

CULINARY ARTS RENOVATION

BG 25-203

RUSSELLVILLE INDEPENDANT SCHOOLS

355 S. SUMMER ST. - RUSSELVILLE, KY 42276

PROJECT TEAM:

- ARCHITECT:

HAWKINS ABNEY, PLLC

1503 N MAIN ST
BEAVER DAM, KY 42320
- STRUCTURAL ENGINEER:

WILKIE STRUCTURAL ENGINEERING, INC.

20 NW 3RD STREET, SUITE 1220 - EVANSVILLE, IN 47708
- MEP ENGINEER:

CMTA, INC.

220 LEXINGTON GREEN CIRCLE, SUITE 600 - LEXINGTON, KY 40503
- KITCHEN DESIGN CONSULTANT:

C&T DESIGN AND EQUIPMENT CO., INC

2102 KOTTER AVENUE, SUITE C - EVANSVILLE, IN 47715



CONCEPTUAL RENDERINGS SHOWN FOR REFERENCE ONLY AND ARE NOT INTENDED TO BE AN EXACT REPRESENTATION OF THE DRAWINGS WITHIN.

PROJECT LOCATION:

RUSSELLVILLE INNOVATION ACADEMY - 1103 N. MAIN ST. - RUSSELLVILLE, KY 42276



PROJECT INFORMATION:

SCOPE OF WORK:

PROJECT CONSIST OF RENOVATING APPROXIMATELY 3,397 SF IN THE RUSSELLVILLE INNOVATION ACADEMY FACILITY TO PROVIDE A NEW CULINARY PROGRAM. RENOVATED SPACE WILL INCLUDE CLASSROOM SPACE, OFFICE SPACE, STORAGE, RESIDENTIAL STYLE KITCHEN EQUIPMENT AND WORKSTATIONS, COMMERCIAL COOKING EQUIPMENT AND WORKSTATIONS, FOOD PREP AREA, AND PANTRY.

DRAWING INDEX:

SHEET INDEX	
Sheet Number	Sheet Name
GENERAL	
T100	TITLE SHEET
G100	GENERAL NOTES
G101	LIFE SAFETY PLAN AND CODE INFORMATION
ARCHITECTURAL	
AD100	ARCHITECTURAL DEMOLITION FLOOR PLAN
A100	FLOOR PLAN
A101	ENLARGED FLOOR PLAN
A300	BUILDING AND WALL SECTIONS
A400	ROOF PLAN
A500	DOOR AND WINDOW DETAILS AND SCHEDULES
A600	REFLECTED CEILING PLAN AND DETAILS
A700	INTERIOR/ FINISH DETAILS
A701	INTERIOR/ FINISH DETAILS
A800	CASEWORK
A801	CASEWORK
A802	CASEWORK
FIRE SUPPRESSION	
F-001	FIRE SUPPRESSION LEGEND
PLUMBING	
PD100	PLUMBING - DEMOLITION - UNDERSLAB - OVERALL PLAN
PD101	PLUMBING - DEMOLITION - UNDERSLAB - ENLARGED FLOOR PLAN
PD200	PLUMBING - DEMOLITION - ABOVE SLAB - OVERALL PLAN
PD201	PLUMBING - DEMOLITION - ABOVE SLAB - ENLARGED FLOOR PLAN
PD300	PLUMBING - DEMOLITION - ROOF PLAN
P000	PLUMBING LEGEND
P100	PLUMBING - NEW WORK - UNDERSLAB - PLAN
P101	PLUMBING - NEW WORK - UNDERSLAB - ENLARGED FLOOR PLAN
P200	PLUMBING - NEW WORK - ABOVE SLAB - OVERALL PLAN
P201	PLUMBING - NEW WORK - ABOVE SLAB - ENLARGED FLOOR PLAN
P300	PLUMBING - NEW WORK - ROOF PLAN
P400	PLUMBING - DETAILS, SCHEMATICS, AND SCHEDULES
ELECTRICAL	
EU100	ELECTRICAL SITE UTILITY PLAN
E000	ELECTRICAL LEGEND
E100	LIGHTING - NEW WORK - OVERALL PLAN
E200	POWER - NEW WORK - OVERALL PLAN
E300	MECHANICAL POWER - NEW WORK - OVERALL PLAN
E400	MECHANICAL POWER - NEW WORK - ROOF PLAN
E500	SYSTEMS - NEW WORK - OVERALL PLAN
E600	ELECTRICAL DETAILS
E601	ELECTRICAL DETAILS
E700	ONE-LINE DIAGRAM
E800	ELECTRICAL SCHEDULES
E801	ELECTRICAL SCHEDULES
TOTAL NUMBER OF SHEETS: 40	

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HAWKINS ABNEY
PLLC

RUSSELLVILLE INDEPENDANT SCHOOLS
CULINARY ARTS RENOVATION
FOR CONSTRUCTION

DATE: 8/25
PROJECT NO: 25-203
DRAWN BY: MKW

REVISION: DATE

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DO NOT SCALE DRAWINGS

TITLE SHEET

SHEET NO.

T100

ABBREVIATIONS:

A.	@ & A/C ADM ADI ADH. AEST. AGG. AHJ ALUM. APPROX. AUTO	AT AND AIR ALUMINUM COMPOSITE MATERIAL AMERICANS WITH DISABILITIES ACT ADJUST / ADJUSTABLE ADHERED / ADHESIVE ABOVE FINISH FLOOR AGGREGATE AIR HANDLING UNIT ALUMINUM APPROXIMATE AUTOMATIC / AUTOMATED	K. KBC	KENTUCKY BUILDING CODE
B.	BD. BLK. BLKG. BLKHD BN BRG.	BOARD BLOCK BLOCKING BLUHHOOD BULLNOSE BEARING	L. L LAM LF LH LOC. LOC. LTP LVP LVT	ANGLE OR LONG LAMINATE LIGHT FIXTURE OR LINEAR FEET LEFT HAND LOCATION OR LOCATED LIGHT LAMINATED VINYL PLANK LAMINATED VINYL TILE
C.	CAB CARP. C/C C/T CF C.I. C.J. C/LG. CLR. CMU COL. CONC. CONST. CONT. CU CW CY.	CABINET CARPET OR CARPET TILE CENTER TO CENTER (SAME AS O/C) CERAMIC TILE CUBIC FEET CAST IRON CONTROL JOINT CEILING CLEAR CONCRETE MASONRY UNIT COLUMN CONCRETE CONSTRUCTION CONTINUOUS CUBIC COLDWATER / CLOCKWISE COLD YARD	M. MATL. MAX. MB. MECH. MED. MFL MFR. MNL. MNSC. M.O. M.T. MTD. MTRG. MULL	MATERIAL MAXIMUM MARKER BOARD MECHANICAL MEDIUM METAL MANUFACTURER MINOR MINIMUM MISSCELLANEOUS MASONRY OPENING MOUNT MOUNTED MEETING MULLION
D.	DBL DEP. DET. D.F. DIA. DIM. DN DS. DWG	DOUBLE DEPRESSED DETAIL DRINKING FOUNTAIN DIAMETER DIMENSION DOWN DOWNSPOUT DRAWING(S)	N. NA NDC NO. / # NOML. NOT TO SCALE	NOT APPLICABLE NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE
E.	EA. E.J. ELEV. ELEC. EMER. ENCL. ENT. EQ. EXIST. EXP. EXT.	EACH EXPANSION JOINT ELEVATION ELECTRIC OR ELECTRICAL EMERGENCY ENCLOSURE OR ENCLOSED ENTRANCE EQUAL EXISTING EXPANSION EXTERIOR	O. O.C. O.D. O.F. O/I O/H O/H O/PF.	ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OWNER FURNISHED AND INSTALLED OWNER FURNISHED CONTRACTOR INSTALLED OVERHEAD OPPOSITE
F.	F.D. FDM. F.A. F.A.C. F.F.E. F.N. FL. FLASH. FLEX. F.R.T. FTG. FURR. F.V.	FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISHED FLOOR ELEVATION FULL HEIGHT FINISH OR FINISHED FLOOR FLASHING FLEXIBLE FIRE RETARDANT TREATED FOOTING FURNISHING FIELD VERIFY	P. PC PERF. PERF. PERP. PLYWD. POL. POLY PREFAB. PROJ. PAIR P.T. PVC PWMT. "-" Q.	POURED CONCRETE PERFORATED PERIMETER PERPENDICULAR PLYWOOD POLISHED CARB POLYCARBONATE PREFABRICATED PROJECT OR PROJECTED PAIR PRESSURE TREATED POLYVINYL CHLORIDE PAVEMENT PLUS OR MINUS
G.	GA. GALV. G.B. GEN. GFI GL GLUE LAM GR. GYP.	GAUGE GALVANIZED GRAB BAR GENERAL OR GENERATOR GROUND FAULT INTERRUPT GLASS OR GLAZING GLUE LAMINATED GRADE GYPSUM	R. R RCP RD REBAR REF REF. REINFC. REQ'D ROW S.	RADIUS REFLECTED CEILING PLAN ROOF DRAIN REINFORCING BAR REFERENCE OR REFER REFRIGERATOR REINFORCED REQUIRED RIGHT OF WAY SCHEDULE
H.	H.B. H.C. HHR. HWD. HLD. YD. HEX. HT. HM HOB. HP HTG. HTR. HW	HOSE BIB HOLLOW CORE OR HANDICAPPED HEADER HARDWARE HARDWOOD HEXAGONAL HEIGHT HOLLOW METAL HORIZONTAL HORSEPOWER HEATING HEATER HOT WATER	Q.T. Q.T. R RCP RD REBAR REF REF. REINFC. REQ'D ROW S. SCHD. SCT. SF SHI. SIM. S.M. SPEC. S.S. STD STL STOR. STRUCT. SUSP.	QUARRY TILE QUARRY TILE RADIUS REFLECTED CEILING PLAN ROOF DRAIN REINFORCING BAR REFERENCE OR REFER REFRIGERATOR REINFORCED REQUIRED RIGHT OF WAY SCHEDULE SECTION SQUARE FOOT SHEET SIMILAR SHEET METAL SPECIFICATIONS STAINLESS STEEL STANDARD STEEL STORAGE STRUCTURAL SUSPENDED
I.	ID IF INCL. INSUL. INT. INV.	INSIDE DIAMETER INSIDE FACE INCLUDED INSULATED INTERIOR INVERT	T. TB TG TAG THK. T.O. TOL T.O.M. T.O.S. T.O.W. TYP.	TACKBOARD TOP OF CURB TONGUE AND GROOVE THICK OR THICKNESS TOP OF TOILET TOP OF MASONRY TOP OF STEEL TOP OF WALL TYPICAL
J.	JB JST. JT.	JUNCTION BOX JOIST JOINT	U. UL UNFIN. U.O. V. VB VCT VERT. V.J.F. YD	UNDERGROUND UNDERWRITERS LABORATORY UNFINISHED UNFINISHED UNLESS NOTED OTHERWISE VAPOR BARRIER VINYL COMPOSITION TILE VERTICAL VERIFY IN FIELD YARD

SYMBOLS LEGEND:

WALL TAG (SEE WALL TYPE SCHEDULE)	
WINDOW TAG (SEE WINDOW SCHEDULE)	
DOOR TAG (SEE DOOR SCHEDULE)	
DEMOLITION TAG (SEE DEMOLITION SHEETS)	
CEILING TAG (SEE RCP SHEETS)	
ROOM TAG (NAME AND NUMBER)	
ELEVATION MARK	
CENTERLINE	
BUILDING SECTION	
WALL SECTION	
BUILDING ELEVATION	
INTERIOR ELEVATION	
VIEW NAME	
VISUAL DISPLAY BOARD TAG	

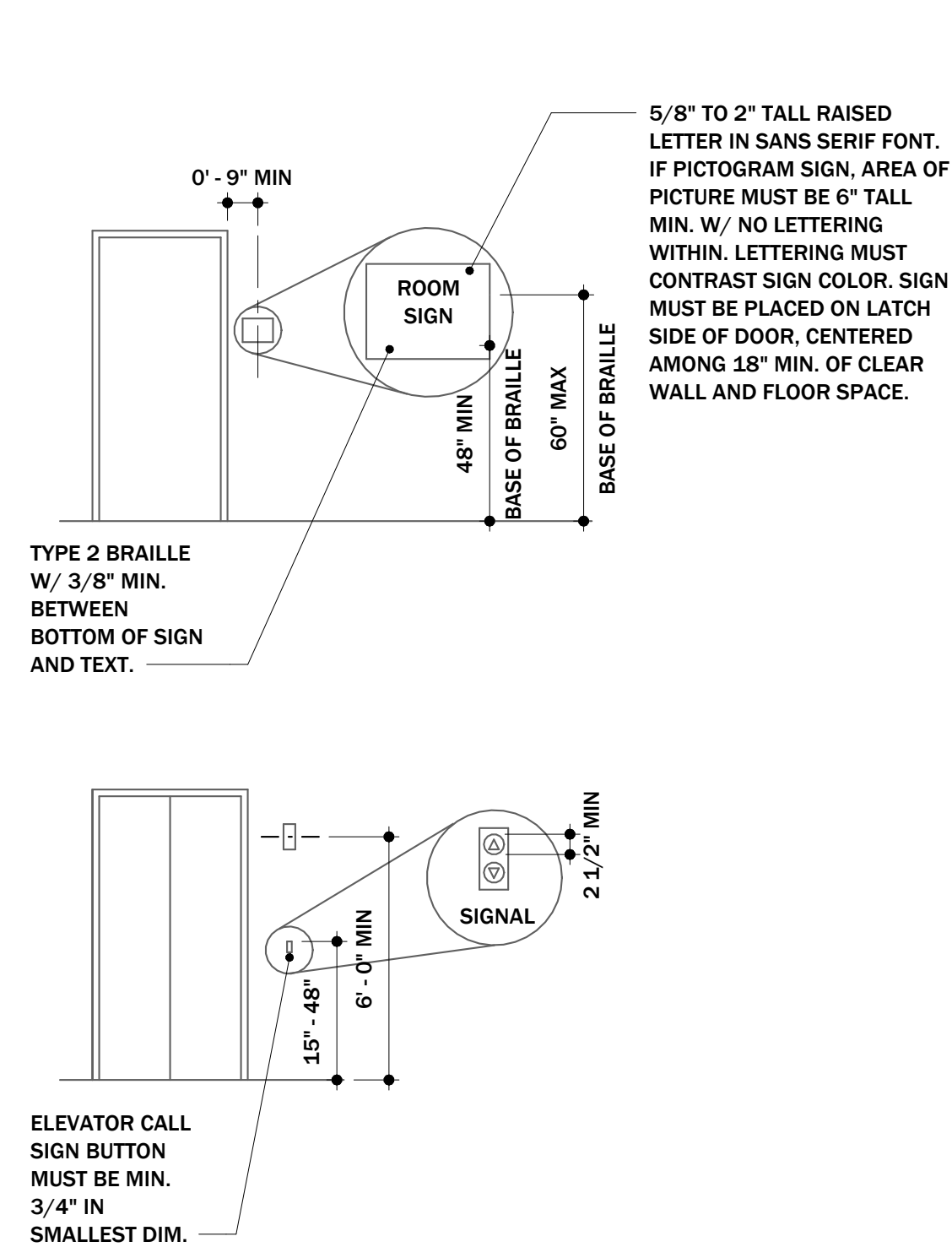
CONTRACTOR NOTES:

- THE GENERAL CONTRACTOR SHALL GUARANTEE THE WORK FOR ONE (1) YEAR AFTER SUBSTANTIAL COMPLETION OF THE PROJECT. THIS DOES NOT LIMIT THE WARRANTIES OF SPECIFIC MATERIALS OR SYSTEMS HEREIN.
- UPON COMPLETION OF WORK AND BEFORE FINAL PAYMENT TO THE CONTRACTOR IS TO BE MADE, THE GENERAL CONTRACTOR SHALL SUPPLY TO THE OWNER ALL WARRANTY INFORMATION OF MATERIALS AND SYSTEMS INSTALLED BY THE GENERAL CONTRACTOR OR THEIR SUBCONTRACTORS, INCLUDING ANY AND ALL OPERATIONS / MAINTENANCE MANUALS.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A REDLINED AS-BUILT DRAWINGS DENOTING ALL REVISIONS AND FINAL INFORMATION OF WORK INCLUDED WITHIN THIS PROJECT.
- THE GENERAL CONTRACTOR AND/OR SUBCONTRACTORS SHALL GIVE ALL NOTICES AND COMPLY WITH ANY AND ALL RELATIVE NATIONAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS. IF A DISCREPANCY IS OBSERVED BETWEEN THE DRAWINGS AND SPECIFICATIONS AND SAID LAWS, PROMPTLY NOTIFY THE ARCHITECT WHO SHALL DIRECT POSSIBLE CHANGES REQUIRED.
- SHOULD THE CONTRACTOR KNOWINGLY PERFORM ANY WORK WHICH IS CONTRARY TO APPLICABLE CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS, HE/SHE SHALL PROMPTLY MAKE THE REQUIRED CHANGES AND BEAR ALL COSTS.
- THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR THE INSPECTIONS NECESSARY FOR OBTAINING A CERTIFICATE OF OCCUPANCY AND SHALL BE RESPONSIBLE FOR THE ACQUISITION OF AGENCY APPROVALS, PERMITS, AND CONTROLLED INSPECTIONS.
- THE GENERAL CONTRACTOR, THEIR SUBCONTRACTORS, AND VENDORS SHALL BE RESPONSIBLE FOR ALL THE MEANS AND METHODS REQUIRED TO ACHIEVE A COMPLETED PROJECT AND EXECUTE THE DESIGN INTENT WITHIN THESE DOCUMENTS. ANY QUESTIONS SHALL BE DIRECTED TO THE ARCHITECT. ANY STAGING OR METHODS INCLUDING IN THESE DOCUMENTS ARE FOR REFERENCE AND SUGGESTION ONLY.
- THE GENERAL CONTRACTOR SHALL FURNISH ALL MATERIALS & EQUIPMENT SHOWN WITHIN THE DOCUMENTS UNLESS OTHERWISE AGREED UPON, AND SHALL INCLUDE ALL MATERIALS, EQUIPMENT, AND TOOLS ACCORDINGLY PER CONTRACTORS CHOSEN MEANS AND METHODS. THIS SHALL ALSO INCLUDE CONCEALED BLOCKING AS REQUIRED FOR THE INSTALLATION OR SUPPORT OF INSTALLED TVS, EQUIPMENT, BRACKETS, FIXTURES, WINDOWS, ETC.
- CONTRACTORS SHALL BE RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS AND LAYOUT OF WORK. ERRORS RESULTING FROM NEGLECTING EXISTING CONDITIONS SHALL NOT BE CONSIDERED A BASIS FOR A CHANGE ORDER OR ADDITIONAL COMPENSATION IN THE FORM OF FEE OR CONTRACT TIME.
- THE COMMENCEMENT OF WORK SHALL BE CONSIDERED AS AN ACCEPTANCE OF EXISTING CONDITIONS OR WORK PERFORMED BY THE SAME TRADE OR DIFFERENT. FAILURE TO NOTIFY THE ARCHITECT OF UNACCEPTABLE OR NONCOMPLIANT CONDITIONS MAY RESULT IN A GENERAL REQUEST OF CHANGE ORDER FOR TIME AND/OR FEE AND THE CONTRACTOR MAY BE RESPONSIBLE FOR THE COSTS INCURRED TO CORRECT SAID CONDITIONS. DO NOT PROCEED WITH WORK UNTIL ANY UNSATISFACTORY CONDITIONS HAVE BEEN ADDRESSED.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL TAKE PRECEDENT OVER SCALED DIMENSIONS. NOTIFY THE ARCHITECT OF QUESTIONS OR DISCREPANCY PRIOR TO WORK. ALL DIMENSIONS SHOWN ARE TO FACE OF FOUNDATION AND/OR FACE OF STUD (FRAMING) UNLESS NOTED OTHERWISE.
- UNLESS OTHERWISE INDICATED WITHIN THESE DOCUMENTS, NO KNOWN PRESENCE OF HAZARDOUS MATERIALS EXIST WITHIN THIS PROJECT. IN THE EVENT OF THEIR DISCOVERY, WORK IN THE SUSPECTED AREA IS TO STOP IMMEDIATELY AND THE ARCHITECT IS NOTIFIED SO THAT STEPS MAY BE TAKEN TO APPROPRIATELY REMEDIATE AND / OR DISPOSE OF SAID MATERIALS IN A LEGAL MANNER.

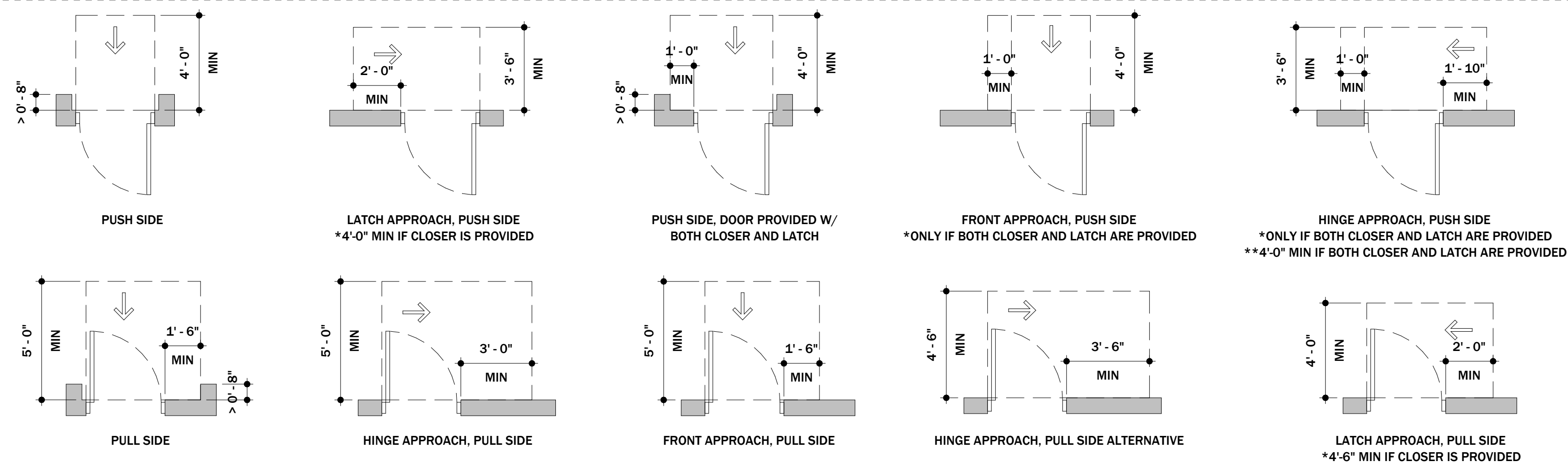
ARCHITECT NOTES:

- THE DRAWINGS AND SPECIFICATIONS (IF APPLICABLE) ARE INTENDED TO BE COMPLEMENTARY OF EACH OTHER. EACH CONTAINING IMPORTANT INFORMATION RELATING TO DESIGN INTENT, MATERIALS, FINISHES, SYSTEMS, OR REQUIREMENTS - AND MAY BE INCLUDED IN EITHER OR BOTH, IN THE EVENT OF AN OMISSION FROM ONE OR A DISCREPANCY AMONGST THE TWO, THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR CLARIFICATION AS ONE IS NOT GUARANTEED TO TAKE PRECEDENT OVER THE OTHER.
- THE ARCHITECT SHALL BE NOTIFIED OF ANY APPARENT DISCREPANCY, CONFLICT, ERROR, OR OMISSION WITHIN THESE DOCUMENTS, OR THE DISCOVERY OF ANY EXISTING CONDITION THAT IS DIFFERENT THAN THOSE IDENTIFIED WITHIN. THE ARCHITECT SHALL PROVIDE FINAL INTERPRETATION OF ALL INCLUDED DOCUMENTS AND IF NECESSARY, PROVIDE REVISIONS TO THE CONSTRUCTION DRAWINGS. FAILURE OF NOTIFICATION MAY RESULT IN CONTRACTORS' EXPENSE.
- THE DRAWINGS AND SPECIFICATIONS ARE CREATED TO DISPLAY A DESIGN INTENT AND THEREFORE MAY NOT SPECIFICALLY DETAIL EVERY CONDITION WITHIN. DIRECT ALL QUESTIONS TO THE ARCHITECT. OTHERWISE PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, FABRICATION, AND INSTALLATION AS REQUIRED TO PRODUCE A COMPLETED, COMPLIANT, AND FULLY FUNCTIONAL PROJECT. IT IS EXPECTED FOR ALL WORK TO BE OF A SIMILAR STANDARD, METHOD, OR INDUSTRY STANDARD.
- FAILURE TO EXECUTE THE DESIGN INTENT OUTLINED IN THESE DOCUMENTS, WHETHER KNOWINGLY OR NOT, MAY AT THE DISCRETION OF THE ARCHITECT, RENDER THESE DOCUMENTS AND THE ARCHITECT'S PROFESSIONAL RESPONSIBILITY AND LIABILITY ENTIRELY NULL, VOID, AND TERMINATED.
- THE ARCHITECT IS IN NO WAY RESPONSIBLE FOR FEES, LOSS OF TIME, OR LEGAL PENALTIES FOR ANY DEVIATION OF THE DOCUMENTS HEREIN.
- THE ARCHITECT IS IN NO WAY RESPONSIBLE FOR JOB SITE SAFETY OR MAINTENANCE OR COMPLIANCE AMONG ANY RELATIVE GOVERNING BODY.

SIGNAGE:

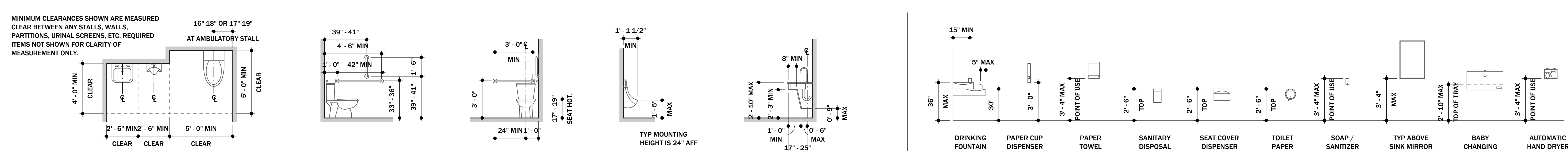


ADA DOOR CLEARANCES (PER ICC A117.1-2009 CHAPTER 4) :



UNLESS SPECIFICALLY DIMENSIONED OTHERWISE WITHIN THESE DRAWINGS, PROVIDE PER MINIMUM CLEARANCES AS FOLLOWS.

ADA RESTROOMS:



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RUSSELLVILLE INDEPENDANT SCHOOLS
RENOVATION
RUSSELLVILLE, KY

NOT FOR CONSTRUCTION

DATE: 8/25
PROJ: 4-23
DRAWN BY: MKS
REVISION: DATE
SHEET NO. G100

GENERAL:		
OCCUPANCY CLASSIFICATION	E - EDUCATIONAL	
CONSTRUCTION TYPE	IIB	FULLY-SPRINKLERED
ALLOWABLE HEIGHT & AREA	NO SQUIRE FOOTAGE HAVE BEEN ADDED OR REMOVED FROM THE EXISTING STRUCTURES.	

APPLICABLE CODES:	
• 2018 KENTUCKY BUILDING CODE (KBC) (BASED ON 2015 INTERNATIONAL BUILDING CODE (IBC))	
• KENTUCKY PLUMBING CODE, LATEST EDITION	
• 2009 ICC/ANSI A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES	
• KENTUCKY STANDARDS OF SAFETY	
• 2012 INTERNATIONAL FIRE CODE (IFC)	
• 2012 INTERNATIONAL FIRE CODE FOR PORTABLE FIRE EXTINGUISHERS, SECTION 906	
• 2012 INTERNATIONAL ENERGY CONSERVATION CODE (FOR USE WITH THE KENTUCKY BUILDING CODE)	
• 2015 INTERNATIONAL MECHANICAL CODE	
• 2013 NFPA 13 - SPRINKLER SYSTEMS	
• 2017 NFPA 70 - NATIONAL ELECTRIC CODE	
• 2013 NFPA 72 - FIRE ALARM	
• UNITED LABORATORIES (UL)	
• STANDARDS FOR FIRE RESISTANT CONSTRUCTION	
• AMERICAN STANDARDS AND TESTING METHODS (ASTM)	

OCCUPANT LOAD CALCULATION:				
OCCUPANCY CLASSIFICATION	NOTES	AREA	LOAD FACTOR	OCCUPANT LOAD
E - CLASSROOM		842 SF	20 NET	42 PERSONS
E - VOCATIONAL ROOM		1032 SF	50 NET	20 PERSONS
ACCESORY STORAGE AND MECHANICAL EQ ROOM		515 SF	300 GROSS	2 PERSONS
B - OFFICE		120 SF	100 GROSS	1 PERSONS
TOTAL:		2454 SF		65 PERSONS


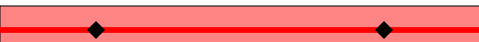

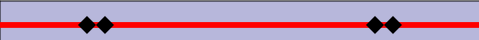


EGRESS	
PATH OF EGRESS	DISTANCE
1	64' - 10 1/8"
2	69' - 8 3/8"

FIXTURE COUNT:	
NO RESTROOM PLUMBING FIXTURES HAVE BEEN ADDED OR REMOVED TO THE EXISTING PLAN.	

GENRAL NOTE:

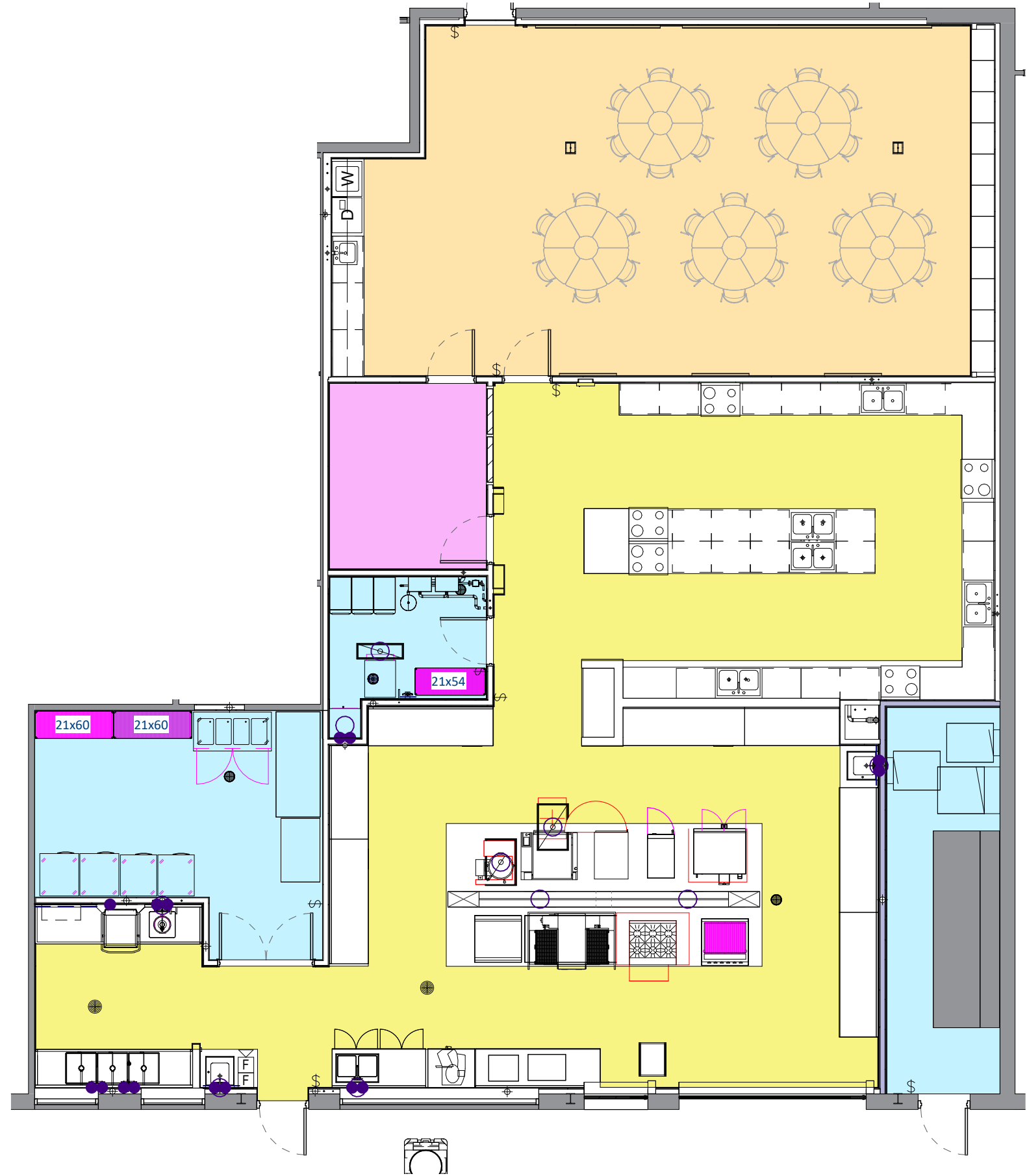
ALL FINAL FIRE RATINGS OF INTERIOR ASSEMBLIES, EGRESS, PLUMBING FIXTURE COUNTS, OCCUPANCY, AND OCCUPANT LOAD TO BE DETERMINED DURING TENANT OCCUPATION AND BUILD OUT AND TO BE PROVIDED IN NEW SET OF DRAWINGS FOR LATER PHASES.

CURRENT INTERIOR PARTITION WALL SHOWN FOR REFERENCE ONLY OF POTENTIAL TENANT LAYOUT AND DOES NOT INDICATE FINAL LOCATION, WALL TYPE, OR FIRE RATINGS (WHERE REQUIRED).

FIRE RESISTIVE WALL LEGEND	
	NOT RATED
	1-HR RATED
	1-HR RATED, SMOKE BARRIER
	2-HR RATED
	3-HR RATED
	4-HR RATED



1 LIFE SAFETY PLAN
1/16" = 1'-0"



2 ENLARGED LIFE SAFETY PLAN
1/8" = 1'-0"

DATE:	8/25
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DRAWN BY:	MKS
REVISION	DATE

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DO NOT SCALE DRAWING

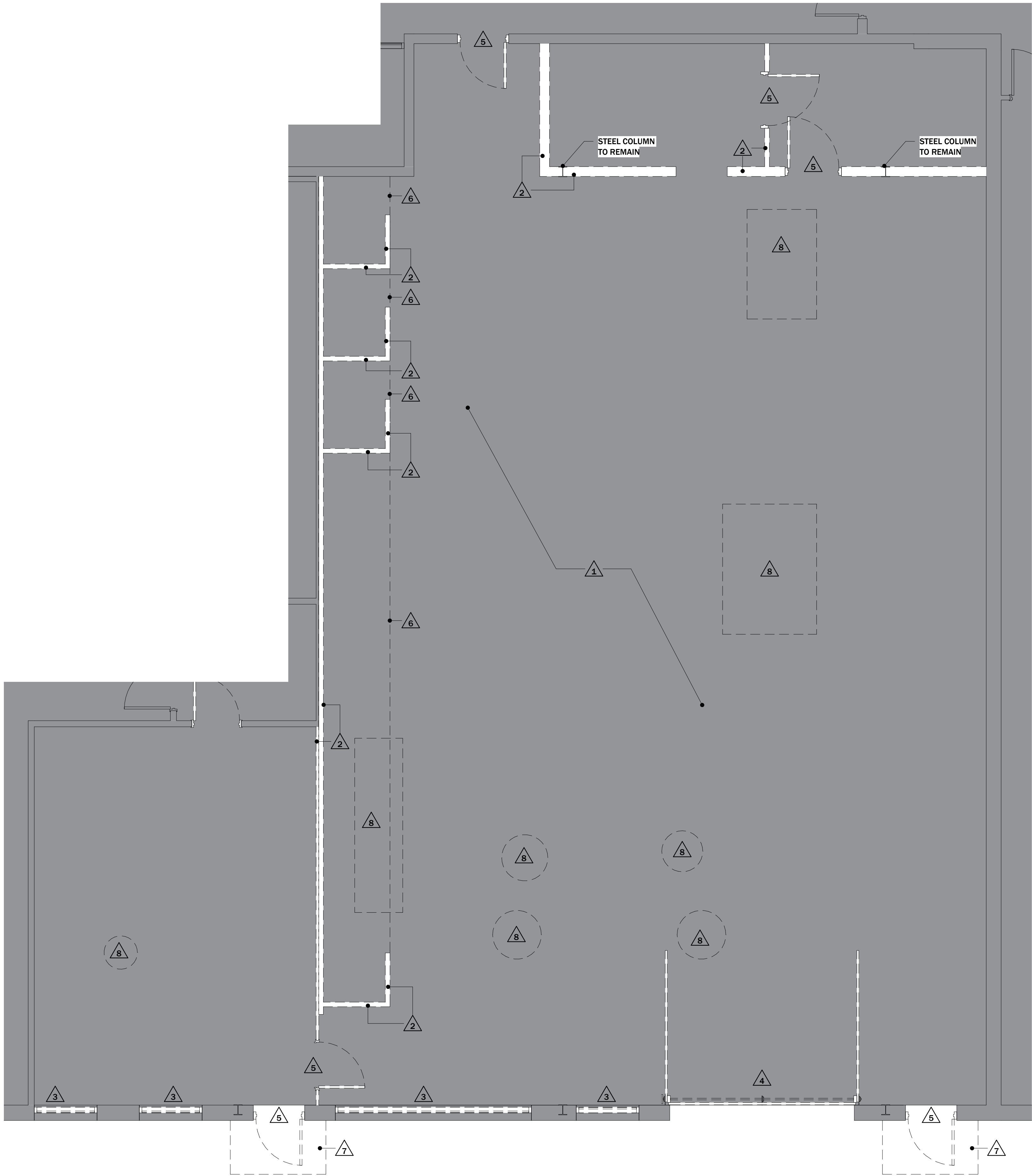
ARCHITECTURAL
DEMOLITION
FLOOR PLAN

SHEET NO.

AD100

DEMOLITION NOTES	
	REFERENCE MEP DRAWINGS FOR THE LOCATION OF NEW UNDERSLAB PIPING. CUT AND REMOVE EXISTING CONCRETE SLAB AS REQ'D INCLUDING BUT NOT LIMITED TO, STEEL REBAR, WIRE MESH, GRAVEL SUB-SURFACE BASE. SAW-CUT CONCRETE AT THE TRANSITION WHERE CONCRETE TO BE REMOVED ABUTS CONCRETE TO REMAIN.
	REMOVE ENTIRE WALL OR PORTION OF WALL AS REQUIRED FOR NEW WORK INCLUDING WALL FINISH, STUDS, REINFORCEMENTS & PREP ADJACENT MATERIALS TO REMAIN FOR NEW INFILL OR OPENING. SEE SHEET A100. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
	REMOVE EXISTING WINDOW IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO WINDOW FRAME, GLAZING, GASKETS, CAULKING, AND ADDITIONAL JAMB/SILL/HEADER BRACING AS REQUIRED FOR NEW WORK.
	REMOVE EXISTING OVERHEAD DOOR, FRAME, HARDWARE, AND WOOD COLUMNS AND HEADERS AT OPENINGS IN ITS ENTIRETY.
	REMOVE EXISTING DOOR, DOOR FRAME, DOOR HARDWARE IN ITS ENTIRETY.
	REMOVE AND DISPOSE OF STEEL FRAMING BEARING ON MASONRY WALLS FOR WELDING EQUIP.
	REMOVE AND DISPOSE OF EXISTING ASPHALT AND SUBGRADE AS REQ'D FOR NEW CONCRETE STOOP.
	REMOVE AND DISPOSE OF EXISTING ROOFING AS REQ'D TO INSTALL NEW MECH EQUIP. INCLUDING BUT NOT LIMITED TO ROOF MEMBRANE, ROOF INSULATION, AND FIBER CEMENT ROOF DECKING. COORDINATE EXACT LOCATIONS WITH MEP DRAWINGS.

GENERAL DEMOLITION NOTES	
1.	ALL ITEMS / DEBRIS CALLED OUT TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER UNLESS NOTED OTHERWISE.
2.	ANY ITEMS CALLED OUT TO REMAIN SHALL BE PROTECTED FROM ANY DAMAGE DUE TO CONSTRUCTION AND REMAIN IN THE CONDITION IT WAS PRIOR TO THE START OF CONSTRUCTION.
3.	ANY ITEMS CALLED OUT TO BE SALVAGED AND TURNED OVER TO OWNER, RELOCATED, OR RE-USED SHALL BE CAREFULLY REMOVED AND MOVED TO AN AREA AWAY FROM THE CONSTRUCTION AREA. COORDINATE WITH OWNER A LOCATION FOR SUCH ITEMS OR MATERIALS.
4.	THE DEMOLITION WORK IS INTENDED TO INDICATE THE BOUNDS OR WORK REQUIRED. IT IS NOT EXPECTED THAT EVERY ITEM WILL BE SPECIFICALLY CALLED OUT IN THE DOCUMENTS. CONTRACTOR SHALL PROVIDE ALL DEMOLITION REQUIRED FOR NEW CONSTRUCTION REGARDLESS IF SHOWN ON DRAWINGS OR NOT.
5.	EXISTING CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER OF RECORD BEFORE PROCEEDING WITH THE AFFECTED PORTIONS OF WORK.
6.	PATCH AND REPAIR EXISTING CONSTRUCTION AS REQUIRED DUE TO DEMOLITION. PATCH TO MATCH ADJACENT FINISH.
7.	REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DEMOLITION DRAWINGS FOR MECHANICAL, ELECTRICAL, AND PLUMBING DEMOLITION INFORMATION.
8.	CONTRACTOR SHALL TAKE PRECAUTIONS AND PROVIDE ANY SHORING OR BRACING OF EXISTING BEARING WALLS AS REQUIRED. USE APPROPRIATE PRECAUTIONS AND THOSE AREA AND REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9.	TOOTH IN MASONRY WHEN CLOSING OPENINGS IN WALLS WHERE MASONRY REMAINS EXPOSED, AT CONCEALED LOCATIONS ANCHOR INFILL AT JAMBS.
10.	AT ALL VOIDS & CAVITIES FROM DEMOLITION & EXCAVATION, BACKFILL AND COMPACT WITH ACCEPTABLE FILL.
11.	REFER TO CIVIL EXISTING CONDITIONS AND DEMOLITION DRAWINGS FOR CIVIL / SITE DEMOLITION INFORMATION.
12.	ANY HAZARDOUS MATERIAL SHALL BE REMOVED OF IN A LEGAL MANNER ACCORDING TO E.P.A. AND LOCAL REGULATIONS BY A CERTIFIED ABATEMENT CONTRACTOR. NOTIFY THE ARCHITECT UPON DISCOVERY OF ANY POTENTIAL ASBESTOS OR OTHER HAZARDOUS MATERIAL PRIOR TO CONTINUATION OF WORK.

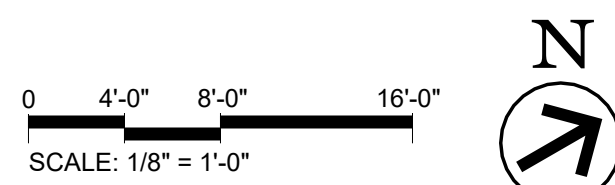


1 ENLARGED DEMOLITION FLOOR PLAN
1/4" = 1'-0"

NOT FOR CONSTRUCTION

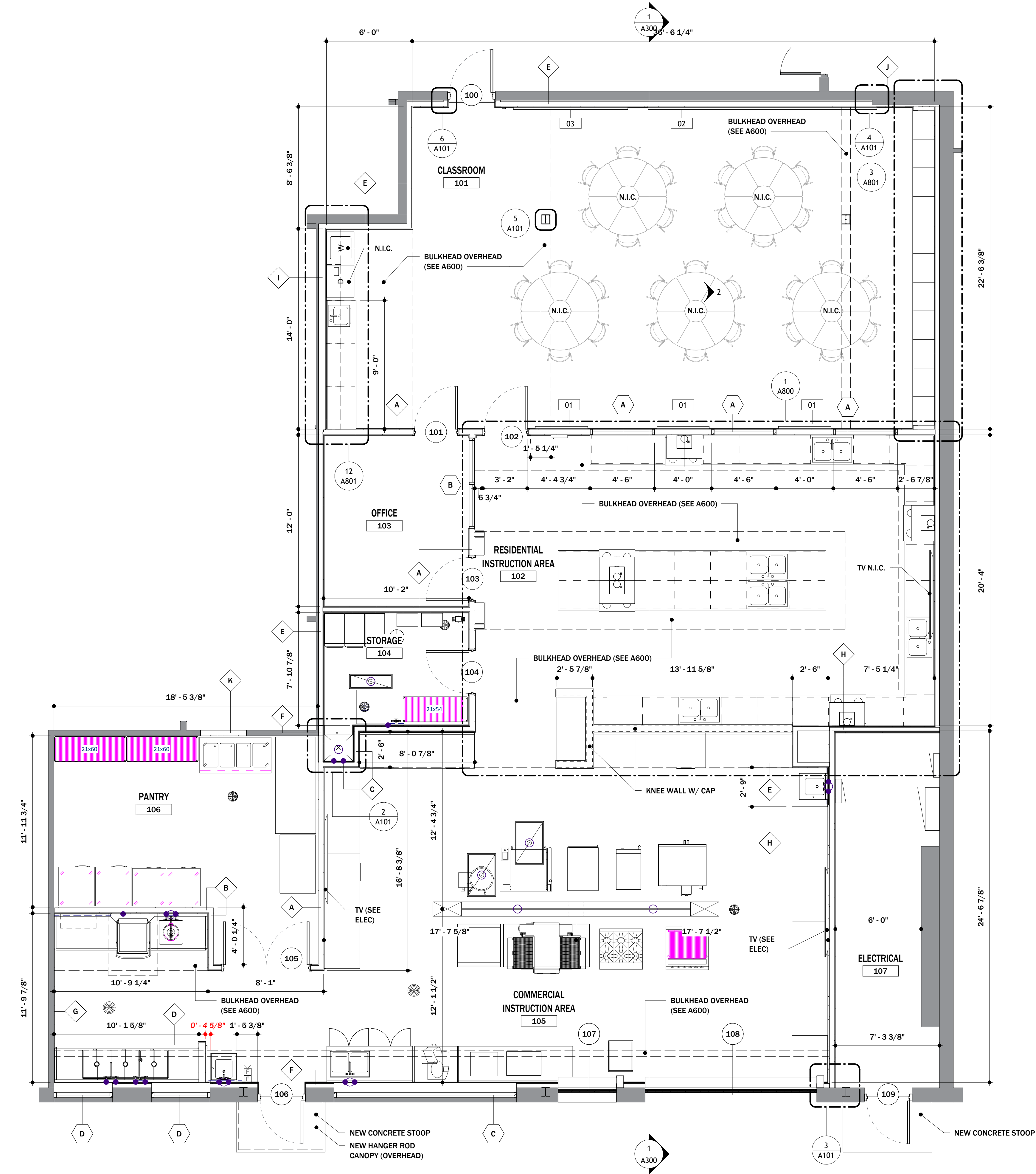


1 FLOOR PLAN
1/8" = 1'-0"



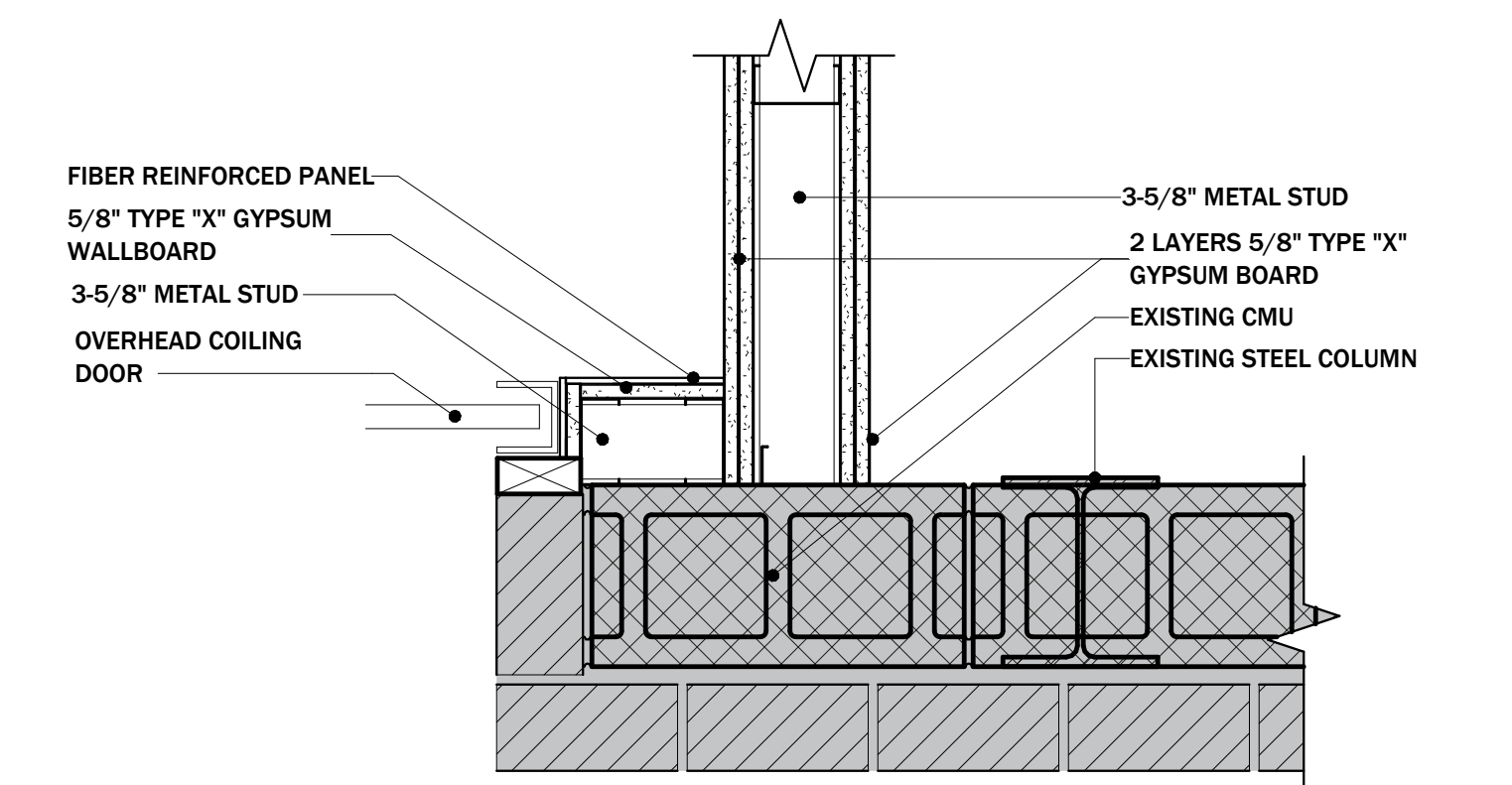
WALL SCHEDULE					
SYMBOL	DIMENSION	MATERIALS	FIRE RATING	FINISH	NOTES
A	0'-4 7/8"	(1) LAYER OF 5/8" TYPE "X" GYPSUM WALL BOARD OVER EACH SIDE OF 3 5/8" METAL STUDS @ 16" OC MAX	NR	PAINT (SEE A701)	
B	0'-5 1/8"	(1) LAYER STAINLESS STEEL PANELING ON (1) SIDE OVER (1) LAYER OF 5/8" TYPE "X" GYPSUM WALL BOARD OVER EACH SIDE OF 3 5/8" METAL STUDS @ 16" OC MAX	NR	PAINT (SEE A701)	
C	0'-5 1/8"	(1) LAYER FIBER REINFORCED PANELING ON (1) SIDE OVER (1) LAYER OF 5/8" TYPE "X" GYPSUM WALL BOARD OVER EACH SIDE OF 3 5/8" METAL STUDS @ 16" OC MAX	NR	PAINT (SEE A701)	
D	0'-5 3/8"	(1) LAYER FIBER REINFORCED PANELING ON EACH SIDE OVER (1) LAYER OF 5/8" TYPE "X" GYPSUM WALL BOARD OVER EACH SIDE OF 3 5/8" METAL STUDS @ 16" OC MAX	NR	PAINT (SEE A701)	
E	0'-4 1/4"	(1) LAYER OF 5/8" TYPE "X" GYPSUM WALL BOARD OVER (1) SIDE OF 3 5/8" METAL STUDS @ 16" OC MAX	NR	PAINT (SEE A701)	
F	0'-4 1/2"	(1) LAYER FIBER REINFORCED PANELING ON (1) SIDE OVER (1) LAYER OF 5/8" TYPE "X" GYPSUM WALL BOARD OVER (1) SIDE OF 3 5/8" METAL STUDS @ 16" OC MAX	NR	PAINT (SEE A701)	
G	0'-0 1/4"	(1) LAYER OF FIBER REINFORCED PANELING OVER EXISTING WOOD STUD WALL	NR	PAINT (SEE A701)	
H	0'-6 1/8"	(2) LAYERS OF 5/8" TYPE "X" GYPSUM WALL BOARD OVER EACH SIDE OF 3 5/8" METAL STUDS @ 16" OC MAX	2 HR	PAINT (SEE A701)	UL U419
I	0'-6 5/8"	(1) LAYER OF 5/8" TYPE "X" GYPSUM WALL BOARD OVER (1) SIDE OF 6" METAL STUDS @ 16" OC MAX	NR	PAINT (SEE A701)	
J	0'-1 1/2"	(1) LAYER OF 5/8" TYPE "X" GYPSUM WALL BOARD OVER (1) SIDE OF 7/8" METAL FURRING @ 16" OC MAX	NR	PAINT (SEE A701)	
K	0'-4 3/4"	(1) LAYER OF 5/8" TYPE "X" GYPSUM WALL BOARD OVER EACH SIDE OF 4" NOMINAL WOOD STUDS	NR	PAINT (SEE A701)	MATCH EXISITING

NOTE: USE 5/8" TYPE "X" IMPACT RESISTANT GYPSUM WALL BOARD EVERYWHERE THAT DOES NOT HAVE FRP OR STAINLESS STEEL PANELING UP TO 8' AFF. USE TYPICAL 5/8" TYPE "X" GYPSUM WALL BOARD EVERYWHERE ELSE.

