

MAIN STREET BUILDING IMPROVEMENTS

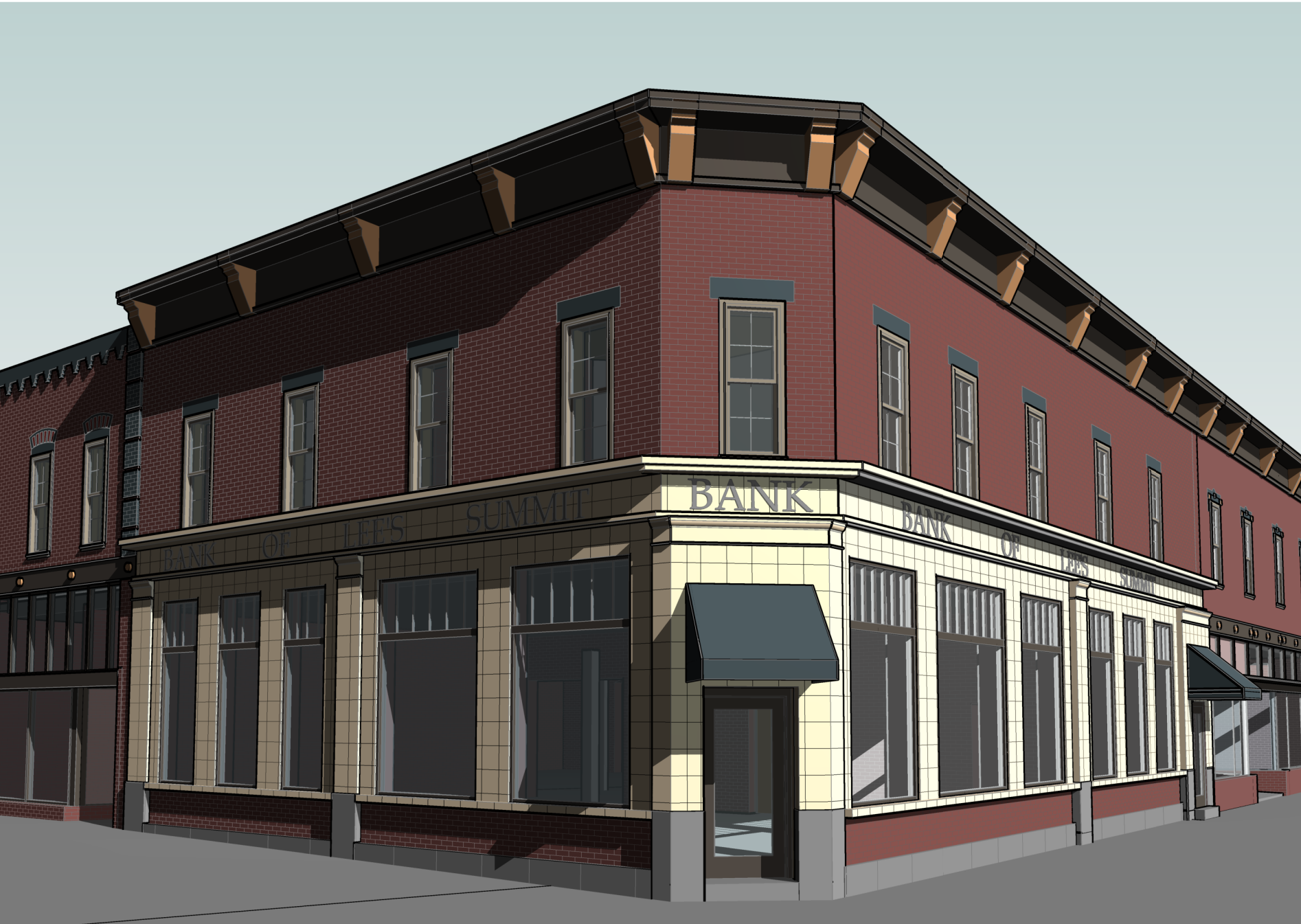
230 SW MAIN ST.
LEE'S SUMMIT, MO 64063

PERMIT DOCUMENTS

21 APRIL, 2022

COLLINS WEBB #: 21121

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LEE'S SUMMIT, MO 64063

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COLLINS WEBB
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G001

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GENERAL INFORMATION

GENERAL INFORMATION NOTES:

1. ALL CONTRACTORS AND THEIR SUPERVISORY PERSONNEL SHALL REVIEW THE GENERAL AND SUPPLEMENTARY CONDITIONS TO THE CONTRACT.
2. ALL WORK SHALL CONFORM WITH APPLICABLE BUILDING CODES, REGULATIONS AND ORDINANCES. THE CONTRACTOR AND/OR OWNER SHALL OBTAIN ALL REQUIRED BUILDING AND OCCUPANCY PERMITS.
3. CONTRACTOR SHALL BECOME FULLY ACQUAINTED WITH CONDITIONS RELATED TO THE WORK.
4. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION, AND THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND VISITORS.
5. DRAWINGS CONTAINED IN THIS SET SHALL NOT BE REPRODUCED FOR SHOP DRAWINGS. COPIES OF THESE DRAWINGS SUBMITTED AS SHOP DRAWINGS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR.
6. EACH INSTALLER MUST EXAMINE SUBSTRATE AND/OR CONDITIONS UNDER WHICH THE WORK WILL BE INSTALLED AND REPORT TO THE CONTRACTOR ANY UNUSUAL CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY EXECUTION OF THAT INSTALLERS WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED. COMMENCING WITH INSTALLATION SHALL CONSTITUTE ACCEPTANCE OF THE SUBSTRATE AND/OR CONDITIONS.
7. DO NOT SCALE DRAWINGS. FOLLOW WRITTEN DIMENSIONS AND NOTES. CONTACT ARCHITECT FOR CLARIFICATIONS, IF REQUIRED.
8. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD WALL, (F.G.) FACE OF MASONRY, F.O.M. FACE OF CONCRETE WALLS, AND COLUMN GRIDS, UNLESS OTHERWISE NOTED OR INDICATED. NOTE: WALL THICKNESSES ARE ACTUAL DIMENSIONS. REFER TO ELEVATION SHEET FOR THICKNESSES.
9. ALL MASONRY WALL THICKNESSES ACTUAL DIMENSIONS REFER TO WALL TYPES SHEET.
10. IF SPACE ALLOWS, CENTER DOOR IN WALL SHOWN ON THE DRAWINGS SO THAT EITHER "DIM A" EQUALS "DIM C" OR "DIM B" EQUALS "DIM D".
11. IF "DIM E" IN DIAGRAMS BELOW IS LESS THAN THE SUM OF 2 TIMES THE DOOR WIDTH PLUS 20 INCHES, LOCATE DOOR SO THAT MINIMUM STATED NOTE NO 40 ABOVE FOR "DIM A", "DIM B", AND "DIM D" ARE MET - MAXIMIZING "DIM A" AND MINIMIZING "DIM D" TO THE EXTENT POSSIBLE.
12. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS - CONTACT ARCHITECT FOR CLARIFICATION. FOR BIDDING PURPOSES, THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS SHALL GOVERN. FOR CLARIFICATIONS DURING CONSTRUCTION, THE MOST EXPENSIVE AND/OR STRICTEST REQUIREMENTS, AS INDICATED BY THE ARCHITECT, SHALL GOVERN.
13. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR RESOLUTION, PRIOR TO PROCEEDING WITH THE WORK.
14. ANY AND ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING FOR RESOLUTION, PRIOR TO PROCEEDING WITH THE WORK. IN THESE INSTANCES, NO CHANGE ORDERS OR EXTENSIONS OF TIME WILL BE ALLOWED OR ACCEPTED FOR PROCEEDING WITH THE WORK WITHOUT THE ARCHITECT'S WRITTEN DIRECTION AND APPROVAL. ALSO - CONTRACTOR MUST REPAIR AND/OR REPLACE ANY UNAUTHORIZED WORK, AS INDICATED BY THE ARCHITECT, AT THE CONTRACTOR'S COST TO THE OWNER.
15. ALL DISSIMILAR METAL MATERIALS SHALL BE ISOLATED WITH AN APPROVED NONMETAL ISOLATION MATERIAL. EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALL PANELS, AND AT PENETRATIONS INTO UTILITIES THROUGH THE BUILDING ENVELOPE, ETC. - SHALL BE SEALED, CALKED, FLASHED OR WEATHER-STRIPPED AS REQUIRED FOR COMPATIBILITY WITH ADJACENT MATERIALS & TO ELIMINATE AIR LEAKAGE AND WATER ENTRY.
16. PROVIDE SEALANT AND/OR CALKING BETWEEN DISSIMILAR ADJOINING INTERIOR MATERIALS, (I.E. WINDOW SILLS TO GYP. BD., ACT. CEILINGS TO MASONRY WALLS, ETC.)
17. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO FINISH JAMB, ALWAYS ALLOWING A MINIMUM OF 18" FROM THE PULL SIDE OF THE DOOR TO THE INTERESTING WALL.
18. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND THEIR SERVICE CONNECTIONS WITH THE PROPER UTILITY COMPANY. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE FINAL SIZE AND DEPTH OF THE ELEVATOR PIT, SHAFT, RAIL SUPPORT, HOST SUPPORT, OVERRUN AND MISC. ELEVATOR REQUIREMENTS WITH THE SELECTED ELEVATOR MANUFACTURER'S SUPPLIER.
19. CONTRACTOR SHALL COORDINATE SIZE, LOCATIONS AND NUMBER OF ALL FLOOR OPENINGS AND ROOF ACCESSORIES WITH ALL OTHER TRADES. REFER TO THE ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS.
20. LOCATIONS AND SIZES OF ALL CONCRETE MECHANICAL AND ELECTRICAL PADS SHALL BE COORDINATED BY THE MECHANICAL AND ELECTRICAL CONTRACTORS, WITH THE SELECTED EQUIPMENT MANUFACTURER(SUPPLIER, AND ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
21. EXCEPT AT FIRE-RATED PARTITIONS, ALL WALL AND CEILING JOINTS SHALL BE FINISHED WITH FINISH CEILING.
22. AT ALL TELECOMMUNICATION ROOMS, PROVIDE 3/4" X 8" X 4" RIGID FIRE-RETARDANT-TREATED WOOD SHEATHING OR PROVIDE PLYWOOD OVER NON-COMBUSTIBLE SHEATHING. BOTTOM TO BE LOCATED AT 4" A.F.F. VERIFY LENGTHS AND LOCATIONS WITH ELECTRICAL DRAWINGS.
23. GLASS DOORS, ADJACENT PANELS AND ALL GLAZED OPENINGS WITHIN 14" OF THE FLOOR, AND WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF A DOOR, ETC., SHALL BE SAFETY GLAZING AS APPROVED FOR IMPACT BY APPLICABLE BUILDING CODES, AND SHALL BE LABELED AS SUCH.
24. ALL CEILING HEIGHTS AS SHOWN ON PLANS AND DETAILS ARE FROM SLAB OR TILE FLOOR (FINISHED FLOOR) TO FINISH CEILING.
25. PROVIDE INDEPENDENT FRAMING & ATTACHMENTS TO THE STRUCTURE - ADEQUATE TO SUPPORT THE CEILING SYSTEM, LIGHT FIXTURES, DUCTS, DIFFUSERS, SPRINKLER PIPING AND BUS DUCTS.
26. ALL CLOSETS AND ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS ADJOINING SPACES.
27. CONTRACTOR TO INSTALL WOOD BLOCKING AND PLYWOOD AS REQUIRED FOR THE MOUNTING OF ALL TOILET ACCESSORIES, MILLWORK CASEWORK, HANDRAILS, FIRE EXTINGUISHERS, WALL SPEAKERS, POSTER CASES, TELEVISIONS, ELECTRICAL PANELS, FIRE ALARMS, MEP ITEMS, AND AV EQUIPMENT, ETC. REFER TO SPECIFICATIONS FOR ALL REQUIRED TESTING AND INSPECTIONS.
28. ANY ALL PROPRIETARY PRODUCTS DESCRIBED AND/OR DRAWN IN THE DOCUMENTS (BUT NOT SPECIFIED) ARE TO MEET THE MANUFACTURER'S STANDARD CRITERIA WHICH IS NOT LIMITED TO THE FOLLOWING: PERFORMANCE REQUIREMENTS, QUALITY ASSURANCE REQUIREMENTS, APPLICABLE CODES AND INDUSTRY STANDARDS, FABRICATION, ASSEMBLY, HANDLING, DELIVERY, STORAGE, INSTALLATION, OPERATION, ADJUSTMENTS, ETC. PROVIDE THE MANUFACTURER'S STANDARD WARRANTY AND STANDARD FINISH WARRANTY. PROVIDE PRODUCT DATA, SHOP DRAWINGS, SAMPLES, AND MAINTENANCE DATA AS REQUIRED. REFER TO DIVISION 01 SPEC. SECTIONS WHICH ALSO APPLY - SUCH AS SUBSTITUTION PROCEDURES, SUBMITTAL PROCEDURES, QUALITY REQUIREMENTS, REFERENCES, EXECUTION, AND CLOSOUT PROCEDURES. NOTE: ANY SUBSTITUTIONS MUST MEET THE DESIGN INTENT, AS WELL AS THE CRITERIA DESCRIBED ABOVE.
29. PROVIDE MINIMUM WARRANTY PERIOD OF 18 MONTHS FROM SUBSTANTIAL COMPLETION ON ALL PRODUCTS/ SERVICES.

ARCHITECTURAL DIMENSIONING CONVENTIONS

- NOTE NO 3 CONTINUED:
- 1. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF THE WORK AT THE "APPROXIMATE LOCATION SHOWN," DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.
 - 2. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN 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, CONFIGURATION DETAILS, 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" SYMBOL ARE MEASURED TO:
 - STRUCTURAL OR DIMENSIONAL GRID LINES.
 - CENTERLINE OF CONCRETE OR CONC. MASONRY UNIT WALLS EXCLUSIVE OF FURRING OR APPLIED FINISHES HAVING THICKNESS. REFER TO THE ARCH PLANS AND SECTIONS, THE STRUCT. DRAWINGS, OR PARTITION SCHEDULE TO DETERMINE THE THICKNESS OF CONCRETE OR CONC. MASONRY UNIT WALLS.
 - CENTERLINE OF PARTITION ASSEMBLY (EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALLS) AT PARTITIONS FRAMED WITH METAL, SOFTEN REFER TO "PARTITION SCHEDULE" TO DETERMINE THICKNESS OF EACH PARTITION TYPE.
 - CENTERLINE OF DOOR, WINDOW, OR LOUVER OPENING.
 - CENTERLINE OF EQUIPMENT OR FURNISHING.
 - CENTERLINE OF OTHER FEATURES AS INDICATED.
 - B. REFER TO ABBREVIATIONS LEGEND FOR SYMBOL USED TO INDICATE CENTERLINE DIMENSION.
 - C. DIMENSIONS UTILIZING THE "FACE OF" SYMBOL ARE MEASURED TO:
 - FACE OF CONCRETE OR CONC. MASONRY UNIT WALL (EXCLUSIVE OF APPLIED FINISHES HAVING THICKNESS OR FURRING WHICH MAY BE ADDED TO THE FACE OF SUCH WALLS).
 - FACE OF PARTITION ASSEMBLY (EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALLS) AS DEFINED BY THE PARTITION SCHEDULE. UNLESS NOTED AS A "FACE OF FINISH" OR "CLEAR" DIMENSION (SEE NOTE E BELOW), DIMENSIONS ARE NOT MEASURED TO THE FACE OF APPLIED FINISH. REFER TO THE "PARTITION SCHEDULE" TO DETERMINE THE THICKNESS OF EACH PARTITION TYPE.
 - INSIDE EDGE OF FINISHED DOOR OPENING. REFER TO THE DOOR SCHEDULE FOR ADDITIONAL DIMENSIONAL INFORMATION.
 - DIMENSION OR WORK POINT AS INDICATED ON RELATED ARCH DETAIL PLAN, SECTION, ELEVATION, LAYOUT OR CONFIGURATION DETAIL, OR CONSTRUCTION DETAIL.
 - D. REFER TO ABBREVIATIONS LEGEND FOR SYMBOL USED TO INDICATE "FACE OF" DIMENSION.
 - E. WHERE "FACE OF FINISH" OR "CLEAR" DIMENSIONS ARE SPECIFICALLY NOTED, THE DIM IS MEASURED TO:
 - FINISH FACES AT THE MOST NARROW OR CONSTRICTED POINTS OF SECTION WHERE DIMENSION IS SHOWN, WHEN THE DIMENSION OCCURS ACROSS AN OPEN SPACE. THIS CASE, A "FACE OF FINISH" DIMENSION IS EQUIVALENT TO A "CLEAR" DIMENSION.
 - FINISH FACES AT THE WIDEST OR MOST EXPANSIVE POINTS OF THE SECTION THE DIMENSION IS SHOWN WHEN THE DIMENSION OCCURS ACROSS AN OBJECT OR GROUP OF OBJECTS.
 - F. WHERE "EQUAL" DIMENSIONS ARE USED ON REFLECTED CEILING PLANS TO LOCATE CEILING GRID WORK POINTS, MEASURE DIMENSIONS TO:
 - EDGE OF THE INDICATED CEILING AT THE FACE OF THE ADJACENT APPLIED FINISH MEASURED AT THE PLANE OF THE CEILING.
- NOTE NO 4 CONTINUED:
- 1. CAUTION: DUE TO THE POSSIBLE APPLICATION OF APPLIED FINISHES - THICKNESS OF WHICH MAY VARY BETWEEN FLOOR AND CEILING AND IS NOT ACCOUNTED FOR (EXCEPT AS INDICATED BY "TOP" OR "CLEAR" BY THE DIMENSION SHOWN ON THE FLOOR PLANS - THE CONTRACTOR MUST ADJUST, AS NECESSARY, THE FLOOR PLAN DIMENSIONS TO REFLECT THE ACTUAL DIMENSIONS FOUND AT PLANE OF THE CEILING.
- NOTE NO 5 CONTINUED:
- 1. WHERE DIMENSIONS ARE NOT PROVIDED ON FLOOR PLANS TO LOCATE DOOR OPENINGS, APPLY THE FOLLOWING RULES, IN ORDER, TO DETERMINE THE LOCATION OF DOOR OPENINGS:
 - A. DOOR OPENINGS MAY BE DIMENSIONED ON DRAWINGS OTHER THAN THE FLOOR PLANS. REFER TO THE SECTIONS, ELEVATIONS, DETAILS, AND DOOR SCHEDULE NOTES FOR ADDITIONAL DIMENSIONAL INFORMATION.
 - B. WHERE THE HINGE-SIDE OF A DOOR IS SHOWN ADJACENT TO A WALL - OR WALLS PERPENDICULAR TO THE WALL IN WHICH THE DOOR OPENING OCCURS.
 - AT DOORS OCCURRING IN METAL FRAMED GYPSUM BOARD PARTITIONS, LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 4 INCHES FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.
 - C. AT DOORS OCCURRING IN WALLS OF CONC. MASONRY UNIT CONSTRUCTION, LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 10 INCHES FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.
- NOTE NO 6 CONTINUED:
- 1. WHERE DOOR IS SHOWN LOCATED IN A LARGE EXPANSE OF OPEN WALL ("DIM A" AND "DIM B" IN DIAGRAM BELOW BOTH EXCEED 16'-0"), PLACE DOOR AT APPROXIMATE LOCATION SHOWN WHILE MINIMIZING "DIM C" OR PARTIAL CMU MODULES ADJACENT TO THE JAMBS.
- NOTE NO 7 CONTINUED:
- 1. WHERE WALLS AND/OR PARTITIONS OF UNEQUAL THICKNESS ADJ. ALIGN EXPOSED FINISH, UNLESS OTHERWISE NOTED.

REFLECTED CEILING PLAN SYMBOLS:

- 9'-0" CEILING HEIGHT
- GYP. BD.
- SUSP. CEILING SYSTEM
- SUPPLY
- RETURN
- EXHAUST
- 2X4 LIGHT FIXTURE
- 1X4 LIGHT FIXTURE
- 2X2 LIGHT FIXTURE DIRECT/INDIRECT
- FLUORESCENT STRIP FIXTURE
- TRACK LIGHTING
- PENDANT FIXTURE
- CAN LIGHT
- FIRE EXIT SIGN
- SPRINKLER HEAD
- SPEAKER
- CONTROL JOINT IN GYP. BD. CEILING
- 2X4 LAY-IN CEILING
- 2X2 LAY-IN CEILING
- SECURITY CEILING
- OPEN TO STRUCTURE
- WOOD VENEER
- T & G WOOD VENEER
- EXTERIOR STUCCO SOFFIT
- EXTERIOR METAL PANEL SOFFIT

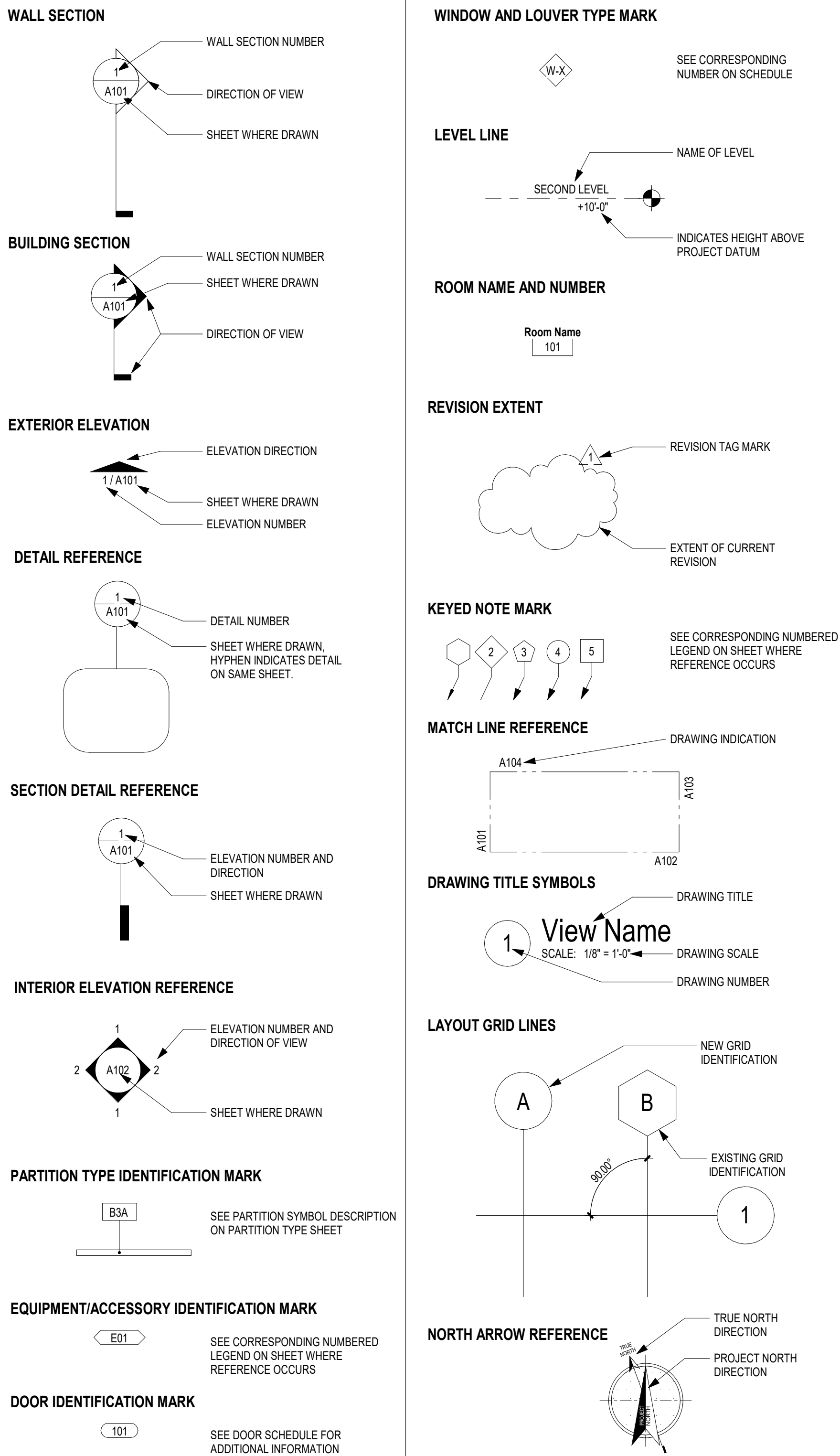
TYP DOOR LEGEND

- NEW CONSTRUCTION
- EXISTING
- DEMOLITION

WALL TYPE LEGEND

- EXISTING PARTITION
- DEMOLISHED PARTITION
- CMU PARTITION
- UNRATED PARTITION

TYPICAL ARCHITECTURAL REFERENCE SYMBOLS



SPKL	SPRINKLER	SP	SOUTH
SPKR	SPEAKER	SA	SUPPLY AIR
SQ	SQUARE	SB	SPLASH BLOCK
SS	SANITARY SEWER	SC	SOLID CORE
SK	SERVICE SINK	SD	SOUTHSIDE
SKT	STAINLESS STEEL	SE	SCHEDULE
ST	STREET	SECT	SECTION
STA	STATION	SEG	SEGMENT
STAG	STAGGERED	SEP	SEPARATION OR SEPARATE
SW	SOUND TRANSMISSION COEFFICIENT	SEP-JT	SEPARATION JOINT
STL	STANDARD	SHT	SHEET, SHEETING
STL	STEEL	SHR	SHOWER
STOR	STORAGE	SHV	SHELVES, SHELVING
STRUC	STRUCTURAL	SIM	SIMILAR
STK	STRUCTURAL	SK	SKY
STG	SELF-TAPPING STEEL	SMS	SHEET METAL, SCREW
SUSP	SUSPENDED	SP	SPACE, SPACED, SPACING
SUSP CLG	SUSPENDED CEILING	SPEC	SPECIFICATION
SVC	SERVICE		
SW	SOUTHWEST		
SYMM	SYMMETRICAL		
SYST	SYSTEM		
T	TREAD		
T&B	TOP AND BOTTOM		
T&G	TONGUE AND GROOVE		
TC	TOP OF CONCRETE, TOP OF CURB		
TEL	TELEPHONE		
TEMP	TEMPORARY		
TERM	THERMAL		
TH	THICK, THICKNESS		
THRES	THRESHOLD		
THRU	THROUGH		
TMPO GL	TEMPERED GLASS		
TP	TOP OF		
TOR	TOP OF RAILING		
TOT	TOP OF STEEL		
TOT	TOTAL		
TOW	TOP OF WALL		
TP	TOP OF PAVEMENT		
TPH	TOILET PAPER HOLDER		
TRANS	TRANSIENT		
TB	TELEPHONE TERMINAL BOARD		
TV	TELEVISION		
TW	TOP OF WALL		
U	UNDER COUNTER		
UL	UNDERWRITERS LABORATORIES		
UN	UNFINISHED		
UN	UNLESS OTHERWISE NOTED		
UPS	UNINTERRUPTIBLE POWER SUPPLY		
UR	URINAL		
UTL	UTILITY		
V	VACUUM		
VB	VALVE BOX		
VCT	VINYL COMPOSITION TILE		
VERT	VERTICAL		
VEST	VESTIBULE		
VIT	VITREOUS		
VT	VENT PIPE		
VOL	VOLUME		
VWC	VINYL WALL COVERING		
W	WEST		
WI	WITH		
WO	WITHOUT		
WO	WALL TO WALL		
WANS	WAINSCOT		
WC	WATER CLOSET, WALL COVERING		
WC	WOOD		
WDW	WINDOW		
WGL	WIRE GLASS		
WCH	WHEELCHAIR		
WM	WIRE MESH		
WO	WHERE OCCURS		
WO	WITHOUT		
WP	WATERPROOF		
WPT	WORKING POINT		
WR	WATER RESISTANT		
WSC	WAINSCOT		
WSP	WEI STANDPIPE		
WT	WEIGHT		
WTRPRF	WEATHERPROOF		
WTRPRF	WATERPROOF		
WVF	WELDED WIRE FABRIC		
WWM	WELDED WIRE MESH		
X			
XMR	TRANSFORMER		
Y			
YD	YARD		

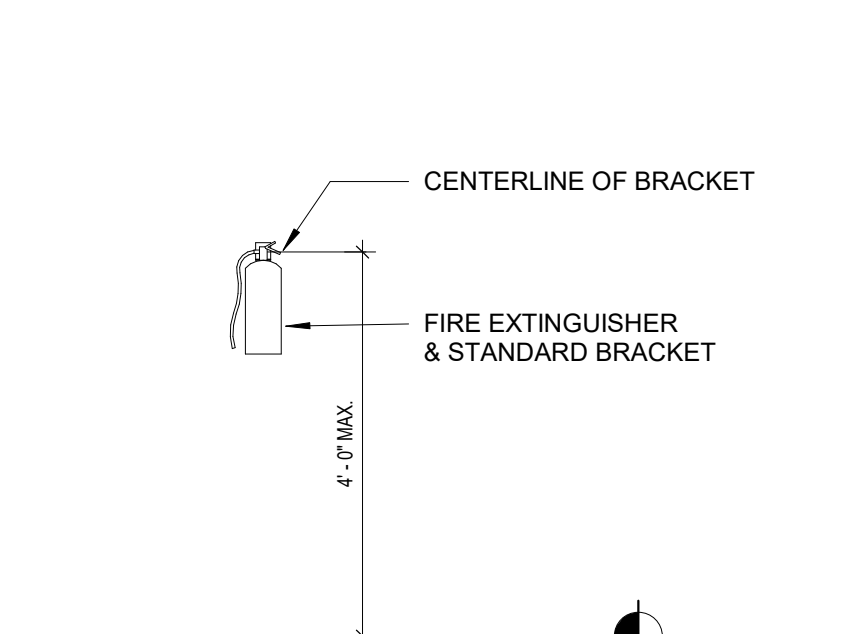
PA	PUBLIC ADDRESS	PA	PART
PB	PARTITION BOARD	PB	PART
PBX	PRIVATE TELEPHONE EXCHANGE	PCF	POUNDS PER CUBIC FOOT
PCF	POUNDS PER CUBIC FOOT	PCF	POUNDS PER CUBIC INCH
PCF	POUNDS PER CUBIC INCH	PERF	PERFORATED
PERF	PERFORATED	PERIM	PERIMETER
PERIM	PERIMETER	PERM	PERMANENT
PERM	PERMANENT	PERMOD	PERMODULAR
PI	POINT OF INTERSECTION	PL	PLATE
PL	PLATE	PLAM	PLASTIC LAMINATE
PLAS	PLASTER, PLASTIC	PLUG	PLUMBING
PLUG	PLUMBING	PUSP	PUSH PLATE
PUSP	PUSH PLATE	PW	PARTS PER MILLION
PW	PARTS PER MILLION	PREST	PRECAST
PREST	PRECAST	PREP	PREPARATION
PREP	PREPARATION	PRETAB	PREFABRICATED
PREFAB	PREFABRICATED	PRNG	PARKING
PRNG	PARKING	PROJ	PROJECT
PROJ	PROJECT	PROP	PROPERTY
PROP	PROPERTY	PSF	POUNDS PER SQUARE FOOT
PSF	POUNDS PER SQUARE FOOT	PSI	POUNDS PER SQUARE INCH
PSI	POUNDS PER SQUARE INCH	PT/PTD	POINT, PAINT / PAINTED
PT/PTD	POINT, PAINT / PAINTED	PTS	PNEUMATIC TUBE STATION
PTS	PNEUMATIC TUBE STATION	PVC	POLYVINYL CHLORIDE
PVC	POLYVINYL CHLORIDE	PAYNG	PAVING
PAYNG	PAVING	PWMT	PAVEMENT
PWMT	PAVEMENT	PWR	POWER
PWR	POWER		
R	RISER	RA	RETURN AIR
RA	RETURN AIR	RAD	RADIUS
RAD	RADIUS	RES	RESILIENT BASE
RES	RESILIENT BASE	RCP	REFLECTED CEILING PLAN
RCP	REFLECTED CEILING PLAN	RCP	RECEPTACLE
RCP	RECEPTACLE	RD	ROOF DRAIN
RD	ROOF DRAIN	RECT	RECTANGULAR
RECT	RECTANGULAR	REF	REFERENCE
REF	REFERENCE	REFR	REFRIGERATION
REFR	REFRIGERATION	REG	REGISTER
REG	REGISTER	REIN	REINFORCE (D) (ING) (MENT)
REIN	REINFORCE (D) (ING) (MENT)	REQD	REQUIRED
REQD	REQUIRED	RENT	REQUIREMENT
RENT	REQUIREMENT	RESIL	RESILIENT
RESIL	RESILIENT	RET	RETURN
RET	RETURN	REV	REVISION
REV	REVISION	RF	RESILIENT FLOORING
RF	RESILIENT FLOORING	RH	RIGHT HAND
RH	RIGHT HAND	RHS	ROUND HEAD MACHINE SCREW
RHS	ROUND HEAD MACHINE SCREW	RHS	ROUND HEAD WOOD SCREW
RHS	ROUND HEAD WOOD SCREW	RM	ROOM
RM	ROOM	RND	ROUND
RND	ROUND	RO	ROUGH OPENING
RO	ROUGH OPENING	ROW	RIGHT OF WAY
ROW	RIGHT OF WAY	RWL	RAIN WATER LEADER
RWL	RAIN WATER LEADER		
S	SOUTH	SA	SUPPLY AIR
SA	SUPPLY AIR	SB	SPLASH BLOCK
SB	SPLASH BLOCK	SC	SOLID CORE
SC	SOLID CORE	SD	SOUTHSIDE
SD	SOUTHSIDE	SCHD	SCHEDULE
SCHD	SCHEDULE	SECT	SECTION
SECT	SECTION	SEG	SEGMENT
SEG	SEGMENT	SEP	SEPARATION OR SEPARATE
SEP	SEPARATION OR SEPARATE	SEP-JT	SEPARATION JOINT
SEP-JT	SEPARATION JOINT	SHT	SHEET, SHEETING
SHT	SHEET, SHEETING	SHR	SHOWER
SHR	SHOWER	SHV	SHELVES, SHELVING
SHV	SHELVES, SHELVING	SIM	SIMILAR
SIM	SIMILAR	SK	SKY
SK	SKY	SMS	SHEET METAL, SCREW
SMS	SHEET METAL, SCREW	SP	SPACE, SPACED, SPACING
SP	SPACE, SPACED, SPACING	SPEC	SPECIFICATION

SPKL	SPRINKLER	SP	SOUTH
SPKR	SPEAKER	SA	SUPPLY AIR
SQ	SQUARE	SB	SPLASH BLOCK
SS	SANITARY SEWER	SC	SOLID CORE
SK	SERVICE SINK	SD	SOUTHSIDE
SKT	STAINLESS STEEL	SE	SCHEDULE
ST	STREET	SECT	SECTION
STA	STATION	SEG	SEGMENT
STAG	STAGGERED	SEP	SEPARATION OR SEPARATE
SW	SOUND TRANSMISSION COEFFICIENT	SEP-JT	SEPARATION JOINT
STL	STANDARD	SHT	SHEET, SHEETING
STL	STEEL	SHR	SHOWER
STOR	STORAGE	SHV	SHELVES, SHELVING
STRUC	STRUCTURAL	SIM	SIMILAR
STK	STRUCTURAL	SK	SKY
STG	SELF-TAPPING STEEL	SMS	SHEET METAL, SCREW
SUSP	SUSPENDED	SP	SPACE, SPACED, SPACING
SUSP CLG	SUSPENDED CEILING	SPEC	SPECIFICATION
SVC	SERVICE		
SW	SOUTHWEST		
SYMM	SYMMETRICAL		
SYST	SYSTEM		
T	TREAD		
T&B	TOP AND BOTTOM		
T&G	TONGUE AND GROOVE		
TC	TOP OF CONCRETE, TOP OF CURB		
TEL	TELEPHONE		
TEMP	TEMPORARY		
TERM	THERMAL		
TH	THICK, THICKNESS		
THRES	THRESHOLD		
THRU	THROUGH		
TMPO GL	TEMPERED GLASS		
TP	TOP OF		
TOR	TOP OF RAILING		
TOT	TOP OF STEEL		
TOT	TOTAL		
TOW	TOP OF WALL		
TP	TOP OF PAVEMENT		
TPH	TOILET PAPER HOLDER		
TRANS	TRANSIENT		
TB	TELEPHONE TERMINAL BOARD		
TV	TELEVISION		
TW	TOP OF WALL		
U	UNDER COUNTER		
UL	UNDERWRITERS LABORATORIES		
UN	UNFINISHED		
UN	UNLESS OTHERWISE NOTED		
UPS	UNINTERRUPTIBLE POWER SUPPLY		
UR	URINAL		
UTL	UTILITY		
V	VACUUM		
VB	VALVE BOX		
VCT	VINYL COMPOSITION TILE		
VERT	VERTICAL		
VEST	VESTIBULE		
VIT	VITREOUS		
VT	VENT PIPE		
VOL	VOLUME		
VWC	VINYL WALL COVERING		
W	WEST		
WI	WITH		
WO	WITHOUT		
WO	WALL TO WALL		
WANS	WAINSCOT		
WC	WATER CLOSET, WALL COVERING		
WC	WOOD		
WDW	WINDOW		
WGL	WIRE GLASS		
WCH	WHEELCHAIR		
WM	WIRE MESH		
WO	WHERE OCCURS		
WO	WITHOUT		
WP	WATERPROOF		
WPT	WORKING POINT		
WR	WATER RESISTANT		
WSC	WAINSCOT		

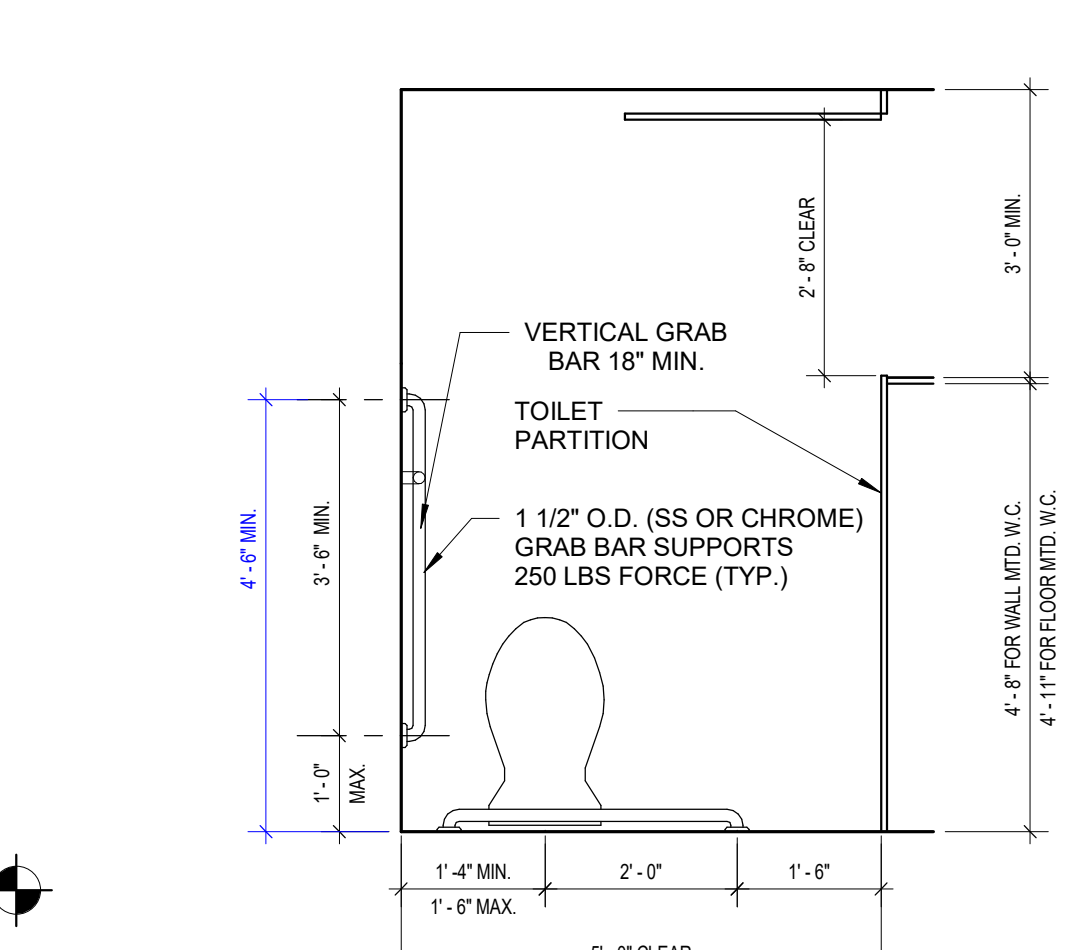
GENERAL NOTES ACCESSIBILITY GUIDELINES:

- NOTE: ALL DIMENSIONS ARE MEASURED FROM FLOOR, UNLESS NOTED OR SHOWN OTHERWISE.
- ADA UNOBSTRUCTED REACH RANGES: ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
- ELEVATORS: STANDARD CALL BUTTONS: 36" TO 48" TO C.L. & PROTRUDE 1" MAX. ADA CALL BUTTONS: 42" TO C.L. (TYP.) & 48" MAX. (3/4" SMALLEST DIM.). ADA VISIBLE SIGNALS: 72" MIN. TO C.L. (2 1/2" SMALLEST DIM.). TACTILE SIGNAL ON HOISTWAY: 60" TO BASE OF CHARACTERS W/ TACTILE STAR & 2" HIGH CHARACTERS.
- DOOR HARDWARE (TO CENTER OF HARDWARE): STANDARD MOUNTING HEIGHTS: PUSH PLATES = 42"; PULL HANDLES = 42"; KNOBS/LEVERS = 40"; PANIC EXIT = 42"; CENTERLINE OF BAR, KICKPLATES: WIDTH = DOOR WIDTH MINUS 2"; CENTER HEIGHT = 18" FROM B.O. DOOR THRESHOLDS: STANDARD = 1/2" MAX. AT EXT. SLIDING DOORS = 3/4" MAX. ADA HARDWARE = 34" MIN. TO 48" MAX. DRINKING FOUNTAINS & SPOUTS (TO SPOUT): STANDARD = 40" TYP. 42" MAX. ADA = 38" MAX. (27" MIN. CLEAR KNEE SPACE).
- COUNTERTOPS (TO SINK RIM/ COUNTERTOP): ADA = 28" MIN. TO 34" MAX.
- WATER CLOSETS (TO TOP OF SEAT): STANDARD = 14" TO 15" ADA (TO TOP OF SEAT) = 17" TO 19" ADA FLUSH CONTROLS = 44" MAX.
- URINALS (TO RIM): STANDARD = 24" MAX. ADA = 17" MAX. ADA FLUSH CONTROL S = 44" MAX.
- LAVATORIES (TO SINK RIM/ COUNTERTOP): STANDARD = 38" MAX. ADA = 34" MAX. (29" MIN. CLEAR KNEE SPACE).
- MIRRORS (TO B.O. REFLECTIVE SURFACE): STANDARD VARIES. ADA = 40" MAX.
- GRAB BARS: ADA (TO TOP OF BAR): WATER CLOSETS = 33" MIN. TO 38" MAX. SHOWERS = 33" MIN. TO 38" MAX. FROM B.O. SHOWER, BATHTUBS: TOP BAR = 33" MIN. TO 38" MAX. BOT. BAR = 8" ABOVE T.O. TUB.
- SHOWER HEADS (FROM FLOOR TO HEAD): STANDARD = 72" TO 84" ADA = SPRAY UNIT W/ HOSE 60" LONG MIN. ADA = FIXED SHOWER HEAD = 48" AFF.
- SHOWER CONTROLS (TO CONTROL AREA): STANDARD = 48" MAX. (TO TOP). ADA = 38" MIN. TO 48" MAX.
- SHOWER ROD (FROM FLOOR TO C.L.): STANDARD = 78" MAX.
- TOILET ROOM PARTITIONS: TOILETS = 12" TO BOT. & 70" TO TOP. URINALS = 18" TO BOT. & 60" TO TOP.
- TOILET PAPER DISPENSERS (TO C.L. OF OUTLET): STANDARD = 24" ADA = 19" MIN. TO 24" MAX.
- WALL MOUNTED SOAP DISPENSERS (TO C.L. OF PUSH BUTTON): STANDARD = 40" ADA = VARIES. RE-OBSTRUCTED AND UNOBSTRUCTED REACH RANGES: ADA SIDE REACH = 48" MAX. ABOVE SINK IN COUNTER. PAPER TOWEL DISPENSER/ WASTE RECEPTACLE (TO TOWEL SLOT): STANDARD = 40" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
- WARM AIR HAND DRYER (TO PUSH SWITCH): STANDARD = 44" MAX. ADA FORWARD REACH = 48" MAX. & 15" MIN. ADA SIDE REACH = 48" MAX. & 15" MIN.
- SHelves: ADA = 48" MAX.
- COAT HOOKS: STANDARD = 68" ADA = 48" MAX.
- CHALKBOARDS & MARKERBOARDS: STANDARD = 32" TO 36" (TO B.O. BOARD OR CHALKTRAY). STANDARD = 80" (RECOMMENDED TO T.O. BOARD).
- THERMOSTATS & CONTROL DEVICES (TO TOP): ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX. LIGHT SWITCHES & CARD READERS (TO C.L.): LOCATE 6" FROM DOOR JAMB. ADA = 48" MAX.
- CONVENIENCE RECEPTACLES - ELECTRICAL/ TELEPHONE/ DATA (TO C.L.): STANDARD = 18" ADA = 15" MIN.
- EXIT LIGHTS - WALL MOUNTED: 2" MIN. BELOW CEILING. 2" MIN. ABOVE DOOR FRAME. EQUAL SPACE FROM CEILING TO TOP OF FRAME.
- FIRE EXTINGUISHERS (TO TOP, U.N.O.): GROSS WT. 40 LBS. OR LESS = 60" MAX. GROSS WT. MORE THAN 40 LBS. = 42" MAX. ADA = 40" MAX. (B.O. CABINET).
- FIRE ALARM PULL STATIONS (TO LEVER): STANDARD = 48" MAX. ADA FORWARD REACH = 48" MAX. ADA SIDE REACH = 48" MAX.
- SMOKE AND/OR HEAT DETECTORS: STANDARD = CEILING HEIGHT.
- HORN/ SPEAKER VISUAL SIGNALS: STANDARD = 80" AFF. OR BELOW CEILING - WHICHEVER IS LOWER.
- ROOM SIGNAGE (TO C.L.): STANDARD = 60" HIGH AFF. & WITHIN 18" OF LATCH SIDE OF DOOR.

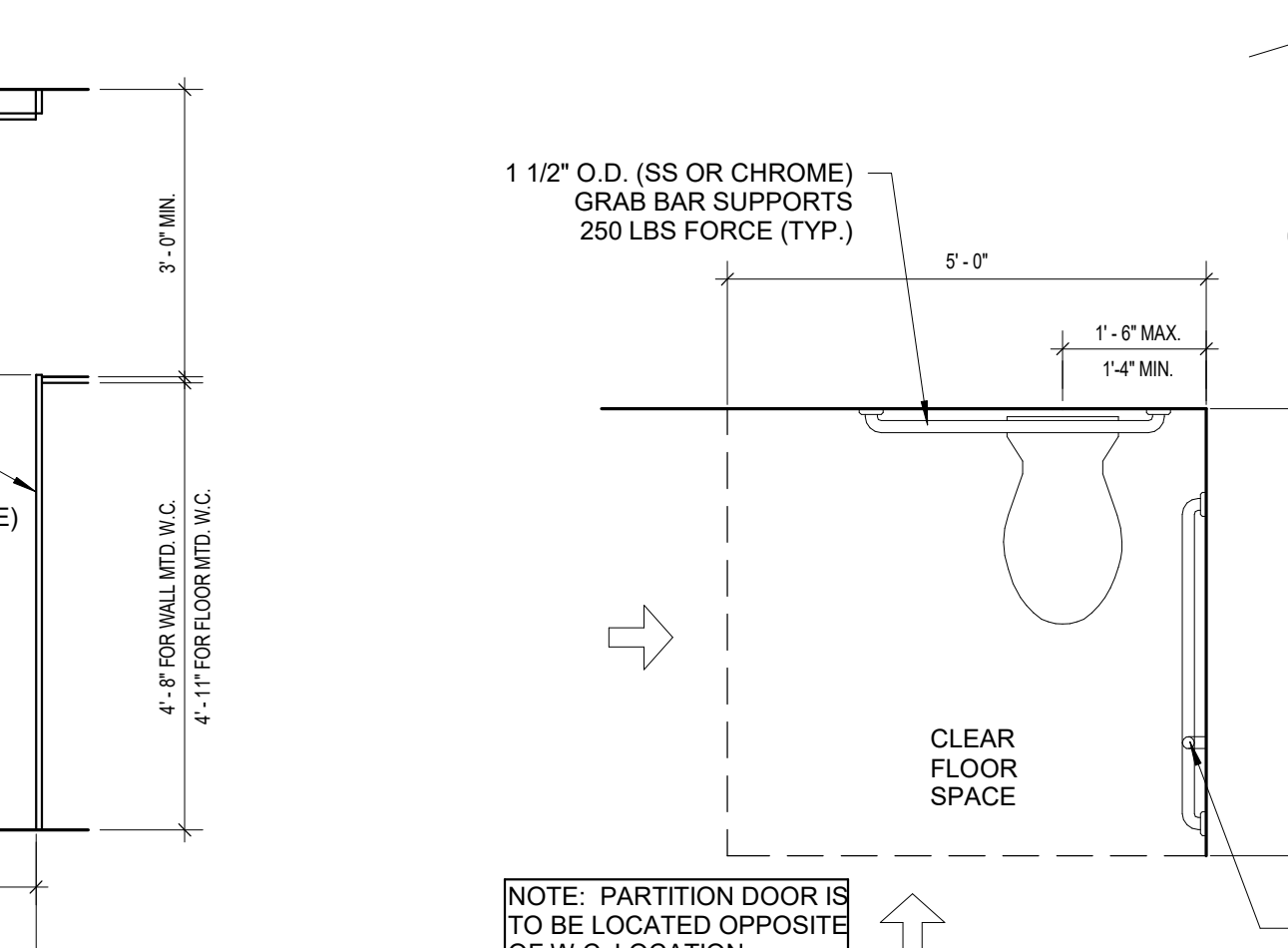
J10 FE CABINET
1/2" = 1'-0"



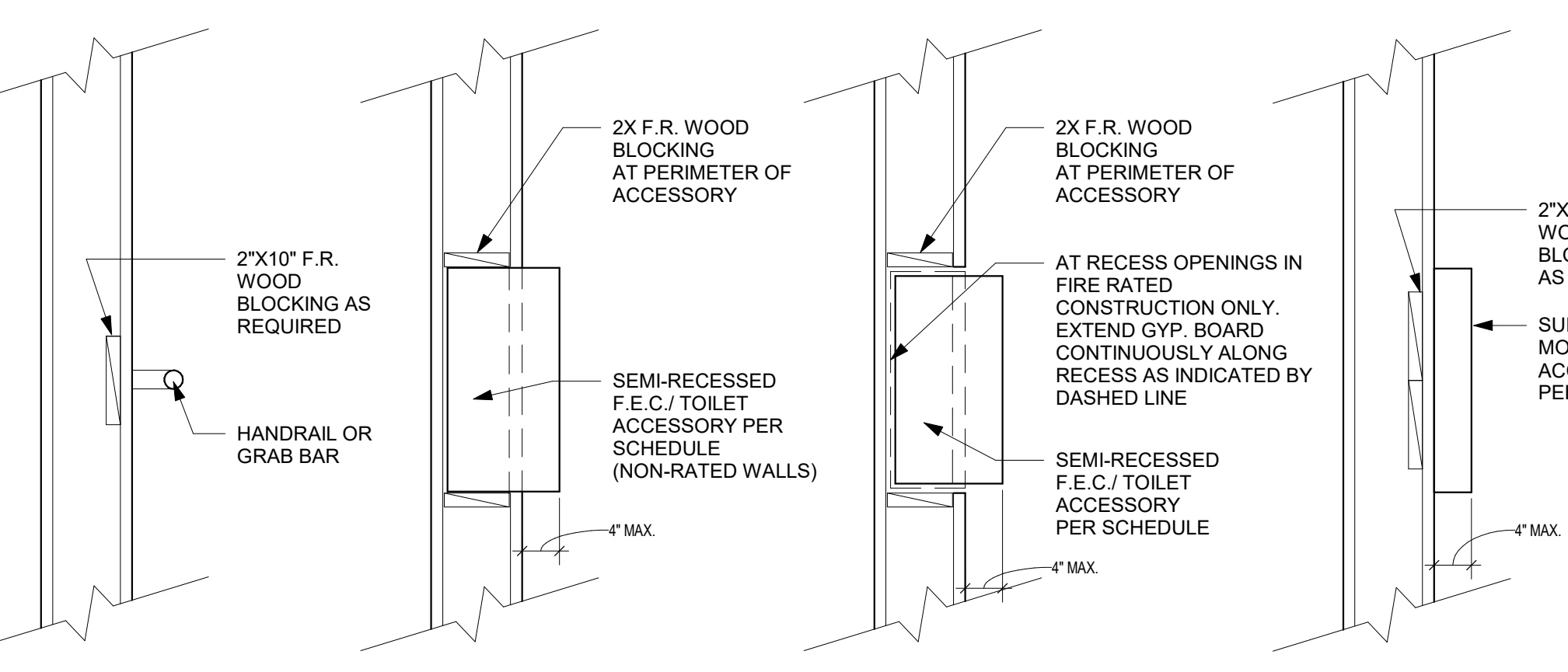
G10 FIRE EXTINGUISHER
1/2" = 1'-0"



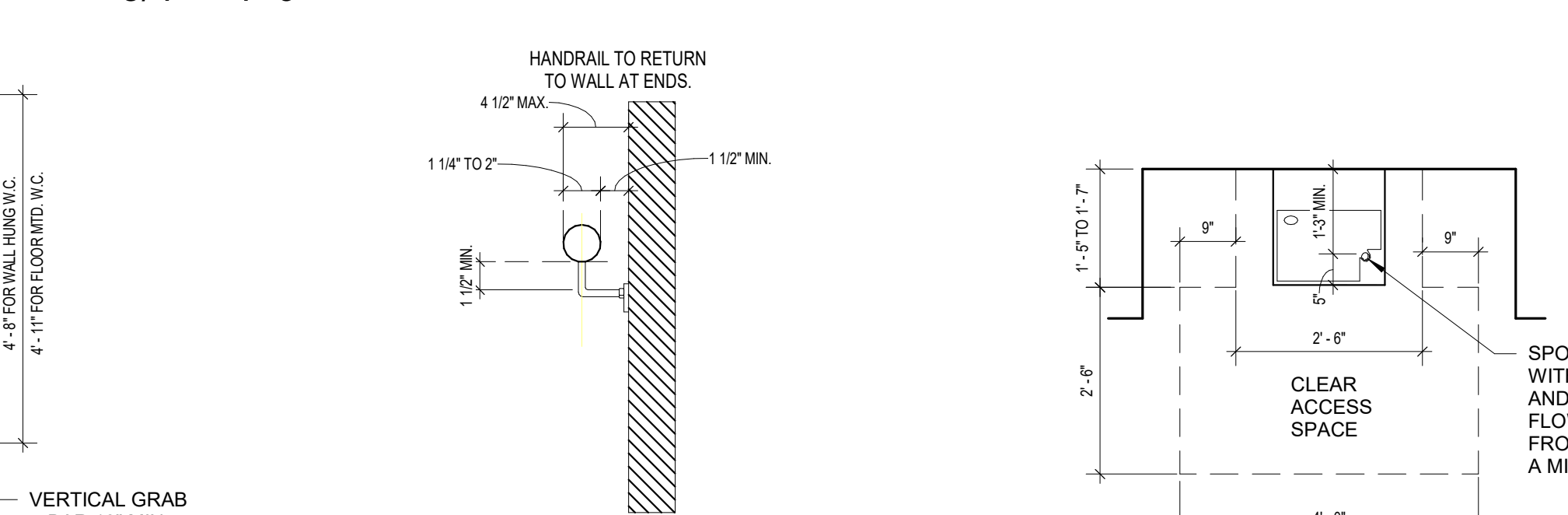
G9 HANDRAIL @ STAIRS AND RAMPS
3/4" = 1'-0"



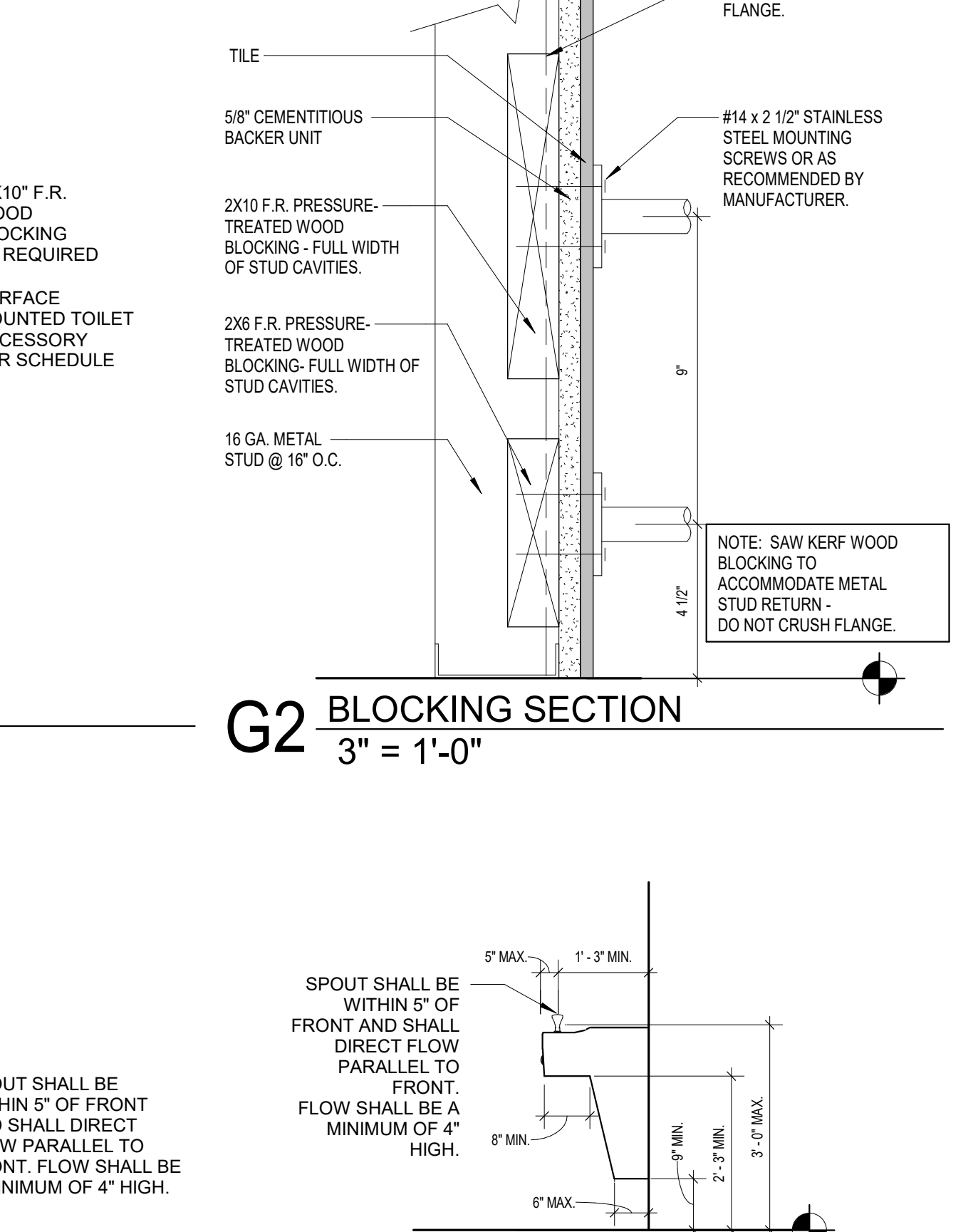
J7 TYP. DOOR APPROACH CLEARANCES
1/2" = 1'-0"



