MIDLANDS TECHNICAL COLLEGE

MTC - SUITE RENOVATIONS IN LRC AT BELTLINE CAMPUS

316 S BELTLINE BOULEVARD | COLUMBIA, SC
ARCHITECT'S PROJECT NUMBER 22.301.00
STATE PROJECT NUMBER H59-N187-CL

AUGUST 26, 2022

CONSTRUCTION DOCUMENTS

LIFE SAFETY PLAN LEGEND

—·—	ONE HOUR FIRE BARRIER
200' ●-----►	ACTUAL EGRESS PATH AND TRAVEL DISTANCE - 250' MAX FOR FULLY SPRINKLED BUILDING
○ FE	BRACKET MOUNTED FIRE EXTINGUISHER
▭ FEC	FIRE EXTINGUISHER CABINET
⧓	EXIT LIGHT WITH ARROW DIR. (SEE REFLECTED CEILING PLANS AND ELECTRICAL)
1 HR	1 HR. RATED FIRE DOOR ASSEMBLY

TYPE OF EGRESS COMPONENT

EXIT ACCESS
218 LOAD < 306 CAPACITY 48" DOOR 34" / 0.15" = CAPACITY

EGRESS COMPONENT WIDTH AND CALCULATED CAPACITY

ACTUAL OCCUPANCY LOAD AT EGRESS COMPONENT

🟩	ASSEMBLY - UNCONCENTRATED (TABLES AND CHAIRS) - 15 NET	▨	BUSINESS - 150 GROSS
▨	AREA OF WORK NOT IN SCOPE		

EXISTING CODE INFORMATION

A. EXISTING SEISMIC CATEGORY: "C"

B. EXISTING CONSTRUCTION CLASSIFICATION: IIB

C. EXISTING OCCUPANCY GROUP: ASSEMBLY A-3 PRIMARY

A. EXISTING BUILDING CONSTRUCTION DATES:
 a. BUILT IN 2017 - FULLY SPRINKLERED

PROJECT TEAM

ARCHITECT
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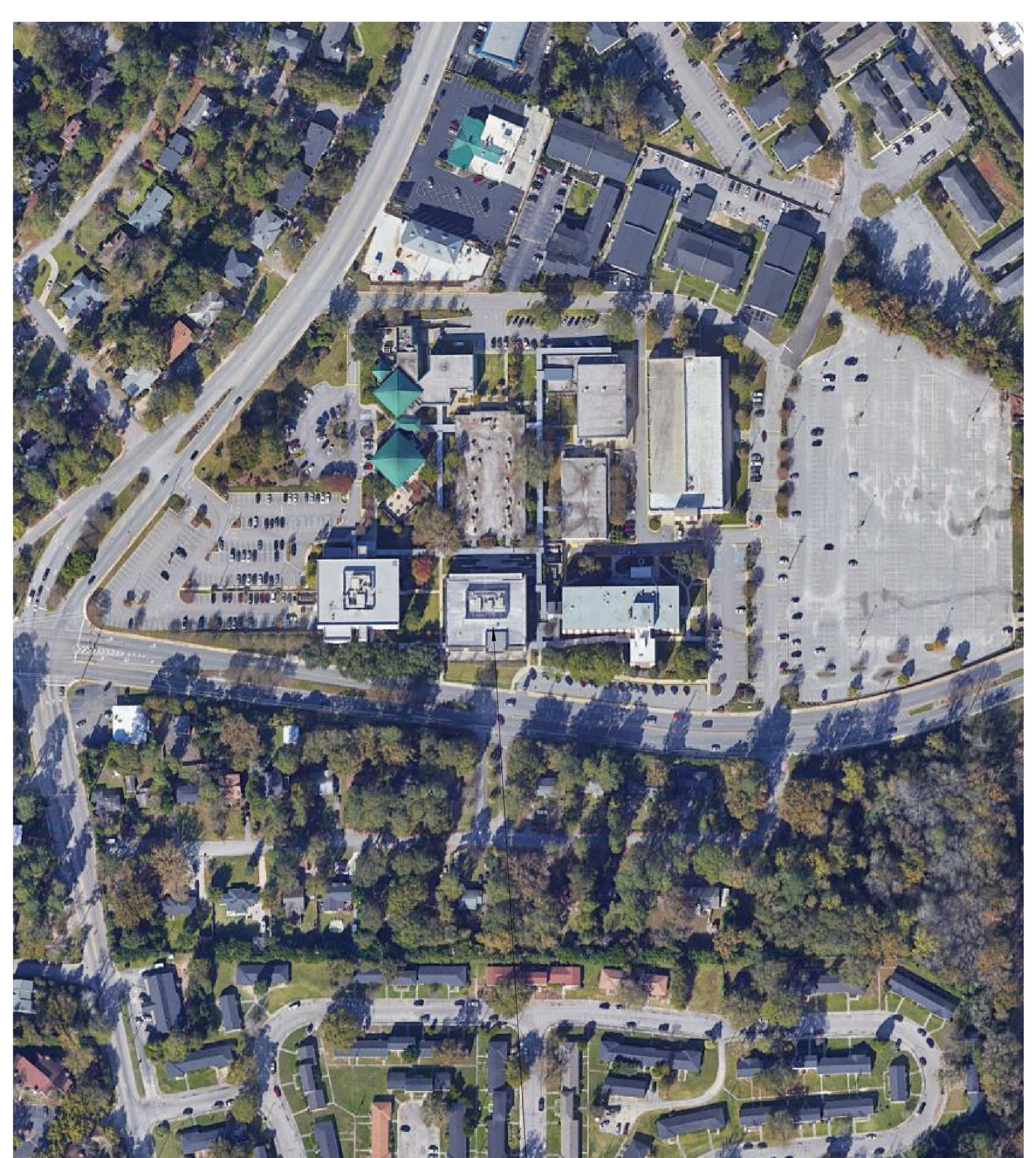
INDEX OF DRAWINGS

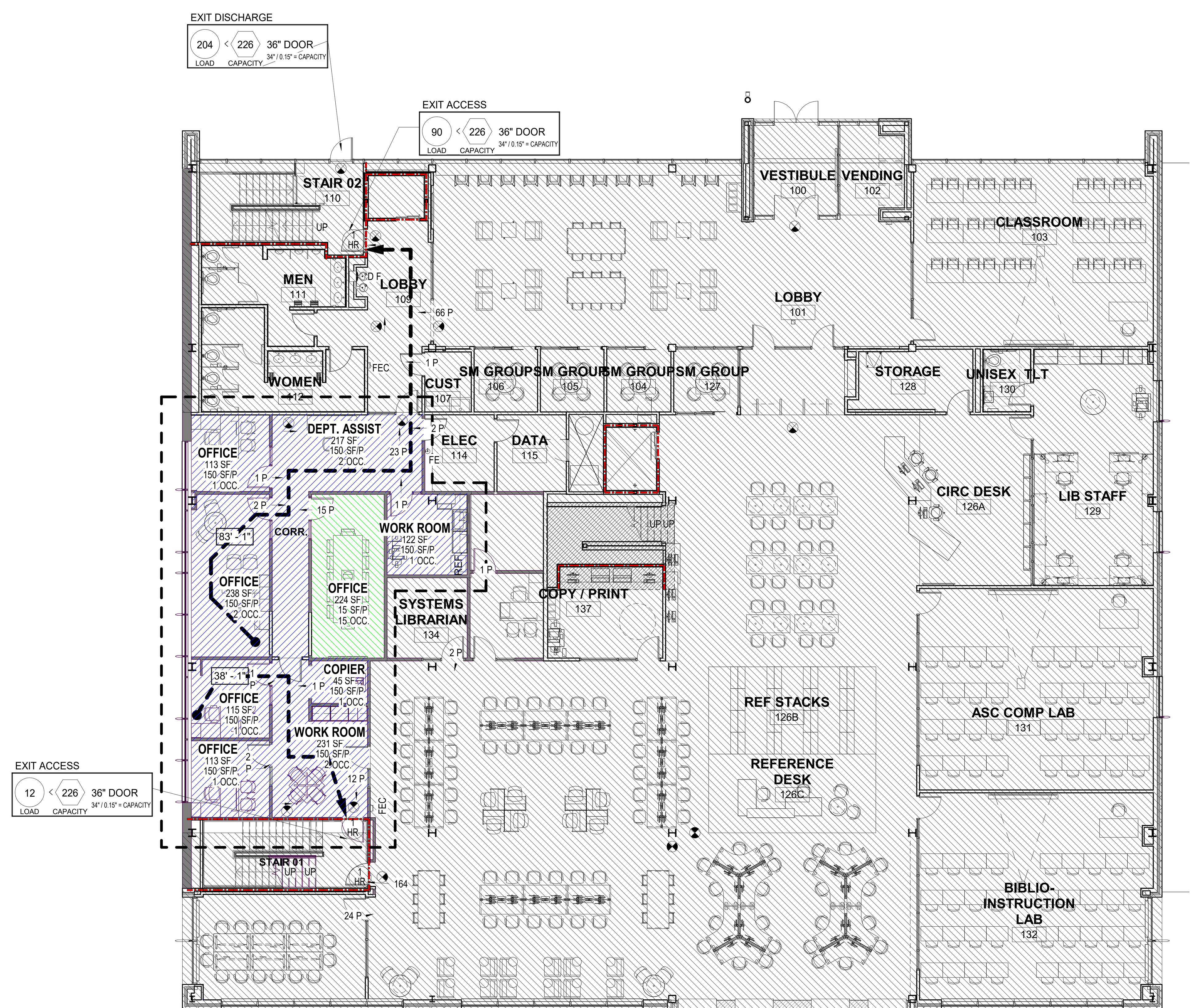
AREA MAP

PROJECT SITE

SITE MAP



PROJECT SITE



EXIT DISCHARGE
204 LOAD < 226 CAPACITY 36" DOOR 34" / 0.15" = CAPACITY
EXIT ACCESS
90 LOAD < 226 CAPACITY 36" DOOR 34" / 0.15" = CAPACITY
EXIT ACCESS
12 LOAD < 226 CAPACITY 36" DOOR 34" / 0.15" = CAPACITY
STAIR 02 110
MEN 111
WOMEN 112
LOBBY 109
CUST 107
SM GROUP 106
SM GROUP 105
SM GROUP 104
SM GROUP 127
VESTIBULE 100
VENDING 102
CLASSROOM 103
LOBBY 101
STORAGE 128
UNISEX TLT 130
DEPT. ASSIST 217 SF 150 SF/P 2 OCC.
ELEC 114
DATA 115
OFFICE 113 SF 150 SF/P 1 OCC.
CORR.
WORK ROOM 122 SF 150 SF/P 1 OCC.
OFFICE 238 SF 150 SF/P 2 OCC.
OFFICE 224 SF 15 SF/P 15 OCC.
SYSTEMS LIBRARIAN 134
COPY / PRINT 137
CIRC DESK 126A
LIB STAFF 129
OFFICE 115 SF 150 SF/P 1 OCC.
COPIER 45 SF 150 SF/P 1 OCC.
WORK ROOM 231 SF 150 SF/P 2 OCC.
OFFICE 113 SF 150 SF/P 1 OCC.
STAIR 01
83' - 1"
38' - 1"
REF STACKS 126B
REFERENCE DESK 126C
ASC COMP LAB 131
BIBLIO-INSTRUCTION LAB 132

1 G-000 RENOVATION AREA LIFE SAFETY PLAN
SCALE: 3/32" = 1'-0"

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A/E SEAL
STATE OF SOUTH CAROLINA
BARBARA HALLER
Columbia, SC
6198
REGISTERED ARCHITECT

CORPORATE SEAL
STATE OF SOUTH CAROLINA
QUACKENBUSH ARCHITECTS + PLANNERS LLC
Columbia, SC
No. 100028
REGISTERED ARCHITECTS

PROJECT TITLE
MTC - SUITE RENOVATIONS IN LRC AT BELTLINE CAMPUS
MIDLANDS TECHNICAL COLLEGE
316 S BELTLINE BOULEVARD
COLUMBIA, SC

PHASE
CONSTRUCTION DOCUMENTS

ISSUE DATE	8.26.22
PROJECT NO.	22.301.00
STATE PROJECT NO.	H59-N187-CL
REVISION	DATE

TITLE
COVER SHEET, INDEX OF DRAWINGS

SHEET NO
G-000

ABBREVIATIONS

A	
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AP(R)	ACCESS PANEL (FIRE RATED)
AP(N)	ACCESS PANEL (NOT RATED)
AWC	ACOUSTIC WALLCOVERING
AP	ACOUSTICAL PANEL
APC	ACOUSTICAL PANEL CEILING
ADD'L	ADDITIONAL
ADJ	ADJACENT
ADJ	ADJUSTABLE
AGG	AGGREGATE
AC	AIR CONDITION(ING)
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ACM	ALUMINUM COMPOSITE MATERIAL
AMT	AMOUNT
AB	ANCHOR BOLT(S)
ANOD	ANODIZED
APPL	APPLICATION
APP'D	APPROVED
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
A/E	ARCHITECT/ENGINEER
ASPH	ASPHALT
@	AT
A/V	AUDIO/VISUAL
AVC	AUDIO/VISUAL CONTRACT(OR)
ADPP	AUTOMATIC DOOR PRESSURE PLATE
AUX	AUXILIARY
AVG	AVERAGE
B	
BB	BAMBOO
B CAB	BASE CABINET
B PL	BASE PLATE OR BEARING PLATE
BSMT	BASEMENT
BM	BEAM
BRG	BEARING
BFF	BELOW FINISH FLOOR
BMK	BENCH MARK
BT	BENT
BTWN	BETWEEN
BITUM	BITUMINOUS
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
BW	BOTH WAYS
BOT	BOTTOM
B/	BOTTOM OF
BOS	BOTTOM OF STEEL
B/W	BOTTOM OF WALL
BR	BRICK
BRP	BRICK PAVERS
BTU	BRITISH THERMAL UNIT
BRZ	BRONZE
BLDG	BUILDING
BEJ	BUILDING EXPANSION JOINT
BU	BUILT-UP
BUR	BUILT-UP ROOFING
BLKHD	BULKHEAD
BG	BUMPER GUARD / CRASH RAIL
C	
CAB	CABINET
CH	CABINET HEATER
CPT	CARPET
CPTT	CARPET TILE
CI	CAST IRON
CIP	CAST IRON PIPE
CIP	CAST-IN-PLACE
CB	CATCH BASIN
CLG	CEILING
CEM	CEMENT
CBB	CEMENTITIOUS BACKER BOARD
CTR	CENTER
CL	CENTER LINE
CG	CENTER OF GRAVITY
C/C	CENTER TO CENTER
CER	CERAMIC
CMT	CERAMIC MOSAIC TILE
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CWT	CERAMIC WALL TILE
CR	CHAIR RAIL
CHBD	CHALK BOARD
CHAM	CHAMFER
CP	CLAY PAVERS
CO	CLEAN OUT
CLR	CLEAR(ANCE)
CL	CLOSET
CTG	COATING
CFMF	COLD FORMED METAL FRAMING
CW	COLD WATER
COL	COLUMN
CWP	COMPOSITE WALL PANEL
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONN	CONNECTION
CONST	CONSTRUCTION
CJ	CONSTRUCTION / CONTROL JOINT
CONT	CONTINUOUS
CONTR(S)	CONTRACTOR(S)
CK	CORK
CNGD	CORNER GUARD
CG	CORNER GUARD
CMP	CORRUGATED METAL PIPE
CTR	COUNTER
CSK	COUNTERSUNK
CRSE	COURSE(S)
CF	CUBIC FOOT
CY	CUBIC YARD
D	
DL	DEAD LOAD
DK	DECK
DP	DEEP
DEFL	DEFLECTION
DEG	DEGREE
DMSG	DEMISING
DEMO	DEMOLITION
DMNT	DEMOUNTABLE
d	DEPTH
DTL	DETAIL
DIAG	DIAGONAL
DIA	DIAMETER
DIAPH	DIAPHRAGM
DIM	DIMENSION
DEFS	DIRECT APPLIED EXTERIOR FINISH SYSTEM
DISP	DISPENSER
DO	DITTO
DIV	DIVISION
DR	DOOR / DRAIN
DBL	DOUBLE
DWL(S)	DOWEL(S)
DN	DOWN
DL	DOWNLEADER
DS	DOWNSPOUT
DWR	DRAWER
DWG	DRAWING
DF	DRINKING FOUNTAIN
DSP	DRY STANDPIPE
E	
EA	EACH
EF	EACH FACE
ES	EACH SIDE
EW	EACH WAY
E	EAST
EO	EDGE OF
EWC	ELECTRIC WATER COOLER
ELEC	ELECTRIC(AL)
EC	ELECTRICAL CONTRACT(OR)
EL	ELEVATION ABOVE DATUM OR ELEVATION VIEW OF WALL
ELEV	ELEVATOR / ELEVATION
EMB	EMBEDMENT
EMER	EMERGENCY
ENAM	ENAMEL
ENCL	ENCLOSURE

ENG'R	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EJ	EXPANSION JOINT
EXPD	EXPOSED
EXP STRUCT	EXPOSED STRUCTURE
EXT	EXTERIOR
EIFS	EXTERIOR INSULATION FINISH SYSTEM
F	
FWC	FABRIC WALL COVERING
FAB	FABRICATED
FOC	FACE OF CONCRETE / CURB
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FFIN	FACTORY FINISH
FS	FAR SIDE
FGB	FIBER GYPSUM BOARD
FRP	FIBERGLASS REINFORCED POLYESTER PANEL
FV	FIELD VERIFY
FF	FILTER FABRIC
FIN FLR	FINISH FLOOR
FIN GR	FINISH GRADE
FO	FINISH OPENING
FIN	FINISH(ED)
FDC	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FE	FIRE EXTINGUISHER
FEB	FIRE EXTINGUISHER W/ BRACKET
FEC	FIRE EXTINGUISHER W/ CABINET
FHR	FIRE HOSE AND RACK
FHC	FIRE HOSE CABINET
FH	FIRE HYDRANT
FP	FIRE PROOFING
FR	FIRE RATED, FIRE RESISTANT, FIRE RETARDANT TREATED
FIXT	FIXTURE
FLASH	FLASHING
FLR	FLOOR
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
F/F	FLOOR TO FLOOR
FSE	FOOD SERVICE EQUIPMENT
FSEC	FOOD SERVICE EQUIPMENT CONTRACT(OR)
FT (')	FOOT OR FEET
FTG	FOOTING
FDN	FOUNDATION
FH	FULL HEIGHT
FS	FULL SIZE
FT	FULLY TEMPERED (GLASS)
FURN	FURNITURE, FURNISH (ED)
FURR	FURRRING
G	
GALV	GALVANIZED
GA	GAUGE/GAGE
GEN	GENERAL
GC	GENERAL CONTRACT(OR)
GDR	GIRDER(S)
GL BLK	GLASS BLOCK
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS OR GLAZING
GT	GLASS TILE
GLZD	GLAZED
GT	GLAZED TILE
GWT	GLAZED WALL TILE
GB	GRAB BAR, GRADE BEAM
GR	GRADE
GRD	GRADE
GROM	GROMMET
GND	GROUND
GR	GROUT
GR	GUARDRAIL
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GB	GYPSUM BOARD
GRG	GYPSUM FIBER REINFORCED GYPSUM
GSB	GYPSUM SHEATHING BOARD
GWB	GYPSUM WALL BOARD
H	
HCP	HANDICAP(PED)
HR	HANDRAIL
HDBD	HARDBOARD
HDWR	HARDWARE
HDWD	HARDWOOD
HW	HARDWOOD FLOORING
HD	HEAD
HTG	HEATING
HC	HEATING CONTRACT(OR)
HVAC	HEATING, VENTING, AIR CONDITIONING
HT	HEIGHT
h or H	HIGH
HP	HIGH POINT
HS	HIGH STRENGTH
HSB	HIGH STRENGTH BOLT
HM	HOLLOW METAL
HK	HOOK
HORIZ	HORIZONTAL
HB	HOSE BIB
HW	HOT WATER
HWH	HOT WATER HEATER
HR	HOUR
I	
ILLUM	ILLUMINATED
IN	INCH(ES)
INCL	INCLUDE(S)
INFO	INFORMATION
ID	INSIDE DIAMETER
IF	INSIDE FACE
INSP	INSPECT
INST	INSTALL, INSTALLED, INSTALLATION
IG	INSULATED GLASS
ITWPS	INSULATING TRANSLUCENT WALL PANEL SYSTEM
INSUL	INSULATION (INSULATED)
INT	INTERIOR
INV	INVERT
I.J.	ISOLATION JOINT
J	
JAN	JANITOR
JT	JOINT
JST	JOIST
J.B.	JUNCTION BOX
K	
KP	KICK PLATE
KVA	KILOVOLT- AMPERE
KW	KILOWATT
K	KIP
KLF	KIPS PER LINEAR FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
KIT	KITCHEN
KS	KNEE SPACE
KO	KNOCK OUT
K (KIP)	THOUSAND POUNDS
L	
LAM	LAMINATED
LAM GL	LAMINATED GLASS
LS	LANDSCAPE
LC	LANDSCAPE CONTRACT(OR)
LAT	LATERAL
LAV	LAVATORY
LL	LEAD LINED, LIVE LOAD
LF	LEFT
LH	LEFT HAND
L	LENGTH, LONG
LT	LIGHT
LGT GA	LIGHT GAUGE STRUCTURAL FRAMING
LTG	LIGHTING
LW	LIGHTWEIGHT
LF	LINEAR FEET
LIN	LINOLEUM
LTL	LINTEL
LL	LIVE LOAD

LOC	LOCATE, LOCATED, LOCATION
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LVR	LOUVER
LP	LOW POINT
LP	LOW POINT, LIGHT POLE
LVT	LUXURY VINYL TILE
LB	POUND
LB/FT	POUND PER FOOT
M	
MACH	MACHINE
MAINT	MAINTENANCE
MH	MANHOLE
MFR	MANUFACTURER, MANUFACTURED
MF	MANUFACTURERS FINISH
MB	MARKER BOARD
MAS	MASONRY
MCJ	MASONRY CONTROL JOINT
MO	MASONRY OPENING
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MED	MEDIUM
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MTL	METAL
MCM	METAL COMPOSITE MATERIAL
MP	METAL PANEL
MEZ	MEZZANINE
MPH	MILES PER HOUR
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MR	MOISTURE RESISTANT
MRGB	MOISTURE RESISTANT GYPSUM BOARD
MLDG	MOLDING
MON	MONUMENT
MTD	MOUNTED
MUL	MULLION
N	
NF	NEAR FACE
NS	NEAR SIDE
NSF	NET SQUARE FEET
NRC	NOISE REDUCTION COEFFICIENT
NOM	NOMINAL
NS	NON SHRINK
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO (#)	NUMBER
O	
OFF	OFFICE
OC	ON CENTER
OPNG	OPENING
OPR	OPERABLE
OPP	OPPOSITE
OH	OPPOSITE HAND
ORIG	ORIGINAL
ORN	ORNAMENTAL
OZ	OUNCE
O/O	OUT TO OUT
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE, OVERFLOW
OA	OVERALL
OAL	OVERALL LENGTH
ORD	OVERFLOW ROOF DRAIN
OS	OVERFLOW SCUPPER
OH	OVERHEAD
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
P	
P	PAINT
PTM	PAINT TO MATCH
PTD	PAINTED
PR	PAIR
PNL	PANEL
PJ	PANEL JOINT
PNLG	PANELING
PTD	PAPER TOWEL DISPENSER
PART BD	PARTICLE BOARD
PTN	PARTITION
PTN	PARTITION
PVMT	PAVEMENT
PERF	PERFORATED
PERIM	PERIMETER
PLAS	PLASTER
P LAM	PLASTIC LAMINATE
PL	PLATE, PROPERTY LINE
PLUMB	PLUMBING
PC	PLUMBING CONTRACT(OR)
PLYWD	PLYWOOD
PT	POINT
POL	POLISHED
PVC	POLYVINYL CHLORIDE
PORC	PORCELAIN
PCF	POUNDS PER CUBIC FOOT
PCI	POUNDS PER CUBIC INCH
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PP	POWER POLE
P/C	PRECAST
PCST	PRECAST
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PT	PRESSURE TREATED
PROP	PROPOSED
PA	PUBLIC ADDRESS
Q	
QLTY	QUALITY
QTY	QUANTITY
QT	QUARRY TILE
R	
RP	POLYESTER ACRYLIC RESIN PANEL
RAD	RADIATOR
R, RAD	RADIUS
RWC	RAIN WATER CONDUCTOR
RECPT	RECEPTACLE
REF	REFERENCE
RCP	REFLECTED CEILING PLAN
REF	REFRIGERATOR
REINF	REINFORCE(D)(ING)(MENT)
RFC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
REM	REMOVE, REMOVABLE, REMOVED
REQD	REQUIRED
REQTS	REQUIREMENTS
RF	RESILIENT FLOORING
RS	RESINOUS
RA	RETURN AIR
REV	REVISION, REVISED
RGT	RIGHT
RH	RIGHT HAND
ROW	RIGHT OF WAY
R	RISERS (STAIR)
RD	ROOF DRAIN
REJ	ROOF EXPANSION JOINT
RTU	ROOF TOP UNIT
RC	ROOFING CONTRACT(OR)
RM	ROOM
RO	ROUGH OPENING
RUB	RUBBER
RB	RUBBER BASE
RT	RUBBER TILE FLOORING
S	
SAN	SANITARY
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
SCHED	SCHEDULE
SCH	SCHEDULE
SCHED	SCHEDULE
SLD	SEALED

SECT	SECTION
SEP	SEPARATE, SEPARATED, SEPARATION
SS	SERVICE SINK
SHTG	SHEATHING
SHT	SHEET
SR	SHEET RUBBER FLOORING
SV	SHEET VINYL FLOORING
SHWR	SHOWER
SIM	SIMILAR
SGL	SINGLE
SPR	SINGLE- PLY ROOFING
S CAB	SINK CABINET
SW	SLATWALL
SLV	SLEEVE
SLD	SLIDING
SD	SOAP DISPENSER
SCW	SOLID CORE WOOD
SSM	SOLID SURFACE MATERIAL
SS	SOLID SURFACE MATERIAL
SAB	SOUND ATTENUATION BLANKET
STC	SOUND TRANSMISSION CLASS
S	SOUTH
SPA	SPACE(S)
SPEC	SPECIFICATIONS
SPEC'D	SPECIFIED
SPF	SPLIT FACE
SPRK	SPRINKLER
SC	SPRINKLER CONTRACT(OR)
SQ	SQUARE
SF	SQUARE FOOT, SQUARE FEET
SI	SQUARE INCH
SY	SQUARE YARD
ST	STAIN
STM	STAIN TO MATCH
SST	STAINLESS STEEL
STD	STANDARD
SP	STANDPIPE
STL	STEEL
STIFF	STIFFENER
STOR	STORAGE
SD	STORM DRAIN
STRUCT	STRUCTURAL
SBFL	SUB-FLOOR
SUB	SUBSTITUTE
SA	SUPPLY AIR
SURF	SURFACE
SM	SURFACE MOUNTED
SUSP	SUSPEND(ED)
SYM	SYMMETRY/SYMMETRICAL
T	
TB	TACK BOARD
TS	TACK SURFACE / TACK STRIP
TF	TACKABLE FABRIC
T CAB	TALL CABINET
TAP	TAPERED
TELCOM	TELECOMMUNICATIONS
TC	TELECOMMUNICATIONS CONTRACT(OR)
TEL	TELEPHONE
TV	TELEVISION
TEMP	TEMPERATURE
T & S	TEMPERATURE & SHRINKAGE
TMP GL	TEMPERED GLASS
TEMP	TEMPORARY
TZ	TERRAZZO
TT	TERRAZZO TILE
THK	THICK
TH	THRESHOLD
THRU	THROUGH
TLT	TOILET
TA	TOILET ACCESSORY
TPD	TOILET PAPER DISPENSER
TPTN	TOILET PARTITION
T&G	TONGUE AND GROOVE
T&B	TOP & BOTTOM
T/	TOP OF
T/CONC	TOP OF CONCRETE
T/FTG	TOP OF FOOTING
T/JST	TOP OF JOIST
T/MAS	TOP OF MASONRY
T/S	TOP OF STEEL, STRUCTURE OR SLAB
T/WALL	TOP OF WALL
TR	TRASH RECEPTACLE
T	TREAD
TS	TUBE STEEL
TYP	TYPICAL
U	
UC	UNDER-CUT
U/S	UNDERSIDE OF
UL	UNDERWRITER'S LABORATORY
UNFIN	UNFINISHED
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
V	
VAC	VACUUM
VB	VALVE BOX
VB	VAPOR BARRIER
VAV	VARIABLE AIR VOLUME
VAR	VARIES
VARN	VARNISH
VTR	VENT THROUGH ROOF
VENT	VENTILATION (OR VENTILATOR)
VERT	VERTICAL
VEST	VESTIBULE
VAT	VINYL ASBESTOS TILE
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VP	VINYL PLANK FLOORING
VT	VINYL TILE
VWC	VINYL WALLCOVERING
VIT	VITREOUS
VOL	VOLUME
W	
WH	HOT WATER HEATER
WL	WALL
W CAB	WALL CABINET
WTR	WATER
WC	WATER CLOSET
WR	WATER RESISTANT
WS	WATER STOP
W	WATER, WEST
W/C	WATER-CEMENT RATIO
WFT	WATERPROOF FLOOR TOPPING
WPRF	WATERPROOFING
WS	WEATHERSTRIPPING
WT	WEIGHT / WATER TIGHT
WWF	WELDED WIRE FABRIC
WF	WIDE FLANGE BEAM
w	WIDE, WIDTH
WL	WIND LOAD
WIN	WINDOW
WM	WIRE MESH
WMP	WIRE MESH PARTITION
WR	WIRE RIB
W/	WITH
W/O	WITHOUT
WD	WOOD
WB	WOOD BASE
WP	WOOD PANEL
WP	WORKING POINT
WI	WROUGHT IRON
Y	
YD	YARD
Z	
ZN	ZONE

