GENERATOR STUDIO

ACADEMY BANK LEE'S SUMMIT TENANT IMPROVEMENTS

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

REV	DESCRIPTION	DATE

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

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

CIVIL ENGINEER:
UHL ENGINEERING INC
7211 W 98TH TERRACE SSTE 110
OVERLAND PARK, KS 66212
913.385.2670

MEP ENGINEER
ADVANCED CONSULTING ENGINEERS
132 KELLEY DR
ROGERS, AR 72756
479.631.1712 EXT 101

FOR CONSTRUCTION

05.17.2024

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.

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.

13. THE GENERAL CONTRACTOR SHALL SEE THAT ALL SUBCONTRACTORS RECEIVE COMPLETE SETS OF 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.

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.

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.

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.

18. THE ARCHITECT IS NOT RESPONSIBLE FOR ERRORS, OMISSIONS OR DELAYS BY THE CONTRACTOR.

19. CONTRACTOR SHALL COORDINATE SCHEDULING, PROVISIONS FOR INSTALLATION, LOCATIONS AND THE ACTUAL INSTALLATION OF ITEMS FURNISHED BY TENANT/OWNER OR BY OTHERS.

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 THIS CONTRACTOR OR SUBCONTRACTOR TO IMPEDE THE ACCESS OR OPERATION OF ANY OTHER CONTRACTOR ON THE PREMISES, UNION, OR NON-UNION.

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.

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.

23. ALL WALL DIMENSIONS ARE AS FOLLOWS UNLESS NOTED OTHERWISE:
    a. FINISHED FACE OF PARTITION / WALL
    b. CENTER LINE OF WALL EQUALS CENTER LINE OF MULLION.
    c. TO TOP OF FINISH SLAB AT FLOORS.
    d. TO BOTTOM OF FINISH AT CEILINGS.

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.

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.

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.

27. THE ARCHITECT SHALL HAVE THE RIGHT TO MAKE FIELD ADJUSTMENTS IN ORDER TO MAINTAIN DESIGN INTENT.

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.

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.

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 EXPENSE AND SHALL NOT IMPACT THE SCHEDULE.

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

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

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.

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.

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 CONDITIONS. NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND NEW WORK. OMISSIONS ON CONFLICTS IN THE DRAWINGS AND ANY RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK.

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 OF CONTRACT.

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 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 & 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.

39. OBTAIN THE OWNER'S WRITTEN AUTHORIZATION BEFORE ANY WORK IS PERFORMED OR MATERIAL ORDERED WHICH INVOLVES EXTRA COST OVER AND ABOVE CONTRACT PRICE.

40. "THROUGH-PENETRATION FIRESTOP SYSTEMS" TO BE PROVIDED AT PENETRATIONS THROUGH RATED PARTITIONS AND FLOOR.

41. MANUFACTURERS NAME, TRADEMARK, LOGOS, ETC. SHALL NOT BE VISIBLE TO THE PUBLIC.

42. ALL SECURITY, AUDIO VISUAL, TELEPHONE, AND DATA CABLING SHALL BE PLENUM RATED.

43. FLASH PATCH CONCRETE TO A SMOOTH MONOLITHIC SURFACE. REMOVE ROUGH SPOTS AND PROTRUSIONS.

44. ALL CLOSETS AND ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS ADJOINING SPACES.

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.

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.

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.

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.

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.

51. OPEN EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, 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

THERMAL VALUES	R - VALUES
WALLS	R - 20
ROOF / CEILING ASSEMBLY	R - 38
SLAB ON GRADE (MASS) FLOOR	R - 10 CONTINUOUS INSULATION
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 LESS THAN 500 SQUARE FEET

NOTES:
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

EARTH
AGGREGATE FILL
CONCRETE
CONCRETE MASONRY UNITS
DISCONTINUOUS ROUGH LUMBER
CONTINUOUS LUMBER
PLYWOOD
RIGID INSULATION
BLANKET INSULATION
GROUT
STEEL
GYPSUM BOARD MORTAR JOINTS
FINISH LUMBER

GRAPHIC SYMBOLS C2

SHEET LIST

GENERAL

G000	PROJECT COVER
G001	PROJECT INFORMATION
G002	GENERAL ACCESSIBILITY
G003	INTERIOR ACCESSIBILITY

LIFE SAFETY

LS101	LEVEL 1 - FLOOR PLAN

ARCHITECTURE

A101	FLOOR PLAN
A102	REFLECTED CEILING PLAN
A103	FINISH PLAN
A401	INTERIOR ELEVATIONS
A402	MILLWORK DETAILS
A601	SCHEDULES AND DETAILS

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

ARCHITECT:	MICHAEL KRESS
LICENSE NO.	######

STATE OF MISSOURI
THOMAS JASON PROBSTILE
NUMBER A-2002017812
ARCHITECT
5/17/2024

SEAL

ACADEMY BANK LEE'S SUMMIT

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

FOR CONSTRUCTION

ISSUE DATE:	05.17.2024
REV DESCRIPTION	DATE

PROJECT NO.	16014
DRAWN BY:	CG
CHK'D BY:	GB

SHEET TITLE

PROJECT INFORMATION

G001

5/17/2024 2:12:55 PM

ACOUST	ACOUSTICAL	EQUIP	EQUIPMENT	MECH	MECHANICAL	SCHED	SCHEDULE
ACT	ACOUSTICAL CEILING TILE	EW	EACH WAY	MEP	MECHANICAL, ELECTRICAL & PLUMBING	SECT	SECTION
AD	AREA DRAIN	EWC	ELECTRIC WATER COOLER	MFG	MANUFACTURING	SF (SQ FT)	SQUARE FOOT (FEET)
ADJ	ADJUSTABLE	EXIST	EXISTING	MFR	MANUFACTURER	SH	SHOWER
AFF	ABOVE FINISHED FLOOR	EXP	EXPANSION	MH	MANHOLE	SHT	SHEET
AHU	AIR HANDLING UNIT (RE: MECH)	EXT	EXTERIOR	MILL	MILLWORK	SHTH	SHEATHING
ALUM	ALUMINUM	FBD	FIBER BOARD	MIN	MINIMUM	SIM	SIMILAR
AMB	AIR-MOISTURE BARRIER	FBO	FURNISHED BY OTHERS	MIR	MIRROR	SP	SPACING
ANC	ANCHOR	FD	FLOOR DRAIN	MISC	MISCELLANEOUS	SPEC	SPECIFICATION
ANOD	ANODIZED	FDN	FOUNDATION	MLD	MOLDING	SP HD	SPRINKLER HEAD
AP	ACCESS PANEL	FE	FIRE EXTINGUISHER	MO	MASONRY OPENING	SPKR	SPEAKER
APPROX	APPROXIMATE	FEC	FIRE EXTINGUISHER & CABINET	MTD	MOUNTED	SQ	SQUARE
ARCH	ARCHITECT(URAL)	FFE	FURNITURE, FIXTURES & EQUIPMENT	MTL	METAL	SS	STAINLESS STEEL
ASPH	ASPHALT			MUL	MULLION	STD	STANDARD
ASSY	ASSEMBLY	FHC	FIRE HOSE CABINET	N/A	NOT APPLICABLE	STL	STEEL
A/V	AUDIO/VISUAL	FIN	FINISH	NIC	NOT IN CONTRACT	STO	STORAGE
BD	BOARD	FVC	FIRE VALVE CABINET	NO	NUMBER	STRUCT	STRUCTURE/STRUCTURAL
BFG	BELOW FINISHED GRADE	FLUOR	FLUORESCENT	NOM	NOMINAL	SUSP	SUSPENDED
BFF	BELOW FINISHED FLOOR	FLR	FLOOR	NPS	NATIONAL PIPE STANDARD	SY (SQ YD)	SQUARE YARD(S)
BLDG	BUILDING	FOC	FACE OF CONCRETE	NTS	NOT TO SCALE	SYS	SYSTEM
BLKG	BLOCKING	FOF	FACE OF FINISH	OC	ON CENTER	T	TREAD
BM	BEAM	FOS	FACE OF STUD	OD	OUTSIDE DIAMETER	T&B	TOP & BOTTOM
BOT	BOTTOM	FS	FLOOR SINK	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	T&G	TOUNGE AND GROOVE
BRG	BEARING	FR(FRM)	FRAME			TBD	TO BE DETERMINED
BRK	BRICK	FRP	FIBERGLASS REINFORCED PLASTIC	OFF	OFFICE	TEL	TELEPHONE
BRKT	BRACKET	FRT	FIRE RETARDANT TREATED	OH	OVERHEAD / OPPOSITE HAND	TEMP	TEMPERED
BS	BOTH SIDES	FS	FLOOR SINK	OPNG	OPENING	TOC	TOP OF CONCRETE
B/T	BETWEEN	FSE	FOOD SERVICE EQUIPMENT	OPP	OPPOSITE	TOD	TOP OF DECK
CAB	CABINET	FT	FOOT OR FEET	OPT	OPTIONAL	TOP	TOP OF PARAPET
CB	CHALK BOARD	FTG	FOOTING	ORD	OVERFLOW ROOF DRAIN	TOS	TOP OF SLAB / TOP OF STEEL
CG	CORNER GUARD	FURR	FURRING	OTS	OPEN TO STRUCTURE	TOW	TOP OF WALL
CI	CAST IRON	FV	FIELD VERIFY	OZ	OUNCE	TV	TELEVISION
CIP	CAST-IN-PLACE	GA	GAUGE	PA	PUBLIC ADDRESS	TYP	TYPICAL
CJ	CONTROL JOINT	GALV	GALVANIZED	PBD	PARTICLE BOARD	UNO	UNLESS NOTED OTHERWISE
CL	CENTER LINE	GC	GENERAL CONTRACTOR	PC	PRECAST CONCRETE	VB (VPR BR)	VAPOR BARRIER
CLG	CEILING	GL	GLASS	PL	PLATE	VCT	VINYL COMPOSITION TILE
CLO	CLOSET	GWB	GYPSUM WALL BOARD	PLAM	PLASTIC LAMINATE	VERT	VERTICAL
CMU	CONCRETE MASONRY UNIT	HB	HOSE BIBB	PLAS	PLASTER	VEST	VESTIBULE
COL	COLUMN	HC	HOLLOW CORE	PLBG	PLUMBING	W/	WITH
CONC	CONCRETE	HCP	HANDICAPPED	PLYWD	PLYWOOD	W/O	WITHOUT
CONN	CONNECTION	HD	HEAD	PNL	PANEL	WC	WATER CLOSET
CONSTR	CONSTRUCT(ION)	HDW	HARDWARE	POL	POLISHED	WD	WOOD
CONT	CONTINUOUS	HDWD	HARDWOOD	PR	PAIR	WDW	WINDOW
CONTR	CONTRACTOR	HM	HOLLOW METAL	PREFIN	PREFINISHED	WH	WATER HEATER
CORR	CORRIDOR	HORIZ	HORIZONTAL	PREP	PREPARE / PREPARATION	WP	WATERPROOFING / WATERPROOF
CTR	CENTER	HR	HOUR	PSS	PHOTOSTROBE SYNC PLATE	WT	WEIGHT
DBL	DOUBLE	HT	HEIGHT	PT	POINT	WWF	WELDED WIRE FABRIC
DEMO	DEMOLITION	HVAC	HEATING, VENTILATION & AIR CONDITIONING	PTD	PAINTED		
DEPT	DEPARTMENT			QT	QUARRY TILE		
DF	DRINKING FOUNTAIN	ID	INSIDE DIAMETER / DIMENSION	QTY	QUANTITY		
DIA	DIAMETER	IN	INCH	R	RISER OR RADIUS		
DIM	DIMENSION	INSUL	INSULATION / INSULATE	RA	RETURN AIR		
DN	DOWN	INT	INTERIOR	RCP	REFLECTED CEILING PLAN		
DR	DOOR	JAN	JANITOR	RD	ROOF DRAIN		
DS	DOWNSPOUT	JST	JOIST	RE	REFERENCE		
DTL	DETAIL	JT	JOINT	RECPT	RECEPTACLE		
DWG(S)	DRAWING(S)	KIT	KITCHEN	REFL	REFLECTED / REFLECTING		
EA	EACH	KO	KNOCKOUT	REINF	REINFORCED / REINFORCING		
EF	EXHAUST FAN	L	LONG / LENGTH	RELOC	RELOCATE		
EJ	EXPANSION JOINT	LAM	LAMINATED	REQ'D	REQUIRED		
EL	ELEVATION	LAV	LAVATORY	REV	REVISION / REVERSED		
ELEC	ELECTRICAL	LLH	LONG LEG HORIZONTAL	RM	ROOM		
ELEV	ELEVATOR	LLV	LONG LEG VERTICAL	RO	ROUGH OPENING		
ENG	ELECTRONIC NEWS GATHERING	LT(LTG)	LIGHT(LIGHTING)	RTU	ROOF TOP UNIT		
EOS	EDGE OF SLAB	M	METER	SAN	SANITARY		
EQ	EQUAL	MAS	MASONRY	SC	SOLID CORE		
		MAX	MAXIMUM				

STANDARD ABBREVIATIONS A5

BREAK LINE
BUILDING SECTION (1/A101 SIM)
WALL SECTION (1/A101 SIM)
DETAIL (1/A101 SIM)
DETAIL NUMBER / SHEET NUMBER
DETAIL REFERENCE (1/A101)
ELEVATION NUMBER / SHEET NUMBER (1/A101)
LEVEL ELEVATION (LEVEL 100'-0")
COLUMN GRID DESIGNATION (A)
MATCHLINE ADJACENT REFERENCE (MATCH LINE RE: A1/A101)
1 - HR RATED
2 - HR RATED
3 - HR RATED

ROOM NAME / ROOM NUMBER (ROOM NAME 101)
DOOR NUMBER (101)
CEILING TYPE / CEILING HEIGHT (GWB 8'-0")
INTERIOR PARTITION TYPE (1a)
GLAZING TYPE (XX)
DETAIL KEYNOTE (0)
CONSTRUCTION NOTE (0)
REVISION NUMBER (1)
SURFACE MOUNTED FIRE EXTINGUISHER CABINET (FEC)
SEMI RECESSED FIRE EXTINGUISHER CABINET (FEC)
FULLY RECESSED FIRE EXTINGUISHER CABINET (FEC)
EXISTING CONSTRUCTION
NEW CONSTRUCTION
DEMOLISHED CONSTRUCTION

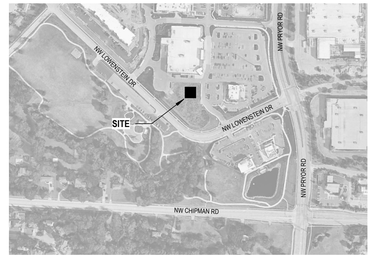
NORTH ARROW (NORTH)
EXISTING DOOR
NEW DOOR
DEMOLISHED DOOR

SYMBOLS LEGEND A2

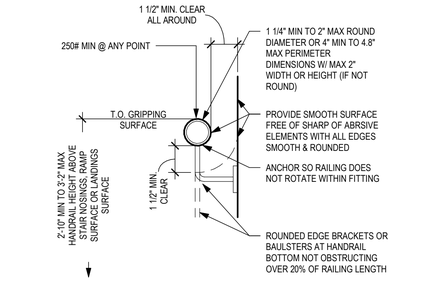
PROJECT INFORMATION

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"
ADDRESS	2070 NW LOWENSTEIN DRIVE, SUITE A, LEE'S SUMMIT, MO 64081
ZONING	PMIX PLANNED MIXED USE
LOT AREA	0.6 ACRES

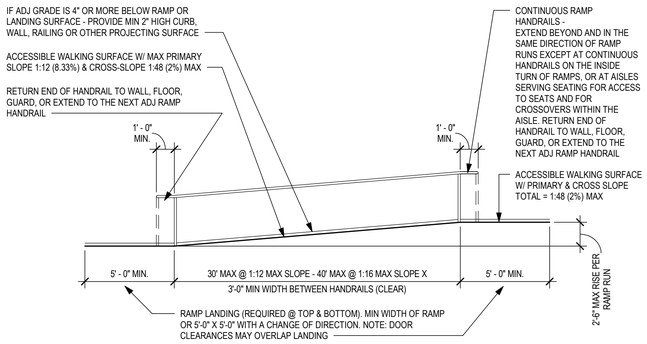


PROJECT INFORMATION A1

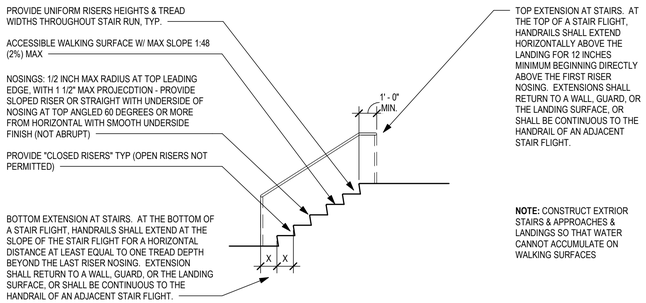


NOTE:
PROVIDE HANDRAILS AT BOTH SIDES OF STAIRS OR RAMPS (EXCEPT IF RAMP ISLESS THAN 6" VERTICAL RISE OR 6'-0" HORIZONTAL RUN) PROVIDE CONTINUOUS HANDRAILS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN AND ON THE INSIDE OF SWITCHBACK OR DOGLEG RAMPS OR STAIRS BETWEEN FLIGHTS OR RUNS (EXCEPT AT HANDRAILS IN AISLES SERVING SEATING)

ACCESSIBLE RAMPS (INTERIOR OR EXTERIOR)



ACCESSIBLE STAIRS (INTERIOR OR EXTERIOR)



NOTE: CONSTRUCT EXTRIOR STAIRS & APPROACHES & LANDINGS SO THAT WATER CANNOT ACCUMULATE ON WALKING SURFACES

ACCESSIBLE RAMP, STAIR & HANDRAILS | D5

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

COMPLY WITH REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) EVEN IF NOT REQUIRED BY BLDG CODES, REGULATIONS OR ORDINANCES (ADA IS A FEDERAL LAW), AND AS INDICATED ON THESE DRAWINGS:

ACCESSIBLE ROUTE:
PROVIDE AN ACCESSIBLE ROUTE CONNECTING ALL ACCESSIBLE SPACES AND ELEMENTS, INCLUDING WALKING SURFACES, RAMPS & CURB-RAMPS (EXCLUDING THE FLARED SIDES), DOORS & DOORWAYS, AND/OR ELEVATORS & PLATFORM LIFTS. AN ACCESSIBLE ROUTE MAY BE LOCATED AT EXTERIOR WALKS, AISLES, HALLS, CORRIDORS, SKYWALKS OR TUNNELS

ACCESSIBLE WALKING SURFACES: PROVIDE STABLE, FIRM, & SLIP-RESISTANT SURFACE FINISHES W/ SURFACE OPENINGS (GRATINGS) NOT TO PERMIT PASSAGE OF A 1/2" DIAMETER SPHERE - WITH LONGEST DIMENSION PERPENDICULAR TO DIRECTION OF TRAVEL

MINIMUM WHEELCHAIR TURNING SPACE CAN INCLUDE ALLOWABLE FIXTURE KNEE & TOE CLEARANCES UNO. DOOR SWINGS ARE PERMITTED TO OVERLAP TURNING SPACE UNO.

ACCESSIBLE BLDG ENTRANCES:
PROVIDE 60% (MIN) OF ALL PUBLIC BLDG ENTRANCES (EXCLUDING THOSE FOR LOADING OR SERVICE USE) ACCESSIBLE FROM: ACCESSIBLE PARKING, A PUBLIC TRANSPORTATION STOP, OR FROM A PASSENGER LOADING ZONE (AS APPLICABLE) WITHOUT STEPS OR ABRUPT CHANGES IN LEVEL.

PROVIDE ONE (1 - MIN) ACCESSIBLE BLDG ENTRANCE AT THE GROUND FLOOR LEVEL AND ONE (1 - MIN) ACCESSIBLE ENTRANCE TO EACH PROPOSED TENANT SPACE IN A MULTIPLE-TENANT BLDG.

PROVIDE ACCESSIBLE ENTRANCE AT SERVICE OR LOADING ENTRIES (NOT INTENDED FOR ENTRANCE BY THE PUBLIC) IF THAT IS THE ONLY ENTRANCE TO A SPACE OR BUILDING.

MULTI-LEVEL BUILDINGS: PROVIDE ONE (MIN) ACCESSIBLE ROUTE (INCLUDING AN ELEVATOR TO CONNECT EACH BUILDING LEVEL ABOVE OR BELOW ACCESSIBLE LEVELS INCLUDING MEZZANINES) UNLESS THE FLOOR-AREA IS LESS THAN 3,000 SF AND DOES NOT INCLUDE 5 OR MORE MULTIPLE MERCANTILE (GROUP M) TENANTS, OR THE OFFICES OF HEALTH CARE PROVIDERS.

OPERABLE PARTS:
ACCESSIBLE OPERABLE PARTS INCLUDE CONTROLS AND OPERATING MECHANISMS (DOOR HARDWARE, WINDOW OPERATORS, DISPENSERS, LIGHT SWITCHES, CONVENIENCE OUTLETS, THERMOSTATS, ALARM CONTROLS, AND SIMILAR ELEMENTS).

PROVIDE AN ACCESSIBLE CLEAR-FLOOR SPACE AT ALL OPERATIONAL PARTS

OPERATION: BY USE OF 1 HAND WITH A SINGLE EFFORT WITHOUT TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST - WITH 5.0 POUNDS MAXIMUM OPERATIONAL FORCE. COMPLY WITH ALLOWABLE REACH RANGES FOR HEIGHT OF OPERABLE PARTS.

ACCESSIBLE DOOR & GATE REQUIREMENTS:
REVOLVING DOORS OR GATES ARE NOT ACCESSIBLE.

SECURITY & MAINTENANCE DOORS (INCLUDING SERVICE-ACCESS DOORS) DO NOT NEED TO COMPLY WITH ACCESSIBILITY REQUIREMENTS.

DOUBLE-LEAF DOORS OR GATES: ONLY ONE LEAF (MIN) MUST COMPLY WITH ACCESSIBILITY REQUIREMENTS

RECESSED DOORS: PROVIDE FORWARD APPROACH CLEARANCE WITH ANY OBSTRUCTION WITHIN 18 INCH OF LATCH SIDE OF DOORWAY PROJECTING MORE THAN 8 INCHES BEYOND THE FACE OF DOOR MEASURED PERPENDICULAR TO FACE OF DOOR

DOOR SURFACES: PROVIDE SMOOTH SURFACE WITHIN 0'-10" AFF ON PUSH-SIDE EXTENDING FULL WIDTH WITH MAX 1/16" BETWEEN SURFACE PLANE AND ANY PARTS (KICKPLATE). CAP CAVITIES FORMED BY KICKPLATES EXCEPT AT SLIDING DOORS, TEMPERED GLASS DOORS WITHOUT SIDE STILES WITH A BOTTOM RAIL WITH ITS TOP EDGE SLOPED 60° FROM HORIZONTAL OR MORE, OR AT DOORS NOT EXTENDING TO 0'-10" AFF

SIDELITES OR VISION LITES: AT DOORS AND SIDELITES ADJACENT TO DOORS WITH ONE OR MORE GLAZING PANELS PERMITTING VIEWING, PROVIDE BOTTOM EDGE OF AT LEAST ONE PANEL ON EITHER THE DOOR OR THE ADJACENT SIDELITE AT 43" MAX AFF, EXCEPT AT VISION LITES (ONLY) WITH THE LOWEST PART MORE THAN 66" AFF.

ACCESSIBLE DOOR & GATE HARDWARE:
PROVIDE ACCESSIBLE HARDWARE WITH AN EASY-TO-GRASP SHAPE COMPLYING WITH OPERABLE PARTS REQUIREMENTS (LEVERS PUSH/PULLS, OR PANIC DEVICES ARE ACCEPTABLE), MOUNTED BETWEEN 2'-10" AND 4'-0" AFF, WITH MAX PROJECTION (INTO REQUIRED MIN CLEARANCES) OF 4" BTWN 34 - 80" AFF

SLIDING DOOR/GATE HARDWARE: OPERABLE PARTS MUST BE EXPOSED AND USABLE FROM BOTH SIDES WHEN DOOR IS FULLY OPEN

DOOR/GATE CLOSERS: ADJUST UNITS TO PROVIDE 5 SECOND (MIN) TIME TO MOVE DOOR/GATE FROM 90° OPEN-POSITION TO 12° OPEN-POSITION.

DOOR/GATE SPRING-HINGES: ADJUST TO PROVIDE 1-1/2 SECOND MIN TIME TO MOVE DOOR/GATE FROM 70° OPEN-POSITION TO CLOSED-POSITION

OPENING-FORCE OF CLOSERS OR SPRING-HINGES: 5.0 LBS MAX @ INTERIOR HINGED, SLIDING OR FOLDING DOORS OR GATES (NOT APPLICABLE TO LATCH-BOLT RETRACTION FORCE AND NOT APPLICABLE TO OPENING FORCE AT FIRE-DOORS - TO BE AS REQD BY AJH)

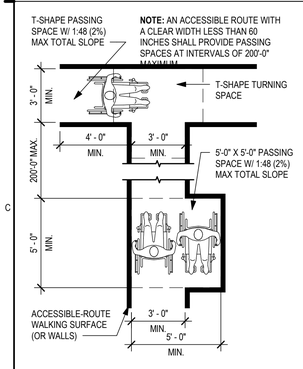
AUTOMATIC DOORS OR GATES:
REFERENCED STANDARDS: COMPLY WITH ANSI/BHMA A156.10. AND FOR POWER-ASSIST AND LOW-ENERGY DOORS, COMPLY WITH ANSI/BHMA A156.19 (UNLESS DOORS OR GATES ARE DESIGNED TO BE OPERATED ONLY BY SECURITY PERSONNEL)

COMPLY WITH ACCESSIBLE CLEAR-FLOOR SPACE, THRESHOLD / FLOOR-SURFACE, AND DOORS-IN- SERIES REQUIREMENTS.

MANUAL CONTROLS: COMPLY WITH "OPERABLE PARTS" REQMTS WITH THE CLEAR FLOOR SPACE ADJACENT TO THE CONTROL SWITCH LOCATED BEYOND THE DOOR/GATE SWING.

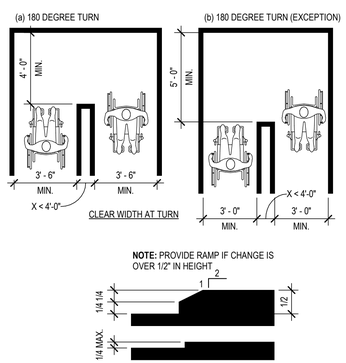
ACCESSIBLE WINDOWS:
PROVIDE OPERATIONAL PARTS LOCATED PER "OPERABLE PARTS" REQMTS W/ MIN ACCESSIBLE CLEAR-FLOOR SPACE ADJACENT TO THE WINDOW.
SPECIAL ACCESS (PLATFORM) LIFTS (INTERIOR OR EXTERIOR):
COMPLY WITH ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS, SECTION XX (WITH ACCESSIBLE KEY-CONTROLS IF LIFT TRAVEL AREA IS NOT ENCLOSED) AND AS FOLLOWS:
- MAX TRAVEL HEIGHT: 60 INCHES
- MIN CAPACITY: 400 POUNDS
- MIN PLATFORM SIZE: 30 X 48 INCH
- MAX SPEED: 20 FPM

ACCESSIBILITY NOTES | B1



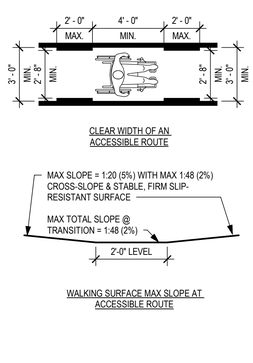
NOTE: AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60 INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200'-0" MAXIMUM

CLEAR WIDTH AT PASSING SPACES



CLEAR WIDTH AT TURN

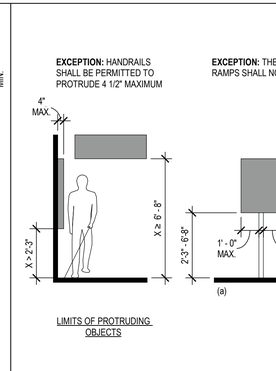
CHANGES IN LEVEL



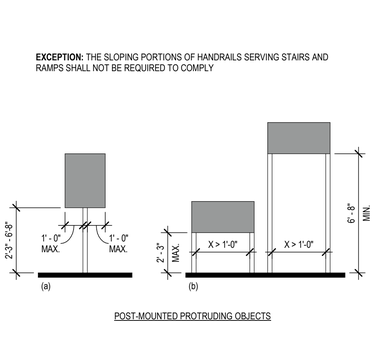
CLEAR WIDTH OF AN ACCESSIBLE ROUTE

WALKING SURFACE MAX SLOPE AT ACCESSIBLE ROUTE

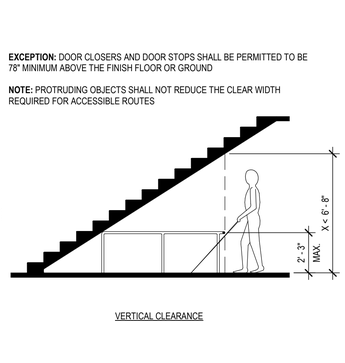
ACCESSIBLE ROUTES | C5



LIMITS OF PROTRUDING OBJECTS

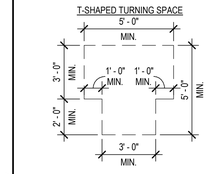


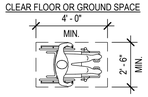
POST-MOUNTED PROTRUDING OBJECTS

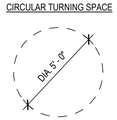


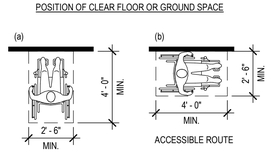
VERTICAL CLEARANCE

PROTRUDING OBJECT CLEARANCES | C3



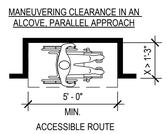


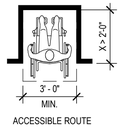




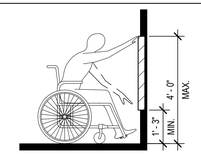
NOTE: UNLESS OTHERWISE SPECIFIED, CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT.

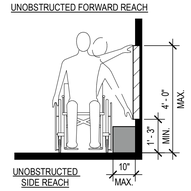
NOTE: ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE SHALL ADJOIN AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR OR GROUND SPACE.