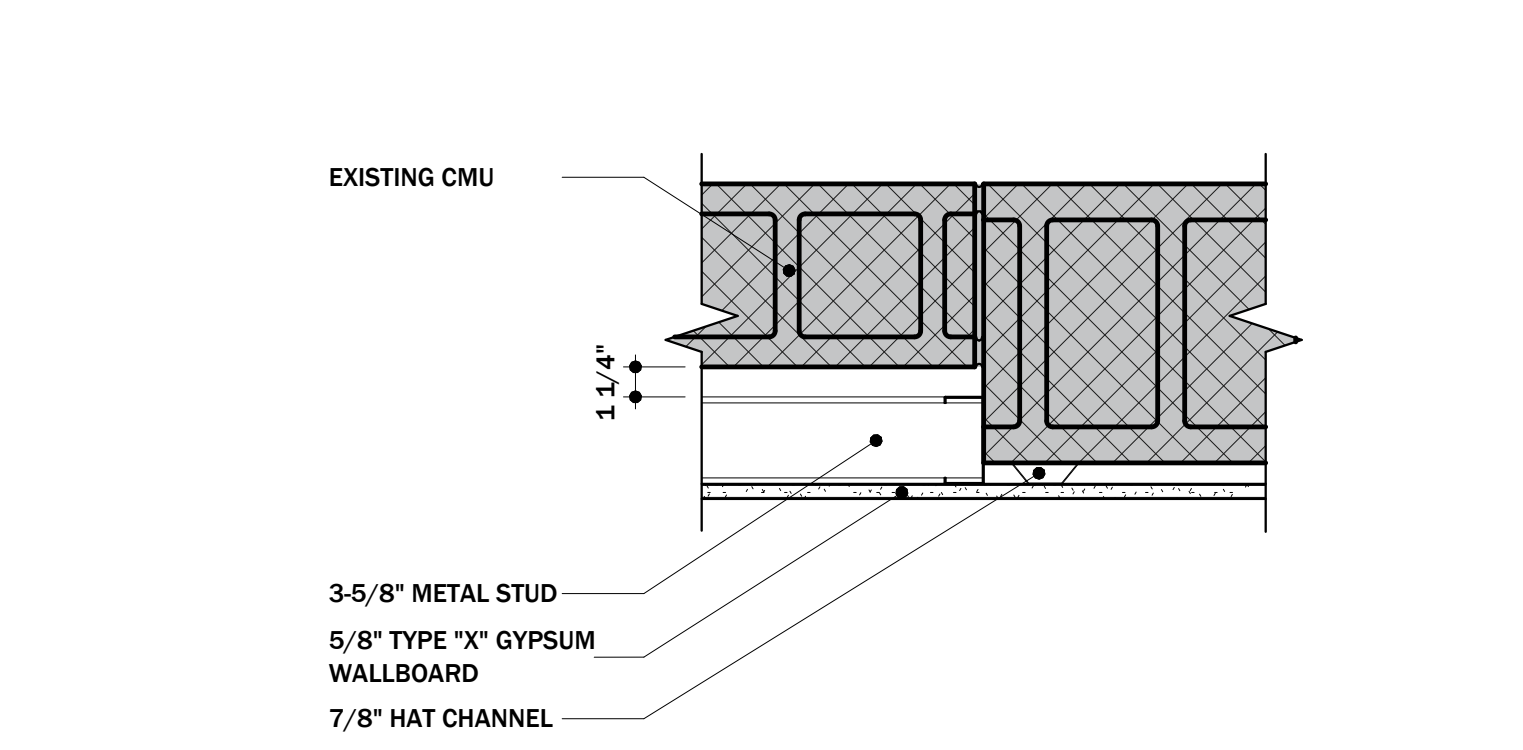


1 ENLARGED FLOOR PLAN
1/4" = 1'-0"

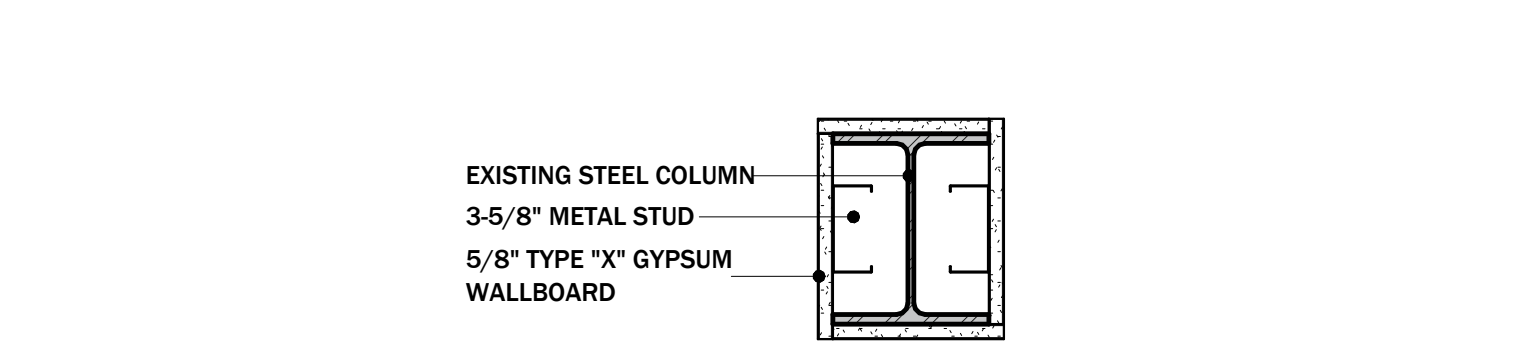
2 ENLARGED PLAN DETAIL: MOP SINK
1 1/2" = 1'-0"



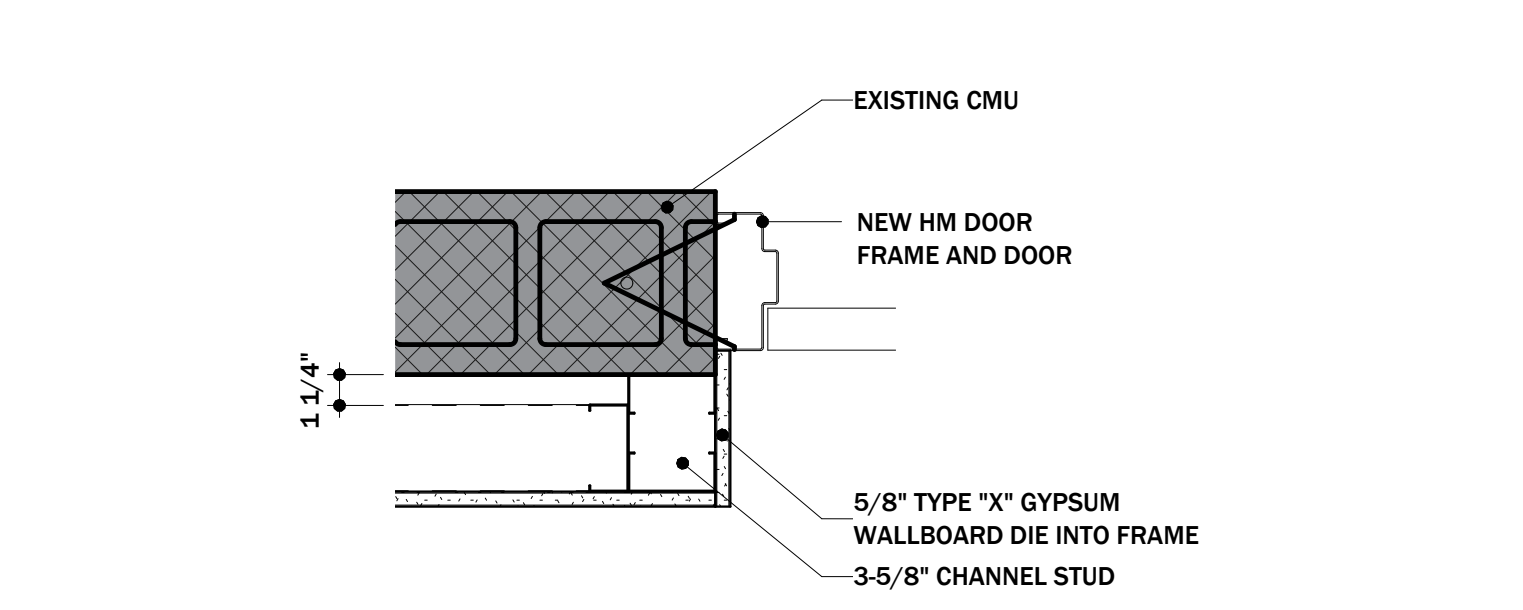
3 ENLARGED PLAN DETAIL: UL U419 2-HR RATED ABUTTING MASONRY WALL
1 1/2" = 1'-0"



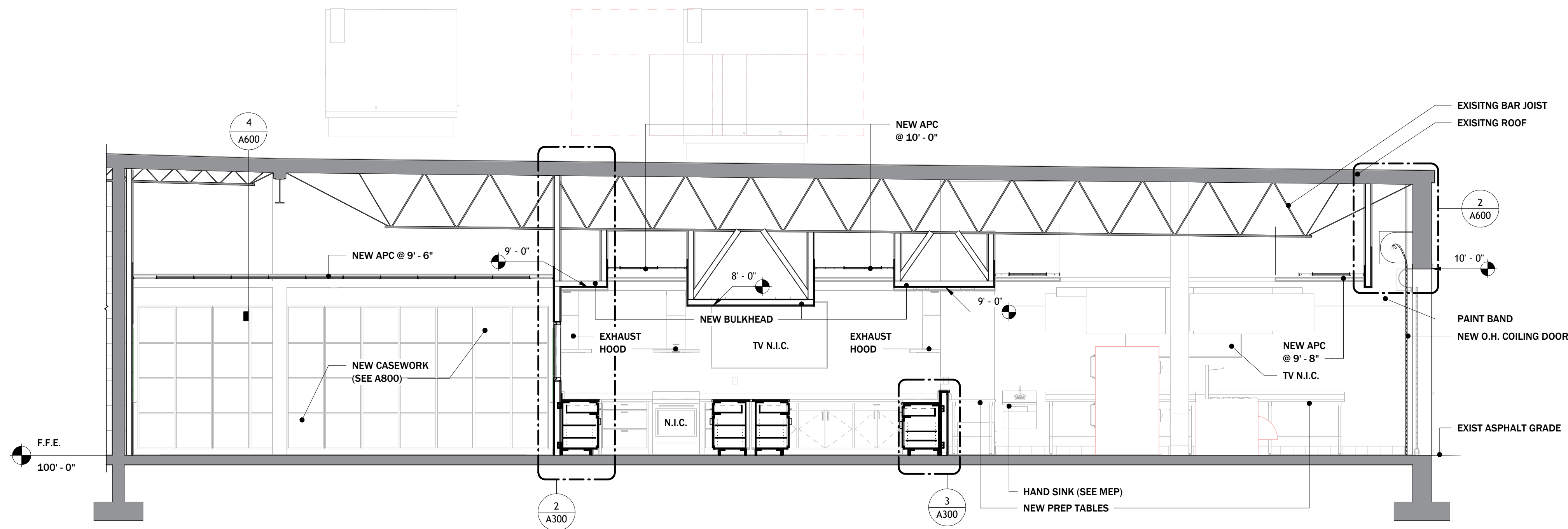
4 ENLARGED PLAN DETAIL: FURRING DETAIL
1 1/2" = 1'-0"



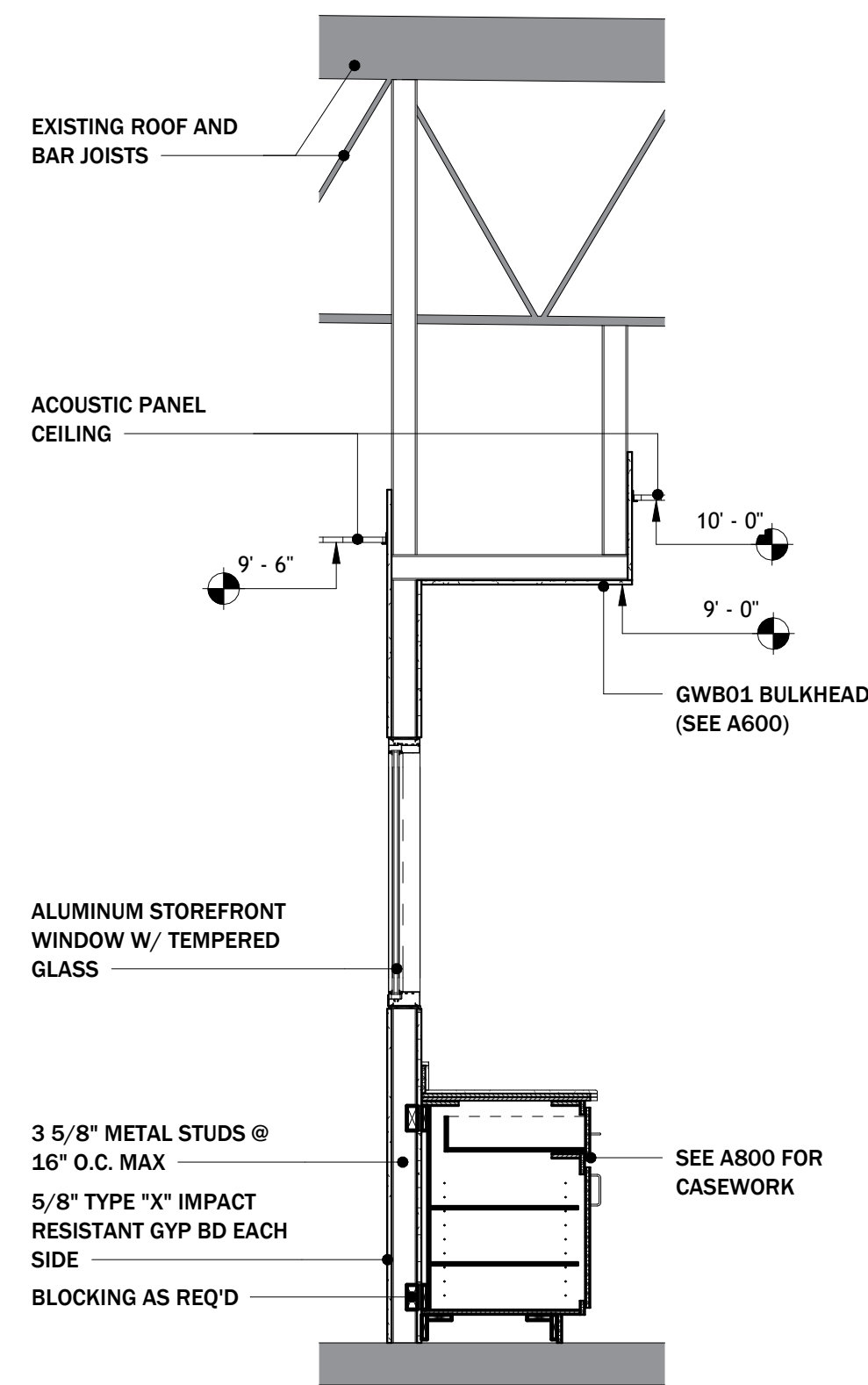
5 ENLARGED PLAN DETAIL: COLUMN FURRING DETAIL
1 1/2" = 1'-0"



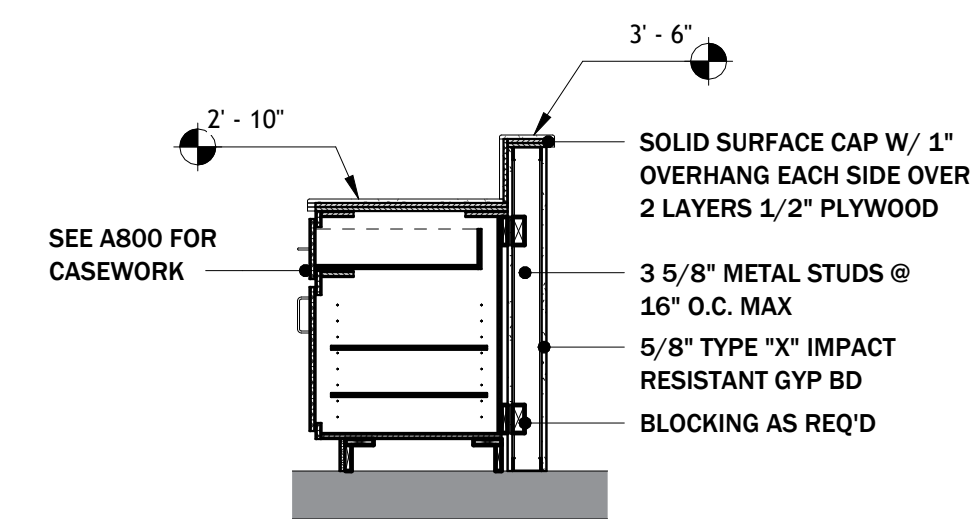
6 ENLARGED PLAN DETAIL: FURRING DETAIL
1 1/2" = 1'-0"



1 BUILDING SECTION
1/4" = 1'-0"



2 WALL SECTION
1/2" = 1'-0"



3 WALL SECTION
1/2" = 1'-0"

RUSSELLVILLE INDEPENDANT SCHOOLS
CULINARY ARTS RENOVATION
RUSSELLVILLE, KY

DATE:	8/25
PROJECT:	4-23
DRAWN BY:	APF
REVISION:	DATE

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BUILDING AND
WALL SECTIONS

SHEET NO.

A300

DATE	8/25
PROJ NO.	4-23
DRAWN BY:	MKS
REVISION	DATE

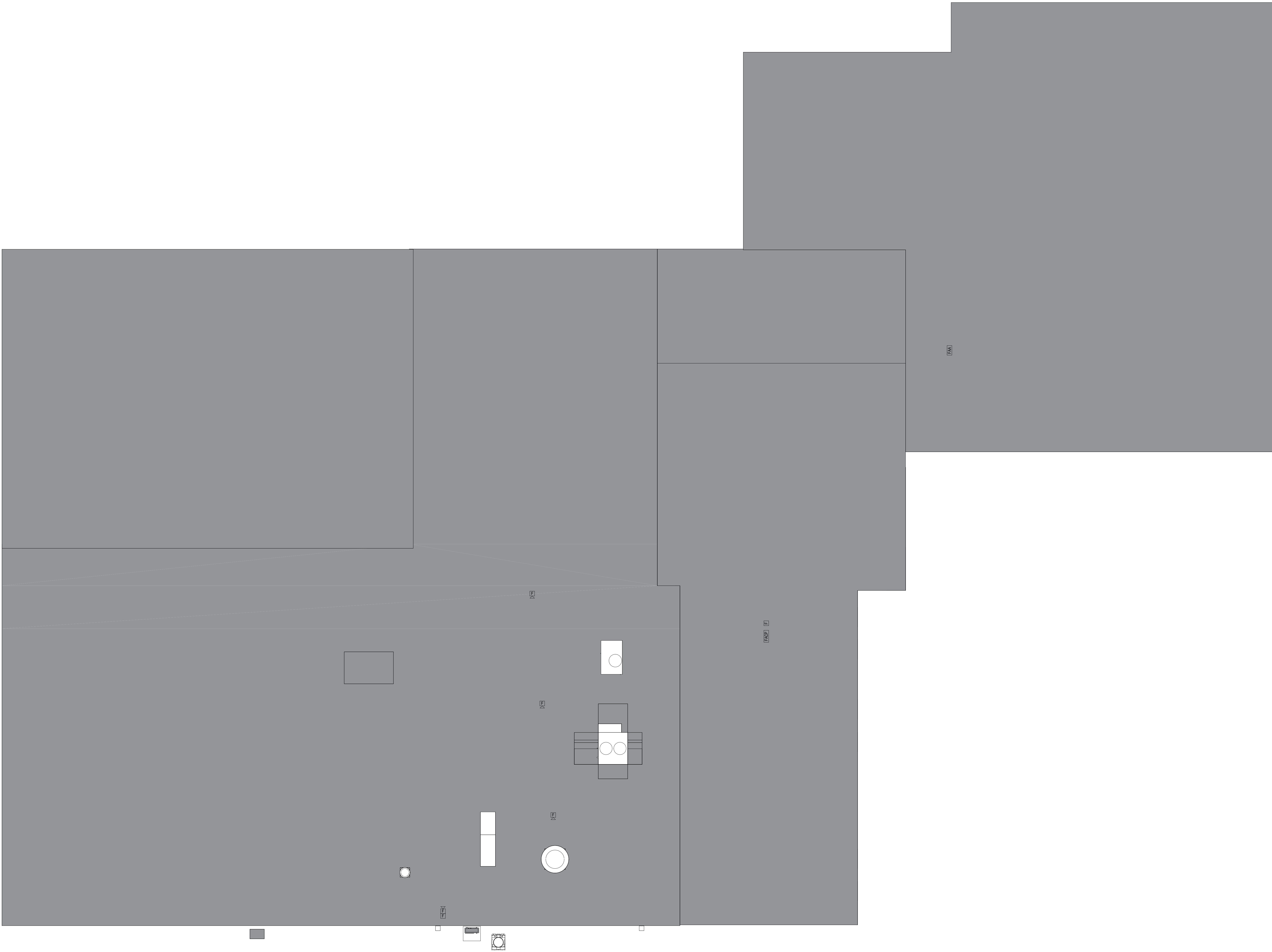
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ROOF PLAN

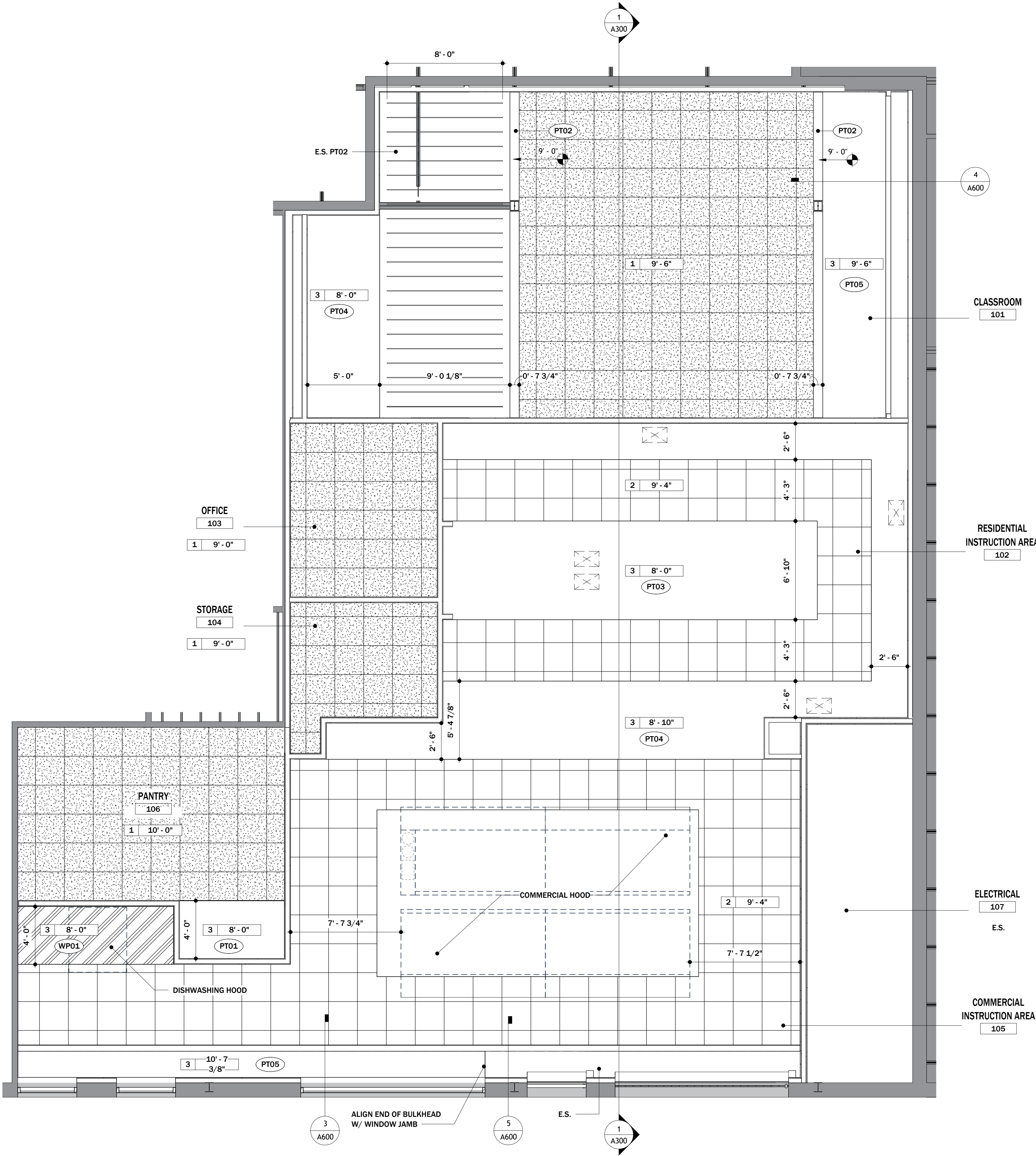
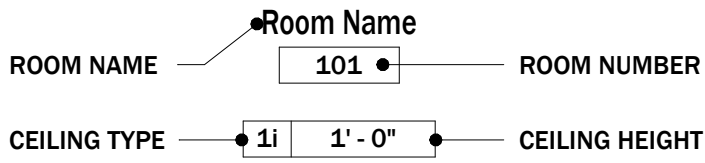
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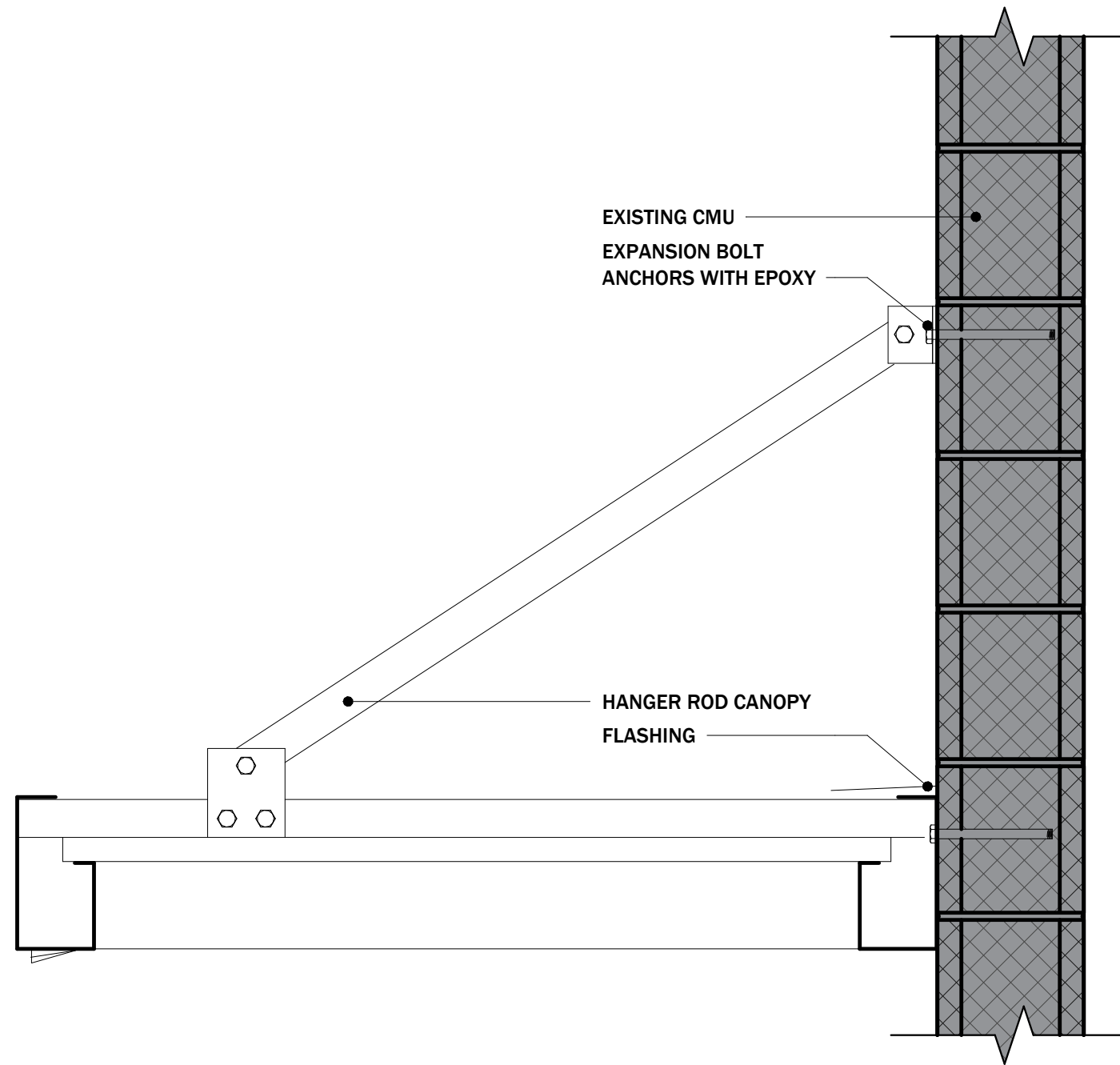


1 ROOF PLAN
1/8" = 1'-0"

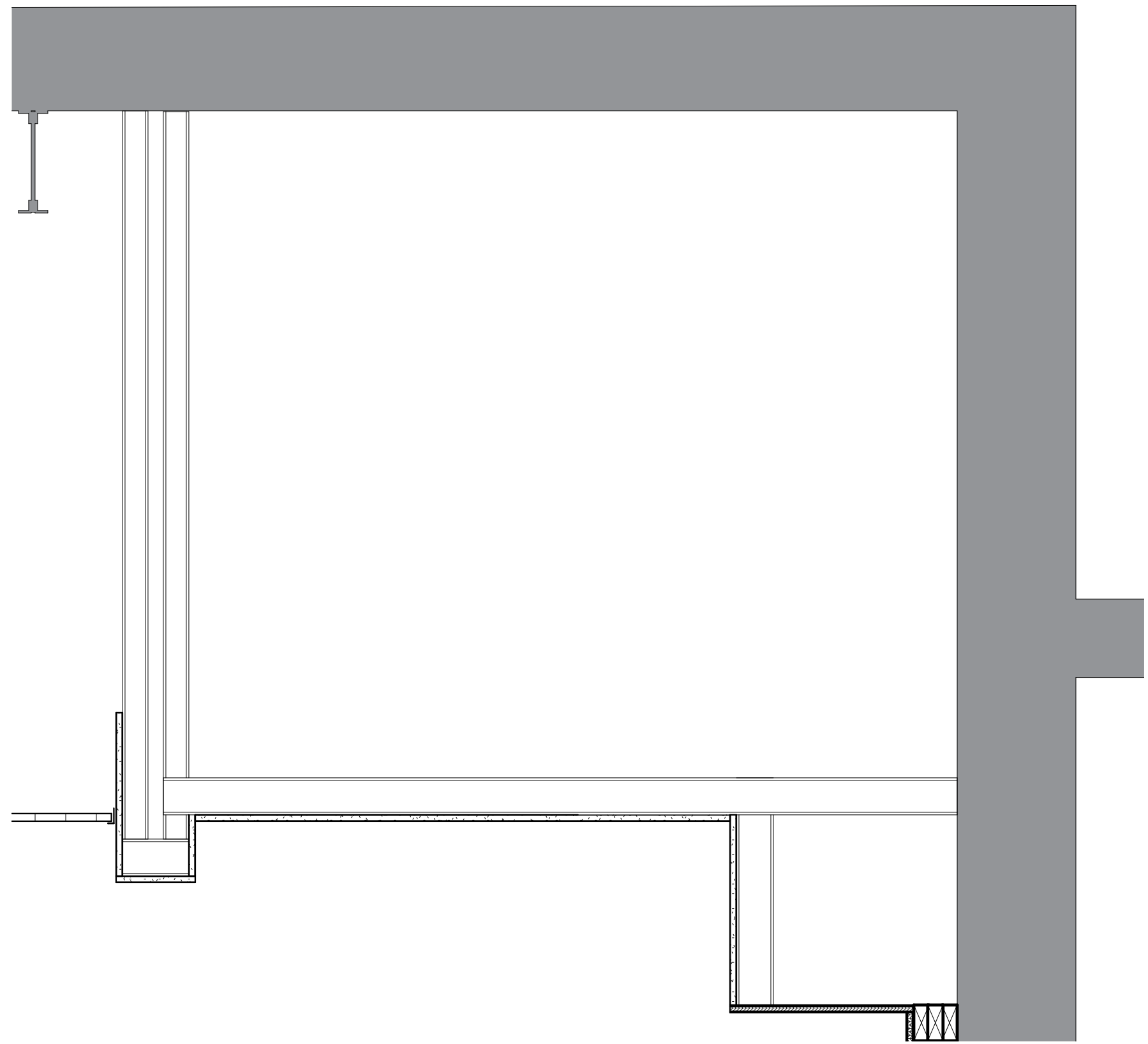
CEILING SCHEDULE		
SYMBOL	MATERIAL	NOTES
1	ACT01 - NEW 2'X2' ACOUSTIC CEILING GRID AND TILE	
2	ACT02 - NEW 2'X2' MOISTURE RESISTANT CEILING GRID AND TILE	
3	GWB01 - 5/8" TYPE "X" GYPSUM BOARD OVER MTL STUD FRAMING	PAINT. SEE A700 FOR COLOR SELECTION
4	ACB01 - SUSPENDED ACOUSTIC CEILING BAFFLES	PAINT EXPOSED STRUCTURE ABOVE.



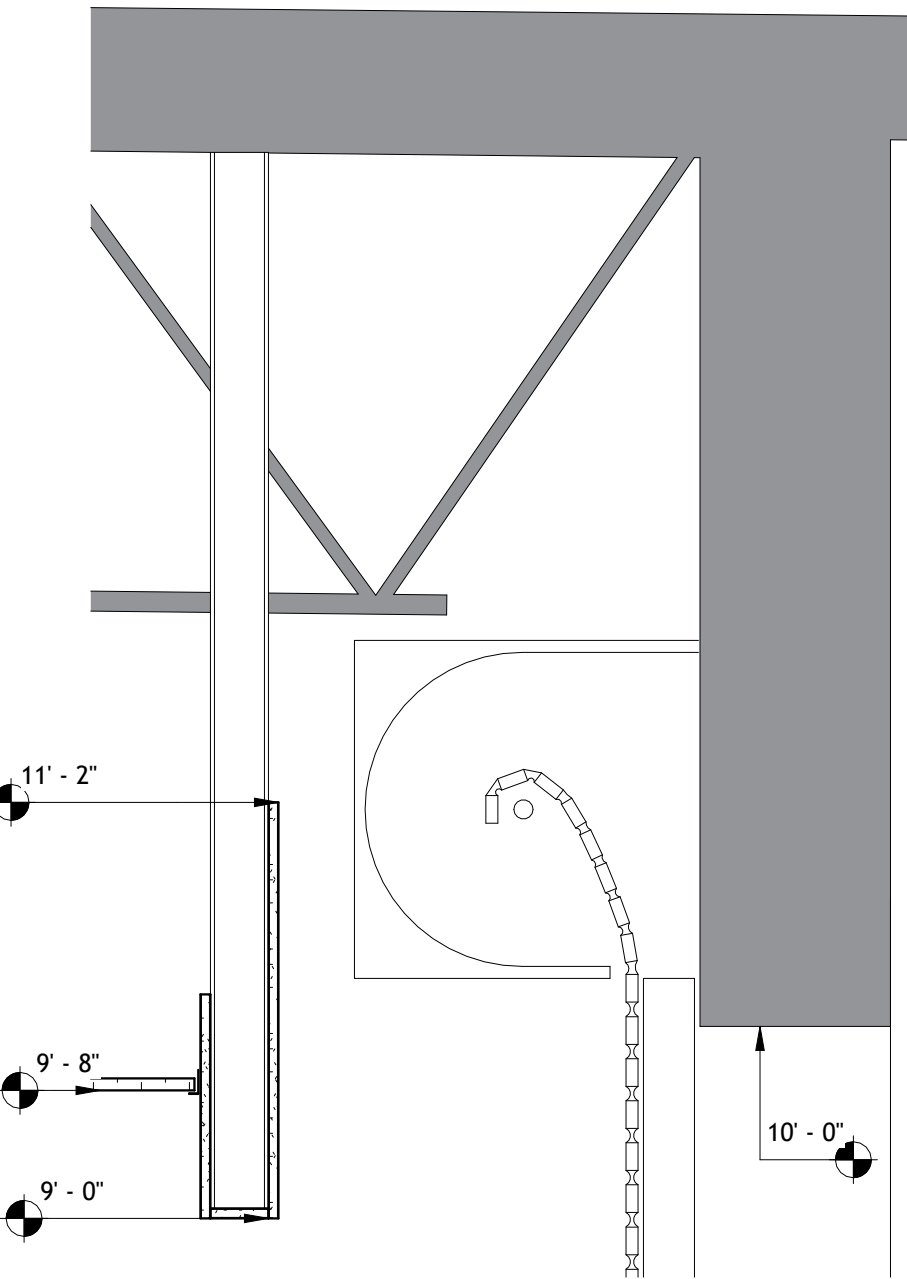
1 ENLARGED CEILING PLAN
1/4" = 1'-0"



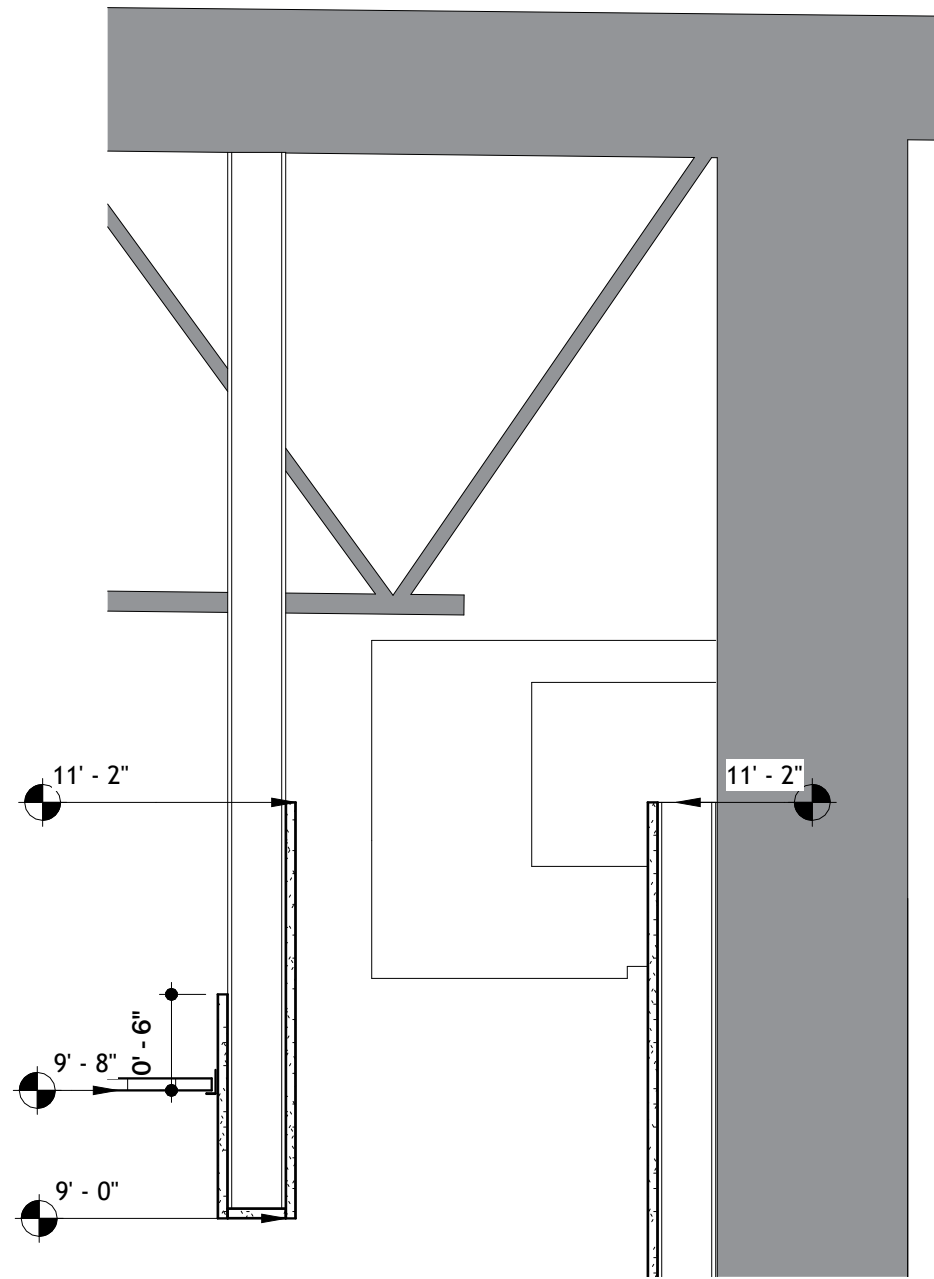
6 TYPICAL HANGER ROD CANOPY IN EXISTING CMU
1 1/2" = 1'-0"



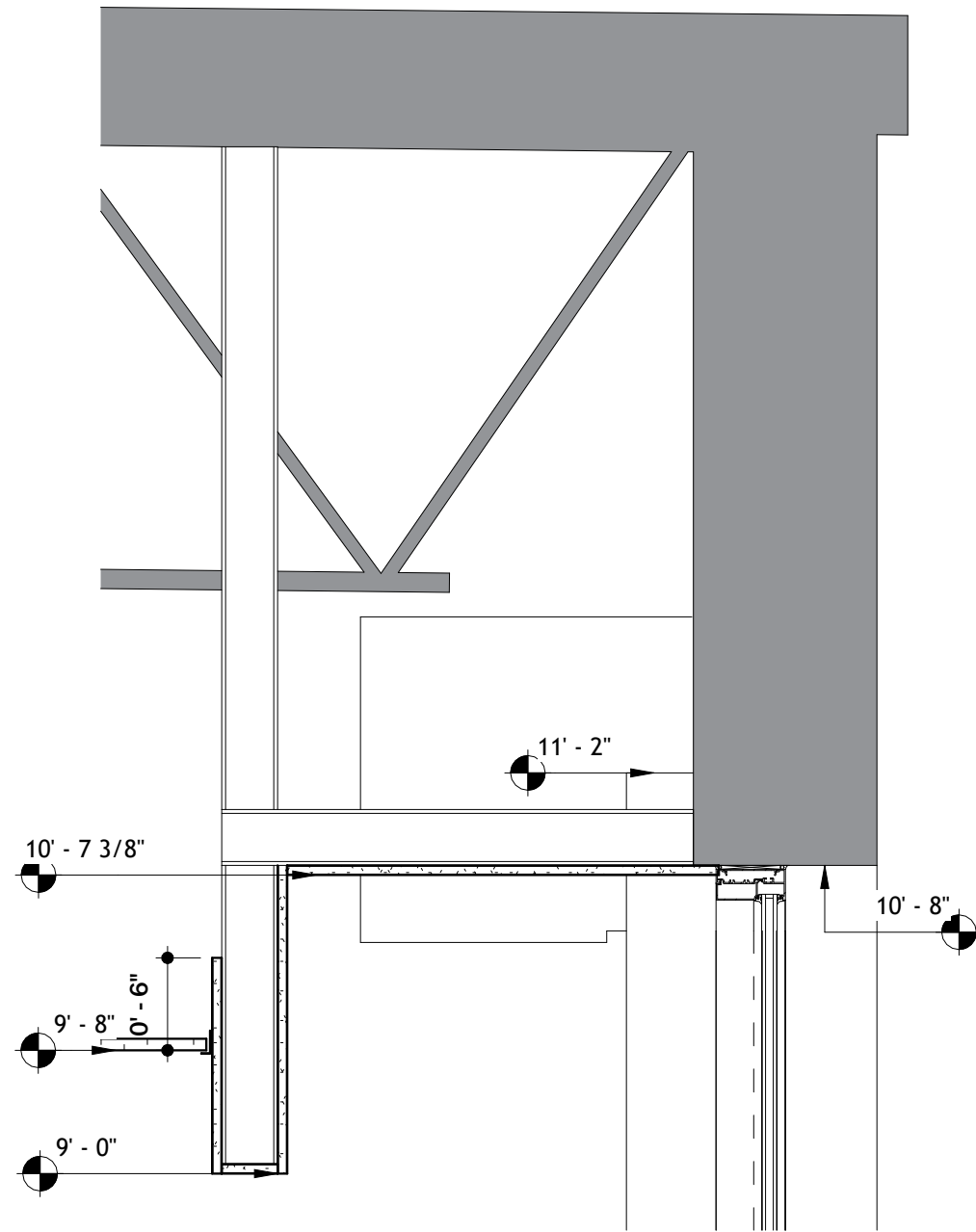
4 BULKHEAD DETAIL
1" = 1'-0"



2 BULKHEAD DETAIL
1" = 1'-0"



5 BULKHEAD DETAIL
1" = 1'-0"

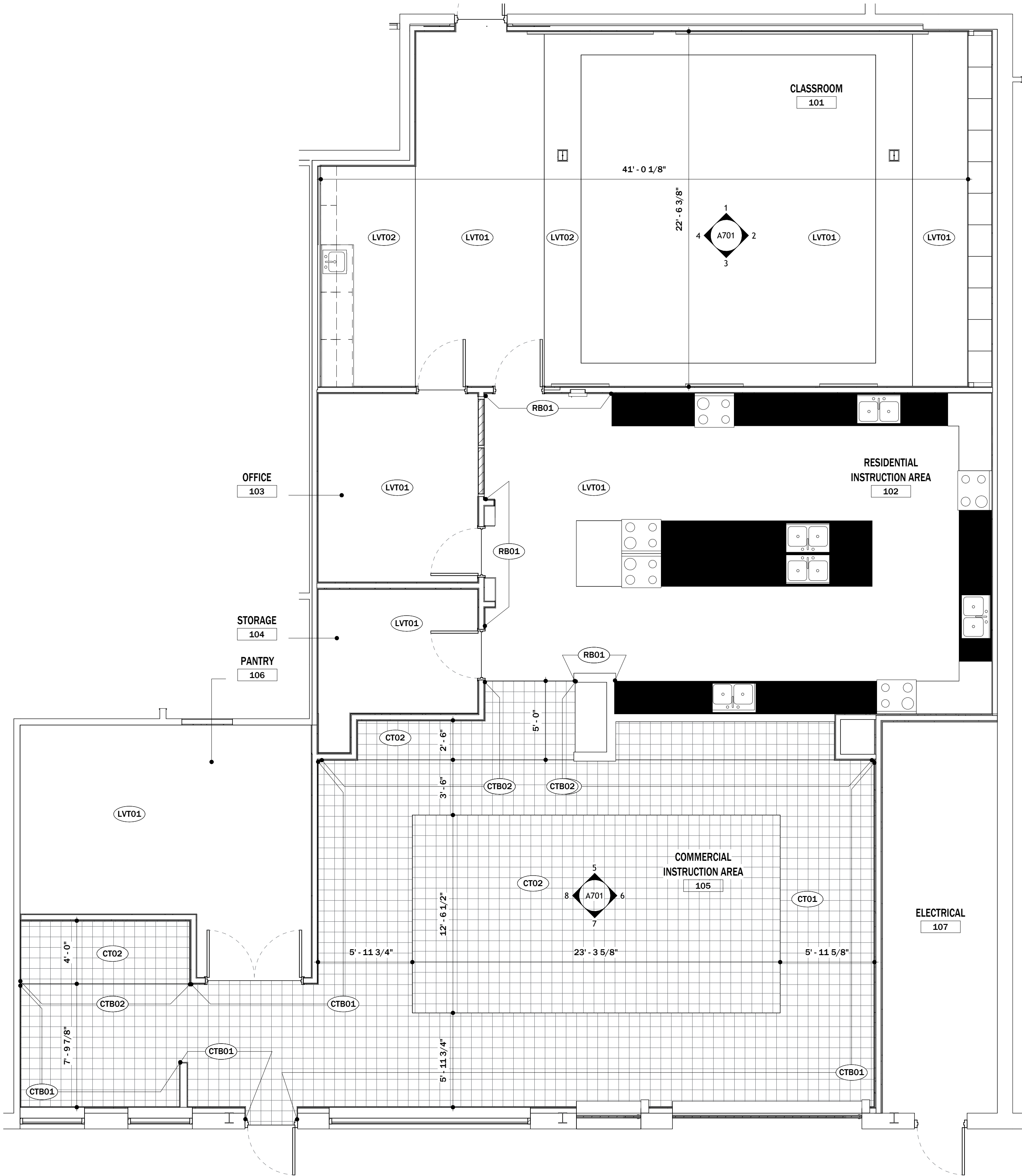


3 BULKHEAD DETAIL
1" = 1'-0"

MATERIAL SCHEDULE							
SYMBOL	DESCRIPTION	MANUFACTURER	STYLE	COLOR	SIZE	NOTES	TYPE
BASE							
RB01	RESILIENT BASE	JOHNSONITE	TIGHTLOCK RESILIENT WALL BASE	48 GREY	4"	BASIS OF DESIGN	BASE
CTB01	CERAMIC TILE BASE	CROSSVILLE	CROSS-COLORS MINGLES - COVE BASE	MERCURY	6" X 8"	BASIS OF DESIGN	BASE
CTB02	CERAMIC TILE BASE	CROSSVILLE	CROSS-COLORS MINGLES - COVE BASE	GRAPHITE	6" X 8"	BASIS OF DESIGN	BASE
CEILING							
ACT01	ACOUSTIC CEILING TILE				24" X 24"	BASIS OF DESIGN	CEILING
GWB01	GYP BD CEILING					BASIS OF DESIGN	CEILING
ACB01	ACOUSTICAL CEILING BAFFLES	ARKTURA	SOUNDEDGE - SOFT SOUND WOOD TEXTURES	CHARRED ASH	8"	BASIS OF DESIGN	CEILING
ACT02	MOISTURE RESISTANT ACOUSTICAL CEILING TILE				24" X 24"	BASIS OF DESIGN	CEILING
FLOORING							
LVT01	LUXURY VINYL TILE	GERFLOR	CREATION GUIDEPOINT	FENNEL SEED	12" X 24"	BASIS OF DESIGN	FLOORING
LVT02	LUXURY VINYL TILE	GERFLOR	CREATION GUIDEPOINT	CLOUDED THYME	12" X 24"	BASIS OF DESIGN	FLOORING
CT01	CERAMIC TILE	CROSSVILLE	CROSS-COLORS MINGLES - CROSS-TREAD	MERCURY	8" X 8"	BASIS OF DESIGN	FLOORING
CT02	CERAMIC TILE	CROSSVILLE	CROSS-COLORS MINGLES - CROSS-TREAD	GRAPHITE	8" X 8"	BASIS OF DESIGN	FLOORING
MILLWORK							
PLAM01	PLASTIC LAMINATE			WHITE		BASIS OF DESIGN	MILLWORK
ACR01	ACRYLIC			WHITE		BASIS OF DESIGN	MILLWORK
SS01	SOLID SURFACE			BLACK		BASIS OF DESIGN	MILLWORK
MISC							
							MISC
WALLS							
PT01	PAINT	PPG	SEMI GLOSS	WHITE		BASIS OF DESIGN	WALLS
PT02	PAINT	PPG	SEMI GLOSS	BLACK		BASIS OF DESIGN	WALLS
PT03	PAINT	PPG	SEMI GLOSS	LIGHT GREY		BASIS OF DESIGN	WALLS
PT04	PAINT	PPG	SEMI GLOSS	DARK GREY		BASIS OF DESIGN	WALLS
PT05	PAINT	PPG	SEMI GLOSS	SANDY PAIL OR EQUAL		BASIS OF DESIGN	WALLS
WP01	STAINLESS STEEL WALL PANELS						WALLS
WP02	FIBER REINFORCED WALL PANELS						WALLS

