

REECE NICHOLS TENANT IMPROVEMENTS

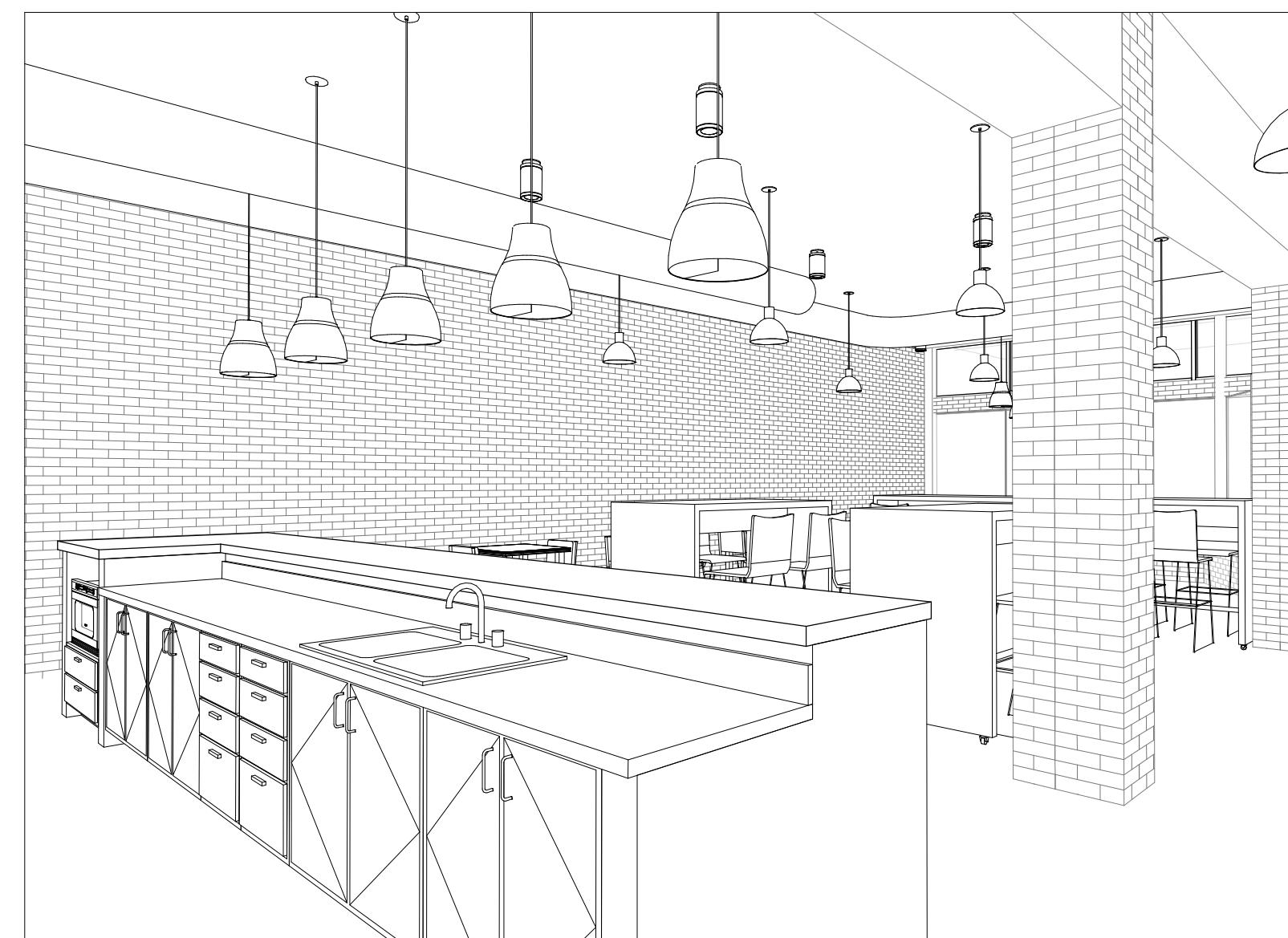
230 SW MAIN ST.
LEE'S SUMMIT, MO 64063

PERMIT DOCUMENTS

1 JUNE, 2022

COLLINS WEBB #: 22046

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OWNER

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222 SW MAIN ST.
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ARCHITECT

COLLINS WEBB ARCHITECTURE
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MEP ENGINEER

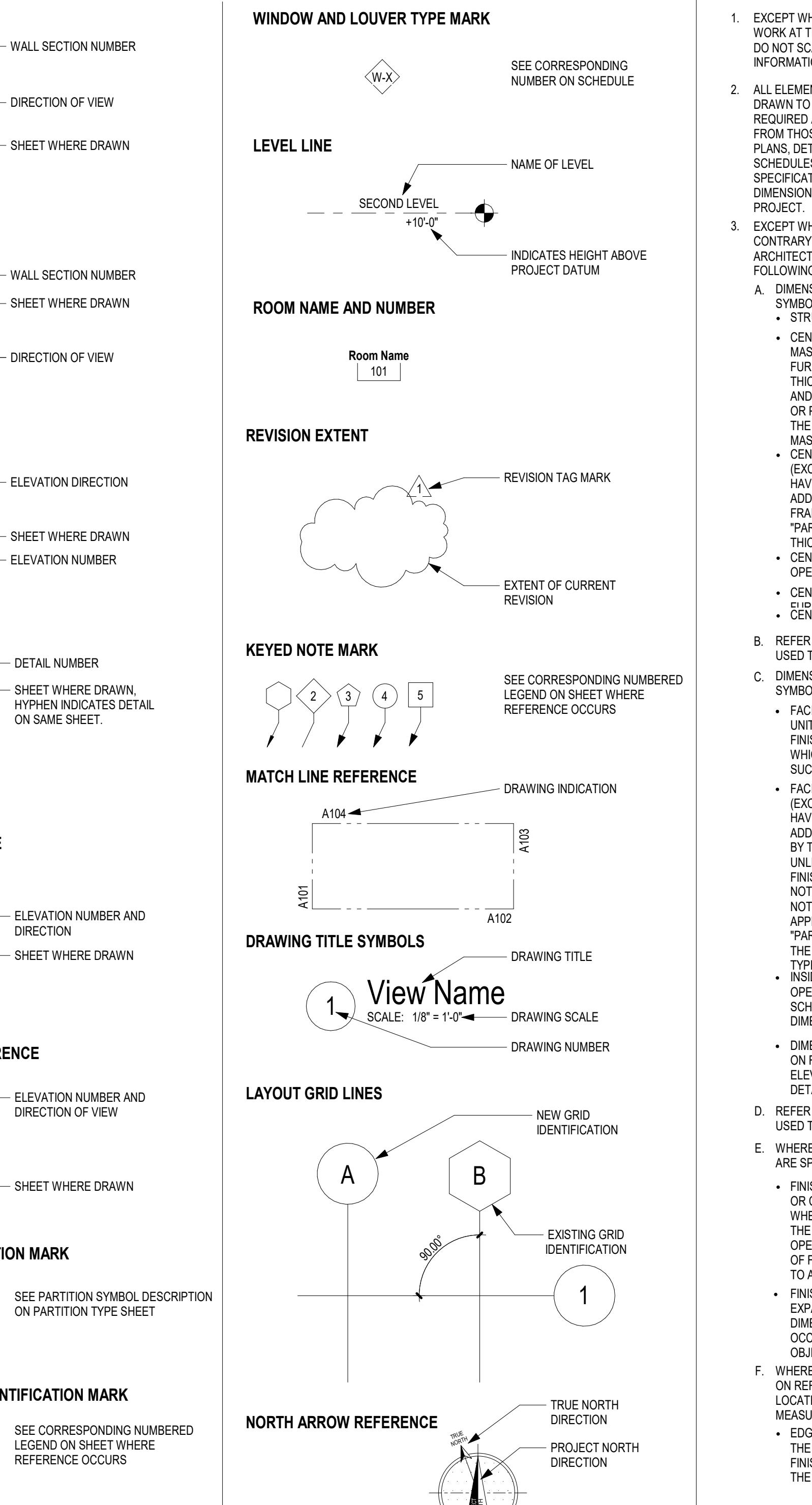
ENGINEERED BUILDING SOLUTIONS
P.O. BOX #1101
OVERLAND PARK, KS 66207
P: 913.735.5654
www.ebsolutionskc.com

ARCHITECTURAL ABBREVIATIONS

A	AND	E	EAST	I	INSIDE DIAMETER	P	PUBLIC ADDRESS	S	SPRINKLER
&	ANGLE	EA	EACH	ID	INCH	PA	PART	SPKR	SPAKER
AB	ANCHOR BOLT	EDR	EDRIMENT DRAWING	INCL	INCLINATE	PBD	PARTITION BOARD	SQ	SQUARE
ACOUSTICS	ACOUSTICAL	EG	EDGE GUARD	INFO	INCLUDING	PEX	PRIVATE TELEPHONE EXCHANGE	SS	STATUTORY SEWER
TCT	ACOUSTICAL CEILING TILE	EFS	EXTERIOR INSULATION FINISH SYSTEM	EJ	EXPANSION JOINT	PCF	POUNDS PER CUBIC FOOT	SSK	SINK
ACP	ACOUSTICAL CEILING PANEL	EL	ELASTOMERIC	INSL	INSULATION	PCI	POUNDS PER CUBIC INCH	SST	STAINLESS STEEL
ACS PN	ACCESS PANEL	ELAST	ELASTOMERIC	INTR	INTERIOR	PERF	PERFORATED	ST	STREET
AD	ADJUSTABLE	ELEC	ELECTRICAL	INV	INVERT	PERM	PERMANENT	STA	STATION
ADL	ADDITIONAL	ELEV	ELEVATOR	IT	INTRAVENOUS TRACK	PERP	PERPENDICULAR	STAG	STAGED
ADH	ADHESIVE	EMER	EMERGENCY	PT	POINT OF INTERSECTION	STC	SOUND TRANSMISSION COEFFICIENT	SYMM	SYMMETRICAL
ADJ	ADJUSTABLE	END	ENDURE	PL	PLATE	STD	STANDARD	SYST	SYSTEM
ADJ	ADJUSTABLE	ENGR	ENGINEER	PLAM	PLASTIC LAMINATE	STE	STEEL		
AFF	ABOVE FINISH FLOOR	EOS	EDGE OF SLAB	PLAS	PLASTER	STRUCT	STRUCTURAL		
AGF	ABOVE FINISH GRADE	EP	ELECTRICAL PANEL	PLBG	PLUMBING	STS	SELF-TAPPING STEEL		
AGS	ABOVE FINISH SLAB	EPR	ELECTRICAL PANEL BOARD	PLF	POUNDS PER LINEAR FOOT	SUSP	SUSPENDED		
AGG	AGGREGATE	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	PNU	PNEUMATIC	SUP CLG	SUPPLY CEILING		
AL	ALUMINUM	EQ	EQUAL	PNL	PANEL	SWC	SERVICE		
ALT	ALTERNATE	EQL SP	EQUALLY SPACED	PNL BD	PANEL BOARD	SWT	SOUTHWEST		
ANOD	ANODIZED	EQUIP	EQUIPMENT	PNT P	PORTRAIT	SYMM	SYMMETRICAL		
APPROX	APPROXIMATE(LY)	EQUIP	EQUIPMENT	PP	PUSH PLATE				
ASPH	ASPHALT	EQUIV	EQUIVALENT	PPM	PARTS PER MILLION				
AVG	AVERAGE	EST	ESTIMATE(D)	PR	PRUST				
BB	BULLETIN BOARD	EXIST	EXISTING	T	TREAD				
BD	BOARD	EXP	EXPANSION	T&B	TOP AND BOTTOM				
BWTN	BETWEEN	EXT	EXTerior	T&G	TONGUE AND GROOVE				
BTM	BITUMEN	EXT	EXTENDING	TC	TOP CONCRETE, TOP OF CURB				
BBLG	BLOCKING	EXTR	EXISTING BRICK	TR	TRENCH-TRAP				
BLDG	BUILDING	FF	FACE TO FACE	TRG	TEMPORARY				
BMD	BENCHMARK	FA	FIRE ALARM	TEL	TELEPHONE				
BOT	BOTTOM OF METAL DECK	FAS	FIRE ALARM STATION	TEMP	TEMPORARY				
BOT	BOTTOM OF OTHERS	FB	FLAT BAR	THRM	TERMAL				
BOS	BOTTOM OF STEEL	FCU	FAN COIL UNIT	THRES	THICKNESS				
BSMT	BASEMENT	FD	FIRE DEPARTMENT	THRU	THROUGH				
BUR	BUILT UP ROOFING SYSTEM	FDN	FOUNDATION	TMPD GL	TEMPERED GLASS				
C	CHANNEL	FE	FIRE EXTINGUISHER	TO	TOP OF				
CAB	CABINET	FE	FIRE EXTINGUISHER	TOP	TOP OF				
CPT	CARPET	FIRE HOSE CABINET	TP	TOP OF PARTITION	TOTAL				
CST	CAST IRON	FIRE HOSE EXTINGUISHER CABINET	TPH	TOP OF PARTITION	TOT				
COR	CARD CONTROL READER	FIRE HYDRANT	TRANS	TOP OF PARTITION	TOT				
CSTW	CASEWORK	FIRE HYDRANT	TTB	TOP OF PARTITION	TOT				
CCT	CUBICLE CURTAIN TRACK	FLASH	TRANSP	TOP OF PARTITION	TOT				
CO	CUBICLE	FLASHING	TTB	TOP OF PARTITION	TOT				
CSP	CABLE STYLING	FLEX	TRANS	TOP OF PARTITION	TOT				
CG	COMBINATION STYLING	FIRE RETARDANT	TV	TOP OF PARTITION	TOT				
CEM	CEMENT, CEMENTITIOUS	FIRE RETARDANT TREATMENT	TYP	TOP OF PARTITION	TOT				
CER	CERAMIC TILE	FRZ	TOP OF PARTITION	TOT	TOT				
CH BD	CHALKBOARD	FREEZER	TOP	TOT	TOT				
CL	CHARTER LINE	FROZEN	VACUUM	VACUUM	VACUUM				
CLG	CLING	FROZEN SHOWER BENCH	VB	VALVE BOX	VALVE BOX				
CLR	CLEAR	FASTER	VCT	VINYL COMPOSITION TILE	VINYL COMPOSITION TILE				
CLO	CLOSET	FOOT, FEET	VERT	VITREOUS	VITREOUS				
CMU	CONCRETE MASONRY UNIT	FTG	VERTICAL	WATER CLOSET, WALL COVERING	WATER CLOSET, WALL COVERING				
CNS	COLD WATER CHANNEL	FURN	VEST	WOOD	WOOD				
CW	COLD WATER	FURNITURE	VEST	WINDOW	WINDOW				
COL	COLUMN	FTXR	VEST	WIRE GLASS	WIRE GLASS				
CNTR	COUNTERSUNK	GAS	VITREOUS	WIRE MESH	WIRE MESH				
CONC	CONCRETE	GAGE, GAGE	WIT	WIRE MESH	WIRE MESH				
CONF	CONFERENCE	GAL	WITHOUT	W/O	W/O				
CON	CONSTRUCTION	GALV	WITHOUT	W/O	W/O				
CONT	CONTINUOUS	GALVANIZED	NOT APPLICABLE	W/O	W/O				
CONTR	CONTRACTOR	GCR	NATURAL	W/O	W/O				
CONTR J	CONTRACTOR JOINT	GFR	NEUTRAL	W/O	W/O				
CG	CORNER GUARD	GFR	NO CONTRACT	W/O	W/O				
CORR	CORRUGATED, CORRIDOR	GFR	NUMBER	W/O	W/O				
CUBIC	CUBIC	GML	NOMINAL	W/O	W/O				
D	DEPTH	GVL	NOISE REDUCTION COEFFICIENT	W/O	W/O				
DBL	DOUBLE	GYP	NOT TO SCALE	W/O	W/O				
DBL ACT	DOUBLE ACTING	GYP BD	NOT TO SCALE	W/O	W/O				
DEMO	DEMOLISH	GYP PLAS	NORTH	W/O	W/O				
DEPT	DEPARTMENT	H	NORTH	W/O	W/O				
DET	DETAIL	H	NOT APPLICABLE	W/O	W/O				
DET	DETAIL	H	NOT APPLICABLE	W/O	W/O				
DET	DETAIL	H	NOT APPLICABLE	W/O	W/O				
DIA	DIAmeter	HB	NOT APPLICABLE	W/O	W/O				
DIAG	DIAGONAL	HC	NOT APPLICABLE	W/O	W/O				
DIFF	DIFFUSER	HD	NOT APPLICABLE	W/O	W/O				
DM	DIMENSION	HDBD	NOT APPLICABLE	W/O	W/O				
DIM	DIMENSION	HDBD	NOT APPLICABLE	W/O	W/O				
DIST	DISTANCE	HDRD	NOT APPLICABLE	W/O	W/O				
DIST	DISTANCE	HDRD	NOT APPLICABLE	W/O	W/O				
DK	DECK	HDRD	NOT APPLICABLE	W/O	W/O				
DN	DOWN	HDRD	NOT APPLICABLE	W/O	W/O				
DRN	DRAIN, DRAIN	HDRD	NOT APPLICABLE	W/O	W/O				
DRN	DRAIN, DRAIN	HDRD	NOT APPLICABLE	W/O	W/O				
DSP	DROPS	HDRD	NOT APPLICABLE	W/O	W/O				
DSP	DRY STANPIPE	HDRD	NOT APPLICABLE	W/O	W/O				
DTP	DRAPERY TRACK	HDRD	NOT APPLICABLE	W/O	W/O				
DWL	DETAL	HDRD	NOT APPLICABLE	W/O	W/O				
DW	DISHWASHER	HDRD	NOT APPLICABLE	W/O	W/O				
DWGWDS	DRAWING / DRAWINGS	HDRD	NOT APPLICABLE	W/O	W/O				

TYPICAL ARCHITECTURAL REFERENCE SYMBOLS

TYPICAL ARCHITECTURAL REFERENCE SYMBOLS



ARCHITECTURAL DIMENSIONING CONVENTIONS

1. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF THE WORK, DIRECTIONS TO THE APPROXIMATE LOCATION SHOWN. DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.

NOTE 3 CONTINUED: ALL CONTRACTORS AND SUPERVISORY PERSONNEL SHALL REVIEW THE GENERAL AND SUPPLEMENTARY INFORMATION TO THE CONTRACT. ALL WORK SHALL CONFORM WITH APPLICABLE BUILDING CODES, REGULATIONS AND STANDARDS. CONTRACTOR AND OWNER SHALL OBTAIN ALL REQUIRED BUILDING AND OCCUPANCY PERMITS.

NOTE 4 CONTINUED: CONTRACTOR SHALL BECOME FULLY FAMILIAR WITH THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, SCHEDULES, DIMENSIONS, MATERIALS, AND SPECIFICATIONS. SEE THE NOTES BELOW FOR DIMENSIONING CONVENTIONS USED ON THIS PROJECT.

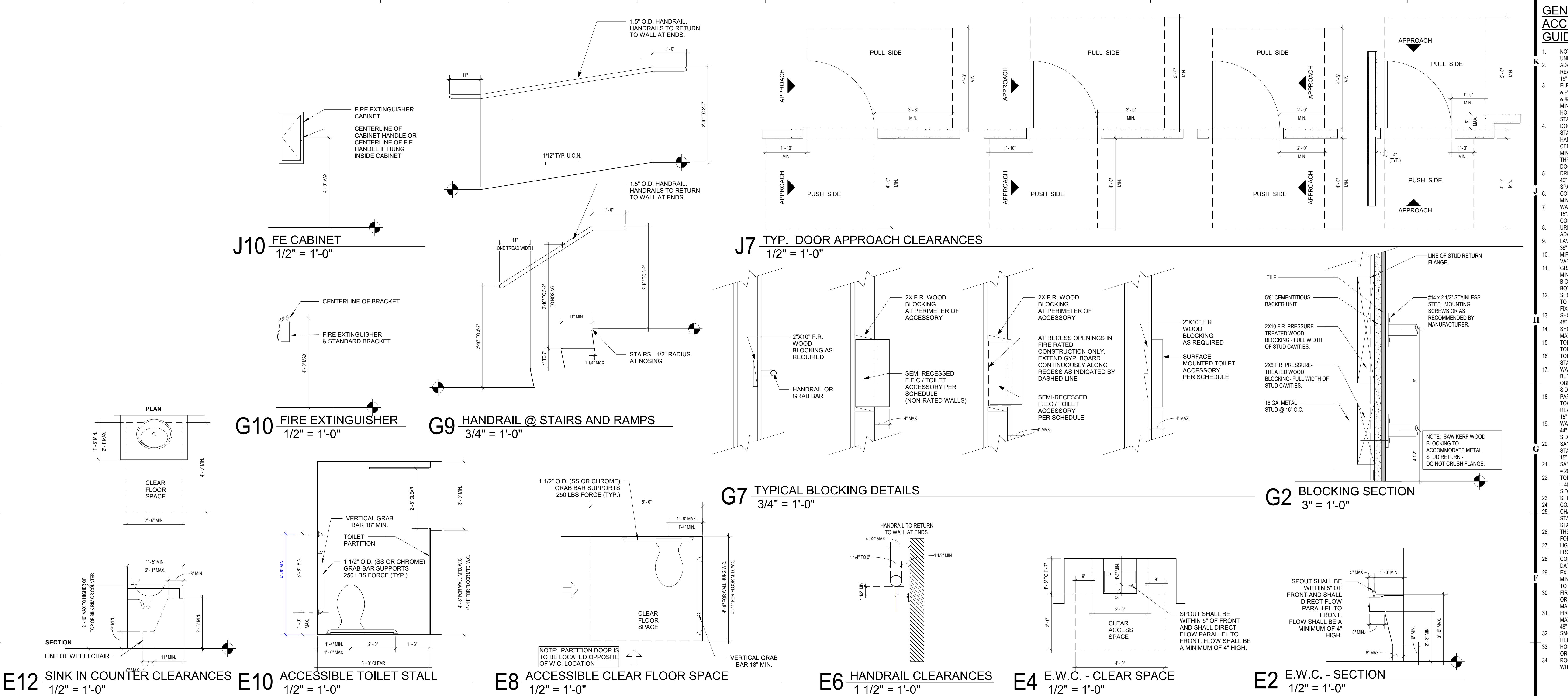
2. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAFTED TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN OR NOTED ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, SCHEDULES, DIMENSIONS, MATERIALS, AND SPECIFICATIONS. SEE THE NOTES BELOW FOR DIMENSIONING CONVENTIONS USED ON THIS PROJECT.

3. EXCEPT WHERE SPECIFICALLY NOTED TO THE CONTRARY, ALL DIMENSIONS SHOWN ON THE ARCHITECTURAL DRAWINGS CONFORM TO THE FOLLOWING CONVENTIONS:

- A. DIMENSIONS UTILIZING THE "CENTERLINE" SYSTEM, REFERRED TO AS "DIM' C" OR "DIM' E" OR "DIM' F" AS SHOWN ON PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, SCHEDULES, DIMENSIONS, MATERIALS, AND SPECIFICATIONS. SEE THE NOTES BELOW FOR DIMENSIONING CONVENTIONS USED ON THIS PROJECT.
- B. DIMENSIONS UTILIZING THE "PARTITION" SYSTEM, REFERRED TO AS "DIM' A" OR "DIM' B" AS SHOWN ON PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, SCHEDULES, DIMENSIONS, MATERIALS, AND SPECIFICATIONS. SEE THE NOTES BELOW FOR DIMENSIONING CONVENTIONS USED ON THIS PROJECT.
- C. DIMENSIONS UTILIZING THE "DOOR" SYSTEM, REFERRED TO AS "DIM' D" AS SHOWN ON PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, SCHEDULES, DIMENSIONS, MATERIALS, AND SPECIFICATIONS. SEE THE NOTES BELOW FOR DIMENSIONING CONVENTIONS USED ON THIS PROJECT.
- D. DIMENSIONS UTILIZING THE "WALL" SYSTEM, REFERRED TO AS "DIM' E" AS SHOWN ON PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, SCHEDULES, DIMENSIONS, MATERIALS, AND SPECIFICATIONS. SEE THE NOTES BELOW FOR DIMENSIONING CONVENT


**GENERAL NOTES
ACCESSIBILITY
GUIDELINES:**

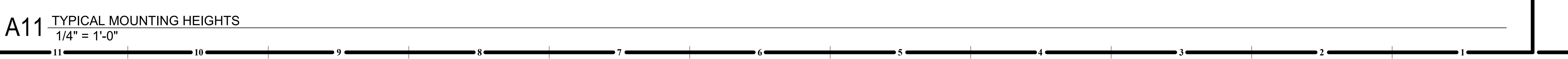
1. ALL DIMENSIONS ARE MEASURED FROM FLOOR, UNLESS NOTED OR SHOWN OTHERWISE.
2. ADA UNOBSTRUCTED REACH RANGES: ADA FORWARD REACH = 48" MAX & ADA SIDE REACH = 48" MAX & 15" MIN.
3. ELEVATORS: STANDARD CALL BUTTONS: 36" TO 48" TO C.L. & PROTRUDE 1" MAX. ADA CALL BUTTONS: 42" TO C.L. (TYP.) & 48" MAX. (34" SHALLOWEST DIM.) ADA VISIBLE SIGNAL: 72" MIN. TO 78" MAX. ADA SHOWER HEAD: 72" MAX. ADA HOISTWAY: 67" TO BASE OF CHARACTERS W/TACTILE STAR 2 & HIGH CHARACTERS.
4. DOOR HARDWARE (TO CENTER OF HARDWARE): STANDARD = 48" MAX. PULL PLATE = 42", PULL HANDLES = 40", KNOBS/LEVERS = 40", PANIC EXIT = 42" CENTERLINE OF BAR, KICKPLATES = 42" WIDTH + DOOR WIDTH MINUS 2"; CENTER HEIGHT = 16" MAX. THREE WHEEL STUDS: 1" MAX. SWINGING DOORS: 34" MAX. ADA HARDWARE = 34" MIN. TO 48" MAX. DRINKING FOUNTAINS & EWC'S (TO SPOUT) STANDARD = 40" TYP. 42" MAX. ADA = 34" MAX. (27" MIN. CLEAR KNEE COUNTERTOPS (TO SINK RIM COUNTERTOP): ADA = 28" MIN. TO 34" MAX.
5. WATER CLOSETS (TO TOP OF SEAT): STANDARD = 14" TO 16" MAX. (MIN. TO SEAT) = 17" TO 19" ADA FLUSH CONTROLS = 44" MAX.
6. URINALS: STANDARD = 24" MAX. ADA = 17" MAX. ADA FLUSH CONTROLS = 44" MAX.
7. LAUNDRY: COUNTERTOP (TO COUNTERTOP): STANDARD = 36" MAX. ADA = 34" MAX. (25" MIN. CLEAR KNEE SPACE) MIRRORS (TO B.C. REFLECTIVE SURFACE): STANDARD = VARIES. ADA = 40" MAX.
8. GROUNDED OUTLET: 120V, 15A, 30" MAX. (TOP OF BAR: WATER CLOSETS = 33" MIN. TO 38" MAX. SHOWERS = 32" MIN. TO 38" MAX. FROM B.C. SHOWER): BATH: TOP BAR = 32" MAX. BOT. BAR = 19" ABOVE TUB.
9. SHOWER HEAD: (FROM FLOOR TO HEAD): STANDARD = 72" TO 84" MAX. SPRAY UNIT W/HOSE = 30" LONG. MIN. ADA = 48" AFF.
10. SHOWER CONTROLS (TO CONTROL AREA): STANDARD = 36" MAX. (TOP): ADA = 38" MAX. TO 48" MAX.
11. SHOWER HEAD: (FROM FLOOR TO HEAD): STANDARD = 72" TO 84" MAX. SPRAY UNIT W/HOSE = 30" LONG. MIN. ADA = 48" AFF.
12. SHOWER HEAD: (FROM FLOOR TO HEAD): STANDARD = 72" TO 84" MAX. SPRAY UNIT W/HOSE = 30" LONG. MIN. ADA = 48" AFF.
13. SHOWER CONTROLS (TO CONTROL AREA): STANDARD = 36" MAX. (TOP): ADA = 38" MAX. TO 48" MAX.
14. TOILET PARTITION: TOILETS = 12" TO BOT. & 78" TO TOP. LAVATORY = 18" TO BOT. & 68" TO TOP. TOILET PAPER HOLDERS (TO C.L. OF OUTLET): STANDARD = 24" ADA = 19" MIN. TO 24" MAX.
15. WALL MOUNTED SOAP DISPENSERS (TO C.L. OF PUSH BUTTON): STANDARD = 40" ADA = 40" MAX. & 15" MIN. ADA = 34" MAX. ADA SIDE REACH = 40" MAX. & 15" MIN. ADA = 34" MAX. ADA = 15" MIN. TO 24" MAX. (TO C.N.).
16. SHOWER TOWEL DISPENSER/WASTE RECEPTACLE (TO TOWEL SLOTTED): STANDARD = 40" MAX. ADA FORWARD REACH = 40" MAX & 15" MIN. ADA SIDE REACH = 48" MAX.
17. WARM AIR HAND DRYER (TO PUSH SWITCH): STANDARD = 44" MAX. ADA FORWARD REACH = 40" MAX & 15" MIN. ADA SIDE REACH = 48" MAX. ADA = 15" MIN.
18. SANITARY NAPKIN DISPENSER (TO C.L. OF SINK): STANDARD = 40" MAX. ADA FORWARD REACH = 48" MAX & 15" MIN. ADA SIDE REACH = 40" MAX. & 15" MIN.
19. SINK: (TOP): STANDARD = 40" MAX. ADA = 15" MIN. ADA = 34" MAX. ADA = 15" MIN. TO 24" MAX. (TO C.N.).
20. SHELVES: ADA = 45" MAX.
21. COAT HOOKS: STANDARD = 68" ADA = 48" MAX.
22. CHALKBOARDS: TACKBOARDS & MARKERS: STANDARD = 48" (RECOMMENDED: 10" TO 10" BOARD).
23. THERMOSTATS & CONTROL DEVICES (TO C.L.): ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX. ADA = 15" MIN. TO 24" MAX. (TO C.N.).
24. UNIVERSAL DOOR JAMB AND CARD REVERSERS (TO C.L.): LOCATE 6" FROM DOOR JAMB AND CARD REVERSERS (TO C.L.).
25. CONVENIENCE RECEPTACLES - ELECTRICAL/TELEPHONE: DATA (TO C.L.): STANDARD = 18" ADA = 15" MIN.
26. EXHAUST FAN: STANDARD = 2" MIN. BELOW CEILING. 2" MIN. ABOVE DOOR FRAME. EQUAL SPACE FROM CEILING TO TOP OF FRAME.
27. FIRE EXTINGUISHERS (TO TOP): ADA = 40" MAX. ADA = 15" MAX. ADA = 40" MAX. (TOP) ARE MORE THAN 40 LBs. 42" MAX. ADA = 40" MAX. (TOP).
28. FIRE ALARM PULL STATIONS (TO LEVER): STANDARD = 48" MAX. ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX.
29. SMOKE AND/OR HEAT DETECTORS: STANDARD = CEILING HEIGHT.
30. HORN SPEAKER/VISUAL SIGNALS: STANDARD = 80" AFF. OR 6" BELOW CEILING - WHICHEVER IS LOWER.
31. ROOM SIGNAGE (TO C.L.): STANDARD = 60" HIGH AFF. & WITHIN 18" OF LATCH SIDE OF DOOR.
32. 34. NOTE: SAW KERF WOOD BLOCKING TO ACCOMMODATE METAL STUD RETURN - DO NOT CRUSH FLANGE.

