

Additions and Renovations to

West Carteret High School

Carteret County Schools
NCDSP Unit 160 - School 344

4700 Country Club Road / Morehead City / North Carolina

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
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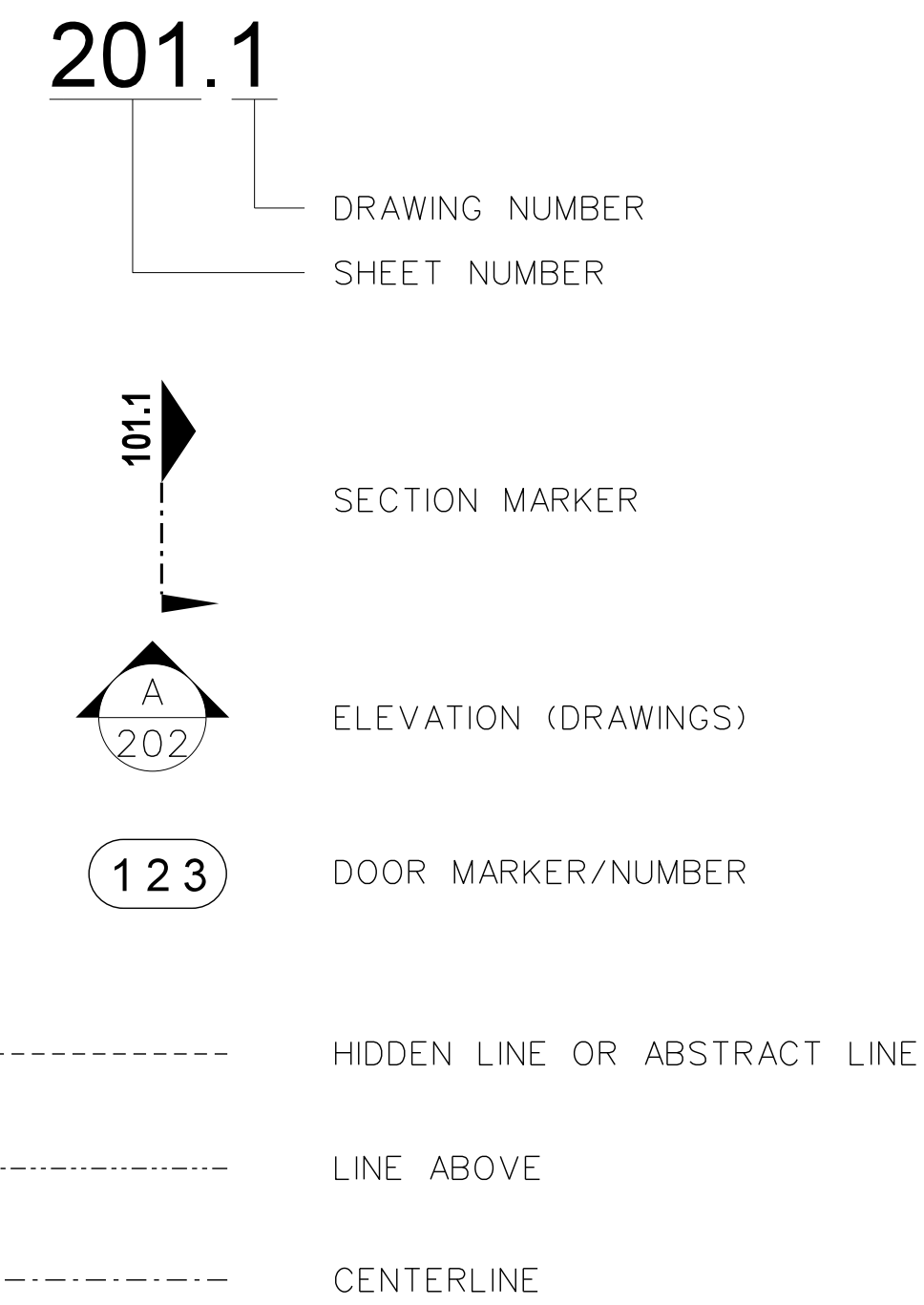
Set Two of Two: PLUMBING - HVAC - ELECTRICAL - TECHNOLOGY

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR	INV	INVERT
L	ANGLE	JT	JOINT
AB	ANCHOR BOLT	LAV	LAVATORY
Ø	AT	MAS	MASONRY
B/B	BACK TO BACK (CURB)	MAX	MAXIMUM
BRG	BEARING	MB	MARKER BOARD
DB	BOARD	MT	METAL
BC	BRICK COURSE	MC	MECHANICAL CONTRACTOR
BLDG	BUILDING	MT	METAL THRESHOLD
CI	CAST IRON	MIN	MINIMUM
CPT	CARPET	MISC	MISCELLANEOUS
CB	CATCH BASIN	NOM	NOMINAL
CLG	CEILING	N	NORTH
CT	CEILING TILE	NIC	NOT IN CONTRACT
CB	CHALKBOARD	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	OC	ON CENTER
CONC	CONCRETE	OPG	OPENING
CWU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
CG	CORNER GUARD	PC	PLUMBING CONTRACTOR
CMP	CORRUGATED METAL PIPE	PLAS	PLASTER
CONT.	CONTINUOUS	PL	PLATE
C & R	CURTAIN & ROD	PT	PRESSURE TREATED
C & T	CURTAIN & TRACK	R	RADIUS
DIA	DIAMETER	REF	REFERENCE
DIM	DIMENSION	RENF	REINFORCED
DS	DOWNSPOUT	RCP	REINFORCE CONCRETE PIPE
DWR	DRAWER	REQ'D	REQUIRED
EA	EACH	RFS	RUBBER FASTENING STRIP
EC	ELECTRICAL CONTRACTOR	RI	RIGID INSULATION
EIFS	EXTERIOR INSULATION & FIN SYSTEM	R/W	RIGHT OF WAY
ELECT	ELECTRICAL	RD	ROOF DRAIN
EWC	ELECTRIC WATER COOLER	RDL	ROOF DRAIN LEADER
ELEV	ELEVATION	RGH	ROUGH
EQ	EQUAL	SCHED	SCHEDULED
ETR	EXISTING TO REMAIN	SH	SHELF
EXIST	EXISTING	SHG	SHEATHING
EXP	EXPOSED, EXPANSION	SIM	SIMILAR
EJ	EXPANSION JOINT	SPEC	SPECIFIED
F/F	FACE TO FACE (CURB)	SPECS	SPECIFICATIONS
FIN	FINISH	STD	STANDARD
FE	FIRE EXTINGUISHER	SUSP	SUSPENDED
FEC	FIRE EXTINGUISHER CABINET	TB	TACKBOARD
FHC	FIRE HOSE CABINET	TYP	TYPICAL
FTG	FOOTING	TJC	TYPICAL CONTROL JOINT
FD	FLOOR DRAIN	UON	UNLESS OTHERWISE NOTED
FL	FLOOR	UR	URNAL
FSR	FLEXIBLE SHEET ROOFING	VB	VAPOR BARRIER
GB	GYPSUM WALLBOARD	VERT	VERTICAL
GC	GENERAL CONTRACTOR	VCT	VINYL COMPOSITION TILE
HM	HOLLOW METAL	WC	WATER CLOSET
HDR	HORIZONTAL	WWF	WELDED WIRE FABRIC
INSUL	INSULATION	W7	WITH

DRAWING SYMBOLS

DRAWING IDENTIFICATION MARKERS



MATERIAL SYMBOLS

	EARTH
	SAND
	MORTAR OR GROUT
	CONCRETE
	BRICK
	CONCRETE MASONRY UNIT
	STEEL
	ROUGH WOOD (CONTINUOUS)
	ROUGH WOOD (INTERMITTENT)
	FINISH WOOD
	PLYWOOD
	BATT OR BLOWN INSULATION
	RIGID INSULATION
	METAL STUD / GYPBOARD WALL

DRAWING INDEX

Set One of Two: CIVIL - ARCHITECTURAL - FOOD SERVICE - STRUCTURAL

T-1	INDEX / LEGEND / ABBREVIATIONS
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BCS-100A	BUILDING CODE SUMMARY
BCS-100B	BUILDING CODE SUMMARY
BCS-200	BUILDING CODE SUMMARY
BCS-500	BUILDING CODE SUMMARY
BCS-800	BUILDING CODE SUMMARY

FRA-001	FIRE RATED ASSEMBLIES
FRA-002	FIRE RATED ASSEMBLIES

LS-001	LIFE SAFETY PLAN FIRST FLOOR
LS-002	LIFE SAFETY PLAN SECOND FLOOR

C-100	OVERALL EXISTING CONDITIONS SITE PLAN
C-200	DEMOLITION PLAN
C-201	DEMOLITION PLAN
C-300	OVERALL SITE PLAN
C-400	SITE GEOMETRY PLAN
C-401	SITE GEOMETRY PLAN
C-402	SITE DETAILS
C-403	SITE DETAILS
C-500	GRADING AND DRAINAGE PLAN
C-501	GRADING AND DRAINAGE PLAN
C-502	GRADING AND DRAINAGE INSET PLAN
C-600	EROSION CONTROL PLAN
C-601	EROSION CONTROL PLAN
C-700	UTILITY PLAN
C-701	UTILITY PLAN
C-800	SITE DETAILS
C-900	GROUND STABILIZATION
C-1000	SELF INSPECTION

PH-001	PHASING PLAN
A-001	OVERALL FLOOR PLANS
A-002	ROOF PLAN
A-003	ROOF DETAILS

A-003-P	ROOF DETAILS (PRE-ENGINEERED ALTERNATE)
A-100	OVERALL DEMOLITION PLAN
A-101	100 UNIT PARTIAL FLOOR PLANS AND FINISH SCHEDULES
A-102	100 UNIT FLOOR PLAN - EXISTING BAND ROOM RENOVATIONS
A-103	100 UNIT PARTIAL REFLECTED CEILING PLAN
A-104	NEW BAND ROOM INTERIOR ELEVATIONS
A-105	NEW BAND ROOM INTERIOR ELEVATIONS
A-106	ENLARGED TOILET PLANS & ELEVATIONS
A-107	ENLARGED TOILET PLANS & ELEVATIONS

A-201	200 UNIT FLOOR PLAN AND FINISH SCHEDULE
A-202	200 UNIT REFLECTED CEILING PLAN
A-203	ENLARGED TOILET PLANS & ELEVATIONS
A-204	ENLARGED TOILET PLANS & ELEVATIONS
A-205	ENLARGED TOILET PLANS & ELEVATIONS

A-301	300 UNIT & 700 UNIT PARTIAL FLOOR PLANS AND FINISH SCHEDULE
A-401	400 UNIT PARTIAL FLOOR PLAN AND FINISH SCHEDULE
A-402	400 UNIT ENLARGED FOOD LABS

A-501	CLASSROOM WING ADDITION FLOOR PLAN & FINISH SCHEDULE
A-502	CLASSROOM WING ADDITION REFLECTED CEILING PLAN
A-503	CLASSROOM WING ADDITION EQUIPMENT PLATFORM PLAN
A-504	ENLARGED SCIENCE CLASSROOM AND INTERIOR ELEVATIONS
A-505	ENLARGED ROTC CLASSROOMS AND INTERIOR ELEVATIONS
A-506	ENLARGED TOILET PLANS & ELEVATIONS

A-801	GYMNASIUM FLOOR PLAN
A-801-P	GYMNASIUM FLOOR PLAN (PRE-ENGINEERED ALTERNATE)
A-802	GYMNASIUM REFLECTED CEILING & EQUIPMENT PLATFORM PLANS
A-803	INTERIOR ELEVATIONS
A-804	INTERIOR ELEVATIONS
A-805	ENLARGED TOILET PLANS & ELEVATIONS

A-901	BAND ROOM ADDITION EXTERIOR ELEVATIONS
A-902	CLASSROOM WING ADDITION EXTERIOR ELEVATIONS
A-903	GYMNASIUM ADDITION EXTERIOR ELEVATIONS
A-903-P	GYMNASIUM ADDITION EXTERIOR ELEVATIONS (PRE-ENGINEERED ALTERNATE)

A-1001	DOOR SCHEDULES AND ELEVATIONS
A-1002	DOOR DETAILS
A-1003	WINDOW DETAILS
A-1004	COLUMN DETAILS

A-1101	BUILDING SECTIONS - BAND ROOM ADDITION
A-1102	WALL SECTIONS AT BAND ROOM ADDITION
A-1103	WALL SECTIONS AT BAND ROOM ADDITION
A-1104	WALL SECTIONS AT CAFETERIA AND BAND ROOM TOILETS
A-1105	WALL SECTION AT RENOVATED LOCKER ROOMS
A-1106	WALL SECTIONS AT NEW ROOMS ADDED TO EXISTING BUILDING
A-1107	BUILDING & WALL SECTIONS AT CLASSROOM WING ADDITION
A-1108	WALL SECTIONS AT CLASSROOM CORRIDOR AND STAIRS
A-1109	WALL SECTIONS AT CLASSROOM ENDWALL AND ADJACENT EXISTING BUILDING
A-1110	WALL SECTION AT NEW CORRIDOR TO CLASSROOM PEDESTRIAN WALKWAY
A-1111	WALL SECTION AT NEW CORRIDOR TO CLASSROOM PEDESTRIAN WALKWAY
A-1112	WALL SECTION AT CLASSROOM WING PEDESTRIAN WALKWAY
A-1113	WALL SECTION AT CLASSROOM WING PEDESTRIAN WALKWAY
A-1114	BUILDING SECTIONS - GYM ADDITION
A-1114-P	BUILDING SECTIONS - GYM ADDITION (PRE-ENGINEERED ALTERNATE)
A-1115	BUILDING SECTION - GYM ADDITION
A-1115-P	BUILDING SECTION - GYM ADDITION (PRE-ENGINEERED ALTERNATE)
A-1116	WALL SECTION AT GYM EAVE
A-1116-P	WALL SECTION AT GYM EAVE (PRE-ENGINEERED ALTERNATE)
A-1117	WALL SECTION AT GYM VESTIBULE
A-1117-P	WALL SECTION AT GYM VESTIBULE (PRE-ENGINEERED ALTERNATE)
A-1118	WALL SECTIONS AT GYM EAVE AND REAR WALL
A-1118-P	WALL SECTIONS AT GYM EAVE AND REAR WALL (PRE-ENGINEERED ALTERNATE)
A-1119	WALL SECTION AT GYM STAIRS
A-1119-P	WALL SECTION AT GYM STAIRS (PRE-ENGINEERED ALTERNATE)
A-1120	WALL SECTION AT GYM ENDWALL
A-1120-P	WALL SECTION AT GYM ENDWALL (PRE-ENGINEERED ALTERNATE)
A-1121	WALL SECTION AT GYM ENDWALL
A-1121-P	WALL SECTION AT GYM ENDWALL (PRE-ENGINEERED ALTERNATE)
A-1122	WALL SECTION AT GYM PEDESTRIAN WALKWAY
A-1123	WALL SECTION AT GYM PEDESTRIAN WALKWAY
A-1124	WALL SECTION AT GYM PEDESTRIAN WALKWAY

A-1201	TERRAZZO FLOOR JOINT LAYOUT PLAN
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K-101	ENLARGED KITCHEN PLAN / EQUIPMENT SCHEDULE / DETAILS
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S-101	GYM & CLASSROOM ADDITION FOUNDATION PLANS
S-102	INTERIOR RENOVATION FOUNDATION PLAN
S-103	BAND ROOM ADDITION FOUNDATION PLAN
S-104	GYM & CLASSROOM ADDITION UTILITY PLATFORM FRAMING PLANS
S-105	GYM & CLASSROOM ADDITION ROOF FRAMING PLANS
S-106	INTERIOR RENOVATION ROOF FRAMING PLAN
S-107	BAND ROOM ADDITION ROOF FRAMING PLAN
S-108	GYM ADDITION FOUNDATION PLAN (METAL BUILDING)
S-109	GYM ADDITION UTILITY PLATFORM FRAMING PLAN (METAL BUILDING)
S-110	GYM ADDITION ROOF FRAMING PLAN (METAL BUILDING)
S-1101	DETAILS
S-1102	DETAILS
S-1103	DETAILS
S-1104	DETAILS
S-1105	DETAILS
S-1106	DETAILS
S-1201	GENERAL NOTES

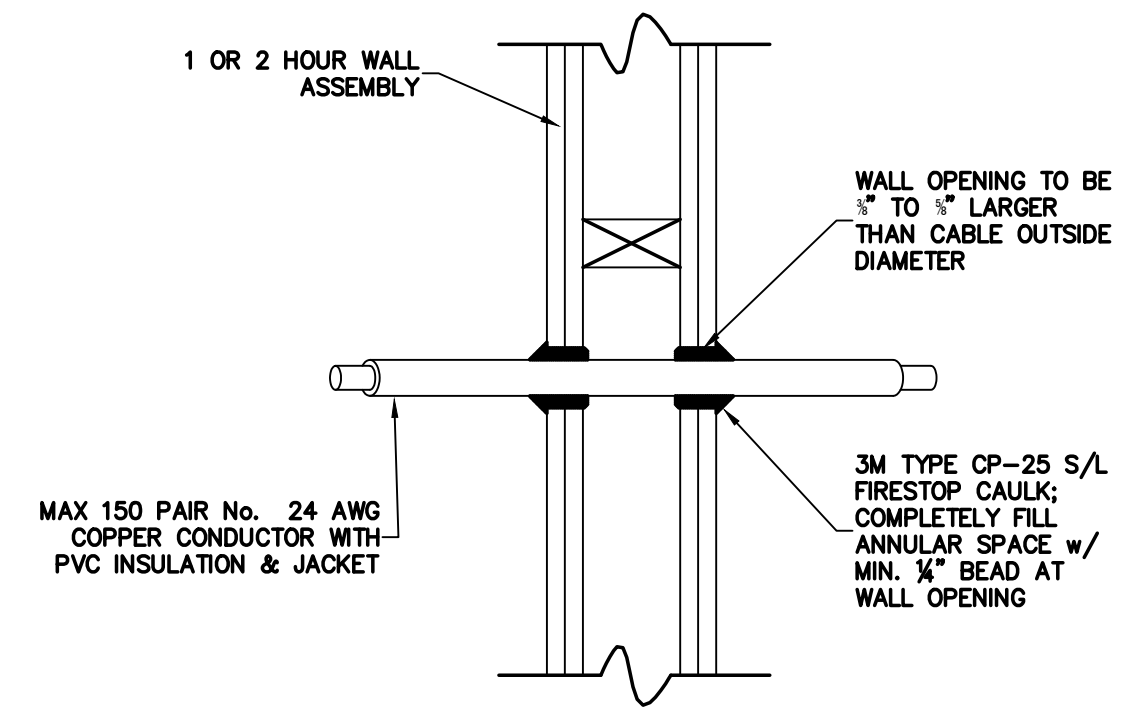
Set Two of Two: PLUMBING - HVAC - ELECTRICAL - TECHNOLOGY

FP001	RATED WATE PENETRATION DETAILS
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FS501	NEW SCIENCE CLASSROOM FIRE SUPPRESSION PLAN
FS502	NEW SCIENCE & GYM PLATFORM FIRE SUPPRESSION PLANS
FS811	NEW GYM FIRE SUPPRESSION PLAN

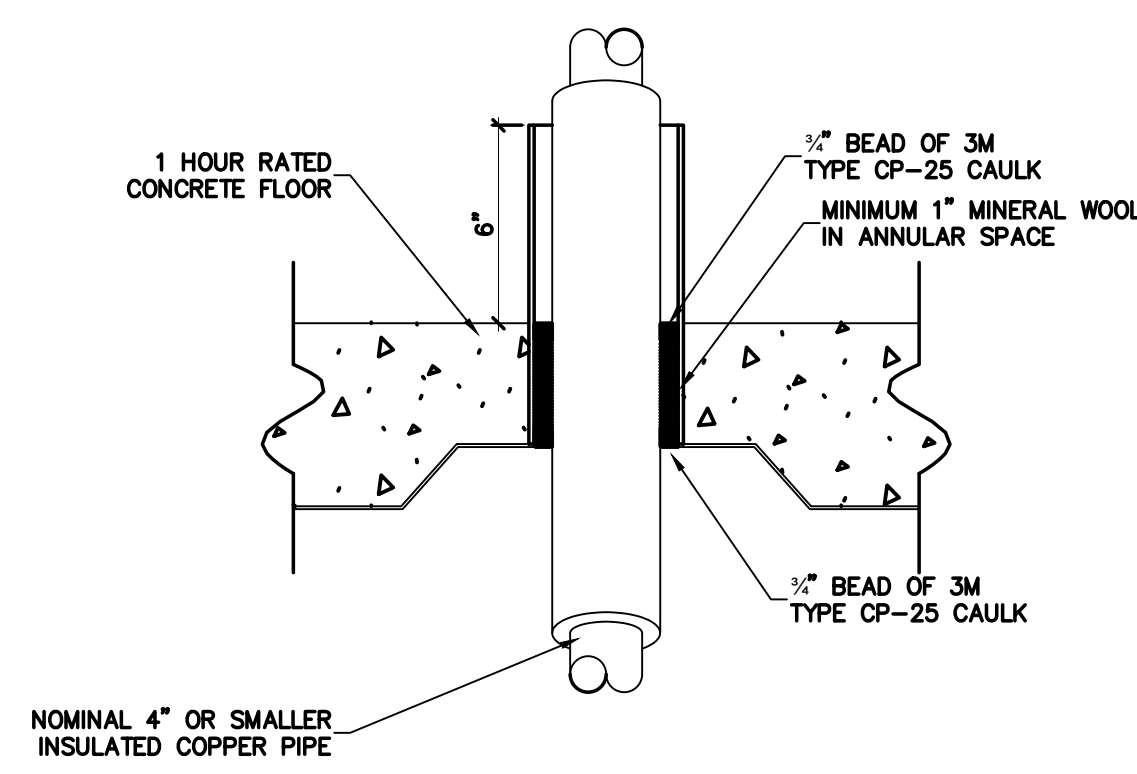
P001	PLUMBING DETAILS & SCHEDULES
P101	100 WING - CAFETERIA WASTE PIPING
P102	100 WING - CAFETERIA WATER PIPING
P111	100 WING - VOCATIONAL WASTE PIPING
P112	100 WING - VOCATIONAL WATER PIPING
P201	200 WING - LOCKER ROOM WASTE PIPING
P202	200 WING - LOCKER ROOM WATER PIPING
P203	200 WING - LOCKER ROOM RISER DIAGRAM
P301	300 WING - LAB RENOVATION PLUMBING PLAN
P401	400 WING - FOOD LAB WASTE PIPING
P402	400 WING - FOOD LAB WATER PIPING
P501	500 WING - NEW SCIENCE CLASSROOM WASTE PIPING
P502	500 WING - NEW SCIENCE CLASSROOM WATER PIPING
P503	500 WING - NEW SCIENCE & GYM PLATFORM PLUMBING PLANS
P504	500 WING - NEW SCIENCE CLASSROOM RISER DIAGRAM
P811	800 WING - NEW GYM WASTE PIPING
P812	800 WING - NEW GYM WATER PIPING

M001	MECHANICAL NOTES & DETAILS
M002	FAN COIL EQUIPMENT SCHEDULE
M003	HOT WATER PIPING FLOW DIAGRAM
M004	CHILLED WATER FLOW DIAGRAM
M005	MECHANICAL DETAILS
M006	MECHANICAL DETAILS
M007	EQUIPMENT SCHEDULES
M101	100 WING - CAFETERIA DEMO PLAN
M111	100 WING - VOCATIONAL DEMO PLAN
M201	200 WING - LOCKER ROOM DEMO PLAN
M301	300 WING - FIRST & SECOND FLOOR DEMO PLAN
M311	300 WING - MEDIA CENTER DEMO PLAN
M401	400 WING - FIRST & SECOND FLOOR DEMO PLAN
M402	400 WING - FIRST AND SECOND FLOOR DEMO PLAN
M403	400 WING - FIRST AND SECOND FLOOR DEMO PLAN
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M409	400 WING - FIRST AND SECOND FLOOR DEMO PLAN
M410	400 WING - FIRST AND SECOND FLOOR DEMO PLAN
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M497	400 WING - FIRST AND SECOND FLOOR DEMO PLAN
M498	400 WING - FIRST AND SECOND



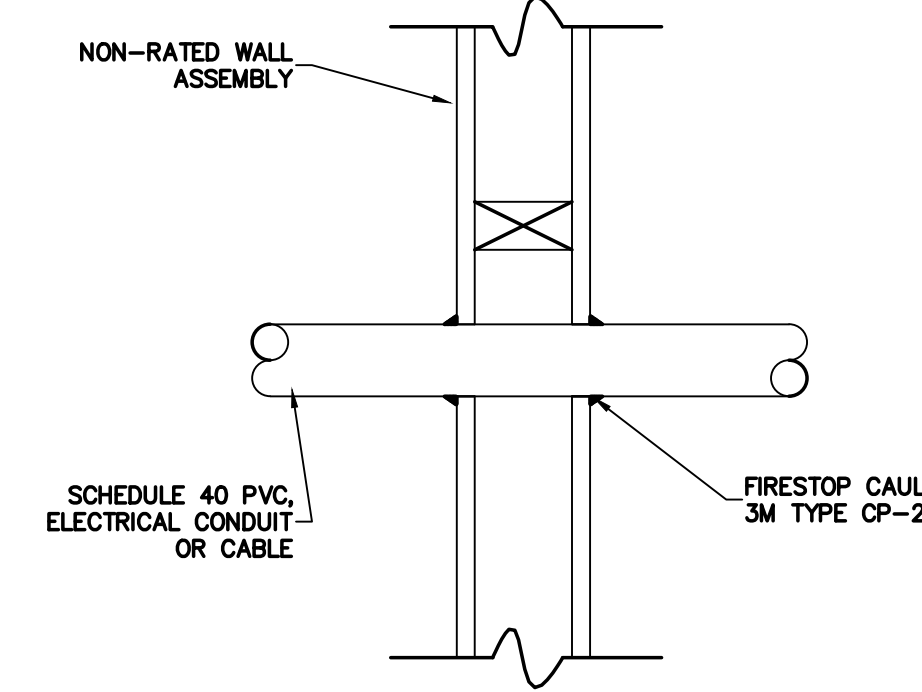
FIRESTOP PENETRATION UL # W-L-3001

001.16 CABLE THROUGH 1 OR 2 HOUR RATED GYPBOARD WALL
SCALE: none



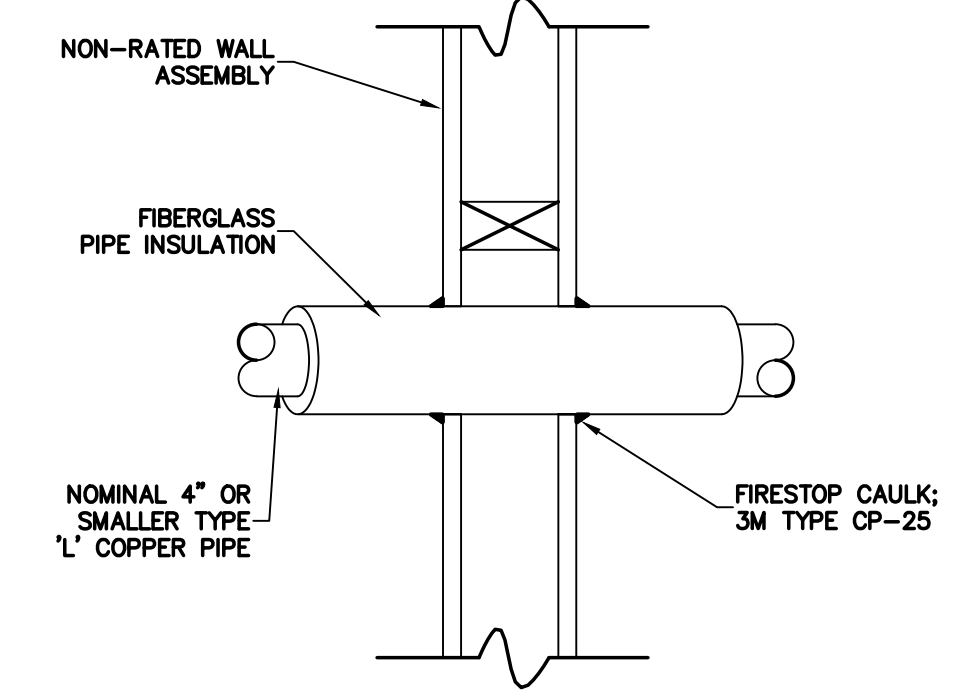
FIRESTOP PENETRATION UL # C-AJ-5001

001.12 INSULATED PIPE THRU 1 HOUR RATED CONCRETE FLOOR
SCALE: none



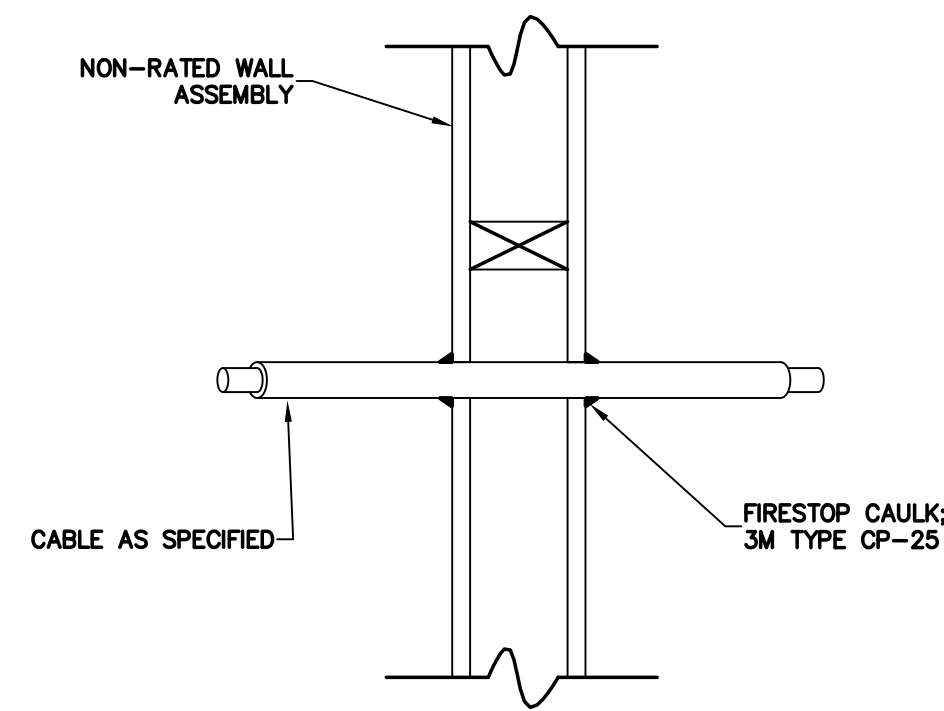
FIRESTOP PENETRATION UL # C-AJ-2001

001.8 PIPE / CONDUIT / CABLE THRU NON-RATED WALL
SCALE: none

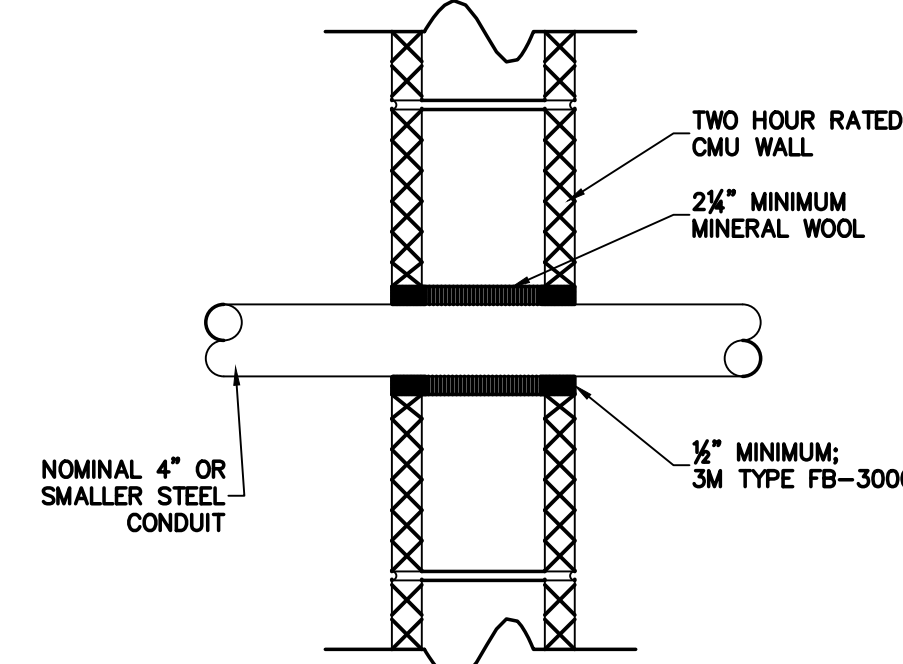


FIRESTOP PENETRATION UL # W-L-5032

001.4 INSULATED PIPE THRU NON-RATED WALL
SCALE: none

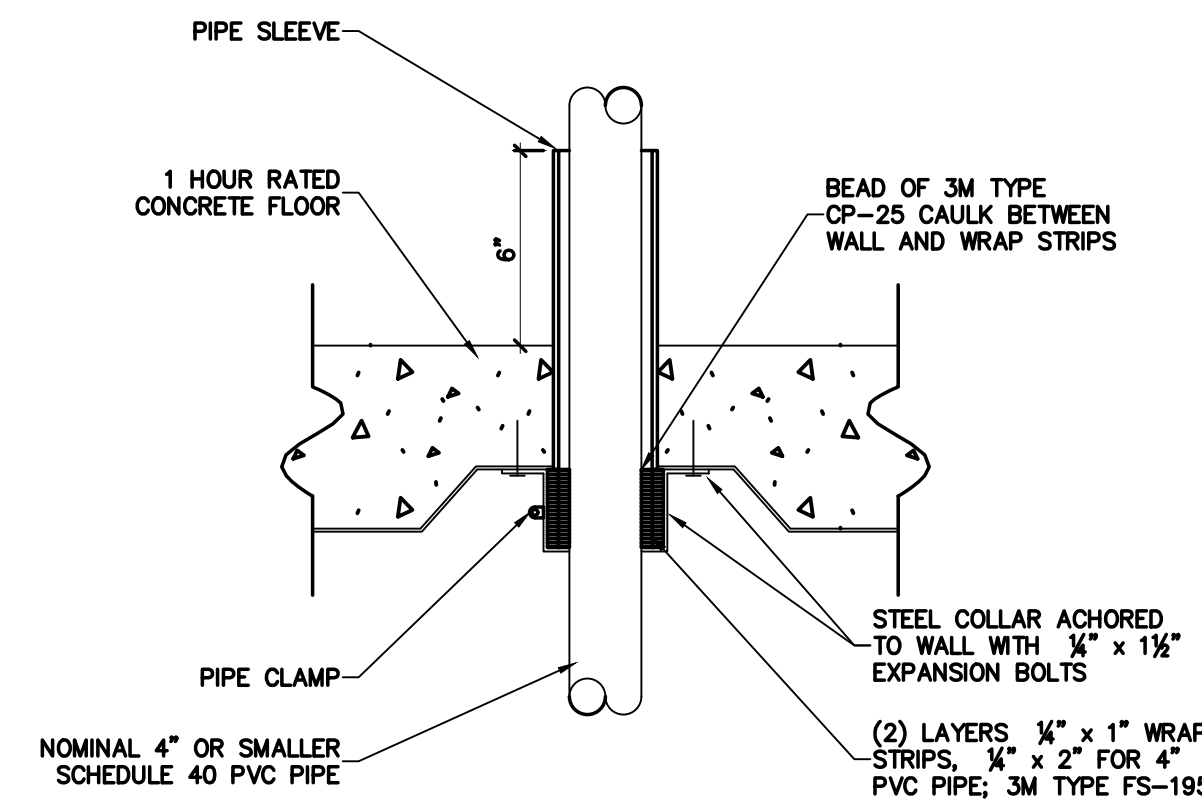


001.15 CABLE THRU NON-RATED WALL
SCALE: none



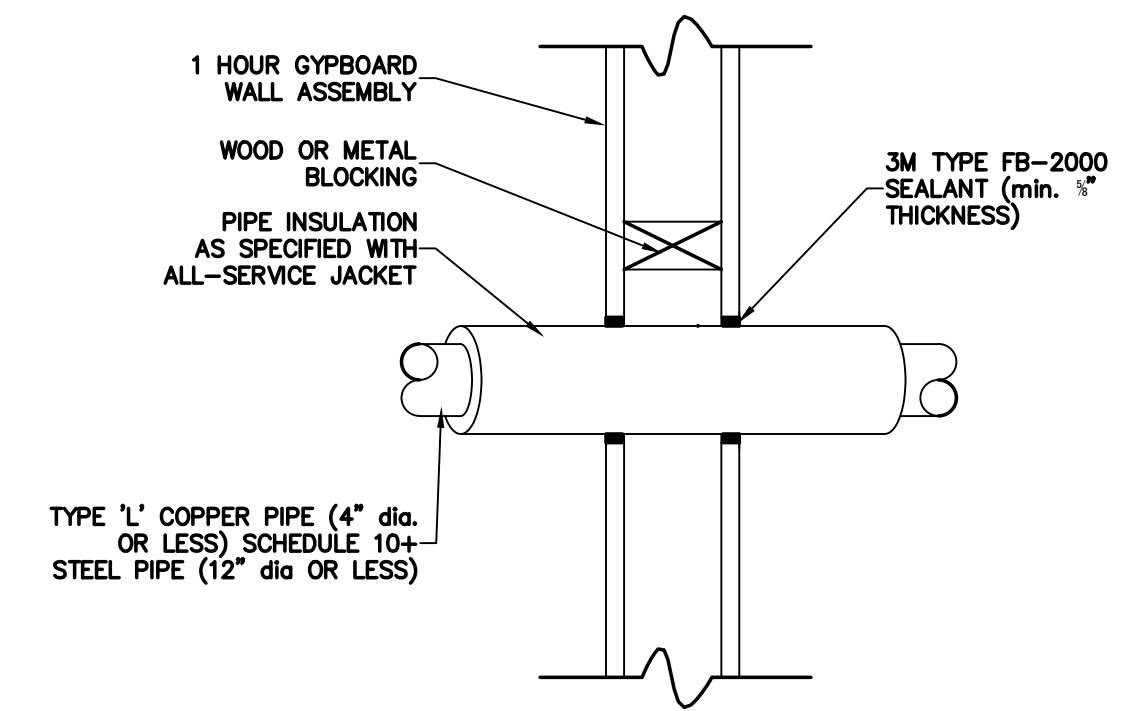
FIRESTOP PENETRATION UL # C-AJ-1014

001.11 CONDUIT THRU 2 HOUR RATED CMU WALL
SCALE: none



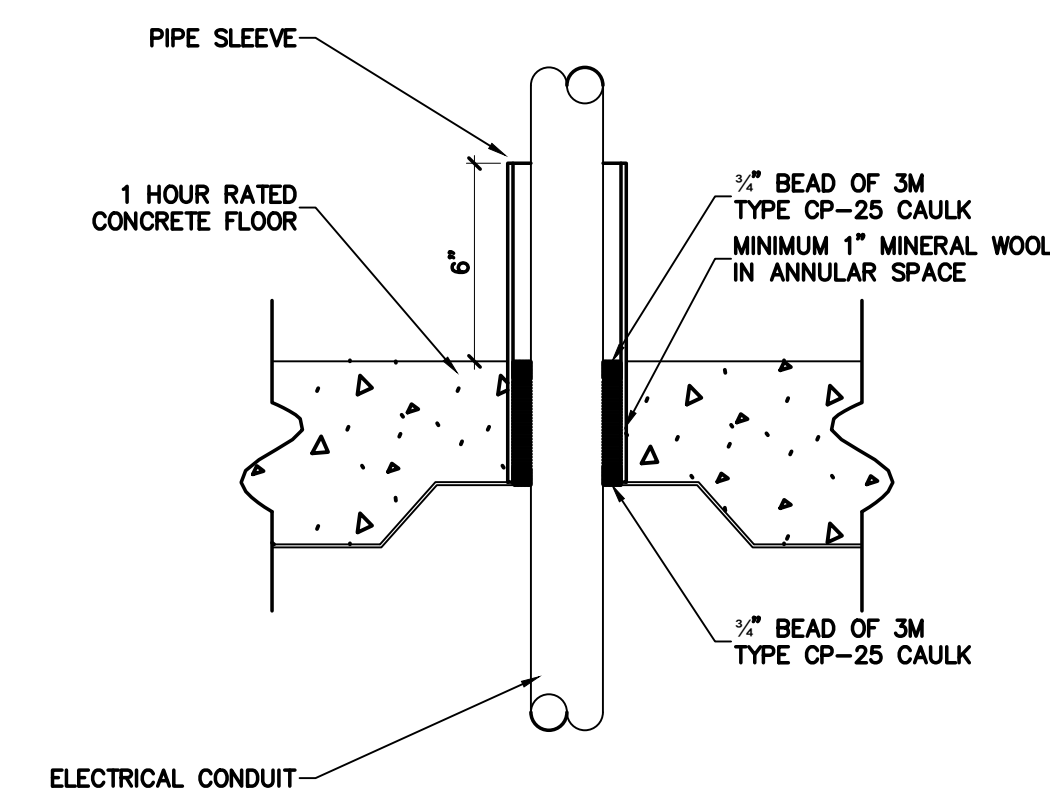
FIRESTOP PENETRATION UL # C-AJ-2001

001.7 PVC PIPE THRU 1 HOUR RATED CONCRETE FLOOR
SCALE: none



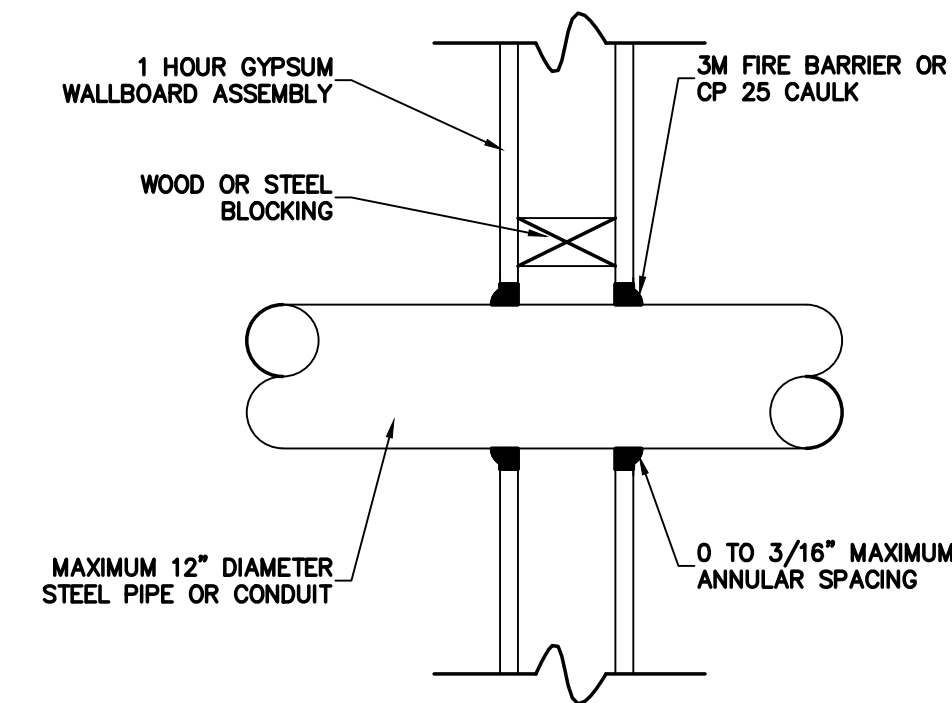
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001.3 INSULATED PIPE THRU 1 HOUR RATED GYPBOARD WALL
SCALE: none



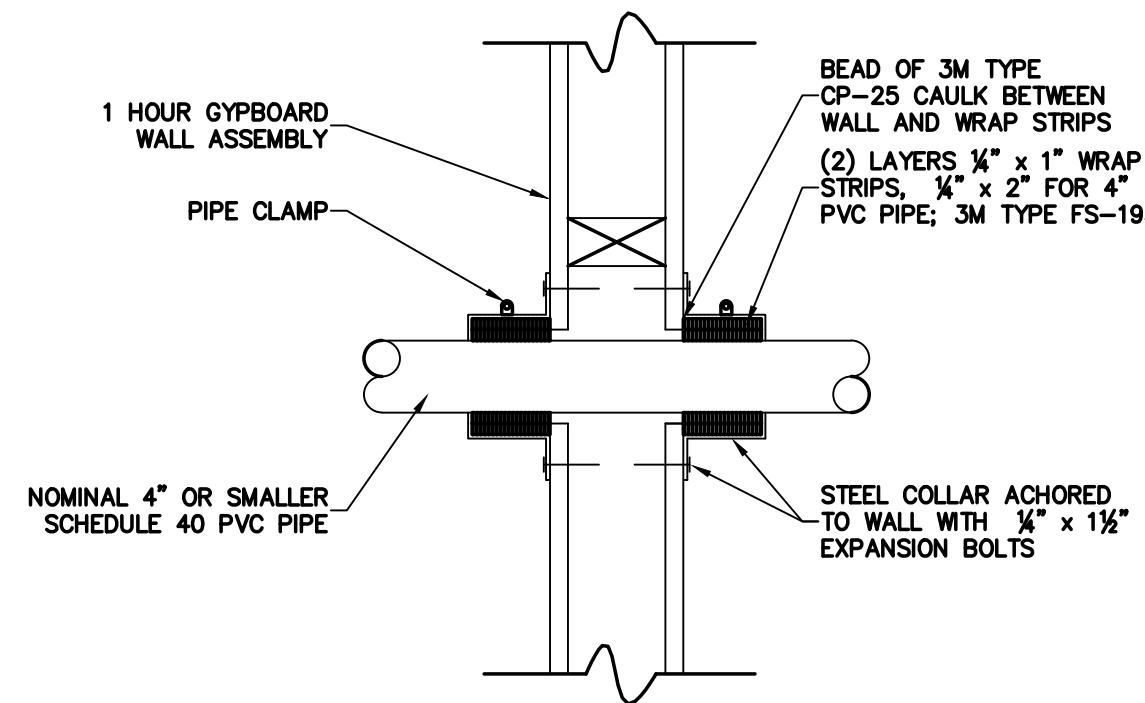
FIRESTOP PENETRATION UL # C-AJ-2001

001.14 CONDUIT THRU 1 HOUR RATED CONCRETE FLOOR
SCALE: none



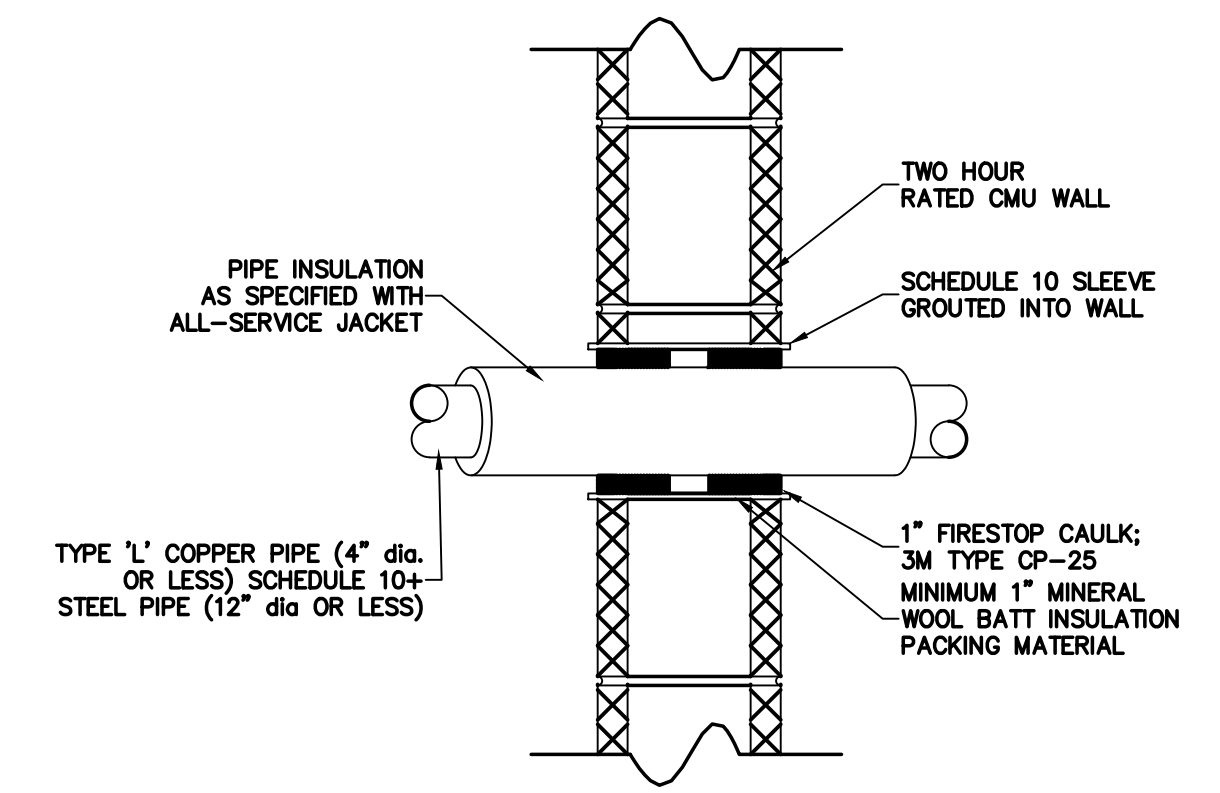
FIRESTOP PENETRATION UL # W-L-1001

001.10 CONDUIT THRU 1 HOUR RATED GYPBOARD WALL
SCALE: none



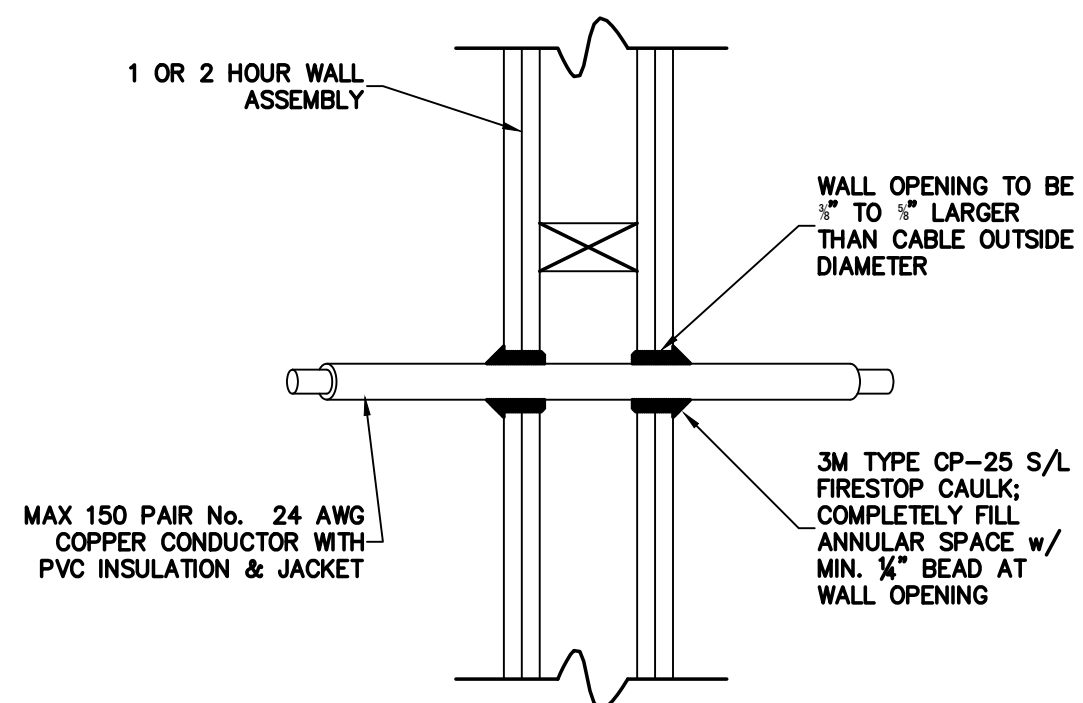
FIRESTOP PENETRATION UL # W-L-2002

001.6 PVC PIPE THRU 1 HOUR RATED GYPBOARD WALL
SCALE: none



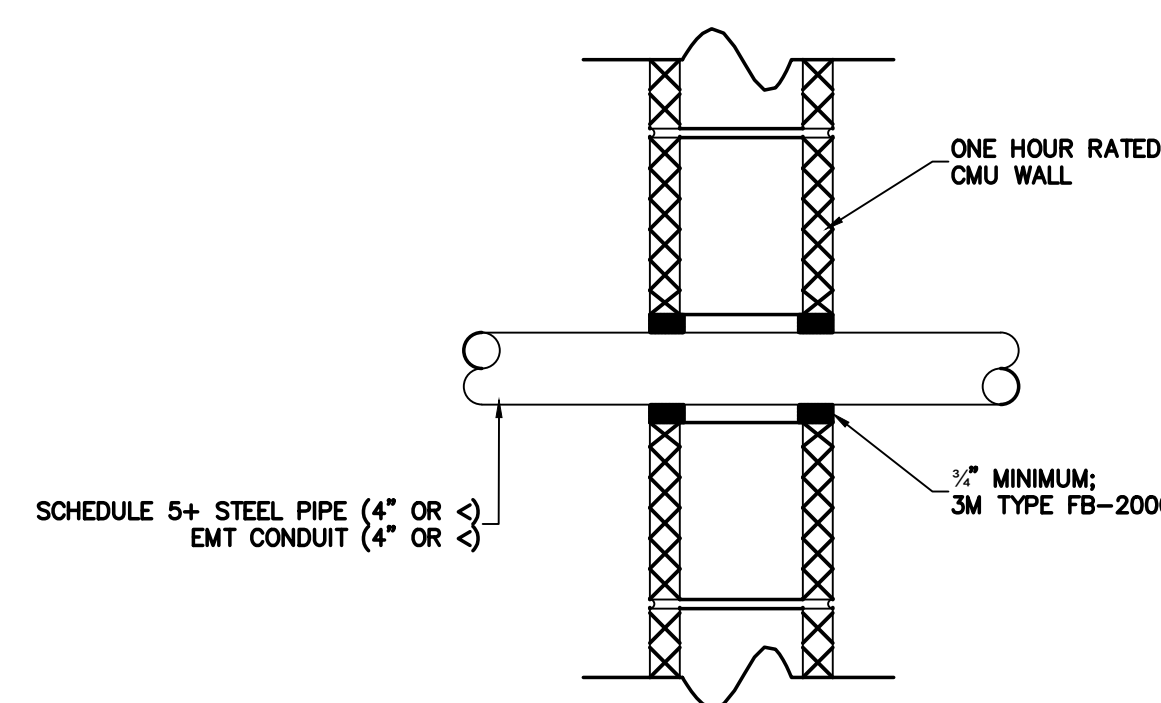
FIRESTOP PENETRATION UL # C-AJ-5001

001.2 INSULATED PIPE THRU 2 HOUR RATED CMU WALL
SCALE: none



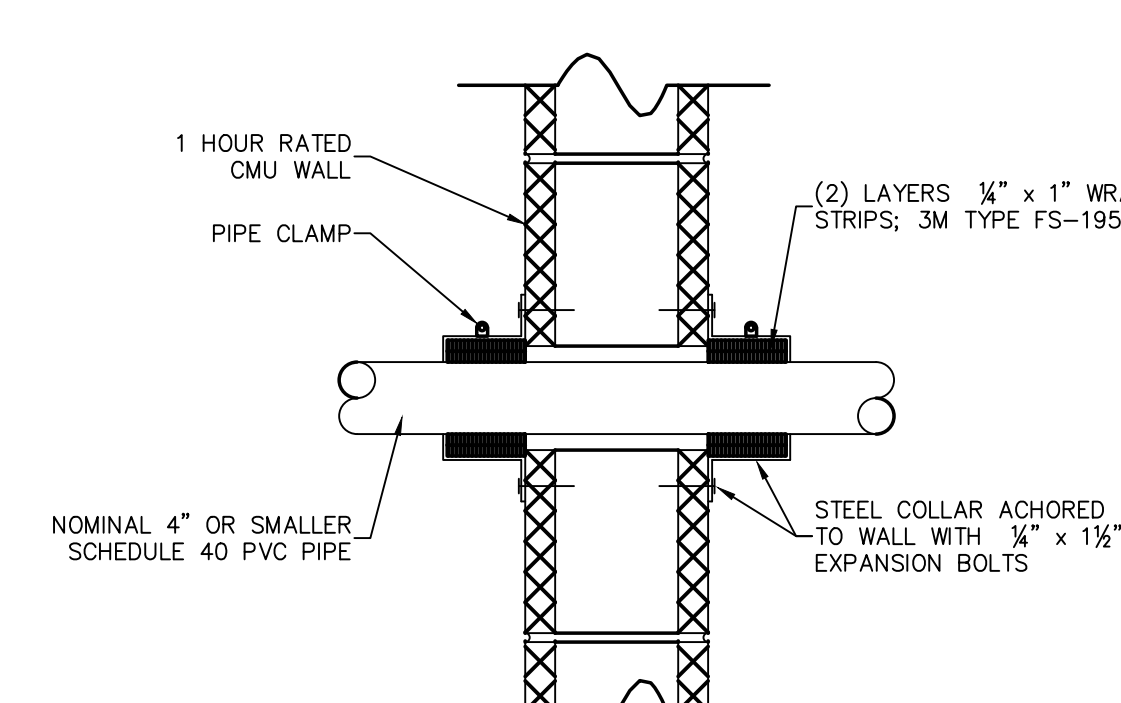
FIRESTOP PENETRATION UL # W-L-3001

001.13 CABLE THROUGH 1 OR 2 HOUR RATED GYPBOARD WALL
SCALE: none



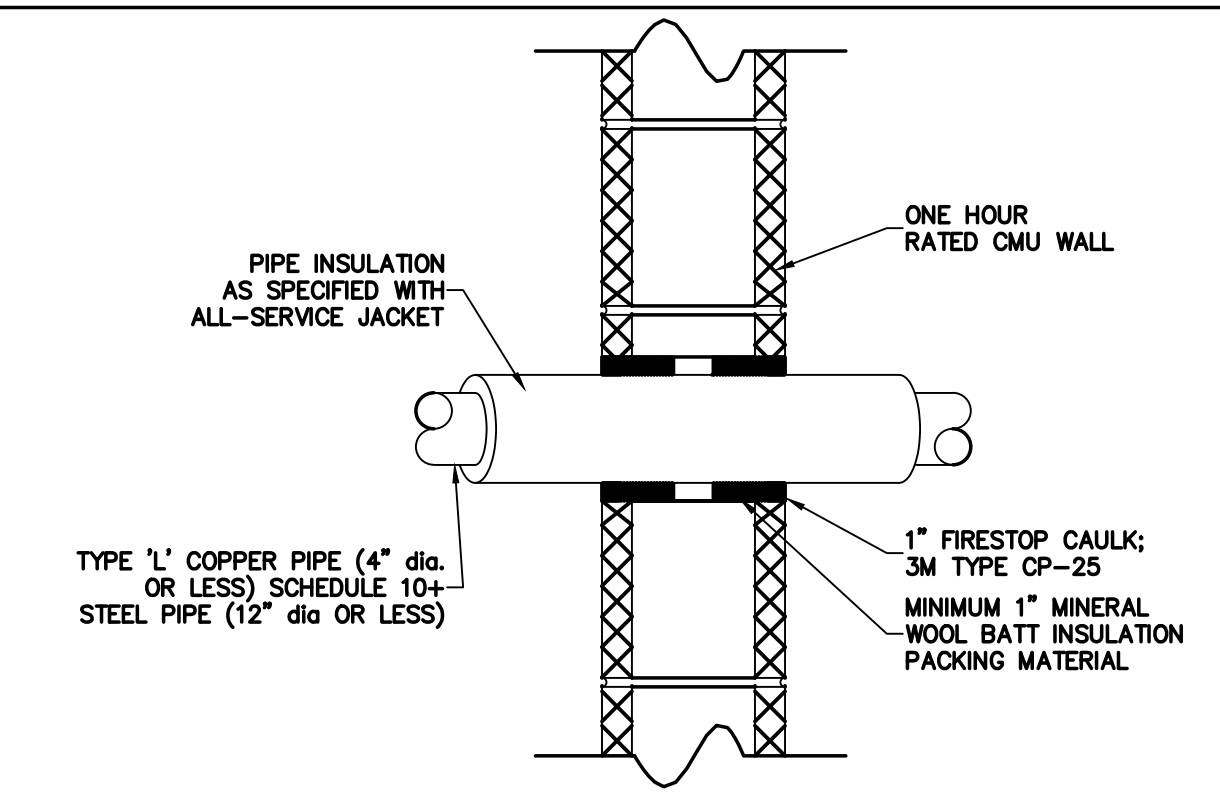
FIRESTOP PENETRATION UL # C-AJ-1013

001.9 CONDUIT THRU 1 HOUR RATED CMU WALL
SCALE: none



FIRESTOP PENETRATION UL # C-AJ-2025

001.5 PVC PIPE THRU 1 HOUR RATED CMU WALL
SCALE: none



FIRESTOP PENETRATION UL # C-AJ-5001

001.1 INSULATED PIPE THRU 1 HOUR RATED CMU WALL
SCALE: none

NOTE: ALL MEMBRANE PENETRATIONS SHALL BE SEALED PER THE CORRESPONDING THROUGH PENETRATION DETAIL PER NC BUILDING CODE.