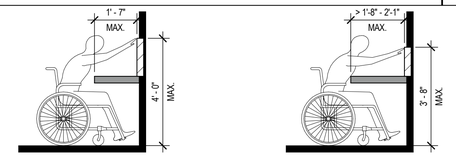




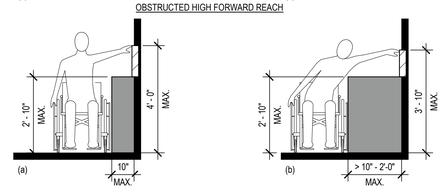
ACCESSIBLE FLOOR CLEARANCES | B5





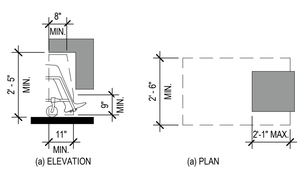


OBSTRUCTED HIGH FORWARD REACH

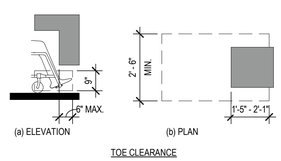


OBSTRUCTED HIGH SIDE REACH

ACCESSIBLE REACH CLEARANCES | B3

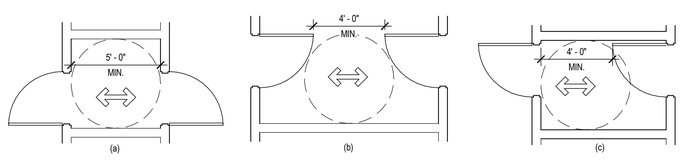


KNEE CLEARANCE

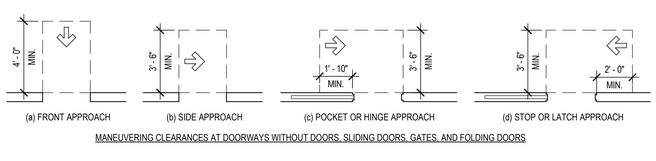


TOE CLEARANCE

KNEE AND TOE CLEARANCE | A5

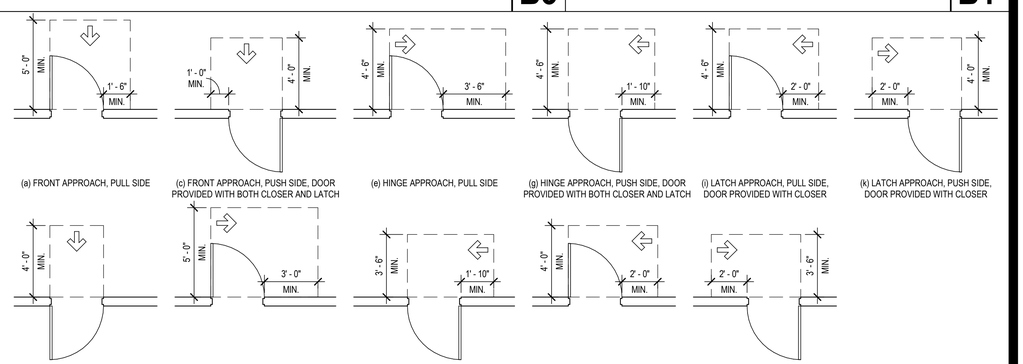


DOORS IN SERIES AND GATES IN SERIES



MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES, AND FOLDING DOORS

MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES



DOOR APPROACHES | A1

GENERATOR 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

ARCHITECT: MICHAEL KRESS
LICENSE NO. ######

STATE OF MISSOURI
THOMAS JASON PROSSTLE
NUMBER A-2002017812
ARCHITECT
5/17/2024

SEAL

ACADEMY BANK LEE'S SUMMIT

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

FOR CONSTRUCTION

ISSUE DATE: 05.17.2024

REV	DESCRIPTION	DATE

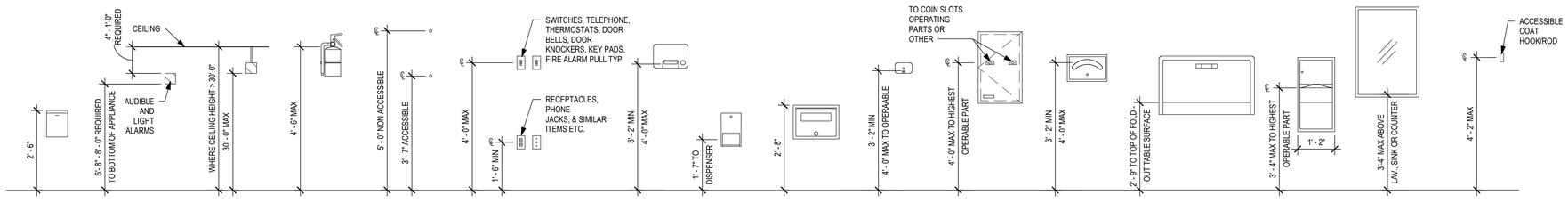
PROJECT NO. 16014
DRAWN BY: CG
CHK'D BY: GB

SHEET TITLE

GENERAL ACCESSIBILITY

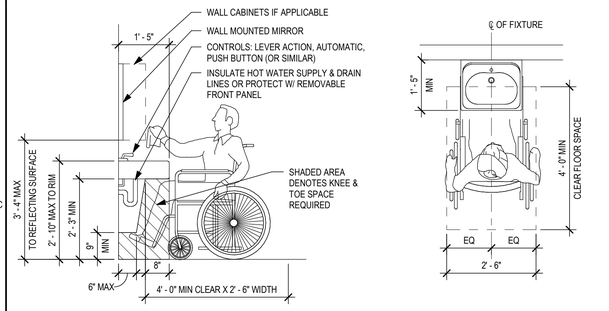
G002

5/17/2024 2:12:56 PM



ACCESSORY MOUNTING HEIGHTS | D1

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

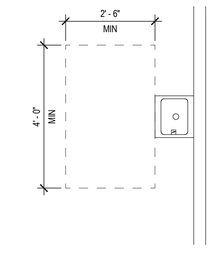


LAVATORIES SIDE VIEW

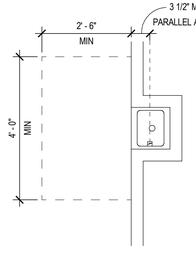
LAVATORIES PLAN VIEW

ACCESSIBILE LAVATORIES | C5

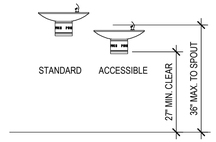
SCALE: 1/2" = 1'-0"



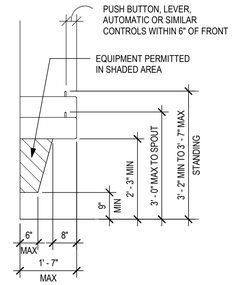
FREE-STANDING FOUNTAIN OR COOLER



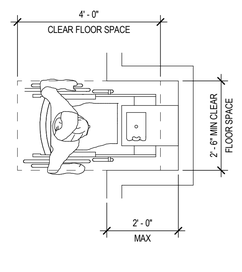
BUILT-IN FOUNTAIN OR COOLER



DRINKING FOUNTAIN - FRONT VIEW



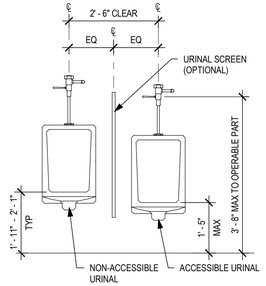
DRINKING FOUNTAIN - SIDE VIEW



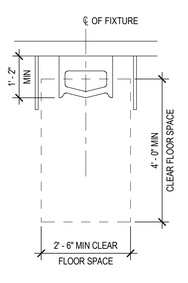
DRINKING FOUNTAIN - CLEAR FLOOR SPACE

ACCESSIBILE DRINKING FOUNTAINS | C2

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



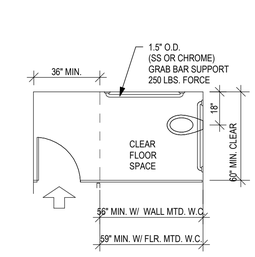
URINAL - FRONT VIEW



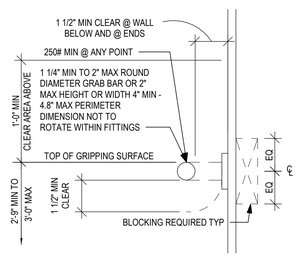
URINAL - CLEAR FLOOR SPACE PLAN VIEW

ACCESSIBILE URINALS | B5

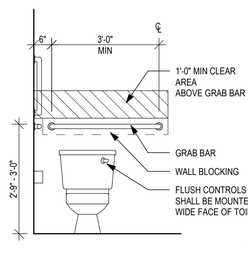
SCALE: 1/2" = 1'-0"



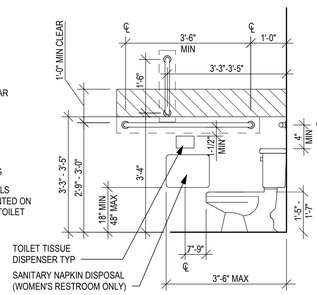
STANDARD STALL (END OF ROW)



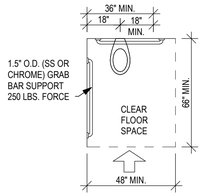
GRAB BAR DETAIL TYP

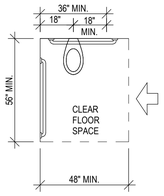


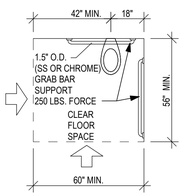
GRAB BAR @ BACK WALL OF WATER CLOSET



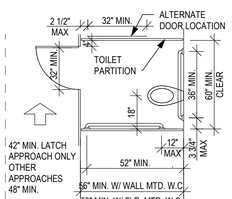
ACCESSORIES @ SIDE WALL OF WATER CLOSET







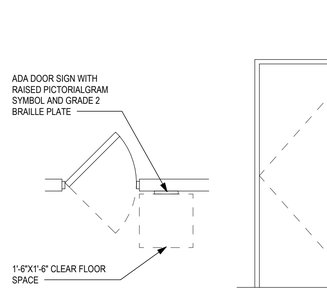
CLEAR FLOOR SPACE AT WATER CLOSETS



STANDARD STALL

TYPICAL WATER CLOSET DETAILS | A2

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



RESTROOM ACCESSIBLE SIGNAGE

TYPICAL SIGNAGE | A5

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

A. WATER CLOSET CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.

B. CONTROLS FOR FLUSHING OF WATER CLOSETS AND URINALS SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS, NO MORE THAN 42" A.F.F.

C. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS OF FORCE.

D. IF SELF-CLOSING VALVES ARE USED, THEY SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS.

E. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL NOT BE OF THE TYPE REQUIRING TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST (OPERABLE WITH ONE HAND SUCH AS LEVER-OPERATED) AND AN OPERATING FORCE NOT EXCEEDING 5 POUNDS OF FORCE.

F. INSULATE ALL PLUMBING LINES AND DRAINS AT LAVATORIES.

ACCESSIBLE ROUTE W/ IN BUILDING
SPACES W/ IN BUILDINGS: PROVIDE AN ACCESSIBLE ROUTE TO EACH SPACE OR PORTION W/ IN A BUILDING, TO ACCESSIBLE BUILDING ENTRANCES - NOT PASSING THROUGH KITCHENS, STORAGE ROOMS, RESTROOMS CLOSETS OR SIMILAR SPACES (IF ONLY ONE ACCESSIBLE-ROUTE IS PROVIDED).

CONSTRUCT EMPLOYEE WORK AREA, SPACES & ELEMENTS SO THAT INDIVIDUALS W/ DISABILITIES CAN APPROACH, ENTER, & EXIT THE WORK AREA. (EXCEPT AT WORK-AREAS LESS THAN 150 SF & ELEVATED SEVEN (7) INCHES OR MORE ABOVE GROUND OR FINISH FLOOR - WHEN THE RAISED ELEVATION IS ESSENTIAL TO THE FUNCTION OF THE WORK - AREA - PER IBC).

PROVIDE ACCESSIBLE ROUTES AT ALL COMMON-USE CIRCULATION PATHS W/ IN EMPLOYEE WORK AREAS UNLESS WORK AREA IS LESS THAN 300 SF & DEFINED BY PERMANENTLY INSTALLED PARTITIONS, COUNTERS, CASEWORK OR FURNISHINGS

ACCESSIBILITY NOT REQUIRED (W/ IN A BUILDING): TO NON-OCCUPIABLE SPACES OR TO SERVICE-ONLY AREAS INCLUDING CATWALKS, CRAWL-SPACES, FREIGHT (NON-PASSENGER) ELEVATORS, ELEVATOR PITS, OR TO MECH PENTHOUSES.

ACCESSIBLE-ROUTE W/ IN BUILDING
ACCESSIBLE-ROUTES MAY CONSIST OF ONE OR MORE OF THESE COMPONENTS: WALKING SURFACES, RAMPS, DOORS & DOORWAYS, ELEVATORS & PLATFORM LIFTS.

MIN CORRIDOR WIDTH: 3'8"

MIN WIDTH OF ACCESS AISLES: 3'-0"

CARPETED WALKING SURFACES: BROADLOOM OR CARPET-TILE W/ FIRM CUSHION/PAD (OR W/O CUSHION & PAD) W/ LEVEL LOOP, TEXTURED LOOP, LEVEL CUT, OR LEVEL CUT/UNCUT PILE TEXTURE W/ 1/2 INCH MAX PILE-HEIGHT. SECURELY ATTACH TO SUBSTRATE & PROVIDE BEVELED EDGE-TRIM ALONG ENTIRE LENGTH OF EXPOSED EDGE PER ABOVE.

AREA-OF-RESCUE ASSISTANCE
PROVIDE AN "AREA-OF-RESCUE-ASSISTANCE" AT NON-ACCESSIBLE EXIT-DISCHARGE DOORS - EXCEPT IN BUILDINGS W/ A SUPERVISED AUTOMATIC FIRE-SUPPRESSION SYSTEM.

MIN SIZE: PROVIDE MIN OF TWO (2) EA 2'-6" X 4'-0" AREAS OR ONE (1) EACH PER 200 OCC PER STORY SERVED NOT ENCROACHING ON ANY REQUIRED EXIT WIDTH

TOILET ROOMS OR COMPARTMENTS
UNI-SEX TOILET ROOM: PROVIDE AN ACCESSIBLE FACILITY W/ A SINGLE WATER-CLOSET & LAVATORY IN ANY MERCANTILE OR ASSEMBLY OCCUPANCIES WHERE A TOTAL OF SIX (6) OR MORE MALE & FEMALE WATER-CLOSETS ARE REQUIRED (PER IBC)

PROVIDE UNI-SEX & SINGLE-USE TOILET ROOMS W/ DOOR LOCKING FROM INSIDE

WATER-CLOSET COMPARTMENTS: PROVIDE A MIN OF ONE (1) WHEELCHAIR-ACCESSIBLE COMPARTMENT & WHEN OVER SIX (6) WATER-CLOSETS + URINALS ARE PROVIDED IN A TOILET ROOM, PROVIDE ONE (1) TO BE AMBULATORY-ACCESSIBLE IN ADDITION TO THE WHEELCHAIR-ACCESSIBLE UNIT.

SINKS: PROVIDE NO LESS THAN ONE (1) ACCESSIBLE SINK (OR 5% OF TOTAL) WHERE PROVIDED (MOP OR SERVICE-SINKS ARE NOT REQUIRED TO BE ACCESSIBLE)

DRINKING FOUNTAINS
IF ONLY ONE DRINKING FOUNTAIN IS PROVIDED IN A SPACE OR BUILDING, PROVIDE A "DUAL HI-LOW" TYPE UNIT ACCESSIBLE TO BOTH WHEELCHAIR USERS & TO PERSONS W/ DIFFICULTY BENDING OR STOOPING (STANDARD HEIGHT UNIT) OR OTHER MEANS TO ACHIEVE EQUIVALENT ACCESSIBILITY FOR BOTH (PROVIDING AN ACCESSIBLE WATER COOLER, FOR EXAMPLE).
PROVIDE DRINKING FOUNTAINS IN ALCOVE OUT OF COMMON PATH OF TRAVEL SPACING BETWEEN DRINKING FOUNTAINS: 2'-3" (27") MIN

ACCESSIBLE ELEVATORS
MIN CAR SIZE: DEPTH: 4'-3" TO FRONT WALL - 4'-6" TO DOOR
WIDTH: 50 OR MORE OCC: 6'-8" MIN (STRETCHER TYPE)
UNDER 50 OCC: 4'-6" MIN

MIN DOOR WIDTH: 50 OR MORE OCC: 3'-6" MIN
UNDER 50 OCC: 2'-10" MIN

HANDRAIL AT REAR: LOCATE B/T 2'-6" TO 2'-10" AFF

ELEVATOR CONTROLS:
LOCATE BETWEEN 2'-11" MIN & 4'-6" AFF MAX
PROVIDE EMERGENCY PHONE @ 4'-0" AFF MAX W/ 2'-5" MIN CORD LENGTH
HALL-CALL BUTTONS: CENTER AT 3'-5" AFF
HALL LANTERNS: 6'-0" (72 INCH) AFF - VISUAL & AUDIBLE
FLOOR INDICATOR SIGNS: 2" HIGH CONTRASTING LETTER SIGN W/ BRAILLE ON SIDE OF DOOR JAMB AT 60" AFF

ACCESSIBLE SEATING
WHEN PROVIDED AT FIXED OR BUILT-IN TABLES, COUNTERS OR WORK SURFACES, PROVIDE 5% MIN BUT NOT LESS THAN ONE (1) ACCESSIBLE SEATING, DISTRIBUTED THROUGHOUT.

POINT-OF-SALE (POS) OR SERVICE COUNTERS: PROVIDE NOT LESS THAN ONE (1) UNIT TO BE ACCESSIBLE DISPERSED THROUGHOUT IF COUNTERS ARE DISPERSED.

SIGNAGE
REQUIRED ACCESSIBLE SIGNS (MIN) EXCEPT AT BUILDING DIRECTORIES, MENU BOARDS, OR TEMPORARY SIGNS PROVIDE ACCESSIBLE SIGNS AS FOLLOWS:

ACCESSIBLE ENTRANCES: PROVIDE A 4 X 4" ACCESSIBILITY DECAL AT ALL ACCESSIBLE PUBLIC ENTRANCE DOORS CENTERED AT 60" AFF.

NON-ACCESSIBLE PUBLIC ENTRANCES: PROVIDE DIRECTIONAL SIGNS INDICATING LOCATION OF NEAREST ACCESSIBLE ENTRANCE.

NON-ACCESSIBLE TOILET ROOMS: PROVIDE DIRECTIONAL SIGNS INDICATING LOCATION OF NEAREST ACCESSIBLE UNITS.

ROOM (OR SPACE) SIGNS (INCLUDING TOILET ROOMS): PROVIDE RAISED PICTOGRAMS, TACTILE CHARACTERS & BRAILLE TEXT.

ACCEPTABLE CHARACTERS: UPPER-CASE, LOWER-CASE, OR A COMBINATION OF BOTH IN A SANS-SERIF CONVENTIONAL STYLE - NO ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE OR OTHER UNUSUAL FORMS

FINISH & CONTRAST: NON-GLARE W/ EITHER LIGHT CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND

ILLUMINATION LEVEL AT ACCESSIBLE SIGNS: MIN 10 FOOTCANDLES

PROVIDE CLEAR FLOOR AREA OF 18 X 18 INCHES CENTERED ON TACTILE CHARACTER SIGNS BEYOND ARC OF DOOR SWING FROM CLOSED TO 45 DEGREE OPEN POSITION

BRAILLE: CONTRACTED (GRADE 2) W/ INDICATION OF AN UPPERCASE LETTER ONLY BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS, & NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, OR ACRONYM.

ALARMS
IF EMERGENCY WARNING SYSTEMS ARE PROVIDED, PROVIDE BOTH AUDIBLE & VISUAL ALARMS IN ANY COMMON-USE AREAS, (INCLUDING BUT NOT LIMITED TO RESTROOMS, MEETING ROOMS, HALLWAYS, & LOBBIES). PERMANENTLY CONNECT ALARM SYSTEMS TO THE BUILDING ELECTRICAL POWER & LIGHTING SYSTEM AS APPROPRIATE.

IF AUDIBLE ALARMS ARE PROVIDED, THEY MUST PRODUCE SOUND EXCEEDING THE PREVAILING EQUIVALENT SOUND LEVEL OF A SPACE BY AT LEAST 15 dbA OR EXCEED ANY MAX SOUND LEVEL W/ A DURATION OF 60 SECONDS BY 5 dbA, WHICHEVER IS LOUDER (NOT EXCEEDING 120dbA).

IF VISUAL ALARMS ARE PROVIDED, PROVIDE UNFILTERED OR CLEAR-FILTERED WHITE XENON-STROBE TYPE LAMPS OR EQUIVALENT, W/ 0.2 SECOND MAX PULSE DURATION & MAX DUTY CYCLE OF 40 PERCENT, PROVIDING A MIN BRIGHTNESS INTENSITY OF 75 CANDELA W/ A FLASH RATE BETWEEN 1 & 3 Hz. LOCATE UNITS NO MORE THAN 6'-10" (80") AFF OR 6" BELOW CEILING (WHICHEVER IS LOWER). LOCATE 50 FEET MAX FROM ANY POINT W/ IN A SPACE OR COMMON CORRIDOR, OR IN LARGE SPACES OVER 100 FEET ACROSS (SUCH AS AUDITORIUMS) W/O OBSTRUCTIONS 6 FT AFF, LOCATE AROUND ROOM PERIMETER AT MAX 100 FT CENTERS.

INT. ACCESSIBILITY NOTES | A1

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ARCHITECT: MICHAEL KRESS
LICENSE NO. ######

STATE OF MISSOURI
THOMAS JASON PROBSTLE
NUMBER A-2002017812
ARCHITECT
5/17/2024

SEAL

ACADEMY BANK LEE'S SUMMIT

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

FOR CONSTRUCTION

ISSUE DATE:	05.17.2024
REV DESCRIPTION	DATE

PROJECT NO. 16014
DRAWN BY: CG
CHK'D BY: GB

SHEET TITLE

INTERIOR ACCESSIBILITY

G003

5/17/2024 2:12:57 PM

ALL APPLICABLE CODES: ALL UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS AND DRAWINGS AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS OF ALL GOVERNING BODIES INVOLVED. ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER 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 PLUMBING CODE
MECHANICAL CODE:	2018 INTERNATIONAL MECHANICAL CODE
GAS CODE:	2018 INTERNATIONAL FUEL GAS CODE
ELECTRICAL CODE:	2017 INTERNATIONAL ELECTRICAL CODE
FIRE CODE:	2018 INTERNATIONAL FIRE CODE
ENERGY CODE:	2018 INTERNATIONAL ENERGY CONSERVATION CODE

Use and Occupancy Classification: (Section 304)	B - BUSINESS	
Construction Type: (Table 602)	V-B (EXISTING NO CHANGE)	
Automatic Sprinklers:	NO	
Actual Gross Building Area:	DEMISED TENANT SPACE - 1,743 SF	
Occupant Load	TENANT SPACE: 1,743 SF / 150 GROSS =	11 OCC.
	INCREASED OCC LOAD PER 1004.5.1 =	9 OCC.
	TOTAL:	20 OCC.
Exits Required: (Table 1006.2(1))	20 OCC < 49 OCC = 1 EXIT REQUIRED	
Exits Provided:	2	

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES:

BUSINESS CLASSIFICATION (IBC TABLE 2902.1)

OCCUPANCY = 10 EA — 10 MALE / 10 FEMALE

WATER CLOSETS
UNISEX
REQ'D: 1
PROVIDED: 1 (PER IBC 2902.2 EXCEPTION 4. SEPARATE FACILITIES SHALL NOT BE REQUIRED IN BUSINESS OCCUPANCIES IN WHICH THE MAXIMUM OCCUPANT LOAD IS 25 OR FEWER)

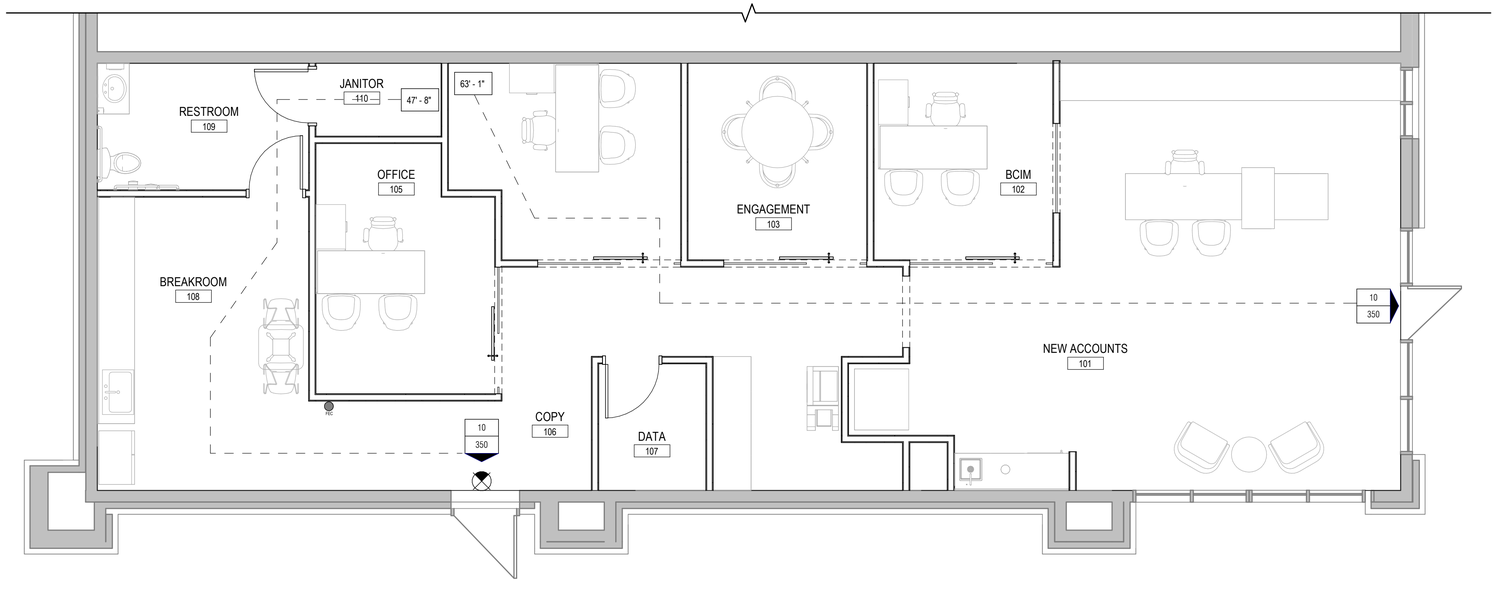
LAVATORIES
UNISEX
REQ'D: 1
PROVIDED: 1

DRINKING FOUNTAINS (1 PER 100)
REQ'D: 1
PROVIDED: 0 (WATER BOTTLES PROVIDED)

OTHER
REQ'D: 1 SERVICE SINK
PROVIDED: 1 SERVICE SINK

LEGEND:

- XXX / XX — OCCUPANTS EXITING / OCCUPANT CAPACITY
- EXIT SIGNAGE
- X'-X" — TRAVEL DISTANCE
- SCOPE OF WORK BOX
- FEC — FULLY RECESSED FIRE EXTINGUISHER CABINET



NORTH

LIFE SAFETY PLAN | **A2**
SCALE: 1/4" = 1'-0"

LIFE SAFETY LEGEND | **A1**
SCALE: 1/4" = 1'-0"

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STATE OF MISSOURI — THOMAS JASON PROBSTLE — NUMBER A-2002017012 — ARCHITECT
5/17/2024

SEAL

ACADEMY BANK
LEE'S SUMMIT

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

FOR CONSTRUCTION

ISSUE DATE:	**05.17.2024**

REV	DESCRIPTION	DATE

PROJECT NO.	**16014**
DRAWN BY:	**CH**
CHK'D BY:	**PB**

SHEET TITLE
LEVEL 1 - FLOOR PLAN

LS101

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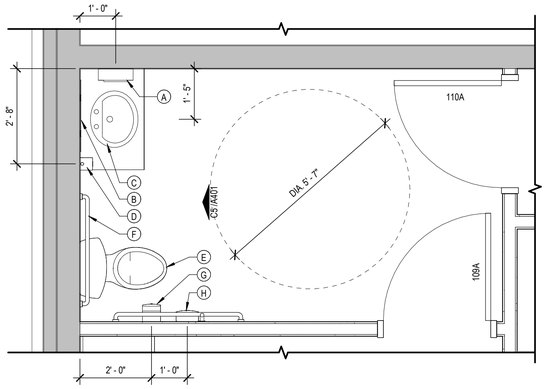
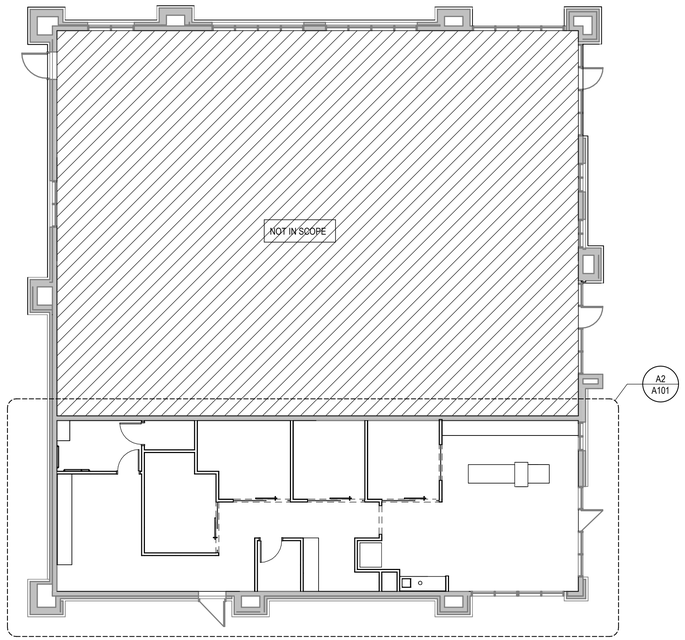


ENLARGED RESTROOM PLAN | C4

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



NORTH

SHELL BUILDING PLAN | C2

SCALE: 1" = 10'-0"

FLOOR PLAN GENERAL NOTES

A. THE CONTRACTOR SHALL TAKE PRECAUTION DURING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING ITEMS TO REMAIN. ANY DAMANGE DONE TO EXISTING ITEMS DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGIINAL 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.*

