

LEE'S SUMMIT ANIMAL HOSPITAL NORTH

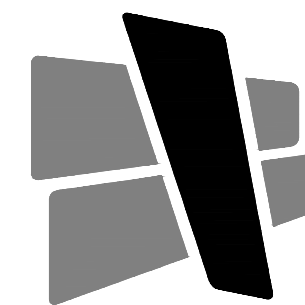
**250 NW McNARY COURT
LEE'S SUMMIT, MO
64086**

**04.23.21
PERMIT COMMENTS**

OWNER

NATIONAL VETERINARY ASSOCIATES
29229 CANWOOD STREET
AGOURA HILLS, CA 91301

ARCHITECT

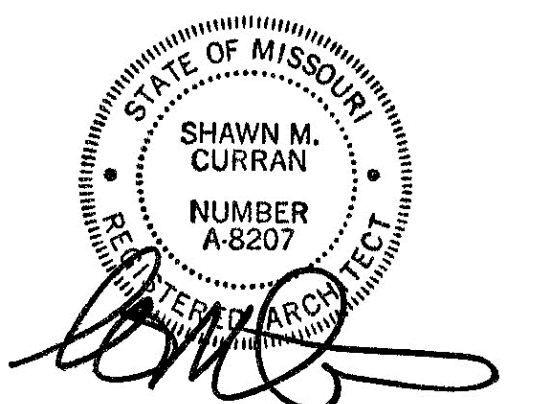


CURRAN
ARCHITECTURE

5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O : 317 . 288 . 0681
CONTACT : SHAWN CURRAN

MEP ENGINEER

TES ENGINEERING
25760 FIRST STREET
CLEVELAND, OH 44145
O : 440 . 871 . 2410
CONTACT : DAN STECKLOW



SCOPE NOTES

IN THE EVENT OF QUESTIONS REGARDING THE CONTRACT DOCUMENTS, SPECIFICATIONS, EXISTING CONDITIONS OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT PRIOR TO BID SUBMITTAL AND PROCEEDING WITH ANY WORK IN QUESTION.

THESE CONTRACT DOCUMENTS ARE INTENDED TO DESCRIBE ONLY THE SCOPE AND APPEARANCE OF THE REAL PROPERTY IMPROVEMENTS, INCLUDING THE PERFORMANCE AND LEVEL OF QUALITY EXPECTED OF ITS COMPONENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL WORK COMPLETED AND MATERIALS INSTALLED BE IN FULL COMPLIANCE AT A MINIMUM, WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES HAVING JURISDICTIONAL AUTHORITY OVER THE PROJECT.

THESE CONTRACT DOCUMENTS DO NOT ATTEMPT TO INSTRUCT THE CONTRACTOR IN THE DETAILS OF HIS TRADE. THEY ARE PERFORMANCE SPECIFICATIONS IN THAT THEY DO REQUIRE THAT ALL MANUFACTURED ITEMS, MATERIALS AND EQUIPMENT BE INSTALLED IN STRICT CONFORMANCE TO THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS, EXCEPT IN THE CASE WHERE THE CONTRACT DOCUMENTS ARE MORE STRINGENT. ANY MISCELLANEOUS ITEMS OR MATERIALS NOT SPECIFICALLY NOTED, BUT REQUIRED FOR PROPER INSTALLATION SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ALL WORK SHALL BE WARRANTED SATISFACTORY, IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR, OR FOR THE PERIOD OF WARRANTY CUSTOMARY, OR STIPULATED FOR THE TRADE, CRAFT, OR PRODUCT, WHICHEVER IS LONGER. ONLY COMPETENT MECHANICS CAPABLE OF PRODUCING GOOD WORKMANSHIP CUSTOMARY TO THE TRADE SHOULD BE USED. COMMENCING WORK BY A CONTRACTOR OR SUBCONTRACTOR CONSTITUTES ACCEPTANCE OF THE CONDITIONS AND SURFACES CONCERNED. IF ANY SUCH CONDITIONS ARE UNACCEPTABLE, THE GENERAL CONTRACTOR SHALL BE NOTIFIED IMMEDIATELY, AND NO WORK SHALL BE PERFORMED UNTIL THE CONDITIONS ARE CORRECTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH THE PROJECT SCOPE OF WORK, BUILDING STANDARDS, SCHEDULE AND DEADLINES. THE CONTRACTOR SHALL FURTHER BE RESPONSIBLE FOR ADVISING THE OWNER OF ALL LONG LEAD ITEMS AFFECTING THE PROJECT SCHEDULE AND SHALL, UPON REQUEST FROM THE OWNER, SUBMIT ORDER CONFIRMATIONS AND DELIVERY DATES FOR SUCH LONG LEAD ITEMS TO THE OWNER.

ALL CONTRACTOR OR SUPPLIER REQUESTS FOR SUBSTITUTIONS OF SPECIFIED ITEMS SHALL BE SUBMITTED, IN WRITING, ACCOMPANIED BY THE ALTERNATIVE PRODUCT INFORMATION, TO THE ARCHITECT, NO LATER THAN TEN (10) BUSINESS DAYS, PRIOR TO BID OPENING DATE. SUBSTITUTIONS SHALL ONLY BE CONSIDERED IF THEY DO NOT SACRIFICE QUALITY, FUNCTIONALITY, APPEARANCE OR WARRANTY. UNDER NO CIRCUMSTANCES WILL THE OWNER BE REQUIRED TO PROVE THAT A PRODUCT PROPOSED FOR SUBSTITUTION IS OR IS NOT OF EQUAL QUALITY TO THE PRODUCT SPECIFIED. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SCALE THE DRAWINGS TO DETERMINE DIMENSIONS. REFER TO PLANS, SECTIONS AND DETAILS FOR ALL DIMENSIONAL INFORMATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL SELECTED MATERIALS WHICH SHALL BE COMPLETE IN ALL RESPECTS PRIOR TO THE FINAL ACCEPTANCE, UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL PRESERVE ALL PRINTED INSTRUCTIONS AND WARRANTY INFORMATION THAT IS PROVIDED WITH EQUIPMENT OR MATERIALS USED, AND DELIVER SAID PRINTED MATTER TO THE OWNER AT THE TIME OF SUBSTANTIAL COMPLETION. THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE PROPER USE OF THE EQUIPMENT FURNISHED BY THEIR TRADE.

GENERAL CONTRACTOR SHALL PROVIDE A THOROUGH CONSTRUCTION CLEANING AT PROJECT CLOSE OUT, PRIOR TO PUNCH LIST WALK THROUGH.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL FABRICATED ITEMS, AND PHYSICAL SAMPLES OF ALL FINISH MATERIALS SPECIFIED TO THE ARCHITECT FOR REVIEW.

REVIEWED SHOP DRAWINGS AND SUBMITTALS BY OTHERS SHALL NOT BE CONSIDERED AS PART OF THE CONTRACT DOCUMENTS. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR DRAWINGS, SCHEDULES, AND/OR SPECIFICATIONS FOR WORK ON THE PROJECT PREPARED BY OTHERS.

THE ARCHITECT WILL REVIEW ALL SHOP DRAWINGS, SUBMITTALS AND SAMPLES FOR CONFORMITY WITH THE CONTRACT DOCUMENTS AND RETURN THEM TO THE CONTRACTOR WITHIN SEVEN (7) WORKING DAYS EXCEPT AS MAY OTHERWISE BE PROVIDED FOR BY THE OWNER.

THE CONTRACTOR SHALL NOT REPRODUCE AND MARK UP ANY PART OF THE CONTRACT DOCUMENTS FOR SUBMITTAL AS A SHOP DRAWING. ANY SUCH SUBMITTAL WILL BE REJECTED.

ANY SUBMITTAL REQUIRED TO BE REVIEWED MORE THAN THE INITIAL REVIEW AND ONE (1) ADDITIONAL REVIEW, WILL BE CONSIDERED TO BE IN EXCESS OF THE SCOPE OF THE PROJECT. THE TIME REQUIRED FOR THIRD AND SUBSEQUENT REVIEWS OF A SUBMITTAL WILL BE PAID FOR BY THE CONTRACTOR TO THE ARCHITECT AT THE ARCHITECT'S STANDARD BILLING RATES, PLUS REIMBURSABLE EXPENSES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ANY EXISTING CONDITIONS AND ALL CRITICAL DIMENSIONS ASSOCIATED WITH THE PROPOSED WORK. THE CONTRACTOR SHALL CONFIRM THAT ALL WORK OUTLINED WITHIN THE CONTRACT DOCUMENTS CAN BE ACCOMPLISHED AS SHOWN, PRIOR TO BID OPENING. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS ENCOUNTERED WHICH MAY AFFECT BUILDING CODE COMPLIANCE, LIFE SAFETY, ISSUANCE OF CERTIFICATE OF OCCUPANCY, OR COMPLETION OF THE PROJECT AS DIRECTED IN THE CONTRACT DOCUMENTS.

NO ADDITIONAL FUNDS WILL BE APPROVED FOR WORK OMITTED FROM THE CONTRACTOR'S BID DUE TO LACK OF VERIFICATION BY THE CONTRACTOR, EXCEPT AS OTHERWISE APPROVED BY THE OWNER FOR WORK ASSOCIATED WITH HIDDEN CONDITIONS WHICH ARE NOT ACCESSIBLE PRIOR TO CONSTRUCTION.

REFER TO PROJECT MANUAL (WHEN APPLICABLE) FOR ADDITIONAL REQUIREMENTS AND DIRECTIONS. ALL INTERIOR FINISHES SHALL COMPLY WITH CHAPTER EIGHT (8) OF THE 2018 INTERNATIONAL BUILDING CODE.

LIGHT GAGE METAL STUDS; STUDS, THEIR COMPONENTS AND THEIR CONNECTIONS SHALL BE ENGINEERED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE ENGINEER SHALL AFFIX THEIR SEAL AND SIGNATURE TO SHOP DRAWINGS AND CALCULATIONS SUBMITTED FOR REVIEW.

STEEL REQUIRED TO TRANSMIT GRAVITY AND/OR LATERAL LOADS TO THE STRUCTURE NOT DETAILED ON THE STRUCTURAL DRAWINGS IS THE RESPONSIBILITY OF THE METAL STUD SUPPLIER TO DESIGN, DETAIL, PROVIDE AND INSTALL.

METAL STUDS SHALL BE DESIGNED TO SUPPORT THE LOADS SHOWN IN THE DESIGN DATA IN ADDITION TO THE WEIGHT OF THE MATERIALS ATTACHED TO THE METAL STUDS. METAL STUDS SHALL BE DESIGNED USING THE LOAD COMBINATIONS IN SECTION 1605.3.1 OF THE INTERNATIONAL BUILDING CODE, 2012 EDITION, NO INCREASE IN ALLOWABLE STRESS IS ALLOWED.

DEFLECTION DUE TO LATERAL LOAD SHALL BE LIMITED TO $\frac{1}{160}$ OF THE STUD SPAN, FOR CANTILEVERS, THE DEFLECTION DUE TO LATERAL LOAD AT THE END OF THE CANTILEVER SHALL BE LIMITED TO $\frac{1}{160}$ OF THE CANTILEVER DIMENSION.

METAL STUD MANUFACTURER SHALL DETERMINE FINAL LAYOUT AND GAUGE OF STUDS TO MEET THE ARCHITECTURAL AND STRUCTURAL REQUIREMENTS.

WHERE ROUGH CARPENTRY IS IN CONTACT WITH THE GROUND, EXPOSED TO WEATHER OR IN AREAS OF HIGH RELATIVE HUMIDITY PROVIDE FASTENERS AND ANCHORAGES WITH A HOT DIP ZINC COATING OF G90 COMPLYING WITH ASTM A153 OR PROVIDE FASTENERS AND ANCHORAGES OF TYPE 304 STAINLESS STEEL.

ALL WOOD SHEATHING TO BE FIRE TREATED UNLESS NOTED OTHERWISE.

ACT	ACOUSTICAL CEILING TILE
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ANOD	ANODIZED
APP	APPROXIMATE
ARCH	ARCHITECT
AWT	ACOUSTICAL WALL TREATMENT
BLDG	BUILDING
BLKG	BLOCKING
B.O.	BOTTOM OF
BOT	BOTTOM
BRG	BEARING
CAB	CABINET
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONST	CONSTRUCTION
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CPT	CARPET
CT	CERAMIC TILE
CW	COLD WATER
DET, DTL	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DWG(S)	DRAWING(S)
EA	EACH
EC	EXPOSED CEILING
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ENG	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISH
FLR	FLOOR
FR	FIRE RETARDANT
FT	FEET
GA	GAUGE
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GYP BD	GYPNUM BOARD
HDWR	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HW	HOT WATER
INSUL	INSULATION
JAN	JANITOR
JST	JOIST
JD	JOINT
KD	KNOCKDOWN
KIT	KITCHEN
LAM	LAMINATE
LAV	LAVATORY
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MO	MASONRY OPENING
MTL	METAL
N/A	NOT APPLICABLE
NR	NON-RATED/NO RATING
NIC	NOT IN CONTRACT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFD	OVERFLOW DRAIN
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OTO	OUT TO OUT
PLAS LAM	PLASTIC LAMINATE

PLWD	PLYWOOD
PS	PROJECTION SCREEN
QT	QUARRY TILE
R	RISER
RA	RETURN AIR
RB	RESILIENT BASE
RD	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR
REQD	REQUIRED
RO	ROUGH OPENING
SA	SUPPLY AIR
SCHED	SCHEDULE
SCMD	SOLID CORE METAL DOOR
SCVD	SOLID CORE WOOD DOOR
SEC	SECTION
SF	SQUARE FOOT
SIM	SIMILAR
SPECS	SPECIFICATIONS
SS	SQUARE
SQ	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
TB	TACK BOARD
TEL	TELEPHONE
TLT	TOILET
T.O.	TOP OF
TRTD	TREATED
TV	TELEVISION
TY	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
YCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VT	VINYL TILE
WI	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER

WP	WORKING POINT	(NOT ALL MAY APPLY)
		KEYED NOTE
		WINDOW OR GLAZED OPENING TAG IF WINDOW - WH IF STOREFRONT - SF IF CURTAINWALL - CWH
		ACCESSORY TAG
		EQUIPMENT TAG
		FINISH TAG
		ROOM TAG
		ELEVATION TAG - INTERIOR OR EXTERIOR
		SECTION CUT AT AREAS SHOWN SMALL SCALE
		ENLARGED PLAN
		ELEVATION TARGET. FINISHED FLOOR = 0'-0" UNO
		REVISION
		PLAN OR TRUE NORTH
		BATT INSULATION - WIDTH OF FRAMING UNO
		FIRE EXTINGUISHER IN SEMI-RECESSED CABINET PROVIDED / INSTALLED BY GC
		SURFACE MOUNTED FIRE EXTINGUISHER PROVIDED / INSTALLED BY GC
		DOOR WITH DOOR NUMBER
		WINDOW OR GLAZED OPENING
		STUD FRAMED WALL - REFER TO INDEX SHEET FOR INFORMATION
		CMU WALL - REFER TO SECTIONS AND DETAILS
		BRICK WALL - REFER TO SECTIONS AND DETAILS
		CONCRETE WALL - REFER TO SECTIONS AND DETAILS
		EFS OVER SUBSTRATE - REFER TO SECTIONS FOR WIDTH AND PROFILE
		EXISTING DOOR - REFER TO DOOR SCHEDULE
		EXISTING FRAMED WALL
		EXISTING WINDOW WITH SILL AND / OR STOOL
		DEMO'D DOOR
		DEMO'D WALL
		WALL TYPE WALL HEIGHT IF DESIGNATED ON PLANS. IF NOT, SEE WALL TYPES THIS SHEET
		COVER

CODE ANALYSIS

APPLICABLE CODES	
BUILDING CODE	
2018 INTERNATIONAL BUILDING CODE	
PLUMBING CODE	
2017 INTERNATIONAL PLUMBING CODE	
ELECTRICAL CODE	
2017 NATIONAL ELECTRICAL CODE	
FIRE CODE	
2018 INTERNATIONAL FIRE CODE	
MECHANICAL CODE	
2018 INTERNATIONAL MECHANICAL CODE	
FUEL GAS CODE	
2018 FUEL GAS CODE	
INDIANA HANDICAPPED ACCESSIBILITY CODE	
2009 ANSI A117.1	
ADA ACCESSIBILITY GUIDELINES	

OCCUPANCY (OVERALL BUILDING)	
CLASSIFICATION (302.1):	B
OCCUPANCY (TENANT SPACE)	
CLASSIFICATION (302.1):	B
ACCESSORY USES (508.2.1):	N/A
NON-SEPARATED USES (508.3.2):	N/A
SEPARATED USES (508.3.3):	N/A

AUTOMATIC SPRINKLER SYSTEM	
SPRINKLER SYSTEM REQUIRED (903):	YES
SPRINKLER SYSTEM PROVIDED:	YES

ALLOWABLE BUILDING HEIGHT	
TABULAR HEIGHT (503):	75'

ALLOWABLE BUILDING AREA	
TABULAR AREA (503):	23,000 SF

BUILDING AREA INCREASE	
INCREASE FOR SPRINKLERED BUILDING (506.3):	300%
UNLIMITED AREA (507):	N/A
FRONTAGE INCREASE (506.2):	N/A
IF = (FIP - 25) x W / 30	
TOTAL ALLOWABLE AREA WITH INCREASES:	92,000
A ₃ = A _c + (A _c x I _f) + (A _c x I _s)	
A ₃ = FILL IN	

ACTUAL BUILDING HEIGHT AND AREA	
BUILDING AREA:	14,123 SF
BUILDING HEIGHT (FEET / # FLOORS):	27'
PROJECT AREA	3,880 SF

TABULAR OCCUPANT LOAD (1004.1.2)	
OCCUPANT LOAD FACTOR:	1/100

ACTUAL OCCUPANT LOAD (1004.1.2)	
SQUARE FOOTAGE / OCCUPANT LOAD FACTOR:	3880/100
TOTAL OCCUPANTS:	39

FIRE RESISTIVE REQUIREMENTS (601 AND 602)	
CONSTRUCTION TYPE:	NR
STRUCTURAL FRAME:	NR
EXTERIOR BEARING WALLS:	NR
INTERIOR BEARING WALLS:	NR
EXTERIOR NON-BEARING WALLS:	NR
INTERIOR NON-BEARING WALLS:	NR
FLOOR CONSTRUCTION:	NR
ROOF CONSTRUCTION:	NR
SHAFTS:	N/A

FIRE RESISTANCE RATED CONSTRUCTION (704, 601, 602)	
RATED EXTERIOR WALLS:	N/A
FIRE SEPARATION DISTANCE	60'+
UNPROTECTED OPENING AREA:	N/A

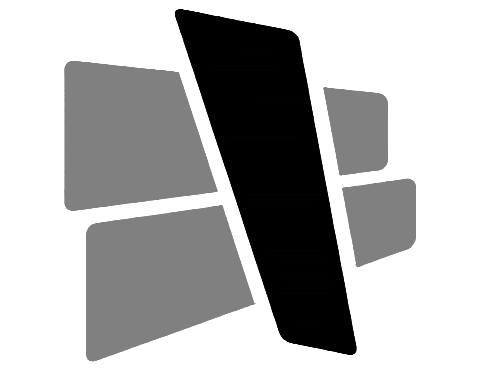
INTERIOR WALL AND CEILING FINISH REQUIREMENTS (803)	
SEE FINISH SCHEDULE FOR MATERIALS	
ALL MATERIALS ARE CLASS A RATED	

FIRE PROTECTION SYSTEMS	
STANDPIPE SYSTEM (905):	EXIST
PORTABLE FIRE EXTINGUISHERS (906.1):	SEE PLAN
FIRE ALARM AND DETECTION SYSTEMS (907):	FILL IN
SMOKE CONTROL SYSTEMS (909):	N/A
SMOKE AND HEAT VENTS (910):	N/A

EGRESS	
MINIMUM WIDTH FACTOR (1005.1):	0.15
REQUIRED MINIMUM WIDTH FROM SPACE (1005.1):	5.85"
MINIMUM NUMBER OF EXITS (1015):	1
ACTUAL NUMBER OF EXITS:	4
ALLOWABLE TRAVEL DISTANCE (1016.2):	144'
CORRIDOR CONSTRUCTION (1018.1):	NR
MINIMUM CORRIDOR WIDTH (1018.2):	44"
MAXIMUM DEAD END CORRIDOR (1018.4):	50'

ABBREVIATIONS

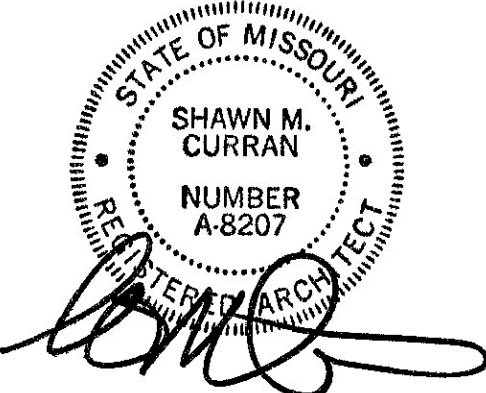
SYMBOLS



CURRAN
ARCHITECTURE

5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

CERTIFICATION



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PROJECT INFORMATION

LEE'S SUMMIT ANIMAL
HOSPITAL NORTH

250 NW McNARY COURT
LEE'S SUMMIT, MO
64086

DRAWINGS

ARCHITECTURAL

A001	INDEX
A002	TYPICAL ACCESSIBILITY DETAILS
A100	LIFE SAFETY PLAN
A101	FLOOR PLAN
A102	ENLARGED RESTROOM PLANS
A110	REFLECTED CEILING PLAN
A130	EQUIPMENT PLAN
A601	DOOR SCHEDULE
A801	FINISH SCHEDULE
A820	CASEWORK ELEVATIONS
A821	CASEWORK ELEVATIONS
A822	CASEWORK ELEVATIONS
A823	CASEWORK SECTIONS & DETAILS

MECHANICAL

M001	MECHANICAL LEGEND AND DETAILS
M002	MECHANICAL DETAILS
M003	MECHANICAL SCHEDULES
M004	MECHANICAL SPECIFICATIONS
M005	MECHANICAL COMPLIANCE
M101	MECHANICAL PLAN

PLUMBING

P001	PLUMBING LEGEND AND SCHEDULES
P002	PLUMBING DETAILS
P003	PLUMBING DETAILS
P005	PLUMBING SPECIFICATIONS
P101	DOMESTIC WATER PLAN
P102	SANITARY PLAN
P201	PLUMBING SANITARY ISOMETRIC

ELECTRICAL

E001	ELECTRICAL LEGEND AND DETAILS
E002	ELECTRICAL ONE LINE AND SCHEDULES
E003	ELECTRICAL SPECIFICATIONS
E004	ELECTRICAL ENERGY CALCULATIONS
E101	LIGHTING PLAN
E102	POWER PLAN

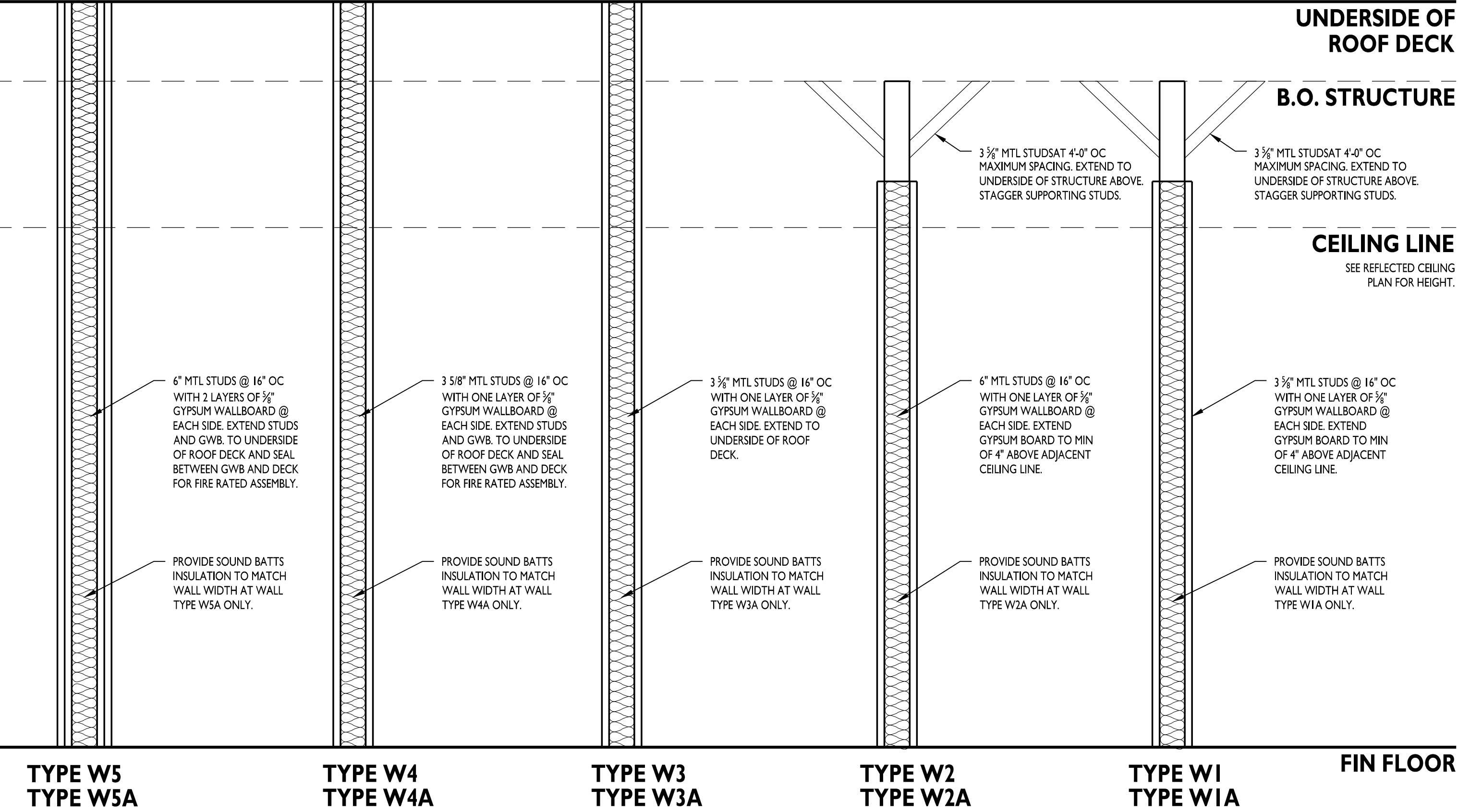
210095

INDEX

A001

WALL TYPES

NOT TO SCALE



WALL TYPE GENERAL NOTES

- NOTE: WALL HEIGHT AS MARKED ON PLANS IN CONJUNCTION WITH WALL TYPE SYMBOL WILL SUPERCEDE WALL HEIGHTS AS SHOWN ABOVE. SEE SYMBOLS LEGEND THIS SHEET.
- PROVIDE DEEP LEG DEFLECTION TRACK AT TOP OF ALL METAL STUD WALLS WHERE STUDS EXTEND TO UNDERSIDE OF ROOF DECK OR STRUCTURE ABOVE.
- USE MOLD AND MILDEW RESISTANT GYPSUM WALLBOARD ON ALL PLUMBING WALLS. USE 5/8" CEMENT BOARD INSTEAD OF GYP BOARD BEHIND ALL TILE FINISHES.
- BRACE METAL STUD WALLS TO TOP OF STRUCTURAL STEEL ELEMENTS ABOVE CEILING PLANE. COORDINATE REQUIRED BRACE SPACING WITH STRUCTURAL ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
- REFER TO ROOM FINISH SCHEDULE FOR ALL FINISH SELECTIONS, CEILING TYPES AND HEIGHTS; AND TYPES, SIZES AND LOCATIONS ETC.
- ALL STUD WALLS CREATING A CONCEALED WALL SPACE TO HAVE FIREBLOCKING AT INTERVALS NOT EXCEEDING 10'-0" PER 718.2.2 IBC 2012

5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317.288.0681
F :: 317.288.0753

TOILET PAPER: TOILET PAPER DISPENSERS SHALL BE INSTALLED WITHIN 36" MAX OF THE BACK WALL.



STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER
A-8207
REGISTERED ARCHITECT
MARCH 2017

PROJECT INFORMATION

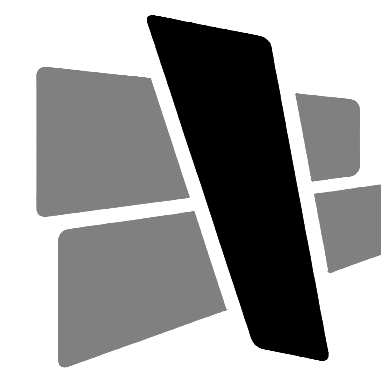
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LEE'S SUMMIT, MO
64086

[illegible]

210095

A002



CURRAN ARCHITECTURE

5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

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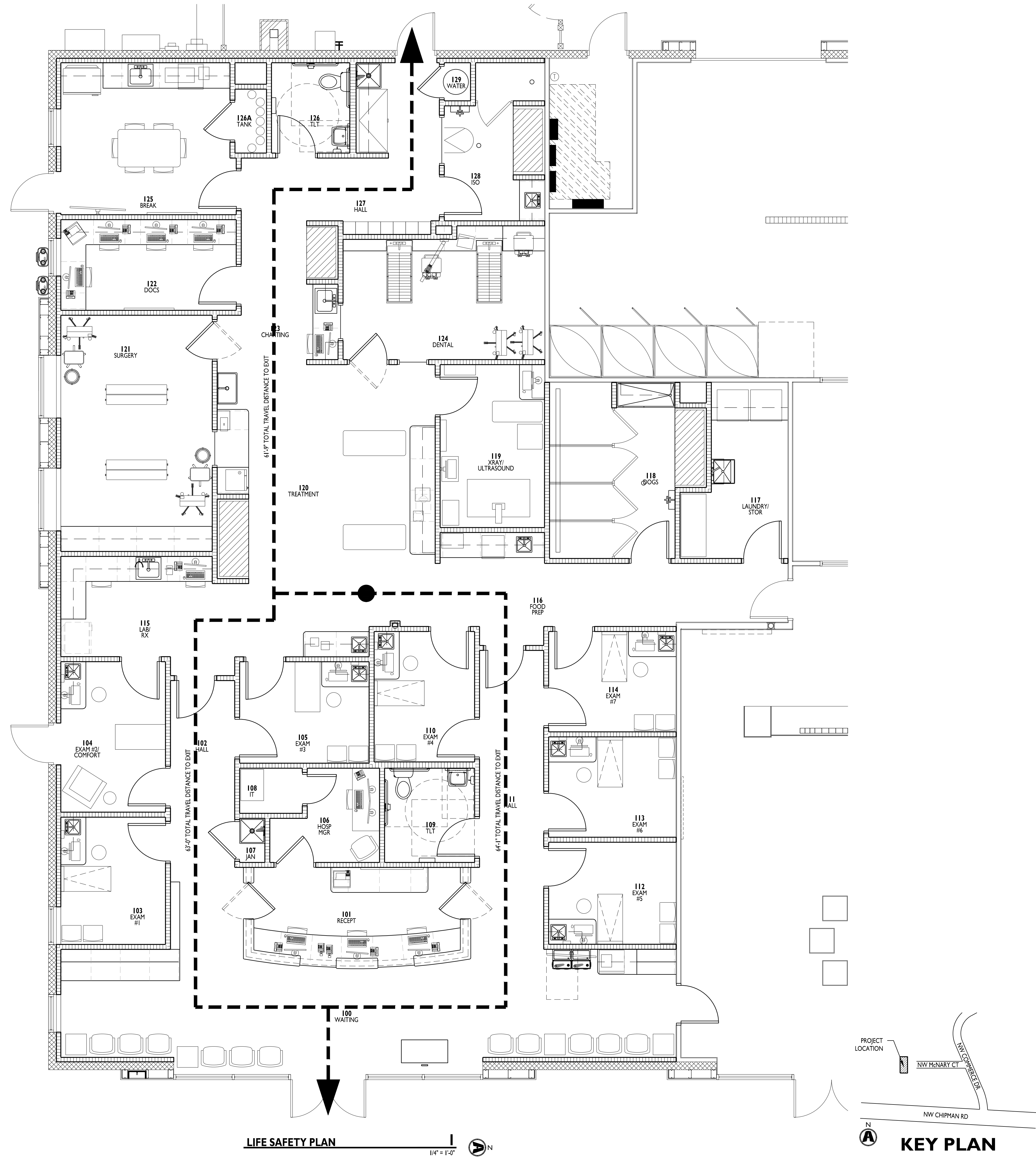
ISSUE DATES

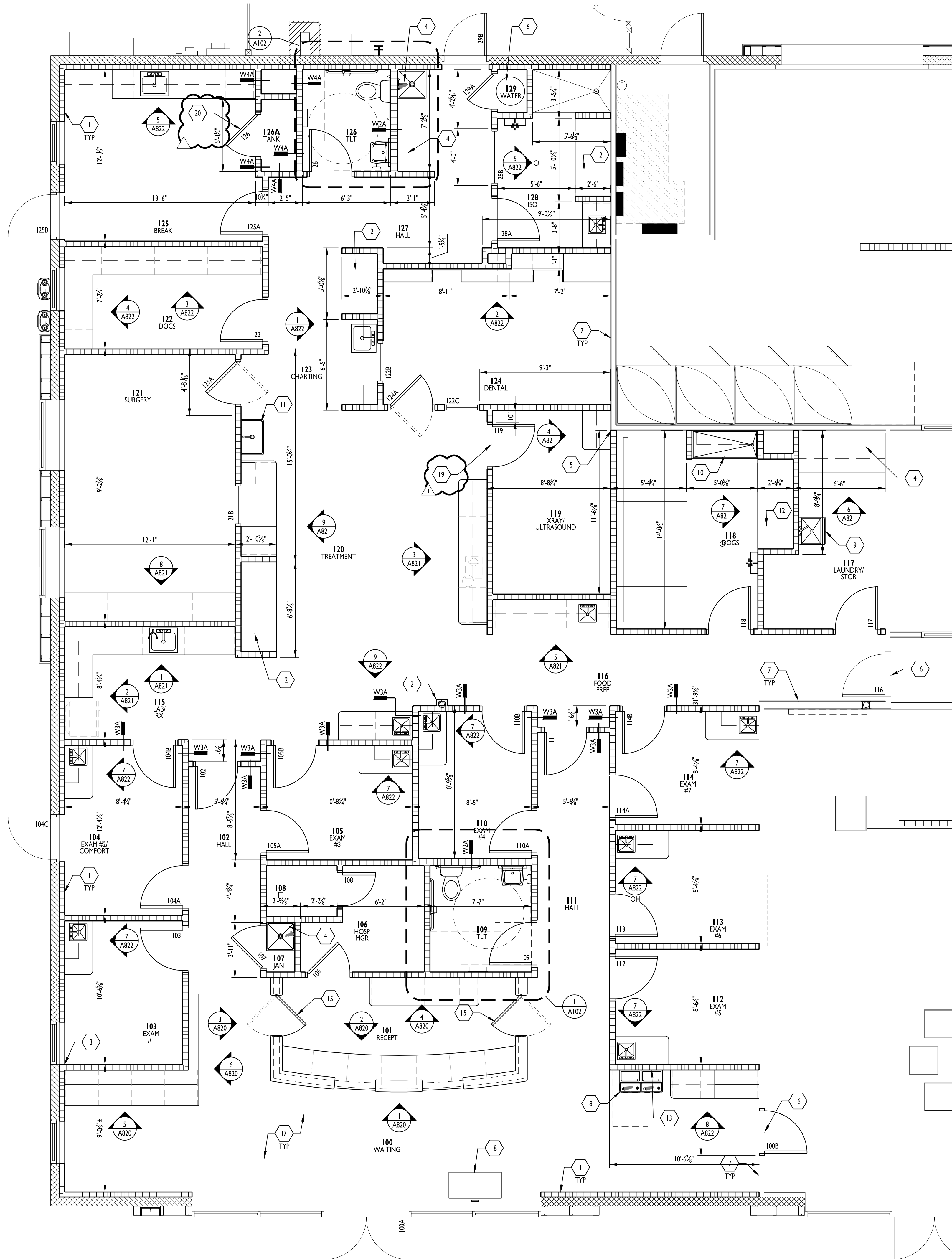
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LIFE SAFETY PLAN

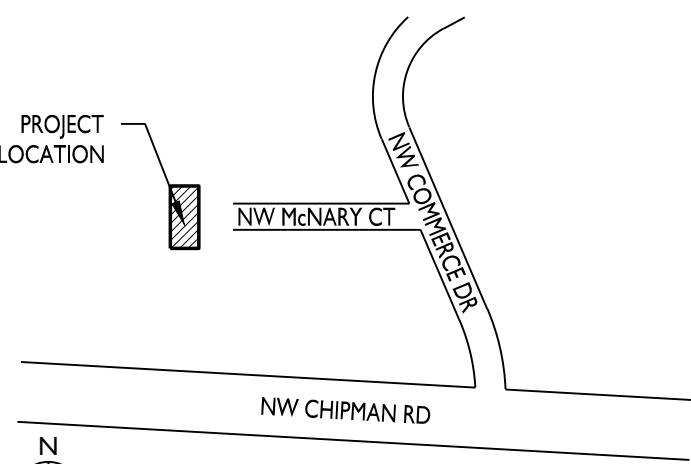
A100





FLOOR PLAN

1/4" = 1'-0"



KEY PLAN

GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND JOB CONDITIONS. ANY DEVIATION FROM WHAT IS NOTED IN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
- ALL DIMENSIONS SHOWN ARE FACE OF BRICK, MASONRY OR METAL STUD FRAMING, UNLESS OTHERWISE NOTED.
- PROVIDE DEEP LEG DEFLECTION TRACK AT ALL METAL STUD CONNECTIONS WITH STRUCTURE ABOVE, TYPICAL.
- PROVIDE FIRE RATED WOOD BLOCKING IN METAL STUD WALLS FOR ANY WALL SUPPORTED ITEMS.
- PROVIDE APPROVED FIRE RATED STOPPING MATERIALS IN ANY OPENINGS IN FIRE RATED ASSEMBLIES.
- REFER TO DOOR AND WINDOW SCHEDULES FOR ALL MATERIALS, FINISHES, AND HARDWARE INFORMATION.
- REFER TO EXTERIOR ELEVATIONS FOR ALL BRICK, MASONRY, AND OTHER EXPANSION JOINT LOCATIONS.
- ALL MATERIALS LOCATED IN CEILING PLENUM SHALL BE RATED FOR SUCH INSTALLATION OR PROTECTED TO PROVIDE COMPLIANCE. THIS INCLUDES BUT IS NOT LIMITED TO INSULATION (FHC 25/50) POWER AND LOW VOLTAGE WIRING, TELECOMMUNICATIONS CABLING, PLUMBING SUPPLY AND DRAIN LINES AND SUPPORTING BRACKETS AND/OR BLOCKING FOR CEILING HUNG ITEMS.
- PRIOR TO ORDERING ANY PRODUCTS, CONTRACTOR SHALL SUBMIT SAMPLES TO THE ARCHITECT OF ALL FINISH MATERIALS TO BE USED ON THE PROJECT. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ANY MATERIALS ORDERED INCORRECTLY WHEN THAT MATERIAL WAS NOT REVIEWED BY THE ARCHITECT.
- PROVIDE CONCRETE FILLED STEEL PIPE BOLLARDS AT ALL REQUIRED UTILITY EQUIPMENT LOCATIONS SUCH AS GAS METERS, ELECTRICAL TRANSFORMER PANELS, ETC.. COORDINATE WITH UTILITY COMPANY AND CONTRACTORS, WHEN APPLICABLE, FOR NECESSARY LOCATIONS. REFER TO CIVIL DRAWINGS FOR BOLLARD SPECIFICATIONS AND ADDITIONAL INFORMATION.
- ALL DOORS, UNLESS OTHERWISE NOTED, TO HAVE HINGE SIDE SET 4" FROM CORNER SHOWN TO OUTSIDE OF FRAME.
- UNLESS SPECIFIED ELSEWHERE, ALL INTERIOR SLABS AND SLAB INFILLS TO BE FF-50/FL-35 OVERALL AND FF-35/FL-25 LOCAL.
- ALL EXIT DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANSI 117.1 2009.
- ALL WALLS TO BE WALL TYPE W1A UNLESS NOTED OTHERWISE.

