MARCH 1, 2023
PERMIT SET

Summer Moon COFFEE

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LEE'S SUMMIT, MO 64086

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PROJECT LOCATION

VICINITY MAP NORTH

@	
@	AT
A	
A	ACRE
A/C	AIR CONDITION(ING) (ED)
A/C UNIT	AIR CONDITIONING UNIT
AB	ANCHOR BOLT
ABBVR	ABBREVIATION
ABV	ABOVE
ACC	ACCESSIBLE
ACCU	AIR COOLED CONDENSING UNIT
ACI	AMERICAN CONCRETE INSTITUTE
ACOUS	ACOUSTICAL
ACOUS INSUL	ACOUSTICAL INSULATION
ACOUS PNL	ACOUSTICAL PANEL
ACST	ACOUSTIC
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT OF 1992
ADDL	ADDITIONAL
ADDM	ADDENDUM
ADH	ADHESIVE
ADJ	ADJUSTABLE, ADJACENT
AE	ARCHITECT/ ENGINEER
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISHED GRADE
AGG	AGGREGATE
AHJ	AUTHORITIY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIA	AMERICAN INSTITUTE OF ARCHITECTS OR AMERICAN INSURANCE ASSOCIATION
AIEE	AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN AND STEEL INSTITUTE
ALT	ALTERNATE
ALUM	ALUMINUM
ANC	ANCHOR
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSITUTE
APC	ACOUSTICAL PANEL CEILING
APT	APARTMENT
APX	APPROXIMATE
ARCH	ARCHITECT (ARCHITECTURAL)
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AUTO	AUTOMATIC
AVE	AVENUE
AVR	AVERAGE
AWG	AMERICAN WIRE GAUGE
AWN	AWNING
AWT	ACOUSTICAL WALL TREATMENT
B	
B BD	BASE BOARD
B.O.F.	BOTTOM OF FOOTING
B.O.M	BILL OF MATERIAL
B.O.W.	BOTTOM OF WALL
B/B	BACK-TO-BACK
B/O	BY OTHERS
BAT	BATTEN
BD	BOARD
BDRM	BEDROOM
BITUM	BITUMINOUS
BLDG	BUILDING
BLDV	BOULEVARD
BLK	BLOCK
BLKG	BLOCKING
BLW	BELOW
BM	BENCHMARK, BEAM
BO	BOTTOM OF
BOT	BOTTOM
BP	BLUE PRINT (OR B/P)
BR	BEDROOM
BRG	BEARING
BRZ	BRONZE
BSMT	BASEMENT
BTW	BETWEEN
BTWN	BETWEEN
BUR	BUILT-UP ROOFING
BV	BUTTERFLY VALVE
BVL	BEVELED
BW	BOTH WAYS
C	
C.C.	CENTER TO CENTER
C.D.	CONSTRUCTION DOCUMENT
C.F.M.	CUBIC FEET PER MINUTE
C.O.	CLEANOUT
CAB	CABINET
CAD	CADMIUM OR COMPUTER-AIDED DRAFTING
CALC	CALCULATION
CAS	CASEMENT
CB	CARRIAGE BOLT, CATCH BASIN
CBORE	COUNTERBORE
CCTV	CLOSED-CIRCUIT TELEVISION
CD	CABINET DOOR
CD	CONSTRUCTION DOCUMENTS, CONTRACT DOCUMENTS
CEM	CEMENT
CERT	CERTIFY, CERTIFICATE, CERTIFICATION
CF/CI	CONRACTOR FURNISHED/ CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED
CFCI	GROUND-FAULT CIRCUIT-INTERRUPTER
CFS	CUBIC FEET PER SECOND
CG	CORNER GUARD
CH	COAT HOOK
CHBD	CHALK BOARD
CHEM	CHEMICAL
CI	CAST IRON
CIP	CAST-IN-PLACE
CIR	CIRCLE
CJ	CONTROL JOINT, CONSTRUCTION JOINT
CJT	CONTROL JOINT
CL	CENTERLINE
CL	CLOSET
CLG	CEILING
CLK	CAULKING
CLO	CLOSET
CLR	CLEAR
CLRM	CLASSROOM
CM	CENTIMETER
CMU	CONCRETE MASONRY UNIT
CNR	CORNER
CNTR	COUNTER
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECT(IION)
CONST	CONSTRUCT
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACT (OR)
COORD	COORDINATE, COORDINATION
CORR	CORRIDOR, CORRUGATED
CPT	CARPET
CRES	CORROSION-RESISTANT STEEL
CRPT	CARPET
CSINK	COUNTERSINK
CSK	COUNTERSINK
CSWK	CASEWORK
CT	CERAMIC TILE
CTR	CENTER
CTRL	CONTROL
CU	CUBIC
CUFT	CUBIC FOOT
CUH	CABINET UNIT HEATER
CUST	CUSTODIAL
CUYD	CUBIC YARD
CW	COLD WATER, CASEMENT WINDOW
D	
D	DEEP, DEPTH
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA or Ø	DIAMETER
DIFF	DIFFERENCE
DIM	DIMENSION
DIR	DIRECTION
DISP	DISPENSER
DIST	DISTANCE
DIV	DIVIDE, DIVISION
DL	DEAD LOAD
DMPF	DAMPPROOFING
DMPR	DAMPER
DN	DOWN
DO	DITTO
DOC	DOCUMENT
DOZ	DOZEN
DP	DAMPPROOFING
DR	DOOR
DRWR	DRAWER
DS	DOWNSPOUT
DSGN	DESIGN
DT	DRAIN TILE
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
E	
E	EAST
E.F.	EXHAUST FAN
EA	EACH
EC	ELECTRICAL CONTRACTOR
ED	EDGE DISTANCE
EF	EACH FACE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEM	ELEMENTARY
ELEV	ELEVATION
ELEV	ELEVATOR
ENAM	ENAMEL
ENCL	ENCLOSURE
ENGR	ENGINEER
ENVIR	ENVIRONMENT
EOS	EDGE OF SLAB
EP	ELECTRIC PANEL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPS	EXPANDED POLYSTYRENE BOARD
EQ	EQUAL
EQP	EQUIPMENT
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ETC	ET CETERA
ETR	EXISTING TO REMAIN
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXC	EXCAVATE
EXCV	EXCAVATE
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPAND, EXPANSION
EXT	EXTERIOR
F	
F.C.O.	FLOOR CLEANOUT
F/F	FACE-TO-FACE
FA	FIRE ALARM
FAAP	FIRA ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAO	FINISH ALL OVER
FBD	FIBERBOARD
FBO	FURNISHED BY OTHERS
FCB	FIBER CEMENT BOARD
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FINISHED FLOOR ELEVATION
FFL	FINISHED FLOOR LEVEL
FGL	FIBERGLASS
FIN	FINISH
FIXT	FIXTURE
FL	FLOOR LEVEL
FLOR	FLUORESCENT
FLOUR	FLOURESCENT
FLR	FLOOR
FLSH	FLASHING
FND	FOUNDATION
FNDN	FOUNDATION
FO	FINISHED OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FOW	FACE OF WALL
FPL	FIREPLACE
FRJS	FIRE RESISTIVE JOINT SYSTEM
FRM	FRAM(D)
FRP	FIBERGLASS REINFORCED PLASTIC
FRPF	FIREPROOF
FRTW	FIRE RETARDANT TREATED WOOD
FS	FAR SIDE
FT	FOOT, FEET
FTG	FOOTING, FITTING
FUR	FURRED
FURN	FURNITURE
FW	FIRE WALL
FWC	FABRIC WALL COVERING
G	
G.T.	GLAZED TILE
GA	GAGE
GAL	GALLON
GALV	GALVANIZED
GALV STL	GALVANIZED STEEL
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL, GENERATOR
GF	GROUND-FAULT CIRCUIT-INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFRC	GLASS FIBER RINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GI	GALVANIZED IRON
GL	GLASS, GROUND LEVEL
GL BLK	GLASS BLOCK
GLB	GLUE LAMINATED BEAM
GLBK	GLASS BLOCK
GLU LAM	GLUED LAMINATED BEAM
GLZ	GLAZING
GPM	GALLONS PER MINUTE
GRD	GRADE
GSF	GROSS SQUARE FEET
GT	GROUT
GWB	GYPSUM WALL BOARD
GWT	GLAZED WALL TILE
GYM	GYMNASIUM
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER
H	
HB	HOSE BIB
HB	HOSE BIBB
HC	HANDICAP, HOLLOW CORE
HCP	HANDICAPPED
HD	HEAVY DUTY
HDCP	HANDICAPPED (BETTER IF REFERRED TO AS "ACCESSIBLE")
HDPE	HIGH-DENSITY POLYETHYLENE
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HO	HOLD OPEN
HOR	HORIZONTAL
HORIZ	HORIZON
HR	HOUR
HRS	HOT ROLLED STEEL
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HTG	HEATING
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HW	HOT WATER
HWD	HARDWARE
HYD	HYDRANT
I	
IAW	IN ACCORDANCE WITH
ID	INNER DIAMETER
IE	INVERT ELEVATION
IN	INCH
IN	INCH, INCHES
INCAND	INCANDESCENT
INCL	INCLUDE
INFO	INFORMATION
INS	INSULATE
INSUL	INSULATION
INT	INTERIOR
INTERM	INTERMEDIATE
INV	INVERT
ISO	INTERNATIONAL ORGANIZATION FOR STANDARDS
J	
J-BOX	JUNCTION BOX
JAN	JANITOR
JAN CLO	JANITOR CLOSET
JCT	JUNCTION
JNT	JOINT
JR	JUNIOR
JST	JOIST
K	
KD	KILN DRIED, KNOCK DOWN
KIP	1000 POUNDS
KIT	KITCHEN
KM	KILOMETER
KO	KNOCK OUT
KPL	KICK PLATE
KW	KILOWATT
L	
L	LENGTH, LITER, ANGLE
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
LB	POUND
LBL	LABEL
LBS	POUND
LD	LOAD
LDD	LIMITED DIMENSION DRAWING
LF	LINEAL FEET, LINEAR FEET
LFT.	LINEAR FEET
LH	LATENT HEAT, LEFT HAND
LIB	LIBRARY
LIN	LINEAR
LKR	LOCKER
LKR RM	LOCKER ROOM
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LM	LIST OF MATERIALS
LOA	LENGTH OVERALL
LT	LINOLEUM TILE, LIGHT
Lt.	LIGHT
LTG	LIGHTING
LVL	LAMINATED VENEER LUMBER
LVR	LOUVER
M	
M	METER
MACH	MATCHLINE
MACH RM	MACHINE ROOM
MAHOG	MAHOGANY
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBR	MEMBER
MBW	MEASUREMENT BETWEEN WIRES
MC	MEDICINE CABINET, MECHANICAL CONTRACTOR
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
ME	MATCH EXISTING
MECH	MECHANICAL, MECHANIC
MECH RM	MECHANICAL ROOM
MED	MEDIUM
MFG	MANUFACTURING
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MKR BD	MARKERBOARD
MLB	MICRO LAMINATE BEAM
MLD	MOULDING
MM	MILIMETER
MMB	MEMBRANE
MO	MASONRY OPENING
MOD	MODULE
MOD BIT	MODIFIED BITUMEN
MOW	MEASUREMENT OVER WIRES
MTD	MOUNTED
MTL	METAL, MATERIAL
MULL	MULLION
MWK	MILLWORK
N	
N	NORTH
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO or #	NUMBER
NOM	NOMINAL
NORM	NORMAL
NSF	NET SQUARE FEET
NTS	NOT TO SCALE
O	
O	NON-OPERABLE WINDOW SECTION
O/A	OVERALL
O/O	OUT TO OUT
OAL	OVERALL LENGTH
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/ OI	OWNER FURNISHED/ OWNER INSTALLED
OF/CI	OWNER FURNISEHD/ CONTRACTOR INSTALLED
OFF	OFFICE
OH	OVERHANG
OH DR	OVERHEAD DOOR
OP	OPAQUE
OPG	OPENING
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OPT	OPTIONAL, OPTIMUM
OSB	ORIENTATED STRAND BOARD
P	
P.L.	PROPERTY LINE (OR PARTS LIST)
PA	PUBLIC ADDRESS
PAR	PARALLEL
PART	PARTIAL
PAT	PATTERN
PBD	PARTICLE BOARD
PBF	PREFABRICATED
PC	PLUMBING CONTRACTOR
PCC	PORTLAND CEMENT CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCS	PIECES
PERF	PERFORATE, PERFORATED
PERIM	PERIMETER
PH	TOILET PAPER HANGER
PL	PLATE, PROPERTY LINE
PL GL	PLATE GLASS
PL.	PLASTER
PLAM	PLASTIC LAMINATE
PLAS	PLASTER, PLASTIC
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLT	PLATE
PLYWD	PLYWOOD
PMT	PAINT(ED)
PNL	PANEL
POL	POLISHED
POLY	POLYETHYLENE (PLASTIC)
PORC	PORCELAIN
PORT	PORTABLE
POS	POSITIVE
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRELIM	PRELIMINARY
PRF	PREFORMED
PRKG	PARKING
PROJ	PROJECT
PROP	PROPERTY
PRT	PARTITION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST TENSIONED, PRESSURE TREATED
PTD	PAPER TOWER DISPENSER
Ptd.	PAINTED
PTN	PARTITION
PVC	POLYVINYL CHLORIDE (PLASTIC)
PVMT	PAVEMENT
PWR	POWER
Q	
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY
R	
R	RISER, RADIUS, HEAT RESISTANCE
R&S	ROD AND SHELF
R.D.L.	ROOF DRAIN LEADER
RA	RETURN AIR
RAD	RADIUS, RADIATOR
RB	RUBBER BASE, RESILIENT BASE
RC	REINFORCED CONCRETE
RC	ROOFING CONTRACTOR
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN, ROD
RE	REINFORCED
REBAR	REINFORCING BAR
REC	RECESSED
REC RM	RECREATION ROOM
REF	REFERENCE, REFRIGERATOR
REFR	REF
REG	REGISTER, REGULATION
REINF	REINFORCE(ED)
REQD	REQUIRED
REQ'D	REQUIRED
RESIL	RESILIENT
REV	REVISION
RFG	ROOFING
RFI	REQUEST FOR INFORMATION
RFL	REFLECT(ED)
RFP	REQUEST FOR PROPOSAL
RH	RIGHT HAND, ROOF HATCH
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTF	RUBBER TILE FLOOR
RTU	ROOF TOP UNIT
RV	ROOF VENT
RW	RESCUE WINDOW
RWB	RUBBER WALL BASE
S	
S	SOUTH
S.D.	SMOKE DETECTOR
SA	SUPPLY AIR
SAB	SOUND ATTENUATION BATTS
SAN	SANITARY
SC	SOLID CORE, SHADING COEFFICIENT
SCH	SCHEDULE
SCHED	SCHEDULE
SCN	SCREEN
SD	SOAP DISPENSER, SMOKE DETECTOR
SECT	SECTION
SF	SQUARE FOOT, SAFETY FACTOR
SGD	SLIDING GLASS DOOR
SGT	STRUCTURAL GLAZED TILE
SH	SHELF
SHR	SHOWER
SHT	SHEET
SHTG	SHEATHING
SHTH	SHEATHING
SIM	SIMILAR
SKL	SKYLIGHT
SLB	SLAB
SLD	SLIDER(ING)
SND	SANITARY NAPKIN DISPENSER
SOG	SLAB ON GRADE
SPC	SUSPENDED SPLASTER CEILING
SPEC	SPECIFICATION(S)
Specs.	SPECIFICATIONS
SPKR	SPEAKER
SQ	SQUARE
SQ. FT.	SQUARE FEET
SQ. IN.	SQUARE INCHES
SS	STAINLESS STEEL
SST	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STR	STRUCTURAL
STRM	STOREROOM
STRUCT	STRUCTURAL
STV	STOVE
SUB	SUBSTITUTE
SUB FL	SUBFLOOR
SUSP	SUSPENDED
SUSP CLG	SUSPENDED CEILING
SV	SAFETY VALVE, SHEET VINYL
SW	SHEAR WALL
SWBD	SWITCHBOARD
SY	SQUARE YARD
SYM	SYMBOL
SYS	SYSTEM
T	
T	TREAD
T & B	TOP AND BOTTOM
T & G	TONGUE AND GROOVE
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T.O.	TOP OF
T.O.B.	TOP OF BEAM
T.O.C.	TOP OF CURB OR TOP OF CONCRETE
T.O.F.	TOP OF FOOTING
T.O.J.	TOP OF JOIST
T/O	TOP OF
TB	THROUGH BOLT, TOWEL BAR
TECH	TECHNICAL, TECHNOLOGY
TEL	TELEPHONE
TEMP	TEMPORARY, TEMPERATURE, TEMPERED
TERR	TERRAZZO
THERM	THERMAL
THK	THICKNESS
THRU	THROUGH
TK	TIGHT KNOT
TK BD	TACK BOARD
TMPD	TEMPERED
TMPD GL	TEMPERED GLASS
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING, TOP OF FLOOR, TOP OF FRAME
TOM	TOP OF MASONRY
TOPO	TOPOGRAPHY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TS	TUBULAR STEEL
TTC	TELEPHONE TERMINAL CLOSET
TV	TELEVISION
TYP	TYPICAL
U	
U	HEAT TRANSFER COEFFICIENT
UC	UNDERCUT
UGND	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UNF	UNFINISHED
UNFIN	UNFINISH(ED)
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UTIL	UTILITY
UV	UNIT VENTILATOR
V	
V	VOLT
V.B.	VAPOR BARRIER
VA.	VOLTAGE
VAR	VARIES, VARIATION, VARNISH
VB	VAPOR BARRIER, VINYL BASE
VCT	VINYL COMPOSITE TILE
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VG	VERTICAL GRAIN
VIF	VERIFY IN FIELD
VIN	VINYL SHEET
VOC	VOLATILE ORGANIC COMPOUND
VOL	VOLUME
VR	VAPOR RETARDER
VRN	VENEER
VUH	VERTICAL UNIT HEATER
VWC	VERTICAL WALL COVERING
W	
W	WATT, WEST, WIDTH
W.C.	WATER CLOSET (TOILET)
W.I.C.	WALK-IN CLOSET
W/	WITH
W/O	WITHOUT
WW	WALL TO WALL
WB	WOOD BASE
WC	WALL COVERING, WATER CLOSET
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WH	WATER HEATER, WALL HUNG
WI	WROUGHT IRON
WIN	WINDOW
WL	WALL, WATER LEVEL
WM	WIRE MESH
WP	WATER PROOFING, WEATHERPROOF
Wp.	WEATHERPROOF
WR	WATER REPELENT, WEATHER RESISTANT
WRB	WEATHER RESISTIVE BARRIER
WS	WEATHERSTRIPPING OR WATER STOP
WSCT	WAINSCOT
WT	WEIGHT
WT HT	WATER HEATER
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
X	
X	BY
X	OPERABLE WINDOW SECTION
Y	
Y	YD

ABBREVIATIONS

SCALE: NTS

1. ALL WORK SHALL CONFORM WITH APPLICABLE BUILDING CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS.
2. INFORMATION ON THE DRAWINGS REGARDING EXISTING CONDITIONS IS BASED UPON DRAWINGS FURNISHED BY THE OWNER. THE INFORMATION IS BELIEVED TO BE AN ACCURATE REFLECTION OF THE EXISTING CONDITIONS BUT IS IN NO WAY INTENDED TO GUARANTEE EXACT CONDITIONS.
3. CONTRACTOR AND/OR SUPPLIER SHALL FIELD VERIFY DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION OF NEW ASSEMBLIES, PRODUCTS, AND EQUIPMENT.
4. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES TO THE ARCHITECT IMMEDIATELY. FAILURE OF THE CONTRACTOR TO PERFORM SURVEY, FIELD VERIFY CONDITIONS, AND COORDINATE WORK DOES NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR WORK.
5. CONTRACTOR SHALL TAKE PRECAUTIONS TO MAINTAIN AND PROTECT EXISTING SYSTEMS AND FINISHES WHICH ARE TO REMAIN. ANY DAMAGES TO SUCH SYSTEMS AND FINISHES SHALL BE REPAIRED IN A MANNER ACCEPTABLE TO THE ARCHITECT AT THE CONTRACTOR'S EXPENSE.
6. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION AND THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND VISITORS.
7. ALL FIRE, LIFE-SAFETY SYSTEMS MUST BE MAINTAINED IN PROPER WORKING ORDER THROUGHOUT THE DURATION OF THE WORK. PORTABLE FIRE EXTINGUISHERS OF APPROVED TYPE ARE TO BE PLACED WITHIN THE CONSTRUCTION AREA IN ACCORDANCE WITH THE LOCAL FIRE DEPARTMENT INSPECTOR OR MARSHAL.
8. THE CONSTRUCTION DOCUMENTS REPRESENT A STABLE STRUCTURE IN THE COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY BRACING AND/OR SHORES TO SAFELY DECONSTRUCT AND CONSTRUCT THE BUILDING AND PREVENT DAMAGE DURING CONSTRUCTION.
9. "TYPICAL" / "TYP." AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITIONS OR DIMENSION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT.
10. "SIM." AS USED IN THESE DOCUMENTS IS REPRESENTATIVE FOR SIMILAR OR OPPOSITE HAND, MIRRORED, CONDITIONS.
11. ALL DISSIMILAR METAL MATERIALS SHALL BE ISOLATED WITH AN APPROVED NON-METAL ISOLATION MATERIAL.
12. REFER TO LIFE SAFETY DRAWINGS FOR LOCATIONS OF FIRE RATED WALLS. ASSEMBLIES NOTED TO BE FIRE-RATED (ONE HOUR, TWO HOUR, ETC.) SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE FIRE TEST REFERENCED OR, IF NO TEST IS REFERENCED, AN INDUSTRY RECOGNIZED FIRE-TEST APPLICABLE TO THE ASSEMBLY.
13. REFER TO ALL OTHER DISCIPLINE'S DRAWINGS FOR MORE INFORMATION THAT MAY NOT BE IN A SINGLE DISCIPLINE'S DRAWING SET. CONTRACTOR TO NOTIFY AND COORDINATE WITH ARCHITECT ANY ISSUES THAT CONFLICT WITH THE NEW WORK.

GENERAL PROJECT NOTES

SCALE: NTS

KEY NOTE (PX)

PARTITION TYPE (S6A)

EQUIPMENT/ACCESSORY TAG (XX)

SIGNAGE MARK AND LOCATION (XXX)

FINISH FLOOR REFERENCE (XXX / XXX)

PROPERTY LINE (PL)

GRID BUBBLE REFERENCE (X)

BLDG. SECTION REFERENCE (1 / A101, SIM)

WALL SECTION REFERENCE (1 / A101, SIM)

DETAIL SECTION REFERENCE (1 / A101, SIM)

EXTERIOR ELEVATION REFERENCE (VIEW NO / SHEET NO)

INTERIOR ELEVATION REFERENCE (VIEW NO/SHEET NO)

FIXED REFERENCE ELEVATION OR DATUM (NAME / ELEV.)

SPOT ELEVATION (NAME / ELEV.)

NORTH ARROW REFERENCE (NORTH)

TRUE NORTH ARROW REFERENCE (TRUE NORTH)

DOOR MARK REFERENCE (100 A)

ASSOCIATED ROOM NUMBER

ROOM TAG (Room name 101, 150 SF)

SYMBOLS

SCALE: NTS

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/15/2023

YAEGER ARCHITECTURE

STATE OF MISSOURI — CARL JOSEPH YAEGER — NUMBER A-006753 — REGISTERED ARCHITECT
2/16/23

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699 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

Summer Moon COFFEE

PROJECT NO:	22056
DATE:	2023-02-17
DRAWN BY:	
CHECKED BY:	
CHECKED BY:	

REVISED DATE	DESCRIPTION

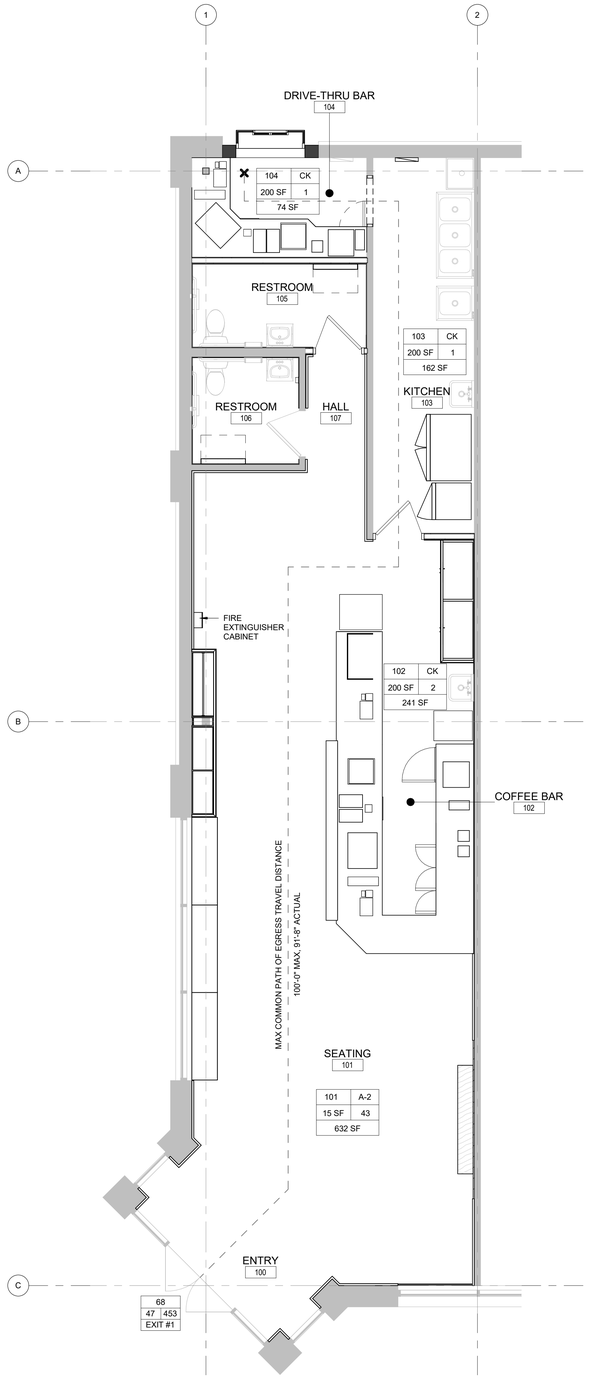
ABBREVIATIONS SYMBOLS AND GENERAL NOTES

A-001

FILE PATH: Autodesk Docs://22056 Summer Moon Coffee/22056_SUMMER MOON_R23.rvt
PLOT DATE: 2/17/2023 11:52:25 AM
SHEET SIZE: ARCH E1 30" x 42"

CODE ANALYSIS 2018

CODE ANALYSIS:		
TYPE OF CONSTRUCTION:		INTERIOR REMODEL
FACILITY NAME:		SUMMER MOON COFFEE
FACILITY ADDRESS:		699 NW BLUE PARKWAY
		LEE'S SUMMIT, MO 64086
CODE REGULATIONS:		
BUILDING CODE:		2018 INTERNATIONAL BUILDING CODE
MECHANICAL CODE:		2018 INTERNATIONAL MECHANICAL CODE
PLUMBING CODE:		2018 INTERNATIONAL PLUMBING CODE
ELECTRICAL CODE:		2017 NATIONAL ELECTRICAL CODE
GAS CODE:		2018 INTERNATIONAL FUEL GAS CODE
FIRE PREVENTION:		2018 INTERNATIONAL FIRE CODE
OCCUPANCY CLASSIFICATION:	(SECTION 302)	GROUP B BUSINESS
CONSTRUCTION TYPE:	(TABLE 504.3)	V-B
SPRINKLERS:	(SECTION 903)	TENANT SPACE IS CURRENTLY SPRINKLERED
ALLOWABLE BUILDING STORIES:	(TABLE 504.4)	2 STORIES
ACTUAL BUILDING STORIES:		1 STORY
BASE ALLOWABLE BUILDING AREA:	(TABLE 506.2)	9,000 SF
ACTUAL BUILDING AREA:		7,612 SF
TOTAL TENANT AREA:		1,510 SF
SPRINKLER SYSTEM PER SECTION 903 (NFPA 101):		PROVIDED (NFPA 13)
PORTABLE FIRE EXTINGUISHERS (NFPA 101):		PROVIDED (NFPA 10)
MANUAL FIRE ALARM SYSTEM PER (NFPA 101):		PROVIDED
OCCUPANCY LOAD FACTORS PER (TABLE 1004.1.2)		47 PEOPLE
FOR INDIVIDUAL ROOM CALCULATIONS AND EXITING OCCUPANT LOADS:		RE: SHEET A-005
NUMBER OF REQUIRED EXITS:	(SECTION 1006)	
REQUIRED NUMBER OF EXITS:		(1) ONE
EXITS PROVIDED:		(1) ONE
EXIT TRAVEL DISTANCE (TABLE 1017.2):		300 FT (WITH SPRINKLER)
DEAD END CORRIDOR (SECTION 1020.4):		NOT TO EXCEED 50 FT (WITH SPRINKLER)



REQUIRED PLUMBING FIXTURES

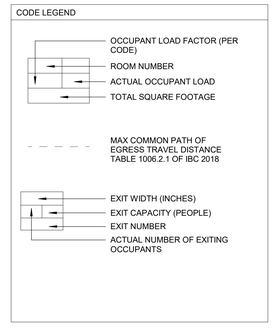
(2) WATER CLOSETS REQUIRED
(2) WATER CLOSETS PROVIDED (INDIVIDUAL RESTROOMS)

(2) LAVATORIES REQUIRED
(2) LAVATORIES PROVIDED

(1) SERVICE SINK REQUIRED
(1) SERVICE SINK PROVIDED

DRINKING FOUNTAIN NOT REQUIRED PER SEC. 7-406 OF LEE'S SUMMIT CODE OF ORDINANCES, WHERE RESTAURANTS PROVIDE DRINKING WATER IN A CONTAINER FREE OF CHARGE.

WATER CLOSETS, LAVATORIES, AND SERVICE SINK ARE EXISTING FIXTURES TO REMAIN IN PLACE.



KEYNOTES

YAEGER ARCHITECTURE

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CARL JOSEPH YAEGER
NUMBER A-008753
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2/16/23

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699 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

Summer Moon COFFEE

PROJECT NO:	22056
DATE:	2023-02-17
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REVISED DATE	DESCRIPTION

CODE PLAN

A-005

PLAN NORTH

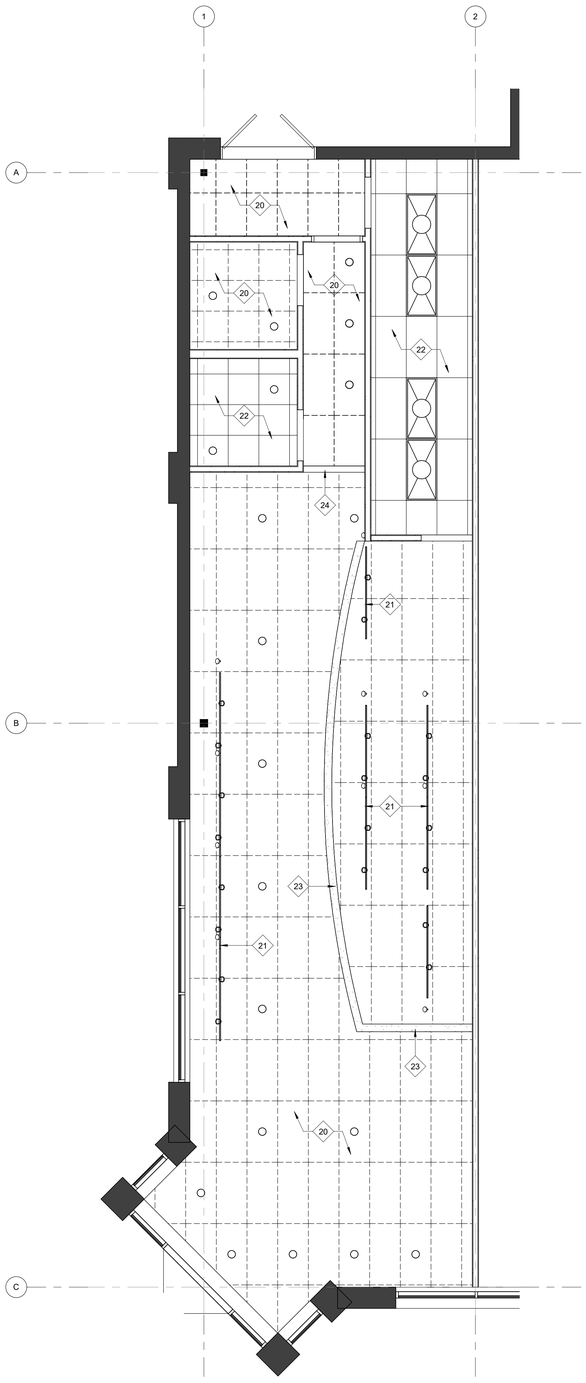
A5 CODE ANALYSIS
SCALE: N.T.S.

A2 TENANT CODE PLAN
SCALE: 1/4" = 1'-0"

C1 PLUMBING FIXTURE COUNTS
SCALE: N.T.S.

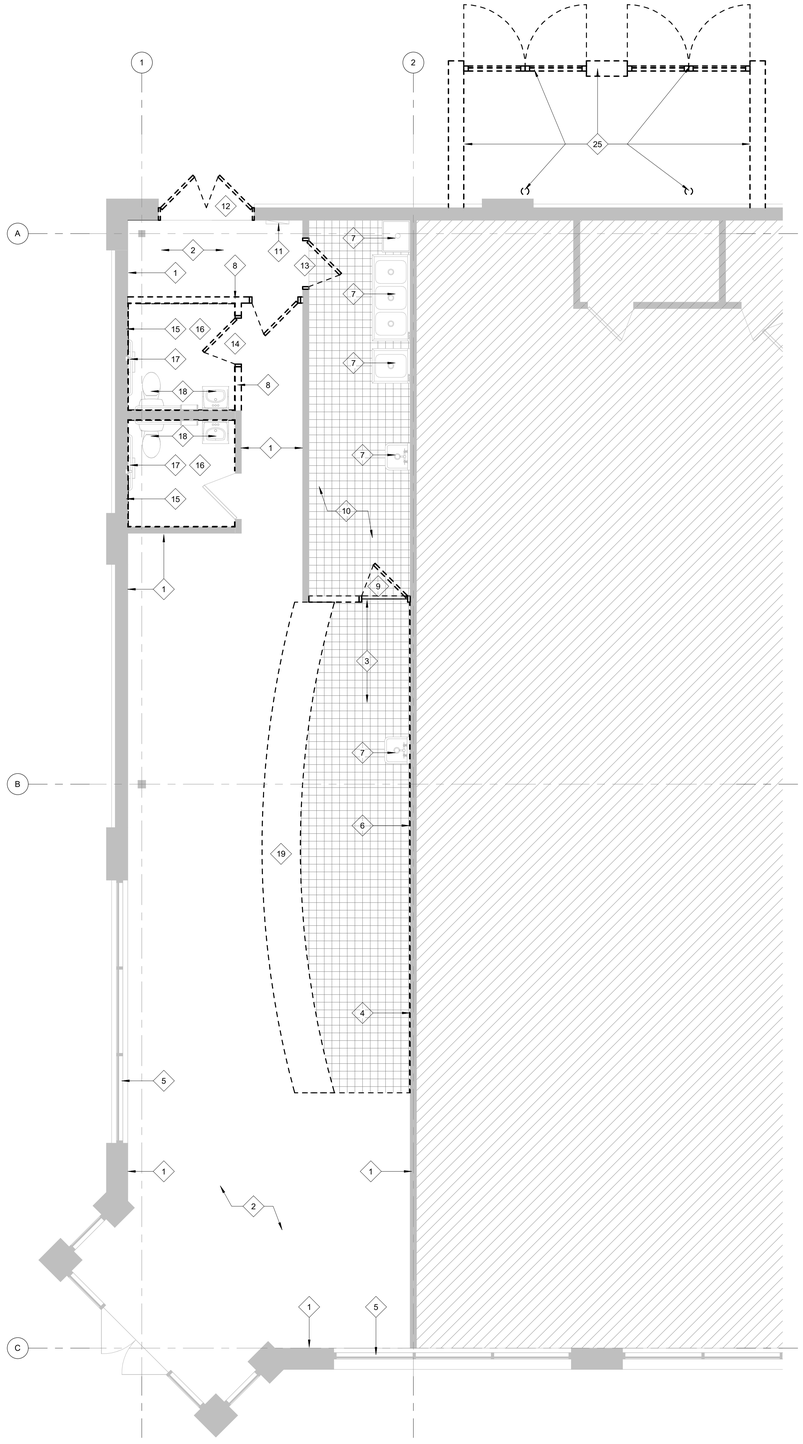
A1 CODE LEGEND
SCALE: N.T.S.

FILE PATH: Autodesk Docs://22056-Summer Moon Coffee/22056_SUMMER MOON_R23.rvt
PLOT DATE: 2/17/2023 11:23:23 AM
SHEET SIZE: ARCH E1 30" x 42"



A5 TENANT DEMOLITION REFLECTED CEILING PLAN

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



A1 TENANT DEMOLITION PLAN

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

DEMOLITION PLAN LEGEND

- WALL TO REMAIN
- WALL TO BE REMOVED
- DOOR AND FRAME TO BE DEMOLISHED
- EXISTING DOOR AND FRAME TO REMAIN

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND THE SUBSEQUENT DISPOSAL AND/OR RECYCLING OF ALL MATERIALS.
2. REFER TO SHEET A-001 FOR GENERAL NOTES AND INFORMATION APPLICABLE TO ALL PROJECT WORK.
3. GENERAL CONTRACTOR SHALL INVESTIGATE ALL FIELD CONDITIONS RELEVANT TO DEMOLITION. COORDINATE ANY DISCREPANCIES FOUND WITH ARCHITECT BEFORE COMMENCING WITH DEMOLITION WORK. REFER TO THE OTHER DISCIPLINES' DRAWINGS AS WELL AS OTHER ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEMOLITION AND FOR COORDINATION WITH NEW WORK.
4. DEMOLISH ALL INTERIOR CEILING FINISHED TO EXPOSE STRUCTURE.
5. REFER TO MECHANICAL DRAWINGS FOR EXTENT OF HVAC DEMOLITION. NOTE ALL MECHANICAL DUCTS AND EQUIPMENT TO BE REUSED.
6. REFER TO PLUMBING DRAWINGS FOR EXTENTS OF PLUMBING FIXTURE DEMOLITION. NOTE ALL PLUMBING FIXTURES TO REUSED, INCLUDING WATER CLOSETS, LAVATORIES, HAND SINKS, AND SERVICE SINKS.
7. REFER TO ELECTRICAL DRAWINGS FOR EXTENTS OF ELECTRICAL, LIGHTING, AND TELECOMMUNICATION SYSTEMS TO BE DEMOLISHED. NOTE ITEMS TO BE REUSED.
8. ALL DIMENSIONS OF EXISTING ELEMENTS ARE APPROXIMATE. FIELD VERIFY ALL DIMENSIONS AS REQUIRED.
9. PROTECT FROM DAMAGE OR SOILING, ALL EXISTING CONSTRUCTION INDICATED TO REMAIN, OR INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN. REPAIR OR REPLACE DAMAGED ITEMS TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
10. REMOVE ALL LOOSE / PEELING PAINT FROM EXISTING WALL SURFACES TO REMAIN AND PREPARE FOR APPLICATION OF NEW WALL FINISH.
11. DEMOLISH ALL INTERIOR FLOOR FINISHES DOWN TO STRUCTURE / CONCRETE. FIX AND PREPARE ALL SURFACES, AS REQUIRED, TO RECEIVE NEW FINISH.

KEYNOTES

DEMOLITION KEYNOTES (X)

1. REMOVE BLACK TILE WALL BASE FROM ALL WALLS. PATCH AND REPAIR GYPSUM BOARD AND PREP FOR NEW BASE FINISH.
2. PREP FLOOR TO RECEIVE NEW FLOORING AS SCHEDULED. PATCH ANY HOLES IN CONCRETE FROM CASEWORK OR PARTITION REMOVAL.
3. REMOVE EXISTING QUARRY TILE BEHIND SERVING COUNTER UP TO DOOR TO KITCHEN. QUARRY TILE INSIDE KITCHEN SHALL REMAIN IN PLACE. REMOVE ALL TILE SETTING BED MATERIAL FROM CONCRETE SUBSTRATE. PENDING CONDITION OF CONCRETE SUBSTRATE, A GRIND AND SEAL CONCRETE FINISH IS PREFERRED. PROVIDE ALLOWANCE FOR EPOXY FLOOR FINISH IF CONCRETE CONDITION IS TOO POOR FOR A GRIND AND SEAL FINAL FINISH.
4. REMOVE ALL WALL TILE. PATCH AND REPAIR GYPSUM BOARD TO RECEIVE NEW FINISH PER SCHEDULE.
5. SALVAGE WINDOW ROLLER SHADES FOR REUSE. TEMPORARILY REMOVE SHADES TO PAINT WALLS AND REINSTALL IN SAME LOCATION.
6. REMOVE ALL SHELVING, SIGNAGE, AND WOOD TRIM. PATCH AND REPAIR GYPSUM BOARD TO RECEIVE NEW FINISH PER SCHEDULE.
7. EXISTING PLUMBING FIXTURE SHALL REMAIN IN PLACE. PROTECT DURING CONSTRUCTION.
8. REMOVE EXISTING PARTITION. PATCH AND REPAIR ADJOINING PARTITIONS TO REMAIN.
9. RELOCATE EXISTING ELIASON DOOR AND FRAME. REFER TO NEW WORK PLANS.
10. EXISTING FINISHES INSIDE KITCHEN SHALL REMAIN IN PLACE. QUARRY TILE FLOORING, STAINLESS STEEL WALL PANELS, AND LAY-IN CEILING SHALL REMAIN. PROTECT DURING CONSTRUCTION.
11. EXISTING ELECTRICAL PANEL SHALL REMAIN IN PLACE.
12. DEMO EXISTING DOUBLE SWINGING DOORS AND HOLLOW METAL FRAME. REFER TO NEW CONSTRUCTION PLANS FOR NEW AUTOMATIC DRIVE-THRU WINDOW AND WALL INFILL SPECIFICATIONS.
13. REMOVE EXISTING DOOR AND ASSOCIATED HARDWARE. FRAME SHALL REMAIN IN PLACE. PATCH EXISTING HOLES FROM HARDWARE REMOVAL AND PAINT FRAME PNT.4.
14. RELOCATE EXISTING RESTROOM DOOR AND FRAME. REFER TO NEW WORK PLANS.
15. REMOVE WALL TILE WAINSCOT ON ALL WALLS WITHIN RESTROOM. PATCH AND REPAIR GYPSUM BOARD. PREP TO RECEIVE NEW FINISH PER SCHEDULE.
16. REMOVE EXISTING LVT FLOORING. PREP FLOOR TO RECEIVE NEW FINISH PER SCHEDULE.
17. SALVAGE ALL WASHROOM ACCESSORIES FOR REUSE. TEMPORARILY REMOVE ACCESSORIES FOR INSTALLATION OF NEW FINISHES. REINSTALL IN SAME LOCATION.
18. SALVAGE EXISTING WATER CLOSET AND LAVATORY. TEMPORARILY REMOVE PLUMBING FIXTURES FOR INSTALLATION OF NEW FINISHES. REINSTALL IN SAME LOCATION.
19. DEMOLISH EXISTING SERVICE COUNTER, DIE WALL, AND ANY EQUIPMENT NOT TO BE REUSED BY OWNER IN NEW CONSTRUCTION. PATCH AND REPAIR FLOORING AND ADJACENT WALLS TO RECEIVE NEW FINISHES PER SCHEDULE.
20. DEMOLISH EXISTING CEILING PANELS AND GRID, INCLUDING ALL LIGHT FIXTURES AND HVAC GRILLES. SALVAGE FOR REUSE PER OWNER'S DIRECTION. SALVAGE ALL SPEAKERS AND SECURITY CAMERAS FOR OWNER'S REUSE.
21. DEMOLISH ALL EXISTING TRACK LIGHTING.
22. CEILING IN THIS ROOM SHALL REMAIN IN PLACE, INCLUDING ALL LIGHT FIXTURES AND HVAC GRILLES. PROTECT DURING CONSTRUCTION.
23. DEMOLISH EXISTING GYPSUM BOARD SOFFIT IN ITS ENTIRETY.
24. GYPSUM BOARD HEADER SHALL REMAIN IN PLACE. REMOVE EXISTING EXIT SIGN FROM FACE. PATCH AND REPAIR ANY DAMAGE TO GYPSUM BOARD AND PREP FOR NEW FINISH PER SCHEDULE.
25. DEMOLISH EXISTING TRASH ENCLOSURE MASONRY WALLS, STEEL GATES, AND ASSOCIATED CONCRETE FILLED BOLLARDS. PATCH AND REPAIR AREA ATTACHING TO BUILDING. REFER TO EXTERIOR ELEVATION AND CIVIL SITE PLANS FOR ADDITIONAL INFORMATION FOR NEW CONSTRUCTION.