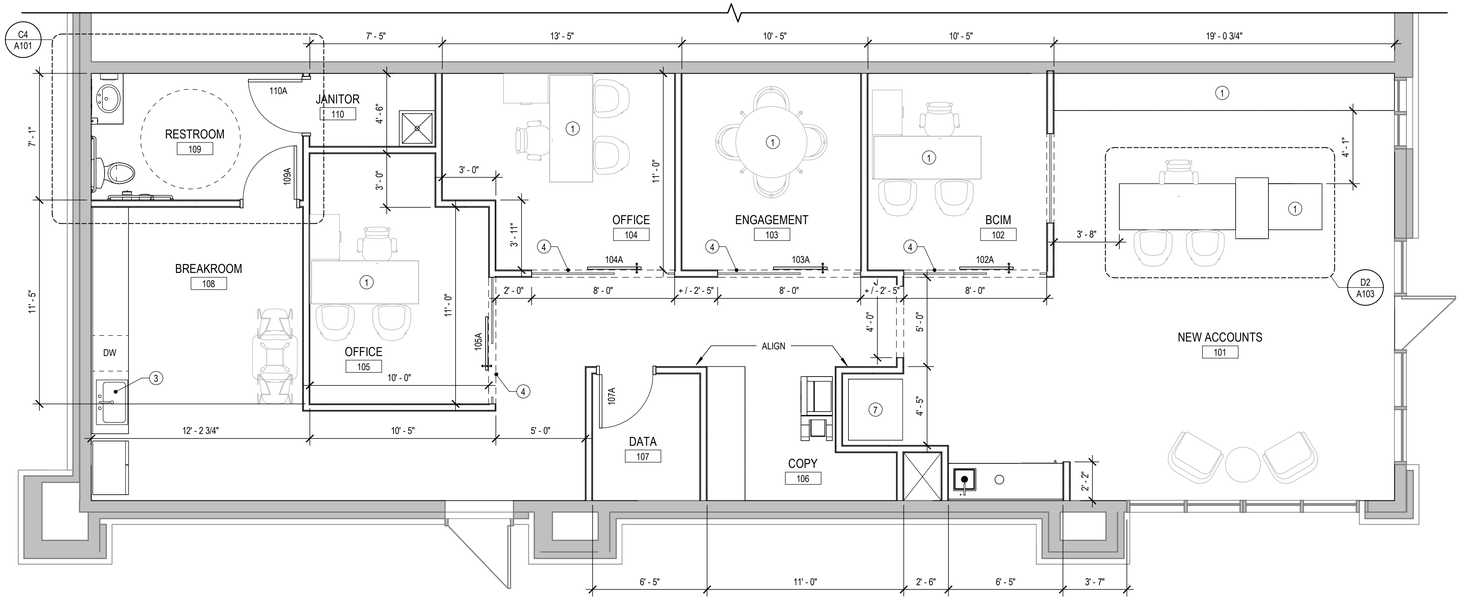
I. *ALL WALL TYPES TO BE A1 U.N.O.*

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



NORTH

T.I. FLOOR PLAN | A2

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

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FOR CONSTRUCTION

ISSUE DATE: 05.17.2024

REV	DESCRIPTION	DATE

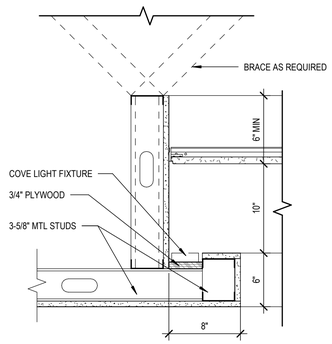
PROJECT NO. 16014
DRAWN BY: JV
CHK'D BY: GB

SHEET TITLE

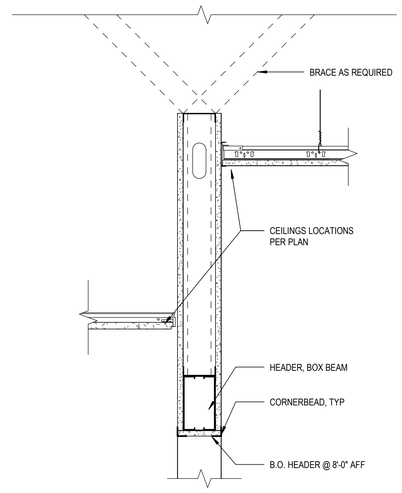
FLOOR PLAN

A101

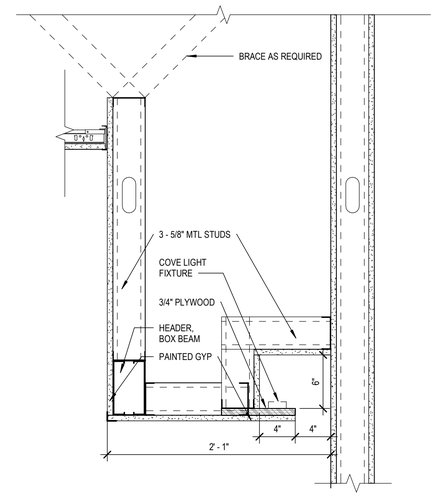
5/17/2024 2:12:39 PM



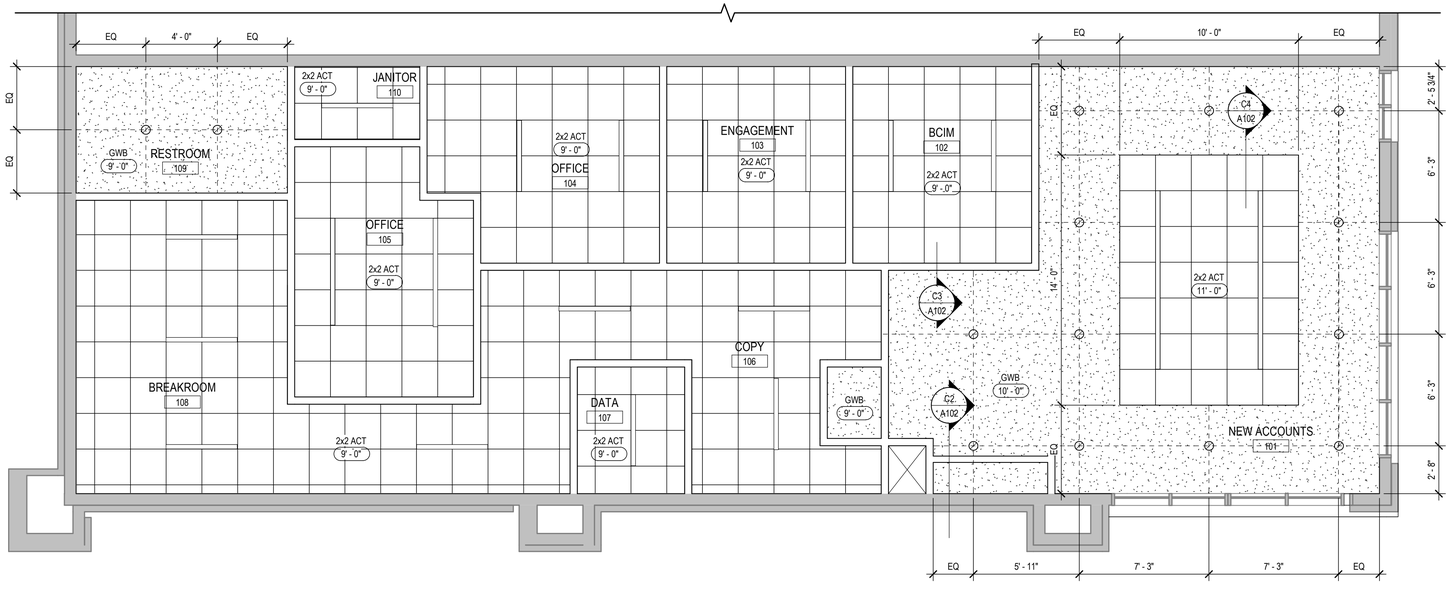
COVE DETAIL | C4
SCALE: 1 1/2" = 1'-0"



HEADER DETAIL | C3
SCALE: 1 1/2" = 1'-0"



SOFFIT DETAIL | C2
SCALE: 1 1/2" = 1'-0"



NORTH

REFLECTED CEILING PLAN | A2
SCALE: 1/4" = 1'-0"

CEILING PLAN GENERAL NOTES

A. ALL CIRCUITING FOR ELECTRICAL TO BE BY ELECTRICAL SUBCONTRACTOR.

B. PROVIDE DUPLEX OUTLETS AS IDENTIFIED ON DRAWINGS AND AS REQ'D BY CODE. PROVIDE GFCI OUTLETS IN ALL WET AREAS AS REQ'D BY CODE.

C. ALL HVAC TO BE DESIGN/BUILD BY CONTRACTOR.

D. CONTACT ARCHITECT IF CEILING HEIGH NOTED IN DWGS ISN'T FEASIBLE DUE TO EXISTING CONDITIONS.

E. CONTRACTOR SHALL TAKE PRECAUCTION DURING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING ITEMS TO REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL PRE-CONSTRUCTION CONDITION AND/OR REPARED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COST TO THE OWNER.

F. INSTALL CONCEALED MECHANICAL TOUCH-LATCH ACCESS DOOR WITH CONCEALED HARDWARE & GYPSUM BOARD INLAY WHERE REQ'D.

G. ALL WALL TV LOCATIONS TO BE VERIFIED WITH OWNER PRIOR TO INSTALLATION. WALL LOCATIONS SHOWN FOR PRICING PURPOSES.

H. PROVIDE BI-LEVEL SWITCHING OR OCCUPAND SENSOR & AUTOMATIC LIGHTING SHUTOFF(S). PER 505.2.2.1 AND 505.2.2.2. OF THE 2006 IEEC.

I. UNO CENTER ACT GRID IN EACH ROOM.

CEILING PLAN SYMBOLS LEGEND

- 4" RECESSED GRID LED, XAL LIGHTING - LENO 1K731727OH70040, LED (3850 LUMEN) 3500K/30W - O.C. GRID
- NEW GYPSUM WALL BOARD CEILING
- ACT: ARMSTRONG ULTIMA 2X2, 15/16 BEVELED REGULAR
- GWB 8'-0" — CEILING HEIGHT TAG
- 2X2 LAY-IN LIGHT FIXTURE W/ BATTERY FEATURES, LITHONIA LIGHTING, 2VTL2-40L-ADPT EZ1- LP840-(EL14L), LED (4000 LUMEN) 400K/35W
- 2X4 LAY-IN LIGHT FIXTURE W/ BATTERY FEATURES
- 4" RECESSED CAN LIGHT, LITHONIA LIGHTING, REAL6 D6MV ESL 1000L 30K
- LED STRIP LIGHTING CONCEALED IN COVER PER DETAIL C4/A111 FLEXFIRE LEDS, COLORBRIGHT NATURAL WHITE
- AREA NOT IN SCOPE

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FOR CONSTRUCTION

ISSUE DATE: 05.17.2024

REV	DESCRIPTION	DATE

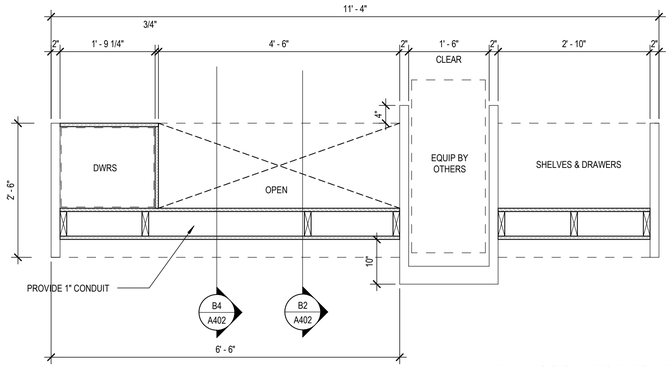
PROJECT NO. 16014
DRAWN BY: CH
CHK'D BY: PB

SHEET TITLE

REFLECTED CEILING PLAN

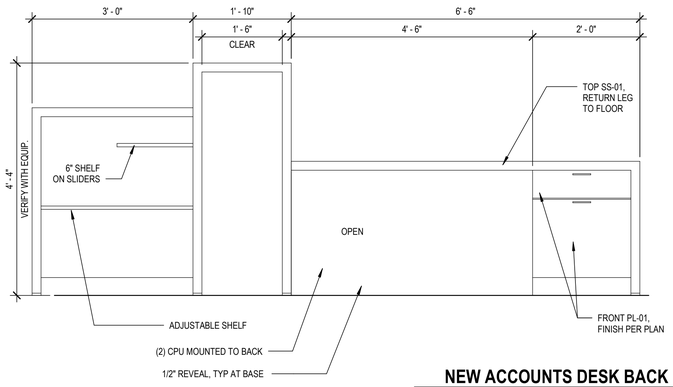
A102

5/17/2024 2:13:00 PM



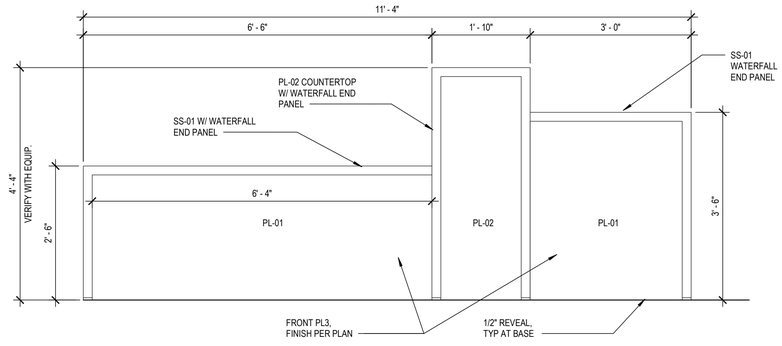
NEW ACCOUNTS DESK PLAN | D2

SCALE: 3/4" = 1'-0"



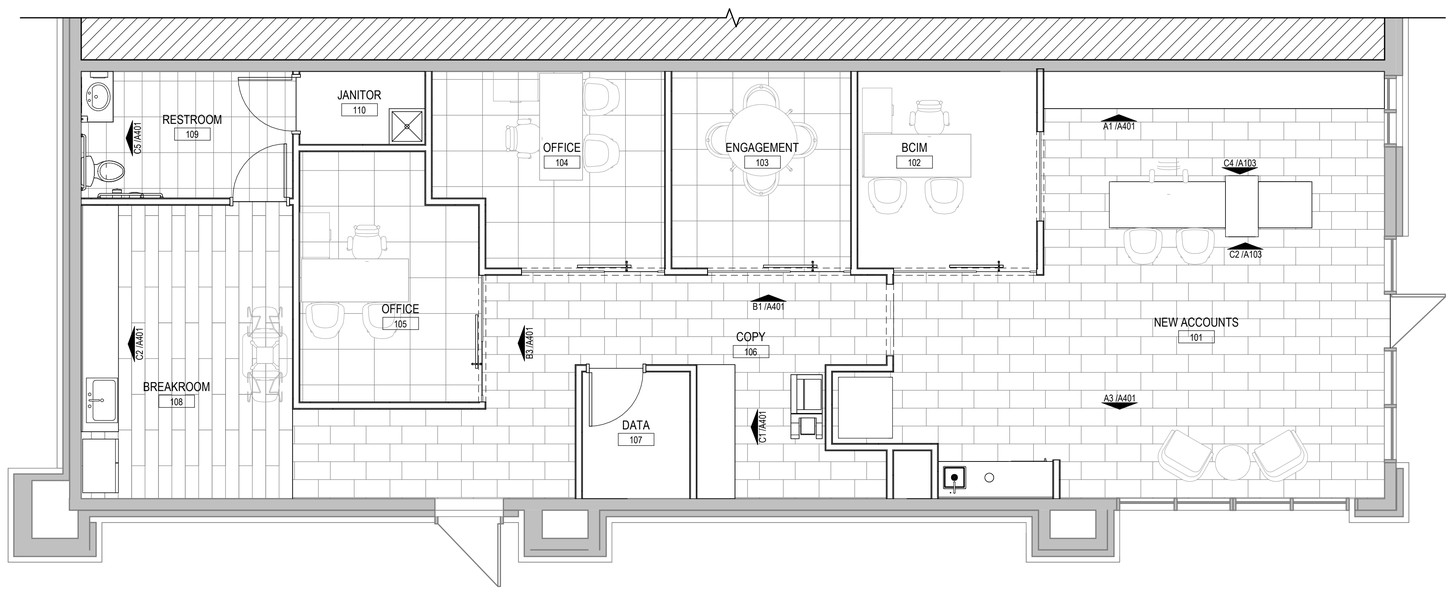
NEW ACCOUNTS DESK BACK | C4

SCALE: 3/4" = 1'-0"



NEW ACCOUNTS DESK FRONT | C2

SCALE: 3/4" = 1'-0"



FINISH FLOOR PLAN | A2

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

FINISH PLAN GENERAL NOTES

A. ALL WALLS TO BE P1 UNLESS NOTED OTHERWISE ON FINISH PLANS. GWB CEILINGS ARE TO BE PAINTED P3, CEILING BRIGHT WHITE UNLESS NOTED OTHERWISE.

B. ALL FLOOR AND WALL FINISHES ARE TO BE PROVIDED AND INSTALLED BY PROFESSIONAL CARPET, TILE AND/OR FLOOING CONTRACTORS.

C. CONTRACTOR SHALL ADHERE TO ALL CURRENT MANUFACTURERS PRINTED SPECIFICATIONS FOR APPROVED INSTALLATION METHODS (FOR EXAMPLE, BUT NOT LIMITED TO ADHESIVE TYPES, CUTTING METHODS AND SEAM SEALERS ETC.)

D. ALL MATERIALS SHALL BE INSPECTED FOR FLAWS, DEFECTS OR DISCOLORATION PRIOR TO CUTTING.

E. ALL CHANGES IN FINISH FLOORING MATERIALS OCCURRING AT DOORWAYS SHALL BE AT THE CENTERLINE OF THE DOORWAY U.N.O. ALL OTHER FLOORS MATERIAL TRANSITIONS SHALL BE ACCOMPLISHED SMOOTHLY TO THE SATISFACTION OF THE ARCHITECT AND OWNER. NO HEIGHT DIFFERENCE IN FLOORING MATERIAL CHANGES PERMITTED. USE ROPPE SUBFLOOR LEVELER OR FLOOR LEVELING COMPOUND TO TAPER AS REQUIRED.

F. FURNISH AND INSTALL PROPER METAL TRANSITION STRIPS AT CONNECTIONS BETWEEN CARPET AND TILE.

G. CONTRACTOR TO IMMEDIATELY NOTIFY ARCHITECT/DESIGNER OF ANY VISUAL DEFECTS ENCOUNTERED DURING INSTALLATION AND SHOULD NOT PROCEED WITH INSTALLATION OF A DEFECTIVE MATERIAL.

H. ALL CABINET DOORS AND DRAWERS SHALL UTILIZE HEAVY DUTY 120 EUROPEAN CONCEALED HINGES, FULL-EXTENSION DRAWER GLIDES FOR FLUSH-OVERLAY CONSTRUCTION. RE: ELEVATIONS FOR PULL TYPES AND SPECIFIC COMPONENTS.

I. VINYL WALL COVERING NO SEAM DOWN MIDDLE OF WALL AND NO OPEN EDGES AT CORNERS.

FINISH LEGEND

- 1-HOUR RATED WALL PER CODE
- CARPET 1
- TILE 1
- TILE 2
- LVT 1
- SEALED CONC. FLOOR

CARPET

CPT-01 MANUF: TARKETT
PATTERN: CACHE TWEED
SIZE: 24"X24"
INSTALLATION: VERTICAL ASHLAR
COLOR: SHADOW GRIS 42710
CONTACT: ABBEY HELLAND 816.678.8605

TILE

TL-01 MANUF: CROSSVILLE
PATTERN: SHADES 2.0
SIZE: 12"X24"
COLOR: THUNDER UPS
GROUT COLOR: MAPEI IRON
CONTACT: VIRGINIA TILE

TL-02 MANUF: CROSSVILLE
PATTERN: SHADES 2.0
SIZE: 12"X24"
COLOR: ASH UPS
GROUT COLOR: MAPEI IRON
LOCATION: RESTROOM

VINYL FLOORING

LVT-01 MANUF: BENTLEY MILLS
PATTERN: MEMORY
COLOR: CRAFTSMAN 801980
SIZE: 9" X 48"
INSTALLATION: RANDOM
CONTACT: ALI SKILLING 913.387.9668

BASE

RB-01 MANUF: JOHNSONITE
TYPE: RUBBER BASE - COVE
COLOR: BLACK

B-01 WOOD BASE PAINTED TO MATCH WALL
PAINT COLOR RE: C1/A601 FOR DETAIL

B-02 MANUF: CROSSVILLE
TYPE: TILE BASE TO MATCH FLOOR
COLOR: ASH
LOCATION: RESTROOMS

ACOUSTICAL CEILING TILES

ACT-01 MANUF: ARMSTRONG
STYLE: ULTIMA 24X24
COLOR: WHITE
9/16" GRID

WOOD

WD-01 - SPECIES: WHITE OAK
GRAIN: STRAIGHT GRAIN, HORIZONTAL ORIENTATION
STAIN: TO MATCH ARCHITECTS SAMPLE

VINYL WALLCOVERING

WC-01 - MANUF: KOROSEAL WALLTALKERS
STYLE: MAG RITE II
COLOR: WHITE
TRIM: J-CAP
CONTACT: AMY NEUSAL 816-728-3971
NOTE: FEATHER WALL AS NEEDED FOR MARKERBOARDS TO BE FLAT AT TRANSITION TO J-CAP. TO BE INSTALLED STARTING 30' AFF

PAINT

PT-01 BENJAMIN MOORE
COLOR: SUPER WHITE OC-152
LOCATION: FIELD PAINT
TYPE: EGGSHELL FOR WALLS; FLAT FOR CEILING

PT-02 BENJAMIN MOORE
COLOR: SEAWEED 2035-10
LOCATION: ACCENT
TYPE: EGGSHELL

PT-03 BENJAMIN MOORE
COLOR: KITTY GRAY 1589
LOCATION: ACCENT
TYPE: EGGSHELL

SOLID SURFACE

SS-01 MANUF: CORIAN
COLLECTION: CORIAN QUARTZ
COLOR: COARSE CARRARA
CONTACT: KRISTY RINNE 314.254.6634

PLASTIC LAMINATE

PL-01 MANUF: FORMICA
STYLE: FENIX
COLOR: BIANCO KOS J0032
CONTACT: KELSEY SHERIDAN 816.337.8385

PL-02 MANUF: FORMICA
STYLE: FENIX
COLOR: GRIGIO ANTRIM
CONTACT: KELSEY SHERIDAN 816.337.8385

PL-03 - MANUF: WILSONART
COLOR: FAWN CYPRESS 8208K-16
CONTACT: MANDY BRIDGES 913.484.2691

GENERATOR 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

ARCHITECT: MICHAEL KRESS
LICENSE NO. ######

STATE OF MISSOURI
THOMAS JASON PROBSTLE NUMBER A-2002017012 ARCHITECT
5/17/2024

SEAL

ACADEMY BANK LEE'S SUMMIT

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

FOR CONSTRUCTION

ISSUE DATE: 05.17.2024

REV	DESCRIPTION	DATE

PROJECT NO. 16014
DRAWN BY: CH
CHK'D BY: PB

SHEET TITLE

FINISH PLAN

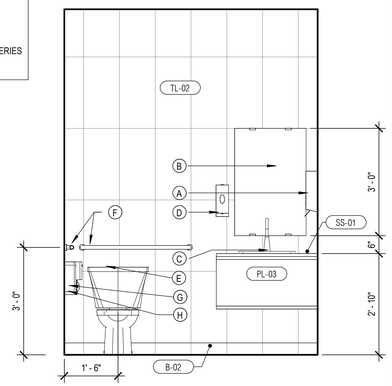
A103

5/17/2024 2:13:01 PM

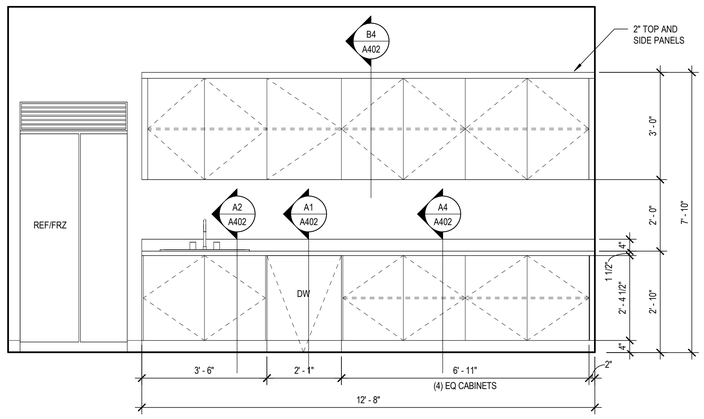
TOILET ACCESSORY KEY NOTES

- (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 DISPOSAL

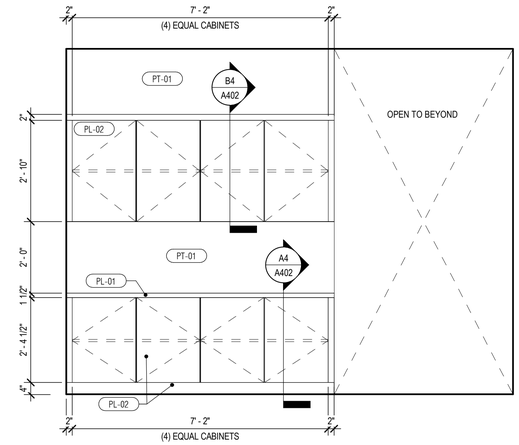
RE: G003 FOR RESTROOM ACCESSORY MOUNTING HEIGHT



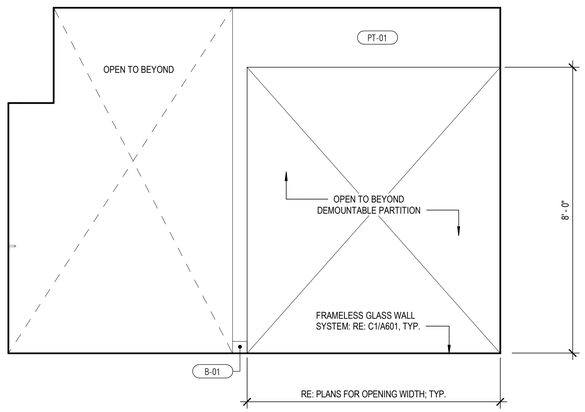
109 RESTROOM - WEST | C5
SCALE: 1/2" = 1'-0"



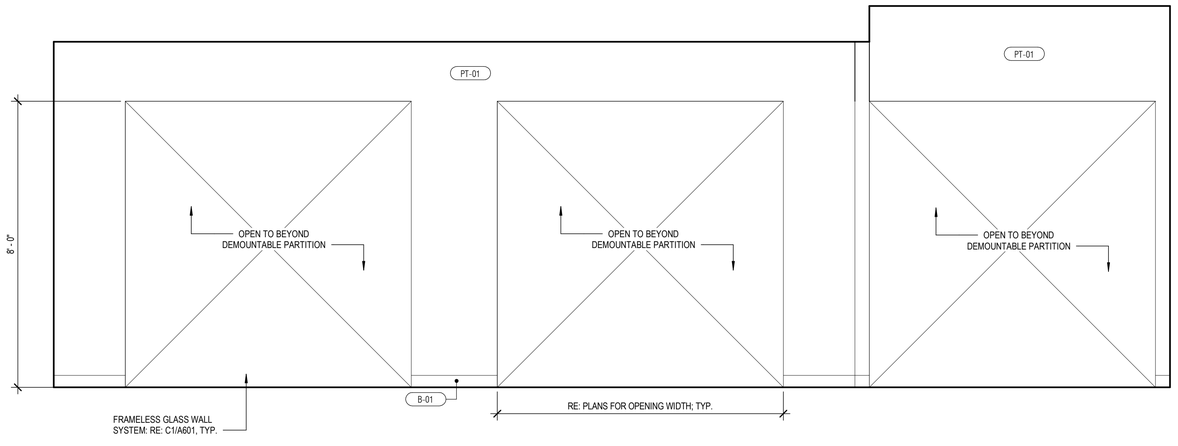
108 BREAKROOM - WEST | C2
SCALE: 1/2" = 1'-0"



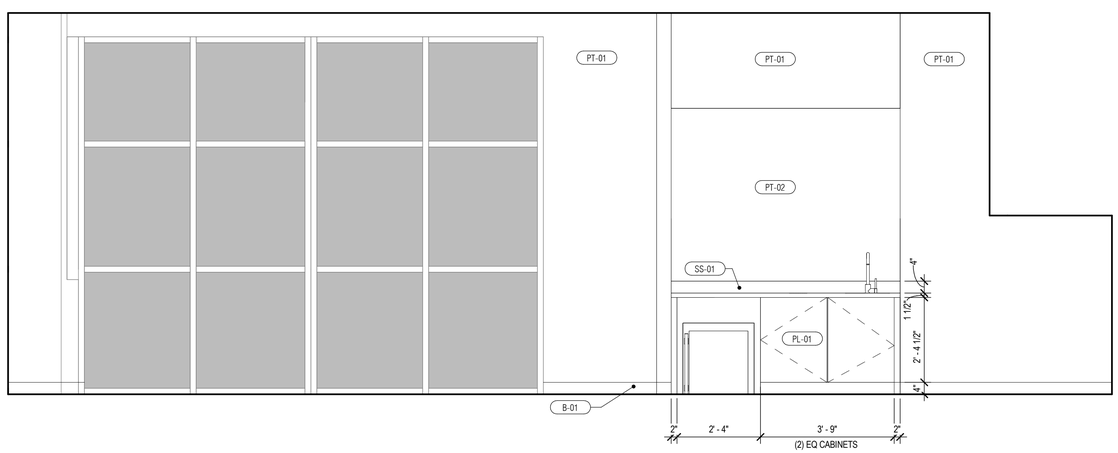
106 COPY - WEST | C1
SCALE: 1/2" = 1'-0"



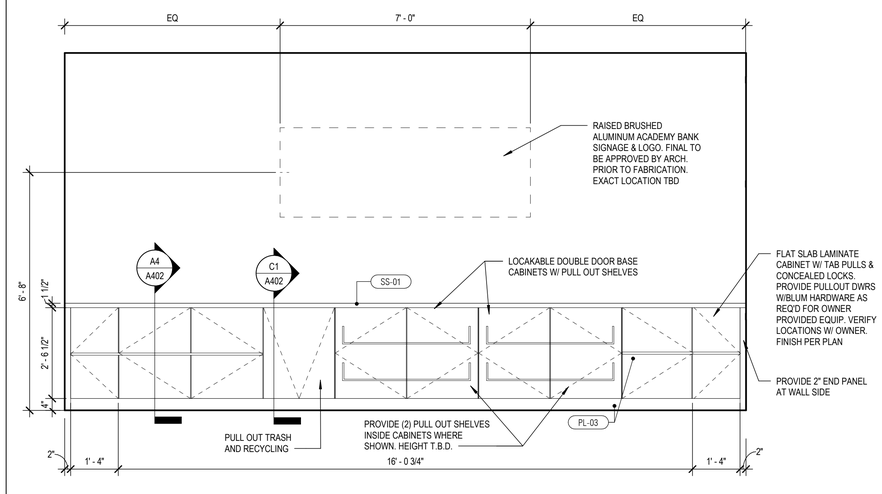
106 COPY - WEST CONT'D | B3
SCALE: 1/2" = 1'-0"