SYMBOLS

DRAWING REFERENCE

DETAIL TITLE
DETAIL NUMBER
1 / A-101 DRAWING TITLE
SCALE: 1/8" = 1'-0"
SHEET NUMBER WHERE DETAIL IS SHOWN

ENLARGED PLAN / PLAN DETAIL REFERENCE

DETAIL NUMBER
SIM
1 / A101
SHEET NUMBER WHERE DETAIL IS SHOWN

SIM — SIMILAR CONDITION
OH — OPPOSITE HAND
OPP — OPPOSITE HAND
ROT — ROTATED CONDITION

ELEVATION REFERENCE - EXTERIOR

SHEET NUMBER WHERE ELEVATION IS SHOWN
A-101
ELEVATION NUMBER
1, 2, 3, 4 / A-101

SIM — SIMILAR CONDITION
OH — OPPOSITE HAND
OPP — OPPOSITE HAND
ROT — ROTATED CONDITION

ELEVATION REFERENCE - INTERIOR

SHEET NUMBER WHERE ELEVATION IS SHOWN
A-101
ELEVATION NUMBER
1, 2, 3, 4 / A101

SIM — SIMILAR CONDITION
OH — OPPOSITE HAND
OPP — OPPOSITE HAND
ROT — ROTATED CONDITION

BUILDING SECTION REFERENCE

SECTION NUMBER
SIM
1 / A101
SHEET NUMBER WHERE SECTION IS SHOWN

SIM — SIMILAR CONDITION
OH — OPPOSITE HAND
OPP — OPPOSITE HAND
ROT — ROTATED CONDITION

WALL SECTION / DETAIL SECTION REFERENCE

SECTION NUMBER
SIM
1 / A101
SHEET NUMBER WHERE SECTION IS SHOWN

SIM — SIMILAR CONDITION
OH — OPPOSITE HAND
OPP — OPPOSITE HAND
ROT — ROTATED CONDITION

ROOM TAG SYMBOL

ROOM NAME — ROOM NAME
101 — ROOM NUMBER
150 SF — ROOM NET AREA (WHERE SHOWN)

DOOR TAG SYMBOL

A-101.1 — DOOR NUMBER

DIMENSIONS

7' - 0" — DIMENSION TO FACE OR EDGE OR CENTERLINE
7' - 0" — CLEAR DIMENSION TO FINISH FACE

MISCELLANEOUS TAGS AND SYMBOLS

SECOND FLOOR — ITEM IDENTIFIED
10'-0" — ELEVATION ABOVE FLOOR

RF-SBS-4 — ROOF SYSTEM
EWS-BR-STUD-4G-FR — EXTERIOR WALL SYSTEM — NOTE: SEE EXTERIOR SUB-SYSTEM TYPES FOR ADDITIONAL INFORMATION
FL-GRADE-4VB — FLOOR SYSTEM

901-4a — PARTITION TYPE (SEE PARTITION TYPE LEGEND FOR ADDITIONAL INFORMATION)

SF-E-22 — WINDOW / STOREFRONT / CURTAIN WALL / LOUVER TYPE

CLG MATL — CEILING MATERIAL
1'-0" — CEILING HEIGHT ABOVE FINISH FLOOR

GB-24 — TOILET ACCESSORY TAG
SPECIALTY EQUIPMENT TAG
(SEE LEGENDS ON SPECIFIC SHEETS)

FEC-SR — FIRE EXTINGUISHER (MULTI-PURPOSE) IN WALL MOUNTED CABINET
STYLE: SR=SEMI-RECESSED
FR= FULLY-RECESSED
S= SURFACE
FEC-K-SR (CLASS K STYLE FIRE EXTINGUISHER FOR KITCHENS)

FEC-B — FIRE EXTINGUISHER (MULTI-PURPOSE) ON WALL BRACKET

FD — FD - FLOOR DRAIN

FB FB — FB - FLOOR BOX OR POKE-THROUGH, SEE ELEC. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION

BRICK / MASONRY CONTROL JOINT
BUILDING EXPANSION JOINT

CJ CJ — GYPSUM BOARD CONTROL JOINTS

FIRE RESISTANCE RATING SYMBOLS

NOTE: SEE PARTITION TYPES, EXTERIOR WALL SYSTEMS, FLOOR SYSTEMS AND ROOF SYSTEMS FOR UL DESIGNATION NUMBERS

- ONE-HOUR FIRE-RESISTANCE RATING
- TWO-HOUR FIRE-RESISTANCE RATING
- THREE-HOUR FIRE-RESISTANCE RATING
- FOUR-HOUR FIRE-RESISTANCE RATING
- 30-MINUTE FIRE-RESISTANCE RATING
- SMOKE BARRIER
- SMOKE PARTITION
- CONSTRUCTION CAPABLE OF RESISTING THE PASSAGE OF SMOKE (IBC 509.4.2)

REVISION SYMBOL

CLOUD AROUND REVISION
1 — REVISION NUMBER (SEE BORDER TITLE BLOCK FOR ADDITIONAL INFORMATION)

GENERAL PROJECT NOTES

COORDINATION

A. VERIFY DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AT THE SITE BEFORE COMMENCING WORK AND REPORT DISCREPANCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO THE START OF WORK. DO NOT SCALE DRAWINGS.

B. SHOULD THE SPECIFICATIONS FAIL TO PARTICULARLY DESCRIBE THE MATERIAL TO BE USED IN ANY PLACE, THEN IT SHALL BE THE DUTY OF THE CONTRACTOR TO SUBMIT A REQUEST FOR INTERPRETATION.

C. STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND LANDSCAPE DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS, BUT TOGETHER WITH THE ARCHITECTURAL DRAWINGS FORM THE COMPLETE SCOPE OF WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS TO COMPLY WITH AND COORDINATE THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE PROTECTION, AND PLUMBING WORK. SHOULD THERE BE A DISCREPANCY DISCOVERED BETWEEN THE ARCHITECTURAL DRAWINGS AND THE CONSULTANT ENGINEER'S DRAWINGS, IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION PRIOR TO THE INSTALLATION OF SAID WORK. CONTRACTORS SHALL NOT, EITHER KNOWINGLY OR IF HE SHOULD HAVE KNOWN BASED ON INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS, INSTALL WORK IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS. ANY SUCH WORK SHALL BE CORRECTED BY THE CONTRACTOR(S) AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT.

D. WHERE A CONFLICT OCCURS BETWEEN ONE SCOPE OF WORK AND ANOTHER, PREPARE A COMPLETE INTERFERENCE DRAWING FOR DISCUSSION WITH THE ARCHITECT. INTERFERENCE DRAWING SHALL SHOW ALL RELATIONSHIPS TO SURROUNDING WORK, DIMENSIONS, CLEARANCES, ANCHORAGES AND OTHER PERTINENT INFORMATION REQUIRED FOR THE CONSULTANT TO RENDER AN INFORMED OPINION.

E. ALL MANUFACTURED MATERIALS USED SHALL BEAR THE APPROPRIATE UNDERWRITER'S LABORATORIES (UL) LABELS.

F. CONTRACTOR(S) SHALL VERIFY SIZES AND LOCATIONS OF ALL MECHANICAL EQUIPMENT PADS AND BASES AS WELL AS POWER, WATER AND DRAIN INSTALLATIONS WITH EQUIPMENT MANUFACTURERS BEFORE PROCEEDING WITH THE WORK. CHANGES TO ACCOMMODATE FIELD CONDITIONS OR SUBSTITUTIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO OWNER OR ARCHITECT.

G. CONTRACTOR(S) SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BACK UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK, TOILET ROOM ACCESSORIES AND PARTITIONS AND ALL WALL MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL, PLUMBING OR MISCELLANEOUS EQUIPMENT.

H. CONTRACTOR(S) SHALL VERIFY ALL CONCRETE OPENINGS IN THE FIELD PRIOR TO THE FABRICATION OF DOORS AND FRAMES.

I. CONTRACTOR TO COORDINATE THE EXACT DIMENSIONS, SIZES AND POSITION OF OPENINGS IN SLABS AND WALLS AND COORDINATE PLUMBING AND MECHANICAL DRAWINGS FOR STRUCTURAL BEAMS TO BE SLEEVED PRIOR TO COMMENCING STRUCTURAL WORK.

J. THE CONTRACT DOCUMENTS ARE COMPLIMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL; PERFORMANCE BY THE CONTRACTOR(S) SHALL BE REQUIRED TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS, REASONABLY INFERABLE FROM THEM AND REASONABLY FORESEEABLE, USING THE MEANS, METHODS AND PROCEDURES NECESSARY TO PRODUCE THE INTENDED RESULTS. SUBCONTRACTORS FOR EACH TRADE ARE ADVISED THAT INFORMATION PERTINENT TO THE SCOPE OF WORK MAY OCCUR IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS. REFER TO CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, ETC., FOR ADDITIONAL NOTES. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING COMPONENTS. NOTES ON ANY ONE SHEET ARE TO BE APPLIED TO RELATED DRAWINGS AND DETAILS.

K. THE CONTRACTOR(S) SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS, INCLUDING, BUT NOT LIMITED TO, CRITICAL DIMENSIONS FOR CASEWORK AND GLAZING PRIOR TO THE COMMENCEMENT OF THE WORK. SHOULD A DISCREPANCY OCCUR THE CONTRACTOR(S) IS TO NOTIFY THE ARCHITECT PRIOR TO THE COMMENCEMENT OF THE WORK. THE CONTRACTOR(S) SHALL CORRECT ALL DEVIATIONS AND MAKE ANY ADJUSTMENTS TO THE WORK BEFORE HE BEGINS HIS PORTION OF THE WORK.

L. THE CONTRACTOR(S) SHALL VISIT THE SITE AND BE KNOWLEDGEABLE OF CONDITIONS THEREON. HE SHALL INVESTIGATE, VERIFY AND BE FAMILIAR WITH CONDITIONS OF THE PROJECT. HE SHALL NOTIFY THE OWNER OF ANY CONDITIONS REQUIRING MODIFICATION BEFORE PROCEEDING WITH THE WORK.

M. THE CUTTING OF EXISTING CONSTRUCTION AND FINISHES SHALL BE REPAIRED WHERE CUT OR DAMAGED BY OTHER PORTIONS OF THE WORK BY TRADES PEOPLE WHO ARE BY TRAINING AND EXPERIENCE QUALIFIED TO MAKE SUCH REPAIRS, SHALL PERFORM THE REPAIRS.

N. SEAL ALL STAIR STRINGERS AND LANDINGS TO THE WALL WHERE A TIGHT UNIFORM FIT HAS NOT BEEN FURNISHED AT THE WALL AND STAIR STRINGER CONDITION.

O. ENSURE THAT WALL FINISH MATERIALS SUCH AS PAINT ARE COMPATIBLE WITH SEALANT MATERIAL UTILIZED IN THE WALL CONSTRUCTION.

P. ANY DETAILS, SYSTEMS, MATERIALS, (I.E. ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC.) WHICH ARE PROPOSED TO BE CHANGED BY THE CONTRACTOR MUST FIRST BE REVIEWED BY THE OWNER, ARCHITECT AND GENERAL CONTRACTOR PRIOR TO THE PREPARATION OF SHOP DRAWINGS.

Q. PROVIDE ACCESS PANELS IN CEILINGS WHERE REQUIRED FOR ACCESS TO ALL EQUIPMENT AND OR DEVICES. ARCHITECT TO REVIEW PROPOSED LOCATIONS. COORDINATE THE REQUIREMENT WITH WORK OF OTHER TRADES SHOWN ON THE DRAWINGS AND IN THE PROJECT MANUAL.

R. WHETHER OR NOT EXPLICITLY INDICATED, ALL GLAZING SHALL BE SAFETY GLAZING WHEN WITHIN 18" OF THE FLOOR OR WITHIN 36" HORIZONTAL DISTANCE FROM ANY DOOR.

S. PROVIDE SHOP DRAWINGS AND COORDINATION DRAWINGS TO GUIDE THE FIELD INSTALLATION OF ALL SYSTEMS. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL NOT USE THESE DIAGRAMMATIC CONTRACT DOCUMENTS AS THEIR SHOP AND COORDINATION DRAWINGS.

T. IN AREAS INDICATED BY THE FINISH PLANS TO BE PAINTED AND WHERE NO CEILING IS INDICATED, PAINT SHALL EXTEND TO THE BOTTOM OF THE FLOOR OR ROOF STRUCTURE (TYPICAL). REFER TO REFLECTED CEILING PLANS AND FINISH SPECIFICATIONS FOR PAINTING OF EXPOSED STRUCTURE.

CODES

A. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL CODES AND ALL OTHER GOVERNING AUTHORITIES HAVING JURISDICTION AS IDENTIFIED ON LIFE SAFETY DRAWINGS.

B. IN CASE OF CONFLICT BETWEEN THESE CODES AND STANDARDS OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO THE START OF WORK. SHOULD THE CONTRACTOR KNOWINGLY PROCEED WITH WORK WITHOUT RESOLUTION BY THE ARCHITECT, IT WILL NOT RELIEVE THE CONTRACTOR FROM MODIFYING, REMOVING OR REPLACING THE WORK TO CONFORM TO THE ARCHITECTS INTERPRETATION OF THE CONTRACT DOCUMENTS.

C. ALL CONSTRUCTION RELATING TO THE BUILDING SHALL CONFORM TO THE ACCESSIBILITY STANDARDS OF ANSI A117.1 LATEST EDITION.

D. CONTRACTOR SHALL COMPLY WITH IBC CHAPTER 33: SAFEGUARDS DURING CONSTRUCTION AND IFC CHAPTER 33: FIRE SAFETY DARNING CONSTRUCTION AND DEMOLITION DURING ANY DEMOLITION AND CONSTRUCTION.

DIMENSIONS

A. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. NOTIFY THE ARCHITECT OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

B. CONTRACTOR(S) AND MANUFACTURERS TO COORDINATE ALL DIMENSIONS CONCERNING DOORS, PANELS, WINDOWS, STAIRS AND THEIR OPENINGS PRIOR TO FABRICATION AND CONSTRUCTION.

C. THE CONTRACTOR(S) SHALL THOROUGHLY VERIFY ALL DIMENSIONS PRIOR TO THE BID SUBMISSION. TO THE EXTENT PRACTICABLE, HE SHALL ALSO VERIFY FIELD CONDITIONS AT THE SITE. ANY AND ALL CONFLICTS, OMISSIONS AND DISCREPANCIES SHALL BE REPORTED IN WRITING TO THE ARCHITECT FIVE BUSINESS DAYS PRIOR TO THE BID SUBMISSION, OTHERWISE THE CONTRACTOR(S) SHALL BEAR ALL COSTS TO COMPLETE THE WORK AS INTENDED ON THE DRAWINGS. THE CONTRACTOR(S) WARRANTS BY RENDERING HIS BID THAT THE WORK IS BUILDABLE AS SHOWN.

D. DIMENSIONS ARE INDICATED TO THE CENTERLINE OF THE STRUCTURAL GRID, FACE OF CONCRETE WALL, NOMINAL FACE OF CMU / CONCRETE / BRICK WALL, FACE OF GWB/METAL STUD PARTITION, UNLESS NOTED OTHERWISE.

E. ALIGNMENT OF PARTITIONS AND FINISHES AS SCHEDULED SHALL BE STRAIGHT, TRUE AND PLUMB.

F. MINIMUM DIMENSIONS FOR ACCESSIBILITY CLEARANCES AND BUILDING CODE REQUIREMENTS SHALL BE MAINTAINED.

G. FLOOR ELEVATIONS ARE INDICATED FROM TOP OF SLAB, UNLESS NOTED OTHERWISE.

H. VERTICAL DIMENSIONS ARE INDICATED FROM THE FLOOR ELEVATION TO THE FACE OF FINISHED MATERIAL, UNLESS OTHERWISE NOTED ABOVE FINISH FLOOR (AFF).

I. ALL DIMENSIONS INDICATED TO BE CLEAR / CLR SHALL BE PROVIDED AS A MINIMUM CLEAR DIMENSION TO BE MAINTAINED BETWEEN FINISHED PARTITIONS AND MATERIALS (INCLUSIVE OF FINISH MATERIALS).

SYSTEMATIC METHODS

A. ALL DIMENSIONS, NOTES, FINISHES AND FIXTURES SHOWN ON TYPICAL FLOOR PLANS, SECTIONS OR DETAILS SHALL APPLY TO ALL SIMILAR, SYMMETRICAL OR OPPOSITE HAND PLANS, SECTIONS OR DETAILS.

B. "TYPICAL" OR "TYP" SHALL MEAN THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, UNLESS NOTED OTHERWISE (UNO). DETAILS ARE USUALLY KEYED AND NOTED "TYP" ONLY ONE TIME WHEN THEY FIRST OCCUR.

C. "SIMILAR" OR "SIM" SHALL MEAN THAT THE COMPLETE SYSTEM AND COMPONENTS SHALL BE PROVIDED COMPARABLE TO THE CHARACTERISTICS FOR THE CONDITION NOTED.

D. "AS REQUIRED" SHALL MEAN THAT THE REQUIRED COMPONENTS TO COMPLETE THE NOTED SYSTEM AS INDICATED IN THE PROJECT DOCUMENTS, SHALL BE PROVIDED.

E. "ALIGN" SHALL MEAN ACCURATELY PROVIDE FINISH FACES OF THE MATERIALS IN A STRAIGHT, TRUE AND PLUMB RELATION TO ADJACENT MATERIALS.

F. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

G. LARGE SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE, DETAILS TAKE PRECEDENCE OVER ALL.

H. THE PHRASE "MOCK UP" AND "IN PLACE SAMPLES" ARE USED INTERCHANGEABLY.

PROTECTION OF EXPOSED TO VIEW

A. ANY WORK THAT IS NOT FORMED AS REQUIRED OR FOR ANY REASON IS NOT OF ALIGNMENT, NOT LEVEL, OR SHOWS A DEFECTIVE SURFACE, AS DETERMINED BY THE ARCHITECT, SHALL BE REMOVED FROM THE JOB AND REPLACED/RECONSTRUCTED PER CONTRACT DOCUMENTS AT NO ADDITIONAL COST TO THE OWNER, AND NO INCREASE IN PROJECT SCHEDULE, UNLESS THE ARCHITECT GRANTS PERMISSION TO REPAIR THE DEFECTIVE AREA. PERMISSION TO PATCH ANY SUCH AREA SHALL NOT BE CONSIDERED A WAIVER OF THE ARCHITECT'S RIGHT TO REQUIRE A COMPLETE REMOVAL OF DEFECTIVE WORK IF THE REPAIR DOES NOT IN HIS OPINION, SATISFACTORILY RESTORE THE QUALITY OF THE WORK. THE ARCHITECT SHALL BE THE SOLE JUDGE OF ACCEPTABILITY.

B. PROTECTION: MATERIALS EXPOSED IN THE FINISHED WORK FORM AN IMPORTANT PART OF THE COMPLETED DESIGN. AS SUCH, THE CONTRACTORS' ATTENTION IS DIRECTED TO PROTECTION OF MATERIALS EXPOSED IN THE FINISHED WORK DURING AND AFTER INSTALLATION. DAMAGE TO MATERIALS EXPOSED IN THE FINISHED VIEW SHALL BE DEEMED A DEFECT AND SHALL BE CAUSE FOR REJECTION OF THE WORK. DAMAGE SHALL INCLUDE, BUT IS NOT LIMITED TO: PHYSICAL DAMAGE (CHIPPING, CRACKING, SCRATCHING, DENTS, TOOL MARKS, ETC.) OR STAINING DUE TO CONTRACTOR'S OPERATIONS, PHYSICAL DAMAGE OR STAINING DUE TO AIR BORNE CONTAMINANTS (DUST, WIND BORNE DEBRIS, ETC.), THERMAL OR MOISTURE STRESS DAMAGE, AND PHYSICAL DAMAGE OR STAINING CAUSED BY ORGANIC GROWTHS/CONTAMINANTS (MOLD, MILDEW, ETC.) REPLACE, AT NO ADDITIONAL COST TO THE OWNER ALL WORK FOUND DEFECTIVE.

C. PASSIVATE ALL EXPOSED TO VIEW STAINLESS STEEL DO NOT RECONTAMINATE ONCE STAINLESS STEEL HAS BEEN PASSIVATED.

EXPOSED TO VIEW LIMITATIONS

A. EXPOSED FASTENERS ARE PROHIBITED IN THE FINISHED WORK.
B. ALL CONDUIT, PIPING AND DUCTWORK SHALL BE CONCEALED UNLESS NOTED OTHERWISE

PENETRATIONS OF FIRE-RATED ASSEMBLIES

A. MECHANICAL DUCTS THAT PENETRATE FIRE RATED CEILINGS AND FIRE RATED WALLS SHALL BE CORRESPONDINGLY RATED OR DAMPERED.

B. CABINETS, ELECTRICAL PANELS, LIGHTS, ETC. RECESSED INTO FIRE RATED WALLS OR CEILINGS SHALL BE BACKED WITH CORRESPONDING FIRE RESISTIVE CONSTRUCTION AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE FIRE PROTECTION AND ACOUSTIC RATING.

C. ALL VOIDS AND PENETRATIONS THROUGH FLOOR SLABS BY CONDUITS, PIPES, ETC. EXCEPT CONTAINED ENTIRELY WITHIN RATED SHAFTS, SHALL BE SEALED TO MAINTAIN FIRE RATING OF THE RATED CONDITION.

D. ALL CONDUIT AND PIPING PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED TO MAINTAIN FIRE RATING AND ACOUSTIC RATING OF RATED CONDITION.

PENETRATIONS OF NON-FIRE-RATED ASSEMBLIES

A. MECHANICAL DUCTS, PIPES, AND CONDUIT THAT PENETRATE CEILINGS AND WALLS SHALL BE SEALED AND MAINTAIN THE INDICATED ACOUSTIC RATING OF THE WALL OR CEILING.

B. ALL VOIDS AND PENETRATIONS THROUGH FLOOR SLABS BY CONDUITS, PIPES, ETC. EXCEPT CONTAINED ENTIRELY WITHIN RATED SHAFTS, SHALL BE SEALED.

DISSIMILAR METALS

A. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO PREVENT MOLECULAR BREAKDOWN, CORROSION AND GALVANIC ACTION. SUBMIT AFFIDAVITS WHICH CERTIFY THAT DISSIMILAR MATERIALS ARE ISOLATED

COORDINATION OF DEVICES

A. THE LOCATION OF ALL MECHANICAL, ELECTRICAL AND PLUMBING, FIRE LIFE SAFETY AND SECURITY DEVICES AND FIXTURES ARE SHOWN APPROXIMATELY IN CONSULTING ENGINEERING DRAWINGS. EXACT LOCATIONS OF ELECTRICAL, LOW VOLTAGE, MECHANICAL AND PLUMBING DEVICES, INCLUDING BUT NOT LIMITED TO SMOKE DETECTORS, PULL STATIONS, SWITCHES, OUTLETS, PHONE JACKS AND THERMOSTATS ARE ESTABLISHED BY THE ARCHITECTURAL DRAWINGS FOR ALIGNMENT AND COORDINATION WITH EACH OTHER AND OTHER BUILDING DEVICES PRIOR TO INSTALLATION.

B. CONTRACTOR(S) IS TO PROVIDE AND INSTALL SINGLE COVER PLATE FOR MULTIPLE (GANGED) SWITCH LOCATIONS.

C. ALL WALL MOUNTED DEVICES SUCH AS ELECTRICAL RECEPTACLE PLATES, ELECTRICAL SWITCH PLATES, THERMOSTATS, LIGHT FIXTURES, DATA PLATES, SIGNAGE, FIRE ALARM PULL STATIONS, FIRE ALARM HORNS AND STROBES, MOTION DETECTORS, ETC. SHALL BE MOUNTED LEVEL AND PLUMB. WHERE DEVICES ARE ADJACENT TO ANOTHER SUCH AS LIGHT SWITCHES, RECEPTACLES, THERMOSTATS, ETC., THE TOP OF THE DEVICE SHALL ALIGN WITH THE ADJACENT DEVICE.

D. THERE SHALL BE NO BACK-TO-BACK ELECTRICAL, TELEPHONE OR OTHER OUTLETS. OUTLET HOLES SHALL BE BACKED WITH ACOUSTICAL PUDDY PAD AND SEALED WITH ACOUSTICAL SEALANT.

E. WHEN OUTLETS ARE GRAPHICALLY SHOWN AS OCCURRING BACK-TO-BACK ,THEY SHOULD BE SEPARATED BY A STUD. SEE ACOUSTICAL PENETRATION DETAILS. WHERE DIMENSIONS ARE SHOWN WHICH CONFLICT WITH THIS, OBTAIN DIRECTION FROM ARCHITECT.

EXTERIOR ENVELOPE

A. THE ENVELOPE SHALL BE CONTINUOUS AROUND THE ENTIRE PERIMETER OF THE BUILDING, INCLUDING AT JOGS, OFF-SETS, RECESSED WALL AREAS, SOFFITS, ROOF TO WALL TRANSITION, EQUIPMENT RECESSED AT EXTERIOR WALLS.

B. ALL EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALLS AND THE ROOF, BETWEEN WALL PANELS, AT PENETRATIONS OF UTILITIES THROUGH THE ENVELOPE, SHALL BE SEALED OR WEATHER-STRIPPED TO PREVENT AIR LEAKAGE / INFILTRATION.

C. PROVIDE PHYSICAL METAL SUPPORT FOR FLEXIBLE FLASHINGS TO MAINTAIN POSITIVE DRAINAGE IN CAVITY WALLS OR ACROSS OTHER VOIDS.

D. FORM END DAMS IN FLASHINGS AT WINDOW & DOOR HEADS AND OTHER LOCATIONS AS REQUIRED TO DIRECT THE FLOW OF WATER TO THE EXTERIOR.

E. DO NOT SEAL WEEP HOLES OR FLASHING TERMINATIONS TO THE EXTERIOR.

MATERIALS LEGEND

- CONCRETE
- WOOD (ROUGH)
- CONCRETE MASONRY UNIT (CMU)
- WOOD FINISHED
- BRICK
- PLYWOOD
- STEEL
- BATT INSULATION
- POROUS FILL (STONE OR GRAVEL)
- RIGID INSULATION
- COMPACTED EARTH
- SAND, PLASTER, CEMENT, GROUT, GYPSUM BOARD

QUACKENBUSH ARCHITECTS + PLANNERS
1217 HAMPTON | COLUMBIA,SC | 803.771.2999 | quackenbusharchitects.com

A/E SEAL
STATE OF SOUTH CAROLINA — BARBARA HALLER — Columbia, SC — 6198 — REGISTERED ARCHITECT

CORPORATE SEAL
STATE OF SOUTH CAROLINA — QUACKENBUSH ARCHITECTS + PLANNERS LLC — Columbia, SC — No. 100028 — REGISTERED ARCHITECTS

PROJECT TITLE
MTC - SUITE RENOVATIONS IN LRC AT BELTLINE CAMPUS
MIDLANDS TECHNICAL COLLEGE
316 S BELTLINE BOULEVARD — COLUMBIA, SC

PHASE
CONSTRUCTION DOCUMENTS

ISSUE DATE	8.26.22
PROJECT NO.	22.301.00
STATE PROJECT NO.	H59-N187-CL

REVISION — DATE

TITLE
ABBREVIATIONS, SYMBOLS, PROJECT NOTES

SHEET NO
G-100

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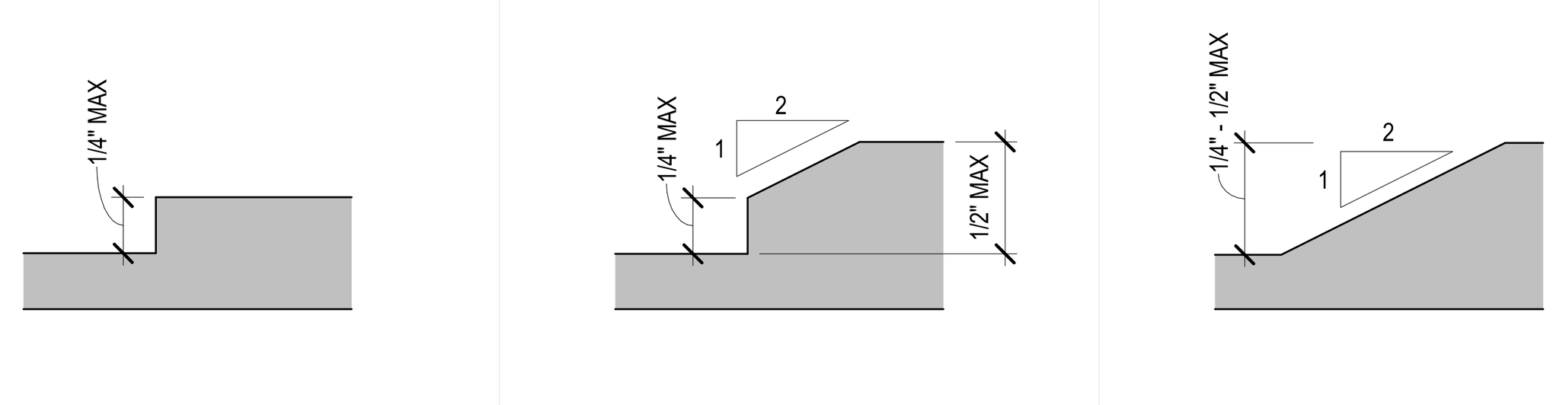
ACCESSIBILTY DIAGRAMS

303 CHANGES IN LEVEL

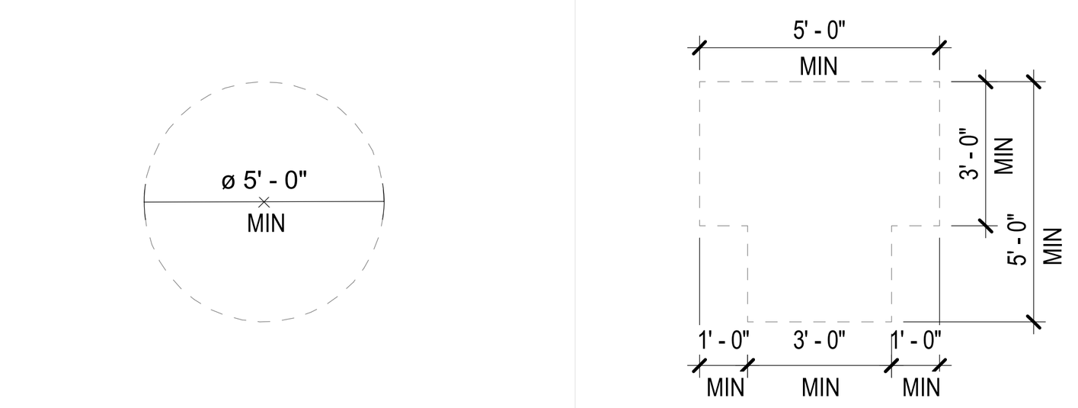


VERTICAL CHANGE IN LEVEL
Ref: ICC/ANSI A117.1-2009. Fig. 303.2

VERTICAL CHANGE IN LEVEL
Ref: ICC/ANSI A117.1-2009. Fig. 303.3 (a)