PLAN NORTH

YAEGER ARCHITECTURE

STATE OF MISSOURI
DARL JOSEPH YAEGER
NUMBER A-6055
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LEE'S SUMMIT, MO 64086

Summer Moon COFFEE

PROJECT NO:	22056
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DRAWN BY:	
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REVISED DATE	DESCRIPTION

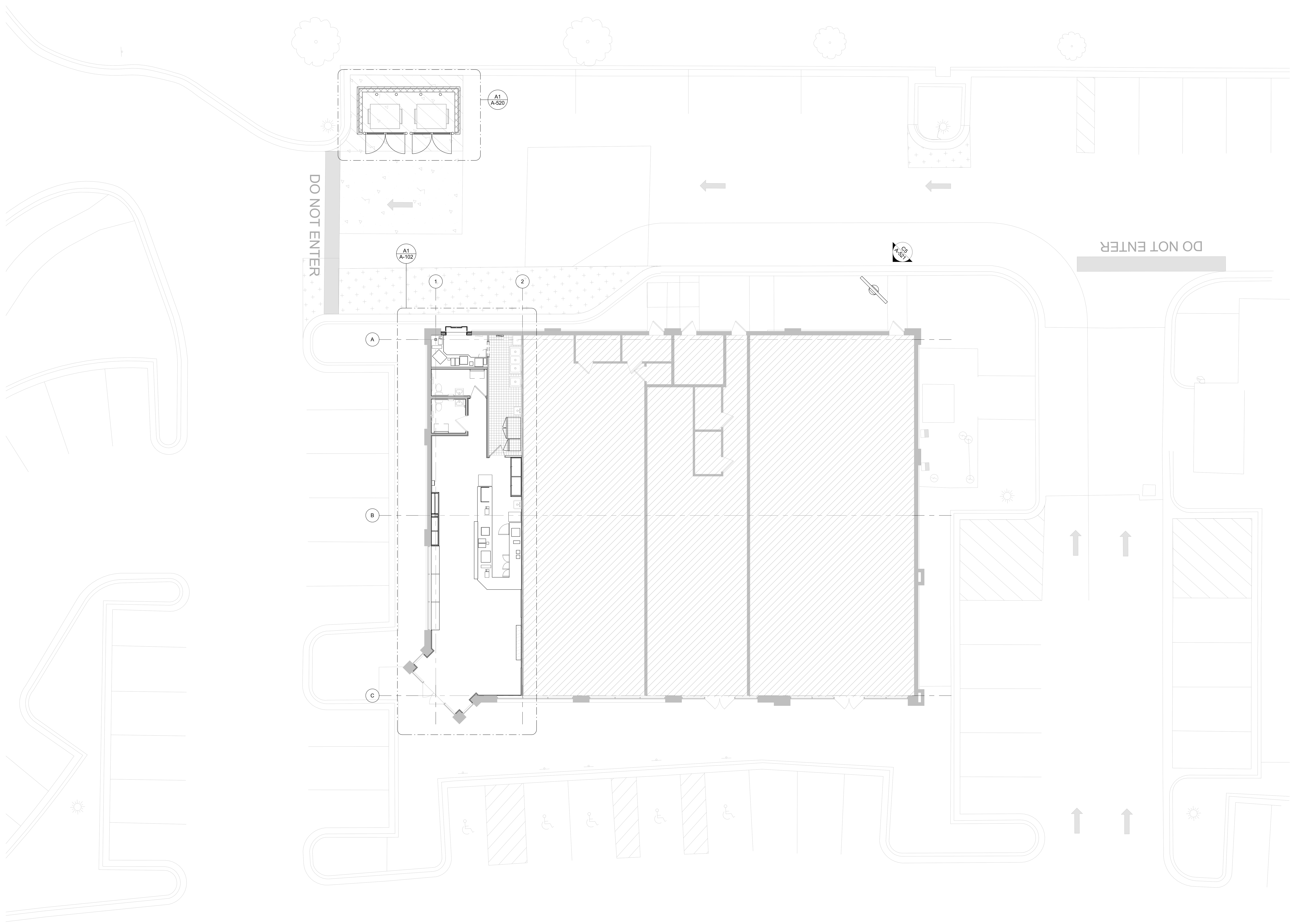
FIRST FLOOR DEMOLITION PLAN

AD100

FILE PATH: Autodesk Docs://22056 Summer Moon Coffee/22056_SUMMER MOON_R23.rvt
PLOT DATE: 2/17/2023 11:52:30 AM
SHEET SIZE: ARCH E1 30" x 42"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/15/2023

KEYNOTES



A1 OVERALL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

PLAN NORTH

YAEGER ARCHITECTURE

STATE OF MISSOURI
CARL JOSEPH YAEGER
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REGISTERED ARCHITECT
2/16/23

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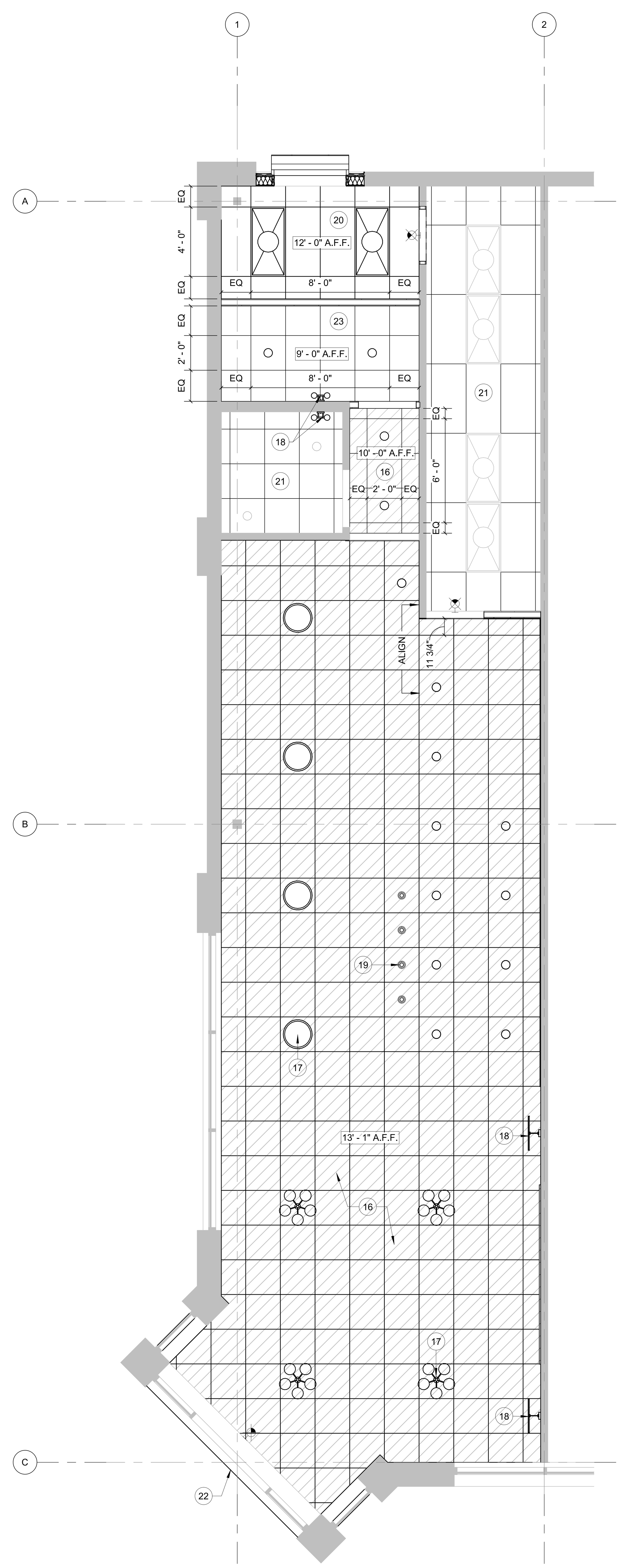
△	REVISED DATE	DESCRIPTION

OVERALL FLOOR PLAN

A-101

SHEET SIZE: ARCH E1 30" x 42"

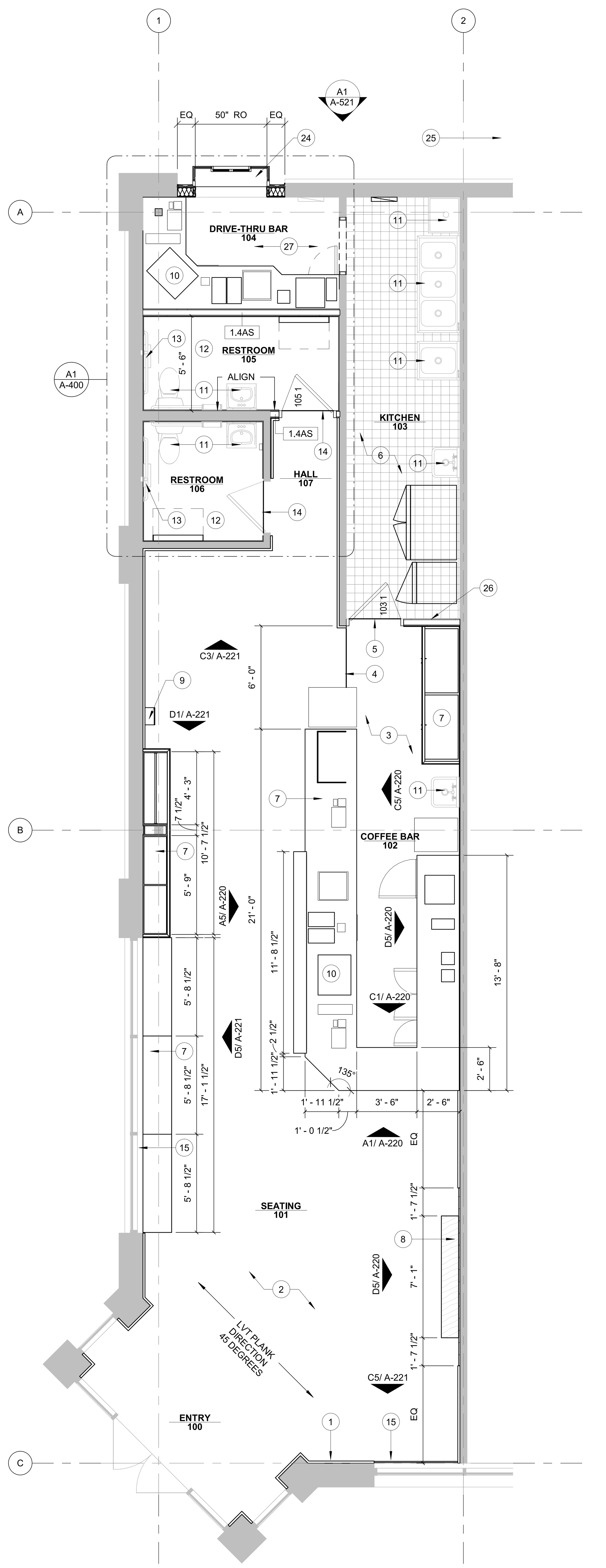


REFLECTED CEILING PLAN

- GYPSUM BOARD CEILING
- 2X4 SUSPENDED CEILING PANEL SYSTEM
- 2X2 SUSPENDED CEILING PANEL SYSTEM
- 2X2 SUSPENDED CEILING PANEL SYSTEM TIN CEILING PANEL FINISH
- RECTANGULAR LIGHT FIXTURE
- RECESSED CIRCULAR DOWNLIGHT
- PENDANT FIXTURE
- CHANDELIER FIXTURE
- X'-X" A.F.F. — CEILING HEIGHT
- WALL MOUNTED EXIT SIGN

A5 TENANT REFLECTED CEILING PLAN

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



GENERAL FLOOR PLAN NOTES

1. THE FIRST FLOOR FINISHED FLOOR ELEVATION IS 100'-0" UNO.
2. REFER TO A-001 FOR GENERAL PROJECT NOTES, MATERIAL LEGEND, AND ABBREVIATIONS.
3. REFER TO LIFE SAFETY DRAWINGS FOR FIRE RATED WALL LOCATIONS. ALL FIRE RATED, SOUND TRANSMISSION CLASS (STC) RATED, AND SMOKE-RESISTANT PARTITIONS ARE CONTINUOUS ACROSS ALL DOOR OPENING. PROTECT ALL PENETRATIONS.
4. REFER TO INTERIOR PARTITION TYPES SHEET FOR PARTITION TYPES, CONSTRUCTION, AND DESCRIPTION.
5. ALL DIMENSIONS OF EXISTING ELEMENTS ARE APPROXIMATE. FIELD VERIFY ALL DIMENSIONS.
6. REFER TO PLAN DETAILS FOR TYPICAL COLUMN DETAILS AT EXTERIOR AND INTERIOR WALLS.
7. INTERIOR PARTITION TAGS NOT SHOWN ON THIS PLAN CAN BE FOUND ON ENLARGED FLOOR PLANS.
8. ALL DIMENSIONS ARE FROM: COLUMN GRID LINE, FACE OF CMU WALL, OR FINISH FACE OF STUD WALL UNO. REFER TO LARGER SCALE DRAWINGS FOR DIMENSIONS OR ADDITIONAL INFORMATION NOT ILLUSTRATED ON 100 SERIES PLANS.
9. EACH INSTALLER MUST EXAMINE SUBSTRATE AND/OR CONDITIONS UNDER WHICH THE WORK WILL BE INSTALLED AND REPORT TO THE CONTRACTOR IN WRITING ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY EXECUTION OF THE INSTALLER'S WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED. INSTALLATION SHALL CONSTITUTE ACCEPTANCE OF THE SUBSTRATE AND/OR CONDITIONS.
10. PROVIDE BLOCKING IN PARTITIONS FOR ALL WALL-MOUNTED ARCHITECTURAL WOODWORK, FINISH CARPENTRY, EQUIPMENT, GRAB BARS, TOILET ACCESSORIES, TOILET FIXTURES AND PARTITIONS, WALL-MOUNTED HANDRAILS, ETC. ALL BLOCKING SHALL BE FIRE RETARDANT TREATED WOOD. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING BLOCKING WITH ALL WALL-MOUNTED ITEMS INCLUDING, BUT NOT LIMITED TO, THOSE LISTED ABOVE. AT CONTRACTOR'S OPTION, UNO, METAL SUPPORT MAY BE PROVIDED IN LIEU OF WOOD.
11. INSTALL HINGE-SIDE OF DOORS 6 INCHES FROM FACE OF ADJACENT PERPENDICULAR FINISH WALL UNO.
12. ALL FINISHES SHALL AS NOTED ON THE DRAWINGS OR SELECTED BY ARCHITECT.

PARTITION SCHEDULE

TYPE	DESCRIPTION	WIDTH	FIRE RATING	STC	TYPE COMMENTS
1.4AS	3 5/8" MTL STUD WITH 5/8" GYPSUM BOARD ON EACH SIDE BOTH TO METAL DECK, WITH SOUND BATTS	4 7/8"	NA		

DOOR SCHEDULE

To Room: Number	Mark	HARDWARE	COMMENTS
103	1	REUSE EXISTING HARDWARE	RELOCATED EXISTING DOOR
105	1	REUSE EXISTING HARDWARE	RELOCATED EXISTING DOOR

NOTE: PAINT RESTROOM DOORS AND FRAMES PNT.4

A1 TENANT FLOOR PLAN

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

KEYNOTES

NEW WORK KEYNOTES (X)

1. PROVIDE PAINTED WOOD WAINSCOT IN CUSTOMER AREA ON ALL WALLS, UNLESS NOTED OTHERWISE. REFER TO ELEVATIONS AND TYPICAL SECTION FOR TRIM PROFILES. WD.2/PNT.2
2. INSTALL GLUE-DOWN LVT FLOORING PER SCHEDULE. INSTALL AT 45 DEGREE ANGLE RUNNING NORTHEAST TO SOUTHWEST. LVP.1
3. GRIND AND SEAL CONCRETE FLOORING BEHIND BAR, PENDING CONDITION OF CONCRETE ONCE QUARRY TILE IS REMOVED. SC.1
4. PROVIDE METAL EDGE STRIP BETWEEN LVT FLOORING AND SEALED CONCRETE FLOORING. SCHLUTER VINPRO-U IN BRUSHED CHROME ANODIZED FINISH.
5. PROVIDE SCHLUTER METAL RENO-RAMP FLOOR TRANSITION AT QUARRY TILE TO SEALED CONCRETE TRANSITION.
6. ALL FINISHES IN KITCHEN SHALL REMAIN IN PLACE. PROTECT DURING CONSTRUCTION. THOROUGHLY CLEAN KITCHEN, INCLUDING GROUT ON FLOOR.
7. BUILT-IN CUSTOM CASEWORK, PART OF GC SCOPE. REFER TO ELEVATIONS AND DETAILS. ALL CUSTOM CASEWORK SHALL BE AWI CUSTOM GRADE OR HIGHER.
8. BUILT-IN CUSTOM MANTEL WITH ELECTRIC FIREPLACE. FIREPLACE SHALL BE TOUCHSTONE MODEL NO. 80014.
9. SURFACE MOUNTED FIRE EXTINGUISHER WITH CABINET. WHITE FINISH.
10. ALL FOOD SERVICE EQUIPMENT SHALL BE PROVIDED BY THE OWNER. CUSTOM CASEWORK SHALL BE COORDINATED WITH CUTSHEETS PROVIDED BY THE OWNER AND/OR ARCHITECT.
11. EXISTING PLUMBING FIXTURE SHALL REMAIN IN PLACE. FIXTURE WILL NEED TO BE TEMPORARILY MOVED TO INSTALL NEW FINISHES, BUT SHALL BE REINSTALLED IN THE SAME LOCATION.
12. INSTALL NEW TILE FLOORING PER FINISH SCHEDULE. TL.5
13. REINSTALL SALVAGED WASHROOM ACCESSORIES AFTER NEW FINISHES HAVE BEEN INSTALLED PER FINISH SCHEDULE.
14. PROVIDE METAL SCHLUTER SHIENE TRANSITION STRIP BETWEEN TILE FLOORING AND LVT.
15. REINSTALL SALVAGED WINDOW ROLLER SHADES ON ALL WINDOWS, PENDING OWNER'S APPROVAL.
16. INSTALL NEW GRID AND TIN CEILING PANELS PER FINISH SCHEDULE. ALL RECESSED DOWNLIGHTS SHALL BE CONTRACTOR FURNISHED AND INSTALLED. CT.1
17. REFER TO ENGINEER'S LIGHTING PLAN FOR LIGHT FIXTURE INFORMATION. DECORATIVE PENDANT LIGHTS SHALL BE OWNER FURNISHED/CONTRACTOR INSTALLED. PENDANTS SHALL BE CENTERED IN CEILING TILE, TYPICAL.
18. REFER TO ENGINEER'S LIGHTING PLAN FOR LIGHT FIXTURE INFORMATION. DECORATIVE WALL SCONCES SHALL BE OWNER FURNISHED/CONTRACTOR INSTALLED. REFER TO ELEVATIONS FOR MOUNTING LOCATIONS.
19. REFER TO ENGINEER'S LIGHTING PLAN FOR LIGHT FIXTURE INFORMATION. DECORATIVE PENDANT LIGHTS SHALL BE OWNER FURNISHED/CONTRACTOR INSTALLED. PENDANTS SHALL BE CENTERED IN CEILING TILE, TYPICAL. INTENTION FOR THESE FOUR PENDANTS IS TO BE CENTERED OVER THE HIGH SERVICE COUNTER. COORDINATE GRID LAYOUT WITH SERVICE COUNTER.
20. NEW CEILING GRID WITH VINYL FACED PANELS PER FINISH SCHEDULE. CT.2
21. EXISTING CEILING SHALL REMAIN IN PLACE. PROTECT DURING CONSTRUCTION.
22. ILLUMINATED EXTERIOR SIGNAGE SHALL BE OWNER PROVIDED/OWNER INSTALLED. RE: ELECT. DWGS. FOR POWER REQUIREMENTS.
23. NEW CEILING GRID WITH MINERAL FIBER PANELS PER FINISH SCHEDULE. CT.3
24. NEW AUTOMATIC DRIVE-THRU WINDOW WITHIN EXISTING OPENING. REFER TO ELEVATIONS AND DETAILS.
25. INSTALL OWNER PROVIDED MENU BOARD FOR DRIVE-THRU AS INDICATED ON OVERALL FLOOR PLAN AND CIVIL SITE PLAN. CONTRACTOR SHALL PROVIDE CONCRETE FOOTING AND ELECTRICAL INFEED PER ELECT. DWGS. CONFIRM ALL REQUIREMENTS WITH MENU BOARD MANUFACTURER.
26. INFILL EXISTING DOOR OPENING. FINISH PUBLIC SIDE PER FINISHES NOTED ON ELEVATIONS. FINISH KITCHEN SIDE WITH STAINLESS STEEL WALL PANELING TO MATCH EXISTING WALL FINISHES. REUSE EXISTING STAINLESS STEEL IF FEASIBLE.
27. EXISTING CONCRETE FLOOR TO REMAIN. PATCH AND REPAIR ANY HOLES IN CONCRETE FROM CASEWORK AND PARTITION REMOVAL. CLEAN AND RESEAL FLOOR.

PLAN NORTH

YAEGER ARCHITECTURE

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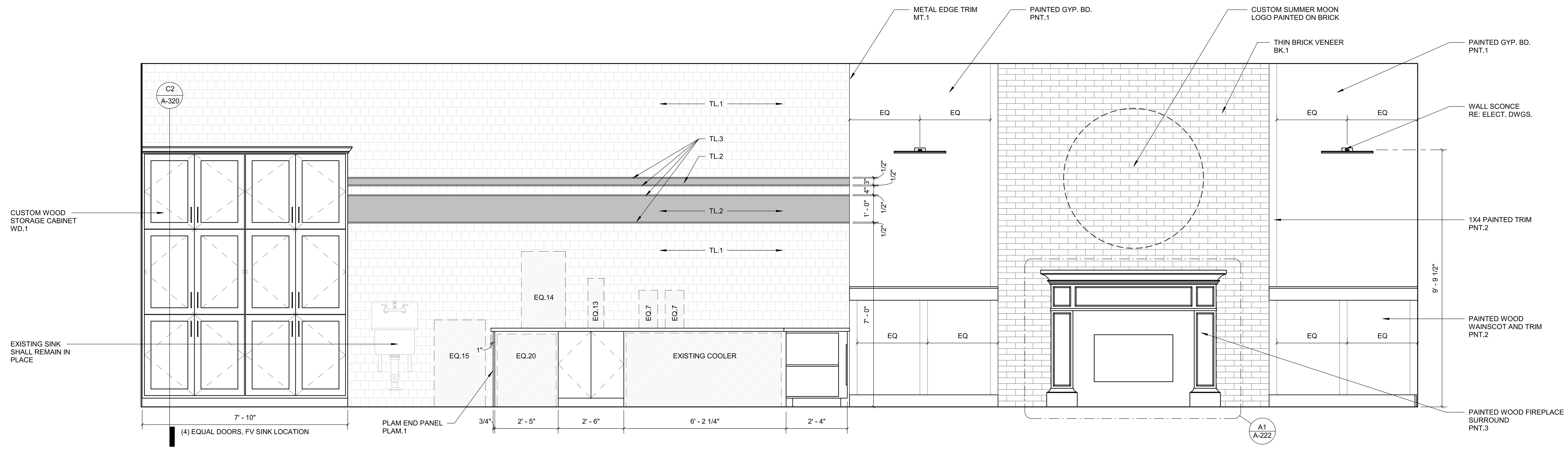
Summer Moon COFFEE

PROJECT NO:	22056
DATE:	2023-02-17
DRAWN BY:	
CHECKED BY:	
CHECKED BY:	

△	REVISED DATE	DESCRIPTION

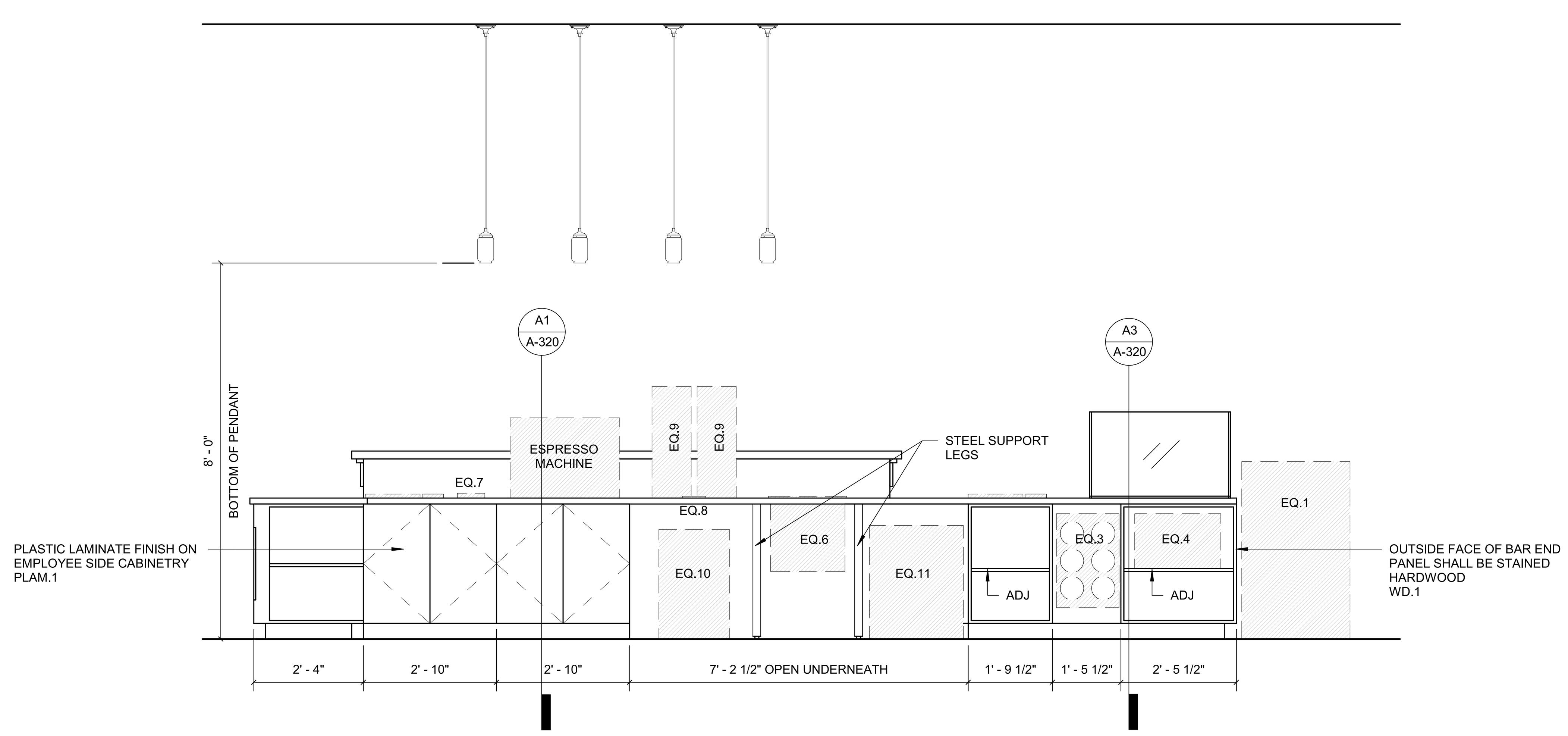
TENANT PLANS

A-102



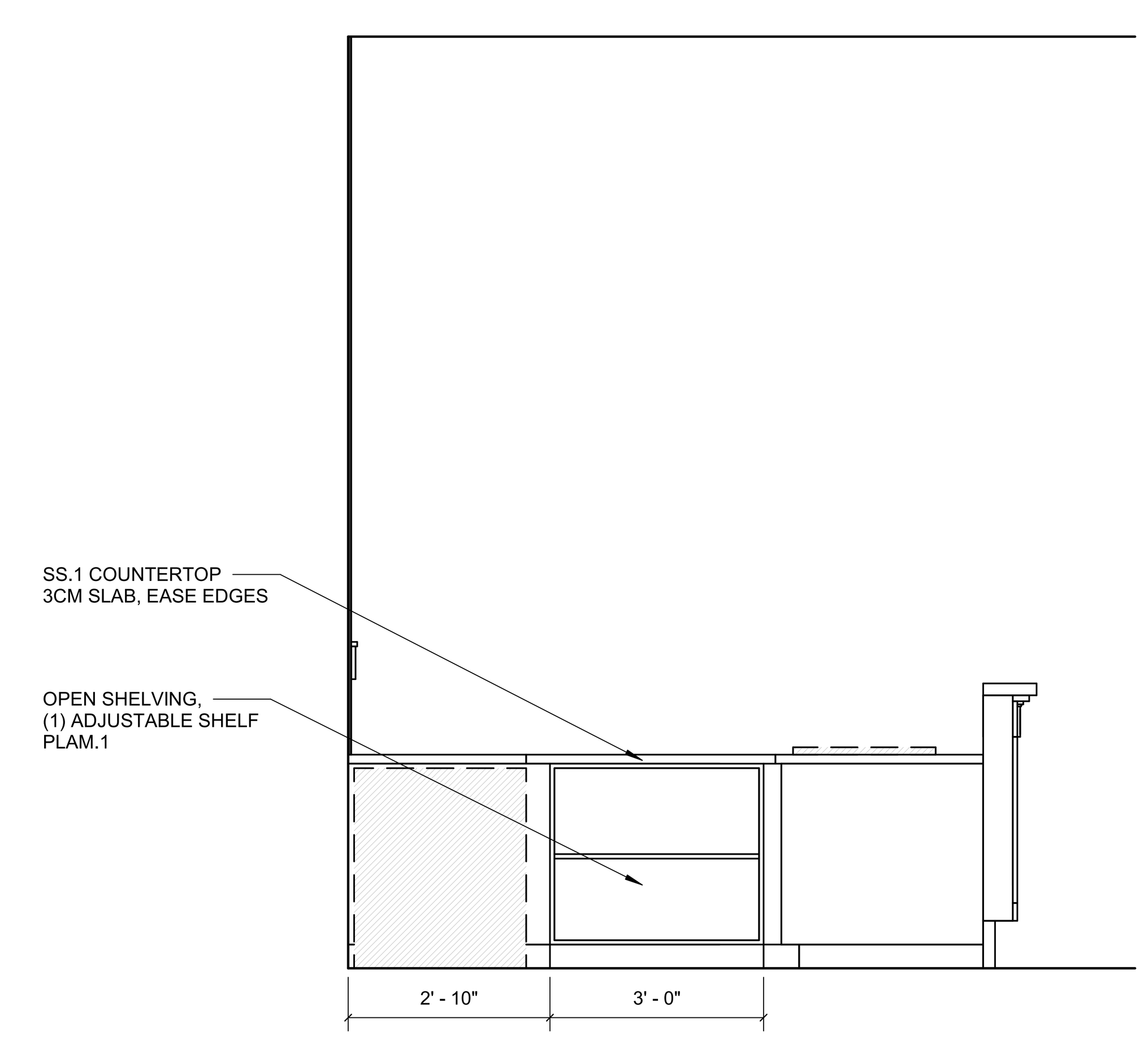
D5 DINING SOUTH

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



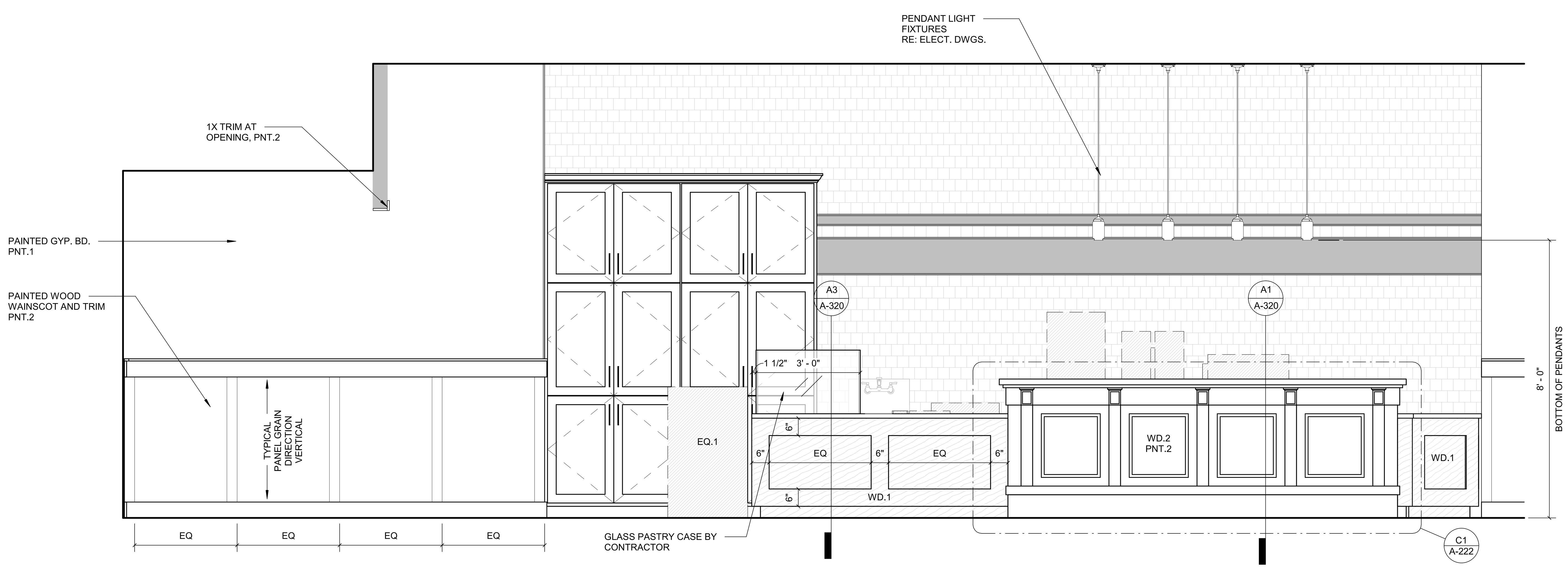
C5 BAR - FRONT, INSIDE

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



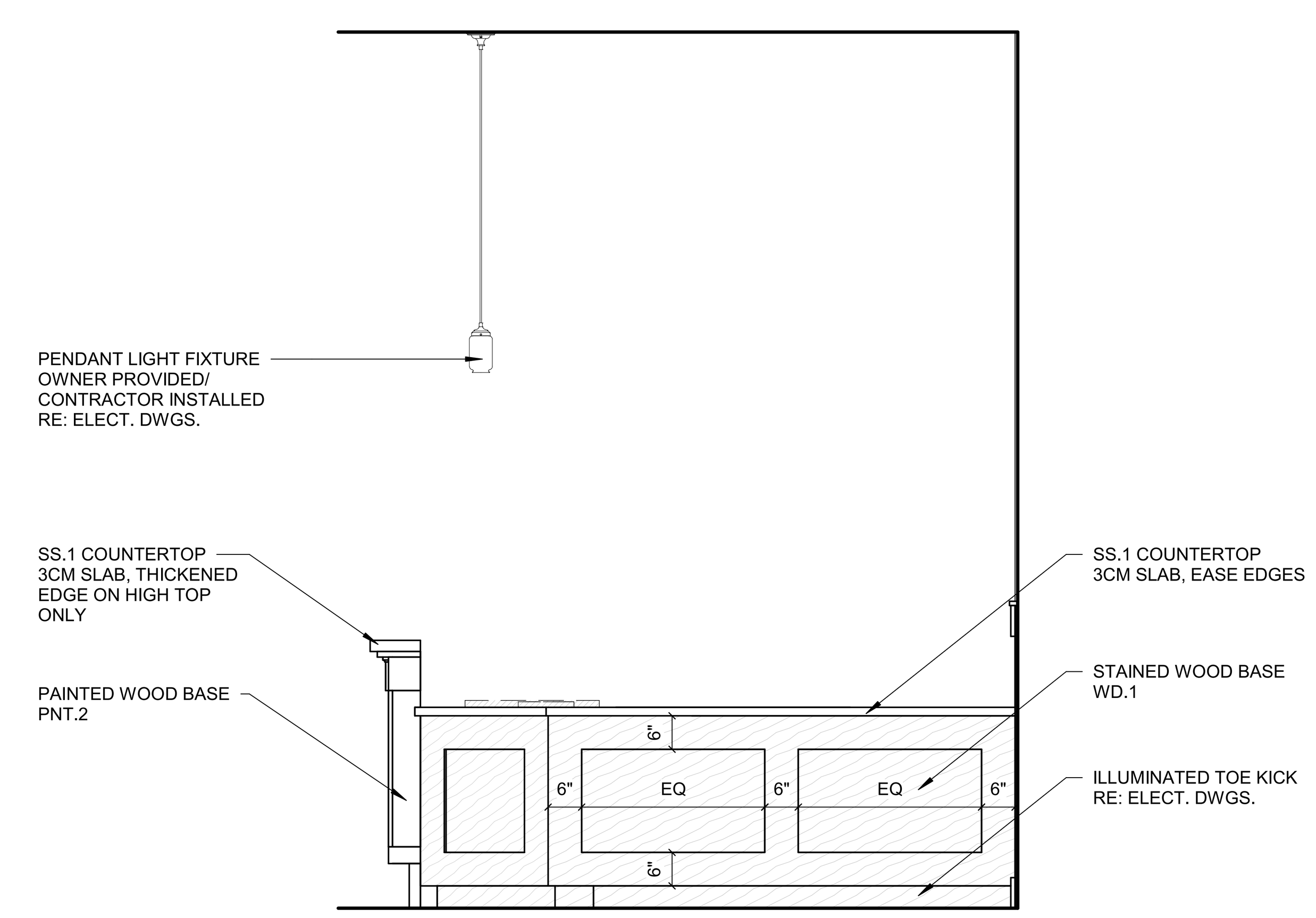
C1 BAR - SHORT END, INSIDE

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



A5 BAR - FRONT, OUTSIDE

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



A1 BAR - SHORT END, OUTSIDE

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

YAEGER ARCHITECTURE

STATE OF MISSOURI
CARL JOSEPH YAEGER
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699 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

Summer Moon COFFEE

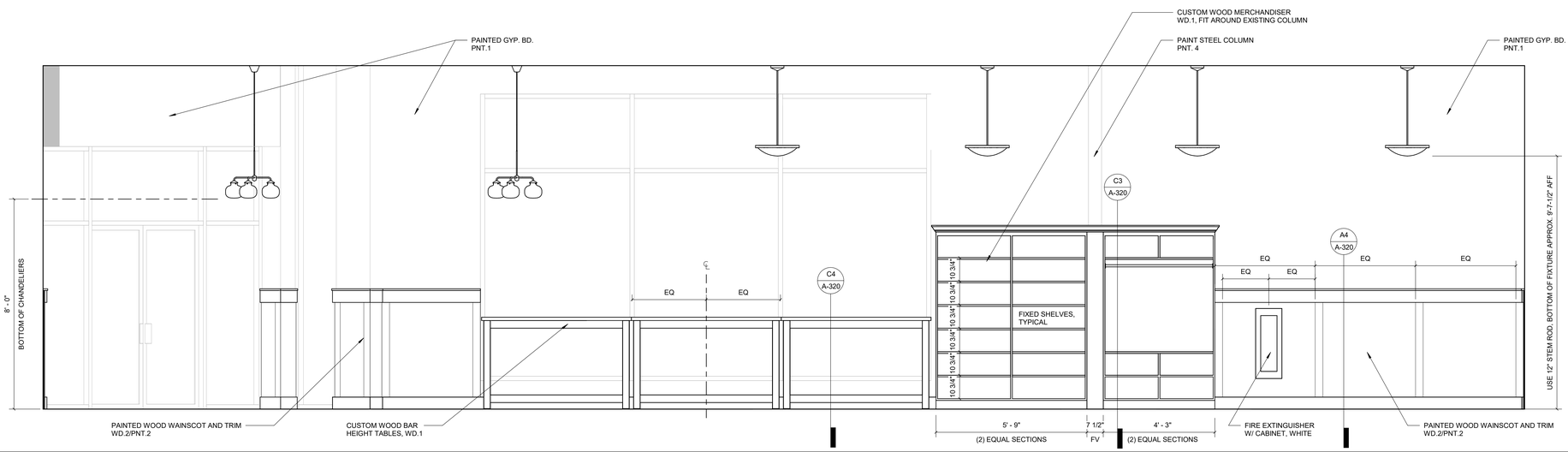
PROJECT NO: 22056
DATE: 2023-02-17
DRAWN BY:
CHECKED BY:
CHECKED BY:

REVISED DATE	DESCRIPTION

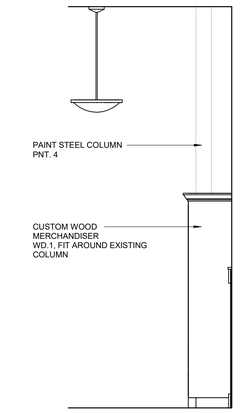
INTERIOR ELEVATIONS

A-220

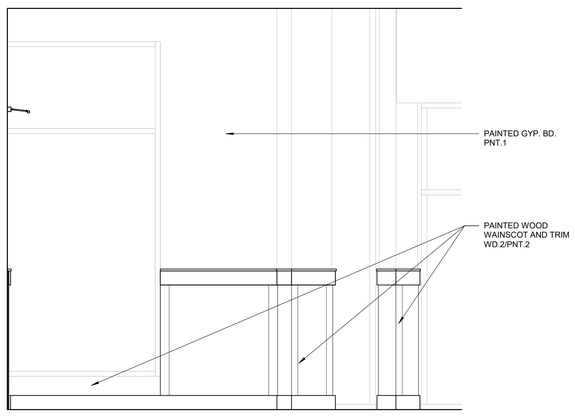
SHEET SIZE: ARCH E1 30" x 42"



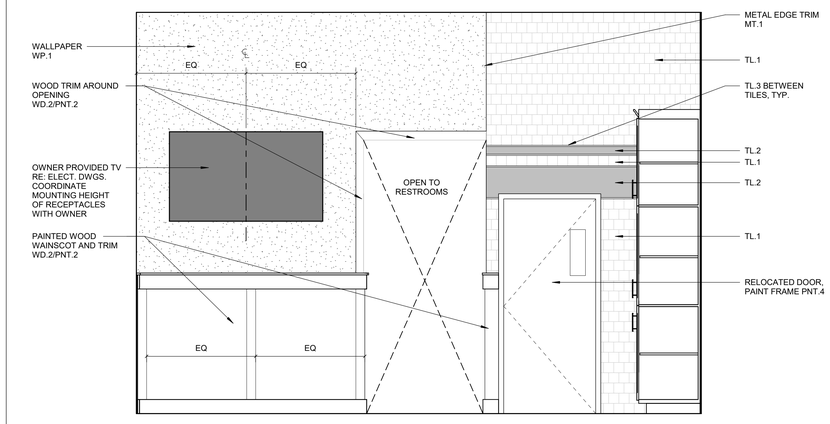
D5 DINING NORTH
SCALE: 1/2" = 1'-0"



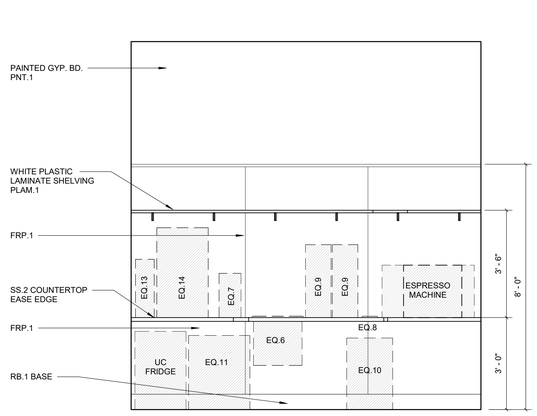
D1 MERCHANDISER END
SCALE: 1/2" = 1'-0"



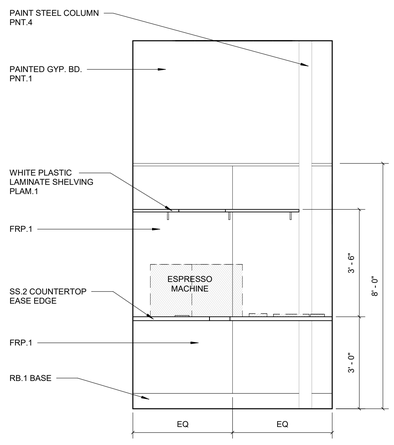
C5 DINING WEST
SCALE: 1/2" = 1'-0"



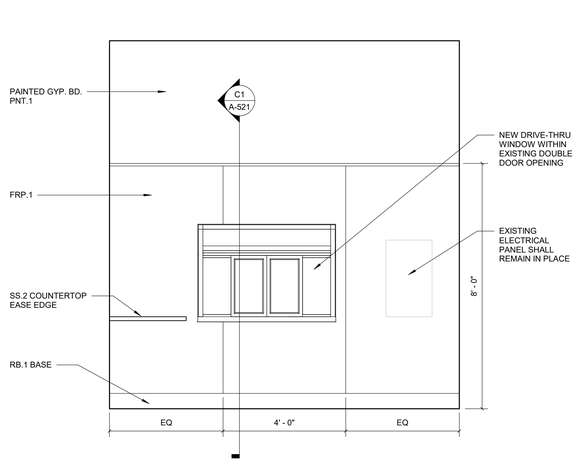
C3 DINING EAST
SCALE: 1/2" = 1'-0"



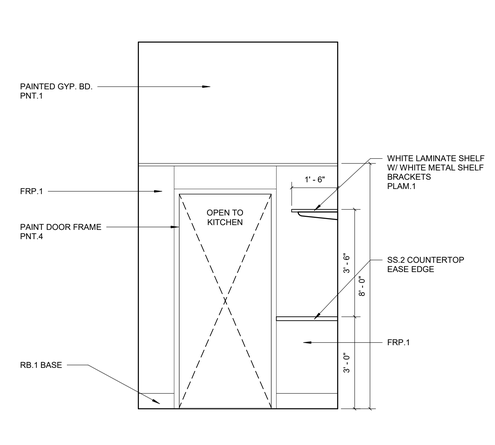
C1 DRIVE-THRU WEST
SCALE: 1/2" = 1'-0"



A5 DRIVE-THRU NORTH
SCALE: 1/2" = 1'-0"



A3 DRIVE-THRU EAST
SCALE: 1/2" = 1'-0"



A1 DRIVE-THRU SOUTH
SCALE: 1/2" = 1'-0"

YAEGER ARCHITECTURE

STATE OF MISSOURI
DARL JOSEPH YAEGER
NUMBER A-6086
REGISTERED ARCHITECT
2/16/23

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Summer Moon COFFEE

PROJECT NO:	22056
DATE:	2023-02-17
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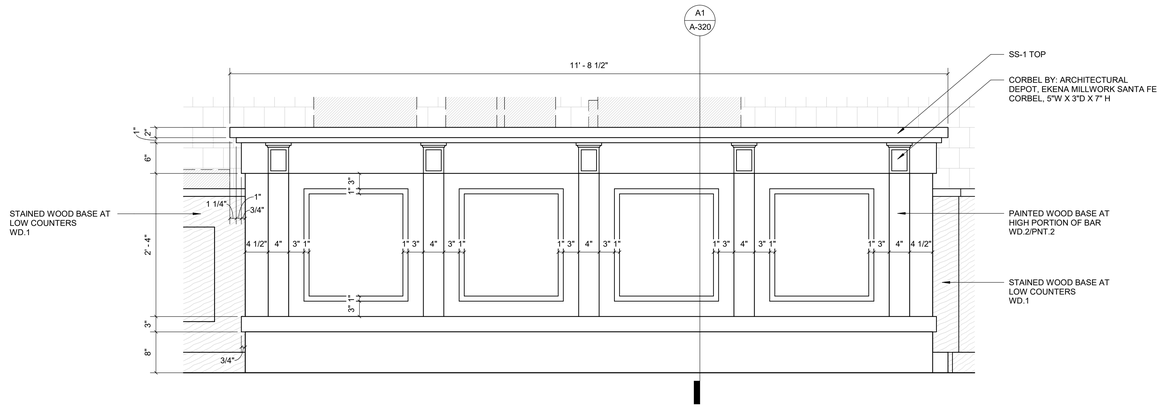
REVISED DATE	DESCRIPTION

INTERIOR ELEVATIONS

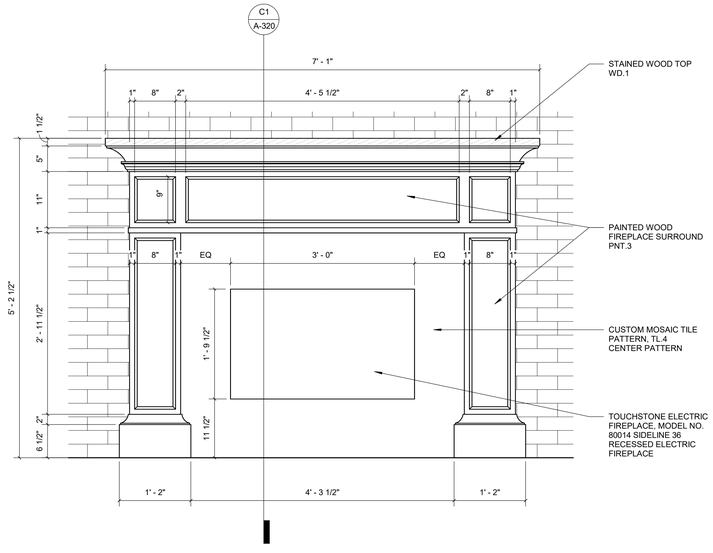
A-221

FILE PATH: Autodesk Docs://22056 Summer Moon Coffee/22056_SUMMER MOON_R23.rvt
PLOT DATE: 2/17/2023 1:12:27 AM
SHEET SIZE: ARCH E1 30" x 42"



C1 COFFEE BAR FRONT

SCALE: 1" = 1'-0"



A1 ENLARGED FIREPLACE

SCALE: 1" = 1'-0"

YAEGER ARCHITECTURE

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DARL JOSEPH YAEGER
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REGISTERED ARCHITECT
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Summer Moon COFFEE