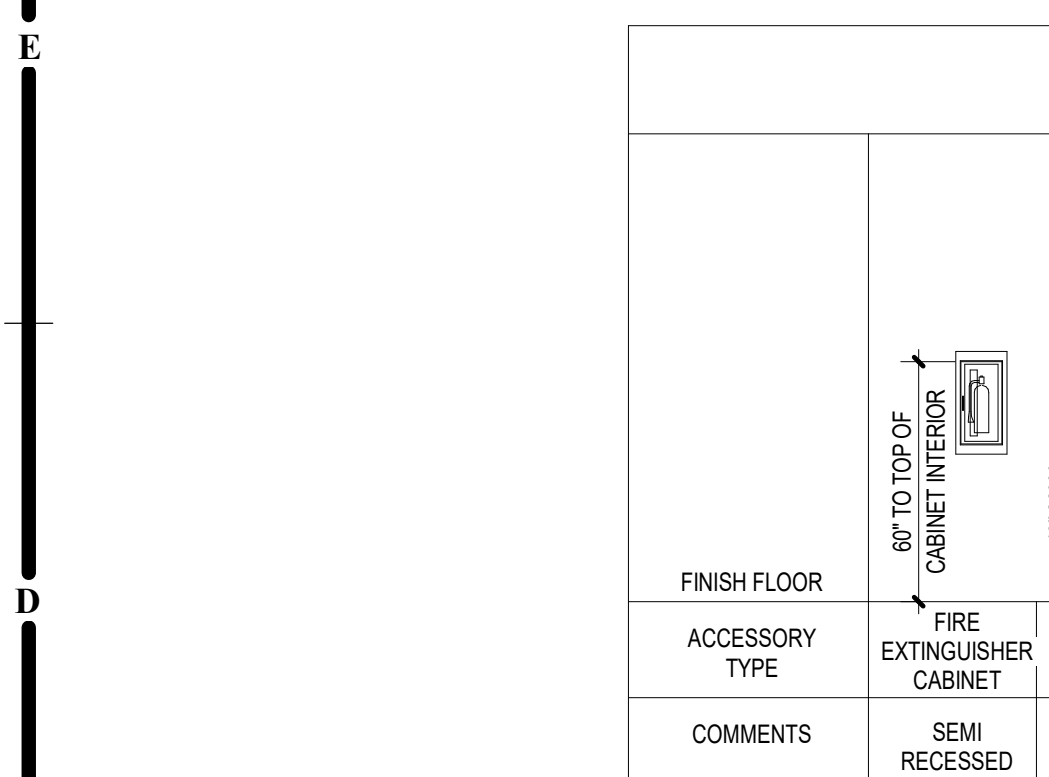
G7 TYPICAL BLOCKING DETAILS
3/4" = 1'-0"



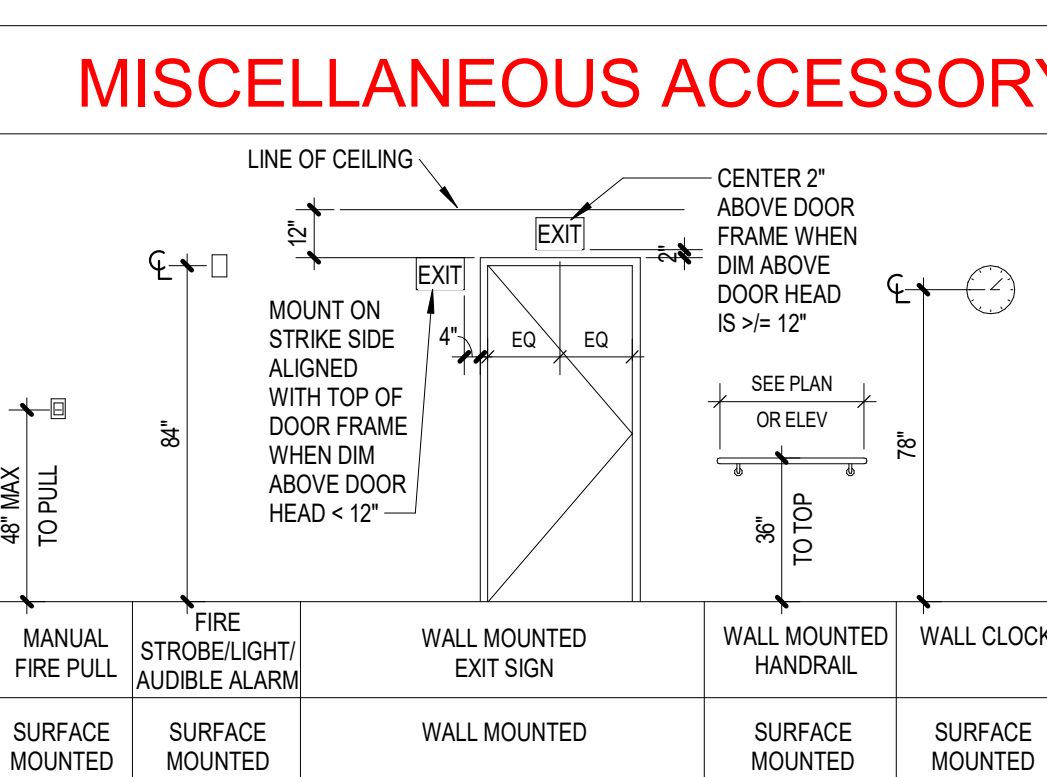
G2 BLOCKING SECTION
3" = 1'-0"



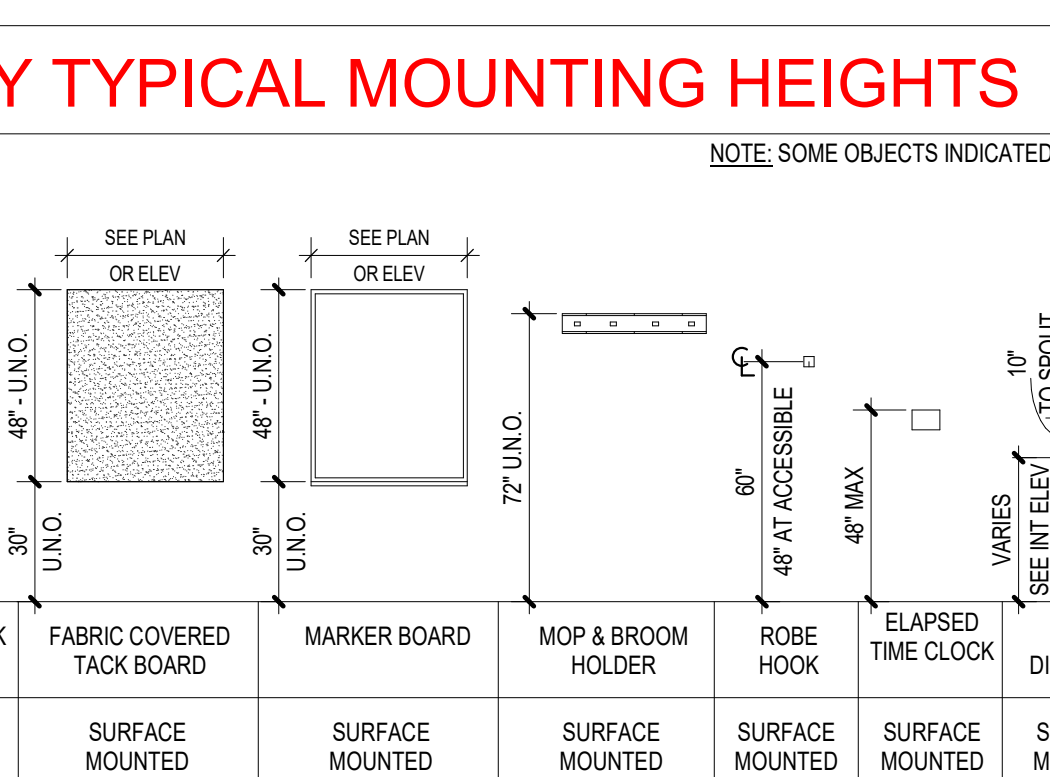
E12 SINK IN COUNTER CLEARANCES
1/2" = 1'-0"



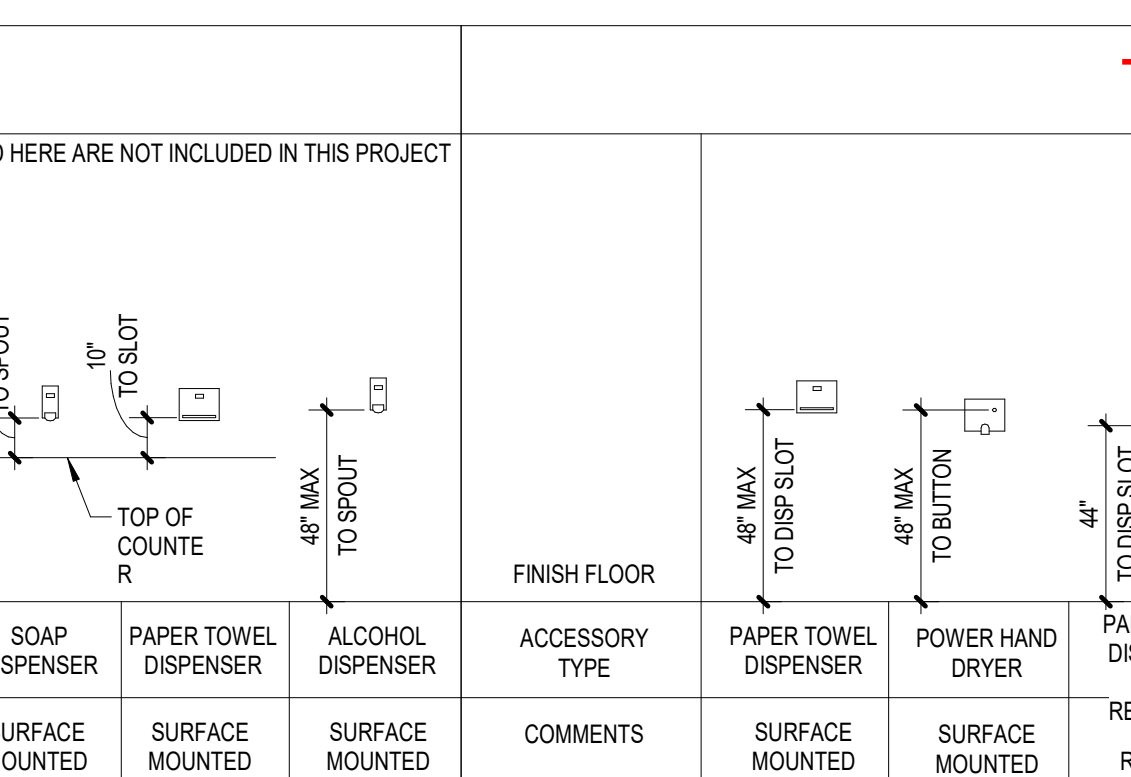
E10 ACCESSIBLE TOILET STALL
1/2" = 1'-0"



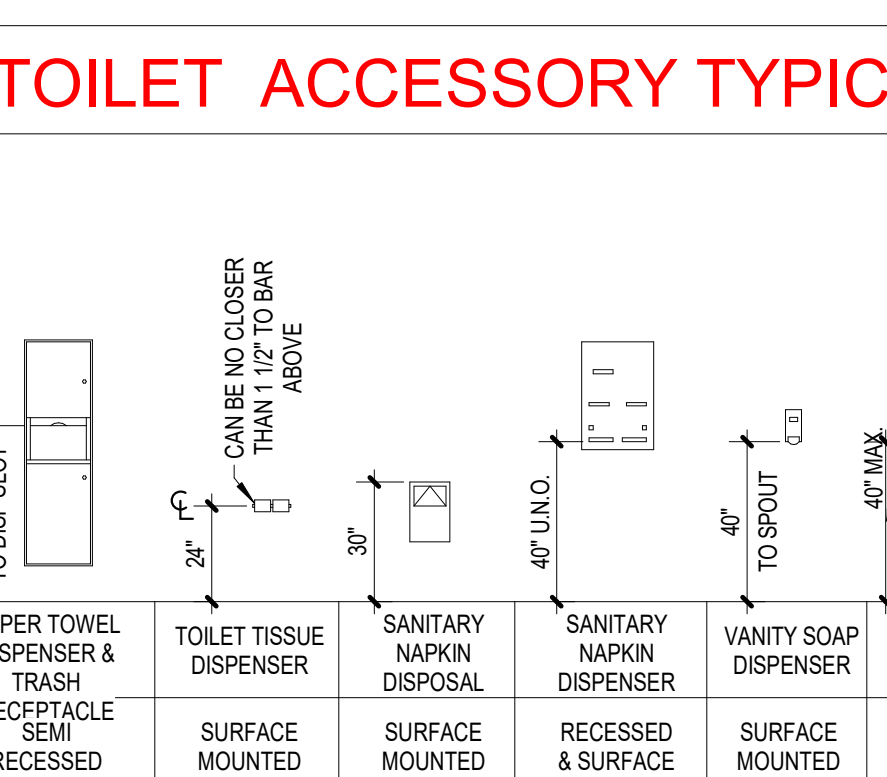
E8 ACCESSIBLE CLEAR FLOOR SPACE
1/2" = 1'-0"



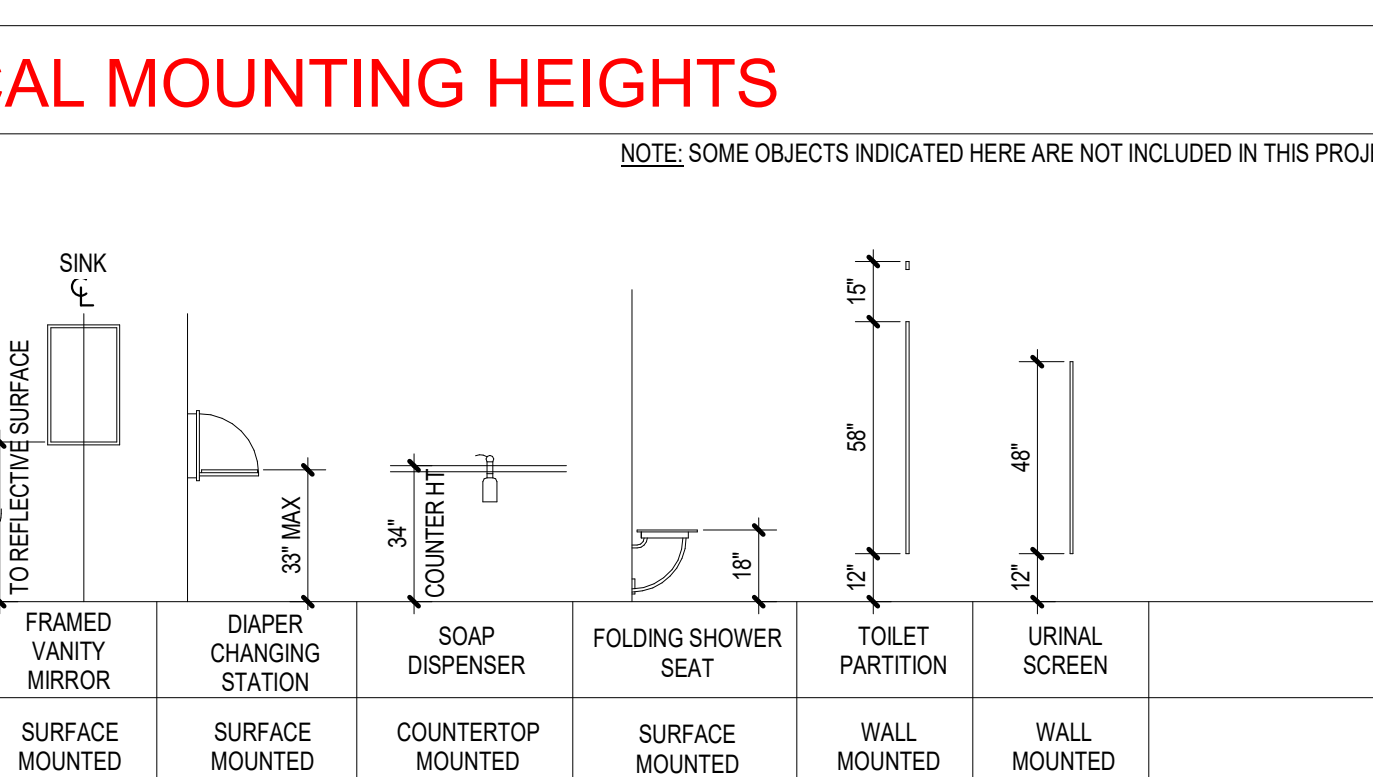
E6 HANDRAIL CLEARANCES
1 1/2" = 1'-0"



E4 E.W.C. - CLEAR SPACE
1/2" = 1'-0"



E2 E.W.C. - SECTION
1/2" = 1'-0"



MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT									
FINISH FLOOR	ACCESSORY TYPE	60" TO TOP OF CABINET INTERIOR	48" MAX. TO PULL	84"	12"	48" U.N.O.	48" U.N.O.	12" U.N.O.	60"
ACCESSORY TYPE	FIRE EXTINGUISHER CABINET	MANUAL FIRE PULL	FIRE STROBE/LIGHT/ AUDIBLE ALARM	WALL MOUNTED EXIT SIGN	WALL MOUNTED HANDRAIL	WALL CLOCK	FABRIC COVERED TACK BOARD	MARKER BOARD	MOP & BROOM HOLDER
COMMENTS	SEMI RECESSED	SURFACE MOUNTED	SURFACE MOUNTED	WALL MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED

MISCELLANEOUS ACCESSORY TYPICAL MOUNTING HEIGHTS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT									
FINISH FLOOR	ACCESSORY TYPE	60"	48" MAX.	48"	48" MAX.	48" MAX.	48" MAX.	48" MAX.	48"
ACCESSORY TYPE	CLOSET HANGAR ROD & SHELF	WALL PHONE	TELEPHONE HOUSING	CUP DISPENSER	WALL SWITCH	TELEPHONE OUTLET	RECEPTACLE/ TELEPHONE/ DATA	RECEPTACLE/ TELEPHONE/ DATA	SPECIALTY EQUIP (IE THERMOSTAT CARD READER, INTERCOM)
COMMENTS	WALL MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED

TOILET ACCESSORY TYPICAL MOUNTING HEIGHTS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT									
FINISH FLOOR	ACCESSORY TYPE	48" MAX. TO DISP. SLOT	48" MAX. TO BUTTON	44"	48" U.N.O.	48"	48" U.N.O.	48"	48"
ACCESSORY TYPE	PAPER TOWEL DISPENSER	POWER HAND DRYER	PAPER TOWEL DISPENSER & TRASH	TOILET TISSUE DISPENSER	SANITARY NAPKIN DISPOSAL	SANITARY NAPKIN DISPENSER	VANITY SOAP DISPENSER	FRAMED VANITY MIRROR	DIAPER CHANGING STATION
COMMENTS	SURFACE MOUNTED	SURFACE MOUNTED	SEMI RECESSED	SURFACE MOUNTED	SURFACE MOUNTED	RECESSED & SURFACE	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED

PLUMBING FIXTURE TYPICAL MOUNTING HEIGHTS

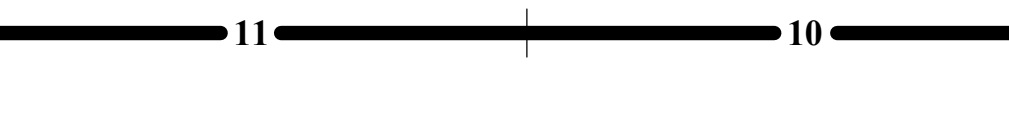
NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT									
FINISH FLOOR	ACCESSORY TYPE	40" U.N.O.	78" U.N.O.	78" U.N.O.	34"	34"	30" MAX. TO SPOUT	38"	38" MAX. TO SPOUT
ACCESSORY TYPE	SHOWER MIXING VALVE	SHOWER HEAD	HAND HELD SHOWER	LAVATORY	LAVATORY	CHILDREN'S DRINKING FOUNTAIN	SINGLE DRINKING FOUNTAIN	DOUBLE DRINKING FOUNTAIN	TOILET
COMMENTS	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	COUNTER MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL/FLOOR MOUNTED

GRAB BAR TYPICAL MOUNTING HEIGHTS & TOILET ACCESSORY PLANS

NOTE: SOME OBJECTS INDICATED HERE ARE NOT INCLUDED IN THIS PROJECT				
FINISH FLOOR	ACCESSORY TYPE	ADA TOILET GRAB BAR	SHOWER STALL GRAB BAR	ROLL-IN SHOWER STALL GRAB BAR
COMMENTS	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED

ACCESSORY TYPE	TYPICAL ACCESSORIES AT ACCESSIBLE TOILET	TYPICAL ADA SINK ENCLOSURE PANEL CLEARANCE
COMMENTS	NOTE: SANITARY NAPKIN DISPOSAL AT WOMEN'S & UNISEX ONLY	

A11 TYPICAL MOUNTING HEIGHTS
1/4" = 1'-0"



UL Product iQ™

BXUV.L511 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States

Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design Criteria and Allowable Variances

Design No. L511

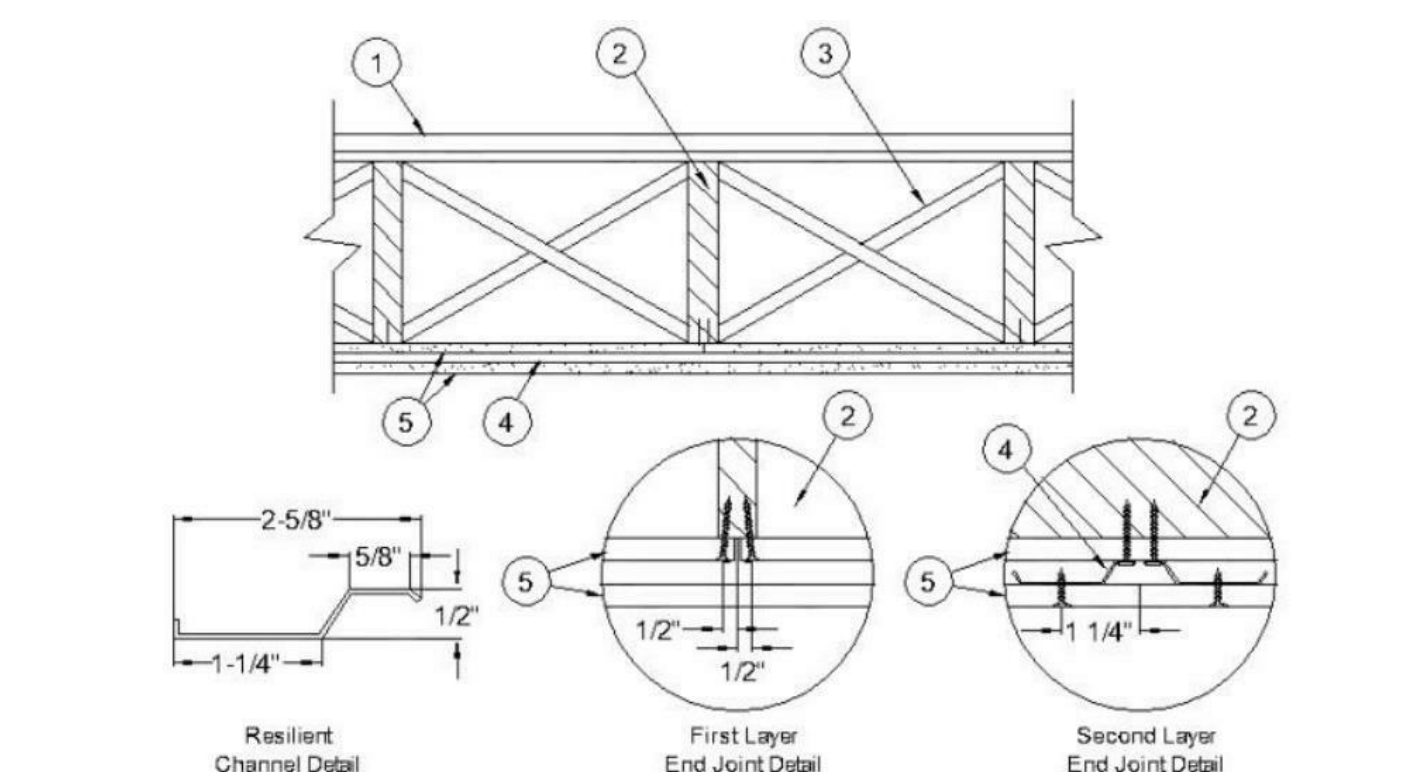
February 14, 2022

Unrestrained Assembly Rating - 2 Hr.

Finish Rating - 71 Min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used - See Guide BXUV or BXUV7.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Flooring Systems** - The flooring system shall consist of one of the following:

Subflooring - Min 1 by 6 in. T & G lumber fastened diagonally to joists.

Vapor Barrier - Nom 0.010 in. thick commercial resin-sized building paper.

Finish Flooring - Min 1 by 3 in. T & G and end matched, laid perpendicular to joists.

System No. 2

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.010 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture - Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO - Types LRL, HSLR, CSD

USG MEXICO S A DE CV - Types LRL, HSLR, CSD

Floor Mat Materials - (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO - Types SAM, LEVERLOCK® Brand Sound Reduction Board, LEVERLOCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials - (Optional) - Nom 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under **Floor Topping Mixture**.

GRASSWORK L L C - Type SC50

System No. 3

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.

Finish Flooring - Min 15/32 in. wood structural panels, min grade "Underlayment" or "Single Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

System No. 4

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.

Finish Flooring - Floor Topping Mixture - Min 1-1/2 in. thickness of floor topping mixture having a minimum compressive strength of 1000 psi and a cast density of 105 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1-1/4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

ELASTIZELL CORP OF AMERICA - Type FF

System No. 5

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.

Floor Mat Materials - (Optional) - Floor mat material Nom 5/64 in. (2mm) thick adhered to subfloor with Hucker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. of floor-topping mixture.

HACKER INDUSTRIES INC - Type Hacker Sound-Mat.

Alternate Floor Mat Materials - (Optional) - Floor mat material Nom 3/8 in. (6mm) thick adhered to subfloor with Hucker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32mm) of floor-topping mixture.

HACKER INDUSTRIES INC - Type Hacker Sound-Mat II.

Alternate Floor Mat Materials - (Optional) - Floor mat material Nom 1/8 in. (3mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mm)

HACKER INDUSTRIES INC - FRM-RLL SCM 125

Alternate Floor Mat Materials - (Optional) - Floor mat material Nom 1/4 in. (6mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mm)

HACKER INDUSTRIES INC - Type FRM-RLL SCM 250, Quiet Quil 55/025

Alternate Floor Mat Materials - (Optional) - Floor mat material Nom 3/8 in. (10mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32mm)

HACKER INDUSTRIES INC - FRM-RLL SCM 400, Quiet Quil 60/040

Alternate Floor Mat Materials - (Optional) - Floor mat material Nom 3/4 in. (19mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38mm)

HACKER INDUSTRIES INC - Type FRM-RLL SCM 750, Quiet Quil 65/075

Metal Lath - (Optional) - For use with 3/8 in. (10mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3-4 lbs/sq yd placed over the floor mat material. Hucker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness is a min 1-1/4 in. over the floor mat.

Finish Flooring - Floor Topping Mixture - Min 3/4 in. in. thickness of floor topping mixture for min 15/32 in. min 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

HACKER INDUSTRIES INC - Firm-FH Gypsum Concrete, Firm-FH 2010, Firm-FH 4010, Firm-FH High Strength, Gyp-Span Radiant, Firm-FH 3310

System No. 6

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Retarder - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

System No. 7

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Retarder - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture - Min 3/4 or 1 in. thickness of floor topping mixture for min 15/32 or min 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Mixture shall consist of 5 to 8 gal of water to 80 lbs of floor topping mixture to 2.1 cu ft of sand.

ULTRA QUIET FLOORS - Types UQF-A, UQF-Super Blend, UQF-PH 200

System No. 8

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture - Min 3/4 thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

MAXXON CORP - Type Maxxon Standard and Maxxon High Strength

Floor Mat Materials - (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

MAXXON CORP - Type Encased and Sound Mat

Floor Mat Reinforcement - (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath - (Optional) - 3/8 in. expanded galvanized steel diamond mesh, 3-4 lbs/sq yd loose laid over the floor mat material.

Fiber Glass Reinforcement - (Optional, Not Shown) - 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs/sq yd loose laid over the floor mat material.

System No. 9

Subflooring - Min 15/32 in. thick wood structural panels, min grade C-D or Sheathing. Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.

Finish Flooring - Floor Topping Mixture - Min 3/4 floor topping mixture, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

FORMULATED MATERIALS LLC - Types FR-25, FR-30, and SiteMix

System No. 10

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Finish Floor - Mineral and Fiber Board - Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.

HOMASOTE CO - Type 440-32 Mineral and Fiber Board

System No. 11

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture - Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 105 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.2 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, and 300 lbs of sand with 5.5 gal of water.

AERIX INDUSTRIES - Floor Topping Mixture

System No. 12

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.

Finish Flooring - Floor Topping Mixture - Min 3/4 floor topping mixture, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ARCOSA SPECIALTY MATERIALS - Types NexGen, Green, Prime and PreFloor, AccuAdhant®, AccuLevel® Types G40, G50 and S300

Alternate Floor Mat Materials - (Optional) - Floor mat material nominal 2 x 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in. or 1 in. thickness of floor topping mixture for 15/32 or 15/32 in. thick wood structural panels respectively.

ARCOSA SPECIALTY MATERIALS - AccuQuat® Types D13, D-18, D25, DX38, EM 125, EM 125S, EM 250, EM 250S, EM 375, EM 375S, EM 750, and EM 750S.

System No. 13

Subflooring - 15/32 or 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture - Min 3/4 or 1 in. thickness of floor topping mixture for 15/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 2100 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

System No. 14

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.

Finish Flooring - Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor and Roof-Topping Mixtures (CCOI) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mats.

Floor Mat Materials - (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 55/025 and Quiet Quil 60/040 N

Alternate Floor Mat Materials - (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 60/040 and Quiet Quil 60/040 N

Alternate Floor Mat Materials - (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 65/075, Quiet Quil 65/075 N

Alternate Floor Mat Materials - (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 52/013 and Quiet Quil 50/013 N

Alternate Floor Mat Materials - (Optional) - Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC - Quiet Quil 55/025 MT and Quiet Quil 55/025 N MT

System No. 15

Subflooring - Min 1 by 6 in. T & G lumber fastened diagonally to joists.

Vapor Barrier - Nom 0.010 in. thick commercial resin-sized building paper.

Finish Flooring - Floor Topping Mixture - Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ARCOSA SPECIALTY MATERIALS - AccuCrete® Types NexGen, Green, Prime and PreFloor, AccuAdhant®, AccuLevel® Types G40, G50 and S300

Floor Mat Materials - (Optional) - Floor mat material nominal 2 x 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 1 in.

ARCOSA SPECIALTY MATERIALS - AccuQuat® Types D13, D-18, D25, DX38, EM 125, EM 125S, EM 250, EM 250S, EM 375, EM 375S, EM 750, and EM 750S

System No. 16

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.

Finish Flooring - Floor Topping Mixture - Min 3/4 floor topping mixture, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

DEFENDABLE LLC - GSI, M3A, GSI, K2A, GSI-CSD and GSI, RH

Floor Mat Materials - (Optional) - Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 55/025 and Quiet Quil 55/025 N

Alternate Floor Mat Materials - (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 60/040 and Quiet Quil 60/040 N

Alternate Floor Mat Materials - (Optional) - Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 65/075, Quiet Quil 65/075 N

Alternate Floor Mat Materials - (Optional) - Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC - Type Quiet Quil 52/013 and Quiet Quil 50/013 N

Alternate Floor Mat Materials - (Optional) - Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC - Quiet Quil 55/025 MT and Quiet Quil 55/025 N MT

System No. 17

Subflooring - Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier - (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier - (Optional) - Nom 0.010 in. thick commercial resin-sized building paper.

Finish Flooring - Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor and Roof-Topping Mixtures (CCOI) category for names of Classified Companies.

Floor Mat Materials - (Optional) - Nom 3/32 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

PLITEQ INC - Type GenieMat RS302

Floor Mat Materials - (Optional) - Nom 3/16 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

PLITEQ INC - Type GenieMat FR20NP

Floor Mat Materials - (Optional) - Nom 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

PLITEQ INC - Type GenieMat FR06

Floor Mat Materials - (Optional) - Nom 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

PLITEQ INC - Type GenieMat FF10

Floor Mat Materials - (Optional) - Nom 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

PLITEQ INC - Type GenieMat FF17

Floor Mat Materials - (Optional) - Nom 1 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

PLITEQ INC - Type GenieMat FF25

System No. 18

Subflooring - Structural Cement-Fiber Units - Nominal 19 mm (3/4 in.) thick tongue and groove structural cement-fiber units. Long dimension of panels to be perpendicular to joists with end joints staggered. Panels fastened to the joists with #10 self-drilling, self-tapping cement board screws 1-1/4 in. long. Screws shall be spaced 6 in. OC along the perimeter of each sheet and 12 in. OC in the field of each sheet. Screws shall be spaced 1/2 in. from end joints and 1 in. from side joints.

ECTEK INTERNATIONAL INC - Armoform Panel

Subflooring (Alternate) - Building Units - Nom 3/4 in. thick, tongue and groove boards. Long dimension of boards to be perpendicular to joists with end joints staggered a min of 4 ft. and centered over end joints. Boards secured to joists with 1-1/4 in. long self-drilling, self-tapping screws or 2 in. x 0.113 in. long Shank nails spaced a max of 12 in. OC in the field with screws/nails located 1 in. from long edge, and max 8 in. OC along the end joints with screws/nails located 1/2 in. from end joint.

ECTEK INTERNATIONAL INC - Type Megaboard

Vapor Barrier - Nom 0.010 in. thick commercial resin-sized building paper.

Finish Flooring - Min 1 by 3 in. T & G and end matched.

System No. 19

Structural Cement-Fiber Units - For use with **UNITED STATES GYPSUM CO** gypsum boards only. Nom 3/4 in. thick, with long edges tongue and groove. Long dimension of panels to be perpendicular to wood trusses with end joints staggered a min of 2 ft and centered over the trusses. Panels secured to wood trusses with 1-5/8 in. long, Nom 8, self-countersinking wood screw spaced a max of 12 in. OC in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the end edges of the panel.



3075 SW Market Street, Lee's Summit, MO 64063 P 816.949.2270
(www.collinswebb.com)

MAN STREET BUILDING IMPROVEMENTS

230 SW MAIN ST.
LEES SUMMIT, MO 64063

PERMIT DOCUMENTS

REVISION DATES:

04/21/22

PROFESSIONAL SEAL

COLLINS WEBB ARCHITECTURE, LLC

ISSUE DATE: 21 APRIL, 2022

COLLINS WEBB #: 21121

GENERAL PROJECT SPECIFICATIONS

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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 PROJECT MANAGER. FORM CAN BE REQUESTED FROM ARCHITECT.
2. A CONDENSED SET OF SPECIFICATIONS ARE PROVIDED FOR THE PROJECT. STRICT ADHERANCE TO MANUFACTURER REQUIREMENTS AND INSTALLATION ARE REQUIRED TO BE FOLLOWED WITH SECTIONS PROVIDED WITHIN. IF REQUIRED THE ARCHITECT WILL ISSUE ADDITIONAL SECTIONS TO PROVIDE CLARITY TO PRODUCTS OR INSTALLATION REQUIREMENTS.

DIVISION 1 - GENERAL REQUIREMENTS

1. SEE ADDITIONAL 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. UTILITY FEES

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.

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 DRAWING AND ANY SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. NOTWITHSTANDING, DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ARCHITECT'S AND OWNERS ATTENTION AND CLARIFIED DURING THE BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN OR PROPOSED IN THE MORE COSTLY OR DIFFICULT QUALITY OR GREATER QUANTITY OF THE WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH ARCHITECT'S INTERPRETATION.
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 ATTENTION. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR HAVE AND 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 HAVE AND CONTROL OVER ALL JOB SITE SAFETY PROCEDURES AND POLICES. 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 ANY OBLIGATION HEREUNDER. IF ANY WORK FAILS TO CONFORM TO THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY REMEDY AND REPLACE THE SAME AT THE CONTRACTOR'S EXPENSE AND 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 NOT CONDUCT ITS OPERATIONS AS NOT TO UNREASONABLY INTERFERE WITH TRAFFIC ON PUBLIC THOROUGHFARES ADJACENT OR NEAR TO THE PROJECT SITE.
7. DO NOT SCALE DRAWINGS.

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 CAMERA WITH DATE STAMP CAPABILITY AND WITH PROPER CABLES TO ATTACH TO LAPTOP
 - C. EMAIL ACCESS THROUGH THE LAPTOP
 - D. A PRINTER/SCANNER/MF MACHINE WITH PROPER CABLES TO ATTACH TO LAPTOP
 - E. CELL PHONE
3. THE GENERAL CONTRACTOR SHALL HAVE A CONSTRUCTION SUPERINTENDENT ASSIGNED TO THIS PROJECT, AND THIS SUPERINTENDENT SHALL HAVE THE NECESSARY CONSTRUCTION SKILLS AND KNOWLEDGE TO SUPERVISE THE WORK. 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 SPECIFICALLY REQUESTED TO BE REPLACED BY OWNER & ARCHITECT.
4. THE SUPERINTENDENT WILL BE REQUIRED TO PROVIDE PHOTOGRAPHS (VIA EMAIL USING A DIGITAL CAMERA) TO THE OWNER & ARCHITECT EACH FRIDAY BY NOON CST, SHOWING THE PROGRESS OF CONSTRUCTION. THE GENERAL CONTRACTOR IS ENCOURAGED TO TAKE PHOTOS DURING CONSTRUCTION TO ASSIST IN THE PROGRESS OF CONSTRUCTION PROGRESS. RECORD UNCOVERED CONDITIONS, RECORD CONDITION AND AMOUNTS OF VENDOR GOODS UPON RECEIPT, AND RECORD CONSTRUCTION THAT VARIES FROM THE CDS (AS PART 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 HIS TRADESMEN, SUBCONTRACTORS, AND SUPPLIERS. EXCELLENCE IN QUALITY OF CONSTRUCTION CAN ONLY BE ACHIEVED IF THE CONTRACTOR EMPHOSIS HIGH STANDARDS OF ACCEPTABILITY. THE GENERAL CONTRACTOR CANNOT DELEGATE HIS RESPONSIBILITY TO THE SUBCONTRACTORS, BUT MUST CONTINUALLY MONITOR THE WORK OF EACH TRADE OR THE PROJECT.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST AND SCHEDULE ALL AGENCIES HAVING JURISDICTION (AHJ) INSPECTIONS NECESSARY TO OBTAIN THE CERTIFICATE OF OCCUPANCY (CERTIFICATE OF COMPLIANCE). PRIOR TO THE DATE OF THE AGENCY INSPECTION, THE GENERAL CONTRACTOR SHOULD INSPECT THE PROJECT TO INSURE THAT THE CONSTRUCTION MEETS WITH THE REQUIREMENTS. SCHEDULING FINAL INSPECTIONS WITH AGENCY REPRESENTATIVES WHEN THE PROJECT IS NOT COMPLETE MUST BE AVOIDED. COPIES OF FINAL INSPECTIONS MUST BE PROVIDED TO OWNER & ARCHITECT AS THEY ARE AVAILABLE.
3. PRIOR TO REQUESTING THE AGENCY 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. THE 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
 - G. FLOORING CONTRACTOR
5. ITEMS TO BE SUBMITTED AS A PRE-REQUISITE TO THE REQUEST FOR THE CERTIFICATE OF SUBSTANTIAL COMPLETION AND OWNER ARCHITECTS MUST BE COMPLETED AND CORRECTED.
 - A. GENERAL CONTRACTOR PUNCH LISTS
 - B. HVAC TEST AND BALANCE REPORT
 - C. SPRINKLER SYSTEM TEST AND BALANCE INSPECTION REPORT
 - D. COPY OF VIDEO OF COMPLETED SEWER SYSTEM
6. THE REVIEW TEAM SHOULD PROCEED IN AN ORGANIZED MANNER THROUGHOUT THE BUILDING INSPECTING EACH SPACE OR ROOM. THE PUNCH LIST GENERATED BY THE SUBSTANTIAL COMPLETION TOUR IS TO BE PREPARED BY THE GENERAL CONTRACTOR, ALONG WITH THE PUNCH LIST, THE ARCHITECT SHALL PREPARE THE CERTIFICATE OF SUBSTANTIAL COMPLETION.
7. IMMEDIATELY AFTER RECEIPT OF THE PUNCH LIST, THE GENERAL CONTRACTOR AND SUBCONTRACTORS ARE EXPECTED TO BEGIN CORRECTION OF THE OUTSTANDING ITEMS AFTER COMPLETION OF PUNCHLIST. THE CONTRACTOR SHALL NOTIFY OWNER & ARCHITECT IN WRITING THAT FULL LIST OF ITEMS TO BE COMPLETED AND OR CORRECT IS FINALIZED.

H. RECORD CLOSE-OUT DOCUMENTS

1. THE OWNER REQUESTS THE GENERAL CONTRACTOR AND SUBCONTRACTORS TO MAINTAIN AN ACCURATE, CURRENT SET OF RECORD DOCUMENTS (AS-BUILTS) AS CONSTRUCTION PROGRESSES, ALL PERTINENT INFORMATION RELATING TO THE PROJECT MUST BE TIMELY MAINTAINED ON THE AS-BUILTS. 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 ACTUAL CONSTRUCTION OF THE PROJECT.
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 AS IDENTIFIED DURING THE ON-SITE MONTHLY REVIEW WILL BE CAUSE TO SUSPEND PAYMENT UNTIL RECTIFIED. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENFORCE THE TIMELY POSTING OF AS-BUILT 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 COMPLY WITH ALL CLOSE-OUT DOCUMENTS AND SUBMIT TO THE OWNER FOR REVIEW. IF THE CONTRACTOR FAILS TO COMPLETE ITS REQUIREMENTS WITHIN THIS TIMELINE 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 DISK WITH ALL PHOTOS TAKEN DURING CONSTRUCTION
 - B. CHANGE ORDERS AND ALL ADDENDA ATTACHED AND POSTED TO THE AS-BUILT DRAWINGS
 - C. AS-BUILT DRAWINGS: ONE HARD COPY TO REMAIN ON SITE AND IN PLANT TUBE; ONE ELECTRONIC COPY TO BE SENT WITH CLOSE-OUT PAPERWORK
2. MATERIALS SELECTION DATA - PROVIDE ALL APPROVED SUBMITTALS
3. OPERATION AND MAINTENANCE MANUALS (OMM) - PROVIDE OMM MANUALS BOXED AND BOUND. THIS ITEM IS OF SIGNIFICANT IMPORTANCE TO MAINTURE MAINTENANCE ACTIVITIES.
4. ALL HVAC TEST AND BALANCE REPORTS
5. RELEASE OF LIEN (AIA FORM 706), PAYMENT OF DEBT (AIA FORM 706)
6. WARRANTIES, CERTIFICATES, AFFIDAVITS
7. 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 AS-BUILT DOCUMENTS WILL BE ORIGINAL WITH RED LETTERING ON THE BOTTOM OF THE FORM AND NOTARIZED. IF THE ELECTRONIC VERSION IS USED A COPY WITH ORIGINAL SIGNATURES WILL BE SUBMITTED. 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 706 AND A "PAYMENT OF DEBT-AIA FORM 706" IS INCLUDED FOR EACH AND EACH SUBCONTRACTOR.
8. AN ANNOTATED COPY OF THE SUBSTANTIAL COMPLETION PUNCH LIST INDICATING ACTION TAKEN ON EACH ITEM.
9. C. WARRANTIES, CERTIFICATES AND AFFIDAVITS 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).
 - A. ACI 503.1-02 - SPECIFICATION FOR MASONRY FOR MASONRY STRUCTURES.
 - B. ASTM INTERNATIONAL (ASTM).
 - A. ASTM C 144 - STANDARD SPECIFICATION FOR AGGREGATE FOR MASONRY MORTAR.
 - J. ASTM C 150 - STANDARD SPECIFICATION FOR PORTLAND CEMENT.
 - K. ASTM C 207 - STANDARD SPECIFICATION FOR HYDRATED LIME FOR MASONRY PURPOSES.
 - D. ASTM C 286 - STANDARD SPECIFICATION FOR AIR-ENTRANING ADMIXTURES FOR CONCRETE.
 - E. ASTM C 270 - STANDARD SPECIFICATION FOR PRE-BLENDED DRY MORTAR MIX FOR MASONRY.
 - F. ASTM C 595 - STANDARD SPECIFICATION FOR BLENDED HYDRAULIC CEMENTS.
 - G. ASTM C 780 - STANDARD TEST METHOD FOR PRECONSTRUCTION AND CONSTRUCTION EVALUATION OF MORTARS FOR PLAN AND NEW MORTAR.
 - H. ASTM C 979 - STANDARD SPECIFICATION FOR PIGMENTS FOR INTEGRALLY COLORED CONCRETE.
 - I. ASTM C 1093 - STANDARD PRACTICE FOR ACCREDITATION OF TESTING AGENCIES FOR UNIT MASONRY.
 - J. ASTM C 1157 - STANDARD PERFORMANCE SPECIFICATION FOR HYDRAULIC CEMENT.
 - K. ASTM C 1314 - STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF MASONRY PRISMS.
 - L. ASTM C 1598 - STANDARD GUIDE FOR QUALITY ASSURANCE OF MORTARS.
 - M. ASTM C 1714 - STANDARD SPECIFICATION FOR PRE-BLENDED DRY MORTAR MIX FOR UNIT MASONRY.
 - N. ASTM C 329 - SPECIFICATION FOR MINIMUM REQUIREMENTS FOR AGENCIES ENGAGED IN THE TESTING AND/OR INSPECTION OF MATERIALS USED IN CONSTRUCTION.
 - O. ATTACHMENT TO BUILDING CONSTRUCTION.
 - P. STRUCTURAL PERFORMANCE - RALINGS, INCLUDING ATTACHMENT TO BUILDING CONSTRUCTION, SHALL WITHSTAND THE EFFECTS OF GRAVITY LOADS AND THE FOLLOWING LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED.
 - 2. HANDRAILS AND TOP RAILS OF GUARDS.
 - A. UNIFORM LOAD OF 50 LBF/FT (0.75 K/IN) APPLIED IN ANY DIRECTION.
 - B. CONCENTRATED LOAD OF 200 LBF (168 KN) APPLIED IN ANY DIRECTION.
 - C. UNIFORM AND CONCENTRATED LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY.
2. THE BRICK INDUSTRY ASSOCIATION (BIA).
 - 1. BIA TECHNICAL NOTE 20 - CLEANING BRICK.

B. SUBMITTALS

1. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA.
2. QUALITY ASSURANCE/CONTROL, SUBMITTALS.
 - A. SUBMIT MANUFACTURER'S CERTIFICATION THAT PRODUCTS MEET OR EXCEED SPECIFIED REQUIREMENTS.
 - B. SUBMIT TEST RESULTS PREPARED BY A QUALIFIED INDEPENDENT TESTING LABORATORY.
3. 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 COMPLIANCE WITH THE FOLLOWING PERFORMANCE REQUIREMENTS.
 - 3. PRE-INSTALLATION 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 DETAILING AND SEQUENCE OF WORK TO BE PERFORMED.
4. THE BRICK INDUSTRY ASSOCIATION (BIA).
 - 1. THE BRICK INDUSTRY ASSOCIATION (BIA).
 - 1. BIA TECHNICAL NOTE 20 - CLEANING BRICK.

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 FROZEN SUBSTRATES.
 - 1. REMOVE AND REPLACE MORTAR DAMAGED BY FROST OR BY FREEZING CONDITIONS.
 - 3. TEMPORARY HEATERS TO EXTERIOR TO PREVENT DAMAGE TO MASONRY WORK FROM CARBON DIOXIDE BUILD-UP.

E. PRODUCTS

1. FOR NON-GALVANIZED STEEL RAILINGS, PROVIDE NONGALVANIZED FERROUS METAL FITTINGS, BRACKETS, FASTENERS, AND SLEEVES; HOWEVER, GALVANIZE ANCHORS TO BE EMBEDDED IN UNEXPOSED CONCRETE OR MASONRY.
2. PREPARATION FOR SHOP PRIMING: PREPARE UNCOATED FERROUS/METAL SURFACES TO COMPLY WITH SSPC-SP 3 "POWER TOOL CLEANING".
3. PRIMER APPLICATION: APPLY SHOP PRIMER TO PREPARED SURFACES OF RAILINGS UNLESS OTHERWISE INDICATED. COMPLY WITH REQUIREMENTS IN SSPC-PA 1 "SHOP FIELD AND MAINTENANCE PAINTING OF STEEL" FOR SHOP PAINTING. PRIMER NEED NOT BE APPLIED TO SURFACES TO BE EMBEDDED IN CONCRETE OR MASONRY.
4. MORTAR.
 - A. 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 1093, ASTM C 1157, ASTM C 1314, ASTM C 1598, ASTM C 1714, ACI 503.1, IMAC.

F. EXECUTION

1. EXAMINE SURFACES TO RECEIVE MASONRY WORK AND CONDITIONS UNDER WHICH MASONRY WILL BE INSTALLED. DO NOT PROCEED WITH MASONRY WORK 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 MEANS OF A TOOTHING CHISEL OR A SPECIAL POINTERS GRINDER, TO A UNIFORM DEPTH OF TO 3/4-INCH (19 MM), OR UNLESS SPECIFICALLY REQUESTED TO BE REPLACED BY OWNER & ARCHITECT.
 - 1. TAKE CARE TO NOT DAMAGE EDGES OF EXISTING MASONRY UNITS TO REMAIN.
 - 2. REMOVE DUST AND DEBRIS FROM THE JOINTS BY BRUSHING, BLOWING WITH AIR OR RINSING WITH WATER, DO NOT RINSE WHEN TEMPERATURE IS BELOW FREEZING.
2. REPLACEMENT OF MASONRY UNITS.
 - A. IF THE MASONRY IS DAMAGED, SPALLED, LOOSE OR DETERIORATED MASONRY UNITS, CAREFULLY REMOVE ENTIRE UNITS FROM JOINT TO JOINT, WITHOUT DAMAGING SURROUNDING MASONRY, IN A MANNER THAT PERMITS REPLACEMENT WITH FULL SIZE UNITS.
 - 3. SUPPORT AND PROTECT REMAINING MASONRY THAT SURROUNDS REMOVAL AREA, MAINTAIN FLASHING, REINFORCEMENT, LINTELS, AND ADJOINING CONSTRUCTION IN AN UNDAUNTED CONDITION.
 - 4. CLEAN MASONRY UNITS SURROUNDING REMOVAL AREAS BY REMOVING MORTAR, DUST, AND LOOSE PARTICLES IN PREPARATION FOR REPLACEMENT.
 - 5. 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 USABLE SIZE.
 - E. INSTALL REPLACEMENT UNITS INTO BONDING AND COURSEING PATTERN OF EXISTING UNITS. IF CUTTING IS REQUIRED, USE A MOTOR-DRIVEN SAW DESIGNED TO CUT MASONRY WITH CLEAN, SHARP, UNCHIPPED EDGES. UNITS MUST BE TIGHTLY IN OR COURSEING SHALL MATCH SURROUNDING IN PLACE WORK.
 - F. MAINTAIN JOINT WIDTH FOR REPLACEMENT UNITS TO MATCH EXISTING JOINTS.
 - G. LAY REPLACEMENT UNITS WITH COMPLETELY FILLED BED, HEAD, AND COLLAR JOINTS. BUTTER ENDS WITH SUFFICIENT MORTAR TO FILL HEAD JOINTS AND SHOVE INTO PLACE.
 - 3. AS RECOMMENDED BY MANUFACTURER.
 - 4. RETEMPERING: RETEMPER MORTAR AS RECOMMENDED BY MANUFACTURER

G. INSTALLATION OF TUCK POINTING MORTAR

1. INSTALL MORTAR IN ACCORDANCE WITH ADHESIVE 530.1.
2. IMMEDIATELY PRIOR TO APPLICATION OF MORTAR, DAMPEN JOINTS TO BE TUCK POINTED. PRIOR TO APPLICATION OF POINTING MORTAR, MORTAR UNITS TO ABSORB SURFACE WATER.
3. TIGHTLY PACK MORTAR INTO JOINTS IN THIN LAYERS, APPROXIMATELY 1/4-INCH (6 MM) THICK MAXIMUM.
4. ALLOW LAYER TO BECOME "THUMBPRINT HARD" BEFORE APPLYING NEXT LAYER.
5. PACK FINAL LAYER FLUSH WITH SURFACES OF MASONRY UNITS, WHEN MORTAR BECOMES "THUMBPRINT HARD", TOOL JOINTS.
6. MARLINE CRACKING WITHIN THE MORTAR OR MORTAR SEPARATION AT EDGE OF A JOINT IS UNACCEPTABLE. COMPLETELY REMOVE SUCH MORTAR AND REPOINT.
7. TOOL JOINTS IN PATCH WORK WITH A JOINTING TOOL, TO MATCH THE EXISTING SURROUNDING JOINTS.
8. CLEANING.
 - A. COMPLY WITH CLEANING PROCEDURES AND RECOMMENDATIONS OF THE MANUFACTURERS OF BOTH THE CLEANING SOLUTIONS AND THE UNIT MASONRY.
 - B. REMOVE EFFLORESCENCE FROM MASONRY WALL EXPOSED IN THE FINISHED WORK IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION, NOMA TECH BULLETIN #8-3A AND/OR BIA TECHNICAL NOTE 20 - CLEANING BRICK.
 - C. REMOVE DIRT OR STAINS FROM MASONRY WALLS EXPOSED IN THE FINISHED WORK IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, NOMA TECH BULLETIN #8-2A AND/OR BIA TECHNICAL NOTE 20 - CLEANING BRICK.
 - D. COMPLY WITH APPLICABLE ENVIRONMENTAL LAWS AND RESTRACTIONS.

1. AFTER MORTAR HAS FULLY HARDENED, THOROUGHLY CLEAN EXPOSED MASONRY SURFACES OF EXCESS MORTAR AND FOREIGN MATTER. USE WOOD SCRAPERS, STIFF-NO.10 OR -FIBER BRUSHES, AND CLEAN WATER, SPRAY APPLIED AT LOW PRESSURE.
2. DO NOT USE METAL SCRAPERS OR BRUSHES.
3. DO NOT USE ACIDIC OR ALKALINE CLEANERS.

H. PROTECTION

1. PROTECTION: PROTECT NEWLY POINTED JOINTS FROM WEATHER AND ELEMENTS AS RECOMMENDED BY MANUFACTURER AND INDUSTRY STANDARDS, UNTIL POINTED JOINTS ARE SUFFICIENTLY HARD ENOUGH TO PREVENT DAMAGE.
2. PROTECT INSTALLED WORK FROM DAMAGE DUE TO SUBSEQUENT CONSTRUCTION ACTIVITY ON THE SITE.

DIVISION 5 - METALS

05 0215 - PIPE AND TUBE RAILINGS

1. SUBMITTALS: PRODUCT DATA AND SHOP DRAWINGS WITH PLANS ELEVATIONS AND SECTIONS INDICATING MEMBER SIZES AND LAYOUT, VERTICAL AND HORIZONTAL DIMENSIONS, EDGE CONDITIONS, AND CONNECTION DETAILS. INCLUDE DETAILS OF EQUIPMENT ASSEMBLY, MEMBER DIMENSIONS, WEIGHTS, LOADS, REQUIRED CLEARANCES, METHOD OF FIELD CONNECTIONS, COMPONENTS, AND LOCATION AND SIZE OF EACH FIELD CONNECTION. SAMPLES FOR INITIAL SELECTION FOR EACH TYPE OF EXPOSED FINISH.
1. DELEGATED DESIGN SUBMITTAL: FOR HANDRAIL AND GUARDRAIL SYSTEMS, INCLUDING ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

2. DESIGN: METAL TUBE RAILINGS SHALL BE DESIGNED BY FABRICATOR TO SUPPORT CODE-REQUIRED LOADS 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. DELEGATED DESIGN: ENGAGE A QUALIFIED PROFESSIONAL ENGINEER TO DESIGN RAILINGS, INCLUDING:
 - A. ATTACHMENT TO BUILDING CONSTRUCTION.
 - B. STRUCTURAL PERFORMANCE: RAILINGS, INCLUDING ATTACHMENT TO BUILDING CONSTRUCTION, SHALL WITHSTAND THE EFFECTS OF GRAVITY LOADS AND THE FOLLOWING LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED.
 - 2. HANDRAILS AND TOP RAILS OF GUARDS.
 - A. UNIFORM LOAD OF 50 LBF/FT (0.75 K/IN) APPLIED IN ANY DIRECTION.
 - B. CONCENTRATED LOAD OF 200 LBF (168 KN) APPLIED IN ANY DIRECTION.
 - C. UNIFORM AND CONCENTRATED LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY.

E. FASTENERS

1. FASTENERS FOR ANCHORING RAILINGS TO OTHER CONSTRUCTION: SELECT FASTENERS OF TYPE, GRADE, AND CLASS REQUIRED TO PRODUCE CONNECTIONS SUITABLE FOR ANCHORING RAILINGS TO OTHER TYPES OF CONSTRUCTION. VERIFY FASTENERS ARE AVAILABLE AND CAPABLE OF WITHSTANDING DESIGN LOADS.

F. MISCELLANEOUS MATERIALS

1. METAL SURFACES: GENERAL: PROVIDE MATERIALS WITH SMOOTH SURFACES, WITHOUT SEAM MARKS, ROLLER MARKS, ROLLED TRADE NAMES, STAINS, DISCOLORATIONS, OR BLEMISHES.
2. BRACKETS, FLANGES, AND ANCHORS: CAST OR FORMED METAL OF SAME TYPE AND FINISH AS SUPPORTED MATERIALS UNLESS OTHERWISE INDICATED.
3. PIPE: ASTM A 55A 3.5M, TYPE F OR TYPE S, GRADE A, STANDARD WEIGHT [SCHEDULE 40], UNLESS ANOTHER GRADE AND WEIGHT ARE REQUIRED BY STRUCTURAL LOADS.

G. FABRICATION

1. GENERAL: FABRICATE RAILINGS TO COMPLY WITH REQUIREMENTS INDICATED FOR DESIGN, DIMENSIONS, MEMBER SIZES AND SPACING, MEMBER FINISHES, FINISH, AND ANCHORS, BUT NOT LESS THAN THAT REQUIRED TO SUPPORT STRUCTURAL LOADS.
2. CUT, DRILL, AND PUNCH ALUMINUM CLEANLY AND ACCURATELY. REMOVE BURRS AND EASE EDGES TO A RADIUS OF APPROXIMATELY 1/16 INCH (1.6 MM), UNLESS OTHERWISE INDICATED. REMOVE SHARP OR ROUGH AREAS ON EXPOSED SURFACES.
3. FABRICATE CONNECTIONS THAT ARE EXPOSED TO WEATHER IN A MANNER THAT EXCLUDES WATER. PROVIDE WEEP HOLES WHERE WATER MAY ACCUMULATE.
4. WELDED CONNECTIONS: USE FULLY WELDED JOINTS FOR PERMANENTLY CONNECTING RAILING COMPONENTS. COMPLY WITH REQUIREMENTS FOR WELDED CONNECTIONS IN "FABRICATION" ARTICLE WHETHER WELDING IS PERFORMED IN THE SHOP OR IN THE FIELD.

