ABBREVIATIONS

@	AT	M.O.	MASONRY OPENING
A.B.	ANCHOR BOLT	M.R.	MOISTURE RESISTANT
ACOUST. or AC	ACOUSTICAL	MTL.	METAL
A.C.T.	ACOUSTICAL CEILING TILE ACOUSTICAL MYLAR	NEC'Y	NECESSARY
ACM		N.I.C.	NOT IN CONTRACT
ADJ.	ADJUSTABLE	N.T.S. 0	NOT TO SCALE OIL
A.F.F. A.F.G.	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	0.C. or 0/C	ON CENTER
AGG.	AGGREGATE	O.D.	OUTSIDE DIAMETER
ALUM. or AL	ALUMINUM	O/O	OUT TO OUT
ANCH.	ANCHOR	OPG.	OPENING
APPROX.	APPROXIMATELY	O.H.	OVERHEAD
ASB.	ASBESTOS	OPP.	OPPOSITE
ATTEN.	ATTENUATION	P, PT. or PNT.	PAINT(ED)
BD.	BOARD	PÁRTN.	PARTITION
B.J.B.	BAR JOIST BEARING	P.BD.	PARTICLE BOARD
BLDG.	BUILDING	P.C.T. PL.	PORCELAIN TILE PLATE
BLK. BM.	BLOCK BEAM	PLAM	PLASTIC LAMINATE
BRG. PL.	BEARING PLATE	PLAS.	PLASTIC
BRK.	BRICK	PLWD. or PWD.	PLYWOOD
BRZ.	BRONZE	PNL.	PANELING
BOT.	BOTTOM	POLY.	POLYETHENE
CAB.	CABINET	PORC.	PORCELAIN
C.B.	CATCH BASIN	P.T.	PRESSURE TREATED
CEM.	CEMENT	PVMT.	PAVEMENT
CER.	CERAMIC	Q.T.	QUARRY TILE
C.G.	CORNER GUARD CONTROL JOINT	R	RISERS
C.J.		RAD. or R	RADIUS
CK.	CAULK	R.B.	RUBBER BASE
CL. or ©	CENTERLINE	R.C.P.	REINFORCED CONCRETE PIPE
CLG.	CEILING	R.D.	ROOF DRAIN
C.M.U.	CONCRETE MASONRY UNIT	RE.	REFERENCE
C.O.	CLEAN OUT	REC.	RECESSED
COL.	COLUMN	REF.	REFRIGERATOR
CONC.	CONCRETE	REINF.	REINFORCED
CONC. BLK.	CONCRETE BLOCK CONSTRUCTION	REQ'D	REQUIRED
CONST.		RES.	RESISTANT
CONT.	CONTINUOUS	RESIL.	RESILIENT
CORR.	CORRIDOR	RET.	RETAINING
CPT.	CARPET	RM.	ROOM
	COLD ROLLED	R.O.	ROUGH OPENING
	CERAMIC TILE	SB.	SPLASH BACK
	DOUBLE	SC.	SOLID CORE
	DETAIL	SCHED.	SCHEDULE
D.F.	DRINKING FOUNTAIN DIAMETER	SCW. SECT.	SOLID CORE WOOD SECTION
	DIAGONAL	SHT.	SHEET
DISP.	DIMENSION	SIM.	SIMILAR
	DISPENSER	SLR.	SEALER
DTL.	DETAIL	SPEC.	SPECIFICATIONS
DN.	DOWN	SQ.	SQUARE
D.O.	DO OVER	S.S.	STAINLESS STEEL
D.S.	DOWN SPOUT	ST.	STAIN
DWG.	DRAWING	STD.	STANDARD
	EPOXY	STL.	STEEL
E.DF.	ELECTRIC DRINKING FOUNTAIN EXTERIOR INSULATION & FINISH SYSTEM	STN.	STONE
E.I.F.S.		STRUCT.	STRUCTURE
E.J.	EXPANSION JOINT	STUC.	STUCCO
EA.	ELECTRIC WATER COOLER	S.V.	SHEET VINYL
	EACH	SYM.	SYMMETRICAL
	ELECTRIC(AL)	SYN. T.	SYNTHETIC TREAD
ENAM.	ENAMEL	T. & B.	TOP AND BOTTOM TONGUE AND GROOVE
E.O.S.	EDGE OF SLAB	T. & G.	
E.O.S. E.PT. EQ.	EPOXY PAINT EQUAL	TB TC	TACKBOARD TEACHER CABINET
FQUIP.	EQUIPMENT EACH WAY	TEL.	TELEPHONE TOP OF FOOTING
EXIST. EXP.	EXISTING	THK THR	THICK(NESS) THRESHOLD
EXP. JT. or E.J.	EXPANSION JOINT	THRU.	THROUGH
	EXTERIOR GRADE	T.O.C. T.TILE	TOP OF CONCRETE TERRAZZO TILE
	FURNISHED BY OTHERS	TXP.	TEXTURED PAINT
	FAN COIL UNIT	TYP.	TYPICAL
F.D.	FLOOR DRAIN	TZ.	TERRAZZO
F.E.C.	FIRE EXTINGUISHER CABINET	U.L.	UNDERWRITERS LABORATORIES
F.H.	FLAT HEAD	UNF.	UNFINISHED UNLESS OTHERWISE NOTED
FND.	FOUNDATION	U.O.N.	
FIN.	FINISH	UR.	URINAL
FLR.	FLR.	V.C.G.B.	VINYL COVERED GYP. BOARD
FLUOR.	FLUORESCENT	V.C.P.	VITRIFIED CLAY PIPE VINYL COMPOSITION TILE
F.O.S.	FACE OF STUD	V.C.T.	
FRM. FT.	FRAME FOOT	VERT. VERT. VIN.	VERTICAL
FTG.	FOOTING	VWC.	VINYL
G.I.	GALVANIZED IRON		VINYL WALL COVERING
GA.	GAUGE	W W/	WAX WITH
GALV.	GALVANIZED	WATER-RES.	WATER-RESISTANT
G.B.	GYPSUM BOARD	WC	WATER CLOSET
GEN.	GENERAL	WD.	WOOD
GL.	GLASS	W.F.	WIDE FLANG
GLS. BLK.	GLASS BLOCK	WIN.	WINDOW
GRT.	GROUT	W.P.	WATERPROOF
GYP.	GYPSUM	W.R.G.B.	WATER-RESISTANT GYPBOARD WAINSCOT
GYP. BD.	GYPSUM BOARD	WSCT.	
HBD.	HARDBOARD	W.W.F.	WELDED WIRE FABRIC/MESH
H.C.	HANDICAPPED	W.W.M.	WELDED WIRE MESH
H.C.W. HDW.	HOLLOW CORE WOOD HARDWARE	VV. VV. IVI.	WEEDED WINE WEST
H.M.	HOLLOW METAL		
H.R.	HANDRAIL HOUR	_	DETAIL NUMBER
HD. HDWD. or HWD.	HEAD HARDWOOD	1	DIDO CENTION
HORIZ. HT.	HORIZONTAL HEIGHT	(A000)	= BLDG SECTION
INCL. I.D.	INCLUDING INSIDE DIAMETER		PAGE NUMBER
IN. INSUL.	INCH INSULATION		—— DETAIL NUMBER
INT. INV.	INTERIOR INVERT		ULIAIL NUNDEK
J.B.	JUNCTION BOX	$\sqrt{\frac{X}{XXXX}}$	= DETAIL CUTS
J.T. KIT.	JOINT KITCHEN		D. 05
LAB. LAM.	LABORATORY LAMINATE		——PAGE NUMBER
LAV. LT. WT.	LAVATORY LIGHT WEIGHT	1	DETAIL NUMBER
MACH. MANUF.	MACHINE MANUFACTURER	4 ()	= INTERIOR ELEV. LABEL
MATL.	MATERIAL	3	PAGE NUMBER
MAX. M.B.	MAXIMUM MARKER BOARD	•	
MECH.	MECHANICAL		

MECHANICAL METAL EDGE STRIP

MISCELLANEOUS

MAN HOLE

MOLDING

MET.

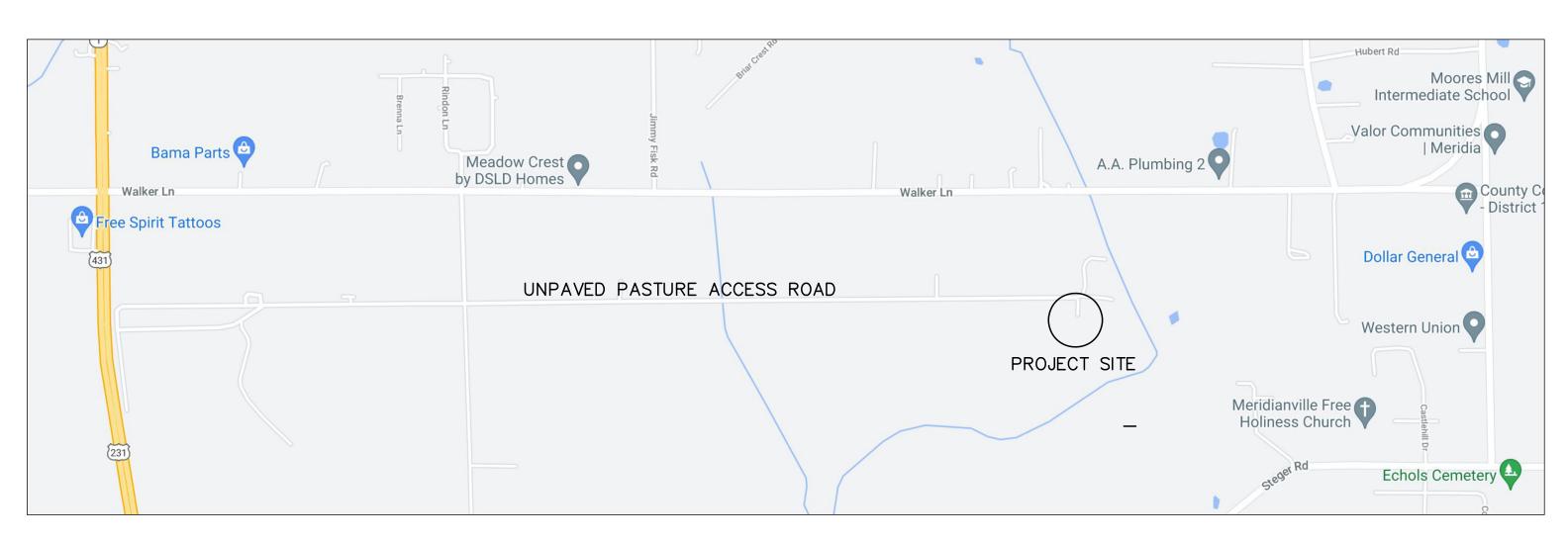
M.H.

MIN.

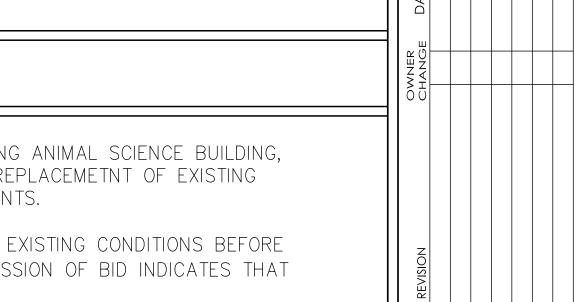
MISC.

ALABAMA A&M UNIVERSITY ANIMAL SCIENCE BUILDING RENOVATION

372 WALKER LN, HAZEL GREEN, AL







PROJECT: 21021

ARCHITECTURE, LL

112-G Southsde Square Huntsville, AL 35801 Tel. 256-694-1170

DRAWN: ACB/AP

DATE: 2/24/2023 SHEET TITLE

TITLE SHEET

SHEET NO.

T1.0

PROJECT NOTES SCOPE OF WORK: INTERIOR REPAIRS AND UPDATES OF EXISTING ANIMAL SCIENCE BUILDING, OWNER

GENERAL T1.0 Title Sheet

NOTE 1: NOT ALL SYMBOLS MAY BE USED

NOTE 2: ALSO SEE ENGINEERING DRAWINGS

FOR OTHER SYMBOLS THAT MAY BE USED

IN THESE DRAWINGS.

IN THESE DRAWINGS.

ARCHITECTURAL

LS1.1 Life Safety Evaluation, Egress Clearances

A0.1 Demolition Plan

A1.1 Floor Plan

A2.1 Schedules - Door, Room Finish, ADA Signage

DRAWING INDEX

A2.2 Restroom Plan, Fixture Requirements

MECHANICAL

M-1 Mechanical Demolition Plan

M-2 Mechanical Floor Plan M-3 Mechanical Schedules

M-4 Mechanical Details

<u>PLUMBING</u>

P-1 Plumbing Demolition Plan

P-2 Plumbing Floor Plan

P-3 Plumbing Diagrams

ELECTRICAL

E-1 Symbols, Diagrams & Details

E-2 Lighting Plan

E-3 Power Plan

ALABAMA A&M UNIVERSITY 4900 MERIDIAN ST. NORTH HUNTSVILLE, AL 35811

ARCHITECTURAL

256-694-1170

PASEUR & ASSOCIATES ARCHITECTURE 112-G SOUTHSIDE SQ. HUNTSVILLE, AL 35801

PROJECT TEAM

MECHANICAL/ELECTRICAL/PLUMBING TOTAL DESIGN ENGINEERING

3408 6TH AVE. HUNTSVILLE, AL 35805 256-539-8585

INCLUDING MECHANICAL, ELECTRICAL, DOORS, AND FINISHES. REPLACEMETHT OF EXISTING PLUMBING FIXTURES AND RELATED PIPING PER ADA REQUIREMENTS.

CONTRACTOR(S) TO VISIT JOBSITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BEFORE SUBMITTING BID AND/OR PROCEEDING WITH ANY WORK. SUBMISSION OF BID INDICATES THAT THE CONTRACTOR HAS VERIFIED EXISTING CONDITIONS.

ALL WORK SHALL CONFORM TO CODES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION.

IN NO CASE SHALL DIMENSIONS BE SCALED FROM DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS IN THE THE FIELD BEFORE PROCEEDING WITH SUBSEQUENT WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.

PRE-INSTALLATION INSPECTION AND APPROVAL: IT IS ESSENTIAL THAT A PRODUCT'S OR ASSEMBLY'S INSTALLER APPROVE SUBSTRATES AND OTHER SUPPORT CONDITIONS PRIOR TO PROCEEDING WITH THE INSTALLATION OF THE PRODUCT OR ASSEMBLY. IT SHALL BE UNDERSTOOD BY ALL PARTIES THAT INSTALLATION OF THE PRODUCT OR ASSEMBLY INDICATES APPROVAL OF THE SUBSTRATE AND SUPPORT CONDITIONS BY THE INSTALLER OF THE PRODUCT OR ASSEMBLY.

	T
LE	EGEND
	8" CMU WALL
EXIT	EXIT SIGN
FE O	FIRE EXTINGUISHER & CABINET; SEE NOTES
SD	SMOKE DETECTOR
HC SIGN	HANDICAP SIGNAGE — SEE SCHEDULES
EYEWASH	EYEWASH SIGNAGE — SEE SCHEDULES
SHOWER	SHOWER DIRECTIONAL SIGNAGE— SEE SCHEDULES
HC OR	DESIGNATED HANDICAP ACCESSIBLE
##>	MAXIMUM OCCUPANCY COUNT
# FT 🔾	MAXIMUM TRAVEL DIST. TO EXIT
EWC	ELECTRIC WATER COOLER (BOTTLE FILLER—SEE PLUMBING)
SS	SERVICE SINK
W.I.C.	WATER INLET COVER
	HVAC CONTROL ON WALL

LS1.1 SCALE: 1/4" = 1'-0"

BUILDING CODE NOTES APPLICABLE CODES (STATE OF ALABAMA): 2015 INTERNATIONAL EXISTING BUILDING CODE 2015 INTERNATIONAL PLUMBING CODE 2015 INTERNATIONAL MECHANICAL CODE 2015 INTERNATIONAL FUEL GAS CODE 2015 INTERNATIONAL FIRE CODE 2014 NATIONAL ELECTRICAL CODE (NFPA 70) 2013 NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72) ANSI/ASHRAE/IESNA STANDARD 90.1-2013 ENERGY STANDARD 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN EXISITNG BUILDING CODE CLASSIFICATION - ALTERATION LEVEL 1 BUILDING OCCUPANCY TYPE: EXISTING E - EDUCATIONAL BUILDING AREA: 5363 SQFT OUT FACE OF STUD 5511 SQFT INCLUDING BRICK MAXIMUM ALLOWED BUILDING AREA: 14,500 SQFT MAX. NO. OF OCCUPANTS: 50 BUILDING CONSTRUCTION TYPE: III-B NON-SPRINKLERED FIRE ALARM: REQUIRED; SEE SPECS. CONSTRUCTION MATERIALS: EXISTING ENGINEERED STEEL FRAME, EXISTING CMU INFILL WALLS, EXISTING METAL ROOF

MAXIMUM ALLOWED TRAVEL DISTANCE TO EXIT: 200 FT

MAXIMUM ACTUAL TRAVEL DISTANCE TO EXIT: 85 FT

SERVICE SINKS: 1 REQUIRED, 1 PROVIDED

MALE WATER CLOSETS: 1 REQUIRED, 2 PROVIDED

FEMALE WATER CLOSETS: 1 REQUIRED, 2 PROVIDED LAVATORIES: 1 EA. REQUIRED, 1 EA. PROVIDED ELECTRIC WATER COOLER: 2 REQUIRED, 2 PROVIDED

NUMBER OF EXITS: 2 REQUIRED, 3 PROVIDED

PLUMBING FIXTURE COUNT:

ENERGY CODE NOTES:

ROOF INSULATION: EXISTING TO REMAIN

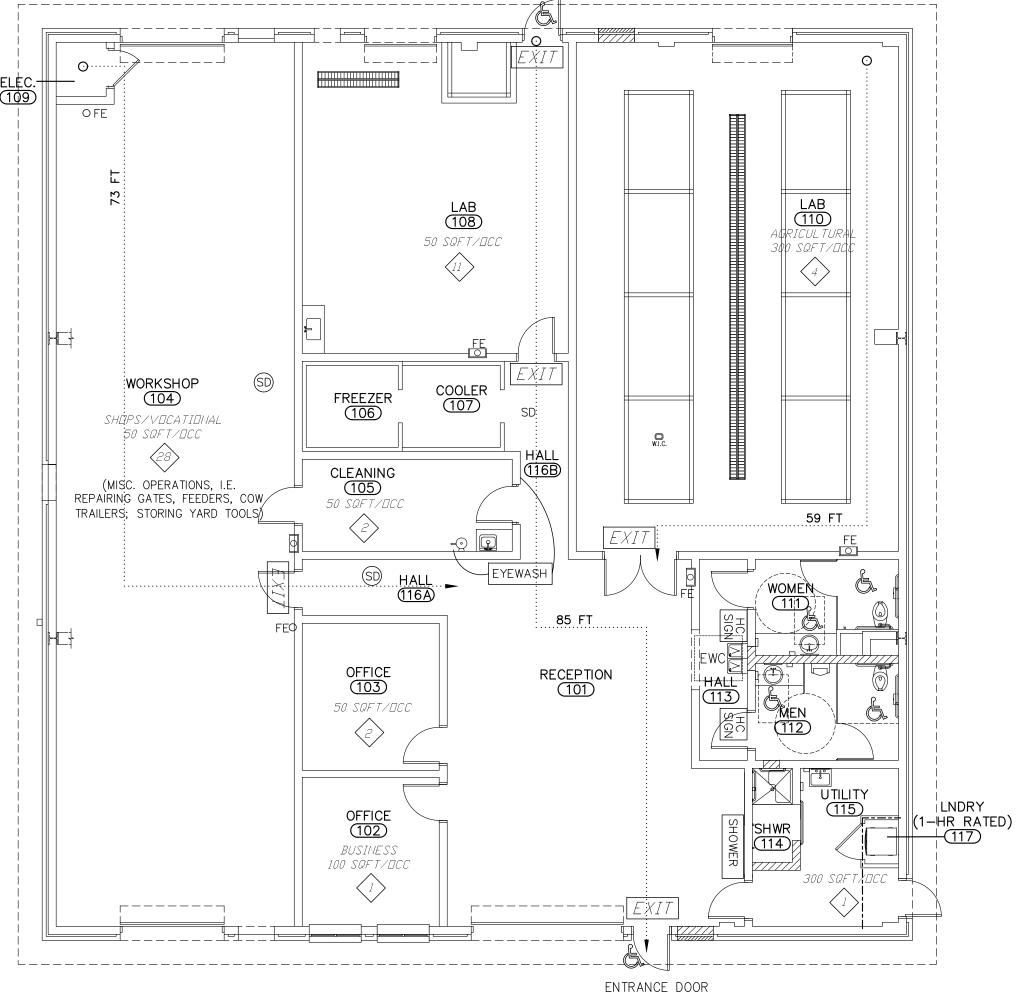
WALL INSULATION: EXISTING TO REMAIN

AIR LEAKAGE REQUIREMENTS:

- ALL JOINTS AND PENETRATIONS SHALL BE CAULKED, GASKETED OR COVERED WITH A MOISTURE VAPOR—PERMEABLE WRAPPING MATERIAL INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 2. OPENINGS AND PENETRATIONS IN THE BUILDING ENVELOPE SHALL BE SEALED WITH CAULKING MATERIALS OR CLOSED WITH WEATHERSTRIPPING OR GASKETING SYSTEMS.
- 3. OUTDOOR AIR INTAKE AND EXHAUST OPENINGS IN THE BUILDING ENVELOPE TO BE EQUIPPED WITH MOTORIZED DAMPERS.
- 4. ROLL-UP AND SIMILAR NON-SWINGING DOORS TO BE WEATHER SEALED.