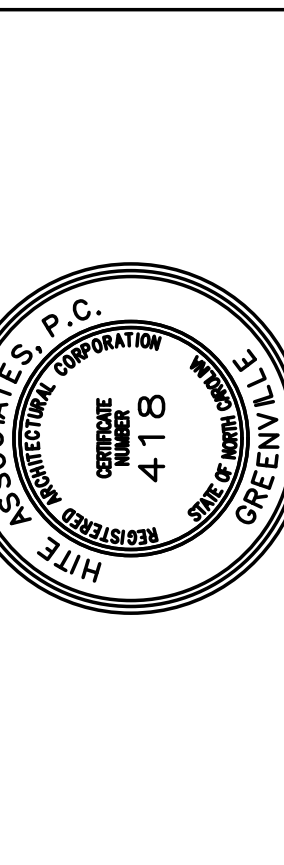
ES21000
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No.	Date	Revision

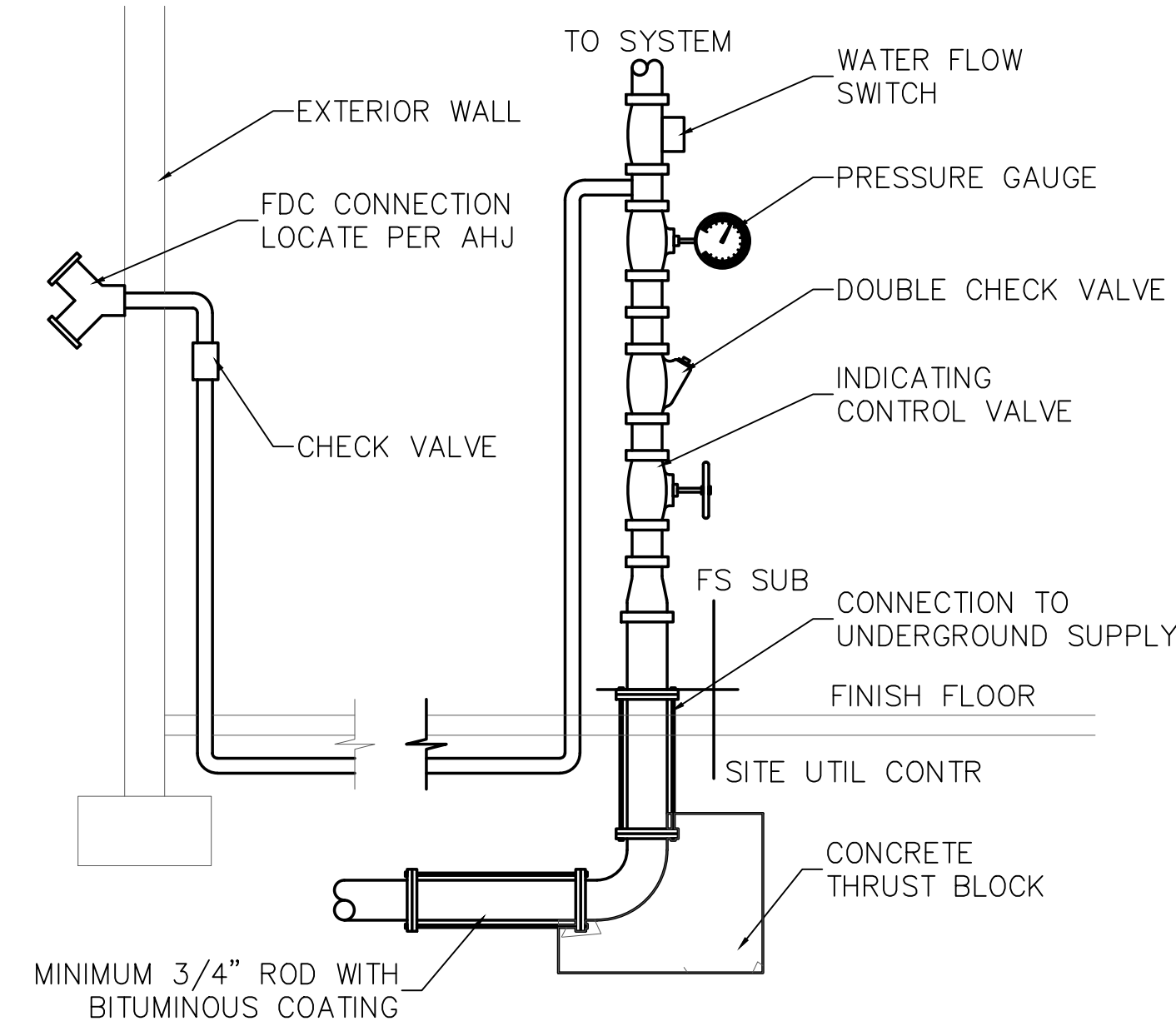
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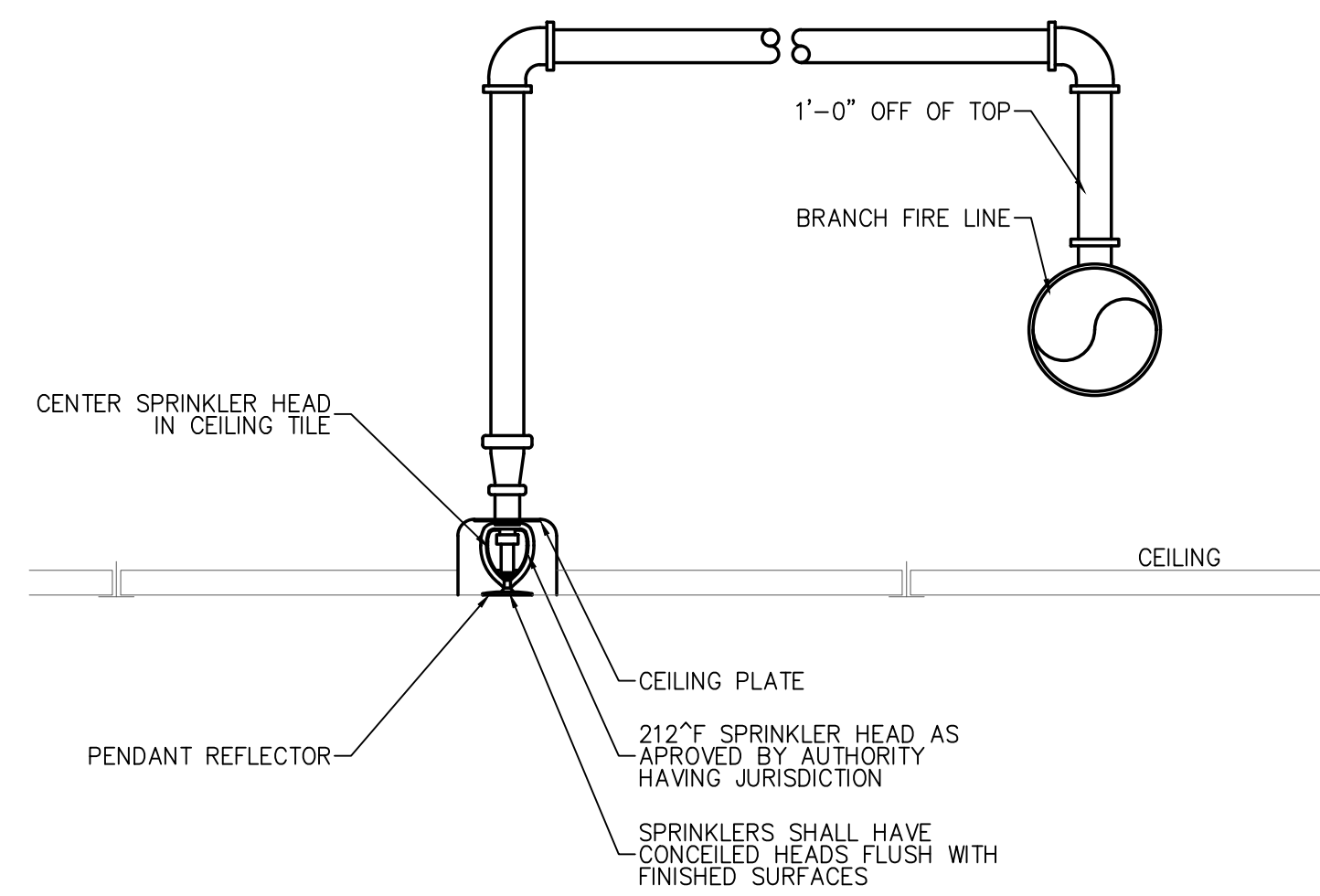
New Additions & Renovations to
West Carteret High School
4700 Country Club Road, Morehead City, NC 28577
Carteret County Schools / North Carolina

Project No: 22112
Date: 03 Oct 2023
Drawing No:
FP 001

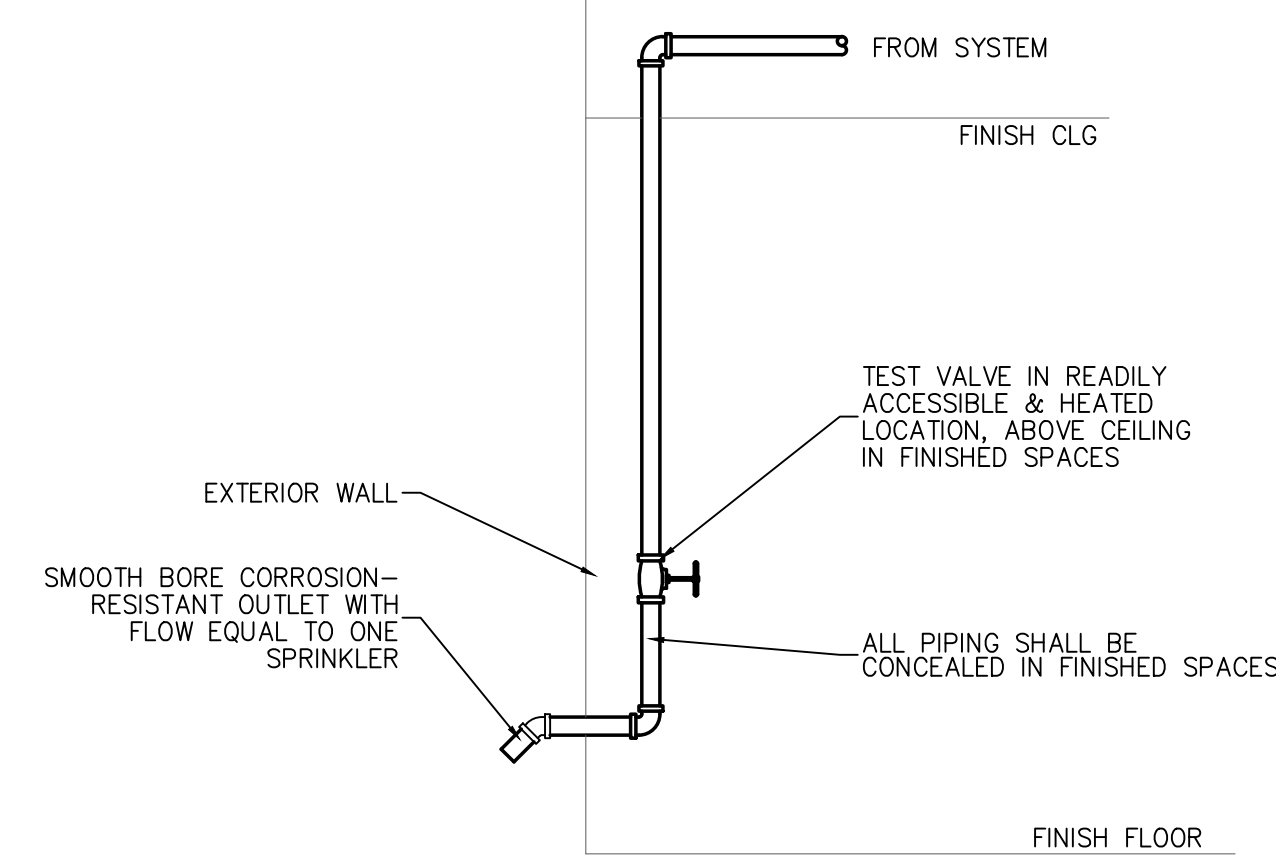
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501.4 SPRINKLER SYSTEM RISER
SCALE: none



501.3 SPRINKLER HEAD DETAIL
SCALE: none

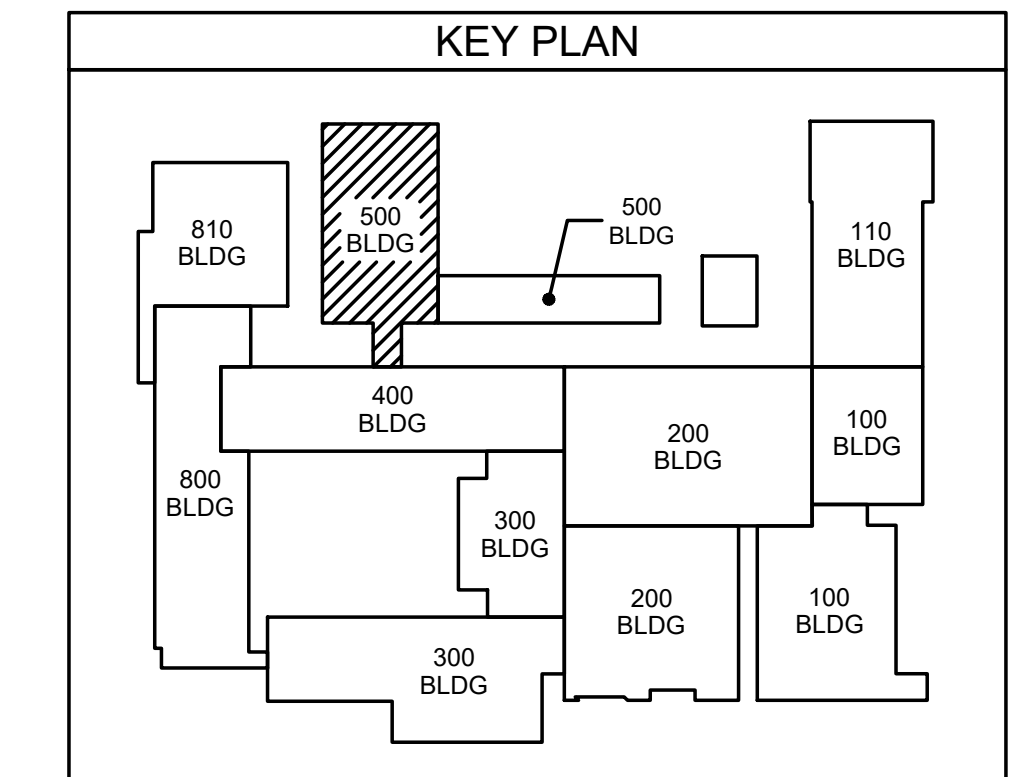


501.2 SYSTEM TEST CONNECTION
SCALE: none

DESIGN CRITERIA (SCIENCE)	
SYSTEM TYPE:	WET
CLASSIFICATION:	REFER TO SPECIFICATIONS
DENSITY:	REF. SPECS. DESIGN CRITERIA
PROTECTION AREA:	14,500
MIN. FIRE FLOW PER NC FIRE CODE TABLE 8105.1.2	2,500 gpm
PIPE SIZING:	HYD. CALC'S
REMOTE AREA:	1500 sf
HOSE:	250 gpm
FIRE FLOW DATA	
MAIN SIZE:	PROPOSED 6"
ELEV.:	
STATIC PRESS.:	58 PSI
VOLUME:	1233 GPM
RESIDUAL PRESS.:	52 PSI
LOCATION:	VASHITI HYDRANT - NORTH END
REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS	
NOTE: THIS SYSTEM MUST MEET NC FIRE CODE APPENDIX B FOR TYPE IIB CONSTRUCTION AND THE TOTAL 4" OF RISING UNDER HOOD. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE FDC CONNECTION TO THE HYDRANT AND VERIFYING THE FLOW FROM THE HOOD & PROVIDING A MINIMUM 1" TEST FROM WATER UTILITY WITH SHOP DRAWING SUBMITTAL TO ENGINEER & AHJ.	



501.1 FIRE SUPPRESSION PLAN - SCIENCE ROOMS
SCALE: 1/8" = 1'-0"



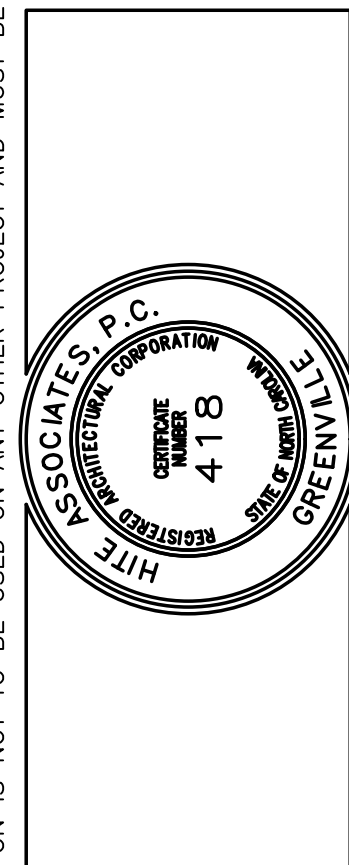
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100-40 Regency Blvd, Greensboro, NC 27834
E-Mail Address: general@engsource.com
Tel: (336) 438-0338 • Fax: (336) 438-0462 • TDD: (336) 438-1073

DATE: 10/23/23

No.	Date	Revision

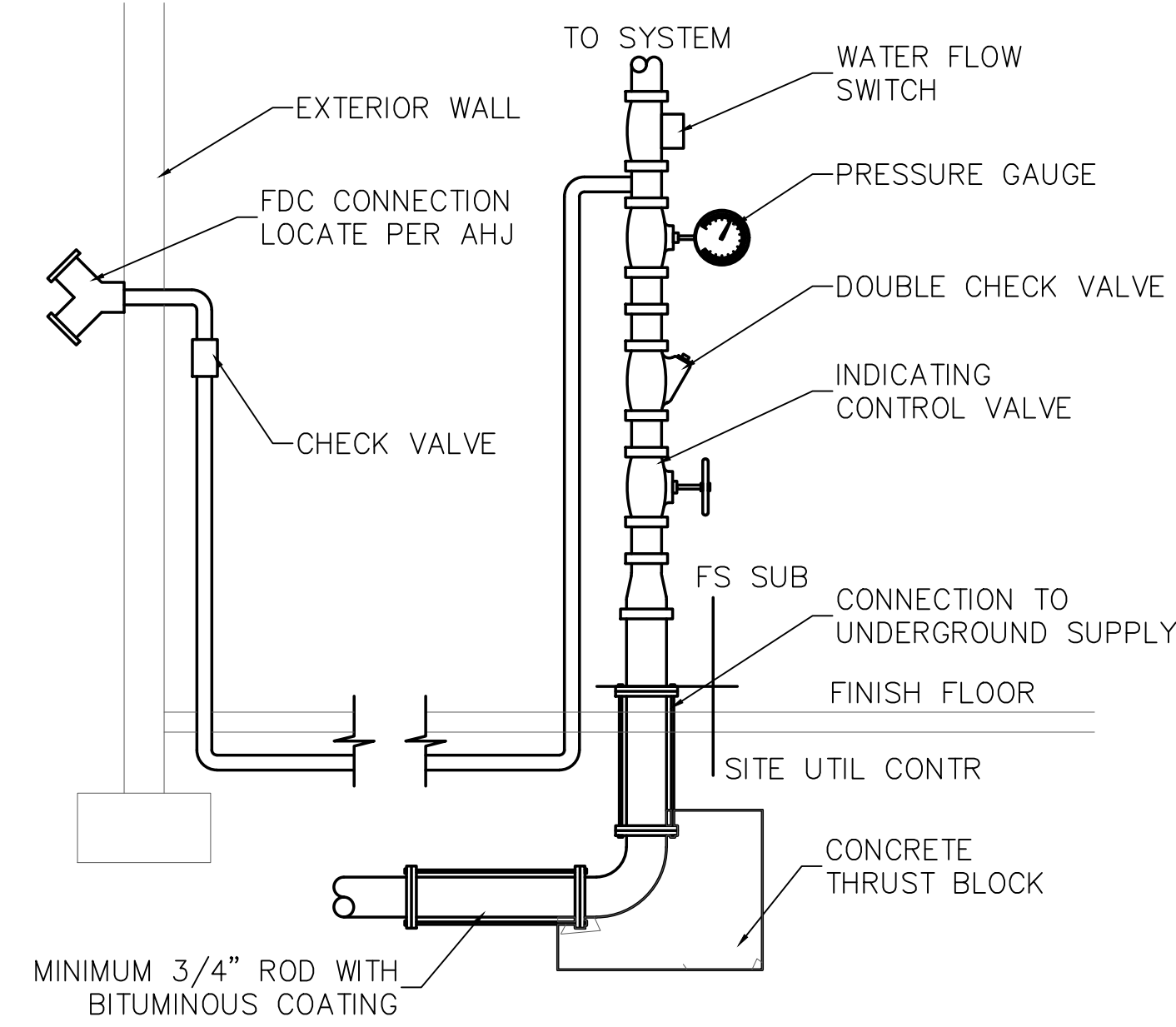
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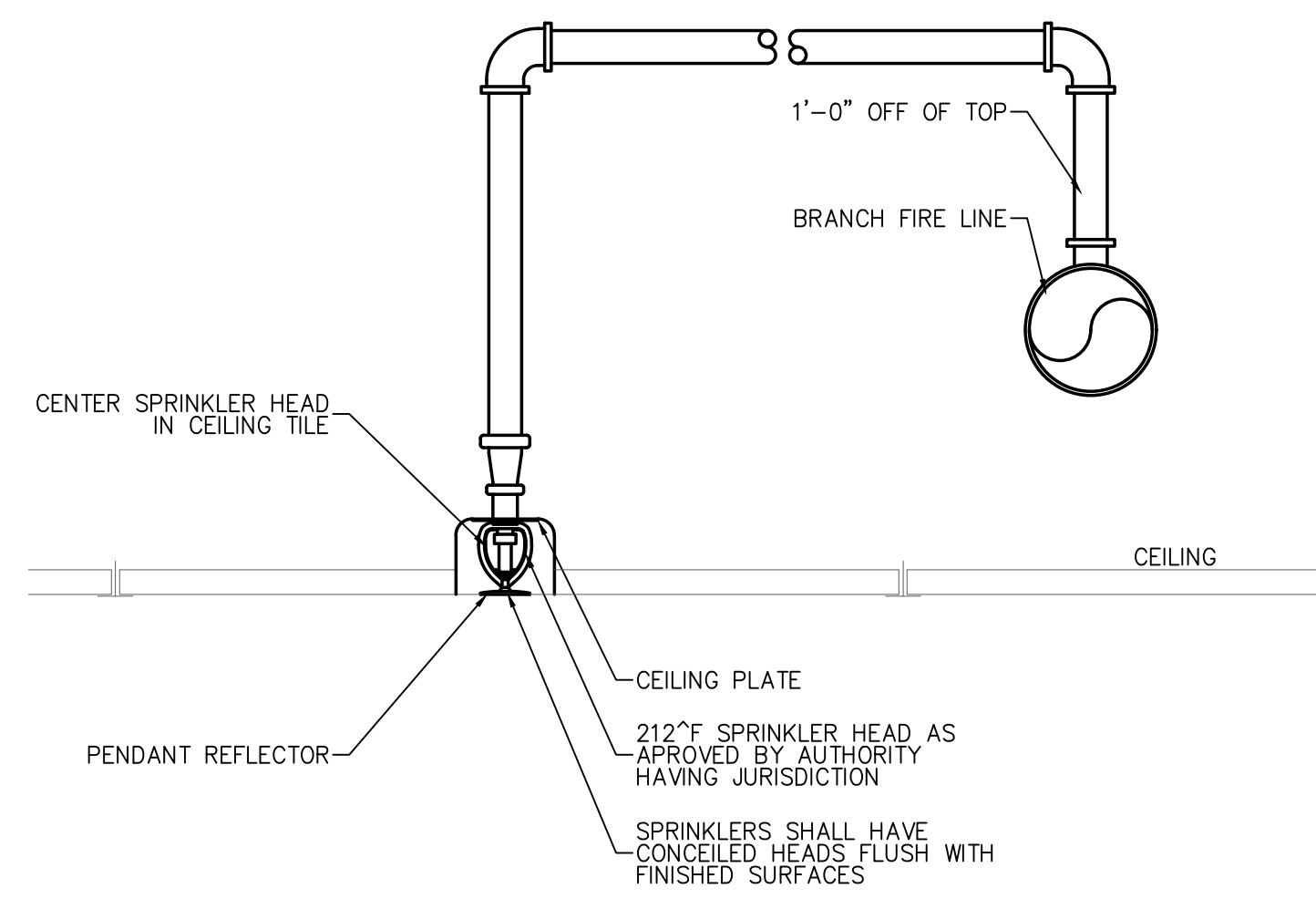
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Carteret County Schools / North Carolina

Project No. 22112
Date: 03 Oct 2023
Drawing no. FS 501

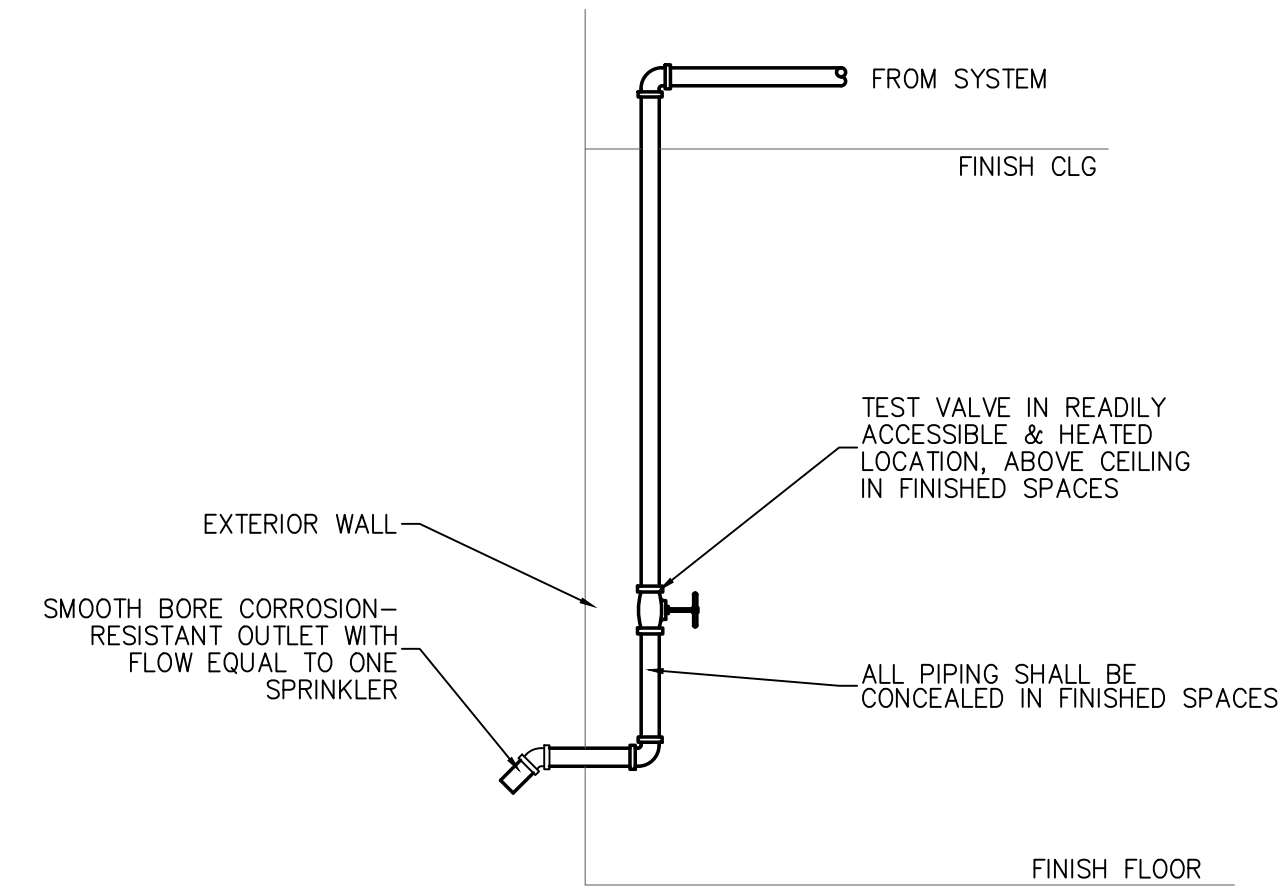
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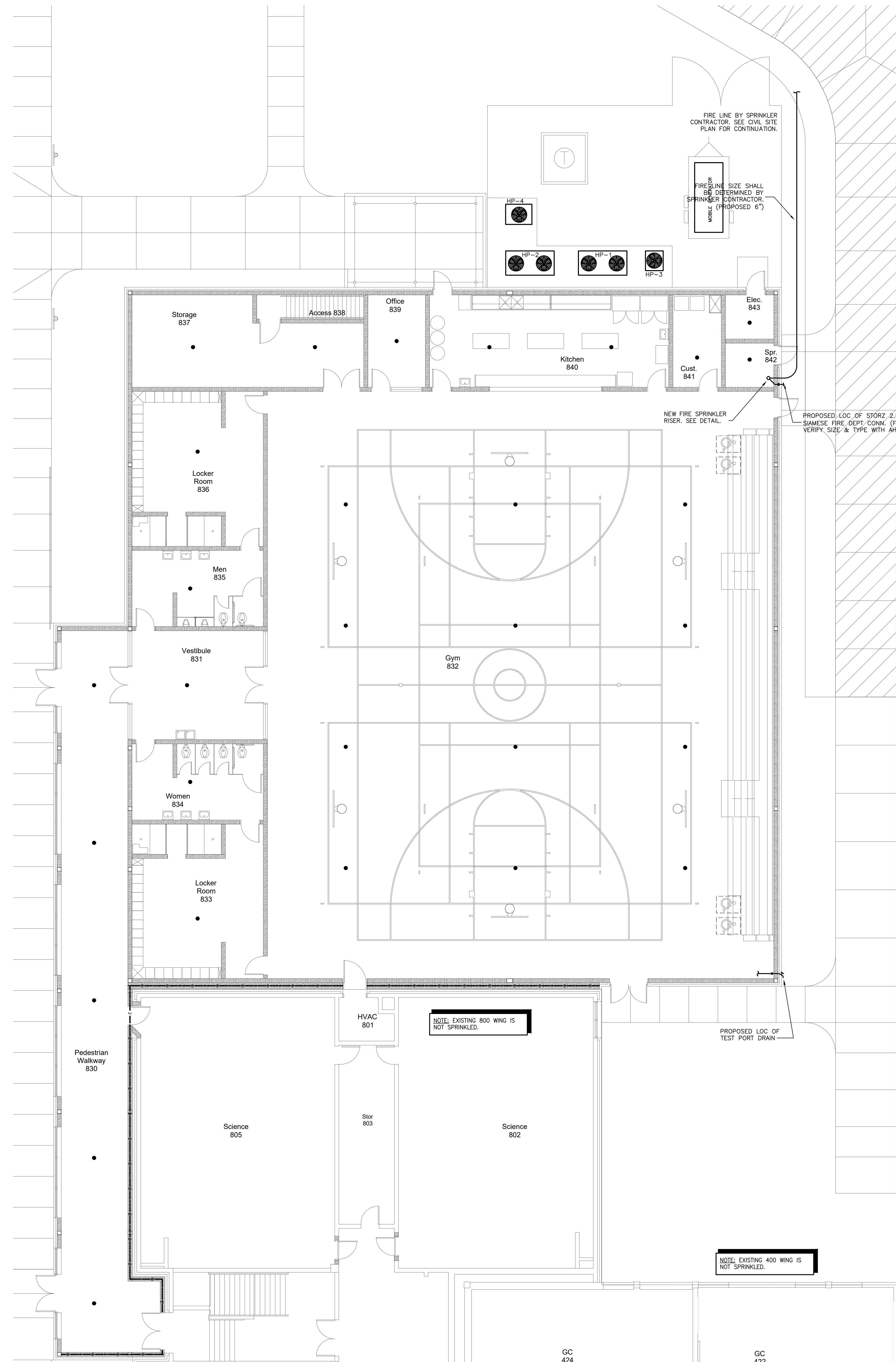
811.4 SPRINKLER SYSTEM RISER
SCALE: none



811.3 SPRINKLER HEAD DETAIL
SCALE: none

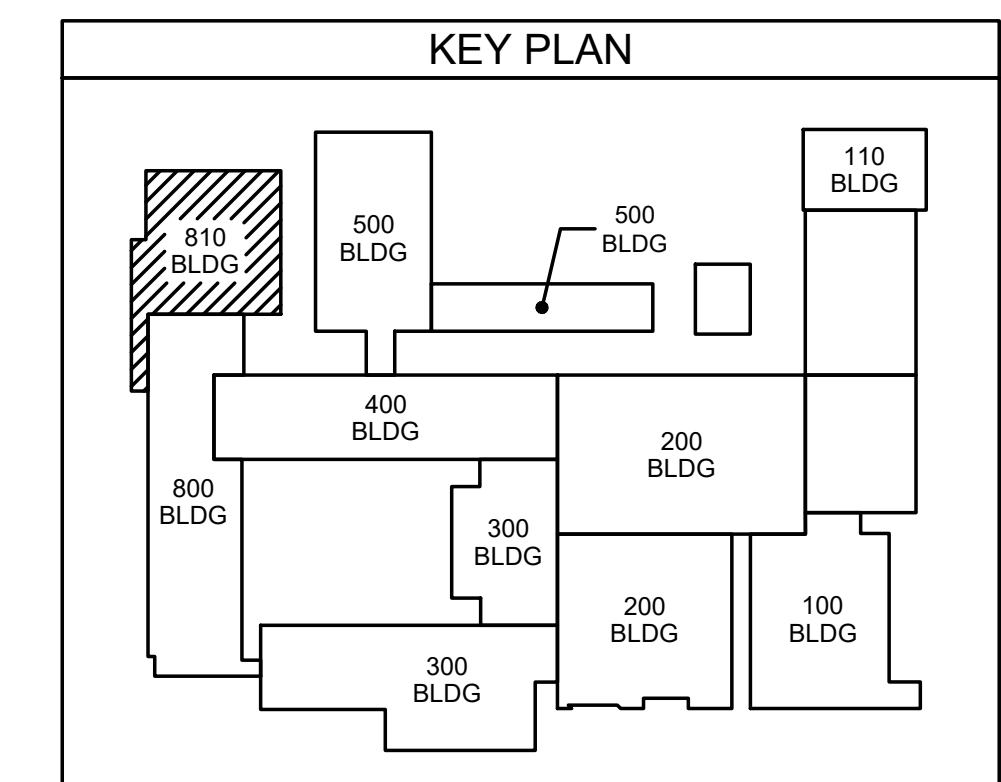


811.2 SYSTEM TEST CONNECTION
SCALE: none



811.1 FIRE SUPPRESSION PLAN - SCIENCE ROOMS
SCALE: 1/8" = 1'-0"

DESIGN CRITERIA (GYM)	
SYSTEM TYPE:	WET
CLASSIFICATION:	REFER TO SPECIFICATIONS
DENSITY:	REF. SPECS. DESIGN CRITERIA
PROTECTION AREA:	14,000
MIN. FIRE FLOW PER NC FIRE CODE TABLE 8105.1.2:	2,500 gpm
PIPE SIZING:	HYD CALCS
REMOTE AREA:	1500 sf
HOSE:	250 gpm
FIRE FLOW DATA	
MAIN SIZE:	PROPOSED 6"
ELEV.:	
STATIC PRESS:	58 PSI
VOLUME:	1,233 GPM
RESIDUAL PRESS:	52 PSI
LOCATION:	VASHTI HYDRANT - NORTH END
REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS	
NOTE: FLOWS MUST MEET NC FIRE CODE APPENDIX B FOR TYPE IIB CONSTRUCTION AND THE TYPE OF BUILDING UNDER PROTECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING VERIFIED FLOW PRIOR TO BID & PROVIDING CORRECT LETTER FROM WATER UTILITY WITH SHOP DRAWING SUBMITTAL TO ENGINEER & AIA.	



ES21060
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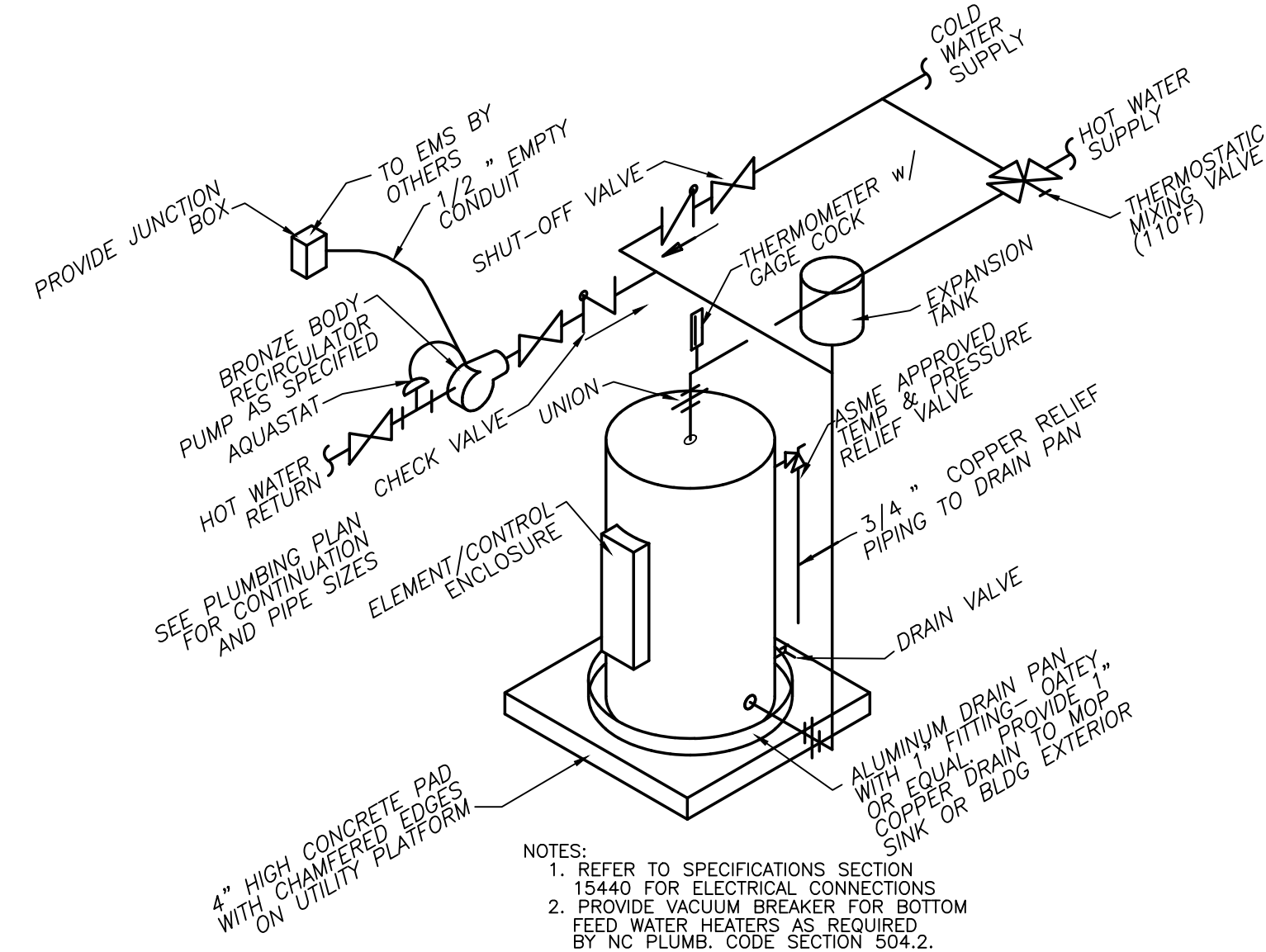
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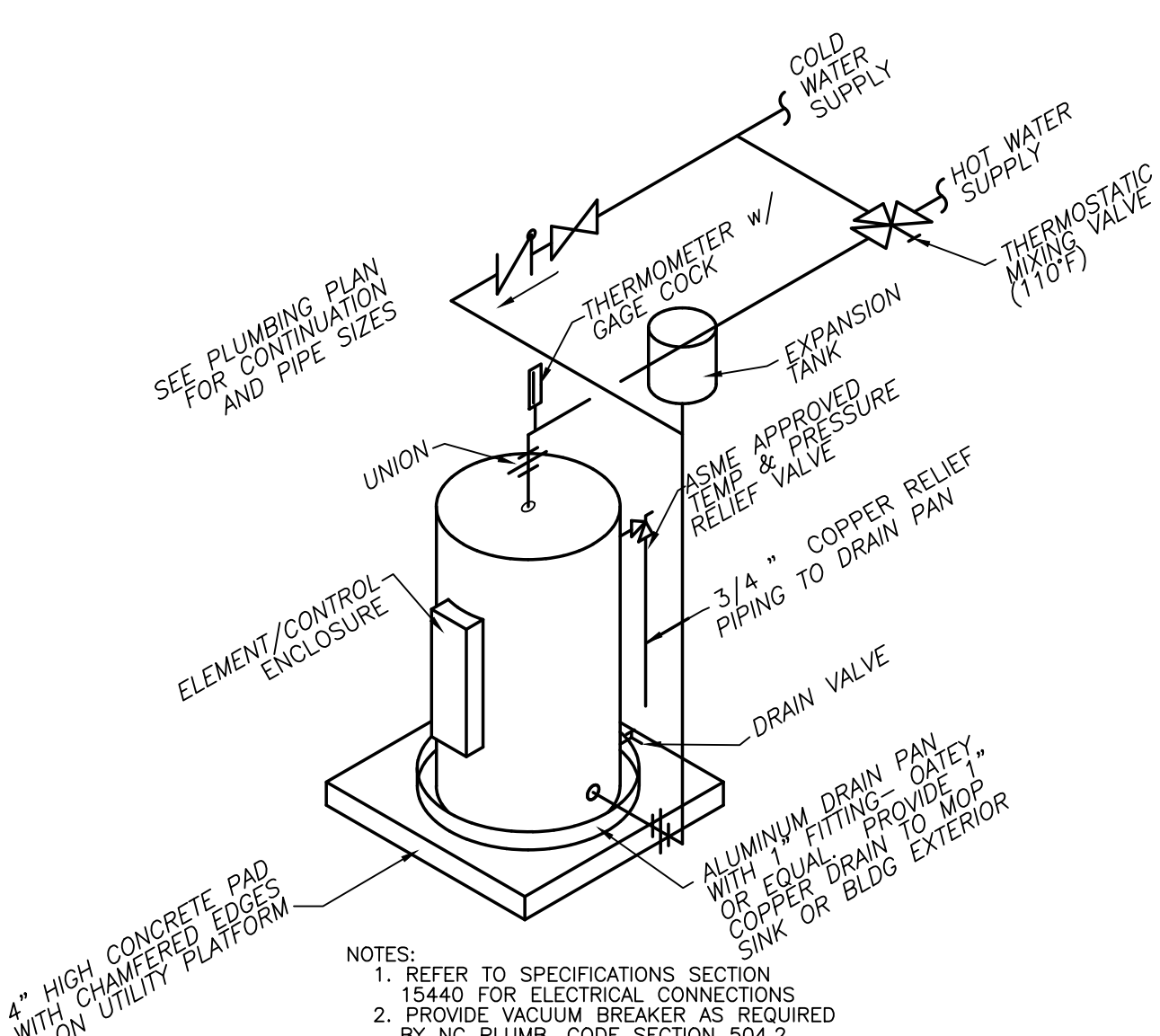
Project No. 22112
 Date: 03 Oct 2023
 Drawing no. **FS 811**

PLUMBING GENERAL NOTES:

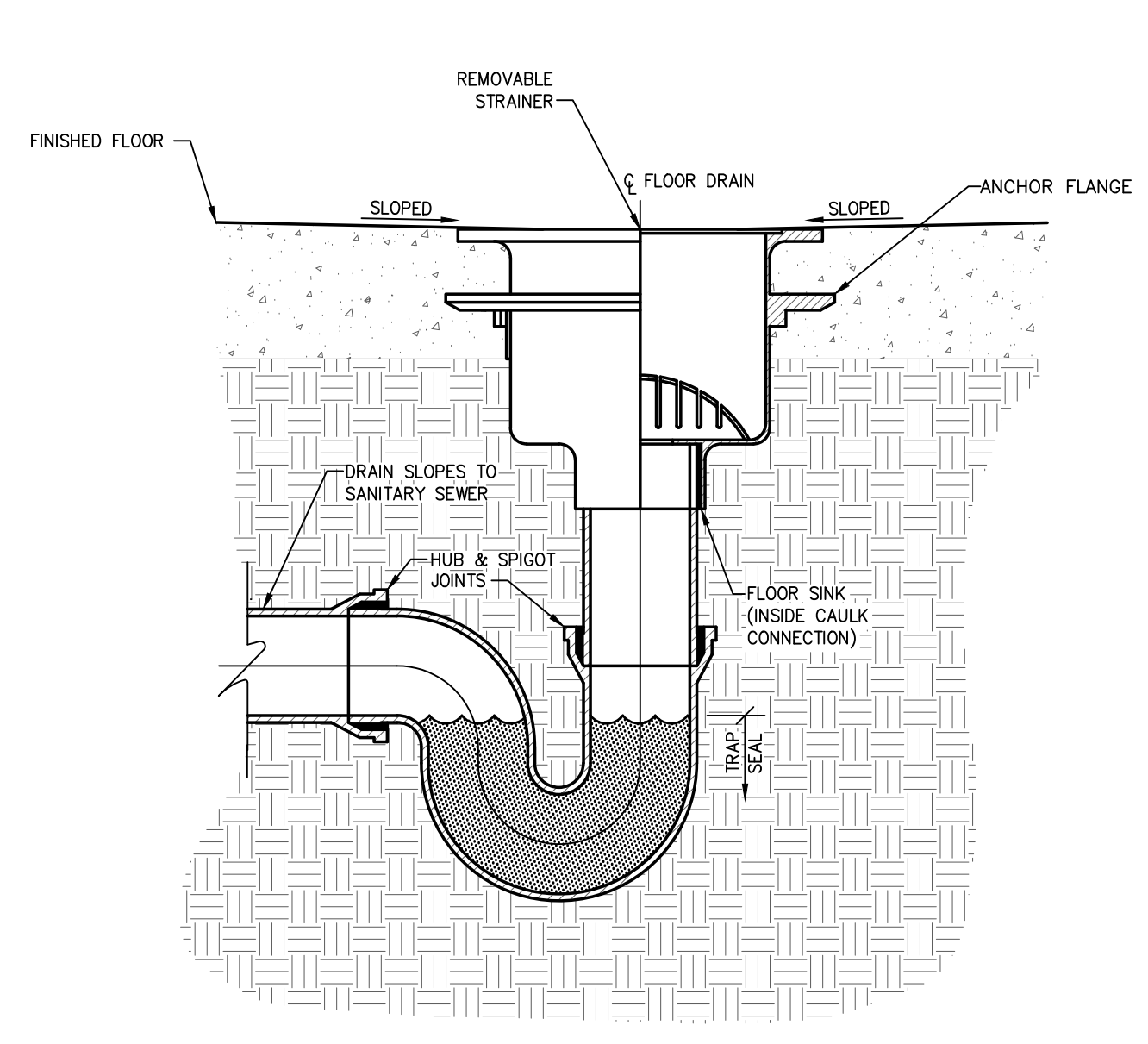
1. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH N.C. PLUMBING CODE AND LOCAL PLUMBING INSPECTOR.
2. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, TEES, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
3. THESE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING PLUMBING SYSTEM.
4. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC. (COST SHALL BE PASSED THROUGH TO OWNER).
5. CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.
6. ALL DOMESTIC WATER PIPING SHOWN IS ABOVE BETWEEN FLOOR JOIST/WITHIN WALLS, AND IN CRAWL SPACES UNLESS OTHERWISE NOTED.
7. ALL DOMESTIC WATER PIPING (ABOVE SLAB) SHALL BE COPPER TUBING, CPVC OR FLEXIBLE PLASTIC TUBING (PEX). PIPING BELOW SLAB SHALL BE SOFT COPPER TUBING, 10"-0" MINIMUM, WITH NO JOINTS. COPPER TUBING BELOW GRADE SHALL BE UTILIZED AS THE ELECTRICAL SYSTEM GROUNDING ELECTRODE.
8. ALL WATER PIPING SHALL BE INSULATED WITH CLOSED CELL (ARMAFLEX) TYPE INSULATION WITH THE FLAME DENSITY RATING NOT EXCEEDING 25 & THE SMOKE DENSITY RATING NOT EXCEEDING 50. THICKNESS FOR COLD WATER PIPING SHALL BE 1/2" THICK. THICKNESS FOR HOT WATER & RETURN PIPING SHALL BE 1" THICK. INSTALL SADDLES AS REQUIRED IN ALL LOCATIONS TO PREVENT COMPRESSION OF INSULATION.
9. ALL BRANCH LINES SHALL HAVE SHUT-OFF VALVES. ALL DOMESTIC WATER BALL VALVES SHALL BE BRASS BODY, FULL PORT, CHROME PLATED BALL. TEFLON SEATS 150 # WSP. FOR SIZES 1/2" THRU 2". PROVIDE VALVE HANDLE EXTENSIONS AS REQUIRED FOR INSULATION.
10. ALL SANITARY SEWER PIPING SHOWN IS BELOW SLAB/WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.
11. ALL WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV CONFORMING TO ASTM D 2665. ALL JOINTS SHALL BE SOLVENT WELDED TYPE CONFORMING TO ASTM D 2665/2949/3034, ASTM F 891, CSA B182.2, CSA CAN/CSA-B182.4
12. ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY NC PLUMBING CODE AND MANUFACTURERS RECOMMENDATIONS.
13. ALL PIPING PENETRATIONS THRU NEW AND EXISTING WALLS SHALL BE SEALED TO EQUAL RATING OF THE NEW/EXISTING WALL.
14. ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED PER N.C. PLUMBING CODE.
15. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDER SLAB PIPING WITH ALL STRUCTURAL FOUNDATIONS, P.C. SHALL COORDINATE ALL UNDER SLAB PIPING WITH ELEVATION INVERTS WITH THE SITE UTILITY INVERTS.
16. THE ENTIRE PLUMBING SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH NC PLUMBING CODE.
17. ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT WASTE LINES, VENT LINES, AND WATER SUPPLY LINES.
18. P.C. SHALL VERIFY AND SET THE MAXIMUM OUTLET TEMPERATURES AT ALL NON-COMMERCIAL KITCHEN EQUIPMENT INCLUDING HAND SINKS LOCATED IN THE KITCHEN TO NOT EXCEED 120°F BY INSTALLATION OF POINT OF USE ANTI-SCALD MIXING VALVES IF NECESSARY.
19. ALL ACCESS COVERS INCLUDING BUT NOT LIMITED TO IN-GRADE CLEANOUTS, MANHOLES, AND WATER METER BOXES SHALL BE FLUSH WITH FINISHED GRADE UNLESS OTHERWISE SPECIFIED
20. P.C. SHALL PROTECT ALL PLUMBING PIPE AS IT COMES UP THROUGH CONCRETE PER SECTION 305.1 OF THE N.C. PLUMBING CODE.