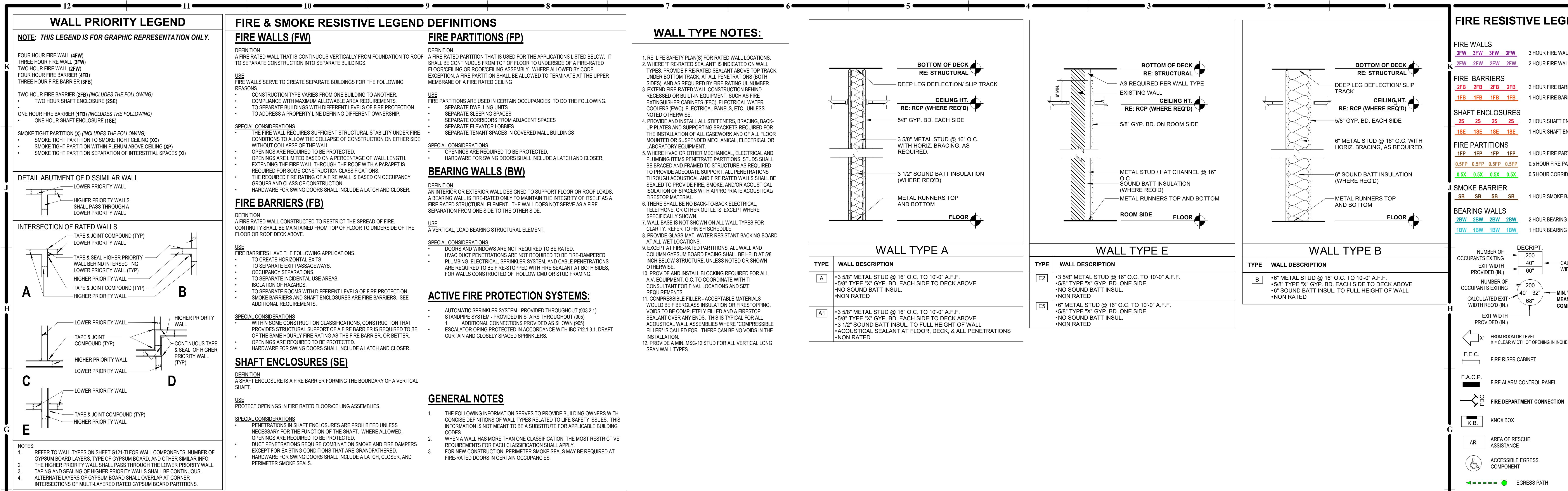


MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS												TOILET ACCESSORY TYPICAL MOUNTING HEIGHTS											
FINISH FLOOR	SPOT TO TOP OF CABINET INVERTER	48" MAX	TO PULL	84"	LINE OF CEILING	SEE PLAN OR ELEV	FINISH FLOOR	PAPER TOWEL DISPENSER	48" MAX	TO DISP. SLOTTED	48" MAX	TO TUB	48" MAX	TO SINK	40" MAX	REFLECTIVE SURFACE	34" MAX	TO COUNTER					
ACCESSORY TYPE	FIRE EXTINGUISHER CABINET	MANUAL FIRE PULL	FIRE ALARM, STROBE/BRIGHT/AUDIBLE ALARM	WALL MOUNTED EXIT SIGN	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	ACCESSORY TYPE	PAPER TOWEL DISPENSER & TRASH	48" MAX	TO SINK	40" MAX	TO COUNTER	40" MAX	TO COUNTER	34" MAX	TO COUNTER	18"	URINAL
COMMENTS	SEMI RECESSED	SURFACE MOUNTED	SURFACE MOUNTED	WALL MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	COMMENTS	SURFACE MOUNTED	SURFACE MOUNTED	RECESSED	SURFACE MOUNTED	SURFACE & SURFACE	SURFACE MOUNTED	SURFACE MOUNTED	RECESSED	SURFACE MOUNTED	12"	WALL MOUNTED

MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS												PLUMBING FIXTURE TYPICAL MOUNTING HEIGHTS												
FINISH FLOOR	CLOSET HANGER ROD & SHELF	WALL PHONE	TELEPHONE HOUSING	CUP DISPENSER	WALL SWITCH	TELEPHONE OUTLET	RECEP/PHONE/TELEPHONE DATA	RECEP/PHONE/TELEPHONE DATA	SPECIALTY EQUIP. (IE THERMOSTAT CARD READER/INTERCOM)	ELEVATOR CALL BUTTON	ELEVATOR VISIBLE SIGNAL INDICATOR	ACCESSORY TYPE	SHOWER MIXING VALVE	78" UNO	SHOWER HEAD	34"	HAND HELD SHOWER	34"	LAVATORY	34"	CHILDREN'S DRINKING FOUNTAIN	38" MAX	DOUBLE DRINKING FOUNTAIN	38"-45" TO SPOUT
ACCESSORY TYPE	WALL MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	COMMENTS	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	
COMMENTS																								

GRAB BAR TYPICAL MOUNTING HEIGHTS & TOILET ACCESSORY PLANS											
FINISH FLOOR	ACCESSORY TYPE	ADA TOILET GRAB BAR	SHOWER STALL GRAB BAR	ROLL-IN SHOWER STALL GRAB BAR	TYPICAL ACCESSORIES AT TYPICAL ADA SINK ENCLOSURE PANEL CLEARANCE						
COMMENTS	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	NOTE: SANITARY NAPKIN DISPOSAL AT WOMEN'S & UNISEX ONLY							





GENERAL DESCRIPTION

PROJECT NAME: REECE NICHOLS TENANT IMPROVEMENTS
PROJECT LOCATION: 230 SW MAIN ST., LEE'S SUMMIT, MO 64063
COUNTY: JACKSON

COLLINS WEBB ARCHITECTURE
307B SW MARKET STREET
LEES SUMMIT, MISSOURI 64063

INTERNATIONAL BUILDING CODE - 2018 ED.
INTERNATIONAL PLUMBING CODE - 2018 ED.
INTERNATIONAL MECHANICAL CODE - 2018 ED.
INTERNATIONAL ELECTRICAL CODE - 2018 ED.
INTERNATIONAL FIRE CODE - 2018 ED.
ADA STANDARDS FOR ACCESSIBLE DESIGN - 2010 ED.
ICC/ANSI A117.1: ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - 2009 ED.

CODE INFORMATION

BUILDING/PROJECT USE:	OFFICE	SECTION 309	TABLE/SECTION/REFERENCE
CONSTRUCTION TYPE:	TYPE VB (NON-SPRINKLED)	SECTION 301	
OCCUPANCY CLASSIFICATION:	GROUP "B"	SECTION 309	
BASE ALLOWABLE AREA (B)	9,000 SQ. FT.	TABLE 506.2	
FIRST LEVEL	2,440 SQ. FT.		
SECOND LEVEL	5,720 SQ. FT.		
ALLOWABLE STORIES	2 STORIES	TABLE 504.4	
ACTUAL NUMBER OF STORIES	2 STORIES - EXISTING		
ALLOWABLE HEIGHT	40'-0"	TABLE 504.3	
ACTUAL HEIGHT IN FEET	29'-10" - EXISTING		

FIRE RESISTIVE REQUIREMENTS

PRIMARY FRAME	0 HRS	TABLE 601	SECTION 1020.4
WALLS	0 HRS	TABLE 601	SECTION 1020.4
BEARING WALLS INT/EXT	0 HRS / 2 EXT. HRS	TABLE 601	SECTION 1020.4
FLOOR CONSTRUCTION (SEPARATING OCCUPANCIES)	0 HRS	TABLE 601	SECTION 1020.4
CEILING/ROOF	0 HRS	TABLE 601	SECTION 1020.4
CORRIDORS	0 HRS	TABLE 601	SECTION 1020.4
SEPARATION BETWEEN 1ST FLOOR "A-2" (FUTURE) AND 2ND FLOOR "B"	2 HRS	TABLE 1018.1	SECTION 1020.4

FIRE EXTINGUISHERS

1. PROVIDE PORTABLE FIRE EXTINGUISHERS IN OCCUPANCIES AND LOCATIONS AS REQUIRED BY THE LOCAL GOVERNING FIRE PREVENTION CODE. SEE PLANS FOR SUGGESTED LOCATIONS. NOTIFY ARCHITECT OF ANY PROPOSED RELOCATION OR IF A CONFLICT IS ENCOUNTERED.
2. PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED, INSPECTED, AND MAINTAINED IN ACCORDANCE WITH NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS.

CEILING HEIGHT NOTES: (IBC 1208)

1. ALL MEANS OF EGRESS TO HAVE A MINIMUM CEILING HEIGHT OF 7'-6" A.F.F., NOR SHALL HAVE ANY PROJECTION FROM THE CEILING BE LESS THAN 6'-8" A.F.F.
2. OCCUPIED SPACES, HABITABLE SPACES AND CORRIDORS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'-6" A.F.F.
3. BATHROOMS, TOILET ROOMS, KITCHENS, STORAGE ROOMS AND LAUNDRY ROOMS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'-0" A.F.F.

INTERIOR FINISHES

GROUP A	MAX. FLAME SPREAD	TABLE/SECTION/REFERENCE
EXIT ENCLOSURES	CLASS A (0-25)	803.13
LOBBIES & CORRIDORS	CLASS B (26-75)	803.13
ALL OTHER SPACES	CLASS C (76-200)	803.13
TEXTILES	CLASS A (0-25)	805
SMOKE DEVELOPED	0-450	TABLE/SECTION/REFERENCE

NOTE: Decorative Materials and Trim (including plastics) must comply with IBC Section 806.

GENERAL EXITING REQUIREMENTS

DEAD END CORRIDOR	200 FEET 20 FEET 75' FEET, OR 100' IF OCC. < 50 MIN. CORRIDOR WIDTH 44", OR 36" IF OCC. < 50	TABLE 1017.2 SECTION 1020.4 SECTION 1020.2.1
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POSTING OF OCCUPANT LOAD

EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE EXISTING EXIT STAIRS OR NEAR THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT.

EXIT REQUIREMENTS

A. REQUIRED CAPACITY	TABLE/SECTION/REFERENCE
1. STAIRS - 0.3" / PERSON 2. OTHER COMPONENTS - 0.2" / PERSON	1005.1
B. MINIMUM NUMBER	1005.1
1. OCCUPANT LOAD OF 1-500 PERSONS - 2 EXITS PER STORY 2. OCCUPANT LOAD OF 501-1000 PERSONS - 3 EXITS PER STORY 3. OCCUPANT LOAD OF MORE THAN 1000 PERSONS - 4 EXITS PER STORY	1006.3.1

SIGNAGE

1. PROVIDE SIGNAGE "IN FIRE EMERGENCY DO NOT USE ELEVATOR, USE EXIT STAIRS" IN ACCORDANCE WITH IBC (3002.3)

OCCUPANT LOAD PER LEVEL

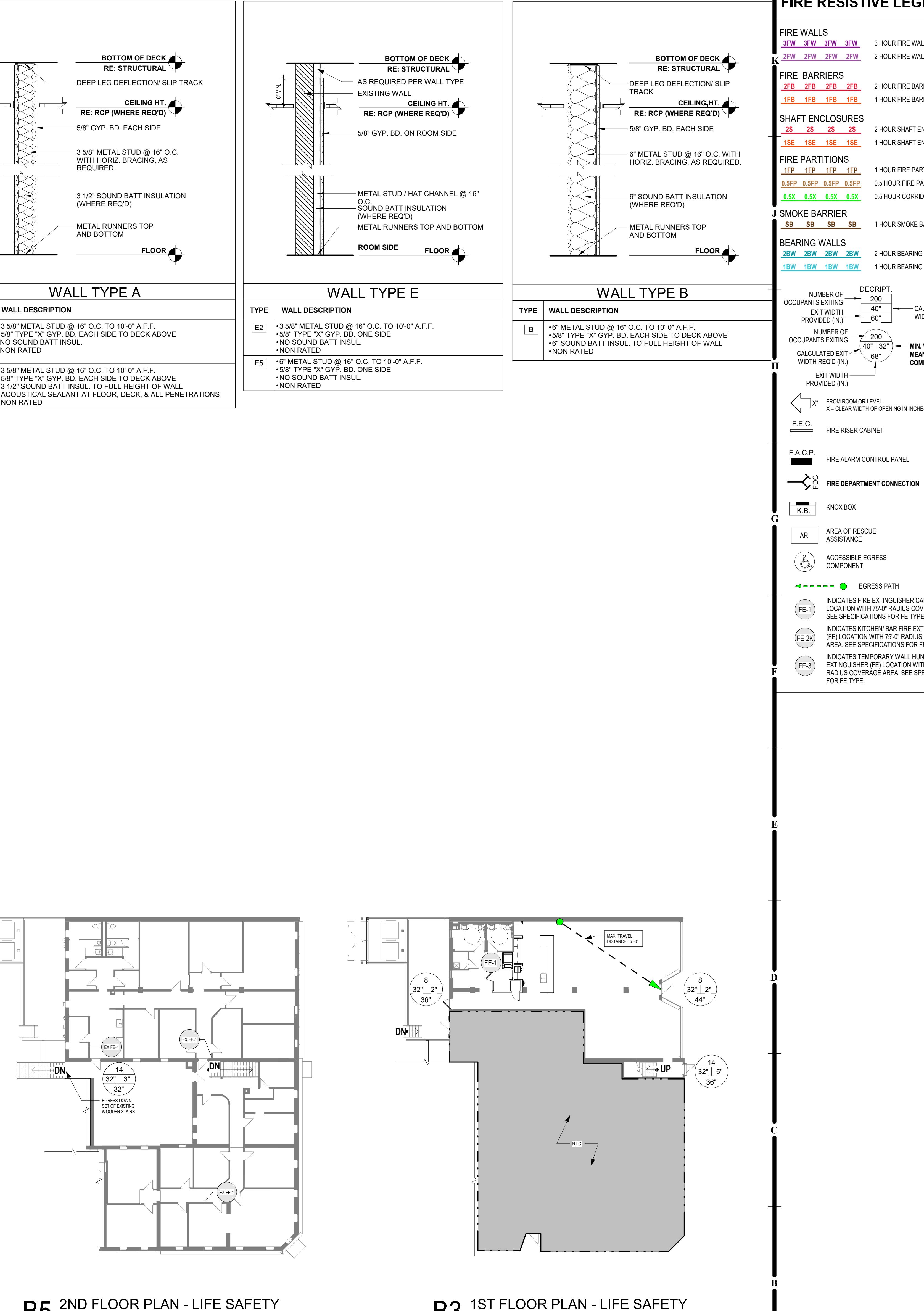
LEVEL	EXITS PROVIDED THIS LEVEL	EXITS PROVIDED THIS LEVEL	TABLE/SECTION/REFERENCE
B: OFFICE SQUARE FOOTAGE (2205 SF)	15 OCCUPANTS	150 SF/OC	
EXITS REQUIRED THIS LEVEL: B	2 EXITS	2 EXITS	1006.3.1
OCCUPANT LOAD : SECOND LEVEL			
B: OFFICE SQUARE FOOTAGE (4032 SF)	27 OCCUPANTS	150 SF/OC	
EXITS PROVIDED THIS LEVEL:	2 EXIT - EXISTING		1006.3.1

TOTAL OCCUPANT LOAD

TOTAL OCCUPANT LOAD FOR BUILDING (BUSINESS ONLY): 42 OCCUPANTS

PLUMBING FIXTURE REQUIREMENTS

B OCC WATER CLOSETS	= 1/25 PER FIRST 50, 1/50 FOR 50+ BOTH MALE/FEMALE			
B OCC LAVATORIES	= 1/40 FOR FIRST 80, 1/80 FOR 80+ BOTH MALE/FEMALE			
B OCC DRINKING FOUNTAIN	= 1/100			
B OCC SERVICE SINK	= 1			
REQUIRED:	WATER CLOSETS LAVATORIES DRINKING FOUNTAINS SERVICE SINKS			
1ST FLOOR	M 825 = .32 F 825 = .32	M 840 = .2 F 840 = .2	15/100 = .15	1 REQ
2ND FLOOR	M 1425 = .56 F 1425 = .56	M 1440 = .35 F 1440 = .35	27/100 = .27	1 REQ
PROVIDED:	LEVEL	WATER CLOSETS LAVATORIES DRINKING FOUNTAINS SERVICE SINKS		
1ST FLOOR	2	2	1 BOTTLE FILLER	1
2ND FLOOR	4	2	1 BOTTLE FILLER WATER PROVIDED	