106 COPY - NORTH | B1
SCALE: 1/2" = 1'-0"



101 NEW ACCOUNTS - SOUTH | A3
SCALE: 1/2" = 1'-0"



101 NEW ACCOUNTS - NORTH | A1
SCALE: 1/2" = 1'-0"

GENERATOR STUDIO

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ARCHITECT: MICHAEL KRESS
LICENSE NO. ######

STATE OF MISSOURI · THOMAS JASON PROBSTLE · NUMBER 2020017812 · ARCHITECT

5/17/2024

SEAL

ACADEMY BANK LEE'S SUMMIT

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

FOR CONSTRUCTION

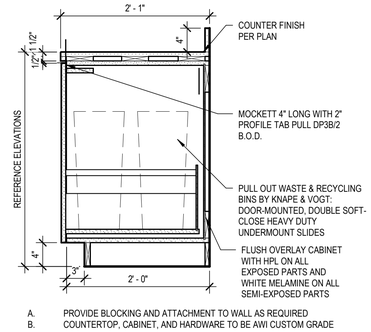
ISSUE DATE:	05.17.2024
REV DESCRIPTION	DATE

PROJECT NO. 16014
DRAWN BY: CH
CHK'D BY: PB

SHEET TITLE
INTERIOR ELEVATIONS

A401

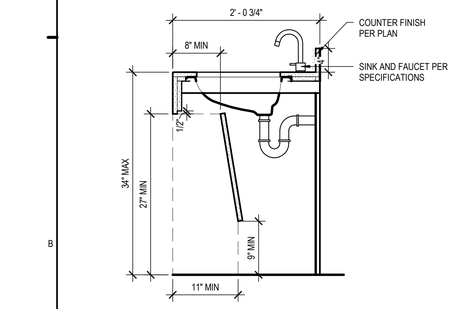
5/17/2024 2:13:02 PM



A. PROVIDE BLOCKING AND ATTACHMENT TO WALL AS REQUIRED
B. COUNTERTOP, CABINET, AND HARDWARE TO BE AWI CUSTOM GRADE

SOLID SURFACE - TRASH PULL OUT | C1

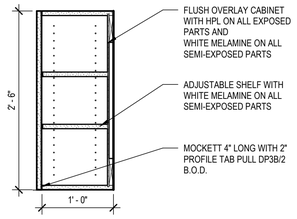
SCALE: 1" = 1'-0"



A. PROVIDE BLOCKING AND ATTACHMENT TO WALL AS REQUIRED
B. COUNTERTOP, CABINET, AND HARDWARE TO BE AWI CUSTOM GRADE
C. GRIND ALL WELDS SMOOTH

SOLID SURFACE - SINK + REMOVABLE PANEL | B5

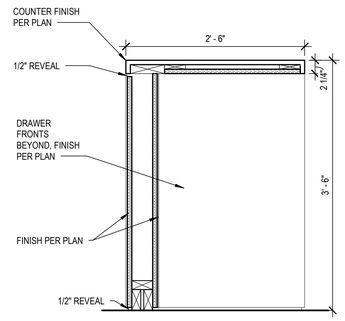
SCALE: 1" = 1'-0"



A. PROVIDE BLOCKING AND ATTACHMENT TO WALL AS REQUIRED
B. CABINET AND HARDWARE TO BE AWI CUSTOM GRADE

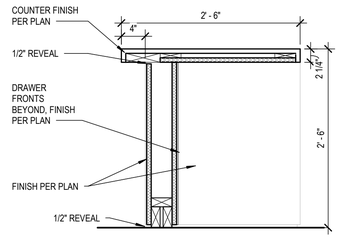
LAMINATE - UPPER CABINET | B4

SCALE: 1" = 1'-0"



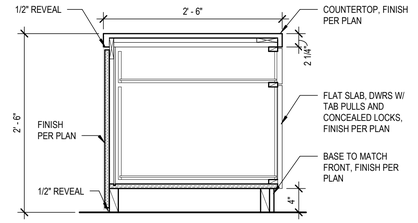
SECTION @ TRANSACTION COUNTER | B3

SCALE: 1" = 1'-0"



SECTION @ COUNTER | B2

SCALE: 1" = 1'-0"



SECTION @ FILE | B1

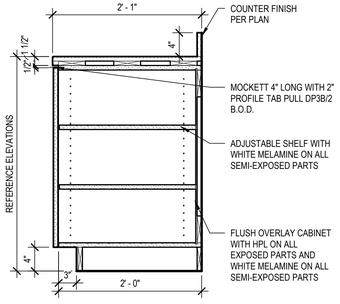
SCALE: 1" = 1'-0"

APPLIANCE SUMMARY:

1. ALL APPLIANCES TO BE SELECTED BY OWNER AND INSTALLED BY CONTRACTOR.
2. FINISH TO BE STAINLESS STEEL UNLESS NOTED OTHERWISE.
   (1) UNDER COUNTER REFRIGERATOR
   (1) 36" SIDE BY SIDE REF/FZR
   (1) UNDER COUNTER DISHWASHER
   (1) COUNTERTOP MICROWAVE
   (1) DISPOSAL
   (2) FLAT SCREEN TVS - VERIFY SIZE WITH OWNER PRIOR TO PURCHASE AND INSTALLATION
3. CONTRACTOR TO PROVIDE ALL THROUGH IN & UTILITY CONNECTIONS NECESSARY FOR A FULL AND COMPLETE INSTALLATION.

APPLIANCE SCHEDULE | A5

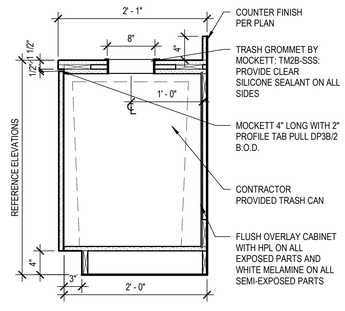
SCALE: 1 1/2" = 1'-0"



A. PROVIDE BLOCKING AND ATTACHMENT TO WALL AS REQUIRED
B. COUNTERTOP, CABINET, AND HARDWARE TO BE AWI CUSTOM GRADE

SOLID SURFACE - BASE DOOR CABINET | A4

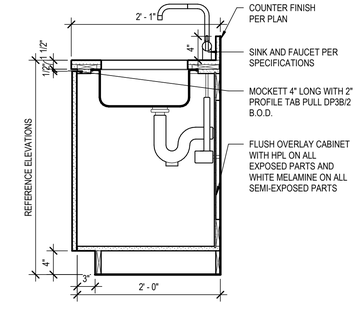
SCALE: 1" = 1'-0"



A. PROVIDE BLOCKING AND ATTACHMENT TO WALL AS REQUIRED
B. COUNTERTOP, CABINET, AND HARDWARE TO BE AWI CUSTOM GRADE

SOLID SURFACE - BASE CABINET (TRASH) | A3

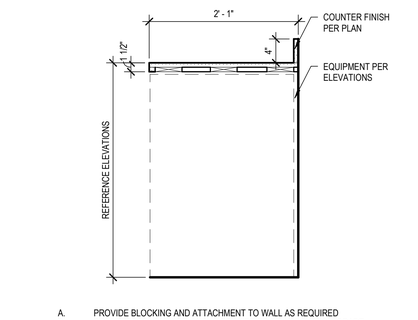
SCALE: 1" = 1'-0"



A. PROVIDE BLOCKING AND ATTACHMENT TO WALL AS REQUIRED
B. COUNTERTOP, CABINET, AND HARDWARE TO BE AWI CUSTOM GRADE

SOLID SURFACE - BASE CABINET (SINK) | A2

SCALE: 1" = 1'-0"



A. PROVIDE BLOCKING AND ATTACHMENT TO WALL AS REQUIRED
B. COUNTERTOP, CABINET, AND HARDWARE TO BE AWI CUSTOM GRADE

SOLID SURFACE - BASE CABINET (EQUIP) | A1

SCALE: 1" = 1'-0"

GENERATOR STUDIO

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ARCHITECT: MICHAEL KRESS
LICENSE NO. ######

STATE OF MISSOURI
THOMAS JASON PROBSTLE
NUMBER A-2022017812
ARCHITECT
5/17/2024

SEAL

ACADEMY BANK LEE'S SUMMIT

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

FOR CONSTRUCTION

ISSUE DATE:	05.17.2024
REV DESCRIPTION	DATE

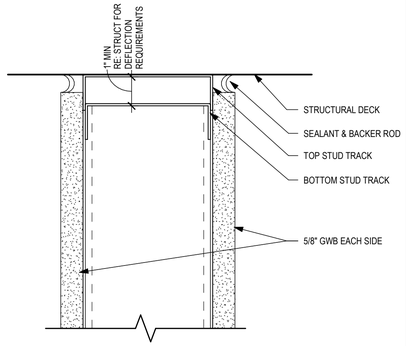
PROJECT NO.	16014
DRAWN BY:	CG
CHK'D BY:	GB

SHEET TITLE

MILLWORK DETAILS

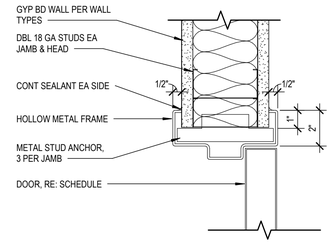
A402

5/17/2024 2:13:03 PM



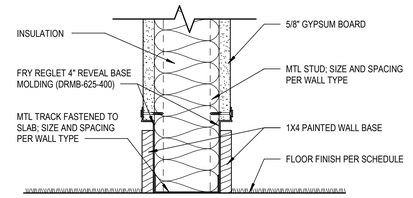
TYPICAL SLIP TRACK DETAIL | C3

SCALE: 6" = 1'-0"



HEAD/JAMP DETAIL @ GYP WALL | C2

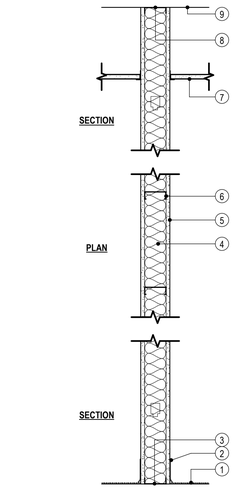
SCALE: 3" = 1'-0"



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

SCALE: 3" = 1'-0"

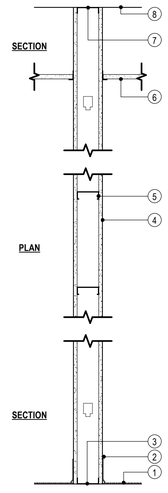


1. FLOOR FINISH PER SCHEDULE
2. WALL BASE PER SCHEDULE, INSTALL AFTER FLOOR FINISH
3. 20 GA METAL TRACK FASTENED TO SLAB @ 24" O.C.
4. SOUND ATTENUATION BLANKET, 3-1/2" THICK
5. 5/8" GYPSUM BOARD, ONE LAYER ON EACH SIDE
6. 20 GA METAL STUDS @ 16" O.C., 3-5/8" U.N.O.
7. CEILING PER PLAN
8. 20 GA METAL TRACK FASTENED TO DECK @ 24" O.C.
9. FLOOR / ROOF DECK

WALL TYPE A2.1: PROVIDE GYP ONLY ON PUBLIC FACING SIDE OF WALL.

WALL TYPE A2 | A4

SCALE: 1" = 1'-0"



1. FLOOR FINISH PER SCHEDULE
2. WALL BASE PER SCHEDULE, INSTALL AFTER FLOOR FINISH
3. 20 GA METAL TRACK FASTENED TO SLAB @ 24" O.C.
4. 5/8" GYPSUM BOARD, ONE LAYER ON EACH SIDE
5. 20 GA METAL STUDS @ 16" O.C., 3-5/8" U.N.O.
6. CEILING PER PLAN
7. 20 GA METAL TRACK FASTENED TO DECK @ 24" O.C.
8. FLOOR / ROOF DECK

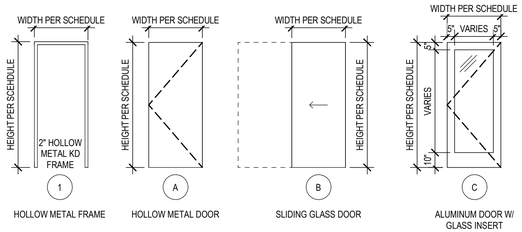
WALL TYPE A1.1: PROVIDE GYP ONLY ON PUBLIC FACING SIDE OF WALL.

WALL TYPE A1 | A3

SCALE: 1" = 1'-0"

DOOR SCHEDULE

DOOR NUMBER	NAME	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL
102A	BCIM	3' - 0"	7' - 10"	B	GLASS	-	-
103A	ENGAGEMENT	3' - 0"	7' - 10"	B	GLASS	-	-
104A	OFFICE	3' - 0"	7' - 10"	B	GLASS	-	-
105A	OFFICE	3' - 0"	7' - 10"	B	GLASS	-	-
107A	DATA	3' - 0"	7' - 0"	A	HM	1	HM
109A	RESTROOM	3' - 0"	7' - 0"	A	HM	1	HM
110A	JANITOR	3' - 0"	7' - 0"	A	HM	1	HM



DOOR SCHEDULE NOTES:

1. CONTRACTOR TO VERIFY COMPLIANCE WITH OWNERS REQUIREMENTS TO SECURE SPACE PRIOR TO PURCHASE AND/OR INSTALLATION OF HARDWARE.
2. PAINT DOOR AND FRAME TO MATCH ADJACENT WALL SURFACE.
3. DOOR PULLS WILL LIMIT OPEN WIDTH OF SLIDING DOORS. ADJUST DOOR SIZE AS REQUIRED TO MAINTAIN 3'-0" CLEAR OPENING.

HARDWARE SCHEDULE:

SET #1
- (1) PRIVACY LOCKSET
- (3) BUTT HINGES
- (1) WALL STOP
- (1) OVERHEAD CLOSER

SET #2
- (1) STOREROOM LOCKSET
- (3) VISIBLE HINGES PER EZY JAMB
- (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"

GENERAL NOTES:

1. DOORS ARE TO HAVE LEVER TYPE HARDWARE, SCHLAGE ND-SERIES OR EQUAL, UNLESS OTHERWISE NOTED.
2. ALL EXPOSED HARDWARE SHALL BE FINISH 626, SATIN CHROMIUM PLATED, UNLESS OTHERWISE NOTED. VERIFY FINISHES WITH ARCHITECT PRIOR TO ORDERING.
3. OVERHEAD CLOSERS INDICATED SHALL BE FURNISHED WITH MAXIMUM OPENING LIMITATION OF 110 DEGREES.
4. ALL DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING OR FABRICATION.
5. GLAZING SHALL BE FULLY TEMPERED *T(WHEREINDICATED ON THE DRAWINGS AND REQUIRED TO MEET REQUIREMENTS OF IBC AND AHJ.
6. 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.
7. CONTRACTOR TO COORDINATE KEYING WITH THE OWNER. ALL SPECIAL LOCKING ARRANGEMENTS TO COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
8. DOOR OPERATING DEVICES SHALL BE CAPABLE OF OPERATION WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST.
9. ALL DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE W/O SPECIAL KNOWLEDGE OF USE OF KEY OR KEYCARD.
10. ALL DOOR HARDWARE MUST BE ADA COMPLIANT.
11. ALL HARDWARE MUST BE REVIEWED WITH ARCHITECT AND OWNER PRIOR TO ORDER AND INSTALLATION
12. U.N.O. ALL HM DOORS AND FRAMES TO BE PAINTED TO MATCH ADJACENT WALL.

DOOR & FRAME TYPES AND SCHEDULE | A1

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

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STATE OF MISSOURI
THOMAS JASON PROBSTILE
NUMBER A-2002017812
ARCHITECT
5/17/2024

SEAL

ACADEMY BANK LEE'S SUMMIT

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

FOR CONSTRUCTION

ISSUE DATE: 05.17.2024

REV	DESCRIPTION	DATE

PROJECT NO. 16014
DRAWN BY: CH
CHK'D BY: PB

SHEET TITLE

SCHEDULES AND DETAILS

A601

5/17/2024 2:13:04 PM

MECHANICAL LEGEND AND ABBREVIATIONS

ABBREVIATIONS - MECHANICAL

ABV	ABOVE
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACD	AUTOMATIC CONTROL DAMPER
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTICAL LINING
ARCH	ARCHITECTURAL
ATC	AUTOMATIC TEMPERATURE CONTROL
B	BOILER
BD	BALANCING DAMPER
BDD	BACK DRAFT DAMPER
BMS	BUILDING MANAGEMENT SYSTEM
BO	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
CH	CHILLER
CO	CLEAN OUT
COMP	COMPRESSOR
CONV	CONVECTOR
CR	CEILING REGISTER
CT	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
HX	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
MFG	MANUFACTURER

ABBREVIATIONS - MECHANICAL

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

PIPING LEGEND

CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
RL	REFRIGERANT LIQUID PIPING

PIPING LEGEND (CONTINUED)

RS	REFRIGERANT SUCTION PIPING
R-SV	REFRIGERANT-SAFETY VALVE RELIEF LINE
HG	HOT GAS PIPING
DCW	DOMESTIC COLD WATER MAKE-UP
	ARROW INDICATES DIRECTION OF FLOW
	PITCH PIPE DOWN IN DIRECTION OF ARROW
	DRAIN LINE
	PIPE ANCHOR
	PIPE GUIDE
	EXPANSION COMPENSATOR
(3'-0"x6'-0")	EXPANSION LOOP (SIZE AxB)
	FLEXIBLE BALL JOINT EXPANSION COMPENSATOR
	CONCENTRIC REDUCER (INCREASER)
	ECCENTRIC REDUCER (INCREASER)
	UNION
	CAPPED PIPE WITH SHUT-OFF VALVE
	"Y" TYPE STRAINER WITH HOSE END BLOW OFF VALVE
	"Y" TYPE STRAINER
	BASKET TYPE STRAINER
	DUPLEX STRAINER
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	SLOPED CHANGE IN PIPE ELEVATION
	FLEXIBLE CONNECTION
	SHUT-OFF VALVE
	AUTOMATIC FLOW CONTROL VALVE
	CALIBRATED BALANCE VALVE
	GLOBE VALVE
	CHECK VALVE
	AUTOMATIC THREE-WAY CONTROL VALVE
	AUTOMATIC TWO-WAY CONTROL VALVE
	RELIEF VALVE
	ANGLE RELIEF VALVE
	PRESSURE REDUCING VALVE (PRV)
	LUBRICATED PLUG VALVE
	LOCKSHIELD GLOBE VALVE
	SOLENOID VALVE
	BUTTERFLY VALVE (MANUAL)
	BUTTERFLY VALVE (MOTORIZED)
	BALL VALVE
	PUMP

PIPING LEGEND (CONTINUED)

	DIRT POCKET
	REFRIGERANT EXPANSION VALVE
	SIGHT GLASS
	VALVE IN VERTICAL
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	THERMOMETER
	PIPE SENSOR WELL (THERMOMETER)
	PRESSURE GAUGE AND COCK
	PRESSURE GAUGE WITH LOOP
	TEMPERATURE-PRESSURE TEST FITTING
	CENTER LINE
	HEAT TRACED PIPING
	PIPE SLEEVE
	BEAM PENETRATION
	PIPE GUIDE
	PIPE CAP
	PIPE BLIND FLANGE

DUCTWORK LEGEND

16x6 / 8x6 / 16x6 / 8x6	DUCT SPLIT WITH SPLIT SIZE
	RADIUS ELBOW
	ELBOW WITH TURNING VANES
	RECTANGULAR BRANCH TAKEOFF WITH BALANCING DAMPER
	RECTANGULAR SUPPLY DUCT UP
	RECTANGULAR SUPPLY DUCT DOWN
	RECTANGULAR RETURN OR EXHAUST DUCT UP
	RECTANGULAR RETURN OR EXHAUST DUCT DOWN
	ROUND DUCT, UP
	ROUND DUCT, DOWN
	BEAM PENETRATION
	SLOPING RISE IN DUCTWORK

DUCTWORK LEGEND (CONTINUED)

	SLOPING DROP IN DUCTWORK
18x12 / 18x12	DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE
18 / 18	ROUND DUCT DIAMETER SIZE (CLEAR INSIDE DIMENSION)
18 / 18	OVAL DUCT SIZE
	SIDE, TOP OR BOTTOM DUCT ACCESS DOOR
	ACOUSTIC LINING IN DUCT (DUCT SIZE NOTED INDICATES INSIDE DIMENSIONS)
	RECTANGULAR OR SQUARE TO ROUND OR OVAL TRANSITION
	FLEXIBLE CONNECTION
	DUCT END/CAP
	FLEXIBLE DUCT
	DUCT COIL WITH ACCESS DOOR
	VOLUME DAMPER IN DUCT
	AUTOMATIC CONTROL DAMPER
	FUSIBLE LINK FIRE DAMPER WITH DUCT ACCESS DOOR
	SMOKE DAMPER WITH DUCT ACCESS DOOR
	COMBINATION FIRE AND SMOKE DAMPER WITH DUCT ACCESS DOOR
	BACK DRAFT DAMPER WITH DUCT ACCESS DOOR
	LINEAR DIFFUSER
	LINEAR DIFFUSER WITH PLENUM
	CEILING DIFFUSER: 1-WAY BLOW, 2-WAY BLOW, 3-WAY BLOW, 4-WAY BLOW
	CEILING DIFFUSER WITH FLEXIBLE DUCT CONNECTION
	RETURN/EXHAUST REGISTER OR GRILLE
	RETURN/EXHAUST REGISTER OR GRILLE WITH FLEXIBLE DUCT CONNECTION
	ROUND CEILING DIFFUSER WITH FLEXIBLE DUCT CONNECTION
	ROUND CEILING DIFFUSER
	FLOOR SWIRL DIFFUSER
	FIRE RATED ENCASED DUCT
	TRANSFER GRILLES ON BOTH SIDES OF PARTITION OR WALL (SIZE)
WO-SIZE	WALL OPENING ABOVE HUNG CEILING (SIZE)
SR-A 12x8 (200) / SR-A 12x8 (200)	SUPPLY REGISTER WITH AIR OUTLET DEVICE DESIGNATION
ER-C 12x8 (200) / ER-C 12x8 (200)	RETURN OR EXHAUST REGISTER OR GRILLE WITH AIR INLET DEVICE DESIGNATION
ACCESS AREA	TERMINAL UNIT WITH/WITHOUT HEATING COIL
ACCESS AREA	FAN POWERED TERMINAL UNIT WITH/WITHOUT HEATING COIL

CONTROLS LEGEND

	TOTALIZING BTU METER
	EMERGENCY BREAK GLASS SWITCH FOR EQUIPMENT SHUT-DOWN
	FLOW MEASURING STATION
	FLOW SWITCH
CM #	CARBON MONOXIDE SENSOR WITH ZONE DESIGNATION
CD #	CARBON DIOXIDE SENSOR WITH ZONE DESIGNATION
T #	TEMPERATURE SENSOR/THERMOSTAT WITH ZONE OR EQUIPMENT DESIGNATION
H #	HUMIDISTAT/HUMIDITY SENSOR WITH HUMIDIFIER DESIGNATION
TH #	COMBINATION TEMPERATURE/HUMIDITY SENSOR
S	DUCT SMOKE DETECTOR SUPPLIED BY ELECTRICAL TRADE, INSTALLED BY MECHANICAL TRADE
P #	STATIC PRESSURE SENSOR WITH DESIGNATION
R #	REFRIGERANT SENSOR WITH DESIGNATION

MISCELLANEOUS

DP	DIFFERENTIAL PRESSURE SENSOR
DP	DIFFERENTIAL PRESSURE SWITCH
	NEW WORK
	EXISTING WORK
	EXISTING WORK TO BE REMOVED
	POINT OF NEW CONNECTION TO EXISTING WORK
	OVAL
	DIAMETER
U	UNDERCUT DOOR
HW-1	RISER DESIGNATION: RISER SERVICE, RISER NUMBER
2 / V.3.1	SECTION DESIGNATION: SECTION NUMBER, DRAWING NUMBER
1 / M2.1	DETAIL DESIGNATION: DETAIL NUMBER, DRAWING NUMBER
CT 1-1	EQUIPMENT DESIGNATION: EQUIPMENT TYPE, EQUIPMENT FLOOR AND NUMBER
3-24	TERMINAL DESIGNATION: 3-24 = THE NUMBER ON THE FLOOR / FLOOR OR LEVEL
CD-1.12x12 (550)	AIR OUTLET/INLET DEVICE DESIGNATION: TYPE, NECK OR FACE SIZE, CFM
LD-A.48x1.8 (300)	LINEAR DIFFUSER DEVICE DESIGNATION: TYPE, LENGTH & SLOT SIZE, PLENUM INLET SIZE, CFM
	KEYNOTE

MECHANICAL DRAWING LIST

SHEET NUMBER	SHEET NAME
M-000	MECHANICAL LEGEND & ABBREVIATIONS
M-100	MECHANICAL FLOOR PLAN & SCHEDULES
M-700	MECHANICAL SPECIFICATIONS

APPLICABLE CODES

CODES:

- 2018 INTERNATIONAL MECHANICAL CODE
- COMPLY WITH LOCAL JURISDICTION REQUIREMENTS

PRIOR TO BID/START OF CONSTRUCTION REQUIREMENTS

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5/5/2024
STATE OF MISSOURI
DANNY EUGENE ROSS
NUMBER E-21634
REGISTERED PROFESSIONAL ENGINEER

SEAL

ACADEMY BANK BRANCH: LEE'S SUMMIT

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PERMIT SET

ISSUE DATE: 05.30.24

REV	DESCRIPTION	DATE

PROJECT NO. 16014
DRAWN BY:
CHKD BY:
SHEET TITLE

M-000

KEYED NOTES:

1. EXISTING RTU TO REMAIN. CONTRACTOR TO BRING TO GOOD WORKING CONDITION & BALANCE OUTSIDE AIR TO VALUES SHOWN IN SCHEDULE

EXISTING ROOFTOP UNIT SCHEDULE

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

AIR BALANCE SCHEDULE

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

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

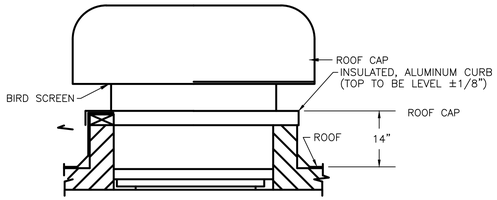
CALLOUT	FACE SIZE (IN)	INLET SIZE (IN)	MODEL
CD	24x24	6Ø	TITUS - TMS
CD1	12x12	6Ø	TITUS - TMS
CD2	24x24	8Ø	TITUS - TMS
CD3	24x24	14Ø	TITUS - TMS
RG	24x48	22x38	TITUS - 50F

EXHAUST FAN/ROOF CAP SCHEDULE

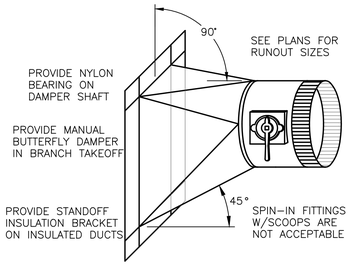
MARK	MANUFACTURER MODEL APPLICATION	RPM CFM ESP	V/PH/HZ SONES	CFM STATIC PRESSURE	ACCESSORIES NOTES
EF	COOK GC-128	750 79 0.125	115/1/60 3.4		A,C,F 1,2
RC	COOK 10 PR EXHAUST AIR			150 .125	G,H 3

ACCESSORIES:
A. BACKDRAFT DAMPER.
B. NOT USED
C. ANODIZED ALUMINUM GRILLE.
D. NOT USED
E. NOT USED
F. GEMINI ISOLATOR KIT - ISOLATORS.
G. RCG 18 CURB -9.5
H. ALUM INSECT SCREEN.

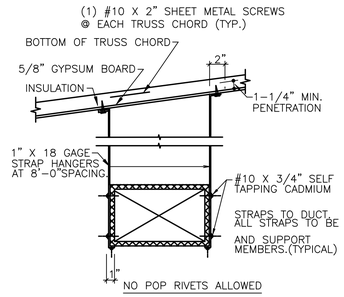
NOTES:
1. VERIFY APPROVED EQUALS WITH OWNER.
2. SWITCH FAN WITH LIGHT SWITCH.
3. COORDINATE COLOR WITH ARCHITECT.



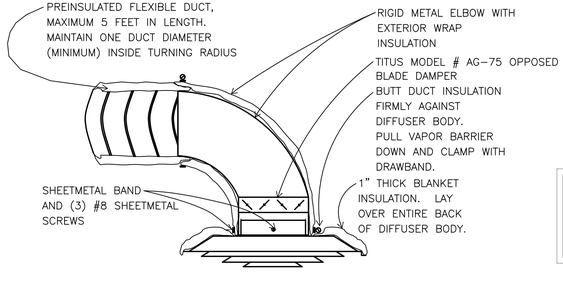
4 ROOF CAP
N.T.S. HDB



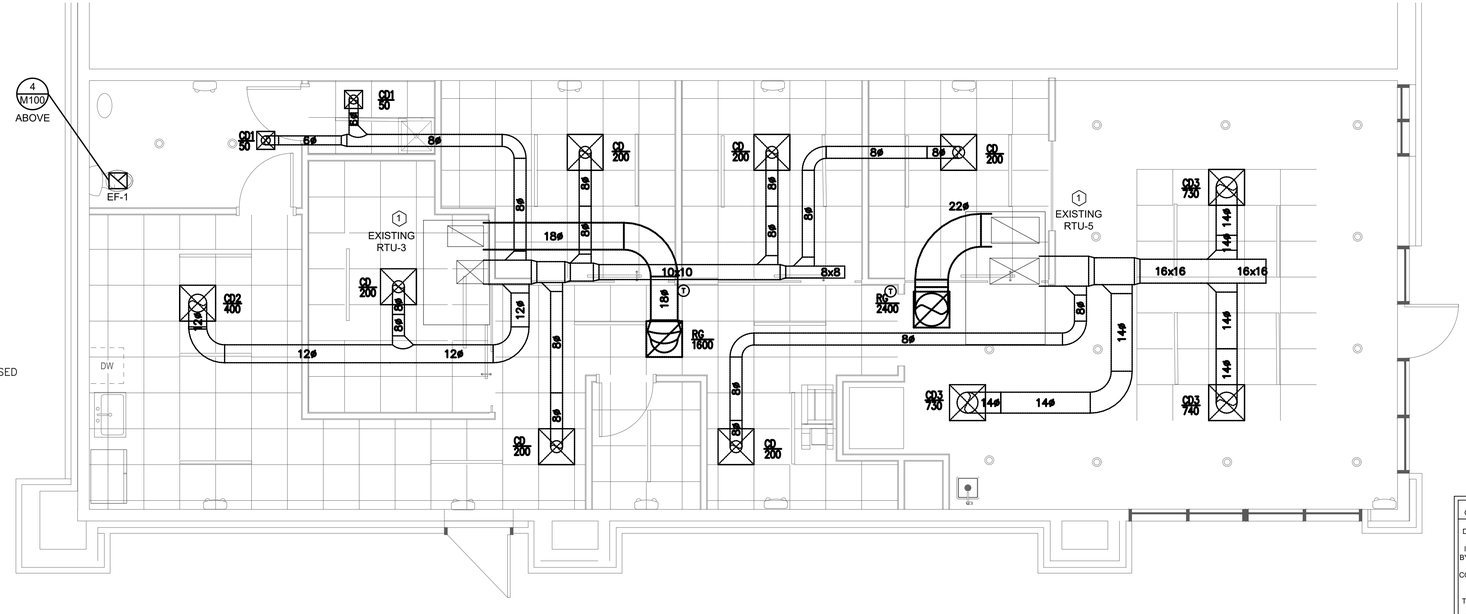
3 ROUND BRANCH DUCT TAKE-OFF
N.T.S. HD29



2 DUCT STRAP HANGER DETAIL
N.T.S. HD23



1 DIFFUSER DETAIL
N.T.S. HD15



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

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SEAL

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2070 NW Lowenstein Dr
Suite A
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PERMIT SET

ISSUE DATE: 05.30.24

REV	DESCRIPTION	DATE

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

M-100

SECTION 15000

COMMON REQUIREMENTS FOR MECHANICAL WORK:

1.0 GENERAL

1.01. SCOPE OF DIVISION:

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

1.02 DRAWINGS:

A. ARCHITECTURAL AND STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER MECHANICAL DRAWINGS WITH REFERENCE TO THE BUILDING CONSTRUCTION. MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND EXTENT OF WORK. EXACT LOCATIONS AND ARRANGEMENTS OF MATERIALS AND EQUIPMENT SHALL BE DETERMINED, WITH THE APPROVAL OF THE ENGINEER, AS WORK PROGRESSES TO CONFORM IN THE BEST POSSIBLE MANNER WITH THE SURROUNDINGS AND WITH THE ADJOINING WORK OF OTHER TRADES.