ADDITIONAL CODE NOTES:

- A STAMPED SET OF CONSTRUCTION DRAWINGS SHALL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
- 2. FIRE EXTINGUISHERS: 10 LDS, 4A40BC RATING PER INTERNATIONAL FIRE CODE SECTION 906.
- 3. DRINKING FOUNTAIN: BARRIER FREE, WITH OUTER EDGE NOT TO EXTEND INTO THE 36" CLEAR AREA OF THE HALLWAY. DRINKING FOUNTAIN NOT REQ'D FOR FOOD—SERVING ESTABLISHMENTS THAT PROVIDE WATER UPON REQUEST.
- 4. SMOKING AREAS ARE NOT ALLOWED IN AREAS WHERE FLAMMABLE OR COMBUSTIBLE MATERIALS ARE STORED OR HANDLED. IN AREAS WHERE SMOKING IS NOT ALLOWED, INSTALL A CONSPICUOUS "NO SMOKING" SIGN OUT OF IMMEDIATE REACH OF OCCUPANTS.
- 5. MAINTAIN MIN. 44" CLEAR ALONG EGRESS PATHS.
- 6. CLOSETS AND UTILITY ROOMS SHALL NOT BE USED FOR STORAGE OF HIGH-PRESSURE BOILERS, REFRIGERATING MACHINERY (OTHER THAN DOMESTIC REFRIGERATOR TYPE), LARGE TRANSFORMERS OR OTHER SERVICE EQUIPMENT SUBJECT TO EXPLOSION.
- 7. ALL EXPOSED INSULATION SHALL HAVE A MAX. FLAME SPREAD RATING 25 AND A SMOKE DENSITY RATING OF LESS THAN 450.
- 8. PROVIDE NEW FIRE EXTINGUISHERS APPROXIMATELY WHERE SHOWN ON PLANS. ADD'L EXTINGUISHERS MAY BE REQUIRED BY THE FIRE MARSHALL.
- 9. EMERGENCY ILLUMINATION SHALL BE PROVIDED FOR NOT LESS THAN 1½ HOURS IN THE EVENT OF FAILURE OF NORMAL LIGHTING. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS NOT LESS THAN AN AVERAGE OF 1FT. CANDLE ALONG THE PATH OF EGRESS. NFPA 101 7.9.2.1. FIELD INSPECTOR WILL VERIFY ONSITE.
- 10. INTERIOR WALL OR CEILING FINISHES (NON-TEXTILES): ASTM E 84 CLASS A (ANY ROOM TYPE), B(OFFICES, NON-RATED CLOSETS) (NFPA 101 12.3.3.3, IBC T803.5)
- 11. OWNER SHALL PREPARE A FIRE EVACUATION PLAN IN ACCORDANCE WITH IFC SECTION 404.
- 12. MAXIMUM 1/2" RISE ALLOWED FROM EXTERIOR LANDING TO FINISH FLOOR ELEVATION.
- 13. ALL RATED WALLS RECEIVING MODIFICATIONS OR UPDATES TO BE LABELED WITH APPROPRIATE FIRE RATING.
- 14. FIRE EXTINGUISHERS TO BE MOUNTED AT 48 INCHES TO THE EXTINGUISHER HANDLE.
- 15. DOORS CONTAINING GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF THE PANEL LOCATED MAX. 43" A.F.F. (ALLOWING FOR CONSTRUCTION TOLERANCE).



1 LIFE SAFETY PLAN

A1.1 SCALE: 1/4" = 1'-0"

0 4'

8'



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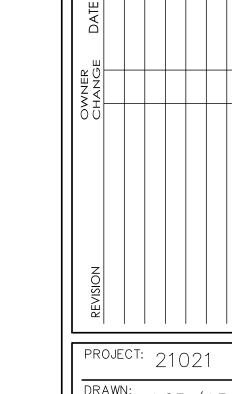
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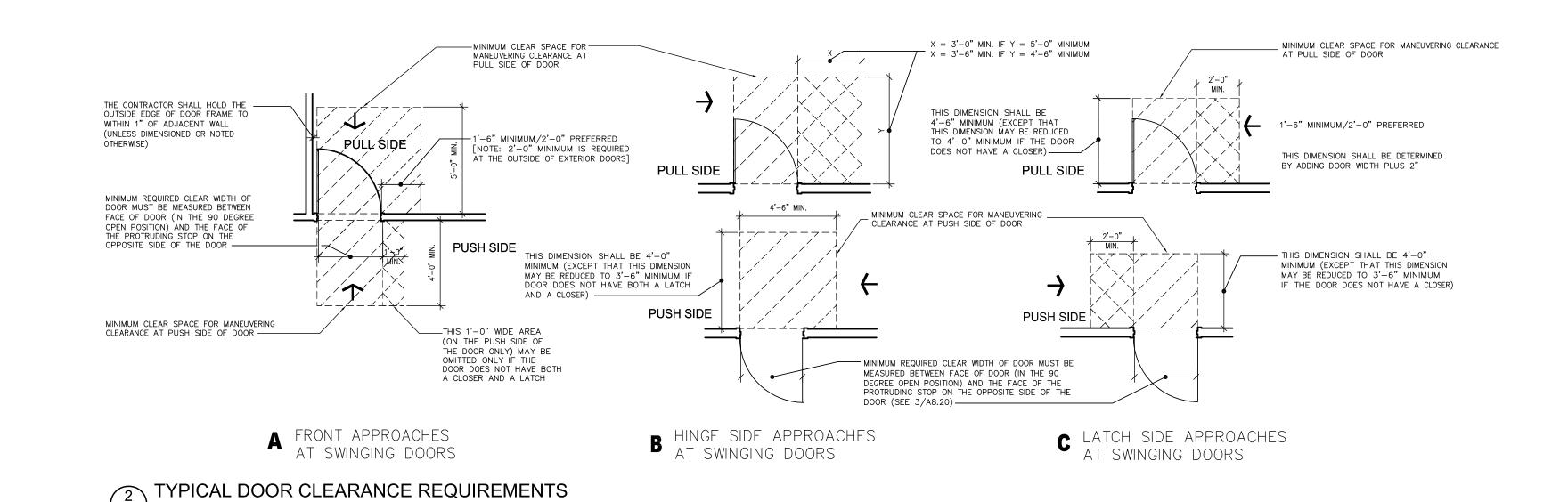
LIFE SAFETY

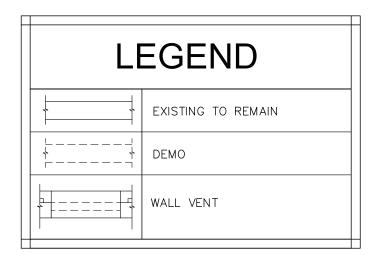
EGRESS CLEARANCES

EVALUATION

SHEET NO.

LS1.1



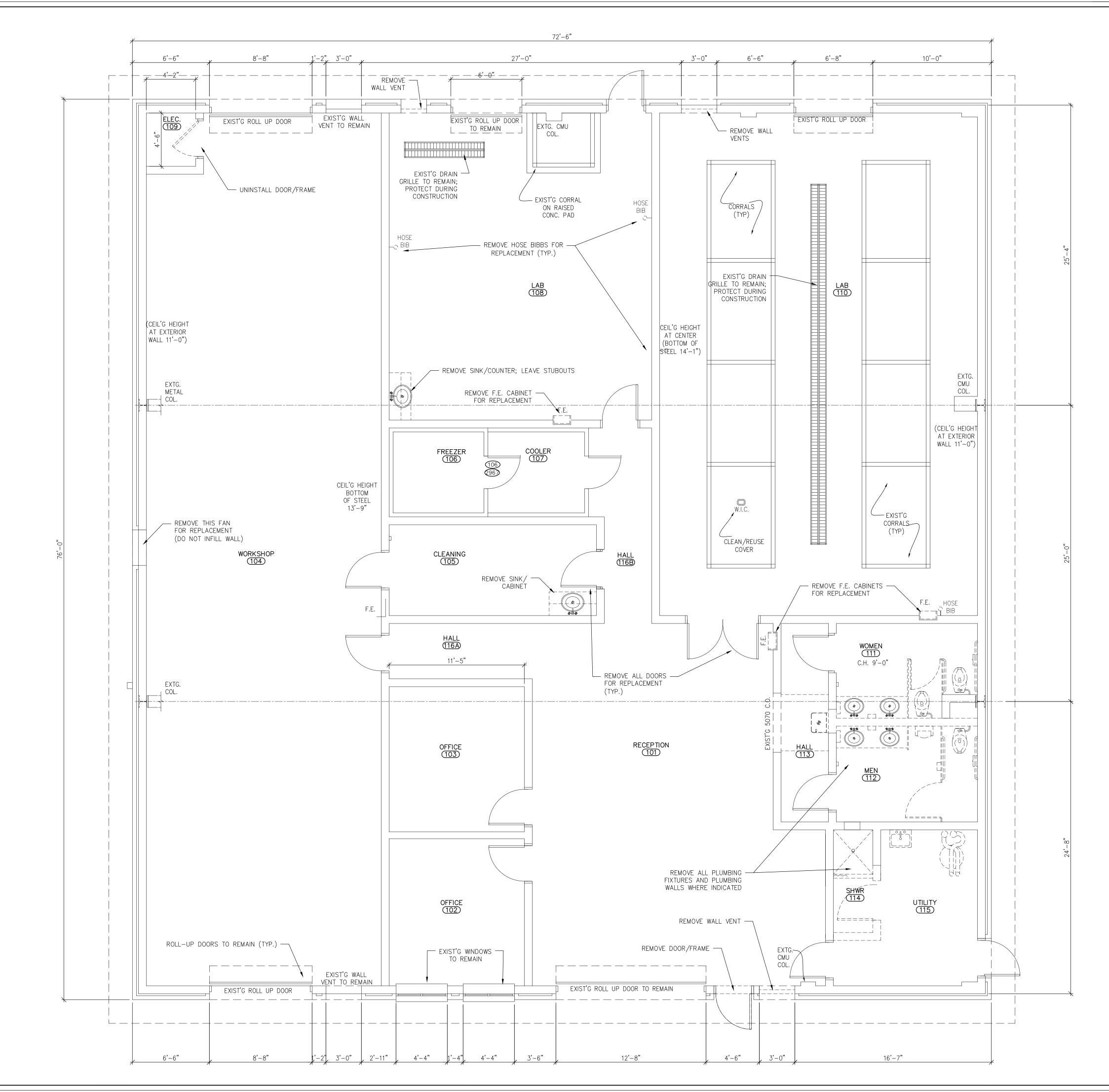


DEMOLITION NOTES: DEMOLITION INCLUDES THE FOLLOWING:

1. ALL PLUMBING FIXTURES, ACCESSORIES AND FINISHES

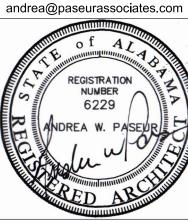
- IN RESTROOMS AND SHOWER AREAS.

 2. SINKS AND CABINETRY IN OTHER ROOMS.
- ACOUSTICAL CEILING SYSTEMS.
- 4. CONCRETE MASONRY WALLS, MECHANICAL, PLUMBING AND ELECTRICAL ITEMS WHERE INDICATED IN DEMOLITION PLAN.





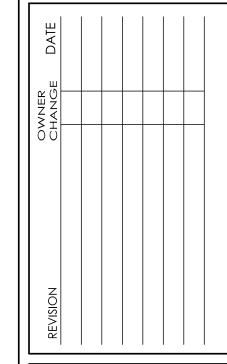
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A&M ANIMAL SCIENCE BUILDING RENOVATION



PROJECT: 21021

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DATE: 2/24/2023

SHEET TITLE

DEMOLITION PLAN

SHEET NO.

A0.1

LE	EGEND
	EXISTING 8" CMU WALL
	NEW 8" CMU WALL
÷////////	NEW BRICK VENEER
EXIT	EXIT SIGN
FE O	FIRE EXTINGUISHER CABINET
HC OR	HANDICAP ACCESSIBLE
SS	SERVICE SINK
EWC	ELECTRIC WATER COOLER

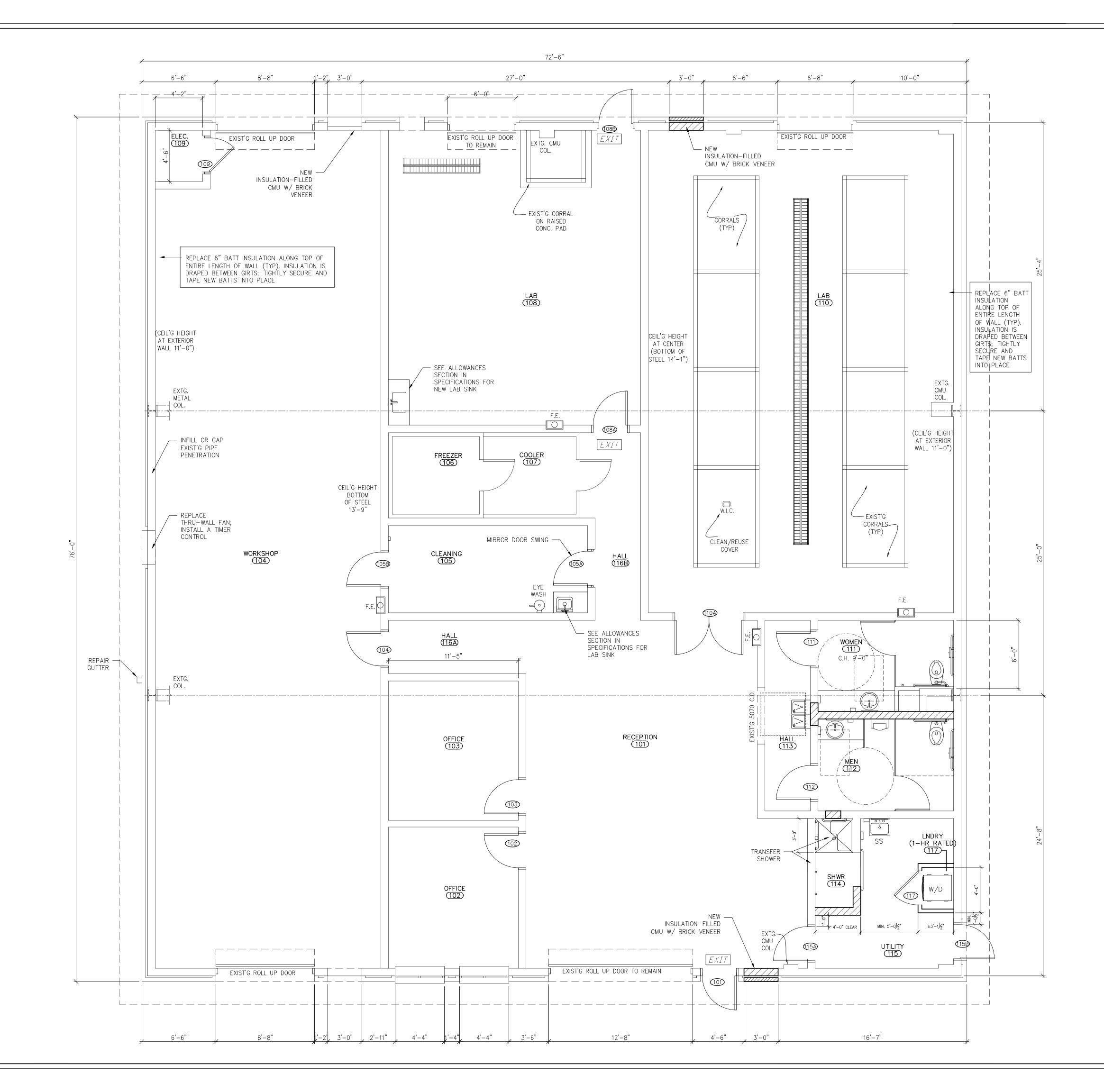
REPAIR NOTES

- 1. REMODEL RESTROOMS.
- 2. REPLACE ALL DOOR HARDWARE.
- 3. REPLACE, REPAIR, CLEAN AND REPAINT ALL DOORS PER DOOR SCHEDULE.4. REPLACE ALL FIRE EXTINGUISHER CABINETS. TEST EXISTING FIRE EXTINGUISHERS
- 4. REPLACE ALL FIRE EX
- 5. REPLACE OR RECONDITION FLOORS PER FINISH SCHEDULE. REMOVE EXISTING PAINT PRIOR TO INSTALLING NEW SEALERS.
- 6. REPLACE ELECTRICAL COVER PLATES AND OTHER ELEMENTS PER ELECTRICAL DRAWINGS.
- 7. CLEAN AND REPAINT WALLS.
 8. PATCH AND REPAIR EXISTING HOLES IN CMU WALLS OR DAMAGED AREAS IN
- CONCRETE FLOORS.
- 9. REPAIR ALL DAMAGED EXPOSED INSULATION.
 10. REPLACE HOSE BIBS AND OTHER PLUMBING EQUIPMENT PER PLUMBING DRAWINGS.
- 11. REPLACE MECHANICAL SYSTEM PER MECHANICAL DRAWINGS.
- 12. REMOVE FANS ONLY WHERE SHOWN IN DRAWINGS; PATCH EXTERIOR HOLE IN WALL TO MATCH EXISTING, INCLUDING BLOCK AND BRICK.
- 13. CLEAN, STRIP AND REPAINT EXISTING CORRAL RAILS.

GENERAL CONSTRUCTION NOTES

- 1. A STAMPED SET OF CONSTRUCTION DRAWINGS SHALL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
- 2. CONTRACTOR TO VISIT JOBSITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BEFORE SUBMITTING BID AND/OR PROCEEDING WITH ANY WORK. SUBMISSION OF BID INDICATES THAT THE CONTRACTOR HAS VERIFIED EXISTING CONDITIONS.
- 3. ALL WORK SHALL CONFORM TO CODES AND REGULATIONS OF AUTHORITIES HAVING JURISDICITION.
- 4. IN NO CASE SHALL DIMENSIONS BE SCALED FROM DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS ITHE THE FIELD BEFOR PROCEEDING WITH SUBSEQUENT WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK.
- 5. FIRE ASSEMBLY INTEGRITY: ALL RATED WALLS SHALL BE CONSTRUCTED FROM FLOOR SLAB TO THE HEIGHT OF STRUCTURE (BOTTOM OF RATED ROOF ASSEMBLY OR FLOOR DECK) ABOVE. WALLS SHALL FIT TIGHT TO GYP BD @ BOTTOM OF ROOF TRUSSES. BUILDING SYSTEMS COMPONENTS, PIPING, CONDUIT, DUCTWORK, DOORS, DOOR FRAMES, ETC. SHALL BE INSTALLED TIGHT TO RATED WALL ON BOTH FACES AND SHALL MEET ALL CODE REQUIREMENTS AT EACH PENETRATION. RATED WALLS ARE INDICATED GRAPHICALLY ON THE FIRST AND SECOND FLOOR PLAN DRAWINGS. UNLESS OTHERWISE DETAILED, ALL WALLS WILL FIT TIGHT TO RATED ASSEMBLY & BE APPROPRIATELY FIRE STOPPED.
- 6. RATED DOORS: RATED DOORS SHALL BE RATED AS A COMPLETE ASSEMBLY, INCLUDING FRAMES AND HARDWARE AS REQUIRED BY CODE.
- 7. INSULATION: IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO PROVIDE A COMPLETELY INSULATED FACILITY AT ALL EXT. WALLS, ROOFS AND SLAB-ON-GRADE PERIMETERS. CONTRACTOR SHALL TAKE SPECIAL CARE OF THE BUILDING ENVELOPE TO INSURE THAT THE INTEGRITY OF THE INSULATION IS REPAIRED.
- 8. THE CONTRACTOR, SUBCONTRACTORS AND SUPPLIERS ARE RESPONSIBLE FOR OBTAINING INFORMATION FOR QUANTITIES AND LOCATIONS FROM ALL DRAWINGS, ADDENDA, AND SPECIFICATIONS, OR OTHER DOCUMENTS INDICATED BY ARCHITECT AS THE MAIN SOURCE OF INFORMATION FOR BIDDING. ALL SUBCONTRACTORS AND SUPPLIERS SUBMITTING BIDS SHALL HAVE ACCESS TO A FULL SET OF DOCUMENTS, INCLUDING PLANS, SPECS, AND ADDENDA FOR THE PURPOSE OF PREPARING THEIR BID.
- 9. FIRE RATING DETAILS: DRAWING DETAILS INVOLVING FIRE PROTECTION SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE TO ENSURE PROPER FIRE PROTECTION, INCLUDING THE CONFIGURATION OF CUT CMU BLOCKS AND CONCRETE INFILL. SHOULD ANY SUCH DETAIL SEEM UNACHIEVABLE, THE CONTRACTOR SHALL COORDINATE AN ALTERNATE METHOD TO MEET THE ARCHITECT'S AND/OR STRUCTURAL ENGINEER'S APPROVAL.
- 10. CRAFTSMANSHIP: TRIM PIECES AND ACCESSORIES USED TO FINISH—OUT THE FACILITY (FOR EXAMPLE: WALL TO FLOOR BASE, STAIR NOSINGS, JOINT COVERS AND FILLERS, ETC.) SERVE BOTH A FUNCTIONAL PURPOSE AND AESTHETIC PURPOSE. ALL TRIM INSTALLATION SHALL HAVE A CLEAN, FINISHED, WELL—COORDINATED APPEARANCE. HAND—CUT, PIECES, JAGGED EDGES, OPEN—ENDED OR MISALIGNED TRIM PIECES WILL NOT BE ACCEPTED. UNNECESSARY COMPLICATIONS OF TRIM BECAUSE OF LACK OR FORETHOUGHT ARE NOT ACCEPTABLE. JOINTS SHALL BE MINIMIZED.
- 11. PRE-INSTALLATION INSPECTION AND APPROVAL: IT IS ESSENTIAL THAT A PRODUCT'S OR ASSEMBLY'S INSTALLER APPROVE SUBSTRATES AND OTHER SUPPORT CONDITIONS PRIOR TO PROCEEDING WITH THE INSTALLATION OF THE PRODUCT OR ASSEMBLY. ONCE THE INSTALLATION. IT SHALL BE UNDERSTOOD BY ALL PARTIES THAT INSTALLATION OF THE PRODUCT OR ASSEMBLY INDICATES APPROVAL OF THE SUBSTRATE AND SUPPORT CONDITIONS BY THE INSTALLER OF THE PRODUCT OR ASSEMBLY.
- 12. WALLS ARE TO BE PATCHED, TAPED, SANDED, PRIMED AND PAINTED UNLESS OTHERWISE NOTED.
- 13.14. FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER ROOM SHALL OCCUR UNDER THE DOOR IN ITS CLOSED POSITION.
- 15. CONTACT BETWEEN DISSIMILAR METALS SHALL BE PROTECTED.





