



SCIENCE CLASSROOM ALTERATIONS GATES COUNTY HIGH SCHOOL GATES COUNTY, NORTH CAROLINA



GENERAL

- G1.0 COVER SHEET
- G2.0 APPENDIX "B"

ARCHITECTURAL

- A1.1 SITE REFERENCE PLAN
- A1.2 DEMOLITION PLAN & NOTES
- A1.3 FLOOR PLAN
- A1.4 REFLECTED CEILING PLAN
- A2.0 DOOR DETAILS

PLUMBING

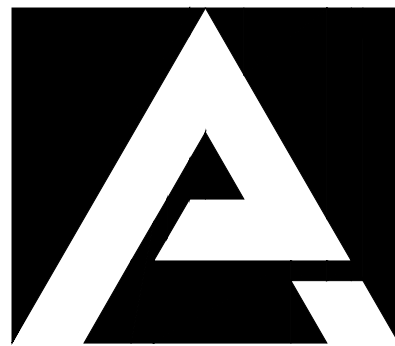
- P100 PLUMBING SCHEDULES & DETAILS
- P300 PLUMBING - WATER NEW WORK SCIENCE CLASSROOMS
- P400 PLUMBING - WASTE NEW WORK SCIENCE CLASSROOMS
- P500 PLUMBING - GAS NEW WORK SCIENCE CLASSROOMS

MECHANICAL

- M102 MECHANICAL SCHEDULES
- M200 MECHANICAL DEMOLITION SCIENCE CLASSROOMS
- M300 MECHANICAL NEW WORK SCIENCE CLASSROOMS
- M307 MECHANICAL ROOF PLAN SCIENCE BUILDING

ELECTRICAL

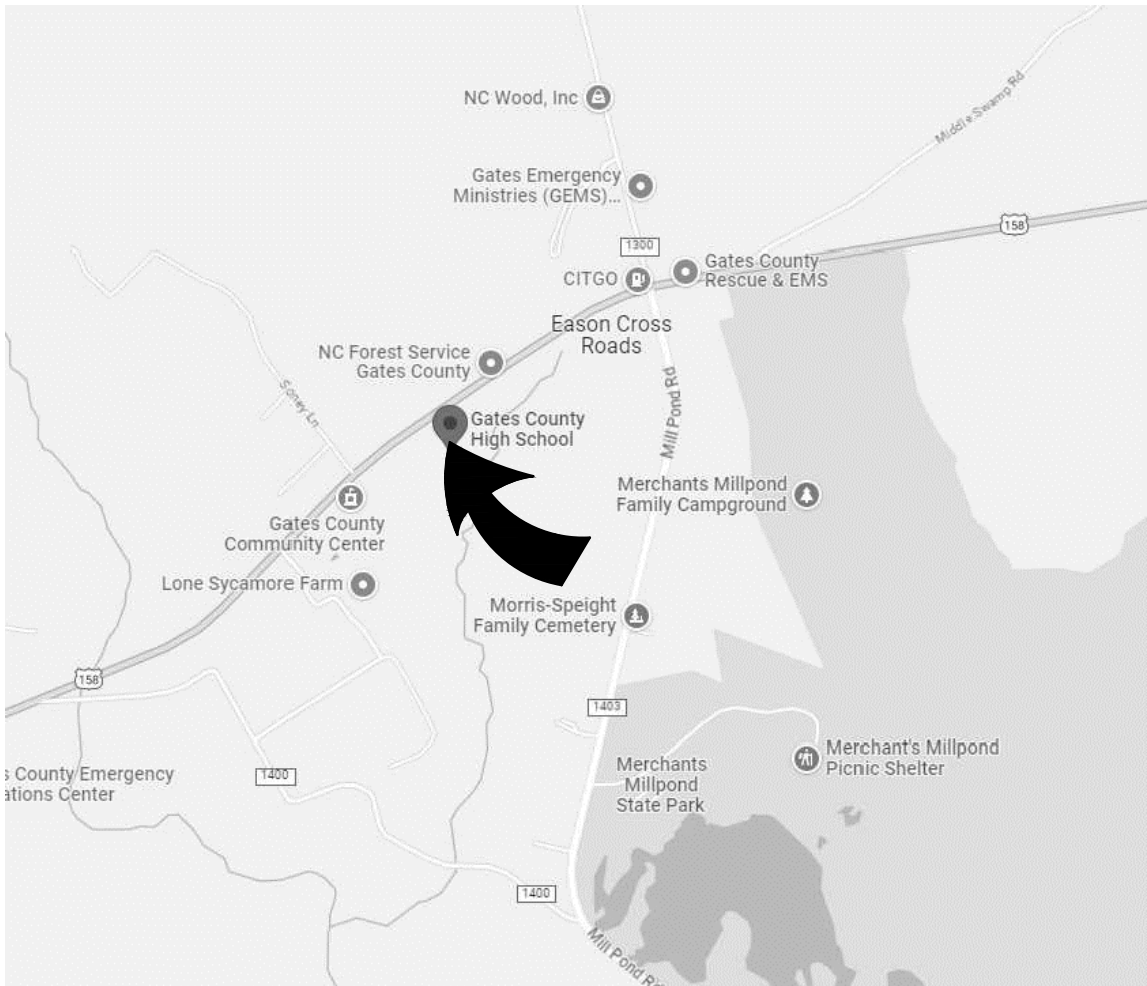
- E200 SCIENCE CLASSROOMS - DEMOLITION & NEW WORK LIGHTING
- E300 NEW WORK SCIENCE CLASSROOMS



PINNACLE ARCHITECTURE
PROFESSIONAL ASSOCIATION

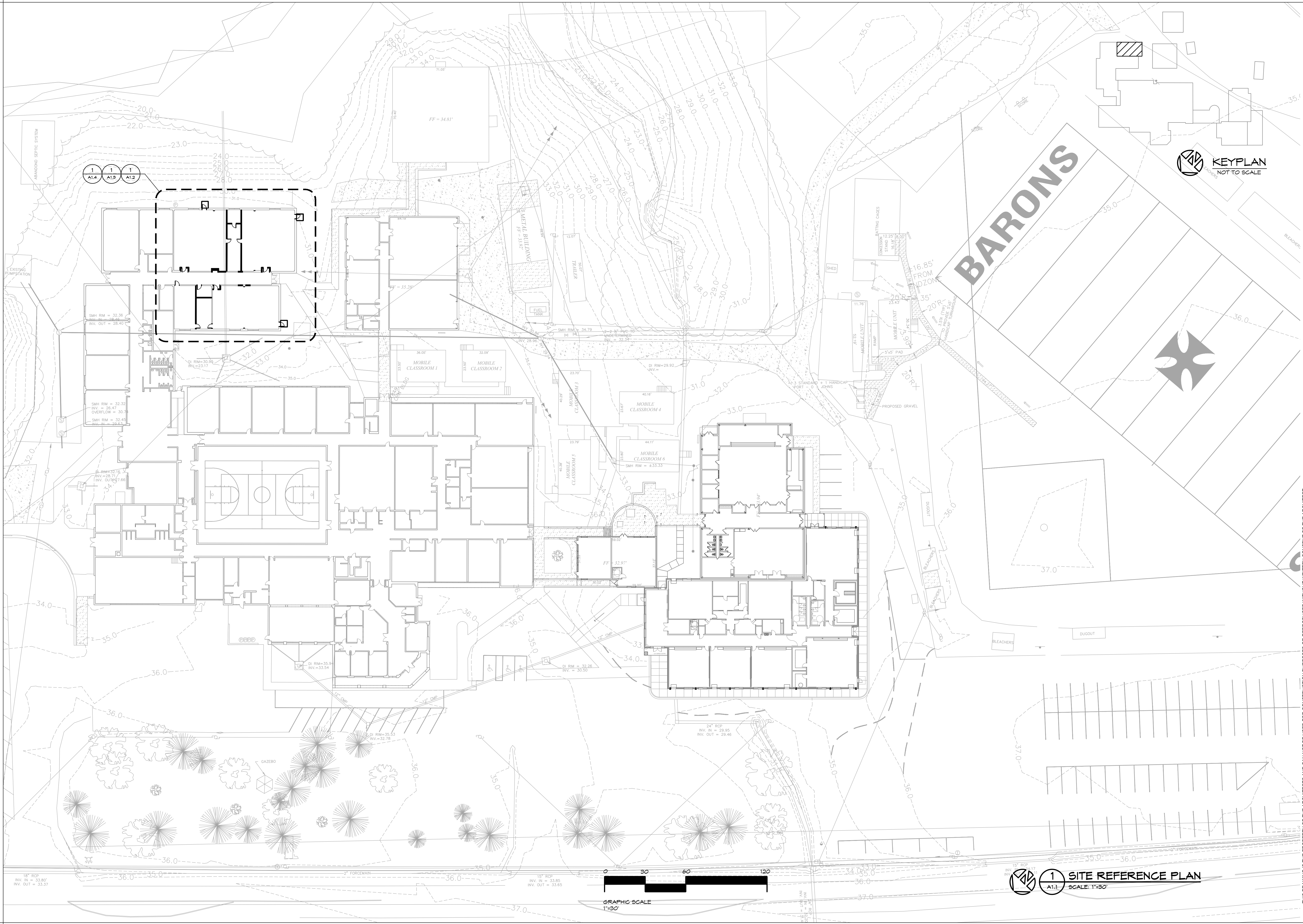
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SITE REFERENCE MAP

COVER
G1.0



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CONTRACTOR TO VERIFY ALL DIMENSIONS

REVISION SCHEDULE

NO.	DATE	REFERENCE
1		

ADDITIONS & RENOVATIONS
GATES COUNTY HIGH SCHOOL
GATESVILLE, NC

SITE REFERENCE PLAN

ISSUE DATE: 05.21.2025
DRAWN BY: JAE/VREB
CHECKED BY: JAE/VREB
PROJECT: 2256-10

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KEYPLAN
NOT TO SCALE

BARONS

TYPICAL SELECTIVE DEMOLITION NOTES:

- (RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE)
1. REMOVE AND LEGALLY DISPOSE OF ITEMS EXCEPT THOSE AS INDICATED FOR REUSE.
 2. ITEMS NOTED AS SALVAGE ARE TO REMAIN THE PROPERTY OF THE OWNER UNTIL RELEASED FOR DISPOSAL PER LINE ITEM #1.
 3. ITEMS NOTED FOR REMOVAL AND REINSTALLATION ARE TO BE CLEANED AND REPAIRED TO AS LIKE NEW CONDITION.
 4. PROTECT ALL ITEMS AND REMAINING CONSTRUCTION AGAINST DAMAGE.
 5. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS WILL COMPLY WITH ALL GOVERNING EPA REGULATIONS AT ALL TIMES.
 6. IF OWNER IS OCCUPYING PORTIONS OF THE EXISTING BUILDING ADJACENT TO SELECTIVE DEMOLITION AND NEW CONSTRUCTION ALL WORK WILL BE CARRIED OUT AS TO NOT DISRUPT THE OWNER'S OPERATIONS. THE G.C. WILL PROVIDE 12 HOURS NOTICE TO BOTH THE OWNER AND ARCHITECT WITH ANY ACTIVITIES AFFECTING OWNER OPERATION.
 7. RESTORE EXPOSED FINISHES OF PATCHED AREAS EXTENDING FINISH RESTORATION TO ADJOINING CONSTRUCTION IN A MANNER TO ELIMINATE EVIDENCE OF CUTTING AND PATCHING.
 8. PATCH AND REPAIR FLOOR AND WALL SURFACES TO PROVIDE A FLUSH AND EVEN SURFACE.
 9. USE ONLY MATERIALS WHEN INSTALLED THAT EQUAL OR SURPASS THE PERFORMANCE OF THOSE EXISTING.
 10. PRIOR TO SELECTIVE DEMOLITION THE G.C. WILL VERIFY THAT ALL EXISTING UTILITIES HAVE BEEN CAPPED OR DISCONTINUED AS INDICATED.
 11. G.C. TO PROVIDE AND MAINTAIN BRACINGS AND SHORING FOR STRUCTURAL SUPPORT TO SAFELY MAINTAIN STABILITY AND PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF ADJACENT REMAINING STRUCTURES.
 12. REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED FOR NEW CONSTRUCTION.
 13. SYSTEMATICALLY PROCEED WITH SELECTIVE DEMOLITION FROM HIGH TO LOW.
 14. CUT ALL NEW OPENING NEAT, PLUMB, SQUARE, AND TRUE TO REQUIRED DIMENSIONS.
 15. ALL DEMOLITION EQUIPMENT TO BE LOCATED SO AS NOT TO IMPOSE EXCESSIVE LOADS ON SUPPORTING FRAMING, WALL, OR FLOORS.
 16. REMOVE, DRAIN, COLLECT, PURGE, AND DISPOSE OF ALL DANGEROUS MATERIALS PRIOR TO SELECTIVE DEMOLITION.

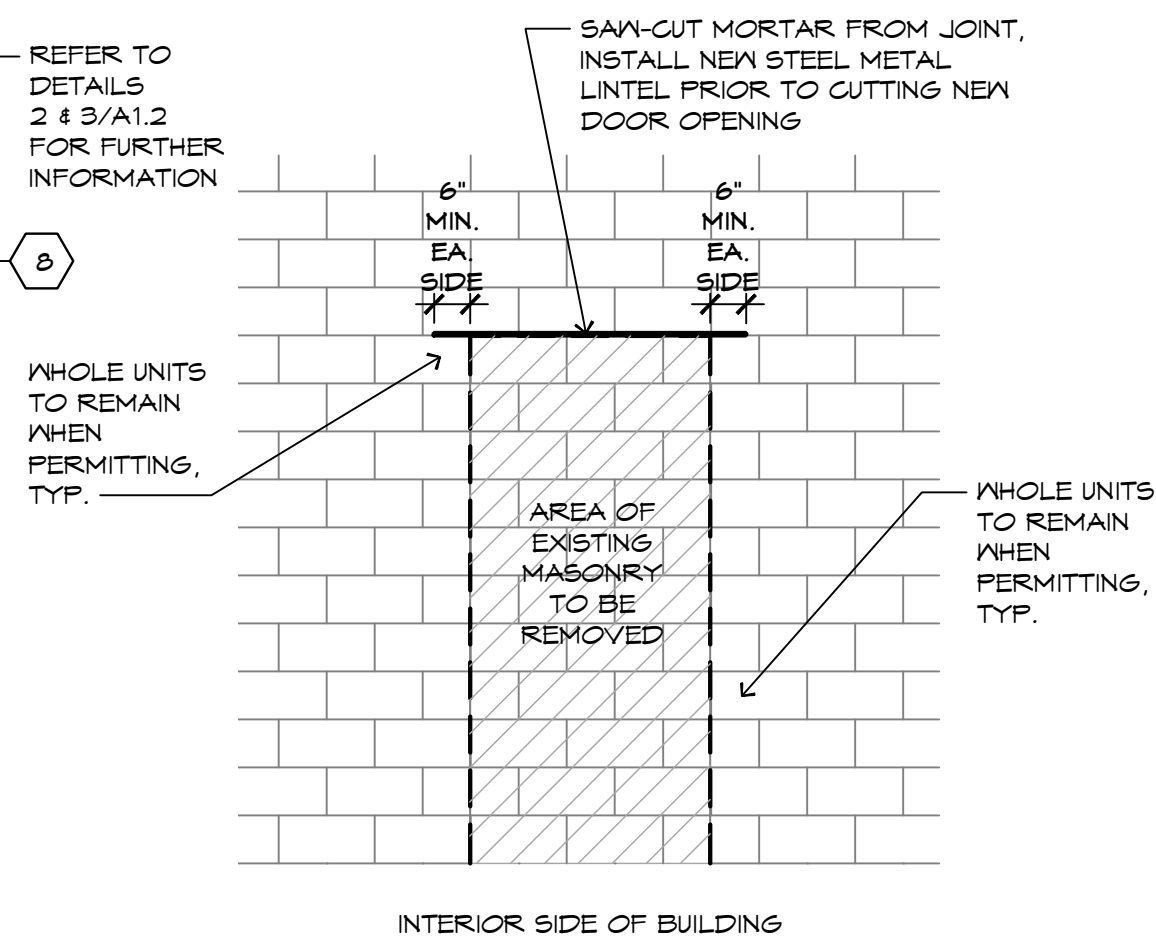
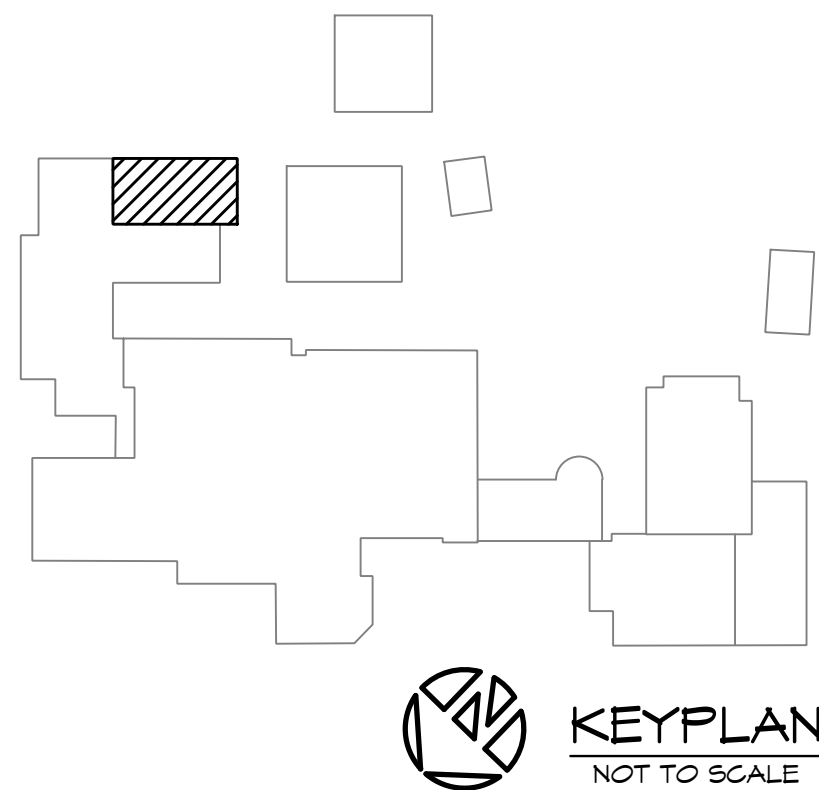
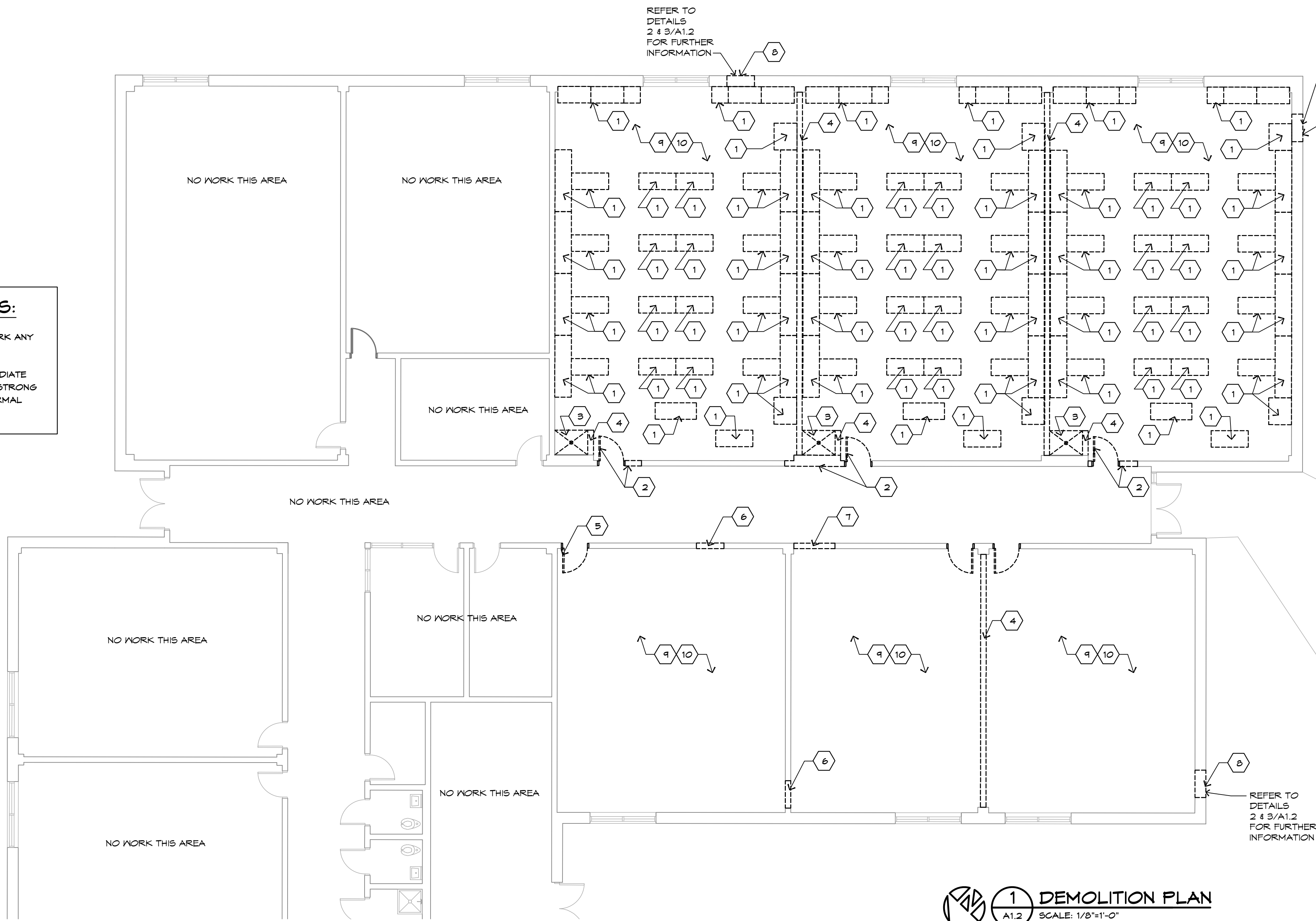
COMPREHENSIVE DEMOLITION NOTES:

1. DISCONNECT AND REMOVE, CAP OR TIE OFF ANY UTILITIES. MARK ANY REMAINING UTILITIES TO BE USED FOR FUTURE RECONNECTION.
2. GENERAL CONTRACTOR WILL TAKE CARE TO INSPECT THE IMMEDIATE EXISTING PROJECT AREA TO DETERMINE THAT IT IS SOLID AND STRONG AND IN GOOD CONDITION AND CAPABLE OF WITHSTANDING NORMAL FORCES ATTRIBUTED TO PARTIAL DEMOLITION.

PROJECT DEMOLITION NOTES:

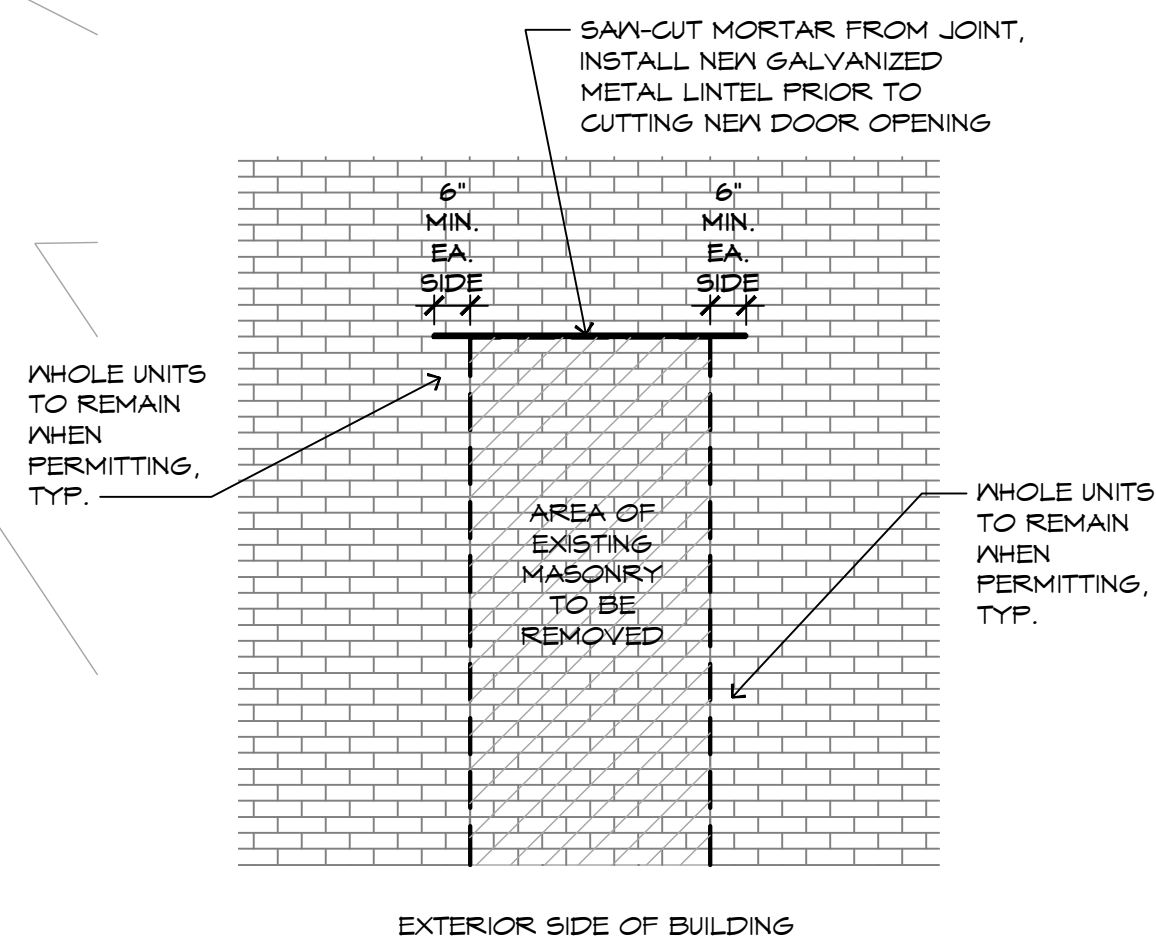
1. REMOVE EXISTING SCIENCE CASEWORK. CLEAN AND REPAIR REMAINING ADJACENT SURFACES TO LIKE NEW CONDITION IN PREPARATION FOR NEW CONSTRUCTION AND NEW FINISHES.
2. REMOVE EXISTING INTERIOR DOOR AND FRAME ASSEMBLY AND SAW-CUT AND REMOVE INDICATED AREA OF EXISTING WALL AS INDICATED. CLEAN AND REPAIR REMAINING EXISTING ADJACENT SURFACES TO LIKE NEW CONDITION IN PREPARATION FOR CONSTRUCTION OF NEW DOOR POCKET AND DOOR OPENING.
3. REMOVE EXISTING SHOWER FLOOR. CLEAN AND REPAIR THE REMAINING EXISTING ADJACENT SURFACES TO LIKE NEW IN PREPARATION FOR NEW CONSTRUCTION AND NEW FINISHES.
4. REMOVE PORTION OF EXISTING WALL ASSEMBLY AS INDICATED. CLEAN AND REPAIR REMAINING ADJACENT SURFACES TO LIKE NEW IN PREPARATION FOR NEW CONSTRUCTION AND NEW FINISHES.
5. REMOVE EXISTING INTERIOR DOOR AND FRAME ASSEMBLY. CLEAN AND REPAIR REMAINING ADJACENT SURFACES IN PREPARATION FOR INSTALLATION OF NEW DOOR AND FRAME ASSEMBLY.