1.03 COORDINATION OF WORK:

A. COORDINATE ALL WORK, PRIOR TO INSTALLATION WITH WORK OF OTHER TRADES AND WITH ARCHITECTURAL AND STRUCTURAL FEATURES TO PRECLUDE INTERFERENCE'S BETWEEN THE WORK OF DIFFERENT TRADES AND TO INSURE NECESSARY CLEARANCES AT CROSSOVERS AND EQUIPMENT.

1.04 SHOP DRAWINGS:

A. SUBMIT TO ENGINEER FOR APPROVAL BEFORE COMMENCING WORK, SHOP DRAWINGS FOR ALL MECHANICAL MATERIALS AND EQUIPMENT TO BE PROVIDED.

B. PRESENT DATA IN DETAIL 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 INSULATE EQUIPMENT, PIPING AND MISCELLANEOUS ITEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.

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

B. PRODUCTS THAT COME IN CONTACT WITH STAINLESS STEEL SHALL HAVE LEACHABLE CHLORIDE CONTENT OF LESS THAN 50 PPM WHEN TESTED ACCORDING TO ASTM C 871

C. INSULATION FOR USE ON AUSTENTIC STAINLESS STEEL SHALL BE QUALIFIED AS ACCEPTABLE ACCORDING TO ASTM C 795

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

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

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 SENSITIVE TAPE.

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

SECTION 15800

AIR DISTRIBUTION EQUIPMENT

1.0 GENERAL

1.01 SCOPE:

A. PROVIDED ALL AIR DISTRIBUTION DEVICES AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN FOR A COMPLETE AND OPERABLE SYSTEM.

1.02 RELATION TO OTHER WORK:

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.

1.03 DESIGN CONDITIONS:

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 IN THE AIR DEVICE SCHEDULE.

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

C. GUARANTEE: AIR DISTRIBUTION EQUIPMENT SHALL BE GUARANTEED BY THE 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 CLOSER THAN 6 INCHES FROM A WALL SURFACE.

1.04 MANUFACTURER:

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

1.05 APPEARANCE:

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 ARCHITECT PRIOR TO DEVICE FABRICATION.

2.0 PRODUCTS

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

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

B. SPONGE RUBBER GASKETS.

C. ALUMINUM OR STEEL, AS SPECIFIED.

D. COMPANION ADJUSTABLE VOLUME DAMPERS.

3.0 EXECUTION

3.01 GENERAL:

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

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

3.02 SQUARE AIR DEVICES:

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.

B. 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'–0" 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.

PRIOR TO BID/START OF 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 ALL LOUVER SIZES AND LOCATIONS PRIOR TO START OF CONSTRUCTION. LAYOUT ALL EQUIPMENT IN MECHANICAL ROOM TO ENSURE PROPER SPACE AND CLEARANCES ARE AVAILABLE. CONTACT ARCHITECT IMMEDIATELY WITH ANY ISSUES.

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5/5/2024
STATE OF MISSOURI
DANNY EUGENE DOSS
NUMBER E-21634
REGISTERED PROFESSIONAL ENGINEER

SEAL

ACADEMY BANK BRANCH: LEE'S SUMMIT

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PERMIT SET

ISSUE DATE: 05.30.24

REV	DESCRIPTION	DATE

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

M-700

GENERAL NOTES

GENERAL NOTES

1. REFERENCE TO RELATED WORK: "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL, LANDSCAPE, OR KITCHEN), OR ITEM BASED ON A SPECIFIC MANUFACTURER'S DIMENSIONS (VERIFY).
2. ELECTRICAL CHARACTERISTICS: REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL CHARACTERISTICS (VOLTAGES, ETC. OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED.
3. CODES: COMPLETE INSTALLATION OF THE PLUMBING SYSTEM SHALL BE PER THE APPLICABLE BUILDING, MECHANICAL, ENERGY, PLUMBING, FIRE, AND HEALTH CODES AND REGULATIONS AS ADOPTED BY THE LOCAL AHJ.
4. PREPARE AND SUBMIT FOR REVIEW A SHOP DRAWING BASED ON FINAL STRUCTURAL SHOP DRAWINGS FOR LOCATING AND ROUTING ALL EQUIPMENT, PIPING, ETC.
   A. COORDINATE FLOOR AND BEAM PENETRATIONS WITH STRUCTURAL.
   B. COORDINATE FINAL LOCATION AND ROUTING WITH CEILING, LIGHTS, WALLS, FIRE SPRINKLER PIPING, AND OTHER TRADES WORK.
   C. INCLUDE ADDITIONAL OFFSETS, ELBOWS, ROUTING, EQUIVALENT DUCT SIZING EXCHANGE, RELOCATING, ETC. AS REQUIRED FOR A COMPLETE OPERATING MECHANICAL SYSTEM.
   D. PROVIDE SHOP DRAWINGS AT NO ADDITIONAL COST TO THE OWNER.
5. PLUMBING CONTRACTOR SHALL LOCATE AND COORDINATE EXACT LOCATION OF ALL PLUMBING EQUIPMENT WITHIN THE STRUCTURE.
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 DOOR LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO BIDDING.
7. ROOF PENETRATIONS: SEE ARCHITECTURAL DRAWINGS FOR ROOF CAP, ROOF CURB, ROOF DRAIN, AND VTR DETAILS.
8. EXPOSED PIPING: PROVIDE CHROME PLATING FOR EXPOSED PIPING IN FINISHED ROOMS.
9. PENETRATIONS: PROVIDE ESCUTCHEON PLATES FOR EXPOSED PIPING PENETRATIONS AND SHEET METAL FLASHING FOR EXPOSED DUCTWORK PENETRATIONS.
10. SHAFT AND PLENUM CONNECTIONS: SEAL CONNECTIONS TO AIR SHAFTS AIRTIGHT. PROVIDE AIRTIGHT SEAL AROUND PENETRATIONS IN AIR PLENUMS.
11. LIGHT FIXTURE CLEARANCE: COORDINATE LOCATIONS OF MECHANICAL WORK TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND REPLACEMENT.
12. CABLE TRAYS: PIPING INSTALLED ADJACENT TO ELECTRICAL CABLE TRAYS SHALL ALLOW MINIMUM ACCESS OF 6" ABOVE AND TO THE SIDE OF CABLE TRAYS.
13. MOTORS: COMPLY WITH ENERGY CODE ENFORCED BY AHJ FOR MINIMUM EFFICIENCIES UNDER FULL LOAD.
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.

COORDINATION REQUIREMENTS

1. IRRIGATION: COORDINATE WITH IRRIGATION CONTRACTOR FOR THEIR WATER SUPPLY REQUIREMENTS AND LOCATIONS.
2. GAS: CONTRACTOR/GAS COMPANY SHALL FINALIZE GAS METER AND GAS SERVICE LOCATIONS.
3. UTILITIES: COORDINATE WITH SITE UTILITY CONTRACTOR AND CIVIL DRAWINGS FOR UTILITY CONNECTIONS AND EXTENSIONS.
4. ROOF DRAINAGE: COORDINATE WITH GENERAL CONTRACTOR FOR ROOF DRAIN AND OVERFLOWS, SCUPPER DRAINS, AND CONDENSATE DRAINS.
5. PLUMBING FIXTURES: COORDINATE WITH ARCHITECTURAL AND OTHER TRADES EXACT LOCATION OF ALL PLUMBING FIXTURES.
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.
7. ADJUSTMENTS: ALL EQUIPMENT, MOTORS, FANS, GAS 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.
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 INCLUDE ALL COSTS REQUIRED TO MEET THESE REQUIREMENTS IN HIS BID.
9. FIRE PROTECTION: CONTRACTOR SHALL PROVIDE A FULLY 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.

PLUMBING NOTES

1. 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 PLANS.
2. HOT AND COLD: WATER PIPING CONNECTION TO EACH FIXTURE SHALL BE COLD WATER ON THE RIGHT HAND SIDE AND HOT WATER ON THE LEFT HAND SIDE.
3. HOT WATER: NON-CIRCULATING HOT WATER PIPE SHALL NOT EXCEED 10' UNLESS OTHERWISE SHOWN ON DRAWINGS.
4. VENT STACKS: COORDINATE VENT STACK WITH HVAC EQUIPMENT TO MAINTAIN MINIMUM 10' CLEARANCE FROM OUTSIDE AIR INTAKES.
5. CLEANOUTS: PROVIDE CLEANOUTS PER CURRENT CODE AND AS REQUIRED BY LOCAL JURISDICTIONS. CLEANOUTS SHALL 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 CLEANOUTS ARE SHOWN ON THE PLUMBING DRAWINGS.
6. SUDS RELIEF: PROVIDE SUDS RELIEF IN ACCORDANCE WITH CURRENT CPC.
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 FIXTURE. EXCEPTION: PROVIDE SCREWDRIVER STOPS AT BATH/SHOWERS.
8. TUB SPOUTS SHALL BE THREADED (NO PUSH-ON FITTINGS).
9. TRAP ARMS: PROVIDE TRAP ARMS SUCH THAT THE MAXIMUM LENGTH WILL NOT EXCEED CODE REQUIREMENTS.
10. 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.
11. GAS EQUIPMENT: GAS EQUIPMENT SHALL BE INSTALLED PER EQUIPMENT LISTINGS, LOCAL CODES, AND NFPA.
12. GAS CONNECTIONS: INSTALL FLEXIBLE QUICK DISCONNECT ASSEMBLIES FOR ALL GAS FIRED KITCHEN EQUIPMENT PER LOCAL JURISDICTIONS.
13. WATER HAMMER ARRESTERS: PROVIDE AT THE END OF HOT 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 LAUNDRY WASHERS, FLUSH VALVES (PUBLIC TOILETS), ETC.
14. TRAP PRIMERS: PROVIDE TRAP PRIMERS AND PIPING FOR 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.
15. P-TRAPS: ALL EXPOSED P-TRAPS SHALL BE CHROME-PLATED BRASS.
16. PROVIDE BALL VALVES. GATE VALVES SHALL NOT BE USED. NO EXCEPTIONS.
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.
18. DISASSEMBLY PROVISIONS: PROVIDE UNIONS OR FLANGES AT PIPING CONNECTIONS TO EQUIPMENT, COILS, TRAPS, CONTROL VALVES, AND OTHER COMPONENTS TO ALLOW DISASSEMBLY FOR MAINTENANCE.
19. REDUCERS: PROVIDE AS REQUIRED FROM LINE PIPE SIZE TO EQUIPMENT, TRAP, COIL, AND CONTROL VALVE CONNECTION SIZES.
20. OFFSETS: PROVIDE FOR BRANCH LINES TO EQUIPMENT.
21. DIELECTRIC UNIONS: PROVIDE AT CONNECTIONS OF DISSIMILAR PIPE.
22. REFRIGERANT PIPING: PROVIDE SIZING & INSTALLATION IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
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.

INSULATION/LINING NOTES

1. ENERGY CODE: AS A MINIMUM, COMPLY WITH THICKNESSES AND TYPES LISTED IN ENERGY CODE ENFORCED BY AHJ.

PIPE MATERIALS

APPROVED PLUMBING MATERIAL:

ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.

1. UNDERGROUND SERVICE ENTRANCE PIPING: COPPER, TYPE K. PLASTIC WRAP UNDERGROUND WATER SUPPLY PIPING TO PREVENT CORROSION.
2. ABOVEGROUND WATER DISTRIBUTION PIPING IN RESTROOMS: PEX.
3. STORM, VENT AND GRAVITY WASTE: NO-HUB CAST IRON

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.

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.

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.

NOTE 2: TRAP ARM FOR WASTE RECEPTOR OF SODA DISPENSER SHALL BE MADE OF SOLID CORE PVC SCH. 40 ASTM D2665. CAST IRON PIPING IS NOT ALLOWED FOR HIGH ACIDITY DRAINS. (PH<3)

NOTE 3: FOAM (CELLULAR) CORE PVC PIPING/FITTING IS PROHIBITED BY ENGINEERING.

4. CONDENSATE DRAIN PIPING: CPVC OR COPPER TYPE M.
5. TEMPERATURE AND/OR PRESSURE RELIEF VALVE DISCHARGE PIPING: COPPER TYPE M
6. GAS PIPING: STEEL PIPE, ASTM A 53; TYPE E OR S;GRADE B; SCHEDULE 40.

ABBREVIATIONS

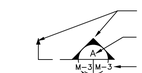
ACU	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
BHP	BRAKE HORSEPOWER
BOH	BACK OF HOUSE
BTUH	BRITISH THERMAL UNIT PER HOUR
C	COMMON
CAP	CAPACITY
CC	COOLING COIL
CD	CONDENSATE DRAIN
CFF	CAPPED FOR FUTURE
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CO	CLEANOUTS
COMB	COMBUSTION
CONT	CONTINUE, CONTROL
CONTR	CONTRACTOR
COTG	CLEANOUTS TO GRADE
CW	COLD WATER
D	DIAMETER
DB	DRY BULB, DECIBEL
DIM	DIMENSION
DN	DOWN
DS	DOWN SPOUT
EFF	EFFICIENCY
ELEC	ELECTRIC
EWC	ELECTRIC WATER COOLER
EXT	EXTERIOR, EXTERNAL
F	FAHRENHEIT
FCO	FLOOR CLEANOUTS
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FLR	FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
G	GAS
GAL	GALLONS
GPG	GRAINS PER GALLON
GPM	GALLONS PER MINUTE
GWB	GYPSUM WALLBOARD
HB	HOSE BIBB
HD	HEAD
HEDV	HOSE END DRAIN VALVE
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPCW	HIGH PRESSURE COLD WATER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HW	HOT WATER
HWC	HOT WATER RE-CIRCULATION
HX	HEAT EXCHANGER
ID	INDIRECT DRAIN, INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
KS	KITCHEN SINK
KW	KILOWATT
L	LONG, LENGTH
LAV	LAVATORY
LB	POUND
MBH	THOUSAND BTU PER HOUR
MECH	MECHANICAL
MCA	MIN. CIRCUIT AMPACITY
MOCP	MAX. OVER CURRENT PROTECTION
MPG	MEDIUM PRESSURE GAS
MTD	MOUNTED
OD	OUTSIDE DIMENSION/DIAMETER
	OVERFLOW DRAIN/DECK DRAIN
OPNG	OPENING
P	PUMP
PD	PRESSURE DROP, PUMPED DRAIN
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
PS	PUMPED STORM DRAINAGE
PSIG	POUNDS PER SQUARE INCH GAUGE
PW	PUMPED SANITARY WASTE
RD	ROOF DRAIN
REF	REFERENCE
PRBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
SCH	SCHEDULE
SCW	SOFTENED COLD WATER
SD	STORM DRAIN
SF	SQUARE FOOT
SH	SHOWER
SO	STORM OVERFLOW
SP	STATIC PRESSURE
SR	SUDS RELIEF
SS	STAINLESS STEEL, SANITARY SEWER
SQ	SQUARE
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VENT
VTR	VENT THRU ROOF
W	WASTE, WATT, WIDE
WC	WATER CLOSET
WCO	WALL CLEANOUTS
WH	WALL HYDRANT
WM	WASHING MACHINE

SYMBOLS

GENERAL

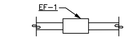
- ARCHITECTURAL BACKGROUND (THIN LINE)
- NEW MECHANICAL WORK (HEAVY LINE)
- MATCHLINE OR PROPERTY LINE

SECTION IDENTIFICATION (DETAIL SIMILAR)



- INDICATES DIRECTION OF CUTTING PLANE
- LETTER INDICATES SECTION (NO. INDICATES DETAIL)
- SHEET NUMBER WHERE SECTION IS DRAWN
- SHEET NUMBER WHERE SECTION IS TAKEN

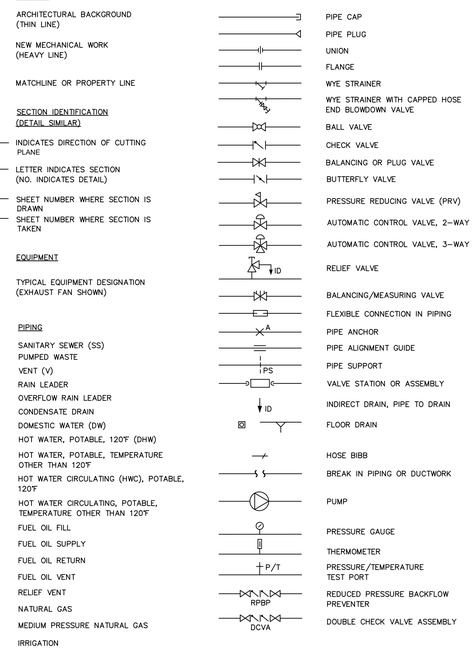
EQUIPMENT



- TYPICAL EQUIPMENT DESIGNATION (EXHAUST FAN SHOWN)

PIPING

- SS — SANITARY SEWER (SS)
- PW — PUMPED WASTE
- V — VENT (V)
- RL — RAIN LEADER
- OL — OVERFLOW RAIN LEADER
- CD — CONDENSATE DRAIN
- - — DOMESTIC WATER (DW)
- - - — HOT WATER, POTABLE, 120°F (DHW)
- - - 140 — HOT WATER, POTABLE, TEMPERATURE OTHER THAN 120°F
- - - - — HOT WATER CIRCULATING (HWC), POTABLE, 120°F
- - - - 140 — HOT WATER CIRCULATING, POTABLE, TEMPERATURE OTHER THAN 120°F
- FOF — FUEL OIL FILL
- FOS — FUEL OIL SUPPLY
- FOR — FUEL OIL RETURN
- FOV — FUEL OIL VENT
- RV — RELIEF VENT
- G — NATURAL GAS
- MPG — MEDIUM PRESSURE NATURAL GAS
- I — IRRIGATION



CONTRACTOR SUBSTITUTIONS & REVISIONS

CONTRACTOR SUBSTITUTIONS & REVISIONS:

PLEASE SUBMIT PROPOSALS FOR SUBSTITUTIONS OR REVISIONS FOR REVIEW AND APPROVAL PRIOR TO ORDERING MATERIAL OR DOING WORK. FOR EQUIPMENT THAT IS SCHEDULED BY MANUFACTURER'S NAME AND CATALOG DESIGNATIONS, THE MANUFACTURER'S PUBLISHED DATA AND/OR SPECIFICATION FOR THAT ITEM ARE CONSIDERED PART OF SPECIFICATION. ENGINEERING COSTS FOR REVISING MEP PLANS SHALL BE ADDRESSED IN THE COST ANALYSIS OF THE SUBSTITUTION PROPOSAL. CONTRACTOR TO COORDINATE WITH ENGINEER AND DETERMINE ASSOCIATED DESIGN AND PERMITTING COSTS. CONTRACTOR SHALL BE RESPONSIBLE FOR OTHER COSTS ASSOCIATED WITH UNFORESEEN ISSUES RESULTING FROM SUBSTITUTIONS OR REVISIONS.

DRAWINGS ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

DRAWING INDEX

APPLICABLE CODES

THESE DRAWINGS ARE BASED ON THE FOLLOWING CODES:

- 2018 INTERNATIONAL BUILDING CODE (IBC)
  2018 INTERNATIONAL MECHANICAL CODE (IMC)
  2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
- 2018 INTERNATIONAL PLUMBING CODE

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ARCHITECT: MIKE KRESS
LICENSE NO. 5715

5/30/2024
STATE OF MISSOURI
DANNY EUGENE CROSS
NUMBER E-21634
REGISTERED PROFESSIONAL ENGINEER
SEAL

ACADEMY BANK BRANCH: LEE'S SUMMIT

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

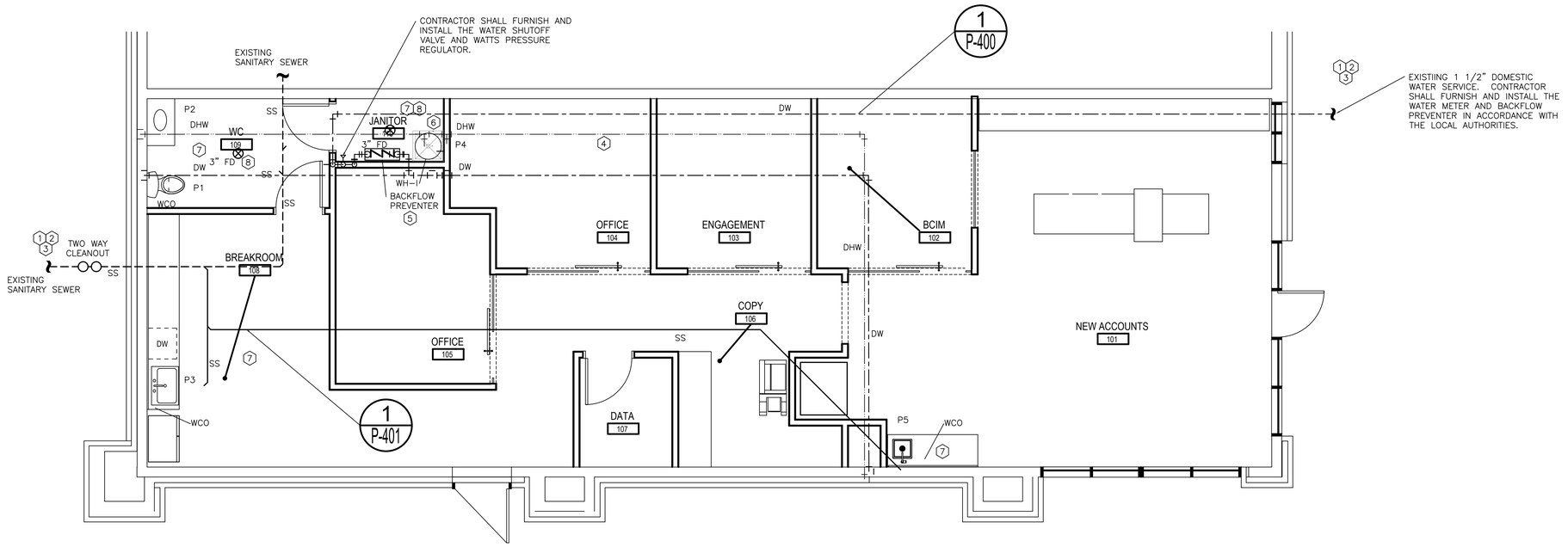
PERMIT SET

ISSUE DATE: 05.30.24

REV	DESCRIPTION	DATE

PROJECT NO. 16014
DRAWN BY:
CHKD BY:
SHEET TITLE

P-000



1 WATER AND SEWER MAINS PLAN

Scale: 1/4" = 1'

MOUNTING HEIGHT SCHEDULE

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

WATER SUPPLY CALCULATION

SITE LOCATION: LEE SUMMIT, MISSOURI

STATIC PRESSURE:	70 PSI	(ASSUMED)
TOTAL F.U.:	14	
GPM: BUILDING USAGE	17	
GPM: IRRIGATION USAGE	0	
TOTAL PROJECTED WATER USAGE	17	GPM
WATER METER:	3/4"	

FIXTURE UNIT CALCULATION:

(1) WC	5 x 1 =	5
(3) LAV	2 x 3 =	6
(1) MS	3 x 1 =	3
TOTAL F.U. =		14

70	PSI	PRESSURE IN MAIN
– 5	PSI	LOSS THROUGH 3/4" METER
– 2	PSI	LOSS THROUGH TAP
–20	PSI	FIXTURE OPERATING PRESSURE
–5.2	PSI	DROP FOR ELEVATION (12 FT.)
–15	PSI	BACKFLOW PREVENTER
25.8	PSI	AVAILABLE PRESSURE

PIPE LENGTH (TAP TO METER)	50 FT.	(ESTIMATED)
PIPE LENGTH (METER TO BUILDING)	30 FT.	(ESTIMATED)
PIPE LENGTH (TO FURTHEST FIXTURE)	145 FT.	
VERTICAL LENGTH	10 FT.	
EQUIVALENT LENGTH OF FITTINGS	55 FT.	
TOTAL DEVELOPED LENGTH	290 FT.	

MAX. ALLOWED LOSS (PER 100 FT. OF PIPE) = AVAILABLE PRESSURE: 25.8 PSI / TOTAL DEVELOPED LENGTH: 290 FT. X 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

1. CONTRACTOR SHALL CONFIRM EXACT LOCATION OF EXISTING SEWER AND WATER LINE AND EXISTING WATER METER WITH LOCAL UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF UTILITIES OUTSIDE THE BUILDING THAT WORK MAY INTERFERE WITH OR CROSS.
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	MFGR	CATALOG NUMBER	TRIM	RUNOUT SIZES (MINIMUM) CW	HW	WASTE	VENT	NOTES
P1	ELONGATED FLUSHTANK TOILET	KOHLER	ELMBROOK K–45983	BREVIA QUICK RELEASE ELONGATED TOILET SEAT	1/2"	----	3"	2"	B,C,E,F
P2	WALL–MOUNT BATHROOM LAVATORY WITH SHROUD	KOHLER	K–1999–SS1	KOHLER K–13469 GEOMETRIC INSIGHT TOUCHLESS FAUCET WITH KOHLER K–13481 MULTI–OUTLET POWER SUPPLY. CONTRACTOR SHALL FURNISH AND INSTALL A WATTS LFMMV– MIXING VALVE TO SERVE THE FAUCETS (SET TO 110 F).	1/2"	1/2"	1 1/2"	1 1/2"	A,B,C,D, E,G
P3	UNDER COUNTER LAVATORY	BLANCO	518478	FAUCET: MOEN S62308	1/2"	1/2"	1 1/2"	1 1/2"	A,B,D,G
P4	SERVICE SINK	FIAT	FL7TG100	FIBERGLASS REINFORCED POLYESTER RESIN. COMES WITH MOUNTING LEGS, HARDWARE, P–TRAP, SUPPLY LINE, CHROME PLATED FAUCET, TAILNUT AND STOPPER.	3/4"	3/4"	3"	1 1/2"	A,B,
P5	UNDER COUNTER LAVATORY	BLANCO	518478	FAUCET: MOEN S62308	1/2"	1/2"	1 1/2"	1 1/2"	A,B,D,G

NOTES:
A. CHROME PLATED BRASS "P" TRAP.
B. FLEXIBLE SUPPLIES WITH KEYED STOPS.
C. ACCEPTABLE MANUFACTURERS ARE AMERICAN STANDARD, ELJER , AND KOHLER.
D. HOT WATER LINE SHALL BE INSULATED BETWEEN WALL AND FIXTURE.
E. FIXTURES SHALL BE WHITE COLOR UNLESS OTHERWISE NOTED.
F. HANDICAP WATER CLOSETS SHALL HAVE FLUSH HANDLE ON WIDE SIDE OF TOILET STALL. COORDINATE WITH GRAB–BARS.
G. CONTRACTOR SHALL FURNISH AND INSTALL WATTS LFMMV– MIXING VALVES TO SERVE THE FAUCETS (SET TO 110 F).