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PROJECT: 21021

SHEET TITLE

SHEET NO.

ACB/AP

DATE: 2/24/2023

FLOOR PLAN

SITE LOCATION.

		D(OOR AN	ND FRA	AMF S	CHEDULE			
			DOOR	12 1 10		01123022		FRAME	DEMARKO
NO.	ACTION	SIZE: WIDTHXHEIGHTXTHICKNESS	MAT'L	FINISH	ELEV.NO.	OPN'G MAT'L	HARDWARE	MAT'L FINISH	REMARKS
101	NEW	NEW 3'-0" X 7'-0" X 13/4"	I.H.M.	PAINT	DR-4	TEMP. GLASS	SET 1	H.M. PAINT	EXTERIOR, EXIT
102	REPAIR	3'-0" X 7'-0" X 1¾"	H.M.	PAINT	DR-3	TEMP. GLASS	SET 5	STEEL PAINT	REPLACE LITE W/ TEMPERED GLASS
103	REPAIR	3'-0" X 7'-0" X 1¾"	H.M.	PAINT	DR-3	TEMP. GLASS	SET 5	STEEL PAINT	REPLACE LITE W/ TEMPERED GLASS
104	REPAIR	3'-0" X 7'-0" X 1¾"	H.M.	PAINT	DR-2	_	SET 4	STEEL PAINT	
105A	REPAIR/ REPLACE	3'-0" X 7'-0" X 1¾"	H.M.	PAINT	DR-3	TEMP. GLASS	SET 4	STEEL PAINT	MIRROR DOOR HINGES; REPLACE LITE W/ TEMPERED GLASS
105B	REPAIR	3'-0" X 7'-0" X 1¾"	H.M.	PAINT	DR-2	_	SET 4	STEEL PAINT	
108A	REPAIR	3'-0" X 7'-0" X 1¾"	H.M.	PAINT	DR-2	TEMP. GLASS	SET 8	STEEL PAINT	INTERIOR, EXIT, REPLACE LITE W/ TEMPERED GLASS
108B	REPAIR	3'-0" X 7'-0" X 1¾"	I.H.M.	PAINT	DR-1	_	SET 1	STEEL PAINT	EXTERIOR, EXIT; REUSE SWEEPS IF NOT DAMAGED DURING CONSTRUCTION
109	REPAIR	3'-0" X 7'-0" X 1¾"	H.M.	PAINT	DR-6	_	SET 2	STEEL PAINT	
110A	REPAIR	2 @ 3'-0" X 7'-0" X 1¾"	H.M.	PAINT	DR-5	_	SET 7	STEEL PAINT	
111	REPAIR	3'-0" X 7'-0" X 1¾"	H.M.	PAINT	DR-6	_	SET 3	STEEL PAINT	
112	REPAIR	3'-0" X 7'-0" X 1¾"	H.M.	PAINT	DR-6	_	SET 3	STEEL PAINT	
115A	REPAIR	3'-0" X 7'-0" X 1¾"	H.M.	PAINT	DR-2	_	SET 6	STEEL PAINT	
115B	REPAIR	3'-0" X 7'-0" X 1¾"	I.H.M.	PAINT	DR-1	_	SET 1	STEEL PAINT	EXTERIOR, EXIT
117	NEW	3'-0" X 7'-0" X 1¾"	H.M.	PAINT	DR-2	_	SET 2	STEEL PAINT	INTERIOR, 45-MIN RATED

H.M. = INSULATED HOLLOW METAL S.C.W. = SOLID CORE WOOD O.H.C. = OVERHEAD COILING

						ROOM FIN	ISH SCH	EDULE			
IDENTITY		FLOOR		В	ASE	WALLS			CEILING		REMARKS
NAME	NO.	MAT'L	FINISH	MAT'L	HT.	MAT'L	FINISH	MAT'L	FINISH	НТ.	NEWARKS
RECEPTION	101	EXSTG CONC.	LVT	RBBR	4"	EXIST'G CMU	PT-2	A.C.T.	_		
OFFICE	102	EXSTG CONC.	LVT	RBBR	4"	EXIST'G CMU	PT-2	A.C.T.	_	EXSTG 9'-6"	
OFFICE	103	EXSTG CONC.	LVT	RBBR	4"	EXIST'G CMU	PT-2	A.C.T.	_	EXSTG 9'-6"	
WORKSHOP	104	EXSTG CONC.	SEALER	_	_	EXIST'G CMU	PT-1	_	_	_	PAINT EXPOSED STEEL FRAME PT-1
CLEANING	105	EXSTG CONC.	SEALER	_	_	EXIST'G CMU	EP-1	A.C.T.	_	EXSTG 9'-6"	
FREEZER	106	_	_	_	_	_	_	_	_	_	EQUIPMENT TO REMAIN; CLEAN, PROTECT, VERIFY EXIST'G ELECTRICAL
COOLER	107	_	_	_	_	_	_	_	_	_	EQUIPMENT TO REMAIN; CLEAN, PROTECT, VERIFY EXIST'G ELECTRICAL
LAB	108	EXSTG CONC.	EPOXY	_	_	EXIST'G CMU	EP-1	_	_	_	PAINT EXIST'G STALL RAILS PT-1
ELECTRICAL	109	EXSTG CONC.	SEALER	_		EXIST'G CMU	PT-2	_	_	_	
LAB	110	EXSTG CONC.	EPOXY	_	_	EXIST'G CMU	EP-1	_	_	_	PAINT EXIST'G STALL RAILS PT-1
WOMEN	111	EXSTG/NEW CONC.	СТ	RBBR	4"	EXIST'G CMU	PT-1	A.C.T.	_	9'-6"	
MEN	112	EXSTG/NEW CONC.	СТ	RBBR	4"	EXIST'G CMU	PT-1	A.C.T.	_	9'-6"	
HALL	113	EXSTG CONC.	SEALER	RBBR	4"	EXIST'G CMU	PT-1	A.C.T.	_	9'-6"	
SHOWER	114	EXSTG CONC.	СТ	СТ	4"	EXIST'G CMU	EP-1	A.C.T.	_	9'-6"	
UTILITY	115	EXSTG CONC.	SEALER	RBBR	4"	EXIST'G CMU	PT-1	A.C.T.	_	EXSTG 9'-6"	
HALL	116A	EXSTG CONC.	SEALER	RBBR	4"	EXIST'G CMU	PT-2	A.C.T.	_	EXSTG 9'-6"	
HALL	116B	EXSTG CONC.	SEALER	RBBR	4"	EXIST'G CMU	PT-2	A.C.T.	_	EXSTG 9'-6"	
LAUNDRY	117	EXSTG CONC.	SEALER	RBBR	4"	STL. STUD/GYP BD	PT-1	A.C.T.	_	9'-6"	

A.C.T. = ACOUSTICAL CEILING TILE, 2 X 2 TEGULAR GRID

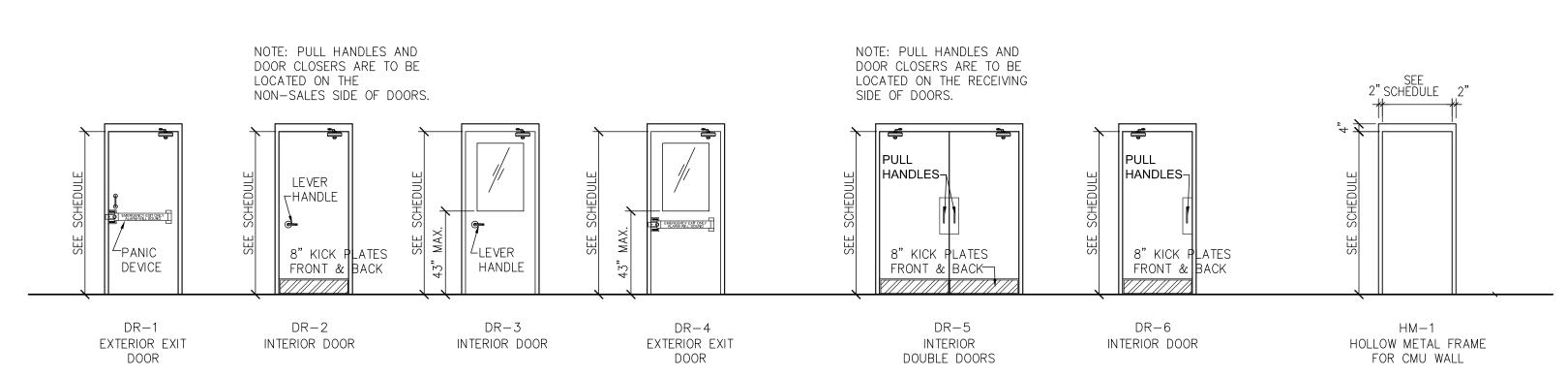
CONC. = CONCRETE EPOXY = EPOXY FLOORING; SEE SPECIFICATION "RESINOUS FLOORING"

EXSTG = EXISTING LVT = LUXURY VINYL TILE, HARDWOOD PATTERN

SEALER: SEALER AND POLISH SYSTEM PER SPECIFICATION "CONCRETE FLOOR FINISHES"

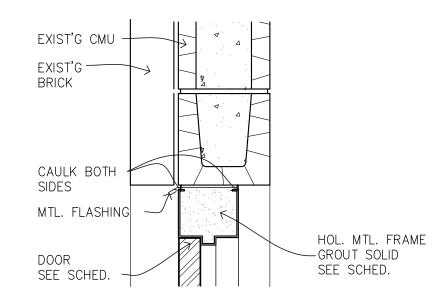
EP-1 = EPOXY PAINT FOR ANIMAL STALLS:PT-1 = PAINT, INTERIOR OIL BASED SATIN

PT-2 = PAINT, SATIN LATEX, LOW-LUSTRE
WD = WOOD, PRIMED FOR PAINT (MDF ACCEPTABLE FOR TRIM)



1 DOOR/FRAME ELEVATIONS

A2.1 SCALE: 1/4" = 1'-0"

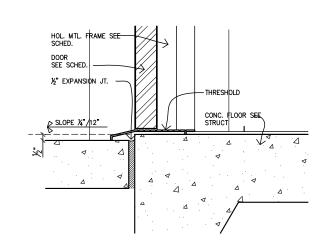


2 EXTERIOR DOOR HEAD

(3) EXTERIOR THRESHOLD

A2.1 | SCALE: 1 1/2" = 1'-0"

A2.1 SCALE: 1 1/2" = 1'-0"



DOOR NOTES:

- SEE SPECIFICATIONS FOR HARDWARE SCHEDULE.
 PROVIDE ALL HARDWARE, DOOR PULLS, HINGES, CLOSERS, ELECTRO-MAGNETIC DEVICES,
- WEATHER-STRIPPING ETC. REQUIRED TO PROVIDE A FULL AND COMPLETE INSTALLATION.

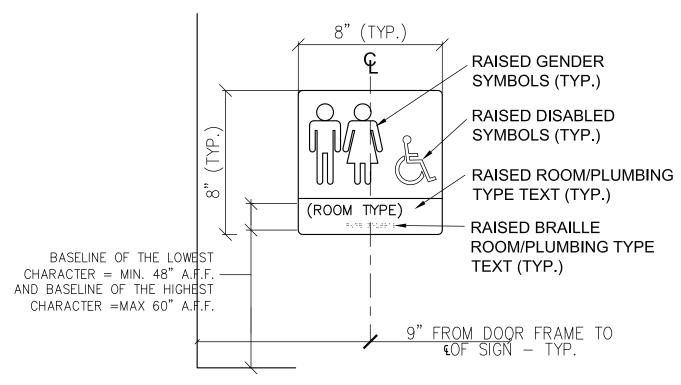
 3. INSTALL PRE-HUNG DOORS.

 4. LEVER HARDWARE ON NEW/RE-HUNG DOORS, PER NFPA/GAC 120-3-20-24 (9)
- REQUIREMENTS.

 5. NO KEY LOCKS ON EGRESS SIDE OF DOORS, PER NFPA 101, CHAPTER 7.
- 6. PROVIDE SILENCERS AT ALL METAL FRAME DOORS. PROVIDE WALL OR FLOOR MOUNTED DOOR STOPS AT ALL DOORS. (INSURE ADEQUATE BLOCKING FOR WALL MOUNTED STOPS.)
- SUBMIT TO ARCHITECT FOR APPROVAL.

 7. FIELD VERIFY ALL EXTERIOR DOOR OPENINGS PRIOR TO ORDERING EXTERIOR DOORS.
- 8. FRAME WIDTHS ARE NOMINAL. USE MANUFACTURER'S STANDARD WIDTHS CLOSEST TO THOSE SHOWN IN ELEVATIONS.
- 9. INSULATED GLAZING IN ALL EXTERIOR DOORS UNLESS NOTED OTHERWISE.10. AT ALL DOORS INDICATED AS "EXIT" ON LIFE SAFETY PLAN:
- A. INSTALL TACTILE SIGNAGE IN COMPLIANCE WITH ANSI A117.1 "AMERICAN NATIONAL STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES."

 B. INSTALL EXIT LIGHTING PER ELECTRICAL DRAWINGS.
- C. HARDWARE SHALL BE INSTALLED TO ENSURE THAT EXIT DOORS REMAIN OPERABLE AND UNHINDERED FROM THE EGRESS SIDE WHENEVER BUILDING IS OCCUPIED.
- 11. THRESHOLDS SHALL HAVE MAX. 1/2" RISE.
 12. PROVIDE A "PENCIL LINE CAULK" AT ALL EXPOSED CRACKS BETWEEN THE FRAME AND THE
- FINISH FLOOR. ALL FRAMES SHALL BE CAULKED CONTINUOUSLY TO THE WALL.
- 13. PROVIDE WEATHERSTRIPPING AT ALL EXTERIOR DOORS.14. VERIFY THAT CLOSERS AND OTHER HARDWARE ALLOWS MIN. 90 DEG. DOOR SWING (OR 180
- 14. VERIFY THAT CLOSERS AND OTHER HARDWARE ALLOWS MIN. 90 DEG. DOOR SWING (OR 180 DEG. IF INDICATED ON DOOR SCHEDULE).
- 15. DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (i.e. LEVER-OPERATED, PUSH-TYPE, U-SHAPED) MOUNTED NO HIGHER THAN 48" ABOVE THE
- 16. COMPLY WITH ADA STANDARD 404.2.11 FOR VISION LIGHTS. VISION LIGHTS CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE GLAZED PANEL LOCATED 43" ABOVE FINISH FLOOR.

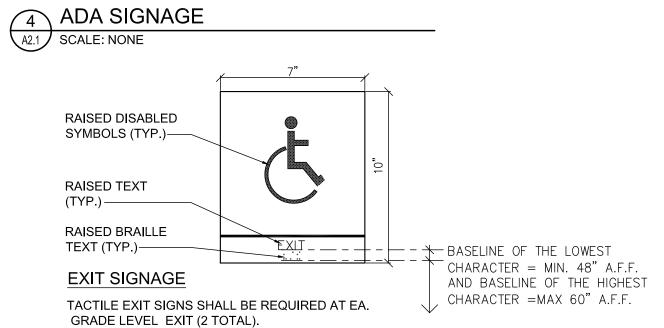


SIGN NOTES:

- 1. SIGNS SHALL CONFORM TO ADA STANDARD 703
 AT ALL BUILDINGS AND ENTRANCES THAT ARE
 ACCESSIBLE AND USABLE BY PERSONS WITH
 DISABILITIES SHALL BE IDENTIFIED WITH A
 MINIMUM OF ONE INTERNATIONAL SYMBOL OF
 ACCESSIBILITY.
- 2. G.C. TO PROVIDE TACTILE "EXIT" SIGNS AT ALL GRADE LEVEL EXIT DOORS PER CODE.
- GRADE LEVEL EXIT DOORS PER CODE.

 3. SIGNS TO BE INSTALLED ON THE LATCH SIDE OF THE DOOR, OR IF NO SPACE ON THE NEAREST
- WALL PREFERABLY ON THE RIGHT.

 4. SIGNAGE SHALL HAVE NON GLARE FINISH W/ A CONTRASTING BACKGROUND. SEE LS1.1 FOR LOCATION OF SIGNAGE.



5 ADA SIGNAGE
A2.1 SCALE: NONE

REVISION CHANGE DATE

8 ≥ **8** ≥

& ASSOCIATES

ARCHITECTURE, LLC

112-G Southsde Square Huntsville, AL 35801 Tel. 256-694-1170 andrea@paseurassociates.com

> REGISTRATION NUMBER 6229

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PROJECT: 21021

DRAWN: ACB/AP

DATE: 2/24/2023

SHEET TITLE

SCHEDULES -DOOR, FINISH, ADA SIGNAGE

SHEET NO.

A2.1

ACCESSIBILITY NOTES

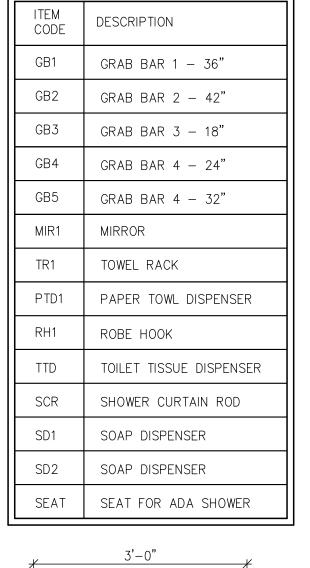
- 1. DOORS FOR TOILET PARTITIONS SHALL BE 3/4" X 58" HIGH WITH STANDARD HINGES, #502 CATCH SLIDE SURFACE STRIKE, #5140 FOR OUTSWINGING DOORS, AND #5260 SURFACE STRIKE FOR IN-SWINGING DOORS, COAT HOOK WITH RUBBER BUMPER.
- 2. STALL DOOR HINGE JAMB: 1-1/4" X 1-1/4" X 8'-0" MILL FINISH ALUMINUM TUBE HINGE JAMB POST FOR TOILET STALL DOORS. PRE-DRILL FOR #12 SCREWS @ 8" O.C.
- 3. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
- 4. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15" ABOVE THE FLOOR. EXCEPTION: HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
- 5. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOMS, AND PLACED 80" ABOVE THE FLOOR OR 6" BELOW CEILING, WHICHEVER IS LOWER.

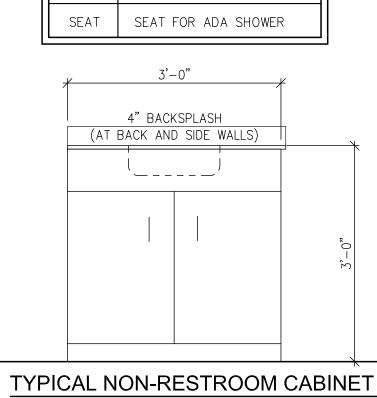
- 6. FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. CHANGES IN LEVEL BETWEEN 0.25" AND 0.5" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2". CHANGES IN LEVEL GREATER THAN 0.5" REQUIRE RAMPS. CARPET PILE THICKNESS SHALL BE 0.5" MAX. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5" WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5" IN HEIGHT.
- 7. GRAB BARS REQUIRED FOR ACCESSIBILITY SHALL BE 1.25"-1.50" IN DIAMETER WITH 1.5" CLEAR SPACE BETWEEN THE BAR AND THE WALL.
- 8. HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER ACCESSIBLE LAVATORIES AND SINKS.
- 9. ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESSIBLE FAUCETS (i.e. LEVER-OPERATED, PUSH-TYPE, ELECTRONICALLY CONTROLLED.)