VERTICAL CHANGE IN LEVEL
Ref: ICC/ANSI A117.1-2009. Fig. 303.3 (b)

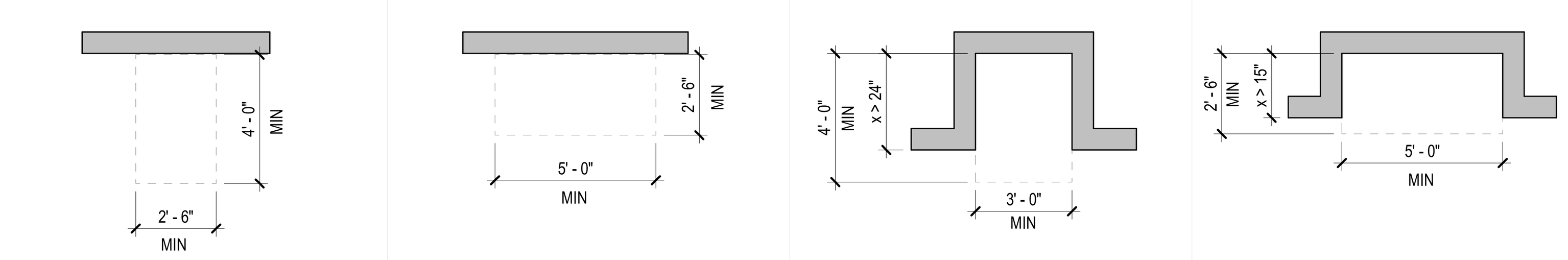
304 WHEELCHAIR TURNING SPACE



SIZE OF CIRCULAR WHEELCHAIR
TURNING SPACE
Ref: ICC/ANSI A117.1-2009. Fig. 304.3 (a)

SIZE OF T-SHAPED WHEELCHAIR
TURNING SPACE
Ref: ICC/ANSI A117.1-2009. Fig. 304.3 (b)

305 CLEAR FLOOR SPACE



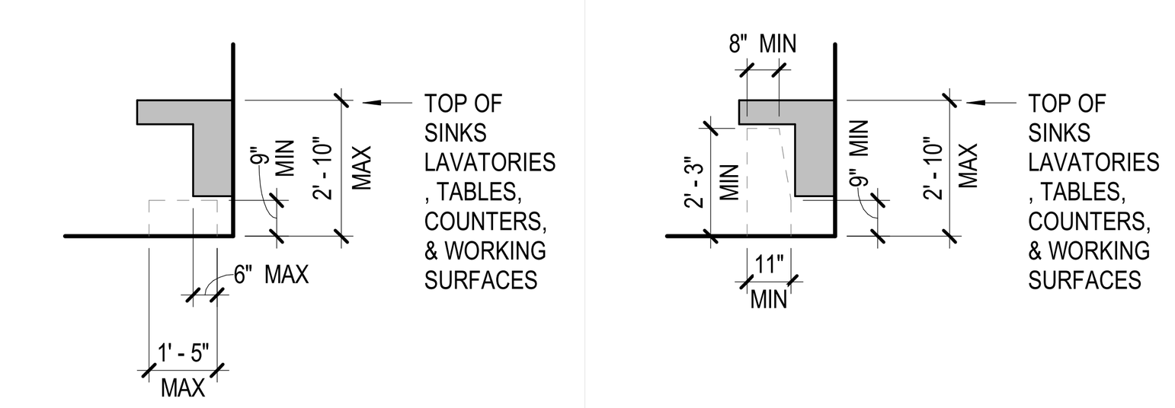
FORWARD POSITION
OF CLEAR FLOOR SPACE
Ref: ICC/ANSI A117.1-2009. Fig. 305.5 (a)

PARALLEL POSITION
OF CLEAR FLOOR SPACE
Ref: ICC/ANSI A117.1-2009. Fig. 305.5 (b)

MANEUVERING CLEARANCE FOR A
FORWARD APPROACH TO AN ALCOVE
Ref: ICC/ANSI A117.1-2009. Fig. 305.7 (a)

MANEUVERING CLEARANCE FOR A
PARALLEL APPROACH TO AN ALCOVE
Ref: ICC/ANSI A117.1-2009. Fig. 305.7 (b)

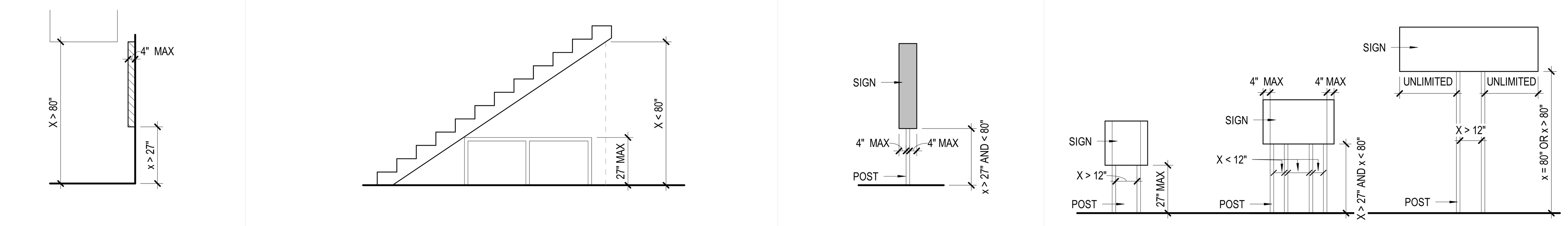
306 KNEE & TOE CLEARANCE; 606 LAVATORIES & SINKS; 902 SEATING AT TABLES, COUNTER, & WORK SURFACES



TOE CLEARANCE
Ref: ICC/ANSI A117.1-2009. Fig. 306.2 & Fig. 606.3

KNEE CLEARANCE
Ref: ICC/ANSI A117.1-2009. Fig. 306.3 & Fig. 606.3

307 PROTRUDING OBJECTS



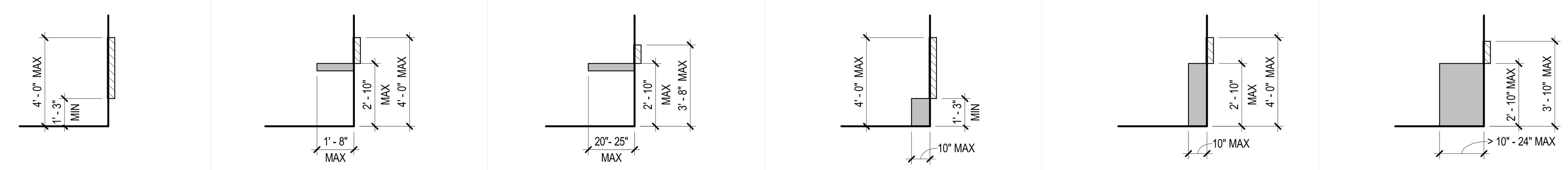
LIMITS OF PROTRUDING OBJECTS
Ref: ICC/ANSI A117.1-2009. Fig. 307.2

REDUCED VERTICAL CLEARANCE
Ref: ICC/ANSI A117.1-2009. Fig. 307.4

SINGLE POST-MOUNTED PROTRUDING
Ref: ICC/ANSI A117.1-2009. Fig. 307.3 (a)

MULTIPLE POST-MOUNTED PROTRUDING
Ref: ICC/ANSI A117.1-2009. Fig. 307.3 (a)

308 REACHING RANGES



UNOBSTRUCTED FORWARD REACH
Ref: ICC/ANSI A117.1-2009. Fig. 308.2.1

20" MAX OBSTRUCTED HIGH
FORWARD REACH
Ref: ICC/ANSI A117.1-2009. Fig. 308.2.2 (a)

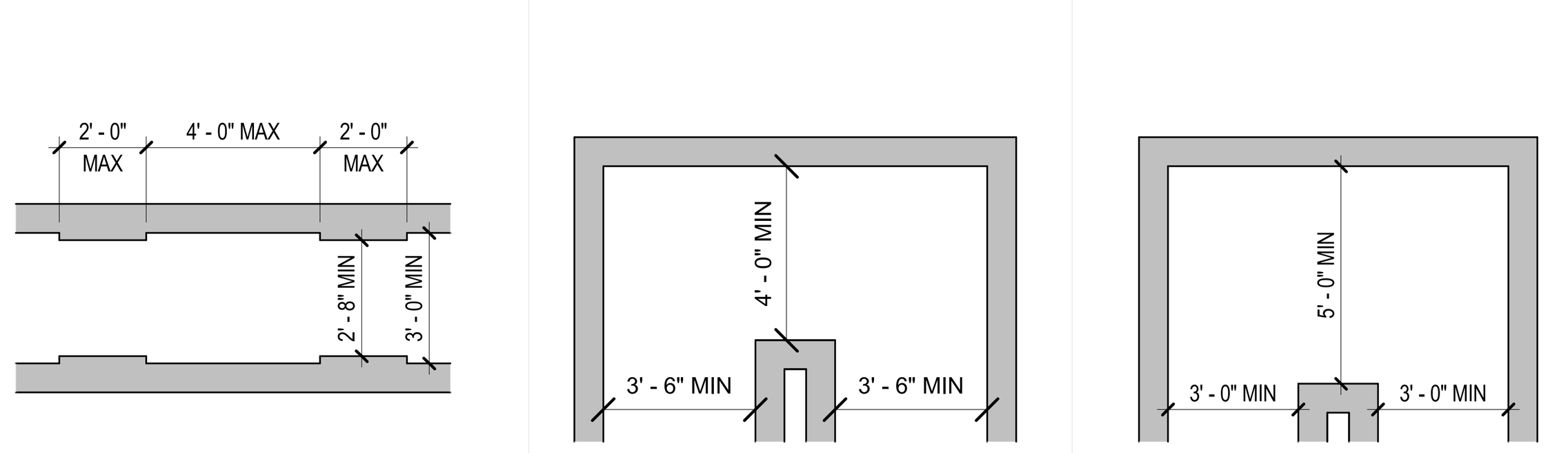
20" - 25" MAX OBSTRUCTED
HIGH FORWARD REACH
Ref: ICC/ANSI A117.1-2009. Fig. 308.2.2 (b)

UNOBSTRUCTED SIDE REACH
Ref: ICC/ANSI A117.1-2009. Fig. 308.3.1

10" MAX OBSTRUCTED
HIGH SIDE REACH
Ref: ICC/ANSI A117.1-2009. Fig. 308.3.2 (a)

24" MAX OBSTRUCTED
HIGH SIDE REACH
Ref: ICC/ANSI A117.1-2009. Fig. 308.3.2 (b)

403 WALKING SURFACES



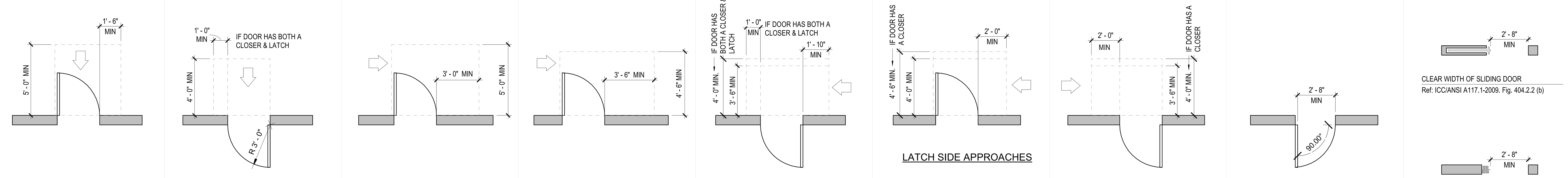
CLEAR WIDTH OF AN ACCESSIBLE ROUTE
Ref: ICC/ANSI A117.1-2009. Fig. 403.5

CLEAR WIDTH AT 180 DEGREE TURN
Ref: ICC/ANSI A117.1-2009. Fig. 403.5.1 (a)

CLEAR WIDTH AT 180 DEGREE TURN (EXCEPTION)
Ref: ICC/ANSI A117.1-2009. Fig. 403.5.1 (b)

404 DOORS AND DOORWAYS

NOTE: DIMENSIONS AND CLEARANCES SHOWN MUST BE PROVIDED AT ALL DOORS. CONTRACTOR SHALL REVIEW FIELD LAYOUT AND CONFIRM THAT ALL OF THE APPROPRIATE CLEARANCES ARE PROVIDED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION. ANY REMEDIAL WORK THAT SHOULD HAVE BEEN AVOIDED BY BRINGING DISCREPANCIES TO THE ARCHITECT'S ATTENTION SHALL BE AT THE CONTRACTORS EXPENSE.


1' - 6" MIN
5' - 0" MIN
1' - 0" MIN
IF DOOR HAS BOTH A CLOSER & LATCH
4' - 0" MIN
R 3' - 0"
3' - 0" MIN
5' - 0" MIN
3' - 6" MIN
4' - 6" MIN
IF DOOR HAS BOTH A CLOSER & LATCH
1' - 0" MIN
IF DOOR HAS BOTH A CLOSER & LATCH
1' - 10" MIN
4' - 0" MIN.
3' - 6" MIN
IF DOOR HAS A CLOSER
2' - 0" MIN
4' - 6" MIN.
4' - 0" MIN
LATCH SIDE APPROACHES
2' - 0" MIN
IF DOOR HAS A CLOSER
3' - 6" MIN
4' - 0" MIN.
2' - 8" MIN
90.00°
2' - 8" MIN
2' - 8" MIN

MAUNVERING CLEARANCE AT SWINGING DOOR:
FRONT APPROACH, PULL SIDE
Ref: ICC/ANSI A117.1-2009. Fig. 404.2.3.2 (a)

MAUNVERING CLEARANCE AT SWINGING DOOR:
FRONT APPROACH, PUSH SIDE
Ref: ICC/ANSI A117.1-2009. Fig. 404.2.3.2 (b)

MAUNVERING CLEARANCE AT SWINGING DOOR:
HINGE APPROACH, PULL SIDE
Ref: ICC/ANSI A117.1-2009. Fig. 404.2.3.2 (c)

MAUNVERING CLEARANCE AT SWINGING DOOR:
HINGE APPROACH, PULL SIDE
Ref: ICC/ANSI A117.1-2009. Fig. 404.2.3.2 (d)

MAUNVERING CLEARANCE AT SWINGING DOOR:
HINGE APPROACH, PUSH SIDE
Ref: ICC/ANSI A117.1-2009. Fig. 404.2.3.2 (e)

MAUNVERING CLEARANCE AT SWINGING DOOR:
LATCH APPROACH, PULL SIDE
Ref: ICC/ANSI A117.1-2009. Fig. 404.2.3.2 (f)

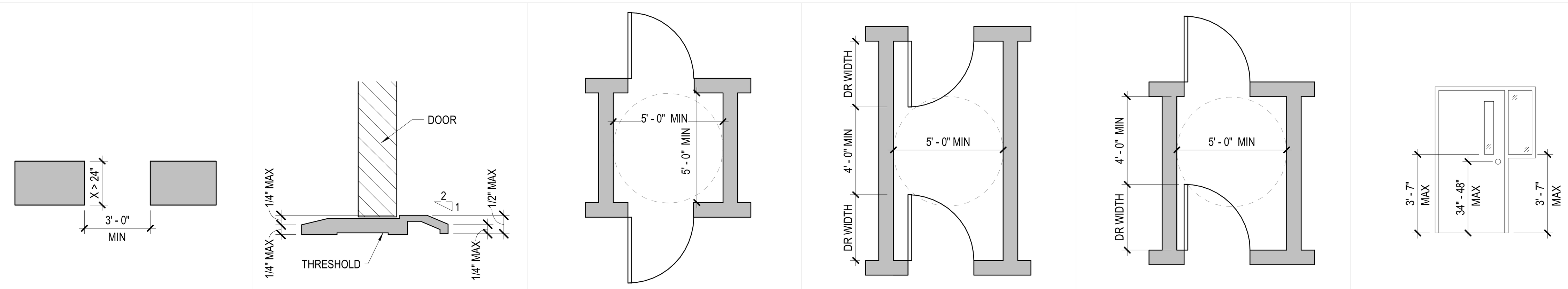
MAUNVERING CLEARANCE AT SWINGING DOOR:
LATCH APPROACH, PUSH SIDE
Ref: ICC/ANSI A117.1-2009. Fig. 404.2.3.2 (g)

CLEAR WIDTH OF HINGED DOOR
Ref: ICC/ANSI A117.1-2009. Fig. 404.2.2 (a)

CLEAR WIDTH OF SLIDING DOOR
Ref: ICC/ANSI A117.1-2009. Fig. 404.2.2 (b)

CLEAR WIDTH OF FOLDING DOOR
Ref: ICC/ANSI A117.1-2009. Fig. 404.2.2 (c)

404 DOORS AND DOORWAYS (CONT'D)



CLEAR WIDTH OF DOORWAYS WITHOUT DOORS
Ref: ICC/ANSI A117.1-2009. Fig. 404.2.2 (d)

DOOR THRESHOLD HEIGHT LIMITATIONS
Ref: ICC/ANSI A117.1-2009. Fig. C404.2.4

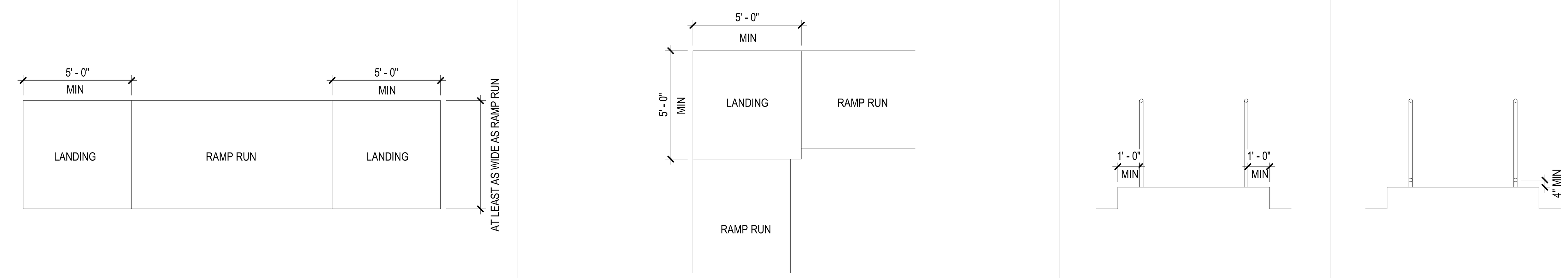
TWO DOORS IN A SERIES
Ref: ICC/ANSI A117.1-2009. Fig. 404.2.5 (a)

TWO DOORS IN A SERIES
Ref: ICC/ANSI A117.1-2009. Fig. 404.2.5 (b)

TWO DOORS IN A SERIES
Ref: ICC/ANSI A117.1-2009. Fig. 404.2.5 (c)

LOCATION OF VISION PANEL AND HARDWARE
Ref: ICC/ANSI A117.1-2009. 404.2.10

405 RAMPS



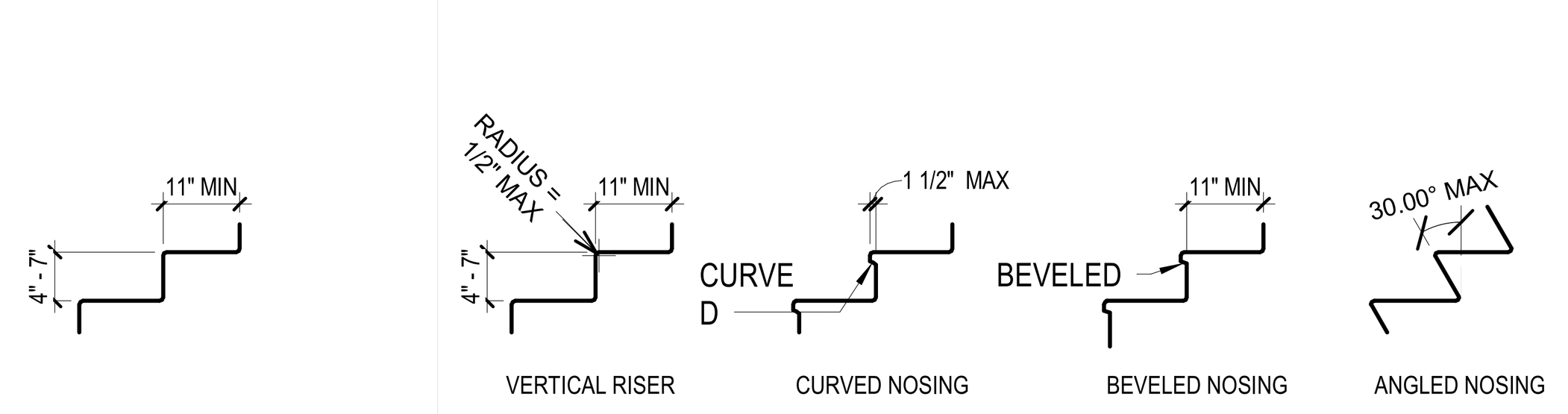
RAMP LANDING AT STRAIGHT RUN
Ref: ICC/ANSI A117.1-2009. Fig. 405.7 (a)

RAMP LANDING AT TURN
Ref: ICC/ANSI A117.1-2009. Fig. 405.7 (b)

EXTENDED SURFACE RAMP EDGE PROTECTION
Ref: ICC/ANSI A117.1-2009. Fig. 405.9.1

EXTENDED SURFACE RAMP BARRIER PROTECTION
Ref: ICC/ANSI A117.1-2009. Fig. 405.9.2(a)

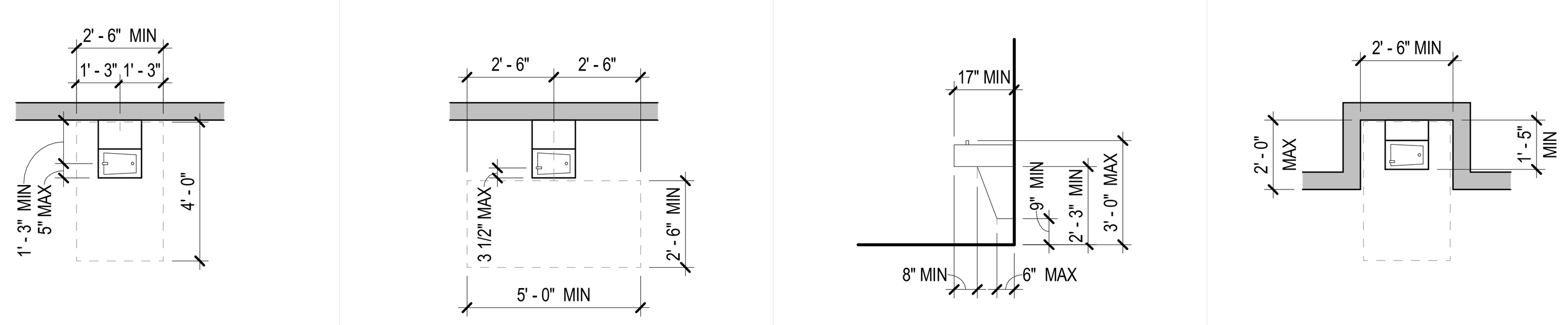
504 STAIRWAYS



TREADS AND RISERS FOR ACCESSIBLE STAIRWAYS
Ref: ICC/ANSI A117.1-2009. Fig. 504.2

STAIR NOSINGS
Ref: ICC/ANSI A117.1-2009. Fig. 504.5

602 DRINKING FOUNTAINS AND WATER COOLERS



DRINKING FOUNTAIN SPOUT LOCATION:
FORWARD APPROACH
Ref: ICC/ANSI A117.1-2009. Fig. 305.5 & Fig. 602.5

DRINKING FOUNTAIN SPOUT LOCATION:
SIDE APPROACH
Ref: ICC/ANSI A117.1-2009. Fig. 305.5 & Fig. 602.5

DRINKING FOUNTAIN SPOUT LOCATION:
FORWARD APPROACH
Ref: ICC/ANSI A117.1-2009. Fig. C602.2 (a)

DRINKING FOUNTAIN SPOUT LOCATION:
FORWARD APPROACH
Ref: ICC/ANSI A117.1-2009. Fig. C602.2 (b)

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CORPORATE SEAL
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REGISTERED ARCHITECTS

PROJECT TITLE
MTC - SUITE RENOVATIONS IN LRC AT BELTLINE CAMPUS
MIDLANDS TECHNICAL COLLEGE
316 S BELTLINE BOULEVARD
COLUMBIA, SC