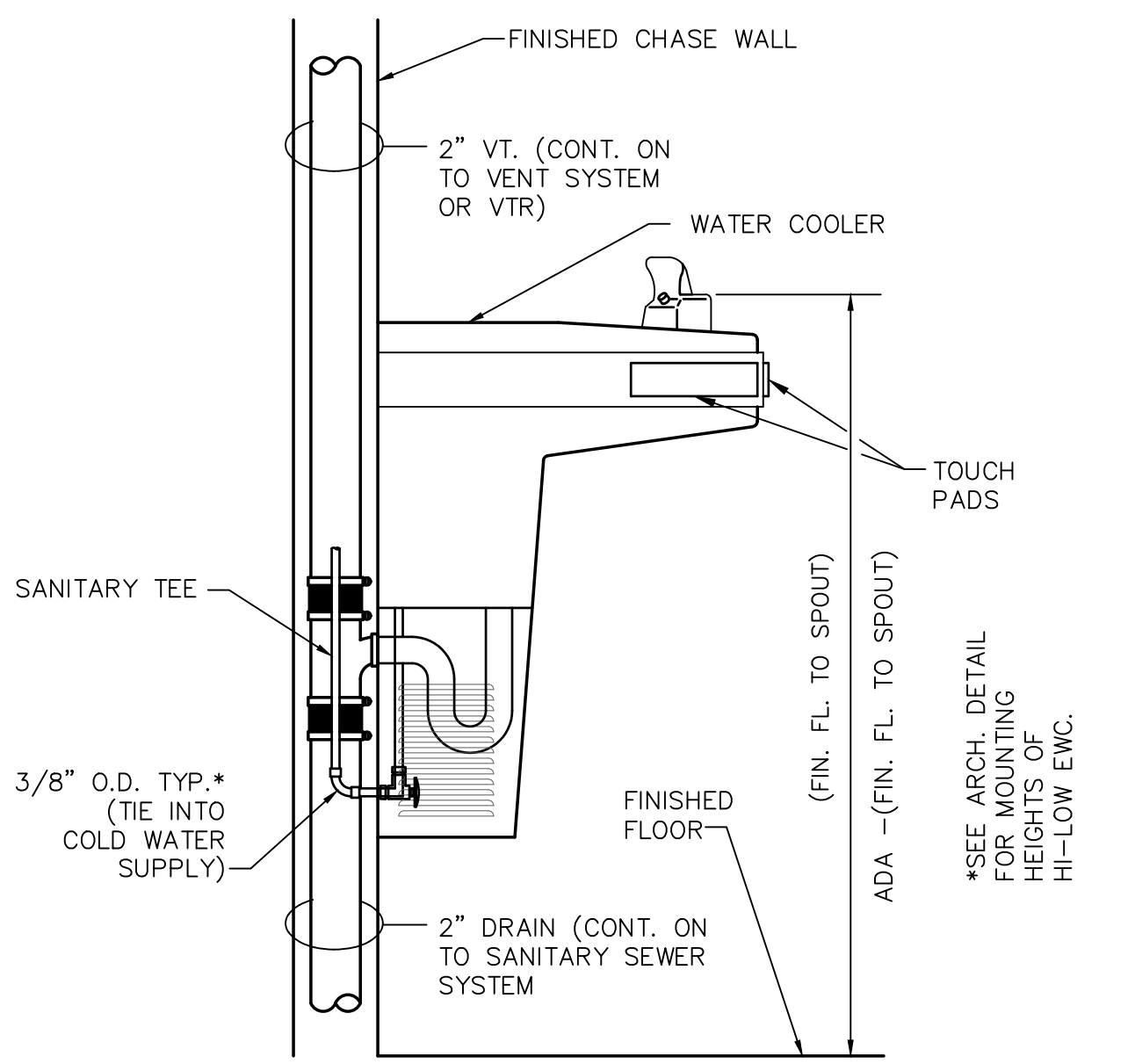
ELECTRIC WATER HEATER-RECIRCULATING TYPE
SCALE: NTS



ELECTRIC WATER HEATER
SCALE: NTS



FLOOR SINK
SCALE: NTS



ELECTRIC WATER COOLER
SCALE: N.T.S.

EWH SCHEDULE									
TAG	LOCATION	CAP	ELEMENT	TEMP	RCVY @ 60° RISE	MFR / MODEL no.	ELECT'L	NOTES	
EWH 1	ROOM 839	120	(2) 6000 W	110	41 GAL	A.O. SMITH No. DEN-120	480V 1F 12.5A	1,2,3,4,5	
EWH 2	ROOM 841	40	(2) 4500 W	110	27 GAL	A.O. SMITH No. DEN-40	480V 1F 9.4A	1,2,3,4,5	
EWH 3	ROOM 5120	120	(2) 4500 W	110	27 GAL	A.O. SMITH No. DEN-52	480V 1F 9.4A	1,2,3,4,5	
EWH 4	ROOM 261	50	(2) 6000 W	110	41 GAL	A.O. SMITH No. DEN-120	208V 1F 28.8A	1,2,3,4,5	
EWH 5	ROOM 261	120	(2) 6000 W	110	41 GAL	A.O. SMITH No. DEN-120	208V 1F 28.8A	1,2,3,4,5	
EWH 6	ROOM BESIDE 147	20	(2) 4500 W	110	27 GAL	A.O. SMITH No. DEN-20	208V 1F 21.6A	1,2,3,4,5	

NOTES:
 1) STATE INDUSTRIES, LOONHAR, OR RHEIN/ARJUD MEETING OR EXCEEDING SPECIFICATIONS ARE ACCEPTABLE SUBSTITUTES
 2) PROVIDE BRASS BODY RECIRCULATION PUMP RATED FOR 8 GPM @ 10' HEAD, 1/2" ID, 115V, 150V, 150V, 150V OR EQUAL BY TAG OR AMEASUREMENTS.
 3) PROVIDE EWH WITH NON-SIMULTANEOUS DUAL ELEMENTS SIZED AS SPECIFIED
 4) SEE DETAIL FOR ACCESSORIES
 5) WATER HEATER SHALL COMPLY WITH SECTION 504 OF THE NORTH CAROLINA ENERGY CODE.

ABBREVIATIONS:
 CAP = STORAGE CAPACITY (gal)
 ELEMENT = (gal) WATTAGE
 TEMP = IN. OUTPUT TEMPERATURE (deg F)
 RCVY = RECOVERY @ 100 DEG F RISE (gal)
 POU = POINT OF USE WATER HEATER

PLUMBING FIXTURE SCHEDULE							
ITEM	DESCRIPTION	FINISH	COLD	HOT	VENT	WASTE	ADA
WC	WATER CLOSET - KOHLER "VEIL" ONE-PIECE WALL-HUNG FLUSH VALVE WC K-6299	WHITE			2"	4"	YES
	SEAT - KOHLER K-4008 ELONGATED QUIET-CLOSE TOILET SEAT	WHITE					YES
	FLUSH VALVE - ZURN TOUCHLESS FLUSHMETER WITH MANUAL OVERRIDE ZER6000AV-TM-WS1-DF OR EQUAL	CHROME	1"				
UR	URINAL - WHITE VITREOUS CHINA, WALL HUNG, KOHLER "FRESHMAN" K-4989-T-0	WHITE			1-1/2"	2"	YES
	FLUSH VALVE - ZURN TOUCHLESS SENSOR VALVE Z6003AV-WS1 OR EQUAL	CHROME	3/4"				YES
LAV	LAVATORY - KOHLER "HUDSON" WALL HUNG LAVATORY MODEL NO. K-2867 ENAMELED CAST IRON				2"	3"	
	FAUCET - MOEN 8414 SINGLE HANDLE FAUCET (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION.)		3/4"	3/4"			
SH	SHOWER-ADA COMPLIANT WHITE ACRYLIC SHOWER INSERT WITH INTEGRAL STAINLESS STEEL GRAB BAR AND WITH STAINLESS STEEL, WOOD GRAIN/PHENOLIC FOLDING SEAT. HAND SHOWER-SYMONS 96-500-B30-L-V PRESSURE BALANCING WITH ADJUSTABLE AND STATIONARY SHOWER HEAD (OR EQUAL FROM MANUFACTURERS SPECIFICATIONS).	BY ARCH.			2"	2"	YES
MB	MOP SINK - MOEN 8414 SINGLE HANDLE FAUCET					3"	
	FAUCET - MOEN MOP SINK FAUCET M# B0108041 (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION.)		3/4"	3/4"			
EWC	ELECTRIC WATER COOLER IN HIGH LOW CONFIGURATION W/BOTTLE FILLER- ELKAY #LZSTLWSLCL-WSR (WITHOUT FILTER) 8 GPH @ 50 ° F WATER @ 80 ° F INLET WATER AND 90 ° F ROOM TEMPERATURE. (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS).	BY ARCH.	3/4"		1-1/2"	2"	YES
FD	FLOOR DRAIN - ZURN M# ZN15B WITH TYPE "B" STRAINER (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION)	NICK-BRZ					
FS	FLOOR SINK - PVC CONSTRUCTION WITH FULL GRATE ZURN FD2370-PV4-F (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)	NICK-BRZ				3"	
WCO	WALL-CLEAN-OUT - ZURN M# ZN-1441-BP (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION)	BRONZE					
CO	CLEAN-OUT IN FLOOR - ZURN MODEL # ZN-1444-BP WITH INSIDE CAULK CONNECTION (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)	BRONZE				2"	
LS	LAB SINK AND FAUCET BY GC AS PART OF LAB CASEWORK	CHROME	3/4"				
EEW	EMERGENCY EYE WASH - DRENCH HOSE UNIT, WALL MOUNTED	CHROME	1/2"				
EEWS	GUARDIAN MODEL# G5014 (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)						
	EMERGENCY EYE WASH/SHOWER COMBO - FLOOR MOUNTED SHOWER/EYE/FACE WASH STATION WITH STAINLESS STEEL ACTIVATION HANDLE AND STAINLESS STEEL BOWL	STAINLESS	1-1/4"			1-1/4"	
	GUARDIAN MODEL# G1950 (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)	STEEL					
HB	HOSE BIB - WOODFORD KEYLESS, NON-FREEZELESS, M # 24-C (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)	CHROME	3/4"				
AFH	WALL HYDRANT - WOODFORD SANITARY AUTOMATIC DRAINING FREEZELESS M# B85 (OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)	CHROME	3/4"				

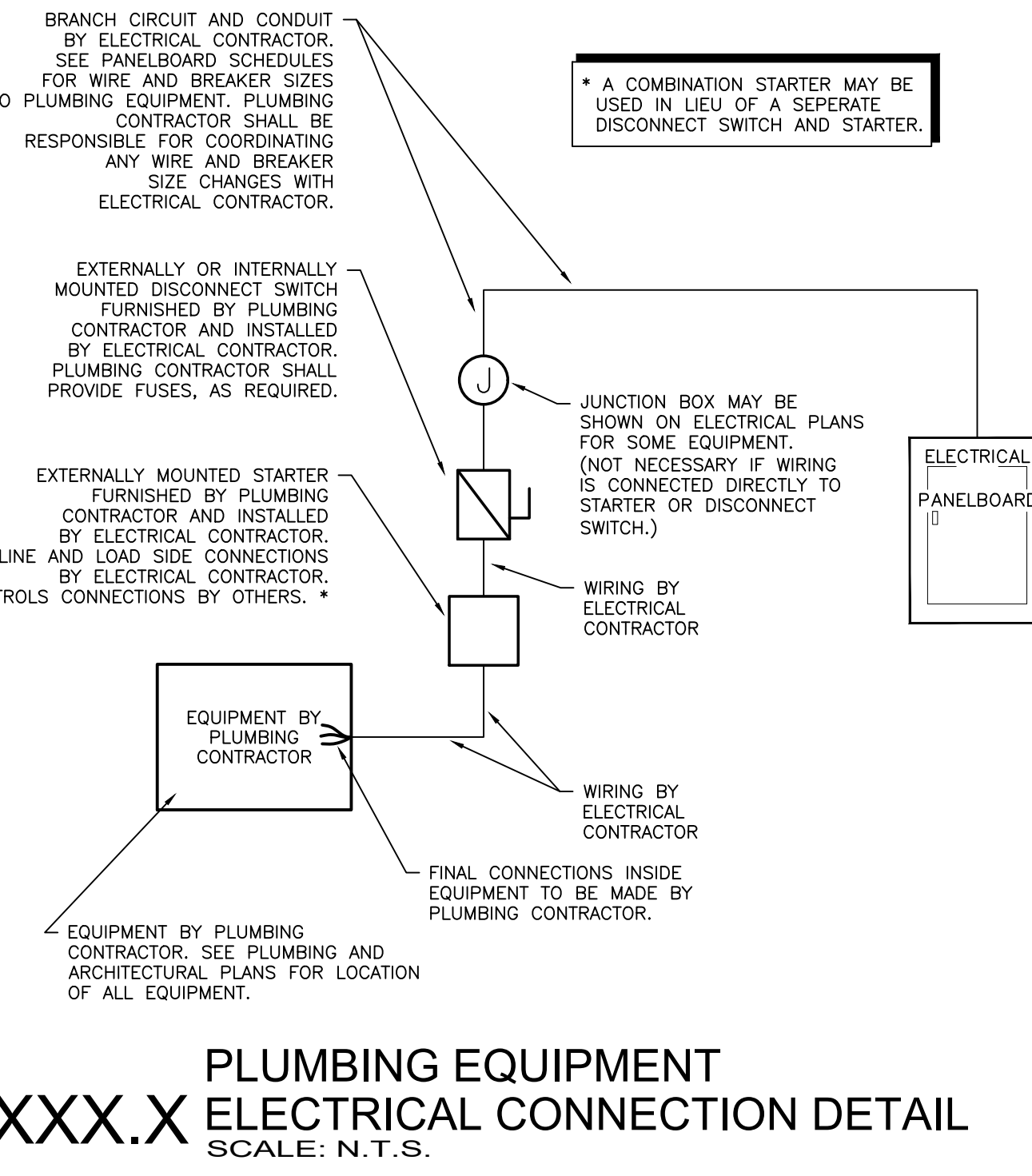
*MODEL NUMBERS ARE PROVIDED TO ESTABLISH A LEVEL OF QUALITY. EQUAL QUALITY PRODUCTS ARE ACCEPTABLE.

SCIENCE CLASSROOM FIXTURE CALCULATIONS JUSTIFICATION			
OCCUPANCY =	EDUCATION	MINIMUM PLUMBING FIXTURES FROM TABLE 403.1	
NET AREA FOR OCCUPANT CALC.:		TOTAL REQUIRED	TOTAL PROVIDED
CAPACITY OF BUILDING =	180 PEOPLE	MALE WC LAV 3	WC LAV 3
		UR 1	UR 3
		FEMALE WC LAV 4	WC LAV 6
		WC LAV 1	WC LAV 3
DIVISION OF FACILITIES PER SECTION 403.1.1:		STAFF WC LAV 1	WC LAV 2
MALE: 50%		DRINKING FOUNTAINS EWC 2	1 HI-LOW
FEMALE: 50%			
180 x .5 = 90 MALE			
180 - 90 = 90 FEMALE			

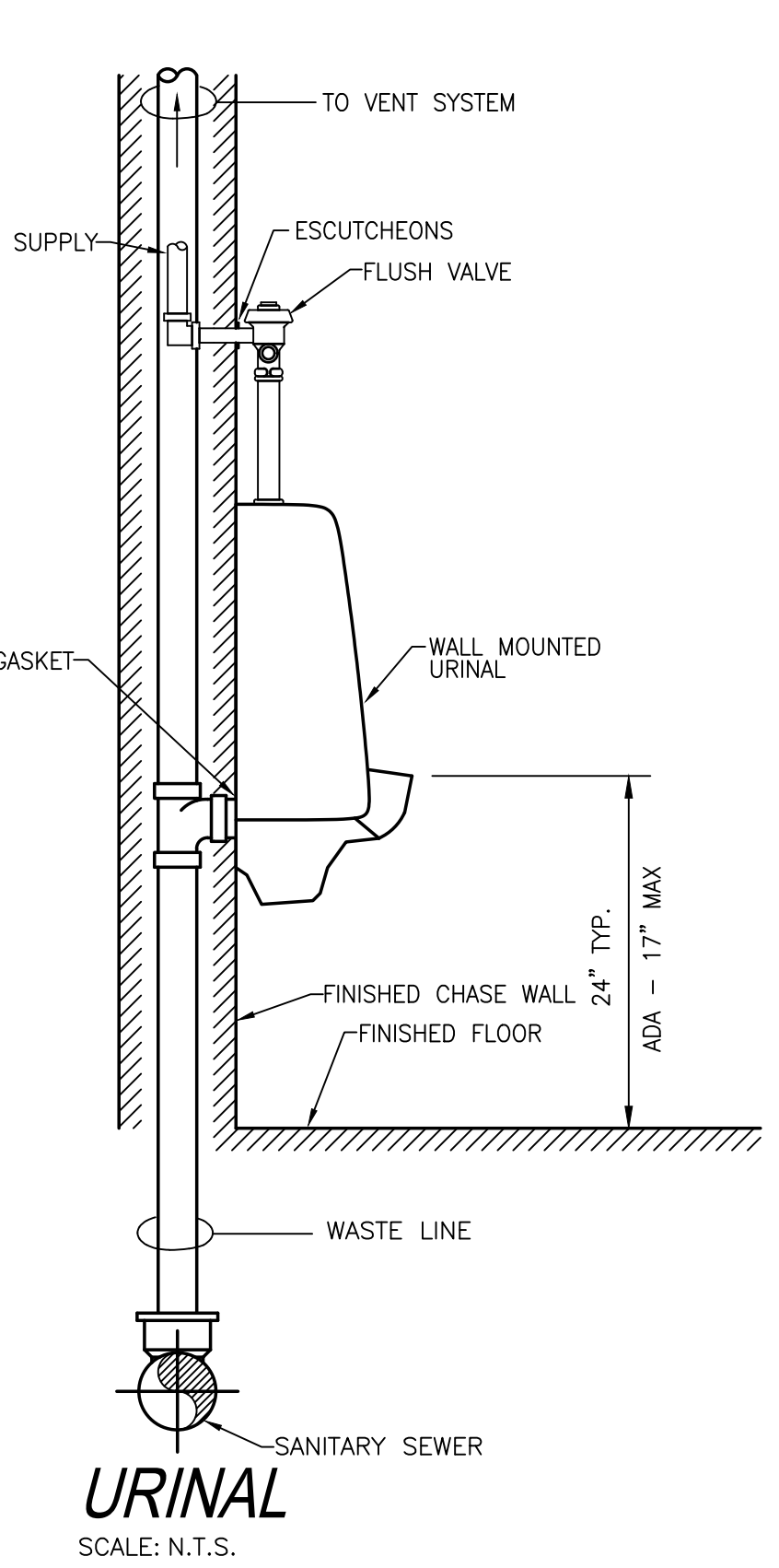
GYM ADDITION FIXTURE CALCULATIONS JUSTIFICATION			
OCCUPANCY =	(A3) ASSEMBLY/EDUCATION (9-12)	MINIMUM PLUMBING FIXTURES FROM TABLE 403.1	
NET AREA FOR OCCUPANT CALC.:		TOTAL REQUIRED	TOTAL PROVIDED
CAPACITY OF BUILDING =	800 PEOPLE	MALE WC LAV 4	WC LAV 3
		UR 2	UR 3
		FEMALE WC LAV 2	WC LAV 6
		WC LAV 2	WC LAV 3
DIVISION OF FACILITIES PER SECTION 403.1.1:		STAFF WC LAV -	WC LAV -
MALE: 50%		DRINKING FOUNTAINS EWC 2	1 HI-LOW
FEMALE: 50%			
800 x .5 = 400 MALE			
800 - 40 = 400 FEMALE			

EXISTING GYM MEN'S LOCKER ROOM ADD'N FIXTURE CALCULATIONS JUSTIFICATION			
OCCUPANCY =	EDUCATION	MINIMUM PLUMBING FIXTURES FROM TABLE 403.1	
NET AREA FOR OCCUPANT CALC.:		TOTAL REQUIRED	TOTAL PROVIDED
CAPACITY OF BUILDING =	PEOPLE	MALE WC LAV 3	WC LAV 9
		UR 10	UR 13
		FEMALE WC LAV -	WC LAV -
		WC LAV -	WC LAV -
DIVISION OF FACILITIES PER SECTION 403.1.1:		STAFF WC LAV -	WC LAV -
MALE: 50%		DRINKING FOUNTAINS EWC 2	1 HI-LOW
FEMALE: 50%			
00 x .5 = 00 FEMALE			
00 - 0 = 00 MALE			

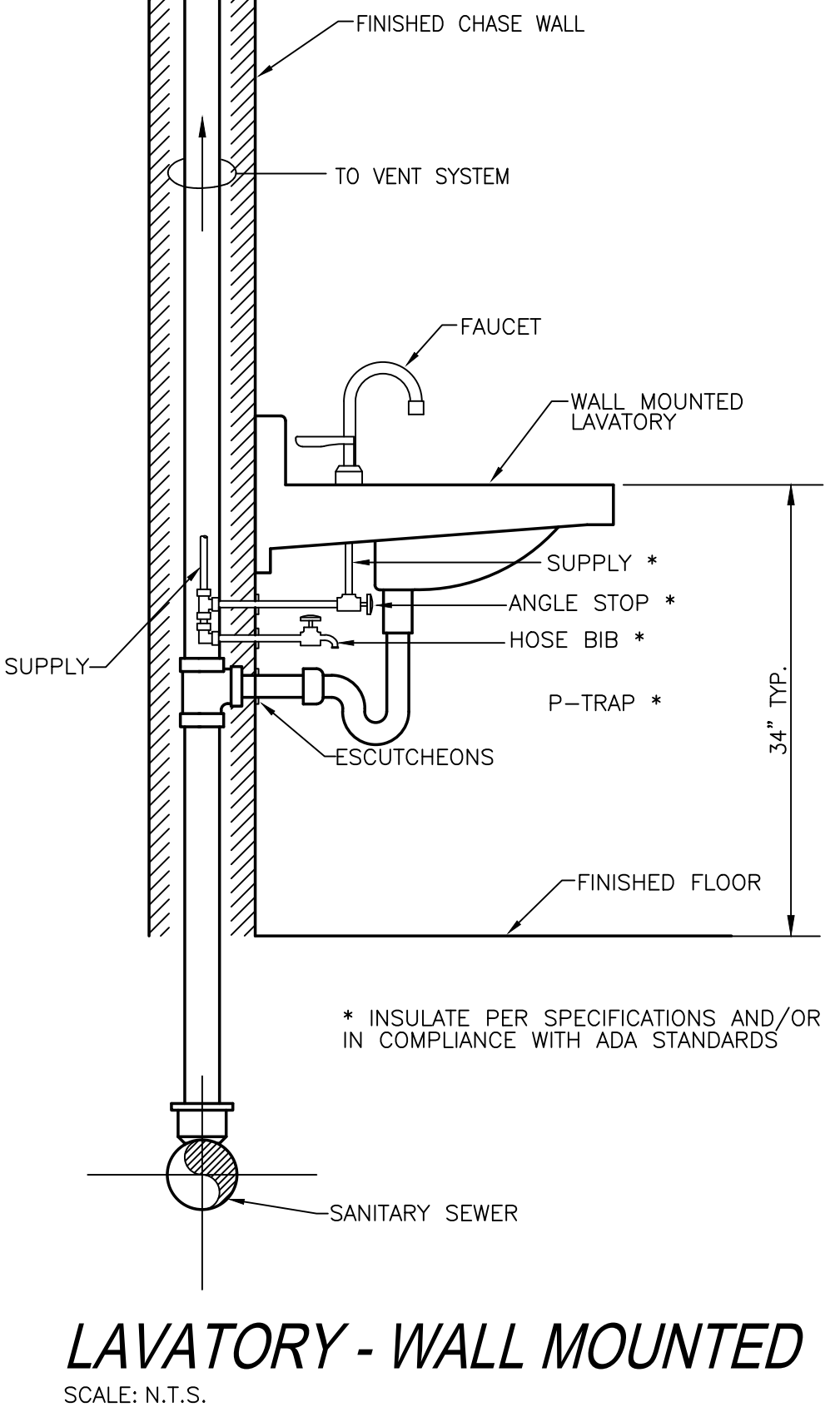
FIXTURE UNIT REQUIREMENTS	
POTABLE WATER SUPPLY	67.5 GPM USE 3" SERVICE
WASTE	555 FU USE 8" SERVICE



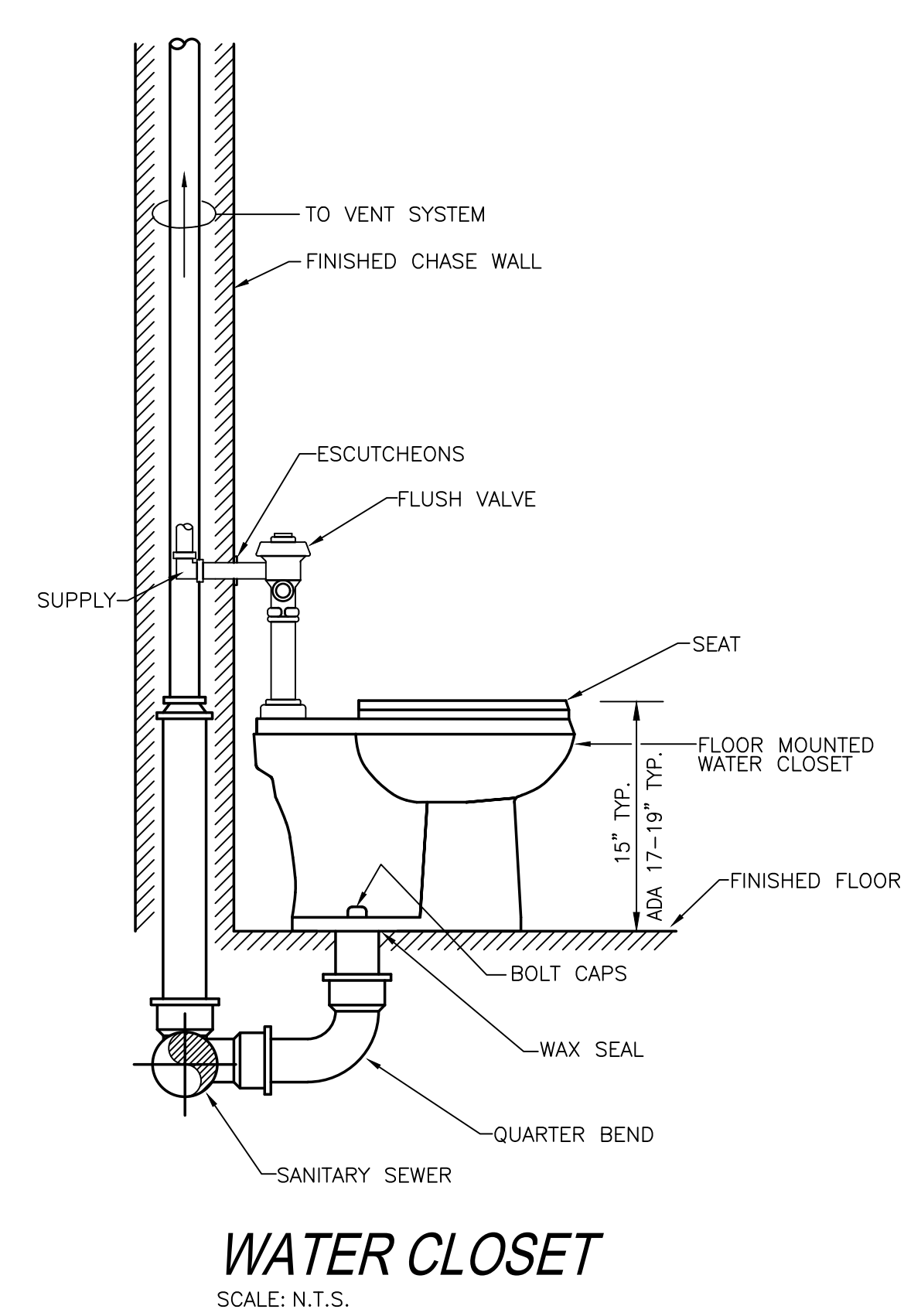
PLUMBING EQUIPMENT XXX.X ELECTRICAL CONNECTION DETAIL
SCALE: N.T.S.



URINAL
SCALE: N.T.S.

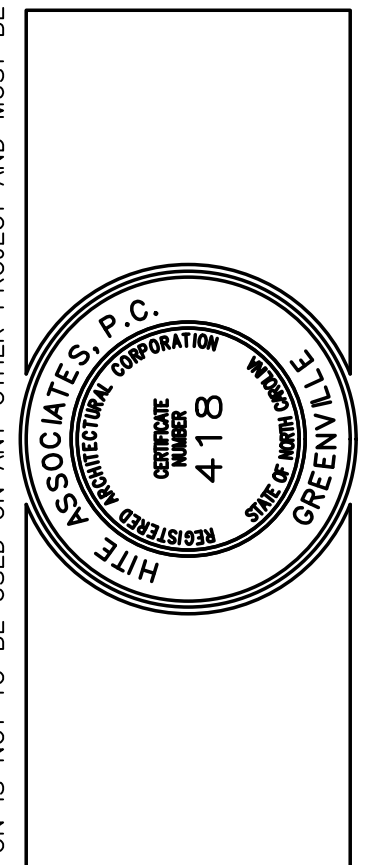


LAVATORY - WALL MOUNTED
SCALE: N.T.S.



WATER CLOSET
SCALE: N.T.S.

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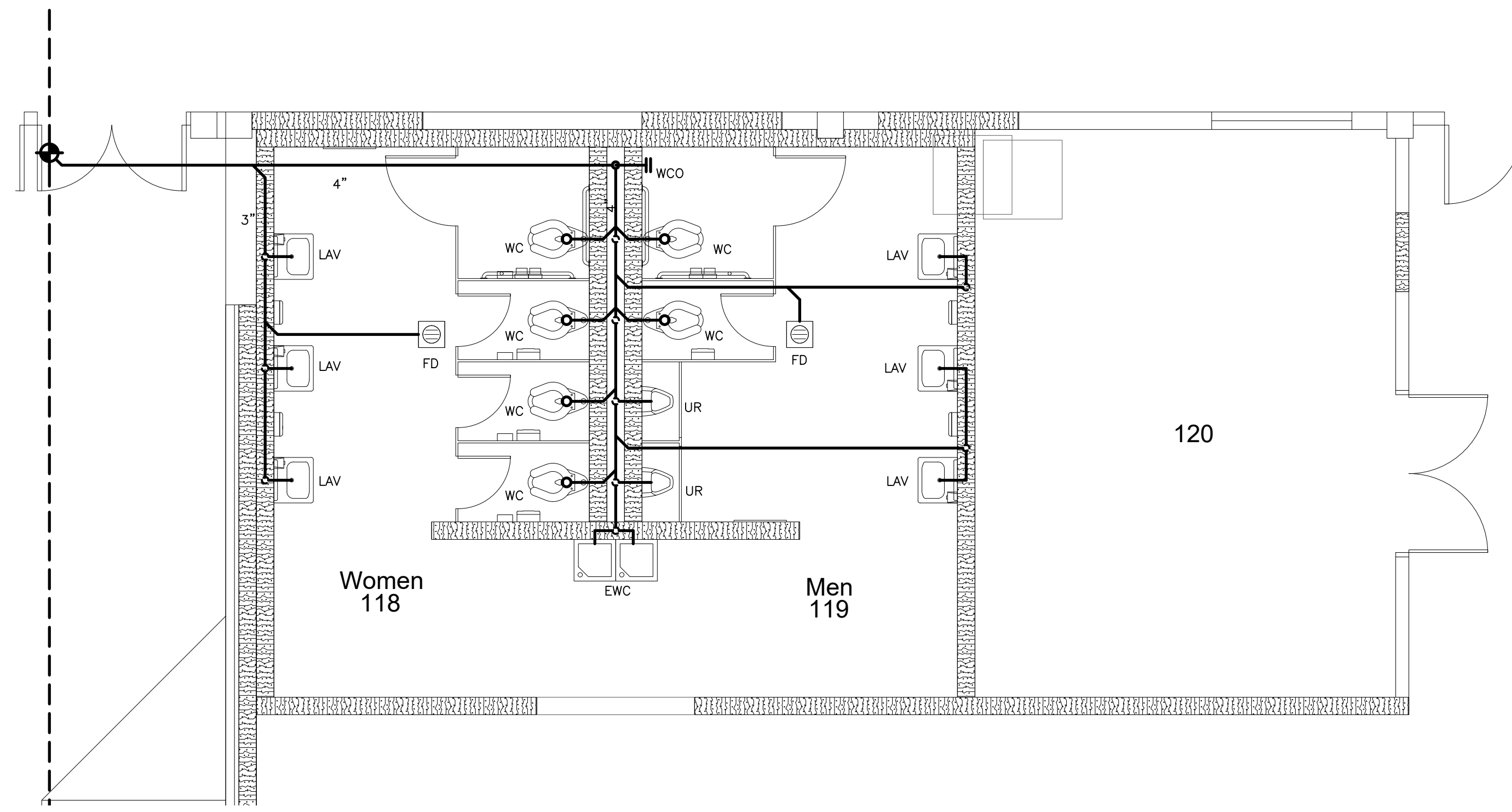


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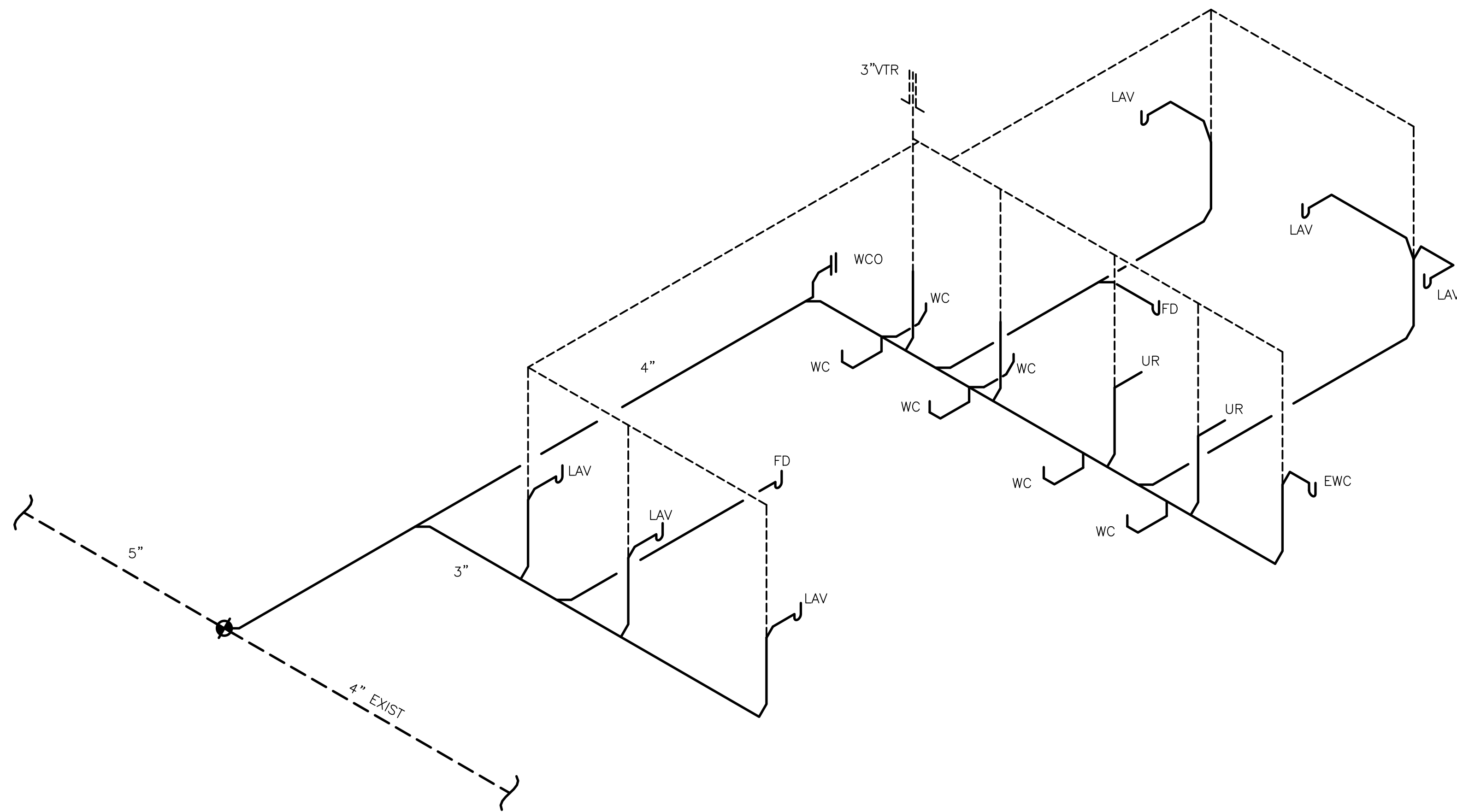
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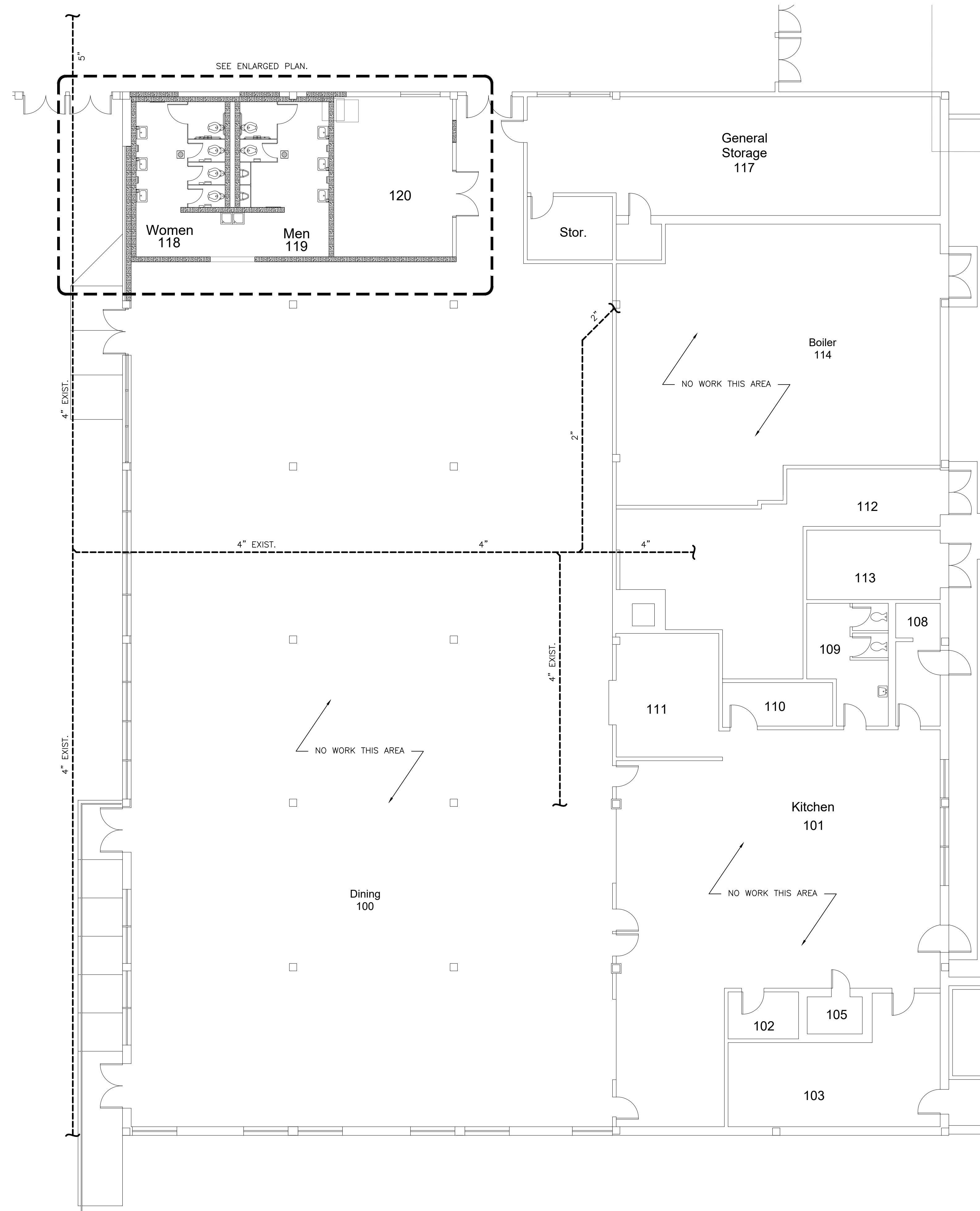
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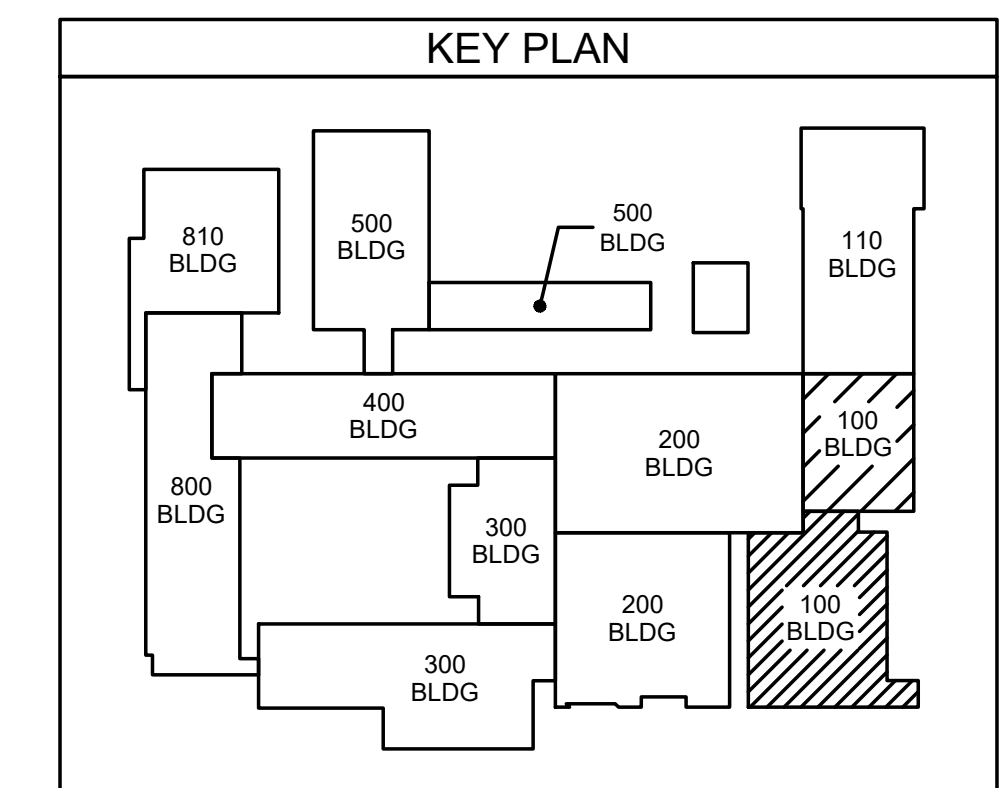
101.2 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



101.3 DWV RISER DIAGRAM
SCALE: N.T.S



101.1 CAFETERIA ROOM SANITARY SEWER PLAN
SCALE: 1/8" = 1'-0"

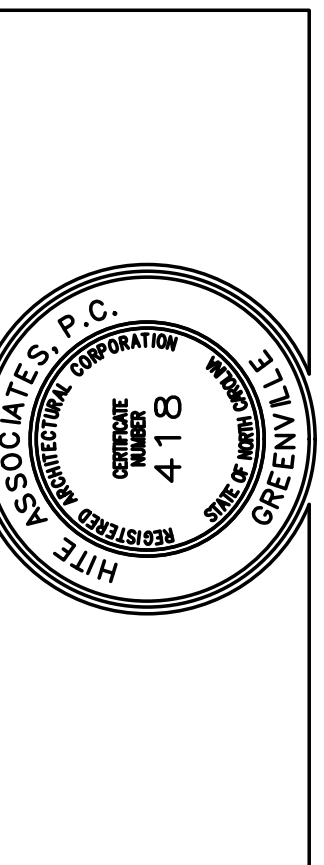


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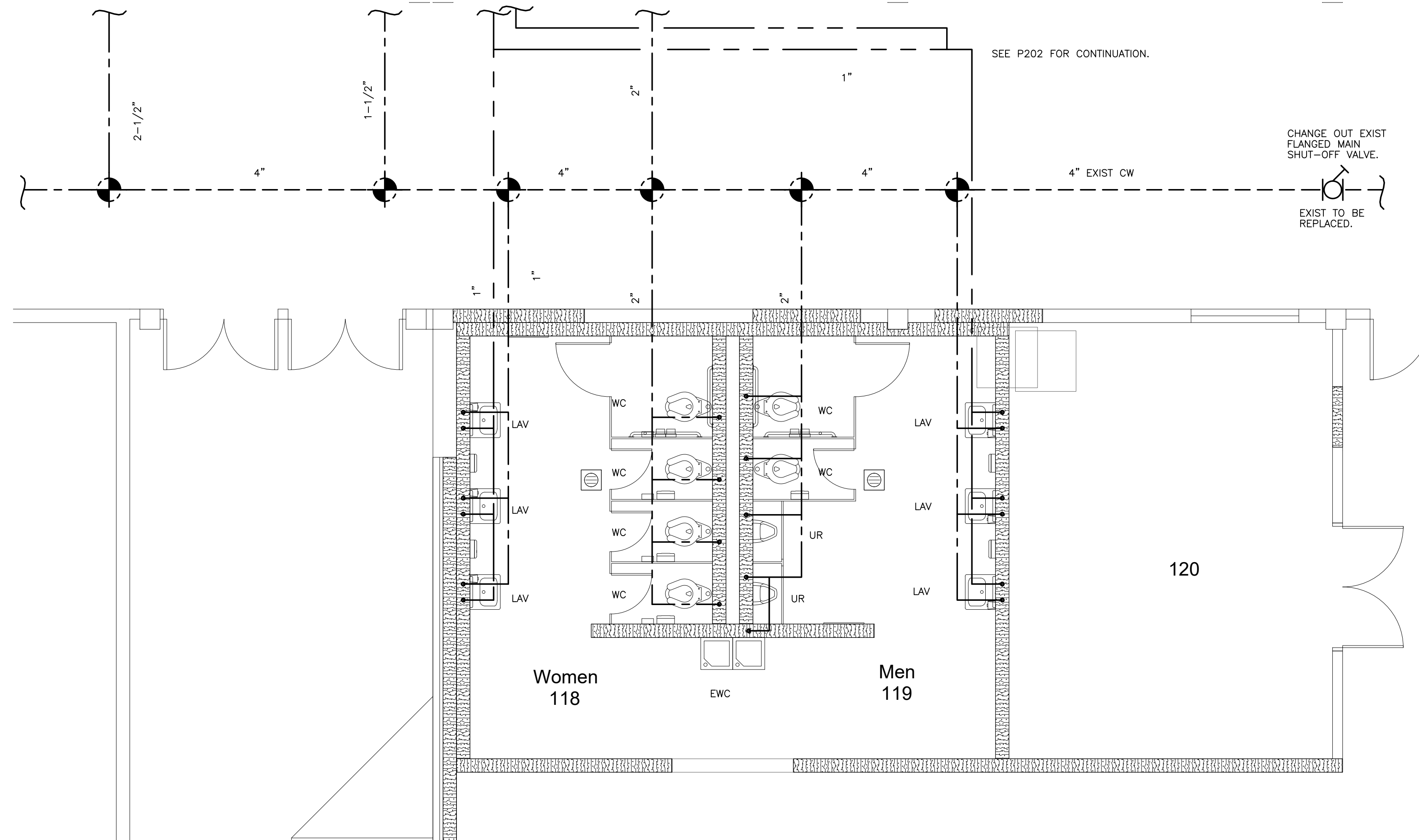
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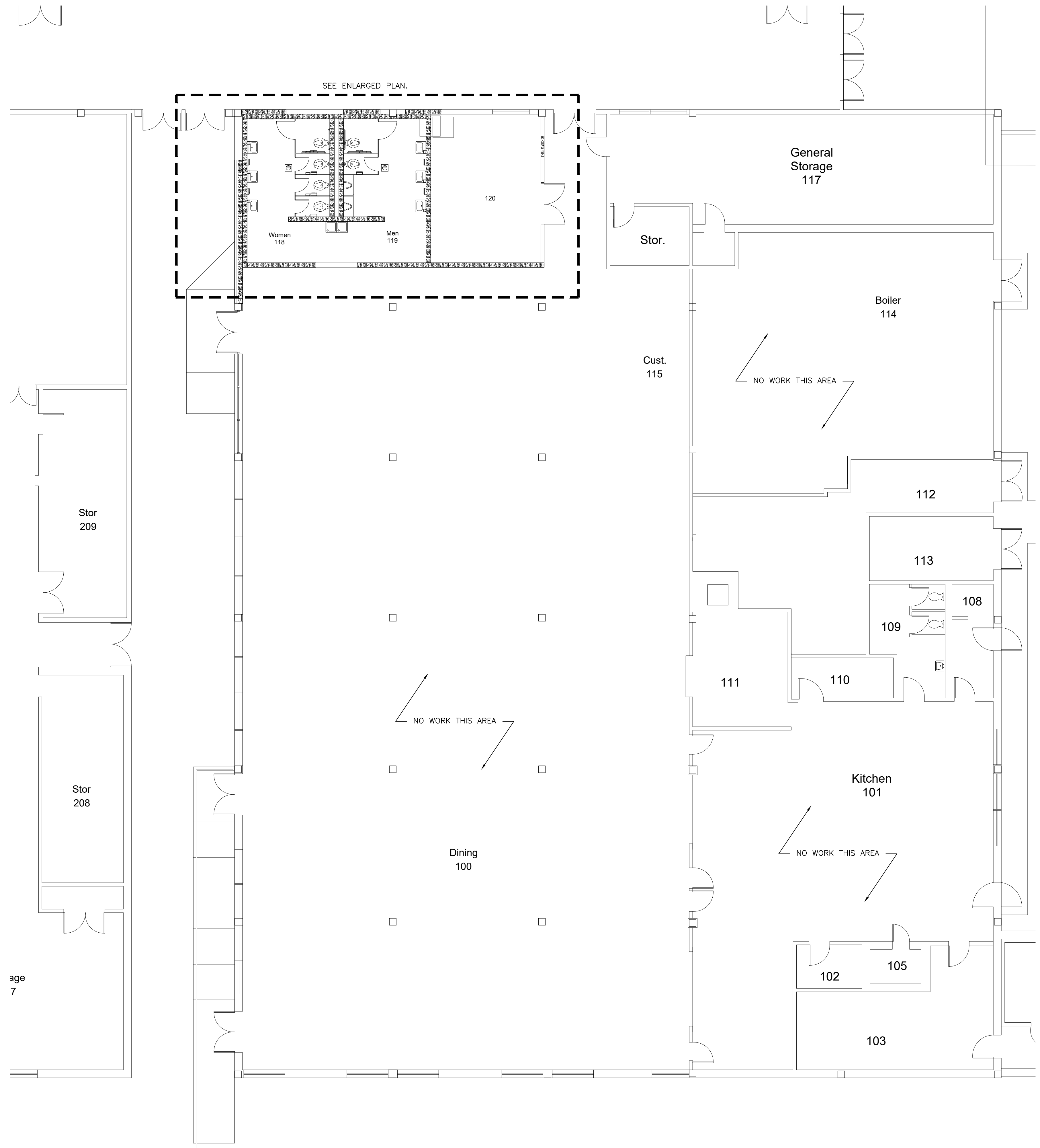
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Project No. 22112
 Date: 03 Oct 2023
 Drawing no. **P 101**