6. SAW-CUT NEW OPENING IN EXISTING MASONRY WALL. CLEAN AND REPAIR REMAINING ADJACENT SURFACES AND FINISHES TO LIKE NEW IN PREPARATION FOR INSTALLATION OF NEW INTERIOR DOOR AND FRAME ASSEMBLY.
7. SAW-CUT AND REMOVE INDICATED PORTION OF EXISTING WALL. CLEAN AND REPAIR REMAINING ADJACENT SURFACES IN PREPARATION FOR CONSTRUCTION OF NEW DOOR POCKET.
8. SAW-CUT NEW OPENING IN EXISTING MASONRY WALL. CLEAN AND REPAIR REMAINING ADJACENT SURFACES AND FINISHES TO LIKE NEW IN PREPARATION FOR INSTALLATION OF NEW EXTERIOR DOOR AND FRAME ASSEMBLY.
9. REMOVE EXISTING CEILINGS IN AREAS INDICATED. REPAIR REMAINING ADJACENT WALLS TO LIKE NEW CONDITION IN PREPARATIONS FOR INSTALLATION OF NEW CEILING ASSEMBLIES.
10. REMOVE EXISTING FLOOR FINISHES IN AREAS INDICATED. CLEAN AND REPAIR REMAINING SUB FLOORS IN PREPARATION OF INSTALLATION OF NEW FLOOR FINISHES.



2 DEMOLITION DETAIL A1.2 SCALE: NTS

- NOTES:
1. REFER TO SHEET A2.0 FOR FURTHER INFORMATION
 2. THE G.C. WILL BE RESPONSIBLE TO REPLACE IN LOOSE FILL INSULATION LOST WHEN OPENING THE CAVITY.



3 DEMOLITION DETAIL A1.2 SCALE: NTS

- NOTES:
1. REFER TO SHEET A2.0 FOR FURTHER INFORMATION
 2. THE G.C. WILL BE RESPONSIBLE TO REPLACE IN LOOSE FILL INSULATION LOST WHEN OPENING THE CAVITY.

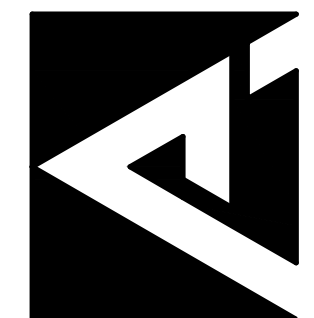
1 DEMOLITION PLAN A1.2 SCALE: 1/8"=1'-0"

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CONTRACTOR TO VERIFY ALL DIMENSIONS

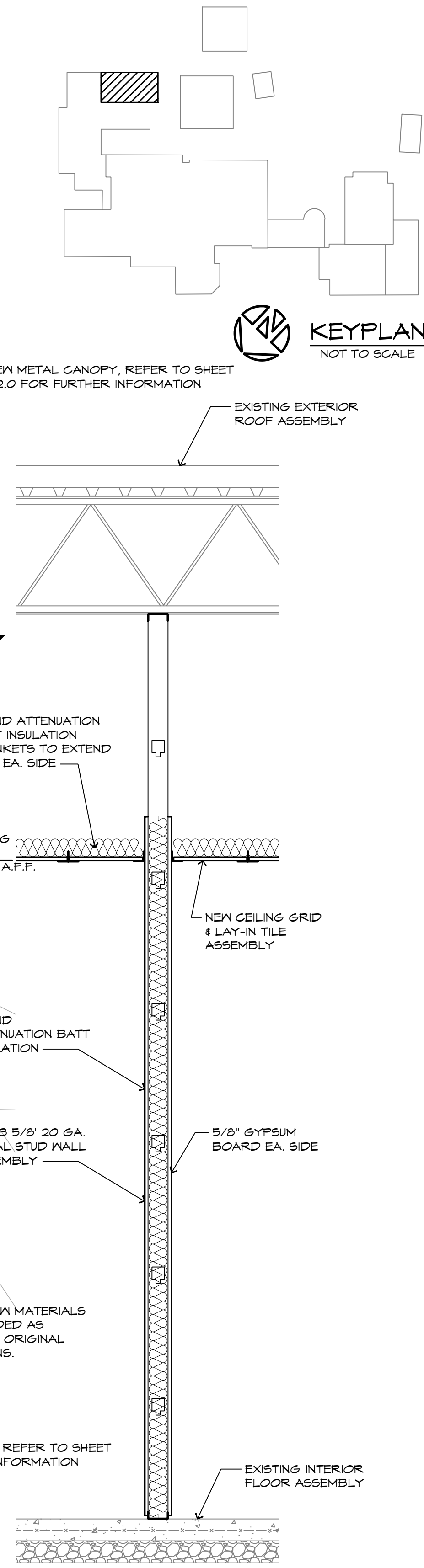
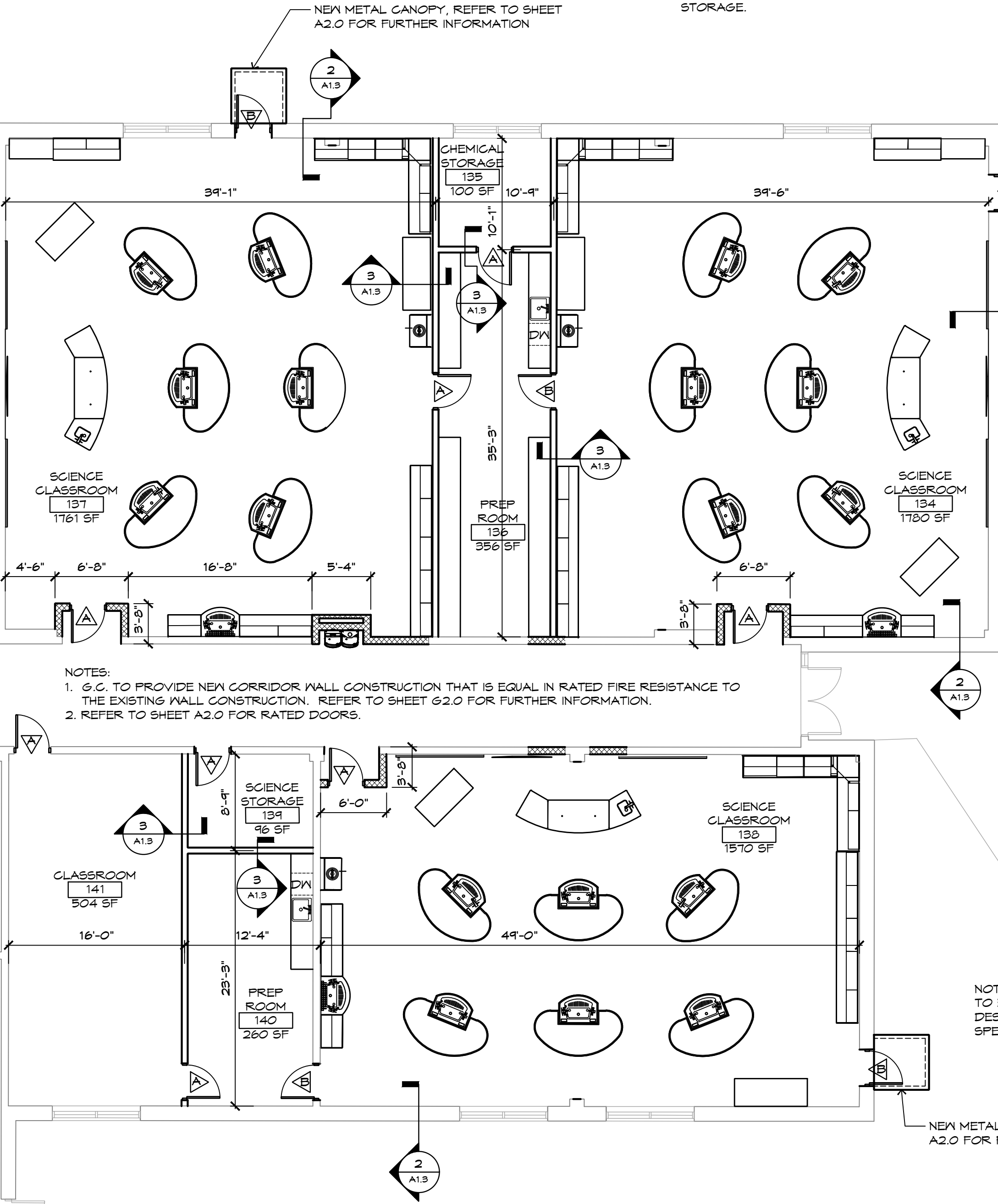
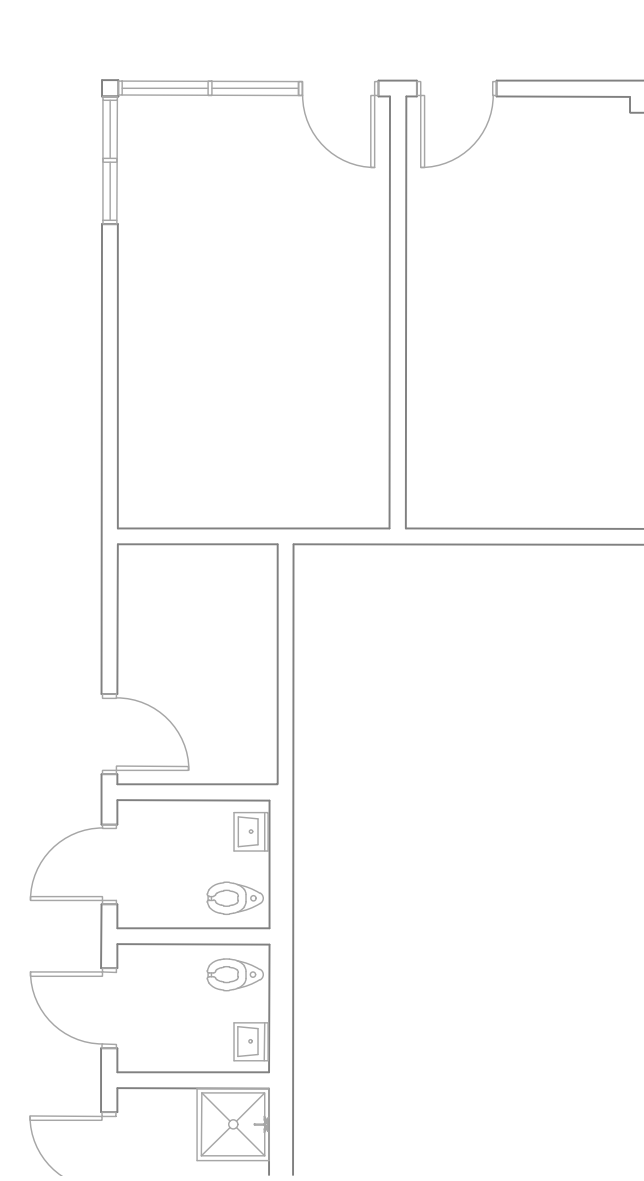
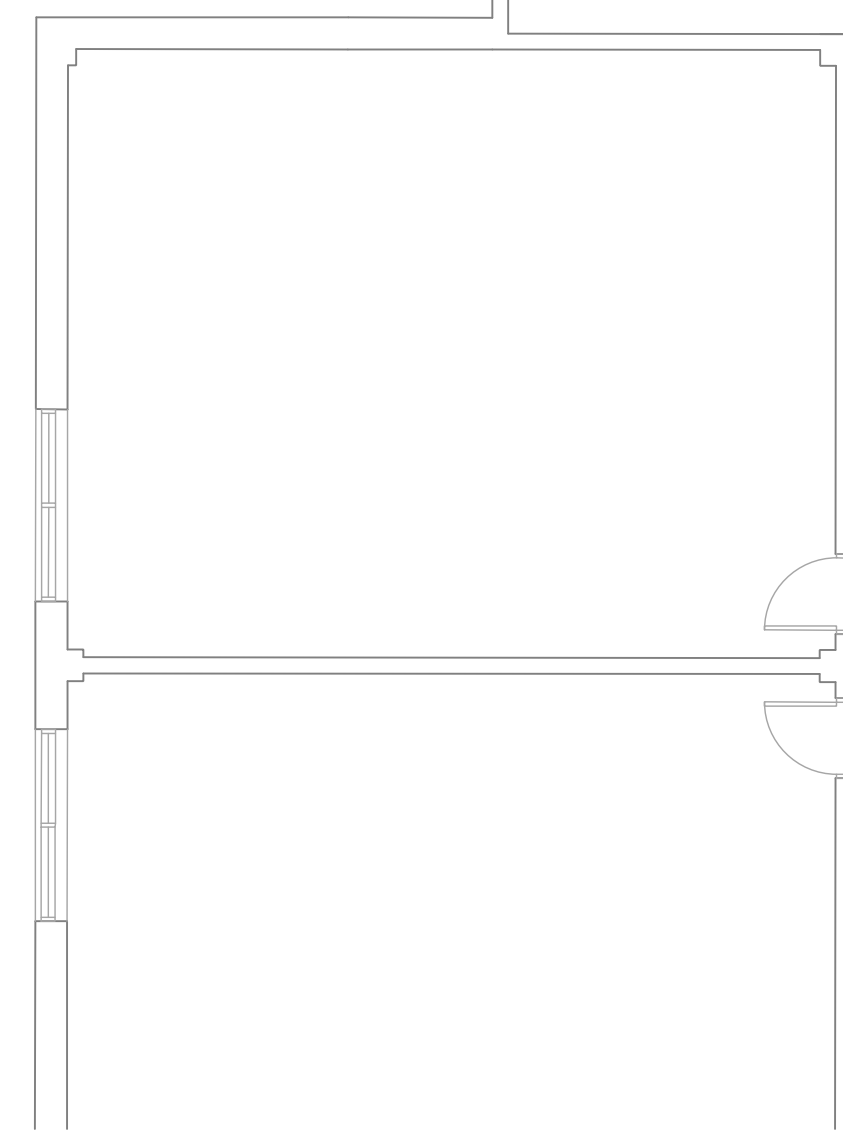
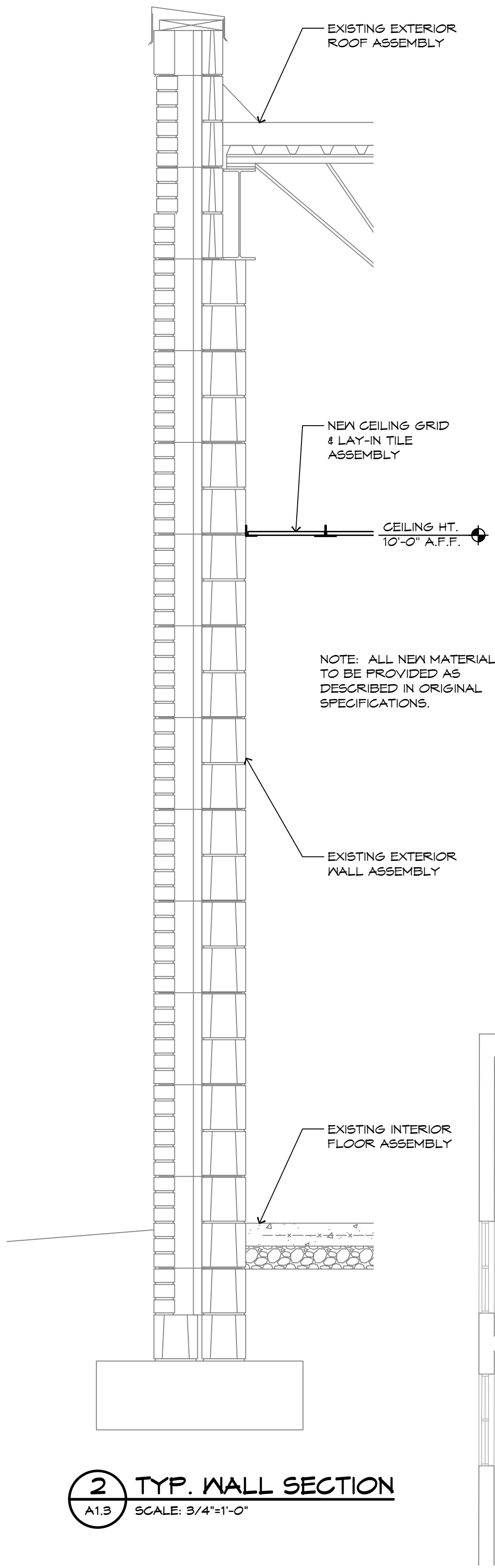
ADDITIONS & RENOVATIONS
GATES COUNTY HIGH SCHOOL
GATESVILLE, NC
DEMOLITION PLAN
REVISED SCIENCE CLASSROOMS

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ISSUE DATE: 05.27.2025
DRAWN BY: JAE
CHECKED BY: JAE
PROJECT: 2256-10

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Δ	DATE	REFERENCE



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REVISION SCHEDULE	
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ADDITIONS & RENOVATIONS
GATES COUNTY HIGH SCHOOL
GATESVILLE, NC

PARTIAL FLOOR PLAN
REVISED SCIENCE CLASSROOMS

ISSUE DATE: 05.27.2025
DRAWN BY: JAE/VREB
CHECKED BY: JAE/VREB
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CONTRACTOR TO VERIFY ALL DIMENSIONS

TYPICAL CEILING NOTES:

BASIC CONNECTIONS, PERIMETER AND BRACING

- 60 LB. MINIMUM INTERSECTION STRENGTH LIMITS @MT/CT.
- VERTICAL HANGER WIRE 12 GA. @ 4'-0" O.C.
- INTERMEDIATE OR HEAVY DUTY MAIN TEES.
- 1 IN 6 MAXIMUM PLUMB OF VERTICAL HANGER WIRES PER ASTM C635.
- PERIMETER VERTICAL HANGER WIRES NOT MORE THAN 8" FROM WALL UNLESS MOLDING IS LESS THAN 7/8".
- 3/8" MINIMUM GRID END/WALL CLEARANCE.
- MINIMUM 7/8" PERIMETER CLOSURE MOLDING WIDTH UNLESS USING PERIMETER WIRES.
- GRID CONNECTION TO PERIMETER ATTACHED ON TWO WALLS NOT PERMITTED.
- PERIMETER TEE ENDS REQUIRED TO BE TIED TOGETHER.
- PARTITION ATTACHMENT ALLOWED ONLY IF CEILING IS CAPABLE OF MOVING Laterally.

LIGHTING FIXTURE ATTACHMENT

- LIGHT FIXTURE (ALL TYPES) MECHANICALLY ATTACHED TO GRID NEG 410-16 (TWO PER FIXTURE UNLESS INDEPENDENTLY SUPPORTED).
- PENDENT HUNG FIXTURES DIRECTLY SUPPORTED FROM STRUCTURE WITH 9 GA. WIRE (OR APPROVED ALTERNATE).
- RIGID LAY-IN OR CAN LIGHT FIXTURES:
 - < 10 LBS. - ONE WIRE TO STRUCTURE (MAY BE SLACK).
 - 10-56 LBS. - TWO WIRES FROM HOUSING TO STRUCTURE (MAY BE SLACK).
 - > 56 LBS. - SUPPORTED DIRECTLY TO STRUCTURE BY APPROVED ALTERNATE.
 - < 20 LBS. - POSITIVELY ATTACHED TO GRID.
 - 20-56 LBS. - POSITIVELY ATTACHED TO GRID AND TWO WIRES TO STRUCTURE (MAY BE SLACK).
 - 56 LBS. - DIRECTLY SUPPORTED TO STRUCTURE.

SERVICE APPLICATIONS

- LESS THAN 20 LBS. POSITIVELY ATTACHED TO GRID.
- 20 TO 56 LBS. POSITIVELY ATTACHED TO GRID AND TWO WIRES TO STRUCTURE (CAN BE SLACK).
- MORE THAN 56 LBS. MUST BE DIRECTLY SUPPORTED TO STRUCTURE.
- MINIMUM 3/8" ON ALL SIDES PERTAINING TO SPRINKLER HEADS AND OTHER PENETRATION CLEARANCES.

NOTES:

- REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR EXACT LIGHTING AND DIFFUSER LOCATIONS.
- CEILING HEIGHTS ARE GIVEN ACCORDING TO THE FINISHED FLOOR ELEVATION DIRECTLY BELOW.
- POSITION AND LAYOUT CEILING GRIDS SO THAT THERE ARE NO PERIMETER LAY-IN CEILING TILE PIECES LESS THAN 8" IN WIDTH. TYPICAL.

REFLECTED CEILING PLAN SYMBOLS

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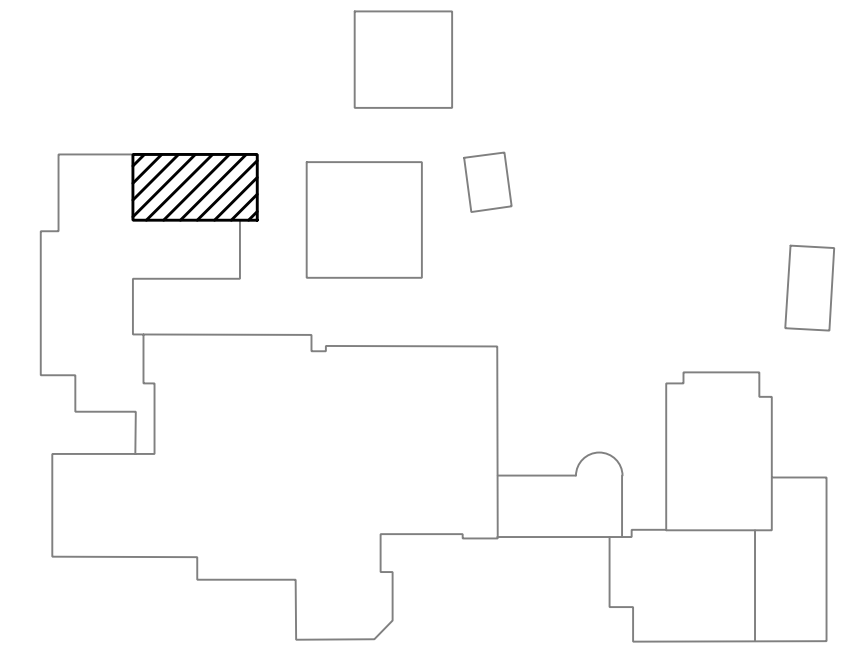
2 TYP. SYMBOLS
A1.4 SCALE: NTS

CEILING LEGEND

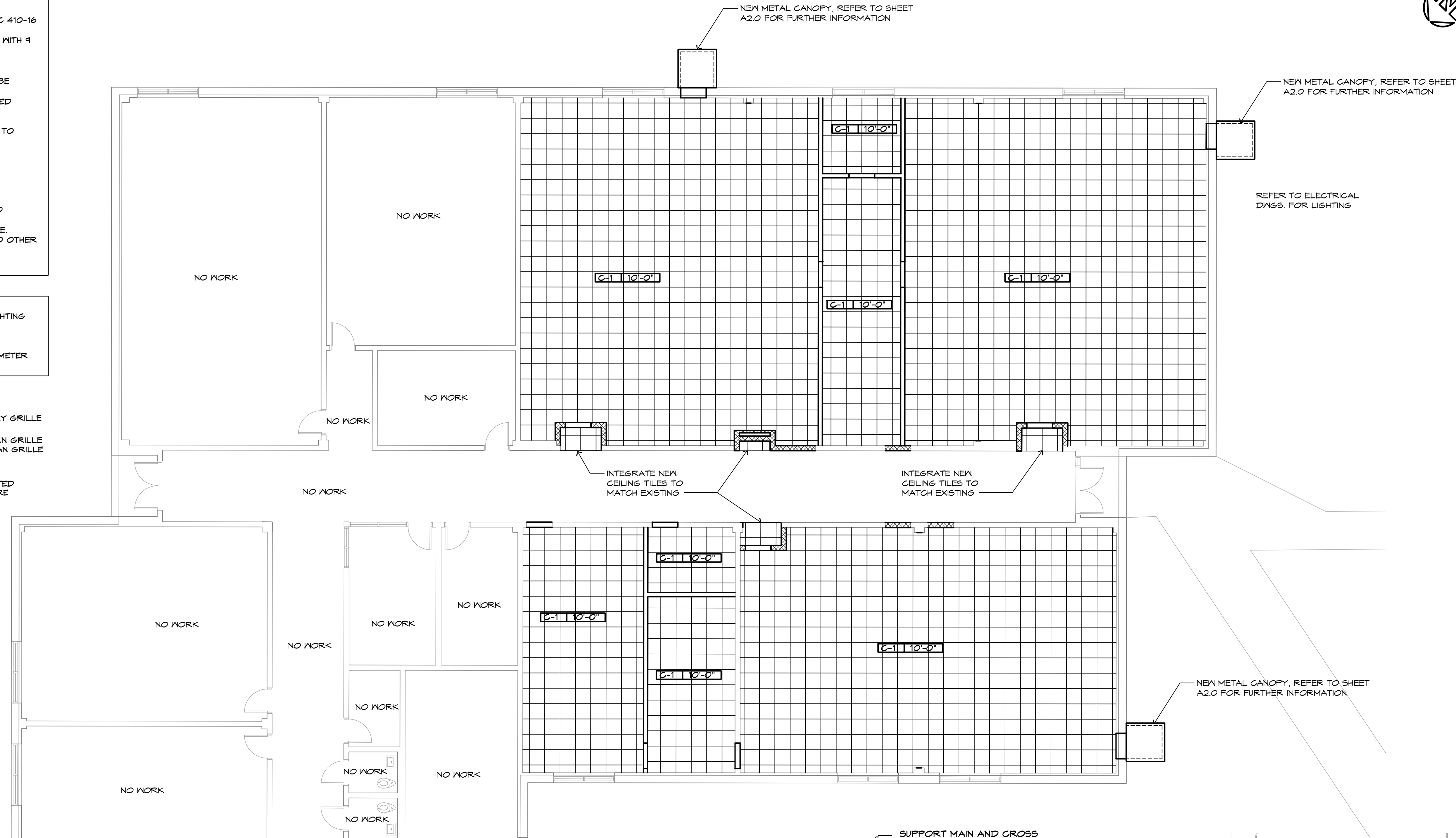
C-1	24 X 24 X 5/8 LAY-IN PANELS (ARMSTRONG FINE FISSURE/HUMIGUARD)
C-2	PAINTED 5/8" TYPE "X" GYPSUM BOARD CEILING ON METAL STUDS
C-3	OPEN TO STRUCTURE ABOVE
C-4	EXTERIOR PAINTED GYPSUM BOARD SOFFIT