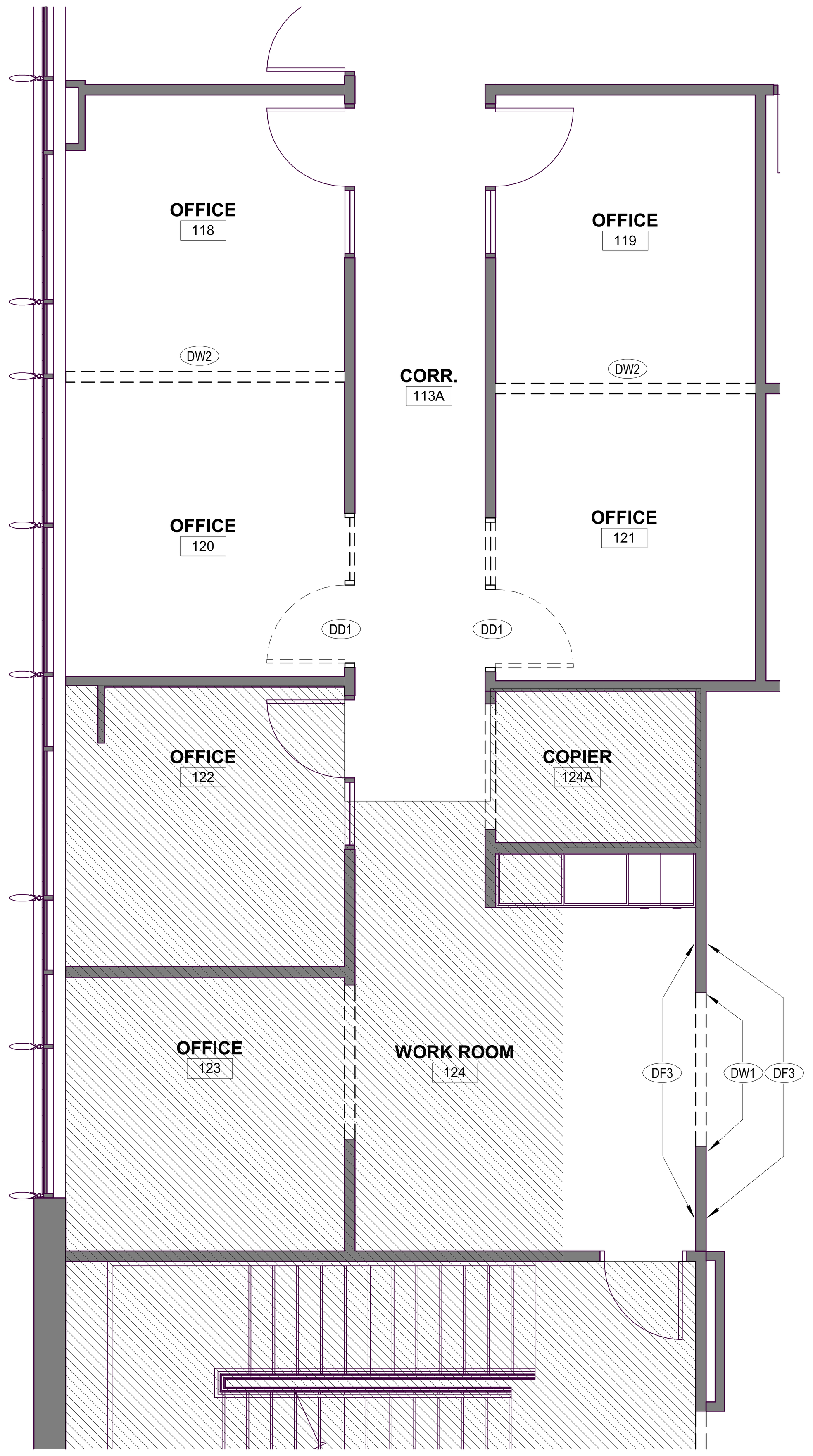
PHASE
CONSTRUCTION DOCUMENTS

ISSUE DATE	8.26.22
PROJECT NO.	22.301.00
STATE PROJECT NO.	H59-N187-CL

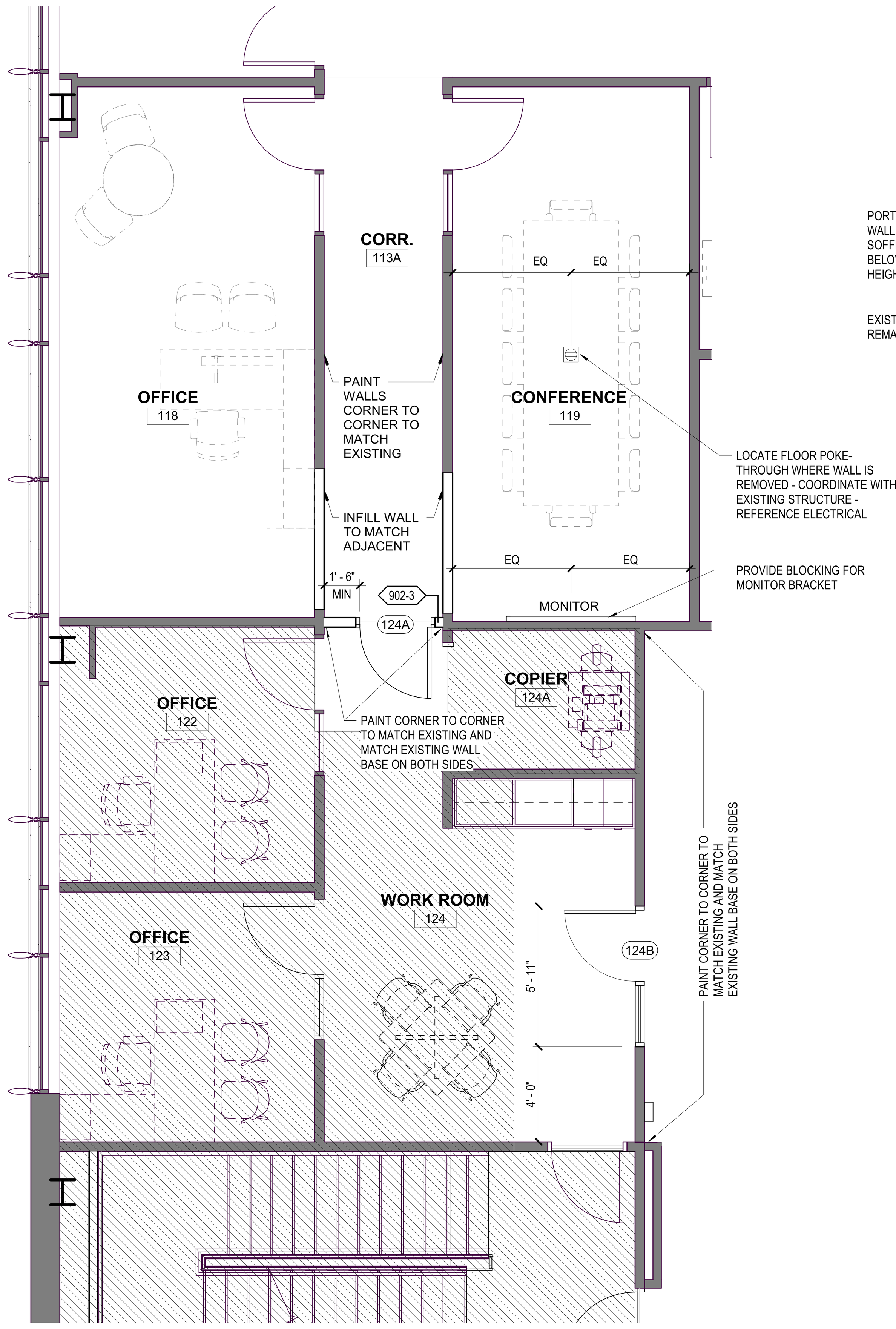
REVISION	DATE

TITLE
ACCESSIBILITY DIAGRAMS

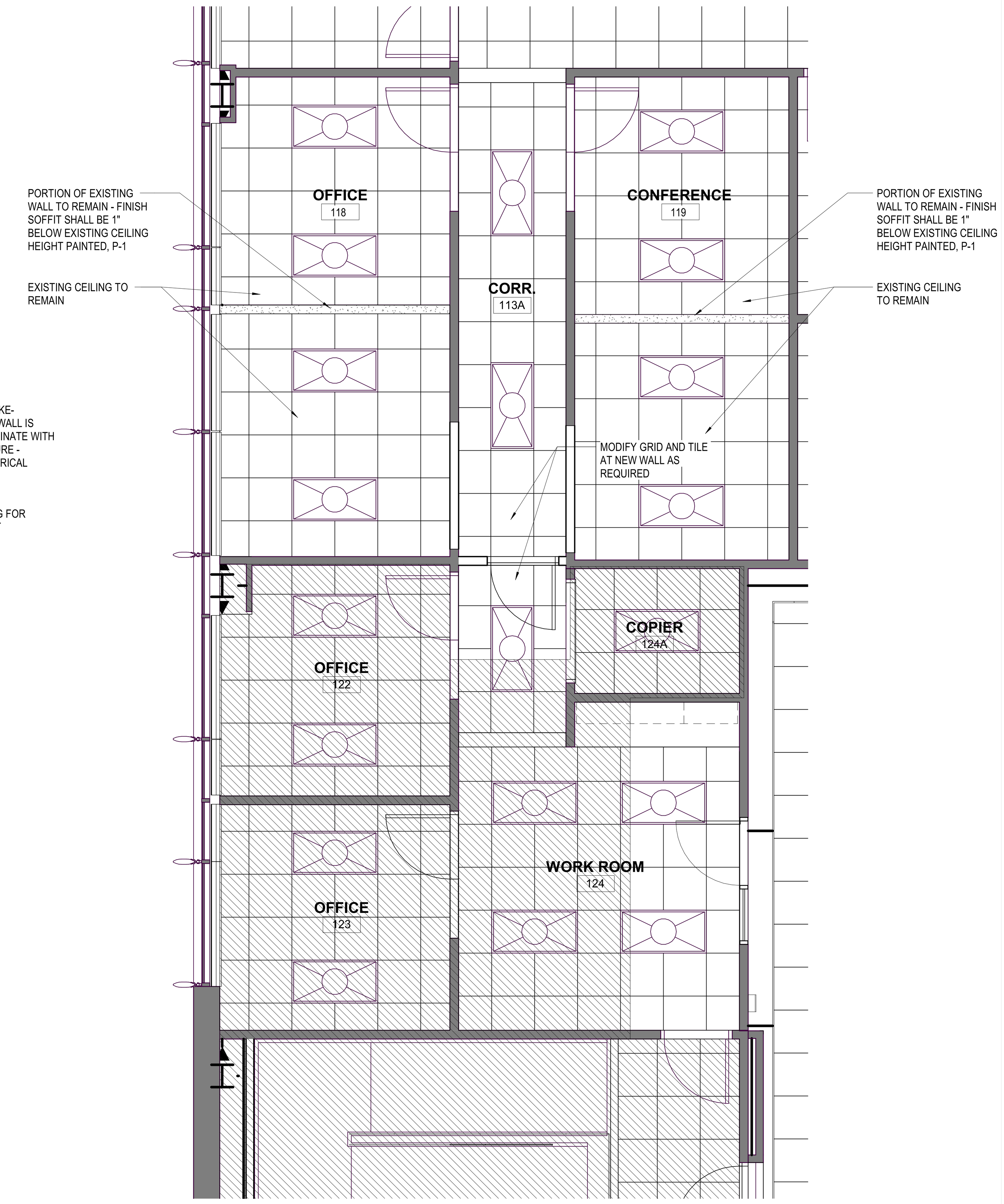
SHEET NO
G-200



1 A-102 DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



2 A-102 FLOOR PLAN
SCALE: 1/4" = 1'-0"



3 A-102 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES

A. EXISTING CONDITIONS ILLUSTRATED AS OF ***AUGUST 2022***. AFTER SURVEY AND PRIOR TO CONSTRUCTION, OWNER MAY REMOVE SOME ITEMS NOTED TO BE REMOVED AS A PART OF THIS CONTRACT.

B. PRIOR TO PREPARING THE BID, THE CONTRACTOR AND SUBCONTRACTORS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS, MAKE ALL NECESSARY INVESTIGATIONS AS TO LOCATIONS OF UTILITIES AND ALL OTHER MATTERS WHICH CAN AFFECT THE WORK. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR AS A RESULT OF HIS FAILURE TO FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS UNDER WHICH THE WORK MUST BE PREFORMED.

C. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

D. VERIFY DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AT THE SITE BEFORE COMMENCING WORK AND REPORT DISCREPANCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO THE START OF WORK.

E. ALL ITEMS INDICATED TO REMAIN AND FURNITURE, FIXTURES AND EQUIPMENT THAT ARE PERMANENTLY MOUNTED SHALL BE PROTECTED DURING DEMOLITION AND NEW CONSTRUCTION.

F. SHOULD THE CONTRACTOR ENCOUNTER ANY MATERIALS IDENTIFIED AS HAZARDOUS MATERIALS HE SHALL IMMEDIATELY REFER TO THE GENERAL CONDITIONS AND NOTIFY THE OWNER AND THE ARCHITECT.

G. CONTRACTORS' MATERIALS AND ACTIVITIES SHALL NOT BLOCK ANY EXIT OR IMPAIR FLOOR TO FLOOR FIRE SEPARATION WHILE THE BUILDING IS OCCUPIED.

H. OWNER WILL REMOVE ALL LOOSE FURNITURE, SHELVING, PICTURES, SIGNAGE AND EQUIPMENT FROM RENOVATION AREAS PRIOR TO WORK COMMENCING.

I. OWNER MAY ELECT TO SALVAGE ANY AND ALL WINDOWS, DOORS, AND DOOR HARDWARE NOTED TO BE REMOVED. MARK ITEMS TO BE DEMOLISHED FOR OWNER TO REVIEW PRIOR TO REMOVAL FROM SITE.

J. AT AREAS OF WORK, PROVIDE PLYWOOD, STUD WALL, 10 MIL POLY AND INSULATION TO PROTECT ADJACENT AREAS AND EQUIPMENT FROM DUST, DIRT, DAMAGE, AND NOISE.

K. CONTRACTOR SHALL SALVAGE CEILING PANELS FOR USE IN REPLACING DAMAGED CEILING PANELS IN AREAS OF MINOR WORK.

L. SALVAGE EXISTING CARPET TILE FLOORING INDICATED TO BE REMOVED FOR USE IN PATCHING AT AREAS OF WORK.

M. DIMENSIONS ARE TO FACE OF EXISTING WALLS / COLUMNS.

N. PATCH EXISTING WALLS TO REMAIN TO MATCH EXISTING. PREPARE SURFACE TO RECEIVE NEW FINISHES. AT EXISTING REMAINING WALLS WHERE TACK BOARDS, OUTLETS, THERMOSTATS, ETC. ARE REMOVED, REPAIR CMU/ GYPSUM BOARD TO RECEIVE NEW FINISHES AS SCHEDULED. RESTORE ALL SURFACES DISTURBED BY DEMOLITION AND/OR CONSTRUCTION ACTIVITIES TO MATCH SURROUNDING SURFACES. PAINT ALL DISTURBED AREAS TO MATCH EXISTING UNO.

O. AT OPENINGS CREATED BY DEMOLITION AND/OR CONSTRUCTION ACTIVITIES (INCLUDING BUT NOT LIMITED TO DOORS, WINDOWS, DUCTS, ELECTRIC PANELS, CONDUIT, PLUMBING FIXTURES, ETC) ARE TO BE PATCHED WITH MATERIALS THAT MATCH SURROUNDING SURFACES AND THICKNESSES TO MAINTAIN SMOOTH AND FLUSH SURFACES AS FOLLOWS:
1. METAL STUD WALLS ARE TO BE CLOSED WITH MATCHING STUD THICKNESS AND GAUGE AND MATCHING THICKNESS OF GYPSUM BOARD. MAINTAIN OR RESTORE FIRE RATINGS AT ALL LOCATIONS.

A. IN AREAS OF RENOVATION WORK: PROTECT ALL EXISTING PIPING & INSULATION AND CONDUIT TO REMAIN IN USE. REMOVE ALL ABANDONED CONDUIT, PIPING AND LOOSE DEBRIS ABOVE CEILING.

B. ALL NEW WORK ADJOINING EXISTING CONSTRUCTION SHALL ALIGN WITH AND MATCH EXISTING CONSTRUCTION UNLESS OTHERWISE DIMENSIONED OR DETAILED.

C. NEW GYPSUM BOARD CONSTRUCTION MEETING EXISTING CONSTRUCTION IN THE SAME PLANE SHALL BE SMOOTH FLUSH WITH THE EXISTING MATERIALS AND SHOW NO VISIBLE JOINT.

D. AT AREAS OF ADDED DUCTWORK, PIPING, CONDUIT, ETC. REMOVE AND REINSTALL CEILING GRID AND TILE AS REQUIRED TO INSTALL ITEMS AS INDICATED IN DOCUMENTS. REPLACE ANY AND ALL CEILING COMPONENTS (TO MATCH EXISTING) DAMAGED DURING DEMOLITION AND RENOVATION WORK. SALVAGE EXISTING AREAS TO BE REMOVED FOR PATCHING CEILING IN MINOR AREAS OF WORK.

E. PROVIDE TEMPORARY SHORING WHEREVER STRUCTURAL ELEMENTS ARE ALTERED OR REMOVED.

F. CONTRACTOR IS RESPONSIBLE FOR KNOWING AND COMPLYING WITH REGULATION REQUIREMENTS, INCLUDING BUT NOT LIMITED TO FEDERAL, STATE AND LOCAL REQUIREMENTS, PERTAINING TO LEGAL DISPOSAL OF ALL CONSTRUCTION AND DEMOLITION WASTE MATERIALS.

G. UPON COMPLETION OF DEMOLITION AND NEW WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR PROFESSIONAL CLEANING OF ALL FLOOR FINISHES, SURFACES, AND FURNITURE, FIXTURES AND EQUIPMENT NOT REMOVED BY THE OWNER.

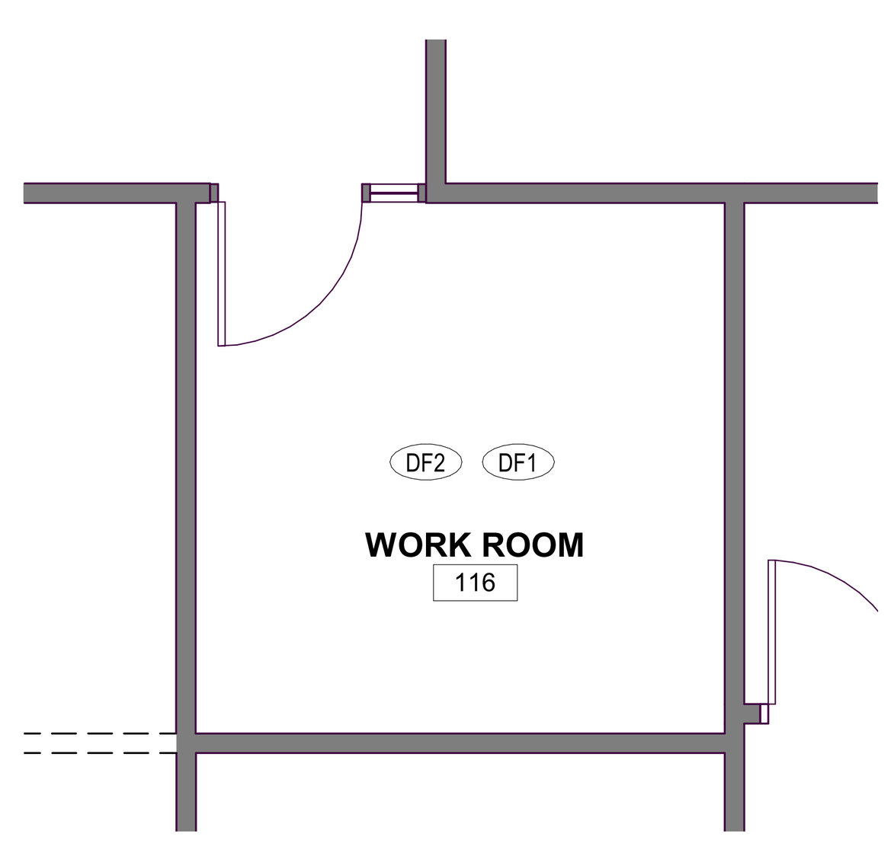
DEMOLITION & COORDINATION NOTES

A. COORDINATE SCHEDULE OF DEMOLITION W/ OWNER AND ARCHITECT PRIOR TO BEGINNING. BUILDING WILL REMAIN OCCUPIED.

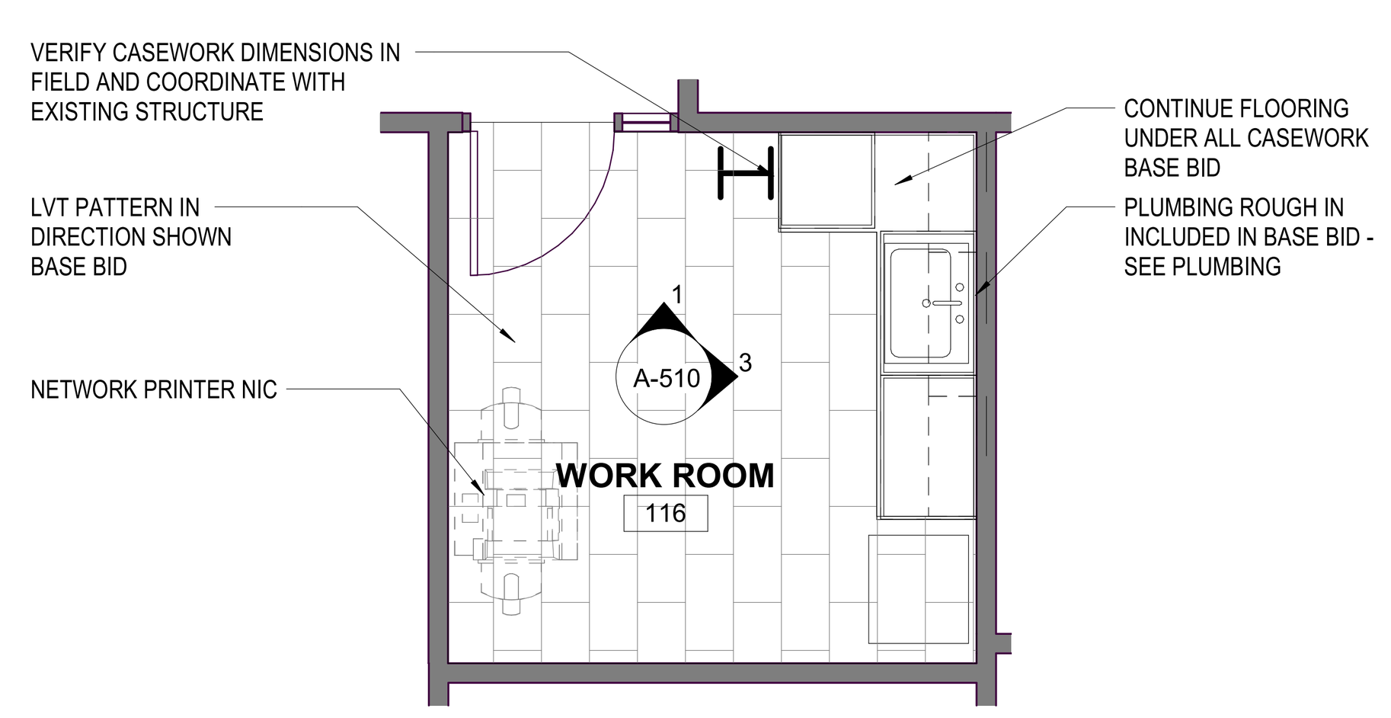
B. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION WORK. COORDINATE SEQUENCE AND SCHEDULE OF DEMOLITION AND NEW CONSTRUCTION SYSTEMS. MAINTAIN EXISTING SYSTEMS IN PLACE AS LONG AS PRACTICAL. NOTIFY OWNER & ARCHITECT A MINIMUM OF 72 HOURS PRIOR TO UTILITY DISRUPTIONS.

C. EXISTING FIRE ALARM PULL STATIONS AND STROBES SHALL REMAIN FUNCTIONAL DURING EXTENT OF CONSTRUCTION. EXISTING SMOKE DETECTORS ON CONSTRUCTION SIDE AND NEAR TEMPORARY WALL(S) SHALL BE COVERED OR DEACTIVATED FROM MAIN BUILDING SYSTEM DURING CONSTRUCTION.

D. CONTRACTOR SHALL COMPLY WITH IBC CHAPTER 33: SAFEGUARDS DURING CONSTRUCTION AND IFC CHAPTER 33: FIRE SAFETY DARNING CONSTRUCTION AND DEMOLITION DURING ANY DEMOLITION AND CONSTRUCTION.



6 A-102 ENLARGED WORK ROOM DEMO PLAN
SCALE: 1/4" = 1'-0"



4 A-102 ENLARGED WORK ROOM
SCALE: 1/4" = 1'-0"

ALTERNATE #1 - CASEWORK, COUNTERTOP, SINK AND FAUCET

REFLECTED CEILING PLAN LEGEND

⊞	CEILING GRID / PANELS - EXISTING TO REMAIN

DEMOLITION LEGEND

▬	EXISTING WALL TO REMAIN
┄	EXISTING WALL TO BE REMOVED
⌒	EXISTING CONSTRUCTION TO REMAIN
⌒	EXISTING CONSTRUCTION TO BE REMOVED
▨	AREA NOT INCLUDED IN SCOPE

INTERIOR FINISH MATERIALS

CARPET (CPT)

CPT-1 MANUFACTURER: MOHAWK GROUP - LEES
PATTERN: GT177 - JEAN TILE
COLOR: 955 - SKINNY
SIZE: 24" x 24"
REMARKS: FOR REFERENCE ONLY USE SALVAGED CARPET TILE FROM ROOM 116

LUXURY VINYL TILE (LVT)

LVT-1 MANUFACTURER: MANNINGTON COMMERCIAL
PRODUCT LINE: AMTICO - ABSTRACT
PRODUCT #: AR0ALA33
STYLE: LINEAR
COLOR: GRAPHITE
SIZE: 12" x 24"

RUBBER BASE (RB)

RB-1 MANUFACTURER: JOHNSONITE
SERIES: TRADITIONAL WALL BASE
STYLE: 4" COVE
COLOR: 55 SILVER GREY

PAINT (P)

P-1 MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7005 PURE WHITE GENERAL CEILING COLOR

P-2 MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7064 PASSIVE GENERAL WALL COLOR

PLASTIC LAMINATE (PL)

PL-1 MANUFACTURER: WILSONART
PATTERN: 7953-38 HARVEST MAPLE
FINISH: FINE VELVET TEXTURE

SOLID SURFACE (SS)

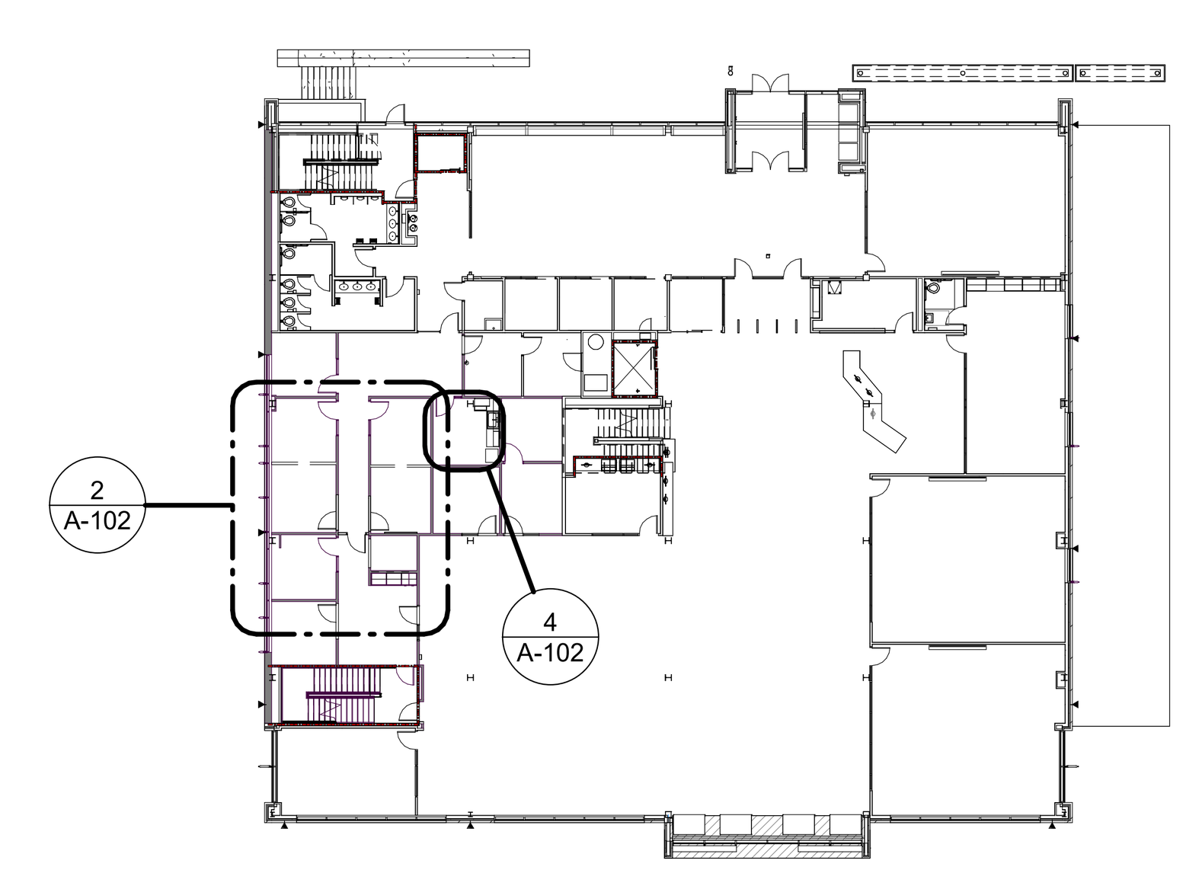
SS-1 MANUFACTURER: CORIAN
COLOR: PEARL GRAY

DEMOLITION PLAN NOTES TO SHEET

DD1 REMOVE EXISTING DOOR, FRAME AND HARDWARE IN THEIR ENTIRETY. TURN DOORS AND HARDWARE OVER TO OWNER.
DF1 REMOVE EXISTING CARPET TILE FLOOING AND SALVAGE FOR REUSE IN AREAS OF PATCHING. PREPARE SLAB FOR NEW FINISHES AS SCHEDULED
DF2 REMOVE EXISTING WALL BASE AND PREPARE WALL FOR WALL BASE AS SCHEDULED
DF3 REMOVE EXISTING WALL BASE AT NEW OPENING 8' ON EACH SIDE OR TO NEAREST CORNER AND PREPARE WALL TO RECIEVE NEW FINISHES
DW1 REMOVE EXISTING GYPSUM BOARD AND METAL STUD WALL FOR NEW STOREFRONT
DW2 REMOVE EXISTING GYPSUM BOARD AND METAL STUD WALL TO 1" BELOW CEILING

ROOM FINISH SCHEDULE - SECOND FLOOR

ROOM NO	ROOM NAME	FLOOR FINISH: FLOOR	FLOOR FINISH: BASE	WALL FINISH	CEILING	REMARKS
120	OFFICE	PATCH EXISTING	RB-1	P-2	P-1	-
121	CONFERENCE	PATCH EXISTING	RB-1	P-2	P-1	-
116	WORK ROOM	LVT-1	RB-1	P-2	P-1	BASE BID



SECOND FLOOR KEY PLAN

GENERAL FINISH NOTES

A. WHERE SPECIFIC PRODUCTS ARE INDICATED ITEM DESIGNATION INCORPORATES QUALITY AESTHETIC APPEARANCE. SEE SPECIFICATIONS FOR EQUAL MANUFACTURERS PER PRODUCT TYPE INDICATED. ACTUAL COLOR SELECTION MAY VARY PER BIDDING OUTCOME. DEPENDING ON LOCATION OF ITEM, ALTERNATES SHALL MATCH IN COLOR/ TEXTURE, AS WELL AS PERFORMANCE CRITERIA, AS APPROVED BY ARCHITECT.

B. ALL PAINT COLORS AND LOCATIONS ARE TO BE FIELD VERIFIED WITH ARCHITECT PRIOR TO INSTALLATION. PAINT-TO-PAINT COLOR TRANSITIONS ARE TO OCCUR AT INSIDE CORNERS ONLY, UNLESS APPROVED IN THE FIELD BY ARCHITECT.

C. PAINT ALL GYPSUM SOFFITS P-1 UNLESS NOTED OTHERWISE.

D. PROVIDE FINISH PAINT SYSTEM BEHIND ALL CABINETS, SHELVING, MARKER BOARDS, TACK BOARDS, SMART BOARDS, AND ALL OTHER WALL MOUNTED (SEMI-PERMANENT) ITEMS, UNLESS NOTED OTHERWISE.

E. ALL INTERIOR HOLLOW METAL DOOR FRAMES TO BE PAINTED TO MATCH ADJACENT WALLS UNLESS NOTED OTHERWISE.

F. PROVIDE SCHEDULED WALL BASE AT ALL EXPOSED SIDES OF ALL CASEWORK UNLESS NOTED OTHERWISE.

G. SCHEDULED BASES SHALL WRAP CORNERS AT DOORS & WINDOWS & RETURN TO JAMB, UNLESS NOTED OTHERWISE.

H. SCHEDULED FLOOR FINISHES SHALL TERMINATE AT THE CENTER OF THE DOOR(S) IN THE CLOSED POSITION WHEN FLOOR FINISH CHANGES (MATERIAL OR COLOR). SCHEDULED FLOOR FINISH PATTERN SHALL EXTEND AND ALIGN AT DOORS IF SAME MATERIAL EXTENDS BETWEEN TWO ADJACENT ROOMS.

I. SCHEDULED FLOOR FINISHES SHALL EXTEND CONTINUOUSLY UNDERNEATH BASE CABINETRY AND OTHER SEMI-PERMANENT FLOOR MOUNTED ITEMS.

J. PROVIDE SELF-LEVELING FLOOR LEVELER AND/OR PATCHING MATERIALS TO MAINTAIN SUBSTRATE LEVELNESS AS REQUIRED BY FLOORING MANUFACTURER AND AS REQUIRED TO MAINTAIN ACCESSIBILITY DIMENSIONS AT FLOOR TRANSITIONS.

K. PROVIDE TRANSITION STRIPS AT ALL CONDITIONS WHERE FLOORING MATERIALS CHANGE. ALL TRANSITION STRIPS SHALL MEET ADAAG. WHERE PORCELAIN TILE TRANSITIONS TO ANOTHER FLOORING SURFACE, METAL TRANSITION STRIPS APPROVED DURING SUBMITTAL PROCESS SHALL BE INSTALLED. RUBBER TRANSITION STRIPS SHALL BE PROVIDED AT ALL OTHER FLOORING TRANSITIONS UNLESS NOTED OR DETAILED OTHERWISE.

L. PROVIDE PAINT MOCK-UP SAMPLES IN FIELD FOR FINAL SELECTION OF ALL PAINT COLORS. (MINIMUM 10'X10' FOR WALLS & CEILINGS). PROVIDE LIGHTING EQUAL TO PERMANENT LIGHTING FOR REVIEW.

M. PREPARE ALL EXISTING SURFACES AS REQUIRED TO RECEIVE NEW FINISHES AS SCHEDULED.

N. PAINT ALL SIDES OF NEW AND PATCHED WALLS AT EXISTING BUILDING. PAINT TO NEAREST CORNER, DOOR OR JOINT TO PROVIDE SMOOTH TRANSITION IN COLOR AND FINISH. COLOR TO MATCH EXISTING UNO.

