAL NOTES & DRAWING INDEX

ENLARGED DOMESTIC WATER PLUMBING PLAN

ENLARGED SANITARY SEWER PLUMBING PLAN

WATER AND SEWER PIPING MAINS PLAN AND SCHEDULE

MECHANICAL SPECIFICATIONS

MILLWORK DETAILS

LIGHTING PLAN

POWER PLAN

SPECIFICATIONS

DETAILS

ISOMETRICS

SPECIFICATIONS

REFLECTED CEILING PLAN

FLOOR PLAN

FINISH PLAN

GENERAL

G000

G001

G002

G003

A101

A102

A103

A401

A402

A601

ELEC

E-000

E-100

E-101

E-600 E-700

MECH

M-000

M-100

M-700

P000

P100

P400

P401

P500

P600

P700

PLUMBING

LIFE SAFETY LS101

ARCHITECTURE

TION	

R - VALUES

R - 20





JLATION

INSULATION

OARD JOINTS

**/**BER

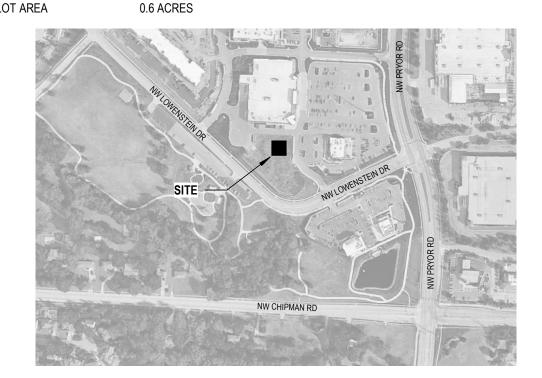
NORTH ARROW

EXISTING 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



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CONTRACTOR

ARCHITECT: LICENSE NO.

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ARCHITECT

ACADEMY BANK

LEE'S SUMMIT

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

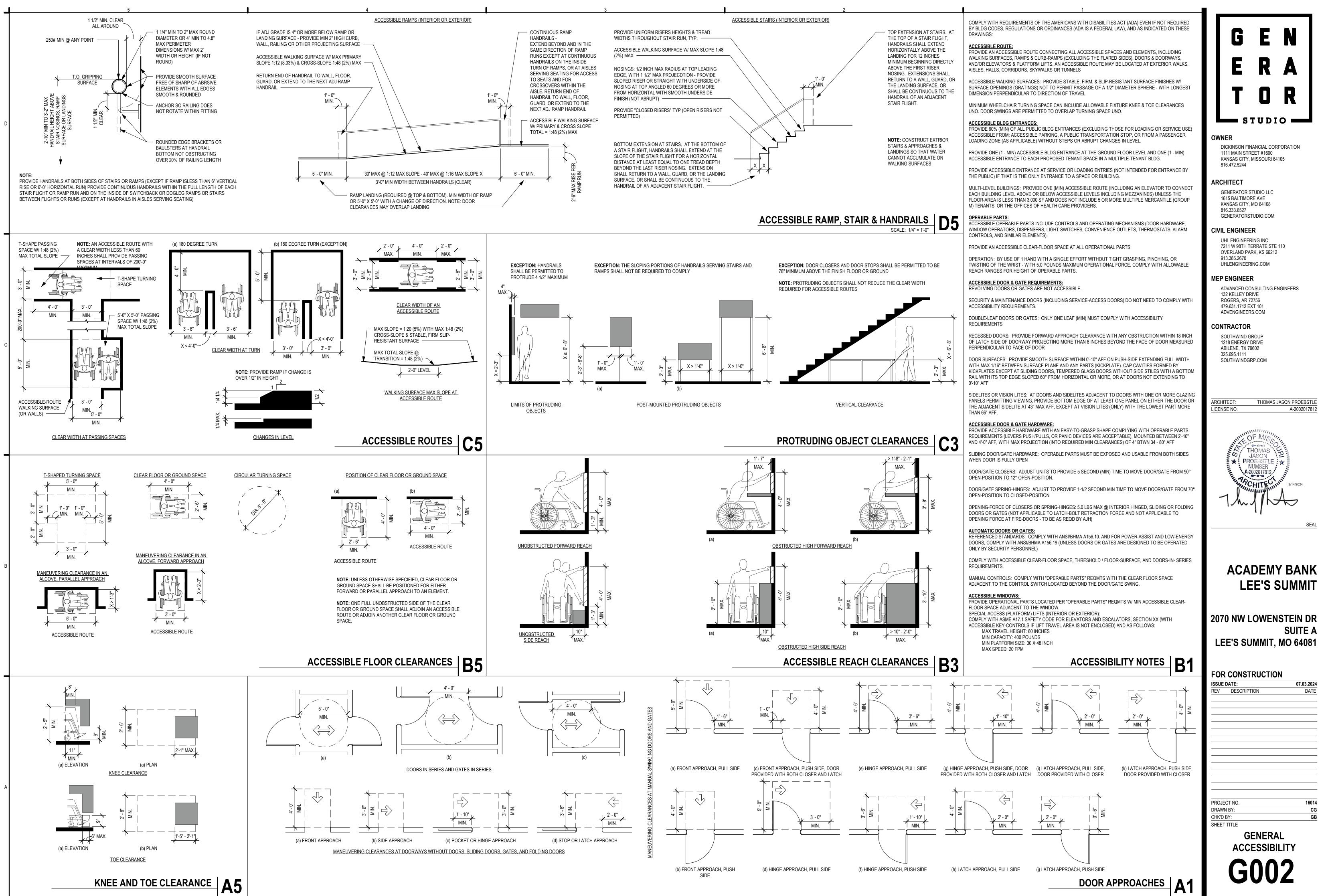
FOR CONSTRUCTION	07.03.2024
REV DESCRIPTION	DATE
PROJECT NO.	16014
DRAWN BY:	CG
CHK'D BY:	GB
SHEET TITLE	
PROJECT	
INFORMATION	



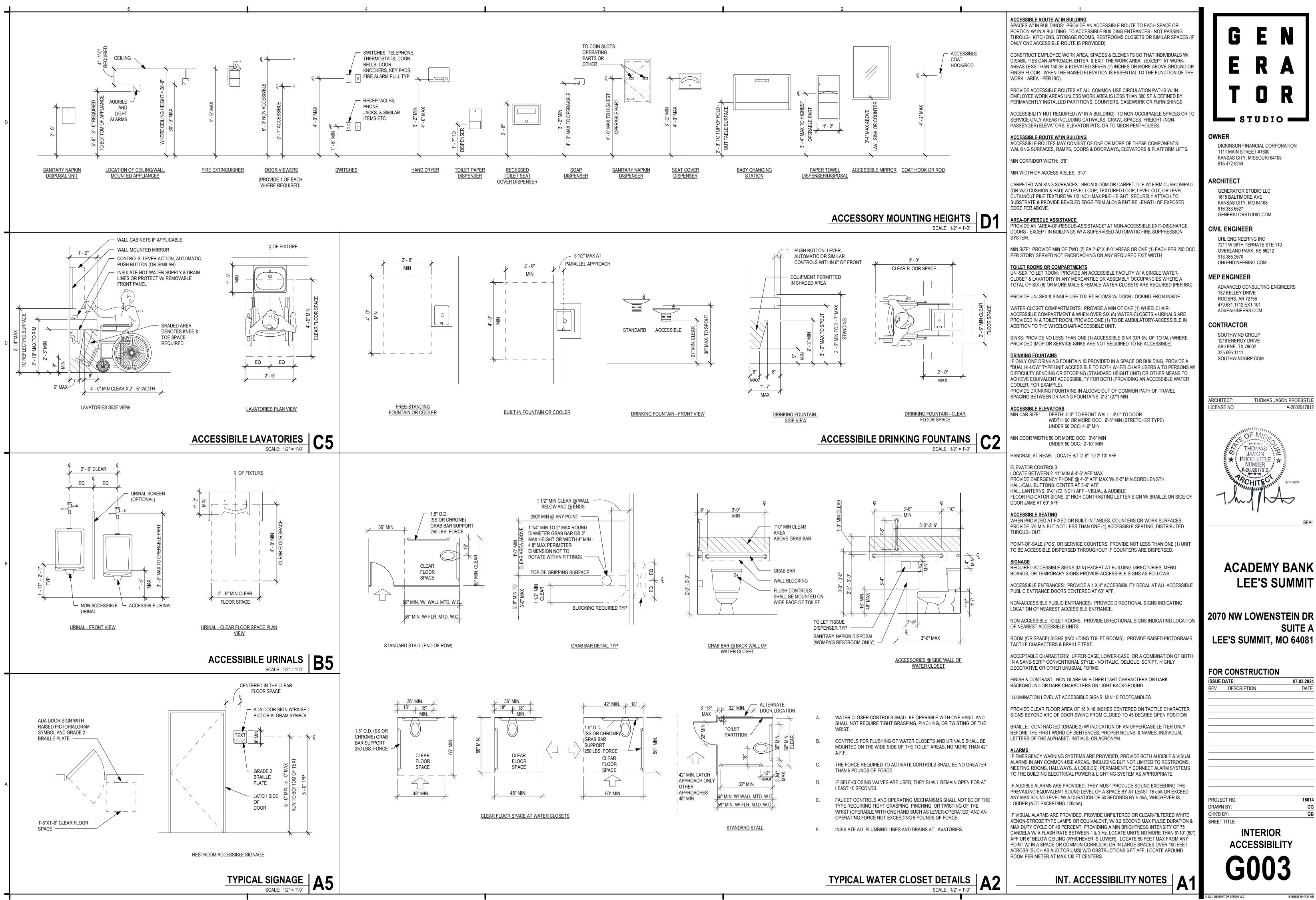
PROJECT INFORMATION

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2021 GENERATOR STUDIO LLC



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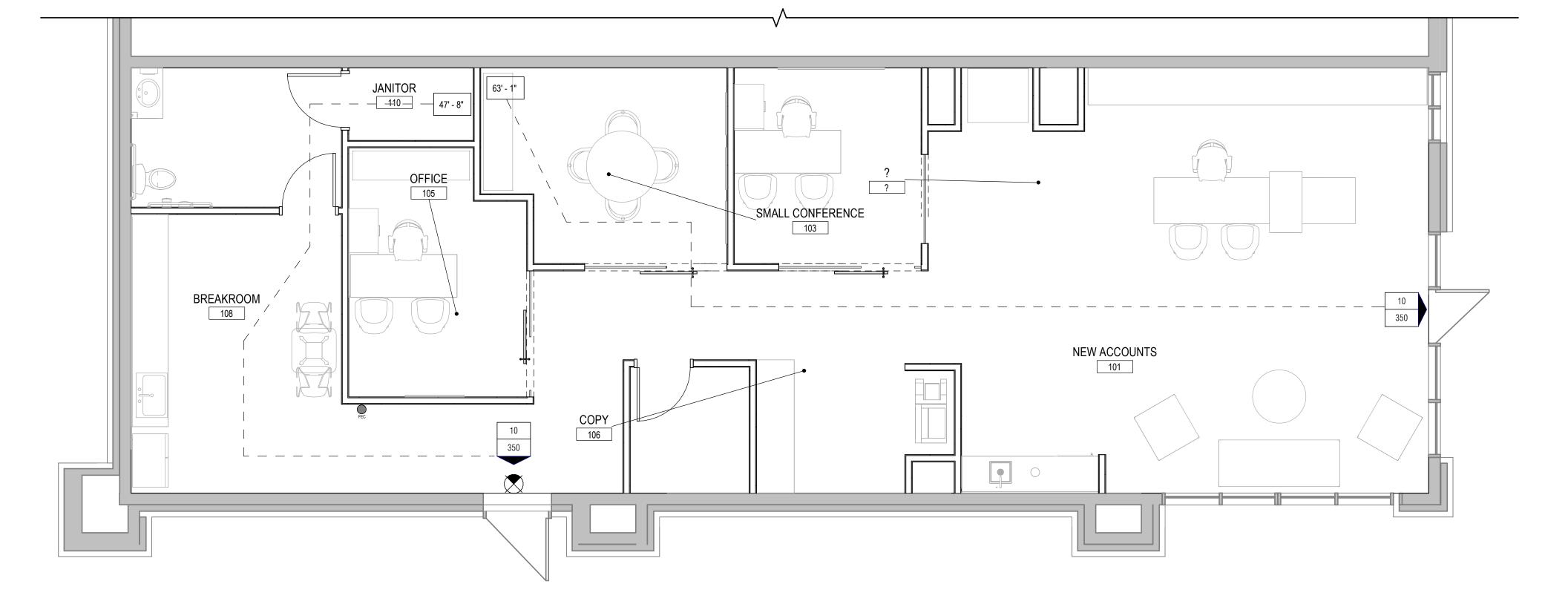
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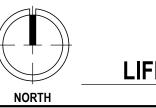
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SPECIFICATIONS AND DRAWINGS AND BALL SATISFY ALL APPLICABLE CODES, OPDIMAKES, AND REGULTONS OF ALL GOVERNISS BOOLES INVOLVED. ALL PERMITS AND LOENESS NECESSARY FOR THE PROPER EXECUTIONS OF THE WORK BIALL BE SECURED AND PADE FOR BY THE CONTRACTOR INVOLVED.         APPLICABLE CODES       2019 INTERNATIONAL PLILLING ODE SULTAINS CODE:       2019 INTERNATIONAL PLILLING CODE SULTAINS CODE:       2019 INTERNATIONAL PLILLING CODE SULTAINS CODE:       2019 INTERNATIONAL PLICATE, CODE SULTAINS CODE:       2019 INTERNATIONAL PLICATE, CODE SULTAINS CODE:       2019 INTERNATIONAL FLORE TO CODE SULTAINS CODE:       2019 INTERNATIONAL FLORE TO CODE SULTAINS CODE:       STET         Use and Occupancy Classification:       B - BUSINEES Classification:       B - BUSINEES SULTAINS CODE:       STET         Autorialis Sprinklers:       NO Actual Grass Building Area: Occupancy Classification:       DEMISED TENANT SPACE - 1,743 SP OCC.       10 CCC.         Construction Type: (Table r002)       V-B (EXISTING NO CHANGE)       11 OCC.       STET         Autorialis Sprinklers:       NO Actual Grass Building Area: Occupancy Classification:       DEMISED TENANT SPACE - 1,743 SP OCC.       10 CCC.         Exits Required: (Table r002)       20 OCC <49 OCC = 1 EXIT REQUIRED UNASC       20 OCC.       CMILECT         MINIMUM MUMBER OF REQUIRED PLUMBING FIXTURES: BUSINESS CLASSIFICATION (IBC TABLE 2992.1) OCCUPANCY = 10 EA       10 MEL / 10 FEMALE       00 CLIER (STERNATIONES A TITERATIONEL FILE AS OLD A SEPARATE FACILITIES SHALL NOT BE REQUIDE IN ERIC CODE SINK       COMILECTION SINK PROVIDED	 X'-X"		PROEE NUM ▲ 20020
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SPECIFICATIONS AND DRAWINGS AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS OF ALL GOVERING BOOLS TRAINS AND LOCKESS NECESSARY FOR THE PROPER EXECUTIONS OF THE WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR INVOLVED.         APPLICABLE CODES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:         BUILDING CODE:       2018 INTERNATIONAL BUILDING CODE         PLUMBING CODE:       2018 INTERNATIONAL PURCHANCE, CODE         MECHANICAL CODE:       2018 INTERNATIONAL PURCHANCE, CODE         CASA CODE:       2018 INTERNATIONAL ELECTRICAL CODE         ELECTRICAL CODE:       2018 INTERNATIONAL ELECTRICAL CODE         ENERGY CODE:       2018 INTERNATIONAL ELECTRICAL CODE         ENERGY CODE:       2018 INTERNATIONAL ELECTRICAL CODE         Use and Occupancy Classification:       B - BUSINESS         Construction Type:       V-B (EXISTING NO CHANGE)         (Table 602)       NOREASED DCC LOAD PER 1004.51 =       9 OCC.         NOREASED DCC LOAD PER 1004.51 =       9 OCC.         TOTAL:       20 OCC <49 OCC = 1 EXIT REQUIRED	REQ'D	<u>OTHER</u> 1 SERVICE SINK	325.695.1111
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SON FINANCIAL CORPORATION IAIN STREET #1600 AS CITY, MISSOURI 64105 .5244

RATOR STUDIO LLC ALTIMORE AVE AS CITY, MO 64108 33.6527 RATORSTUDIO.COM

### GINEER

NGINEERING INC N 98TH TERRATE STE 110 AND PARK, KS 66212 5.2670 GINEERING.COM

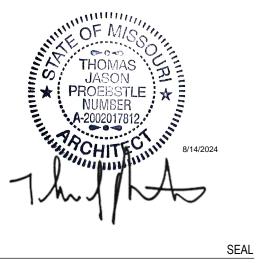
#### SINEER

NCED CONSULTING ENGINEERS ELLEY DRIVE ERS, AR 72756 1712 EXT 101 GINEERS.COM

#### CTOR

WIND GROUP IERGY DRIVE E, TX 79602 .1111 WINDGRP.COM

> THOMAS JASON PROEBSTLE A-2002017812



### ACADEMY BANK LEE'S SUMMIT

## NW LOWENSTEIN DR SUITE A S SUMMIT, MO 64081

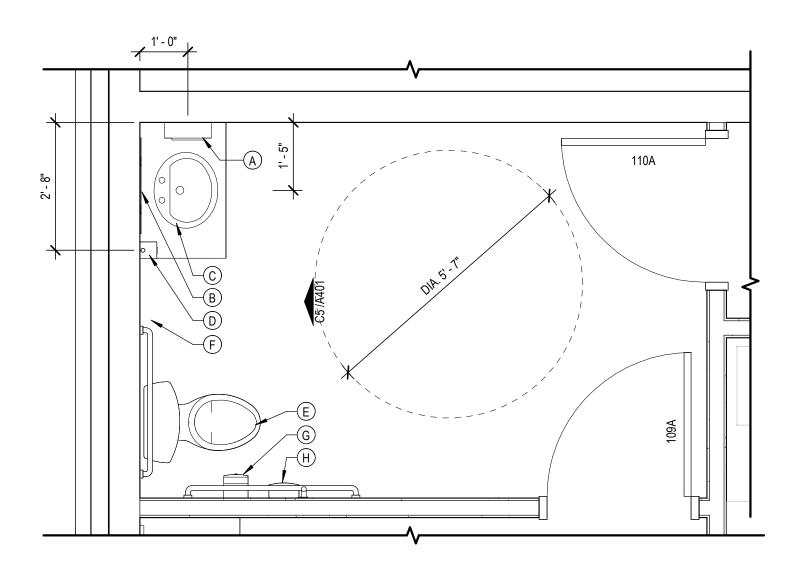
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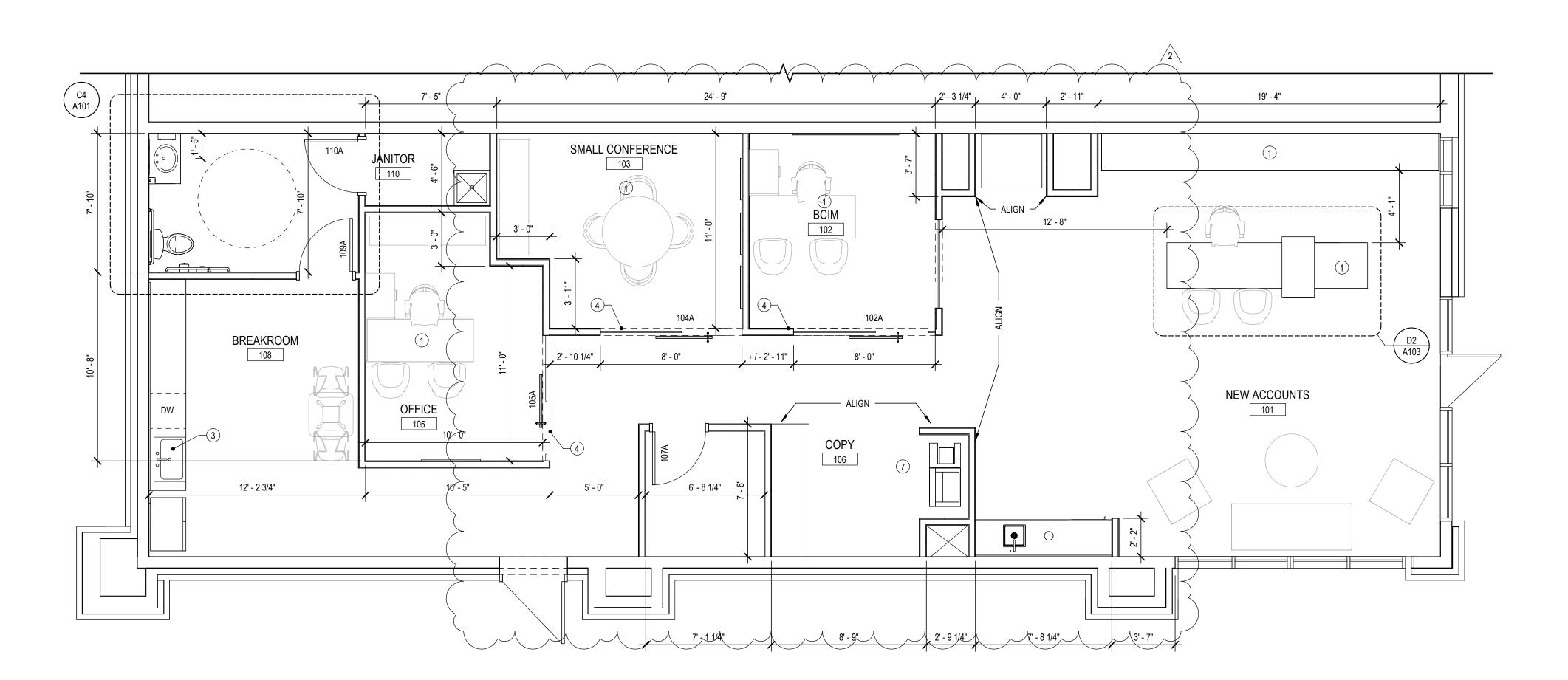
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LEVEL	1 -	FLC	OR	PLA	N

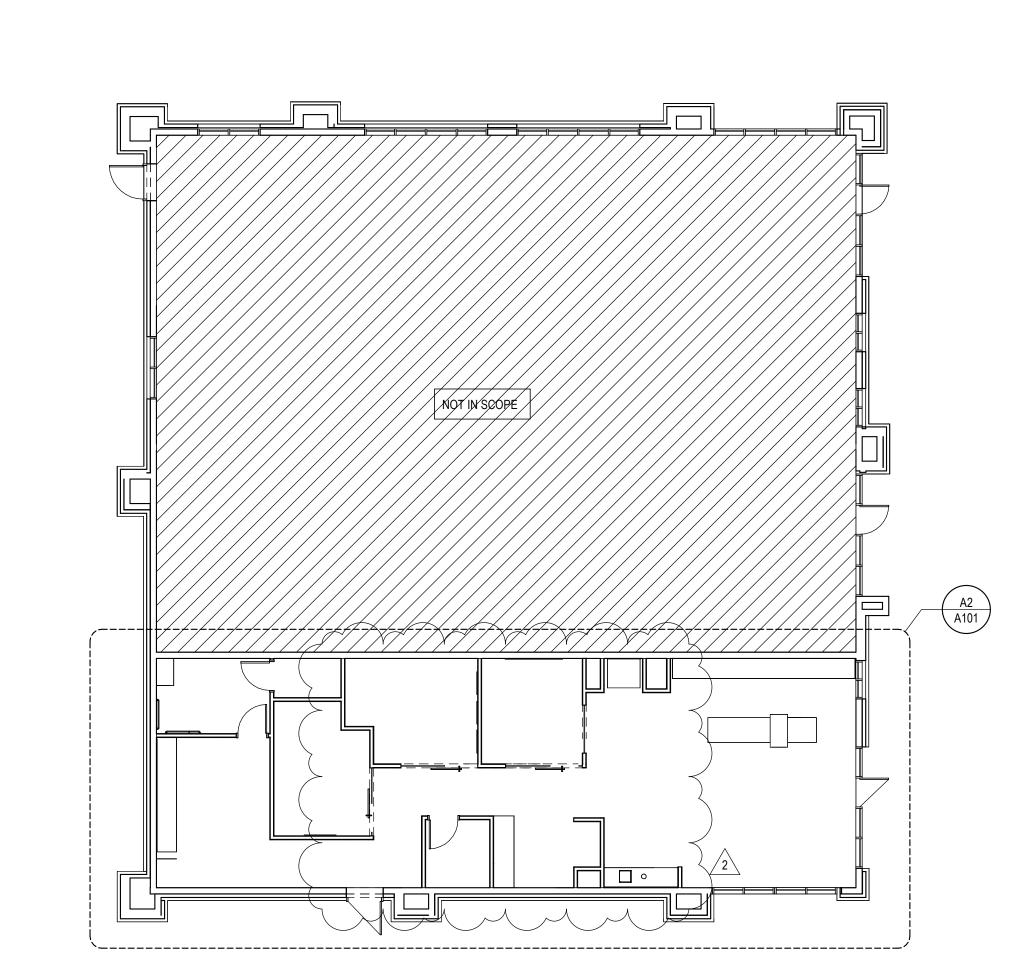
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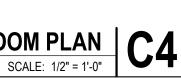
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ENLARGED RESTROOM PLAN







SHELL BUILDING PLAN

#### 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 E N E R A T O R 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

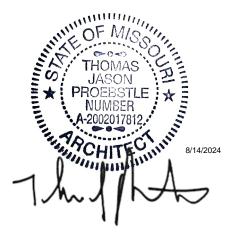
ADVANCED CONSULTING ENGINEERS 132 KELLEY DRIVE ROGERS, AR 72756 479.631.1712 EXT 101 ADVENGINEERS.COM

#### CONTRACTOR

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

ARCHITECT:

THOMAS JASON PROEBSTLE A-2002017812



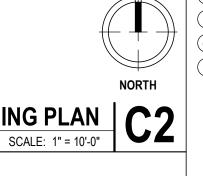
SEAL

### ACADEMY BANK LEE'S SUMMIT

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

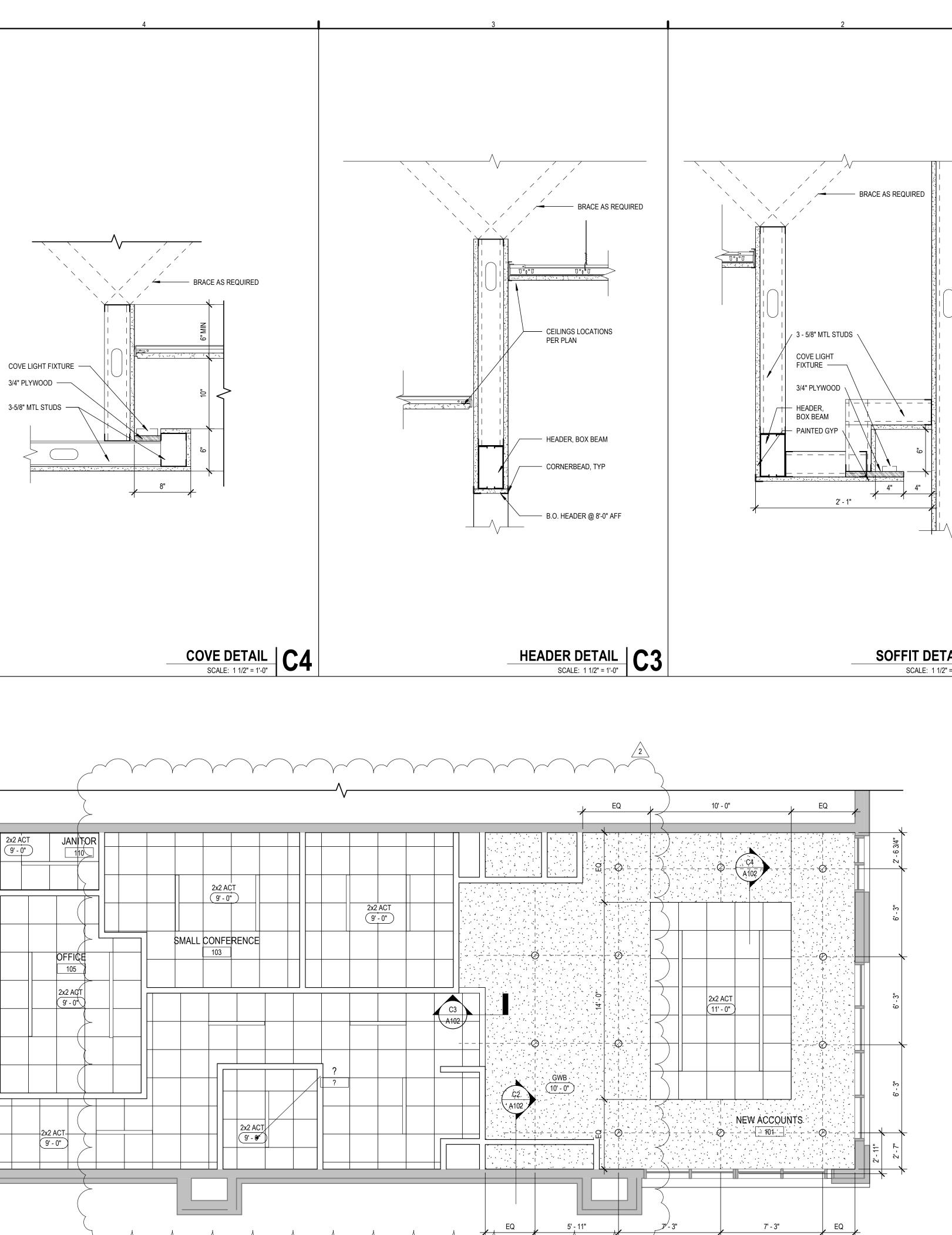
### FOR CONSTRUCTION

ISSUE	DATE:	07.03.2024
REV	DESCRIPTION	DATE
1	CITY COMMENTS #1	07/03/2023
2	DESIGN CLARIFICATION	08/06/2024
PROJE	CT NO.	16014
DRAW	N BY:	СН
CHK'D	BY:	GB
SHEET	TITLE	
	FLOOR PLA	N
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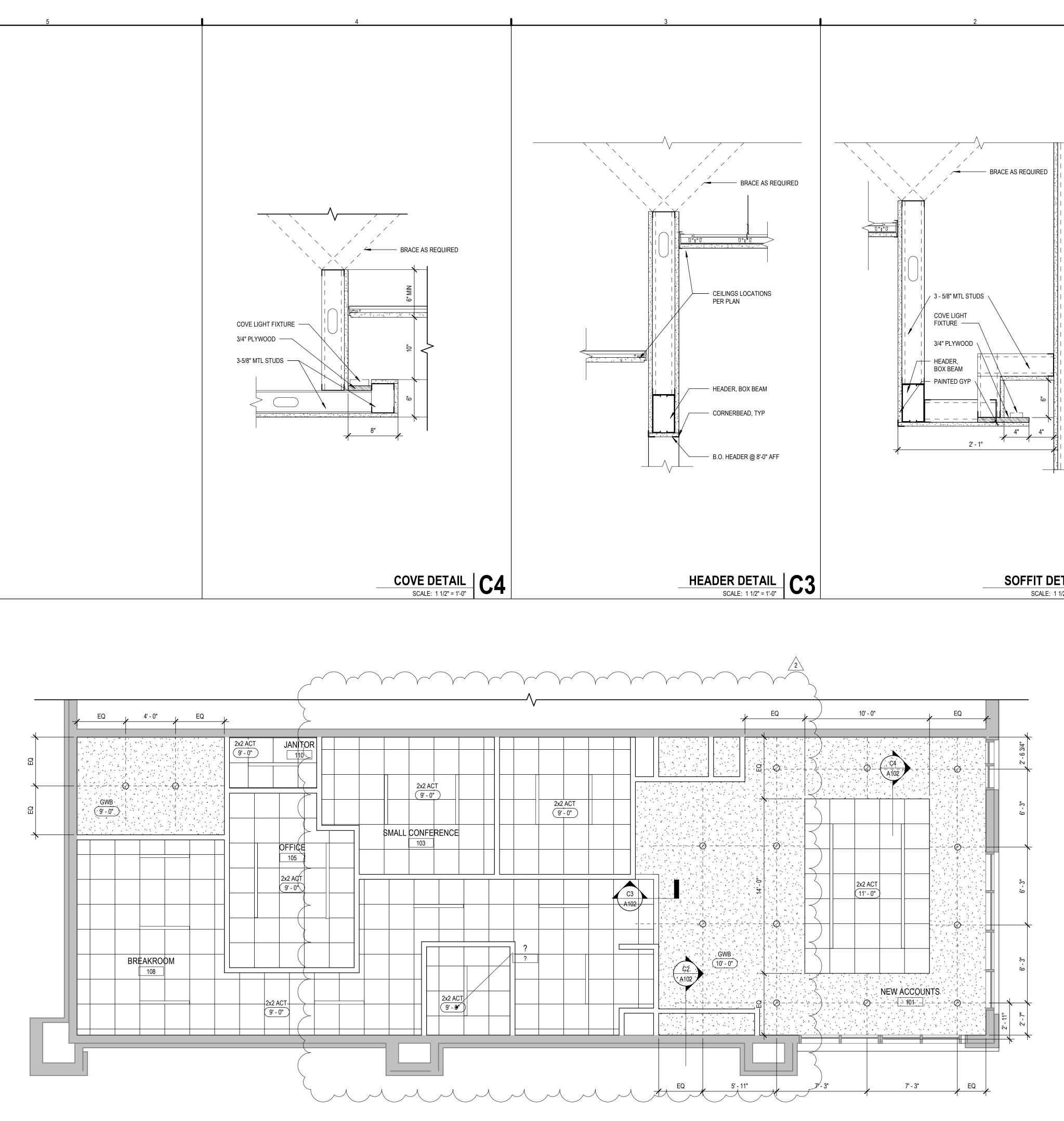








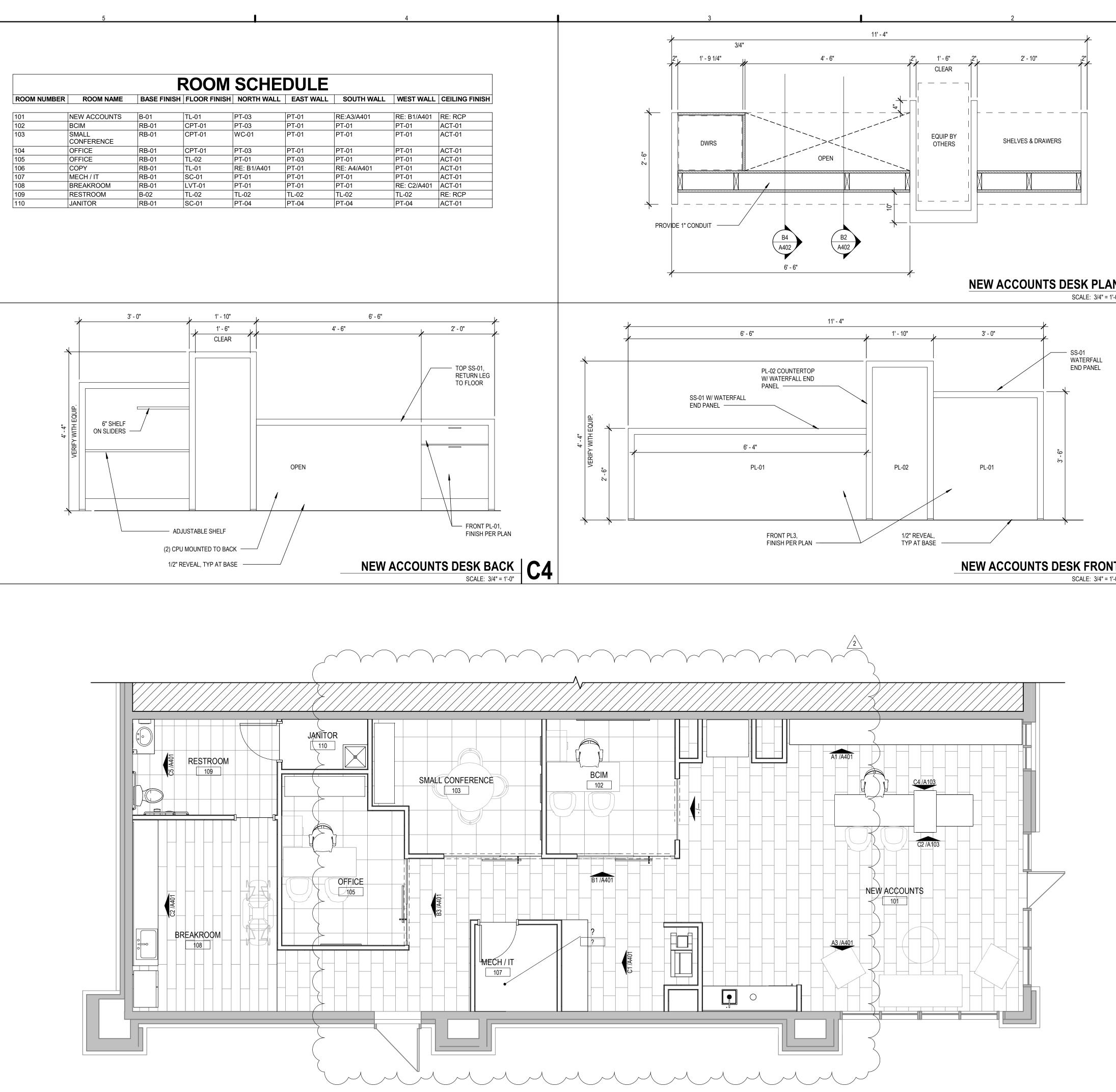


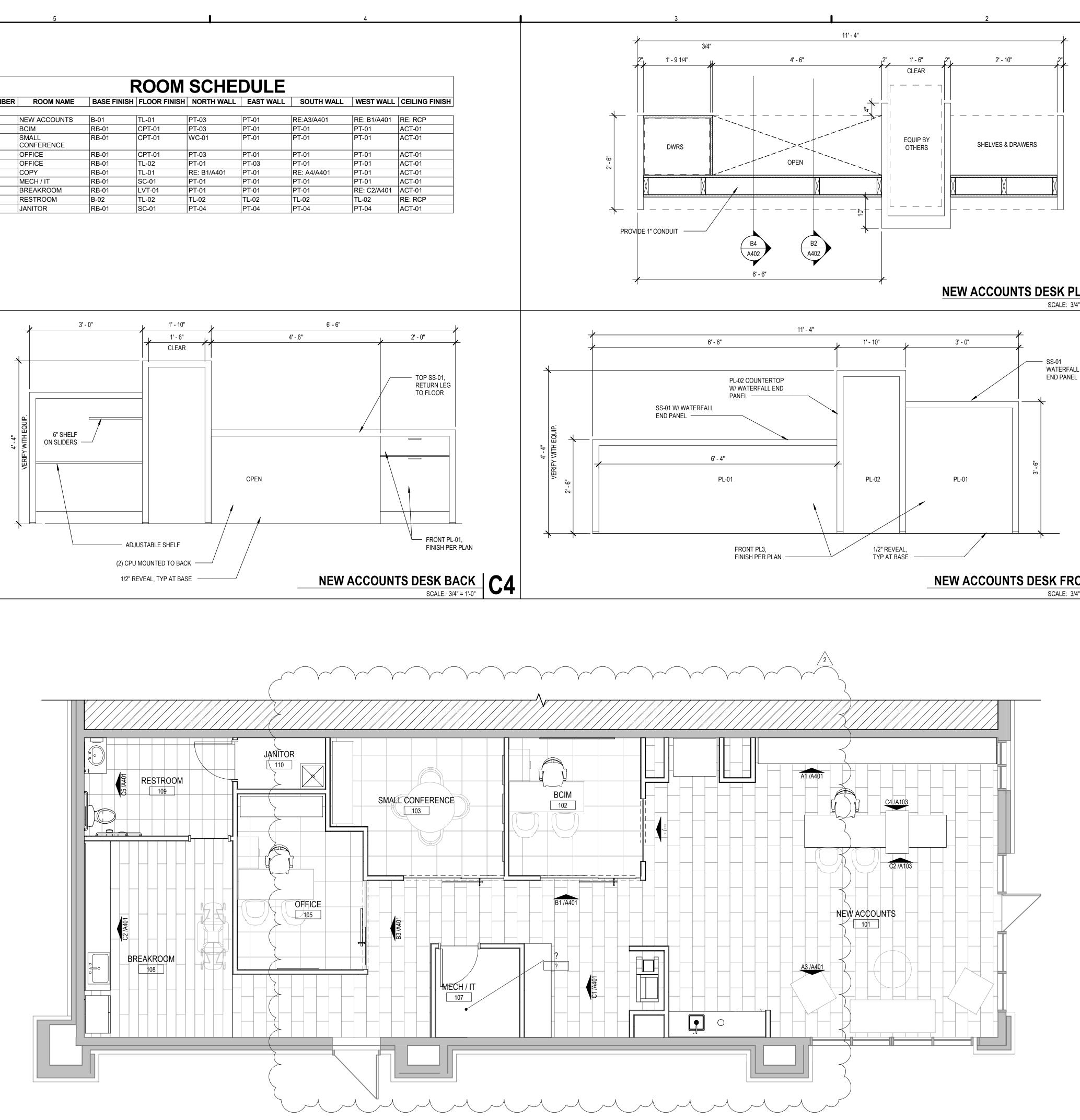


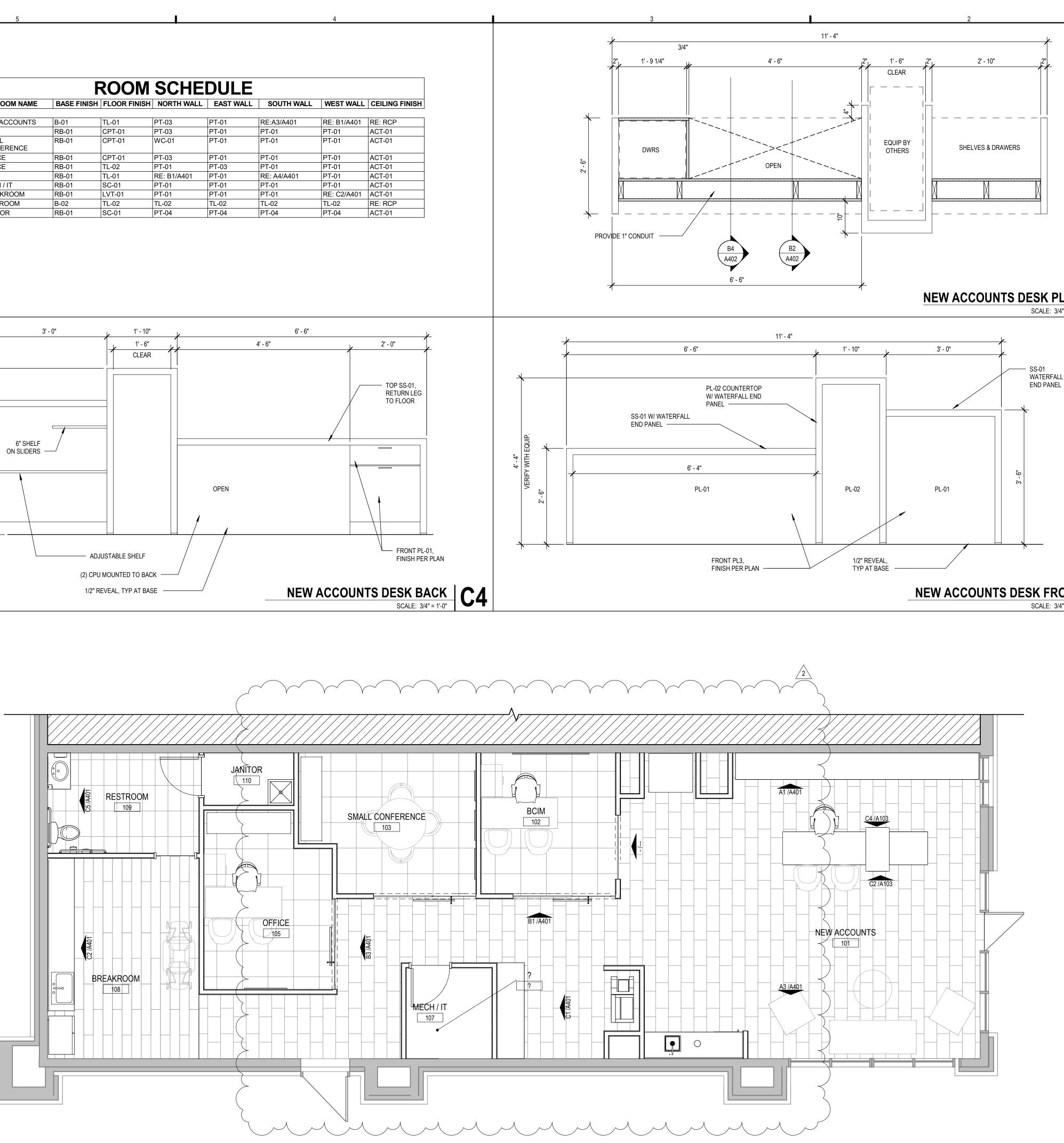
	CEILING PLAN GENERAL NOTES		
	A. ALL CIRCUITING FOR ELECTRICAL TO	BE BY ELECTRICAL SUBCONTRACTOR.	
	B. PROVIDE DUPLEX OUTLETS AS IDEN OUTLETS IN ALL WET AREAS AS REQ	TIFIED ON DRAWINGS AND AS REQ'D BY CODE. PROVIDE GFCI 'D BY CODE.	
	C. ALL HVAC TO BE DESIGN/BUILD BY C	ONTRACTOR.	
	D. CONTACT ARCHITECT IF CEILING HE CONDITIONS.	IGH NOTED IN DWGS ISN'T FEASIBLE DUE TO EXISTING	
	ITEMS TO REMAIN. ANY DAMAGE DO RESTORED TO THEIR ORIGINAL PRE-	CTION DURING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING NE TO EXISTING ITEMS DURING CONSTRUCTION SHALL BE CONSTRUCTION CONDITION AND/OR REPARED BY THE N OF THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COST	
		OUCH-LATCH ACCESS DOOR WITH CONCEALED HARDWARE &	OWNER
	G. ALL WALL TV LOCATIONS TO BE VER	J. IFIED WITH OWNER PRIOR TO INSTALLATION. WALL LOCATIONS	DICKINSON FINANCIAL CORPORATION 1111 MAIN STREET #1600
	<ul><li>SHOWN FOR PRICING PURPOSES.</li><li>H. PROVIDE BI-LEVEL SWITCHING OR O</li></ul>	CCUPAND SENSOR & AUTOMATIC LIGHTING SHUTOFF(S). PER	KANSAS CITY, MISSOURI 64105 816.472.5244
5 x   x -   x -   y -   x -   x -   x -	505.2.2.1 AND 505.2.2.2. OF THE 2006	IEEC.	ARCHITECT
			GENERATOR STUDIO LLC 1615 BALTIMORE AVE
	CEILING PLAN SYMBOLS LEGEND	- RECESSED GRID LED, XAL LIGHTING - LENO	KANSAS CITY, MO 64108 816.333.6527 GENERATORSTUDIO.COM
		(7317270H70040, LED (3850 LUMEN) 3500K/30W - O.C. GRID	CIVIL ENGINEER
*   *   *   *   *   *   *	N	EW GYPSUM WALL BOARD CEILING	UHL ENGINEERING INC 7211 W 98TH TERRATE STE 110 OVERLAND PARK, KS 66212 913.385.2670
	A	CT: ARMSTRONG ULTIMA 2X2, 15/16 BEVELED REGULAR	UHLENGINEERING.COM
	GWB 8'-0"	EILING HEIGHT TAG	MEP ENGINEER ADVANCED CONSULTING ENGINEERS 132 KELLEY DRIVE ROGERS, AR 72756
	LI LI	K2 LAY-IN LIGHT FIXTURE W/ BATTERY FEATURES, LITHONIA GHTING, 2VTL2-40L-ADPT EZ1- LP840-(EL14L), LED (4000 JMEN) 400K/35W	479.631.1712 EXT 101 ADVENGINEERS.COM CONTRACTOR
	22	(4 LAY-IN LIGHT FIXTURE W/ BATTERY FEATURES	SOUTHWIND GROUP 1218 ENERGY DRIVE ABILENE, TX 79602 325.695.1111 SOUTHWINDGRP.COM
		RECESSED CAN LIGHT, LITHONIA LIGHTING, REAL6 D6MV ESL 000L 30K	
		ED STRIP LIGHTING CONCEALED IN COVER PER DETAIL 4/A111 FLEXFIRE LEDS, COLORBRIGHT NATURAL WHITE	ARCHITECT: THOMAS JASON PROEBSTLE LICENSE NO. A-2002017812
	AI	REA NOT IN SCOPE	OF MICH
= 1'-0"			A-2002017812. WIMBER A-2002017812. 8/14/2024 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         2       DESIGN CLARIFICATION       08/06/2024
			PROJECT NO. 16014 DRAWN BY: CH CHK'D BY: PB SHEET TITLE REFLECTED CEILING PLAN A102
<u>AN</u> <b>A2</b>			

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NORTH

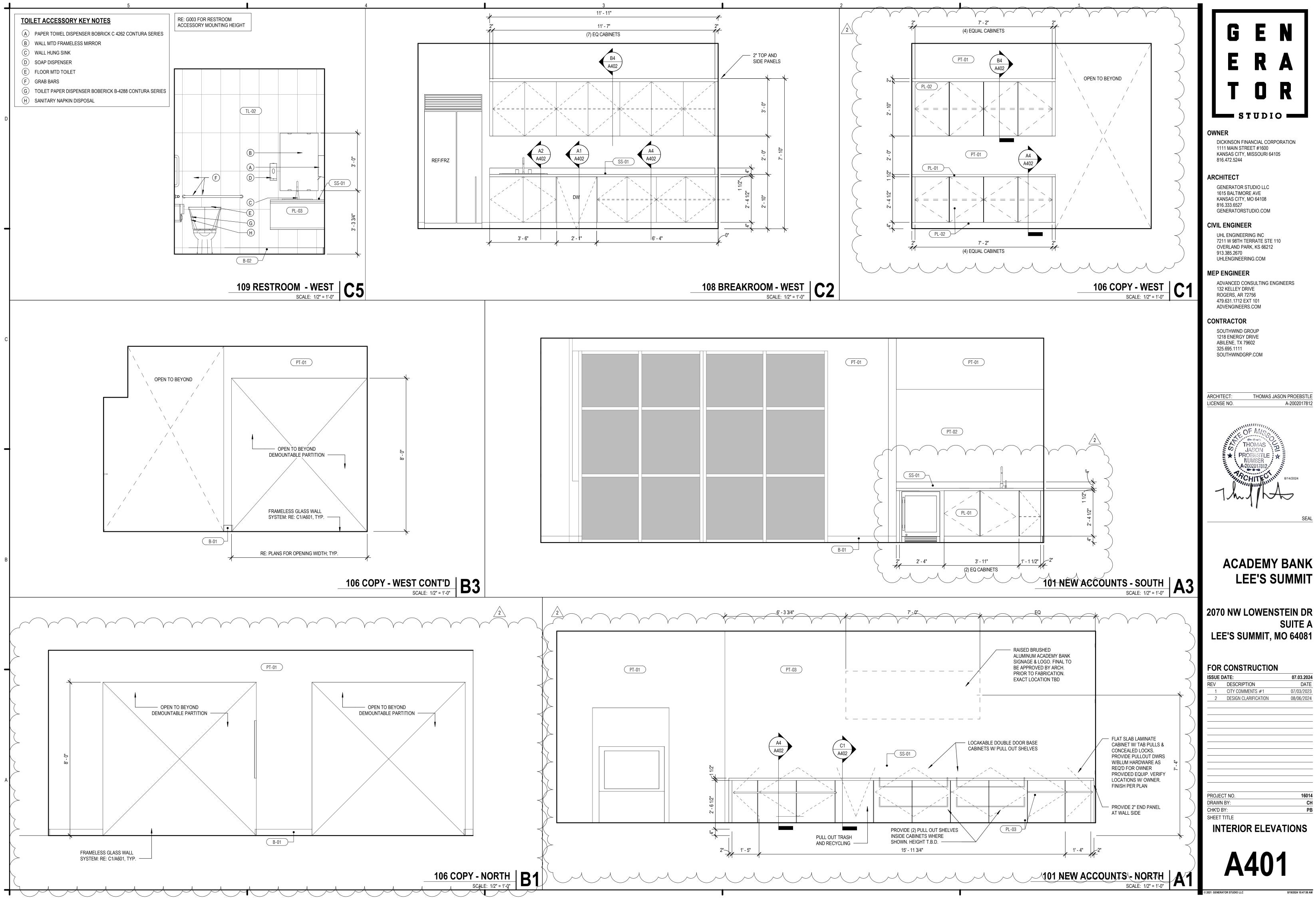
	I	1			
	<u>FINIS</u>	H PLAN GENERAL NOTES			
	A.	ALL WALLS TO BE P1 UNLESS NOTED OTHERW PAINTED P3, CEILING BRIGHT WHITE UNLESS			
	B.	ALL FLOOR AND WALL FINISHES ARE TO BE PF PROFESSIONAL CARPET, TILE AND/OR FLOOIN			
	C.	CONTRACTOR SHALL ADHERE TO ALL CURREI FOR APPROVED INSTALLATION METHODS (FO TYPES, CUTTING METHODS AND SEAM SEALE	R EXAMPL		
	D.	ALL MATERIALS SHALL BE INSPECTED FOR FL CUTTING.	AWS, DEF	ECTS OR DISCOLORATION PRIOR TO	
	E.	ALL CHANGES IN FINISH FLOORING MATERIAL CENTERLINE OF THE DOORWAY U.N.O. ALL OT ACCOMPLISHED SMOOTHLY TO THE SATISFAC HEIGHT DIFFERENCE IN FLOORING MATERIAL LEVELER OR FLOOR LEVELING COMPOUND TO	THER FLO CTION OF CHANGES	ORS MATERIAL TRANSITIONS SHALL BE THE ARCHITECT AND OWNER. NO S PERMITTED. USE ROPPE SUBFLOOR	
	F.	FURNISH AND INSTALL PROPER METAL TRANS			DICKINSON FINANCIAL CORPORATION 1111 MAIN STREET #1600 KANSAS CITY, MISSOURI 64105
	G.	CONTRACTOR TO IMMEDIATELY NOTIFY ARCH ENCOUNTERED DURING INSTALLATION AND S			816.472.5244
	н.	DEFECTIVE MATERIAL. ALL CABINET DOORS AND DRAWERS SHALL U HINGES, FULL-EXTENSION DRAWER GLIDES FI ELEVATIONS FOR PULL TYPES AND SPECIFIC	OR FLUSH	-OVERLAY CONSTRUCTION. RE:	ARCHITECT GENERATOR STUDIO LLC 1615 BALTIMORE AVE KANSAS CITY, MO 64108
<b>► D</b> 2	I.	VINYL WALL COVERING NO SEAM DOWN MIDD	LE OF WA	LL AND NO OPEN EDGES AT CORNERS.	816.333.6527 GENERATORSTUDIO.COM
-0"	<u>FINIS</u>	<u>H LEGEND</u>			CIVIL ENGINEER UHL ENGINEERING INC
		1-HOUR RATED WALL PER CO	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
		LVT 1			SOUTHWIND GROUP 1218 ENERGY DRIVE ABILENE, TX 79602
		SEALED CONC. FLOOR			325.695.1111 SOUTHWINDGRP.COM
<u>T</u> <b>C2</b>	TL-02	MANUF: TARKETT PATTERN: CACHE TWEED SIZE: 24"X24" INSTALLATION: VERTICAL ASHLAR COLOR: SHADOW GRIS 42710 CONTACT: ABBEY HELLAND 816.678.8605 MANUF: CROSSVILLE PATTERN: SHADES 2.0 SIZE: 12"X24" COLOR: THUNDER UPS GROUT COLOR: MAPEI IRON CONTACT: VIRGINIA TILE MANUF: CROSSVILLE PATTERN: SHADES 2.0 SIZE: 12"X24"	PT-01 PT-02 PT-03 PT-04	BENJAMIN MOORE COLOR: SUPER WHITE OC-152 LOCATION: FIELD PAINT TYPE: EGGSHELL FOR WALLS; FLAT FOR CEILING BENJAMIN MOORE COLOR: SEAWEED 2035-10 LOCATION: ACCENT TYPE: EGGSHELL BENJAMIN MOORE COLOR: KITTY GRAY 1589 LOCATION: ACCENT TYPE: EGGSHELL BENJAMIN MOORE	THOMAS JASON PROEBSTLE NUMBER A-2002017812. 8/14/2024
		COLOR: ASH UPS GROUT COLOR: MAPEI IRON LOCATION: RESTROOM		COLOR: SUPER WHITE OC-152 LOCATION: WET WALL TYPE: EPOXY	SEAL
		ELOORING MANUF: BENTLEY MILLS PATTERN: MEMORY COLOR: CRAFTSMAN 801980 SIZE: 9" X 48" INSTALLATION: RANDOM CONTACT: ALI SKILLING 913.387.9668		SURFACE MANUF: CORIAN COLLECTION: CORIAN QUARTZ COLOR: COARSE CARRARA CONTACT: KRISTY RINNE 314.254.6634	ACADEMY BANK LEE'S SUMMIT
	<u>BASE</u> RB-01	MANUF: JOHNSONITE TYPE: RUBBER BASE - COVE COLOR: WHITE	PLAST PL-01	IC LAMINATE MANUF: WILSONART STYLE: MATTE FINISH COLOR: FROSTY WHITE -1573-60	
	B-01	WOOD BASE PAINTED TO MATCH WALL PAINT COLOR RE: C1/A601 FOR DETAIL	PL-02	CONTACT: MANDY BRIDGES 913.484.2691 MANUF: WILSONART	2070 NW LOWENSTEIN DR SUITE A
	B-02	MANUF: CROSSVILLE TYPE: TILE BASE TO MATCH FLOOR COLOR: ASH LOCATION: RESTROOMS	PL-03 -	STYLE: MATTE FINISH COLOR: NORTH SEA D90-60 CONTACT: MANDY BRIDGES 913.484.2691 MANUF: WILSONART	LEE'S SUMMIT, MO 64081
		TICAL CEILING TILES MANUF: ARMSTRONG STYLE: ULTIMA 24X24 COLOR: WHITE 9/16" GRID		COLOR: FAWN CYPRESS 8208K-16 CONTACT: MANDY BRIDGES 913.484.2691	FOR CONSTRUCTION         ISSUE DATE:       07.03.2024         REV       DESCRIPTION       DATE
	<u>WOOD</u> WD-01 -	SPECIES: WHITE OAK GRAIN: STRAIGHT GRAIN, HORIZONTAL ORIENTATION STAIN: TO MATCH ARCHITECTS SAMPLE			1         CITY COMMENTS #1         07/03/2023           2         DESIGN CLARIFICATION         08/06/2024
		VALLCOVERING 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