SUSPENSION SYSTEM

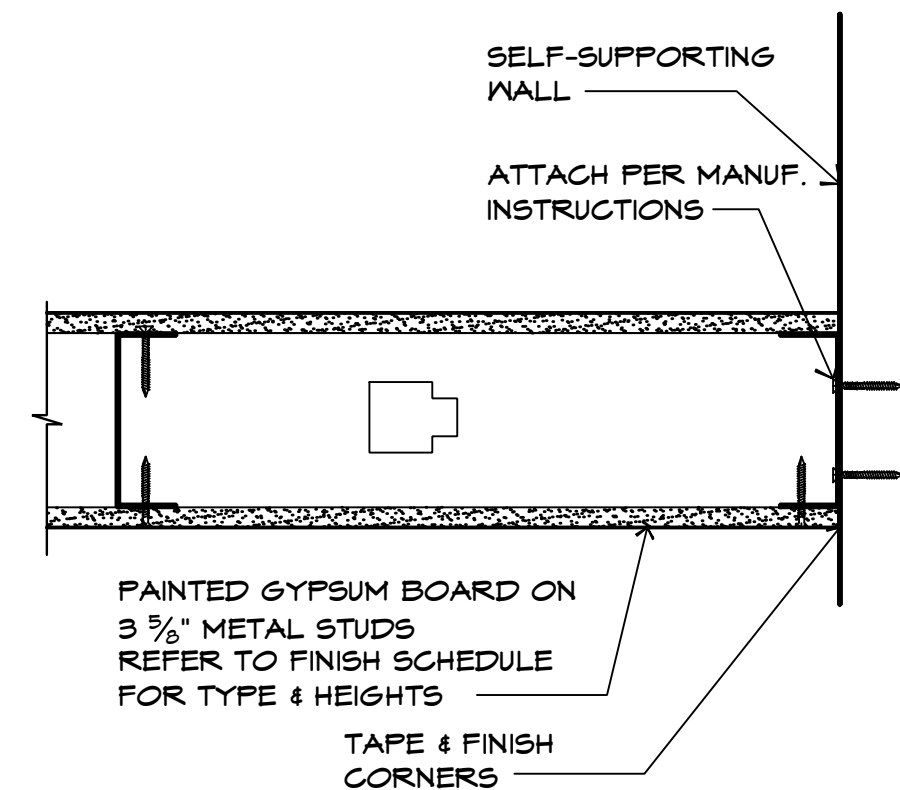
S-1	STANDARD 15/16 EXPOSED TEE SYSTEM
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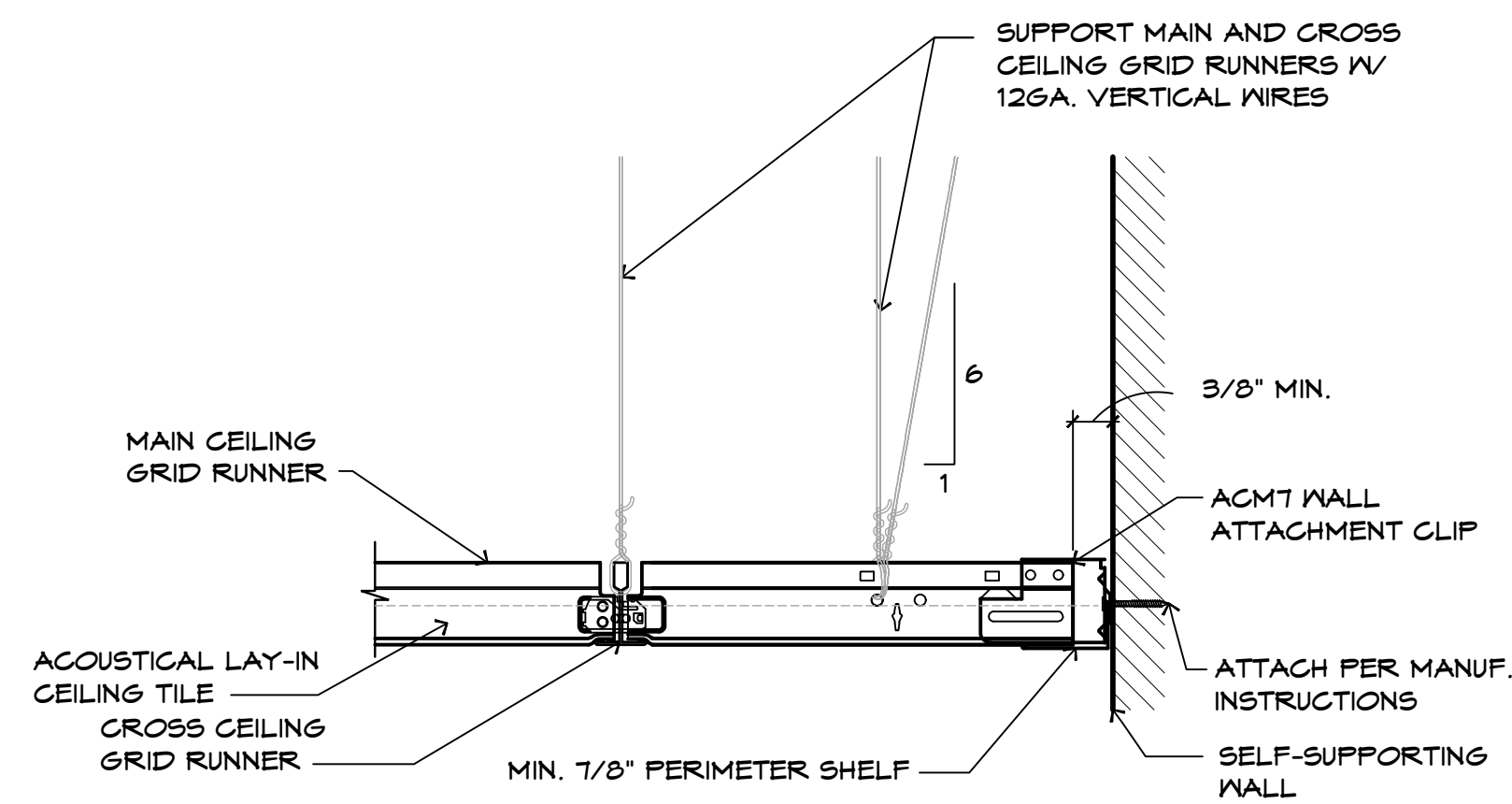
KEYPLAN
NOT TO SCALE



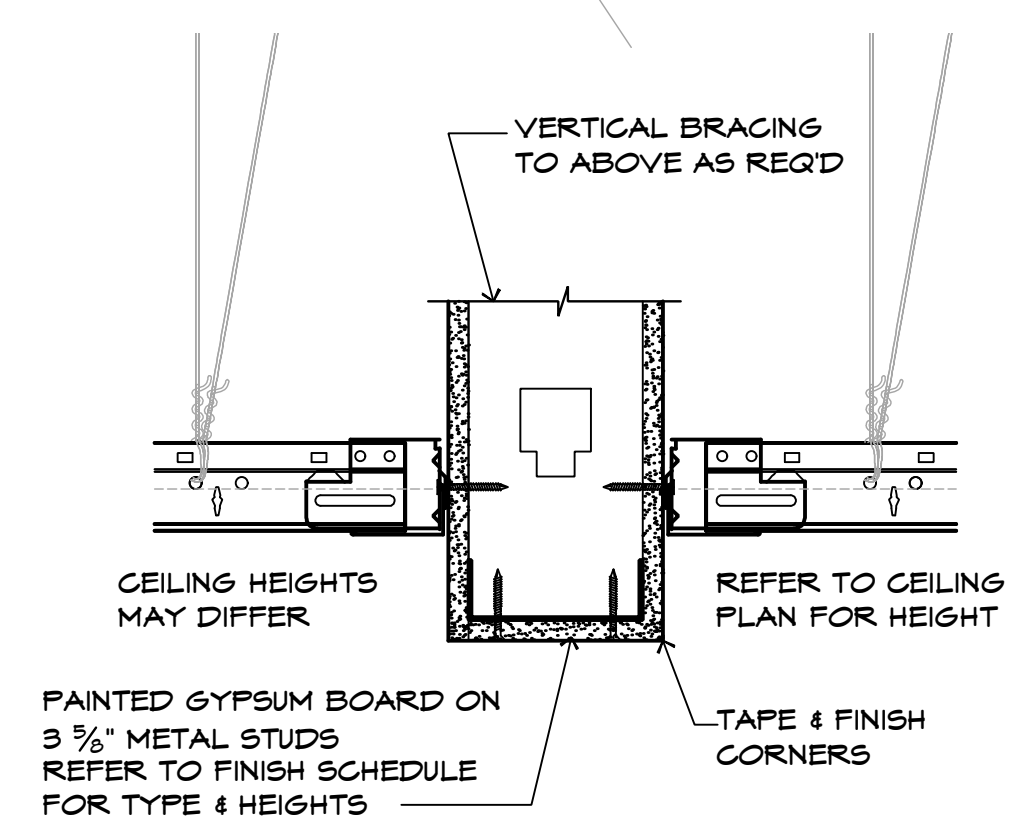
1 PARTIAL REFLECTED CEILING PLAN
A1.4 SCALE: 1/8"=1'-0"



5 TYP. CEILING DETAIL
A1.4 SCALE: NOT TO SCALE



4 TYP. CEILING DETAIL
A1.4 SCALE: NOT TO SCALE



3 TYP. CEILING DETAIL
A1.4 SCALE: NOT TO SCALE

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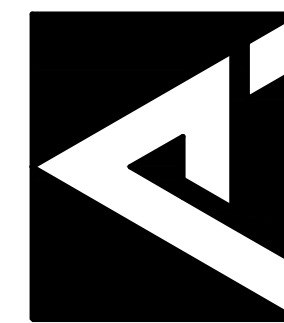
CONTRACTOR TO VERIFY ALL DIMENSIONS

ADDITIONS & RENOVATIONS
GATES COUNTY HIGH SCHOOL
GATESVILLE, NC
PARTIAL REFLECTED CEILING PLAN
EXISTING SCIENCE CLASSROOMS

REVISION	SCHEDULE
DATE	REFERENCE

A1.4

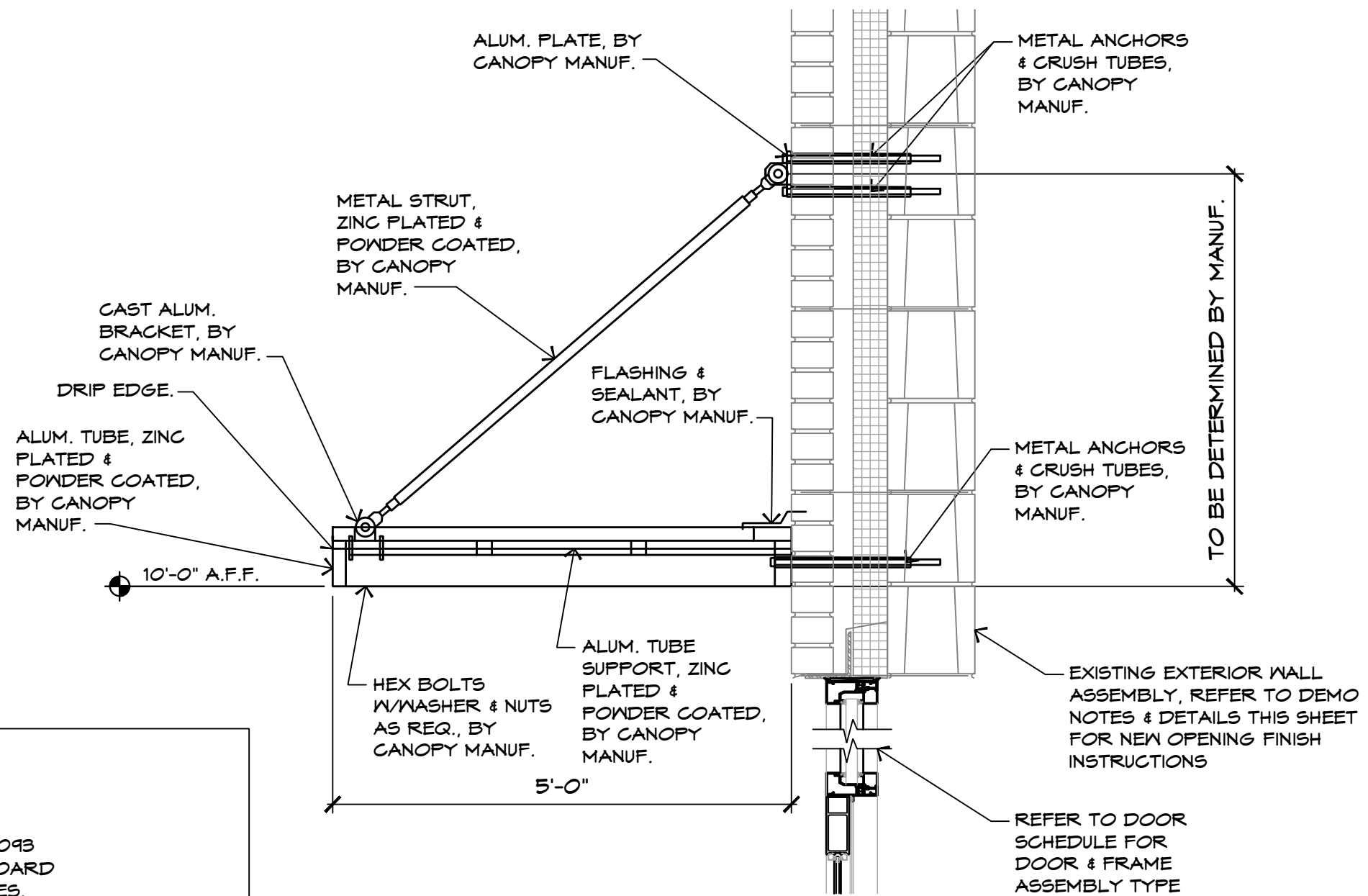
PINNACLE ARCHITECTURE
PROFESSIONAL ASSOCIATION



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DRAWN BY: JAE / JREB
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1 TYP. CANOPY DETAIL
A2.0 SCALE: NTS

NOTE:
1. GENERAL CONTRACTOR TO COORDINATE CANOPY FINISH COLORS WITH OWNER.
2. GENERAL CONTRACTOR TO REFER TO SHEET A1.2 FOR SELECTIVE DEMOLITION NOTES PRIOR TO CUTTING NEW DOOR OPENINGS IN EXISTING EXTERIOR WALLS.

ABBREVIATIONS & MATERIAL NOTES:

- 1. HM - HOLLOW METAL
- 2. ALUM - PREFABRICATED ALUMINUM

DOOR SCHEDULE NOTES: FOR REFERENCE ONLY

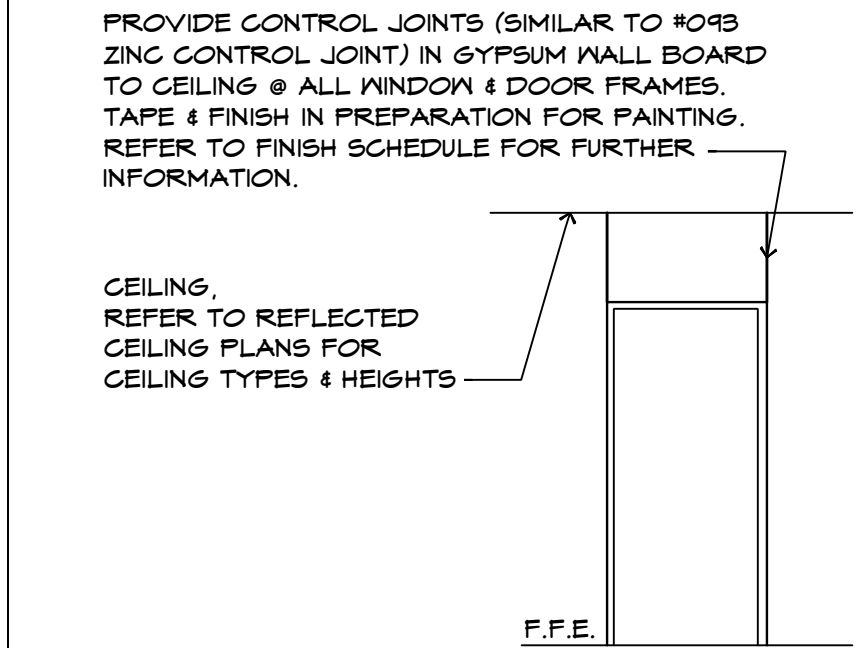
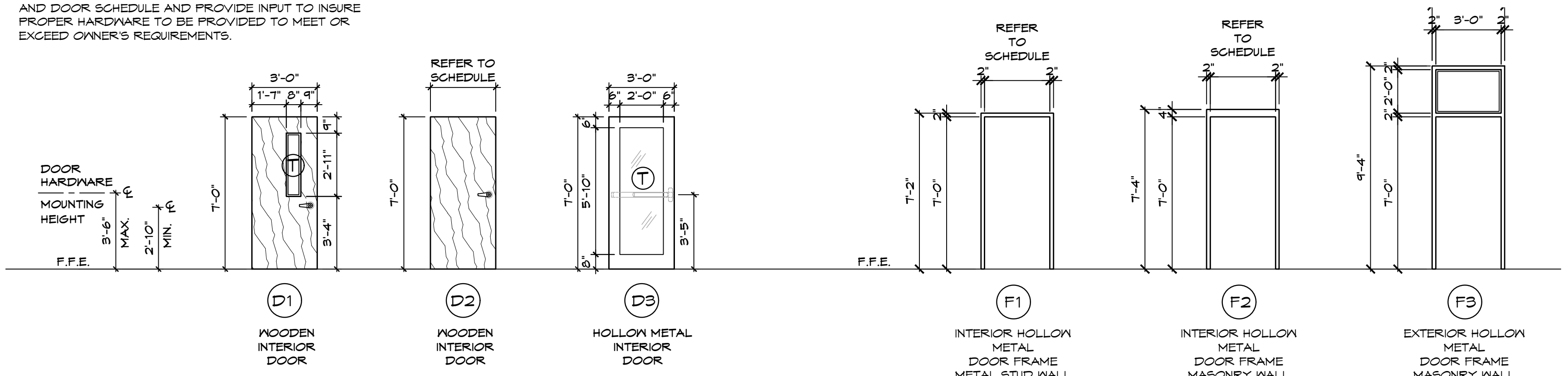
- 1. PROVIDE & INSTALL CLOSER W/ HOLD OPEN FEATURE.
- 2. PROVIDE & INSTALL GRADE 1 'LEVER' TYPE ADA COMPLIANT HANDLE W/ PASSAGE DOOR FUNCTION.
- 3. PROVIDE & INSTALL GRADE 1 PANIC HARDWARE.
- 4. PROVIDE & INSTALL 2 COAT HOOK PER BACK OF DOORS.
- 5. PROVIDE & INSTALL MAGNETIC HOLD OPEN.
- 6. ELECTRONICALLY CONTROLLED MAGNETIC DOOR LOCK.
- 7. G.C. TO VERIFY DOOR PREPARATIONS FOR CARD READER BY OWNER.
- 8. PROVIDE BMA CERTIFIED GRADE 1 ADA COMPLIANT LOCKSETS FOR CLASSROOM CORRIDOR DOORS WITH ABILITY TO LOCK FROM CLASSROOM INTERIOR.
- 9. HOLLOW METAL DOORS SHALL BE THE FLUSH SEAMLESS TYPE (NO CHANNEL HEADS).
- 10. ALL WOOD DOORS SHALL BE CENTER BALANCE MATCH AND BOOK MATCH FLITCH. ALL DOORS IN SAME AREA TO BE SIMILAR IN GRAIN 'SHADE'. DARK GRAINING WILL NOT BE ALLOWED.
- 11. ALL PAIRED DOORS WILL BE FROM SAME FLITCH AND BALANCED.
- 12. PROVIDE & INSTALL GRADE 1 OFFICE LOCK FUNCTION W/ 'LEVER' TYPE ADA COMPLIANT HANDLE.
- 13. PROVIDE & INSTALL GRADE 1 'LEVER' TYPE ADA COMPLIANT HANDLE W/ LOCKING ENTRY DOOR FUNCTION.
- 14. PROVIDE AND INSTALL KNOCK-DOWN (KD) TYPE METAL DOOR FRAMES.

- Ⓣ = TEMPERED GLASS, TYP.
- Ⓛ = LAMINATED GLASS, TYP.

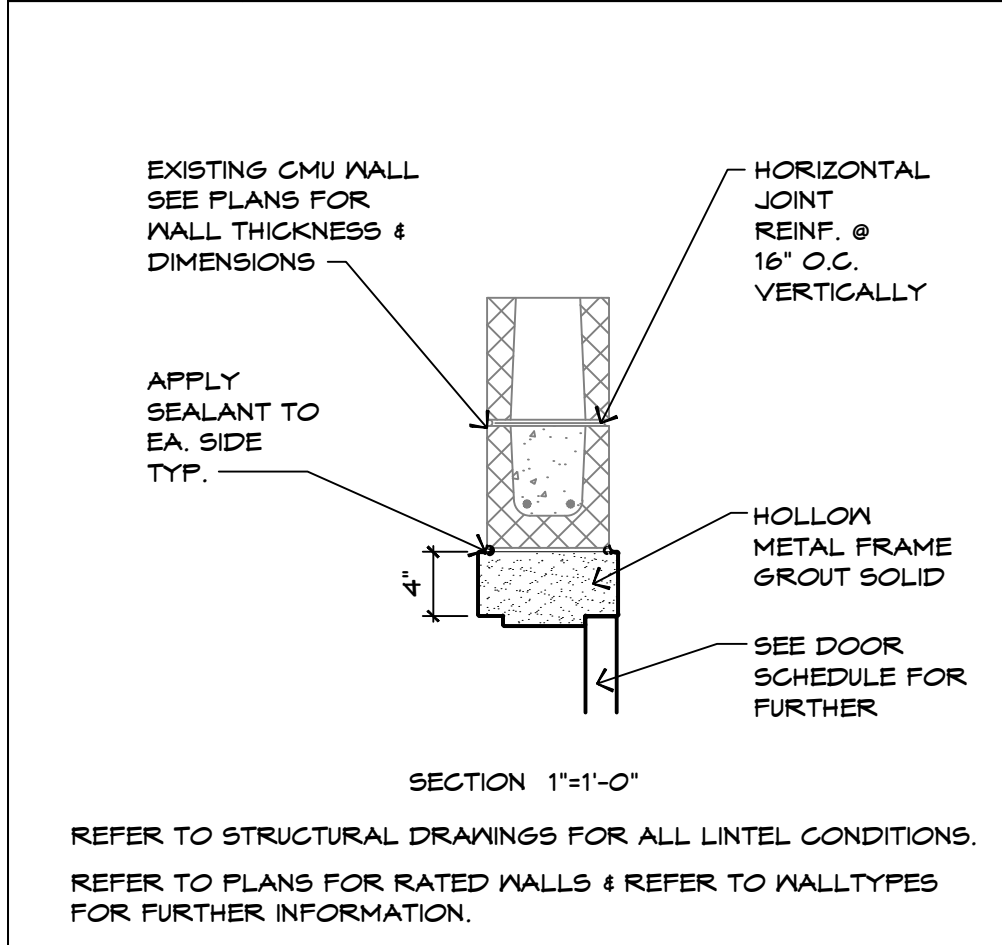
NOTE: DOOR HARDWARE SUPPLIER WILL REVIEW PLANS AND DOOR SCHEDULE AND PROVIDE INPUT TO INSURE PROPER HARDWARE TO BE PROVIDED TO MEET OR EXCEED OWNER'S REQUIREMENTS.

DOOR NUMBER	ROOM OR AREA	SIZE	DOOR		FRAME		HEAD DETAIL	JAMB DETAIL	THRES HOLD	FIRE RATING	CLOSER	NOTES
			STYLE	MAT'L	STYLE	MAT'L						
134A	SCIENCE CLASSROOM	3'-0"X7'-0"	D1	WD	F2	HM	DH-3	DJ-3	T-2	20 MIN.	YES	8, 10
134B	SCIENCE CLASSROOM	3'-0"X7'-0"	D3	HM	F3	HM	DH-4	DJ-4	T-1	N/A	YES	1, 3, 7, 13, 14
135A	CHEMICAL STORAGE	3'-0"X7'-0"	D2	WD	F1	HM	DH-2	DJ-2	T-2	N/A	NO	2, 10
136A	PREP ROOM	3'-0"X7'-0"	D2	WD	F1	HM	DH-2	DJ-2	T-2	N/A	NO	2, 10
136B	PREP ROOM	3'-0"X7'-0"	D2	WD	F1	HM	DH-2	DJ-2	T-2	N/A	NO	2, 10
137A	SCIENCE CLASSROOM	3'-0"X7'-0"	D1	WD	F2	HM	DH-3	DJ-3	T-2	20 MIN.	YES	8, 10
137B	SCIENCE CLASSROOM	3'-0"X7'-0"	D3	HM	F3	HM	DH-4	DJ-4	T-1	N/A	YES	1, 3, 7, 13, 14
138A	SCIENCE CLASSROOM	3'-0"X7'-0"	D1	WD	F2	HM	DH-3	DJ-3	T-2	20 MIN.	YES	8, 10
138B	SCIENCE CLASSROOM	3'-0"X7'-0"	D3	HM	F3	HM	DH-4	DJ-4	T-1	N/A	YES	1, 3, 7, 13, 14
139A	SCIENCE STORAGE	3'-0"X7'-0"	D1	WD	F2	HM	DH-1	DJ-1	T-2	20 MIN.	YES	8, 10
140A	PREP ROOM	3'-0"X7'-0"	D2	WD	F1	HM	DH-2	DJ-2	T-2	N/A	NO	2, 10
140B	PREP ROOM	3'-0"X7'-0"	D2	WD	F1	HM	DH-2	DJ-2	T-2	N/A	NO	2, 10
141A	CLASSROOM	3'-0"X7'-0"	D1	WD	F2	HM	DH-1	DJ-1	T-2	20 MIN.	YES	8, 10

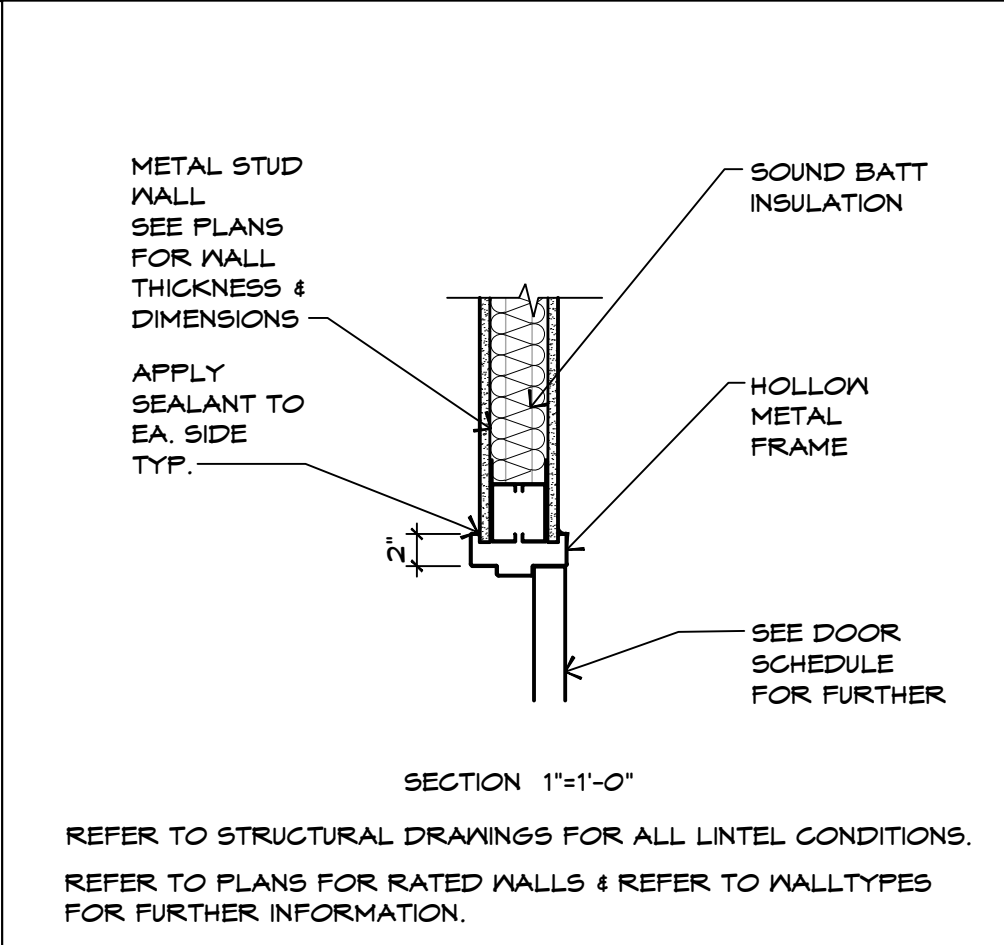
GENERAL DOOR NOTES:
1. GENERAL CONTRACTOR TO COORDINATE ALL METAL DOOR AND FRAME FINISH COLORS WITH OWNER.
2. ALL NEW WOOD DOORS TO BE FINISHED TO MATCH EXISTING WOOD DOORS.