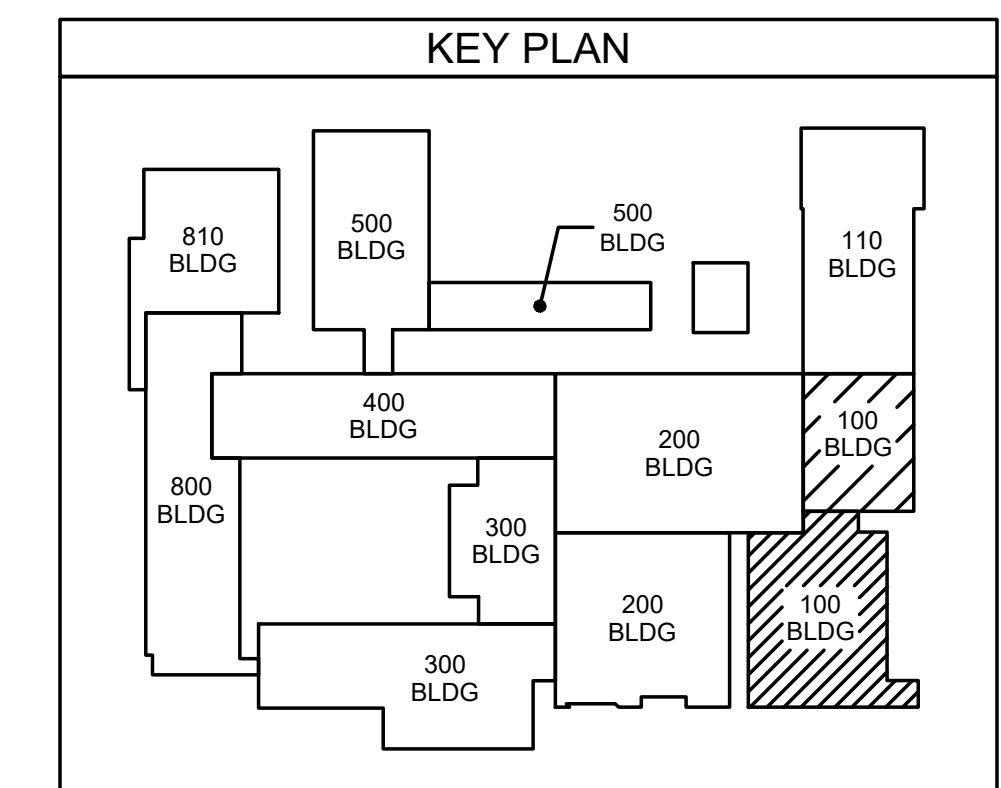
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102.2 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



102.1 CAFETERIA ROOM POTABLE WATER PLAN
SCALE: 1/8" = 1'-0"

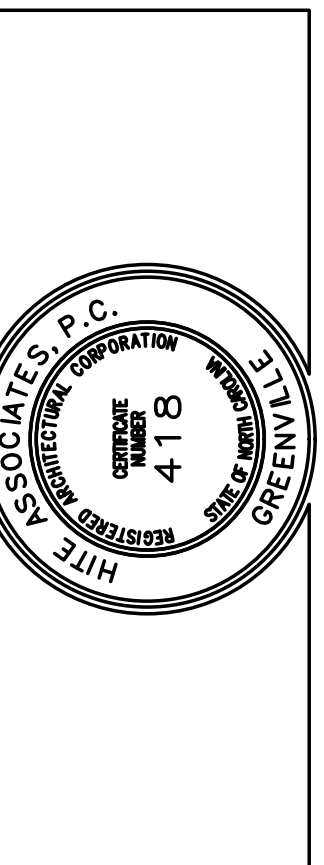


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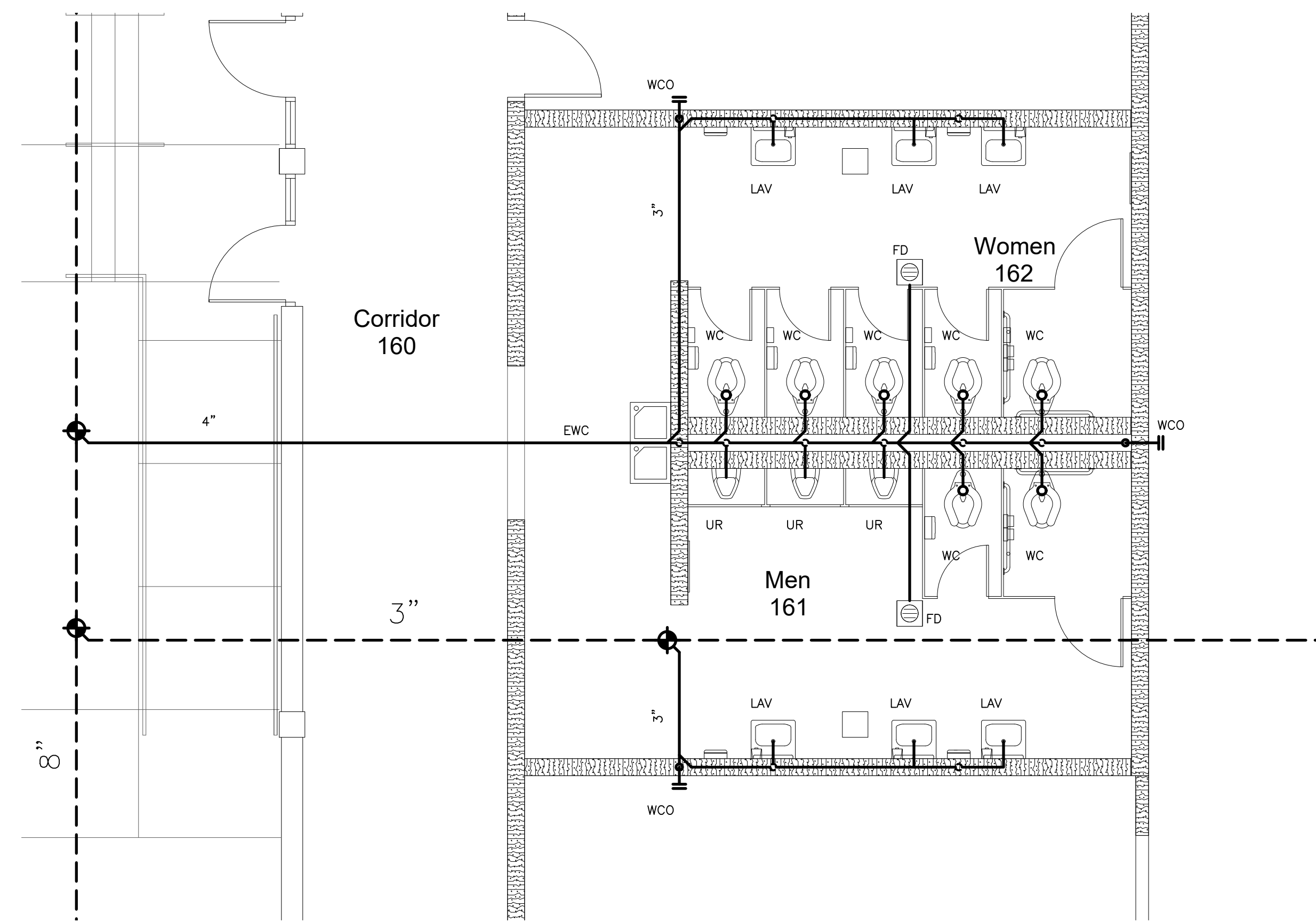
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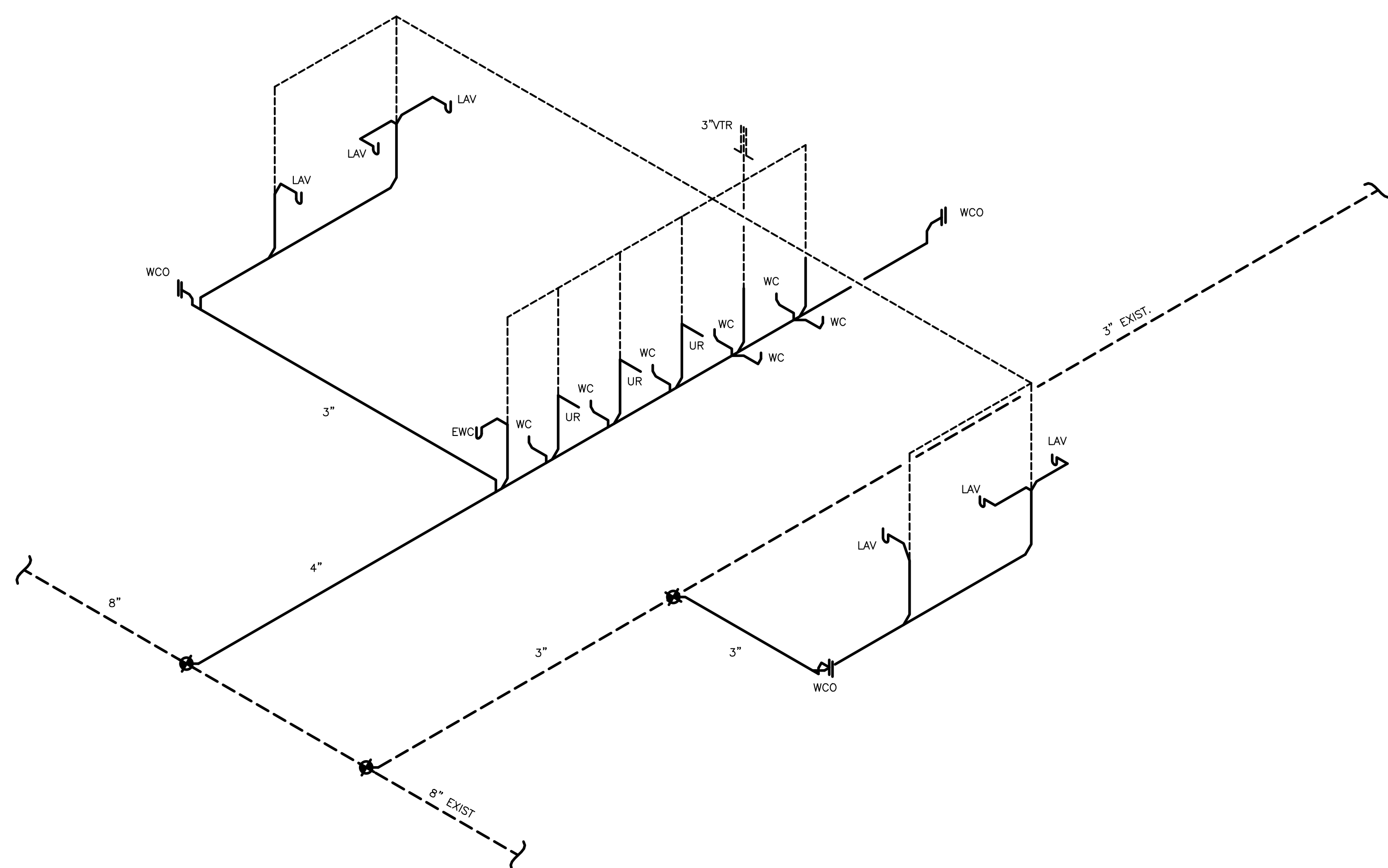
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Date: 03 Oct 2023
Drawing no. **P 102**

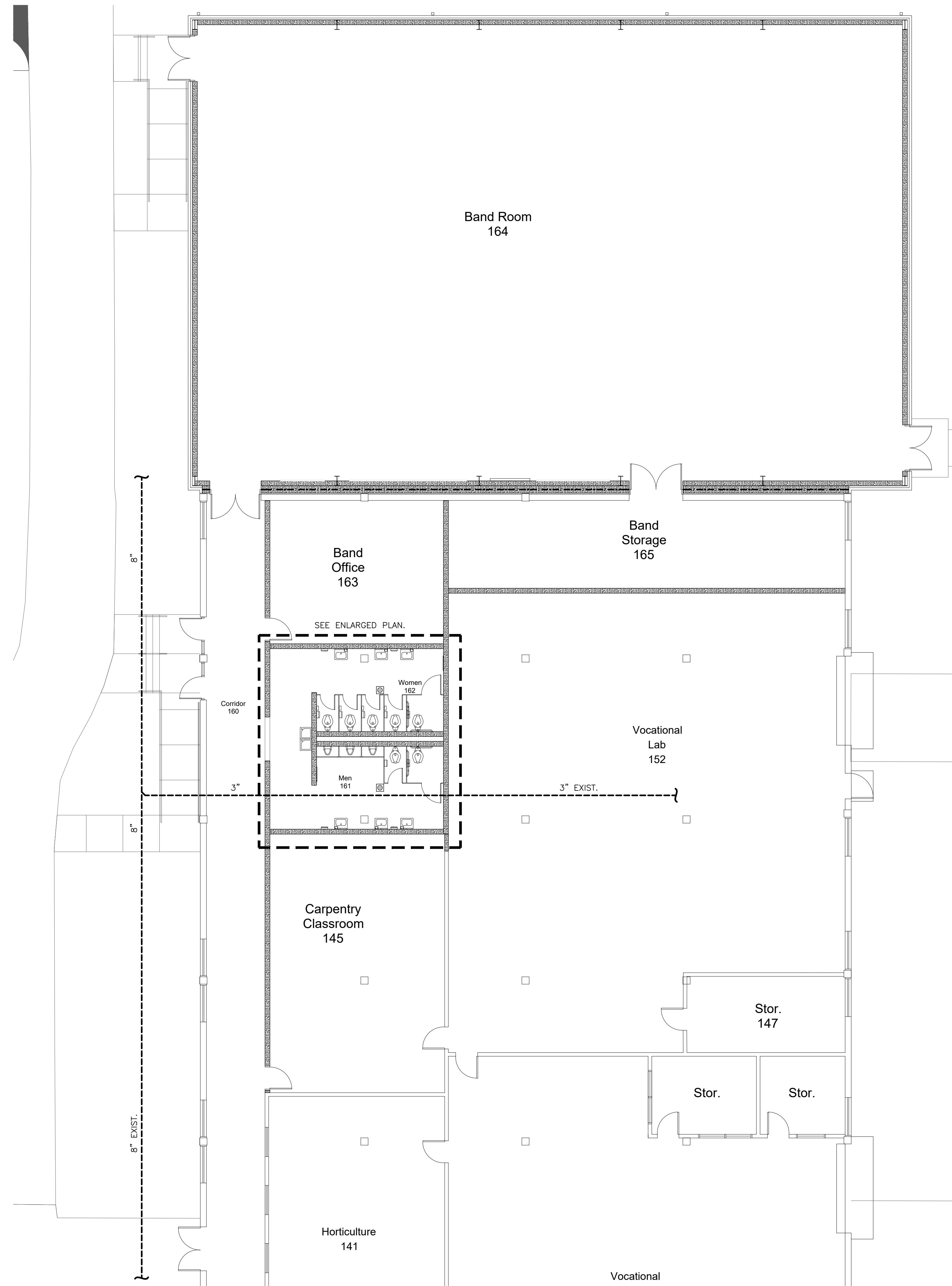
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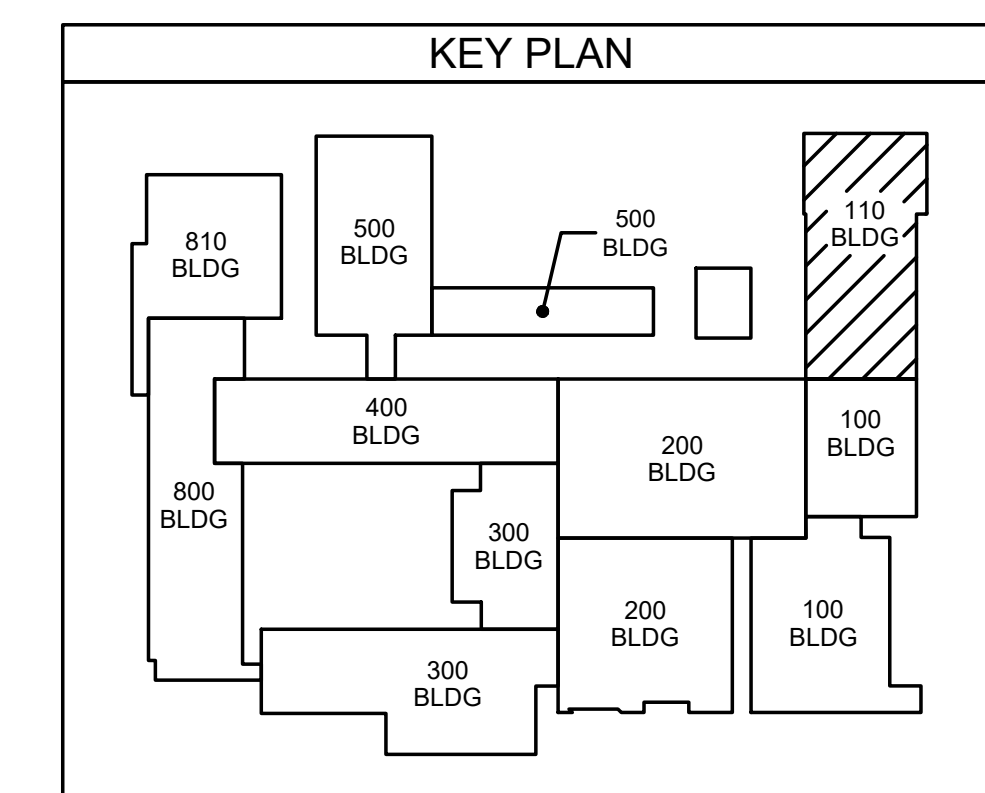
111.2 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



111.3 DWV RISER DIAGRAM
SCALE: N.T.S



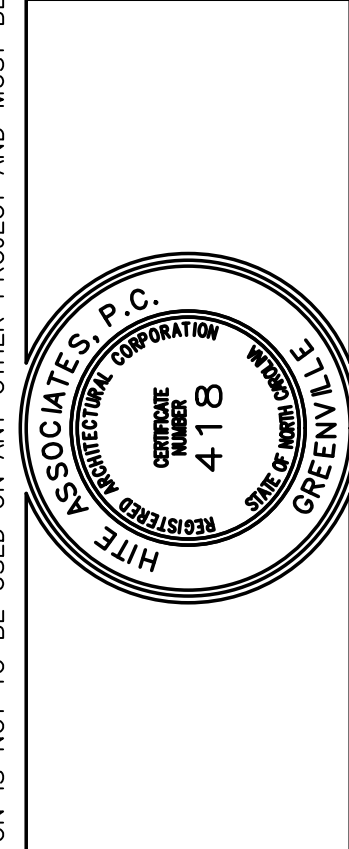
111.1 VOCATIONAL WING SANITARY SEWER PLAN
SCALE: 1/8" = 1'-0"



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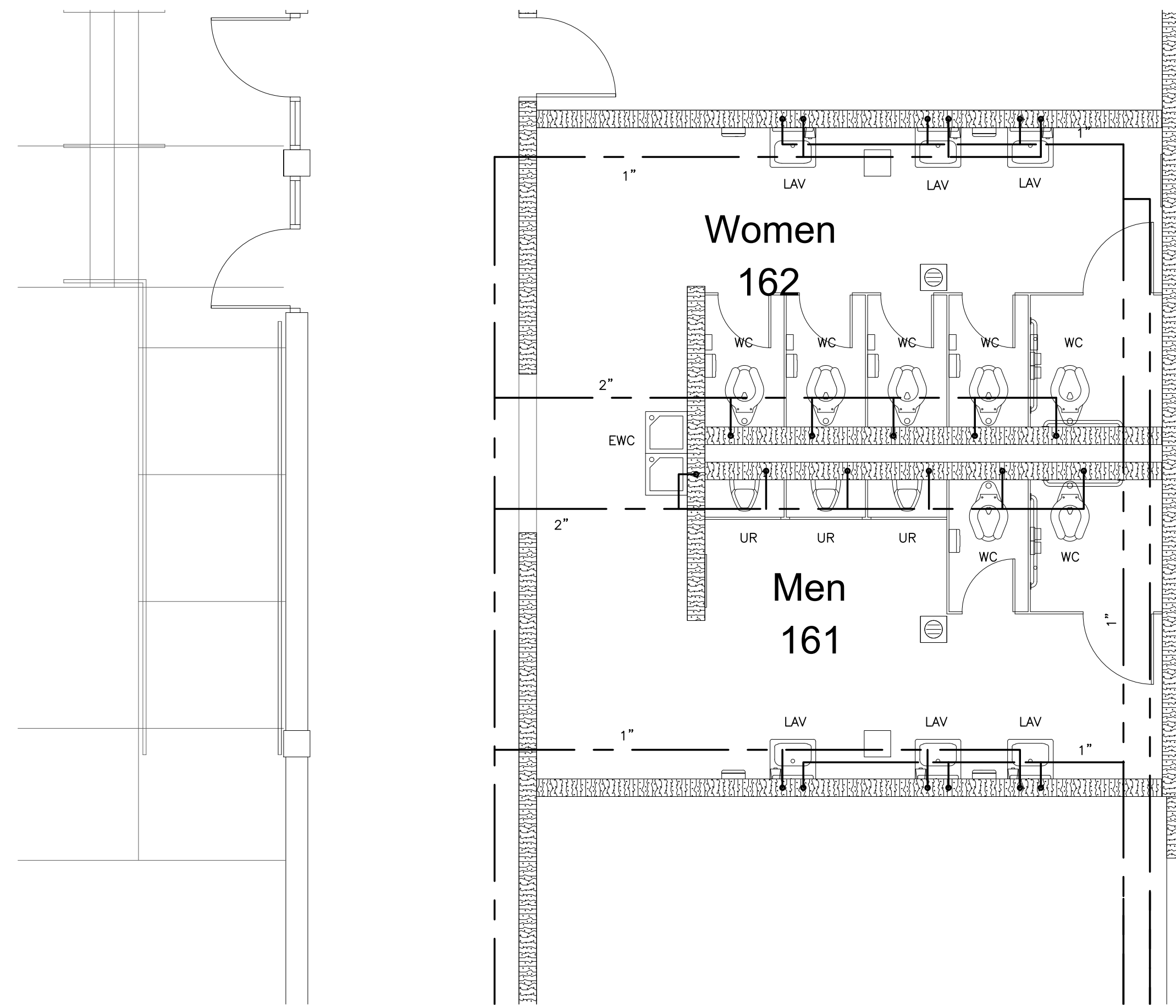
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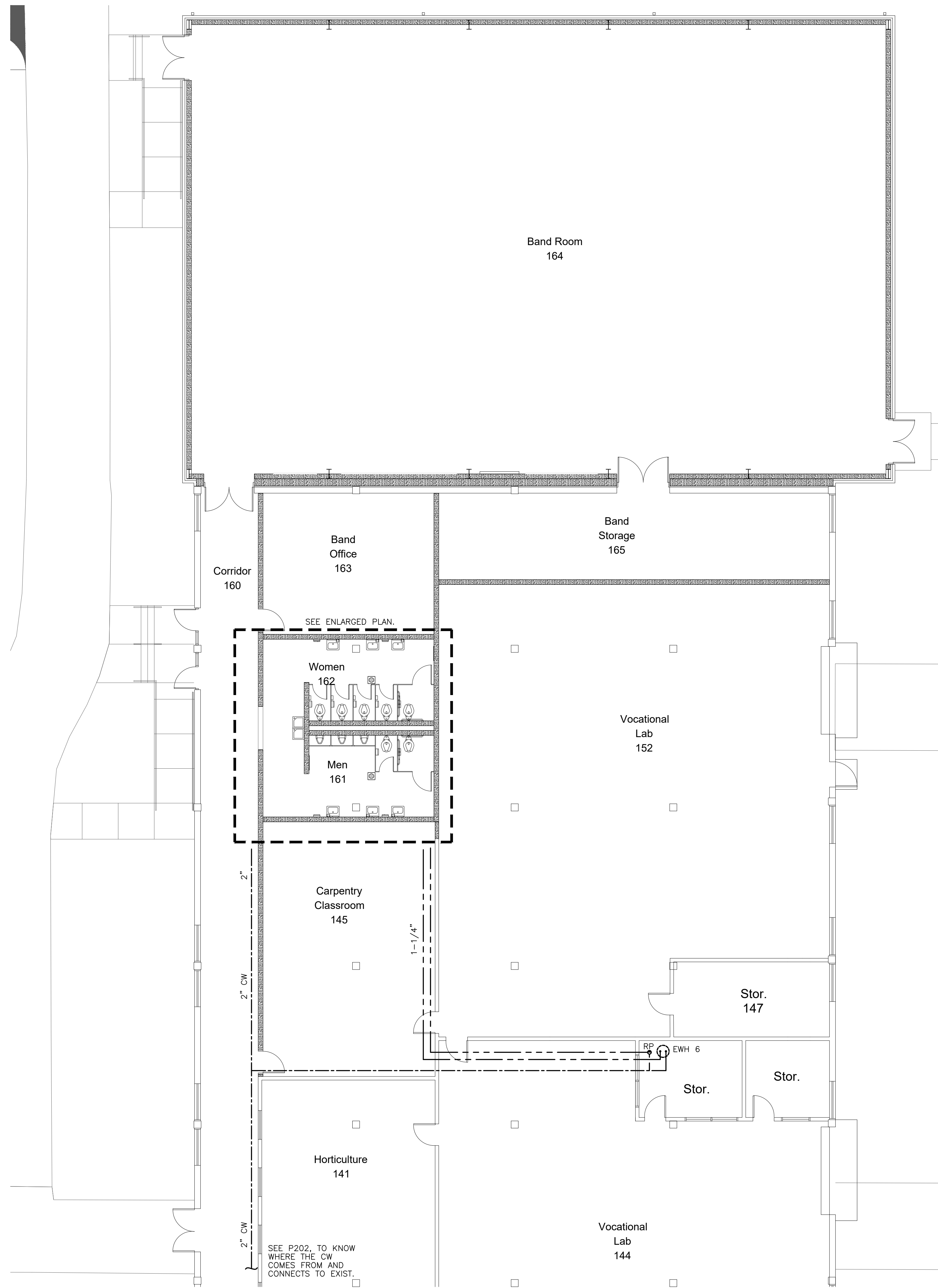
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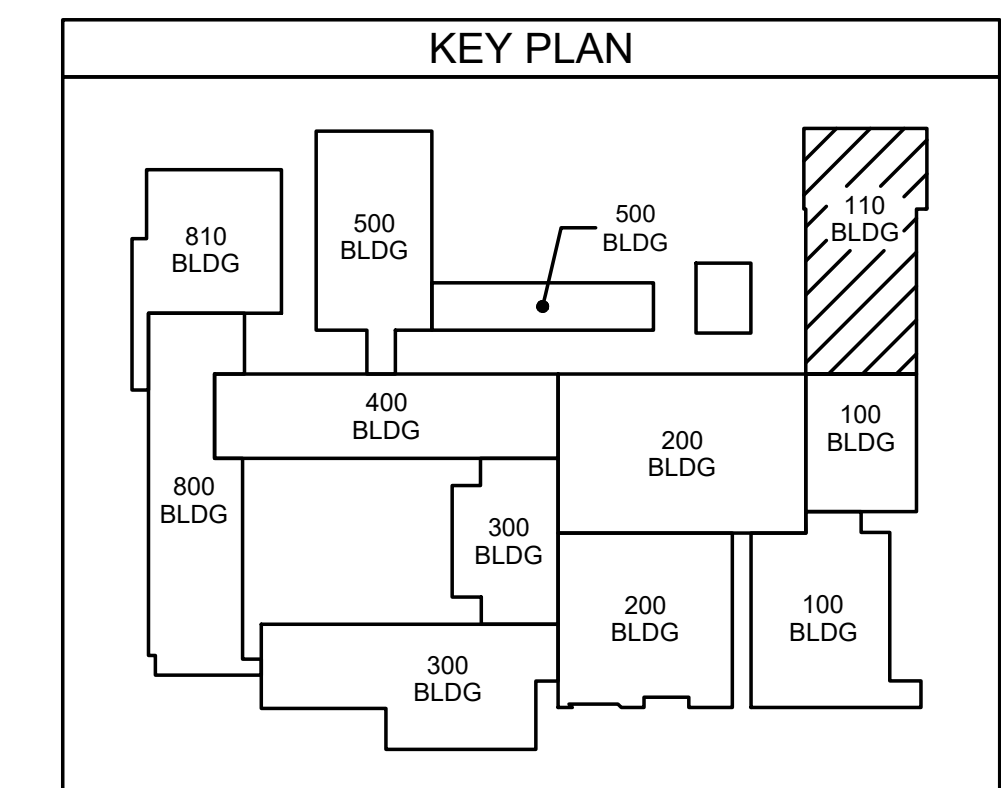
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112.2 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



112.1 VOCATIONAL WING POTABLE WATER PLAN
SCALE: 1/8" = 1'-0"



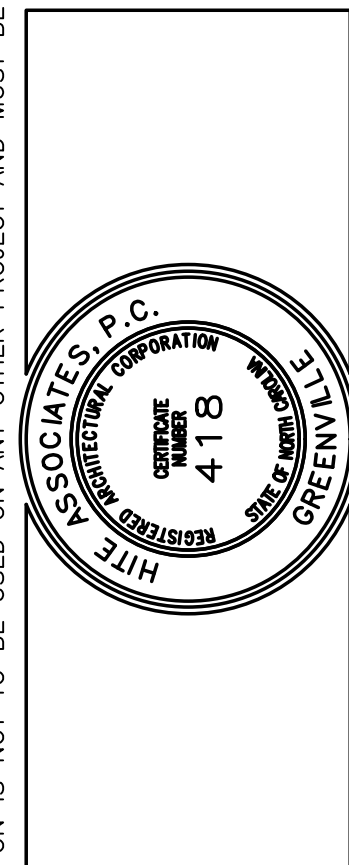
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REGISTERED PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA
NO. 4118
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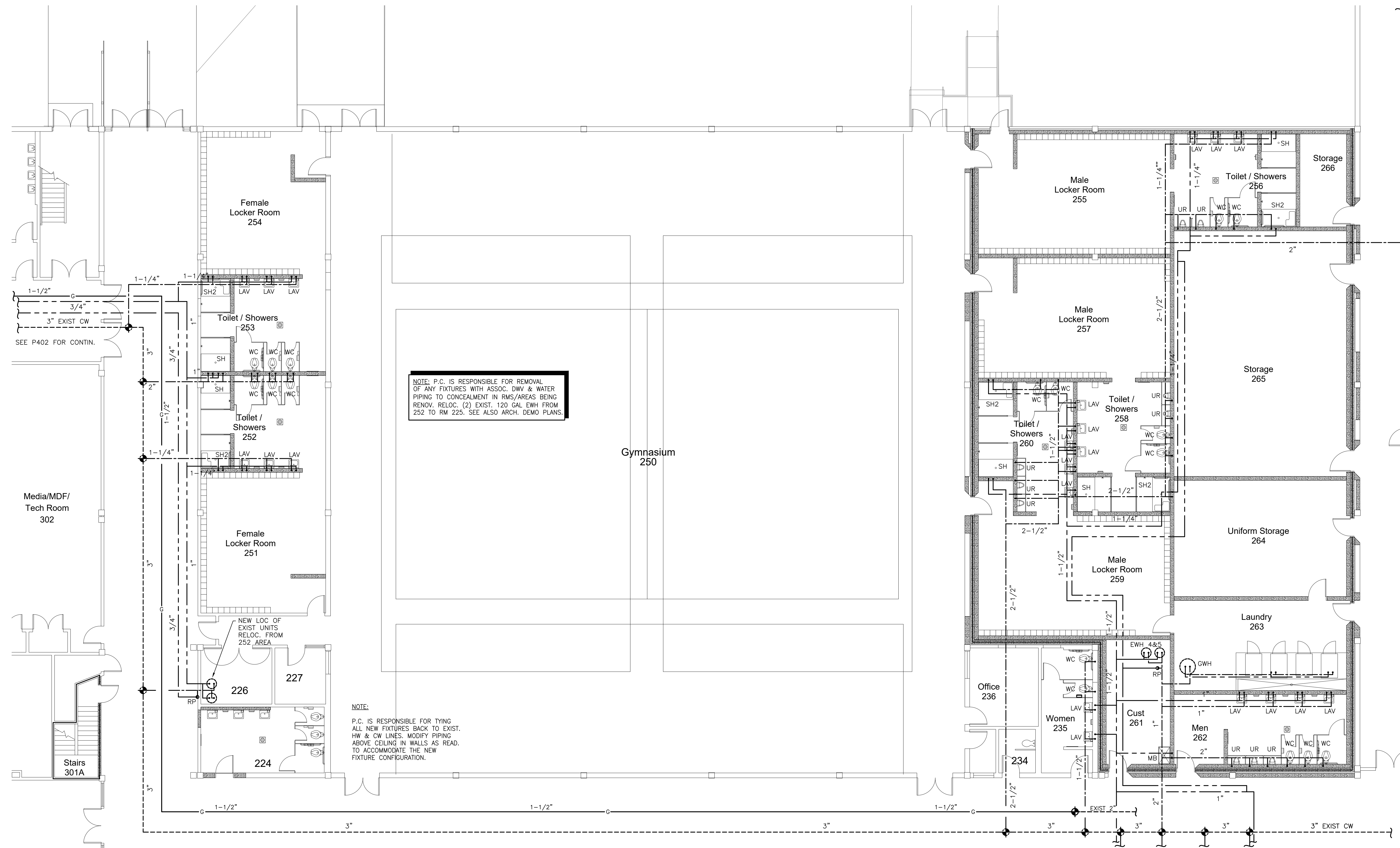
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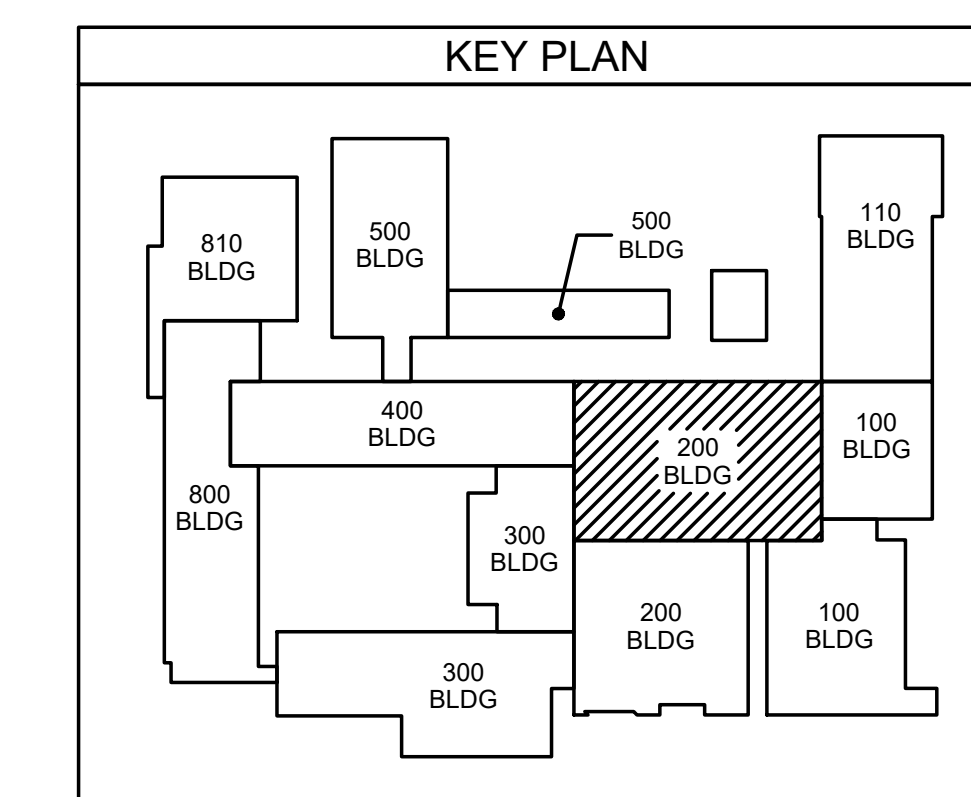
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202.1 LOCKER ROOM ADD'N POTABLE WATER PLAN
SCALE: 1/8" = 1'-0"

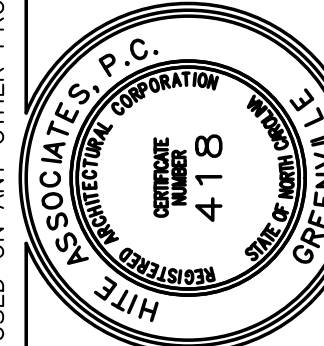


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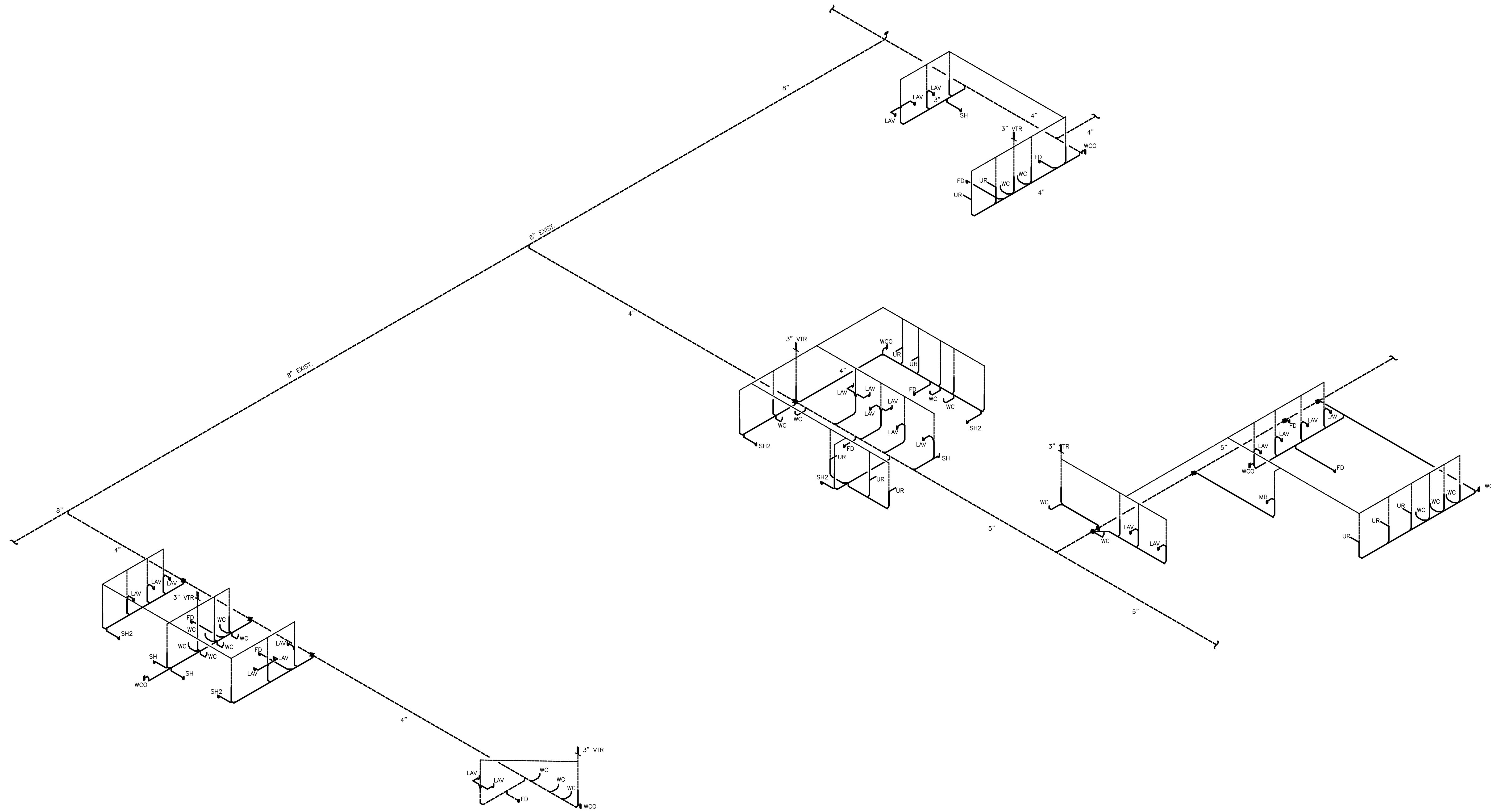
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 Date: 03 Oct 2023
 Drawing no. **P 202**

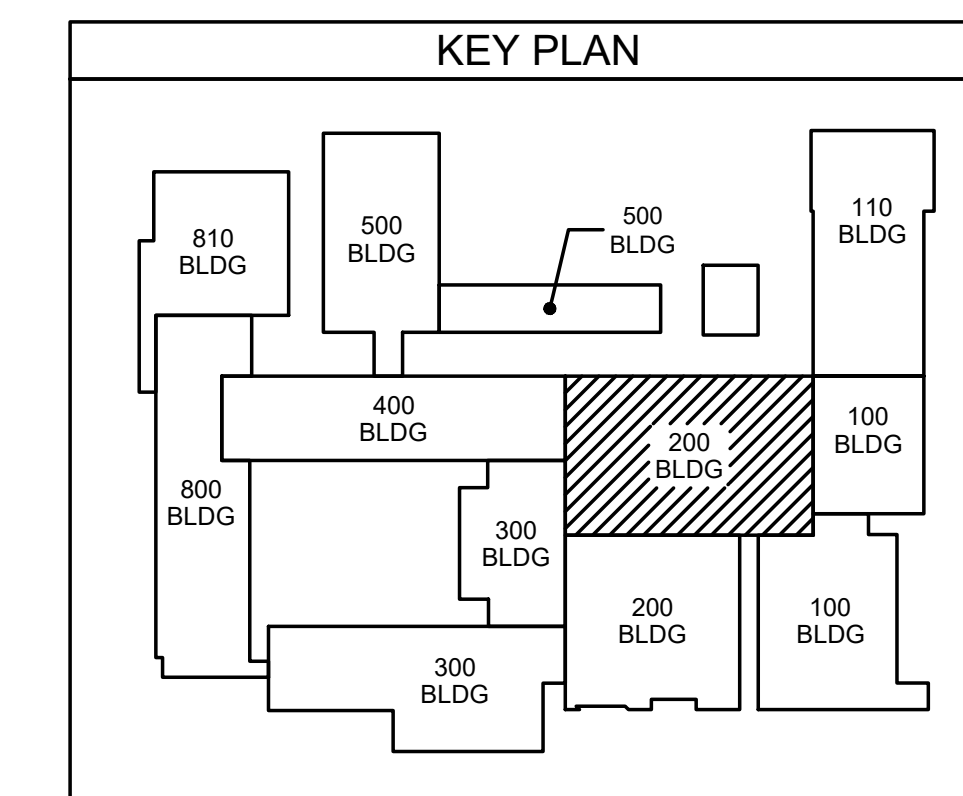


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203.1 LOCKER ROOM ADD'N DWV RISER DIAGRAM
SCALE: N.T.S



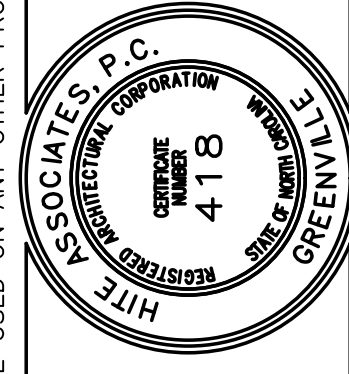
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Drawing no.	P 203

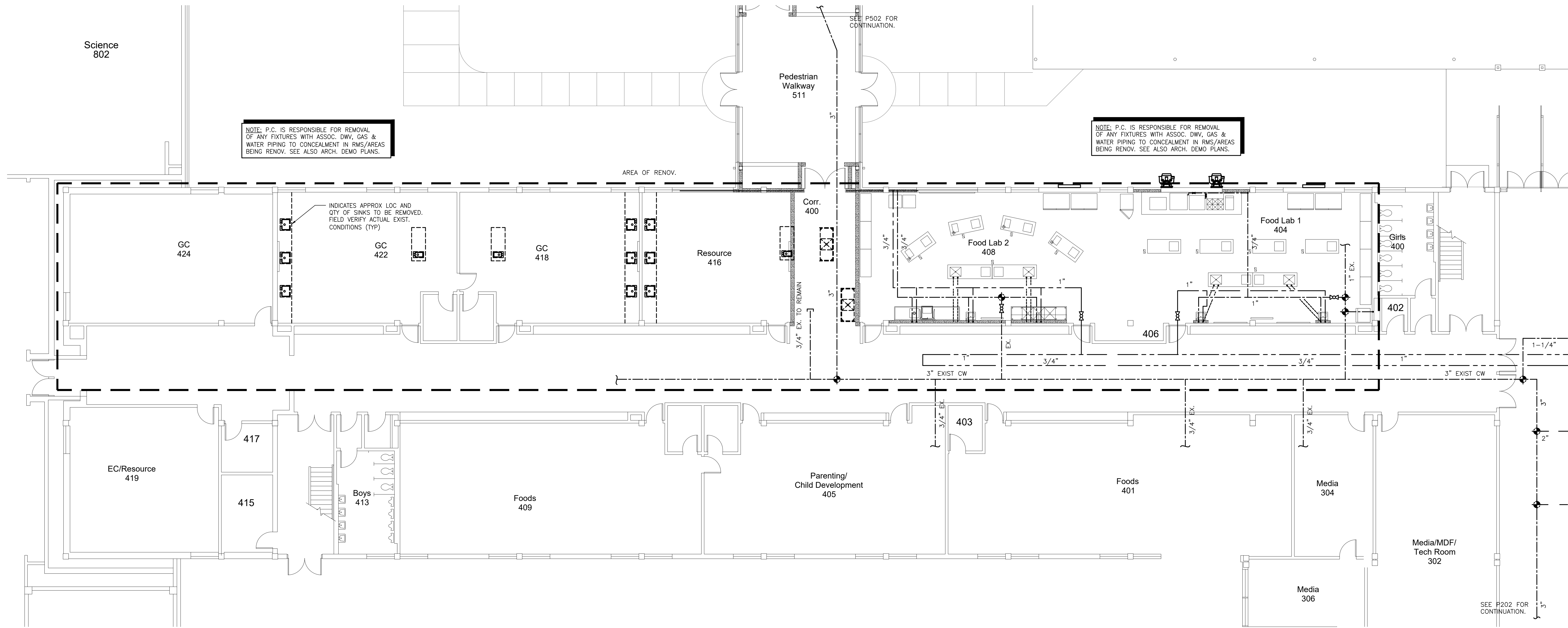
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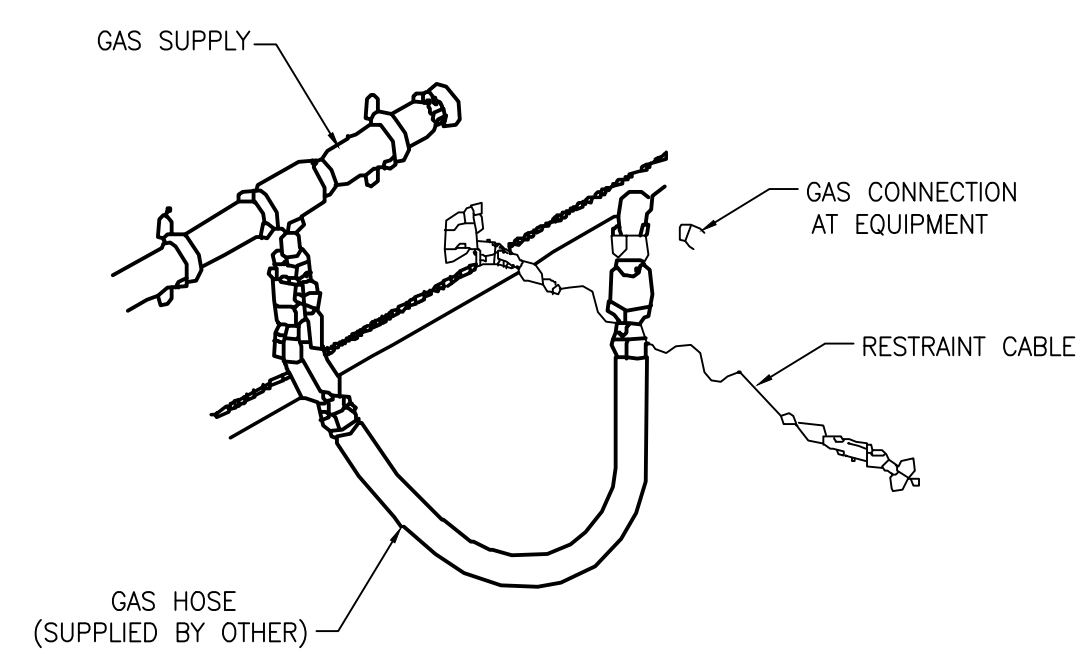
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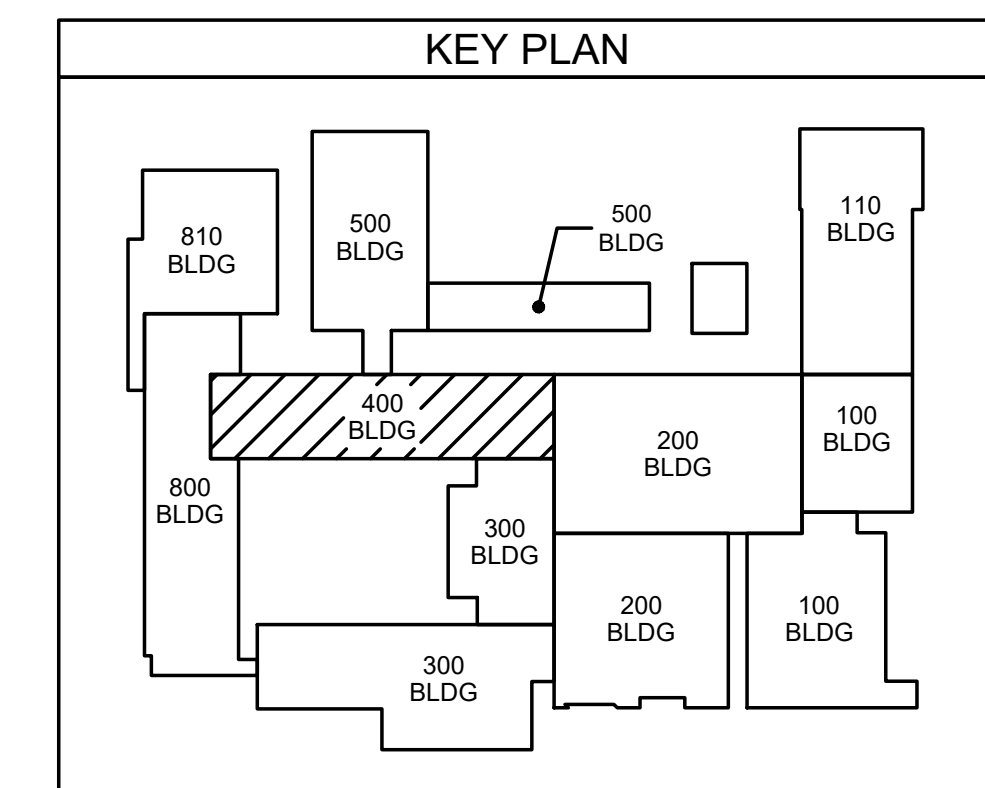
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402.1 FOOD LAB ADD'N POTABLE WATER PLAN
SCALE: 1/8" = 1'-0"



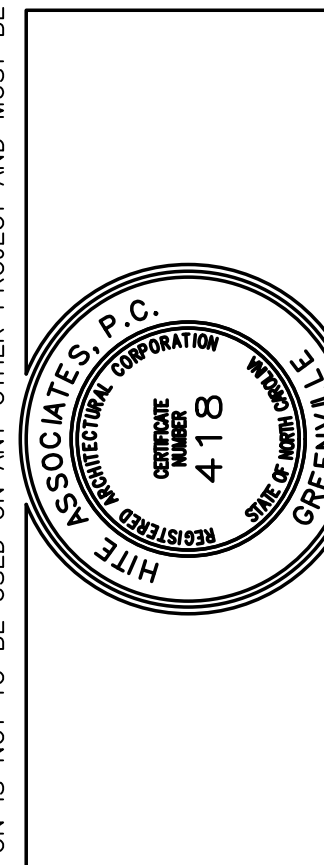
402.2 KITCHEN EQUIP CONNECTION DETAIL
SCALE: NONE



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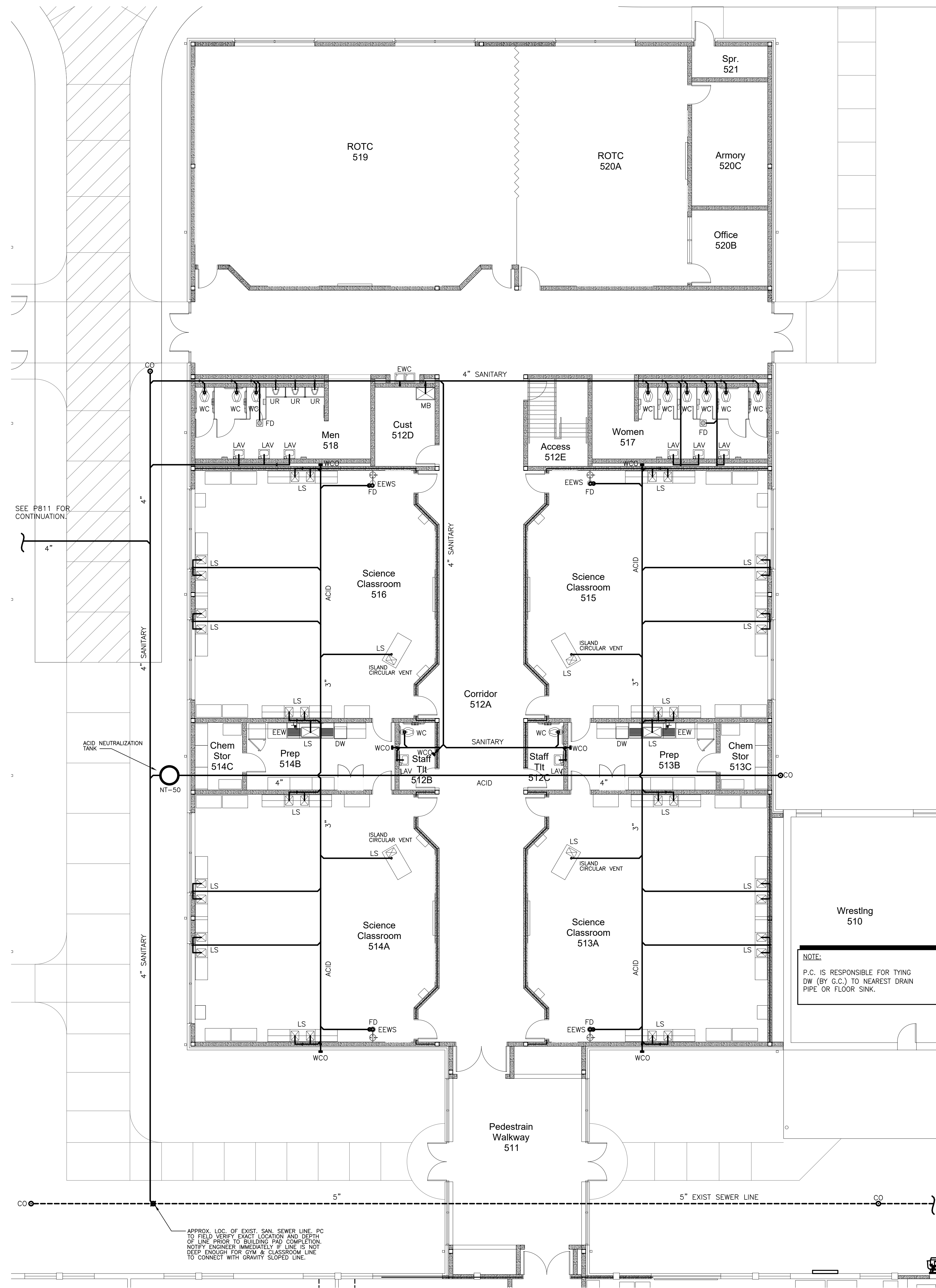
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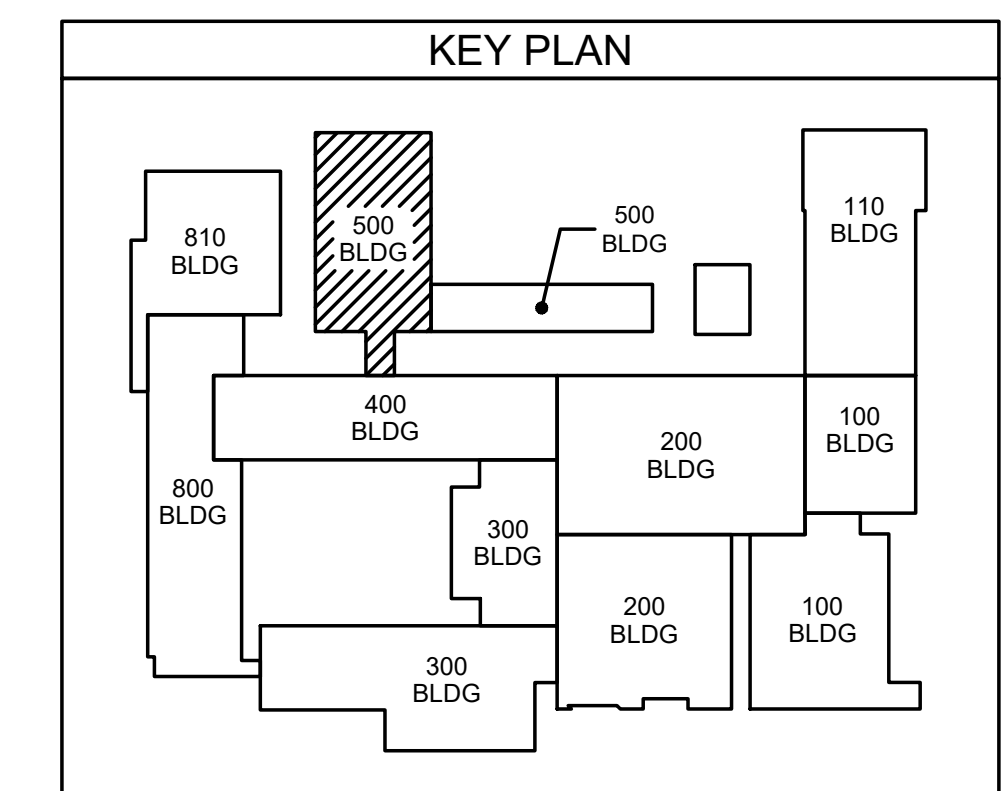
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501.1 SCIENCE ROOM ADD'N SANITARY SEWER PLAN
SCALE: 1/8" = 1'-0"