ROOM FINISH SCHEDULE									
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH				CEILING FINISH	COMMENTS
				PROJECT NORTH	PROJECT EAST	PROJECT SOUTH	PROJECT WEST		
101	CLASSROOM	LVT (SEE PLAN 1/A700)	RB01	SEE ELEV 1/A701	SEE ELEV 2/A701	SEE ELEV 3/A701	SEE ELEV 4/A701	ACT01/GWB01/A CB01 (SEE RCP 2/A700)	
102	RESIDENTIAL INSTRUCTION AREA	????	RB/CTB (SEE PLAN 1/A700)	PT04	PT04	PT04	PT04	ACT02/GWB01 (SEE RCP 2/A700)	
103	OFFICE	LVT01	RB01	PT01	PT01	PT01	PT01	ACT01	
104	STORAGE	LVT01	RB01	PT01	PT01	PT01	PT01	ACT01	
105	COMMERCIAL INSTRUCTION AREA	CT (SEE PLAN 1/A700)	CTB (SEE PLAN 1/A700)	SEE ELEV 1/A701	SEE ELEV 1/A701	SEE ELEV 1/A701	SEE ELEV 1/A701	ACT02/GWB01 (SEE RCP 2/A700)	
106	PANTRY	LVT01	RB01	PT01	PT01	PT01	PT01	ACT01/GWB01 (SEE RCP 2/A700)	
107	ELECTRICAL	EXISTING FINISH	NA	PT01	PT01	PT01	PT01	NA	

ROOM FINISH LEGEND AND ABBREVIATIONS			
CG	CORNER GUARD		KEYNOTE
---	WALL PROTECTION		MATERIAL INSTALL TRANSITION
LVT	FLOOR FINISH TRANSITION		
ACT	ACOUSTIC CEILING TILE		
CT	CERAMIC TILE		
CPT	CARPET TILE		
GW	GYPSUM WALL BOARD		
LVT	LUXURY VINYL TILE		
PT	PAINT		
PCT	PORCELAIN TILE		
RB	RESILIENT BASE		
RES	RESINOUS EPOXY FLOORING		
RES-W	RESINOUS EPOXY WALL/CEILING COATING		
RF	RUBBER FLOORING		
SS	SOLID SURFACE		
SC	SPECIAL COATING		
SF	SPECIAL FACED		
WSF	WELDED SEAM SHEET FLOORING		



1 FINISH FLOOR PLAN
1/4" = 1'-0"

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RUSSELLVILLE INDEPENDANT SCHOOLS
CULINARY ARTS RENOVATION

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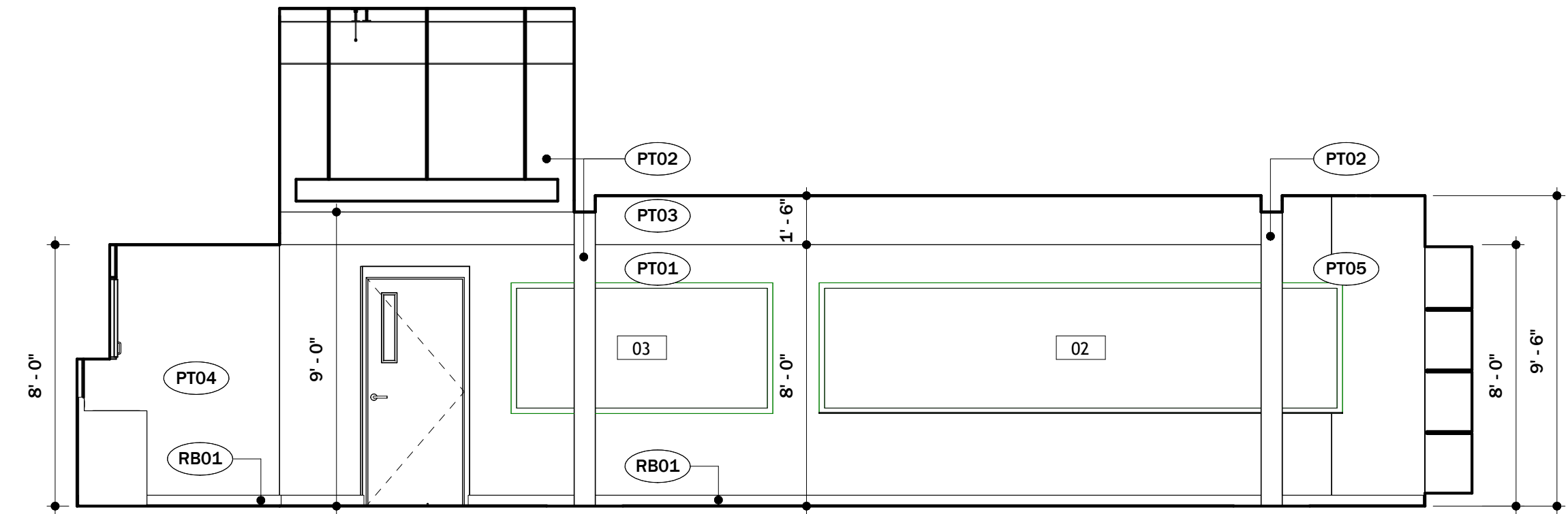
A700

MATERIAL SCHEDULE							
SYMBOL	DESCRIPTION	MANUFACTURER	STYLE	COLOR	SIZE	NOTES	TYPE
BASE							
RB01	RESILIENT BASE	JOHNSONITE	TIGHTLOCK RESILIENT WALL BASE	48 GREY	4"	BASIS OF DESIGN	BASE
CTB01	CERAMIC TILE BASE	CROSSVILLE	CROSS-COLORS MINGLES - COVE BASE	MERCURY	6" X 8"	BASIS OF DESIGN	BASE
CTB02	CERAMIC TILE BASE	CROSSVILLE	CROSS-COLORS MINGLES - COVE BASE	GRAPHITE	6" X 8"	BASIS OF DESIGN	BASE
CEILING							
ACT01	ACOUSTIC CEILING TILE				24" X 24"	BASIS OF DESIGN	CEILING
GWB01	GYP BD CEILING					BASIS OF DESIGN	CEILING
ACB01	ACOUSTICAL CEILING BAFFLES	ARKTURA	SOUNDEDGE - SOFT SOUND WOOD TEXTURES	CHARRED ASH	8"	BASIS OF DESIGN	CEILING
ACT02	MOISTURE RESISTANT ACOUSTICAL CEILING TILE				24" X 24"	BASIS OF DESIGN	CEILING
FLOORING							
LVT01	LUXURY VINYL TILE	GERFLOR	CREATION GUIDEPOINT	FENNEL SEED	12" X 24"	BASIS OF DESIGN	FLOORING
LVT02	LUXURY VINYL TILE	GERFLOR	CREATION GUIDEPOINT	CLOUDED THYME	12" X 24"	BASIS OF DESIGN	FLOORING
CT01	CERAMIC TILE	CROSSVILLE	CROSS-COLORS MINGLES - CROSS-TREAD	MERCURY	8" X 8"	BASIS OF DESIGN	FLOORING
CT02	CERAMIC TILE	CROSSVILLE	CROSS-COLORS MINGLES - CROSS-TREAD	GRAPHITE	8" X 8"	BASIS OF DESIGN	FLOORING
MILLWORK							
PLAM01	PLASTIC LAMINATE			WHITE		BASIS OF DESIGN	MILLWORK
ACR01	ACRYLIC			WHITE		BASIS OF DESIGN	MILLWORK
SS01	SOLID SURFACE			BLACK		BASIS OF DESIGN	MILLWORK
MISC							
							MISC
WALLS							
PT01	PAINT	PPG	SEMI GLOSS	WHITE		BASIS OF DESIGN	WALLS
PT02	PAINT	PPG	SEMI GLOSS	BLACK		BASIS OF DESIGN	WALLS
PT03	PAINT	PPG	SEMI GLOSS	LIGHT GREY		BASIS OF DESIGN	WALLS
PT04	PAINT	PPG	SEMI GLOSS	DARK GREY		BASIS OF DESIGN	WALLS
PT05	PAINT	PPG	SEMI GLOSS	SANDY PAIL OR EQUAL		BASIS OF DESIGN	WALLS
WP01	STAINLESS STEEL WALL PANELS						WALLS
WP02	FIBER REINFORCED WALL PANELS						WALLS

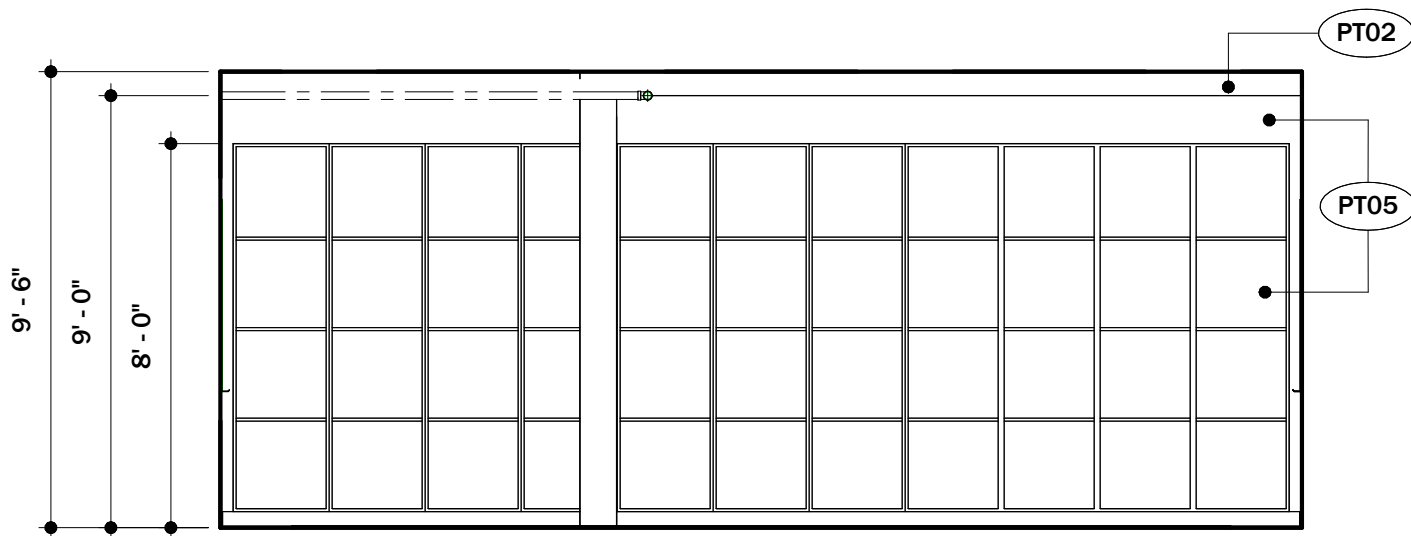
ROOM FINISH SCHEDULE									
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH				CEILING FINISH	COMMENTS
				PROJECT NORTH	PROJECT EAST	PROJECT SOUTH	PROJECT WEST		
101	CLASSROOM	LVT (SEE PLAN 1/A700)	RB01	SEE ELEV 1/A701	SEE ELEV 2/A701	SEE ELEV 3/A701	SEE ELEV 4/A701	ACT01/GWB01/A CB01 (SEE RCP 2/A700)	
102	RESIDENTIAL INSTRUCTION AREA	????	RB/CTB (SEE PLAN 1/A700)	PT04	PT04	PT04	PT04	ACT02/GWB01 (SEE RCP 2/A700)	
103	OFFICE	LVT01	RB01	PT01	PT01	PT01	PT01	ACT01	
104	STORAGE	LVT01	RB01	PT01	PT01	PT01	PT01	ACT01	
105	COMMERCIAL INSTRUCTION AREA	CT (SEE PLAN 1/A700)	CTB (SEE PLAN 1/A700)	SEE ELEV 1/A701	SEE ELEV X/A701	SEE ELEV X/A701	SEE ELEV X/A701	ACT02/GWB01 (SEE RCP 2/A700)	
106	PANTRY	LVT01	RB01	PT01	PT01	PT01	PT01	ACT01/GWB01 (SEE RCP 2/A700)	
107	ELECTRICAL	EXISTING FINISH	NA	PT01	PT01	PT01	PT01	NA	

ROOM FINISH LEGEND AND ABBREVIATIONS			
CG	CORNER GUARD		KEYNOTE
---	WALL PROTECTION	↖	MATERIAL INSTALL TRANSITION
LVT	FLOOR FINISH TRANSITION		
ACT	ACOUSTIC CEILING TILE		
CT	CERAMIC TILE		
CPT	CARPET TILE		
GWB	GYPSUM WALL BOARD		
LVT	LUXURY VINYL TILE		
PT	PAINT		
PCT	PORCELAIN TILE		
RB	RESILIENT BASE		
RES	RESINOUS EPOXY FLOORING		
RES-W	RESINOUS EPOXY WALL/CEILING COATING		
RF	RUBBER FLOORING		
SS	SOLID SURFACE		
SC	SPECIAL COATING		
SF	SPECIAL FACED		
WSF	WELDED SEAM SHEET FLOORING		

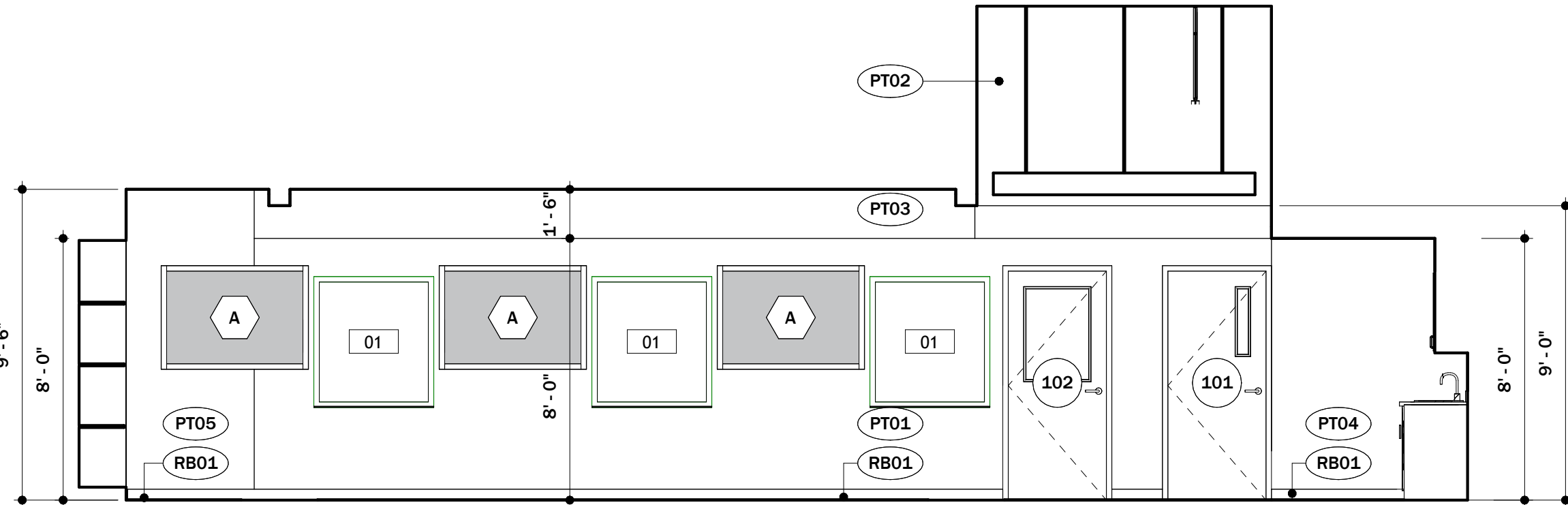
DRAWING BOARD SCHEDULE						
SYMBOL	HEIGHT	WIDTH	MOUNTING HEIGHT	QUANTITY	FINISH	TRAY
01	4'-0"	3'-8"	2'-10"	3	DRY ERASE	Yes
02	4'-0"	16'-0"	2'-10"	1	DRY ERASE	Yes
03	4'-0"	8'-0"	2'-10"	1	CORK	Yes



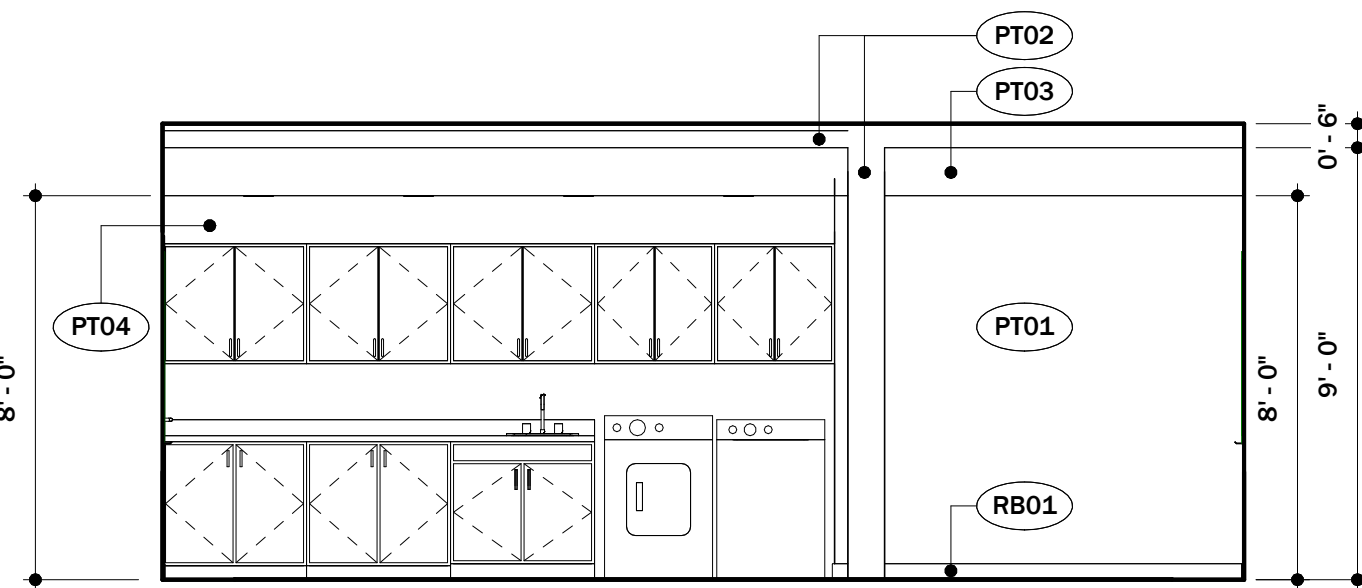
1 FINISH ELEVATION
1/4" = 1'-0"



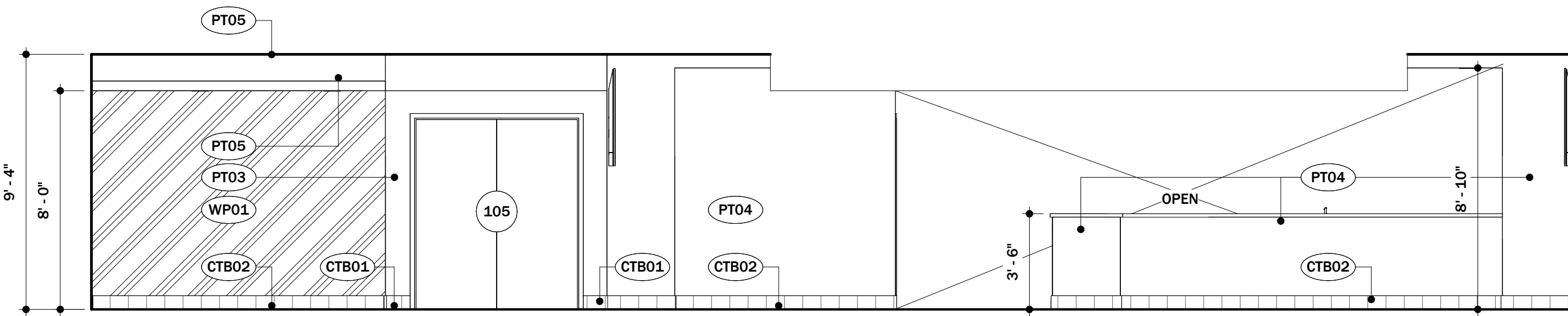
2 FINISH ELEVATION
1/4" = 1'-0"



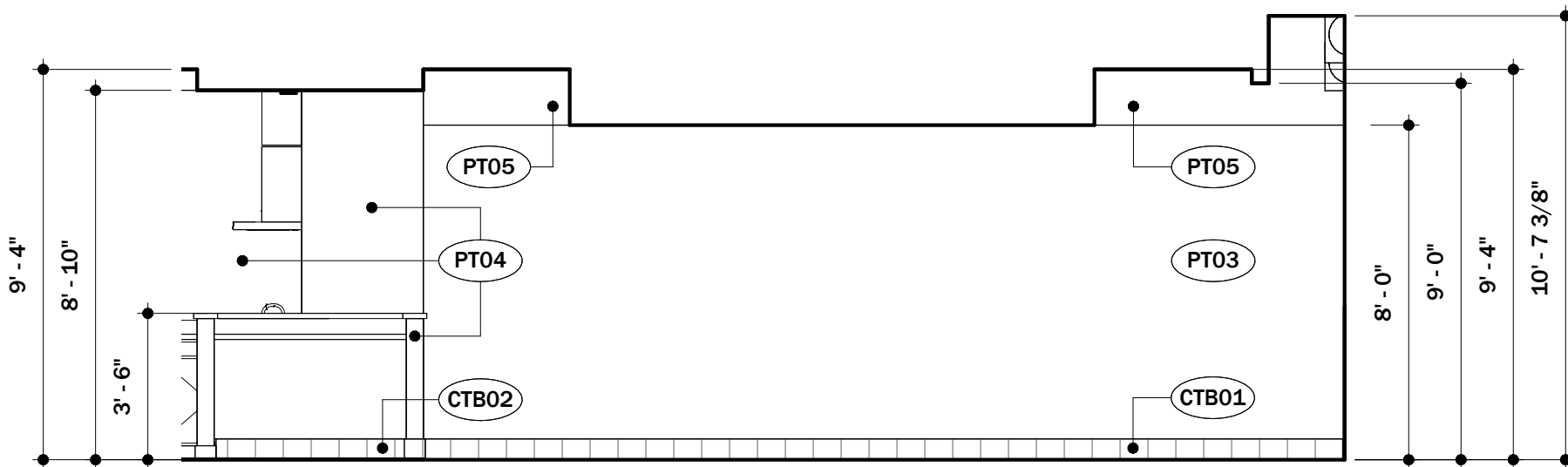
3 FINISH ELEVATION
1/4" = 1'-0"



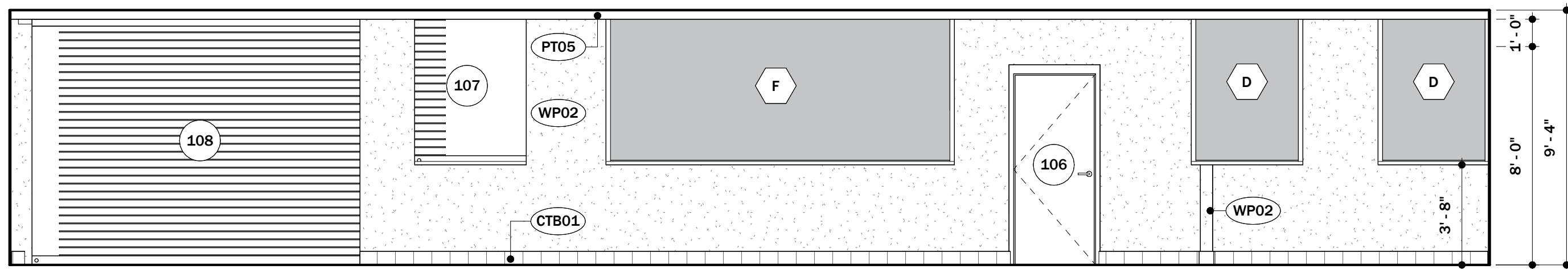
4 FINISH ELEVATION
1/4" = 1'-0"



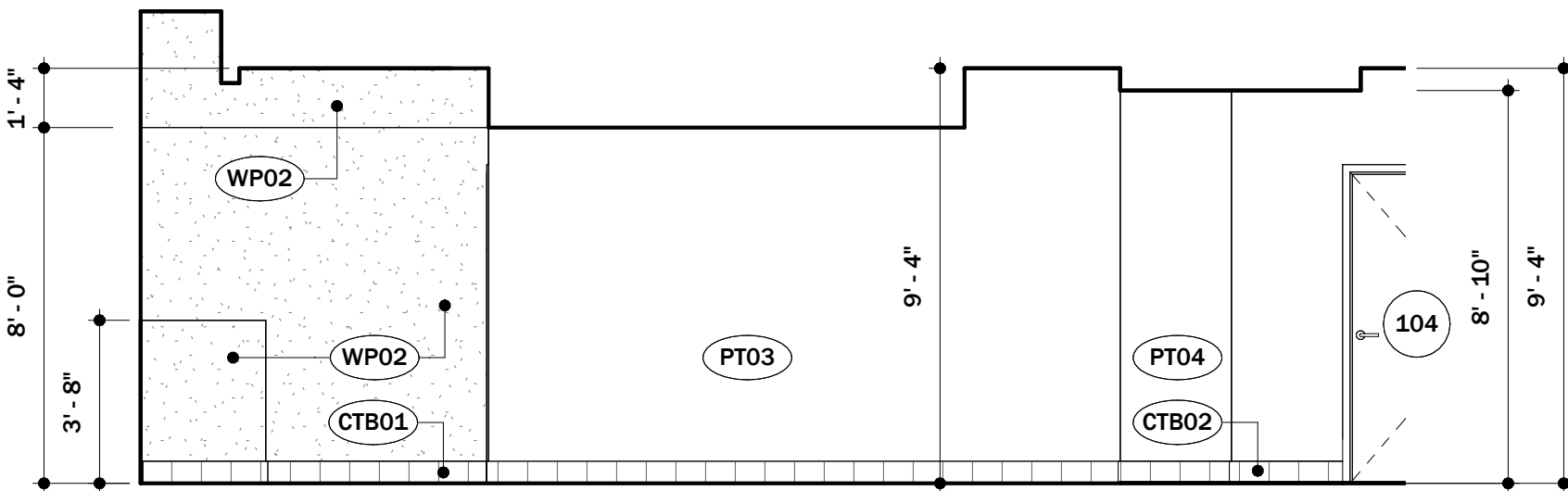
5 FINISH ELEVATION
1/4" = 1'-0"



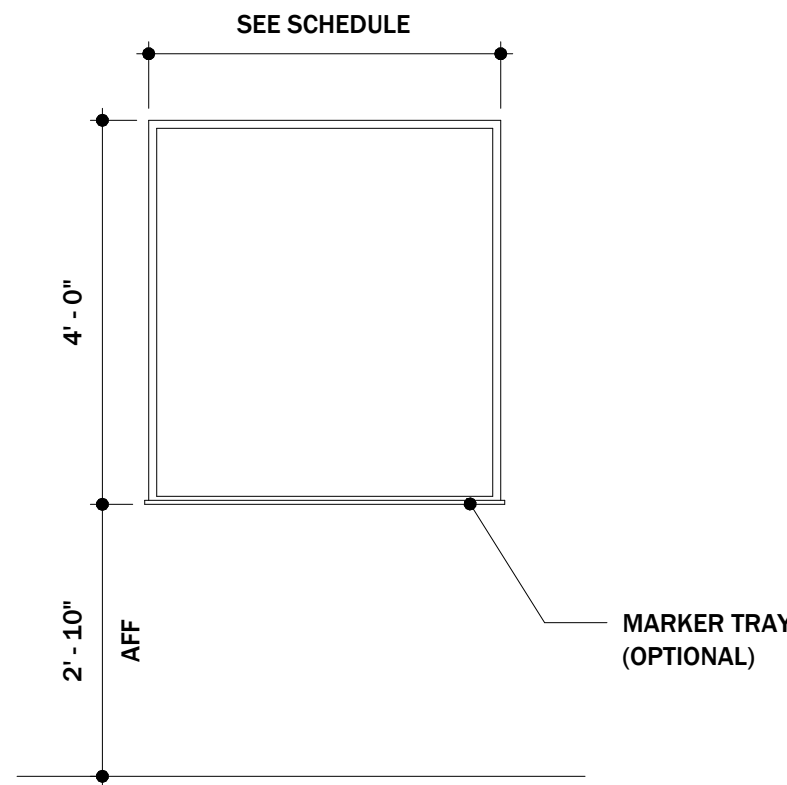
6 FINISH ELEVATION
1/4" = 1'-0"



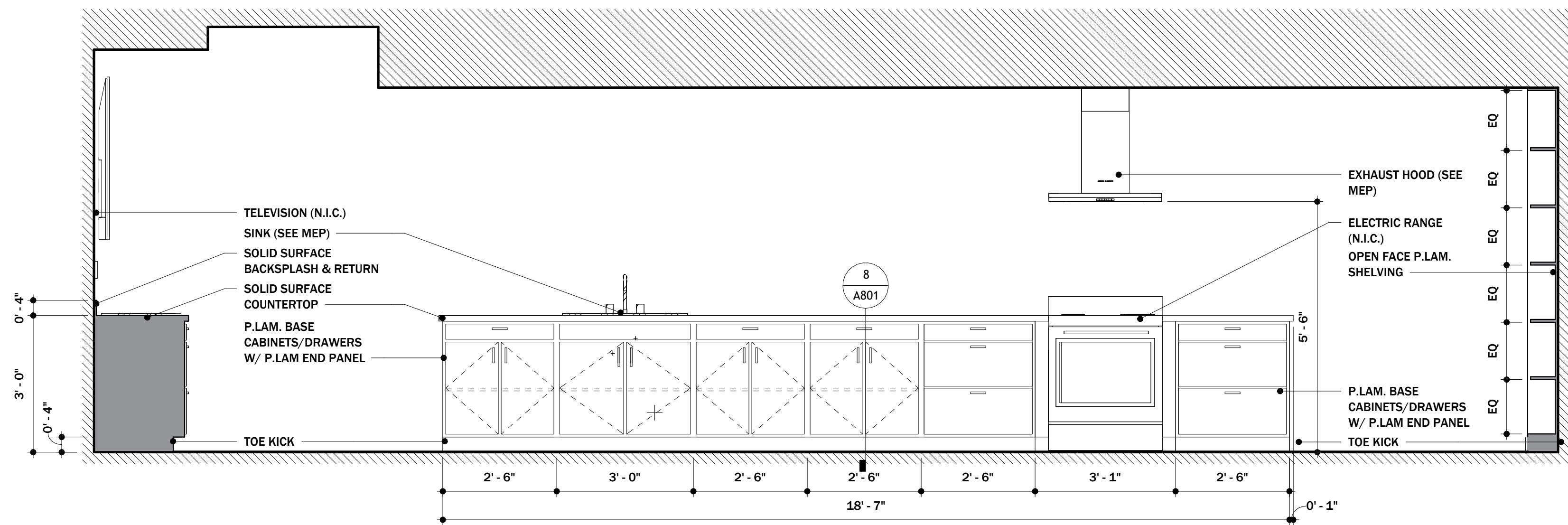
7 FINISH ELEVATION
1/4" = 1'-0"



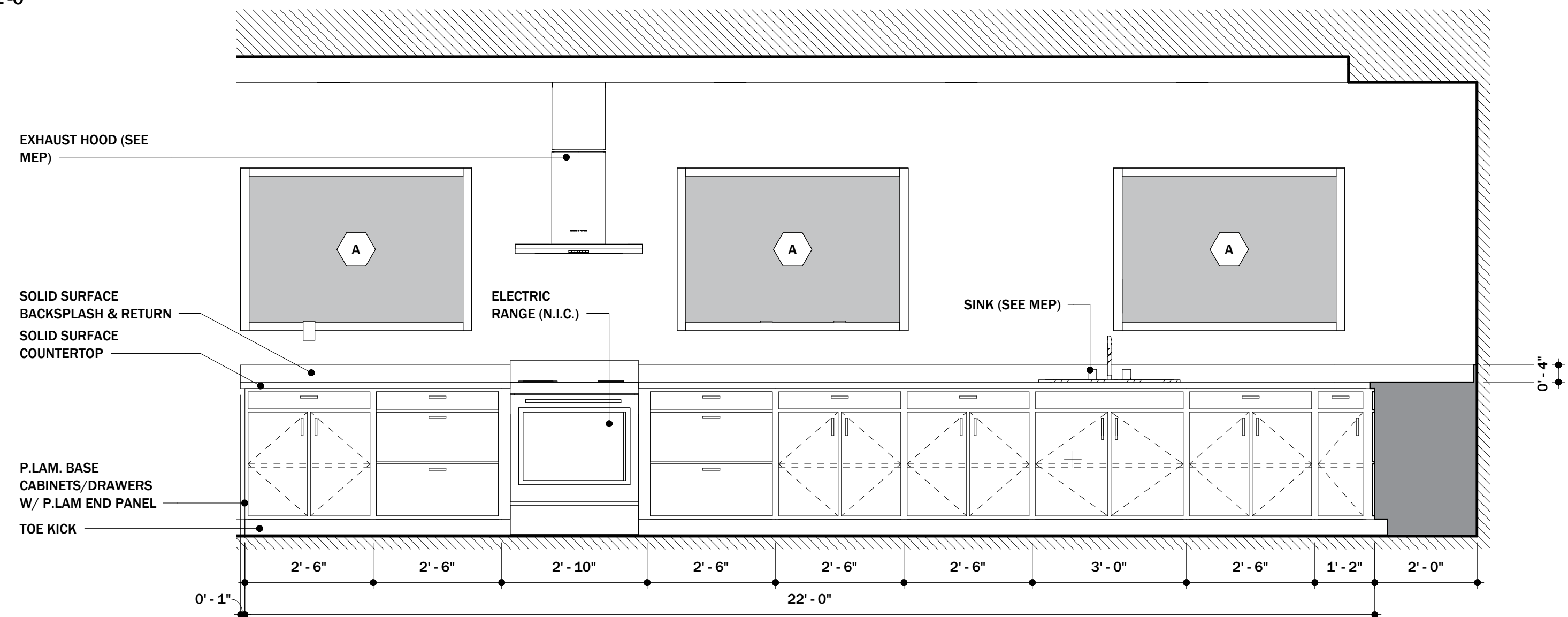
8 FINISH ELEVATION
1/4" = 1'-0"



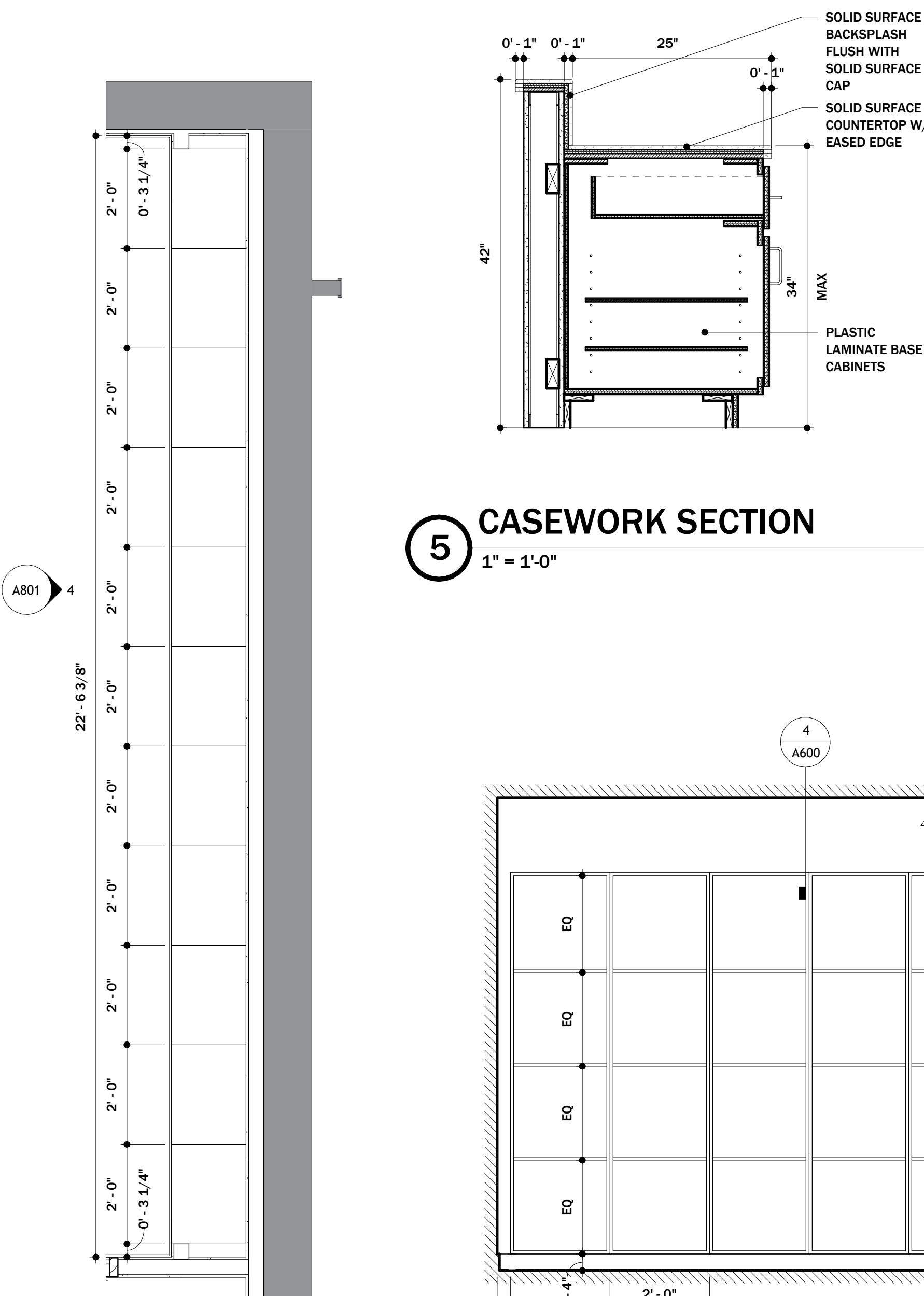
TYP DRAWING BOARD



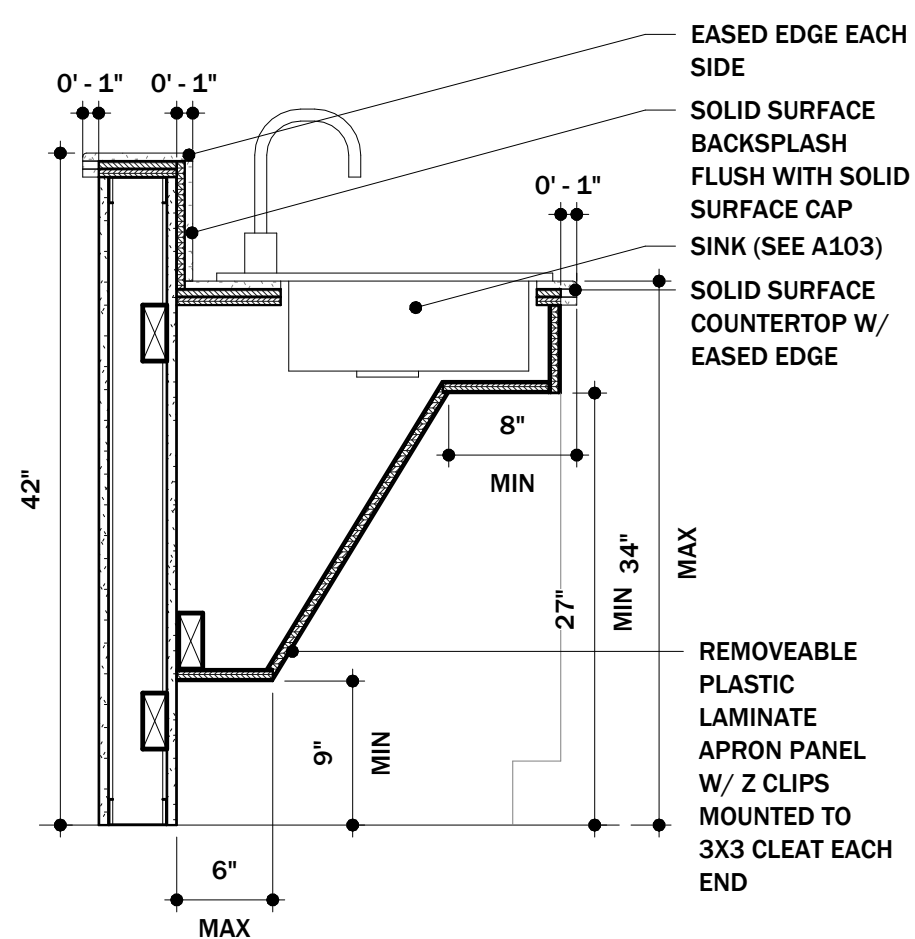
1 CASEWORK ELEVATION
1/2" = 1'-0"



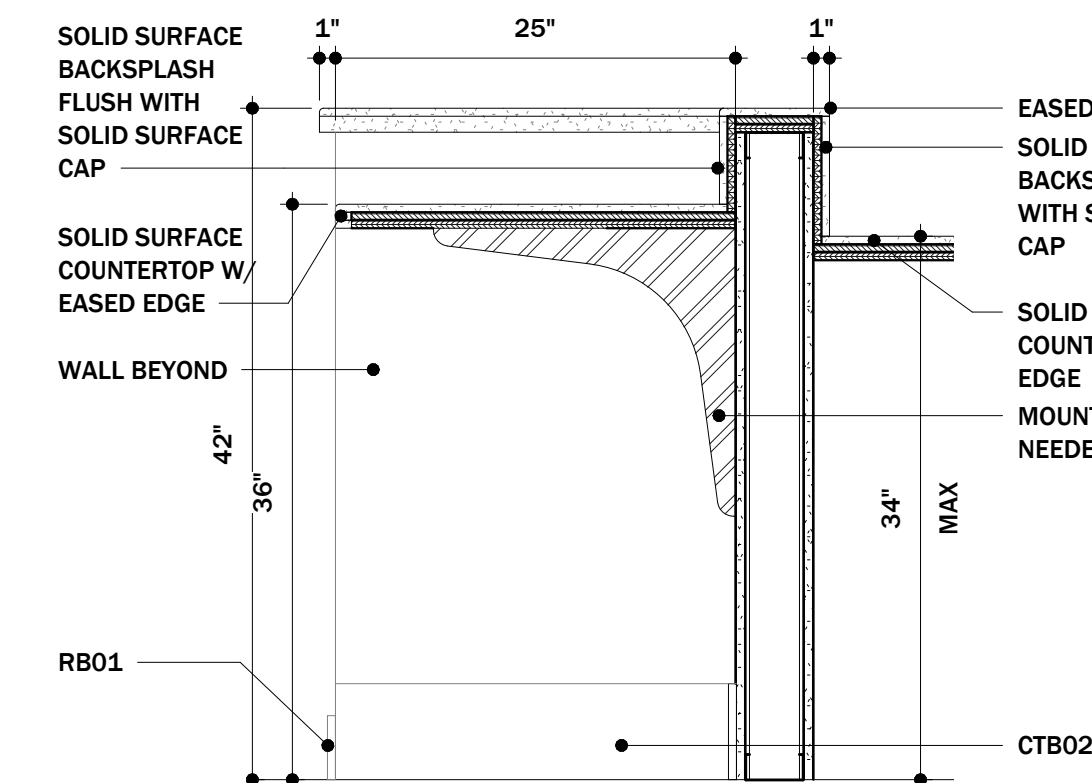
2 CASEWORK ELEVATION
1/2" = 1'-0"



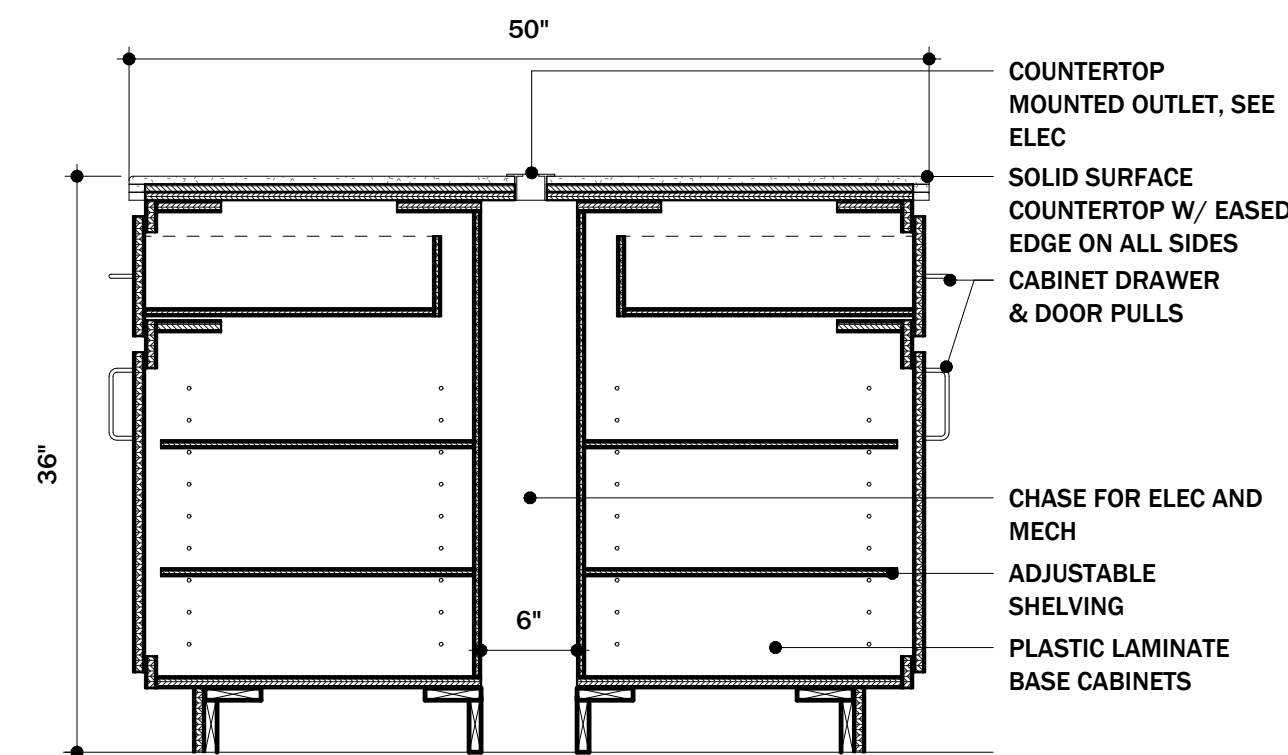
5 CASEWORK SECTION
1" = 1'-0"



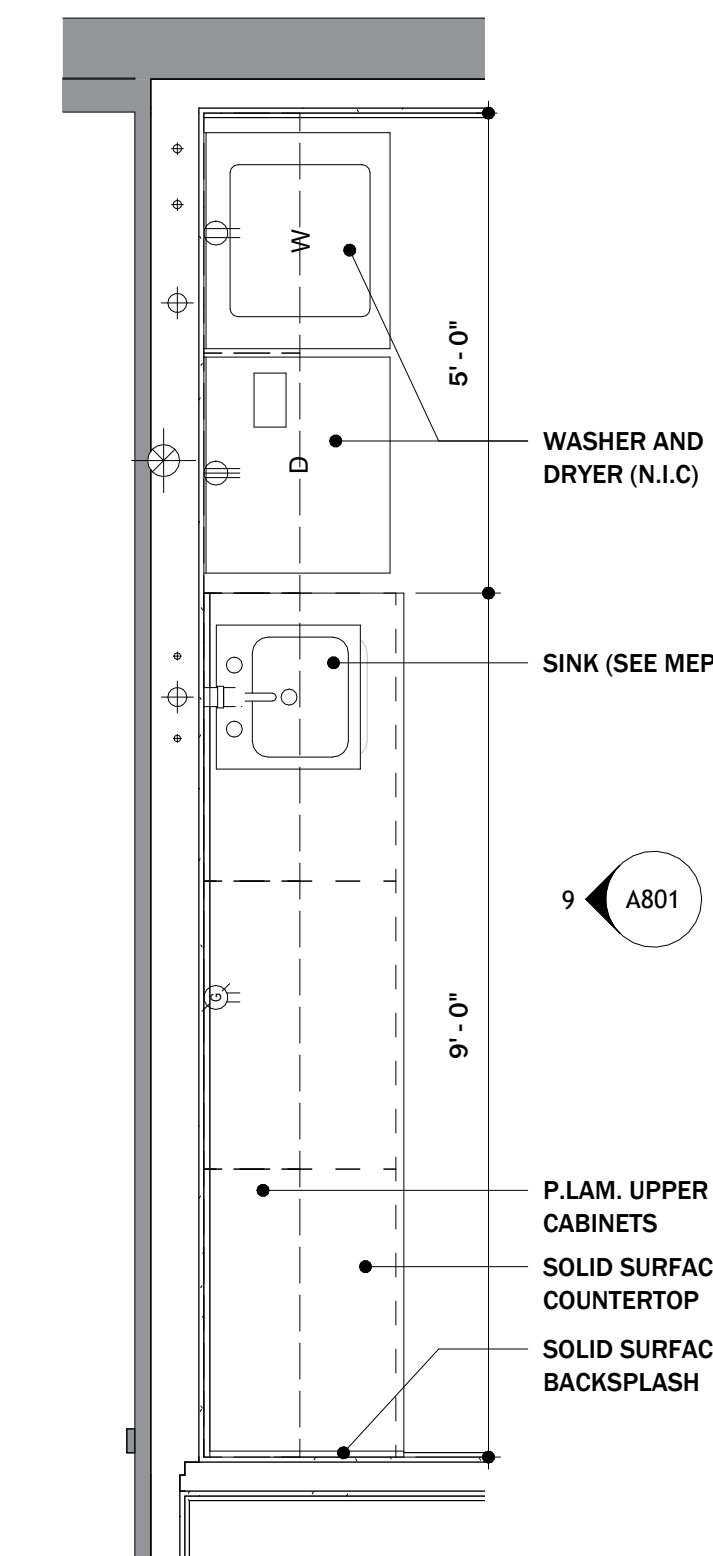
6 CASEWORK SECTION
1" = 1'-0"