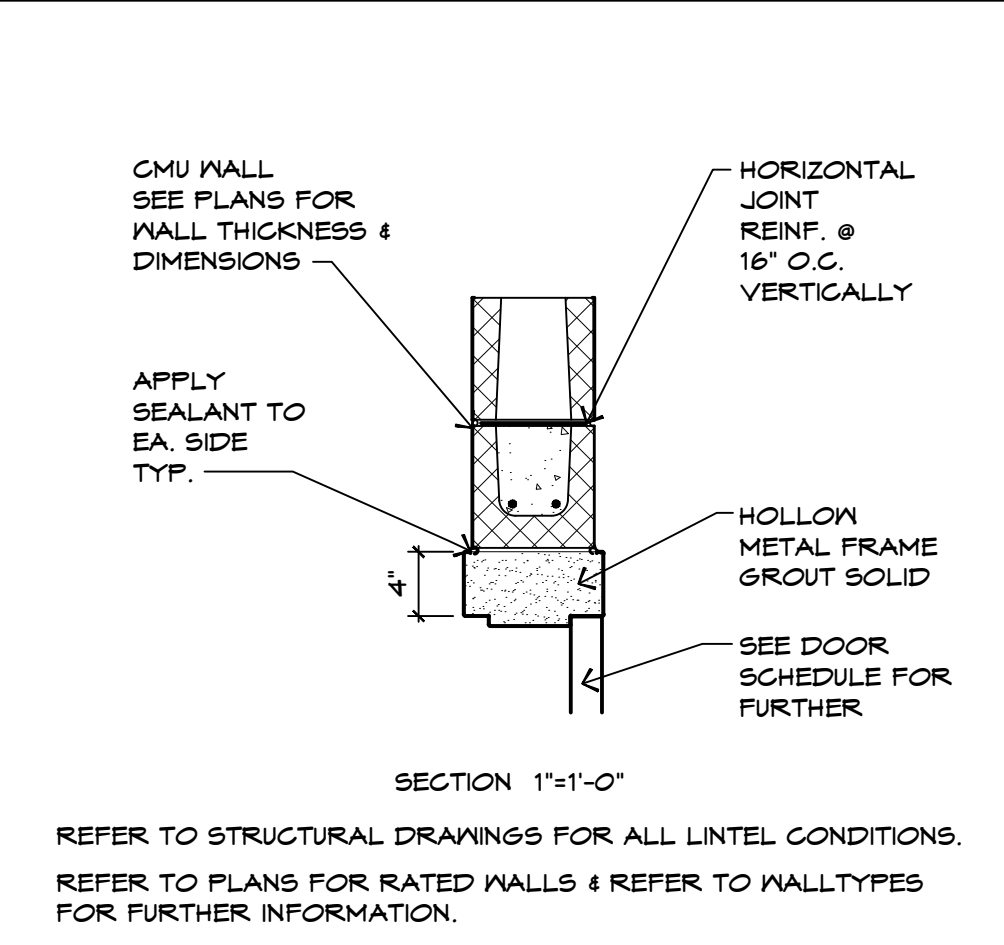
DET. 1 TYP. DOOR DETL. INTERIOR METAL DOOR & WINDOW FRAMES



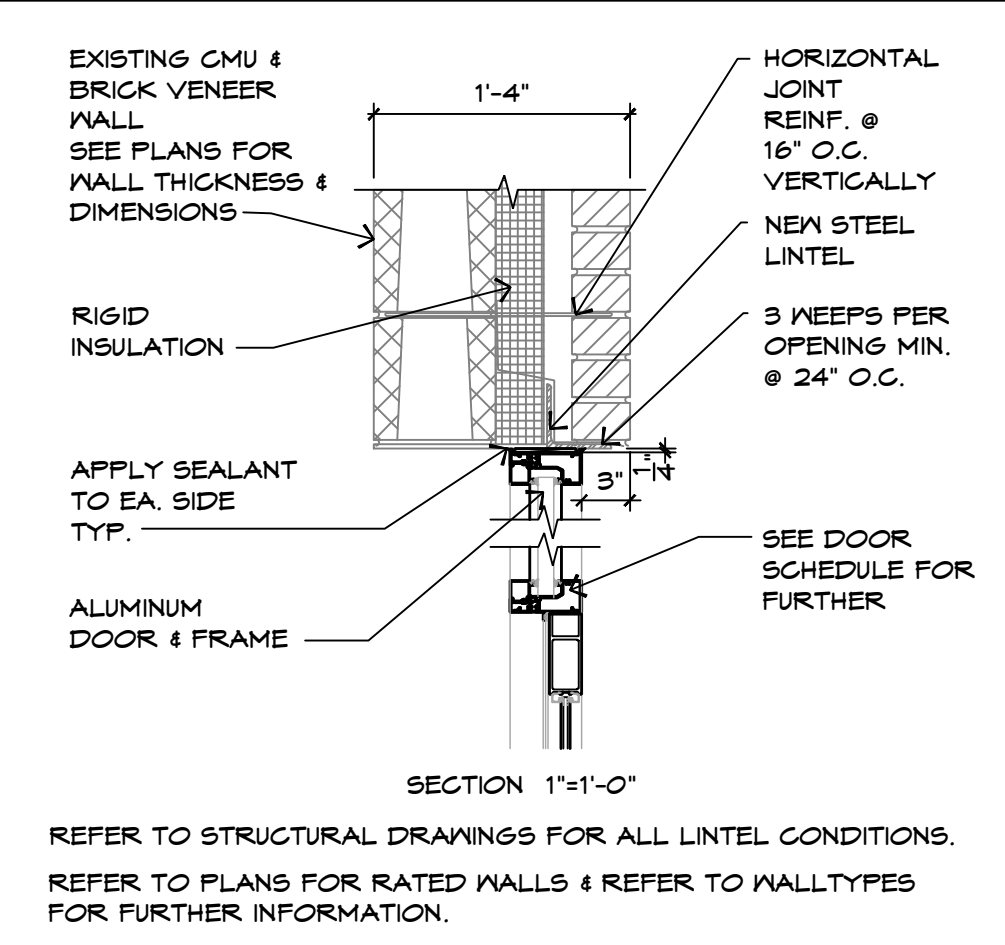
DH-1 TYP. DOOR HEAD DETL. FOR CMU HOLLOW METAL DOOR & FRAME



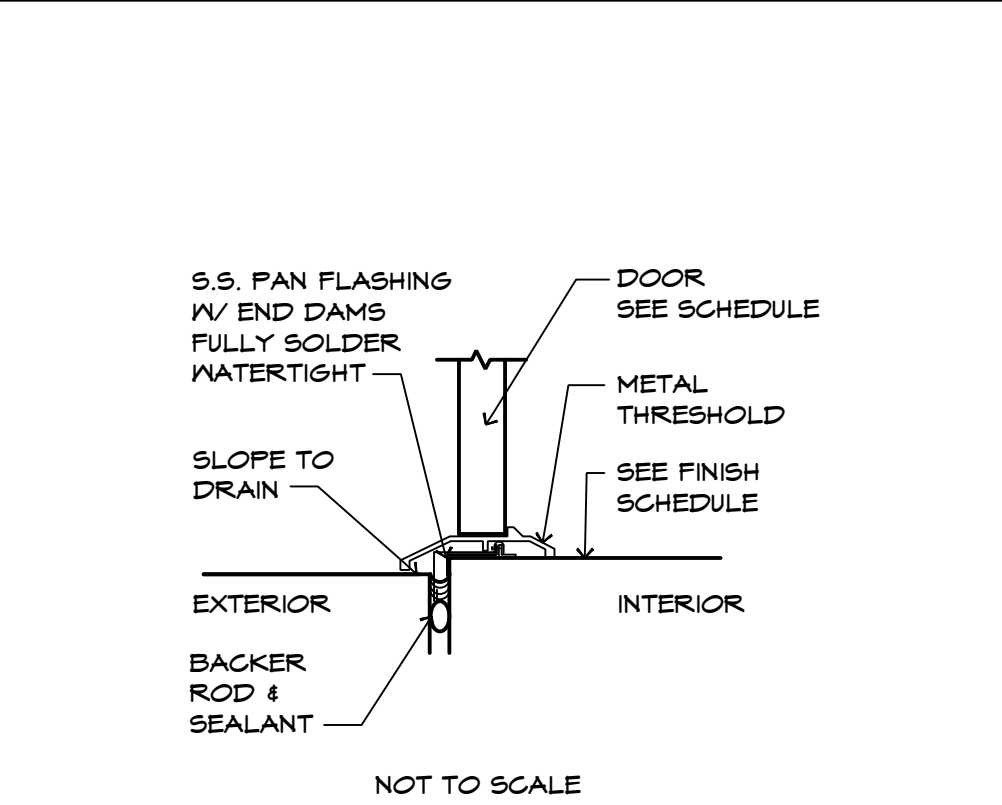
DH-2 TYP. DOOR HEAD DETL. FOR METAL STUD & GYP.BD. HOLLOW METAL DOOR & FRAME



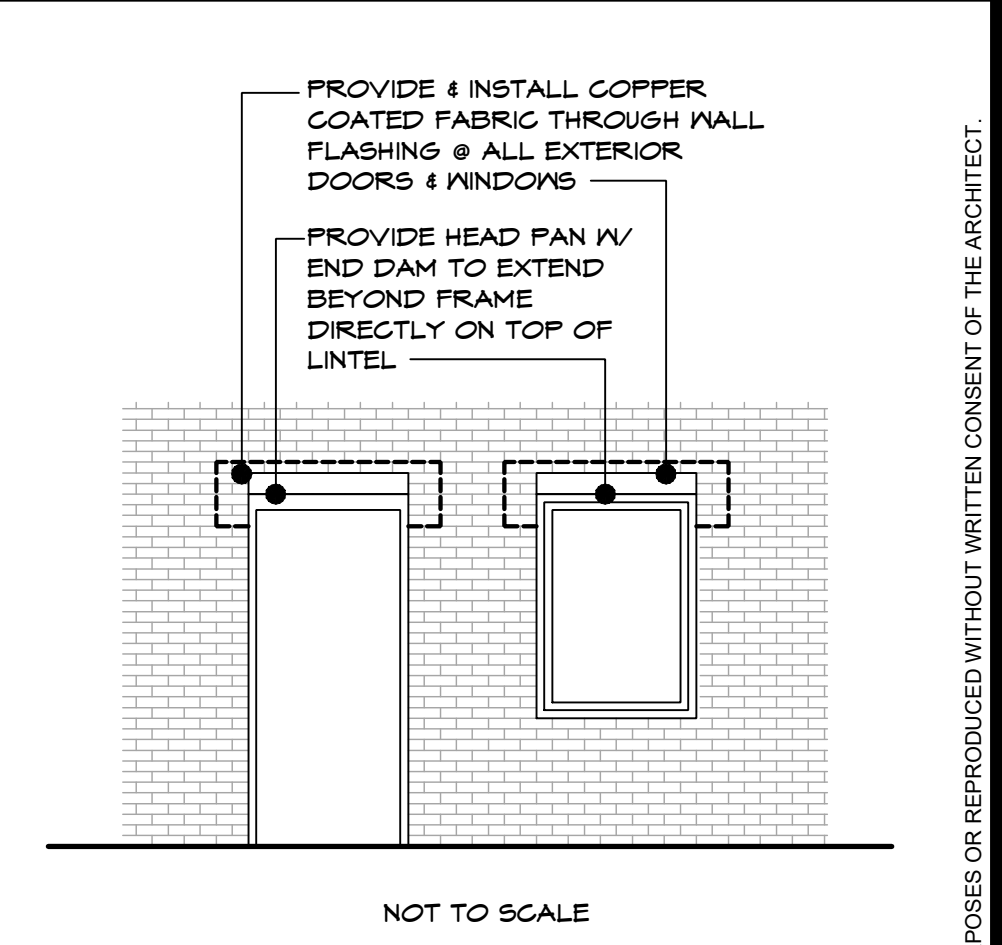
DH-3 TYP. DOOR HEAD DETL. FOR CMU HOLLOW METAL DOOR & FRAME



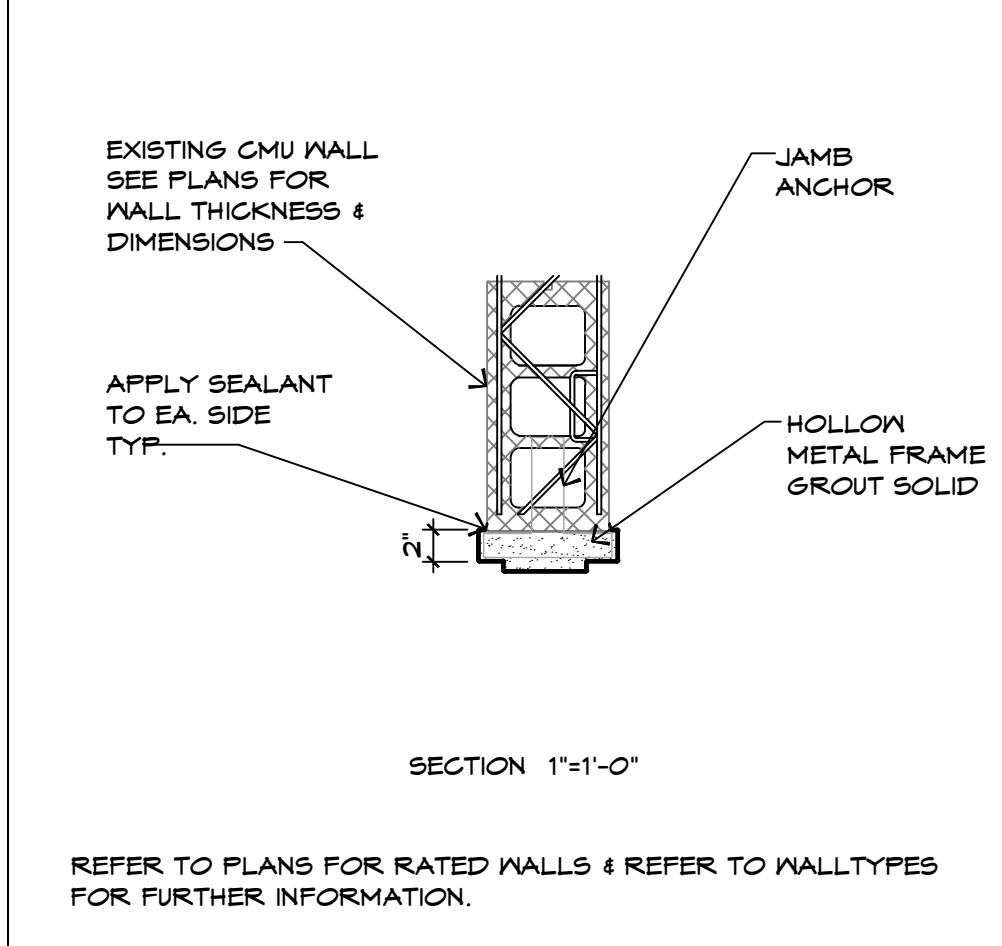
DH-4 TYP. DOOR HEAD DETL. FOR CMU/BRK. VENEER ALUMINUM STOREFRONT DOOR & FRAME



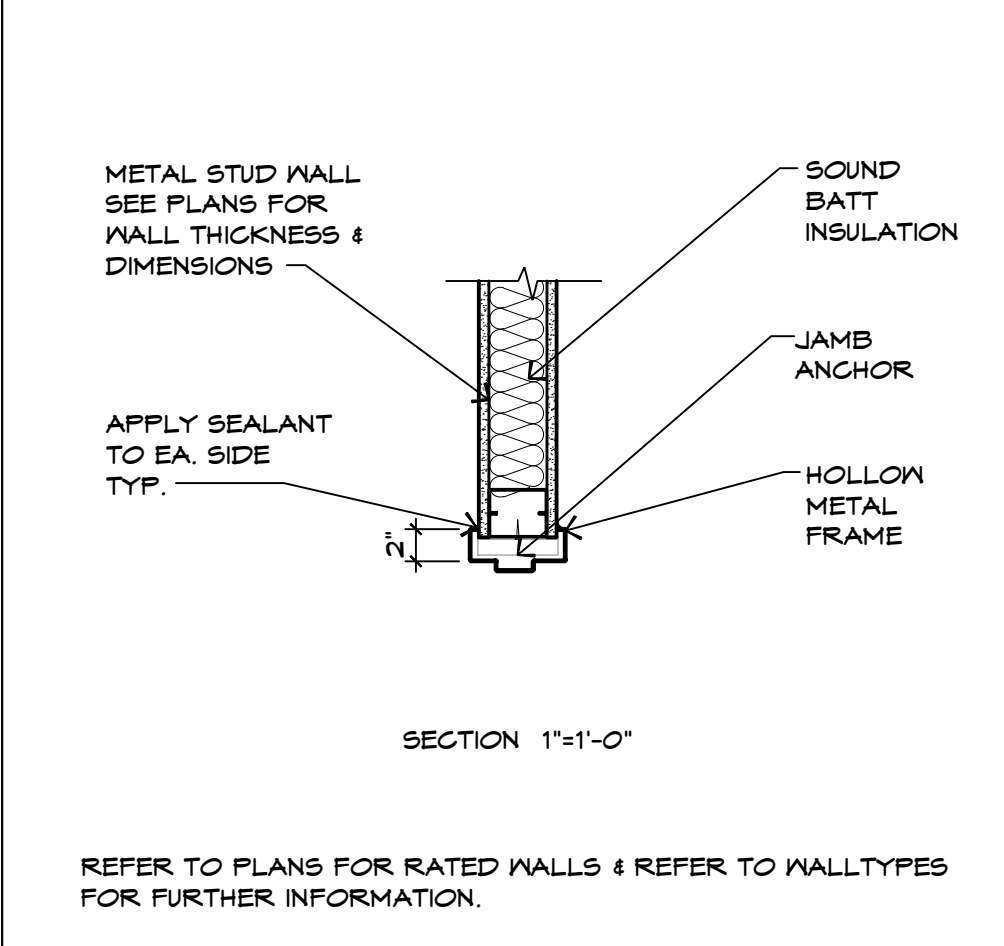
T-1 TYP. DOOR THRESHOLD DETL. EXTERIOR TO SCHEDULED INTERIOR FLOORING



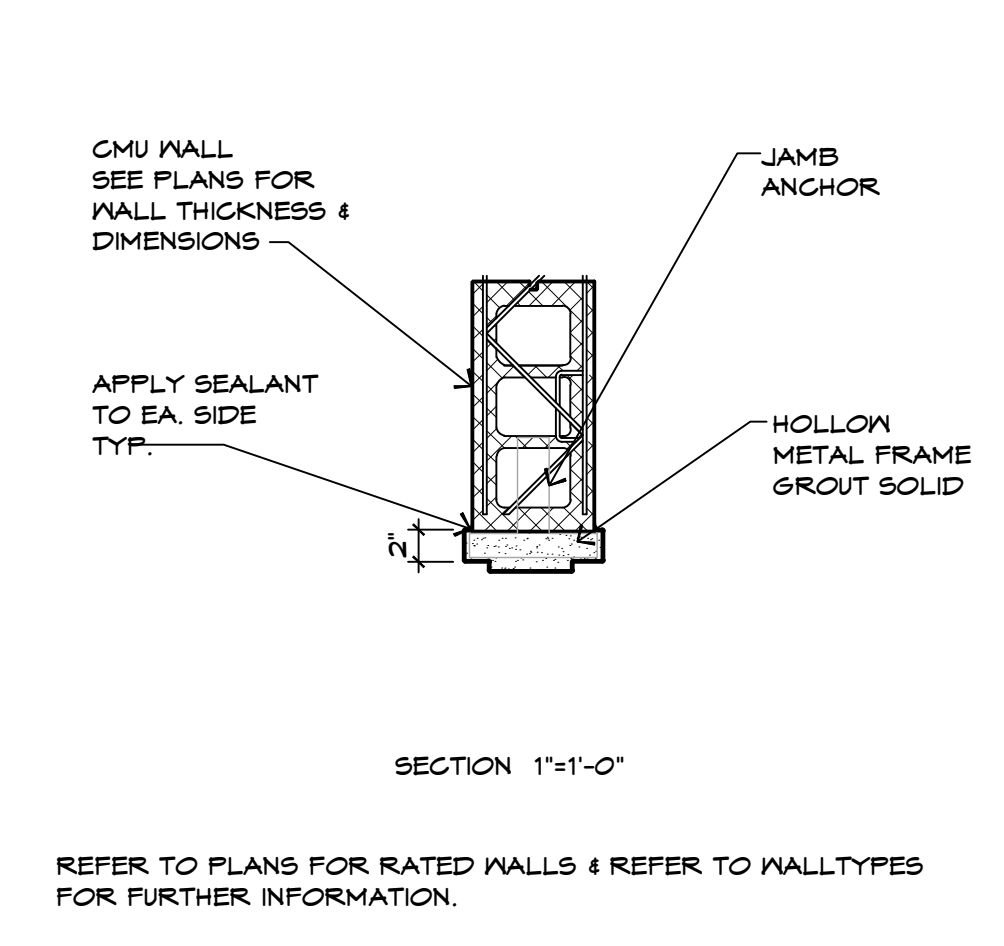
THF-2 TYPICAL HEAD FLASHING DETAIL @ EXTERIOR DOORS AND WINDOWS



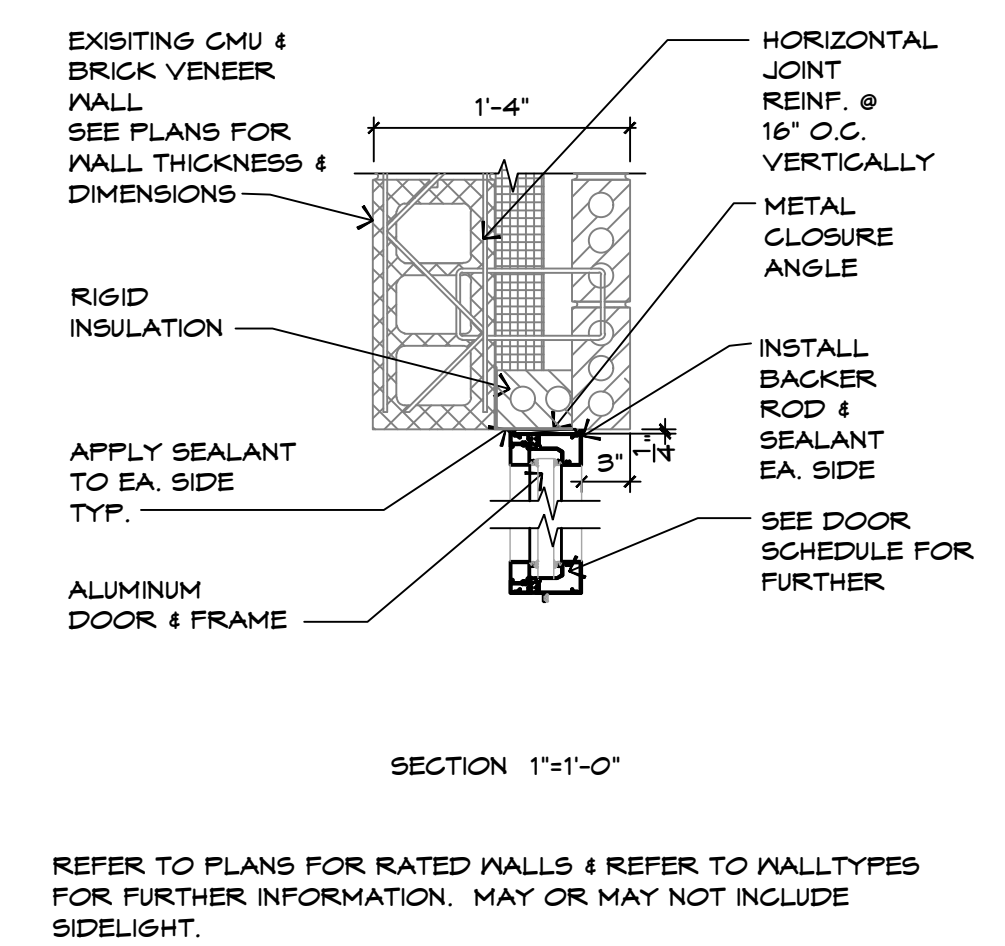
DJ-1 TYP. DOOR JAMB DETL. FOR EXISTING CMU WALL HOLLOW METAL DOOR & FRAME



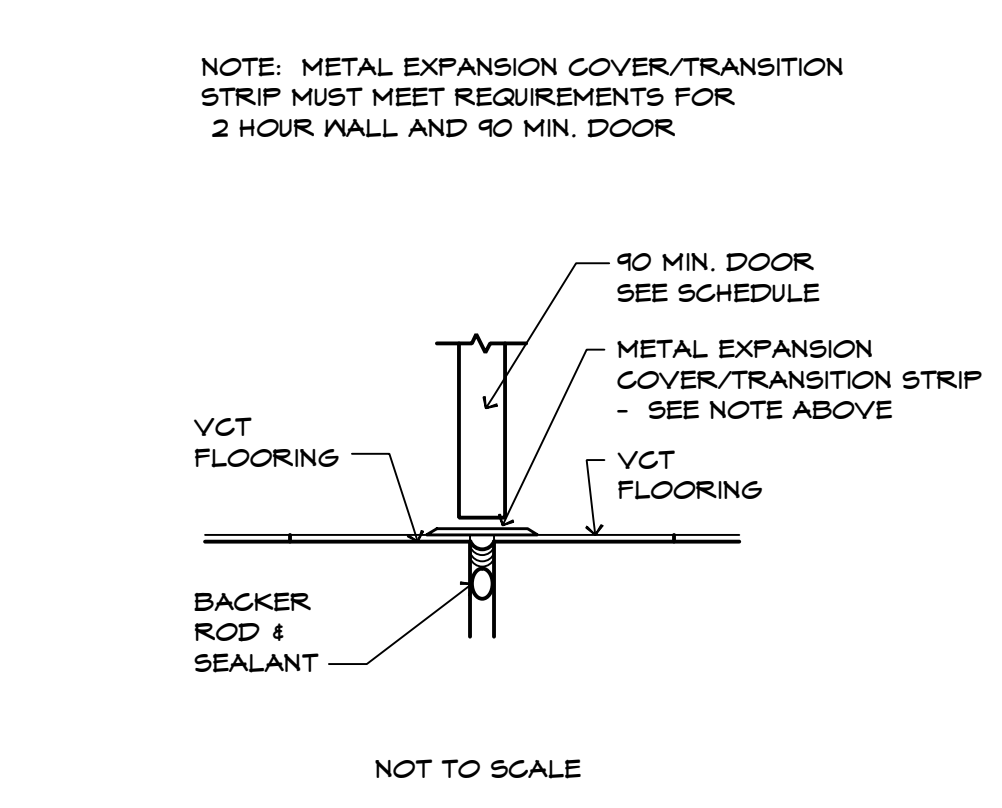
DJ-2 TYP. DOOR JAMB DETL. FOR METAL STUD & GYP.BD. HOLLOW METAL DOOR & FRAME



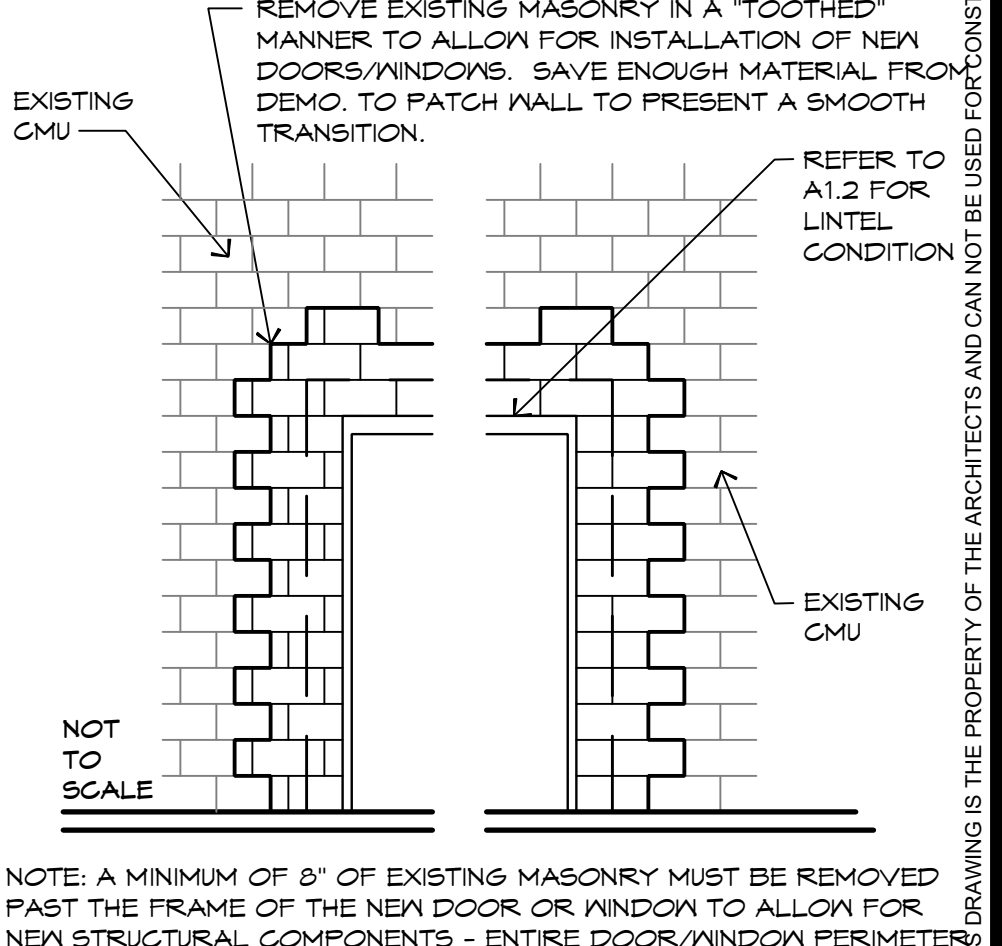
DJ-3 TYP. DOOR JAMB DETL. FOR CMU HOLLOW METAL DOOR & FRAME



DJ-4 TYP. DOOR JAMB DETL. FOR CMU/BRK. VENEER ALUMINUM STOREFRONT DOOR & FRAME



T-2 TYP. DOOR THRESHOLD DETL. SCHEDULED INTERIOR VCT FLOORING



DW-1 TYPICAL FOR ALL NEW DOOR & WINDOW OPENINGS IN EXISTING MASONRY WALLS

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ISSUE DATE: 03.27.2025
DRAWN BY: JAE/KREB
CHECKED BY: JAE/KREB
PROJECT: 2256-10

REVISION SCHEDULE
DATE REFERENCE

A2.0

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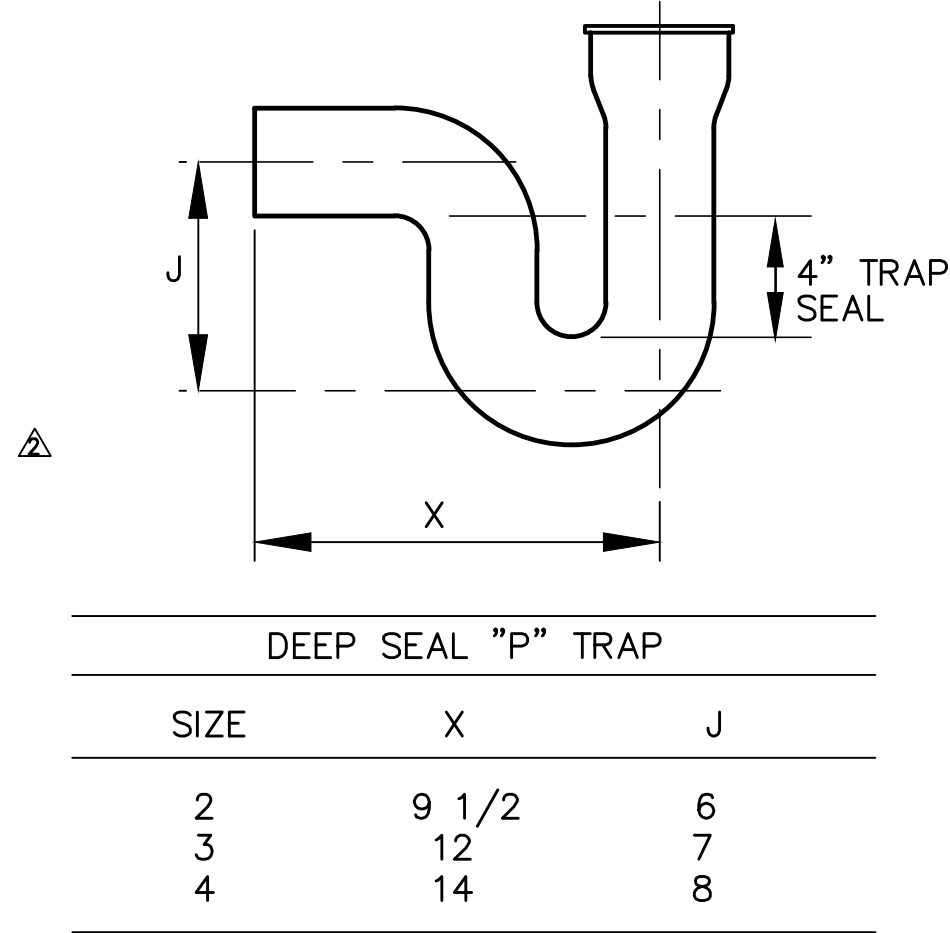
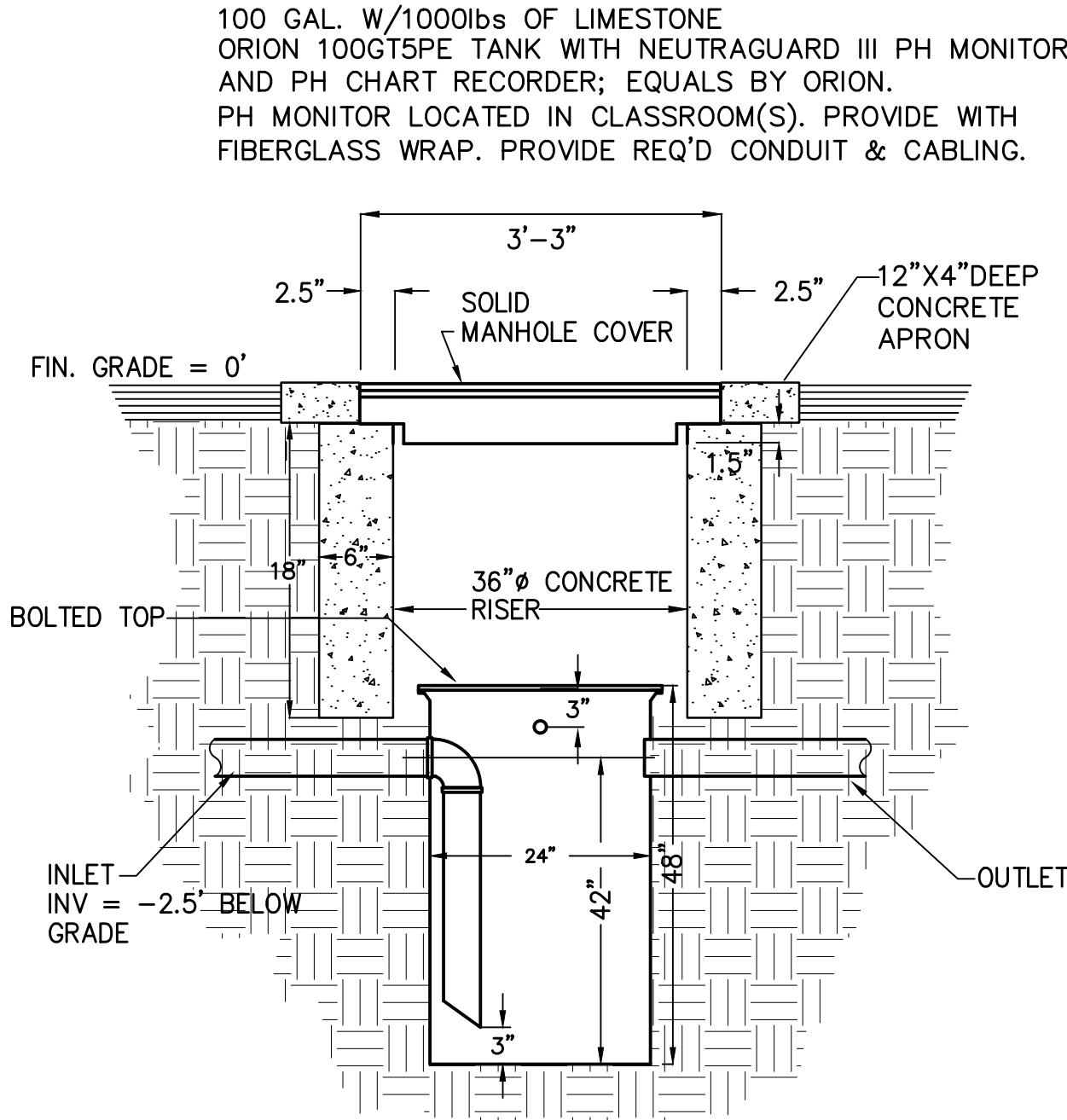
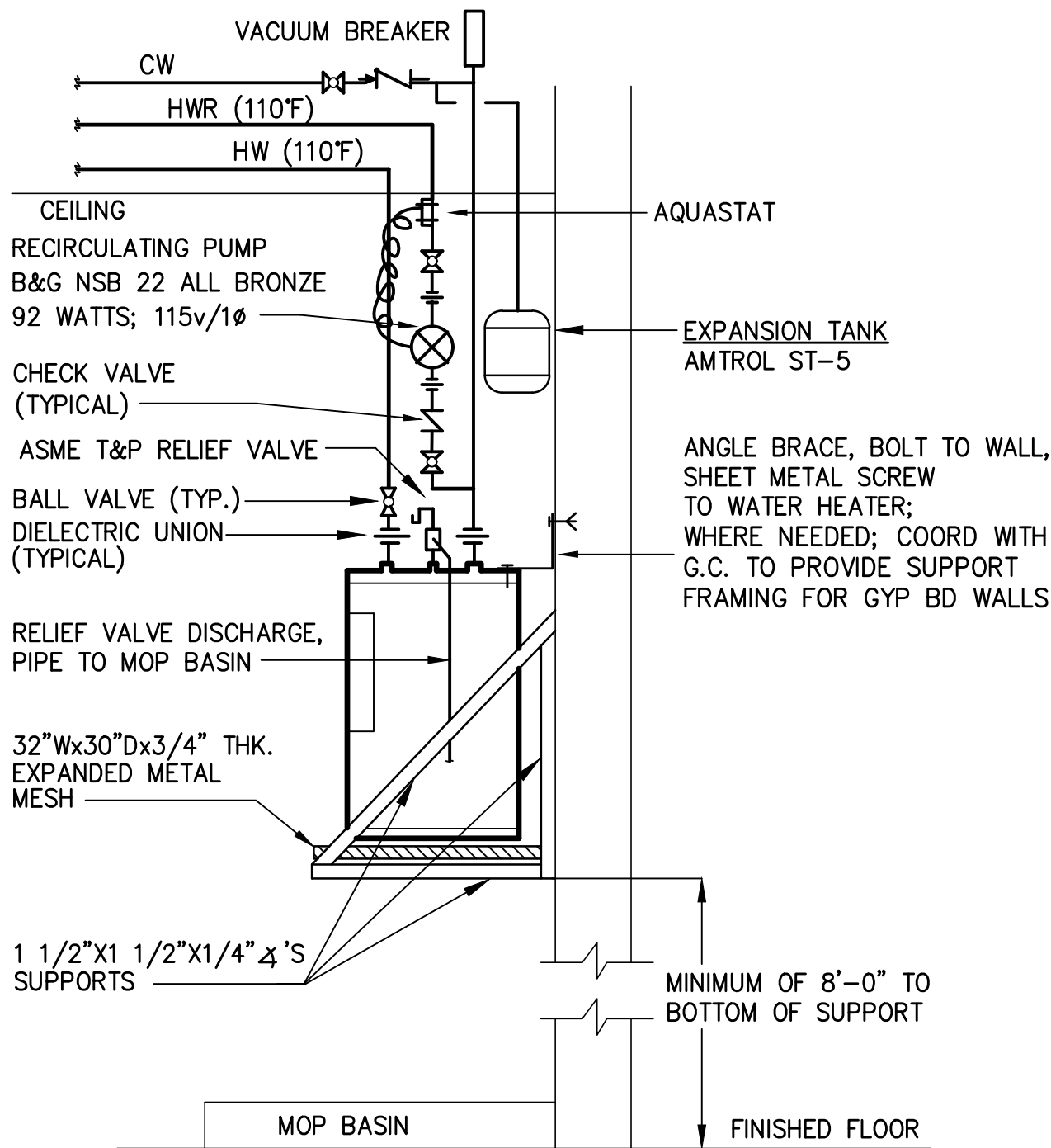
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ADDITIONS & RENOVATIONS
GATES COUNTY HIGH SCHOOL
GATESVILLE, NC

DOOR SCHEDULE
ELEVATIONS & DETAILS



2 MIN. TRAP DIMENSIONS
NTS

NEW ADDITION BLDG. LOAD SUMMARY

WATER FIXTURE UNITS —	104
WATER GPM —	73
WASTE FIXTURE UNITS —	49
HW GPH (110°F) —	56

PLUMBING SPECIALTIES SCHEDULE			
SYM	DESCRIPTION	MODEL NUMBER	REMARKS
FD	FLOOR DRAIN	ZURN ZN-415-S	1,7
SFD	SHOWER FLOOR DRAIN	ZURN Z-415-B WITH POLISHED CHROME TOP	1
FCO	FLOOR CLEANOUT	ZURN ZN-1400-T WITH NIKALOY TOP, CARPET MARKERS AS REQUIRED, SEE ARCHITECTURAL FINISH SCHEDULE FOR CARPETED AREAS.	1
YCO	YARD CLEANOUT	ZURN Z-1406-HD WITH CAST IRON TOP ZURN Z-1474-HD WITH CAST IRON TOP (TRAFFIC AREAS)	1
FPH	FROST-PROOF HYDRANT	WOODFORD #67 W/ DBL CHECK VALVE (ASSE 1052)	2,3
HB	HOSE BIBB	WOODFORD #26 WITH LOOSE KEY, CHROME PLATED, (ASSE 1052).	2,3
RHY	ROOF HYDRANT	WOODFORD #SRH-MS W/ DBL CHECK VALVE (ASSE 1052).	2,3
WCO	WALL CLEANOUT	ZURN Z-1446 W/STAINLESS STEEL COVER	1, 8
RD	ROOF DRAIN	ZURN Z-100, DECKCLAMP,ADJ. SLEEVE, DRAIN RECEIVER & C.I. DOME	1
OD	OVERFLOW DRAIN	ZURN Z-100-W4, DECKCLAMP,ADJ. SLEEVE, DRAIN RECEIVER & C.I. DOME	1
?	SHOCK ABSORBER	SIoux CHIEF, A=652-A, B=653-B, C=654-C, D=655-D	6
TP	TRAP PRIMER	PRECISION PRODUCTS MODEL PR-500 W/SS-X & DU-X.	1,7
TP	TRAP PRIMER	ZURN Z-1022 @ TRAP TO Z-1023 @ FLOOR DRAIN.	1,7
FS	FLOOR SINK	ZURN ZN-1901-2 W/ 1/2 GRATE & SEDIMENT BUCKET.	1,5,7
FSA	FLOOR SINK	ZURN ZN-1901 W/SEDIMENT BUCKET & NICKEL BRONZE GRATE.	1,5,7
FSB	FLOOR SINK	ZURN ZN-1901 W/ DEPRESSED GRATE & SEDIMENT BUCKET.	1,5,7