KEYED NOTES

- TYPICAL EXTERIOR WALLS: FURR OUT W/ 3 3/8" METAL STUDS W/ R-11 BATT INSULATION. COVER WITH 6 MIL VAPOR BARRIER & 5/8" GYP BD. EXTEND TO ROOF DECK.
- FURR OUT AROUND COLUMN W/ 1 1/2" METAL STUDS & 5/8" GYP BD.
- ALIGN WALL FRAMING W/ EDGE OF OPENING.
- MOP SINK, REFER TO PLUMBING DWGS. PROVIDE BOBBICK MOP HOLDER/SHELF ABOVE SINK. PROVIDE FRP ON WALL, 1' 48" ABOVE TOP OF MOP SINK AND 2' PAST EDGE OF MOP SINK.
- ALIGN FINISH FACES.
- WATER HEATER. REFER TO PLUMBING DWGS.
- PROVIDE SOUND BATT INSULATION & 5/8" GYP BD FULL HEIGHT ON EXISTING WALL IF NOT EXISTING.
- H-LO ELECTRIC WATER COOLER. REFER TO PLUMBING DWGS.
- LAUNDRY TUB. REFER TO PLUMBING DWGS.
- DOG WASH TUB. REFER TO PLUMBING DWGS.
- SURGICAL SCRUB SINK. REFER TO PLUMBING DWGS.
- PLASTIC LAMINATE COUNTER OVER STAINLESS STEEL CAGES. COORDINATE WING WALL LOCATIONS W/ CASES. COUNTER TO SIT 1" ABOVE TOP OF CASE BANK.
- PROVIDE FR BLOCKING IN WALL FOR CLIENT PROVIDED/INSTALLED TV.
- ADJUSTABLE SHELVES. REFER TO 1/A501.
- PLASTIC LAMINATE SWING GATE.
- REMOVE PORTION OF EXISTING WALL FOR INSTALLATION OF NEW DOOR.
- 5" THICK CONCRETE SLAB-ON-GRADE REINFORCED W/ 6x6xW2.9xW2.9 42# WWF ON A 10 MIL VAPOR RETARDER ON MINIMUM 4" LAYER OF WALL GRADED COMPACTED GRANULAR FILL. ALIGN W/ EXISTING SLAB. REFER TO SHELL DRAWINGS & GEOTECH REPORT FOR MORE INFORMATION.
- RECESS SLAB FOR SCALE. COORDINATE EXTENTS W/ SUPPLIER. SCALE TO BE FLUSH W/ FINISH FLOOR HEIGHT.
- PROVIDE SIGNAGE ON DOOR INDICATING PRESENCE OF XRAY EQUIPMENT IN ROOM. COORDINATE WITH FIRE INSPECTOR ON VERBIAGE AND TEXT SIZE.
- PROVIDE SIGNAGE ON DOOR INDICATING PRESENCE OF OXYGEN TANKS IN ROOM. COORDINATE WITH FIRE INSPECTOR ON VERBIAGE AND SIZE.

CURRAN
ARCHITECTURE

5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

CERTIFICATION

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER A-8207
REGISTERED ARCHITECT

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PROJECT INFORMATION

LEE'S SUMMIT ANIMAL HOSPITAL NORTH

250 NW McNARY COURT
LEE'S SUMMIT, MO 64086

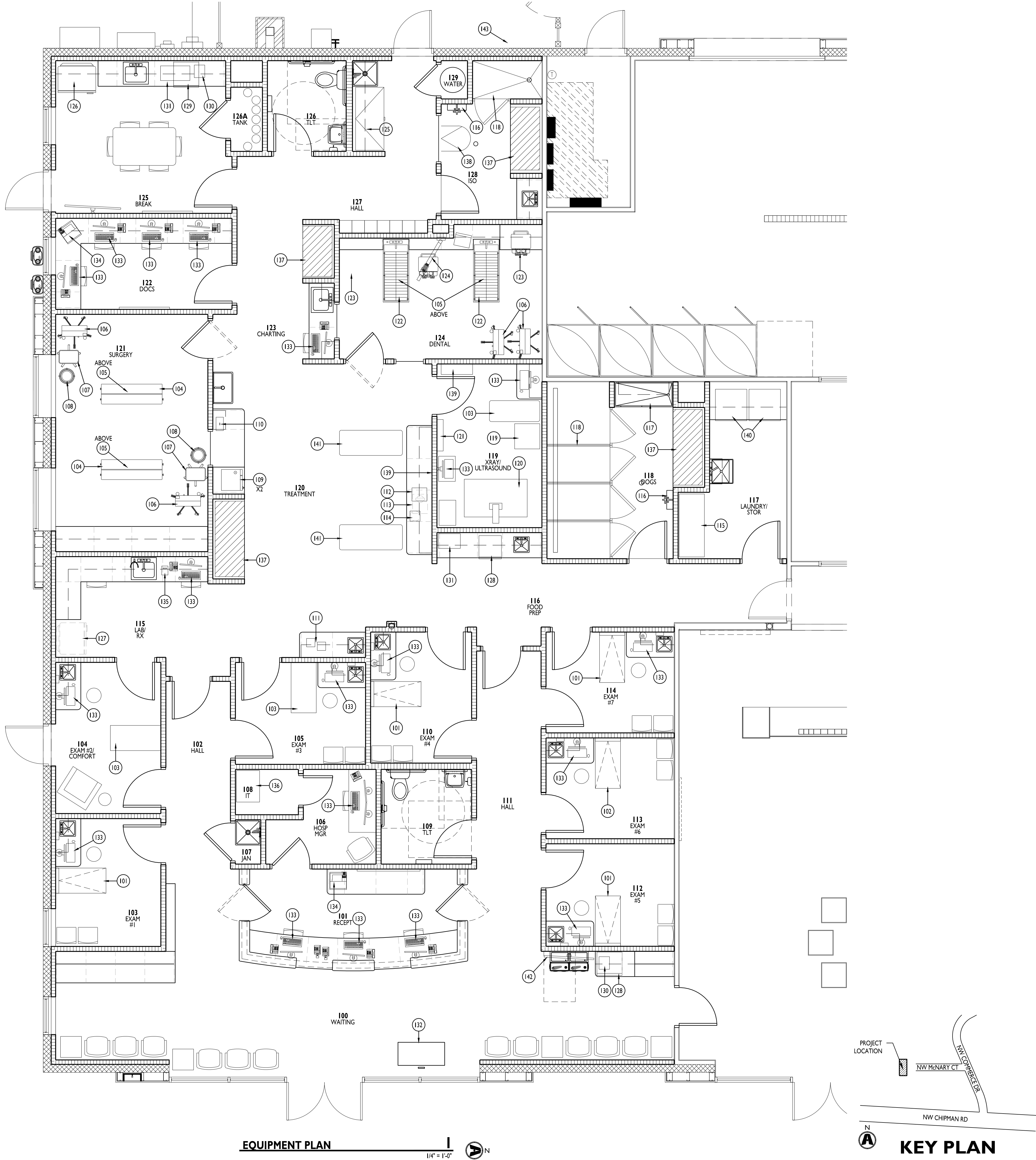
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PERMIT COMMENTS	04.23.21

210095

FLOOR PLAN

A101

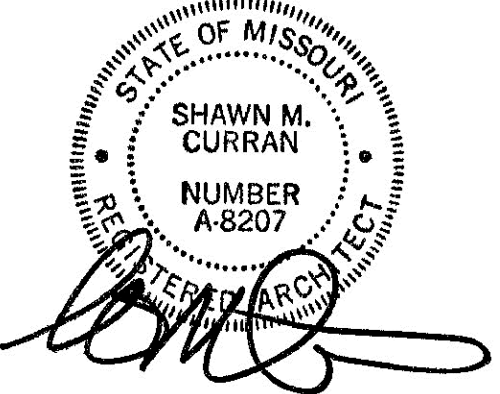
EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER
101	WALL MOUNT EXAM TABLE FOLDING		
102	WALL MOUNT EXAM TABLE, STATIONARY		
103	LIFT TABLE		
104	SURGERY TABLE		
105	SURGERY LIGHT		
106	ANESTHESIA MACHINE		
107	INSTRUMENT STAND		
108	KICK BUCKET		
109	AUTOClave		
110	ULTRASONIC CLEANER		
111	MICROSCOPE		
112	HEMATOLOGY ANALYZER		
113	CENTRIFUGE		
114	BLOOD ANALYZER		
115	WIRE ROLLING SHELVE		
116	HOSE REEL		
117	GROOMING TUB		
118	KENNEL ENCLOSURE WALLS/GATES		
119	ULTRASOUND		
120	XRAY		
121	GLOVE DISPENSER		
122	WET TABLE		
123	DENTAL CART		
124	DENTAL XRAY		
125	CHEST FREEZER		
126	REFRIGERATOR 36"		
127	REFRIGERATOR 30"		
128	REFRIGERATOR 24" GLASS FRONT UNDER COUNTER		
129	DISHWASHER		
130	COFFEE MAKER		
131	MICROWAVE		
132	SCALE		
133	COMPUTER STATION		
134	PRINTER		
135	LABEL PRINTER		
136	SERVER RACK		
137	CAGE		
138	WALL MOUNT EXAM TABLE		
139	NARCOTIC LOCKUP		
140	WASHER / DRYER		
141	ROLLING EXAM TABLE		
142	WALL MOUNT TV		
143	O2 TANK & CAGE		



CURRAN
ARCHITECTURE

5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

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PROJECT INFORMATION

LEE'S SUMMIT ANIMAL
HOSPITAL NORTH

250 NW McNARY COURT
LEE'S SUMMIT, MO
64086

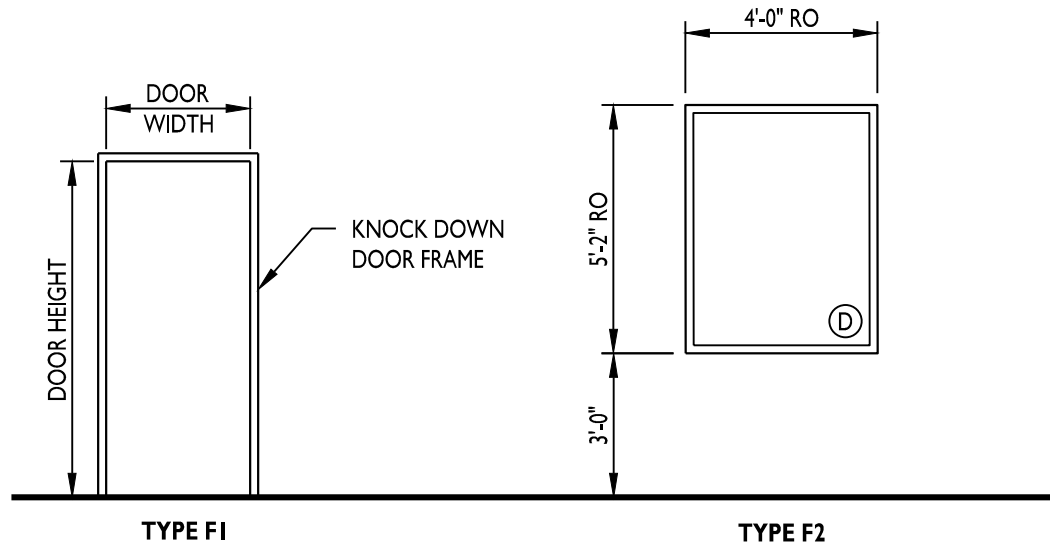
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PERMIT SET	04.01.21

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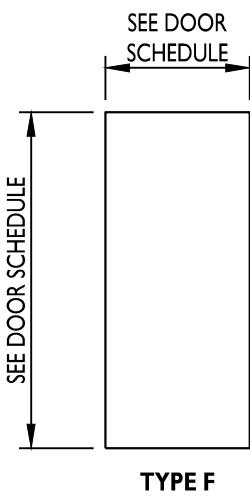
EQUIPMENT PLAN

A130

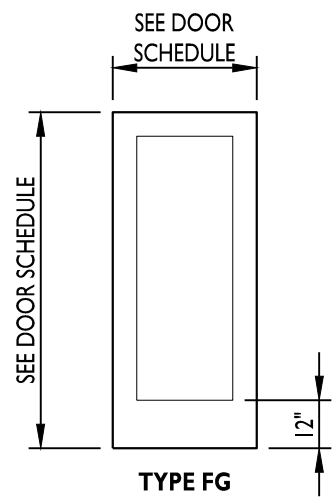


DOOR FRAME TYPES

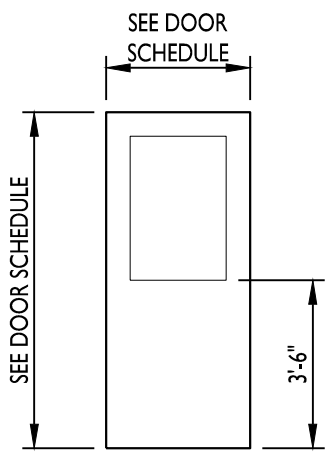
NOT TO SCALE



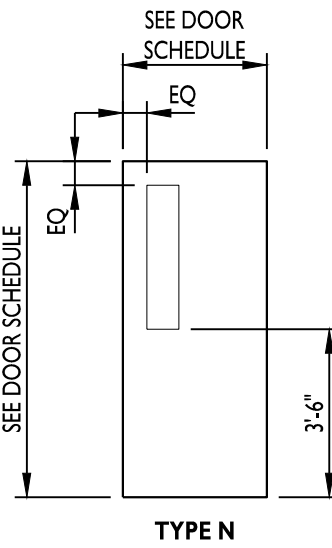
TYPE F



TYPE FG



TYPE HG



TYPE N

DOOR TYPES

NOT TO SCALE

DOOR SCHEDULE												
MARK	DOOR	SIZE	MATERIAL	GLAZING	FINISH	RATING	FRAME	MATERIAL	FINISH	RATING	HARDWARE	REMARKS
I00A	EXIST	EXIST	EXIST	EXIST	EXIST	-	EXIST	EXIST	EXIST	-	EXIST	
I00B	HG	3'-0" x 7'-0"	SCWD	D	MATCH EXIST	-	F1	KD	P-3	-	04	
I02	N	3'-0" x 7'-0"	SCWD	D	PRE-FINISHED	-	F1	KD	P-3	-	01	I
I03	N	3'-0" x 7'-0"	SCWD	D	PRE-FINISHED	-	F1	KD	P-3	-	01	I
I04A	N	3'-0" x 7'-0"	SCWD	D	PRE-FINISHED	-	F1	KD	P-3	-	01	I
I04B	F	3'-0" x 7'-0"	SCWD	-	PRE-FINISHED	-	F1	KD	P-3	-	03	2
I04C	EXIST	EXIST	EXIST	EXIST	EXIST	-	EXIST	EXIST	EXIST	-	EXIST	
I05A	N	3'-0" x 7'-0"	SCWD	D	PRE-FINISHED	-	F1	KD	P-3	-	01	I
I05B	F	3'-0" x 7'-0"	SCWD	-	PRE-FINISHED	-	F1	KD	P-3	-	03	2
I06	F	3'-0" x 7'-0"	SCWD	-	PRE-FINISHED	-	F1	KD	P-3	-	05	
I07	F	3'-0" x 7'-0"	SCWD	-	PRE-FINISHED	-	F1	KD	P-3	-	01	
I08	F	3'-0" x 7'-0"	SCWD	-	PRE-FINISHED	-	F1	KD	P-3	-	05	
I09	F	3'-0" x 7'-0"	SCWD	-	PRE-FINISHED	-	F1	KD	P-3	-	02	3
I10A	N	3'-0" x 7'-0"	SCWD	D	PRE-FINISHED	-	F1	KD	P-3	-	01	I
I10B	F	3'-0" x 7'-0"	SCWD	-	PRE-FINISHED	-	F1	KD	P-3	-	03	2
I11	N	3'-0" x 7'-0"	SCWD	D	PRE-FINISHED	-	F1	KD	P-3	-	03	
I12	N	3'-0" x 7'-0"	SCWD	D	PRE-FINISHED	-	F1	KD	P-3	-	01	I
I13	N	3'-0" x 7'-0"	SCWD	D	PRE-FINISHED	-	F1	KD	P-3	-	01	I
I14A	N	3'-0" x 7'-0"	SCWD	D	PRE-FINISHED	-	F1	KD	P-3	-	01	I
I14B	F	3'-0" x 7'-0"	SCWD	-	PRE-FINISHED	-	F1	KD	P-3	-	03	2
I16	N	3'-0" x 7'-0"	HM	D	P-3	-	F1	KD	P-3	-	04	
I17	F	3'-0" x 7'-0"	HM	-	P-3	-	F1	KD	P-3	-	03	
I18	HG	3'-0" x 7'-0"	HM	D	P-3	-	F1	KD	P-3	-	03	
I19	HG	3'-0" x 7'-0"	HM	D	P-3	-	F1	KD	P-3	-	01	
I21A	N SIM	3'-0" x 7'-0"	ALUM	BY MFR	PRE-FINISHED	-	F1	KD	P-3	-	BY MFR	4
I21B	-	-	-	-	-	-	F2	-	-	-	-	
I22	F	3'-0" x 7'-0"	HM	-	P-3	-	F1	KD	P-3	-	05	
I24A	N SIM	3'-0" x 7'-0"	ALUM	BY MFR	PRE-FINISHED	-	F1	KD	P-3	-	BY MFR	4
I24B	-	-	-	-	-	-	F2	-	-	-	-	
I24C	-	-	-	-	-	-	F2	-	-	-	-	
I25A	HG	3'-0" x 7'-0"	HM	D	P-3	-	F1	KD	P-3	-	01	
I25B	EXIST	EXIST	EXIST	EXIST	EXIST	-	EXIST	EXIST	EXIST	-	EXIST	
I26	F	3'-0" x 7'-0"	HM	-	P-3	-	F1	KD	P-3	-	02	3
I26A	F	3'-0" x 7'-0"	HM	-	P-3	60 MIN	F1	KD	P-3	60 MIN	07	
I28A	HG	3'-0" x 7'-0"	HM	D	P-3	-	F1	KD	P-3	-	03	
I28B	-	-	-	-	-	-	F2	-	-	-	-	
I29A	F	3'-0" x 7'-0"	HM	-	P-3	-	F1	KD	P-3	-	01	
I29B	EXIST	EXIST	EXIST	EXIST	EXIST	-	EXIST	EXIST	EXIST	-	EXIST	

GENERAL DOOR AND GLAZING NOTES

- A. ALL PRE-FINISHED WOOD DOORS SHALL BE SOLID CORE WITH WOOD VENEER, MARSHFIELD OR EQUIVALENT. PROVIDE FINISH SAMPLE AND DOOR CONSTRUCTION DIAGRAM FOR APPROVAL AND HARDWARE BLOCKING COORDINATION. VENEER TO BE WHITE BIRCH OR MAPLE, FREE OF DARK GRAINS UNLESS OTHERWISE NOTED.
- B. WOOD DOORS SHALL ONLY BE INSTALLED IN CONDITIONED SPACE.
- C. ALL HARDWARE TO BE MINIMUM 6 PIN BEST COMPATIBLE SYSTEM. COORDINATE KEYING WITH OWNER.
- D. TEMPERED AND ANNEALED GLASS TO BE CLEANED PER MANUFACTURER REQUIREMENTS. NYLON CLOTH METHODS PREFERRED. DO NOT USE RAZOR BLADES ON GLASS.
- E. GLASS AROUND DOORS AND IN DOORS SHALL BE TEMPERED UNLESS OTHERWISE NOTED IN ELEVATIONS.
- F. ANY RATED DOORS TO HAVE LABEL INSTALLED IN JAMB.
- G. ALL EXITS DOORS TO HAVE TACTILE EXIT SIGNAGE PER 703.4 OF THE ANS I 17.1 2009.
- H. INSTALL OWNER PROVIDED ADA COMPLIANT RESTROOM SIGNAGE. VERIFY WITH ARCHITECT.

GLAZING TYPES

- A. SECTION OF GLAZING REQUIRED TO BE 1" INSULATED GREY TINTED GLASS.
- B. SECTION OF GLAZING REQUIRED TO BE 1" INSULATED TEMPERED GLASS.
- C. SECTION OF GLAZING REQUIRED TO BE 1/4" GLASS.
- D. SECTION OF GLAZING REQUIRED TO BE 1/4" TEMPERED GLASS.
- E. SECTION OF GLAZING REQUIRED TO BE 1" INSULATED TEMPERED GREY TINTED SPANDREL GLASS.

EXTERIOR GLAZING MUST MEET THE FOLLOWING SPECIFICATIONS FOR ENERGY CODE COMPLIANCE:

- LOW "E" COATING
"U" VALUE - MINIMUM OF 0.28
"SHGC" VALUE - MAXIMUM OF 0.47

DOOR HARDWARE

HARDWARE SET #01

- 3 HINGES
1 PASSAGE SET
3 MUTES

HARDWARE SET #02

- 3 HINGES
1 PRIVACY LOCKSET
1 CLOSER
3 MUTES

HARDWARE SET #03

- 3 HINGES
1 PASSAGE SET
3 MUTES
1 CLOSER

HARDWARE SET #04

- 3 HINGES
1 ENTRANCE LOCKSET
1 CLOSER
3 MUTES

HARDWARE SET #05

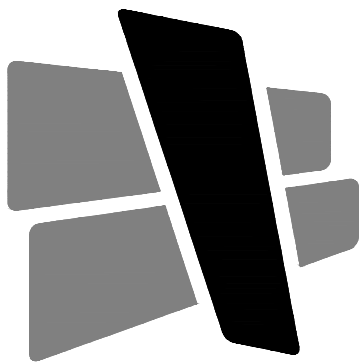
- 3 HINGES
1 CLASSROOM LOCKSET
3 MUTES

HARDWARE SET #06

- 6 HINGES
2 KEYED EXIT DEVICES (PANIC)
2 CLOSERS
3 MUTES

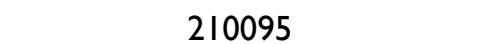
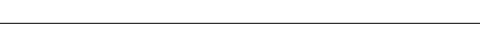
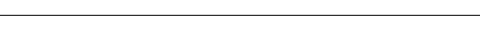
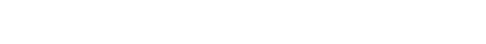
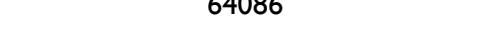
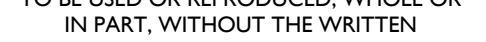
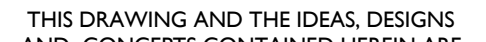
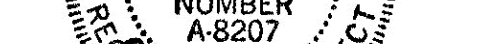
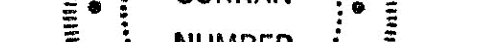
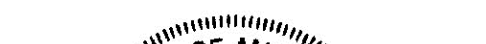
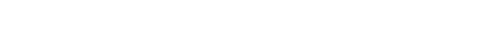
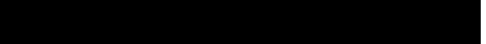
HARDWARE SET #07

- 3 HINGES
1 ENTRANCE LOCKSET
1 CLOSER
1 SMOKE SEAL
1 SMOKE SWEEP



CURRAN
ARCHITECTURE

5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753



MATERIALS SCHEDULE							ROOM FINISH SCHEDULE											
MARK	MATERIAL	MANUFACTURER	COLOR	PATTERN / TEXTURE	NUMBER	REMARKS	ROOM #	ROOM NAME	FLOORING	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CABINETS / COUNTERTOPS	CEILING MAT / HEIGHT	REMARKS	
T-1	TILE	TBD	TBD	TBD	TBD		100	WAITING	T-1	T-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-2 / SS-1	ACT-1 / 10-0		
T-2	TILE	TBD	TBD	TBD	TBD	FROM FLOOR TO 60" AFF W/ SCHLUTER STRIP AT TOP EDGE	101	RECEPTION	T-1	T-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-2 / PL-3 / SS-1	ACT-1 / 10-0		
SC-1	STAINED CONCRETE	TBD	TBD	TBD	TBD	CONCRETE TO BE STAINED & POLISHED	102	HALL	T-1	T-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1		ACT-1 / 10-0		
B-1	BASE	TBD	TBD	4" COVE	TBD		103	EXAM #1	SC-1	B-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-2 / SS-1	ACT-1 / 10-0		
PL-1	PLASTIC LAMINATE	TBD	TBD	TBD	TBD	INSTALL ON 1/2" PLYWOOD ON NOTED WALL TO 48" AFF W/ SCHLUTER STRIP AT TOP EDGE	104	EXAM #2 / COMFORT	SC-1	B-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-2 / SS-1	ACT-1 / 10-0		
PL-2	PLASTIC LAMINATE	TBD	TBD	TBD	TBD		105	EXAM #3	SC-1	B-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-2 / SS-1	ACT-1 / 10-0		
PL-3	PLASTIC LAMINATE	TBD	TBD	TBD	TBD		106	HOSP MANAGER	T-1	T-1	P-2	P-2	P-2	P-2	-	ACT-1 / 10-0		
SS-1	SOLID SURFACE	TBD	TBD	TBD	TBD	PRICE GRADE 3	107	JANITOR	SC-1	B-1	P-2	P-2	P-2	P-2	-	GYP BD / 8-0		
SS-2	STAINLESS STEEL	TBD	TBD	TBD	TBD		108	IT	SC-1	B-1	P-2	P-2	P-2	P-2	-	GYP BD / 8-0		
P-1	PAINT	TBD	TBD	SCRUBBABLE SATIN	TBD		109	TOILET	T-1	T-2	T-2 / P-2	T-2 / P-2	T-2 / P-2	T-2 / P-2	-	ACT-1 / 10-0		
P-2	PAINT	TBD	TBD	SCRUBBABLE SATIN	TBD		110	EXAM #4	SC-1	B-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-2 / SS-1	ACT-1 / 10-0		
P-3	PAINT	TBD	TBD	SEMI GLOSS	TBD		111	HALL	T-1	T-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	-	ACT-1 / 10-0		
FRP-1	FIBERGLASS REINFORCED PLASTIC	TBD	TBD	SMOOTH	TBD	FLOOR TO CEILING INSTALLATION WITH NO HORIZONTAL JOINTS UNLESS NOTED OTHERWISE	112	EXAM #5	SC-1	B-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-2 / SS-1	ACT-1 / 10-0		
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	ULTIMA	WHITE	1941	PRELUDE 15 / 16" GRID	113	EXAM #6	SC-1	B-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-2 / SS-1	ACT-1 / 10-0		
ACT-2	ACOUSTICAL CEILING TILE	ARMSTRONG	ULTIMA HEALTH ZONE HIGH NRC	WHITE	1447	PRELUDE 15 / 16" GRID	114	EXAM #7	SC-1	B-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-1 / P-1	PL-2 / SS-1	ACT-1 / 10-0		
							115	LAB / RX	SC-1	B-1	P-2	P-2	P-2	P-2	PL-2 / SS-1	ACT-1 / 10-0		
							116	FOOD PREP	SC-1	B-1	P-2	P-2	P-2	P-2	PL-2 / SS-1	ACT-1 / 10-0		
							117	LAUNDRY / STORAGE	SC-1	B-1	P-2	P-2	P-2	P-2	PL-2	ACT-1 / 10-0		
							118	DOGS	SC-1	B-1	FRP-1	FRP-1	FRP-1	FRP-1	-	ACT-2 / 10-0		
							119	XRAY / ULTRASOUND	SC-1	B-1	P-2	P-2	P-2	P-2	PL-2 / SS-1	ACT-1 / 10-0		
							120	TREATMENT	SC-1	B-1	P-2	P-2	P-2	P-2	PL-2 / SS-1	ACT-1 / 10-0		
							121	SURGERY	SC-1	B-1	FRP-1	FRP-1	FRP-1	FRP-1	PL-2 / SS-1	ACT-2 / 10-0		
							122	DOCS	SC-1	B-1	P-2	P-2	P-2	P-2	PL-2 / PL-3	ACT-1 / 10-0		
							123	CHARTING	SC-1	B-1	P-2	P-2	P-2	P-2	PL-2 / SS-1	ACT-1 / 10-0		
							124	DENTAL	SC-1	B-1	FRP-1	FRP-1	FRP-1	FRP-1	PL-2 / SS-1	ACT-2 / 10-0		
							125	BREAK	SC-1	B-1	P-2	P-2	P-2	P-2	PL-2 / SS-1	ACT-1 / 10-0		
							126	TOILET	SC-1	T-2	T-2 / P-2	T-2 / P-2	T-2 / P-2	T-2 / P-2	-	ACT-1 / 10-0		
							126A	TANKS	SC-1	B-1	P-2	P-2	P-2	P-2	-	ACT-1 / 10-0		
							127	HALL	SC-1	B-1	P-2	P-2	FRP-1 / P-2	FRP-1 / P-2	-	ACT-1 / 10-0		
							128	ISO	SC-1	B-1	FRP-1	FRP-1	FRP-1	FRP-1	PL-2 / SS-2	ACT-2 / 10-0		
							129	WATER	SC-1	B-1	P-2	P-2	P-2	P-2	-	GYP BD / 8-0		

GENERAL FINISH NOTES



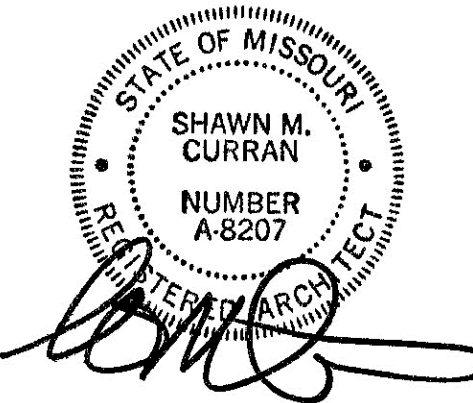
CURRAN
ARCHITECTURE

5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216

○ :: 317.288.0681

F :: 317.288.0753

CERTIFICATION



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PROJECT INFORMATION

LEE'S SUMMIT ANIMAL
HOSPITAL NORTH

250 NW McNARY COURT
LEE'S SUMMIT, MO
64086

ISSUE DATES

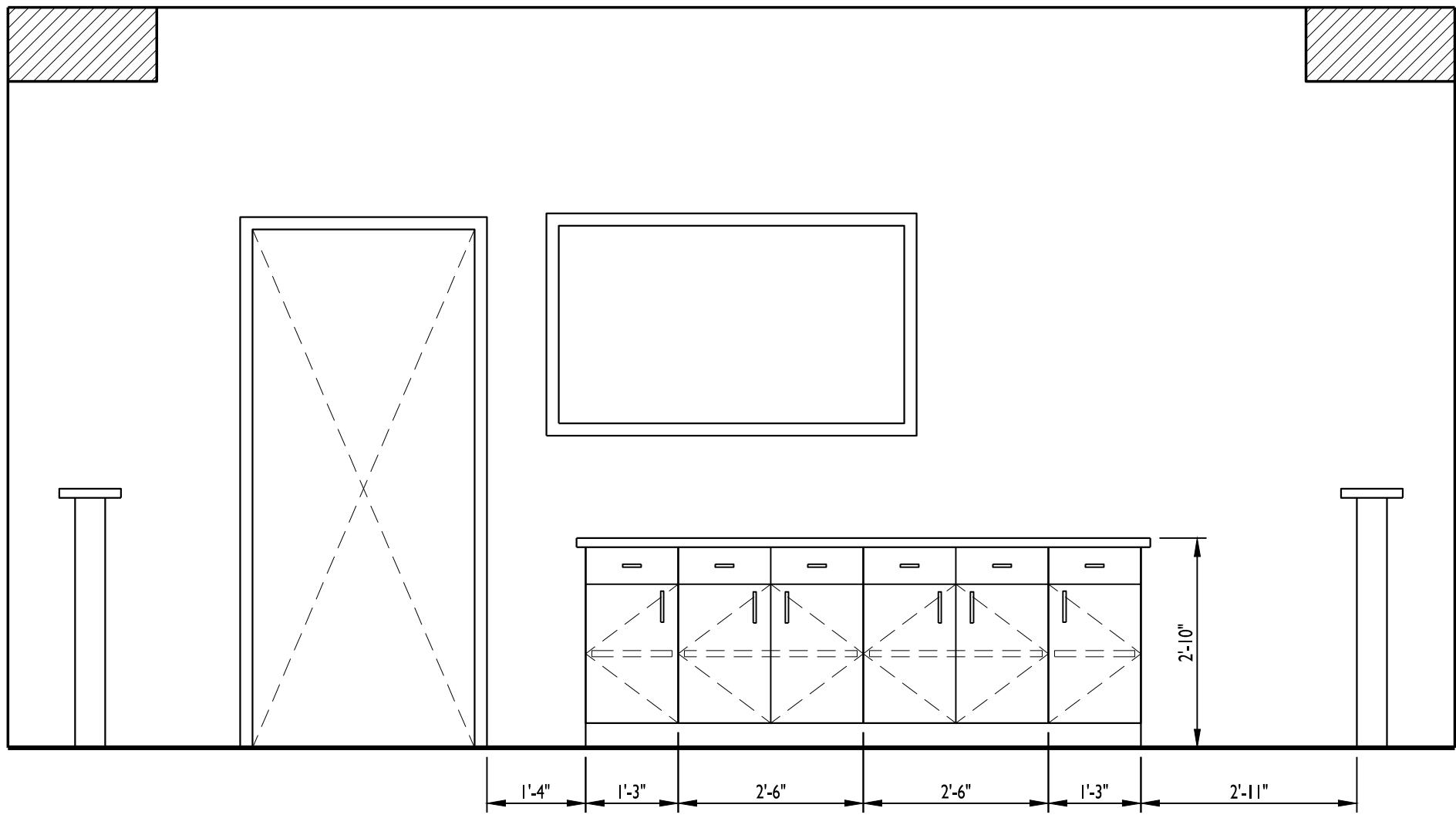
PERMIT SET

04.01.2

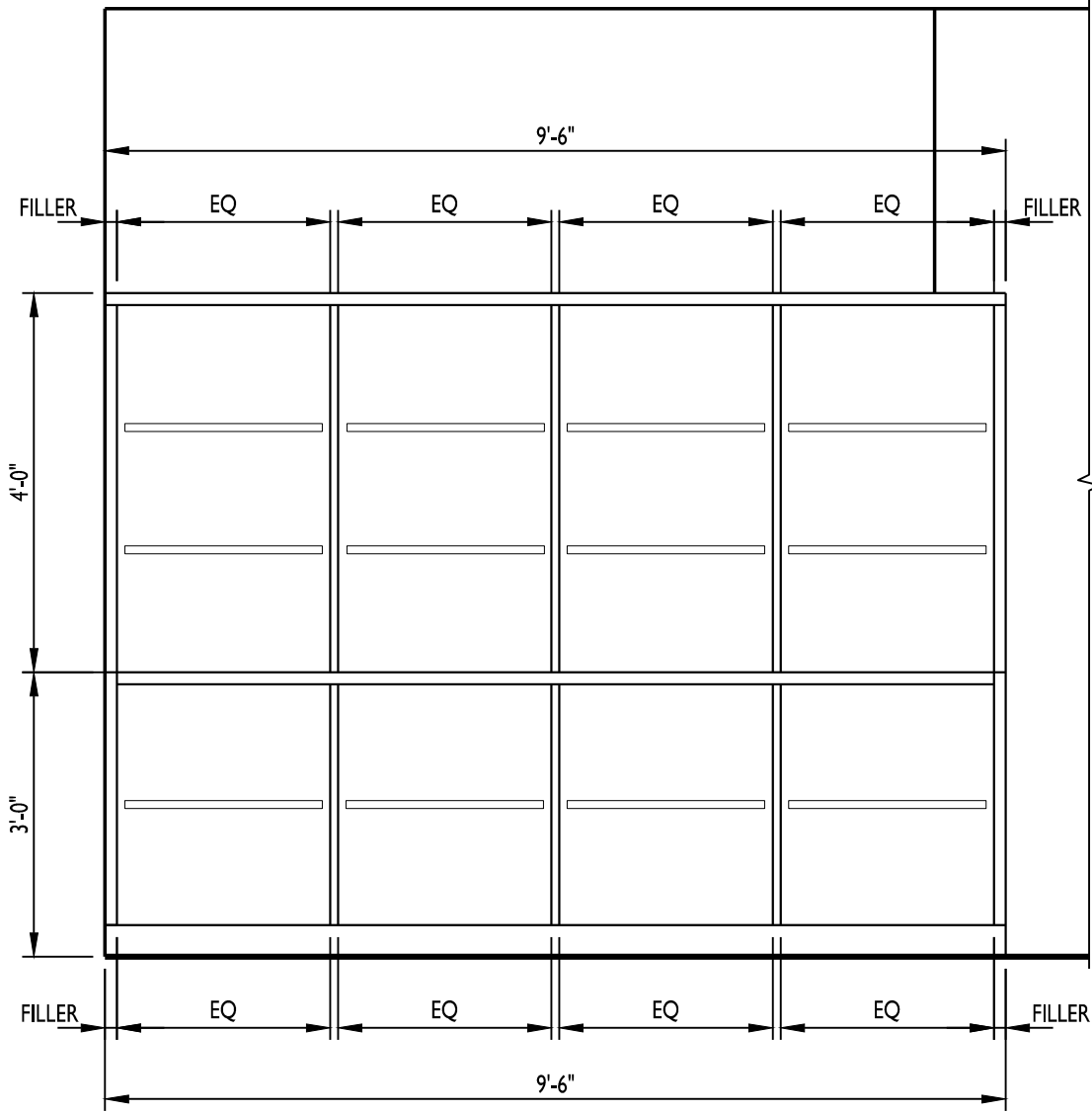
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FINISH SCHEDULE