PROJECT NO:	22056
DATE:	2023-02-17
DRAWN BY:	
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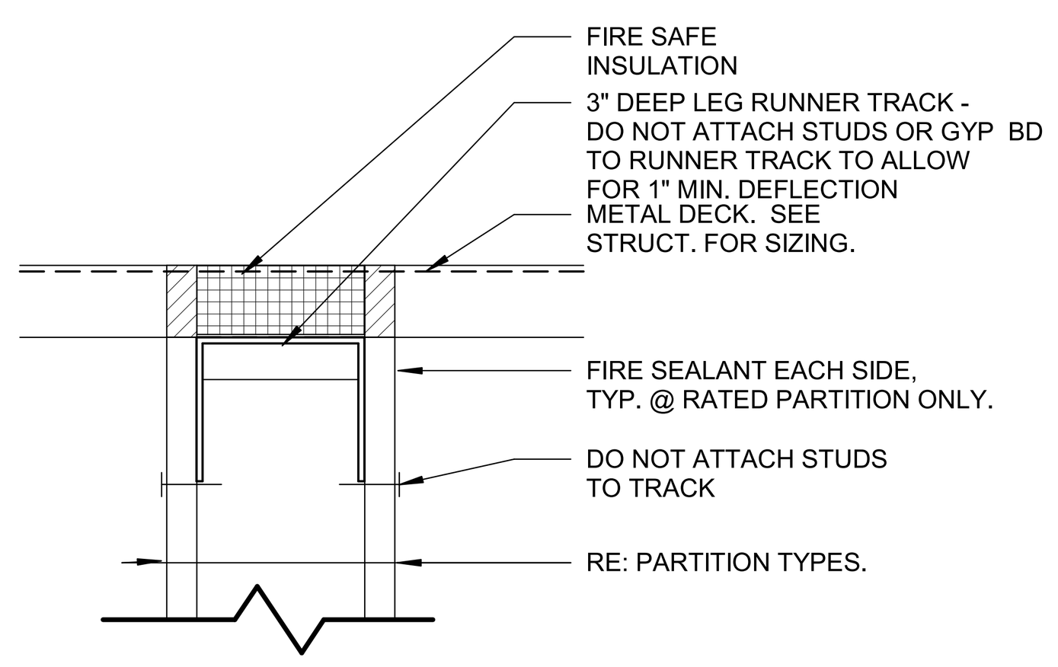
CHECKED BY:	

REVISED DATE	DESCRIPTION

INTERIOR ELEVATIONS

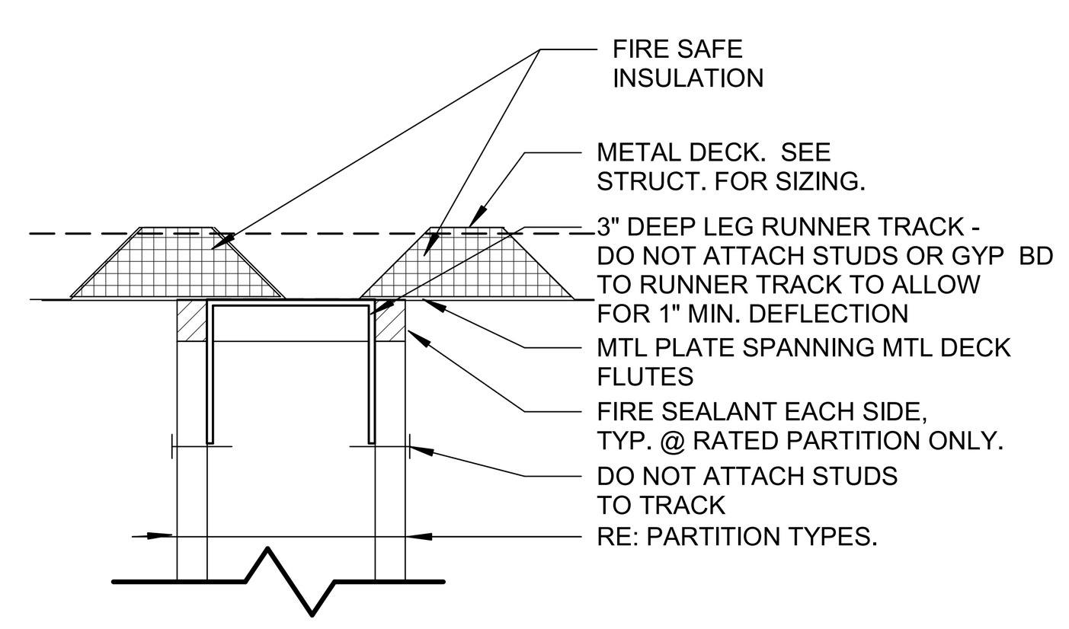
A-222

FILE PATH: Autodesk Docs://22056-Summer Moon Coffee/22056_SUMMER MOON_R23.rvt
PLOT DATE: 2/17/2023 11:53:27 AM
SHEET SIZE: ARCH E1 30" x 42"



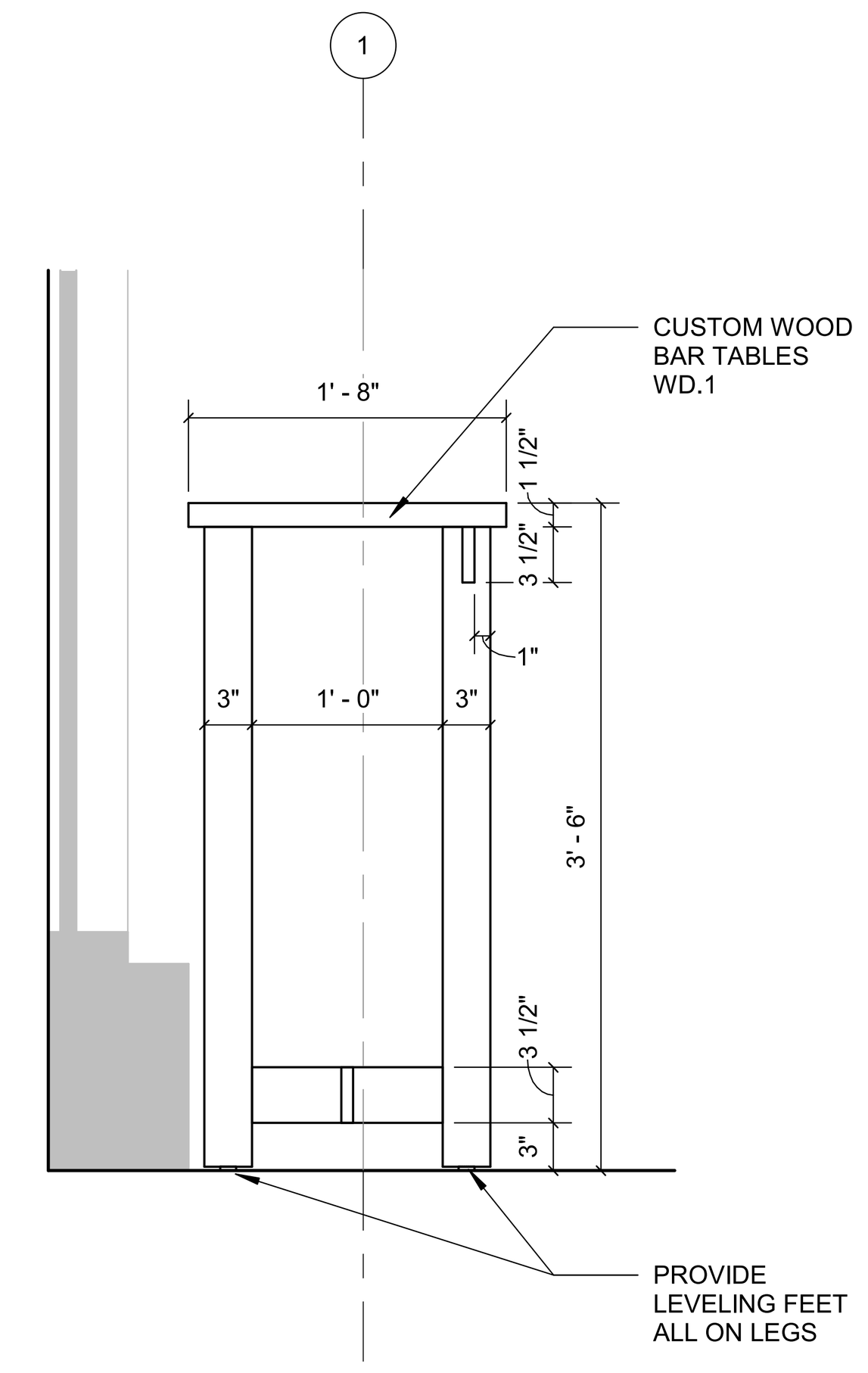
MTL.STUD / DECK ATTACHMENT PERP

SCALE: 3" = 1'-0"



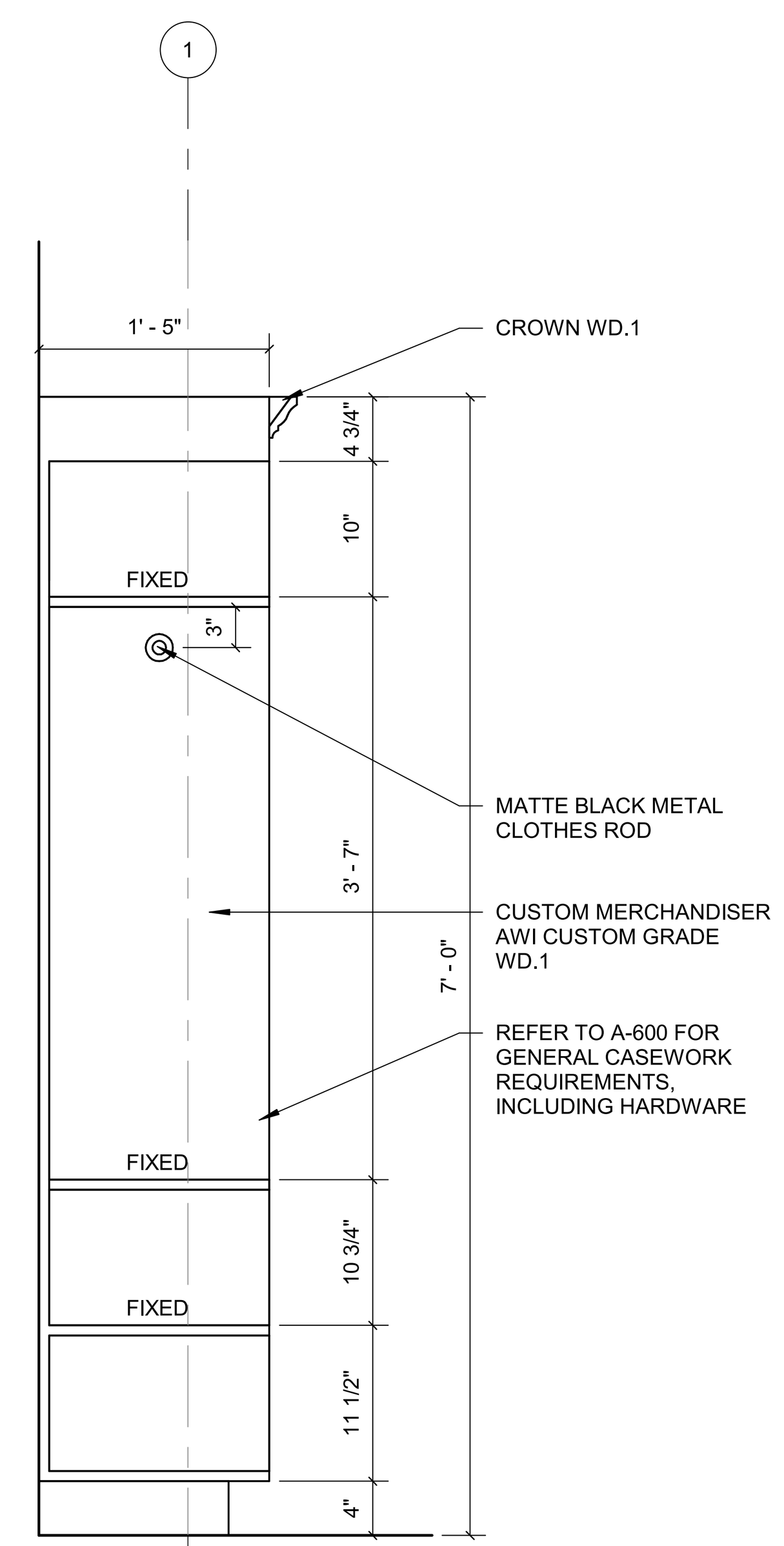
MTL. STUD / DECK ATTACH. PARALLEL

SCALE: 3" = 1'-0"



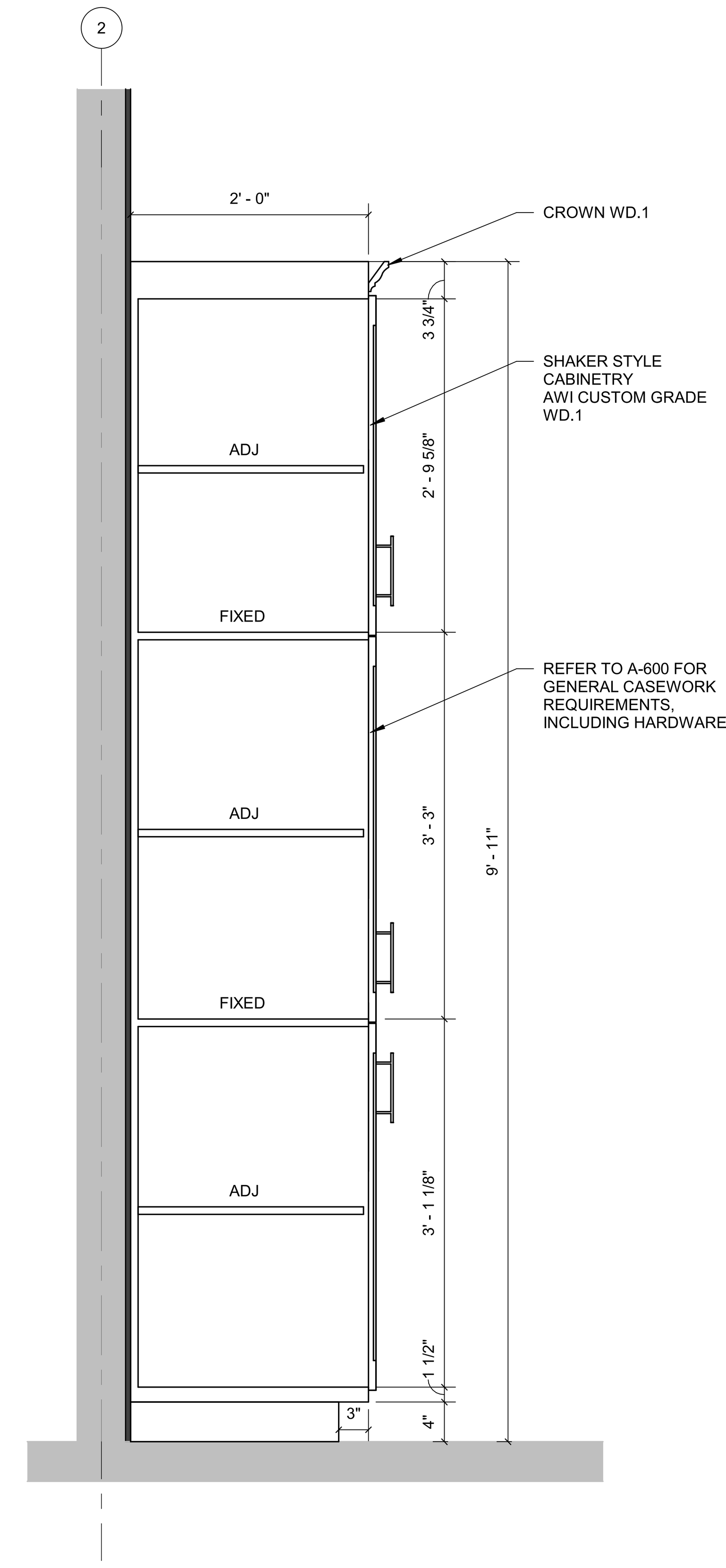
C4 BAR TABLE

SCALE: 1" = 1'-0"



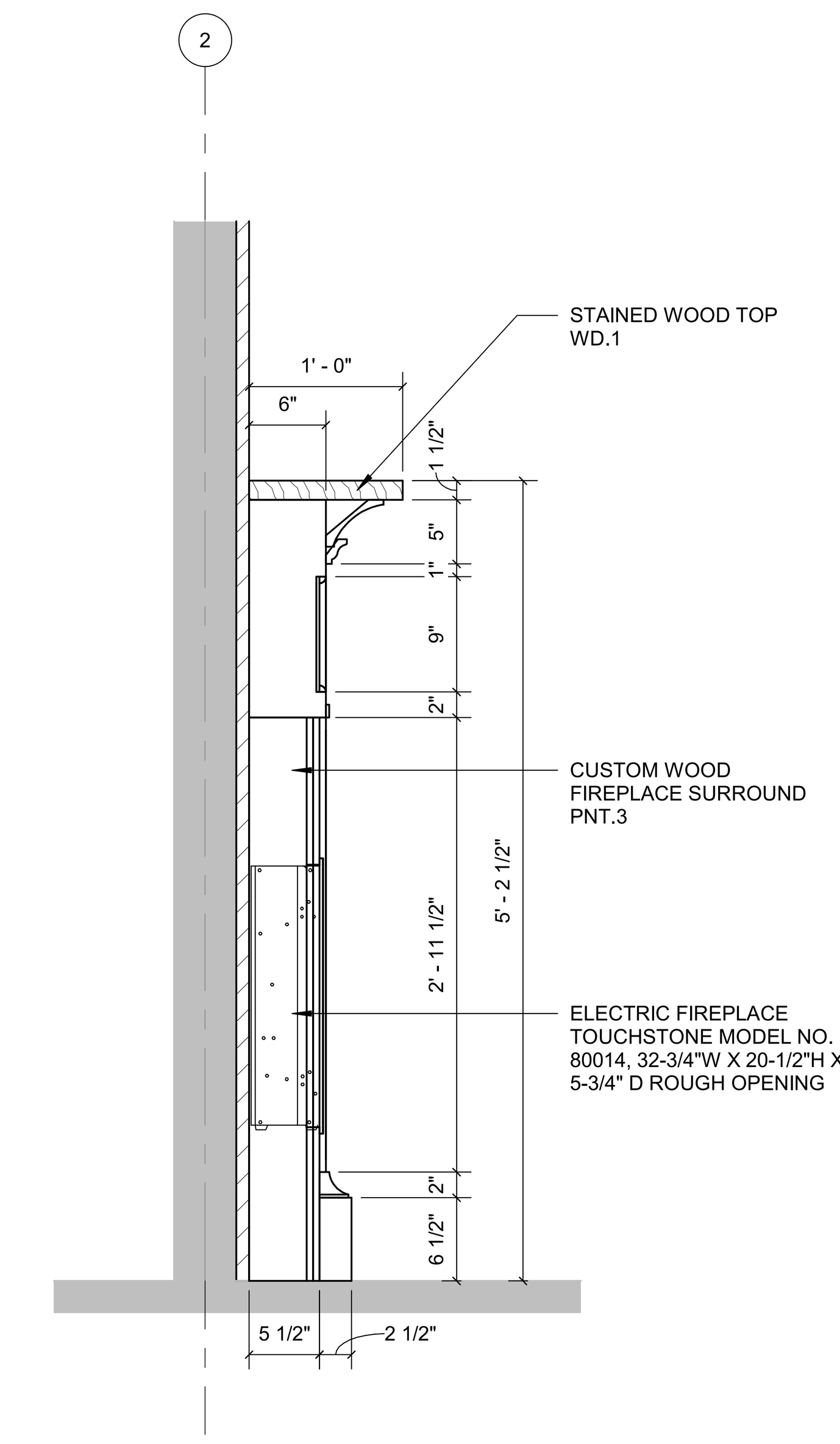
C3 MERCHANDISER

SCALE: 1" = 1'-0"



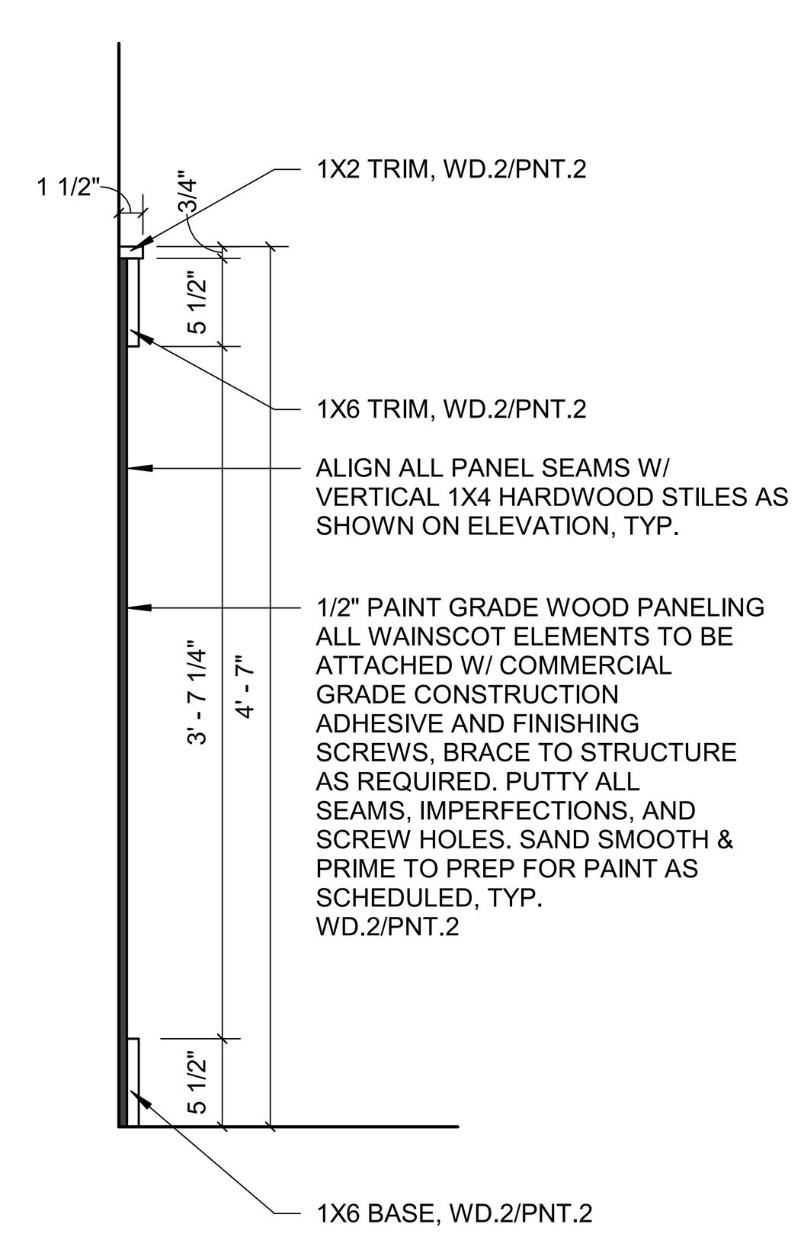
C2 STORAGE CABINET

SCALE: 1" = 1'-0"



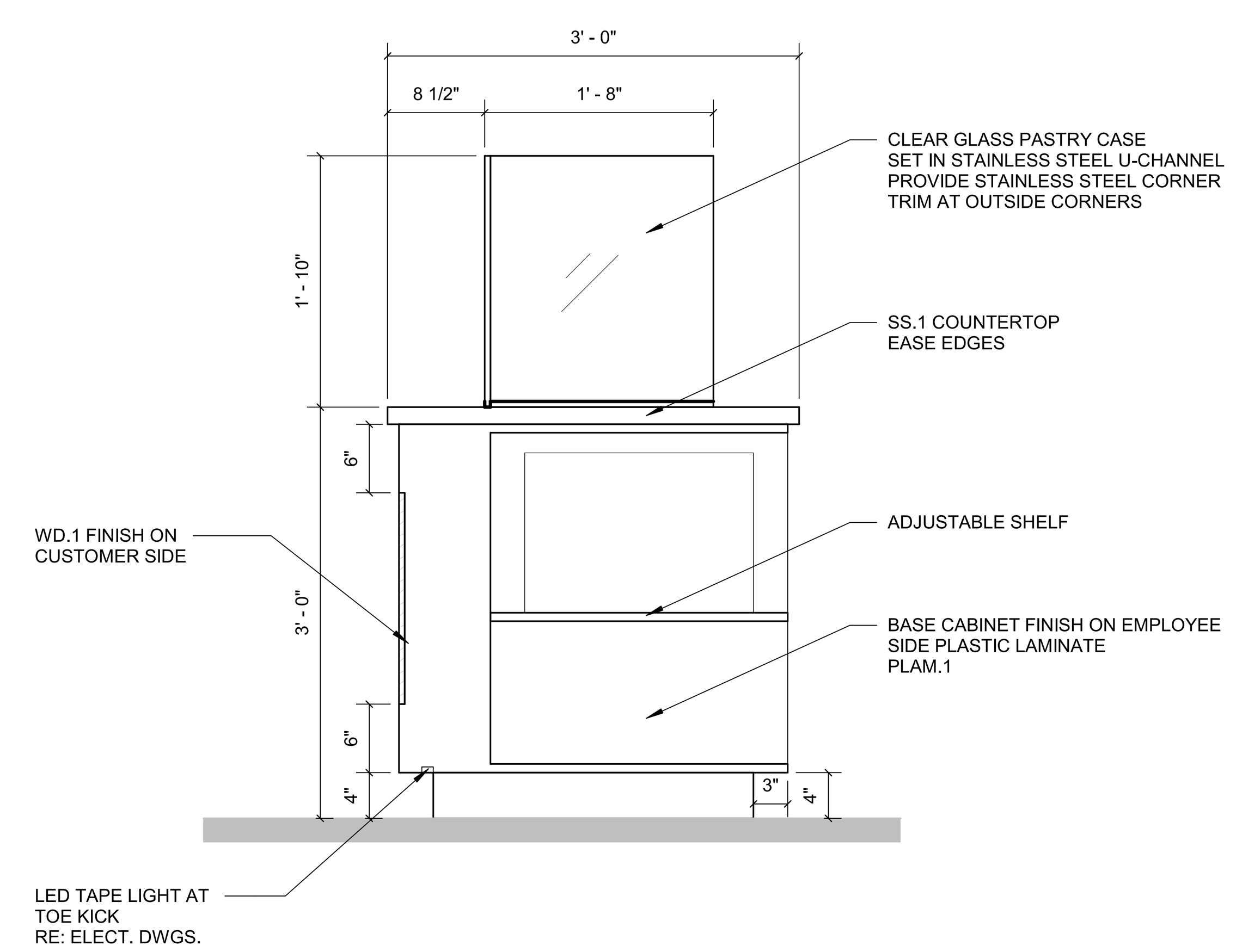
C1 FIREPLACE

SCALE: 1" = 1'-0"



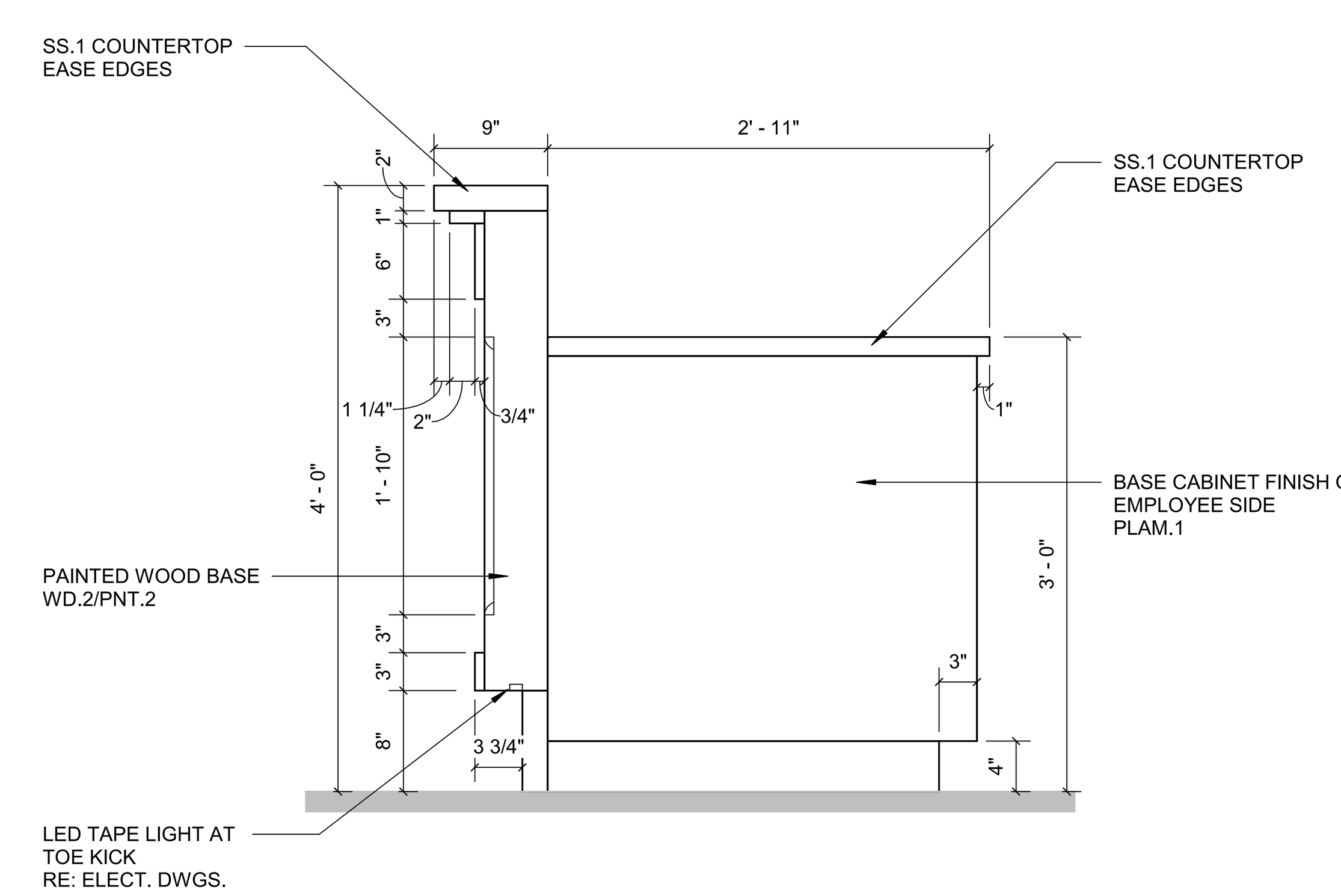
A4 TYPICAL WALL PANELING

SCALE: 1" = 1'-0"



A3 COFFEE BAR LOW

SCALE: 1" = 1'-0"



A1 COFFEE BAR HIGH

SCALE: 1" = 1'-0"

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LEE'S SUMMIT, MO 64086

Summer Moon COFFEE

PROJECT NO:	22056
DATE:	2023-02-17
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CHECKED BY:	

	REVISED DATE	DESCRIPTION

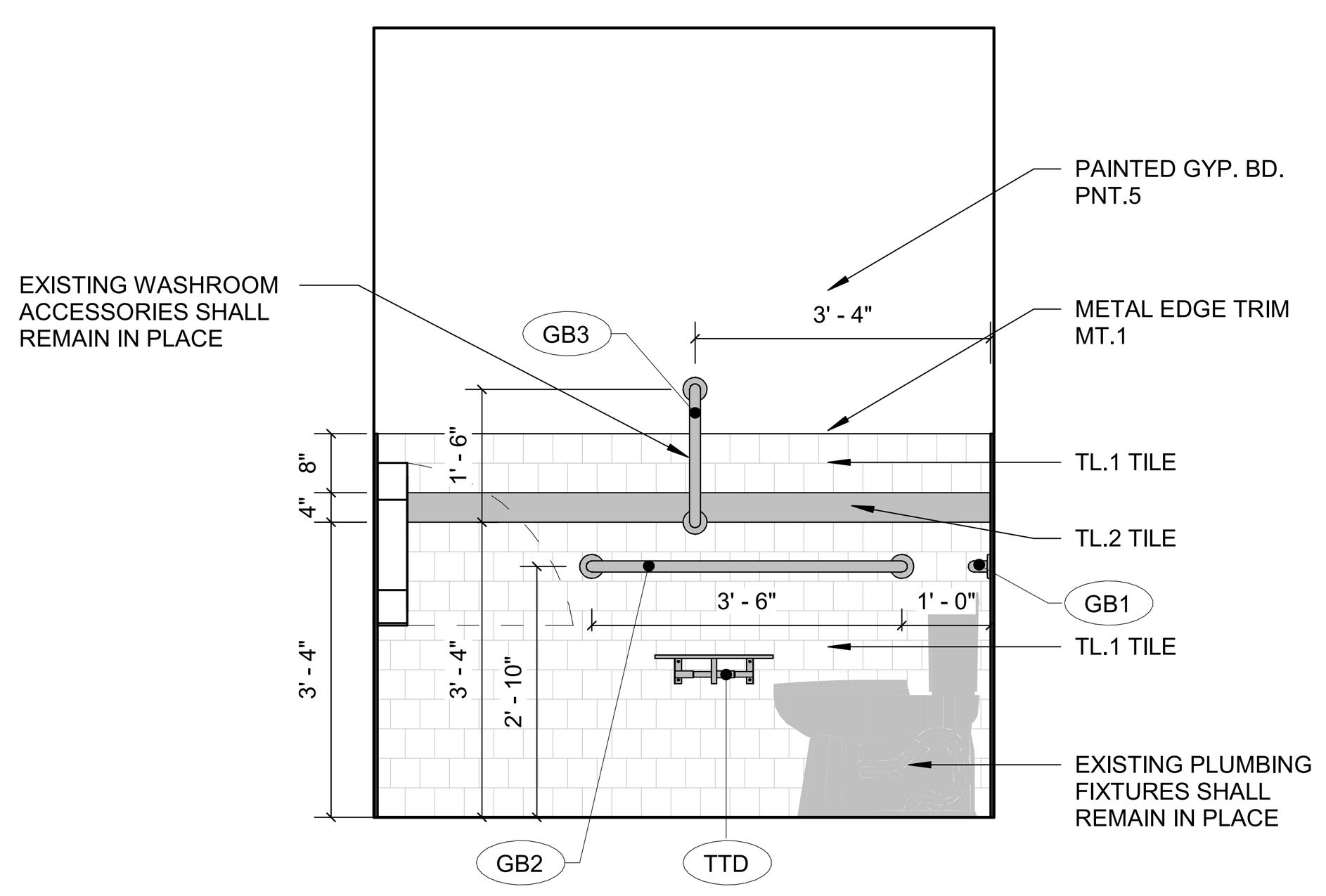
INTERIOR SECTIONS

A-320

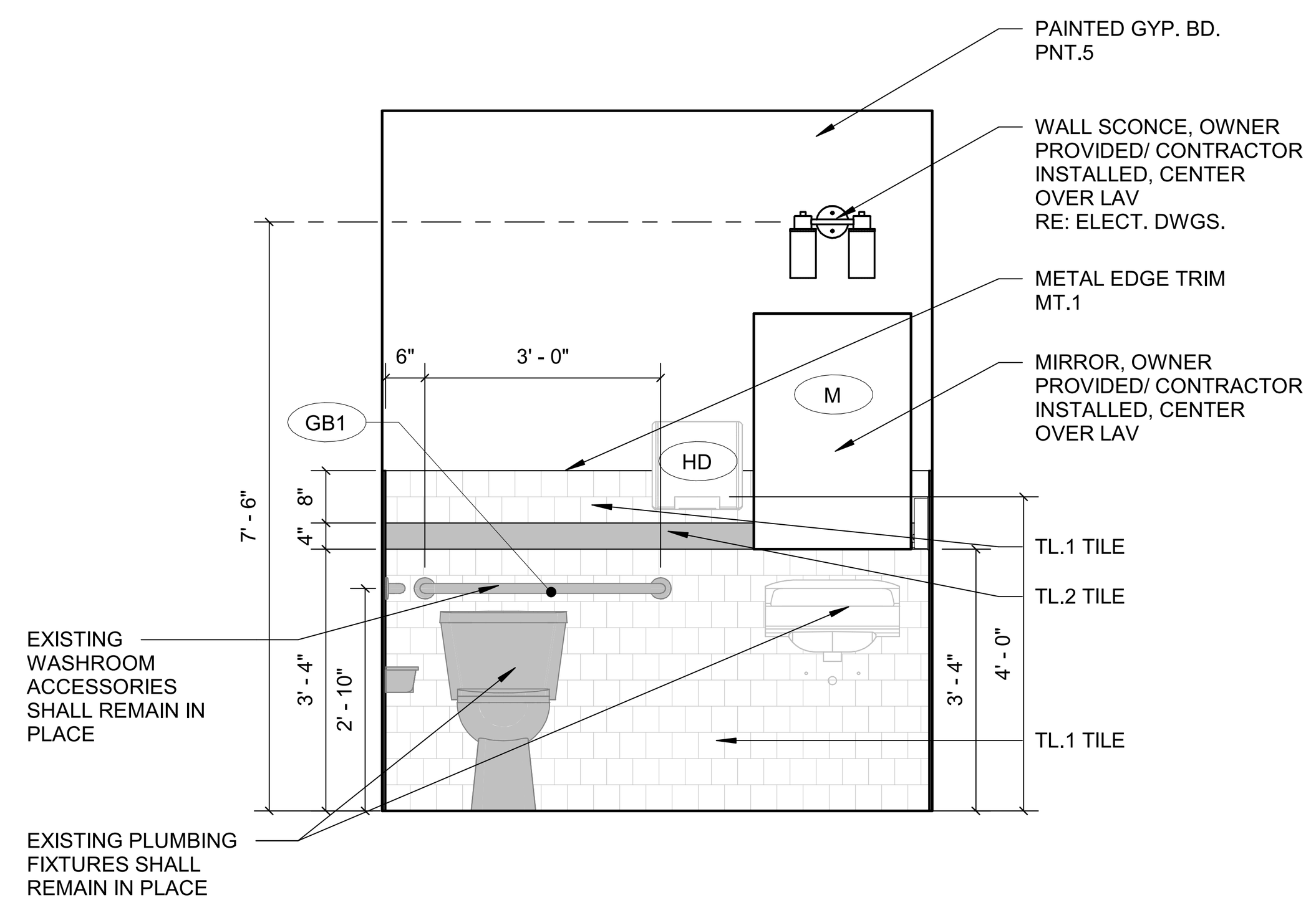
SHEET SIZE: ARCH E1 30" x 42"

5 4 3 2 1

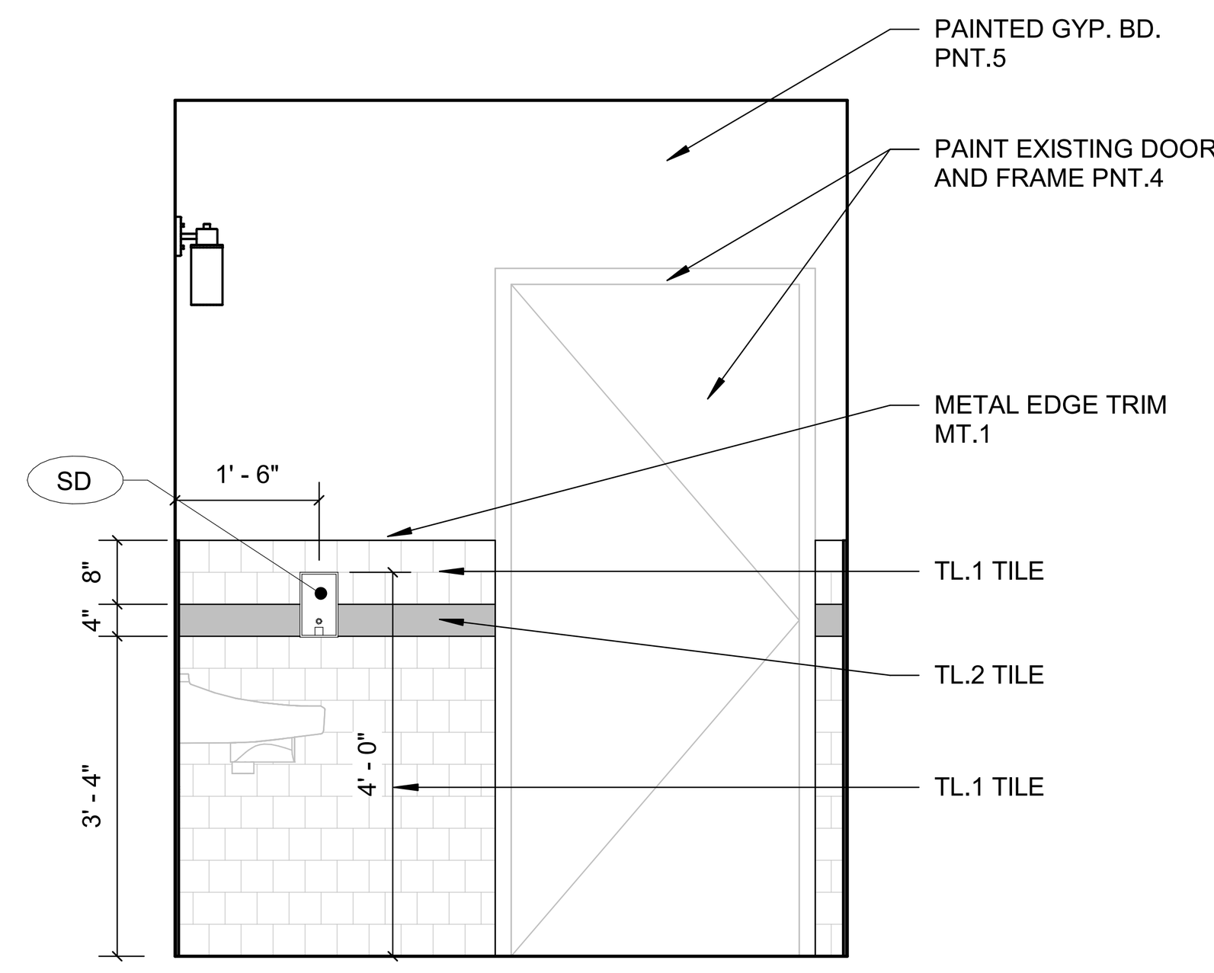
KEYNOTES



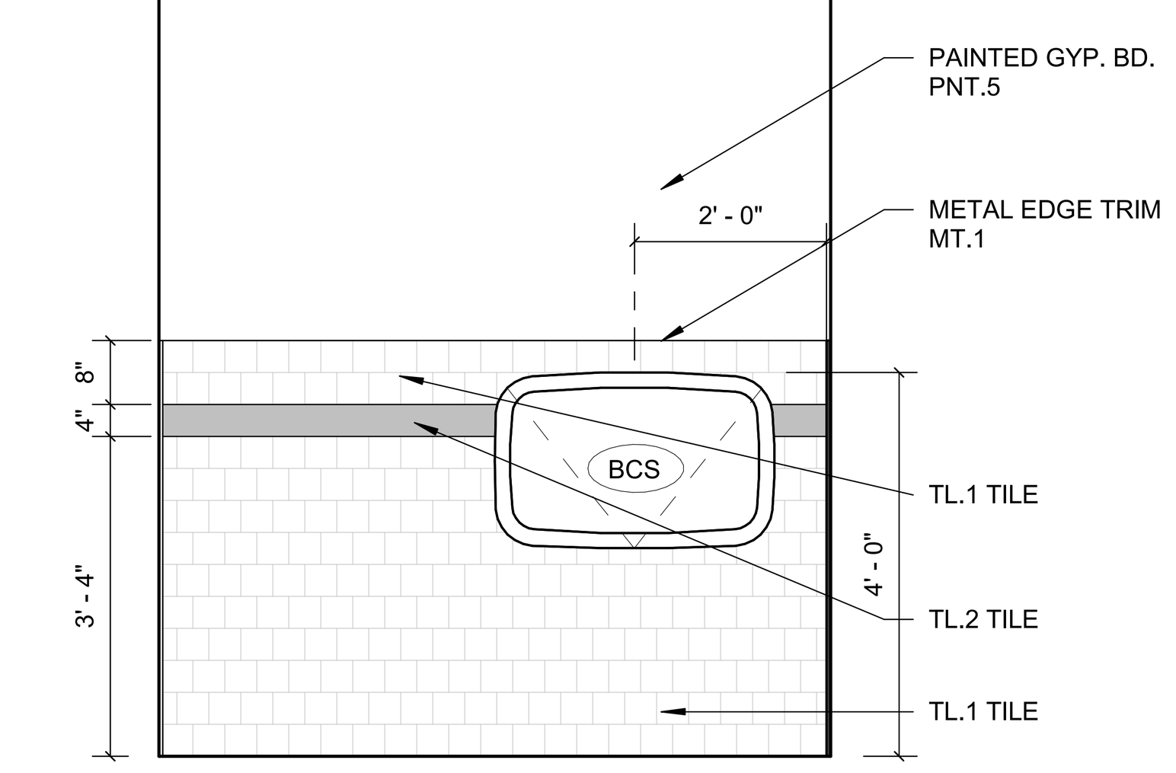
C5 RESTROOM NORTH
SCALE: 1/2" = 1'-0"



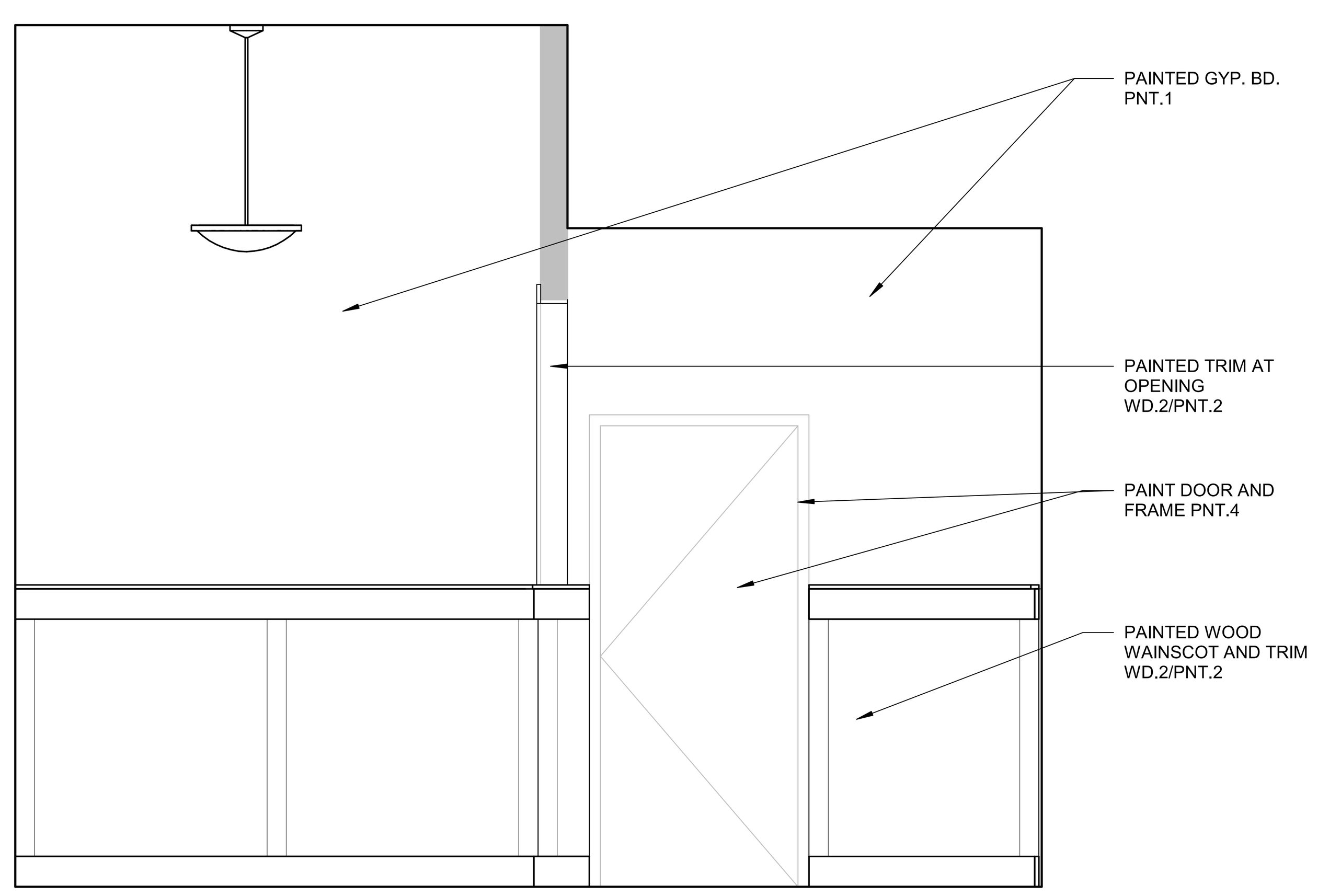
C3 RESTROOM EAST
SCALE: 1/2" = 1'-0"