O. WHERE MARKER BOARDS, TACK BOARDS, SMART BOARDS, ETC. ARE REMOVED, PREPARE EXISTING WALL AS REQUIRED TO RECEIVE NEW FINISHES AS SCHEDULED.

P. WHERE NEW OUTLETS OR THERMOSTATS OR PLUMBING LINES ARE ADDED OR REMOVED OR RELOCATED AND WHERE BLOCKING IS ADDED, PATCH GYPSUM WALLS SMOOTH AND FLUSH AND PAINT TO MATCH EXISTING AT AREAS OF WORK. REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR EXTENT OF OF WORK.

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STATE OF SOUTH CAROLINA QUACKENBUSH ARCHITECTS + PLANNERS LLC Columbia, SC No. 100028 REGISTERED ARCHITECTS

PROJECT TITLE
MTC - SUITE RENOVATIONS IN LRC AT BELTLINE CAMPUS
MIDLANDS TECHNICAL COLLEGE
316 S BELTLINE BOULEVARD COLUMBIA, SC

PHASE
CONSTRUCTION DOCUMENTS

ISSUE DATE	8.26.22
PROJECT NO.	22.301.00
STATE PROJECT NO.	H59-N187-CL

REVISION DATE

TITLE
SECOND FLOOR - ENLARGED SUITE

SHEET NO
A-102

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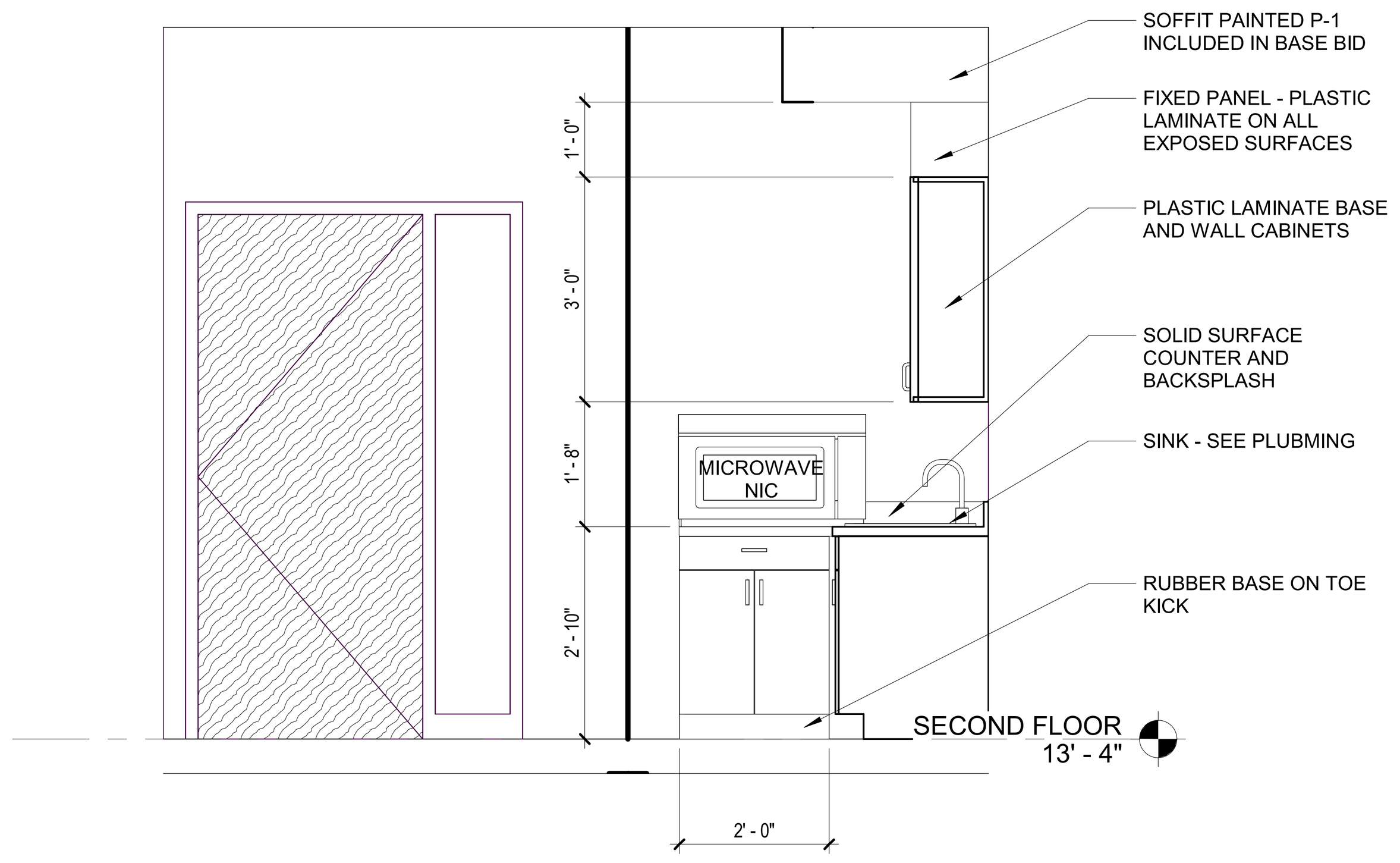
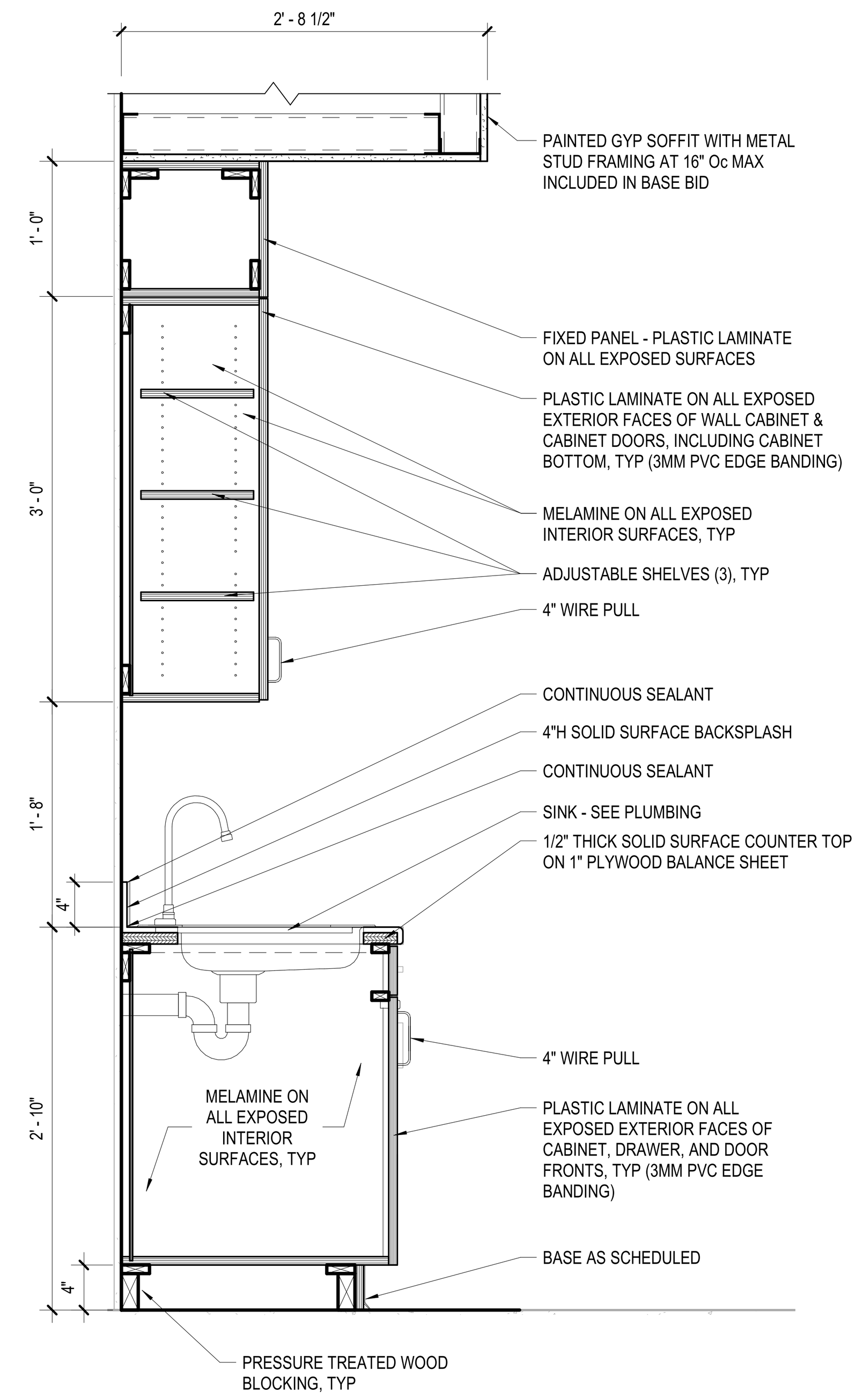
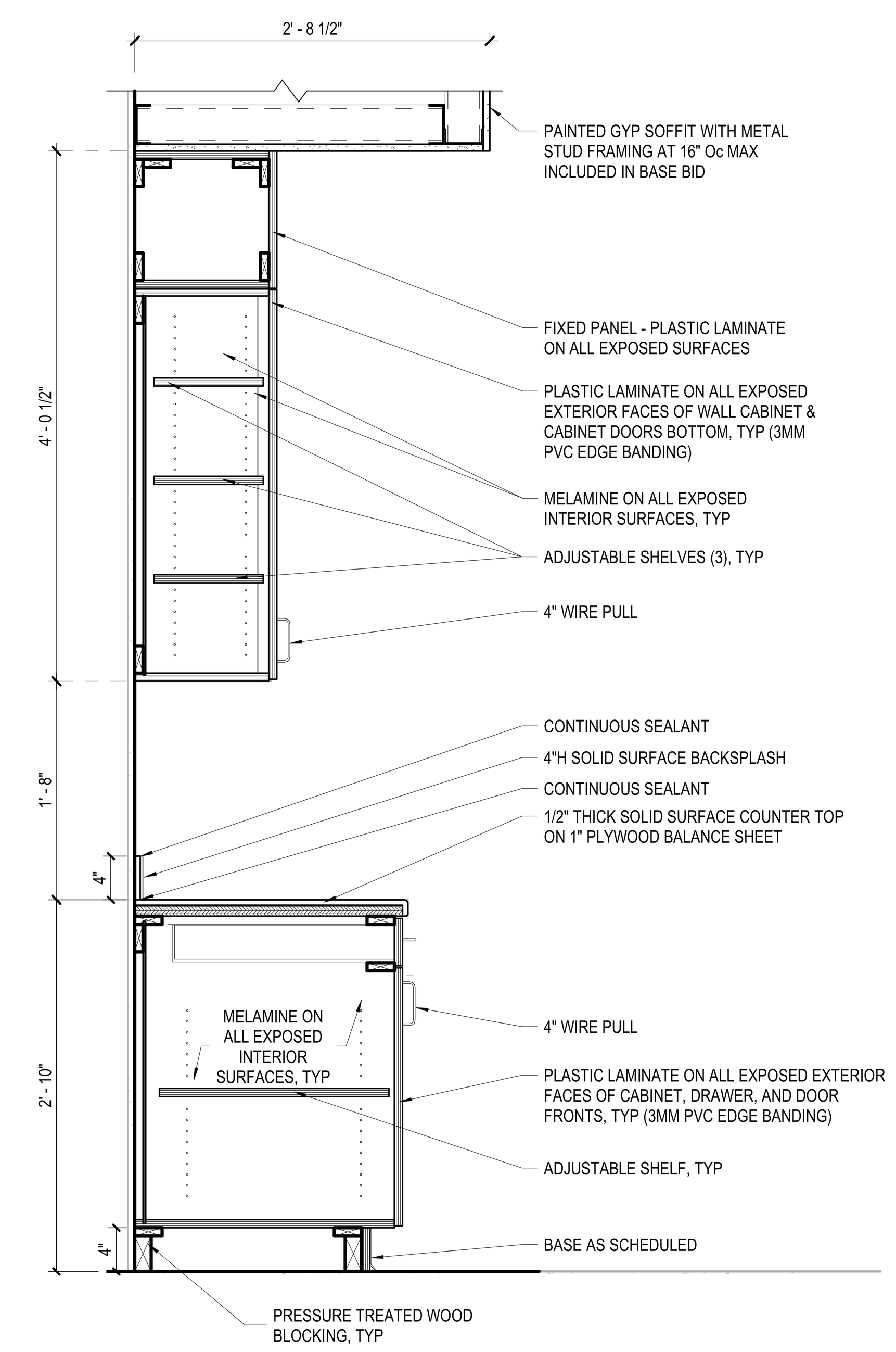


1 A-510 ELEVATION CASEWORK - NORTH
SCALE: 1/2" = 1'-0"



5 A-510 CASEWORK SECTION - SINK
SCALE: 1" = 1'-0"

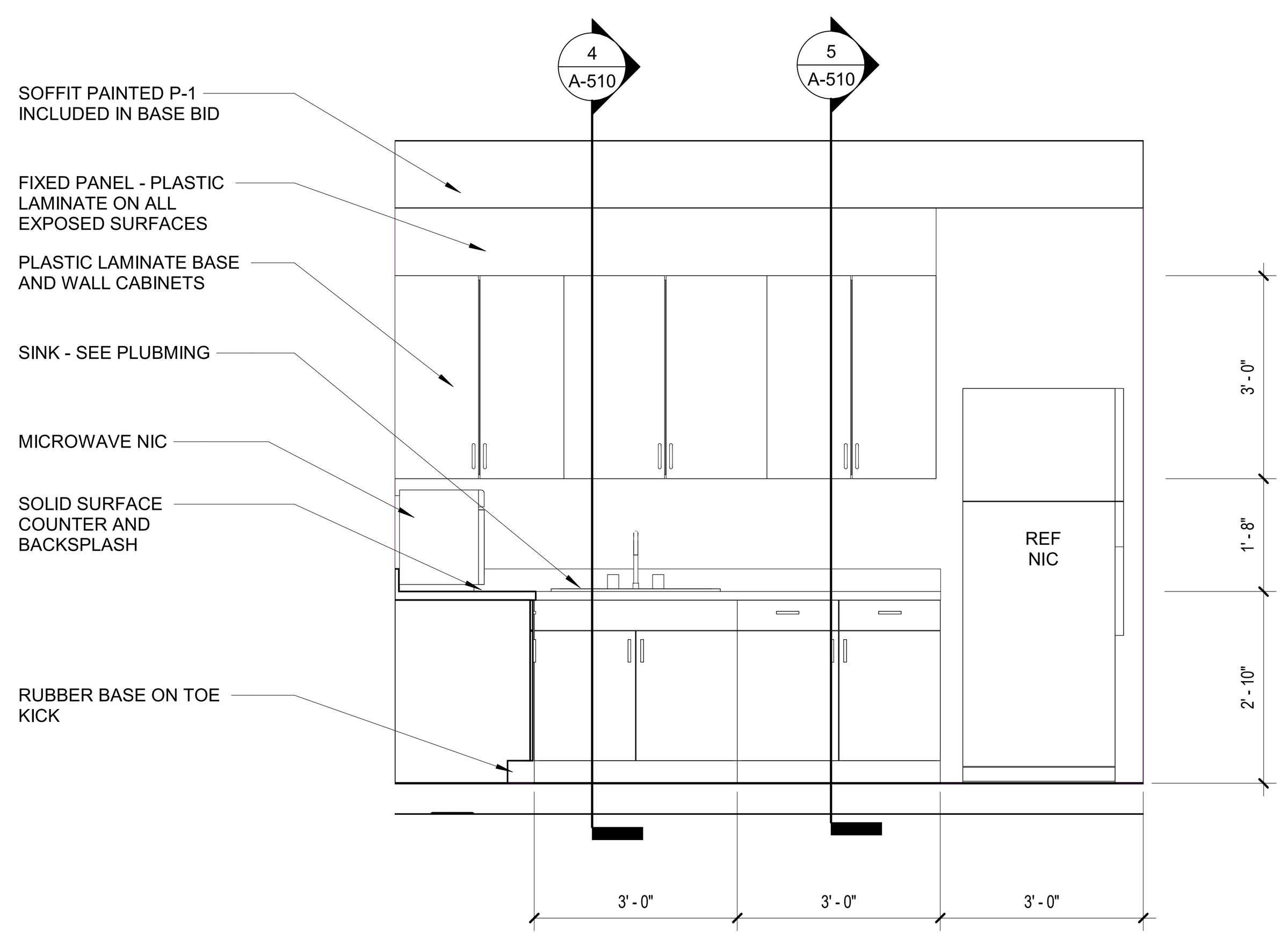


4 A-510 CASEWORK SECTION - BASE AND WALL CABINETS
SCALE: 1" = 1'-0"

GENERAL CASEWORK NOTES

NOTES APPLY TO ALL CASEWORK & SHELVING SPECIFIED IN DIVISION 6
CASEWORK AND COUNTERTOPS WILL BE INSTALLED UNDER A SEPARATE CONTRACT - FOR REFERENCE ONLY

A. MINOR DISCREPANCIES/ DIFFERENCES IN CASEWORK DIMENSIONS ARE ACCEPTABLE. ALL CASEWORK SHALL ALIGN AS SHOWN IN INTERIOR ELEVATIONS.
B. CASEWORK SECTIONS AND DETAILS ARE DIAGRAMMATIC AND MAY VARY BY FABRICATOR OR MANUFACTURER. DISCREPANCIES FROM DESIGN INTENT SHALL BE NOTED IN SUBMITTAL FOR REVIEW AND APPROVAL BY ARCHITECT
C. SEE FINISH MATERIAL LIST AND ELEVATIONS FOR CASEWORK MATERIAL FINISH SPECIFICATIONS.
D. VERIFY MOUNTING HEIGHTS AND CLEARANCES AT ALL LOCATIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES WITH THE CONTRACT DRAWINGS.
E. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION.
F. REFER TO SPECIFICATION SECTIONS FOR ADDITIONAL CONSTRUCTION, INSTALLATION, HARDWARE, FINISH AND/OR OTHER REQUIREMENTS.
G. PROVIDE ALL REQUIRED AND/OR NECESSARY BACKING, BLOCKING AND OTHER STRUCTURAL SUPPORT.
H. ALL END UNITS WITH EXPOSED SIDES SHALL HAVE SCHEDULED FINISH EQUAL TO ALL OTHER EXPOSED SURFACES.
I. PROVIDE CONTINUOUS SEALANT BETWEEN BACKSPLASH & WALL AND BETWEEN BACKSPLASH & COUNTERTOP.
J. PROVIDE FILLER STRIPS AT END OF CASEWORK & WALL, (CONT AT TOP AND BOTTOM OF WALL CABINETS) UNLESS NOTED OTHERWISE. FILLER STRIPS AT BASE CABINETS SHALL FOLLOW TOE KICK PROFILE. FILLER STRIPS SHALL BE SCRIBED TO ADJACENT SURFACE. FILLER STRIPS SHALL BE A MAXIMUM OF 6" UNLESS NOTED OTHERWISE.
K. PROVIDE 4" BACKSPLASH (TO MATCH COUNTERTOP MATERIAL) AT ALL COUNTERTOPS INCLUDING BACK AND SIDES UNLESS NOTED OTHERWISE.
L. ALL CABINETS AND SHELVING SHALL BE PLASTIC LAMINATE FINISH UNLESS NOTED OTHERWISE. ≤
M. ADJUSTABLE SHELVES IN CABINETS ARE NOT SHOWN FOR CLARITY, SEE CASEWORK SECTIONS FOR SHELVING REQUIREMENTS.
N. CASEWORK FABRICATOR / MANUFACTURER SHALL VERIFY AND COORDINATE ALL PLUMBING FIXTURES AND ASSOCIATED PIPING TO FIT WITHIN CASEWORK DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
O. ALL BASE CABINETS SHALL HAVE TOE KICK WITH FINISH MATCHING THE BASE CABINET UNLESS NOTED OTHERWISE.
P. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL ELECTRICAL INFORMATION. COORDINATE ACTUAL LOCATION OF ELECTRICAL COMPONENTS (POWER, DATA, LIGHTS, ETC.) AND ROUTING OF CONDUIT WITH CASEWORK CONSTRUCTION.
Q. VERIFY AND COORDINATE ALL EQUIPMENT SIZES, REQUIRED CLEARANCES, AND SYSTEM ROUGH-IN COMPONENTS. EQUIPMENT MAY BE CONTRACTOR FURNISHED OR OWNER FURNISHED.

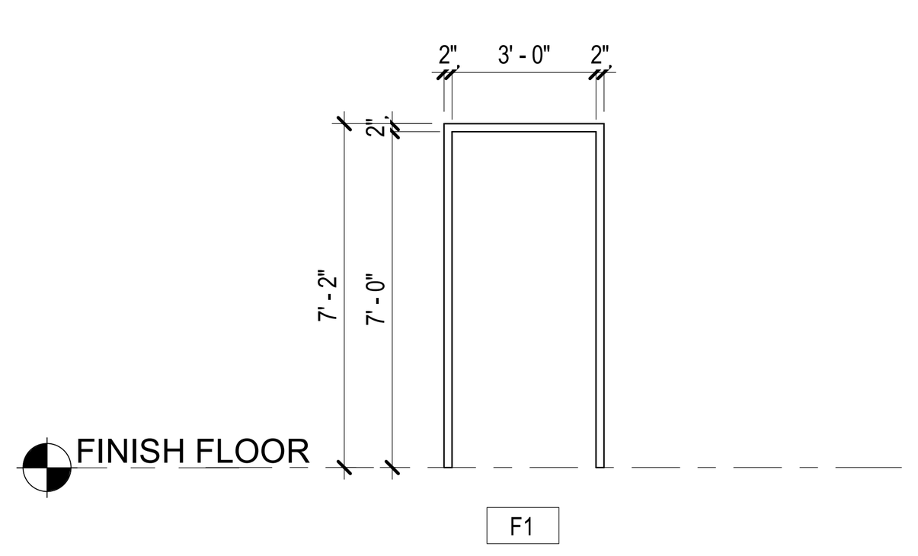


3 A-510 CASEWORK ELEVATION - EAST
SCALE: 1/2" = 1'-0"

ALTERNATE #1 - CASEWORK, COUNTERTOP, SINK AND FAUCET

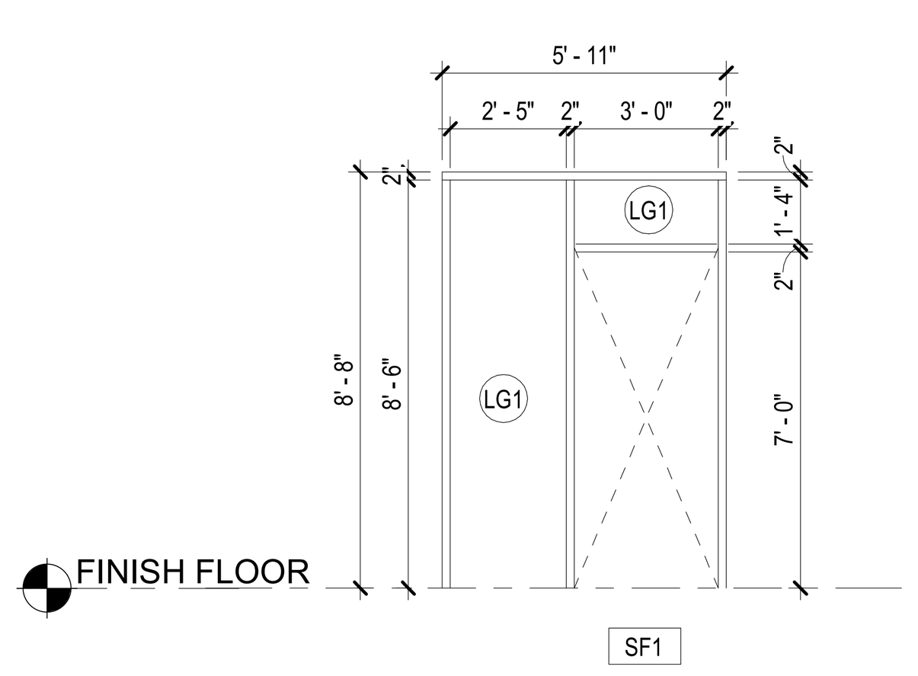
DOOR SCHEDULE

	DOOR				FRAME						
	OPENING SIZE					DETAILS					
DOOR NO.	WIDTH	HEIGHT	TYPE	MAT'L	TYPE	HEAD	JAMB	SILL	RATING	HARDWARE	REMARKS
124A	3' - 0"	7' - 0"	EXISTING	WD	F1	H1	J1	-	-	1	RE-USE EXISTING DOOR REMOVED FROM OFFICE 120
124B	3' - 0"	8' - 6"	EXISTING	WD	SF1	H1A	J1A/J1B	-	-	1	RE-USE EXISTING DOOR REMOVED FROM OFFICE 121