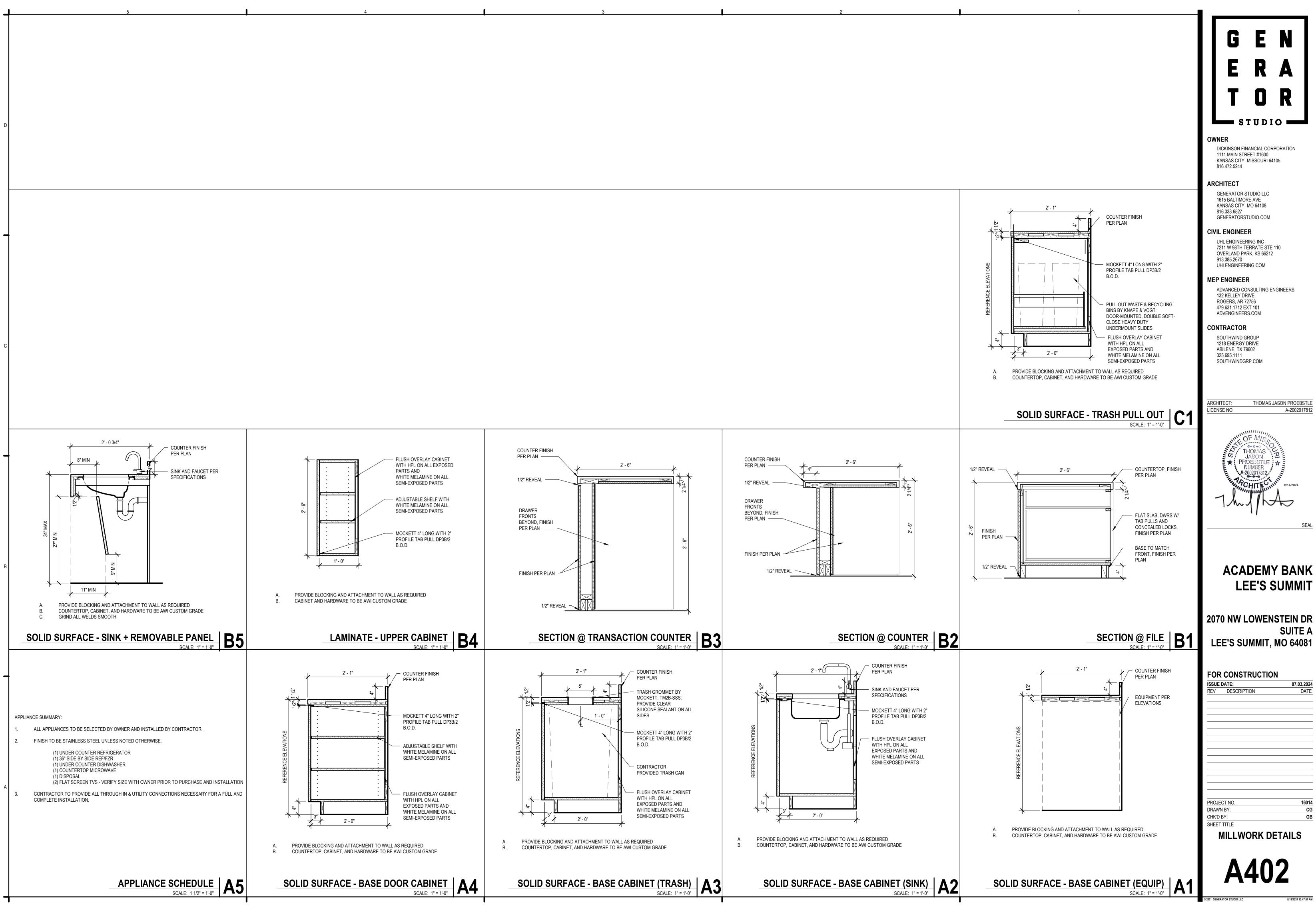
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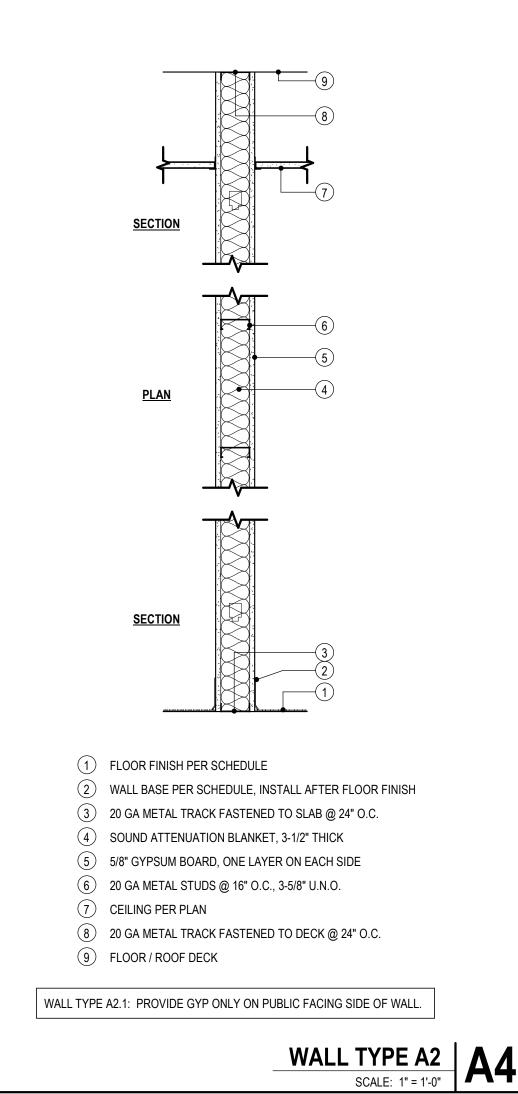


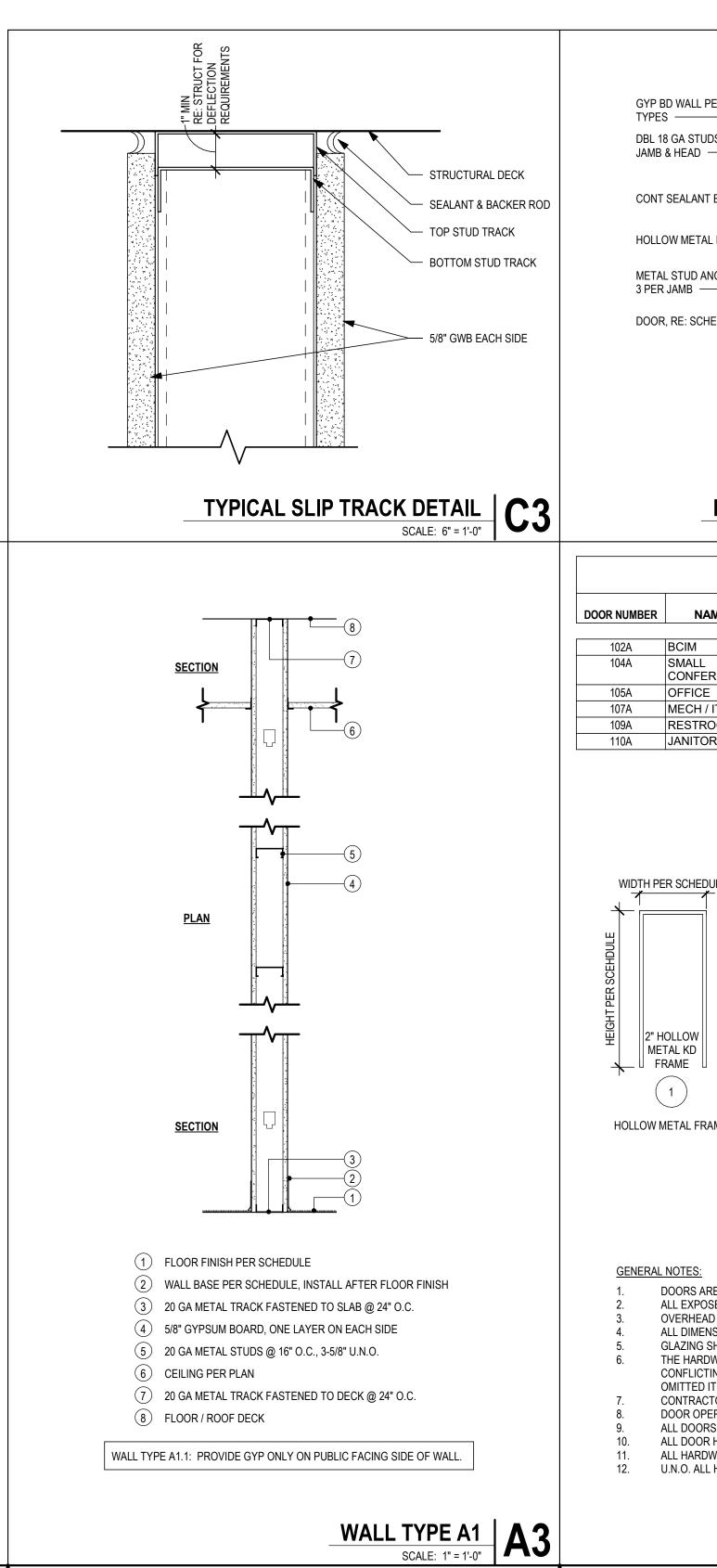
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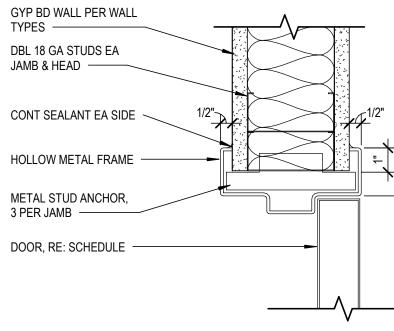
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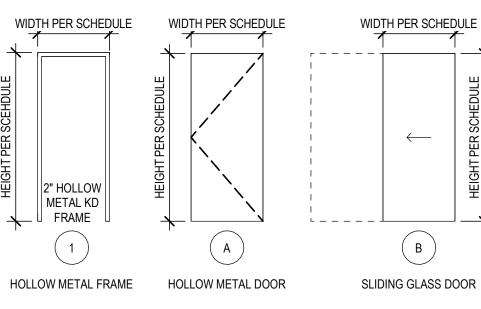






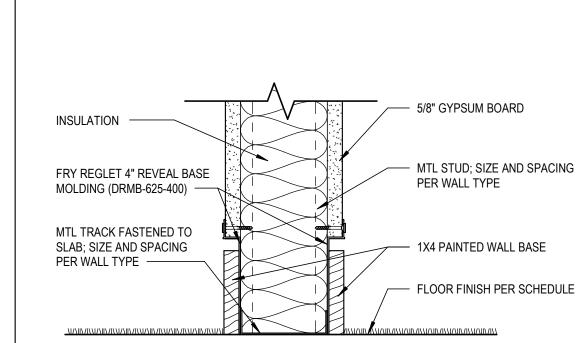
#### HEAD/JAMP DETAIL @ GYP WALL C2 SCALE: 3" = 1'-0"

	DOOR SCHEDULE						
DOOR NUMBER	NAME	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL
102A	BCIM	3' - 0"	7' - 10"	В	GLASS	-	-
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	НМ
110A	JANITOR	3' - 0"	7' - 0"	A	HM	1	HM



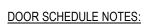
- DOORS ARE TO HAVE LEVER TYPE HARDWARE, SCHLAGE ND-SERIES OR EQUAL, UNLESS OTHERWISE NOTED
- OVERHEAD CLOSERS INDICATED SHALL BE FURNISHED WITH MAXIMUM OPENING LIMITATION OF 110 DEGREES.
- GLAZING SHALL BE FULLY TEMPERED \*T( WHEREINDICATED ON THE DRAWINGS AND REQUIRED TO MEET REQUIREMENTS OF IBC AND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

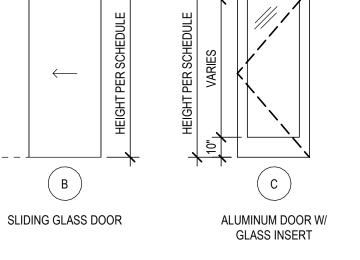
## TYPICAL WOOD BASE DETAIL C1



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

SCALE: 3" = 1'-0"

- 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

- HARDWARE SCHEDULE: SET #1 (1) PRIVACY LOCKSET (3) BUTT HINGES (1) WALL STOP (1) OVERHEAD CLOSER (1) STOREROOM LOCKSET (3) VISIBLE HINGES PER EZY JAMB SET #2
  - (1) WALL STOP (1) OVERHEAD CLOSER
- 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.

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

ARCHITE	CT:
LICENSE	NO

THOMAS JASON PROEBSTLE A-2002017812



### ACADEMY BANK LEE'S SUMMIT

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

FOR	CONSTRUCTIO	N
ISSUE D	ATE:	07.03.2024
REV	DESCRIPTION	DATE
PROJEC		16014
DRAWN CHK'D B'		<u>СН</u> РВ
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DOOR & FRAME TYPES AND SCHEDULE SCALE: 1/4" = 1'-0"

## LEGEND

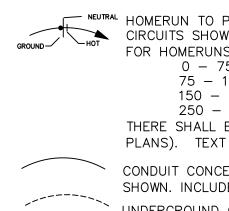
	CONDUIT AND WIRE CONCEALED IN WALL OR ABOVE CEILING
	CONDUIT AND WIRE CONCEALED UNDERFLOOR OR UNDERGROUND
0 ю б	LUMINAIRE SYMBOLS. SEE LUMINAIRE SCHEDULE FOR SPECIFIC FIXTURES.
\$	SINGLE POLE, SINGLE THROW LIGHT SWITCH, 20A (WP = WEATHERPROOF COVER)
\$3	THREE-WAY LIGHT SWITCH, 20A
\$ <sub>AS</sub>	SINGLE POLE, SINGLE THROW LIGHT SWITCH WITH AUTO SENSOR
\$ <sub>PL</sub>	SINGLE POLE, SINGLE THROW LIGHT SWITCH WITH PILOT LIGHT
\$ <sub>PB</sub>	PUSHBUTTON DOOR BELL ACTIVATOR
\$ <sub>T</sub>	TIMER SWITCH
\$ <sub>D</sub>	DIMMER SWITCH
\$ <sub>V</sub>	VARIABLE SPEED FAN CONTROL SWITCH
0	SINGLE RECEPTACLE, GROUNDED
<del>\$</del>	DUPLEX RECEPTACLE, GROUNDED
⊕ <sub>IG</sub>	DUPLEX RECEPTACLE, ISOLATED GROUND DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTION (GFCI)
<del>ଦ</del> ୍ୱି <sub>GFCI</sub> କୁନୁମ୍ବା	DUPLEX RECEPTACLE, GFCI WITH WEATHERPROOF COVER
WP 1©	DUPLEX RECEPTACLE, WITH (2) USB PORTS
ÌŒ	FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE
Ø	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
<b>≥</b>	FIRE ALARM SYSTEM MINI-HORN/STROBE COMBINATION, GUESTROOM
X	FIRE ALARM SYSTEM STROBE
	FIRE ALARM SYSTEM HORN/STROBE
(50)	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR, GUESTROOM
(SD)	FIRE ALARM SYSTEM SMOKE DETECTOR
	FIRE ALARM SYSTEM THERMAL DETECTOR
FSD Ø <sub>FSD</sub>	120V CONNECTION TO FIRE/SMOKE DAMPER
X	DOORBELL CHIME WITH ALERT LIGHT
Ū	JUNCTION BOX
$\bigcirc$	THERMOSTAT
	TELEPHONE TERMINAL BOARD (TTB)
• • • • • • • • • • • • • • • • • • •	TELEPHONE OUTLET, MOUNTED AT 18" UNLESS OTHERWISE INDICATED
<ul><li>■ 48"</li><li>HP</li></ul>	HOUSE TELEPHONE OUTLET MOUNTED AT 48" AFF WITH MINIMUM 1/2" C.O. TO TTB
Τ	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
$\blacktriangleleft$	DUPLEX TELEPHONE/DATA OUTLETS
●	PUSHBUTTON
	PANELBOARD
	ELECTRICAL DISTRIBUTION EQUIPMENT
	DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER
	COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SWITCH
TS	TIME SWITCH MOTOR CONNECTION
\$ \$.	MOTOR CONNECTION MOTOR RATED SWITCH
\$ <sub>M</sub>	
	CONNECTION TO ELECTRONIC CARD READER/DOOR RELEASE
	CLOSED CIRCUIT SECURITY CAMERA
$ \bigcirc $	ELECTRO-MAGNETIC DOOR HOLDER
XX	SPEAKER – CEILING

## NEC GENE

- . WHERE THE CONDUCTORS IN A RACEWA' AMPACITY OF EACH CONDUCTOR SHALL (310.15(B)(2))
- 2. WHERE THE CONDUCTORS OR CABLES SUNLIGHT ON OR ABOVE ROOFTOPS SHALL BE REDUC
- 3. WHERE TWO DIFFERENT AMPACITIES APP AMPACITY SHALL BE PER THE 310.15(2) EXCEPTION
- 4. WHERE THE MAXIMUM AMBIENT TEMPERA CORRECTION FACTORS SHALL APPLY TO CONDUCTORS
- 5. INDICATE WHICH WIRING METHODS (E.G., INSTALLED AT ANY/ALL LOCATIONS ON THE PLANS
- 6. NOT USED
- 7. NOT USED
- 8. EACH MULTI-WIRE BRANCH CIRCUIT SHA SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCT ORIGINATES. (210.4(B)).
- 9. ALL WORK TO COMPLY WITH NATIONAL
- 10. THE UNGROUNDED AND GROUNDED CONE SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEA PANELBOARD OR OTHER POINT OF ORIGINATION. (210.
- 11. PROVIDE SEPARATE SUBMITTAL, OBTAIN APPROVALS FOR ALL FIRE ALARM SYSTEM INSTALLATIONS ALL INSTALLED EQUIPMENT SHALL BE LI TESTING LABORATORY.
- 12. ALL INSTALLED EQUIPMENT AND MATERIA THE INTENDED PURPOSE.
- 13. ALL EQUIPMENT TO BE U.L. LISTED OR
- 14. FIELD VERIFY SERVICE RECEPTACLE IS EQUIPMENT. (210.63)
- 15. MULTIPLE RACEWAYS CONTAINING MORE COMPLY WITH [2017, NEC, 310.15(B)(2)(A)].
- 16. WHERE THE DISCONNECTS ARE NOT PRO SUPPLIES, THE SWITCH OR CIRCUIT BRE LOCK, AND THESE PROVISIONS MUST RE
- PROVISIONS HAVE TO BE PART OF THE 17. DESIGN OR AS AN ACCESSORY FEATUR [410.141(B), 422.31(B), 424.19, 440.14 600.6(A)(2)(3), 620.51(A) EXCEPTION N
- 18. LIGHT FIXTURE IN CONTACT WITH INSULA PROVIDE 3" MINIMUM CLEARANCE.
- 19. LIGHTS AND PANELS SHALL NOT BE REC WITH EQUIVALENT CONSTRUCTION.
- 20. MOUNT THE FOLLOWING ABOVE FINISHED OUTLETS- 18" TO 48"
- SWITCHES- 36" TO 48" THERMOSTATS- 36" TO 48" MEASURED FROM BOTTOM & TOP OF BO
- 21. PANEL CIRCUIT DIRECTORY TO COMPLY
- 22. W.P. COVER OF OUTLETS TO COMPLY WI

## APPLICABL

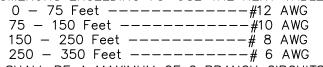
- CODES:
- NATIONAL ELECTRICAL CODE 2017 COMPLY WITH LOCAL JURISDICTION



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.

ERAL NOTES:	ABBREVIATION	S
AY OR CABLE EXCEEDS THREE, THE ALLOWABLE BE REDUCED PER TABLE 310.15(B)(2). ARE INSTALLED IN CONDUITS EXPOSED TO DIRECT CED PER TABLE 310.15(B)(2)(C). PLY TO ADJACENT PORTIONS OF A CIRCUIT, THE DN. ATURE IS OVER 30°C, (86°F), THE REFERENCED RS. (TABLE 310.16 TO 19) , FMC, EMT, AC, IMC, RMC, ETC.) ARE TO BE S. (CHAPTER 9, TABLES 4, 5 &5A, APPENDIX C) ALL BE PROVIDED WITH A MEANS THAT WILL CTORS AT THE POINT WHERE THE BRANCH CIRCUIT	AAMPEREGNDACALTERNATING CURRENT, ABOVE COUNTERGRSAFFABOVE FINISHED FLOORHIDAICAMPS INTERRUPTING CAPACITYHPALALUMINUMHTAMPAMPEREKCMILAWGAMERICAN WIRE GAUGEKECBKRBREAKERKVABLDGBUILDINGKWBOHBACK OF HOUSELTGCCOIL or CONDUITMFRCKTCIRCUITMINCOCONDUIT/RACEWAY ONLYMLOCTCURRENT TRANSFORMERNCQCOOPERNECADCODUPLEX CONVENIENCE OUTLETNTDNDOWNNTSEXISTEXISTINGPNLEFEXHAUST FANPOCELECELECTRICALPTEMTELECTRICALPTEMTELECTRICAL METALLIC TUBINGPVCEQUIPEQUIPMENTPWRFLRFLOORQTYFLUORFLUORESCENTRECEPTFOHFRONT OF HOUSERIGFCIGROUND FAULT CIRCUIT INTERRUPTERRM	GROUND GALVANIZED RIGID STEE HIGH INTENSITY DISCHAR HORSEPOWER HEAT TRACE THOUSAND CIRCULAR M KITCHEN EQUIPMENT CO KILOVOLT AMPERES KILOWATT LIGHTING MANUFACTURER MINIMUM MAIN LUGS ONLY NEUTRAL NATIONAL ELECTRICAL NATIONAL ELECTRICAL NEON TRANSFORMER NOT TO SCALE PANEL POINT OF CONNECTION POTENTIAL TRANSFORMER POLYVINYL CHLORIDE POWER QUANTITY RECEPTACLE ROUGH—IN ROOM
ELECTRIC CODE 2020. NDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT EANS IN AT LEAST ONE LOCATION WITHIN THE (A(0)) I ALL REQUIRED PERMITS, INSPECTIONS AND S AND / OR MODIFICATIONS ISTED AN APPROVED BY A CITY APPROVED IAL SHALL BE NRTL LISTED AND APPROVED FOR EQUIVALENT. PROVIDED WITHIN 25' OF MECHANICAL E THAN 2 CURRENT CARRYING CONDUCTORS SHALL OVIDED WITHIN SIGHT FROM THE EQUIPMENT IT EAKER MUST INCLUDE PROVISIONS FOR ADDING A EMAIN WITH THE EQUIPMENT. THESE LOCKING E COUPMENT, EITHER INHERENT TO THE EQUIPMENT E THAT CAN BE INSTALLED ON THE EQUIPMENT. EXCEPTION NO. 1, NO. 1, 620.53, 620.55] ATION TO BE U.L. LISTED FOR THERMAL BARRIER OR CESSED IN FIRE RATED ASSEMBLIES UNLESS BOXED, O FLOOR: OXES RESPECTIVELY. WITH SECTION 408.4, NEC. ITH SECT. 406.8 (B) (I), NEC. E CODES	<ul> <li>GENERAL NOTES</li> <li>PROVDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH NATIONAL EXPENSIONAL CODE NATIONAL EXERTICAL SAFETY CODE, LOCAL CODES, OPENNANCES AND REQUIREMENTS OF UTILITY COMPANIES FURNISHING SERVICES AND REQUIREMENTS OF UTILITY COMPANIES FURNISHING SERVICES AND RECESSARY TO COMPLETE ELECTRICAL SYSTEMS. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY CONDUIT, BOX, CONDUCTOR OR SIMILAR HEMS FOR A COMPLETE INSTALLATION.</li> <li>THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND DETERMINE CONDITIONS WHICH WAS AFFECT BID. ANY HEMS NOT FULLY UNDERSTOOD SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING. PLANS ARE BASED ON OUR BEST LUNDRESTANDING OF EXISTING CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERTICATION OF ALL RELEVANT EXISTING CONDITIONS.</li> <li>"REFE" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, OR MECHANICAL).</li> <li>WHEREVER THE WORD "PROVIDE" IS USED. IT MEANS, "FURNISH AND INSTALL COMPLETE AND READY FOR USE."</li> <li>COORDINATE LOCATION OF ELECTRICAL WITH OTHER TRADES.</li> <li>REFER TO ARCHITECTURAL DRAWINGS FOR MECHANICAL CHARACTERISTICS (SIZE, LOCATED.</li> <li>PROVIDE CONDUCTORS AND RACEWAYS PER NATIONAL ELECTRICAL CODE.</li> <li>REFER TO ARCHITECTURAL DRAWINGS FOR KEY PLANS.</li> <li>ALL DIMENSIONS SHALL BE PER THE ARCHITECTURAL DRAWINGS.</li> <li>PROVIDE CONDUCTORS AND RACEWAYS PER NATIONAL ELECTRICAL CODE.</li> <li>REFER TO ARCHITECTURAL DRAWINGS FOR KEY PLANS.</li> <li>ALL DIMENSIONS SHALL BE PER THE ARCHITECTURAL DRAWINGS.</li> <li>PROVID TO PROVIDING CABLES FOR TY, CONFIRM REQUIREMENTS WITH ARCHITECT.</li> <li>NEW ELECTRICAL BOXES LOCATED IN MALLS SEPARATING TWO ROOMS SHALL NOT BE LOCATED." BACK TO BACK." INSTALL PUTTY PACKS BEHIND NEW BOXES FOR SOUND ATTENUATION.</li> <li>ALL RECEPTACLES AND SWITCHES SHALL BE BETWEEN 18" AND 48" AFF. ADJUST HEIGHT AS REQUIRED TO INSTALL FLUSH MOUNT ALL RECEPTACLES BOXES IN FINISHED WALLS THROUGHOUT.</li> <li>CONTRACTOR TO INSTALL WER RATED ALARM W</li></ul>	S SHEET NUMBE E-000 E-100 E-101 E-600 E-700 SHEET NUMBE
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:



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).

ED RIGID STEEL NSITY DISCHARGE WER ACE	RO SHT SPEC SW SWBD
CIRCULAR MILLS EQUIPMENT CONTRACTOR	SWGR TE
AMPERES	TYP
TURER	UC UG
SS ONLY	UL UON V
ELECTRICAL CODE (NFPA-70) ELECTRICAL MANUFACTURERS ASSOCIATION ANSFORMER SCALE	W WW WP W/
CONNECTION L TRANSFORMER	W/O XFMR 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

THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND I SOME CASES, BASED ON 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 ROGERS, AR 72756 PRIOR TO START OF PH 479.631.1712 || EQUIPMENT IN MECHANICAL ROOM TO ENSURE PROPER SPACE AND

WITH ANY ISSUES.

PRIOR TO BID/START OF CONSTRUCTION REQUIREMENTS



FX 479.631.1854 CLEARANCES ARE AVAILABLE.

ALINITATE OF MISSON DANKY

OWNER

DICKINSON FINANCIAL CORPORATION

1111 MAIN STREET #1600

KANSAS CITY, MO 64105

GENERATOR STUDIO LLC

KANSAS CITY, MO 64108

GENERATORSTUDIO.COM

SOUTHWIND GROUP

1218 ENERGY DRIVE ABILENE, TX 79602 325.695.1111

SOUTHWINDGRP.COM

1615 BALTIMORE AVE

816.472.5244

816.333.6527

CONTRACTOR

ARCHITECT:

LICENSE NO.