12	11	10	9	8	7	6	5	4	3	2	1
SPECIFICATIONS - PRODUCT & INSTALLATION GENERAL REQUIREMENTS											
GENERAL REQUIREMENTS APPLICABLE TO ALL MATERIALS FOR THE PROJECT:											
1. NO SUBSTITUTIONS OF MATERIALS WITHOUT COMPLETION OF A SUBSTITUTION REQUEST FORM & APPROVAL OF SUBSTITUTION BY BOTH ARCHITECT & OWNER/PROJECT MANAGER. FORM CAN BE REQUESTED FROM ARCHITECT.											
2. A CONSIDERATE SET OF DRAWINGS PROVIDED BY THE PROJECT TEAM ADHERES TO MANUFACTURER REQUIREMENTS AND INSTALLATION ARE REQUIRED TO BE FOLLOWED WITH SECTIONS PROVIDED IN DRAWINGS. IF REQUIRED THE ARCHITECT WILL ISSUE ADDITIONAL SECTIONS TO PROVIDE CLARITY TO PRODUCTS OR INSTALLATION REQUIREMENTS.											
DIVISION 1 - GENERAL REQUIREMENTS											
1. A SEPARATE SPECIFICATION FOR GENERAL REQUIREMENTS RELATED TO ADMINISTRATION OF THIS CONTRACT.											
A. CONTRACTOR LICENSES											
1. THE CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED IN THE PROJECT SHALL BE REQUIRED TO OBTAIN AND PAY FOR ALL NECESSARY LICENSES AS REQUIRED BY ANY LAW OR AGENCIES HAVING JURISDICTION (AHJ) OVER THE PROJECT.											
B. BUILDING PERMITS											
1. THE GENERAL CONTRACTOR WILL PAY FOR ALL PERMITS REQUIRED BY ANY AGENCY HAVING JURISDICTION (AHJ) OVER THE PROJECT FOR ALL WORK TO BE PERFORMED BY THE GENERAL CONTRACTOR.											
C. UTILITIES											
1. THE CONTRACTOR SHALL PAY THE NECESSARY FEES TO CONNECT TO EXISTING UTILITIES AT THE PROPERTY LINE OR IN ADJACENT STREETS AND RIGHT OF WAY AS SPECIFIED, NECESSARY, AND/OR INCLUDED IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL PAY ALL UTILITY COSTS (BILLS) DURING CONSTRUCTION UNTIL OWNER TAKES POSSESSION OF THE FACILITY OR THE FACILITY IS CERTIFIED AS SUBSTANTIALLY COMPLETE.											
D. PROTECTION OF FINISHED WORK											
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FINISHED SURFACES. PROTECTION FOR FINISHES SUCH AS DOORS, WALLS AND FLOORS SHOULD BE PROVIDED AS REQUIRED. ANY DAMAGES TO THESE AREAS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR OR REPLACE.											
E. GENERAL CONDITIONS											
1. ANY DISCREPANCY OR CONFLICT WITHIN OR BETWEEN DRAWINGS AND ANY DISCREPANCY OR CONFLICT BETWEEN ANY DRAWINGS AND ANY SPECIFICATION SHALL BE NOTIFIED TO THE ATTENTION OF THE ARCHITECT. NOTWITHSTANDING, DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ATTENDANCE OF OWNERS ATTENTION AND CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BROUGHT IN THE MORE COSTLY OR DIFFICULT MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF THE WORK SHALL BE PROVIDED BY THE CONTRACTOR.											
2. THE GENERAL CONTRACTOR SHALL KEEP A COMPLETE PROTOTYPE SET OF DOCUMENTS ON THE PROJECT SITE AT ALL TIMES FOR REFERENCE DURING CONSTRUCTION.											
3. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE CONTRACTOR'S BEST SKILLS AND EXPERIENCE. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER CONSTRUCTION MEANS AND METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.											
4. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER ALL JOB SITE SAFETY FEATURES AND POLICIES. THE GENERAL CONTRACTOR SHALL HAVE A SAFETY COORDINATOR AND BE RESPONSIBLE TO HOLD REGULARLY SCHEDULED SAFETY TRAINING WITH ALL JOB SITE PERSONNEL, INCLUDING ALL SUB-CONTRACTOR PERSONNEL.											
5. NEITHER THE ARCHITECTS OR THE OWNERS INSPECTION NOR FAILURE TO INSPECT SHALL RELIEVE THE CONTRACTOR OF ITS LIABILITY FOR ANY DAMAGE TO THE PROPERTY. THE CONTRACTOR SHALL SOLELY REMEDY THE SAME AT THE CONTRACTOR'S EXPENSE. NO ACCEPTANCE OR PAYMENT BY THE OWNER OR ARCHITECT SHALL CONSTITUTE A WAIVER OF THE FOREGOING AND NOTHING HEREIN SHALL EXCLUDE OR LIMIT ANY WARRANTIES IMPLIED BY LAW.											
6. THE GENERAL CONTRACTOR SHALL SO CONDUCT ITS OPERATIONS AS NOT TO UNREASONABLY INTERFERE WITH THE WORK OF NEIGHBORHOODS ADJACENT OR NEAR TO THE PROJECT SITE.											
7. DO NOT DRAW SCALINGS.											
F. PROJECT REQUIREMENTS											
1. THE GENERAL CONTRACTOR REPRESENTS THAT IT POSSESSES THE SKILLS REQUIRED FOR THE WORK, ASSUMES THE RESPONSIBILITIES OF AN EMPLOYER FOR PERFORMANCE OF THE WORK, AND ACTS AS AN EMPLOYER OF ONE OR MORE EMPLOYEES BY PAYING WAGES, DIRECTING ACTIVITIES AND PERFORMING OTHER SIMILAR FUNCTIONS. THE GENERAL CONTRACTOR IS AN INDEPENDENT CONTRACTOR, FREE TO DETERMINE THE MANNER IN WHICH THE WORK IS PERFORMED.											
2. THE GENERAL CONTRACTOR SHALL PROVIDE, AND MAINTAIN IN GOOD WORKING ORDER, THE FOLLOWING ITEMS FOR USE BY THE PROJECT SUPERINTENDENT DAILY DURING THE ENTIRE DURATION OF THE PROJECT:											
A. LAPTOP WITH INTERNET ACCESS											
B. DIGITAL CAMERAS WITH VIDEO CAPABILITY AND WITH PROPER CABLES TO ATTACH TO LAPTOP											
C. EMAIL ACCESS THROUGH THE LAPTOP											
D. A PRINTER/SCANNER/FAX MACHINE WITH PROPER CABLES TO ATTACH TO LAPTOP											
E. CELL PHONE											
F. THE GENERAL CONTRACTOR SHALL HAVE A CONSTRUCTION SUPERINTENDENT ASSIGNED TO THIS PROJECT, AND THIS SUPERINTENDENT SHALL BE ON SITE EVERY DAY THERE IS ANY CONSTRUCTION ON THE PROJECT. THE SUPERINTENDENT SHALL BE REACHABLE BY PHONE DURING NORMAL BUSINESS HOURS. ONCE ASSIGNED, THE SUPERINTENDENT SHALL NOT BE REMOVED OR REPLACED WITHOUT WRITTEN APPROVAL FROM OWNER & ARCHITECT, UNLESS THE SUPERINTENDENT IS DETERMINED UNFIT TO PERFORM THE WORK.											
4. THE SUPERINTENDENT WILL BE REQUIRED TO PROVIDE PHOTOGRAPHS (VIA EMAIL USING A DIGITAL CAMERA) TO THE OWNER & ARCHITECT EACH FRIDAY ON NINN CST, SHOWING THE PROGRESS OF CONSTRUCTION. THE GENERAL CONTRACTOR IS ENCOURAGED TO TAKE PHOTOS SEVERAL TIMES EACH WEEK TO HELP MAINTAIN PROOF OF CONSTRUCTION AND UNCOVERED CONDITIONS, RECORD CONDITION AND AMOUNTS OF VENDOR GOODS UPON RECEIPT, AND RECORD CONSTRUCTION THAT VARIES FROM THE COS (AS PERTAINING TO THE PARTS OF THE AS-BUILTS). ALL PHOTOS WILL HAVE A DATE STAMP.											
G. INSPECTIONS/OBSERVATIONS											
1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OVERSEE CONSTRUCTION OF THE PROJECT, CONTINUALLY INSPECTING THE WORK, MATERIALS, AND WORKMANSHIP PROVIDED BY ALL OF THE TRADESMEN, SUBCONTRACTORS, AND VENDORS. THE CONTRACTOR IS RESPONSIBLE IN QUALITY OF CONSTRUCTION ONCE IT IS PROVIDED IF THE CONTRACTOR ENFORCES HIGH STANDARDS OF ACCEPTABILITY. THE GENERAL CONTRACTOR CAN NOT DELEGATE HIS RESPONSIBILITY TO THE SUBCONTRACTORS, BUT MUST CONTINUALLY MONITOR THE WORK OF EACH TRADE.											
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE AND SCHEDULE ALL AGENCIES HAVING JURISDICTION (AHJ) IN ORDER TO OBTAIN THE CERTIFICATE OF OCCUPANCY (CERTIFICATE OF COMPLETION). PRIOR TO THE DATE OF THE INSPECTION, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR THE INSPECTION. IF CONSTRUCTION COMPLIES WITH THE AGENCY REQUIREMENTS, SCHEDULED INSPECTIONS WITH AGENCY REPRESENTATIVES WHEN THE PROJECT IS NOT COMPLETE MUST BE AVOIDED. COPIES OF FINAL INSPECTIONS MUST BE PROVIDED TO THE OWNER AND SUBCONTRACTORS AS THEY ARE AVAILABLE.											
3. FOR THE INSPECTION, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SUBSTANTIAL COMPLETION INSPECTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT HIS OWN PRE-SUBSTANTIAL COMPLETION INSPECTION OF THE CONSTRUCTION FOR QUALITY OF CONSTRUCTION AND COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.											
4. ALL FOLLOWING PEOPLE SHOULD BE IN ATTENDANCE FOR THE SUBSTANTIAL COMPLETION INSPECTION:											
A. GENERAL CONTRACTOR											
B. GENERAL CONTRACTOR SUPERINTENDENT											
C. MECHANICAL CONTRACTOR											
D. ELECTRICAL CONTRACTOR											
E. PLUMBING CONTRACTOR											
F. PAINTING CONTRACTOR											
H. RECORD - CLOSE-OUT DOCUMENTS											
1. THE OWNER REQUIRES THE GENERAL CONTRACTOR AND SUBCONTRACTORS TO MAINTAIN AN ACCURATE, CURRENT AND UP-TO-DATE SET OF DRAWINGS AND CONSTRUCTION DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THIS SET OF DRAWINGS AND DOCUMENTS. THE AS-BUILTS MUST BE MAINTAINED ON-SITE IN THE GENERAL CONTRACTOR'S OFFICE AND WILL NOT BE USED FOR ANY OTHER PURPOSE SINCE THE OWNER WILL OWN AND OPERATE THE FACILITY. IT IS IMPERATIVE THAT ALL PARTIES MAINTAIN ACCURATE INFORMATION REGARDING THE AS-BUILTS.											
2. ALL DEVIATIONS FROM THE CONTRACT SET OF DRAWINGS MUST BE NOTED ON THE AS-BUILTS IN RED WITH CLOUDS FOR CLEAR IDENTIFICATION. THE OWNER WILL REVIEW THE AS-BUILTS FOR ACCURACY AND COMPLETENESS MONTHLY. DURING THE PAYMENT APPLICATION REVIEW PROCESS, FAILURE TO POST CHANGES TO THE PROJECT ON THE AS-BUILTS IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENFORCE THE TIMELY POSTING OF AS-BUILTS CHANGES WITH THE SUBCONTRACTORS.											
I. FINAL CLOSE-OUT OF THE PROJECT											
1. WITHIN THIRTY (30) CALENDAR DAYS AFTER THE FINAL PROJECT SUBSTANTIAL COMPLETION, THE GENERAL CONTRACTOR SHALL COMPLETE ALL CLOSE-OUT DOCUMENTS AND SUBMIT THEM TO THE OWNER FOR REVIEW. IF THE CONTRACTOR FAILS TO COMPLETE ITS REQUIREMENTS WITHIN THIS TIMELINE NOTED ABOVE THE CONTRACTOR MAY BE SUBJECT TO ADDITIONAL ADMINISTRATION FEES.											
J. CLOSE-OUT DOCUMENTS											
1. THE CATEGORIES LISTED BELOW SHOULD BE SUBMITTED AT THE SAME TIME:											
A. A DWELL WITH ALL PHOTOS TAKEN DURING CONSTRUCTION											
B. AS-BUILT DRAWINGS: ONE HARD COPY TO REMAIN ON SITE AND IN PLATE TUBE; ONE ELECTRONIC COPY TO BE SENT WITH CLOSE-OUT PAPERWORK.											
C. MATERIALS SELECTION DATA: PROVIDE ALL APPROVED SUBMITTALS											
D. OPERATOR'S INSTRUCTION MANUALS (OIM): PROVIDE OIM MANUALS BOXED AND BOUND. THIS ITEM IS OF SIGNIFICANT IMPORTANCE TO MSI FUTURE MAINTENANCE ACTIVITIES.											
E. ALL HVAC TEST AND BALANCE REPORTS											
F. RELEASE OF LIEN (AIA FORM 706) PAYMENT OF DEBT (AIA FORM 706).											
G. AIA FORM 706 RELEASE OF LIEN (AIA FORM 706)											
H. ALL INFORMATION INCLUDED IN THIS CATEGORY WILL BE FURNISHED IN ONE (1) COPY AND BOUND IN A STURDY THREE-RING BINDER WITH A LABEL ON THE OUTSIDE READING "GENERAL CLOSE-OUT DOCUMENTS" TO INCLUDE AN INDEX OF THE CONTENTS. ALL AIA DOCUMENTS WILL BE ORIGINAL, WITH RED LETTERING ON THE BOTTOM OF THE DOCUMENT. THE CONTRACTOR WILL NOT USE ANY AIA DOCUMENTS THAT ARE NOT ORIGINAL.											
I. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR WILL HAVE SEPARATE TABS IDENTIFYING EACH BY NAME. THE GENERAL CONTRACTOR WILL LIST EACH SUBCONTRACTOR ALPHABETICALLY AND WILL CHECK TO INSURE THAT A RELEASE OF LIEN - AIA FORM G706A AND A PAYMENT OF DEBT-AIA FORM G706 IS INCLUDED FOR THE CONTRACTOR AND EACH SUBCONTRACTOR. THE PAYMENT OF DEBT-AIA FORM G706 IS THE PAYMENT OF DEBT-AIA FORM G706 IN ADDITION TO THE RELEASE OF LIEN TAB. THE PAYMENT OF DEBT-AIA FORM G706 IS THE PAYMENT OF DEBT-AIA FORM G706 IN ADDITION TO THE RELEASE OF LIEN TAB.											
J. A LIST OF ALL BUSINESSES ADDRESSES, PHONE NUMBERS AND EMAIL ADDRESSES FOR THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR											
K. A COPY OF THE CONTRACTOR'S COMPLETION PUNCH LIST INDICATING ACTION TAKEN ON EACH ITEM.											
L. A COPY OF THE CONTRACTOR'S AFFIDAVITS WHICH SHALL BE INCLUDED FOR ANY EQUIPMENT, MATERIALS OR SYSTEMS, COMBINED WITH ALL OF THE ABOVE INFORMATION AND PLACED BEHIND THE TAB OF THE CONTRACTOR THAT ISSUED IT.											
DIVISION 4 - MASONRY											
04 0500 - MASONRY RESTORATION & TUCKPOINTING											
A. REFERENCES											
1. AMERICAN CONCRETE INSTITUTE (ACI): 2. AMERICAN STONE INSTITUTION FOR MASONRY STRUCTURES.											
2. ASTM C 144 - STANDARD SPECIFICATION FOR AGGREGATE FOR MASONRY MORTAR.											
3. ASTM C 150 - STANDARD SPECIFICATION FOR PORTLAND CEMENT.											
4. ASTM C 207 - STANDARD SPECIFICATION FOR HYDRAULIC CEMENT FOR MASONRY PURPOSES.											
5. ASTM C 210 - STANDARD SPECIFICATION FOR MORTAR FOR CONCRETE.											
6. ASTM C 270 - STANDARD SPECIFICATION FOR MORTAR FOR UNIT MASONRY.											
7. ASTM C 295 - STANDARD SPECIFICATION FOR BLENDED HYDRAULIC CEMENTS.											
8. ASTM C 780 - STANDARD TEST METHOD FOR PRECONSTRUCTION AND CONSTRUCTION EVALUATION OF MORTARS FOR UNIT MASONRY.											
9. ASTM C 679 - STANDARD SPECIFICATION FOR PIGMENTS FOR INTEGRAL CONCRETE.											
10. ASTM C 103 - STANDARD PRACTICE FOR ACCREDITATION OF TESTING LABORATORIES FOR UNIT MASONRY.											
11. ASTM C 157 - STANDARD PERFORMANCE SPECIFICATION FOR HYDRAULIC CEMENT.											
12. ASTM C 160 - STANDARD PRACTICE FOR DETERMINATION OF STRENGTH OF MASONRY PRISMS.											
13. ASTM C 174 - STANDARD SPECIFICATION FOR PRE-BLENDED DRY MORTAR MIX FOR UNIT MASONRY.											
14. ASTM C 514 - STANDARD TEST METHOD FOR WATER PENETRATION AND LEAKAGE THROUGH MASONRY.											
15. INTERNATIONAL MASONRY INDUSTRY ALL-WEATHER COUNCIL (IMAC): RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR MASONRY CONSTRUCTION.											
16. IMAC - INTERNATIONAL MASONRY INDUSTRY ALL-WEATHER COUNCIL (IMAC): RECOMMENDED PRACTICES AND GUIDE SPECIFICATIONS FOR HOT WEATHER MASONRY CONSTRUCTION.											
17. THE BRICK INDUSTRY ASSOCIATION (BIA): 18. BIA TECHNICAL NOTE 20 - CLEANING BRICK.											
B. SUBMITTALS											
1. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA.											
2. SUBMITTALS: SUBMITTALS OF TEST RESULTS PREPARED BY A QUALIFIED INDEPENDENT TESTING LABORATORY.											
C. QUALITY ASSURANCE											
1. MANUFACTURER QUALIFICATIONS: FIRM SPECIALIZING IN MANUFACTURE OF MASONRY INSTALLATION MATERIALS, INCLUDING MORTARS, WITH MINIMUM 10 YEARS EXPERIENCE.											
2. QUALITY ASSURANCE: CONTROL TESTING, TEST REPORTS PREPARED BY A QUALIFIED INDEPENDENT LABORATORY INDICATING TESTS AND RESULTS.											
3. CONSTRUCTION MEETING: AT LEAST ONE WEEKS PRIOR TO COMMENCING MASONRY WORK CONDUCT A MEETING AT THE PROJECT SITE TO DISCUSS CONTRACT REQUIREMENTS AND JOB CONDITIONS. REQUIRE THE ATTENDANCE OF MASONRY CONTRACTOR, AND INSTALLERS OF RELATED MATERIALS. NOTIFY ARCHITECT IN ADVANCE OF MEETING, REVIEW DETAILED AND SEQUENCE OF WORK TO BE PERFORMED.											
4. PROTECTION: PROTECT EXISTING SURFACES AND MATERIALS THAT WILL BE MANUFACTURED AND STORED OFF THE GROUND, UNDER COVER AND SHALL BE KEPT DRY IN ACCORDANCE WITH ASTM C174.											
D. PROJECT CONDITIONS											
1. MAINTAIN ENVIRONMENTAL CONDITIONS AND PROTECT WORK DURING AND AFTER INSTALLATION TO COMPLY WITH REFERENCED STANDARDS AND MANUFACTURER'S PRINTED RECOMMENDATIONS.											
2. DO NOT BUILD OR APPLY MORTAR PRODUCTS ON FROST SUBSTRATES.											
3. REMOVE AND REPAIR MORTAR DAMAGED BY FROST OR BY FREEZING CONDITIONS.											
4. REMOVE AND REPAIR MORTAR HEATERS TO EXTERIOR TO PREVENT DAMAGE TO MASONRY WORK FROM CARBON DIOXIDE BUILD-UP.											
E. PRODUCTS											
1. BASIS OF DESIGN: SPEC MIX, INC. WEB: WWW.SPECMIX.COM WWW.SPECMX.COM											
2. REQUESTS FOR SUBSTITUTIONS WILL BE CONSIDERED IN ACCORDANCE WITH PROVISIONS OF SUBSTITUTION PROCEDURES.											
3. OBTAIN PRODUCTS FROM A SINGLE MANUFACTURER.											
4. DESIGN AND PERFORMANCE REQUIREMENTS: PROVIDE MORTAR MIXES THAT HAVE BEEN SELECTED, MANUFACTURED, MIXED AND INSTALLED TO COMPLY WITH THE FOLLOWING:											
A. ASTM C 270.											
B. ASTM C 174.											
C. TUCKPOINT MORTAR: SPEC MIX TUCKPOINT MORTAR, APPLICABLE STANDARDS: ASTM C 144, ASTM C 150, ASTM C 207, ASTM C 270 FOR TUCKPOINT MORTAR, ASTM C 595, ASTM C 780, ASTM C 103, ASTM C 157, ASTM C 1314, ASTM C 158, ASTM C 174, IMAC.											
F. EXECUTION											
EXAMINE SURFACES TO RECEIVE MASONRY WORK AND CONDITIONS UNDER WHICH MASONRY WILL BE INSTALLED. DO NOT PROCEED WITH MASONRY UNTIL SURFACES AND CONDITIONS COMPLY WITH REQUIREMENTS INDICATED IN REFERENCED MASONRY INSTALLATION STANDARD AND MANUFACTURER'S PRINTED INSTRUCTIONS.											
1. REMOVAL OF EXISTING MORTAR.											
A. REMOVAL OF EXISTING MORTAR: CUT OUT EXISTING MORTAR JOINTS (BOTH BED AND HEAD JOINTS) AND REMOVE BY USE OF A TOOTHPICK, RAZOR BLADE OR A SPECIAL PONTER'S GRINDER, TO A UNIFORM DEPTH OF 3/4-INCH (19MM) OR UP TO A MAXIMUM OF 1/2-INCH.											
B. TAKE CARE TO NOT DAMAGE EDGES OF EXISTING MASONRY UNITS TO REMAIN.											
C. REMOVE DUST AND DEBRIS FROM THE JOINTS BY BRUSHING, BLOWING WITH AIR OR RINSING WITH WATER. DO NOT RINSE WHEN TEMPERATURE IS BELOW FREEZING.											
D. REPLACE REMOVED UNITS WITH SALVAGED OR NEW UNITS THAT MATCH EXISTING SIZE AND TEXTURE. DO NOT USE BROKEN UNITS UNLESS THEY CAN BE CUT TO USE.											
E. INSTALL: REPLACE UNITS INTO BONDED AND COUPLING PATTERN OF EXISTING UNITS. IF CUTTING IS REQUIRED, USE A RAZOR BLADE OR A TOOTHPICK TO PREPARE THE MASONRY WITH CLEAN, SHARP UNCHIPPED EDGES. UNITS MUST BE TOOTHED IN OR COUPLING UNITS SHALL MATCH SURROUNDING IN PLACE WORK.											
F. MAINTAIN JOINT WIDTH FOR REPLACEMENT UNITS TO MATCH EXISTING JOINTS.											
G. REPLACE REMOVED UNITS WITH COMPLETELY FILLED BED, HEAD, AND COUPLING JOINTS. BUTTER ENDS WITH A SOLID CONCRETE MORTAR TO FILL HEAD JOINTS AND SHOVE INTO PLACE.											
H. CLEAN: CLEAN UNITS WITH A SOFT BRUSH.											
I. AS RECOMMENDED BY MANUFACTURER.											
J. RETEMPER MORTAR AS RECOMMENDED BY MANUFACTURER											
K. OBTAIN: TUCKPOINT MORTAR.											
L. INSTALL MORTAR IN ACCORDANCE WITH ACI/AISC-53-1:											
M. TUCKPOINT MORTAR: SUBMITTALS: SUBMITTALS TO BE TUCK POINTED, PRIOR TO APPLICATION OF POINTING MORTAR, ALLOW MASONRY UNITS TO ABSORB SURFACE WATER.											
N. TIGHTLY PACK MORTAR INTO JOINTS IN THIN LAYERS, APPROXIMATELY 1/4-INCH (6 MM) THICK MAXIMUM.											
O. ALLOW MORTAR TO SET: ALLOW MORTAR TO SET FOR 24 HOURS.											
P. PACK FINAL LAYER FLUSH WITH SURFACES OF MASONRY UNITS. WHEN MORTAR BECOMES THUMPRINT HARD*, TOOTHPICK IT OUT.											
Q. HARSH CRACKING WITHIN THE MORTAR OR MORTAR SEPARATION AT EDGE OF A JOINT IS UNACCEPTABLE. COMPLETELY REMOVE SUCH MORTAR AND REPOINT.											
R. TOOL JOINTS IN PATCH WORK WITH A JOINTING TOOL TO MATCH THE EXISTING SURROUNDING JOINTS.											
S. CLEAN: CLEAN UNITS WITH A SOFT BRUSH.											
T. OIL: OIL UNITS WITH A SOFT BRUSH.											
U. ASSEMBLY: ASSEMBLY OF UNITS TO BE TUCK POINTED.											
V. CLEAN: CLEAN UNITS WITH A SOFT BRUSH.											
W. TUCKPOINT MORTAR: SUBMITTALS: SUBMITTALS TO BE TUCK POINTED.											
X. TUCKPOINT MORTAR: SUBMITTALS: SUBMITTALS TO BE TUCK POINTED.											
Y. TUCKPOINT MORTAR: SUBMITTALS: SUBMITTALS TO BE TUCK POINTED.											
Z. TUCKPOINT MORTAR: SUBMITTALS: SUBMITTALS TO BE TUCK POINTED.											
DIVISION 5 - METALS											
05 5213 - PIPE AND TUBE RAILINGS											
A. SUBMITTALS											
1. PRODUCT DATA AND SHOP DRAWINGS WITH PLANS ELEVATIONS AND SECTION INDICATING MEMBER SIZES AND LAYOUT, VERTICAL AND HORIZONTAL DIMENSIONS, EDGE CONDITIONS, AND CONNECTION DETAILS. INCLUDES DETAILS OF DEVIATIONS, TOLERANCES, WEIGHTS, LOADS, REQUIRED CLEARANCES, METHOD OF FIELD ASSEMBLY, COMPONENTS, AND LOCATION AND SIZE OF EACH FIELD CONNECTION. SAMPLES FOR INITIAL SELECTION.											
2. DELEGATED DESIGN SUBMITTAL: FOR HANDRAIL AND GUARDRAIL SYSTEMS, INCLUDING DATA AND DESIGN AND ANALYSIS FOR THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.											
B. DESIGN: METAL TUBE RAILINGS SHALL BE DESIGNED BY FABRICATOR TO SUPPORT CODE-REQUIRED LOADING AND TO MATCH THE CONFIGURATIONS INDICATED IN THE CONSTRUCTION DOCUMENTS. SEE DRAWINGS FOR REQUIRED RAILING ELEVATIONS.											
C. FIELD CONDITIONS											
1. FIELD MEASUREMENTS: VERIFY ACTUAL LOCATIONS OF WALLS AND OTHER CONSTRUCTION CONTIGUOUS WITH METAL FABRICATIONS BY FIELD MEASUREMENTS BEFORE FABRICATION.											
D. PERFORMANCE REQUIREMENTS											
1. A. DELEGATED DESIGN: ENGAGE A QUALIFIED PROFESSIONAL ENGINEER TO DESIGN RAILINGS, INCLUDING ATTACHMENT TO BUILDING CONSTRUCTION.											
B. STRUCTURAL PERFORMANCE: RAILINGS, INCLUDING ATTACHMENT TO BUILDING CONSTRUCTION, SHALL SUPPORT THE REQUIREMENTS OF THE APPROPRIATE STANDARDS.											
2. HANDRAILS AND TOP RAILS OF GUARDS:											
A. UNIFORM LOAD OF 50 LBF FT (0.73 KNM) APPLIED IN ANY DIRECTION.											
B. CONCENTRATED LOAD OF 200 LBF (0.89 KN) APPLIED IN ANY DIRECTION.											
C. UNIFORM AND CONCENTRATED LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY.											
E. FASTENERS											
1. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA.											
2. DESIGN: REQUIRED TO PRODUCE CONNECTORS SUITABLE FOR ANCHORING RAILINGS TO OTHER TYPES OF CONSTRUCTION.											
3. CONSTRUCTION: CONSTRUCTION OF RAILINGS.											
4. QUALITY ASSURANCE											
1. MANUFACTURER QUALIFICATIONS											

SPECIFICATIONS - PRODUCT & INSTALLATION GENERAL REQUIREMENTS

08100 - MIRRORS
A. SUBMITTALS: FOR EACH TYPE OF PRODUCT INDICATED, THE CONTRACTOR SHALL PREPARE, AND SUBMIT TO THE ARCHITECT FOR APPROVAL, COMPLETE SHOP DRAWINGS, INCLUDE MIRROR ELEVATIONS, EDGE DETAILS, MIRROR HARDWARE, AND ATTACHMENTS TO OTHER WORK. WARRANTY: SAMPLE OF SPECIAL WARRANTY.

B. QUALITY ASSURANCE: VINYL CASEMENT WINDOWS, SIZE OF DESIGN: MI 500, VINYL SINGLE-HUNG WINDOWS, 1. GLAZING: PUBLICATIONS: COMPLY WITH GANA'S "GLAZING AND MIRRORS", HANDLE WITH EXTREME CARE, TIPS FOR THE PROFESSIONAL ON THE CARE AND HANDLING OF MIRRORS.

2. SAFETY: DO NOT LEAVE MIRRORS UNATTACHED TO OTHER WORK. PROVIDE PRODUCTS COMPLYING WITH TESTING REQUIREMENTS IN 16 CFR 1201 FOR CATEGORY I MATERIALS.

3. PRECONSTRUCTION: MIRROR BASIC COMPATIBILITY TEST. SUBMIT MIRROR BASIC PRODUCTS TO MIRROR MANUFACTURER FOR TESTING TO DETERMINE COMPATIBILITY OF MASIC WITH MIRROR BACKING AND SUBSTRATES ON WHICH MIRRORS ARE INSTALLED.

C. WARRANTY: SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH MIRROR MANUFACTURER AGREES TO REPLACE MIRRORS THAT DETERIORATE DURING THE WARRANTY PERIOD. DETERIORATION OF MIRRORS IS NOT COVERED BY MANUFACTURER'S WARRANTY, UNLESS THAT IS NOT ATTRIBUTED TO MIRROR BREAKAGE OR TO MANUFACTURING AND CLEANING MIRRORS CONTRARY TO MANUFACTURER'S WRITTEN INSTRUCTIONS. DEFECTS INCLUDE: DISCOLORATION, BLACK SPOTS, AND CLOUDING OF THE SILVER FILM.

1. WARRANTY PERIOD: FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

D. BASIS OF DESIGN: FLAT GLASS MIRRORS.

1. GLASS MIRRORS, GENERAL: ASTM C 1503, MANUFACTURED USING COPPER FREE, LOW LEAD MIRROR COATING PROCESS.

2. DOUBLE GLASS: MIRROR GLAZING QUALITY, ULTRACLEAR (LOW IRON) FLOAT GLASS WITH A MINIMUM 91 PERCENT VISIBLE LIGHT TRANSMISSION, NOMINAL THICKNESS: 1/4 INCH.

3. TEMPERED CLEAR GLASS: MIRROR GLAZING QUALITY, FOR BLEMISH REQUIREMENTS, AND COMPLY WITH ASTM C 1048 FOR KIND FT, CONDITION A, TEMPERED FLOAT GLASS BEFORE SILVER COATING IS APPLIED, NOMINAL THICKNESS: 1/4 INCH.

E. MIRROR HARDWARE: TOP AND BOTTOM ALUMINUM J CHANNELS: ALUMINUM EXTRUSIONS WITH A RETURN DEEP ENOUGH TO PRODUCE A GLAZING CHANNEL TO ACCOMMODATE MIRRORS OF THICKNESS INDICATED.

LENGHTS CUT TO FIT TO COVER BOTTOM AND TOP EDGES OF EACH MIRROR IN A SINGLE PIECE. FINISH: CLEAR BRIGHT ANODIZED.

1. TOP AND BOTTOM MIRROR MOUNTING CLIPS: #277 MIRROR CLIPS AS MANUFACTURED BY KNAPE & VOGT OR APPROVED EQUAL.

2. FASTENERS: FABRICATED FROM BASIC METAL AND ALLOY AS FASTENED METAL AND MATCHING IT IN FINISHED COLOR AND TEXTURE WHERE FASTENERS ARE EXPRESSED.

F. INSTALLATION: GENERAL: EXAMINE SUBSTRATES OVER WHICH MIRRORS ARE TO BE MOUNTED, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH INSTALLATION TOLERANCES, SUBSTRATE PREPARATION, AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK.

A. VERIFY COMPATIBILITY WITH AND SUITABILITY OF SUBSTRATES, INCLUDING COMPATIBILITY OF MIRROR MASIC WITH EXISTING FINISHES OR PRIMERS.

B. PROVIDE MIRROR MASIC ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED AND SURFACES ARE DRY.

1. INSTALL MIRRORS TO COMPLY WITH MIRROR MANUFACTURER'S WRITTEN INSTRUCTIONS AND WITH REFERENCED GANA PUBLICATIONS. MOUNT MIRRORS ACCURATELY IN PLACE IN A MANNER THAT AVOIDS DISTORTING REFLECTED IMAGES.

2. INSTALL WALL MOUNTED ANNELED GLASS MIRRORS IN THE APARTMENT UNITS WITH MIRROR CLIPS. ATTACH MIRROR HARDWARE SECURELY TO MOUNTING SURFACES WITH MECHANICAL FASTENERS INSTALLED IN 3. ANDREW'S HANGERS AS APPLICABLE. INSTALL FASTENERS SO HEADS DO NOT POSE POINT LOADS ON BACKS OF MIRRORS.

4. PROTECT MIRRORS FROM BREAKAGE AND CONTAMINATING SUBSTANCES RESULTING FROM CONSTRUCTION OPERATIONS.

5. MAINTAIN ENVIRONMENTAL CONDITIONS THAT WILL PREVENT MIRRORS FROM BEING EXPOSED TO MOISTURE FROM CONDENSATION OR OTHER SOURCES FOR CONTINUOUS PERIODS OF TIME.

6. WASH EXPOSED SURFACE OF MIRRORS NOT MORE THAN FOUR DAYS BEFORE SCHEDULED FOR INSPECTIONS THAT ESTABLISH DATE OF SUBSTANTIAL COMPLETION. WASH MIRRORS AS RECOMMENDED IN WRITING BY MIRROR MANUFACTURER.

DIVISION 9 - FINISHES

09116 - GYPSUM BOARD ASSEMBLIES

A. STEEL FRAMING: PROVIDE COMPLY WITH ASTM C754 IN DEPTHS AND GAGES AS INDICATED IN THE CONSTRUCTION DRAWINGS AND AS FOLLOWS:

1. STEEL SHEET COMPONENTS: COMPLY WITH ASTM C445 WITH MANUFACTURER'S STANDARD CORROSION-RESISTANT ZINC COATING.

2. TIE WIRE: ASTM A614/A614M, CLASS 2 ZINC COATING, SOFT TEMPER, .0625" DIAMETER OR DOLGAR 1000, 1000 FT. LENGTH.

3. WIRE HANGERS: ASTM A614/A614M, CLASS 2 ZINC COATING, SOFT TEMPER, .0162" DIAMETER.

B. PANELS: PRODUCTS PROVIDED IN MAXIMUM SIZE AND TYPE LOCATED IN THE CONSTRUCTION DRAWINGS IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS AND AS FOLLOWS:

1. GYPSUM WALLBOARD: ASTM C 36, TYPE X WITH TAPERED EDGES, SAG-RESISTANT TYPE FOR CEILING SURFACES.

2. WATER-RESISTANT GYPSUM BACKING BOARD: ASTM C 69, TYPE X' ON ALL TOILET ROOM AND SHOWER ROOM WALLS, BEHIND ALL PLUMBING FIXTURES, AND AS INDICATED.

C. ACCESSORIES:

1. TRIM: ASTM C 117, FORMED FROM GALVANIZED OR ALUMINUM COATED STEEL SHEET, ROLLED DOWN AND FLAT, AS INDICATED.

2. OUTSIDE CORNERS: PROVIDE CORNER BEAD UNLESS NOTED OTHERWISE.

3. EXPOSED PANEL EDGES: PROVIDE L-C-BEAD (L-BEAD) UNLESS NOTED OTHERWISE, USE TEAR-AWAY BEAD WHERE GYPSUM BD. MEETS WINDOW FRAMES OR CEILING GRID.

4. CONCEALED JOINTS: PROVIDE CONCEALED JOINTS OR APPROXIMATELY 30'-0" MAX. CONTACT ARCHITECT FOR LOCATIONS IF NOT INDICATED.