FSDW	FLOOR SINK (DISHWASHER)	ZURN ZN-1920-2 W/ 1/2 GRATE & SEDIMENT BUCKET.	1,5,7
TD	FLOOR SINK	ZURN Z-890 (6"w) /Z-895 (12"w), STAINLESS STEEL. PROVIDE ZS880 FOR SHWRS	1,7
WH	WALL HYDRANT	WOODFORD MODEL HC67 SERIES (ASSE 1052)	2,3
AAV	AIR ADMITTANCE VALVE	STUDOR VENT (SIZED PER MFG. RECOMMENDATION)	4
AD	AUXILIARY DRAIN	GUY-GRAY FRAD12; PROVIDE P-TRAP & TRAP PRIMER	4
PD	PARKING DRAIN	ZURN Z547 W/HEEL PROOF GRATE	1
DD	DECK DRAIN	ZURN Z158 SQ TOP DECK DRAIN W/HEEL -PROOF GRATE	1

- EQUALS BY JOSAM, JAY R. SMITH, ZURN, MIFAB, WATTS.
- EQUALS BY JOSAM, JAY R. SMITH.
- PROVIDE INTEGRAL CHECK STOPS AT ALL WALL FAUCETS.
- EQUALS BY OATEY, SIOUX CHIEF.
- PROVIDE WITH NB FRAMING GRATE
- EQUALS BY JOSAM, JAY R. SMITH, WATTS - ASSE 1010 APPROVED. PROVIDE AT QUICK-CLOSING FIXTURES PER IPC 604.9.
- AT EACH FLOOR DRAIN & FLOOR SINK, PROVIDE WITH TRAP PRIMER CONNECTION (SUFFIX -P) AND INCLUDE PRIMER OPTION "TP" NOTED ABOVE.
- PROVIDE WCO AT BASE OF EACH WASTE STACK PER IPC 708.3.4.

INSTANTANEOUS WATER HEATER SCHEDULE						
Unit Tag	Volts / Phase	kW	Amps	Rise at 0.5 GPM (Deg F.)	Recommended Wire Size (AWG)	EE Max Model
IWH-1	208/1	4.5	22	54	10	RTEX-06

WATER HEATER SCHEDULE (ELECTRIC)

UNIT TAG	MANUFACTURER	MODEL	STORAGE CAPACITY (GAL)	CAPACITY EWT (°F) LWT (°F)	WATTS (KW)	RECOVERY 100 DEG RISE (GPH)	VOLT/Ø	REMARKS
WH-1	AO SMITH	DRE-52	50	60 120	6	41	208/1	1-3

- REFER TO APPROVED MANUFACTURER LIST FOR ACCEPTABLE EQUAL MANUFACTURERS. COORDINATE POWER REQUIREMENTS FOR SUBSTITUTIONS. FURTHER SUBSTITUTIONS ALLOWED BASED ON OWNER AND ENGINEER APPROVAL.
- WATER HEATER SHALL BE PROVIDED WITH ASME RATED T&P RELIEF VALVE
- PER DETAIL 6 ON THIS SHEET, PROVIDE EXPANSION TANK, WATTS MODEL PLT-5 OR EQUAL, WELDED STEEL, TESTED AND STAMPED IN ACCORDANCE WITH IAMPO AND CERTIFIED TO ANSINFS-61, RATED FOR 125 PSI, WITH FLEXIBLE DIAPHRAGM SEALED INTO TANK AND STEEL LEGS OR SADDLE. PROVIDE WITH PRESSURE GAUGE AND AIR CHARGE FITTING, TANK DRAIN, AND PRECHARGED TO 12 PSI.

APPROVED MANUFACTURER LISTING - PLUMBING

THE FOLLOWING MANUFACTURER'S LISTING (ALPHABETICALLY ORDERED) IS PROVIDED FOR BIDDING PURPOSES AND DOES NOT IMPLY OR PROVIDE A GUARANTEE OF SUBMITTAL APPROVAL. ALL ITEMS SUBMITTED SHALL MEET OR EXCEED THE MINIMUM SPECIFIED DESIGN AND QUALITY CRITERIA IN THIS SET OF CONSTRUCTION DOCUMENTS. ANY BIDDER THAT INTENDS TO SUBMIT USING A MANUFACTURER NOT LISTED BELOW MAY REQUEST A PRIOR APPROVAL IN ACCORDANCE WITH THE ENTIRETY OF THE PROJECT BID DOCUMENTS, REFER TO THE ARCHITECT'S GENERAL CONDITIONS AND BIDDING REQUIREMENTS.

THE BIDDER IS RESPONSIBLE FOR INCLUDING ALL COSTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT, INCLUDING BUT NOT LIMITED TO, CODE AND MANUFACTURER'S REQUIRED MAINTENANCE AND ACCESS CLEARANCE, COORDINATION WITH ALL OTHER BUILDING TRADES, AND INSTALLATION OF DUCTWORK, PIPING, ETC. BIDDER SHALL BEAR RESPONSIBILITY FOR ALL ASSOCIATED COSTS AND ADDITIONAL COSTS RESULTING FROM SUBSTITUTED ITEMS SHALL NOT BE CONSIDERED FOR APPROVAL AFTER BIDS ARE AWARDED.

ITEM	MANUFACTURER'S
WATER HEATER - TANK TYPE	AO SMITH, RHEEM, RINNAI, STATE

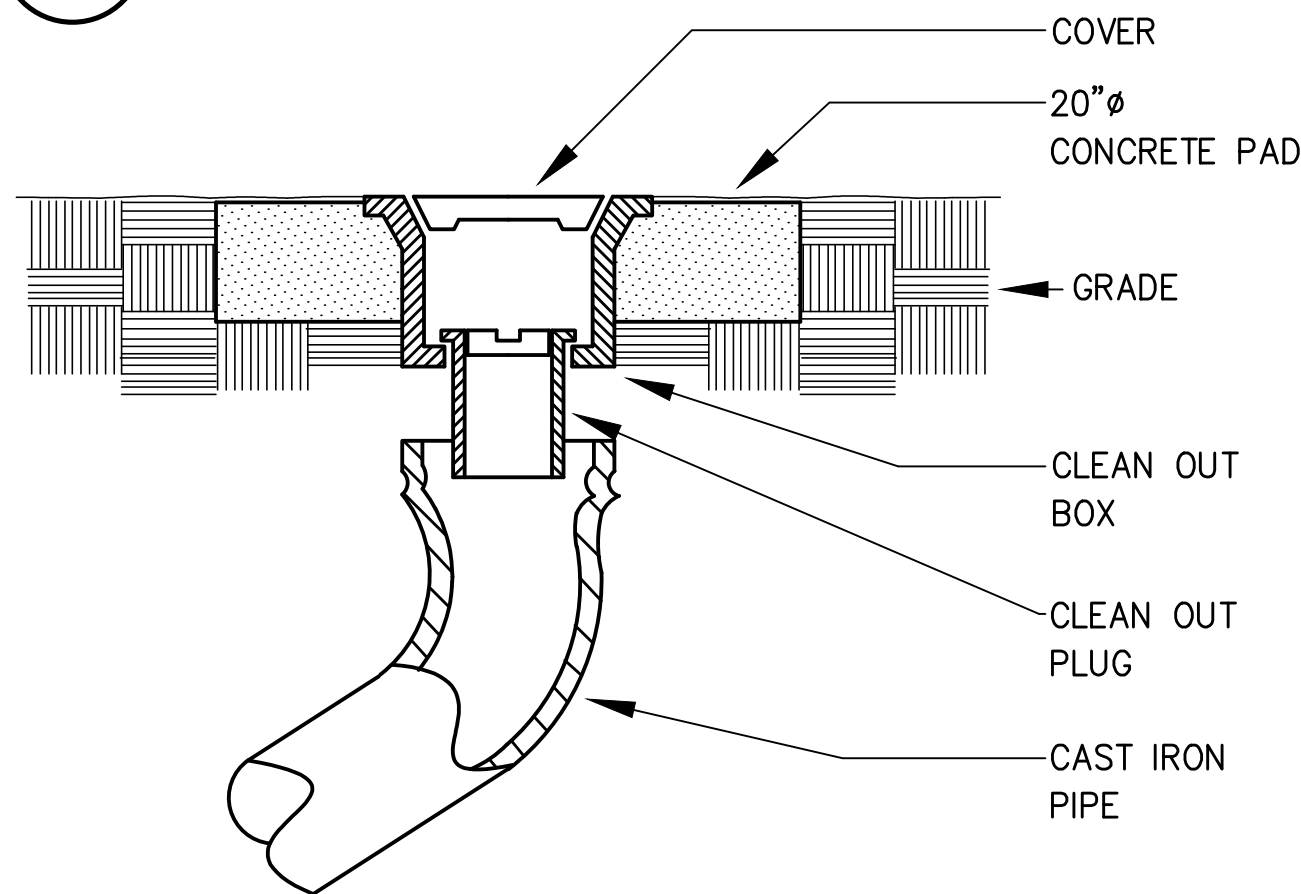
PLUMBING FIXTURE SCHEDULE

ALL PLUMBING FIXTURES MUST BE REVIEWED AND APPROVED BY OWNER PRIOR TO ORDERING.