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

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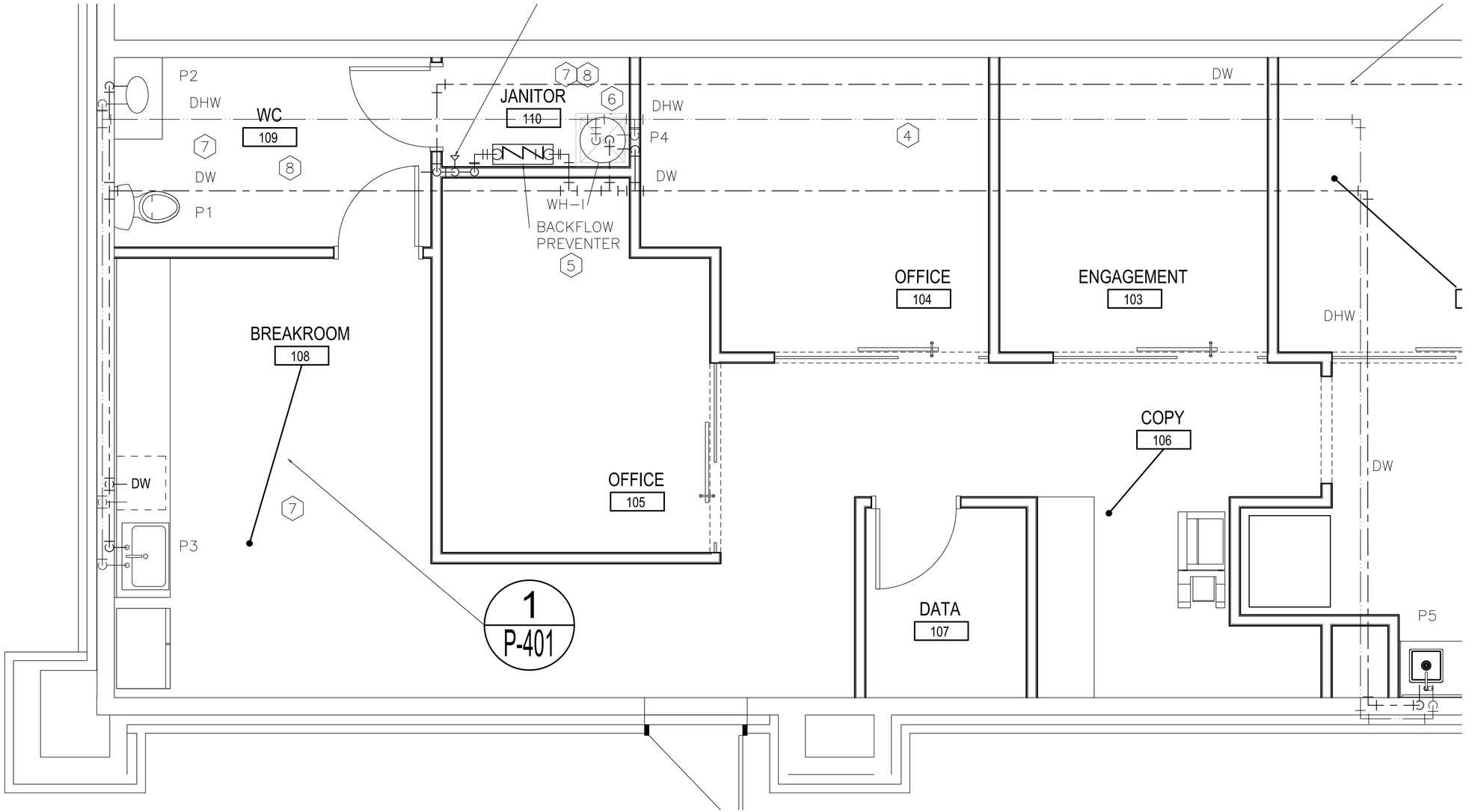

1 ENLARGED DOMESTIC WATER PLAN
SCALE: 1/2" = 1'-0"

PRIOR TO BID/START OF CONSTRUCTION REQUIREMENTS

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6/5/2024
STATE OF MISSOURI
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REGISTERED PROFESSIONAL ENGINEER
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PERMIT SET

ISSUE DATE: 05.30.24

REV	DESCRIPTION	DATE

PROJECT NO. 16014
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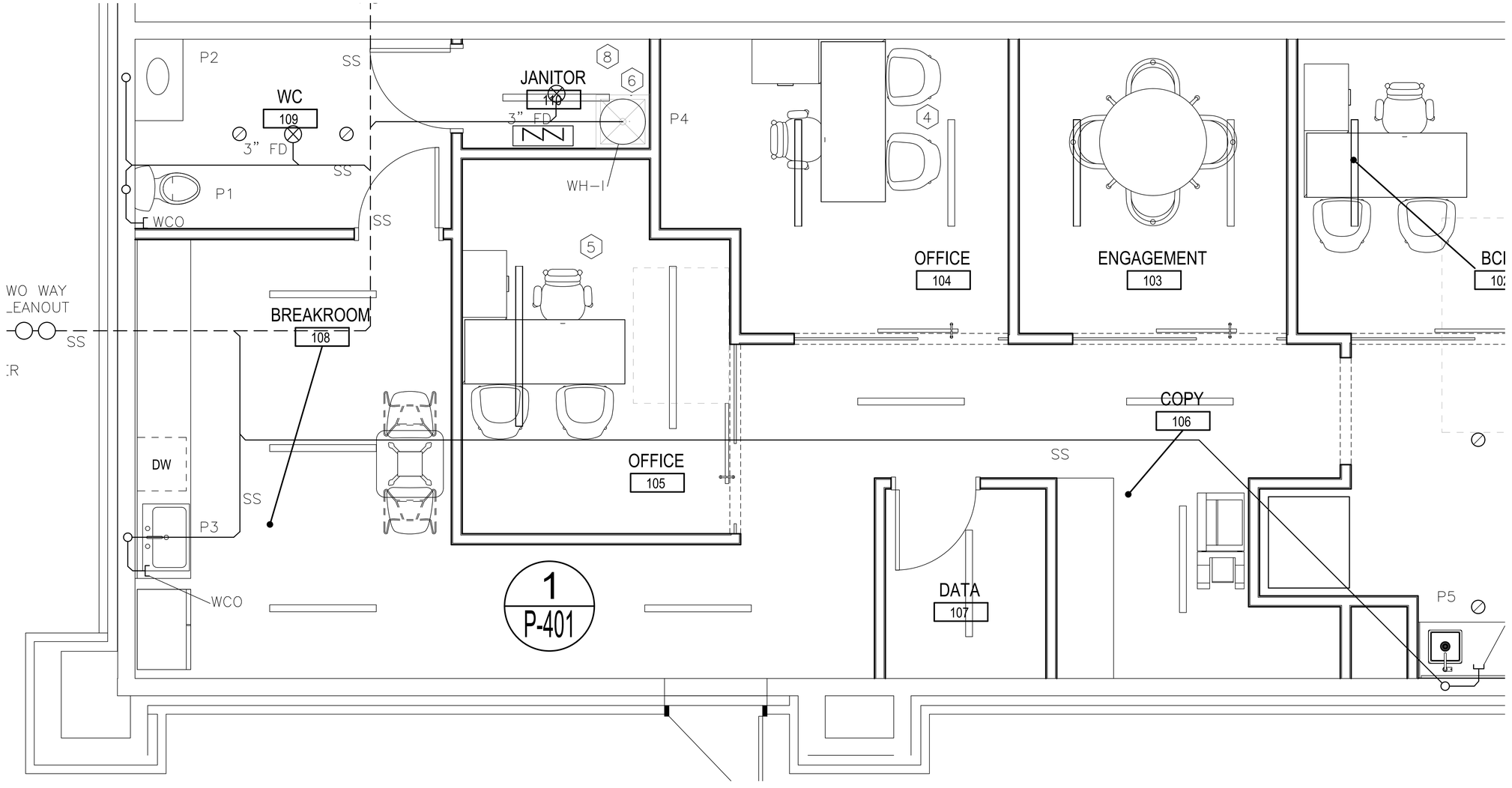

1 ENLARGED SANITARY SEWER PLAN
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PROJECT NO. 16014
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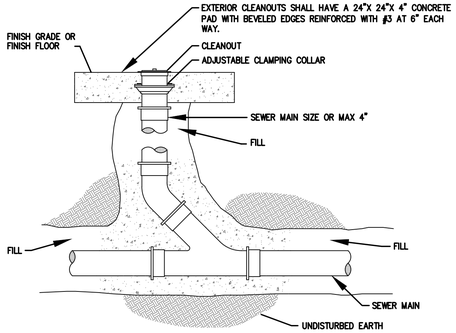
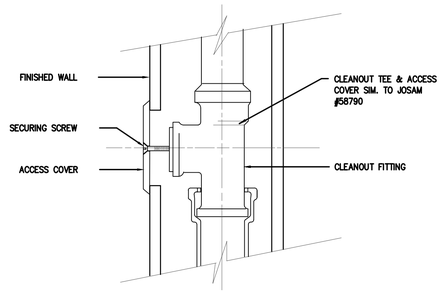
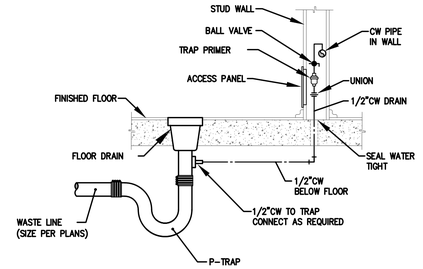


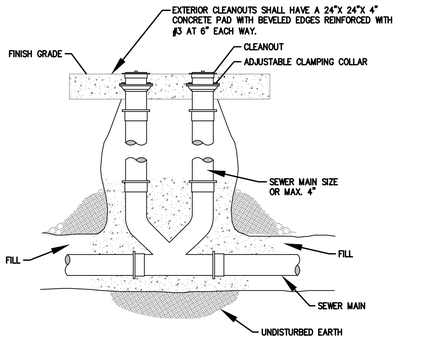
1 CLEANOUT — SCALE: NTS



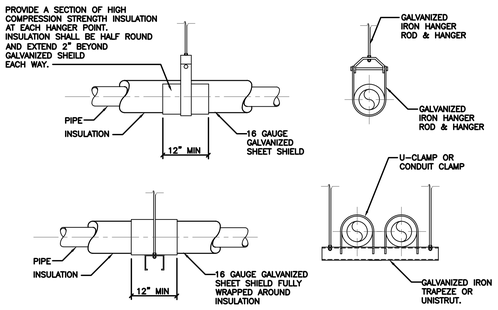
2 WALL CLEANOUT — SCALE: NTS



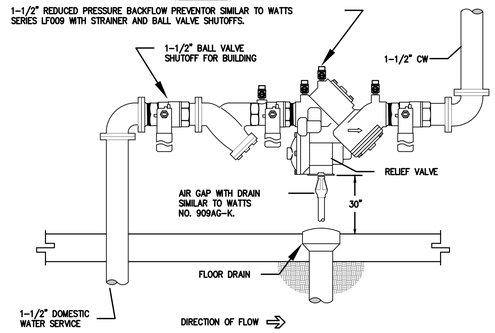
3 TRAP PRIMER TO FLOOR DRAIN — SCALE: NTS



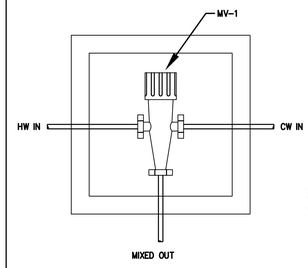
4 TWO WAY CLEANOUT — SCALE: NTS



5 PIPE HANGER DETAILS — SCALE: NTS

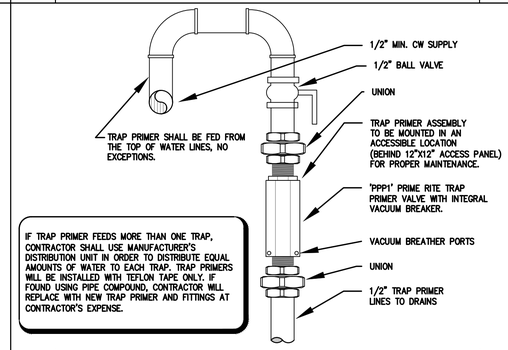


6 REDUCED PRESSURE BACKFLOW PREVENTOR — SCALE: NTS

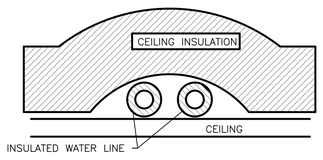


SYMMONS THERMIXER THERMOSTATIC MIXING VALVE IN CABINET WITH HINGED COVER. USE WITH EACH HAND SINK 110°F MAX TEMP.

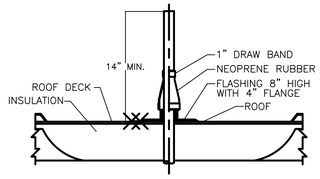
7 TEMPERING VALVE — SCALE: NTS



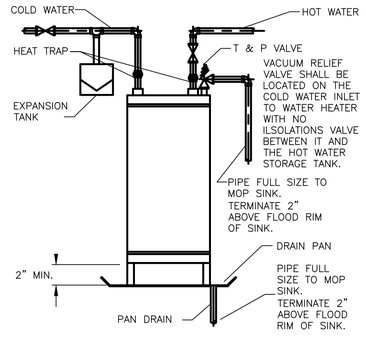
8 TRAP PRIMER — SCALE: NTS



9 WATER LINE PLACEMENT IN ATTIC — SCALE: NTS



10 VENT THRU ROOF — SCALE: NTS



11 GAS WATER HEATER — SCALE: NTS

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1/5/24
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PROJECT NO. 16014
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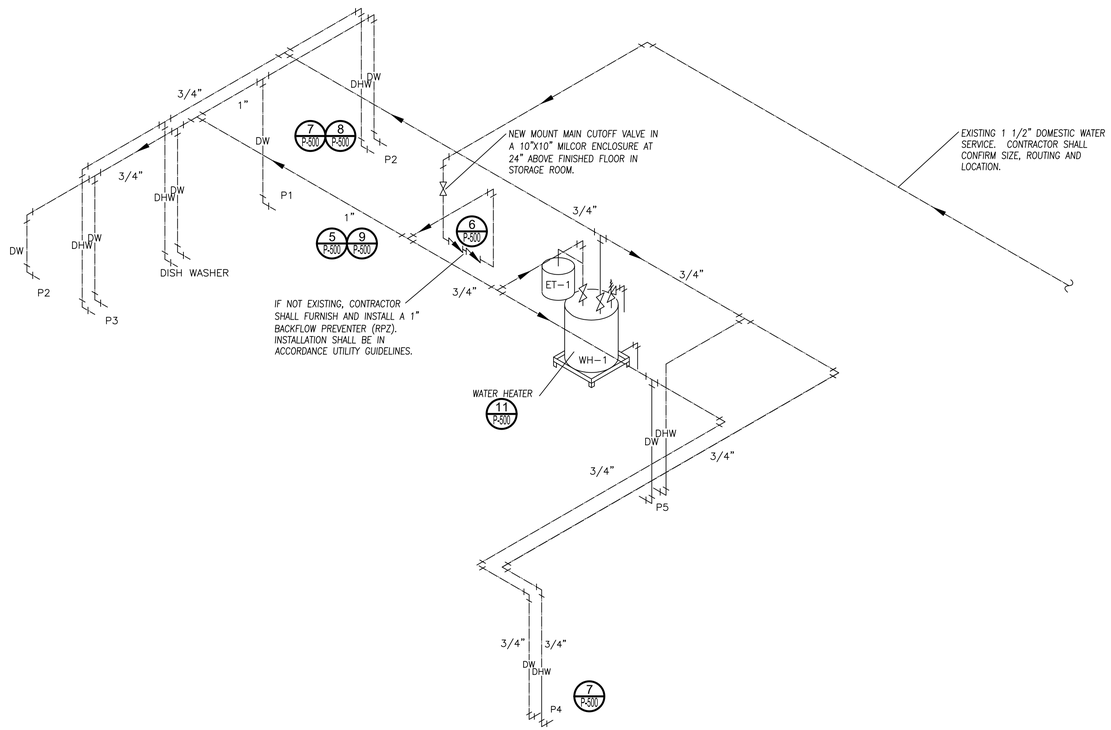
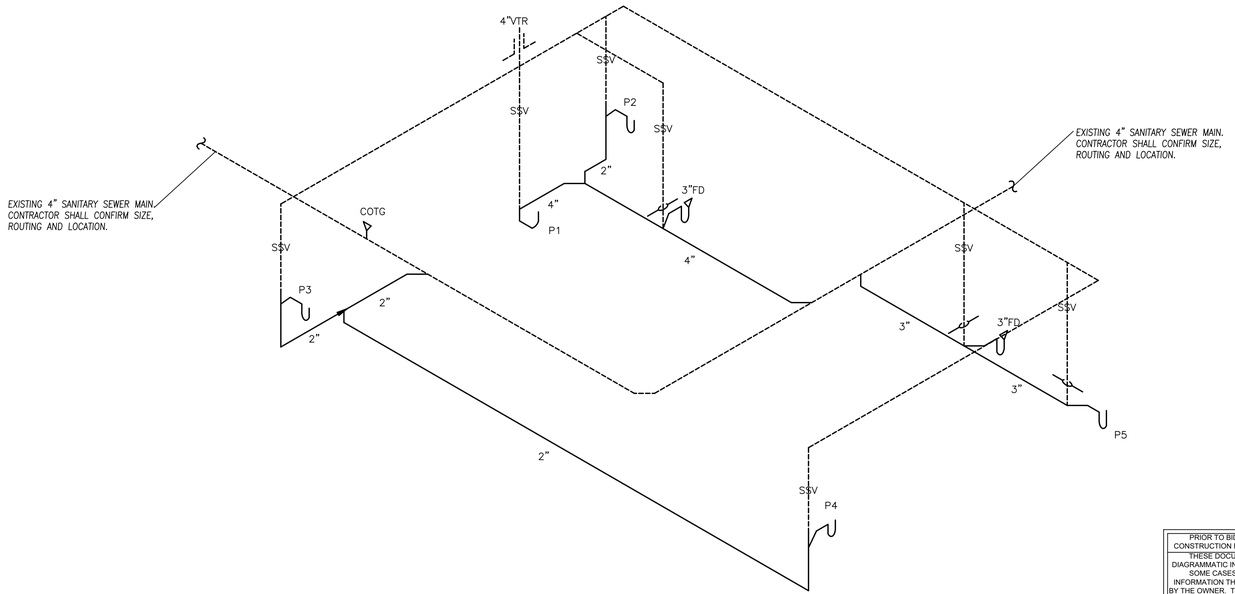


1 DOMESTIC WATER RISER
N.T.S.



2 DOMESTIC WATER RISER
N.T.S.

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STATE OF MISSOURI REGISTERED PROFESSIONAL ENGINEER DANNY EUGENE CROSS NUMBER E-21634
05/15/2024

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ISSUE DATE: 05.30.24

REV	DESCRIPTION	DATE

PROJECT NO. 16014
DRAWN BY:
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P-600

SANITARY DRAIN, WASTE, AND VENT PIPING SYSTEM
SECTION 15411

PART 1 GENERAL

1.01 WORK INCLUDED:

A. UNDERGROUND DRAIN AND VENT PIPING.
B. ABOVE GROUND DRAIN, WASTE, AND VENT PIPING.
C. SANITARY SEWER SERVICE PIPING.
D. CONDENSATION DRIP AND OVERFLOW PIPING.
E. CLEANOUTS.
F. FLOOR DRAINS.

1.02 RELATED WORK:

A. SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.

1.03 SUBMITTALS:

A. SUBMIT MANUFACTURER'S DATA SHEETS ON CLEAN OUTS AND FLOOR DRAINS.
B. SUBMIT LIST OF PIPING PRODUCTS TO BE USED FOR THE LISTED SERVICES AND STATE THEIR MANUFACTURERS, CLASSES OR TYPES, AND OTHER APPLICABLE DATA.
C. SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION AND ROUTING OF INSTALLED PIPING.
D. SUBMIT SHOP DRAWINGS ON MANHOLES INDICATING MANUFACTURED ITEMS, REINFORCING STEEL REQUIREMENTS, ETC.

PART 2 PRODUCTS

2.01 PIPING:

A. UNDERGROUND DRAIN AND VENT PIPING INSIDE BUILDING AND TO FIVE FEET OUTSIDE BUILDING:
   1. SCHEDULE 40 PVC PIPE AND FITTINGS.
B. ABOVE GROUND DRAIN AND VENT PIPING:
   1. SCHEDULE 40 PVC PIPE AND FITTINGS.
C. WASTE ARMS FOR LAVATORIES, SINKS, AND URINALS:
   1. DWV COPPER PIPE WITH CAST BRASS ADAPTERS AND WROUGHT COPPER FITTINGS AND JOINTS MADE WITH 50–50 SOLDER.
   2. SCHEDULE 40 GALVANIZED STEEL PIPE WITH SCREWED FITTINGS (OPTIONAL).
D. UNDERGROUND SEWER PIPING OUTSIDE BUILDING TO SEWER MAIN:
   1. SCHEDULE 40 PVC PIPE AND FITTINGS.
E. CONDENSATION DRIP AND OVERFLOW PIPING: SOLVENT–CEMENT WELD.

2.02 CLEAN OUTS:

A. PROVIDE CLEAN OUTS COMPATIBLE WITH TYPE OF DRAIN PIPING TO WHICH IT IS CONNECTED. PROVIDE COVERS COMPATIBLE WITH TYPE OF FLOOR OR WALL FINISH WITH CONSIDERATION GIVEN TO TRAFFIC CONDITIONS. MAKE CLEAN OUTS SAME SIZE AS PIPE THROUGH 4 INCHES.
B. FLOOR CLEAN OUT (FCO): CAST IRON WITH TAPERED BRASS PLUG, THREADED ADJUSTABLE HOUSING, AND ROUND NICKEL BRONZE SCORIATED TOP.
C. CLEAN OUT TO GRADE (COTG): SAME AS FCO EXCEPT WITH HEAVY DUTY CAST IRON SCORIATED TOP. SET COTG IN 10–INCH DIAMETER CONCRETE BASE 4–INCHS THICK AND FLUSH WITH FINISHED GRADE.

2.03 FLOOR DRAINS:

A. STANDARD FLOOR DRAIN (FD): LACQUERED CAST IRON BODY WITH FLANGE, CLAMPING COLLAR WITH SEEPAGE OPENINGS, AND ADJUSTABLE SQUARE SATIN BRONZE STRAINER. FLOOR DRAINS ARE 2 INCHES UNLESS SHOWN OTHERWISE.

PART 3 EXECUTION

3.01 PREPARATION:

A. SWAB PIPES AND CLEAN JOINTS AND FITTINGS INSIDE AND OUT PRIOR TO MAKING CONNECTIONS. USE PROPER LUBRICANTS ON COMPRESSION GASKETS.

3.02 INSTALLATION:

A. UNLESS INDICATED OTHERWISE ON THE DRAWINGS, SLOPE HORIZONTAL DRAIN AND VENT PIPING IN ACCORDANCE WITH THE FOLLOWING:

SIZE	MINIMUM SLOPE
3" AND SMALLER	1/4" PER FOOT
4" AND LARGER	1/8" PER FOOT

B. BURY ALL UNDERGROUND OUTSIDE SEWER PIPE A MINIMUM OF 2 FEET FROM FINISHED GRADE.
C. MAKE CLEAN OUT FREE FROM LEAKS. LUBRICATE CLEAN OUT PLUGS WITH MIXTURE OF GRAPHITE AND LINSEED OIL AND DO NOT OVER TIGHTEN.
D. ARRANGE WITH LOCAL UTILITY FOR SEWER TAP AND PAY ALL COSTS TO ESTABLISH SEWER SERVICE.

3.03 TESTING:

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 30 MINUTES.
   2. AIR TEST – SUBJECT SYSTEM TO AT LEAST 5 PSIG AIR PRESSURE FOR 30 MINUTES. (OPTIONAL)

END OF SECTION

DOMESTIC WATER PIPING SYSTEM
SECTION 15412

PART 1 GENERAL

1.01 WORK INCLUDED:

A. WATER SERVICE PIPING.
B. HOT AND COLD WATER PIPING.
C. TEMPERATURE AND PRESSURE (T & P) RELIEF PIPING.
D. VALVES.
E. SHOCK SUPPRESSORS.

1.02 RELATED WORK:

A. SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.
B. SECTION 15005 MECHANICAL INSULATION.

1.03 SUBMITTALS:

A. SUBMIT MANUFACTURE'S DATA SHEETS ON VALVES AND SHOCK SUPPRESSORS.
B. SUBMIT LIST OF PIPING PRODUCTS TO BE USED AND STATE THEIR MANUFACTURERS, CLASSES OR TYPES, AND OTHER APPLICABLE DATA.
C. SUBMIT SHOP DRAWINGS OF SHOCK SUPPRESSORS LAYOUT PROPOSED.
D. SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION AND ROUTING OF INSTALLED PIPING.
E. SUBMIT CERTIFICATE OF COMPLETION OF CHLORINATION.

PART 2 PRODUCTS

2.01 PIPING:

A. FOR UNDERGROUND WATER SERVICE PIPING OUTSIDE BUILDING TO WATER METER:
   1. ASTM B88 TYPE AS INDICATED ON DRAWINGS HARD COPPER TUBING WITH WROUGHT COPPER FITTINGS AND JOINTS MADE WITH 95–5 SOLDER.
   2. THICKNESS CLASS 50, CEMENT LINED, SEAL COATED, HUB AND SPIGOT TYPE DUCTILE IRON WITH JOINTS MADE WITH RUBBER COMPRESSION RINGS MANUFACTURED FOR THE PURPOSE. (OPTIONAL)
B. FOR UNDERGROUND WATER PIPING INSIDE BUILDING AND TO FIVE FEET OUTSIDE BUILDING
   1. 1" AND SMALLER – ASTM B88 TYPE AS INDICATED ON DRAWINGS SOFT COPPER TUBING WITH NO FITTINGS OR JOINTS PERMITTED UNDER SLAB. MAKE CONNECTIONS ABOVE SLAB USING WROUGHT COPPER FITTINGS AND 95–5 SOLDER.
   2. 1–1/4" AND LARGER – ASTM B88 TYPE AS INDICATED ON DRAWINGS HARD COPPER TUBING WITH WROUGHT COPPER FITTINGS AND JOINTS MAKE WITH SIL–FOS SOLDER (15% SILVER CONTENT).
C. FOR EXPOSED PIPING IN TOILET ROOMS AND OTHER FINISHED AREAS, USE CHROME PLATED BRASS PIPE WITH THREADED FITTINGS.
D. FOR ABOVE GROUND WATER AND T & P RELIEF PIPING INSIDE BUILDING, USE ASTM B88 TYPE AS INDICATED ON DRAWINGS HARD COPPER TUBING WITH WROUGHT COPPER FITTINGS AND JOINTS MADE WITH 95–5 SOLDER.
E. SOLDER CONTAINING LEAD SHALL NOT BE USED ON POTABLE WATER SYSTEMS.

2.02 VALVES:

A. PROVIDE VALVES WITH SUITABLE MATERIALS INCLUDING DISC, PLUGS, BALLS, GASKETS, LININGS, AND LUBRICANTS FOR THE SERVICE, TEMPERATURE, AND PRESSURE TO WHICH THEY WILL BE EXPOSED. FURNISH WITH SOLDER OR SCREWED CONNECTIONS.
B. GATE VALVES: BRONZE, NON–RISING STEM, INSIDE CREW, DOUBLE WEDGE.
C. GLOBE OR ANGLE VALVES: BRONZE, RISING STEM, INSIDE CREW, RENEWABLE COMPOSITION DISC.
D. CHECK VALVES: BRONZE WITH SWING DISC.
E. FREEZE PROOF HOSE BIBBS (FPHB): 3/4" ANTI–SIPHON NON–FREEZE TYPE WITH BRONZE CASING AND BOX WITH LOOSE KEY HANDLE. FURNISH FOR PROPER WALL THICKNESS.

PART 3 EXECUTION

3.01 PREPARATION:

A. REAM PIPES AND TUBING AND THOROUGHLY CLEAN INSIDE AND OUTSIDE PRIOR TO CONNECTING.

3.02 INSTALLATION:

A. SLOPE WATER PIPING MINIMUM OF 1 INCH IN 40 FEET AND ARRANGE TO DRAIN AT ALL LOW POINTS.
B. 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.
D. USE PROPER ADAPTERS FOR SCREWED VALVES TO COPPER PIPING.
E. USE TEFLON TAPE OR OTHER APPROVED JOINTS COMPOUND TO CONNECT THREADED PIPE.
F. CONNECT TO T & P RELIEF VALVE AND EXTEND FULL SIZE TO APPROVED DISCHARGE POINT.
G. 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.
H. ARRANGE WITH LOCAL UTILITY FOR WATER TAP AND METER INSTALLATION. PAY ALL COSTS TO ESTABLISH WATER SERVICES.

3.02 INSTALLATION CONTINUED:

I. INSTALL GATE VALVE TO ISOLATE OR SHUT–OFF EQUIPMENT OR BRANCH LINES. USE GLOBE VALVES WHERE ADJUSTABLE FLOW OR THROTTLING IS REQUIRED.
J. INSTALL HOSE BIBBS CENTERLINE, 2 FEET ABOVE FLOOR OR GRADE. INSTALL GARBAGE CAN WASH VALVE 4 FEET ABOVE FLOOR OR DRAIN.
K. PROVIDE PRV TO LIMIT MAXIMUM STATIC PRESSURE AT PLUMBING FIXTURES TO 70 PSIG. SUBMIT PRESSURE DATA TAKEN AT DIFFERENT TIMES AS APPROVED OR INSTALL PRV AT SERVICE CONNECTION OR IN BUILDING. PROVIDE PRV AT OTHER SEPARATE FIXTURES WHEN SHOWN ON DRAWINGS.
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.

3.03 TESTING:

A. BEFORE CONCEALING OR INSULATING, TEST DOMESTIC WATER PIPING AND PROVE LEAK FREE. SUBJECT SYSTEM TO MINIMUM HYDROSTATIC PRESSURE OF 100 PSIG AND HOLD FOR ONE HOUR.

3.04 STERILIZATION:

A. AFTER TESTS HAVE BEEN SUCCESSFULLY COMPLETED, THOROUGHLY FLUSH AND STERILIZE THE COMPLETED DOMESTIC WATER SYSTEM IN ACCORDANCE WITH AWWA C601.
B. FLUSH ENTIRE SYSTEM AFTER STERILIZATION UNTIL RESIDUAL CHLORINE CONTENT IS NO GREATER THAN 0.2 PARTS PER MILLION.
C. CHLORINATE ONLY WHEN THE BUILDING IS UNOCCUPIED.

END OF SECTION

NATURAL GAS PIPING SYSTEM
SECTION 15413

PART 1 GENERAL

1.01 WORK INCLUDED:

A. UNDERGROUND NATURAL GAS SERVICE PIPING.
B. INTERIOR NATURAL GAS PIPING.
C. EXTERIOR EXPOSED NATURAL GAS PIPING.
D. CONNECTORS FOR APPLIANCES AND OTHER EQUIPMENT.
E. COCKS.

1.02 RELATED WORK:

A. SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.

1.03 SUBMITTALS:

A. SUBMIT MANUFACTURER'S DATA SHEETS ON GAS COCKS.
B. SUBMIT LIST OF PIPING PRODUCTS TO BE USED AND STATE THEIR MANUFACTURERS, CLASSES OR TYPES, AND THERE APPLICABLE DATA.
C. SUBMIT RECORD DRAWINGS INDICATING ACTUAL LOCATION AND ROUTING OF PIPING AS INSTALLED.

1.04 QUALITY ASSURANCE:

A. CONFORM TO ASME CODE AND APPLICABLE STATE REGULATIONS WITH ALL WELDING MATERIALS AND WELDING OPERATOR'S QUAIFICATIONS. USE ONLY OPERATORS FULLY QUALIFIED AND CERTIFIED UNDER THE REQUIREMENTS OF THE ARKANSAS GAS PIPELINE CODE (AFPC).