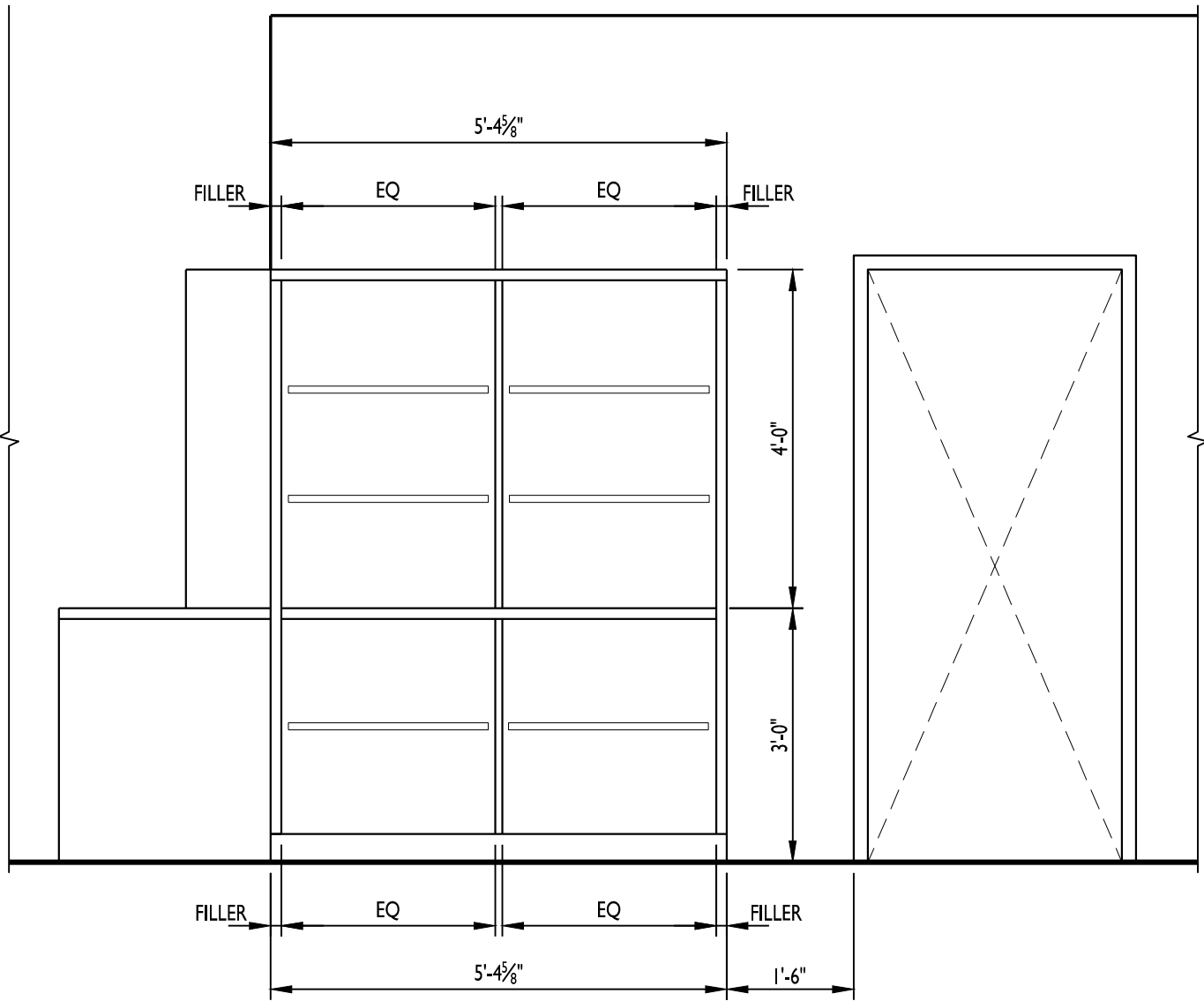
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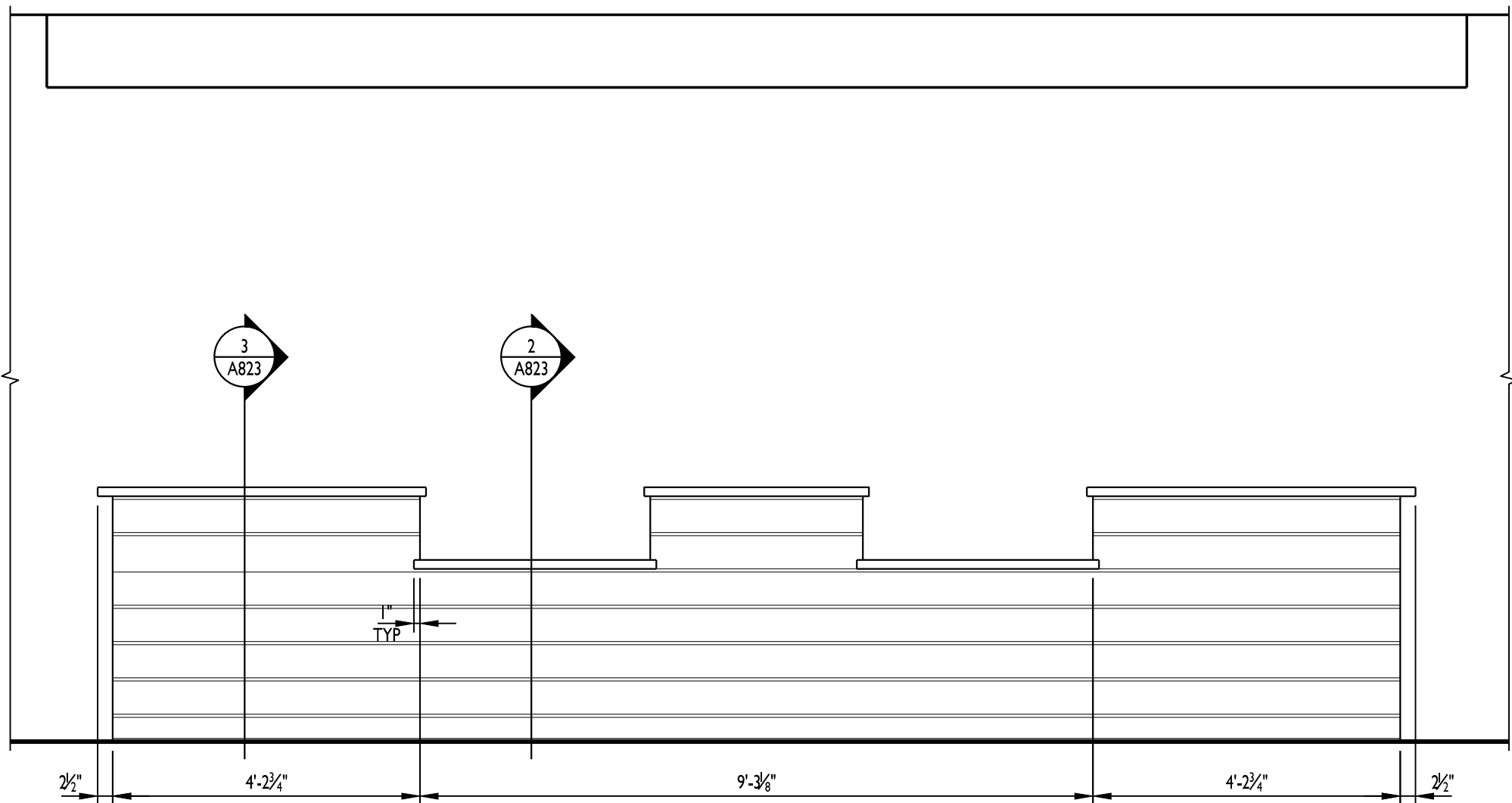
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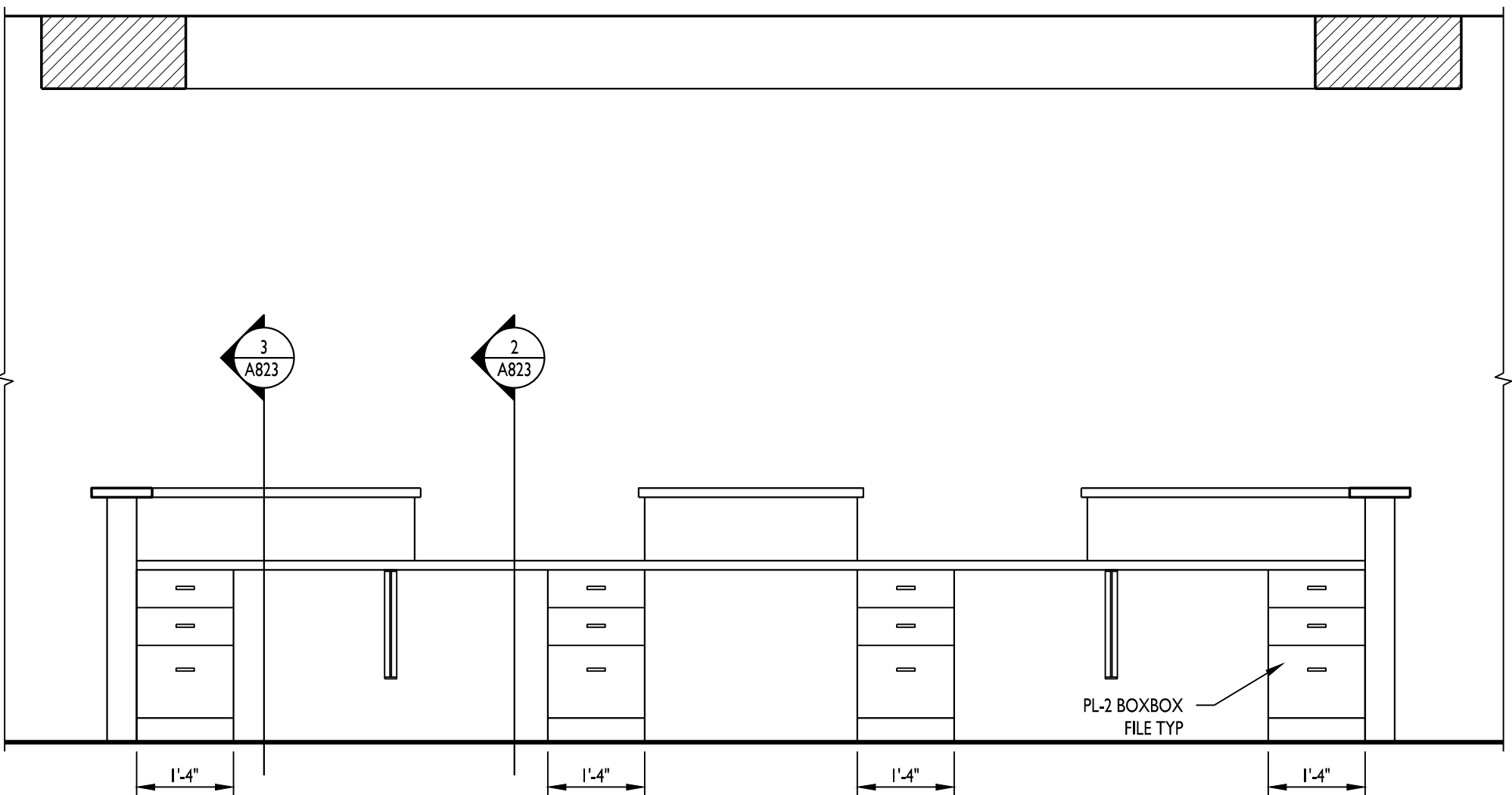
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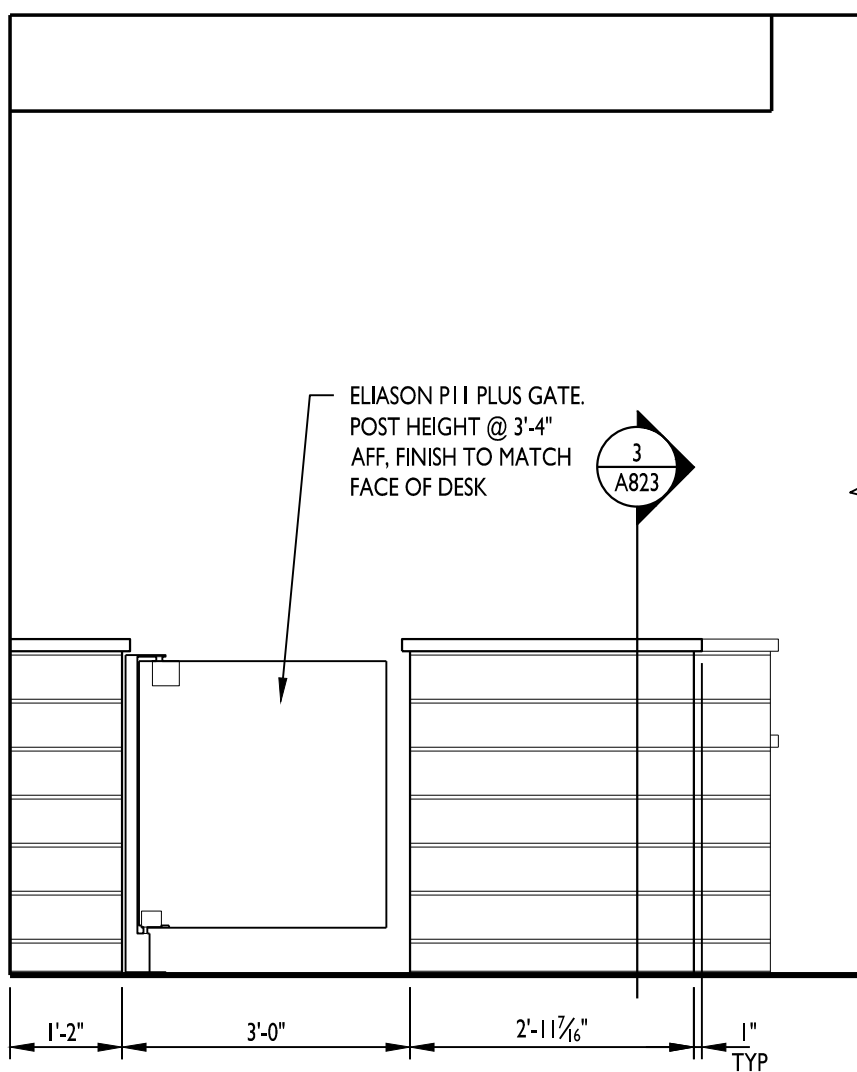
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ELEVATION 1
1/2" = 1'-0"



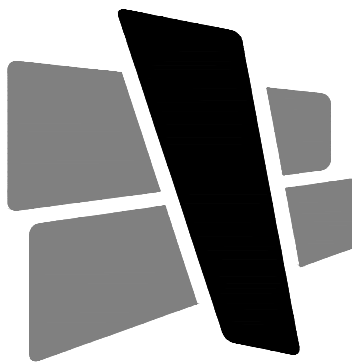
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1/2" = 1'-0"



ELEVATION 3
1/2" = 1'-0"

CASEWORK GENERAL NOTES

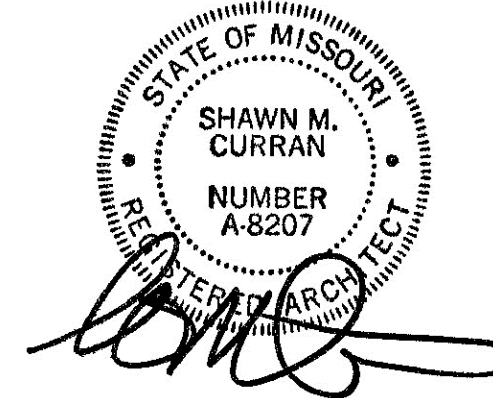
1. UNLESS SPECIFICALLY OTHERWISE NOTED, PROVIDE SELF EDGE ALONG EXPOSED FACES OF ALL COUNTER TOPS.
2. PROVIDE WOOD FR. BLOCKING IN WALL WHERE REQUIRED FOR WALL AND/OR BASE CABINET INSTALLATION. COORDINATE WITH CABINET MANUFACTURER PRIOR TO BLOCKING BEING INSTALLED. AT EXTERIOR WALL PROVIDE TREATED WOOD BLOCKING.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADA COMPLIANT CABINETS, HANDLES, CLEAR SPACES BELOW CABINETS WHERE REQUIRED ETC. WHETHER SHOWN ON THESE DETAILS OR NOT. COORDINATE WITH ARCHITECT IF ANY DISCREPANCIES ARISE.
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12. EASE ALL EXPOSED OUTSIDE EDGES AT ALL COMPONENTS FOR ITEMS SHOWN ON THIS SHEET.
13. REFER TO ROOM FINISH SCHEDULE FOR ALL WALL BASE REQUIREMENTS.



CURRAN
ARCHITECTURE

5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

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PROJECT INFORMATION

LEE'S SUMMIT ANIMAL
HOSPITAL NORTH

250 NW McNARY COURT
LEE'S SUMMIT, MO
64086

ISSUE DATES

PERMIT SET	04.01.21

210095

CASEWORK ELEVATIONS

A820

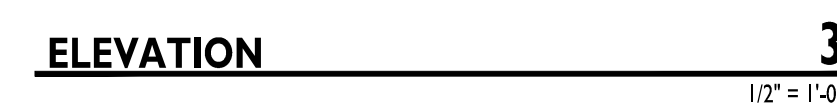
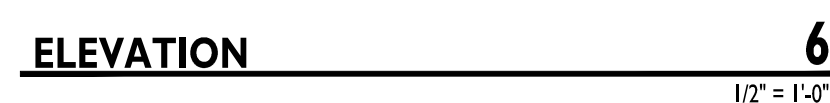
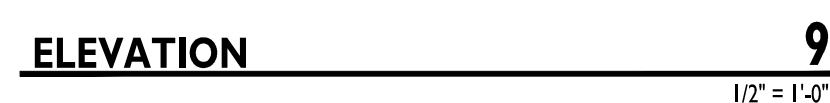
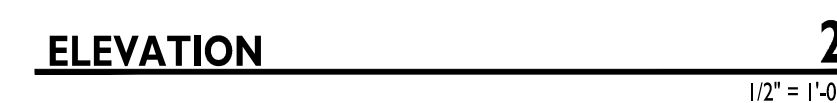
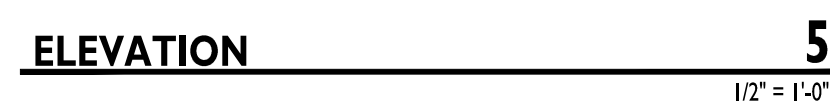
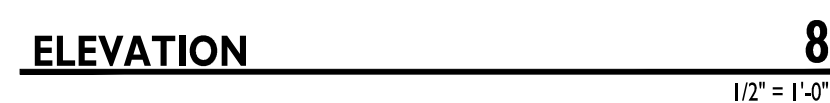
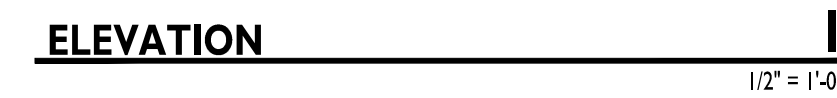
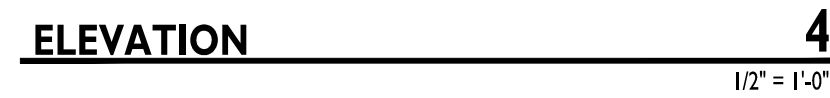
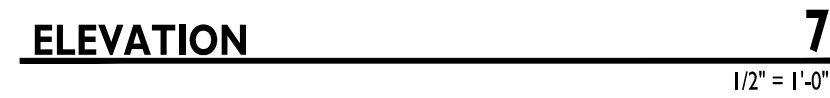
9 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317.288.0681
F :: 317.288.0753

STATE OF MISSOURI
SHAWN M. CURRAN
NUMBER
A-8207
REGISTERED PROFESSIONAL ARCHITECT

250 NW McNARY COURT
LEE'S SUMMIT, MO
64086

ERMIT SET 04.01.2

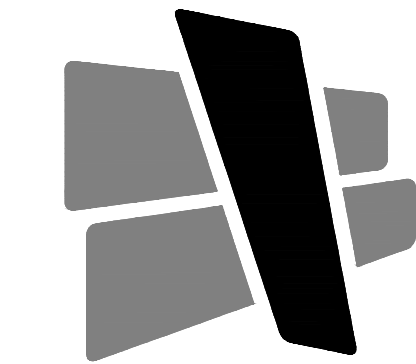
A82 I



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2. PROVIDE WOOD F.R. BLOCKING IN WALL WHERE REQUIRED FOR WALL AND/OR BASE CABINET INSTALLATION. COORDINATE WITH CABINET MANUFACTURER PRIOR TO BLOCKING BEING INSTALLED. AT EXTERIOR WALL PROVIDE TREATED WOOD BLOCKING.
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CASEWORK
GENERAL NOTES

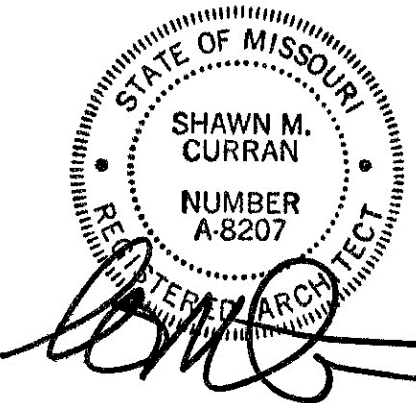
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CURRAN
ARCHITECTURE

5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

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PROJECT INFORMATION

LEE'S SUMMIT ANIMAL
HOSPITAL NORTH

250 NW McNARY COURT
LEE'S SUMMIT, MO
64086

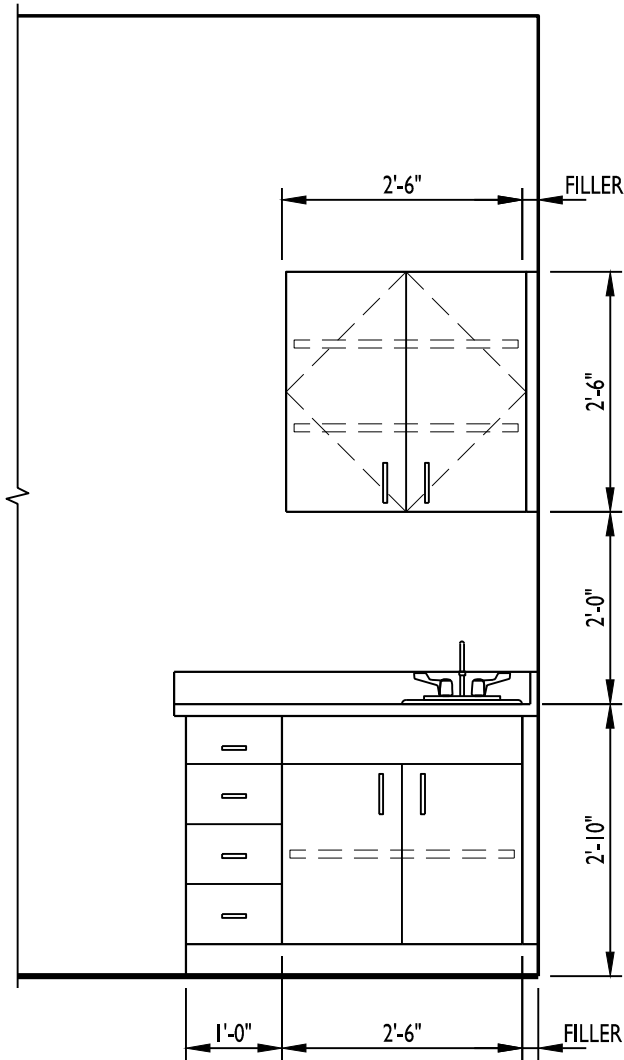
ISSUE DATES

PERMIT SET 04.01.21

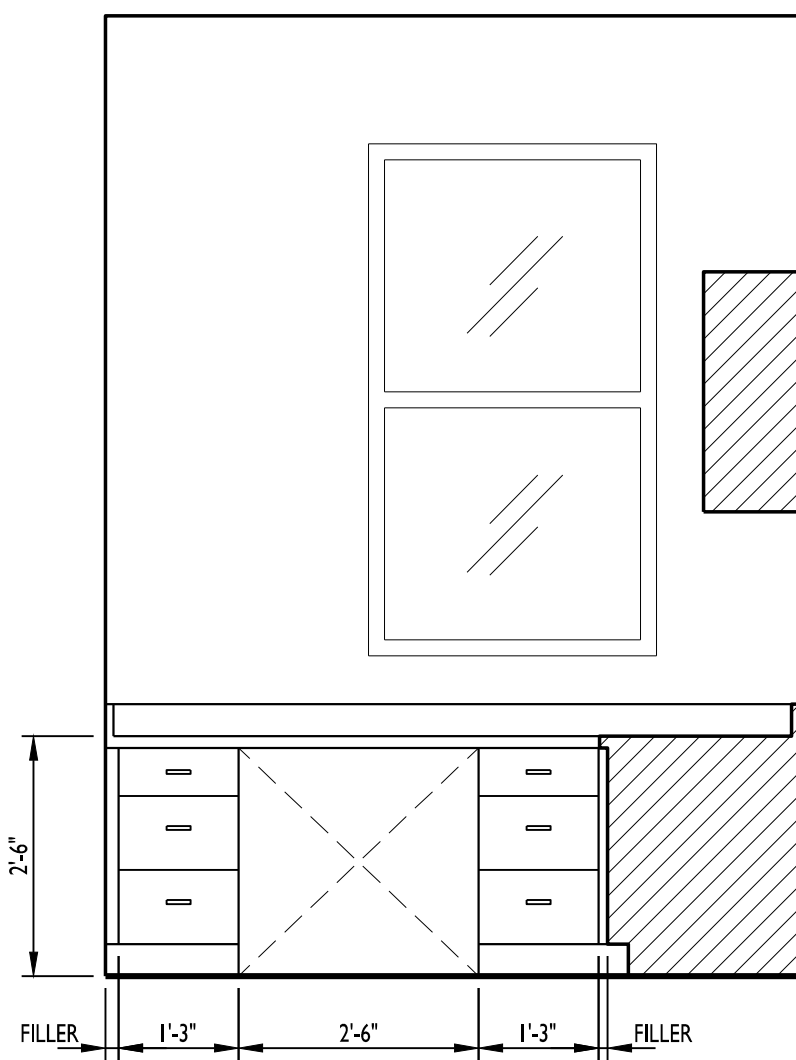
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CASEWORK ELEVATIONS