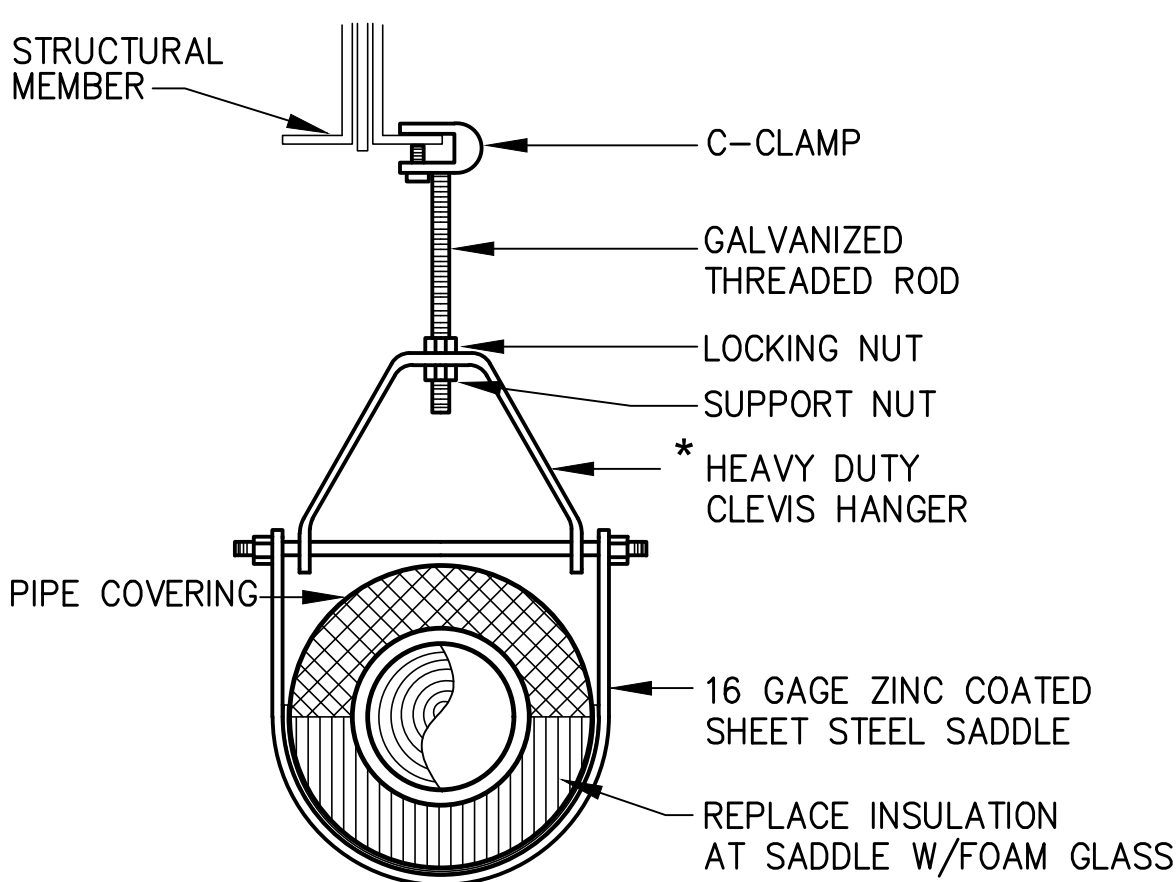
SYM	DESCRIPTION	CW	HW	W	V	MODEL NUMBER	REMARKS
P-1	WATER CLOSET	1 1/4"	-	3"	2"	KOHLER "WELLCOMME" K-96053-0; BENEKE 527SS SEAT; SLOAN ROYAL 115-1.6-YK FLUSH VALVE	1,4,5,6
P-2	WATER CLOSET (ADA)	1 1/4"	-	3"	2"	KOHLER "HIGHCLIFF" K-96057-0; BENEKE 527SS SEAT; SLOAN ROYAL 111 FLUSH VALVE	1,4,5,6,7,8
P-3	URINAL	3/4"	-	2"	2"	SLOAN WEUS 1005.1001-0.5 GPF W/SLOAN ROYAL 186-1 FLUSH VALVE & WALL MOUNTED URINAL	1,4,5,6
P-4	LAVATORY (WALL GRID)	1/2"	1/2"	2"	2"	KOHLER "HUDSON" K-2861; DELTA 501LF-HGMHDF FAUCET; K-7608 SUPPLY; K-8998 TRAP, K-7129-A DRAIN.	1,2,3,9,15,17
P-5	MOP BASIN	1/2"	1/2"	3"	2"	FIAT MSB-2424 W/ 830-AA FAUCET, 832-AA HOSE BRACKET, 889-CC MOP HANGER & SEALANT AS REQUIRED. INCLUDE SS WALL GUARDS.	1,14,19
P-6	WATER COOLER	1/2"	-	2"	2"	OASIS MODEL PG8ACSL, PROVIDE ACCESSORY APRON ON UPPER UNIT. PROVIDE STOP & TRAP. COLOR SELECTED BY ARCHITECT.	1,13,18
P-6A	WATER COOLER W/ BOTTLE FILL	1/2"	-	2"	2"	OASIS MODEL PG8SBFSL, PROVIDE ACCESSORY APRON ON UNIT. PROVIDE STOP & TRAP. ALL STAINLESS STEEL FINISH.	1,13,18
P-7	SINGLE CMPT. SINK	1/2"	1/2"	2"	2"	ELKAY LR-2219 W/LK-335 STRAINER; CHICAGO 201-G8AE3-317AB FAUCET; KOHLER K-7608-CP SUPPLY, K-9000 TRAP	1,2,10,16
P-8	DOUBLE CMPT. SINK	1/2"	1/2"	2"	2"	ELKAY LR-3319-3 W/LK-232-S FAUCET, LK-335 STRAINER, K-7608-CP SUPPLY; K-9000 TRAP, LK-53 DRAIN. ZURN Z-1180 SEDIMENT TRAP	1,2,10
P-9	EMERGENCY EYE WASH	1-1/4"TW	-	2"	2"	HAWS MODEL 7656WCSM WHEELCHAIR ACCESSIBLE SURFACE MOUNT EYE/FACE WASH	21
P-10	SINGLE CMPT. SINK (ADA)	1/2"	1/2"	2"	2"	ELKAY LRAD-252155 W/LK-335 STRAINER; CHICAGO 201-G8AE3-317AB FAUCET; KOHLER K-7608-CP SUPPLY, K-9000 TRAP	1,2,10,16

- SEE ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL FIXTURES.
- INCLUDE ADA COMPLIANT OFFSET SINK STRAINER; PROVIDE TRUEBRO MODEL 102 INSULATION KIT, PLUMBEREX MODEL PRO-2000 OR MCGUIRE FWV6902.
- PREWIRAPED CAST P-TRAP ASSEMBLY KIT ON ALL HANDICAP ACCESSIBLE LAVATORIES AND/OR SINKS.
- PROVIDE CARRIERS FOR ALL WALL MOUNTED FIXTURES.
- FOR LAVATORIES: SINGLE HANGER FOR BLOCK WALLS; FOR GYPBOARD WALL, PROVIDE FLOOR-MOUNT ARM CARRIERS (CONCEALED OR EXPOSED PER MFR'S REQUIREMENTS).
- EQUAL CHINA FIXTURE BY AMERICAN STANDARD, ZURN & SLOAN.
- EQUAL TOILET SEAT BY BEMIS, OLSONITE & BENEKE.
- EQUAL FLUSH VALVES BY ZURN & TOTO.
- TOP OF FLUSH VALVE SHALL BE LOCATED MINIMUM 3" BELOW BOTTOM OF GRAB BAR. P.C. TO CUIT OUTLET TUBE AS REQUIRED.
- FLUSH VALVE MECHANISM SHALL BE LOCATED OPPOSITE OF HAND RAIL AS PER ADA REQUIREMENT.
- EQUAL FAUCETS BY SYMMONS, CHICAGO FAUCETS, DELTA, MOEN, ZURN & AMERICAN STANDARD.
- EQUAL STAINLESS STEEL SINK BY FRANKE & JUST.
- EQUAL SHOWER STALL BY AMERICAN STANDARD, CRANE, AQUATIC, MAAX, AQUA GLASS & AQUARIUS.
- EQUAL SHOWER TRIM BY ZURN, LEONARD & SPEAKMAN (PROVIDE SHOWER PAN AS REQ'D PER CODE SECTION 417.4 & 417.5; SEE ARCH DWGS/SPECS FOR DETAILS).
- EQUAL WATER COOLER/DRINKING FOUNTAIN BY HALSEY TAYLOR, SUNROC, HAWS & ELKAY.
- EQUAL MOP BASIN BY SWANSTONE, E.L.MUSTEE.
- WHEN ASTERISK ("*") PREFIX IS USED, PROVIDE TRAP PRIMER AND PIPE 1/2" LINE BELOW SLAB TO FLOOR DRAIN.
- EQUAL FAUCETS BY CHICAGO FAUCETS, T&S, ELKAY, ZURN & AMERICAN STANDARD. SINGLE SINK = RIGID SPOUT; DOUBLE SINK = RESTRICTED SPOUT.
- EQUAL CAST IRON LAVATORIES BY CECO & ZURN.
- ACCESSORY APRON MAY BE OMITTED IF WATER COOLER IS RECESSED.
- PROVIDE INTEGRAL CHECK STOPS AT ALL WALL FAUCETS.
- EQUAL SPECIALTY FIXTURE BY OATEY, SIOUX CHIEF.
- EQUALS BY BRADLEY AND ENCON.

6 WATER HEATER DETAILS NTS (MOUNT AS HIGH AS POSSIBLE)



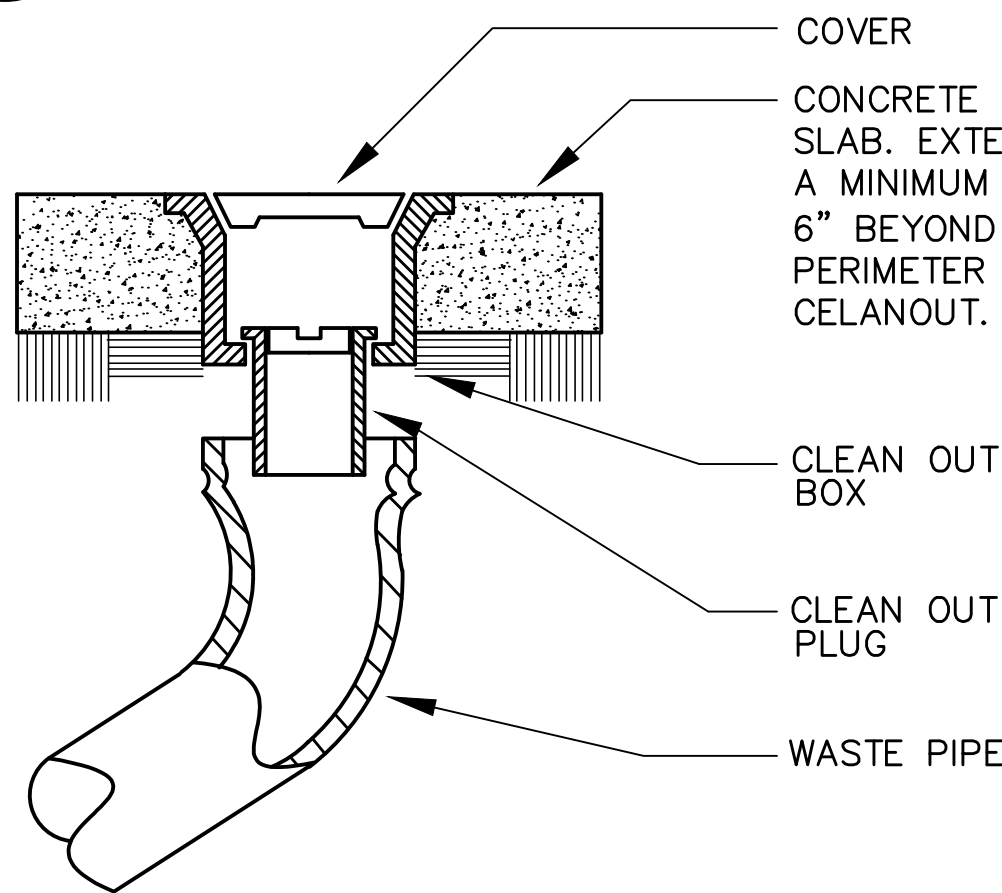
5 YARD CLEANOUT DETAILS NTS



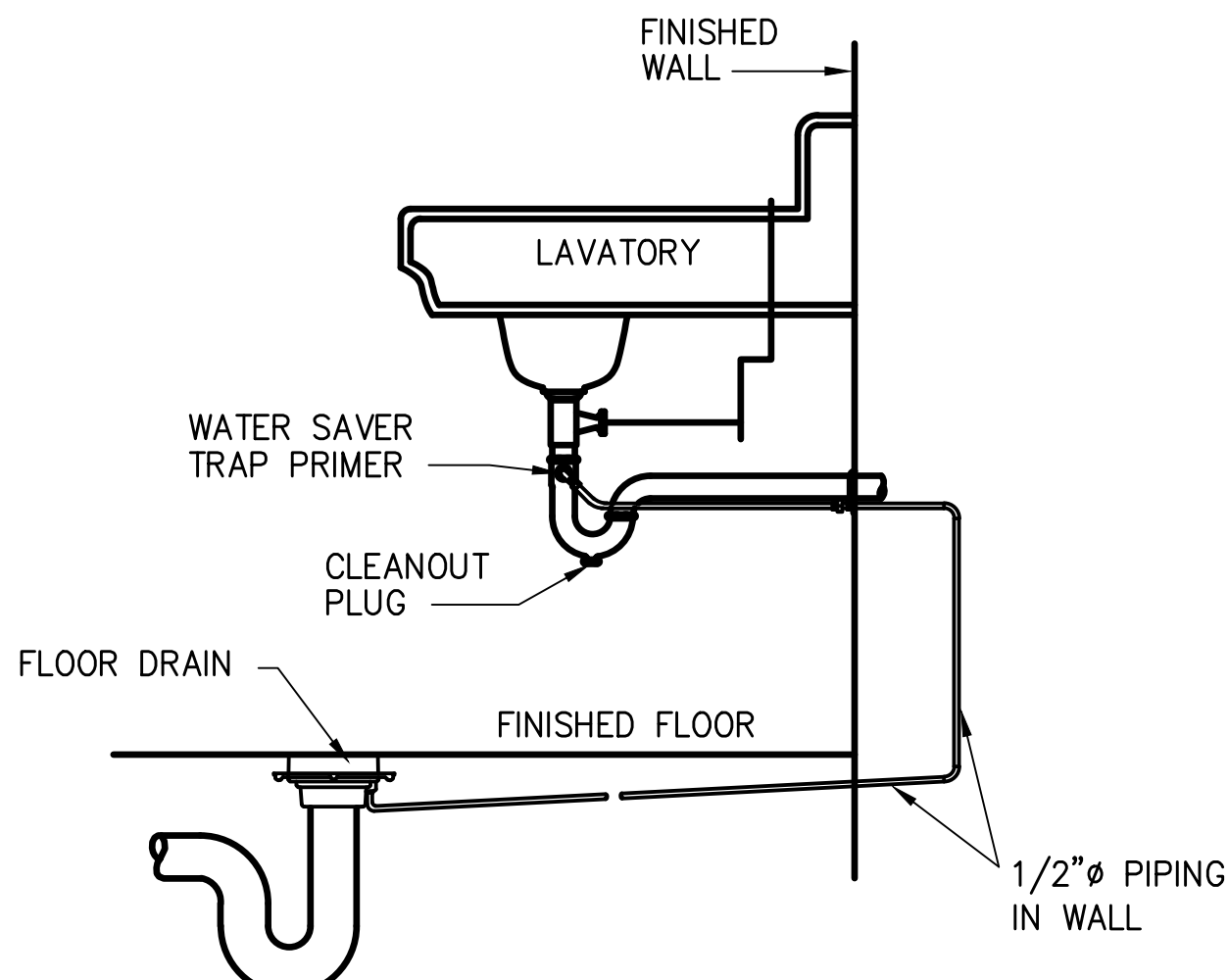
3 PIPE HANGER DETAIL NTS

* CONTRACTOR OPTION:
MICHIGAN HANGER #403

7 ACID WASTE NEUTRALIZATION BASIN NTS



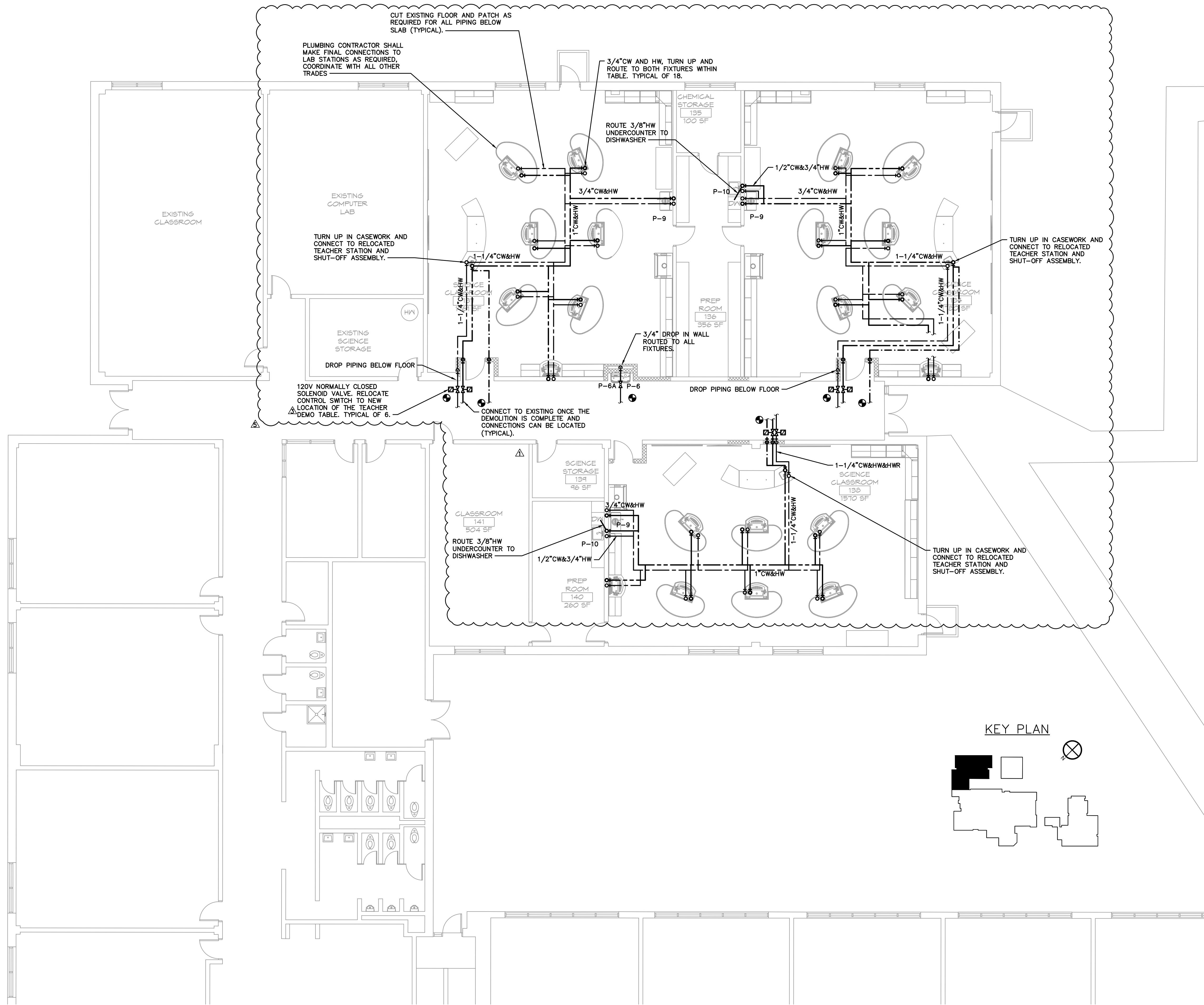
4 FLOOR CLEANOUT DETAIL NTS



1 TRAP PRIMER DETAIL NTS

TYPICAL FOR FLOOR DRAINS IN
TOILETS AND JANITORS CLOSET

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1 SCIENCE BUILDING FLOOR PLAN – PLUMBING WATER RENOVATION
SCALE: 1/8" = 1'-0"

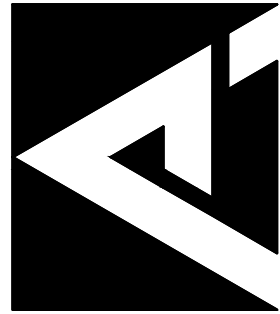
KEY PLAN

REVISION SCHEDULE	
NO.	DATE
1	9/20/23
2	10/20/23
3	11/03/23
4	07/31/24
5	09/20/25

ADDITIONS & RENOVATIONS
GATES COUNTY HIGH SCHOOL
GATESVILLE, NC

SCIENCE CLASSROOMS PLUMBING -
WATER NEW WORK

ISSUE DATE: 2/24/25
DRAWN BY: JA/BD/JP
CHECKED BY: SC
PROJECT:



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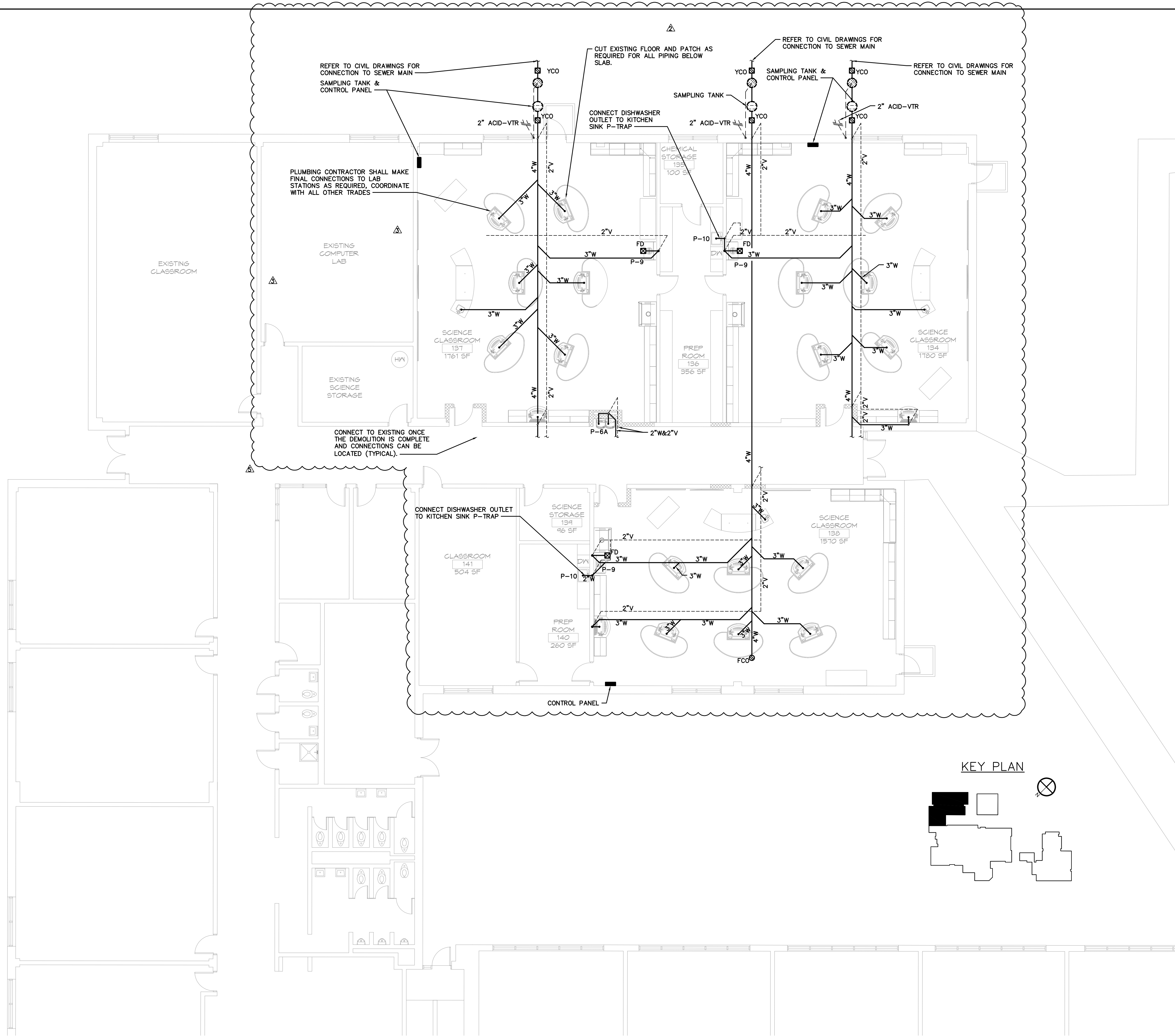


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1 SCIENCE BUILDING FLOOR PLAN – WASTE – RENOVATION
SCALE: 1/8" = 1'-0"

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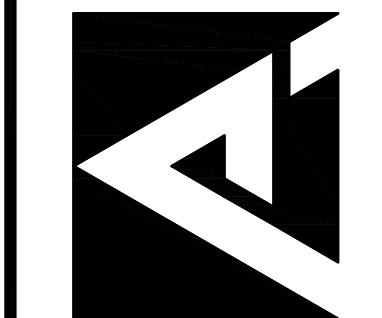
REVISION SCHEDULE	
NO.	DATE
1	9/20/23
2	10/20/23
3	11/03/23
4	07/31/24
5	05/20/25

REFERENCE
DPI COMMENTS
ADDENDUM #1
PRE-BID REVISION
REVISION #1
SCIENCE LAB

ADDITIONS & RENOVATIONS
GATES COUNTY HIGH SCHOOL
GATESVILLE, NC

SCIENCE CLASSROOMS PLUMBING -
WASTE NEW WORK

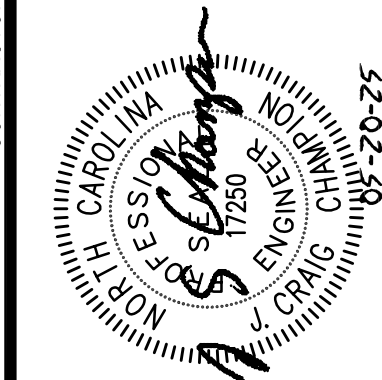
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PROFESSIONAL ASSOCIATION