ARCHITECT

SEAL

MIKE KRESS

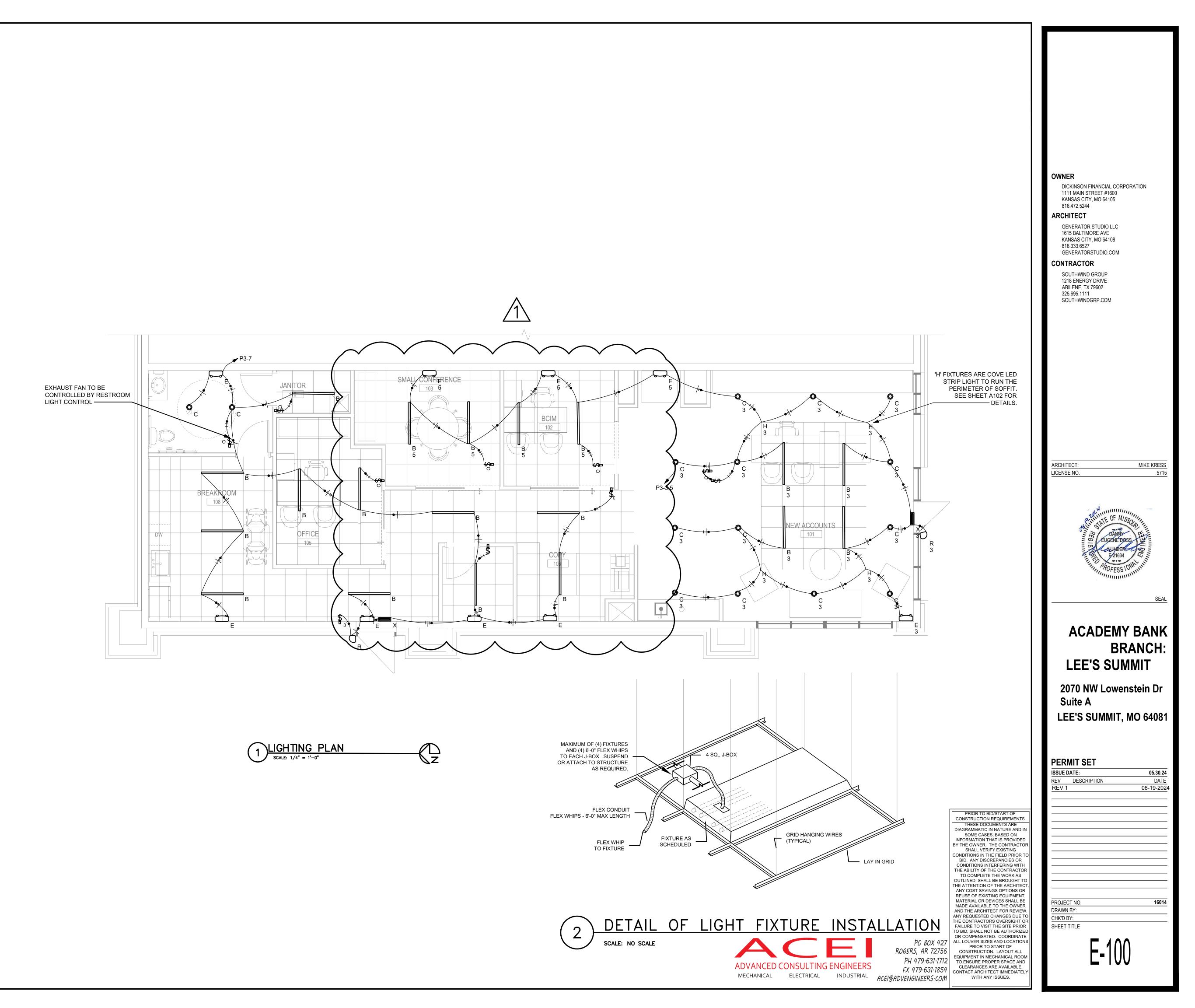
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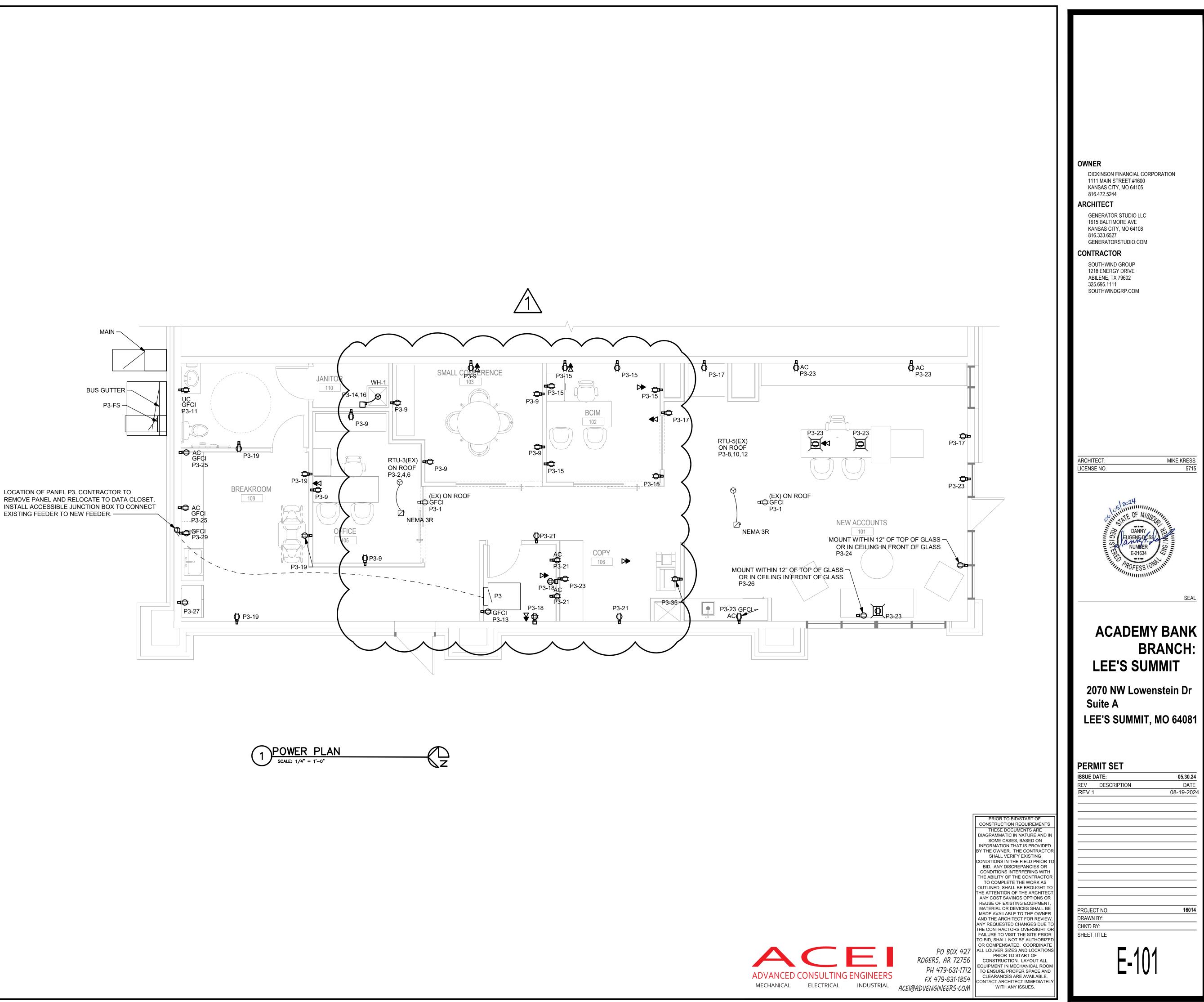
### ACADEMY BANK **BRANCH**: **LEE'S SUMMIT**

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

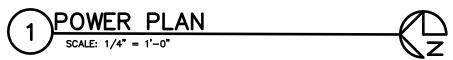
### PERMIT SET

ISSUE	DATE:	05.30.24
REV	DESCRIPTION	DATE
		40044
	CT NO.	16014
DRAW		
CHK'D	BY:	
SHEET	TITLE	
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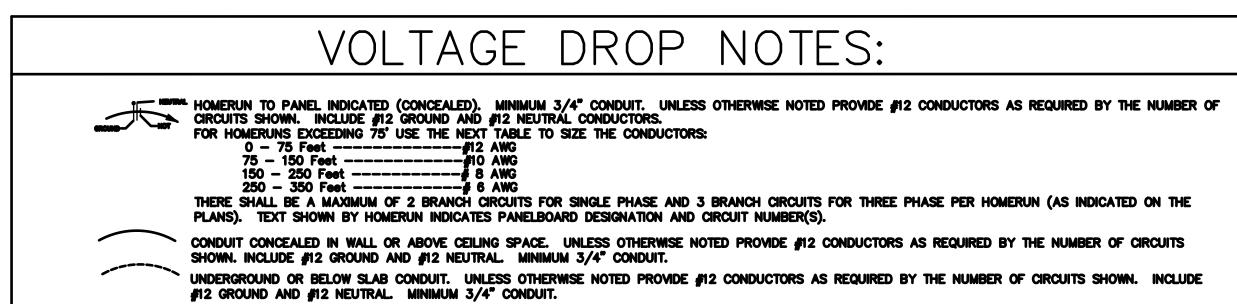


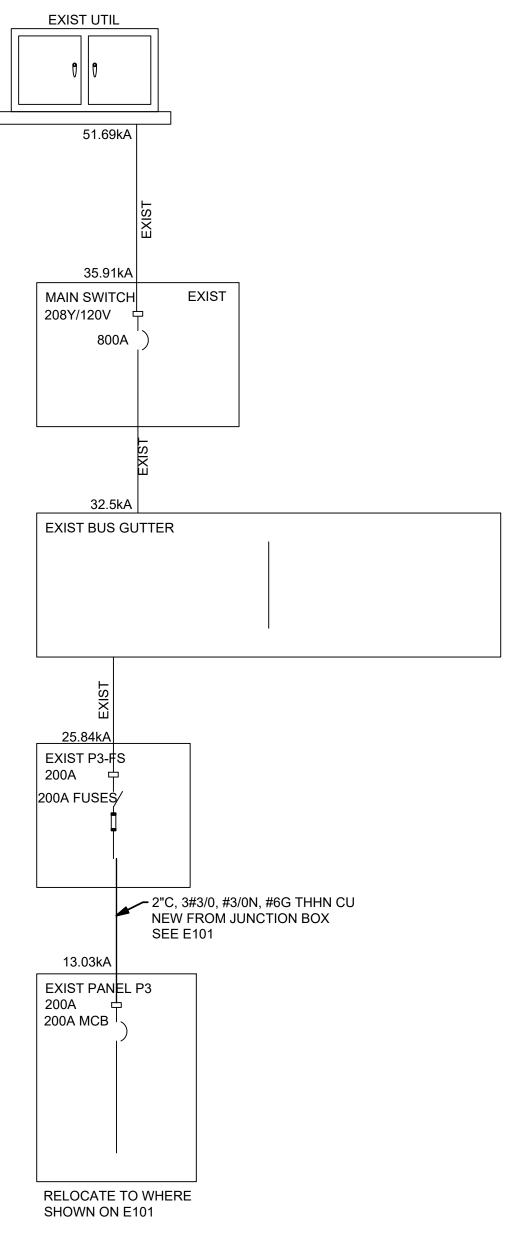




	IAIRE SCHE	EDULE	
CALLOUT	SYMBOL	MODEL	INPUT WATTS
В		Lithonia Lighting, ZL1N L48 5000LM FST MVOLT 40K 80 CRI	34.31
С	O	Lithonia Lighting, ZL2N L24 2000LM MDD XX 40K 80CRI XX	35.01
E		Lithonia Lighting, ELM6L	8.4
Н		Flexfire LEDs Colorbright Natural White Strip	55
R	D	Lithonia Lighting, MR24 K0606	5.4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

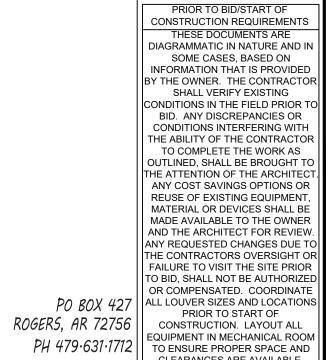
EQUIF	MENT S	SCHEDULE			
CALLOUT	SYMBOL	VOLTS	AMPS	BREAKER	CIRCUIT
RTU-3(EX)	<u>م</u> ريم	208V 3P 3W	28	35/3	P3-2,4,6
RTU-5(EX)	<u>م</u> ريم	208V 3P 3W	35	50/3	P3-8,10,12
WH-1	<u>م</u>	208V 2P 2W	21.63	30/2	P3-14,16





	NTING <b>FLUSH</b> FROM <b>P3-FS</b>	VOLTS <b>208</b> BUS AMPS NEUTRAL	200	3P 4W		AIC <b>22,000</b> MAIN BKR <b>200</b> LUGS <b>STANDARD</b>
СКТ #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION		LOAD V	1	FEEDER RACEWAY AND CONDUCTORS
# 1 3 5 7 9 11 3 5 7 9 11 3 5 7 9 11 3 5 7 9 11 3 5 7 9 11 3 5 7 9 11 3 5 7 9 11 3 2 5 2 7 9 3 3 3 5 7 9 4 2 4 6 8 10 2 4 6 8 10 2 2 4 2 6 8 10 2 2 4 2 6 8 3 0 1 2 4 6 8 10 2 2 4 6 8 10 1 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$\begin{array}{r} \mbox{IRIP/POLES} \\ 20/1 \\ 20/1 \\ 20/1 \\ 20/1 \\ 20/1 \\ 20/1 \\ 20/1 \\ 20/1 \\ 20/1 \\ 20/1 \\ 20/1 \\ 20/1 \\ 20/1 \\ 20/1 \\ -/1 \\ -/1 \\ -/1 \\ 35/3 \\   \\ 30/2 \\   \\ 20/1 \\ -/1 \\ -/1 \\ 20/1 \\ -/1 \\ -/1 \\ 20/1 \\ -/1 \\ -/1 \\ 20/1 \\ -/1 \\ -/1 \\ 20/1 \\ -/1 \\ -/1 \\ 20/1 \\ -/1 \\ -/1 \\ 20/1 \\ -/1 \\ -/1 \\ 20/1 \\ -/1 \\ -/1 \\ 20/1 \\ -/1 \\ -/1 \\ 20/1 \\ -/1 \\$	MAINT RECEPTACLE LIGHTING LIGHTING LIGHTING OFFICE 104 & 105 RECEPTACLES FAUCET SENSOR MAINT RECEP ENGAGEMENT RECEPTACLES BCIM RECEPTACLES BCIM RECEPTACLES BREAKROOM RECEPTACLES NEW ACCOUNTS RECEPTACLES BREAKROOM GFCI FRIDGE – GFCI BREAKER DISHWASHER RECEPTACLE SPACE SPACE SPACE SPACE SPACE SPACE MH–1 DATA RECEPTACLE SPACE	<ul> <li>A</li> <li>360</li> <li>497</li> <li>180</li> <li>720</li> <li>360</li> <li>0</li> <li>0</li> <li>0</li> <li>4,200</li> <li>4,200</li> <li>2,250</li> <li>0</li> <li>1,230</li> </ul>	В 793 1,440 1,080 720 1,000 0 1,000 0 3,360 4,200 2,250 0 0	С 231 180 540 1,440 1,300 1,000 0 3,360 4,200 720 1,230 0	FEEDER RACEWAY AND CONDUCTORS         1/2"C,1#12,#12N,#12G         1/2"C,1#10,#10N,#10G         1/2"C,1#10,#10N,#10G         1/2"C,1#12,#12N,#12G         1/2"C,1#12,#12N,#12G
32 34 36 38 40 42	-/1 -/1 -/1 -/1 -/1 -/1	SPACE SPACE SPACE SPACE SPACE SPACE	0	0 0	0	
	HTING GEST MOTOR	CONN VA         CALC VA           1,520         1,900         (125%)           12,600         3,150         (25%)		MOT REC CON	TORS EPTACLE ITINUOUS AL LOAD	ES 13,500 CALC VA (100%) (100%) (50%>10)

1 SINGLE LINE DIAGRAM





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

 FX 479.631.1854 WITH ANY ISSUES.

OWNER DICKINSON FIN. 1111 MAIN STRE KANSAS CITY, M 816.472.5244 ARCHITECT GENERATOR ST 1615 BALTIMOR KANSAS CITY, M 816.333.6527 GENERATORST OCONTRACTOR SOUTHWIND GF 1218 ENERGY D ABILENE, TX 79 325.695.1111 SOUTHWINDGR	MO 64105 FUDIO LLC E AVE MO 64108 FUDIO.COM ROUP PRIVE 602	RATION
ARCHITECT: LICENSE NO.		MIKE KRESS 5715
Sill REGISTORY	DANNY EUGENE DOSS DUMBER E21634 PROFESS 10	SEAL
	BR/ S SUM / Lowens	BANK ANCH: MIT stein Dr
PERMIT SET ISSUE DATE: REV DESCRIPT		05.30.24 DATE
PROJECT NO. DRAWN BY: CHK'D BY:		16014
SHEET TITLE	E-60(	)

	16010 BASIC ELEC	TRICAL	REQUIREMENTS	
PART 1	GENERAL			I
1.01	SECTION INCLUDES			
A.	BASIC ELECTRICAL REQUIREMENTS SPECIFICALLY APPLICABLE TO DIVISION 16, IN ADDITION TO DIVISION 1 – GENERAL REQUIREMENTS.			
1.02	SUBMITTALS			
А. В.				
	<ol> <li>WIRING DEVICES AND COVER PLATES.</li> <li>DISCONNECT SWITCHES.</li> </ol>			l
	<ol> <li>3. PANELBOARDS.</li> <li>4. LIGHT FIXTURES.</li> </ol>			
C.	WITH THE LABEL OR NUMBER OF THE EQUIPMENT, AS DESIGNATE			
D.	DRAWINGS, ADJACENT THERETO. . SUBSTITUTIONS: WHERE A SPECIFIC MANUFACTURER OR TRADE N IS MENTIONED IN THE SPECIFICATION, IT IS TO ESTABLISH A	NAME		
	STANDARD OF QUALITY. SUBSTITUTIONS FOR SPECIFIED EQUIPME ARE ALLOWED ONLY WHEN SUBSTITUTIONS OR APPROVED EQUALS	S ARE		
	NOTED. SUBSTITUTION OF OTHER MAKES SHALL BE APPROVED E THE ARCHITECT\ENGINEER AND/OR OWNER, 10 DAYS PRIOR TO E			
1.03	REGULATORY REQUIREMENTS			
A. 1.04	CONFORM TO APPLICABLE BUILDING CODES.			I
A.	VISIT THE SITE, EXAMINE AND VERIFY THE CONDITIONS UNDER			I
	WHICH WORK MUST BE CONDUCTED BEFORE SUBMITTING A PROP THE SUBMITTING OF A PROPOSAL IMPLIES THAT THE CONTRACTOF HAS VISITED THE SITE, IS CONVERSANT WITH ALL SITE			
	CONDITIONS, INCLUDING EXISTING SERVICES AND EQUIPMENT, OBSTRUCTION AND ALL CONDITIONS, WHICH WILL BE ENCOUNTERE			
	IN THE REMOVAL AND/OR RELOCATION OF PRESENT MATERIALS A EQUIPMENT, INSTALLATION OF NEW MATERIALS, ETC., FOR A COMPLETE INSTALLATION.	ND		
В.				
	BUILDING CONSTRUCTION AND WORK OF OTHER TRADES PERMIT. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING WORK AND ARRANGE WORK ACCORDINGLY.	;		
PART 2	2 PRODUCTS			
2.01	MATERIALS AND EQUIPMENT			
A.	HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.			
В. С.	SAME MANUFACTURER.		) IN DRAWINGS.	
0.		0171122		
PART 3 3.01	3 EXECUTION WORKMANSHIP			
Э.01 А.	INSTALL WORK USING PROCEDURES DEFINED IN NECA STANDARD	OF		
	INSTALLATION.			
	END OF SECTION			
	16111 CONDUIT			
PART 1				
PART 1 1.01	CONDUIT			
	CONDUIT I GENERAL WORK INCLUDED RIGID METAL CONDUIT AND FITTINGS. INTERMEDIATE METAL CONDUIT AND FITTINGS.			
1.01 A. B. C. D.	CONDUIT GENERAL WORK INCLUDED RIGID METAL CONDUIT AND FITTINGS. INTERMEDIATE METAL CONDUIT AND FITTINGS. ELECTRICAL METALLIC TUBING AND FITTINGS. FLEXIBLE METAL CONDUIT AND FITTINGS.			
1.01 A. B. C.	CONDUIT GENERAL WORK INCLUDED RIGID METAL CONDUIT AND FITTINGS. INTERMEDIATE METAL CONDUIT AND FITTINGS. ELECTRICAL METALLIC TUBING AND FITTINGS. FLEXIBLE METAL CONDUIT AND FITTINGS. LIQUIDTIGHT FLEXIBLE METAL CONDUIT AND FITTINGS.			
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1.01 A. B. C. D. E. PART 2	CONDUIT GENERAL WORK INCLUDED RIGID METAL CONDUIT AND FITTINGS. INTERMEDIATE METAL CONDUIT AND FITTINGS. ELECTRICAL METALLIC TUBING AND FITTINGS. FLEXIBLE METAL CONDUIT AND FITTINGS. LIQUIDTIGHT FLEXIBLE METAL CONDUIT AND FITTINGS. PRODUCTS MANUFACTURERS – CONDUIT			
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1.01 A. B. C. D. E. PART 2 2.01 A.	CONDUIT GENERAL WORK INCLUDED RIGID METAL CONDUIT AND FITTINGS. INTERMEDIATE METAL CONDUIT AND FITTINGS. ELECTRICAL METALLIC TUBING AND FITTINGS. FLEXIBLE METAL CONDUIT AND FITTINGS. LIQUIDTIGHT FLEXIBLE METAL CONDUIT AND FITTINGS. PRODUCTS MANUFACTURERS – CONDUIT STEELDUCT, PITTSBURGH, NATIONAL, REPUBLIC, TRIANGLE, ANACONDA. CONDUIT SUPPORTS	LE		
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PART 1	GENERAL
1.01	SECTION INCLUDES
	BUILDING WIRE AND CABLE. WIRING CONNECTORS AND CONNECTIONS.
	PROJECT CONDITIONS
А.	
B. Part 2	CONDUCTOR SIZES ARE BASED ON COPPER PRODUCTS
	MANUFACTURERS
	GENERAL ELECTRIC, ROME, HATFIELD, CRESE
2.02	TRIANGLE, ANACONDA.
2.02 A	WIRE AND CABLE DESCRIPTION: SINGLE CONDUCTOR INSULAT
	CONDUCTOR: COPPER. INSULATION VOLTAGE RATING: 600 VOLTS.
PART 3	EXECUTION
	WIRING METHODS
A. B. C.	USE WIRING METHODS INDICATED ON DRAWI ALL CONDUCTORS IN PLENUM AREA SHALL
A.	INSTALLATION USE SOLID CONDUCTOR FOR FEEDERS AND AND SMALLER, STRANDED CONDUCTOR 8 AW
В. С.	USE STRANDED CONDUCTORS FOR CONTROL USE CONDUCTOR NOT SMALLER THAN 12 A LIGHTING CIRCUITS.
D. E. F.	USE CONDUCTOR NOT SMALLER THAN 14 A USE SOLDERLESS PRESSURE CONNECTORS FOR COPPER CONDUCTOR SPLICES AND TAP
	END OF SECTION
PART	1 GENERAL
1.01	SECTION INCLUDES
	A. WALL AND CEILING OUTLET BOXES. B. PULL AND JUNCTION BOXES.
1.02	
	<ul> <li>VERIFY FIELD MEASUREMENTS ARE AS SI</li> <li>B. ELECTRICAL BOXES ARE SHOWN ON DRA LOCATIONS UNLESS DIMENSIONED. INST FOR BOX TO SERVE INTENDED PURPOSE</li> </ul>
PART	2 PRODUCTS
2.01	OUTLET BOXES
	<ul> <li>A. SHEET METAL OUTLET BOXES: ANSI/NEI STEEL.</li> <li>1. LUMINAIRE AND EQUIPMENT SUPPOR WEIGHT OF EQUIPMENT SUPPORTED,</li> </ul>
	FIXTURE STUDS WHERE REQUIRED. B. NONMETALLIC OUTLET BOXES: ANSI/NEM C. CAST BOXES: NEMA FB 1, TYPE FD CA GASKETED COVER BY BOX MANUFACTURE
2.02	PULL AND JUNCTION BOXES
	A. SHEET METAL BOXES: NEMA OS 1, GAL
PART	3 EXECUTION
3.01	
	<ul> <li>A. INSTALL ELECTRICAL BOXES AS SHOWN ( REQUIRED FOR SPLICES, TAPS, WIRE PU CONNECTIONS AND COMPLIANCE WITH RE</li> <li>B. INSTALL PULL BOXES AND JUNCTION BO CEILINGS AND IN UNFINISHED AREAS ON</li> </ul>
	OTHERWISE. C. INSTALL BOXES TO PRESERVE FIRE RESI
	<ul> <li>PARTITIONS AND OTHER ELEMENTS.</li> <li>D. ALIGN ADJACENT WALL-MOUNTED OUTLET THERMOSTATS, AND SIMILAR DEVICES WIT</li> <li>E. USE CAST FLOOR BOXES FOR INSTALLAT FORMED STEEL BOXES ARE ACCEPTABLE</li> </ul>
3.03	INTERFACE WITH OTHER PRODUCTS
	<ul> <li>A. LOCATE FLUSH MOUNTING BOX IN MASOI CUTTING OF MASONRY UNIT CORNER ON CUTTING TO ACHIEVE NEAT OPENING.</li> <li>B. COORDINATE MOUNTING HEIGHTS AND LO</li> </ul>
	MOUNTED ABOVE COUNTERS, BENCHES A
	END OF
PART 1.01	1 GENERAL SECTION INCLUDES
1.01	A. WALL SWITCHES.
	B. RECEPTACLES.

C. DEVICES PLATES AND COVERS. PART 2 PRODUCTS

2.01 WALL SWITCHES

- A. MANUFACTURERS: ARROW HART, GENERAL PASS & SEYMOUR, SLATER. B. DEVICE BODY: PLASTIC BODY WITH IVORY C. VOLTAGE RATING: 120–277 VOLTS, AC. D. CURRENT RATING: 20 AMPERES. DESCRIPTION: NEMA WD 1, SPECIFICATIO SWITCH AS FOLLOWS: 1. SINGLE POLE: ARROW HART 1221. 2. DOUBLE POLE: ARROW HART 1222. 3. THREE WAY: ARROW HART 1223.
  - (CON'T.)