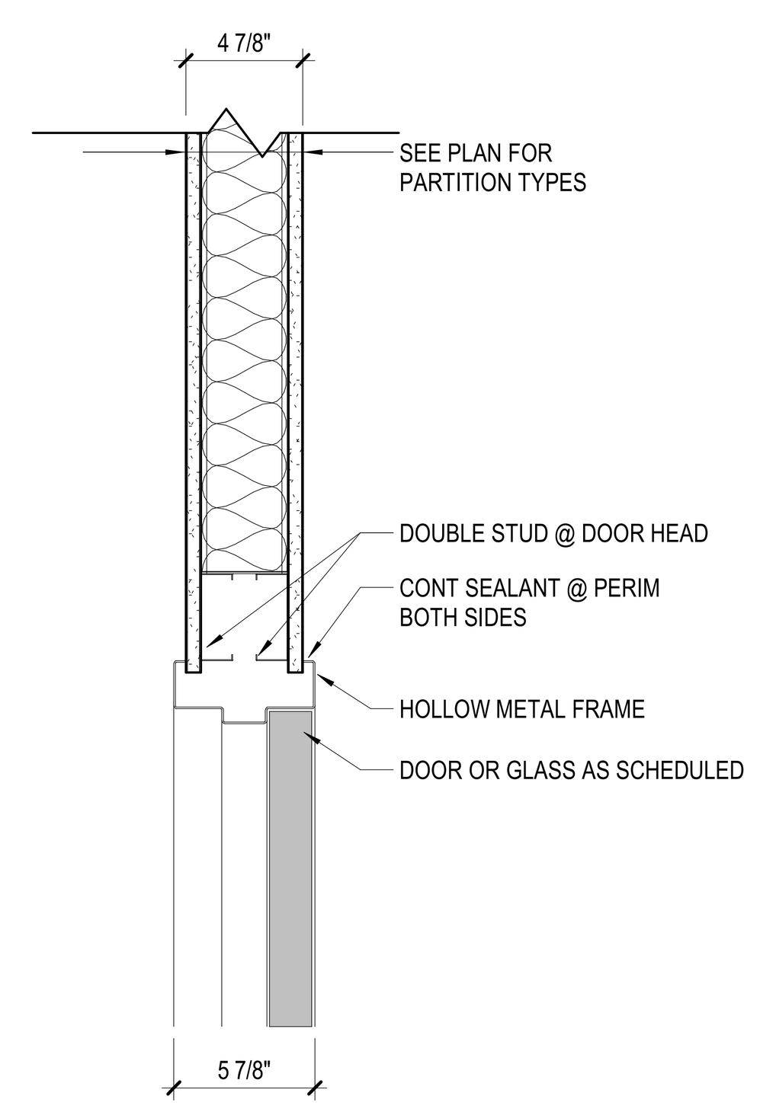
HOLLOW METAL W/ PAINT FINISH

DOOR FRAME

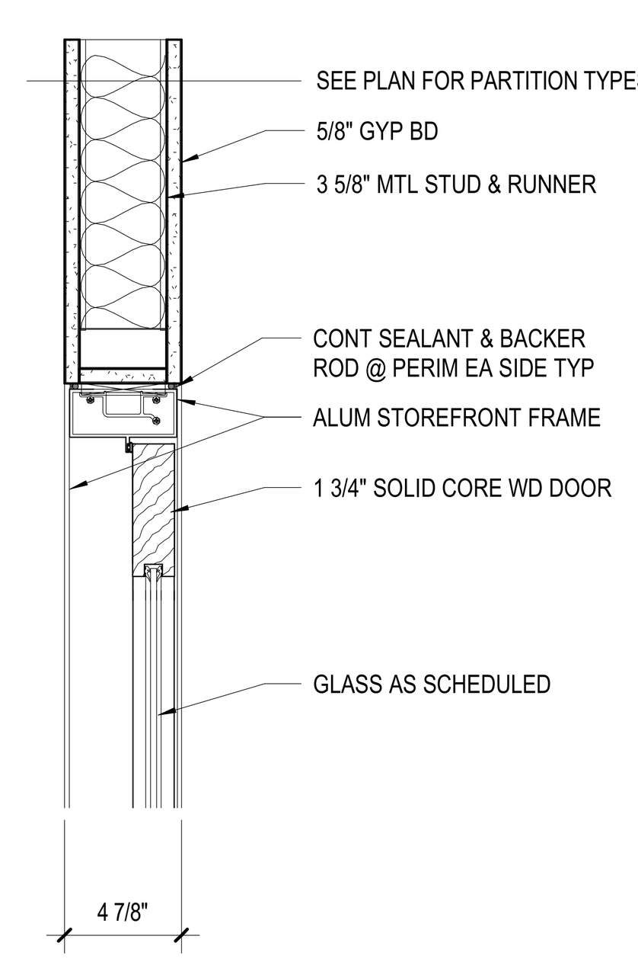


CLEAR ANNODIZED ALUMINUM FINISH

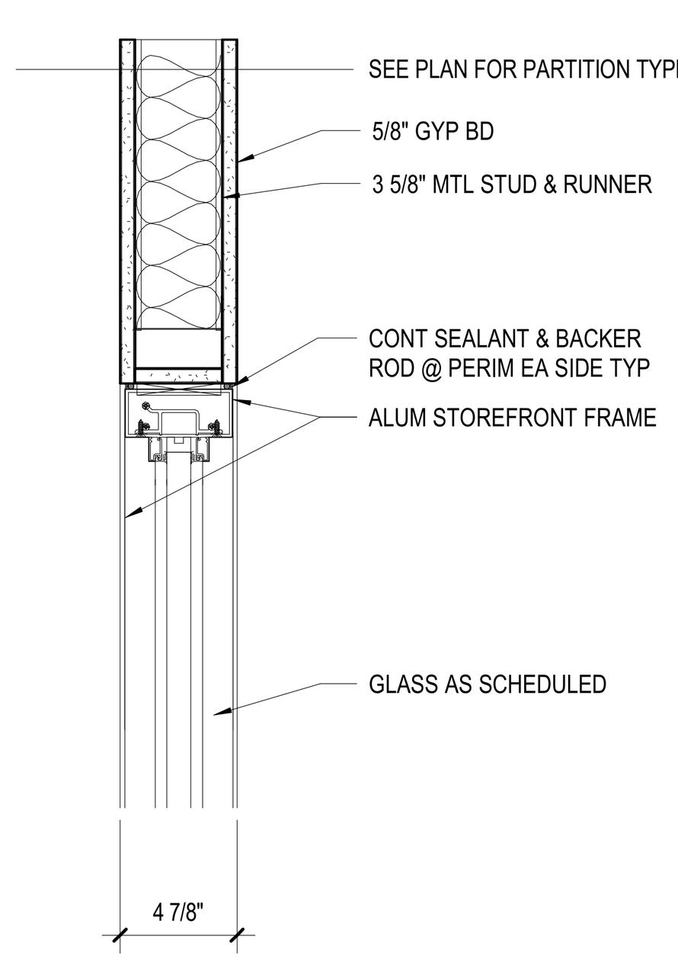
STOREFRONT



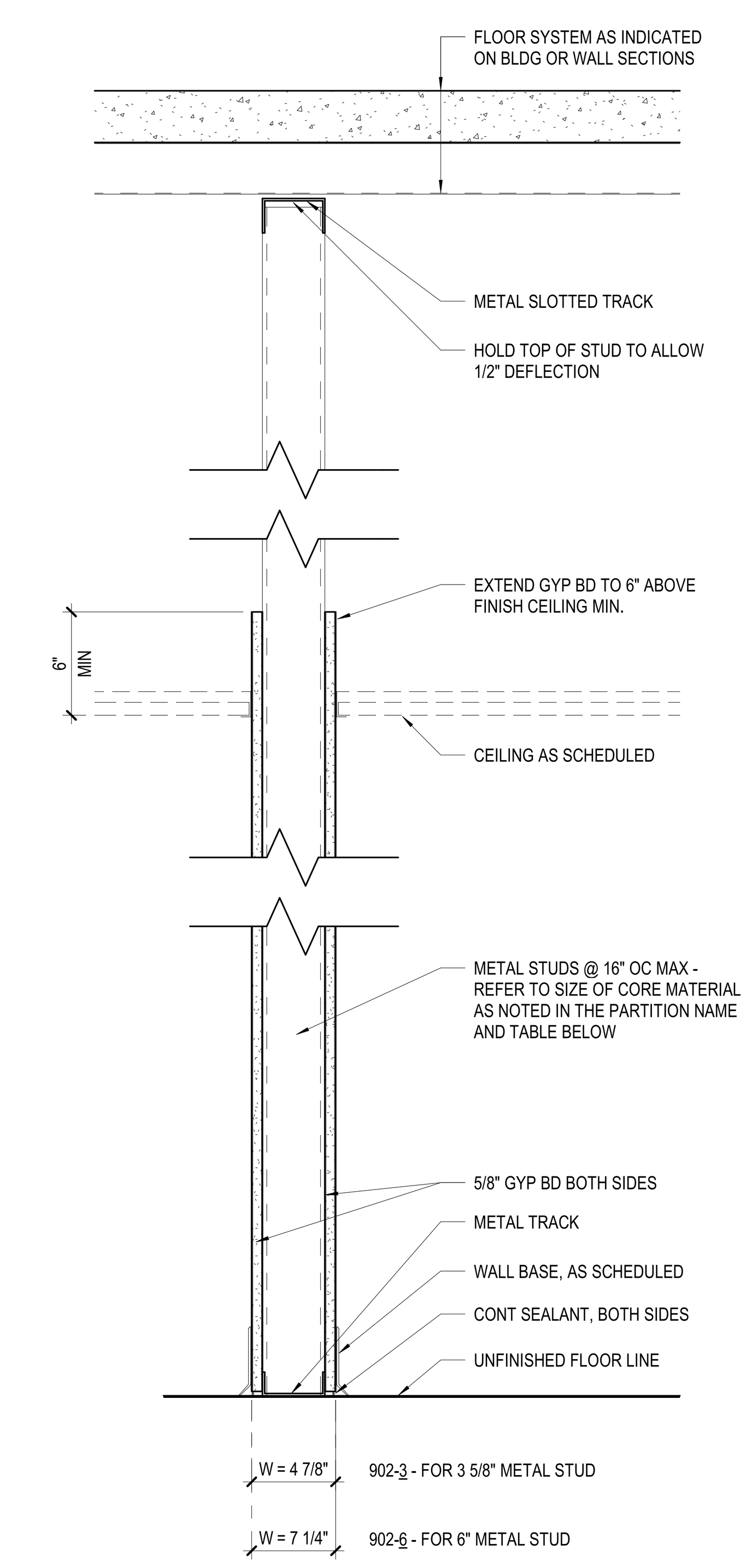
H1 - HEAD DETAIL | SCALE 1-1/2" = 1'-0"



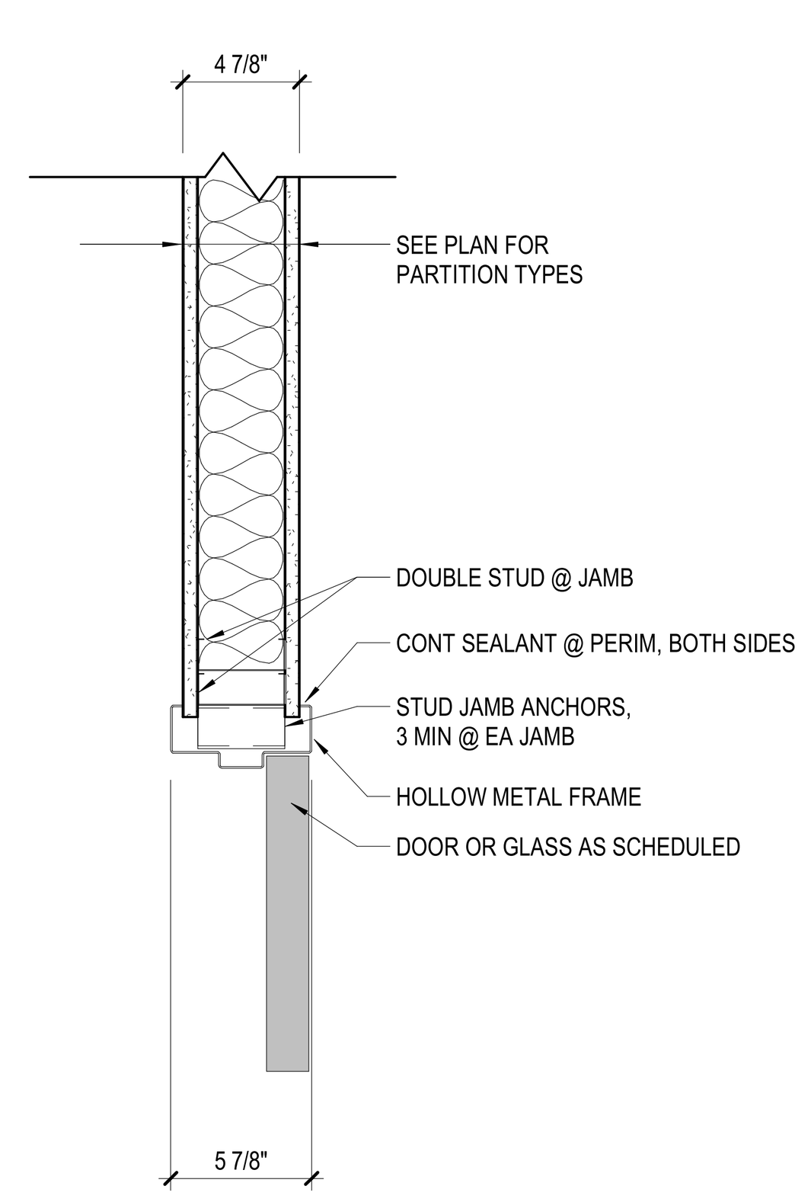
H1A HEAD DETAIL | SCALE 1-1/2" = 1'-0"



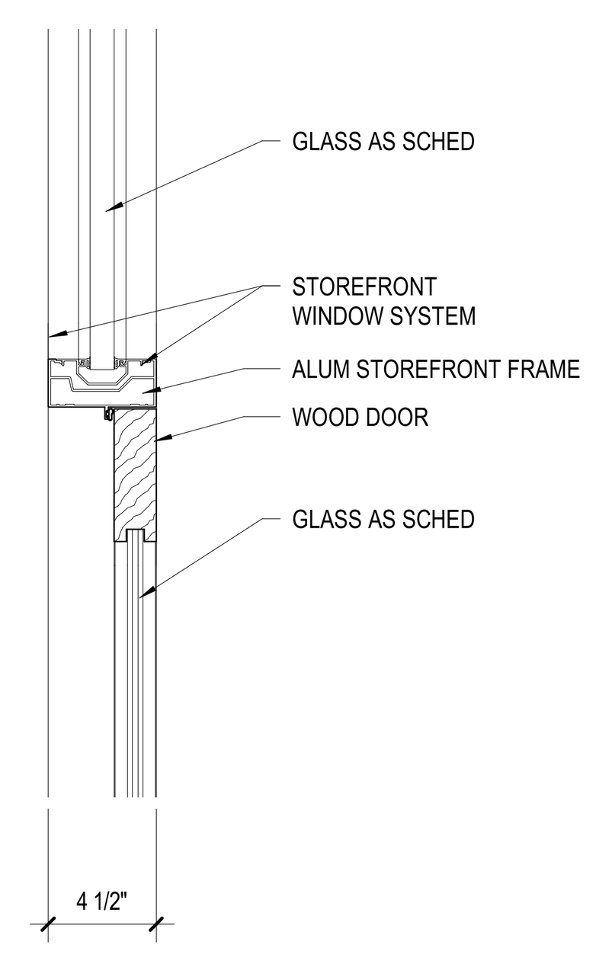
H2 HEAD DETAIL | SCALE 1-1/2" = 1'-0"



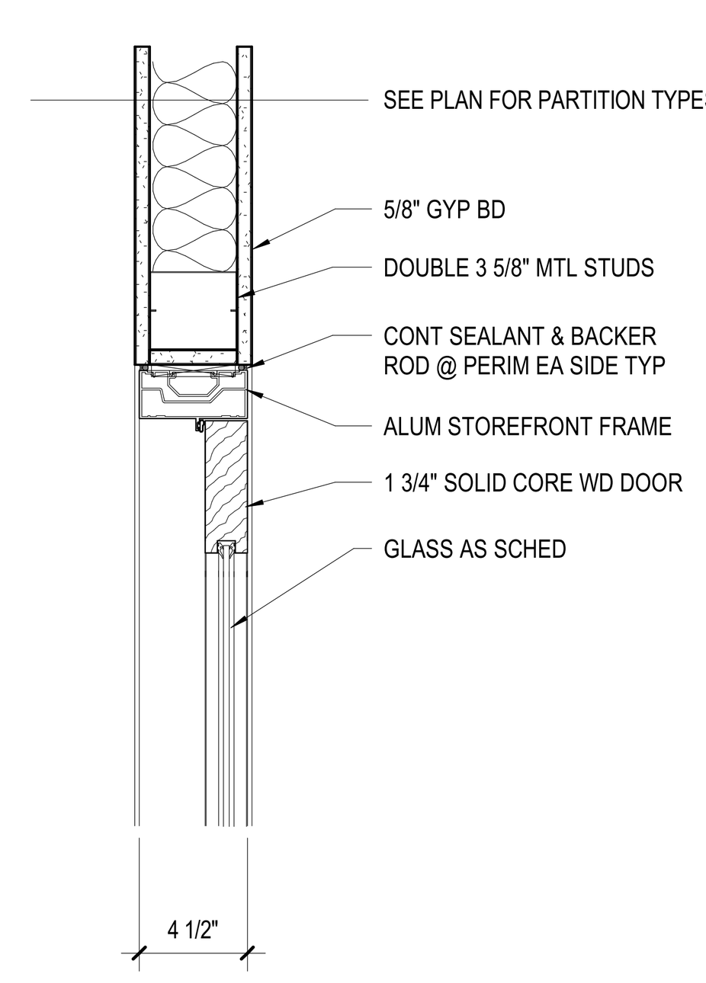
PARTITION NAME	SIZE CORE MATERIAL	FIRE RATING	TEST NO.	ACOUSTIC RATING	SCALE
902-2	NOT USED	NA	NA	NA	1-1/2" = 1'-0"
902-3	3 5/8" (3)				
902-4	NOT USED				
902-6	NOT USED				
902-8	NOT USED				



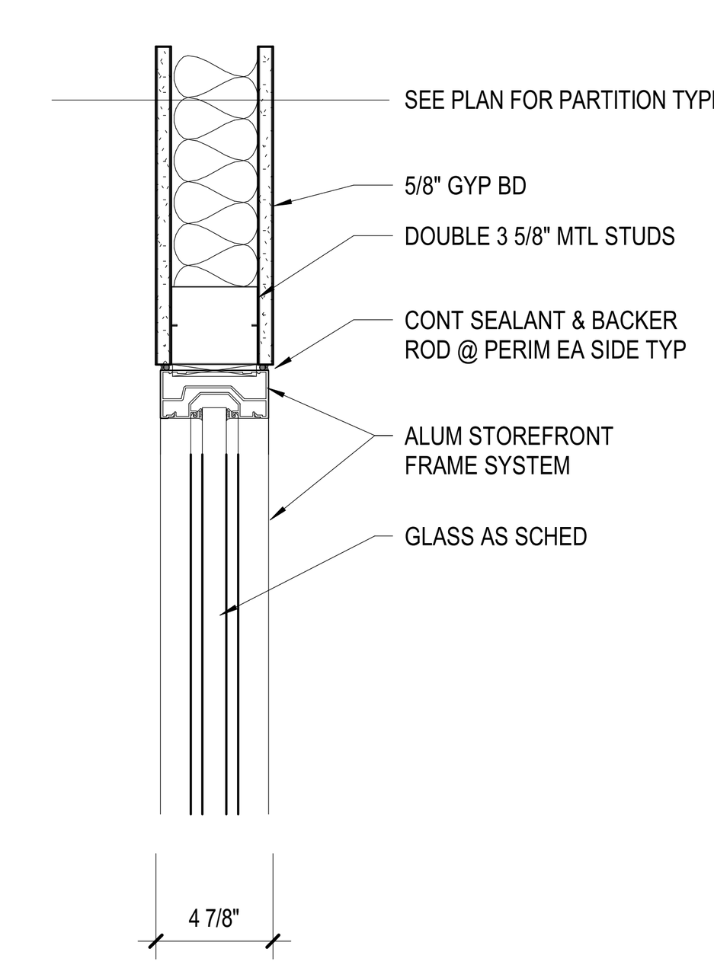
J1 - JAMB DETAIL | SCALE 1-1/2" = 1'-0"



J1A JAMB DETAIL | SCALE 1-1/2" = 1'-0"



J1B JAMB DETAIL | SCALE 1-1/2" = 1'-0"



J2 JAMB DETAIL | SCALE 1-1/2" = 1'-0"

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A/E SEAL
STATE OF SOUTH CAROLINA BARBARA HALLER Columbia, SC 6198 REGISTERED ARCHITECT
[illegible]

CORPORATE SEAL
STATE OF SOUTH CAROLINA QUACKENBUSH ARCHITECTS + PLANNERS LLC Columbia, SC No. 100028 REGISTERED ARCHITECTS

PROJECT TITLE
MTC - SUITE RENOVATIONS IN LRC AT BELTLINE CAMPUS
MIDLANDS TECHNICAL COLLEGE
316 S BELTLINE BOULEVARD COLUMBIA, SC

PHASE
CONSTRUCTION DOCUMENTS

ISSUE DATE 8.26.22
PROJECT NO. 22.301.00
STATE PROJECT NO. H59-N187-CL

REVISION DATE

TITLE
CASEWORK AND DOOR SCHEDULE

SHEET NO
A-510

8/31/2022 8:42:06 AM
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VAV BALANCE SCHEDULE

TAG	MAXIMUM CFM	MINIMUM CFM
2-2	500	150
2-3	500	150
2-4	650	200
2-6	250	100

1. BALANCE VAV BOXES TO AIRFLOW SHOWN.

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL MECHANICAL CODE, 2009 INTERNATIONAL ENERGY CONSERVATION CODE, AND 2006 SMACNA HVAC DUCT CONSTRUCTION STANDARD. ALL LOCAL CODES OR REQUIREMENTS STILL APPLY.
2. VISIT SITE PRIOR TO BIDDING. THIS CONTRACTOR SHALL DETERMINE DIFFICULTY OF INSTALLATION AND REFLECT THIS IN HIS BIDDING.
3. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DOORS, WINDOWS, AIR DISTRIBUTION, ETC.
4. DO NOT SCALE DRAWINGS. THIS CONTRACTOR SHALL VERIFY ALL EXISTING ITEMS AND LOCATIONS IN THE FIELD.
5. REMOVAL AND REPLACEMENT OF CEILING, AS REQUIRED FOR INSTALLATION OF NEW WORK, SHALL BE DONE BY THIS CONTRACTOR.
6. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROL WIRINGALL WIRING SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE. CONTROL WIRING SHALL BE CONCEALED WITHIN WALL AND ALL CONTROL WIRING SHALL BE ROUTED IN EMT CONDUIT INDOORS.
7. LOCATE ALL SPACE CONTROL INSTRUMENTS 4'-0" ABOVE FINISHED FLOOR. COORDINATE LOCATIONS WITH ARCHITECTURAL ELEVATIONS TO AVOID ITEMS INCLUDING BUT NOT LIMITED TO CUSTOM FINISHES, FIXED CASEWORK, FURNITURE, AND DOOR SWINGS. IN THE EVENT OF CONFLICTS IN THE FIELD, THE CONTRACTOR SHALL BRING THIS TO THE ATTENTION OF THE A/E FOR FINAL APPROVAL OF LOCATION.
8. ITEMS REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY.
9. THIS CONTRACTOR SHALL PATCH ALL WALLS AND FINISHES TO MATCH EXISTING WHERE ALL ITEMS OR EQUIPMENT ARE REMOVED.
10. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING HVAC SYSTEMS FROM CONSTRUCTION DEBRIS, DUST AND DIRT FOR THE ENTIRE CONSTRUCTION DURATION. DUCT CLEANING AND UNIT/COIL CLEANING SHALL BE PERFORMED AS REQUIRED. PROTECTION SHALL INCLUDE MERV 13 FILTER MEDIA OVER ALL RETURN GRILLES AND RETURN DUCT OPENINGS TO PROTECT DUCTS AND EQUIPMENT. CONTRACTOR MUST INSPECT ALL EXISTING UNITS WITH THE OWNER PRIOR TO START OF WORK AND AT THE COMPLETION OF WORK.

DEMOLITION NOTES

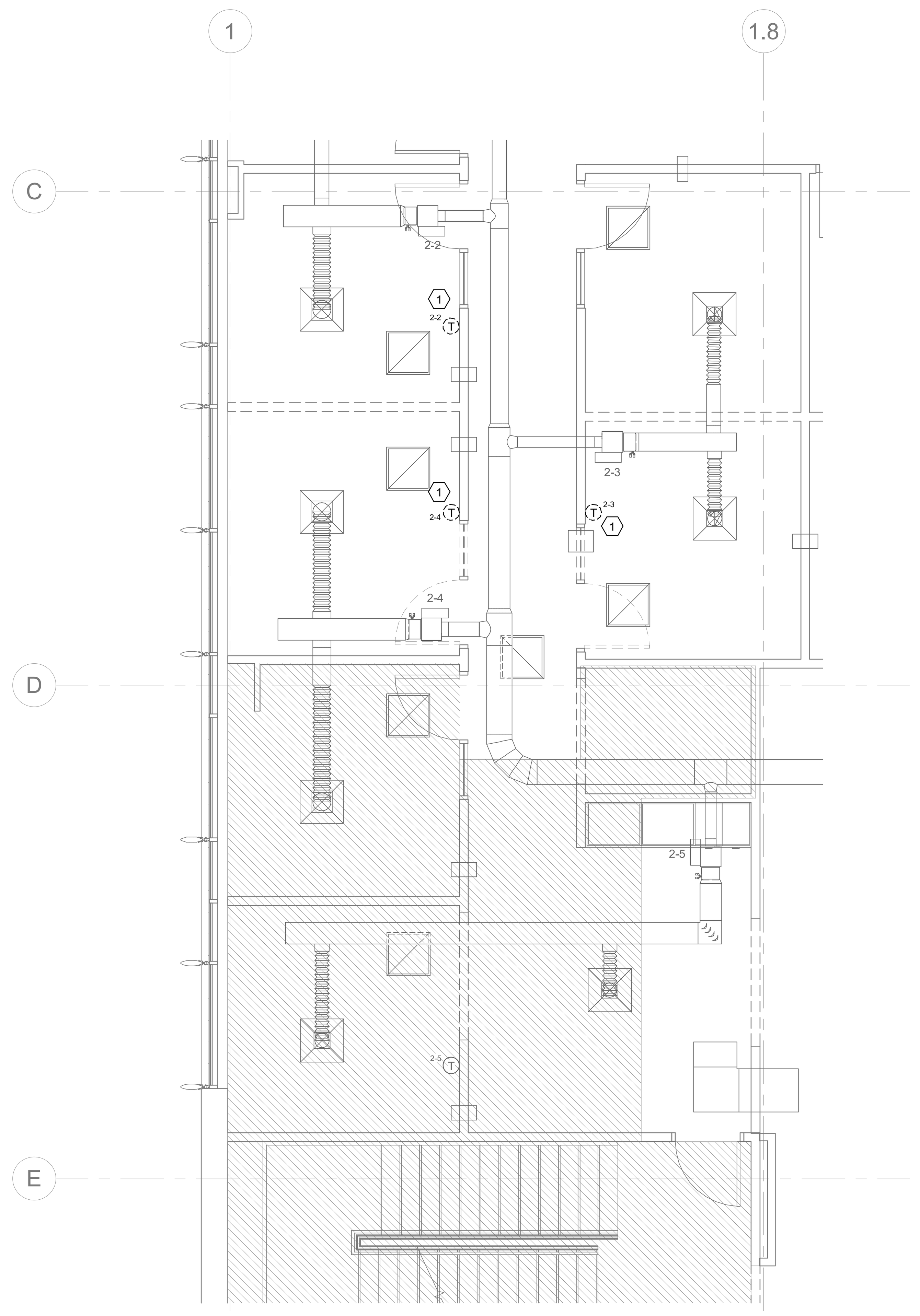
⟨1⟩ RELOCATE EXISTING THERMOSTAT AS SHOWN ON RENOVATION PLAN.

NOTES TO SHEET

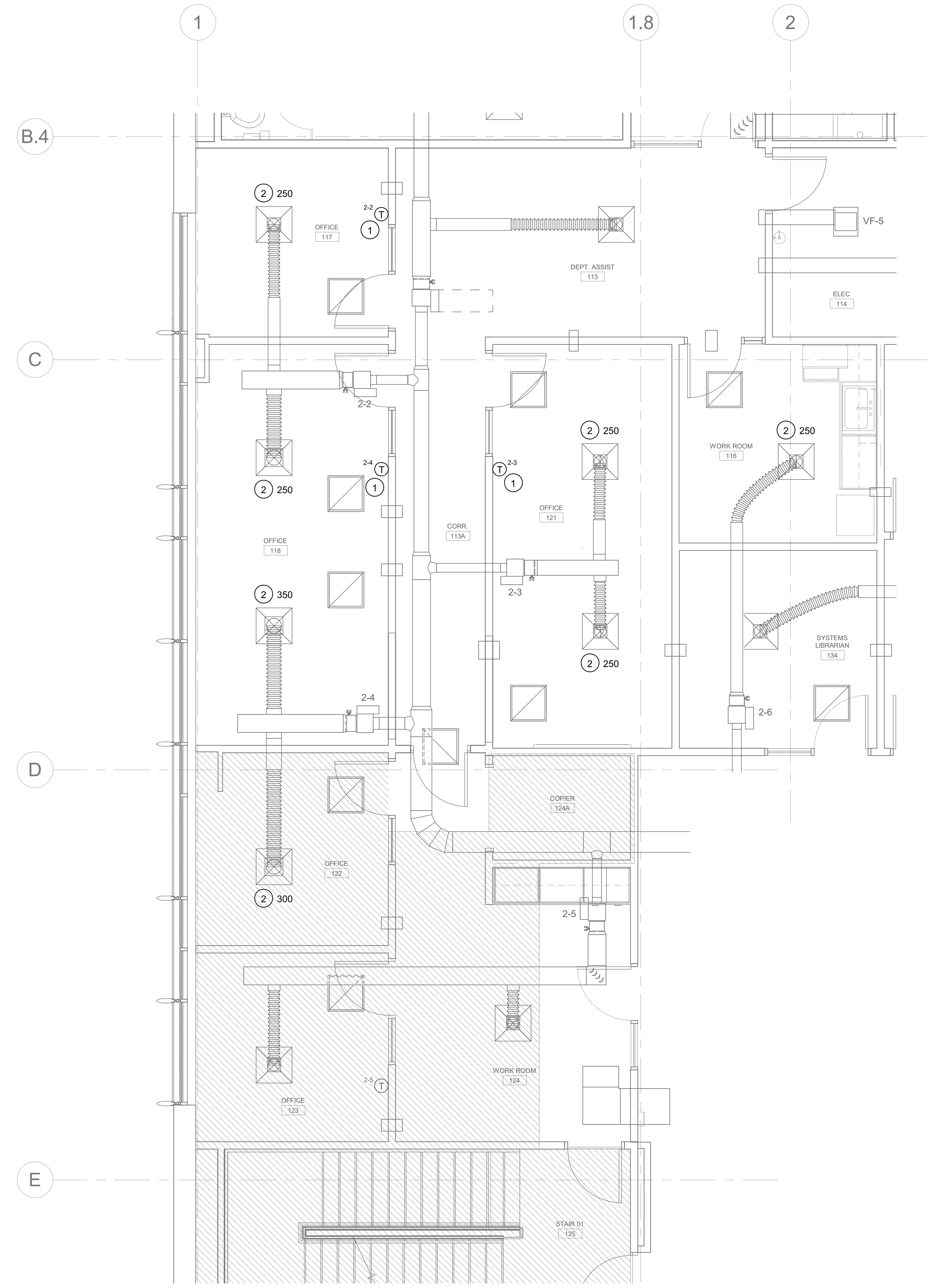
(1) RELOCATE THERMOSTAT AS SHOWN.
(2) BALANCE AIRFLOW AS SHOWN.

LEGEND

SYMBOL	DESCRIPTION
Ⓣ	THERMOSTAT
⊠	RECTANGULAR SUPPLY DUCTWORK
⧄	RETURN AND FRESH AIR DUCTWORK



1 SECOND FLOOR DEMOLITION PLAN
M-101
1/4" = 1'-0"



2 SECOND FLOOR RENOVATION PLAN
M-101
1/4" = 1'-0"

Swygert & Associates
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SOUTH CAROLINA PROFESSIONAL ENGINEER WILLIAM C. LIVINGSTON No. 17994 8-26-22
[illegible]

CORPORATE SEAL
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION SWYGERT AND ASSOCIATES, LTD. NO. C00227

PROJECT TITLE
MTC - SUITE RENOVATIONS IN LRC AT BELTLINE CAMPUS
MIDLANDS TECHNICAL COLLEGE
316 S BELTLINE BOULEVARD COLUMBIA, SC

PHASE
CONSTRUCTION DOCUMENTS

ISSUE DATE	8.26.22
PROJECT NO.	22.301.00
STATE PROJECT NO.	H59-N187-CL

REVISION DATE

TITLE
FLOOR PLANS, NOTES, SCHEDULES, AND LEGEND

SHEET NO
M-101

PLUMBING FIXTURE SCHEDULE

P. NO.	FIXTURE	MFGR.	NAME	MFGRS. NO.	SIZE	MIN. SUPPLY CW	MIN. SUPPLY HW	REMARKS
P-1	SINK	ELKAY	LUSTERTONE	LRAD2521653	25"x21¼"	1/2"	1/2"	WITH ZURN MODEL Z831B4-XL FAUCET, LK-35 CUP STRAINERS, McGUIRE H2167 1/2" CAST BRASS SUPPLIES WITH STOPS, AND McGUIRE 8912 1-1/2" P-TRAP.