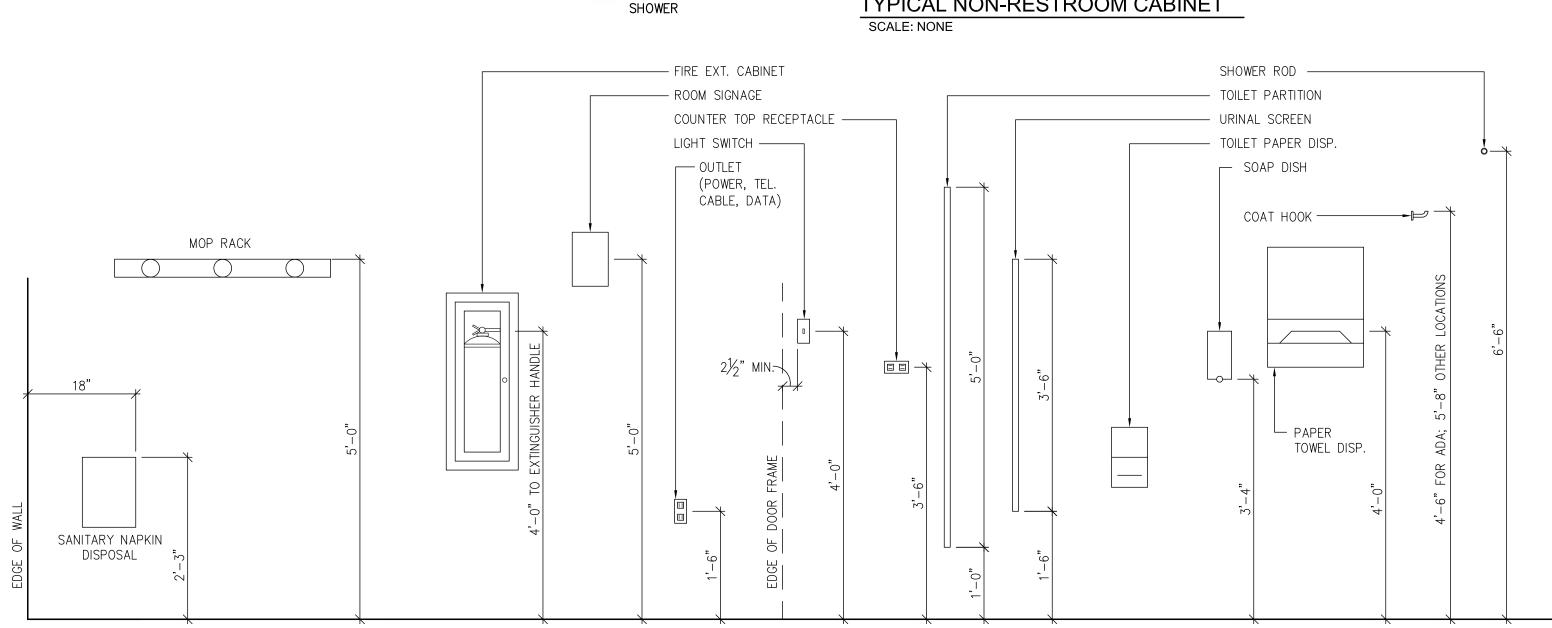
back wall

------48 min

ACCESSORY SCHEDULE ITEM CODE DESCRIPTION GB1 GRAB BAR 1 - 36" GRAB BAR 2 - 42" GRAB BAR 3 - 18" GRAB BAR 4 - 24" GB5 GRAB BAR 4 - 32" MIR1 MIRROR TOWEL RACK PAPER TOWL DISPENSER RH1 ROBE HOOK TTD TOILET TISSUE DISPENSER SCR SHOWER CURTAIN ROD SD1 SOAP DISPENSER SD2 SOAP DISPENSER SEAT SEAT FOR ADA SHOWER





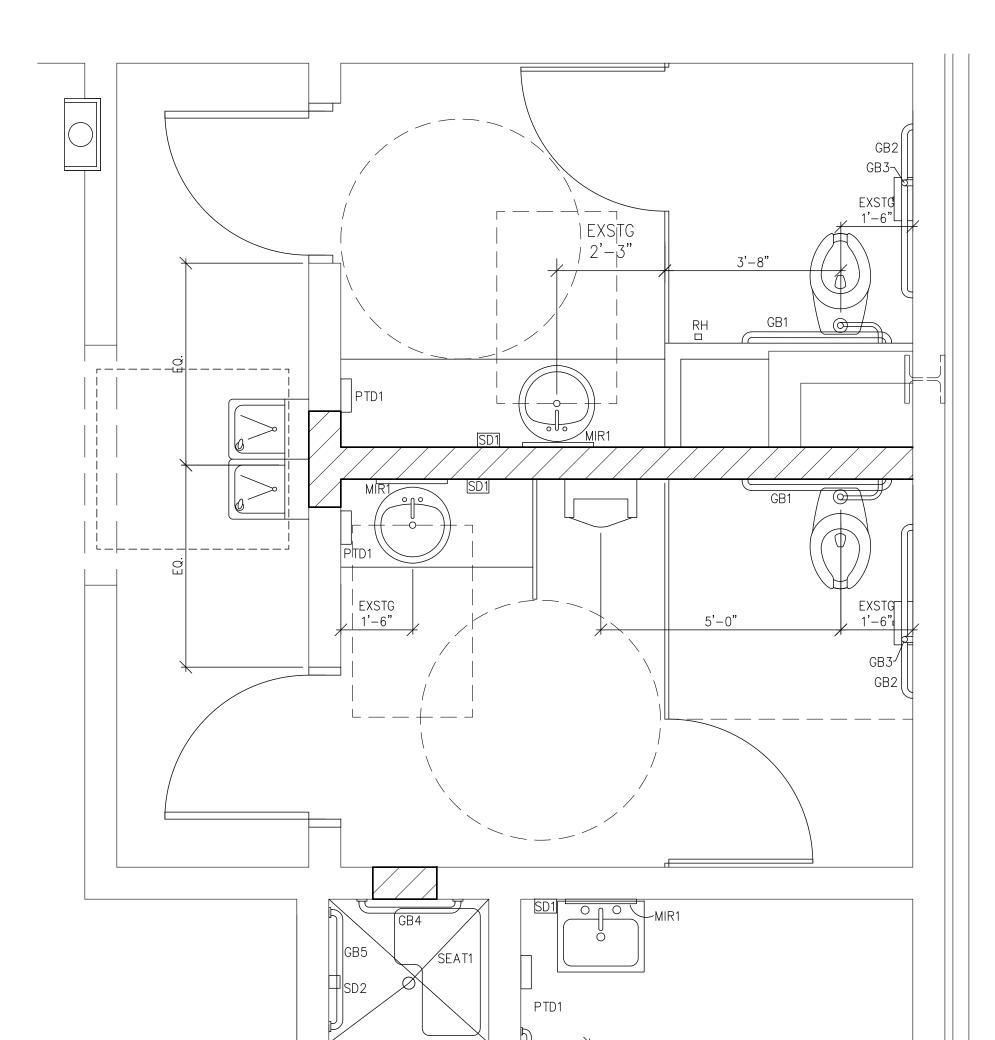


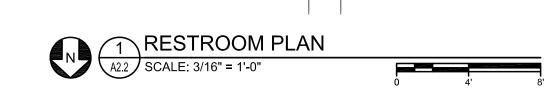
SCHEDULE NOTES 1. OTHER MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK, INCLUDE, BUT ARE NOT LIMITED TO: "BOBRICK", "GENERAL ACCESSORY MANUFACTURING CO.", "McKINNEY/PARKER WASHROOM ACCESSORIES

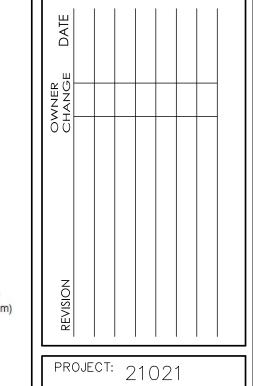
- 2. ALL TOILET ACCESSORIES, INCLUDING THOSE TO BE PROVIDED BY THE OWNER, ARE TO BE INSTALLED ACCORDING TO ADA ACCESSIBILITY GUIDELINES.
- 3. ALL FIXTURES SHOWN MAY NOT BE REQUIRED FOR ALL PROJECTS. OWNER SHALL DETERMINE FIXTURES TO BE USED THAT ARE NOT ALREADY SPECIFIED IN THESE DRAWINGS.

BLOCKING/MOUNTING NOTES:

- 1. INSTALL WOOD BLOCKING IN WALLS FOR MOUNTING SUPPORT FOR GRAB BARS AND OTHER FIXTURES PER MANUFACTURER'S INSTRUCTIONS.
- 2. BLOCKING REQUIRED IN ALL WALLS AND STAIRS WITH ADA RAILS, CABINETRY AND RESTROOM ACCESSORIES.
- CONTRACTOR TO VERIFY REQUIREMENTS WITH LOCAL BUILDING OFFICIALS PRIOR TO BIDDING. CONTRACTOR IS RESPONSIBLE FOR OBTAINING MANUFACTURES' CUT SHEETS AND LOCATING BLOCKING AS REQUIRED. THIS INCLUDES KITCHEN EQUIPMENT AND ITEMS FURNISHED AND INSTALLED BY OTHERS.
- 4. GRAB BAR SUPPORT BAR FASTENER & MOUNTING SUPPORT SHALL BE ABLE TO WITHSTAND 250#/FT. IN BENDING, SHEAR & TENSION.
- SHOWER GRAB BAR MOUNTING LOCATIONS TO BE VERIFIED AND APPROVED FOR ADA COMPLIANCE BY ARCHITECT PRIOR TO INSTALLATION.







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REGISTRATION

NUMBER

6229

ANDREA W. PASEUR

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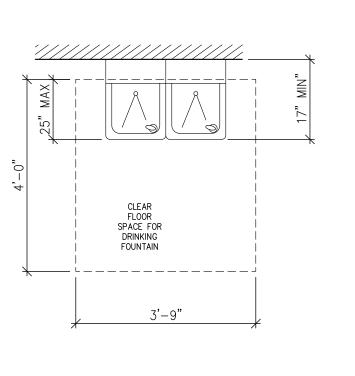
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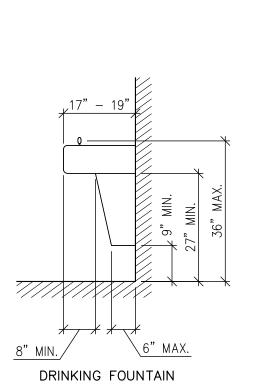
ACB/AP DATE: 2/24/2023

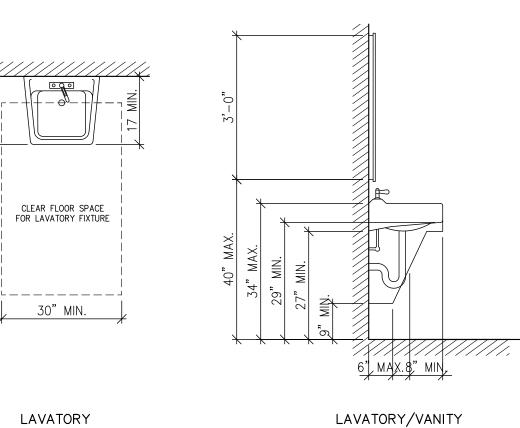
SHEET TITLE

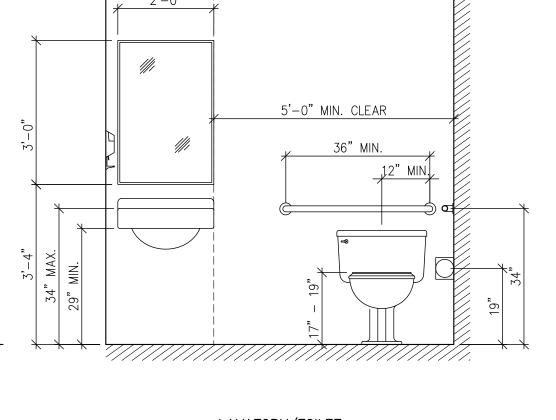
SCHEDULES -RESTROOM & **FIXTURES**

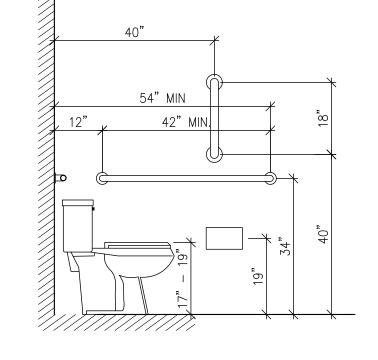
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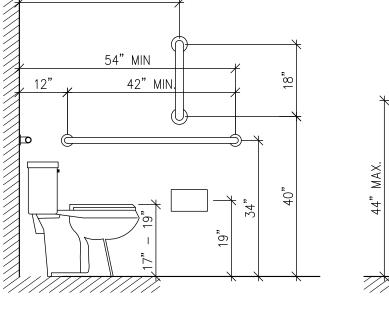








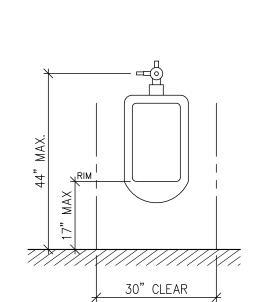
TOILET



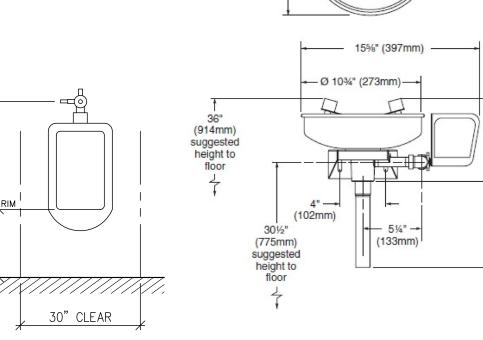
EXIST'G 3'-4"

4'-0" CLEAR

SCR



URINAL



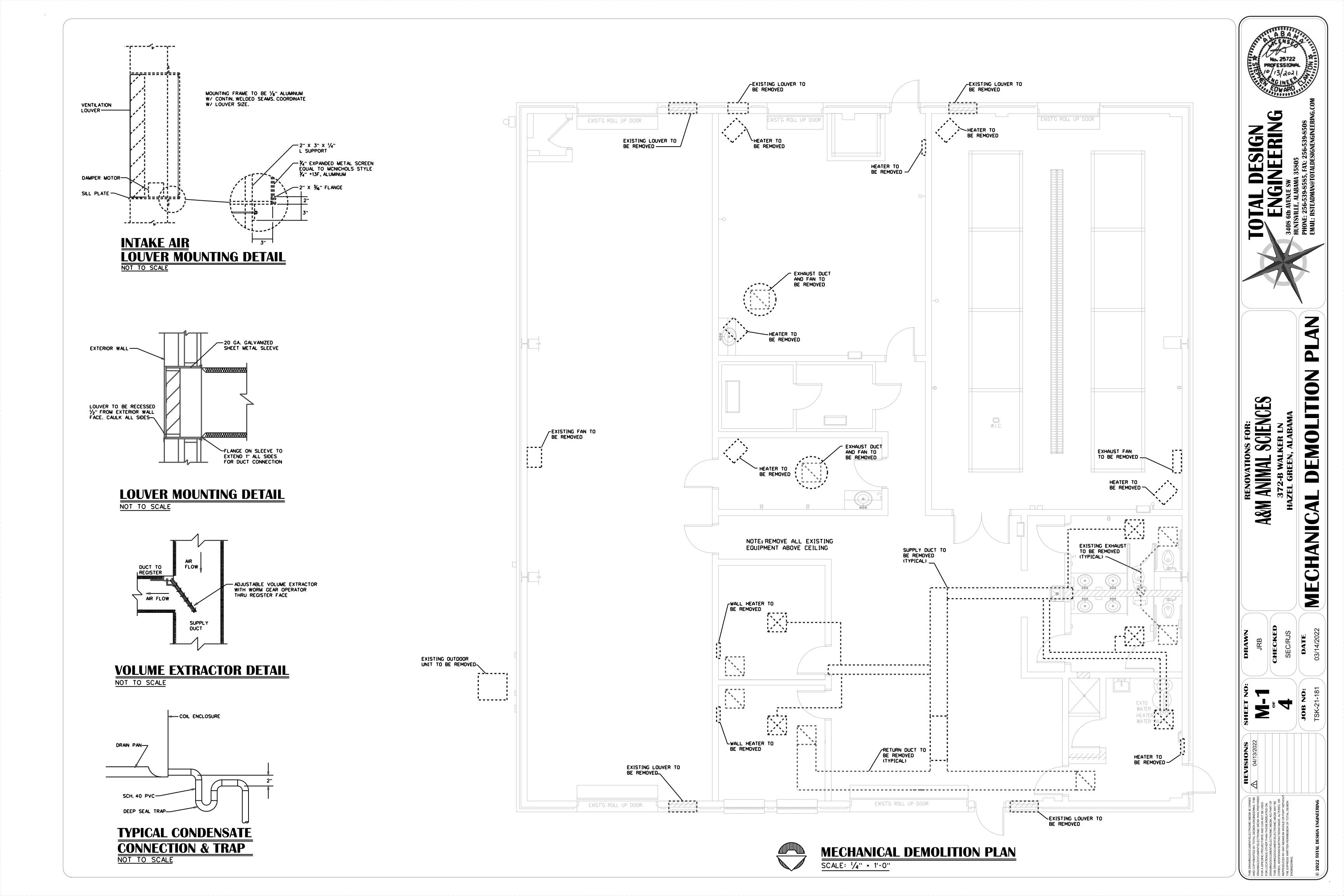
EYEWASH

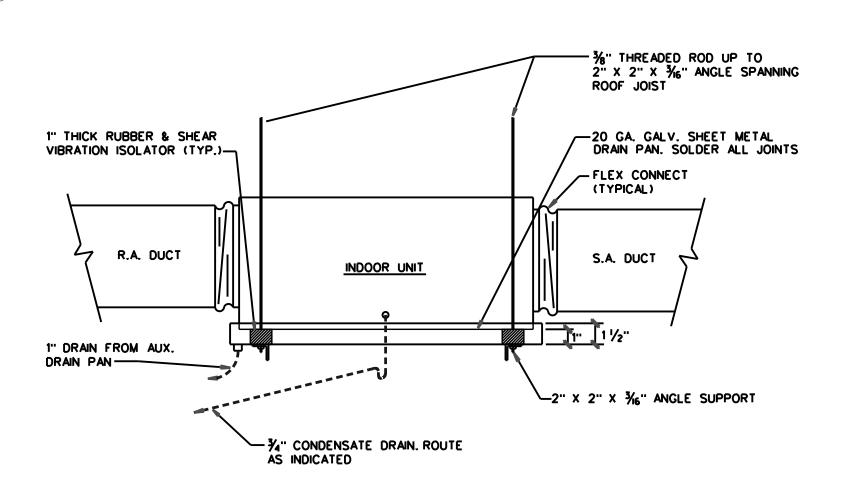
DRINKING FOUNTAIN FIXTURE MOUNTING REQUIREMENTS

SCALE: NONE

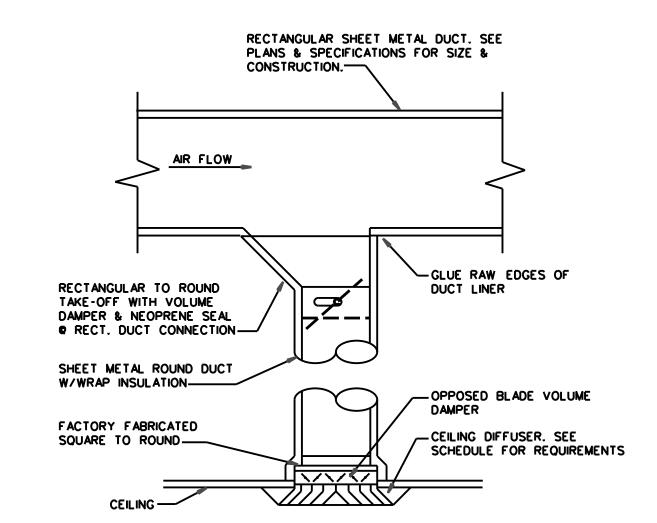
NOTE: USE THIS PROFILE IN RESTROOM VANITY CONSTRUCTION

LAVATORY/TOILET

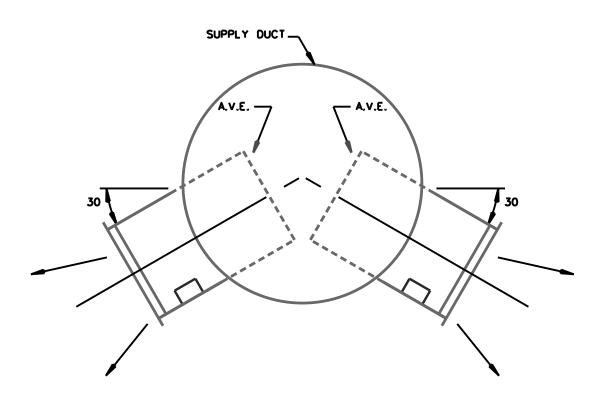




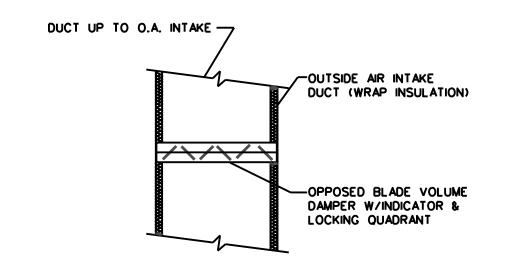
INDOOR UNIT MOUNTING DETAIL NOT TO SCALE