5. SOUND-ATTENUATION BLANKETS: ASTM C 665, TYPE I (UNFACTED)

6. ACOUSTICAL SEALANT: COMPLY WITH ASTM C 834, NONSAG, PANTABLE, NONSTAINING LATEX.

D. INSTALLATION:

1. FRAMING: COMPLY WITH ASTM C 754 AND ASTM C 840 AND WITH U.S. GYPSUM'S "GYPSUM CONSTRUCTION HANDBOOK" ISOLATE FRAMING FROM BUILDING STRUCTURE TO PREVENT PROBLEMS OF LOOSENING OF JOINTS. PROVIDE BRACINGS AS NECESSARY TO SUPPORT JOINTS OTHER THAN INDICATED OR NOT.

2. GYPSUM PANELS AND FINISH: COMPLY WITH ASTM C 840 AND GA-216. ISOLATE GYPSUM BOARD ASSEMBLIES FROM ABUTTING STRUCTURAL AND MASONRY SURFACES, AND ISOLATE AS FOLLOWS:

A. LEVEL 1: PROVIDE 1/4" THICK JOINTS TO CEILING SURFACES. A HIGHER LEVEL IS INDICATED OR REQUIRED FOR FIRE-RESISTANT RATED ASSEMBLY V.

B. LEVEL 2: EMBED TAPE AND APPLY SEPARATE FIRST COAT OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES AND SAND SMOOTH AFTER EACH COAT; AT ALL WALLS RECEIVING SEMI-GLOSS OR GLOSS SHEEN PAINT, AND ALL GYPSUM BOARD CEILINGS)

C. LEVEL 3: EMBED TAPE, AND APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES AND SAND SMOOTH AFTER EACH COAT; AT ALL WALLS RECEIVING FLAT EGGSHELL OR SATIN SHEEN PAINT OR VARNISH.

D. LEVEL 5: EMBED TAPE, APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES, AND APPLY SHIM SKIM COAT OF JOINT COMPOUND OVER ENTIRE SURFACE AND SAND SMOOTH AFTER EACH COAT; AT ALL WALLS RECEIVING SEMI-GLOSS OR GLOSS SHEEN PAINT, AND ALL GYPSUM BOARD CEILINGS)

E. LEVEL 6: EMBED TAPE, AND APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES, AND APPLY SHIM SKIM COAT OF JOINT COMPOUND OVER ENTIRE SURFACE AND SAND SMOOTH AFTER EACH COAT; AT ALL WALLS RECEIVING SEMI-GLOSS OR GLOSS SHEEN PAINT, AND ALL GYPSUM BOARD CEILINGS)

F. INSTALLATION:

1. FRAMING: COMPLY WITH CRIS' "CARPET INSTALLATION STANDARD" AND WITH CARPET MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR PREPARING SUBSTRATES.

2. USE TROWELABLE LEVELING AND PATCHING COMPOUNDS, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, TO FILL CRACKS, HOLES, DEPRESSIONS, AND PROTRUSIONS IN SUBSTRATES. FILL OR LEVEL GROUT, AND PREPARE SURFACES FOR CARPET. USE GROUTS THAT ARE NOT WATER-SOLUBLE, AND NOT MORE THAN 1/4" THICK.

3. UNLESS MORE STRINGENT REQUIREMENTS ARE REQUIRED BY MANUFACTURER'S WRITTEN INSTRUCTIONS, BROOM AND VACUUM CLEAN SUBSTRATES TO BE COVERED IMMEDIATELY BEFORE INSTALLING CARPET.

4. LINT REMOVAL: USE TROWELABLE LEVELING AND PATCHING COMPOUNDS, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, TO FILL CRACKS, HOLES, DEPRESSIONS, AND PROTRUSIONS IN SUBSTRATES. FILL OR LEVEL GROUT, AND PREPARE SURFACES FOR CARPET. USE GROUTS THAT ARE NOT WATER-SOLUBLE, AND NOT MORE THAN 1/4" THICK.

5. PRODUCT: PROVIDE 1/4" THICK JOINTS TO CEILING SURFACES. A HIGHER LEVEL IS INDICATED OR REQUIRED FOR FIRE-RESISTANT RATED ASSEMBLY V.

6. PRODUCT: PROVIDE 1/4" THICK JOINTS TO CEILING SURFACES. A HIGHER LEVEL IS INDICATED OR REQUIRED FOR FIRE-RESISTANT RATED ASSEMBLY V.

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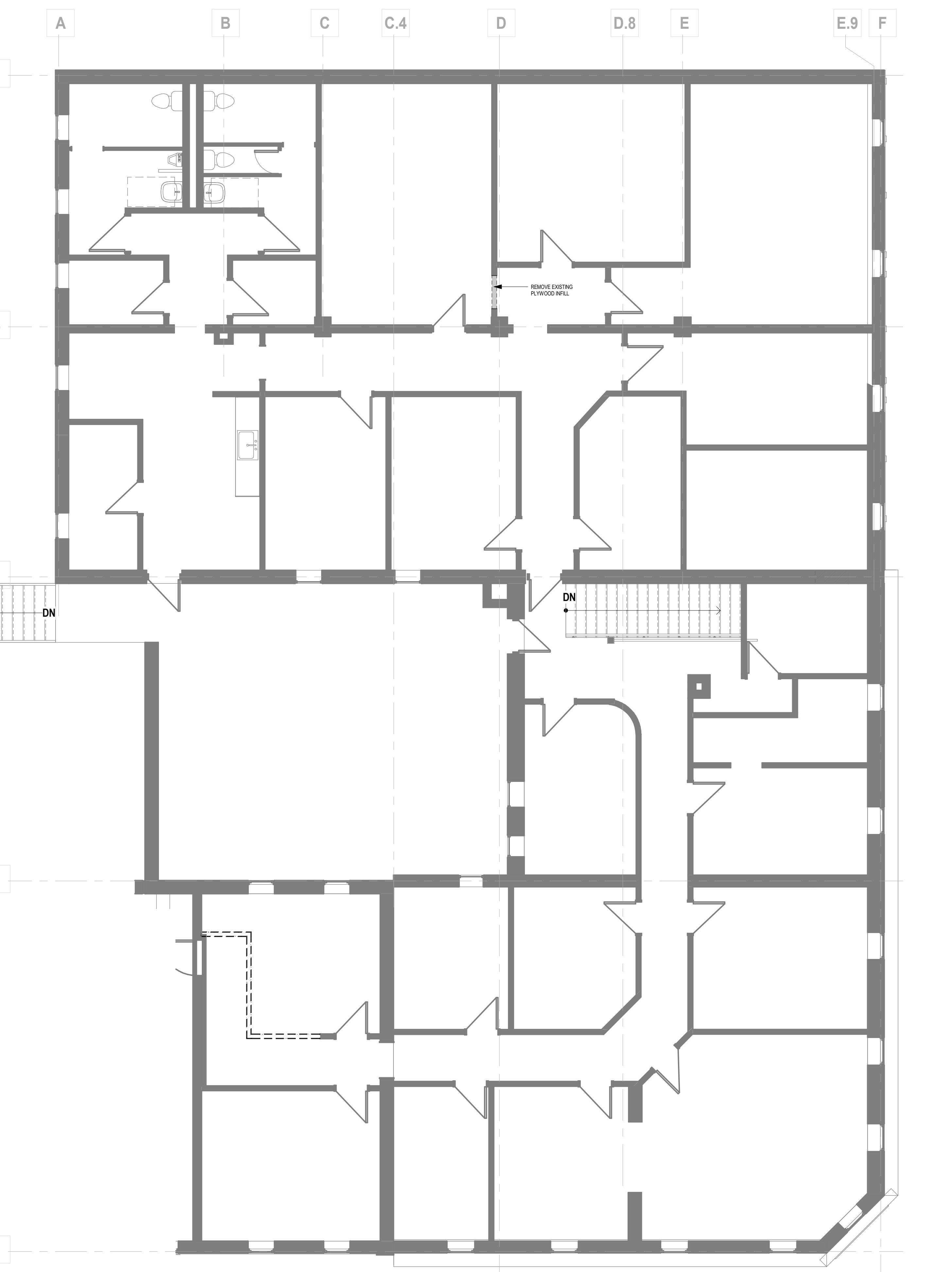
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42. PRODUCT: PROVIDE 1/4" THICK JOINTS TO CEILING SURFACES. A HIGHER LEVEL IS INDICATED OR REQUIRED

GEN. DEMO NOTES

1. CONTRACTOR TO VISIT PROJECT SITE AND BUILDING, PRIOR TO BID.
2. BUILDING AND SITE TO REMAIN SECURE DURING DEMOLITION AND CONSTRUCTION.
3. PROTECT ALL ITEMS TO REMAIN (WALLS, PLUMBING FIXTURES, PIPES, HVAC, COLUMNS, ETC).
4. CARE IS TO BE EXERCISED IN THE DEMOLITION OPERATIONS. EXISTING SURFACES TO REMAIN SHALL BE PROTECTED. ANY DAMAGE INCURRED AS A RESULT OF DEMOLITION IS THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BEAR THE COST OF REPAIRING SUCH DAMAGE.
5. ALL OPENINGS IN WALLS AND ROOFS RESULTING FROM EXISTING CONSTRUCTION REMOVAL SHALL BE SEALED WEATHER-TIGHT. ALL CONDITIONS SHALL BE LEFT SAFE AND HAZARD FREE.
6. CONTRACTOR TO REPAIR ANY AREAS DAMAGED DURING DEMOLITION.
7. CONTRACTOR TO COORDINATE DEMOLITION OPENINGS WITH NEW PLANS AND ELEVATIONS.
8. ALL MEP SYSTEMS TO BE REMOVED TO BE FULLY COORDINATED WITH EXISTING CONDITIONS. ALL SYSTEMS TO BE REMOVED COMPLETELY THAT ARE NOT BEING RE-UTILIZED.
9. PROTECT EXISTING CONDITIONS AND MAINTAIN WEATHER-TIGHTNESS FOR ALL OCCUPIED/UNOCCUPIED SPACES. DO NOT REMOVE ANY EXISTING ELEMENTS DURING THE ENTIRE DURATION THAT THE BUILDING IS EXPOSED TO THE ELEMENTS. PATCH/REPAIR/REPLACE AS REQUIRED.

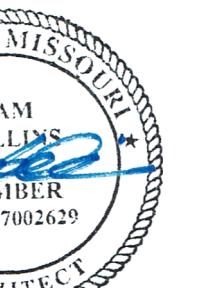


A6 2ND FLOOR DEMO PLAN
3/16" = 1'-0"

REECE NICHOLS TENANT IMPROVEMENTS

230 SW MAIN ST.
LEE'S SUMMIT, MO 64063

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PROFESSIONAL SEAL

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ISSUE DATE: 1 JUNE, 2022

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DEMO PLANS

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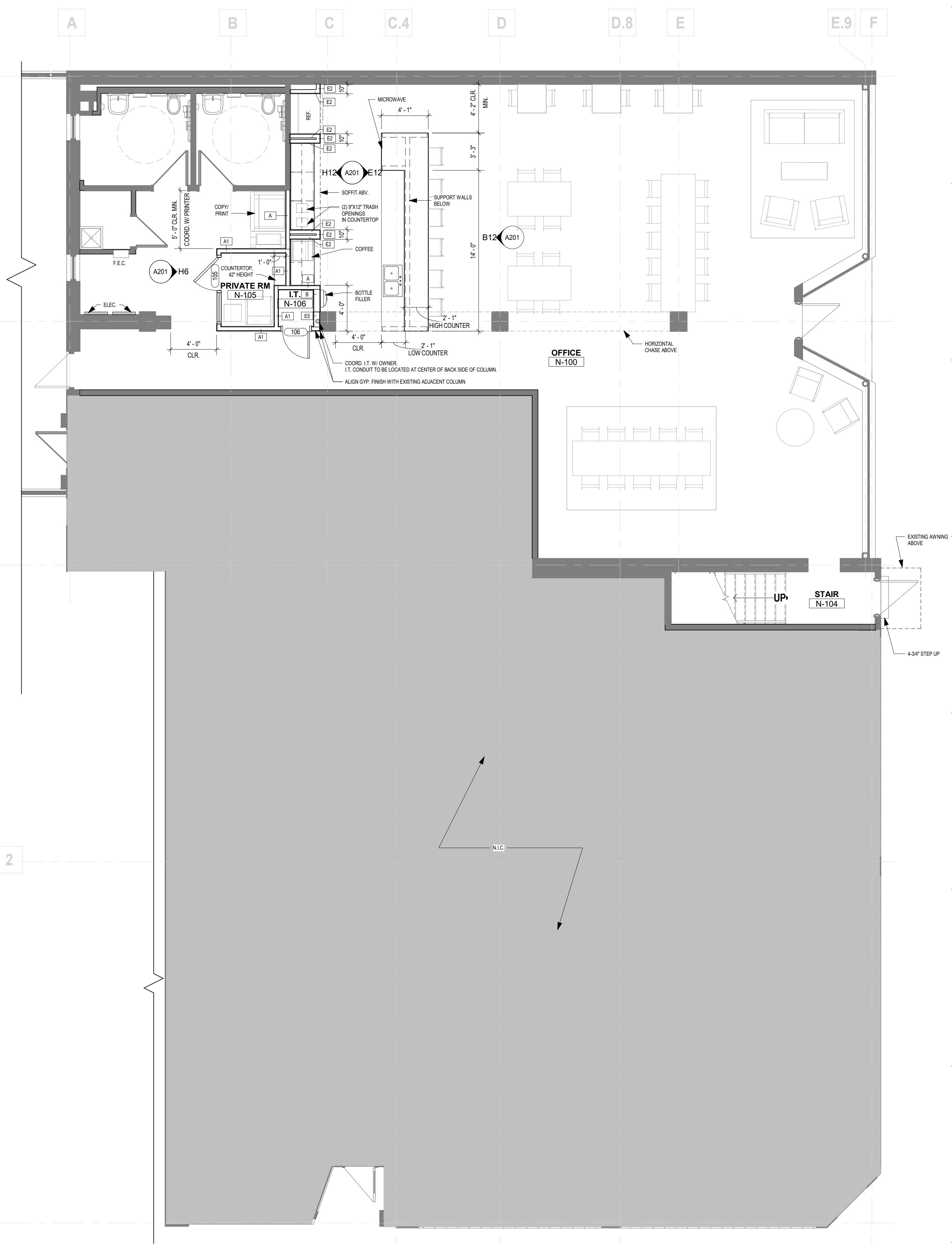
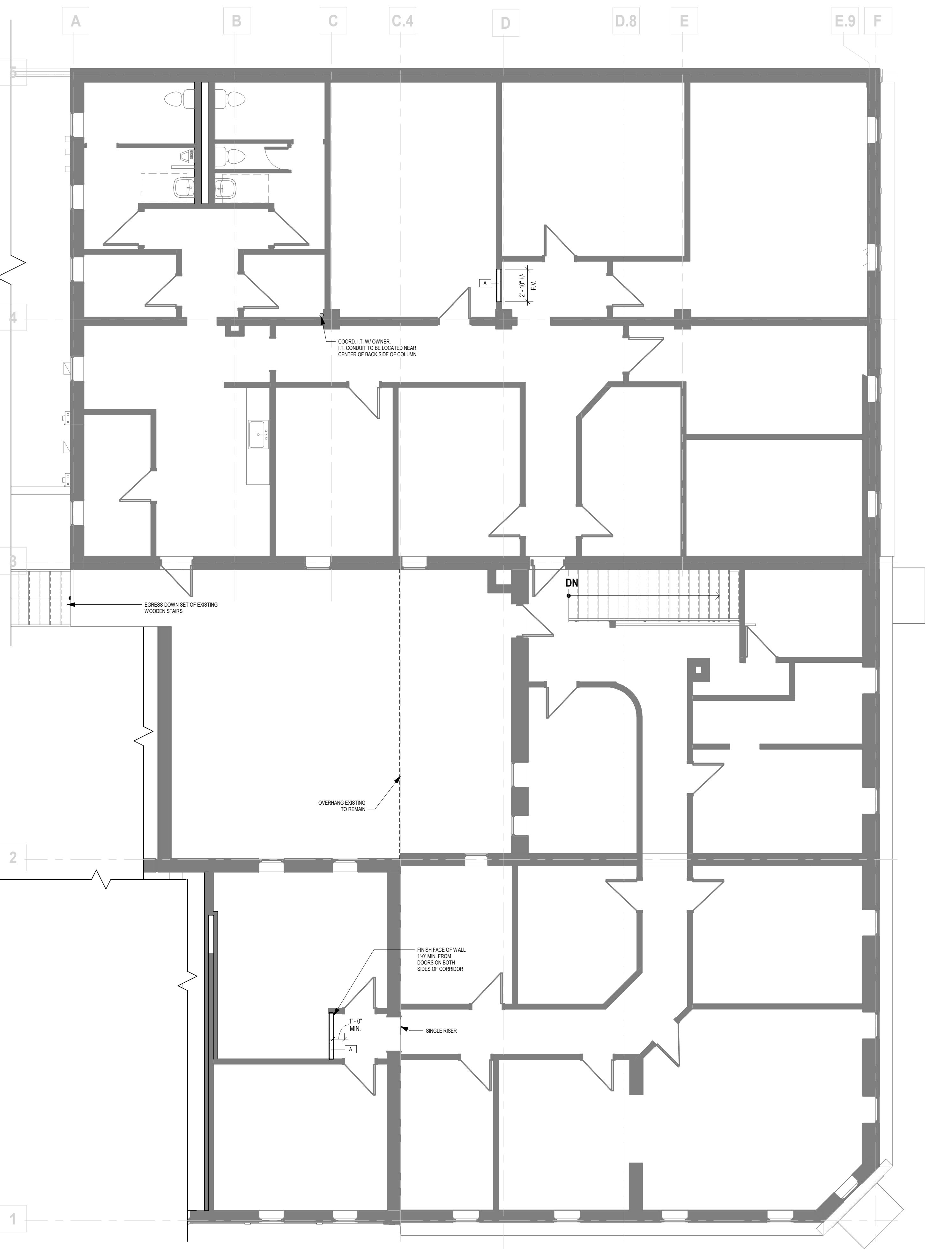
FLOOR PLANS

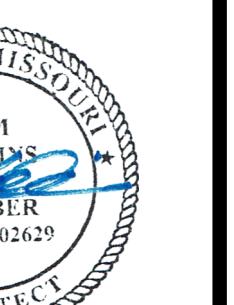
GENERAL NOTES:
FLOOR PLANS

- RE: GENERAL ARCHITECTURAL SHEETS FOR ADDITIONAL NOTES AND DETAILS THAT ARE APPLICABLE.
- ARCHITECTURAL ELEVATION 10'-0"
- DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FINISH GYPSUM BOARD (FG) FACE OF MASONRY (FOM) FACE OF CONCRETE WALLS (FC) AND COLUMN GRID LINES UNLESS NOTED OR SHOWN OTHERWISE.
- NOTE: WALL THICKNESSES ARE ACTUAL DIMENSIONS AND PERIODIC THICKNESS CHANGES ARE NOT SHOWN.
- DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 6 INCHES FROM FINISH WALL TO HINGE SIDE OF THE DOOR, ALWAYS ALIGNING THE HINGE SIDE OF THE DOOR TO THE PULL SIDE (STRIKE SIDE) OF THE DOOR TO THE INTERSECTING WALL, OR OTHER PROTRUDING OBJECTS.
- ALL ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS THE ADJOINING SPACES.
- PROVIDE FINISH LEVELS AS DESCRIBED:

 - LEVEL 1: ALL WALLS TO BE BROUGHT UP TO LEVEL 4 FINISH - ALARMS FOR BACK OF HOUSE EMPLOYEE OPERATIONS WHERE ROOM SIDE WALLS AND/OR CEILINGS HAVE PAINTED SURFACES.
 - LEVEL 2: CIRCULATION CORRIDORS WHERE ROOM SIDE WALLS AND/OR CEILINGS HAVE PAINTED SURFACES.
 - LEVEL 3: RE: FINISH LEGEND, FINISH SCHEDULE AND SPECIFICATIONS FOR DOORS, DOOR FRAME FINISHES, STAIR ENCLOSURES, SHAFT WALLS, EXIT PASSAGEWAYS AND EXTERIOR WALLS TO BE COORDINATED FOR PHASE OF WORK PER MATRIX AND PROJECT SCOPING.
 - LEVEL 4: EXISTING CONCRETE EXPANSION JOINTS DURING CONSTRUCTION, PATCHES/PARAPET FACE TO MATCH EXISTING RATINGS AS REQUIRED ON THE SHELL PORTION OF PROJECT.
 - LEVEL 5: CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH ALL APPLICABLE BUILDING CODES, LOCAL RULES, AND REGULATIONS, AND ALL OTHER CODES, REGULATIONS AND GOVERNING AGENCIES HAVING JURISDICTION WITH ALL APPLICABLE AMENDMENTS UNLESS ALTERED OR CHANGED BY VARIANCES OF OTHER LEGAL PROCEDURES.
 - PAINT SW 6990 CAVIAR (P1) 10'-0" A.F.F. TO DECK FOR ALL GYPSUM WALLS.
 - ALL EXPOSED CONDUIT AND DUCTWORK TO REMAIN UNPAINTED/UNFINISHED.

PERMIT DOCUMENTS



A4 1ST FLOOR FINISH PLAN
1/8" = 1'-0"

FINISH PLAN AND SCHEDULE

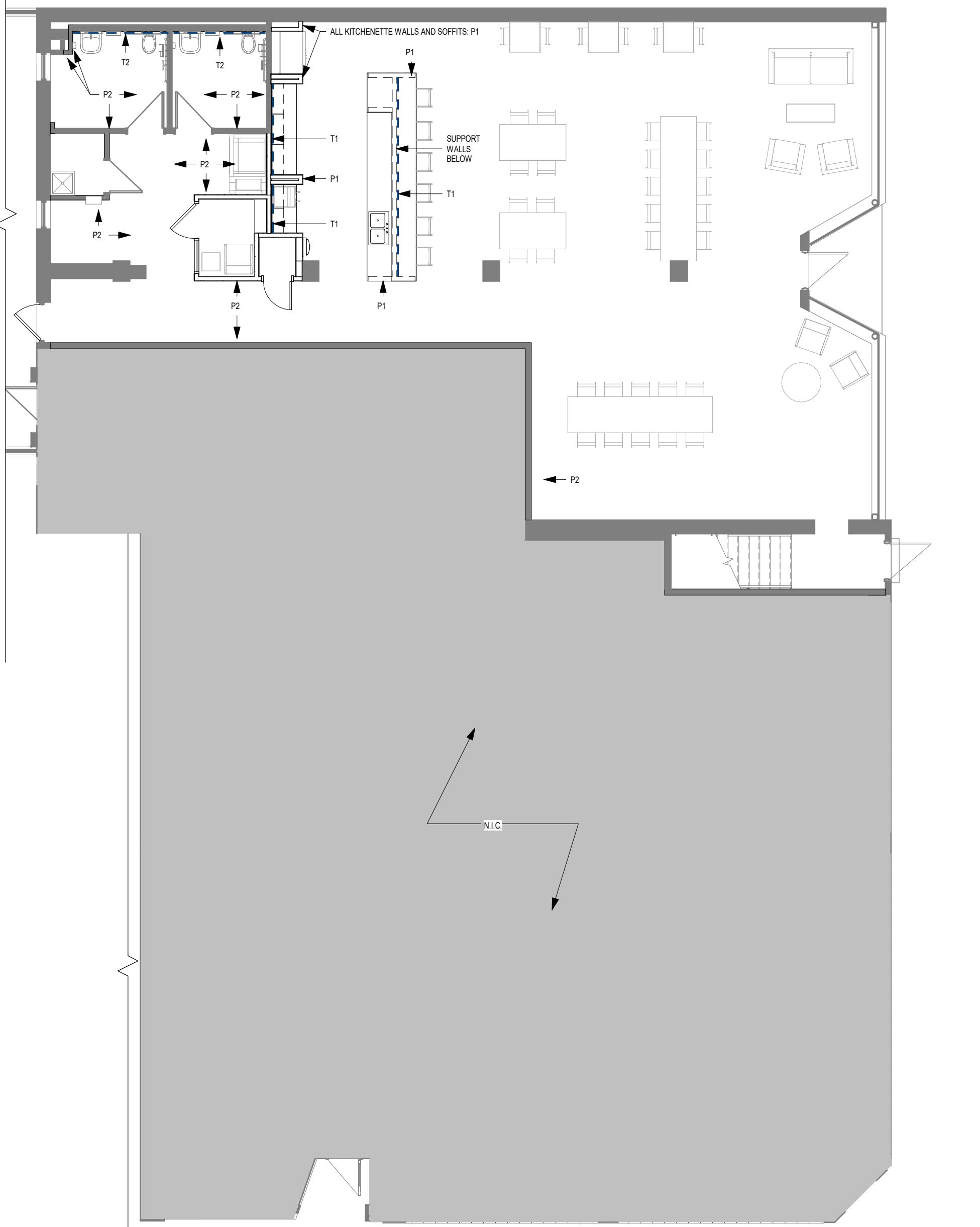
GENERAL NOTES:
WALL FINISH / WALL
PROTECTION PLANS

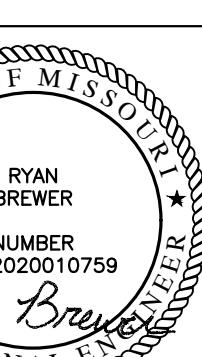
1. RE: G-SHEETS FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. RE: FINISH LEGEND & FINISH SCHEDULE FOR SPECIFIC FINISH INFORMATION & LOCATIONS.
3. CONTRACTOR SHALL PROVIDE ALL NECESSARY WALL FINISHES AND WALL PROTECTION ATTACHMENT. THIS INCLUDES, BUT IS NOT LIMITED TO: HANDRAILS, POSTER CASES, TV MONITORS, BATHROOM ACCESSORIES, COMPUTER MONITORS AND EQUIPMENT, RE: ROUGH CARPENTRY SPECIFICATION SECTION FOR CLARIFICATION.
4. CONTRACTOR SHALL PROVIDE MANUFACTURER'S STANDARD ACCESSORY MOLDING OR TRIM FOR WALL PROTECTION ITEMS, UNLESS NOTED OTHERWISE.