PART 2 PRODUCTS

2.01 PIPING:

A. UNDERGROUND PIPING:
   1. PLASTIC PIPE OR TUBING AND FITTINGS CONFORMING WITH ASTM D 2513. REINFORCED EPOXY RESIN GAS PIPE AND FITTINGS CONFORMING TO ASTM D 2517 FOR OUTSIDE UNDERGROUND USE ONLY. PLASTIC SHALL BE USED ONLY BELOW GRADE. PLASTIC PIPE AND FITTINGS SHALL BE JOINED BY APPROVED METHODS AND MANUFACTURING INSTRUCTIONS. MILL COAT PIPE WITH HIGH DENSITY POLYETHYLENE OVER ADHESIVE UNDERCOATING.
   2. WRAP FIELD JOINTS AND FITTINGS WITH REPUBLIC "X–TRU–TAPE" OR EQUAL PER MANUFACTURER'S RECOMMENDATIONS.
   3.
B. ABOVE GROUND PIPING:
   1. SCHEDULE 40 BLACK STEEL OR GALVANIZED STEEL WITH MALLEABLE IRON FITTINGS OR WELDED JOINTS WITH BUTTWELD FITTINGS. STAINLESS STEEL TUBING, FITTINGS, AND ACCESSORIES SHALL BE TESTED, LISTED, AND INSTALLED PER ANSI/AGA LC–1, MFPA AND FACTORY MUTUAL. SHALL HAVE POLYETHYLENE JACKET. SHALL MEET STATE AND LOCAL APPROVALS. SHALL BE EQUAL TO TRACE PIPE BY OMEGA FLEX.
C. CONNECTORS FOR APPLIANCES AND OTHER EQUIPMENT:
   1. PVC COOLED SPIRAL FLEXIBLE BRASS CONNECTOR WITH BRASS FLARED GAS TUBING FITTINGS.
D. CATHODIC PROTECTION – PACKAGED MAGNESIUM ANODES.
E. WELDING ROD – SAME MATERIAL AS PIPE.

2.02 GAS COCKS:

A. IRON BODY WITH BRASS PLUG AND WASHER WITH SCREWED OR FLANGED ENDS RATED FOR 125 LB. WOG.

PART 3 EXECUTION:

3.01 PREPARATION:

A. REAM PIPES AND TUBING PRIOR TO CONNECTION.
B. REMOVE WELDING SLAG FROM WELDED CONNECTIONS.

3.02 INSTALLATION:

A. SLOPE NATURAL GAS PIPING MINIMUM OF 1 INCH IN 40 FEET AND PROVIDE MINIMUM 12 INCH DEEP DRIP POCKET SAME SIZE AS PIPE, AT ALL LOW POINTS AND AT FINAL CONNECTIONS TO EQUIPMENT. PROVIDE MALLEABLE IRON REMOVABLE SCREW–ON CAP ON BOTTOM OF DRIP POCKET.
B. BUY UNDERGROUND GAS PIPING MINIMUM OF 2 FEET BELOW FINISHED GRADE.
C. PROVIDE ONE OR MORE ANODES, SIZED FOR PIPE SIZE AND LENGTH OF UNDERGROUND SERVICE.
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.
F. WELD ALL CONNECTIONS WHERE PIPING MUST BE CONCEALED. PROVIDE VENTILATED PIPE SLEEVES WHERE REQUIRED.
G. USE TEFLON TAPE OR OTHER APPROVED JOINT COMPOUND TO CONNECT THREADED PIPE.
H. ARRANGE WITH LOCAL UTILITY FOR GAS TAP AND METER INSTALLATION. PAY ALL COSTS TO ESTABLISH NATURAL GAS SERVICE.
I. 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.
J. PROVIDE VENTILATED PIPE SLEEVES UNDER ALL PAVING AND OTHER HARD SURFACES.
K. BOND INTERIOR METAL GAS PIPING TO THE ELECTRICAL SYSTEM GROUND. PIPING SHALL BE ELECTRICALLY CONTINUOUS.
L. INSTALL CONTINUOUS STRIP OF PLASTIC UTILITY MARKER TAPE OVER GAS PIPING. USE STRIP WITH TRACE WIRE FOR PLASTIC PIPE.
M. IDENTIFY AND LABEL MEDIUM PRESSURE GAS PIPING AT BOTH ENDS AND THE 6 FOOT INTERVALS IN BETWEEN.
N. CONTRACTOR SHALL COORDINATE WITH LOCAL GAS COMPANY THE STANDARD GAS PRESSURE. SHOULD THE SYSTEM EXCEED THE STANDARD GAS PRESSURE AND USE MEDIUM OR HIGH PRESSURE GAS CONTRACTOR SHALL PROVIDE A GAS REGULATOR AT EACH PIECE OF EQUIPMENT REQUIRING GAS SHOULD LOCATIONS NOT BE SHOWN ON DRAWINGS. PROVIDE VENTING ACCORDINGLY SHOULD THE REGULATOR BE INSTALLED INSIDE THE BUILDING.

3.03 TESTING:

A. BEFORE CONCEALING, TEST NATURAL GAS PIPING SYSTEM AND PROVE LEAK FREE. SUBJECT SYSTEM TO AT LEAST 50 PSIG AIR PRESSURE FOR 3 MINUTES.
B. CHECK UNDERGROUND PIPING COATING WITH A "HOLIDAY" DETECTOR AND PROVE FREE FROM LEAKAGE CURRENTS THROUGH COATING.

END OF SECTION

INSULATION
SECTION 15414

PART 1 GENERAL

1.01 WORK INCLUDED:

A. INSULATION MATERIALS.
B. INSULATING CEMENTS.
C. ADHESIVES.
D. MASTICS.
E. SEALANTS.
F. FACTORY–APPLIED JACKETS.
G. FIELD–APPLIED FABRIC–REINFORCING MESH.
H. FIELD–APPLIED JACKETS.
I. TAPES.
J. SECUREMENTS.
K. CORNER ANGLES.

1.02 RELATED WORK:

A. SECTION 15000 GENERAL MECHANICAL REQUIREMENTS.
B. SECTION 15005 MECHANICAL INSULATION.

1.03 SUBMITTALS:

A. PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED.
B. SHOP DRAWINGS DETAILING APPLICATION OF PROTECTIVE SHIELDS, SADDLES, AND INSERTS AT HANGERS FOR EACH TYPE OF INSULATION AND HANGER.
C. DETAIL ATTACHMENT AND COVERING OF HEAT TRACING INSIDE INSULATION.
D. DETAIL INSULATION APPLICATION AT PIPE EXPANSION JOINTS FOR EACH TYPE OF INSULATION.
E. DETAIL INSULATION APPLICATION AT ELBOWS, FITTINGS, FLANGES, VALVES, AND SPECIALTIES FOR EACH TYPE OF INSULATION.
F. DETAIL REMOVABLE INSULATION AT PIPING SPECIALTIES, EQUIPMENT CONNECTIONS, AND ACCESS PANELS.
G. DETAIL APPLICATION OF FIELD–APPLIED JACKETS.
H. DETAIL APPLICATION AT LINKAGES OF CONTROL DEVICES.
I. DETAIL FIELD APPLICATION FOR EACH EQUIPMENT TYPE.
J. FIELD QUALITY–CONTROL REPORTS.

PART 1 GENERAL

2.01 PRODUCTS:

A. INSULATION MATERIALS.
   1. PRODUCTS SHALL NOT CONTAIN ASBESTOS, LEAD, MERCURY, OR MERCURY COMPOUNDS.
   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.
      FOAM INSULATION MATERIALS SHALL NOT USE CFC OR HCFC BLOWING
   4. AGENTS IN THE MANUFACTURING PROCESS.
   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:
B. FLEXIBLE ELASTOMERIC: CLOSED–CELL, SPONGE OR EXPANDED–RUBBER MATERIALS.
C. HIGH–TEMPERATURE, MINERAL–FIBER BLANKET INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN.
D. HIGH–TEMPERATURE, MINERAL–FIBER BOARD INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN.
   MINERAL–FIBER, PERFORMED PIPE INSULATION.
E. MINERAL–FIBER, PIPE AND TANK INSULATION. MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN.
F. POLYOLEFIN: UNICELLULAR, POLYETHYLENE THERMAL PLASTIC INSULATION.
G. POLYSTYRENE: RIGID, EXTRUDED CELLULAR POLYSTYRENE INTENDED FOR USE AS THERMAL INSULATION.

2.02 INSULATING CEMENTS:

A. MINERAL–FIBER, HYDRAULIC–SETTING INSULATING AND FINISHING CEMENT: COMPLY WITH ASTM C 449/C 449M.

2.03 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.
   1. CELLULAR–GLASS POLYSTYRENE.
   2. FLEXIBLE ELASTOMERIC AND POLYOLEFIN.
   3. MINERAL–FIBER.
   4. POLYSTYRENE.
   5. ASJ, FSK, AND PVDC JACKET ADHESIVE.
   6. PVC JACKET.

2.04 MASTICS:

A. VAPOR–BARRIER MASTIC
B. BREATHER MASTIC.

2.05 SEALANTS:

A. JOIN SEALANT.
B. FSK AND METAL JACKET FLASHING SEALANT.
   ASJ FLASHING SEALANT AND VINYL, PVDC, AND PVC JACKET FLASHING SEALANT.

2.06 FACTORY–APPLIED JACKETS:

A. ASJ
B. ASJ–SSL
C. FSK
D. PVDC JACKET FOR INDOOR APPLICATIONS
E. PVDC JACKET FOR OUTDOOR APPLICATIONS
F. PVDC–SSL JACKET

2.07 FIELD–APPLIED FABRIC–REINFORCING MESH:

A. WOVEN POLYESTER FABRIC

2.08 FIELD–APPLIED JACKETS:

A. PVC JACKET
B. ALUMINUM JACKET
C. UNDERGROUND DIRECT–BURIED JACKET

2.09 TAPES:

A. ASJ
B. FSK
C. PVC
D. ALUMINUM–FOIL
E. PVC

2.10 SECUREMENTS:

A. ALUMINUM BANDS
B. INSULATION PINS AND HANGERS
C. NONMETAL, ADHESIVELY ATTACHED, PERFORATED–BASE INSULATION HANGERS
   SELF–STICKING BASE INSULATION HANGERS
   INSULATION–RETAINING WASHERS
D. NONMETAL INSULATION–RETAINING WASHERS
E. STAPLES
F. WIRE
G.
H.

2.11 CORNER ANGLES:

A. PVC CORNER ANGLES
B. ALUMINUM CORNER ANGLES

PART 3 EXECUTION

3.01 PREPARATION

A. SURFACE PREPARATION: CLEAN AND DRY SURFACES TO RECEIVE INSULATION. REMOVE MATERIALS THAT WILL ADVERSELY AFFECT INSULATION APPLICATION.
B. COORDINATE INSULATION INSTALLATION WITH THE TRADE INSTALLING HEAT TRACING. COMPLY WITH REQUIREMENTS FOR HEAT TRACING THAT APPLY TO INSULATION.
C. MIX INSULATING CEMENTS WITH CLEAN POTABLE WATER; IF INSULATING CEMENTS ARE TO BE IN CONTACT WITH STAINLESS–STEEL SURFACES, USE DEMINERALIZED WATER.

3.02 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.
   INSTALL INSULATION MATERIALS, FORMS, VAPOR BARRIERS OR RETARDERS, JACKETS, AND THICKNESS' REQUIRED FOR EACH ITEM OF EQUIPMENT AND PIPE SYSTEM.
   INSTALL ACCESSORIES COMPATIBLE WITH INSULATION MATERIALS AND SUITABLE FOR THE SERVICE.

END OF SECTION

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PRIOR TO BID/START OF 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 ALL LOUVER SIZES AND LOCATIONS PRIOR TO START OF CONSTRUCTION. LAYOUT ALL EQUIPMENT IN MECHANICAL ROOM TO ENSURE PROPER SPACE AND CLEARANCES ARE AVAILABLE. CONTACT ARCHITECT IMMEDIATELY WITH ANY ISSUES.

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LICENSE NO. 5715

5/15/2024
STATE OF MISSOURI
DANNY EUGENE DOSSETT
NUMBER E-21634
REGISTERED PROFESSIONAL ENGINEER
SEAL

ACADEMY BANK BRANCH: LEE'S SUMMIT

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Suite A
LEE'S SUMMIT, MO 64081

PERMIT SET

ISSUE DATE:	05.30.24
REV DESCRIPTION	DATE

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

P-700

LEGEND

- CONDUIT AND WIRE CONCEALED IN WALL OR ABOVE CEILING
- CONDUIT AND WIRE CONCEALED UNDERFLOOR OR UNDERGROUND
- LUMINAIRE SYMBOLS. SEE LUMINAIRE SCHEDULE FOR SPECIFIC FIXTURES.
- $ SINGLE POLE, SINGLE THROW LIGHT SWITCH, 20A (WP = WEATHERPROOF COVER)
- $3 THREE-WAY LIGHT SWITCH, 20A
- $AS SINGLE POLE, SINGLE THROW LIGHT SWITCH WITH AUTO SENSOR
- $PL SINGLE POLE, SINGLE THROW LIGHT SWITCH WITH PILOT LIGHT
- $PB PUSHBUTTON DOOR BELL ACTIVATOR
- $T TIMER SWITCH
- $D DIMMER SWITCH
- $V VARIABLE SPEED FAN CONTROL SWITCH
- SINGLE RECEPTACLE, GROUNDED
- DUPLEX RECEPTACLE, GROUNDED
- IG DUPLEX RECEPTACLE, ISOLATED GROUND
- GFCI DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTION (GFCI)
- GFCI WP DUPLEX RECEPTACLE, GFCI WITH WEATHERPROOF COVER
- DUPLEX RECEPTACLE, WITH (2) USB PORTS
- FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE AS NOTED
- C TELEVISION CABLE OUTLET WITH 3/4" C.O. TO MATV J-BOX
- H HIGH DEFINITION TV OUTLET WITH (3) CAT6 CABLES
- FACP FIRE ALARM SYSTEM CONTROL PANEL
- F FIRE ALARM SYSTEM PULL STATION
- FIRE ALARM SYSTEM MINI-HORN/STROBE COMBINATION, GUESTROOM
- FIRE ALARM SYSTEM STROBE
- FIRE ALARM SYSTEM HORN/STROBE
- (S) FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR, GUESTROOM
- (S) FIRE ALARM SYSTEM SMOKE DETECTOR
- FIRE ALARM SYSTEM DUCT MOUNT SMOKE DETECTOR
- FIRE ALARM SYSTEM THERMAL DETECTOR
- (FSD) FSD 120V CONNECTION TO FIRE/SMOKE DAMPER
- DOORBELL CHIME WITH ALERT LIGHT
- JUNCTION BOX
- T THERMOSTAT
- TELEPHONE TERMINAL BOARD (TTB)
- TELEPHONE OUTLET, MOUNTED AT 18" UNLESS OTHERWISE INDICATED
- 48" HP HOUSE TELEPHONE OUTLET MOUNTED AT 48" AFF WITH MINIMUM 1/2" C.O. TO TTB
- T TELEPHONE ALERT LIGHT, SIMILAR TO FIRE ALARM STROBE, WHITE COVERPLATE, WHITE STROBE LENS, WITH "PHONE" ON BOTH SIDES OF LENS IN BLACK LETTERS
- COMPUTER OUTLET, MOUNTED AT 18" UNLESS OTHERWISE INDICATED
- (#) COMPUTER OUTLET, # INDICATES NUMBER OF CAT6 JACKS, NO NUMBER INDICATES ONE CABLE
- DUPLEX TELEPHONE/DATA OUTLETS
- PUSHBUTTON
- PANELBOARD
- ELECTRICAL DISTRIBUTION EQUIPMENT
- DISCONNECT SWITCH
- MAGNETIC MOTOR STARTER
- COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SWITCH
- C CONTACTOR
- TS TIME SWITCH
- MOTOR CONNECTION
- $M MOTOR RATED SWITCH
- CR CONNECTION TO ELECTRONIC CARD READER/DOOR RELEASE
- CLOSED CIRCUIT SECURITY CAMERA
- ELECTRO-MAGNETIC DOOR HOLDER
- SPEAKER - CEILING

NEC GENERAL NOTES:

1. WHERE THE CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED PER TABLE 310.15(B)(2). (310.15(B)(2))
2. WHERE THE CONDUCTORS OR CABLES ARE INSTALLED IN CONDUITS EXPOSED TO DIRECT SUNLIGHT ON OR ABOVE ROOFTOPS SHALL BE REDUCED PER TABLE 310.15(B)(2)(C).
3. WHERE TWO DIFFERENT AMPACITIES APPLY TO ADJACENT PORTIONS OF A CIRCUIT, THE AMPACITY SHALL BE PER THE 310.15(2) EXCEPTION.
4. WHERE THE MAXIMUM AMBIENT TEMPERATURE IS OVER 30°C, (86°F), THE REFERENCED CORRECTION FACTORS SHALL APPLY TO CONDUCTORS. (TABLE 310.16 TO 19)
5. INDICATE WHICH WIRING METHODS (E.G., FMC, EMT, AC, IMC, RMC, ETC.) ARE TO BE INSTALLED AT ANY/ALL LOCATIONS ON THE PLANS. (CHAPTER 9, TABLES 4, 5 &5A, APPENDIX C)
6. NOT USED
7. NOT USED
8. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES. (210.4(B)).
9. ALL WORK TO COMPLY WITH NATIONAL ELECTRIC CODE 2020.
10. THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBOARD OR OTHER POINT OF ORIGINATION. (210.4(D))
11. PROVIDE SEPARATE SUBMITTAL, OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND APPROVALS FOR ALL FIRE ALARM SYSTEM INSTALLATIONS AND / OR MODIFICATIONS ALL INSTALLED EQUIPMENT SHALL BE LISTED AN APPROVED BY A CITY APPROVED TESTING LABORATORY.
12. ALL INSTALLED EQUIPMENT AND MATERIAL SHALL BE NRTL LISTED AND APPROVED FOR THE INTENDED PURPOSE.
13. ALL EQUIPMENT TO BE U.L. LISTED OR EQUIVALENT.
14. FIELD VERIFY SERVICE RECEPTACLE IS PROVIDED WITHIN 25' OF MECHANICAL EQUIPMENT. (210.63)
15. MULTIPLE RACEWAYS CONTAINING MORE THAN 2 CURRENT CARRYING CONDUCTORS SHALL COMPLY WITH [2017, NEC, 310.15(B)(2)(A)].
16. WHERE THE DISCONNECTS ARE NOT PROVIDED WITHIN SIGHT FROM THE EQUIPMENT IT SUPPLIES, THE SWITCH OR CIRCUIT BREAKER MUST INCLUDE PROVISIONS FOR ADDING A LOCK, AND THESE PROVISIONS MUST REMAIN WITH THE EQUIPMENT. THESE LOCKING PROVISIONS HAVE TO BE PART OF THE EQUIPMENT, EITHER INHERENT TO THE EQUIPMENT
17. DESIGN OR AS AN ACCESSORY FEATURE THAT CAN BE INSTALLED ON THE EQUIPMENT. [410.141(B), 422.31(B), 424.19, 440.14 EXCEPTION NO. 1, 600.6(A)(2)(3), 620.51(A) EXCEPTION NO. 1, 620.53, 620.55]
18. LIGHT FIXTURE IN CONTACT WITH INSULATION TO BE U.L. LISTED FOR THERMAL BARRIER OR PROVIDE 3" MINIMUM CLEARANCE.
19. LIGHTS AND PANELS SHALL NOT BE RECESSED IN FIRE RATED ASSEMBLIES UNLESS BOXED, WITH EQUIVALENT CONSTRUCTION.
20. MOUNT THE FOLLOWING ABOVE FINISHED FLOOR:
    OUTLETS- 18" TO 48"
    SWITCHES- 36" TO 48"
    THERMOSTATS- 36" TO 48"
    MEASURED FROM BOTTOM & TOP OF BOXES RESPECTIVELY.
21. PANEL CIRCUIT DIRECTORY TO COMPLY WITH SECTION 408.4, NEC.
22. W.P. COVER OF OUTLETS TO COMPLY WITH SECT. 406.8 (B) (I), NEC.

APPLICABLE CODES

CODES:

- NATIONAL ELECTRICAL CODE 2017
- COMPLY WITH LOCAL JURISDICTION REQUIREMENTS

ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT, ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AIC	AMPS INTERRUPTING CAPACITY
AL	ALUMINUM
AMP	AMPERE
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
BLDG	BUILDING
BOH	BACK OF HOUSE
C	COIL or CONDUIT
CKT	CIRCUIT
CO	CONDUIT/RACEWAY ONLY
CT	CURRENT TRANSFORMER
Cu	COPPER
CW	COOL WHITE
DCO	DUPLEX CONVENIENCE OUTLET
DN	DOWN
EXIST	EXISTING
EF	EXHAUST FAN
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
FLR	FLOOR
FLUOR	FLUORESCENT
FOH	FRONT OF HOUSE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HT	HEAT TRACE
KCMIL	THOUSAND CIRCULAR MILLS
KEC	KITCHEN EQUIPMENT CONTRACTOR
KVA	KILOVOLT AMPERES
KW	KILOWATT
LTG	LIGHTING
MFR	MANUFACTURER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE (NFPA-70)
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NT	NEON TRANSFORMER
NTS	NOT TO SCALE
PNL	PANEL
POC	POINT OF CONNECTION
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTY	QUANTITY
RECEPT	RECEPTACLE
RI	ROUGH-IN
RM	ROOM
RO	RACEWAY ONLY
SHT	SHEET
SPEC	SPECIFICATIONS
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TE	TAMPER RESISTANT
TYP	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATTS
WW	WARM WHITE
WP	WEATHERPROOF
W/	WITH
W/O	WITHOUT
XFMR	TRANSFORMER
XFR	TRANSFER
Z	IMPEDANCE OR ZONE

GENERAL NOTES

1. PROVIDE ELECTRICAL INSTALLATION IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, LOCAL CODES, ORDINANCES AND REQUIREMENTS OF UTILITY COMPANIES FURNISHING SERVICES TO INSTALLATION.
2. PROVIDE ITEMS NECESSARY TO COMPLETE ELECTRICAL SYSTEMS. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY CONDUIT, BOX, CONDUCTOR OR SIMILAR ITEMS FOR A COMPLETE INSTALLATION.
3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND DETERMINE CONDITIONS WHICH MAY AFFECT BID. ANY ITEMS NOT FULLY UNDERSTOOD SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING. PLANS ARE BASED ON OUR BEST UNDERSTANDING OF EXISTING CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL RELEVANT EXISTING CONDITIONS.
4. "REF" INDICATIONS DENOTE WORK COVERED ELSEWHERE (ARCHITECTURAL, STRUCTURAL, OR MECHANICAL).
5. WHEREVER THE WORD "PROVIDE" IS USED, IT MEANS, "FURNISH AND INSTALL COMPLETE AND READY FOR USE."
6. COORDINATE LOCATION OF ELECTRICAL WITH OTHER TRADES.
7. REFER TO EQUIPMENT DRAWINGS FOR MECHANICAL CHARACTERISTICS (SIZE, LOCATION, ETC.) OF MECHANICAL EQUIPMENT, UNLESS OTHERWISE INDICATED.
8. PROVIDE CONDUCTORS AND RACEWAYS PER NATIONAL ELECTRICAL CODE.
9. REFER TO ARCHITECTURAL DRAWINGS FOR KEY PLANS.
10. ALL DIMENSIONS SHALL BE PER THE ARCHITECTURAL DRAWINGS.
11. PRIOR TO PROVIDING CABLES FOR TV, CONFIRM REQUIREMENTS WITH ARCHITECT.
12. NEW ELECTRICAL BOXES LOCATED IN WALLS SEPARATING TWO ROOMS SHALL NOT BE LOCATED "BACK TO BACK". INSTALL PUTTY PACKS BEHIND NEW BOXES FOR SOUND ATTENUATION.
13. ALL RECEPTACLES AND SWITCHES SHALL BE BETWEEN 18" AND 48" AFF. ADJUST HEIGHT AS REQUIRED TO MEET ADA.
14. NOT USED
15. CONTRACTOR TO INSTALL FLUSH MOUNT ALL RECEPTACLES BOXES IN FINISHED WALLS THROUGHOUT.
16. CONTRACTOR TO LABEL PROPERLY ALL SERVICES AND UNIT PANELS.
17. CONTRACTOR TO INSTALL WET RATED ALARM WIRE IN UNDER GROUND INSTALLATIONS .
18. NOT USED
19. NOT USED

SHEET INDEX

VOLTAGE DROP NOTES:

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

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

THERE SHALL BE A MAXIMUM OF 2 BRANCH CIRCUITS FOR SINGLE PHASE AND 3 BRANCH CIRCUITS FOR THREE PHASE PER HOMERUN (AS INDICATED ON THE PLANS). TEXT SHOWN BY HOMERUN INDICATES PANELBOARD DESIGNATION AND CIRCUIT NUMBER(S).

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.

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ARCHITECT: MIKE KRESS
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5/31/2024
STATE OF MISSOURI
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NUMBER E-21634
REGISTERED PROFESSIONAL ENGINEER
SEAL

ACADEMY BANK BRANCH: LEE'S SUMMIT

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Suite A
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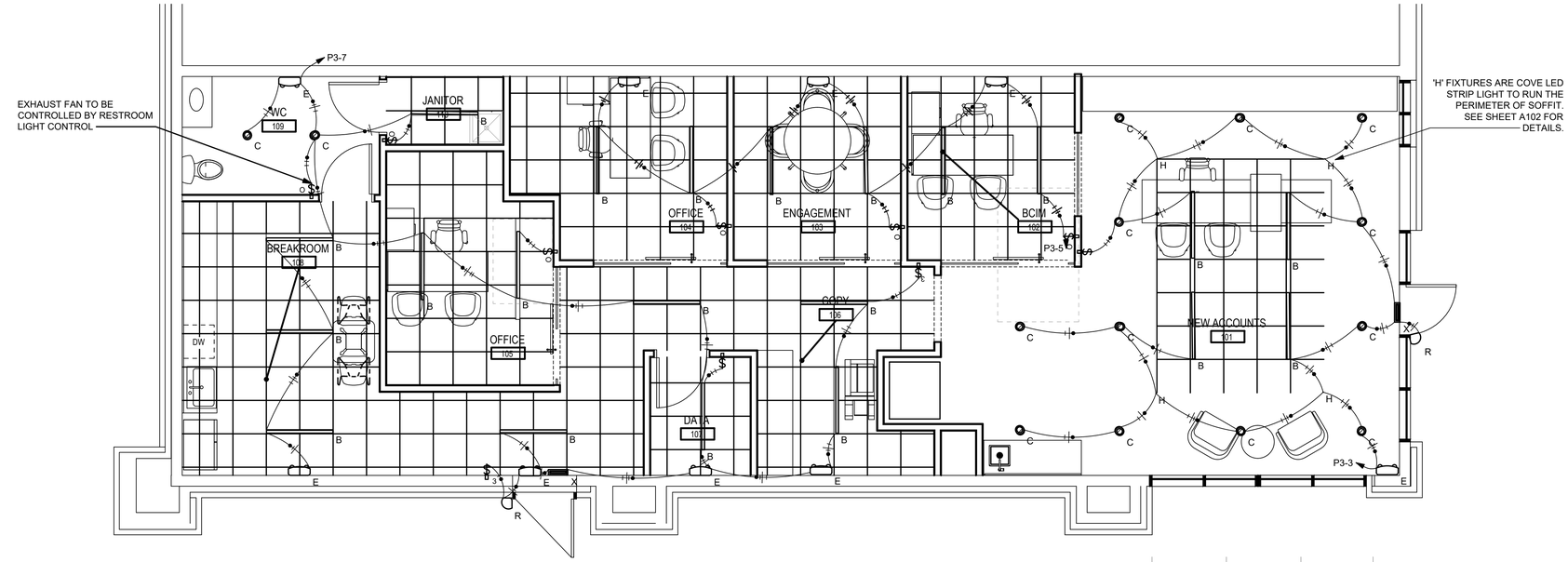
PERMIT SET

ISSUE DATE: 05.30.24

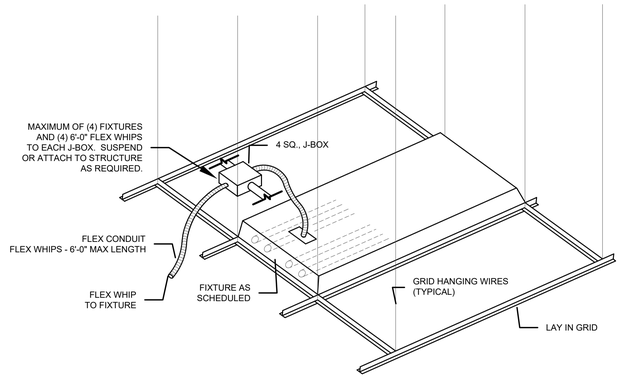
REV	DESCRIPTION	DATE

PROJECT NO. 16014
DRAWN BY:
CHKD BY:
SHEET TITLE

E-000



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



2 DETAIL OF LIGHT FIXTURE INSTALLATION
SCALE: NO SCALE

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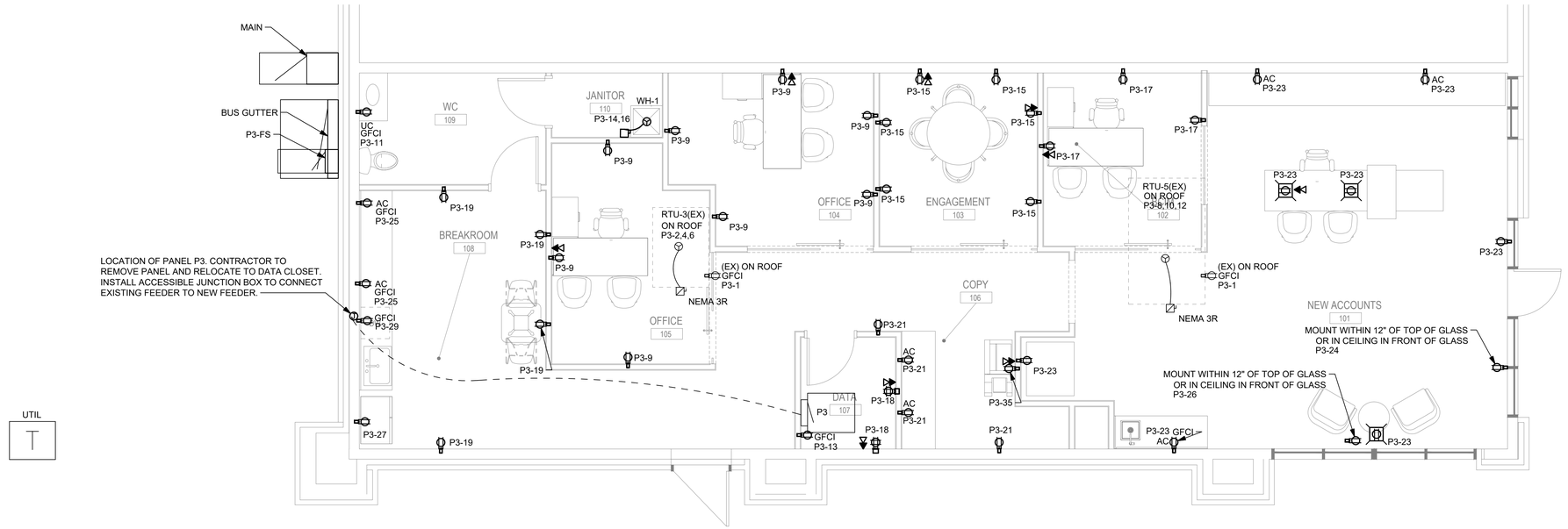
E-100