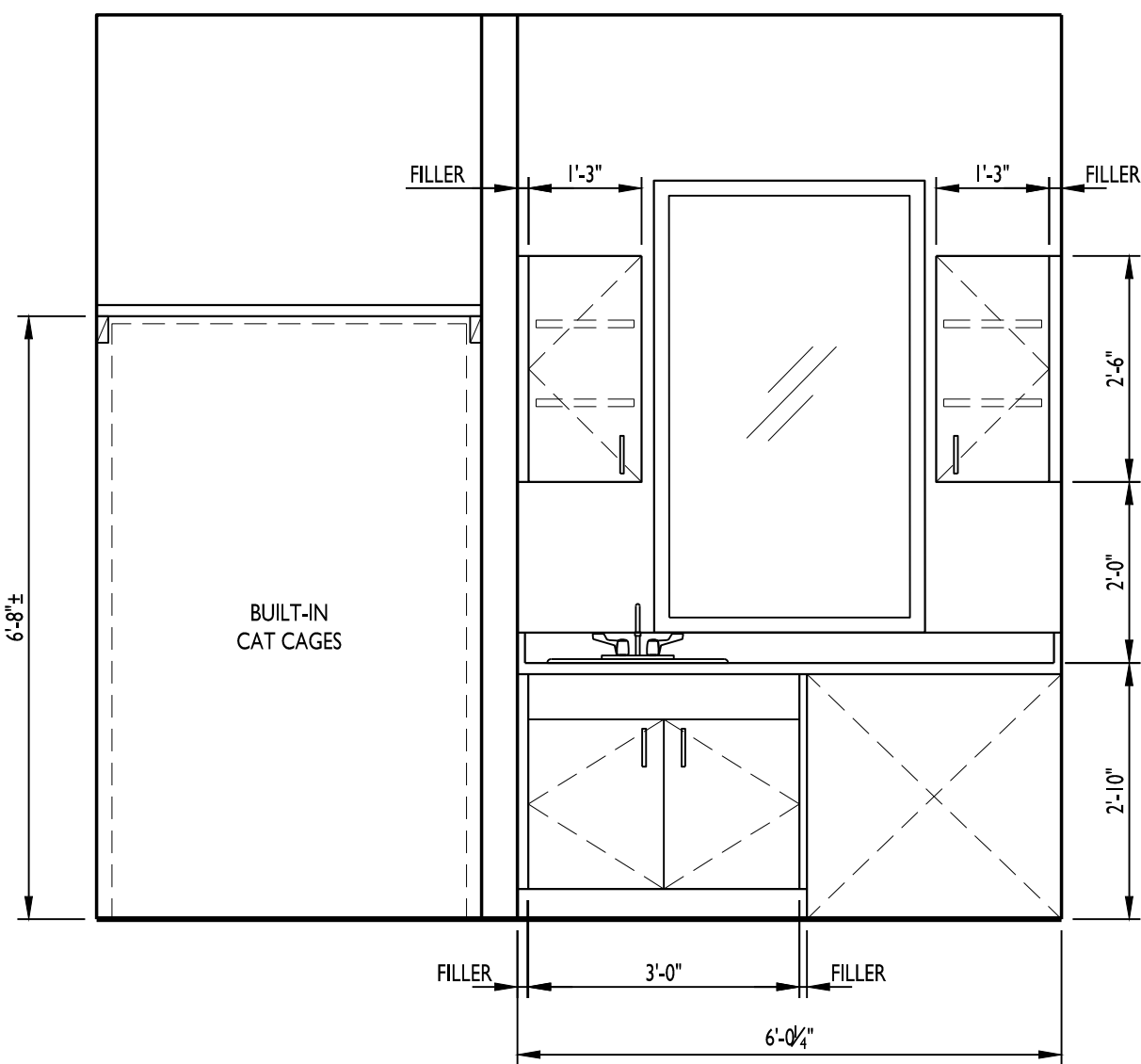
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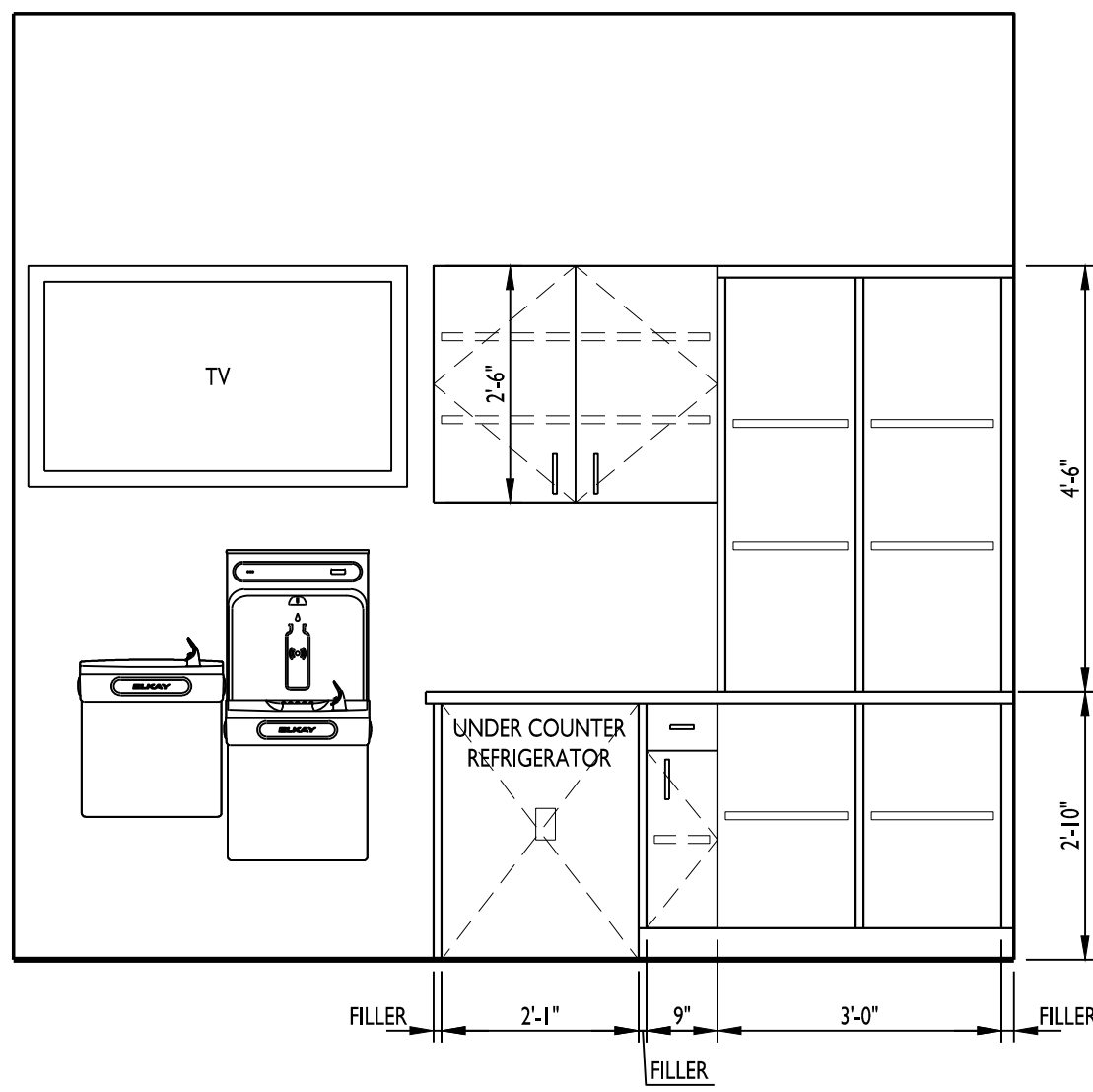
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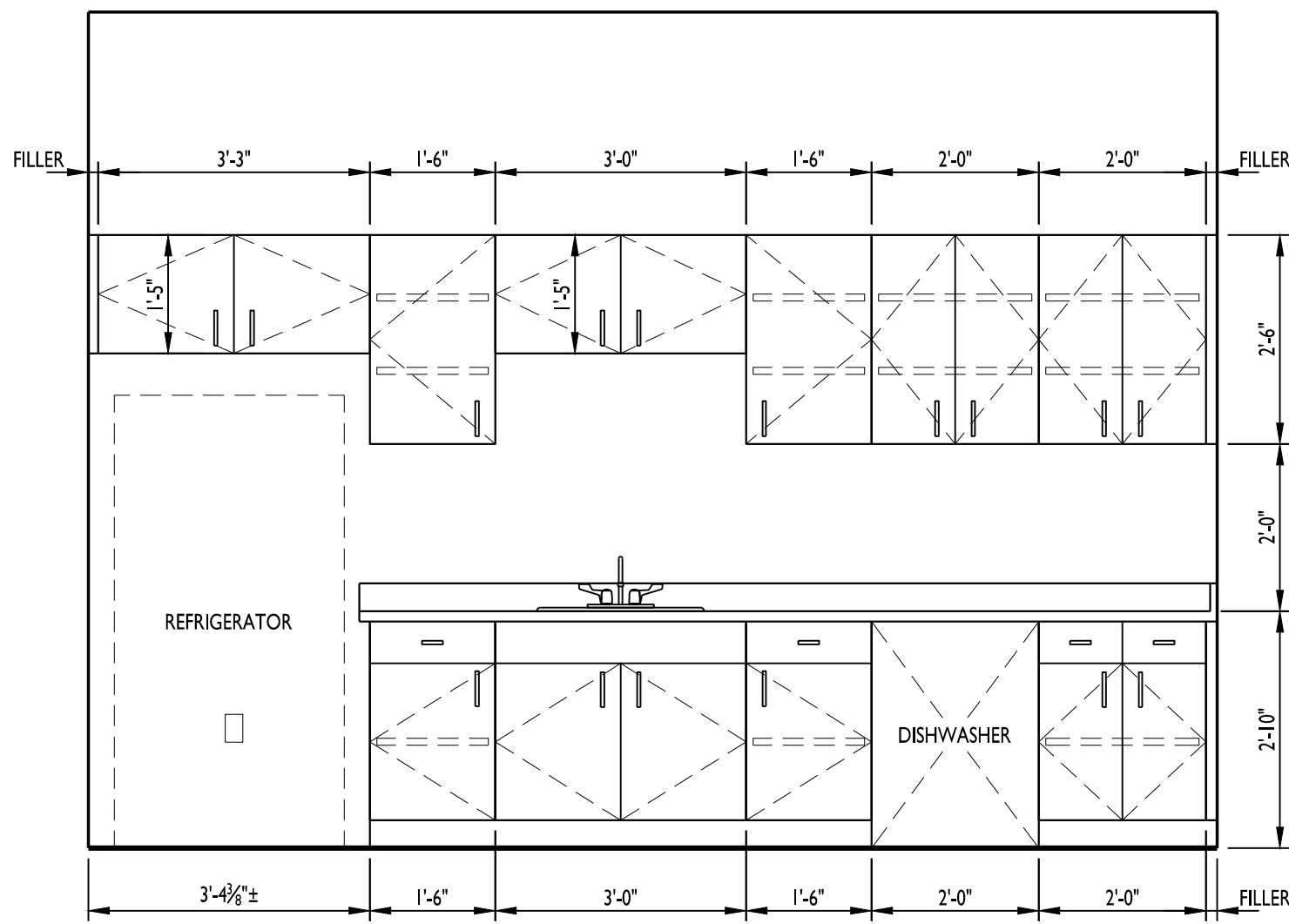
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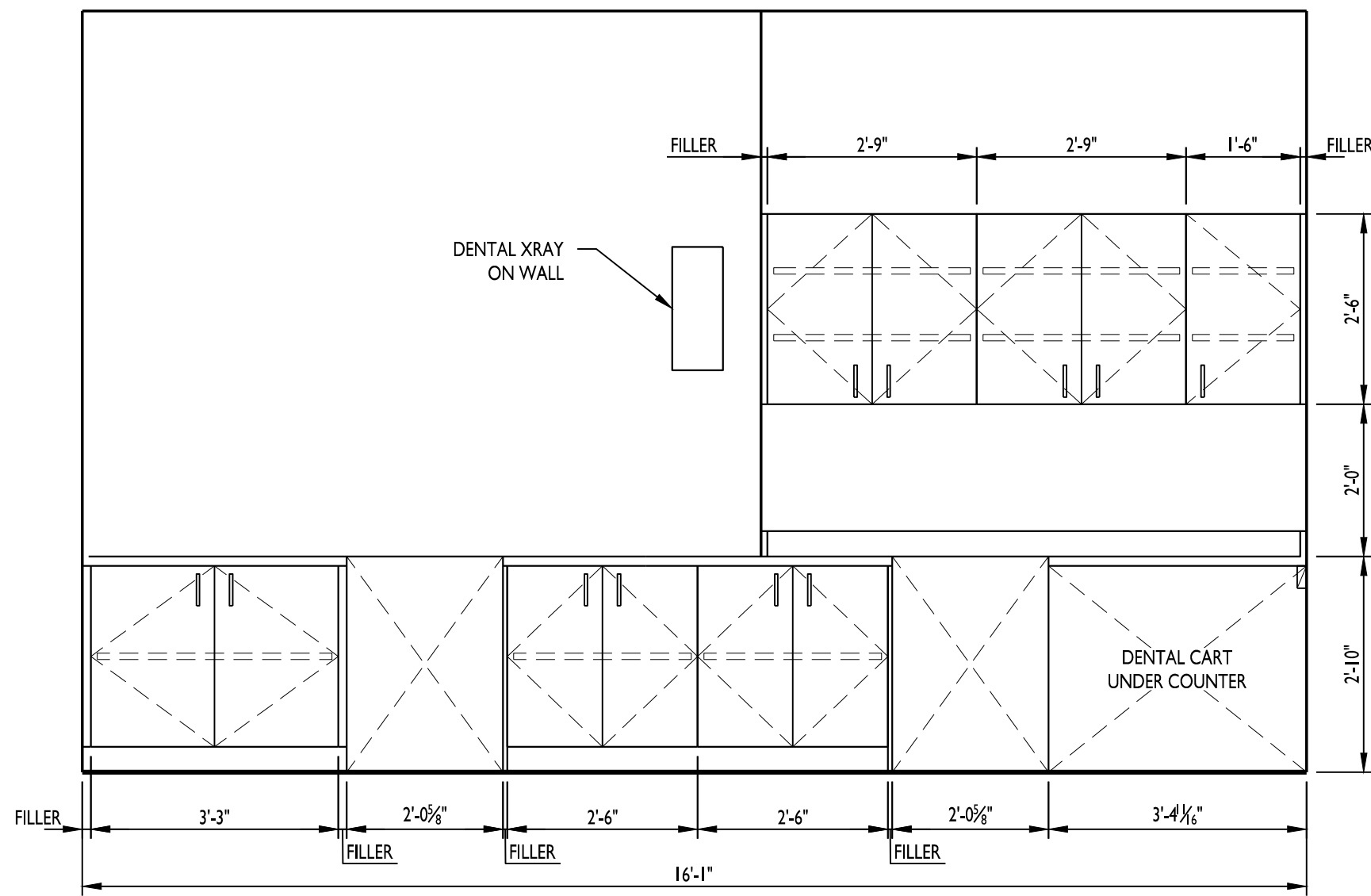
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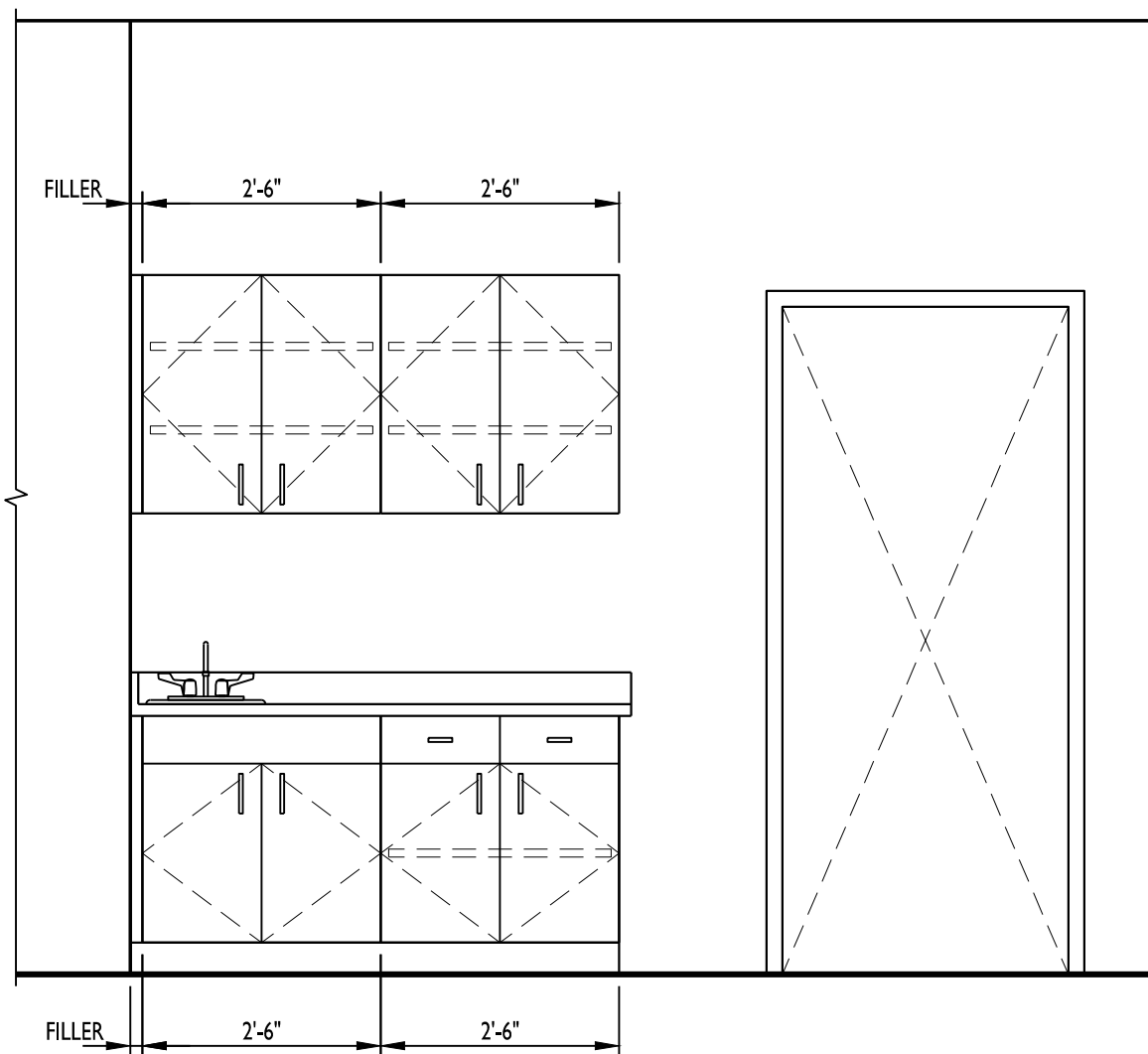
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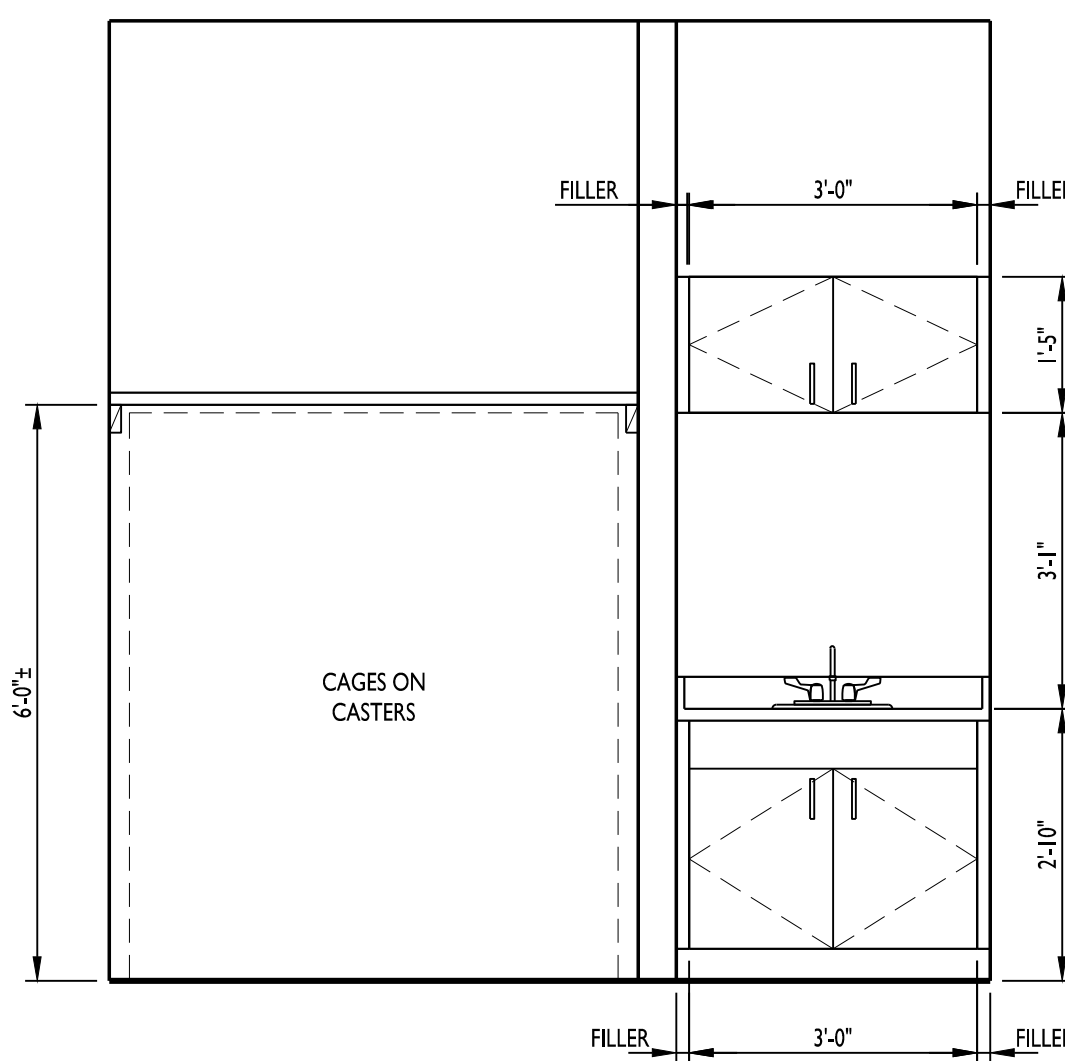
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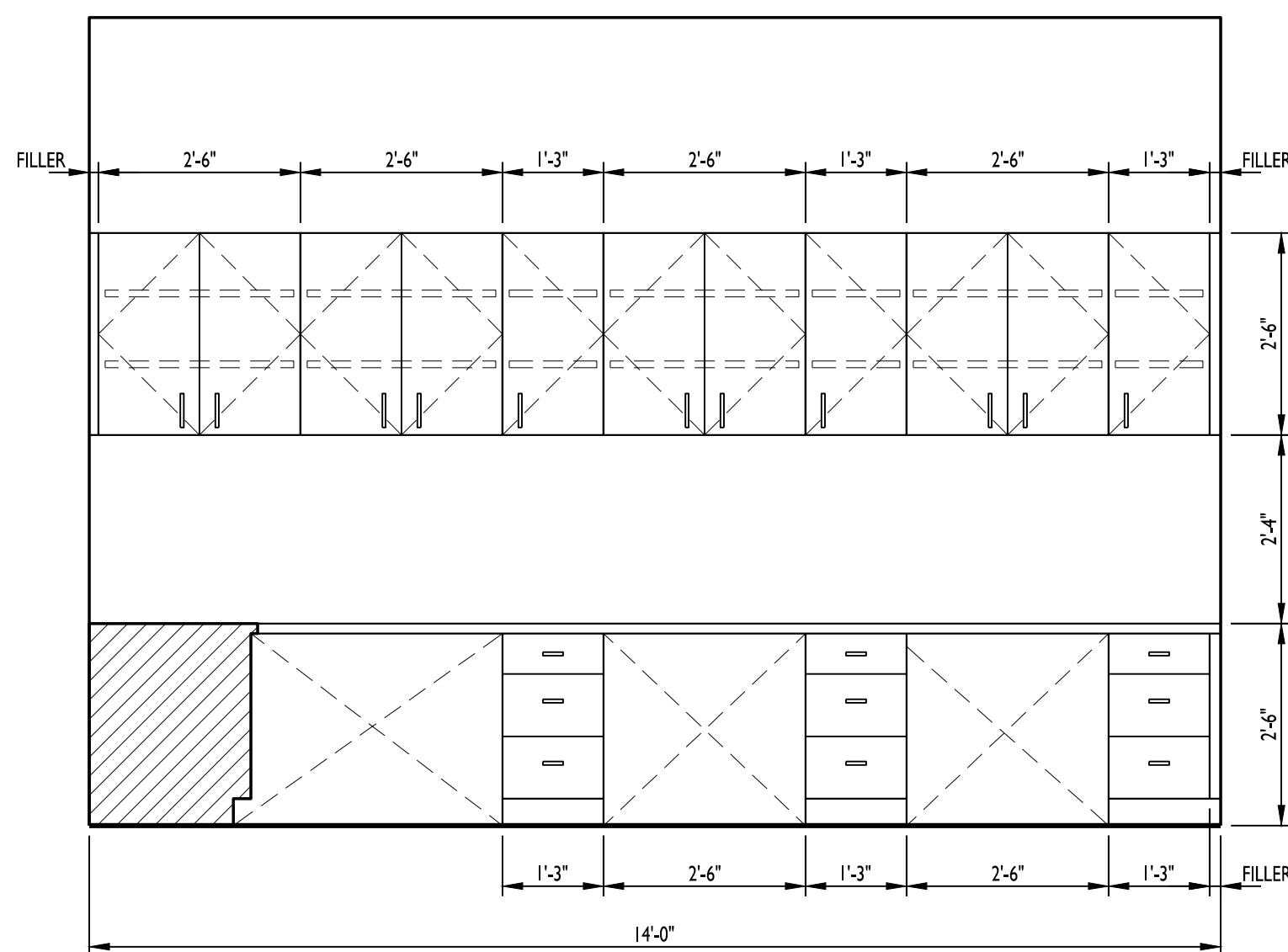
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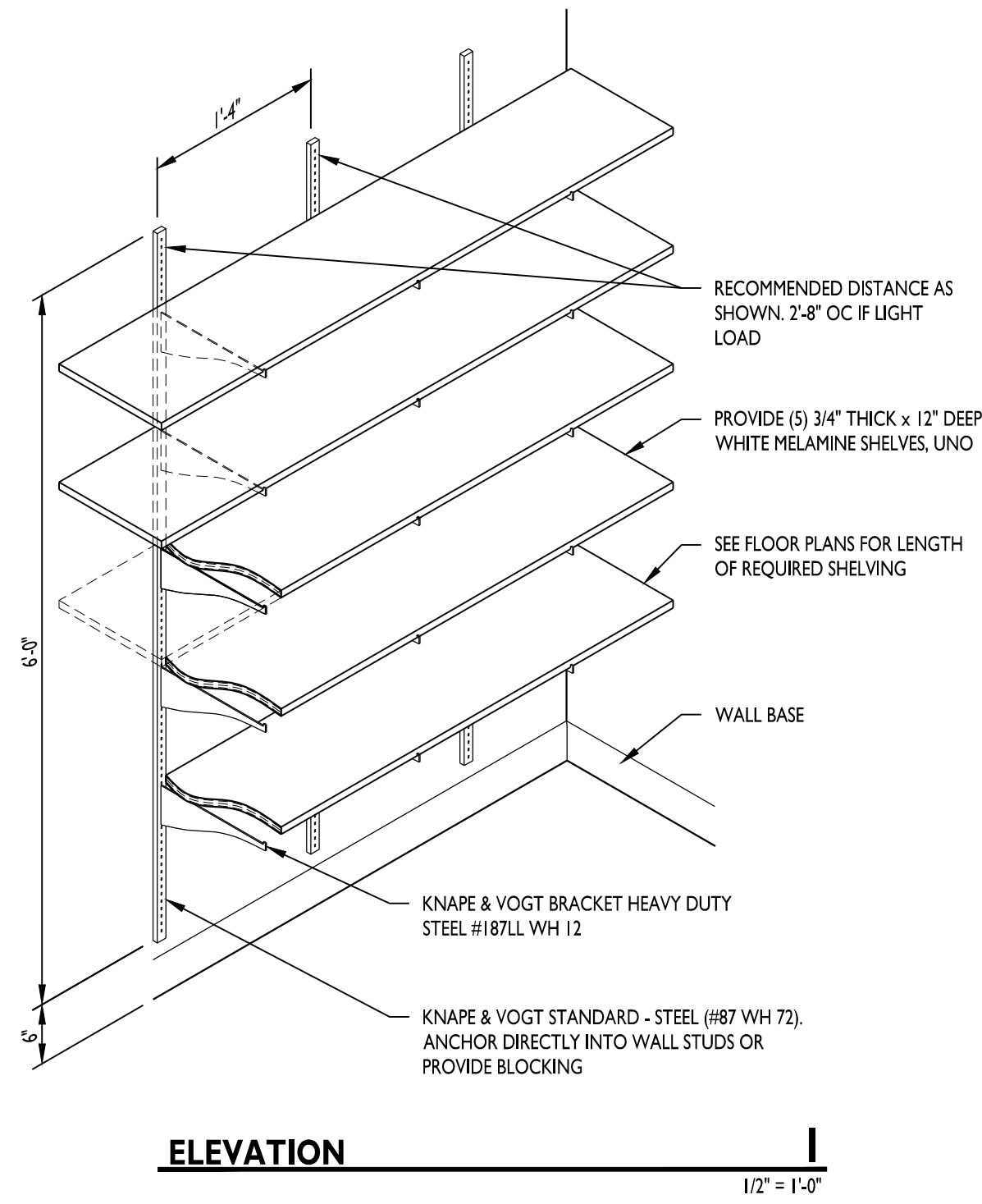
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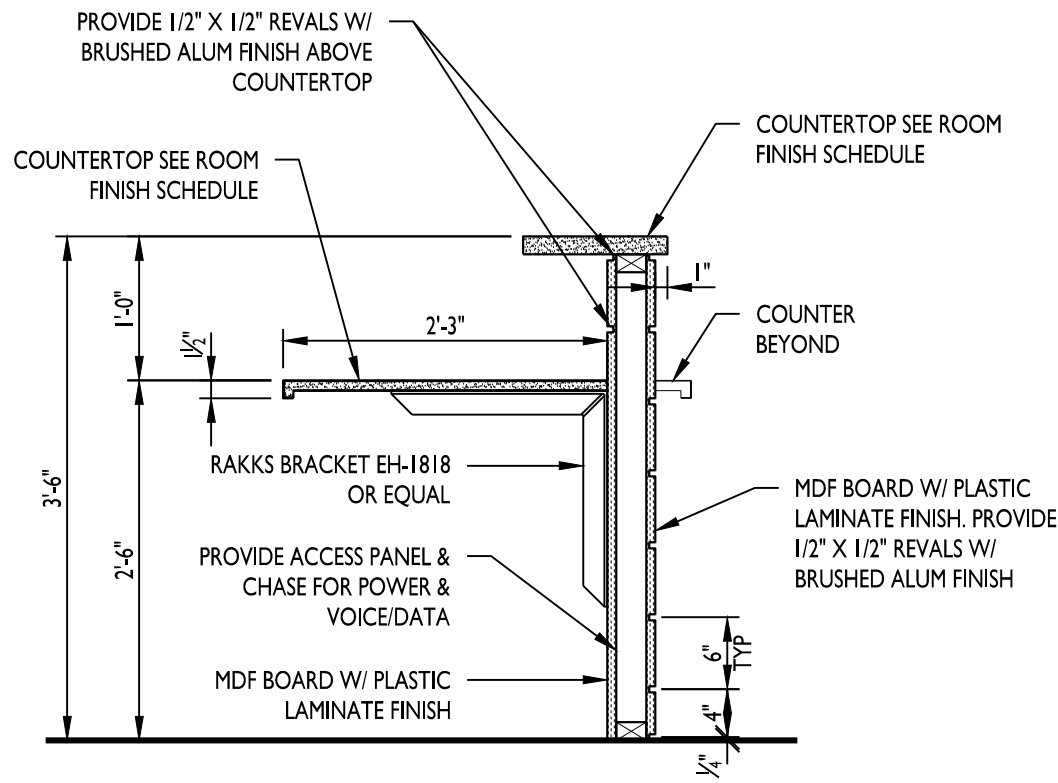
ELEVATION 6
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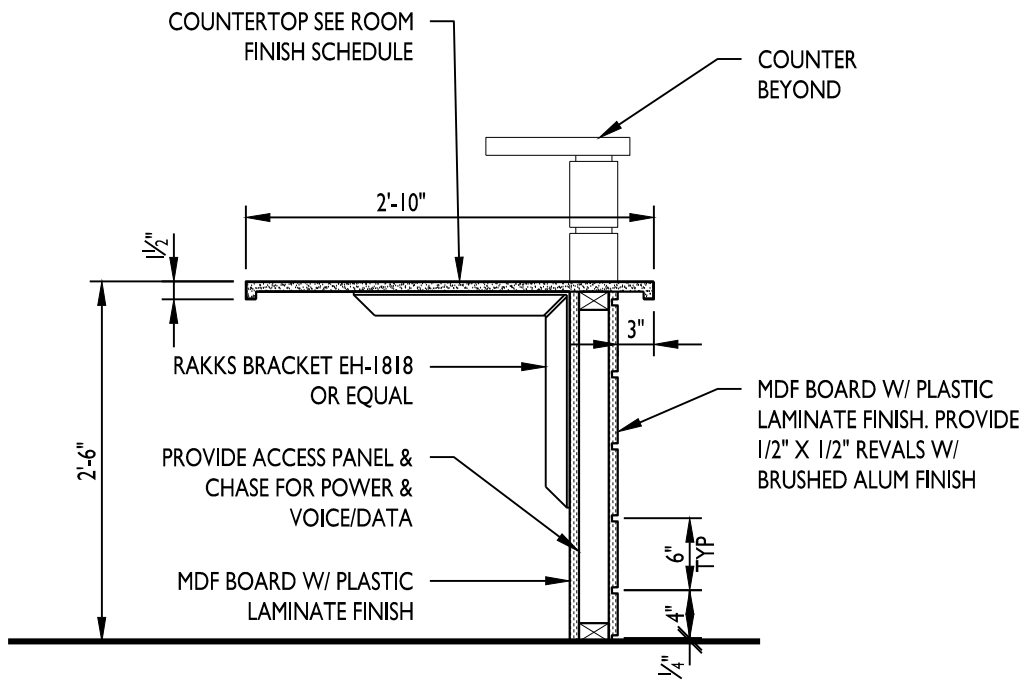
ELEVATION 3
1/2" = 1'-0"



ELEVATION 1
1/2" = 1'-0"



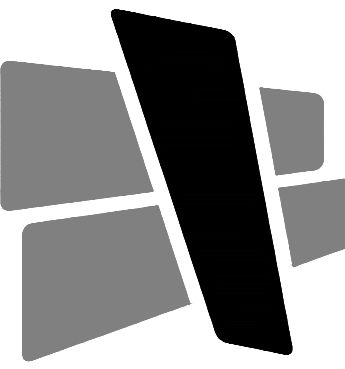
ELEVATION 2
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ELEVATION 3
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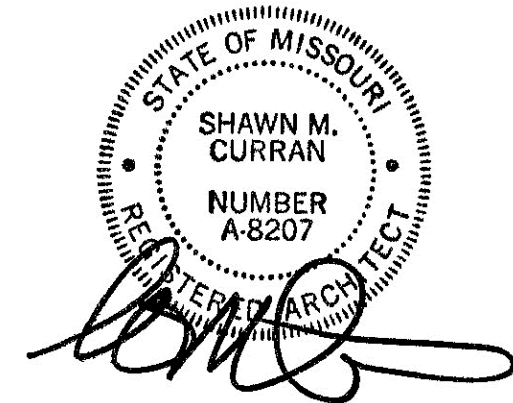


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ARCHITECTURE

5719 LAWTON LOOP E. DR. #212
INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
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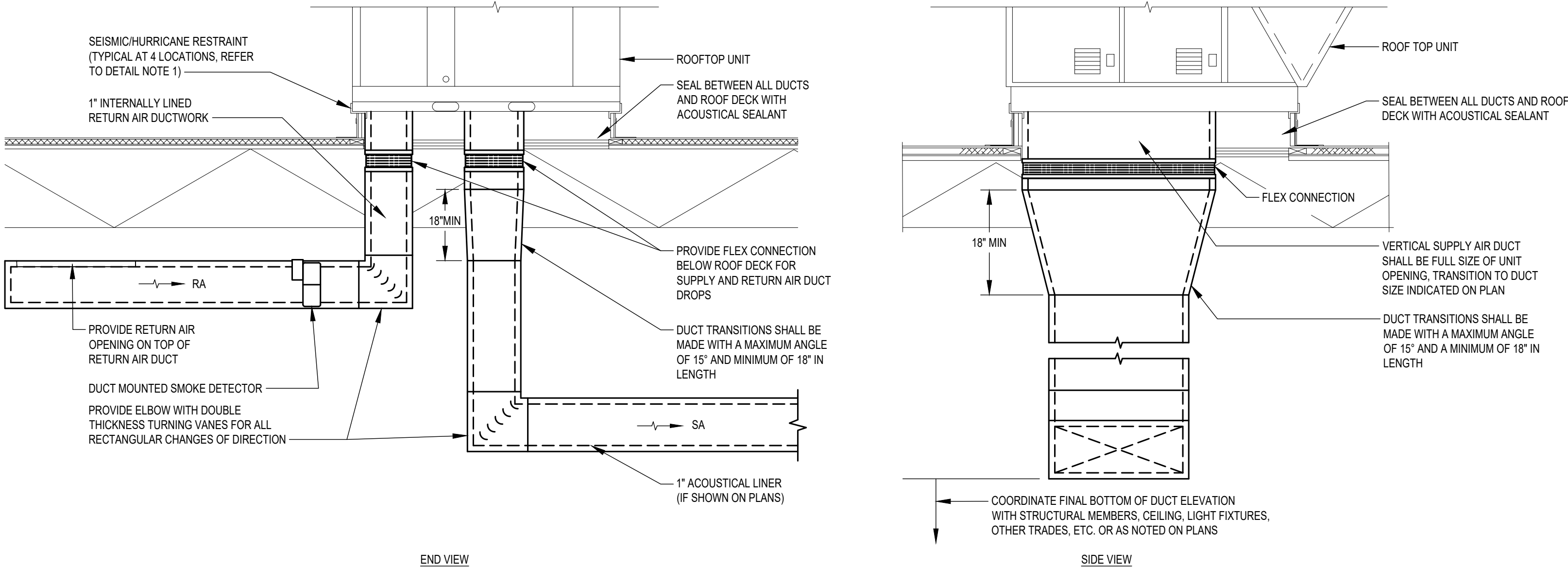
ISSUE DATES

PERMIT SET 04.01.21

210095

CASEWORK SECTIONS
& DETAILS

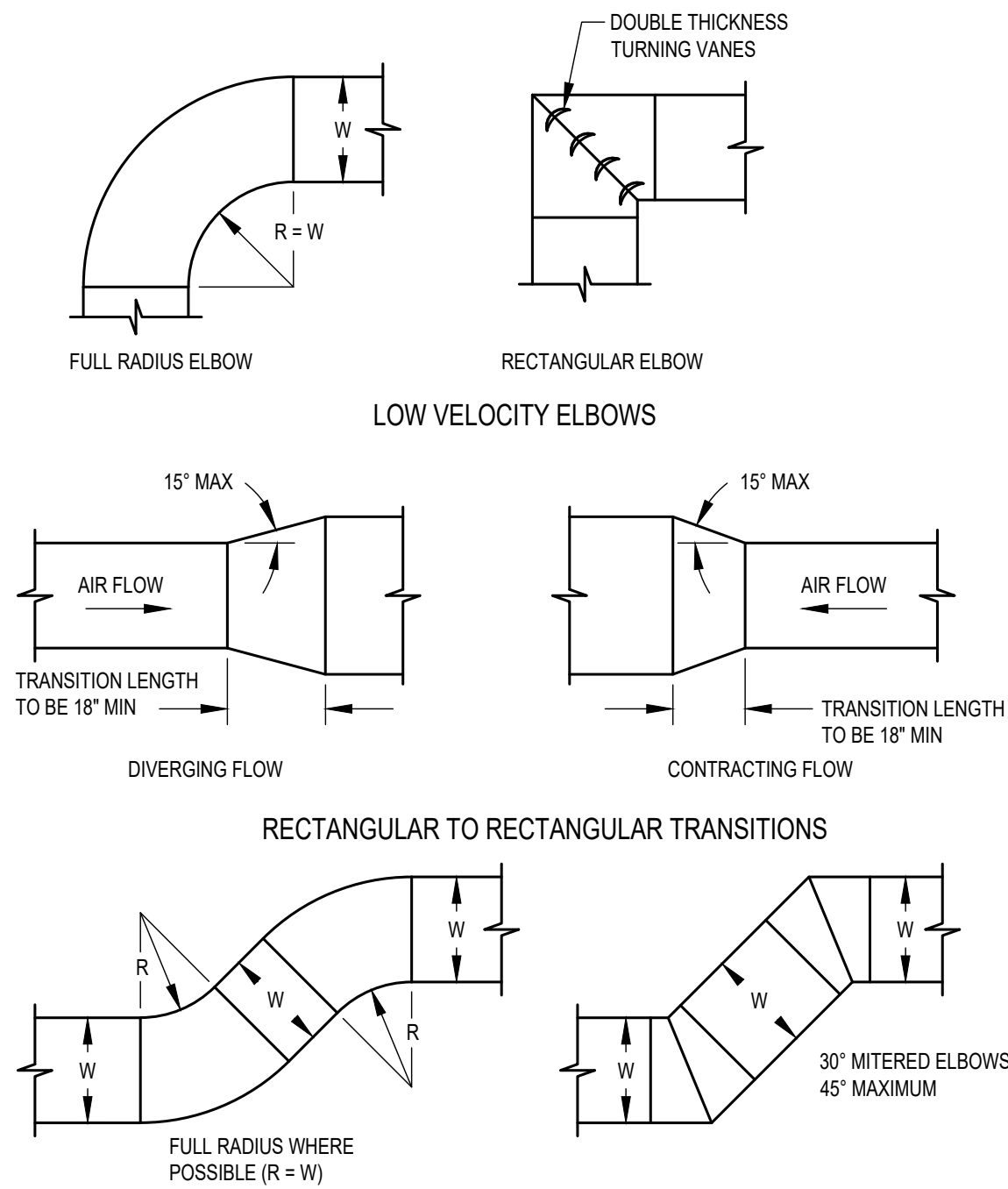
A823



DETAIL NOTES

1. PROVIDE SEISMIC/HURRICANE RESTRAINTS WHEN REQUIRED BY CODE. SEISMIC/HURRICANE RESTRAINTS SHALL BE FURNISHED BY ROOFTOP UNIT MANUFACTURER AND INSTALLED BY CONTRACTOR. RESTRAINTS SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO EACH CORNER OF ROOF CURB.

1	RTU SECTION DETAIL
M002	SCALE: NONE



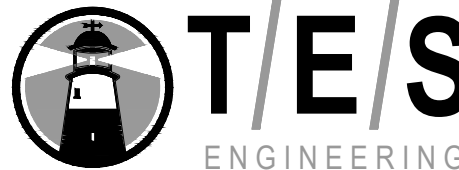
2	LOW VELOCITY TRANSITIONS AND OFFSETS
M002	SCALE: NONE



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ARCHITECTURE

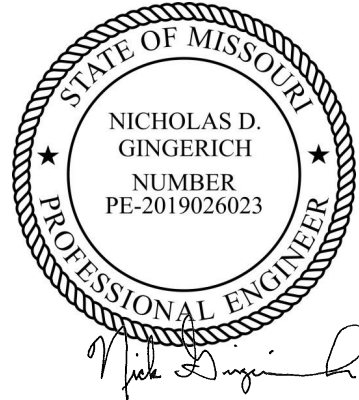
5719 LAWTON LOOP E. DR.
#212 INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

DRAWN BY: PDN CHECKED BY: JRE



25760 First Street
Cleveland, OH 44145
P 440 871 2410
F 440 871 7954
tesengineering.com

CERTIFICATION



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PROJECT INFORMATION

LEE'S SUMMIT ANIMAL
HOSPITAL NORTH

810A NW COMMERCE DR
LEE'S SUMMIT, MO
64086

ISSUE DATES

PERMIT SET	04.01.21
PERMIT REVIEW COMMENTS	04.21.21

210095

MECHANICAL DETAILS

M002



CURRAN
ARCHITECTURE

5719 LAWTON LOOP E. DR.
#212 INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

DRAWN BY: PDN CHECKED BY: JRE



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MECHANICAL SCHEDULES

M003

ROOFTOP HVAC UNIT SCHEDULE																								
TAG	SERVICE	MFR	MODEL No.	NOMINAL TONS	EER	MIN OA (CFM)	SUPPLY FAN DATA				DX COOLING DATA					GAS HEATING DATA				UNIT CHARACTERISTICS				NOTES/ACCESSORIES
							AIR FLOW (CFM)	ESP (IN WC)	MOTOR (HP)	FAN (RPM)	EAT 'DB'/WB (°F)	LAT 'DB'/WB (°F)	SENSIBLE (MBH)	TOTAL (MBH)	COOLING STAGES	EAT/LAT (°F)	INPUT (MBH)	OUTPUT (MBH)	HEATING STAGES	VOLTAGE (V-φ-Hz)	UNIT MCA	UNIT MOCp	OPERATING WEIGHT (LBS)	
RTU-1	FRONT	TRANE	YSC092	7.5	11.2	0	2800	1.0	1.0	915	76.8/64.2	56.6/54.4	67.4	87.0	2	52.6/93.0	150/105	120/84	2	208-3-60	39.0	50.0	1182	1-19
RTU-2	BACK	TRANE	YSC092	7.5	11.2	0	2750	1.0	3.0	921	78.5/65.6	57.8/55.7	67.6	88.7	2	47.3/101.4	200/140	160/112	2	208-3-60	45.0	50.0	1182	1-19

* OUTSIDE AIR FOR VENTILATION IS PROVIDED BY ERV INTO THE RTU'S RETURN AIR SYSTEM.

NOTES/ACCESSORIES

- 101" CONDENSING TEMPERATURE
- REFRIGERANT - R410A
- REFERENCE DRYBULB ECONOMIZER
- POWER EXHAUST
- 24" INSULATED ROOF CURB
- UNIT MOUNTED HACR BREAKER DISCONNECT
- UNPOWERED GFCI RECEPTACLE
- BELT DRIVE
- SUPPLY FAN VFD WITH SINGLE ZONE VAV CONTROLLER
- THROUGH THE BASE ELECTRICAL AND GAS
- HAIL GUARD - WITH TOOL LESS REMOVAL
- PROGRAMMABLE SEVEN DAY AUTO CHANGE OVER THERMOSTAT
- HINGED ACCESS DOORS
- ONCE THE RTU'S ARE OPERATIONAL - PROVIDE 2" MERV 8 FILTERS. INSPECT FILTERS DAILY. REPLACE AS NEEDED BUT NOT LONGER THAN 7 DAYS UNTIL UNIT IS ADJUSTED BY BALANCE CONTRACTOR. AT THE DISCRETION OF THE TENANT CONSTRUCTION REPRESENTATIVE THIS FILTER REPLACEMENT CAN BE EXTENDED PAST THE 7 DAY LIMIT. ALL UN-USED FILTERS TO REMAIN ON SITE FOR FUTURE USE BY TENANT. NEVER OPERATE THE RTU(S) IN COOLING DURING ANY SANDING OR DEMOLITION OR IF ANY TYPE OF FINE PARTICULATE COULD BE AIR BORNE. ALL RETURN AIR GRILLES OPENING IN RETURN AIR DUCTWORK SHALL BE COVERED WITH CHEESE CLOTH OR A THROW AWAY FILTER (CHEAP CUT TO FIT FILTER ROLL) UNTIL UNITS ARE ADJUSTED BY THE BALANCING CONTRACTOR. REMOVE THIS CHEESE CLOTH FILTER UPON TESTING BY BALANCE CONTRACTOR.
- MICRO-PROCESSOR CONTROLS
- 5 YEAR PARTS AND LABOR COMPRESSOR WARRANTY
- STAINLESS STEEL HEAT EXCHANGER WITH STAGED HEAT
- 10 YEAR PARTS WARRANTY ON HEAT EXCHANGER
- APPROVED ALTERNATES: CARRIER, AAO, YORK/JOHNSON CONTROLS, AND LENNOX

ENERGY RECOVERY VENTILATOR SCHEDULE																						
TAG	SERVICE	MFR	MODEL No.	FAN DATA						SUMMER PERFORMANCE DATA				WINTER PERFORMANCE DATA				UNIT CHARACTERISTICS				NOTES/ACCESSORIES
				SUPPLY AIR FLOW (CFM)	SUPPLY ESP (IN WC)	SUPPLY FAN MOTOR (HP)	EXHAUST AIR FLOW (CFM)	EXHAUST ESP (IN WC)	EXHAUST FAN MOTOR (HP)	OA EAT (°F)	SUPPLY LAT (°F)	RETURN EAT (°F)	EXHAUST LAT (°F)	OA EAT (°F)	SUPPLY LAT (°F)	RETURN EAT (°F)	EXHAUST LAT (°F)	VOLTAGE (V-φ-Hz)	UNIT MCA	UNIT MOCp	OPERATING WEIGHT (LBS)	
ERV-1	RTU-1,2	GREENHECK	ECV-40-FM-H	3250	0.50	3/4	2850	1.0	1	96.0/75.0	81.6/68.2	72.0/59.9	88.1/68.9	-1.0/-2.5	37.2/30.8	68.0/52.7	22.9/22.7	208-3-60	17.4	20	1049	1-12

NOTES/ACCESSORIES

- UL LISTED
- OUTDOOR INSTALLATION
- POLYMER WHEEL WITH SILICA GEL DESICCANT
- HINGED ACCESS PANELS
- DIRECT DRIVE SUPPLY AND EXHAUST FAN
- SINGLE POINT POWER
- NON-FUSED DISCONNECT SWITCH
- ENERGY WHEEL ECONOMIZER CONTROL - STOP WHEEL, ENTHALPY BASED (18 BTU/LB)
- ROTATION SENSOR
- ROOF CURB
- MOTORIZED OUTSIDE AIR DAMPER
- ALTERNATES APPROVED BY ENGINEER

ELECTRIC UNIT HEATER SCHEDULE												
TAG	SERVICE	MFR	MODEL No.	MOUNTING	ELECTRIC HEATING DATA			FAN DATA	UNIT CHARACTERISTICS			NOTES/ACCESSORIES
					INPUT (W)	OUTPUT (BTU/H)	HEATING STAGES	AIR FLOW (CFM)	VOLTAGE (V-φ-Hz)	UNIT AMPS	OPERATING WEIGHT (LBS)	
EUH-1	CORRIDOR	QMARK	CWH3150F	VERTICAL	1500	5118	1	100	120-1-60	12.5	25	1-5

NOTES/ACCESSORIES

- ELECTRIC DISCONNECT
- INTEGRAL THERMOSTAT
- HIGH LIMIT SWITCH
- WALL RECESSED MOUNTING BRACKET
- MARKEL, BERKO, TRANE ACCEPTABLE ALTERNATE MANUFACTURES

EXHAUST FAN SCHEDULE										
TAG	SERVICE	MFR	MODEL No.	AIRFLOW (CFM)	ESP (IN WC)	MOTOR (W)	SONES	VOLTAGE (V-φ-Hz)	OPERATING WEIGHT (LBS)	NOTES/ACCESSORIES
TF-1	108 IT	GREENHECK	SP-A390-VG	200	0.3	27	2.5	120-1-60	27	1-5
EF-1	128 ISO	GREENHECK	SP-A390-VG	250	0.3	38	3.0	120-1-60	27	1-4,8
EF-2	126A TANK	SOLER & PALAU	SWF-100	100	0.25	57	-	120-1-60	28	1-3,7,8

NOTES/ACCESSORIES

- DISCONNECT SWITCH - NEMA 1- FACTORY MOUNTED & WIRED
- AMCA SEAL & U.L. LISTED
- FAN SPEED CONTROLLER - FACTORY MOUNTED & WIRED
- HANGING VIBRATION ISOLATORS
- LINE VOLTAGE REVERSE ACTING COOLING THERMOSTAT WITH REMOTE TEMP SENSOR - WIRED TO STAT FAN ON TEMP. RISE ABOVE 80°F.
- CONTROLLED BY SWITCH
- GALVANIZED STEEL WITH BAKED ENAMEL COATING
- GRAVITY BACK DRAFT DAMPER

AIR DISTRIBUTION SCHEDULE							
TAG	SERVICE	MOUNTING	MFR	MODEL No.	MODULE/ DIFFUSER SIZE	FRAME/BORDER	NOTES/ACCESSORIES
S1	SUPPLY	CEILING	TITUS	OMNI	24" X 24"	#3 LAY-IN	1,2
R1	RETURN	CEILING	TITUS	350RL	NECK SIZE + 2"	#3 LAY-IN	1,3
E1	EXHAUST	CEILING	TITUS	350RL	NECK SIZE + 2"	#3 LAY-IN	1,3
E2	EXHAUST	CEILING	TITUS	350RL	NECK SIZE + 2"	#3 LAY-IN	1,3,4
T1	TRANSFER	WALL	TITUS	350RL	NECK SIZE + 2"	#1 SURFACE	1
T2	TRANSFER	CEILING	TITUS	350RL	NECK SIZE + 2"	#3 LAY-IN	1,3

NOTES/ACCESSORIES

- FINISH - WHITE POWDER COAT
- SECTORIZING BAFFLE (SB) AS REQUIRED BY DIRECTIONAL ARROWS ON PLAN, OTHERWISE FOUR (4) WAY BLOW
- SQUARE TO ROUND NECK ADAPTER. REFER TO PLANS FOR NECK SIZE AND DUCT SIZE
- RAPID MOUNT FRAME

OUTSIDE AIR SCHEDULE													
ZONE DATA										SYSTEM DATA			
ZONE NAME	FLOOR AREA (SF)	REQUIRED OUTSIDE AIR (CFM/SF)	OCCUPANCY	REQUIRED OUTSIDE AIR (CFM/PERSON)	BREATHING ZONE OUTSIDE AIR (CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS	REQUIRED OUTSIDE AIR (CFM)	SUPPLY AIR (CFM)	OUTDOOR AIR FRACTION	SYSTEM NAME	SYSTEM VENTILATION EFFICIENCY	REQUIRED OUTSIDE AIR (CFM)	DELIVERED OUTSIDE AIR (CFM)
100 WAITING	429	0.06	22	7.50	191	0.8	239	900	0.266	RTU-1	0.860	476	1400
101 RECEPTION	156	0.06	5	5.00	34	0.8	43	250	0.172				
102 HALL	110	0.06	0	0.00	7	0.8	9	100	0.090				
103 EXAM #1	85	0.18	1	7.50	22.5	0.8	29	200	0.145				
104 EXAM #2	100	0.18	1	7.50	25.5	0.8	32	200	0.160				
105 EXAM #3	84	0.18	1	7.50	22.5	0.8	29	150	0.193				
106 HOSP MGR	67	0.06	1	5.00	9	0.8	12	150	0.080				
110 EXAM #4	84	0.18	1	7.50	22.5	0.8	29	150	0.193				
111 HALL	122	0.06	0	0.00	7	0.8	9	50	0.180				
112 EXAM #5	83	0.18	1	7.50	22.5	0.8	29	100	0.290				
113 EXAM #6	82	0.18	1	7.50	22.5	0.8	29	100	0.290				
114 EXAM #7	81	0.18	1	7.50	22.5	0.8	29	100	0.290				
109 TOILET	60	0.00	0	0.00	0	0.8	0	50	0.000				
115 LAB/RX	115	0.18	2	7.50	36	0.8	45	150	0.300				
116 FOOD PREP	274	0.06	2	5.00	26	0.8	33	150	0.220				
117 LAUNDRY/STOR	97	0.12	0	0.00	12	0.8	15	150	0.100	RTU-2	1.0	395	1850
118 DOGS	161	0.18	2	7.50	44	0.8	55	150	0.367				
119 XRAT/ULTRASOUND	109	0.18	2	7.50	35	0.8	44	150	0.293				
120 TREATMENT	276	0.18	3	7.50	72.5	0.8	91	150	0.607				
121 SURGERY	230	0.18	3	7.50	63.5	0.8	80	400	0.200				
122 DOCTORS	100	0.06	1	5.00	11	0.8	14	350	0.040				
123 CHARTING	97	0.06	1	5.00	11	0.8	14	150	0.093				
124 DENTAL	164	0.18	2	7.50	45	0.8	57	150	0.380				
125 BREAK	170	0.06	1	5.00	15	0.8	19	350	0.054				
127 HALL	87	0.06	0	0.00	5	0.8	7	100	0.070				
128 ISO	101	0.12	0	0.00	12	0.8	15	100	0.150				
129 WATER	59	0.12	0	0.00	7	0.8	9	100	0.090				
129 TOILET	54	0.00	0	0.00	0	0.8	0	100	0.000				

NOTES

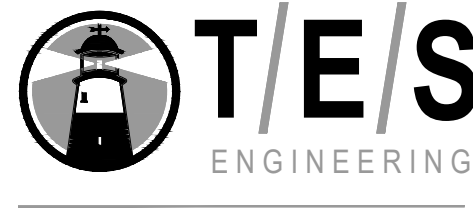
- SPACE OUTSIDE AIR REQUIREMENTS BASED ON IMC 2018



CURRAN ARCHITECTURE

5719 LAWTON LOOP E. DR.
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O :: 317 . 288 . 0681
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MECHANICAL SPECIFICATIONS

M004

I. GENERAL PROVISIONS

A. GENERAL CONDITIONS, CODES & STANDARDS

- GENERAL CONDITIONS OF THE CONTRACT FOUND IN THE ARCHITECTURAL DRAWINGS, GENERAL AND SPECIAL CONDITIONS OF THE AMERICAN INSTITUTE OF ARCHITECTS (AIA) AND ANY OF THE OWNER'S GENERAL REQUIREMENTS SHALL APPLY UNLESS NOTED OTHERWISE.
- REFER TO THE GENERAL CONDITIONS ON THE ARCHITECTURAL DOCUMENTS AND THE GENERAL AND SPECIAL CONDITIONS OF THE AIA FOR ADDITIONAL REQUIREMENTS REGARDING: SAFETY, COORDINATION & COOPERATION, WORKMANSHIP, PROTECTION, CUTTING AND PATCHING, DAMAGE TO OTHER WORK, PRELIMINARY OPERATIONS, STORAGE, ADJUSTMENTS, CLEANING, ETC.
- ALL WORK SHALL BE IN CONFORMANCE WITH ALL LOCALLY ENFORCED, FEDERAL, STATE AND LOCAL CODES AND ORDINANCES INCLUDING ANY SPECIAL THE OWNER REQUIREMENTS IN ADDITION TO THOSE SPECIFIED.
- CONTRACTOR SHALL PAY FOR AND OBTAIN ALL NECESSARY LICENSES, PERMITS AND INSPECTIONS REQUIRED TO PROCEED WITH THE WORK. THIS SHALL INCLUDE ALL REQUIRED COORDINATION WITH THE LOCAL UTILITY COMPANIES AND THEIR ASSOCIATED FEES OR COSTS.