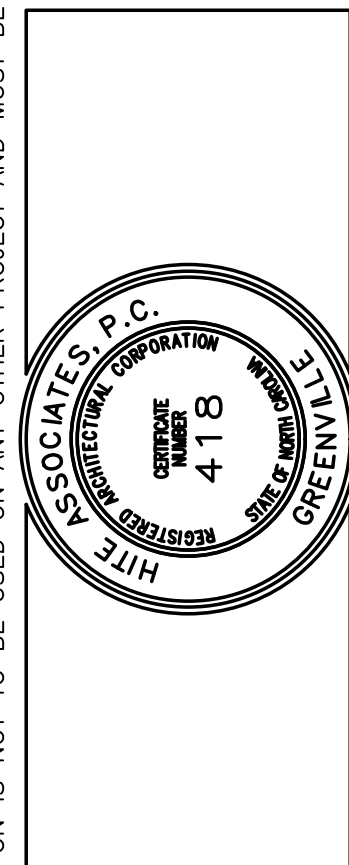
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Drawing no. **P 501**

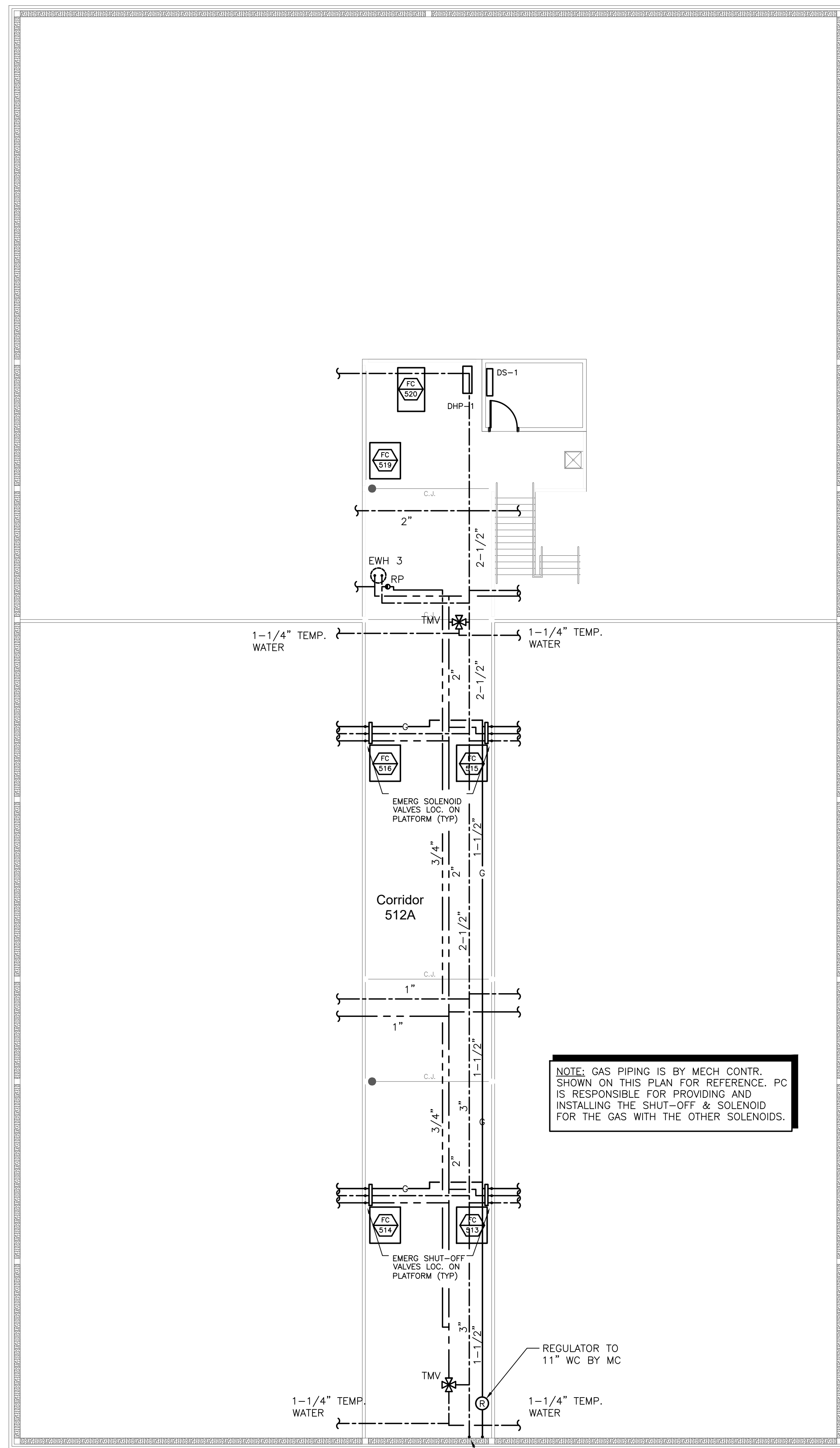
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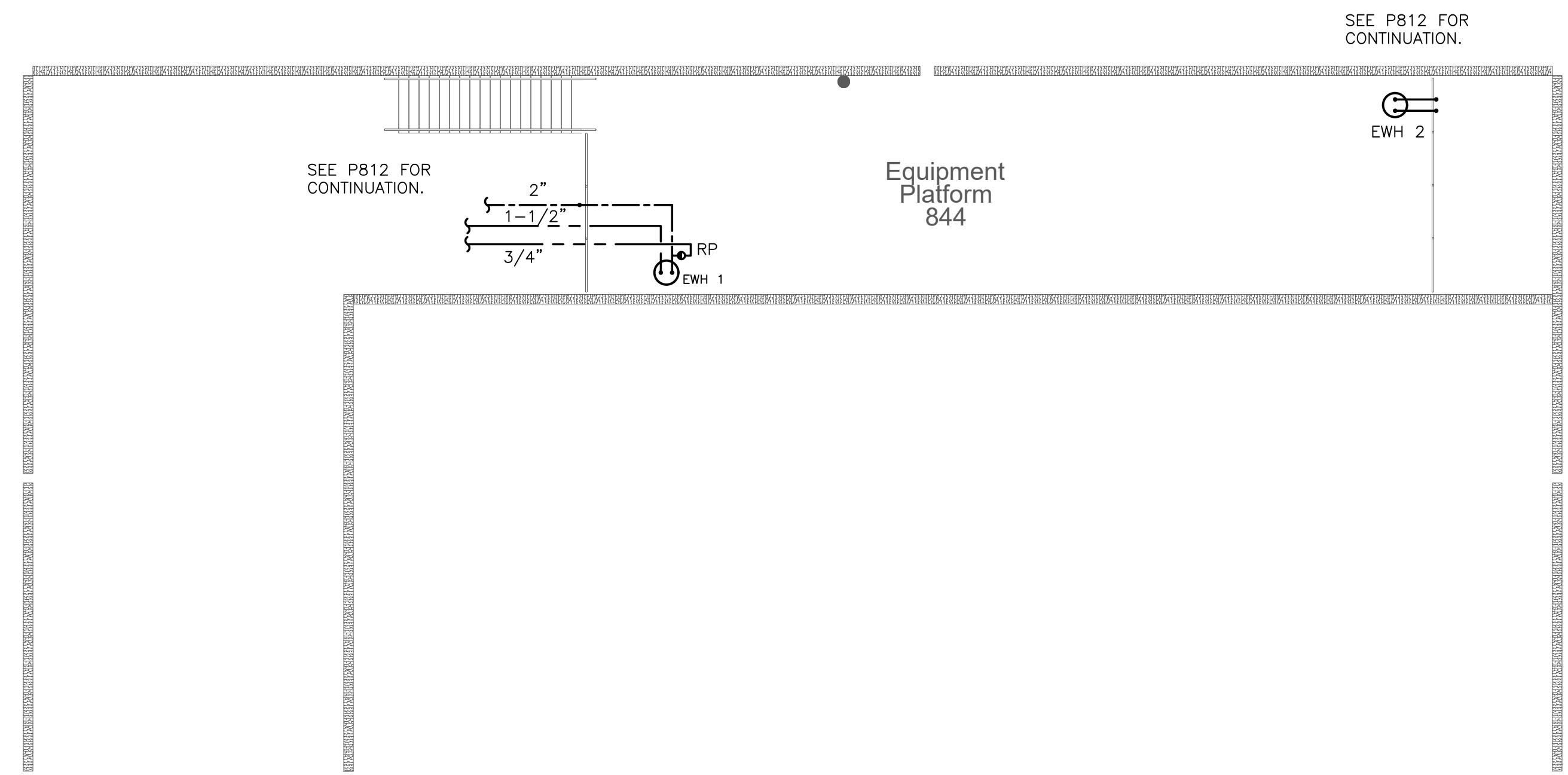
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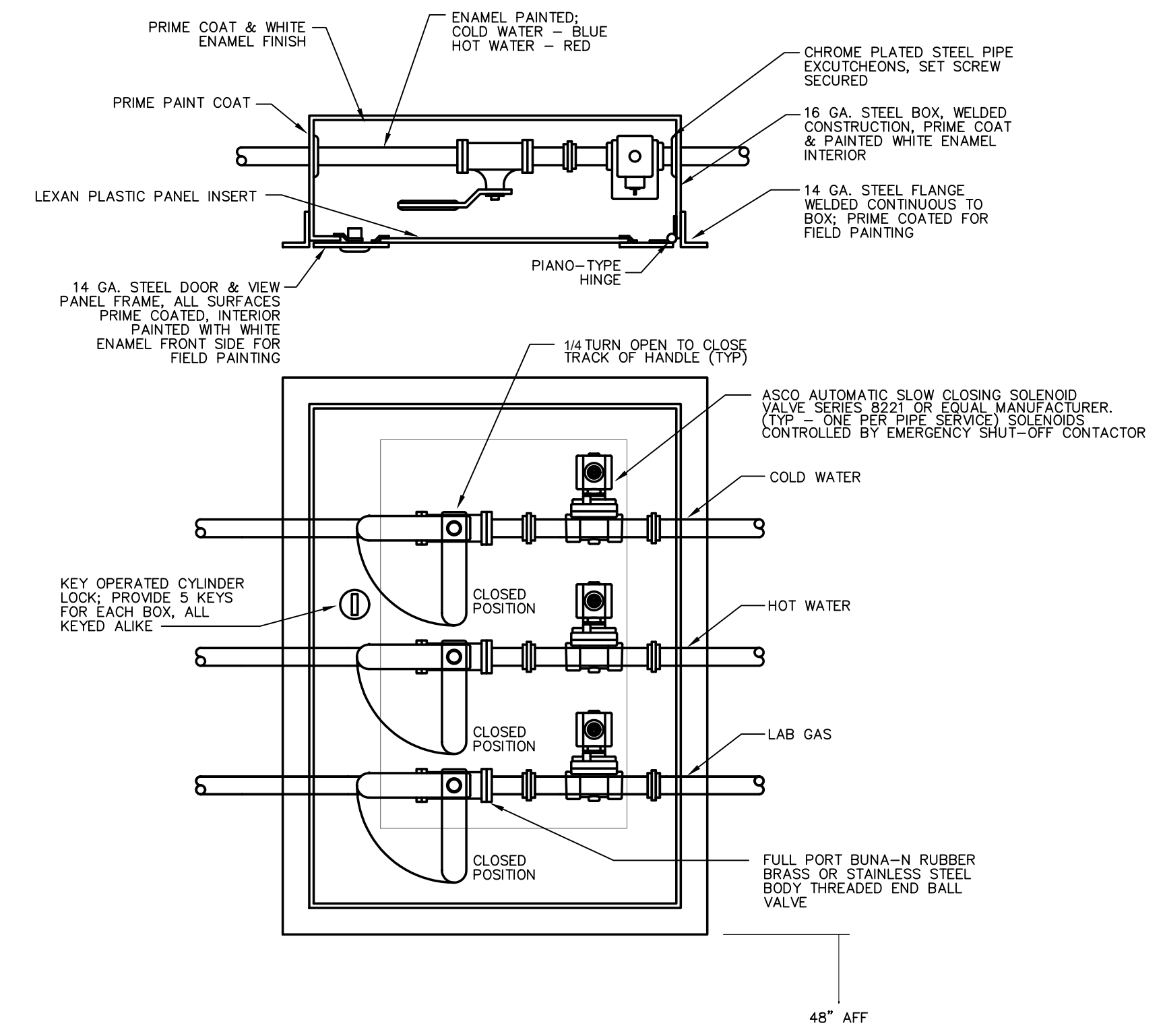
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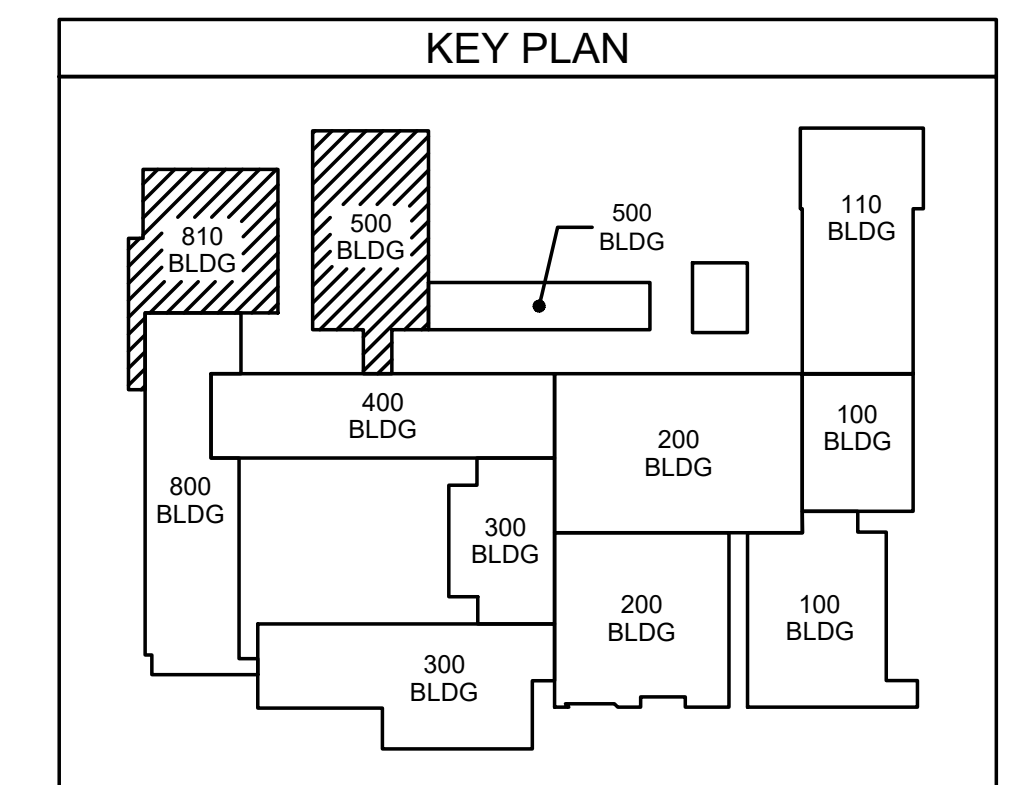
503.1 SCIENCE CLASSROOM PLATFORM PLAN
SCALE: 1/8" = 1'-0"



503.2 GYM PLATFORM PLAN
SCALE: 1/8" = 1'-0"



503.3 EMERGENCY SOLENOID VALVE DETAIL
SCALE: NONE

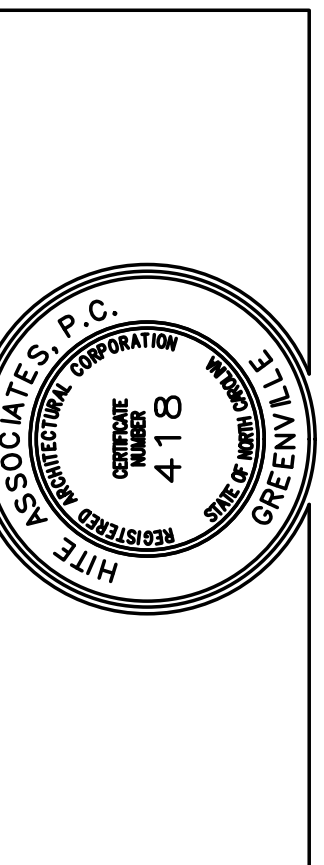


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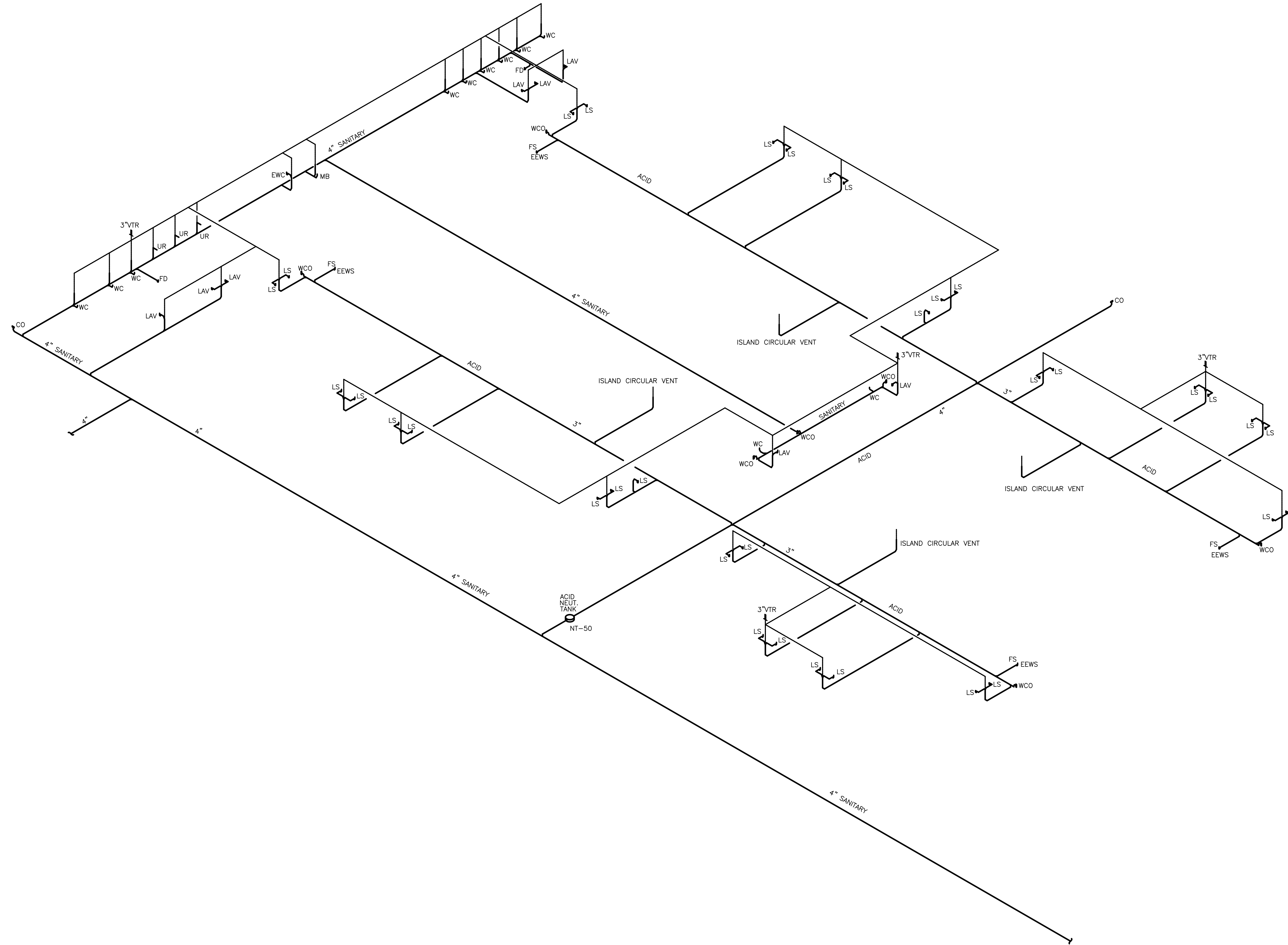
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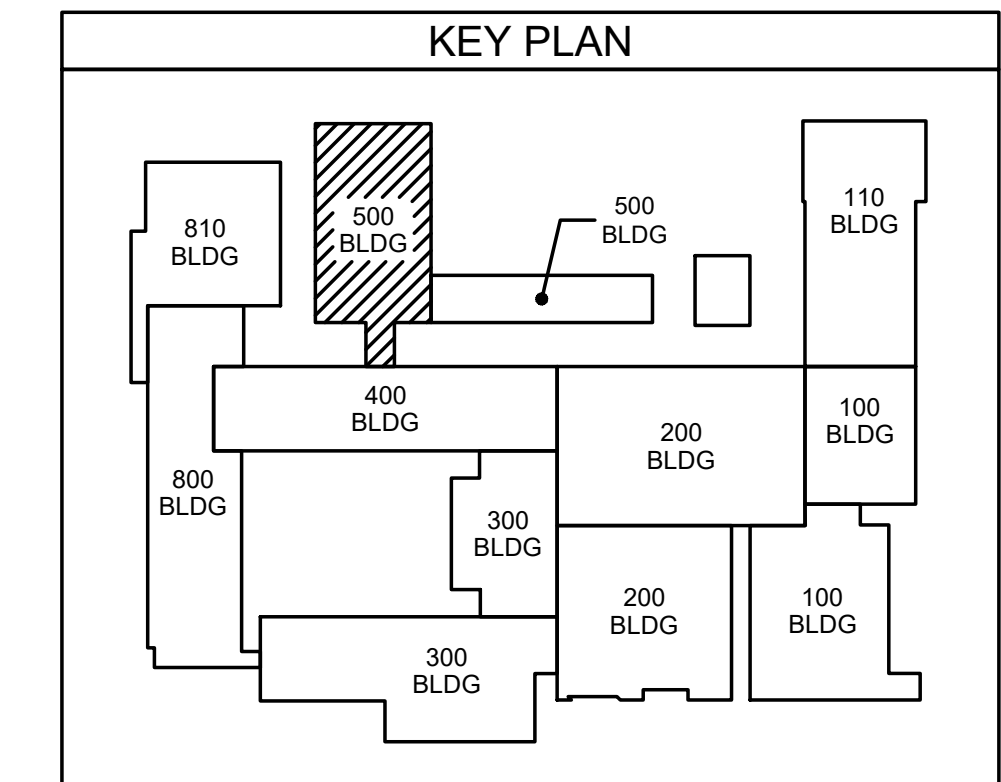
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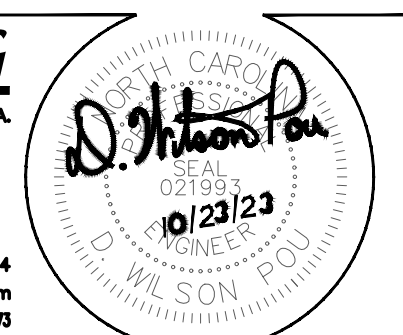
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504.1 DWV RISER DIAGRAM
SCALE: N.T.S



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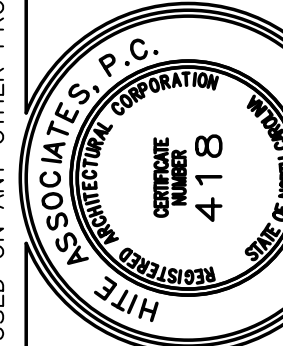
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Drawing no.

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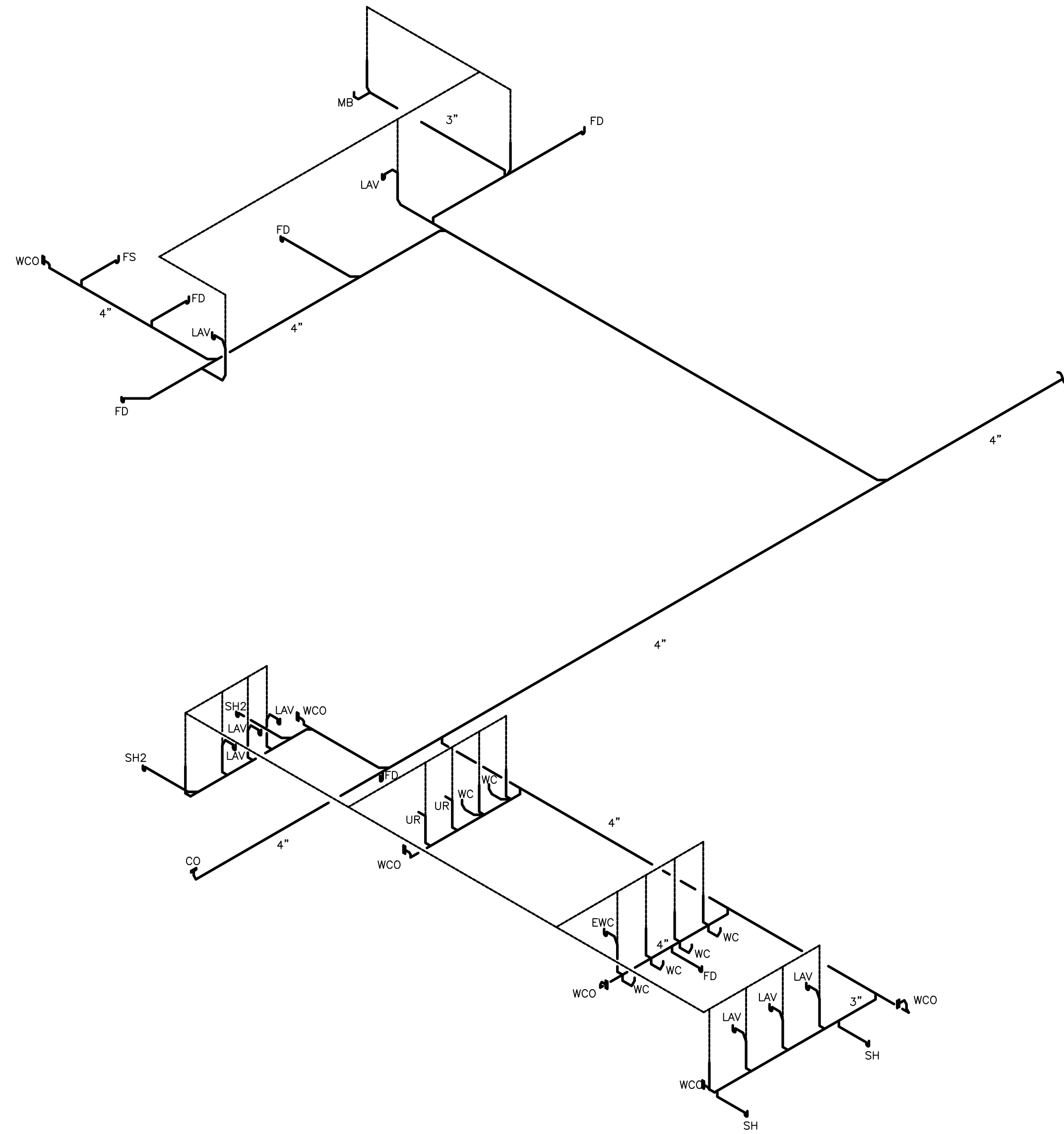
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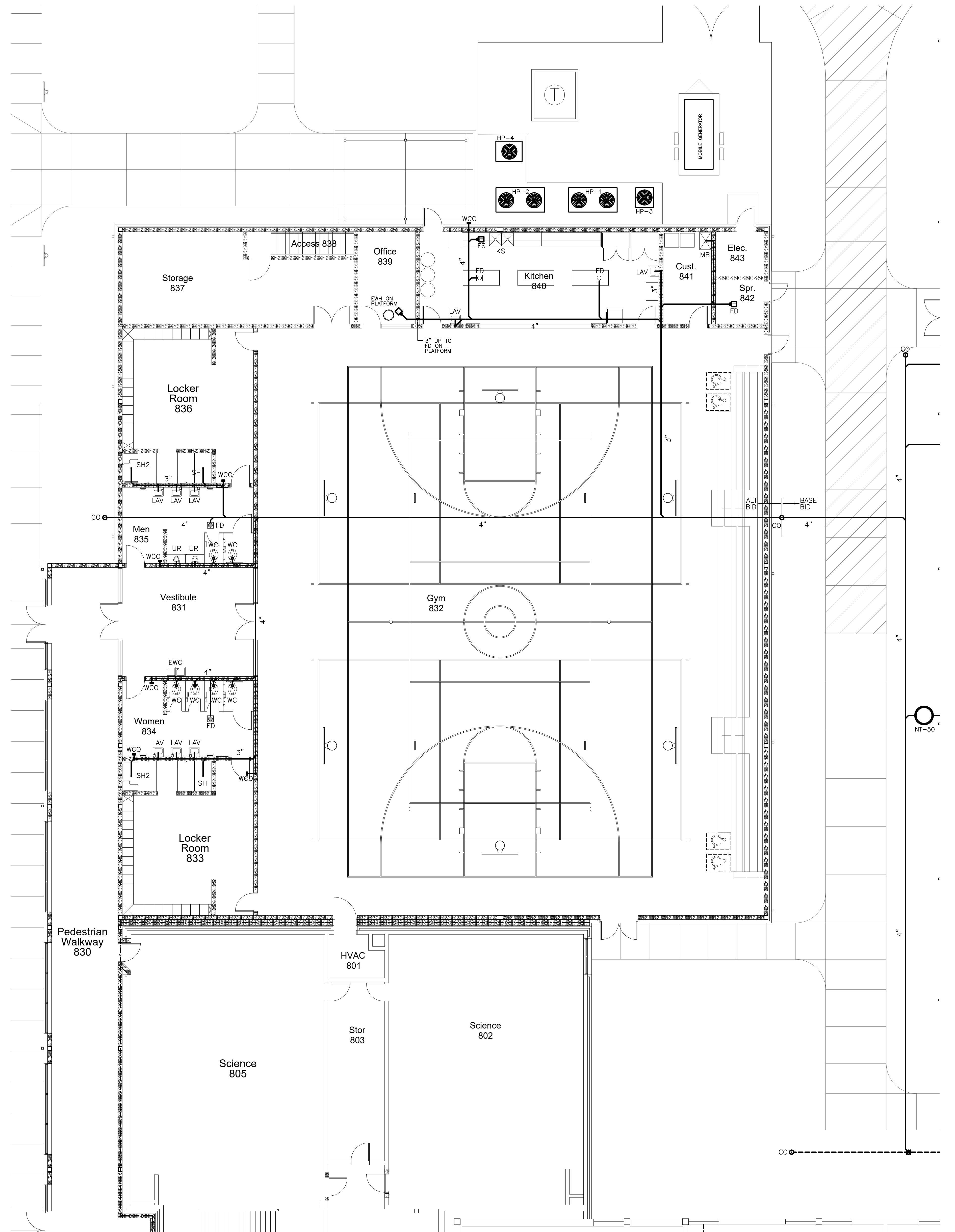
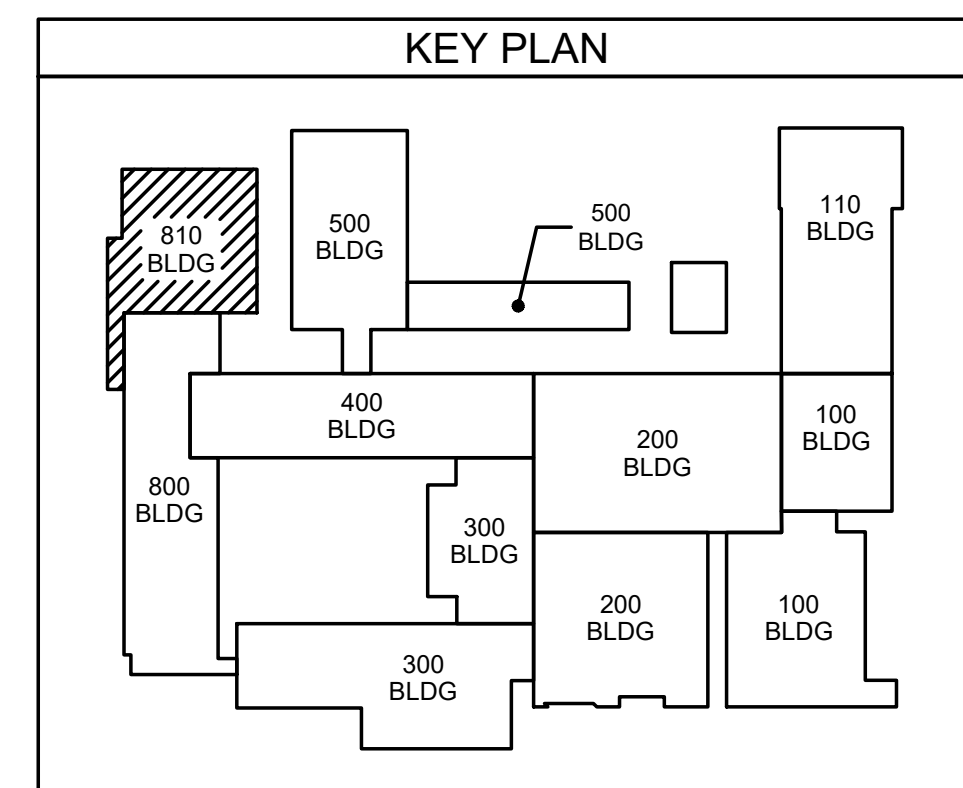
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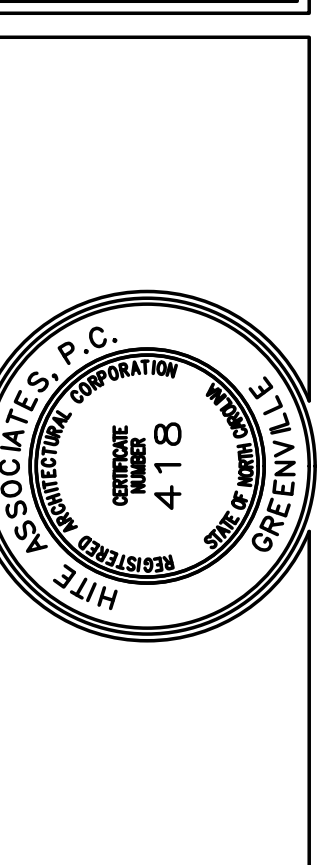
811.2 DWV RISER DIAGRAM
SCALE: N.T.S.



811.1 GYM ADD'N SANITARY SEWER PLAN
SCALE: 1/8" = 1'-0"

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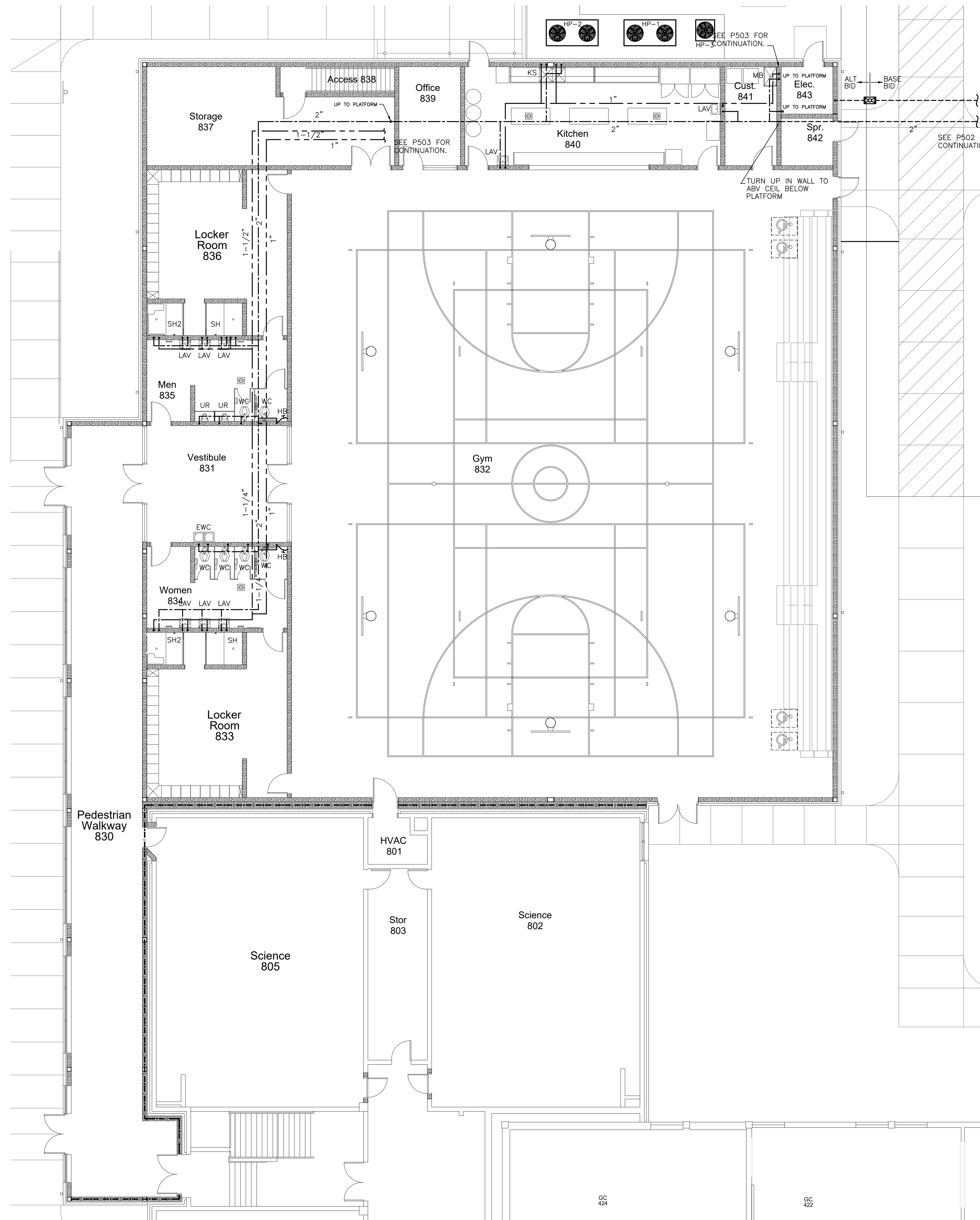
Project No.	22112
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Drawing no.	P 811

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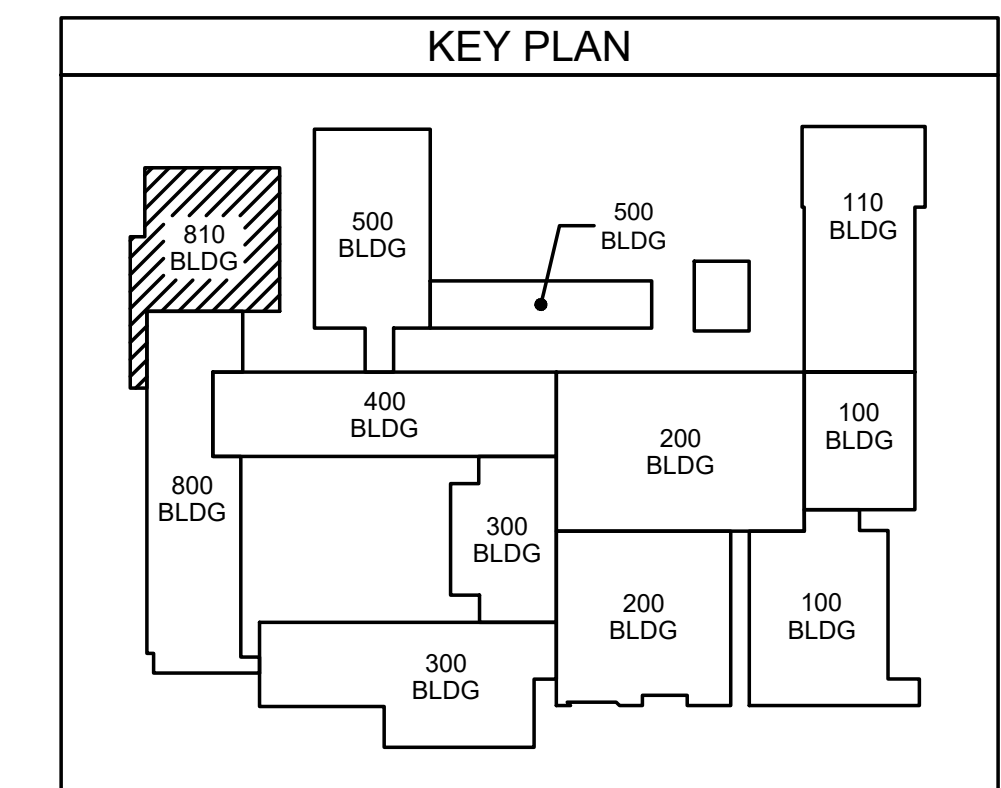
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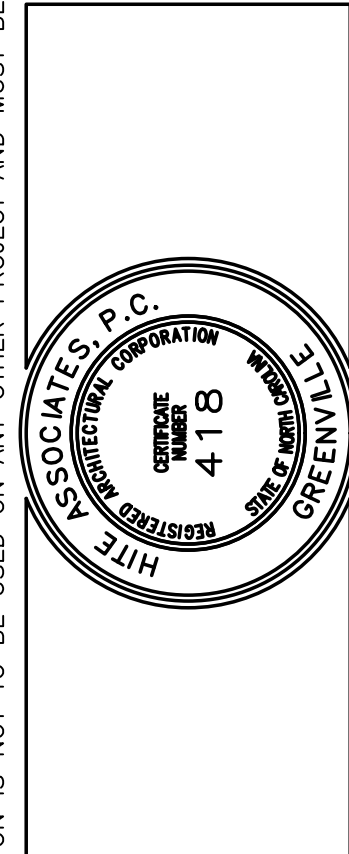
812.1 GYM ADD'N POTABLE WATER PLAN
SCALE: 1/8" = 1'-0"



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No.	Date	Revision

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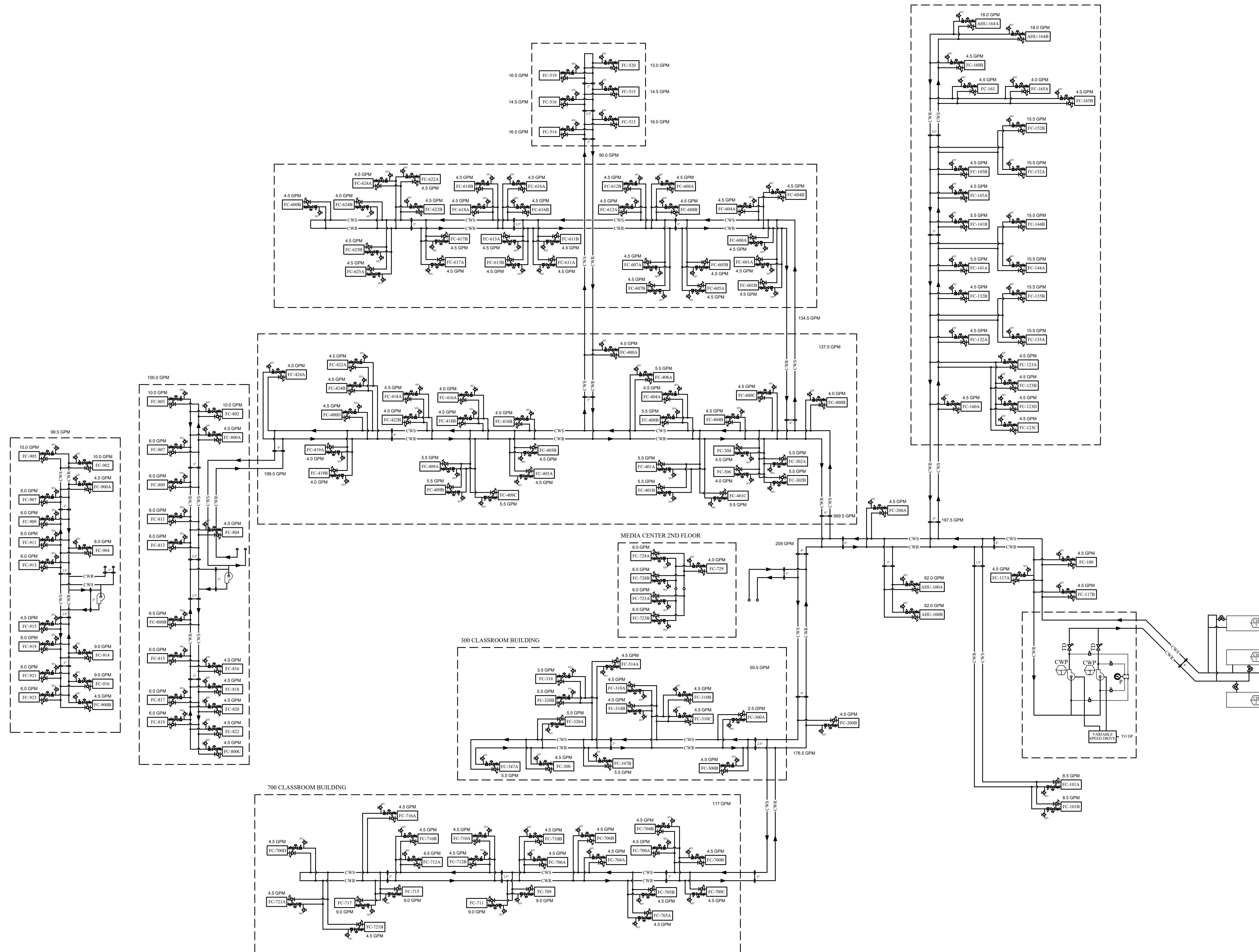
New Additions & Renovations to
West Carteret High School
 4700 Country Club Road, Morehead City NC 28577
 Carteret County Schools / North Carolina

Project No. 22112
 Date: 03 Oct 2023
 Drawing no. **P 812**

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FAN COIL EQUIPMENT SCHEDULE

SYSTEM		AIR DATA		COOLING DATA						HEATING DATA						MOTOR DATA				EQUIPMENT DATA											
TAG	ZONE	CFM	OA	TCL	SC	EATdb	LATdb	ΔTwb	GPM	LWT	CONN	PD	CFM	HEAT	LAT	LWT	GPM	CONN	PD	ESP	HP	MCA	MOCPP	ELECT	DESCRIPTION	MFR./MODEL NO.	ROWS	NOTES	WEIGHT		
NEW FAN COILS FOR EXISTING BUILDINGS																															
FC-123A	PLTW 123	900	0	30	18.6	74.0	55.0	19.0	4.5	55.3	1"	10	650	24.0	71.0	105.0	160.8	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-123B	PLTW 123	900	0	30	18.6	74.0	55.0	19.0	4.5	55.3	1"	10	650	24.0	71.0	105.0	160.8	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-123C	PLTW 123	900	0	30	18.6	74.0	55.0	19.0	4.5	55.3	1"	10	650	24.0	71.0	105.0	160.8	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-123D	PLTW 123	900	0	30	18.6	74.0	55.0	19.0	4.5	55.3	1"	10	650	24.0	71.0	105.0	160.8	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-135A	AG SHOP 135	2500	875	102	71.5	81.4	55.0	26.4	15	55.6	1-1/2"	10	1900	108.3	52.5	105.0	160.3	11	1-1/4"	10	1.25	1.5	9.5	15	208/3/4	HORIZONTAL BLOWER COIL	TRANE/BCHC-090	6/2	1-12	385 LBS	
FC-135B	AG SHOP 135	2500	875	102	71.5	81.4	55.0	26.4	15	55.6	1-1/2"	10	1900	108.3	52.5	105.0	160.3	11	1-1/4"	10	1.25	1.5	9.5	15	208/3/4	HORIZONTAL BLOWER COIL	TRANE/BCHC-090	6/2	1-12	385 LBS	
FC-136	OFFICE 136	400	0	12	8.2	74.0	55.0	19.0	2	54.0	1"	10	400	14.8	71.0	105.0	160.3	1.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB060	4/1		218 LBS	
FC-142	OFFICE 142	400	0	12	8.2	74.0	55.0	19.0	2	54.0	1"	10	400	14.8	71.0	105.0	160.3	1.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB060	4/1		218 LBS	
FC-144A	VOCATIONAL LAB 144	2500	875	102	71.5	81.4	55.0	26.4	15	55.6	1-1/2"	10	1900	108.3	52.5	105.0	160.3	11	1-1/4"	10	1.25	1.5	9.5	15	208/3/4	HORIZONTAL BLOWER COIL	TRANE/BCHC-090	6/2	1-12	385 LBS	
FC-144B	VOCATIONAL LAB 144	2500	875	102	71.5	81.4	55.0	26.4	15	55.6	1-1/2"	10	1900	108.3	52.5	105.0	160.3	11	1-1/4"	10	1.25	1.5	9.5	15	208/3/4	HORIZONTAL BLOWER COIL	TRANE/BCHC-090	6/2	1-12	385 LBS	
FC-152A	VOCATIONAL LAB 152	2500	875	102	71.5	81.4	55.0	26.4	15	55.6	1-1/2"	10	1900	108.3	52.5	105.0	160.3	11	1-1/4"	10	1.25	1.5	9.5	15	208/3/4	HORIZONTAL BLOWER COIL	TRANE/BCHC-090	6/2	1-12	385 LBS	
FC-152B	VOCATIONAL LAB 152	2500	875	102	71.5	81.4	55.0	26.4	15	55.6	1-1/2"	10	1900	108.3	52.5	105.0	160.3	11	1-1/4"	10	1.25	1.5	9.5	15	208/3/4	HORIZONTAL BLOWER COIL	TRANE/BCHC-090	6/2	1-12	385 LBS	
FC-160A	CORRIDOR 160	800	0	24	16.5	74.0	55.0	19.0	3.5	55.7	1"	10	600	22.1	71.0	105.0	162.3	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-160B	CORRIDOR 160	800	0	24	16.5	74.0	55.0	19.0	3.5	55.7	1"	10	600	22.1	71.0	105.0	162.3	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-160C	CORRIDOR 160	800	0	24	16.5	74.0	55.0	19.0	3.5	55.7	1"	10	600	22.1	71.0	105.0	162.3	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-160D	CORRIDOR 160	800	0	24	16.5	74.0	55.0	19.0	3.5	55.7	1"	10	600	22.1	71.0	105.0	162.3	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-163	BAND OFFICE 163	600	0	20	12.4	74.0	55.0	19.0	3	55.3	1"	10	600	22.1	71.0	105.0	162.3	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-165A	BAND STORAGE 165	400	0	12	8.2	74.0	55.0	19.0	2	54.0	1"	10	400	14.8	71.0	105.0	160.3	1.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB060	4/1		218 LBS	
FC-165B	BAND STORAGE 165	400	0	12	8.2	74.0	55.0	19.0	2	54.0	1"	10	400	14.8	71.0	105.0	160.3	1.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB060	4/1		218 LBS	
FC-200A	CORRIDOR 200	800	0	24	16.5	74.0	55.0	19.0	3.5	55.7	1"	10	600	22.1	71.0	105.0	162.3	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-200B	CORRIDOR 200	800	0	24	16.5	74.0	55.0	19.0	3.5	55.7	1"	10	600	22.1	71.0	105.0	162.3	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-300A	MEDIA CENTER OFFICES	400	0	12	8.2	74.0	55.0	19.0	2	54.0	1"	10	400	14.8	71.0	105.0	160.3	1.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-300B	CORRIDOR 300	800	0	24	16.5	74.0	55.0	19.0	3.5	55.7	1"	10	600	22.1	71.0	105.0	162.3	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-400A	CORRIDOR 400	600	0	20	12.4	74.0	55.0	19.0	3	55.3	1"	10	600	22.1	71.0	105.0	162.3	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-400C	CORRIDOR 400	800	0	24	16.5	74.0	55.0	19.0	3.5	55.7	1"	10	600	22.1	71.0	105.0	162.3	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-400D	CORRIDOR 400	800	0	24	16.5	74.0	55.0	19.0	3.5	55.7	1"	10	600	22.1	71.0	105.0	162.3	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-700D	CORRIDOR 700	800	0	24	16.5	74.0	55.0	19.0	3.5	55.7	1"	10	600	22.1	71.0	105.0	162.3	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
NEW FAN COILS FOR NEW SCIENCE CLASSROOM BUILDING																															
FC-513	SCIENCE ROOM 513	2675	725	102	71.7	79.7	55.0	24.7	15	55.6	1-1/2"	10	2000	105.0	56.6	105.0	160.0	10.5	1-1/4"	10	1.25	1.5	4.13	15	460/3/4	VERTICAL BLOWER COIL	TRANE/BCHV-090	6/2	1-12	550 LBS	
FC-514	SCIENCE ROOM 514	2675	725	102	71.7	79.7	55.0	24.7	15	55.6	1-1/2"	10	2000	105.0	56.6	105.0	160.0	10.5	1-1/4"	10	1.25	1.5	4.13	15	460/3/4	VERTICAL BLOWER COIL	TRANE/BCHV-090	6/2	1-12	550 LBS	
FC-515	SCIENCE ROOM 515	2400	620	90	63.6	79.4	55.0	24.4	13	55.8	1-1/4"	10	1800	93.1	57.3	105.0	160.4	9.5	1-1/4"	10	1.25	1.5	4.13	15	460/3/4	VERTICAL BLOWER COIL	TRANE/BCHV-090	6/2	1-12	550 LBS	
FC-516	SCIENCE ROOM 516	2400	620	90	63.6	79.4	55.0	24.4	13	55.8	1-1/4"	10	1800	93.1	57.3	105.0	160.4	9.5	1-1/4"	10	1.25	1.5	4.13	15	460/3/4	VERTICAL BLOWER COIL	TRANE/BCHV-090	6/2	1-12	550 LBS	
FC-519	ROTC 519	2600	500	90	65.0	78.0	55.0	23.0	13	55.8	1-1/4"	10	1950	93.5	60.8	105.0	160.3	9.5	1-1/4"	10	1.25	1.5	4.13	15	460/3/4	VERTICAL BLOWER COIL	TRANE/BCHV-090	6/2	1-12	550 LBS	
FC-520	ROTC 520	2000	300	60	48.1	77.2	55.0	22.2	9	55.3	1-1/4"	10	1450	66.0	63.1	105.0	161.1	7	1-1/4"	10	1.25	1.5	4.13	15	460/3/4	VERTICAL BLOWER COIL	TRANE/BCHV-072	6/2	1-12	500 LBS	
NEW FAN COILS TO REPLACE EXISTING FAN COIL UNITS																															
FC-100	CORRIDOR 100	800	0	24	16.5	74.0	55.0	19.0	3.5	55.7	1"	10	600	22.1	71.0	105.0	162.3	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-101A	KITCHEN 101	1800	0	42	37.1	74.0	55.0	19.0	6	56.0	1"	10	1200	44.3	71.0	105.0	160.3	4.5	1"	10	0	1	15	15	120/1/3/4	HORIZONTAL UNIT VENTILATOR	TRANE/HUV/200	3/1		600 LBS	
FC-101B	KITCHEN 101	1800	0	42	37.1	74.0	55.0	19.0	6	56.0	1"	10	1200	44.3	71.0	105.0	160.3	4.5	1"	10	0	1	15	15	120/1/3/4	HORIZONTAL UNIT VENTILATOR	TRANE/HUV/200	3/1		600 LBS	
FC-117A	GENERAL STORAGE 117	800	0	24	16.5	74.0	55.0	19.0	3.5	55.7	1"	10	600	22.1	71.0	105.0	162.3	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-117B	GENERAL STORAGE 117	800	0	24	16.5	74.0	55.0	19.0	3.5	55.7	1"	10	600	22.1	71.0	105.0	162.3	2.5	1"	10	0	0.3	6.07	15	115/1/3/4	HORIZONTAL FAN COIL	TRANE/FCDB100	4/1		218 LBS	
FC-132A	AGRICULTURE 132	800	0	24	16.5	74.0	55.0	19.0																							



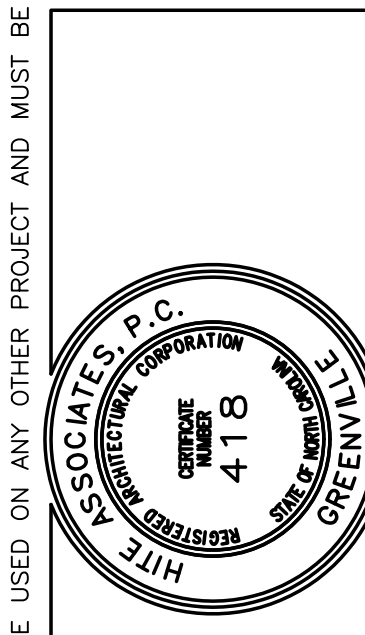
004.1 CHILLED WATER SYSTEM FLOW & CONTROL DIAGRAM

SCALE: none

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Project No.	22112
Date:	03 Oct 2023
Drawing No.	M 004

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DINING UNIT CONTROL SEQUENCE:

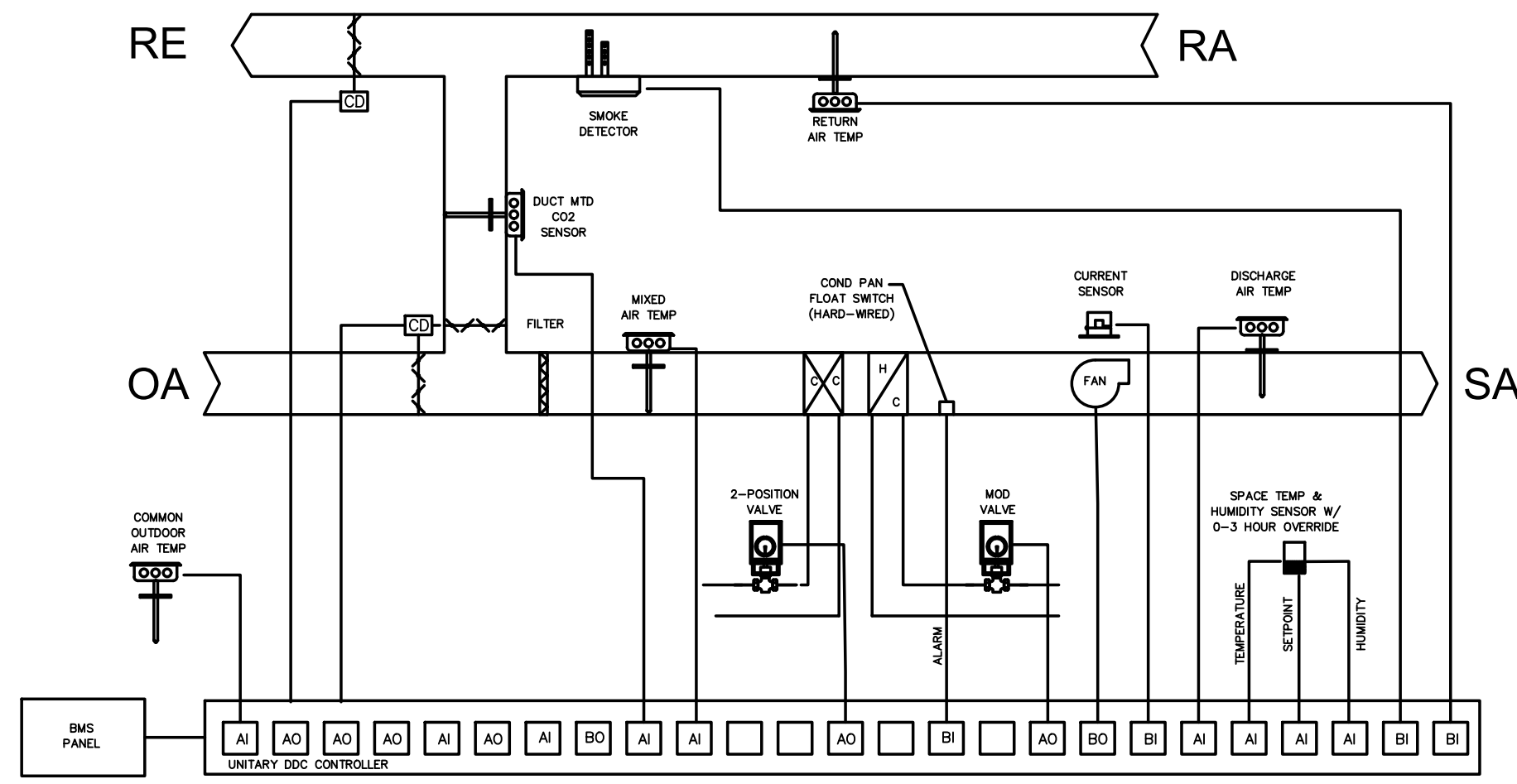
START/STOP: EMS shall index system during School's specified occupied and setback periods. Unit fans shall run continuously during occupied times and cycle during unoccupied times.