NOT IN ARCHITECTURAL SCOPE

WALL FINISH LEGEND
WALL TILE (T)

FINISH LEGEND					
SYMBOL	MATERIAL	MANUFACTURER	TYPE	COLOR	TYP. AREA / REMARKS
FLOOR FINISH					
SC1	SEALED CONCRETE				ALL FLOORS
WALL BASE					
RB1	RUBBER BASE	ALLSTATE	TRADITIONAL	#A09 (BLACK)	ALL GYP. WALLS
WALL FINISH					
P1	INTERIOR LATEX PAINT	SHERWIN WILLIAMS	PROMAR 200, ZERO VOC - EGGSHELL	SW 6990 CAVIAR	KITCHENETTE WALLS / SOFFITS, ISLAND SUPPORT WALLS, ALL DOORS
P2	INTERIOR LATEX PAINT	SHERWIN WILLIAMS	PROMAR 200, ZERO VOC - EGGSHELL	SW 7009 PEARLY WHITE	ALL WALLS, U.N.O.
T1	COLORBODY PORCELAIN TILE	DALTILE	UNIFORM MOSAICS	WHITE UC10	KITCHENETTE BACKSPLASH, FRONT OF ISLAND SUPPORT WALL
T2	GLAZED CERAMIC TILE	DALTILE	3X12 WALL TILE	SPIRIT MM30, COORD. W/ OWNER	RESTROOMS WET WALL - TILE WAINSCOT TO 6'-0" A.F.F. W/ P2 ABOVE
TG3	TILE GROUT - EPOXY (1/16" GROUT JOINTS)	MAPEI		10 BLACK	TO BE USED WITH T1
MILLWORK / CASEWORK					
PL1	PLASTIC LAMINATE	WILSONART	38 FINE VELVET TEXTURE FINISH	MISSION MAPLE 7990	ALL CASEWORK AND OPEN SHELVING IN KITCHENETTE
Q1	QUARTZ	WILSONART		CLOUDS REST Q4049	ALL COUNTERTOPS - KITCHENETTE AND PRIVATE ROOM
CEILING FINISH					
ACT1	ACOUSTICAL CEILING TILE (24"x24")	ARMSTRONG	FINE FISSURED - 1830, SQUARE EDGE	WHITE	RESTROOMS
ACT1 GRID	15/16" EXPOSED TEE SYSTEM	ARMSTRONG	PRELUDE XL	WHITE	TO BE USED W/ ACT1
P1	EXISTING CEILINGS	SHERWIN WILLIAMS	PROMAR 200, ZERO VOC - FLAT	SW 6990 CAVIAR	EXISTING CEILINGS THROUGHOUT - PAINT LINE AT ALL GYP. WALLS = 10'-0" A.F.F. TO DECK
P3	GYP CEILINGS	SHERWIN WILLIAMS	PROMAR 200, ZERO VOC - FLAT	SW 7005 PURE WHITE	PRIVATE ROOM
CONTACTS					
DALTILE	JAIME RUFFING	DALTILE	JAIME.RUFFING@DAL TILE.COM		
WILSONART	MANDY BRIDGES	VIRGINIA TILE	MANDY.BRIDGES@VIRGINIATILE.COM		





M101

ISSUE DATE: 01 JUNE, 2022

COLLINS WEBB #: 22046

MECHANICAL
NOTES, SYMBOLS
& ABBREVIATIONS

MECHANICAL ABBREVIATIONS (ALPHABETICAL BY ABBREVIATION)	
ABV	ABOVE
AC OR ACU	AIR-CONDITIONING UNIT
AHAP	AS HIGH AS POSSIBLE
AHU	AIR-HANDLING UNIT
AUTO	AUTOMATIC
BLW	BELLOW
C	CHILLER
CO	CONDENSATE
CF	CABINET FAN
CFM	CUBIC FEET PER MINUTE
CH	CABINET HEATER
CHP	CHILLED WATER PUMP
CLNG OR CLG	CEILING
CONC	CONCRETE
CP OR CWP	CONDENSER WATER PUMP
CS	CONDENSER WATER SUPPLY
CR	CONDENSER WATER RETURN
CRAC OR CACU	COMPUTER ROOM AIR-CONDITIONING UNIT
CREF	CHILLER ROOM EXHAUST FAN
CRU	CONDENSATE (STEAM) RETURN UNIT
CT	COOLING TOWER CELL
CTU	CONDENSATE (STEAM) TRANSFER UNIT
CU	CONDENSING UNIT
DV	CONSTANT VOLUME TERMINAL BOX
DEF	DISHWASHER EXHAUST FAN
DMPR	DAMPER
DN	DOWN
EA	EACH
EBH	ELECTRIC BASEBOARD HEATER
EDH	ELECTRIC DUCT-MOUNTED HEATER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ER	EXHAUST REGISTER
EUH	ELECTRIC UNIT HEATER
EXH	EXHAUST
FD	FIRE DAMPER
FCU	FAN-COIL UNIT
FF	FINAL FILTER
FFCH	FORCED-FLOW CABINET HEATER
FFU	FAN FILTER UNIT
FP	FAN POWERED TERMINAL BOX
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HUM	HUMIDIFIER
HWP OR HP	HEATING WATER PUMP
HX	HEAT EXCHANGER
KEF	KITCHEN (GREASE HOOD) EXHAUST FAN
KW	KILOWATTS
LD	LINEAR SUPPLY DIFFUSER
MOT	MOTORIZED
MTD	MOUNTED
MUAF	MAKE-UP AIR FAN
MUAU	MAKE-UP AIR-HANDLING UNIT
OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OPG OR OPG	OPENING

NOT ALL ABBREVIATIONS ON THIS LIST ARE NECESSARILY USED ON THIS PROJECT

MECHANICAL ABBREVIATIONS CONT. (ALPHABETICAL BY ABBREVIATION)	
PF	PRE-FILTER
PLNM	PLENUM
RA	RETURN AIR
RAF	RETURN AIR FAN
RAS OR RG	RETURN AIR GRILLE
RAR OR RR	RETURN AIR REGISTER
RAS	RETURN AIR SILENCER
RE	IN REFERENCE TO
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SAF OR SF	SUPPLY AIR FAN
SAG OR SG	SUPPLY AIR GRILLE
SAR OR SR	SUPPLY AIR REGISTER
SAS	SUPPLY AIR SILENCER
SCHP	SECONDARY CHILLED WATER PUMP
SD	SMOKE DAMPER OR DETECTOR
SPCHP	SPECIAL PROCESS CHILLED WATER PUMP
TA	THROW AWAY (FILTER TYPE)
TDEF	TRUCK DOCK EXHAUST FAN
TEF	TOILET EXHAUST FAN
TRANS	TRANSITION OR TRANSFER
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
VF	VENTILATION FAN
VFD	VARIABLE FREQUENCY DRIVE
VV	VARIABLE VOLUME TERMINAL BOX
W	WITH
XFMR OR TFMR	TRANSFORMER
XT OR EX	EXPANSION TANK

NOT ALL ABBREVIATIONS ON THIS LIST ARE NECESSARILY USED ON THIS PROJECT

DUCTWORK LEGEND (REFER TO SPECIFICATIONS SECTIONS 15815 AND 15820 FOR ADDITIONAL INFORMATION)		
SINGLE LINE	DESCRIPTION	DOUBLE LINE
	ROUND ELBOW DOWN	
	ROUND ELBOW UP	
	OFFSET TO CHANGE ELEVATION (AT 30° WHEN POSSIBLE. ARROW SLOPES DN. U.N.O.)	
	ROUND RADIUS ELBOW	
	90° STRAIGHT TEE	
	90° CONICAL TEE	
	45° LATERAL TAP	
	45° LATERAL CONICAL TEE	
	SIZE OR SHAPE TRANSITION	
	ROUND FLEXIBLE DUCT	
	RECTANGULAR ELBOW DOWN	
	RECTANGULAR ELBOW UP	
	RECTANGULAR RADIUS ELBOW	
	RECTANGULAR ELBOW WITH TURNING VANES	
	SPLIT BRANCH TAKE-OFF WITH SQUARE ELBOW & SPUTTER DAMPER	
	SPLIT BRANCH TAKE-OFF WITH RADIUS ELBOW & SPUTTER DAMPER	
	SPLIT BRANCH TAKE-OFF TEE WITH STATIONARY SPLITTER DAMPER	
	BRANCH TAKE-OFF WITH 45° LEAD IN TAP	
	INSULATED/LINED DUCTWORK (U.N.O.)	
	SQUARE FACED CEILING DIFFUSER 4-WAY DIRECTIONAL THROW (U.N.O.)	
	ROUND FACED CEILING DIFFUSER	
	CEILING RETURN OR EXHAUST AIR GRILLE OR REGISTER	
	SIDEALL SUPPLY GRILLE OR REGISTER	
	SUPPLY DUCT RISER	
	RETURN, EXHAUST OR OUTSIDE AIR DUCT RISER	
	MANUAL BALANCING DAMPER	
	AUTOMATIC (MOTOR-OPERATED) DAMPER	
	FIRE DAMPER	
	GRAVITY BACKDRAFT DAMPER	
	COMBINATION FIRE AND SMOKE DAMPER WITH SMOKE DETECTOR	
	SMOKE DAMPER (AUTOMATIC) WITH SMOKE DETECTOR	
	DUCT MOUNTED SMOKE DETECTOR	

NOT ALL SYMBOLS ON THIS LIST ARE NECESSARILY USED ON THIS PROJECT

STANDARD MECHANICAL SYMBOLS	
	gate valve
	ball valve
	globe valve
	butterfly valve
	plug valve
	angle valve
	check valve
	automatic control valve (straight through)
	automatic control valve (3-way)
	automatic control valve (angle)
	automatic control valve (straight through)
	solenoid valve
	pressure reducing valve
	pressure relief valve
	gauge cock
	pressure gauge with gauge cock
	thermometer
	thermometer well
	test plug
	flow meter
	temperature sensor
	pressure sensor
	differential pressure switch
	immersion thermostat
	manual air vent
	automatic air vent
	flow switch
	orifice
	pipe sleeve thru wall or floor
	expansion joint
	flexible pipe joint
	pipe guide
	anchor
	strainer (Y-type)
	strainer (basket type)
	union
	concentric reducer
	eccentric reducer
	direction of flow
	direction of slope
	thermostat
	humidistat
	fan speed controller
	CS - condenser water supply
	CR - condenser water return
	D - condensate drain

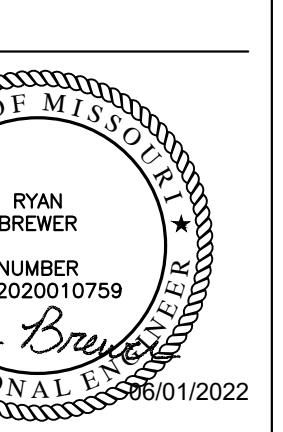
NOT ALL SYMBOLS ON THIS LIST ARE NECESSARILY USED ON THIS PROJECT

MECHANICAL GENERAL NOTES	
1.	PRIOR TO SUBMITTING BID, VISIT THE SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW GENERAL NOTES, SPECIFICATIONS AND ALL OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF ANY CONFLICTS OR DISCREPANCIES IN THE DRAWINGS.
2.	COORDINATE THE INSTALLATION OF MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. DUCTWORK AND PIPING SHALL BE ROUTED TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC.
3.	TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO BE LEFT IN PLACE. REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION AT NO COST TO THE OWNER.
4.	ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
5.	NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING SHALL BE SHOWN AT APPROXIMATE LOCATIONS. FIELD RELOCATIONS AND PIPING ADJUSTMENTS PRIOR TO FABRICATION AND PIPING SHALL BE MADE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. FIELD VERIFY FINAL LOCATIONS TO INSTALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
6.	REFER TO ARCHITECTURAL DRAWINGS FOR ALL RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. CHASE AND PENETRATIONS INTENDED FOR DUCTWORK AND PIPING SHALL BE SHOWN WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
7.	COORDINATE LOCATION OF ROOF PENETRATIONS WITH THE EXISTING CONDITIONS AND ARCHITECTURE.
8.	SEAL ALL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS. REPROOF ALL PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH UL REQUIREMENTS.
9.	COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECT. COORDINATE THE MOUNTING PLATES FOR DUCT PENETRATIONS.
10.	LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES SHALL BE ADJUSTED AS REQUIRED TO ACCOMMODATE FINAL CEILING AND LIGHTING LOCATIONS.
11.	DUCTWORK CROSSING A RATED WALL OR OTHER FIRE RATED ASSEMBLIES SHALL BE MINIMUM 26 GAUGE SHEET METAL.
12.	PROVIDE FIRE AND SMOKE DAMPERS IN DUCTWORK AS REQUIRED BY BUILDING CODE AUTHORITY HAVING JURISDICTION. FIRE AND SMOKE DAMPERS SHALL CONFORM TO NFPA AS APPLICABLE.
13.	PROVIDE WALL AND/OR DUCT ACCESS PANELS OR DOORS FOR ACCESS TO ALL FIRE AND SMOKE DAMPERS. ACCESS PANELS OR DOORS SHALL BE MINIMUM SIZE OF 6" x 6" AND SHALL BE INSTALLED IN A CONCEALED LOCATION. PROVIDE A REMOVABLE DUCT SECTION WHERE DUCT SIZE IS TOO SMALL FOR A 6" x 6" ACCESS DOOR.
14.	THERMOSTATS AND HUMIDISTATS SHALL BE LOCATED AND SET BY MECHANICAL CONTRACTOR AND WIRED IN CONDUIT BY ELECTRICAL CONTRACTOR. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO CONSTRUCTION. MAXIMUM ELEVATION HEIGHTS SHALL BE 48" AFF TO MEET ADA REQUIREMENTS UNLESS OTHERWISE SPECIFIED ON PLANS.
15.	COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED DEVICES WITH ANY WALL-MOUNTED ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS. CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF ANY WALL-MOUNTED DEVICES CAUSED BY A LACK OF COORDINATION.
16.	ALL DUCT OUTLETS TO WALL-MOUNTED DEVICES SHALL BE LOCATED AS SHOWN ON PLANS. DUCTWORK AND PIPING ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING SHALL BE PREPARED BY THE CONTRACTOR.
17.	BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED.
18.	PROVIDE DUCTWORK INSULATION: PROVIDE R-6

REECE NICHOLS TENANT IMPROVEMENTS

230 SW MAIN ST.
LEE'S SUMMIT, MO 64063

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REVISION DATES:



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COLLINS WEBB #: 22046

MECHANICAL FIRST
FLOOR PLAN

GENERAL NOTES (NOT ALL NOTES APPLY)

1. REFERENCE SHEET M101 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.

2. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH AUTO-CHANGEOVER BETWEEN HEATING AND COOLING AND 5-DEGREE DEADBAND. MOUNT AT 48" AFF. FROM FLOOR.

3. CONNECT TO EXISTING SUPPLY AIR DUCTWORK FROM EXISTING SUSPENDED FURNACE. FIELD VERIFY EXACT LOCATION.

4. EXISTING EXHAUST FAN AND ASSOCIATED EXHAUST DUCTWORK TO REMAIN.

5. UNDERCUT DOOR MINIMUM 1" FOR AIRFLOW.

KEYED NOTES:

1. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH AUTO-CHANGEOVER BETWEEN HEATING AND COOLING AND 5-DEGREE DEADBAND. MOUNT AT 48" AFF. FROM FLOOR.

2. CONNECT TO EXISTING SUPPLY AIR DUCTWORK FROM EXISTING SUSPENDED FURNACE. FIELD VERIFY EXACT LOCATION.

3. EXISTING SUSPENDED FURNACE, RETURN DUCTWORK, RETURN GRILLE, OUTDOOR AIR DUCTWORK, AND PLenum/VENT DUCT TO REMAIN. FIELD VERIFY EXACT LOCATION. BALANCE SUPPLY AIR TO 1400 CFM AND OUTDOOR AIR TO 200 CFM.

4. EXISTING EXHAUST FAN AND ASSOCIATED EXHAUST DUCTWORK TO REMAIN.

5. UNDERCUT DOOR MINIMUM 1" FOR AIRFLOW.

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1500 - BASIC MECHANICAL REQUIREMENTS	NECESSARY BY FIELD CONDITIONS, APPROVED EQUIPMENT SUBSTITUTIONS, AND CONTRACTOR'S COORDINATION WITH OTHER TRADES.	OTHERWISE BY ARCHITECT. EACH ITEM SHALL HAVE A COVER PAGE STATING PROJECT, SPECIFICATION AND PARAGRAPH REFERENCE NUMBER, OR DRAWING REFERENCE NUMBER AND SCHEDULED EQUIPMENT IDENTIFICATION NUMBER IF APPLICABLE.	INSTRUCTION OF OWNERS OPERATING PERSONNEL.	FROM THE UNIT WITHOUT DISCONNECTING THE SUPPLY AIR DUCTWORK FOR SERVICING OF FAN MOTORS. MOTORS SHALL BE PERMANENTLY LUBRICATED AND HAVE THERMAL OVERLOAD PROTECTION.	EXTEND STRAIGHT AWAY FROM CONNECTORS FOR A FEW INCHES PRIOR TO INITIATING ANY BEND. MAKE CONNECTIONS OF FLEXIBLE DUCT TO RIGID DUCT OR TERMINALS AS FOLLOWS:						K
DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND ALL OTHER SPECIFICATION SECTIONS, APPLY TO THIS AND THE OTHER SECTIONS OF DRAWING 15.	AT COMPLETION OF THE PROJECT AND BEFORE FINAL APPROVAL, MAKE ANY FINAL CORRECTIONS TO DRAWINGS AND CERTIFY THE ACCURACY OF EACH PRINT BY SIGNATURE THEREON. A SET OF REPRODUCED DRAWINGS ALONG WITH ONE SET OF BULLETS OF THE MOST RECENT SET OF DRAWINGS WITH TEMPERATURE CONTROL DRAWINGS AND DIMENSIONS WHICH DIVERGE FROM THE SPECIFICATIONS. CONTRACT DRAWINGS AND/OR SUBMITTALS SHALL BE DELIVERED TO THE ARCHITECT UPON COMPLETION OF THE WORK AND PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.	THE REVIEW OF SUBMITTALS DOES NOT RELIEVE RESPONSIBILITY OF SHOP DRAWINGS OR EQUIPMENT. DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE OWNER. THE OWNER IS RESPONSIBLE FOR THE ACCURACY OF THE DRAWINGS AND SPECIFICATIONS. CONTRACT DRAWINGS AND/OR SUBMITTALS SHALL BE DELIVERED TO THE ARCHITECT UPON COMPLETION OF THE PROJECT.	INSTRUCTIONS TO THE OWNER'S OPERATING PERSONNEL IN THE OPERATION, ADJUSTMENT, CARE AND MAINTENANCE OF ALL HVAC EQUIPMENT AND SYSTEMS. INSTRUCTION SHALL BE PROVIDED AT A TIME APPROVED BY THE OWNER AND AFTER ALL HVAC EQUIPMENT AND SYSTEMS ARE COMPLETELY ASSEMBLED, ADJUSTED AND OPERATING AS SPECIFIED IN THE DRAWINGS. NOTIFY THE ARCHITECT-ENGINEER OF INSTRUCTIONS TO BE GIVEN. QUALIFICATIONS OF INSTRUCTORS SHALL BE SUBJECT TO APPROVAL OF THE OWNER AND EQUIPMENT MANUFACTURER. ADDITIONAL REQUIREMENTS CONCERNING OPERATION AND MAINTENANCE OF MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE SPECIFIED IN OTHER DRAWINGS. THE OWNER IS RESPONSIBLE FOR THE ACCURACY OF THE DRAWINGS AND SPECIFICATIONS. CONTRACT DRAWINGS AND/OR SUBMITTALS SHALL BE DELIVERED TO OWNERS OPERATING PERSONNEL, SIGNED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. SHALL BE SUBMITTED TO THE ARCHITECT-ENGINEER PRIOR TO SUBMITTING APPLICATION FOR FINAL PAYMENT. AN ADDITIONAL COPY OF THIS ACKNOWLEDGMENT IS REQUIRED IN EACH COPY OF OPERATION AND MAINTENANCE MANUALS REQUIRED IN THE SECTION, OPERATION AND MAINTENANCE MANUALS.	1. APPLY FOSTER'S 3040 SPLICER ALUMINUM TO THE INSIDE OF THE FLEXIBLE DUCT TO DEPTH OF 3 INCHES.	1. APPLY FOSTER'S 3040 SPLICER ALUMINUM TO THE INSIDE OF THE FLEXIBLE DUCT TO DEPTH OF 3 INCHES.						K
READ THE SPECIFICATIONS AND REVIEW DRAWINGS FOR ALL DIVISIONS OF WORK AND COORDINATE AND THE MOVE OF SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. PROVIDE SUB-CONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS.	SCHEDULE THE COMPLETION AND INSPECTION OF WORK AND THE WORK OF SUBCONTRACTORS WORK TO COMPLY WITH THE SCHEDULE AND THE PROJECT COMPLETION DATE.	IF APPARATUS OR MATERIALS ARE SUBSTITUTED FOR THOSE SPECIFIED UNDER THIS SECTION, SUCH SUBSTITUTIONS NECESSITATE CHANGES IN OR ADDITIONAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR THE COST OF THE SUBSTITUTION AND ADDITIONAL COST TO THE OWNER. OWNER ASSUME COST AND ENTRE RESPONSIBILITY THEREOF. ARCHITECT-ENGINEER'S INTERPRETATION OF CONTRACT DOCUMENTS OR CONDITIONS SHALL BE FINAL WITH NO ADDITIONAL COMPENSATION PERMITTED.	INSTRUCTIONS TO THE OWNER'S OPERATING PERSONNEL IN THE OPERATION, ADJUSTMENT, CARE AND MAINTENANCE OF ALL HVAC EQUIPMENT AND SYSTEMS. INSTRUCTION SHALL BE PROVIDED AT A TIME APPROVED BY THE OWNER AND AFTER ALL HVAC EQUIPMENT AND SYSTEMS ARE COMPLETELY ASSEMBLED, ADJUSTED AND OPERATING AS SPECIFIED IN THE DRAWINGS. NOTIFY THE ARCHITECT-ENGINEER OF INSTRUCTIONS TO BE GIVEN. QUALIFICATIONS OF INSTRUCTORS SHALL BE SUBJECT TO APPROVAL OF THE OWNER AND EQUIPMENT MANUFACTURER. ADDITIONAL REQUIREMENTS CONCERNING OPERATION AND MAINTENANCE OF MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE SPECIFIED IN OTHER DRAWINGS. THE OWNER IS RESPONSIBLE FOR THE ACCURACY OF THE DRAWINGS AND SPECIFICATIONS. CONTRACT DRAWINGS AND/OR SUBMITTALS SHALL BE DELIVERED TO OWNERS OPERATING PERSONNEL, SIGNED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. SHALL BE SUBMITTED TO THE ARCHITECT-ENGINEER PRIOR TO SUBMITTING APPLICATION FOR FINAL PAYMENT. AN ADDITIONAL COPY OF THIS ACKNOWLEDGMENT IS REQUIRED IN EACH COPY OF OPERATION AND MAINTENANCE MANUALS REQUIRED IN THE SECTION, OPERATION AND MAINTENANCE MANUALS.	2. SLIDE THE FLEXIBLE DUCT OVER THE CONVERGENCE AND WRAP WITH MINIMUM OF TWO COPIES OF THE REINFORCED DUCT TAPE. THE PARTING ADHESIVE SIDES BACK FROM END OF FLEXIBLE DUCT AND SEALING OVERLAP WITH LAST WRAP.	2. SLIDE THE FLEXIBLE DUCT OVER THE CONVERGENCE AND WRAP WITH MINIMUM OF TWO COPIES OF THE REINFORCED DUCT TAPE. THE PARTING ADHESIVE SIDES BACK FROM END OF FLEXIBLE DUCT AND SEALING OVERLAP WITH LAST WRAP.						K
VISIT THE SITE PRIOR TO SUBMITTAL, BUT TO DETERMINE CONDITIONS AFFECTING THE WORK, ANY ITEM WHICH IS NOT PROVIDED IN THE BID DOCUMENTS, ANY PROPOSAL WHICH IS NOT LISTED SEPARATELY AND QUALIFIED IN THE BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE RESPONSIBILITY IN PERFORMANCE.	TEST AND BALANCE REPORT. SUBMIT AT FINAL INSPECTION OPERATION AND MAINTENANCE MANUALS. SUBMIT COPIES IN COMPLIANCE WITH SECTION, OPERATION AND MAINTENANCE MANUALS.	TEST AND BALANCE REPORT. SUBMIT AT FINAL INSPECTION OPERATION AND MAINTENANCE MANUALS. SUBMIT COPIES IN COMPLIANCE WITH SECTION, OPERATION AND MAINTENANCE MANUALS.	INSTRUCTIONS TO THE OWNER'S OPERATING PERSONNEL IN THE OPERATION, ADJUSTMENT, CARE AND MAINTENANCE OF ALL HVAC EQUIPMENT AND SYSTEMS. INSTRUCTION SHALL BE PROVIDED AT A TIME APPROVED BY THE OWNER AND AFTER ALL HVAC EQUIPMENT AND SYSTEMS ARE COMPLETELY ASSEMBLED, ADJUSTED AND OPERATING AS SPECIFIED IN THE DRAWINGS. NOTIFY THE ARCHITECT-ENGINEER OF INSTRUCTIONS TO BE GIVEN. QUALIFICATIONS OF INSTRUCTORS SHALL BE SUBJECT TO APPROVAL OF THE OWNER AND EQUIPMENT MANUFACTURER. ADDITIONAL REQUIREMENTS CONCERNING OPERATION AND MAINTENANCE OF MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE SPECIFIED IN OTHER DRAWINGS. THE OWNER IS RESPONSIBLE FOR THE ACCURACY OF THE DRAWINGS AND SPECIFICATIONS. CONTRACT DRAWINGS AND/OR SUBMITTALS SHALL BE DELIVERED TO OWNERS OPERATING PERSONNEL, SIGNED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. SHALL BE SUBMITTED TO THE ARCHITECT-ENGINEER PRIOR TO SUBMITTING APPLICATION FOR FINAL PAYMENT. AN ADDITIONAL COPY OF THIS ACKNOWLEDGMENT IS REQUIRED IN EACH COPY OF OPERATION AND MAINTENANCE MANUALS REQUIRED IN THE SECTION, OPERATION AND MAINTENANCE MANUALS.	3. PLACE A CLAMP OR STRAP OVER THE TAPE END AND SECURE FIRMLY.	3. PLACE A CLAMP OR STRAP OVER THE TAPE END AND SECURE FIRMLY.						K
READ ALL RELEVANT DOCUMENTS, BECOME FAMILIAR WITH THE JOB, SCOPE OF WORK, TYPE OF GENERAL CONSTRUCTION, AND THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. ALSO UNDERSTAND THE PURPOSE FOR WHICH THESE DOCUMENTS HAVE BEEN PREPARED AND BECOME COGNIZANT OF ALL THE DETAILS INVOLVED. COORDINATE WORK WITH THAT OF OTHERS.	DEFINITIONS.	DEFINITIONS.	INSTRUCTIONS TO THE OWNER'S OPERATING PERSONNEL IN THE OPERATION, ADJUSTMENT, CARE AND MAINTENANCE OF ALL HVAC EQUIPMENT AND SYSTEMS. INSTRUCTION SHALL BE PROVIDED AT A TIME APPROVED BY THE OWNER AND AFTER ALL HVAC EQUIPMENT AND SYSTEMS ARE COMPLETELY ASSEMBLED, ADJUSTED AND OPERATING AS SPECIFIED IN THE DRAWINGS. NOTIFY THE ARCHITECT-ENGINEER OF INSTRUCTIONS TO BE GIVEN. QUALIFICATIONS OF INSTRUCTORS SHALL BE SUBJECT TO APPROVAL OF THE OWNER AND EQUIPMENT MANUFACTURER. ADDITIONAL REQUIREMENTS CONCERNING OPERATION AND MAINTENANCE OF MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE SPECIFIED IN OTHER DRAWINGS. THE OWNER IS RESPONSIBLE FOR THE ACCURACY OF THE DRAWINGS AND SPECIFICATIONS. CONTRACT DRAWINGS AND/OR SUBMITTALS SHALL BE DELIVERED TO OWNERS OPERATING PERSONNEL, SIGNED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. SHALL BE SUBMITTED TO THE ARCHITECT-ENGINEER PRIOR TO SUBMITTING APPLICATION FOR FINAL PAYMENT. AN ADDITIONAL COPY OF THIS ACKNOWLEDGMENT IS REQUIRED IN EACH COPY OF OPERATION AND MAINTENANCE MANUALS REQUIRED IN THE SECTION, OPERATION AND MAINTENANCE MANUALS.	4. REPAIR ALL DAMAGE TO VAPOR BARRIER WITH FOSTER'S 350 REINFORCED WITH 1/4 INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.	4. REPAIR ALL DAMAGE TO VAPOR BARRIER WITH FOSTER'S 350 REINFORCED WITH 1/4 INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.						K
READ ALL RELEVANT DOCUMENTS, BECOME FAMILIAR WITH THE JOB, SCOPE OF WORK, TYPE OF GENERAL CONSTRUCTION, AND THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. ALSO UNDERSTAND THE PURPOSE FOR WHICH THESE DOCUMENTS HAVE BEEN PREPARED AND BECOME COGNIZANT OF ALL THE DETAILS INVOLVED. COORDINATE WORK WITH THAT OF OTHERS.	DEFINITIONS.	DEFINITIONS.	INSTRUCTIONS TO THE OWNER'S OPERATING PERSONNEL IN THE OPERATION, ADJUSTMENT, CARE AND MAINTENANCE OF ALL HVAC EQUIPMENT AND SYSTEMS. INSTRUCTION SHALL BE PROVIDED AT A TIME APPROVED BY THE OWNER AND AFTER ALL HVAC EQUIPMENT AND SYSTEMS ARE COMPLETELY ASSEMBLED, ADJUSTED AND OPERATING AS SPECIFIED IN THE DRAWINGS. NOTIFY THE ARCHITECT-ENGINEER OF INSTRUCTIONS TO BE GIVEN. QUALIFICATIONS OF INSTRUCTORS SHALL BE SUBJECT TO APPROVAL OF THE OWNER AND EQUIPMENT MANUFACTURER. ADDITIONAL REQUIREMENTS CONCERNING OPERATION AND MAINTENANCE OF MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE SPECIFIED IN OTHER DRAWINGS. THE OWNER IS RESPONSIBLE FOR THE ACCURACY OF THE DRAWINGS AND SPECIFICATIONS. CONTRACT DRAWINGS AND/OR SUBMITTALS SHALL BE DELIVERED TO OWNERS OPERATING PERSONNEL, SIGNED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. SHALL BE SUBMITTED TO THE ARCHITECT-ENGINEER PRIOR TO SUBMITTING APPLICATION FOR FINAL PAYMENT. AN ADDITIONAL COPY OF THIS ACKNOWLEDGMENT IS REQUIRED IN EACH COPY OF OPERATION AND MAINTENANCE MANUALS REQUIRED IN THE SECTION, OPERATION AND MAINTENANCE MANUALS.	5. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.	5. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.						K
GENERAL REQUIREMENTS	GENERAL LOCATION AND INTENT OF THE MECHANICAL SYSTEMS, WHERE DRAWINGS, EXISTING SITE CONDITIONS, SPECIFICATIONS OR OTHER TRADES CONFLICT OR ARE UNCLEAR, NOTIFY THE ARCHITECT-ENGINEER IN WRITING. OF VARIATIONS TO CONTRACT DRAWINGS AND SPECIFICATIONS, NOTIFY THE ARCHITECT-ENGINEER IN WRITING. ARCHITECT-ENGINEER'S INTERPRETATION OF CONTRACT DOCUMENTS OR CONDITIONS SHALL BE FINAL WITH NO ADDITIONAL COMPENSATION PERMITTED.	GENERAL REQUIREMENTS	GENERAL REQUIREMENTS	6. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.	6. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.						K
PROVIDE ALL MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE MECHANICAL SYSTEM AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS. ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE OTHERS SHALL BE PROVIDED, CLOSELY COORDINATE THE ENTIRE INSTALLATION WITH THE ARCHITECT-ENGINEER, AS REQUIRED.	DEMOLITION	DEMOLITION	DEMOLITION	7. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.	7. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.						K
THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFIED IN THE OTHER. THE OTHER MATERIAL OR LABOR IS NECESSARY TO COMPLETE THE WORK, WHICH IS USUALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE FURNISHED AND INSTALLED AS PART OF CONTRACT.	VERIFYING OF THE REMOVAL OF ALL EXISTING FIRE PROTECTION, PLUMBING, FIXTURES, PIPING, HVAC UNITS, REFRIGERANT RECAPTURE, EXHAUST FANS, ETC. AND ADDITIONAL EQUIPMENT AS SHOWN ON THE DRAWINGS. VERIFYING OF THE REMOVAL OF ALL EXISTING EQUIPMENT AS SHOWN ON THE DRAWINGS. VERIFYING OF THE REMOVAL OF ALL EXISTING EQUIPMENT AS SHOWN ON THE DRAWINGS. VERIFYING OF THE REMOVAL OF ALL EXISTING EQUIPMENT AS SHOWN ON THE DRAWINGS.	VERIFYING OF THE REMOVAL OF ALL EXISTING FIRE PROTECTION, PLUMBING, FIXTURES, PIPING, HVAC UNITS, REFRIGERANT RECAPTURE, EXHAUST FANS, ETC. AND ADDITIONAL EQUIPMENT AS SHOWN ON THE DRAWINGS. VERIFYING OF THE REMOVAL OF ALL EXISTING EQUIPMENT AS SHOWN ON THE DRAWINGS. VERIFYING OF THE REMOVAL OF ALL EXISTING EQUIPMENT AS SHOWN ON THE DRAWINGS. VERIFYING OF THE REMOVAL OF ALL EXISTING EQUIPMENT AS SHOWN ON THE DRAWINGS.	VERIFYING OF THE REMOVAL OF ALL EXISTING FIRE PROTECTION, PLUMBING, FIXTURES, PIPING, HVAC UNITS, REFRIGERANT RECAPTURE, EXHAUST FANS, ETC. AND ADDITIONAL EQUIPMENT AS SHOWN ON THE DRAWINGS. VERIFYING OF THE REMOVAL OF ALL EXISTING EQUIPMENT AS SHOWN ON THE DRAWINGS. VERIFYING OF THE REMOVAL OF ALL EXISTING EQUIPMENT AS SHOWN ON THE DRAWINGS. VERIFYING OF THE REMOVAL OF ALL EXISTING EQUIPMENT AS SHOWN ON THE DRAWINGS.	8. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.	8. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.						K
WHERE THE DRAWINGS OR SPECIFICATIONS CALL FOR ITEMS WHICH EXCEED CODES OR THE OWNER'S CRITERIA, PROVIDE THE SYSTEM WITH THE MORE STRINGENT REQUIREMENTS AS DESIGNED AND DESCRIBED ON THESE DRAWINGS, UNLESS SPECIFICALLY NOTED OTHERWISE.	EXISTING CONDITIONS, EQUIPMENT, MATERIALS, AND EQUIPMENT, INCLUDING ALL TRADES, SHALL BE PROVIDED IN THE BID AND IF THEY ARE NOT INCLUDED IN THE BID, THEY MUST BE QUALIFIED AS A SEPARATE LINE ITEM IN THE BID. ANY CONTRACT IS ISSUED, NO ADDITIONAL COST DUE TO CODE ISSUES SHALL BE REIMBURSED BY THE OWNER.	EXISTING CONDITIONS, EQUIPMENT, MATERIALS, AND EQUIPMENT, INCLUDING ALL TRADES, SHALL BE PROVIDED IN THE BID AND IF THEY ARE NOT INCLUDED IN THE BID, THEY MUST BE QUALIFIED AS A SEPARATE LINE ITEM IN THE BID. ANY CONTRACT IS ISSUED, NO ADDITIONAL COST DUE TO CODE ISSUES SHALL BE REIMBURSED BY THE OWNER.	EXISTING CONDITIONS, EQUIPMENT, MATERIALS, AND EQUIPMENT, INCLUDING ALL TRADES, SHALL BE PROVIDED IN THE BID AND IF THEY ARE NOT INCLUDED IN THE BID, THEY MUST BE QUALIFIED AS A SEPARATE LINE ITEM IN THE BID. ANY CONTRACT IS ISSUED, NO ADDITIONAL COST DUE TO CODE ISSUES SHALL BE REIMBURSED BY THE OWNER.	9. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.	9. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.						K
ALL WORK SHALL CONFORM TO THE OWNER'S CRITERIA, THE STATE'S, COUNTY'S, CITY'S, AND LOCAL CODES AND ORDINANCES, SAFETY AND HEALTH CODES, NFPA CODES, ENERGY CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. INQUIRE INTO AND COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. INCLUDE ANY ADDITIONAL REQUIREMENTS NOTED IN THE DRAWINGS AND IF THEY ARE NOT INCLUDED IN THE BID, THEY MUST BE QUALIFIED AS A SEPARATE LINE ITEM IN THE BID. ANY CONTRACT IS ISSUED, NO ADDITIONAL COST DUE TO CODE ISSUES SHALL BE REIMBURSED BY THE OWNER.	CODES	CODES	CODES	10. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.	10. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.						K
LICENSES, PERMITS, COMMISSIONING, INSPECTIONS & FEES	OBTAIN AND PAY FOR ALL LICENSES, PERMITS, COMMISSIONING, INSPECTIONS, AND FEES REQUIRED OR RELATED TO THIS WORK.	OBTAIN AND PAY FOR ALL LICENSES, PERMITS, COMMISSIONING, INSPECTIONS, AND FEES REQUIRED OR RELATED TO THIS WORK.	OBTAIN AND PAY FOR ALL LICENSES, PERMITS, COMMISSIONING, INSPECTIONS, AND FEES REQUIRED OR RELATED TO THIS WORK.	11. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.	11. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.						K
PROVIDE TO THE OWNER/ARCHITECT A COMMISSIONING PLAN, PRELIMINARY COMMISSIONING REPORT, FINAL COMMISSIONING REPORT, AND CERTIFICATE OF INSPECTION AND FINAL INSPECTION APPROVAL AT COMPLETION OF PROJECT.	TRADE NAMES, MANUFACTURERS AND SHOP DRAWINGS	TRADE NAMES, MANUFACTURERS AND SHOP DRAWINGS	TRADE NAMES, MANUFACTURERS AND SHOP DRAWINGS	12. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.	12. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.						K
WHERE TRADE NAMES AND MANUFACTURERS ARE USED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE EXACT EQUIPMENT AS AN EQUAL OR BETTER, IN ALL ASPECTS TO THAT SPECIFIED, SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT-ENGINEER PRIOR TO INSTALLATION. ANY CHANGES TO ELECTRICAL SERVICE, STRUCTURAL FRAMING, ETC. OR ANY OTHER MODIFICATION THAT USES AN ALTERNATE EQUIPMENT, SHALL BE COORDINATED WITH OTHER TRADES AND SHALL INCLUDE ALL COSTS IN BID FOR THE REQUIRED CHANGES. THE USE OF ANY UNTESTED EQUIPMENT SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE OWNER'S EXPENSE.	GUARANTEES	GUARANTEES	GUARANTEES	13. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.	13. INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 350.						K
INDUSTRY STANDARDS AND CODES, UNLESS MODIFIED BY THESE SPECIFICATIONS, THE DESIGN, MANUFACTURER, TESTING AND METHOD OF INSTALLATION OF ALL MATERIALS, APPARATUS AND EQUIPMENT SHALL CONFORM TO THE FOLLOWING:	1. ARI CODE FOR REFRIGERATION APPARATUS	2. ANSI B91 SAFETY CODE FOR MECHANICAL REFRIGERATION	3. STANDARDS OF NATIONAL FIRE PROTECTION ASSOCIATION	4. SHRAE	5. ASHRAE						K
RECORD DRAWINGS	MANTAIN ONE COPY OF DRAWINGS ON THE JOB SITE TO RECORD DEVIATIONS FROM CONTRACT DRAWINGS, SUCH AS LOCATION OF CONCEALED PIPING VALVES AND DUCTS, REVISIONS, ADDENDUMS, AND CHANGE ORDERS, AND SIGNIFICANT DEVIATIONS MADE										K