16123 BUILDING WIRE AND CABLI	E	(CON'T.)	16141 WIRING DEVICES		MEPLATE ENGRAVING S
	2.02 RECEPTACLES A. MANUFACTURERS:			BE B. PA	OVIDE NAMEPLATES OF LOW. NELBOARDS: 3/4 INC
	ARROW HART, GE SEYMOUR, SLATEI	NERAL ELECTRIC, HUBBELL R.		C. INE	4 INCH, IDENTIFY VOLT DIVIDUAL CIRCUIT BREA PANELBOARDS, SWITCH
	C. CONVENIENCE AN	PLASTIC BODY WITH IVORY ID STRAIGHT-BLADE RECEP RADE, GROUNDING TYPE; L(	TACLES: NEMA WD 1,	1/ LO	8 INCH, IDENTIFY CIRC CATION.
S SHOWN ON DRAWINGS.		NEMA WD 5, SPECIFICATION			DIVIDUAL CIRCUIT BREA ARTERS: 1/4 INCH, IDI
R.		EPTACLE 20 A, 125 V: H S 5362, SLATER 5362-AG	IUBBELL 5362, ARROW HART		
	5362-1. 2. COMPUTER D	OUPLEX RECEPTACLE 20A,	125V ISOLATED		
SENT, GENERAL CABLE,		HUBBELL IG 5362, ARROW ATER IG5362—AG—OR, LEVIT			
	2.03 WALL PLATES			PART 1 GEI	NERAL RK INCLUDED
ATED WIRE.		LON, IVORY COLOR, SAME A	AS DEVICE		HTING AND APPLIANCE
THHN/THWN OR XHHW	PART 3 EXECUTION			1.02 SPA	ARE PARTS
IRCUITS LARGER THAN DR FEEDERS AND BRANCH XHHW MAY BE USED IF	3.01 EXAMINATION				YS: FURNISH TWO EAG
S AND BRANCH CIRCUITS	B. VERIFY WALL OPE	BOXES ARE INSTALLED AT F ENINGS ARE NEATLY CUT A		2.01 ACC	ODUCTS CEPTABLE MANUFACTUR
	COMPLETELY COV 3.02 PREPARATION	ERED BY WALL PLATES.		A. SQU	JARE D, GENERAL ELE
		ION RINGS TO BRING OUTL	ET BOXES FLUSH		STINGHOUSE, CUTLER I NELBOARDS
N ALL LOCATIONS. VINGS.		URFACE, IF REQUIRED.			HTING AND APPLIANCE
. BE PLENUM RATED.	3.03 INSTALLATION A. CONNECT WIRING	DEVICE GROUNDING TERMI	NAL TO BRANCH	DRA	EAKER TYPE AS INDICA AWINGS. PROVIDE CAE AMPS, CONCEALED HING
D BRANCH CIRCUITS 10 AWG	B. CONNECT WIRING	NT GROUNDING CONDUCTO		FIN B. ENG	ISH IN MANUFACTURER CLOSURE: TYPE 1.
AWG AND LARGER. DL CIRCUITS. AWG FOR POWER AND	SCREW TERMINAL C. USE JUMBO SIZE WALLS.	PLATES FOR OUTLETS INS	STALLED IN MASONRY	D. PRO	IIMUM SHORT CIRCUIT OVIDE PANELBOARDS W
AWG FOR CONTROL CIRCUITS.	D. INSTALL GALVANIZ JUNCTION BOXES	ZED STEEL PLATES ON OUT IN UNFINISHED AREAS AB	OVE ACCESSIBLE	E. MOI	DRAWINGS. PROVIDE LDED CASE CIRCUIT BF P CIRCUIT BREAKERS,
WITH INSULATING COVERS APE, 6 AWG AND LARGER. S WITH PLASTIC CAPS FOR	CEILINGS AND ON AREAS.	N SURFACE MOUNTED OUTL	ETS IN STOCKROOM	PR( CIR	OVIDE CIRCUIT BREAKE CUITS. PROVIDE UL (
8 AWG AND SMALLER.		END OF SECTION		PART 3 EXE	EAKERS WHERE SCHED
TION 16130		16190			TALLATION
BOXES		SUPPORTI	NG DEVICES		GHT: 6 FEET TO TOP NELBOARDS, UNLESS O
				B. PRO PAN	OVIDE TYPED CIRCUIT I NELBOARD. REVISE DII
				REC	QUIRED TO BALANCE P
	PART 1 GENERAL 1.01 WORK INCLUDED				
SHOWN ON DRAWINGS.	A. CONDUIT AND EQUIPMI				165 INTE
RAWINGS IN APPROXIMATE	<ul><li>B. FASTENING HARDWARE.</li><li>1.02 QUALITY ASSURANCE</li></ul>				
SE.	A. SUPPORT SYSTEMS SH				1 GENERAL
	AND CONDUIT, INCLUD PART 2 PRODUCTS	DING WIRING, WHICH THEY (	CARRY.	1.01 A	SECTION INCLUDES
EMA OS 1. GALVANIZED	2.01 MATERIAL			B	<ul> <li>EMERGENCY LIGHTIN</li> <li>EXIT SIGNS.</li> </ul>
RTING BOXES: RATED FOR D, INCLUDE 1\2 INCH MALE	A. SUPPORT CHANNEL: B. HARDWARE: CORROSI		STEEL.	D E F	LAMPS.
EMA OS 2.	PART 3 EXECUTION	JN RESISTANT.			2 PRODUCTS
CAST FERALLOY. PROVIDE RER. PROVIDE THREADED HUBS.	3.01 INSTALLATION			2.01	LUMINARIES
	A. FASTEN HANGER RODS BOXES TO BUILDING S		OUTLET AND JUNCTION	۵	A. THE LIGHTING FIXTU LETTER OR LETTER,
ALVANIZED STEEL.		OR HOLLOW WALL FASTENER OR GYPSUM BOARD PARTITIC OR PRESET INSERTS IN SC	ONS AND WALLS;	В	OF THE KEY INDICA FIXTURE MANUFACTI SCHEDULE ON DRA
	SELF-DRILLING ANCHC	DRS OR EXPANSION ANCHO TAL SCREWS IN SHEET MET	R ON CONCRETE	2.02	BALLAST
ON DRAWINGS, AND AS PULLING, EQUIPMENT	SCREWS IN WOOD COI C. DO NOT FASTEN SUPF MECHANICAL EQUIPMEN	PORTS TO METAL DECK, PIF	PING, DUCTWORK,	A	. MANUFACTURERS: 1. ADVANCE, UNIV
REGULATORY REQUIREMENTS. BOXES ABOVE ACCESSIBLE	D. DO NOT USE POWDER		RAL STEEL MEMBERS.		2. DESCRIPTION: BALLAST.
NLY, UNLESS NOTED SISTANCE RATING OF		FROM STRUCTURAL STEEL BOLTED TO PRESENT A NEA S WITH SPRING LOCK WASH	AT APPEARANCE. USE		<ol> <li>PROVIDE BALLA</li> <li>SOURCE QUALI CONSTRUCTION</li> </ol>
ET BOXES FOR SWITCHES,	G. INSTALL SURFACE-MOU MINIMUM OF FOUR AN	UNTED CABINETS AND PANE		3.03	LAMPS
/ITH EACH OTHER. ATIONS IN SLAB ON GRADE; .E FOR OTHER INSTALLATIONS.	H. BRIDGE STUDS TOP AI MOUNTED CABINETS AI	ND BOTTOM WITH CHANNEL ND PANELBOARDS IN STUD		A	. MANUFACTURERS: 1. SYLVANIA, GEN
		END OF SECTION			PHILLIPS/WEST 2. FLUORESCENT
ONRY WALL TO REQUIRE NLY. COORDINATE MASONRY				PART	FIXTURE SCHEE 3 EXECUTION
OCATIONS OF OUTLETS				3.01	EXAMINATION
AND BACKSPLASHES.			ELECTRICAL IDENTIFICATION	A	. EXAMINE EACH LUM SPECIFIED.
DF SECTION	PART 1 GENERAL			3.02	INSTALLATION
16141 WIRING DEVICES	1.01 WORK INCLUDED A. NAMEPLATES AND TAP	E LABELS.		А	EXPOSED GRID CEIL MEMBERS SPANNING
	B. WIRE AND CABLE MAR				LUMINARIES. INSTALL RECESSED
	PART 2 PRODUCTS 2.01 MATERIALS			C	<ul> <li>INSTALL RECESSED FIRESTOPPING MATE FIRE RATING.</li> </ul>
	A. NAMEPLATES: ENGRA	VED THREE-LAYER LAMINAT	ED PLASTIC, WHITE	D	. MAKE WIRING CONN WIRE WITH INSULAT
	LETTERS ON A BLACK B. TAPE LABELS: EMBOS LETTERS ON A BLACK	SSED ADHESIVE TAPE, WITH	I 3/16 INCH WHITE	3.03	WITHIN LUMINAIRE. ADJUSTING
	C. WIRE AND CABLE MAR TUBING TYPE.	CLOTH MARKERS, S	SPLIT SLEEVE OR		. AIM AND ADJUST LI
RAL ELECTRIC, HUBBELL, LEVITON,	PART 3 EXECUTION				DIRECTED.
ORY NYLON TOGGLE HANDLE.	3.01 INSTALLATION				
D.	WALL SWITCHES, RECE	ONLY FOR IDENTIFICATION EPTACLES AND CONTROL DE			
TION GRADE, AC TOGGLE	WHERE NOTED ON DR	בטמווייים.			
2.					
					,

SCHEDULE

OF MINIMUM LETTER HEIGHT AS SCHEDULED INCH, IDENTIFY EQUIPMENT DESIGNATION. OLTAGE RATING AND SOURCE.

EAKERS, SWITCHES, AND MOTOR STARTERS ICHBOARDS, AND MOTOR CONTROL CENTERS:

IRCUIT AND LOAD SERVED, INCLUDING REAKERS, ENCLOSED SWITCHES AND MOTOR

IDENTIFY LOAD SERVED. END OF SECTION

> 16470 PANELBOARDS

CE BRANCH CIRCUIT PANELBOARDS.

EACH TO OWNER.

URERS – PANELBOARDS

ELECTRIC, ITE/SIEMENS-ALLIS, HAMMER.

CE BRANCH CIRCUIT PANELBOARDS: CIRCUIT CATED ON THE PANELBOARD SCHEDULES ON CABINET FRONT WITH CONCEALED TRIM HINGE AND FLUSH LOCK ALL KEYED ALIKE. RER'S STANDARD GRAY ENAMEL.

FRATING: AS SHOWN ON DRAWINGS. WITH COPPER BUS RATINGS AS SCHEDULED DE GROUND BUS IN ALL PANELBOARDS. BREAKERS: BOLT-ON TYPE THERMAL MAGNETIC S, WITH COMMON TRIP HANDLE FOR ALL POLES. KERS UL LISTED AS TYPE SWD FOR LIGHTING \_ CLASS A GROUND FAULT INTERRUPTER CIRCUIT EDULED ON DRAWINGS.

OP SWITCH OR CIRCUIT BREAKER IN OTHERWISE NOTED. DIRECTORY FOR EACH BRANCH CIRCUIT DIRECTORY TO REFLECT CIRCUITING CHANGES PHASE LOADS.

END OF SECTION

6510 ITERIOR LUMINARIES

ES ARIES AND ACCESSORIES. ITING UNITS.

SSORIES.

XTURES ARE SHOWN ON THE DRAWINGS WITH A ER/NUMBER KEY. THE LETTER OR LETTER/NUMBER ICATES THE TYPE OF THE FIXTURE. CTURERS: AS SCHEDULED IN LIGHT FIXTURE RAWINGS.

NIVERSAL, GENERAL ELECTRIC, JEFFERSON. ANSI C82.1, HIGH POWER FACTOR TYPE LLAST SUITABLE FOR LAMPS SPECIFIED. ALITY CONTROL: CERTIFY BALLAST DESIGN AND ON BY CERTIFIED BALLAST MANUFACTURERS, INC.

ENERAL ELECTRIC, NORTH AMERICAN STINGHOUSE. I LAMPS SHALL BE OF TYPE SPECIFIED ON LIGHT HEDULE AND PLANS.

LUMINAIRE TO DETERMINE SUITABILITY FOR LAMPS

CEILINGS: FURNISH AND INSTALL AUXILIARY NING CEILING TEES TO SUPPORT SURFACE MOUNTED ED LUMINARIES TO PERMIT REMOVAL FROM BELOW. ED LUMINARIES USING ACCESSORIES AND ATERIALS TO MEET REGULATORY REQUIREMENTS FOR ONNECTIONS TO BRANCH CIRCUIT USING BUILDING LATION SUITABLE FOR TEMPERATURE CONDITIONS

LUMINARIES AS INDICATED ON DRAWINGS OR AS

END OF SECTION



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

PRIOR TO BID/START OF

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

 FX 479-631-1854 WITH ANY ISSUES.

#### OWNER

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ARCHITECT: LICENSE NO. MIKE KRESS 5715



SEAL

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

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

PERMIT SET

ISSUE DA	ATE:	05.30.24
REV	DESCRIPTION	DATE
PROJEC	T NO.	16014
DRAWN I	BY:	
CHK'D BY	<b>/</b> :	
SHEET T	ITLE	

E-700

	ABBREVIATIONS - MECHANICAL
ABV	
AC	
ACC	AIR COOLED CONDENSER AUTOMATIC CONTROL DAMPER
ACD	ACCESS DOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTICAL LINING
ARCH	ARCHITECTURAL
ATC	AUTOMATIC TEMPERATURE CONTROL
в	BOILER
BD	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	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
СН	CHILLER
СО	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
ECH	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
FC	FLEXIBLE CONNECTION (DUCT OR PIPE)
FCC	FIRE CONTROL CENTER
FCU	FAN COIL UNIT
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	GENERAL EXHAUST
HC	HEATING COIL
HTP	HEAT PUMP
HP	HORSE POWER
HR	HOUR
HRU	HEAT RECOVERY UNIT
HTW	HEATWHEEL
HV	HEATING AND VENTILATING UNIT
HW	HOT WATER
ΗХ	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
MBH	THOUSAND BTU PER HOUR
MCC	MOTOR CONTROL CENTER

HEC I	
MFS	MAXIMUM FUSE SIZE
MIN	MINIMUM
<b>A N</b>	MAXIMUM OVERCURRENT PROTECTION
	NORMALLY CLOSED
NFA	NET FREE AREA
NIC	NOT IN THIS CONTRACT
NK	NECK
	NORMALLY OPEN
	NOT TO SCALE OUTSIDE AIR INTAKE
-	OPPOSED BLADE DAMPER
	OUTSIDE DIMENSION
Р	PUMP
PD	PRESSURE DROP
	PRE-HEAT COIL
	PLATE HEAT EXCHANGER PRESSURE REDUCING VALVE
	POUNDS PER SQUARE INCH (GAUGE)
	POUNDS PER SQUARE INCH ABSOLUTE
	EXISTING TO BE RELOCATED
RA	RETURN AIR
RF	RETURN FAN
RH	RELATIVE HUMIDITY
	REVOLUTIONS PER MINUTE SUPPLY AIR
	SEE ARCHITECTURAL DRAWINGS
SD	SMOKE DAMPER
SF	SUPPLY FAN
SED	SEE ELECTRICAL DRAWINGS
	SENSIBLE
	SHEET METAL
	STAIL PRESSURIZATION
SQFT	SQUARE FEET
ST	SOUND TRAP
	SMOKE EXHAUST
	TRANSFER DUCT
	TOILET EXHAUST
ТҮР	TYPICAL
	UNIT HEATER
UH	
	UNLESS OTHERWISE NOTED
UON VAR	UNLESS OTHERWISE NOTED
UON VAR VAV	UNLESS OTHERWISE NOTED VARIABLE VARIABLE AIR VOLUME
UON VAR VAV VD	UNLESS OTHERWISE NOTED
UON VAR VAV VD VFD	UNLESS OTHERWISE NOTED VARIABLE VARIABLE AIR VOLUME VOLUME DAMPER
UON VAR VAV VD VFD W/	UNLESS OTHERWISE NOTED VARIABLE VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE
UON VAR VAV VD VFD W/ WB	UNLESS OTHERWISE NOTED VARIABLE VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE WITH
UON VAR VAV VD VFD W/ WB WG	UNLESS OTHERWISE NOTED VARIABLE VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE WITH WET BULB
UON VAR VAV VD VFD W/ WB WG WMS	UNLESS OTHERWISE NOTED VARIABLE VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE WITH WET BULB WATER GAUGE
UON VAR VAV VD VFD W/ WB WG WMS VO-SIZE	UNLESS OTHERWISE NOTED VARIABLE VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE WITH WET BULB WATER GAUGE WIRE MESH SCREEN
UON VAR VAV VD VFD W/ WB WG WMS WMS VO-SIZE (X)	UNLESS OTHERWISE NOTED VARIABLE VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE WITH WET BULB WATER GAUGE WIRE MESH SCREEN WALL OPENING - [SIZE]
UON VAR VAV VD VFD W/ WB WG WMS WMS VO-SIZE (X)	UNLESS OTHERWISE NOTED VARIABLE VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE WITH WET BULB WATER GAUGE WIRE MESH SCREEN WALL OPENING - [SIZE] EXISTING TO BE DEMOLISHED
UON VAR VAV VD VFD W/ WB WG WMS /O-SIZE (X) (300)	UNLESS OTHERWISE NOTED VARIABLE VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE WITH WET BULB WATER GAUGE WIRE MESH SCREEN WALL OPENING - [SIZE] EXISTING TO BE DEMOLISHED CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE
UON VAR VAV VD VFD W/ WB WG WMS (O-SIZE (X) (300)	UNLESS OTHERWISE NOTED VARIABLE VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE WITH WET BULB WATER GAUGE WIRE MESH SCREEN WALL OPENING - [SIZE] EXISTING TO BE DEMOLISHED CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE PIPING LEGEND
UON VAR VAV VD VFD W/ WB WG WMS /O-SIZE (X) (300)	UNLESS OTHERWISE NOTED VARIABLE VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE WITH WET BULB WATER GAUGE WIRE MESH SCREEN WALL OPENING - [SIZE] EXISTING TO BE DEMOLISHED CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE PIPING LEGEND CONDENSER WATER SUPPLY
UON VAR VAV VD VFD W/ WB WG WMS VO-SIZE (X) (300)	UNLESS OTHERWISE NOTED VARIABLE VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE WITH WET BULB WATER GAUGE WIRE MESH SCREEN WALL OPENING - [SIZE] EXISTING TO BE DEMOLISHED CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE PIPING LEGEND CONDENSER WATER SUPPLY CONDENSER WATER RETURN
UON VAR VAV VD VFD W/ WB WG WMS /O-SIZE (X) (300) (300) CWS CWS CWS CWS CWS CWS CWS CWS CWS CWS	UNLESS OTHERWISE NOTED VARIABLE VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE WITH WET BULB WATER GAUGE WIRE MESH SCREEN WALL OPENING - [SIZE] EXISTING TO BE DEMOLISHED CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE  PIPING LEGEND  CONDENSER WATER SUPPLY CONDENSER WATER RETURN CHILLED WATER SUPPLY
UON VAR VAV VD VFD W/ WB WG WMS /O-SIZE (X) (300) CWS CWS CWS CWS CWS CWS CWS CWS CWS CWS	UNLESS OTHERWISE NOTED VARIABLE VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE WITH WET BULB WATER GAUGE WIRE MESH SCREEN WALL OPENING - [SIZE] EXISTING TO BE DEMOLISHED CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE PIPING LEGEND  CONDENSER WATER RETURN CHILLED WATER SUPPLY CHILLED WATER RETURN CHILLED WATER RETURN
JON VAR VAV VD VFD W/ WB WG VMS D-SIZE (X) 300) CHWS CHWS CHWS CHWR CHWR CHWR CHWR CHWR	UNLESS OTHERWISE NOTED VARIABLE VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE WITH WET BULB WATER GAUGE WIRE MESH SCREEN WALL OPENING - [SIZE] EXISTING TO BE DEMOLISHED CUBIC FEET OR AIR PER MINUTE OR GALLONS PER MINUTE PIPING LEGEND   CONDENSER WATER SUPPLY CONDENSER WATER RETURN CHILLED WATER RETURN HOT WATER SUPPLY HOT WATER SUPPLY

### MECHANICAL LEGEND AND ABBREVIATIONS

Р	PIPING LEGEND (CONTINUED) PIPING LEGEND (CONTINUED)		DUCTWORK LEGEND (CONTINUED)			CONTROLS LEGEND				
L للل ا	REFRIGERANT SUCTION PIPING		DIRT POCKET REFRIGERANT EXPANSION VALVE					<b>→</b>	TOTALIZING BTU METER	
<u>т</u> Щ.	REFRIGERANT-SAFETY VALVE RELIEF LINE		SIGHT GLASS VALVE IN VERTICAL		┝─ <u></u> ]]→ ┠═ <del>╸</del> ┠	SLOPING DROP IN DUCTWORK			EMERGENCY BREAK GLASS	SWITCH FOR EQUIPMENT
<u> </u>	HOT GAS PIPING	<u>,                                    </u>	MANUAL AIR VENT		18x12 ~				SHUT-DOWN	
		<u>, ↑, ,</u> , <u>↓</u> ,	AUTOMATIC AIR VENT		18x12	DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE			FLOW MEASURING STATION	
┥┥	ARROW INDICATES DIRECTION OF FLOW	∽ <del>urs</del> ⊊⊊,	PIPE SENSOR WELL (THERMOMETER) PRESSURE GAUGE AND COCK		۶ <u>- ۱8</u> ۲∎ ۲₿ ₽	ROUND DUCT DIAMETER SIZE (CLEAR			FLOW SWITCH	
<u> </u>		, ¢	PRESSURE GAUGE WITH LOOP			DIMENSION)		 ∭#	CARBON MONOXIDE SENSO	R WITH ZONE DESIGNATION
	DRAIN LINE	, <u> </u>	TEMPERATURE-PRESSURE TEST FITTI	NG		OVAL DUCT SIZE		© <sub>#</sub>	CARBON DIOXIDE SENSOR \	VITH ZONE DESIGNATION
	PIPE ANCHOR	, , 4_	CENTER LINE					$\overline{\mathbb{T}}_{\#}$	TEMPERATURE SENSOR/TH OR EQUIPMENT DESIGNATIO	
=	PIPE GUIDE	<del>~~~~~</del>	HEAT TRACED PIPING			SIDE, TOP OR BOTTOM DUCT ACCESS DOO	R	(H)#	HUMIDISTAT/HUMIDITY SENS HUMIDIFIER DESIGNATION	SOR WITH
<u> </u>			PIPE SLEEVE BEAM PENETRATION		\$ <u>===</u> \$			₩#	COMBINATION TEMPERATUR	RE/HUMIDITY SENSOR
」 ■	EXPANSION COMPENSATOR		PIPE GUIDE			ACOUSTIC LINING IN DUCT (DUCT SIZE NOTED INDICATES INSIDE DIMENSIONS)		6	DUCT SMOKE DETECTOR SU TRADE, INSTALLED BY MECH	
		<u> </u>	PIPE CAP			RECTANGULAR OR SQUARE TO ROUND OR		• •	STATIC PRESSURE SENSOR	
		<b>└──</b>	PIPE BLIND FLANGE			OVAL TRANSITION		R <sub>#</sub>	REFRIGERANT SENSOR WIT	H DESIGNATION
5	EXPANSION LOOP (SIZE AxB)		DUCTWORK LEGEND			FLEXIBLE CONNECTION				
						DUCT END/CAP				
₿╏	FLEXIBLE BALL JOINT EXPANSION COMPENSATOR	16x6 / ) / ********************************	DUCT SPLIT WITH SPLIT SIZE			FLEXIBLE DUCT			MISCELLANE	OUS
	CONCENTRIC REDUCER (INCREASER)								DIFFERENTIAL PRESSURE SE	NSOR
Ţ Ţ		5			│ <del>└ ॑</del> │ ⊢ <sub>□</sub> → │	DUCT COIL WITH ACCESS DOOR		┍╴╵╴╶╵	DIFFERENTIAL PRESSURE SV	VITCH
Ţ Ţ	ECCENTRIC REDUCER (INCREASER)		RADIUS ELBOW					· · ·	NEW WORK	
	UNION					VOLUME DAMPER IN DUCT		\$\$	EXISTING WORK EXISTING WORK TO BE REMO	WED
₿Ѽ	CAPPED PIPE WITH SHUT-OFF VALVE		ELBOW WITH TURNING VANES						POINT OF NEW CONNECTION	
+++	"Y" TYPE STRAINER WITH HOSE END					AUTOMATIC CONTROL DAMPER		<del>•</del>	OVAL	
	BLOW OFF VALVE	↓ <del>〕</del> 〕	RECTANGULAR BRANCH TAKEOFF					ø	DIAMETER	
∰Ţ	"Y" TYPE STRAINER		WITH BALANCING DAMPER			FUSIBLE LINK FIRE DAMPER WITH DUCT ACCESS DOOR		U HW	UNDERCUT DOOR	RISER SERVICE
Ĩ Ţ	BASKET TYPE STRAINER	\$ <b></b>	RECTANGULAR SUPPLY DUCT UP			SMOKE DAMPER WITH DUCT ACCESS DOOF	2		RISER DESIGNATION	
	DUPLEX STRAINER					COMBINATION FIRE AND SMOKE DAMPER WITH DUCT ACCESS DOOR			SECTION DESIGNATION	SECTION NUMBER DRAWING NUMBER
∰Ţ Į	ELBOW TURNED UP		RECTANGULAR SUPPLY DUCT DOWN			BACK DRAFT DAMPER WITH DUCT ACCESS		1 M2.1	DETAIL DESIGNATION	DETAIL NUMBER DRAWING NUMBER
Ĩ Ĩ IJ J	ELBOW TURNED DOWN	\$ <b>\</b>	RECTANGULAR RETURN OR EXHAUST			DOOR			EQUIPMENT DESIGNATION	EQUIPMENT TYPE EQUIPMENT FLOOR AND NUMBER
	BOTTOM PIPE CONNECTION		DUCT UP					3-24	3-24 TERMINAL DESIGNATION	
Ţ Ţ	TOP PIPE CONNECTION		RECTANGULAR RETURN OR EXHAUST DUCT			LINEAR DIFFUSER WITH PLENUM	3-WAY BLOW	CD-1,12x12	AIR OUTLET/INLET	FLOOR OR LEVEL     TYPE     CD-1,12x12     NECK OR
₩	SLOPED CHANGE IN PIPE ELEVATION		DOWN			CEILING DIFFUSER	4-WAY BLOW	(550)	DEVICE DESIGNATION	(550) FACE SIZE CFM
8⊢→	FLEXIBLE CONNECTION		ROUND DUCT, UP			CEILING DIFFUSER WITH FLEXIBLE DUCT	1		LINEAR DIFFUSER	TYPE LENGTH & SLOT SIZE
₿҄҄҄҄Ҁ	SHUT-OFF VALVE					CONNECTION RETURN/EXHAUST REGISTER OR GRILLE		LD-A,48x1,8 <b>Ø</b> (300)	DEVICE DESIGNATION	D-A,48x1,8 <b>Ø</b> PLENUM 300) INLET SIZE CFM
∰Ţ ¦	AUTOMATIC FLOW CONTROL VALVE		ROUND DUCT, DOWN		<u> </u>	RETURN/EXHAUST REGISTER OR GRILLE W	/ітн	$\diamond$	KEYNOTE	
∰Ĵ [[	CALIBRATED BALANCE VALVE					FLEXIBLE DUCT CONNECTION ROUND CEILING DIFFUSER WITH FLEXIBLE DUCT CONNECTION		-	MECHANICAL DI	
₿Ĵ¶	GLOBE VALVE		BEAM			DUCT CONNECTION		SHEET NUMBER		
¶ ¶ 1	CHECK VALVE		PENETRATION						CHANICAL LEGEND & ABB	
۲. ۲		<u>}-[-</u> ,	SLOPING RISE IN DUCTWORK			FLOOR SWIRL DIFFUSER		M-100 ME	CHANICAL FLOOR PLAN &	SCHEDULES
	AUTOMATIC THREE-WAY CONTROL VALVE					FIRE RATED ENCASED DUCT				
Ū (	AUTOMATIC TWO-WAY CONTROL VALVE					PARTITION OR WALL (SIZE) WALL OPENING ABOVE HUNG CEILING (SIZE	E)			
₿ \$	RELIEF VALVE				$\begin{array}{c} \uparrow \\ \downarrow \\ \downarrow \\ \downarrow \\ (200) \end{array} \xrightarrow{\text{SR-A}, 12x8} \xrightarrow{\bullet}$	SUPPLY REGISTER WITH AIR OUTLET DEVIC	CE			
	ANGLE RELIEF VALVE				$\begin{array}{c} & \\ & \\ & \\ \hline \\ & \\ \hline \\ & \\ & \\ & \\ & \\$	DESIGNATION				
٦ T	PRESSURE REDUCING VALVE (PRV)				€R-C,12x8 (200)	WITH AIR INLET DEVICE DESIGNATION	-			
₿Ĵ	LUBRICATED PLUG VALVE				ACCESS					
₿ <sup>`</sup> \$	LOCKSHIELD GLOBE VALVE					TERMINAL UNIT WITH/WITHOUT HEATING CO	JIL			
₿Ĵ	SOLENOID VALVE				ACCESS	FAN POWERED TERMINAL UNIT WITH/WITHOUT HEATING COIL				
	BUTTERFLY VALVE (MANUAL)									
	BUTTERFLY VALVE (MOTORIZED)	APPLICABLE CODES				JES				
<u></u>										
	BALL VALVE			<u>CODES:</u>						
	PUMP					ECHANICAL CODE IRISDICTION REQUIREME	INTS			

	CONTROLS LEGEND
ل ل	TOTALIZING BTU METER
	EMERGENCY BREAK GLASS SWITCH FOR EQUIPMENT SHUT-DOWN
ų ~	FLOW MEASURING STATION
μ μ	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

	MECHANICAL DRAWING LIST
R	SHEET NAME
	MECHANICAL LEGEND & ABBREVIATIONS
	MECHANICAL FLOOR PLAN & SCHEDULES
	MECHANICAL SPECIFICATIONS





 PH 479.631.1712
 EQUIPMENT IN MECHANICAL ROOM

 FX 479.631.1854
 CLEARANCES ARE AVAILABLE.

 WITH ANY ISSUES.