H. FINISH

1. FOR NON-GALVANIZED STEEL RAILINGS, PROVIDE NONGALVANIZED FERROUS METAL FITTINGS, BRACKETS, FASTENERS, AND SLEEVES; HOWEVER, GALVANIZE ANCHORS TO BE EMBEDDED IN UNEXPOSED CONCRETE OR MASONRY.
2. PREPARATION FOR SHOP PRIMING: PREPARE UNCOATED FERROUS/METAL SURFACES TO COMPLY WITH SSPC-SP 3 "POWER TOOL CLEANING".
3. PRIMER APPLICATION: APPLY SHOP PRIMER TO PREPARED SURFACES OF RAILINGS UNLESS OTHERWISE INDICATED. COMPLY WITH REQUIREMENTS IN SSPC-PA 1 "SHOP FIELD AND MAINTENANCE PAINTING OF STEEL" FOR SHOP PAINTING. PRIMER NEED NOT BE APPLIED TO SURFACES TO BE EMBEDDED IN CONCRETE OR MASONRY.

I. INSTALLATION

1. SUPPLY COMPONENTS REQUIRED FOR ANCHORAGE FABRICATED FROM SAME MATERIAL AND FINISH AS FABRICATION UNLESS NOTED OTHERWISE. SHIM AND LEVEL FABRICATIONS AS NECESSARY. COAT CONCEALED SURFACES OF FABRICATIONS IN CONTACT WITH CONCRETE, GROUT, MASONRY, WOOD, OR DISSIMILAR METALS WITH BITUMINOUS PAINT.
2. FIT EXPOSED CONNECTIONS TOGETHER TO FORM TIGHT, HAIRLINE JOINTS.
3. PERFORM CUTTING, DRILLING, AND FITTING REQUIRED FOR INSTALLING RAILINGS. SET RAILINGS ACCURATELY IN LOCATION, ALIGNMENT, AND ELEVATION, MEASURED FROM ESTABLISHED LINES AND LEVELS AND FREE OF RACK. DO NOT WELD, CUT, OR GRABE SURFACES OF RAILING COMPONENTS THAT ARE COATED OR FINISHED AFTER FABRICATION AND THAT ARE INTENDED FOR FIELD CONNECTION BY MECHANICAL OR OTHER MEANS WITHOUT FURTHER CUTTING OR FITTING.
4. SET POSTS FLUSH WITH A TOLERANCE OF 1/16 INCH IN 3 FEET.
5. CONTROL OF CORROSION: PREVENT GALVANIC ACTION AND OTHER FORMS OF CORROSION BY INSULATING METALS AND OTHER MATERIALS FROM DIRECT CONTACT WITH INCOMPATIBLE MATERIALS.
6. ADJUST RAILINGS BEFORE ANCHORING TO ENSURE MATCHING ALIGNMENT AT ABUTTING JOINTS.
7. FASTENING TO IN-PLACE CONSTRUCTION: USE ANCHORAGE DEVICES AND FASTENERS WHERE NECESSARY FOR SECURING RAILINGS AND FOR PROPERLY TRANSFERRING LOADS TO IN-PLACE CONSTRUCTION.
8. PROTECT FINISHES OF RAILINGS FROM DAMAGE DURING CONSTRUCTION PERIOD WITH TEMPORARY PROTECTIVE COVERINGS APPROVED BY RAILING MANUFACTURER. REMOVE PROTECTIVE COVERINGS AT TIME OF SUBSTANTIAL COMPLETION.

05 0600 - STRUCTURAL METAL STUDS AND TRACK

THIS SECTION IS A DELEGATED DESIGN SUBMITTAL. CONTRACTOR SHALL ENGAGE A STRUCTURAL ENGINEER LICENSED IN THE JURISDICTION WHERE THIS PROJECT IS LOCATED. ALL FEES SUBMITTED FOR THIS SERVICE WILL BE PART OF BASE CONTRACT.

A. SUBMITTALS: PRODUCT DATA: MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING:

1. SHOWING PLANS, SECTIONS, ELEVATIONS, LAYOUTS, PROFILES AND PRODUCT COMPONENT LOCATIONS, INCLUDING ANCHORAGE, BRACING, FASTENERS, ACCESSORIES AND FINISHES.
2. INDICATE COMPONENT DETAILS, FRAMED OPENINGS, BEARING, ANCHORAGE, LOADING, WELDS, TYPE AND LOCATION OF FASTENERS, AND ACCESSORIES.
3. INDICATE METHOD FOR SECURING STUDS AND OTHER COMPONENTS TO TRACKS AND FOR FRAMING CONNECTIONS.
4. SUBMIT CALCULATIONS FOR LOADINGS AND STRESSES UNDER PROFESSIONAL ENGINEER'S SEAL, REGISTERED IN THE STATE OF THE PROJECT.
5. QUALITY STANDARD:
 - 1. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM FIVE YEARS' DOCUMENTED EXPERIENCE.
 - 2. INSTALLER QUALIFICATIONS: COMPANY SPECIALIZING IN PERFORMING WORK OF THIS SECTION WITH MINIMUM 3 YEARS' DOCUMENTED EXPERIENCE.
 - 3. DESIGN STRUCTURAL ELEMENTS UNDER DIRECT SUPERVISION OF PROFESSIONAL ENGINEER EXPERIENCED IN DESIGN OF THIS WORK AND REGISTERED IN THE STATE OF THE PROJECT.

F. INSTALLATION

1. FOLLOW MANUFACTURER INSTALLATION GUIDELINES. INSTALLATION SHALL BE COMPLIANT WITH APPLICABLE BUILDING CODES.

DIVISION 6 - WOOD AND PLASTICS

06 1000 - ROUGH CARPENTRY

1. PROVIDE SUFFICIENT FIRE RETARDANT TREATED WOOD BLOCKING AT ALL STUDS FOR SECURING OF WALL & CEILING ITEMS, WHETHER FURNISHED BY OWNER OR CONTRACTOR.
2. CONCEALED WOOD IS TO BE FIRE RETARDANT TREATED UNLESS NOTED OTHERWISE.
3. PRESERVATIVE TREATED LUMBER IS REQUIRED FOR ALL ITEMS TO REMAIN IN CONTACT WITH CONCRETE OR MASONRY TO CONFORM TO AWPA STANDARD 5.
4. EXTERIOR WOOD SHALL BE CD GRADE SPRUCE OR YELLOW PINE, ALL PLY-WOOD TO BE FIRE RATED WHERE WALLS ARE INDICATED AS RATED CONSTRUCTION.
5. BLOCKING SHALL BE CLOSELY FITTED, ACCURATELY SET TO REQUIRED LEVELS & LEVELS, SECURELY CONNECTED & FIRMLY FIXED IN PLACE. USING NAILS, SCREWS, &/OR BOLTS AS INDICATED OR REQUIRED BY GOOD PRACTICE AND MANUFACTURER'S RECOMMENDATIONS.

06 2000 - FINISH CARPENTRY

1. SUBMITTALS: SAMPLES OF FINISH MATERIALS, CATALOG CUTS OF HARDWARE, AND SHOP DRAWINGS INCLUDING DIMENSIONED PLANS, ELEVATIONS, AND SECTIONS.

2. QUALITY STANDARD: ARCHITECTURAL WOODWORK INSTITUTES' "ARCHITECTURAL WOODWORK QUALITY STANDARDS".

C. MATERIALS

1. SOFTWOOD LUMBER: MAXIMUM MOISTURE CONTENT OF 6 PERCENT; WITH VERTICAL GRAIN, OF QUALITY SUITABLE FOR SCHEDULED FINISH.
2. HARDWOOD LUMBER: MAXIMUM MOISTURE CONTENT OF 6 PERCENT; WITH VERTICAL GRAIN, OF QUALITY SUITABLE FOR SCHEDULED FINISH.
3. SHEET MATERIALS: SOFTWOOD PLYWOOD, EXPOSED TO VIEW: FACE SPECIES AS NOTICED, PLAN SAWN, MEDIUM DENSITY FIBERBOARD, CORE: 1/2 GRADE A3, GLUE TYPE AS RECOMMENDED FOR APPLICATION.

D. INTERIOR WOODWORK

1. COMPLETE FABRICATION BEFORE SHIPPING TO PROJECT SITE TO MAXIMUM EXTENT FEASIBLE. DISASSEMBLE ONLY AS NECESSARY FOR SHIPPING AND INSTALLING, WHERE NECESSARY FOR FITTING AT PROJECT SITE, PROVIDE FOR SCREWDING AND TRIMMING.
2. BACKSOT AND GROOVE BACKS OF FLAT MEMBERS, KEF BACKS OF OTHER WIDE, FLAT MEMBERS, EXCEPT WHERE ENDS WILL BE EXPOSED IN FINISHED WORK.

F. INSTALLATION

1. DO NOT INSTALL INSULATION ADHESIVES WHEN TEMPERATURE OR WEATHER CONDITIONS ARE DETRIMENTAL TO SUCCESSFUL INSTALLATION. DO NOT APPLY WATERPROOFING TO SURFACES UNACCEPTABLE TO MEMBRANE MANUFACTURER.
2. CLEAN AND PREPARE SURFACES TO RECEIVE WATERPROOFING IN ACC



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GENERAL PROJECT SPECIFICATIONS

SPECIFICATIONS - PRODUCT & INSTALLATION GENERAL REQUIREMENTS

07 5423 - EPDM MEMBRANE ROOFING & ACCESSORIES

- A. SUBMITTALS: PRODUCT DATA AND SHOP DRAWINGS. INDICATE JOINT OR TERMINATION DETAIL CONDITIONS, CONDITIONS OF INTERFACE WITH OTHER MATERIALS AND PAVES OR WALKWAY PAD LAYOUT.
1. MANUFACTURER'S FIELD REPORTS: INDICATE PROCEDURES FOLLOWED, AMBIENT TEMPERATURES, HUMIDITY, WIND VELOCITY DURING APPLICATION, AND SUPPLEMENTARY INSTRUCTIONS GIVEN SUBMIT FINAL MANUFACTURER'S PUNCH LIST FIELD REPORT WHEN COMPLETE SYSTEM IS INSTALLED.
2. MANUFACTURER'S INSTALLATION INSTRUCTIONS: INDICATE MEMBRANE SEAMING PRECAUTIONS AND PERMITTER CONDITIONS REQUIRING SPECIAL ATTENTION.

B. WARRANTY:

1. MATERIAL WARRANTY: PROVIDE MEMBRANE MANUFACTURER'S WARRANTY AGREEING TO REPLACE MATERIAL THAT SHOWS MANUFACTURE DEFECTS WITHIN 10 YEARS AFTER INSTALLATION.
2. SYSTEM WARRANTY: PROVIDE MANUFACTURER'S SYSTEM WARRANTY AGREEING TO REPAIR OR REPLACE ROOFING THAT LEAKS OR IS DAMAGED DUE TO WIND OR OTHER NATURAL CAUSES. WARRANTY TERM: 20 YEARS.
- A. FOR REPAIR AND REPLACEMENT ALLOWED COSTS OF BOTH MATERIAL AND LABOR IN WARRANTY.
- B. INCLUDE ADJACENT PUNCTURES ACCORDING TO THE MANUFACTURER'S STANDARD WARRANTY TERMS.
- C. INCLUDE HAIL DAMAGE ACCORDING TO THE MANUFACTURER'S STANDARD WARRANTY TERMS.
- D. EXCEPTIONS NOT PERMITTED: DAMAGE DUE TO ROOF TRAFFIC, DAMAGE DUE TO WIND OF SPEED GREATER THAN 56 MPH BUT LESS THAN 90 MPH.

C. BASIS OF DESIGN: FIRESTONE RUBBERGARD® EPDM MEMBRANE - WWW.FIRESTONEBPO.COM

1. WIND UPLIFT DESIGNED TO WITHSTAND WIND UPLIFT FORCES CALCULATED WITH ASCE 7.
2. INSULATION THERMAL RESISTANCE (R-VALUE): 3 PER INCH, MINIMUM, PROVIDE INSULATION OF THICKNESS REQUIRED, MINIMUM R-20.

D. ROOFING MEMBRANE MATERIALS:

1. MATERIAL: RUBBERGARD EPDM
- A. B. THICKNESS: 60 MILS (0.060 INCH), MINIMUM.
- B. C. SHEET WIDTH: FACTORY FABRICATED INTO LARGEST SHEETS POSSIBLE.
- C. D. PRODUCT: FULLY ADHERED.
2. SEAMING MATERIALS: AS RECOMMENDED BY MEMBRANE MANUFACTURER.
3. VAPOR RETARDER: MATERIAL APPROVED BY ROOF MANUFACTURER COMPLYING WITH REQUIREMENTS OF FIRE RATING CLASSIFICATION COMPATIBLE WITH ROOFING AND INSULATION MATERIALS. INSTALL WITH FIRE-RETARDANT ADHESIVE.
4. FLEXIBLE FLASHING MATERIAL: SAME MATERIAL AS MEMBRANE.
5. BASE FLASHING: PROVIDE WATERPROOF, FULLY ADHERED BASE FLASHING SYSTEM AT ALL PENETRATIONS, PLANE TRANSITIONS, AND TERMINATIONS.

E. DECK SHEATHING AND COVER BOARDS:

- IF SHEATHING OR COVER BOARD IS REFERENCED IN THE DRAWINGS, PROVIDE PRODUCTS COMPLYING WITH BELOW REQUIREMENTS.
1. DECK SHEATHING: 1/2" PSJM SHEATHING, ASTM C1395C1399M, TYPE V SPECIAL FIRE RESISTANT TYPE.
2. COVERBOARD: CEMENT ROOF BOARD, COMPLYING WITH ASTM C1325.

F. INSULATION:

1. INSULATION COMPLYING WITH MANUFACTURER'S RECOMMENDATIONS.
2. CELLULOSE FIBER BOARD INSULATION: ASTM C208, TYPE II, NATURAL FINISH.
3. EXPANDED POLYSTYRENE (EPS) BOARD INSULATION: COMPLES WITH ASTM C578 WITH DRAINAGE CHANNELS ON ONE FACE.
4. TAPERED BOARD: POLYSTYRENE (XPS) BOARD INSULATION: COMPLES WITH ASTM C578 WITH NATURAL SKIN SURFACE, DRAINAGE CHANNELS ON ONE FACE.
5. EXTRUDED POLYSTYRENE (XPS) BOARD INSULATION: COMPLES WITH ASTM C578 WITH NATURAL SKIN SURFACE, DRAINAGE CHANNELS ON ONE FACE.

G. ACCESSORIES:

1. PROVIDE AND INSTALL ONLY ACCESSORIES WHICH COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE FIRESTONE PREFINISHED FLASHINGS AND CORNERS FOR ITEMS NOTED IN DRAWING DETAILS.

H. INSTALLATION:

1. VERIFY THAT SURFACES AND SITE CONDITIONS ARE READY TO RECEIVE WORK.
2. VERIFY DECK IS SUPPORTED AND SECURE.
3. INCHES WIDE WITH SELF-SEALING STRIP FACE UP AT ROOF EDGE. INSTALL STARTER STRIP ALONG RAKE EDGE.
4. VERIFY DECK IS CLEAN AND SMOOTH. FLAT, FREE OF DEBRIS, WAVES, OR PROJECTIONS, PROPERLY SLOPED AND SUITABLE FOR INSTALLATION OF ROOF SYSTEM.
5. VERIFY DECK SURFACES ARE DRY AND FREE OF RAIN, SNOW OR ICE.
6. VERIFY THAT ROOF OPENINGS, CURBS, AND PENETRATIONS THROUGH ROOF ARE SOLIDLY SET, AND CANT STRIPS ARE IN PLACE.
7. CLEAN SUBSTRATE THOROUGHLY PRIOR TO ROOF APPLICATION.
8. DO NOT BEGIN WORK UNTIL OTHER WORK THAT REQUIRES ROOF OR EQUIPMENT TRAFFIC ON ROOF IS COMPLETE.
9. APPLY MANUFACTURER'S RECOMMENDED VAPOR RETARDER OR TEMPORARY ROOF BEFORE ROOF INSTALLATION.
10. PERFORM WORK IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND NRCA (RM) APPLICABLE REQUIREMENTS.
11. REMOVE WRAPPINGS, EMPTY CONTAINERS, PAPER, AND OTHER DEBRIS FROM THE ROOF DAILY. DISPOSE OF DEBRIS IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
12. IN AREAS WHERE FINISHED SURFACES ARE SOLED BY WORK OF THIS SECTION, CONSULT MANUFACTURER OF SURFACES FOR CLEANING ADVICE AND CONFORM TO THEIR DOCUMENTED INSTRUCTIONS.
13. REPAIR OR REPLACE DEFACED OR DAMAGED FINISHES CAUSED BY WORK OF THIS SECTION.

I. PROTECTION:

1. PROTECT INSTALLED ROOFING AND FLASHINGS FROM CONSTRUCTION OPERATIONS.
2. WHERE TRAFFIC MUST CONTINUE OVER FINISHED ROOF MEMBRANE, PROTECT SURFACES USING DURABLE MATERIALS.

07 6200 - SHEET METAL FLASHING AND TRIM

- A. STANDARDS:
- FABRICATED SHEET METAL ITEMS, INCLUDING FLASHINGS, COUNTERFLASHINGS, AND OTHER ITEMS INDICATED IN SCHEDULE.
- AAMA 811 - VOLUNTARY SPECIFICATION FOR ANODIZED ARCHITECTURAL ALUMINUM 2014 (2015 ERRATA).
- ASTM C920 - STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS 2016.
- CDA A4050 - COPPER IN ARCHITECTURE - HANDBOOK CURRENT EDITION.
- SMCMAA (ASMA) - ARCHITECTURAL SHEET METAL MANUAL 2012.

B. SUBMITTALS:

1. SHOP DRAWINGS: INDICATE MATERIAL PROFILE, JOINTING PATTERN, JOINTING DETAILS, FASTENING METHODS, FLASHINGS, TERMINATIONS, AND INSTALLATION DETAILS.
- C. QUALITY ASSURANCE:
1. PERFORM WORK IN ACCORDANCE WITH SMCMAA (ASMA) AND CDA A4050 REQUIREMENTS AND STANDARD DETAILS, EXCEPT AS OTHERWISE INDICATED.

D. DELIVERY, STORAGE, AND HANDLING:

1. STACK MATERIAL TO PREVENT TWISTING, BENDING, AND ABRASION, AND TO PREVENT VENTILATION. SLOPE METAL SHEETS TO ENSURE DRAINAGE.
2. PREVENT CONTACT WITH MATERIALS THAT COULD CAUSE DISCOLORATION OR STAINING.

E. PRODUCTS:

- PREFINISHED ALUMINUM: ASTM B209 (ASTM B209M), 20 GAUGE, (0.032 INCH) THICK, PLAIN FINISH SHOP PRE-COATED WITH MODIFIED SILICONE COATINGS.
1. FLUOROPOLYMER COATING: HIGH PERFORMANCE ORGANIC FINISH: AAMA 2604, MULTIPLE COAT, THERMALLY CURED FLUOROPOLYMER FINISH SYSTEM.
2. COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

F. FABRICATION:

1. FORM SECTIONS TRUE TO SHAPE, ACCURATE IN SIZE, SQUARE, AND FREE FROM DISTORTION OR DEFECTS.
2. FORM PIECES IN LONGEST POSSIBLE LENGTHS.
3. HEN EXPOSED EDGES ON UNDERSIDE: 1/2 INCH METER AND SEAM CORNERS.
4. FORM MATERIAL WITH FLAT LOCK SEAMS, EXCEPT WHERE OTHERWISE INDICATED; AT MOVING JOINTS, USE SEALED LAPPED, BAYONET-TYPE OR INTERLOCKING HOOKED SEAMS.
5. FABRICATE FLASHINGS TO ALLOW TCE TO EXTEND 2 INCHES OVER ROOFING GRAVEL, RETURN AND BRAKE EDGES.

G. ACCESSORIES:

1. FASTENERS: GALVANIZED STEEL, WITH SOFT NEOPRENE WASHERS.
2. PRIMER: ZINC CHROMATE TYPE.
3. CONCEALED SEALANTS: NON-CURING BUTYL SEALANT.
4. EXPOSED SEALANTS: ASTM C920, ELASTOMERIC SEALANT, WITH MINIMUM MOVEMENT CAPABILITY AS RECOMMENDED BY MANUFACTURER FOR SUBSTRATES TO BE SEALED; COLOR TO MATCH ADJACENT MATERIAL.

H. INSTALLATION:

1. SECURE FLASHINGS IN PLACE USING CONCEALED FASTENERS, AND USE EXPOSED FASTENERS ONLY WHERE PERMITTED.
2. APPLY PLASTIC CEMENT COMPOUND BETWEEN METAL FLASHINGS AND FELT FLASHINGS.
3. FIT FLASHINGS TIGHT IN PLACE, MAKE CORNERS SQUARE, FLASHINGS TRUE AND STRAIGHT IN PLANES, AND LINES ACCURATE TO PROFILES.
4. SEAL METAL JOINTS WATER-TIGHT.

07 8100 - APPLIED FIREPROOFING

- A. SUBMITTALS: PRODUCT DATA, PROVIDE DATA INDICATING PRODUCT CHARACTERISTICS.
1. TEST REPORTS: REPORTS FROM REPUTABLE, INDEPENDENT TESTING AGENCIES FOR PROPOSED PRODUCTS, INDICATING COMPLIANCE WITH SPECIFIED CRITERIA, CONDUCTED UNDER CONDITIONS SIMILAR TO THOSE ON PROJECT, AS FOLLOWS:
- A. BOND STRENGTH.
- B. BOND IMPACT.
- C. COMPRESSIVE STRENGTH.
- D. FIRE TESTS USING SUBSTRATE MATERIALS SIMILAR THOSE ON PROJECT.

2. MANUFACTURER'S INSTALLATION INSTRUCTIONS: INDICATE SPECIAL PROCEDURES.

3. MANUFACTURER'S QUALIFICATION STATEMENT:

D. FIELD CONDITIONS:

1. DO NOT APPLY FIREPROOFING WHEN TEMPERATURE OF SUBSTRATE MATERIAL AND SURROUNDING AIR IS BELOW -40 DEGREES F OR WHEN TEMPERATURE IS PRECIPITATED TO BE BELOW 34 TEMPERATURE FOR 24 HOURS AFTER APPLICATION.
2. PROVIDE VENTILATION IN AREAS TO RECEIVE FIREPROOFING DURING APPLICATION AND 24 HOURS AFTERWARD, TO DRY APPLIED MATERIAL.
3. PROVIDE TEMPORARY ENCLOSURE TO PREVENT SPRAY FROM CONTAMINATING AIR.

C. WARRANTY:

1. CORRECT DEFECTIVE WORK WITHIN A TWO YEAR PERIOD AFTER DATE OF SUBSTANTIAL COMPLETION.
- A. INCLUDE COVERAGE FOR FIREPROOFING TO REMAIN FREE FROM CRACKING, CHECKING, DUSTING, FLAKING, SPALLING, SEPARATION, AND BULSTERING.
- B. REINSTATE OR REPAIR FAILURES THAT OCCUR WITHIN WARRANTY PERIOD.

D. MANUFACTURERS:

1. GCP APPLIED TECHNOLOGIES: WWW.GCPAT.COM/FIREPROOFING
2. ISOLATEK INTERNATIONAL CORP.: WWW.ISOLATEK.COM
3. SOUTHWEST FIREPROOFING PRODUCTS COMPANY: WWW.SF3.COM

E. MATERIALS:

1. PROVIDE ASSEMBLIES AS INDICATED ON DRAWING.
2. PROVIDE FIRE RESISTANCE RATINGS FOR FOLLOWING:
- A. PRIMARY STRUCTURAL FRAME, INCLUDING BEAMS AND TRUSSES: [1 HOUR]
- B. BEARING WALLS, INTERIOR: [1 HOUR]
- C. INTERIOR PARTITION WALLS AND JOISTS: [1 HOUR]
- D. ROOF CONSTRUCTION, INCLUDING DECK, JOISTS, AND TRUSSES: [1 HOUR]

F. MATERIALS: APPLIED FIREPROOFING:

- FOR INTERIOR APPLICATIONS, CONCEALED, MANUFACTURER'S STANDARD FACTORY MIXED MAT, WHICH WHEN COMBINED WITH WATER IS CAPABLE OF PROVIDING NEEDED FIRE RESISTANCE AND MEETING ALL APPLICABLE REQUIREMENTS.
1. COMPOSITION: GYPSUM-BASED, NOT MINERAL-FIBER-BASED.
2. BOND STRENGTH: 150 POUNDS PER SQUARE FOOT, MINIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E709/20M WHEN SET AND DRY.
3. DRY DENSITY: AS REQUIRED BY FIRE RESISTANCE DESIGN.
4. COMPRESSIVE STRENGTH: 8.3 POUNDS PER SQUARE INCH, MINIMUM.
5. EFFECT OF IMPACT ON FINISHED SURFACES: NO CRACKING, SPALLING OR DELAMINATION, WHEN TESTED IN ACCORDANCE WITH ASTM E760/26M.
6. CORROSION: NO EVIDENCE OF CORROSION, WHEN TESTED IN ACCORDANCE WITH ASTM E837/2637M.
7. SURFACE BURNING CHARACTERISTICS: MAXIMUM FLAME SPREAD INDEX OF 0 (ZERO) AND MAXIMUM SMOKE DEVELOPED INDEX OF 0 (ZERO), WHEN TESTED IN ACCORDANCE WITH ASTM E84.

G. ACCESSORIES:

1. PRIMER: ADHESIVE, OF TYPE RECOMMENDED BY APPLIED FIREPROOFING MANUFACTURER.
2. OVERCOAT: AS RECOMMENDED BY MANUFACTURER OF APPLIED FIREPROOFING MATERIAL.
3. METAL LATH: EXPANDED METAL LATH, MINIMUM WEIGHT OF 1.7 PSF, GALVANIZED FINISH.
4. WATER: CLEAN, POTABLE.

H. INSTALLATION:

1. VERIFY THAT SURFACES ARE READY TO RECEIVE FIREPROOFING.
2. VERIFY THAT DUCTS, PIPING, EQUIPMENT, OR OTHER ITEMS THAT WOULD INTERFERE WITH APPLICATION OF FIREPROOFING HAVE NOT BEEN INSTALLED.
3. VERIFY THAT VOIDS AND CRACKS IN SUBSTRATE HAVE BEEN FILLED.
4. VERIFY THAT PROJECTIONS HAVE BEEN REMOVED WHERE FIREPROOFING WILL BE EXPOSED TO VIEW AS A FINISH MATERIAL.
5. PERFORM TESTS AS RECOMMENDED BY FIREPROOFING MANUFACTURER IN APPLICATIONS WHERE ADHESION OF FIREPROOFING TO SUBSTRATE IS IN QUESTION.
6. REMOVE INCOMPATIBLE MATERIALS THAT COULD EFFECT BOND BY SCRAPING, BRUSHING, SCRUBBING, OR SANDBLASTING.
7. PREPARE SUBSTRATES TO RECEIVE FIREPROOFING IN STRICT ACCORDANCE WITH INSTRUCTIONS OF FIREPROOFING MANUFACTURER.
8. APPLY FIREPROOFING MANUFACTURER'S RECOMMENDED BONDING AGENT ON PRIMED STEEL.
9. INSTALL METAL LATH OVER STRUCTURAL MEMBERS AS INDICATED OR AS REQUIRED BY UL ASSEMBLY DESIGN NUMBERS.
10. APPLY FIREPROOFING IN UNIFORM THICKNESS AND DENSITY AS NECESSARY TO ACHIEVE REQUIRED RATINGS.
11. INSPECT INSTALLED FIREPROOFING AFTER APPLICATION AND CURING FOR INTEGRITY, PRIOR TO ITS CONCEALMENT.
12. ENSURE THAT ACTUAL THICKNESSES, DENSITIES, AND BOND STRENGTHS MEET REQUIREMENTS FOR SPECIFIED RATINGS AND REQUIREMENTS OF AUTOMATICALLY RATED AND LISTED ASSEMBLIES.
13. REMOVE EXCESS MATERIAL, OVERSPRAY, DROPPINGS, AND DEBRIS.
14. REMOVE FIREPROOFING FROM MATERIALS AND SURFACES NOT REQUIRED TO BE FIREPROOFED.

07 8400 - FIRESTOPPING

- A. SUBMITTALS: PRODUCT DATA: PROVIDE DATA ON PRODUCT CHARACTERISTICS, PERFORMANCE RATINGS, AND LIMITATIONS.

B. MANUFACTURERS:

1. 3M FIRE PROTECTION PRODUCTS: WWW.3M.COM/FIRESTOP.COM
2. HILTl, INC.: WWW.US.HILTl.COM

C. MATERIALS:

1. FIRESTOPPING MATERIALS: ANY MATERIALS MEETING REQUIREMENTS.
2. PRIMERS, SLEEVES, FORMS, INSULATION, PACKING, STUFFING, AND ACCESSORIES: PROVIDE TYPE OF MATERIALS AS REQUIRED FOR TESTED FIRESTOPPING ASSEMBLY.
3. FIRE RATINGS: REFER TO DRAWINGS FOR REQUIRED SYSTEMS AND RATINGS.

D. ASSEMBLY REQUIREMENTS:

1. HEAD-OF-WALL, JOINT SYSTEM FIRESTOPPING AT JOINTS BETWEEN FIRE-RATED WALL ASSEMBLIES AND NON-RATED HORIZONTAL ASSEMBLIES: USE SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTM E837 TO HAVE FIRE RESISTANCE F RATING EQUAL TO REQUIRED FIRE RATING OF FLOOR OR WALL, WHICHEVER IS GREATER.
2. FLOOR-TO-FLOOR, WALL-TO-WALL, AND WALL-TO-FLOOR JOINTS, EXCEPT PERIMETER, WHERE BOTH ARE FIRE-RATED: USE SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTM E1966 OR UL 2079 TO HAVE FIRE RESISTANCE.
3. FIRE RATING EQUAL TO REQUIRED FIRE RATING OF THE ASSEMBLY IN WHICH THE JOINT OCCURS.
4. THROUGH PENETRATION FIRESTOPPING: USE SYSTEM THAT HAS BEEN TESTED ACCORDING TO ASTM E814 TO HAVE FIRE RESISTANCE F-RATING EQUAL TO REQUIRED FIRE RATING OF PENETRATED ASSEMBLY.

E. INSTALLATION:

1. INSTALLATIONS SHALL CONFORM TO UL REQUIREMENTS OF THE ASSEMBLY WHICH FIRESTOPPING IS TO BECOME PART OF THE BUILT ASSEMBLY.

07 9200 - JOINT SEALANTS

- A. SUBMITTALS: PRODUCT DATA, AND SCHEDULE OF LOCATIONS FOR EACH TYPE OF SEALANT SUBMITTED.

- B. JOINT-SEALANT SCHEDULE: INCLUDE THE FOLLOWING INFORMATION:
1. JOINT-SEALANT APPLICATION, JOINT LOCATION, AND DESIGNATION.
2. JOINT-SEALANT MANUFACTURER AND PRODUCT NAME.
3. JOINT-SEALANT FORMULATION.
4. JOINT-SEALANT COLOR.

- C. ENVIRONMENTAL LIMITATIONS: DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANTS WHEN AMBIENT AND SUBSTRATE TEMPERATURE CONDITIONS ARE OUTSIDE LIMITS PERMITTED BY JOINT SEALANT MANUFACTURER OR ARE BELOW 40 deg F (4 deg C).

- D. COMPATIBILITY: PROVIDE JOINT SEALANTS, JOINT FILLERS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER SERVICE AND APPLICATION CONDITIONS.

E. JOINT SEALANTS:

1. COLORS OF EXPOSED JOINT SEALANTS: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
2. INTERIOR JOINTS IN CERAMIC TILE AND OTHER HARD SURFACES IN KITCHENS, TOILET ROOMS, AND AROUND PLUMBING FIXTURES: SINGLE COMPONENT, MILDEW-RESISTANT SILICONE SEALANT, ASTM C 920, TYPE S; GRADE NS, CLASS 25; USES AT, A, AND C, O, FORMULATED WITH FUNGICIDE.
3. INTERIOR JOINTS AROUND PERIMETERS OF DOORS AND FRAMES: LATEX SEALANT, SINGLE COMPONENT, NONSAG, MILDEW-RESISTANT, PAINTABLE, ACRYLIC EMULSION SEALANT COMPLYING WITH ASTM C 834.
4. ACUSTICAL SEALANT FOR EXPOSED INTERIOR JOINTS: NONSAG, PAINTABLE, NONSTAINING, LATEX SEALANT COMPLYING WITH ASTM C 834.

5. ACUSTICAL SEALANT FOR CONCEALED JOINTS: NONDRYING, NONHARDENING, NONSKINNING, NONSTAINING, QUINNABLE, SYNTHETIC-RUBBER SEALANT RECOMMENDED FOR SEALING INTERIOR CONCEALED JOINTS TO REDUCE TRANSMISSION OF AERODYNAMIC SOUND.
6. EXTERIOR CONCRETE PANELS, NATURAL STONES, MASONRY, ALUMINUM CURTAIN WALLS, METAL PANELS AND WINDOW PERIMETERS.

BASIS OF DESIGN PRODUCTS:

- A. TREMCO INCORPORATED: SPECTRUM 1.
- B. DOW CORNING CORPORATION: 790.
- C. PECORA CORPORATION: BRONST.
7. EXTERIOR JOINTS IN HORIZONTAL TRAFFIC SURFACES.
8. ISOLATION AND CONTRACTION JOINTS IN CAST-IN-PLACE CONCRETE SLABS.
- URETHANE JOINT SEALANT: MULTICOMPONENT, NONSAG, GRADE, CLASS 25.

E. JOINT SEALANT BACKING:

1. GENERAL: PROVIDE SEALANT BACKINGS OF MATERIAL THAT ARE NONSTAINING, ARE COMPATIBLE WITH JOINT SUBSTRATES, SEALANTS, PRIMERS, AND OTHER JOINT FILLERS, AND ARE APPROVED FOR APPLICATIONS INDICATED BY SEALANT MANUFACTURER BASED ON FIELD EXPERIENCE AND LABORATORY TESTING.
2. CYLINDRICAL SEALANT BACKINGS: ASTM C 1330, TYPE C (CLOSED-CELL MATERIAL WITH A SURFACE SKIN), AND OF SIZE AND DENSITY TO CONTROL SEALANT DEPTH AND OTHERWISE CONTRIBUTE TO PRODUCING OPTIMUM SEALANT PERFORMANCE.
3. BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MANUFACTURER FOR PREVENTING SEALANT FROM ADHERING TO RIGID, INFLEXIBLE JOINT-FILLER MATERIALS OR JOINT SURFACES AT BACK OF JOINT. PROVIDE SELF-ADHESIVE TAPE WHERE APPLICABLE.

F. MISCELLANEOUS MATERIALS:

1. PRIMER: MATERIAL RECOMMENDED BY JOINT-SEALANT MANUFACTURER WHERE REQUIRED FOR ADHESION OF SEALANT TO JOINT SUBSTRATES INDICATED, AS DETERMINED FROM PRECONSTRUCTION JOINT-SEALANT-SUBSTRATE TESTS AND FIELD TESTS.
2. CLEANERS FOR NONPOROUS SURFACES: CHEMICAL CLEANERS ACCEPTABLE TO MANUFACTURERS OF SEALANTS AND SEALANT BACKING MATERIALS, FREE OF OILY RESIDUES OR OTHER SUBSTANCES CAPABLE OF STAINING OR HARMING JOINT SUBSTRATES AND ADJACENT NONPOROUS SURFACES IN ANY WAY, AND FORMULATED TO PROMOTE OPTIMUM ADHESION OF SEALANTS TO JOINT SUBSTRATES.
3. BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MFR FOR PREVENTING SEALANT FROM ADHERING TO RIGID, INFLEXIBLE JOINT-FILLER MATERIALS OR JOINT SURFACES AT BACK OF JOINT.
4. MASKING TAPE: NONSTAINING, NONABSORBENT MATERIAL COMPATIBLE WITH JOINT SEALANTS AND SURFACES ADJACENT TO JOINTS.

6. INSTALLATION: COMPLY WITH ASTM C 1193, ASTM C 919 FOR ACUSTICAL JOINTS, AND AS FOLLOWS:
1. REMOVE ALL LOOSE MATERIAL, CLEAN AND PRIME JOINTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, AND PROTECT ADJACENT SURFACES.
2. INSTALL BOND-BREAKER TAPE WHERE JOINT BACKINGS ARE NOT USED.
3. INSTALL SEALANT TOOLED CONCAVE, FREE OF AIR POCKETS, FOREIGN EMBEDDED MATTER, RIDGES, AND SAGS, AND PROTECT UNTIL FULLY CURED. SEALANT WITH DUST AND DEBRIS EMBEDDED IN SURFACE SHALL BE CAUSE FOR REJECTION.

DIVISION 8 - OPENINGS

08 0671 - DOOR HARDWARE

- A. SUBMITTALS: PRODUCT DATA AND HARDWARE SCHEDULE INDICATING HARDWARE ITEM, FINISH, AND QUANTITY LOCATED ON EACH DOOR WITH DOOR AND HARDWARE SET NUMBERING CORRESPONDING TO THOSE USED IN CONSTRUCTION DOCUMENTS. REFER TO ARCHITECTURAL PLANS AND HARDWARE SCHEDULES PROVIDED.
1. HARDWARE SUPPLIER SHALL SUBMIT FOUR COPIES OF FINAL HARDWARE SCHEDULE AT EARLIEST POSSIBLE DATE PARTICULARLY WHERE ACCEPTANCE OF HARDWARE SCHEDULE MUST PRECEDE FABRICATION OF OTHER WORK WHICH IS CRITICAL IN THE PROJECT CONSTRUCTION SCHEDULE. INCLUDE WITH SCHEDULE SHOP DRAWINGS OF OTHER WORK SUBMITTED BY BUILDERS HARDWARE, AND OTHER INFORMATION ESSENTIAL TO THE COORDINATE REVIEW OF HARDWARE SCHEDULE.
2. KEYING SCHEDULE: SUBMIT SEPARATE DETAILED SCHEDULE INDICATING CLEARLY HOW THE OWNER'S FINAL INSTRUCTIONS ON KEYING OF LOCKS HAS BEEN FULFILLED. ALL KEYING SHALL BE COORDINATED WITH THE OWNER.

B. PRODUCTS: REFER TO HARDWARE SCHEDULE AND ARCHITECTURAL DRAWINGS.

1. STRIKES: PROVIDE MANUFACTURER'S STANDARD WROUGHT BOX STRIKE FOR EACH LATCH OR LOCK BOLT, WITH CURVED UP EXTENDED TO PROTECT FRAME. FINISH TO MATCH HARDWARE SET. PROVIDE STANDARD (OPEN) STRIKE PLATES FOR INTERIOR DOORS WHERE WOOD DOOR FRAMES ARE USED.
2. IN GENERAL, HARDWARE FINISH SHALL BE U15 (SATIN NICKEL) UNLESS SPECIFIED DIFFERENTLY ON HARDWARE SCHEDULE.
3. SUPPLY CAL ROVAL ROSS FLEXIBLE DOOR STOPS IN THE APARTMENT DWELLING UNITS. USE 2 1/8"X-23 HINGE STOPS WHERE FLEXIBLE STOPS CANNOT BE USED.
4. SUPPLY OUT SWINGING EXTERIOR DOORS WITH NON REMOVABLE PINS.

C. INSTALLATION:

1. MOUNT HARDWARE UNITS AT HEIGHTS INDICATED IN 'RECOMMENDED LOCATIONS FOR BUILDERS HARDWARE FOR STANDARD STEEL DOORS AND FRAMES' BY THE DOOR AND HARDWARE INSTITUTE, EXCEPT AS SPECIFICALLY INDICATED OR REQUIRED TO COMPLY WITH GOVERNING REGULATIONS, AND EXCEPT AS MAY BE OTHERWISE DIRECTED BY ARCHITECT. MOUNT HARDWARE IN UNITS DESIGNATED FOR USE BY THE HANDICAPPED AT HEIGHTS RECOMMENDED FOR USE BY THE HANDICAPPED.
2. INSTALL EACH HARDWARE ITEM IN COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS, WHEREVER CUTTING AND FITTING IS REQUIRED TO INSTALL HARDWARE ONTO OR INTO SURFACES WHICH ARE LATER TO BE PAINTED OR FINISHED IN ANOTHER WAY, COORDINATE REMOVAL, STORAGE AND REINSTALLATION OR APPLICATION OF SURFACE PROTECTIONS WITH FINISHING WORK SPECIFIED IN THE DIVISION 9 SECTIONS. DO NOT INSTALL SURFACE MOUNTED UNITS UNTIL FINISHES HAVE BEEN COMPLETED ON THE SUBSTRATE.
3. SET UNITS LEVEL, PLUMB AND TRUE TO LINE AND LOCATION. ADJUST AND REINFORCE THE ATTACHMENT SUBSTRATE AS NECESSARY FOR PROPER INSTALLATION AND OPERATION.
4. DRILL AND COUNTERBANK UNITS WHICH ARE NOT FACTORY PREPARED FOR ANCHORAGE FASTENERS. SPACE FASTENERS AND ANCHORS IN ACCORDANCE WITH INDUSTRY STANDARDS.
5. METAL THRESHOLDS SHALL BE SET IN A SOLID BED OF NON STAINING THICK, BASE CAULKING.
6. ADJUST CHIEF OPERATING ITEM OF HARDWARE AND EACH DOOR, TO ENSURE PROPER OPERATION OR FUNCTION OF EVERY UNIT. REPAIR UNITS WHICH CANNOT BE ADJUSTED TO OPERATE FREELY AND SMOOTHLY AS INTENDED FOR THE APPLICATION MADE.
7. FINAL ADJUSTMENT, WHEREVER HARDWARE INSTALLATION IS MADE MORE THAN ONE MONTH PRIOR TO ACCEPTANCE OR OCCUPANCY OF A SPACE OR AREA, RETURN TO THE WORK DURING THE WEEK PRIOR TO ACCEPTANCE OR OCCUPANCY, AND MAKE FINAL CHECK AND ADJUSTMENT OF ALL HARDWARE ITEMS IN SUCH SPACE OR AREA. CLEAN OPERATING ITEMS AS NECESSARY TO RESTORE PROPER FUNCTION OF EACH ITEM.
- HARDWARE AND DOORS. ADJUST DOOR CONTROL DEVICES TO COMPENSATE FOR FINAL OPERATION OF HEATING AND VENTILATING EQUIPMENT.

HARDWARE SET: 1.0

FOR USE ON DOOR (S):

N-101, N-102

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5881 4.5 X 4.5	BRUSHED NICKEL	IVE
1 EA	PRIVACY WDR B AND	L3498P9 6GA L583-303	BRUSHED NICKEL	SCH
1 EA	SURFACE CLOSER	4040P REG	BRUSHED NICKEL	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	BRUSHED NICKEL	IVE
1 EA	WALL STOP	WS4046P7CVCX	BRUSHED NICKEL	IVE
3 EA	SLENCER	S864	GRY	NE

HARDWARE SET: 2.0

FOR USE ON DOOR (S):

N-103

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5881 4.5 X 4.5	BRUSHED NICKEL	IVE
1 EA	STOREDOOR LOCK	L908P9 6GA	BRUSHED NICKEL	SCH
1 EA	HO STOP	905	BRUSHED NICKEL	GLY
3 EA	SLENCER	S864	GRY	IVE

HARDWARE SET: 3.0

FOR USE ON DOOR (S):

S-100C

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5881HW 4.5 X 4.5 NRP	BRUSHED NICKEL	IVE
1 EA	STOREDOOR LOCK	N08LD RHO	BRUSHED NICKEL	SCH
1 EA	FISC CORE	PERMANENT CORE	BRUSHED NICKEL	SCH
1 EA	KEYED CONST CORE	KEYED CONST CORE	BRUSHED NICKEL	SCH
1 EA	SURFACE CLOSER	4040P 9/16X15/16 MC	BRUSHED NICKEL	LCN
1 EA	RAN DRIP	142	BRUSHED NICKEL	ZER
1 EA	GASKETING	328-S	BRUSHED NICKEL	ZER
1 EA	DOOR SWEEP	39	BRUSHED NICKEL	ZER
1 EA	THRESHOLD	555-223	BRUSHED NICKEL	ZER
1 EA	DOOR CONTACT	679-059H OR WD AS REQD	BRUSHED NICKEL	SCB

08 1113 - HOLLOW METAL DOORS AND FRAMES

- A. SUBMITTALS: PRODUCT DATA AND SHOP DRAWINGS WITH DETAILS OF EACH OPENING, SHOWING ELEVATIONS, GLAZING, FRAME PROFILES, AND ANY INDICATED FINISH REQUIREMENTS.

B. HOLLOW METAL DOOR AND FRAME MANUFACTURERS:

1. CEOO DOOR, AN ASSA ABLOY GROUP COMPANY: WWW.ASSAABLOYDOSS.COM
2. DE LA FONTAINE INC.: WWW.DELAFONTAINE.COM
3. REPUBLIC DOORS

4/21/2022 9:38:41 AM

A12 ROOF DEMO PLAN
1/8" = 1'-0"

A8 2ND FLOOR DEMO PLAN
1/8" = 1'-0"

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

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, PRING, HVAC UNITS, 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 SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BEAR THE COST OF REPAIRING SUCH DAMAGE.
5. ALL OPENINGS IN WALLS AND ROOFS RESULTING FROM EQUIPMENT AND/OR PIPE REMOVAL SHALL BE SEALED WEATHERTIGHT. 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, BOTH VERTICALLY AND HORIZONTALLY FOR THE ENTIRE DURATION THAT THE BUILDING IS EXPOSED TO THE ELEMENTS. PATCH/REPAIR/REPLACE AS REQUIRED.

DEMO FLOOR PLAN
KEYED NOTES

MARK	DESCRIPTION
1	REMOVE EXISTING FLOOR AND ALL ASSOCIATED CONSTRUCTION. PREPARE ENTIRE SUB-FLOOR FOR NEW DRAIN TILE AND CLEAN GRAVEL. EXTERIOR WALLS AND FOUNDATIONS TO BE PREPARED FOR NEW WATERPROOFING BELOW GRADE.
2	PROTECT COLUMNS AND BRACE AS NECESSARY TO PROVIDE FULL STABILITY DURING REWORK OF SUB-FLOOR AREA.
3	EXISTING MAIN STAIR TO 2ND LEVEL TO REMAIN. PROTECT STAIR AND BRACE AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY WHILE SUB-FLOOR IS REMOVED. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION.
4	REMOVE EXISTING DOORS/FRAMES/WALLS AND ROUGH-INS FOR MEP SYSTEMS. REFER TO MEP FOR ADDITIONAL NOTES.
5	REMOVE EXISTING RESTROOM CORE AND ALL ASSOCIATED MEP SYSTEMS. REFER TO MEP FOR ADDITIONAL INFORMATION.
6	REMOVE WINDOW AND PREPARE OPENING FOR NEW EGRESS DOOR. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION.
7	REMOVE EXISTING WEATHERHOOD AND LOUVER ABOVE EXTERIOR DOOR. REMOVE DOOR AND ENLARGE OPENING FOR NEW EGRESS DOOR. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION.
8	REMOVE WINDOW SYSTEM AND ALL FAILED COMPONENTS. PREPARE OPENING FOR NEW WINDOW SYSTEM, FRAMING AND FLASHINGS.
9	REMOVE BROKEN GLASS. PREPARE FOR NEW GLASS INSTALL.
10	REMOVE PLATFORM AND ALL NON-STRUCTURAL FRAMING.
11	REMOVE ALL COMPONENTS THAT NO LONGER ARE ACTIVE, IN GOOD WORKING ORDER, OR ABANDONED. COORDINATE WITH MEP FOR ADDITIONAL ITEMS TO BE REMOVED.
12	PREPARE ROOF FOR NEW RTU CURBS AND OPENINGS. COORDINATE EXACT LOCATIONS WITH MEP/STRUCTURAL DOCUMENTS.

MAIN STREET BUILDING IMPROVEMENTS

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

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REVISION DATES:



PROFESSIONAL SEAL

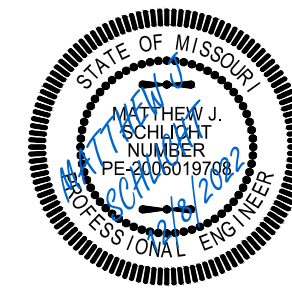
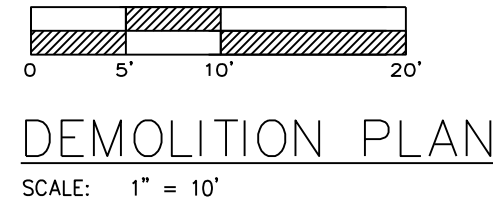
D101

ISSUE DATE: 21 APRIL, 2022
COLLINS WEBB #: 21121

DEMO PLANS



PERMIT DOCUMENTS



Matthew J. Schlicht
MO PE 2006015708
KS PE 19071
OK PE 23226
NE PE E-14335

REVISIONS
City Comments 5/17/2022
Patio Revision 9/23/2022
Revision 12/8/2022

C.010

Demolition Plan
Preliminary Development Plans
230 SW Main Street
Lee's Summit, Jackson County, Missouri

Project: 228 SW MAIN, L&MO
Issue Date: April 21, 2022

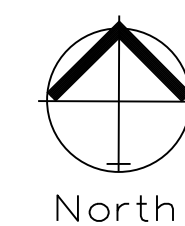
Preliminary Development Plans
230 SW Main Street
Lee's Summit, Jackson County, Missouri

Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005000319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

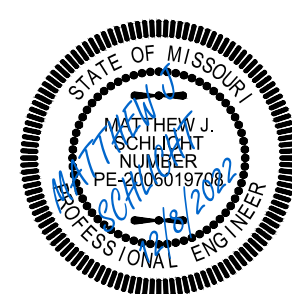
ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
5010 S. 10TH STREET
LEE'S SUMMIT, MO 64082
P: 816.623.9888 F: 816.623.9849



- Notes**
1. Contractor is responsible for verifying all existing utility locations prior to excavation
 2. There are no known natural or artificial water storage detention areas, or wetlands in the area designated for construction
 3. No part of the project lies within the 100 year flood plain
 4. All erosion and sediment control measures need to be implemented prior to construction
 5. Additional erosion control may be required by the City Engineer, Design Engineer or Owner at any time problematic areas are noted in the field or existing measures are found to be ineffective
 6. Soil Stabilization of disturbed areas shall be completed within 14 days of construction inactivity
 7. Contractor responsible for all density testing of roadway subgrade and granular base.

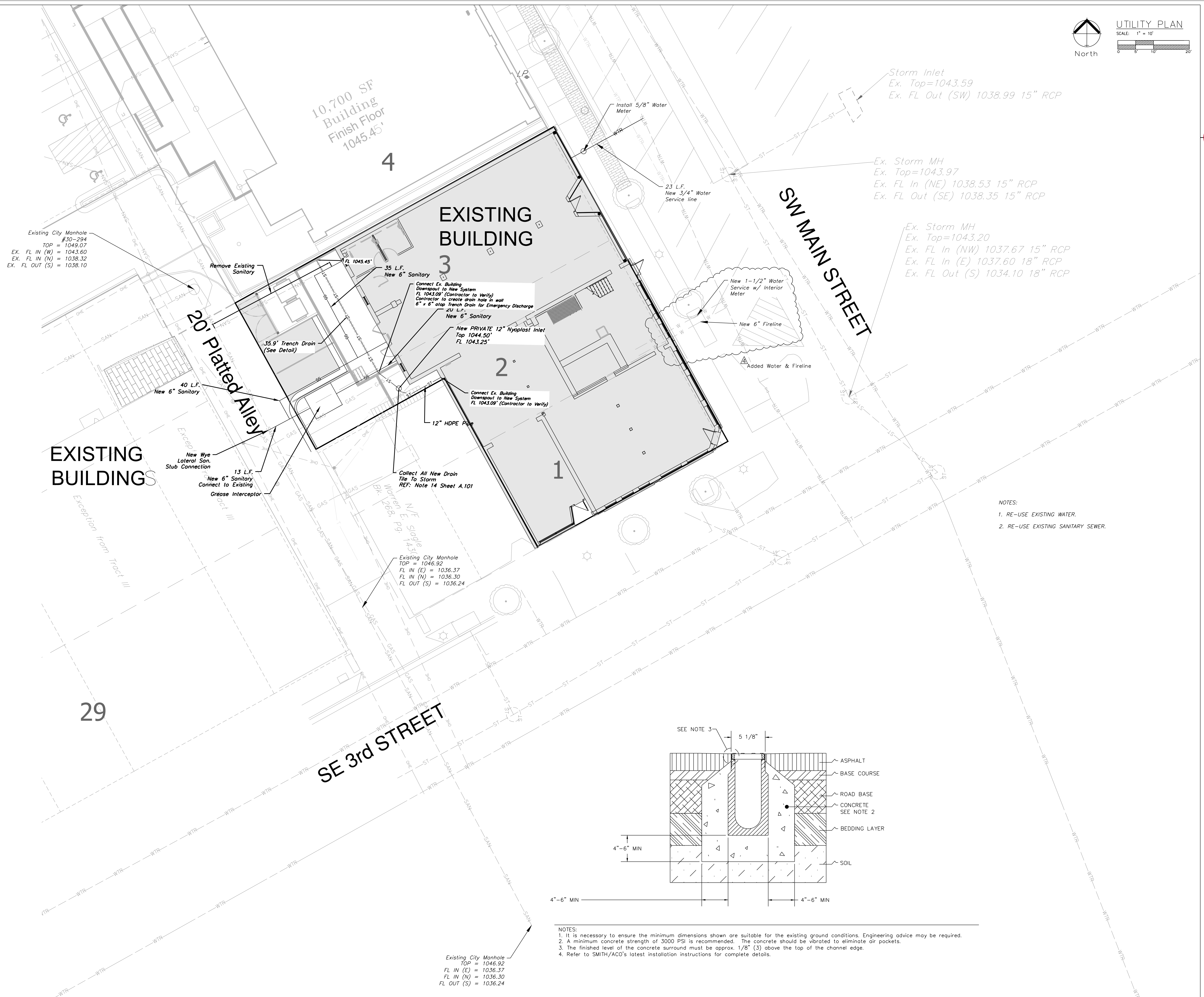


GRADING PLAN
SCALE: 1" = 10'
0 5 10 15



Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 23235
NE PE E-14335

REVISIONS	
City Comments	5/17/2022
Patric Revision	9/23/2022
Revision	12/8/2022



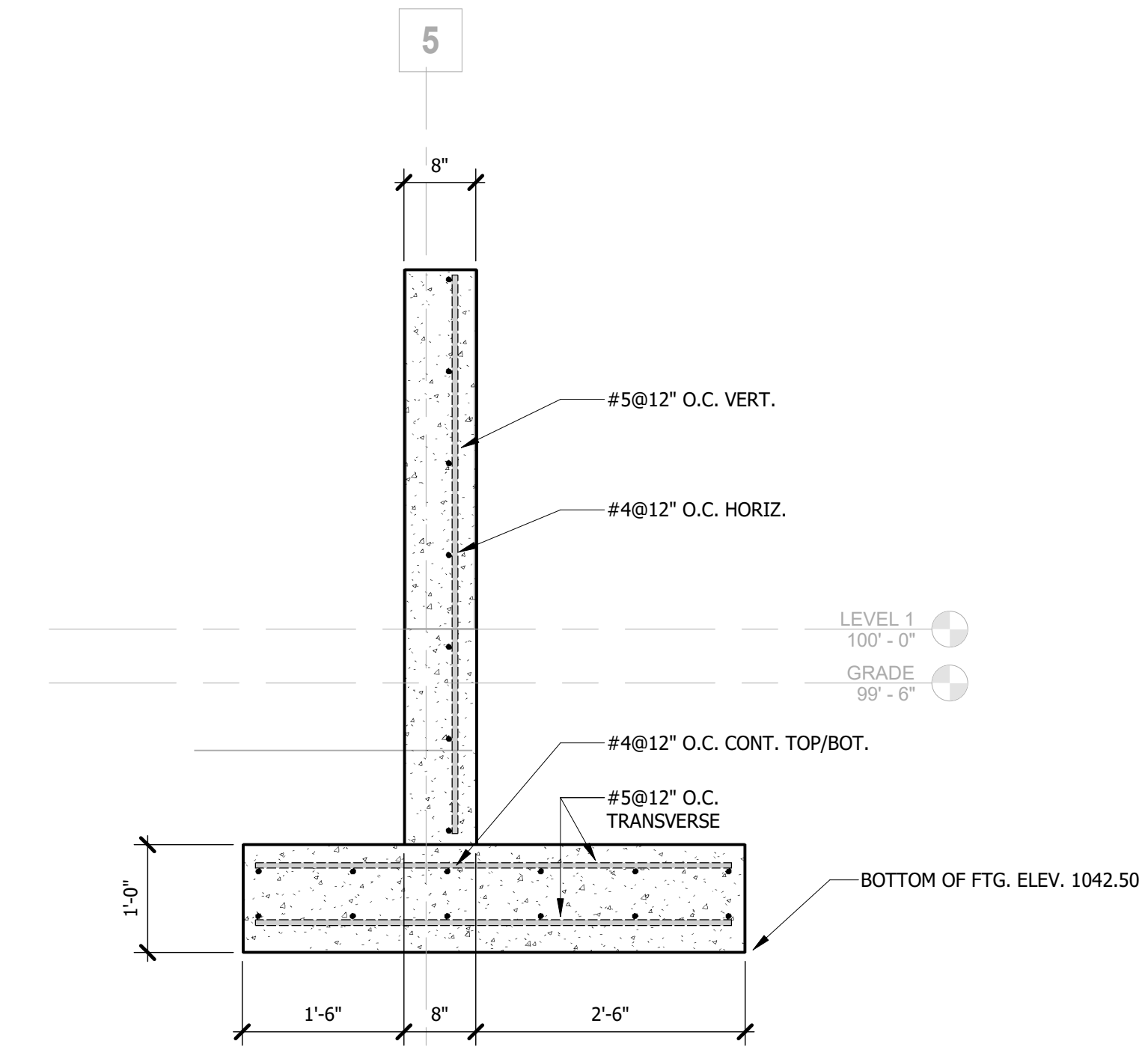
1. ALL WORK SHALL CONFORM TO 2018 INTERNATIONAL BUILDING CODE AS ADOPTED AND AMENDED BY THE CITY OF LEE'S SUMMIT, MISSOURI.
2. DESIGN LOADS
- A. OVERALL BUILDING CLASSIFICATIONS
1. RISK CATEGORY II
2. SNOW IMPORTANCE FACTOR, I_s 1.00
3. ICE IMPORTANCE FACTOR - WIND, I_w 1.00
4. SEISMIC IMPORTANCE FACTOR, I_e 1.00
- B. SLAB ON GRADE FLOOR LOADS
1. LIVE LOAD 100 PSF
2. CONCENTRATED LOAD 3000 LB ACTING ON AN AREA 4.5 IN. BY 4.5 IN.
- C. ROOF DEAD AND LIVE LOADS
1. DEAD LOAD TOP CHORD 20 PSF
2. DEAD LOAD BOT. CHORD 5 PSF
3. LIVE LOAD TOP CHORD 20 PSF
4. LIVE LOAD BOT. CHORD 0 PSF (U.N.O.)
- D. ROOF SNOW LOADS
1. GROUND SNOW LOAD, P_g 15 PSF
2. FLAT ROOF SNOW LOAD, P_f 11.34 PSF
3. SNOW EXPOSURE FACTOR, C_e 0.9
4. THERMAL FACTOR, C_t 1.2
5. SLOPE FACTOR, C_s 0.6
6. DRIFTING PER CODE
- E. WIND LOADS
1. BASIC WIND SPEED (3 SECOND GUST) 107 MPH
2. EXPOSURE CATEGORY C
3. INTERNAL PRESSURE COEFFICIENT, C_{pi} +/- 0.18
4. COMPONENTS AND CLADDING PER ASCE 7-16, REFER TO XX/XXXX.
- F. SEISMIC LOADS
1. S_s 0.189
2. S_1 0.105
3. SITE CLASS C
4. S_{ws} 0.164
5. S_{ol} 0.105
6. SEISMIC DESIGN CATEGORY B
7. SEISMIC FORCE RESISTING SYSTEM WOOD WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR
8. DESIGN BASE SHEAR C_w 0.025
9. DESIGN RESPONSE COEFFICIENT, C_s 6.5
10. RESPONSE MODIFICATION COEFFICIENT, R EQUIVALENT LATERAL FORCE (ELF) PROCEDURE
11. ANALYSIS PROCEDURE USED
- G. ROOF RAIN LOADS
1. 60-MIN DURATION/100 YEAR RAIN INTENSITY, I 3.20 IN
2. 15-MIN DURATION/100 YEAR RAIN INTENSITY, I 1.61 IN

3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS PRIOR TO FABRICATION. IF DISCREPANCIES EXIST BETWEEN CONTRACT DRAWINGS, AND/OR SHOP DRAWINGS NOTIFY THE ENGINEER OF RECORD.
4. THE CONTRACTOR SHALL REVIEW DRAWINGS FROM ALL OTHER DISCIPLINES FOR PERTINENT MISC. ITEMS OR INFORMATION RELATED TO THE STRUCTURAL WORK AND COORDINATE AS REQUIRED.
5. THE BUILDING IS NOT STRUCTURALLY STABLE UNTIL ALL CONNECTIONS, FRAMING, SHEAR WALLS, PERMANENT BRACING, AND EXTERIOR LOAD-BEARING WALLS ARE COMPLETE AND HAVE ACHIEVED THEIR RESPECTIVE DESIGN STRENGTHS. CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING STRUCTURAL STABILITY DURING ERECTION AND CONSTRUCTION. TEMPORARY BRACING SYSTEMS ARE NOT TO BE REMOVED UNTIL STRUCTURAL WORK IS COMPLETE.
6. PROVIDE ADEQUATE SHORING DURING CONSTRUCTION TO RESIST FORCES SUCH AS WIND AND UNBALANCED LOADS DUE TO CONSTRUCTION. DO NOT BACKFILL UNTIL CONCRETE HAS CURED 14 DAYS.