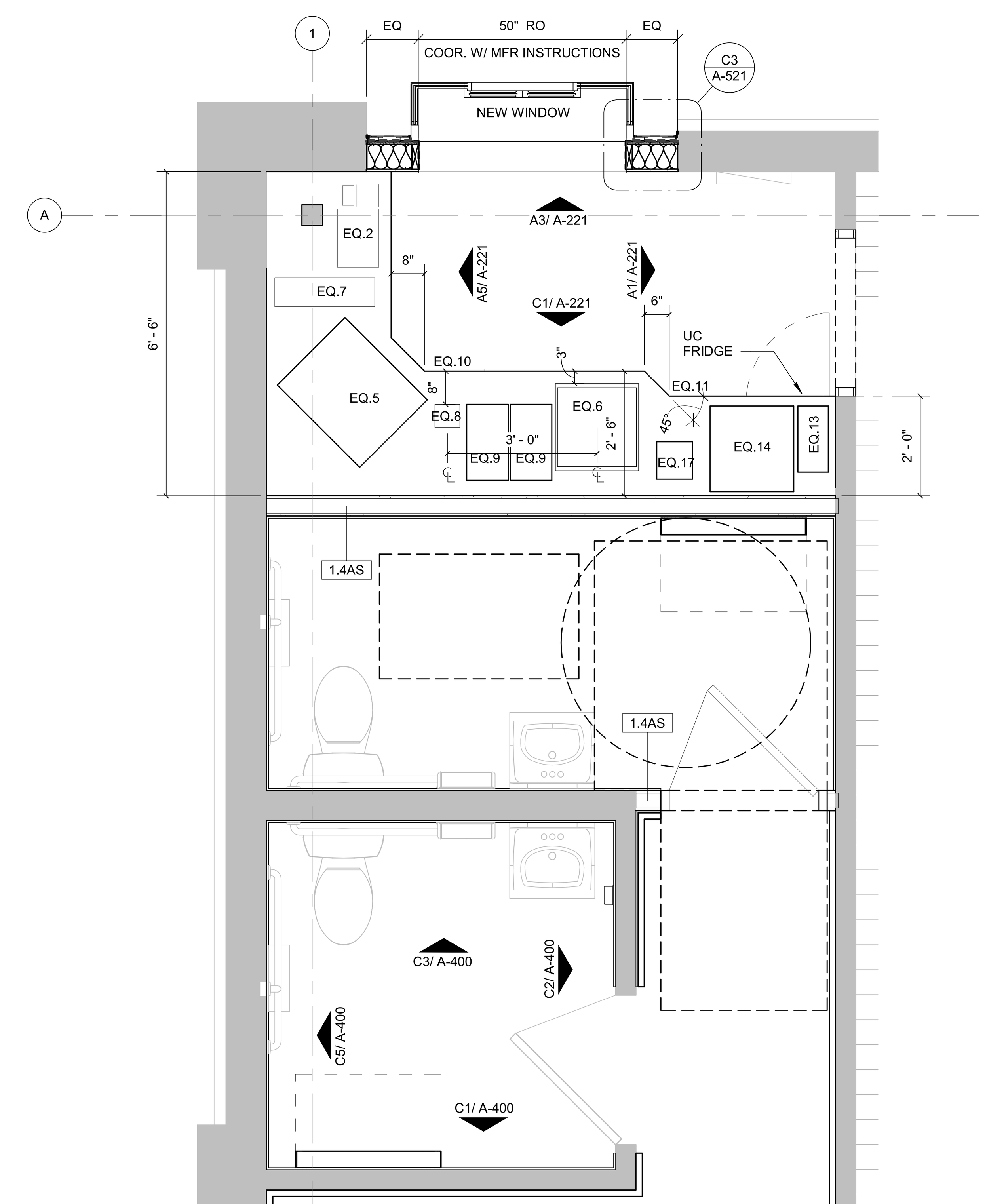
C2 RESTROOM SOUTH
SCALE: 1/2" = 1'-0"



C1 RESTROOM WEST
SCALE: 1/2" = 1'-0"



A5 RESTROOM ENTRANCE
SCALE: 1/2" = 1'-0"



A1 ENLARGED RESTROOM PLAN
SCALE: 1/2" = 1'-0"

RESTROOM ACCESSORY ITEMS

GB1	36" GRAB BAR - REUSE EXISTING
GB2	42" GRAB BAR - REUSE EXISTING
GB3	18" GRAB BAR - REUSE EXISTING
M	MIRROR - OF/CI
HD	HAND DRYER - REUSE EXISTING
SD	SOAP DISPENSER - REUSE EXISTING
TTD	TOILET TISSUE DISPENSER - REUSE EXISTING
BCS	BABY CHANGING STATION - REUSE EXISTING

PLAN NORTH

YAEGER ARCHITECTURE

STATE OF MISSOURI
CARL JOSEPH YAEGER
NUMBER A-008753
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Summer Moon COFFEE

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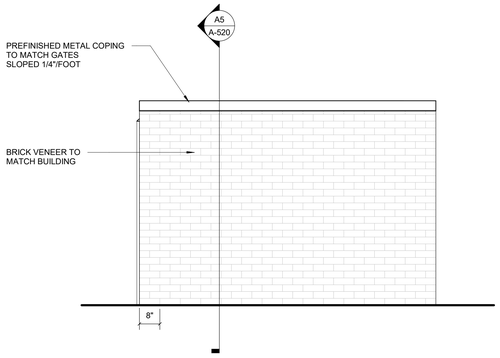
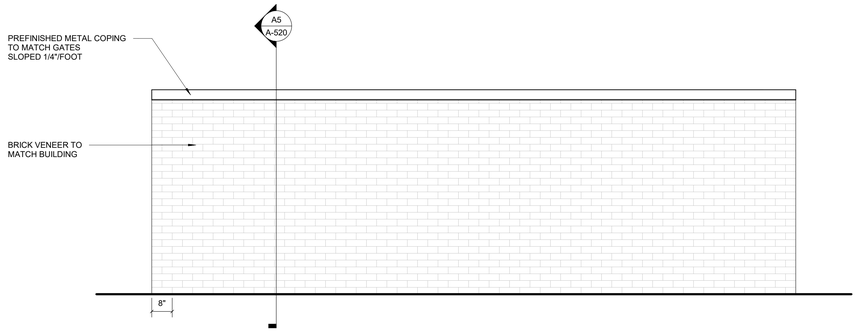
ENLARGED FLOOR PLANS

A-400

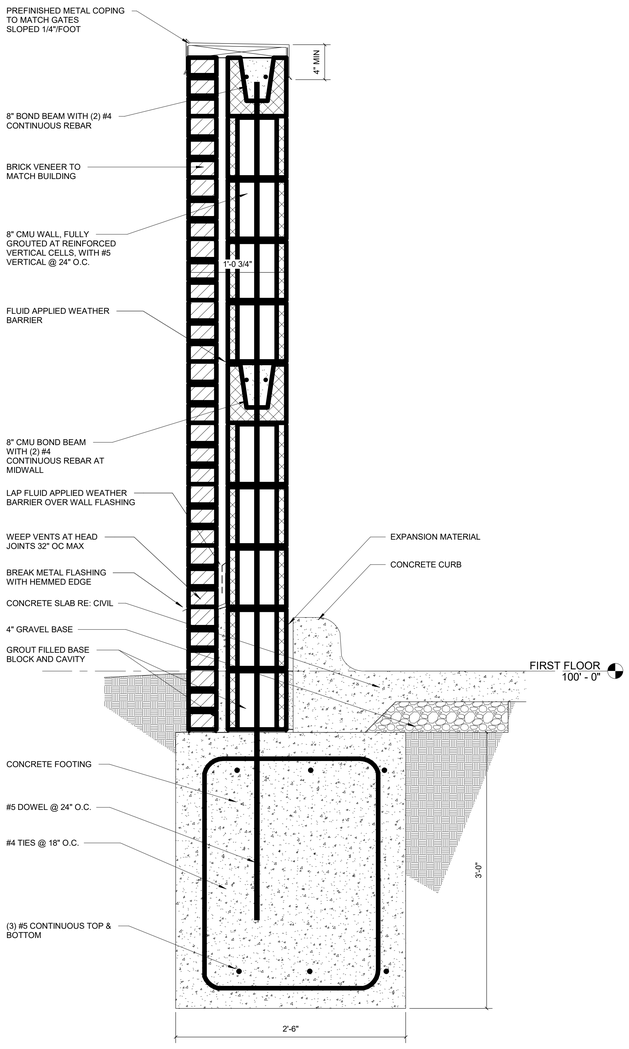
SHEET SIZE: ARCH E1 30" x 42"
FILE PATH: Autodesk Docs://22056-Summer Moon Coffee/22056_SUMMER MOON_R23.rvt
PLOT DATE: 2/17/2023 11:52:29 AM



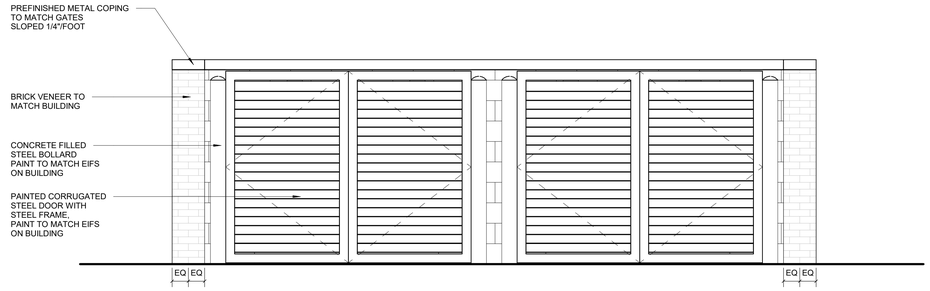
D5 TRASH ENCLOSURE SOUTH
SCALE: 1/2" = 1'-0"



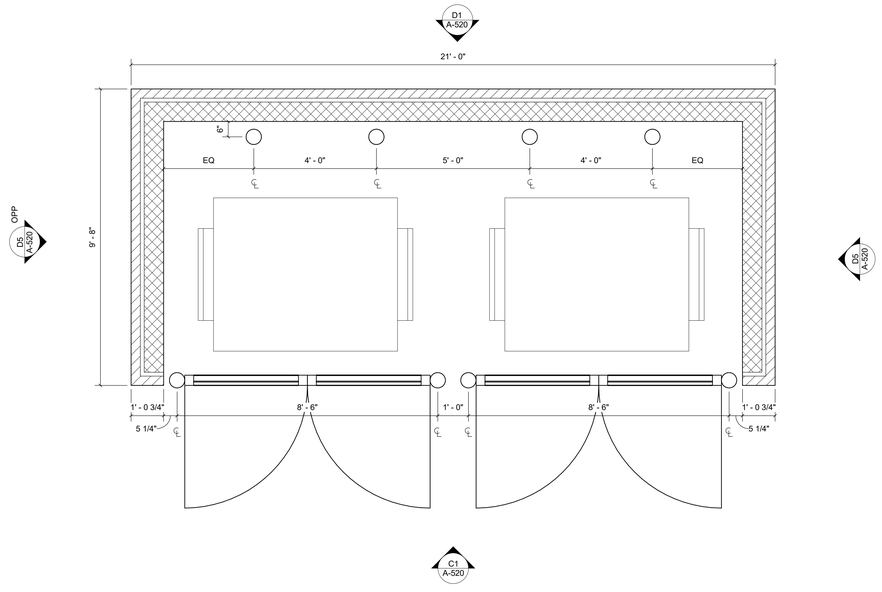
D1 TRASH ENCLOSURE EAST
SCALE: 1/2" = 1'-0"



A5 TRASH ENCLOSURE SECTION
SCALE: 1 1/2" = 1'-0"



C1 TRASH ENCLOSURE WEST
SCALE: 1/2" = 1'-0"



A1 TRASH ENCLOSURE PLAN
SCALE: 1/2" = 1'-0"

KEYNOTES

YAEGER ARCHITECTURE

STATE OF MISSOURI
DARL JOSEPH YAEGER
NUMBER A-2005
REGISTERED ARCHITECT
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Summer Moon COFFEE

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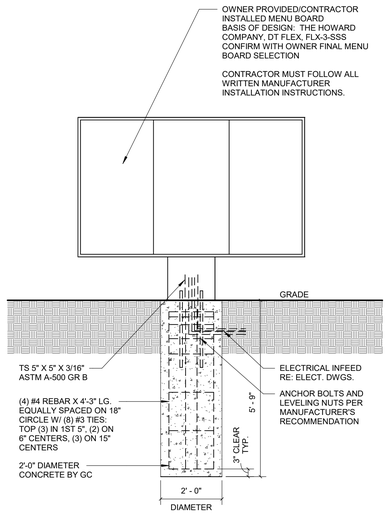
EXTERIOR DETAILS

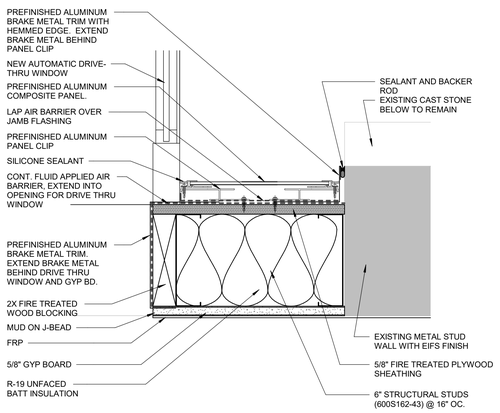
A-520

PLAN NORTH

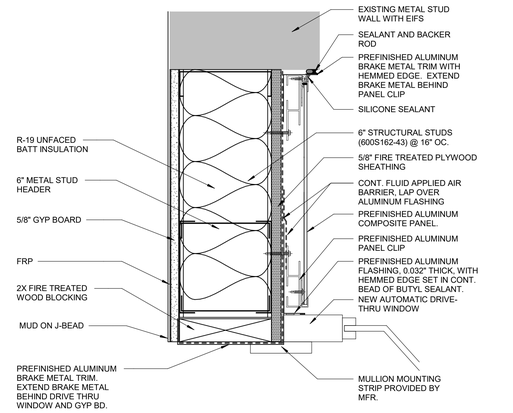
FILE PATH: Autodesk Docs://22056 Summer Moon Coffee/22056_SUMMER MOON_R23.rvt
PLOT DATE: 2/17/2023 11:42:29 AM
SHEET SIZE: ARCH E1 30" x 42"



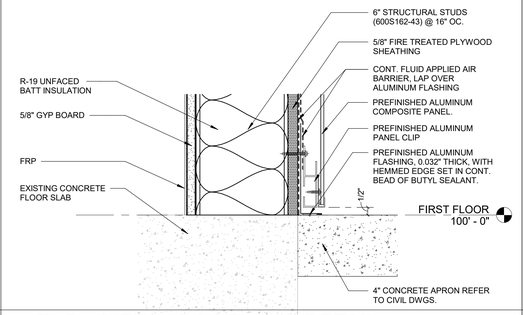
C5 MENU ELEVATION
SCALE: 1/2" = 1'-0"



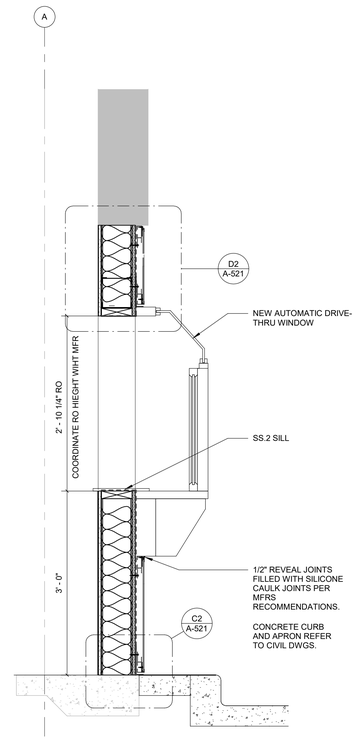
C3 DRIVE-THRU-JAMB DETAIL
SCALE: 3" = 1'-0"



D2 WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"

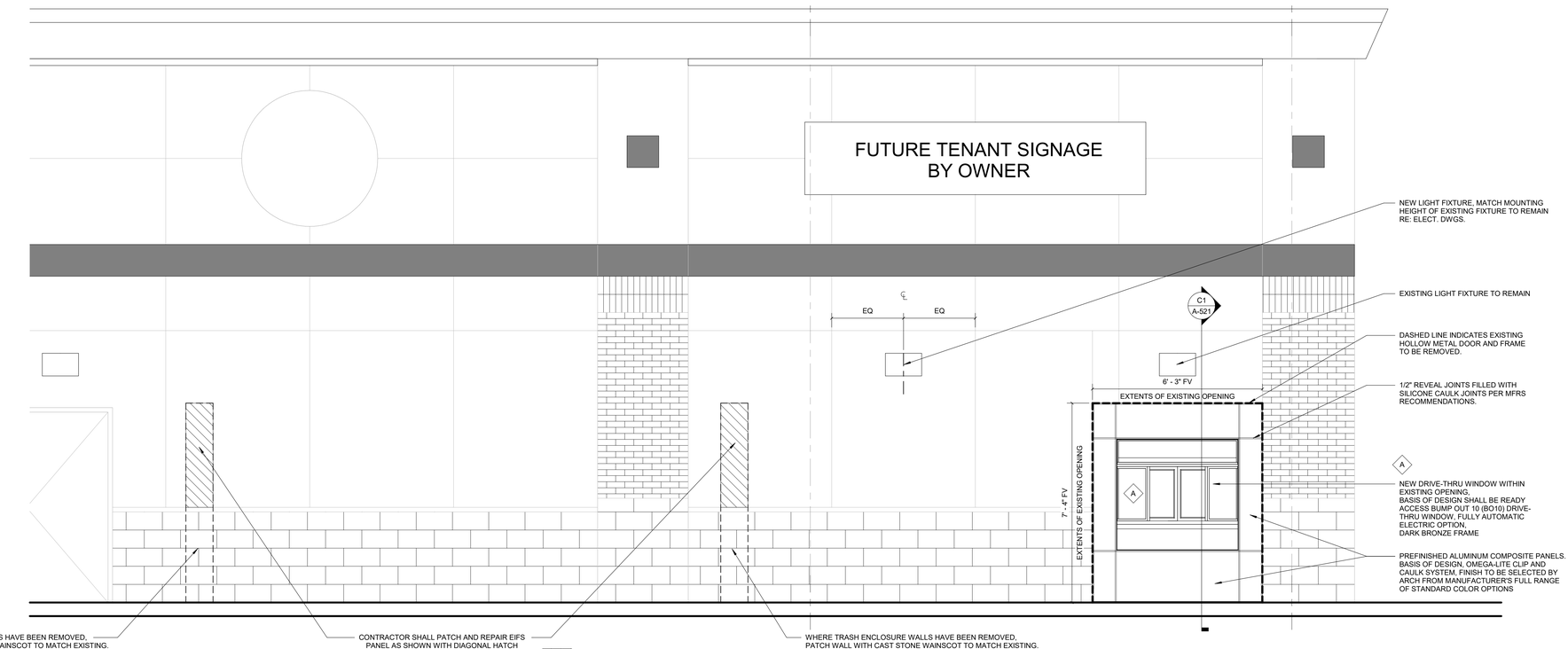


C2 METAL PANEL SILL DETAIL
SCALE: 3" = 1'-0"



C1 WINDOW SECTION
SCALE: 1" = 1'-0"

KEYNOTES



A1 EAST EXTERIOR ELEVATION
SCALE: 1/2" = 1'-0"

YAEGER ARCHITECTURE

STATE OF MISSOURI
DARL JOSEPH YAEGER
NUMBER A-6055
REGISTERED ARCHITECT
2/16/23

ARCHITECT
YAEGER ARCHITECTURE, INC.
8655 Penrose Lane, Suite 300
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Fax: (913) 742-8570
yaegerarchitecture.com

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ric-consult.com

699 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

Summer Moon COFFEE

PROJECT NO:	22056
DATE:	2023-02-17
DRAWN BY:	
CHECKED BY:	
CHECKED BY:	

REVISED DATE	DESCRIPTION

EXTERIOR DETAILS

A-521

FILE PATH: Autodesk Docs://22056-Summer Moon Coffee/22056_SUMMER MOON_R23.rvt
PLOT DATE: 2/17/2023 11:02:29 AM
SHEET SIZE: ARCH E1 30" x 42"

CUSTOM CASEWORK SPECIFICATIONS

- ALL CUSTOM ARCHITECTURAL CASEWORK AND MILLWORK SHALL BE AWI CUSTOM GRADE OR HIGHER
- WD.1 SHALL BE SELECT WHITE OAK, STAINED PER SCHEDULE. FINISH WITH SATIN POLYURETHANE
- WD.2 SHALL BE PAINT GRADE HARDWOOD, PAINTED PER SCHEDULE.
- CABINETRY SHALL BE FULL OVERLAY CONSTRUCTION.
- ALL CABINET DOORS SHALL USE EUROSTYLE, CONCEALED HINGES.
- ALL CABINET DOORS SHALL USE PULLS BY HOUSE OF ANTIQUE HARDWARE; BRIXTON CABINET PULL, 7-9/16", COLOR: SABLE
- FABRICATOR SHALL COORDINATE CASEWORK WITH ALL OWNER PROVIDED FOOD SERVICE EQUIPMENT. SOME PIECES OF EQUIPMENT REQUIRE PARTICULAR CLEARANCES AND CUTOUTS.

D1 CASEWORK SPECS

SCALE: NTS

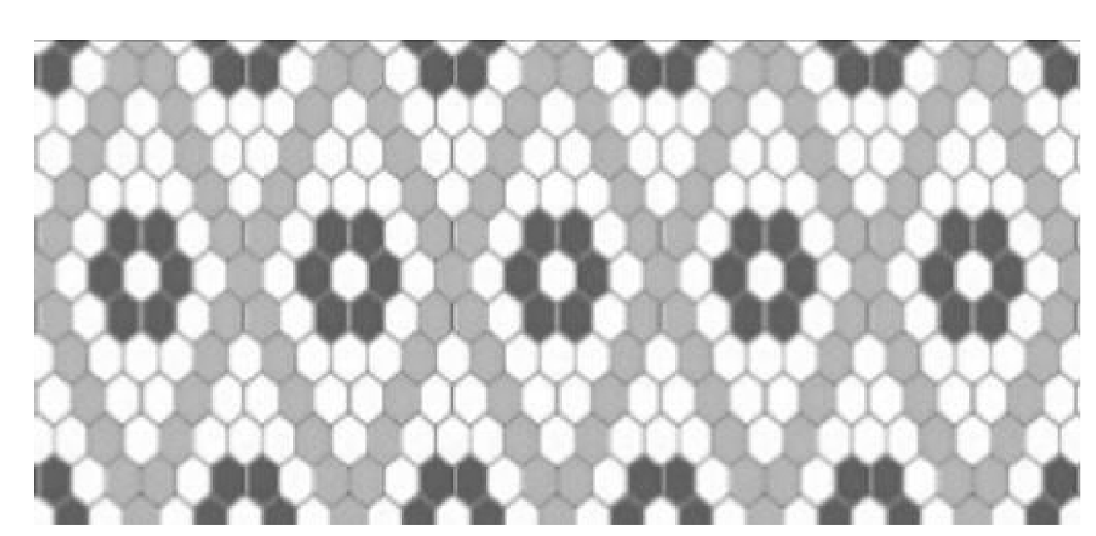
INTERIOR FINISH SCHEDULE

CODE	MANUFACTURER	MODEL OR ITEM NO.	COLOR	PRODUCT DESCRIPTION	COMMENTS
01 BRICK					
BK.1	MCNEAR BRICK	MODULAR FLAT	VERONA	THIN BRICK VENEER	MORTAR COLOR TBD FROM MANUFACTURER'S FULL RANGE
02 CEILING TILE					
CT.1	AMERICAN TIN CEILINGS	PATTERN #2	MATTE WHITE	24" X 24" TIN CEILING WITH GRID	WHITE GRID
CT.2	ARMSTRONG	KITCHEN ZONE	WHITE	24" X 48" VINYL FACED CEILING PANELS WITH GRID	WHITE 15/16" GRID
CT.3	ARMSTRONG	DUNE	WHITE	24" X 24" MINERAL FIBER CEILING PANEL WITH GRID	WHITE 15/16" GRID
03 SEALED CONCRETE					
SC.1	-	-	-	GRIND AND SEALED CONCRETE FLOOR	PENDING CONDITION OF CONCRETE ONCE QUARRY TILE IS REMOVED
04 LVP					
LVP.1	SLCC FLOORING	BORROWED SCENERY	CITRON	GLUE DOWN LVP FLOORING	INSTALL AT 45 DEGREE ANGLE RUNNING NORTHEAST TO SOUTHWEST
05 METAL TRIM					
MT.1	SCHLUTER	JOLLY	BRUSHED GRAPHITE	METAL EDGE TRIM FOR TILE	SIZE PER TILE THICKNESS
06 PAINT					
PNT.1	SHERWIN WILLIAMS	EMERALD	PURE WHITE SW7055	INTERIOR PAINT, FOR GYPSUM BOARD SUBSTRATE	EGGSHELL FINISH
PNT.2	SHERWIN WILLIAMS	PROCLASSIC WATERBORNE INTERIOR ACRYLIC ENAMEL	ENDLESS SEA SW9150	INTERIOR PAINT, FOR WOOD SUBSTRATE	SEMI-GLOSS FINISH
PNT.3	SHERWIN WILLIAMS	PROCLASSIC WATERBORNE INTERIOR ACRYLIC ENAMEL	TRICORN BLACK SW6258	INTERIOR PAINT, FOR WOOD SUBSTRATE	SATIN FINISH
PNT.4	SHERWIN WILLIAMS	PROCLASSIC INTERIOR WATERBASED ACRYLIC ALKYD	PURE WHITE SW7055	INTERIOR PAINT, FOR METAL DOORS AND FRAMES	SATIN FINISH
PNT.5	SHERWIN WILLIAMS	EMERALD	ENDLESS SEA SW9150	INTERIOR PAINT, FOR GYPSUM BOARD SUBSTRATE	SATIN FINISH
08 SOLID SURFACE					
SS.1	MSI	QUARTZ SLAB	CARRARA MARMI	3CM SLAB	EASE EDGE, TYPICAL, FOLLOW ALL MANUFACTURER RECOMMENDATIONS FOR SUPPORTING COUNTERTOP
SS.2	CORIAN	1/2" THICK SOLID SURFACE COUNTERTOP OVER	GLACIER WHITE	1/2" SOLID SURFACE COUNTERTOP, SUPPORT WITH 3/4" MOISTURE RESISTANT PLYWOOD SUBSTRATE AND STEEL WALL BRACKETS	1.5" BUILT UP EDGE, EASE EDGE, COORDINATE WALL BRACKET PLACEMENT WITH OWNER'S EQUIPMENT
09 TILE					
TL.1	DALTILE	COLOR WHEEL CLASSIC	0190 ARTIC WHITE	4X4, GLOSSY TILE	BRICK LAY, GROUT - CUSTOM CHARCOAL #60
TL.2	DALTILE	RETRO ROUNDS	CANVAS BLACK GLOSS #RR14	MOSAIC PENNY ROUNDS	GROUT - CUSTOM CHARCOAL #60
TL.3	DALTILE	JOLLY PENCIL TRIM	ARTIC WHITE	1/2" X 12" TRIM	GROUT - CUSTOM CHARCOAL #60
TL.4	AMERICAN OLEAN	CUSTOM MOSIC PATTERN (SEE PHOTO BELOW OF PATTERN)	ICE WHITE (A25), SERENITY (A50) AND DISCOVERY (A36)	CUSTOM MOSAIC PATTERN	GROUT - CUSTOM CHARCOAL #60
TL.5	MSI	KASBAH	-	8" SQUARE FLOOR TILE	MATTE, GROUT - CUSTOM CHARCOAL #60
10 WOOD					
WD.1	-	-	MINWAX HEIRLOOM OAK	SELECT WHITE OAK	STAIN AND SEAL WITH SATIN FINISH
WD.2	-	-	PAINT PNT.2	PAINT GRADE WOOD	PAINTED FINISH
11 WALLPAPER					
WP.1	MDC	CUSTOM SUMMER MOON PRINT	CUSTOM	WALLCOVERING	-
12 BASE					
RB.1	ROPPE	6" RUBBER BASE WITH STANDARD TOE	CHARCOAL	RUBBER BASE	-
13 FRP					
FRP.1	MARLITE	STANDARD FRP	P151 LIGHT GRAY	4X8 SHEETS	USE MATCHING TOP CAP AND JOINT TRIMS
14 PLASTIC LAMINATE					
PLAM.1	WILSONART	HIGH PRESSURE PLASTIC LAMINATE	DESIGNER WHITE		USE MATCHING EDGEBAND

GENERAL FINISH NOTES

1. INSTALL ALL FINISH MATERIALS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. PAINT HOLLOW METAL DOOR FRAMES PNT.4, UNLESS NOTED OTHERWISE.
3. ALL CASEWORK SHALL BE AWI CUSTOM GRADE OR HIGHER.

TL.4 CUSTOM MOSAIC PATTERN



A1 INTERIOR FINISH SCHEDULE

SCALE:

SHEET SIZE: ARCH E1 30" x 42"

YAEGER ARCHITECTURE

STATE OF MISSOURI
CARL JOSEPH YAEGER
NUMBER A-005753
REGISTERED ARCHITECT
2/16/23

ARCHITECT
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pkmreng.com

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699 NW BLUE PARKWAY
LEE'S SUMMIT, MO 64086

Summer Moon COFFEE

PROJECT NO: 22056
DATE: 2023-02-17
DRAWN BY:
CHECKED BY:
CHECKED BY:

△	REVISED DATE	DESCRIPTION

FINISH SCHEDULES

A-600

ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

CIRCUITING

- HOME RUN (2)#12W, (1)#12G UNLESS NOTED OTHERWISE
- INDICATES 2 PHASE, 1 N, AND 1 GND CONDUCTORS
- HOME RUN. SECOND SYMBOL INDICATES SHARED CIRCUIT.
- HOME RUN. SECOND SYMBOL DENOTES #10 CONDUCTORS.

UTILITIES

Symbol	Description
OHE	OVERHEAD ELECTRICAL FEEDER AND/OR CONDUITS
UGC	UNDERGROUND ELECTRICAL FEEDER AND/OR CONDUITS
TELE	ABOVE-GRADE TELECOMMUNICATIONS CONDUIT(S)
TELE	TELECOMMUNICATIONS CONDUIT(S) BELOW GRADE

LIGHTING

Symbol	Description
	GRID-MOUNTED TROFFER LIGHT FIXTURE
	EMERGENCY/EGRESS LIGHT FIXTURE
	CRITICAL / STANDBY LIGHT FIXTURE
	STRIP LIGHT FIXTURE
	SURFACE/RECESSED LIGHT FIXTURE
	WALL-MOUNTED LIGHT FIXTURE
	POLE-MOUNTED LIGHT FIXTURE
	EXIT LIGHT (WALL / CEILING MOUNTED)
	BATTERY-OPERATED EMERGENCY LIGHT (WALL-MTD)
	BATTERY-OPERATED EMERGENCY LIGHT (CEILING-MTD)
	COMBINATION WALL-MOUNTED EXIT LIGHT / BATTERY-OPERATED EMERGENCY LIGHT
$	LIGHT SWITCH - SINGLE POLE
$_3	LIGHT SWITCH - 3-WAY
$_4	LIGHT SWITCH - 4-WAY
$_K	LIGHT SWITCH - KEY
$_D	LIGHT SWITCH - DIMMER
$_PL	LIGHT SWITCH - WITH PILOT LIGHT
$_M	WALL-MOUNTED MOTION SENSOR.
	WALL (CORNER) - MOUNTED MOTION SENSOR.
M	CEILING-MOUNTED MOTION SENSOR.
SB	SWITCHBANK. REFER TO PLANS / DETAILS.
$_DL1	LOW-VOLTAGE DATALINE SWITCH - RE: DETAILS.
RCS-1	REMOTE CONTROL SWITCH AS SCHEDULED.
TC	TIMECLOCK. REFER TO PLANS / DETAILS.

POWER DEVICES

Symbol	Description
	DUPLEX RECEPTACLE
	LINE THROUGH DEVICE INDICATES ABOVE COUNTER
	SWITCHED RECEPTACLE. MOUNT UPSIDE DOWN.
	QUAD-PLEX RECEPTACLE
5-20R	SIMPLEX RECEPTACLE W/ NEMA CONFIG AS NOTED
14-50R	MULTI-POLE RECEPTACLE W/ NEMA CONFIG AS NOTED
	CEILING-MOUNTED RECEPTACLE
	RECEPTACLE/DEVICE MOUNTED IN "TOMBSTONE"
J	JUNCTION BOX
	FIRE-RATED POKE-THRU - POWER ONLY
	POKE-THRU WITH DATA JACKS
	POKE-THRU WITH POWER AND DATA
FB	SINGLE GANG FLOOR BOX (2,3,4 GANG SIMILAR)
	DIVIDED (HIGH/LOW VOLTAGE) POWER POLE
	PLUG MOLD / WIRE MOLD AS SPECIFIED.
	PUSH BUTTON

TELEPHONE/DATA

Symbol	Description
	TELEPHONE JACK LOCATION (SINGLE-GANG BOX W/ (1)3/4" C. TO ABOVE ACCESSIBLE CEILING)
	LINE THROUGH DEVICE INDICATES ABOVE COUNTER
	DATA JACK LOCATION (DOUBLE-GANG BOX W/ (2)3/4" CONDUITS TO ABOVE ACCESSIBLE CEILING)
	TELE/DATA JACK LOCATION (DOUBLE-GANG BOX W/ (2)3/4" C. TO ABOVE ACCESSIBLE CEILING)
1V	PHONE OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED - REFER TO DETAILS FOR ADDITIONAL INFORMATION
1D	DATA OUTLET WITH NUMBER OF DATA JACKS AS INDICATED - REFER TO DETAILS FOR ADDITIONAL INFORMATION
1D/1V	TELE/DATA OUTLET WITH NUMBER OF PHONE AND DATA JACKS AS INDICATED - REFER TO DETAILS.
W	WIRELESS INTERNET TRANSMITTER.

AUDIO/VISUAL

Symbol	Description
TV	TELEVISION JACK LOCATION (SINGLE-GANG BOX W/ (1)3/4" C. TO ABOVE ACCESSIBLE CEILING)
TR	REVERSE TELEVISION JACK LOCATION (CABLE TO HEAD END)
S	WALL-MOUNTED SPEAKER LOCATION (SINGLE-GANG BOX)
S	CEILING SPEAKER LOCATION (SINGLE-GANG BOX)
V	VOLUME CONTROL LOCATION (SINGLE GANG BOX)

FIRE ALARM

Symbol	Description
F	MANUAL PULL STATION (DUAL-ACTION)
D	SMOKE DETECTOR
D	DUCT SMOKE DETECTOR
H	HEAT DETECTOR
CO	CARBON MONOXIDE DETECTOR
WF	WATER FLOW SWITCH
TS	TAMPER SWITCH
75	WALL-MOUNTED FA STROBE WITH CANDELA RATING. 15cd RATING UNLESS OTHERWISE NOTED ON PLANS.
30	WALL-MOUNTED FA HORN/STROBE WITH CANDELA RATING. 15cd UNLESS OTHERWISE NOTED ON PLANS.
	WALL-MOUNTED FIRE ALARM HORN
	WALL-MOUNTED FIRE ALARM SPEAKER
30	WALL-MOUNTED FA SPEAKER/STROBE WITH CANDELA RATING. 15cd UNLESS OTHERWISE NOTED ON PLANS.
75	CEILING-MOUNTED FA STROBE LIGHT WITH CANDELA RATING. MIN. OF 15cd RATING.
30	CEILING-MOUNTED COMBINATION HORN/STROBE WITH CANDELA RATING. MIN. OF 15cd RATING.
30	CEILING-MOUNTED COMBINATION SPEAKER/STROBE WITH CANDELA RATING. MIN. OF 15cd RATING.
	CEILING-MOUNTED FIRE ALARM SPEAKER
R	FIRE ALARM RELAY
IAM	INDIVIDUAL ADDRESSABLE MODULE
ZAM	ZONE ADDRESSABLE MODULE
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FAEC	FIRE ALARM AUXILIARY POWER SUPPLY
D 120 V	SINGLE / MULTI-STATION 120V SMOKE ALARM
DH	DOOR HOLD-OPEN

EQUIPMENT

Symbol	Description
	DISCONNECT SWITCH. RE: PLANS FOR INFORMATION.
	MAGNETIC MOTOR STARTER
	COMBINATION DISCONNECT SWITCH / MOTOR STARTER
$	TOGGLE-TYPE DISCONNECT SWITCH. WHERE USED FOR MOTORS, PROVIDE W/ THERMAL PROTECTION.
	SURFACE-MOUNTED PANELBOARD
	RECESSED PANELBOARD
	DISTRIBUTION PANELBOARD
	SWITCHBOARD. FEEDER/MAIN CIRCUIT BREAKER SECTION AND DISTRIBUTION SECTION.

GENERAL SYMBOLS

Symbol	Description
	INDICATES CONNECT TO EXISTING
XXX	EQUIPMENT TAG. REFER TO CONNECTIONS SCHEDULE(S) FOR ELECTRICAL CONNECTIONS AND LOAD INFORMATION FOR EQUIPMENT (KITCHEN, SHOP, ETC.)

MECHANICAL AND PLUMBING SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

SHEET METAL

Symbol	Description
	HIGH-EFFICIENCY DUCT TAKEOFF (WITH AND WITHOUT MANUAL DAMPER)
	SPIN-IN ROUND DUCT TAKEOFF
	CONICAL BELLMOUTH ROUND DUCT TAKEOFF
	ROUND DUCT TAKEOFF WITH FLEX DUCT RUNOUT (MAXIMUM FLEX DUCT LENGTH IS 6'-0")
	DUCTWORK ELBOWS (WITH AND WITHOUT TURNING VANES)
FD	FD: FIRE DAMPER; FS: FIRE/SMOKE DAMPER; SD: SMOKE DAMPER; BD: BACKDRAFT DAMPER (GRAVITY)
MD	AUTOMATIC MOTORIZED DAMPER
8"Ø S1 225	SUPPLY DIFFUSER AND CALLOUT (NECK SIZE, TYPE, AND CFM)
	LINEAR/SLOT DIFFUSER
22x22 R1	RETURN GRILLE (NECK SIZE AND TYPE, MAY ALSO INCLUDE CFM)
10x10 E1	EXHAUST GRILLE (NECK SIZE AND TYPE, MAY ALSO INCLUDE CFM)
	SUPPLY AIR FLOW INDICATOR
	RETURN OR EXHAUST AIR FLOW INDICATOR
	THERMOSTAT
	TEMPERATURE SENSOR
H	HUMIDISTAT
	CONTROL WIRING

MEDICAL GAS

Symbol	Description
MV	MEDICAL VACUUM PIPING
O	OXYGEN PIPING
NO	NITROUS OXIDE PIPING
MA	MEDICAL COMPRESSED AIR PIPING
N	NITROGEN PIPING
CO	CARBON DIOXIDE PIPING
VV	VACUUM VENT PIPING
WAGD	WASTE ANESTHETIC GAS DISPOSAL PIPING
GV	MEDICAL GAS VENT PIPING
X	MEDICAL GAS INLET/OUTLET W/DESIGNATION (RE: PIPE TYPES)
S	MEDICAL SLIDE
MA	MEDICAL GAS ALARM WIRING CONNECTION
PS	MEDICAL GAS ALARM WIRING - PRESSURE SWITCH
TR	MEDICAL GAS ALARM WIRING - TRANSDUCER

GENERAL SYMBOLS

Symbol	Description
	INDICATES CONNECT TO EXISTING
FL ?	INDICATES ELEVATION
W&V #1	PLUMBING RISER CALLOUT (TYPE/RISER NO.) (W&V = WASTE AND VENT, WAT = DOMESTIC WATER)
XXX	EQUIPMENT TAG. REFER TO CONNECTIONS SCHEDULE(S) FOR ELECTRICAL CONNECTIONS AND LOAD INFORMATION FOR EQUIPMENT (KITCHEN, SHOP, ETC.)

MECHANICAL PIPING

Symbol	Description
D	DRAIN (CONDENSATE)
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RV	REFRIGERANT VENT
RD	RUPTURE DISK
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
C/HWS	CHILLED/HOT WATER SUPPLY
C/HWR	CHILLED/HOT WATER RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
CTWS	COOLING TOWER WATER SUPPLY
CTWR	COOLING TOWER WATER RETURN
STM	STEAM (ANY #'S DENOTE PRESSURE)
CR	CONDENSATE RETURN (ANY #'S DENOTE PRESSURE)

PLUMBING PIPING

Symbol	Description
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	RECIRCULATING DOMESTIC HOT WATER
SAN	WASTE ABOVE GRADE OR FLOOR
SAN	WASTE BELOW GRADE OR FLOOR
V	PLUMBING VENT
W	WATER SERVICE
ST	STORM DRAIN ABOVE GRADE OR FLOOR
ST	STORM DRAIN BELOW GRADE OR FLOOR
ST/O	STORM OVERFLOW ABOVE GRADE OR FLOOR
ST/O	STORM OVERFLOW BELOW GRADE OR FLOOR
SCW	SOFT COLD WATER
SHW	SOFT HOT WATER
SRW	SOFT RECIRCULATING HOT WATER
RO	REVERSE OSMOSIS WATER
DI	DE-IONIZED WATER
G	NATURAL GAS
LP	PROPANE
NP	NON-POTABLE WATER
CA	COMPRESSED AIR
ACID	ACID WASTE
ACID	ACID VENT
PD	PUMPED DISCHARGE (FROM SUMP PUMPS / EJECTORS)

FIRE SPRINKLER

Symbol	Description
F	FIRE SPRINKLER PIPING/SERVICE
	FIRE SPRINKLER HEAD - PENDANT
	FIRE SPRINKLER HEAD - SIDEWALL
	FIRE DEPARTMENT SIAMESE CONNECTION
	POST INDICATOR VALVE

PIPING SYMBOLS

- SHUTOFF VALVE
- SHUTOFF VALVE IN RISER
- BALANCING VALVE
- PIPING ELBOW UP
- PIPING ELBOW DOWN
- PIPING TEE
- PIPING ELBOW
- PIPING TEE UP
- PIPING TEE DOWN
- INCREASER/REDUCER
- UNION
- CAP
- PIPE FLEX
- 3-WAY VALVE
- CHECK VALVE
- Y-STRAINER
- IN-LINE (BASKET) STRAINER
- AUTOMATIC 2-WAY CONTROL VALVE
- AUTOMATIC 3-WAY CONTROL VALVE
- SOLENOID VALVE

PIPING SPECIALTIES

- PRESSURE AND TEMPERATURE GAUGE (WITH COCK)
- THERMOMETER
- PRESSURE REDUCING VALVE
- RELIEF VALVE
- WATER HAMMER ARRESTOR

PIPING FIXTURES / EQUIPMENT

Symbol	Description
	HOSE BIBB
	WALL HYDRANT
	CLEANOUTS
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
DCPB	DOUBLE CHECK BACKFLOW PREVENTER
WC-1, S-1	PLUMBING FIXTURE AND CALLOUT
	FLOOR DRAIN, AREA DRAIN, OR FLOOR SINK
	ROOF DRAIN OR OVERFLOW ROOF DRAIN

ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	ELEV	ELEVATION	MLO	MAIN LUGS ONLY
AFF	ABOVE FINISHED FLOOR	EM	EMERGENCY FIXTURE/DEVICE	NFA	NET FREE AREA
AFG	ABOVE FINISHED GRADE	EWT	ENTERING WATER TEMPERATURE	NL	NIGHT LIGHT
AG	ABOVE GRADE	EX	EXISTING ITEM	OA	OUTSIDE AIR
AHJ	AUTHORITY HAVING JURISDICTION	FFA	FROM FLOOR ABOVE	ORD	OVERFLOW ROOF DRAIN
AHU	AIR HANDLING UNIT	FFB	FROM FLOOR BELOW	P/C	PLUMBING CONTRACTOR
ARCH	ARCHITECT	FFCO	FINISH FLOOR CLEANOUT	PSI	POUNDS PER SQUARE INCH
BFP	BACKFLOW PREVENTER	FGCO	FINISH GRADE CLEANOUT	PVC	POLYVINYL CHLORIDE
BG	BELOW GRADE	FL	FLOW LINE	RA	RETURN AIR
BLDG	BUILDING	FLR	FLOOR	RE/REF	REFER TO / REFERENCE
BMS	BUILDING MANAGEMENT SYSTEM	FP	FIRE PROTECTION	RF	RELIEF FAN
C	CONDUIT	FPM	FEET PER MINUTE	RL	RELOCATED ITEM
CD	CANDELA	FWCO	FLUSH WALL CLEANOUT	RPZ	REDUCED PRESSURE ZONE
CD	COLD DECK	G	GROUND / GANG	RR	RESTROOM
CLG	COOLING	G/C	GENERAL CONTRACTOR	SA	SUPPLY AIR
CM	COORDINATE MOUNTING HEIGHT	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SPD	SURGE PROTECTIVE DEVICE
CO	CLEANOUT	GPM	GALLONS PER MINUTE	ST	SHUNT TRIP
CTE	CONNECT TO EXISTING	HD	HOT DECK	TA	TRANSFER AIR
DCVA	DOUBLE CHECK VALVE ASSEMBLY	HTG	HEATING	TFA	TO FLOOR ABOVE
DCW	DOMESTIC COLD WATER	IG	ISOLATED GROUND	TFB	TO FLOOW BELOW
DDC	DIRECT DIGITAL CONTROLS	JB	JUNCTION BOX	TP	TAMPER PROOF
DF	DRINKING FOUNTAIN	LED	LIGHT EMMITING DIODE	TYP	TYPICAL
DHW	DOMESTIC HOT WATER	LWT	LEAVING WATER TEMPERATURE	UNO	UNLESS NOTED OTHERWISE
DHWR	DOMESTIC HOT WATER RETURN	M/C	MECHANICAL CONTRACTOR	VRF	VARIABLE REFRIGERANT FLOW
DIA	DIAMETER	MA	MIXED AIR	VTR	VENT THROUGH ROOF
DN	DOWN	MAU	MAKE UP AIR UNIT	WCO	WALL CLEANOUT
E/C	ELECTRICAL CONTRACTOR	MCB	MAIN CIRCUIT BREAKER	WG	WIRE GUARD
EA	EXHAUST AIR	MECH	MECHANICAL	WP	WEATHERPROOF
EDF	ELECTRIC DRINKING FOUNTAIN	MH	MANHOLE		

GENERAL NOTES

1. SOME ROOM NAMES MAY NOT BE SHOWN FOR PURPOSE OF CLARIFYING PLAN. REFER TO ARCHITECTURAL PLANS FOR REFERENCE TO R00M NAMES NOT SHOWN.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP AT THE JOB SITE, AN UP TO DATE SET OF "RECORD DRAWINGS" SHOWING ALL CHANGES FROM THE ORIGINAL PLANS. THE CONTRACTOR SHALL DELIVER THE "RECORD DRAWINGS" TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT ELECTRONICALLY.
3. THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS (NEW AND EXISTING), DIMENSIONS, AND CLEARANCES PRIOR TO THE COMMENCEMENT OF WORK AND SHALL INCLUDE ALL COSTS, EQUIPMENT, MATERIAL, ACCESSORIES, ETC. REQUIRED FOR A FULLY COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION.
4. FINAL LOCATIONS OF ALL DEVICES, LIGHT FIXTURES, EQUIPMENT ETC SHALL BE INDICATED ON THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM ARCHITECTURAL PLANS. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM MEP DRAWINGS.
5. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, APPROVALS, LICENSES, ETC. AS NEEDED FOR THE COMPLETE INSTALLATION AND PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL FEES AND DATA NEEDED FOR THIS.