#### 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: LICENSE NO. MIKE KRESS 5715



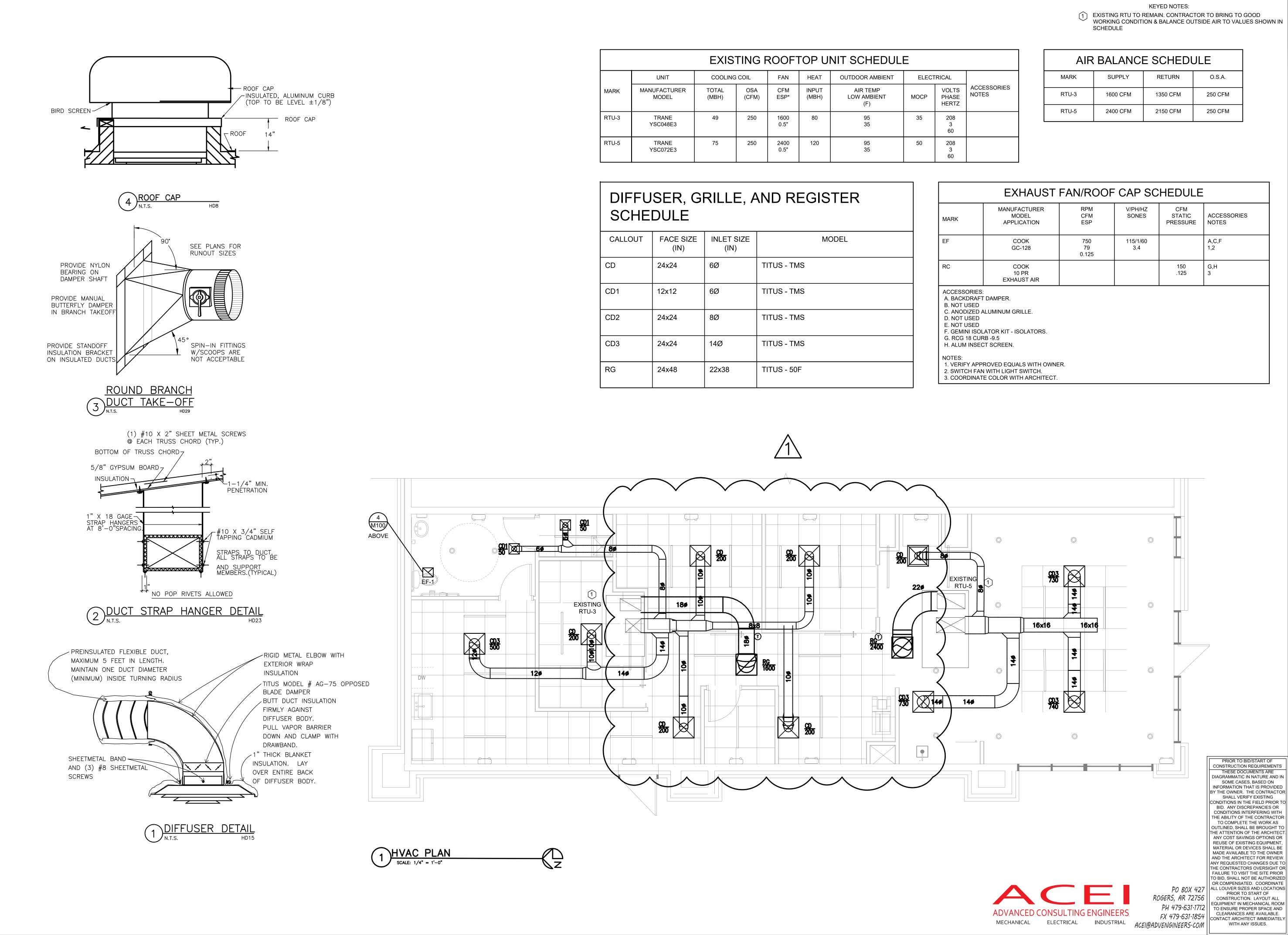
SEAL

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

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

### PERMIT SET

ISSUE D	AIE:	05.30.24			
REV	DESCRIPTION	DATE			
		40044			
PROJEC		16014			
DRAWN					
CHK'D B					
SHEET T	IILE				
	M-000				



	EXISTING ROOFTOP UNIT SCHEDULE										AIR	BALANC	E SCHEDI	JLE
	UNIT	COOLING	COIL	FAN	HEAT	OUTDOOR AMBIENT	ELECT	FRICAL			MARK	SUPPLY	RETURN	O.S.A.
MARK	MANUFACTURER MODEL	TOTAL (MBH)	OSA (CFM)	CFM ESP*	INPUT (MBH)	AIR TEMP LOW AMBIENT (F)	МОСР	VOLTS PHASE HERTZ	ACCESSORIES NOTES		RTU-3	1600 CFM	1350 CFM	250 CFM
RTU-3	TRANE	49	250	1600	80	95	35	208			RTU-5	2400 CFM	2150 CFM	250 CFM
1110-0	YSC048E3		200	0.5"	00	35		3 60		L		I		
RTU-5	TRANE YSC072E3	75	250	2400 0.5"	120	95 35	50	208 3 60						

CALLOUT	FACE SIZE (IN)	INLET SIZE (IN)	MODEL
CD	24x24	6Ø	TITUS - TMS
CD1	12x12	6Ø	TITUS - TMS
CD2	24x24	8Ø	TITUS - TMS
CD3	24x24	14Ø	TITUS - TMS
RG	24x48	22x38	TITUS - 50F

MANUFACTURER MODEL APPLICATION	RPM CFM ESP	V/PH/HZ SONES	CFM STATIC PRESSURE	ACCESSORIES 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

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ARCHITECT:       MKE KRESS         LICENSE NO.       5715
ACADEMY BANK BRANCH: 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         REV 1       08-19-2024
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 EQUAL 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:
  - PROVIDE LABOR AND MATERIALS TO INSUL ITEMS AS INDICATED ON THE DRAWINGS
- 1.02 NFPA 90A:

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.

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
  - CONTENT OF LESS THAN 50 PPM WHEN TESTED ACCORDING TO ASTM C 871
  - ACCORDING TO ASTM C 795
  - D. FOAM INSULATION SHALL NOT USE CFC OR HCFC BLOWING AGENTS IN THE MANUFACTURING PROCESS
  - RIGID, HERMETICALLY SEALED CELLS.
  - F. MINERAL-FIBER BLANKET INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 553 TYPE II AND ASTM C 1290, TYPE I.

3.0 EXECUTION 3.01 DUCTWORK:

- SENSITIVE TAPE.

#### SECTION 15800

AIR DISTRIBUTION EQUIPMENT

- 1.0 GENERAL
- 1.01 SCOPE:

- 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:

NUMBERS INDICATED ARE EXAMPLES OF PRODUCTS TO BE PROVIDED.

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.

JLATE	EQUIPMEN	T, PIPING	AND	MISCELLANEOUS	
AND	SPECIFIED	HEREIN.			

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

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

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 SPECIFIED HEREIN FOR A COMPLETE AND OPERABLE SYSTEM.

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

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

- 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:

3.0 EXECUTION

3.01 GENERAL:

A. 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.

#### 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:
- 1. PROVIDED WHERE AIR HANDLERS, FANS, AND BLOWERS CONNECT TO DUCTWORK WHEN NOT INTERNALLY ISOLATED.
- 2. AT LEAST 4 INCHES LONG.
- 3. CONNECTED ON EACH SIDE TO METAL (METAL DUCTWORK, AIR HANDLING APPARATUS, OR HEAVY GAUGE STEEL SLEEVES).

#### C. LOW PRESSURE METAL TURNING VANES:

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.

#### D. MANUAL VOLUME DAMPERS:

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

- 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.

#### 3.0 EXECUTION

#### 3.01 GENERAL:

- 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.



ROGERS, AR 72756

CONDITIONS IN THE FIELD PRIOR BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTO TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT THE ATTENTION OF THE ARCHITE 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 1 THE CONTRACTORS OVERSIGHT OI FAILURE TO VISIT THE SITE PRIOR TO BID SHALL NOT BE AUTHORIZE OR COMPENSATED. COORDINATE PO BOX 427 ALL LOUVER SIZES AND LOCATION PRIOR TO START OF CONSTRUCTION. LAYOUT ALL EQUIPMENT IN MECHANICAL ROOM PH 479.631.1712 || TO ENSURE PROPER SPACE AND FX 479.631.1854 CLEARANCES ARE AVAILADEL. WITH ANY ISSUES.

PRIOR TO BID/START OF

CONSTRUCTION REQUIREMENTS

THESE DOCUMENTS ARE

SOME CASES, BASED ON INFORMATION THAT IS PROVIDE

DIAGRAMMATIC IN NATURE AND

BY THE OWNER. THE CONTRACTO

SHALL VERIEY EXISTING

#### 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

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ARCHITECT ICENSE NO. MIKE KRESS

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SEA

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

2070 NW Lowenstein Dr Suite A

LEE'S SUMMIT, MO 64081

#### PERMIT SET

ISSUE	DATE:	05.30.24
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### GENERAL NOTES

			GENERAL NOTE
	NERAL NOTES	7.	ADJUSTMENTS: ALL EQUIPMENT, MOTORS, FANS, GAS
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		BURNERS, IGNITION DEVICES, DRIVES, ETC. SHALL BE ADJUSTED AND BALANCED TO OPERATE AT SPECIFIED RATINGS AS REQUIRED FOR THIS PROJECT SITE AND ACCOUNTING FOR ELEVATION ABOVE SEA LEVEL.
2.	(VERIFY). ELECTRICAL CHARACTERISTICS: REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS (VOLTAGES, ETC. OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED.	8.	APPROVALS: MECHANICAL AND PLUMBING EQUIPMENT SHALL BE APPROVED FOR INSTALLATION IN THE PROJECT LOCATION AND SHALL HAVE ALL CERTIFICATIONS AND RATINGS TO MEET ALL ENERGY, POLLUTION, ENVIRONMENTAL, SEISMIC, ETC. CODES AND REGULATIONS. THE CONTRACTOR SHALL COORDINATE WITH HIS MANUFACTURE SUPPLIERS AND SHALL
3.	CODES: COMPLETE INSTALLATION OF THE PLUMBING SYSTEM SHALL BE PER THE APPLICABLE BUILDING, MECHANICAL, ENERGY, PLUMBING, FIRE, AND HEALTH CODES AND	9.	INCLUDE ALL COSTS REQUIRED TO MEET THESE REQUIREMENTS IN HIS BID. FIRE PROTECTION: CONTRACTOR SHALL PROVIDE A FULLY
4.	REGULATIONS AS ADOPTED BY THE LOCAL AHJ. 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		DESIGNED FIRE PROTECTION SPRINKLER SYSTEM IN COMPLIANCE WITH NFPA AND LOCAL CODES. PROVIDE DESIGN, PERMITS, MATERIALS, INSTALLATION, TESTING AND ALL OTHER FOR A FULLY OPERATIONAL SYSTEM. LOCATION OF ALL PIPING TO BE COORDINATED WITH OTHER TRADES.
	<ul> <li>STRUCTURAL.</li> <li>B. COORDINATE FINAL LOCATION AND ROUTING WITH CEILING, LIGHTS, WALLS, FIRE SPRINKLER PIPING, AND OTHER TRADES WORK.</li> <li>C. INCLUDE ADDITIONAL OFFSETS, ELBOWS, ROUTING, EQUIVALENT DUCT SIZING EXCHANGE, RELOCATING, ETC. AS REQUIRED FOR A COMPLETE OPERATING MECHANICAL SYSTEM.</li> <li>D. PROVIDE SHOP DRAWINGS AT NO ADDITIONAL COST TO THE OWNER.</li> </ul>		MBING NOTES CONNECTIONS: PROVIDE PLUMBING FIXTURE CONNECTIONS TO BUILDING WASTE, VENT, COLD WATER, AND HOT WATER SYSTEM IN ACCORDANCE WITH DRAWINGS, MANUFACTURER'S RECOMMENDATIONS, AND LOCAL CODES. CONNECT TO EACH FIXTURE, EQUIPMENT, ETC. WITH ALL ACCESSORIES, VALVES, VACUUM BREAKERS, REGULATORS, UNIONS, ETC. AS REQUIRED AND AS RECOMMENDED BY THE MANUFACTURERS. REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE ON
5.	PLUMBING CONTRACTOR SHALL LOCATE AND COORDINATE EXACT LOCATION OF ALL PLUMBING EQUIPMENT WITHIN THE STRUCTURE.	2.	PLANS. HOT AND COLD: WATER PIPING CONNECTION TO EACH FIXTURE SHALL BE COLD WATER ON THE RIGHT HAND SIDE
6.	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 WATER ON THE LEFT HAND SIDE. HOT WATER: NON-CIRCULATING HOT WATER PIPE SHALL
7.	DOOR LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO BIDDING. ROOF PENETRATIONS: SEE ARCHITECTURAL DRAWINGS FOR	4.	NOT EXCEED 10' UNLESS OTHERWISE SHOWN ON DRAWINGS. VENT STACKS: COORDINATE VENT STACK WITH HVAC EQUIPMENT TO MAINTAIN MINIMUM 10' CLEARANCE FROM
8.	ROOF CAP, ROOF CURB, ROOF DRAIN, AND VTR DETAILS. EXPOSED PIPING: PROVIDE CHROME PLATING FOR EXPOSED	5.	OUTSIDE AIR INTAKES. CLEANOUTS: PROVIDE CLEANOUTS PER CURRENT CODE AND AS REQUIRED BY LOCAL JURISDICTIONS. CLEANOUTS SHALL
9.	PIPING IN FINISHED ROOMS. PENETRATIONS: PROVIDE ESCUTCHEON PLATES FOR EXPOSED PIPING PENETRATIONS AND SHEET METAL FLASHING FOR EXPOSED DUCTWORK PENETRATIONS.		BE LOCATED IN WALLS/FLOORS WHERE THEY ARE NOT HIGHLY VISIBLE. FLOOR CLEANOUTS IN CARPETED AREAS TO BE FITTED WITH CARPET INSERTS. LOCATIONS SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL. NOTE: NOT ALL
10.	. SHAFT AND PLENUM CONNECTIONS: SEAL CONNECTIONS TO AIR SHAFTS AIRTIGHT. PROVIDE AIRTIGHT SEAL AROUND PENETRATIONS IN AIR PLENUMS.	6.	CLEANOUTS ARE SHOWN ON THE PLUMBING DRAWINGS. SUDS RELIEF: PROVIDE SUDS RELIEF IN ACCORDANCE WITH CURRENT CPC.
11.	LIGHT FIXTURE CLEARANCE: COORDINATE LOCATIONS OF MECHANICAL WORK TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND REPLACEMENT.	7.	SHUT-OFFS: PROVIDE 1/4 TURN BALL VALVE ANGLE STOP SHUT-OFF VALVES AND BRAIDED STAINLESS STEEL FLEX CONNECTORS AT HOT AND COLD WATER SUPPLY TO EACH
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.	FIXTURE. EXCEPTION: PROVIDE SCREWDRIVER STOPS AT BATH/SHOWERS. TUB SPOUTS SHALL BE THREADED (NO PUSH-ON FITTINGS).
13.	. MOTORS: COMPLY WITH ENERGY CODE ENFORCED BY AHJ FOR MINIMUM EFFICIENCIES UNDER FULL LOAD.	9.	TRAP ARMS: PROVIDE TRAP ARMS SUCH THAT THE MAXIMUM LENGTH WILL NOT EXCEED CODE REQUIREMENTS.
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 INSULATION: AT PLUMBING PIPING EXPOSED UNDER LAVATORIES, INSULATE THE EXPOSED PIPING AND TRAPS WITH PRODUCT SPECIFICALLY DESIGNED FOR THIS APPLICATION MEETING ADA REQUIREMENTS. PROVIDE HANDI-LAV GUARD OR EQUIVALENT. OFFSET P-TRAPS TO CLEAR WHEELCHAIR ACCESS.
<u>C0</u>	ORDINATION REQUIREMENTS	11.	GAS EQUIPMENT: GAS EQUIPMENT SHALL BE INSTALLED PER EQUIPMENT LISTINGS, LOCAL CODES, AND NFPA.
1.	IRRIGATION: COORDINATE WITH IRRIGATION CONTRACTOR FOR THEIR WATER SUPPLY REQUIREMENTS AND LOCATIONS.	12.	GAS CONNECTIONS: INSTALL FLEXIBLE QUICK DISCONNECT ASSEMBLIES FOR ALL GAS FIRED KITCHEN EQUIPMENT PER
2.	GAS: CONTRACTOR/GAS COMPANY SHALL FINALIZE GAS METER AND GAS SERVICE LOCATIONS.	13.	LOCAL JURISDICTIONS. WATER HAMMER ARRESTERS: PROVIDE AT THE END OF HOT
3.	CIVIL DRAWINGS FOR UTILITY CONNECTIONS AND EXTENSIONS.		AND COLD WATER LINES SERVING TWO OR MORE FIXTURES; SIZE IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE (PDI) REQUIREMENTS. WATER HAMMER ARRESTORS ARE REQUIRED FOR QUICK CLOSING VALVES, SUCH AS
4.	FOR ROOF DRAIN AND OVERFLOWS, SCUPPER DRAINS, AND CONDENSATE DRAINS.	14.	LAUNDRY WASHERS, FLUSH VALVES (PUBLIC TOILETS), ETC. TRAP PRIMERS: PROVIDE TRAP PRIMERS AND PIPING FOR
5.	PLUMBING FIXTURES: COORDINATE WITH ARCHITECTURAL AND OTHER TRADES EXACT LOCATION OF ALL PLUMBING FIXTURES.		FLOOR DRAINS AND FLOOR SINKS. ARRANGE PIPING TO ACHIEVE EQUAL FLOW TO EACH DRAIN AND FLOOR SINK FOR TRAP PRIMERS SERVING MULTIPLE DRAINS AND FLOOR SINKS.
6.	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: ALL EXPOSED P-TRAPS SHALL BE CHROME-PLATED BRASS.
	APPLICABLE CODES         THESE DRAWINGS ARE BASED ON THE FOLLOWIN         • 2018 INTERNATIONAL BUILDING CODE (IBC)         2018 INTERNATIONAL MECHANICAL CODE (I         2018 INTERNATIONAL ENERGY CONSERVATIONAL         • 2018 INTERNATIONAL PLUMBING CODE	MC)	

### ABBREVIATIONS

			DIVENTIONS
16.	PROVIDE BALL VALVES. GATE VALVES SHALL NOT BE USED. NO EXCEPTIONS.	ACU AFF AHJ	AIR CONDITIONING UNIT ABOVE FINISHED FLOOR AUTHORITY HAVING
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.	BHP BOH BTUH	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	CONT CONTR COTG CW	CONTINUE, CONTROL CONTRACTOR CLEANOUTS TO GRADE COLD WATER
22.	DISSIMILAR PIPE. REFRIGERANT PIPING: PROVIDE SIZING & INSTALLATION IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.	D DB DIM DN	DIAMETER 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
NSU	ILATION/LINING NOTES	F	FAHRENHEIT FLOOR CLEANOUTS
1.	ENERGY CODE: AS A MINIMUM, COMPLY WITH THICKNESSES AND TYPES LISTED IN ENERGY CODE ENFORCED BY AHJ.	FCU FD FLR FPM FPS	FAN COIL UNIT FLOOR DRAIN FLOOR FEET PER MINUTE FEET PER SECOND
		FS GAL GPG GPM GWB HB HD HEDV HORIZ HP HPCW	FLOOR SINK GAS GALLONS GRAINS PER GALLON GALLONS PER MINUTE GYPSUM WALLBOARD HOSE BIBB HEAD HOSE END DRAIN VALVE HORIZONTAL HORSEPOWER HIGH PRESSURE COLD WATER
	PIPE MATERIALS	HVAC HW HWC	HEATING, VENTILATING, AND AIR CONDITIONING HOT WATER HOT WATER RE-CIRCULATION
Ā	APPROVED PLUMBING MATERIAL: all sanitary system materials shall be listed by an approved listing agency.	HX ID IE	HEAT EXCHANGER INDIRECT DRAIN, INSIDE DIAMETER INVERT ELEVATION
1	I. UNDERGROUND SERVICE ENTRANCE PIPING: COPPER, TYPE K. PLASTIC WRAP UNDERGROUND WATER SUPPLY PIPING TO PREVENT CORROSION.	IN KS KW L	INCH KITCHEN SINK KILOWATT LONG, LENGTH
2	2. ABOVEGROUND WATER DISTRIBUTION PIPING IN RESTROOMS: PEX.	LAV LB	LAVATORY POUND
	3. STORM, VENT AND GRAVITY WASTE: NO-HUB CAST IRON	MBH MECH	THOUSAND BTU PER HOUR MECHANICAL
() () () () () ()	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.	MCA MOCP MPG MTD OD OPNG P PD	MIN. CIRCUIT AMPACITY MAX. OVER CURRENT PROTECTION MEDIUM PRESSURE GAS MOUNTED OUTSIDE DIMENSION/DIAMETER OVERFLOW DRAIN/DECK DRAIN OPENING PUMP PRESSURE DROP, PUMPED
E F E F	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	DRAIN POINT OF CONNECTION PRESSURE REDUCING VALVE PRESSURE RELIEF VALVE PUMPED STORM DRAINAGE POUNDS PER SQUARE INCH GAUGE PUMPED SANITARY WASTE
N A	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.	RD REF PRBP RPM SCH	ROOF DRAIN REFERENCE REDUCED PRESSURE BACKFLOW PREVENTER REVOLUTIONS PER MINUTE SCHEDULE
E	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 SS	STORM OVERFLOW STATIC PRESSURE SUDS RELIEF STAINLESS STEEL,
2	4. CONDENSATE DRAIN PIPING: CPVC OR COPPER TYPE M.	SQ	SANITARY SEWER SQUARE
	5. TEMPERATURE AND/OR PRESSURE RELIEF VALVE DISCHARGE PIPING: COPPER TYPE M	TYP UH UON	TYPICAL UNIT HEATER UNLESS OTHERWISE NOTED
e	5. GAS PIPING: STEEL PIPE, ASTM A 53; TYPE E OR S;GRADE B; SCHEDULE 40.	V VTR WC WCO WH WM	VENT VENT THRU ROOF WASTE, WATT, WIDE WATER CLOSET WALL CLEANOUTS WALL HYDRANT WASHING MACHINE

	<u>GENERAL</u>
	ARCHITEC (THIN LIN
	NEW MEC (HEAVY L
	MATCHLIN
	<u>SECTION</u> (DETAIL S
	INDICATES PLANE
	LETTER IN (NO. INDI
M-3M-3	SHEET NU DRAWN SHEET NU TAKEN
	EQUIPMEN
	TYPICAL I (EXHAUSI
	<u>PIPING</u>
SS PW RL OL	SANITAR` PUMPED VENT (V) RAIN LEA OVERFLO
	CONDENS DOMESTIC HOT WAT
140 	HOT WAT OTHER T HOT WAT 120°F
— — 140 ——	HOT WAT TEMPERA
FOF	FUEL OIL
FOS	FUEL OIL
FOR	FUEL OIL
——— FOV ———	FUEL OIL
	FUEL OIL
RV	RELIEF V
RV G	
	RELIEF V
C	RELIEF V NATURAL

## **CONTRACTOR SUBSTITUTIONS & REVISIONS**

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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

### SYMBOLS

CTURAL BACKGROUND IE)	
CHANICAL WORK LINE)	
NE OR PROPERTY LINE	
IDENTIFICATION SIMILAR)	×,
S DIRECTION OF CUTTING	
NDICATES SECTION ICATES DETAIL)	
UMBER WHERE SECTION IS	X
UMBER WHERE SECTION IS	
NT	
EQUIPMENT DESIGNATION T FAN SHOWN)	
Y SEWER (SS) WASTE	——————————————————————————————————————
) ADER	i PS 
W RAIN LEADER	
SATE DRAIN	♦ ID
C WATER (DW)	
TER, POTABLE, 120°F (DHW)	,
TER, POTABLE, TEMPERATURE THAN 120°F	<del></del>
TER CIRCULATING (HWC), POTABLE,	\$ \$
TER CIRCULATING, POTABLE, ATURE OTHER THAN 120'F	
- FILL	Q
_ SUPPLY	 Ū
_ RETURN	
_ VENT	<u>+p/t</u>
/ENT	
L GAS	RPBP
PRESSURE NATURAL GAS	DCVA
ON	

PIPE	CAP
PIPE	PLUG
UNION	١
FLAN	GE
WYE	STRAINER
	STRAINER WITH CAPPED HOSE BLOWDOWN VALVE
BALL	VALVE
CHEC	K VALVE
BALA	NCING OR PLUG VALVE
BUTT	ERFLY VALVE
PRES	SURE REDUCING VALVE (PRV)
AUTO	MATIC CONTROL VALVE, 2-WAY
AUTC	MATIC CONTROL VALVE, 3-WAY
RELIE	F VALVE
BALA	NCING/MEASURING VALVE
FLEXI	BLE CONNECTION IN PIPING
PIPE	ANCHOR
PIPE	ALIGNMENT GUIDE
PIPE	SUPPORT
VALV	E STATION OR ASSEMBLY
INDIR	ECT DRAIN, PIPE TO DRAIN
FLOO	R DRAIN
HOSE	BIBB
BREA	K IN PIPING OR DUCTWORK
PUMF	,
PRES	SURE GAUGE
THER	MOMETER
	SURE/TEMPERATURE PORT
	CED PRESSURE BACKFLOW ENTER
PREV	

#### CONTRACTOR SUBSTITUTIONS & REVISIONS:

ALS FOR SUBSTITUTIONS OR REVISIONS FOR REVIEW AND APPROVAL PRIOR TO DOING WORK. FOR EQUIPMENT THAT IS SCHEDULED BY MANUFACTURER'S NAME AND THE MANUFACTURER'S PUBLISHED DATA AND/OR SPECIFICATION FOR THAT ITEM OF SPECIFICATION. ENGINEERING COSTS FOR REVISING MEP PLANS SHALL BE ST ANALYSIS OF THE SUBSTITUTION PROPOSAL. CONTRACTOR TO COORDINATE WITH NE ASSOCIATED DESIGN AND PERMITTING COSTS. CONTRACTOR SHALL BE SR COSTS ASSOCIATED WITH UNFORESEEN ISSUES RESULTING FROM SUBSTITUTIONS OR

AGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT FER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO TANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS EQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

### DRAWING INDEX



PO BOX 427 ROGERS, AR 72756 PH 479·631·1712 FX 479·631·1854

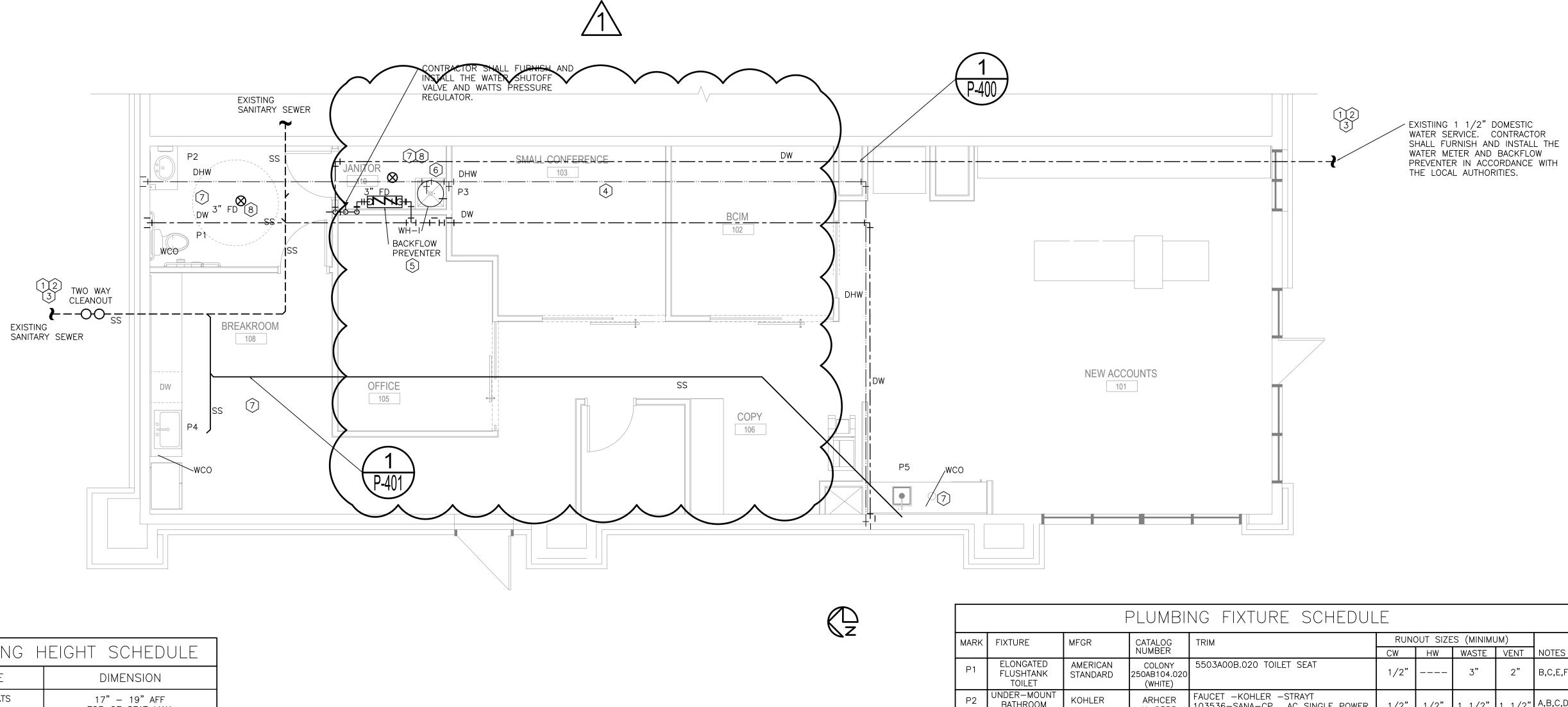
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	MATERIAL OR DEVICE	ES SHALL BE
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	AND THE ARCHITECT	FOR REVIEW.
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	THE CONTRACTORS O	VERSIGHT OR
	FAILURE TO VISIT THE	E SITE PRIOR
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	OR COMPENSATED.	COORDINATE
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	CONSTRUCTION. L	AYOUT ALL
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	CONTACT ARCHITECT	IMMEDIATELY
	WITH ANY ISS	SUES.