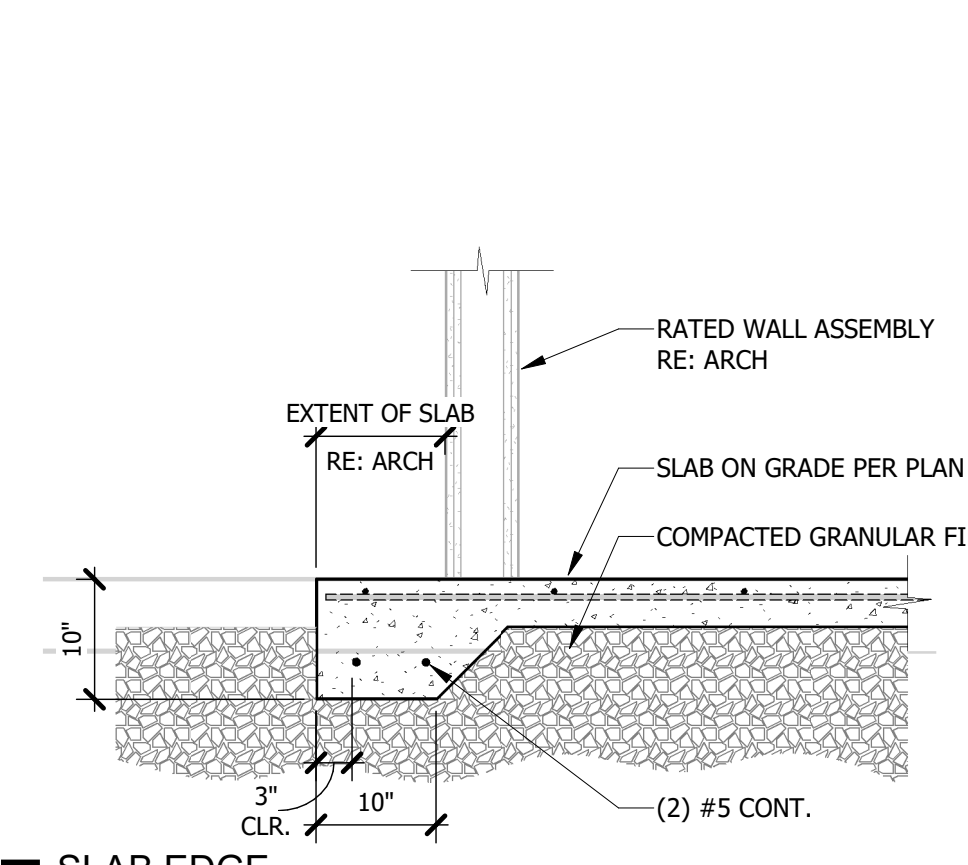
9. CONCRETE
- A. CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO LATEST APPLICABLE AMERICAN CONCRETE INSTITUTE DOCUMENTS, ACI-301, 305, 306, 315, 318, AND 347 UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS.
- B. ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL DEVELOP A 28 DAY COMPRESSIVE STRENGTH AND HAVE MAXIMUM WATER/CEMENT RATIOS AS FOLLOWS:
1. FOOTINGS, GRADE BEAMS, WALLS, BEAMS, COLUMNS: 4000 PSI (w/c MAX 0.45)
2. SLAB ON GRADE: 4000 PSI (w/c MAX 0.42)
3. REFER TO THE SPECIFICATION FOR AIR-ENTRAINED CONCRETE.
- C. SLABS-ON-GRADE SHALL DEVELOP A 90 DAY COMPRESSIVE STRENGTH. IT IS THE INTENT OF THESE CONCRETE SPECIFICATIONS THAT THE CONTRACTOR SUPPLY CONCRETE MIXES WITH A MINIMUM AMOUNT OF WATER IN ORDER TO LIMIT PLASTIC SHRINKAGE CRACKING IN FRESHLY PLACED CONCRETE. IT IS EXPECTED THAT PRODUCING WORKABILITY FOR CONCRETE MIXES WILL REQUIRE THE ADDITION OF WATER-REDUCING CHEMICAL ADMIXTURES.
- D. CONCRETE MIX DESIGNS SHALL INCLUDE ALL APPLICABLE ADMIXTURES.
- E. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C-145) AS DELIVERED IN THE FIELD. CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY IF ADMIXTURE IS TO BE ADDED IN THE FIELD IS SHALL BE ADDED THROUGH THE USE OF AN EXTERNAL MEASURING DEVICE (I.E. 5 GALLON BUCKET).
- F. CONCRETE EXPOSED TO WEATHER, PARKED VEHICLES, AND/OR DEICING CHEMICAL SHALL CONTAIN 6% (+/- 1%) ENTRAINED AIR BY VOLUME.
- G. CHAMFER ALL EXPOSED CORNERS OF CONCRETE WALLS, 3/4" UNLESS NOTED OTHERWISE.
- H. ALL CONTROL JOINTS IN CONCRETE SLABS-ON-GRADE SHALL BE CUT TO 1/3 OF DEPTH WHEN USING WET-CUTTING PROCESS AND 1/4 OF DEPTH WHEN USING EARLY-ENTRY DRY-CUT PROCESS. CUT JOINTS AS SOON AS APPLICABLE PER PROCESS USED AFTER CONCRETE HAS BEEN PLACED WITHOUT DISLORGING AGGREGATE, OR USE A KEYED COLD JOINT.
- I. CUT SLABS-ON-GRADE INTO AREAS OF APPROXIMATELY 225 SQUARE FEET MAINTAINING AS CLOSE TO SQUARE AREAS AS POSSIBLE. LENGTH TO WIDTH RATIOS OF JOINTED PANELS SHALL NOT EXCEED 1.5:1. COORDINATE LOCATIONS OF CONTROL JOINTS WITH ARCHITECT.
- J. CONTROL JOINTS IN WALLS SHALL BE PLACED AT 20'-0" O.C. MAXIMUM UNLESS NOTED OTHERWISE. LOCATE JOINTS BESIDE PIERS INTEGRAL WITH WALLS, NEAR CORNERS, AND IN CONCEALED LOCATIONS WHERE POSSIBLE. CONSTRUCTION JOINTS MAY BE PLACED IN LIEU OF CONTROL JOINTS AT CONTRACTOR'S DISCRETION. COORDINATE LOCATION OF CONTROL JOINTS WITH ARCHITECT.
- K. PRIOR TO PLACING CONCRETE IN ANY LOCATION, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THOROUGHLY CHECKED AND COORDINATED ALL DIMENSIONS, ELEVATIONS, OPENINGS, RECESS, AND BLOCKOUTS AS SHOWN ON ANY CONTRACT DRAWINGS. IN THE EVENT ERRORS, CONFLICTS, OR OMISSIONS EXIST, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE ARCHITECT OR ENGINEER FOR NECESSARY CORRECTIVE ACTION.
- L. EMBEDDED ITEMS ARE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR PRIOR TO PLACING CONCRETE.
- M. ANCHOR RODS AND ANCHOR BOLTS SHALL BE HELD IN PLACE WITH A RIGID TEMPLATE.
- N. HORIZONTAL JOINTS BEYOND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUCTED WITHOUT THE APPROVAL OF THE ARCHITECT AND ENGINEER.

12. MASONRY
- A. MASONRY UNIT COMPRESSIVE STRENGTH (f'_m) = 1500 PSI. MORTAR - TYPE S.
- B. LINTELS SHALL BE STEEL BEAMS OR MASONRY BOND BEAMS AS SHOWN ON THE PLANS. OPENINGS LESS THAN 4'-0" WIDE SHALL BE A BOND BEAM WITH (2) #5 CONTINUOUS EXTENDING PAST OPENINGS A MIN. OF 2'-0".
- C. GROUT ALL REINFORCED CELLS AND CELLS BELOW GRADE SOLID.
- D. PLACE A BOND BEAM WITH (2) #5 CONTINUOUS AT THE TOP OF WALLS & 8'-0" O.C. VERTICALLY.
- E. REINFORCE 8" CMU WALLS WITH #5 @ 32" O.C. VERT. AND 12" CMU WALLS WITH #5 @ 24" O.C. VERT. UNLESS NOTED OTHERWISE. IN ADDITION, REINFORCE WALL CORNERS AND JAMBS OF WINDOWS AND DOORS WITH (2) #5 EXTENDING PAST OPENINGS A MIN. OF 2'-0".
- F. BRACE THE TOPS OF PARTITION WALLS TO THE UNDERSIDE OF DECK.
13. ROUGH CARPENTRY
- A. HEADERS, JOISTS, AND RAFTERS SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REQUIREMENTS. (EXAMPLE SPECIES: #2 SPRUCE-PINE-FIR)
1. F_b 875 PSI
2. F_v 135 PSI
3. F_c 1150 PSI
4. E 1400 KSI
- B. TIMBER FRAMING MEMBERS SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REQUIREMENTS. (EXAMPLE SPECIES: #2 SPRUCE-PINE-FIR)
1. F_b 875 PSI
2. F_v 135 PSI
3. F_c 1150 PSI
4. E 1400 KSI
- C. ALL LVL MEMBERS SHALL BE 2.0E MICROLAM OR APPROVED EQUAL.
- D. ALL WOOD FRAMING MEMBERS INDICATED ARE NOMINAL SIZES. PROVIDE ACTUAL DRESSED SIZES, KILN-DRIED, WITH MAXIMUM IN-PLACE MOISTURE CONTENT OF 19%.
- E. ALL BOLTS ARE A36 OR A307, GRADE 1, AND ALL NAILS ARE COMMON WIRE NAILS UNLESS NOTED OTHERWISE.
- F. LAY ALL STRUCTURAL PANELS WITH FACE GRAIN PERPENDICULAR TO SUPPORTING MEMBERS AND OFFSET END JOINTS 4'-0". PANELS TO BE APA RATED AND STAMPED FOR THE LOADING SHOWN IN SECTION 2 "DESIGN" AND SHOULD MATCH THE SUPPORT SPACING SHOWN ON THE PLANS.
- G. ROOF DECKING SHALL BE 3/4" THICK APA RATED EXTERIOR GRADE SHEATHING FASTENED WITH 10d NAILS AT 6" O.C. ON EDGES AND 12" O.C. IN FIELD UNLESS NOTED OTHERWISE. FASTENER QUALITY, QUANTITY, SIZE, AND SPACING SHALL COMPLY WITH IBC FASTENING SCHEDULE (TABLE 2304.9) UNLESS NOTED OTHERWISE.
- H. ALL WOOD IN CONTACT WITH CONCRETE OR EXPOSED TO WEATHER SHALL BE PRESERVATIVE TREATED.

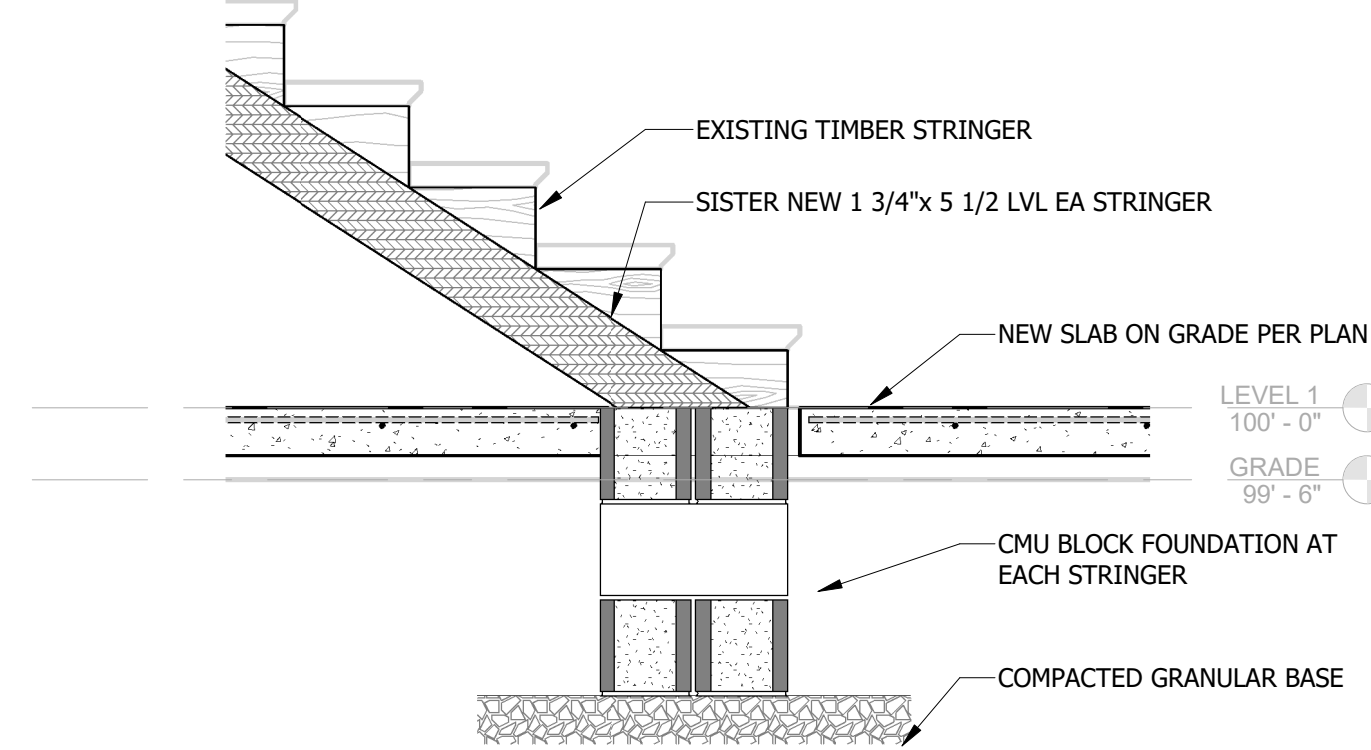
14. STRUCTURAL STEEL
- A. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST APPLICABLE EDITION AND AISC CODE OF STANDARD PRACTICE.
- B. ALL STRUCTURAL STEEL FOR WIDE FLANGE SHALL BE A992 GRADE 50 UNLESS NOTED OTHERWISE. ALL ANGLES, PLATES AND CHANNELS SHALL BE ASTM A36 UNLESS NOTED OTHERWISE. ALL RECTANGULAR AND ROUND HSS SHAPES SHALL BE ASTM A500, GRADE B.
- C. ALL BOLTS SHALL BE 3/4" Ø A-325 BOLTS WITH HEAVY HEX HEADS UNLESS NOTED OTHERWISE. ALL CONNECTIONS SHALL HAVE A MINIMUM OF (2) 3/4" Ø BOLTS, BEARING TYPE CONNECTIONS ONLY.
- D. ALL STRUCTURAL STEEL WELDS IN THE SHOP OR IN THE FIELD SHALL BE PERFORMED BY A QUALIFIED WELDER AND SHALL CONFORM TO THE CURRENT REQUIREMENTS OF A.W.S.
- E. SHOP WELDED AND FIELD BOLTED CONNECTIONS ARE PREFERRED UNLESS NOTED OTHERWISE.
- F. THE CONTRACTOR SHALL PROVIDE SHELF ANGLES, GLASS SUPPORTS, LINTELS, AND OTHER MISC. STEEL AS SHOWN ON THESE DRAWINGS AS REQUIRED TO PROVIDE SUPPORT (STABILIZATION) AROUND AND THROUGHOUT THE BUILDING. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL MISC. STEEL DETAILS.



8 RETAINING WALL
3/4" = 1'-0"



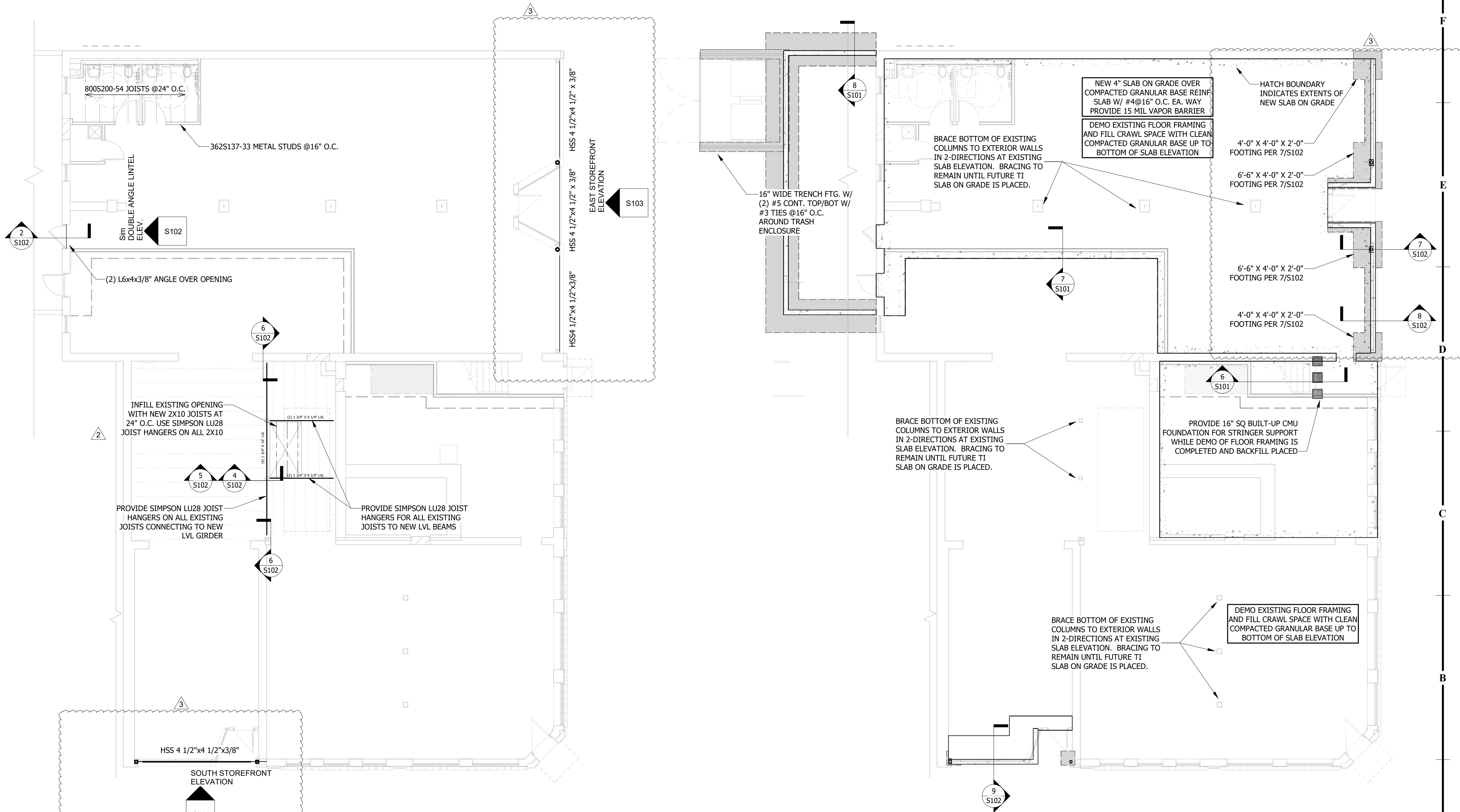
7 SLAB EDGE
3/4" = 1'-0"



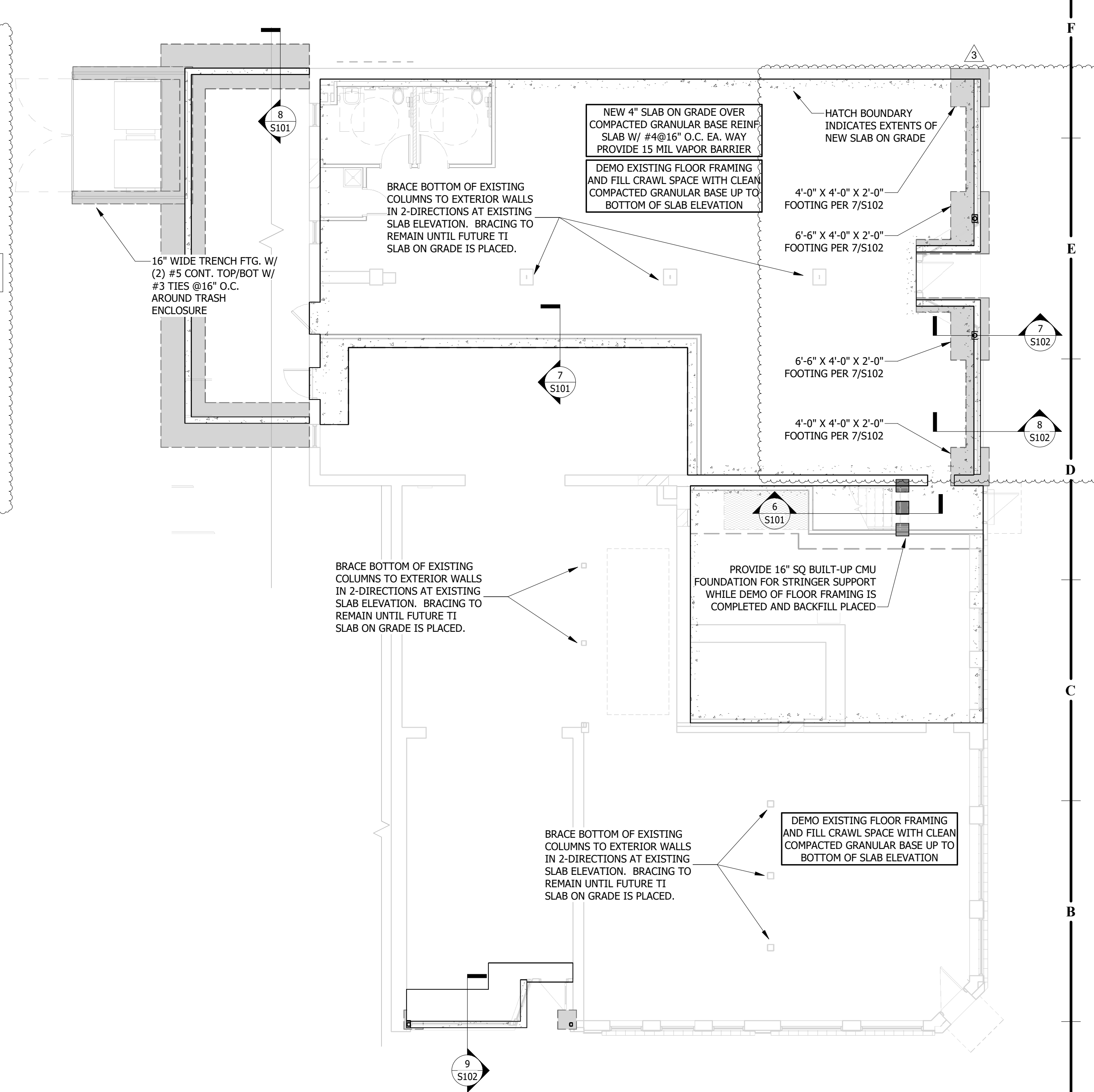
6 EGRESS STAIR FRAMING
3/4" = 1'-0"

FOUNDATION PLAN NOTES:

- TOP OF CONCRETE SLAB ELEVATION = 99'-0".
- 4" SLAB ON GRADE REINFORCED WITH 6x6 W2.9xW2.9 OVER 4" GRANULAR FILL AND 10 MIL VAPOR BARRIER, UNLESS NOTED OTHERWISE.
- SLAB CONTROL AND CONSTRUCTION JOINTS PER DETAIL A5/S301. CONSTRUCTION JOINTS MAY BE SUBSTITUTED FOR CONTROL JOINTS AT THE CONTRACTOR'S DISCRETION.
- ISOLATION JOINTS PER DETAIL A12/S301.
- FOOTING STEPS PER DETAIL E1/S301.
- #4x5'-0" LONG AT ALL RE-ENTRY CORNERS.
- CONTRACTOR TO COORDINATE ALL FLOOR AND SLAB PENETRATIONS WITH ALL OTHER DISCIPLINES.
- DURING INSTALLATION OF ALL POST CONSTRUCTION ANCHORS, CARE MUST BE TAKEN TO AVOID ALL REINFORCING.
- REFER TO ARCHITECTURAL FOR NON-LOAD BEARING WALL LOCATIONS.
- REFER TO ARCHITECTURAL FOR ALL DIMENSIONS NOT SHOWN ON THESE DRAWINGS.
- ALL JACK STUDS TO BE CARRIED DOWN TO FOUNDATION LEVEL.
- SHEAR WALL HOLDOWN PER DETAIL K16/S201.
- REFER TO SHEET S201 FOR SHEAR WALL INFORMATION.
- ALL SILL ANCHORS TO BE 1/2" DIA. SIMPSON TITEN HD @32" WITH 3 1/2" EMBEDMENT.



9 2ND FLOOR PLAN
1/8" = 1'-0"



1 LEVEL 1 FLOOR PLAN
1/8" = 1'-0"

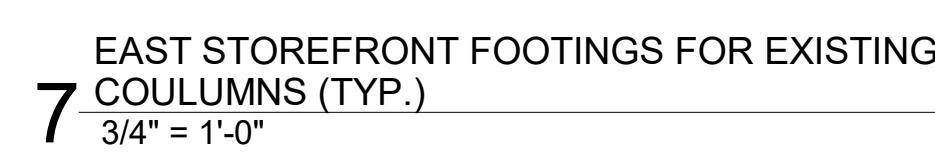
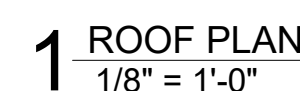
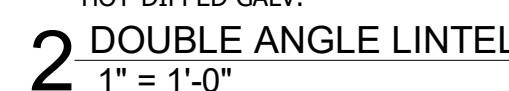
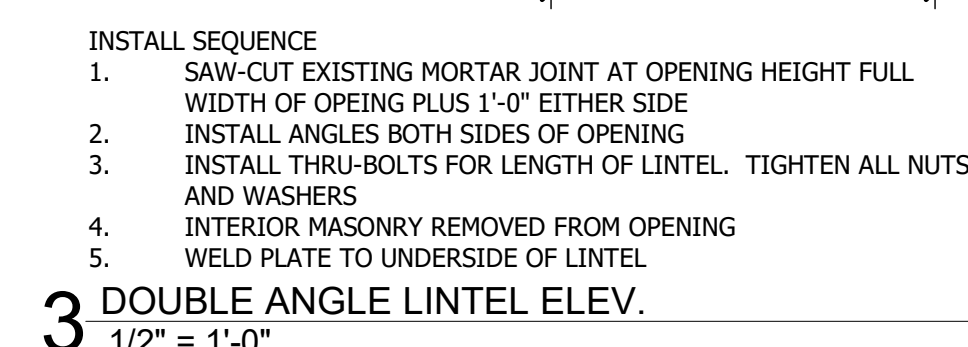
2230 SW MAIN ST.
LEE'S SUMMIT, MO 64063

REVISION DATES:

1	City Comments
2	Revision 2
3	Owner Revisions



STRUCTURAL PLANS AND SECTIONS



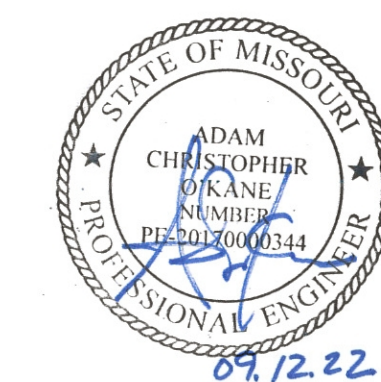
MAIN STREET LANDLORD IMPROVEMENTS

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

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REVISION DATES:

3	Owner	Revisions	9/12/22
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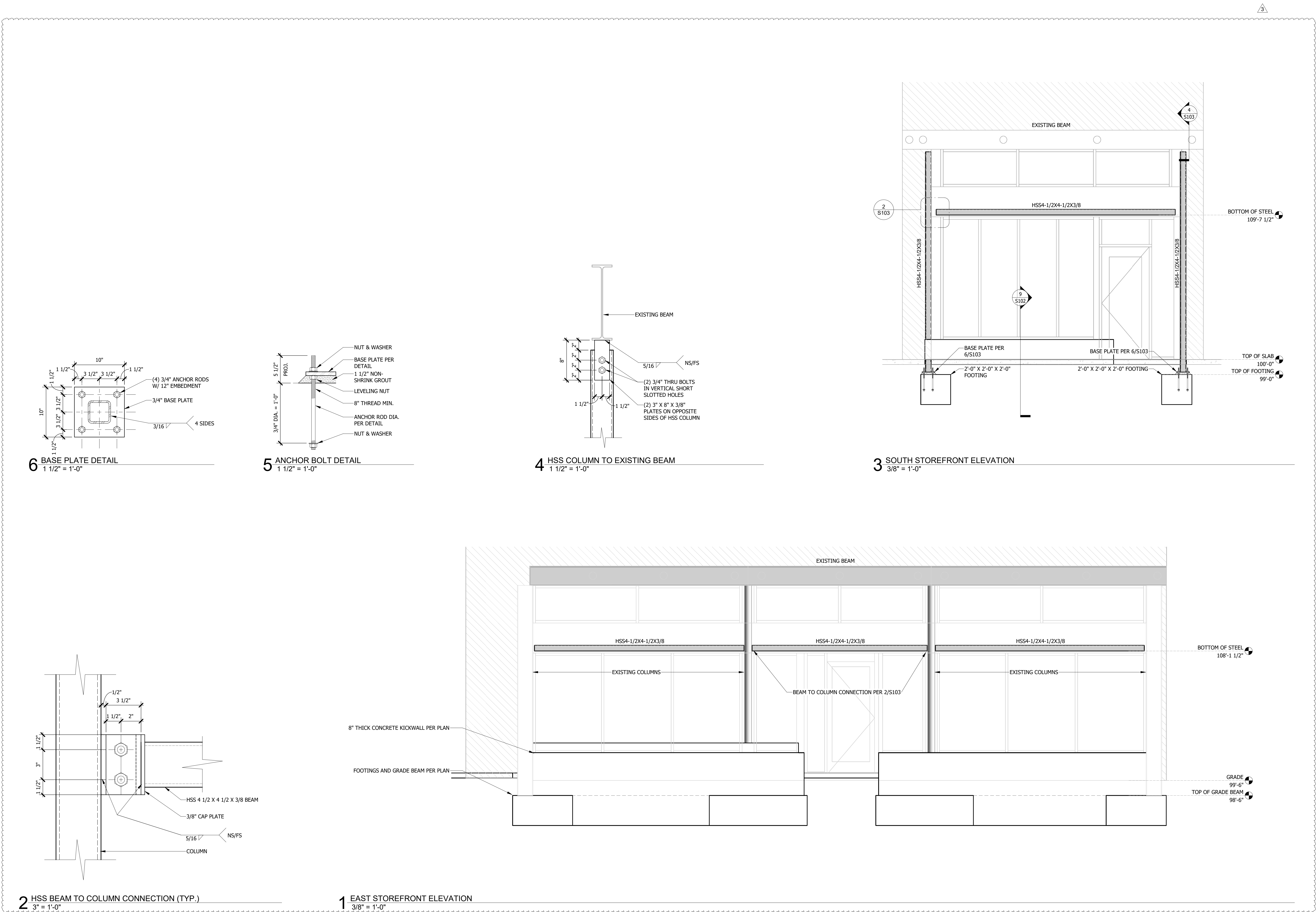
PROFESSIONAL SEAL

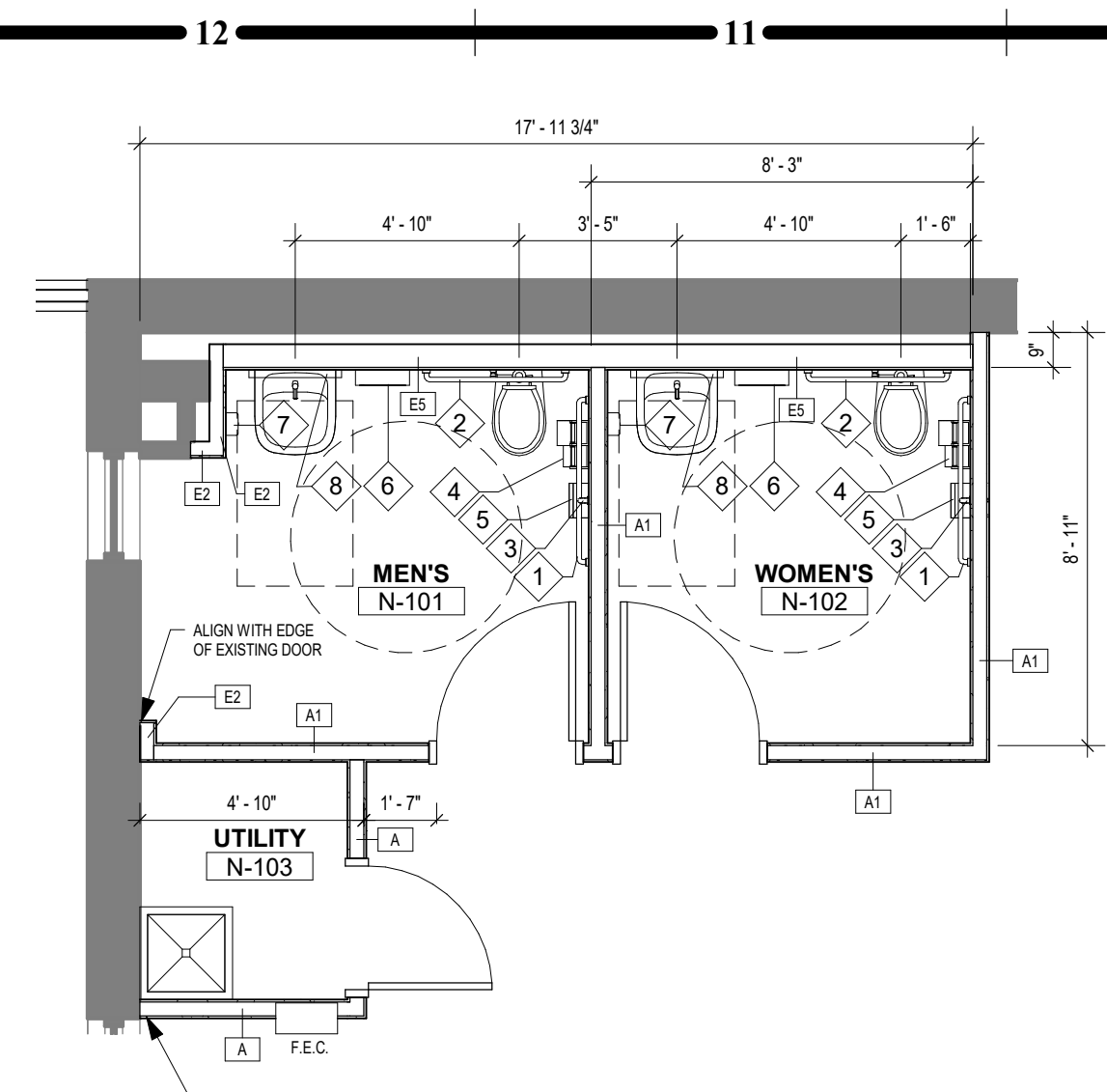
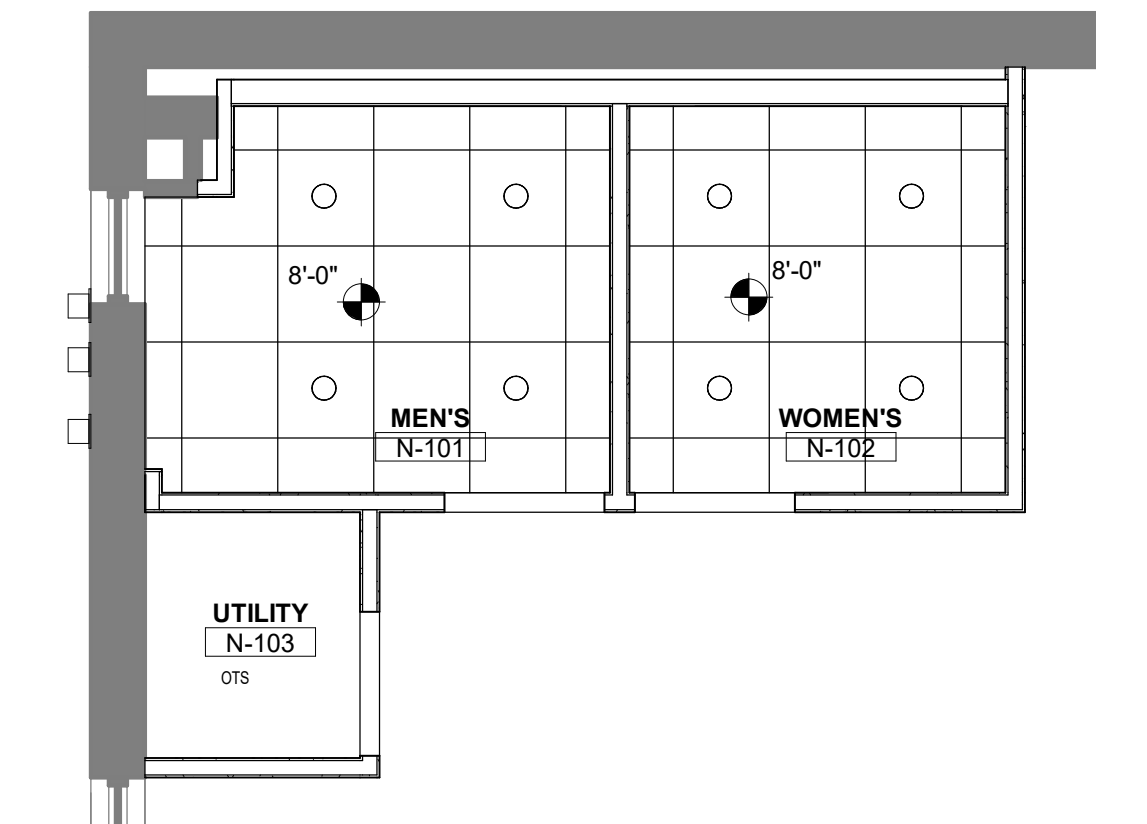
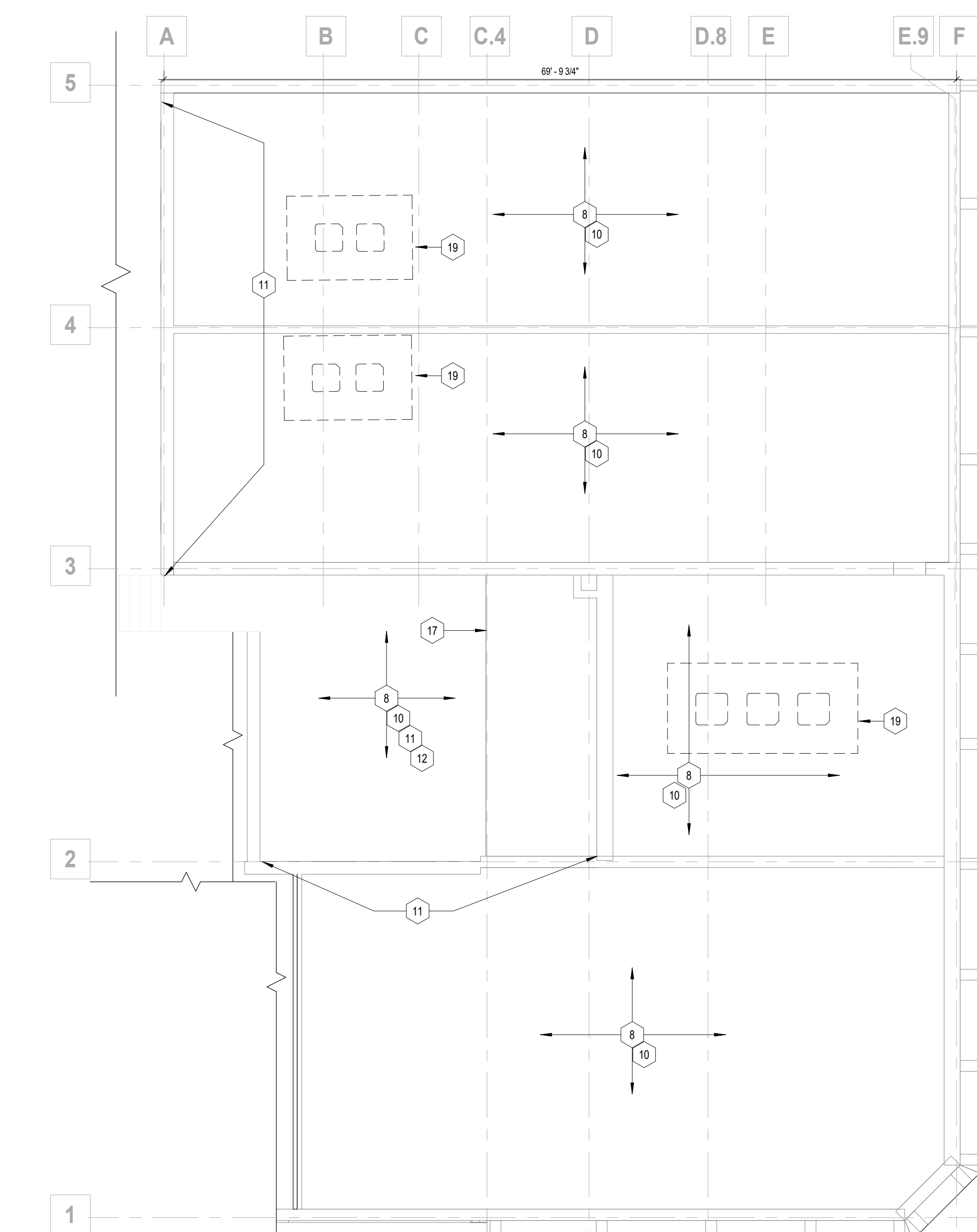
S103

ISSUE DATE: APRIL 21, 2022
COLLINS WEBB #: 21121

PERMIT SET

STRUCTURAL ELEVATIONS AND
SECTIONS

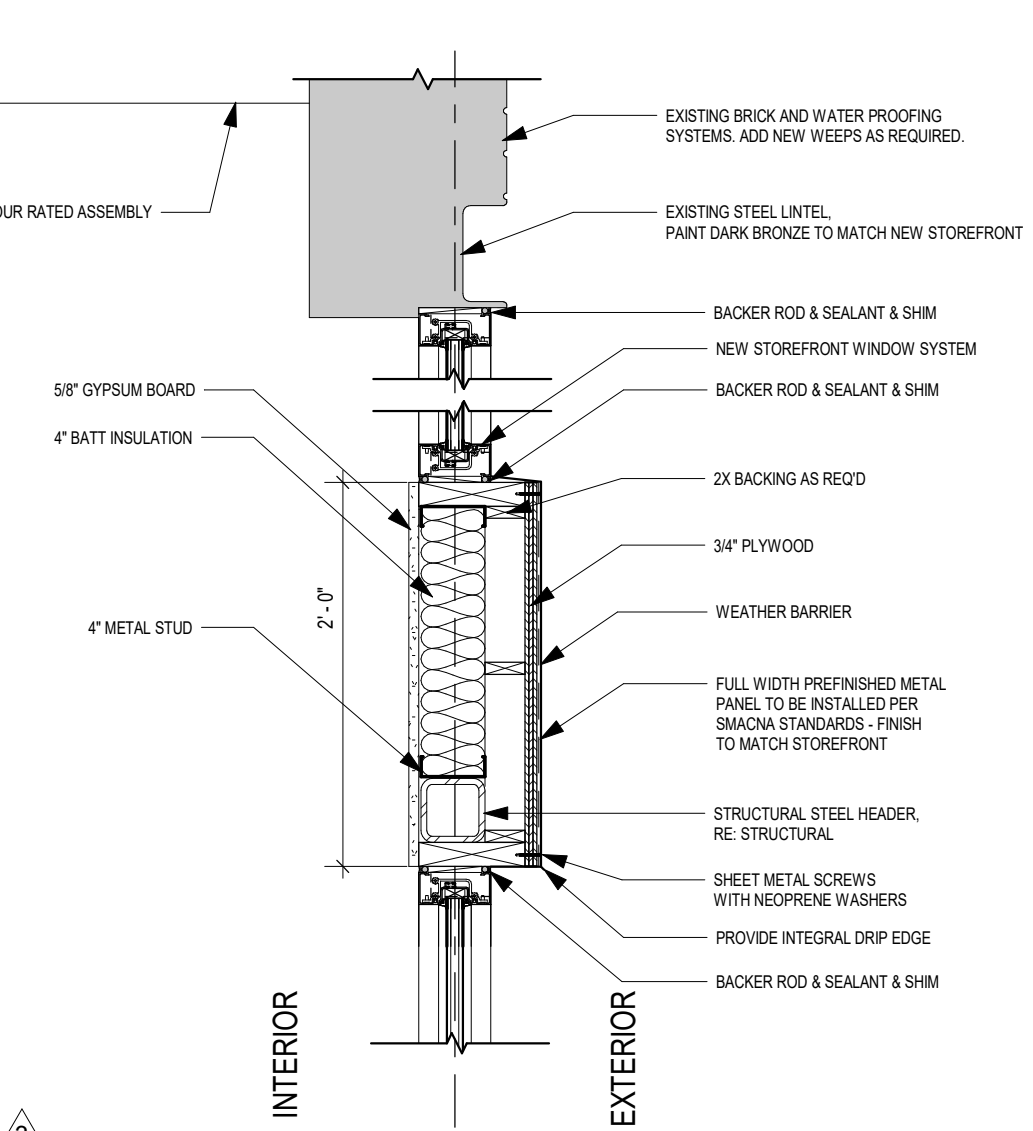
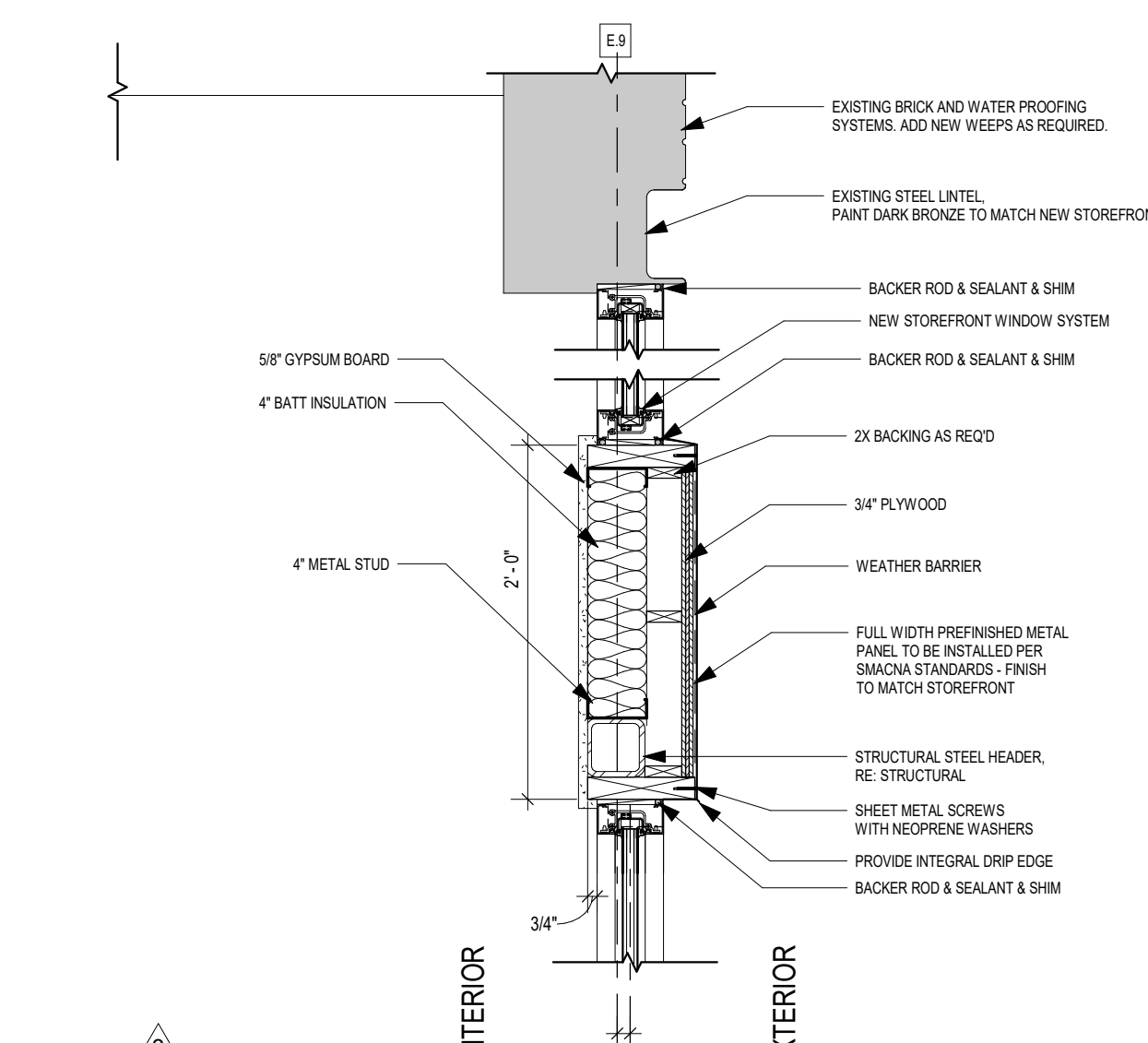
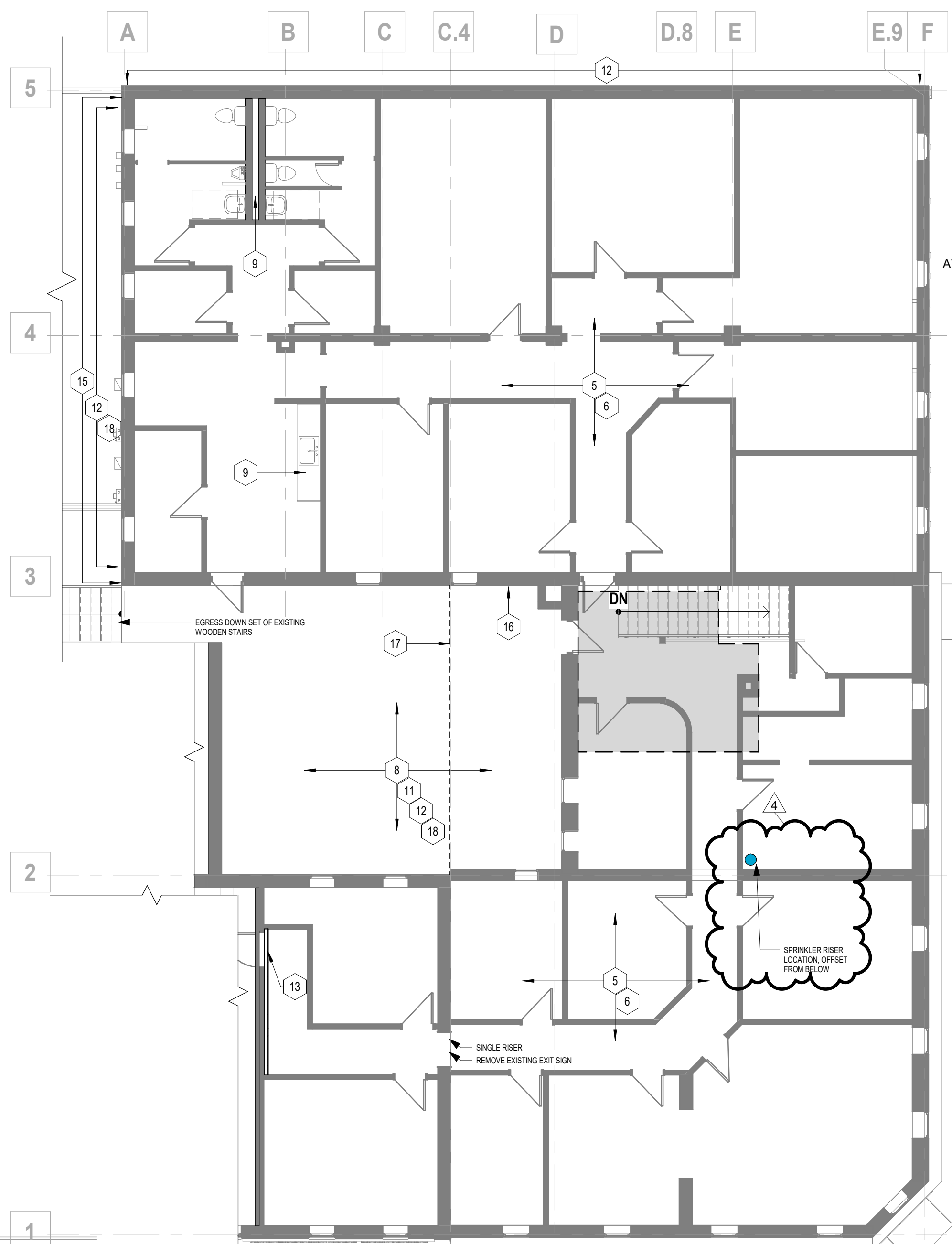
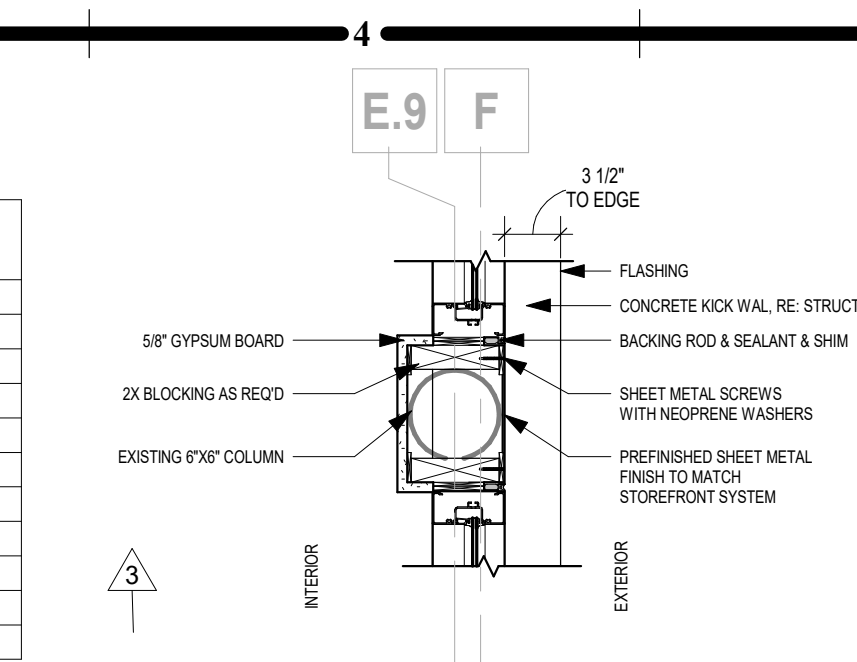
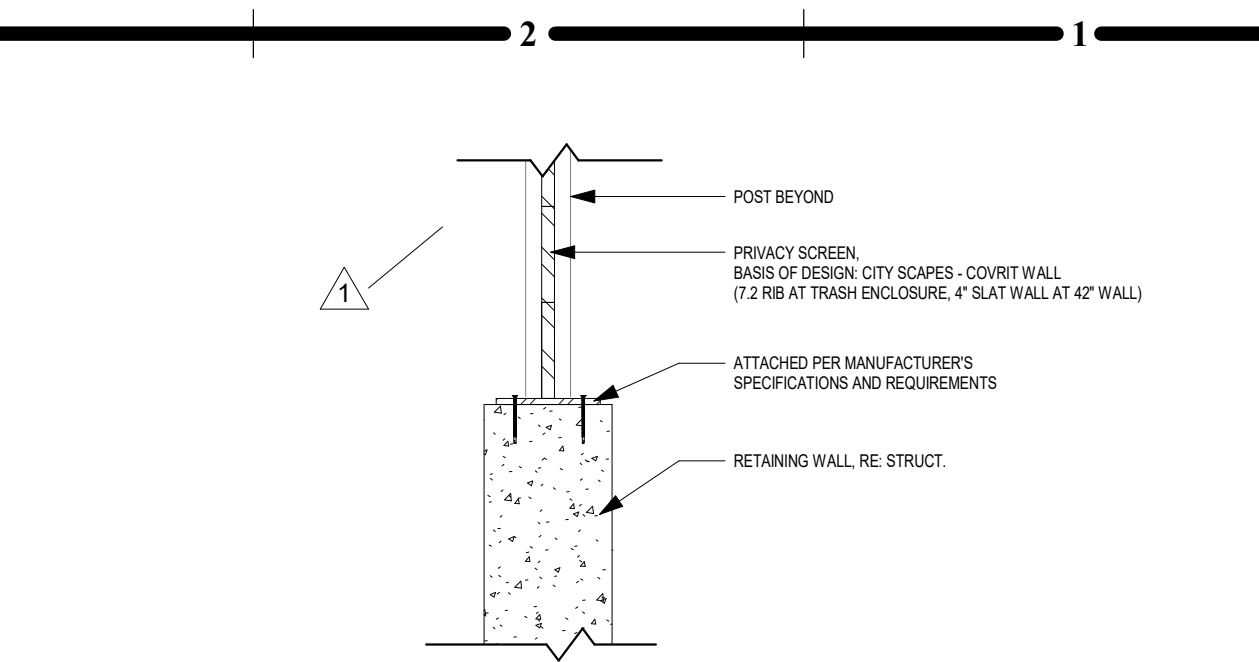
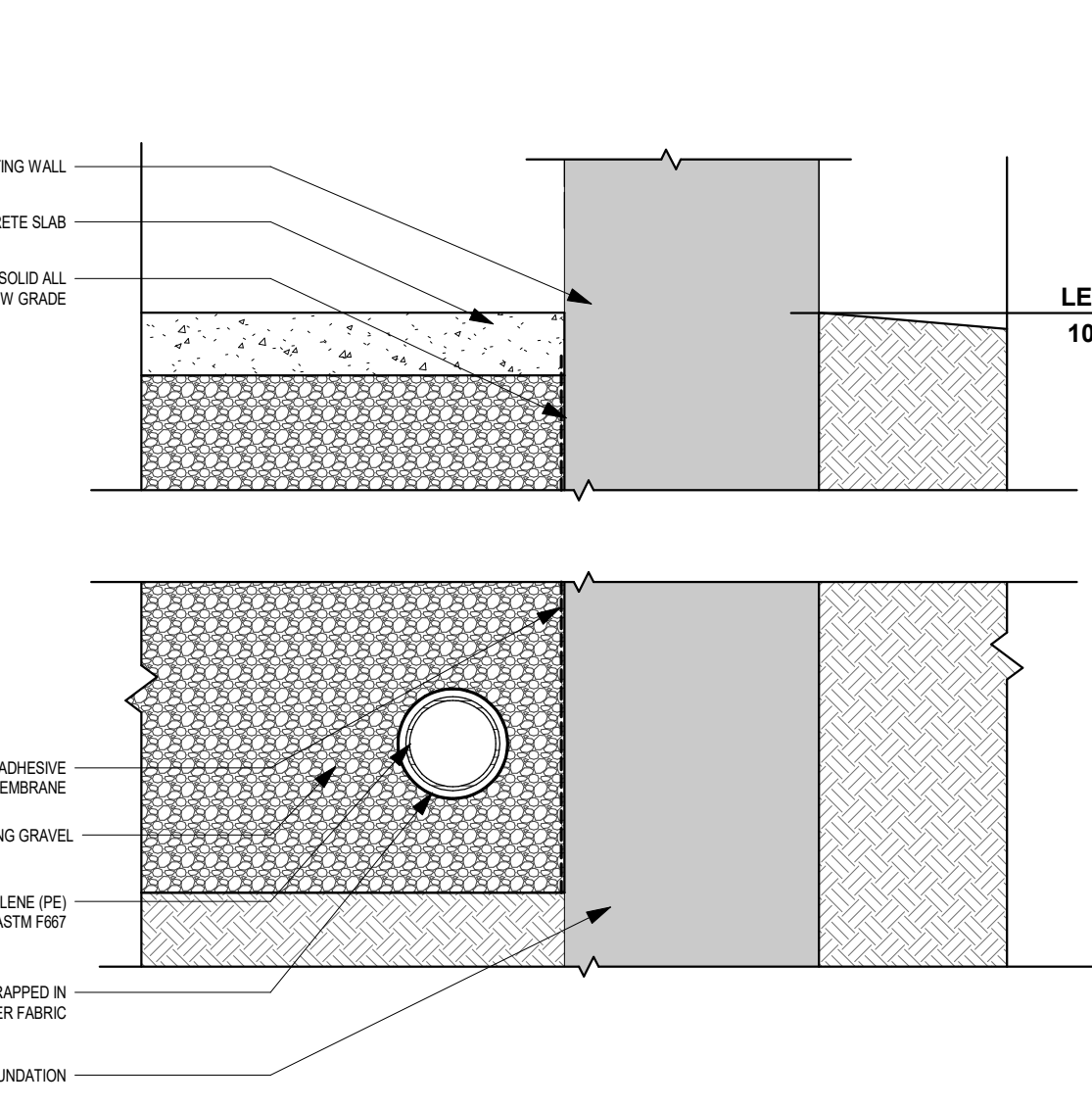
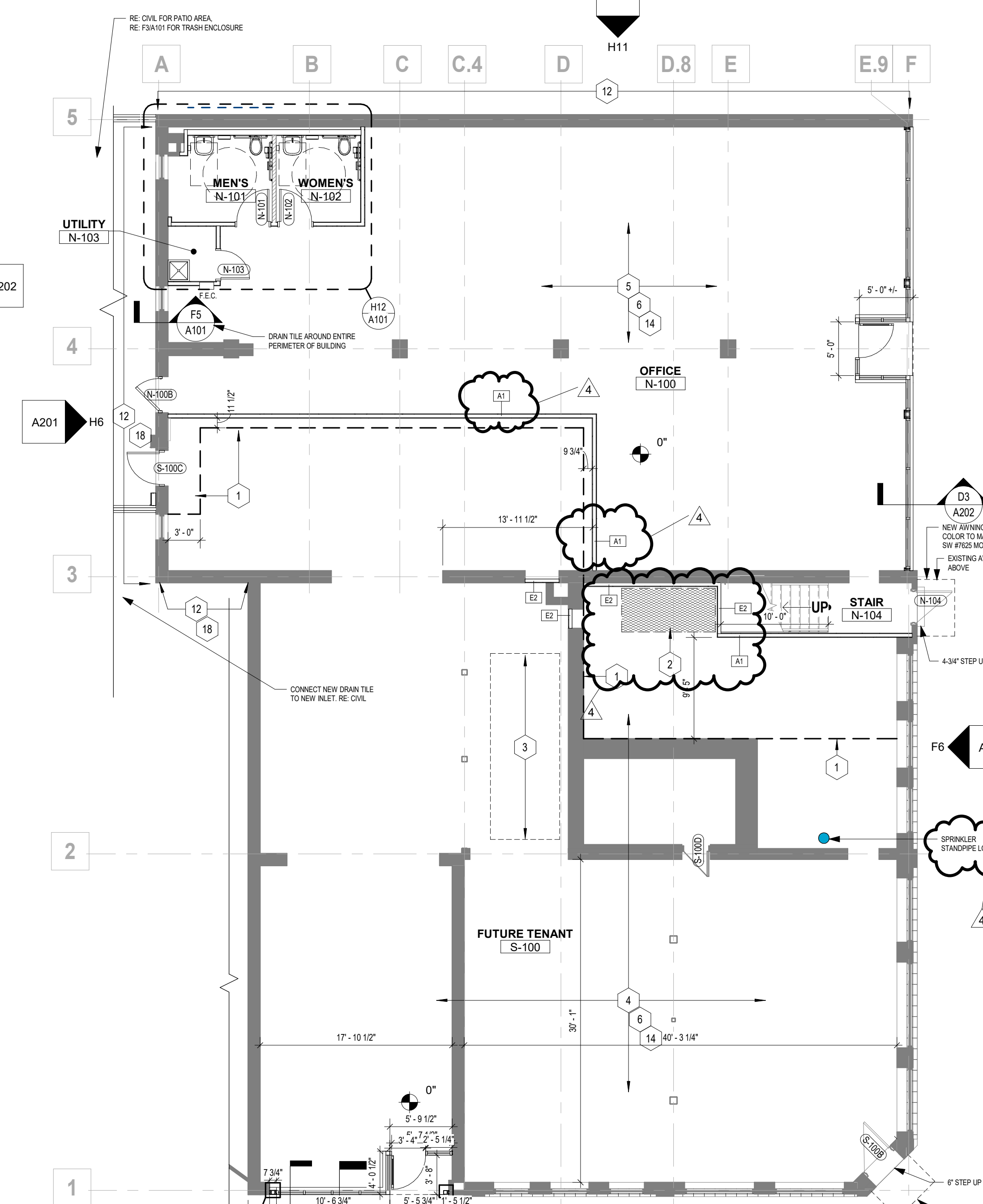