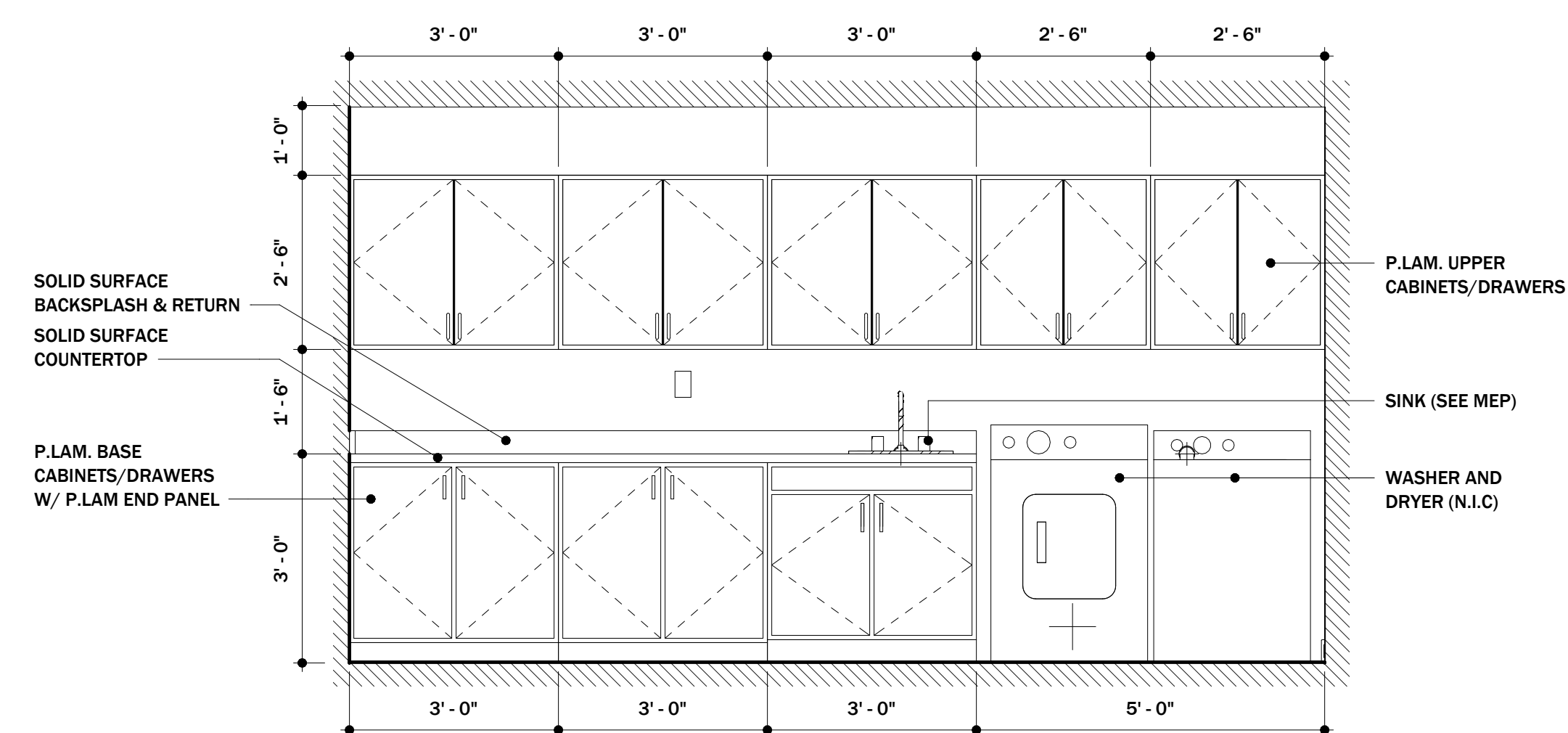
7 CASEWORK SECTION
1" = 1'-0"



8 CASEWORK SECTION
1" = 1'-0"

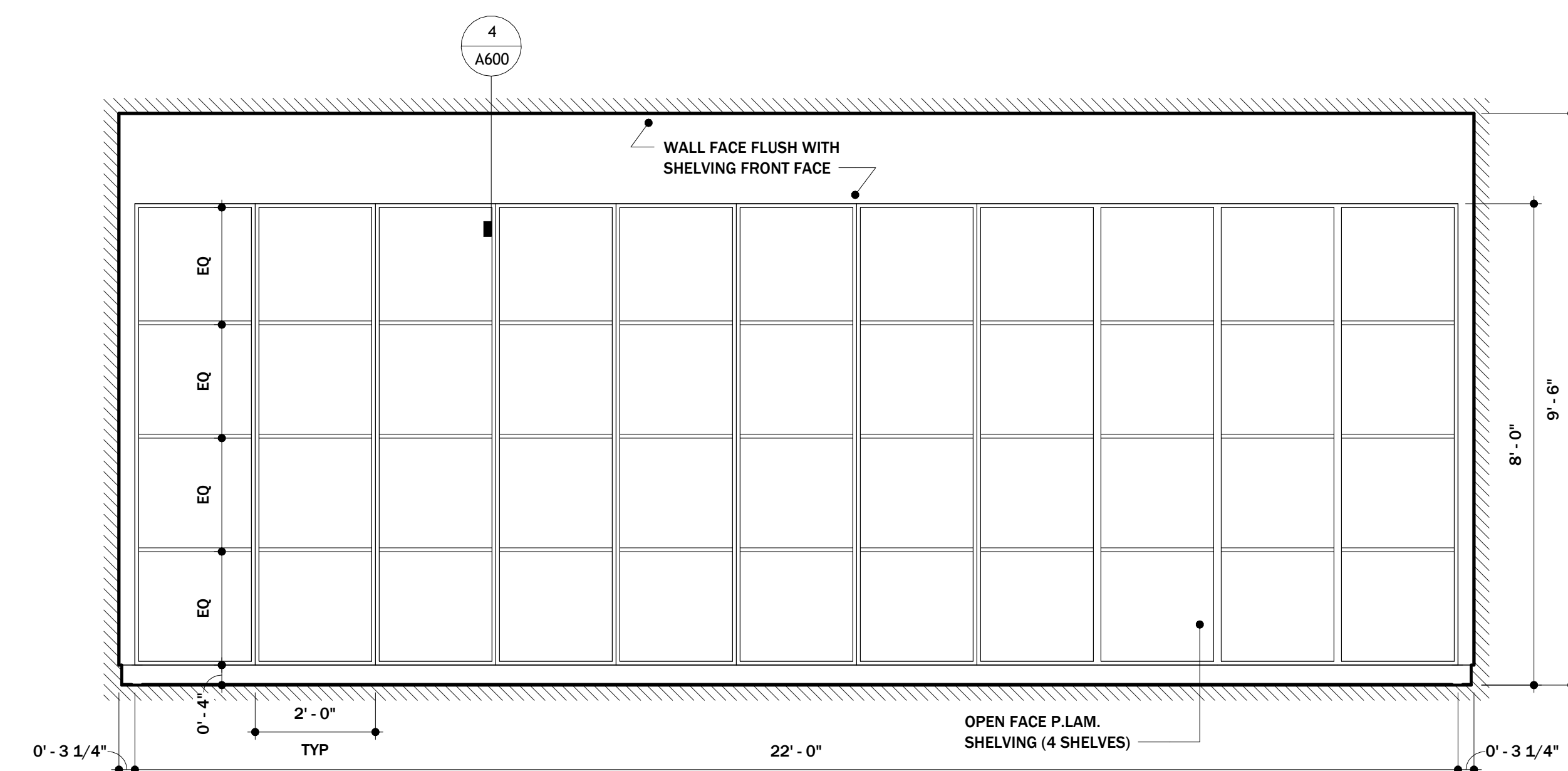


12 ENLARGED CASEWORK PLAN
1/2" = 1'-0"

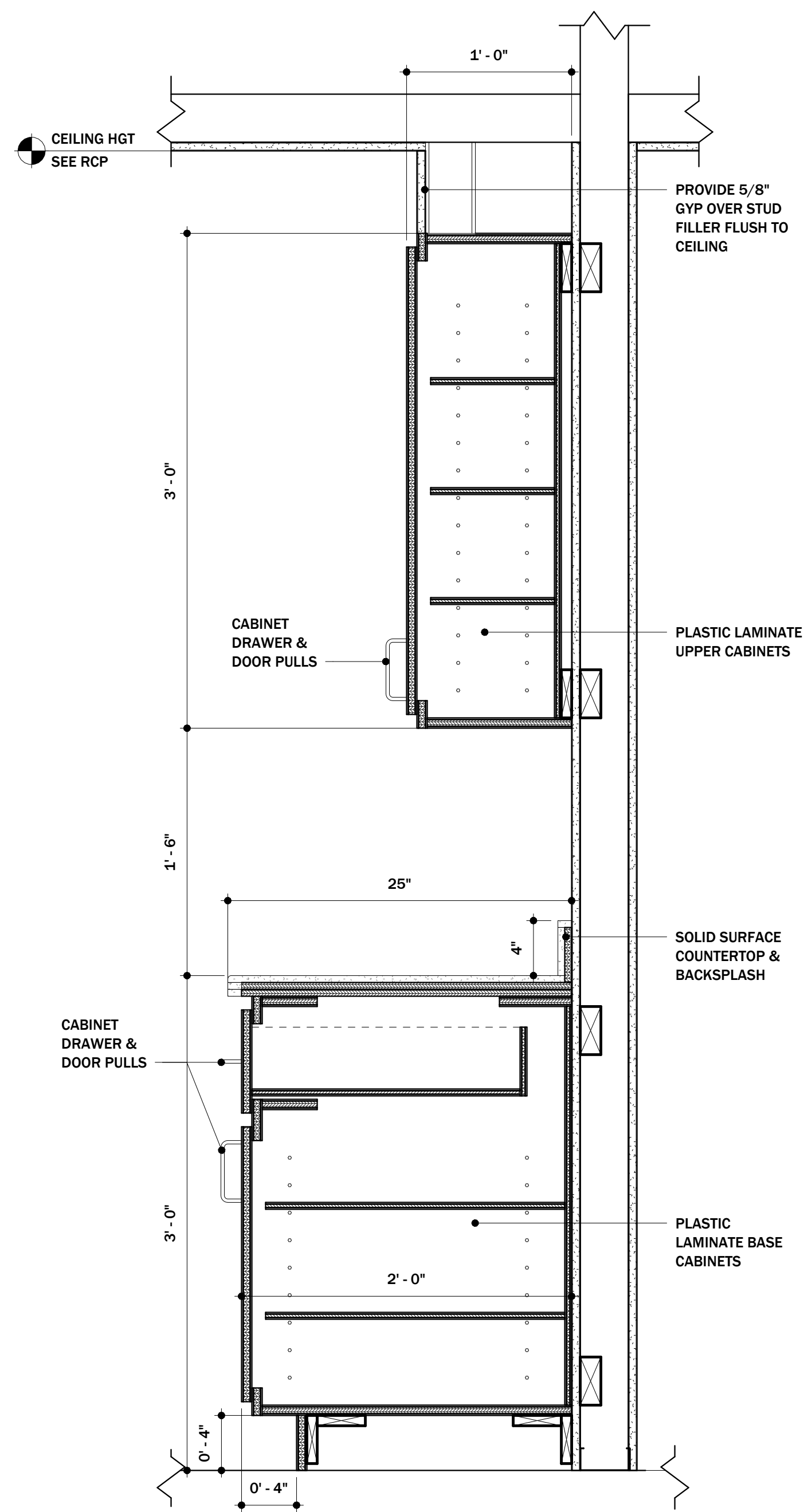


9 CASEWORK ELEVATION 11
1/2" = 1'-0"

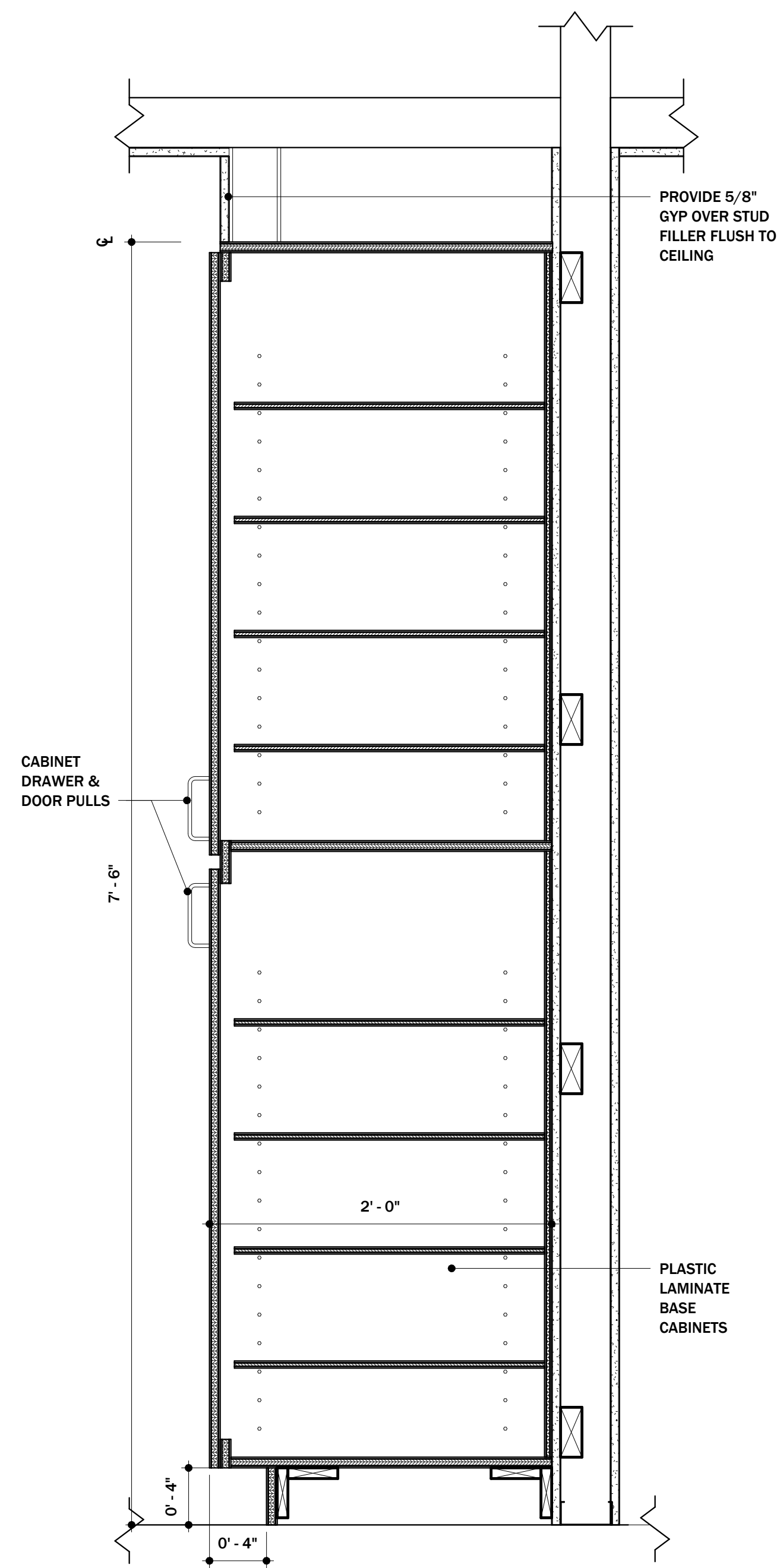
3 ENLARGED CASEWORK PLAN
1/2" = 1'-0"



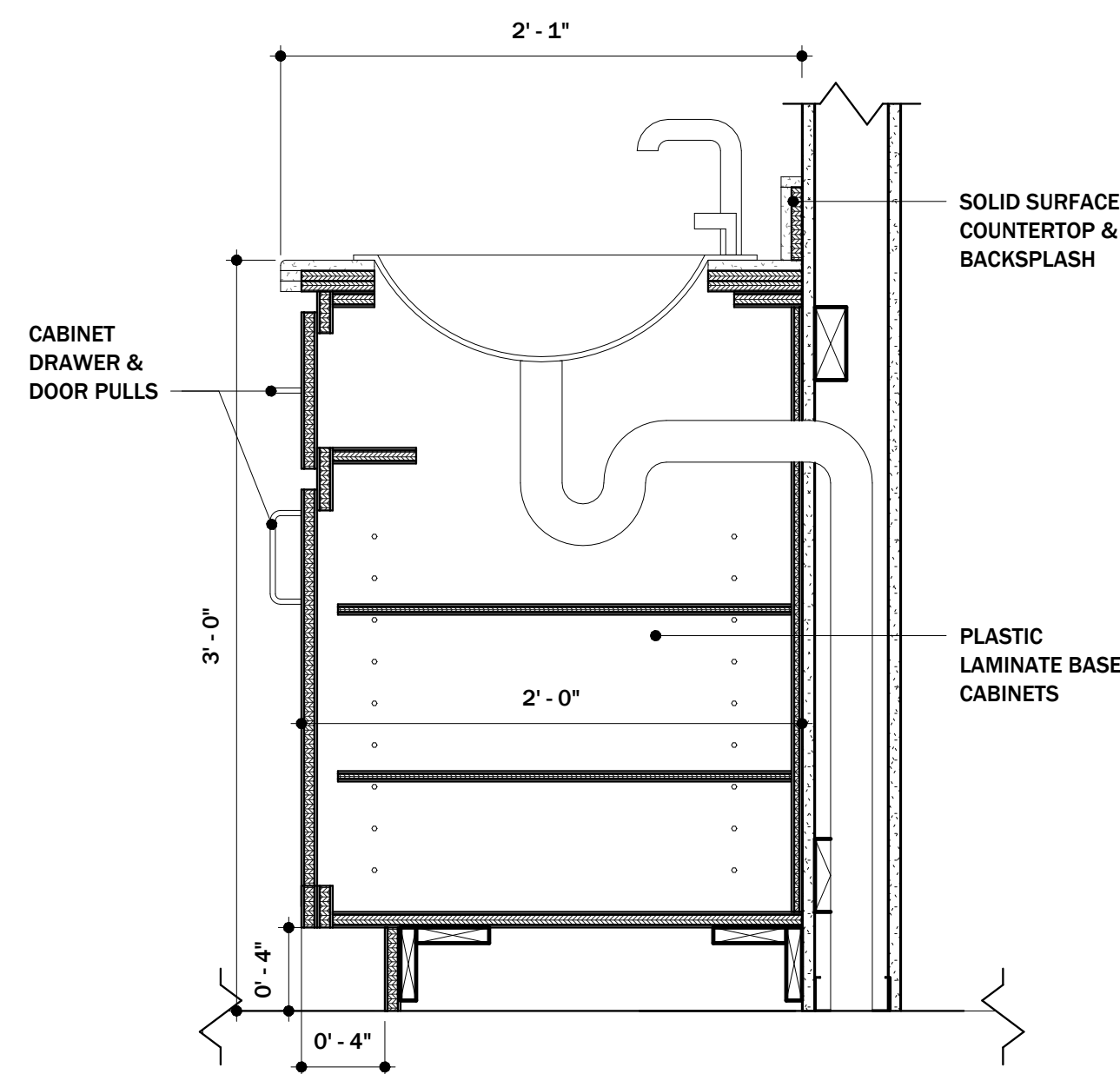
4 CASEWORK ELEVATION
1/2" = 1'-0"



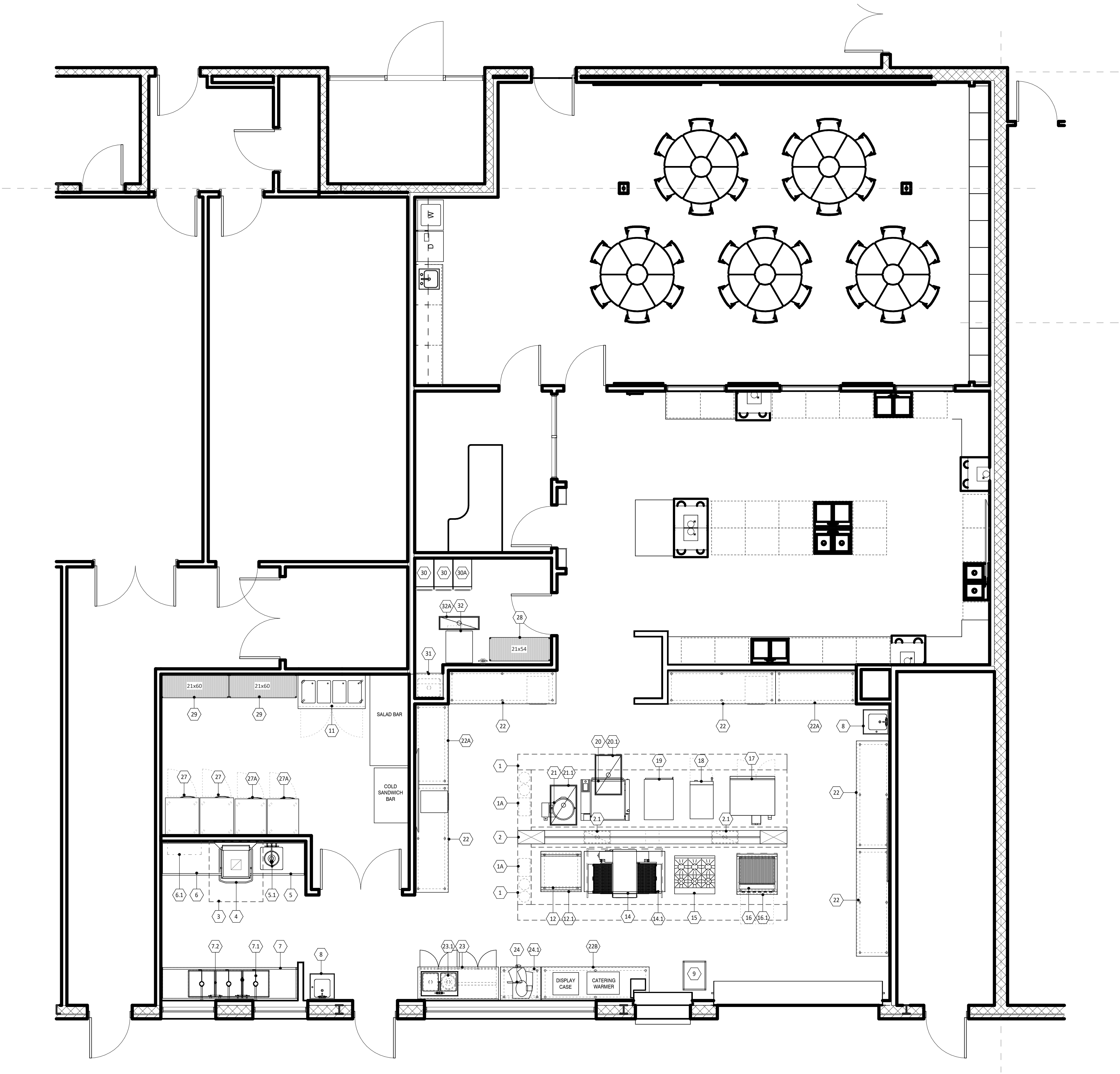
1 TYPICAL CABINET SECTION - BASE & UPPER
1 1/2" = 1'-0"



2 TYPICAL CABINET SECTION - TALL
1 1/2" = 1'-0"



3 TYPICAL CABINET SECTION - VANITY
1 1/2" = 1'-0"



KITCHEN EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"

EQUIPMENT LIST			
ITEM NO.	QTY.	ITEM DESCRIPTION	ITEM REMARKS
1	1	EXHAUST HOOD SYSTEM	
1.1	2	EXHAUST FAN	
1.2	1	MAKE UP AIR	
1A	2	FIRE SUPPRESSION SYSTEM	
2	1	UTILITY DISTRIBUTION SYSTEM	
2.1	2	FLOOR TROUGH	
3	1	CONDENSATE EXHAUST HOOD	
3.1	1	EXHAUST FAN	
4	1	DISHWASHER	
5	1	SOILED DISHTABLE	
5.1	1	DISPOSER	
6	1	CLEAN DISHTABLE	
6.1	1	S/S WALL SHELVES	
7	1	THREE (3) COMPARTMENT SINK	
7.1	3	DRAIN LEVER	
7.2	2	SPLASH MOUNT FAUCET	
8	2	HAND SINK	
9	1	PAN RACK	BY OWNER
10	-	OPEN NUMBER	
11	1	SERVING COUNTER-HOT	
12	1	36" GRIDDLE	
12.1	1	EQUIPMENT STAND	
13	-	OPEN NUMBER	
14	1	CONVEYOR OVEN	
14.1	1	EQUIPMENT STAND	
15	1	6 BURNER RANGE	
16	1	CHARBROILER	
16.1	1	EQUIPMENT STAND	
17	1	CONVECTION OVEN-ELECTRIC	TOP UNIT
17.1	1	CONVECTION OVEN-ELECTRIC	BOTTOM UNIT
18	2	COMBI OVEN - STACKED	
19	1	COOK/HOLD CABINET	
20	1	TILTING SKILLET	
20.1	1	FLOOR TROUGH	
21	1	KETTLE	
21.1	1	FLOOR TROUGH	
22	5	S/S WORK TABLE	
22A	2	S/S WORK TABLE	
22B	1	S/S WORK TABLE	
23	1	CABINET BASE WORK TABLE w/ SINK	
23.1	1	DISPOSER	
24	1	MEAT SLICER	
24.1	1	EQUIPMENT STAND	
25-26	-	OPEN NUMBER	
27	2	REACH-IN REFRIGERATOR/ FREEZER	BY OWNER
27A	2	REACH-IN REFRIGERATOR/ FREEZER	BY OWNER
28	LOT	SHELVING UNIT	
29	LOT	SHELVING UNIT	
30	2	UTILITY CART	BY OWNER
30A	1	UTILITY CART	
31	1	MDP SINK CABINET	
32	1	ICE MAKER w/ BIN	
32A	1	FLOOR TROUGH	

RIS Culinary Arts Renovation

DATE	Issue Date
PROJ. NO.	2021-39
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REVISION	DATE
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KITCHEN
EQUIPMENT
PLAN

SHEET NO.

QF100

ELECTRICAL NOTES

1. ELECTRICAL SYSTEM IS DESIGNED FOR 208 VOLTS, 1-PHASE, 4 WIRE AT 60 HERTZ.
2. ELECTRICAL RUGHS-IN SHOWN PERTAIN TO AND ARE FOR FLOOR, SCHEDULED EQUIPMENT ONLY. SEE ARCHITECTURAL AND/OR ENGINEERING PLANS FOR ANY ADDITIONAL RUGH-IN REQUIREMENTS.
3. THIS ELECTRICAL PLAN IS INTENDED TO SHOW RUGH-IN LOCATIONS AND LOAD REQUIREMENTS. ALL DIMENSIONS ARE SHOWN FROM FINISHED SURFACES TO THE CENTERLINE OF THE RUGH-IN LOCATION UNLESS OTHERWISE NOTED.
4. UNLESS OTHERWISE NOTED, ALL ELECTRICAL WORK FOR MOUNTED, FLOOR OR WALL MOUNTED EQUIPMENT SHALL BE COMPLETELY WIRE BY KITCHEN EQUIPMENT DIVISION TO A JUNCTION BOX OR PULL BOX LOCATED ON THE EQUIPMENT IN AN ACCESSIBLE LOCATION. FINAL CONNECTIONS TO PANEL BOARDS TO BE THE RESPONSIBILITY OF THE E.C.
5. FINAL CONNECTIONS TO ALL EQUIPMENT AND ALL REQUIRED MATERIALS TO BE THE RESPONSIBILITY OF THE E.C.
6. E.C. TO FURNISH AND INSTALL THE FOLLOWING:
 - A. ALL JUNCTION BOXES, ELECTRICAL OUTLETS, COVER PLATES, ETC., SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODES, COVER PLATES, ETC., IN DISHROOMS, OR AS INDICATED ON BOXES, MUST BE VAPOR-PROOF.
 - B. SHUNT TRIP CIRCUIT BREAKERS/CONTACTORS OR DISCONNECTS FOR TRIP CIRCUIT, SYSTEM SHUT OFF OF FOODSERVICE EQUIPMENT (E.G., FOOD WASTE DISPOSAL) AS REQUIRED BY N.Y.P.A.-96 AND LOCAL CODES.
 - C. DISCONNECTS OR OTHER DEVICES AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES.
7. WHEN APPLICABLE, E.C. TO INSTALL F.S.E.C.-PROVIDED ELECTRICAL COMPONENTS, PROVIDE ALL CONDUIT AND WIRING, AND INTERCONNECT BETWEEN THE FOLLOWING:
 - A. REMOTE REFRIGERATION EQUIPMENT TO EVAPORATOR COILS.
 - B. CONTROL PANELS TO WATER-TYPE VENTILATORS AND EXHAUST OR SUFFY FANS PER MANUFACTURER'S SPECIFICATIONS.
 - C. KITCHEN EXHAUST HOOD/VENTILATORS TO FIRE CONTROL SYSTEM AND SHUT-OFFS.
8. ALL ELECTRICAL AMPERAGE NOTED ON RUGH-IN SCHEDULE INDICATES FULL LOAD AMP DRAW - NOT RECOMMENDED CIRCUIT BREAKER SIZE. FOLLOW SCHEDULE FOR PROPER BREAKER SIZING WITH THIS INFORMATION.
9. PEDESTAL RECEPTACLES ARE NOT TO EXCEED A 12" AFF.
10. E.C. TO FURNISH AND INSTALL GROUND FUL RECEPTACLE OR FURNISH GROUND FAULT CIRCUIT BREAKER FOR ANY RECEPTACLE WITHIN FIVE FEET (5') OF SINK.

ABBREVIATIONS

ABBREV.	DESCRIPTION
ADD'L	ADDITIONAL
AFC	ABOVE FINISHED CEILING
AFB	ABOVE FINISHED FLOOR
AMP	AMPERAGE
BFC	BELOW FINISHED CEILING
BTC	BRANCH TO CONNECTION
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CW	COLD WATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
DFA	DROP SERVICE FROM ABOVE
E.C.	ELECTRICAL CONTRACTOR
F	DEGREES FAHRENHEIT
FD	FLOOR DRAIN
FF	FINNISH FLOOR DRAIN
FLA	FULL LOAD AMPS
FLUSH	MOUNT ITEM FLUSH WITH SURFACE
F.S.	FLOOR SINK
F.E.C.	FOODSERVICE EQUIPMENT CONTRACTOR
FT	FLOOR TROUGH
GA	GAUGE
G.C.	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GHT	GALIRON HOSE THREAD
GPM	GALLONS PER MINUTE
HD	HUB DRAIN
HGT.	HEIGHT
HP	HORSEPOWER
HR	HOUR
H.V.A.C.	HEATING, VENTILATION AND AIR CONDITIONING
HW	HOT WATER
in.	INCH
KW	KILOWATT
MBTU	1,000 BTU
M.C.	MECHANICAL CONTRACTOR
MFD	MOUNTED
N.I.F.S.E.C.	NOT IN FOODSERVICE EQUIPMENT CONTRACT
NPT	NATIONAL PIPE THREAD
P.C.	PLUMBING CONTRACTOR
PED	PEDESTAL-MOUNTED
PH	PHASE
R.C.	ROOFING CONTRACTOR
RECP.	RECEPTACLE
REQ/MTS	REQUIREMENTS
S.C.	STRUCTURAL CONTRACTOR
S/S	STAINLESS STEEL
STUB-UP	STUB SERVICE UP FROM FINISHED FLOOR

NOTE:

EXISTING AND/OR EQUIPMENT PROVIDED BY OTHERS
MAY REQUIRE ADDITIONAL ROUGH-INS NOT SHOWN IN
THESE PLANS. CONFIRM UTILITY REQUIREMENTS WITH
PROVIDER.

MASTER UTILITY SCHEDULE

ELECTRICAL														PLUMBING												
														SUPPLY			WASTE				GAS					
ITEM NO.	QTY.	ITEM DESCRIPTION	ITEM REMARKS	ELECT. NO.	AMPS	WATTS	HP	VOLTS	PHASE	CONN TYPE	PLUG TYPE	ELECT. HGT. (AFF)	ELECTRICAL REMARKS	PLUMB. NO.	CW SIZE	HW SIZE	PLUMB. HGT. (AFF)	DIRECT WASTE SIZE	DIRECT WASTE HGT. (AFF)	INDIRECT WASTE SIZE	INDIRECT WASTE HGT. (AFF)	MECH. NO.	GAS SIZE	BTU/HR	GAS HGT. (AFF)	PLUMBING REMARKS
1	1	EXHAUST HOOD SYSTEM											NOT IN FOODSERVICE CONTRACT. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.													
1.1	2	EXHAUST FAN											NOT IN FOODSERVICE CONTRACT. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.													
1.2	1	MAKE UP AIR											NOT IN FOODSERVICE CONTRACT. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.													NOT IN FOODSERVICE CONTRACT. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.
1A	2	FIRE SUPPRESSION SYSTEM											NOT IN FOODSERVICE CONTRACT. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.													NOT IN FOODSERVICE CONTRACT. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.
2	1	UTILITY DISTRIBUTION SYSTEM											NOT IN FOODSERVICE CONTRACT. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.													NOT IN FOODSERVICE CONTRACT. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.
2.1	2	FLOOR TROUGH											NOT IN FOODSERVICE CONTRACT. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.	P2.1				4"	+0"							STUB-UP.
3	1	CONDENSATE EXHAUST HOOD											NOT IN FOODSERVICE CONTRACT. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.													
3.1	1	EXHAUST FAN											NOT IN FOODSERVICE CONTRACT. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.													
4	1	DISHWASHER		E4	22.1			480V	3	DIRECT		+18"		P4		3/4"	+20"			5/8"	FS					P.C. TO EXTEND DRAIN LINE TO FLOOR SINK.
5	1	SOILED DISHTABLE												P5	1/2"	1/2"	+20"			2"						
5.1	1	DISPOSER		ES.1	7.7		2	120V	1	DIRECT		+18"		P5.1	1/2"		+20"	2"	+16"							P.C. TO BRANCH CW TO SOILED DISHTABLE (ITEM #5).
6	1	CLEAN DISHTABLE																								
6.1	1	S/S WALL SHELVES																								
7	1	THREE (3) COMPARTMENT SINK												P7	1/2"	1/2"	+20"			2"	FS					P.C. TO EXTEND DRAIN LINE TO FLOOR SINK.
7.1	3	DRAIN LEVER																		2"						P.C. TO CONNECT DRAIN LEVER TO 3 COMP. SINK (ITEM #7).
7.2	2	SPLASH MOUNT FAUCET													1/2"	1/2"	+20"									
8	2	HAND SINK												P8	1/2"	1/2"	+20"	1 7/8"	+16"							
9	1	PAN RACK	BY OWNER																							
10	-	OPEN NUMBER																								
11	1	SERVING COUNTER-HOT		E11	20.6	870		208V	1	CORD & PLUG	NEMA 6-30P	+18"	E.C. TO PROVIDE DUPLEX RECEP.								1"	FD				P.C. TO EXTEND DRAIN LINE TO FLOOR DRAIN.
12	1	36" GRIDDLE			19.5			480V	3	DIRECT			ELECTRICAL SERVICE FROM UTILITY DISTRIBUTION SYSTEM (ITEM #2). REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.													
12.1	1	EQUIPMENT STAND																								
13	-	OPEN NUMBER																								
14	1	CONVEYOR OVEN			37.0	18,700		208V	3	CORD & PLUG	NEMA 15-50P		ELECTRICAL SERVICE FROM UTILITY DISTRIBUTION SYSTEM (ITEM #2). REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.													
14.1	1	EQUIPMENT STAND																								
15	1	6 BURNER RANGE																					3/4"	215,000		GAS SERVICE FROM UTILITY DISTRIBUTION SYSTEM (ITEM #2). REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.
16	1	CHARBROILER																					3/4"	102,000		GAS SERVICE FROM UTILITY DISTRIBUTION SYSTEM (ITEM #2). REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.
16.1	1	EQUIPMENT STAND																								
17	1	CONVECTION OVEN-ELECTRIC	TOP UNIT		15.0	12,500	1/2	480V	3	DIRECT			ELECTRICAL SERVICE FROM UTILITY DISTRIBUTION SYSTEM (ITEM #2). REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.													
17.1	1	CONVECTION OVEN-ELECTRIC	BOTTOM UNIT		15.0	12,500	1/2	480V	3	DIRECT			ELECTRICAL SERVICE FROM UTILITY DISTRIBUTION SYSTEM (ITEM #2). REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.													
18	2	COMBI OVEN - STACKED			25.0	5,200		208V	3	CORD & PLUG	NEMA 115-30P		ELECTRICAL SERVICE FROM UTILITY DISTRIBUTION SYSTEM (ITEM #2). REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.		3/4"		+48"			1 1/4"	FT					PLUMBING SERVICE FORM UTILITY DISTRIBUTION SYSTEM (ITEM #2). REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.
19	1	COOK/ HOLD CABINET			32.0	7,590		208V	1	CORD & PLUG	NEMA 6-50P		ELECTRICAL SERVICE FROM UTILITY DISTRIBUTION SYSTEM (ITEM #2). REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.													
20	1	TILTING SKILLET			63.3	22,800		208V	3	DIRECT			ELECTRICAL SERVICE FROM UTILITY DISTRIBUTION SYSTEM (ITEM #2). REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.		3/4"	3/4"	+20"			1 1/2"	FT					P.C. TO EXTEND DRAIN LINE TO FLOOR TROUGH.
20.1	1	FLOOR TROUGH																4"	+0"							STUB-UP.
21	1	KETTLE			33.0	12,000		208V	1	CORD & PLUG	NEMA 15-60P		ELECTRICAL SERVICE FROM UTILITY DISTRIBUTION SYSTEM (ITEM #2). REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS.													STUB-UP.
21.1	1	FLOOR TROUGH																4"	+0"							STUB-UP.
22	5	S/S WORK TABLE																								
22A	2	S/S WORK TABLE																								
22B	1	S/S WORK TABLE																								
23	1	CABINET BASE WORK TABLE w/ SINK																								
23.1	1	DISPOSER		E23.1	7.7		2	120V	1	DIRECT		+18"		P23	1/2"	1/2"	+20"				3 1/2"					
24	1	MEAT SLICER		E24	5.4		1/2	120V	1	CORD & PLUG	NEMA 5-15P	+18"	E.C. TO PROVIDE DUPLEX RECEP.	P23.1	1/2"		+20"	2"	+16"							P.C. TO BRANCH CW TO CABINET BASE WORK TABLE (ITEM #23).
24.1	1	EQUIPMENT STAND																								
25-26	-	OPEN NUMBER																								
27	2	REACH-IN REFRIGERATOR/ FREEZER	BY OWNER	E27	7.6		0.5	120V	1	CORD & PLUG	NEMA 5-15P	+82"	E.C. TO VERIFY UTILITY REQ'MTS. w/ PROIDER.													
27A	2	REACH-IN REFRIGERATOR/ FREEZER	BY OWNER	E27	7.6		0.5	120V	1	CORD & PLUG	NEMA 5-15P	+82"	E.C. TO VERIFY UTILITY REQ'MTS. w/ PROIDER.													
28	LOT	SHELVING UNIT																								
29	LOT	SHELVING UNIT																								
30	2	UTILITY CART	BY OWNER																							
30A	1	UTILITY CART																								
31	1	MOP SINK CABINET																								
32	1	ICE MAKER w/ BIN		E32	7.1	820		120V	1	CORD & PLUG	NEMA 5-15P	+18"	E.C. TO PROVIDE DUPLEX RECEP.	P31	1/2"	1/2"	+36"	3 1/2"	+0"							P.C. TO EXTEND DRAIN LINE TO FLOOR DRAIN.
32A	1	FLOOR TROUGH												P32	1/2"		+60"	4"	+0"	3/4"	FD					STUB-UP.

PLUMBING NOTES

1. ROUGH-INS SHOWN PERTAIN TO AND ARE FOR FOODSERVICE FIXTURES AND EQUIPMENT ONLY. SEE ARCHITECTURAL AND/OR ENGINEERING PLANS FOR ADDITIONAL PLUMBING REQUIREMENTS.
2. THIS PLUMBING PLAN IS INTENDED TO SHOW ROUGH-IN LOCATIONS, HEIGHTS AND LOAD REQUIREMENTS. ALL DIMENSIONS SHOWN ARE FROM FINISHED SURFACES TO THE CENTERLINE OF THE ROUGH-IN LOCATION, UNLESS OTHERWISE NOTED.
3. FINAL CONNECTIONS TO ALL EQUIPMENT TO BE PERFORMED BY A P.C., INCLUDING ALL REQUIRED MATERIALS SUCH AS TAPS, VALVES, FILTERS, CHECK VALVES, PIPING, TUBING, PRESSURE REGULATING VALVES, ETC.
4. P.C. TO FURNISH AND INSTALL THE FOLLOWING:
 - A. ALL WATER, WASTE, GAS, AND STEAM SERVICE TO POINT OF ROUGH-IN AS SHOWN ON PLAN. ROUGH-INS OUTLET TO STUD 4 ABOVE, OUT OF WALL. WASTE TO BE INDICATED FROM FINISHED FLOOR TO CENTERLINE OF OUTLET. FLOOR ROUGH-INS TO STUD 1/4 IN. 4" ABOVE FINISHED FLOOR OR CURB. ALL FLOOR OPENINGS ARE TO BE SEALED WATER-TIGHT.
 - B. PRESSURE REDUCING AND/OR REGULATION VALVES FOR DISHWASHERS, HOODSTER HEATERS, AND AS OTHERWISE NOTED IN KITCHEN AREA.
 - C. ALL FLOOR SINKS, COMPLETE WITH TAP GRATE INDICATED AND REMOVABLE SEDIMENT BUCKETS, SET FLUSH WITH FINISHED FLOOR (UNLESS OTHERWISE NOTED).
 - D. ALL WASTE LINES (DIRECT OR INDIRECT) EXCEPT AS NOTED. MINIMUM DIAMETER OF LINE SHALL BE AS INDICATED ON PLAN REGARDLESS OF CONNECTION SIZE, AND SHALL BE PITCHED DOWNWARD. WASTE LINES ARE TO BE HIGH-PEAKED ABOVE FLOOR. ALL WASTE LINES SHALL HAVE ADEQUATE CLEAN-OUT PROVISIONS.
 - E. INDIRECT WASTE LINES FOR WALK-IN COOLERS/FREEZERS TO BE PITCHED AT 4 in./12 ft. (MINIMUM) AND WITH A "P"-TRAP AT THE RUN ABOVE THE FLOOR DRAIN.
 - F. HEATER TAP RATED AT 3/4 Watts PER LINEAL FOOT OF DRAIN LINE AS WELL AS INSULATION OF ALL DRAIN LINES UNLESS FREEZER COMPARTMENTS.
 - G. ALL REQUIRED GREASE TRAPS BELOW OR FLUSH WITH FLOOR.
 - H. WHEN GAS COOKING EQUIPMENT IS USED, INSTALL FIRE CONTROL GAS SHUT-OFF VALVES AS SUPPLIED BY FIRE SUPPRESSION SYSTEM CONTRACTOR.
 - I. VACUUM BREAKERS AS REQUIRED AS WELL AS INSTALLATION OF THOSE PROVIDED BY K.E.C. FOR USE WITH DISPOSERS.
 - J. INSULATION ON ALL STEAM, HOT WATER, AND CONDENSATE LINES IN THE KITCHEN AREA. ALL SUCH LINES ARE TO BE COLOR-CODED ACCORDING TO LOCAL CODES.
 - K. ALL VENT PIPES TO BE CONCEALED IN WALLS OR COLUMN CHASES. USE LOOP VENTS FOR ISLAND FIXTURES.
 - L. ALL EXPOSED PIPING AND FITTINGS IN THE KITCHEN AREA TO BE CHROME-PLATED OR STAINLESS STEEL.
 - M. ALL LINES ROUTED THROUGH EQUIPMENT SHALL NOT INTERFERE WITH INTENDED USE OR SERVICING OF EQUIPMENT.
 - N. AREA FLOOR DRAINS HAVE NOT BEEN SHOWN OR NOTED. QUANTITIES AND LOCATIONS TO BE COORDINATED WITH G.C.



RIS Culinary Arts Renovation

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UTILITY SCHEDULES

SHEET NO.

QF200

PLUMBING GENERAL NOTES

- A COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
- B THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTIONATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL AND LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- C WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
- D ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
- E COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- G OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
- H CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
- I IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB, CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.
- J WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
- K ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- L ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
- M ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
- N IN ACCORDANCE WITH K.R.S., ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF THE KENTUCKY DIVISION OF PLUMBING AND/OR THE DIVISION OF WATER. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS.
- O LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
- P ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- Q THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER, ETC.)
- R INSTALL ALL PIPING AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES.
- S SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.
- T THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.
- U WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL, INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
- V DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.
- W ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- X DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- Y VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILING. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
- Z ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- AA WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.
- AB THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND 2008 IECC.
- AC THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND ASHRAE 90.1-2007.
- AD WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

PLUMBING DEMOLITION NOTES

- A THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELD VERIFY EXACT REQUIREMENTS.
- B DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.
- C ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.
- D ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
- E HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (UON) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- F COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.
- G ALL OUTAGES SHALL BE SCHEDULED THROUGH THE UK CPMD PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.
- H ALL DUCTWORK, PIPING, CONDUIT, ETC. SHALL BE INSTALLED A MINIMUM OF 4" ABOVE THE TOP OF THE CEILING GRID PER UK STANDARDS.

ABBREVIATIONS

AC	ALTERNATING CURRENT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURISDICTION
AMP	AMPERE (AMP, AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APD	AIR PRESSURE DROP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
C.I.	CAST IRON
CLG	CEILING
CLR	CLEAR
CO	CARBON MONOXIDE
COND	CONDENS (-ER, -ING, -ATION, -ATE)
CONT	CONTINU (-ED, -OUS)
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CV	VALVE FLOW COEFFICIENT
dB	DECIBEL
DB	DRY BULB
DC	DIRECT CURRENT
DD	DUCT SMOKE DETECTOR
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE (-S)
DIA	DIAMETER (-S)
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVA (-TION, -TOR)
ENGR	ENGINEER
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EVAP	EVAPORAT (-E, -ING, -ED, -OR, -ION)
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EXT	EXTERIOR
FA	FREE AREA

PLUMBING PHASING NOTES

- A THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

PLUMBING HAZARDOUS MATERIALS...

- A THE CONTRACTOR IT IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.
- B CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.
- C IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM IMMEDIATELY.
- D THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.
- E THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

ABBREVIATIONS (CONTINUED)

FL	FLOOR
FLA	FULL LOAD AMPS
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET OR FOOT
FUT	FUTURE
FV	FACE VELOCITY
GA	GAGE/GAUGE
GAL	GALLON (-S)
GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
H	HUMIDITY
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	H (-ORSEPOWER, -EAT PUMP)
HR	HOUR (-S)
HVAC	HEATING, VENTILATING, & AIR-CONDITIONING
Hz	HERTZ
ID	I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)
IN	INCH (-ES)
INSUL	INSULAT (-ED, -ION)
INT	INTER (-IOR, -ERVAL)
IPS	IRON PIPE SIZE
kW	KILOWATT
kWh	KILOWATT HOUR
LBS	POUNDS
LF	LINEAR FEET/FOOT
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU PER HOUR [THOUSANDS]
MCA	MINIMUM CIRCUIT AMPS
MPG	MANUFACTURER
MIN	MIN (-IMUM, -UTE)
MISC	MISCELLANEOUS
MOCp	MAXIMUM OVERCURRENT PROTECTION [AMPS]
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NOISE CRITERIA OR NORMALLY CLOSED
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
NIC	NOT IN CONTRACT

ABBREVIATIONS (CONTINUED)

NO	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DI (-AMETER, -HENSION)
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OR	OPEN RECEPTACLE
OZ	OUNCE (-S)
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE [ELECTRICAL]
PLBG	PLUMBING
PPM	PARTS PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SQ	SQUARE
SQ FT	SQUARE FEET OR FOOT
SQ IN	SQUARE INCH OR INCHES
TAB	TESTING AND BALANCING
TBD	TO BE DETERMINED
TE	TOP ELEVATION
TEMP	TEMPERATURE
TPA	TRAP PRIMER ADAPTER
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT (-AGE, -S)
VAR	VARI (-ABLE, -IES)
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
W	WATT (-AGE, -S)
WB	WET BULB
WBT	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP
WT	WEIGHT
W/	WITH
W/O	WITHOUT
%	PERCENT
ΔP	DIFFERENTIAL PRESSURE
ΔT	TEMPERATURE DIFFERENCE
¢	CENTERLINE

GENERAL SYMBOLS

	TAGGED NOTE DESIGNATOR
	REVISION TRIANGLE
	ROOM TAG
	EQUIPMENT TAG
	DOMESTIC WATER RISER TAG
	SANITARY, WASTE, & VENT RISER TAG
	FIRE SUPPRESSION RISER TAG
	POINT OF CONNECTION / CONNECT TO EXISTING
	POINT OF DEMOLITION
--D(XXX)--	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
--E(XXX)--	EXISTING PIPING - (XXX) DENOTES SYSTEM
--A(XXX)--	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM

VALVE SYMBOL LEGEND

	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	AUTOMATIC AIR VENT (AAV)
	MANUAL AIR VENT (MAV)
	MANUAL BALANCING VALVE (BV)
	BALL VALVE
	BUTTERFLY VALVE
	TRIPLE DUTY VALVE (TDV)
	STRAINER
	MANUAL ISOLATION VALVE
	GLOBE VALVE
	OS&Y (GATE) VALVE
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
	AUTO-FLOW CONTROL VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY

PLUMBING PIPING LEGEND

	PIPE ELBOW TURNING UP
	PIPE ELBOW TURNING DOWN
	PIPE TEE; CONNECTION ON TOP
	PIPE TEE; CONNECTION ON BOTTOM
	PIPE CAP
—AVT—	ACID VENT
—AW—	ACID WASTE
—CA—	COMPRESSED AIR
—CA/E—	COMBUSTION AIR INTAKE/EXHAUST
—CBS/R—	CHILLED BEAM SUPPLY/RETURN
—CD—	CONDENSATE DRAIN
—CO2—	CARBON DIOXIDE
—CST—	CLEAN STEAM PIPING
-- -- -- --	DOMESTIC COLD WATER (DCW)
-- -- -- --	DOMESTIC HOT WATER (DHW)
—DHW— —DHW(#°F)—	
-- -- -- --	RECIRCULATED DOMESTIC HOT WATER (DHR)
—DHR— —DHR(#°F)—	
—HPC—	HIGH PRESSURE STEAM CONDENSATE
—HPS(#)—	HIGH PRESSURE STEAM; (#) DENOTES PRESSURE
—HPS/R—	HEAT PUMP WATER SUPPLY/RETURN
—HRS/R—	HEAT RECOVERY SUPPLY/RETURN PIPING
—HWS/R—	HEATING WATER SUPPLY/RETURN
—LPC—	LOW PRESSURE STEAM CONDENSATE
—LPS(#)—	LOW PRESSURE STEAM; (#) DENOTES PRESSURE
—MPC—	MEDIUM PRESSURE STEAM RETURN
—MPS(#)—	MEDIUM PRESSURE STEAM; (#) DENOTES PRESSURE
—SPD—	STEAM CONDENSATE PUMPED DISCHARGE
—SVT—	STEAM VENT PIPING

PLUMBING SYMBOL LEGEND

	FLEXIBLE PIPE CONNECTION
	FLOW METER (VENTURI)
	PIPING UNION
	FLOW SWITCH
	PRESSURE SWITCH
	TAMPER SWITCH
	THERMOMETER
	PETE'S PLUG; TEMPERATURE/PRESSURE PORT



RIS CULINARY ARTS
RENOVATION
RUSSELVILLE, KY

DATE	1/1/2025
PROJ. NO.	24-23
DRAWN BY:	Author
REVISION	DATE

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PLUMBING
LEGEND

SHEET NO.