PRIOR TO BID/STAR OF CONSTRUCTION REQUIR EMENTS THESE DOCUMENTS ARE

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16014 PROJECT NO. DRAWN BY: CHK'D BY: SHEET TITLE

P-000



MOUNTING H	IEIGHT 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, MISSOURIFIXTURE UNIT CALCULATION:STATIC PRESSURE:70 PSI (ASSUMED) (1) WC $5 \times 1 = 5$ TOTAL F.U.:14(3) LAV $2 \times 3 = 6$ GPM: BUILDING USAGE17(1) MS $3 \times 1 = 3$ GPM: IRRIGATION USAGE00TOTAL PROJECTED WATER USAGE17 GPMWATER METER: $3/4$ "
70PSIPRESSURE IN MAIN-5PSILOSS THROUGH 3/4" METER-2PSILOSS THROUGH TAP-20PSIFIXTURE OPERATING PRESSURE-5.2PSIDROP FOR ELEVATION (12 FT.)-15PSIBACKFLOW PREVENTER25.8PSIAVAILABLE PRESSURE
PIPELENGTH(TAPTOMETER50FT.(ESTIMATED)PIPELENGTH(METERTOBUILDING)30FT.(ESTIMATED)PIPELENGTH(TOFURTHESTFIXTURE)145FT.VERTICALLENGTH10FT.EQUIVALENTLENGTH0FTOTALDEVELOPEDLENGTH290FT.
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		

KEYED DOMESTIC WATER NOTES
<ol> <li>CONTRACTOR SHALL CONFIRM EXACT LOCATION OF EXISTING SEWER AND WATER LINE AND EXISTING WATER METER WITH LOCAL UTILITIES PRIOR TO CONSTRUCTION.</li> <li>CONTRACTOR SHALL COORDINATE EXACT LOCATION OF UTILITIES OUTSIDE THE BUILDING THAT WORK MAY INTERFERE WITH OR CROSS.</li> </ol>
3 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.
6 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 CODES.
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		CATALOG	TRIM	RUNOUT SIZES (MINIMUM)				
			NUMBER		CW	НW	WASTE	VENT	NOTES
P1	ELONGATED FLUSHTANK TOILET	AMERICAN STANDARD	COLONY 250AB104.020 (WHITE)	5503A00B.020 TOILET SEAT	1/2"		3"	2"	B,C,E,F
P2	UNDER-MOUNT BATHROOM LAVATORY	KOHLER	ARHCER K–2355	FAUCETKOHLERSTRAYT 103536SANACP. AC SINGLE POWER SUPPLY K13480A. CONTRACTOR TO INSTALL A WATTS LFMMV- MIXING VALVE TO SERVE THE FAUCET (SET TO 110 F).	1/2"	1/2"	1 1/2"	1 1/2"	A,B,C,D, E,G
P3	SERVICE SINK	MUSTEE	63M	ONE PIECE MOLDED FROM HIGH IMPACT RESISTANT DURASTONE STRUCTURAL FIBERGLASS (24x24), 63.600A FAUCET, 65.700 HOSE AND HOSE HOLDER, 65.600 MOP HANGER, 63.401 20-3/4" VINYL BUMPER GUARDS	3/4"	3/4"	2"	1 1/2"	
P4	UNDER COUNTER LAVATORY	BLANCO	518478	FAUCET – MOEN S62308 SINGLE HANDLE HIGH ARC PULLDOWN PREP/BAR FAUCET. 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,D,G
P5	UNDER COUNTER LAVATORY	BLANCO	443144	FAUCET – MOEN S62308 SINGLE HANDLE HIGH ARC PULLDOWN PREP/BAR FAUCET. 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,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 HEATER						
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	
NOTES: 1. VERIFY VOLTAGE WITH ELECTRICAL CONTRACTOR.						

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



CONSTRUCTION REQUIREMENTS THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND IN SOME CASES, BASED ON INFORMATION THAT IS PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTOR TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. ANY COST SAVINGS OPTIONS OR REUSE OF EXISTING EQUIPMENT, MATERIAL OR DEVICES SHALL BE MADE AVAILABLE TO THE OWNER AND THE ARCHITECT FOR REVIEW. ANY REQUESTED CHANGES DUE TO THE CONTRACTORS OVERSIGHT OR FAILURE TO VISIT THE SITE PRIOR TO BID, SHALL NOT BE AUTHORIZED OR COMPENSATED. COORDINATE PO BOX 427 ALL LOUVER SIZES AND LOCATIONS PRIOR TO START OF ROGERS, AR 72756 CONSTRUCTION. LAYOUT ALL 

 PH 479.631.1712
 EQUIPMENT IN MECHANICAL ROOM

 FX 479.631.1854
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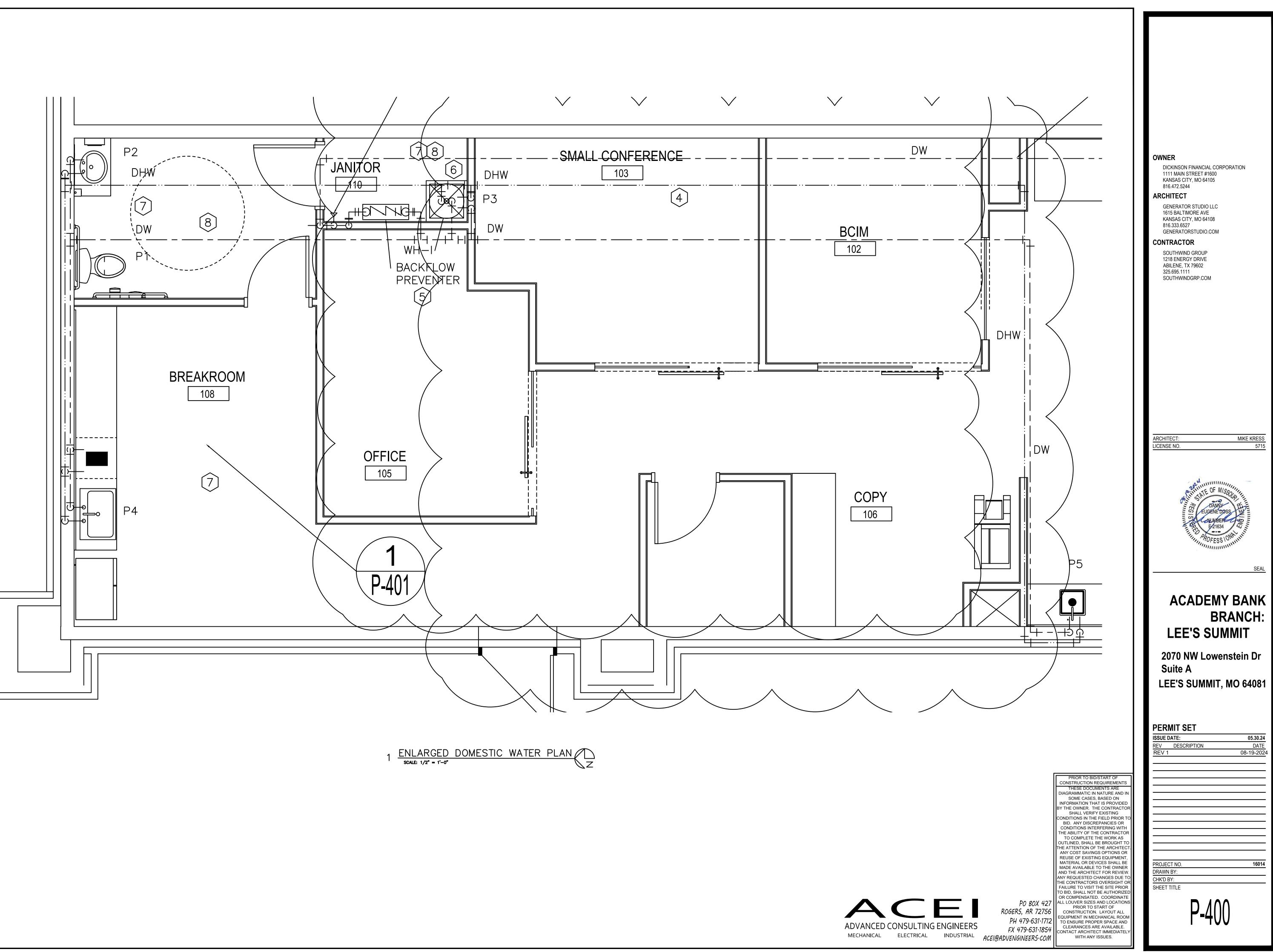
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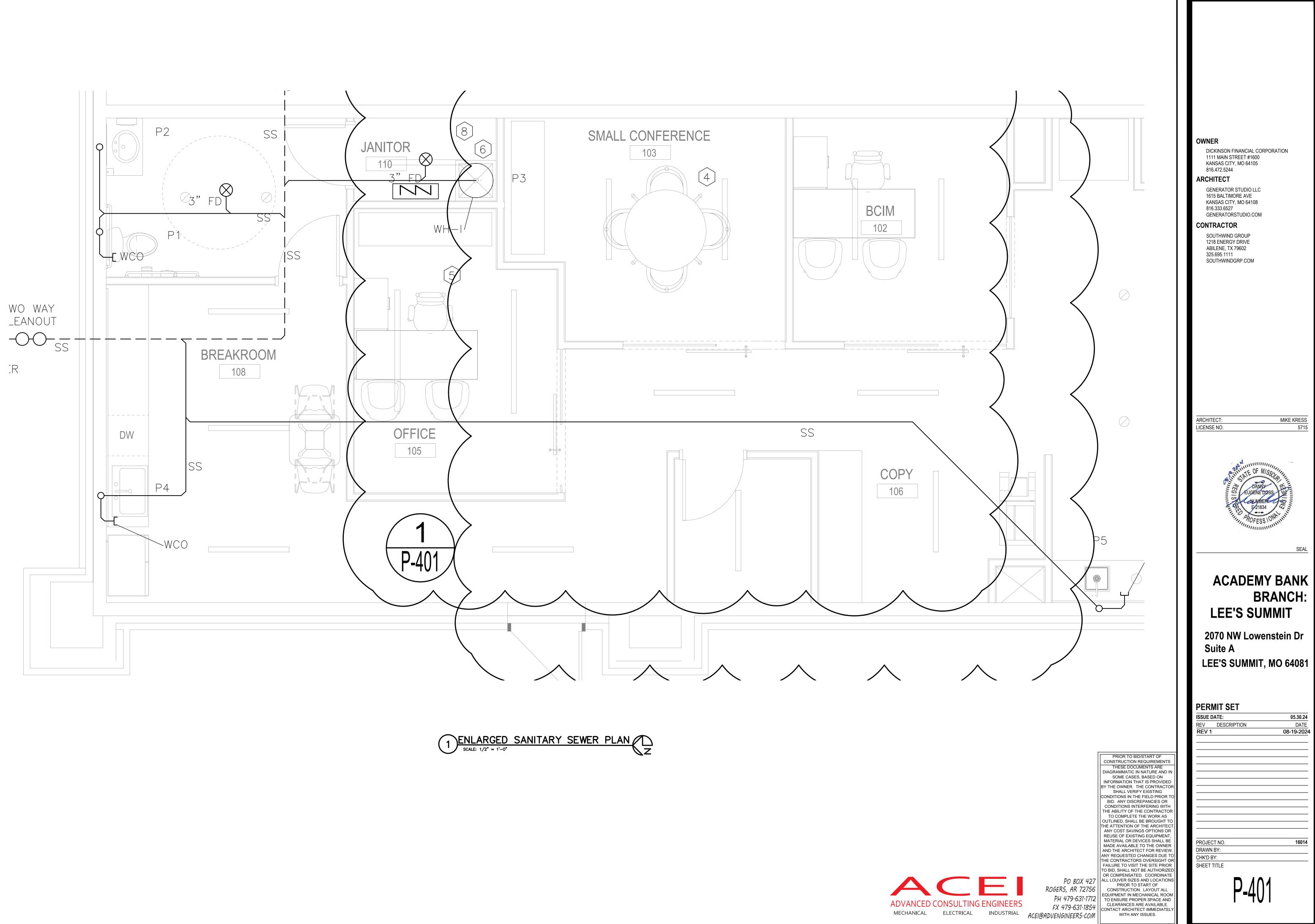
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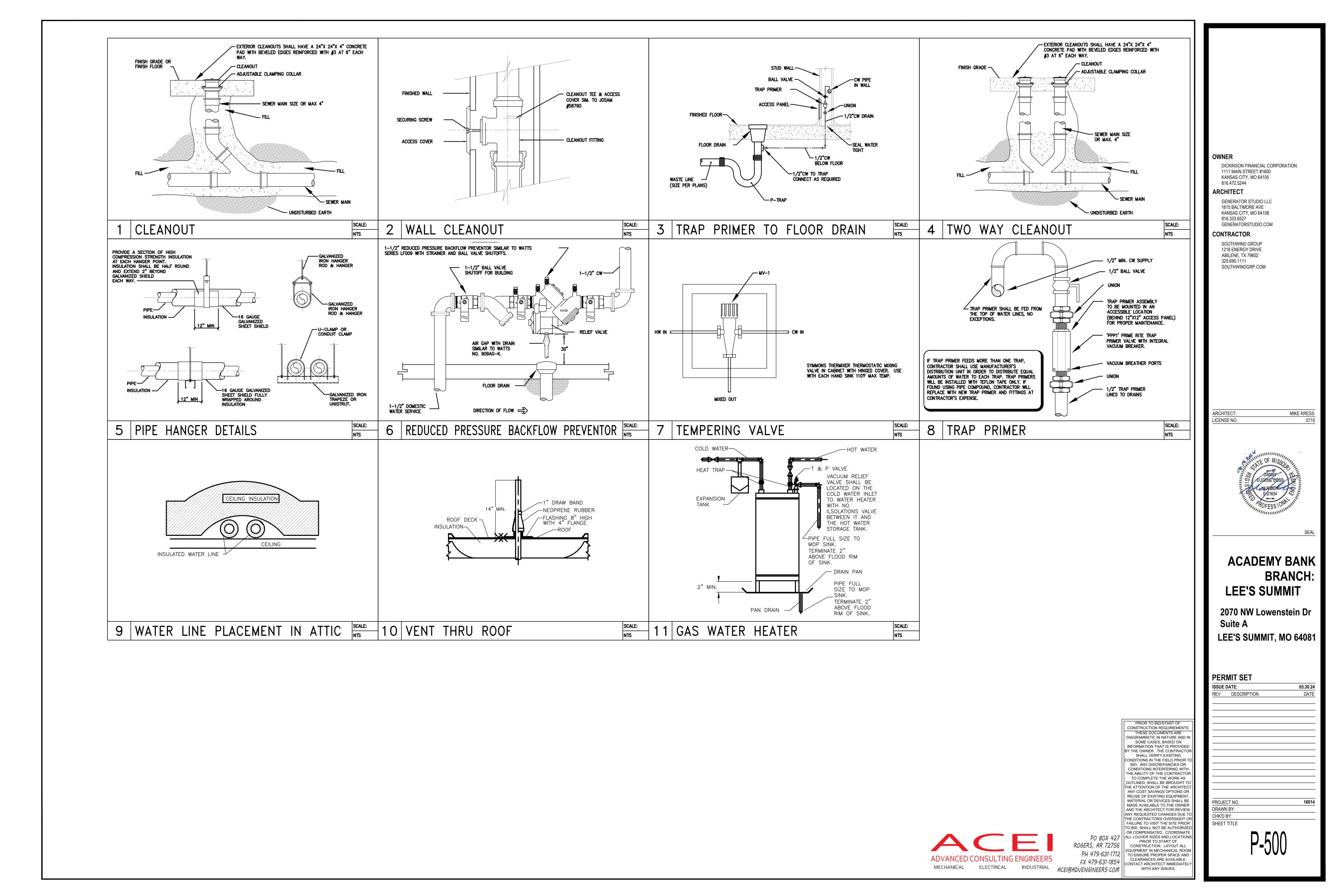
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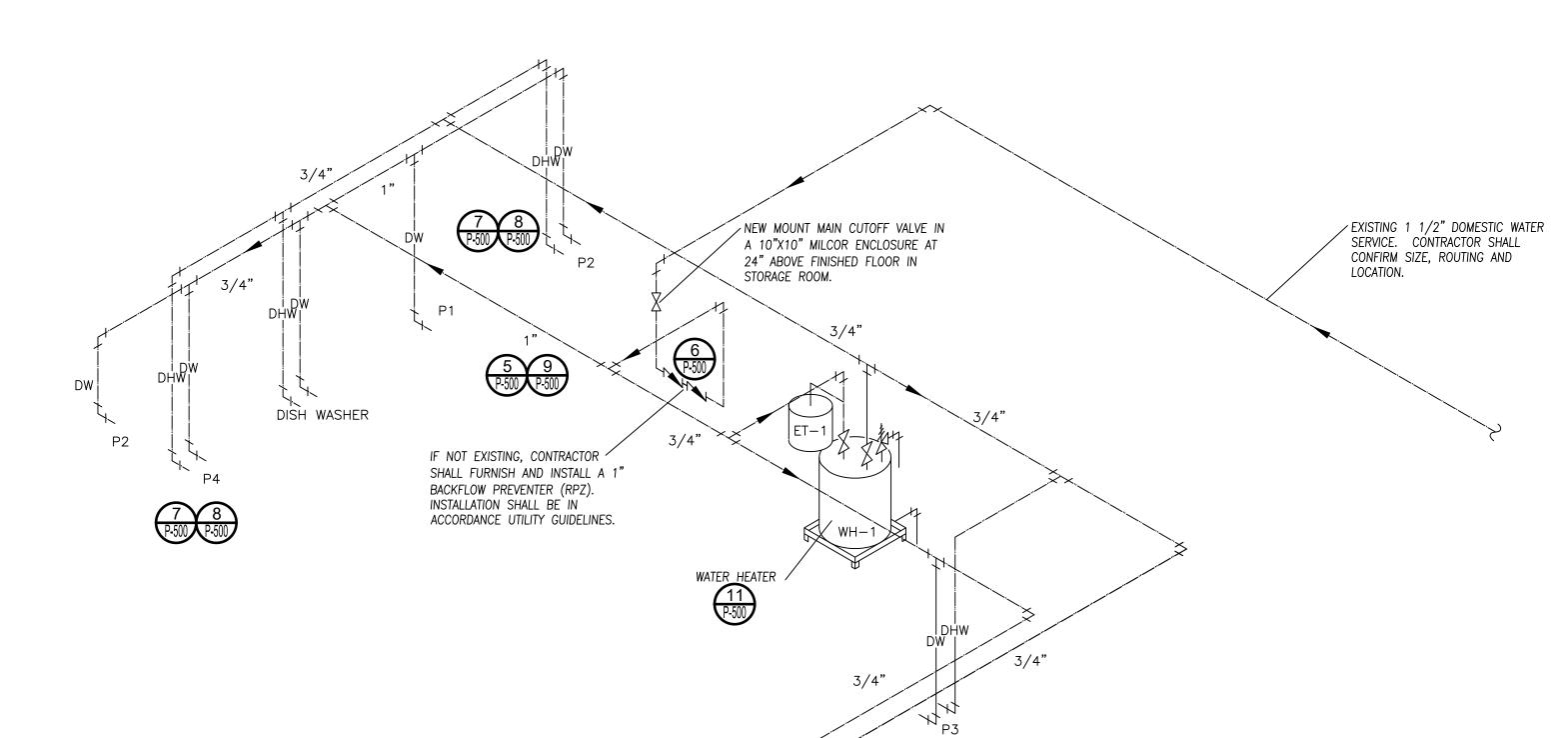
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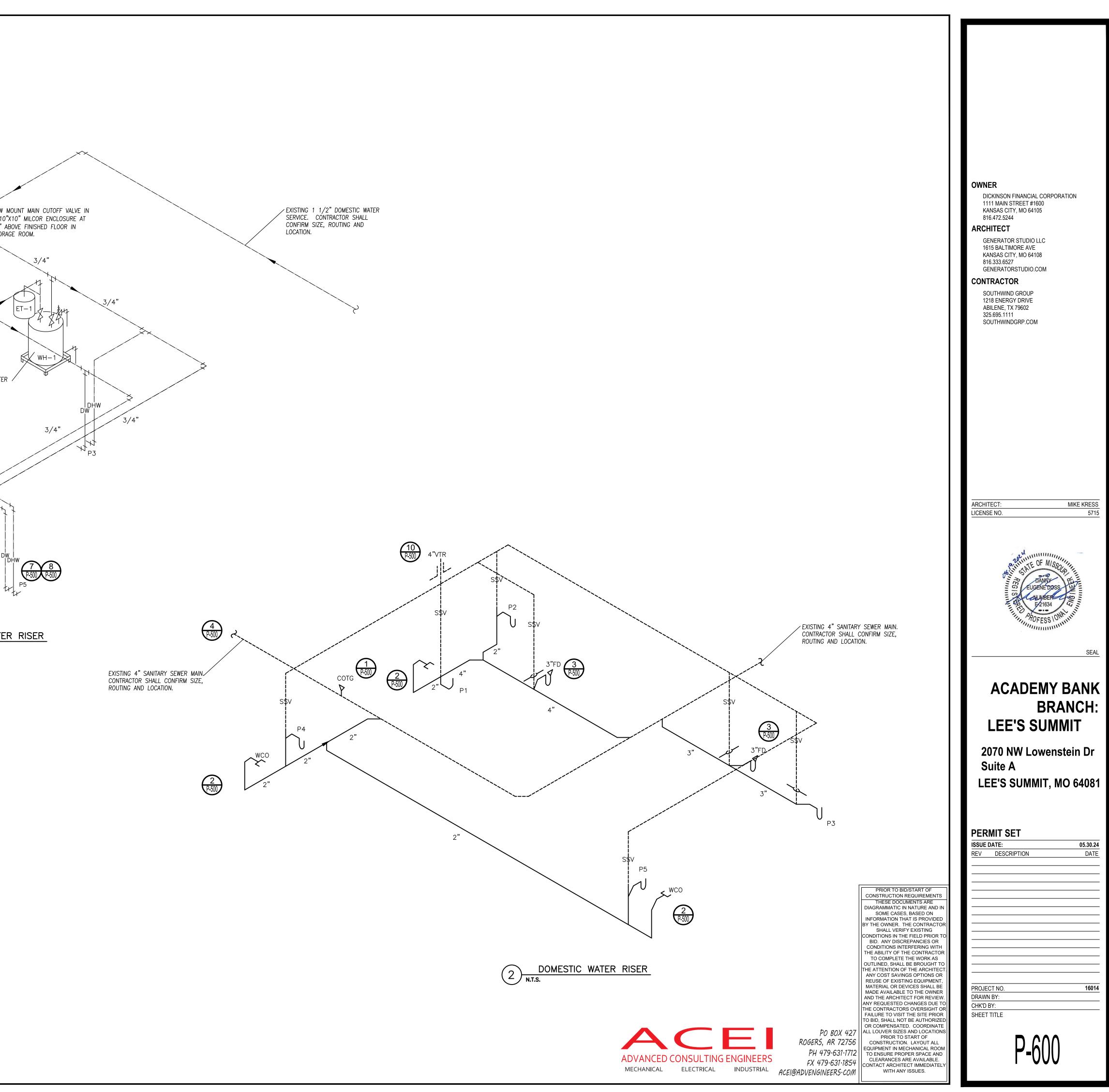
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DATE 08-19-2024