DIFFUSER DUCTING DETAIL NOT TO SCALE

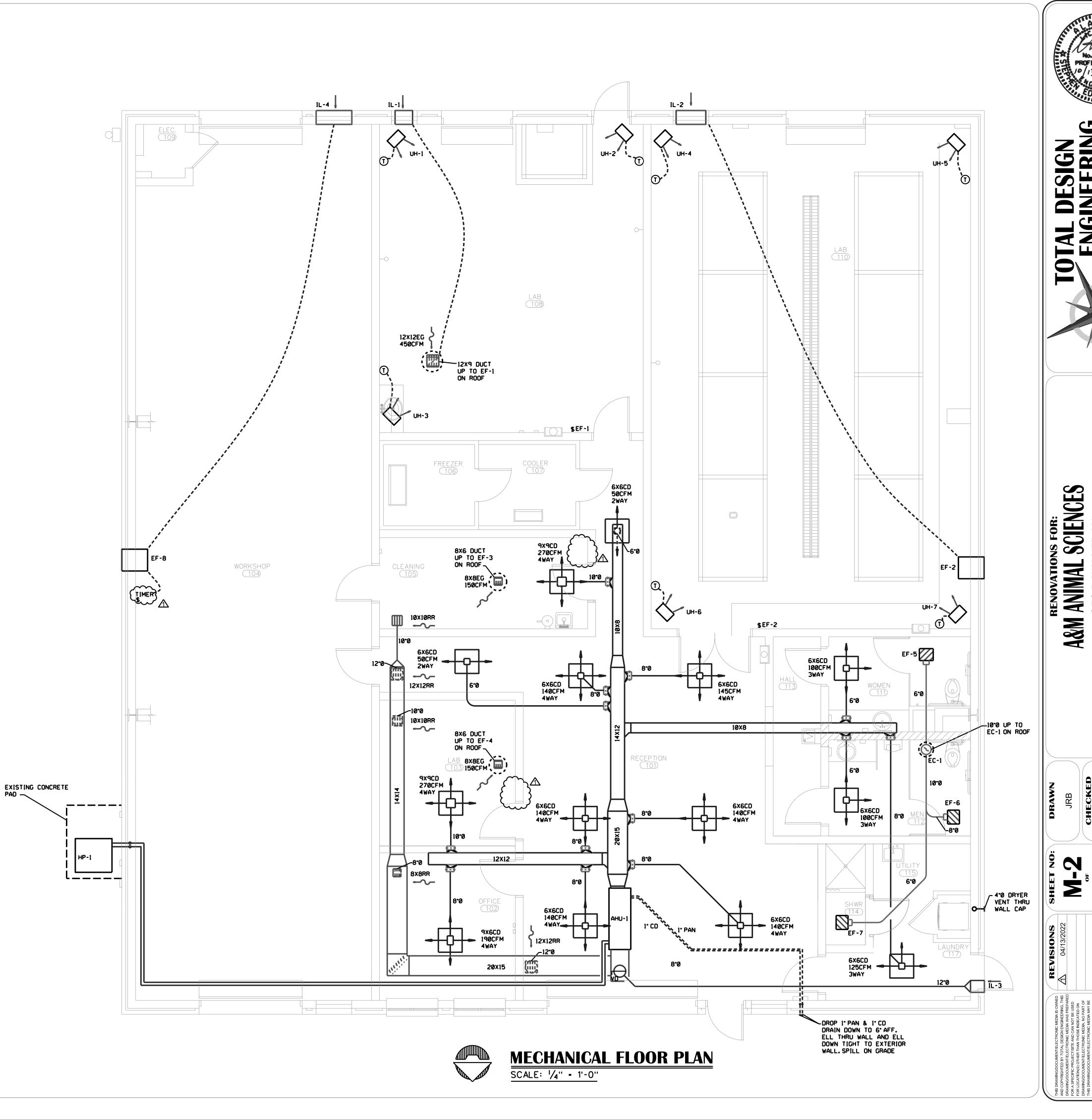


DUCT SECTION DETAIL NOT TO SCALE



VOLUME DAMPER DETAIL

NOT TO SCALE



	5 TON
SYSTEM BASIS OF DESIGN, MANUFACTURER	TRANE
OUTSIDE AIR CFM	349
SEER	14.50
TOTAL CAPACITY AT ARI, MBH	57.98
AIR HANDLING UNIT	
MARK	AHU-1
SUPPLY FAN	
SUPPLY AIR CFM	2000
EXTERIOR STATIC PRESSURE IN. WG	.50
MOTOR HP	1
MODEL	GAM5AOC60M51SA
AUXILIARY ELECTRIC HEAT	
KW	7.20
MCA	34.0
MAX OCP	35.0
VOLT / PHASE	208/3/60
HEAT PUMP	
MARK	HP-1
HEAT PUMP, HIGH TEMP MBH	52.50
MCA	21.0
MAX OCP	35.0
VOLT / PHASE	208/3/60
MODEL	4 TWA4060A3000A
OPTIONS:	1,2,3,4,5
WEIGHT (NET) (LBS):	248.0

NOTES:
INSTALL UNITS PER MANUFACTURERS SPECIFICATIONS

		CT SYSTEN	
		FORCEMENTSSPACED AT 10-F	ı
LARGEST DIMENSION, INCHES	GALVANIZED STEEL GAGE	ALUMINUM, * B&S GAGE	COPPER, * B&S GAGE
THROUGH 26	26	24	24
27-30	24	22	20
31-36	22	20	18
37-48	20	18	18
49-60	18	16	14
73-84	16	14	12
85-96	16	BUT 8-FT REINFORCEM	ENT SPACING REQUIRE
OVER 96	18	BUT 5-FT CLASS-H SP	PACING
		ATIC PRESSURE POSITIVE OR FORCEMENTSSPACED AT 10-F	
LARGEST DIMENSION, INCHES	GALVANIZED STEEL GAGE	ALUMINUM, * B&S GAGE	COPPER, * B&S GAGE
THROUGH 14	26	24	24
15-24	24	22	20
25-30	22	20	18
31-36	20	18	18
37-42	18	16	14
43-54	16	14	12
55-60	18	BUT 8-FT REINFORCEM	ENT SPACING REQUIR
61-84	18	BUT 5-FT CLASS-H SP	ACING
85-96	16	BUT 8-FT REINFORCEM	ENT SPACING REQUIR
OVER 96	18	BUT 5-FT CLASS-H SP	ACING
RECTANGULAR DUCT	WORK, 2-IN. WG STATIC PR	ESSURE POSITIVE OR NEGATIVE	VE, UP TO 2,500 FPM
LARGEST DIMENSION, INCHES	GALVANIZED STEEL GAGE	REINFORCEMENT SPA	ACING INTERVALS, FT.
THROUGH 18	22	1	0
19-26	20	1	0
27-30	18	1	0
31-36	16	1	0
37-48	16	1	B
49-60	18	<u> </u>	5
61-72	16	!	5
73-84	18	4, CL	ASS J
85-96	16	4, CL	ASS K
OVER 96	18	21/2, CI	.ASS H

	ROUND D	UCTWORK, GA	ALVANIZED ST	EEL, GAGE SEI	LECTION	
DUCT DIAMETER,		MAXIMUM 2-IN. WG STATIC POSITIVE		10-IN. WG POSITIVE		1 2-IN. WG POSITIVE
IN.	SPIRAL SEAM GAGE, IN.	LONGITUDINAL SEAM GAGE, IN.	SPIRAL SEAM GAGE, IN.	LONGITUDINAL SEAM GAGE, IN.	SPIRAL SEAM GAGE, IN.	LONGITUDINAL SEAM GAGE, IN.
3-8	28	28	26	24	28	24
9-14	28	26	26	24	26	24
15-26	26	24	24	22	24	22
27-36	24	22	22	20	22	20
37-50	22	20	20	20	20	18
51-60	20	18	18	18	18	16
61-84	18	16	18	16	16	14

UNIT HEATER	SCHEDU	J LE					
MARK	UH-1	UH-2	UH-3	UH-4	UH-5	UH-6	UH-7
HEATING CAPACITY	3 kW	3 kW	3 kW	3 kW	3 kW	3 kW	3 kW
CFM	310	310	310	310	310	310	310
НР	为0	% o	⅓ o	₺0	% 0	‰	% 0
VOLTAGE	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60
MANUFACTURER	REZNOR	REZNOR	REZNOR	REZNOR	REZNOR	REZNOR	REZNOR
MODEL	EGEB-3	EGEB-3	EGEB-3	EGEB-3	EGEB-3	EGEB-3	EGEB-3
NOTES: 1. INSTALL PER MANUFACTURER'S 2. THERMOSTAT CONTROLLED	S SPECIFICATIONS ANI	CLEARANCE REQU	JIREMENTS.				

MARK	EF-1	EF-2	EF-3 & EF-4	EF-5	EF-6	EF-7	EF-8
ТҮРЕ	ROOF	SIDEWALL	ROOF	CEILING	CEILING	CEILING	SIDEWALL
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
MOTOR HP / W	⅓ _o HP	1 /₂ HP	⅓ ₅ HP	80.0 W	83.0 W	13.0 W	1/2 HP
AIRFLOW (CFM)	450	880	150	75	150	50	1115
STATIC PRESSURE (IN WC)	.25	.25	.25	.25	.25	.25	.25
ELECTRICAL (VOLTS/PH/HZ)	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL	G-090-VG	SE1-14-440-VG	G-060-VG	SP-B110	SP-A250	SP-880	SE1-14-440-VC
ACCESSORIES	POWER VENTILATORS, DISCONNECT, SWITCH, EC MOTOR, BACK-DRAFT DAMPER	EC MOTOR, DISCONNECT, BACK-DRAFT DAMPER	EC MOTOR, CONTROL DIAL, POWER VENTILATORS, SWITCH, DISCONNECT, BACK-DRAFT DAMPER	DISCONNECT, BACK-DRAFT DAMPER, ISOLATION KIT	DISCONNECT, BACK-DRAFT DAMPER, ISOLATION KIT	DISCONNECT, BACK-DRAFT DAMPER, ISOLATION KIT	EC MOTOR, DISCONNECT, BACK-DRAFT DAMPER
CONTROL	△ (SWITCH)	SWITCH	SWITCH W/LIGHTS	SWITCH W/LIGHTS	SWITCH W/LIGHTS	SWITCH W/LIGHTS	TIMER
NOTES	1,2	1,3,4	1,2	1,3,4	1,3,4	1,3,4	1,3,4

VENTILA	TION	AIR S	SCHE	DULE	-							
SPACE/ROOM NO.	AREA (SF)	ZONE POPULATION	OUTDOOR AIR (CFM/PERSON)	OUTDOOR AIR (CFM/SF)	BREATHING ZONE OA FLOW (CFM)	ZONE DISTRIBUTION EFFECTIVENESS	ZONE OA FLOW (CFM)	ZONE PRIMARY FLOW (CFM)	CALCULATED PRIMARY OA FRACTION	SYSTEM VENTILATION EFFICIENCY	OCCUPANT DIVERSITY	REQUIRED OA FLOW (CFM)
AHU-1												
RECEPTION 101	775	24	5	.06	167	1.0	167	845	.19	.90	1	167
OFFICE 102	155	1	5	.06	14	1.0	14	190	.07	1	1	14
LAB 103	150	4	10	.18	68	1.0	68	270	.25	.90	1	68
LAB 105	150	4	10	.18	67	1.0	67	270	.25	.90	1	67
WOMEN 111	100	-	-	.06	6	1.0	6	100	.06	1	1	6
MEN 112	100	-	-	.06	6	1.0	6	100	.06	1	1	6
UTILITY 115	100	-	-	.06	11	1.0	11	125	.09	1	1	11
HALL 116A	63	-	-	.06	5	1.0	5	50	.10	1	1	5
HALL 116B	175	-	-	.06	5	1.0	5	50	.10	1	1	5
TOTALS	1,768							2000				349

MARK	IC-1				
SERVICE	INTAKE				
CONSTRUCTION	ALUMINUM				
THROAT AREA (SQUARE FEET)	.394				
FACE AREA (SQUARE FEET)	1.38				
AIRFLOW (CFM)	-350				
STATIC PRESSURE DROP (IN WC)	0.1				
MANUFACTURER	соок				
MODEL	PR-8				
ACCESSORIES	1, 3, 4				

4. FACTORY APPLIED EPOXY FINISH, COLOR SELECTED BY ARCHITECT.

2. ROOF CURB MODEL NO. GPIP.

4. DISCHARGE THRU LOUVER.

3. FACTORY APPLIED EPOXY FINISH, COLOR SELECTED BY ARCHITECT.

REGISTER, GRILLE & DIFFUSER SCHEDULE									
SYM	ТҮРЕ	MANUFACTURER	MODEL	REMARKS					
SR	SUPPLY REGISTER	TITUS	272FS	BAKED WHITE W/VOLUME DAMPER					
CD	CEILING DIFFUSER	TITUS	TDCAA-3	BAKED WHITE W/VOLUME DAMPER					
RR	RETURN REGISTER	TITUS	50F	BAKED WHITE W/VOLUME DAMPER					
EG	EXHAUST GRILLE	TITUS	50F	BAKED WHITE FINISH					

1. REGISTERS, GRILLES, & DIFFUSERS HAVE BEEN SPECIFIED AS TITUS TO ESTABLISH QUALITY. EQUAL PRODUCTS BY ANEMOSTAT OR METALAIRE WILL BE CONSIDERED.

2. BAKED WHITE FINISH IS A BASELINE. COORDINATE WITH ARCHITECT AND OWNER PRIOR TO ORDERING

LOUVER SCHEDULE								
MARK	IL-1	IL-2	IL-3	IL -4				
SERVICE	INTAKE	INTAKE	INTAKE	INTAKE				
CONSTRUCTION	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM				
THROAT AREA (SQUARE FEET)	.83	1.45	.54	1.75				
LOUVER SIZE (INCHES)	18X18	30X18	12X18	36X18				
AIRFLOW (CFM)	450	880	375	1115				

DOWCO

A-LEC-04

1,2,4

DOWCO

LEC-04

DOWCO

A-LEC-04

1,2,5

ACCESSORIES:

1. INSECT SCREEN

MANUFACTURER

MODEL

ACCESSORIES

2. FACTORY APPLIED EPOXY FINISH, COLOR SELECTED BY ARCHITECT.
3. MOTORIZED DAMPER INTERLOCKED WITH EF-1
4. MOTORIZED DAMPER WITH EF-2

DOWCO

A-LEC-04

1,2,3

5. MOTORIZED DAMPER WITH EF-8

MECHANICAL LEGEND

VD - VOLUME DAMPER T - THERMOSTAT

MECHANICAL NOTES

1. DUCT SIZES ARE BASED ON FREE AREA OPENING. SUPPLY DUCTS LOCATED IN INTERIOR UNCONDITIONED SPACES SHALL HAVE AN INSULATION RATING OF NO LESS THAN R-6. SUPPLY AND RETURN DUCTS LOCATED IN EXTERIOR AREAS SHALL HAVE AN INSULATION RATING OF NO LESS THAN R-8. EXTERIOR INSULATION (IF USED) SHALL INCLUDE A VAPOR BARRIER. THE CONTRACTOR WILL ADJUST ACCORDINGLY TO COMPENSATE FOR DUCT LINER (IF USED). ROUND AND RECTANGULAR EQUIVALENT DIMENSIONS ARE ALLOWABLE.

2. THE CONTRACTOR SHALL SELECT DIFFUSERS WITH A NOISE CRITERIA RATING OF NO GREATER THAN NC 40 BASED ON THE SPECIFIED FLOWRATES. DIFFUSERS SHALL CONSIDER THROW AND DROP PERFORMANCE TO PROVIDE APPROPRIATE COVERAGE TO THE CONDITIONED AREAS. ALL DIFFUSERS SHALL PROVIDE FOR ADJUSTABLE FLOWRATE; CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING TO DESIGN FLOWRATES.

3. ALL 90 DEG. ELBOWS SHALL INCLUDE TURNING VANES.

4. INSTALL A SMOKE DETECTOR IN THE RETURN DUCTS AND SUPPLY DUCTS PRIOR TO FRESH AIR INTAKE UPON ACTIVATION THE SMOKE DETECTOR SHALL SHUT DOWN THE AHU. THE DUCT SMOKE DETECTOR SHALL ALSO BE CONNECTED TO A FIRE ALARM SYSTEM IF SYSTEM IS REQUIRED BY CODE WHICH UPON ACTIVATION SHALL ACTIVATE A VISIBLE AND AUDIBLE SIGNAL. DUCT DETECTORS TO BE INSTALLED ON ALL UNITS OVER 2000 CFM, AND ALL UNITS THAT SERVE EGRESS CORRIDORS.

5. MECHANICAL CONTRACTOR TO COORDINATE EXACT LOCATION OF DIFFUSERS AND REGISTERS WITH GRID AND LIGHTS.

6. MECHANICAL CONTRACTOR TO TIE SUPPLY AND RETURN DIFFUSERS AND GRILLES TO CEILING GRID OR STRUCTURE.

7. REFERENCE TO SPECIFIC MANUFACTURERS ARE USED IN TO ESTABLISH MINIMUM PERFORMANCE REQUIREMENTS AND QUALITY. OTHER MANUFACTURER'S WITH EQUAL OR BETTER QUALITY EQUIPMENT ARE ALLOWED TO SUBSTITUTE THEIR PRODUCTS. EQUAL MANUFACTURER'S WILL BE CONSIDERED AT DISCRETION OF ENGINEER.

8. ALL TAKE-OFFS SHALL INCLUDE MANUAL DAMPERS. BALANCE TO DESIGN FLOWRATES BY MECHANICAL CONTRACTOR.

9. DUCTS PENETRATING WALLS OR PARTITIONS HAVING A FIRE RESISTANCE RATING OF 1 BUT LESS THAN 3 HOURS SHALL INCLUDE FIRE DAMPERS AT THE PENETRATION. DAMPERS SHALL HAVE A FIRE RESISTANCE RATING NO LESS THAN 1.5 HR. USE OF STATIC RATED DAMPERS IS ACCEPTABLE SINCE SYSTEM IS DESIGNED FOR AUTOMATIC SHUTDOWN IN CASE OF FIRE/SMOKE.

10.ALL EXTERIOR DUCTWORK TO BE INSULATED (MINIMUM R-6 INSULATION RATING) AND COVERED BY A WEATHER PROOF, WATER PROOF EXTERIOR GALVANIZED STEEL COVERING, MINIMUM THICKNESS TO BE 20 GAUGE. COVER SHALL BE PAINTED, COLOR TO BE SELECTED

11. MECHANICAL CONTRACTOR TO VERIFY EXACT LOCATION OF T'STATS WITH OWNER.

12.ROUTE CONDENSATE DRAINS AS SHOWN ON DRAWINGS.

13. ALL DUCTWORK IN EXPOSED AREAS TO BE SINGLE WALL SPIRAL.

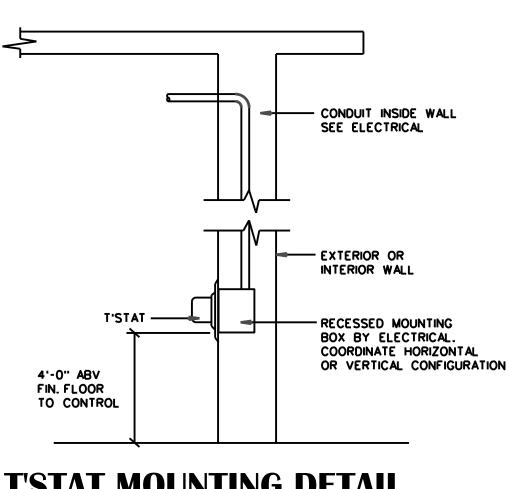
14. CONTRACTOR TO APPLY PAINT GRIP FINISH TO ALL EXPOSED DUCTWORK THAT WILL READILY ACCEPT A FIELD PAINTED FINISH. THIS INCLUDES ALL HANGARS, DRIVES, AND ACCESSORIES. COORDINATE WITH OWNER.