P000

Sheet List - Plumbing	
SHEET #	SHEET NAME
P000	PLUMBING LEGEND
P100	PLUMBING - NEW WORK - UNDERSLAB - OVERALL PLAN
P101	PLUMBING - NEW WORK - UNDERSLAB - ENLARGED FLOOR PLAN
P200	PLUMBING - NEW WORK - ABOVE SLAB - OVERALL PLAN
P201	PLUMBING - NEW WORK - ABOVE SLAB - ENLARGED FLOOR PLAN
P300	PLUMBING - NEW WORK - ROOF PLAN
P400	PLUMBING - DETAILS, SCHEMATICS, AND SCHEDULES
P500	PLUMBING RISER
P0100	PLUMBING - DEMOLITION - UNDERSLAB - OVERALL PLAN
P0101	PLUMBING - DEMOLITION - UNDERSLAB - ENLARGED FLOOR PLAN
P0200	PLUMBING - DEMOLITION - ABOVE SLAB - OVERALL PLAN
P0201	PLUMBING - DEMOLITION - ABOVE SLAB - ENLARGED FLOOR PLAN
P0300	PLUMBING - DEMOLITION - ROOF PLAN

APPLICABLE BUILDING CODES		
APPLICABLE BUILDING CODES	DOCUMENT	YEAR
ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	ANSI A117.1	2009
FIRE SPRINKLER CODE	NFPA 13	2013
INTERNATIONAL BUILDING CODE (IBC)	STATE EDITION	2015
INTERNATIONAL ENERGY CONSERVATION CODE (IECC) OR ASHRAE 90.1	STATE EDITION	2012
INTERNATIONAL FIRE CODE (IFC)	STATE EDITION	2015
INTERNATIONAL FUEL GAS CODE (IFGC)	STATE EDITION	2015
INTERNATIONAL MECHANICAL CODE (IMC)	STATE EDITION	2015
INTERNATIONAL PLUMBING CODE (IPC)	STATE EDITION	2015
INTERNATIONAL EXISTING BUILDING CODE (IEBC)	STATE EDITION	2009
NATIONAL ELECTRIC CODE (NEC)	NFPA 70	2017
NATIONAL FIRE ALARM & SIGNALING CODE	NFPA 72	2013
UNIFORM STATEWIDE BUILDING CODE		2018

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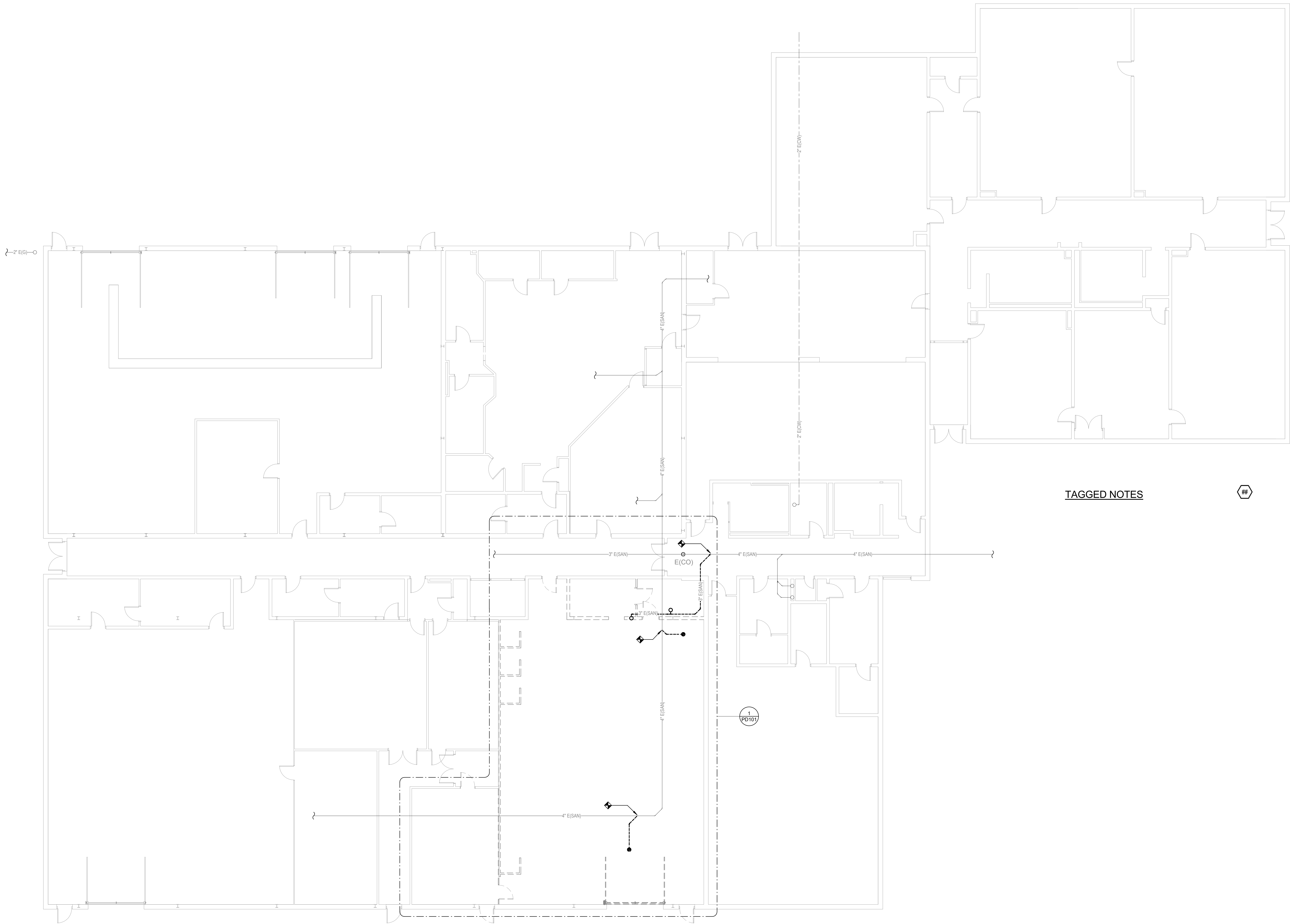
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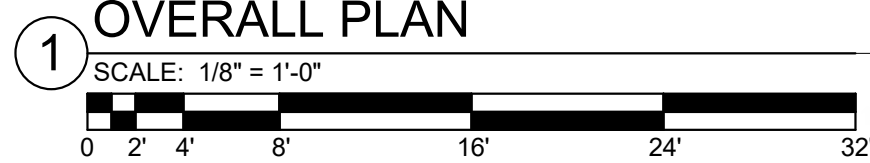
PLUMBING -
DEMOLITION
-
UNDERSLAB
- OVERALL
PLAN

SHEET NO.

PD100



PLUMBING - DEMOLITION - UNDERSLAB -
OVERALL PLAN



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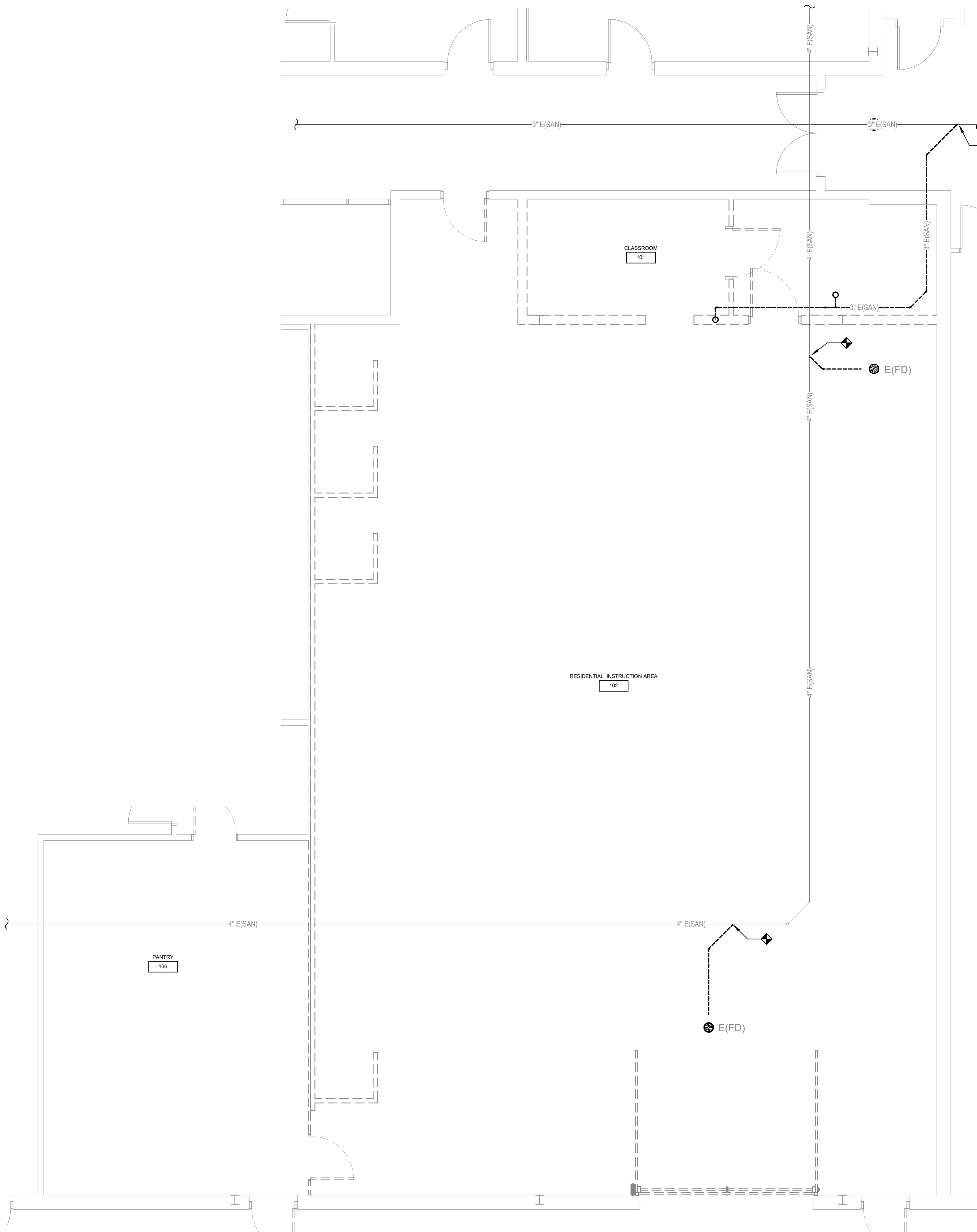
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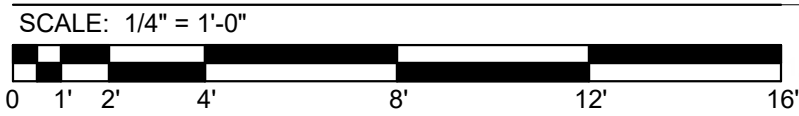
PLUMBING -
DEMOLITION
-
UNDERSLAB
- ENLARGED
FLOOR PLAN

SHEET NO.

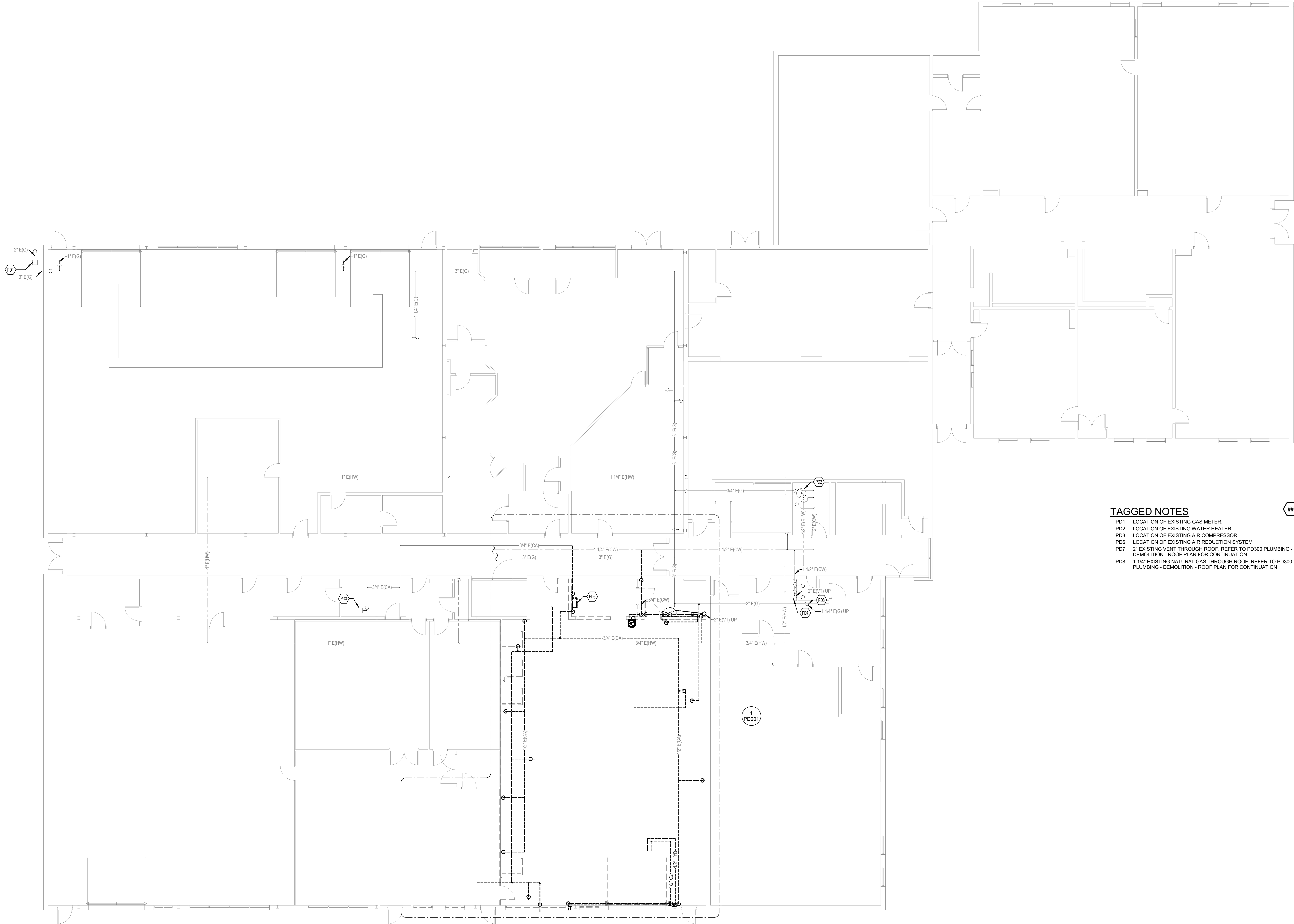
PD101



1
1 PD101
PLUMBING - DEMOLITION - UNDERSLAB -
ENLARGED VIEW



RIS CULINARY ARTS
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TAGGED NOTES

- PD1 LOCATION OF EXISTING GAS METER.
PD2 LOCATION OF EXISTING WATER HEATER
PD3 LOCATION OF EXISTING AIR COMPRESSOR
PD6 LOCATION OF EXISTING AIR REDUCTION SYSTEM
PD7 2" EXISTING VENT THROUGH ROOF. REFER TO PD300 PLUMBING - DEMOLITION - ROOF PLAN FOR CONTINUATION
PD8 1 1/4" EXISTING NATURAL GAS THROUGH ROOF. REFER TO PD300 PLUMBING - DEMOLITION - ROOF PLAN FOR CONTINUATION

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PLUMBING -
DEMOLITION
- ABOVE
SLAB -
OVERALL
PLAN

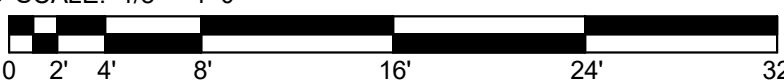
SHEET NO.

PD200

PLUMBING - DEMOLITION - ABOVE SLAB PLAN
- OVERALL PLAN

1

SCALE: 1/8" = 1'-0"



TAGGED NOTES

- PD4 3/8" EXISTING COMPRESSED AIR DROP
PD5 EXISTING NATURAL GAS PIPING TO HEATER
PD6 LOCATION OF EXISTING AIR REDUCTION SYSTEM
PD7 2" EXISTING VENT THROUGH ROOF. REFER TO PD300 PLUMBING - DEMOLITION - ROOF PLAN FOR CONTINUATION
PD9 ABANDONED OXYGEN AND ACETYLENE PIPING TO BE DEMOLISHED

#

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RENOVATION
RUSSELVILLE, KY

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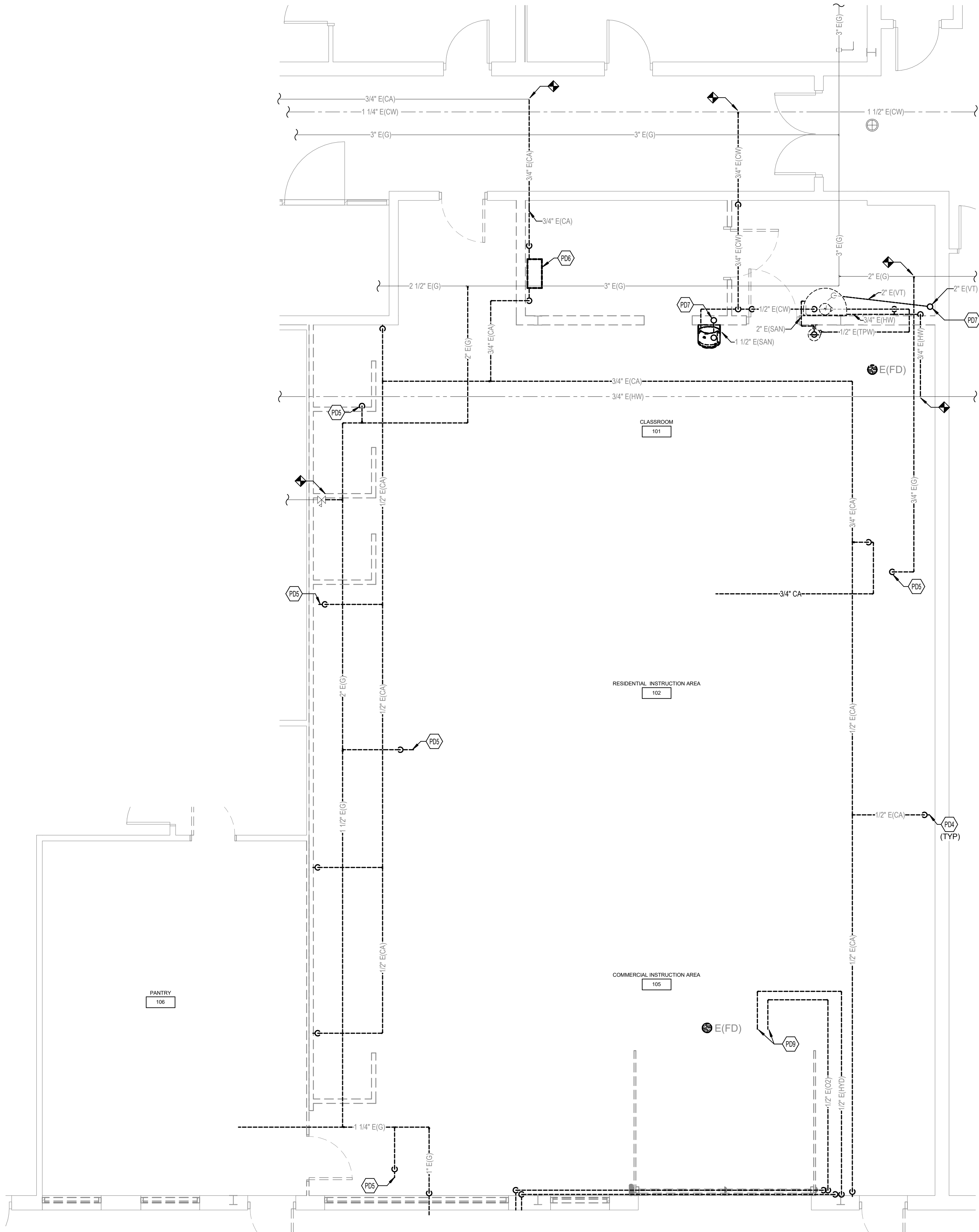
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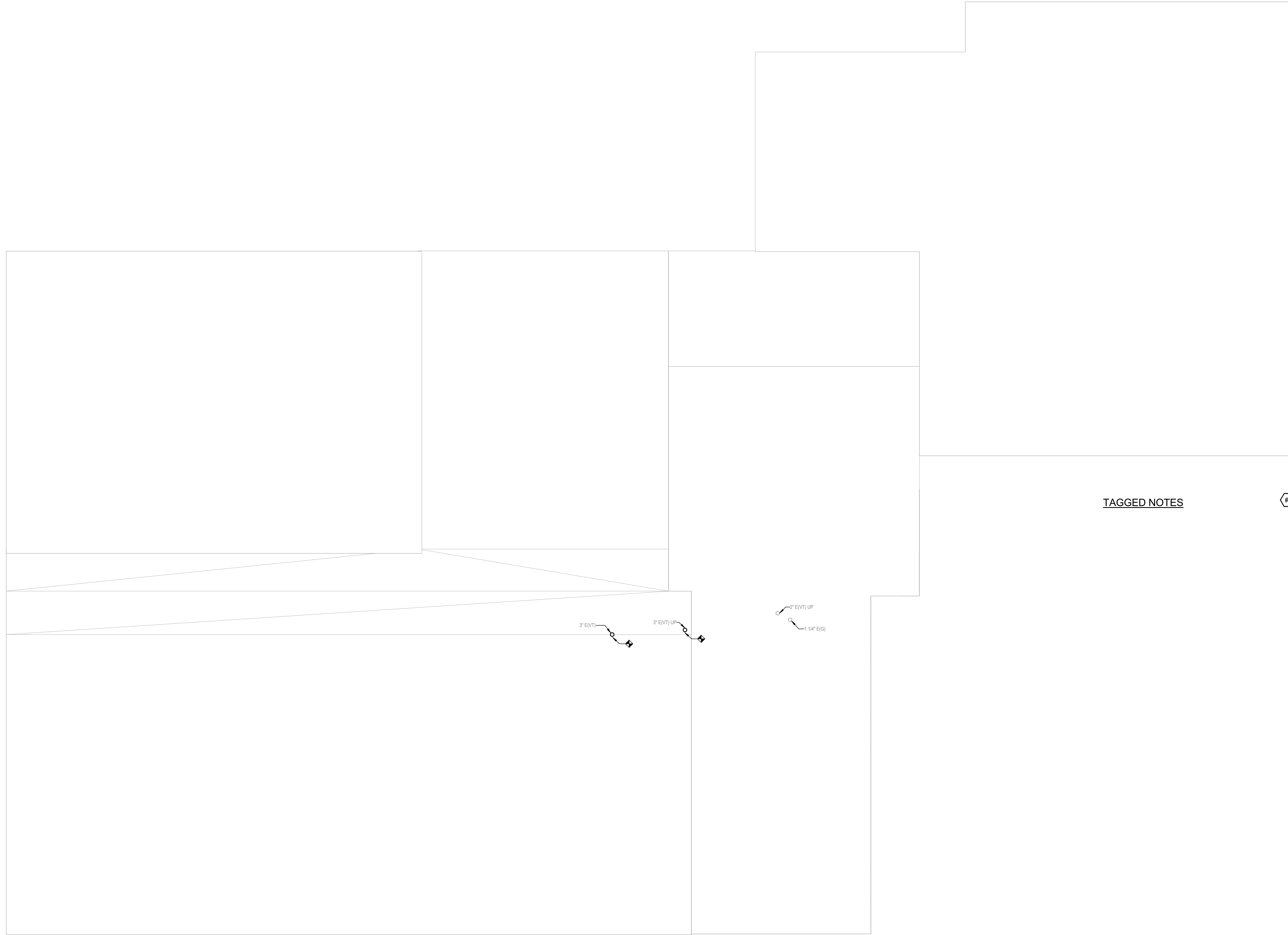
PLUMBING -
DEMOLITION
- ABOVE
SLAB -
ENLARGED
FLOOR PLAN

SHEET NO.

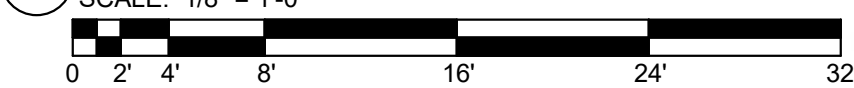
PD201



1
1 PD201
PLUMBING - DEMOLITION - ABOVE SLAB -
ENLARGED VIEW
SCALE: 1/4" = 1'-0"
0 1' 2' 4' 8' 12' 16'



1 PLUMBING - DEMOLITION - ROOF PLAN
SCALE: 1/8" = 1'-0"



RIS CULINARY ARTS
RENOVATION
RUSSELVILLE, KY

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PLUMBING -
DEMOLITION
- ROOF PLAN

SHEET NO.

RIS CULINARY ARTS
RENOVATION
RUSSELVILLE, KY

TAGGED NOTES



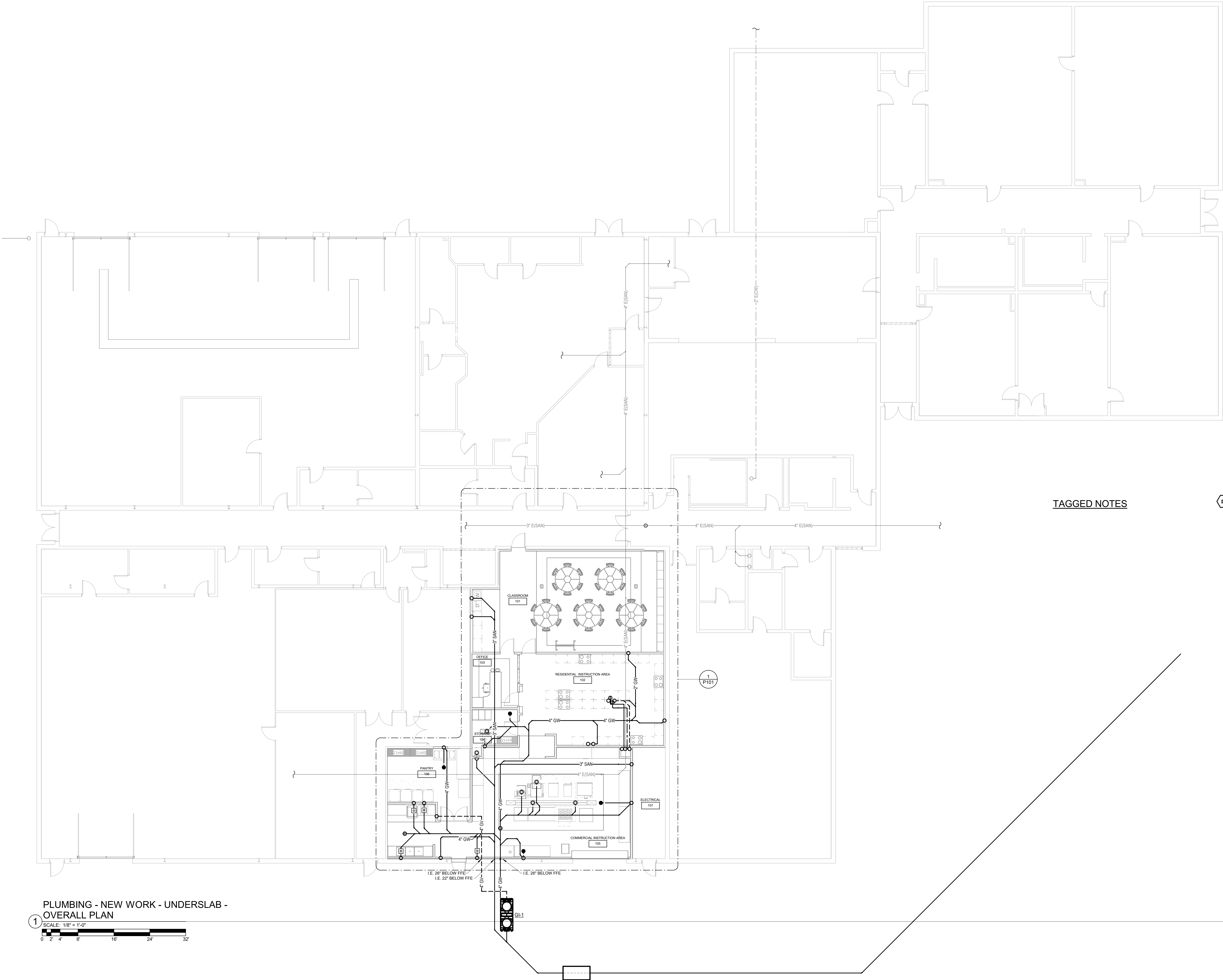
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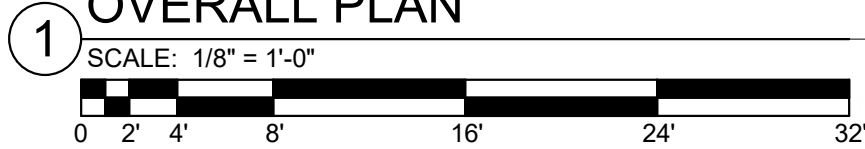
PLUMBING -
NEW WORK -
UNDERSLAB
- OVERALL
PLAN

SHEET NO.

P100



PLUMBING - NEW WORK - UNDERSLAB -
OVERALL PLAN



RIS CULINARY ARTS
RENOVATION
RUSSELVILLE, KY

DATE	1/1/2025
PROJ. NO.	24-23
DRAWN BY:	Author

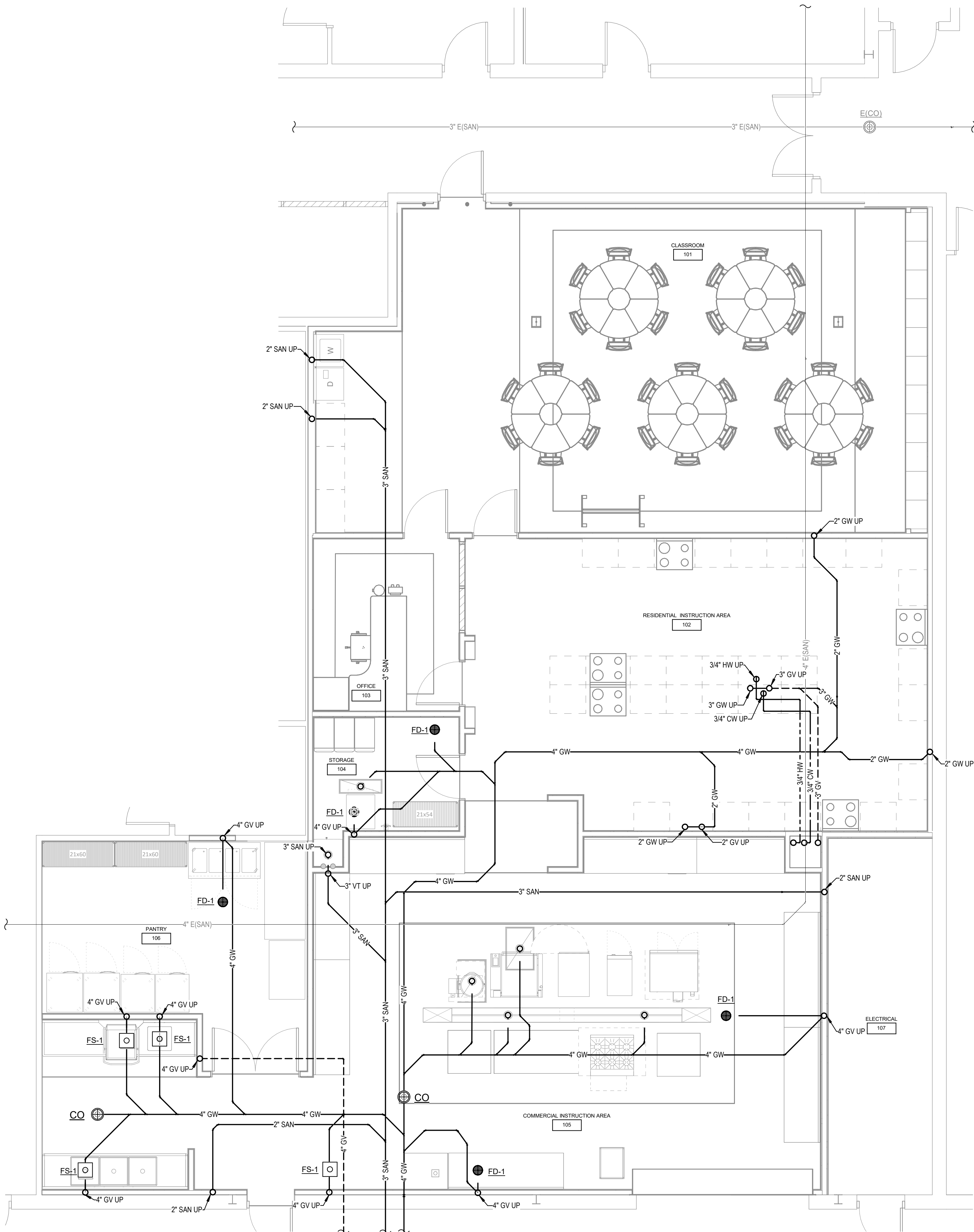
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PLUMBING -
NEW WORK -
UNDERSLAB
- ENLARGED
FLOOR PLAN

SHEET NO.

P101



1
1 P100

PLUMBING - NEW WORK - UNDERSLAB -
ENLARGED VIEW

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

0 1' 2' 4' 8' 12' 16'

RIS CULINARY ARTS
RENOVATION
RUSSELVILLE, KY

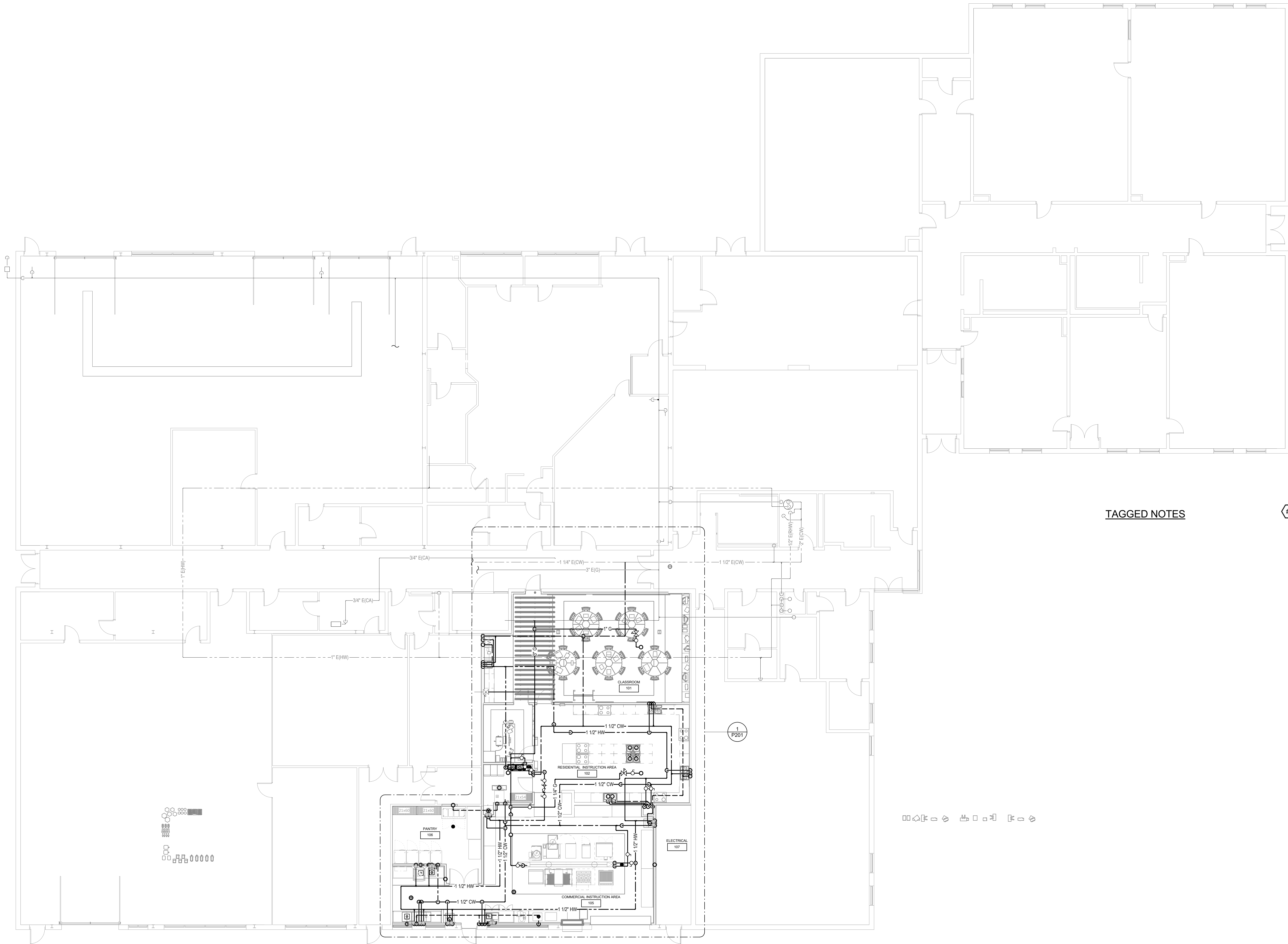
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PLUMBING -
NEW WORK -
ABOVE SLAB
- OVERALL
PLAN

SHEET NO.

P200



1 PLUMBING - NEW WORK - ABOVE SLAB -
OVERALL PLAN

SCALE: 1/8" = 1'-0"
0 2' 4' 8' 16' 24' 32'

RIS CULINARY ARTS
RENOVATION
RUSSELVILLE, KY

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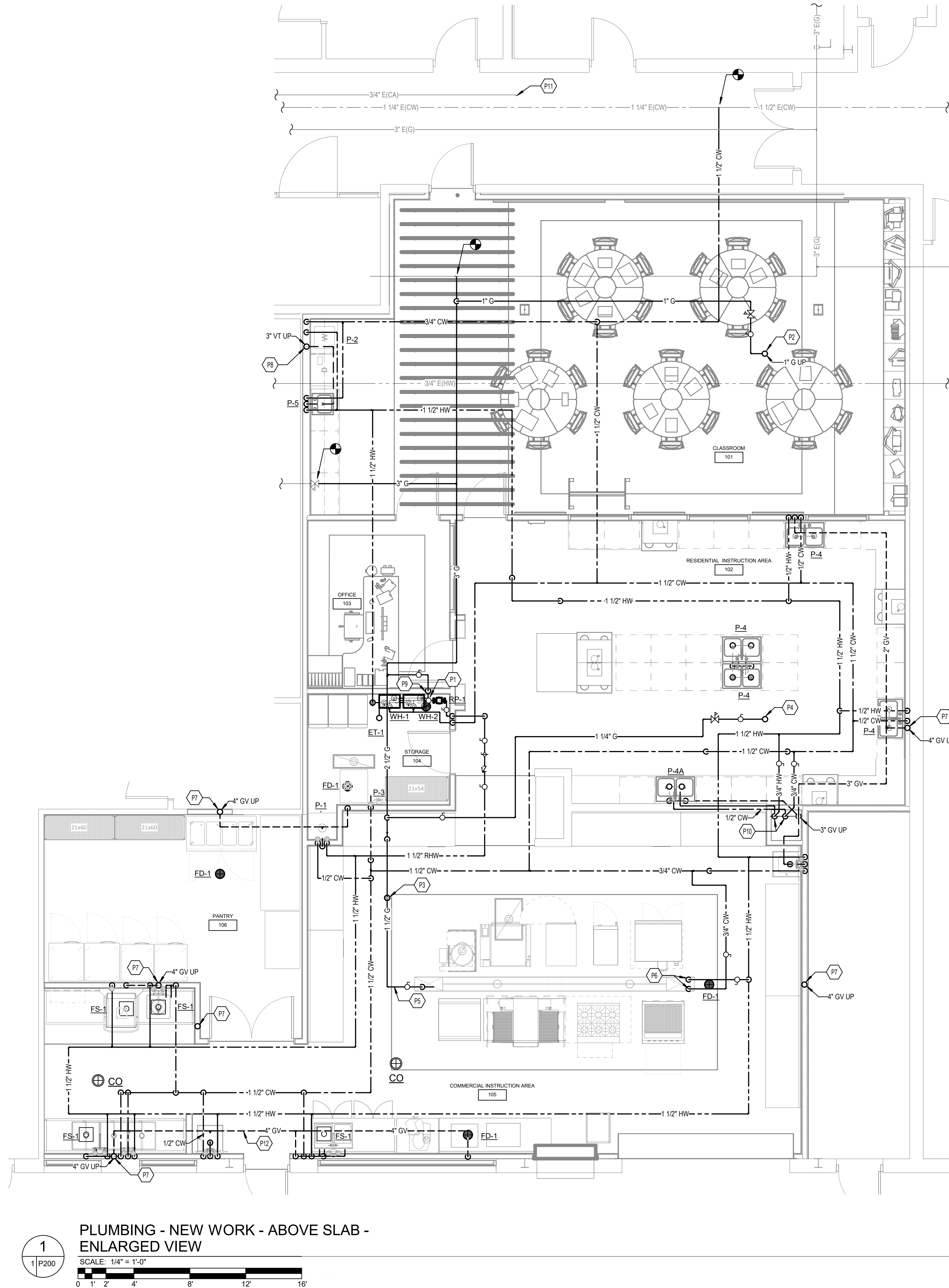
PLUMBING -
NEW WORK -
ABOVE SLAB
- ENLARGED
FLOOR PLAN

SHEET NO.

P201

TAGGED NOTES

- P1 REFER TO SHEET P400, PLUMBING - DETAILS, SCHEMATICS, AND SCHEDULES, FOR MORE DETAILS OF INSTALLATION OF WATER HEATERS
- P2 1" NATURAL GAS UP TO RTU-1 ON ROOF. PROVIDE SHUTOFF VALVE AND REGULATOR. NATURAL GAS REGULATOR SHALL BE SIZED FOR 120 MBH FROM 5-14 INCH WC. FOR REFER TO P300 PLUMBING - NEW WORK - ROOF PLAN FOR CONTINUATION.
- P3 1 1/4" NATURAL GAS UP TO MAU-1 ON ROOF. PROVIDE SHUTOFF VALVE AND REGULATOR. NATURAL GAS REGULATOR SHALL BE SIZED FOR 347.3 MBH FROM X-Y INCH WC. REFER TO P300 PLUMBING - NEW WORK - ROOF PLAN FOR CONTINUATION.
- P4 1" NATURAL GAS UP TO RTU-2 ON ROOF. PROVIDE SHUTOFF VALVE AND REGULATOR. NATURAL GAS REGULATOR SHALL BE SIZED FOR 200 MBH FROM 5-14 INCH WC. REFER TO P300 PLUMBING - NEW WORK - ROOF PLAN FOR CONTINUATION.
- P5 1 1/2" NATURAL GAS TO UDS. ROUTE UDS TO FEED 6 BURNER RANGE AND CHARBROILER. BOTH UNITS COME WITH 5" WC REGULATORS. PROVIDE SHUTOFF VALVES.
- P6 3/4" HOT AND COLD WATER TO UDS. ROUTE UDS TO FEED COMBI OVEN COLD WATER AND TILTING SKILLET HOT AND COLD WATER. PROVIDE SHUTOFF VALVES.
- P7 4" GREASE VENT THROUGH ROOF. REFER TO P300 PLUMBING - NEW WORK - ROOF PLAN FOR CONTINUATION.
- P8 2" VENT THROUGH ROOF. REFER TO P300 PLUMBING - NEW WORK - ROOF PLAN FOR CONTINUATION.
- P9 1 1/4" NATURAL GAS TO WH-1 AND WH-2 IN STORAGE CLOSET. PROVIDE SHUTOFF VALVE AND REGULATOR FOR EACH WATER HEATER. NATURAL GAS REGULATORS SHALL BE SIZED FOR 199 MBH FROM 8-10.5 INCH WC.
- P10 PIPING NOTE
- P11 PIPING NOTE
- P12 PIPING NOTE



PLUMBING - NEW WORK - ABOVE SLAB -
ENLARGED VIEW

SCALE: 1/4" = 1'-0"
0 1 2 4 8 12 16'

RIS CULINARY ARTS
RENOVATION
RUSSELVILLE, KY

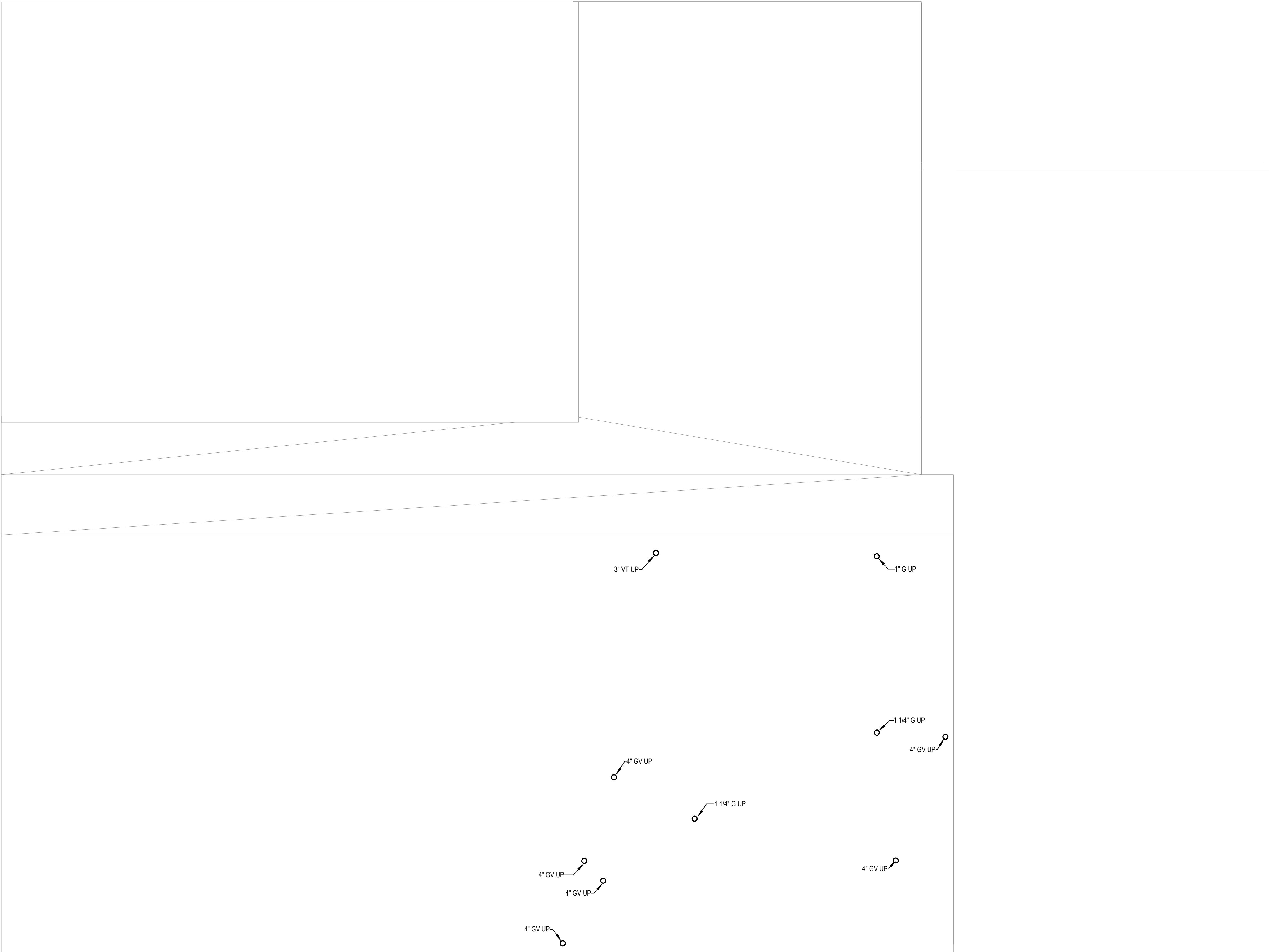
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PLUMBING -
NEW WORK -
ROOF PLAN

SHEET NO.

P300

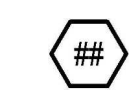


1 PLUMBING - NEW WORK - ROOF PLAN

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16' 24' 32'

TAGGED NOTES



DOMESTIC HOT WATER RECIRCULATION PUMP SCHEDULE										
MARK	MANUFACTURER	MODEL	SERVICE	GPM	PRESS DROP (FT HEAD)	MOTOR HP	VOLTAGE	PHASE	REMARKS	
RP-1	BELL & GOSSETT	ECOCIRC B 23-5 ACT	120 DEG LOOP	3	5.00	0.16	115 V	1	ALL	

- REMARKS:
- BRONZE CONSTRUCTION AND LEAD FREE FOR DOMESTIC WATER USE.
 - ACCEPTABLE MANUFACTURERS ARE ARMSTRONG, GRUNDFOS, TACO, AND BELL & GOSSETT.
 - ALL PLUMBING EQUIPMENT SHALL COMPLY WITH THE LATEST PROVISIONS OF KBC.
 - PUMP SHALL BE IN-LINE CENTRIGUGAL PUMP WITH MECHANICAL SEALS, DRIP PROOF MOTOR, AND ALL REQUIRED OVERLOADS, STARTERS, AND DISCONNECTS.

EXPANSION TANK SCHEDULE										
MARK	MANUFACTURER	MODEL #	TYPE	SERVICE	PHYSICAL SIZE (IN)		CAPACITY		REMARKS	
					DIA.	HEIGHT	TANK VOLUME (GALS)	ACCEPTANCE VOLUME (GALS)		
ET-1	AMTROL	ST-12VC	DIAPHRAGM	120 DEG LOOP	12	14	6.4	3.20	ALL	

- REMARKS:
- PROVIDE 3/4" SYSTEM PIPE CONNECTIONS.
 - ACCEPTABLE MANUFACTURERS ARE AMTROL, WATTS, AND BELL & GOSSETT.