B. SCOPE OF WORK

- THIS CONTRACT SHALL INCLUDE THE FURNISHING, INSTALLING, CONNECTING, AND OPERATION OF ALL EQUIPMENT WHICH IS A PART OF THE MECHANICAL SYSTEMS AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY SIMILAR INSTALLATIONS. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK AND WHICH IS USUALLY INCLUDED IN WORK OF A SIMILAR CHARACTER SHALL BE FURNISHED AND INSTALLED UNDER THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED TO PROVIDE THE OWNER A COMPLETE, CODE APPROVED AND OPERATIONAL MECHANICAL SYSTEM. CAREFULLY READ SPECIFICATION FOR ALL PARTS OF THE WORK SO AS TO BECOME FAMILIAR WITH ALL TRADES' WORK SCOPE. CONSULT WITH OTHER TRADES TO INSURE PROPER LOCATIONS AND AVOID INTERFERENCES. ANY CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER BEFORE WORK IS COMMENCED.
- CONTRACTORS SHALL BE HELD TO HAVE EXAMINED THE PREMISES AND SITE SO AS TO COMPARE THEM WITH THE DRAWINGS AND SPECIFICATIONS; NOTE THE EXISTING CONDITIONS AND OTHER WORK THAT WILL BE REQUIRED, AND THE NATURE OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. NO ALLOWANCE SHALL BE MADE TO THE CONTRACTOR BY REASON OF THIS FAILURE TO HAVE MADE SUCH EXAMINATION OR OF ANY ERROR ON HIS PART.
- ALL EXISTING UTILITY AND MECHANICAL SERVICES SHALL BE FIELD VERIFIED. CORRECTIONS TO THE DESIGN AND INSTALLATION SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
- PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF HVAC WORK. ALL CORE DRILLING OR CUTTING OF FIBER RATED FLOORS, SHAFTS, AND WALLS SHALL BE FIESTOPPED PRIOR TO FINISH PATCHING. ALL PENETRATIONS SHALL BE FIRE SEALED TO MATCH THE FIRE RATING OF THE FLOORS, SHAFTS, AND WALLS PENETRATED. THIS CONTRACTOR IS RESPONSIBLE TO COORDINATE OPENINGS IN WALLS AND FLOORS WITH THE GENERAL TRADES CONTRACTOR. THE FINAL LOCATIONS AND SIZES OF ALL DUCT, PIPE AND LOUVER OPENINGS SHALL BE PROVIDED BY THIS CONTRACTOR.
- THIS CONTRACT SHALL ALSO INCLUDE ALL LABOR, MATERIALS AND MISCELLANEOUS EXPENSES REQUIRED FOR ALL REQUIRED MECHANICAL DEMOLITION OF THE EXISTING AREAS BEING RENOVATED.
 - THE DEMOLITION SHALL CONSIST OF THE COMPLETE REMOVAL (PROPERLY DISPOSED OFF SITE UNLESS OTHERWISE NOTED) OF ALL MECHANICAL EQUIPMENT, PIPING, DUCTWORK, MATERIALS, ETC. NOT REQUIRED IN THE FINAL DESIGN AND INSTALLATION OF THE MECHANICAL HVAC SYSTEMS FOR THE NEW RENOVATED AREAS.
 - ALL UNUSED SERVICES SHALL BE REMOVED BACK TO THEIR RESPECTIVE MAIN AND CAPPED OR IF THE MAIN IS NOT REQUIRED, THE MAIN SHALL BE REMOVED IN ITS ENTIRETY.
 - COORDINATE ALL DEMOLITION WITH THE ARCHITECTURAL DOCUMENTS AND THE ARCHITECT AND THE OWNER'S GENERAL REQUIREMENTS.
- ALL WORK INCLUDING, BUT NOT LIMITED TO PARTS, MATERIAL, EQUIPMENT AND LABOR SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY THE ENGINEER AND OWNER. WHERE AN EQUIPMENT MANUFACTURER HAS A WARRANTY THAT EXCEEDS ONE YEAR, THAT WARRANTY PERIOD SHALL APPLY TO THIS PROJECT.

C. DOCUMENTS

- THE DRAWINGS ARE DIAGRAMMATIC, ALL WORK SHALL BE PERFORMED AS INDICATED ON THE DRAWINGS UNLESS EXISTING CONDITIONS OR COORDINATION ISSUES REQUIRE CHANGES. THESE CHANGES SHALL BE MADE WITH NO ADDITIONAL COST TO THE OWNER.
- ANY INCIDENTAL ITEMS OR LABOR, ETC. NOT INCLUDED IN THE SPECIFICATIONS OR THE DRAWINGS BUT REASONABLY IMPLIED AS NECESSARY FOR THE COMPLETE INSTALLATION OF ALL APPARATUS SHALL BE INCLUDED IN BID.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED EVEN THOUGH NOT MENTIONED IN BOTH.
- IF ERRORS ARE FOUND IN THE DRAWINGS OR SPECIFICATIONS OR DISCREPANCIES OCCUR BETWEEN THE SAME, OR BETWEEN THE FIGURES ON THE DRAWINGS, AND THE SCALE OF SAME OR BETWEEN THE LARGER AND SMALLER DRAWINGS, OR IN THE DESCRIPTIVE MATTER ON THE DRAWINGS SHALL BE REFERRED TO THE OWNER FOR REVIEW AND FINAL DECISION PRIOR TO THE BID DUE DATE.
- THE BIDDING OF THIS WORK WILL CONTEMPLATE THE USE OF EQUIPMENT AND MATERIALS EXACTLY AS SPECIFIED HEREIN. WHERE MORE THAN ONE MANUFACTURER IS MENTIONED ANY ONE MAY BE UTILIZED. SUBSTITUTE MANUFACTURERS MAY BE OFFERED ONLY AS AN ALTERNATE TO THE SPECIFIED EQUIPMENT AND MATERIAL AND MUST BE SUBMITTED AS SPECIFIED IN THE ARCHITECTURAL DOCUMENTS.
- MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THE SYSTEMS CAN BE OF ANY RECOGNIZED MANUFACTURE PROVIDED THESE ITEMS MEET MINIMUM STANDARDS AS SET IN THESE SPECIFICATIONS. REFER TO EACH SECTION FOR ANY SPECIFIC REQUIREMENTS.

D. COORDINATION

- CONTRACTOR SHALL LOCATE, IDENTIFY AND PROTECT ANY EXISTING SERVICES WHICH ARE REQUIRED TO BE MAINTAINED OPERATIONAL AND SHALL EXERCISE EXTRA CAUTION IN THE PERFORMANCE OF ALL WORK TO AVOID DISTURBING SUCH FACILITIES. ALL COSTS FOR REPAIR OF DAMAGES TO SUCH SERVICES SHALL BE PAID BY THE CONTRACTOR CAUSING THE DAMAGE.
- EACH CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO OTHER WORK CAUSED BY HIS WORK OR THROUGH THE NEGLIGENCE OF HIS, OR HIS SUB-TRADE'S PERSONNEL. ALL PATCHING, REPAIRING, REPLACEMENT AND PAINTING, ETC. SHALL BE DONE AS DIRECTED BY THE OWNER BY THE CRAFTSMEN OF THE TRADES INVOLVED. THE COSTS OF SUCH WORK SHALL BE PAID BY THE CONTRACTOR CAUSING THE DAMAGE.

E. METHODS

- EQUIPMENT, PIPING, DUCTWORK, ETC. SHALL NOT BE SUPPORTED FROM ANY CEILINGS, OTHER PIPING, CONDUIT OR DUCTWORK, ROOF DECK, OR JOIST BRIDGING. ITEMS SHALL BE SUPPORTED FROM ACCEPTABLE STRUCTURAL BUILDING COMPONENTS AS DETERMINED BY THE ARCHITECT AND STRUCTURAL ENGINEER.
- ALL ROOF PENETRATIONS, FLASHINGS AND COUNTER FLASHINGS SHALL BE PERFORMED BY THE OWNER'S ROOFING CONTRACTOR AT THE REQUESTING CONTRACTOR'S COST.

F. SUBMITTALS

- SHOP DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT OF ALL EQUIPMENT AND ACCESSORIES PROVIDED FOR THE PROJECT WHETHER SPECIFIED HEREIN OR ON THE DRAWINGS. REVIEW OF THE SHOP DRAWINGS SHALL BE FOR GENERAL DESIGN CONCEPT AND ADHERENCE WITH THE SPECIFICATIONS. QUANTITY OF SHOP DRAWINGS SUBMITTED SHALL BE AS SPECIFIED BY THE ARCHITECT. SHOP DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR SHOWING LOCATIONS AND MEASUREMENTS FROM COLUMNS OF ALL CONCEALED AND EXPOSED PIPING, DUCTWORK, CONDUIT, EQUIPMENT, ACCESSORIES, ETC., AND SUBMITTED PRIOR TO INSTALLATION. THE OWNER MAY MAKE REPRODUCIBLE COPIES OF THEIR DRAWINGS AVAILABLE FOR USE IN PREPARATION OF SHOP DRAWINGS, HOWEVER THE OWNER SHALL NOT BE HELD RESPONSIBLE FOR NOT CONFIRMING ALL INFORMATION ON THE DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION.
- PROJECT RECORD DOCUMENTS - MAINTAIN AT THE JOBSITE ONE COPY OF ALL CONTRACT DOCUMENTS CLEARLY MARKED AS "PROJECT RECORD COPY". THESE DRAWINGS ARE TO BE MAINTAINED IN GOOD CONDITION, UPDATED DAILY FOR CHANGES ENCOUNTERED AND AVAILABLE AT ALL TIMES FOR INSPECTION BY THE OWNER. DO NOT USE FOR FIELD CONSTRUCTION! PROJECT RECORD DOCUMENTS ARE TO BE KEPT CURRENT WITH EXACT DIMENSIONS OF ALL WORK, EQUIPMENT, PIPING, VALVES, DUCTWORK, ETC. MARK ALL INFORMATION IN RED LINES AND NOTES SO AS TO BE EASILY IDENTIFIED FROM THE BASE DRAWING. UPON COMPLETION OF THE WORK, ONE SET OF THESE DOCUMENTS SHALL BE TURNED OVER TO THE OWNER AS ONE QUALIFICATION FOR FINAL PAYMENT.
- AFTER THE BALANCING AND ACCEPTANCE TESTS ARE COMPLETED AND ACCEPTED BY THE OWNER, THREE COMPLETE SETS OF AS-BUILT DOCUMENTATION SHALL BE PROVIDED. IT SHALL INCLUDE, BUT NOT BE LIMITED TO ACCURATE PLAN DRAWINGS, SYSTEM AND CONTROL SCHEMATICS, SEQUENCE OF OPERATION, WIRING DIAGRAMS AND OPERATION AND MAINTENANCE MANUALS.

II. INSULATION

A. GENERAL

- INSTALLATION SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS, AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES.
- CLEAN AND DRY SURFACES PRIOR TO INSULATING.
- EXTEND INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS, HANGERS AND SIMILAR PENETRATIONS.
- INSULATION JACKET AND FITTING COVER MUST BE PLENUM RATED.
- IT IS ESSENTIAL THAT THE INTEGRITY OF THE VAPOR-BARRIER BE MAINTAINED. SEAL ALL PENETRATIONS OF THE VAPOR BARRIER BY STAPLES, HANGERS OR WHERE OTHERWISE DAMAGED.
- MAINTAIN ACCESS TO BALANCING DAMPERS AND VALVES.
- INSULATION SHALL BE BY OWENS-CORNING, KNAUF, OR MANVILLE.

B. HVAC DUCTWORK

- INTERNALLY INSULATE WITH 1 INCH THICK, 1-1/2# DENSITY ACOUSTICAL INSULATION (AIR SIDE BLACK COATED TO MEET NFPA) ALL DUCTWORK NOTED AS REQUIRING SUCH. INTERNAL INSULATION SHALL BE INSTALLED PER THE REQUIREMENTS OF THE SMACNA GUIDE AND THE MANUFACTURER'S RECOMMENDATIONS. DUCT SIZES NOTED ON DRAWING ARE SHEET METAL DIMENSIONS.
- ALL SUPPLY AND OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 1-1/2 INCH OF 0.75 LB/CU.FT. FIBERGLASS, FOIL BACKED DUCT WRAPPING AND COMPLY WITH ENERGY CODE REQUIREMENTS.
- ALL RETURN AIR DUCTWORK SHALL BE WRAPPED WITH 1-1/2 INCH OF 0.75 LB/CU.FT. FIBERGLASS, FOIL BACKED DUCT WRAPPING AND COMPLY WITH ENERGY CODE REQUIREMENTS.

III. HVAC

A. GENERAL

- THE PROJECT CONSISTS OF INSTALLATION OF NEW HVAC EQUIPMENT AND DUCT SYSTEMS. ALL MECHANICAL EQUIPMENT, DUCTWORK, ETC. MUST BE FIELD VERIFIED FOR EXACT LOCATION PRIOR TO INSTALLATION.

B. PIPING

- INDOOR CONDENSATE PIPING SHALL BE TYPE "L" COPPER CONDENSATE DRAIN FOR THE INDOOR AIR HANDLING UNIT INSTALLED PER THE MANUFACTURER'S REQUIREMENTS AND DETAILS. DRAIN SHALL DISCHARGE INTO AN EXISTING FLOOR DRAIN.
- OUTDOOR CONDENSATE PIPING SHALL BE TYPE "L" COPPER CONDENSATE DRAIN FOR THE ROOFTOP MOUNTED AIR CONDITIONING UNIT, INSTALLED PER THE MANUFACTURERS REQUIREMENTS AND DETAILS. DRAIN SHALL DISCHARGE INTO A ROOF DRAIN.
- REFRIGERATION PIPING SHALL BE COPPER TYPE ACR WITH SILVER BRAZED JOINTS OR INDUSTRY STANDARD "LINE SETS" SPECIFICALLY MANUFACTURED FOR THE APPLICATION. ROUTE PIPING THROUGH ROOF WITH PREFABRICATED PIPE CURBS. SEAL ROOF PENETRATIONS WEATHER TIGHT.

C. DUCTWORK AND AIR DISTRIBUTION

- DUCTWORK ROUND OR RECTANGULAR OR SPIRAL SHALL BE OF GALVANIZED STEEL CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE MANUAL AND THE FOLLOWING PRESSURE / SEAL SCHEDULE.
 - DUCTWORK BETWEEN ROOFTOP UNIT AND ENERGY RECOVERY UNIT - 3" W.G. POSITIVE PRESSURE, SEAL CLASS A
 - OTHER SUPPLY AIR DUCTWORK - 2" W.G. POSITIVE PRESSURE, SEAL CLASS B
 - RETURN DUCTWORK - 2" W.G. NEGATIVE PRESSURE, SEAL CLASS B
 - EXHAUST DUCTWORK - 2" W.G. NEGATIVE PRESSURE, SEAL CLASS A
- ROUND DUCT ELBOWS SHALL BE LONG SWEEP, 1-1/2 TIMES THE CENTERLINE RADIUS UNLESS CLEARANCE IS NOT AVAILABLE AT WHICH TIME MITERED ELBOWS WITH TURNING VANES SHALL BE UTILIZED.
- SPIRAL DUCT AND FITTINGS SHALL BE MANUFACTURED FROM G-60 GALVANIZED STEEL MEETING ASTM-A924 AND A653 REQUIREMENTS.
 - CONSTRUCTION
 - BRANCH CONNECTIONS SHALL BE MADE WITH 90 CONICAL AND 45 STRAIGHT TAPS AS SHOWN ON THE DRAWINGS. BRANCH CONNECTIONS SHALL BE MADE AS A SEPARATE FITTING, FACTORY OR FIELD INSTALLATION OF TAPS INTO SPIRAL DUCT SHALL NOT BE ALLOWED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
 - ELBOWS SHALL BE FABRICATED WITH A CENTERLINE RADIUS OF 1.5 TIMES THE DIAMETER. 90 AND 45 ELBOWS IN DIAMETERS 3 INCH ROUND THROUGH 12 INCH ROUND SHALL BE STAMPED OR PLATED ELBOWS. OTHER ELBOWS SHALL BE OF THE GORED TYPE. CIRCUMFERENTIAL AND LONGITUDINAL SEAMS OF ALL FITTINGS SHALL BE A CONTINUOUS WELD OR SPOT WELDED AND SEALED WITH MASTIC. ALL WELDS SHALL BE PAINTED TO PREVENT CORROSION.
 - FIELD JOINTS FOR ROUND DUCTS UP TO AND INCLUDING 36 INCH DIAMETER AND OVAL DUCTS UP TO AND INCLUDING 41 INCH MAJOR AXIS SHALL BE MADE WITH A 2 INCH SLIP-FIT OR SLIP COUPLING.
 - RECTANGULAR ELBOWS SHALL BE FURNISHED WITH DOUBLE THICKNESS TURNING VANES.
 - TURNING VANES SHALL BE FASTENED WITH A DOUBLE ROW OF SCREWS.
 - FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET OF RTUS, ERVS AND CENTRIFUGAL FANS, INSTALL FLEXIBLE CONNECTIONS WITH 3" WIDE DOUBLE NEOPRENE COATED FLAME RETARDANT, NFPA 90A APPROVED, FIBERGLASS FLEXIBLE CONNECTION. FLEXIBLE CONNECTION TO HAVE A MINIMUM OF 24 GAGE, 3" WIDE SHEET METAL COLLARS PERMANENTLY ATTACHED TO EACH SIDE.
 - MITERED OFFSETS GREATER THAN 30 DEGREES IN EITHER DIRECTION SHALL NOT BE PERMITTED.
 - CHANGES IN DUCT SIZES SHALL BE MADE BY UNIFORM TAPER SECTION WITH A MAXIMUM INCLUDE ANGLE OF DIVERGENCE OF 15 DEGREES.
 - RECTANGULAR BALANCING DAMPERS - RUSKIN MD25 SHALL BE SINGLE BLADE UP TO 6" IN HEIGHT AND 36" IN WIDTH, AND RUSKIN MD35 MULTI-BLADE FOR LARGER SIZES. ALL ROUND BALANCING DAMPERS SHALL BE COMMERCIAL GRADE SINGLE BLADE UP TO 18" IN DIAMETER SHALL INCORPORATE LOCKING TYPE INDICATING ADJUSTMENT. BALANCING DAMPERS SHALL BE INSTALLED IN ALL BRANCH DUCTS OFF MAIN AND ON ALL TAPS OFF DUCTS TO DIFFUSERS UNLESS OTHERWISE NOTED ON DRAWINGS.
 - FINAL CONNECTIONS TO DIFFUSERS MAY BE MADE WITH FLEXIBLE AIR DUCTWORK BUT ITS USE IS LIMITED TO STRAIGHT HORIZONTAL OR VERTICAL RUNS. ALL CHANGES OF DIRECTION IN A DUCT SYSTEM (GALVANIZED OR FLEXIBLE) SHALL BE MADE WITH AN APPROPRIATE GALVANIZED ELBOW, MAXIMUM LENGTH OF ANY FLEXIBLE AIR DUCT IS 5'-0".
 - FLEXIBLE AIR DUCTS TO DIFFUSERS SHALL BE ATCO RUBBER PRODUCTS, INC. MODEL UPC #070, INSULATED (R=4.2), U.L. 181 RATED AND CLASS A AIR CONNECTOR. MAXIMUM LENGTH OF FLEXIBLE AIR DUCT TO DIFFUSER TO BE 5'-0".
 - DOUBLE THICKNESS INSULATED ACCESS DOORS SHALL BE PROVIDED AT ALL FIRE DAMPERS FOR ACCESS TO FUSIBLE LINK. DOOR SHALL BE SIZED TO ALLOW FOR EASY SERVICE AND ACCESSIBILITY. ACCESS DOORS SHALL BE A MINIMUM OF 24" IN THE LONGEST DIMENSION.
 - PROVIDE 3"x3"x1/4" ANGLE FRAMING AROUND THE ROOF OPENINGS FOR THE SUPPLY AND RETURN AIR DUCTWORK.
 - SUPPORT ALL SHEET METAL AND EQUIPMENT FROM ANGLE IRON CONNECTED TO STRUCTURAL STEEL. DO NOT SUSPEND DUCT OR EQUIPMENT FROM METAL DECK OR JOIST BRIDGING.
 - FIRE DAMPERS SHALL BE RUSKIN AND SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND SMACNA REQUIREMENTS FOR A U.L. APPROVED INSTALLATION. FIRE DAMPERS SHALL BE TYPE "B" (BLADES AND FRAME COMPLETELY OUT OF THE AIRSTREAM) FOR ALL WALL ASSEMBLIES AND SHALL BE INSTALLED WITH THE APPROPRIATE SLEEVE AND ANGLE PER UL 555. FIRE DAMPERS SHALL BE INSTALLED IN ALL FIRE RATED WALLS. VERIFY FIRE RATED WALL LOCATIONS AND RATINGS ON THE ARCHITECTURAL DOCUMENTS. FOR ALL FLOOR PENETRATIONS PROVIDE RUSKIN TYPE "LR" FIRE DAMPERS. SEE DETAILS ON DRAWINGS FOR ADDITIONAL INSTALLATION REQUIREMENTS REQUIRED FOR A COMPLETE INSTALLATION.
 - GRILLES, REGISTERS AND DIFFUSERS
 - SEE SCHEDULE ON DRAWINGS

IV. HVAC EQUIPMENT

A. GENERAL

- INSTALLATION OF ALL EQUIPMENT SHALL COMPLY WITH THE MANUFACTURER'S INSTALLATION INFORMATION AND INSTRUCTIONS, REQUIREMENTS AND ANY ADDITIONAL GUIDELINES. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL REQUIRED ACCESSORIES REQUIRED TO COMPLETE THE INSTALLATIONS.
- HVAC EQUIPMENT SHALL BE "STARTED UP" BY A FACTORY TRAINED AND AUTHORIZED SERVICE TECHNICIAN.
- ALL FACTORY STARTUP FORMS SHALL BE COMPLETED AND TURNED OVER TO THE OWNER WITH ALL COMPLETED WARRANTY CARDS PRIOR TO FINAL APPROVAL.

B. PACKAGE ROOFTOP HEATING AND AIR-CONDITIONING UNITS

- SEE DRAWING FOR INDIVIDUAL UNIT PERFORMANCE REQUIREMENTS.
- UNIT SHALL BE OF ONE-PIECE PACKAGED CONSTRUCTION COMPLETELY ASSEMBLED, WIRED AND FACTORY TESTED.
- WIRING SHALL COMPLY WITH LATEST EDITION OF THE NEC AND SHALL INCORPORATE 3-LEG OVERLOAD PROTECTION FOR THE COMPRESSOR(S).
- UNIT SHALL BE COMPLETE WITH PRESSURE SAFETY CONTROLS, ANTI-SHORT CYCLE PROTECTION AND CONTROLS (WHEN SPECIFICALLY NOTED ON THE DRAWINGS).

C. ELECTRIC HEATING EQUIPMENT

- ELECTRIC UNIT HEATERS (EUH) -
 - SEE DRAWING FOR INDIVIDUAL UNIT PERFORMANCE.

VI. CONTROLS

- CONTROL WIRING SHALL BE PLENUM RATED CABLE WITH COLOR CODED 18 AWG WIRES (MINIMUM).
- CONTRACTOR SHALL PROVIDE ALL WIRING BETWEEN THERMOSTAT AND EQUIPMENT (AIR HANDLER, ROOFTOP UNIT, CONDENSING UNIT, ETC.).
- CONTRACTOR SHALL FURNISH AND INSTALL A 120 VOLT SUPPLY AIR DUCT MOUNTED PHOTOELECTRIC SMOKE DETECTOR. DETECTOR SHALL BE WIRED, BY THE ELECTRICAL CONTRACTOR, TO SHUT DOWN UNIT UPON ACTIVATION.
- LOCAL CONTROL PANELS SHALL BE PROVIDED FOR ALL RELAYS, TRANSDUCERS, AND OTHER FIELD INTERFACE DEVICES.
 - PANELS SHALL BE NEMA TYPE SUITABLE FOR EACH APPLICATION.
 - ALL WIRING IN PANEL SHALL BE ROUTED IN WIRING TRAYS.
 - PROVIDE FINAL AS-BUILT CONTROL DRAWING MOUNTED INSIDE THE PANEL.
 - CONTRACTOR SHALL PROVIDE ALL WIRING AND/OR TUBING BETWEEN CONTROL PANEL(S) AND REMOTE CONTROL DEVICES.

E. THERMOSTATS

- FURNISH AND INSTALL A HONEYWELL 7 DAY PROGRAMMABLE HEATING/COOLING THERMOSTAT AND CLEAR LOCKABLE COVER WITH APPROPRIATE CONTROL WIRING BETWEEN THERMOSTAT, ROOFTOP AS REQUIRED TO PROVIDE A COMPLETE OPERATING SYSTEM. WIRING SHALL BE MINIMUM 18 AWG.
- THERMOSTATS SHALL BE MOUNTED WHERE INDICATED ON THE DOCUMENTS.
- CONTRACTOR SHALL PROGRAM THERMOSTAT PER THE OWNER'S REQUIREMENTS AND TRAIN OWNER'S PERSONNEL IN THE OPERATION AND PROGRAMMING OF THE THERMOSTAT AND SYSTEM.

F. TEMPERATURE SENSORS

- FURNISH AND INSTALL THE TEMPERATURE SENSORS WITH APPROPRIATE CONTROL WIRING BETWEEN THERMOSTAT, ROOFTOP AS REQUIRED TO PROVIDE A COMPLETE OPERATING SYSTEM. WIRING SHALL BE MINIMUM 18 AWG.
- TEMPERATURE SENSORS SHALL BE MOUNTED WHERE INDICATED ON THE DOCUMENTS.

VII. TESTING AND BALANCING

- TESTING AND BALANCING SHALL NOT BEGIN UNTIL THE SYSTEM HAS BEEN COMPLETED, IS IN FULL WORKING ORDER AND ALL EQUIPMENT START-UP HAS BEEN COMPLETED. ALL HVAC SYSTEMS AND EQUIPMENT SHALL BE PUT INTO FULL OPERATION AND THE OPERATION OF SAME CONTINUED DURING EACH WORKING DAY OF THE TESTING AND BALANCING.

- AN INDEPENDENT "AABC" OR "NEBB" CERTIFIED AIR AND WATER BALANCE CONTRACTOR SHALL TEST AND BALANCE THE SYSTEM AND REPORT RESULTS TO THE ENGINEER AND THE OWNER.

- ALL WORK SHALL BE DONE UNDER DIRECT SUPERVISION OF THE CERTIFIED BALANCING ENGINEER AND BY QUALIFIED BALANCING TECHNICIANS.
- METHODS AND FORMS SHALL BE IN ACCORDANCE WITH THE CERTIFICATION AGENCIES RECOMMENDATIONS AND REQUIREMENTS.
- COMPLY WITH ASHRAE RECOMMENDATIONS PERTAINING TO MEASUREMENTS, INSTRUMENTS, TESTING, ADJUSTING AND BALANCING.
- ALL QUANTITIES SHALL BE WITHIN 10% OF THE DESIGN VALUES.
- CONTRACTOR SHALL PROVIDE ANY SHEAVE CHANGES REQUIRED ON THE HVAC UNIT.

C. PERFORMANCE TEST

- AFTER ALL HVAC EQUIPMENT IS INSTALLED, TESTED AND BALANCED AS SPECIFIED HEREIN THEY SHALL BE OPERATED AND PLACED UNDER SURVEILLANCE FOR A PERIOD OF AT LEAST ONE (1) DAY. THIS MAY INCLUDE THE DAY OF STARTUP TO VERIFY THAT ALL EQUIPMENT IS PRODUCING THE REQUIRED CAPACITY. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE OPERATION OF THE EQUIPMENT DURING THE ENTIRE PERIOD.
- TEST SHALL BE PERFORMED WITH ALL CONTROLS IN THE AUTOMATIC POSITION AND BUILDING LIGHTS, DAMPERS, ETC. POSITIONED TO SIMULATE NORMAL OPERATION OF THE HVAC SYSTEM.
- DURING THE TEST, CONTROL SETTINGS MAY REQUIRE ADDITIONAL ADJUSTMENTS TO PRODUCE THE BEST BALANCED SYSTEM OPERATION. THEIR FINAL SETTING OF EACH OPERATING AND SAFETY CONTROL SHALL BE RECORDED. THEY SHALL INCLUDE, BUT NOT LIMITED TO, THERMOSTATS, LIMIT CONTROLS, AND OTHER SIMILAR ITEMS.
- SHOULD COMPLETION OF THE INSTALLATION OCCUR AT SUCH TIME THAT THE REQUIRED PERFORMANCE TEST MUST BE CONDUCTED DURING A SEASON WHEN THE FULL OPERATION OF EITHER THE HEATING OR COOLING SYSTEM CAN NOT BE CHECKED, THE CONTRACTOR SHALL PERFORM THE TEST AND RECORD ALL SUCH DATA AS IS AVAILABLE WITH SYSTEM OPERATING AUTOMATICALLY UNDER THE PREVAILING WEATHER CONDITIONS. THAT PART OF THE SYSTEM WHICH CAN NOT BE TESTED SHALL BE DELAYED UNTIL THE WEATHER IS APPROPRIATE, AT WHICH TIME THE REMAINING PART OF THE REQUIRED TESTS SHALL BE CONDUCTED AND DATA RECORDED ACCORDINGLY.

- ACCEPTANCE AND CHECK-OUT - CONTRACTOR SHALL PROVIDE QUALIFIED PERSONNEL, AT NO ADDITIONAL COST TO THE OWNER, AS MAY BE REQUIRED BY THE ENGINEER FOR THE PURPOSE OF VERIFYING PROPER OPERATION AND INSTALLATION OF THEIR WORK AT THE TIME OF REQUEST FOR ACCEPTANCE.

VIII. SEQUENCE OF OPERATION

A. ROOFTOP UNIT

- WALL MOUNTED THERMOSTAT FURNISHED AS ACCESSORY TO UNIT SHALL SEQUENCE HEATING AND COOLING. PROVIDE WITH SUB-BASE TO MANUALLY SELECT HEATING, COOLING, FAN ON-OFF, AUTO OPERATION.
- UNIT SHALL OPERATE IN OCCUPIED OR UNOCCUPIED MODES BASED UPON TIME CLOCK SEQUENCE AS DETERMINED BY OWNER.
- UNOCCUPIED MODE - THE SUPPLY FAN WILL BE OFF, THE OUTDOOR AIR DAMPER WILL GO TO 100% CLOSED POSITION AND UNIT WILL CYCLE ON WITH CALL FOR HEATING OR COOLING.
- OCCUPIED MODE - THE SUPPLY FAN SHALL RUN CONTINUOUSLY, THE OUTDOOR AIR DAMPER WILL OPEN TO THE MINIMUM AIR POSITION AND THE UNIT WILL GO INTO THE HEATING OR COOLING MODE, BASED UPON ROOM THERMOSTAT SETPOINT TEMPERATURE.
- UPON A CALL FOR COOLING, AND THE OUTDOOR AIR TEMPERATURE IS 55 DEGREES F. (ADJUSTABLE) OR COOLER, THE UNIT SHALL GO INTO ECONOMIZER MODE. IF THE OUTDOOR AIR TEMPERATURE IS GREATER THAN 55 DEGREES F. (ADJUSTABLE), THE OUTSIDE AIR DAMPER SHALL GO TO MINIMUM POSITION, AND THE COMPRESSORS WILL BE ENERGIZED.
- UPON A CALL FOR HEATING, THE ELECTRIC HEAT/GAS BURNER SHALL STAGE.
- A LOW TEMPERATURE THERMOSTAT WILL DE-ENERGIZE THE SUPPLY FAN AND CLOSE THE OUTSIDE AIR DAMPER IF THE MIXED AIR TEMPERATURE IS SENSED AT 40 DEGREES F OR COLDER.
- DUCT MOUNTED SMOKE DETECTOR SHALL SHUT DOWN THE UNIT, CLOSE THE OUTSIDE AIR DAMPER AND SEND A SIGNAL TO THE FIRE ALARM PANEL WHEN ACTIVATED, BOTH SAFETIES WILL REQUIRE MANUAL RESET, AND WILL ACTIVATE AN ALARM AT THE LOCAL CONTROL PANEL.

IX. LABELING

A. SUMMARY

- SECTION INCLUDES NAMEPLATES, TAGS, STENCILS AND PIPE MARKERS.

B. REFERENCES

- ASME A13.1 (AMERICAN SOCIETY OF MECHANICAL ENGINEERS) - SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS.