DOMESTIC WATER RISER



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<ul> <li>A. DUE SCHOLE PERM AND CONFERENCE IN THE ALL OF ALL</li></ul>	PART 1	GENERAL	PART 1	GENERAL
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<ul> <li>COMPAGE: Provide Controls were closed and prove the control of NUCL BY NUCLEY Provides and the Control of the Con</li></ul>				
<ul> <li>B. FLOR CLAN OUT (COL): DOT THOM MAY TARGED BANKS PLUG, THERACLD MULTIMAGE POSING, WID POSING COLOR: TWO MAY TARGED BANKS PLUG, THERACLD MULTIMAGE POSING, WID POSING COLOR: TWO BANK PLUT CALEND THE POSING COLOR: TO TO CREW (COL): SAFE AS TO DESCRIPT WITH HOW OUT CASE HWO AND FLUGH THOM STORE COLOR: SAFE AS TO DESCRIPT WITH HOW OUT CASE HWO AND FLUGH THOM STORE COLOR: SAFE AS TO DESCRIPT WITH HOW OUT CASE HWO AND FLUGH THOM STORE COLOR: SAFE AS TO DESCRIPT WITH HOW OUT CASE HWO AND FLUGH THOM STORE COLOR: SAFE AS TO DESCRIPT WITH HOW OUT CASE HWO AND FLUGH THOM STORE COLOR: SAFE AS TO DESCRIPT WITH HOW OUT CASE HWO AND FLUGH THOM STORE COLOR: SAFE AS TO DESCRIPT WITH HOW OUT CASE HWO AND FLUGH THOM STORE COLOR: SAFE AS TO DESCRIPT WITH HOW OUT CASE HWO AND FLUGH THOM STORE COLOR: SAFE AS TO DESCRIPT WITH HOW OUT CASE HWO AND FLUGH THOM STORE COLOR: SAFE AS TO DESCRIPT WITH HOW OUT CASE HWO AND FLUGH THOM STORE COLOR: SAFE AS TO DESCRIPT AND HAVE CLAREND COLOR: THOM STORE COLOR: SAFE AS TO DESCRIPT AND HAVE CLAREND COLOR: THOM STORE COLOR: SAFE AS TO DESCRIPT AND HAVE CLAREND COLOR: THOM STORE COLOR: SAFE AS TO DESCRIPT AND HAVE CLAREND COLOR: SAFE AS TO DESCRIPT THE SAFE AD OUT AND AN THINGS HWO OUT CASE HWO HAVE DESCRIPT AND HAVE CLAREND THE SAFE AS TO HAVE AND HAVE CLAREND COLOR: SAFE AS TO DESCRIPT THE SAFE AD OUT AND AND THE SAFE AS TO HAVE AND HAVE CLAREND AS THE DESCRIPT AND HAVE AND THE SAFE AS TO THE SAFE AND OUT ARD THE SAFE AS TO HAVE AND HAVE DESCRIPTIONE. SAFE AS TO DESCRIPT THE SAFE AND AND THE SAFE AS TO HAVE AND HAVE DESCRIPTIONE AND CHARGE AND THE SAFE AS TO HAVE AND HAVE DESCRIPTIONE. SAFE AS THE AND AND THE SAFE AND AND HAVE DESCRIPTIONE AND THE SAFE AS THE AND AND THE SAFE AND AND HAVE DESCRIPTIONE AND THE SAFE AS THE AND AND THE SAFE AND AND HAVE DESCRIPTIONE AND AND THE SAFE AND AND THE SAFE AS THE SAFE AND AND THE SAFE AS THE SAFE AND AND AND THE SAFE AND AND THE SAFE AND AND THE SAFE AS THE SA</li></ul>	Α.	CONNECTED. PROVIDE COVERS COMPATIBLE WITH TYPE OF FLOOR OR WALL FINISH WITH CONSIDERATION GIVEN TO TRAFFIC CONDITIONS. MAKE CLEAN OUTS SAME SIZE		USE CHROME PLATED BRASS PIPE WITH THREADED FITTINGS.
AUSTRALE POUSING, AND ROUND NORTL BERKES SOMETING TOP. C. CLEAN UP TO CORDER (CONT.) KIME AS TO DECEMPT WITH HEAVE DUTY CLESS ROW AND RUSH WITH FRANCING GROUP. C. CLEAN UP TO CORDER (CONT.) KIME AS TO DECEMPT WITH HEAVE DUTY CLESS ROW AND RUSH WITH FRANCING GROUP. 2.02 FLOOR DRAINS: C. CLEAN UP TO CORDER (CONT.) KIME AS TO DECEMPT WITH HEAVE DUTY CLESS ROW AND RUSH WITH FRANCING GROUP. 2.03 FLOOR DRAINS: C. STADLAND THOSE DOWN (CO): MEED AND ROT WITH FLANES, CLARING CULTUR WITH SERVER, CENTRES, ADD ALLERSTS SOMETIS WITH FLANES, CLARING CULTUR WITH SERVER, CENTRES, ADD ALLERSTS SOMETIS WITH FLANES, CLARING CULTUR WITH SERVER, CENTRES, ADD ALLERSTS SOMETIS WITH FLANES, CLARING CULTUR WITH SERVER, CENTRES, ADD ALLERSTS SOMETIS WITH FLANES, CLARING CULTUR WITH SERVER, CENTRES, ADD ALLERSTS SOMETIS WITH FLANES, CLARING CULTUR WITH SERVER, CENTRES, ADD ALLERSTS SOMETIS WITH FLANES, CLARING CULTUR WITH SERVER, CENTRES, ADD ALLERSTS SOMETIS WITH FLANES, CLARING CULTUR WITH SERVER, CENTRES, ADD ALLERSTS SOMETIS WITH RAVES, STATUS FLOOR CRAINS ARE 2 MICH SERVER WITH SINGLE AND CRAIN AND ALLERSTS SOMETIS WITH FLANES ADD ALLERSTS SOMETIS WITH SINGLE ADD FLANE AND CONTENTIONS. 3.02 INSTALLATION: A INSTALLATION INSTALLATION INSTALLATION: A INSTALLATION: A INSTALLATION INSTALLATION INSTALLATION INSTALLATION: A INSTALLATION INSTALLATION INSTALLATION INSTALLATION INSTALLATION INSTALLATION INSTALLATION INSTALLATION INSTALLATION INSTALATION INSTALLA				
<ul> <li>C. CLEAN OUT TO GRADE (COTE): SAME AS FOD EXCEPT NINH HEAVY DUTY CAST IRROY SCIENARID 100: 351 COTE IN U-HAN DAVELIER COMPARE MARKE 4-MINOR INHOR AN ET 2004 WITH PINER DURING COMPARE COMPARE MARKE 4-MINOR INHOR SCIENARID 100: 351 COTE IN U-HAN DAVELIER COMPARE MARKE 4-MINOR INHOR AN ET 2007 DIRANS:</li> <li>A. STADARD TORO GRAM (FD), LACOBERED DIST IRON BOOY WITH FLANCE COMPARE COLLING WITH STATE AND THE SCIENCE DIST IRON BOOY WITH FLANCE COMPARE ELONG WINDS AND LINGEN OUTS INCLUE ON COMPARES INCLUDING DIST. HUBBEN MICH SCIENCE DIST. INFORMATION AND FRANKE AND UNROUND INFORMATION AND FRANKE ELONG WINDS AND LINGEN OUTS AND ADDISTING IS SCIENCE DIST. INFORMATION INFORMATION AND FRANKE ELONG WINDS AND LINGEN OUTS AND ADDISTING IS SCIENCE DIST. INFORMATION INFORMATION INFORMATION INFORMATION INFORMATION INFORMATION INFORMATION INFORMATION INFORMATION INFORMATION INFORMATION INFORMATION INFORMATION INFORMATION INFORMATION INFORMATION INFORMATION INFORMATION INFORM</li></ul>	В.			WITH WROUGHT COPPER FITTINGS AND JOINTS MADE WITH 95-5 SOLD
<ul> <li>SCOMMEND TOR. 19 CONCENT MIT PLANES.</li> <li>SCOMMEND TOR. 19 CONCENT MIT PLANES, CLARMING CL</li></ul>				
<ul> <li>2.02 VALVES</li> <li>2.03 FLOOR DRAINS:</li> <li>A. SHORP FLOOR DRAINS:</li> <li>A. SHORP FLOOR DRAINS:</li> <li>A. SHORP FLOOR DRAINS:</li> <li>A. SHORP FLOOR DRAINS: AND AUXISS AND AUXISS SHOW OTHERWISE SITU PROVE SHOWED SITU PROVE THE SPREAD THE SPREAD</li></ul>	С.	SCORIATED TOP. SET COTG IN 10-INCH DIAMETER CONCRETE BASE 4-INCHS THICK		
<ul> <li>LOAR DRANS:</li> <li>LOAR DRANS:</li> <li>A SUBJER CONTINUES AND AUXISTANCE STATING RECEARD OF THE SERVED OWNER THE AUXIST SOURCE STATING RECEARD OWNER SUBJERCE RECEA</li></ul>		AND FLUSH WITH FINISHED GRADE.	2.02	VALVES:
<ul> <li>A. STAUARD FLOOR DRAW (TD): LACOURAD CAST IRON BODY WITH FLAVEL CLAMPING DULLAW WITH SELVER OR DRAWS, AND ADM.RADE SOLARE SOLA</li></ul>	2.03	FLOOR DRAINS:		
FLOOR DRAWS ARE 2 INCREST SHOWN OTHERWISE.       B. GATE VALUES: BRONZE, NON-PRISING STEM, INSIDE CREW, ROUGLE WEDGE.         PART 3       EXECUTION		STANDARD FLOOR DRAIN (FD): LACQUERED CAST IRON BODY WITH FLANGE, CLAMPING		THEY WILL BE EXPOSED. FURNISH WITH SOLDER OR SCREWED CONNECTIONS.
PART 3 EXECUTION 3.01 PREPARATION: A SWEP PRES AND CLEAN JOINTS AND FITTINGS MISDE AND OUT PROR TO MAKING SWEP PRESATION: A SWEP PRESATION: A UNLESS INDICATED OTHERINGS ON COMPRESSION GASKETS. JOINTS ALLATION: A UNLESS INDICATED OTHERINGS ON THE DRAWINGS, SLOPE HORIZONTAL DRAWI AND VENT PRIVE WITH ADD SMALLER 1/4" PER FOOT A UNLESS INDICATED OTHERINGS ON THE DRAWINGS, SLOPE HORIZONTAL DRAWI AND VENT PRIVE WITH COLOR DISC. JOINTS ALLATION: A UNLESS INDICATED OTHERINGS ON THE DRAWINGS, SLOPE HORIZONTAL DRAWI AND VENT PRIVE WITH LEGILOWICE JOINTS IN ACCORDANCE WITH THE FOLLOWICE JOINTS IN ACCORDANCE WITH THE FOLLOWICE JOINT PRIVE WITH LEGILOWICE JOINT PRIVE WITH LEGILOWICE JOINT PRIVE WITH LOCKLI UNDERGROUND OUTSIDE SEWER PIPE A MINIMUM OF 2 FEET FROM FINISHED JOINT ALLATION: JOINT FREE FROM LEAKS. LUBRICHTE CLEAN OUT PLUGS WITH MATURE GRAVE. JOINT FREE FROM LEAKS. LUBRICHTE CLEAN OUT PLUGS WITH MATURE JOINT FREET FOLLOWICE INTER THE AND DIA NOT OVER TIGHTEN. JOINT FREET FROM LEAKS. LUBRICHTE CLEAN OUT PLUGS WITH MATURE JOINT FREET FROM LEAKS. LUBRICHTE CLEAN OUT PLUGS WITH MATURE JOINT FREET FROM LINKS. LUBRICHTE CLEAN OUT PLUGS WITH MATURE JOINT FREET SERVICE. JOINT FREET SERVICE STISTEM TO AT LEAST 10 FEET OF HORDOSTATIC HEAD FOR JOINT FREE FROUGH PRIVED JOINTS COMPOUND TO CONNECT THREADED LEAK FREE. JOINT FREET SERVICE. JOINT FREET SERVICE STISTEM TO AT LEAST 10 FEET OF HORDOSTATIC HEAD FOR JOINT SEE FROUGH PRIVED STANCE WITH LOCAL				B. GATE VALVES: BRONZE, NON-RISING STEM, INSIDE CREW, DOUBLE WEDGE.
<ul> <li>3.01 PREPARATION:</li> <li>A. SINAB PIPES AND CLEAN JOINTS AND INTENDS INSIDE JND OUT PRIOR TO MAKING COMPETINGS. USE PROPER LUBRICANTS ON COMPRESSION GASKETS.</li> <li>3.02 INSTALLATION:</li> <li>A. UNLESS INDIGATED OTHERINGE ON THE DRAININGS, SLOPE HORZONTAL DRAIN AND VENT PRIOR TO MAKING</li> <li>3.02 INSTALLATION:</li> <li>A. UNLESS INDIGATED OTHERINGE ON THE DRAININGS, SLOPE HORZONTAL DRAIN AND VENT PRIOR TO JAKE TO PRIOR TO PRIOR TO JAKE TO PRIOR TO PRIOR TO PRIOR TO JAKE TO PRIOR TO JAKE TO PRIOR TO JAKE TO PRIO</li></ul>				
<ul> <li>A. SWAP PIPES AND CLEAN JOINTS AND FITTINGS INSIDE AND OUT PRIOR TO MAKING CONNECTIONS. USE PROPER LUBRICANTS ON COMPRESSION GASKETS.</li> <li>INSTALLATION:         <ul> <li>INSTALLATION:</li> <li>INSTALLATION:</li></ul></li></ul>	PART 3	EXECUTION		D. CHECK VALVES: BRONZE WITH SWING DISC.
A. SING PROPER LUBRICANTS ON COMPRESSION CASKETS.     JOST ALLATION:     A. UNLESS INDICATED OTHERWISE ON THE DRAWINGS, SLOPE HORIZONTAL DRAW AND     VENT PIPING INTEGRATION THE DRAWINGS, SLOPE HORIZONTAL DRAW AND     VENT PIPING INTEGRATION THE DRAWINGS, SLOPE HORIZONTAL DRAW AND     VENT PIPING INTEGRATION THE DRAWINGS, SLOPE HORIZONTAL DRAW AND     VENT PIPING INTEGRATION: <u>SIZE MINIMUM SLOPE     3" AND SMALLER 1/4" PER FOOT     4" AND LARGER 1/8" PER FOOT     5.000     400 DO TOT OVER TOTHER AND INSEED     400 DO NOT OVER TOTHER     400 DO NOT OVER TOTHER     400 DO NOT OVER TOTHER.     400 DO NOT OVER TOTHER     400 DO NOT OVER TOTHER.     400 DO NOT OVER TOTH</u>	3.01			
A.       NULESS INDICATED OTHERWISE ON THE DRAWINGS, SLOPE HORIZONTAL DRAW AND VENT PIPING IN ACCORDANCE WITH THE FOLLOWING:       PART 3       EXECUTION         SIZE       MINIMUM_SLOPE 3" AND SMALLER 1/4" PER FOOT 4" AND LARGER 1/4" PER FOOT 4" AND LARGER 1/4" PER FOOT       A.       REAM PIPES AND TUBING AND THOROUGHLY CLEAN INSIDE AND OUTSIDE PRIOR TO CONNECTING.         B.       BUTY ALL UNDERGROUND OUTSIDE SEWER IPPE A MINIMUM OF 2 FEET FROM FINISHED GRADE.       A.       SLOPE WATER PIPING MINIMUM OF 1 INCH IN 40 FEET AND ARRANGE TO DRAW AT ALL LOW POINTS.         C.       MAKE CLEAN OUT FREE FROM LEAKS. LUBRICATE CLEAN OUT PLUGS WITH MIXTURE GRADE.       B.       BURY ALL UNDERGROUND OUTSIDE PIPING A MINIMUM OF 3 FEET BELOW FINISHED GRADE.       A.         J.       MAKE CLEAN OUT FREE FROM LEAKS. LUBRICATE CLEAN OUT PLUGS WITH MIXTURE SEVERE SERVICE.       B.       BURY ALL UNDERGROUND OUTSIDE PIPING A MINIMUM OF 3 INCH IN 40 FEET AND ARRANGE TO DRAW AT ALL LOW POINTS.         J.       MAKE CLEAN OUT FREE FROM LEAKS. LUBRICATE CLEAN OUT PLUGS WITH MIXTURE SEVERE SERVICE.       B.       BURY ALL UNDERGROUND OUTSIDE PIPING A MINIMUM OF 3 INCH INSHED GRADE.       C.       USE ELECTRICALLY INSULATING TYPE CONNECTIONS FOR JOINING DISSIMLAR METALS SUCH AS BRASS VALUES OR ADAPTERS FOR SORWED VALUES TO COPPER PIPING.       USE PROPER ADAPTERS FOR SORWED VALUES TO COPPER PIPING.       USE FEFLON TAPE OR OTHER APPROVED JOINTS COMPOUND TO CONNECT THREADED PIPE.         3.0.       TESTING:       .       WATER TEST - SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR 30 MINUTES.       U	A.			BRONZE CASING AND BOX WITH LOÓSE KEY HANDLE. FURNISH FOR PROPER WALL
<ul> <li>A. UNLESS INDICATED OTHERINGE ON THE DRAWINGS, SLOPE HORIZONTAL DRAW AND VENT PIPHING IN CORRECTING.</li> <li>SIZE MINIMUM SLOPE</li> <li>3" AND SMALLER 1/4" PER FOOT</li> <li>4" AND LARGER 1/4" PER FOOT</li> <li>4" AND LARGER 1/4" PER FOOT</li> <li>5.02 INSTALLATION:</li> <li>A. BEAR VIPES AND TUBING AND THOROUGHLY CLEAN INSIDE AND OUTSIDE PRIOR TO CONNECTING.</li> <li>3.03 INSTALLER 1/4" PER FOOT</li> <li>A. REAM PIPES AND LARGER AND OUTSIDE SEVER PIPE A MINIMUM OF 2 FEET FROM FINISHED OF GRAPHITE AND LINSEED OIL AND DO NOT OVER TIGHTEN.</li> <li>D. ARRANGE WITH LOCAL UTILITY FOR SEVER TAP AND PAY ALL COSTS TO ESTABLISH SEVER SERVICE.</li> <li>3.03 TESTING:</li> <li>A. BEFORE CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE:</li> <li>1. WATER TEST - SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR 30 MINUTES.</li> <li>2. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>3. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>3. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>3. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>3. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>3. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> </ul>	3.02	INSTALLATION:		
SIZE       MINIMUM SLOPE       A       PEAN PIPES AND TUBING AND THOROUGHLY CLEAN INSIDE AND OUTSIDE PRIOR TO         3° AND SMALLER 4" AND LARGER       1/4" PER FOOT 1/8" PER FOOT       A       PEAN PIPES AND TUBING AND THOROUGHLY CLEAN INSIDE AND OUTSIDE PRIOR TO         B       BURY ALL UNDERGROUND OUTSIDE SEWER PRE A MINIMUM OF 2 FEET FROM FINSHED       A       SOZ       A         C       MAKE CLEAN OUT FREE FROM LEAKS. LUBRICATE CLEAN OUT PLUGS WITH MIXTURE OF GRAPHITE AND LINSEED OIL AND DIO TO VERT TIGHTEN.       A       SUDY ALL UNDERGROUND OUTSIDE PIPING A MINIMUM OF 3 FEET BELOW FINISHED         A       ARRANGE WITH LOCAL UTLITY FOR SEWER TAP AND PAY ALL COSTS TO ESTABLISH SEWER SERVICE.       C       USE PLECIFICALLY INSULATION TYPE CONNECTIONS FOR JOINING DISSIMILAR METALS GRADE.         3.03       TESTING:       -       -       -       -       -         A       REFORE CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE:       -	Α.		PART 3	EXECUTION
<ul> <li>3" AND SMALLER 1/4" PER FOOT</li> <li>3" AND SMALLER 1/4" PER FOOT</li> <li>4" AND LARGER 1/8" PER FOOT</li> <li>5. BURY ALL UNDERGROUND OUTSIDE SEWER PIPE A MINIMUM OF 2 FEET FROM FINISHED GRADE.</li> <li>C. MAKE CLEAN OUT FREE FROM LEAKS. LUBRICATE CLEAN OUT PLUGS WITH MIXTURE OF GRAPHITE AND DO NOT OVER TIGHTEN.</li> <li>D. ARRANGE WITH LOCAL UTILITY FOR SEWER TAP AND PAY ALL COSTS TO ESTABLISH SEWER SERVICE.</li> <li>3.03 TESTING: <ul> <li>A. BEFORE CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE:</li> <li>WATER TEST - SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR 30 MINUTES.</li> <li>A. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> </ul> </li> <li>A. ARRANGE WITH LOCAL UTILITY FOR WATER TAP AND METER INSTALLATIO FERT FOR 30 MINUTES.</li> <li>A. BEFORE CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE: <ul> <li>WATER TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>A. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> </ul> </li> </ul>			3.01	PREPARATION:
<ul> <li>4" AND LARGER</li> <li>5000 AUTOR COUNT OUTSIDE SEVER PIPE A MINIMUM OF 2 FEET FROM FINISHED GRADE.</li> <li>5000 AMARE CLEAN OUT FREE FROM LEAKS. LUBRICATE CLEAN OUT PLUGS WITH MIXTURE OF GRAPHITE AND LINSEED OIL AND DO NOT OVER TIGHTEN.</li> <li>5000 ARRANGE WITH LOCAL UTILITY FOR SEVER TAP AND PAY ALL COSTS TO ESTABLISH SEVER SERVICE.</li> <li>5000 TESTING:         <ul> <li>5000 TESTING:</li> <li>5000 SEGRER CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE:</li> <li>5000 WINTES.</li> <li>5000 ARRENDER CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE:</li> <li>5000 WINTES.</li> <li>5000 ARRENDER CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE:</li> <li>5000 WINTES.</li> <li>5000 WINTES.</li> <li>5000 ARRENDER CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE:</li> <li>5000 WINTES.</li> <li></li></ul></li></ul>				
<ul> <li>B. BURY ALL UNDERGROUND OUTSIDE SEWER PIPE A MINIMUM OF 2 FEET FROM FINISHED GRADE.</li> <li>C. MAKE CLEAN OUT FREE FROM LEAKS. LUBRICATE CLEAN OUT PLUGS WITH MIXTURE OF GRAPHITE AND LINSEED OIL AND DO NOT OVER TIGHTEN.</li> <li>D. ARRANGE WITH LOCAL UTILITY FOR SEWER TAP AND PAY ALL COSTS TO ESTABLISH SEWER SERVICE.</li> <li>3.03 TESTING: <ul> <li>A. BEFORE CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE:</li> <li>WATER TEST - SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR 30 MINUTES.</li> <li>A. ARRANGE WITH LOCAL UTILITY FOR SEVER TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>A. RTEAST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> </ul> </li> </ul>		,		
ALL LOW POINTS. ALL LOW POINTS. BURY ALL UNDERGROUND OUTSIDE PIPING A MINIMUM OF 3 FEET BELOW FINISHED GRADE. 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. A. BEFORE CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE: 1. WATER TEST – SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR 2. AIR TEST – SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR 2. AIR TEST – SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES. (OPTIONAL) ALL LOW POINTS. ALL LOW POINTS. BURY ALL UNDERGROUND OUTSIDE PIPING A MINIMUM OF 3 FEET BELOW FINISHED GRADE. C. USE ELECTRICALLY INSULATING TYPE CONNECTIONS FOR JOINING DISSIMILAR METALS SUCH AS BRASS VALVES OR ADAPTERS FOR SCREWED VALVES TO COPPER PIPING. USE PROPER ADAPTERS FOR SCREWED VALVES TO COPPER PIPING. D. USE TEFLON TAPE OR OTHER APPROVED JOINTS COMPOUND TO CONNECT THREADED E. PIPE. CONNECT TO T & P RELIEF VALVE AND EXTEND FULL SIZE TO APPROVED DISCHARGE F. POINT. WHERE PIPE PASSES THROUGH FINISHED WALL, CEILING, OR FLOOR, PROVIDE CHROME G. PLATED ESCUTCHEON PLATE SECURELY ANCHORED TO PIPE. INSTALL PIPE SO THAT NO THREADS SHOW. H CORST DI FERMISH WATER FERVICES.	В.	BURY ALL UNDERGROUND OUTSIDE SEWER PIPE A MINIMUM OF 2 FEET FROM FINISHED	3.02	INSTALLATION:
<ul> <li>oF GRAPHITE AND LINSEED OIL AND DO NOT OVER TIGHTEN.</li> <li>D. ARRANGE WITH LOCAL UTILITY FOR SEWER TAP AND PAY ALL COSTS TO ESTABLISH SEWER SERVICE.</li> <li>3.03 TESTING: <ul> <li>a. BEFORE CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE:</li> <li>1. WATER TEST - SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR 30 MINUTES.</li> <li>2. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>2. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>3. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>3. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>4. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>5. BUG AND ADD AND AND AND AND AND AND AND AND</li></ul></li></ul>		GRADE.		
<ul> <li>D. ARRANGE WITH LOCAL UTILITY FOR SEWER TAP AND PAY ALL COSTS TO ESTABLISH SEWER SERVICE.</li> <li>3.03 TESTING: <ul> <li>A. BEFORE CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE:</li> <li>1. WATER TEST - SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR 30 MINUTES.</li> <li>2. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES. (OPTIONAL)</li> </ul> </li> <li>BEFORE CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE:</li> <li>1. WATER TEST - SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR 30 MINUTES.</li> <li>2. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>3. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>4. COSTS TO FSTABLISH WATER SECURELY ANCHORED TO PIPE. INSTALLATION. PAY ALL COSTS TO FSTABLISH WATER SERVICES.</li> </ul>	С.			
<ul> <li>3.03 TESTING:</li> <li>A. BEFORE CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE:</li> <li>1. WATER TEST - SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR 30 MINUTES.</li> <li>2. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES. (OPTIONAL)</li> <li>B. D. USE TEFLON TAPE OR OTHER APPROVED JOINTS COMPOUND TO CONNECT THREADED</li> <li>B. D. USE TEFLON TAPE OR OTHER APPROVED JOINTS COMPOUND TO CONNECT THREADED</li> <li>B. D. USE TEFLON TAPE OR OTHER APPROVED JOINTS COMPOUND TO CONNECT THREADED</li> <li>B. D. USE TEFLON TAPE OR OTHER APPROVED JOINTS COMPOUND TO CONNECT THREADED</li> <li>B. D. USE TEFLON TAPE OR OTHER APPROVED JOINTS COMPOUND TO CONNECT THREADED</li> <li>B. D. USE TEFLON TAPE OR OTHER APPROVED JOINTS COMPOUND TO CONNECT THREADED</li> <li>B. D. USE TEFLON TAPE OR OTHER APPROVED JOINTS COMPOUND TO CONNECT THREADED</li> <li>B. D. USE TEFLON TAPE OR OTHER APPROVED JOINTS COMPOUND TO CONNECT THREADED</li> <li>B. D. USE TEFLON TAPE OR OTHER APPROVED JOINTS COMPOUND TO CONNECT THREADED</li> <li>B. D. D. USE TEFLON TAPE OR OTHER APPROVED JOINTS COMPOUND TO CONNECT THREADED</li> <li>B. D. D.</li></ul>	D.			SUCH AS BRASS VALVES OR ADAPTERS OR INSULATING COUPLINGS.
<ul> <li>A. BEFORE CONCEALING, TEST DRAIN, WASTE, AND VENT SYSTEM AND PROVE LEAK FREE:</li> <li>1. WATER TEST - SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR 30 MINUTES.</li> <li>2. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES. (OPTIONAL)</li> <li>E. PIPE.</li> <li>E. PIPE.</li> <li>CONNECT TO T &amp; P RELIEF VALVE AND EXTEND FULL SIZE TO APPROVED DISCHARGE POINT.</li> <li>WHERE PIPE PASSES THROUGH FINISHED WALL, CEILING, OR FLOOR, PROVIDE CHROME PLATED ESCUTCHEON PLATE SECURELY ANCHORED TO PIPE. INSTALL PIPE SO THAT NO THREADS SHOW.</li> <li>ARRANGE WITH LOCAL UTILITY FOR WATER TAP AND METER INSTALLATION. PAY ALL COSTS TO ESTABLISH WATER SERVICES.</li> </ul>	3.0.3	TESTING:		D.
<ol> <li>WATER TEST - SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES. (OPTIONAL)</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> </ol>				E. PIPE.
<ul> <li>2. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES. (OPTIONAL)</li> <li>3. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>4. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>4. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>4. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>4. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>4. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>4. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>4. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>4. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>4. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>4. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>4. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>4. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>4. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>5. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>5. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>6. PLATED ESCUTCHEON PLATE SECURELY ANCHORED TO PIPE. INSTALL PIPE SO THAT NO THREADS SHOW.</li> <li>6. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>6. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> <li>6. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.</li> </ul>		1. WATER TEST - SUBJECT SYSTEM TO AT LEAST 10 FEET OF HYDROSTATIC HEAD FOR		F. POINT.
H COSTS TO ESTABLISH WATER SERVICES.		2. AIR TEST - SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES.		G. PLATED ESCUTCHEON PLATE SECURELY ANCHORED TO PIPE. INSTALL PIPE SO THAT NO THREADS SHOW.
		SECTION		

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

### IALL COORDINATE WITH LOCAL GAS COMPANY THE STANDARD GAS DULD THE SYSTEM EXCEED THE STANDARD GAS PRESSURE AND USE PRESSURE GAS CONTRACTOR SHALL PROVIDE A GAS REGULATOR AT EQUIPMENT REQUIRING GAS SHOULD LOCATIONS NOT BE SHOWN ON VIDE VENTING ACCORDINGLY SHOULD THE REGULATOR BE INSTALLED NNG. 2.04 2.05 LING, TEST NATURAL GAS PIPING SYSTEM AND PROVE LEAK FREE. I TO AT LEAST 50 PSIG AIR PRESSURE FOR 3 MINUTES. OUND PIPING COATING WITH A "HOLIDAY" DETECTOR AND PROVE FREE CURRENTS THROUGH COATING. 2.06 2.07 ED: RIALS. 2.08 NTS. D JACKETS. FABRIC-REINFORCING MESH. 2.09 ACKETS. 2.10 15000 GENERAL MECHANICAL REQUIREMENTS. 15005 MECHANICAL INSULATION.

		5. 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.	
		MINERAL-FIBER, PERFORMED PIPE INSULATION. D. MINERAL-FIBER, PIPE AND TANK INSULATION. MINERAL OR GLASS FIBERS	
		BONDED WITH A THERMOSETTING RESIN. E. POLYOLEFIN: UNICELLULAR, POLYETHYLENE THERMAL PLASTIC INSULATION.	
		F. POLYSTYRENE: RIGID, EXTRUDED CELLULAR POLYSTYRENE INTENDED FOR USE AS THERMAL INSULATION.	
		G.	
.02	A.	INSULATING CEMENTS: MINERAL-FIBER, HYDRAULIC-SETTING INSULATING AND FINISHING CEMENT: COMPLY	
.03		WITH ASTM C 449/C 449M. ADHESIVES:	
	A.	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.	
		<ol> <li>CELLULAR-GLASS POLYSTYRENE.</li> <li>FLEXIBLE ELASTOMERIC AND POLYOLEFIN.</li> <li>MINERAL-FIBER.</li> </ol>	
		<ol> <li>MINULAL—FIDER.</li> <li>POLYSTYRENE.</li> <li>ASJ, FSK, AND PVDC JACKET ADHESIVE.</li> <li>PVC JACKET.</li> </ol>	
.04	А.	MASTICS: VAPOR-BARRIER MASTIC	
	В.	BREATHER MASTIC. SEALANTS:	
	А. В.	JOIN SEALANT. FSK AND METAL JACKET FLASHING SEALANT. ASJ FLASHING SEALANT AND VINYL, PVDC, AND PVC JACKET FLASHING SEALANT.	
.06		FACTORY-APPLIED JACKETS:	
	A. B. C.	ASJ ASJ-SSL FSK IVDC LACKET FOR INDOOR ARRIVOATIONS	
	D. E. F.	PVDC JACKET FOR INDOOR APPLICATIONS PVDC JACKET FOR OUTDOOR APPLICATIONS PVDC—SSL JACKET	
2.07	A.	FIELD-APPLIED FABRIC-REINFORCING MESH:	
2.08	A.	FIELD-APPLIED JACKETS: PVC JACKET	
	В. С.	ALUMINUM JACKET UNDERGROUND DIRECT-BURIED JACKET TAPES:	
	А. В.	ASJ FSK	
	C. D. E.	PVC ALUMINUM—FOIL PVC	
.10		SECUREMENTS: ALUMINUM BANDS	
	A. B. C. D. E. F.	INSULATION PINS AND HANGERS NONMETAL, ADHESIVELY ATTACHED, PERFORATED-BASE INSULATION HANGERS SELF-STICKING BASE INSULATION HANGERS INSULATION-RETAINING WASHERS NONMETAL INSULATION-RETAINING WASHERS STAPLES	
	G. H.		
	А. В.	CORNER ANGLES: PVC CORNER ANGLES ALUMINUM CORNER ANGLES	
ART		EXECUTION	
.01	А.	PREPARATION SURFACE PREPARATION: CLEAN AND DRY SURFACES TO RECEIVE INSULATION.	
	А. В.	REMOVE MATERIALS THAT WILL ADVERSELY AFFECT INSULATION APPLICATION. COORDINATE INSULATION INSTALLATION WITH THE TRADE INSTALLING HEAT TRACING. COMPLY WITH REQUIREMENTS FOR HEAT TRACING THAT APPLY TO	
	C.	INSULATION. MIX INSULATING CEMENTS WITH CLEAN POTABLE WATER; IF INSULATING CEMENTS ARE TO BE IN CONTACT WITH STAINLESS—STEEL SURFACES, USE DEMINERALIZED WATER.	
5.02		GENERAL INSTALLATION REQUIREMENTS:	
	A.	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 SOME CASES, BASED ON INFORMATION THAT IS PROVIDE BY THE OWNER. THE CONTRACTO SHALL VERIFY EXISTING
		INSTALL ACCESSORIES COMPATIBLE WITH INSULATION MATERIALS AND SUITABLE FOR THE SERVICE.	CONDITIONS IN THE FIELD PRIOR BID. ANY DISCREPANCIES OR CONDITIONS INTERFERING WITH THE ABILITY OF THE CONTRACTO
ND	OF	SECTION	TO COMPLETE THE WORK AS OUTLINED, SHALL BE BROUGHT T THE ATTENTION OF THE ARCHITED ANY COST SAVINGS OPTIONS OF REUSE OF EXISTING EQUIPMENT MATERIAL OR DEVICES SHALL BI MADE AVAILABLE TO THE OWNEL AND THE ARCHITECT FOR REVIEV ANY REQUESTED CHANGES DUE THE CONTRACTORS OVERSIGHT (
			FAILURE TO VISIT THE SITE PRIO TO BID, SHALL NOT BE AUTHORIZE OR COMPENSATED. COORDINAT
		PO BOX 427 ROGERS, AR 72756	ALL LOUVER SIZES AND LOCATION PRIOR TO START OF CONSTRUCTION. LAYOUT ALL

MECHANICAL ELECTRICAL INDUSTRIAL ACEI@ADVENGINEERS.COM

#### 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: LICENSE NO. MIKE KRESS 5715



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
	CT NO.	16014
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