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

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ARCHITECT:	MIKE KRESS
LICENSE NO.	5715

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REGISTERED PROFESSIONAL ENGINEER
5/20/24

SEAL

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E-101

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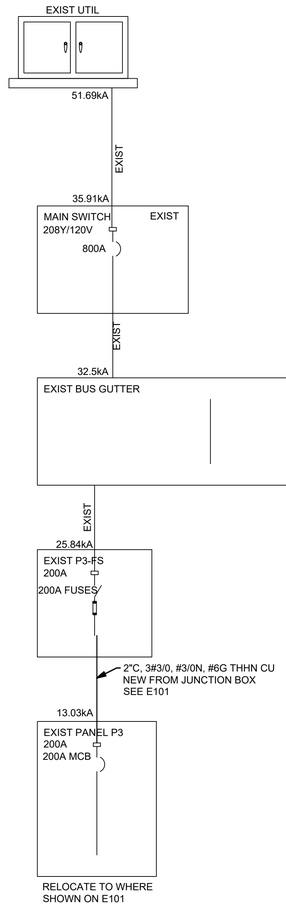
LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	MODEL	INPUT WATTS
B		Lithonia Lighting, ZL1N L48 5000LM FST MVOLT 40K 80 CRI	34.31
C		Lithonia Lighting, ZL2N L24 2000LM MDD XX 40K 80CRI XX	35.01
E		Lithonia Lighting, ELM6L	8.4
H	.	Flexfire LEDs Colorbright Natural White Strip	55
R		Lithonia Lighting, MR24 K0606	5.4
X		Lithonia Lighting, ECB LED	2.32

EQUIPMENT SCHEDULE

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



1 SINGLE LINE DIAGRAM
N.T.S.

P3

ROOM
MOUNTING **FLUSH**
FED FROM **P3-FS**
NOTE

VOLTS **208Y/120V 3P 4W**
BUS AMPS **200**
NEUTRAL **100%**

AIC **22,000**
MAIN BKR **200**
LUGS **STANDARD**

CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD VA A	LOAD VA B	LOAD VA C	FEEDER RACEWAY AND CONDUCTORS
1	20/1	MAINT RECEPTACLE	360			1/2"C,1#12,#12N,#12G
3	20/1	LIGHTING		793		1/2"C,1#10,#10N,#10G
5	20/1	LIGHTING			231	1/2"C,1#10,#10N,#10G
7	20/1	LIGHTING	497			1/2"C,1#10,#10N,#10G
9	20/1	OFFICE 104 & 105 RECEPTACLES		1,440		1/2"C,1#12,#12N,#12G
11	20/1	FAUCET SENSOR			180	1/2"C,1#12,#12N,#12G
13	20/1	MAINT RECEP	180			1/2"C,1#12,#12N,#12G
15	20/1	ENGAGEMENT RECEPTACLES		1,080		1/2"C,1#12,#12N,#12G
17	20/1	BCIM RECEPTACLES			540	1/2"C,1#12,#12N,#12G
19	20/1	BREAKROOM RECEPTACLES	720			1/2"C,1#12,#12N,#12G
21	20/1	COPY ROOM RECEPTACLES		720		1/2"C,1#12,#12N,#12G
23	20/1	NEW ACCOUNTS RECEPTACLES			1,440	1/2"C,1#12,#12N,#12G
25	20/1	BREAKROOM GFCI	360			1/2"C,1#12,#12N,#12G
27	20/1	FRIDGE - GFCI BREAKER		1,000		1/2"C,1#12,#12N,#12G
29	20/1	DISHWASHER RECEPTACLE			1,300	1/2"C,1#12,#12N,#12G
31	-/1	SPACE	0			
33	-/1	SPACE		0		
35	20/1	COPIER RECEPTACLE			1,000	1/2"C,1#12,#12N,#12G
37	-/1	SPACE	0			
39	-/1	SPACE		0		
41	-/1	SPACE			0	
2	35/3	RTU-3(EX)	3,360			3/4"C,3#8,#10G
4	|	|	|	3,360	|	|
6	|	|	|	|	3,360	|
8	50/3	RTU-5(EX)	4,200			3/4"C,3#6,#10G
10	|	|	|	4,200	|	|
12	|	|	|	|	4,200	|
14	30/2	WH-1	2,250			1/2"C,2#10,#10G
16	|	|	|	2,250	|	|
18	20/1	DATA RECEPTACLE			720	1/2"C,1#12,#12N,#12G
20	-/1	SPACE	0			
22	-/1	SPACE		0		
24	20/1	SHOW WINDOW RECEPTACLE			1,230	1/2"C,1#12,#12N,#12G
26	20/1	SHOW WINDOW RECEPTACLE	1,230			1/2"C,1#12,#12N,#12G
28	-/1	SPACE		0		
30	-/1	SPACE			0	
32	-/1	SPACE	0			
34	-/1	SPACE		0		
36	-/1	SPACE			0	
38	-/1	SPACE	0			
40	-/1	SPACE		0		
42	-/1	SPACE			0	
		TOTAL CONNECTED VA BY PHASE	13,200	14,800	14,200	

	CONN VA	CALC VA			CONN VA	CALC VA	
LIGHTING	1,520	1,900	(125%)	MOTORS	22,700	22,700	(100%)
LARGEST MOTOR	12,600	3,150	(25%)	RECEPTACLES	13,500	11,800	(50%>10)
				CONTINUOUS	4,500	5,630	(125%)
				TOTAL LOAD		45,100	
				BALANCED 3-PHASE LOAD		125 A	

VOLTAGE DROP NOTES:

HOMERUN TO PANEL INDICATED (CONCEALED). MINIMUM 3/4" CONDUIT. UNLESS OTHERWISE NOTED PROVIDE #12 CONDUCTORS AS REQUIRED BY THE NUMBER OF CIRCUITS SHOWN. INCLUDE #12 GROUND AND #12 NEUTRAL CONDUCTORS.
FOR HOMERUNS EXCEEDING 75' USE THE NEXT TABLE TO SIZE THE CONDUCTORS:
0 - 75 Feet ----------#12 AWG
75 - 150 Feet ----------#10 AWG
150 - 250 Feet ----------# 8 AWG
250 - 350 Feet ----------# 6 AWG
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1/5/2024
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SHEET TITLE

E-600

16010
BASIC ELECTRICAL REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. BASIC ELECTRICAL REQUIREMENTS SPECIFICALLY APPLICABLE TO DIVISION 16, IN ADDITION TO DIVISION 1 – GENERAL REQUIREMENTS.

1.02 SUBMITTALS

A. SUBMIT UNDER PROVISIONS OF ARCHITECTURAL SPECIFICATIONS.
B. SUBMIT THE FOLLOWING PRODUCTS:
1. WIRING DEVICES AND COVER PLATES.
2. DISCONNECT SWITCHES.
3. PANELBOARDS.
4. LIGHT FIXTURES.
C. INDICATE MANUFACTURER'S NAME AND COMPLETE CATALOG NUMBER WITH THE LABEL OR NUMBER OF THE EQUIPMENT, AS DESIGNATED ON DRAWINGS, ADJACENT THERETO.
D. SUBSTITUTIONS: WHERE A SPECIFIC MANUFACTURER OR TRADE NAME IS MENTIONED IN THE SPECIFICATION, IT IS TO ESTABLISH A STANDARD OF QUALITY. SUBSTITUTIONS FOR SPECIFIED EQUIPMENT ARE ALLOWED ONLY WHEN SUBSTITUTIONS OR APPROVED EQUALS ARE NOTED. SUBSTITUTION OF OTHER MAKES SHALL BE APPROVED BY THE ARCHITECT\ENGINEER AND/OR OWNER, 10 DAYS PRIOR TO BIDS.

1.03 REGULATORY REQUIREMENTS

A. CONFORM TO APPLICABLE BUILDING CODES.

1.04 PROJECT\SITE CONDITIONS

A. VISIT THE SITE, EXAMINE AND VERIFY THE CONDITIONS UNDER WHICH WORK MUST BE CONDUCTED BEFORE SUBMITTING A PROPOSAL. THE SUBMITTING OF A PROPOSAL IMPLIES THAT THE CONTRACTOR HAS VISITED THE SITE, IS CONVERSANT WITH ALL SITE CONDITIONS, INCLUDING EXISTING SERVICES AND EQUIPMENT, OBSTRUCTION AND ALL CONDITIONS, WHICH WILL BE ENCOUNTERED IN THE REMOVAL AND/OR RELOCATION OF PRESENT MATERIALS AND EQUIPMENT, INSTALLATION OF NEW MATERIALS, ETC., FOR A COMPLETE INSTALLATION.
B. THE DRAWINGS SHOW THE LOCATION AND GENERAL ARRANGEMENT OF ALL EQUIPMENT AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND WORK OF OTHER TRADES PERMIT. INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING WORK AND ARRANGE WORK ACCORDINGLY.

PART 2 PRODUCTS

2.01 MATERIALS AND EQUIPMENT

A. MATERIALS AND EQUIPMENT: ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.
B. ALL EQUIPMENT OF SAME OR SIMILAR SYSTEMS SHALL BE OF THE SAME MANUFACTURER.
C. ALL ELECTRICAL EQUIPMENT SHALL BE NEW UNLESS OTHERWISE STATED IN DRAWINGS.

PART 3 EXECUTION

3.01 WORKMANSHIP

A. INSTALL WORK USING PROCEDURES DEFINED IN NECA STANDARD OF INSTALLATION.

END OF SECTION

16111
CONDUIT

PART 1 GENERAL

1.01 WORK INCLUDED

A. RIGID METAL CONDUIT AND FITTINGS.
B. INTERMEDIATE METAL CONDUIT AND FITTINGS.
C. ELECTRICAL METALLIC TUBING AND FITTINGS.
D. FLEXIBLE METAL CONDUIT AND FITTINGS.
E. LIQUIDTIGHT FLEXIBLE METAL CONDUIT AND FITTINGS.

PART 2 PRODUCTS

2.01 MANUFACTURERS – CONDUIT

A. STEELDUCT, PITTSBURGH, NATIONAL, REPUBLIC, TRIANGLE, ANACONDA.

2.02 CONDUIT SUPPORTS

A. CONDUIT CLAMPS, STRAPS, AND SUPPORTS: STEEL OR MALLEABLE IRON.

PART 3 EXECUTION

3.01 CONDUIT SIZING, ARRANGEMENT, AND SUPPORT

A. IF NOT INDICATED ON DRAWINGS, SIZE CONDUIT FOR CONDUCTOR TYPE INSTALLED: 1/2 INCH MINIMUM SIZE.
B. CONCEAL ALL WORK IN WALLS AND ABOVE CEILINGS IN FINISHED ROOMS. NO CONDUIT SHALL BE INSTALLED ON OR ABOVE ROOF. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILINGS PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING.

3.02 CONDUIT INSTALLATION

A. USE CONDUIT HUBS OR SEALING LOCKNUTS FOR FASTENING CONDUIT TO CAST BOXES, AND FOR FASTENING CONDUIT TO SHEET METAL BOXES IN DAMP OR WET LOCATIONS.
B. USE SUILE CONDUIT CAPS TO PROTECT INSTALLED CONDUIT AGAINST ENTRANCE OF DIRT AND MOISTURE.
C. INSTALL EXPANSION JOINTS WHERE CONDUIT CROSSES BUILDING EXPANSION JOINTS.
D. WHERE CONDUIT PENETRATES FIRE-RATED WALLS AND FLOORS, PROVIDE MECHANICAL FIRE-STOP FITTINGS WITH UL LISTED FIRE RATING EQUAL TO WALL OR FLOOR RATING.
E. ROUTE CONDUIT THROUGH ROOF OPENINGS FOR PIPING AND DUCTWORK WHERE POSSIBLE; OTHERWISE, ROUTE THROUGH ROOF JACK WITH PITCH POCKET.

3.03 CONDUIT INSTALLATION SCHEDULE

A. INSTALLATIONS IN SLAB OR UNDER CONCRETE SLAB ON GRADE: RIGID GALVANIZED CONDUIT, INTERMEDIATE METAL CONDUIT.
B. IN SLAB ABOVE GRADE: RIGID GALVANIZED CONDUIT, ELECTRICAL METALLIC TUBING, INTERMEDIATE METAL CONDUIT.
C. CONCEALED DRY INTERIOR LOCATIONS: RIGID GALVANIZED CONDUIT, INTERMEDIATE METAL CONDUIT, OR ELECTRICAL METALLIC TUBING.
D. EXPOSED DRY INTERIOR LOCATIONS: RIGID GALVANIZED CONDUIT, INTERMEDIATE METAL CONDUIT, OR ELECTRICAL METALLIC TUBING.

END OF SECTION

16123
BUILDING WIRE AND CABLE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. BUILDING WIRE AND CABLE.
B. WIRING CONNECTORS AND CONNECTIONS.

1.02 PROJECT CONDITIONS

A. VERIFY THAT FIELD MEASUREMENTS ARE AS SHOWN ON DRAWINGS.
B. CONDUCTOR SIZES ARE BASED ON COPPER.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. GENERAL ELECTRIC, ROME, HATFIELD, CRESENT, GENERAL CABLE, TRIANGLE, ANACONDA.

2.02 WIRE AND CABLE

A. DESCRIPTION: SINGLE CONDUCTOR INSULATED WIRE.
B. CONDUCTOR: COPPER.
C. INSULATION VOLTAGE RATING: 600 VOLTS.
D. INSULATION: ANSI/WFPA 70: TYPE THW, THHN/THWN OR XHHW INSULATION FOR FEEDERS AND BRANCH CIRCUITS LARGER THAN 8 AWG. TYPE THHN/THWN INSULATION FOR FEEDERS AND BRANCH CIRCUITS 8 AWG AND SMALLER. THW OR XHHW MAY BE USED IF CONDUIT SIZE IS INCREASED FOR FEEDERS AND BRANCH CIRCUITS 8 AWG AND SMALLER.

PART 3 EXECUTION

3.01 WIRING METHODS

A. USE ONLY BUILDING WIRE IN RACEWAYS IN ALL LOCATIONS.
B. USE WIRING METHODS INDICATED ON DRAWINGS.
C. ALL CONDUCTORS IN PLENUM AREA SHALL BE PLENUM RATED.

3.02 INSTALLATION

A. USE SOLID CONDUCTOR FOR FEEDERS AND BRANCH CIRCUITS 10 AWG AND SMALLER, STRANDED CONDUCTOR 8 AWG AND LARGER.
B. USE STRANDED CONDUCTORS FOR CONTROL CIRCUITS.
C. USE CONDUCTOR NOT SMALLER THAN 12 AWG FOR POWER AND LIGHTING CIRCUITS.
D. USE CONDUCTOR NOT SMALLER THAN 14 AWG FOR CONTROL CIRCUITS.
E. USE SOLDERLESS PRESSURE CONNECTORS WITH INSULATING COVERS FOR COPPER CONDUCTOR SPLICES AND TAPE, 6 AWG AND LARGER.
F. USE INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS FOR COPPER CONDUCTOR SPLICES AND TAPE, 8 AWG AND SMALLER.

END OF SECTION

16130
BOXES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. WALL AND CEILING OUTLET BOXES.
B. PULL AND JUNCTION BOXES.

1.02 PROJECT CONDITIONS

A. VERIFY FIELD MEASUREMENTS ARE AS SHOWN ON DRAWINGS.
B. ELECTRICAL BOXES ARE SHOWN ON DRAWINGS IN APPROXIMATE LOCATIONS UNLESS DIMENSIONED. INSTALL AT LOCATION REQUIRED FOR BOX TO SERVE INTENDED PURPOSE.

PART 2 PRODUCTS

2.01 OUTLET BOXES

A. SHEET METAL OUTLET BOXES: ANSI/NEMA OS 1. GALVANIZED STEEL.
1. LUMINAIRE AND EQUIPMENT SUPPORTING BOXES: RATED FOR WEIGHT OF EQUIPMENT SUPPORTED, INCLUDE 1\2 INCH MALE FIXTURE STUDS WHERE REQUIRED.
B. NONMETALLIC OUTLET BOXES: ANSI/NEMA OS 2.
C. CAST BOXES: NEMA FB 1, TYPE FD CAST FERALLOY. PROVIDE GASKETED COVER BY BOX MANUFACTURER. PROVIDE THREADED HUBS.

2.02 PULL AND JUNCTION BOXES

A. SHEET METAL BOXES: NEMA OS 1, GALVANIZED STEEL.

PART 3 EXECUTION

3.01 INSTALLATION

A. INSTALL ELECTRICAL BOXES AS SHOWN ON DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS AND COMPLIANCE WITH REGULATORY REQUIREMENTS.
B. INSTALL PULL BOXES AND JUNCTION BOXES ABOVE ACCESSIBLE CEILINGS AND IN UNFINISHED AREAS ONLY, UNLESS NOTED OTHERWISE.
C. INSTALL BOXES TO PRESERVE FIRE RESISTANCE RATING OF PARTITIONS AND OTHER ELEMENTS.
D. ALIGN ADJACENT WALL-MOUNTED OUTLET BOXES FOR SWITCHES, THERMOSTATS, AND SIMILAR DEVICES WITH EACH OTHER.
E. USE CAST FLOOR BOXES FOR INSTALLATIONS IN SLAB ON GRADE; FORMED STEEL BOXES ARE ACCEPTABLE FOR OTHER INSTALLATIONS.

3.03 INTERFACE WITH OTHER PRODUCTS

A. LOCATE FLUSH MOUNTING BOX IN MASONRY WALL TO REQUIRE CUTTING OF MASONRY UNIT CORNER ONLY. COORDINATE MASONRY CUTTING TO ACHIEVE NEAT OPENING.
B. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS MOUNTED ABOVE COUNTERS, BENCHES AND BACKSPLASHES.

END OF SECTION

16141
WIRING DEVICES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. WALL SWITCHES.
B. RECEPTACLES.
C. DEVICES PLATES AND COVERS.

PART 2 PRODUCTS

2.01 WALL SWITCHES

A. MANUFACTURERS: ARROW HART, GENERAL ELECTRIC, HUBBELL, LEVITON, PASS & SEYMOUR, SLATER.
B. DEVICE BODY: PLASTIC BODY WITH IVORY NYLON TOGGLE HANDLE.
C. VOLTAGE RATING: 120-277 VOLTS, AC.
D. CURRENT RATING: 20 AMPERES.
E. DESCRIPTION: NEMA WD 1, SPECIFICATION GRADE, AC TOGGLE SWITCH AS FOLLOWS:
1. SINGLE POLE: ARROW HART 1221.
2. DOUBLE POLE: ARROW HART 1222.
3. THREE WAY: ARROW HART 1223.

(CON'T.)

16141
WIRING DEVICES
(CON'T.)

2.02 RECEPTACLES

A. MANUFACTURERS:
ARROW HART, GENERAL ELECTRIC, HUBBELL, LEVITON, PASS & SEYMOUR, SLATER.
B. DEVICE BODY: PLASTIC BODY WITH IVORY NYLON FACE.
C. CONVENIENCE AND STRAIGHT-BLADE RECEPTACLES: NEMA WD 1, SPECIFICATION GRADE, GROUNDING TYPE; LOCKING-BLADE RECEPTACLES: NEMA WD 5, SPECIFICATION GRADE, GROUNDING TYPE; AS FOLLOWS:
1. DUPLEX RECEPTACLE 20 A, 125 V: HUBBELL 5362, ARROW HART 5362, P & S 5362, SLATER 5362-AG, LEVITON 5362, OR G.E. 5362-1.
2. COMPUTER DUPLEX RECEPTACLE 20A, 125V ISOLATED GROUND: HUBBELL IG 5362, ARROW HART I-5362, P & S IG6300, SLATER IG5362-AG-OR, LEVITON 5362-IG, OR G.E. 5362-IG2.

2.03 WALL PLATES

A. HIGH IMPACT NYLON, IVORY COLOR, SAME AS DEVICE MANUFACTURER, TO MATCH DEVICE.

PART 3 EXECUTION

3.01 EXAMINATION

A. VERIFY OUTLET BOXES ARE INSTALLED AT PROPER HEIGHT.
B. VERIFY WALL OPENINGS ARE NEATLY CUT AND WILL BE COMPLETELY COVERED BY WALL PLATES.

3.02 PREPARATION

A. PROVIDE EXTENSION RINGS TO BRING OUTLET BOXES FLUSH WITH FINISHED SURFACE, IF REQUIRED.

3.03 INSTALLATION

A. CONNECT WIRING DEVICE GROUNDING TERMINAL TO BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR.
B. CONNECT WIRING DEVICES BY WRAPPING CONDUCTOR AROUND SCREW TERMINAL.
C. USE JUMBO SIZE PLATES FOR OUTLETS INSTALLED IN MASONRY WALLS.
D. INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS ABOVE ACCESSIBLE CEILINGS AND ON SURFACE MOUNTED OUTLETS IN STOCKROOM AREAS.

END OF SECTION

16190
SUPPORTING DEVICES

PART 1 GENERAL

1.01 WORK INCLUDED

A. CONDUIT AND EQUIPMENT SUPPORTS.
B. FASTENING HARDWARE.

1.02 QUALITY ASSURANCE

A. SUPPORT SYSTEMS SHALL BE ADEQUATE FOR WEIGHT OF EQUIPMENT AND CONDUIT, INCLUDING WIRING, WHICH THEY CARRY.

PART 2 PRODUCTS

2.01 MATERIAL

A. SUPPORT CHANNEL: GALVANIZED OR PAINTED STEEL.
B. HARDWARE: CORROSION RESISTANT.

PART 3 EXECUTION

3.01 INSTALLATION

A. FASTEN HANGER RODS, CONDUIT CLAMPS, AND OUTLET AND JUNCTION BOXES TO BUILDING STRUCTURE.
B. USE TOGGLE BOLTS OR HOLLOW WALL FASTENERS IN HOLLOW MASONRY, PLASTER, OR GYPSUM BOARD PARTITIONS AND WALLS; EXPANSION ANCHORS OR PRESET INSERTS IN SOLID MASONRY WALLS; SELF-DRILLING ANCHORS OR EXPANSION ANCHOR ON CONCRETE SURFACES; SHEET METAL SCREWS IN SHEET METAL STUDS; AND WOOD SCREWS IN WOOD CONSTRUCTION.
C. DO NOT FASTEN SUPPORTS TO METAL DECK, PIPING, DUCTWORK, MECHANICAL EQUIPMENT, OR CONDUIT.
D. DO NOT USE POWDER-ACTUATED ANCHORS.
E. DO NOT WELD TO OR DRILL BUILDING STRUCTURAL STEEL MEMBERS.
F. FABRICATE SUPPORTS FROM STRUCTURAL STEEL OR STEEL CHANNEL, RIGIDLY WELDED OR BOLTED TO PRESENT A NEAT APPEARANCE. USE HEXAGON HEAD BOLTS WITH SPRING LOCK WASHERS UNDER ALL NUTS.
G. INSTALL SURFACE-MOUNTED CABINETS AND PANELBOARDS WITH MINIMUM OF FOUR ANCHORS.
H. BRIDGE STUDS TOP AND BOTTOM WITH CHANNELS TO SUPPORT FLUSH-MOUNTED CABINETS AND PANELBOARDS IN STUD WALLS.

END OF SECTION

16195
ELECTRICAL IDENTIFICATION

PART 1 GENERAL

1.01 WORK INCLUDED

A. NAMEPLATES AND TAPE LABELS.
B. WIRE AND CABLE MARKERS.

PART 2 PRODUCTS

2.01 MATERIALS

A. NAMEPLATES: ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON A BLACK BACKGROUND.
B. TAPE LABELS: EMBOSSED ADHESIVE TAPE, WITH 3/16 INCH WHITE LETTERS ON A BLACK BACKGROUND.
C. WIRE AND CABLE MARKERS: CLOTH MARKERS, SPLIT SLEEVE OR TUBING TYPE.

PART 3 EXECUTION

3.01 INSTALLATION

A. USE EMBOSSED TAPE ONLY FOR IDENTIFICATION OF INDIVIDUAL WALL SWITCHES, RECEPTACLES AND CONTROL DEVICE STATIONS WHERE NOTED ON DRAWINGS.

3.02 NAMEPLATE ENGRAVING SCHEDULE

A. PROVIDE NAMEPLATES OF MINIMUM LETTER HEIGHT AS SCHEDULED BELOW.
B. PANELBOARDS: 3/4 INCH, IDENTIFY EQUIPMENT DESIGNATION. 3/4 INCH, IDENTIFY VOLTAGE RATING AND SOURCE.
C. INDIVIDUAL CIRCUIT BREAKERS, SWITCHES, AND MOTOR STARTERS IN PANELBOARDS, SWITCHBOARDS, AND MOTOR CONTROL CENTERS: 1/8 INCH, IDENTIFY CIRCUIT AND LOAD SERVED, INCLUDING LOCATION.
D. INDIVIDUAL CIRCUIT BREAKERS, ENCLOSED SWITCHES AND MOTOR STARTERS: 1/4 INCH, IDENTIFY LOAD SERVED.

END OF SECTION

16470
PANELBOARDS

PART 1 GENERAL

1.01 WORK INCLUDED

A. LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARDS.

1.02 SPARE PARTS

A. KEYS: FURNISH TWO EACH TO OWNER.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS – PANELBOARDS

A. SQUARE D, GENERAL ELECTRIC, ITE/SIEMENS-ALLIS, WESTINGHOUSE, CUTLER HAMMER.

2.02 PANELBOARDS

A. LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARDS: CIRCUIT BREAKER TYPE AS INDICATED ON THE PANELBOARD SCHEDULES ON DRAWINGS. PROVIDE CABINET FRONT WITH CONCEALED TRIM CLAMPS, CONCEALED HINGE AND FLUSH LOCK ALL KEYED ALIKE. FINISH IN MANUFACTURER'S STANDARD GRAY ENAMEL.
B. ENCLOSURE: TYPE 1.
C. MINIMUM SHORT CIRCUIT RATING: AS SHOWN ON DRAWINGS.
D. PROVIDE PANELBOARDS WITH COPPER BUS RATINGS AS SCHEDULED ON DRAWINGS. PROVIDE GROUND BUS IN ALL PANELBOARDS.
E. MOLDED CASE CIRCUIT BREAKERS: BOLT-ON TYPE THERMAL MAGNETIC TRIP CIRCUIT BREAKERS, WITH COMMON TRIP HANDLE FOR ALL POLES. PROVIDE CIRCUIT BREAKERS UL LISTED AS TYPE SWD FOR LIGHTING CIRCUITS. PROVIDE UL CLASS A GROUND FAULT INTERRUPTER CIRCUIT BREAKERS WHERE SCHEDULED ON DRAWINGS.

PART 3 EXECUTION

3.01 INSTALLATION

A. HEIGHT: 6 FEET TO TOP SWITCH OR CIRCUIT BREAKER IN PANELBOARDS, UNLESS OTHERWISE NOTED.
B. PROVIDE TYPED CIRCUIT DIRECTORY FOR EACH BRANCH CIRCUIT PANELBOARD. REVISE DIRECTORY TO REFLECT CIRCUITING CHANGES REQUIRED TO BALANCE PHASE LOADS.

END OF SECTION

16510
INTERIOR LUMINARIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. INTERIOR LUMINARIES AND ACCESSORIES.
B. EMERGENCY LIGHTING UNITS.
C. EXIT SIGNS.
D. BALLASTS.
E. LAMPS.
F. LUMINAIRE ACCESSORIES.

PART 2 PRODUCTS

2.01 LUMINARIES

A. THE LIGHTING FIXTURES ARE SHOWN ON THE DRAWINGS WITH A LETTER OR LETTER/NUMBER KEY. THE LETTER OR LETTER/NUMBER OF THE KEY INDICATES THE TYPE OF THE FIXTURE.
B. FIXTURE MANUFACTURERS: AS SCHEDULED IN LIGHT FIXTURE SCHEDULE ON DRAWINGS.

2.02 BALLAST

A. MANUFACTURERS:
1. SYLVANIA, GENERAL ELECTRIC, NORTH AMERICAN PHILLIPS/WESTINGHOUSE.
2. FLUORESCENT LAMPS SHALL BE OF TYPE SPECIFIED ON LIGHT FIXTURE SCHEDULE AND PLANS.

3.03 LAMPS

A. MANUFACTURERS:
1. SYLVANIA, GENERAL ELECTRIC, NORTH AMERICAN PHILLIPS/WESTINGHOUSE.
2. FLUORESCENT LAMPS SHALL BE OF TYPE SPECIFIED ON LIGHT FIXTURE SCHEDULE AND PLANS.

PART 3 EXECUTION

3.01 EXAMINATION

A. EXAMINE EACH LUMINAIRE TO DETERMINE SUITABILITY FOR LAMPS SPECIFIED.

3.02 INSTALLATION

A. EXPOSED GRID CEILINGS: FURNISH AND INSTALL AUXILIARY MEMBERS SPANNING CEILING TEES TO SUPPORT SURFACE-MOUNTED LUMINARIES.
B. INSTALL RECESSED LUMINARIES TO PERMIT REMOVAL FROM BELOW.
C. INSTALL RECESSED LUMINARIES USING ACCESSORIES AND FIRESTOPPING MATERIALS TO MEET REGULATORY REQUIREMENTS FOR FIRE RATING.
D. MAKE WIRING CONNECTIONS TO BRANCH CIRCUIT USING BUILDING WIRE WITH INSULATION SUITABLE FOR TEMPERATURE CONDITIONS WITHIN LUMINAIRE.

3.03 ADJUSTING

A. AIM AND ADJUST LUMINARIES AS INDICATED ON DRAWINGS OR DIRECTED.

END OF SECTION

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PRIOR TO BID/START OF CONSTRUCTION REQUIREMENTS
THESE CONSTRUCTION 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 ALL LOUVER SIZES AND LOCATIONS PRIOR TO START OF CONSTRUCTION. LAYOUT ALL EQUIPMENT IN MECHANICAL ROOM TO ENSURE PROPER SPACE AND CLEARANCES ARE AVAILABLE. CONTACT ARCHITECT IMMEDIATELY WITH ANY ISSUES.

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1/5/2024
REGISTERED PROFESSIONAL ENGINEER
STATE OF MISSOURI
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ISSUE DATE: 05.30.24

REV	DESCRIPTION	DATE

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

E-700