FIRE SEALING NOTES

1. COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED AND APPLICABLE UL REQUIREMENTS.
2. COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE THROUGH-PENETRATION FIRESTOP SYSTEMS.
3. DO NOT COVER UP THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATIONS UNTIL EXAMINED BY INSPECTOR, IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
4. COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH ONE ANOTHER; WITH THE SUBSTRATES FORMING OPENINGS; AND WITH THE ITEMS, IF ANY, PENETRATING THROUGH-PENETRATION FIRESTOP SYSTEMS, UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
5. PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS. USE ONLY COMPONENTS SPECIFIED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOP SYSTEMS INDICATED.
6. PROVIDE SLEEVES THROUGH ALL FIRE-RATED WALLS AND FILL VOIDS SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND PIPING WITH FIRE STOP PUTTY WITH UL LISTED 3 HOUR RATING INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
7. FIRE SEAL ALL PIPING, CONDUIT, CABLE, ETC PENETRATIONS ROUTED THROUGH FIRE RATED WALLS.
8. PROVIDE FIRE RATED ENCLOSURES OR WRAPS ON LIGHT FIXTURES AND OTHER ITEMS PENETRATING FIRE RATED CEILINGS, FLOOR/CEILING/ CEILING/ROOF ASSEMBLIES TO MAINTAIN UL LISTING FOR CONSTRUCTION.

COORDINATION NOTES

1. COORDINATE REQUIREMENTS FOR INSTALLATION OF SYSTEMS AND EQUIPMENT WITH ALL OTHER TRADES.
2. THE CONTRACTOR SHALL COORDINATE THE ROUTING AND PATH OF ALL SYSTEMS, CONDUITS, PIPES, DUCTS, ETC WITH THE POSITION AND LAYOUT OF THE STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY OFFSETS, TURNS, RISES AND DROPS FOR SYSTEMS AND COMPONENTS AS NEEDED TO INSTALL THE MEP SYSTEMS TO CLEAR STRUCTURE, CEILINGS, ETC AND OTHER SYSTEMS IN POTENTIAL CONFLICT WITH ROUTING.
3. COORDINATE WORK WITH OTHER TRADES TO INSTALL SYSTEMS ABOVE CEILING HEIGHTS INDICATED ON ARCHITECTURAL PLANS.
4. CHECK SPACE REQUIREMENTS WITH OTHER TRADES AND STRUCTURE/CONSTRUCTION TO INSURE THAT ALL MATERIALS AND EQUIPMENT CAN BE INSTALLED IN THE SPACE ALLOTTED INCLUDING FINISHED SUSPENDED CEILINGS AND OTHER SPACES, CHASES, ETC WITHIN THE BUILDING. MAKE MODIFICATIONS THERETO AS REQUIRED AND APPROVED.
5. TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION.
6. WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH THOSE TRADES TO INSURE THAT ALL SUBCONTRACTORS HAVE THE INFORMATION NECESSARY SO THAT THEY MAY PROPERLY INSTALL ALL CONNECTIONS AND EQUIPMENT. IDENTIFY ALL ITEMS OF WORK THAT REQUIRE ACCESS SO THAT THE CEILING TRADE WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.
7. COORDINATE, PROJECT AND SCHEDULE WORK WITH OTHER TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE.
8. DRAWINGS SHOW THE GENERAL RUNS OF CONDUITS, PIPING AND DUCTWORK AND APPROXIMATE LOCATION OF OUTLETS. ANY SIGNIFICANT CHANGES IN LOCATION OF ITEMS NECESSARY IN ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE SUCH ALTERATIONS ARE MADE. ALL SUCH MODIFICATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
10. ADJUST LOCATION OF PIPING, DUCTWORK, ETC. TO PREVENT INTERFERENCES, BOTH ANTICIPATED AND ENCOUNTERED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH ITEM PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN ADEQUATE CLEARANCES AND HEADROOM.
11. WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY, PREPARE ADDITIONAL COORDINATION DRAWINGS AND ORGANIZE ON-SITE MEETINGS WITH ALL RELATED SUBCONTRACTORS TO COORDINATE THE WORK BETWEEN TRADES . DRAWINGS SHALL CLEARLY SHOW THE WORK AND ITS RELATION TO THE WORK OF OTHER TRADES, AND BE SUBMITTED FOR REVIEW PRIOR TO COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD.
12. COORDINATE WITH LOCAL UTILITY PROVIDERS FOR THEIR REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL NECESSARY PAYMENTS, MATERIALS, LABOR AND TESTING TO ACCOMPLISH THE WORK.

RENOVATION NOTES

1. DISCONNECT AND REMOVE ANY EQUIPMENT, PIPING OR DUCTWORK THAT WAS INSTALLED AS PART OF THE BUILDING SHELL THAT IS NOT NEEDED OR CONFLICTS WITH THIS BUILD OUT.
2. EXISTING UNDERGROUND PIPING LOCATIONS ARE ESTIMATED BASED UPON ANTICIPATED ROUTINGS. FIELD VERIFY EXACT LOCATIONS DURING CONSTRUCTION AND PROVIDE ALL NECESSARY MODIFICATIONS.
3. SAWCUT GRADE FLOOR SLABS TO INSTALL NEW PIPING, MECHANICAL SYSTEMS, ELECTRICAL FLOOR BOXES AND ALL ASSOCIATED CONDUIT, ETC. PATCH FLOOR TO MAKE LIKE NEW AFTER INSTALLATION. TAKE CARE TO LOCATE EXISTING CONDUIT, ETC AND AVOID CUTTING EXISTING CONDUITS BY NOT OVER-CUTTING SLAB DEPTH.
4. SAWCUT AND CORE DRILL OPENINGS AS REQUIRED FOR ABOVE GRADE SLAB PENETRATIONS. X-RAY SLABS TO ASCERTAIN STEEL AND EXISTING CONDUIT PENETRATIONS PRIOR TO CUTTING. VERIFY OPENINGS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING.
5. HOMERUN CIRCUITS TO 20 AMP, SINGLE POLE BREAKERS IN PANELBOARDS INDICATED. UTILIZE SPARE BREAKERS MADE AVAILABLE BY DEMOLITION, IF NO SPARE BREAKER IS AVAILABLE, PROVIDE NEW BREAKER.
6. EXISTING CIRCUITING MAY BE RE-USED WHERE POSSIBLE, AND SAME COMPLIES WITH ALL APPLICABLE SECTIONS OF THE SPECIFICATIONS.
7. CONCEAL NEW CIRCUITING IN WALLS WHERE POSSIBLE. FOR NEW DEVICES INSTALLED ON EXISTING SOLID WALLS, CONCEAL CIRCUITING IN WIREMOLD. COORDINATE FINISH AND GENERAL ROUTING OF WIREMOLD WITH ARCHITECT TO BE AS CONCEALED AND/OR ROUTED IN A NEAT AND ORGANIZED CONSISTENT MANNER.

GENERAL MECHANICAL NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. ANY POWER FOR CONTROL SYSTEMS TO BE PROVIDED BY E/C IS INDICATED ON ELECTRICAL PLANS. ANY ADDITIONAL LINE VOLTAGE OR LOW VOLTAGE POWER REQUIRED BY THE M/C OR SUBCONTRACTORS TO HAVE A FULLY FUNCTIONING SYSTEM SHALL BE PROVIDED BY THE M/C CONTRACTOR OR SUBS.
3. ALL EQUIPMENT SHALL BE ADEQUATELY AND PROPERLY SUPPORTED AND FASTENED FROM STRUCTURE.
4. ALL EQUIPMENT AND ACCESSORIES INSTALLED IN CONCEALED SPACES REQUIRING ACCESS SHALL BE PROVIDED WITH ACCESS DOORS MEETING ANY FIRE REQUIREMENTS OF THE WALL/CEILING THEY ARE INSTALLED.
5. EACH AIR HANDLING UNIT OVER 2000CFM SHALL BE PROVIDED WITH A SMOKE DETECTOR TO SHUT DOWN THE UNIT PER IMC 606 AS REQUIRED BY AHJ. COORDINATE WITH OTHER TRADES.
6. START UP AND ADJUST ALL EQUIPMENT AND VERIFY ALL MECHANICAL SYSTEMS IN OPERATE IN ACCORDANCE WITH THEIR INTENDED PURPOSES. SUBMIT BALANCE AND START UP REPORTS TO THE A/E. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

GENERAL PLUMBING NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. NO PIPING SHALL BE INSTALLED WHERE IT WILL SUBJECT TO FREEZING TEMPERATURES. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF BUILDING INSULATION, INSULATED AND THE CHASE SHALL BE VENTILATED WITH GRILLES ALLOWING INDOOR AMBIENT CONDITIONS TO CIRCULATE THROUGH THE CHASE.
3. PROVIDE CLEANOUTS IN THE FOLLOWING LOCATIONS:
   1. IN ALL HORIZONTAL DRAINS (WITHIN THE BUILDING) NOT MORE THAN 100 FEET APART.
   2. IN BUILDING SEWERS LOCATED NO MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANOUT.
   3. EACH CHANGE OF DIRECTION OF THE BUILDING DRAIN OR HORIZONTAL WASTE OR SOIL LINES GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING.
   4. AT THE BASE OF EACH WASTE OR SOIL STACK.
   5. NEAR THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER.

GENERAL ELECTRICAL NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
3. REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED OTHERWISE.
4. PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
5. CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.
6. ALL CONDUCTOR SIZES INDICATED ON DRAWINGS ARE FOR COPPER CONDUCTORS UNLESS SPECIFICALLY NOTED OTHERWISE. ALUMINUM CONDUCTORS MAY BE USED ONLY UNDER THE FOLLOWING CONDITIONS:
   - CONTRACTOR SHALL INCLUDE A DEDUCT ALTERNATE FOR USE OF SAME WITH BIDS, FOR OWNER ACCEPTANCE.
   - AL CONDUCTORS MAY ONLY BE USED ON FEEDERS 100A OR GREATER - NO EXCEPTIONS.
   - ALUMINUM CABLING SHALL BE COMPACTED ALUMINUM (STABILOY).
   - PROVIDE COMPRESSION-TYPE ONE-HOLE OR TWO-HOLE LUG TERMINATIONS.
   - PROVIDE ANTI-OXIDANT COMPOUND AT TERMINATIONS.
   - CABLE TERMINATIONS SHALL BE MARKED "AL/CU".
   - FINAL SIZES OF CONDUCTORS TO BE CONFIRMED BY ENGINEER.
   - ALUMINUM SERVICE CONDUCTORS MUST HAVE "AA-8000" SERIES LABELING ON CABLE JACKETS PER EVERGY REQUIREMENTS - NO EXCEPTIONS.

   ENGINEER RESERVES FINAL RIGHT TO ACCEPT/DENY USE OF ALUMINUM CONDUCTORS FOR PART OR ALL OF PROJECT.

DEMOLITION NOTES

1. ALL WORK SHOWN DARK AND DASHED IS TO BE DEMOLISHED. WORK SHOWN LIGHT IS EXISTING TO REMAIN.
2. REFER TO ARCHITECTURAL PLANS FOR FURTHER EXTENT OF DEMOLITION REQUIREMENTS.
3. ALL EXISTING PIPING SCHEDULED FOR DEMOLITION THAT ROUTES BELOW SLAB SHALL BE GROUND FLUSH WITH FLOOR, PLUGGED AND THE FLOOR PATCHED TO MATCH SURROUNDING FLOOR.
4. COORDINATE ALL DEMOLITION WORK WITH OWNER.
5. CONTACT UTILITY LOCATING SERVICE TO LOCATE EXACT LOCATION OF UTILITIES BELOW GRADE.
6. MAINTAIN ALL EXISTING DEVICES, EQUIPMENT, ASSOCIATED CIRCUITS ETC, SHOWN AS EXISTING TO REMAIN OR OTHERWISE UNRELATED TO THE SCOPE OF THE PROJECT IN WORKING ORDER.
7. CONTRACTOR SHALL REMOVE LAY-IN CEILINGS, LIGHT FIXTURES, ETC. AS REQUIRED FOR CONSTRUCTION WHERE NEEDED PRIOR TO DEMOLITION AND REPLACE SAME AFTER CONSTRUCTION. EXISTING CONDUITS ABOVE CEILINGS SHALL BE RELOCATED AND/OR TEMPORARILY REMOVED TO FACILITATE THE INSTALLATION OF NEW EQUIPMENT.
8. THE OWNER SHALL REMOVE ALL ITEMS THEY DESIRED TO SALVAGE PRIOR TO CONSTRUCTION BEGINNING.
9. NOTES AND DRAWINGS ARE BASED UPON A FIELD EXAMINATION OF THE SITE AND MAY NOT INDICATE ALL ITEMS. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE SITE AND THE SCOPE OF WORK FOR THE CONTRACT PRIOR TO BID. ANY EXISTING CONDITION WHICH IS APPARENT OR COULD BE REASONABLY INFERRED FROM A VISIT TO THE SITE SHALL NOT BE THE BASIS FOR A CHANGE IN THE CONTRACT AMOUNT.
10. REFER TO NEW WORK PLANS FOR ANY ITEMS THAT MAY REQUIRE RELOCATION AFTER DEMOLITION.
11. PROPERLY DISPOSE OF ALL DEMOLISHED ITEMS OFF SITE.
12. REMOVE ALL MISCELLANEOUS CONDUITS, PIPES, ETC, THOUGH NOT SPECIFICALLY SHOWN ON PLAN, THAT ARE EITHER UNUSED OR WILL BECOME UNUSED DUE DEMOLITION ACTIVITIES, IN ORDER TO PROVIDE A "CLEAN" SPACE FOR THE OWNER.
13. PROTECT ALL EXISTING SURFACES AND EQUIPMENT DURING CONSTRUCTION. EXISTING ITEMS TO REMAIN SHALL BE ADEQUATELY PROTECTED FROM DEMOLITION AND NEW CONSTRUCTION WORK, AS REQUIRED. ANY ITEMS DAMAGED OR MARRED SHALL BE ADEQUATELY CLEANED OR REPLACED TO THE OWNERS SATISFACTION TO ORIGINAL CONDITION BEFORE CONSTRUCTION.
14. PATCH ANY HOLES IN STRUCTURE CREATED BY REMOVAL OF DUCTWORK, CONDUITS, PIPES, ETC.
15. REMOVE ALL ITEMS SHOWN IN WALLS TO BE DEMOLISHED. ALL ELECTRICAL CONDUIT AND WIRING SHALL BE REMOVED BACK TO PANELBOARDS AND PROPERLY TERMINATED.
16. SAW CUT FLOOR FOR THE INSTALLATION OF NEW SANITARY PIPING. REFER TO PLUMBING PLANS SHOWING NEW WORK.
17. SAVE, CLEAN, AND RE-LAMP ALL LIGHT FIXTURES NOTED AS BEING RELOCATED. REFER TO NEW WORK PLANS AND LIGHT FIXTURE SCHEDULE FOR DESCRIPTIONS, QUANTITIES, AND LOCATIONS OF FIXTURES TO BE RE-USED.

SHEET INDEX

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TRUE NORTH
PLAN NORTH

YAEGER ARCHITECTURE

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02/17/23
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PROJECT NO:	22056
DATE:	2023-02-17
DRAWN BY:	Author
CHECKED BY:	Checker
CHECKED BY:	Designer

△	REVISED DATE	DESCRIPTION

COVER SHEET

MEP001

GENERAL MECHANICAL/ELECTRICAL SPECIFICATIONS

GENERAL MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS

1. APPLICABILITY
   - A. These general requirements apply to all divisions (21, 22, 23, 26, 27, 28). Refer to individual divisions as included for specific information regarding each trade or scope of work.

2. GENERAL REQUIREMENTS
   - A. Furnish & install all labor & materials required for complete, functioning, mechanical & plumbing systems w/ all associated equipment & apparatus as shown on plans.
   - B. Obtain & pay for all permits required for execution of this work & shall make arrangements for modifications to water, gas & sewer connections to building as required.
   - C. All materials shall be new & shall bare UL label where applicable.
   - D. Visit site & observe conditions under which work will be done. Any discrepancies shall be called to architect's attention. No subsequent allowance will be made in contract for any error or negligence on contractor's part.
   - E. Final acceptance of work shall be subject to condition that all systems, equipment, apparatus & appliances operate satisfactorily as designed & intended. Work shall include required adjustment of systems & control equipment installed under these specifications.
   - F. Warrant to owner quality of materials, equipment, workmanship & operation of equipment provided under these specifications for one year from & after completion of building & acceptance of mechanical systems by owner.
   - G. All materials installed in plenums shall be noncombustible or have flame/smoke index of no more than 25/50 in accordance w/ ASTM e 84.
   - H. Requirements under Division one & general & supplementary conditions of these specifications shall be part of this section. Contractor shall become thoroughly acquainted w/ its contents as to requirements that affect this Division of work required under this section includes material. Equipment, appliances. Transportation. Services. & labor required to complete entire system as required by drawings & specifications.
   - I. The specifications & drawings for project are complementary, & portions of work described in one, shall be provided as if described in both. In event of discrepancies, notify engineer & request clarification prior to proceeding w/ work involved.

3. EXTENT OF CONTRACT WORK
   - A. Provide MEP systems indicated on drawings, specified or reasonably implied. In addition to specific equipment called out in plans and specifications, provide every device, component, programming, interlocking and accessory necessary for proper operation and completion of totally functional MEP systems.
   - B. In case of an inconsistency between the Drawings and Specifications or within either document, the better quality or the greater quantity of work shall be provided in accordance with the Architect or Engineer's interpretation.
   - C. In no case will claims for “Extra Work” be allowed for work about which Contractor could have been informed before bids were taken.
   - D. Contractor shall become familiar with equipment provided by other contractors that require plumbing connections and controls.
   - E. Electrical work required to install and control plumbing equipment, which is not shown on plans or specified under Division 26, shall be included in Contractor's base bid proposal.
   - F. All automatic temperature control devices shall be mounted as indicated in automatic temperature control section of specifications.
   - G. The cost of larger wiring, conduit, control and protective devices resulting from installation of equipment which was not used for basis of design as outlined in specifications shall be paid for by the supplying Contractor at no cost to Owner or Architect Engineer.
   - H. Contractor shall be responsible for providing supervision to other trade Contractors to insure that required connections, interlocking and interconnection of MEP equipment is made to attain intended control sequences and system operation.
   - I. Contractor shall obtain complete MEP data on shop drawings and shall list this data on an approved form that shall be presented on request, to other trade Contractors. Data shall be complete with wiring diagrams received to date and shall contain necessary data on electrical components of plumbing equipment such as HP, voltage, amperes, watts, locked rotor current to allow other trade Contractors to order support or other equipment coordinated as required in his contract.

4. DEFINITIONS
   - A. Whenever used in these specifications or drawings, following terms shall have indicated meanings:
   - B. Furnish: term "Furnish" is used to mean "supply & deliver to project site. Ready for unloading, unpacking, assembly. Installation & similar operations.
   - C. Install: term "Install" is used to describe operations at project site including actual "unloading, unpacking. Assembly. Erection. Placing. Anchoring. Applying, working to dimension. Finishing, curing, protecting, cleaning. & similar operations."
   - D. Provide: term "Provide" means "to Furnish & Install. Complete & ready for intended use." furnished by owner or furnished by others: item will be furnished by owner or others. It is to be installed & connected under requirements of this Division, complete & ready for operation, including items incidental to work, including services necessary for proper installation & operation. Installation shall be included under guarantee required by this Division.
   - E. Engineer: where referenced in this Division, "Engineer" is engineer of record & design professional for work under this Division, & is consultant to, & an authorized representative of, architect. As defined in general &/or supplementary conditions. When used in this Division. It means increased involvement by. & obligations to, engineer, in addition to involvement by. & obligations to, "Architect".
   - F. AHJ: local code &/or inspection agency (authority) having jurisdiction over work.
   - G. The terms "Approved equal", "Equivalent". Or "Equal" are used synonymously & shall mean "accepted by or acceptable to engineer as equivalent to item or manufacturer specified".
   - H. The term "approved" shall mean labeled, listed. Or both. By nationally recognized testing laboratory (e.g. UL. ETL. CSA). & acceptable to AHJ over this project.

5. PREBID SITE VISIT
   - A. Prior to submitting bid. Visit site of proposed work & become fully informed as to conditions under which work is to be done. Failure to do so will not be considered sufficient justification to request or obtain extra compensation over & above contract price.

6. MATERIAL & WORKMANSHIP
   - A. Provide new material, equipment. & apparatus under this contract unless otherwise stated herein. Of best quality normally used for purpose in good commercial practice & free from defects. Model numbers listed in specifications or shown on drawings are not necessarily intended to designate required trim, written descriptions of trim govern model numbers.
   - B. Pipe, fittings, specialties & valves shall be manufactured in USA. Work performed under this contract shall provide neat & "workmanlike" appearance when completed to satisfaction of architect & engineer. Workmanship shall be finest possible by experienced mechanics. Installations shall comply w/ applicable codes & laws. Complete installation shall function as designed & intended w/ respect to efficiency, capacity, noise level. etc. Abnormal noise caused by rattling equipment, piping, ducts, air devices & squeaks in rotating components will not be acceptable. In general materials & equipment shall be of commercial specification grade in quality. Light duty & residential equipment is not acceptable.
   - C. Remove from premises waste material present from work, including cartons, crating, paper, stickers, &/or excavation material not used.
   - D. Clean equipment installed under this contract to present neat & clean installation at completion.
   - E. Repair or replace public & private property damaged as result of work performed under this contract to satisfaction of authorities & regulations having jurisdiction.

7. COORDINATION
   - A. Coordinate work w/ other trades so various components of systems will be installed at proper time will fit available space & will allow proper service access for maintenance. Components which are installed without regard to above shall be relocated at no additional cost to owner.
   - B. Obtain equipment submittal information for all pieces of equipment to be connected to from other trades that clearly indicates all connection requirements, locations, sizes, and similar requirements. Obtain this information in ample time to coordinate other trade submittals and equipment coordination. Where requirements differ from that on plans or differs from provisions made in the work, immediately notify the architect/engineer. Do not proceed with work that is incompatible with equipment provided.
   - C. Unless otherwise indicated, general contractor will provide chases & openings in building construction required for installation of systems specified herein. Contractor shall furnish general contractor w/ information where chases & openings are required.
   - D. Keep informed as to work of other trades engaged in construction of project & execute work in manner as to not interfere w/ or delay work of other trades. Figured dimensions shall be taken in preference to scale dimensions.
   - E. Contractor shall take his own measurements at building, as variations may occur. Contractor will be held responsible for errors that could have been avoided by proper checking & inspection.
   - F. Provide materials w/ trim that will properly fit types of ceiling, wall. Or floor finishes actually installed. Model numbers listed in specifications or shown on drawings are not intended to designate required trim.
   - G. Coordinate construction operations included in different sections of the specifications to ensure efficient and orderly installation of each part of the work. Coordinate construction operations, included in different sections, that depend on each other for proper installation, connection, and operation.
   - H. Each contractor shall coordinate its construction operations with those of other contractors and entities to ensure efficient and orderly installation of each part of the work. Each contractor shall coordinate its operations with operations, included in different sections, that depend on each other for proper installation, connection, and operation.
   - I. Schedule construction operations in sequence required to obtain the best results where installation of one part of the work depends on installation of other components, before or after its own installation.
   - J. Coordinate installation of different components with other contractors to ensure maximum accessibility for required maintenance, service, and repair.
   - K. Make adequate provisions to accommodate items scheduled for later installation.
   - L. Where availability of space is limited, coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair of all components, including mechanical and electrical.
   - M. Prepare coordination drawings if limited space availability necessitates maximum utilization of space for efficient installation of different components or if coordination is required for installation of products and materials fabricated by separate entities. Content: project-specific information, drawn accurately to scale. Do not base coordination drawings on reproductions of the contract documents or standard printed data. Include the following information, as applicable:
     - 1) Indicate functional and spatial relationships of components of architectural, structural, civil, mechanical, and electrical systems.
     - 2) Indicate required installation sequences.
     - 3) Indicate dimensions shown on the contract drawings and make specific note of dimensions that appear to be in conflict with submitted equipment and minimum clearance requirements. Provide alternate sketches to architect for resolution of such conflicts. Minor dimension changes and difficult installations will not be considered changes to the contract.
   - N. Meetings: conduct project coordination meetings at regular intervals. Project coordination meetings are in addition to specific meetings held for other purposes, such as progress meetings and preinstallation conferences.
     - 1) Attendees: each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the conference shall be familiar with project and authorized to conclude matters relating to the work. Notify architect of meeting.
     - 2) Agenda: review and correct or approve minutes of the previous coordination meeting. Review other items of significance that could affect progress.
     - 3) Combined contractor's construction schedule: review progress since the last coordination meeting. Determine whether each contractor is on time, ahead or behind schedule, in relation to construction schedule. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the contract time. Discuss impact of various contractor schedules upon other contractors and how to remedy impacts.
     - 4) Review present and future needs of each contractor present
   - O. After shop drawings have been reviewed and approved by all parties, transmit a set of submittals to each other trade (eg Plumbing, Mechanical, Electrical, Controls, etc) that will interface with installation. Each other contractor shall review the submittal for coordination and return a stamped submittal indicating they have reviewed the submittal for coordination purposes.

8. ARCHITECTURAL VERIFICATION AND RELATED DOCUMENTS
   - A. Contractor shall consult all Architectural Drawings and specifications in their entirety incorporating and certifying all millwork, furniture, and equipment rough-in including utility characteristics such as voltage, phase, amperage, pipe sizes, duct sizes, including height, location and orientation. Shop drawings incorporating these requirements should be submitted to the Architect for approval prior to installation or rough in.

9. ORDINANCES & CODES
   - A. Work performed under this contract shall. At minimum, be in conformance w/ applicable national, state & local codes having jurisdiction.
   - B. Installation work performed under this contract shall be in strict compliance w/ current applicable codes adopted by local AHJ including any amendments & standards as set forth by National Fire Protection Association (NFPA). Underwriters Laboratories (UL), Occupational Safety & Health Administration (OSHA). American Society of Mechanical Engineers (ASME), American Society of Heating, Refrigeration, & Air Conditioning Engineers (ASHRAE). American national standards institute (ANSI), American Society of Testing Materials (ASTM) & other national standards & codes where applicable.
   - C. Where contract documents exceed requirements of referenced codes. Standards, etc., contract documents shall take precedence.
   - D. Procure & pay for permits & licenses required for accomplishment of work herein described. Where required, obtain. Pay for & furnish certificates of inspection to owner. Contractor will be held responsible for violations of law.

10. STANDARDS
    - A. Drawings and specifications indicate minimum construction standard. Should any work indicated be sub standard to any ordinances, laws, codes, rules or regulations bearing on work, Contractor shall promptly notify Architect Engineer in writing before proceeding with work so that necessary changes can be made. However, if the Contractor proceeds with work knowing it to be contrary to any ordinances, laws, rules, and regulations, Contractor shall thereby have assumed full responsibility for and shall bear all costs required to correct non complying work.

11. PROTECTION OF EQUIPMENT & MATERIALS
    - A. Store & protect from damage equipment & materials delivered to job site. Cover as required to protect from dirt & damage. Plug or cap open ends of ductwork & piping systems while stored & installed during construction when not in use to prevent entrance of debris into systems. Equipment & material that has been damaged by construction activities will be rejected, & contractor is obligated to furnish new equipment & material of like kind. Keep premises broom clean from foreign material created during work performed under this contract. Piping, equipment, etc. Shall have neat & clean appearance at completion.

12. SUBSTITUTIONS
    - A. The base bid shall include only products from manufacturers specifically named in drawings & specifications. No substitution will be considered prior to receipt of bids unless written request for approval to bid has been received by engineer at least ten calendar days prior to date for receipt of bids. Request shall include name of material or equipment for substitution & complete description of proposed substitute including drawings, cuts, performance & test data & other information for evaluation. Statement setting forth changes in other materials, equipment or other work that incorporation of substitute would require shall be included.
    - B. The intent of these specifications is to allow ample opportunity for Contractor to use his ingenuity and abilities to perform the work to his and the Owner's best advantage, and to permit maximum competition in bidding on standards of materials and equipment required.
    - C. Material and equipment installed under this contract shall be first class quality, new, unused and without damage.
    - D. In general, these specifications identify required materials and equipment by naming one or more manufacturer's brand, model, catalog number and/or other identification. The first named manufacturer or product is used as the basis for design; other manufacturers named must furnish products consistent with specifications of first named product as determined by Engineer. Base bid proposal shall be based only on materials and equipment by manufacturers named, except as hereinafter provided.
    - E. Where materials or equipment are described but not named, provide required items of first quality, adequate in every respect for intended use. Such items shall be submitted to Architect Engineer for review prior to procurement.
    - F. Materials and equipment proposed for substitutions shall be equal to or superior to that specified in construction, efficiency, utility, aesthetic design, and color as determined by Architect Engineer whose decision shall be final and without further recourse. Physical size of substitute brand shall be no larger than space provided including allowances for access for installation and maintenance. Requests must be accompanied by complete descriptive and technical data including manufacturer's name, model and catalog number, photographs or cuts, physical dimensions, operating characteristics and any other information needed for comparison.
    - G. The burden of proof of merit of proposed substitute is upon proposer. Engineer's decision of approval or disapproval to bid of proposed substitution shall be final. Terms approved". "approved equal", & "equal" refer to approval by engineer as an acceptable alternate bid. No substitutions will be considered that are not bid as an alternate.
    - H. No material substitutions shall be considered for approval after to award of contract. Coordinate & verify w/ other trades whether or not substituted equipment can be installed as shown on construction drawings without modification to associated systems or architectural or engineering design. Include additional costs for architectural & engineering design fees in bid if drawing modifications are required because of substituted equipment.

13. SHOP DRAWINGS
    - A. Equipment to be furnished under this contract, items requiring coordination between contractors & sheet metal ductwork fabrication drawings. Before submitting shop drawings verify equipment submitted is mutually compatible & suitable for intended use & will fit available space & allow ample room for maintenance. Engineer's checking & subsequent approval of such shop drawings will not relieve contractor from responsibility for errors in dimensions, details, size of members, quantities, omissions of components or fittings; coordination of electrical requirements; or for coordinating items w/ actual building conditions. Proceed w/ procurement & installation of equipment only after receiving approved shop drawings relative to each item.
    - B. Submittal data shall be neatly organized, identified & indexed. Each item or model number shall be clearly marked & accessories indicated. Label catalog data w/ equipment identification acronym or number as used on drawings & include performance curves, capacities, sizes, materials, finishes, wiring diagrams & deviations from specified equipment or materials. Mark out inapplicable items. Shop drawings will be returned without review if above mentioned requirements are not met.
    - C. Requirements shall be met electronically & submitted as pdf in files less than 10mb.
    - D. Contractor's stamp, which shall certify that stamped drawings have been checked by contractor, comply w/ drawings & specifications, & have been coordinated w/ other trades.
    - E. Transmit submittals as early as required to support project schedule. Allow for two weeks a/e review time, plus duplication of this time for resubmittals, if required. Transmit submittals as soon as possible after notice to proceed & before construction starts. Engineer's submittal reviews will not relieve contractor from responsibility for errors in dimensions, details, size of members, or quantities; or for omitting components or fittings; or for not coordinating items w/ actual building conditions.
    - F. Final copies shall be furnished to owner as part of O&M documents in hard & electronic formats.

14. OPERATION & MAINTENANCE INSTRUCTIONS
    - A. Collect & compile complete brochure of equipment furnished & installed on this project. Include operational & maintenance instructions, manufacturer's catalog sheets, wiring diagrams, parts lists, approved shop drawings, test & balance reports, & descriptive literature as furnished by equipment manufacturer. Include an inside cover sheet that lists project name, date, owner, architect, consulting engineer, general contractor, sub-contractor, & an index of contents. Submit three copies of literature bound in 3-ring binders w/ index & tabs separating equipment types to architect at termination of work. Final approval of plumbing systems will be withheld until manual is received & deemed complete by architect & engineer. Provide "as-built" drawings (see Division 1 & general conditions).
    - B. These requirements may shall also be provided to the owner in a well organized pdf electronic submission & delivered on a DVD or USB thumbdrive.

15. TRAINING
    - A. Provide factory trained & authorized representative to train owner's designated personnel on operation & maintenance of equipment provided for this project. Provide training to include but not be limited to an overview of system &/or equipment as it relates to facility as whole; operation & maintenance procedures & schedules related to startup & shutdown, troubleshooting, servicing, preventive maintenance & appropriate operator intervention; & review of data included in operation & maintenance manuals. Submit certification letter to architect stating that owner's designated representative has been trained as specified herein. Letter shall include date, time, attendees & subject of training. Contractor & owner's representative shall sign certification letter indicating agreement that training has been provided. Schedule owner training w/ at least 7 days' advance notice.

16. SPARE PARTS
    - A. Furnish to owner, w/ receipt one set of spare filters of each type required for each unit. In addition to spare set of filters, install new filters prior to testing, adjusting, & balancing work & before turning system over to owner.
    - B. Furnish one complete set of belts for each fan.

17. EQUIPMENT LABELS:
    - A. Material and thickness: multilayer, multicolor, plastic labels for mechanical engraving, 1/16 inch thick, and having predrilled holes for attachment hardware. Black letters on white background.
    - B. Minimum label size: length and width vary for required label content, but not less than 2-1/2 by 3/4 inch.
    - C. Minimum letter size: 1/4" for name of units if viewing distance is less than 24 inches, 1/2" for viewing distances up to 72” & proportionately larger lettering for greater viewing distances. Include secondary lettering two-thirds to three-fourths the size of principal lettering.

18. WARRANTIES
    - A. Warrant each system & each element thereof against all defects due to faulty workmanship design or material for period of 12 months from date of substantial completion unless specific items are noted to carry longer warranty in construction documents or manufacturer's standard warranty exceeds 12 months. Remedy all defects, occurring within warranty period(s) stated in general conditions & Division 1. Warranties shall include labor & material. Make repairs or replacements without any additional costs to owner. Perform remedial work promptly, upon written notice from engineer or owner.
    - B. At time of substantial completion, deliver to owner all warranties in writing & properly executed including term limits for warranties extending beyond one year period. Each warranty instrument being addressed to owner & stating commencement date & term.

19. CUTTING & PATCHING
    - A. Perform cutting of walls, floors, ceilings, etc. As required to install work under this section. Obtain permission from architect prior to cutting. Do not cut or disturb structural members without prior approval from architect. Cut holes as small as possible. General contractor shall patch walls, floors, etc. As required by work under this section. Patching shall match original material & construction. Repair & refinish areas disturbed by work to condition of adjoining surfaces in manner satisfactory to architect.

20. EXCAVATION AND BACKFILL
    - A. Perform necessary excavation to receive work. Provide necessary sheathing, shoring, cribbing, tarpaulins, etc. For this operation, and remove it at completion of work. Perform excavation in accordance with appropriate section of these specifications, and in compliance with osha safety standards.
    - B. Excavate trenches of sufficient width to allow ample working space, and no deeper than necessary for installation work.
    - C. Conduct excavations so no walls or footings are disturbed or injured. Backfill excavations made under or adjacent to footing with selected earth or sand and tamp to compaction required by architect_engineer. Mechanically tamp backfill under concrete and pavings in six inch layers to 95% standard density, reference Division 2.
    - D. Backfill trenches and excavations to required heights with allowance made for settlement. Tamp fill material thoroughly and moistened as required for specified compaction density. Dispose of excess earth, rubble and debris as directed by architect.
    - E. When available, refer to test hole information on architectural or civil drawings or specifications for types of soil to be encountered in excavations.

21. ROUGH-IN
    - A. Coordinate rough-in w/ general construction & other trades. Conceal piping & conduit rough-in except in unfinished areas & where otherwise shown.

22. STRUCTURAL STEEL
    - A. Structural steel used for support of equipment, ductwork & piping shall be new, clean, & conform to ASTM a-36. Support mechanical components from building structure. Do not support mechanical components from ceilings, other mechanical or electrical components, & other non-structural elements.

23. ACCESS DOORS
    - A. Provide access doors in ceilings, walls, etc. Where indicated or required for access or maintenance to concealed valves & equipment installed under this section. Provide concealed hinges, screwdriver-type lock, anchor straps; manufactured by Milcor, Zurn, Titus, or equal. Obtain architect's approval of type, size. Location & color before ordering.

24. PENETRATIONS
    - A. Seal mechanical floor, exterior wall & roof penetrations watertight & weathertight. Seal around mechanical penetrations w/ 3M CP-25 fire barrier caulk (thickness as required & recommended by manufacturer) to maintain resistance rating of fire-rated assemblies. Provide prefabricated roof curbs manufactured by Custom Curb, Pate, Thycurb or approved equal. Provide roof curb w/ factory installed wood nailer; welded, 18 gauge galvanized steel shell, base plate & flashing; 1-1/2" thick, 3 pound rigid insulation; fully mitered 3-inch raised cant; cover of weather-resistant, weather-proof material & pipe collar of weather-resistant material w/ stainless steel pipe clamps. Make roof penetrations by authorized roofing contractor when required.

25. MOTORS & STARTERS
    - A. Provide motors & starting equipment where not furnished w/ equipment package. Motors shall have copper windings, class b insulation, & standard squirrel cage w/ starting torque characteristics suitable for equipment served. Motors for air handling equipment shall be selected for quiet operation. Each motor shall be checked for proper rotation after electrical connection has been completed. Provide dripproof enclosure for locations protected from weather & not in air stream of fan; & totally enclosed fan cooled enclosure for motors exposed to weather. Motors shall be manufactured by Century, GE, Westinghouse, or approved equal. Provide every motor, except fractional horsepower single phase motors w/ an approved type of "built-in" thermal overload protection, w/ motor starter. Each starter shall be provided w/ overload heaters sized to motor rating, & every three phase motor starter shall have overload heaters in each phase. Ambient compensated heaters shall be installed wherever necessary. Unless noted otherwise, motor starters shall be furnished by Division 22/23 contractor for installation & connection by Division 26 contractor. Starters shall be Allen-Bradley, Clark, Furnas, Square D, or approved equal.

26. ELECTRICAL WIRING
    - A. Line voltage wiring shall be provided by Division 26. Line voltage control & interlock wiring for mechanical systems shall also be provided by Division 26 contractor. Low voltage control wiring shall be provided by Division 22/23 contractor. Furnish wiring diagrams to Division 26 contractor as required for proper equipment hookup. Coordinate w/ Division 26 contractor actual wire sizing amps for submitted mechanical equipment to ensure proper installation

27. DISCONNECT SWITCHES
    - A. Provide heavy-duty horsepower rated safety switches rated in accordance with NEMA enclosed switch standard KS 1_1969 and l98 standard.
    - B. Each piece of electrical equipment shall be provided with a disconnecting means.
    - C. Equivalents by: GE, Eaton, Siemens, Square D.

28. REFRIGERANT & OIL
    - A. Provide full refrigerant & oil charge in refrigeration systems. Maintain for full term of warranty.

29. EQUIPMENT FURNISHED BY OTHERS
    - A. Provide necessary equipment & accessories that are not provided by equipment supplier or owner to complete installation of cooking equipment, washing equipment, etc., furnished by others, in locations as indicated on drawings &/or described in general notes to this contractor. Equipment & accessories not provided by equipment supplier may include flues, vents, intakes, associated roof jacks & caps to outdoors, dampers. In-line fans, roof fans, control interlocks, etc. As required for proper operation of complete system in accordance w/ manufacturer's instructions. Contractor shall be responsible for correct rough-in dimensions, & shall verify same w/ architect &/or equipment supplier prior to service installations.

30. SETTING, ADJUSTMENT AND EQUIPMENT SUPPORTS
    - A. Work shall include mounting, alignment and adjustment of systems and equipment. Set equipment level on adequate foundation and provide proper anchor bolts and isolation as shown, specified or required by manufacturers in installation instructions. Level, shim and grout equipment bases as recommended by manufacturer. Mount motors, align and adjust drive shafts and belts according to manufacturer's instructions.
    - B. Equipment failures resulting from improper installation or field alignment shall be repaired or replaced by Contractor at no cost to Owner.
    - C. Floor or pad mounted equipment shall not be held in place solely by its own dead weight. Include anchor fastening in all cases.
    - D. Provide floor or slab mounted equipment with 3_1/2” high concrete bases unless specified otherwise. Individual concrete pad shall be no less than 4” wider and 4” longer than equipment, and shall extend no less than 2” from each side of equipment.
    - E. Provide each piece of equipment or apparatus suspended from ceiling or mounted above floor level with suitable structural support, platform or carrier in accordance with best-recognized practice. Verify that structural members of buildings are adequate to support equipment and unless otherwise indicated on plans or specified, arrange for their inclusion and attachment to building structure. Provide hangers with vibration isolators.
    - F. Submit details of hangers, platforms and supports together with total weights of mounted equipment to Architect_Engineer for review before proceeding with fabrication or installation.

31. MISCELLANEOUS REMODELING WORK
    - A. Remove all unused equipment, ductwork, piping & associated supports. Cap ductwork & piping at mains & seal air & water tight. Provide items of HVAC systems modification required because of building remodeling, as noted on drawings or necessary for proper operation. Match existing materials & construction techniques when modifying existing systems unless specified otherwise. Coordinate additional requirements w/ general contractor & architect. Seal airtight existing ductwork required to be abandoned in place or not in use at termination of work. Cap & seal weathertight existing roof curbs & roof openings to be abandoned in place as result of equipment removal. Clean & rebalance existing ductwork, diffusers, registers, & grilles intended for reuse as required or as indicated on drawings. Clean & refurbish existing HVAC equipment intended for reuse as required for proper operation including replacement of filters, belts, motors, remote controls, & safety interlocks.

32. BUILDING OPERATION
    - A. Comply w/ schedule of operations as outlined in architectural portions of this specification. Building shall be in continuous operation. Accomplish work requiring interruption of building operation at time when building is not in operation, & only w/ written approval of building owner &/or tenant. Coordinate interruption of building operation w/ owner &/or tenant minimum of seven days in advance of work.
    - B. The following Work shall be performed at night or weekend other than holiday weekends as directed and coordinated with the Owner: All tie-in, cut-over and modifications to the existing electrical system and other existing system requiring tie-ins or modifications shall be arranged and scheduled with the Owner to be done at a time as to maintain continuity of the service and not interfere with normal building operations.

33. VIBRATION ISOLATION
    - A. Provide vibration isolation equipment & materials by single manufacturer. Amber booth, kinetics noise control, mason industries, inc., vibration eliminator co., inc., & vibration mounting & controls. General requirements: select vibration isolators by weight distribution to produce uniform deflection. Isolators shall operate in linear portion of their load versus deflection curves. Spring isolators shall have 50 percent excess capacity without becoming coil bound. Coat vibration isolators w/ factory-applied paint. Coat vibration isolators exposed to weather & corrosion w/ factory-applied protection. Install & adjust isolators in accordance w/ manufacturers instructions.

34. FIRE BARRIERS
    - A. General: for penetrations through fire-resistance-rated constructions, including both empty openings and openings containing penetrating items, provide through-penetration firestop systems that are produced and installed to resist spread of fire according to requirements indicated, resist passage of smoke and other gases, and maintain original fire-resistance rating of construction penetrated.

35. WELDING
    - A. Contractor shall be responsible for quality of welding and suitability of welding procedures. All welding shall be in accordance with American Welding Society standard B3.0 and ANSI standard b31.1.
    - B. Welded pipe joints shall be made by certified welding procedures and welders. Welding electrodes shall be type and material recommended by electrode manufacturer for materials to be welded. All pipe and fittings ends shall be beveled a minimum of 30 degrees prior to welding.
    - C. Only welders who have successfully passed welder qualifications tests in previous 12 months for type of welding required shall do welding. Each welder shall identify his work with a code marking before starting any welded pipe fabrication. Contractor shall submit three copies of a list of welders who will work on project listing welders' code, date and types of latest qualification test passed by each welder.
    - D. Welded joints shall be fusion welded in accordance with level AR3 of American Welding Society standard AWS D10.9 “Standard For Qualification Of Welding Procedures And Welders For Pipe And Tubing”. Welders qualified under national certified pipe welding bureau will be acceptable.
    - E. Bevel all piping and fittings in accordance with recognized standards by flame cutting or mechanical means. Align and position parts so that branches and fittings are set true. Make changes in direction of piping systems with factory made welding fittings. Make branch connections with welding tees or forged weldolet.