**H12** ENLARGED PLAN - 1ST FLOOR
1/4" = 1'-0"**F12** RCP - 1ST FLOOR
1/4" = 1'-0"**A12** ROOF PLAN
1/8" = 1'-0"

ACCESSORY SCHEDULE						
TYPE MARK	MANUFACTURER	DESCRIPTION	MODEL	WxHxD	FINISH	COMMENTS
1	BOBRICK WASHROOM EQUIPMENT, INC.	GRAB BAR, 1-1/4" DIA., SS, 42"	B-5806-42	1-1/4" DIA x 42"	SATIN W/ PEENED GRIP	1
2	BOBRICK WASHROOM EQUIPMENT, INC.	GRAB BAR, 1-1/4" DIA., SS, 36"	B-5806-36	1-1/4" DIA x 36"	SATIN W/ PEENED GRIP	1
3	BOBRICK WASHROOM EQUIPMENT, INC.	VERTICAL GRAB BAR, 1-1/4" DIA., SS, 18"	B-5806-18	1-1/4" DIA x 18"	SATIN W/ PEENED GRIP	1
4	BOBRICK WASHROOM EQUIPMENT, INC.	CLASSIC SERIES MULTI-ROLL TOILET TISSUE DISPENSER	B-2888		SATIN	1
5	BOBRICK WASHROOM EQUIPMENT, INC.	TRIMLINE SERIES SANITARY NAPKIN DISPOSAL	B-35139		SATIN	1
6	BOBRICK WASHROOM EQUIPMENT, INC.	CONTURA SERIES PAPER TOWEL DISPENSER/WASTE RECEPTACLE	B-43949		SATIN	1
7	BOBRICK WASHROOM EQUIPMENT, INC.	AUTOMATIC SOAP DISPENSER	B-2013	4 1/4" x 10 17/32" x 4 7/32"	SATIN	1
8	MIRROR - COORD. W/ OWNER			2' W x 4' H		2

GENERAL NOTES:
A. ALL TOILET ACCESSORIES LOCATIONS BASED ON PLAN LAYOUT.
B. REFER TO GO22 AND MANUFACTURERS SPECIFICATIONS FOR MOUNTING HEIGHTS.
C. COORDINATE ALL MOUNTING HEIGHTS W/ PLUMBING FIXTURES TO ALLOW PROPER OPERATION & INFORM ARCHITECT IN WRITING OF ANY CONFLICTS.
D. FOR ANY ITEM NOTED AS FF&E, G.C. TO COORDINATE DIRECTLY W/ OWNER FOR PREFERRED MOUNTING HEIGHTS, U.N.O.

REMARKS:
1. SURFACE-MOUNTED.
2. MIRRORS TO BE CENTERED AT SINKS, TYP.

**F10** SECTION DETAIL - NEW STOREFRONT - SOUTH
1" = 1'-0"**F8** SECTION DETAIL - NEW STOREFRONT - EAST
1" = 1'-0"**A8** 2ND FLOOR PLAN
1/8" = 1'-0"**J4** PLAN DETAIL - NEW STOREFRONT - COLUMN - EAST
1" = 1'-0"**J3** PRIVACY SCREEN ATTACHMENT
1" = 1'-0"**F5** SECTION DETAIL - DRAIN TILE SYSTEM
1" = 1'-0"**A4** 1ST FLOOR PLAN
1/8" = 1'-0"**GENERAL NOTES:
FLOOR PLANS**

1. RE: GENERAL ARCHITECTURAL SHEETS FOR ADDITIONAL NOTES AND DETAILS THAT ARE APPLICABLE.
2. ARCHITECTURAL ELEVATION 100'-0".
3. DIMENSIONS SHOWN ON THE FLOOR PLAN ARE TO THE FACE OF GYP. BOARD WALL (F00), FACE OF MASONRY (F01), FACE OF CONCRETE WALLS (F02), AND COLUMN GRID LINES, UNLESS NOTED OR SHOWN OTHERWISE.
4. NOTE: WALL THICKNESSES ARE ACTUAL DIMENSIONS AND PER WALL TYPES SEE GENERAL SHEETS.
5. DOOR OPENINGS NOT LOCATED BY DIMENSION SHALL BE CENTERED IN WALL SHOWN OR LOCATED 4 INCHES FROM FINISH WALL TO HINGE SIDE OF THE DOOR, ALWAYS ALLOWING A MINIMUM OF 18" FROM FULL SIDE (STRIKE SIDE) OF THE DOOR TO THE INTERSECTING WALL OR OTHER PROTRUDING OBJECTS.
6. ALL ALCOVES WITHOUT A SPACE IDENTIFICATION NUMBER SHALL HAVE THE SAME FINISHES AS THE ADJOINING SPACES.
7. PROVIDE FINISH LEVELS AS DESCRIBED:
LEVELS:
- ALL WALLS TO BE BROUGHT UP TO LEVEL 4 FINISH.
- AREAS FOR BACK OF HOUSE EMPLOYEE OPERATIONS WHERE ROOM SIDE WALLS AND/OR CEILINGS HAVE PAINTED SURFACES.
CONCESSION AND CIRCULATION CORRIDORS WHERE ROOM SIDE WALLS AND/OR CEILINGS HAVE PAINTED SURFACES.
8. RE: FINISH LEGEND, FINISH SCHEDULE AND SPECIFICATIONS FOR DOOR AND DOOR FRAME FINISHES.
9. STAIR ENCLOSURES, SHAFT WALLS, EXIT PASSAGEWAYS AND EXTERIOR WALLS TO BE COORDINATED FOR PHASE OF WORK PER MATRIX AND PROJECT SCOPING.
10. MAINTAIN AND PROTECT EXISTING EXPANSION JOINTS DURING CONSTRUCTION. PATCH/REPAIR AS REQUIRED TO MATCH EXISTING RATINGS AS REQUIRED ON THE SHELL PORTION OF PROJECT.
11. 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 THROUGH VARIANCES OF OTHER LEGAL PROCEDURES.
12. DRAIN TILE DETAIL, PER IRC 2018, PERFORATED POLYETHYLENE (PE) PLASTIC PIPE, SMOOTH WALL, WRAPPED IN FILTER FABRIC.
13. FLUID APPLIED BARRIER AT FOUNDATION:
BASIS OF DESIGN: W.R. MENDOTA, SEALTIGHT - HYDRAULIC 835 SL #709-A.
SUBMITTAL REQUIRED - SUBMIT TO ARCHITECT.
14. GUARDRAILS - GUARDRAILS SHALL BE DESIGNED TO RESIST A LINEAR LOAD OF 50 POUNDS PER LINEAR FOOT IN ACCORDANCE WITH SECTION 4.5.1.1 OF ASCE 7. GUARDRAILS SHALL BE DESIGNED TO RESIST A CONCENTRATED LOAD OF 200 POUNDS IN ACCORDANCE WITH SECTION 4.5.1.1 OF ASCE 7.

**FLOOR PLAN KEYED
NOTES**

- | MARK | DESCRIPTION |
|------|--|
| 1 | EXTENTS OF NEW CONCRETE SLAB. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION. |
| 2 | UNDERSIDE OF STAIR TO RECEIVE 1-HR RATING ON UNDERSIDE OF STRINGER TO MAINTAIN CONTINUOUS RATING OF FLOOR/CEILING WALL ASSEMBLY. MUST MAINTAIN THE 2-HOUR HORIZONTAL RATING OF THE CEILING PLANE. |
| 3 | REMOVE LOCATION OF RESTROOM CORRIDOR. REFER TO MEP DOCUMENTS FOR ADDITIONAL INFORMATION. |
| 4 | ENTIRE CEILING TO RECEIVE A 2-HOUR RATING TO SEPARATE FROM FLOOR ABOVE. REFER TO UL ASSEMBLY #L511 (G506). |
| 5 | CEILING TO REMAIN. PATCH REPAIR AS REQUIRED. |
| 6 | ALL PLASTER OR GYPSUM BOARD WALLS TO BE PREPARED TO A LEVEL 4 FINISH. |
| 7 | REMOVE WINDOW AND PREPARE OPENING FOR NEW EGRESS DOOR. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION. |
| 8 | ANY ROOF MODIFICATIONS TO BE COMPLETED BY JR & CO. COORDINATE WITH BUILDING OWNER. ALL DEBRIS TO BE REMOVED AND ROOFING SYSTEM TO HAVE POSITIVE SLOPE AWAY FROM BUILDING TO GUTTER SYSTEM. ENTIRE ROOF TO BE REVIEWED FOR REPAIRS. PROVIDE COMPLETE ANALYSIS TO OWNER FOR REVIEW. |
| 9 | RECONNECT SANITARY AND WATER AS REQUIRED FOR FUNCTIONAL PLUMBING. REFER TO MEP DOCUMENTS FOR ADDITIONAL INFORMATION. |
| 10 | REMOVE ALL DEBRIS FROM EXISTING ROOF. REPAIR ROOF TO ELIMINATE ANY PONDING AND PROVIDE POSITIVE DRAINAGE. |
| 11 | REPAIR ALL GUTTER SYSTEMS AND CONFIRM TO BE IN GOOD WORKING ORDER AND FREE OF DEBRIS. CONFIRM ALL SEAMS ARE WATERTIGHT AND ALL FLASHINGS TO AND AROUND GUTTER SYSTEM ARE IN GOOD WORKING ORDER. ALL GUTTERS AND DOWNSPOUTS TO BE SECURE TO THE BUILDING AND HAVE POSITIVE SLOPE FOR PROPER DRAINAGE. |
| 12 | PATCH/REPAIR STUCCO SYSTEM AND MAKE READY FOR NEW EXTERIOR PAINT. |
| 13 | INFILL EXISTING OPENING. PATCH/REPAIR AS REQUIRED. PAINT TO MATCH ADJACENT FINISH. |
| 14 | DRAIN TILE - PROVIDE 6" PERFORATED, SLEEVED DRAIN TILE AROUND ENTIRE PERIMETER AND ALONG ALL FOUNDATION WALLS. COLLECT AND CONNECT INTO STORM SEWER. REFER TO CIVIL FOR ADDITIONAL INFORMATION. |
| 15 | INFILL OPEN STUD CAVITY WITH SIMILAR MATERIALS. PROVIDE SCRATCH AND FINISH COATS TO MATCH EXISTING. PREPARE FOR NEW PAINT FINISH. |
| 16 | INFILL OPENING IN MASONRY. MATCH EXISTING. |
| 17 | EXISTING OVERHANG TO REMAIN. PAINT SOFFIT SW 7007 CEILING BRIGHT WHITE. |
| 18 | STUCCO TO MATCH PRIMARY PAINT COLOR. |
| 19 | NEW RTU CURBS AND OPENINGS. COORDINATE EXACT LOCATIONS WITH MEP/STRUCTURAL DOCUMENTS. |

**FLOOR PLANS, ENLARGED PLANS,
AND DETAILS****MAIN STREET BUILDING IMPROVEMENTS**

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

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REVISION DATES:

- | | | |
|---|-----------------|----------|
| 1 | City Comments | 5/17/22 |
| 3 | Owner Revisions | 9/12/22 |
| 4 | Owner Revisions | 12/08/22 |



PROFESSIONAL SEAL

A101
ISSUE DATE: 21 APRIL, 2022
COLLINS WEBB #: 21121

PERMIT DOCUMENTS



3075 SW Market Street, Lee's Summit, Mo. 64033 P. 816.249.2270
(www.collinswebb.com)

GENERAL NOTES EXTERIOR ELEVATIONS:

1. RE. SHEET G0.01 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
2. DIMENSIONS SHOWN ON THE EXTERIOR ELEVATIONS ARE TO THE FACE OF MTL. STUD WALL, FACE OF MASONRY (FOM), FACE OF CONCRETE WALLS (FCO), AND COLUMN GRID LINES, UNLESS OTHERWISE NOTED OR INDICATED.
3. RE. THE WINDOW TYPES SHEET FOR ALL EXTERIOR WINDOW TYPES AND GLASS TYPES.
4. **BRICK REPAIR** - REFER TO SPECIFICATIONS FOR BRICK REPAIR. ALL MASONRY CONTRACTOR TO REVIEW ALL ELEVATIONS FOR REPAIR/REPLACEMENT AS REQUIRED.
5. **JOINT SEALANTS** - REFER TO SPECIFICATIONS FOR JOINT SEALANT REPAIR. REMOVE/REPLACE REPAIR ALL JOINT SEALANTS ON THE BUILDING. PROVIDE 1/2" BACK ROD BEHIND SEALANTS BETWEEN ALL DISSIMILAR MATERIALS. COLOR TO MATCH ADJACENT MATERIALS.
6. CONTRACTOR SHALL FOLLOW STUCCO REPAIR AS OUTLINED WITHIN STO RESTORATION DETAIL SERIES. DETAIL MANUAL, IF CONTRACTOR USES ALTERNATE OR SUBSTITUTED MANUFACTURER, A SUBMITTAL SHALL BE PROVIDED CONTAINING SIMILAR DETAIL INFORMATION FOR ARCHITECT'S APPROVAL.
7. **EXTERIOR BRICK, STEEL, AND WOOD PAINT** - BASIS OF DESIGN: SHERWIN WILLIAMS - PRO INDUSTRIAL - PRE-CATALYZED WATERBASED URETHANE 865-1100 SERIES.
8. ALL OPENINGS TO BE FIELD VERIFIED PRIOR TO SHOP DRAWINGS BEING SUBMITTED FOR REVIEW AND APPROVAL.

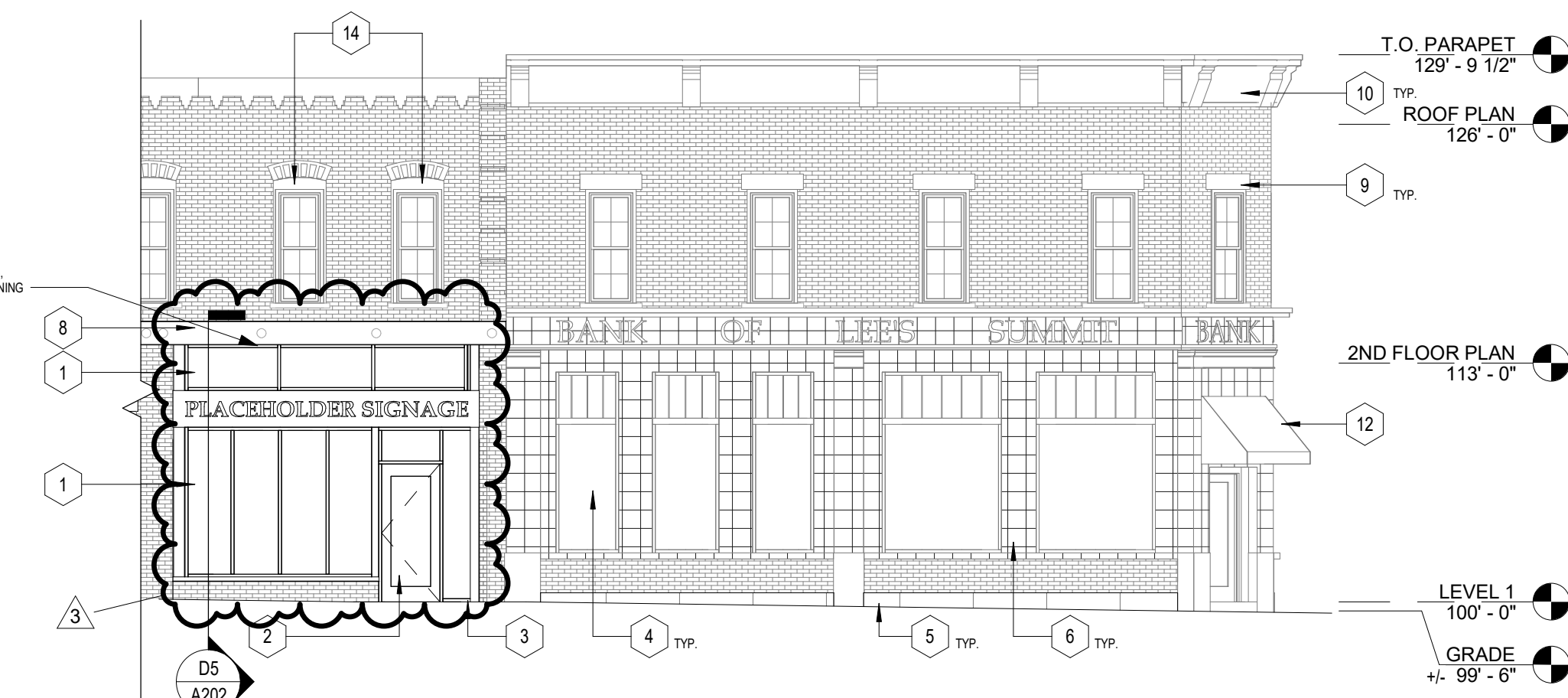
EXTERIOR ELEVATION KEYED NOTES

- | MARK | DESCRIPTION |
|------|---|
| 1 | STOREFRONT SYSTEM - BASIS OF DESIGN IS KAWNEER 450T FRAMING SYSTEM. GLAZING TO BE FRONT GLAZED. |
| 2 | SILL FLASHINGS - COLOR TO BE DARK ALUMINUM TO MATCH STOREFRONT. |
| 3 | BRICK - REPLACE ALL MISSING BRICK AND DAMAGED BRICK. COLOR TO MATCH EXISTING. TUCK POINT AS REQUIRED. PROVIDE BACKER ROD & SEALANT BETWEEN DISSIMILAR MATERIALS. TYP. RE. SPECIFICATIONS. |
| 4 | WOOD WINDOWS - REMOVE ALL LOOSE PAINT. PATCH/REPAIR/CAULK AS REQUIRED. PREPARE FOR NEW PAINT. |
| 5 | CAST STONE - TO BE RE-SET AND LEVELED. RE-GROUT AS REQUIRED. |
| 6 | GLAZED TILE - CLEAN AND TUCK-POINT. |
| 7 | WOOD DOOR - SAND AND REPAINT ENTRY DOOR AND FRAME. COLOR DARK BRONZE TO MATCH NEW WINDOW SYSTEM. |
| 8 | STEEL LINTEL - REMOVE ALL LOOSE MATERIAL AND REPAINT. |
| 9 | ALUMINUM WINDOWS / WINDOW HEAD DETAIL - ALUMINUM WINDOWS AT SECOND LEVEL EXISTING TO REMAIN. REMOVE ALL LOOSE MATERIAL. REPAIR CAST STONE HEADER AS REQUIRED AND REPAINT. |
| 10 | TOP OF WALL DETAIL - REMOVE ALL LOOSE MATERIAL AND REPAINT. REPAIR AS REQUIRED AND REFLASH TOP OF WALL AS NEEDED TO MAKE A WATER TIGHT SYSTEM. PREPARE FOR NEW FINISH. |
| 11 | REMOVE EXISTING WEATHERHOOD ABOVE EXTERIOR DOOR. 14"x14" OF EXISTING OPENING ABOVE DOOR TO REMAIN FOR NEW INTAKE LOUVER. INFILL REMAINDER OF EXISTING OPENING WITH SUB-FRAMING, SHEATHING, AND FINISH MATERIAL TO MATCH EXISTING. RE-MEP. REPLACE EXISTING DOOR WITH NEW HOLLOW METAL DOOR. |
| 12 | EXISTING AWNINGS - RE-ATTACH EXISTING AWNINGS TO BUILDING. NEW FABRIC ON AWNINGS TO MATCH SW #7625 MOUNT ETNA. |
| 13 | INSTALL NEW TEMPERED GLAZING AS REQUIRED. |
| 14 | REPLACE WOOD TRIM AT PERIMETER OF WINDOW WITH EXTERIOR/PAINT-GRADE LUMBER. MATCH EXISTING LUMBER SIZES. PAINT. |
| 15 | EXHAUST WALL CAPS. RE. MECH. PAINT TO MATCH WALL. |
| 16 | LOUVERS, RE. MECH. PAINT TO MATCH WALL. |
| 17 | ELEC. METER. RE. ELEC. |
| 18 | WALL PACK. RE. ELEC. |

EXTERIOR ELEVATION COLOR LEGEND

- | | |
|--|---|
| | PRIMARY COLOR:
SW #7594 CARRIAGE DOOR |
| | ACCENT COLOR 1:
SW #7625 MOUNT ETNA |
| | ACCENT COLOR 2:
SW #7675 SEALSKIN |
| | ACCENT COLOR 3:
SW #0009 EASTLAKE GOLD |
| | EXISTING GLAZED TILE TO REMAIN. RE. KEYNOTE #6 |

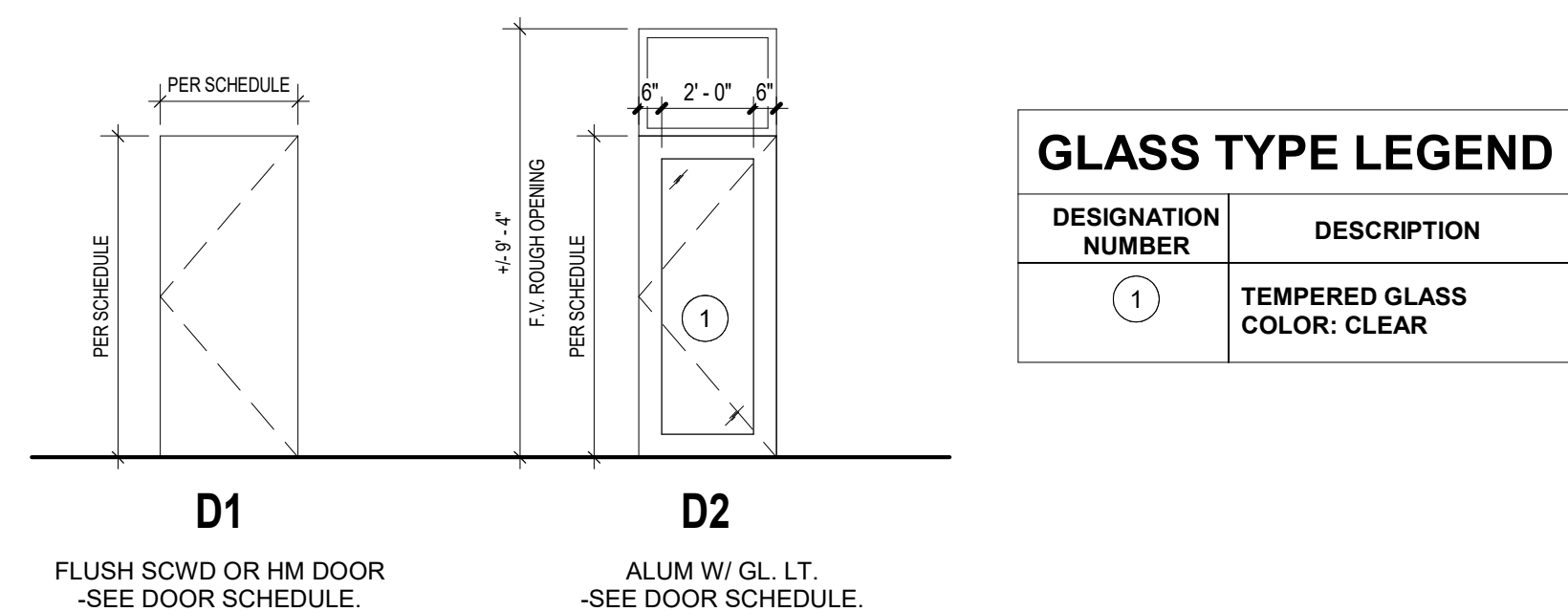
H11 NORTH ELEVATION
1/8" = 1'-0"



H6 WEST ELEVATION
1/8" = 1'-0"



F11 SOUTH ELEVATION
1/8" = 1'-0"



NOTE:
1. DOORS TO BE 1 3/4" THICK, UNLESS NOTED OTHERWISE ON DOOR SCHEDULE.

DOOR SCHEDULE									
DOOR #	WIDTH	HEIGHT	ROOM NAME	DOOR		FRAME		RTG	REMARKS
				TYPE	MATERIAL	FINISH	MATERIAL	FINISH	
N-100B	3'-0"	7'-0"	OFFICE	D2	ALUM/GLASS		ALUM		1, 3, 4, 5, 6, 7
N-101	3'-0"	7'-0"	MEN'S	D1	SCWD	PAINT	HM	PAINT	1, 3, 4, 6
N-102	3'-0"	7'-0"	WOMEN'S	D1	SCWD	PAINT	HM	PAINT	1, 3, 4, 6
N-103	2'-8"	7'-0"	UTILITY	D1	SCWD	PAINT	HM	PAINT	3, 4
N-104	EXIST	EXIST	STAIR	EXIST	EXIST	PAINT	EXIST	PAINT	1, 2, 3
S-100B	EXIST	EXIST	FUTURE TENANT	EXIST	EXIST	PAINT	EXIST	PAINT	1, 2, 3
S-100C	3'-0"	7'-0"	FUTURE TENANT	D1	HM	PAINT	HM	PAINT	1, 3, 4, 6
S-100D	EXIST	EXIST	FUTURE TENANT	EXIST	EXIST	EXIST	EXIST	EXIST	2, 3

DOOR SCHEDULE REMARKS:
1. MATCH EXISTING MASTER KEYING SYSTEM. COORDINATE WITH BUILDING OWNER.
2. MAINTAIN EXISTING HARDWARE.
3. PROTECT DOOR AND FRAME FROM DAMAGE THROUGHOUT CONSTRUCTION. ANY DAMAGE TO BE REPAIRED/REPLACED PER OWNER DISCRETION.
4. DOOR FRAME 2" OFF FINISHED FACE ON HINGE SIDE, U.N.O.
5. PROVIDE PANIC HARDWARE.
6. MANUALLY LOCKABLE FROM INSIDE OF ROOM. MASTER KEY LOCK ON OUTSIDE OF ROOM.
7. COORDINATE HARDWARE WITH MANUFACTURER.

F6 EAST ELEVATION
1/8" = 1'-0"



C6 SOUTH ELEVATION - COLOR
3/16" = 1'-0"

A8 EAST ELEVATION - COLOR
3/16" = 1'-0"



EXTERIOR ELEVATIONS AND DOOR SCHEDULE

1. RE: SHEET 301.01 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.

2. RE: THE ELEVATIONS ON THE EXTERIOR ELEVATIONS ARE TO THE FACE OF MTLT SUD WALL, FACE OF MASONRY (TOM) FACE OF CONCRETE SLABS (FCC) AND COLUMN AND BEAM EXTERIOR SURFACES.

3. RE: THE WINDOW TYPES SHEET FOR ALL EXTERIOR WINDOW TYPES AND GLASS TYPES.

4. **BRICK REPAIR.** REPAIR REPAIR SPECIFICATIONS FOR BRICK REPAIR. REPAIR CONTRACTOR TO REVIEW ALL ELEVATIONS FOR REPAIR/REPLACEMENT AS REQUIRED.

5. **JOINT SEALANTS.** REPAIR - REPAIR SPECIFICATIONS FOR JOINT SEALANTS. REPAIR CONTRACTOR TO REVIEW ALL ELEVATIONS ON THE BUILDING, PROVIDE 1/2" BACK ROD BEHIND SEALANTS BETWEEN ALL DISSIMILAR MATERIALS.

6. **CONTRACTOR SHALL FOLLOW STUCCO REPAIR AS OUTLINED WITHIN STUCCO RESTORATION MANUAL.**

7. **SEALANT.** REPAIR - REPAIR SPECIFICATIONS FOR SEALANT. REPAIR CONTRACTOR TO REVIEW ALL ELEVATIONS ALTERNATE OR SUBSTITUTED MANUFACTURER, A SUBSTITUTED SHALL BE PROVIDED CONTAINING SIMILAR PROPERTIES TO THE ORIGINAL.

8. **EXTERIOR BRICK, STEEL, AND WOOD PAINT.**

9. **SERIES DESIGN.** SHERMAN WILLIAMS - PRO INDUSTRIAL/PREFABRICATED WATERBASED URETHANE 856-1100-BASE

10. ALL OPENINGS TO BE FIELD VERIFIED PRIOR TO SHOP DRAWINGS SUBMITTAL FOR REVIEW DATA SHEET APPROVAL.

11. **NOTE FOR CONTRACTOR TO FOLLOW MANUFACTURER RECOMMENDATIONS AND PREPARE REVIEW DATA SHEET PRIOR TO THE EXTERIOR URETHANE COATING APPLICATION ON BRICK, APPLY CONCRETE AND MASONRY PAINTS ON BASED ON THE MANUFACTURER'S INSTRUCTIONS AND COATS AS RECOMMENDED BY MANUFACTURER.**



SHEET INDEX

MEP001	COVER SHEET
MEP002	THROUGH PENETRATION DETAILS
MEP101	ROOF PLAN
M011	DEMOLITION - FLOOR PLANS
M111	MECHANICAL - FLOOR PLANS
M201	MECHANICAL - SCHED./DETAILS
P011	DEMOLITION - FLOOR PLANS
P111	PLUMBING - FLOOR PLANS
P201	PLUMBING - RISER DIAGRAMS
P301	PLUMBING - SCHED./DETAILS
E011	DEMOLITION - FLOOR PLANS
E111	ELECTRICAL - FLOOR PLANS
E301	ELECTRICAL - RISER DIAGRAMS
E302	ELECTRICAL - PANELBOARD SCHEDULES
E401	ELECTRICAL - SCHED./DETAILS

ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

CIRCUITING

	HOME RUN (2/12 1/12 UNO)
	INDICATES 2 PHASE, 1 N, & 1 GND CONDUCTOR
	HOME RUN: INDICATES SHARED CIRCUIT
	HOME RUN: INDICATES #10 CONDUCTORS ENTIRELY

UTILITIES

	UNDERGROUND ELECTRICAL
	OVERHEAD ELECTRICAL
	TELECOMMUNICATIONS CONDUIT
	UNDERGROUND TELECOMMUNICATIONS CONDUIT

LIGHTING

	GRID-MOUNTED TROFFER LIGHT FIXTURE
	STRIP LIGHT FIXTURE
	SURFACE/RECESSED LIGHT FIXTURE
	WALL-MOUNTED LIGHT FIXTURE
	POLE-MOUNTED LIGHT FIXTURE
	EXIT LIGHT
	BATTERY-OPERATED EMERGENCY LIGHT (WALL MTD)
	BATTERY-OPERATED EMERGENCY LIGHT (CEILING MTD)
	WALL-MOUNTED COMBINATION EXIT LIGHT/BATTERY-OPERATED EMERGENCY LIGHT
	LIGHT SWITCH - SINGLE POLE
	LIGHT SWITCH - 3-WAY
	LIGHT SWITCH - 4-WAY
	LIGHT SWITCH - KEY
	LIGHT SWITCH - DIMMER
	LIGHT SWITCH - PILOT LIGHT
	LIGHT SWITCH - 2 POLE
	LIGHT SWITCH - 3-WAY DIMMER
	WALL-MOUNTED MOTION SWITCH
	CEILING-MOUNTED MOTION SWITCH
	SWITCHBANK - REFER TO DETAILS
	DIMMER BOARD
	REMOTE CONTROL SWITCH AS SCHEDULED
	TIMECLOCK - REFER TO PLANS / DETAILS

EQUIPMENT

	DISCONNECT SWITCH - RE: PLANS FOR INFORMATION.
	MAGNETIC MOTOR STARTER
	COMBINATION DISCONNECT SWITCH / MOTOR STARTER
	TOGGLE-TYPE DISCONNECT, FURNISH WITH THERMAL MOTOR PROTECTION WHERE SERVING FANS/PUMPS.
	SURFACE PANELBOARD
	RECESSED PANELBOARD
	DISTRIBUTION PANELBOARD
	SWITCHBOARD, FEEDER/MAIN CIRCUIT BREAKER SECTION AND DISTRIBUTION SECTION.

GENERAL SYMBOLS

	INDICATES CONNECT TO EXISTING
	INDICATES ELEVATION
	EQUIPMENT TAG - REFER TO CONNECTIONS SCHEDULE FOR ELECTRICAL CONNECTIONS AND LOAD INFO FOR KITCHEN, SHOP, ETC. EQUIPMENT

POWER DEVICES

	DUPLEX RECEPTACLE
	LINE THRU DEVICE INDICATES ABOVE COUNTER
	SPECIAL DUPLEX RECEPTACLE (GFCI, ISOLATED GROUND, ETC.)
	QUADPLEX RECEPTACLE
	SIMPLEX RECEPTACLE W/NECA CONFIG AS NOTED
	MULTI-POLE RECEPTACLE W/NECA CONFIG AS NOTED
	CEILING MOUNTED RECEPTACLE
	RECEPTACLE/DEVICE MOUNTED IN 'TOMBSTONE'
	POKE-THRU WITH POWER
	POKE-THRU WITH TELECOMMUNICATIONS
	POKE-THRU W/POWER AND TELECOM
	FLOOR BOX
	DIVIDED POWER POLE
	CLOCK RECEPTACLE
	PLUG MOLD / WIRE MOLD AS SPECIFIED
	JUNCTION BOX
	PUSH BUTTON
	MOTOR

TELEPHONE/DATA

	TELEPHONE OUTLET (SINGLE-GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)
	LINE THRU DEVICE INDICATES ABOVE COUNTER
	DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CEILING)
	TELEPHONE/DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CEILING)
	PHONE OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.
	DATA OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.
	PHONE/DATA OUTLET WITH NUMBER OF PHONE/DATA JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.
	WALL-MOUNTED WIRELESS INTERNET TRANSMITTER
	CEILING-MOUNTED WIRELESS INTERNET TRANSMITTER

AUDIO/VISUAL

	TELEVISION OUTLET (SINGLE GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)
	REVERSE TELEVISION OUTLET - CABLE TO HEAD END
	RECESSED COMBINATION AV AND POWER OUTLET COORD LOCATION OF DEVICE WITH TV MOUNT
	TEACHER'S DESK CONNECTIONS - RE: DETAILS
	WALL SPEAKER
	CEILING SPEAKER
	CEILING SPEAKER - SUBWOOFER
	CEILING SPEAKER - SOUND SYSTEM
	VOLUME CONTROL
	SOUND SYSTEM AUDIO JACK
	REMOTE MICROPHONE CONTROL

COMMUNICATIONS SYMBOLS

	INTERCOM CALL STATION
	INTERCOM HANDSET
	PUBLIC ADDRESS SYSTEM AMPLIFIER
	INTERCOM MASTER STATION
	WALL SPEAKER - HORN TYPE
	CEILING SPEAKER - HORN TYPE
	ELEVATOR 2-WAY COMMUNICATION MASTER STATION
	ELEVATOR 2-WAY COMMUNICATION POWER SUPPLY

FIRE ALARM

	MANUAL PULL STATION
	CEILING SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	WATERFLOW SWITCH
	TAMPER SWITCH
	WALL-MOUNTED FA STROBE WITH CANELLA RATING, 15cd UNLESS OTHERWISE NOTED ON PLANS.
	CEILING-MOUNTED FA STROBE WITH CANELLA RATING, MINIMUM OF 15cd RATING.
	CEILING-MOUNTED FA SPEAKER
	CEILING-MOUNTED FA HORN/STROBE WITH CANELLA RATING, MINIMUM OF 15cd RATING.
	CEILING-MOUNTED FA SPEAKER/STROBE WITH CANELLA RATING, MINIMUM OF 15cd RATING.
	RETURN GRILLE OR EXHAUST REGISTER
	SUPPLY AIR FLOW INDICATOR
	RETURN AND EXHAUST AIR FLOW INDICATOR
	THERMOSTAT
	TEMPERATURE SENSOR
	HUMIDISTAT
	CONTROL WIRING
	RELAY
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	REMOTE ANNUNCIATOR PANEL
	FIRE ALARM EXTENDER CABINET
	DOOR HOLDER
	SINGLE / MULTI-STATION 120V SMOKE ALARM
	ZONE ADDRESSABLE MODULE
	INDIVIDUAL ADDRESSABLE MODULE
	KITCHEN HOOD FIRE SUPPRESSION SYSTEM PANEL
	KITCHEN HOOD REMOTE PULL STATION
	AREA OF RESCUE ASSISTANCE STATION
	AREA OF RESCUE ASSISTANCE MASTER STATION

NURSE CALL

	NURSE CALL STATION
	NURSE CALL EMERGENCY PULL CORD
	CODE BLUE STATION
	NURSE CALL STAFF STATION
	NURSE CALL DUAL PUSHBUTTON STATION (CODE BLUE / STAFF ASSIST)
	PATIENT MONITOR STATION
	NURSE CALL DUTY STATION
	NURSE CALL DOME LIGHT
	NURSE CALL ZONE LIGHT
	NURSE CALL MASTER STATION
	RESIDENT CALL MASTER STATION
	RESIDENT CALL EMERGENCY PULL CORD

SECURITY

	FIXED CAMERA
	PAN/TILT/ZOOM CAMERA
	PROXIMITY TYPE CARD READER
	SWIPE CARD READER
	ELECTRIC STRIKE
	KEYPAD / MAG LOCK
	BUTTON / MAG LOCK

FIRE SEALING NOTES

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

MECHANICAL AND PLUMBING SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

SHEET METAL

	HIGH EFFICIENCY ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)
	SPW-IN ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)
	CONICAL BELLMOUTH ROUND TAKEOFF
	ROUND DUCT RUNOUT WITH FLEX DUCT
	DUCTWORK ELBOW (WITH & WITHOUT TURNING VANES)
	FD-FIRE DAMPER, FS-FIRE/SMOKE DAMPER, SD-SMOKE DAMPER, BD-BACKDRAFT DAMPER (GRAVITY)
	AUTOMATIC MOTORIZED DAMPER
	SUPPLY DIFFUSER AND DIFFUSER CALLOUT (NOOK SIZE, TYPE AND CFM)
	LINEAR/SLOT DIFFUSER
	RETURN GRILLE OR EXHAUST REGISTER
	SUPPLY AIR FLOW INDICATOR
	RETURN AND EXHAUST AIR FLOW INDICATOR
	THERMOSTAT
	TEMPERATURE SENSOR
	HUMIDISTAT
	CONTROL WIRING

MEDICAL GAS

	MEDICAL VACUUM PIPING
	OXYGEN PIPING
	NITROUS OXIDE PIPING
	MEDICAL COMPRESSED AIR PIPING
	NITROGEN PIPING
	CARBON DIOXIDE PIPING
	VACUUM VENT PIPING
	WASTE ANESTHETIC GAS DISPOSAL PIPING
	MEDICAL GAS VENT PIPING
	MEDICAL GAS OUTLET W/ DESIGNATION (RE: BELOW)
	O OXYGEN
	N NITROGEN
	NO NITROUS OXIDE
	WAGD WASTE ANESTHETIC GAS DISPOSAL
	CO CARBON DIOXIDE
	WV MEDICAL VACUUM
	S SURGICAL AIR
	M MEDICAL SLUICE

GENERAL SYMBOLS

	INDICATES CONNECT TO EXISTING
	INDICATES ELEVATION
	EQUIPMENT TAG - REFER TO CONNECTIONS SCHEDULE FOR MECHANICAL CONNECTIONS AND LOAD INFO FOR KITCHEN, SHOP, ETC. EQUIPMENT

MECHANICAL PIPING

	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	DRAIN (CONDENSATE)
	COMPRESSED AIR
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CHILLED/HOT WATER SUPPLY
	CHILLED/HOT WATER RETURN
	HOT WATER SUPPLY
	HOT WATER RETURN
	COOLING TOWER SUPPLY
	COOLING TOWER RETURN
	STEAM (ANY P'S DENOTE PRESSURE)
	CONDENSATE RETURN (P'S DENOTE PRESSURE)
	REFRIGERANT VENT
	RUPTURE DISK

PLUMBING PIPING

	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	RECIRCULATING DOMESTIC HOT WATER
	WASTE ABOVE GRADE OR FLOOR
	WASTE BELOW GRADE OR FLOOR
	STORM ABOVE GRADE OR FLOOR
	STORM BELOW GRADE OR FLOOR
	STORM OVERFLOW ABOVE GRADE OR FLOOR
	STORM OVERFLOW BELOW GRADE OR FLOOR
	PLUMBING VENT
	WATER SERVICE
	G (NATURAL)
	FD FROM SUMP PUMP DISCHARGE
	CA COMPRESSED AIR
	PROPANE
	SCW SOFT DOMESTIC COLD WATER
	SHW SOFT DOMESTIC HOT WATER
	SOW SOFT RECIRCULATING HOT WATER
	ACD ACID WASTE
	VACD ACID WASTE VENT
	NFI NON-FERROUS
	DW DEIONIZED WATER
	RO REVERSE OSMOSIS WATER

PLUMBING RISER CALLOUT (REFERS TO RISER DIAGRAM)

	W&V
	XX

FIRE SPRINKLER

	FIRE PROTECTION PIPING
	SPRINKLER HEAD
	SIDE WALL SPRINKLER HEAD
	FIRE PROTECTION SPRINKLER CONNECTION
	POST INDICATOR VALVE

PIPING SYMBOLS

	SHUTOFF VALVE
	SHUTOFF VALVE IN RISER
	BALANCING VALVE
	PLUG VALVE
	AUTO FLOW CONTROL VALVE
	PIPING ELBOW UP
	PIPING ELBOW DOWN
	PIPING TEE
	PIPING TEE UP
	PIPING TEE DOWN
	REDUCER / EXPANDER
	UNION
	CAP
	PIPE FLEX
	STRAINER
	CHECK VALVE
	INLINE STRAINER
	TEST PLUG
	GUIDE
	ANCHOR
	TRIPLE VALVE
	AUTOMATIC 2-WAY CONTROL VALVE
	AUTOMATIC 3-WAY CONTROL VALVE
	SOLENOID VALVE

PIPING SPECIALTIES

	PRESS/TEMP GAUGE WITH COCK
	THERMOMETER
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	WATER HAMMER ARRESTER

PLUMBING FIXTURES/EQUIPMENT

	HOSE BIBB
	WALL HYDRANT
	CLEAN OUT
	REDUCED PRESSURE BACKFLOW PREVENTER
	DOUBLE CHECK BACKFLOW PREVENTER
	PLUMBING FIXTURE AND CALLOUT
	FD: FLOOR DRAIN, AD: AREA DRAIN, FS: FLOOR SINK
	RD: ROOF DRAIN
	OD: OVERFLOW ROOF DRAIN

GENERAL NOTES

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

GEN. RENOVATION NOTES

- DISCONNECT AND REMOVE ANY EQUIPMENT, PIPING OR DUCTWORK THAT WAS INSTALLED AS PART OF THE BUILDING SLAB THAT IS NOT NEEDED OR CONFLICTS WITH THIS BUILD OUT.
- EXISTING UNDERGROUND PIPING LOCATIONS ARE ESTIMATED BASED UPON ANTICIPATED ROUTINGS. FIELD VERIFY EXACT LOCATIONS DURING CONSTRUCTION AND PROVIDE ALL NECESSARY MODIFICATIONS.
- SAW-CUT GRADE FLOOR SLABS TO INSTALL NEW PIPING, MECHANICAL SYSTEMS, ELECTRICAL FLOOR BOXES AND ALL ASSOCIATED CONDUIT, ETC. PATCH FLOOR TO MAKE LIKE NEW AFTER INSTALLATION. TAKE CARE TO LOCATE EXISTING CONDUIT, ETC. AND AVOID CUTTING EXISTING CONDUITS BY NOT OVER-CUTTING SLAB DEPTH.
- SAW-CUT AND CORE DRILL OPENINGS AS REQUIRED FOR ABOVE GRADE

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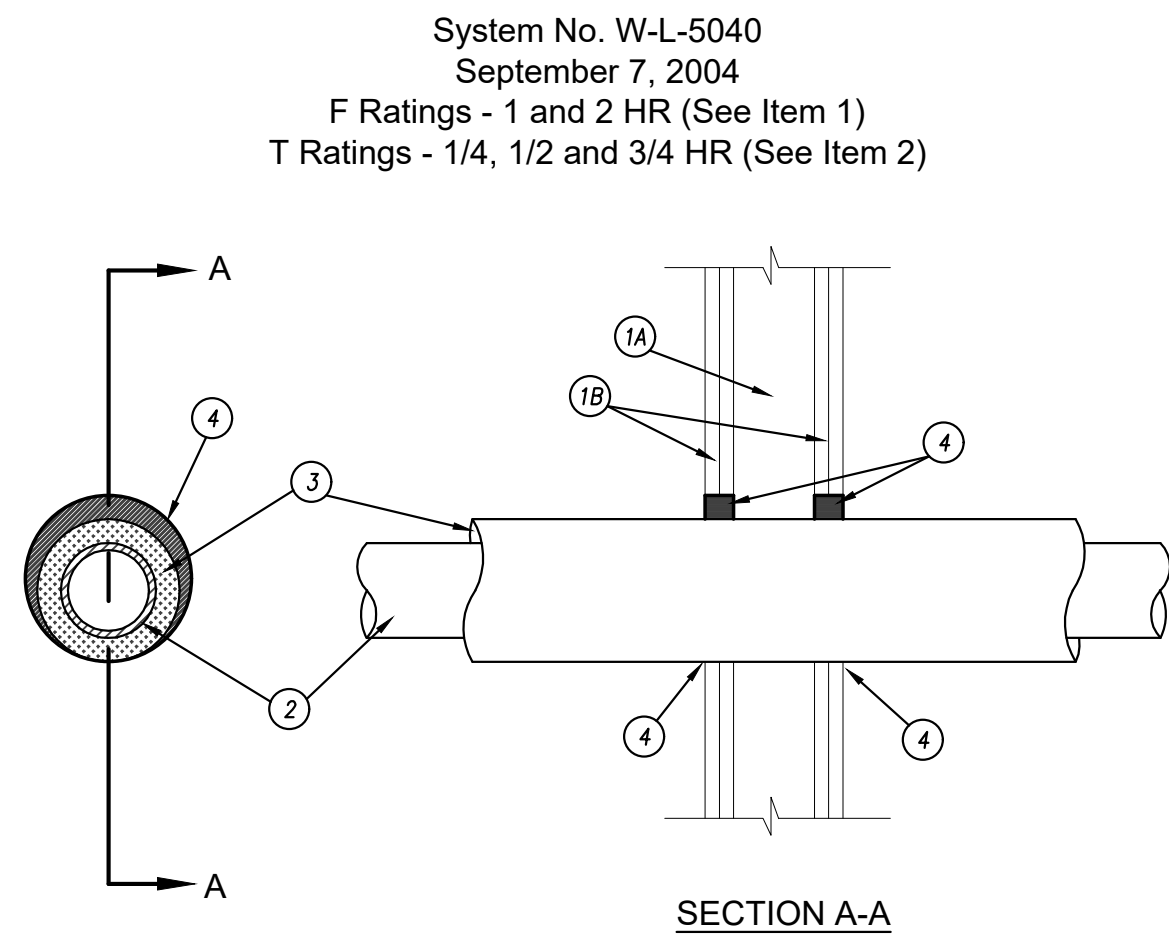
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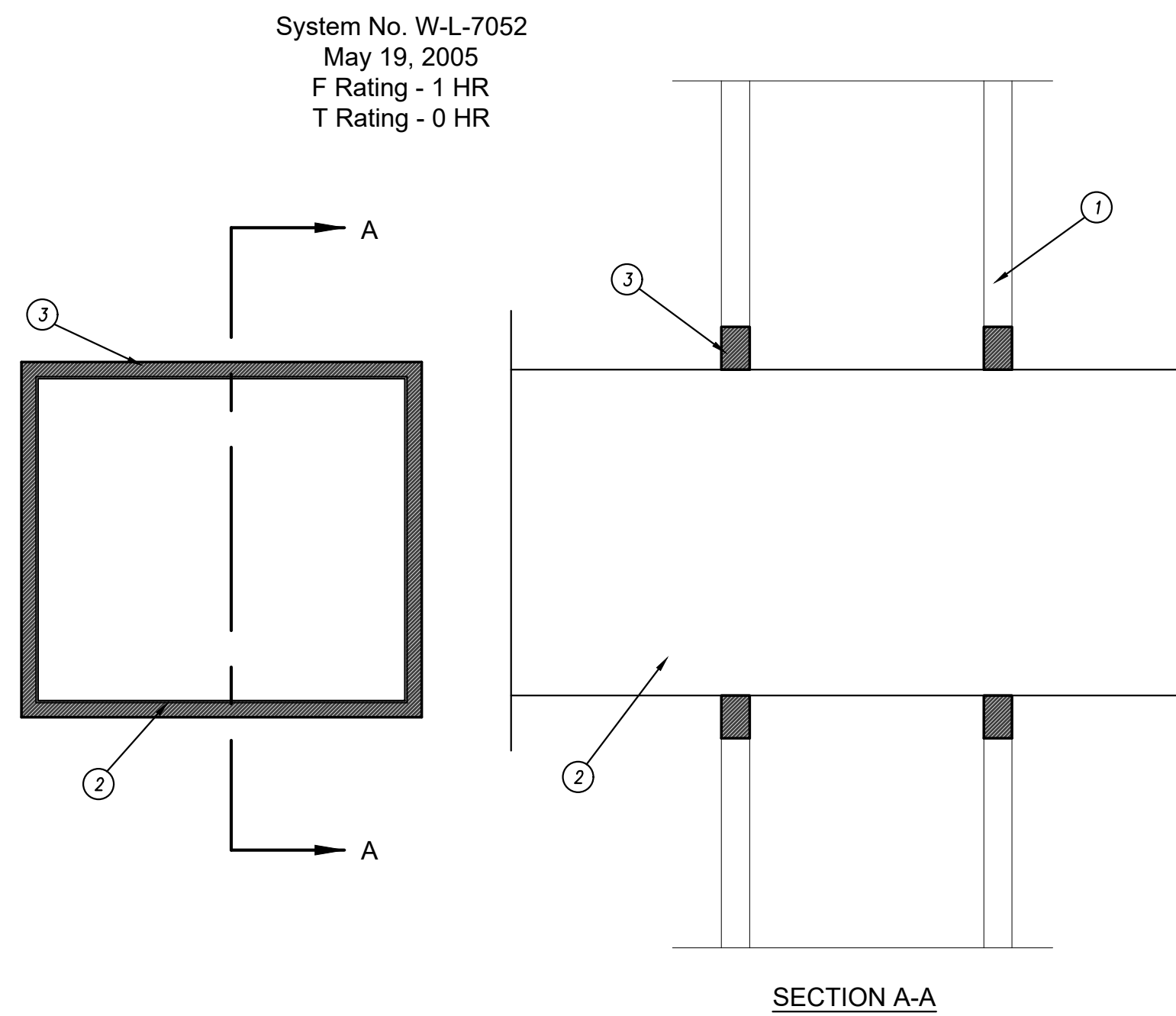
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THROUGH PENETRATION DETAILS