COMcheck Software Version 4.1.5.1
Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Lee's Summit Animal Hospital North
Location: Lees Summit, Missouri
Climate Zone: 4a
Project Type: Alteration

Construction Site: 810A NW Commerce Dr
Lee's Summit, MO 64086

Owner/Agent:

Designer/Contractor: TES Engineering
25760 1st St
Cleveland, OH 44145
4408712410

Mechanical Systems List

Quantity	System Type & Description
1	RTU-1 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 120 kBtu/h Proposed Efficiency = 80.00% Ef, Required Efficiency: 80.00 % Ef or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 87 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 11.20 EER, Required Efficiency: 11.00 EER + 12.6 IEER Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 1 Supply, Constant Volume, 2800 CFM, 1.0 motor nameplate hp, 95.0 fan efficiency grade
1	RTU-2 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 160 kBtu/h Proposed Efficiency = 80.00% Ef, Required Efficiency: 80.00 % Ef or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 89 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 11.20 EER, Required Efficiency: 11.00 EER + 12.6 IEER Fan System: FAN SYSTEM 2 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 2 Supply, Constant Volume, 2750 CFM, 3.0 motor nameplate hp, 95.0 fan efficiency grade

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Pratikumar Navadiya - Mechanical Engineer
Name - Title Signature Date 03/22/21

Project Title: Lee's Summit Animal Hospital North
Data filename: G:\Curran Architecture\Lee's Summit Animal Hospital\Engineering\Mechanical\ComCheck\Lee's Summit Mechanical Comcheck.cck
Report date: 03/22/21
Page 1 of 11



COMcheck Software Version 4.1.5.1
Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Lee's Summit Animal Hospital North
Data filename: G:\Curran Architecture\Lee's Summit Animal Hospital\Engineering\Mechanical\ComCheck\Lee's Summit Mechanical Comcheck.cck
Report date: 03/22/21
Page 2 of 11



CURRAN
ARCHITECTURE

5719 LAWTON LOOP E. DR.
#212 INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

DRAWN BY: PDN CHECKED BY: JRE



25760 First Street
Cleveland, OH 44145
P 440 871 2410
F 440 871 7954
tesengineering.com

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PROJECT INFORMATION

LEE'S SUMMIT ANIMAL
HOSPITAL NORTH

810A NW COMMERCE DR
LEE'S SUMMIT, MO
64086

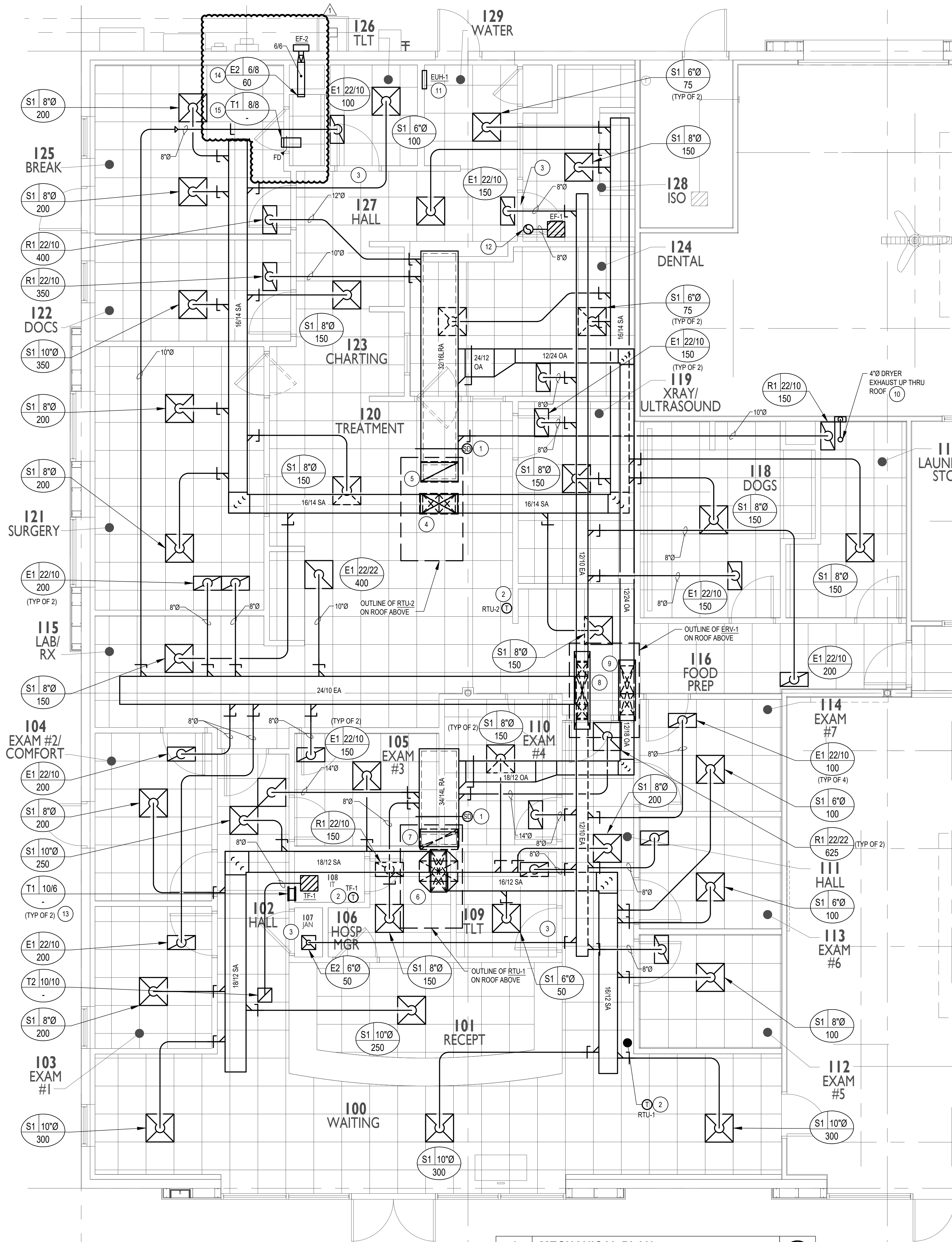
ISSUE DATES

PERMIT SET 04.01.21
PERMIT REVIEW COMMENTS 04.21.21

210095

MECHANICAL
COMPLIANCE

M005



GENERAL SHEET NOTES

- 1. EXISTING MECHANICAL INFORMATION IS BASED ON LIMITED EXISTING BUILDING DRAWINGS AND FIELD WORK. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS FOR ACCURACY. CONTRACTOR SHALL NOTIFY OWNER, ARCHITECT AND ENGINEER OF ANY SITUATIONS THAT MODIFY OR INCREASE THE SCOPE OF WORK FROM THAT IS DESCRIBED IN THE DOCUMENTS.
- 3. REFER TO DRAWINGS AND PROJECT SPECIFICATIONS OF OTHER DISCIPLINES FOR ADDITIONAL PROJECT INFORMATION AND REQUIREMENTS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE INFORMATION PRESENTED AND FIELD CONDITIONS.
- 4. PRIOR TO ANY ISOLATION OF SYSTEMS, SHUTDOWNS OR DEMOLITION THE CONTRACTOR SHALL PROVIDE NECESSARY INVESTIGATION AND NOTIFY THE FACILITIES ENGINEERING/MAINTENANCE PERSONNEL OF WORK TO BE PERFORMED SO AS TO AVOID ANY DETRIMENTAL SHUTDOWN OF SYSTEMS TO ADJACENT SPACES.
- 8. MECHANICAL SYSTEMS INSTALLATION MUST MAINTAIN INTEGRITY OF WALLS, PARTITIONS AND FLOORS DESIGNATED AS EITHER FIRE RATED OR "SMOKE TIGHT". SEAL AROUND ALL PENETRATIONS THROUGH RATED OR SMOKE TIGHT ASSEMBLIES. COORDINATE WARCHITECTURAL PLANS AND GENERAL CONTRACTOR.
- 9. LIMITED ABOVE CEILING CLEARANCES EXIST. COORDINATE LOCATION AND ELEVATION OF MECHANICAL WORK WITH ALL DUCTWORK, SPRINKLERS, LIGHT FIXTURES, AND OTHER CEILING BUILT-IN FIXTURES. CONTACT ENGINEER OR ARCHITECT IMMEDIATELY SHOULD ANY CONFLICT ARISE.
- 10. ALL ROOF PENETRATIONS, PATCHING AND FLASHING SHALL BE PERFORMED BY A LANDLORD APPROVED ROOFING CONTRACTOR AT THIS CONTRACTOR'S EXPENSE. COORDINATE ROOF PENETRATIONS AND ROOFTOP EQUIPMENT LOCATIONS WITH LANDLORD AND GENERAL CONTRACTOR.
- 11. NOTHING IS PERMITTED TO BE ATTACHED TO, SUSPENDED FROM, OR PENETRATE THE ROOF DECK. CONTRACTOR MAY ATTACH TO OR SUSPEND FROM THE TOP CHORD OF THE JOIST OR THE STRUCTURAL STEEL WHICH EXISTS ABOVE THE SPACE.
- 12. COORDINATE FINAL ROOFTOP UNIT LOCATIONS WITH LANDLORDS STRUCTURAL ENGINEER. ROOFTOP UNITS AND MAKE-UP AIR UNIT TO BE LOCATED WITHIN STRUCTURAL BAY. PROVIDE 10" CLEARANCE FROM UNIT OUTSIDE AIR INTAKE TO ANY EXHAUST/VENTS ON ROOF.
- 13. GENERAL CONTRACTOR TO LABEL ALL ROOFTOP EQUIPMENT WITH TENANT NAME, SPACE NUMBER AND EQUIPMENT IDENTIFICATION (RTU-1, ETC.), PER MALL SPECIFICATIONS AND STANDARDS.
- 14. REFER TO LANDLORD CRITERIA MANUAL FOR ADDITIONAL STANDARDS AND REQUIREMENTS.
- 15. COORDINATE ALL THERMOSTAT AND SENSOR LOCATIONS WITH FURNITURE LAYOUT AND ARCHITECTURAL PLANS. DEVICES ARE TO BE INSTALLED AND WIRED BY THE HVAC CONTRACTOR, MOUNT PER ADA REQUIREMENTS.
- 16. CHANGES IN DUCT SIZES SHALL BE MADE BY UNIFORM TAPER SECTION WITH A MAXIMUM INCLUDE ANGLE OF DIVERGENCE OF 15 DEGREE.
- 17. DUCT SIZES INDICATED REPRESENT EXTERNAL SHEET METAL DIMENSIONS AND INCLUDE ALLOWANCE FOR INTERNAL INSULATION.
- 18. ALL SUPPLY AND MAKE-UP AIR DUCTWORK NOT EXPOSED SHALL BE EXTERNALLY INSULATED.
- 19. BRANCH DUCTS SERVING DIFFUSERS SHALL BE SIZED TO MATCH DIFFUSER NECK SIZE INDICATED UNLESS NOTED OTHERWISE.
- 20. PITCH POCKETS ARE NOT PERMITTED ON THE ROOF FOR CONDENSATE DRAINS, POWER OR CONTROL WIRING. ALL CONNECTIONS ARE TO BE MADE INSIDE THE EQUIPMENT CURB OR THROUGH PRE-MANUFACTURED PIPING CURB.
- 21. CONTRACTOR MUST REPLACE ALL AIR FILTERS IN ROOFTOP UNITS WITH NEW CLEAN FILTERS BEFORE AIR BALANCING AND PRIOR TO FINAL TURNOVER TO TENANT.

SHEET KEYNOTES

- 1. SMOKE DETECTOR PROVIDE IN RETURN DUCT, FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, MOUNTED BY MECHANICAL CONTRACTOR. COORDINATE REQUIRED LENGTH OF SAMPLING TUBE WITH ELECTRICAL CONTRACTOR.
- 2. THERMOSTAT MOUNTED ON WALL AT 48" AFF TO BOTTOM. COORDINATE EXACT LOCATION WITH FURNITURE LAYOUT AND ARCHITECTURAL PLANS. THERMOSTAT SHALL BE WIRED TO CONTROL INTERFACE ON ASSOCIATED ROOF TOP UNIT.
- 3. COORDINATE WITH G.C. TO PROVIDE 1" DOOR UNDERCUT FOR TRANSFER AIR.
- 4. 34/16L SA DOWN FROM UNIT. SPLIT INTO TWO(2) 16/14 DUCT. TRANSITION TO FULL SIZE OF UNIT SUPPLY AIR CONNECTION SIZE IN RISE, WITH FLEX CONNECTION BELOW ROOF DECK. PROVIDE ELBOW WITH TURNING VANES IN TRANSITION TO HORIZONTAL.
- 5. 32/16L RA UP TO UNIT. TRANSITION TO FULL SIZE OF UNIT RETURN AIR CONNECTION SIZE IN RISE, WITH FLEX CONNECTION BELOW ROOF DECK. PROVIDE ELBOW WITH TURNING VANES IN TRANSITION TO HORIZONTAL.
- 6. 36/14L SA DOWN FROM UNIT. SPLIT INTO ONE(1) 18/12 AND ONE(1) 16/12 DUCT. TRANSITION TO FULL SIZE OF UNIT SUPPLY AIR CONNECTION SIZE IN RISE, WITH FLEX CONNECTION BELOW ROOF DECK. PROVIDE ELBOW WITH TURNING VANES IN TRANSITION TO HORIZONTAL.
- 7. 34/14L RA UP TO UNIT. TRANSITION TO FULL SIZE OF UNIT RETURN AIR CONNECTION SIZE IN RISE, WITH FLEX CONNECTION BELOW ROOF DECK. PROVIDE ELBOW WITH TURNING VANES IN TRANSITION TO HORIZONTAL.
- 8. 50/12L EA UP TO UNIT. SPLIT INTO TWO(2) 12/10 AND ONE(1) 24/10 DUCT. TRANSITION TO FULL SIZE OF UNIT EXHAUST AIR CONNECTION SIZE IN RISE, WITH FLEX CONNECTION BELOW ROOF DECK. PROVIDE ELBOW WITH TURNING VANES IN TRANSITION TO HORIZONTAL.
- 9. 44/14L OUTSIDE AIR SUPPLY DOWN FROM UNIT. SPLIT INTO ONE(1) 24/12 AND ONE(1) 18/12 DUCT. TRANSITION TO FULL SIZE OF UNIT FRESH AIR CONNECTION SIZE IN RISE, WITH FLEX CONNECTION BELOW ROOF DECK. PROVIDE ELBOW WITH TURNING VANES IN TRANSITION TO HORIZONTAL.
- 10. PROVIDE DRYER VENT WALL BOX. TRANSITION FROM DRYER BOX CONNECTION IN WALL AND ROUTE 4"Ø UP THROUGH ROOF. REFER TO TERMINATION DETAIL FOR ADDITIONAL INFORMATION.
- 11. WALL MOUNTED ELECTRIC HEATER 1" AFF FROM BOTTOM OF HEATER. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
- 12. 8" EXHAUST UP THROUGH ROOF TO CURB AND CAP.
- 13. MOUNT TRANSFER GRILLE ON BOTH SIDE OF WALL AS HIGH AS POSSIBLE BELOW CEILING. GRILLE IS TO BE LOCATED IN THE SPACE BETWEEN 2 WALL STUDS WITH TRANSFER DUCT SIZE TO MATCH. FIELD COORDINATE THE EXACT LOCATION OF THE GRILLE AND ENSURE THAT THERE IS TO BE NO HORIZONTAL FRAMING, OR OTHER OBSTRUCTIONS IN THE STUD SPACE.
- 14. MOUNT EXHAUST GRILLE IN WALL APPROXIMATE 1'-0" AFF. PROVIDE FULL SIZE SHEET METAL SLEEVE THROUGH WALL.
- 15. MOUNT TRANSFER GRILLE AS HIGH AS POSSIBLE BELOW CEILING.

CURRAN
ARCHITECTURE

5719 LAWTON LOOP E. DR.
#212 INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

DRAWN BY: PDN CHECKED BY: JRE

25760 First Street
Cleveland, OH 44145
P 440 871 2410
F 440 871 7954
tesengineering.com

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PROJECT INFORMATION

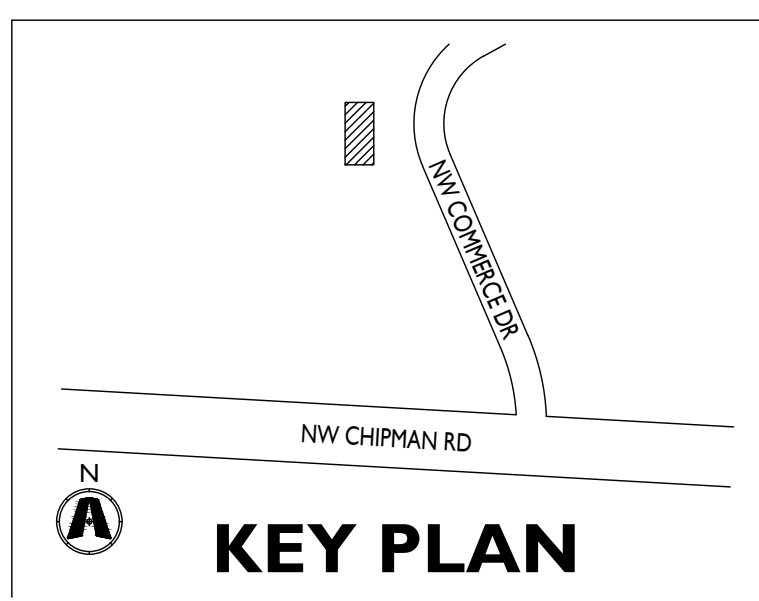
LEE'S SUMMIT ANIMAL HOSPITAL NORTH

810A NW COMMERCE DR
LEE'S SUMMIT, MO 64086

ISSUE DATES

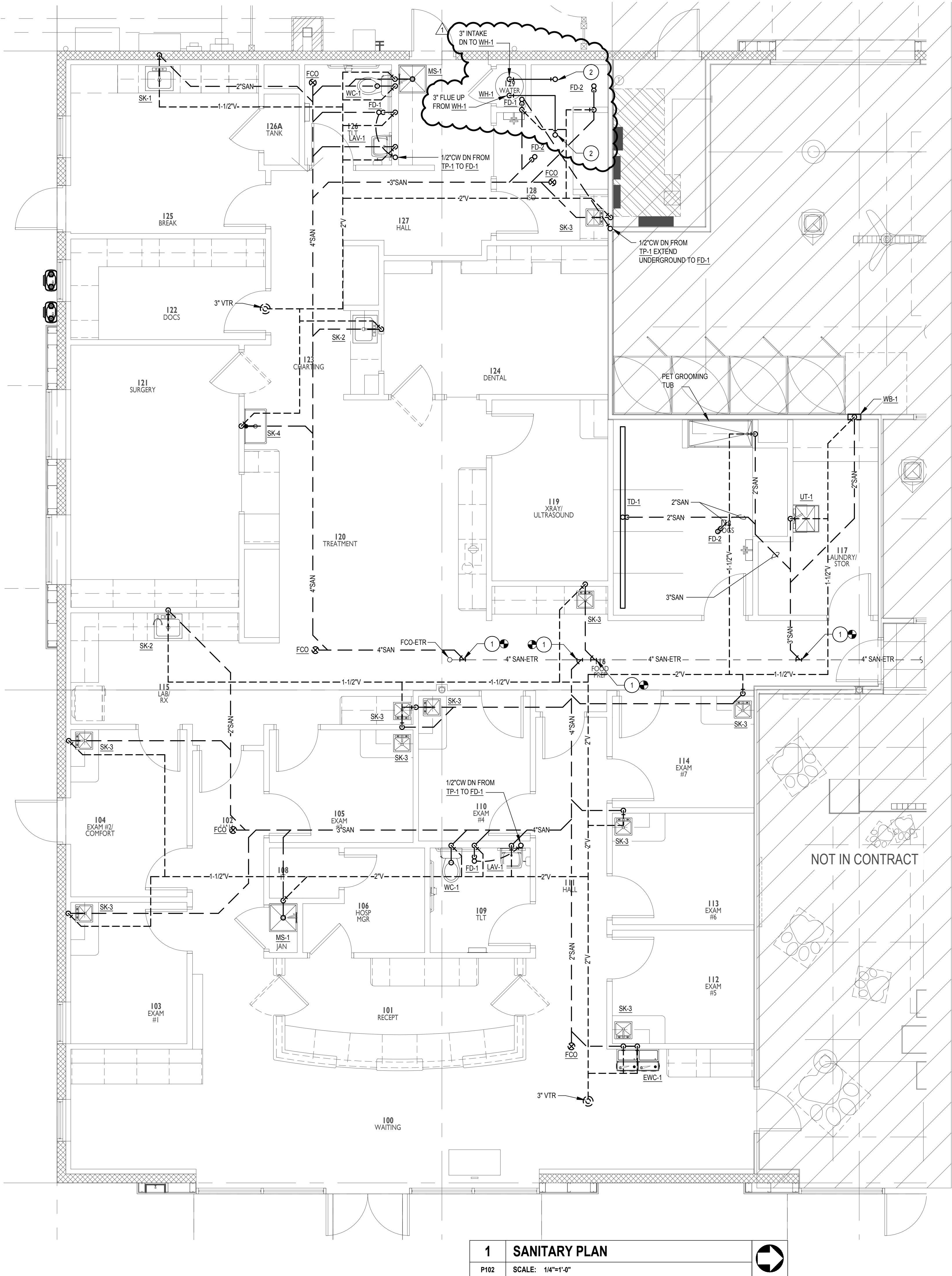
PERMIT SET	04.01.21
PERMIT REVIEW COMMENTS	04.21.21

210095
MECHANICAL PLAN



1 MECHANICAL PLAN

M101 SCALE: 1/4"=1'-0"



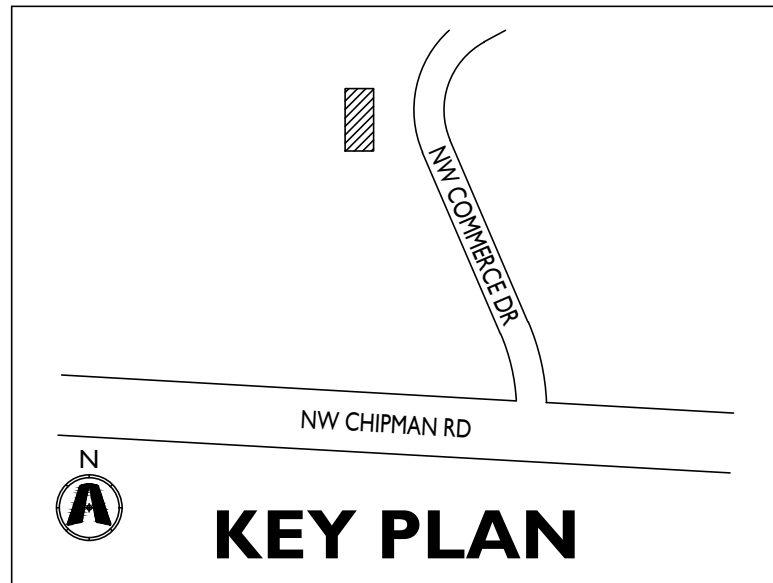
1	SANITARY PLAN	
P102	SCALE: 1/4"=1'-0"	

GENERAL SHEET NOTES

- EXISTING PLUMBING INFORMATION IS BASED ON LIMITED EXISTING BUILDING DRAWINGS AND FIELD WORK. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS FOR ACCURACY. CONTRACTOR SHALL NOTIFY OWNER, ARCHITECT AND ENGINEER OF ANY SITUATIONS THAT MODIFY OR INCREASE THE SCOPE OF WORK FROM THAT IS DESCRIBED IN THE DOCUMENTS.
- ANYTHING NOT NOTED AS EXISTING IS TO BE FURNISHED AND INSTALLED AS PART OF THIS PROJECT.
- REFER TO DRAWINGS AND PROJECT SPECIFICATIONS OF OTHER DISCIPLINES FOR ADDITIONAL PROJECT INFORMATION AND REQUIREMENTS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE INFORMATION PRESENTED AND FIELD CONDITIONS.
- PRIOR TO ANY ISOLATION OF SYSTEMS, SHUTDOWNS OR DEMOLITION THE CONTRACTOR SHALL PROVIDE NECESSARY INVESTIGATION AND NOTIFY THE FACILITIES ENGINEERING/MAINTENANCE PERSONNEL OF WORK TO BE PERFORMED SO AS TO AVOID ANY DETRIMENTAL SHUTDOWN OF SYSTEMS TO ADJACENT SPACES.
- PROTECT EQUIPMENT, FIXTURES, PIPING, DUCTWORK, ETC. INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION. WHEN PERMITTED BY THE ARCHITECT, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION DURING SELECTIVE DEMOLITION AND THEN CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS.
- WHERE PIPE, DUCTWORK, INSULATION, FIXTURES OR EQUIPMENT TO REMAIN IS DAMAGED OR DISTURBED, REMOVE THE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL CAPACITY AND QUALITY. WHERE IDENTICAL MATERIALS ARE UNAVAILABLE OR CANNOT BE USED, USE MATERIALS WHOSE INSTALLED PERFORMANCE EQUALS OR SURPASSES THAT OF THE EXISTING MATERIALS.
- MAINTAIN AND RESTORE, IF INTERRUPTED BY DEMOLITION OR IN THE PATH OF NEW CONSTRUCTION, ALL UTILITIES PASSING THROUGH AND SERVING OUTSIDE OF DEMOLITION AREA.
- PLUMBING INSTALLATION MUST MAINTAIN INTEGRITY OF WALLS, PARTITIONS AND FLOORS DESIGNATED AS EITHER FIRE RATED OR "SMOKE TIGHT". SEAL AROUND ALL PENETRATIONS THROUGH RATED OR SMOKE TIGHT ASSEMBLIES. COORDINATE WITH ARCHITECTURAL PLANS AND GENERAL CONTRACTOR.
- SPACE ABOVE CEILING IS INDICATED TO BE A RETURN AIR PLENUM. CONSTRUCTION MATERIALS ABOVE CEILING SHALL BE NONCOMBUSTIBLE, OR HAVE A MAXIMUM 25 FLAME SPREAD AND 50 SMOKE DEVELOPMENT FINISH RATING. WIRING SHALL BE LABELED PLENUM RATED PER NFPA 70.
- PROVIDE STOP VALVES AT EVERY FIXTURE ON BOTH HOT AND COLD WATER SUPPLY LINES. VALVES, ESCUTCHIONS, FITTINGS, ETC. MUST BE CHROME PLATED. WHERE EXPOSED, CHROME PLATED PIPE IS TO BE USED.
- ALL SANITARY PIPING INSTALLED UNDERGROUND IS TO BE PITCHED @ 1% SLOPE EXCEPT FOR 2" LINES WHICH SHALL BE PITCHED AT 2% SLOPE.
- ALL OVERHEAD PIPING IS TO BE ROUTED TIGHT TO BUILDING STRUCTURE.
- DO NOT ROUTE ANY WATER CONVEYING PIPING OVER ELECTRICAL EQUIPMENT.
- ALL ACCESSIBLE P-TRAPS MUST BE PROVIDED WITH BOTTOM CLEANOUT PLUGS.
- INSULATE EXPOSED P-TRAPS, HOT AND COLD VALVES AND PIPING SERVING HANDICAPPED LAVATORIES.
- NOTHING IS PERMITTED TO BE ATTACHED TO, SUSPENDED FROM, OR PENETRATE THE ROOF DECK. CONTRACTOR MAY ATTACH TO OR SUSPEND FROM THE TOP CHORD OF THE JOIST OR THE STRUCTURAL STEEL WHICH EXISTS ABOVE THE SPACE.
- ALL CONCEALED PIPING SHALL BE TESTED AND PROVEN LEAK PROOF AND FREE FROM DEFECTS PRIOR TO CONCEALMENT.
- ALL FLOOR DRAINS AND CLEANOUTS ARE TO BE INSTALLED FLUSH WITH THE FINISHED FLOOR.

SHEET KEYNOTES

- CONNECT SANITARY PIPING TO EXISTING 4" SAN MAIN UNDER SLAB IN THIS AREA. CONTRACTOR TO FIELD VERIFY EXACT SIZE AND LOCATION PRIOR TO COMMENCING WORK.
- EXTEND 3" AIR INTAKE AND 3" FLUE EXHAUST UP THROUGH ROOF SEPARATELY WITH GOOSENECK DOWN. TERMINATE 4 FEET ABOVE FINISHED ROOF LEVEL WITH BIRD SCREEN. ENSURE 4 FEET OF HORIZONTAL SEPARATION BETWEEN INTAKE AND EXHAUST. INTAKE AND FLUE MATERIAL SHALL BE UL 1738 LISTED PVC MANUFACTURED BY IPEX.



CURRAN
ARCHITECTURE

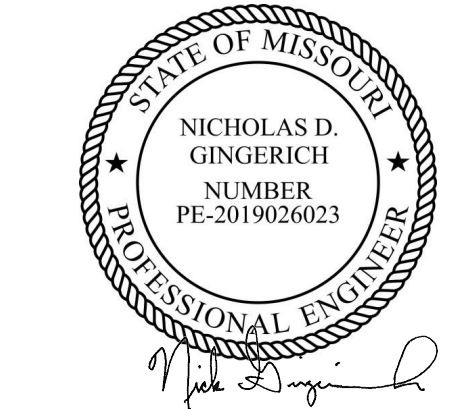
5719 LAWTON LOOP E. DR.
#212 INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

DRAWN BY: JJC CHECKED BY: DLJ



25760 First Street
Cleveland, OH 44145
P 440 871 2410
F 440 871 7954
tesengineering.com

CERTIFICATION



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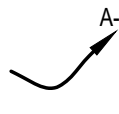
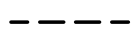
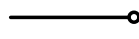




































210095
SANITARY PLAN










































P102

ABBREVIATIONS	
A	AMPERES
ADA	AMERICANS WITH DISABILITIES ACT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANSI	AMERICAN NAT'L STANDARDS INSTITUTE
ARCH	ARCHITECT, ARCHITECTURAL
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
AV	AUDIO/VISUAL
BAS	BUILDING AUTOMATION SYSTEM
BKR	BREAKER
BNG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CATV	CABLE TELEVISION SYSTEM
C/B	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CFM	CUBIC FEET PER MINUTE
CKT	CIRCUIT
CLG	CEILING
CT	CURRENT TRANSFORMER
CW	COLD WATER
D	DEEP, DEPTH
DACT	DIGITAL DATA COMMUNICATING TRANSMITTER
dB	DECIBEL
DDC	DIRECT DIGITAL CONTROL
Δ	DELTA
DIA	DIAMETER
DISC	DISCONNECT
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ET	EXISTING TO REMAIN
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRICAL WATER COOLER
EXH	EXHAUST
EX, EXIST	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR
FLA	FULL LOAD AMPS
FPC	FIRE PROTECTION CONTRACTOR
FT	FOOT, FEET
G, GRD	GROUND
GC	GENERAL CONTRACTOR
GFI, GFCI	GROUND FAULT INTERRUPTER
HID	HIGH INTENSITY DISCHARGE
HTR	HEATER
HVAC	HEATING, VENTILATING & A/C
IBC	INTERNATIONAL BUILDING CODE
IN	INCH, INCHES
KVA	KILOVOLT-AMPS
KW	KILOWATTS
KWH	KILOWATT-HOUR
L	LENGTH
LED	LIGHT EMITTING DIODE
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MINI CIRCUIT BREAKER
MCC	Motor Control Center
MCC MECH	MECHANICAL
MH	METAL HALIDE
MIN	MINIMUM
MOPP	MAXIMUM OVER CURRENT PROTECTION
MUA	MAKE UP AIR
MTD	MOUNTED
N/A	NOT APPLICABLE
N.C.	NORMALLY CLOSED
N.E.C.	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MFR'S ASSOC.
NFPA	NATIONAL FIRE PROTECTION ASSOC.
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
N.T.S.	NOT TO SCALE
OC	ON CENTER
O/H	OVERHEAD
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMIN.
P	POLE
PB	PUSH BUTTON
PC	PULVERIZING CONTRACTOR
PF	POWER FACTOR
PH	PHASE
PVC	POLYVINYL CHLORIDE
RCP	REFLECTED CEILING PLAN
REV	REVISION
REX	REMOVE EXISTING
RGS	RIGID GALVANIZED STEEL
R/LA	RUNNING LOAD AMPS
RM	ROOM
RR	REMOVE AND RELOCATE
RTU	ROOF TOP UNIT
SE	SERVICE ENTRANCE
SF	SQUARE FEET, SQUARE FOOT
T/C	TIME CLOCK
THRU	THROUGH
TRANS	TRANSFORMER
TYP	TYPICAL
UG	UNDERGROUND
UN	UNDERWRITERS LABORATORIES, INC.
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTED POWER SUPPLY
VA	VOLT-AMPERE
W	WATT, WIDTH
W/TH	WITH
WP	WEATHERPROOF
XFMR	TRANSFORMER
Y	WYE

POWER SYMBOLS

(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

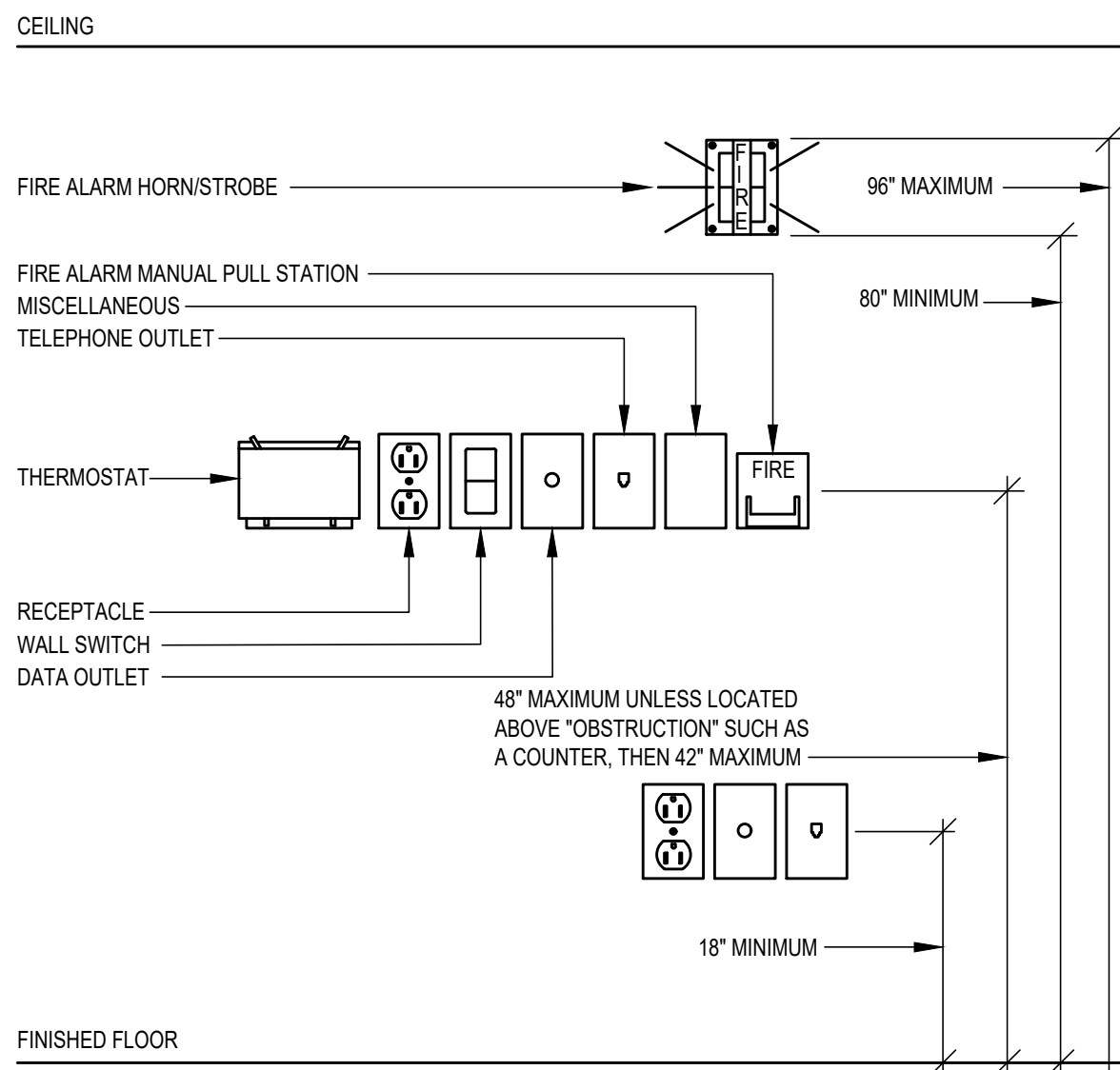
	HOMERUN TO PANEL "A", CIRCUIT #1. PROVIDE #12AWG CONDUCTORS (MINIMUM SIZE) AND #14/2AWG GROUNDING CONDUCTOR IN 3/4" CONDUIT (MINIMUM SIZE) UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR ADDITIONAL GROUNDING REQUIREMENTS.
	INFLOOR/UNDERFLOOR OR UNDERGROUND CONDUIT AND WIRE
	CIRCUITRY TURNING UP
	ELECTRICAL PANEL BOARD - 208Y120V-3Ø-4W
	ELECTRICAL PANEL BOARD - 480Y277V-3Ø-4W
	DRY TYPE TRANSFORMER, REFER TO PLANS FOR SIZE/VOLTAGE
	JUNCTION BOX - CEILING OR WALL MOUNTED
	DISCONNECT SWITCH UNFUSED: "AS" - INDICATES SWITCH SIZE (AMPS)
	DISCONNECT SWITCH FUSED: "AS" - INDICATES SWITCH SIZE (AMPS) "AF" - INDICATES FUSE SIZE (AMPS)
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH, REFER TO PLANS FOR SIZING
	TOGGLE SWITCH DISCONNECT, 120/277V, 20A, 1-HP RATED UON
	MOTOR, REFER TO PLANS FOR SIZE
	SINGLE RECEPTACLE
RECEPTACLE NOTES (APPLICABLE FOR ALL TYPES):	
• RATED 125V, 20A UON	
• MOUNTED AT 18" AFF UON	
• "4-54" INDICATES MOUNTED AT 54" AFF	
• "WP" INDICATES WEATHERPROOF COVER	
• "IG" INDICATES ISOLATED GROUND TYPE	
• REFER TO SPECIFICATIONS FOR DEVICE AND COVERPLATE FINISHES	
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	CONTROLLED DUPLEX OR DOUBLE DUPLEX RECEPTACLE
	GFCI DUPLEX OR DOUBLE DUPLEX RECEPTACLE
	DUPLEX OR DOUBLE DUPLEX RECEPTACLE PROTECTED VIA GFCI BREAKER, PROVIDE LABELING AS REQUIRED BY NEC
	DUPLEX OR DOUBLE DUPLEX RECEPTACLE MOUNTED AT 8" ABOVE COUNTER UON
	CONTROLLED DUPLEX OR DOUBLE DUPLEX RECEPTACLE MOUNTED AT 8" ABOVE COUNTER UON
	GFCI DUPLEX OR DOUBLE DUPLEX RECEPTACLE MOUNTED AT 8" ABOVE COUNTER UON
	DUPLEX OR DOUBLE DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTER UON AND PROTECTED VIA GFCI BREAKER, PROVIDE LABELING AS REQUIRED BY NEC
	DUPLEX OR DOUBLE DUPLEX RECEPTACLE, MOUNTED IN CEILING
	DUPLEX OR DOUBLE DUPLEX RECEPTACLE, MOUNTED IN FLOOR BOX
	DUPLEX RECEPTACLE, MOUNTED IN FIRE RATED POKE-THROUGH DEVICE
	COMBINATION DUPLEX RECEPTACLE AND VOICEDATA OUTLET, MOUNTED IN FIRE RATED POKE-THROUGH DEVICE
	SPECIAL PURPOSE RECEPTACLE
SPECIAL PURPOSE RECEPTACLE NOTES:	
• REFER TO PLANS FOR AMPERAGE AND NEMA CONFIGURATION	
• "L" INDICATES TWIST LOCK RECEPTACLE	
• "4-54" INDICATES MOUNTED AT 54" AFF	
• "WP" INDICATES WEATHERPROOF COVER	
• "GFI" INDICATES GFCI RECEPTACLE	
• "IG" INDICATES ISOLATED GROUND TYPE	
SPECIAL PURPOSE RECEPTACLE PROTECTED VIA GFCI BREAKER	
	COMBINATION DUPLEX RECEPTACLE AND CATV DEVICE
	COMBINATION DUPLEX RECEPTACLE AND CATV DEVICE, CEILING MOUNTED
	COMBINATION DUPLEX RECEPTACLE AND DUAL USE DEVICE
	LIGHT/RECEPTACLE MOUNTED ON MECHANICAL UNIT
	JUNCTION BOX AND DISCONNECT SWITCH FOR SIGNAGE "WP" INDICATES WEATHER PROOF"
	DOOR BELL, REFER TO PLANS FOR SPECIFICATIONS
	LOW VOLTAGE TRANSFORMER, REFER TO PLANS FOR SPECIFICATION
	LOW VOLTAGE PUSHBUTTON, REFER TO PLANS FOR SPECIFICATIONS
	POWER POLE, REFER TO PLANS FOR TYPE AND AMPERAGE
	POWER/COMMUNICATIONS FURNITURE FEED, CEILING OR WALL MOUNTED
	POWER/COMMUNICATIONS FURNITURE FEED, IN FIRE RATED POKE-THROUGH DEVICE
	THERMOSTAT. PROVIDE SINGLE GANG BOX WITH PLASTER RING AND 3/4" CONDUIT TO ABOVE THE ACCESSIBLE CEILING. REFER TO MECHANICAL PLANS FOR LOCATIONS.