1500 - BASIC MECHANICAL REQUIREMENTS

DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND ALL OTHER SPECIFICATION SECTIONS, APPLY TO THIS AND THE OTHER SECTIONS OF DRAWING 15.

READ THE SPECIFICATIONS AND REVIEW DRAWINGS FOR ALL DIVISIONS OF WORK AND COORDINATE AND THE MOVE OF SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. PROVIDE SUB-CONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS.

SCHEDULE THE COMPLETION AND INSPECTION OF WORK AND THE WORK OF SUBCONTRACTORS WORK TO COMPLY WITH THE SCHEDULE AND THE PROJECT COMPLETION DATE.

VISIT THE SITE PRIOR TO SUBMITTAL, BUT TO DETERMINE CONDITIONS AFFECTING THE WORK, ANY ITEM WHICH IS NOT PROVIDED IN THE BID DOCUMENTS, ANY PROPOSAL WHICH IS NOT LISTED SEPARATELY AND QUALIFIED IN THE BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE RESPONSIBILITY IN PERFORMANCE.

READ ALL RELEVANT DOCUMENTS, BECOME FAMILIAR WITH THE JOB, SCOPE OF WORK, TYPE OF GENERAL CONSTRUCTION, AND THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. ALSO UNDERSTAND THE PURPOSE FOR WHICH THESE DOCUMENTS HAVE BEEN PREPARED AND BECOME COGNIZANT OF ALL THE DETAILS INVOLVED. COORDINATE WORK WITH THAT OF OTHERS.

DEFINITIONS.

THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFIED IN THE OTHER. THE OTHER MATERIAL OR LABOR IS NECESSARY TO COMPLETE THE WORK, WHICH IS USUALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE FURNISHED AND INSTALLED AS PART OF CONTRACT.

WHERE THE DRAWINGS OR SPECIFICATIONS CALL FOR ITEMS WHICH EXCEED CODES OR THE OWNER'S CRITERIA, PROVIDE THE SYSTEM WITH THE MORE STRINGENT REQUIREMENTS AS DESIGNED AND DESCRIBED ON THESE DRAWINGS, UNLESS SPECIFICALLY NOTED OTHERWISE.

ALL WORK SHALL CONFORM TO THE OWNER'S CRITERIA, THE STATE'S, COUNTY'S, CITY'S, AND LOCAL CODES AND ORDINANCES, SAFETY AND HEALTH CODES, NFPA CODES, ENERGY CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. INQUIRE INTO AND COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. INCLUDE ANY ADDITIONAL REQUIREMENTS NOTED IN THE DRAWINGS AND IF THEY ARE NOT INCLUDED IN THE BID, THEY MUST BE QUALIFIED AS A SEPARATE LINE ITEM IN THE BID. ANY CONTRACT IS ISSUED, NO ADDITIONAL COST DUE TO CODE ISSUES SHALL BE REIMBURSED BY THE OWNER.

LICENSES, PERMITS, COMMISSIONING, INSPECTIONS & FEES

OBTAIN AND PAY FOR ALL LICENSES, PERMITS, COMMISSIONING, INSPECTIONS, AND FEES REQUIRED OR RELATED TO THIS WORK.

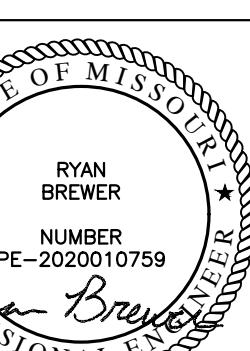
PROVIDE TO THE OWNER/ARCHITECT A COMMISSIONING PLAN, PRELIMINARY COMMISSIONING REPORT, FINAL COMMISSIONING REPORT, AND CERTIFICATE OF INSPECTION AND FINAL INSPECTION APPROVAL AT COMPLETION OF PROJECT.

TRADE NAMES, MANUFACTURERS AND SHOP DRAWINGS

WHERE TRADE NAMES AND MANUFACTURERS ARE USED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE EXACT EQUIPMENT AS AN EQUAL OR BETTER, IN ALL ASPECTS TO THAT SPECIFIED, SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT-ENGINEER PRIOR TO INSTALLATION. ANY CHANGES TO ELECTRICAL SERVICE, STRUCTURAL FRAMING, ETC. OR ANY OTHER MODIFICATION THAT USES AN ALTERNATE EQUIPMENT, SHALL BE COORDINATED WITH OTHER TRADES AND SHALL INCLUDE ALL COSTS IN BID FOR THE REQUIRED CHANGES. THE USE OF ANY UNTESTED EQUIPMENT SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE OWNER'S EXPENSE.

GUARANTEES

INDUSTRY STANDARDS AND CODES, UN



P101

ISSUE DATE: 01 JUNE, 2022
COLLINS WEBB #: 22046

PLUMBING NOTES,
SYMBOLS &
ABBREVIATIONS

GENERAL PLUMBING NOTES

- ALL WORK SHALL BE IN CONFORMANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
- PROVIDE TO OWNER A COPY OF ALL REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS AND ALL PLUMBING SYSTEMS EQUIPMENT MANUALS INCLUDING WARRANTIES.
- COORDINATE THE COMPLETE INSTALLATION OF SYSTEMS TO AVOID CONFLICT WITH OTHER TRADES.
- COORDINATE ALL ABOVE SLAB AND UNDER SLAB SANITARY AND WATER PIPING SYSTEMS TO AVOID CONFLICT WITH ALL OTHER TRADES SYSTEMS AND COLUMN FOOTINGS. ALL SCAFFOLDING AND CONCRETE FORMING SHALL BE PLACED ON SCAFFOLDING OR CONCRETE FORMING TO ENSURE THEY ARE INSTALLED PLUMB AND FLUSH WITHOUT COUCH, RISE IN THE SLAB, OR VENTS AROUND GRATES OR TOPS. ALL CLEANOUTS SHALL BE INSTALLED ALONG MANS AT 6'-0" DISTANCE MAXIMUM. ALL FLOOR AND WALL CLEANOUTS SHALL BE ACCESSIBLE FOR MAINTENANCE AND NOT INSTALLED BEHIND EQUIPMENT. ANY DRAIN GRATES THAT ARE DAMAGED AS A RESULT OF OTHER CONSTRUCTION PRIOR TO RELEASE OF THE BUILDING TO THE OWNER SHALL BE REPLACED WITH LIKE GRATE AT NO EXPENSE OF THE OWNER.
- ALL EXPOSED PIPES PENETRATING FINISHED WALLS SHALL BE EQUIPPED WITH WALL ESCUTCHEONS.
- PROVIDE TRAP AND SEAL PRIMERS ON ALL FLOOR DRAINS IF REQUIRED BY CODE OR OWNER.
- PLUMBING VENTS THROUGH THE ROOF ARE LOCATED AT A MINIMUM OF 5'-0" FROM BUILDING PARAPETS AND 10'-0" FROM FRESH AIR INTAKES AND AS REQUIRED TO MEET LOCAL CODES.
- ALL SHUT-OFF OR BALANCING VALVES TO PLUMBING ROUTED IN PIPE CHASES SHALL BE ACCESSIBLE FROM CEILING AREA OR ACCESS DOORS PROVIDED IN WALL.
- PROVIDE FINAL CONNECTIONS FOR ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. PROVIDE ALL REQUIRED SHUT-OFFS, BACKFLOW PREVENTERS, PRESSURE REGULATORS, AND CONDENSATE DRAINS AS REQUIRED BY LOCAL CODES FOR COMPLETE EQUIPMENT INSTALLATION. CONSULT EQUIPMENT SUPPLIER OR OWNER FOR ADDITIONAL FINAL CONNECTION REQUIREMENTS NOT SHOWN ON THESE DRAWINGS.
- CONTRACTOR TO FULLY INVESTIGATE ALL EXISTING PIPING TO REMAIN TO INSURE EXISTING PIPING IS IN GOOD REPAIR IF ANY EXISTING PIPING IS FOUND TO BE DAMAGED REPLACE WITH LIKE.

PLUMBING ABBREVIATIONS

AD	AREA ORAN. ACCESS DOOR	IE	INVERT ELEVATION
AFC	ABOVE FINISH CEILING	LP	LIQUIFIED PETROLEUM
AFG	ABOVE FINISH GRADE	MBH	1000 BTU PER HOUR
AHU	AIR HANDLING UNIT	N/A	NOT APPLICABLE
BFP	BACKFLOW PREVENTER	ORD	OVERFLOW ROOF DRAIN
BOP	BOTTOM OF PIPE	OST	STORM OVERFLOW
BOS	BOTTOM OF STRUCTURE	PD	PUMP DISCHARGE
CD	CONDENSATE	PIV	POST INDICATOR VALVE
CO	CLEANOUT	PRV	PRESSURE REDUCING VALVE
CW	DOMESTIC COLD WATER	REV	REVISION
DD	DESIGN DRAWING	RPM	REVOLUTIONS PER MINUTE
DN	DESIGN	RTU	ROOF TOP UNIT
ETR	EXISTING TO REMAIN	SAN	SANITARY
EWC	ELECTRIC WATER COOLER	SCW	SOFT DOMESTIC COLD WATER
FCD	FLOOR CLEANOUT	SHW	SOFT DOMESTIC HOT WATER
FFA	FROM FLOOR ABOVE	SDHW	SOFT RECUR. HOT WATER
FP	FIRE PROTECTION	ST	STORM
FS	FLOOR SINK	TFA	TO FLOOR ABOVE
G	GAS (NATURAL)	TFB	TO FLOOR BELOW
GCO	GRADE CLEANOUT	TW	TEMPERED WATER
GPM	GALLONS PER MINUTE	UH	UNIT HEATER
HB	HOSE BIBB	V	VENT PIPE
HW	DOMESTIC HOT WATER	VTR	VENT THROUGH ROOF
HWR	HOT WATER RETURN	WCO	WALL CLEANOUT
HWS	HOT WATER SUPPLY	WH	WALL HYDRANT

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GATE VALVE		FLOOR DRAIN / AREA DRAIN
	CHECK VALVE		FLOOR SINK
	PRESSURE		ROOF DRAIN
	SOLENOID VALVE		OVERFLOW ROOF DRAIN
	GLOBE VALVE (STRAIGHT PATTERN)		HOT WATER RECIRCULATION PUMP
	BUTTERFLY VALVE		PLUMBING VENT THRU ROOF
	BALL VALVE		POINT OF CONNECTION (CONNECT NEW TO EXISTING)
	GAS COCK		PLUMBING EQUIPMENT DESIGNATION
	PLUG VALVE		PLUMBING RISER OR DETAIL DESIGNATION
	FLOOR CLEAN OUT		SANITARY SEWER PIPING
	WALL CLEAN OUT		STORM SEWER PIPING
	CLEAN OUT		VENT PIPING
	HOSE BIBB		COLD WATER PIPING
	FREEZE PROOF WALL HYDRANT		HOT WATER PIPING
	ELBOW DOWN		HOT WATER RECIRCULATING PIPING
	ELBOW UP		FILTERED WATER PIPING
	TEE UP		GAS PIPING
	TEE DOWN		CONDENSATE PIPING
	STRAINER		CAP

WATER HAMMER ARRESTOR SCHEDULE

SHOCK ARRESTORS/SHOCK ABSORBERS/WATER HAMMER ARRESTERS SELECTION TABLES (SIOUX CITY 650 SERIES ARRESTOR MODEL NUMBERS USED AS GUIDE; OTHER MANUFACTURER'S ARRESTERS ARE ACCEPTABLE.)

REFER TO MANUFACTURER'S INSTALLATION RECOMMENDATIONS FOR LOCATIONS OF SHOCK ARRESTERS.

TABLE 1

THIS TABLE INDICATES THE FIXTURE UNIT WEIGHTS FOR MOST POPULAR PLUMBING FIXTURES. CERTAIN LOCAL CODES MAY VARY AND SHOULD BE REVIEWED PRIOR TO USING TABLE 1.

FIXTURE	TYPE OF SUPPLY CONTROL	WEIGHT IN FIXTURE UNITS			
		C.W.	H.W.	C.W.	H.W.
WATER CLOSET	FLUSH VALVE	10	-	6	-
WATER CLOSET	FLUSH TANK	5	-	3	-
PEDESTAL URINAL	FLUSH VALVE	10	-	-	-
STALL OR WALL URINAL	FLUSH VALVE	5	-	-	-
STALL OR WALL URINAL	FLUSH TANK	3	-	-	-
LAVATORY	FAUCET	1 1/2	1 1/2	1	1
BATHROOM	FAUCET	2	3	1 1/2	1 1/2
	SHOWER HEAD	2	3	1	2
	MIXING VALVE	-	-	8	3
BATHROOM GROUP	FLUSH VALVE CLOSET	-	-	6	3
BATHROOM GROUP	FLUSH TANK CLOSET	-	-	-	-
SEPARATE SHOWER	MIXING VALVE	-	-	1	2
SEPARATE SINK	FAUCET	3	3	-	-
LAUNDRY (1-3)	FAUCET	-	-	3	3
COMBINATION FIXTURE	FAUCET	-	-	3	3

TABLE 2

THIS TABLE INDICATES FIXTURE UNIT RATINGS FOR P.D.I. CERTIFIED WATER HAMMER ARRESTOR CATEGORIES AND THE CORRESPONDING SMITH HYDROTOL FOR EACH CATEGORY. WHERE SEVERAL FIXTURES ARE INSTALLED IN A BRANCH LINE, ONLY ONE FIXTURE VALUE AT A TIME WILL BE CLOSED. TABLE 2 TAKES INTO CONSIDERATION OTHER DESIGN FACTORS INCLUDING THE SIMULTANEOUS USAGE OF ONE OR MORE FIXTURES, PIPE SIZE, LENGTH, FLOW PRESSURE AND VELOCITY. THEREFORE, THIS METHOD OFFERS A SIMPLE FAST DETERMINATION OF THE PROPER SIZE WATER HAMMER ARRESTOR FOR A GIVEN BATTERY OF PLUMBING FIXTURES.

P.D.I. SYMBOLS HYDROTOL	A	B	C	D	E	F
	1-11	12-32	33-60	61-113	114-154	155-330

NOTE: WHEN WATER PRESSURE IN LINE EXCEEDS 65psi, SPECIFY THE NEXT LARGER HYDROTOL.

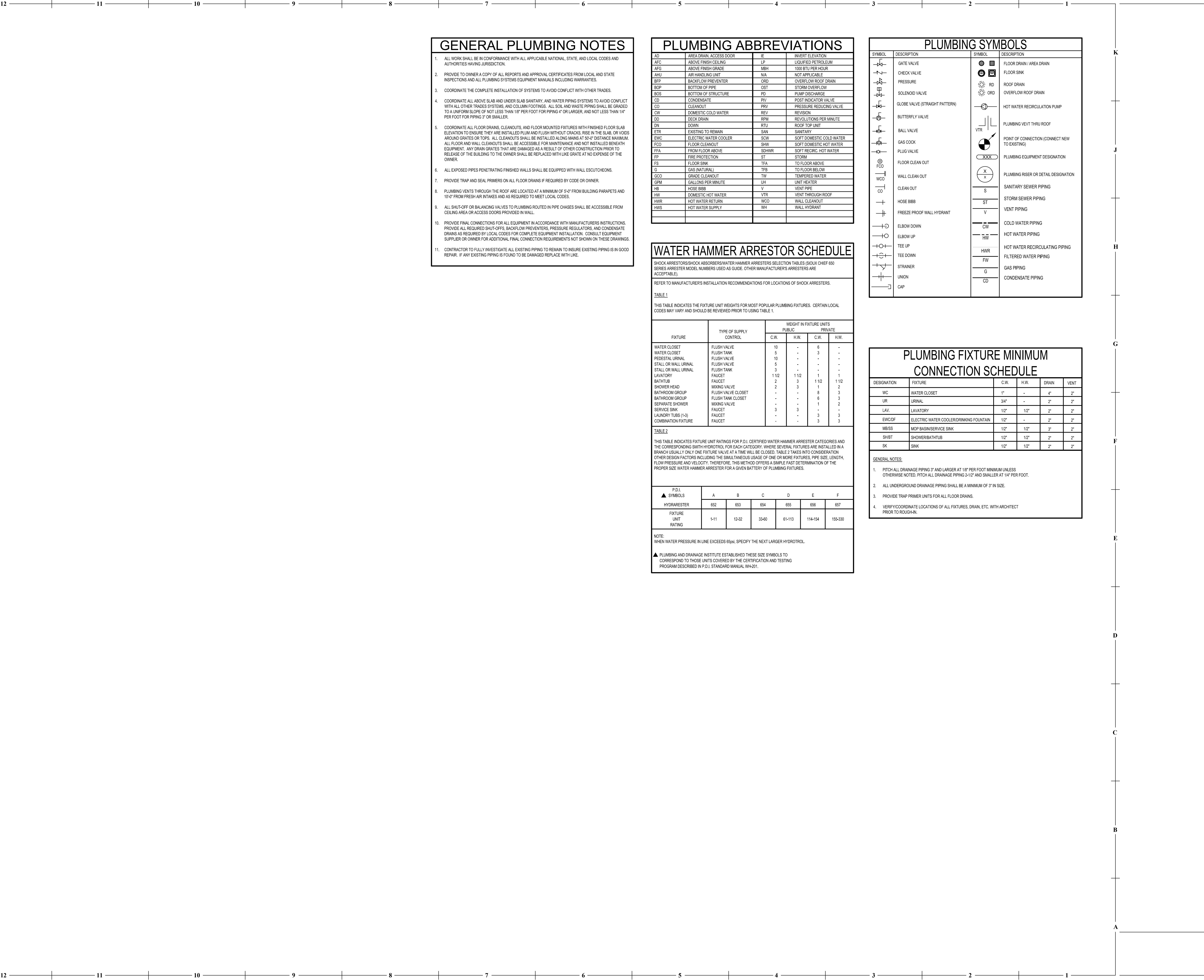
▲ PLUMBING AND DRAINAGE INSTITUTE ESTABLISHED THESE SIZE SYMBOLS TO CORRESPOND TO THOSE UNITS COVERED BY THE CERTIFICATION AND TESTING PROGRAM DESCRIBED IN P.D.I. STANDARD MANUAL WH-201.

PLUMBING FIXTURE MINIMUM CONNECTION SCHEDULE

DESIGNATION	FIXTURE	C.W.	H.W.	DRAIN	VENT
WC	WATER CLOSET	1"	-	4"	2"
UR	URINAL	3/4"	-	2"	2"
LAV.	LAVATORY	1/2"	1/2"	2"	2"
EW/CDF	ELECTRIC WATER COOLER/DRINKING FOUNTAIN	1/2"	-	2"	2"
MB/SS	MOP BASIN/SERVICE SINK	1/2"	1/2"	3"	2"
SHBT	SHOWER/BATHTUB	1/2"	1/2"	2"	2"
SK	SINK	1/2"	1/2"	2"	2"

GENERAL NOTES:

- PITCH ALL DRAINAGE PIPING 3" AND LARGER AT 1:8 PER FOOT MINIMUM UNLESS OTHERWISE NOTED. PITCH ALL DRAINAGE PIPING 2:12 AND SMALLER AT 1:4 PER FOOT.
- ALL UNDERGROUND DRAINAGE PIPING SHALL BE A MINIMUM OF 3" IN SIZE.
- PROVIDE TRAP PRIMER UNITS FOR ALL FLOOR DRAINS.
- VERIFY/COORDINATE LOCATIONS OF ALL FIXTURES, DRAIN, ETC. WITH ARCHITECT PRIOR TO ROUGH-IN.