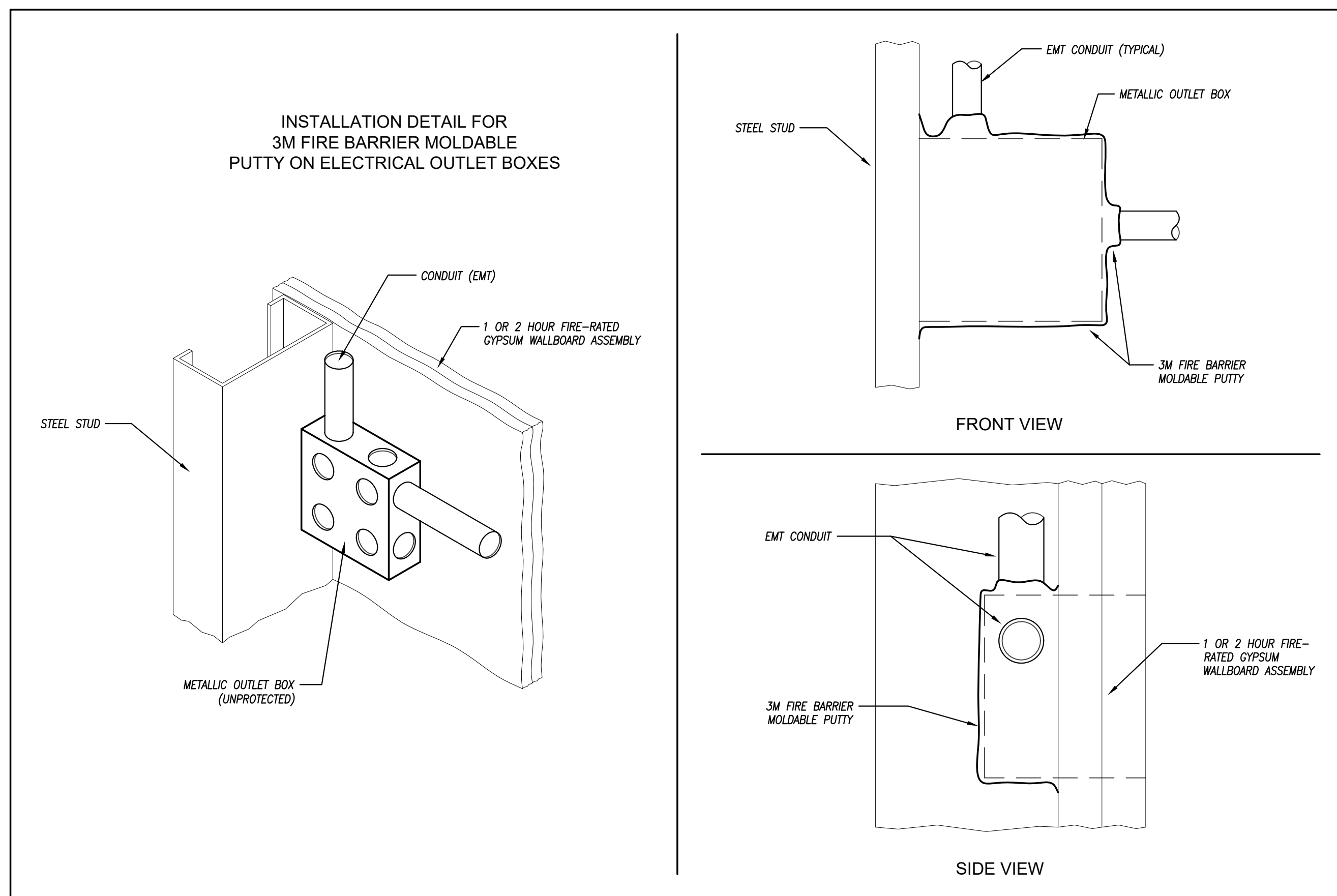
1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE AND SPACED MAX 24 IN. OC.
- B. GYPSUM BOARD* - NOM 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIM OF OPENING IN WALLBOARD LAYERS IS 7 IN. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS 1 HR WHEN INSTALLED IN A 1 HR FIRE RATED WALL AND 2 HR WHEN INSTALLED IN A 2 HR FIRE RATED WALL.
2. THROUGH PENETRANTS - ONE METALLIC PIPE OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
- A. STEEL PIPE - NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE. WHEN STEEL PIPE IS USED, T RATING IS 3/4 HR.
- B. COPPER TUBING - NOM 4 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. T RATING IS 3/4 HR FOR COPPER TUBING OF NOM 2 IN. DIAM AND SMALLER. FOR COPPER TUBING GREATER THAN NOM 2 IN. DIAM, T RATING IS 1/4 AND 1/2 HR WHEN INSTALLED IN 1 AND 2 HR RATED WALLS, RESPECTIVELY.
- C. COPPER PIPE - NOM 4 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. T RATING IS 3/4 HR FOR COPPER PIPE OF NOM 2 IN. DIAM AND SMALLER. FOR COPPER PIPE GREATER THAN NOM 2 IN. DIAM, T RATING IS 1/4 AND 1/2 HR WHEN INSTALLED IN 1 AND 2 HR RATED WALLS, RESPECTIVELY.
3. PIPE INSULATION - PLASTICS* - NOM 3/4 IN. THICK ACRYLONITRILE BUTADIENE/POLYVINYL CHLORIDE (AB/PVC) FLEXIBLE FOAM FURNISHED IN THE FORM OF TUBING. THE ANNULAR SPACE BETWEEN THE INSULATED PIPE AND THE EDGE OF THE THROUGH OPENING SHALL BE MIN ZERO IN. (POINT CONTACT) TO MAX 1-1/4 IN. SEE PLASTICS (04F22) CATEGORY IN THE RECOGNIZED COMPONENT DIRECTORY FOR NAMES OF MANUFACTURERS. ANY RECOGNIZED COMPONENT TUBE INSULATION MATERIAL MEETING THE ABOVE SPECIFICATIONS AND HAVING A UL94 FLAMMABILITY CLASSIFICATION OF 94-SHA MAY BE USED.
4. FILL VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - MIN 5/8 IN. THICKNESS OF CAULK APPLIED WITHIN THE ANNULAR SPACE, FLUSH WITH EACH SURFACE OF WALL. A MIN 1/2 IN. DIAM BEAD OF CAULK SHALL BE APPLIED TO THE PIPE INSULATION/ WALLBOARD INTERFACE AT THE POINT CONTACT LOCATION ON BOTH SIDES OF WALL.
- 5M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT

*BEARING THE UL CLASSIFICATION MARKING

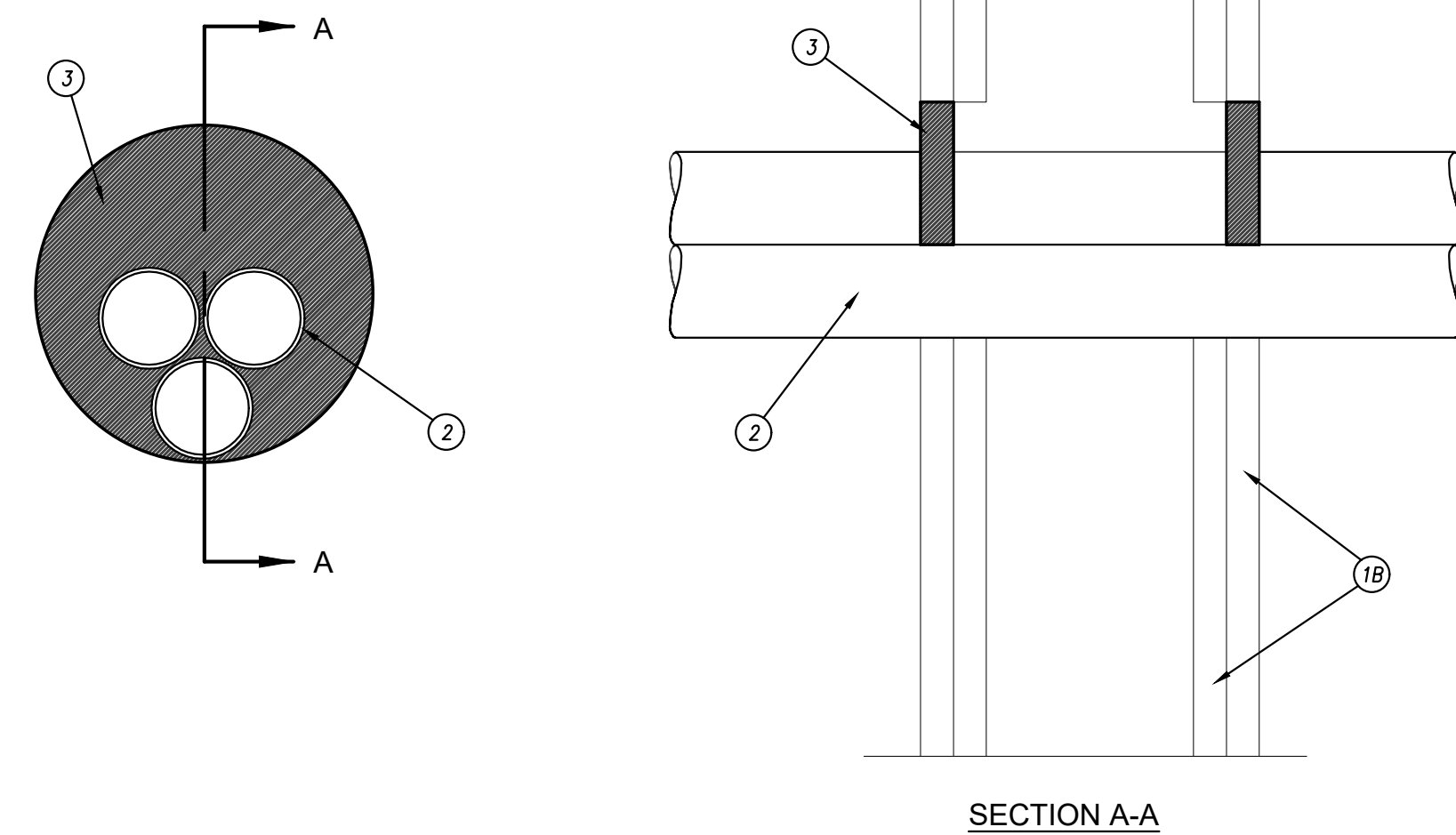


1. WALL ASSEMBLY - THE 1 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 MM BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
- B. GYPSUM BOARD* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX SIZE OF OPENING IS 14 BY 14 IN. (356 MM BY 356 MM) SQUARE.
2. STEEL DUCT - NOM 12 BY 12 IN. (305 MM BY 305 MM) (OR SMALLER) NO. 24 GAUGE (OR HEAVIER) GALV STEEL DUCT TO BE CENTERED WITHIN OPENING WITH A NOM ANNULAR SPACE OF 1 IN. (25 MM). DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF OPENING.
3. FILL VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN 5/8 IN. (16 MM) THICKNESS OF CAULK APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL ASSEMBLY.
- 5M COMPANY - CP 25WB+ IC 15WB+ CAULK OR FB-3000 WT SEALANT

*BEARING THE UL CLASSIFICATION MARK

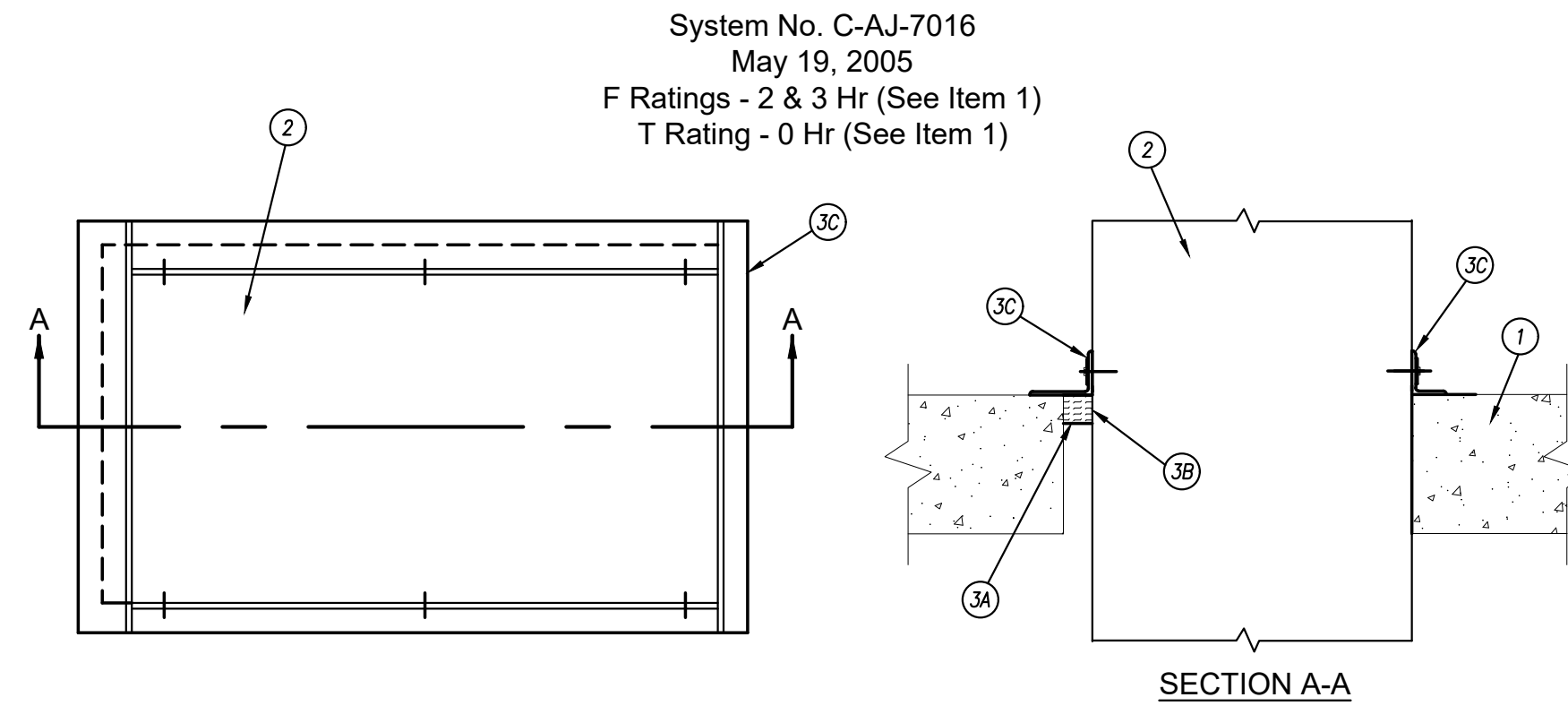


System No. W-L-2300
May 19, 2005
F Ratings - 1 & 2 Hr (See Item 1)
T Ratings - 0 & 1/2 Hr (See Item 1)



1. FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAX AREA OF OPENING IS 144 SQ IN. WITH A MAX DIMENSION OF 18 IN. SEE CONCRETE BLOCKS (CA2T) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. THROUGH PENETRANTS - METALLIC PIPES, TUBING OR CABLE TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PENETRANTS TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF PENETRANTS MAY BE USED:
- A. METALLIC PIPES - MAX FIVE METALLIC PIPES OR TUBING. THE ANNULAR SPACE BETWEEN UNINSULATED PENETRANT AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 2-3/4 IN. IN THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
- A1. COPPER TUBING - NOM 3 IN. DIAM (OR SMALLER) TYPE M (OR HEAVIER) COPPER TUBE.
- A2. COPPER PIPE - NOM 3 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- B. TUBE INSULATION - PLASTICS* - NOM 1 IN. THICK ACRYLONITRILE BUTADIENE/POLYVINYL CHLORIDE (AB/PVC) FLEXIBLE FOAM FURNISHED IN THE FORM OF TUBING. THE TUBE INSULATION SHALL BE INSTALLED ON ALL TUBING GREATER THAN NOM 2 IN. DIAM. THE ANNULAR SPACE BETWEEN THE INSULATED PENETRATING ITEM AND UNINSULATED METALLIC PIPES, CONDUIT OR TUBING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1-1/4 IN. THE ANNULAR SPACE BETWEEN THE INSULATED PENETRATING ITEM AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 2-3/4 IN. SEE PLASTICS (04F22) CATEGORY IN THE RECOGNIZED COMPONENT DIRECTORY FOR NAMES OF MANUFACTURERS. ANY RECOGNIZED COMPONENT TUBE INSULATION MATERIAL MEETING THE ABOVE SPECIFICATIONS AND HAVING A UL 94 FLAMMABILITY CLASSIFICATION OF 94-SHA MAY BE USED.
- C. CABLES - MAX ONE 2/C NO. 18 AWG (OR SMALLER) THERMOSTAT WIRE SPACED MIN 0 IN. (POINT CONTACT) FROM TUBE INSULATION OR MIN 1/2 IN. FROM OTHER PENETRANTS. THE ANNULAR SPACE BETWEEN CABLE AND PERIPHERY OF OPENING IS MIN 0 IN. (POINT CONTACT) TO MAX 2-3/4 IN. CABLE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
3. FIRESTOP SYSTEM - THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
- A. FILL/VOID OR CAVITY MATERIALS* - WRAP STRIP - NOM 1/8 IN. THICK INTUMESCENT MATERIAL SUPPLIED IN 2 IN. WIDE STRIPS. MIN ONE LAYER OF WRAP STRIP WRAPPED AROUND PENETRANTS AND PIPE INSULATION AND SECURED IN PLACE WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND RECESSED WITHIN THE OPENING NOT MORE THAN 2 IN. ABOVE THE BOTTOM OF THE FLOOR. WRAP STRIP REQUIRED AROUND INSULATED PENETRANTS WHICH MAY BE TIGHTLY BUNDLED TOGETHER. WRAP STRIP ALSO REQUIRED TO BE INSTALLED AROUND INSULATED PENETRANTS WHEN INSTALLED LESS THAN 1/2 IN. FROM UNINSULATED TUBES OR CABLES. IN SUCH CASES WHERE INSULATED PENETRANT IS AT POINT CONTACT WITH UNINSULATED TUBES OR CABLES, WRAP STRIP TO BE RECESSED BETWEEN INSULATION AND UNINSULATED TUBE OR CABLE BY COMPRESSING INSULATION. WRAP STRIP NOT REQUIRED AROUND INSULATED TUBES INSTALLED 1/2 IN. OR GREATER FROM OTHER PENETRANTS.
- 5M COMPANY - ULTRA GS
- B. PACKING MATERIAL - MIN 3 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
- C. FILL/VOID OR CAVITY MATERIALS* - CAULK, SEALANT OR PUTTY - MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR. MIN 1/2 IN. DIAM BEAD OF FILL MATERIAL APPLIED TO THE PENETRANT/CONCRETE INTERFACE AT THE POINT CONTACT LOCATION ON THE TOP SURFACE OF FLOOR.
- 5M COMPANY - MP+ STD PUTTY, CP 25WB+ CAULK OR FB-3000 WT SEALANT.

*BEARING THE UL CLASSIFICATION MARKING
*BEARING THE UL RECOGNIZED COMPONENT MARKING

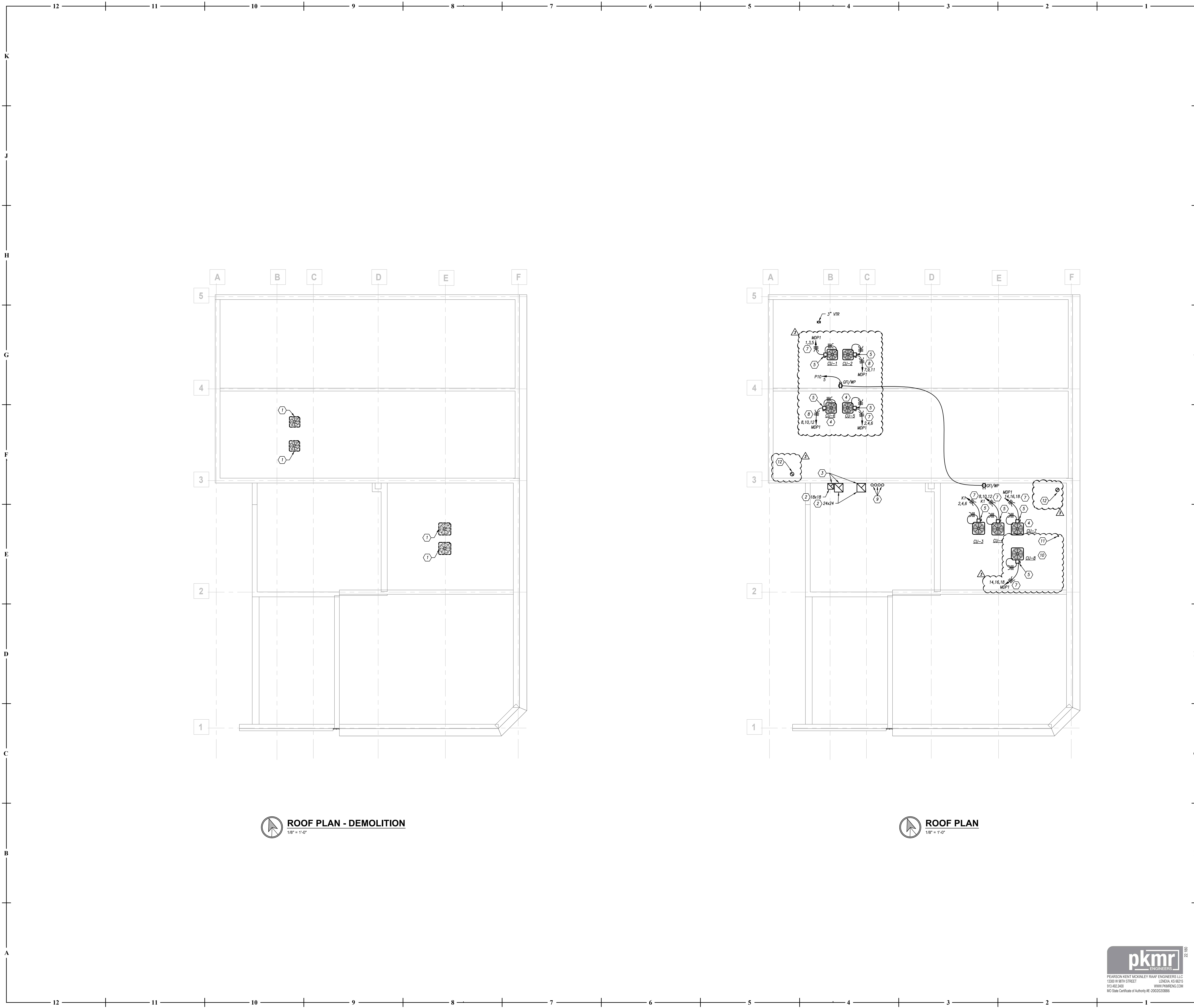


1. FLOOR OR WALL ASSEMBLY - MIN 2-1/2 IN. (64 MM) THICK OR MIN 4-1/2 IN. (114 MM) THICK LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS.
- THE F RATING IS 2 HR AND 3 HR FOR MIN 2-1/2 IN. (64 MM) OR MIN 4-1/2 IN. (114 MM) THICK ASSEMBLIES.
- MAX AREA OF OPENING IS 576 SQ IN. (3716 C/M2) WITH MAX DIMENSION OF 36 IN. (914 MM) FOR 2 HR ASSEMBLIES AND 544 SQ IN. (3510 C/M2) WITH MAX DIMENSION OF 34 IN. (864 MM) FOR 3 HR ASSEMBLIES.
- SEE CONCRETE BLOCKS (CA2T) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. THROUGH PENETRANTS - ONE STEEL DUCT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. AN ANNULAR SPACE OF MIN 0 IN. (POINT CONTACT) TO MAX 4 IN. (10 MM TO MAX 102 MM) IS REQUIRED WITHIN THE FIRESTOP SYSTEM FOR 2 HR ASSEMBLIES AND MIN 0 IN. (POINT CONTACT) TO MAX 2 IN. IS REQUIRED WITHIN THE FIRESTOP SYSTEM FOR 3 HR ASSEMBLIES. STEEL DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING SIZES OF STEEL DUCTS MAY BE USED:
- A. STEEL DUCT - NOM 32 IN. BY 14 IN. (813 MM BY 356 MM) (OR SMALLER) NO. 22 GAUGE (OR HEAVIER) GALV STEEL DUCT.
- B. STEEL DUCT - NOM 30 IN. BY 12 IN. (762 MM BY 305 MM) (OR SMALLER) NO. 24 GAUGE (OR HEAVIER) GALV STEEL DUCT.
3. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
- A. PACKING MATERIAL - NOM 1 IN. (25 MM) THICKNESS OF TIGHTLY PACKED MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL.
- B. FILL/VOID OR CAVITY MATERIAL* - CAULK OR SEALANT - MIN 1 IN. (25 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL ASSEMBLY. AT THE POINT CONTACT LOCATION BETWEEN DUCT AND CONCRETE, A MIN 1/4 IN. (6 MM) DIAM BEAD OF SEALANT SHALL BE APPLIED TO THE CONCRETE/DUCT INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL ASSEMBLY.
- 5M COMPANY - CP 25WB+ IC 15WB+ CAULK OR FB-3000 WT SEALANT.
- C. RETAINING ANGLES - MIN 16 GAUGE GALV STEEL ANGLES SIZED TO LAP DUCT A MIN OF 2 IN. (51 MM) IN. AND LAP TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL A MIN OF 1 IN. (25 MM). ANGLES ATTACHED TO DUCT WITH MIN 1/2 IN. (13 MM) LONG, NO. 10 (OR LARGER) SHEET METAL SCREWS SPACED A MAX OF 1 IN. (25 MM) FROM EACH END OF DUCT AND SPACED A MAX OF 6 IN. (152 MM) OC.

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MO State Certificate of Authority #E-0000020886



GENERAL ROOF PLAN

NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. MAINTAIN CODE-REQUIRED DISTANCES FOR ALL VENTS, EXHAUSTS, ETC. FROM MECHANICAL EQUIPMENT OUTSIDE AIR INTAKES.
3. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE MOUNTED A MINIMUM OF 36" ABOVE THE ROOF ON SUITABLE STEEL SUPPORTS UNLESS OTHERWISE NOTED.

ROOF PLAN KEYED NOTES

- 1 CONTRACTOR TO FIELD VERIFY LOCATION AND REMOVE EXISTING CONDENSING UNITS. REUSE EXISTING LOCATIONS. REFRIGERANT PIPE PENETRATIONS AND ACCESSORIES OF CONDENSING UNITS SERVING SECOND FLOOR. REFER TO NEW WORK PLAN.
- 2 DISHWASHER, GREASE AND MAKE-UP AIR DUCT FROM/ TO FIRST FLOOR TO/ FROM 2ND FLOOR ROOF.
- 3 CAP DUCTWORK ON ROOF FOR FUTURE USE.
- 4 CONDENSING UNIT SERVING 2ND FLOOR TO BE INSTALLED IN EXISTING LOCATION.
- 5 60AMP, 3-POLE, NON-FUSED HEAVY-DUTY DISCONNECT SWITCH IN NEMA 3R ENCLOSURE.
- 6 30AMP, 3-POLE, NON-FUSED HEAVY DUTY DISCONNECT SWITCH IN NEMA 3R ENCLOSURE.
- 7 (3) #6 WIRE AND (1) #10 GROUND IN 3/4" CONDUIT.
- 8 (3) #8 WIRE AND (1) #10 GROUND IN 3/4" CONDUIT.
- 9 CONDUIT PENETRATIONS FOR FUTURE MECHANICAL EQUIPMENT. REFER TO SHEET E111 FOR ADDITIONAL INFORMATION.
- 10 NEW CONDENSING UNIT SHALL BE INSTALLED ON A NEW EQUIPMENT CURB ON ROOF SUPPORT.
- 11 NEW CONCENTRIC VENT THROUGH ROOF. VENT TERMINATION SHALL NOT BE WITHIN 10' OF FRESH AIR INTAKE.
- 12 FRESH AIR INTAKE VENT.

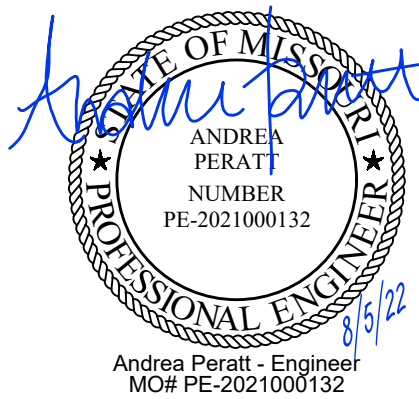
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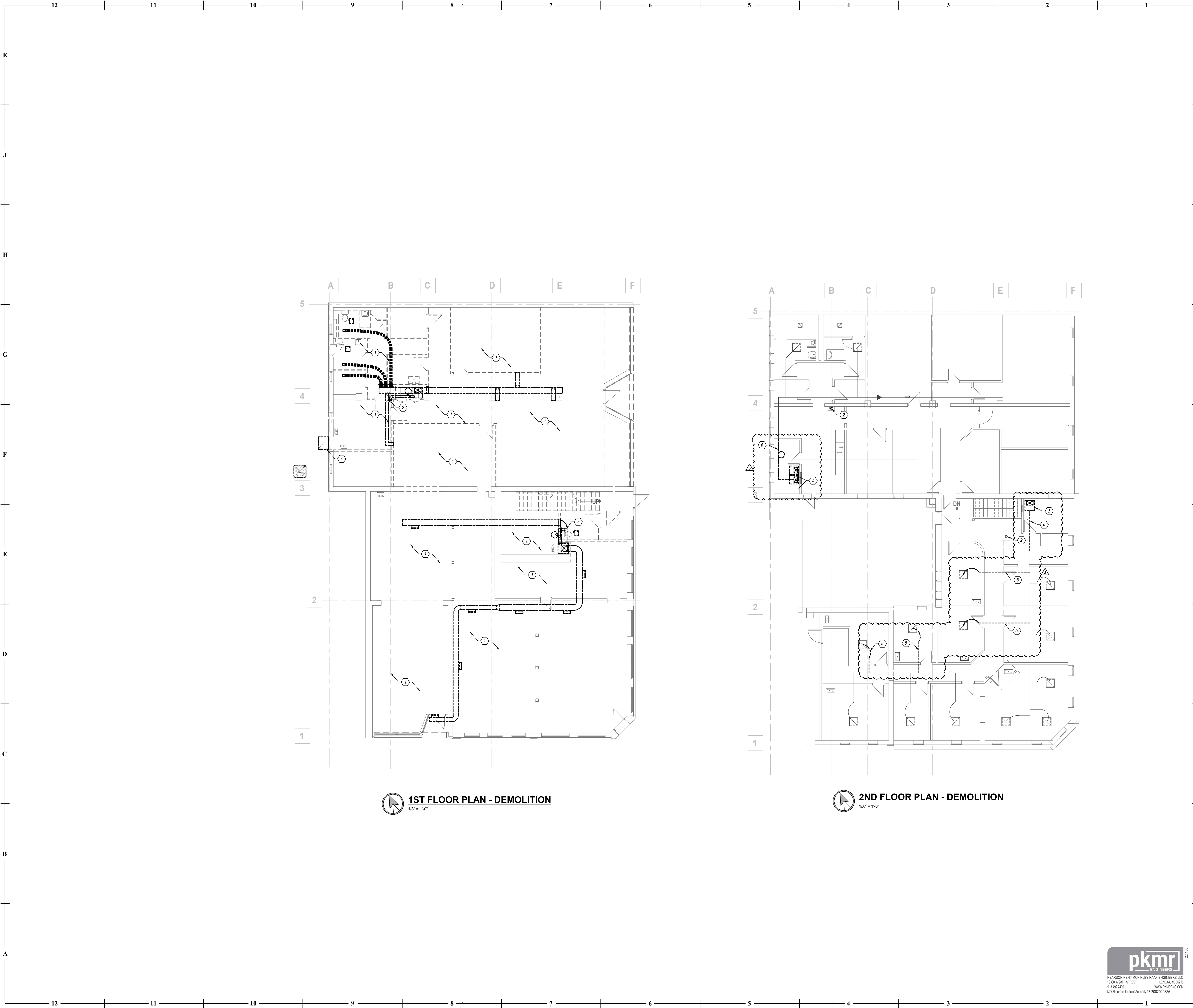
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ROOF PLAN





GENERAL DEMOLITION NOTES

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

DEMOLITION PLAN KEYED NOTES

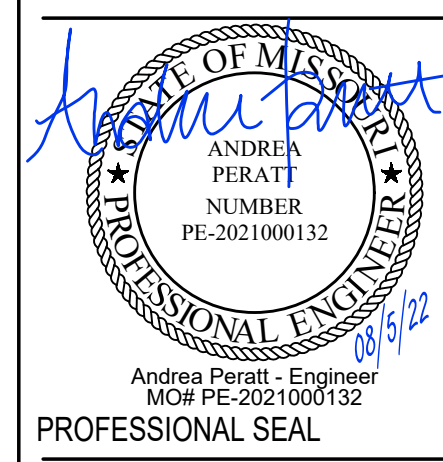
- 1. REMOVE ALL DUCTWORK, DIFFUSERS AND EQUIPMENT IN THIS AREA. PATCH/REPAIR WALL/CEILING IF REQUIRED. REFER TO NEW WORK PLAN.
- 2. REMOVE VERTICAL FLUE DUCT GOING THROUGH SECOND FLOOR TO ROOF. REFER TO NEW WORK PLAN.
- 3. REMOVE EXISTING FURNACE. KEEP ALL DUCTWORK, FLUE AND ACCESSORIES. CLEAN RETURN PLENUM, GRILLE AND PROVIDE NEW FILTERS. PREPARE DUCTWORK FOR NEW FURNACE INSTALLATION. REFER TO NEW WORK PLAN.
- 4. REMOVE EXISTING WEATHER HOOD AND INTAKE OPENING. PATCH AND REPAIR OPENING WITH CONSTRUCTION MATERIALS TO MATCH EXISTING CONDITIONS. REFER TO ARCHITECT.
- 5. REMOVE EXISTING DUCTWORK AND CAP BACK AT MAIN.
- 6. REMOVE SUPPLY DUCT AND CONNECTION AT FURNACE TO PREPARE FOR A NEW SUPPLY CONNECTION.

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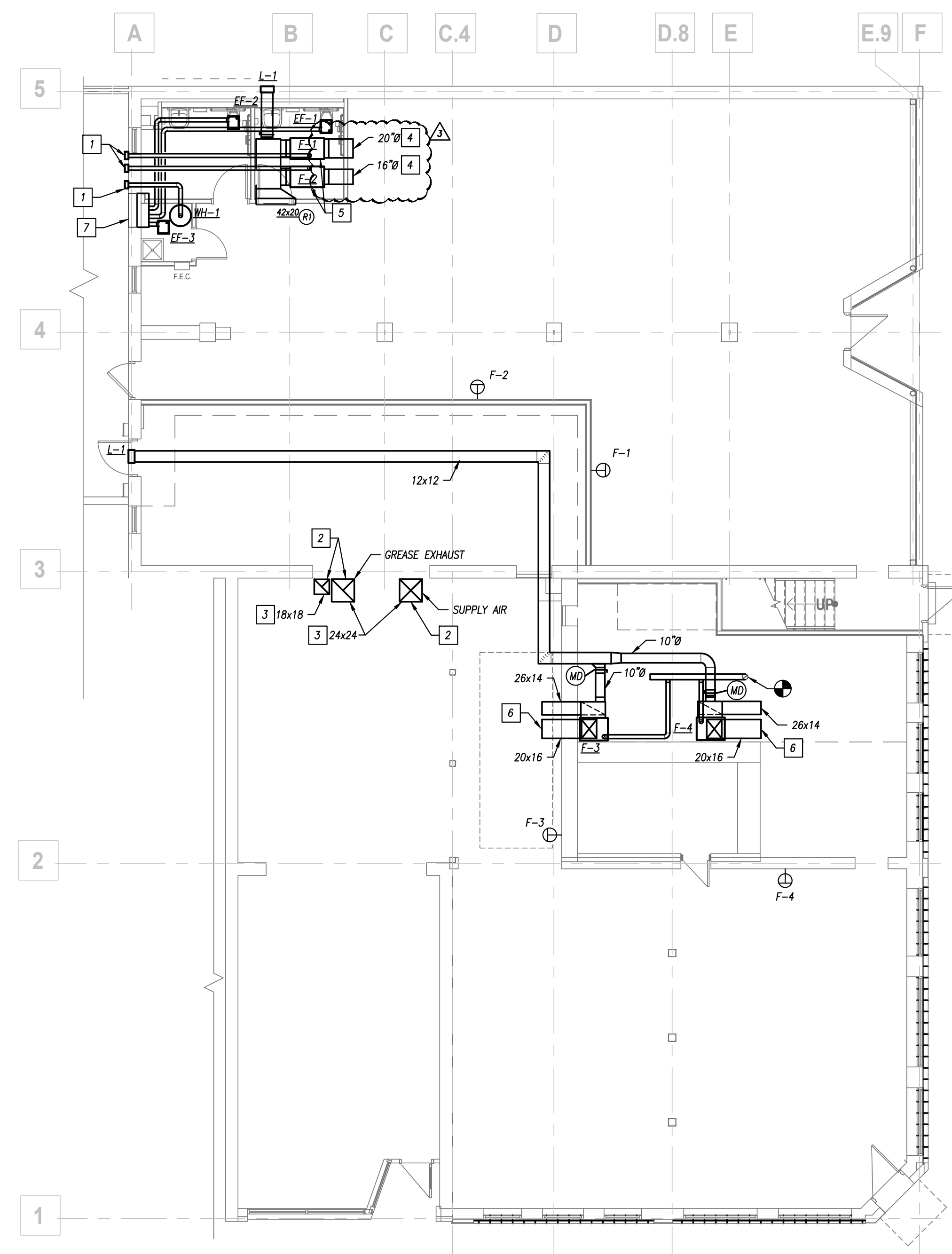
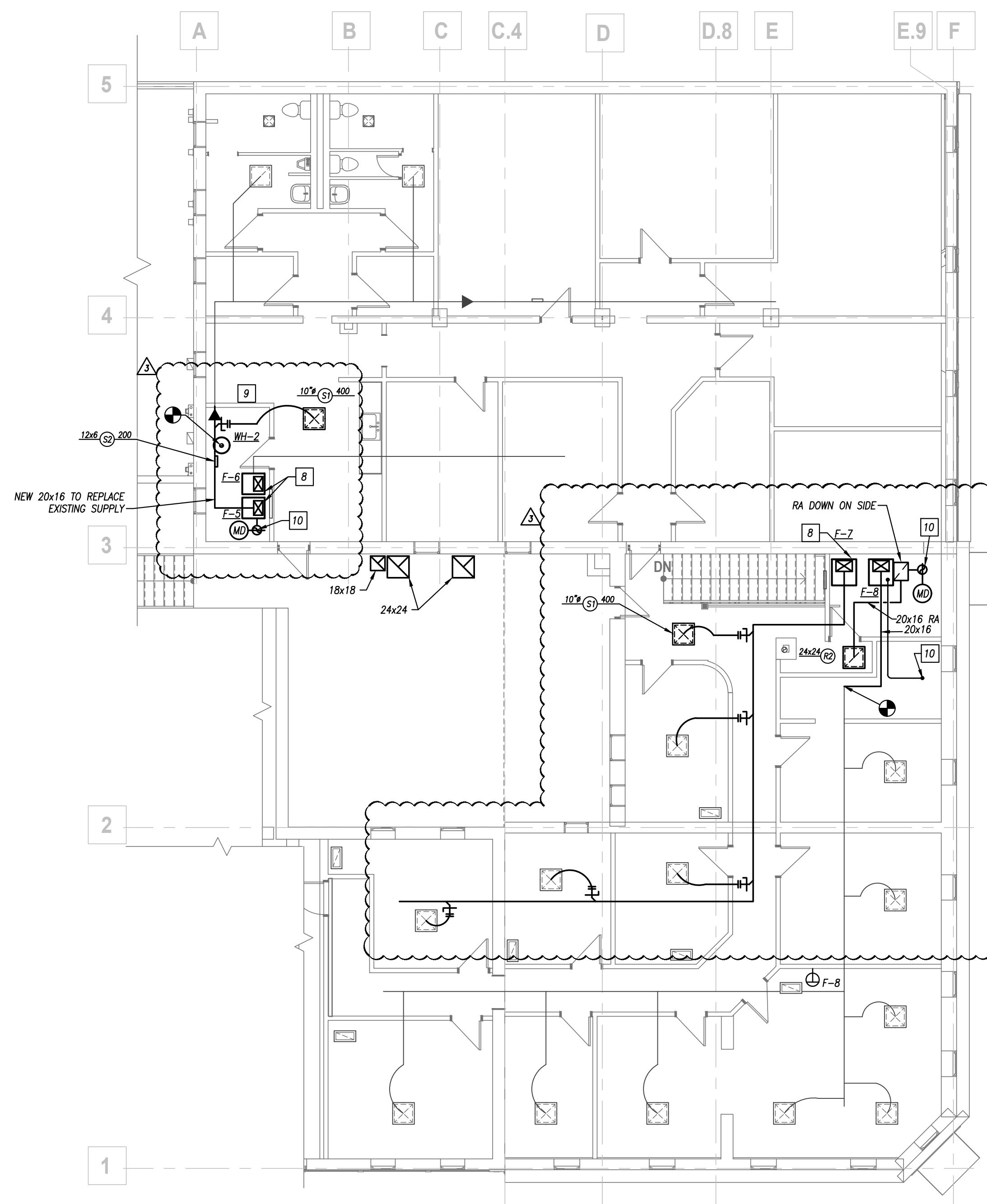
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DEMOLITION - FLOOR PLANS



Permit Set



GENERAL HVAC NOTES

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

HVAC PLAN KEYED

NOTES

- 1 TERMINATE 4" FLUE/VENT WITH PRINTABLE WALL CAP. REFER TO DETAIL.
- 2 DISMASHWER, GREASE AND MAKE-UP AIR DUCT CAPPED IN SPACE FOR FUTURE USE.
- 3 DISMASHWER AND GREASE DUCT FROM FIRST FLOOR TO SECOND FLOOR DUCT TO BE ROUTED ON EXTERIOR WALL AND CAPPED OVER 2ND FLOOR ROOF. REFER TO ROOF PLAN.
- 4 CAP SPIRAL DUCTWORK IN SPACE. ROUTE DUCTWORK ROOF TO STRUCTURE.
- 5 FURNACES TO BE INSTALLED ABOVE TOILET. REFER TO DETAIL FOR INSTALLATION.
- 6 SUPPLY AND RETURN AIR DUCTWORK ROUTED THROUGH STRUCTURAL WALL BOTTOM OF DUCT TO BE ROUTED AT 10'-0" R.F.F. EXCEPT PENETRATIONS WITH STRAPS.
- 7 REMOVE GENERAL EXHAUST TO PLUMBING ON BACKSIDE OF EXISTING LOWER PLENUM TO MATCH EXISTING SIZE OF LOWER. REFER TO DETAIL.
- 8 REPLACE EXISTING FURNACES. CONNECT TO EXISTING DUCTWORK, FLUES, ELECTRICAL AND CONDENSATE.
- 9 REPLACE EXISTING WATER HEATER TO CONNECT INTO EXISTING FLUES.
- 10 1" OUTDOOR AIR DUCT UP TO ROOF INTAKE. PROVIDE MOTORIZED AND BALCKING DAMPER IN RISER. INTAKE ON ROOF SHALL BE COOP PR-12 OR EQUIVALENT.
- 11 TERMINATE FLUE AND INTAKE UP TO CONCENTRIC VENT. TERMINATION SHALL NOT BE WITHIN 10' OF FRESH AIR INTAKE.



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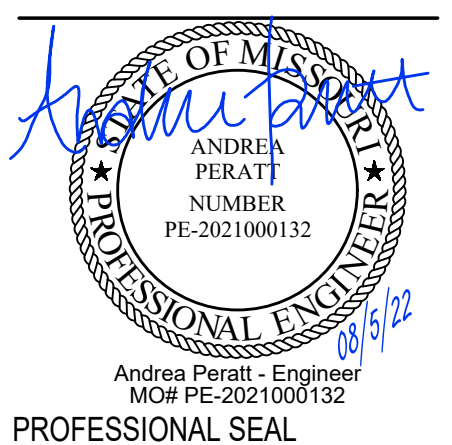
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REVISION DATES:

	City Comments	05/17/22
	ASI-01	08/05/22



M111

ISSUE DATE: APRIL 21, 2022
COLLINS WEBB #: 21121

MECHANICAL - FLOOR PLANS

EXHAUST FAN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	TYPE	SERVICE	CFM	E.S.P. (IN)	BHP	FAN DATA	DRIVE	SONES	RPM	ELECTRICAL	CONTROL	REMARKS
EF-1	COOK	GC-146	CEILING CABINET	BATHROOM	90	0.250	----	3W	DIRECT	1.3	900	120V / 1PH	SWITCH	ALL
EF-2	COOK	GC-146	CEILING CABINET	BATHROOM	90	0.250	----	3W	DIRECT	1.3	900	120V / 1PH	SWITCH	ALL
EF-3	COOK	GC-146	CEILING CABINET	BATHROOM	90	0.250	----	3W	DIRECT	1.3	900	120V / 1PH	SWITCH	ALL

REMARKS:
1. UNIT SHALL BE PROVIDED WITH SOLID STATE SPEED CONTROL MOUNTED AT FAN.
2. PROVIDE WITH STARTER AND WIRE TO START SWITCH.

HVAC PIPING MATERIAL SCHEDULE

SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION
CONDENSATE DRAIN INTERIOR	3/4" - 2"	SCH. 40	CPVC	SOLVENT JOINED	10 FT - 1/2HR	YES	FIBERGLASS W/ ASJ 1/2" (PLENUM ONLY)
CONDENSATE DRAIN INTERIOR	1/2" - 2"	L	COPPER	SOLDER, PRO-PRESS	10 FT - 1/2HR	YES	FIBERGLASS W/ ASJ 1/2" (PLENUM ONLY)
REFRIGERANT LINES	1/2" - 2"	ACR	COPPER	BRAZED		YES	ELASTOMERIC 3/4"

NOTES:
1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2. ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2007 REQUIREMENTS AT A MINIMUM.
3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.

FURNACE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	CFM	O.A. CFM	FAN DATA			HEATING			ELECTRICAL			REMARKS
					E.S.P. (IN)	HP	CAPACITY (MBH)	INPUT (MBH)	OUTPUT (MBH)	EFF.	VOLTS / PH	M.C.A.	M.O.C.P.	
F-1	LENNOX	SL297UH090608	1,900	210	0.5"	1	60.0	100.0	96.0	96.0%	120V / 1PH	14.0	20	2
F-2	LENNOX	SL297UH090488	1,400	210	0.5"	1	45.0	110.0	104.7	104.7%	120V / 1PH	12.0	20	2
F-3	LENNOX	SL280UH159W00	1,990	299	0.5"	1	60.0	165.0	132.0	80.0%	120V / 1PH	12.0	20	1
F-4	LENNOX	SL280UH159W00	1,990	299	0.5"	1	60.0	165.0	132.0	80.0%	120V / 1PH	12.0	20	1
F-5	LENNOX	SL280UH090488	1,400	180	0.5"	1/2	45.0	110.0	88.0	80.0%	120V / 1PH	12	15	1
F-6	LENNOX	SL280UH090488	1,400	180	0.5"	1	60.0	110.0	88.0	80.0%	120V / 1PH	12	15	1
F-7	LENNOX	SL280UH159W00	1,990	299	0.5"	1	60.0	165.0	132.0	80.0%	120V / 1PH	12	20	1
F-8	LENNOX	SL297UH090608	1,900	210	0.5"	1	60.0	100.0	96.0	96.0%	120V / 1PH	14.0	20	2

REMARKS:
1. STANDARD EFFICIENCY FURNACE.
2. HIGH EFFICIENCY FURNACE, PROVIDE WITH MANUFACTURERS VERTICAL DISCHARGE KIT, REFER TO DETAIL.

CONDENSING UNIT SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	CAPACITY (MBH)	MINIMUM SEER	AMBIENT TEMP. (°F)	ELECTRICAL	REMARKS
CU-1	LENNOX	16ACX-060-230	60.0	15.5	105°	208V / 3PH 36.0 50	ALL
CU-2	LENNOX	16ACX-048-230	45.0	15.0	105°	208V / 3PH 28.0 40	ALL
CU-3	LENNOX	16ACX-060-230	60.0	15.5	105°	208V / 3PH 36.0 50	ALL
CU-4	LENNOX	16ACX-060-230	60.0	15.5	105°	208V / 3PH 36.0 50	ALL
CU-5	LENNOX	16ACX-060-230	60.0	15.5	105°	208V / 3PH 36.0 50	ALL
CU-6	LENNOX	16ACX-048-230	45.0	15.0	105°	208V / 3PH 28.0 40	ALL
CU-7	LENNOX	16ACX-060-230	60.0	15.5	105°	208V / 3PH 36.0 50	ALL
CU-8	LENNOX	16ACX-060-230	60.0	15.5	105°	208V / 3PH 36.0 50	ALL

REMARKS:
1. COOLING CAPACITY BASED ON A SUCTION TEMPERATURE OF 49°F.
2. ENERGY-STAR COMPLIANT.
3. PROVIDE WITH 3-1/2" CONCRETE PAD.

LOUVER SCHEDULE

PLAN MARK	QTY.	MANUFACTURER	MODEL NUMBER	STYLE	SERVICE	WIDTH (IN)	HEIGHT (IN)	APD (IN)	FREE AREA (SF)	VELOCITY (FPM)	REMARKS
L-1	2	GREENHECK	EDJ-401	STATIONARY	INTAKE	14	14	0.006	0.3	200	ALL

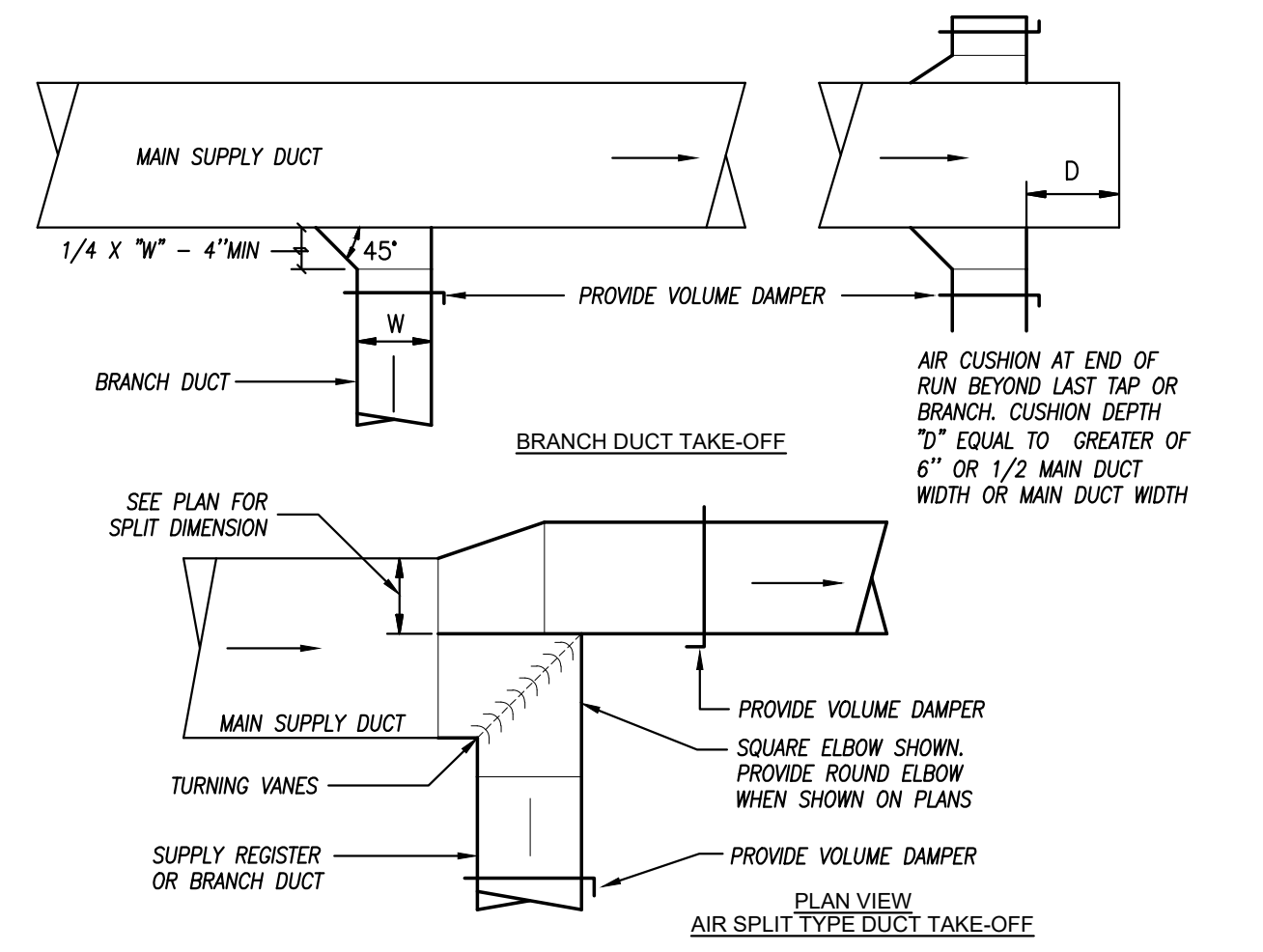
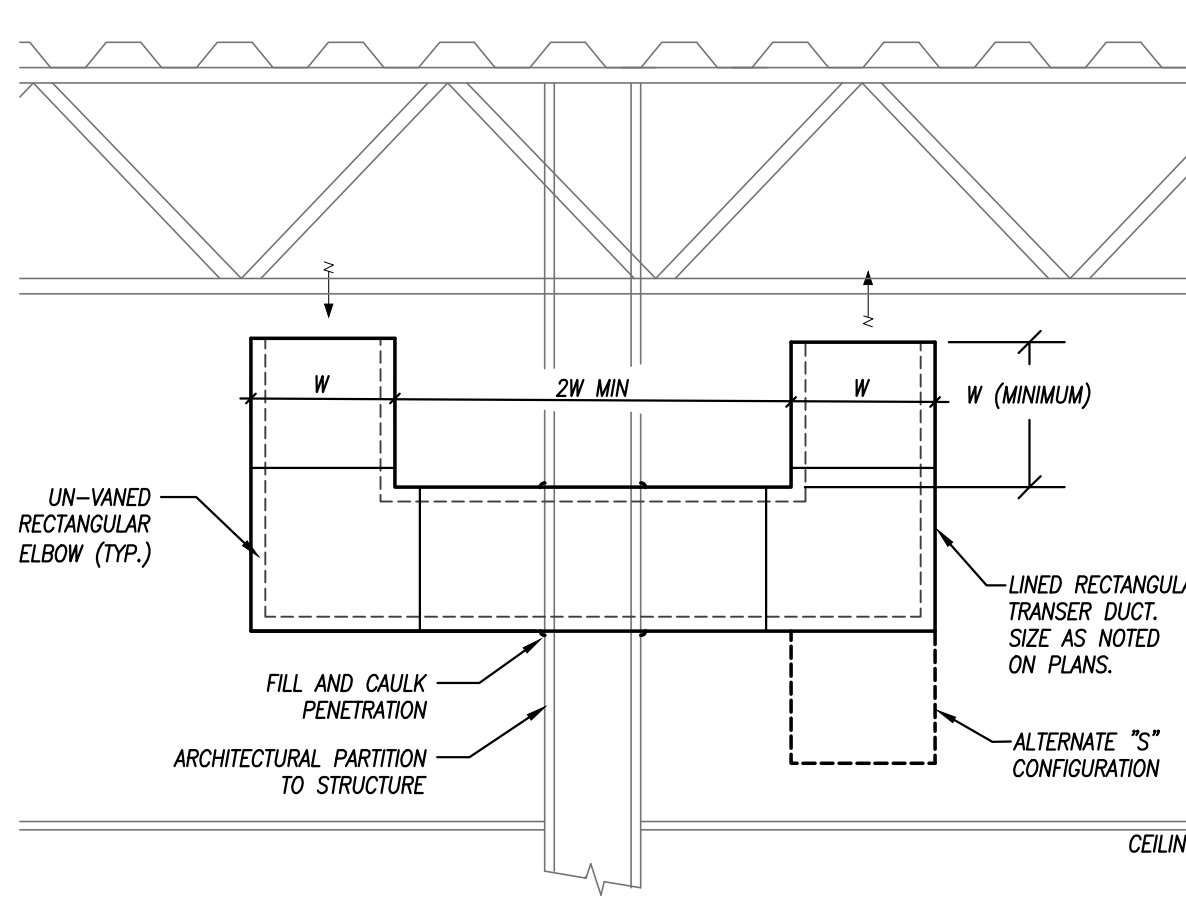
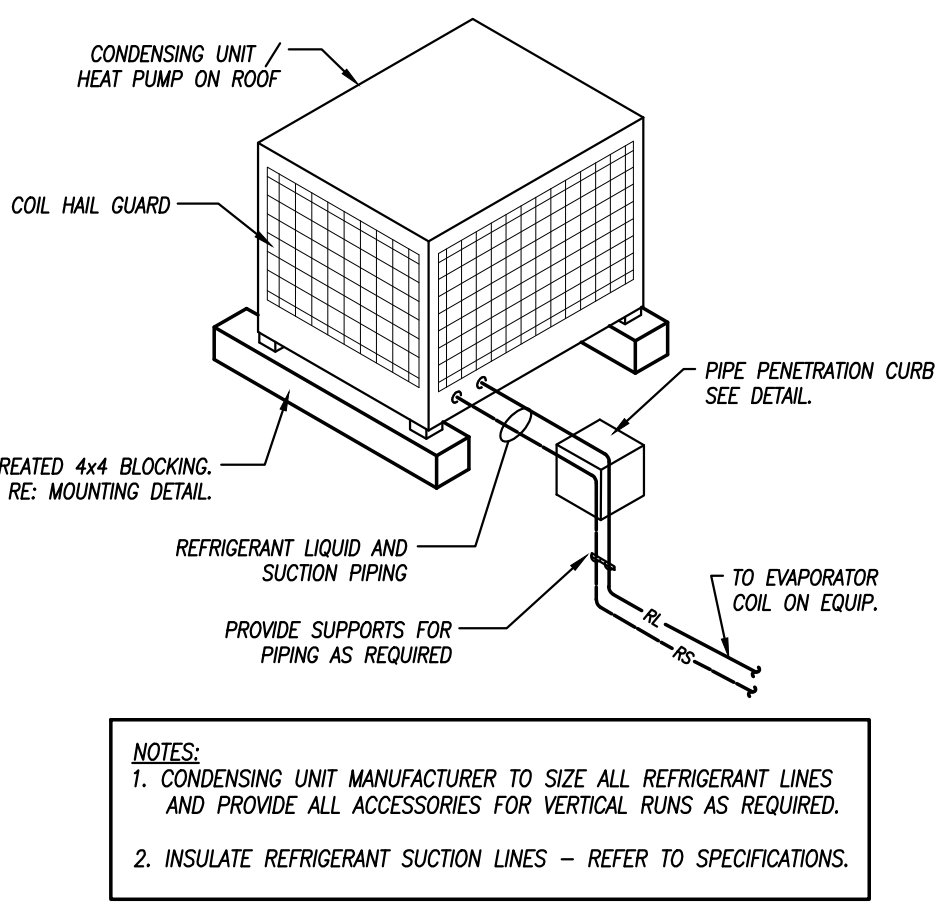
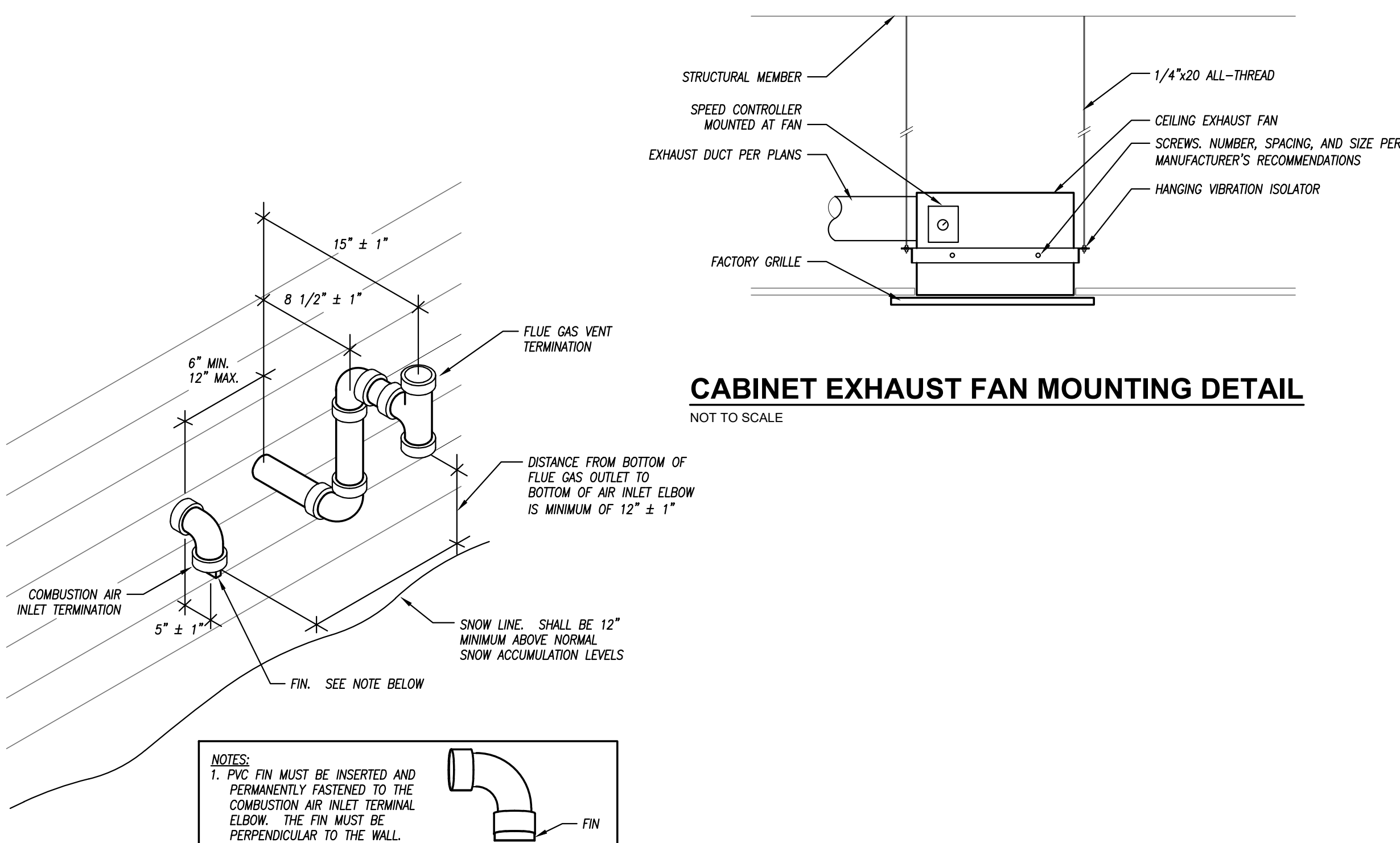
REMARKS:
1. PROVIDE EXTENDED SILL AND MOUNTING FRAME TO MATCH CONSTRUCTION. COORDINATE EXACT LOUVER SIZE TO INSTALL WITHIN MASONRY DIMENSIONS.
2. PROVIDE COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	MATERIAL	STYLE	DESCRIPTION	MOUNT TYPE	FACE SIZE (IN)	NECK SIZE (IN)	VOLUME DAMPER	MAX. APD (IN. WG.)	MAX. NC	FINISH COLOR	REMARKS
S1	TITUS	PAS	STEEL	CEILING DIFFUSER	PERFORATED FACE	LAY - IN	24x24	AS INDICATED	NO	0.08	25	WHITE	
S2	TITUS	300RS	STEEL	SIDEWALL DIFFUSER	RECTANGULAR DOUBLE DEFLECTION AEROBLADE	DUCT	AS INDICATED	AS INDICATED	YES - O.B.	0.07	30	PAINTABLE	2
R1	TITUS	350FL2	STEEL	SQUARE WALL	35 DEG SINGLE DEFLECTION AEROBLADE 3/4" SPACING	WALL	AS INDICATED	AS INDICATED	NO	0.08	25	WHITE	1
R2	TITUS	PAR	STEEL	CEILING DIFFUSER	PERFORATED FACE	LAY - IN	AS INDICATED	AS INDICATED	NO	0.08	25	WHITE	