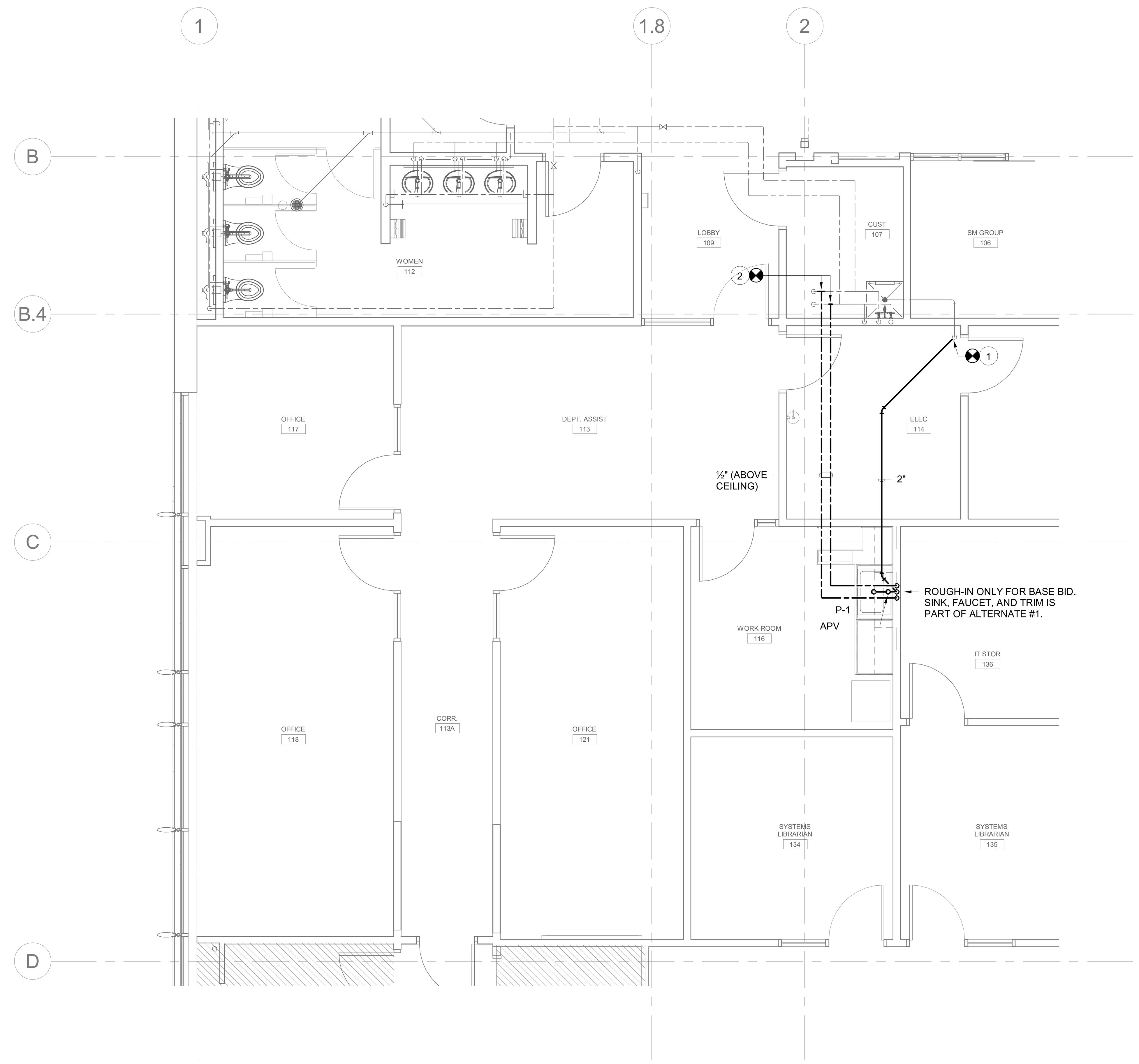
NOTE: SINK AND ASSOCIATED TRIM IS PART OF ALTERNATE #1.

GENERAL NOTES

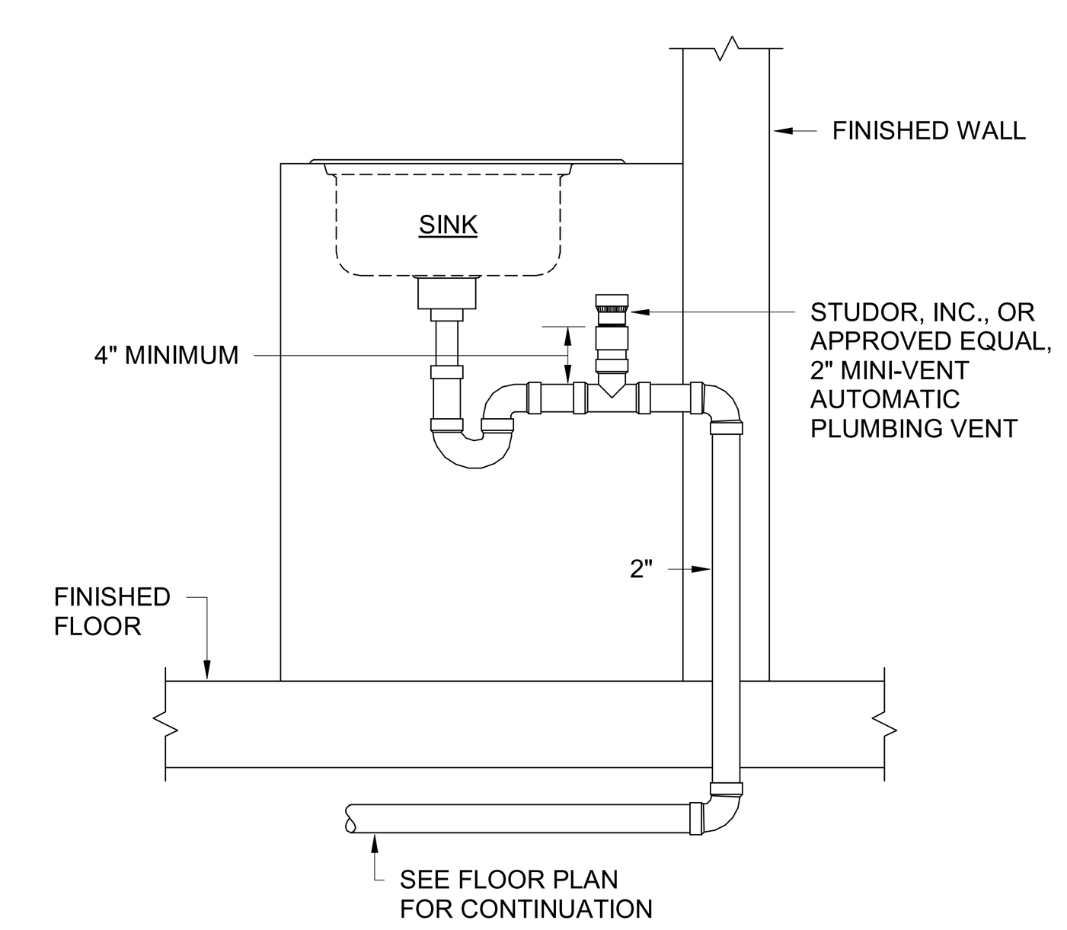
1. ALL WORK SHALL BE PERFORMED ACCORDING TO ALL LOCAL, STATE, NATIONAL CODES, AND THE 2018 INTERNATIONAL PLUMBING CODE.
2. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS, FIXTURE LOCATIONS, ETC.
3. EXCEPT WHERE PIPE SPACE IS PROVIDED OR UNLESS NOTED OTHERWISE, ALL SUPPLY, WASTE AND VENT RISERS SHALL BE RUN IN WALLS AND PARTITIONS.
4. COORDINATE CLOSELY WITH ALL WORK DONE UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE AND CONFLICT.
5. PROVIDE FOR ACCESS TO ALL EQUIPMENT REQUIRING CLEANING OR ADJUSTMENT.
6. ALL PIPING INSULATION SHALL BE RUN CONTINUOUSLY.

LEGEND

SYMBOL	DESCRIPTION
———	SANITARY WASTE LINE
—— — ——	DOMESTIC COLD WATER LINE
—— — — ——	DOMESTIC HOT WATER LINE
—⋈—	SHUTOFF VALVE
—○ , —⊃	PIPE TURNS TO, AWAY
AFF	ABOVE FINISHED FLOOR
APV	AUTOMATIC PLUMBING VENT
●	CONNECTION POINT OF NEW TO EXISTING



1 P-101 SECOND FLOOR RENOVATION PLAN
1/4" = 1'-0"



AUTOMATIC PLUMBING VENT DETAIL (ALTERNATE #1)
NO SCALE

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A/E SEAL
SOUTH CAROLINA PROFESSIONAL ENGINEER No. 15574 TODD F. SWYGERT 8-26-22

CORPORATE SEAL
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION SWYGERT AND ASSOCIATES, LTD. NO. C00227

PROJECT TITLE
MTC - SUITE RENOVATIONS IN LRC AT BELTLINE CAMPUS
MIDLANDS TECHNICAL COLLEGE
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COLUMBIA, SC

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TITLE
FLOOR PLANS, NOTES, SCHEDULE, AND LEGEND

SHEET NO
P-101

EXISTING PANELBOARD: **RP2**
SUPPLIED FROM: T-2
MOUNTING: Surface

DISTRIBUTION: 120/208 Wye
PHASES: 3
WIRES: 4
ENCLOSURE: Type 1

A.I.C. RATING: 14,000
MAINS RATING: 400 A
MCB RATING: 400 A

WIRE SIZE	NTS	CKT	DESCRIPTION	BKR	P	A		B		C		P	BKR	DESCRIPTION	CKT	NTS	WIRE SIZE
		1	REC – BIBLIO #132	20	1	0.6	0.2					1	20	REC – BIBLIO #132	2		
		3	REC – BIBLIO #132	20	1			0.5	0.2			1	20	REC – BIBLIO #132	4		
		5	REC – LAB #131	20	1					0.4	0.2	1	20	REC – BIBLIO #132	6		
		7	REC – LAB #131	20	1	0.5	0.2					1	20	REC – BIBLIO #132	8		
		9	REC – LAB #131	20	1			0.8	0.2			1	20	REC – BIBLIO #132	10		
		11	REC – STAFF #129	20	1					0.4	0.2	1	20	REC – BIBLIO #132	12		
		13	REC – STAFF #129	20	1	0.4	0.2					1	20	REC – BIBLIO #132	14		
		15	REC – STAFF #129	20	1			0.4	0.2			1	20	REC – BIBLIO #132	16		
		17	REC – CLASS RM #103	20	1					0.5	0.2	1	20	REC – LAB #131	18		
		19	REC – CIRC DESK #126A	20	1	0.6	0.2					1	20	REC – LAB #131	20		
		21	REC – CIRC DESK #126A	20	1			0.8	0.2			1	20	REC – LAB #131	22		
		23	REC – CIRC DESK #126A	20	1					0.4	0.2	1	20	REC – LAB #131	24		
		25	REC – CLASS RM #103	20	1	0.2	0.2					1	20	REC – LAB #131	26		
		27	REC – STORAGE #128	20	1			0.4	0.2			1	20	REC – LAB #131	28		
		29	AUTO DOOR OPENERS	20	1					0.1	0.2	1	20	REC – LAB #131	30		
GFCI		31	REC – VENDING #102	20	1	0.2	0.2					1	20	REC – LAB #131	32		
GFCI		33	REC – VENDING #102	20	1			0.2	0.2			1	20	REC – CLASS RM #103	34		
		35	REC – SEATING #101A	20	1					0.6	0.2	1	20	REC – CLASS RM #103	36		
		37	REC – SEATING #101A	20	1	0.6	0.2					1	20	REC – CLASS RM #103	38		
		39	REC – SEATING #101A	20	1			0.6	0.2			1	20	REC – CLASS RM #103	40		
		41	REC – IT STORAGE #136	20	1					0.4	0.2	1	20	REC – CLASS RM #103	42		
GFCI		43	WATER FOUNTAIN	20	1	0.2	0.4					1	20	REC – IT STORAGE #136	44		
		45	REC – CUST #107	20	1			1.0	0.4			1	20	REC – IT STORAGE #136	46		
		47	MENS HAND DRYER	20	1					1.0	0.4	1	20	REC – BIBLIO #132	48		
		49	WOMANS HAND DRYER	20	1	1.0	0.2					1	20	REC – STAFF #129 SCANNER	50		
		51	REC – OFFICE AREA	20	1			1.2	1.0			1	20	REC – CIRC DESK #126A	52		
		53	REC – RM #124A COPIER	20	1					1.0	0.6	1	20	REC – CLASS RM #103	54		
		55	REC – SYSTEM LIBRARIAN	20	1	1.2	0.1					1	20	VENT FAN – ELEC ROOM	56		
		57	REC – COPY/PRINT #137 COPIER	20	1			1.4	1.3			1	20	MOTORIZED SHADES	58		
		59	REC – READING RM #126B	20	1					0.5	0.4	1	20	REC – STORAGE #128	60		
		61	REC – READING RM #126B	20	1	0.6	1.2					1	20	REC – GROUP #106–127	62		
		63	REC – READING RM #126B	20	1			0.4	0.1			1	20	SOUND MASKING SYSTEM	64		
		65	REC – READING RM #126	20	1					0.2	0.2	1	20	REC – VENDING #102	66		GFCI
		67	REC – READING RM #126	20	1	0.2	0.2					1	20	AUTO DOOR OPENERS	68		
		69	REC – READING RM #126	20	1			0.4	0.6			1	20	REC – SEATING #101A	70		
		71	REC – READING RM #125	20	1					0.2	0.6	1	20	REC – SEATING #101A	72		
		73	REC – READING RM #125	20	1	0.8	1.2					1	20	SECURITY PEDESTALS	74		
		75	REC – READING RM #126	20	1			0.2	0.2			1	20	WATER FOUNTAIN	76		
		77	REC – READING RM #126	20	1					0.2	0.4	1	20	REC – MENS RM GFI	78		
		79	REC – READING RM #126	20	1	0.2	0.4					1	20	REC – WOMANS GFI	80		
		81	REC – READING RM #126	20	1			0.2	0.8			1	20	REC – OFFICE AREA	82		
		83	REC – STUDY RM #133	20	1					1.0	1.2	1	20	REC – OFFICE AREA	84		
		85	REC – STUDY RM #133	20	1	0.2	1.4					1	20	REC – OFFICE AREA	86		
		87	VAVs 2–11 – 2–16	20	1			0.3	2.1			1	20	REC – COPY/PRINT #137	88		
		89	REC – ELEC #114	20	1					0.2	1.4	1	20	REC – COPY/PRINT #137 COPIER	90		
		91	REC – IT STORAGE #136	20	1	0.4	0.6					1	20	REC – READING RM #126B	92		
		93	REC – IT STORAGE #136	20	1			0.4	0.4			1	20	REC – READING RM #126B	94		
		95	FIRE ALARM BELL	20	1					0.1	0.4	1	20	REC – REFERENCE DESK	96		
		97	REC – CLASS RM #103	20	1	0.2	0.2					1	20	REC – READING RM #126	98		
1–#12, 1–#12, 1–#12	1	99	**FRIDGE – BRK ROOM 116**	20	1			1.0	0.2			1	20	REC – READING RM #126	100		
		101	RECP. – COPIER 137	20	1					1.2	0.2	1	20	REC – READING RM #126	102		
		103	MOTORIZED SHADES	20	1	0.7	0.8					1	20	REC – READING RM #126	104		
--		105	EXISTING	20	1			0.0	0.2			1	20	REC – READING RM #126	106		
--		107	EXISTING	20	1					0.0	0.2	1	20	REC – READING RM #126	108		
--		109	EXISTING	20	1	0.0	0.2					1	20	REC – READING RM #126	110		
--		111	EXISTING	20	1			0.0	0.2			1	20	REC – READING RM #126	112		
--		113	EXISTING	20	1					0.0	1.0	1	20	REC – READING RM #126	114		
1–#12, 1–#12, 1–#12	1	115	**COFFEE MAKER–BRK ROOM 116**	20	1	1.2	0.2					1	20	REC – STUDY RM #133	116		
1–#12, 1–#12, 1–#12	1	117	**PRINTER – BRK ROOM 116**	20	1			1.2	0.6			1	20	VAVs 2–1 – 2–10	118		
1–#12, 1–#12, 1–#12	1	119	**MICROWAVE – BRK ROOM 116**	20	1					1.4	1.0	1	20	REC – STAFF #129 COPIER	120		
--		121	EXISTING	20	1	0.0	0.2					1	20	REC – RM #124 PRINTER	122		
--		123	EXISTING	20	1			0.0	2.3			2	30	WH–2	124		
--		125	EXISTING	20	1					0.0	2.3				126		
			TOTAL PER PHASE KVA:			18.5		23.0		21.5				ADD. CONNECTED KVA:	63.1		
			TOTAL PER PHASE AMPACITY:			154		196		183				ADD. CONNECTED AMPS:	175		

NOTES (NTS COLUMN):
1) USE EXISTING SPARE BREAKER FOR NEW LOAD SHOWN. NEW LOADS SHOWN IN BOLD.
2) REMOVE EXISTING BREAKER(S) AND PROVIDE BREAKER IN SPACE AS SHOWN

CIRCUIT NUMBERS ARE DIAGRAMMATIC. CONTRACTOR TO FIELD VERIFY EXISTING LOADS AND USE CIRCUITS WHERE AVAILABLE.

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SOUTH CAROLINA
BELKA ENGINEERING ASSOC. INC. No. C00953
CERTIFICATE OF AUTHORIZATION

CORPORATE SEAL
SOUTH CAROLINA
LICENSED PROFESSIONAL ENGINEER
No. 26181
08-26-22
JASON L. AREHEART

PROJECT TITLE
MTC- SUITE RENOVATIONS IN LRC AT BELTLINE CAMPUS
MIDLANDS TECHNICAL COLLEGE
316 BELTLINE BOULEVARD
COLUMBIA, SC

PHASE
CONSTRUCTION DOCUMENTS

ISSUE DATE	8.26.22
PROJECT NO.	22.301.00
STATE PROJECT NO.	H59-N187-CL

REVISION DATE

TITLE
PANELBOARD SCHEDULES

SHEET NO
E-201

QU22206
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GENERAL "ELECTRICAL" NOTES

1 BRANCH CIRCUIT WIRING SHALL BE NO. 12 AWG UNLESS NOTED OTHERWISE. WHERE CONDUCTOR AND RACEWAY SIZE ARE SHOWN AT HOMERUN, SUCH SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT. EXCEPTION: FINAL CONNECTION TO DEVICES, IN OUTLET BOXES, IS NOT REQUIRED TO BE LARGER THAN NO. 12 AWG.
2 20A/120V BRANCH CIRCUITS EXCEEDING 100' IN LENGTH FROM PANEL TO FARTHEST DEVICE OR FIXTURE SHALL USE NO. 10 CONDUCTORS AND 3/4"C.
3 PRIOR TO ROUGH–IN, COORDINATE THE LOCATION AND MOUNTING HEIGHT OF ALL WALL AND CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL ELEVATIONS, MILLWORK SHOP DRAWINGS, AND EXISTING CONDITIONS. IN THE EVENT OF A CONFLICT, NOTIFY THE ARCHITECT. MINOR ADJUSTMENTS IN DEVICE LOCATION, I.E. 5'–0" IN ANY DIRECTION SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
4 COORDINATE THE LOCATION OF ALL FLOOR–MOUNTED OUTLETS WITH THE ARCHITECT PRIOR TO ROUGH–IN.
5 OUTLET BOXES FOR SWITCHES, RECEPTACLES, ETC MOUNTED ON OPPOSITE SIDES OF FIRE RATED PARTITIONS SHALL NOT BE MOUNTED IN THE SAME WALL CAVITY. SEPARATE WALL PENETRATIONS BY MOUNTING ON OPPOSITE SIDES OF WALL STUDS OR OTHER VERTICAL STRUCTURAL MEMBER IN THE WALL.
6 ALL FLOOR BOXES SHALL BE INSTALLED TO MAINTAIN THE FIRE RATING OF THE FLOOR. COORDINATE CORE DRILLING HOLES IN FLOOR WITH STRUCTURAL ENGINEER.
7 RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION ABOVE CEILINGS, BELOW FLOOR, AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE. WHERE EXPOSED RACEWAYS MUST BE USED, LAYOUT RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.
8 FEEDER CONDUITS, BRANCH CIRCUITS AND CABLE TRAY ROUTING SHALL COMPLY WITH DETAILS ON DRAWINGS AND SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES BEFORE AND DURING CONSTRUCTION.
9 THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING:
9.1 A COMMON NEUTRAL SHALL NOT BE INSTALLED IN A HOMERUN FOR 2 OR 3 BRANCH CIRCUITS UNLESS DIRECTION IS PROVIDED BY THE ENGINEER IN WRITTING FOR A SPECIFIC APPLICATION.
9.2 MULTIPLE SINGLE–POLE BRANCH CIRCUITS (UP TO 3 HOTS, 3 NEUTRALS, 1 GROUND) RATED FOR 30–AMPS OR LESS MAY BE PULLED INTO A SINGLE RACEWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE RACEWAYS AND DERATING CONDUCTORS PER NEC ARTICLE 310.15.
9.3 BRANCH CIRCUIT, FEEDER & COMMUNICATION CIRCUITS SHALL BE ROUTED OVERHEAD UNLESS PRIOR APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND ENGINEER.
9.4 A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.
10 PROVIDE EXPANSION JOINT COUPLINGS ANYWHERE A CONDUIT PASSES THROUGH A BUILDING EXPANSION JOINT.
11 WHERE FLOOR MOUNTED RECEPTACLES/DEVICES ARE GROUPED, PROVIDE DEVICES GROUPED IN ONE FLOOR BOX.
12 COORDINATE THE ROUTING OF UNDERGROUND CONDUCTORS/CONDUIT WITH STRUCTURAL FOOTINGS AND UNDERGROUND UTILITIES.
13 THE USE OF MC CABLE IS NOT ALLOWED.
14 SEAL ALL EXISTING AND NEW FIRE RATED WALL AND FLOOR PENETRATIONS IN THE CONSTRUCTION AREA
15 SEE THE ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS OF FIRE RATED WALLS.
16 WHEREVER ON THE ELECTRICAL DRAWINGS THE WORD "PROVIDE" IS USED, IT SHALL BE INFERRED TO MEAN "FURNISH AND INSTALL".

GENERAL EXISTING CONDITION NOTES

1 AREAS OF WORK EXIST FOR THIS PROJECT WHICH ARE NOT ACCESSIBLE OR HAVE LIMITED ACCESS DURING DESIGN. AS SUCH CONTRACTOR SHALL VERIFY ALL UTILITIES IN AREA OF WORK BEFORE DEMOLITION OF ANY SERVICE. ANY ELECTRICAL COMPONENTS NOT SHOWN SHALL BE IDENTIFIED AND THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED AS SOON AS POSSIBLE. NO ELECTRICAL REWORK SHALL BE COMMENCED WITHOUT COORDINATION OF BOTH ARCHITECT AND ENGINEER.
2 IN AREAS WHERE THE EXISTING CEILINGS ARE NOT SLATED TO BE REMOVED, THE CONTRACTOR SHALL WORK THRU THE EXISTING CEILINGS (SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR AREA OF WORK). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY DAMAGED TILE OR GRID THAT IS A RESULT OF THEIR WORK.
3 THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A FIRESTOP SYSTEM IN ALL PENETRATIONS OF FIRE–RATED WALLS CREATED BY THE REMOVAL OF EXISTING ELECTRICAL CONDUIT OR CABLES, AS WELL AS THOSE CREATED BY NEWLY INSTALLED CONDUITS AND SLEEVES.
4 WHERE INSTALLATION REQUIRES CUTTING OR DRILLING OF THE EXISTING FLOOR SLAB, THE CONTRACTOR SHALL X–RAY THE EXISTING SLAB PRIOR TO WORK TO ENSURE THAT NO EXISTING UTILITIES OR STRUCTURAL ELEMENTS IN THE SLAB WILL BE COMPROMISED BY THE WORK. NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS THAT WILL REQUIRE RELOCATING THE PROPOSED SLAB WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED UTILITIES OR STRUCTURAL ELEMENTS CAUSED BY THE SLAB DEMOLITION.
5 SUPPORT ALL EXISTING CONDUITS AND JUNCTION BOXES ABOVE THE CEILING PER NEC IN THE CONSTRUCTION AREA.
6 REMOVE ALL ABANDONED CONDUIT, WIRE, AND COMMUNICATION CABLES ABOVE THE CEILING IN THE CONSTRUCTION AREA.
7 PROVIDE JUNCTION BOX COVER PLATES ON ALL EXISTING JUNCTION BOXES ABOVE THE CEILING IN THE CONSTRUCTION AREA.
8 SUPPORT ALL EXISTING COMMUNICATION CABLES ABOVE THE CEILING IN THE CONSTRUCTION AREA
9 WHERE INFORMATION SHOWN ON THESE DRAWINGS CONFLICTS WITH VERIFIED FIELD CONDITIONS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER

GENERAL "DEMOLITION" NOTES

1 ALL ELECTRICAL EQUIPMENT TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIALS UNTIL RELEASED BY OWNER'S PROJECT MANAGER. MATERIALS THAT OWNER'S PROJECT MANAGER CHOOSES TO RETAIN SHALL BE DELIVERED BY THE CONTRACTOR TO A LOCATION DESIGNATED BY THE PROJECT MANAGER. ALL OTHER MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
2 REMOVE ALL EXPOSED ABANDONED COMMUNICATION CABLE FOUND DURING THE CONSTRUCTION PROCESS. SUPPORT ALL EXISTING REMAINING CABLE PER THE NEC.
3 ELECTRICAL DEVICES NOT SHOWN ON WALLS TO BE DEMOLISHED SHALL BE DEMOLISHED AT NO ADDITIONAL COST TO OWNER.
4 ELECTRICAL DEVICES NOT SHOWN ON CEILINGS OR WALLS TO REMAIN SHALL REMAIN IN PLACE. PROTECT FROM DAMAGE DURING CONSTRUCTION
5 ELECTRICAL DEVICES NOT SHOWN ON CEILINGS TO BE REMOVED SHALL BE TEMPORARILY DISCONNECTED AND REMOVED DURING DEMOLITION AND RE–INSTALLED ON NEW CEILING IN SAME LOCATION.

GENERAL "POWER" NOTES

1 ALL BRANCH CIRCUITS INDICATED ON THESE PLANS TO BE LARGER THAN NO. 12 AWG SHALL BE SIZED AS INDICATED FOR THE ENTIRE LENGTH OF THE CIRCUIT.
2 WHEN A RECEPTACLE IS INDICATED TO BE MOUNTED ADJACENT TO A COMPUTER/TELEPHONE/ TELEVISION OUTLET, THE DEVICE(S) SHALL BE MOUNTED WITHIN 6" CENTER–TO–CENTER.
3 PROVIDE NEMA CONFIGURATION RECEPTACLES TO MATCH PLUGS ON EQUIPMENT FURNISHED.
4 WHERE SPEED CONTROLLER IS INDICATED TO BE PROVIDED WITH FANS, IT SHALL BE PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
5 PROVIDE LABEL ON INSIDE FACE OF COVER PLATE OF ALL RECEPTACLES, SWITCHES & WALL MOUNTED DEVICES INDICATING PANEL AND BRANCH CIRCUIT TO WHICH EACH DEVICE IS CONNECTED.

GENERAL "LIGHTING" NOTES

1 SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES.
2 EXACT LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL SPACES SHALL BE DETERMINED IN THE FIELD. DO NOT SUPPORT FIXTURES FROM DUCT OR PIPING. PROVIDE CHAIN OR TRAPEZE–TYPE HANGERS WHERE FIXTURES CAN NOT BE MOUNTED DIRECTLY TO CEILING.
3 LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL PROVIDE FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION.
4 DOUBLE–FACED EXIT FIXTURES SHALL BE OF THE SAME MANUFACTURER & SERIES AS THE SINGLE TYPE SPECIFIED.
5 REGARDLESS OF CATALOG NUMBER INDICATED IN SCHEDULE, PROVIDE BATTERY PACKS FOR ALL FIXTURES INDICATED ON THE DRAWINGS TO BE EMERGENCY TYPE.
6 REGARDLESS OF CATALOG NUMBER INDICATED IN SCHEDULE, ALL EXIT SIGNS SHALL BE PROVIDED WITH A BATTERY PACK, SHALL BE WIRED AHEAD OF LOCAL SWITCH AND SHALL NOT BE SWITCHED.