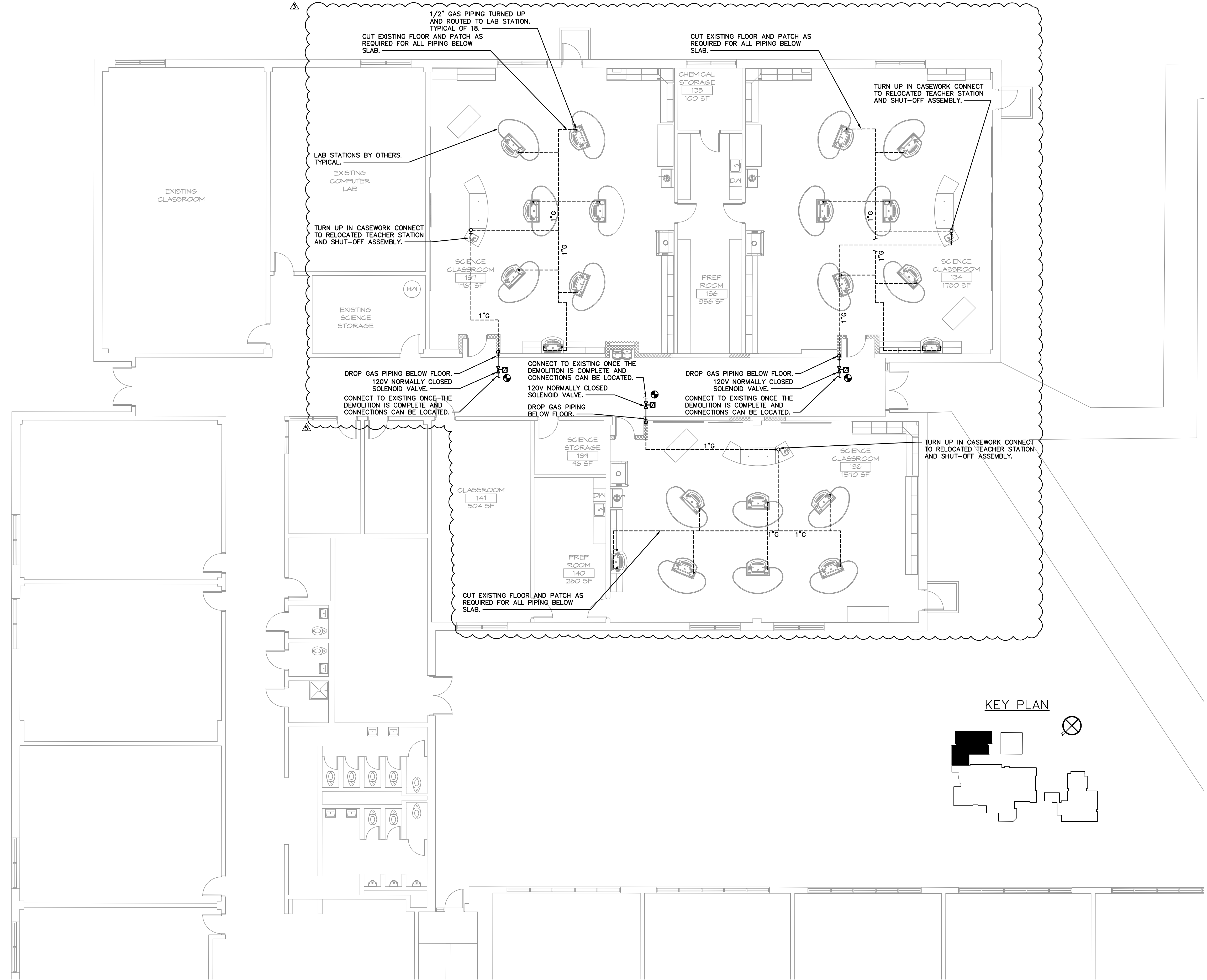
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23-018



1 SCIENCE BUILDING FLOOR PLAN – PLUMBING GAS RENOVATION
SCALE: 1/8" = 1'-0"

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ISSUE DATE: 2/24/25
DRAWN BY: JAY/BD/JP
CHECKED BY: SC
PROJECT:

**ADDITIONS & RENOVATIONS
GATES COUNTY HIGH SCHOOL
GATESVILLE, NC
SCIENCE CLASSROOMS PLUMBING -
GAS NEW WORK**

REVISION SCHEDULE

NO.	DATE	REFERENCE
1	9/20/23	DPI COMMENTS
2	10/20/23	ADDENDUM #1
3	11/03/23	PRE-BID REVISION
4	07/31/24	REVISION #1
5	09/20/25	SCIENCE LAB

P500

CONTRACTOR TO VERIFY ALL DIMENSIONS

ELECTRIC HEATER SCHEDULE									
Unit Tag	Area Served	Type	CFM	Watts	Volts	Phase	Markel Model	Power Source	Remarks
EWH-1	SEE PLANS	WALL HEATER	175	1,500	277	1	G3323TD-RP	NORMAL	1-5
EWH-2	SEE PLANS	WALL HEATER	175	1,500	277	1	G3323TD-RP	NORMAL	1-5
EWH-3	SEE PLANS	WALL HEATER	175	1,500	277	1	G3323TD-RP	NORMAL	1-5
EWH-4	BOYS LOCKER STORAGE	WALL HEATER	175	1,500	277	1	G3323TD-RP	NORMAL	1-5
EWH-5	GIRLS LOCKER STORAGE	WALL HEATER	175	1,500	277	1	G3323TD-RP	NORMAL	1-5

- REFER TO APPROVED MANUFACTURER LIST FOR ACCEPTABLE EQUAL MANUFACTURERS. COORDINATE POWER REQUIREMENTS FOR ALL SUBSTITUTIONS.
- PROVIDE MANUFACTURER'S DISCONNECT.
- COORDINATE POWER SOURCE WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.
- COORDINATE MOUNTING FRAME REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. UNIT MAY REQUIRE SURFACE MOUNT, OR SEMI-RECESS MOUNT DEPENDING ON WALL RATING AND REQUIRED CLEARANCES.
- PROVIDE MANUFACTURER'S INTEGRAL THERMOSTAT, SET TO 45°F FOR FREEZE PROTECTION.
- MANUFACTURER'S FIELD INSTALLED THERMOSTAT, SET TO 45°F FOR FREEZE PROTECTION.

WALL LOUVER SCHEDULE									
Unit Tag	Equipment Served	CFM	PD (in.)	Free Area (sq. ft.)	Gross Dimensions		Function	Model	Remarks
					Length (in.)	Height (in.)			
L-1	EF-1, EF-2	400	.08	0.57	18	12	EXHAUST	ELF-6375DXD	1-9
L-2	EF-3	50	.08	0.36	12	12	EXHAUST	ELF-6375DXD	1-9
L-3	EF-4	50	.08	0.36	12	12	EXHAUST	ELF-6375DXD	1-9

- BASIS OF DESIGN IS RUSKIN, REFER TO APPROVED MANUFACTURER LISTING FOR EQUALS.
- SUBMIT MATERIAL LIST OF ITEMS, MANUFACTURER'S SPECIFICATIONS, PHYSICAL PRODUCT SAMPLES, FINISH SWATCHES, AND MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR REVIEW.
- PRESSURE DROP LISTED IS MAXIMUM ALLOWED.
- PROVIDE ALL 6063 ALUMINUM CONSTRUCTION, MINIMUM 0.081" THICKNESS AND FABRICATE FROM EXTRUDED OR ROLL-FORMED ON 5. 6" LOUVER DEPTH WITH 5-3/32" BLADE CENTERS AND MANUFACTURER'S STANDARD BLADE ANGLE.
- ALUMINUM BRDSCREEN.
- KYNAR FINISH, COLOR SELECTED BY ARCHITECT.
- LOUVER SHALL BE LISTED FOR AMCA 540 IMPACT TEST.
- LOUVER SHALL BE LISTED FOR AMCA 550 HIGH VELOCITY WIND DRIVEN RAIN TEST.

GRILLE & DIFFUSER SCHEDULE									
SYM	TYPE	USE	CFM RANGE	NECK SIZE	OVER-ALL SIZE	FINISH	FRAME	PRICE MODEL NO	REMARKS
A--	LOUVER FACE	SUPPLY 4-WAY	SEE PLANS & RMK 5	RMK 5	RMK 4	OFF WHITE	RMK 3	SMDA	1-6
B--	PERF.	RETURN/ EXHAUST	SEE PLANS & RMK 6	RMK 7	RMK 4	OFF WHITE	RMK 3	PDDR	1-4, 7-10
C-	SIDEWALL	SUPPLY	SEE PLANS	SEE PLANS	RMK 4	RMK 12	SEE PLANS	520D	1-4, 9, 11-13
D-	SIDEWALL	RETURN/ EXHAUST	SEE PLANS	SEE PLANS	RMK 4	RMK 12	SEE PLANS	530	1-4, 9, 12, 13
EX	EXISTING	RETURN/ EXHAUST	SEE PLANS	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	12

REMARKS

- EQUALS: METALAIRE, TITUS, KRUEGER, TUTTLE & BAILEY, NAIL-OR, CARNES. SCHEDULE IS GENERAL, SOME MAY NOT BE USED. PAINT ALL INSIDE VISIBLE SURFACES FLAT BLACK.

2. SYMBOL EXPLANATION:

XXX/CFM = SYMBOL, FRAME (RMK 3), NECK (RMK 5,7)/CFM

3. FRAME TYPES:

S = FLUSH SURF. MTD..

T = T-BAR

PLASTER FRAME FOR

E = DUCT MOUNTED: V-BEVELED

CEILING MOUNTING.

DROP SURF. (TYPE "A" DIFFUSER)

D = DROPPED FRAME

NOTE: VERIFY FRAME/CEILING COMPATIBILITY.

4. OVERALL SIZE: LAY-IN = 2'x2', OTHER GRILLES = NECK + 2" +/-.

5. LOUVER FACE SUPPLY NECK SIZES

NO.	ROUND NK SIZE	CFM	NO.	SQUARE NK SIZE	CFM
A	6"	100	H	6x6	125
B	8"	175	I	9x9	280
C	10"	275	J	12x12	500
D	12"	400	K	15x15	780
E	14"	535	L	18x18	1125
F	16"	700	M	21x21	1530
G	18"	885	N	24x24	2000

NOTE: VERIFY CFM / NECK SIZE.

6. ADJUSTABLE: HORIZONTAL/VERTICAL - "PIANO HINGE" DEVICE.

7. "B" & "E" EXH/RETURN NECK SIZES ("E" = SQ. NK. ONLY)

NO.	ROUND NK SIZE	CFM	NO.	SQUARE NK SIZE	CFM
A	6"	100	G	8x8	220
B	8"	175	H	10x10	345
C	10"	275	I	12x12	500
D	12"	400	J	14x14	680
E	14"	535	K	16x16	885
F	16"	700	L	18x18	1125

NOTE: VERIFY

CFM / NECK SIZE.

M

N

22x46

2600

8. NO NECK SIZE INDICATES NON-

DUCTED, LAY-IN PANEL.

9. OBD IF USED AS SUPPLY OR EXHAUST.

10. ALL ALUM. CONSTRUCTION (INCLUDING

BACKPAN) IF SHOWN ON PLANS.

11. VOLUME EXTRACTOR WHERE

SHOWN ON PLANS.

12. PAINT TO MATCH WALL.

13. VERTICAL FRONT BLADES.



FAN SCHEDULE														
Unit Tag	Area Served	CFM	ESP (IN.)	Fan RPM	Sones	Drive	BHP	HP (Watts)	Volts	Phase	Type	Model	Weight (lbs)	Remarks
EF-1	MEN TOILETS	200	0.25	854	2	DIRECT	0.02	(83)	115	1	CEILING MOUNTED EXHAUST	SP-A250	24	1,2,9
EF-2	WOMEN TOILETS	200	0.25	854	2	DIRECT	0.02	(83)	115	1	CEILING MOUNTED EXHAUST	SP-A250	24	1,2,9
EF-3	SINGLE TOILET NEW BLDG	50	0.25	772	0.3	DIRECT	-	(9)	115	1	CEILING MOUNTED EXHAUST	SP-A90	12	1,2,9
EF-4	SINGLE TOILET ART BLDG	50	0.25	772	0.3	DIRECT	-	(9)	115	1	CEILING MOUNTED EXHAUST	SP-A90	12	1,2,9
EF-5	SCIENCE CLASSROOM	1,725	0.25	1053	9.1	DIRECT	0.24	1/2	115	1	ROOF	GB-140-VG	73	1-5,9
EF-6	FUME HOOD	842	0.25	829	6.5	BELT	0.08	1/4	115	1	UTILITY SET	USF-13-B7	208	1,10-14
EF-7	FUME HOOD	842	0.25	911	6.5	BELT	0.10	1/4	115	1	UTILITY SET	USF-13-B7	208	1,10-14
EF-8	SCIENCE CLASSROOM	1,725	0.25	1053	9.1	DIRECT	0.24	1/2	115	1	ROOF	GB-140-VG	73	1-5,9
EF-9	SCIENCE CLASSROOM	1,550	0.25	970	8	DIRECT	0.19	1/2	115	1	ROOF	GB-140-VG	73	1-5,9
EF-10	FUME HOOD	842	0.25	829	6.5	BELT	0.08	1/4	115	1	UTILITY SET	USF-13-B7	208	1,10-14

- REFER TO APPROVED MANUFACTURER LIST FOR ACCEPTABLE EQUAL MANUFACTURERS. COORDINATE POWER REQUIREMENTS FOR ALL SUBSTITUTIONS.
- STARTER BY E.C. / DISCONNECT BY MFG.
- PROVIDE BIRDSCREEN AND BACKDRAFT DAMPER.
- PROVIDE MANUFACTURER'S ROOF CURB.
- PROVIDE 277V STEP-DOWN TRANSFORMER AS REQUIRED.
- UNIT MOUNTED SOLID STATE SPEED CONTROL.
- INTERLOCK WITH SPACE LIGHTING CONTROLS, COORDINATE WITH ELECTRICAL CONTRACTOR.
- WALL MOUNTED THERMOSTAT, COORDINATE WITH ELECTRICAL CONTRACTOR.
- PROVIDE WALL SWITCH, COORDINATE WITH ELECTRICAL CONTRACTOR.
- FAN CONTROLLED BY FUME HOOD SWITCH. COORDINATE WITH FUME HOOD PROVIDER.
- VERIFY FAN INLET/OUTLET SIZE, TRANSITION TO FIRST DUCT SIZE IF NECESSARY.
- DISCONNECT SWITCH (NEMA TYPE 3R OR PLUG) BY MFG. FOR ALL SINGLE PHASE MOTORS (U.N.O.).
- LISTED SONES IS MAX ALLOWED. FANS MUST BE AMCA CERTIFIED FOR AIR AND SOUND.
- EXPLOSION PROOF CONSTRUCTION.

OUTSIDE AIR CALCULATION - AHU-1-SCIENCE BUILDING												
ROOM NAME	AREA TYPE	FLOOR AREA (SQ FT)	OA CFM/SQFT	EA CFM/SQFT	EA CFM PER FIXTURE	EA NUMBER OF FIXTURE	DEFAULT OCCUPANT DENSITY #/1000 SQ FT	DEMAND CONTROL VENTILATION REQUIRED?	# OF PEOPLE PER SPACE	PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE (CFM/PERSON)	OUTSIDE AIR PER SPACE (CFM)	EXHAUST AIR PER SPACE (CFM)
104 EX. CORRIDOR	CORRIDORS	1111	0.06	0	0		0	NO	0	0	70	0
319 EX. CLASSROOM	CLASSROOMS (AGES 9 PLUS)	811	0	0	0		35	YES	28	7.5	210	0
318 EX. CLASSROOM	CLASSROOMS (AGES 9 PLUS)	811	0	0	0		35	YES	28	7.5	210	0
315 EX. CLASSROOM	CLASSROOMS (AGES 9 PLUS)	811	0	0	0		35	YES	28	7.5	210	0
EX. COUNSELOR	CONFERENCE ROOMS	180	0.06	0	0		50	NO	9	5	60	0

TOTAL OUTSIDE AIR CALCULATON (V _{bd}) =	760	0
ZONE DISTRIBUTION EFFECTIVENESS (E _z) =	0.8	
ZONE OUTDOOR AIRFLOW RATE (V _{oz}) =	950	

OUTSIDE AIR CALCULATION - AHU-2 - SCIENCE BUILDING												
ROOM NAME	AREA TYPE	FLOOR AREA (SQ FT)	OA CFM/SQFT	EA CFM/SQFT	EA CFM PER FIXTURE	EA NUMBER OF FIXTURE	DEFAULT OCCUPANT DENSITY #/1000 SQ FT	DEMAND CONTROL VENTILATION REQUIRED?	# OF PEOPLE PER SPACE	PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE (CFM/PERSON)	OUTSIDE AIR PER SPACE (CFM)	EXHAUST AIR PER SPACE (CFM)
320 EX. SCIENCE CLASSROOM	SCIENCE LABORATORIES	1310	0.18	0	0		25	YES	33	10	570	0
317 EX. SCIENCE CLASSROOM	SCIENCE LABORATORIES	1310	0.18	0	0		25	YES	33	10	570	0
316 EX. SCIENCE CLASSROOM	SCIENCE LABORATORIES	1310	0.18	0	0		25	YES	33	10	570	0
311 EX. COMPUTER CLASS RM	COMPUTER LAB	796	0.12	0	0		25	YES	20	10	300	0
310 EX. CLASSROOM	CLASSROOMS (AGES 9 PLUS)	1177	0	0	0		35	YES	41	7.5	310	0
313 EX. SCIENCE STORAGE	STORAGE ROOMS	222	0.12	0	0		0	NO	0	0	30	0
312 EX. WORKROOM	OFFICE SPACES	205	0.06	0	0		10	NO	2	5	20	0
114 EX. STORAGE	STORAGE ROOMS	67	0.12	0	0		0	NO	0	0	10	0
TOILET PLAN NORTH	TOILET ROOMS - PUBLIC	34	0	0	50	1	0	NO	0	0	0	50
TOILET PLAN SOUTH	TOILET ROOMS - PUBLIC	34	0	0	50	1	0	NO	0	0	0	50

TOTAL OUTSIDE AIR CALCULATION (V _{bd}) =	2380	100
ZONE DISTRIBUTION EFFECTIVENESS (E _z) =	0.8	
ZONE OUTDOOR AIRFLOW RATE (V _{oz}) =	2980	

OUTSIDE AIR CALCULATION - AHU-3 - SCIENCE BUILDING												
ROOM NAME	AREA TYPE	FLOOR AREA (SQ FT)	OA CFM/SQFT	EA CFM/SQFT	EA CFM PER FIXTURE	EA NUMBER OF FIXTURE	DEFAULT OCCUPANT DENSITY #/1000 SQ FT	DEMAND CONTROL VENTILATION REQUIRED?	# OF PEOPLE PER SPACE	PEOPLE OUTDOOR AIRFLOW RATE IN BREATHING ZONE (CFM/PERSON)	OUTSIDE AIR PER SPACE (CFM)	EXHAUST AIR PER SPACE (CFM)
309 EX. CLASSROOM	CLASSROOMS (AGES 9 PLUS)	810	0	0	0		35	YES	28	7.5	210	0
308 EX. CLASSROOM	CLASSROOMS (AGES 9 PLUS)	795	0	0	0		35	YES	28	7.5	210	0
301A EX. CLASSROOM	CLASSROOMS (AGES 9 PLUS)	800	0	0	0		35	YES	28	7.5	210	0
301 EX. CLASSROOM	CLASSROOMS (AGES 9 PLUS)	767	0	0	0		35	YES	27	7.5	200	0
103 EX. CORRIDOR	CORRIDORS	794	0.06	0	0		0	NO	0	0	50	0
110 EX. WOMEN	TOILET ROOMS - PUBLIC	203	0	0	50	5	0	NO	0	0	0	250
109 EX. MEN	TOILET ROOMS - PUBLIC	257	0	0	50	5	0	NO	0	0	0	250
102 EX. COMMONS	LOBBIES/PREFUNCTION	2512	0.06	0	0		30	YES	75	7.5	710	0

TOTAL OUTSIDE AIR CALCULATION (V _{bd}) =	1590	500
ZONE DISTRIBUTION EFFECTIVENESS (E _z) =	0.8	
ZONE OUTDOOR AIRFLOW RATE (V _{oz}) =	1990	

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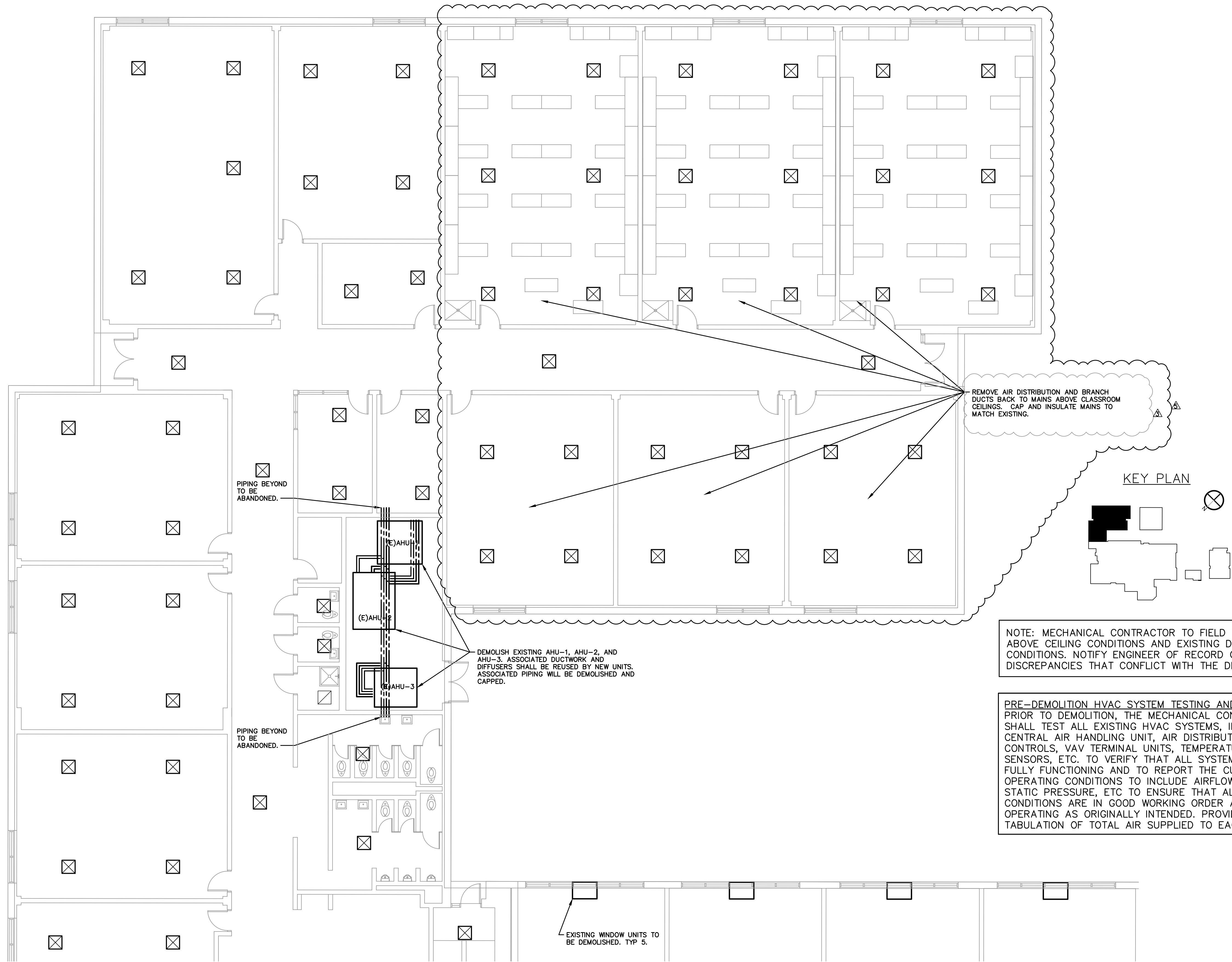
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ADDITIONS & RENOVATIONS
GATES COUNTY HIGH SCHOOL
GATESVILLE, NC
MECHANICAL SCHEDULES

REVISION	DATE	REFERENCE
ADD	9/20/23	DPI COMMENTS
ADD	10/20/23	ADDENDUM #1
ADD	11/03/23	PRE-BID REVISION
ADD	07/31/24	REVISION #1
ADD	09/20/25	SCIENCE LAB

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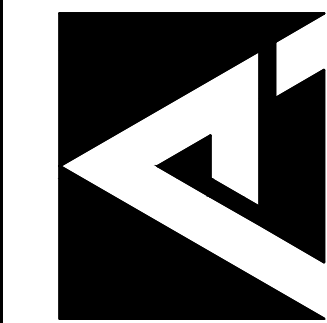
1 SCIENCE BUILDING FLOOR PLAN – MECHANICAL DEMOLITION
SCALE: 1/8" = 1'-0"

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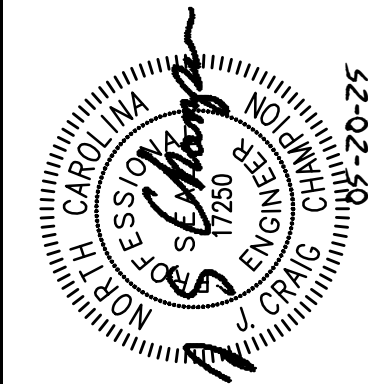
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ADDITIONS & RENOVATIONS
GATES COUNTY HIGH SCHOOL
GATESVILLE, NC
SCIENCE CLASSROOMS MECHANICAL
DEMOLITION