REECE NICHOLS TENANT IMPROVEMENTS

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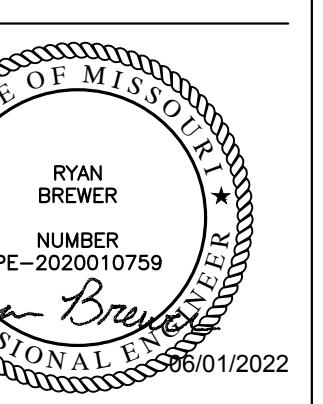
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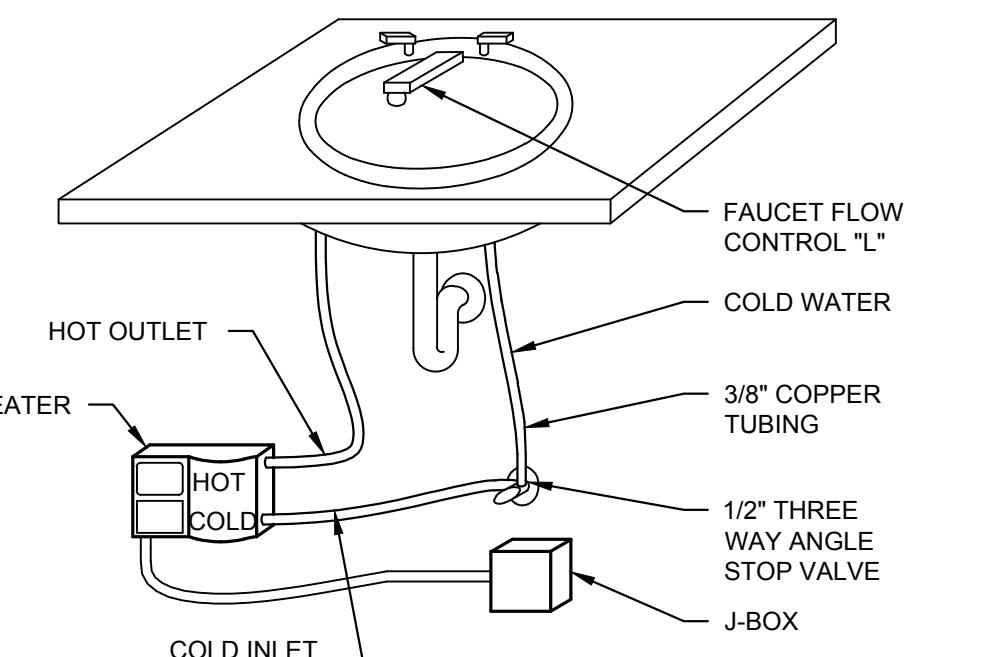
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PLUMBING DETAILS
& SCHEDULES

PLUMBING FIXTURE SCHEDULE								
TAG	MANUFACTURER	MODEL	DRAIN	VENT	COLD WATER	HOT WATER	ELECTRICAL REQUIREMENTS	DESCRIPTION
EWC	ELKAY	LBWDC00	2"	1-1/2"	1/2"	---	115V, 260 WATTS	IN-WALL COMMERCIAL FILTERED WATER DISPENSER.
EWH	EEMAX	EMT4	---	---	1/2"	1/2"	120V, 12A	POINT-OF-USE WATER HEATER
IMB	SIOUX CHIEF	696	---	---	1/2"	---	---	ICE MAKER BOX WITH SHUTOFF AND MINI ARRESTOR.
SK1	ELKAY	LRAD202265PD	2"	1-1/2"	1/2"	1/2"	120V 1/3HP	STAINLESS STEEL DROP-IN ADA SINK WITH LKGT1041 SINGLE HOLE FAUCET WITH PULL-OUT SPRAY. PROVIDE WITH ASSE 1070 COMPLIANT MIXING VALVE AND INSINKERATOR BADGER 1 GARBAGE DISPOSER.

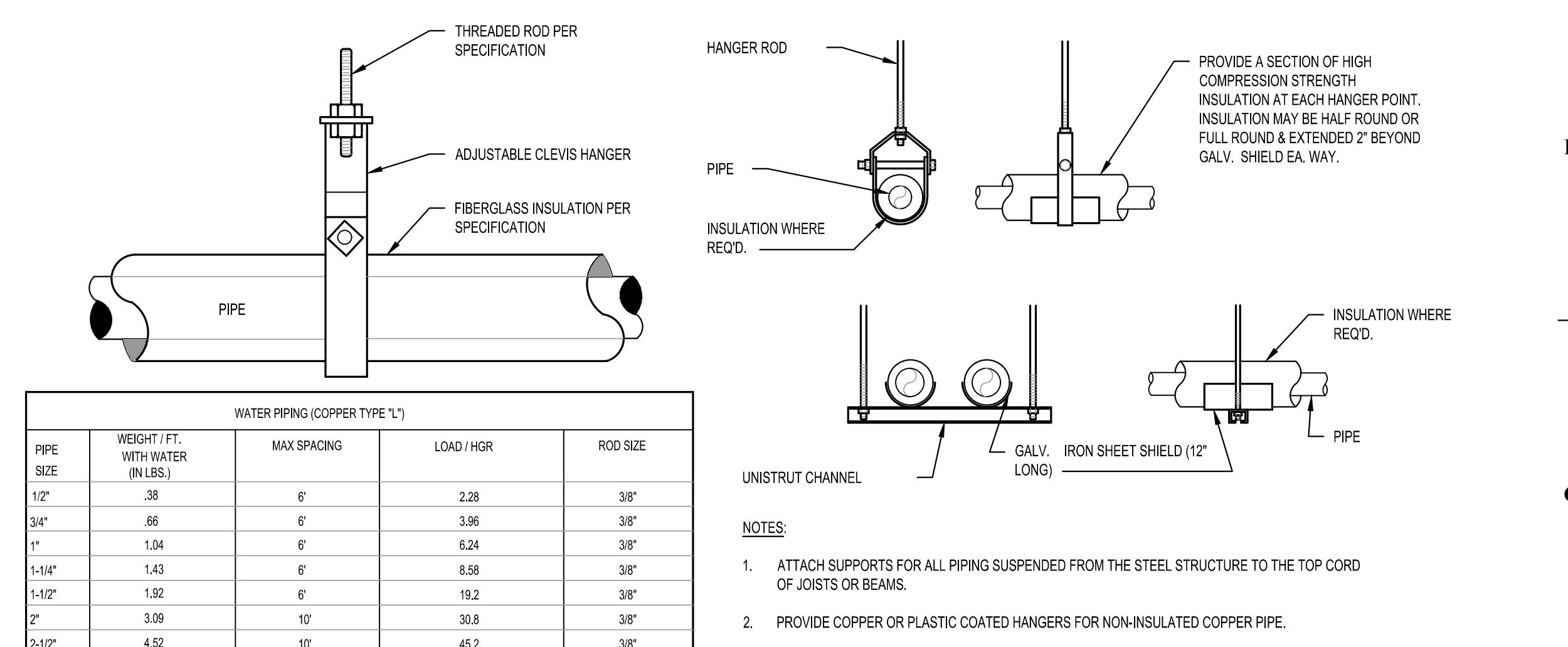
NOTES:

1. FIXTURES SPECIFIED IN SCHEDULE ARE A BASIS OF DESIGN. CONFIRM EXACT FIXTURE MODELS WITH OWNER PRIOR TO PURCHASING.



5 INSTANTANEOUS WATER HEATER

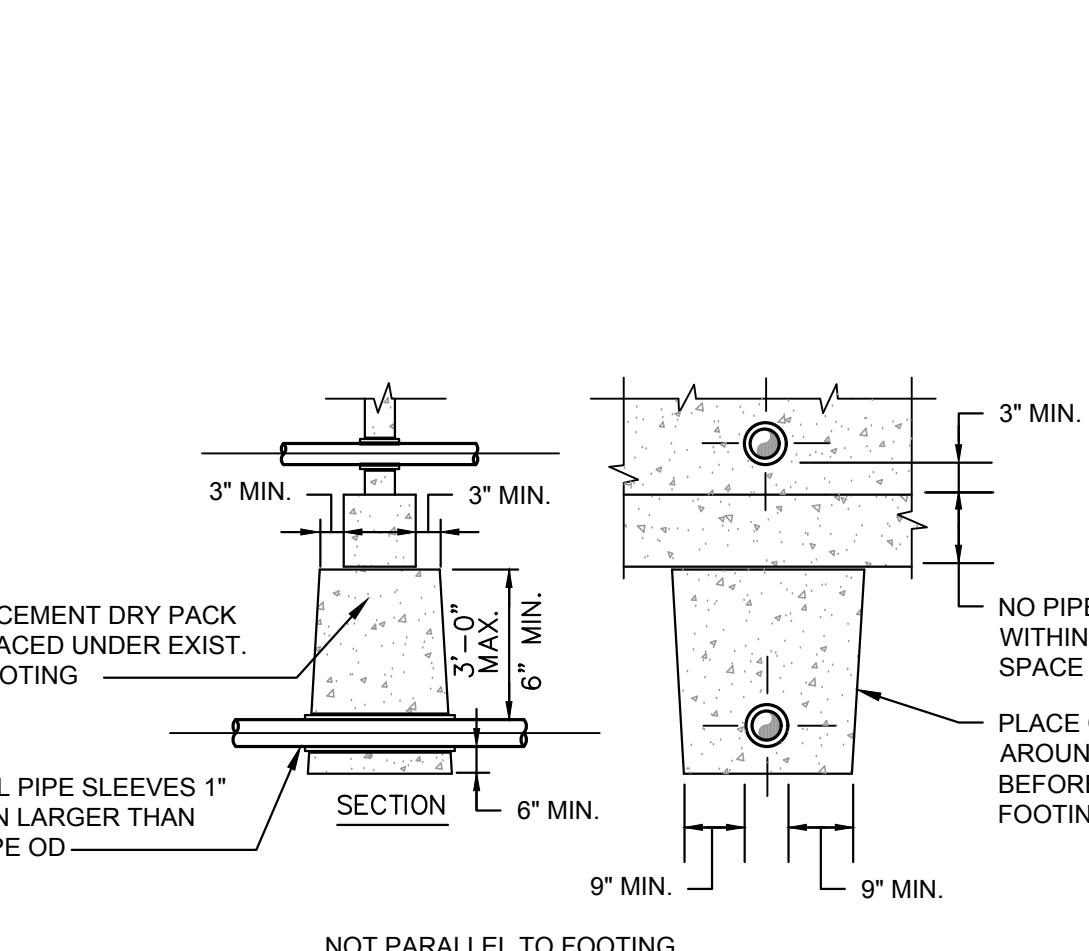
NOT TO SCALE



WATER PIPING (COPPER TYPE L')				
PIPE SIZE	WEIGHT / FT. WITH WATER (IN LBS.)	MAX SPACING	LOAD / HGR	ROD SIZE
1/2"	.38	6'	2.28	3/8"
3/4"	.66	6'	3.06	3/8"
1"	1.04	6'	6.24	3/8"
1-1/4"	1.43	6'	8.58	3/8"
1-1/2"	1.92	6'	19.2	3/8"
2"	3.09	10'	30.8	3/8"
2-1/2"	4.52	10'	45.2	3/8"

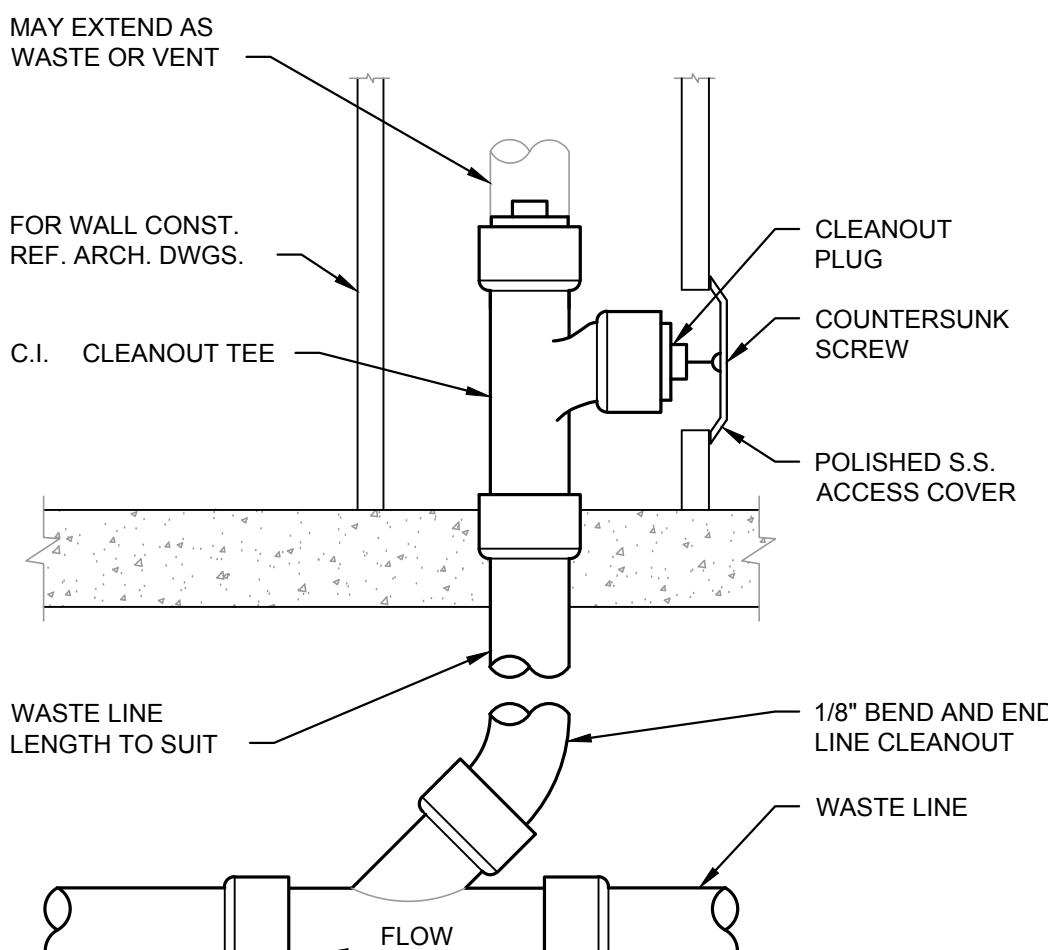
1 PIPE HANGING DETAIL

SCALE: NTS



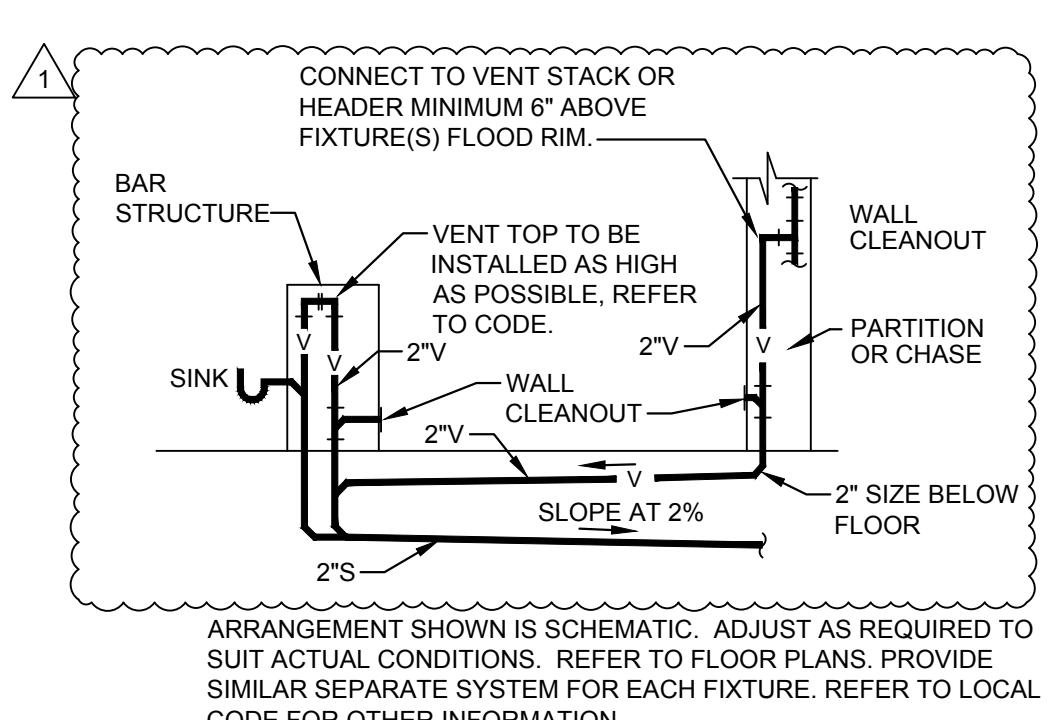
2 PIPE AT CONCRETE FOOTING

NOT TO SCALE



3 WALL CLEANOUT

NOT TO SCALE



4 ISLAND FIXTURE VENTING

NOT TO SCALE



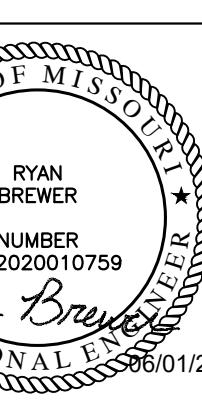
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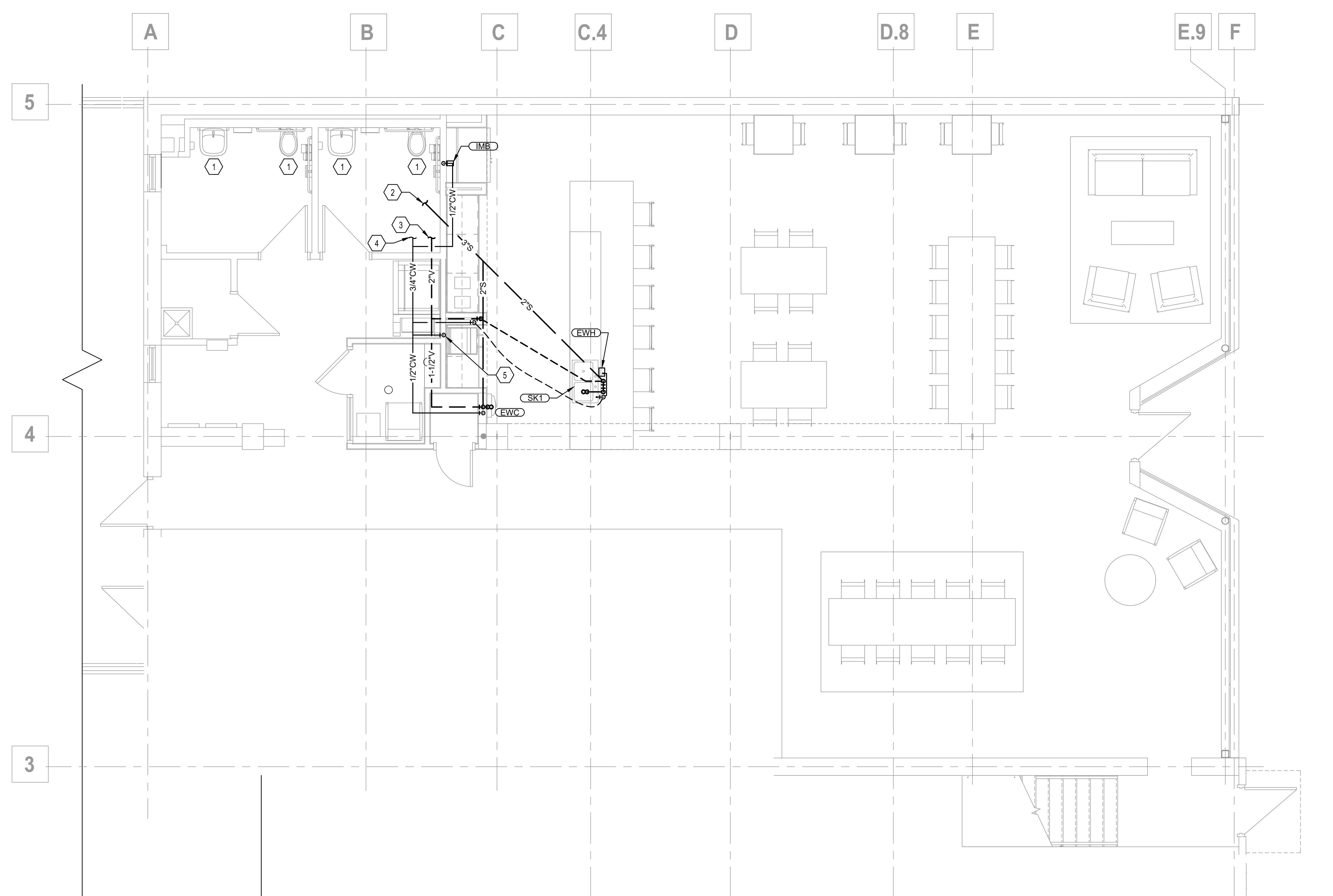
GENERAL NOTES (NOT ALL NOTES APPLY)

1. REFERENCE SHEET P101 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. ALL SHUT-OFF OR BALANCING VALVES TO PLUMBING ROUTED IN PIPE CHASES SHALL BE ACCESSIBLE FROM CEILING AREA OR ACCESS DOORS PROVIDED IN WALL.
3. ALL EXPOSED PIPES PENETRATING FINISHED WALLS SHALL BE EQUipped WITH EXPOSED ESCUTCHEONS.
4. PROVIDE ALL CONNECTIONS TO ALL EQUIPMENT SPECIFIED IN PLUMBING FIXTURES AND EQUIPMENT SCHEDULES ON THESE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. PROVIDE ALL REQUIRED SHUT-OFFS, BACKFLOW PREVENTERS, PRESSURE REGULATORS, AND CONDENSATE DRAINS INDICATED ON PLUMBING SCHEDULES AND AS REQUIRED BY LOCAL CODES FOR EQUIPMENT INSTALLATION. CONSULT EQUIPMENT SUPPLIER OR OWNER FOR ADDITIONAL FINAL CONNECTION REQUIREMENTS NOT SHOWN ON THESE DRAWINGS.

KEYED NOTES:

1. EXISTING PLUMBING FIXTURE TO REMAIN.
2. CONNECT NEW SANITARY PIPING INTO EXISTING SANITARY PIPING IN THIS AREA. FIELD VERIFY EXACT CONNECTION POINT, LINE SIZE, MATERIAL, AND AVAILABLE INVERT.
3. CONNECT NEW VENT PIPING INTO EXISTING VENT PIPING IN THIS AREA. FIELD VERIFY EXACT CONNECTION POINT, LINE SIZE, AND MATERIAL.
4. CONNECT NEW COLD WATER PIPING INTO EXISTING COLD WATER PIPING IN THIS AREA. FIELD VERIFY EXACT CONNECTION POINT, LINE SIZE, AND MATERIAL.
5. ROUTE 1/2" CW DOWN IN WALL, TURN PIPING OUT OF WALL AND TERMINATE WITH SHUTOFF VALVE FOR CONNECTION TO COFFEE MAKER.

PERMIT DOCUMENTS



1 PLUMBINGPLAN

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

PLUMBING PLAN

ELECTRICAL ABBREVIATIONS

AC	ALTERNATING CURRENT	KCM	THOUSAND CIRCULAR MILS
AHU	AIR HANDLING UNIT	KVA	KILOVOLT-AMPERES (1000 VOLT-AMPERES)
A. OR AMPS.	AMPERES	KV	KILOVOLT (1000 VOLTS)
AFC	ABOVE FINISH COUNTER	KW	KILOWATTS (1000 WATTS)
AFCI	ARC FAULT CIRCUIT INTERRUPTER	KWH	KILOWATT HOURS
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUGS ONLY
		MCB	MAIN CIRCUIT BREAKER
AIC	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)	MW	MICROWAVE (COORD MTG HT W/ ARCHITECT)
ATS	AUTOMATIC TRANSFER SWITCH	NIC	NOT IN CONTRACT
BCP	BUILDING CONTROL POWER (FOR HVAC/BUILDING CONTROLS)	NEC	NATIONAL ELECTRICAL CODE
		NC	NORMALLY CLOSED
BTC	BRANCH TO CONNECTION POINT AND CONNECT EQUIPMENT	NO	NORMALLY OPEN
BTF	BRANCH TO FIXTURE, FURNISH AND INSTALL RECEPTACLE	NF	NOT FUSED
C	CONDUIT ("E.C." IS EMPTY CONDUIT)	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CF	CEILING FAN	OFOI	OWNER FURNISHED OWNER INSTALLED
CM	COFFEE MAKER	PNL	PANEL
CT	COOKTOP	PH OR Ø	PHASE
D	DEDICATED CIRCUIT	P	POLE
DCO	DUPLEX CONVIENCE OUTLET	PVC	POLYVINYL CHLORIDE
DP	DISPOSER	RF	REFRIGERATOR
DW	DISHWASHER	RG	RANGE
DY	DRYER	SPD	SURGE PROTECTIVE DEVICE
EMT	ELETICAL METALLIC TUBING	T	TAMPERPROOF RECEPTACLE
EF	EXHAUST FAN	TC	TIMECLOCK
ER	EXISTING TO BE REMOVED	TTB	TELEPHONE TERMINAL BOARD
ETP	ELECTRONIC TRAP PRIMER	TV	TELEVISION RECEPTACLE
EWC	ELECTRIC WATER COOLER (WATER-COOLED DRINKING FOUNTAIN)	UC	UNDERCOUNTER REFRIGERATOR (OR ICE MACHINE)
EX	EXISTING	UF	UNDERFLOOR
FLEX	FLEXIBLE CONDUIT	UG	UNDERGROUND
FCU	FAN COIL UNIT	UL	UNDERWRITERS LABORATORIES
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	U.N.O.	UNLESS NOTED OTHERWISE
GFI	GROUND FAULT INTERRUPTER	V	VOLTS
GFIP	GROUND FAULT INTERRUPTER PROTECTED	VA	VOLT-AMPERES
GRD	GROUND	VD	VENDING MACHINE (24" AFF)
H	HORIZONTAL MOUNT (RECEPTACLE)	VFD	VARIABLE FREQUENCY DRIVE
HD	VENTILATION HOOD	W	WATTS
HP	HORSEPOWER	WA	WASHER
HT	HEAT TRACE POWER (PROVIDE W/ 20A/1P GFI BREAKER)	WD	WARMING DRAWER
HVAC	HEATING, VENTILATING, & AIR CONDITIONING	WO	WALL OVEN
HZ	HERTZ	WP	WEATHERPROOF
IG	ISOLATED GROUND (DUPLEX RECEPTS. - NEMA 5-20RIG)	WP/WR	WEATHERPROOF/WEATHER RESISTANT
KA	KILOAMPERE (1000 AMPERES)	W/UNIT	DISCONNECT PROVIDED WITH UNIT

GENERAL ELECTRICAL NOTES

1. DO NOT SCALE FROM THESE DRAWINGS.
2. REFER TO ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES.
3. COORDINATE EACH LIGHT FIXTURE INSTALLATION(S) W/ ACTUAL CEILING TO BE FURNISHED.
4. ALL BRANCH CIRCUITS W/O CONDUCTOR & CONDUIT INDICATIONS SHALL BE ROUTED TO 20A-1P BREAKER W/ 2#12,1#12EG,3/4"C.
5. INDIVIDUAL COMPONENTS OF THIS LIGHT FIXTURE SCHEDULE SHALL NOT BE INTERPRETED SEPARATELY FROM THE ENTIRE SCHEDULE. THAT IS, THE ENTIRE FIXTURE SPECIFICATION INCLUDING ALL COLUMNS IN THE LIGHT FIXTURE SCHEDULE AND ALL SUPPORTING INFORMATION IN THESE DOCUMENTS. ANY CONFLICT BETWEEN MODEL NUMBERS AND OTHER COLUMNS OF THE SCHEDULE SHALL BE IDENTIFIED IN WRITING TO THE ARCHITECT. IN THE CASE OF A CONFLICT, CONTRACTOR SHALL BASE BID ON THE MORE EXPENSIVE INTERPRETATION.
6. ALL CIRCUITS (LIGHTING AND POWER) SHALL BE PROVIDED WITH DEDICATED NEUTRALS UNLESS NOTED OTHERWISE. WHERE NEUTRALS ARE INDICATED TO BE SHARED, MULTIWIRE BRANCH CIRCUITS SHALL BE PROVIDED WITH 2P OR 3P BREAKERS AS REQUIRED PER NEC210.4.
7. ELECTRICAL EQUIPMENT (PANELBOARDS, TRANSFORMERS, DISTRIBUTION EQUIPMENT, ETC.) IS SHOWN TO SCALE ON THE FLOOR PLANS.
8. SWITCHBOARDS SHOWN ON PLANS WITH BACKS AGAINST A WALL SHALL BE FRONT ACCESSIBLE ONLY. EQUIPMENT REQUIRING REAR ACCESS WILL NOT BE ACCEPTABLE.
9. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE EQUIPMENT THAT WILL FIT IN THE SPACES ALLOWED FOR ON THE PLANS AND COMPLY WITH ALL THE CODE REQUIRED CLEARANCES.
10. IF THE ELECTRICAL CONTRACTOR PROVIDES EQUIPMENT THAT DOES NOT FIT IN THE SPACES INDICATED, OR THAT WILL NOT LEAVE THE REQUIRED CODE CLEARANCES, OR EQUIPMENT REQUIRING CHANGES IN THE DESIGN INDICATED ON THESE DRAWINGS, HE SHALL PAY ALL COSTS INVOLVED TO CORRECT THE INSTALLATION.
11. ELECTRICAL CONTRACTOR TO LABEL ALL DEVICES (RECEPTACLES, SWITCHES, PANELBOARDS, DISCONNECTS, ETC.) WITH CIRCUIT NUMBER AND PANELBOARD DESIGNATION. RECEPTACLES, SWITCHES, AND SIMILAR DEVICES TO HAVE PRE-PRINTED, SELF ADHESIVE LABEL.
12. PANELBOARDS, DISCONNECT SWITCHES, AND SIMILAR DEVICES TO HAVE ENGRAVED, SELF-ADHESIVE, LAMINATED ACRYLIC LABEL (BLACK W/ WHITE LETTERING).