TEMPERATURE CONTROL: Each unit is provided with combination temp/humidity sensors w/temperature setpoint adjust capabilities and timed local over-ride in their respective zones. The EMS will monitor the supply air temperature. The space sensor controls the modulating heating valve and the cooling valve to maintain temperature for scheduled hours and night setback setpoint after scheduled hours.

DEHUMIDIFICATION CYCLE: Upon the space temp being satisfied and sensing a humidity level above set point (60% RH) the supply air (SA) fan shall be set to heating O/M, the chilled water valve shall index open, and the hot water valve (call in the re-heat position) shall modulate as required to maintain a 70°F discharge air temperature unit space humidity falls below set point.

SAFETIES: The electrical contractor to provide duct type smoke detector to be installed in return air duct per NFPA 72 item 9-10.5.2.2 for fan shut-down. M.C. shall provide float out-of-switch in each drain pan and a freeze stat (remote reset capable) at the chilled water coil to shut-down unit and place into alarm status. C.C. shall provide a freeze-stat reset and a fan status input to the BMS.

VENTILATION: (DINING ROOM) EMS shall index common building outside air control damper open during occupied school hours. System fan shall run continuously during occupied hours. Unit damper shall start at minimum position. Unit damper shall drive to max position upon the CO2 monitor sensing a level above set point (800 PPM) after system start-up and BMS shall open relief air damper. Unit OA dampers shall close during night setback and morning warm-up (verify sched. w/Owner).



005.11 DINING CONTROL DIAGRAM
SCALE: N.T.S.

CLASSROOM FAN COIL CONTROL SEQUENCE:

START/STOP: Building Management System (BMS) shall index fan coils on during School's specified occupied periods to run continuously. The Fan Coil units will be indexed by zones with each building unit being a zone for start/stop and timed override operation. Timed override operation will be programmed and indexed through the County's BMS system.

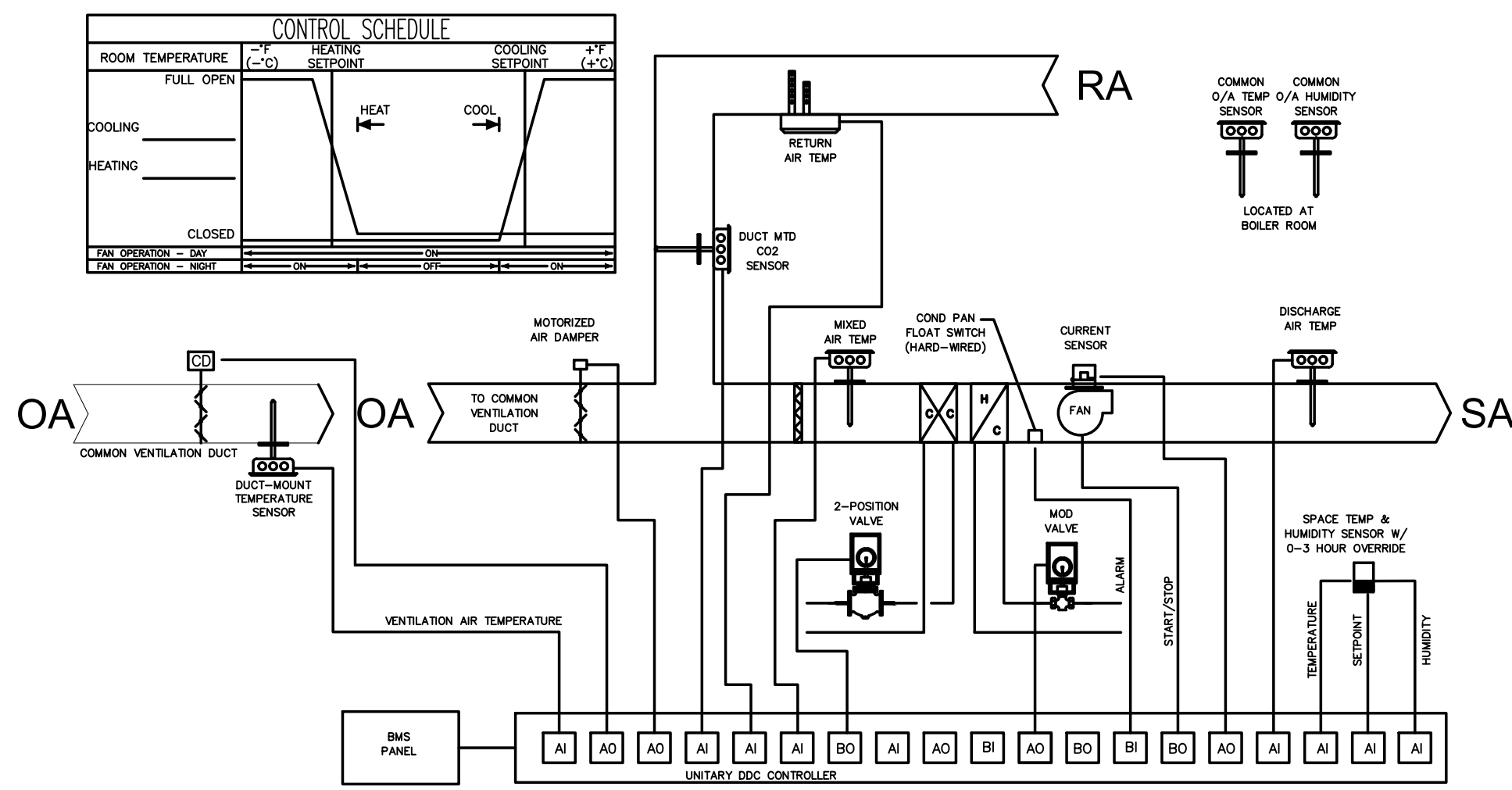
TEMPERATURE CONTROL: Each unit is provided with combination temp/humidity sensors w/temperature setpoint adjust capabilities and timed local over-ride in their respective zones. The EMS will monitor the supply air temperature. The space sensor controls the modulating heating valve and the cooling valve to maintain temperature for scheduled hours and night setback setpoint after scheduled hours.

DEHUMIDIFICATION CYCLE: Upon the space temp being satisfied and sensing a humidity level above set point (60% RH) the supply air (SA) fan shall be set to heating O/M, the chilled water valve shall index open, and the hot water valve (call in the re-heat position) shall modulate as required to maintain a 70°F discharge air temperature unit space humidity falls below set point.

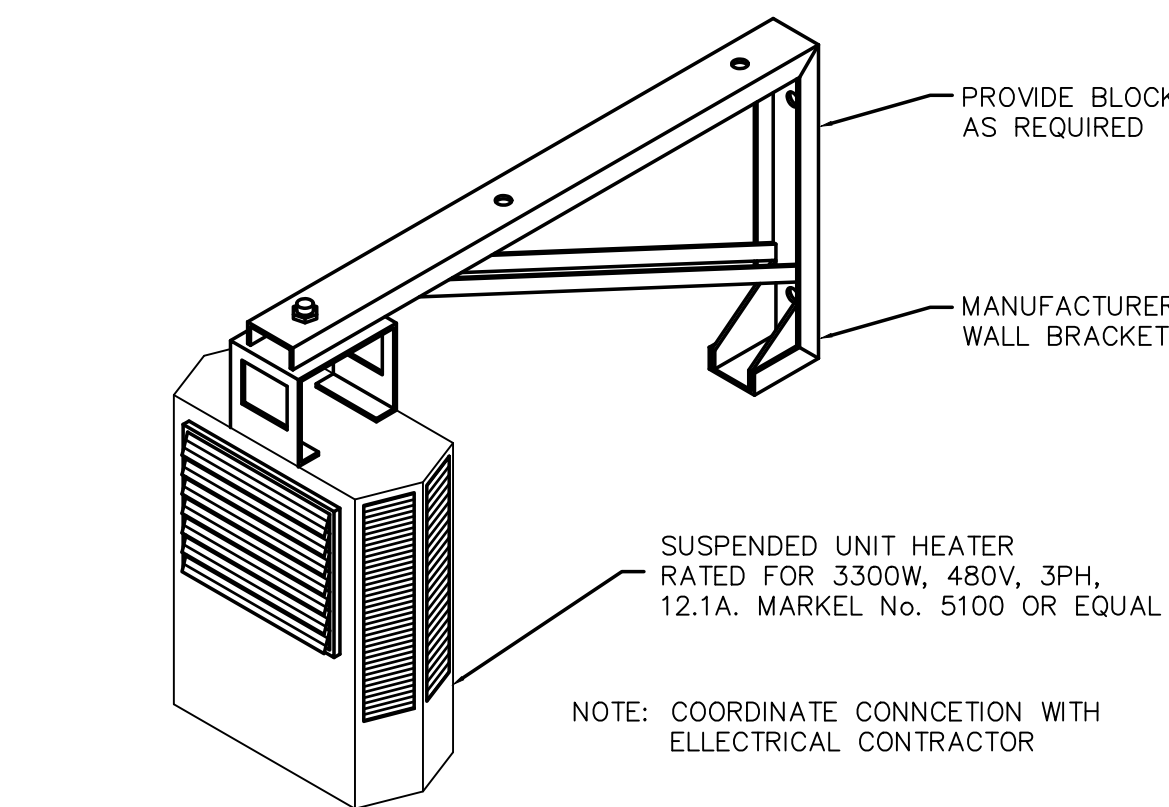
VENTILATION: EMS shall index common building outside air control damper open during occupied school hours. System fan shall run continuously during occupied hours. Unit damper shall start at minimum position. Unit damper shall drive to max position upon the CO2 monitor sensing a level above set point (700 PPM) after system start-up. Unit OA dampers shall close during night setback and morning warm-up (verify sched. w/Owner).

SAFETIES: Provide a Remote Relay (RR) to shutdown all FCU's with remote switch located adjacent to the Fire Alarm System. Activation of a duct smoke detector, fire alarm signaling device, or manual emergency fan shut-down switch shall shut down fan in accordance with NFPA 72. The fire alarm panel shall have a reset / defect switch (Provided E.C.) for fan reposition. C.C. shall perform final connections to BMS system. Controls contractor shall provide float out-of-switch in each drain pan to shut-down unit and place into alarm status. C.C. shall provide all fan coil unit switch and input to the BMS indicating fan status.

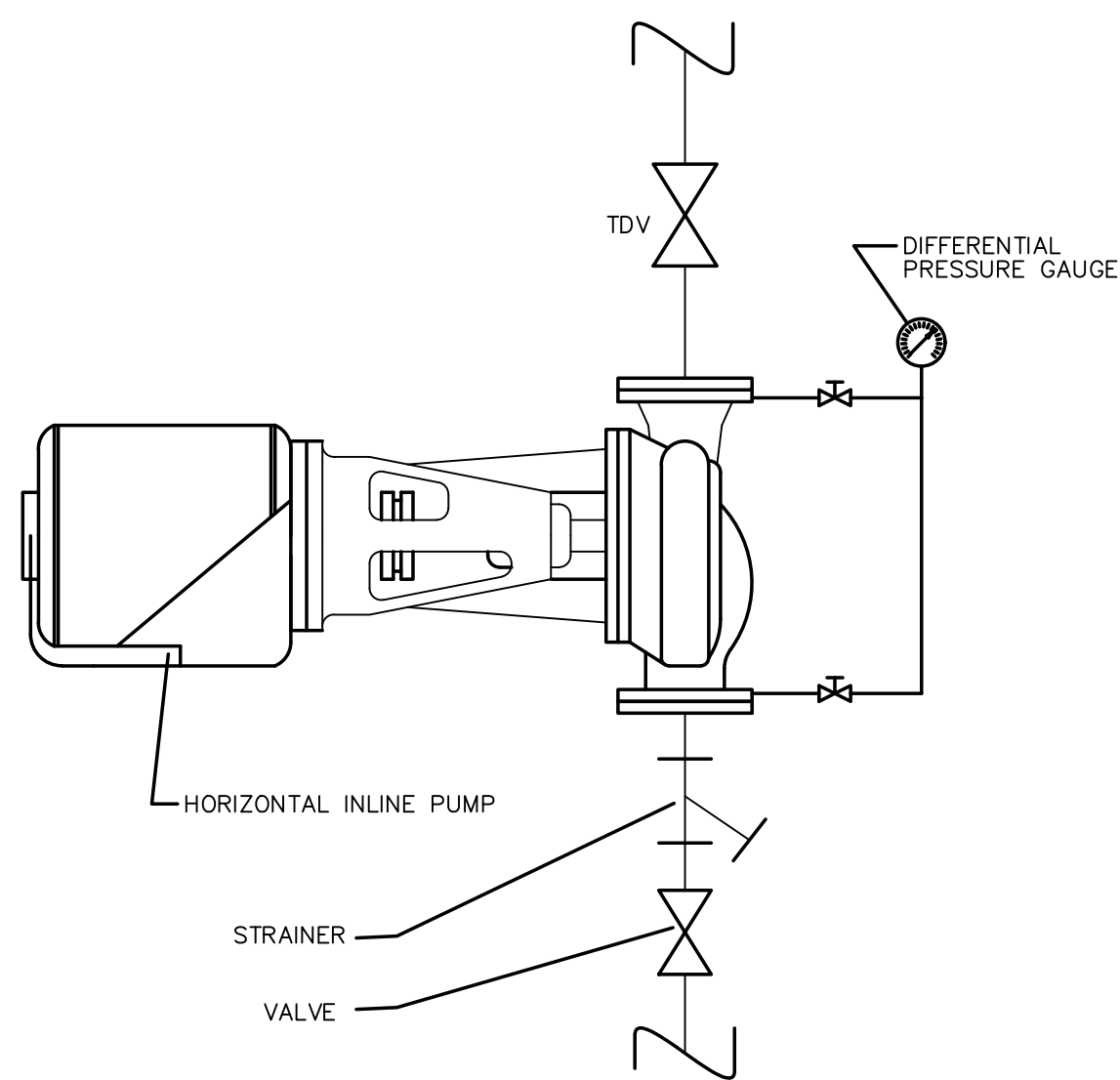
EXHAUST FANS: Index local exhaust fans as indicated on exhaust fan equipment schedule with FCUoperating schedule serving zone.



005.10 TYPICAL FAN COIL CONTROL DIAGRAM
SCALE: N.T.S.



005.9 UNIT HEATER INSTALLATION DETAIL
SCALE: N.T.S.



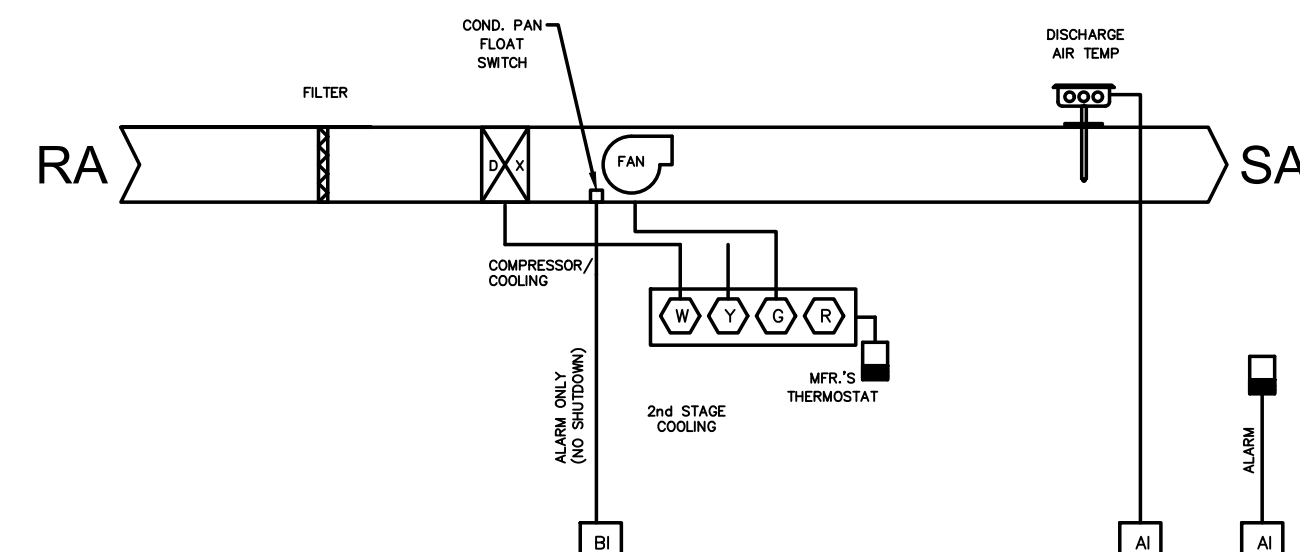
005.5 INLINE PUMP DEAL
SCALE: N.T.S.

MDF UNIT CONTROL SEQUENCE:

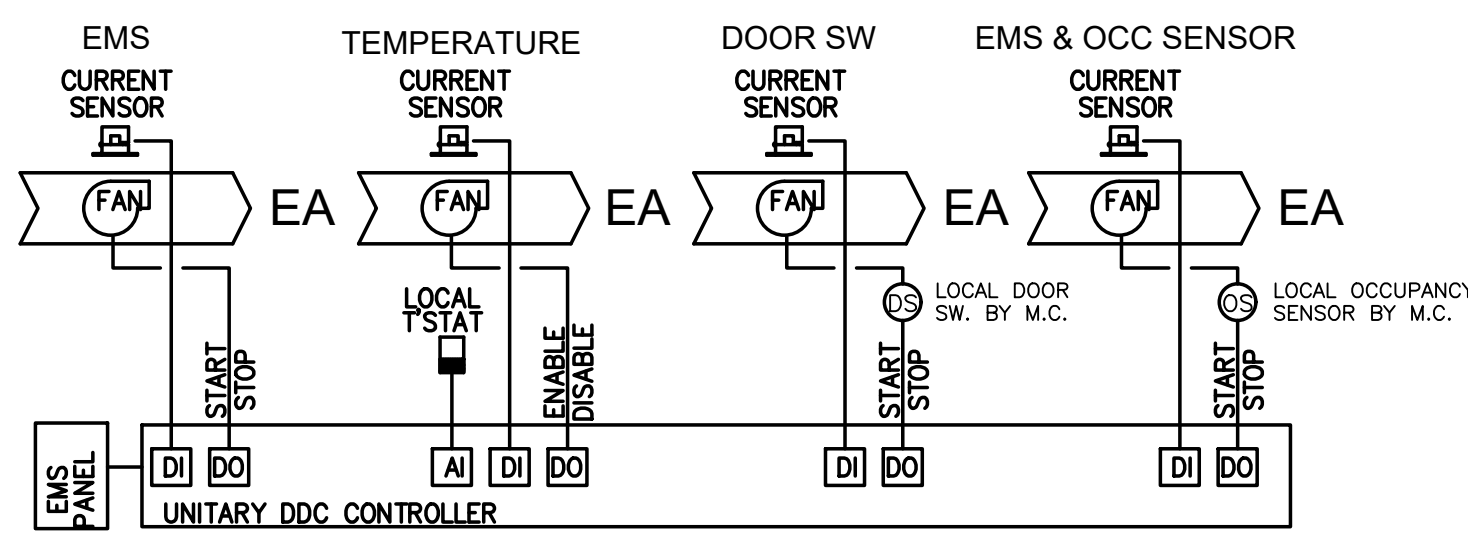
START/STOP: Unit shall run to maintain min. 68°F (adj) year-round temperature.

TEMPERATURE CONTROL: Unit is provided with manufacturer's thermostat which controls the DX condenser and SA fan to maintain space temperature.

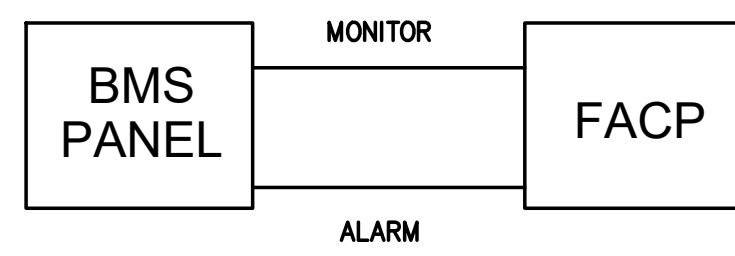
SAFETIES: A condensate pan float switch will activate an alarm upon being activated; however the unit shall continue to operate.



005.8 MDF/IDF UNIT CONTROL DIAGRAM
SCALE: N.T.S.



005.7 MISC FAN CONTROLS
SCALE: NONE



005.6 GLOBAL FAN SHUT-DOWN
SCALE: N.T.S.

SHUTDOWN:

UPON RECEIPT OF AN ALARM SIGNAL FROM THE FACP, THE BMS SHALL SHUT DOWN ALL AIR MOVING UNITS (AHU, FC, RTU, ETC.) IN A SAFE MANNER THAT WILL PREVENT ANY DAMAGE TO CHILLERS, PUMPS, CONDENSING UNITS, BOILERS, ETC. SYSTEM SHALL RETURN TO NORMAL OPERATION UPON CANCELLATION OF ALARM.

FIRE DRILL MODE SHALL NOT ACTIVATE GLOBAL FAN SHUT-DOWN.

CHILLER CONTROL:

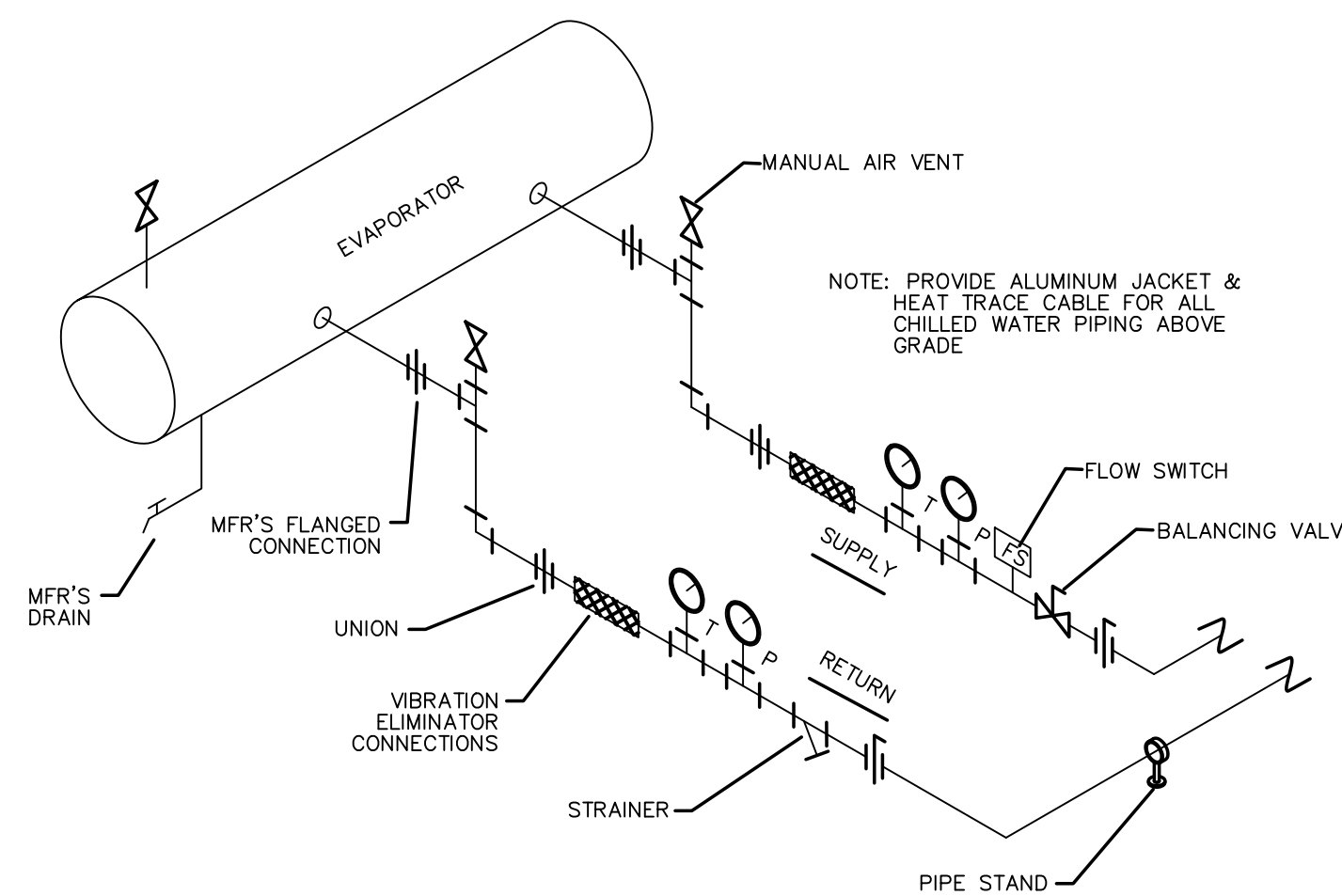
START/STOP: BMS shall enable Chiller(s) once water flow is proven in respective primary chiller loops. Chiller Controller shall index Chiller(s) on once building return water temperature is above 45°F. Chiller Controller shall modulate cooling stages based on building return water temperature. Chiller Controller shall index Chiller(s) off once building return water temperature reaches 42°F.

CHILLED WATER SYSTEM CONTROL:

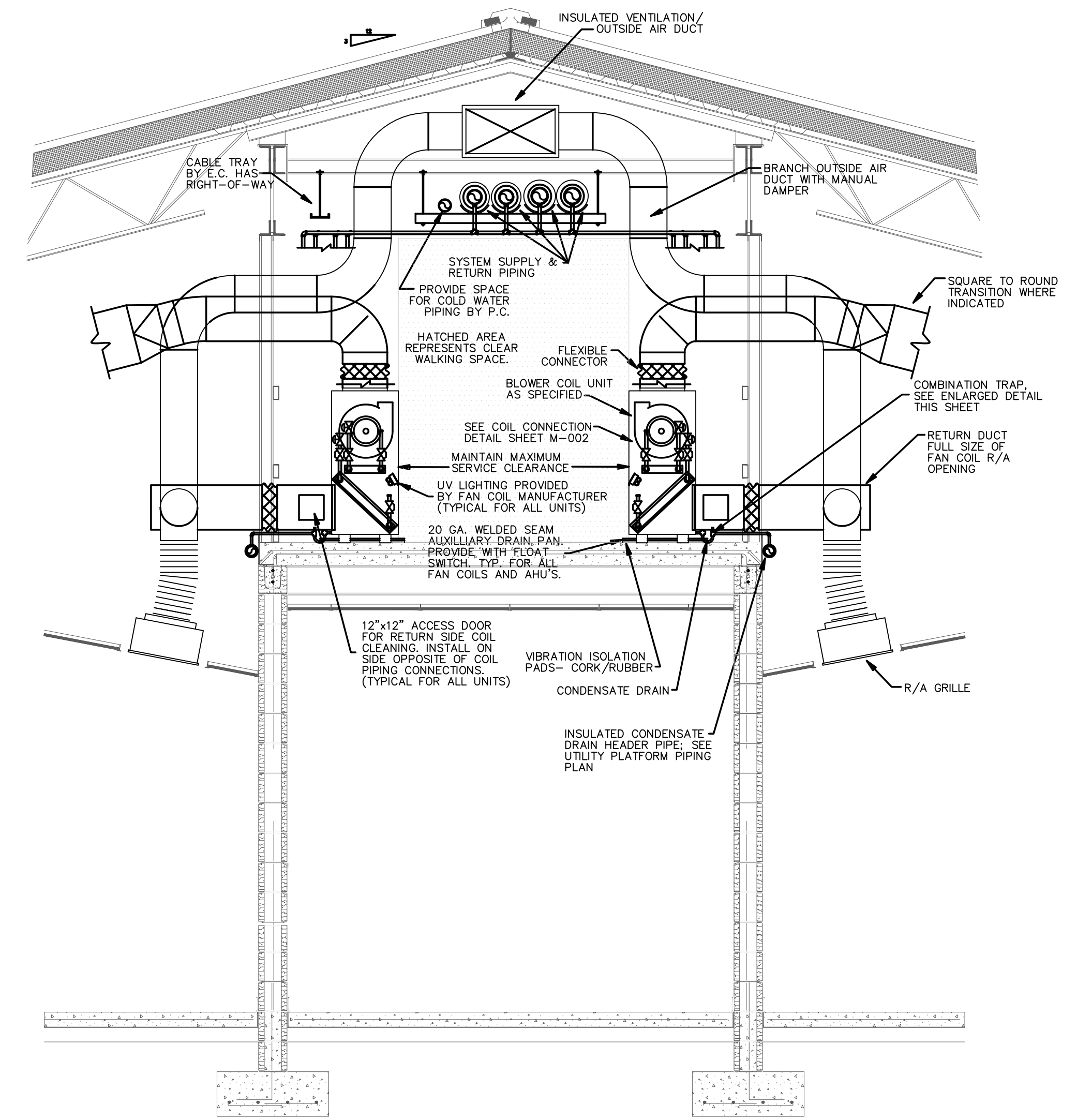
CHILLER PRIMARY PUMP: Chiller pumps CHP-3 shall be enabled by BMS based on a call for cooling. Pump Controller shall index Pump CHP-3 on when building return water temperature rises above 45°F (adjustable). BMS shall index on Chiller 3 once proof of water flow is established in the Primary Water Loop. Chiller 3 shall be indexed off once building return water temperature is below 42°F. Pump Controller shall index CHP-3 off once Chiller 3 has been indexed off. BMS shall monitor pump status via motor amperage draw.

BUILDING LOOP:

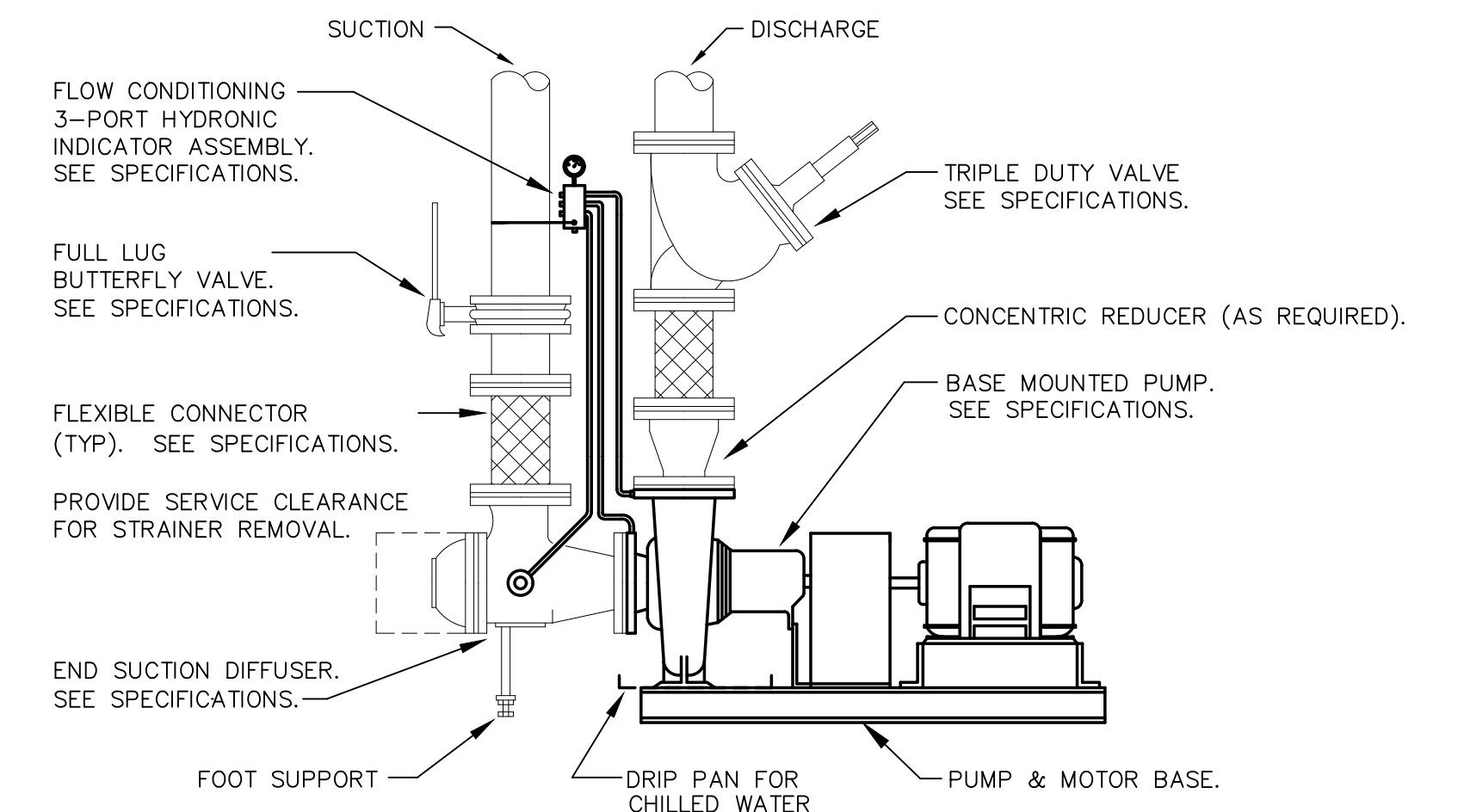
SECONDARY PUMPS: Existing to remain. No programming or controls work required for these pumps in this contract.



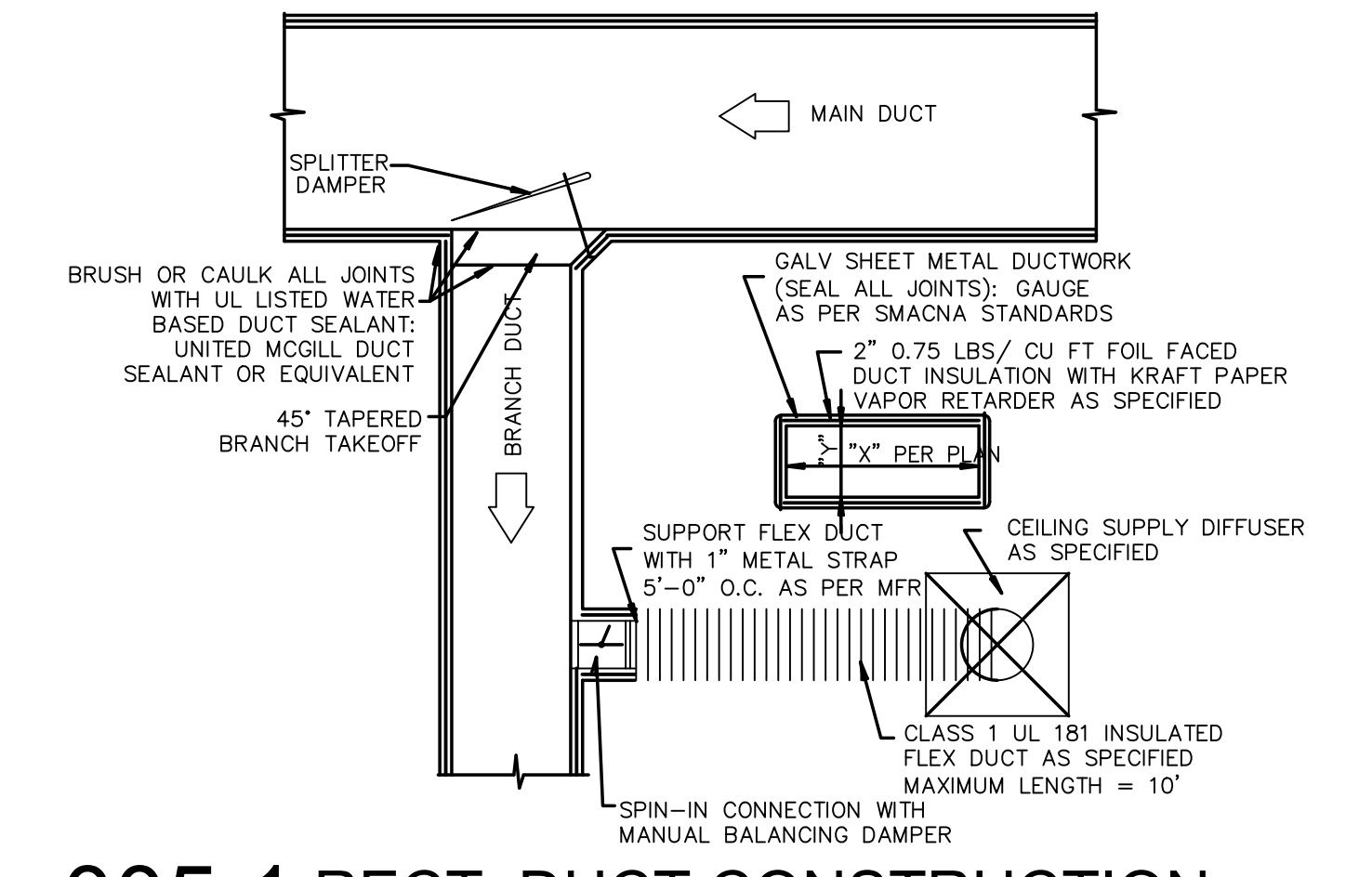
005.4 CHILLER PIPING DETAIL
SCALE: N.T.S.



005.3 SECTION AT PLATFORMS
SCALE: N.T.S.



005.2 END SUCTION PUMP DETAIL
SCALE: N.T.S.



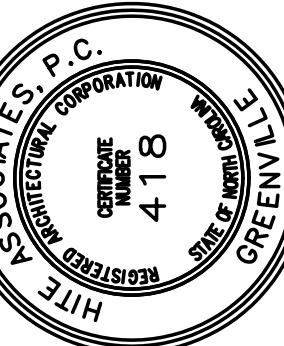
005.1 RECT. DUCT CONSTRUCTION
SCALE: N.T.S.

ENGINEERING SOURCE OF NC, PA. 102-42 Reptory Blvd. Greensboro, NC 27434 E-Mail Address: general@hiteassociates.com Web (252) 432-0328 • Fax (252) 432-0462 • Telex P-1073

Project No. 22112 Date: 03 Oct 2023 Drawing No. M 005

Revision	Date	By

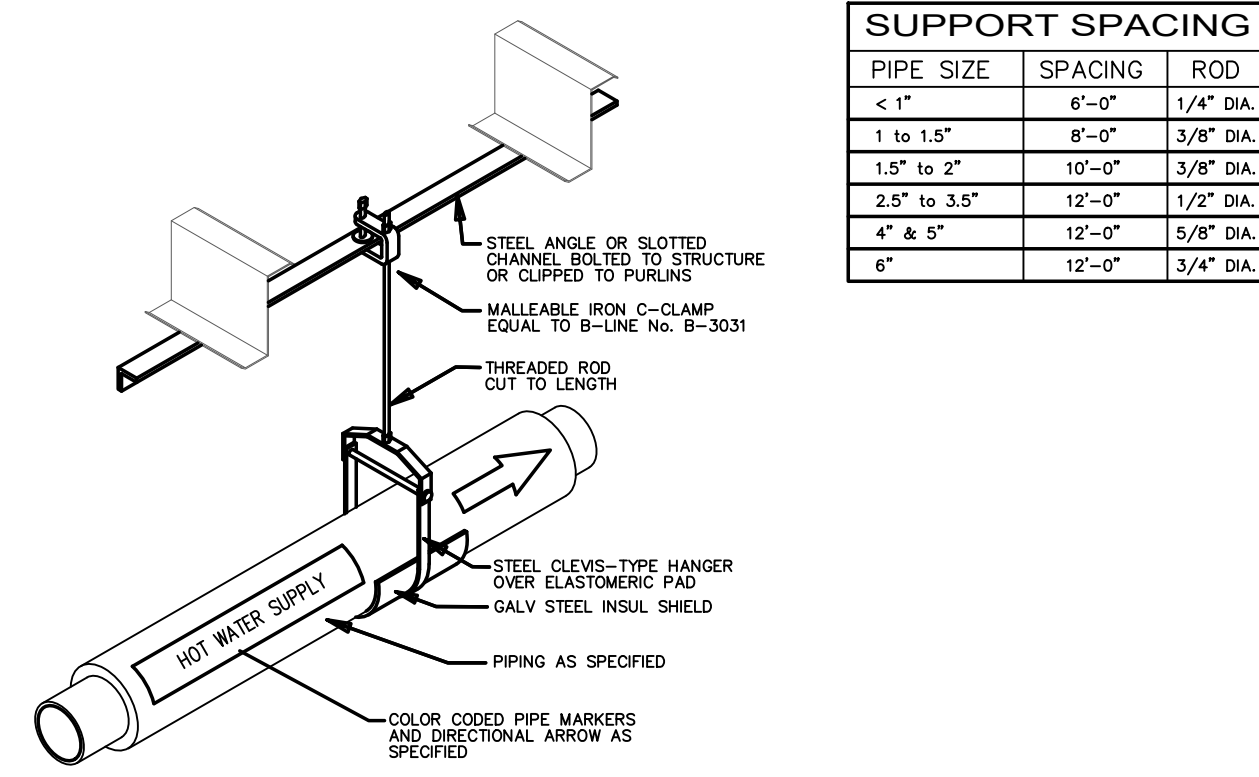
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New Additions & Renovations to
West Carteret High School
4700 Country Club Road, Morehead City, NC 28577
Carteret County Schools / North Carolina

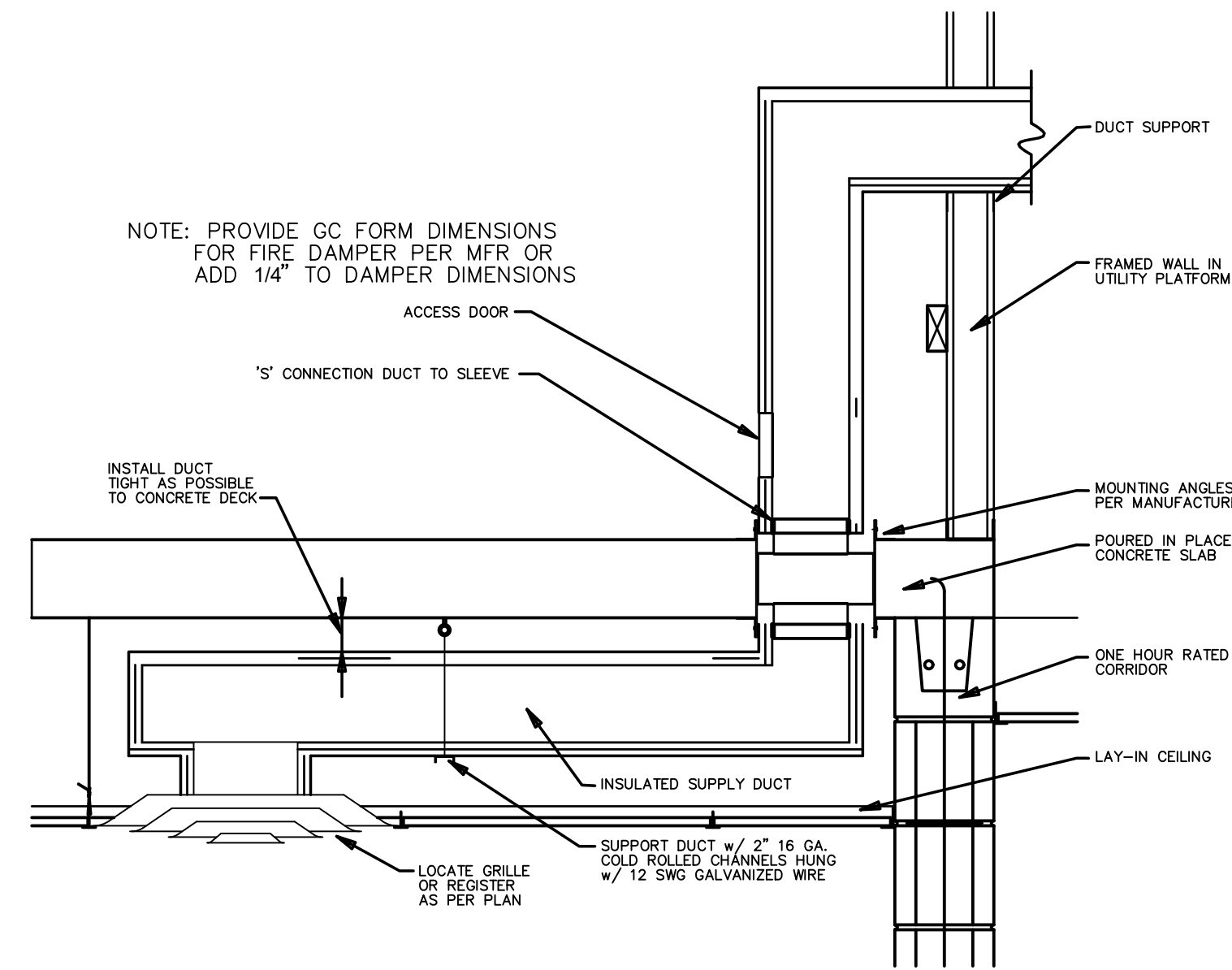
Project No. 22112 Date: 03 Oct 2023 Drawing No. M 005

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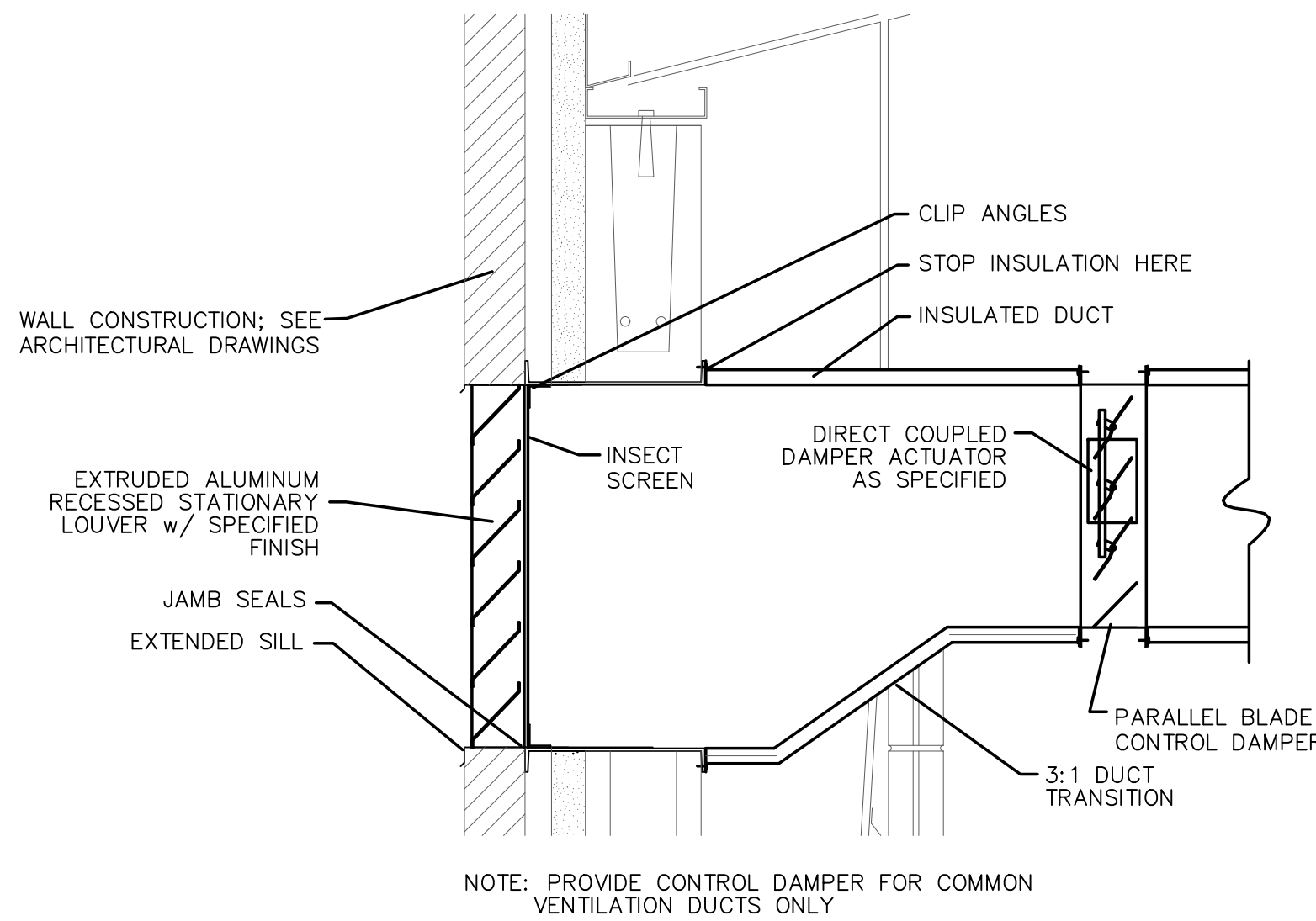


PIPE SIZE	SPACING	ROD
< 1"	6'-0"	1/4" DIA.
1 1/8" to 1 1/2"	8'-0"	3/8" DIA.
1 3/4" to 2"	10'-0"	3/8" DIA.
2 1/8" to 2 3/4"	12'-0"	1/2" DIA.
3" to 3 1/2"	12'-0"	5/8" DIA.
4" to 5"	12'-0"	5/8" DIA.
6"	12'-0"	3/4" DIA.