SCIENCES

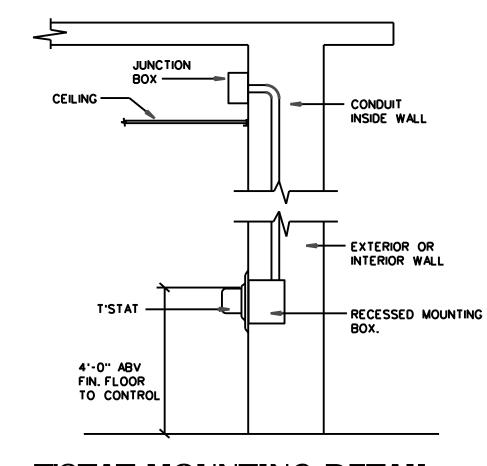
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DUCT LINER & STRAP HANGER DETAIL

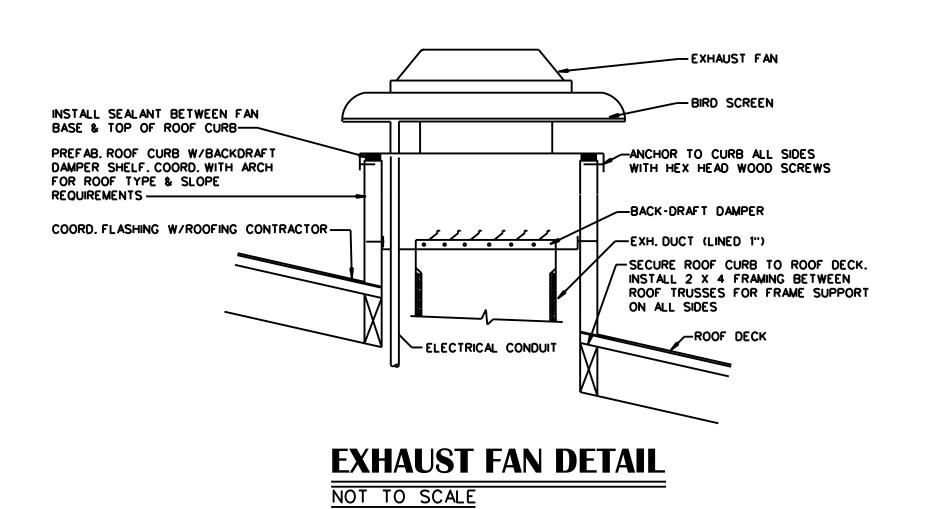
NOT TO SCALE

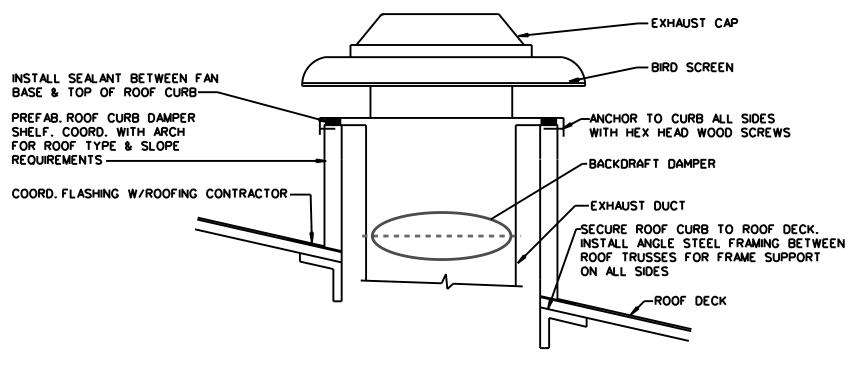


T'STAT MOUNTING DETAIL NOT TO SCALE

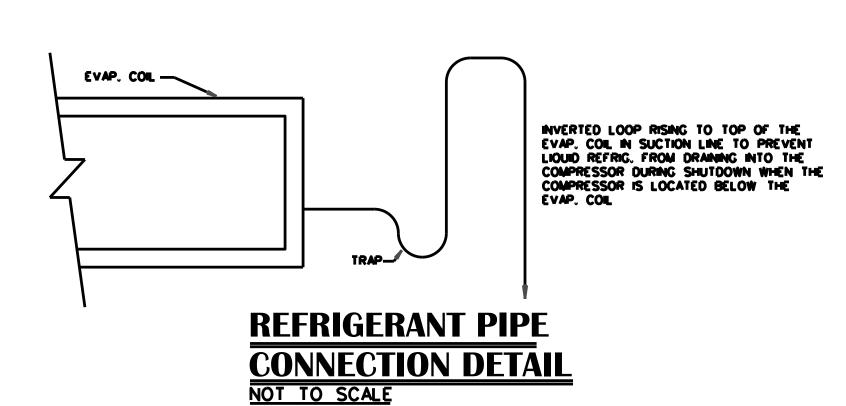


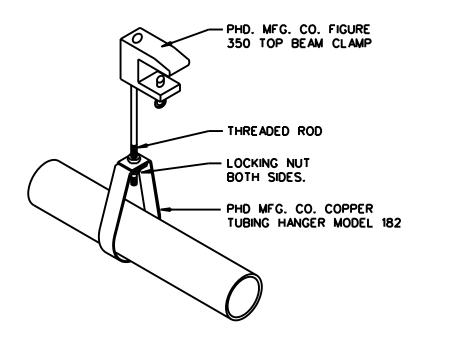
T'STAT MOUNTING DETAIL NOT TO SCALE





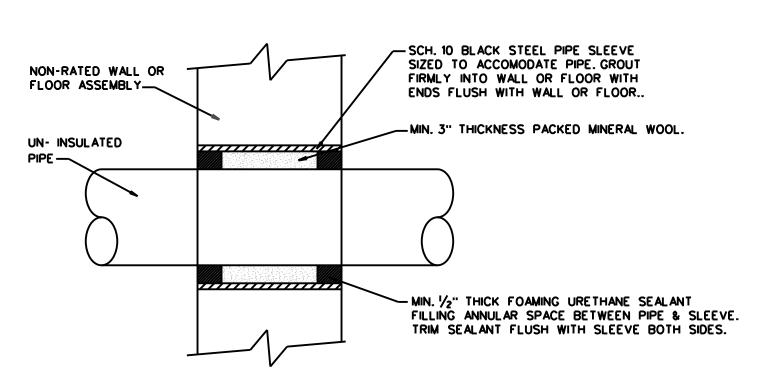
EXHAUST CAP DETAIL NOT TO SCALE





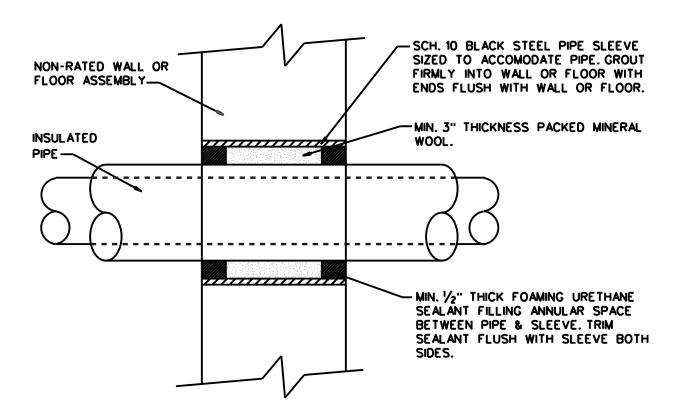
REFRIGERANT PIPE HANGER DETAIL

NOT TO SCALE



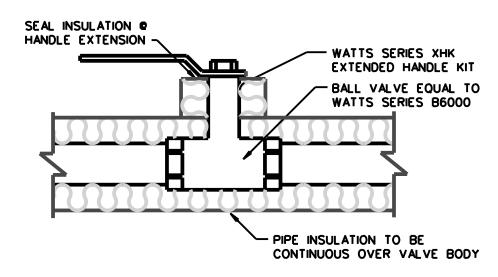
NON-RATED PIPE SLEEVE DETAIL NOT TO SCALE



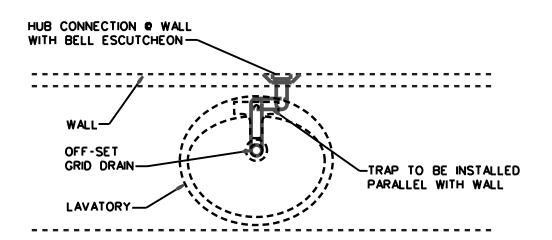


NON-RATED PIPE SLEEVE DETAIL

NOT TO SCALE

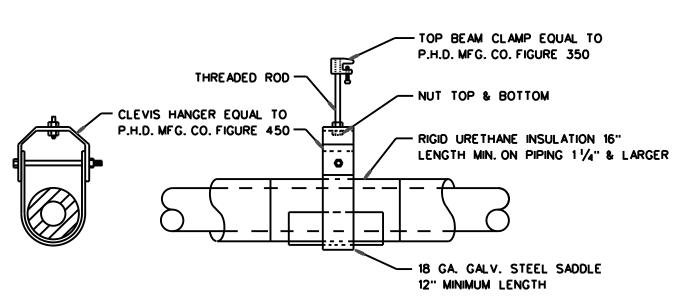


SERVICE VALVE INSTALLATION DETAIL NOT TO SCALE

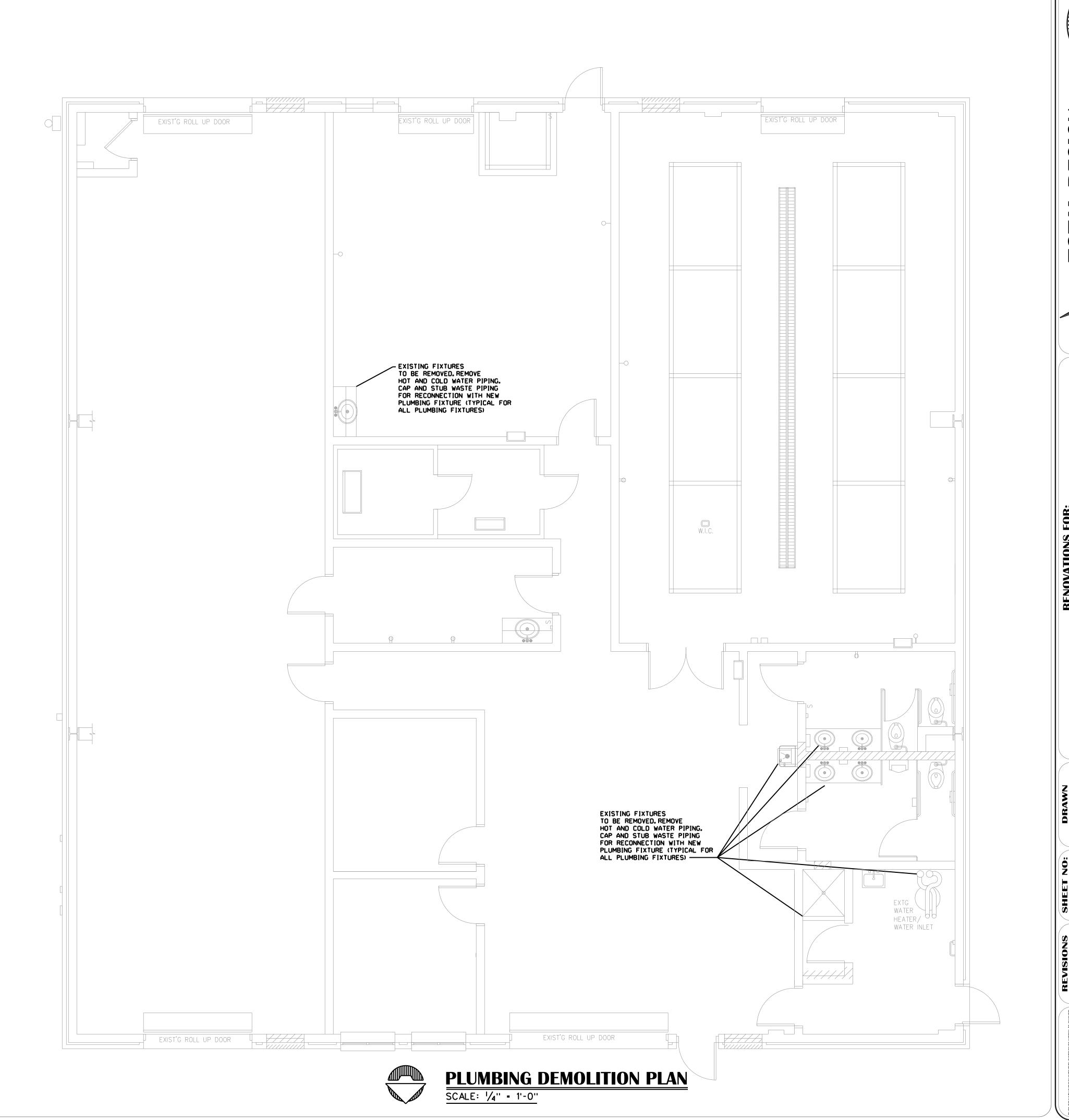


WASTE CONNECTION DETAIL
NOT TO SCALE

PIPE SUPPORT SCHEDULE							
PIPE SIZE	HANGER SPACING						
1/2"	6'						
3 /4"	6'						
1 "	8'						
1 1/4"	8'						
1 1/2"	8'						
2"	10'						
21/2"	10'						
3"	12'						
4"	12'						
6"	12'						
8"	12'						



HOT & COLD WATER PIPE HANGER DETAIL NOT TO SCALE



UMBING

IXTURE		ı	PIPE SIZI		
UMBER	DESCRIPTION	WASTE	C.W.	H.W.	
P-1	WATER CLOSET (ADA): KOHLER NO. K-4405, 171/8" HIGH, WHITE, FLOOR MOUNTED ELONGATED SIPHON JET, SOLID PLASTIC OPEN FRONT SEAT WITH STAINLESS STEEL SELF-SUSTAINING CHECK HINGE, CHINA BOLT CAPS AND SLOAN REGAL FLUSH VALVE NO. 111-XL-YK. MOUNT THE FLUSH VALVE 28" ABOVE THE FLOOR WITH THE HANDLE ON THE WIDE SIDE OF THE STALL OR ROOM.	4"	1"	-	
P-2	URINAL (ADA): KOHLER NO. K-5016-ET-0, WHITE VITREOUS CHINA WALL HUNG URINAL, WITH INCLUDED KOHLER HANGER(S) AND SLOAN REGAL FLUSH VALVE NO. 186-XL. RIM OF URINAL TO BE 17" ABOVE FLOOR.	2"	¾ 4"	-	
P-3	LAVATORY (ADA): KOHLER NO. K-2196-1-0, WHITE VITREOUS CHINA, COUNTER MOUNT, 20" X 18", WITH KOHLER NO. K-97283-4-CP SINGLE LEVER MIXING FAUCET WITH OFFSET GRID DRAIN, 17 GAUGE STAINLESS STEEL TRAP, MCGUIRE 2165LK SUPPLIES WITH STOPS. INSULATE THE WATER AND WASTE PIPES BELOW THE LAVATORY WITH TRUEBRO LAV GUARD SERIES MOLDED VINYL COVERING, WHITE FINISH WITH SNAP CLIP REUSABLE FASTENERS.	2"	1/2"	1/2"	
P-4	LAVATORY (ADA): KOHLER NO. K-2084-0, WHITE VITREOUS CHINA, WALL HUNG, 20" X 18", "B" MODIFICATION ANCHOR LUGS, WITH INCLUDED KOHLER CARRIER, KOHLER NO. K-97283-4-CP SINGLE LEVER MIXING FAUCET WITH GRID DRAIN, 17 GAUGE STAINLESS STEEL TRAP, MCGUIRE 2165LK SUPPLIES WITH STOPS. INSULATE THE WATER AND WASTE PIPES BELOW THE LAVATORY WITH TRUEBRO LAV GUARD SERIES MOLDED VINYL COVERING, WHITE FINISH WITH SNAP CLIP REUSABLE FASTENERS.	2"	1/2"	1/2"	
P-5	SHOWER (ADA): TILE SHOWER PROVIDED BY OWNER, WITH CLARION MODEL 29" PHENOLIC FOLDING SEAT, GRAB BARS, DELTA MODEL 1704-C PRESSURE BALANCE VALVE WITH SCALD-GUARD, TEMPERATURE & VOLUME CONTROL, DELTA MODEL 144840-I HAND HELD SHOWER SPRAY PACKAGE, 2" POLISHED BRASS STRAINER & 1" TYPE 304 STAINLESS STEEL CURTAIN ROD. SHOWER CURTAIN TO BE COMMERCIAL GRADE VINYL. HAND OF SHOWER TO BE VERIFIED PRIOR TO ORDERING. FINISH SHALL BE AS SELECTED BY THE ARCHITECT.	2"	½"	1/2"	
P-6	WATER HEATER: RHEEM MODEL NO. ELDS52, 50 GALLON WITH 2-3000 WATT ELEMENTS, 208/1/60, FOAM INSULATED, GLASS LINED, OPERATING AND SAFETY CONTROLS, VACUUM BREAKER AND ASME T&P RELIEF VALVE. INSTALL ON MOUNTING FRAME AS INDICATED ON THE DRAWINGS. INSTALL EXPANSION TANK, HYDRAPRO MODEL HPTET2.	-	1"	1"	
P-7	SINK (CLASSROOM): ELKAY MODEL PSDKRC, 25" X 17" OVERALL WITH 16" X 13 1/2" X 71/4" DEEP BOWL, 20 GAUGE TYPE 302 STAINLESS STEEL. SELF RIMMING, COUNTER MOUNTED. SINGLE HOLE DRILL BOTH SIDES. MODEL LKC-2085-L SINGLE LEVER COLD WATER FAUCET. MODEL LK-1141 FLEXI GUARD BUBBLER, MODEL LKJ-35 STRAINER, 17 GAUGE TRAP, MCGUIRE 2165LK SUPPLIES AND STOPS.	2"	1/2"	1/2"	
P-8	HANDWASH LAVATORY: ELKAY MODEL CHS-1716-C, STAINLESS STEEL, WALL HUNG 16¾" X 15½", WITH NO.LK-499 GOOSENECK MIXING FAUCET, NO.LK-8 STRAINER, 17 SAUGE TRAP & MCGUIRE 2165 UK SURPLIES WITH STOPS.	2"	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
-9	ELECTRIC WATER COOLER (ADA): ELKAY MODEL EZSTL8WSLK, WALL MOUNTED DUAL UNIT, WITH BOTTLE FILLER 120 VOLTS, 8 GALLON/HR COLD WATER, JOSAM NO.17905 BUAL LEVEL DUAL PLATE CARRIER, 17 GAUGE STAINLESS STEEL TRAP AND MCGUIRE NO.2166LK SUPPLY WITH STOP. SUBMIT FINISH SHALL BE SELECTED BT THE ARCHITECT. ANCHOR THE UNIT TO THE WALL TOP AND BOTTOM.	2"	1/2"	-	
P-10	HOSE BIBB CHICAGO FAUCET NO. 293-627, TEE HANDLE, HOSE OUTLET WITH VACUUM BREAKER, CHROMED FINISH.	\\	→ ¾	·	
P-11	HOSE BIBB: CHICAGO FAUCET NO. 293-E27, TEE HANDLE, HOSE OUTLET WITH VACUUM BREAKER, CHROMED FINISH.	-	-	¾"	
P-12	EMERGENCY EYE WASH/SHOWER: ACORN MODEL S1330 COMBINATION EYEWASH STATION DRENCH SHOWER. INLINE STRAINER AND STAY OPEN 1" BALL VALVE AT SHOWER AND ½" STAY OPEN BALL VALVE AT EYEWASH. 1½" SIDE OR TOP INLET. SPEC SHOWER WITH -ET71-2-BVS-OTG THERMOSTATIC MIXING VALVE SET TO 105° F. 1½" DRAIN. ENSURE PLASTIC EYE WASH CAPS WITH INTEGRAL DUST COVERS ARE ORDERED, AND INSTALL PER MANUFACTURER'S SPECIFICATIONS.	2"	-	11/4"	
P-13	WASHING MACHINE SUPPLY AND DRAIN: GUY GRAY MODEL BED-200, 16 GAUGE RECESSED STEEL WALL BOX, EPOXY FINISH, WITH 2" DRAIN, HOT AND COLD WATER HOSE CONNECTIONS, GROUNDED DUPLEX 120 VOLT RECEPTACLE AND 240 VOLT DRYER OUTLET. WALL BOX TO BE MOUNTED AT ELEVATION AS DETAILED ON THE DRAWINGS.	3"	1/2"	1/2"	
P-14	FLOOR DRAIN: SMITH NO. 2005Y02-A05NB-P050, 2" DRAIN WITH 5" DIAMETER SATIN BRONZE STRAINER, WITH TRAP GAURD.	2"	-	-	

PLUMBING NOTES

1. NEW 1" WATER METER TO BE SIZED FOR 51 GPM.
COORDINATE INSTALLATION OF THE WATER METER WITH THE LOCAL UTILITIES.
COODINATE INSTALLATION OF PRV & BACKFLOW PREVENTER IF REQUIRED WITH
THE LOCAL UTILITIES. SEE CIVIL DRAWINGS FOR EXACT LOCATION.

2. ALL PLUMBING VENTS TO BE INSTALLED WITH A MINIMUM OF 10'-0" CLEARANCE FROM ALL OUTSIDE AIR INTAKE SYSTEMS ON THE MECHANICAL EQUIPMENT.

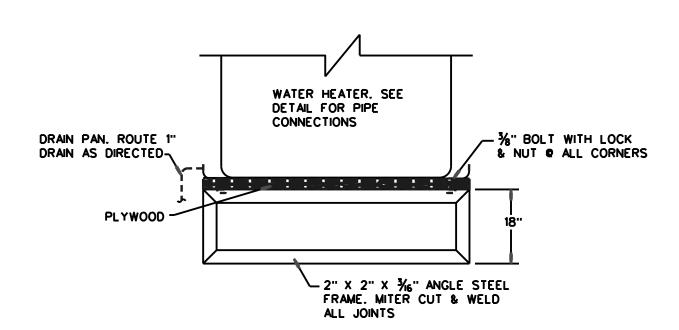
3. ALL WATER PIPES AT EXTERIOR WALLS SHALL BE INSTALLED ON THE BUILDING SIDE OF THE INSULATION. FURTHER: ALL WATER PIPES SHALL BE INSULATED WITH 1" THICK FIBERGLASS INSULATION WITH VAPOR BARRIER

4. UNDERGROUND WATER MAIN TO BE SCHEDULE 40 PVC PIPE WITH GLUED JOINTS. INSTALL THE PIPING WITH DETECTOR TAPE PER DETAILS ON THE DRAWINGS.