GREASE INTERCEPTOR SCHEDULE													
MARK	MANUFACTURER	MODEL	TYPE	SERVICE	DIMENSION (IN)			VOLUME (GAL)	INLET PIPE DIA (IN)	OUTLET PIPE DIA (IN)	MAX GREASE CAPACITY (GAL)	MAX SOLIDS CAPACITY (GAL)	REMARKS
					LENGTH	WIDTH	HEIGHT						
GI-1													

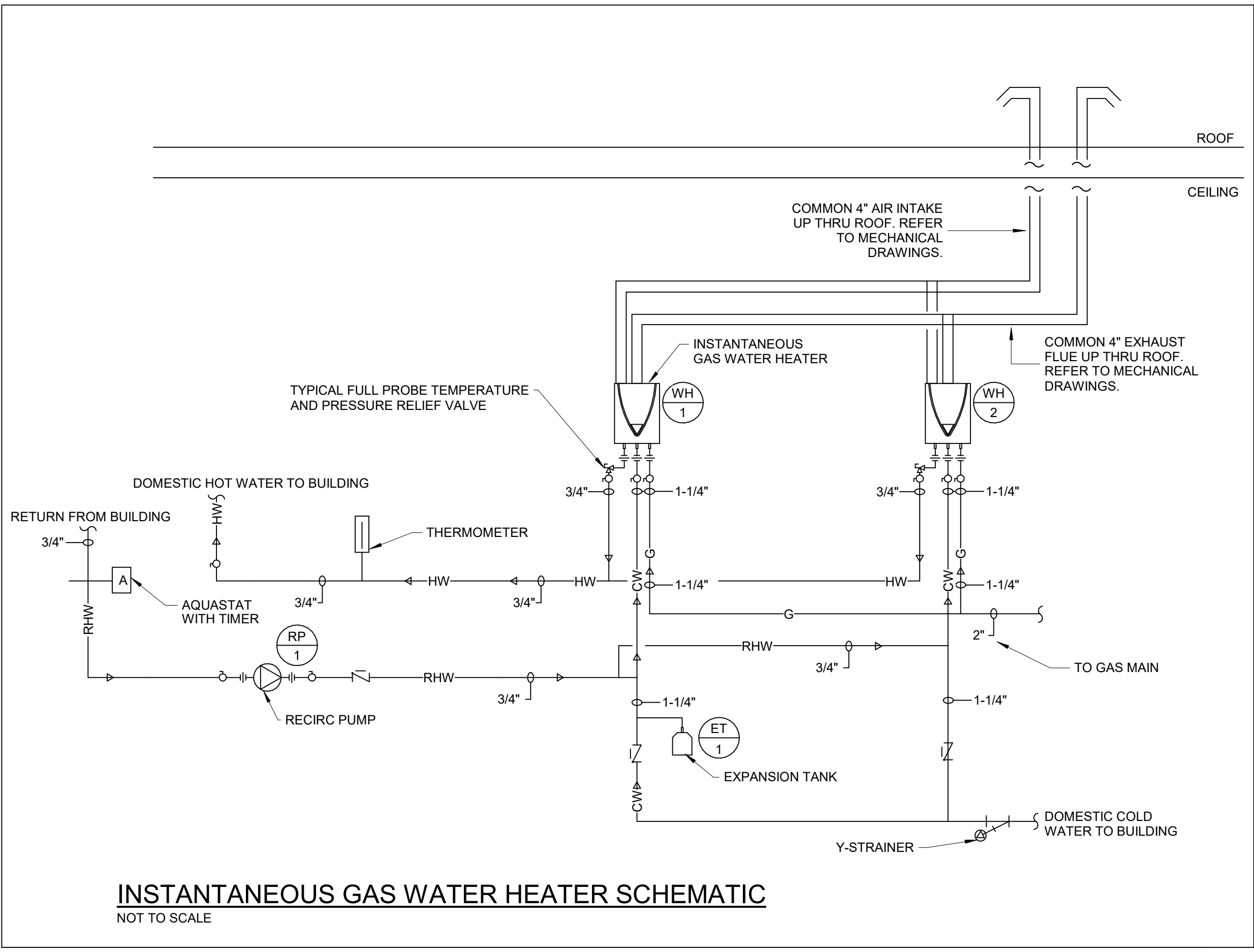
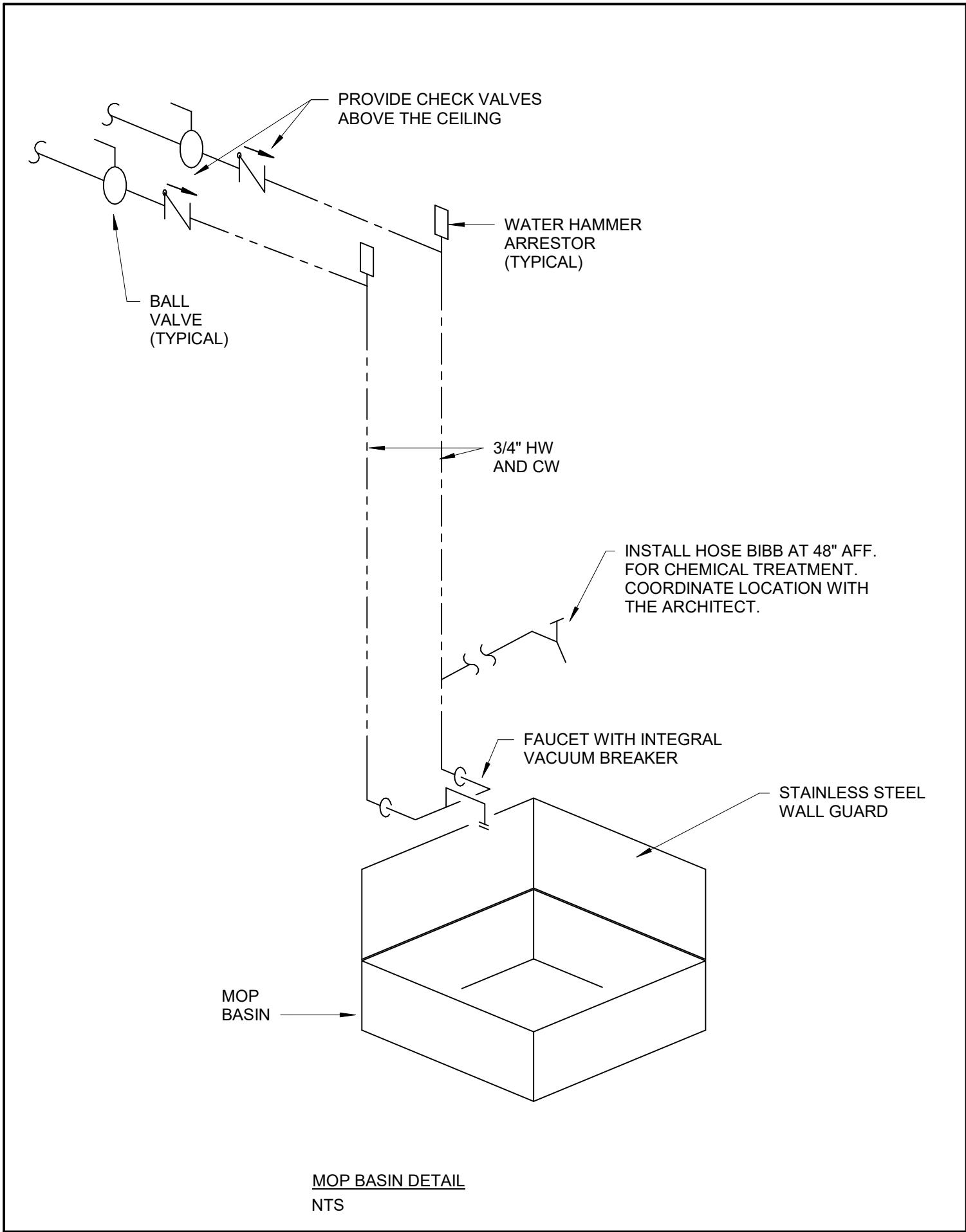
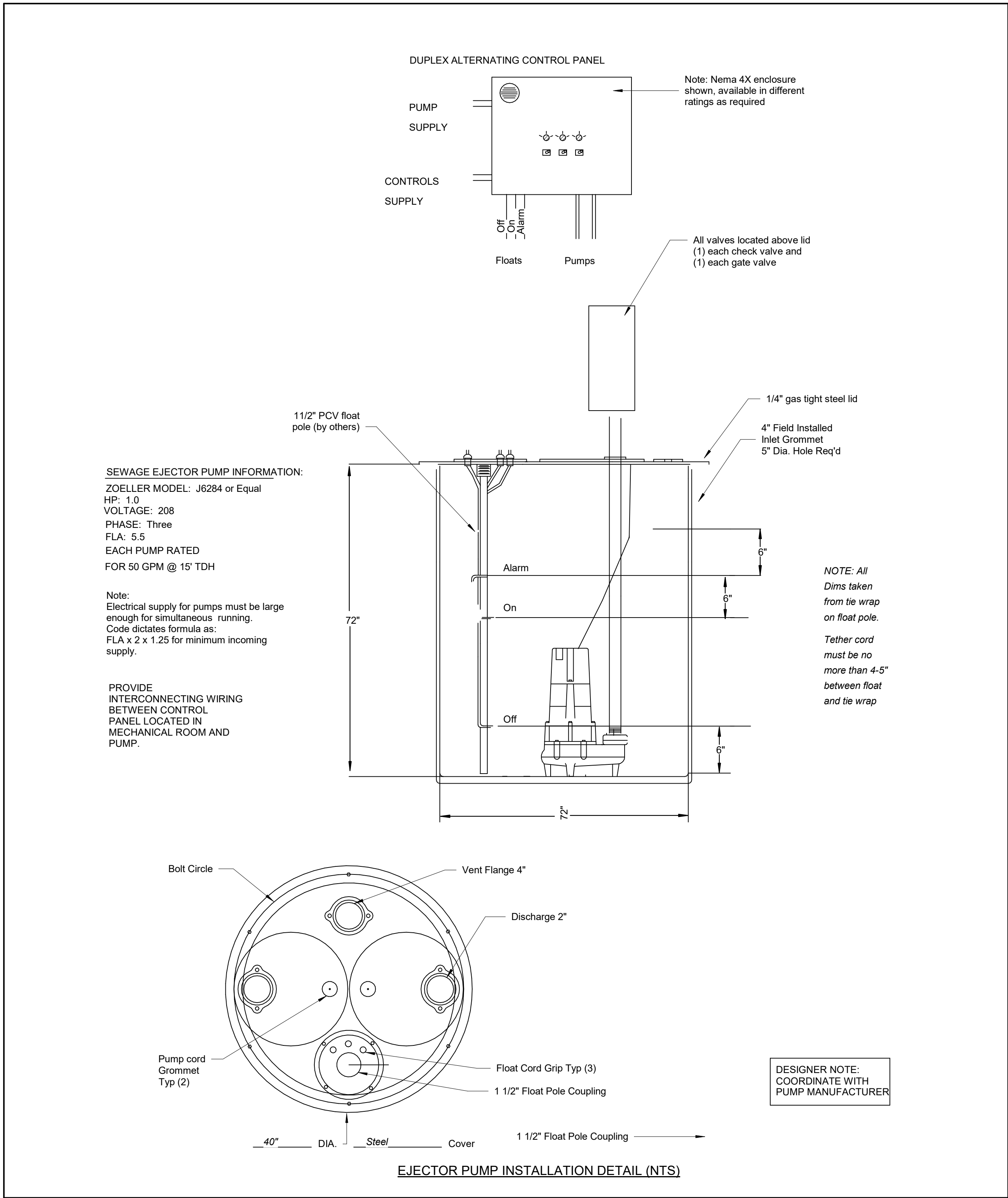
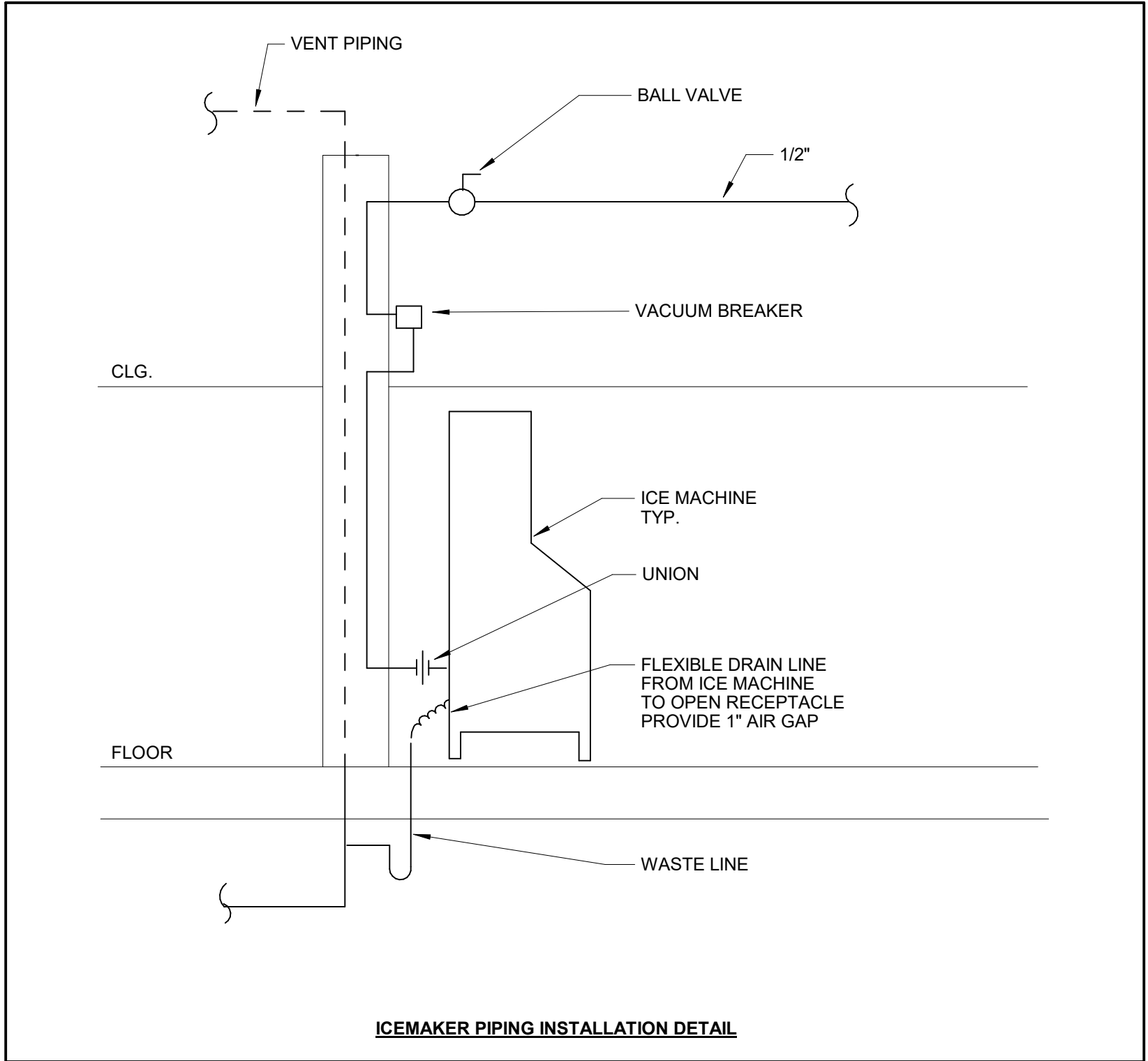
- REMARKS:
- PROVIDE

PLUMBING FIXTURE SCHEDULE										
TAG	DESCRIPTION						CW	HW	VENT	EXTERNAL CHECK VALVE
FD-1	FLOOR DRAIN - 6" DIA. : ZURN, ZN-415 OR EQUAL FLOOR DRAIN WITH 6" DIAMETER TOP, TYPE "B" NICKEL BRONZE STRAINER, 4" DRAIN OUTLET AND TRAP PRIMER CONNECTION.						-	-	2"	No
FS-1	FLOOR SINK WITH 3/4 GRATE : ZURN, ZN-1901 OR EQUAL, 12"X12"X8" DEEP CAST IRON BODY SANI FLOOR RECEPTOR, WITH SQUARE SLOTTED LIGHT-DUTY 3/4 GRATE WITH WHITE ACID RESISTING PORCELAIN ENAMEL, INTERIOR AND TOP COMPLETE WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER, PROVIDE WITH 4" OUTLET AND NICKEL BRONZE FRAME. THE 1" VOID BETWEEN THE TOP OF THE FLOOR SINK AND THE FINISHED FLOOR SHALL BE FILLED WITH A NON-SHRINKING GROUT AND GROUT SHALL BE PAINTED TO MATCH THE FLOOR. PROVIDE WITH ZURN 21022 TRAP PRIMER CONNECTION ADAPTOR.						-	-	2"	No
P-1	MOP BASIN : 24"X24"X10" HIGH MOLDED STONE MOP SERVICE BASIN, IN WHITE DRIFT COLOR, 3" DRAIN, SERVICE FAUCET, HOSE AND HOSE BRACKET, VINYL BUMPERGUARD AND STAINLESS STEEL WALL GUARDS. THE DRAIN SHALL BE LOCATED 12" TO THE CENTER, PROVIDE A CHECK VALVE IN THE HOT AND COLD WATER SUPPLIES.						3/4"	3/4"	2"	No
P-2	WASHER BOX : RECESSED 20 GAUGE METAL WASHER BOX WITH 1/2" HW AND CW BOTTOM HOSE CONNECTIONS AND 2" DRAIN. PROVIDE WITH WATER HAMMER ARRESTORS IN WATER SUPPLY LINES.						3/4"	3/4"	2"	No
P-3	WATER SUPPLY WALL BOX : 10"X 8-1/2" RECESSED WATER VALVE BOX, 18 GAUGE STEEL BOX WITH A SINGLE 1/2" WATER SUPPLY INLET, ANGLE STOP AND 1/4" COMPRESSION OUTLET.						1/2"	-	-	No
P-4	DOUBLE COMPARTMENT SINK W/ GOOSENECK FAUCET : ELKAY - LUSTERTONE: DOUBLE COMPARTMENT STAINLESS STEEL SINK, 33" X 21 1/2" O.D., 18 GAUGE, 7 7/8" DEEP, REAR FAUCET LEDGE WITH 4" CENTERS, PROVIDE WITH ZURN AQUASPEC ZB31C4-XL-HS GOOSENECK FAUCET WITH 4" BLADES AND SWING SPOUT, PROVIDE WITH HOSE AND SPRAY, PROVIDE WITH CHROME SUPPLIES, STOPS, TAILPIECE, KENTUCKY CODE P-TRAP, CRUMB CUP STRAINER DRAINS, CONTINUOUS WASTE AND ESCUTCHEONS.						1/2"	1/2"	2"	No
P-4A	DOUBLE COMPARTMENT SINK W/ GOOSENECK FAUCET: ADA COMPLIANT: ELKAY - LUSTERTONE: DOUBLE COMPARTMENT STAINLESS STEEL SINK, 33" X 21 1/4" O.D., 18 GAUGE, 5 1/2" DEEP, REAR FAUCET LEDGE WITH 4" CENTERS, PROVIDE WITH PROVIDE WITH ZURN AQUASPEC ZB31C4-XL-HS GOOSENECK FAUCET WITH 4" BLADES AND SWING SPOUT, PROVIDE WITH HOSE AND SPRAY, PROVIDE WITH CHROME SUPPLIES, STOPS, TAILPIECE, KENTUCKY CODE P-TRAP, CRUMB CUP STRAINER DRAINS, CONTINUOUS WASTE AND ESCUTCHEONS.						1/2"	1/2"	2"	No
P-5	SINGLE COMPARTMENT SINK : ELKAY - LUSTERTONE: SINGLE COMPARTMENT STAINLESS STEEL SINK, 19 1/2" X 22" O.D., 16"X16" I.D., 7 5/8" DEEP, 18 GAUGE, WITH 4" CENTERS, PROVIDE WITH ZURN AQUASPEC ZB31C4-XL-HS GOOSENECK FAUCET WITH 4" BLADES AND SWING SPOUT, PROVIDE WITH HOSE AND SPRAY, PROVIDE WITH CHROME SUPPLIES, STOPS, TAILPIECE, KENTUCKY CODE P-TRAP, CRUMB CUP STRAINER DRAINS, CONTINUOUS WASTE AND ESCUTCHEONS.						1/2"	1/2"	2"	No

GAS TANKLESS WATER HEATER SCHEDULE										
MARK	MANUFACTURER	MODEL #	SERVICE	RECOVERY @ 100°F RISE (GPM)	NATURAL GAS INPUT (MBH)	ALLOWABLE GAS PRESSURE RANGE (" WC)	VOLTAGE	PHASE	REMARKS	
WH-1	LOCHINVAR	LTI-540H-N	120 DEG LOOP	3.5	199.0	4-10.5	120 V	1	ALL	
WH-2	LOCHINVAR	LTI-540H-N	120 DEG LOOP	3.5	199.0	4-10.5	120 V	1	ALL	

- REMARKS:
- PROVIDE #10020824 REMOTE CONTROLLER FOR 120F OPERATION.
 - PROVIDE #100112158 CONDENSATE NEUTRALIZER.
 - PROVIDE #100291509 PRODUCT PRESERVER ANTI-SCALING.
 - PROVIDE #100012156 ISOLATION VALVES.
 - PROVIDE COMMON VENT KIT FOR FLUE AND INTAKE SIDES. PROVIDE NON-RETURN VALVES AS REQUIRED BY MANUFACTURER.

SEWAGE EJECTOR PUMP SCHEDULE																		
MARK	MANUFACTURER	MODEL	TYPE	SERVICE	DIMENSION (IN)			WEIGHT (LBS)	INLET PIPE DIA (IN)	OUTLET PIPE DIA (IN)	GPM	PRESS DROP (FT HEAD)	MOTOR HP	ELECTRICAL				REMARKS
					LENGTH	WIDTH	HEIGHT							FLA	MCA	MOCP	VOLTAGE	
EP-1	ZOELLER																	



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PLUMBING -
DETAILS,
SCHEMATICS,
AND
SCHEDULES

SHEET NO.

P400

MECHANICAL
LEGEND

SHEET NO.

MO.0

MECHANICAL GENERAL NOTES

- A

COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
- B

THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, DAY BY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- C

WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
- D

ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
- E

COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
- F

PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNERS' STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- G

OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
- H

CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
- I

IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.
- J

WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
- K

ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- L

ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
- M

ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
- N

INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS. USE CARE TO AVOID FREEZING OF EXTERIOR VENTS.
- O

LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
- P

ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- Q

COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.
- R

INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.
- S

SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.
- T

SEAL ALL NEW DUCTWORK JOINTS WITH UNITED MCGILL IRONGRIP 801 OR EQUAL WATER BASED SEALANT.
- U

ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED.
- V

THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.
- W

WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL, INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
- X

DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.
- Y

ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- Z

DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHEN APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- AA

VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILING. IN GENERAL, ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
- AB

ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- AC

PIPING SHALL NOT BE LOCATED UNDER A FOOTER OR IN THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.
- AD

THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND 2009 IECC.
- AE

THE DOCUMENTS COMPLY WITH 2006 IMC, 2007 KBC, AND ASHRAE 90.1-2007.
- AF

WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

ABBREVIATIONS	
AC	ALTERNATING CURRENT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURISDICTION
AMP	AMPERE (AMP, AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APD	AIR PRESSURE DROP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS
ATU	AIR TERMINAL UNIT
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
C.I.	CAST IRON
CLG	CEILING
CLR	CLEAR
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
COND	CONDENS (-ER, -ING, -ATION, -ATE)
CONT	CONTINU (-ED, -OUS)
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CV	VALVE FLOW COEFFICIENT
dB	DECIBEL
DB	DRY BULB
DBT	DRY BULB TEMPERATURE
DC	DIRECT CURRENT
DD	DUCT SMOKE DETECTOR
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE (-S)
DIA	DIAMETER (-S)
DN	DOWN
DWG	DRAWING
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVA (-TION, -TOR)
ENGR	ENGINEER
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EVAP	EVAPORAT (-E, -ING, -ED, -OR, -ION)
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EXT	EXTERIOR
FA	FREE AREA

ABBREVIATIONS (CONTINUED)	
FD	FIRE DAMPER
FL	FLOOR
FLA	FULL LOAD AMPS
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET OR FOOT
FUT	FUTURE
FV	FACE VELOCITY
GA	GAGE/GAUGE
GAL	GALLON (-S)
GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
H	HUMIDITY
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	H (-ORSEPOWER, -EAT PUMP)
HR	HOUR (-S)
HVAC	HEATING, VENTILATING, & AIR-CONDITIONING
Hz	HERTZ
ID	1 (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)
IN	INCH (-ES)
INSUL	INSULAT (-ED, -ION)
INT	INTER (-IOR, -ERVAL)
IPS	IRON PIPE SIZE
kW	KILOWATT
kWh	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET/FOOT
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	BTU PER HOUR [THOUSANDS]
MCA	MINIMUM CIRCUIT AMPS
MFG	MANUFACTURER
MIN	MIN (-IMUM, -UTE)
MISC	MISCELLANEOUS
MDCP	MAXIMUM OVERCURRENT PROTECTION [AMPS]
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NOISE CRITERIA OR NORMALLY CLOSED
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
NIC	NOT IN CONTRACT

ABBREVIATIONS (CONTINUED)	
NO	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DI (-AMETER, -MENSION)
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OR	OPEN RECEPTACLE
OZ	OUNCE (-S)
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE [ELECTRICAL]
PLBG	PLUMBING
PPM	PARTS PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PPSI GAUGE
RH	RELATIVE HUMIDITY [%]
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SQ	SQUARE
SQ FT	SQUARE FEET OR FOOT
SQ IN	SQUARE INCH OR INCHES
TAB	TESTING AND BALANCING
TBD	TO BE DETERMINED
TE	TOP ELEVATION
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT (-AGE, -S)
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
W	WATT (-AGE, -S)
WB	WET BULB
WBT	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP
WT	WEIGHT
W/	WITH
W/O	WITHOUT
%	PERCENT
ΔP	DIFFERENTIAL PRESSURE
ΔT	TEMPERATURE DIFFERENCE
℄	CENTERLINE

GENERAL SYMBOLS	
	TAGGED NOTE DESIGNATOR
	REVISION TRIANGLE
	ROOM TAG
	EQUIPMENT TAG
	POINT OF CONNECTION / CONNECT TO EXISTING
	POINT OF DEMOLITION

HVAC LEGEND	
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	EXHAUST AIR DIFFUSER
	TRANSFER AIR DIFFUSER W/ SOUND ATTENUATING BOOT
	SIDEWALL DIFFUSER/GRILLE
	SIDEWALL DIFFUSER/GRILLE
	AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER, LOUVER)
	RECTANGULAR DUCT
	ROUND/SPIRAL DUCT
	FLAT OVAL DUCT
	SUPPLY AIR DUCT
	RETURN AIR DUCT
	EXHAUST AIR DUCT
	OUTSIDE AIR DUCT
	TRANSFER AIR DUCT
	COMBUSTION AIR EXHAUST DUCT
	COMBUSTION AIR INTAKE DUCT
	SA AIR DUCT TURNING UP
	SA AIR DUCT TURNING DOWN
	RA AIR DUCT TURNING UP
	RA AIR DUCT TURNING DOWN
	EA AIR DUCT TURNING UP
	EA AIR DUCT TURNING DOWN
	EXISTING DUCT - (XXX) DENOTES SYSTEM
	DUCT TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
	DUCT TO BE ABANDONED IN PLACE - (XXX) DENOTES SYSTEM
	MITERED ELBOW WITH TURNING VANES
	FLEXIBLE DUCT
	THERMOSTAT
	TEMPERATURE SENSOR
	HUMIDITY SENSOR
	CARBON DIOXIDE SENSOR
	TEMPERATURE & CARBON DIOXIDE SENSOR
	MANUAL BALANCING/VOLUME DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE & SMOKE DAMPER

MECHANICAL PIPING LEGEND	
	PIPE ELBOW TURNING UP
	PIPE ELBOW TURNING DOWN
	PIPE TEE: CONNECTION ON TOP
	PIPE TEE: CONNECTION ON BOTTOM
	PIPE CAP
	BOILER FEEDWATER
	COMBUSTION AIR INTAKE/EXHAUST
	CHILLED BEAM SUPPLY/RETURN
	CONDENSATE DRAIN
	CHILLED WATER SUPPLY/RETURN
	CLEAN STEAM PIPING
	CONDENSER WATER SUPPLY/RETURN
	DUAL TEMP. WATER SUPPLY/RETURN
	GEO THERMAL WATER SUPPLY/RETURN
	HIGH PRESSURE STEAM CONDENSATE
	HIGH PRESSURE STEAM: (#) DENOTES PRESSURE
	HEAT PUMP WATER SUPPLY/RETURN
	HEAT RECOVERY SUPPLY/RETURN PIPING
	HEATING WATER SUPPLY/RETURN
	LOW PRESSURE STEAM CONDENSATE
	LOW PRESSURE STEAM: (#) DENOTES PRESSURE
	MEDIUM PRESSURE STEAM RETURN
	MEDIUM PRESSURE STEAM: (#) DENOTES PRESSURE
	STEAM CONDENSATE PUMPED DISCHARGE
	STEAM VENT PIPING
	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
	EXISTING PIPING - (XXX) DENOTES SYSTEM
	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	AUTOMATIC AIR VENT (AAV)
	MANUAL AIR VENT (MAV)
	MANUAL BALANCING VALVE (BV)
	BALL VALVE
	BUTTERFLY VALVE
	TRIPLE DUTY VALVE (TDV)
	STRAINER
	MANUAL ISOLATION VALVE
	GLOBE VALVE
	OS&Y (GATE) VALVE
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
	AUTO-FLOW CONTROL VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY
	FLEXIBLE PIPE CONNECTION
	FLOW METER (VENTURI)
	PIPING UNION
	FLOW SWITCH
	PRESSURE SWITCH
	TAMPOR SWITCH
	THERMOMETER
	PETE'S PLUG; TEMPERATURE/PRESSURE PORT

MECHANICAL DEMOLITION NOTES

- A

THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELD VERIFY EXACT REQUIREMENTS.
- B

DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.
- C

ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.
- D

ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
- E

HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (UON) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- F

COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.
- G

ALL OUTGAGES SHALL BE SCHEDULED THROUGH THE UK CPMD PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.
- H

ALL DUCTWORK, PIPING, CONDUIT, ETC. SHALL BE INSTALLED A MINIMUM OF 4" ABOVE THE TOP OF THE CEILING GRID PER UK STANDARDS.

MECHANICAL PHASING NOTES

- A

THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

MECHANICAL HAZARDOUS MATERIALS
NOTES

- A

THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.
- B

CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.
- C

IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM IMMEDIATELY.
- D

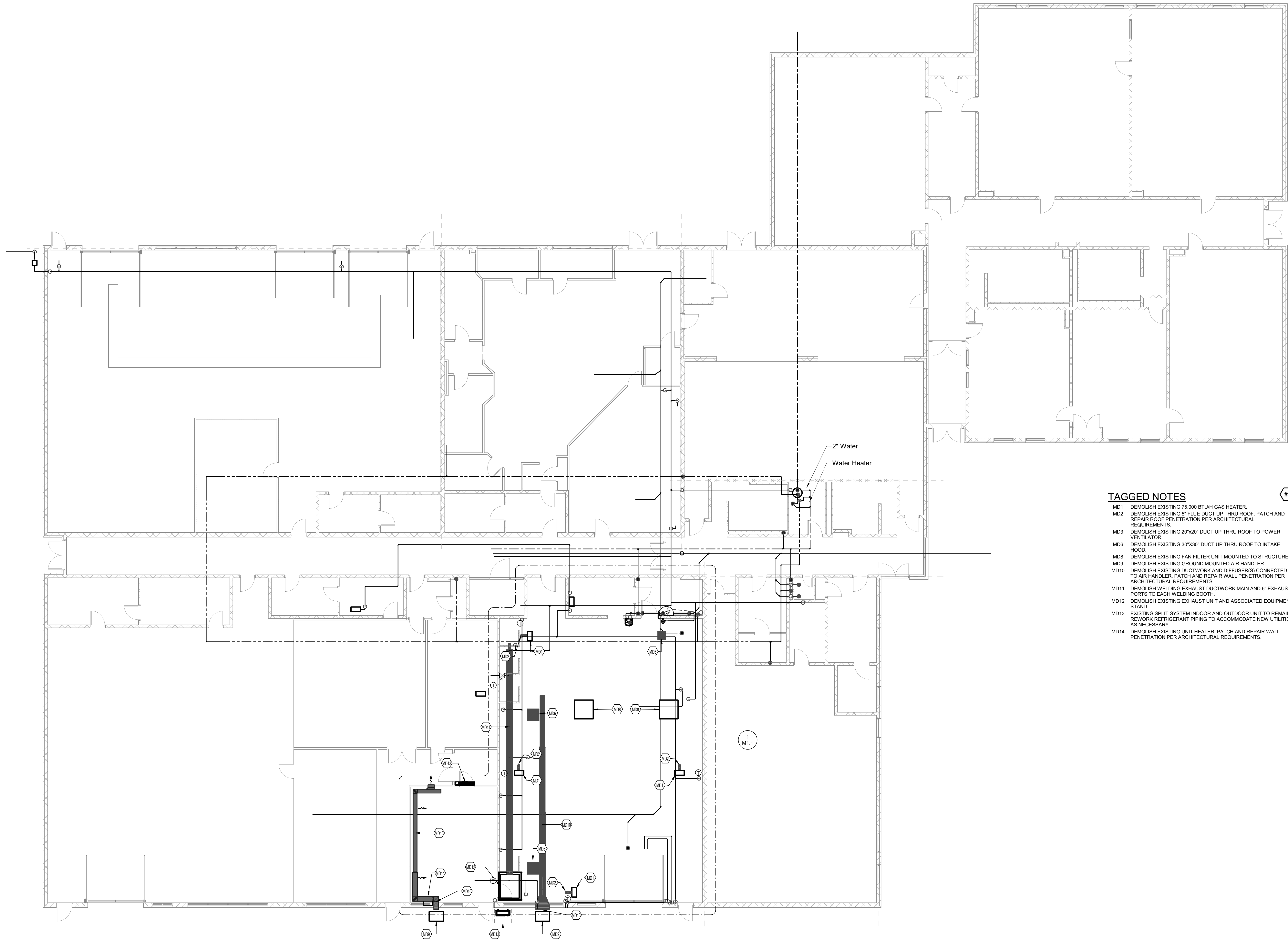
THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.
- E

THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

Sheet List - Mechanical	
SHEET #	SHEET NAME
M0.0	MECHANICAL LEGEND
M1.0	MECHANICAL - DEMOLITION - OVERALL PLAN
M1.1	MECHANICAL - DEMOLITION - ENLARGED FLOOR PLAN
M1.2	MECHANICAL - DEMOLITION - ROOF PLAN
M2.0	MECHANICAL - NEW WORK - OVERALL PLAN
M2.1	MECHANICAL - NEW WORK - ENLARGED FLOOR PLAN
M2.2	MECHANICAL - NEW WORK - ROOF PLAN
M3.0	MECHANICAL - DETAILS AND SCHEMATICS
M4.0	MECHANICAL - CONTROLS
M4.1	MECHANICAL - CONTROLS
M5.0	MECHANICAL - SCHEDULES
UM0.0	MECHANICAL - NEW WORK - SITE PLAN

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED ON THIS PROJECT

RIS CULINARY ARTS
RENOVATION
RUSSELVILLE, KY



TAGGED NOTES

- MD1 DEMOLISH EXISTING 75,000 BTU/H GAS HEATER.
MD2 DEMOLISH EXISTING 6\" FLUE DUCT UP THRU ROOF. PATCH AND REPAIR ROOF PENETRATION PER ARCHITECTURAL REQUIREMENTS.
MD3 DEMOLISH EXISTING 20\"x20\" DUCT UP THRU ROOF TO POWER VENTILATOR.
MD6 DEMOLISH EXISTING 30\"x30\" DUCT UP THRU ROOF TO INTAKE HOOD.
MD8 DEMOLISH EXISTING FAN FILTER UNIT MOUNTED TO STRUCTURE.
MD9 DEMOLISH EXISTING GROUND MOUNTED AIR HANDLER.
MD10 DEMOLISH EXISTING DUCTWORK AND DIFFUSER(S) CONNECTED TO AIR HANDLER. PATCH AND REPAIR WALL PENETRATION PER ARCHITECTURAL REQUIREMENTS.
MD11 DEMOLISH WELDING EXHAUST DUCTWORK MAIN AND 6\" EXHAUST PORTS TO EACH WELDING BOOTH.
MD12 DEMOLISH EXISTING EXHAUST UNIT AND ASSOCIATED EQUIPMENT STAND.
MD13 EXISTING SPLIT SYSTEM INDOOR AND OUTDOOR UNIT TO REMAIN. REWORK REFRIGERANT PIPING TO ACCOMMODATE NEW UTILITIES AS NECESSARY.
MD14 DEMOLISH EXISTING UNIT HEATER. PATCH AND REPAIR WALL PENETRATION PER ARCHITECTURAL REQUIREMENTS.

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MECHANICAL
-
DEMOLITION
- OVERALL
PLAN

SHEET NO.

M1.0

1 MECHANICAL - DEMOLITION - OVERALL PLAN

SCALE: 1/8\" = 1'-0\"
0 2' 4' 8' 16' 24' 32'

TAGGED NOTES

- MD1 DEMOLISH EXISTING 75,000 BTU/H GAS HEATER.
- MD2 DEMOLISH EXISTING 5" FLUE DUCT UP THRU ROOF. PATCH AND REPAIR ROOF PENETRATION PER ARCHITECTURAL REQUIREMENTS.
- MD3 DEMOLISH EXISTING 20"x20" DUCT UP THRU ROOF TO POWER VENTILATOR.
- MD6 DEMOLISH EXISTING 30"x30" DUCT UP THRU ROOF TO INTAKE HOOD.
- MD8 DEMOLISH EXISTING FAN FILTER UNIT MOUNTED TO STRUCTURE.
- MD10 DEMOLISH EXISTING DUCTWORK AND DIFFUSER(S) CONNECTED TO AIR HANDLER. PATCH AND REPAIR WALL PENETRATION PER ARCHITECTURAL REQUIREMENTS.
- MD11 DEMOLISH WELDING EXHAUST DUCTWORK MAIN AND 6" EXHAUST PORTS TO EACH WELDING BOOTH.
- MD12 DEMOLISH EXISTING EXHAUST UNIT AND ASSOCIATED EQUIPMENT STAND.
- MD13 EXISTING SPLIT SYSTEM INDOOR AND OUTDOOR UNIT TO REMAIN. REWORK REFRIGERANT PIPING TO ACCOMMODATE NEW UTILITIES AS NECESSARY.
- MD14 DEMOLISH EXISTING UNIT HEATER. PATCH AND REPAIR WALL PENETRATION PER ARCHITECTURAL REQUIREMENTS.

RIS CULINARY ARTS
RENOVATION
RUSSELVILLE, KY

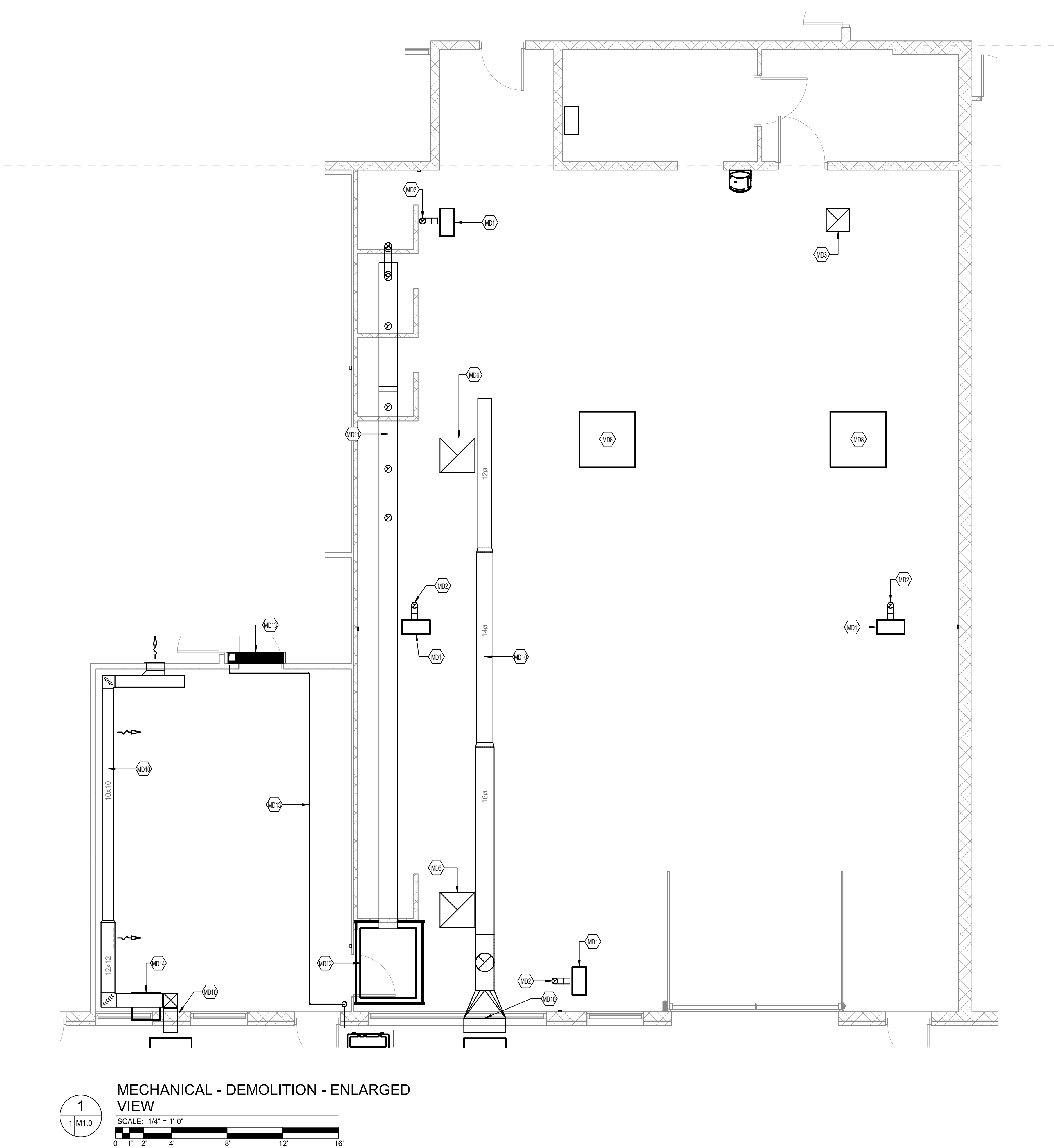
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MECHANICAL
-
DEMOLITION
- ENLARGED
FLOOR PLAN

SHEET NO.

M1.1



1
1 M1.0

MECHANICAL - DEMOLITION - ENLARGED
VIEW
SCALE: 1/4" = 1'-0"
0 1' 2' 4' 8' 12' 16'

RIS CULINARY ARTS
RENOVATION
RUSSELVILLE, KY

TAGGED NOTES

- MD2 DEMOLISH EXISTING 5" FLUE DUCT UP THRU ROOF. PATCH AND REPAIR ROOF PENETRATION PER ARCHITECTURAL REQUIREMENTS.
- MD4 DEMOLISH EXISTING POWER VENTILATOR.
- MD6 DEMOLISH EXISTING 30"X30" DUCT UP THRU ROOF TO INTAKE HOOD.
- MD7 DEMOLISH EXISTING INTAKE HOOD.



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MECHANICAL
-
DEMOLITION
- ROOF PLAN

SHEET NO.

M1.2

RIS CULINARY ARTS
RENOVATION
RUSSELVILLE, KY

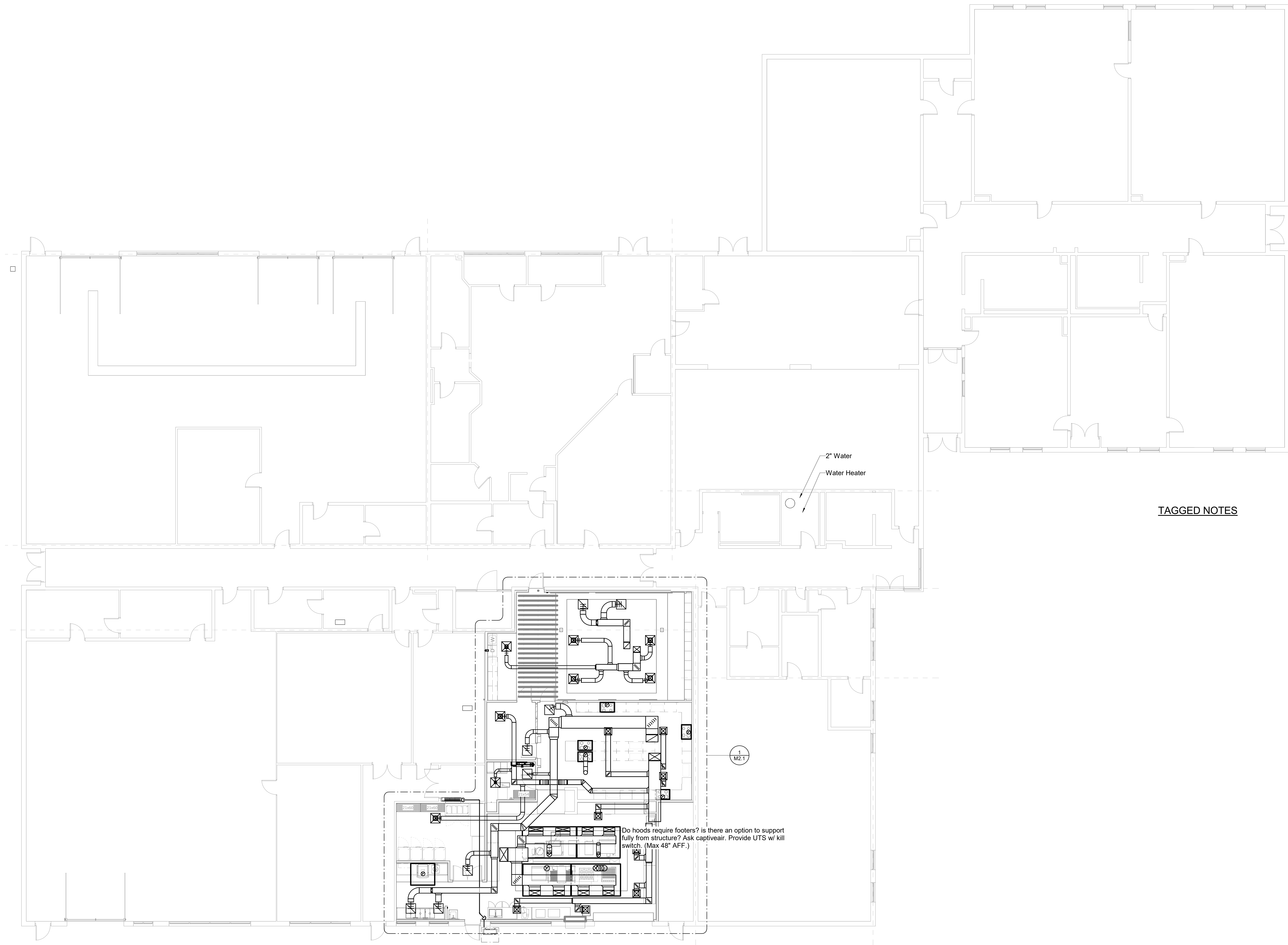
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MECHANICAL
- NEW WORK
- OVERALL
PLAN

SHEET NO.

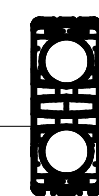
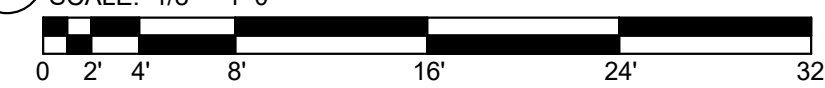
M2.0



TAGGED NOTES



1 MECHANICAL - NEW WORK - OVERALL PLAN
SCALE: 1/8" = 1'-0"

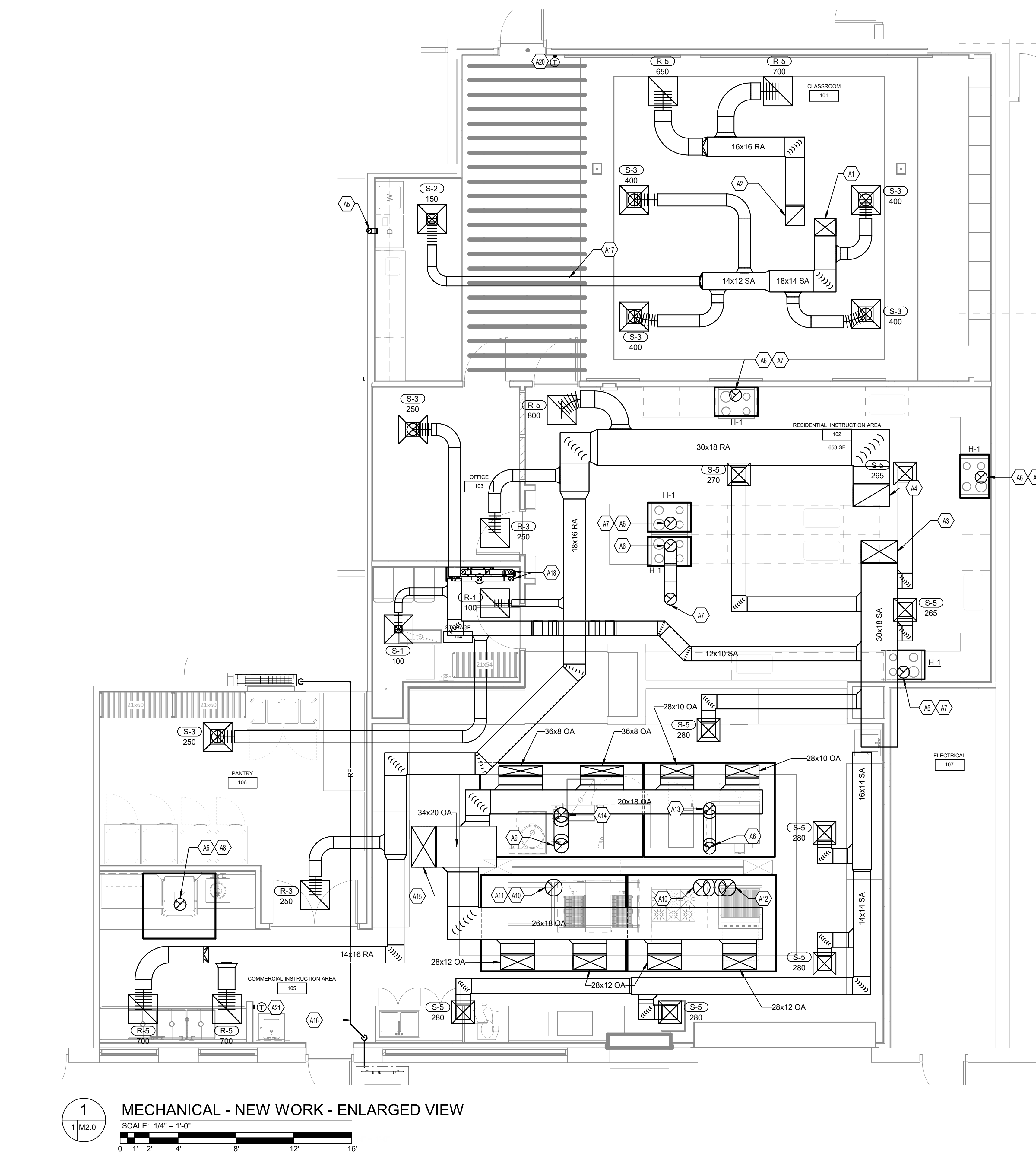


Do hoods require footers? is there an option to support fully from structure? Ask captiveair. Provide UTS w/ kill switch. (Max 48" AFF.)

1
M2.1

TAGGED NOTES

- A1 SUPPLY DUCT UP THRU ROOF TO CONNECT TO BOTTOM OF RTU-1.
A2 RETURN DUCT UP THRU ROOF TO CONNECT TO BOTTOM OF RTU-1.
A3 SUPPLY DUCT UP THRU ROOF TO CONNECT TO BOTTOM OF RTU-2.
A4 RETURN DUCT UP THRU ROOF TO CONNECT TO BOTTOM OF RTU-2.
A5 4" DRYER EXHAUST DUCT UP THRU ROOF. PROVIDE ROOF CAP.
A6 SHEET METAL CONTRACTOR TO PROVIDE 10" DIA. GREASE DUCT AND CONNECT TO 10" EXHAUST COLLAR ON THE HOOD. DUCTWORK SHALL BE STAINLESS STEEL GREASE DUCT. REFER TO THE SPECIFICATIONS FOR HOOD INSTALLATION AND DETAILS.
A7 GREASE DUCT UP TO ROOF. PROVIDE ROOF CAP.
A8 GREASE DUCT UP TO EXHAUST FAN ON ROOF. REFER TO KITCHEN CONSULTAN DRAWINGS FOR ROOF LAYOUT AND DETAILS.
A9 SHEET METAL CONTRACTOR TO PROVIDE 12" DIA. GREASE DUCT AND CONNECT TO 10" EXHAUST COLLAR ON THE HOOD. DUCTWORK SHALL BE STAINLESS STEEL GREASE DUCT. REFER TO THE SPECIFICATIONS FOR DUCT CONSTRUCTION AND INSTALLATION REQUIREMENTS. REFER TO THE KITCHEN CONSULTANT DRAWINGS FOR HOOD INSTALLATION AND DETAILS.
A10 SHEET METAL CONTRACTOR TO PROVIDE 14" DIA. GREASE DUCT AND CONNECT TO 10" EXHAUST COLLAR ON THE HOOD. DUCTWORK SHALL BE STAINLESS STEEL GREASE DUCT. REFER TO THE SPECIFICATIONS FOR DUCT CONSTRUCTION AND INSTALLATION REQUIREMENTS. REFER TO THE KITCHEN CONSULTANT DRAWINGS FOR HOOD INSTALLATION AND DETAILS.
A11 GREASE DUCT UP TO EXHAUST FAN ON ROOF. REFER TO KITCHEN CONSULTAN DRAWINGS FOR ROOF LAYOUT AND DETAILS.
A12 GREASE DUCT UP TO EXHAUST FAN ON ROOF. REFER TO KITCHEN CONSULTAN DRAWINGS FOR ROOF LAYOUT AND DETAILS.
A13 GREASE DUCT UP TO EXHAUST FAN ON ROOF. REFER TO KITCHEN CONSULTAN DRAWINGS FOR ROOF LAYOUT AND DETAILS.
A14 GREASE DUCT UP TO EXHAUST FAN ON ROOF. REFER TO KITCHEN CONSULTAN DRAWINGS FOR ROOF LAYOUT AND DETAILS.
A15 24"x16" OUTSIDE AIR DUCT UP TO MAKEUP AIR UNIT ON ROOF. REFER TO THE KITCHEN CONSULTANT DRAWINGS FOR MAU INSTALLATION AND DETAILS.
A16 PROVIDE NEW REFRIGERANT PIPING FOR EXISTING SPLIT SYSTEM.
A17 ALL EXPOSED DUCTWORK ABOVE BAFFLES SHALL BE DOUBLE WALL SPIRAL DUCTWORK AND SHALL BE PAINTED PER ARCHITECTURAL REQUIREMENTS.
A18 4" COMMON INTAKE AND VENT FOR INSTANTANEOUS WATER HEATERS TO GO UP THRU ROOF AT INDICATED LOCATION.
A20 PROVIDE THERMOSTAT FOR RTU-1 ON ROOF.
A21 PROVIDE THERMOSTAT FOR RTU-2 ON ROOF.