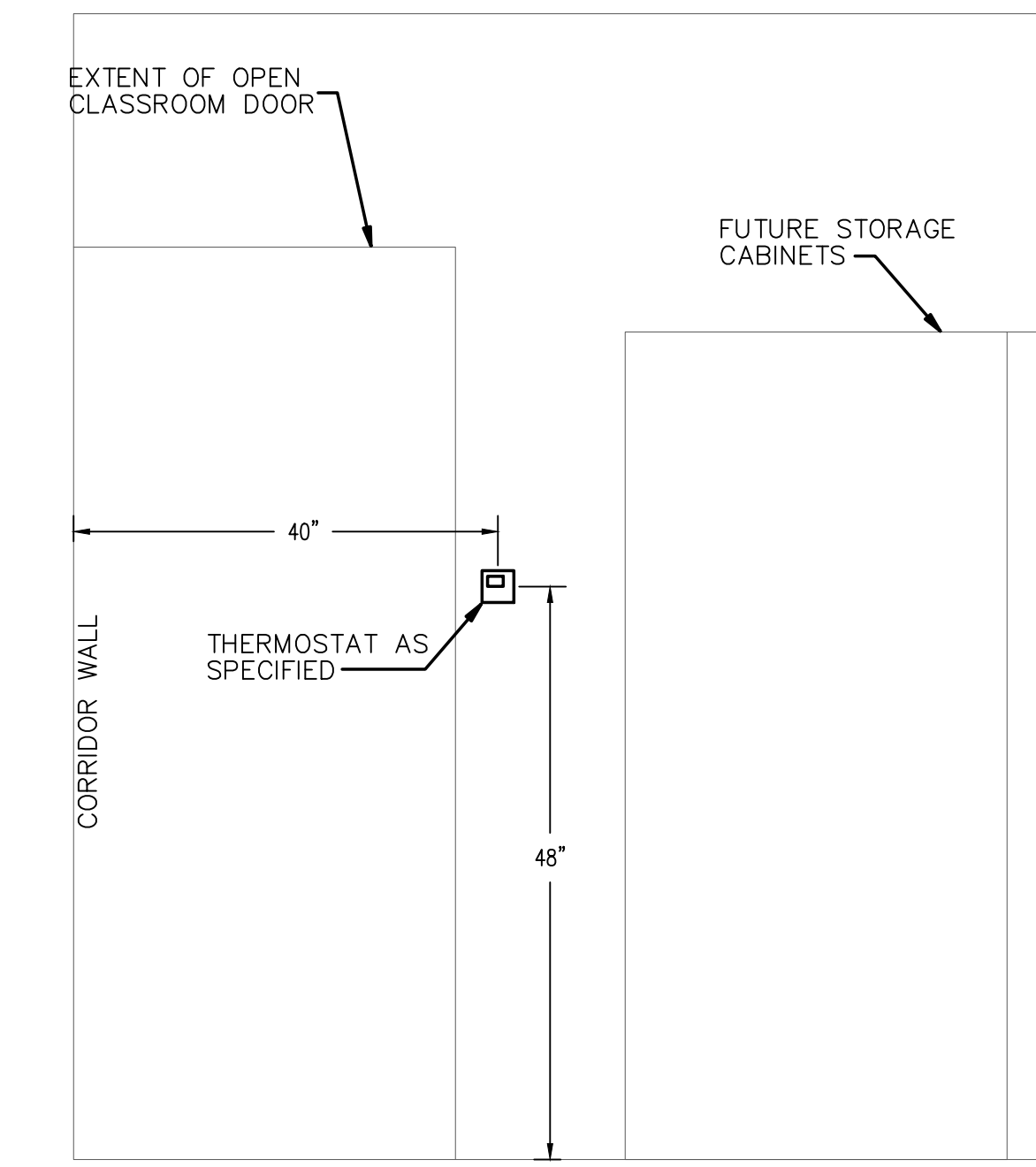
006.13 HYDRONIC PIPE HANGER DETAIL
SCALE: N.T.S.



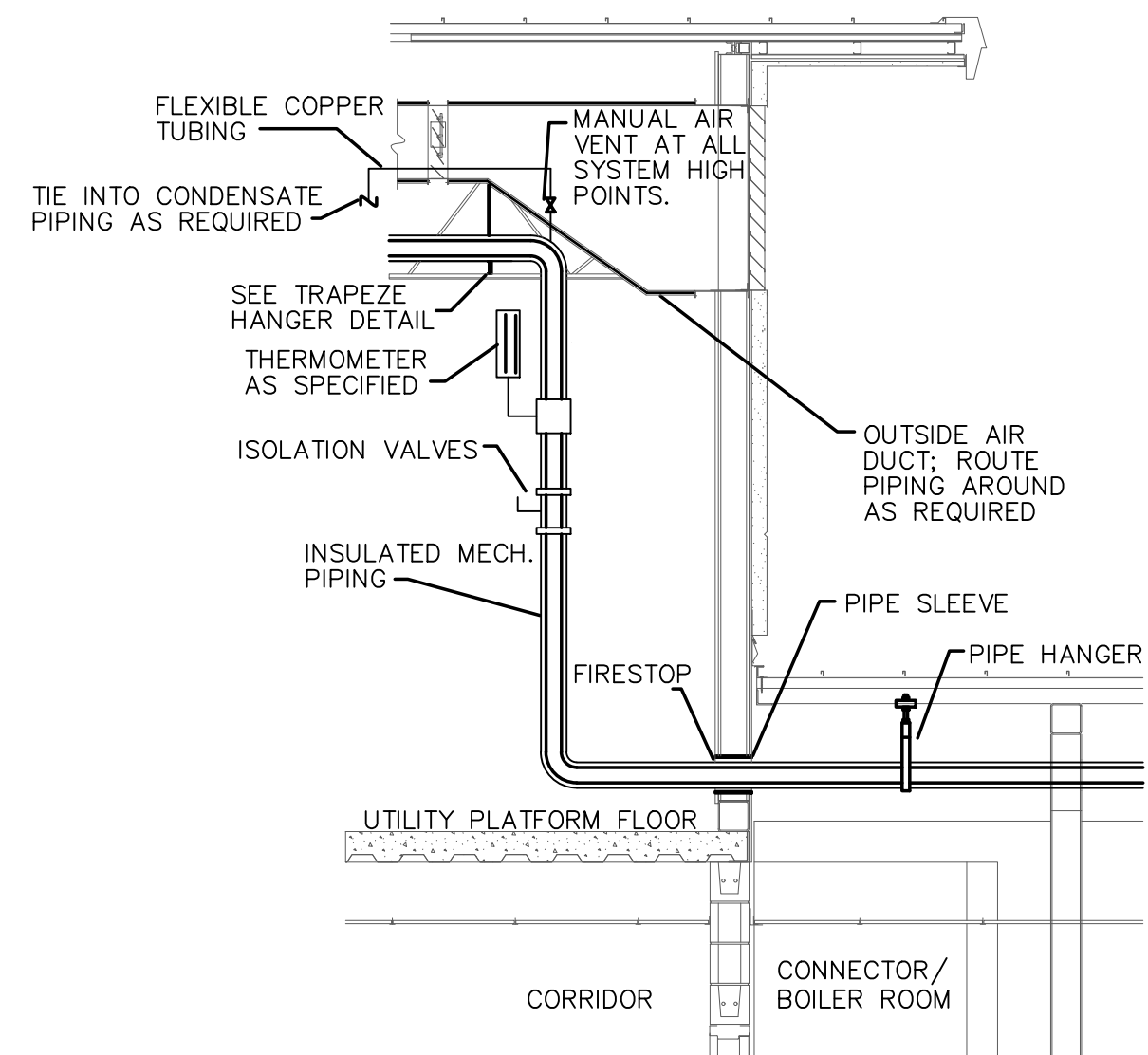
006.10 CORRIDOR DUCT PENETRATION DETAIL
SCALE: N.T.S.



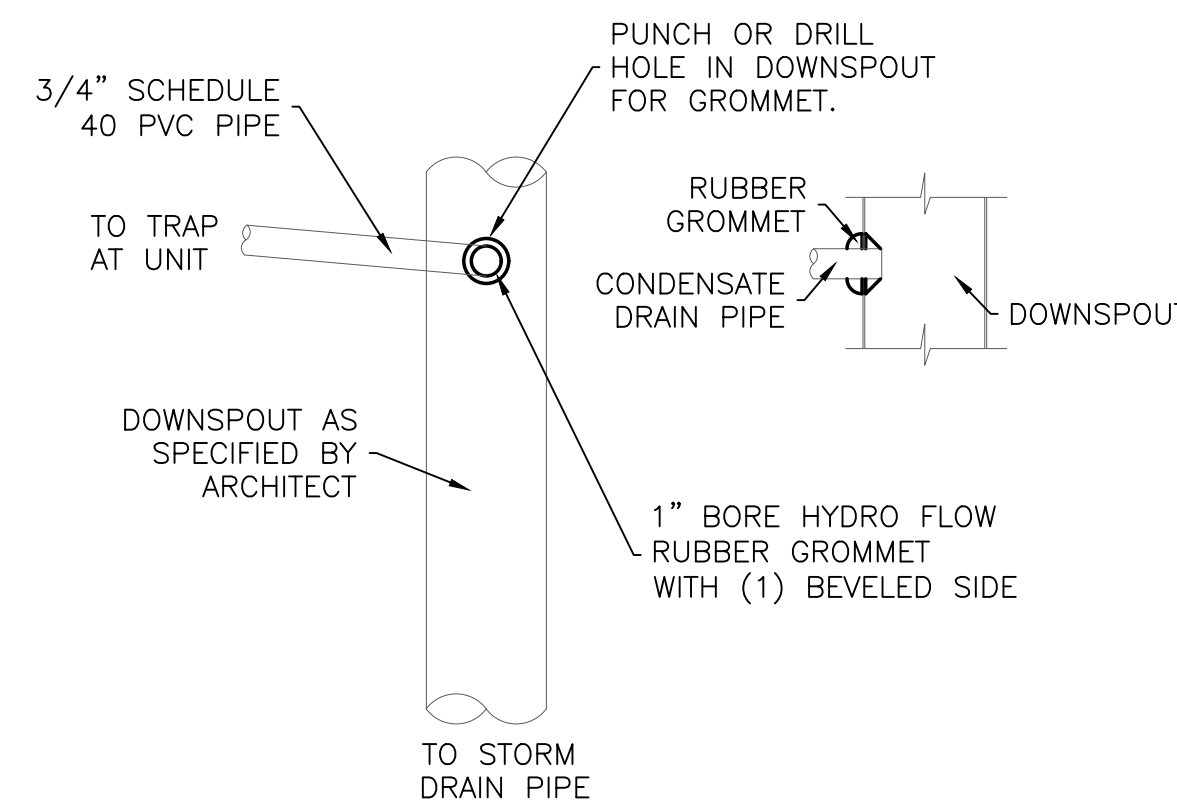
006.6 OUTSIDE AIR LOUVER DETAIL
SCALE: N.T.S.



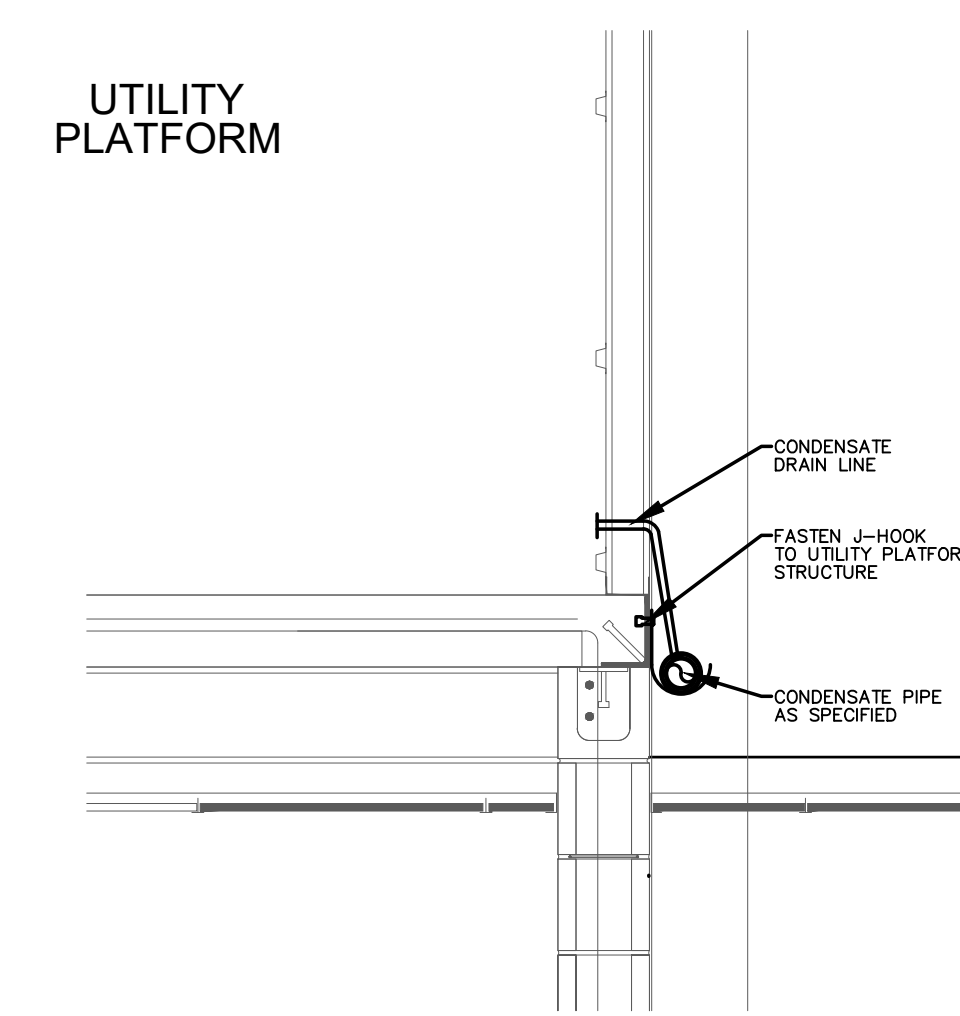
006.3 THERMOSTAT INSTALLATION DETAIL
SCALE: N.T.S.



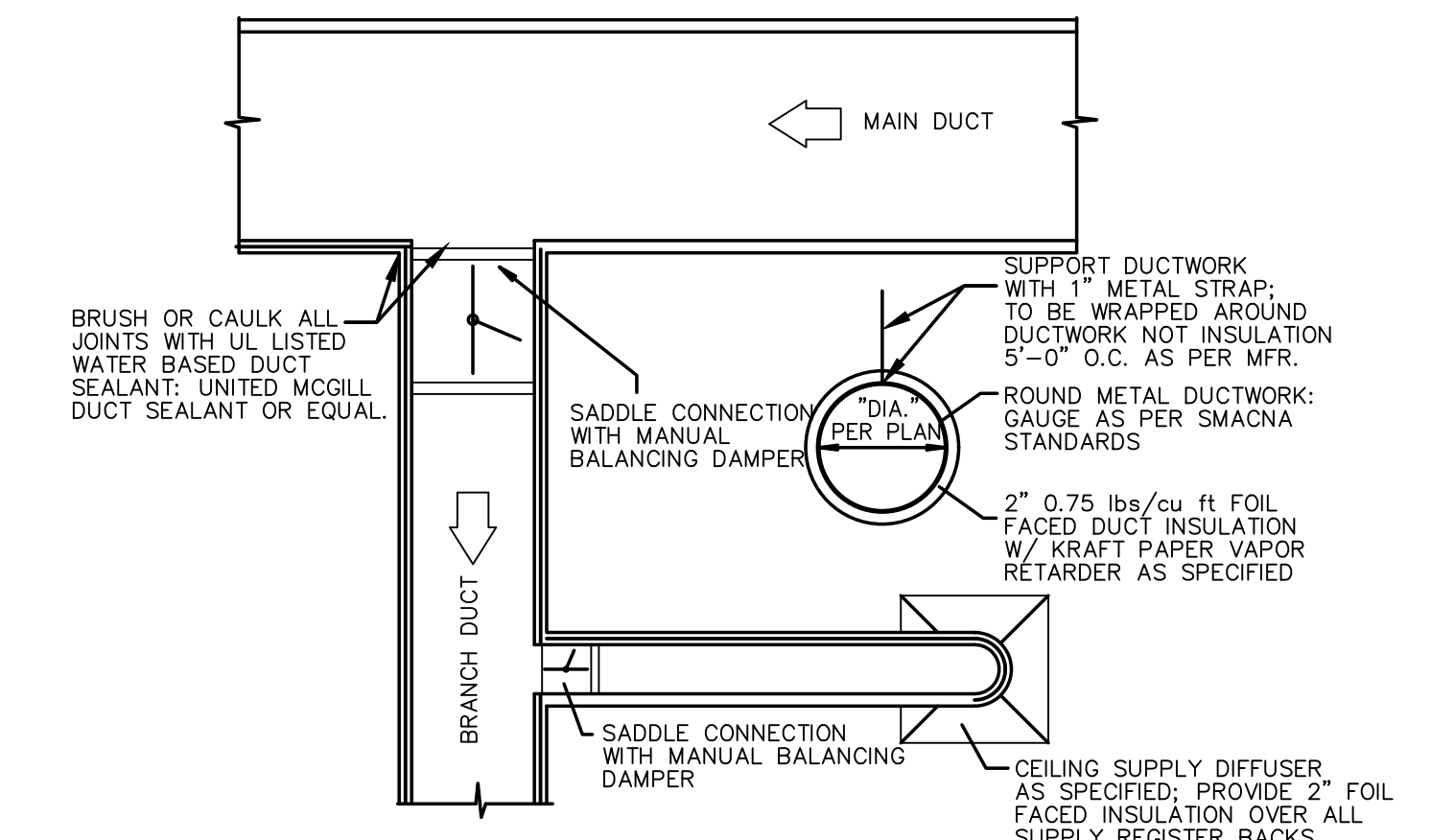
006.12 PIPING TRANSITION DETAIL
SCALE: N.T.S.



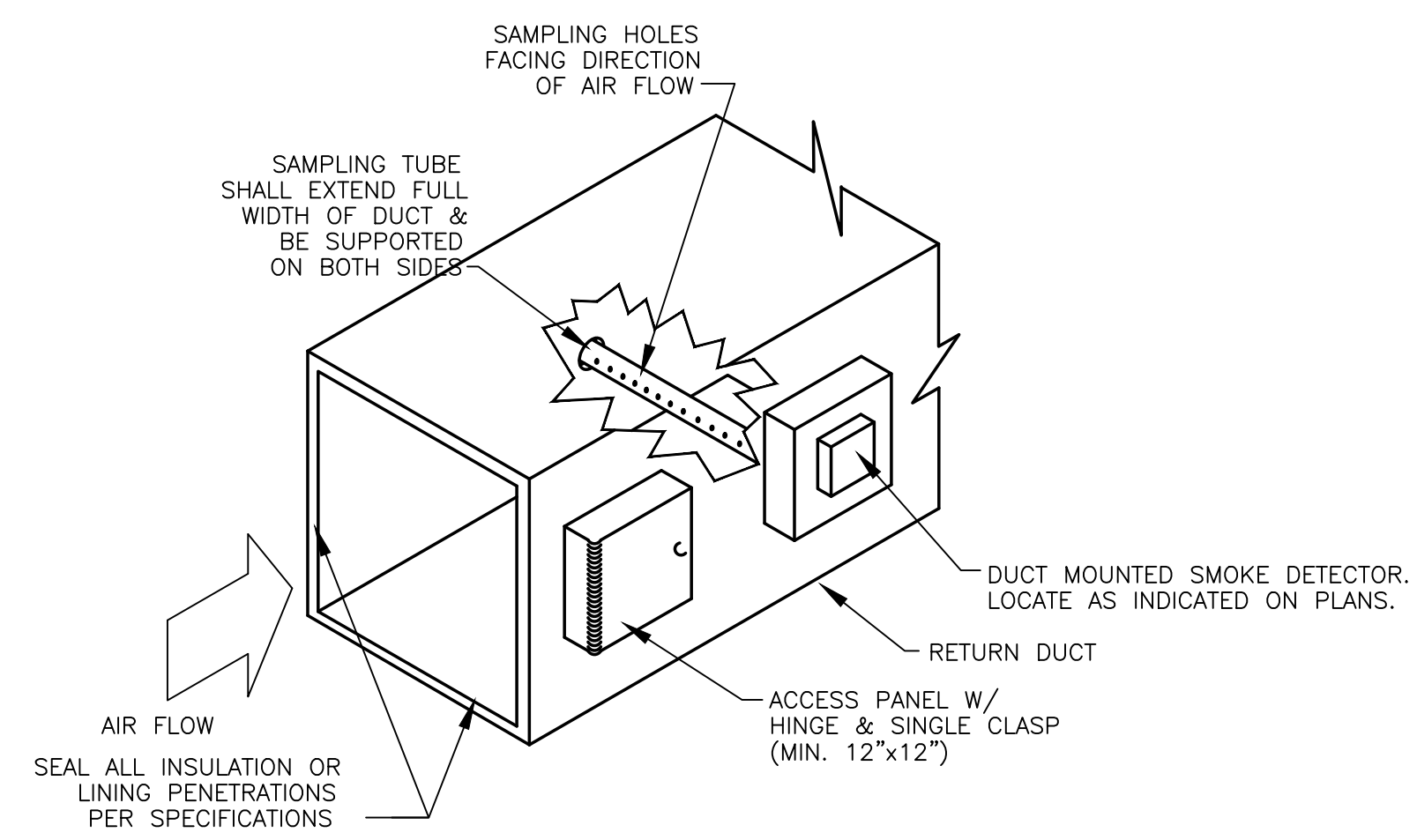
006.9 CONDENSATE CONNECTION DETAIL
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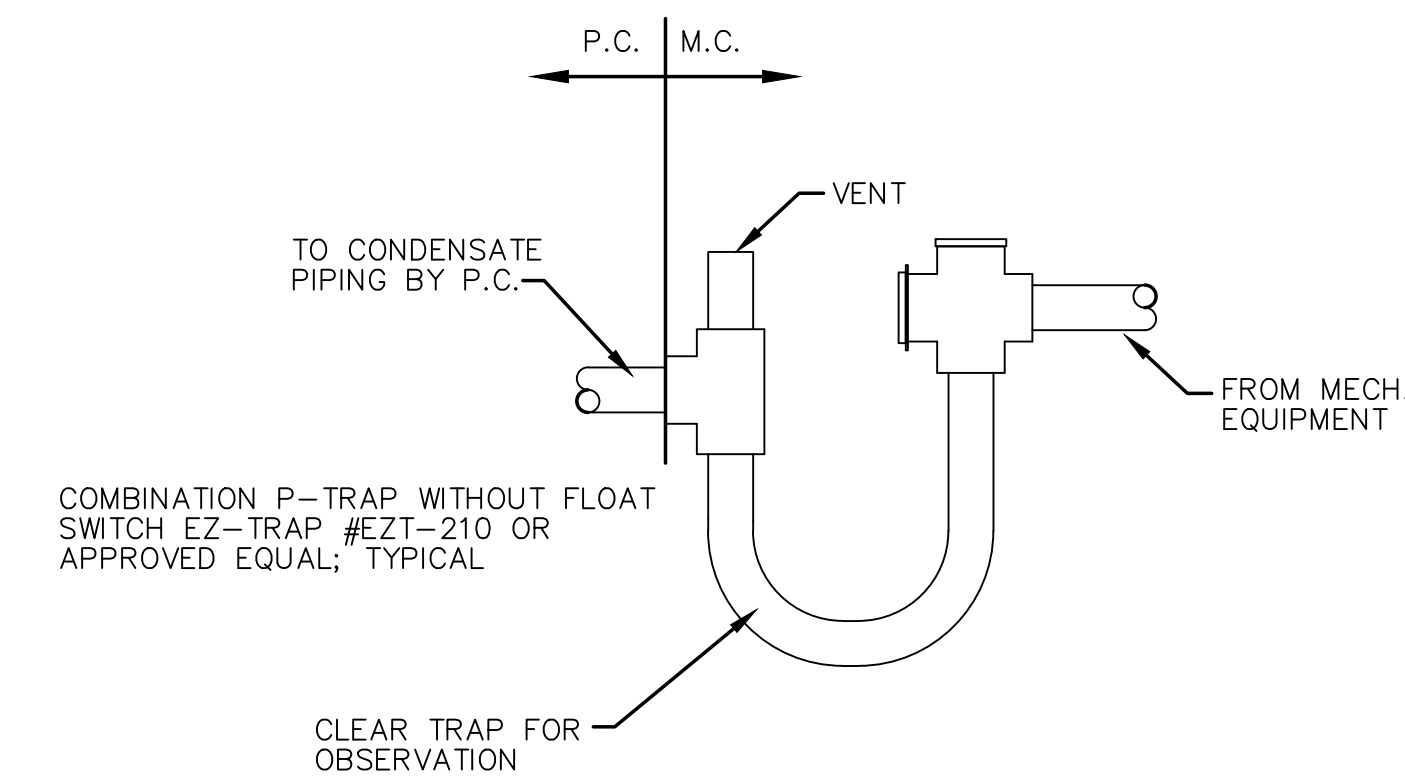
006.5 CONDENSATE PIPE DETAIL
SCALE: N.T.S.



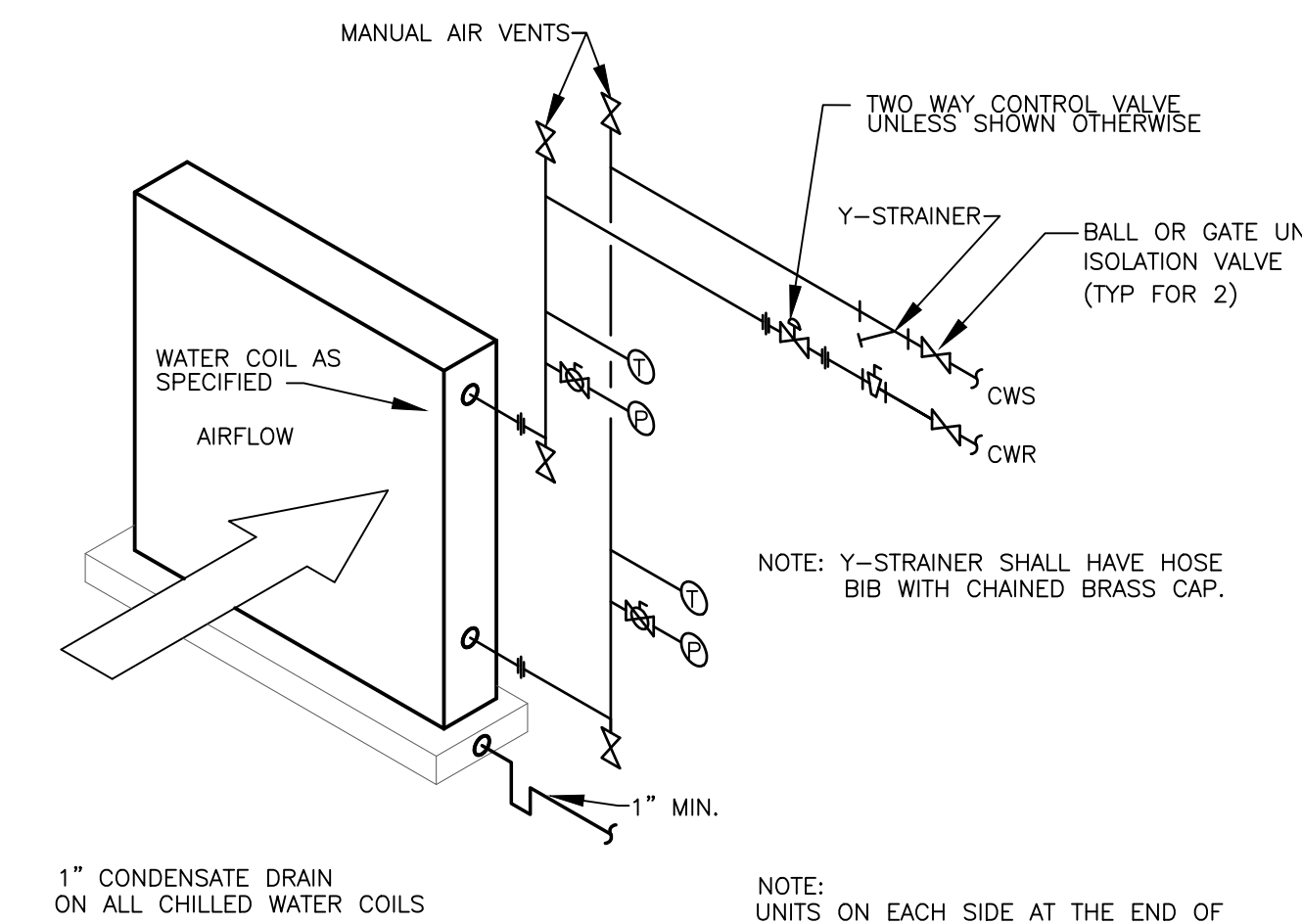
006.2 ROUND DUCT CONSTRUCTION
SCALE: N.T.S.



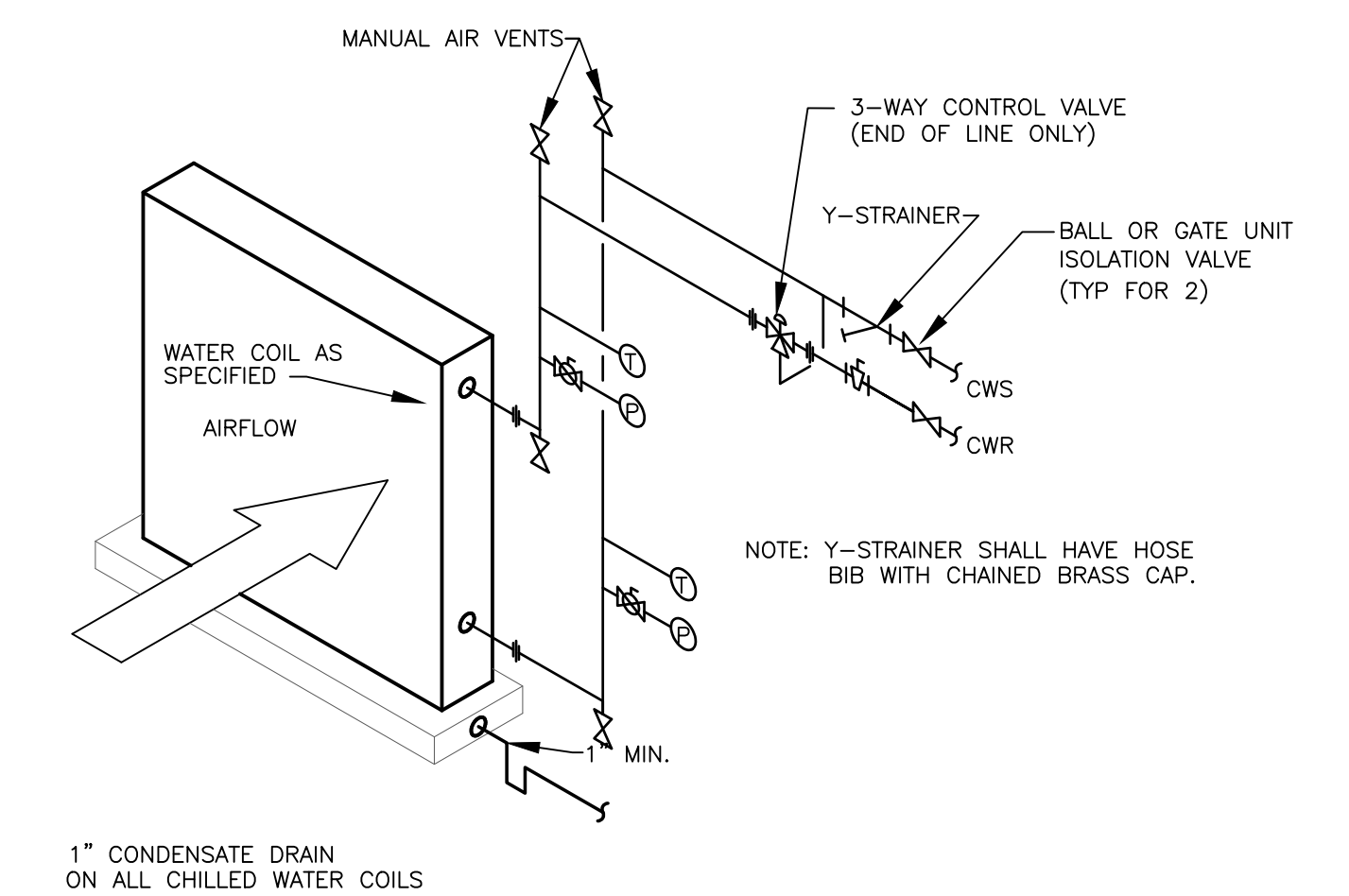
006.11 DUCT MOUNTED SMOKE DETECTOR DETAIL
SCALE: N.T.S.



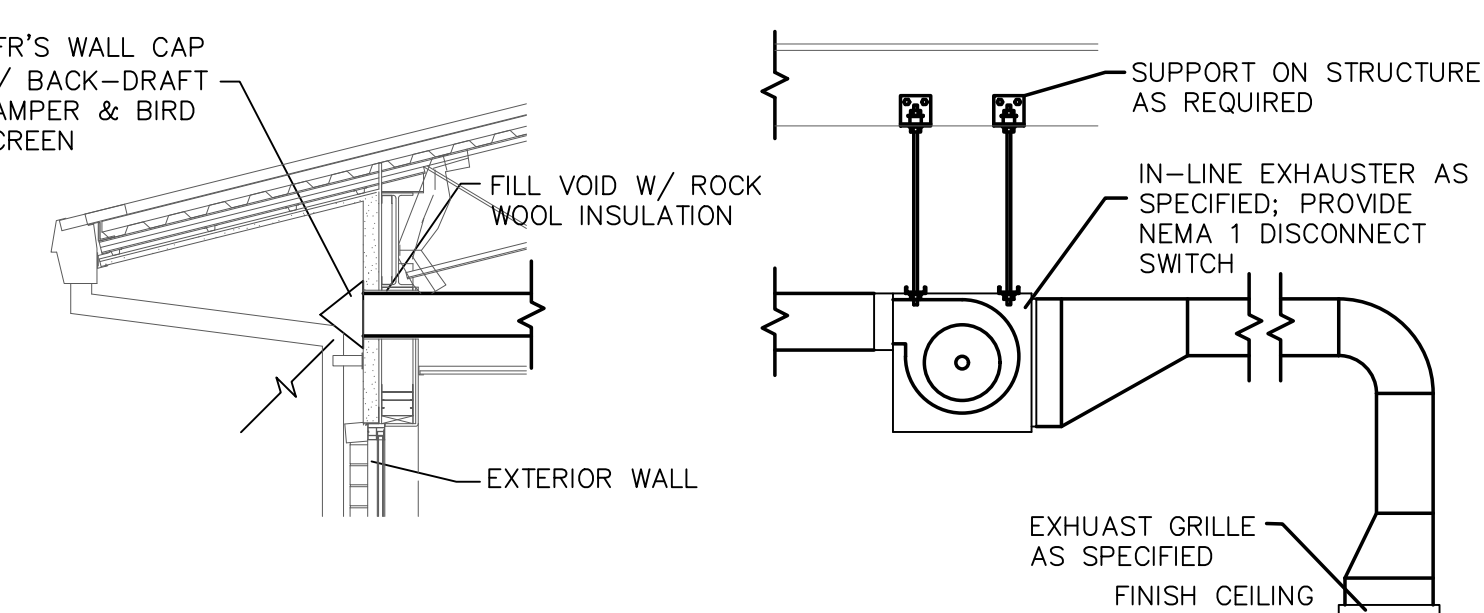
006.8 CONDENSATE TRAP DETAIL
SCALE: N.T.S.



006.4 2-WAY VALVE COIL PIPING DETAIL
SCALE: NONE



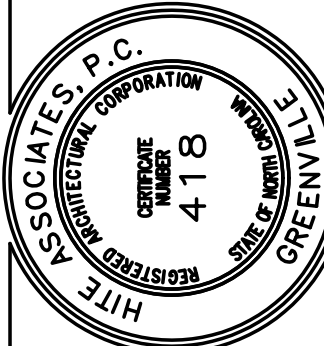
006.1 3-WAY VALVE COIL PIPING DETAIL
SCALE: NONE



006.7 EXHAUST FAN INSTALLATION DETAIL
SCALE: N.T.S.

No.	Date	Revision

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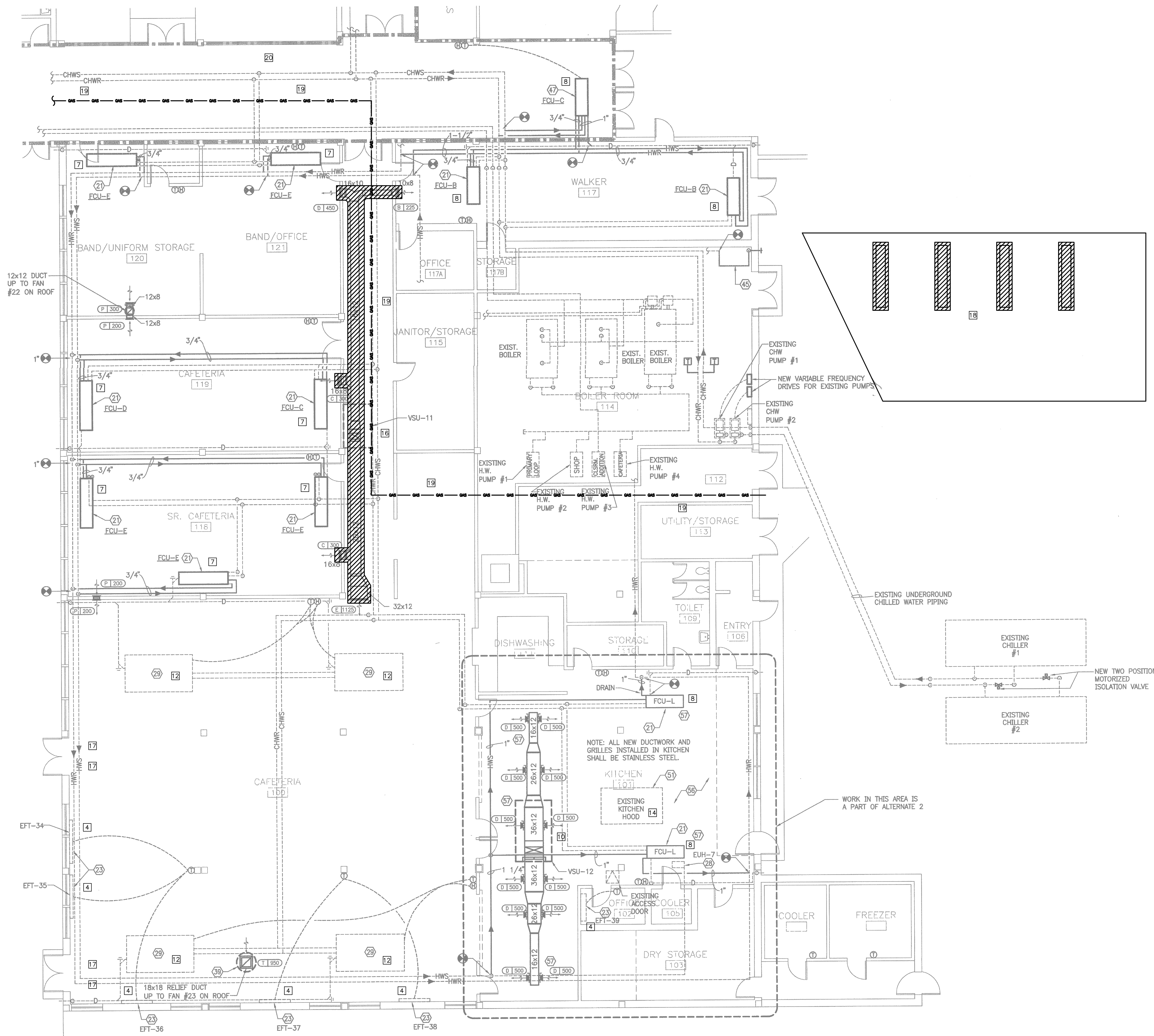


New Additions & Renovations to
West Carteret High School
4700 Country Club Road, Morehead City, NC 28577
Carteret County Schools / North Carolina

Project No.	22112
Date:	03 Oct 2023
Drawing No.	M 006

ES Project No. ES21080
ENGINEERING
SOURCE OF NC, P.A.
102-42 Regency Blvd., Greenville, NC 27834
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Tel (252) 432-0333 • Fax (252) 432-0462 • Twp P-1073

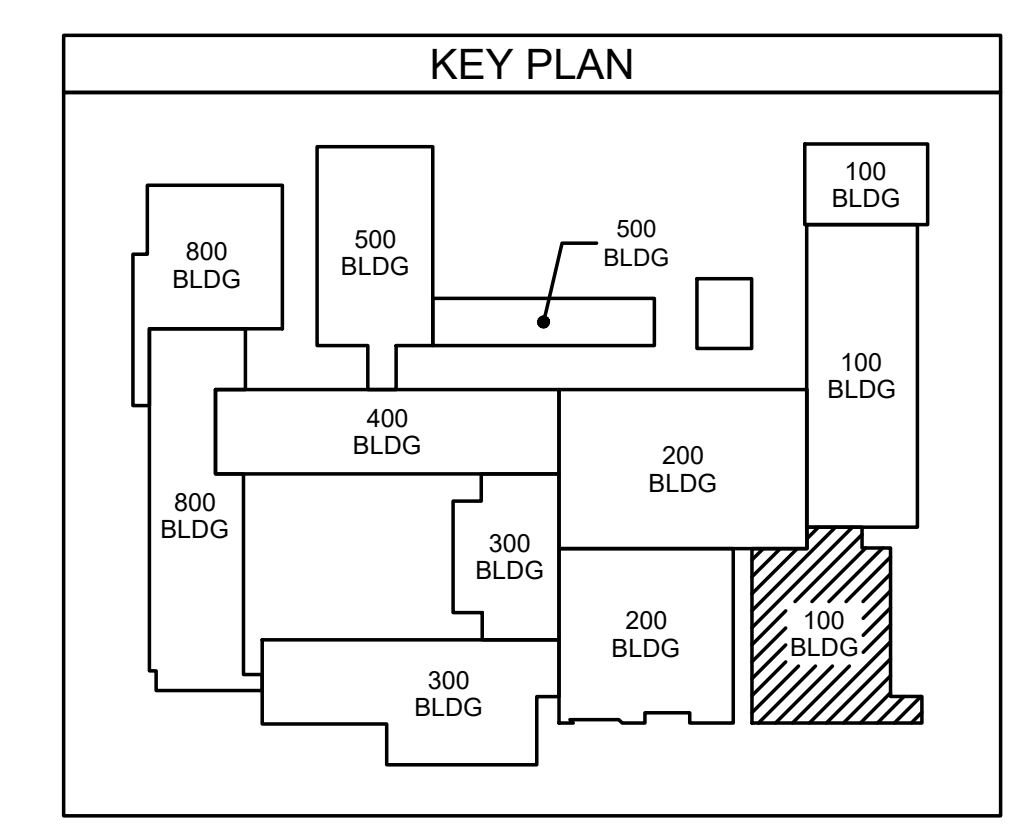
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MECHANICAL DEMOLITION NOTES:

- 1 DISCONNECT AND REMOVE EXISTING HYDRONIC AIR HANDLING UNIT. PROVIDE GYM FLOOR PROTECTION FROM WATER DAMAGE.
- 2 REMOVE EXISTING GYM ROOFTOP HVAC UNITS AND ASSOCIATED DUCTWORK. MAINTAIN DUCT OPENING IN EXTERIOR WALL FOR NEW DUCTWORK.
- 3 DISCONNECT AND REMOVE EXISTING UNIT HEATER AND ASSOCIATED THERMOSTAT AND CONTROL WIRING. REMOVE HYDRONIC PIPING BACK TO PIPING MAINS.
- 4 REMOVE EXISTING FIN TUBE RADIATOR AND REMOVE HYDRONIC PIPING BACK TO MAIN PIPING AND CAP. REMOVE ALL ASSOCIATED THERMOSTATS AND CONTROL WIRING.
- 5 REMOVE EXISTING EXHAUST FAN AND ALL ASSOCIATED DUCTWORK.
- 6 REMOVE ALL HYDRONIC PIPING IN GYM BACK TO ISOLATION VALVES AT PIPING MAINS.
- 7 REMOVE EXISTING FAN COIL UNIT. DISCONNECT HYDRONIC PIPING AND REMOVE PIPING BACK TO PIPING MAINS.
- 8 DISCONNECT AND REMOVE EXISTING FAN COIL UNIT. EXISTING PIPING AND CONTROL WIRING TO REMAIN FOR CONNECTION TO NEW FAN COIL UNIT.
- 9 REMOVE EXISTING CONDENSING UNIT, AIR HANDLING UNIT, AND ALL ASSOCIATED REFRIGERANT LINESETS. EXISTING DUCTWORK TO REMAIN FOR CONNECTION TO NEW AIR HANDLING UNIT.
- 10 REMOVE EXISTING ROOFTOP UNIT AND DISCONNECT FROM EXISTING DUCTWORK. EXISTING DUCTWORK TO REMAIN FOR RECONNECTION TO NEW ROOFTOP UNIT.
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- 13 REMOVE EXISTING HYDRONIC PUMP.
- 14 REMOVE EXISTING KITCHEN HOOD AND ASSOCIATED EXHAUST FAN AND MAKE-UP AIR UNIT.
- 15 REMOVE EXISTING RADIANT HEATERS LOCATED ABOVE EXISTING DROP CEILING IN ADMIN AREA. REMOVE HEATERS AND CUT AND CAP BRANCH PIPING BACK TO MAIN HOT WATER PIPING (APPROXIMATELY 8 TOTAL UNITS).
- 16 REMOVE EXISTING ROOFTOP UNIT AND ASSOCIATED DUCTWORK. CONTRACTOR SHALL REMOVE EXISTING ROOF CURB AND PATCH ROOF.
- 17 REMOVE EXISTING FLY FAN ABOVE DOOR. REMOVE CONDUIT AND

**100 BUILDING
010.1 MECHANICAL DEMOLITION PLAN**
SCALE: 1/8" = 1'-0"



PARTITION SCHEDULE

1 HOUR RATED PARTITION
2 HOUR RATED PARTITION
4 HOUR RATED PARTITION

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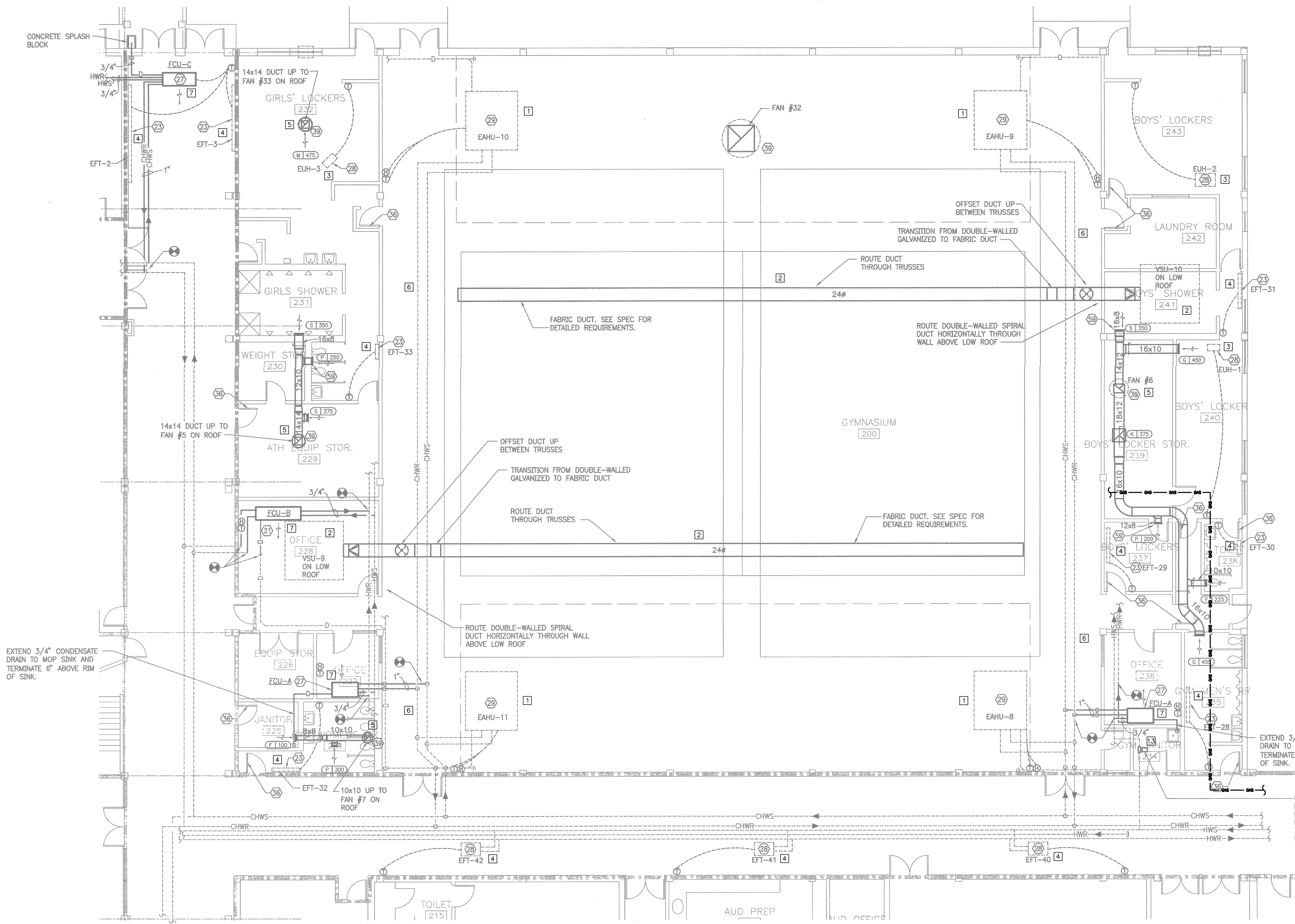
102-42 Regency Blvd., Greensboro, NC 27434
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Web (252) 432-0328 • Fax (252) 432-0462 • Telex P-1073

D. Wilson
10/23/23
WILSON FOU

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Project No. 22112
Date: 03 Oct 2023
Drawing No. M 010

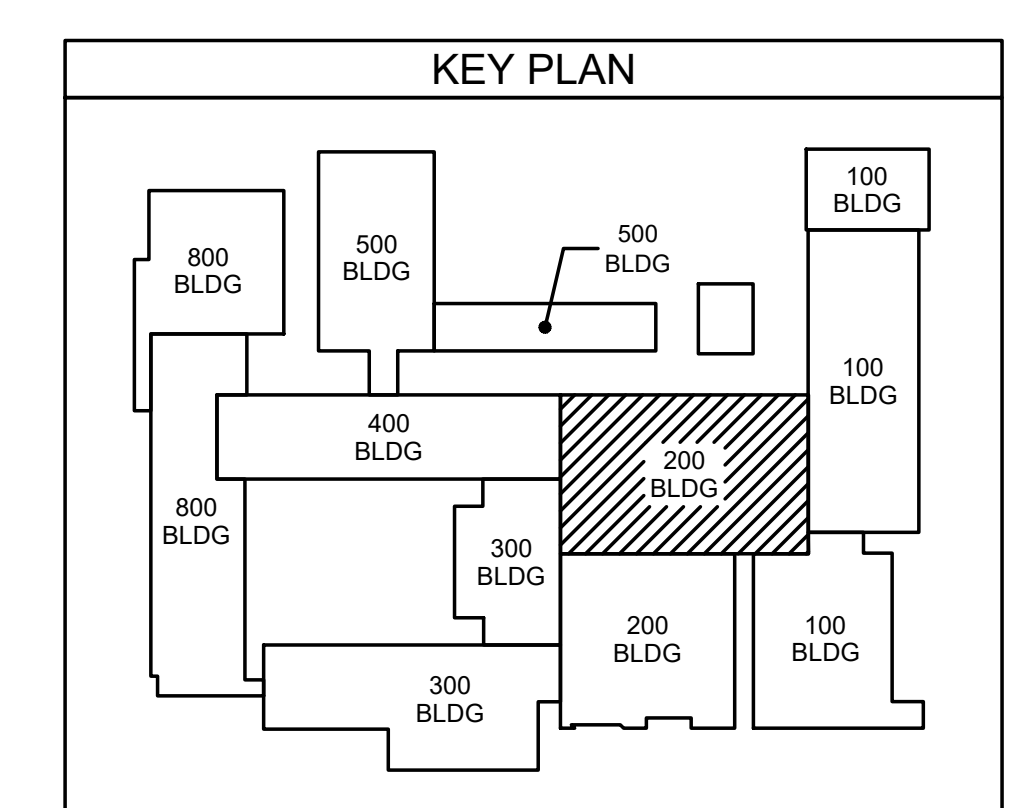
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MECHANICAL DEMOLITION NOTES:

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- 16 REMOVE EXISTING ROOFTOP UNIT AND ASSOCIATED DUCTWORK.

**200 BUILDING
020.1 MECHANICAL DEMOLITION PLAN**
SCALE: 1/8" = 1'-0"



PARTITION SCHEDULE	
1	1 HOUR RATED PARTITION
2	2 HOUR RATED PARTITION
4	4 HOUR RATED PARTITION

ENGINEERING
SOURCE OF NC, PA.