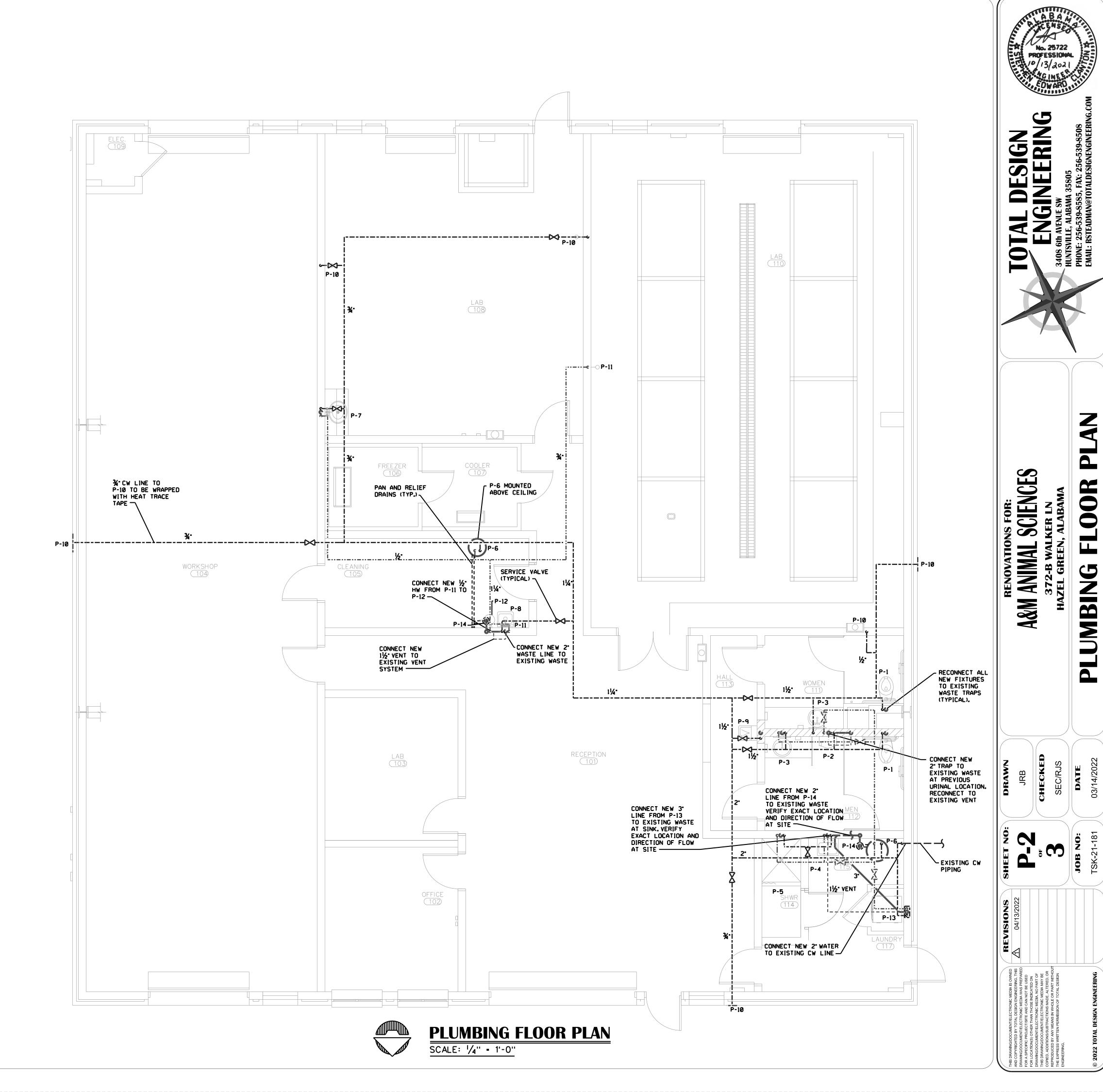
5. ADD TO THE DOMESTIC WATER MAIN 50 PPM (PARTS PER MILLION) AVAILABLE CHLORINE. ALLOW THE SOLUTION TO STAND FOR SIX HOURS, THEN FLUSH THOROUGHLY. THE PROCEDURE WILL BE OBSERVED BY THE LOCAL PLUMBING OFFICIAL. COORDINATE SAMPLING OF THE CLEAN WATER WITH THE LOCAL HEALTH DEPARTMENT.

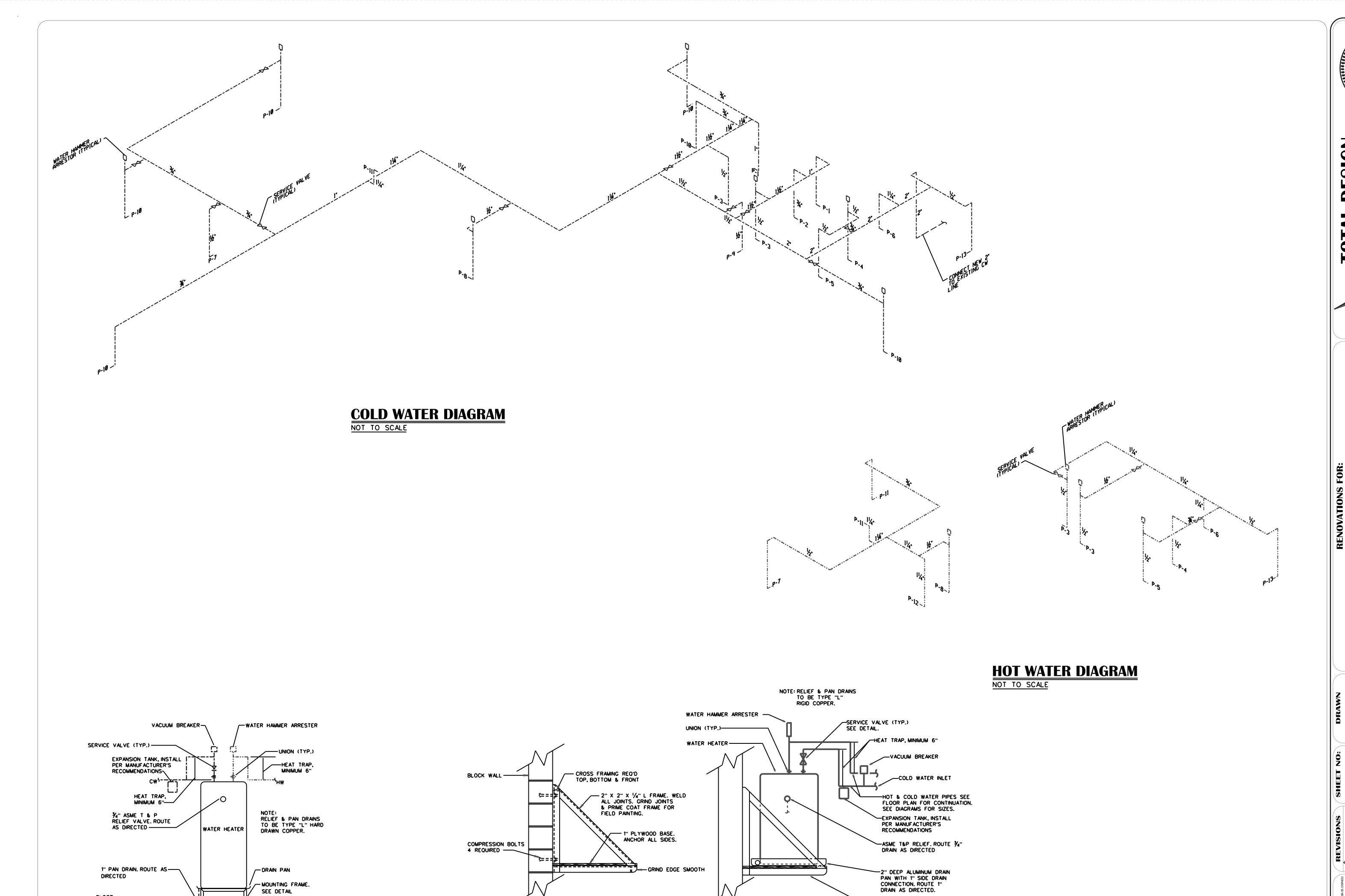
6. EQUAL FIXTURES CAN BE SUBMITTED IN PLACE OF SPECIFIED FIXTURES.

- 7. PEX PLUMBING PIPE CAN BE INSTALLED IN PLACE OF COPPER PIPING.
- 8. ROUTE WATER HEATER PAN & RELIEF DRAINS TO CLOSEST FLOOR DRAIN.
- 9. FIRST 8'-0" OF COLD WATER INLET AND HOT WATER OUTLET PIPING FROM WATER HEATER TO BE INSULATED.



WATER HEATER SUPPORT DETAIL
NOT TO SCALE





WATER HEATER MTG.

FRAME DETAIL

NOT TO SCALE

SUPPORT FRAME. SEE DETAIL
MOUNT @ ELEVATION AS DIRECTED.

WATER HEATER PIPING DETAIL

NOT TO SCALE

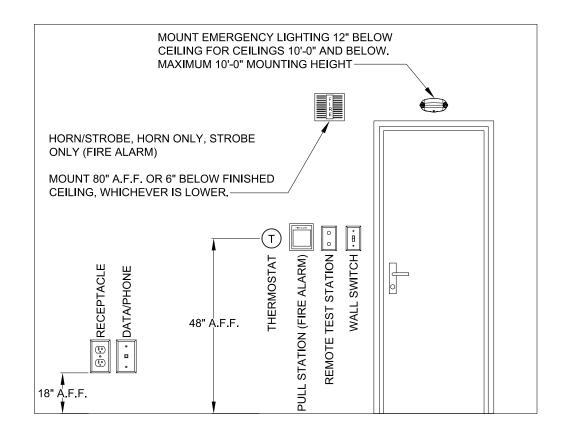
- MOUNTING FRAME. SEE DETAIL

WATER HEATER DETAIL
NOT TO SCALE

ELECTRICAL NOTES

- I. ALL NECESSARY NEW ELECTRICAL EQUIPMENT REQUIRED FOR THE WORK PROPOSED SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE AS BEING PROVIDED BY OWNER.
- 2. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND CERTIFICATES OF INSPECTION FOR ALL WORK.
- 4. WIRING WHICH PENETRATES FIRE RESISTANT WALLS SHALL BE ENCLOSED IN ELECTRICAL METALLIC TUBING (EMT), UNLESS UL LISTED FOR USE IN THROUGH PENETRATION SYSTEMS. EMT SHALL BE FIRE STOPPED USING APPROVED SEALANTS, CAULKING MATERIALS OR FOAM TO MAINTAIN FIRE RESISTANCE RATING. SEAL ALL ROOF PENETRATIONS WEATHER TIGHT PER LOCAL CODE. REQUEST INSPECTION BEFORE AND AFTER ANY THROUGH FIRE WALL PENETRATIONS.
- 5. METAL CLAD TYPE MC WIRING (WITH GALV. OR ALUMINUM ARMOR) MAY BE USED ABOVE CEILING AREAS PER N.E.C. ARTICLE 330. NON METALLIC SHEATHED TYPE NM WIRING MAY BE USED IN INTERIOR WALLS, OR CONCEALED NORMALLY DRY LOCATIONS PER N.E.C. ARTICLE 334.
- 5. LOCATION OF ELECTRICAL EQUIPMENT IS DIAGRAMMATIC AND SHOWS THE DESIGN INTENT ONLY. CONTRACTOR SHALL COORDINATE WITH PLANS OF ALL OTHER DISCIPLINES AND THEIR INSTALLERS FOR THE EXACT LOCATION OF ALL EQUIPMENT. PULL BOXES OR J-BOXES, THOUGH NOT SHOWN ON PLANS, SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
- 7. ALL ITEMS INCIDENTAL AND OR REQUIRED TO COMPLETE THE INSTALLATION SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- 8. ALL ELECTRICAL EQUIPMENT, INCLUDING CONDUIT AND WIRING SHALL BE NEW AND UNUSED UNLESS NOTED OTHERWISE.
- 9. RECESSED FIXTURES SHALL MAINTAIN A 3" MINIMUM CLEARANCE TO ADJACENT COMBUSTIBLE MATERIALS UNLESS LABELED AS 'IC RATED'.
- 10. ALL CIRCUIT RUNS SHALL BE IDENTIFIED WITHIN EACH J-BOX WITH THE PROPER CIRCUIT NUMBER/DESCRIPTION OF EACH CIRCUIT ENTERING THE J-BOX. LABEL J-BOXES AND CONDUITS WITH PANDUIT CORP. INSTA-CODE PIPE MARKERS OR AN ENGINEER APPROVED EQUIVALENT.
- 11. PROVIDE CIRCUIT I.D. ON THE INSIDE OF ALL RECEPTACLES, CONSISTENT WITH EXISTING METHODS.
- 12. FITTINGS TO BE SET SCREW STEEL TYPE UTILIZING AN INSULATED THROAT.
- 13. THE CONTRACTOR SHALL RECORD ON AS-BUILT DRAWINGS ALL SIZES, MATERIAL, ELEVATIONS AND/OR LOCATIONS OF ALL ELECTRICAL EQUIPMENT THAT DEVIATE FROM THESE DRAWINGS.
- 14. REPAIR AREAS DAMAGED DURING CONSTRUCTION TO MATCH ADJACENT AREAS WITH RESPECT TO BOTH COLOR AND FINISH.
- 15. IDENTIFY BRANCH CIRCUITS AT THE PANEL AND AT THE LOAD OUTLET, RECEPTACLE AND SWITCH. IDENTIFY THE PURPOSE OF INDIVIDUAL CIRCUIT BREAKERS, AND SAFETY SWITCHES MY MEANS OF NAMEPLATES.
- 16. MAINTAIN SERVICE CLEARANCE AROUND PANELBOARDS PER N.E.C. ARTICLES 110.26 AND 110.34.
- 17. PROVIDE CIRCUIT BREAKERS WITH UL LISTED INTERRUPTING RATINGS (RMS SYMMETRICAL AMPERES) GREATER THAN THE AVAILABLE FAULT CURRENT SHOWN ON ELECTRICAL ONE LINE DIAGRAM OR EQUAL RATING AS ELECTRICAL PANEL.
- 18. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ELECTRICAL POWER CONNECTIONS TO ALL OWNER FURNISHED FIXTURES.
- 19. PROVIDE AND CONNECT ALL CONTROL WIRING REQUIRED FOR THE PROPER OPERATION OF THE MECHANICAL SYSTEMS, EXCEPT WHERE SPECIFICALLY SHOWN OTHERWISE ON THE DRAWINGS OR SPECIFIED. REFER TO MECHANICAL DRAWING CONTROL DIAGRAMS AND MECHANICAL EQUIP. SHOP DRAWINGS.
- 20. PROVIDE ALL TEMPORARY POWER AND LIGHTING DURING CONSTRUCTION.
- 21. AT THE TIME OF SHOP DRAWINGS SUBMITTAL CLEARLY MARK ALL DISCREPANCIES BETWEEN SHOP DRAWINGS AND BID DOCUMENTS.

\$	TOGGLE SWITCH, SINGLE POLE, 125/277 VOLT 20 AMP.
\$3	TOGGLE SWITCH, THREE WAY, 125/277 VOLT 20 AMP.
\$ _D	DIMMER, COORDINATE WITH FIXTURE, TYPE OF LAMP AND CIRCUIT WATTAGE.
Ħ	DUPLEX OUTLET, NEMA 5-15R, 125 VOLT. HUBBELL #HBL5262 OR EQUAL.
	DUPLEX OUTLET, MOUNTED ABOVE COUNTERTOP. HUBBELL #HBL5262 OR EQUAL.
Н	DUPLEX OUTLET, GFCI TYPE, NEMA 5-15R, 125V,15AMP. HUBBELL #GF5262A OR EQUAL.
	DUPLEX OUTLET, GFCI TYPE, MOUNTED ABOVE COUNTERTOP. HUBBELL #GF5262A OR EQUAL
⊭	SINGLE OUTLET, 240 VOLT, 30 AMP. NEMA 6-30R. HUBBELL #HBL9330 OR EQUAL.
₩	QUADRAPLEX OUTLET, NEMA 5-15R, 125V, 15 AMP. HUBBELL #HBL5262 OR EQUAL.
⊨⊘	DUPLEX OUTLET WITH USB-A & USB-C, NEMA 5-15R, 125 VOLT. HUBBELL #USB15AC5BK OR EQUAL.
\bowtie	PHONE/DATA OUTLET, WALL MOUNTED, 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE
	PHONE/DATA OUTLET, WALL MOUNTED ACT, 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE
•	SINGLE GANG FLOOR BOX WITH DUPLEX OUTLET, 120V, 15 AMP, NEMA 5-15R. HUBBELL #B2436 FLOORBOX WITH HUBBELL #HBL5262 RECEPTACLE AND S3825 COVER.
• 🛦	TWO GANG FLOOR BOX WITH DUPLEX OUTLET, 120V, 15 AMP, NEMA 5-15R AND TELEPHONE/DATA OUTLET. HUBB #B423341 FLOORBOX WITH HUBBELL #HBL5262 RECEPTACLE AND ONE S3825 COVER & ONE S2425 COVER
\boxminus_{WP}	WEATHERPROOF DUPLEX OUTLET, GFCI TYPE, NEMA 5-15R, 125V,15AMP. HUBBELL #GF5262A OR EQUAL.
\bigcirc	MOTOR
\$ _T	TOGGLE DISCONNECT, HORSEPOWER RATED
	NON-FUSED DISCONNECT, AMP OR HP RATED, SEE FLOOR PLAN.
	ELECTRICAL PANEL (SEE SCHEDULE)
PC	PHOTOCELL, TORK 2101 OR EQUAL



TYPICAL DEVICE MOUNTING ELEVATIONS DETAIL

NOT TO SCALE

ARCHITECT.

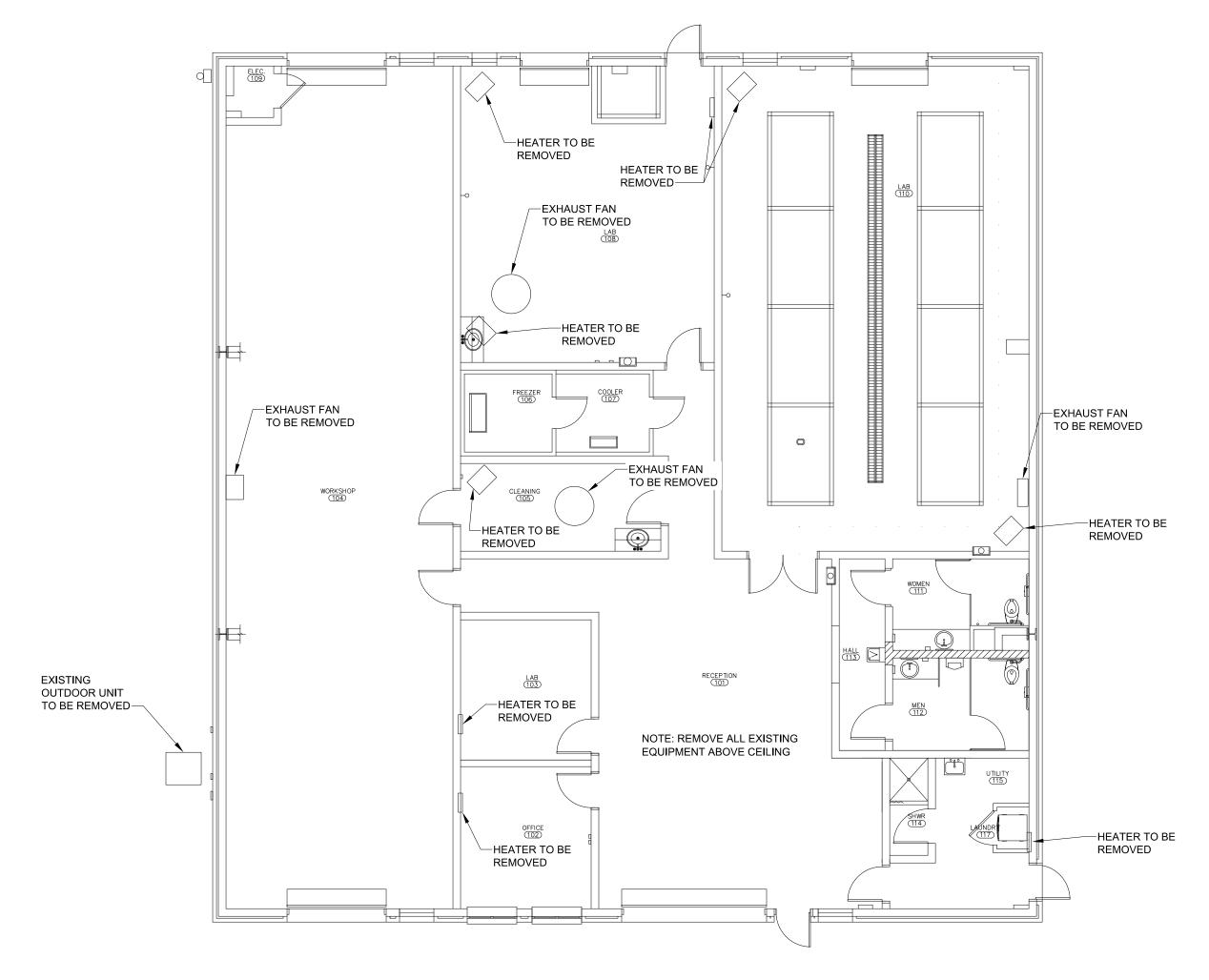
CONDUIT & CONDUCTORS	
——————————————————————————————————————	NOTES: 1. SHORT HASH MARKS INDICATE NUMBER OF HOT & SWITCH LEG
CONDUIT, CONCEALED IN WALL OR CEILING	CONDUCTORS. 2. LONG HASH MARKS INDICATE NUMBER OF NEUTRAL CONDUCTORS.
CONDUIT, INSTALLED BELOW SLABS OR BELOW GRADE	3. SIZE CONDUIT PER N.E.C. LATEST EDITION UNLESS NOTED OTHERWISE.
HOMERUN TO PANEL, 2 #12 1/2"C AS SHOWN	PROVIDE N.E.C. LATEST EDITION GROUND CONDUCTOR SIZE IN ALL CONDUIT RUNS.
HOMERUN TO PANEL, 3 #10 3/4"C AS SHOWN B-3,5 INDICATES NO. AND SIZE OF CONDUCTORS INDICATES HOMERUN TO PANEL INDICATES PANEL AND CIRCUIT NO. (PANEL LP-B CKT 3 AND 5)	 CONDUIT USED FOR AREAS ON BUILDING EXTERIOR SHALL BE RIGID GALVANIZED STEEL CONDUIT ONLY. UNDERGROUND SHALL BE PVC SCH. 40 OR SCH. 80 UNLESS OTHERWISE NOTED ON DRAWING. ALL WIRE SHALL BE SOLID COPPER, #12 AWG MINIMUM TYPE THHN/THWN INSULATION RATED 75°C MIN, 600 VOLTS UNLESS OTHERWISE NOTED. WIRE SIZES LARGER THAN #12 AWG TO BE STRANDED COPPER. ALL CIRCUITS TO INCLUDE GROUND WIRES. PROVIDE A PULL STRING IN ALL EMPTY DATA OUTLET CONDUITS OF NYLON, BRAIDED POLYESTER OR PROPYLENE (100# TEST), INSTALLED WITH 12" SLACK AT EACH END OF THE CONDUIT RUN. INSTALL AN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN EACH RACEWAY OR CONDUIT. SIZE EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH N.E.C. TABLE 250.66. CONDUITS SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO WALLS AND/OR CEILING WHEREVER POSSIBLE. ROUTE NO CONDUITS DIRECTLY BENEATH AND PARALLEL TO MECHANICAL PIPING.