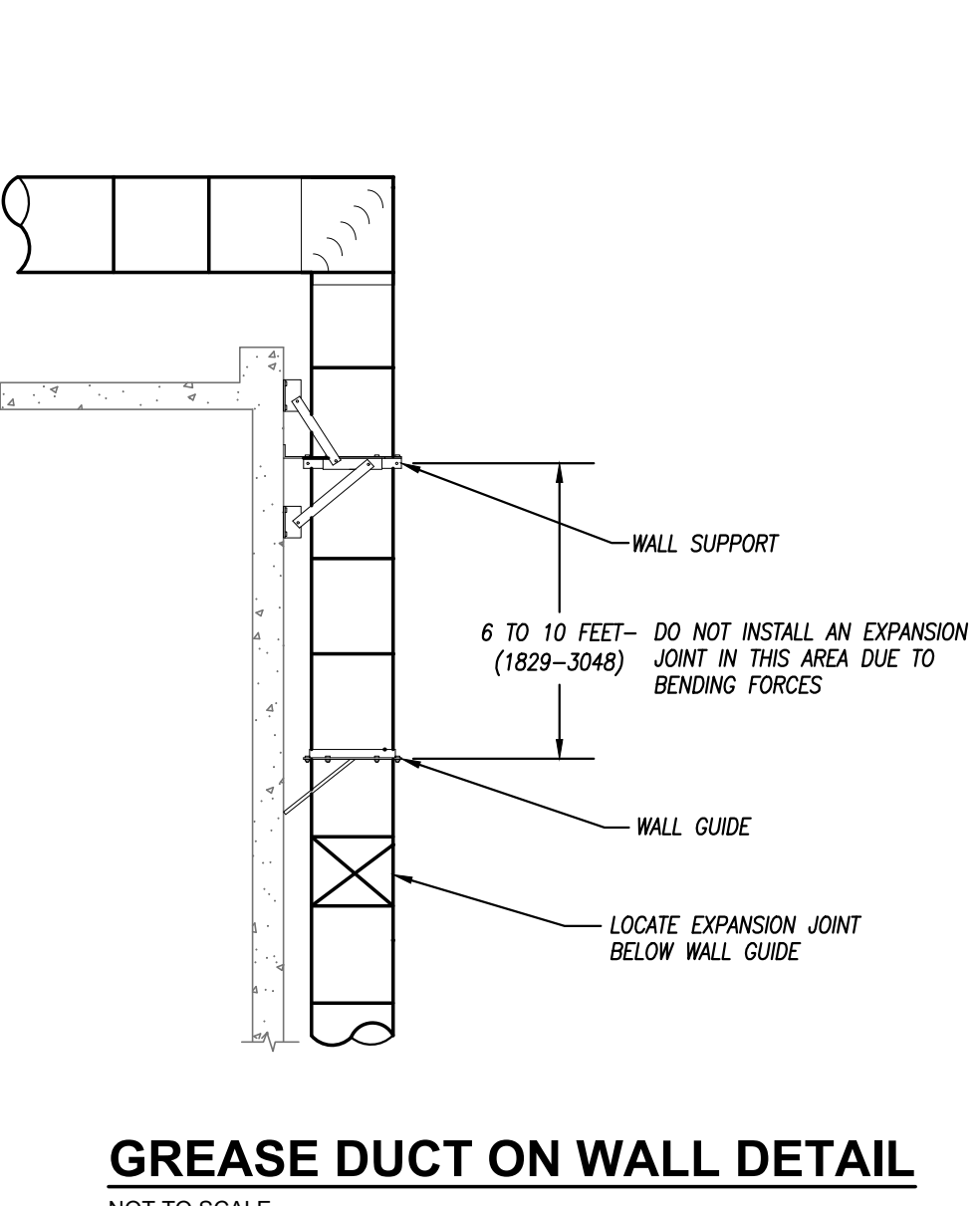
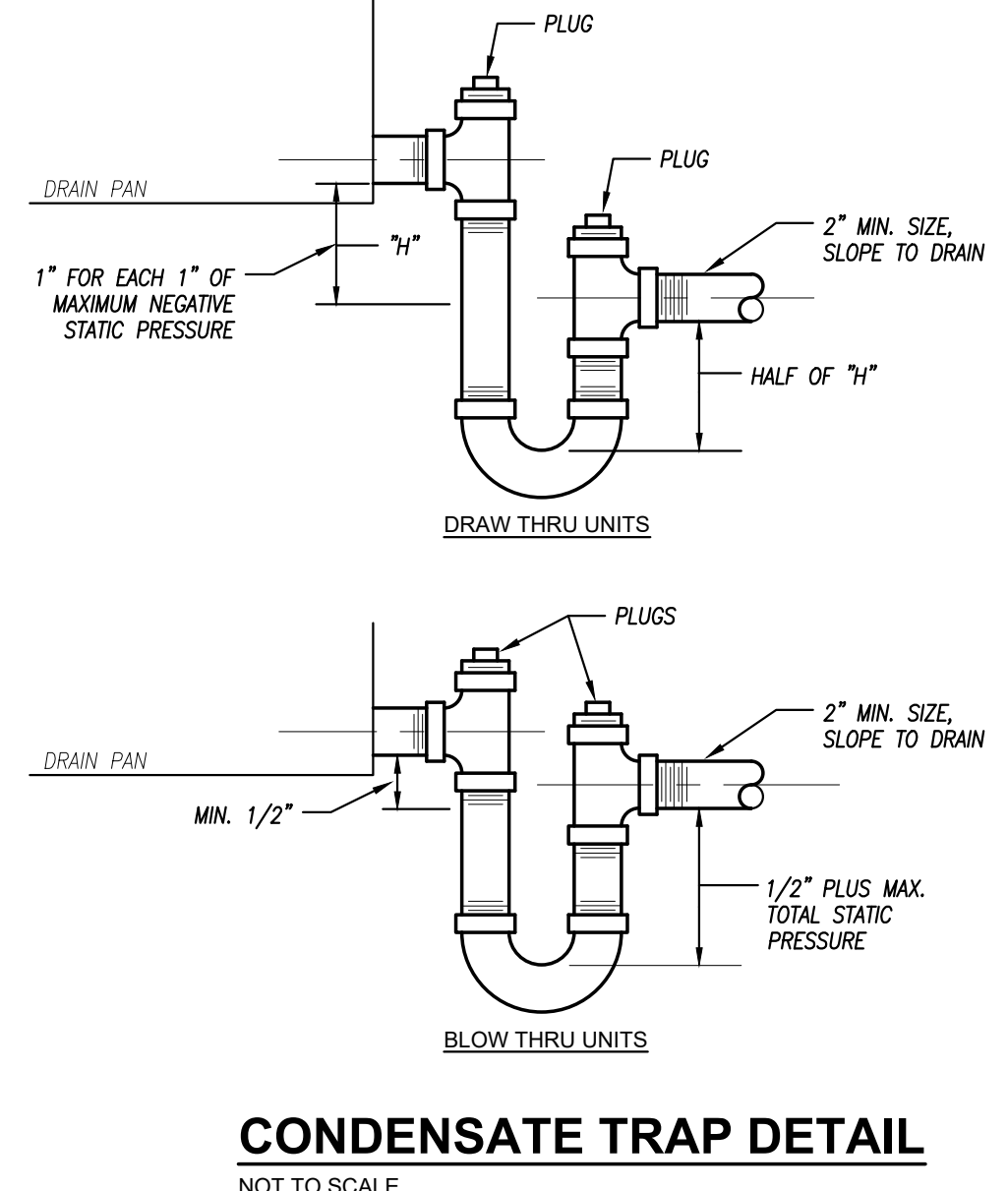
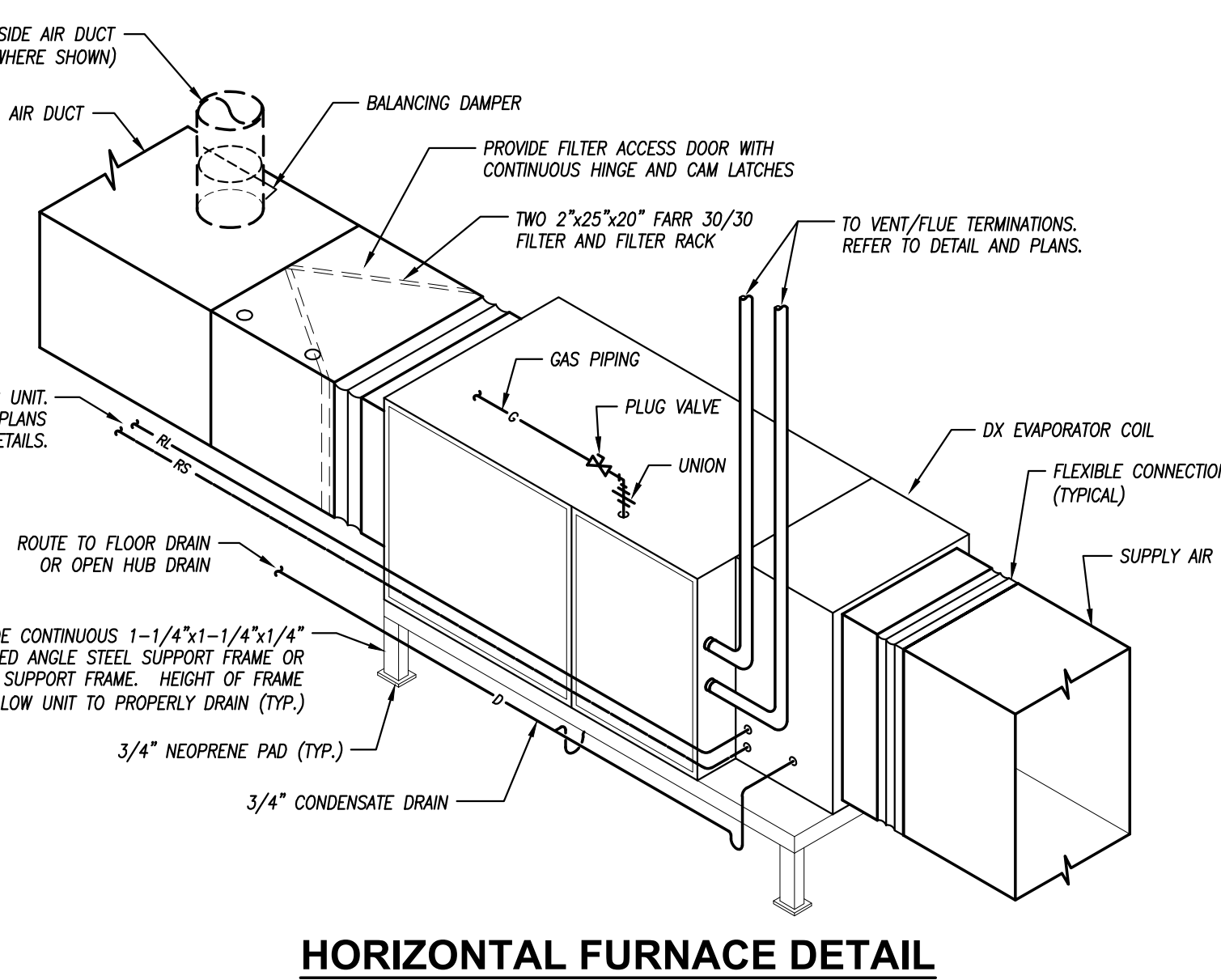
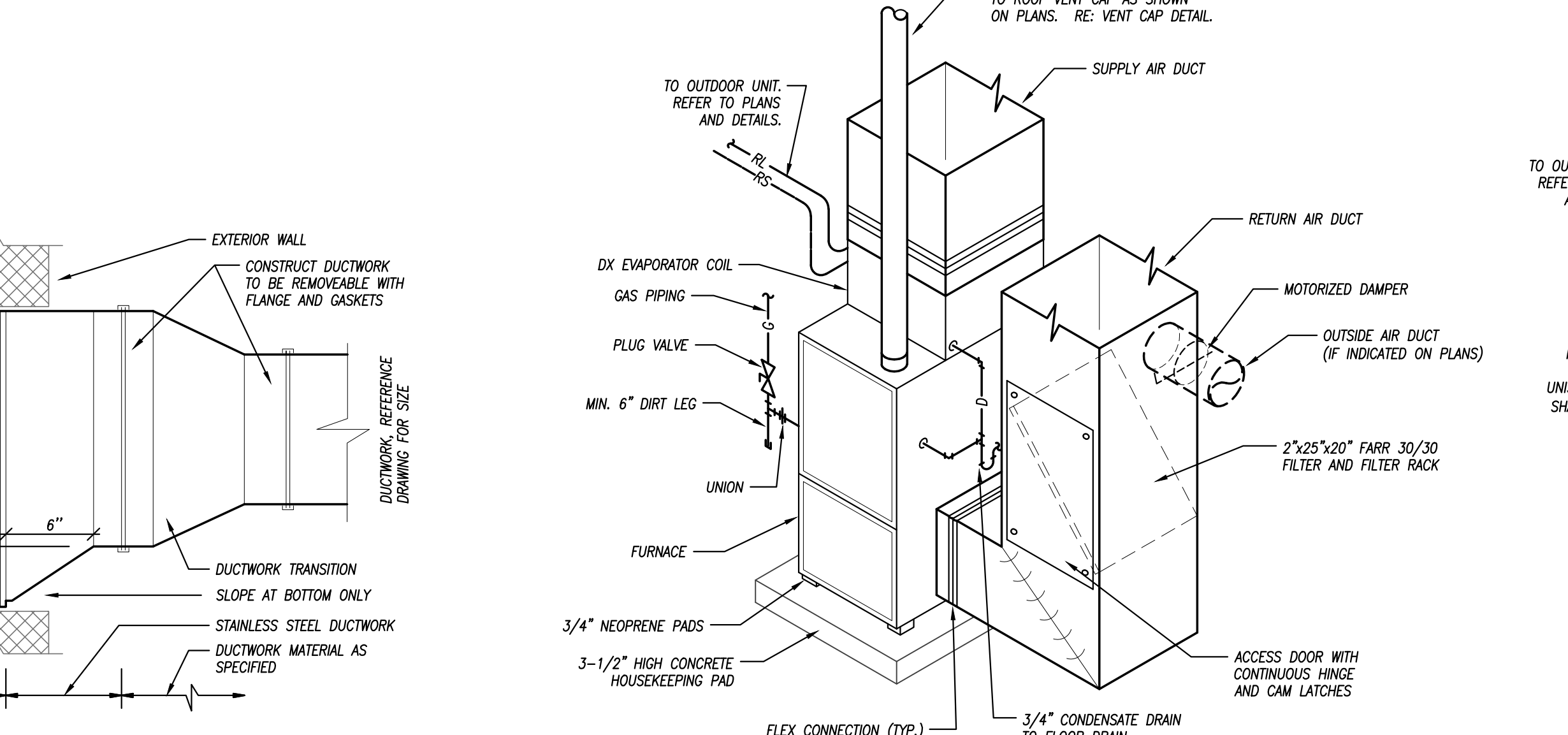
NOTES:
1. PROVIDE ALL GRD WITH ALL NECESSARY MOUNTING HARDWARE.
2. PROVIDE GRD WITHOUT SCREWHOLE WHEN INSTALLED IN LAY-IN CEILINGS.
3. VERIFY CEILING CONFIGURATION, COLOR AND SPECIFICS WITH ARCHITECTURAL CEILING PLANS.

NOTES:
1. PROVIDE WITH FILTERED GRILLE. PROVIDE WITH MERV 8 2" FILTER TO FIT WITHIN GRILLE ASSEMBLY.
2. PROVIDE WALL FINISH, AND PAINT AS DIRECTED BY OWNER/ARCHITECT.



WALL VENT/COMBUSTION AIR DETAIL

NOT TO SCALE



DUCTWORK AT LOUVER

NOT TO SCALE

FURNACE DETAIL

NOT TO SCALE

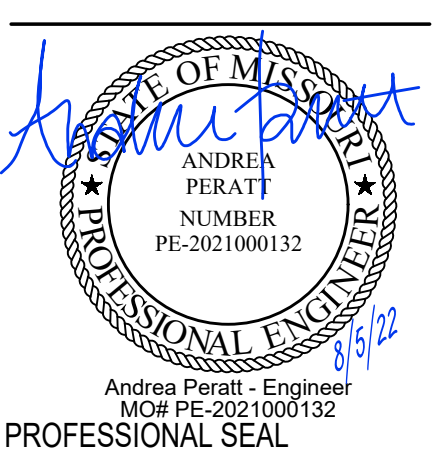


MAIN STREET LANDLORD IMPROVEMENTS

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

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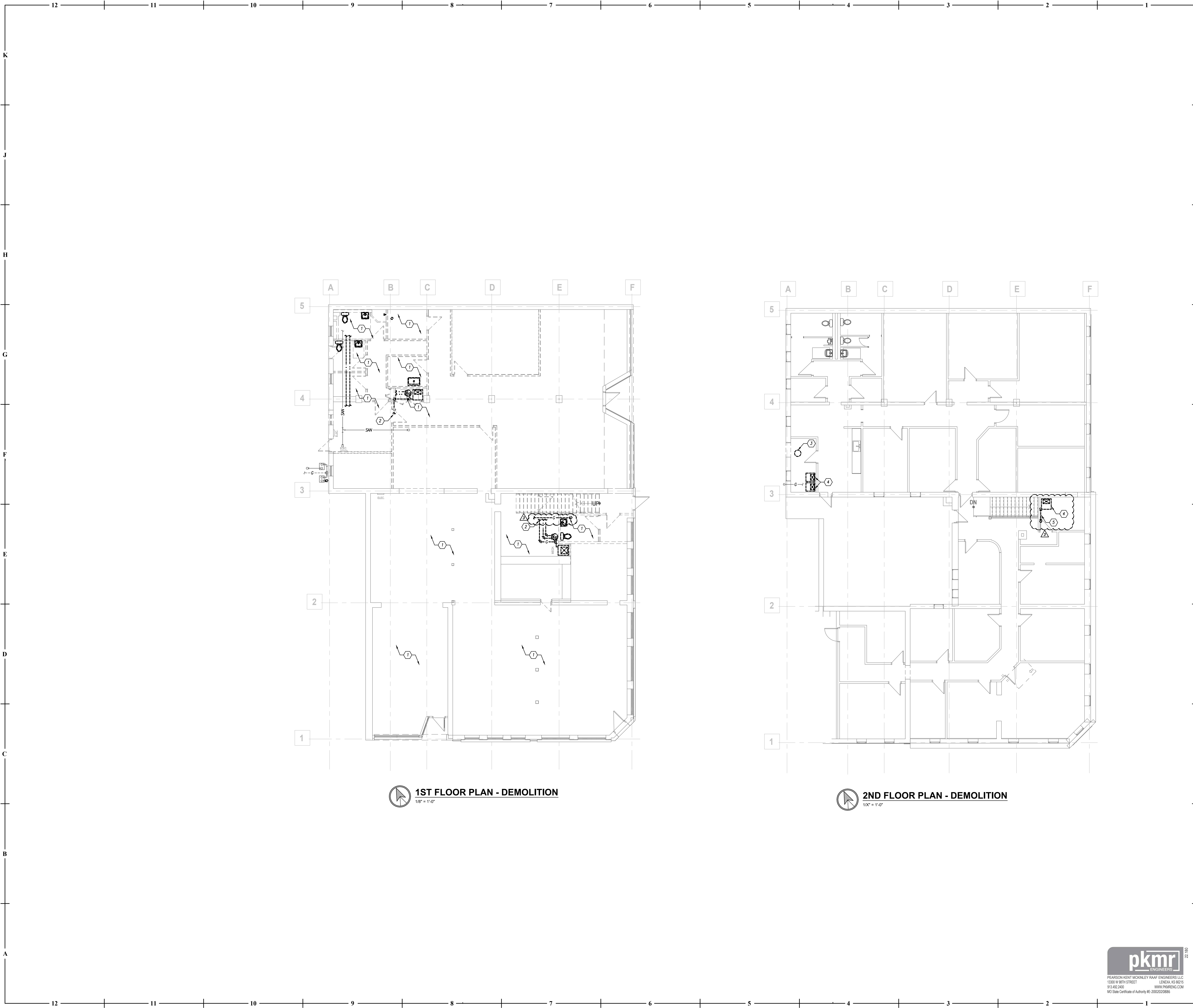


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ISSUE DATE: APRIL 21, 2022
COLLINS WEBB #: 21121

MECHANICAL - SCHED. /DETAILS



PEARSON KENT MCKINLEY RAAF ENGINEERS LLC
1309 W 96TH STREET
913 482 2400
WWW.PKMRNG.COM
MO State Certificate of Authority #E-000020086



 **1ST FLOOR PLAN - DEMOLITION**
1/8" = 1'-0"

 **2ND FLOOR PLAN - DEMOLITION**
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

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

DEMOLITION PLAN KEYED NOTES

1. REMOVE ALL DOMESTIC COLD WATER, HOT WATER, SANITARY & VENT PIPE SERVING FIRST FLOOR FIXTURES AND EQUIPMENT. DO NOT DEMOLISH SANITARY PIPES FROM SECOND FLOOR. REFER TO NEW WORK PLAN.
2. GAS PIPE SERVING FIRST FLOOR TO BE REMOVED.
3. EXISTING WATER HEATER TO BE REPLACED ON SAME LOCATION. REUSE ALL EXISTING PIPES AND ACCESSORIES. REFER TO NEW WORK PLAN.
4. EXISTING FURNACE TO BE REPLACED ON SAME LOCATION. REMOVE EXISTING GAS CONNECTION AND PROVIDE NEW CONDENSATE DRAIN PIPE.
5. REMOVE EXISTING GAS PIPING BACK TO MAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING ROUTING.



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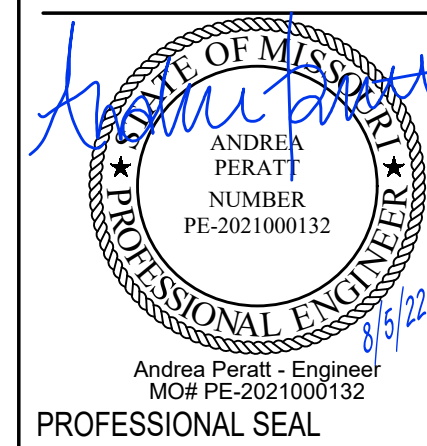
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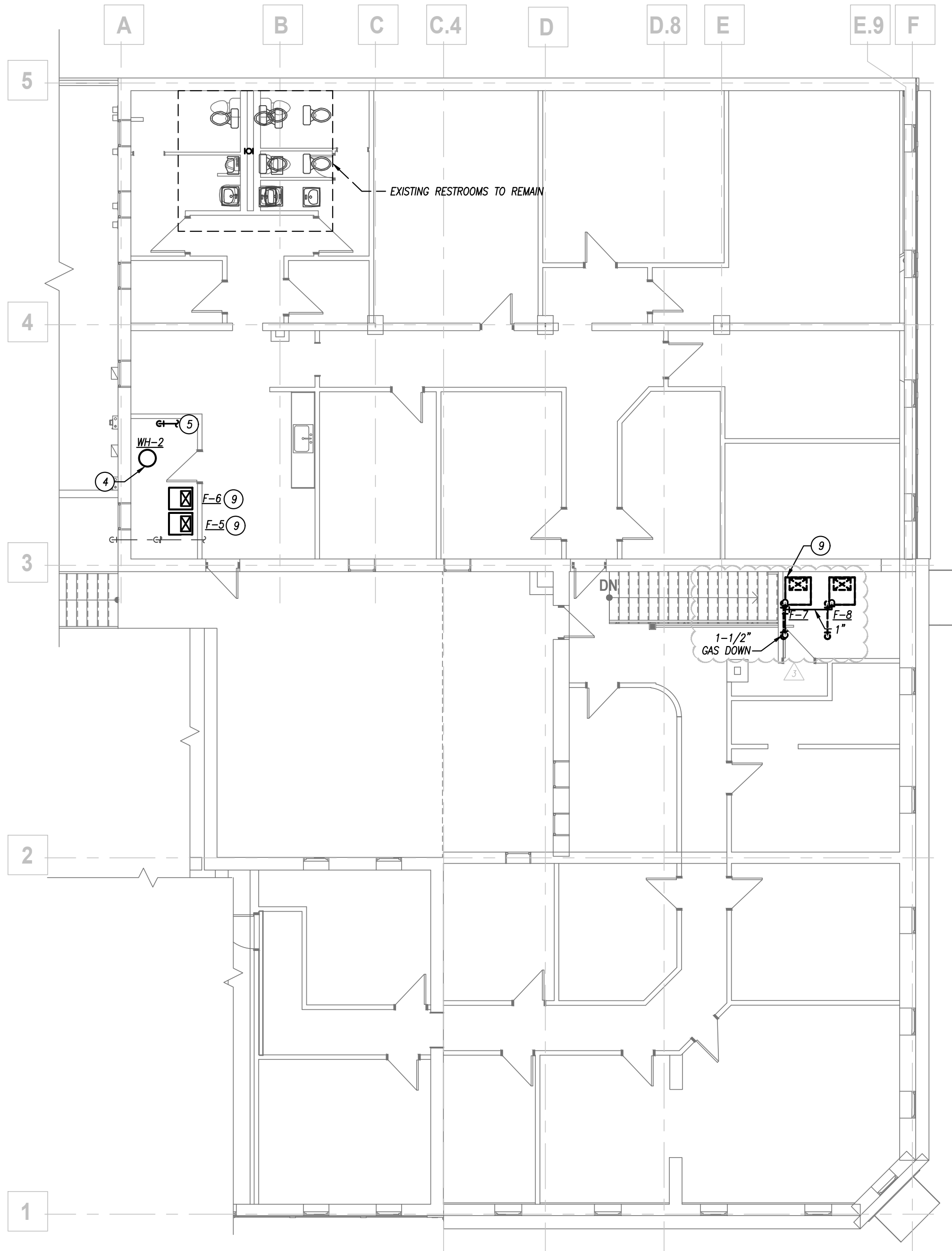
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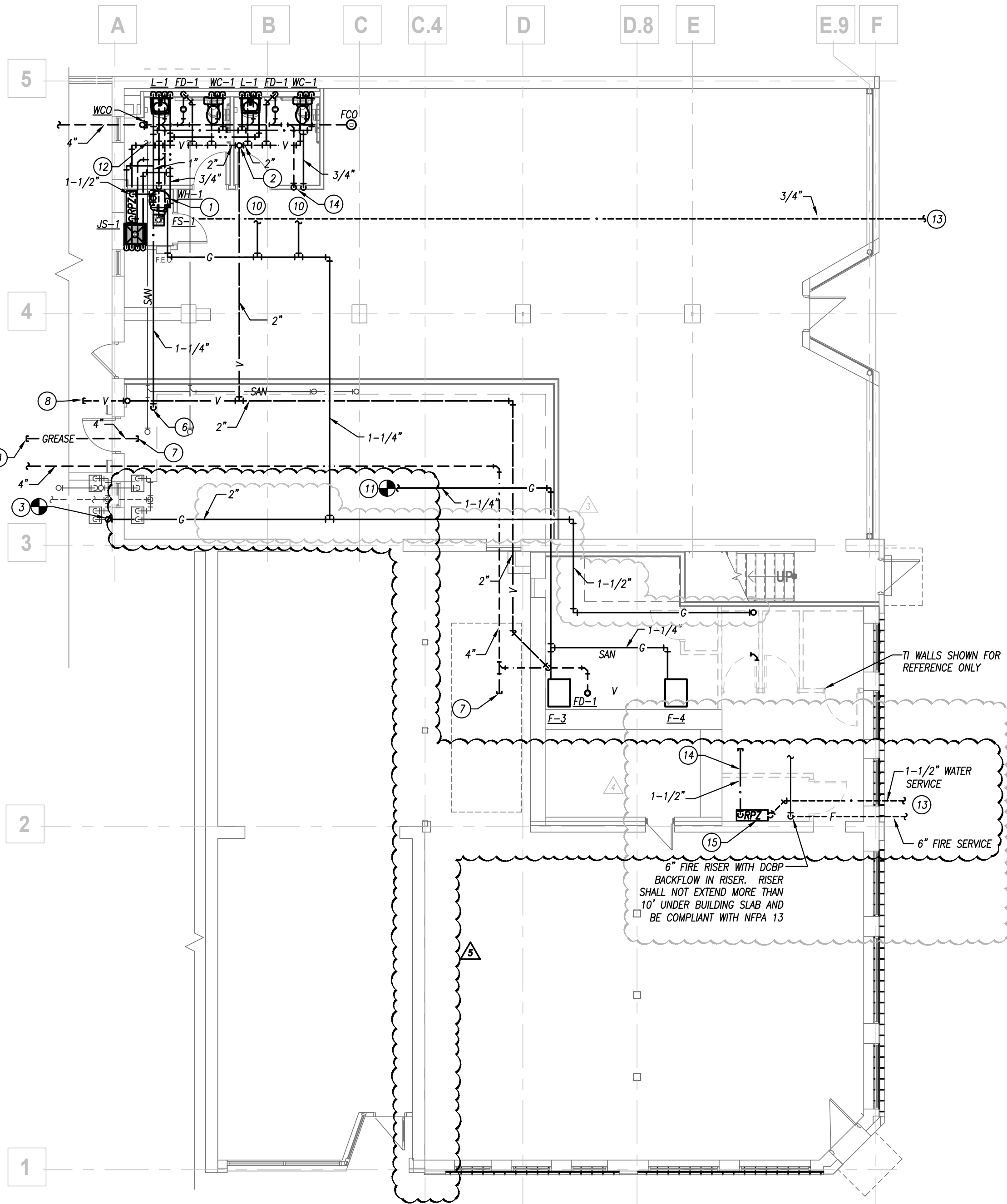
PEARSON KENT MCKINLEY RAAP ENGINEERS, LLC
1300 W 96TH STREET
LENDIA, KS 66215
913.482.2400 WWW.PKMRNG.COM
MO State Certificate of Authority #E-0002020886

DEMOLITION - FLOOR PLANS

Permit Set



2ND FLOOR PLAN - PIPING
1/8" = 1'-0"



1ST FLOOR PLAN - PIPING
1/8" = 1'-0"

SCOPE OF FIRE SUPPRESSION

CONTRACTOR SHALL INSTALL NEW NFPA-13 FIRE SUPPRESSION SYSTEM FOR BUILDING. REFER TO SPECIFICATIONS FOR REQUIREMENTS, PRODUCT SPECIFICS AND INSTALLATION PROCEDURES. SPRINKLER SYSTEM SHALL BE MONITORED BY THE FIRE ALARM SYSTEM OR A MONITORING SYSTEM WITH DIALER WHEN NO FIRE SPRINKLER IS PRESENT. CONTRACTOR SHALL PROVIDE NECESSARY TAMPER FLOW SWITCH, CONTROLS, AND MONITORING AS REQUIRED. SYSTEM SHALL BE QUICK RESPONSE TYPE FOR APPROPRIATE HAZARD CLASSIFICATION. COORDINATE WITH APPROVED ARCHITECTURAL PLANS FOR CONSTRUCTION TYPES, CLASSIFICATIONS AND HAZARDS.

CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND ARCHITECTURAL PLANS FOR ROUTING OF PIPING AND PLACEMENT OF SPRINKLER HEADS. COORDINATE ATTIC LAYOUT WITH ARCHITECTURAL PLANS AND ANY DRAFTSTOPS OR FIRE BARRIER LOCATIONS. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION SHOWING COORDINATION OF SPRINKLER PIPING AND SPRINKLER HEADS WITH OTHER TRADES.

WHERE BUILDING REMAINS UNFINISHED THE SPRINKLER SYSTEM SHALL DESIGNED FOR CAPACITY TO EXTEND THE SYSTEM WITHOUT RETURNING TO THE RISER LOCATION FOR FUTURE COVERAGE OF ADDITIONAL SPACES IN BUILDING.

FIRE SPRINKLER DESIGN CRITERIA

ENGINEERING DOCUMENTS SHALL BE BASED UPON THE FOLLOWING CODES AND STANDARDS (AND LIST THEM ON THE LAYOUT DOCUMENTS):

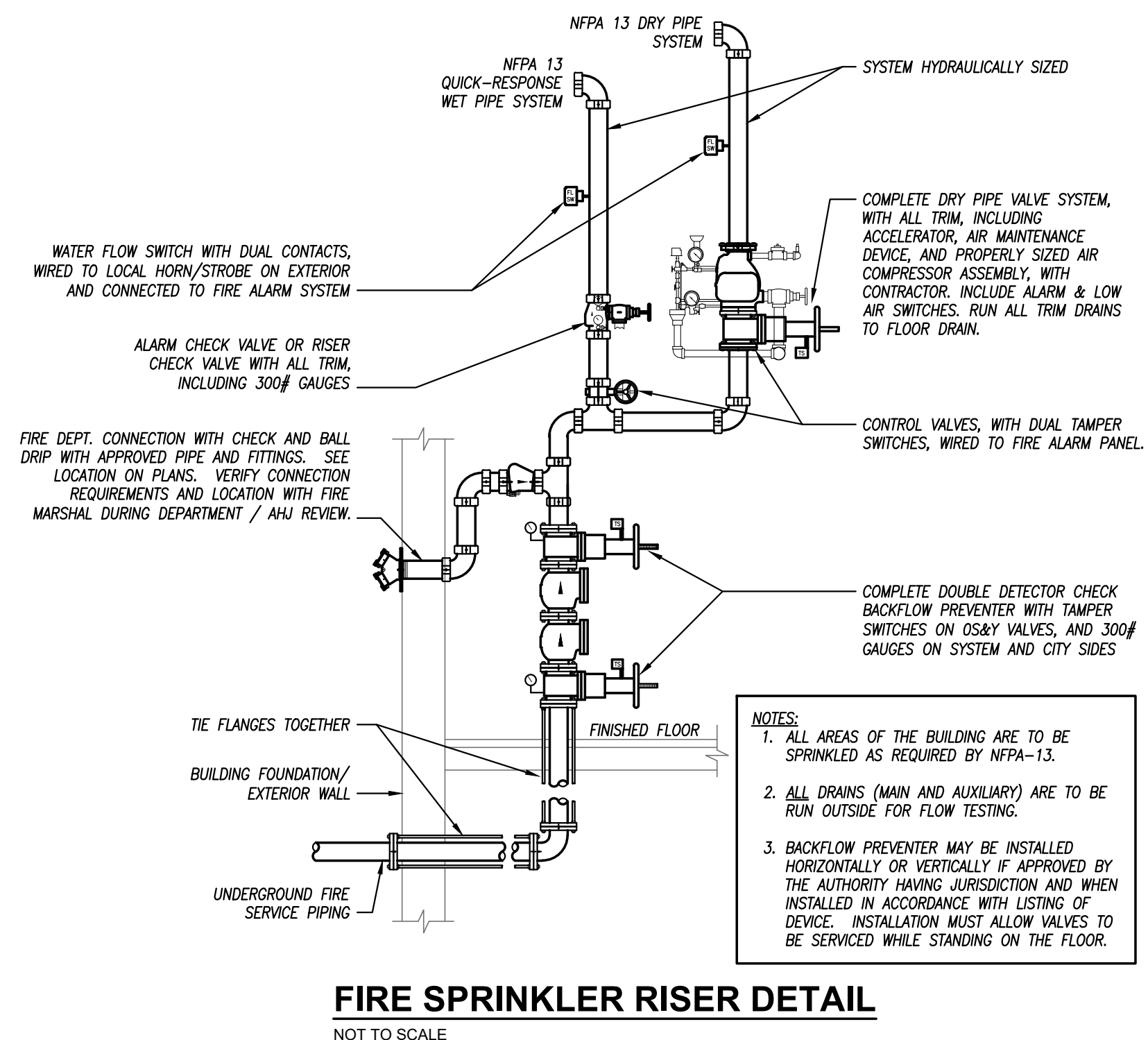
1. NFPA 13 - CURRENT EDITION

FIRE PROTECTION DOCUMENTS SHALL ALSO LIST AND/OR SHOW THE FOLLOWING (UTILIZE CODE APPROVED CODE PLANS AND COORDINATE ALL AREAS OF THE BUILDING AND VARIOUS REQUIREMENTS AS MAY BE NECESSARY. GENERALLY, THE BUILDING SPACES SHALL BE AS FOLLOWS, BUT MAY DIFFER IN SPECIFIC AREAS OF MULTIPLE OCCUPANCIES):

1. OCCUPANCY TYPE - AS LISTED ON ARCHITECTURAL CODE PLANS
2. CONSTRUCTION TYPE - AS LISTED ON ARCHITECTURAL CODE PLANS
3. DESIGN APPROACH (STATE THE FOLLOWING: RESPONSE TYPE, DENSITY, HEAD SPACING.)
4. INTERIOR OCCUPIED SPACES SYSTEM
- 4.1. SYSTEM TYPE - WET
- 4.2. HAZARD CLASSIFICATION - LIGHT
- 4.2.1. SYSTEM RESPONSE TYPE - QUICK
- 4.2.2. DENSITIES - 0.10 GPM/SF FOR 1,500 SF
- 4.2.3. MAXIMUM HEAD SPACING - 225 SF
- 4.3. HAZARD CLASSIFICATION - ORDINARY GROUP 1
- 4.3.1. SYSTEM RESPONSE TYPE - QUICK
- 4.3.2. DENSITIES - 0.15 GPM/SF FOR 1,500 SF
- 4.3.3. MAXIMUM HEAD SPACING - 130 SF
5. ATTIC AND OTHER AREAS SUBJECT TO FREEZING TEMPERATURES
- 5.1. SYSTEM TYPE - DRY
- 5.2. HAZARD CLASSIFICATION - LIGHT
- 5.2.1. SYSTEM RESPONSE TYPE - QUICK
- 5.2.2. DENSITIES - 0.10 GPM/SF FOR 1,500 SF
- 5.2.3. MAXIMUM HEAD SPACING - 120 SF
6. CHARACTERISTICS OF WATER SUPPLY TO BE USED, INCLUDING MAIN SIZE AND LOCATION, STATIC AND RESIDUAL PRESSURES AND FLOW RATES
7. THE POINT OF SERVICE FOR THE FIRE PROTECTION WATER SUPPLY
8. SYSTEM VALVING AND ALARM REQUIREMENTS:
- 8.1. SYSTEM SHALL BE MONITORED BY THE FIRE ALARM SYSTEM OR A SEPARATE MONITORING SYSTEM PANEL, DIALER AND ANNUNCIATION ACCESSORIES AS REQUIRED BY LOCAL ADOPTED CODES.
- 8.2. ALL CONTROL VALVES SHALL BE EQUIPPED WITH TAMPER AND FLOW SWITCHES WIRED TO THE MONITORING SOURCE PANEL.
9. PROVIDE ALL ADDITIONAL SYSTEM COMPONENTS FOR DRY SYSTEM INCLUDING AIR COMPRESSOR AND OTHER VALVES MONITORING


ACCEPTANCE TESTING OF FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:

1. NFPA 25 - CURRENT EDITION



FIRE SPRINKLER RISER DETAIL
NOT TO SCALE

- GENERAL PLUMBING NOTES**
1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
 2. REFER TO PLUMBING FUTURE / DRAIN SCHEDULES FOR PIPING SIZES FOR INDIVIDUAL CONNECTIONS TO FIXTURES AND RISERS NOT SHOWN ON PLANS.
 3. NO SANITARY OR VENT PIPING BELOW GRADE SHALL BE LESS THAN 2'.
 4. NO DOMESTIC WATER PIPING SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE.
 5. ALL VENT PIPING SHOWN IS DIAGRAMMATIC. USE APPROPRIATE FITTINGS FOR VENT PIPING BELOW FLOOR SLAB OF FUTURE.
 6. NOT ALL INTERIOR CLEANOUTS ARE SHOWN FOR DRAWING CLARITY. CONTRACTOR SHALL INSTALL ALL CODE-REQUIRED CLEANOUTS (RE: GENERAL NOTES ON COVER SHEET). COORDINATE EXACT LOCATIONS OF CLEANOUTS WITH ARCHITECT.
 7. ALL FLOOR DRAIN TRAPS SHALL BE PROTECTED BY ONE OF THE FOLLOWING METHODS, TO BE INSTALLED AT CONTRACTOR'S DISCRETION AND IN COMPLIANCE WITH ADOPTED VERSION OF PLUMBING CODE AND/OR ANI:
- PLUMBING PLAN KEYED NOTES**
1. INSTALL WATER HEATER NEXT TO JANITOR'S SINK.
 2. 3" VENT THROUGH CHASE ON 2ND FLOOR TO ROOF. TERMINATE VENT 10' CLEAR FROM ANY OUTSIDE AIR INTAKE.
 3. CONNECT 2-1/2" GAS LINE TO EXISTING GAS MAIN FOR NORTH/SOUTH FLOOR TENANT. CONTRACTOR SHALL FIELD VERIFY GAS PIPE ROUTING AND SIZING PRIOR TO NEW SCOPE OF WORK.
 4. NEW WATER HEATER. RECONNECT WATER HEATER TO EXISTING PLUMBING. PROVIDE NEW PIPE/PIPE FITTING IF REQUIRED.
 5. 3/4" DOMESTIC WATER PIPE UP FROM FLOOR BELOW. CONNECT TO EXISTING COLD WATER MAIN TO SERVE ALL 2ND FLOOR PLUMBING FIXTURES AND EQUIPMENT. CONTRACTOR TO VERIFY LOCATION OF EXISTING PIPE.
 6. 3/4" COLD WATER PIPE TO 2ND FLOOR.
 7. PIPE TO BE CAPPED FOR FUTURE TENANT USE. PIPING TO BE 36" BELOW FINISH GRADE FOR FUTURE TENANT USE.
 8. UNDERGROUND GREASE AND VENT TO BE CAPPED OUTSIDE FOR FUTURE GREASE INTERCEPTOR.
 9. RECONNECT EXISTING GAS TO FURNACES. PROVIDE NEW CONDENSATE DRAIN AND TERMINATE TO NEAREST FLOOR DRAIN.
 10. GAS PIPE FOR FURNACE F-1 AND F-2 RESPECTIVELY. REFER TO DETAIL FOR CONNECTION.
 11. CONNECT TO EXISTING GAS MAIN FOR SOUTH TENANT. CONTRACTOR SHALL FIELD VERIFY GAS PIPE ROUTING AND SIZING PRIOR TO NEW SCOPE OF WORK.
 12. CONNECT EXISTING SANITARY LINE FROM SECOND FLOOR EXISTING PIPING TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK.
 13. REFER TO CIVIL FOR CONTINUATION.
 14. CAP PLUMBING PIPING FOR FUTURE TENANT BUILD OUT.
 15. ROUTE DRAIN FROM RP2 TO UTILITY SINK PROVIDED IN TI PHASE. REFER TO TI DRAWINGS FOR EXACT LOCATION.



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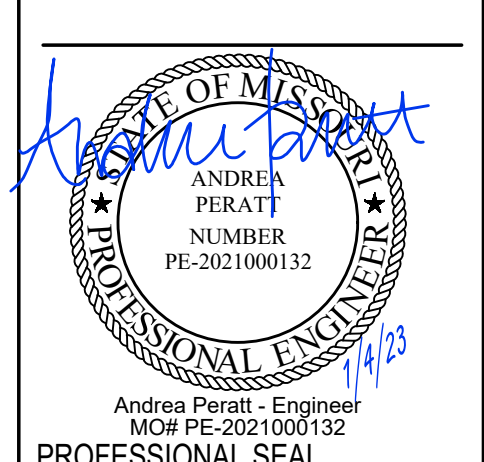
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Owner Revision	01/04/23



Andrew Peratt - Engineer
MOR PE-2021000132
PROFESSIONAL SEAL

P111

ISSUE DATE: APRIL 21, 2022
COLLINS WEBB #: 21121

PLUMBING - FLOOR PLANS

PIPING MATERIAL & INSULATION SCHEDULE

PIPING SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION TYPE	THICKNESS
DOMESTIC COLD WATER	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2"
DOMESTIC HOT WATER & HW RETURN	1/2"-1-1/4"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1"
DOMESTIC HOT WATER & HW RETURN	1-1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1-1/2"
NATURAL GAS - ABOVE GRADE	1/2"-2"	SCH. 40	STEEL - SEAMLESS	THREADED IRON OR WELDED	75 PSI - 1HR	YES	-----	----
SOIL & WASTE ABOVE GRADE	1-1/2"-6"	NO HUB / SERVICE WT.	CAST IRON	NO HUB	10 FT - 1/2HR	YES	-----	----
SOIL & WASTE ABOVE GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	-----	----
SOIL & WASTE BELOW GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	-----	----
RPTZ AND SIMILAR EXPOSED DRAIN LINES	ALL	ALL	COPPER	SOLDER, PRO-PRESS	10 FT - 1/2HR	YES	-----	----
CONDENSATE DRAIN ON ROOF	3/4"-3"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	-----	----
CONDENSATE DRAIN INTERIOR	3/4"-2"	SCH. 40	CPVC	SOLVENT JOINED	10 FT - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2" (PLENUM ONLY)
CONDENSATE DRAIN INTERIOR	1/2"-2"	L	COPPER	SOLDER, PRO-PRESS	10 FT - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2" (PLENUM ONLY)

- NOTES:
1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2. ALL INSULATION THICKNESSES SHALL MEET ADOPTED EEC AND ASHRAE 90.1 - 2016 REQUIREMENTS AT A MINIMUM.
3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.
4. WELDED PIPING IS REQUIRED FOR GAS PIPING WHEN: A) PIPING IS AT OR OVER 2PSI; B) WHEN PIPING OF ANY PRESSURE IS ROUTED THROUGH CONCEALED SPACES.

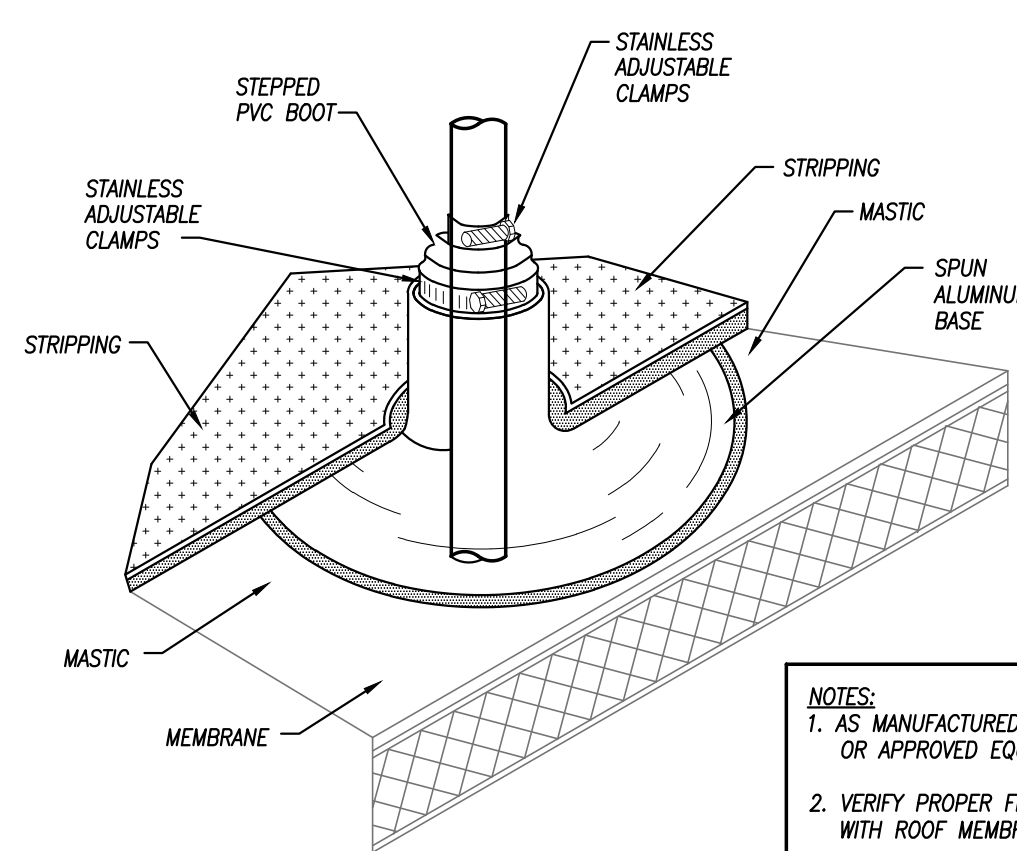
PLUMBING FIXTURE BRANCH CONNECTION SCHEDULE

FIXTURE TYPE	TRAP	WASTE	VENT	DCW	DHW
WATER CLOSET (FLUSH VALVE)	INTEGRAL	4"	2"	1"	----
URINAL (FLUSH VALVE)	INTEGRAL	2"	2"	3/4"	----
FLUSH TANK WATER CLOSET	INTEGRAL	4"	2"	1/2"	----
LAVATORY	PROVIDE TRAP	2"	1-1/2"	1/2"	1/2"
SINK	PROVIDE TRAP	2"	2"	1/2"	1/2"
MOP SINK	PROVIDE DEEP SEAL TRAP	3"	2"	1/2"	1/2"
FLOOR DRAIN	PROVIDE DEEP SEAL TRAP	AS SCHEDULED	1-1/2"	----	----
FLOOR SINK	PROVIDE TRAP	AS SCHEDULED	1-1/2"	----	----
DRINKING FOUNTAINS/ENC'S	PROVIDE TRAP	1-1/2"	1-1/2"	1/2"	----
SHOWERS/TUBS	PROVIDE TRAP	2"	1-1/2"	1/2"	1/2"
SHOWERS	PROVIDE TRAP	2"	1-1/2"	1/2"	1/2"
ICE MACHINE HOOKUP BOX	----	----	----	1/2"	----
WASHER HOOKUP BOXES	PROVIDE TRAP	2"	1-1/2"	1/2"	1/2"

FLOOR / ROOF DRAIN SCHEDULE

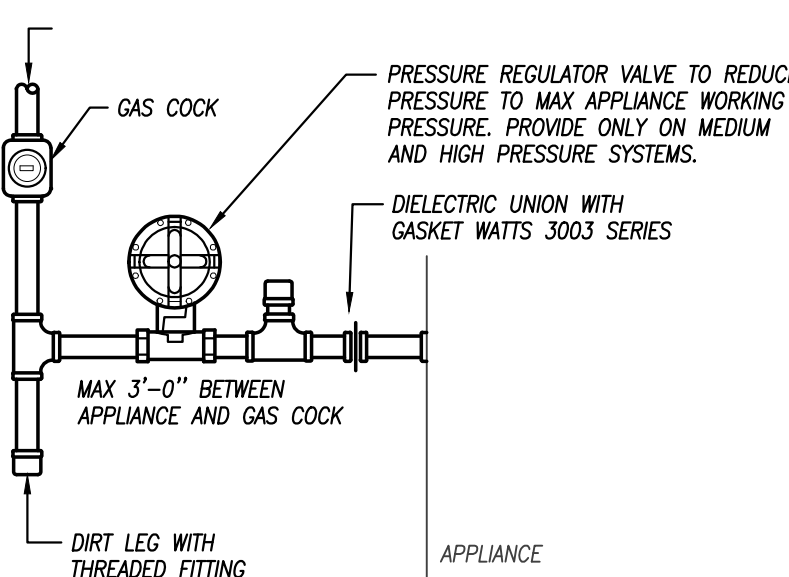
PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	TOP/GRADE SIZE	WASTE SIZE	REMARKS
FD-1	WADE	1100	FLOOR DRAIN	6"	2"	1
FS-1	WADE	9100	FLOOR SINK	12"x12"	4"	2

- REMARKS:
1. PROVIDE WITH NICKEL BRONZE TOP.
2. PROVIDE WITH 3/4" GRATE.