RIS CULINARY ARTS
RENOVATION
RUSSELVILLE, KY

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MECHANICAL
- NEW WORK
- ENLARGED
FLOOR PLAN

SHEET NO.

M2.1

RIS CULINARY ARTS
RENOVATION
RUSSELVILLE, KY

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MECHANICAL
- NEW WORK
- ROOF PLAN

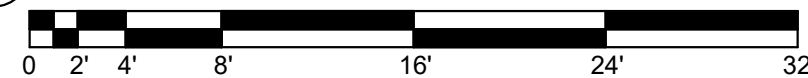
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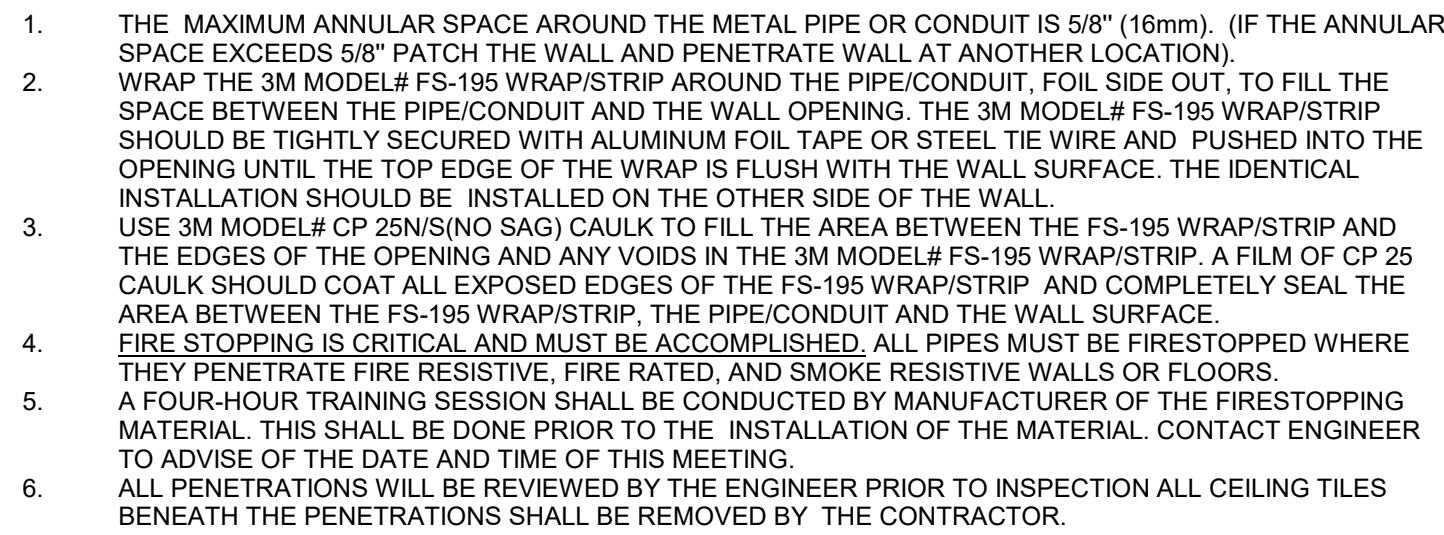
M2.2



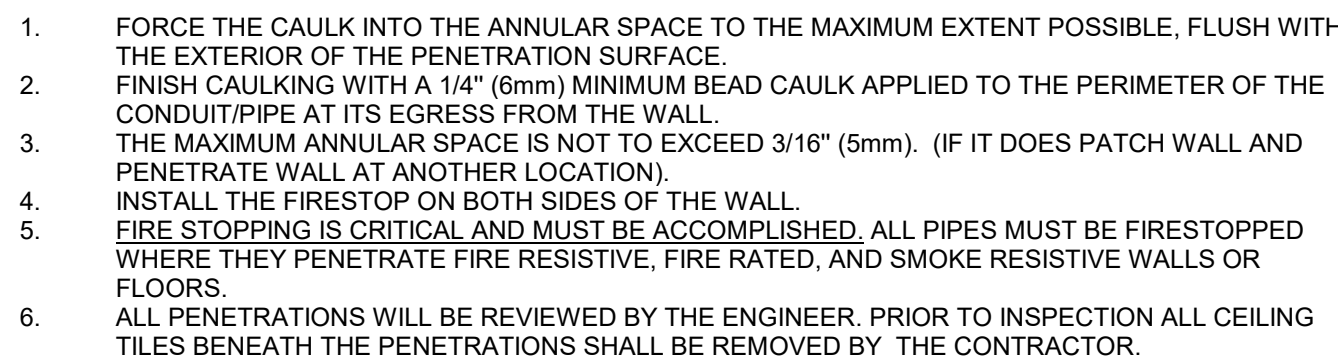
TAGGED NOTES

- A5 4" DRYER EXHAUST DUCT UP THRU ROOF. PROVIDE ROOF CAP.
A8 GREASE DUCT UP TO EXHAUST FAN ON ROOF. REFER TO KITCHEN CONSULTAN DRAWINGS FOR ROOF LAYOUT AND DETAILS.
A11 GREASE DUCT UP TO EXHAUST FAN ON ROOF. REFER TO KITCHEN CONSULTAN DRAWINGS FOR ROOF LAYOUT AND DETAILS.
A12 GREASE DUCT UP TO EXHAUST FAN ON ROOF. REFER TO KITCHEN CONSULTAN DRAWINGS FOR ROOF LAYOUT AND DETAILS.
A13 GREASE DUCT UP TO EXHAUST FAN ON ROOF. REFER TO KITCHEN CONSULTAN DRAWINGS FOR ROOF LAYOUT AND DETAILS.
A14 GREASE DUCT UP TO EXHAUST FAN ON ROOF. REFER TO KITCHEN CONSULTAN DRAWINGS FOR ROOF LAYOUT AND DETAILS.
A15 24"X16" OUTSIDE AIR DUCT UP TO MAKEUP AIR UNIT ON ROOF. REFER TO THE KITCHEN CONSULTANT DRAWINGS FOR MAU INSTALLATION AND DETAILS.
A19 PROVIDE ROOF LEVEL TERMINATIONS WITH ELBOW TRANSITIONS AS REQUIRED BY MANUFACTURER. PROVIDE 3/4" MESH SCREENS.





1 PIPE/C
SCALE: NONE



2 PIPE/C
SCALE: NONE



4 RETURN
SCALE: NONE



5 SCALE: NONE

RIS CULINARY ARTS
RENOVATION
RUSSELVILLE, KY

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MECHANICAL
- CONTROLS

SHEET NO.

M4.0

Residential Operation:
up to 5 hoods @ 300 CFM each to 1500 CFM EA.
MAU runs? 2500 minimum CFM OA when running.

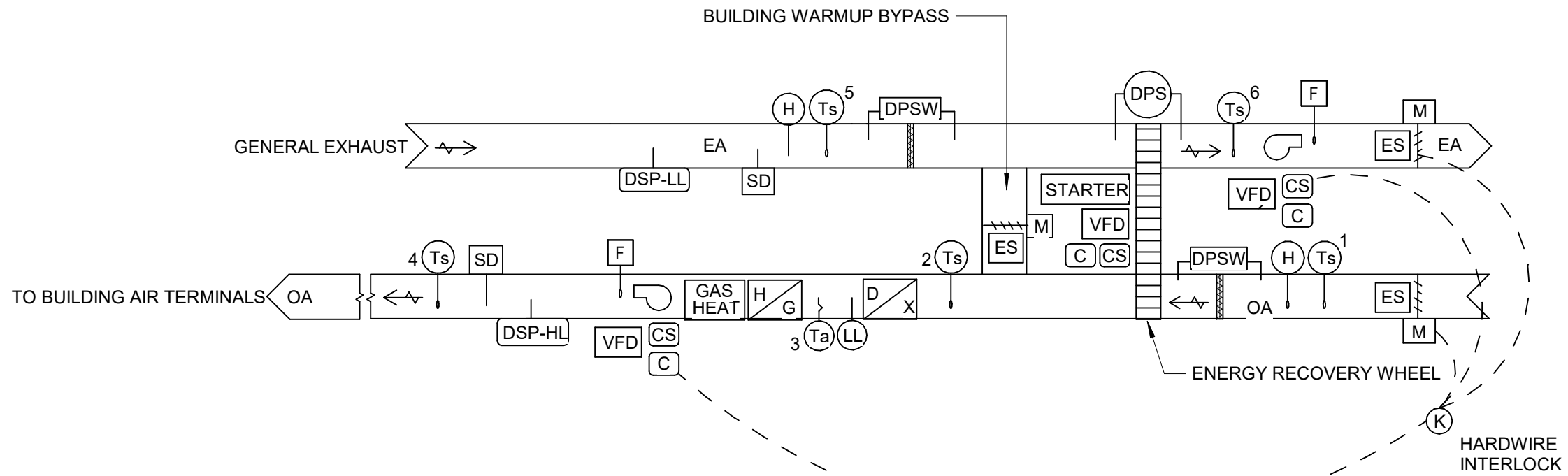
Commercial Operation:
Cooking hoods: 6738 cfm EA.
dishwasher hood: 750 cfm EA.
MAU: 5440 CFM OA.

OUTSIDE AIR SYSTEMS:

- ALL OF THE FOLLOWING CONTROL SEQUENCES PRETAIN TO DOAS-1,2,3 SERVING BATH COUNTY HIGH SCHOOL.
- THE SYSTEM SHALL OPERATE UNDER THE CONTROL OF A LOCAL, STAND-ALONE MICROPROCESSOR BASED DDC CONTROLLER.
- THE SYSTEM SHALL BE PLACED INTO THE OCCUPIED/UNOCCUPIED MODE BASED UPON THE USER ADJUSTABLE SCHEDULE AT THE NETWORK CONTROLLER. THESE SYSTEMS SHALL BE IN THE OCCUPIED MODE DURING REGULAR SCHOOL HOURS ONLY (8:00AM to 3:00PM)
- IF COMMUNICATION IS LOST BETWEEN THE NETWORK CONTROLLER AND THE OUTSIDE AIR SYSTEM CONTROLLER, THEN THE OUTSIDE AIR SYSTEM SHALL BE PLACED INTO THE UNOCCUPIED MODE UNTIL COMMUNICATION IS RESTORED.
- THE SYSTEM WILL BE PLACED INTO A MODE OF OPERATION BASED UPON THE FOLLOWING ADJUSTABLE TEMPERATURE SCHEDULE:

OUTSIDE AIR TEMPERATURE	MODE OF OPERATION
81 DEG F OR GREATER (ADJ.)	COOLING MODE
BETWEEN 50 DEG F AND 81 DEG F (ADJ.)	WHEEL ONLY MODE
50 DEG F OR LESS (ADJ.)	HEATING MODE
- IN THE UNOCCUPIED MODE WHICH OCCURS DURING NON SCHOOL HOURS.
 - THE SUPPLY FAN AND EXHAUST SHALL BE OFF.
 - THE ENERGY RECOVERY WHEEL SHALL BE OFF.
 - THE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER SHALL BE FULLY CLOSED.
 - FACE AND BYPASS DAMPER SHALL BE IN FULL FACE POSITION.
 - MORNING WARM-UP DAMPER SHALL BE CLOSED.
- WHEN PLACED INTO THE OCCUPIED MODE, THE FOLLOWING SHALL OCCUR IN SEQUENTIAL ORDER:
 - THE ENERGY RECOVERY WHEEL SHALL START AND OPERATION SHALL BE PROVIDED VIA CURRENT SWITCH.
 - THE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER SHALL FULLY OPEN AND BE PROVIDED VIA END SWITCH.
 - THE SUPPLY FAN/VFD AND EXHAUST FAN/VFD SHALL START AND OPERATION SHALL BE PROVIDED VIA CURRENT SWITCH.
 - THE SYSTEM SHALL NOT START IF ANY ONE COMPONENT DOES NOT PROVIDE OPERATION.
- IN THE OCCUPIED MODE, THE DX SYSTEM OR GAS FIRED HEATER SHALL MODULATE TO MAINTAIN DISCHARGE AIR TEMPERATURE (ADJ.) BASED UPON THE FOLLOWING SCHEDULE:

DISCHARGE AIR TEMPERATURE	MODE OF OPERATION
68 DEG F (ADJ.)	COOLING MODE
VARIES	WHEEL ONLY MODE
65 DEG F (ADJ.)	HEATING MODE
- COOLING MODE: IF THE OUTSIDE AIR TEMPERATURE IS 81 DEG F (ADJ.) OR GREATER, COOLING MODE SHALL BE ENABLED. THE ENERGY RECOVERY WHEEL SHALL BE ACTIVE. THE DX HEAT PUMP SYSTEM SHALL BE ACTIVE. THE DX COIL CAPACITY SHALL MODULATE WITH THE HOT GAS REHEAT COIL OPERATIONAL TO DISCHARGE 68 DEG F (ADJ.) DISCHARGE TEMPERATURE SETPOINT. SUPPLY FAN SHALL OPERATE AT CONSTANT VOLUME TO MAINTAIN REQUIRED VENTILATION AIRFLOW. EXHAUST FAN SHALL TRACK SUPPLY FAN WITH AN OFFSET AS FOLLOWS: OA-1 OFFSET = 885 CFM (ADJ.), OA-2 OFFSET = 1255 CFM (ADJ.).
- WHEEL ONLY MODE: IF THE OUTSIDE AIR TEMPERATURE IS BETWEEN 50 AND 81 DEG F (ADJ.), WHEEL ONLY MODE SHALL BE ENABLED. THE ENERGY RECOVERY WHEEL SHALL BE ACTIVE. THE HEAT PUMP SYSTEM SHALL BE OFF. THE GAS HEATER SHALL BE OFF. THE DISCHARGE TEMPERATURE SHALL VARY. SUPPLY FAN SHALL OPERATE CONSTANT VOLUME TO MAINTAIN REQUIRED VENTILATION. EXHAUST FAN SHALL TRACK SUPPLY FAN WITH AN OFFSET AS FOLLOWS: OA-1 OFFSET = 885 CFM (ADJ.), OA-2 OFFSET = 1255 CFM (ADJ.).
- HEATING MODE: IF THE OUTSIDE AIR TEMPERATURE IS BELOW 50 DEG F (ADJ.), HEATING MODE SHALL BE ENABLED. THE ENERGY RECOVERY WHEEL SHALL BE ACTIVE. THE HEAT PUMP SYSTEM SHALL BE ACTIVE FOR FIRST STAGE OF HEATING WHEN ABOVE MANUFACTURER'S RECOMMENDED AMBIENT TEMPERATURE. THE MODULATING GAS HEATER SHALL OPERATE AS THE SECOND STAGE OF HEATING IF AMBIENT TEMPERATURE IS TOO COLD PER MANUFACTURER'S REQUIREMENTS. THE DISCHARGE TEMPERATURE SHALL BE 65 DEG F (ADJ.) SUPPLY FAN SHALL OPERATE TO MAINTAIN REQUIRED VENTILATION AIRFLOW. EXHAUST FAN SHALL TRACK SUPPLY FAN WITH AN OFFSET AS FOLLOWS: OA-1 OFFSET = 885 CFM (ADJ.), OA-2 OFFSET = 1255 CFM (ADJ.).
- DEHUMIDIFICATION MODE: WHEN THE DUCT-MOUNTED EXHAUST AIR RELATIVE HUMIDITY SENSOR READS 65% (ADJ.) THE OUTSIDE AIR SYSTEM SHALL OPERATE IN COOLING MODE UNTIL EXHAUST AIR RELATIVE HUMIDITY IS BELOW 60% (ADJ.) AT WHICH TIME THE OUTSIDE AIR SYSTEM WILL RETURN TO NORMAL OPERATING SEQUENCES.
- THE SUPPLY FAN SHALL BE CONTROLLED BY THE VFD. THE SUPPLY FAN SHALL BE SET TO A CONSTANT VOLUME WITH THE VFD PER OA UNIT SCHEDULE. DETERMINE IN THE FIELD WITH THE TAB CONTRACTOR THE VFD SETPOINT TO OBTAIN ACCEPTABLE AIRFLOW AS DESIGNED.
- HARDWARE INTERLOCK SUPPLY FAN, EXHAUST FAN, AND ISOLATION DAMPERS WITH EMERGENCY HVAC/VENTILATION KILL BUTTON.
- THE EXHAUST FAN SHALL TRACK THE OUTSIDE AIR FAN VIA AIRFLOW STATION AND SHALL MAINTAIN AN OFFSET AS FOLLOWS: OA-1 OFFSET = 885 CFM (ADJ.), OA-2 OFFSET = 1255 CFM (ADJ.) TO MAINTAIN A POSITIVE BUILDING PRESSURIZATION. THE VFD SHALL BE UTILIZED TO BALANCE EXHAUST FAN AND TO ALLOW APPROPRIATE TRACKING PER ABOVE.
- THE COOLING COIL IS A DX REFRIGERANT COIL WITH HOT GAS REHEAT COIL FOR TEMPERATURE CONTROL. LOW TEMPERATURE CUTOUT IS LOCATED ON THE DISCHARGE OF THE COIL AND SHALL ACTIVATE WHEN THE LEAVING AIR TEMPERATURE FALLS BELOW 35 DEG F. THE SUPPLY AND EXHAUST FANS SHALL STOP, OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL CLOSE. NOTE: THIS COIL DOES NOT HAVE A FREEZE CONDITION THIS IS FOR OCCUPANT COMFORT.
- A SMOKE DETECTOR SHALL BE LOCATED IN EACH AIR SYSTEM. IF SMOKE IS DETECTED, THEN THE SYSTEM SHALL SHUTOFF AND AN AUDIO/VISUAL ALARM SHALL ACTIVATE. UPON CORRECTION OF PROBLEM, THE SYSTEM SHALL BE RESET AND SHALL RETURN TO NORMAL OPERATION. COORDINATE WITH FIRE ALARM SYSTEM. ANY ACTIVATION OF THE BUILDING'S FIRE ALARM SYSTEM SHALL SHUTDOWN THE OA UNITS COMPLETELY.
- THE UNIT SHALL BE PROVIDED WITH A BUILDING WARM UP/COOL DOWN BYPASS DUCT. THIS BYPASS SHALL CREATE A 100% RECIRCULATING SYSTEM AND NOT USE ANY FRESH AIR SINCE THE BUILDING IS UNOCCUPIED. WHEN THE INDOOR UNOCCUPIED SETBACK TEMPERATURE HAS FALLEN BELOW 62 DEG F (ADJ.) THE FANS SHALL BE ENGAGED AND THE UNIT SHALL DISCHARGE 65 DEG F (ADJ.) 1 HOUR PRIOR TO OCCUPANCY UNTIL EITHER BUILDING TEMPERATURE IS 68 DEG F (ADJ.) OR OCCUPIED TIME IS REACHED. DURING WARM UP/COOL DOWN MODE THE UNITS SHALL OPERATE AT NORMAL CONSTANT VOLUME CFM SETTING TO BOOST TEMPERATURE.
- WHERE INDICATED ON CONTROLS DIAGRAM A FILTER PRESSURE DIFFERENTIAL SENSOR SHALL MONITOR FILTER STATIC PRESSURE AND SHALL ALARM IF PRESSURE DROPS EXCEEDS 0.6" W.G. (ADJ.)
- A STATIC PRESSURE SENSOR (DSP-HL) SHALL BE LOCATED AT DOAS 1,2,3 SUPPLY AIR OUTLET IN THE DISCHARGE PLENUM. IF PRESSURE IN THE SUPPLY PLENUM EXCEEDS 4.0" W.G. (ADJ.) THE FANS SHALL BE SHUT DOWN. UPON CORRECTION OF THE PROBLEM, THE SYSTEM SHALL BE RESET AND UNIT SHALL RETURN TO NORMAL OPERATION. THIS SHALL BE A MANUAL RESET.
- A STATIC PRESSURE SENSOR (DSP-LL) SHALL BE LOCATED AT DOAS 1,2,3 EXHAUST AIR INLET IN THE EXHAUST PLENUM. IF PRESSURE IN THE SUPPLY PLENUM EXCEEDS 4.0" W.G. (ADJ.) THE FANS SHALL BE SHUT DOWN. UPON CORRECTION OF THE PROBLEM, THE SYSTEM SHALL BE RESET AND UNIT SHALL RETURN TO NORMAL OPERATION. THIS SHALL BE A MANUAL RESET.
- VFD DEFROST CONTROL: WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 5 DEGREES F (ADJ.), THE ENERGY WHEEL SHALL SLOW TO 25% OF DESIGN SPEED FOR A PERIOD OF 3 MINUTES. IT SHALL DO THIS EVERY 60 MINUTES.



ROOFTOP UNITS (RTU-1,2) SCHEMATIC

NOT TO SCALE

RTU 1,2 POINTS LIST

POINT DESCRIPTION	POINT NAME	BI	BO	BV	AI	AO	AV	ALARM TYPE	GRAPHIC
DEHUMIDIFICATION SETPOINT	OA_DHUM_SETPT						X		YES
OA INTAKE HUMIDITY SENSOR 1	OA_HUM_S_1					X			YES
EA DISCHARGE HUMIDITY SENSOR 2	EA_HUM_S_2					X			YES
OA EA BYPASS DAMPER	OA_EA_BYP_DAMP_C					X		BOOLEAN COMMAND FAIL	
OA EA BYPASS DAMPER STATUS	OA_EA_BYP_DAMP_ST	X							YES
OA EA BYPASS DAMPER OVERRIDE	OA_EA_BYP_DAMP_OVRD						X		
OA INTAKE DAMPER	OA_INT_DAMP_C					X		BOOLEAN COMMAND FAIL	
OA INTAKE DAMPER STATUS	OA_INT_DAMP_ST	X							YES
OA INTAKE DAMPER OVERRIDE	OA_INT_DAMP_OVRD					X			
EA RELIEF DAMPER	EA_INT_DAMP_C					X		BOOLEAN COMMAND FAIL	
EA RELIEF DAMPER STATUS	EA_INT_DAMP_ST	X							YES
EA RELIEF DAMPER OVERRIDE	EA_INT_DAMP_OVRD					X			
OUTSIDE AIR TEMPERATURE SENSOR 1	OA_TEMP_S_1					X			YES
OUTSIDE AIR TEMPERATURE SENSOR 2	OA_TEMP_S_2					X			YES
OUTSIDE AIR DX TEMPERATURE SENSOR 3	OA_TEMP_S_3					X			YES
SERPENTINE ACROSS COILS									
OUTSIDE AIR TEMPERATURE SENSOR 4 DAT	OA_TEMP_S_4					X			YES
OA PREFILTER STATUS	OA_FLTR_DP_S					X		OUT OF RANGE	YES
SCHEDULE	OCC_S				X				YES
OA FANS START/STOP	OAFAN_RUN_C		X					BOOLEAN COMMAND FAIL	YES
OA FANS START/STOP OVERRIDE	OAFAN_RUN_OVRD			X				BOOLEAN COMMAND FAIL	YES
OA FANS STATUS	OAFAN_RUN_ST	X						BOOLEAN COMMAND FAIL	YES
OA FANS VFD FAULT	OAFAN_VFDFLT_S	X						BOOLEAN CHANGE OF STATUS	YES
OA FANS VFD SPEED	OAFAN_VFD_SPD_C					X			YES
OA FANS VFD SPEED OVERRIDE	OAFAN_VFD_SPD_OVRD								YES
FAN 1 OA AIR CFM	OAFAN1_AF_CFM					X			YES
OA SMOKE DETECTOR	OA_SMOKE_DET	X						BOOLEAN CHANGE OF STATUS	YES
OA STATIC PRESSURE	OA_SP_S				X				YES
OA STATIC PRESSURE SETPOINT	OA_SP_SETPT					X			YES
OA STATIC PRESSURE RESET SETPOINT	OA_SP_RESET_SETPT					X			YES
OCCUPIED COOLING SETPOINT	OCC_CLG_SETPT					X			YES
OCCUPIED HEATING SETPOINT	OCC_HTG_SETPT					X			YES
DUCT STATIC PRESSURE HIGH LIMIT	OA_DSP_HL	X						OUT OF RANGE	YES
DUCT STATIC PRESSURE LOW LIMIT	EA_DSP_LL	X						OUT OF RANGE	YES
UNOCCUPIED BUILDING WARMUP HEATING SETPOINT	UNOCC_WARMUP_HTG_SETPT					X			YES
EA SMOKE DETECTOR	EA_SMOKE_DET	X						BOOLEAN COMMAND FAIL	YES
EXHAUST AIR TEMPERATURE SENSOR 5	EA_TEMP_S_5				X				YES
EXHAUST AIR TEMPERATURE SENSOR 6	EA_TEMP_S_6				X				YES
EA PREFILTER STATUS	EA_FLTR_DP_S				X			OUT OF RANGE	YES
ENERGY RECOVERY WHEEL DIFF. PRESS. SENSOR	ERW_DP_S				X			OUT OF RANGE	YES
ENERGY RECOVERY WHEEL START/STOP	ERW_RUN_C		X					BOOLEAN COMMAND FAIL	YES
ENERGY RECOVERY WHEEL START/STOP OVERRIDE	ERW_RUN_OVRD			X				BOOLEAN COMMAND FAIL	YES
ENERGY RECOVERY WHEEL STATUS	ERW_RUN_ST	X						BOOLEAN COMMAND FAIL	YES
ENERGY RECOVERY WHEEL FREEZE CONTROL	ERW_FRZ_C			X					
EA FANS START/STOP	EAFAN_RUN_C		X					BOOLEAN COMMAND FAIL	YES
EA FANS START/STOP OVERRIDE	EAFAN_RUN_OVRD			X				BOOLEAN COMMAND FAIL	YES
EA FANS STATUS	EAFAN_RUN_ST	X						BOOLEAN COMMAND FAIL	YES
EA FANS VFD FAULT	EAFAN_VFDFLT_S	X						BOOLEAN CHANGE OF STATUS	YES
EA FANS VFD SPEED	EAFAN_VFD_SPD_C					X			YES
EA FANS VFD SPEED OVERRIDE	EAFAN_VFD_SPD_OVRD						X		YES
FAN 1 EA AIR CFM	EAFAN1_AF_CFM					X			YES
UNOCCUPIED SCHEDULE	UNOCC_S			X					YES

ROOFTOP AIR HANDLING UNIT SCHEDULE																														
MARK	MANUFACTURER	MODEL #	PHYSICAL INFORMATION				FAN SECTION							AMBIENT SUMMER TEMPERATURE (DBWB)	AMBIENT WINTER TEMPERATURE (DBWB)	COOLING SECTION				HEATING SECTION				GAS PRESSURE MIN/MAX (IN H2O)	OPERATING EER	ELECTRICAL INFORMATION				REMARKS
			LENGTH	WIDTH	HEIGHT	WEIGHT	SUPPLY CFM	SUPPLY ESP (IN WG)	OUTSIDE AIR CFM	SA FAN RPM	SA FAN BHP	SA FAN HP	OA FAN HP			TOTAL CAPACITY BTU/HR	SENSIBLE CAPACITY BTU/HR	EAT DB/WB	LAT DB/WB	TOTAL HEATING CAPACITY BTU/HR	EAT (DB/WB)	LAT (DB/WB)	NATURAL GAS INPUT MBH			VOLTAGE RATING	UNIT FLA	MCA	MOCP	
RTU-1	DAIKIN	DPSC05B	84.5"	53.3"	69.5"	1045	1350	1	550	1755	.57	3	0	95/78	0/0	55799	37711	83.1/69	56.1/55.5	97,200	38	104.4	120	5/14	12.5	208V/60HZ/3PH	34.2	38.8	50	
RTU-2	DAIKIN	DPSC10B	101.6"	73.4"	85.9"	2289	4000	1	800	1690	1.72	2.4	.5	95/78	0/0	125679	100538	79/65.6	54.9/54.9	162,000	52.9	90.2	200	5/14	11.8	208V/60HZ/3PH	56.7	65.5	100	

REMARKS:

1.

REGISTERS, GRILLES, AND DIFFUSERS SCHEDULE												
MARK	MANUFACTURER	MODEL #	TYPE	GRILLE SIZE	PANEL SIZE	DUCT INLET SIZE	DUCT BRANCH SIZE	MAX CFM	P.D.	NOISE CRITERIA	THROW PATTERN	REMARKS
R-1	TITUS	50F	ALUMINUM 1/2" EGG CRATE	24"X24"	24"X24"	6" DIA.	6" DIA.	100	0.05	25	-	
R-3	TITUS	50F	ALUMINUM 1/2" EGG CRATE	24"X24"	24"X24"	10" DIA.	10" DIA.	400	0.05	25	-	
R-5	TITUS	50F	ALUMINUM 1/2" EGG CRATE	24"X24"	24"X24"	14" DIA.	14" DIA.	1000	0.05	25	-	
S-1	TITUS	OMNI-AA	ALUMINUM ADJUSTIBLE SQUARE DIFFUSER	24"X24"	24"X24"	6" DIA.	6" DIA.	100	0.02	10	4-WAY	
S-2	TITUS	OMNI-AA	ALUMINUM ADJUSTIBLE SQUARE DIFFUSER	24"X24"	24"X24"	8" DIA.	8" DIA.	225	0.05	10	4-WAY	
S-3	TITUS	OMNI-AA	ALUMINUM ADJUSTIBLE SQUARE DIFFUSER	24"X24"	24"X24"	10" DIA.	10" DIA.	400	0.09	17	4-WAY	
S-5	TITUS	PMC	STEEL PERFORATED CEILING DIFFUSER	24"X24"	24"X24"	12"X12"	12"X12"	400	0.05	17	VARIABLE	

HOOD SCHEDULE									
MARK	MANUFACTURER	MODEL #	SERVICE	DIMENSIONS (FT)			CFM	PD (" WC)	REMARKS
				LENGTH	DEPTH	HEIGHT			
H-1	ECON-AIR	242 ELPX-2-R	RESIDENTIAL	3.0	2.0	2.0	300	0.09	



RIS CULINARY ARTS
RENOVATION
RUSSELVILLE, KY

DATE	1/1/2025
PROJ. NO.	24-23
DRAWN BY:	Author

REVISION	DATE
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MECHANICAL
- SCHEDULES

SHEET NO.

M5.0

UM1.0



1 MECHANICAL - NEW WORK - SITE PLAN
UM2.0 1/16" = 1'-0"

TAGGED NOTES

UM1 CONNECT 4" SANITARY MAIN FROM BUILDING TO EXISTING MANHOLE. MANHOLE INVERT =624.93'. SANITARY INVERT AT MANHOLE= 622.45'

BEFORE YOU DIG

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BUD" (BEFORE YOU DIG) AT 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BUD" TO OBTAIN AN AUTHORIZATION NUMBER.

MECHANICAL SITE NOTES

- A DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS.
- B CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, etc. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK.
- C FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.
- D WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICES IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.
- E PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY, THE ARCHITECT AND THE BUILDING OPERATORS AT LEAST ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK.
- F LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY. (CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL ALSO BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE BUILDING ENGINEER AND THE MECHANICAL ENGINEER'S REPRESENTATIVE), CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES.
- G CONTRACTOR SHALL VERIFY EXACT LOCATION OF OUTDOOR RECEPTACLES WITH OWNER PRIOR TO ROUGH-IN.
- H CONTRACTOR SHALL REFER TO CIVIL PLANS FOR COORDINATION WITH OTHER UTILITIES.
- I COORDINATE ELEVATION AND LOCATION OF ALL CONDUITS ENTERING BUILDING WITH STRUCTURAL FOUNDATION. CONDUIT SHALL PASS THROUGH STEM WALL OF FOUNDATION OR UNDER FOOTING AS REQUIRED.
- J THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE DRAWINGS ARE APPROXIMATE ONLY.
- K THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY OTHER AFFECTED UTILITY OWNERS PRIOR TO DIGGING. IN THE EVENT OF ACCIDENTAL INTERRUPTION OF SERVICE, CONTRACTOR WILL IMMEDIATELY NOTIFY THE OTHER UTILITY OWNERS.
- L THE UTILITY/CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD OTHER EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE OTHER UTILITIES, THE UTILITY WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT.
- M COORDINATE UNDERGROUND ELECTRICAL WITH ALL LANDSCAPING AND FENCING, ADJUST ELECTRICAL LINES TO AVOID CONFLICTS. REFER TO LANDSCAPING PLANS FOR FURTHER INFORMATION. AVOID ROUTING UNDERGROUND CONDUITS UNDER ROADWAYS OR PARKING LOTS, CROSS ROADWAYS WITH UNDERGROUND CONDUITS AT 90 ANGLES WHERE POSSIBLE.
- N IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INSURE THAT ANY ABANDONED PIPING UNCOVERED IN THE COURSE OF THEIR WORK SHALL BE CAPPED WATER TIGHT.
- O TRENCHES FOR UTILITIES SHALL BE BACKFILLED PER MECHANICAL DETAILS AND SPECIFICATIONS. PAVEMENT, ASPHALT, AND OTHER SURFACE WORK SHALL BE PER CIVIL ENGINEERING DRAWINGS AND SPECIFICATIONS.
- P THE CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE RINGS AND COVERS AFFECTED BY THIS PROJECT AS NECESSARY TO BE FLUSH WITH NEW GRADE.
- Q CONTRACTOR SHALL COORDINATE RESPONSIBILITIES WITH CONSTRUCTION MANAGER. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- R THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND SIZING OF ALL EXPANSION LOOPS PER PIPING MANUFACTURER'S REQUIREMENTS.
- S REFER TO ARCHITECT'S PHASING PLAN FOR CONSTRUCTION PHASING REQUIREMENTS.
- T ALL SITE WORK SHALL BE COORDINATED WITH UNIVERSITY OF KENTUCKY PHYSICAL PLANT DIVISION (PPD). ALL OUTAGES SHALL BE SCHEDULED A MINIMUM OF TWO WEEKS IN ADVANCE.

SITE UTILITIES LEGEND

	EXISTING, DEMOLITION, NEW WORK
	SANITARY MANHOLE
	FIRE HYDRANT
	WATER VALVE
	EXTERIOR CLEANOUT
	THRUST BLOCK
	NEW PIPING - (XXX) DENOTES SYSTEM
	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
	EXISTING PIPING - (XXX) DENOTES SYSTEM
	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM
	OVERHEAD PRIMARY
	OVERHEAD SECONDARY
	OVERHEAD STREET LIGHT
	OVERHEAD TRAFFIC SIGNAL
	OVERHEAD TELECOMMUNICATIONS
	OVERHEAD FIBER OPTIC
	OVERHEAD CATV
	UNDERGROUND PRIMARY
	UNDERGROUND SECONDARY
	UNDERGROUND STREET LIGHT
	UNDERGROUND TRAFFIC SIGNAL
	UNDERGROUND TELECOMMUNICATIONS
	UNDERGROUND FIBER OPTIC
	UNDERGROUND CATV
	CHILLED WATER
	DOMESTIC WATER
	HIGH PRESSURE SUPPLY/R
	PUMPED DISCHARGE RETURN
	SANITARY SEWER
	STORM

UTILITY COMPANY CONTACTS:

POWER:		
COMPANY	FirstName LastName	### ####
TELEPHONE:		
COMPANY	FirstName LastName	### ####
CABLE TELEVISION:		
COMPANY	FirstName LastName	### ####
WATER SEWER:		
COMPANY	FirstName LastName	### ####
GAS:		
COMPANY	FirstName LastName	### ####
FIRE CHIEF:		
FIRE DEPARTMENT	FirstName LastName	### ####
IT IS THE CONTRACTORS RESPONSIBILITY TO MEET ALL LOCAL ORDINANCE AND MUNICIPAL REQUIREMENTS RELATED TO UTILITY INSTALLATION, INSPECTIONS, MATERIALS, FEES, ETC.		

RIS CULINARY ARTS
RENOVATION
RUSSELVILLE, KY

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MECHANICAL
- NEW WORK
- SITE PLAN

SHEET NO.

UM2.0

DESCRIPTION	MOUNTING HEIGHT	SYMBOL
LIGHTING CONTROLS		
LIGHT SWITCH LOW VOLTAGE (WHEN PRESENT, # INDICATES QUANTITY OF CHANNELS)	46"	\$ #
EXAM LIGHT SWITCH	46"	\$ X
NIGHT LIGHT SWITCH WITH CONSTANTLY ILLUMINATED HANDLE	46"	\$ N
SURGICAL LIGHT INTENSITY CONTROL	46"	\$ SL
LOW VOLTAGE DIMMER SWITCH (WHEN PRESENT, # INDICATES QUANTITY OF CHANNELS)	46"	\$ DM
GRAPHIC TOUCHSCREEN CONTROL STATION	46"	\$ G
LINE VOLTAGE SWITCH	46"	\$ LV
LINE VOLTAGE THREE-WAY, FOUR-WAY SWITCH	46"	\$ LV3 \$ LV4
LINE VOLTAGE THREE-WAY, FOUR-WAY DIMMER SWITCH	46"	\$ LV3D \$ LV4D
KEYED SWITCH	46"	\$ K
OCCUPANCY OR VACANCY SENSOR SWITCH	46"	\$ OS \$ VS
OCCUPANCY OR VACANCY SENSOR SWITCH WITH DIMMING	46"	\$ DOS
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	46"	\$ U
ILLUMINATED HANDLE LIGHT SWITCH (ILLUMINATED WHEN LOAD IS OFF)	46"	\$ L
PILOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)	46"	\$ PL
TIMER SWITCH	46"	\$ T
OCCUPANCY OR VACANCY SENSOR, CEILING MOUNT	CLG	\$ OS \$ VS
OCCUPANCY SENSOR, CORNER MOUNT	CLG	\$ OS
DAYLIGHT SENSOR	AS NOTED	\$ OS
PHOTOCELL	AS NOTED	\$ OS
LIGHTING RELAY	AS NOTED	\$ RS
EMERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING CONTROLS (REFER TO DETAIL)	CLG	\$ ES
POWER OUTLETS		
SIMPLEX RECEPTACLE (WHERE PRESENT, TEXT INDICATES RECEPTACLE TYPE)	1'-6"	Ø
DUPLEX RECEPTACLE	1'-6"	Ø
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPASH (WHERE PRESENT, TEXT INDICATES RECEPTACLE TYPE)		Ø
'G' INDICATES INTEGRAL GROUND FAULT PROTECTION (GFCI)	1'-6"	Ø
DEAD FRONT GFCI DEVICE, LABEL AND INSTALL IN READILY ACCESSIBLE LOCATION		Ø
DUPLEX RECEPTACLE WITH TWO INTEGRAL USB CHARGING PORTS	1'-6"	Ø
USB CHARGING OUTLET WITH FOUR INTEGRAL USB PORTS	1'-6"	Ø
GANG RECEPTACLE IN COMINATION WITH SWITCH (PROVIDE DIVIDER IF LIGHTING CIRCUIT IS 277V)	46"	Ø GS
DUPLEX RECEPTACLE, CEILING MOUNTED	CLG	Ø
QUADRUPLX RECEPTACLE	1'-6"	Ø
JUNCTION BOX, CEILING OR WALL		Ø
VOLTAGE2 POLE RECEPTACLE, TEXT INDICATES NEMA TYPE	1'-6"	Ø
VOLTAGE2 POLE RECEPTACLE, TEXT INDICATES NEMA TYPE	1'-6"	Ø
'I' INDICATES SAFETY TYPE, TAMPER RESISTANT OUTLET(S)		Ø
SS INDICATES SURGE SUPPRESSION TYPE OUTLET(S)		Ø
GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF 'W' IN USE TYPE OR CAST METAL COVERPLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS	2'-2"	Ø WP
DUPLEX FOR ELECTRIC WATER COOLER, COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR TO CONCEAL OUTLET BEHIND COOLER, PROVIDE READILY ACCESSIBLE GR DEVICE AT 18" ADJACENT TO WATER COOLER		Ø EWC
BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKBOX/REMOLO		Ø
CIRCLE ON ANY DEVICE INDICATES DEVICE FED FROM STUB UP CONDUIT		Ø
FIRE ALARM		
MAIN CONTROL PANEL CENTRAL PROCESSING UNIT (CPU)	6'-6" TO TOP	1622P
REMOTE L.C.D. FIRE ALARM ANNUNCIATOR	54"	16A1
REMOTE FIRE ALARM ANNUNCIATOR W/ MICROPHONE	54"	16A10
LOCAL OPERATOR CONSOLE	54"	16OC
SMOKE EVACUATION CONTROL PANEL	54"	16EC
POWER SUPPLY/CONTROL FOR AUDIOVISUAL DEVICES	46"	16ND
TRANSPONDER CABINET	46"	16SA1
GRAPHICS DISPLAY TERMINAL		16DT
FIRE ALARM CONTROL EXTENDER		16XT
POST INDICATOR VALVE		16V
PULL STATION - DOUBLE ACTION	46" TO LEVER	16
KEYED LOCKED PULL STATION - DOUBLE ACTION, STATION SHALL ONLY BE OPERABLE VIA KEY IN POSSESSION OF STAFF	46" TO LEVER	16K
AUDIOVISUAL NOTIFICATION APPLIANCE	WALL, CLG	16N
AUDIO-ONLY NOTIFICATION APPLIANCE	WALL, CLG	16N
VISUAL-ONLY NOTIFICATION APPLIANCE	WALL, CLG	16N
BELL, LIGHT	80"	16L
BELL, ONLY	80"	16L
PHOTO-ELECTRIC SMOKE DETECTOR	CLG	16SD
PHOTO-ELECTRIC SMOKE DETECTOR FOR PATIENT ROOM MONITORING (SEE RISER)	CLG	16SDP
PROJECTED BEAM SMOKE DETECTOR, EMITTER (BE) AND RECEIVER (BR)		16E 16R
HEAT DETECTOR	CLG	16H
CARBON MONOXIDE DUCT DETECTOR	ABOVE CEILING	16D
CARBON MONOXIDE ALARM, SINGLE STATION W/ SOUNDER BASE	CLG	16D
CARBON MONOXIDE AUDIOVISUAL NOTIFICATION APPLIANCE	WALL	16D
DOOR HOLDER - WALL TYPE	WALL	16D
DOOR HOLDER - CLOSURE TYPE	ABV DOOR	16D
DUCT SMOKE DETECTOR	ABV CLG	16D
CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE MODULE		16S
CONNECTION TO SPRINKLER TAMPER SWITCH WITH ADDRESSABLE MODULE		16S
PRESSURE SWITCH		16S
ISOLATION MODULE	WALL	16I
ZONE ADDRESSABLE MODULE		16I
H.V.A.C. SMOKE DAMPER CONNECTION		16D
FLUSH MOUNTED REMOTE ALARM INDICATING STATION/TEST SWITCH	7'-6"	16D
FIREMAN'S PHONE JACK	4'-6"	16F
FIREMAN'S KNOX BOX CONNECTION		16K
ADDRESSABLE RELAY MODULE		16R
INDICATES VANDAL-PROOF POLYCARBONATE COVER, VANDAL PROOF COVERS SHALL BE UL LISTED FOR USE WITH THE SPECIFIC DEVICE THEY ARE PROTECTING		VR
INDICATES CHIME AUDIBLE NOTIFICATION		CH
DEVICE USED FOR ELEVATOR CONTROL		EL

DESCRIPTION	MOUNTING HEIGHT	SYMBOL
LIGHTING FIXTURES AND EQUIPMENT		
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC		
SURFACE OR SUSPENDED CEILING FIXTURE		
RECESSED CEILING FIXTURE		
COMBINATION POWER AND DATA OUTLET LOCATION, GFCI DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION		
POLE MOUNTED AREA LIGHT WITH CONCRETE BASE		
LIGHTED BOLLARD WITH CONCRETE BASE		
EMERGENCY BATTERY WALL-PACK		
WALL MOUNT FIXTURE		
TRACK COMPLETE WITH POWER SUPPLIES AND FIXTURE HEADS		
FLOODLIGHT		
EXT LIGHT (CEILING, END, WALL MOUNT) WITH OR WITHOUT DIRECTIONAL ARROWS, WITH OR WITHOUT EGRESS HEADS		
STRIP FIXTURE		
CROSS-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY CRITICAL BRANCH		
PARALLEL-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY LIFE SAFETY BRANCH		
REMOTE LIGHT FIXTURE DRIVER	AS NOTED	16D
REMOTE BATTERY BACKUP	AS NOTED	16D
CENTRAL BATTERY INVERTER	AS NOTED	16D
MISCELLANEOUS		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROWS INDICATE HOME RUN & OF CIRCUITS. HATCHMARKS INDICATE # OF CONDUCTORS.		
NON-REVERSING MOTOR STARTER SNAP SWITCH	AS NOTED	\$ M
MOMENTARY CONTACT SWITCH	46"	\$ MC
HAND-OFF-AUTO 3 POSITION SWITCH	46"	\$ HOA
DISCONNECT SWITCH	5'-0"	
MAGNETIC STARTER	5'-0"	
MAGNETIC COMBINATION STARTER	5'-0"	
VARIABLE FREQUENCY DRIVE	5'-0"	
ENCLOSED FLUSH MTD. CIRCUIT BREAKER	5'-0"	
MUSHROOM SWITCH	46"	
PUSHBUTTON STATION WITH 1, 2, OR 3 BUTTONS	46"	
PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-6" TO TOP	
TRANSFORMER	AS NOTED	
EQUIPMENT HARDWARE CONNECTION (SEE DETAIL)		
KITCHEN EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)		
NOTICE CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULES		
PLUMBING FIXTURE, SOLIDNO VALVE/ELECTRIC EYE SENSOR CONNECTION, COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER.		
PLUMBING FIXTURE, ELECTRIC EYE TRANSFORMER CONNECTION, TRANSFORMER SHALL BE 120V/240V MOUNT ABOVE SUSPENDED ACCESSIBLE CEILING IN JBOX, PROVIDE ADDITIONAL TRANSFORMERS OF SAME TYPE AS/IF NEEDED		
PROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL SPECIFICATIONS)	VERIFY WITH ARCHITECT	
SURGE PROTECTION DEVICE (SURFACE OR FLUSH MOUNTED)		SPD
GENERATOR ANNUNCIATOR PANEL (SURFACE OR FLUSH MOUNTED) - SEE SPECIFICATIONS	46"	GENA
CONDUIT UP		
CONDUIT DOWN		
FLEXIBLE CONDUIT		
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	
BUS DUCT, AMPERAGES AS NOTED	AS SHOWN	
WIREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS SHOWN	
TRENCH DUCT (SIZE AS NOTED)	AS SHOWN	
WIRE BASKET CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LADDER CABLE TRAY, SIZE AS NOTED	AS SHOWN	
SOLID BOTTOM CABLE TRAY, SIZE AS NOTED	AS SHOWN	
J-HOOK PATHWAY		
EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE		
MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)		
TAGGED NOTE		
REVISION TAG		
PANEL FURNITURE		
PANEL FURNITURE DUPLEX RECEPTACLE, PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNERS PANEL FURNITURE VENDOR		
PANEL FURNITURE QUADRUPLX RECEPTACLE, PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNERS PANEL FURNITURE VENDOR		
PANEL FURNITURE DATA/VOICE OUTLET, PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNERS PANEL FURNITURE VENDOR	1'-6"	
POWER CONNECTION TO PANEL FURNITURE, PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE, PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR		
COMBINATION POWER AND LOW VOLTAGE CONNECTION TO PANEL FURNITURE, PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE, PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR	1'-6"	
ABBREVIATIONS		
UNLESS OTHERWISE NOTED		
OWNER FURNISHED CONTRACTOR INSTALLED		UN
OWNER FURNISHED OWNER INSTALLED		OFU
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFU
CONTRACTOR FURNISHED OWNER INSTALLED		OFU
INDICATES EMERGENCY POWER		EM
WIREGUARD, PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		WG
WEATHERPROOF - NEMA-3R, WET LOCATION USED, PROVIDE COVERS, RATINGS, ETC. AS SUITABLE FOR OUTDOORS		WP
EXPLOSION PROOF - PROVIDE WIRING METHODS, ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION		XP

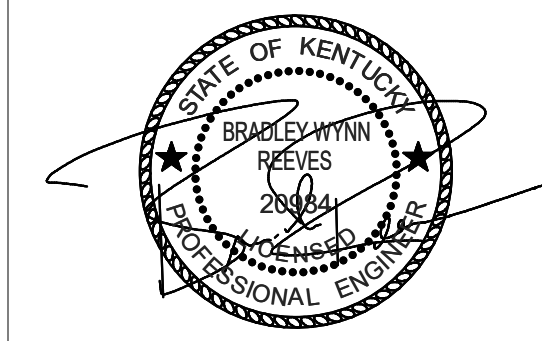
DESCRIPTION	MOUNTING HEIGHT	SYMBOL
SPECIAL OUTLETS		
FLOORBOX, AS SCHEDULED	FLOOR	16FB
POKE-THRU, AS SCHEDULED	FLOOR	16FT
WALLBOX, AS SCHEDULED	WALL	16WB
AUDIO/VISUAL SYSTEM OUTLET WITH DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	AV
COMBINATION POWER AND DATA OUTLET LOCATION, GFCI DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	
OVERHEAD PROJECTOR, PROVIDE DUPLEX RECEPTACLE, ONE DATA, HDMI, 3.5mm AUDIO, AND VGA OUTLET ON (3) PLATES	CLG	
SPECIAL VIDEO SYSTEM SIGNAL INPUT		-NA-
SURFACE PLUG-MOLD		
SURFACE WIRE-MOLD		
POWER POLE AS NOTED		16P
LIGHTNING PROTECTION		
AIR TERMINAL, LENGTH, MATERIAL, AND TYPE OF TIP PER SPECIFICATIONS	REFER TO DETAILS	
LIGHTNING PROTECTION SYSTEM COPPER GROUND ROD, LENGTH, DIAMETER PER SPECIFICATIONS	REFER TO DETAILS	
LIGHTNING PROTECTION SYSTEM CONDUCTOR, TYPE AND MATERIAL PER SPECIFICATIONS	REFER TO DETAILS	
TELEVISION		
TELEVISION HEADEND (SPLITTERS/AMPLIFIERS/DISTRIBUTION)	46"	TV
TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE, COORDINATE LOCATION WITH WALL BRACKET WHERE APPLICABLE	7'-0"	T
OVERHEAD PAGING		
PAGING SPEAKER, CEILING	CLG	Ø
PAGING SPEAKER W/ VOLUME CONTROL	CLG	Ø
PAGING SPEAKER, WALL	6'-0"	Ø
RECESSED WALL MOUNTED PAGING SPEAKER DUKANE S406 SPEAKER ATLAS 417-8WD	6'-0"	Ø
VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER, QUAM VPS	SEE FLOOR PLANS	Ø
EXTERIOR VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER, SHALL BE PAINTED COLOR SELECTED BY ARCHITECT/OWNER, QUAM VPS	SEE FLOOR PLANS	Ø WP
WALL MOUNTED PAGING HORN	6'-0"	Ø
CALL INITIATION STATION	46"	Ø
WALL VOLUME CONTROL	46"	Ø
PAGING MICROPHONE	1'-6"	Ø
PANIC BUTTON (MOUNTING PER DRAWINGS)	46" UNDER DESK	Ø
NOTIFICATION LIGHT (MOUNTING PER DRAWINGS)	7'-6", CLG	Ø
LCD WALL DISPLAY		16D
PAGING SYSTEM HEADEND	46"	16A
CLOCKS		
TYPICAL CLOCK MOUNTING HEIGHTS FOR CEILING HEIGHTS < 8'-6" MOUNT CENTER OF BACKBOX AT 8" BELOW CEILING. FOR CEILING HEIGHTS >= 8'-6" MOUNT CENTER OF BACKBOX AT 9'-0" AFF.		
ANALOG CLOCK, SINGLE FACE	SEE ABOVE	Ø
ANALOG CLOCK, DUAL FACE	SEE ABOVE	Ø
DIGITAL CLOCK, SINGLE FACE	SEE ABOVE	Ø
DIGITAL CLOCK, DUAL FACE	SEE ABOVE	Ø
CLOCK SYSTEM HEAD END	84"	16CCK
AV SYSTEMS		
PROJECTOR WITH MOUNT (CEILING OR WALL AS INDICATED)	REFER TO DRAWINGS	Ø
LOCAL SOUND SPEAKER, CEILING	CLG	Ø
WIRELESS MICROPHONE ANTENNA	CLG	Ø
LOCAL SOUND SPEAKER, WALL	REFER TO SPECS.	Ø
MICROPHONE INPUT: # INDICATES NUMBER OF INPUTS (MOUNTING PER DRAWINGS)	1'-6", CLG	Ø
AV INPUT (OR OUTPUT) WALL PLATE, REFER TO DRAWINGS AND SPECIFICATIONS FOR TYPE AND QUANTITY OF CONNECTIONS.		
WIRELESS MICROPHONE ANTENNA, WALL MOUNT	REFER TO SPECS.	Ø
BLUETOOTH INPUT MODULE	1'-6"	Ø
AV TOUCHSCREEN CONTROL STATION	46"	Ø
LOCAL SOUND SYSTEM HEADEND	REFER TO SPECS.	16LS
LINE/TYPE LEGEND		
-----	EXISTING	
-----	DEMOLISHED	
-----	NEW	