END OF GENERAL MEP REQUIREMENTS

YAEGER ARCHITECTURE

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WILLIAM E. KENT
NUMBER PE-2004015662
REGISTERED PROFESSIONAL ENGINEER
02/17/23
William E. Kent - Engineer
MO# PE-2004015662

STATE OF MISSOURI
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Summer Moon COFFEE

PROJECT NO:	22056
DATE:	2023-02-17
DRAWN BY:	Author
CHECKED BY:	Checker
CHECKED BY:	Designer

REVISED DATE	DESCRIPTION

pkmr ENGINEERS
PEARSON KENT MCKINLEY RAAF ENGINEERS, LLC
13300 W 98TH STREET LENEXA, KS 66215
913.492.2400 WWW.PKMRENG.COM
MO State Certificate of Authority #E-2002020886

TRUE NORTH PLAN NORTH

SPECIFICATIONS

MEP101

SHEET SIZE: ARCH E1 30" x 42"

MECHANICAL SPECIFICATIONS

DIVISION 210000 - FIRE SPRINKLER SYSTEM MODIFICATIONS

1. FIRE SPRINKLER GENERAL REQUIREMENTS
   A. Refer to GENERAL MECHANICAL, ELECTRICAL & PLUMBING requirements
2. SYSTEM DESCRIPTION
   A. Provide modifications to existing wet or combination wet/dry sprinkler system as required for building, or area of work shown on drawings, complete w/ alarm valves, drain valves, mains, risers, branches, sprinkler heads, test pipes, gauges, exterior electric bell & dialers as shown or required. Coordinate all wiring & conduit for a complete & functional installation.
   B. An approved automatic sprinkler contractor shall perform all work under this heading. System shall be installed in strict accordance w/ NFPA 13 Underwriters Laboratories (UL), & must be acceptable to owner's insurer, authority having jurisdiction & all applicable local, state & national codes & standards. Where contract documents exceed requirements of referenced codes, standards, etc., contract documents shall take precedence
   C. Sprinkler system shall be certified. Contractor shall retain certification until contractor turns copies of certificates & permits over to owner. Contractor shall be approved & state licensed for design & installation of fire protection systems. Work done under this section shall be performed only by a contractor whose workmen are experienced & regularly engaged in installation of fire protection systems.
   D. System shall be hydraulically designed. Design of sprinkler system shall coordinate main & branch lines w/ structure, ceilings, piping, ductwork & light fixtures. Entire building shall be sprinkled.
   E. Work shall include, but shall not necessarily be limited to following: design & installation of a complete wet-pipe fire protection sprinkler system for project space. Portions of systems subject to freezing or temperatures below 40° f shall be protected against freezing as required by NFPA 13. Contractor shall be responsible for repairs & for all costs incurred from damage caused by freezing of fire protection system.
3. SYSTEM DESIGN
   A. This contractor shall verify design criteria & rating hazards with owner's insurer prior to designing system. Waterflow & pressure test data shall be acquired before system is calculated & be dated not more than 12 months prior to submittal of sprinkler drawings.
   B. Contractor shall verify with authority having jurisdiction any minimum safety factor requirements. Regardless, demand shall not be less than 10% below supply at demand point.
   C. The contractor shall be fully responsible for hydraulic calculations, arrangements for & cost of flow tests, final system design, & layout of all components of system as required for approval by owner's insurer, authority having jurisdiction & all applicable local, state & national codes & standards.
   D. The contractor shall be fully responsible for coordinating system layout with other contractors. Changes to system design due to lack of coordination shall be paid for by contractor.
   E. Sprinkler spacing shall conform to NFPA 13. Extended coverage sprinklers shall not be used in unfinished (shell) spaces. Hydraulic area of operation shall not be reduced as allowed by NFPA 13 for areas utilizing quick response sprinklers.
4. SHOP DRAWINGS
   A. Shop drawings & hydraulic calculations shall be furnished to architect &/or engineer, for his approval. Architect will forward one set to contractor after final approval. Submitted shop drawings shall bear a stamp indicating approval by authority having jurisdiction. Provide drawings electronically in pdf format.
   B. Shop drawings shall meet requirements of NFPA 13 & shall include following:
      1) Submit working plans per NFPA 13 including layout drawings of complete overhead sprinkler system indicating relationship of sprinkler piping & sprinklers to all other overhead items including ceiling grid & tiles, light fixtures, diffusers, registers, grilles, ductwork, etc. Location of risers, piping, etc., shall be as inconspicuous as possible & shall fulfill all functional requirements. System design capabilities & water demands shall also be noted on drawings.
      2) Submit complete details & sections as required to clearly define & clarify design, including a materials list describing all proposed materials by manufacturer's name & catalog number.
      3) Hydraulic calculations.
      4) Product data for all fire sprinkler system components. Provide next to sprinkler riser main, a printed sheet, protected by glass or a transparent plastic cover, giving brief instructions regarding control, emergency procedure & other data as required by NFPA 13. For hydraulically designed systems, a placard must be permanently attached to riser indicating location, & basis of design (discharge density & system demand).
5. SYSTEM MANUAL
   A. Upon completion of installation, & as a condition of its acceptance, contractor shall compile three 8-1/2" by 11" manuals, firmly bound in heavyweight plastic or paper cover to withstand hard use. Loose-leaf binding is not acceptable. Manuals shall be delivered to architect, & shall contain following items:
      1) Identification clearly visible on or through cover, name of project & "fire sprinkler system manual".
      2) Neatly typed index at front with all emergency information clearly identified.
      3) Complete list of all system components with manufacturer's names, catalog numbers, & all data for ordering parts.
      4) One copy of record drawings, as described above.
      5) All information required to secure emergency repairs or service.
      6) Contractor's "material & test certificate(s) for sprinkler system", as described in NFPA 13.
6. SPRINKLER HEADS
   A. Sprinkler heads - as required by NFPA 13 manufactured by Viking, Reliable, Tyco and Victaulic. Semi recessed chrome plated brass where exposed. Sidewall where required. Rough brass where concealed & exposed in mechanical rooms. Concealed heads where located in sheet rock ceilings. Provided w/ necessary hardware for mounting into hard or acoustical ceilings. Reference architectural drawings for ceiling types & locations. Where no ceilings occur, provide standard brass upright or pendant as required by construction.
   B. Sprinkler heads shall be underwriters-approved, automatic spray type. Temperature rating of heads shall be 165 deg f., except furnish 212 deg f. Heads where required.
   C. Location of sprinkler heads is not shown on drawings but nevertheless shall be furnished & installed to meet requirements of specifications & NFPA. Center heads in 2x2 tile spacing in acoustic ceilings. Location of heads shall be as approved by architect. Provide head guards where required by NFPA. Furnish spare heads & wrenches mounted in metal cases where directed by architect & as required by NFPA.
7. PIPE, FITTINGS, & HANGERS
   A. Sprinkler piping 2-1/2" & larger shall be schedule 10 or schedule 40 black steel. Sprinkler piping 2" & smaller shall be schedule 40. Pipes shall have welded, threaded, or mechanically joined fittings, based on pipe material & size per NFPA 13 requirements. Piping shall be UL listed & FM approved.
   B. Acceptable alternatives to schedule 10 & schedule 40 pipe shall be manufactured to standards recognized by NFPA 13. Threaded pipe shall have a corrosion resistance rating of 1.0 or greater. Crimp-type couplings shall not be used. Threadable thinwall pipe with corrosion resistance rating less than 1.0 not permitted.
   C. Hangers shall be of type & spacing to support pipes & meet approval of UL & FM. Hangers shall be attached to structural components only. Support risers from structure below. Do not support exposed risers from clamps above floor.
   D. Conceal mains back or above construction in finished areas. Piping shall be designed to provide maximum head room in all areas. Piping shall not pierce ductwork.
   E. Pitch all dry pipe sprinkler piping to drain according to NFPA requirements, without exception & without traps. Wet pipe sprinkler systems may be pitched to drain or run level, but piping must be installed straight & true, without traps.
   F. Provide drain valves & inspector test valves as necessary to drain system & meet requirements of NFPA.
8. TESTING & ACCEPTANCE
   A. Upon completion of each phase of installation, each system shall be tested in conformance with local code requirements & as noted below. Contractor shall furnish all labor & equipment required to properly test all sprinkler equipment installed under this contract & he shall assume all costs involved in making tests, & repairing &/or replacing all damage resulting therefrom.
   B. Upon completion of systems installation, & prior to acceptance by engineer & owner, this contractor shall make general operating tests to demonstrate that all equipment & systems are in proper working order, & are functioning in conformance with intent of drawings & specifications.
   C. After completion of installation, test, retest, & make all corrections necessary to secure acceptance by fire marshal &/or any other authority having jurisdiction. Furnish all test equipment & personnel required.
   D. After completion of all installation, tests, etc., & prior to final acceptance date, contractor shall instruct building owner & his selected personnel in operation of sprinkler system & procedure to conduct quarterly main drain tests as required by NFPA 25.
9. EXECUTION
   A. All modifications & additions shall be performed without hampering proper operation of remaining system. Shop drawing submittals shall indicate by calculation total system compliance.
   B. Provide installation of water flow switches & tamper switches on bypass lines & shut off valves. Wiring by electrical contractor. Coordinate w/ fire alarm system.
   C. Submit drawings & calculations to state fire marshall, owner's insurance company & local building officials for approval.
   D. Furnish all gauges, pumps, compressors & equipment required to perform tests. Coordinate all scheduling & work with other trades so as to prevent conflicts, & to ensure orderly progress of work, with a minimum of delays. When sprinkler piping is installed without coordinating with other trades & conflicts occur, sprinkler piping shall be relocated as required at no additional cost to owner to resolve conflicts.
   E. Piping in areas having ceilings, other than underside of roof deck, shall be concealed. Piping in areas without ceilings may be exposed but kept at a minimum distance from deck. All piping shall be clean & free of rust. Install system such that all piping is rigidly secured & supported. All ductwork, lights, structural members & main runs of piping shall take precedence over sprinkler piping. Cutting of structural members for passage of sprinkler pipes or hangers will not be permitted. All horizontal piping in ceiling space shall be at an elevation above top of light fixtures & air outlets to allow for access to light fixtures & air outlets without removing horizontal piping. Route all sprinkler piping & provide all offsets, bends, & elbows around all mechanical, electrical, & structural members as required.
   F. Contractor shall coordinate with fire alarm contractor &/or electrical contractor connection of fire sprinkler alarm devices to fire alarm system or fire sprinkler monitoring panel as required.
   G. Where exposed piping passes through finish work, chrome plated (or other finish acceptable to architect) split wall plates or escutcheons shall be installed to fit snugly around piping.
   H. Piping shall be routed parallel to building lines.
   I. Seal all fire protection floor, wall & roof penetrations watertight & weathertight. Caulk around fire protection penetrations with approved fire barrier caulk as required to maintain fire resistance rating of fire-rated assemblies.

END OF DIVISION 210000

DIVISION 220000 - PLUMBING

1. PLUMBING GENERAL REQUIREMENTS
   A. Refer to GENERAL MECHANICAL, ELECTRICAL AND PLUMBING requirements
2. PIPING & INSULATION
   A. Water piping - all water piping shall be 95-5 tin-antimony joined type L copper. Insulate w/ fiberglass w/ ASJ & PVC covers. Thickness in accordance w/ ASHRAE 90.1.
   B. Waste & vent piping - CI bell & spigot below grade or hubless CI w/ neoprene gasket fittings w/ stainless steel bands above grade. Sched 40 PVC w/ solvent welds may be used where allowed by local code. PVC not allowed in plenums.
   C. Roof/storm drain piping - CI bell & spigot below grade or hubless CI w/ neoprene gasket fittings w/ stainless steel bands above grade. Sched 40 PVC w/ solvent welds may be used where allowed by local code. PVC not allowed in plenums. Insulate w/ min 1/2" fiberglass pipe wrap w/ ASJ jacket.
3. PIPING IDENTIFICATION
   A. Provide pipe markers and flow direction arrows at 10'_0" maximum spacing to identify piping in mechanical rooms and 20'_0" maximum spacing in all other areas.
   B. Pipe marker nomenclature/colors shall meet applicable ANSI standard and OSHA requirements from Seaton or equal. Submit for approval list of colors and wording prior to purchase of pipe markers.
4. VALVES
   A. Equivalent valves listed on current comparison charts of specified valve manufacturers by Milwaukee, Stockham, Powell, Red-White, Crane, Apollo, Mueller, Muesco, Watts, Hays, Rockwell-Nordstrom.
   B. Ball valves - 2" & under - bronze full port w/ teflon seats, bronze ball & insulated handle.
   C. Balancing valves - Armstrong model CBV I or CBV II, 125 psi-wp at 250 degrees f., meter connections w/ built-in check valves screwed or flanged ends. Provide polyurethane insulation cover.
   D. Check valves - 2" & smaller screwed or solder bronze check valve, 200 psi-wog/125 psi-wsp, teflon or bronze disc & seat ring. 2-1/2" & larger flanged, ASTM 126 iron body, bronze trimmed, 200psi-wog/125 psi-wsp.
   E. Installation
      1) Install necessary valves within piping systems to provide required flow control, to allow isolation for inspection, maintenance and repair of each piece of equipment or fixture, and on each main and branch service loop.
      2) Each valve shall be installed so that it is easily accessible for operation, visual inspection, and maintenance and wherever possible, gate, check and ball valves shall be installed on a horizontal run with the handle upright and within 15 degrees of vertical. Butterfly valves shall be installed with the stem in the horizontal position and the handle at 90 degrees from vertical.
      3) Valves installed in piping systems shall be compatible with system maximum test pressure, pipe materials, pipe joining method, and fluid or gas conveyed in system.
5. FIXTURES
   A. See schedules for further requirements and specific fixtures.
   B. Fixtures: American Standard, Kohler, Crane, Zurn, Toto.
   C. Stainless steel fixtures: Elkay, Just, Moen Commercial
   D. Fittings & supports: Josam, Smith, Wade, Zurn, Or Jonespec.
   E. Seats: Church, Olsonite, Bemis Or Beneke.
   F. Drinking fountains: Halsey Taylor, Elkay, Oasis, Or Haws.
   G. Trim by Moen, Delta, Eljer, Kohler, American St&Ard, Crane, Sloan.
   H. Flushvalves: Sloan, Zurn, Toto
   I. Drains by Wade, Zurn, Woodford, Smith, Josam.
   J. Roof drains - cast iron roof drain w/ flange, CI mushroom dome. 2" dam for overflow drains
   K. Wall hydrants Josam series 71000 w/ connections for ¾" pipe & hose. Non-freezing w/ key, vacuum breaker, locking cover. Equivalent by J.R. Smith, Wade, Woodford or Zurn.
   L. Downspout nozzels - Wade series 3940 cast bronze downspout nozzles w/ threaded outlet & flange to secure nozzle to wall.
6. PLUMBING EQUIPMENT
   A. See schedules for further requirements and specific equipment.
   B. Tank Water heaters - State, Rheem, National, A.O. Smith. Porcelainized glasslined tank. Cold water inlet drop tube. Magnesium anode rods. UL seal, 160 psi, factory temperature & pressure relief valve. NSF. construction. 3 yr warranty
   C. Backflow preventers provide where shown on plans or as required by Code/AHJ the following types of backflow preventers. Provide isolation valve ahead of backflow preventers. Equivalent backflow prevents by Watts, Febco, Lawler.
      1) Reduced pressure zone principle (1/4"-1/2"): watts series 009 reduced pressure backflow preventer complete with strainers and valves.
      2) Reduced pressure zone principle (3/4"-10"): watts series 909 reduced pressure backflow preventer complete with strainers and valves. Provide isolation valve ahead of backflow preventers. Provide with air gap fitting and pipe to floor drain.
      3) Double check valve (1/2"-2"): watts series 007 double check valve assembly complete with ball type test cocks, full port ball valve shut offs and strainer.
      4) Pressure vacuum breakers (3/8"-1/2"): watts series 008qt pressure vacuum breaker for anti-spill applications, with integral ball valve shut offs.
      5) Atmospheric vacuum breaker (1/4"-3"): watts series 288a atmospheric vacuum breaker in plain brass finish.
      6) Hose bibb vacuum breakers vacuum breakers for hose end connections shall be Watts series 8 non-removable type.
7. PLUMBING EXECUTION
   A. Provide unions or flanged joints in each pipe line preceding connections to equipment to allow removal for repair or replacement. Provide all screwed & control valves w/ unions adjacent to each connection. Provide screwed end valves w/ union adjacent to valve unless valve can be otherwise easily removed from line.
   B. All piping shall be properly supported with hangers and supports specifically intended for that purpose. Provide clevis hangers, unistrut brackets and pipe clamps and similar systems. Protect integrity of insulation and provide rigid insulation inserts or pipe saddles as necessary.
   C. After piping is in place test lines to insure no leaks.
   D. All piping & equipment shall be supported properly from structure.
   E. Escutcheons - provide nickel-brass or chrome plated on all exposed pipes when passing thru wall or ceiling of finished rooms.
   F. Verify floor materials used from architectural plans & provide proper cleanout tops, where they occur in carpet, quarry tile, vinyl tile or ceramic tile.
   G. Provide water hammer arrestors for all plumbing banks w/ fixtures utilizing flush valves in any capacity. Locate arrester between last two fixtures served on branch line.

END OF DIVISION 220000

DIVISION 230000 - MECHANICAL

1. MECHANICAL GENERAL REQUIREMENTS
   A. Refer to GENERAL MECHANICAL, ELECTRICAL & PLUMBING requirements
2. SHEET METAL WORK
   A. HVAC ductwork shall be galv sheet metal of gauges & joint types specified in SMACNA manual. Provide turning vanes in elbows.
   B. Coordinate routing of ductwork w/ other contractors such that piping, electrical conduit, & associated supports are not routed through ductwork. Construct supply ducts to meet SMACNA positive pressure of 3" WG. Construct return, outdoor & exhaust ductwork upstream of fans to meet SMACNA negative pressure of 1" WG. construct exhaust ductwork downstream of fans to meet SMACNA positive pressure of 1" WG.
   C. Seal ductwork w/ heavy liquid sealant, Hardcast Irongrip 601, Design Polymer DP 1010, United McGill duct sealer or approved equal, applied according to sealant manufacturer's instructions.
   D. Ducts shall be connected to fans, fan casings & fan plenums by means of flexible connectors. Flexible connectors shall be neoprene coated glass cloth canvas connections, Duro-Dyne, Elgen, Ventfabric or equal. Flexible connectors shall have flame spread of 25 or less & smoke developed rating not higher than 50. Make airtight joints & install w/ minimum 1-1/2" slack.
   E. All ductwork must be supported properly from structure.
3. DUCTWORK SPECIALTIES
   A. Flexible ducts - Thermaflex or equal sound rated type G-KM insulated. (duct w/o published acoustical attenuation ratings not acceptable). Take off fitting shall be ¼-4ff style w/ locking damper. Maximum length of flexible ductwork shall be 5'-0".
   B. Diffusers & grilles - see schedule. Equivalent by Price, Tuttle & Bailey, Titus, Metal-Aire, Krueger. Coordinate color, mounting w/ duct, ceilings, architect. Select air devices to limit room noise level to no higher than NC-30 unless otherwise shown. Provide devices w/ soft plastic gasket to make an airtight seal against mounting surface. Coordinate final location, frame, & mounting type of air devices w/ architectural reflected ceiling plans. Submit complete shop drawings including information on noise level, pressure drop, throw, cfm for each air device, styles, borders, etc. Clearly marked w/ specified equipment number. Provide ceiling supply air diffusers & return air grilles of lay-in or surface mounted type as required to be compatible w/ ceiling construction. Provide ceiling diffusers & grilles w/ white enamel finish unless noted otherwise. Provide slot plenums by diffuser manufacturer. Plenums shall be internally insulated by manufacturer.
   C. Provide balancing dampers, manufactured by Ruskin, Greenheck, Nailor Industries, Cesco, Louvers & Dampers, Pottorff or approved equal, where 'shown on drawings & wherever necessary for complete control of air flow. Splitter dampers shall be controlled by locking quadrants; provide young regulator or ventlok end bearings for damper rod. Rectangular volume dampers shall be opposed blade interlocking type. Round volume dampers shall be butterfly type consisting of circular blade mounted to shaft.
   D. Fire Dampers - Static & dynamic; UL 555. Closing rating up to 4" WG static pressure class & min. 4000-fpm velocity. Rating of 1-1/2 & 3 hours as req'd. Curtain type with blades outside airstream except when located behind grille where blades may be inside airstream. Provide with mounting sheet metal sleeve.
   E. Fire/Smoke & Smoke Dampers - Multiple-blade type; galvanized steel frame & construction. UL 555S. Roll-formed blades, horizontal, interlocking, 0.034-inch-thick, galvanized sheet steel. Leakage Class I. Rated pressure & velocity to exceed design airflow conditions. Provide with mounting sheet metal mounting sleeve to suit installation location. Damper Motors: two-position action. Electrical Connection: 115 V, single phase, 60 Hz. Coordinate voltage with Fire alarm contractor prior to ordering. Where building is not equipped with a fire alarm system, provide a stand alone 120v smoke detector & remote LED indicator light mounted in ceiling below duct detector. Mount detector within 5' of damper & provide all necessary wiring & interconnections to damper & detector & relays/power supplies. Power open, locked & reset, spring closed.
   F. Damper leakage for outside air dampers shall not exceed 6.5 cfm/square foot in full closed position at 4" wg pressure differential across damper. Reference manufacturer & model number for outside air dampers is Ruskin model CD-50.
4. DUCT INSULATION WORK
   A. Duct insulation & wraps shall meet flame/smoke rating of 25/50 per ASTM E 84.
   B. Line all low pressure supply & return air ductwork w/ 1/2" liner. Line all medium pressure supply w/ 1" liner.
   C. Line all transfer boots w/ ½" liner.
   D. Do no wrap exposed spiral ducts. Provide pre-manufactured 1/2" or 1" round liner for all exposed round ducts. Contractor has the option to use double wall perforated lined round spiral ducts for exposed ducts. Wrap all concealed round supply HVAC ductwork w/ Certainteed 1-1/2" thick insulation w/ vapor barrier in concealed locations or in unfinished shell spaces.
   E. Wrap all outside air HVAC ductwork w/ Certainteed 1-1/2" thick insulation w/ vapor barrier in concealed locations. Exposed installations shall use 1-1/2" thick rigid board insulation or lined with 1" liner.
5. EXHAUST FANS
   A. Equivalent by Cook, Penn, Acme, Greenheck, Jennaire, Captive Air.
   B. Bearings shall be designed for 200,000 hours operation. Variable pitch motor sheaves shall be standard.
   C. Fans shall be furnished with acceptable electrical disconnect & birdscreen. Provide single phase motor equipped fans with motor rated start relay. Provide multiphase motor equipped fans with magnetic motor starter. Provide local disconnect means for all fans. Coordinate location of starter & disconnects with other trades.
   D. Ceiling & Cabinet Exhaust Fans - Available Manufacturers: Cook, Penn, Acme, Greenheck, Jennaire, Panasonic. Shall bear the AMCA Certified Ratings Seal for sound and air performance. Provide speed controls to be furnished to E/C for mounting at fan. Provide wall/roof jacks as indicated on plans.
   E. Centrifugal Roof Fan - Fan covers shall be aluminum specifically designed to withstand high wind loads. Wheels 12" in diameter & larger shall have air foil or medium foil blades. The motor & drive compartment shall be positively externally ventilated. Drive components shall be isolated from the structure. Horsepower shall not exceed the values shown & oversize motors will not be acceptable. Furnished with acceptable electrical disconnect & birdscreen. Single phase motors shall have integral overload protection. V-belt drives shall be adjustable & provided with automatic tensioner. Direct drive fans shall be supplied with speed controls & located at the fan. This speed control shall be furnished to electrical contractor for mounting. Provide minimum 14" tall (min 8" above roof insulation) roof curb designed to mate with the unit & provide support & a watertight installation. Provide sloped curb as required for level unit installation. Provide electric motorized backdraft dampers to open when fan motor is started. When motor voltage differs from damper motor voltage, provide relay & control transformer with fan o provide proper voltage for damper operation.
6. MECHANICAL EXECUTION
   A. Coordinate w/ e/c to provide all wiring between equipment, dampers, thermostats & all other required controls & devices. M/C is responsible for all control & interlock wiring unless specifically shown on electrical drawings. All electrical work shall comply w/ electrical specifications.
   B. All piping shall be properly supported with hangers & supports specifically intended for that purpose. Provide clevis hangers, unistrut brackets & pipe clamps & similar systems. Protect integrity of insulation & provide rigid insulation inserts or pipe saddles as necessary.
   C. All exterior control wiring shall be in conduit.
   D. Provide any required interfaces to fire alarm or similar systems.
   E. Provide ground-mounted units on 4", reinforced concrete base, 6" larger than unit on each side.
   F. Roof-mounted units on equipment supports or curbs, sloped as req'd. Anchor units to supports. Coordinate all requirements to maintain roof warranties.
   G. Provide factory-authorized service start up on equipment. Train owner's maintenance personnel on startup, shutdown, troubleshooting, servicing, preventive maintenance.
   H. Provide clean filters at time of project turnover.
7. FINAL TESTING & ADJUSTMENTS
   A. Final system testing. Balancing & adjustments shall be performed by contractor certified by NEBB, AABC or other approved agency. Perform test readings on fans, units, coils, etc. & adjust equipment to deliver specified amounts of air or water. Prepare testing & balancing report log showing air supply quantities, air entering & leaving temperatures & pressures, fan & unit test readings, motor voltage & amp draws. etc., & submit PDF of final compilation of data to architect for evaluation & approval before final inspection of project. Balance air systems to within plus or minus 10 percent for terminal devices & branch lines & plus or minus 5 percent for main ducts & air handling equipment of amount of air shown on drawings. Further adjustments shall be made to obtain uniform temperature in spaces. Adjust equipment to operate as intended by specification. Align bearings & replace bearings that have dirt or foreign material in them w/ new bearings without additional cost to owner. Balance contractor shall include in report any improperly installed or missing balancing devices that would negatively impact system operation. Adjust thermostats & control devices to operate as intended. Adjust burners, pumps, fans, etc. For proper & efficient operation. Certify to architect that adjustments have been made & that system is operating satisfactorily. Further adjustments shall be made to obtain uniform temperature in spaces. Calibrate, set, & adjust automatic temperature controls. Check proper sequencing of interlock systems, & operation of safety controls. Verify clean filters are installed.
1. WALL & CEILING HEATERS
   A. Nickel-chromium heating wire, free from expansion noise & hum, mounted in ceramic inserts in a galvanized-steel housing; with fuses in terminal box for overcurrent protection & limit controls for high-temperature protection. Terminate elements in stainless-steel machine-staked terminals secured with stainless-steel hardware. Manufacturers: Berko, Chromalox, Indeeco, Markel, Marley, QMark.
8. STARTUP SERVICE
   A. Engage a factory-authorized service representative to perform startup service for all equipment & systems.
   B. Complete installation & startup checks according to manufacturer's written instructions. Maintain written records of all startup activities & also do the following:
      1) Inspect for visible damage to any part, casing or component.
      2) Verify that labels are clearly visible.
      3) Verify service clearances are provided.
      4) Verify that controls are connected & operable.
      5) Verify that filters are installed.
      6) Clean all interior and exterior components of construction debris.
      7) Release and adjust vibration isolators.
      8) Inspect all rotating components for direction and correct.
      9) Start unit according to manufacturer's written instructions.
      10) Inspect & record performance of interlocks & protective devices; verify sequences.
      11) Calibrate thermostats, sensors and similar equipment.
      12) Inspect controls for correct sequencing of heating, mixing dampers, refrigeration, & normal & emergency shutdown.
      13) After startup & performance testing, change filters, vacuum heat exchanger & cooling & outside coils, lubricate bearings, adjust belt tension, & inspect operation of power vents.
      14) Provide one spare set of clean filters & deliver to owner.
   C. Adjusting
      1) Adjust initial temperature & humidity set points.
      2) Set field-adjustable switches & circuit-breaker trip ranges as indicated.
      3) Occupancy adjustments: when requested within 12 months of date of substantial completion, provide on-site assistance in adjusting system to suit actual occupied conditions. Provide up to two visits to site outside normal occupancy hours for this purpose, without additional cost.
   D. Demonstration
      1) Engage a factory-authorized service representative to train owner's maintenance personnel to adjust, operate, & maintain all HVAC equipment & systems.

END OF DIVISION 230000

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/15/2023

YAEGER ARCHITECTURE

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William E. Kent - Engineer
MO# PE-2004015662

STATE OF MISSOURI — PROFESSIONAL ENGINEER — NUMBER PE-2014007277 — 02/17/23
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Summer Moon COFFEE

PROJECT NO:	22056
DATE:	2023-02-17
DRAWN BY:	Author
CHECKED BY:	Checker
CHECKED BY:	Designer

△	REVISED DATE	DESCRIPTION

SPECIFICATIONS

MEP102

pkmr ENGINEERS
PEARSON KENT MCKINLEY RAAF ENGINEERS, LLC
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913.492.2400 WWW.PKMRENG.COM
MO State Certificate of Authority #E-2002020886
22.035

TRUE NORTH

PLAN NORTH

FILE PATH: C:\Users\matt.perry\Documents\22.035 mep central_23_matt.perry1ZWGX.rvt
PLOT DATE: 2/17/2023 7:46:19 AM

SHEET SIZE: ARCH E1 30" x 42"

ELECTRICAL SPECIFICATIONS

SECTION 26000 - ELECTRICAL

1. GENERAL ELECTRICAL REQUIREMENTS
   A. Refer to GENERAL MECHANICAL, ELECTRICAL & PLUMBING requirements.
   B. Wiring of Mechanical Equipment
      1) Provide all raceways & power wiring for all division 23 equipment requiring electrical connections, including, but not limited to, pumps, water heaters, & HVAC equipment, & all line voltage control & interlock wiring not provided under division 23. Connect per manufacturers' wiring diagrams. Coordinate with division 23 for disconnects furnished w/ equipment, & provide all disconnect switches as required. After installing wiring, verify that each motor load has correct phase rotation.
      2) Verify actual "maximum overcurrent protection" (MOCP) device ratings & "minimum circuit ampacity" (MCA) conductor sizing for mechanical equipment from equipment nameplate. Base electrical installations on actual required amperages, which may vary somewhat from conductor & equipment sizes shown on drawings; however, in no case, reduce size of conductors indicated on drawings without authorization from engineer. Provide properly sized electrical wiring & equipment without extra cost to owner. Notify engineer of all changes required in electrical installation due to equipment variances so that effects on feeders, branch circuits, panelboards, fuses & circuit breakers can be checked prior to purchasing & installation. Be responsible for coordinating w/ division 23 to verify actual ampacities & correct sizes of all conductors & overcurrent protective devices for all equipment, & correct overload heaters for all motors, when starters are provided under division 26.
   C. Wiring of Thermostats. Time, & Temperature Controls
      1) Provide all raceways, power wiring, & line-voltage control and interlock wiring not provided under division 23, for all thermostats, temperature control devices, & controls, including, but not limited to, night-stats, water heater interlocks, time switches & override timers. See mechanical drawings for locations & temperature control diagrams. Low-voltage conductors for thermostats & temperature control system may be run exposed above finished accessible ceilings, if approved & listed for this purpose, but shall be installed in conduit within walls & where exposed in work areas.
2. CONDUIT & CONDUCTORS
   A. Follow circuiting shown on plans. Use no conduit smaller than 3/4" & no conductors smaller than #12 ga. Unless noted otherwise.
   B. Conductors #10 and smaller shall be solid.
   C. If no conductor size is indicated on drawings for branch circuit, provide conductors & conduit sized per NFPA 70 & based on indicated branch circuit overcurrent protective device (OCPD) rating & number of poles.
   D. Wire shall be in non-flexible metallic conduit (EMT, IMC or RMC) for:
      1) All circuits & feeders greater than 30A.
      2) Kitchen circuits.
      3) Home runs.
   E. MC cable acceptable for branch convenience circuits & lighting circuits. Do not daisy chain light fixtures. Provide cable whips of sufficient lengths to allow for relocating each light fixture within 5-foot radius of its installed location, but not exceeding 6 feet in unsupported lengths.
      1) Do not use MC cable for following: homeruns to panelboards, where exposed to view or damage, hazardous locations, in concrete, block walls or wet locations, & when disallowed by local AHJ or landlord.
      2) Provide health care rated MC for patient care areas (as defined by the NEC) when not in conduit.
   F. Lighting & receptacle circuit conductors shall be copper THHN-THWN-2 600 volt, 75 deg c, color coded as described under applicable codes. No romex, plastic flex tubing etc permitted. Light fixture wire insulation shall have temp rating not less than individual fixture manufacturers recommended rating
   G. Circuits w/ no. 8 or larger conductors, motor circuits, power & feeder circuits & building service feeders shall be copper THHN-THWN-2 600 volt, 75 deg c.
   H. All materials used to terminate, splice or tap conductors: designed for, properly sized for, & UL listed for specific application & conductors involved, & installed in strict accordance w/ manufacturer's recommendations, using the manufacturer's recommended tools.
   I. Where wiring is indicated as installed, but connection is indicated "future" or "by other division, trades, or contracts", leave minimum 3-foot "pigtail" at box, tape ends of conductors, & cover box.
   J. Number of conductors in specific raceway "home run" is indicated w/ cross lines (tick marks) on each "circuit run" on drawings. In general, direction of branch circuit "home run" routing is indicated on drawings, complete w/ circuit numbers & panelboard designation. Continue all such "home run" wiring to designated panelboard, as though "circuit runs" were indicated in their entirety.
   K. Wiring shall have insulation of proper color to match NEC color code. In larger sizes, where properly colored insulation is not available, use vinyl plastic electrical tape of appropriate color around each conductor at all termination points, junction & pull boxes.
3. GROUNDING
   A. Supplement grounded neutral of secondary distribution system w/ equipment grounding system, installed so that metallic structures, enclosures, raceways, junction boxes, outlet boxes, cabinets, machine frames, portable equipment & other conductive items operate continuously at ground potential & provide low impedance path for ground fault currents.
   B. System shall comply w/ national electrical code, drawings & as specified.
   C. Provide equipment ground bus in base of low voltage, switchgear brazed or otherwise adequately connected by an approved method to ground rods.
   D. Provide in conduit green insulated copper ground conductor to main metallic water service entrance & connect by means of adequate ground clamps.
   E. Equipment grounding conductors for branch circuit home runs shown on drawings shall indicate an individual & separate ground conductor for that branch circuit which shall be terminated at branch circuit panelboard, switchboard, or other distribution equipment.
   F. Provide low voltage distribution system w/ separate green insulated equipment grounding conductor for each single or three-phase feeder. Single phase 120 volt branch circuits for lighting & power shall consist of phase & neutral conductors & green ground conductor installed in common conduit which shall serve as grounding conductor.
   G. Grounding conductors shall be as shown on plans or if not specifically shown shall be no smaller than that required by NEC.
4. RACEWAY INSTALLATION
   A. Install all conductors & cable in raceways continuous without taps or splices. Splice or tap only in approved boxes & enclosures w/ approved solderless connectors, or crimp connectors & terminal blocks for control wiring, & keep to minimum required. Insulate all splices, taps, & joints as required by codes.
   B. Install all circular raceways concealed above suspended ceilings or concealed in walls or floors wherever possible except where otherwise indicated.
      1) All conduit, junction boxes, etc. Above ceilings shall be supported from structure. Pipe sleeves, hangers & supports shall be furnished & set & contractor shall be responsible for proper & permanent locations.
      2) Support all conductors & cables in vertical installations, as required by NFPA 70, by installing cable supports or plug-type conduit riser supports, or wire-mesh safety grips.
   C. Conduit installed below grade shall be Schd. 80 PVC heavy wall plastic conduit meeting NEMA standards & UL listed for underground & exposed use. Provide GRS radius bends & risers as conduits rise above grade or above floor slab.
   D. Provide GRS for all conduits run exposed to weather or exposed to other hazardous conditions. Provide any GRS installed below grade w/ corrosion resistant bonded-plastic or approved mastic coating. This shall include 90-degree elbow below grade & entire vertical transition to above grade.
   E. Provide interlocking spacers for multiple runs of UG conduits in same trench.
   F. All other raceway may be EMT where approved by local code. Use compression type fittings for EMT, w/ all fittings UL listed for environment in which they are used.
   G. Use FMC for final connection to each motor & transformer, & to any device that would otherwise transmit motion, vibration, or noise. Use LFMC where exposed to liquids, vapors or sunlight.
      1) Provide all FMC & LFMC w/ an insulated bonding conductor.
   H. Install raceways parallel & perpendicular to building lines.
   I. Install raceways to requirements of structure & to requirements of all other work on project. Install raceway to clear all openings, depressions, pipes, ducts, reinforcing steel, & other immovable obstacles. Install raceways set in forms for concrete structure in such manner that installation will not affect strength of structure.
   J. Install raceways continuous between connections to outlets, boxes & cabinets w/ minimum possible number of bends & not more than equivalent of four 90-degree bends between connections. Use manufactured elbows for all 45- & 90-degree bends, unless approved by engineer in advance. Make other bends smooth & even & without flattening raceway or flaking galvanizing or enamel. Radii of bends shall be as long as possible & never shorter than corresponding trade elbow. Use long radius elbows where necessary, indicated, or both.
   K. Securely fasten raceways in place w/ approved straps, hangers & steel supports as required. Attach raceway supports to building structure. Hang single raceways for feeders w/ malleable split ring hangers w/ rod & turnbuckle suspension from inserts spaced not over 10 feet apart in construction above.
   L. Clamp groups of horizontal feeder raceways to steel channels that are suspended from inserts spaced not over 10 feet apart in construction above. Securely clamp vertical feeder raceways to structural steel members attached to structure. Install cable clamps for support of vertical feeders where required. Add raceway supports within 12 inches of all bends, on both sides of bends. Do not support raceways from suspended ceiling components.
   M. Ream raceway ends, thoroughly clean raceways before installation, & keep clean after installation. Plug or cover openings & boxes as required to keep raceways clean during construction & fish all raceways clear of obstructions before pulling conductors wires. Provide raceways of ample size for pulling of wire & not smaller than code requirements & not less than 3/4", unless indicated otherwise on drawings.
   N. Protect all raceway installations against damage during construction. Repair all raceways damaged or moved out of line after roughing-in to meet engineer's approval without additional cost to owner.
   O. Align & install true & plumb all raceway terminations at panelboards, switchboards, motor control equipment & junction boxes.
   P. Install approved expansion/deflection fittings where raceways pass through (if embedded) or across (if exposed) expansion joints.
   Q. Install pull wire in each empty raceway that is left for installation of conductors or cables under other divisions or contracts. Use polypropylene or monofilament plastic line. Leave min. 24" slack at each end.
   R. Make all joints & connections in manner that will ensure mechanical strength & electrical continuity.
   S. Effectively seal raceways, by installing conduit fitting at boundary of two spaces, & filling it w/ an approved pliable material, after conductors or cables have been installed & tested, whenever raceways pass from non-cooled to cooled spaces or transition from outside facility or enclosure to inside, whether buried or exposed.
5. BUSHINGS & LOCKNUTS
   A. Rigidly terminate conduits entering sheet metal enclosures to enclosure w/ bushing & locknut on inside & locknut or an approved hub on outside. Conduit shall enter enclosure squarely.
   B. Provide bushings & locknuts made of galvanized malleable iron w/ sharp, clean-cut threads. Where EMT enters box, provide approved EMT compression connectors.
   C. Use insulated, grounding, or combination, bushings wherever connection is subject to vibration or moisture when required by NFPA 70, or both.
6. JUNCTION & OUTLET BOXES
   A. All boxes including light fixture, switch, receptacle, & similar outlet boxes: National Electrical, Appleton, Steel City, Raco, or approved equal, galvanized steel knockout boxes, suitable in design to purpose they serve & space they occupy. Size as required for specific function or as required by NFPA 70, whichever is larger.
      1) Lighting fixture boxes in ceilings shall not be less than 4" octagonal knockout type.
   B. Set all outlet boxes in walls, columns, floors, or ceilings so they are flush w/ finished surface, accurately set, & rigidly secured in position. Provide plaster rings, extension rings &/or masonry rings as req'd for flush mounting. Provide approved cast outlet boxes, w/ hubs & weatherproof covers, in all areas subject to damp, wet, or harsh conditions.
   C. Coordinate locations of outlet boxes. Outlets are only approx located on small scale drawings. Use great care in actual location by consulting various large scale detailed drawings used by other division trades, & by securing definite locations from architect.
   D. All outlets, shall be mounted w/ bottom at 18" AFF & switches w/ bottom at 44" AFF floor unless noted otherwise on plans. Refer to arch for other required elevations & cabinetry coordination.
7. ELECTRICAL IDENTIFICATION
   A. Manufactured labels for each Panelboard & Transformer, Typewritten panel schedules mounted in panels. Where electrical equipment is installed as service entrance equipment, contractor shall furnish & install nameplate listing the following: Equip Short-Circuit Current Rating in Amps (RMS SYM), as indicated on the drawings, Whether or not equipment is fully or series-rated, Available Fault Current in Amps. Contractor shall perform available fault current calculation to obtain available fault at Service Equipment, Date fault current calculations were performed.
   B. Printed tape style label for each receptacle indicating Panel & Ckt #.
   C. Manufactured labels for all disconnect switches indicating equipment served.
   D. Branch circuits - identify each circuit w/ wire markers when enclosure label & wire colors do not provide enough information to identify each circuit without tracing. Feeders & branch circuit home runs w/ wire marker w/ Panel & Ckt #. Box covers above lay-in ceilings neatly marked w/ indelible marker.
   E. Fire alarm - nameplate on each fire alarm terminal cabinet. Label all wiring.
8. DIGITAL LIGHTING CONTROLS
   A. Provide DLM systems consisting of lighting control panels, room controllers, motion sensors, daylight sensors, & other other controls as necessary to achieve lighting switching & dimming control indicated on the drawings.
   B. Provide all interconnecting wiring, controls, programming & owner training for the system(s).
   C. Provide systems by: Cooper, Hubbell, Leviton, Phillips, Sensor Switch, Watt Stopper, Lutron, nLight.
   D. Execution:
      1) Calibrate all sensor time delays & sensitivity for proper detection of occupants & energy savings. Adjust time delays.
      2) Provide documentation of room by room system configuration including: sensar parameters, time delays, sensitivities, & daylighting setpoints, sequence of operation, load parameters.
      3) Post start-up tuning - 30 days after occupancy contractor shall adjust sensors to meet the owner's requirements. Provide a detailed report to the architect / owner of post start-up activity.
9. PANELBOARDS
   A. Branch circuit 208/240v panels shall be capacity shown w/ tin plated copper bussing & braced for minimum of 10,000a aic or as otherwise noted or required (series rated acceptable). Bolt on circuit breakers. 480v panels same except 14,000a aic min. or as otherwise noted. Minimum 20" wide w/ galv steel enclosure w/ hinged door & keyed lock. Coord trim w/ mounting location. Typewritten card directory.
   B. Distribution panels shall be capacity shown & shall be Square D I-Line w/ tin plated copper bussing. 65kaic min or as otherwise noted/req'd. Bolt on circuit breakers (series rated acceptable). Galv steel enclosure. CB's labeled w/ plastic printed labels to load served.
   C. Equivalent by Square D, Siemens, Cutler Hammer, Or GE.
10. CIRCUIT BREAKERS IN EXISTING PANELBOARDS
   A. Provide new circuit breakers, for installation in existing panelboards, of same manufacturer, type & short circuit current interrupting ratings as existing panelboard circuit breakers.
11. WIRING DEVICES
   A. Color of devices as directed by architect.
   B. Convenience outlets:
      1) Spec grade 20 amp duplex w/ ground & SS wall plates. Other outlets shall be verified w/ equipment suppliers for proper NEMA configurations. Provide GFCI rated devices where indicated & as req'd per code.
      2) Equivalent devices by Cooper/Eaton, Hubbell, Leviton, Pass & Seymour/Legrand
   C. Switches:
      1) Light switches - spec grade 20 amp toggle switches w/ SS wall plates.
      2) Wall motion switches - spec grade, PIR, override.
      3) Ceiling motion switches - spec grade, dual technology, model as req'd by room configuration, all necessary power packs & relays.
      4) Wall motion switches (bathroom) - dual relay, spec grade, PIR, 2nd relay for operation of exhaust fan delay.
      5) Dimmer Switches: Modular, full-waive, solid-state units with integral, quiet on-off switches, with audible frequency and EMI/RFI suppression filters. Continuously adjustable slider; with single-pole or three-way switching. Comply with UL 1472. 600W or 1200W as required by load.
         Incandescent Lamp Dimmers: 120 V; control shall follow square-law dimming curve. On-off switch positions shall bypass dimmer module.
         LED Dimmers: Modular; compatible with dimming drivers in fixture(s); if other than 0-10V dimming is provided, verify dimmer is compatible with driver for full range of dimming (100-10%).
      6) Equivalent devices by Leviton, Bryant, Hubbell, Wattstopper, Lithonia, Sensor Switch.
   D. Weatherproof cover plates:
      1) Provide GFCI receptacles for weatherproof receptacles.
      2) For wet locations: in-use NEMA 3R, UL-labeled plates die cast metal and lockable.
      3) For damp locations: UL-listed for wet locations w/ cover(s) closed; die-cast aluminum or type 302 SS; single-cover for switches & vertically mounted receptacles; double-cover for horizontally mounted receptacles; self-closing covers.
12. DISCONNECT (SAFETY) SWITCHES
   A. Disconnect (safety) switches: Square D, Siemens, Cutler Hammer, or General Electric fused or non-fused (as indicated on drawings or required) NEMA KS1, heavy duty, externally operated, visible-blade safety switches; NEMA enclosure type indicated on drawings or suitable for environment in which installed. Based on fusible switch & fuse sizes indicated, include class R, J, or L fuse provisions as applicable.
   B. Where indicated, provide fusible switches permanently labeled as suitable for use as service entrance equipment, w/ integral & separate neutral & ground assemblies, suitable for sizes of conductors indicated. Do not double-lug any terminations not specifically listed as suitable for more than one conductor.
   C. Provide switches where not furnished w/ starting equipment, at all other points required by NFPA 70, & where indicated on drawings.
13. LUMINAIRES, LAMPS & BALLASTS
   A. Refer to lighting fixture schedule plans for fixture types.
   B. Equivalent luminaires by Hubbell, Infinity, Lithonia, Williams, Eaton [Cooper].
   C. Fluorescent Fixtures:
      1) Lamps shall be type recommended by fixture manuf. Lamp none above manuf recommended max wattage. Color temperature shall be coordinated throughout project, with generally 4100k interior lamps and min 85 CRI. Equivalent lamps by G.E., Venture, Phillips Or Sylvania.
      2) Ballasts - Fluorescent - electronic, <20%THD, Equivalent by Advance, G.E., Motorola, Or Magnetek.
   D. LED Fixtures:
      1) Lamps & modules: Philips, General Electric, Osram/Sylvania, Cree, Nichia.
      2) LED components, lamps, drivers, and fixtures shall comply with: PCC 47 CFR Part 15; UL 8750; ANSI/NEMA Standards C78.377, NEMA SSL-1, C82.77, IESNA Standards TM-16-05, RP-16, LM-79, LM-80 and TM-21.
      3) Drivers shall be integral to the fixture unless otherwise shown or specified.
   E. Emergency ballasts/drivers/batteries/inverters - shall be Bodine, Iota. Coordinate voltages and outputs for min. 90 minute operation with fixtures scheduled and controls indicated and provided.
   F. Execution:
      1) Provide lighting fixtures w/ lamps & accessories req'd for hanging. Coord mounting of lighting fixtures w/ architect & G/C. Additional fixture supports shall be provided by E/C. Supports shall comply w/ latest edition of NEC. Provide lighting fixture securing clips as required. Consult arch plans for ceiling types & provide surface & recessed lighting fixtures w/ appropriate mounting components & accessories.
      2) Fixtures mounted in fire rated ceilings shall be provided & installed w/ fire rated enclosures to maintain ceiling integrity.
      3) Poles & support components: comply w/ AASHTO LTS-4. Provide steel poles in color as specified or selected by architect. Provide bolt covers. Provide concrete base for pole & ground rod.
14. ADJUSTING, ALIGNING & TESTING
   A. Adjust, align, & test all electrical equipment on this project provided under this division & all electrical equipment furnished by others for installation or wiring under this division for proper operation. Test all systems & equipment according to requirements in NETA ATS (latest edition) & all additional requirements specified
   B. In following sections. Maintain following on project premises at all times: true RMS reading voltmeter, true RMS reading ammeter, & megohmmeter insulation resistance tester. Provide test data readings as requested or as required by engineer
15. SYSTEM START UP
   A. Prior to starting up electrical systems:
      1) Check all components & devices.
      2) Lubricate items accordingly.
      3) Tighten screws & bolts for connectors & terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486a & UL 486b.
      4) Check & record building's service entrance voltage, grounding conditions, grounding resistance, & proper phasing.
   B. Replace all burned-out lamps & lamps used for temporary construction lighting in permanent light fixtures.
   C. After all systems have been inspected & adjusted, confirm all operating features required by drawings & specifications & make final adjustments as necessary.

END OF DIVISION 26000

SECTION 27000 - COMMUNICATIONS

1. GENERAL ELECTRICAL REQUIREMENTS
   A. Refer to GENERAL MECHANICAL, ELECTRICAL & PLUMBING requirements.
2. TELECOMMUNICATIONS SYSTEMS PROVISIONS
   A. Provide incoming telephone and/or data service raceways as indicated on drawings or as required by serving telecommunications company.
   B. Provide 3/4-inch thick plywood board, fire-retardant- treated & stamped FRT, securely anchored to wall, at location & of size as indicated on drawings.
   C. Provide flush mounted telephone and/or data outlet boxes w/ 3/4-inch EMT stub-up concealed to accessible ceiling space at locations as indicated on drawings.
3. BACKBOARDS
   A. Backboards: Plywood, fire-retardant treated, 3/4"X48"X96".