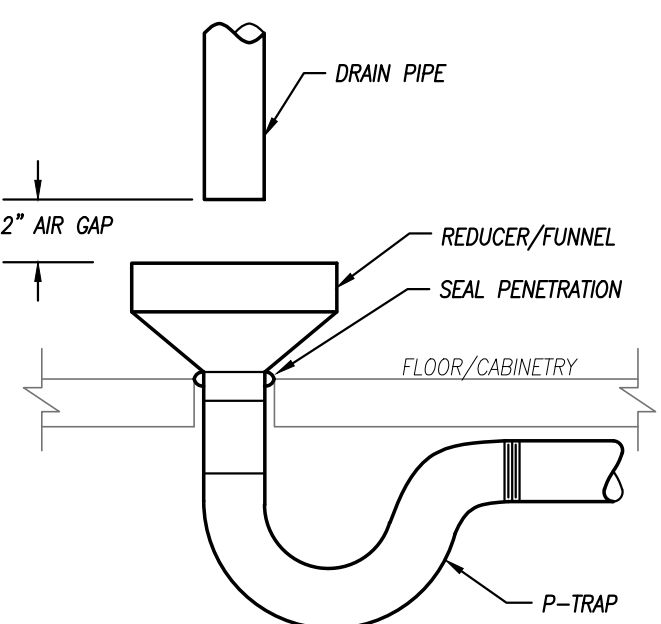
ROOF PLUMBING VENT

NOT TO SCALE



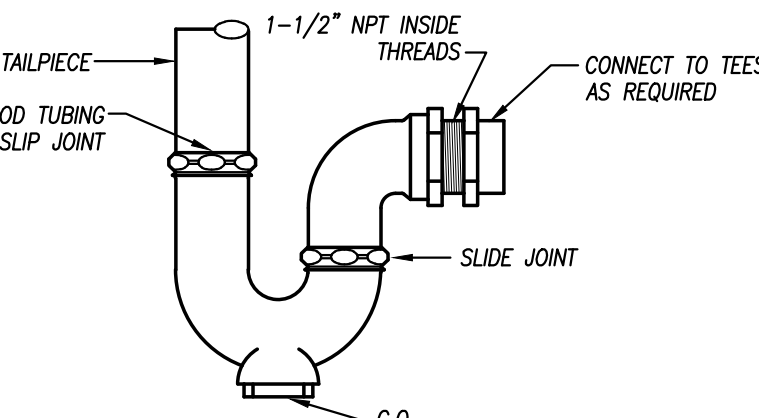
TYPICAL GAS CONNECTION

NOT TO SCALE



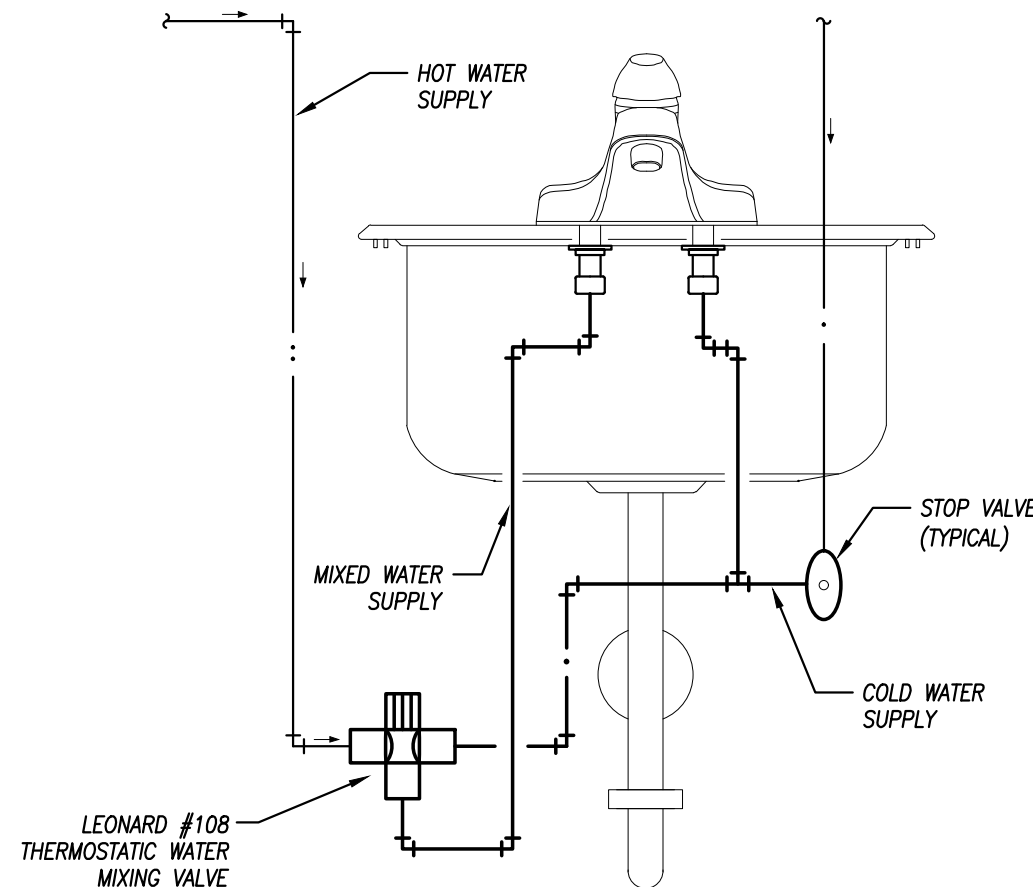
AIR GAP DETAIL

NOT TO SCALE



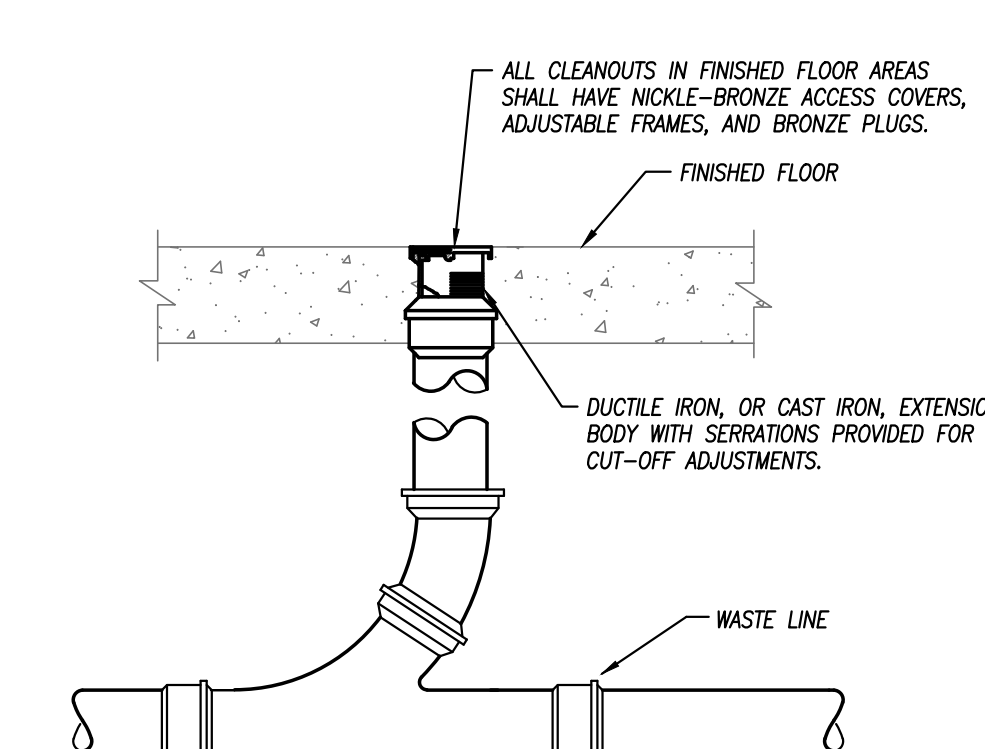
P-TRAP DETAIL

NOT TO SCALE



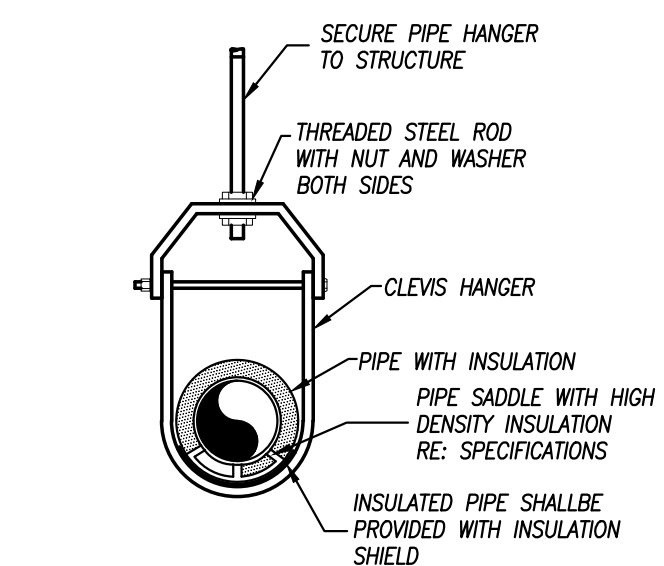
HAND WASHING SINK/LAVATORY TEMPERED WATER SCHEMATIC

NOT TO SCALE



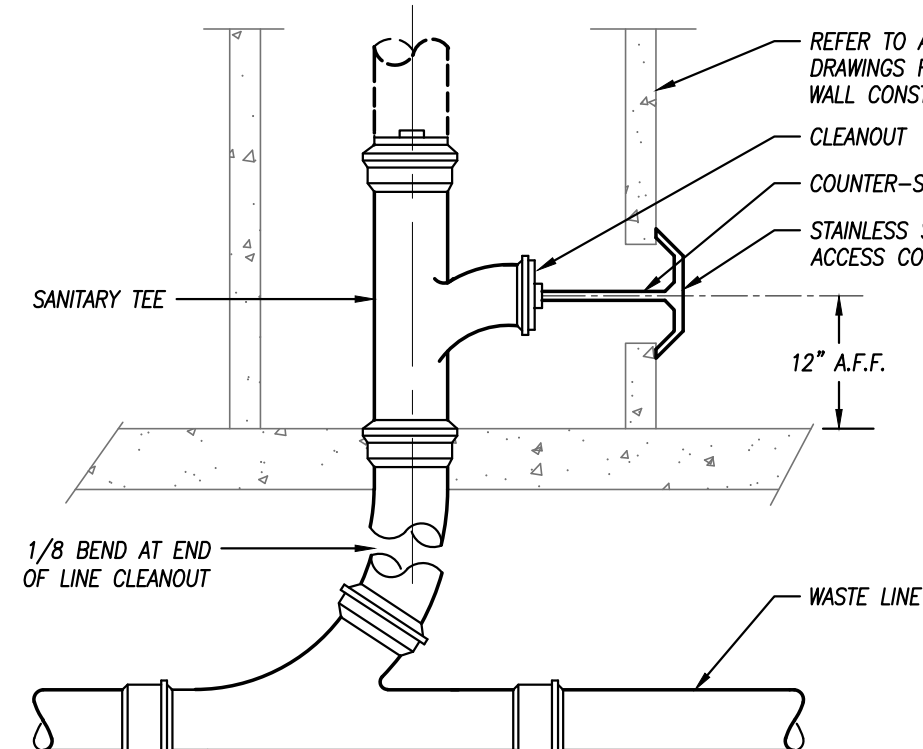
FLOOR CLEANOUT DETAIL

NOT TO SCALE



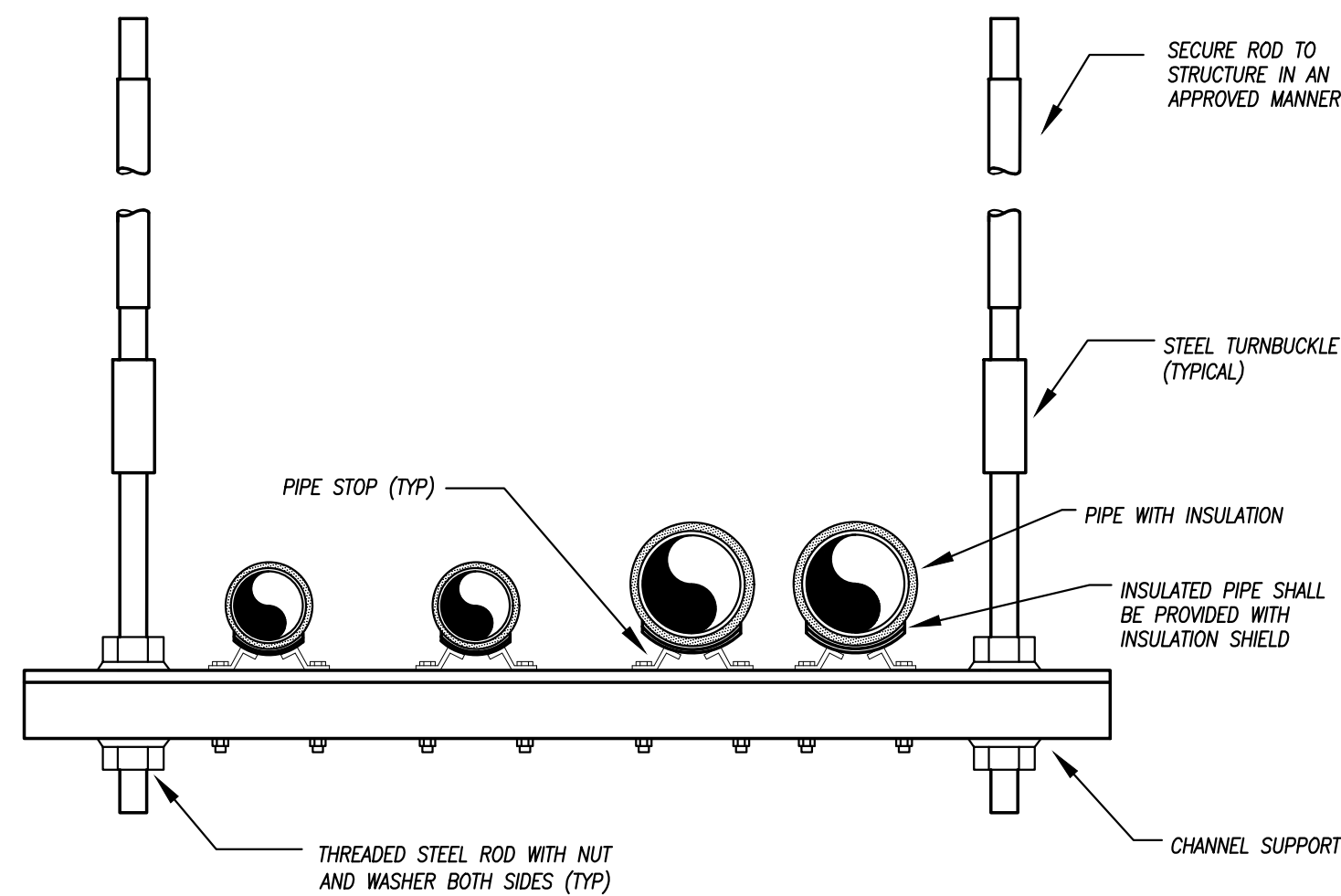
PIPE HANGER DETAIL

NOT TO SCALE



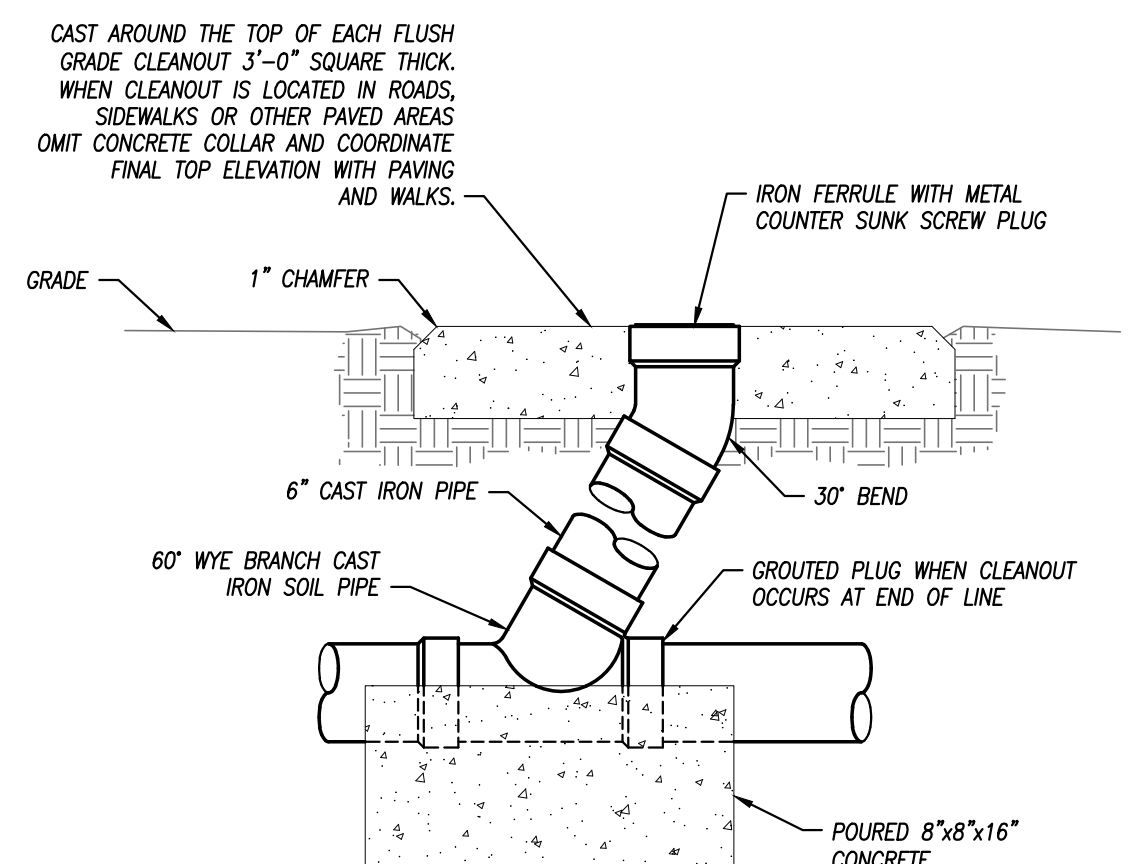
WALL CLEANOUT DETAIL

NOT TO SCALE



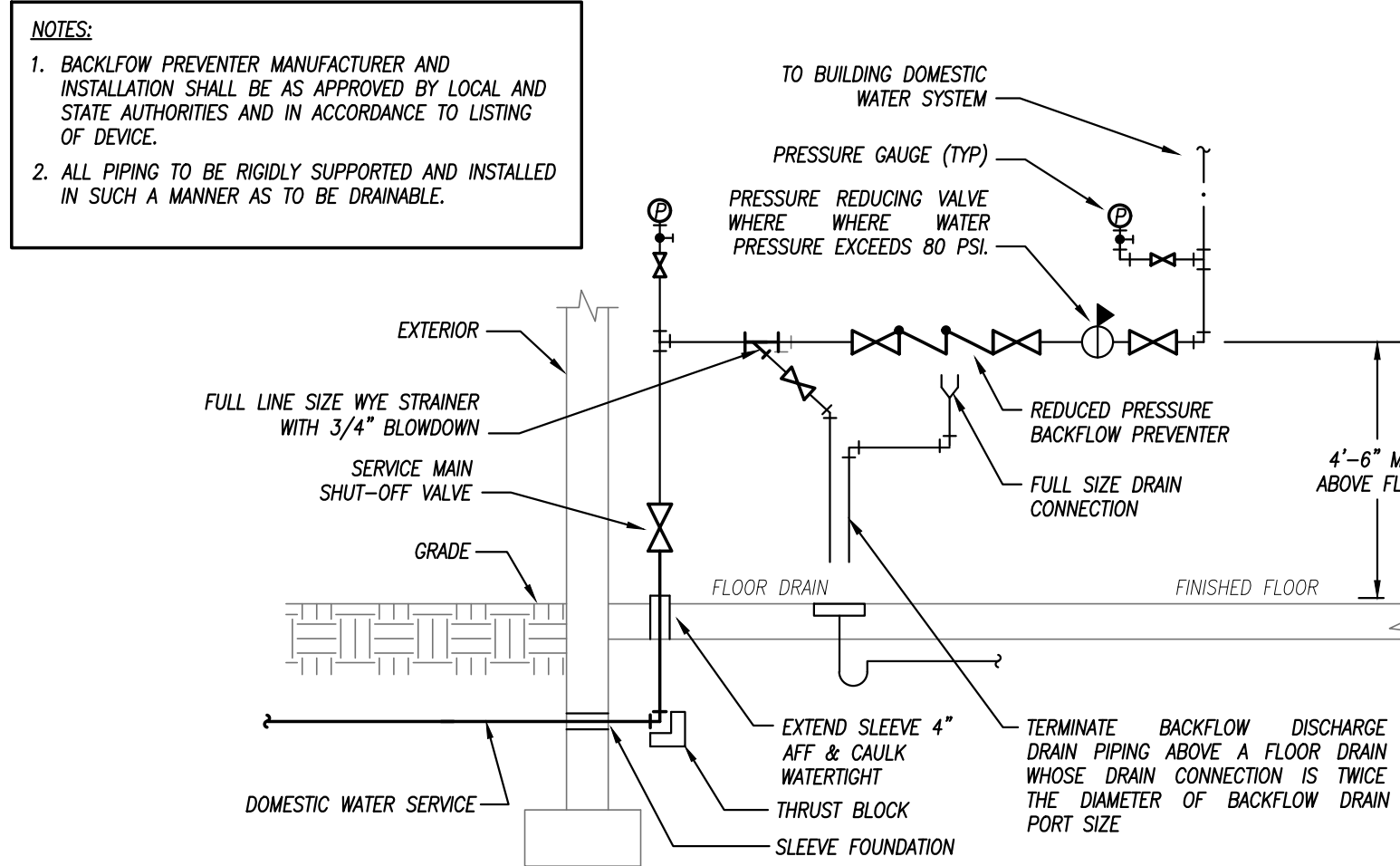
MULTIPLE PIPE TRAPEZE HANGER DETAIL

NOT TO SCALE



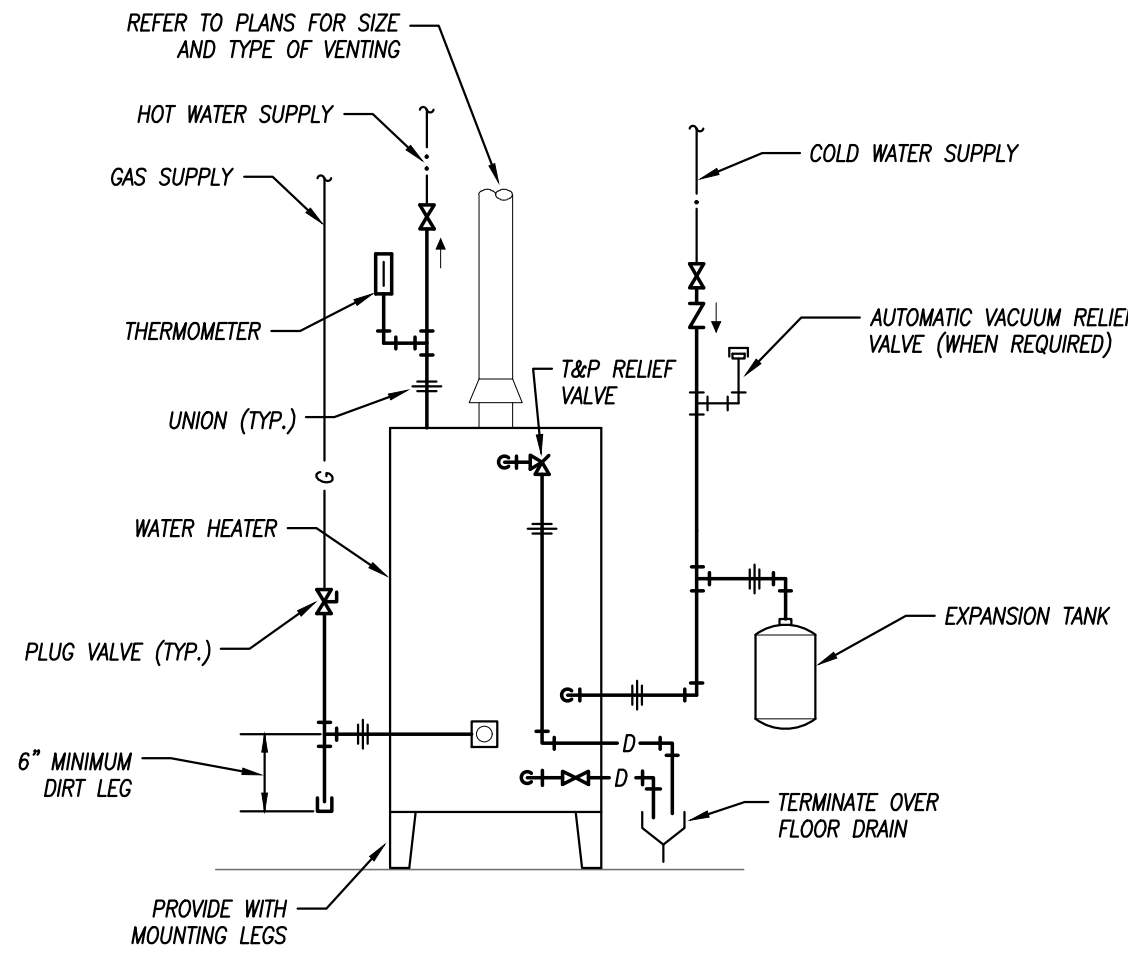
FLUSH GRADE CLEANOUT DETAIL

NOT TO SCALE



WATER SERVICE REDUCED PRESSURE BACKFLOW PREVENTER DETAIL

NOT TO SCALE



GAS WATER HEATER DETAIL

NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE MODEL	FIXTURE DESCRIPTION	FITTINGS MODEL	FITTINGS AND TRIM	REMARKS	PLUMBING FIXTURE PIPE SIZES
						WASTE VENT DCW DHW
L-1	TBD OWNER SELECTION	WALL-HUNG LAVATORY, 20"x18" WHITE VITREOUS CHINA BOWL WITH 4" BACK FOR USE WITH CONCEALED ARM HANGER. FAUCET HOLES COORDINATED WITH FAUCET AND TRIM. PROVIDE CONCEALED ARM CARRIER.	TBD OWNER SELECTION	CENTERSET SINGLE HOLE FAUCET WITH LOOP METAL LEVER HANDLE. 1/2" CONNECTIONS, WITH DRAIN AND POP-UP HOLE. POLISHED CHROME FINISH.	1,2,3,4,5	2" 1-1/2" 1/2" 1/2"
WC-1	TBD OWNER SELECTION	ADA-COMPLIANT, 128/0.9 GPF DUAL, FLUSH TANK WATER CLOSET. ELONGATED BOWL AND TANK, 16-1/8" HIGH. TWO PIECE, 12" ROUGH-IN. FINISH WITH POLISHED CHROME FLUSH ACTUATOR ON WIDE SIDE OF STALL.	TBD OWNER SELECTION	WHITE, SOLID PLASTIC, CLOSED-FRONT SEAT FOR ELONGATED BOWL. INTEGRAL BUMPERS. SOLID TOP LID. EXTERNAL CHECK HINGES WITH STAINLESS STEEL POSTS.	3,6	4" 2" 1/2" ----
JS-1	FIAT TSBC-6010	JANITORS SINK, 24"x24"x12" PRECAST TERRAZO FLOOR SERVICE SINK. CORNER CHAMFERED MODEL FOR INSTALLATION IN CORNER OF ROOM. STAINLESS STEEL CAP AND 2 SIDE WALL TUNG FLANGE. 3" STAINLESS STEEL CAST DRAIN AND STAINLESS STEEL STRAINER PLATE. PROVIDE STAINLESS STEEL WALL GUARDS, MOP BRACKETS, HOSE BACK.	CHICAGO FAUCET B97-CP	C.P. SERVICE SINK FITTING WITH VACUUM BREAKER, 3/4" HOSE THREAD ON SPOUT, ADJUSTABLE WALL BRACE, PAIL HOOK, AND 1/2" FLANGED FEMALE ADJUSTABLE ARMS WITH INTERNAL STOPS. CAULK BETWEEN WALL AND FLANGE WITH GE SILICONE SEALANT. 3" C.I. "P" TRAP.	----	3" 2" 1/2" 1/2"

- REMARKS:
1. PROVIDE CHROME-PLATED BRASS TAILPIECE AND GRID DRAIN.
2. PROVIDE CHROME-PLATED BRASS P-TRAP.
3. PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS.
4. PROVIDE CONCEALED ARM TYPE CARRIER WITH SQUARE, TUBULAR STEEL UP-RIGHTS AND BLOCK TYPE BASES.
5. INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS. REFER TO SPECIFICATIONS FOR INSULATION METHODS.
6. PROVIDE FLUSH VALVE HANDLE ON WIDE SIDE OF STALL.
7. PROVIDE HANDLE STOPS AND FLEXIBLE RISERS.
8. PROVIDE CHROME-PLATED BRASS TAILPIECE AND BASKET STRAINER.

- GENERAL NOTES (APPLICABLE TO ALL FIXTURES):
1) ALL PUBLIC LAVATORIES AND SINKS SHALL BE PROVIDED WITH ANTI-SOILD ASSE 1070 LISTED VALVE ON HOT WATER SUPPLY.
2) VERIFY PLUMBING MATERIALS AND EQUIPMENT COORDINATE BETWEEN TRADES. VERIFY CABINET SIZES, COUNTERTOP MATERIALS, WALL THICKNESSES, ETC ARE APPROPRIATE FOR SPECIFIED EQUIPMENT PRIOR TO ORDER.

GAS WATER HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	GALLONS	USE	STYLE	GAS INPUT (MBH)	ENERGY FACTOR	RECOVERY @ 90°F RISE	FLUE SIZE (IN/OUT)	VOLTAGE/ PHASE	REMARKS
WH-1	STATE	GSB 50	50	RESIDENTIAL	POWER DIRECT VENT	65	0.58	64	3" / 3"	120V / 1PH	2
WH-2	STATE	GPV 50	50	RESIDENTIAL	STANDARD EFF.	50	0.62	41	4"	120V / 1PH	1

- REMARKS:
1. DIRECT-VENT STYLE WATER HEATER.
2. PROVIDE WITH MANUFACTURERS CONCENTRIC VENT KIT.

MAIN STREET LANDLORD IMPROVEMENTS

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307B SW Market Street, Lee's Summit, MO 64063 P: 816.249.2270
(www.collinswebb.com)

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MAIN STREET LANDLORD IMPROVEMENTS

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E011

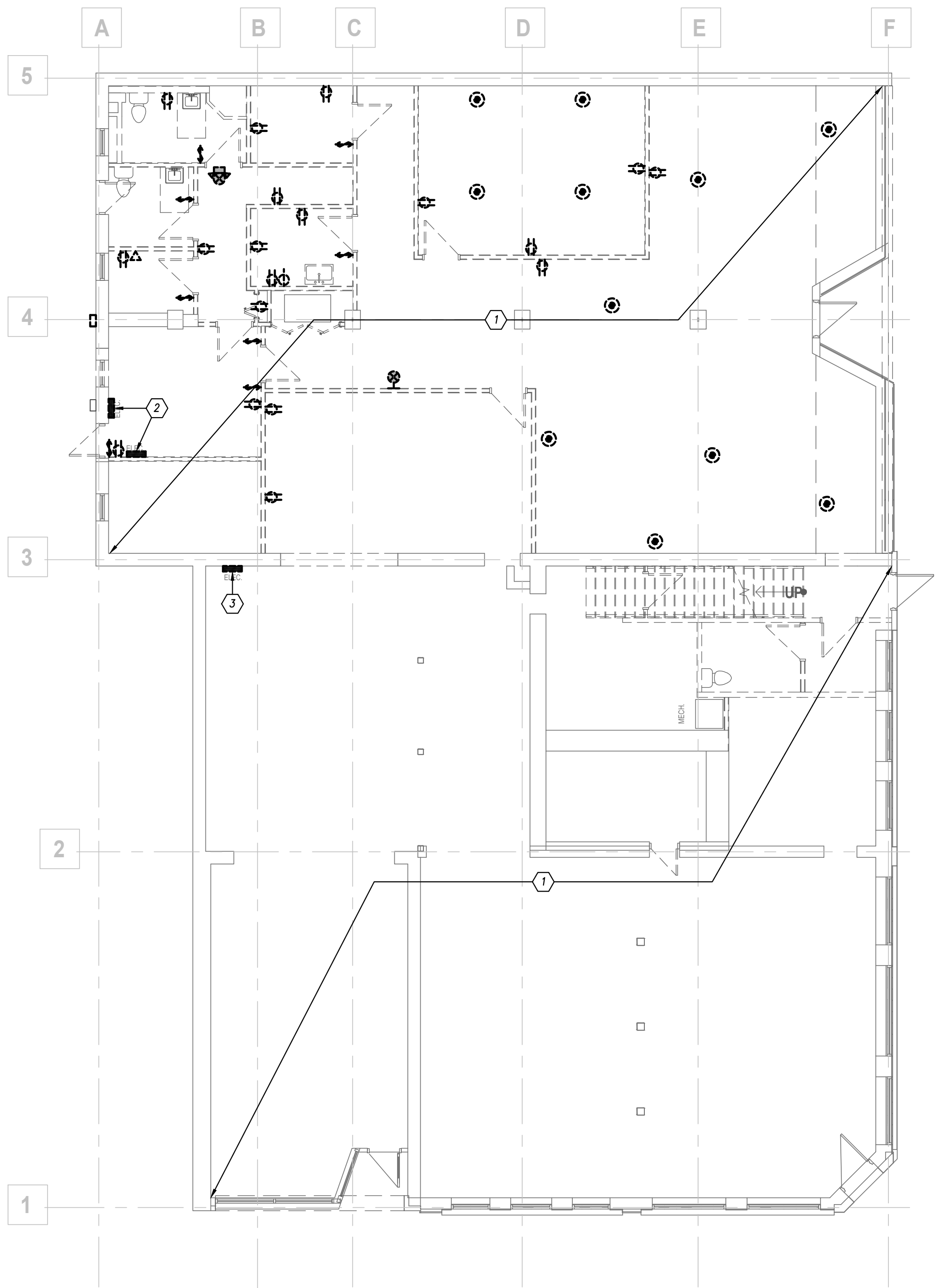
ISSUE DATE: APRIL 21, 2022
COLLINS WEBB #: 21121

GENERAL DEMOLITION NOTES

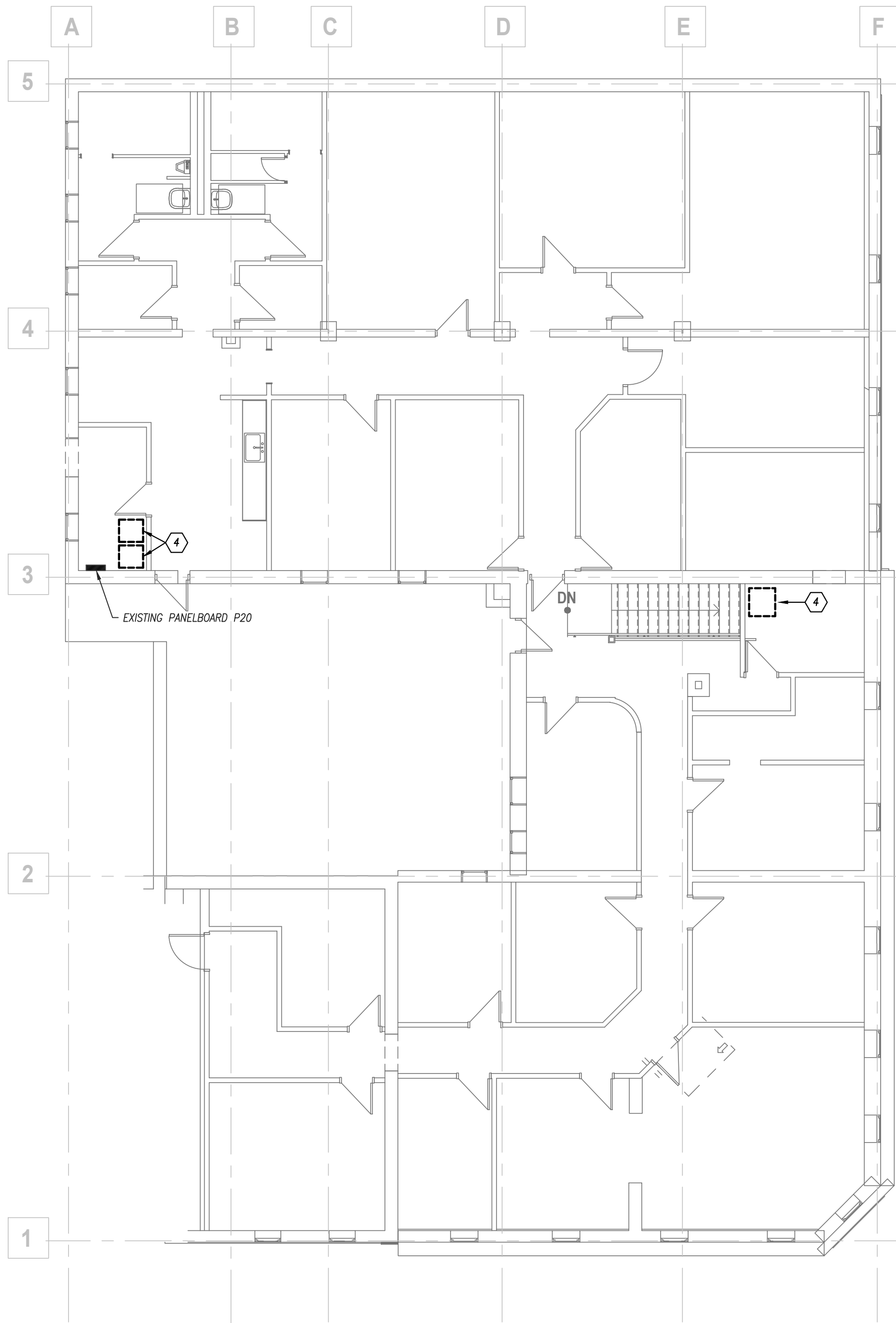
1. REFER TO GENERAL DEMOLITION NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.

DEMOLITION PLAN KEYED NOTES

- 1 REMOVE ALL FIXTURES, EQUIPMENT, AND DEVICES THIS AREA. REMOVE ALL WIRING/CONDUIT AND PIPING TO SAME NOT REQUIRED TO REMAIN.
- 2 REMOVE PANELBOARD AND MAINTAIN EXISTING CIRCUITS TO REMAIN. INCEPT AND EXTEND EXISTING BRANCH CIRCUITS NEW PANELBOARD IN NEW LOCATION. REFER TO NEW WORK DRAWINGS FOR MORE INFORMATION.
- 3 REMOVE EXISTING PANELBOARD. REMOVE FEEDERS AND BRANCH CIRCUITS TO SAME.
- 4 EXISTING FURNACE TO BE REPLACED. MAINTAIN EXISTING WIRING/CONDUIT TO RECONNECT TO NEW FURNACE.



1ST FLOOR PLAN - ELECTRICAL DEMOLITION
1/8" = 1'-0"

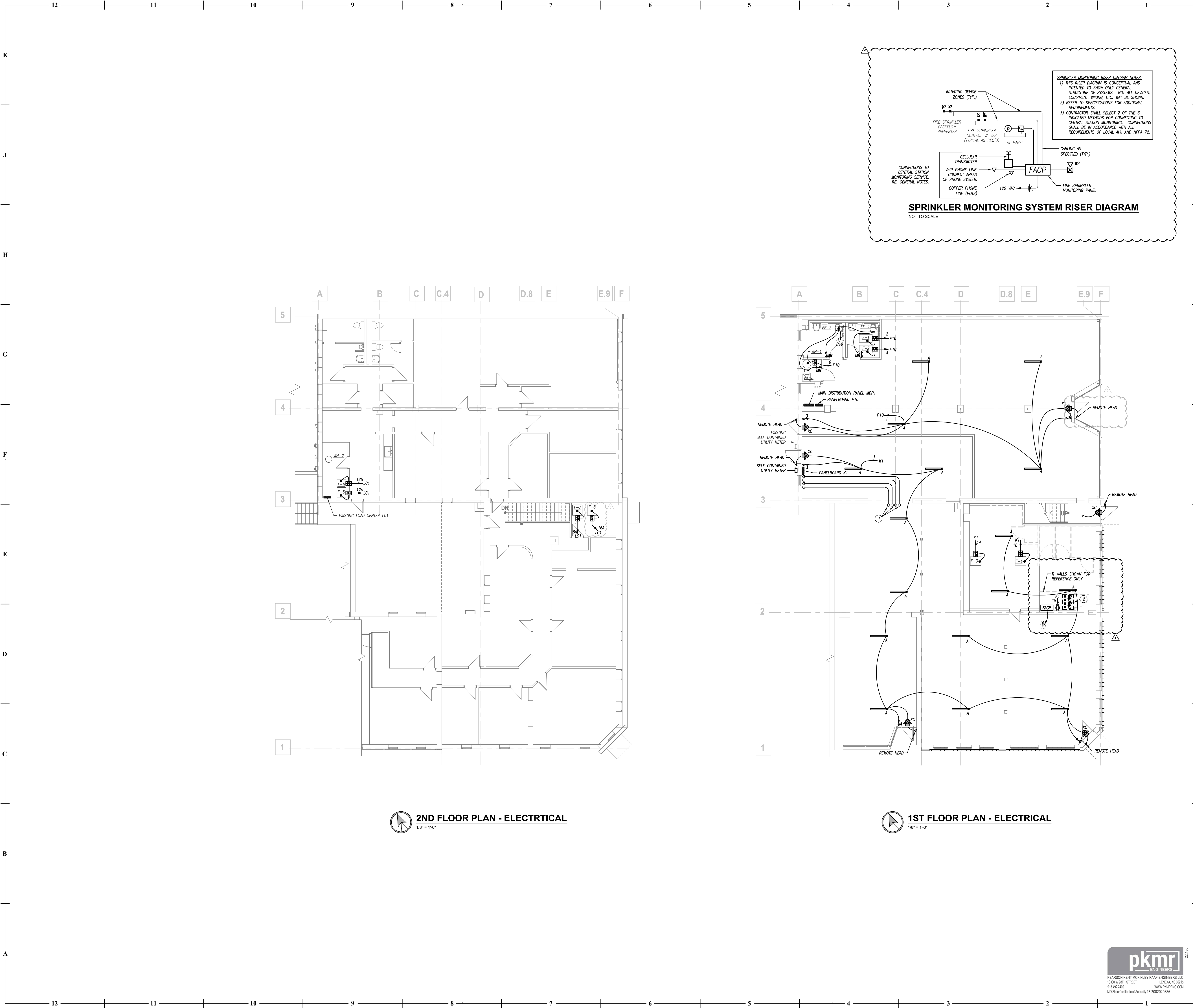


2ND FLOOR PLAN - ELECTRICAL DEMOLITION
1/8" = 1'-0"



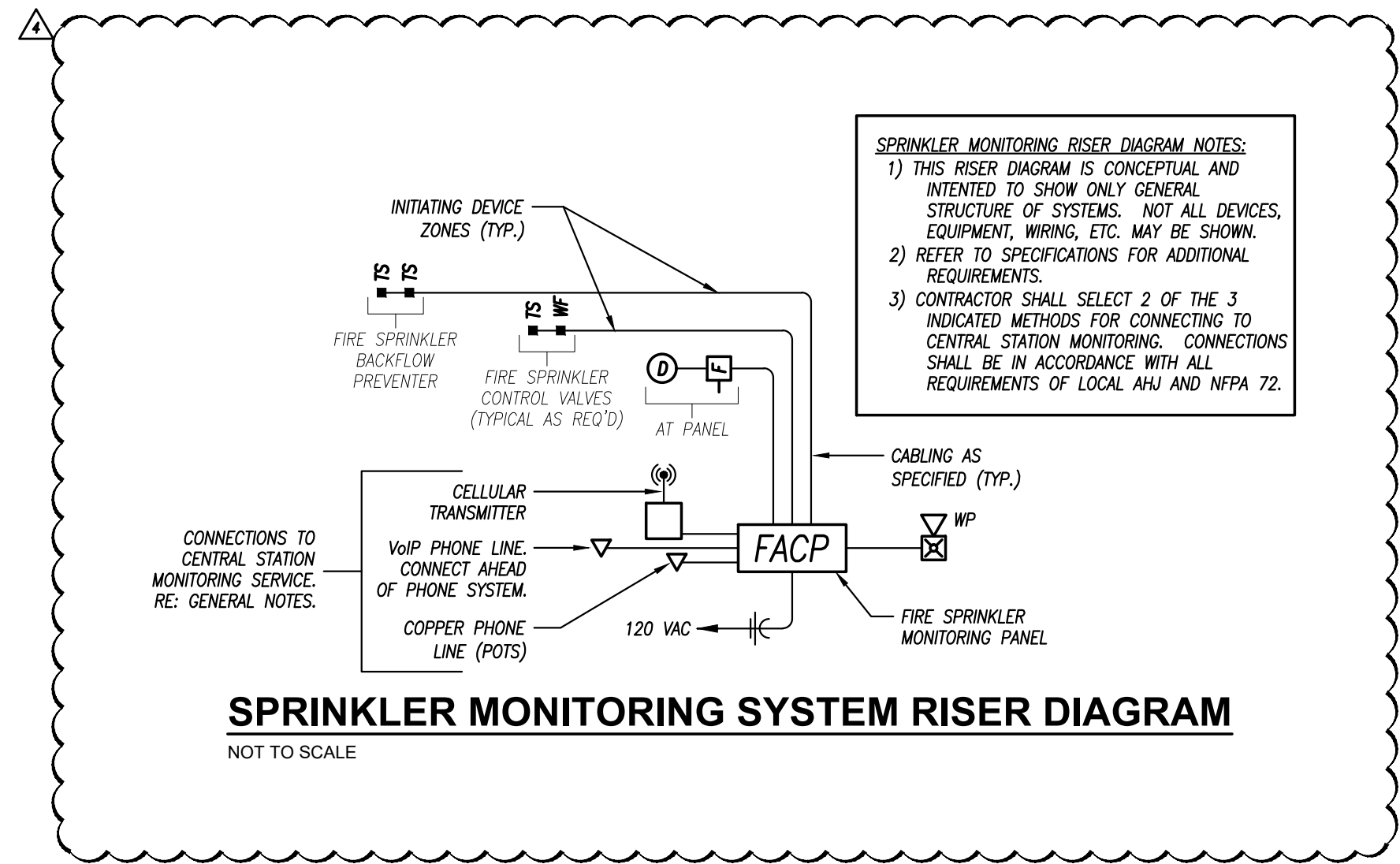
PEARSON KENT MCKINLEY RAAP ENGINEERS, LLC
1300 W 96TH STREET
LENDIA, KS 66215
913.482.2403 WWW.PKMRNG.COM
MO State Certificate of Authority #E-0000020886

ELECTRICAL DEMOLITION -
FLOOR PLANS



2ND FLOOR PLAN - ELECTRICAL
1/8" = 1'-0"

1ST FLOOR PLAN - ELECTRICAL
1/8" = 1'-0"



GENERAL LIGHTING NOTES

1. REFER TO GENERAL NOTES ON MEP COVER SHEET FOR ADDITIONAL REQUIREMENTS OF WORK.
2. LIGHT FIXTURES INDICATED AS EMERGENCY FIXTURES ARE TO FUNCTION AS NIGHT LIGHTS UNLESS SPECIFICALLY SHOWN SWITCHED.
3. ALL CIRCUITING SHOWN ON THIS PLAN IS DIAGRAMMATIC.
3.1. ALL FIXTURES SHALL BE FED FROM JUNCTION BOXES WITH LIGHT FIXTURE WIRING (LFI). DASH-DRAWING OF FIXTURES IS NOT ALLOWED.
3.2. SWITCH BOX LOCATIONS SHALL BE WIRED SO THAT A NEUTRAL WIRE IS AVAILABLE AT THE SWITCH BOX LOCATION, EITHER IN THE BOX OR AVAILABLE TO BE ADDED VIA RACEWAY OR AN ACCESSIBLE WALL CAVITY.
3.3. WALL SWITCHES FOR SEPARATE LOAD TYPES (CM/NORMAL, 120/277V, ETC.) SHALL NOT BE IN A SINGLE BOX.
3.4. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ELECTRICAL PLAN KEYED NOTES

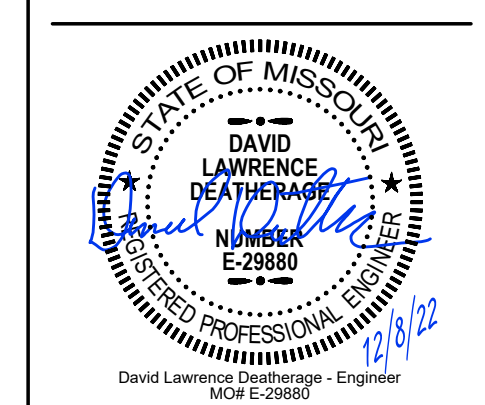
1. PROVIDE (3) 2" CONDUIT AND (1) 1" CONDUIT WITH PULL STINGS FOR FUTURE MECHANICAL EQUIPMENT. ROUTE CONDUIT TO TOP OF CEILING AND TURN UP THROUGH CEILING PATCH ALL PENETRATIONS WATERTIGHT. CAP CONDUIT AT BOTH ENDS FOR FUTURE USE.
2. COORDINATE EXACT NUMBER AND LOCATION OF TAMPER AND FLOW SWITCHES REQUIRED WITH FIRE SPRINKLER CONTRACTOR. WIRE SAME TO FIRE ALARM SYSTEM.

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City Comments	05/17/22
ASH-01	08/05/22
Owner Revision	12/08/22



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COLLINS WEBB #: 21121

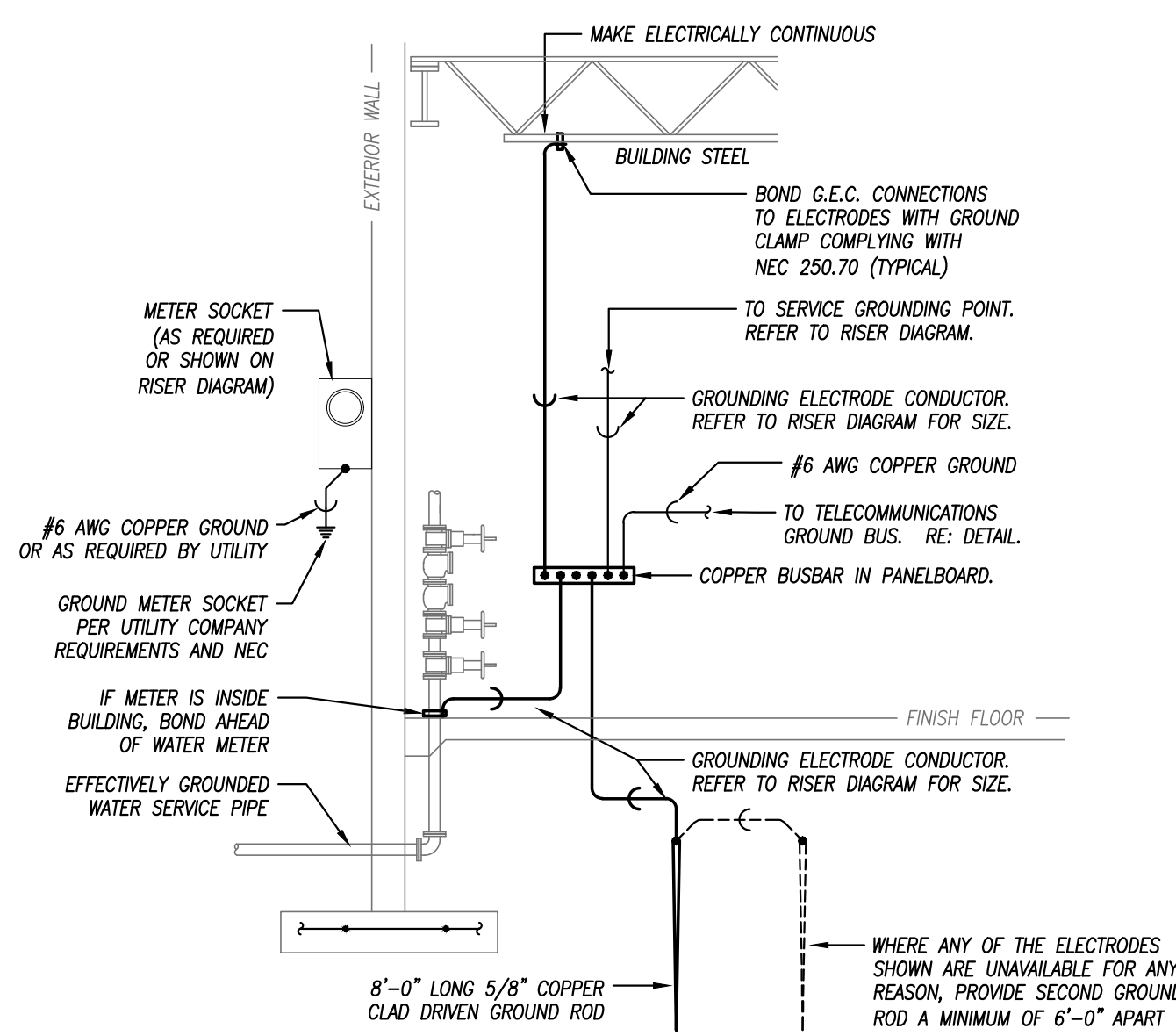
ELECTRICAL - FLOOR PLANS



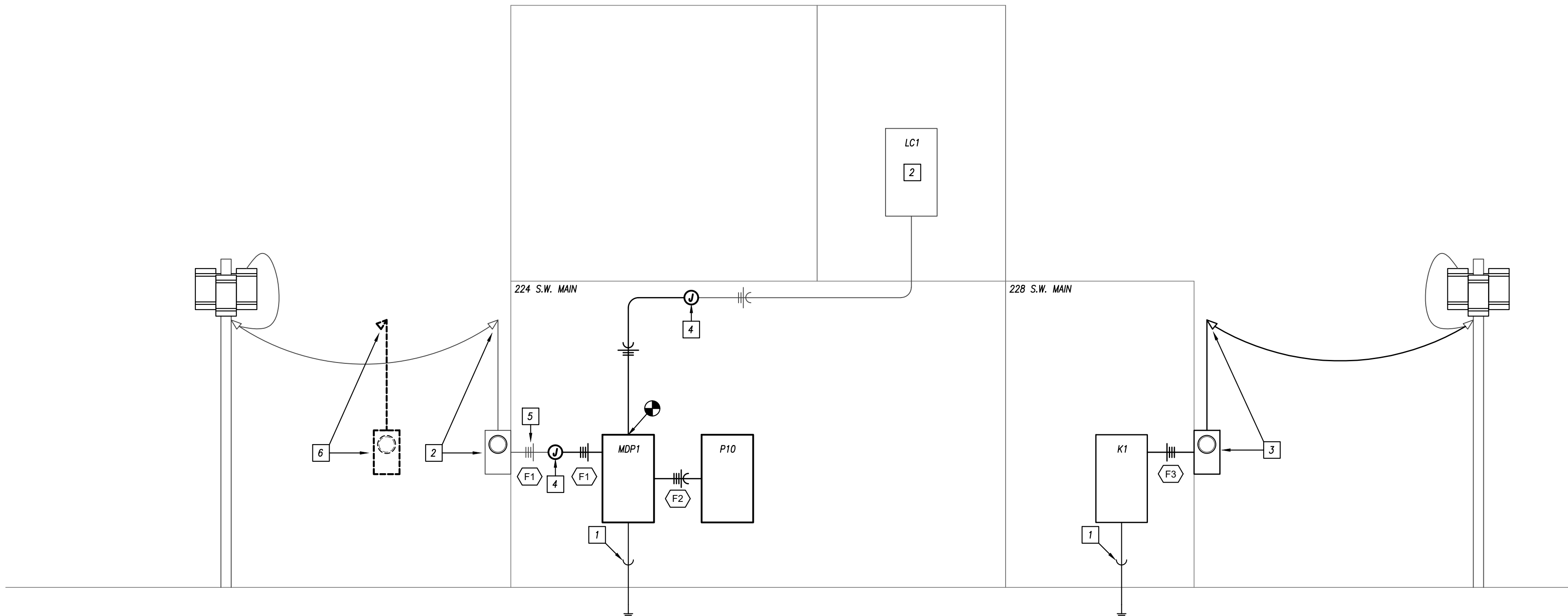
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ELECTRICAL SERVICE GROUNDING DETAIL
NOT TO SCALE



ELECTRICAL RISER DIAGRAM
NOT TO SCALE

RISER DIAGRAM KEYED NOTES

- 1 #1/0 GROUNDING ELECTRODE IN 1" CONDUIT.
- 2 EXISTING TO REMAIN.
- 3 PROVIDE METER AND WEATHERHEAD PER EVERY STANDARDS.
- 4 INTERCEPT AND EXTEND FEEDER TO NEW MDP LOCATION.
- 5 FIELD VERIFY FEEDER SIZE.
- 6 REMOVE EXISTING ELECTRICAL SERVICE.

SINGLE-SECTION PANELBOARD SCHEDULE											
PANEL DESIGNATION: K1						MAIN LUG AMPS: 400 MAIN BREAKER: 400 VOLTAGE: 208/120 PHASE/WIRE: 3Ø, 4W					
MOUNTING: SURFACE LOCATION: FUTURE TENANT S-100						SCCR RATING (AIC): 22,000					
DESCRIPTION	PHASE			C/B	POLE	CIRCUIT #	PHASE			C/B	POLE
	A	B	C				A	B	C		
LTS: FUTURE TENANT S-100	546	-	-	20	1	1	20	1	3	4	3
SPARE	-	-	-	20	1	4	3459	3459	3459	3459	3459
SPARE	-	-	-	20	1	5	-	-	-	-	-
SPARE	-	-	-	20	1	6	-	-	-	-	-
SPARE	-	-	-	20	1	7	-	-	-	-	-
SPARE	-	-	-	20	1	8	-	-	-	-	-
SPARE	-	-	-	20	1	9	3459	3459	3459	3459	3459
SPARE	-	-	-	20	1	10	-	-	-	-	-
SPARE	-	-	-	20	1	11	-	-	-	-	-
SPARE	-	-	-	20	1	12	-	-	-	-	-
SPARE	-	-	-	20	1	13	1920	1920	1920	1920	1920
SPARE	-	-	-	20	1	14	-	-	-	-	-
SPARE	-	-	-	20	1	15	1516	1516	1516	1516	1516
SPARE	-	-	-	20	1	16	-	-	-	-	-
SPARE	-	-	-	20	1	17	1718	1718	1718	1718	1718
SPARE	-	-	-	20	1	18	-	-	-	-	-
SPARE	-	-	-	20	1	19	2020	2020	2020	2020	2020
SPARE	-	-	-	20	1	20	-	-	-	-	-
SPARE	-	-	-	20	1	21	2122	2122	2122	2122	2122
SPARE	-	-	-	20	1	22	-	-	-	-	-
SPARE	-	-	-	20	1	23	2324	2324	2324	2324	2324
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SPARE	-	-	-	20	1	28	-	-	-	-	-
SPARE	-	-	-	20	1	29	2930	2930	2930	2930	2930
SPARE	-	-	-	20	1	30	-	-	-	-	-
SPARE	-	-	-	20	1	31	3132	3132	3132	3132	3132
SPARE	-	-	-	20	1	32	-	-	-	-	-
SPARE	-	-	-	20	1	33	3334	3334	3334	3334	3334
SPARE	-	-	-	20	1	34	-	-	-	-	-
SPARE	-	-	-	20	1	35	3536	3536	3536	3536	3536
SPARE	-	-	-	20	1	36	-	-	-	-	-
SPARE	-	-	-	20	1	37	3738	3738	3738	3738	3738
SPARE	-	-	-	20	1	38	-	-	-	-	-
SPARE	-	-	-	20	1	39	3940	3940	3940	3940	3940
SPARE	-	-	-	20	1	40	-	-	-	-	-
SPARE	-	-	-	20	1	41	4142	4142	4142	4142	4142
SPARE	-	-	-	20	1	42	-	-	-	-	-
SPARE	-	-	-	20	1	43	4344	4344	4344	4344	4344
SPARE	-	-	-	20	1	44	-	-	-	-	-
SPARE	-	-	-	20	1	45	4546	4546	4546	4546	4546
SPARE	-	-	-	20	1	46	-	-	-	-	-
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SPARE	-	-	-	20	1	48	-	-	-	-	-
SPARE	-	-	-	20	1	49	4950	4950	4950	4950	4950
SPARE	-	-	-	20	1	50	-	-	-	-	-
SPARE	-	-	-	20	1	51	5152	5152	5152	5152	5152
SPARE	-	-	-	20	1	52	-	-	-	-	-
SPARE	-	-	-	20	1	53	5354	5354	5354	5354	5354
SPARE	-	-	-	20	1	54	-	-	-	-	-
SPARE	-	-	-	20	1	55	5556	5556	5556	5556	5556
SPARE	-	-	-	20	1	56	-	-	-	-	-
SPARE	-	-	-	20	1	57	5758	5758	5758	5758	5758
SPARE	-	-	-	20	1	58	-	-	-	-	-
SPARE	-	-	-	20	1	59	5960	5960	5960	5960	5960
SPARE	-	-	-	20	1	60	-	-	-	-	-
LARGE SUB-FED BREAKER						64	3	-	-	-	-
TOTALS						546	0	0	8838	8838	8838

PANELBOARD SIZING LOAD			
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	546	1.25	683
RECEPTACLES	0	10KW + 50% REST	0
MOTORS	3,640	1.25 x LARGEST + 25% OF REST	4,320
AIR CONDITIONING	20,754	1.00	20,754
SPACE HEATING	0	0.00	0
HEAT PUMP	0	1.00	0
CONTINUOUS	0	1.25	0
NON-CONTINUOUS	0	1.00	0
MISC. LOADS 1	0	1.00	0
SIZING LOAD:			25,757
SIZING LOAD (AMPS):			71

CONNECTED PHASE LOADS			
PHASE	VA	AMPS	
A	9,394	78.1	
B	8,638	73.6	
C	6,918	57.6	
TOTALS	25,140	69.8	

REMARKS:

1. EATON POW-R-LINE 1X OR EQUIV.
2. SERVICE ENTRANCE RATED.

MAIN STREET LANDLORD IMPROVEMENTS

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LIGHT FIXTURE SCHEDULE											
FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	ID	WATTS	LED MODULE / DRIVER			DIMMING	VOLTAGE	REMARKS
						LUMENS	CRF	CCT			
A	WILLIAMS	SERIES 755	4"-0" LONG COMMERCIAL-GRADE STROP FIXTURE WITH SQUARE LENS, SURFACE MOUNT, WHITE FINISH.	L65	42	6500	80	3500K	NO	277/120	
XC	DUAL-LITE	EVG SERC	COMBINATION EMERGENCY LIGHTING UNIT / EXIT LIGHT, UN-STABLE THERMOPLASTIC HOUSING, TUNED WHITE, ADJUSTABLE CRystal STYLE LIGHTING, HEADS WITH CLASS LENS FOR EMERGENCY LIGHT, EXIT SIGN TO HAVE RED LETTERS WITH DIRECTIONAL ARROWS AS INDICATED ON THE PLANS, MAINTENANCE-FREE LITHIUM ION PHOSPHATE BATTERY FOR 30 MINUTE OPERATION OF LAMPS AND EXIT SIGN, FINISH WITH CAPACITY FOR REMOTE HEAD, FULLY AUTOMATIC, SOLID-STATE CHARGER WITH TEST SWITCHER AND AG-ON LIGHT.	TOTAL POWER CONSUMPTION = EXERCISE 1/4 HOUR (4) HIGH-OUTPUT EXIT-HROR (4) HIGH-OUTPUT LEDS.		-	-	-	-	277/120	1
		EVO	OUTDOOR REMOTE WITH 2 HEADS, BLACK FINISH.								

REMARKS:

1. FURNISH WITH AND INSTALL ALL NECESSARY HARDWARE AND MOUNTING BRACKETS.

GENERAL NOTES (APPLICABLE TO ALL FIXTURES):

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

2) ALL DRIVERS ARE INTEGRAL TO FIXTURE UNLESS NOTED OTHERWISE. REFER TO SPECIFICATIONS FOR ADDITIONAL FIXTURE/DRIVER/BALLAST REQUIREMENTS.

3) ALL FIXTURES WITH PAINTED METAL PARTS SHALL BE PAINTED AFTER FABRICATION.

4) LUMENS LISTED FOR LED FIXTURES ARE GENERALLY DELIVERED LUMENS UNLESS NOTED OTHERWISE.