ABI	BREVIATIONS		
1PH	SINGLE PHASE	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
3PH	THREE PHASE	G	GROUND
3W	THREE WIRE	JBOX	JUNCTION BOX
4W	FOUR WIRES	KV	KILOVOLT
A.F.F.	ABOVE FINISHED FLOOR	KVA	KILOVOLT AMPERE
AIC	AMPERE INTERRUPTING CAPACITY	M.B.	MAIN BREAKER
AMP	AMPERE	M.L.O.	MAIN LUG ONLY
BKR	CIRCUIT BREAKER	REC	RECEPTACLE
С	CONDUIT	WP	WEATHERPROOF
CU	COPPER	XFMR	TRANSFORMER
DISC	DISCONNECT SWITCH		
FC	FOOT CANDLE		
GA	GAGE		

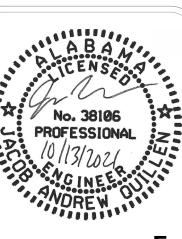
DEMOLITION NOTES:

- 1. ALL EXISTING RECEPTACLES TO REMAIN. CONTRACTOR TO INSPECT EACH RECEPTACLE CLEAN & REPLACE AS REQUIRED.
- 2. CONTRACTOR TO ENSURE ANY RECEPTACLE IN POTENTIAL WET AREAS TO BE REPLACED WITH GFCI RECEPTACLE, OR GFCI BREAKER IN EXISTING PANEL(S).
- EXISTING POWER PANELS TO BE CLEANED, NEW PANEL SCHEDULE REQUIRED.
 VERIFY EXISTING CIRCUIT PRIOR TO REMOVAL, RE-CIRCUIT AS INDICATED ON SHEET E-3. IF EXISTING CIRCUIT TO BE DEMOED
- AND NOT REPLACED, MARK AS SPARE.

 5. ALL LIGHTING TO BE REMOVED, AND REPLACED AS SHOWN ON SHEET E-2.
- REMOVE EXISTING CONDUCTORS, CONDUIT AND ALL ACCESSORIES RELATED TO MECHANICAL ITEMS BEING REMOVED, PER PLAN ON THIS SHEET. COORDINATE WITH MECHANICAL CONTRACTOR IN FIELD.







ENGINEE

RAGINEE

3408 6th AVENUE SW
HUNTSVILLE, ALABAMA 35805
PHONE: 256-539-8585, FAX: 256-

IN ANIMAL SUIENUE 372 WALKER LN HAZEL GREEN, ALABAMA

JAQ

SYMBOLS,

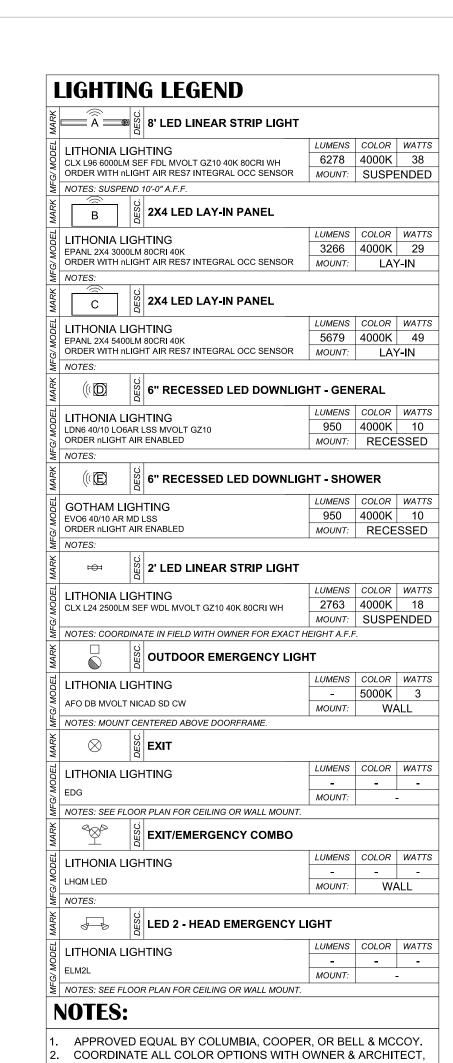
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GINEERING. THIS
A WAS PREPARED
NOT BE USED
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NO PART OF
MEDIA MAY BE
E. ALTERED, OR
SR PART WITHOUT
TOTAL DESIGN

PECIFIC PROJECT/SITE AND CAN NOT BE USED SATION(S) OTHER THAN THOSE INDICATED ON GIDOCUMENT/ELECTRONIC MEDIA. NO PART OF AWING/DOCUMENT/ELECTRONIC MEDIA MAY BE.

ADDITIONS/SUBTRACTIONS MADE, ALTERED, OR DUCED BY ANY MEANS IN WHOLE OR PART WITHO PRESS WRITTEN PERMISSION OF TOTAL DESIGN ERING.



PRIOR TO ORDERING.

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PRIOR TO INSTALLATION.

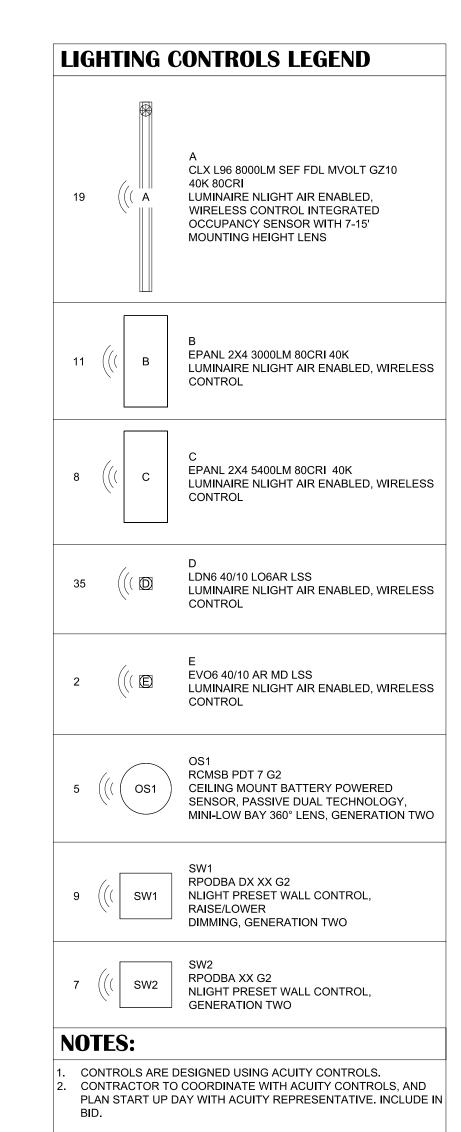
AS REQUIRED.

VERIFY EXACT MOUNTING REQUIREMENTS IN FIELD.

COORDINATE WITH ARCHITECT & OWNER FOR EXACT ELEVATION

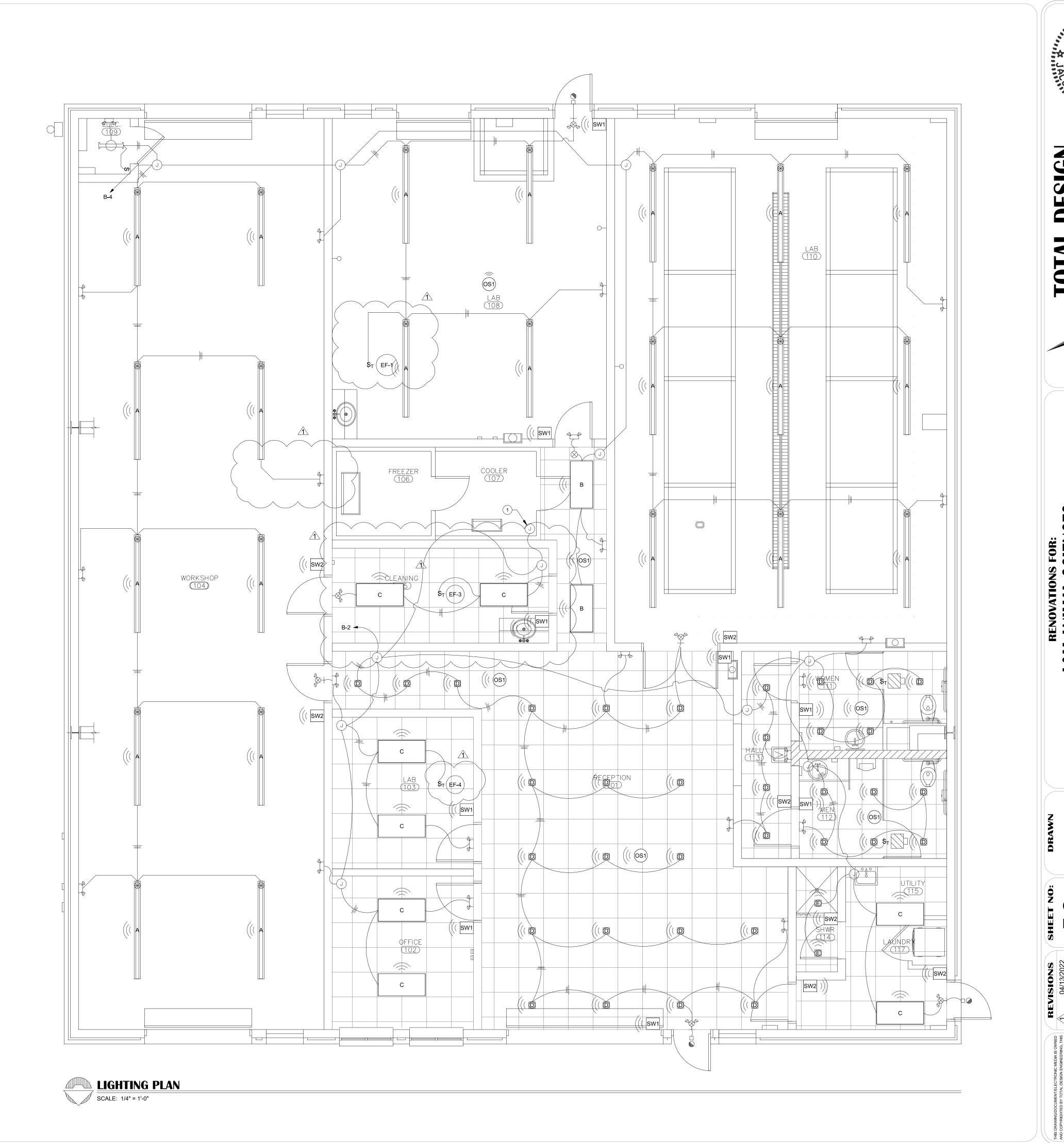
VERIFY FINAL LOCATIONS OF LIGHT FIXTURES WITH OWNER

COORDINATE LOCATION OF LIGHT FIXTURES WITH ALL TRADES



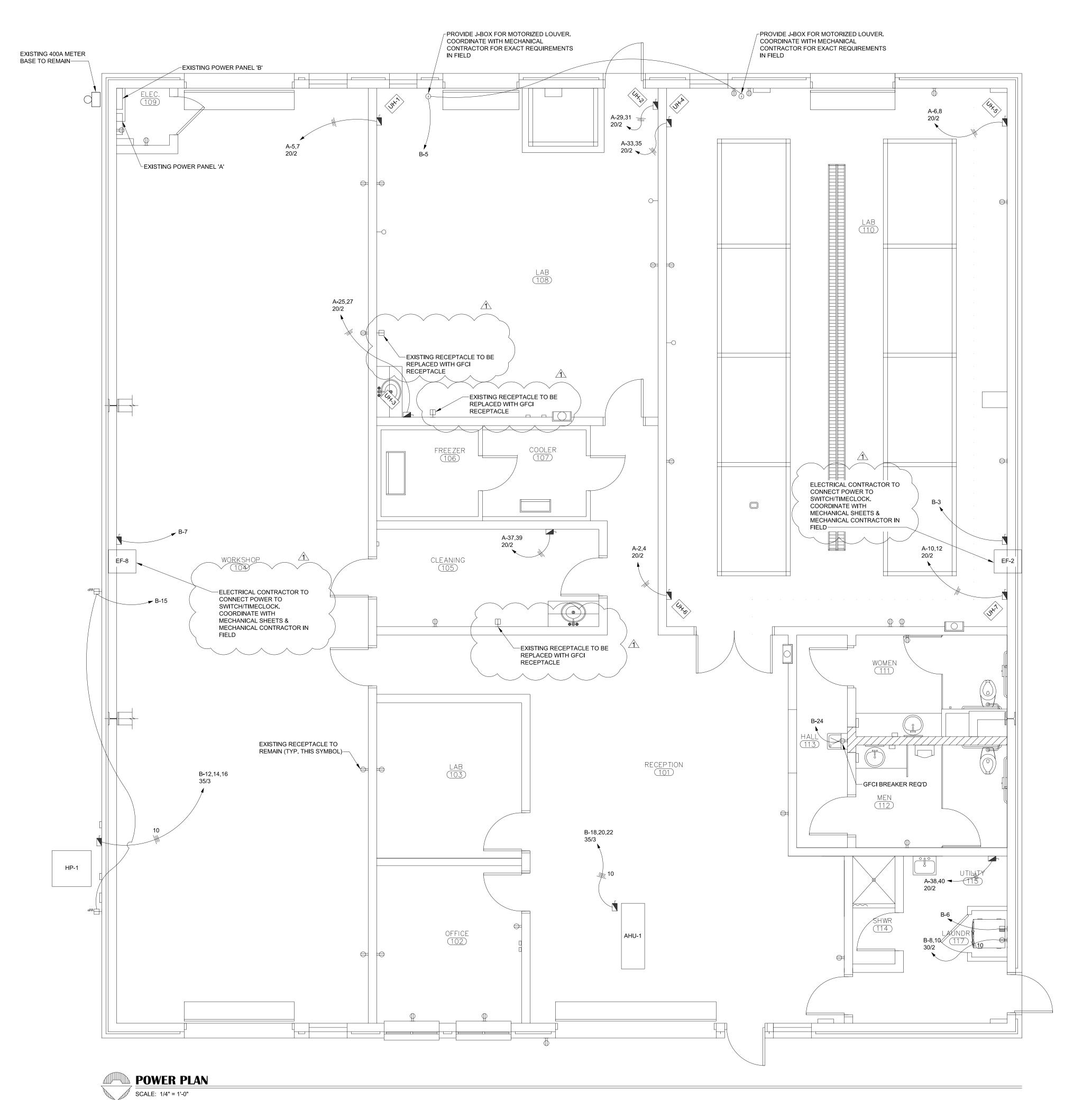
LIGHTING PLAN KEYED NOTES:

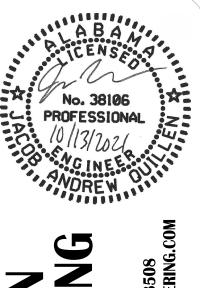
1 RECONNECT EXISTING WALK IN FREEZER & WALK IN-COOLER LIGHTING TO THIS CIRCUIT.



PANE	L NO:	Α		LOADS:			PANEL TYPE		A.I.C.		NOTES:		
MAIN .	BUS (A):	400	LIGHTING:		0.00	KVA	M.B.	Х	G E	.000			
OEDV	INO.	EVICTING	POWER:		22.00	KVA	M.L.O.		65,	,000			
SERV	NG:	EXISTING	HVAC:		20.69	KVA	VOLT	VOLTAGE		TING			
EXISTING EATON PRL1 - SURFACE		FOTAL CONN.LOAD:		42.69	KVA	208/12	20V 3Ø	NEM	IA-1R				
OKT !!	DVD		DE1		LOAD		LOAD					DVD	OKT
CKT#	BKR	L.A	BEL	LIGHTS	POWER	HVAC	LIGHTS POWER		HVAC		LABEL BK	BKR	CKT#
1	EX 20/2	EX. WATER	HEATER	-	1.50	-	-	-	1.46	UH-6		20/2	2
3	-	EX. WATER	HEATER	-	1.50	-	-	_	1.46	UH-6		_	4
5	20/2	UH-1		-	-	1.46	_	-	1.46	UH-5		20/2	6
7	-	UH-1		-	-	1.46	_	-	1.46	UH-5		-	8
9	EX 30/2	EX. 250V RE	C	-	1.00	-	-	-	1.46	UH-7		20/2	10
11	=	EX. 250V RE	C	-	1.00	-	-	-	1.46	UH-7		-	12
13	EX 30/2	EX CAGE R	MOC	-	1.00	-	-	-	-	SPARE		EX 50/2	14
15	-	EX CAGE R	MOC	-	1.00	-	-	-	-	SPARE		-	16
17	EX 30/2	EX 250V RE	С	-	1.00	-	_	0.50	-	EX FREEZER		EX 20/1	18
19	-	EX 250V RE		-	1.00	-	-	0.50	-	EX FREEZER COND		EX 15/3	20
21	EX 30/2	EX CAGE R	MOC	-	1.00	-	-	0.50	-	EX FREE	EX FREEZER COND		22
23	-	EX CAGE R	MOC	-	1.00	-	-	0.50	-	EX FREE	ZER COND	_	24
25	20/2	UH-3		-	-	1.46	-	-	-	SPARE		EX 15/1	26
27	-	UH-3		-	-	1.46	-	-	-	SPARE		EX 15/1	28
29	20/2	UH-2		-	-	1.46	-	1.00	-	EX FEED		EX 20/3	30
31	-	UH-2		-	-	1.46	-	1.00	-	EX FEED		-	32
33	20/2	UH-4		-	-	1.46	-	1.00	-	EX FEED	MIXER	-	34
35	-	UH-4		-	-	1.46	-	-	0.25	EX EF-5		EX 15/1	36
37	20/2	WATER HEA		-	1.50	-	-	1.50	=		HEATER	20/2	38
39	-	WATER HEA	ATER	-	1.50	-	-	1.50	-		HEATER	-	40
41	-	SPACE		-	-	-	-	-	-	SPARE		-	42

PANE	L NO:	В		LOAD	S <i>:</i>		PANEL TYPE		Α.	I.C.	NO.	TES:	
MAIN .	BUS (A):	400	LIGHTING:		2.31	KVA	M.B.		65000				
SERVI	INIC:	EXISTING	POWER:		20.00	KVA	M.L.O.	X	63	000			
SERVI	ING.	EXISTING	HVAC:		21.93 KVA		VOLTAGE		RATING				
EXISTING EATON PRL1 - SURFACE TOTAL CO		TOTAL CONN	I.LOAD:	44.24	KVA	208/120V 3Ø		NEMA-1R					
01/7 // 01/0		LABEL		LOAD		LOAD				LADEL	100	CKT	
CKT#	BKR	LA	ABEL	LIGHTS	POWER	HVAC	LIGHTS POWER		HVAC		LABEL BK	BKR	CKI
1	EX 15/1	SPARE		-	-	-	0.92	-	-	FRONT LI	GHTING	EX 20/1	2
3	EX 15/1	EF-2		_	-	1.18	1.39	_	-	REAR LIG	HTING	EX 20/1	4
5	EX 20/1	LOUVERS		-	0.50	-	-	1.00	-	WASHER		EX 20/1	6
7	EX 20/1	EF-8		_	-	1.18	_	2.34	-	DRYER		30/2	8
9	EX 20/1	EX AREA LIGHTS		-	0.50	-	-	2.34	-	DRYER		-	10
11	EX 30/1	EX OUTSIDE LIGHTS		_	0.50	-	_	-	1.92	HP-1		35/3	12
13	EX 20/1	EX ELEC RM REC		-	0.18	-	-	-	1.92	HP-1		-	14
15	EX 20/1	OUTDOOR REC		-	0.36	-	-	-	1.92	HP-1		-	16
17	EX 20/1	EX CAGE RM REC		-	0.54	-	-	-	3.27	AHU-1		35/3	18
19	EX 20/1	EX OUTDOOR REC		-	0.25	-	-	-	3.27	AHU-1		-	20
21	EX 20/1	EX OUTDOO	OR REC	-	0.25	-	-	-	3.27	AHU-1		-	22
23	EX 20/1	EX CAGE RI	M REC	-	0.54	-	-	1.00	-	EWC		20/2	24
25	EX 20/1	EX EWC RE	С	-	1.00	-	-	-	-	SPACE		-	26
27	EX 20/1	EX CLEAN U	JP REC	-	0.36	-	-	1.50	=	EX DRYE	R REC	EX 20/2	28
29	EX 20/1	EX OFFICE	REC	-	0.54	-	-	1.50	-	EX DRYE	R REC	-	30
31	EX 20/1	EX OFFICE	REC	-	0.50	-	-	1.00	=	EX COOL	ER COND	EX 15/2	32
33	EX 20/1	EX OFFICE	REC	-	0.50	-	-	1.00	-	EX COOL	ER COD	-	34
35	EX 20/1	EX EQ. ARE	A REC	-	0.72	-	-	-	1.00	EX E.C.H.	1	EX 15/2	36
37	EX 20/1	EX PREP RI	M REC	-	0.18	-	-	-	1.00	EX E.C.H.	1	-	38
39	EX 20/1	EX HALL RE	:C	-	0.18	-	-	-	1.00	EX E.C.H.	2	EX 15/2	40
41	EX 20/1	EX ANIMAL	CARE REC	-	0.72	-	_	-	1.00	EX E.C.H.	2	_	42





TOTAL DESIGN

ENGINE SW

HUNTSVILLE, ALABAMA 35805
PHONE: 256-539-8508
EMAIL: DOUBLE SIGNATURE BRING COM

A&M ANIMAL SCIENCES
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