END OF DIVISION 27000

SECTION 28000 - SAFETY & SECURITY

1. GENERAL ELECTRICAL REQUIREMENTS
   A. Refer to GENERAL MECHANICAL, ELECTRICAL & PLUMBING requirements.
2. EXISTING FIRE ALARM SYSTEM MODIFICATIONS
   A. Provide following new equipment, compatible w/, or of same manufacturer as, existing fire alarm control panel & system, at locations indicated on drawings, as required by building codes, landlord, or all three, & connect to existing fire alarm control panel:
      1) Additional initiating devices, indicating appliances, & interconnecting circuits.
      2) Additional zone modules required by new zoning.
      3) New amplifiers & other equipment that may be required to incorporate new initiating devices & indicating appliances into existing system.
      4) A new zone map, including all existing zones & all new zones, framed, mounted under glass, & installed adjacent to fire alarm control panel. Horn/strobes shall meet all requirements of ADA.
   B. Install all wiring in raceway.
   C. Where acceptable to AHJ, plenum rated cables may be used above suspended accessible ceilings.
   D. Execution:
      1) Submit shop drawings w/ wiring diagrams & battery calcs for approval to Fire Marshal & AHJ.
      2) Coordinate to provide power & shutdown or operation of fire/smoke dampers, door hold opens, power to door locks &access control & other similar systems.
      3) Installed & tested per NFPA 72 & applicable sections of NFPA 70. Provide complete fire alarm system as described herein & shown to be wired, connected, & in first class condition. Include sufficient control unit(s), annunciator(s), manual stations, automatic fire detectors, smoke detectors, audible & visible notification appliances, wiring, terminations, electrical boxes, & all necessary material for complete operating system.

END OF DIVISION 28000

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/15/2023

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02/17/23
William E. Kent - Engineer
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Summer Moon COFFEE

PROJECT NO:	22056
DATE:	2023-02-17
DRAWN BY:	Author
CHECKED BY:	Checker
CHECKED BY:	Designer

REVISED DATE	DESCRIPTION

SPECIFICATIONS

MEP103

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22.035

TRUE NORTH PLAN NORTH

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PLOT DATE: 2/17/2023 7:48:19 AM

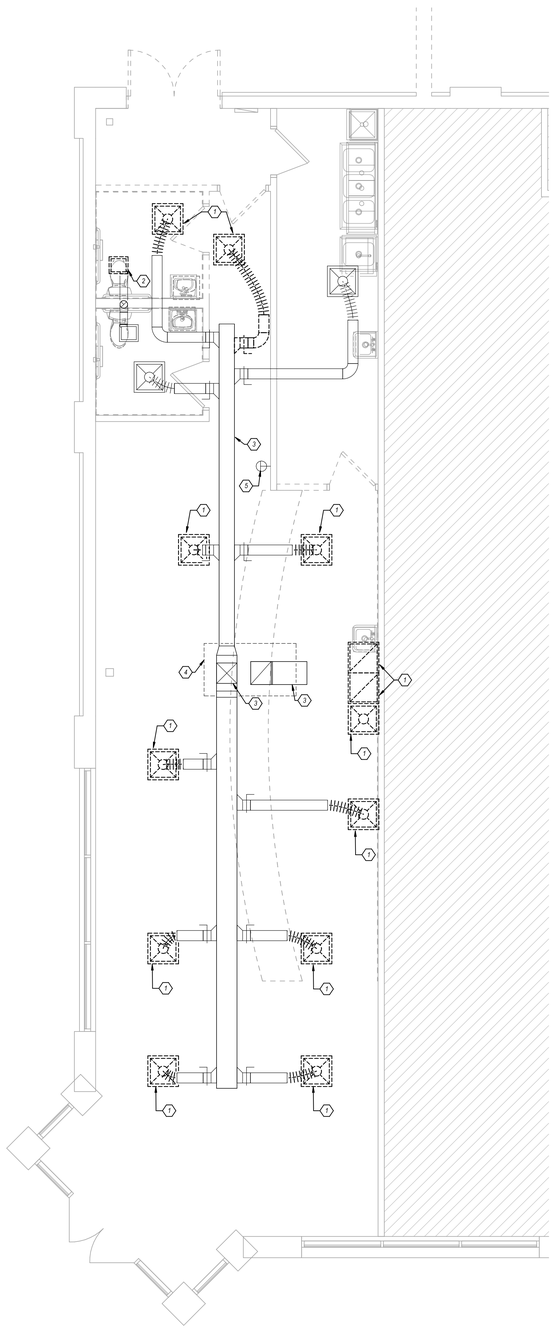
SHEET SIZE: ARCH E1 30" x 42"

GENERAL DEMOLITION NOTES

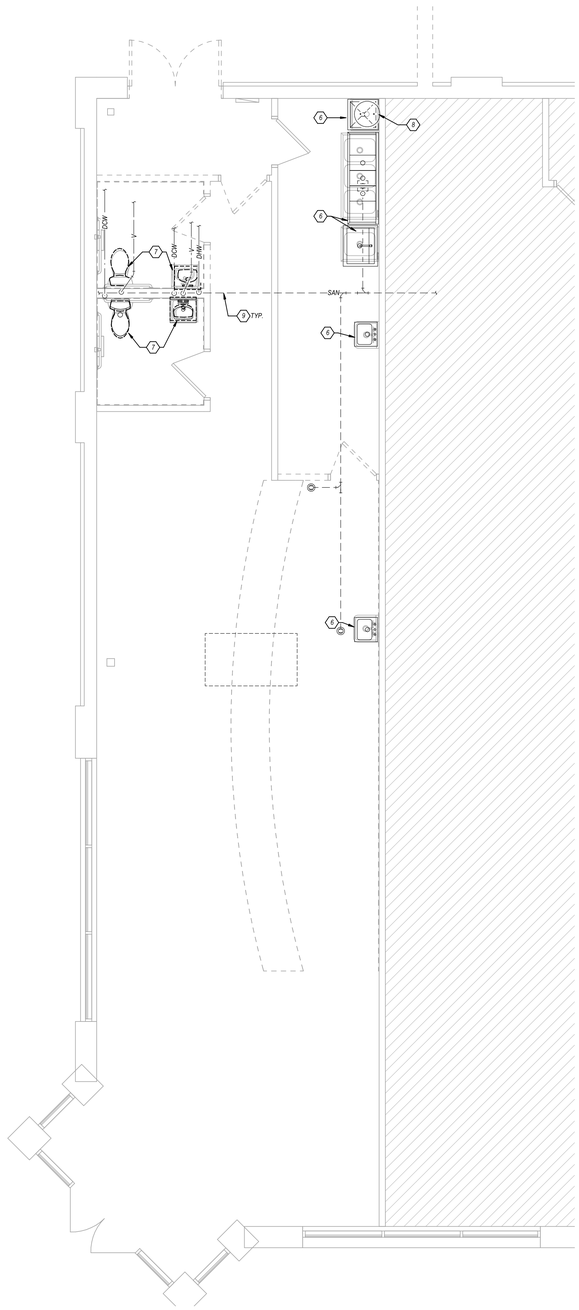
1. REFER TO GENERAL DEMOLITION NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

KEYED NOTES - DEMOLITION

1 REMOVE DIFFUSER/GRILLE. CLEAN AND PREPARE TO BE RE-INSTALLED IN NEW CEILING.
2 REMOVE EXISTING EXHAUST FAN. CLEAN, INSPECT, AND PREPARE TO BE RE-INSTALLED IN NEW BATHROOM CEILING.
3 EXISTING DUCT MAIN SUPPLY/RETURN SERVING SPACE TO REMAIN AND BE REUSED. FIELD CONFIRM EXACT LOCATION AND PREPARE EXISTING SUPPLY TAPS FOR CONNECTION TO NEW DIFFUSERS.
4 EXISTING RTU TO REMAIN AND BE REUSED.
5 EXISTING THERMOSTAT TO REMAIN.
6 EXISTING FIXTURE TO REMAIN.
7 REMOVE EXISTING FIXTURE CLEAN AND PREPARE TO BE RE-INSTALLED IN SAME LOCATION AFTER RESTROOM RENOVATION.
8 EXISTING WATER HEATER TO REMAIN.
9 EXISTING PIPING. FIELD VERIFY EXACT LOCATION.



FLOOR PLAN - DEMOLITION - MECHANICAL
SCALE: 1/4" = 1'-0"



FLOOR PLAN - DEMOLITION - PLUMBING
SCALE: 1/4" = 1'-0"

YAEGER ARCHITECTURE

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Summer Moon COFFEE

PROJECT NO:	22056
DATE:	2023-02-17
DRAWN BY:	Author
CHECKED BY:	Checker
CHECKED BY:	Designer

REVISED DATE	DESCRIPTION

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22.ESS

HVAC DEMOLITION PLAN

DMP101

TRUE NORTH PLAN NORTH

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PLOT DATE: 2/17/2023 7:48:20 AM

SHEET SIZE: ARCH E1 30" x 42"

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	BORDER TYPE	FACE SIZE (IN.)	NECK SIZE	VOLUME DAMPER	MATERIAL	FINISH	REMARKS
SUPPLY										
EX	*TITUS*	*TMS*	*SQUARE CEILING DIFFUSER*	*GRID*	*24x24*	*AS INDICATED*	*NO*	*STEEL*	*WHITE*	
RETURN										
EX	*TITUS*	*350RL*	*GRILLE WITH 3/4" SPACING AND 35° DEFLECTION*	*GRID*	*24x24*	*20x20*	*NO*	*STEEL*	*WHITE*	
R1	*TITUS*	*350RL*	*GRILLE WITH 3/4" SPACING AND 35° DEFLECTION*	*GRID*	*24x24*	*20x20*	*NO*	*STEEL*	*WHITE*	

REMARKS:
1 PROVIDE WITH ALL NECESSARY MOUNTING HARDWARE.
2 PROVIDE WITHOUT SCREW HOLES WHERE USED IN GRID CEILING.
3

DUCTWORK INSULATION SCHEDULE

DUCT				INSULATION			
PURPOSE	*DUTY*	*LOCATION*	*STYLE*	*MATERIAL*	*APPLICATION*	*THICKNESS*	*NOTES*
SUPPLY	*LOW PRESSURE / VELOCITY*	*CONCEALED*	*RECTANGULAR*	*FIBERGLASS*	*LINED*	*1/2"*	*---*
		CONCEALED	*ROUND*	*MINERAL FIBER*	*WRAPPED*	*1-1/2"*	*---*
		EXPOSED	*RECTANGULAR*	*FIBERGLASS*	*LINED*	*1/2"*	*---*
		EXPOSED	*ROUND*	*FIBERGLASS*	*LINED*	*1/2"*	*---*
	ALL	*UNCONDITIONED ATTICS*	*ALL*	*MINERAL FIBER*	*WRAPPED*	*1-1/2"*	*1*
		EXTERIOR	*ALL*	*FLEXIBLE ELASTOMERIC*	*WRAPPED*	*2"*	*---*
RETURN	*LOW PRESSURE / VELOCITY*	*CONCEALED*	*RECTANGULAR*	*FIBERGLASS*	*LINED*	*1/2"*	*---*
		CONCEALED	*ROUND*	*MINERAL FIBER*	*WRAPPED*	*1-1/2"*	*---*
		RETURN/TRANSFER BOOTS	*RECTANGULAR*	*FIBERGLASS*	*LINED*	*1/2"*	*---*
	ALL	*UNCONDITIONED ATTICS*	*ALL*	*MINERAL FIBER*	*WRAPPED*	*1-1/2"*	*1*
		EXTERIOR	*ALL*	*FLEXIBLE ELASTOMERIC*	*WRAPPED*	*2"*	*---*
EXHAUST	*LOW PRESSURE / VELOCITY*	*CONCEALED*	*RECTANGULAR*	*FIBERGLASS*	*LINED*	*1/2"*	*---*
		CONCEALED	*ROUND*	*FIBERGLASS*	*LINED*	*1/2"*	*2*

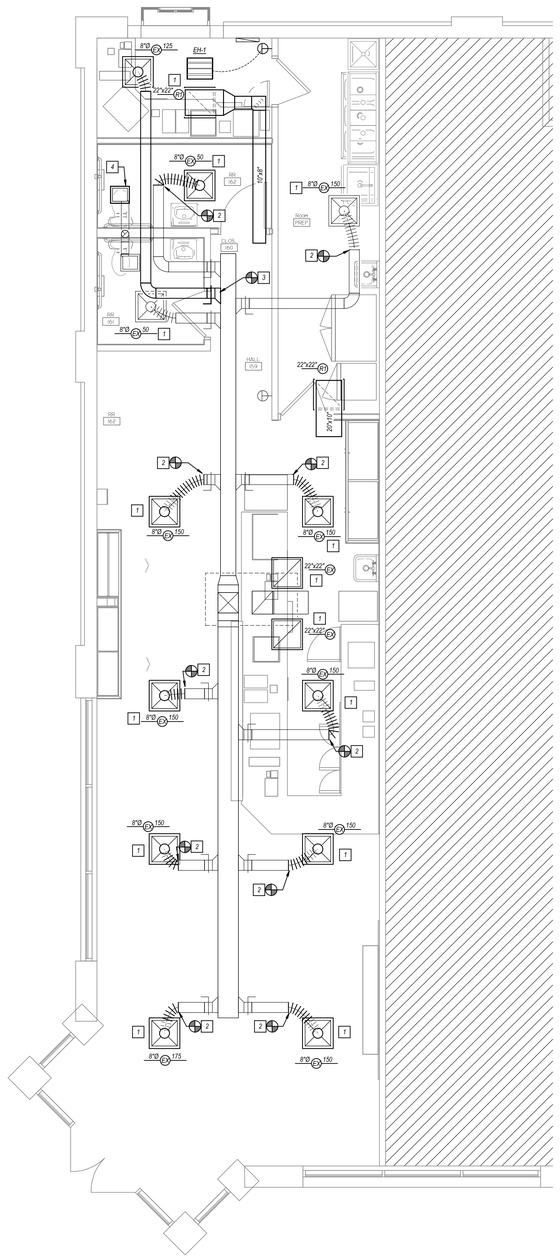
NOTES:
1. IN ADDITION TO OTHER SCHEDULED INSULATION.
2. PROVIDE LINER ONLY WITHIN 10' OF FAN FOR ACCOUSTICS.

GENERAL REMARKS (APPLICABLE TO ALL TYPES):
1) ALL DUCTWORK, INSULATION AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2) ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2010 REQUIREMENTS AT A MINIMUM.
3) REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION FOR INSULATION PRODUCTS AND SYSTEMS.

ELECTRIC HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	CFM	KW	TEMP RISE	ELECTRICAL		REMARKS
							VOLTAGE	PHASE	
EH-1	*QMARK*	*CDF-SE*	*CEILING HEATER*	*300*	*2.5*	*26 °F*	*208*	*1*	*1*

REMARKS:
1 PROVIDE WITH WALL-MOUNTED THERMOSTAT AND INTEGRAL DISCONNECT.



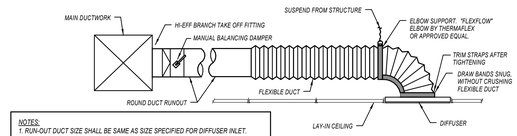
FLOOR PLAN - HVAC
SCALE: 1/4" = 1'-0"

GENERAL HVAC NOTES

1. *REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.*
2. *ROUND BRANCH DUCT RUNOUTS AND FLEXIBLE DUCT SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS NOTED OTHERWISE.*
3. *MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0".*
4. *ALL RUNOUTS TO TERMINAL BOXES SHALL BE ONE SIZE LARGER THAN BOX INLETS UNLESS NOTED OTHERWISE.*
5. *ALL AIR DISTRIBUTION DEVICES SHALL HAVE LOCKABLE VOLUME CONTROL DEVICES.*
6. *ALL 90 DEGREE TURNING ELBOWS SHALL BE SMOOTH ROUND OR SQUARE WITH TURNING VANES.*
7. *DUCT SIZES SHOWN ON PLANS ARE INSIDE FREE AREA.*
8. *PROVIDE ACCESS DOORS IN DUCTS AHEAD OF ALL AUTOMATIC, FIRE, AND SMOKE DAMPERS.*
9. *FOR BALANCING THE OUTSIDE AIRFLOW QUANTITIES, REFER TO HVAC SCHEDULES.*

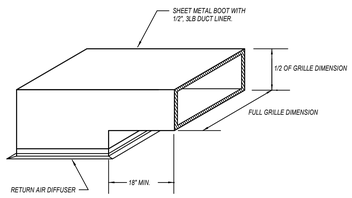
2 KEYED NOTES - HVAC

1. *EXISTING DIFFUSER/GRILLE RELOCATED IN NEW CEILING. BALANCE TO NEW AIRFLOWS AS SHOWN.*
2. *CONNECT NEW SUPPLY DUCT TO EXISTING TAP FOR RELOCATED DIFFUSER. EXACT LOCATION TO BE FIELD CONFIRMED.*
3. *PROVIDE NEW TAP TO EXISTING MAIN.*
4. *EXISTING EXHAUST FAN RELOCATED IN NEW CEILING. RECONNECT TO EXISTING EXHAUST DUCT.*

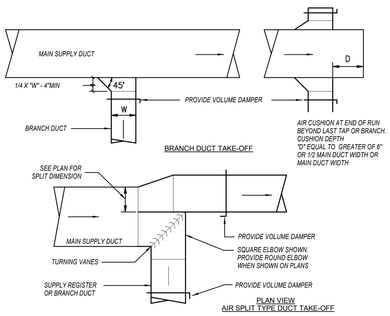


NOTES:
1. RUN-OUT DUCT SIZE SHALL BE SAME AS SIZE SPECIFIED FOR DIFFUSER INLET. INCREASE RUN-OUT DUCT SIZE 2" WHEN LENGTH OF RUN-OUT DUCT EXCEEDS 20'-0" AND PROVIDE TRANSITION AT THE DIFFUSER.
2. MAXIMUM FLEXIBLE DUCTWORK LENGTH IS 6'-0" UNLESS OTHERWISE NOTED ON DRAWINGS.
3. FLEXIBLE DUCTWORK MUST BE FULLY EXTENDED AND NOT IN CONTACT WITH PIPES AND/OR CONDUITS.
4. INSTALL FLEXIBLE DUCTWORK SUPPORTS AT ALL ROUND NECK OUTLETS/INLETS UNLESS OTHERWISE NOTED ON DRAWINGS.
5. FLEXIBLE DUCTWORK IS NOT TO BE USED IN UNACCESSIBLE LOCATIONS. (ABOVE GYP. BOARD CEILINGS, ETC.)

DUCT CONNECTION TO LAY-IN DIFFUSER DETAIL
NOT TO SCALE



RETURN AIR BOOT
NOT TO SCALE



DUCTWORK TAKEOFFS
NOT TO SCALE

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Summer Moon COFFEE

PROJECT NO:	22056
DATE:	2023-02-17
DRAWN BY:	Author
CHECKED BY:	Checker
CHECKED BY:	Designer

REVISED DATE	DESCRIPTION

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22.035

TRUE NORTH PLAN NORTH

MECHANICAL - HVAC

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FILE PATH: C:\Users\matt.perry\Documents\22.035 resp.central_23_matt.perry1ZWVGX.rvt
PLOT DATE: 2/17/2023 1:48:21 AM
SHEET SIZE: ARCH E1 30" x 42"

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE			FITTINGS			REMARKS	CONNECTION SIZES			
	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL	DESCRIPTION		DHW	DCW	WASTE	VENT
GG-1	GUY GRAY	BIM875	GALVANIZED STEEL DCW OUTLET BOX.	---	---	---	---		1/2"		

REMARKS:
1 PROVIDE CHROME-PLATED BRASS TAILPIECE AND GRID DRAIN.
2 PROVIDE CHROME-PLATED BRASS P-TRAP.
3 PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS.
4 PROVIDE CONCEALED ARM TYPE CARRIER WITH SQUARE, TUBULAR STEEL UP-RIGHTS AND BLOCK TYPE BASES.
5 INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS. REFER TO SPECIFICATIONS FOR INSULATION METHODS.
6 PROVIDE FLUSH VALVE HANDLE ON WIDE SIDE OF STALL.
7 PROVIDE HANDLE STOPS AND FLEXIBLE RISERS.
8 PROVIDE CHROME-PLATED BRASS TAILPIECE AND BASKET STRAINER.
9 MOUNT BED PAN WASHER CONNECTION AT 64" A.F.F. UNLESS OTHERWISE NOTED ON PLANS OR RECOMMENDED BY MANUFACTURER.
10 FIXTURE IS OWNER-FURNISHED, CONTRACTOR-INSTALLED. COORDINATE ALL WORK WITH SUPPLIER.
11

GENERAL NOTES (APPLICABLE TO ALL FIXTURES):
1 ALL LAVATORIES AND SINKS USED FOR HAND WASHING SHALL BE PROVIDED WITH AN ANTI-SCALD TEMPERATURE MIXING VALVE ON THE HOT WATER SUPPLY - REFER TO DETAIL.
2 FIXTURE CONNECTION SIZES SHOWN IN SCHEDULE ARE CONNECTION SIZE AT FIXTURE ON PLANS.

PIPING MATERIAL AND INSULATION SCHEDULE

PIPING					FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION	
SYSTEM	SIZE	MATERIAL	TYPE/SCHED	ACCEPTABLE FITTINGS			TYPE	THICKNESS
DOMESTIC COLD WATER	1/2" - 2-1/2"	Copper	L	Solder, Pro-Press	130 PSI - 1/2 HR	Yes	Fiberglass w/ASJ	1/2"
DOMESTIC COLD WATER - BELOW GRADE	1/2"-1-1/4"	Copper	K	Continuous Tubing, Brazed	130 PSI - 1/2 HR	N/A	---	---
DOMESTIC HOT WATER & HW RETURN	1/2" - 2-1/2"	Copper	L	Solder, Pro-Press	130 PSI - 1/2 HR	Yes	Fiberglass w/ASJ	1"
SANITARY WASTE BELOW GRADE	2"-8"	PVC	Schedule 40	Solvent Joined	10 FT - 1/2 HR	N/A	---	---
VENT ABOVE GRADE	1-1/2"-4"	PVC	Schedule 40	Solvent Joined	10 FT - 1/2 HR	No	---	---
VENT BELOW GRADE	1-1/4"-2"	PVC	Schedule 40	Solvent Joined	10 FT - 1/2 HR	N/A	---	---

REMARKS:
1 ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2 ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2007 REQUIREMENTS AT A MINIMUM.
3 REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.
4 WELDED PIPING IS REQUIRED FOR GAS PIPING WHEN: A) PIPING IS AT OR OVER 2PSI; B) WHEN PIPING OF ANY PRESSURE IS ROUTED THROUGH CONCEALED SPACES.

FLOOR DRAIN SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	TOP/GRATE SIZE	WASTE SIZE	REMARKS
FD-1	WATTS	FD-100A-6-2	FLOOR DRAIN	6"	2"	1
FS-1	WATTS	FS-712	FLOOR SINK	8"	2"	2

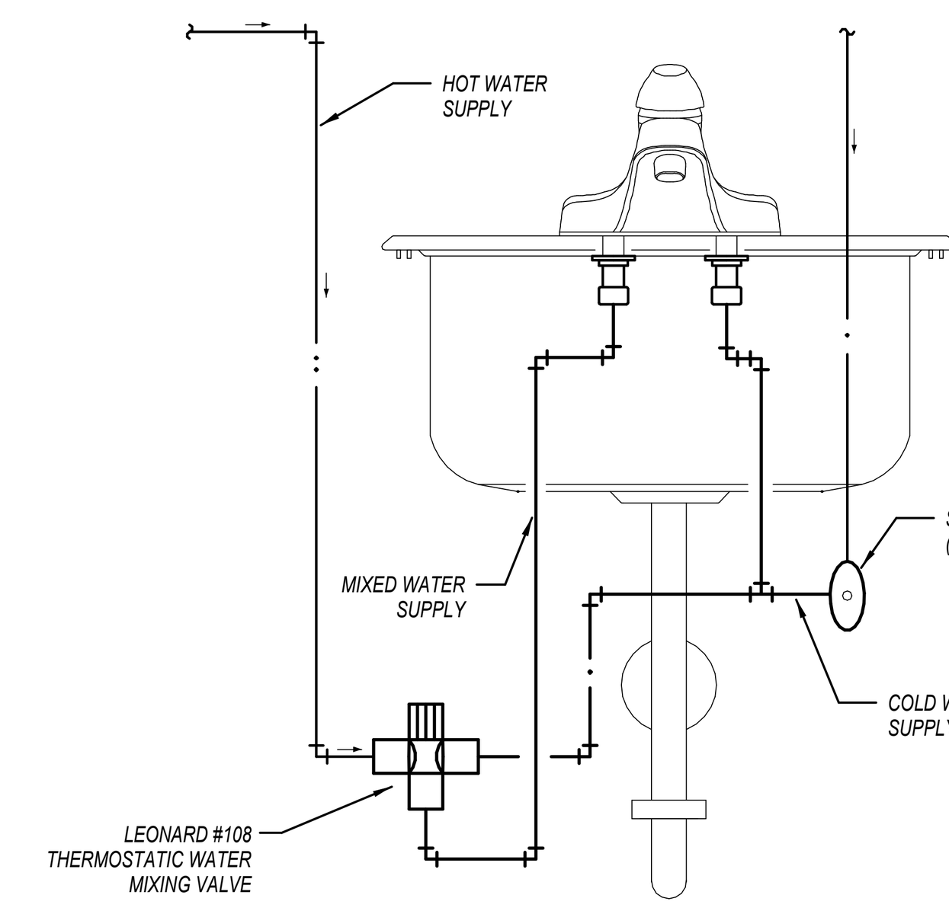
REMARKS:
1 PROVIDE WITH NICKEL BRONZE TOP.
2 PROVIDE WITH HALF GRATE.

GENERAL PLUMBING NOTES

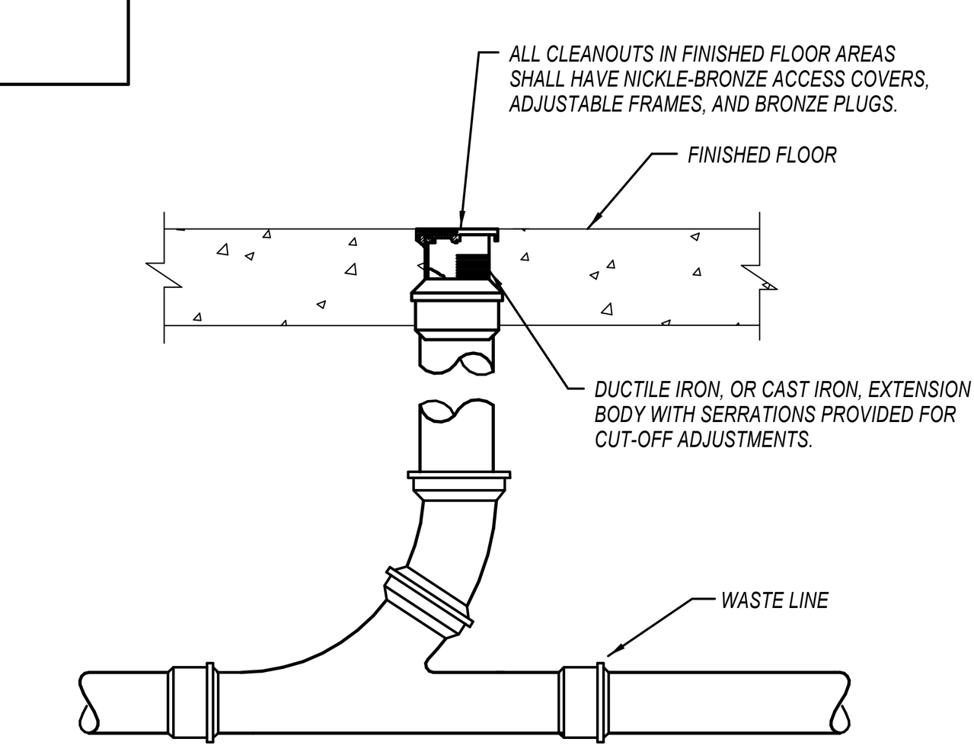
1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. REFER TO PLUMBING FIXTURE / DRAIN SCHEDULES FOR PIPING SIZES FOR INDIVIDUAL CONNECTIONS TO FIXTURES AND RISERS NOT SHOWN ON PLANS.
3. NO SANITARY OR VENT PIPING BELOW GRADE SHALL BE LESS THAN 2".
4. NO DOMESTIC WATER PIPING SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE.
5. ALL VENT PIPING SHOWN IS DIAGRAMMATIC. USE APPROPRIATE FITTINGS FOR VENT PIPING BELOW FLOOD RIM OF FIXTURE.
6. NOT ALL CLEANOUTS ARE SHOWN FOR DRAWING CLARITY. CONTRACTOR SHALL INSTALL ALL CODE-REQUIRED CLEANOUTS (RE: GENERAL NOTES ON COVER SHEET). COORDINATE EXACT LOCATIONS OF CLEANOUTS WITH ARCHITECT.
7. PROVIDE 1/2" TRAP PRIMER PIPING FOR ALL FLOOR DRAINS TO NEAREST TRAP PRIMER VALVE. PIPING SHALL BE TYPE "K" SOFT COPPER SEAMLESS WITH NO JOINTS FROM VALVE TO DRAIN.

(X) KEYED NOTES - PLUMBING

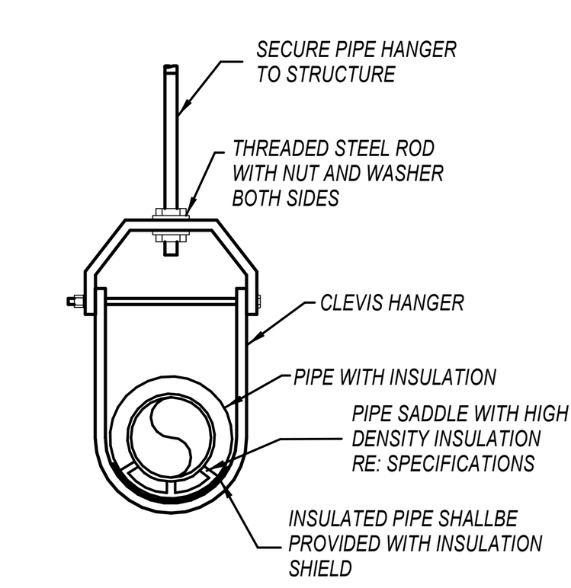
1 FIELD LOCATE EXISTING PIPING AND CONNECT NEW FIXTURE. PROVIDE SHUT OFF VALVE AT DCW CONNECTION LOCATION TO EXISTING.
2 EXISTING PIPING. FIELD VERIFY EXACT LOCATION.
3 ROUTE 1/2" DCW THROUGH CABINETRY, PROVIDE SHUT OFF VALVE AND BACKFLOW PREVENTER.
4 FIELD LOCATE EXISTING VENT PIPING AND CONNECT NEW VENT PIPE.
5 EXISTING FIXTURE TO BE RE-INSTALLED IN SAME LOCATION AFTER RESTROOM RENOVATION.
6 CONNECT 1/2" DCW TO SINK SUPPLY AND ROUTE THROUGH CABINETRY TO FIXTURES/APPLIANCES.
7 1/2" DCW STUB UP TO SERVE COFFEE BREWER. PROVIDE SHUT OFF VALVE AND BACKFLOW PREVENTER.
8 1/2" DCW STUB UP TO SERVE GLASS RINSER.
9 CONNECT NEW WASTE PIPE TO EXISTING BELOW FLOOR. FIELD COORDINATE EXACT LOCATION AND VERIFY EXISTING PIPE IS OF EQUAL OR LARGER SIZE THAN NEW AND NEW PIPING CAN MEET PROPER SLOPE.



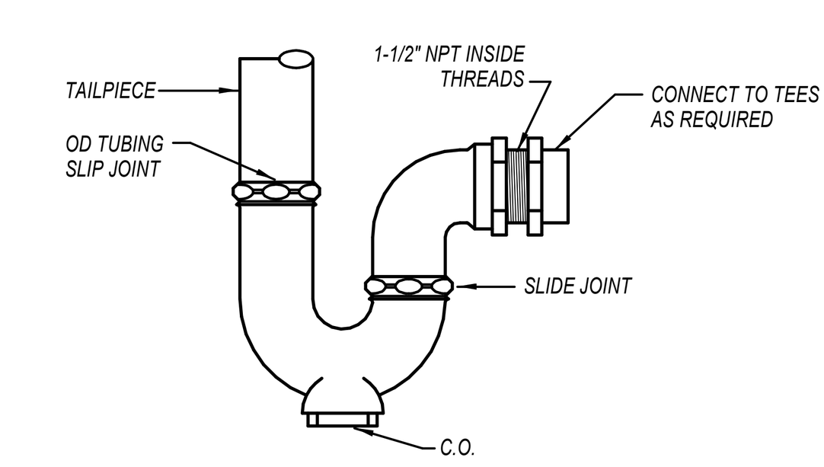
HAND WASHING SINK/LAVATORY TEMPERED WATER SCHEMATIC
NOT TO SCALE



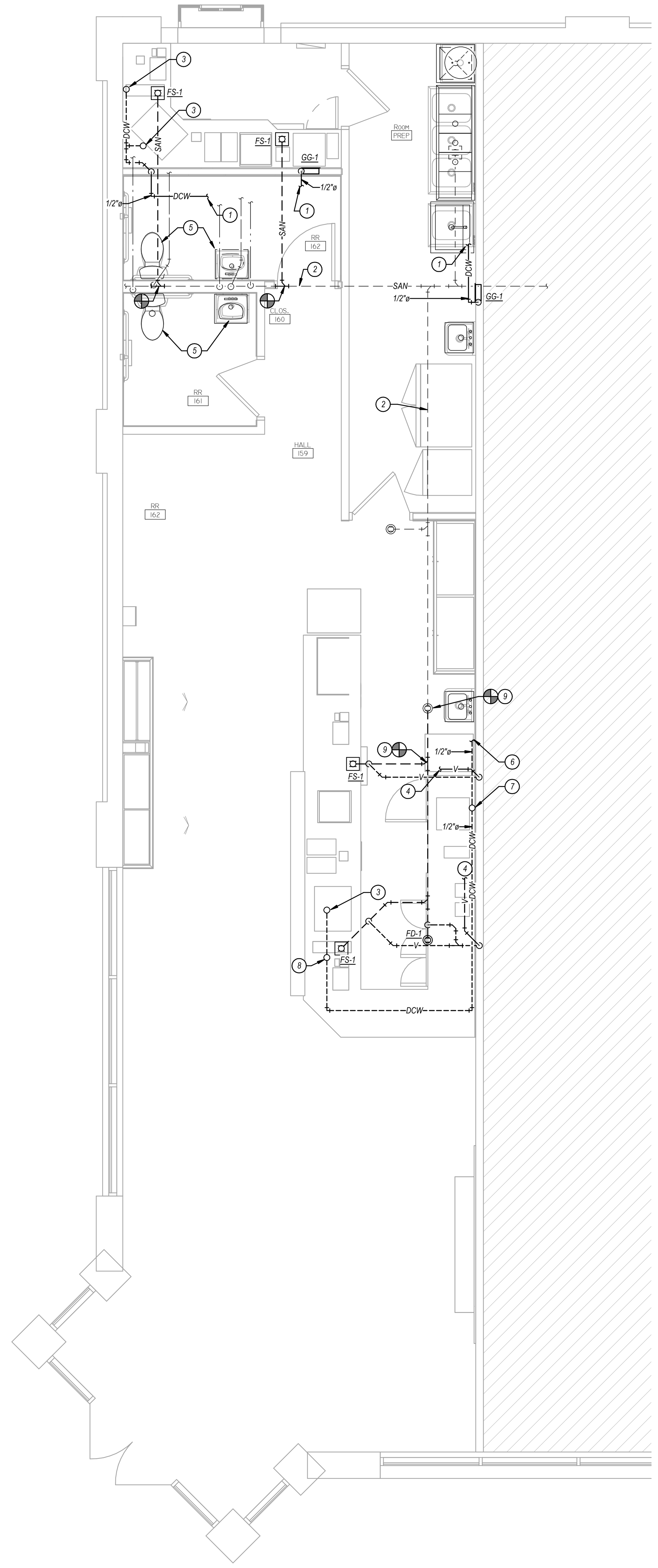
FLOOR CLEANOUT DETAIL
NOT TO SCALE



PIPE HANGER DETAIL
NOT TO SCALE



P-TRAP DETAIL
NOT TO SCALE



FLOOR PLAN - DOMESTIC WATER
SCALE: 1/4" = 1'-0"

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Summer Moon COFFEE

PROJECT NO: 22056
DATE: 2023-02-17
DRAWN BY: Author
CHECKED BY: Checker
CHECKED BY: Designer

REVISED DATE	DESCRIPTION

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MO State Certificate of Authority #E-2002020886

TRUE NORTH PLAN NORTH

PLUMBING

P101

SHEET SIZE: ARCH E1 30" x 42"

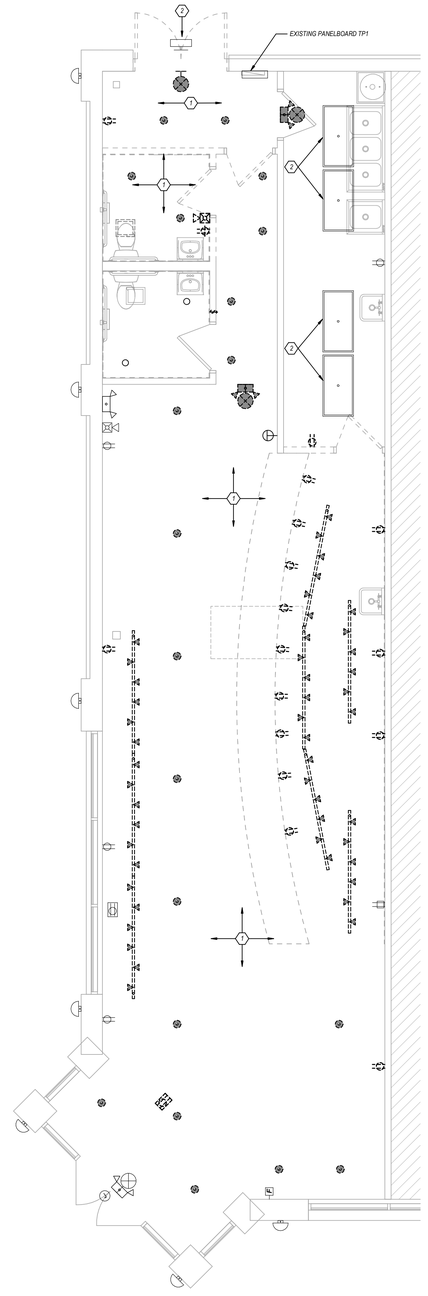
RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
03/15/2023

GENERAL DEMOLITION NOTES

1. REFER TO GENERAL DEMOLITION NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

② KEYED NOTES - DEMOLITION

1 REMOVE ALL DEVICES, FIXTURES AND ASSOCIATED WIRING/CONDUIT UNLESS SHOWN TO REMAIN.
2 CLEAN AND RELAMP EXISTING FIXTURES.



FLOOR PLAN - DEMOLITION - ELECTRICAL

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

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ELECTRICAL - DEMOLITION PLAN

DE101

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TRUE NORTH PLAN NORTH

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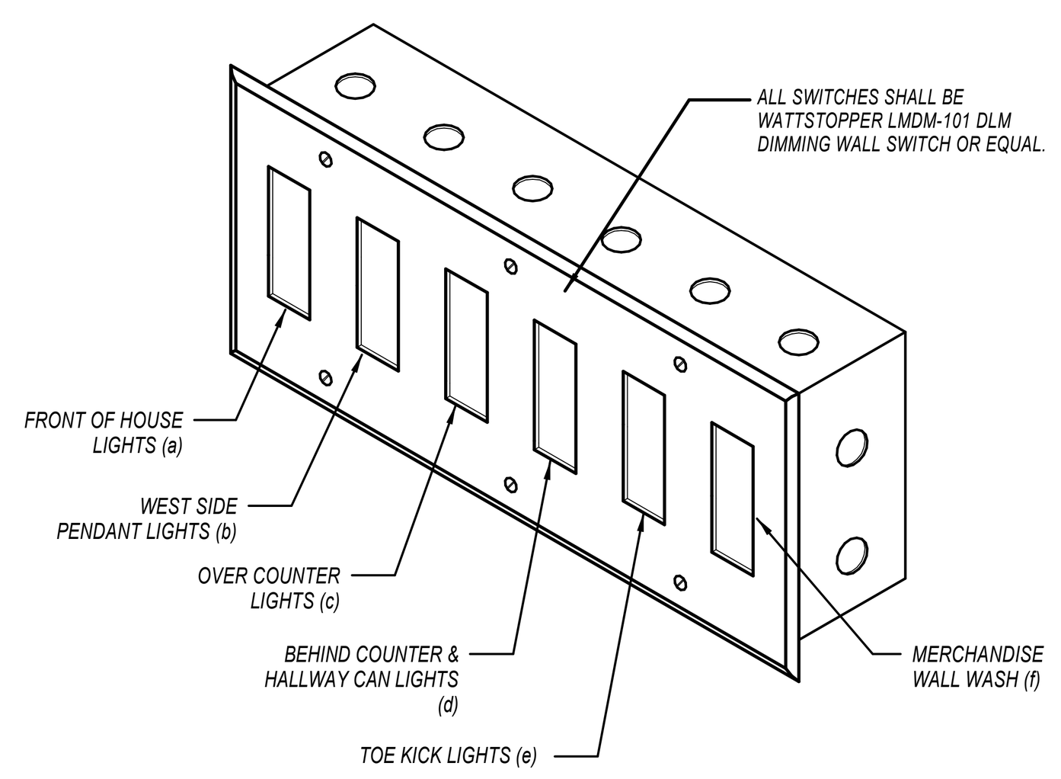
SHEET SIZE: ARCH E1 30" x 42"



SWITCHBANK DETAIL

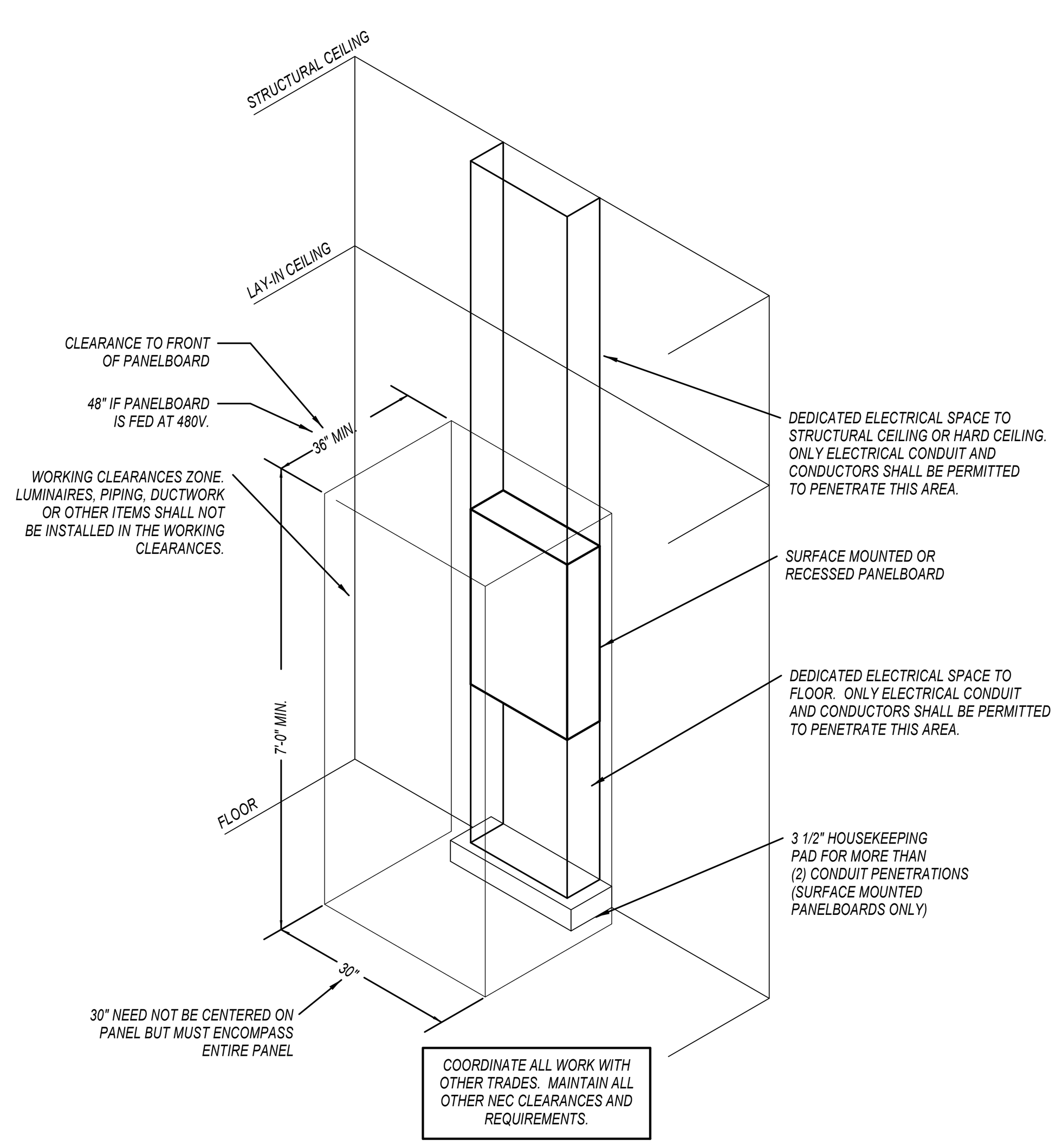
NOT TO SCALE 613-03

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LED MODULE / DRIVER							REMARKS
				ID	WATTS	LUMENS	CRI	CCT	DIMMING	VOLTAGE	
A	HE WILLIAMS	4DR	4.5" ROUND RECESSED DOWNLIGHT. DIE-FORMED STEEL PAN WITH FINNED, EXTRUDED ALUMINUM PASSIVE HEAT SINK. OPEN, SELF-FLANGED, SEMI-SPECULAR LOW IRIDESCENT FINISH ALUMINUM REFLECTOR WITH MEDIUM BEAM ANGLE/DISTRIBUTION AND OPTIONAL 'TD' LENS OVER DIODES.	L20	19.8	2000	90	3500K	0-10V	120	1
B	HE WILLIAMS	AT1	2'x2' STATIC GRID TROFFER. MITERED AND FULLY GASKETED DOOR FRAME WITH FULLY ENCLOSED SPRING-LOADED CAM LATCHES. .125" THICK, #12 PATTERN ACRYLIC LENS. WHITE FINISH.	L40	37.2	4120	90	3500K	0-10V	120	1
C	HUDSON VALLEY	SORIANO	PENDANT-MOUNTED FIXTURE. 3.5"Ø GLASS SHADE WITH DIE-CAST ALUMINUM HOUSING AND HEAT SINK. 6' POWER CORD STANDARD - CONNECTS TO EXPOSED, FLAT CANOPY WITH INTEGRAL 0-10V LED DRIVER. CANOPY MOUNTS TO STANDARD J-BOX. BRASS FINISH.	ONE (1) 12 W EDISON STYLE TUBE LAMP		-	-	-	-	120	1,2
D	HINKLEY LIGHTING	HATHAWAY 5 LIGHT	27" DIAMETER PENDANT-MOUNTED FIXTURE. SPUN METAL HOUSING WITH MATTE WHITE FORMED ACRYLIC BOTTOM DIFFUSER AND TEMPERED PRISMATIC GLASS TOP LENS. SPECULAR ALUMINUM REFLECTORS. STEM-MOUNTS FROM CANOPY - 24" OVERALL FIXTURE HEIGHT. CANOPY MOUNTS TO STANDARD JUNCTION BOX. BRUSHED ALUMINUM FINISH.	FIVE (5) 12 W LED BULBS		-	-	-	-	120	1,2
E	DUAL-LITE	EV SERIES	LOW-PROFILE EMERGENCY LIGHTING UNIT. FLAME-RATED, UV-STABLE THERMOPLASTIC HOUSING. TWO (2) SEMI-RECESSED, ADJUSTABLE "EYEBALL" HEADS WITH GLASS LENS. WHITE FINISH. MAINTENANCE-FREE BATTERY FOR 90 MINUTE OPERATION OF LAMPS. INTEGRAL TEST SWITCH AND AC-ON INDICATOR.	TWO (2) 1.1 WATT 1W LED LED.		-	-	-	-	120	1
G	CHAPMAN & MYERS	KENYON	WALL SCONCE. 18" WIDE PICTURE LIGHT. BRASS FINISH. MOUNT FIXTURE IN "DOWN" POSITION.	TWO (2) 6 W T10 LED		-	-	-	-	120	1,2
H	ADLER & ORE	ALYSSA CHANDELIER	CHAIN-HUNG, CEILING-MOUNTED CHANDELIER. 34" FIXTURE DIAMETER. STEEL CONSTRUCTION WITH WROUGHT IRON DETAILS. NINE (9) 5.13" CYLINDERICAL BULBS.	NINE (9) 20 W MAX LED BULBS		-	-	-	-	120	1,2
J	ANTHROPOLOGIE	ELOISE WALL SCONCE	WALL MOUNTED ARCHITECTUAL LIGHT. TWO HORIZONTALLY MOUNTED LED LAMPS. MILK COLORED GLASS HOUSING. DAMP LOCATION LISTED.	TWO (2) 20 W MAX LED BULBS		-	-	-	-	120	1,2
K	ACCLAIM LIGHTING	FLEX ONE SO EXTERIOR	FLEXIBLE, DIMMABLE TAPE LIGHT. CUTTABLE IN 1" INCREMENTS, 3M ADHESIVE BACKING. FURNISH WITH LOW PROFILE CHANNEL. FURNISH WITH ALL REQUIRED CONNECTION CABLES AND LOW VOLTAGE WIRING. PROVIDE WITH SINGLE DIMMABLE TRANSFORMER SIZED TO ACCOMMODATE ENTIRE LENGTH OF TAPE AT EACH BAR COUNTERTOP.. IP68 WER LOCATION RATED, IK06 IMPACT PROTECTION, AND RATED FOR USE IN FOOD SERVICE APPLICATIONS.	2.43 W/ft		151 LUM/ft	80	2700K	LINE/0-10V	120	1
L	HE WILLIAMS	4AR	4.5" ROUND RECESSED ADJUSTABLE DOWNLIGHT. DIE-FORMED STEEL PAN WITH FINNED, EXTRUDED ALUMINUM PASSIVE HEAT SINK. OPEN, SELF-FLANGED, SEMI-SPECULAR LOW IRIDESCENT FINISH ALUMINUM REFLECTOR WITH MEDIUM BEAM ANGLE/DISTRIBUTION.	L20	19.8	2000	90	3500K	0-10V	120	1,2
M	HE WILLIAMS	WDGE1	EXTERIOR ROUND WALL PACK FIXTURE. DIE-CAST ALUMINUM HOUSING. CLEAR GLASS LENS. FORWARD THROW OPTICS. POWDER COAT FINISH DARK BRONZE - COORDINATE WITH ARCHITECT/BUILDING OWNER. UL LISTED WET LOCATION.	P2	15	2000	90	3500K	-	120	1,2
E	DUAL-LITE	EV SERIES	LOW-PROFILE EMERGENCY LIGHTING UNIT. FLAME-RATED, UV-STABLE THERMOPLASTIC HOUSING. TWO (2) SEMI-RECESSED, ADJUSTABLE "EYEBALL" HEADS WITH GLASS LENS. WHITE FINISH. MAINTENANCE-FREE BATTERY FOR 90 MINUTE OPERATION OF LAMPS. INTEGRAL TEST SWITCH AND AC-ON INDICATOR.	TWO (2) 1.1 WATT 1W LED LED.		-	-	-	-	120	-
X	DUAL-LITE	EVE SERIES	COMPACT, LOW-PROFILE EXIT SIGN. UV STABLE THERMOPLASTIC HOUSING. WHITE FINISH WITH RED LETTERS. SIDE, TOP, OR WALL MOUNTED IN SINGLE/DOUBLE FACE CONFIGURATION WITH DIRECTIONAL ARROWS AS INDICATED ON PLANS.	SIX (6) HIGH-OUTPUT LEDS. TOTAL POWER CONSUMPTION = 1.4 WATTS.		-	-	-	-	120	-