LIGHTING SYMBOLS	
(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)	
	HOMERUN TO PANEL "A"; CIRCUIT #1. PROVIDE 2#12AWG CONDUCTORS (MINIMUM SIZE) AND 1#12AWG GROUNDING CONDUCTOR IN 3/4" CONDUIT (MINIMUM SIZE) UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR ADDITIONAL GROUNDING REQUIREMENTS.
	INFLOOR/UNDERFLOOR OR UNDERGROUND CONDUIT AND WIRE
	CIRCUITRY TURNING UP
	LIGHT FIXTURE: "A" INDICATES FIXTURE TYPE, "L-13" INDICATES CIRCUIT NUMBER, "B" INDICATES SWITCH CONTROL. REFER TO LUMINAIRE SCHEDULE FOR DESCRIPTION.
	NIGHT LIGHT FIXTURE WIRED AHEAD OF SWITCHES AND TIME CLOCK
	EMERGENCY LIGHT FIXTURE PROVIDED WITH INTEGRAL BATTERY OR WIRED TO EMERGENCY LIGHTING CIRCUIT
	ILLUMINATED "EXIT" SIGN, WALL MOUNTED. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON FLOOR PLANS.
	ILLUMINATED "EXIT" SIGN, CEILING MOUNTED/SUSPENDED. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON FLOOR PLANS.
	ILLUMINATED "EXIT" SIGN, DUAL HEADS, WALL MOUNTED. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON FLOOR PLANS.
	ILLUMINATED "EXIT" SIGN, DUAL HEADS, CEILING MOUNTED/SUSPENDED. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON FLOOR PLANS.
	EXTERIOR EMERGENCY EGRESS FIXTURE WITH DUAL HEADS, WEATHERPROOF
	EMERGENCY LIGHTING BATTERY UNIT WITH DUAL HEADS, WALL MOUNTED
	EMERGENCY LIGHTING BATTERY UNIT WITH DUAL HEADS, CEILING MOUNTED/SUSPENDED
	SWITCH - SINGLE POLE TOGGLE TYPE - 120/277V, 20A, 1-HP RATED, MOUNTED AT 48" AFF UNLESS OTHERWISE NOTED.
SWITCH NOTES (APPLICABLE FOR ALL TYPES):	
<ul style="list-style-type: none"> • "3" INDICATES THREE WAY SWITCH, "4" INDICATES FOUR WAY SWITCH • "+54" INDICATES MOUNTED 54" ABOVE FINISHED FLOOR • "C" INDICATES SWITCH MOUNTED 8" ABOVE COUNTER • "a" INDICATES SWITCHED FIXTURE CONTROL • "OS" INDICATES DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH • "VS" INDICATES DUAL TECHNOLOGY VACANCY SENSOR SWITCH • "D" INDICATES DIMMER SWITCH - TYPE AS INDICATED ON PLANS • REFER TO SPECIFICATIONS FOR DEVICE AND COVERPLATE FINISHES 	
	DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING MOUNTED
	DUAL TECHNOLOGY VACANCY SENSOR, CEILING MOUNTED
	INTERIOR DAYLIGHT SENSOR, CEILING MOUNTED
	EXTERIOR PHOTOCELL SENSOR, ROOF MOUNTED
	LIGHTING CONTROL EQUIPMENT: LCP = LIGHTING CONTROL PANEL TC = TIME CLOCK LC = LIGHTING CONTACTOR
TECHNOLOGY SYMBOLS	
(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)	
	HOMERUN TO EQUIPMENT INDICATED. REFER TO PLANS AND SPECIFICATIONS FOR ALL REQUIREMENTS
	INFLOOR/UNDERFLOOR CONDUIT/WIRE
	CIRCUITRY TURNING UP
	TELEPHONE FIRE RATED PLYWOOD BACKBOARD, SIZE INDICATED ON PLAN
	JUNCTION BOX, CEILING OR WALL MOUNTED
	DATA ONLY DEVICE, REFER TO DEVICE NOTES
TECHNOLOGY DEVICE NOTES (APPLICABLE FOR ALL TYPES):	
<ul style="list-style-type: none"> • MOUNTED AT 18" AFF UON • PROVIDE SINGLE GANG BOX WITH PLASTER RING AND 3/4" CONDUIT TO ABOVE THE ACCESSIBLE CEILING UON • "+54" INDICATES MOUNTED AT 54" AFF • "C" INDICATES MOUNTED AT 8" ABOVE COUNTER • REFER TO SPECIFICATIONS FOR DEVICE AND COVERPLATE FINISHES 	
	VOICE ONLY DEVICE
	COMBINATION VOICE/DATA DEVICE
	COMBINATION DUPLEX RECEPTACLE AND CATV DEVICE
	COMBINATION DUPLEX RECEPTACLE AND CATV DEVICE, MOUNTED IN CEILING
	COMBINATION VOICE/DATA DEVICE, MOUNTED IN CEILING
	COMBINATION DUPLEX OR DOUBLE DUPLEX RECEPTACLE AND VOICE/DATA DEVICE, MOUNTED IN FLOOR BOX
	COMBINATION DUPLEX RECEPTACLE AND VOICE/DATA DEVICE, MOUNTED IN POKE-THROUGH DEVICE
	POWER/COMMUNICATIONS FURNITURE FEED, CEILING OR WALL MOUNTED
	POWER/COMMUNICATIONS FURNITURE FEED, IN FIRE RATED POKE-THROUGH DEVICE
	SECURITY CAMERA, REFER TO PLANS FOR REQUIREMENTS
	WIRELESS ACCESS POINT, REFER TO PLANS FOR REQUIREMENTS
	KEYPAD, REFER TO PLANS FOR REQUIREMENTS
	GLASS BREAK, REFER TO PLANS FOR REQUIREMENTS
	DOOR CONTACT, REFER TO PLANS FOR REQUIREMENTS
	MOTION SENSOR, REFER TO PLANS FOR REQUIREMENTS
	ELECTRIC STRIKE, REFER TO PLANS FOR REQUIREMENTS
	MAGNETIC DOOR LOCK, REFER TO PLANS FOR REQUIREMENTS

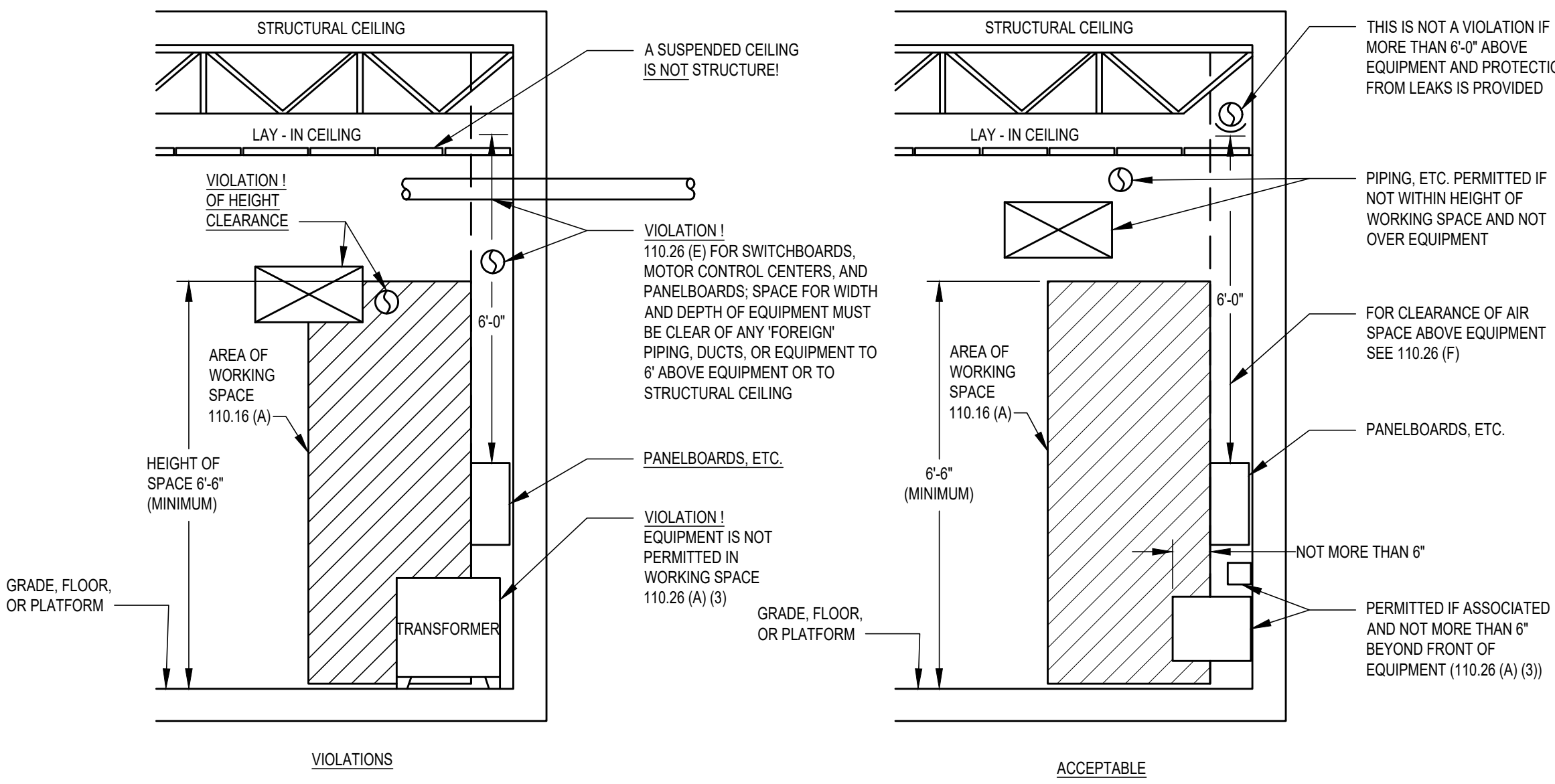
FIRE ALARM SYMBOLS

(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

	FIRE ALARM PANEL: <ul style="list-style-type: none">• FACP = FIRE ALARM CONTROL PANEL• FAEP = FIRE ALARM EXTENDER PANEL• FAAP = FIRE ALARM ANNUCIATOR PANEL• FACU = FIRE ALARM CONTROL UNIT
	FIRE ALARM MANUAL PULL STATION, MOUNTED AT 48" AFF
	FIRE ALARM BELL ONLY ALARM SIGNAL, WALL MOUNTED AT 80" AFF
	FIRE ALARM BELL ONLY ALARM SIGNAL, CEILING MOUNTED/SUSPENDED
	FIRE ALARM HORN ONLY ALARM SIGNAL, WALL MOUNTED AT 80" AFF
	FIRE ALARM HORN ONLY ALARM SIGNAL, CEILING MOUNTED/SUSPENDED
	FIRE ALARM HORN/STROBE ALARM SIGNAL, WALL MOUNTED AT 80" AFF
	FIRE ALARM HORN/STROBE ALARM SIGNAL, CEILING MOUNTED/SUSPENDED
	FIRE ALARM VISUAL ONLY ALARM SIGNAL, WALL MOUNTED AT 80" AFF
	FIRE ALARM VISUAL ONLY ALARM SIGNAL, CEILING MOUNTED/SUSPENDED
	FIRE ALARM SPEAKER/STROBE ALARM SIGNAL, WALL MOUNTED AT 80" AFF
	FIRE ALARM SPEAKER/STROBE ALARM SIGNAL, CEILING MOUNTED/SUSPENDED
	PHOTOELECTRIC SMOKE DETECTOR, CEILING MOUNTED/SUSPENDED
	DUCT MOUNTED PHOTOELECTRIC SMOKE DETECTOR WITH SAMPLING TUBE, FURNISHED AND WIRED BY EC. MOUNTED BY EC. EC SHALL PROVIDE REMOTE INDICATOR LIGHT/AUDIBLE ALARM LOCATED IN OCCUPIED SPACE.
	FIXED TEMPERATURE HEAT DETECTOR, CEILING MOUNTED/SUSPENDED
	CARBON MONOXIDE DETECTOR, CEILING MOUNTED/SUSPENDED
	VALVE SUPERVISORY SWITCH
	WATER FLOW DETECTOR SWITCH



1	TYPICAL MOUNTING HEIGHTS (UON)
E001	SCALE: NONE



2	SUMMARY OF NEC 110.26 CLEARANCE REQUIREMENTS
E001	SCALE: NONE

GENERAL ELECTRICAL NOTES

- A. INSTALL ALL EXPOSED RACEWAYS PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS. CONDUITS SHALL BE RUN SO THAT THE STRUCTURAL SURFACE (INCLUDING ALL RADIIUSES AND CONTOURS) AND SHALL BE INSTALLED SUCH THAT THEY DO NOT OBSTRUCT PASSAGeways OR ACCESS TO EQUIPMENT. ALL VISIBLE CONDUITS SHALL BE INSTALLED IN A NEAT AND ORDERLY FASHION AND MULTIPLE RACEWAYS SHALL BE INSTALLED AND GROUPED TOGETHER WHERE POSSIBLE. ALL RACEWAYS VISIBLE TO THE PUBLIC SHALL BE APPROVED BY THE ARCHITECT, OWNER, AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE CLEAR AND LEGIBLE CONDUIT ROUTING PLANS TO THE ARCHITECT AND GENERAL CONTRACTOR FOR REVIEW TWO WEEKS PRIOR TO SCHEDULED WORK.
- B. ENSURE THAT ALL MECHANICAL EQUIPMENT DISCONNECTING MEANS ARE READILY ACCESSIBLE AND PROVIDED WITH NEC REQUIRED CLEARANCES. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
- C. COORDINATE ALL CEILING MOUNTED DEVICES AND LIGHT FIXTURES AND ALL FLOOR MOUNTED DEVICES AND EQUIPMENT WITH THE STRUCTURAL ENGINEERING PLANS, ARCHITECTURAL PLANS, AND THE GENERAL CONTRACTOR IN THE FIELD PRIOR TO ROUGH-IN. ALL ELECTRICAL CONNECTIONS SHALL MEET LOCAL, STATE, AND NATIONAL CODE REQUIREMENTS.
- D. PROVIDE FINAL CONNECTION TO ALL ELECTRICALLY POWERED EQUIPMENT UNLESS OTHERWISE NOTED. COORDINATE SCOPE OF WORK WITH GENERAL, MECHANICAL, PLUMBING, FIRE PROTECTION CONTRACTORS. COORDINATE ALL WORK BETWEEN TRADES AND FIELD CONDITIONS.
- E. PROVIDE ALL REQUIRED MISCELLANEOUS SUPPORTS FOR A COMPLETE AND FUNCTIONAL ELECTRICAL INSTALLATION, INCLUDING BUT NOT LIMITED TO: MISCELLANEOUS STEEL, UNI-STRUT, ALL-THREAD, AIRCRAFT CABLE, ETC. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- F. REFER TO THE "MEP" SERIES OF DRAWINGS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT CONNECTION REQUIREMENTS. COORDINATE FINAL SCOPE OF WORK IN THE FIELD. VERIFY ALL EQUIPMENT CHANGES WITH MECHANICAL OR PLUMBING CONTRACTOR AND MAKE ADJUSTMENTS AS NECESSARY TO CIRCUIT BREAKERS, FEEDERS, PANEL SCHEDULES, ETC. NOTE ALL CHANGES ON AS-BUILT PLANS.
- G. VERIFY DIRECTION OF DOOR SWING PRIOR TO ROUGH-IN OF ALL LIGHTING CONTROL DEVICES. DEVICES SHALL BE READILY ACCESSIBLE AND NOT LOCATED BEHIND OPEN DOORS, WALL MOUNTED SHELVING, OR OTHER EQUIPMENT. COORDINATE WITH GENERAL CONTRACTOR AND FIELD CONDITIONS.
- H. REFER TO ARCHITECTURAL CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. IN AREAS WITHOUT CEILINGS, FIXTURES SHALL BE CENTERED, ALIGNED, OR SPACED BETWEEN ARCHITECTURAL OR STRUCTURAL ELEMENTS. COORDINATE EXACT LOCATION IN THE FIELD. VERIFY LOCATIONS WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
- I. LIGHTING CONTROL VENDOR SHALL PROVIDE FINAL LIGHTING CONTROL DRAWINGS DURING CONSTRUCTION SUBMITTAL PHASE. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL SYSTEM REQUIREMENTS FOR A FULLY FUNCTIONAL SYSTEM.
- J. EXIT SIGNS SHALL BE LOCATED SO THAT THEY ARE NOT BLOCKED FROM VIEW BY LIGHT FIXTURES, ARCHITECTURAL ELEMENTS, EQUIPMENT, SHELVING, ETC. EXIT SIGNS AT EGRESS DOORWAYS SHALL BE CENTERED ABOVE DOOR UNLESS OTHERWISE NOTED. DIRECTIONAL INDICATORS SHALL BE VERIFIED WITH THE EGRESS PATHWAYS AS INDICATED ON THE LIFE SAFETY PLAN. COORDINATE ALL EXIT SIGN LOCATIONS WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
- K. PROVIDE GFCI PROTECTION FOR ALL RECEPTACLES AS REQUIRED PER NEC 210.8. GFCI RECEPTACLES SHALL BE READILY ACCESSIBLE. IN LOCATIONS WHERE THE RECEPTACLE IS NOT READILY ACCESSIBLE, PROVIDE A GFCI CIRCUIT BREAKER FOR PROTECTION. DO NOT INSTALL GFCI RECEPTACLES POWERED FROM GFCI CIRCUIT BREAKERS.
- L. INSTALL ALL LUMINAIRES PER NEC 410.10, ALL WET LOCATION FIXTURES, INCLUDING BUT NOT LIMITED TO: IN-GRADE, EXTERIOR CANOPY, WALL MOUNTED, ETC. SHALL BE PROTECTED FROM WATER PENETRATION. ALL FIXTURES AND COMPONENTS SHALL BE LISTED FOR INTENDED USE.
- M. ALL SYSTEMS AND COMPONENTS, INCLUDED BUT NOT LIMITED TO: POWER WIRING, LOW VOLTAGE WIRING, SECURING METHODS, ETC., INSTALLED WITHIN PLENUMS SHALL BE PLENUM RATED.
- N. CONDUITS SHALL BE INSTALLED 1-1/2" BELOW UNDERSIDE OF ROOF DECK PER NEC 300.4.
- O. ALL LOW VOLTAGE LIGHTING CONTROL WIRING, INCLUDING BUT NOT LIMITED TO: 0-10V WIRING, DMX WIRING, ETC., SHALL BE PLENUM RATED OR SHALL BE INSTALLED WITHIN CONDUIT. LOW VOLTAGE CONDUCTORS SHALL NOT BE ROUTED WITHIN THE SAME CONDUIT AS POWER CONDUCTORS. CONTROL WIRING SHALL BE INSTALLED AS REQUIRED BY MANUFACTURER AND NEC REQUIREMENTS.
- P. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTION REQUIREMENTS WITH LOCAL UTILITY COMPANY UPON COMMENCING WORK.
- Q. ALL TELEPHONE AND COMMUNICATION CABLES ENTERING THE BUILDING SHALL BE PROTECTED VIA SURGE SUPPRESSION DEVICE. COORDINATE ALL REQUIREMENTS IN FIELD WITH UTILITY COMPANY. INSTALL ALL REQUIRED COMPONENTS.
- R. ALL POWER AND CONTROL WIRING FOR FIRE ALARM SYSTEMS, SECURITY SYSTEMS, ETC. (REGARDLESS OF VOLTAGE) SHALL BE INSTALLED WITHIN CONDUIT. COORDINATE ALL REQUIREMENTS WITH ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO ROUGH-IN.



CURRAN ARCHITECTURE

5719 LAWTON LOOP E. DR.
#212 INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

DRAWN BY: RAS CHECKED BY: EJL



25760 First Street
Cleveland, OH 44145
P 440 871 2410
F 440 871 7954
tesengineering.com

CERTIFICATION



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PROJECT INFORMATION

LEE'S SUMMIT ANIMAL HOSPITAL NORTH

810A NW COMMERCE DR
LEE'S SUMMIT, MO
64086

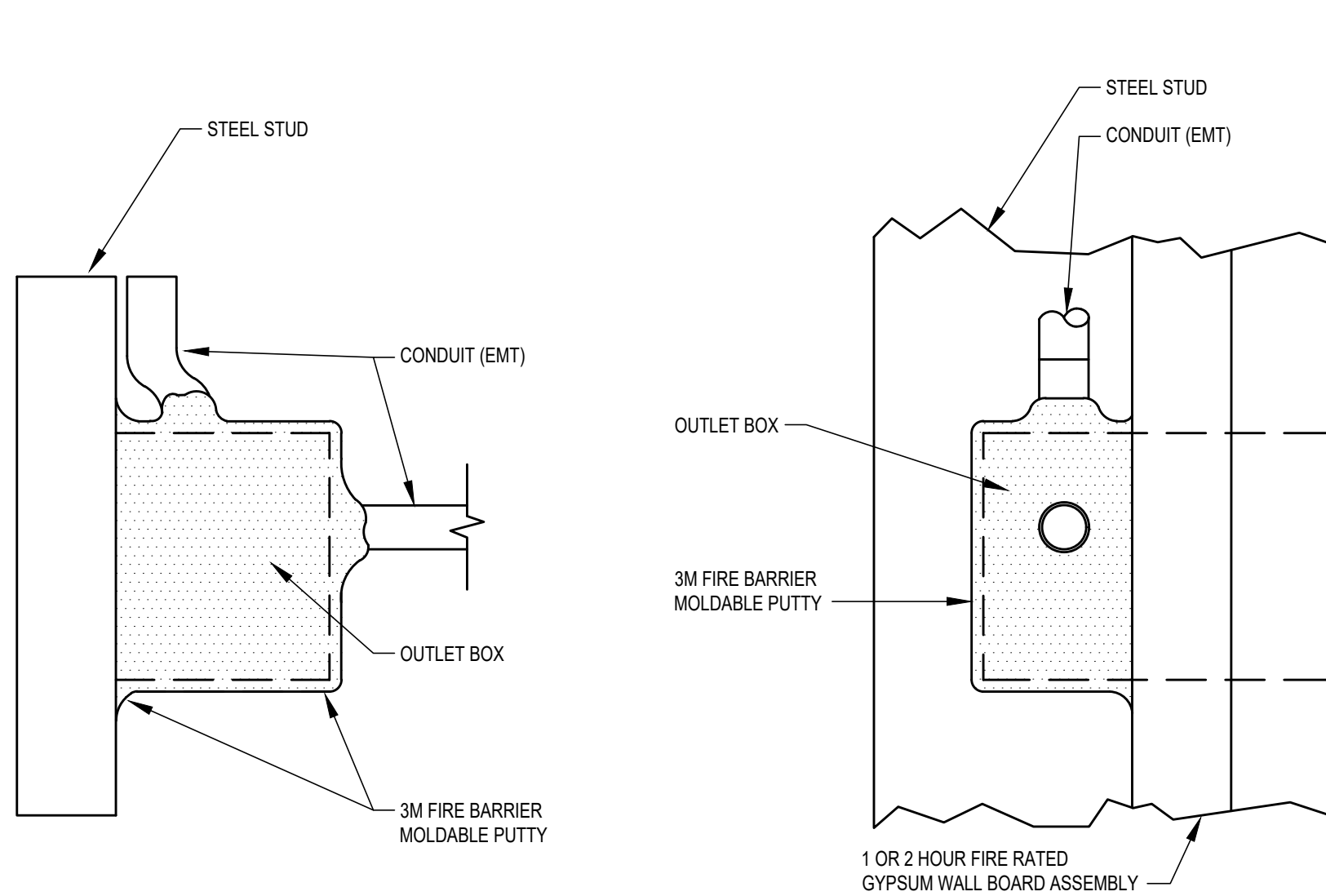
ISSUE DATES

PERMIT SET 04.01.21
PERMIT REVIEW COMMENTS 04.21.21

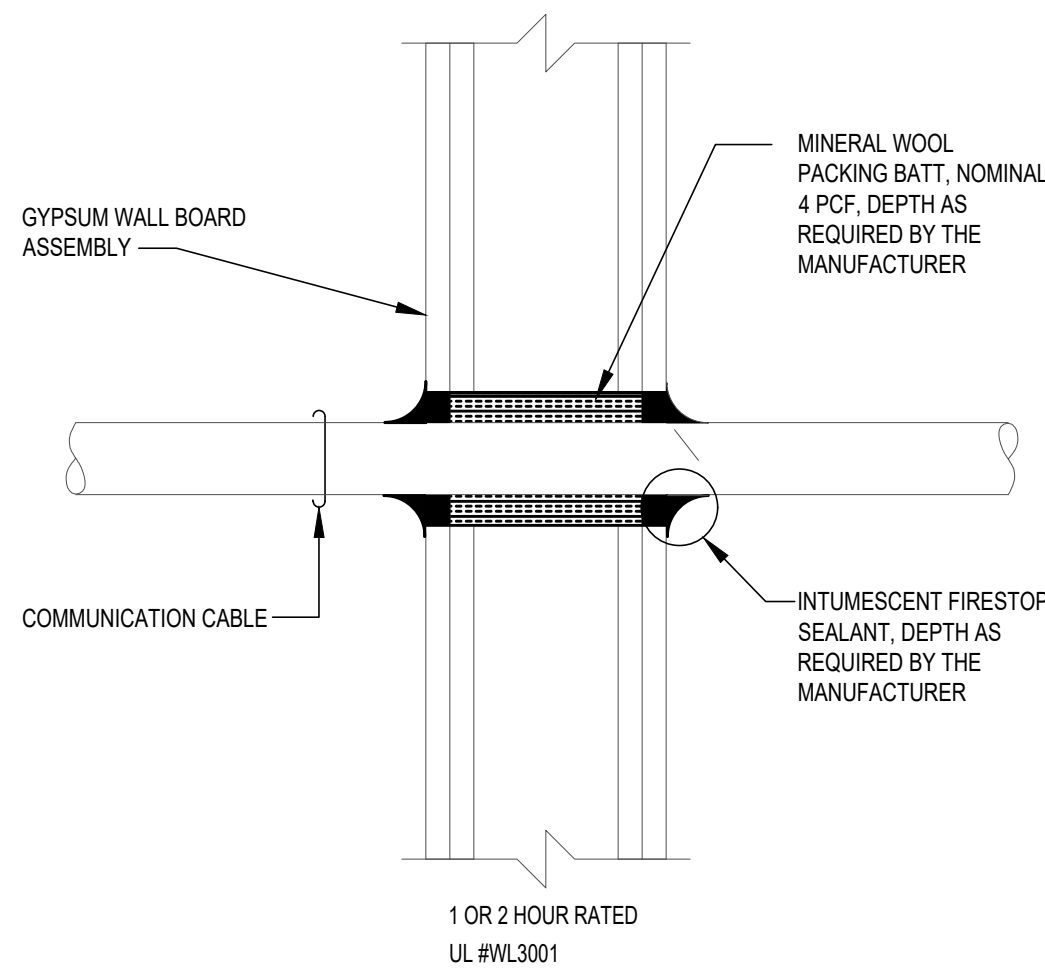
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ELECTRICAL ONE LINE AND SCHEDULES

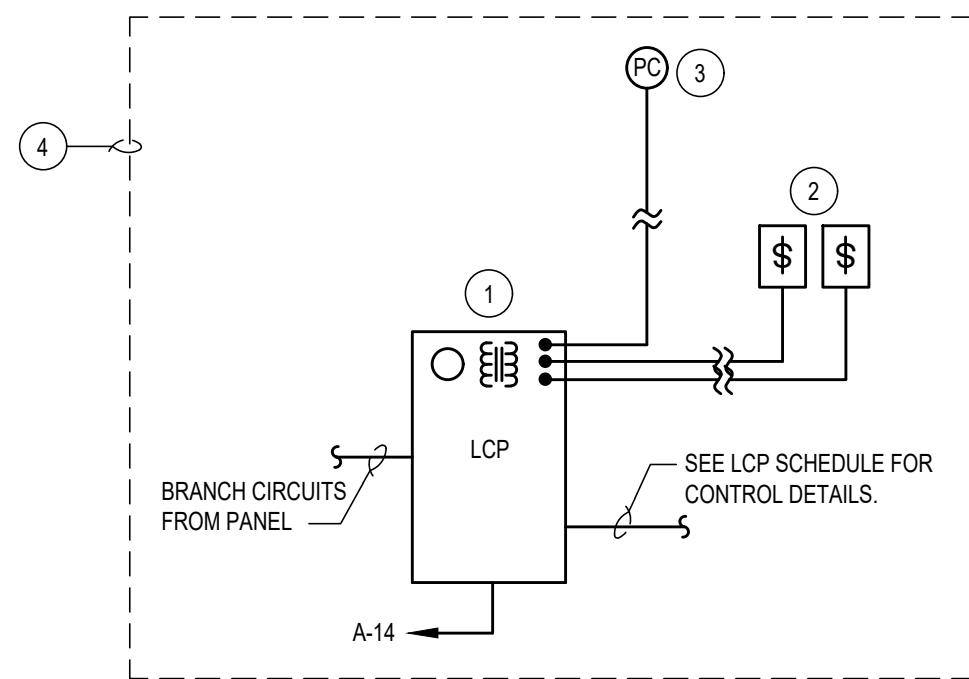
E002



3	2HR FIRESTOP - OUTLET BOX IN GYP
E002	SCALE: NONE



4	2HR FIRESTOP - CABLE THRU GYP
E002	SCALE: NONE



LIGHTING RELAY PANEL LCP SCHEDULE				
RELAY NO.	CONTROL TYPE**	ZONE	VAC	LOAD
1	SM	ZONE #1	120	A-4 LIGHT FIXTURES
2	SM	ZONE #1	120	A-6 LIGHT FIXTURES
3	DM	ZONE #1	120	A-60 DENTAL/XRAY RM LTS
4	DM	ZONE #1	120	A-66 SURGERY ROOM LIGHTS
5	SM	ZONE #2	120	A-10 SIGN
6	SM	ZONE #2	120	A-12 SHOW WINDOW
7	SM	ZONE #2	120	- SPARE
8	SM	ZONE #2	120	- SPARE

LIGHTING ZONES NOTE:

LIGHTING ZONES HAVE BEEN ASSIGNED AS FOLLOWS:

- ZONE 1 - INTERIOR LIGHTING*
- ZONE 2 - SIGNS*

VERIFY ZONING AND SCHEDULE WITH OWNER.

- * VERIFY ZONING AND SCHEDULE WITH OWNER.
 - ** VERIFY ZONING AND SCHEDULE WITH OWNER. MINIMUM SCHEDULING IS PHOTOCELL ON AND PHOTOCELL OFF.
- SM = SWITCHING MODULE, DM = DIMMING MODULE. REFER TO DETAIL FOR EQUIPMENT CATALOG INFORMATION.

ALL LIGHTING SHOWN IN AREAS WITH LOCAL OCCUPANCY SENSOR CONTROL TO BE A STAND ALONE SYSTEM NOT ON THIS RELAY PANEL.

ALL OTHER EXISTING EXTERIOR LIGHTS TO BE POWERED AND CONTROLLED VIA LANDLORD HOUSE PANEL.

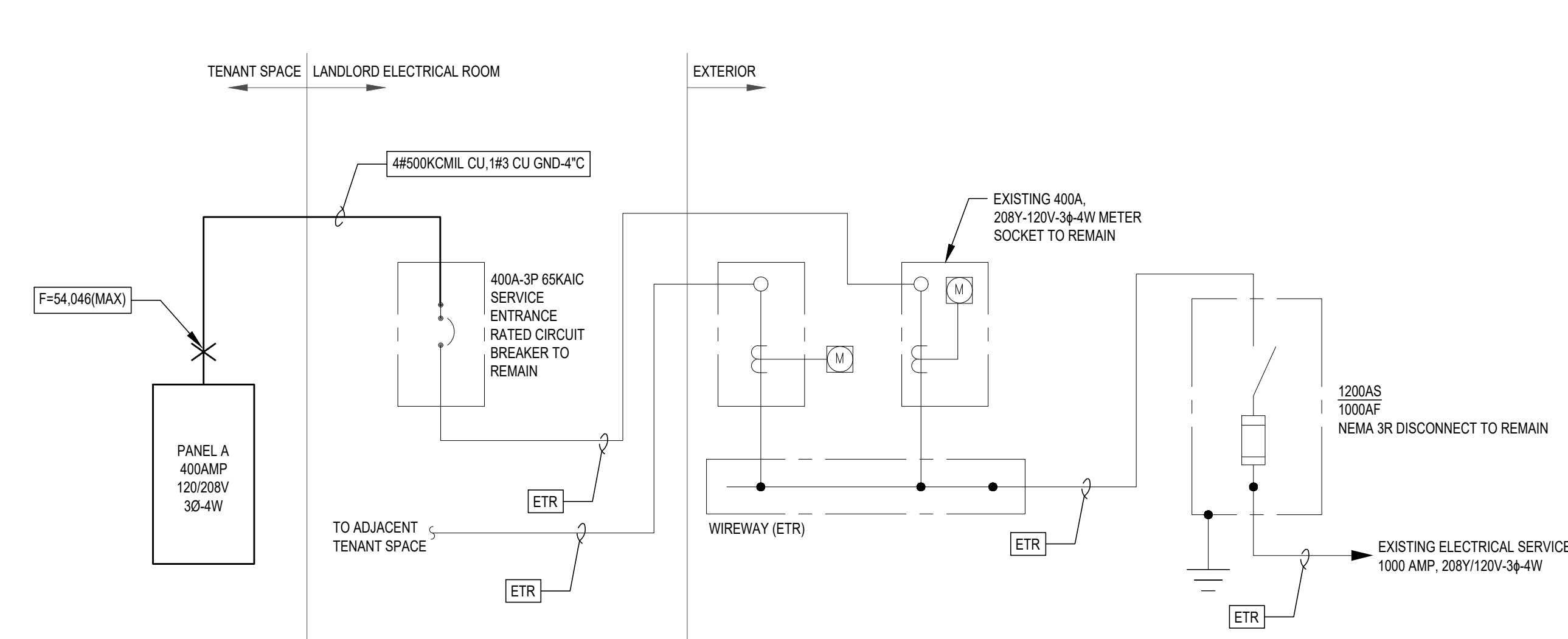
DETAIL KEYNOTES

- 24-HOUR, 7-DAY TIMECLOCK, HUBBELL CX-08-2-S-08-3L-M.
- PROVIDE (2) MANUAL OVERRIDE SWITCHES, WEATHERPROOF, IN LOCKABLE ENCLOSURE. LABEL SWITCH "INTERIOR LIGHTING OVERRIDE" AND "SIGN OVERRIDE". COORDINATE EXACT SWITCH LOCATION WITH OWNER.
- PHOTOCELL ON AT DUSK, PHOTOCELL OFF AT DAWN AUTOMATICALLY.
- COORDINATE ALL WIRING WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH IN.

CONTRACTOR IS TO HOMERUN 184 WIRE BACK TO THE RELAY PANEL FROM EACH OVERRIDE LOCATION.

2 LIGHTING CONTROL DIAGRAM

E002	SCALE: NONE
------	-------------



1 ONE LINE DIAGRAM

E002 SCALE: NONE

PANEL NAME		CIRCUIT BREAKER REMARKS		PANEL CHARACTERISTICS				CIRCUIT BREAKER TYPE/ACCESSORY		OPTIONS	
A		CO-CONTROLLED CIRCUIT, EX=EXISTING LOAD TO REMAIN, M=MODIFIED LOAD ON EXISTING BREAKER, CL=CIRCUIT WIRED THROUGH CURRENT LIMITER		400 BUS		208 / 120		65K MCB 3-Ø, 4-W AIC		A=AFCI, S=SHUNT TRIP, H=HACR, G=GFCI, L=CIRCUIT LOCK, HT=HANDLE TIE, N=NEW CIRCUIT BREAKER, IG=ISOLATED GROUND	
				400		208 / 120		65K		FLUSH	
Ckt No		Breaker (Remarks)		Load Type		Load VA		Load Type		Mounting	
1		201/ H		ELH-1		557		L		201	
3		201/ H		ELH-1		557		L		201	
5		201/ H		ELH-1		557		L		201	
7		201/ H		ELH-1		557		L		201	
9		201/ H		ELH-1		557		L		201	
11		201/ H		ELH-1		557		L		201	
13		201/ H		ELH-1		557		L		201	
15		201/ H		ELH-1		557		L		201	
17		201/ H		ELH-1		557		L		201	
19		201/ H		ELH-1		557		L		201	
21		201/ H		ELH-1		557		L		201	
23		201/ H		ELH-1		557		L		201	
25		201/ H		ELH-1		557		L		201	
27		201/ H		ELH-1		557		L		201	
29		201/ H		ELH-1		557		L		201	
31		201/ H		ELH-1		557		L		201	
33		201/ H		ELH-1		557		L		201	
35		201/ H		ELH-1		557		L		201	
37		201/ H		ELH-1		557		L		201	
39		201/ H		ELH-1		557		L		201	
41		201/ H		ELH-1		557		L		201	
43		201/ H		ELH-1		557		L		201	
45		201/ H		ELH-1		557		L		201	
47		201/ H		ELH-1		557		L		201	
49		201/ H		ELH-1		557		L		201	
51		201/ H		ELH-1		557		L		201	
53		201/ H		ELH-1		557		L		201	
55		201/ H		ELH-1		557		L		201	
57		201/ H		ELH-1		557		L		201	
59		201/ H		ELH-1		557		L		201	
61		201/ H		ELH-1		557		L		201	
63		201/ H		ELH-1		557		L		201	
65		201/ H		ELH-1		557		L		201	
67		201/ H		ELH-1		557		L		201	
69		201/ H		ELH-1		557		L		201	
71		201/ H		ELH-1		557		L		201	
73		201/ H		ELH-1		557		L		201	
75		201/ H		ELH-1		557		L		201	
77		201/ H		ELH-1		557		L		201	
79		201/ H		ELH-1		557		L		201	
81		201/ H		ELH-1		557		L		201	
83		201/ H		ELH-1		557		L		201	
PANEL NOTES:											
Lighting Load Demand %		1.25									
Show Window Length (FT)											
HVAC Load Demand %		1.00									
Misc Load Demand %		1.00									

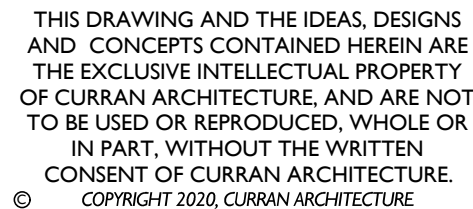
ELECTRICAL LOAD SUMMARY			
LOAD DESCRIPTION	KW (CONNECTED)	NEC DEMAND	KW (DEMAND)
Total Lighting Load "L"	0.45	125%	0.07
Total Track Lighting Load "D"	0.00	NEC	0.00
Total Receptacle Load "R"	29.70	NEC	19.85
Total Show Window Load "C"	0.00	NEC	0.00
Total Motor Load "M"	37.98	100%	37.98
Total Electric Heat Load "H"	1.50	100%	1.50
Total Misc Load "X"	41.28	100%	41.28
Kitchen Appliance Load "K"	0.00	65%	0.00
FUTURE LOAD	0.00	100%	0.00
TOTAL LOAD (KW)	119.88		108.65
TOTAL LOAD (AMPS)	324.4		301.6
TRACK LIGHTING LENGTH IS INDICATED AS 0 BECAUSE THE TRACK LIGHTING LOAD "D" IS CALCULATED AT 80% OF THE CURRENT LIMITING DEVICE.			



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TIFICATION



LEE'S SUMMIT ANIMAL
HOSPITAL NORTH

ISSUE DATES

ELECTRICAL SPECIFICATIONS

DIVISION 26 - ELECTRICAL

A. GENERAL CONDITIONS, CODES & STANDARDS

- ## B. SCOPE OF WORK

- ### C. DOCUMENTS

- #### D. COORDINATION

F. SUBMITTALS

- ## II. PRODUCTS

A. CONDUCT

A. CONDUIT

- ## B. CONDUIT FITTINGS AND BOXES

- ### C. WIRE AND CABLE

- #### D. WIRING DEVICES

- E. LIGHTING AND RECEPTACLE PANELBOARDS

G. LUMINAIRES AND LAMPS

- ### III. EXECUTION

A. GENERAL MISCELLANEOUS

A. GENERAL MISCELLANEOUS


- ## B. GROUNDING

1. PRINCIPAL OCCUPANCY CLASSIFICATION IS GROUP B.
2. SPACE IS PROVIDED WITH FULL SPRINKLER COVERAGE.
3. OCCUPANT LOAD IS LESS THAN 500.
4. A FIRE ALARM SYSTEM IS REQUIRED.
5. AIR HANDLING SYSTEMS WITH AN AGGREGATE CAPACITY OVER 2,000 CFM REQUIRE DUCT SMOKE DETECTORS WITH LOCAL VISIBLE AND AUDIBLE SUPERVISORY SIGNAL MOUNTED IN AN APPROVED LOCATION. DUCT SMOKE DETECTOR MONITORING SHALL BE BY OTHERS UNDER SEPARATE CONTRACT WITH THE OWNER.
6. FIRE ALARM SYSTEM INSTALLED OR MODIFIED BY THIS CONTRACTOR IS TO BE VERIFIED AND CERTIFIED BY AHJ AT THIS CONTRACTOR'S EXPENSE.
7. FIRE ALARM SYSTEM MANUFACTURER TO MATCH EXISTING BUILDING FIRE ALARM SYSTEM. COORDINATION IN FIELD.