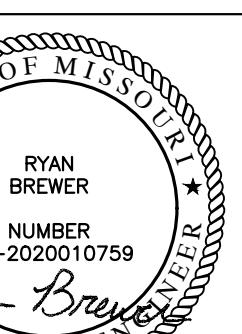
ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING	SYMBOL	DESCRIPTION	MOUNTING	SYMBOL	DESCRIPTION	MOUNTING
O _A	LIGHT FIXTURE (LETTER INDICATES FIXTURE TYPE - SEE SCHEDULE)	CEILING	⊖	20A - 125V/2P/3W GROUNDING SIMPLEX RECEPTACLE (NEMA 5-20R)	WALL - 15" AFF	'LA'	PANELBOARD 208Y/120V, 3Ø, 4W (REFERENCE PANEL SCHEDULES)	
⊖ _A	DIRECTIONAL/WALLWASHER LIGHT FIXTURE (LETTER INDICATES FIXTURE TYPE - SEE SCHEDULE)	CEILING	⊖	20A - 125V/2P/3W GROUNDING DUPLEX RECEPTACLE (NEMA 5-20R)	WALL - 15" AFF U.N.O.	'HA'	PANELBOARD 480Y/277V, 3Ø, 4W (REFERENCE PANEL SCHEDULES)	
IO _A	LIGHT FIXTURE (LETTER INDICATES FIXTURE TYPE - SEE SCHEDULE)	WALL	⊖	20A - 125V/2P/3W GROUNDING DUPLEX RECEPTACLE (NEMA 5-20R)	WALL - 6" ABOVE FINISHED COUNTER U.N.O.	'DPA'	DISTRIBUTION PANEL (REFERENCE PANEL SCHEDULES)	
⊖ A ⊖ _A	LIGHT FIXTURE ON EMERGENCY (LETTER INDICATES FIXTURE TYPE - SEE SCHEDULE)	CEILING/WALL	⊖	20A - 125V/2P/3W GROUNDING QUAD-PLEX RECEPT. (NEMA 5-20R)	WALL - 15" AFF	'TR-LA'	DRY TYPE TRANSFORMER	
- A	FLUORESCENT STRIP LIGHT FIXTURE (LETTER INDICATES FIXTURE TYPE - SEE SCHEDULE)	CEILING/SUSPENDED	⊖	SPLIT RECEPTACLE. TOP OUTLET WIRED HOT. BOTTOM OUTLET SWITCHED. (NEMA 5-20R)	WALL - 15" AFF	∅	JUNCTION BOX	WALL - AS NOTED CEILING
□ A □ A	FLUORESCENT LIGHT FIXTURE (LETTER INDICATES FIXTURE TYPE - SEE SCHEDULE)	CEILING	⊖ ⊖	SPECIAL PURPOSE OUTLET (NEMA CONFIG. AS NOTED)	WALL - 15" AFF U.N.O./CEILING	60/40	NON-FUSED DISCONNECT SWITCH U.N.O. (E.G. 60/40 INDIC. 60A SWITCH/40A FUSES)	
□ A	FLUORESCENT LIGHT FIXTURE (LETTER INDICATES FIXTURE TYPE - SEE SCHEDULE)	WALL	⊖	20A - 125V/2P/3W GROUNDING SIMPLEX RECEPTACLE (NEMA 5-20R)	FLOOR - FLUSH	☒	MOTOR STARTER	
▨ A ▨ A	FLUORESCENT LIGHT FIXTURE ON EMERGENCY (LETTER INDICATES FIXTURE TYPE - SEE SCHEDULE)	CEILING	⊖	20A - 125V/2P/3W GROUNDING DUPLEX RECEPTACLE (NEMA 5-20R)	FLOOR - FLUSH	☒	COMBINATION MOTOR STARTER/ DISCONNECT SWITCH	
▨ A	FLUORESCENT LIGHT FIXTURE ON EMERGENCY (LETTER INDICATES FIXTURE TYPE - SEE SCHEDULE)	WALL	⊖	20A - 125V/2P/3W GROUNDING QUADPLEX RECEPT. (NEMA 5-20R)	FLOOR - FLUSH	☒	ENCLOSED CIRCUIT BREAKER	
▨▨ A	FLUORESCENT STRIP LIGHT FIXTURE ON EMERGENCY (LETTER INDICATES FIXTURE TYPE - SEE SCHEDULE)	CEILING/SUSPENDED	⊖	20A - 125V/2P/3W GROUNDING DUPLEX RECEPTACLE (NEMA 5-20R)	CEILING - FLUSH	S ^P _M	MANUAL MOTOR SWITCH ("P" INDICATES PILOT LIGHT)	
✚ XB	BATTERY PACK EMERGENCY TWO HEAD LIGHT FIXTURE (LETTER INDICATES FIXTURE TYPE - SEE SCHEDULE)	WALL - 9'-0" AFF	■■■■■	MULTI-OUTLET ASSEMBLY		○/2	MOTOR (# INDICATES HORSEPOWER)	
⊖ XA ⊖ _A	EXIT LIGHT (ARROW(S) AS INDICATED, SHADE INDICATES FACE, LETTER INDICATES FIXTURE TYPE - SEE SCHEDULE)	CEILING/WALL	PK1	POKE-THRU, 4" CORE. WIREMOLD RC4 SERIES W/ COM75 ADAPTER, OR EQUAL, W/ 2-DUPLEX RECEPTS & 4-RJ45 DATA/COMM PORTS - COORD. W/ LV CONSULTANT.	FLOOR - FLUSH	—	CONDUIT IN OR UNDER FLOOR/GRADE	
S	SINGLE POLE SWITCH 20A (120/277V)	(2)	WALL - 48" AFF	PK2	POKE-THRU, 4" CORE. WIREMOLD 4FF SERIES OR EQUAL, FOR POWER AND DATA FURNITURE FEED, DATA FEED TO ACCOMMODATE MINIMUM OF 10 CAT6 CABLES.	FLOOR - FLUSH	—	CONDUIT EXPOSED
S ₃	THREE WAY SWITCH 20A (120/277V)	(2)	WALL - 48" AFF					
S ₄	FOUR WAY SWITCH 20A (120/277V)	(2)	WALL - 48" AFF	PK3	POKE-THRU, 3" CORE. WIREMOLD RC7AFF SERIES W/ COM50 ADAPTOR OR EQUAL, FOR POWER AND DATA FURN. FEED (TYP. SINGLE SERVICE).	FLOOR - FLUSH	●	EQUIPMENT CONNECTION
S _K	KEY OPERATED SWITCH	(2)	WALL - 48" AFF	PK4	POKE-THRU, 3" CORE. WIREMOLD RC9AM2 SERIES OR EQUAL, FOR LARGE CAPACITY DATA FURNITURE FEED, TO ACCOMMODATE MINIMUM OF 20 CAT6 CABLES.	FLOOR - FLUSH	—	CONDUIT IN CEILING OR WALL
S _{DS}	DOOR SWITCH		WALL					
S _P	PILOT LIGHT SWITCH	(2)	WALL - 48" AFF	PK5	POKE-THRU, 6" CORE. WIREMOLD 6ATCFF SERIES OR EQUAL, FOR POWER AND DATA FURNITURE FEED, TO ACCOMMODATE MINIMUM OF 20 CAT6 CABLES.	FLOOR - FLUSH	☒	SECURITY CAMERA OUTLET (FIXED)
S _{TS}	TIME SWITCH		WALL				DC	SECURITY DOOR STATUS CONTACTS
H	DIMMER SWITCH (SIZE AS REQUIRED)	(2)	WALL - 48" AFF	PK6	POKE-THRU, 6" CORE. WIREMOLD 6ATCPAV SERIES OR EQUAL, A/V STYLE POKE-THRU. COORDINATE POKE- THRU REQUIREMENTS W/ LV CONSULTANT.	FLOOR - FLUSH	EL	ELECTRICAL LOCK
⊖ X ⊖ _X	OCCUPANCY SENSOR/SENSOR EQUIPMENT (LETTER INDICATES SENSOR TYPE - SEE SCHEDULE)	(2)	CEILING/WALL				●	PUSH BUTTON
HLV	LOW-VOLTAGE CONTROL STATION	(2)	WALL - 48" AFF	FB1	WIREMOLD RFB4 SERIES FLOOR BOX, OR EQUAL, W/ 2-DUPLEX RECEPTS, COORDINATE DATA/COMM REQUIREMENTS W/ LV CONSULTANT.	FLOOR - FLUSH	—	—
PC	PHOTOELECTRIC CELL							
CR	CARD READER (VERIFY JUNCTION BOX REQUIREMENTS)			FB2	WIREMOLD 880S SERIES FLOOR BOX, OR EQUAL, 2 OR 3 GANG BOXES AS REQUIRED. COORDINATE DATA/COMM REQUIREMENTS W/ LV CONSULTANT.	FLOOR - FLUSH	—	—
PP	POWER PACK	(2)	ACCESSIBLE CEILING					
▮	DATA, TELEPHONE, OR COMBO TELE/DATA OUTLET PROVIDE PULLSTRING IN CONDUIT TO ACCESSIBLE CEILING		WALL - 15" AFF	FB3	WIREMOLD 880S SERIES FLOOR BOX, OR EQUAL, FOR FURNITURE FEED. COORDINATE DATA/COMM REQUIREMENTS W/ LV CONSULTANT.	FLOOR - FLUSH	—	—
▮	DATA, TELEPHONE, OR COMBO TELE/DATA OUTLET PROVIDE PULLSTRING IN CONDUIT TO ACCESSIBLE CEILING		FLOOR					
TTB'	TELEPHONE TERMINAL BACKBOARD		WALL					
⌚	CLOCK OUTLET		WALL - AS NOTED OR REF. ARCH. DWGS.					
TV	TELEVISION OUTLET		WALL					
TV	TELEVISION OUTLET		FLOOR					
โส	SPEAKER OUTLET (# #) INDICATES TYPE ZONE		CEILING					

1 ALL ELECTRICAL SYMBOLS NOT NECESSARILY USED.

2 (a,b,c,...) INDICATES SWITCHING SCHEME TO RELATED FIXTURES.

LECTRICAL NOTES, SYMBOLS & ABBREVIATIONS

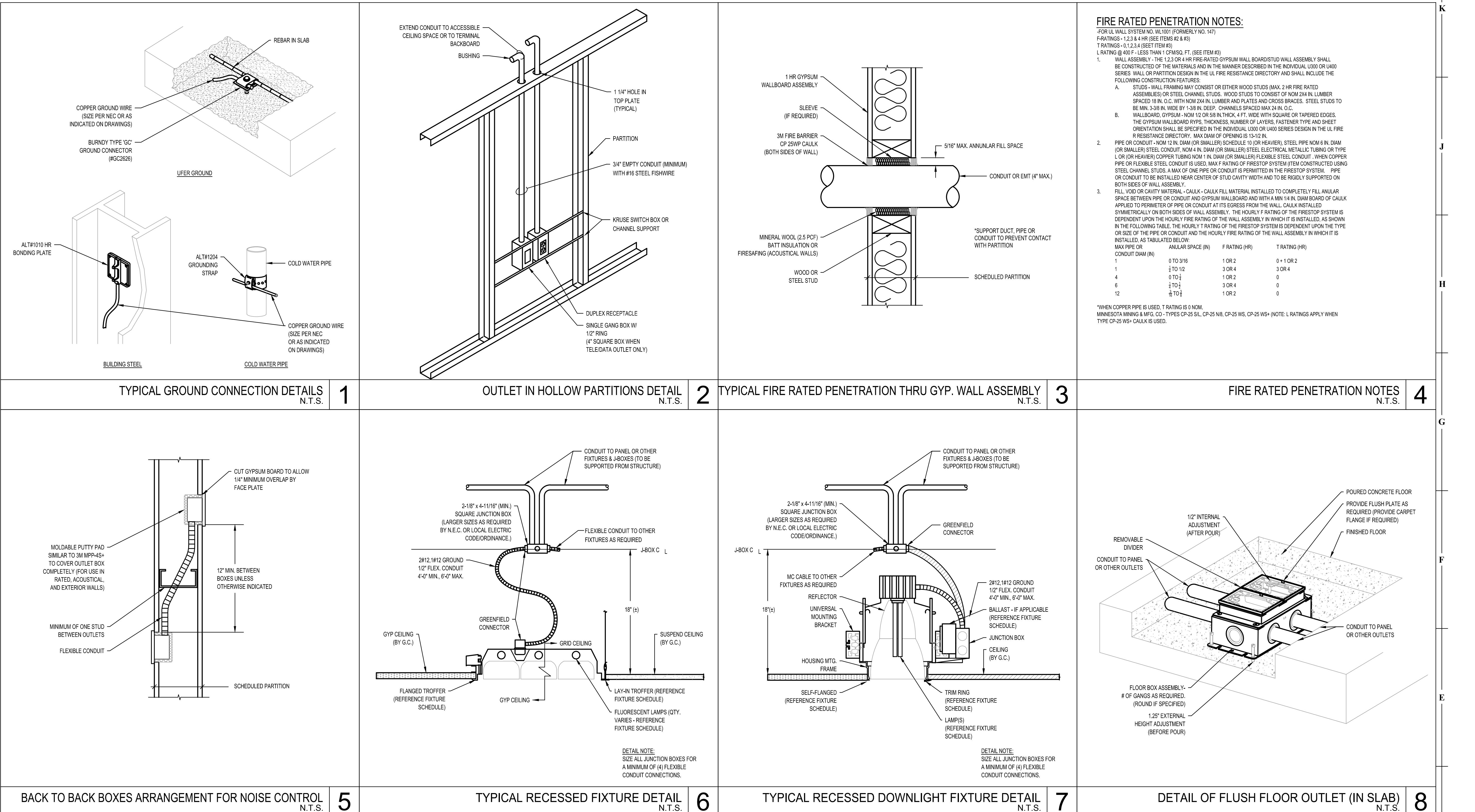


E102

ISSUE DATE: 01 JUNE, 2022

COLLINS WEBB #: 22046

ELECTRICAL
DETAILS



FIRE RATED PENETRATION NOTES:

FOR UL WALL SYSTEM NO. WL1001 (FORMERLY NO. 147)

F-RATINGS - 1, 2, 3 & 4 HR (SEE ITEMS #2 & #3)

T-RATINGS - 1, 2, 3 & 4 HR (SEE ITEM #3)

U-RATING - 600 FT. LESS THAN 1 CMUSO FT. (SEE ITEM #3)

1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALL BOARDED TO WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL UL OR DOB FOLLOWING CONSTRUCTION FEATURES.

A. STUDS - WALL FRAMING MAY CONSIST OF EIGHT WOOD STUDS OR 2 HR FIRE-RATED ASSEMBLIES OR STEEL STUDS. WOOD STUDS OR CONCRETE STUDS 2X4 IN. LUMBER SPACED 16 IN. O.C. OR 2X6 IN. LUMBER AND PLATES OR CROSS BRACES. STEEL STUDS TO BE MIN. 3.58 IN. WIDE BY 1.38 IN. DEEP CHANNELS SPACED MAX 24 IN. O.C.

B. WALLBOARD - GYPSUM - NOM 1/2 IN. DEEP IN THICK. 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE EDGES OF THE WALLBOARD SHALL BE FINISHED. THE FINISHES, FINISHES AND FINISHES ORIENTATION SHALL BE SPECIFIED IN THE INDIVIDUAL UL OR DOB FOR THE SPECIFIED SYSTEM.

C. FIRE BARRIER - THE FIRE BARRIER SHALL BE THE UL FIRE RESISTANCE DIRECTOR AND SHALL INCLUDE THE

MAX. DIAM. OF OPENING IS 13-1/2 IN.

PIPE OR CONDUIT - NOM 12 IN. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE 1/8 IN. DIAM.

OR FLEXIBLE METAL, ELECTRICAL METAL, TUBING OR TYPE

L OR (OR HEAVIER) COPPER TUBE NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT. WHEN COPPER

PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAX F-RATING OF PRESTOP SYSTEM ITEM CONSTRUCTED USING

PIPE OR CONDUIT IS MAX 1 OF ONE PIPE OR CONDUIT IS PERMITTED IN THE PRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED IN A TIGHT, STRAIGHT POSITION. CONDUIT TO BE INSTALLED ON BOTH SIDES OF WALL ASSEMBLY.

3. FIBER VOID OR CAVITY MATERIAL - CAULK OR MATERIAL INSTALLED TO COMPLETE THE MULIAR FIBER VOID OR CAVITY MATERIAL - CAULK OR MATERIAL INSTALLED TO COMPLETE THE MULIAR

PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH MAX 1/8 IN. DIAM BOARD OF CAULK

APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS FORSS FROM THE WALL. CAULK INSTALLED SYMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F-RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. AS SHOWN

IN THE TABLE BELOW, THE HOURLY F-RATING OF THE FIRESTOP SYSTEM DEPENDS UPON THE TYPE

OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS

INSTALLED. AS TABULATED BELOW.

MAX PIPE OR ANULAR SPACE (IN) F RATING (HR) T RATING (HR)

1 0 1/8 1 OR 2 1 OR 2

1 1/8 TO 1/2 3 OR 4 3 OR 4

4 0 1/2 1 OR 2 0

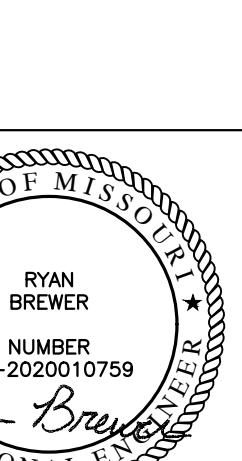
6 1/2 TO 1 3 OR 4 0

12 1 1/2 TO 1 1 OR 2 0

*WHEN COPPER PIPE IS USED, RATING IS 0 NOM.

MINNESOTA MINING & MFG. CO. - TYPES CP-25 SL, CP-25 N8, CP-25 WS (NOTE: L RATINGS APPLY WHEN

TYPE CP-25 WS+ CAULK IS USED.



E102

ISSUE DATE: 01 JUNE, 2022

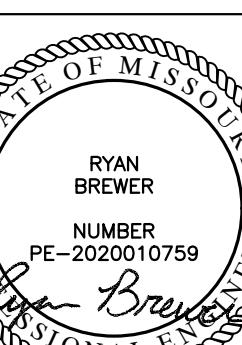
COLLINS WEBB #: 22046

ELECTRICAL
DETAILS

REECE NICHOLS TENANT IMPROVEMENTS

230 SW MAIN ST.
LEE'S SUMMIT, MO 64063

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REVISION DATES:



PROFESSIONAL SEAL

RYAN BREWER
NUMBER
PE-2020010759
Brewer
01/01/2022

ISSUE DATE:

01 JUNE, 2022

COLLINS WEBB #:

22046

E201
ELECTRICAL
1ST FLOOR
POWER PLAN

GENERAL NOTES (NOT ALL NOTES APPLY)

1. REFERENCE SHEET E101 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. COORDINATE MOUNTING HEIGHTS AND LOCATIONS FOR ALL DEVICES WITH ARCHITECT AND/OR INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
3. PROVIDE AND INSTALL 3/4" CONDUIT AND PULL STRINGS FROM TELEPHONE/DATA OUTLETS TO ABOVE ACCESSIBLE CEILING. VERIFY EXACT REQUIREMENTS WITH TELEPHONE EQUIPMENT SUPPLIER AND/OR TENANT.
4. ALL RECEPTACLES AND COVER PLATES TO BE STAINLESS STEEL.

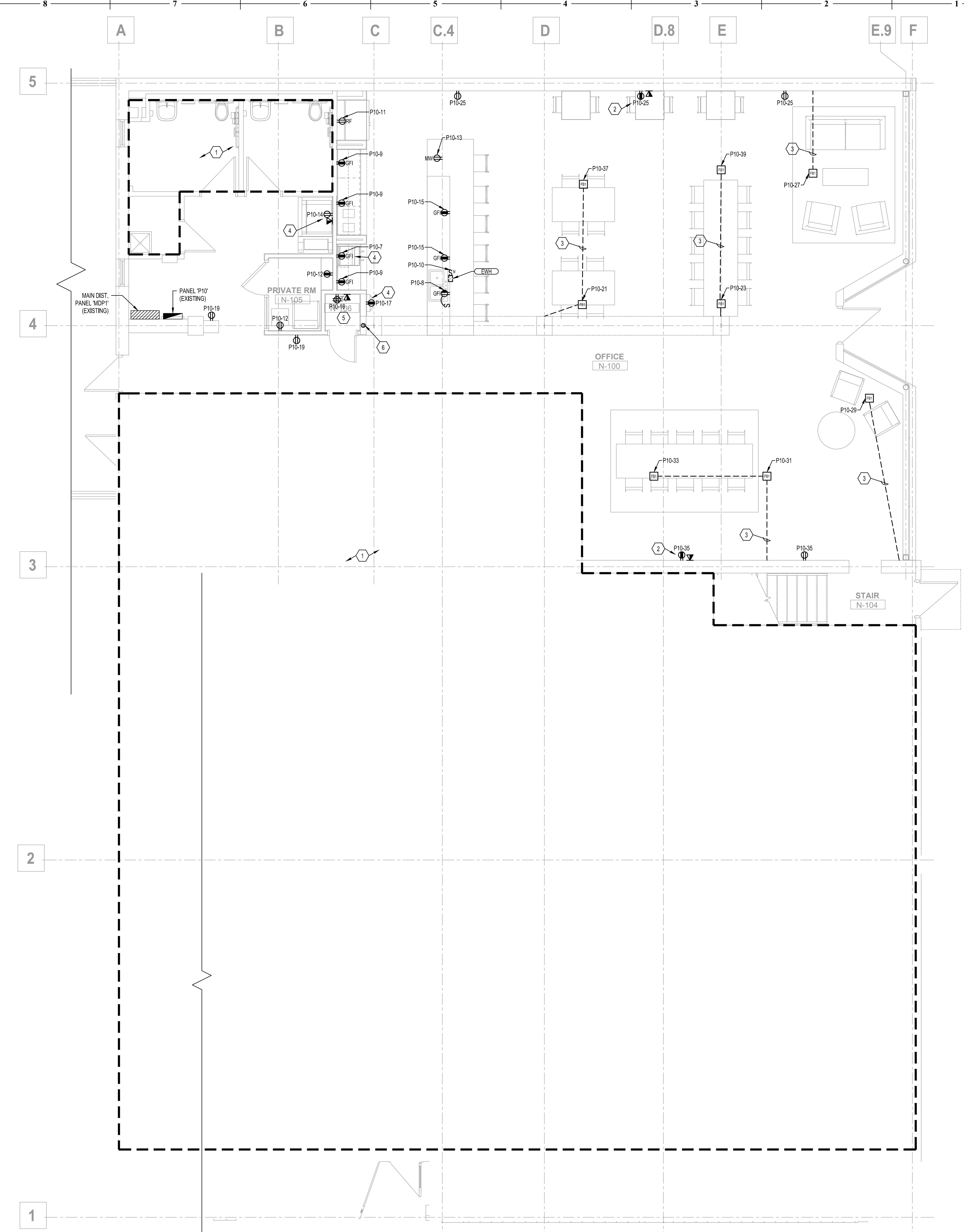
KEYED NOTES:

1. NO SCOPE IN THIS AREA.
2. POWER AND DATA FOR TV. COORDINATE EXACT MOUNTING HEIGHT PRIOR TO ROUGH-IN.
3. PROVIDE (1) 1" CONDUIT FOR POWER AND (1) 1 1/4" CONDUIT FOR DATA FROM FLOORBOX TO NEAREST WALL AND STUBBED INTO ACCESSIBLE CEILING. FIELD COORDINATE EXACT LOCATION OF FLOORBOX WITH OWNER PRIOR TO ROUGH-IN.
4. COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
5. COORDINATE EXACT IT CLOSET POWER REQUIREMENTS WITH OWNER.
6. PROVIDE (1) 4" EMPTY CONDUIT STUB WITH BUSHINGS BETWEEN IT CLOSET AND SECOND FLOOR FOR DATA CABLING. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

PERMIT DOCUMENTS

1 ELECTRICAL FIRST FLOOR POWER PLAN

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



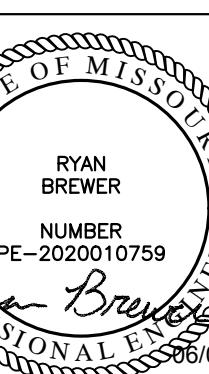
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△ CITY COMMENTS 06.21.22



PROFESSIONAL SEAL

Ryan Brewer
PE-2020010759
01/01/2022

E202

ISSUE DATE: 01 JUNE, 2022
COLLINS WEBB #: 22046

ELECTRICAL
2ND FLOOR
POWER PLAN

GENERAL NOTES (NOT ALL NOTES APPLY)

1. REFERENCE SHEET E101 FOR GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. COORDINATE MOUNTING HEIGHTS AND LOCATIONS FOR ALL DEVICES WITH ARCHITECT AND/OR INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
3. PROVIDE AND INSTALL 3/4" CONDUIT AND PULL STRINGS FROM TELEPHONE DATA OUTLETS TO ABOVE ACCESSIBLE CEILING. VERIFY EXACT REQUIREMENTS WITH TELEPHONE EQUIPMENT SUPPLIER AND/OR TENANT.
4. ALL RECEPTACLES AND COVER PLATES TO BE STAINLESS STEEL.

KEYED NOTES: □

1. NO SCOPE IN THIS AREA.
2. CIRCUIT OFFICE RECEPTACLES TO SPARE 1P-20A CIRCUIT IN EXISTING LOADCENTER LC1. IF EXISTING LOADCENTER DOES NOT HAVE ANY SPACE AVAILABLE, CONNECT TO PANEL P10 ON LEVEL BELOW.
3. CONNECT FIXTURES TO 2ND FLOOR CORRIDOR LIGHTING CIRCUIT AHEAD OF ANY MEANS OF CONTROL FOR PROPER OPERATION.
4. MOUNT FIXTURE ON WALL ADJACENT TO STAIRS TO PROVIDE EGRESS LIGHTING ON STAIRS DURING LOSS OF NORMAL POWER. FIELD VERIFY EXACT LOCATION.

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