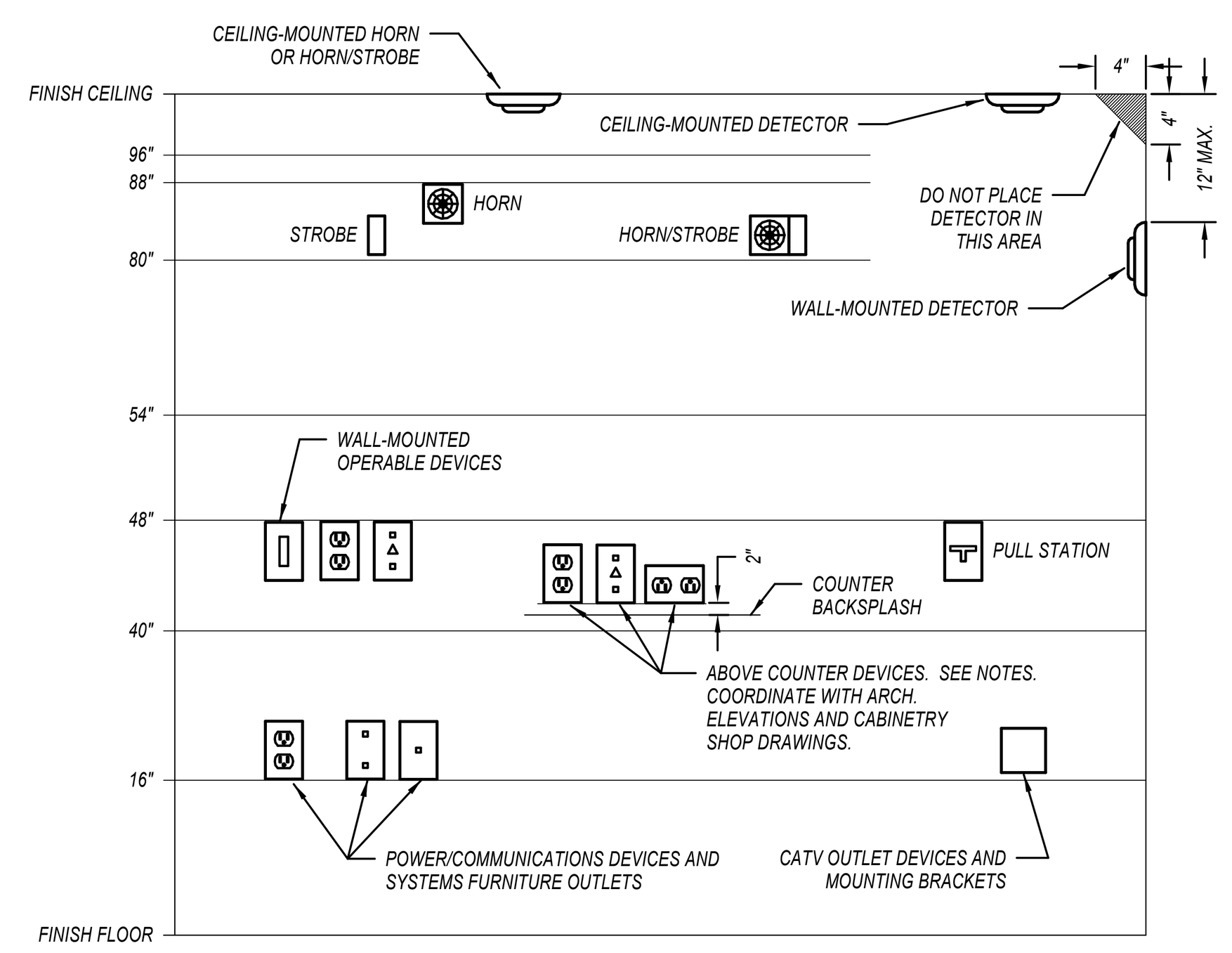
REMARKS:
1. FURNISH WITH AND INSTALL ALL NECESSARY HARDWARE AND MOUNTING BRACKETS.
2. FIXTURE HAS BEEN SELECTED BY OWNER. IN GENERAL, NO SUBSTITUTIONS WILL BE ALLOWED - COORDINATE SAME WITH OWNER.

GENERAL NOTES (APPLICABLE TO ALL FIXTURES):
1) EQUALS ARE ACCEPTABLE ON ALL LIGHT FIXTURES UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR APPROVED EQUAL FIXTURE MANUFACTURERS.



TYPICAL PANELBOARD INSTALLATION DETAIL

NOT TO SCALE



GENERAL NOTES:
1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.
2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
3. ALL INSTALLATIONS SHALL COMPLY WITH ADA.

VISUAL FIRE ALARM NOTIFICATION DEVICES (STROBE)
LOCATE DEVICE SO THE BOTTOM OF THE DEVICE IS BETWEEN 80" AND 96" A.F.F. (NFPA) OR 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 2010).

AUDIBLE FIRE ALARM NOTIFICATION DEVICES (HORN)
LOCATE DEVICE SO THAT THE TOP OF UNIT IS NOT MORE THAN 90" A.F.F. AND NOT LESS THAN 6" BELOW CEILING (NFPA)

FIRE ALARM ACTIVATION DEVICES (PULL STATION)
LOCATE FRONT-APPROACH DEVICES SO THAT THE HIGHEST OPERABLE PORTION OF THE DEVICE IS NOT MORE THAN 48" A.F.F (ADA 2010) AND NOT LESS THAN 42" A.F.F. (NFPA).

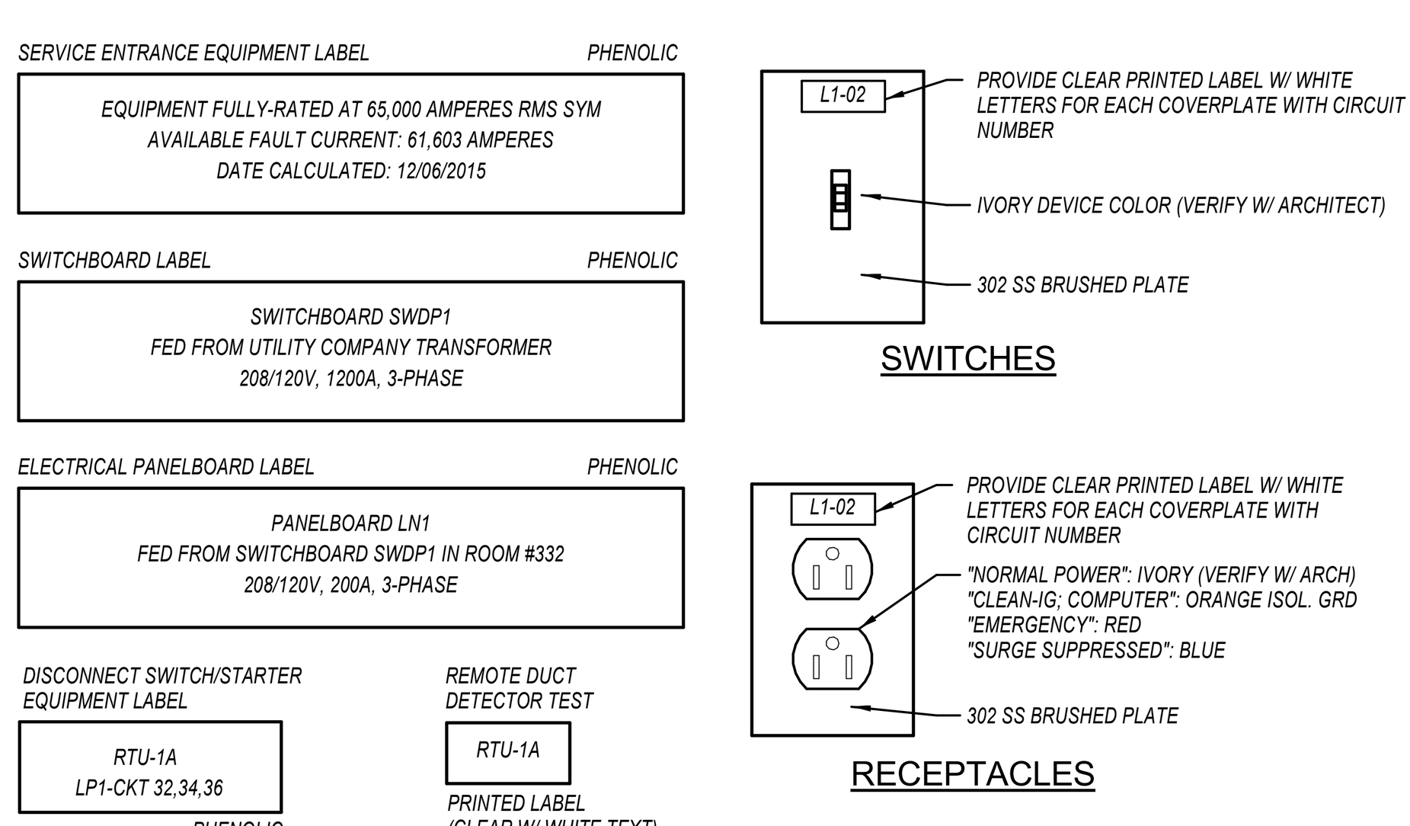
POWER/COMMUNICATION DEVICES:
OUTLETS SHALL BE LOCATED AT 16" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSPLASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.

WALL-MOUNTED OPERABLE DEVICES:
OPERABLE DEVICES SHALL BE LOCATED AT 48" A.F.F. TO THE TOP OF THE OPERABLE PORTION OF THE DEVICE.

WALL-MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
LIGHT SWITCHES, DIMMERS, CONTROLS, ETC.
PUSH BUTTONS
NURSE/PATIENT CALL DEVICES (INLUDING THOSE FOR STAFF USE)
OTHER CONTROL OR "CALL" DEVICES

MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES

NOT TO SCALE



LABELING DETAIL

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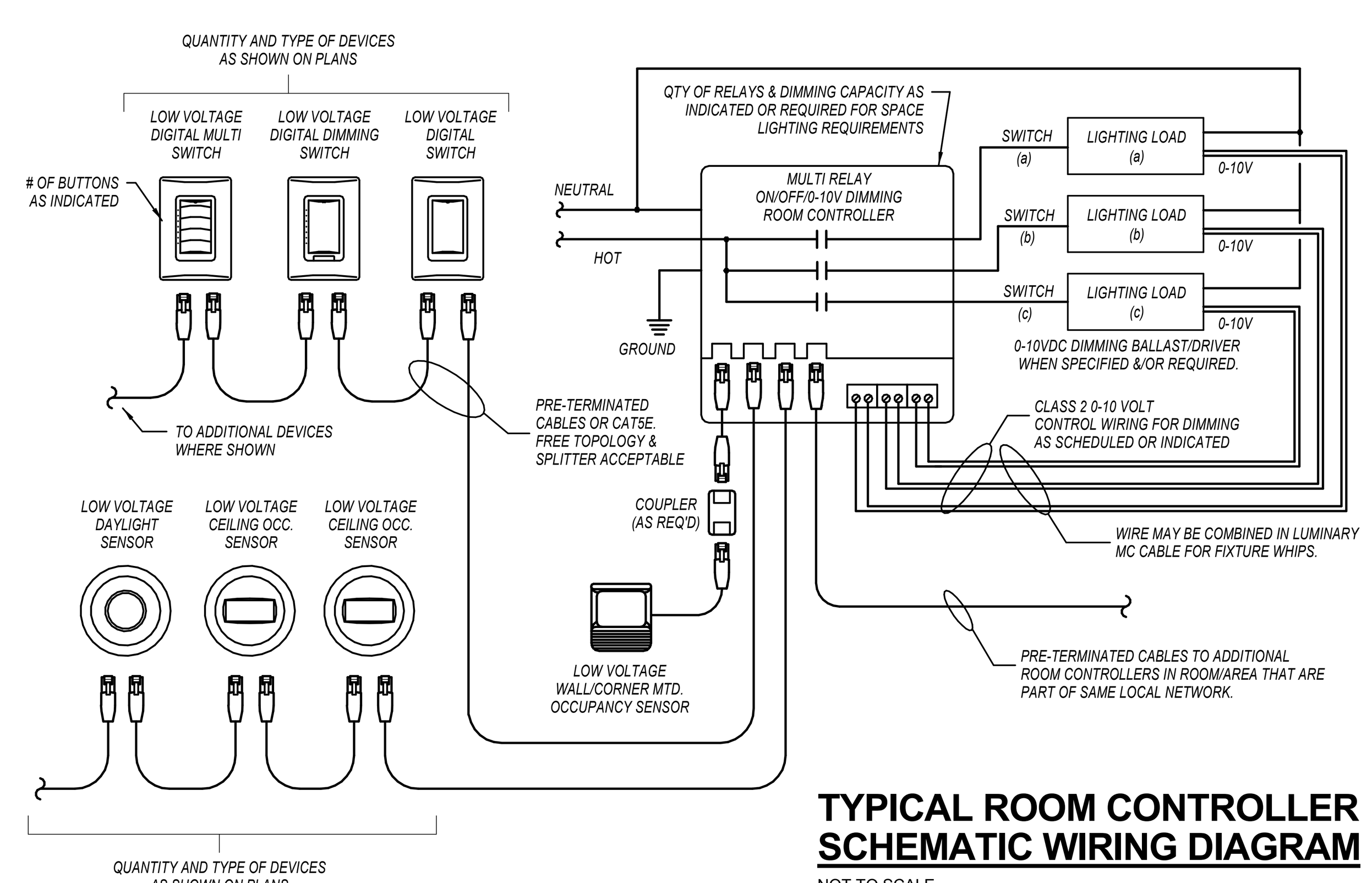
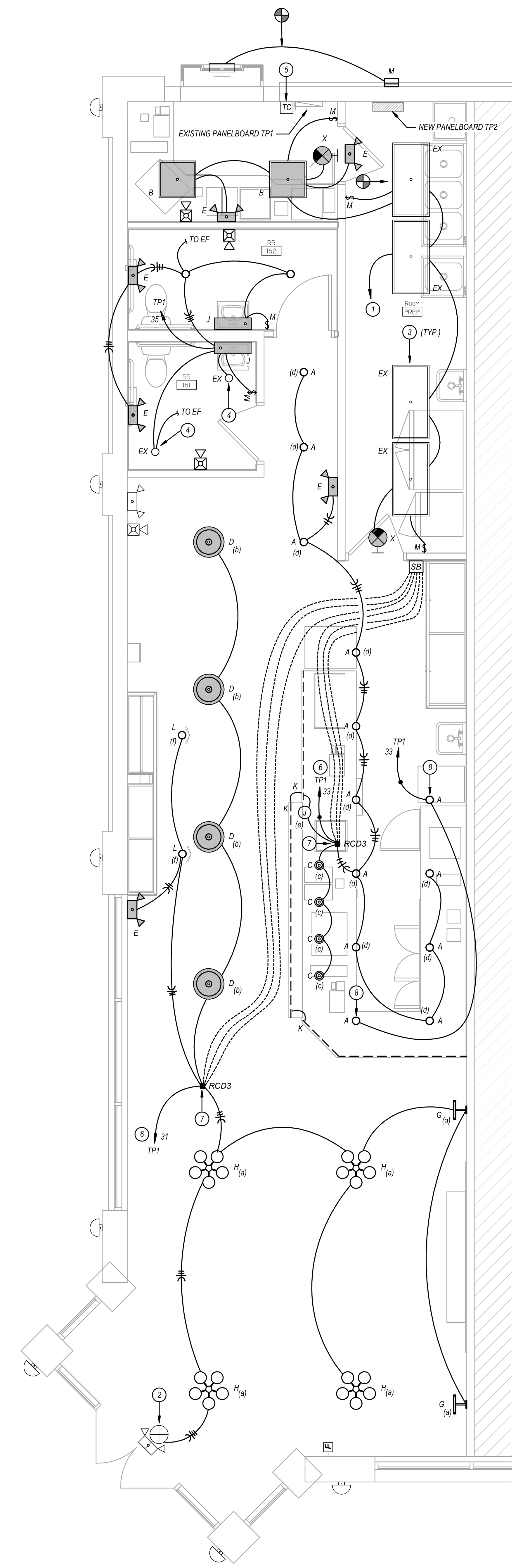


TYPICAL ROOM CONTROLLER SCHEMATIC WIRING DIAGRAM

NOT TO SCALE



FLOOR PLAN - LIGHTING

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

GENERAL LIGHTING NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. LIGHT FIXTURES INDICATED AS EMERGENCY FIXTURES ARE TO FUNCTION AS NIGHT LIGHTS UNLESS SPECIFICALLY SHOWN SWITCHED.

(X) KEYED NOTES - LIGHTING

1 CONNECT TO EXISTING KITCHEN LIGHTING CIRCUIT
2 EXISTING EXIT LIGHT TO REMAIN. RECIRCUIT TO NEW LIGHTS.
3 EXISTING LIGHT TO REMAIN. CIRCUIT NEW LIGHT (TYPE 'B') TO EXISTING CIRCUIT.
4 EXISTING LIGHT TO BE RECIRCUITED TO NEW LIGHTS.
5 EXISTING TIME CLOCK FOR MASTER OFF OF COMMON AREA LIGHTS.
6 ROUTE CIRCUIT THROUGH TIME CLOCK FOR MASTER OFF FUNCTION.
7 COORDINATE DIMMING WIRING AND CONFIGURATION WITH FIXTURES AND ROOM CONTROLLER.
8 DO NOT SWITCH FIXTURE. LIGHT IS TO REMAIN ON AT ALL TIMES.

LIGHTING CONTROLS

SYMBOLS

$\$_{M}$ WALL SWITCH VACANCY SENSOR: PASSIVE INFRARED, 120/277V, WALL SWITCH DECORA STYLE SENSOR. (WATTSTOPPER PW-101, OR EQUAL)

$\$_{LD}$ ROOM CONTROLLER LOW VOLTAGE DIMMING SWITCHES: PUSHBUTTON SWITCHES WITH LED INDICATING LIGHTS. SINGLE GANG IN DECORA STYLE FACEPLATE. (WATTSTOPPER LMDM-101)

RCD# ROOM CONTROLLER: DIGITAL ON/OFF 0-10V DIMMING ROOM CONTROLLER. 120/277V INPUT. # INDICATES NUMBER OF RELAYS (STD 1-3, UNITS SHALL BE GANGED FOR MORE THAN 3 RELAYS/ZONES) (WATTSTOPPER LMRC-200 SERIES OR EQUAL)

TRAINING AND PROGRAMMING

OWNER TRAINING:
- PROVIDE FACTORY REPRESENTATIVE TRAINING TO OWNER FOR EACH LIGHTING CONTROL SYSTEM UTILIZED, INCLUDING PROGRAMMING FOR SCHEDULING AND OPERATION OF EACH ROOM PER OWNER DIRECTION.
- PROVIDE RECORD OF TIME DELAY SETTINGS ON ALL SENSOR DEVICES FOR OWNER USE.

SENSOR ADJUSTMENTS AND SETTINGS:
- SYSTEMS SHALL BE SET/PROGRAMMED TO OPERATE TYPICALLY IN MANUAL ON/AUTO OFF MODE.
  1. SET WALL MOUNTED MOTION SENSOR TO MANUAL ON MODE.
  2. SET POWER PACKS AND ROOM CONTROLLERS CONTROLLED BY MOTION SENSORS TO MANUAL ON AND CONTROL WITH MOMENTARY WALL SWITCH.
- PROVIDE FINAL SETTINGS/ADJUSTMENTS PER OWNER'S DIRECTION.

CONTROLS SEQUENCES

WALL-MOUNTED LINE VOLTAGE SENSORS:
- TURN ON LIGHTS IN ROOM/AREA UPON BUTTON ON SENSOR BEING ACTIVATED BY OCCUPANT.
- TURN OFF LIGHTS AFTER NO MOTION IS DETECTED AND DELAY EXPIRES.

YAEGER ARCHITECTURE

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NUMBER PE-2014007277
PROFESSIONAL ENGINEER
02/17/23
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TRUE NORTH PLAN NORTH

ELECTRICAL - LIGHTING

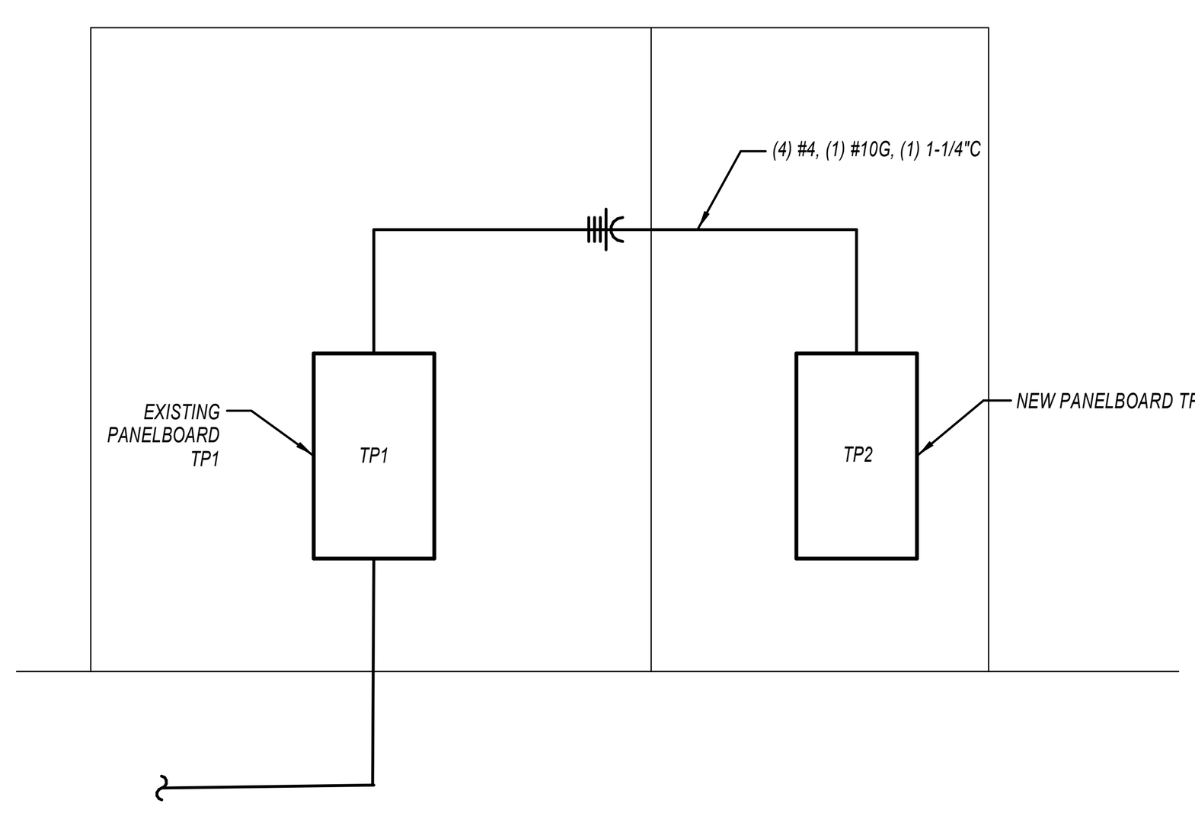
E101

KITCHEN EQUIPMENT CONNECTION SCHEDULE

ITEM	ITEM NAME / DESCRIPTION	CONNECTION	MTG. HT.	VOLTS/PH	AMPS	PANEL	CIRCUIT	WIRE	NOTES
EQ-1	OPEN AIR MERCH	CORD & PLUG	N/A	120/1P	4.2	TP2	1	(2)#12, #12G, 3/4"C	1, 2
EQ-2.1	POS	CORD & PLUG	OVER COUNTER	120/1P	1.5	TP1	13	(2)#12, #12G, 3/4"C	1,2
EQ-2.2	POS	CORD & PLUG	OVER COUNTER	120/1P	1.5	TP2	3	(2)#12, #12G, 3/4"C	1, 2
EQ-4	MICROWAVE	CORD & PLUG	UNDER COUNTER	120/1P	10.0	TP1	38	(2)#12, #12G, 3/4"C	1, 2
EQ-5.1	ESPRESSO MACHINE	CORD & PLUG	OVER COUNTER	208/1P	20.0	TP1	8,10	(2)#12, #12G, 3/4"C	1, 2
EQ-5.2	ESPRESSO MACHINE	CORD & PLUG	OVER COUNTER	208/1P	20.0	TP1	19,21	(2)#12, #12G, 3/4"C	1, 2
EQ-6.1	REFRIGERATED COLD FOOD WELL	CORD & PLUG	OVER COUNTER	120/1P	8.3	TP1	25	(2)#12, #12G, 3/4"C	1, 2
EQ-6.2	REFRIGERATED COLD FOOD WELL	CORD & PLUG	OVER COUNTER	120/1P	8.3	TP2	5	(2)#12, #12G, 3/4"C	1, 2
EQ-9.1	GRINDER	CORD & PLUG	OVER COUNTER	120/1P	15.0	TP1	23	(2)#12, #12G, 3/4"C	1, 2
EQ-9.2	GRINDER	CORD & PLUG	OVER COUNTER	120/1P	15.0	TP2	7	(2)#12, #12G, 3/4"C	1, 2
EQ-9.3	GRINDER	CORD & PLUG	OVER COUNTER	120/1P	15.0	TP1	29	(2)#12, #12G, 3/4"C	1, 2
EQ-9.4	GRINDER	CORD & PLUG	OVER COUNTER	120/1P	15.0	TP1	4	(2)#12, #12G, 3/4"C	1, 2
EQ-13.1	BULK COFFEE BLENDER	CORD & PLUG	OVER COUNTER	120/1P	9.0	TP1	17	(2)#12, #12G, 3/4"C	1, 2
EQ-13.2	BULK COFFEE BLENDER	CORD & PLUG	OVER COUNTER	120/1P	9.0	TP2	6	(2)#12, #12G, 3/4"C	1, 2
EQ-14.1	COFFEE BREWER	CORD & PLUG	OVER COUNTER	120/1P	15.0	TP1	27	(2)#12, #12G, 3/4"C	1, 2
EQ-14.2	COFFEE BREWER	CORD & PLUG	OVER COUNTER	120/1P	15.0	TP2	4	(2)#12, #12G, 3/4"C	1, 2
EQ-15	KEGERATOR	CORD & PLUG	N/A	120/1P	8.3	TP2	14	(2)#12, #12G, 3/4"C	1, 2
EQ-17.1	BLENDER	CORD & PLUG	OVER COUNTER	120/1P	15.0	TP1	12	(2)#12, #12G, 3/4"C	1, 2
EQ-17.2	BLENDER	CORD & PLUG	OVER COUNTER	120/1P	15.0	TP1	14	(2)#12, #12G, 3/4"C	1, 2
EQ-17.3	BLENDER	CORD & PLUG	OVER COUNTER	120/1P	15.0	TP2	8	(2)#12, #12G, 3/4"C	1, 2
EQ-17.4	BLENDER	CORD & PLUG	OVER COUNTER	120/1P	15.0	TP2	10	(2)#12, #12G, 3/4"C	1, 2
EQ-19E	TRIPLE UNDER COUNTER REFRIGERATOR	CORD & PLUG	OVER COUNTER	120/1P	10.0	TP2	12	(2)#12, #12G, 3/4"C	1, 2
EQ-20.1	SINGLE UNDER COUNTER REFRIGERATOR	CORD & PLUG	UNDER COUNTER	120/1P	10.0	TP2	2	(2)#12, #12G, 3/4"C	1, 2
EQ-20.2	SINGLE UNDER COUNTER REFRIGERATOR	CORD & PLUG	UNDER COUNTER	120/1P	10.0	TP2	9	(2)#12, #12G, 3/4"C	1, 2
EQ-21	GEN REC		OVER COUNTER	120/1P	1.5	TP1	13 (W/ EQ2.1)	(2)#12, #12G, 3/4"C	1, 2
EQ-23	ICE MACHINE AND STORAGE BIN	CORD & PLUG	UNDER COUNTER	120/1P	12.0	TP1	24	(2)#12, #12G, 3/4"C	1, 2
EQ-27E.1	REACH IN REFRIGERATOR	CORD & PLUG	N/A	120/1P	10.0	TP1	4	(2)#12, #12G, 3/4"C	1, 2
EQ-27E.2	REACH IN REFRIGERATOR	CORD & PLUG	N/A	120/1P	10.0	TP1	16	(2)#12, #12G, 3/4"C	1, 2

NOTES:

1. PROVIDE RECEPTACLE FOR CONNECTION TO CORD AND PLUG FURNISHED WITH EQUIPMENT.
2. COORDINATE EXACT NEMA CONFIGURATION OF PLUGS AND RECEPTACLES WITH APPROVED KITCHEN EQUIPMENT SUBMITTALS PRIOR TO BEGINNING WORK.



ELECTRICAL RISER DIAGRAM

NOT TO SCALE

EXISTING SINGLE-SECTION PANELBOARD SCHEDULE

PANEL DESIGNATION: **TP1**
MOUNTING: -
LOCATION: -

MAIN LUG AMPS: 400 SCCR RATING (AIC): 22,000
MAIN BREAKER: 250
VOLTAGE: 208/120
PHASE/WIRE: 3Ø, 4W

KEY	DESCRIPTION	PHASE A	PHASE B	PHASE C	C/B TRIP	C/B POLE	CIRCUIT #	CIRCUIT #	C/B POLE	C/B TRIP	PHASE A	PHASE B	PHASE C	DESCRIPTION	KEY
	AUTOMATIC DRIVE WINDOW	600			20	1	1	2	1	20	180			ROOF TOP OUTLET	EX
EX	AC UNIT		4318		50	3	3	4	1	20		1080		EQ-9.4 GRINDER	G
				4318			5	6	1	20			400	REC: WINDOW	EX
		4318					7	8	2	20	1200			EQ-5.1 ESPRESSO MACHINE	G
G	REC: BATHROOMS & HALLWAY		720		20	1	9	10				1200			
G	JCT: HAND DRYER			1800	20	1	11	12	1	20			1800	EQ-17.1 BLENDER	G
G	EQ-2.1 & EQ21	360			20	1	13	14	1	20	1800			EQ-17.2 BLENDER	G
G	JCT: HAND DRYER		1800		20	1	15	16	1	20		1000		EQ-27E.2 REACH IN REF	G
G	EQ-13.1 BULK GRINDER			1080	20	1	17	18	1	20			463	KITCHEN LIGHTS	EX
G	EQ-5.2 ESPRESSO MACHINE	1200			20	2	19	20	2	30	2250			WATER HEATER	EX
			1200				21	22				2250			
G	EQ-9.1 GRINDER			1800	20	1	23	24	1	20			1440	EQ-23 ICE MACHINE	G
G	EQ-6.1 REF COLD FOOD WELL	1000			20	1	25	26	1	20	1000			EQ-27E.3 REACH IN REF	G
G	EQ-14.1 COFFEE BREWER		1800		20	1	27	28	3	60		4780		PANELBOARD TP2	
	EQ-9.3 GRINDER			1080	20	1	29	30					4500		
	LIGHTS:FRONT HOUSE	925			20	1	31	32			6364				
	LIGHTS: BAR + HALL		369		20	1	33	34	2	20		1250		SPACE HEATER EH-1	
	LIGHTS: BATHROOM			202	20	1	35	36					1250		
	MENU BOARD	500			20	1	37	38	1	20	1200			EQ-4 MICROWAVE	
	SPARE		-		20	1	39	40	1	20		-		SPARE	
	SPARE			-	20	1	41	42	1	20			-	SPARE	
	TOTALS	8903	10207	10280							13994	11560	9853	TOTALS	

PANELBOARD SIZING LOAD

LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	1,959	1.25	2,449
RECEPTACLES	37,784	10KVA + 50% REST	23,892
MOTORS	0	1.25 x LARGEST + SUM OF REST	0
AIR CONDITIONING	12,954	1.00	12,954
SPACE HEATING	4,000	0.00	0
HEAT PUMP	0	1.00	0
CONTINUOUS	4,500	1.25	5,625
NON-CONTINUOUS	0	1.00	0
MISC. LOADS 1	3,600	1.00	3,600
		SIZING LOAD:	48,520
		SIZING LOAD (AMPS):	135

CONNECTED PHASE LOADS

PHASE	VA	AMPS
A	22,897	190.7
B	21,767	181.3
C	20,134	167.7
TOTALS	64,797	179.9

REMARKS:

1. EXISTING PANELBOARD TP1
2. EXISTING CIRCUIT BREAKERS MAY BE REUSED WHERE POSSIBLE. PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED.

SINGLE-SECTION PANELBOARD SCHEDULE

PANEL DESIGNATION: **TP2**
MOUNTING: -
LOCATION: -

MAIN LUG AMPS: 125 SCCR RATING (AIC): 22,000
MAIN BREAKER: M.L.O.
VOLTAGE: 208/120
PHASE/WIRE: 3Ø, 4W

KEY	DESCRIPTION	PHASE A	PHASE B	PHASE C	C/B TRIP	C/B POLE	CIRCUIT #	CIRCUIT #	C/B POLE	C/B TRIP	PHASE A	PHASE B	PHASE C	DESCRIPTION	KEY
G	EQ-1 OPEN AIR MERCH	504			20	1	1	2	1	20	1000			EQ-20.1 SINGLE UNDER CTR REF	G
G	EQ-2.2 POS		180		20	1	3	4	1	20		1800		EQ-14.2 COFFEE BREWER	G
G	EQ-6.2 REF COLD WELL			1000	20	1	5	6	1	20			1000	EQ-13.2 BULK COFFEE GRINDER	G
G	EQ-9.2 GRINDER	1800			20	1	7	8	1	20	1800			EQ-17.3 BLENDER	G
G	EQ-20.2 SINGLE UNDER CTR REF		1000		20	1	9	10	1	20		1800		EQ-17.4 BLENDER	G
	FIREPLACE HEATER			1500	20	1	11	12	1	20			1000	EQ-19E TRIPLE UNDER CNT REF	G
	REC: GENERAL	1080			20	1	13	14	1	20	180			EQ-15 KEGERATOR	G
	-		0		-	1	15	16	1	-		-		-	
	-			-	-	1	17	18	1	-			-	-	
	-	-			-	1	19	20	1	-	-			-	
	-		-		-	1	21	22	1	-		-		-	
	-			-	-	1	23	24	1	-			-	-	
	TOTALS	3384	1180	2500							2980	3600	2000	TOTALS	

PANELBOARD SIZING LOAD

LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	0	1.25	0
RECEPTACLES	14,144	10KVA + 50% REST	12,072
MOTORS	0	1.25 x LARGEST + SUM OF REST	0
AIR CONDITIONING	0	0.00	0
SPACE HEATING	1,500	1.00	1,500
HEAT PUMP	0	1.00	0
CONTINUOUS	0	1.25	0
NON-CONTINUOUS	0	1.00	0
MISC. LOADS 1	0	1.00	0
		SIZING LOAD:	13,572
		SIZING LOAD (AMPS):	38

CONNECTED PHASE LOADS

PHASE	VA	AMPS
A	6,364	53.0
B	4,780	39.8
C	4,500	37.5
TOTALS	15,644	43.4

REMARKS:

1. EATON POW-R-LINE 1X OR EQUAL.

PANELBOARD BREAKER KEYED NOTES

- G — FURNISH GFCI-PROTECTED BREAKER.
- EX — EXISTING CIRCUIT BREAKER.

EXISTING PANELBOARD WORK

1. ALL BREAKERS IN EXISTING PANELBOARDS ARE EXISTING TO REMAIN UNLESS INDICATED OTHERWISE ON THE PANELBOARD SCHEDULES.
2. EXISTING BREAKERS, CIRCUITS, AND LOADS ARE SHOWN LIGHT. NEW LOADS, BREAKERS, AND CIRCUITS ARE SHOWN DARK.
3. EXISTING LOAD VALUES ARE ASSUMED AND/OR BASED OFF EXISTING DRAWINGS.
4. AVAILABILITY OF CIRCUITS IN EXISTING PANELBOARDS IS BASED ON FIELD OBSERVATION AND EXISTING CIRCUIT DIRECTORIES. CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND PROVIDE WORK ACCORDING TO INTENTION OF CONTRACT DOCUMENTS. ACTUAL CIRCUITS AVAILABLE DUE TO DEMOLITION, CIRCUITS THAT ARE REQUIRED TO REMAIN, AND PANELBOARD AVAILABILITY MAY BE DIFFERENT THAN INDICATED.
5. FAULT CURRENT RATINGS AND/OR TYPES OF NEW BREAKERS IN EXISTING PANELBOARDS SHALL MATCH THE TYPE AND AIC RATING OF THE EXISTING BREAKERS IN ORDER TO MAINTAIN THE FAULT CURRENT RATING OF THE PANELBOARD.
6. PROVIDE NEW TYPED CIRCUIT DIRECTORIES FOR ALL PANELBOARDS WITH UPDATED CIRCUIT INFORMATION AS SHOWN AND/OR FIELD-VERIFIED.

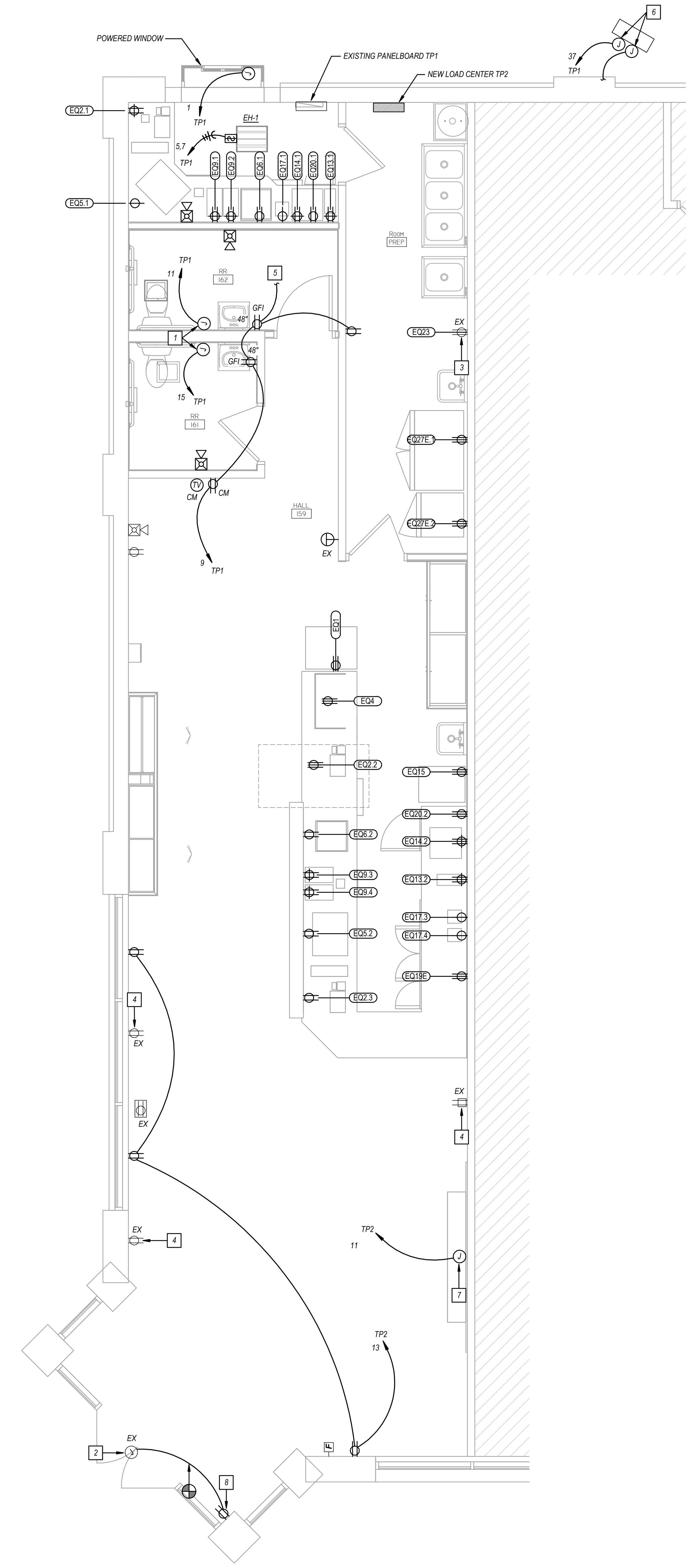
GENERAL POWER NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. COORDINATE EXACT NEMA CONFIGURATIONS OF RECEPTACLES SERVING EQUIPMENT WITH EXACT EQUIPMENT BEING FURNISHED.
3. EXACT MECHANICAL EQUIPMENT LOCATIONS MAY NOT BE SHOWN FOR CLARITY. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, DUCT DETECTORS, ETC. WITH MECHANICAL DRAWINGS AND CONTRACTOR.
4. COORDINATE EXACT LOCATIONS OF SMOKE DETECTORS WITH CEILING FANS, HVAC DIFFUSERS, SPRINKLER HEADS, ETC. PER NFPA REQUIREMENTS.

X KEYED NOTES - POWER

1 MAINTIAN EXISTING HAND DRYER AND CIRCUITS.
2 MAINTAIN EXISTING SIGNAGE CIRCUIT AND VERIFY CONTROL VIA EXISTING TIMECLOCK. COORDINATE EXACT CONNECTION WITH OWNERS NEW SIGNAGE.
3 RECIRCUIT EXISTING RECEPTACLE AS DEDICATED CIRCUIT.
4 EXITSTING DEVICE TO REMAIN.
5 RECONNECT TO PREVIOUS CIRCUIT
6 PROVIDE (1) 1" C FOR MENU CIRCUIT, (1) 1 1/2" C FOR COMMUNICATION, (1) 1" C FOR COMMUNICATION FROM STREET, AND (1) 2" C FOR DATA OR HDMI CONNECTION. COORDINATE WITH MENU BOARD REQUIREMENTS. VERIFY EXACT LOCATION WITH ARCHITECTURAL SITE PLAN. CUT & PATCH PAVEMENT AS NECESSARY.
7 COORDINATE ELECTRICAL CONNECTION PER FIREPLACE REQUIREMENTS.
8 RECEPTACLE FOR OPEN SIGN. VERIFY EXACT LOCATION WITH OWNER.

Darren E. Thrasher - Engineer
MO# PE-2014007277



FLOOR PLAN - POWER

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

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MO State Certificate of Authority #E-2002020886

TRUE NORTH
PLAN NORTH

PROJECT NO:	22056
DATE:	2023-02-17
DRAWN BY:	Author
CHECKED BY:	Checker
CHECKED BY:	Designer

△	REVISED DATE	DESCRIPTION

ELECTRICAL - POWER

E201

SHEET SIZE: ARCH E1 30" x 42"