ABBREVIATIONS

ABR	DESCRIPTION
(E)	EXISTING
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BAS	BUILDING AUTOMATION SYSTEM
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BOD	BOTTOM OF DEVICE
CBB	COMMUNICATIONS BACK BOARD
cd	CANDELA
CLG	CEILING
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FDS	FUSED DISCONNECT SWITCH
FSD	FIRE/SMOKE DAMPER
GBB	GROUND BUSS BAR
GFCI	GROUND–FAULT CIRCUIT–INTERRUPTING
GFI	GROUND–FAULT INTERRUPTING
GP	GENERAL PURPOSE
HP	HEAT PUMP
ICP	IRRIGATION CONTROL PANEL
IG	ISOLATED GROUND
J–BOX	JUNCTION BOX
LCS	LIGHTING CONTROL SYSTEM
NEC	NATIONAL ELECTRIC CODE
NFDS	NON–FUSED DISCONNECT SWITCH
OC	ON CENTER
RFAP	REMOTE FIRE ALARM ANNUNCIATOR PANEL
RTU	ROOF TOP UNIT
SD	SMOKE DETECTOR
SPD	SURGE PROTECTION DEVICE
TGB	TELEPHONE GROUNDING BUSS BAR
UNO	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER

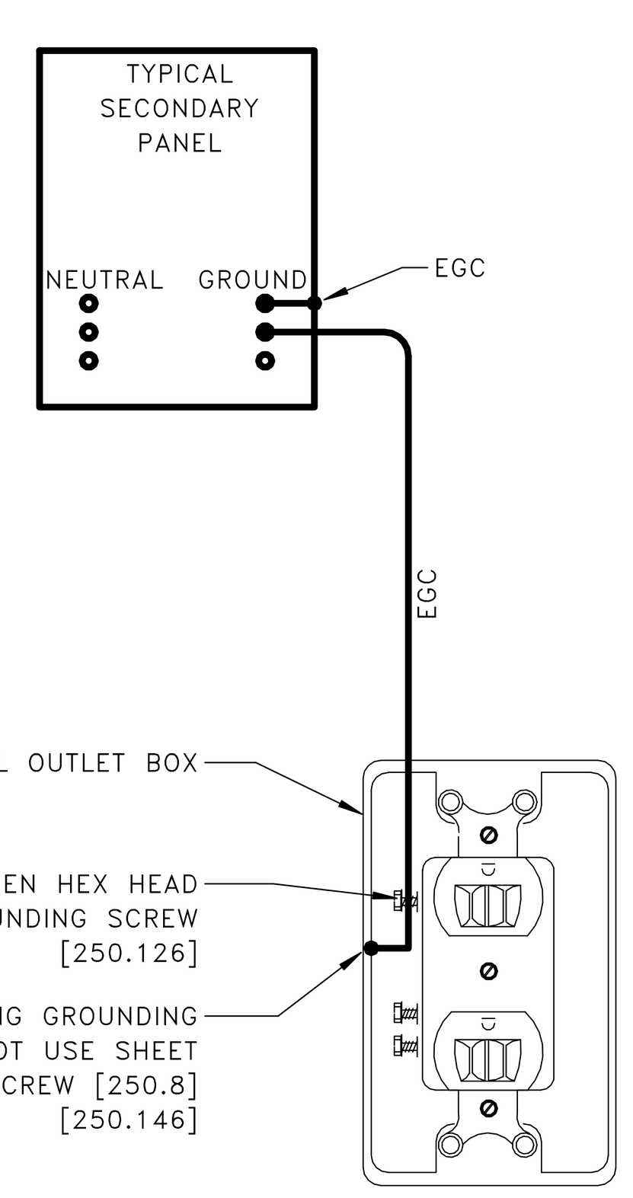
ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⏀	SINGLE RECEPTACLE (WALL MOUNTED @ 18"AFF)	F	FIRE ALARM PULL STATION (WALL MOUNTED @ 48" AFF TOP OF BOX)
⏀	DUPLEX RECEPTACLE (WALL MOUNTED @ 18"AFF)	A	FIRE ALARM AUDIBLE DEVICE (WALL MOUNTED @ 7'–6" AFF)
⏀	DUPLEX RECEPTACLE (GFI TYPE @ 18"AFF)	V	FIRE ALARM VISUAL DEVICE (WALL MOUNTED @ 7'–6" AFF)
⏀	DUPLEX RECEPTACLE (USB TYPE @ 18"AFF)	A/V	FIRE ALARM AUDIBLE/VISUAL DEVICE (WALL MOUNTED @ 7'–6" AFF)
⏀	DUPLEX RECEPTACLE (@ 6" ABOVE COUNTER)	A	FIRE ALARM AUDIBLE DEVICE (CEILING MOUNTED)
⏀	DUPLEX RECEPTACLE (GFI TYPE @ 6" ABOVE COUNTER)	V	FIRE ALARM VISUAL DEVICE (CEILING MOUNTED)
⏀	DUPLEX RECEPTACLE (USB TYPE @ 6" ABOVE COUNTER)	A/V	FIRE ALARM AUDIBLE/VISUAL DEVICE (CEILING MOUNTED)
⏀	QUAD RECEPTACLE (WALL MOUNTED @ 18"AFF)	S	SMOKE DETECTOR (WALL MOUNTED)
⏀	QUAD RECEPTACLE (GFI TYPE @ 18"AFF)	S	SMOKE DETECTOR (CEILING MOUNTED)
⏀	QUAD RECEPTACLE (@ 6" ABOVE COUNTER)	D	SMOKE DETECTOR (DUCT MOUNTED)
⏀	QUAD RECEPTACLE (GFI TYPE @ 6" ABOVE COUNTER)	H	HEAT DETECTOR (WALL MOUNTED)
⏀	DUPLEX RECEPTACLE (CEILING MOUNTED)	H	HEAT DETECTOR (CEILING MOUNTED)
⏀	DUPLEX RECEPTACLE (FLOOR MOUNTED)	T	REMOTE TEST STATION FOR DUCT MOUNTED DETECTORS (WALL MOUNTED)
⊕	QUADPLEX RECEPTACLE (CEILING MOUNTED)	T	REMOTE TEST STATION FOR DUCT MOUNTED DETECTORS (CEILING MOUNTED)
⊞	QUADPLEX RECEPTACLE (FLOOR MOUNTED)	T	FIRE ALARM TAMPER SWITCH
⏀▽	DUPLEX REC/DATA COMBINATION (FLOOR MOUNTED)	P	FIRE ALARM PRESSURE SWITCH
⊕▽	QUADPLEX REC/DATA COMBINATION (FLOOR MOUNTED)	F	FIRE ALARM FLOW SWITCH
⏀	MULTI–PHASE RECEPTACLE (AS NOTED ON PLAN)	FSD	FIRE / SMOKE DAMPER
J	JUNCTION BOX (WALL MTD)	PIV	PRESSURE INDICATING VALVE
J	JUNCTION BOX (CEILING)	R	SECURITY CARD READER J–BOX SEE ACCESS CONTROL DETAILS FOR ADDITIONAL INFO
J	JUNCTION BOX (FLOOR MOUNTED)	K	SECURITY KEY PAD J–BOX SEE PLANS FOR ADDITIONAL INFO
▽	PHONE OR DATA J–BOX (WALL MOUNTED @ 18"AFF) SEE COMMUNICATIONS RISER FOR ADDITIONAL INFO	AIU	ADDRESSABLE INTERFACE UNIT (MONITOR OR CONTROL TYPE)
▽	PHONE OR DATA J–BOX (MTD ABOVE COUNTER) SEE COMMUNICATIONS RISER FOR ADDITIONAL INFO	SPD	SURGE PROTECTION DEVICE
▽	PHONE OR DATA J–BOX (FLOOR MOUNTED) SEE COMMUNICATIONS RISER FOR ADDITIONAL INFO	M	ELECTRICAL METERING DEVICE
TV	CATV J–BOX (WALL MOUNTED @ 18" AFF) SEE COMMUNICATIONS RISER FOR ADDITIONAL INFO	M	ELECTRICAL UTILITY METER & C/T CABINET
TV	TELEVISION / CATV J–BOX (CEILING MOUNTED) SEE COMMUNICATIONS RISER FOR ADDITIONAL INFO	▬	PANELBOARD (SURFACE MOUNTED)
S	LIGHT SWITCH, SINGLE POLE	▬	PANELBOARD (RECESS MOUNTED)
S^3	LIGHT SWITCH, 3 WAY TYPE	▭	CONTROL PANEL (SURFACE MOUNTED)
S^4	LIGHT SWITCH, 4 WAY TYPE	▭	CONTROL PANEL (RECESS MOUNTED)
S^D	LIGHT SWITCH, DIMMER TYPE	#	DISCONNECT SWITCH, (REFER TO EQUIPMENT CONNECTION SCHEDULE)
S^M	MOTOR RATED SNAP SWITCH IN NEMA 1 ENCLOSURE	☐	DISCONNECT SWITCH, (NON PROTECTED)
S^a	LOWER CASE SUBSCRIPT INDICATES SWITCH–LEG	⌀	MOTOR CONNECTION (AS NOTED)
SS	MULTI–LEVEL SWITCHING CONFIGURATION	G	REMOTE GFCI TEST SWITCH WITH INDICATOR LIGHT & DEAD FRONT PANEL. (NO RECEPTACLE)
OS	OCCUPANCY SENSOR (CEILING MOUNTED)	OS	OCCUPANCY SENSOR (WALL MOUNTED)
#	LIGHTING CONTROL CALLOUT (REFER TO SCHEDULE)	#	KEY NOTE CALLOUT (REFER TO KEY NOTES ON SHEET)

LIGHT FIXTURE SCHEDULE

	FIXTURE SPECIFICATIONS				LAMPING	ELECTRICAL		
SYMBOL	TYPE	FIXTURE DESCRIPTION	MANUFACTURER	CAT. #	COLOR TEMP	FIXT. LOAD	VOLTS	MOUNTING REMARKS
⊗	X1	SINGLE FACE LED EXIT SIGN	EVENLITE	TEX–EM–R–1C	LED	5 VA	277 V	CEILING & OR WALL MOUNTED

DIAGRAM PROVIDES OVERALL VIEW OF BUILDING GROUNDING SYSTEM. EQUIPMENT SHALL BE GROUNDED BASED ON ITS PORTION OF THIS DIAGRAM.



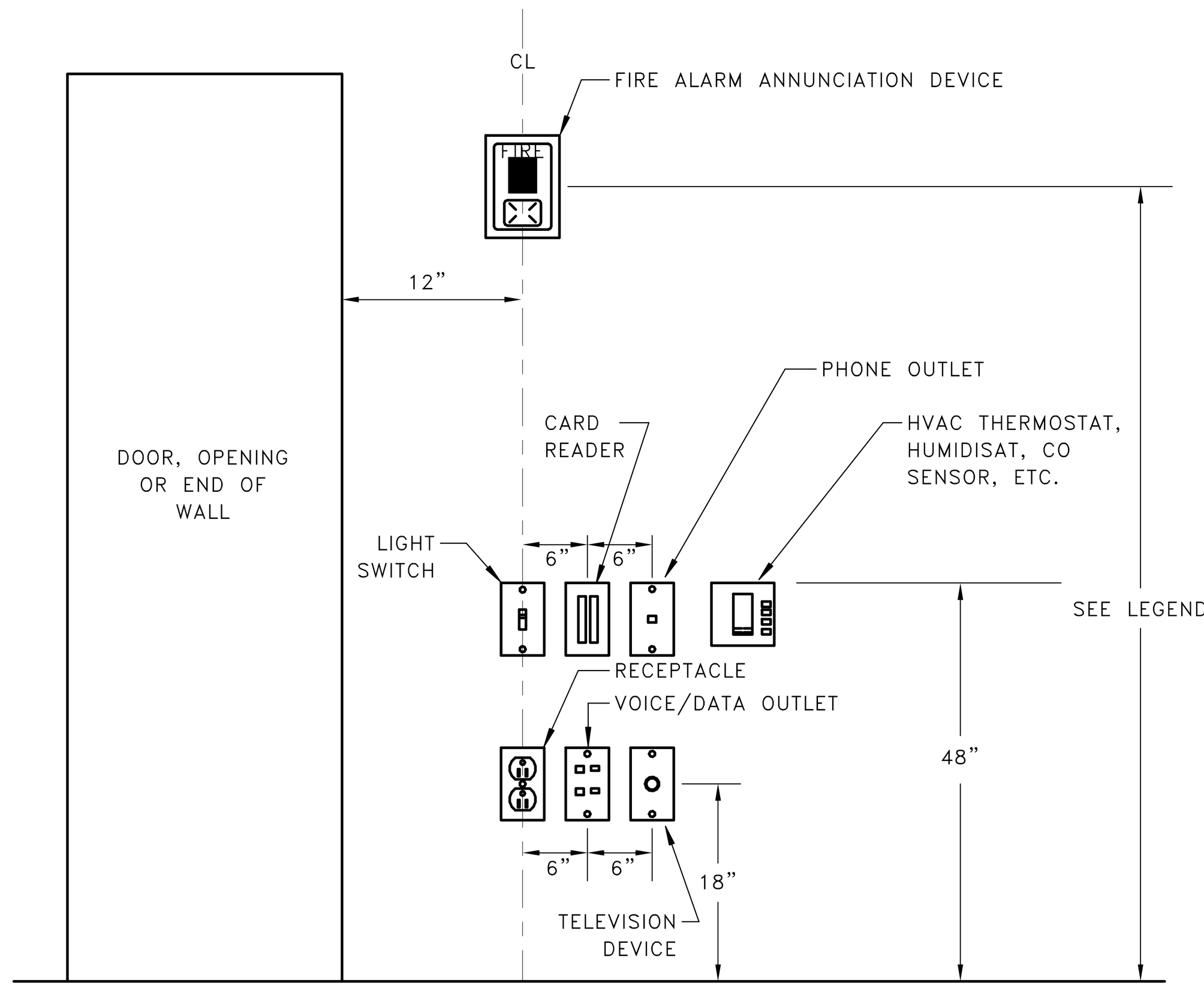
GROUNDING LEGEND		
ABBR.	DESCRIPTION	SIZE
MBJ	MAIN BONDING JUMPER	EXISTING
SBJ	SYSTEM BONDING JUMPER	*
SSBJ	SUPPLY SIDE BONDING JUMPER	EXISTING
GEC	GROUNDING ELECTRODE CONDUCTOR	EXISTING
EGC	EQUIPMENT GROUNDING CONDUCTOR	**

* SEE TRANSFORMER SCHEDULE OR SIZE PER TABLE 250.102(C)(1) OF THE NEC OR 12.5% OF CONDUCTOR SIZE [250.28].
** SIZE PER TABLE 250.122.

GROUNDING NOTES:

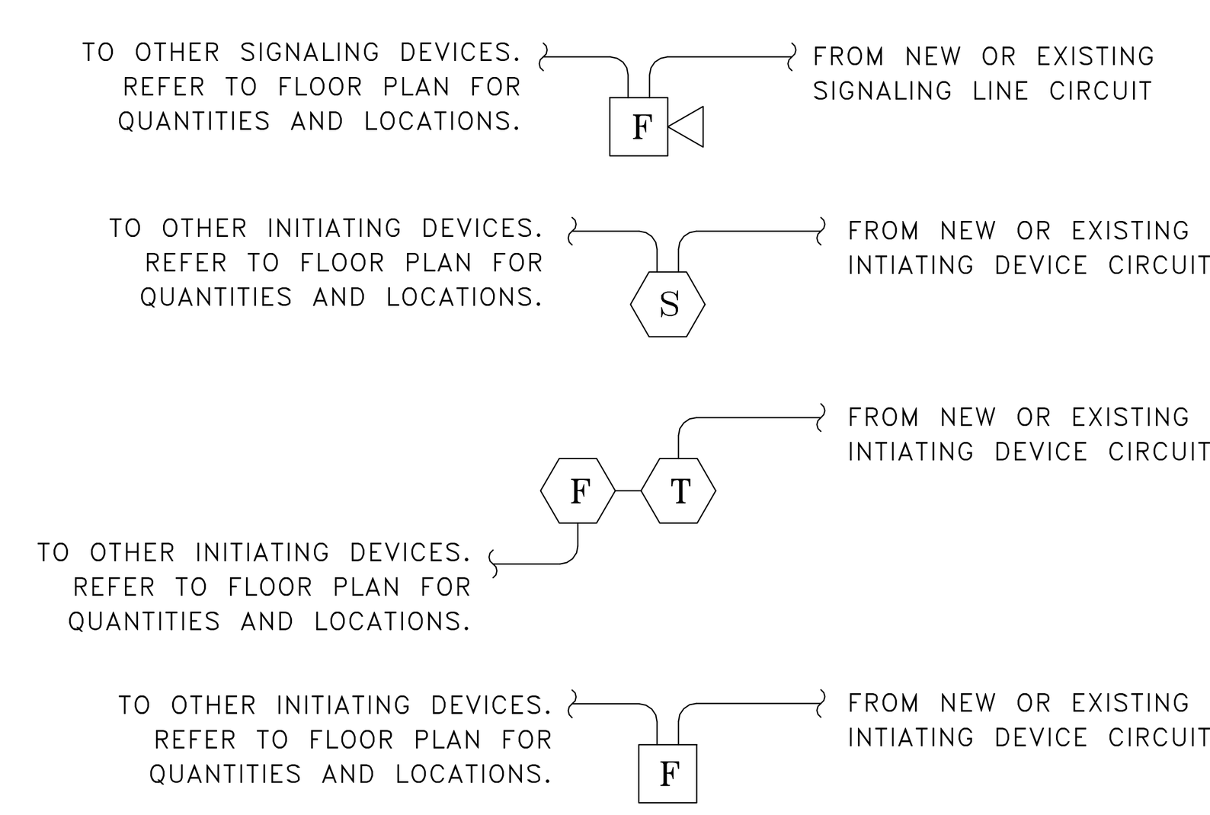
1. NUMBERS IN BRACKETS REFER TO SPECIFIC SECTIONS OF THE NATIONAL ELECTRICAL CODE.
2. ALL UNDERGROUND OR OTHERWISE INACCESSIBLE GROUND CONNECTIONS AND SPLICES SHALL BE EXOTHERMICALLY WELDED [250.68].
3. PROVIDE A GROUND WIRE IN ALL CONDUITS.
4. NO ALUMINUM SHALL BE USED FOR GROUNDING WORK WITHOUT THE SPECIFIC WRITTEN PERMISSION OF THE ENGINEER. EXCEPTION: ALUMINUM BUILDING STRUCTURAL MATERIALS SHALL BE BONDED WITH LISTED ALUMINUM EQUIPMENT WITH ALUMINUM TO COPPER CONNECTORS FOR ROUTING COPPER EGC'S.
5. ALL METAL ENCLOSURES AND RACEWAYS SHALL BE BONDED TO GROUND [250.86]. FOR CIRCUITS OVER 250V PROVIDE BOND PER [250.97], STANDARD LOCKNUTS ARE NOT ACCEPTABLE.
6. PROVIDE EGC CONNECTED TO ANY JUNCTION BOX WHERE SPLICE IS MADE [250.148] OR WHERE A DEVICE IS INSTALLED.
7. PROVIDE BOND TO EXPOSED METAL ON ALL MOTORS, PUMPS, AND LIGHTING FIXTURES PER [250.112].

4 E–001 GROUNDING DETAIL
NOT TO SCALE



NOTE:
1. DEVICES SHOWN WITHIN 48" OF EACH OTHER ON ALL ELECTRICAL PLANS SHALL BE ALIGNED PER THIS DETAIL. IF DEVICES ARE SHOWN IN MIDDLE OF WALL, THEN CENTER DEVICES ON WALL.
2. DEVICES ABOVE COUNTER SHALL BE MAXIMUM OF 44" TO TOP OF DEVICE. SEE ELEVATIONS FOR ADDITIONAL INFORMATION.

1 E–001 DEVICE ALIGNMENT DETAIL
NOT TO SCALE



FLOOR

EXISTING FIRE ALARM SYSTEM NOTES

1. SEE FLOOR PLANS FOR INTENDED COVERAGE OF FIRE ALARM SYSTEM.
2. EXISTING BUILDING FIRE ALARM SYSTEM IS BASED ON #SIMPLEX/4100ES#. PROVIDE ADDITIONAL POWER SUPPLIES AND OTHER SYSTEM ACCESSORIES REQUIRED TO SUPPORT ADDITIONAL DEVICES.
3. INITIATING DEVICES SHALL BE SMOKE DETECTORS, DUCT–MOUNTED SMOKE DETECTORS, HEAT DETECTORS, MANUAL PULL STATIONS / ABORT STATIONS, AND WATER FLOW SWITCHES.

   SYSTEM TROUBLE (OPEN WIRING, SHORTED WIRING, OR GROUND FAULTS) SHALL BE ANNUNCIATED BOTH AUDIBLY AND VISUALLY AT THE FACP AND AT ALL ANNUNCIATORS.
4. NOTIFICATION APPLIANCE CIRCUITS THAT PASS THROUGH A ZONE OTHER THAN THE ZONE IN WHICH THEY ARE NOTIFYING SHALL BE INSTALLED IN A 2–HOUR RATED CABLE/CONDUIT ASSEMBLY.

3 E–001 EXISTING FIRE ALARM SYSTEM SINGLE–LINE
NOT TO SCALE

ELECTRICAL DRAWING INDEX

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A/E SEAL
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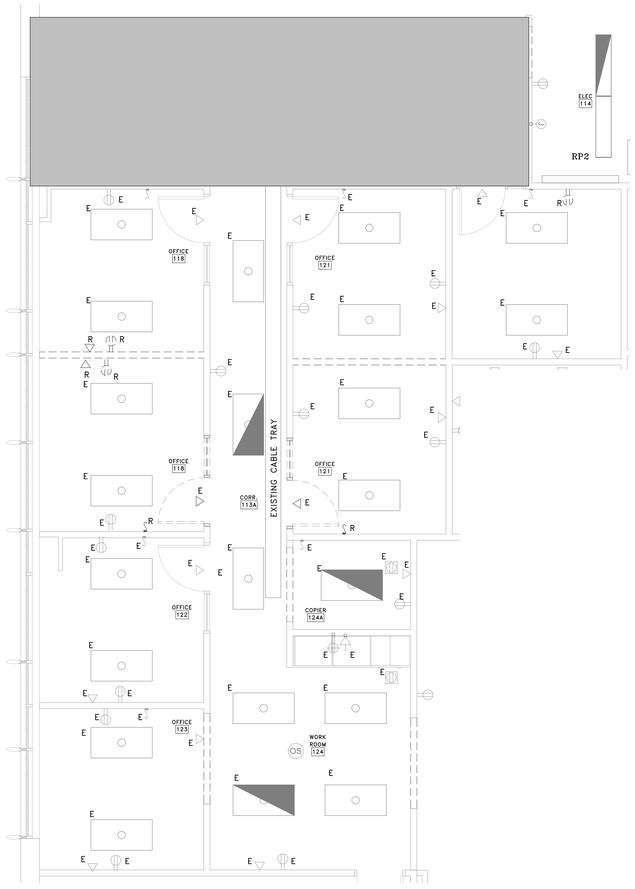
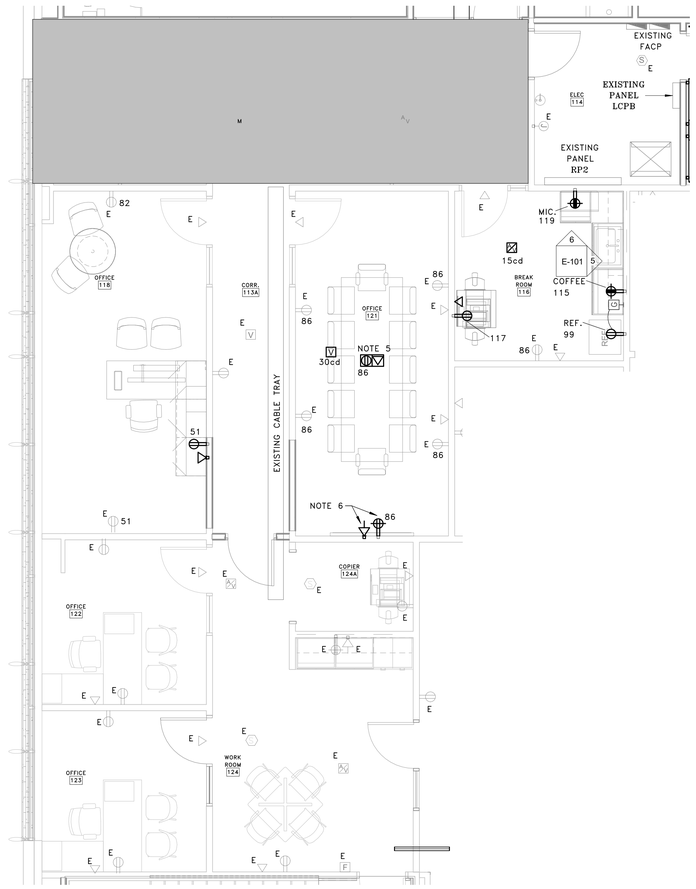
TITLE
ELECTRICAL NOTES & LEGENDS

SHEET NO
E-001



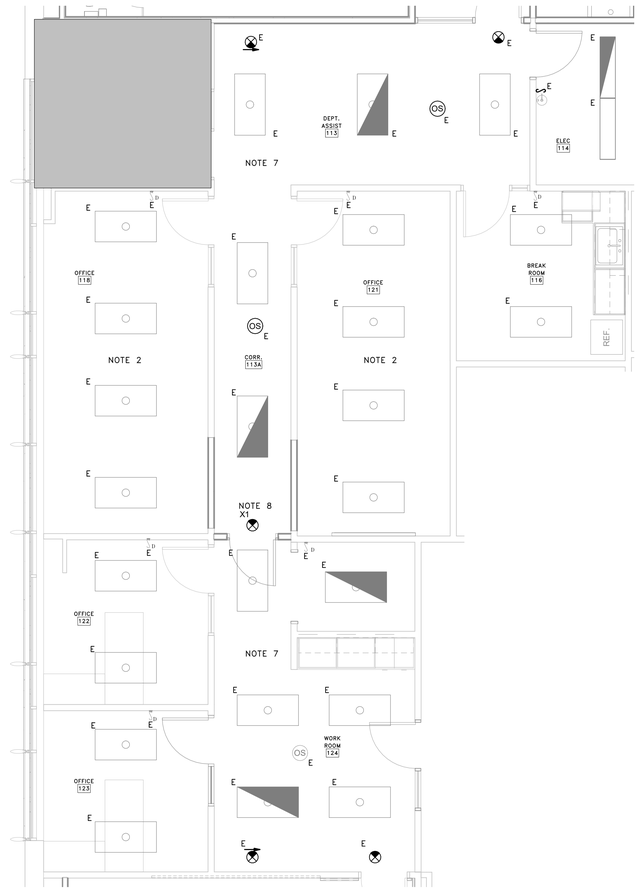
1 SECOND FLOOR ELECTRICAL DEMOLITION PLAN

E-101 SCALE: 1/4" = 1'-0"



2 SECOND FLOOR POWER RENOVATION PLAN

E-101 SCALE: 1/4" = 1'-0"



3 SECOND FLOOR LIGHTING RENOVATION PLAN

E-101 SCALE: 1/4" = 1'-0"

DEMOLITION/RENOVATION NOTATION

* IF NO ANNOTATION IS SHOWN ASSUME EXISTING TO REMAIN IN PLACE FOR SOLID LINES AND DEMOLISH FOR DASHED LINES.

* DEVICES AND EQUIPMENT NOT SHOWN SHALL BE ASSUMED TO BE EXISTING TO REMAIN IN PLACE.

E EXISTING FIXTURE OR DEVICE TO REMAIN IN PLACE.

R EXISTING FIXTURE OR DEVICE TO BE REMOVED BY THE ELECTRICAL CONTRACTOR. MAINTAIN CONTINUITY OF REMAINING PORTIONS OF BRANCH CIRCUIT.

RE EXISTING DEVICE TO BE REMOVED BY THE ELECTRICAL CONTRACTOR. EXISTING CIRCUIT SHALL BE RETAINED. PROVIDE NEW DEVICE AS SHOWN ON RENOVATION PLANS.

RN RELOCATED FIXTURE (NEW LOCATION).

RR EXISTING FIXTURE TO BE RELOCATED BY THE ELECTRICAL CONTRACTOR TO NEW LOCATION SHOWN ON RENOVATION PLAN.

ELECTRICAL NOTES

1 ALL CIRCUITS SHALL BE FED FROM PANEL 'RP2' WITH CIRCUIT NUMBERS SHOWN UNLESS NOTED OTHERWISE

2 CONNECT EXISTING LIGHTS IN RENOVATED ROOMS TO LOCAL LIGHT SWITCH AND OCCUPANCY SENSORS SUCH THAT ALL LIGHTS TURN ON AND OFF BY SINGLE SWITCH AND OCCUPANCY SENSORS.

3 ALL EXISTING FIRE ALARM DEVICES SHALL BE ASSUMED TO REMAIN IN PLACE

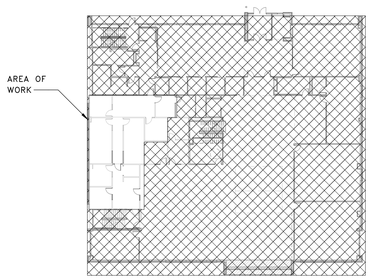
4 PROVIDE NEW FIRE ALARM INDICATING DEVICES AS INDICATED AND CONNECT TO EXISTING FIRE ALARM SYSTEM. RESYNC INDICATING DEVICES.

5 PROVIDE FLOOR POKE-THROUGH IN LOCATION WHERE EXISTING WALL WAS REMOVED, X-RAY AND CORE DRILL SLAB AS REQUIRED. MULTISERVICE FLUSH MOUNTED IN FLOOR. HUBBELL: S1R6PTFIT-S1R6SPE-SIR6SPH OR APPROVED EQUAL, WITH 2-20 AMP DUPLEX RECEPTACLES IN BOX, ONE 3/4"C FOR POWER AND ONE 1"C FOR VOICE/DATA FROM FLOOR BOX TO CABLE TRAY. PROVIDE 1-1/4"C FROM FLOOR BOX TO TV JUNCTION BOX ON WALL. PROVIDE PLATE FOR TERMINATION OF VOICE/DATA OUTLETS.

6 PROVIDE ALL-IN-ONE BACKBOX, LEGRAND CHIEF PAC525 OR EQUAL FOR THE FLAT PANEL TV. PROVIDE DUPLEX RECEPTACLE INTEGRAL TO BOX, PROVIDE A 1" CONDUIT FOR DATA TO ABOVE CEILING AND A 1-1/4" CONDUIT FOR AV TO ABOVE CEILING. COORDINATE EXACT MOUNTING LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

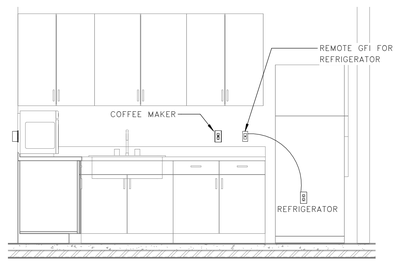
7 REPROGRAM EXISTING LIGHTING CONTROLS FOR A NEW ZONE SO THAT DEPT ASST 113 AND WORKROOM 124 ARE CONTROLLED INDEPENDENTLY OF EACH OTHER. LIGHTING CONTROL PANEL IS WATTSTOPPER LMCP8.

8 PROVIDE CEILING MOUNTED EXIT SIGN ON EXISTING UNSWITCHED EXIT SIGN LIGHTING CICUIT IN THIS ROOM.



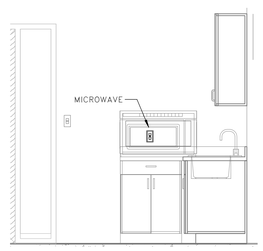
4 KEY PLAN

E-101 SCALE: 1" = 30'-0"



5 WORK ROOM 116 E. ELEVATION

E-101 SCALE: 1/2" = 1'-0"



6 WORK ROOM 116 N. ELEVATION

E-101 SCALE: 1/2" = 1'-0"

0 2'-0" 4'-0" 6'-0" 8'-0"

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

0 4'-0" 8'-0" 12'-0" 16'-0"

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

QUACKENBUSH ARCHITECTS + PLANNERS
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AE SEAL

SOUTH CAROLINA
BELKA ENGINEERING ASSOC. INC. No. C00953
CERTIFICATE OF AUTHORIZATION

CORPORATE SEAL

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
JASON L. AREHEART
No. 26181
08-26-22

PROJECT TITLE

MTC- SUITE RENOVATIONS IN LRC AT BELTLINE CAMPUS

MIDLANDS TECHNICAL COLLEGE COLUMBIA, SC
316 BELTLINE BOULEVARD

PHASE
CONSTRUCTION DOCUMENTS

ISSUE DATE	8.26.22
PROJECT NO.	22.301.00
STATE PROJECT NO.	H59-N187-CL

REVISION	DATE

TITLE
SECOND FLOOR ELECTRICAL DEMOLITION/ RENOVATION PLANS

SHEET NO
E-101

QU22206

BELKA ENGINEERING ASSOCIATES
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