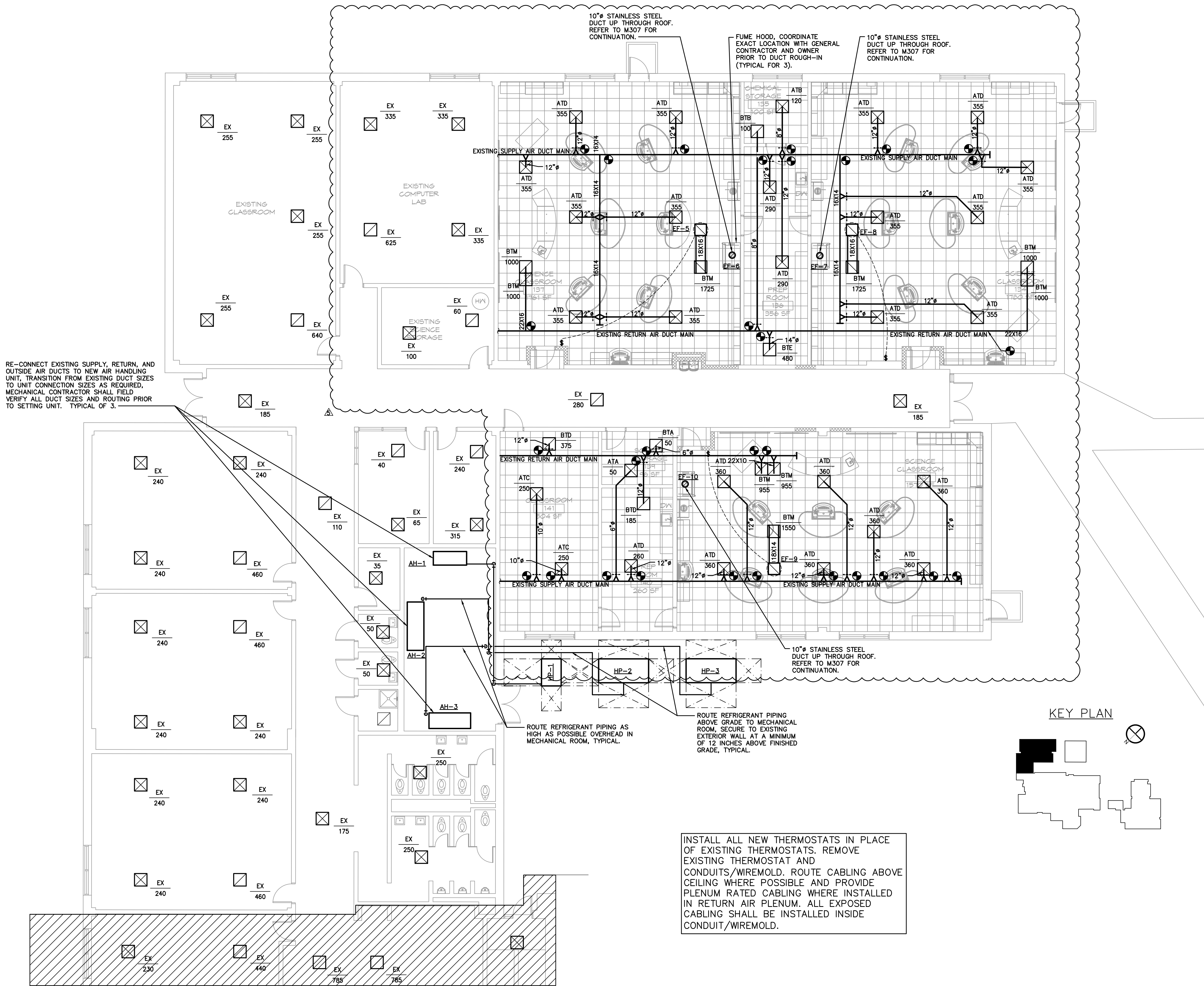
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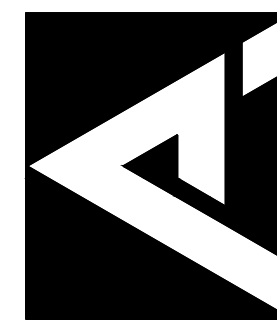
1 SCIENCE BUILDING FLOOR PLAN – MECHANICAL RENOVATION
SCALE: 1/8" = 1'-0"

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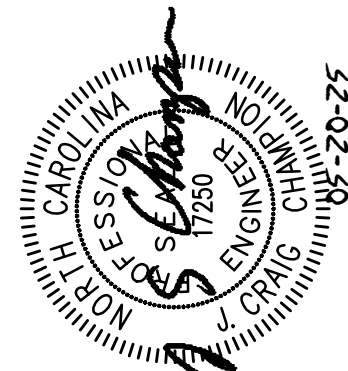
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SCIENCE CLASSROOMS MECHANICAL
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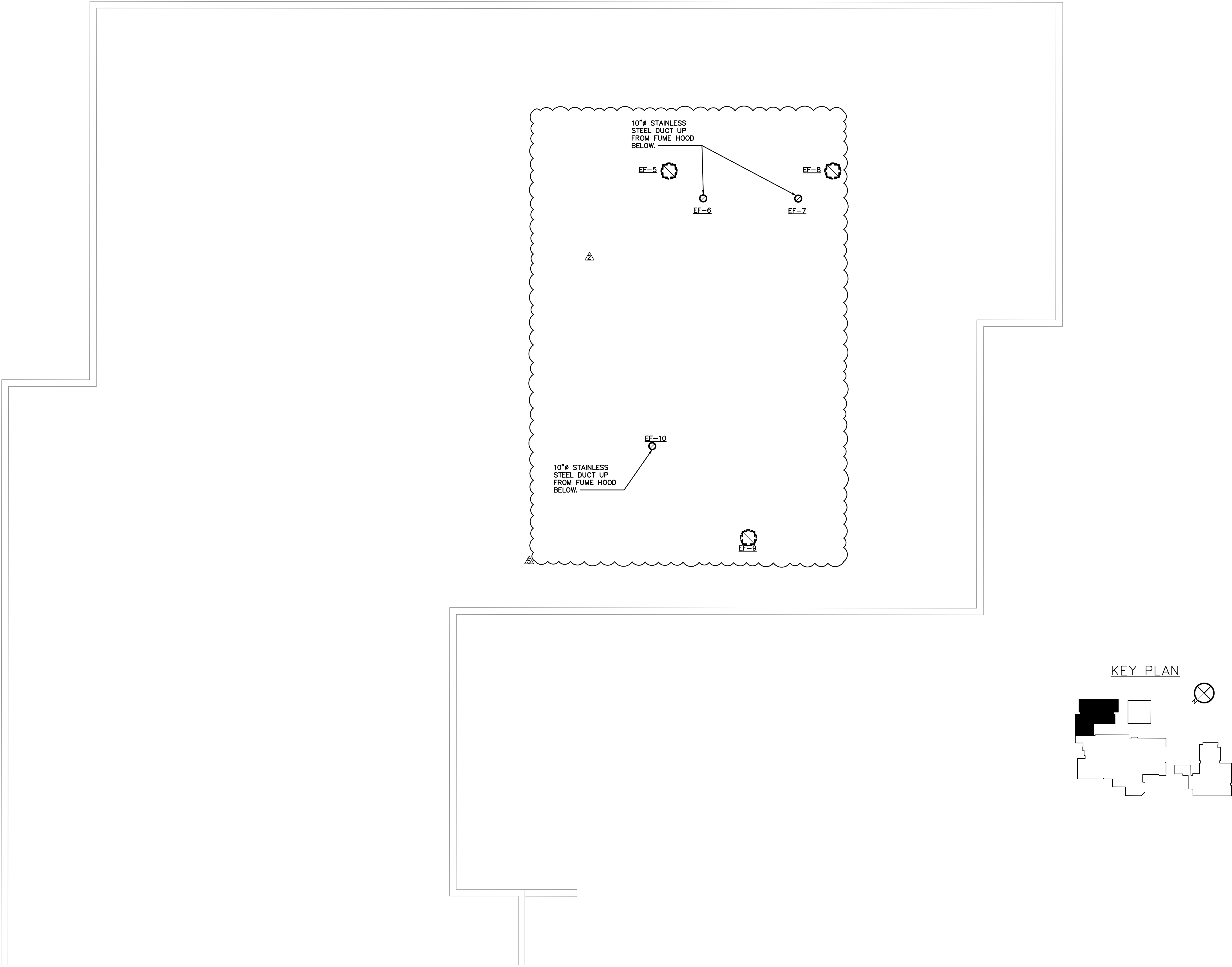


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SCIENCE BUILDING ROOF PLAN — MECHANICAL RENOVATION

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



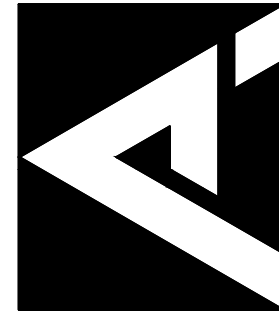
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ADDITIONS & RENOVATIONS
GATES COUNTY HIGH SCHOOL
GATESVILLE, NC

SCIENCE CLASSROOMS MECHANICAL
ROOF PLAN

REVISION SCHEDULE		
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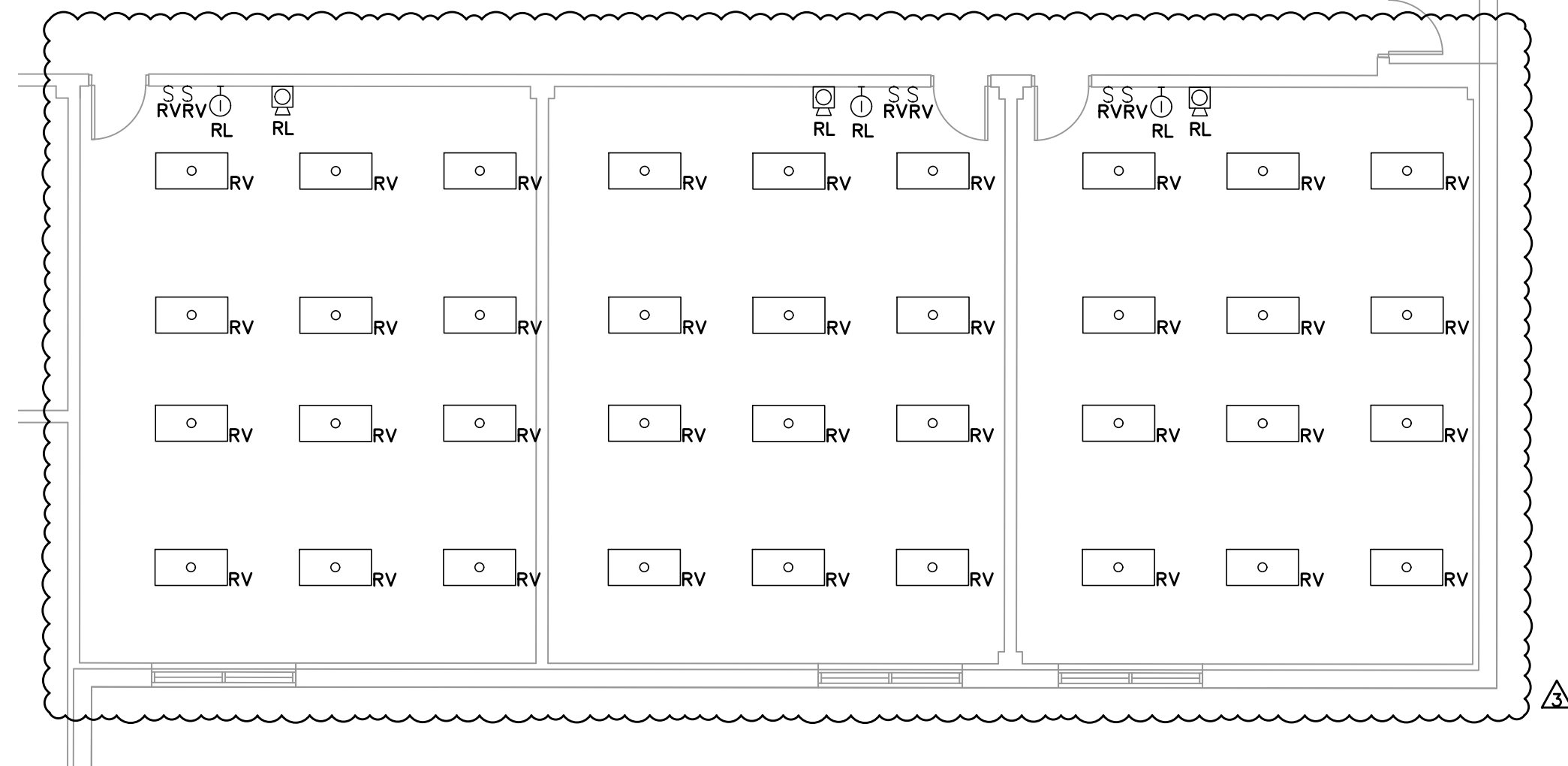
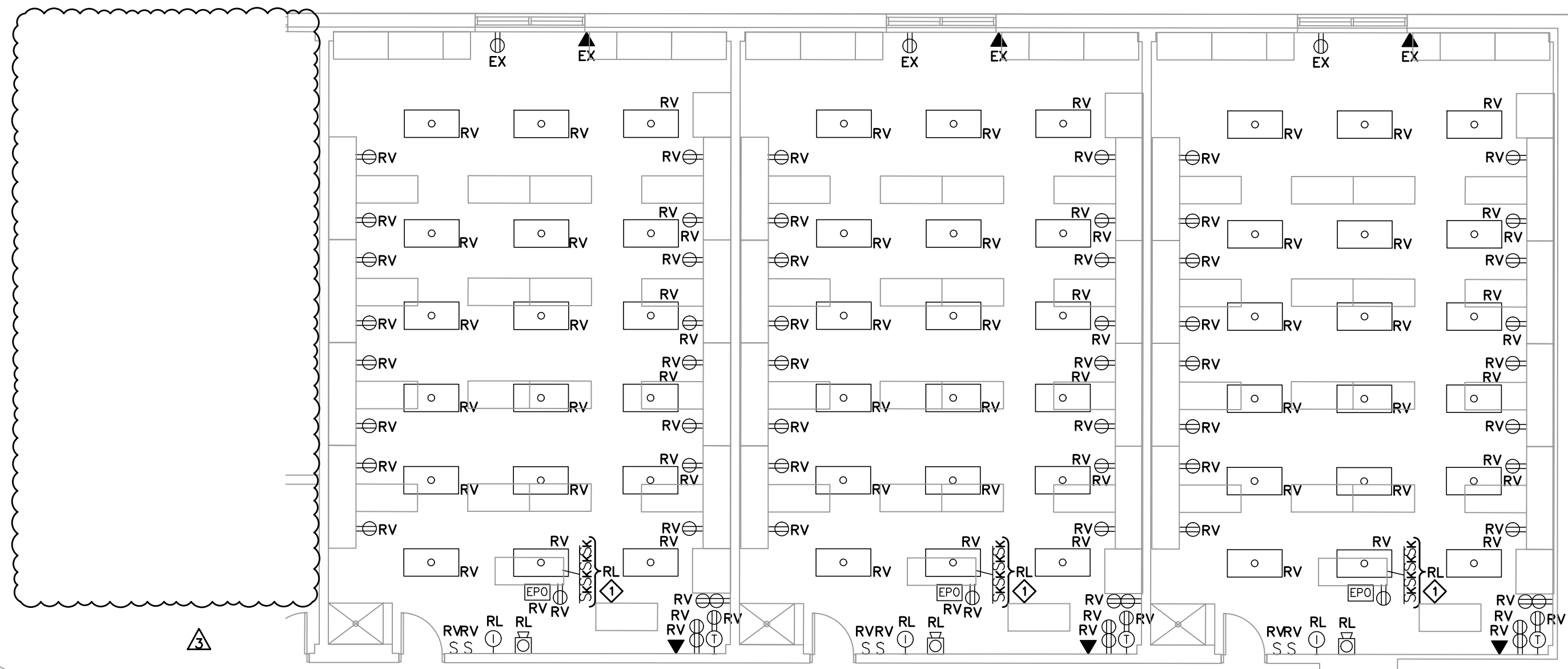
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CONTRACTOR TO VERIFY ALL DIMENSIONS

1. ELECTRICAL MATERIALS WHICH ARE BEING REMOVED, UNLESS OTHERWISE INDICATED, SHALL BE COME THE PROPERTY OF THE CONTRACTOR.
2. ALL ABANDONED CONDUITORS SHALL BE REMOVED BACK TO POINT OF SUPPLY.
3. WHERE ACCESSIBLE, ALL ABANDONED CONDUIT SHALL BE REMOVED. ALL CONDUIT REMAINING SHALL BE MECHANICALLY SECURED.
4. WHERE DEVICES ARE REMOVED, CIRCUIT WIRING AND CONDUIT SHALL BE RE-WIRING AS REQUIRED TO PERMIT REMAINING DEVICES TO CONTINUE TO FUNCTION AS NECESSARY.
5. ALL EXISTING ELECTRICAL DEVICES AND EQUIPMENT NOT SHOWN AS BEING ABANDONED SHALL BE RECONNECTED.
6. MATERIALS NOTED TO BE REUSED IN THE NEW WORK SHALL BE CLEANED, REPAIRED, STORED AND PROTECTED ON THE SITE.
7. TEMPORARY CONNECTIONS SHALL BE PROVIDED TO ALLOW UNINTERRUPTED SERVICE DURING THE PERIOD OF CONSTRUCTION EXCEPT AS NOTED. ALL TEMPORARY WORK SHALL BE SCHEDULED AND MUST HAVE PRIOR APPROVAL FROM THE OWNER.
8. RELOCATE ANY EXISTING CONDUITS, CONDUCTORS, FIXTURES AND OUTLETS AS INDICATED BY THE DRAWINGS.
9. BACKBOXES OF OUTLETS AND SWITCHES SHOULD TO BE REMOVED FROM WALLS AND FLOORS REMOVING SHALL BE REMOVED AND THE WALLS AND FLOORS PROPERLY PATCHED.
10. WHERE NEW WALL FINISHES REQUIRE ADDITIONAL BOX DEPTH, PROVIDE OUTLET BOX EXTENSIONS OF THE NECESSARY DEPTH.
11. ALL ELECTRICAL PANELS AFFECTED BY THIS WORK SHALL HAVE THEIR PANEL DIRECTORY UPDATED. THE CONTRACTOR SHALL PROVIDE A TYPED UPDATED PANEL DIRECTORY FOR EVERY PANEL WHERE ELECTRICAL LOAD IS REMOVED OR ADDED BY THIS WORK.

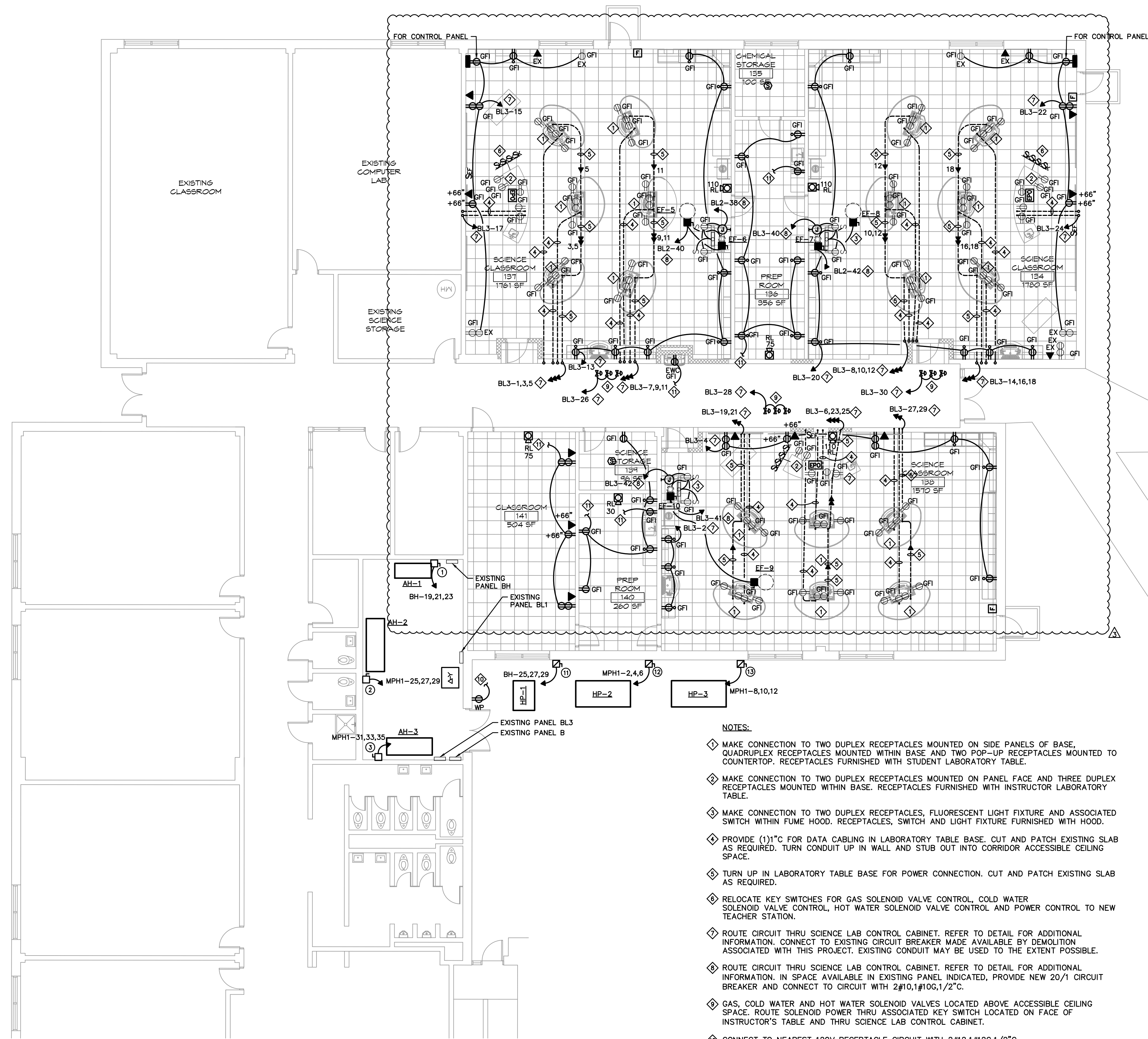


1 SCIENCE BUILDING FLOOR PLAN – DEMOLITION
SCALE: 1/8" = 1'-0"

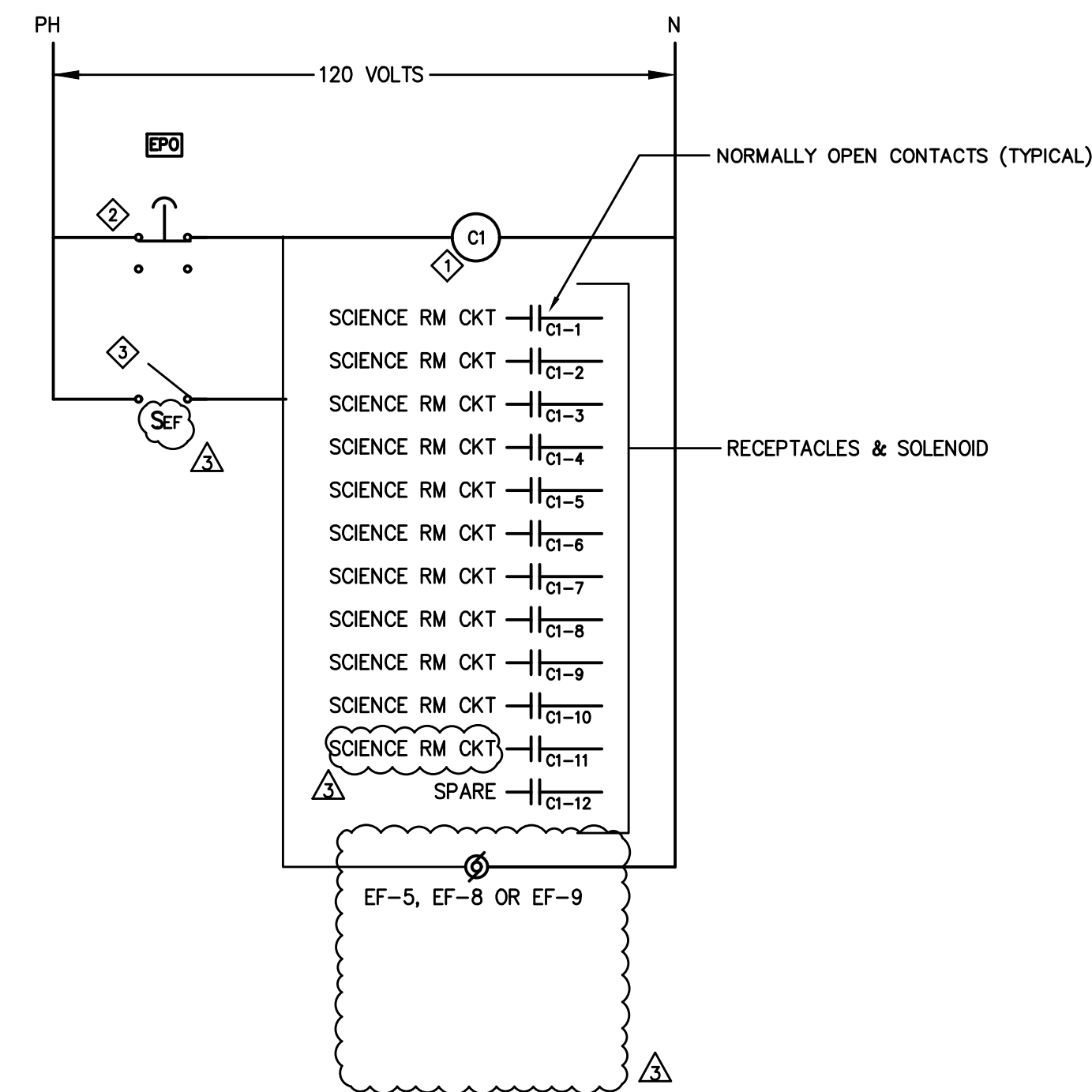
- ① CONNECT TO EXISTING INTERIOR LIGHTING CIRCUIT IN THIS AREA WITH 2#12,1#12G,1/2" C.
- ② CONNECT TO NEAREST EXTERIOR LIGHTING CIRCUIT IN THIS AREA WITH 2#12,1#12G,1/2" C.
NEW LIGHT FIXTURES TO BE CONTROLLED WITH EXISTING EXTERIOR LIGHTS.

① REMOVE ALL RECEPTACLES, DATA OUTLETS, FIRE ALARM DEVICES, INTERCOM DEVICES, LIGHT FIXTURES AND SWITCHES IN THIS AREA.

RV - EXISTING TO BE REMOVED
RL - EXISTING TO BE RELOCATED
EX - EXISTING TO REMAIN
RP - EXISTING TO BE REPLACED



1 SCIENCE BUILDING FLOOR PLAN – ELECTRICAL RENOVATION
SCALE: 1/8" = 1'-0"



2 SCIENCE CLASSROOM POWER CONTROL DIAGRAM
SCALE: NOT TO SCALE

- NOTES:
- 1 ELECTRICALLY HELD CONTACTOR WITH 20A RATED CONTACTS AND 120V COIL. CONTACTOR SHALL BE OPEN TYPE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - 2 PUSHBUTTON SWITCH SHALL BE HEAVY-DUTY, OIL TIGHT, MAINTAINED CONTACT TYPE WITH RED MUSHROOM HEAD. TWIST TO RELEASE, 120V, 20A CONTACTS. PROVIDE PLAQUE ON SWITCH PLATE THAT READS "EMERGENCY POWER OFF".
 - 3 TOGGLE SWITCH, 120V, 20A. PROVIDE WITH PLAQUE ON SWITCH PLATE THAT READS "EXHAUST FAN CONTROL".
 - 4 ROUTE ALL CIRCUITS IN SCIENCE CLASSROOM (EXCEPT LIGHTING AND EXHAUST FANS) THROUGH CONTACTOR C1. ROUTE FAN CIRCUIT THROUGH LOCAL SWITCH "SEF".
 - 5 MOUNT CONTACTOR CABINET ABOVE CEILING IN 6" DEEP NEMA 1 ENCLOSURE WITH HINGED DOOR.

PER 2020 NEC 406.12, ALL NEW 15 AND 20 AMPERE, 125V AND 250V NON-LOCKING TYPE RECEPTACLES IN THIS FACILITY SHALL BE LISTED TAMPER-RESISTANT.

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ADDITIONS & RENOVATIONS
GATES COUNTY HIGH SCHOOL
GATESVILLE, NC

SCIENCE CLASSROOM RENOVATION
POWER PLAN

REVISION SCHEDULE

DATE	REFERENCE
11/03/23	PRE-BID REVISION
07/31/24	REVISION #1
05/20/25	SCIENCE LAB

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