DESCRIPTION	MOUNTING HEIGHT	SYMBOL
SECURITY PANIC ALARM		
PANIC ALARM BUTTON	SEE DRAWINGS	16P
PANIC ALARM ANNUNCIATOR	46"	16P
PANIC ALARM STROBE - REFER TO SPECIFICATIONS FOR LENS AND HOUSING COLOR	SAME AS FIRE ALARM	16P
PANIC ALARM POWER SUPPLY CABINET	5'-0"	16SCP
SECURITY INTERCOM		
AUDIO/VIDEO INTERCOM STATION, MASTER WITH SELECTIVE DOOR CONTROLS, POWER SUPPLIES & DOOR RELAY CONTACTS AS REQUIRED FOR OPERATION OF ANY DOOR IN THE SYSTEM AND VIEWING OF ANY AUDIO/VIDEO INTERCOM REMOTE ON THE SYSTEM APPROXIMATELY WIDEST STAND - COLOR BY ARCHITECT.	DESK MOUNT	16D
AUDIO/VIDEO INTERCOM STATION, REMOTE WITH FLUSH-MTD S.S. ENCLOSURE, APPROX 8"X10"	46"	16D
SECURITY ACCESS CONTROL		
DOOR ALARM	DOOR FRAME	16D
DOOR POSITION SWITCH	DOOR FRAME	16D
MAGNETIC LOCK(S)	ABV DOOR	16D
ELECTRIC LOCKSET	AT LATCH	16D
DOOR DELAYED EGRESS/ELECTRIFIED PANIC MECHANISM	ABV DOOR	16D
ELECTRIC STRIKE	AT LATCH	16D
AUTOMATIC DOOR CONNECTION MAY ALSO HAVE ELECTRIC STRIKING/LOCKELECTRIFIED PANIC CONNECTION - SEE ARCHITECTURAL HARDWARE SPECIFICATIONS	CLG	16D
DOOR RELEASE PUSH-PLATE / INFRARED OPERATOR STATION, PROVIDE ANY ADDITIONAL ROUGH-IN FOR 'EMERGENCY RELEASE' OPERATOR STATIONS AS REQUIRED.	46"	16D
DOOR RELEASE KEYSWITCH STATION	6'-0"	16D
DOOR RELEASE KEYPAD STATION	46"	16D
DOOR RELEASE PROXIMITY READER STATION, PROVIDE ANY ADDITIONAL ROUGH-IN FOR 'EMERGENCY RELEASE' OPERATOR STATIONS AS REQUIRED.	46"	16D
SAME AS "PR" EXCEPT MULLION MOUNT	46"	16D M
MOTION SENSOR DOOR CONTROL	CLG	16D
PUSH-TO-EXIT BUTTON	46"	16D
REMOTE DOOR RELEASE PUSH-BUTTON	8" ACT	16D
RECESSED JUNCTION BOX	SEE DRAWINGS	16D
ACCESS CONTROL HEADEND	5'-0"	16SCP
SECURITY CCTV VIDEO SURVEILLANCE		
CCTV CAMERA, CEILING MOUNT DOME (TEXT INDICATES TYPE) REFER TO SCHEDULE FOR TYPES	CLG	16MC
CCTV CAMERA, WALL MOUNT DOME (TEXT INDICATES TYPE) REFER TO SCHEDULE FOR TYPES	WALL	16MC
INDICATES EXTERIOR CAMERA RATED FOR CONDITIONS, WET LOCATION LISTED, WITH AUXILIARY HEATER		WP
INDICATES CAMERA WITH PAN/TILT/ZOOM FUNCTION		PTZ
CCTV HEAD END	SEE DRAWINGS	16SCP
SECURITY INTRUSION DETECTION		
MOTION DETECTOR (WALL OR CEILING MOUNT)	CLG	16D
GLASS BREAK SENSOR (WALL OR CEILING MOUNT)	CLG	16D
LOCAL SOUNDER	SEE DRAWINGS	16D
INTRUSION DETECTION KEYPAD CONTROLLER	46"	16D
SECURITY SYSTEM HEAD END	5'-0"	16SCP
DATA / VOICE		
DATA OUTLET - NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS, NO NUMBER INDICATES 1 JACK.	1'-6"	20
VOICE OUTLET - NUMBER BESIDE OUTLET INDICATES NUMBER OF VOICE JACKS, NO NUMBER INDICATES 1 JACK.	1'-6"	20HV
COMBINATION OUTLET - NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA/VOICE JACKS	1'-6"	20HV
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPASH		PAY
OUTLET (VOICE ONLY): PAYPHONE TYPE	AS REQD.	PAY
DATA RACK, TWO POST, REFER TO COMMUNICATIONS RISERS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.		
DATA RACK, FOUR POST, REFER TO COMMUNICATIONS RISERS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.		
TELECOMMUNICATIONS SYSTEM BACKBOARD, PROVIDE 86" x 34" FIRE RETARDANT TV VIDEO BACKBOARD WITH TWO (2) COATS OF NON-CONDUCTIVE, FIRE-RETARDANT LIGHT GRAY PAINT, #30 TO GROUND BAR AT MAIN SERVICE SWITCHBOARD, SLPT GROUND BAR AND A 6" x 4" #4 ANGLE POSTAL AT BACKBOARD, INSTALL BOARD AT 2" AFF. (LENGTH OF BOARD AS INDICATED ON FLOOR PLAN)		
WIRELESS ACCESS POINT OUTLET WITH PROVISIONS FOR (2) DATA OUTLET FOR ANTENNA, PROVIDE A COMPLETE DATA OUTLET WITH FACEPLATE ABOVE CEILING, MOUNTED AT AN ACCESSIBLE HEIGHT NO MORE THAN 26" ABOVE CEILING. AT EACH OUTLET, PROVIDE A 2" COIL OF CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF FINAL OUTLET LOCATION. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH THE OWNER AND ADJUST OUTLET LOCATIONS AT SUBSTANTIAL COMPLETION TO ACCOMMODATE OWNERS WAP LOCATIONS.	CEILING	WAP
	WALL	WAP

Letter
(Number
(Symbol
box)

ELECTRICAL GENERAL NOTES

- Note Text
- EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS, VERIFY SAME WITH SHOP DRAWINGS.
 - ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.
 - WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES, INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72 (NATIONAL FIRE ALARM AND SIGNALING CODES), ETC.
 - CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.
 - INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER.
 - ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
 - WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.
 - DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
 - OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.)
 - MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UON. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UON.
 - INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.
 - DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.
 - THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
 - ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER.
 - ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.
 - UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIME AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT.
 - WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT.
 - THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK (ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.).
 - COORDINATE WITH ARCHITECTURAL, FLOOR PLANS, ELEVATIONS AND CASEWORK DETAILS FOR LOCATION OF ADDITIONAL RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC.
 - CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2'X4' TILE AND ON CENTERLINE OF A QUARTER POINT ON 4' DIMENSION.
 - ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
 - CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.
 - PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT.
 - DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
 - THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.
 - WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.
 - WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.
 - COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
 - ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITERS LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING.
 - ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS INsofar AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.
 - NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.
 - ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND AND OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
 - ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN



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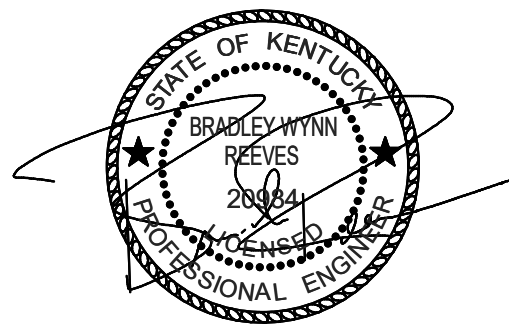
ELECTRICAL
-
DEMOLITION
- OVERALL
PLAN

SHEET NO.

E1.0



1 ELECTRICAL - DEMOLITION - OVERALL PLAN
SCALE: 1/8" = 1'-0"
0 2' 4' 8' 16' 24' 32'



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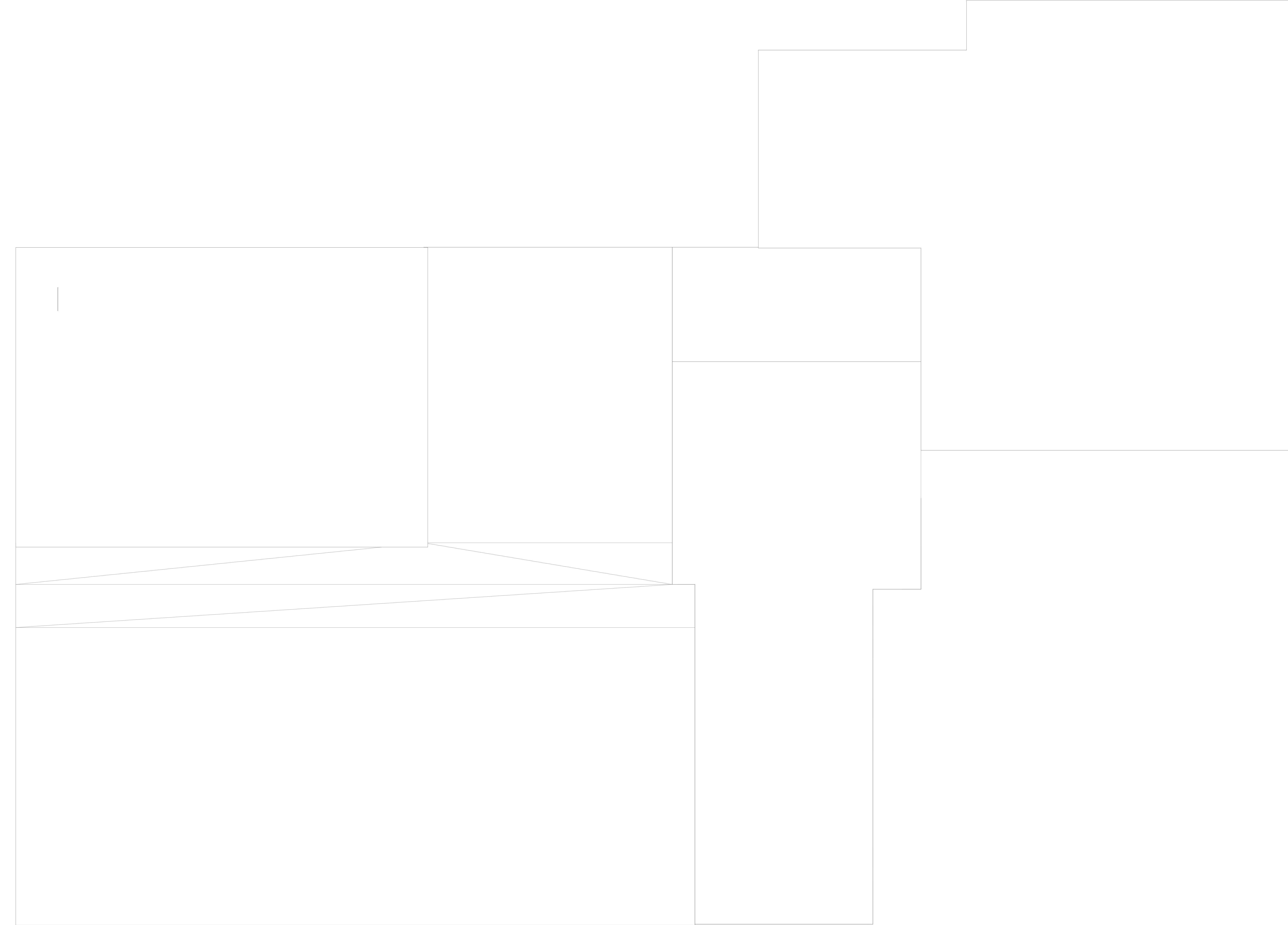
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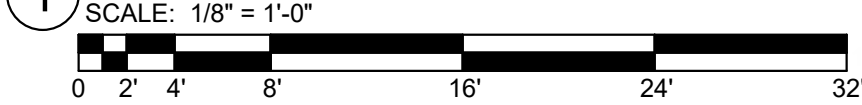
ELECTRICAL
-DEMOLITION
- ROOF PLAN

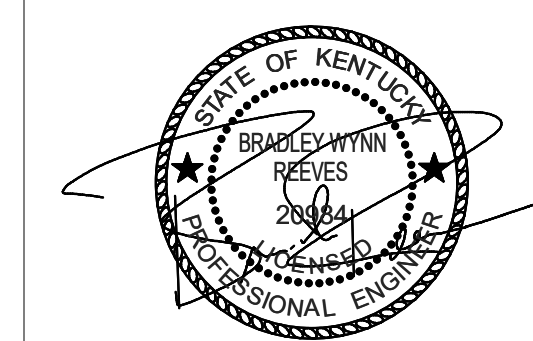
SHEET NO.

E1.1



1 ELECTRICAL - DEMOLITION - ROOF PLAN





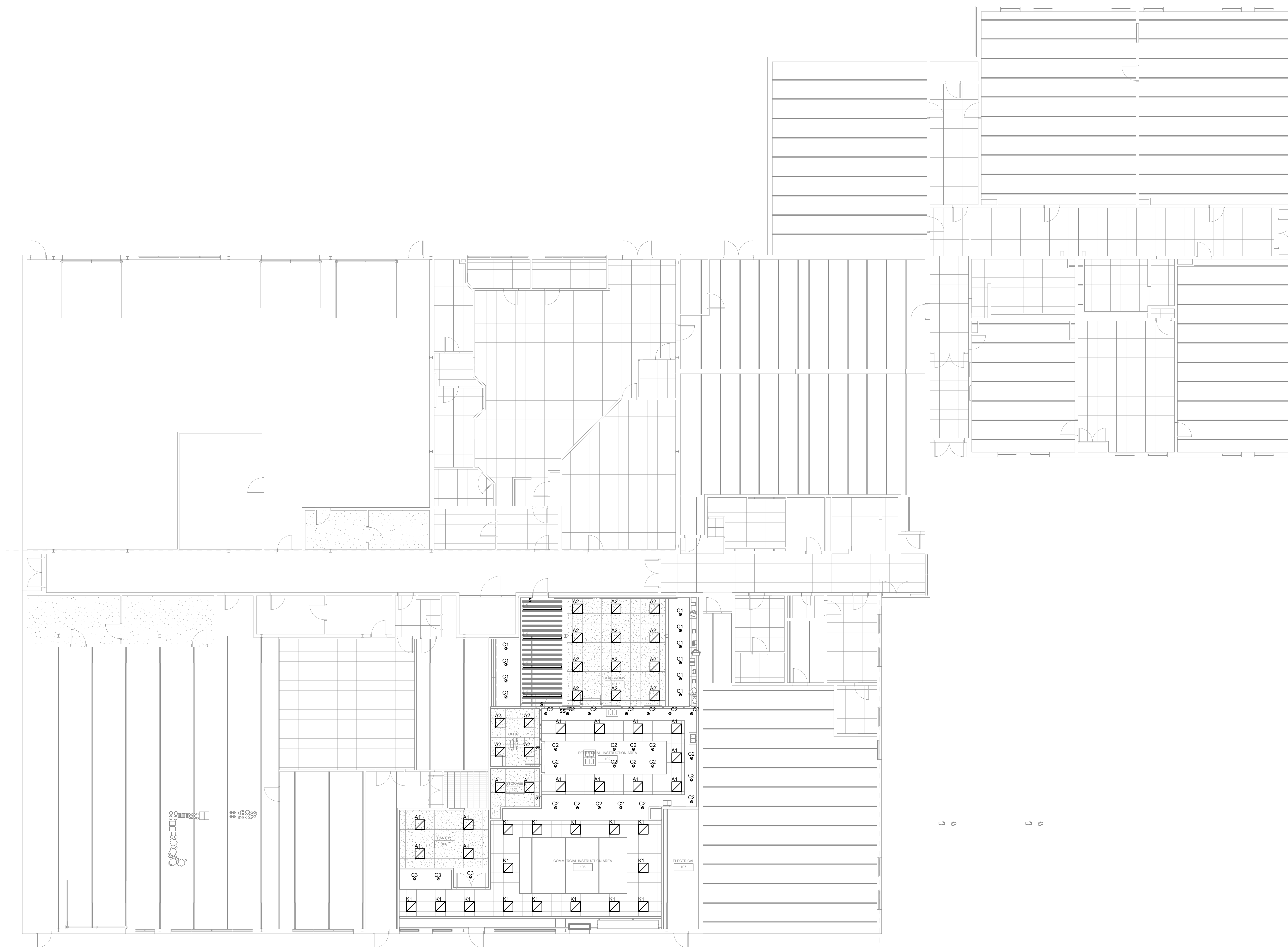
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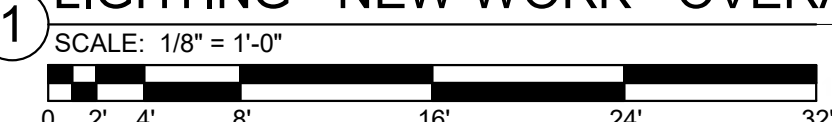
**LIGHTING -
NEW WORK -
OVERALL
PLAN**

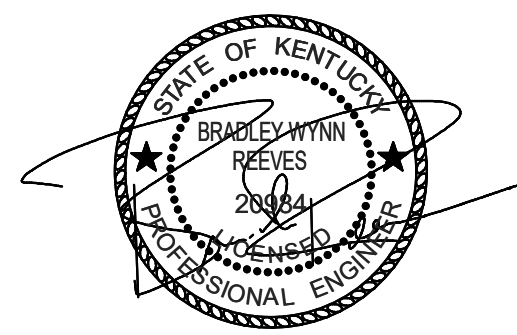
SHEET NO.

E2.0



1 LIGHTING - NEW WORK - OVERALL PLAN





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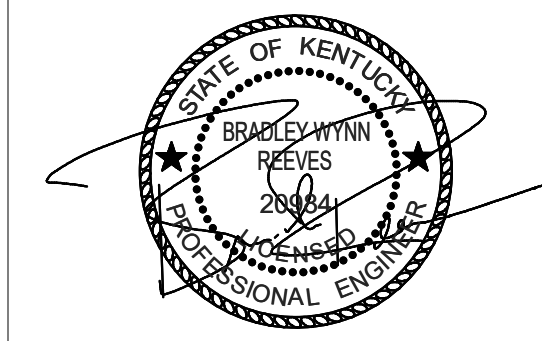
POWER -
NEW WORK -
OVERALL
PLAN

SHEET NO.

E3.0



1 POWER - NEW WORK - OVERALL PLAN
SCALE: 1/8" = 1'-0"
0 2' 4' 8' 16' 24' 32'



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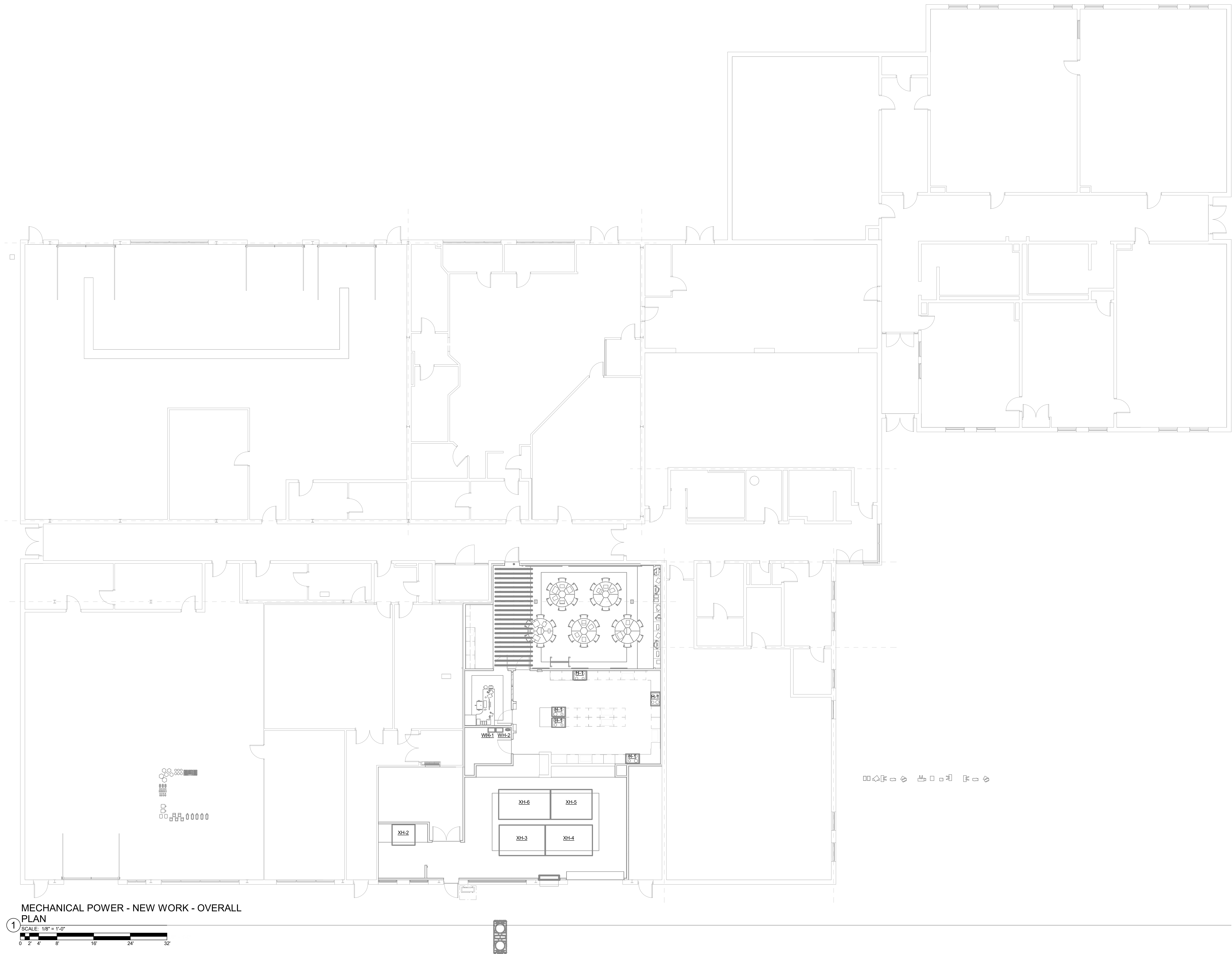
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MECHANICAL
POWER -
NEW WORK -
OVERALL
PLAN

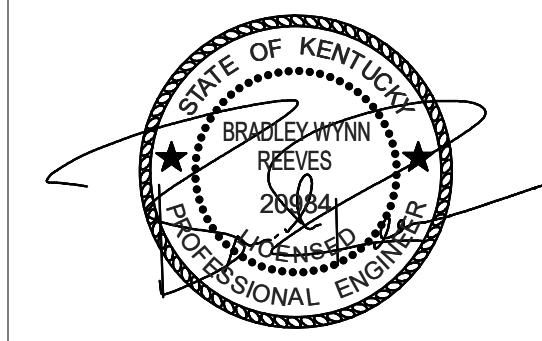
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E4.0



MECHANICAL POWER - NEW WORK - OVERALL
PLAN

1 SCALE: 1/8" = 1'-0"



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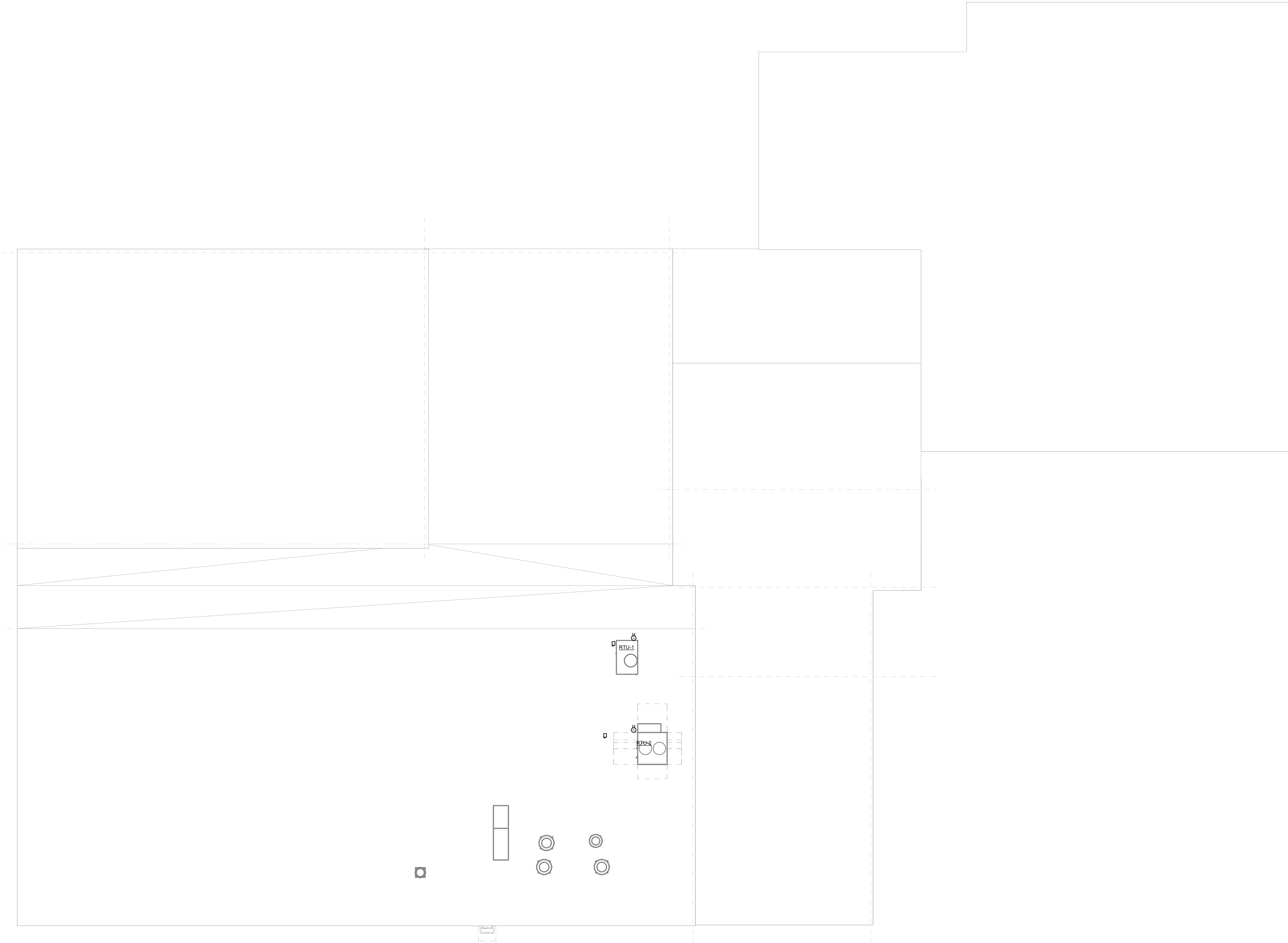
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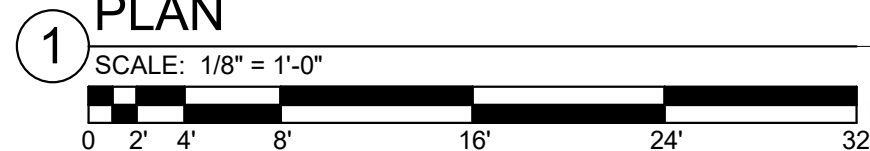
MECHANICAL
POWER -
NEW WORK -
ROOF PLAN

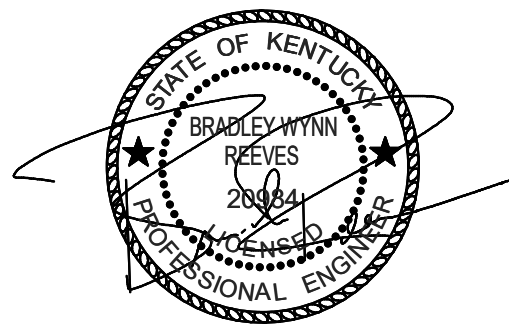
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MECHANICAL POWER - NEW WORK - ROOF
PLAN





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SYSTEMS -
NEW WORK -
OVERALL
PLAN

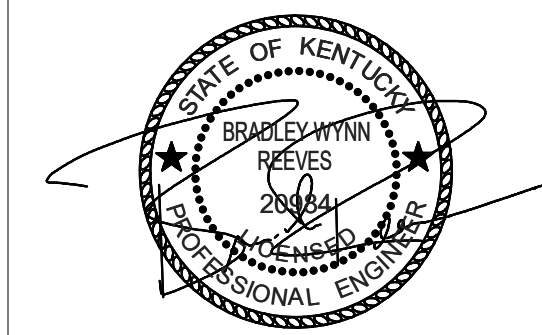
SHEET NO.

E5.0



1 SYSTEMS - NEW WORK - OVERALL PLAN
SCALE: 1/8" = 1'-0"





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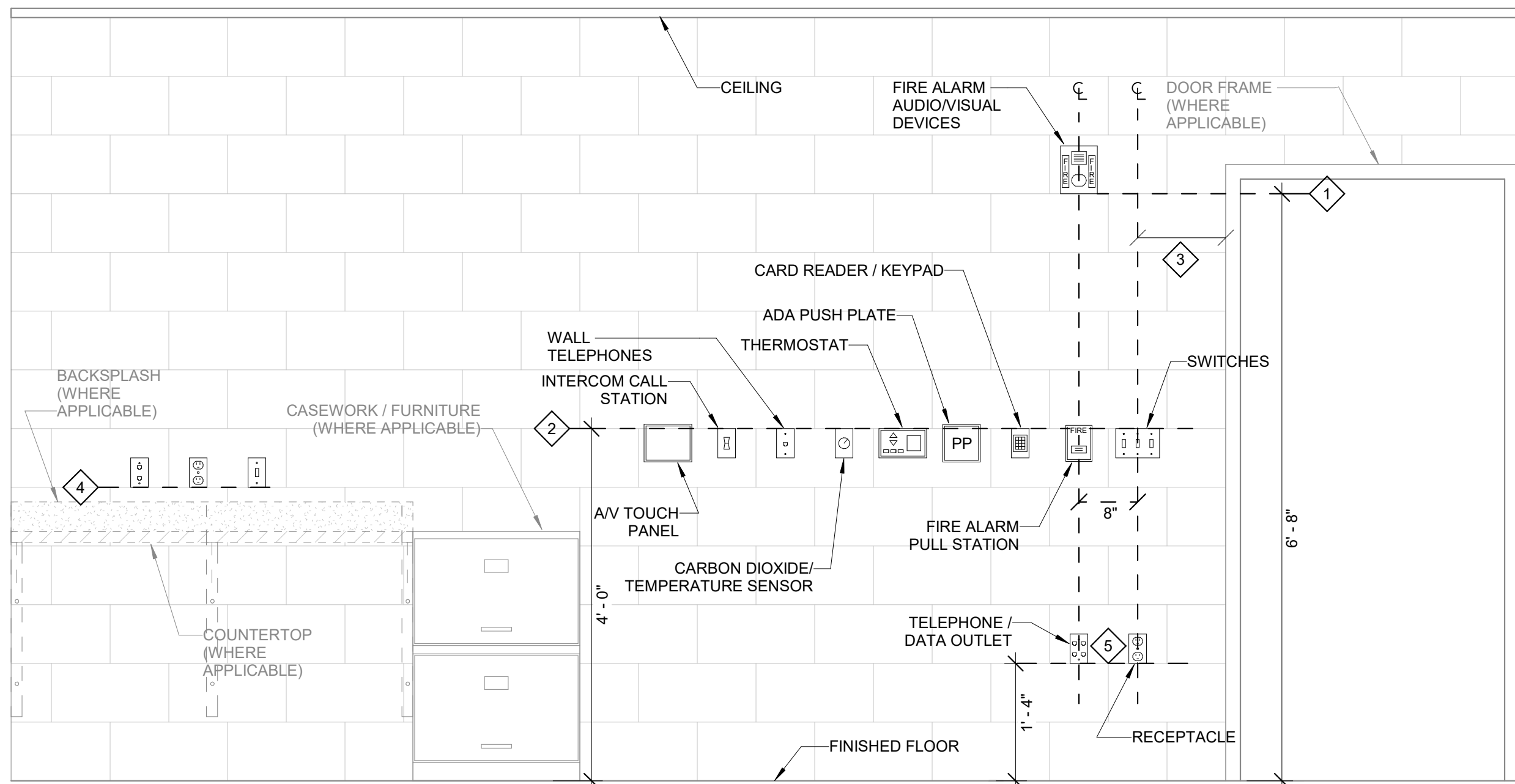
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ELECTRICAL
DETAILS

SHEET NO.

E6.0



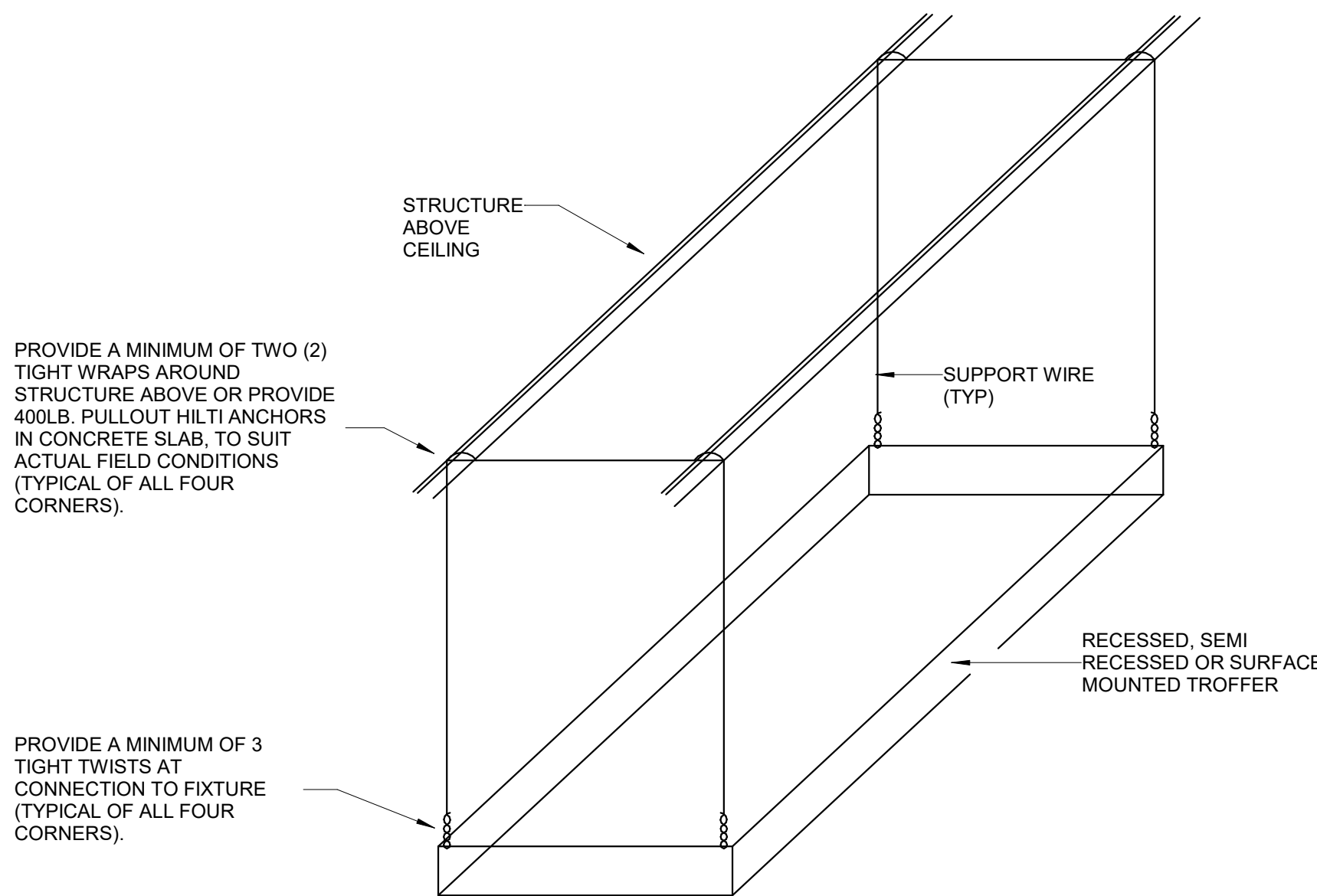
DEVICE MOUNTING DETAIL - GENERAL NOTES:

- THIS DETAIL IS INTENDED AS A GENERAL GUIDELINE. SPECIFIC ELEVATIONS SHOWN ON ARCHITECTURAL ELEVATIONS TAKE PRECEDENCE.
- WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN TO BE MOUNTED AT A SIMILAR HEIGHT, ALIGN HORIZONTALLY ALONG TOP OF DEVICE BACKBOX (AS SHOWN IN DETAIL AND DESCRIBED IN KEY NOTE #2).
- WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN MOUNTED AT DIFFERENT HEIGHTS, ALIGN VERTICALLY ALONG THE CENTERLINE OF THE DEVICE BACKBOX (AS SHOWN IN DETAIL).
- FOR ANY WALL OTHER THAN PAINTED GYPSUM BOARD OR CMU, DEVICE LOCATIONS MUST BE FIELD APPROVED BY ENGINEER OR ARCHITECT PRIOR TO INSTALLATION OF FINISHES.

DEVICE MOUNTING DETAIL - KEY NOTES:

- MOUNT VISUAL NOTIFICATION APPLIANCES SO THAT ENTIRE LENS IS BETWEEN 80" AND 96" AFF. IF CEILING IS TOO LOW FOR DEVICE TO BE MOUNTED ABOVE 80", MOUNT SO THAT THE LENS IS WITHIN 6" OF FINISHED CEILING.
- ALIGN BACKBOXES OF DEVICES AT THE MOUNTING HEIGHT INDICATED. MEASURE TO THE TOP OF THE BACKBOX FOR STANDARD OUTLET BOXES. NON-STANDARD BACKBOXES ARE TO BE INSTALLED SUCH THAT THE FINISHED DEVICES ARE ALIGNED ALONG THEIR RESPECTIVE CENTERLINES.
- MOUNTING HEIGHTS SHOWN ILLUSTRATE DESIGN INTENT AND ARE TO BE FOLLOWED UNLESS CONTRADICTED BY APPLICABLE CODE. WHERE DEVICES ARE SHOWN ADJACENT TO DOOR FRAMES ON PLANS INSTALL 12" FROM FRAME TO AVOID SLUSHED SECTIONS OR BRACING. SPECIFIC DEVICES ARE SHOWN IN RELATIVE ORDER FROM DOOR FRAME, WHERE INDICATED DEVICES ARE NOT PRESENT AT A PARTICULAR LOCATION, ADJUST LOCATIONS OF INSTALLED DEVICES CLOSER TO DOOR.
- THE CONTRACTOR IS TO COORDINATE ALL ROUGH-INS WITH ANY COUNTERTOPS/BACKSPASHES TO AVOID CONFLICT. ALIGN DEVICE BACKBOXES IN THE NEXT FULL BLOCK ABOVE THE BACKSPASH AS SHOWN. FOR NON-BLOCK WALLS ALIGN BOTTOM OF DEVICE BACKBOXES 4" ABOVE BACKSPASH. COORDINATE WORK WITH CASEWORK AND KITCHEN SHOP DRAWINGS. MAXIMUM ELEVATION IS TO BE 44" AFF PER ADAAG REQUIREMENTS. IF CONFLICT STILL ARISES CONTACT THE ENGINEER FOR DIRECTION ON HOW TO PROCEED.
- MAXIMUM SEPARATION FOR POWER AND DATA OUTLETS SERVING THE SAME WORKPLACE TO BE 16".

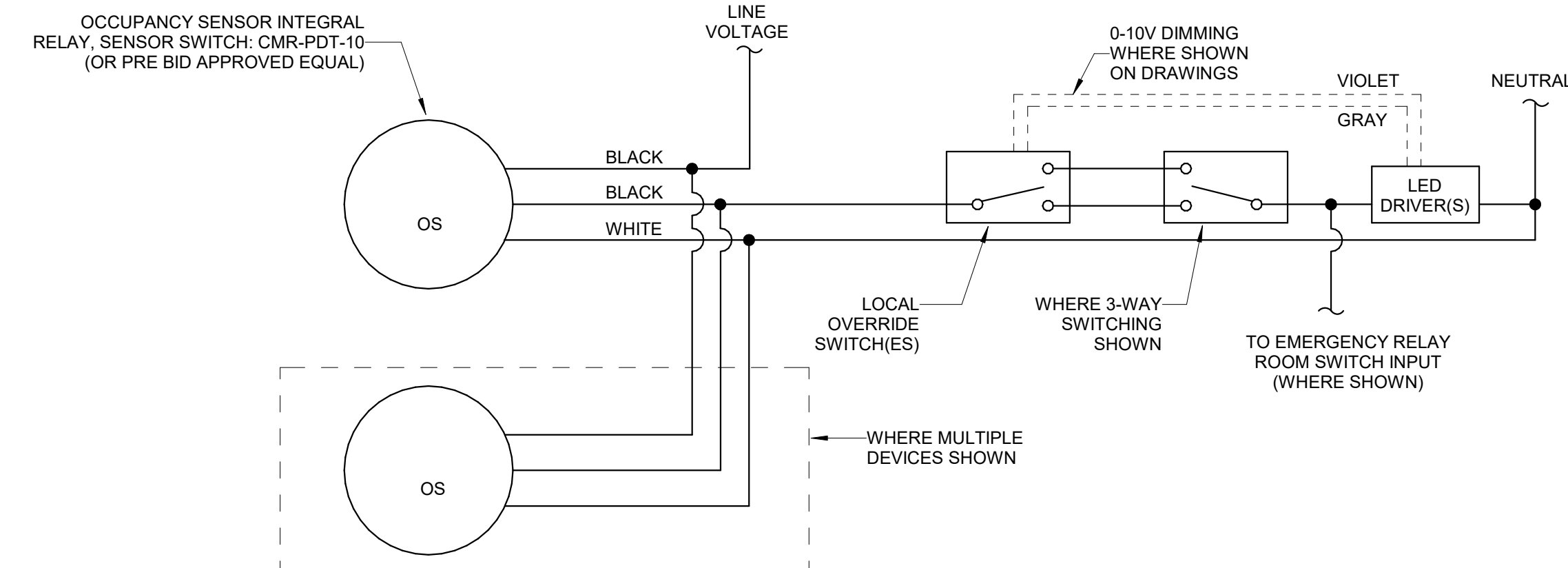
1 TYPICAL WALL DEVICE MOUNTING DETAIL
SCALE: NONE



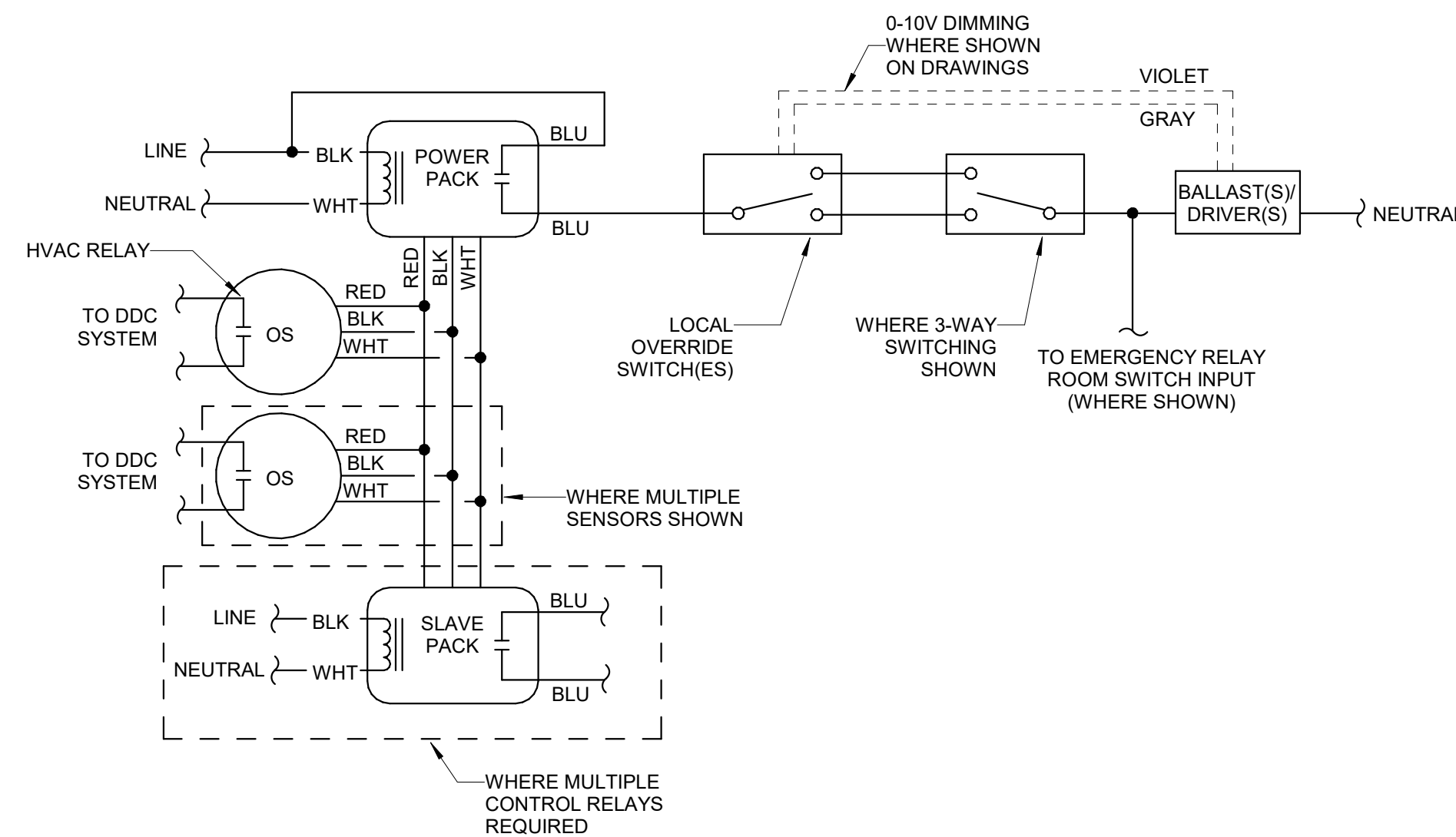
GENERAL TROFFER SUPPORT DETAIL NOTES:

- SUPPORT WIRES SHALL BE GALVANIZED REGULAR COATING, SOFT TEMPER, 0.1050 INCHES IN DIAMETER (12 GAGE).
- ALTERNATELY, CONTRACTOR MAY SUPPORT FIXTURES WITH SINGLE WIRE FROM ALL FOUR CORNERS OF FIXTURE PER SPECIFICATIONS WITH NUMBER OF TWISTS AT FIXTURE AND NUMBER OF WRAPS AROUND STRUCTURE INDICATED IN THIS DETAIL.

2 TROFFER SUPPORT DETAIL
SCALE: NONE



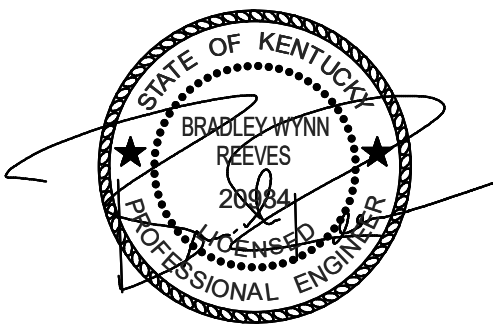
3 OCC SENSOR - LINE VOLTAGE
SCALE: NONE



NOTES:

- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE ONE POWER PACK PER CONTROL ZONE.
- ADJUST SENSOR LOCATION AND SENSITIVITY LEVELS TO MINIMIZE NUISANCE TRIPPING AND FALSE OFFS.
- VERIFY ALL WIRING REQUIREMENTS WITH MANUFACTURER OF SENSOR PRIOR TO ROUGH-IN.

4 OCC SENSOR - LOW VOLTAGE
SCALE: NONE



RIS CULINARY ARTS

RENOVATION

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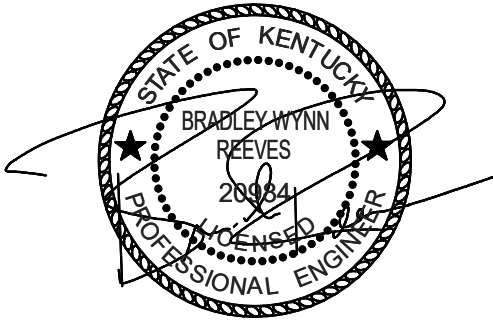
ELECTRICAL

DETAILS

SHEET NO.

E6.1

ELEC - LUMINAIRE SCHEDULE										
TYPE	DESCRIPTION	BASIS OF DESIGN	EQUALS	LAMPS / CCT	DRIVER	MINIMUM LUMENS	MOUNTING	MAXIMUM WATTAGE	VOLTAGE	REMARKS
A1	2' X 2' VOLUMETRIC TROFFER WITH HIGH EFFICIENCY DRIVER.	LITHONIA 2BLT2-33LHE-ADP-LP840	METALUX, COLUMBIA	LED / 4000K	NON-DIMMING	3336	RECESSED	25	120	
A2	2' X 2' VOLUMETRIC TROFFER WITH HIGH EFFICIENCY DRIVER.	LITHONIA 2BLT2-40LHE-ADP-LP840	METALUX, COLUMBIA	LED / 4000K	0-10V DIM TO 1%	4155	RECESSED	30	120	
C1	6" RECESSED CAN LIGHT FIXTURE	GOTHAM EVO6-40/05-AR-MD-LD	PRESCOLITE, HALO	LED / 4000K	0-10V DIM TO 1%	463	RECESSED	7	120	
C2	6" RECESSED CAN LIGHT FIXTURE	GOTHAM EVO6-40/02-AR-MD-LD	PRESCOLITE, HALO	LED / 4000K	0-10V DIM TO 1%	264	RECESSED	4	120	
C3	6" RECESSED CAN LIGHT FIXTURE, FOOD SERVICE	GOTHAM EVO6-40/10-DFF-SMO	PRESCOLITE, HALO	LED / 4000K	0-10V DIM TO 1%	870	RECESSED	10	120	
K1	2' X 2' RECESSED WET LOCATION TROFFER.	LITHONIA 2WRTL-F-L24-5000LM-AFL-MD-MVOLT-40K-80CRI	METALUX, COLUMBIA	LED / 4000K	0-10V DIM TO 1%	5081	RECESSED	41	120	
L1	4" X 8' PENDANT LINEAR FIXTURE	MARK S4PD-8FT-80CRI-40K-400LMF-CLL	METALUX, COLUMBIA	LED / 4000K	0-10V DIM TO 1%	400LMF	PENDANT	26	120	



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ELECTRICAL

SCHEDULES

SHEET NO.

E8.0