1. A COMPLETE EXTENSION OF THE EXISTING FIRE ALARM SYSTEM SHALL BE PROVIDED AS DESCRIBED ON THE DRAWINGS. ALL DEVICES, WIRING, BACKBOXES, PROGRAMMING, START-UP, INSTRUCTION AND TESTING REQUIRED FOR A COMPLETE OPERATING SYSTEM SHALL BE PROVIDED.
2. THE ELECTRICAL CONTRACTOR SHALL FURNISH SHOP DRAWINGS, COMPLETE WITH EQUIPMENT CUTS AND FLOOR PLANS (WITH WIRING INDICATED), AS WELL AS BATTERY CALCULATIONS, AND VOLTAGE DROP CALCULATIONS FOR REVIEW AND APPROVAL BY THE ARCHITECT, ENGINEER, AND ALL AUTHORITIES HAVING JURISDICTION. FLOOR PLAN DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR AND/OR SUPPLIER. NICET 4 CERTIFICATION AND STAMP IS ACCEPTABLE. IF APPROVED BY THE AUTHORITY HAVING JURISDICTION.
3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL FIRE ALARM DRAWINGS, CALCULATIONS, AND EQUIPMENT INFORMATION FOR ALL REQUIRED LOCAL MUNICIPALITY, OR STATE PERMITS. THE ELECTRICAL CONTRACTOR SHALL ARRANGE AND COORDINATE ALL REQUIRED TESTING AND INSPECTIONS REQUIRED BY THE LOCAL MUNICIPALITY FIRE DEPARTMENT. THE ELECTRICAL CONTRACTOR SHALL INCLUDE FIRE DEPARTMENT COSTS IN BID.
4. ALL HVAC UNITS OR GROUP OF HVAC UNITS WITH A COMMON PLenum AND A DESIGN CAPACITY GREATER THAN 2000 CFM SHALL AUTOMATICALLY SHUT DOWN ASSOCIATED HVAC SYSTEMS, WHERE A DIRECT SMOKE DETECTOR IS NOT VISIBLE OR ACCESSIBLE FROM THE FLOOR. REMOVE AUDIBLE/VISUAL ALARM INDICATOR/TEST SWITCHES SHALL BE PROVIDED IN AN APPROVED LOCATION, AT A HEIGHT ACCESSIBLE AND VISIBLE FROM THE FLOOR. HVAC DUCT DETECTORS SHALL BE CONNECTED TO A CENTRAL STATION MONITORING SYSTEM UNDER SEPARATE CONTRACT WITH THE OWNER.
5. FIRE ALARM SIGNAL SHALL INITIATE THE FOLLOWING ACTIONS:
 - a. CONTINUOUSLY OPERATE ALARM NOTIFICATION APPLIANCES.
 - b. IDENTIFY ALARM AND IDENTIFY THE LOCATION OF THE FIRE CONTROL PANEL.
 - c. INTERRUPT TENANT SOUND SYSTEM.
 - d. UNLOCK ELECTRIC DOORS IN EGRESS PATHS.
 - e. SHUT DOWN AIR HANDLING SYSTEMS.
 - f. SWITCH HVAC EQUIPMENT CONTROLS TO FIRE ALARM MODE.
 - g. CLOSE SMOKE DAMPERS IN AIR DUCTS OF DESIGNATED AIR-CONDITIONING DUCT SYSTEMS.
6. ALL FIRE ALARM VISUAL DEVICES SHALL BE ADA COMPLIANT. STROBE INTENSITIES AS DELEGATED DESIGN BY SYSTEM VENDOR, CEILING MOUNTED DEVICES SHALL HAVE A RATING WITH THE LISTED REQUIREMENTS FOR A SPECIFIC CEILING HEIGHT.
7. ALL WALL MOUNTED STROBES, SPEAKER-STROBES, OR HORN STROBES SHALL BE MOUNTED SUCH THAT THE LENS IS NOT LESS THAN 80 INCHES AND NOT MORE THAN 96 INCHES ABOVE THE FINISHED FLOOR.
8. ALL AUDIBLE NOTIFICATION APPLIANCES SHALL BE SET TO ACHIEVE A SOUND PRESSURE AT LEAST 15 DB ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
9. ALL CABLES FOR THE FIRE ALARM SYSTEM SHALL BE RATED FOR THE INTENDED USE.
10. FIRE ALARM SYSTEM MONITORING SHALL BE BY OTHERS UNDER SEPARATE CONTRACT WITH THE OWNER.
11. PROVIDE A SEPARATE LINE ITEM COST FOR A (1), (3), (5) YEAR MAINTENANCE, TESTING AND MONITORING AGREEMENT. AGREEMENT TO INCLUDE MONITORING TO A UL LISTED CENTRAL STATION PER NFPA 72 REQUIREMENTS. ALL CODE REQUIRED TESTING OF THE FIRE ALARM SYSTEM PER NFPA 72 AND CBC (MONTHLY VISUAL INSPECTION SHALL BE BY THE OWNER). CALL THE FIRE DEPARTMENT FOR SYSTEM TEST REQUEST, AND ALL COST ASSOCIATED WITH MAINTENANCE OF THE SYSTEM SHALL BE PROVIDED (DUE TO DEFECTIVE EQUIPMENT ONLY). PROVIDE A YEARLY REPORT TO THE OWNER.
12. FIRE ALARM SYSTEM SHALL MATCH BASE BUILDING SYSTEM MANUFACTURER.



5719 LAWTON LOOP E. DR.
#212 INDIANAPOLIS, IN 46216
O :: 317.288.0681
F :: 317.288.0753

<div><div></div><div><div>COMcheck Software Version 4.1.5.1</div><div>Interior Lighting Compliance Certificate</div></div></div>																																																																																																																															
<div><div>Project Information</div><div><div><div>Energy Code: 2018 IECC</div><div>Project Title: Lee's Summit Animal Hospital North</div><div>Project Type: Alteration</div></div><div><div>Construction Site: 810A NW Commerce Dr Lee's Summit, MO 64086</div><div>Owner/Agent: Designer/Contractor: TES Engineering 25760 1st St Cleveland, OH 44145 4408712410</div></div></div></div>																																																																																																																															
<div><div>Allowed Interior Lighting Power</div><table><tr><th>A Area Category</th><th>B Floor Area (ft2)</th><th>C Allowed Watts / ft2</th><th>D Allowed Watts (B X C)</th></tr><tr><td>1-BREAK 125 (Common Space Types:Lounge/Breakroom)</td><td>202</td><td>0.62</td><td>125</td></tr><tr><td>2-TLT 126 (Common Space Types:Restrooms)</td><td>56</td><td>0.85</td><td>48</td></tr><tr><td>3-HALL 127 (Common Space Types:Corridor/Transition <8 ft wide)</td><td>261</td><td>0.66</td><td>172</td></tr><tr><td>4-WATER 129 (Common Space Types:Storage <50 sq.ft.)</td><td>10</td><td>0.46</td><td>5</td></tr><tr><td>5-ISO 128 (Common Space Types:Laundry/Washing Area)</td><td>105</td><td>0.43</td><td>45</td></tr><tr><td>6-DOCS 122 (Common Space Types:Copy/Print Room)</td><td>117</td><td>0.58</td><td>68</td></tr><tr><td>7-DENTAL 124 (Healthcare Facility:Operating Room)</td><td>115</td><td>2.17</td><td>380</td></tr><tr><td>8-SURGERY 121 (Healthcare Facility:Operating Room)</td><td>225</td><td>2.17</td><td>488</td></tr><tr><td>9-XRAY/ULTRASOUND 119 (Healthcare Facility:Imaging)</td><td>116</td><td>1.06</td><td>123</td></tr><tr><td>10-TREATMENT (Healthcare Facility:Recovery)</td><td>275</td><td>1.03</td><td>283</td></tr><tr><td>11-FOOD PREP 116 (Common Space Types:Corridor/Transition <8 ft wide)</td><td>306</td><td>0.66</td><td>202</td></tr><tr><td>12-LAB/RX (Healthcare Facility:Imaging)</td><td>127</td><td>1.06</td><td>135</td></tr><tr><td>13-HALL 102 (Common Space Types:Corridor/Transition <8 ft wide)</td><td>119</td><td>0.66</td><td>79</td></tr><tr><td>14-HALL 111 (Common Space Types:Corridor/Transition <8 ft wide)</td><td>130</td><td>0.66</td><td>86</td></tr><tr><td>15-DOGS 118 (Common Space Types:Storage)</td><td>171</td><td>0.63</td><td>108</td></tr><tr><td>16-LAUNDRY/STORAGE 117 (Common Space Types:Laundry/Washing Area)</td><td>108</td><td>0.43</td><td>46</td></tr><tr><td>19-EXAM #2/COMFORT 104 (Healthcare Facility:Exam/Treatment)</td><td>118</td><td>1.68</td><td>198</td></tr><tr><td>17-EXAM #1 103 (Healthcare Facility:Exam/Treatment)</td><td>99</td><td>1.68</td><td>166</td></tr><tr><td>19-EXAM #3 105 (Healthcare Facility:Exam/Treatment)</td><td>89</td><td>1.68</td><td>150</td></tr><tr><td>20-EXAM #4 110 (Healthcare Facility:Exam/Treatment)</td><td>91</td><td>1.68</td><td>153</td></tr><tr><td>21-EXAM #5 112 (Healthcare Facility:Exam/Treatment)</td><td>90</td><td>1.68</td><td>151</td></tr><tr><td>22-EXAM #6 113 (Healthcare Facility:Exam/Treatment)</td><td>90</td><td>1.68</td><td>151</td></tr><tr><td>23-EXAM #7 114 (Healthcare Facility:Exam/Treatment)</td><td>90</td><td>1.68</td><td>151</td></tr><tr><td>24-IT 108 (Common Space Types:Electrical/Mechanical)</td><td>21</td><td>0.43</td><td>9</td></tr><tr><td>25-JAN 107 (Common Space Types:Storage)</td><td>9</td><td>0.63</td><td>6</td></tr><tr><td>26-HOSP MGR (Common Space Types:Office - Enclosed)</td><td>61</td><td>0.93</td><td>57</td></tr><tr><td>27-TLT 109 (Common Space Types:Restrooms)</td><td>61</td><td>0.85</td><td>52</td></tr><tr><td>28-WAITING 109 (Common Space Types:Lobby - General)</td><td>643</td><td>1.00</td><td>643</td></tr><tr><td>29-126A TANK (Common Space Types:Electrical/Mechanical)</td><td>20</td><td>0.43</td><td>9</td></tr><tr><td colspan="3">Total Allowed Watts =</td><td>4287</td></tr></table></div>		A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)	1-BREAK 125 (Common Space Types:Lounge/Breakroom)	202	0.62	125	2-TLT 126 (Common Space Types:Restrooms)	56	0.85	48	3-HALL 127 (Common Space Types:Corridor/Transition <8 ft wide)	261	0.66	172	4-WATER 129 (Common Space Types:Storage <50 sq.ft.)	10	0.46	5	5-ISO 128 (Common Space Types:Laundry/Washing Area)	105	0.43	45	6-DOCS 122 (Common Space Types:Copy/Print Room)	117	0.58	68	7-DENTAL 124 (Healthcare Facility:Operating Room)	115	2.17	380	8-SURGERY 121 (Healthcare Facility:Operating Room)	225	2.17	488	9-XRAY/ULTRASOUND 119 (Healthcare Facility:Imaging)	116	1.06	123	10-TREATMENT (Healthcare Facility:Recovery)	275	1.03	283	11-FOOD PREP 116 (Common Space Types:Corridor/Transition <8 ft wide)	306	0.66	202	12-LAB/RX (Healthcare Facility:Imaging)	127	1.06	135	13-HALL 102 (Common Space Types:Corridor/Transition <8 ft wide)	119	0.66	79	14-HALL 111 (Common Space Types:Corridor/Transition <8 ft wide)	130	0.66	86	15-DOGS 118 (Common Space Types:Storage)	171	0.63	108	16-LAUNDRY/STORAGE 117 (Common Space Types:Laundry/Washing Area)	108	0.43	46	19-EXAM #2/COMFORT 104 (Healthcare Facility:Exam/Treatment)	118	1.68	198	17-EXAM #1 103 (Healthcare Facility:Exam/Treatment)	99	1.68	166	19-EXAM #3 105 (Healthcare Facility:Exam/Treatment)	89	1.68	150	20-EXAM #4 110 (Healthcare Facility:Exam/Treatment)	91	1.68	153	21-EXAM #5 112 (Healthcare Facility:Exam/Treatment)	90	1.68	151	22-EXAM #6 113 (Healthcare Facility:Exam/Treatment)	90	1.68	151	23-EXAM #7 114 (Healthcare Facility:Exam/Treatment)	90	1.68	151	24-IT 108 (Common Space Types:Electrical/Mechanical)	21	0.43	9	25-JAN 107 (Common Space Types:Storage)	9	0.63	6	26-HOSP MGR (Common Space Types:Office - 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Proposed Interior Lighting Power				
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
BREAK 125 (Common Space Types:Lounge/Breakroom 202 sq.ft.)				
LED 1: H: Other:	1	4	30	120
TLT 126 (Common Space Types:Restrooms 56 sq.ft.)				
LED 1 copy 1: H: Other:	1	1	30	30
LED 3 K: Other:	1	1	25	25
HALL 127 (Common Space Types:Corridor/Transition <8 ft wide 261 sq.ft.)				
LED 4 copy 1: A: Other:	1	5	29	145
LED 33 B: Other:	1	1	24	24
WATER 129 (Common Space Types:Storage <50 sq.ft. 10 sq.ft.)				
LED 6 G: Other:	1	1	20	20
ISO 128 (Common Space Types:Laundry/Washing Area 105 sq.ft.)				
LED 4 copy 2: A: Other:	1	2	29	58
LED 32 M: Other:	1	1	44	44
DOCS 122 (Common Space Types:Copy/Print Room 117 sq.ft.)				
LED 4 copy 3: H: Other:	1	3	30	90
DENTAL 124 (Healthcare Facility:Operating Room 175 sq.ft.)				
LED 9 D: Other:	1	2	83	166
LED 39 copy 1: MED LIGHT: Other: Exemption:Medical/dental task lighting	1	2	100	Exempt
SURGERY 121 (Healthcare Facility:Operating Room 225 sq.ft.)				
LED 9 copy 1: D: Other:	1	4	83	332
LED 39 MED LIGHT: Other: Exemption:Medical/dental task lighting	1	4	100	Exempt
XRAY/ULTRASOUND 119 (Healthcare Facility:Imaging 116 sq.ft.)				
LED 4 copy 1: D: Other:	1	2	83	166
TREATMENT (Healthcare Facility:Recovery 275 sq.ft.)				
LED 4 copy 4: A: Other:	1	2	29	58
LED 9 copy 2 D: Other:	1	2	83	166
LED 39 copy 2 MED LIGHT: Other: Exemption:Medical/dental task lighting	1	2	100	Exempt
FOOD PREP 116 (Common Space Types:Corridor/Transition <8 ft wide 306 sq.ft.)				
LED 4 copy 5: A: Other:	1	5	29	145
LED 33 copy 1: B: Other:	1	1	24	24
LED 9 copy 3 D: Other:	1	1	83	83
LAB/RX (Healthcare Facility:Imaging 127 sq.ft.)				
LED 4 copy 6: A: Other:	1	2	29	58
LED 33 copy 2 B: Other:	1	1	24	24
HALL 102 (Common Space Types:Corridor/Transition <8 ft wide 119 sq.ft.)				
LED 4 copy 8 A: Other:	1	3	29	87
HALL 111 (Common Space Types:Corridor/Transition <8 ft wide 130 sq.ft.)				
LED 4 copy 7 A: Other:	1	3	29	87
DOGS 118 (Common Space Types:Storage 171 sq.ft.)				
LED 4 copy 8 L: Other:	1	2	47	94
LED 32 copy 1: M: Other:	1	4	44	176
LAUNDRY/STORAGE 117 (Common Space Types:Laundry/Washing Area 108 sq.ft.)				
LED 4 copy 9 H: Other:	1	3	30	90
EXAM #2/COMFORT 104 (Healthcare Facility:Exam/Treatment 118 sq.ft.)				
LED 4 copy 2 D: Other:	1	2	83	166
EXAM #1 103 (Healthcare Facility:Exam/Treatment 99 sq.ft.)				
LED 4 copy 3 D: Other:	1	2	83	166
EXAM #3 105 (Healthcare Facility:Exam/Treatment 89 sq.ft.)				

 | || Project Title: Lee's Summit Animal Hospital | |

DRAWN BY: RAS CHECKED BY: EJR



25760 First Street
Cleveland, OH 44145
P 440 871 2410
F 440 871 7954
tesengineering.com

CERTIFICATION



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PROJECT INFORMATION

LEE'S SUMMIT ANIMAL
HOSPITAL NORTH

810A NW COMMERCE DR
LEE'S SUMMIT, MO
64086

ISSUE DATES	
Volume 1	1991
Volume 2	1992
Volume 3	1993
Volume 4	1994
Volume 5	1995
Volume 6	1996
Volume 7	1997
Volume 8	1998
Volume 9	1999
Volume 10	2000
Volume 11	2001
Volume 12	2002
Volume 13	2003
Volume 14	2004
Volume 15	2005
Volume 16	2006
Volume 17	2007
Volume 18	2008
Volume 19	2009
Volume 20	2010
Volume 21	2011
Volume 22	2012
Volume 23	2013
Volume 24	2014
Volume 25	2015
Volume 26	2016
Volume 27	2017
Volume 28	2018
Volume 29	2019
Volume 30	2020
Volume 31	2021
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Volume 113	2103
Volume 114	2104
Volume 115	2105
Volume 116	2106
Volume 117	2107
Volume 118	2108
Volume 119	2109
Volume 120	2110
Volume 121	2111
Volume 122	2112
Volume 123	2113
Volume 124	2114
Volume 125	2115
Volume 126	2116
Volume 127	2117
Volume 128	2118
Volume 129	2119
Volume 130	2120
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Volume 133	2123
Volume 134	2124
Volume 135	2125
Volume 136	2126
Volume 137	2127
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Volume 140	2130
Volume 141	2131
Volume 142	2132
Volume 143	2133
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Volume 145	2135
Volume 146	2136
Volume 147	2137
Volume 148	2138
Volume 149	2139

PERMIT SET 04.01.21

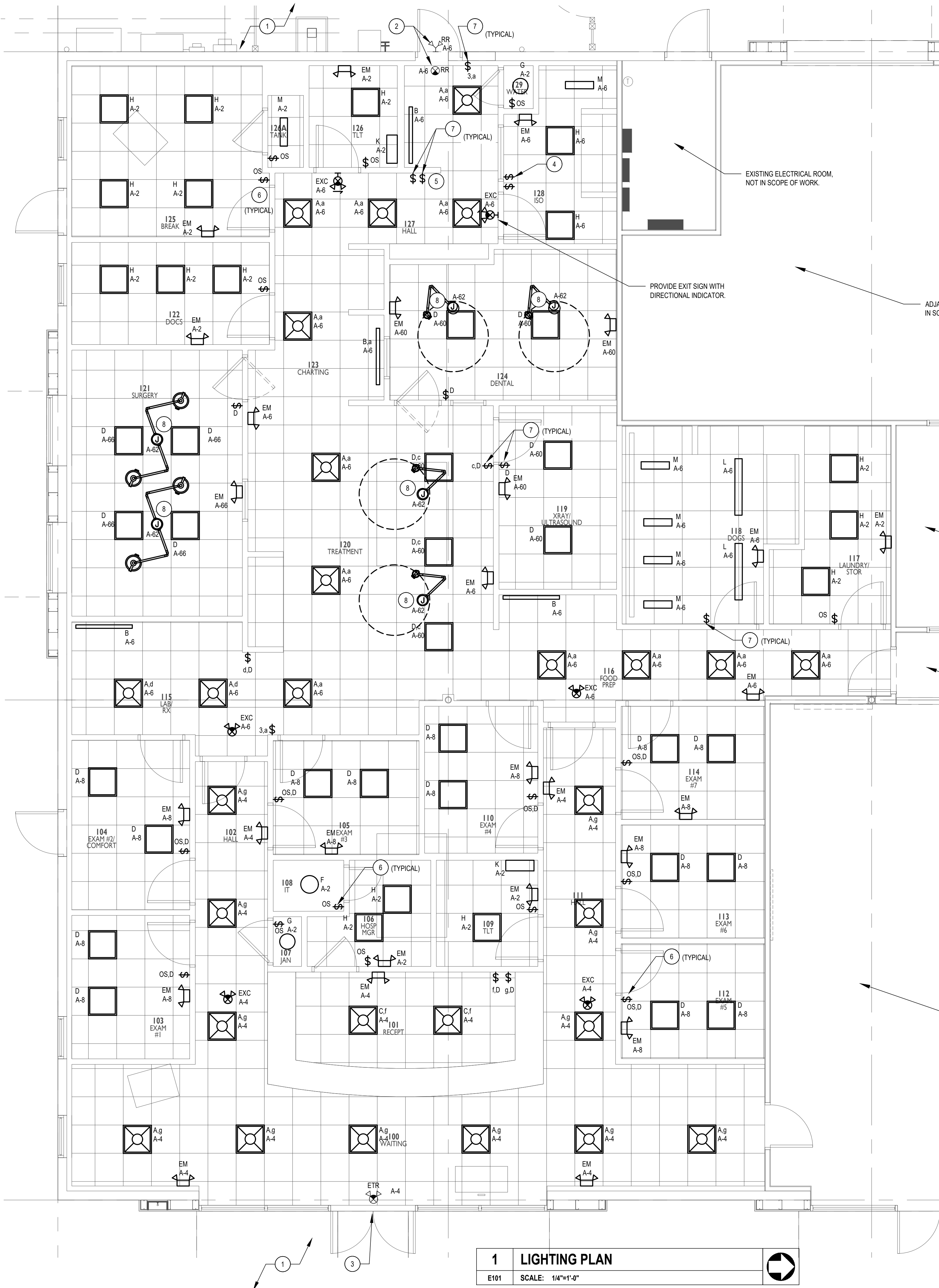
1 PERMIT REVIEW COMMENTS 04.21.21

210095ELECTRICAL ENERGY

CALCULATIONS

E004

E004



GENERAL LIGHTING NOTES

- A. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INCREASED WIRE SIZES DUE TO FIELD CONDITIONS RESULTING IN EXTENDING CONDUIT PATHS. GROUND WIRE SIZES ARE REQUIRED TO BE ADJUSTED PER ARTICLE 250 OF THE NEC WHEN WIRES ARE INCREASED FOR VOLTAGE DROP.
- B. ELECTRICAL CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR ALL LIGHT FIXTURE LOCATIONS.
- C. ALL BRANCH CIRCUIT WIRING SHALL BE #12 AWG UNLESS OTHERWISE NOTED. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL CONDUCTOR.

EXIT/EMERGENCY LIGHTING NOTES

- A. IN ADDITION TO THE EXIT IDENTIFICATION LIGHTS, SPACE MUST BE EQUIPPED WITH EMERGENCY ILLUMINATION. ALL EMERGENCY LIGHTS MUST BE UL APPROVED AND HAVE A CONVENIENCE TEST FEATURE. DURATION AND LIGHT LEVELS TO BE SPECIFIED BY FIRE AND BUILDING CODES.
- B. WIRE ALL NIGHT LIGHTING, EXIT SIGNS, EMERGENCY FIXTURES AHEAD OF LOCAL SWITCHING, UNLESS OTHERWISE NOTED.

SHEET KEYNOTES

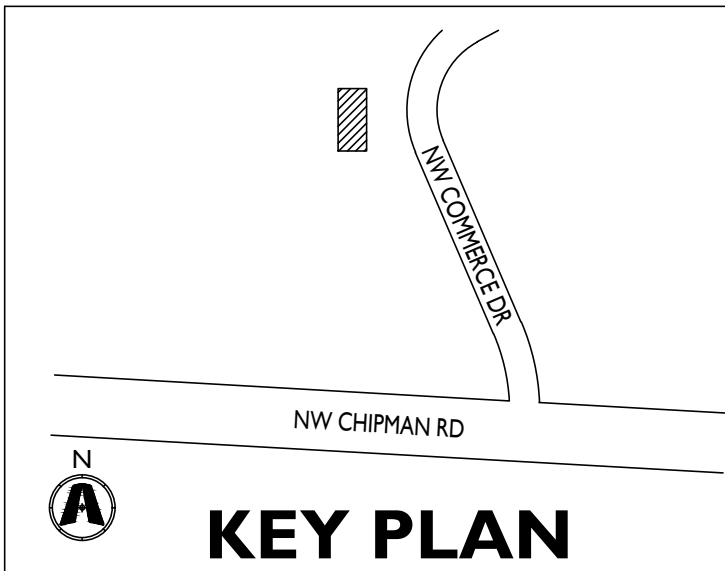
- 1. EXISTING EXTERIOR LIGHTS PROVIDED UNDER SHELL PACKAGE. LIGHTS POWERED AND CONTROLLED BY LANDLORD.
- 2. EXISTING EMERGENCY EXTERIOR LIGHT FIXTURE AND INTERIOR EXIT SIGN PROVIDED UNDER SHELL PACKAGE TO BE RELOCATED TO NEW EXTERIOR DOOR LOCATION. VERIFY LOCATION WITH ARCHITECT. RE-CIRCUIT AS SHOWN TO NEW TENANT PANELBOARD.
- 3. EXISTING EMERGENCY EXTERIOR LIGHT FIXTURE PROVIDED UNDER SHELL PACKAGE TO REMAIN. EXISTING IOTA 125W INVERTER TO SUPPLY REMOTE POWER FOR EXTERIOR EGRESS FIXTURE TO REMAIN. MAINTAIN LIGHT FIXTURE, EQUIPMENT, AND ALL ASSOCIATED CONDUIT AND WIRING FOR EMERGENCY EGRESS LIGHT.
- 4. E.C. TO PROVIDE SWITCH FOR CONTROL OF EF-1. E.C. TO LABEL SWITCH ACCORDINGLY.
- 5. LOCATION OF (2) OVERRIDE SWITCHES. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 6. OCCUPANCY SWITCHES ARE TO BE A STAND ALONE SYSTEM FROM THE RELAY PANEL LIGHTING CONTROLS.
- 7. E.C. TO COORDINATE WITH LIGHTING RELAY CONTROL PANEL MANUFACTURER AND PROVIDE APPLICABLE SWITCHES FOR CONTROL AS REQUIRED FOR A COMPLETE SYSTEM.
- 8. E.C. TO PROVIDE CONNECTION FOR MEDICAL ILLUMINATION LIGHTS. COORDINATE WITH MANUFACTURER FOR INSTALLATION REQUIREMENTS. VERIFY FINAL LOCATION OF JUNCTION BOX WITH OWNER AND MANUFACTURER PRIOR TO ROUGH-IN.

ADJACENT TENANT, NOT IN SCOPE OF WORK.

ADJACENT TENANT, NOT IN SCOPE OF WORK.

ADJACENT TENANT, NOT IN SCOPE OF WORK.

1 LIGHTING PLAN
E101 SCALE: 1/4"=1'-0"



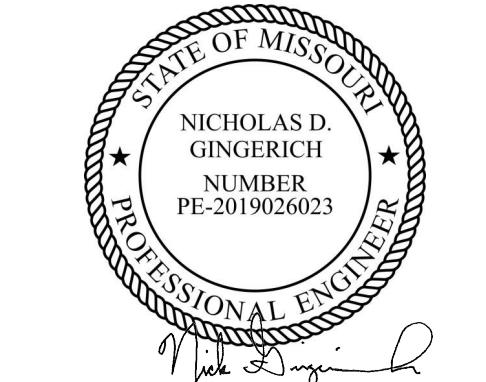
CURRAN
ARCHITECTURE
5719 LAWTON LOOP E. DR.
#212 INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

DRAWN BY: RAS CHECKED BY: EJR



25760 First Street
Cleveland, OH 44145
P 440 871 2410
F 440 871 7954
tesengineering.com

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PROJECT INFORMATION

LEE'S SUMMIT ANIMAL HOSPITAL NORTH

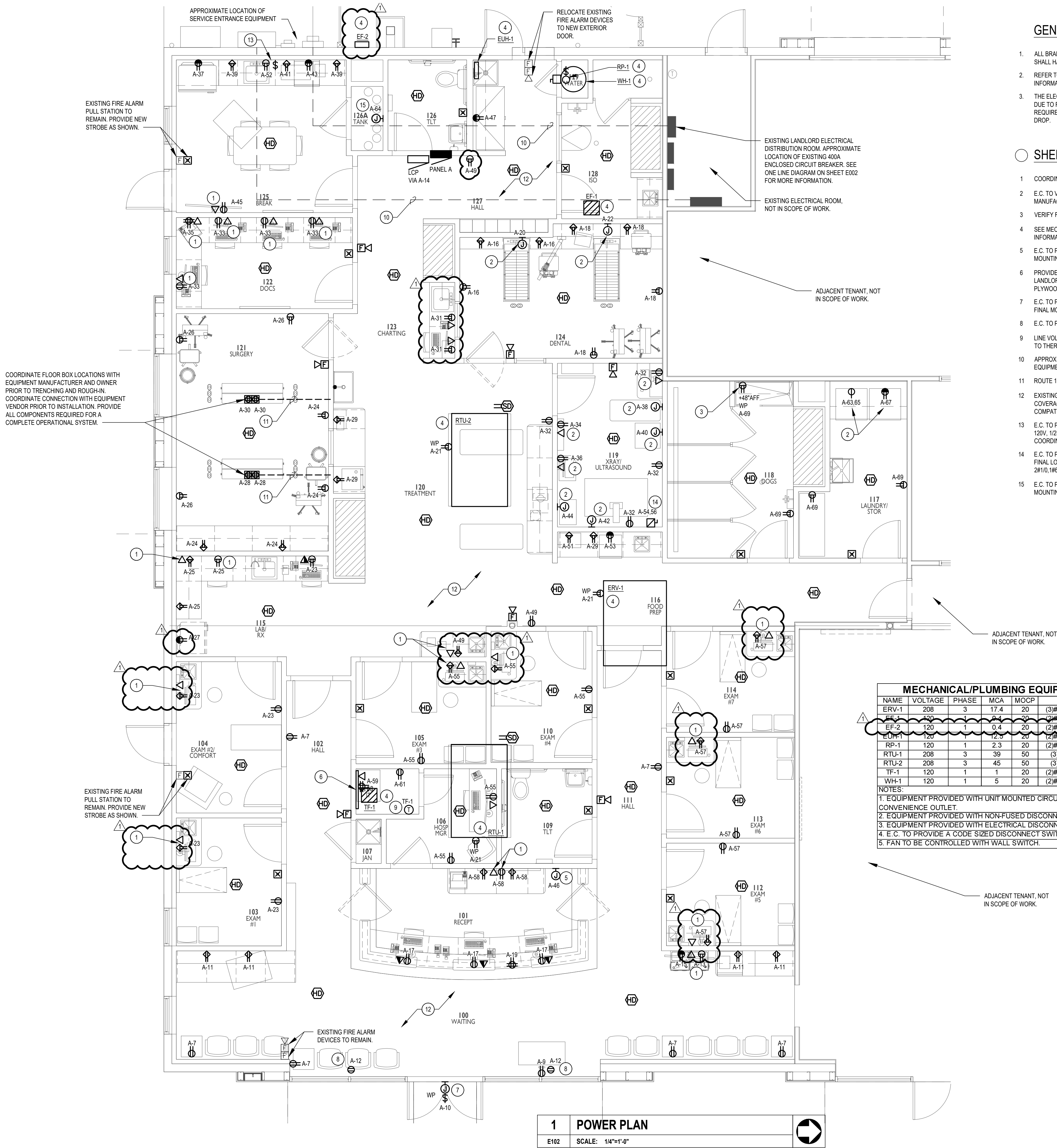
810A NW COMMERCE DR
LEE'S SUMMIT, MO
64086

ISSUE DATES

PERMIT SET	04.01.21
PERMIT REVIEW COMMENTS	04.21.21

210095
LIGHTING PLAN

E101



GENERAL SHEET NOTES

- ALL BRANCH CIRCUIT WIRING SHALL BE #12 AWG UNLESS OTHERWISE NOTED. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL CONDUCTOR.
- REFER TO EQUIPMENT CONNECTION SCHEDULE ON THIS SHEET FOR CIRCUITING AND ADDITIONAL INFORMATION.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INCREASED WIRE SIZES DUE TO FIELD CONDITIONS RESULTING IN EXTENDING CONDUIT PATHS. GROUND WIRE SIZES ARE REQUIRED TO BE ADJUSTED PER ARTICLE 250 OF THE NEC WHEN WIRES ARE INCREASED FOR VOLTAGE DROP.

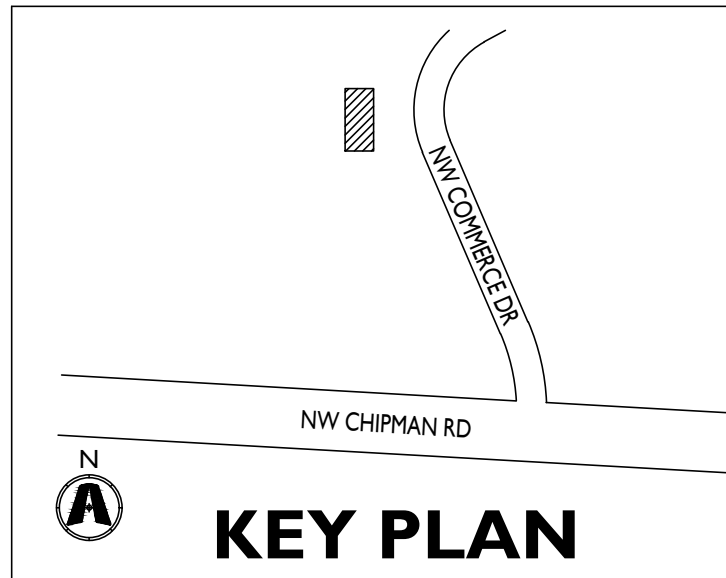
SHEET KEYNOTES

- COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.
- E.C. TO VERIFY POWER REQUIREMENTS WITH MANUFACTURER. COORDINATE INSTALLATION WITH MANUFACTURER.
- VERIFY FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
- SEE MECHANICAL/PLUMBING EQUIPMENT CONNECTION SCHEDULE THIS SHEET FOR MORE INFORMATION.
- E.C. TO PROVIDE POWER FOR MEDICAL GAS CONTROL PANEL AT 120V. VERIFY CONNECTIONS, MOUNTING HEIGHT, LOCATION, AND REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.
- PROVIDE 3'X4'X3/4" FIRE RATED PLYWOOD BACKBOARD, E.C. TO PROVIDE 2"C WITH PULL STRING FROM LANDLORD ELECTRICAL ROOM/MAIN BUILDING TELEPHONE BOARD. PROVIDE #6 GND AT FIRE RATED PLYWOOD TELEPHONE BACKBOARD.
- E.C. TO PROVIDE JUNCTION BOX AND LOCAL WP DISCONNECT SWITCH FOR EXTERIOR SIGNAGE. VERIFY FINAL MOUNTING HEIGHT AND LOCATION PRIOR TO ROUGH-IN.
- E.C. TO PROVIDE SHOW WINDOW RECEPTACLE LOCATED PER NEC 210.62.
- LINE VOLTAGE THERMOSTAT PROVIDED BY THE MC, E.C. TO PROVIDE CONDUIT AND WIRING FROM EF-1 TO THERMOSTAT.
- APPROXIMATE ROUTING OF EXISTING CONDUIT RUN UNDER SLAB FROM EXTERIOR ELECTRICAL EQUIPMENT TO EXISTING LANDLORD ELECTRICAL ROOM.
- ROUTE 1" C AND WIRING TO NEAREST WALL. VERIFY ROUTING IN FIELD.
- EXISTING BUILDING FIRE ALARM SYSTEM TO REMAIN. PROVIDE NEW NOTIFICATION DEVICES FOR COVERAGE. COORDINATE EXISTING SYSTEM REQUIREMENTS IN FIELD. NEW DEVICES SHALL BE COMPATIBLE WITH EXISTING EQUIPMENT.
- E.C. TO PROVIDE A RECEPTACLE UNDER SINK FOR FOOD WASTE DISPOSAL. FOOD WASTE DISPOSAL 120V, 1/2HP. PROVIDE A SWITCH ABOVE COUNTER FOR CONTROL OF RECEPTACLE AND DISPOSAL. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- E.C. TO PROVIDE 200A, 2P, FUSED DISCONNECT SWITCH WITH 150AF FOR X-RAY MACHINE. COORDINATE FINAL LOCATION AND POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. PROVIDE 2#10, #6 GND IN 2"C
- E.C. TO PROVIDE POWER FOR OXYGEN MANIFOLD CONTROLLER AT 120V. VERIFY CONNECTIONS, MOUNTING HEIGHT, LOCATION, AND REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

MECHANICAL/PLUMBING EQUIPMENT CONNECTION SCHEDULE									
NAME	VOLTAGE	PHASE	MCA	MOCP	CONDUIT/WIRE	PANEL	CIRCUIT #	NOTES	
ERV-1	208	3	17.4	20	(3)#12 (1)#12GND-3/4"C	A	74, 76, 78	2	
EF-1	120	1	0.4	20	(2)#12 (1)#12GND-3/4"C	A	5	3	
EF-2	120	1	0.4	20	(2)#12 (1)#12GND-3/4"C	A	68	3	
EUH-1	120	1	12.5	20	(2)#12 (1)#12GND-3/4"C	A	1	3	
RP-1	120	1	2.3	20	(2)#12 (1)#12GND-3/4"C	A	3	4	
RTU-1	208	3	39	50	(3)#6 (1)#10GND-1"C	A	79, 81, 83	1	
RTU-2	208	3	45	50	(3)#6 (1)#10GND-1"C	A	80, 82, 84	1	
TF-1	120	1	1	20	(2)#12 (1)#12GND-3/4"C	A	50	3	
WH-1	120	1	5	20	(2)#12 (1)#12GND-3/4"C	A	5	4	

NOTES:

- EQUIPMENT PROVIDED WITH UNIT MOUNTED CIRCUIT BREAKER DISCONNECT & UNPOWERED CONVENIENCE OUTLET.
- EQUIPMENT PROVIDED WITH NON-FUSED DISCONNECT SWITCH.
- EQUIPMENT PROVIDED WITH ELECTRICAL DISCONNECT.
- E.C. TO PROVIDE A CODE SIZED DISCONNECT SWITCH.
- FAN TO BE CONTROLLED WITH WALL SWITCH.



5719 LAWTON LOOP E. DR.
#212 INDIANAPOLIS, IN 46216
O :: 317 . 288 . 0681
F :: 317 . 288 . 0753

DRAWN BY: RAS CHECKED BY: EJR



25760 First Street
Cleveland, OH 44145
P 440 871 2410
F 440 871 7954
tesengineering.com

CERTIFICATION



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PROJECT INFORMATION

LEE'S SUMMIT ANIMAL HOSPITAL NORTH

810A NW COMMERCE DR
LEE'S SUMMIT, MO
64086

ISSUE DATES

PERMIT SET 04.01.21
PERMIT REVIEW COMMENTS 04.21.21

210095
POWER PLAN

E102