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E-Mail Address: general@hiteengineering.com
Web (252) 432-0328 • Fax (252) 432-0462 • File #E-1073

D. Wilson
10/23/23
HITE ASSOCIATES, P.C.

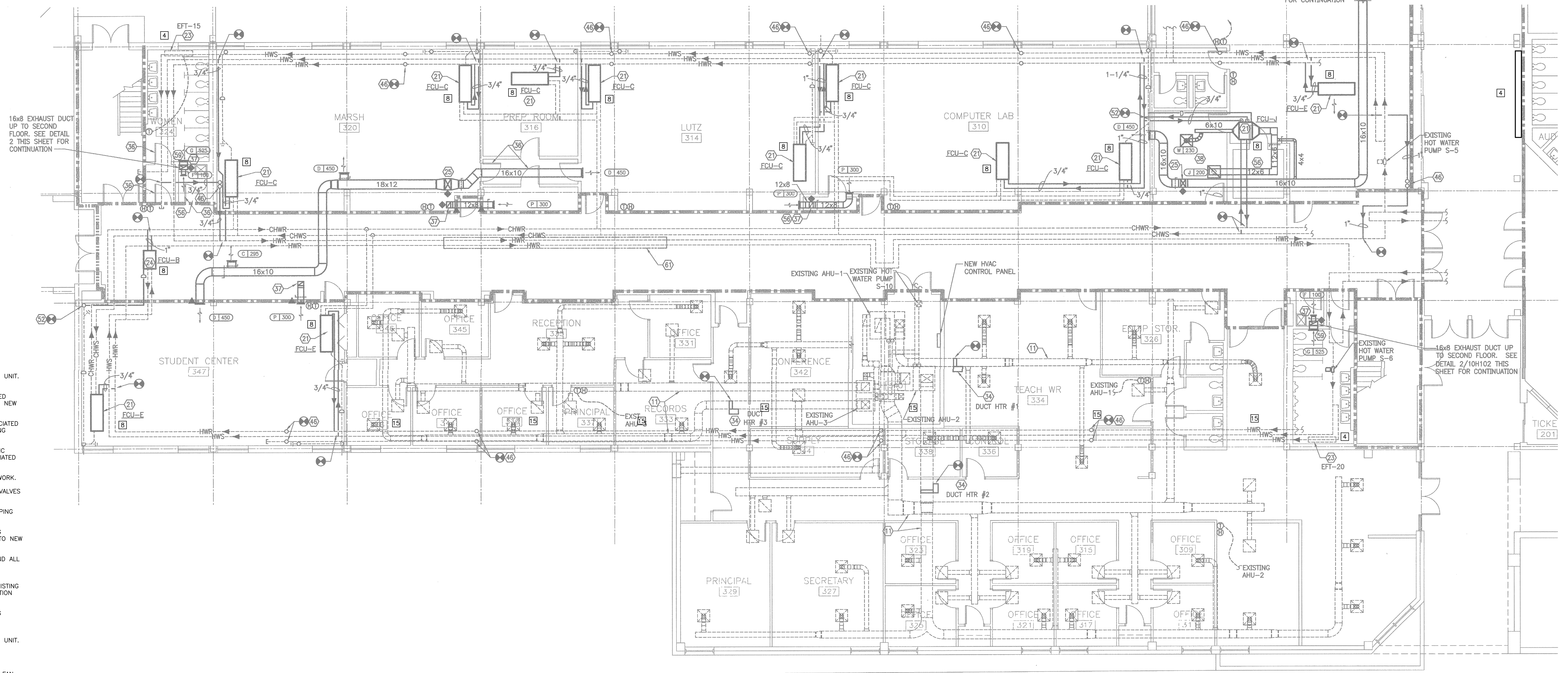
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HITE ASSOCIATES, P.C.
REGISTERED PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA
NO. 418
EXPIRES 12/31/24

**New Additions & Renovations to
West Carteret High School**
4700 Country Club Road, Morehead City, NC 28577
Carteret County Schools / North Carolina

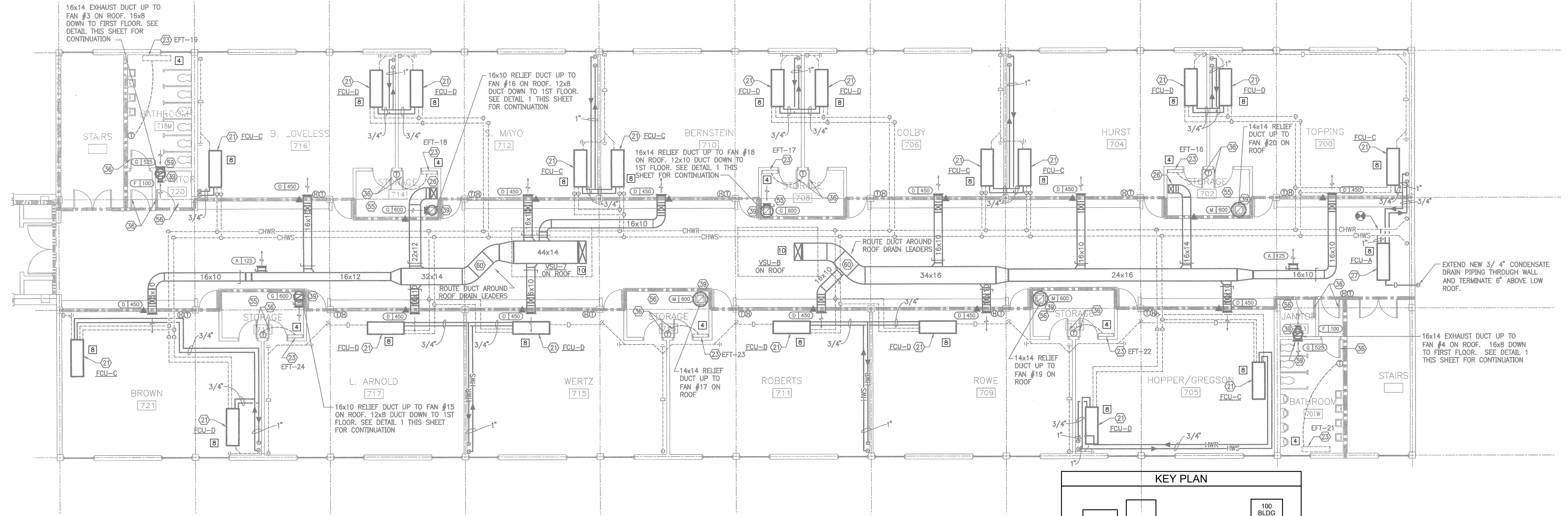
Project No. 22112
Date: 03 Oct 2023
Drawing No. **M 020**



MECHANICAL DEMOLITION NOTES:

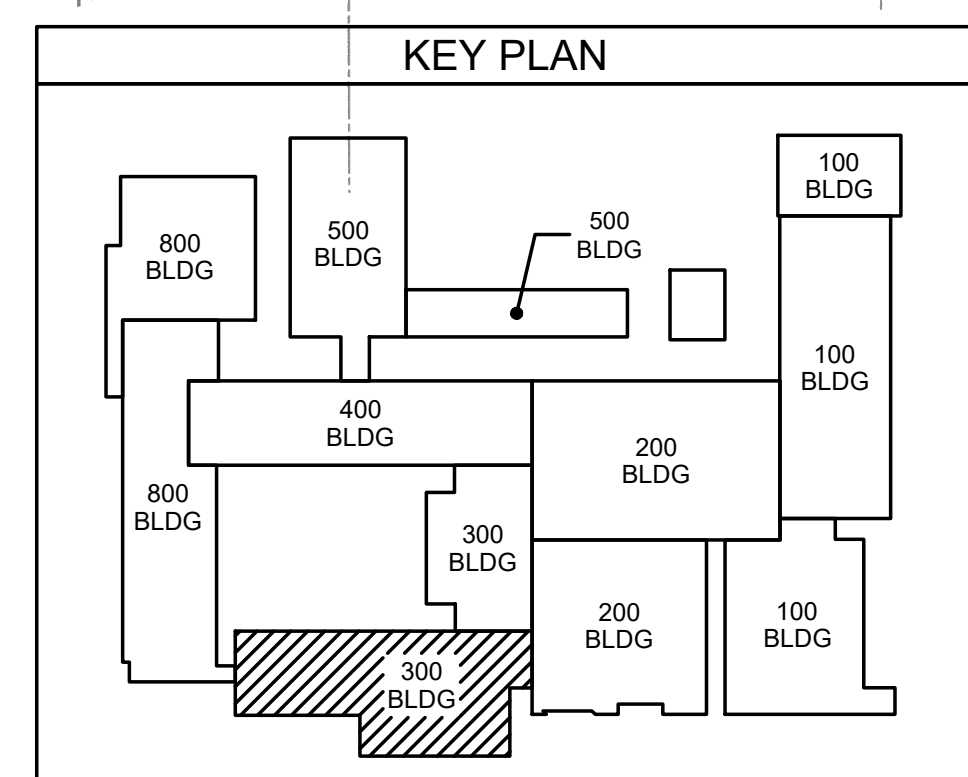
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300 CLASSROOM WING (FIRST FLOOR)
030.2 MECHANICAL DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"



PARTITION SCHEDULE	
1 HOUR RATED PARTITION	1 HOUR RATED PARTITION
2 HOUR RATED PARTITION	2 HOUR RATED PARTITION
4 HOUR RATED PARTITION	4 HOUR RATED PARTITION

700 CLASSROOM WING (SECOND FLOOR)
030.1 MECHANICAL DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"



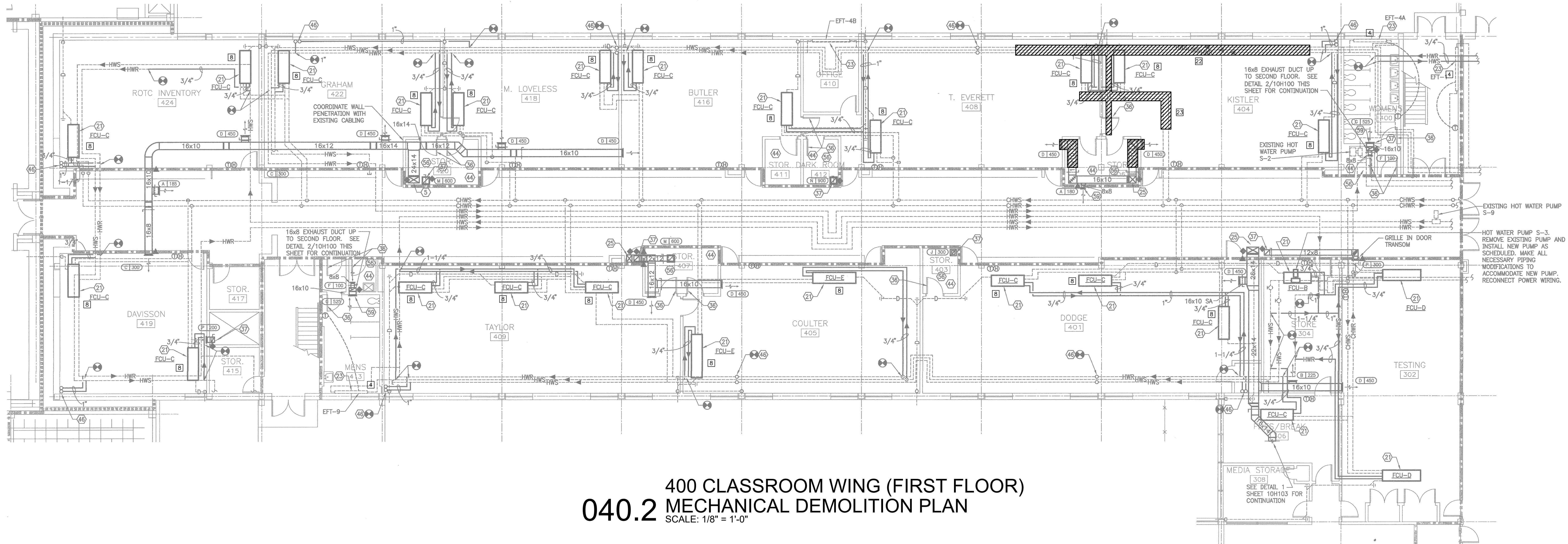
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 SOURCE OF NC, PA
 102-42 Rapunzel Blvd., Greensboro, NC 27434
 E-Mail Address: general@hiteassociates.com
 Web (252) 438-0328 • Fax (252) 438-0462 • Telex P-1073

Hite Associates, P.C.
 REGISTERED PROFESSIONAL ENGINEERING FIRM
 LICENSE NO. 418
 GREENVILLE, NC

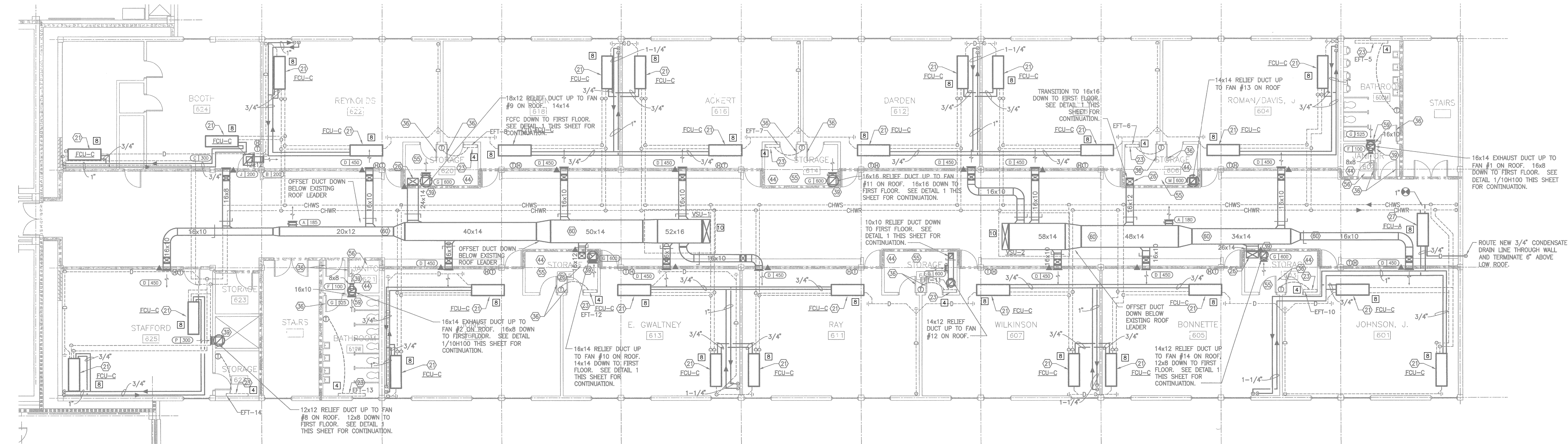
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New Additions & Renovations to West Carteret High School
 4700 Country Club Road, Morehead City, NC 28577
 Carteret County Schools / North Carolina

Project No. 22112
 Date: 03 Oct 2023
 Drawing No. **M 030**



400 CLASSROOM WING (FIRST FLOOR)
040.2 MECHANICAL DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"

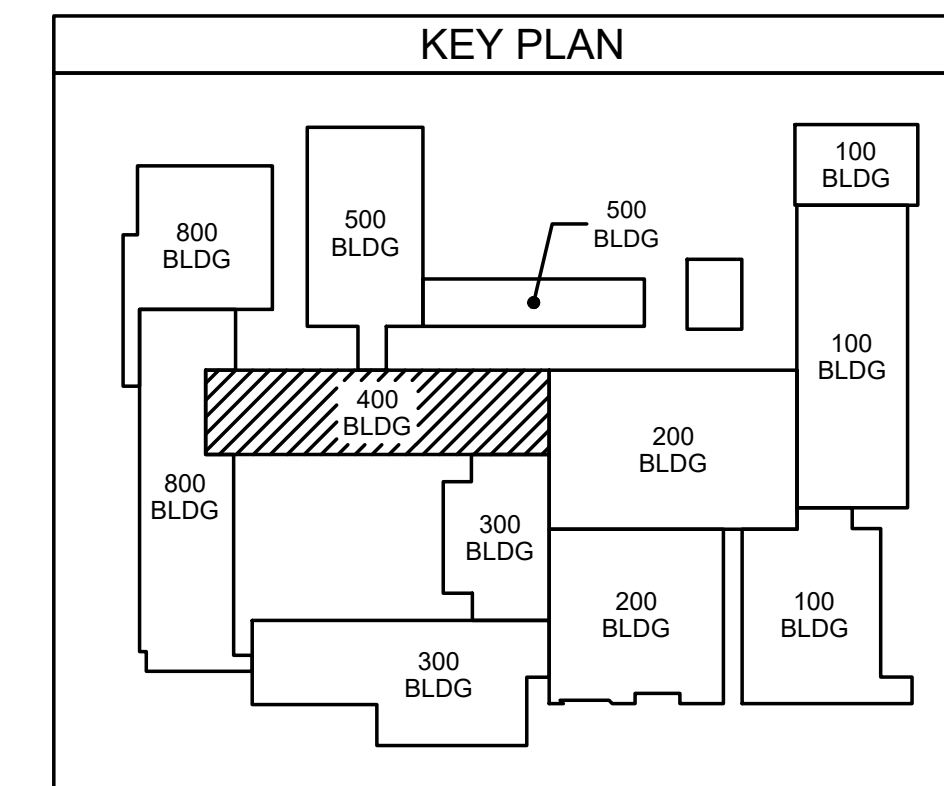


600 CLASSROOM WING (SECOND FLOOR)
040.1 MECHANICAL DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"

MECHANICAL DEMOLITION NOTES:

- 1 DISCONNECT AND REMOVE EXISTING HYDRONIC AIR HANDLING UNIT. PROVIDE GYM FLOOR PROTECTION FROM WATER DAMAGE.
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- 8 DISCONNECT AND REMOVE EXISTING FAN COIL UNIT. EXISTING PIPING AND CONTROL WIRING TO REMAIN FOR CONNECTION TO NEW FAN COIL UNIT.

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PARTITION SCHEDULE

1 HOUR RATED PARTITION	1
2 HOUR RATED PARTITION	2
4 HOUR RATED PARTITION	4

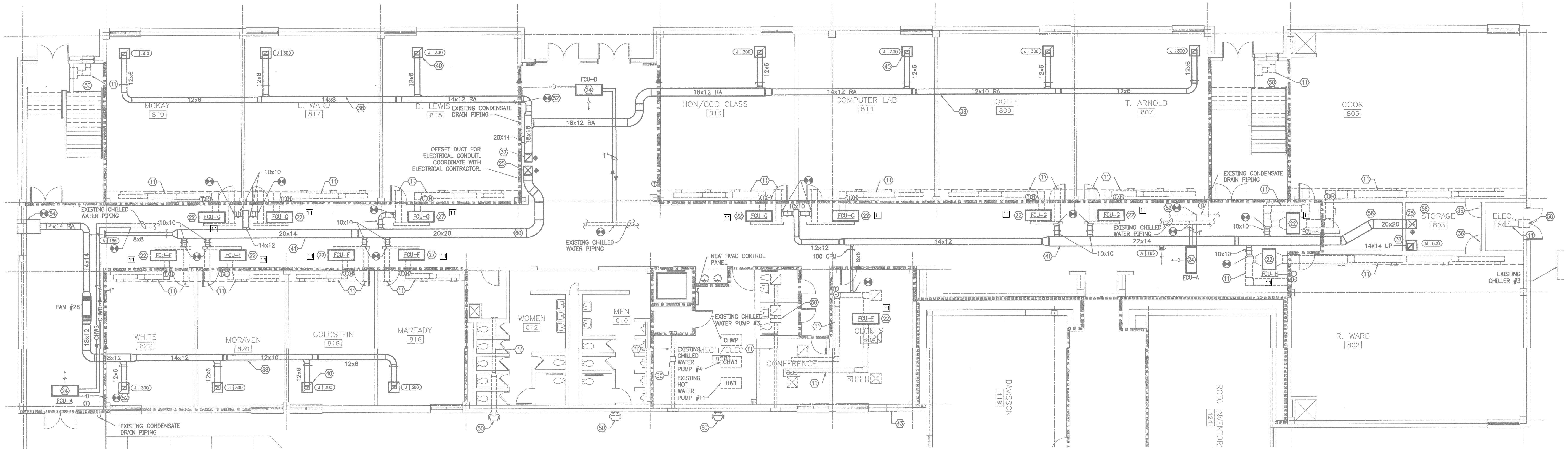
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 SOURCE OF NC, P.A.
 PROJECT NO: ES21080
 102-42 Regency Blvd., Greenville, NC 27834
 E-Mail Address: general@hiteassociates.com
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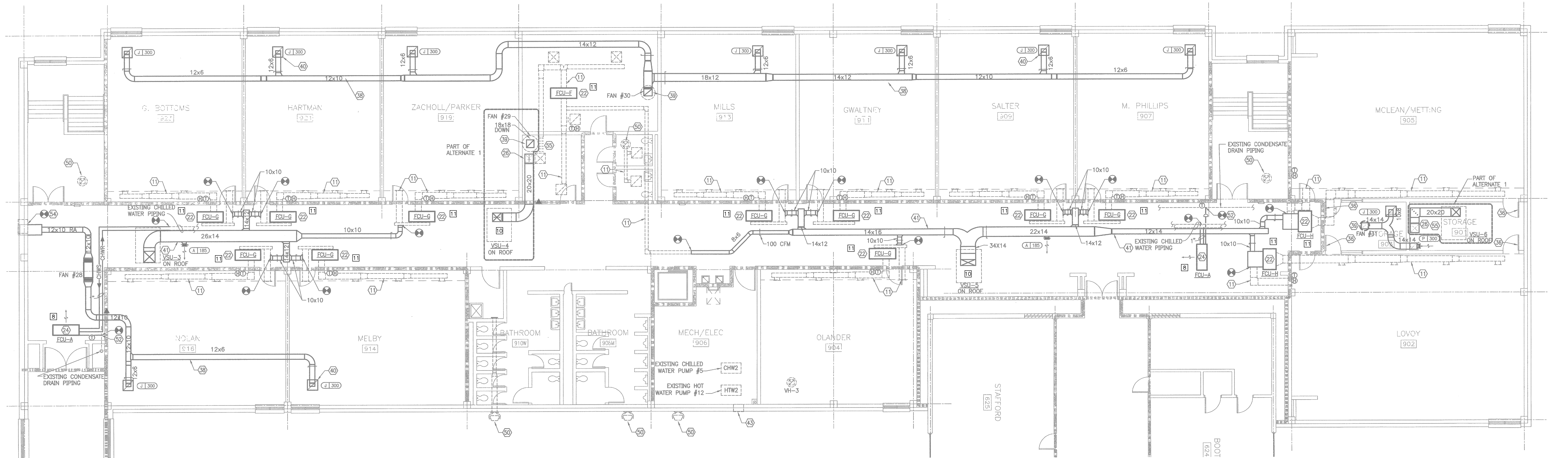
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New Additions & Renovations to West Carteret High School
 4700 Country Club Road, Morehead City, NC 28577
 Carteret County Schools / North Carolina

Project No: 22112
 Date: 03 Oct 2023
 Drawing No: **M 040**



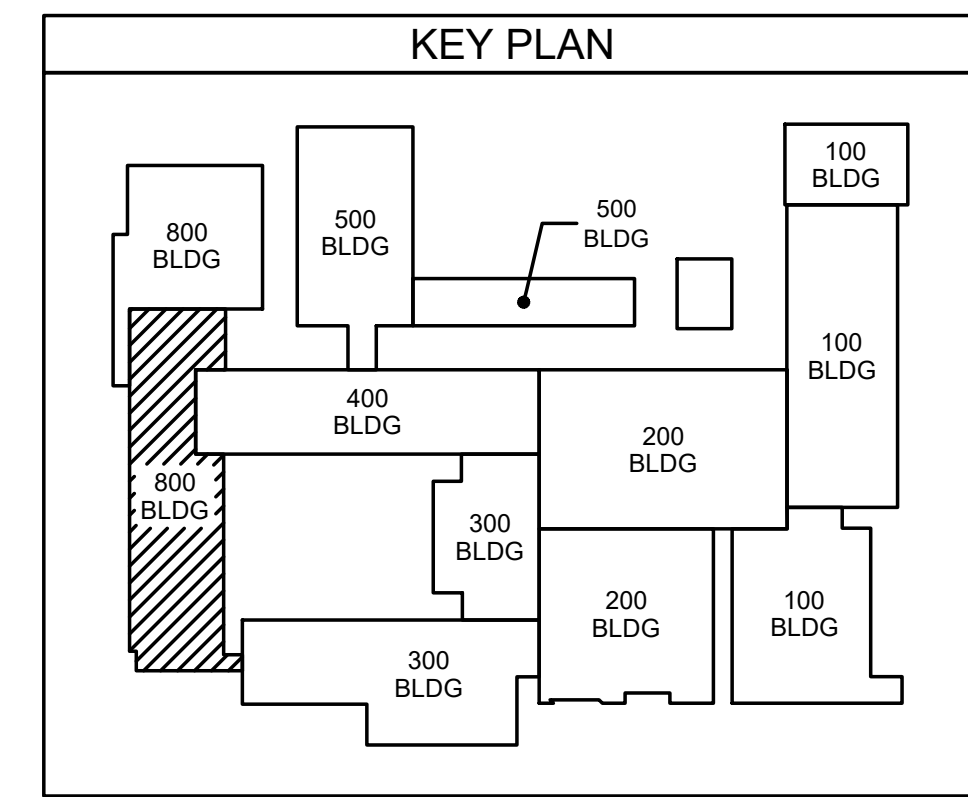
800 CLASSROOM WING (FIRST FLOOR)
080.2 MECHANICAL DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"



900 CLASSROOM WING (SECOND FLOOR)
080.1 MECHANICAL DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"

MECHANICAL DEMOLITION NOTES:

- 1 DISCONNECT AND REMOVE EXISTING HYDRONIC AIR HANDLING UNIT. PROVIDE GYM FLOOR PROTECTION FROM WATER DAMAGE.
- 2 REMOVE EXISTING GYM ROOFTOP HVAC UNITS AND ASSOCIATED DUCTWORK. MAINTAIN DUCT OPENING IN EXTERIOR WALL FOR NEW DUCTWORK.
- 3 DISCONNECT AND REMOVE EXISTING UNIT HEATER AND ASSOCIATED THERMOSTAT AND CONTROL WIRING. REMOVE HYDRONIC PIPING BACK TO PIPING MAINS.
- 4 DISCONNECT EXISTING FIN TUBE RADIATOR AND REMOVE HYDRONIC PIPING BACK TO MAIN PIPING. REMOVE ALL ASSOCIATED THERMOSTATS AND CONTROL WIRING.
- 5 REMOVE EXISTING EXHAUST FAN AND ALL ASSOCIATED DUCTWORK.
- 6 REMOVE ALL HYDRONIC PIPING IN GYM BACK TO ISOLATION VALVES AT PIPING MAINS.
- 7 REMOVE EXISTING FAN COIL UNIT. DISCONNECT HYDRONIC PIPING AND REMOVE PIPING BACK TO PIPING MAINS.
- 8 DISCONNECT AND REMOVE EXISTING FAN COIL UNIT. EXISTING PIPING AND CONTROL WIRING TO REMAIN FOR CONNECTION TO NEW FAN COIL UNIT.
- 9 REMOVE EXISTING CONDENSING UNIT, AIR HANDLING UNIT, AND ALL ASSOCIATED REFRIGERANT LINESETS. EXISTING DUCTWORK TO REMAIN FOR CONNECTION TO NEW AIR HANDLING UNIT.
- 10 REMOVE EXISTING ROOFTOP UNIT AND DISCONNECT FROM EXISTING DUCTWORK. EXISTING DUCTWORK TO REMAIN FOR RECONNECTION TO NEW ROOFTOP UNIT.
- 11 DISCONNECT AND REMOVE EXISTING FAN COIL UNIT. EXISTING PIPING, DUCTWORK, AND CONTROL WIRING TO REMAIN FOR CONNECTION TO NEW FAN COIL UNIT.
- 12 DISCONNECT AND REMOVE EXISTING HYDRONIC AIR HANDLING UNIT. REMOVE PIPING BACK TO EXISTING MAINS.
- 13 REMOVE EXISTING HYDRONIC PUMP.
- 14 REMOVE EXISTING KITCHEN HOOD AND ASSOCIATED EXHAUST FAN AND MAKE-UP AIR UNIT.
- 15 REMOVE EXISTING RADIANT HEATERS LOCATED ABOVE EXISTING DROP CEILING IN ADMIN AREA. REMOVE HEATERS AND CUT AND CAP BRANCH PIPING BACK TO MAIN HOT WATER PIPING (APPROXIMATELY 8 TOTAL UNITS).



PARTITION SCHEDULE

- 1 1 HOUR RATED PARTITION
- 2 2 HOUR RATED PARTITION
- 3 4 HOUR RATED PARTITION

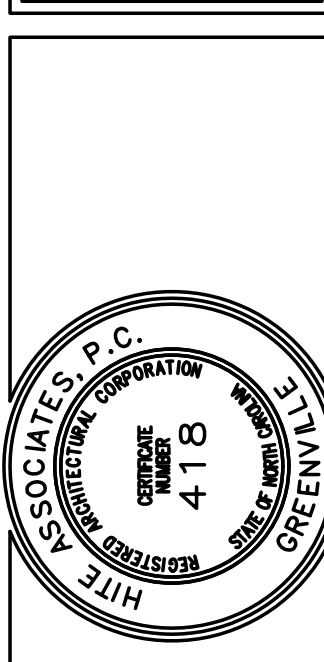
ENGINEERING
 SOURCE OF NC, PA.

102-42 Regency Blvd., Greenville, NC 27834
 E-Mail Address: general@hiteassociates.com
 Web (252) 432-0328 • Fax (252) 432-0462 • Telex (P)-1073

D. Wilson
 10/23/23

No.	Date	Revision

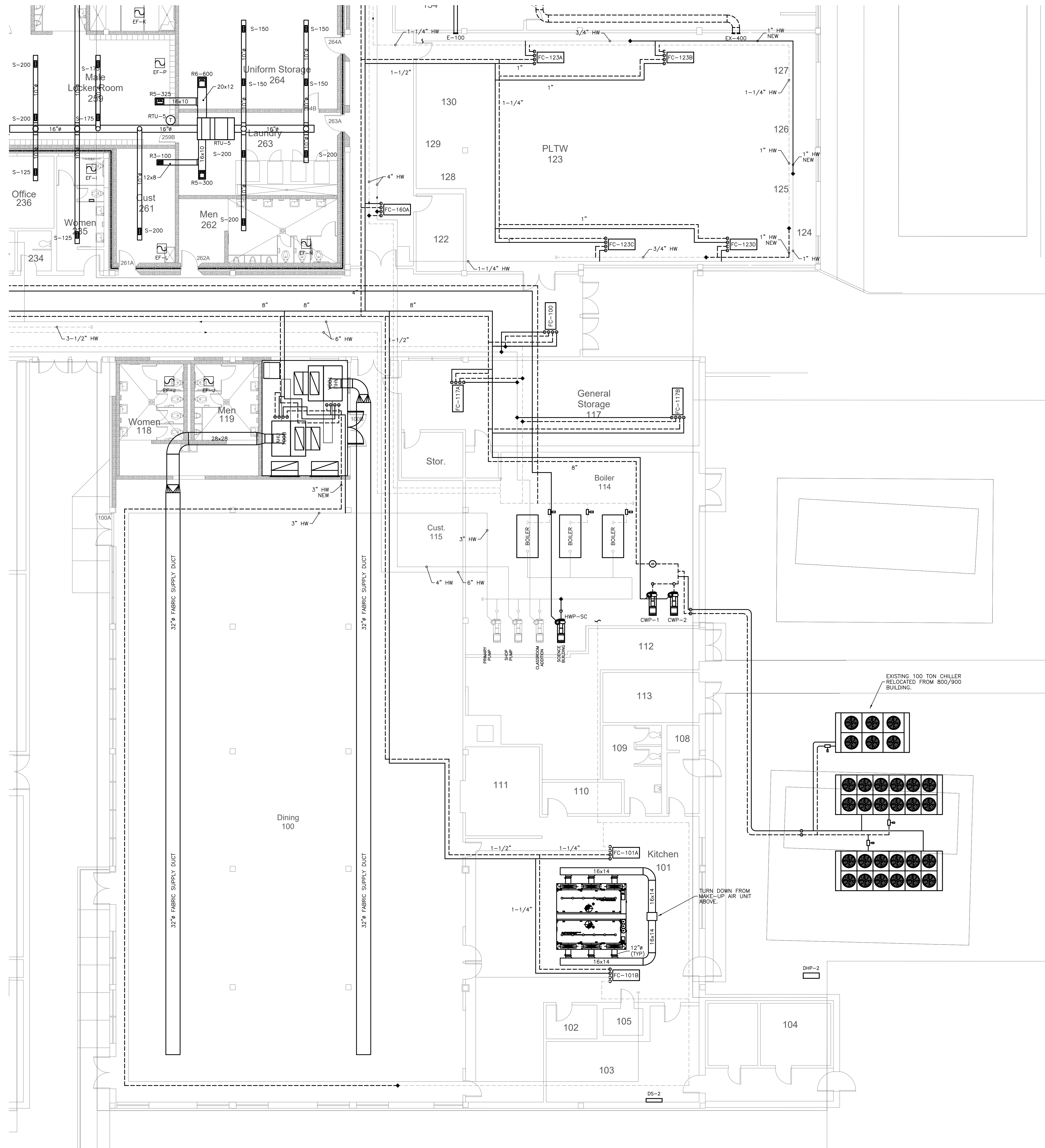
Hite associates
 ARCHITECTURE / PLANNING / TECHNOLOGY
 2600 Meridian Drive / Greenville, NC 27834 / Tel (252) 757-0333



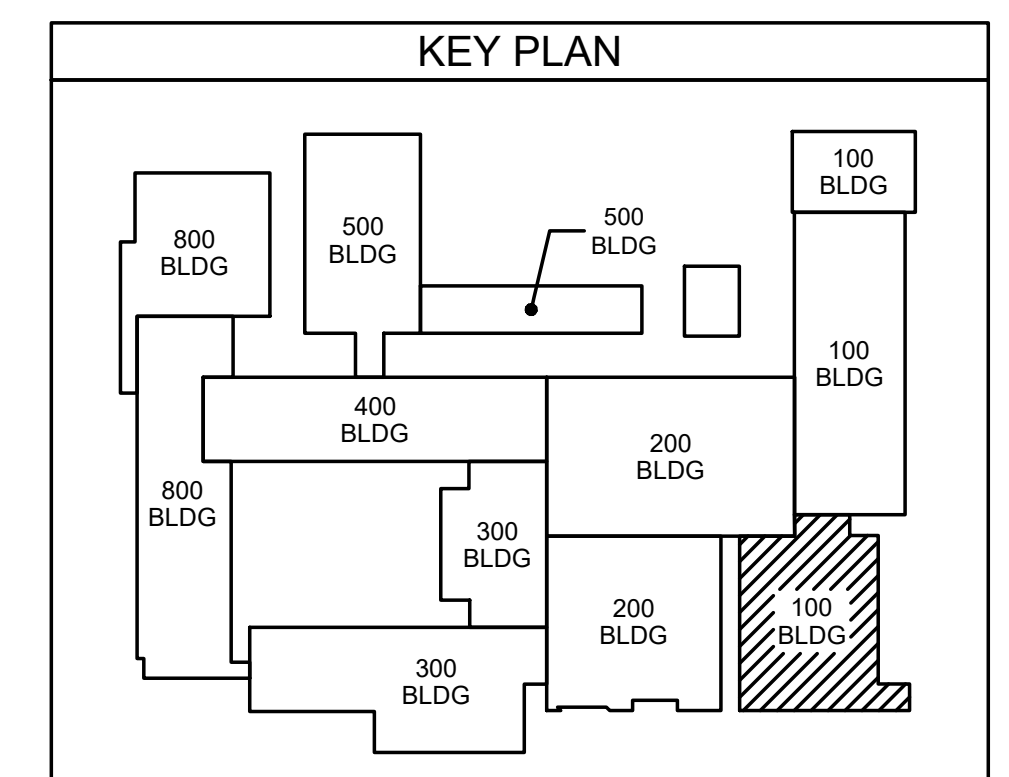
New Additions & Renovations to
West Carteret High School
 4700 Country Club Road, Morehead City, NC 28577
 Carteret County Schools / North Carolina

Project No. 22112
 Date: 03 Oct 2023
 Drawing No. **M 080**

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101.1 CAFETERIA AND KITCHEN MECHANICAL PLAN
 SCALE: 1/8" = 1'-0"



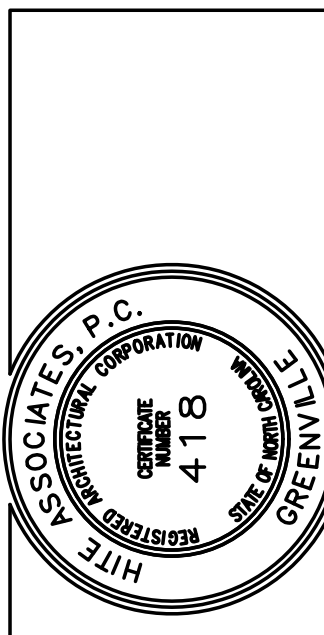
ES Project No. ES21060
ENGINEERING
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D. Wilson
 10/23/23
 WILSON FOU

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No.	Date	Revision

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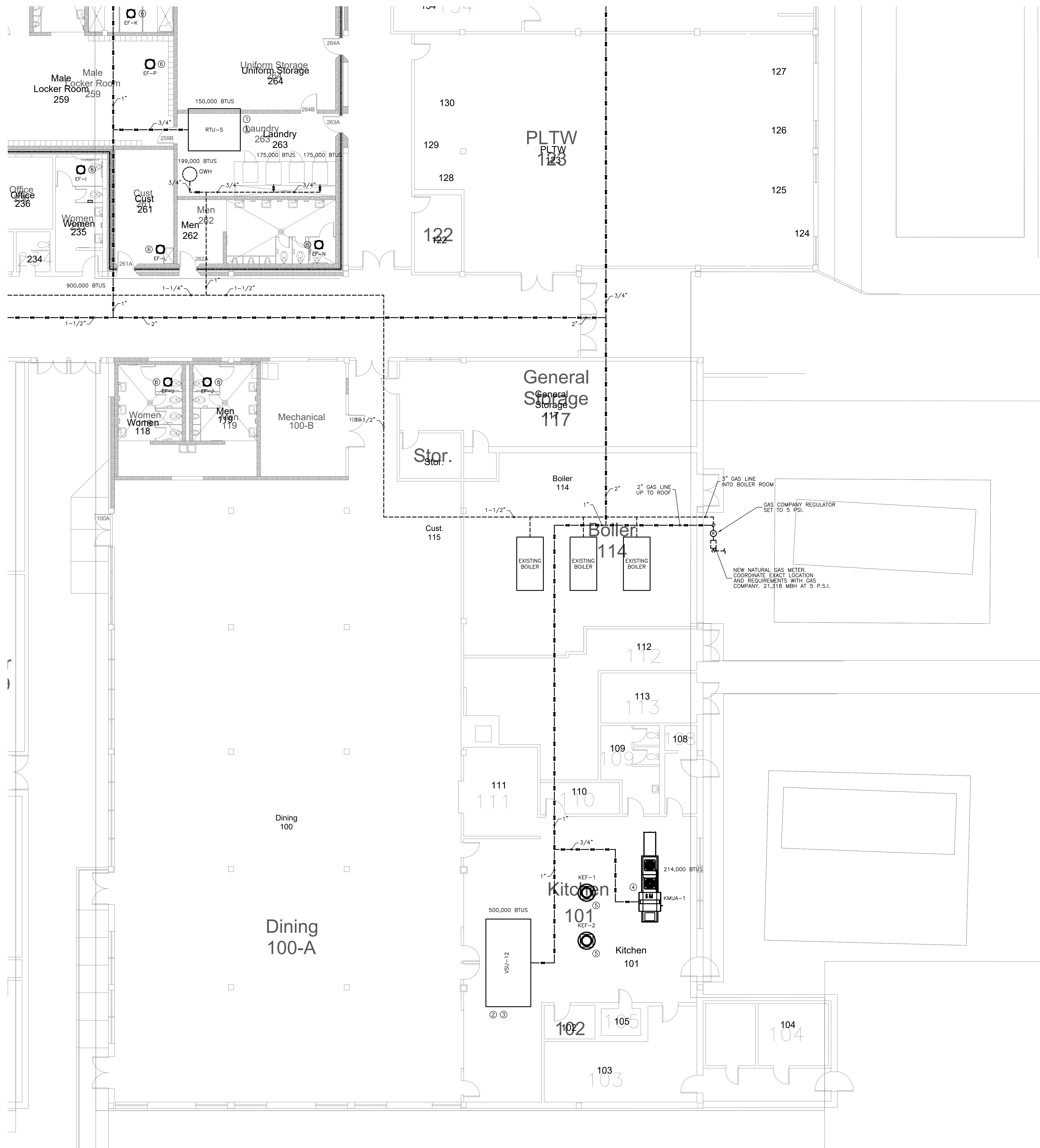


New Additions & Renovations to West Carteret High School
 4700 Country Club Road, Morehead City, NC 28577
 Carteret County Schools / North Carolina

Project No. 22112

Date: 03 Oct 2023

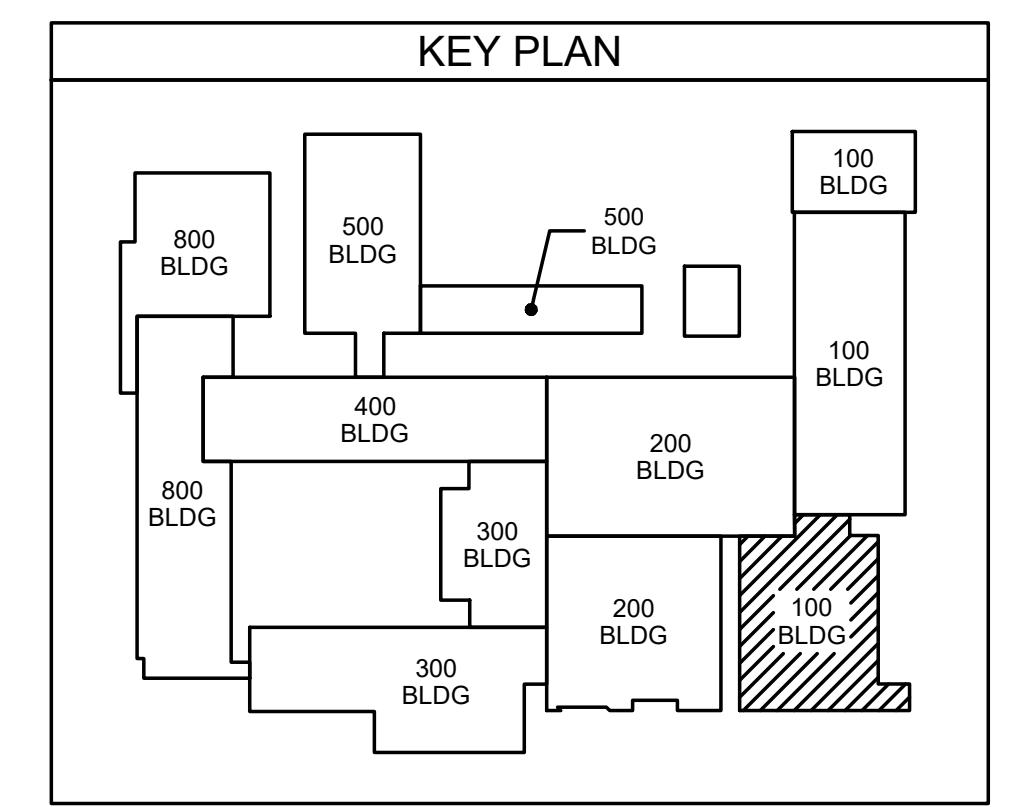
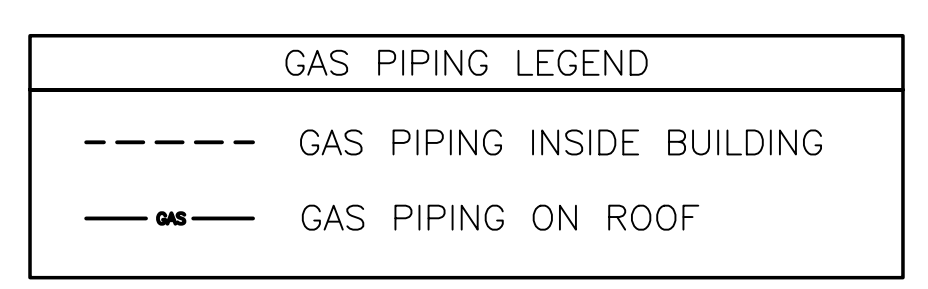
Drawing No. **M 101**



GAS SIZING CALCULATIONS

EQUIPMENT LIST	MBH	QUANTITY	TOTAL MBH
EXIST. BOILERS	5,000	3	15,000
EXIST. LAB BURNERS	10	40	400
RTU-1	600	1	600
RTU-2	600	1	600
RTU-3	100	1	100
RTU-4	150	1	150
RTU-5	150	1	150
VSU-1	300	1	300
VSU-2	350	1	350
VSU-3	150	1	150
VSU-4	150	1	150
VSU-5	200	1	200
VSU-6	150	1	150
VSU-7	250	1	250
VSU-8	250	1	250
VSU-12	500	1	500
VSU-13	150	1	150
KMAU-1	214	1	214
LAB BURNERS	10	44	440
FOOD LAB EQUIP	665	1	665
GAS DRYER	175	2	350
GWH	199	1	199
TOTAL CONNECTED =			21,318
LENGTH OF GAS LINE = 1,000 FT.			
TYPE OF GAS SERVICE = NATURAL GAS			
GAS PRESSURE = 5 PSI			
SIZE OF GAS SERVICE REQUIRED = 4"			

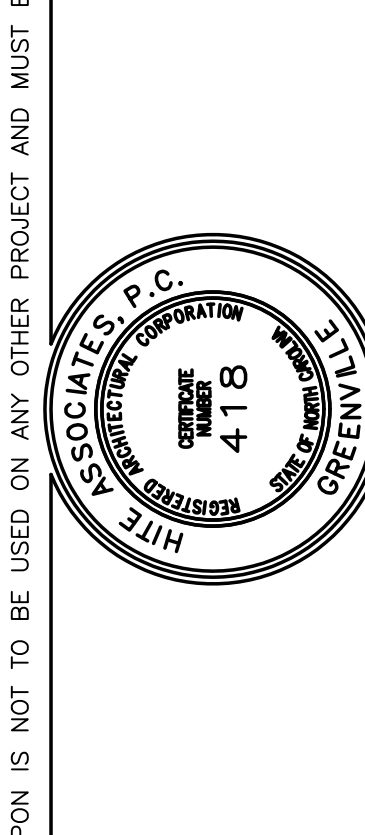
NOTE: ENGINEER SHALL BE NOTIFIED PRIOR TO INSTALLATION OF GAS PIPE IF ANY ONE OF THE ABOVE CALCULATIONS DIFFER FROM THE ACTUAL INSTALLATION REQUIREMENTS. ENGINEER SHALL HAVE OPPORTUNITY TO REVIEW ACTUAL INSTALLATION CONDITIONS AND RE-SIZE GAS SERVICE IF REQUIRED.



102.1 CAFETERIA AND KITCHEN GAS & ROOF PLAN
SCALE: 1/8" = 1'-0"

No.	Date	Revision

Hite associates
ARCHITECTURE / PLANNING / TECHNOLOGY
2600 Meridian Drive / Greenville, NC 27834 / Tel (252) 757-0333



**New Additions & Renovations to
West Carteret High School**
4700 Country Club Road, Morehead City, NC 28577
Carteret County Schools / North Carolina

Project No. 22112

Date: 03 Oct 2023

Drawing No. **M 102**

ES Project No. ES21060

ENGINEERING
SOURCE OF NC, PA.

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D. Hite
Professional Engineer
10/23/23
NORTH CAROLINA
LICENSE NO. 418
HITE ASSOCIATES, P.C.

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FOR QUESTIONS, CALL THE
Eastern North Carolina
REGION 36
PHONE: (919) 825 - 3566
EMAIL: reg36@captivair.com

PATENT NUMBERS
AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION - JOB#6210257

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST FLENUM RISER(S)					TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA	CFM			VEL	SP	END TO END
1	FRONT	5424 ND-2-PSP-F	CAPTIVEAIRE	12' 0"	600 DEG	I	HEAVY	200	2400		4"	16"	2400	1719	-0.797"	1920	430 SS WHERE EXPOSED	ALONE	FRONT
2	BACK	5424 ND-2-PSP-F	CAPTIVEAIRE	12' 0"	600 DEG	I	HEAVY	200	2400		4"	16"	2400	1719	-0.797"	1920	430 SS WHERE EXPOSED	ALONE	BACK

HOOD INFORMATION

HOOD NO	TAG	TYPE	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT		
			QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM	SIZE	ELECTRICAL			SWITCHES	
1	FRONT	CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	6	L55 SERIES E26	NO	RIGHT	12"x54"x24"	TANK FS	4.0/4.0/4.0			1 LIGHT 1 FAN	YES	1115 LBS
2	BACK	CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	6	L55 SERIES E26	NO	LEFT	12"x54"x24"			SC-321110MA			YES	909 LBS

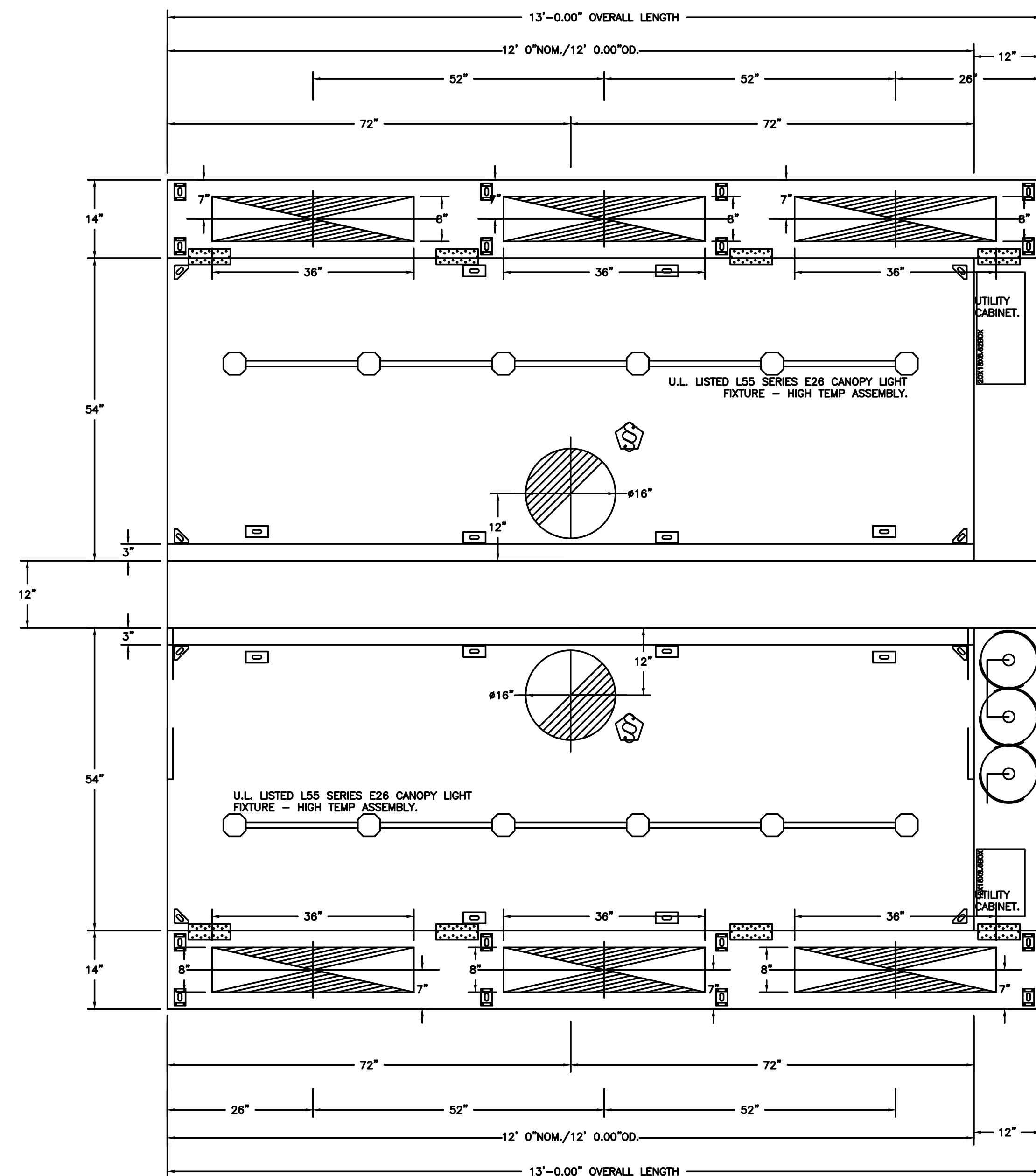
HOOD OPTIONS

HOOD NO	TAG	OPTION
1	FRONT	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
2	BACK	BACK STANDOFF (FLAT) 12" WIDE 156" LONG.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	
1	FRONT	Front	156"	14"	6"	MUA	8"	36"		640	0.183"
							8"	36"		640	0.183"
							8"	36"		640	0.183"
							8"	36"		640	0.183"
2	BACK	Front	156"	14"	6"	MUA	8"	36"		640	0.183"
							8"	36"		640	0.183"
							8"	36"		640	0.183"
							8"	36"		640	0.183"

NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.
PLAN VIEW - HOOD #2 (BACK)
12' 0.00" LONG 5424ND-2-PSP-F

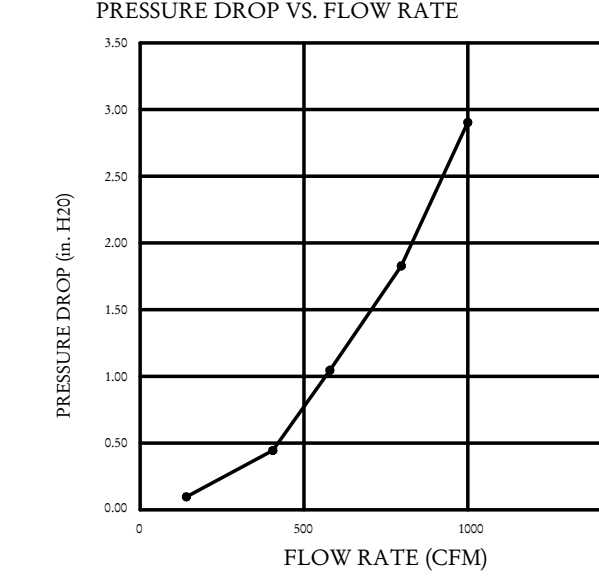
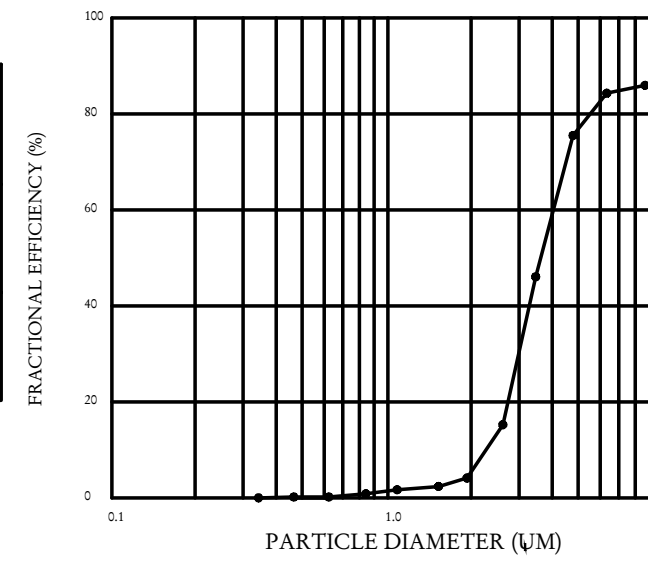


NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.
PLAN VIEW - HOOD #1 (FRONT)
12' 0.00" LONG 5424ND-2-PSP-F

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

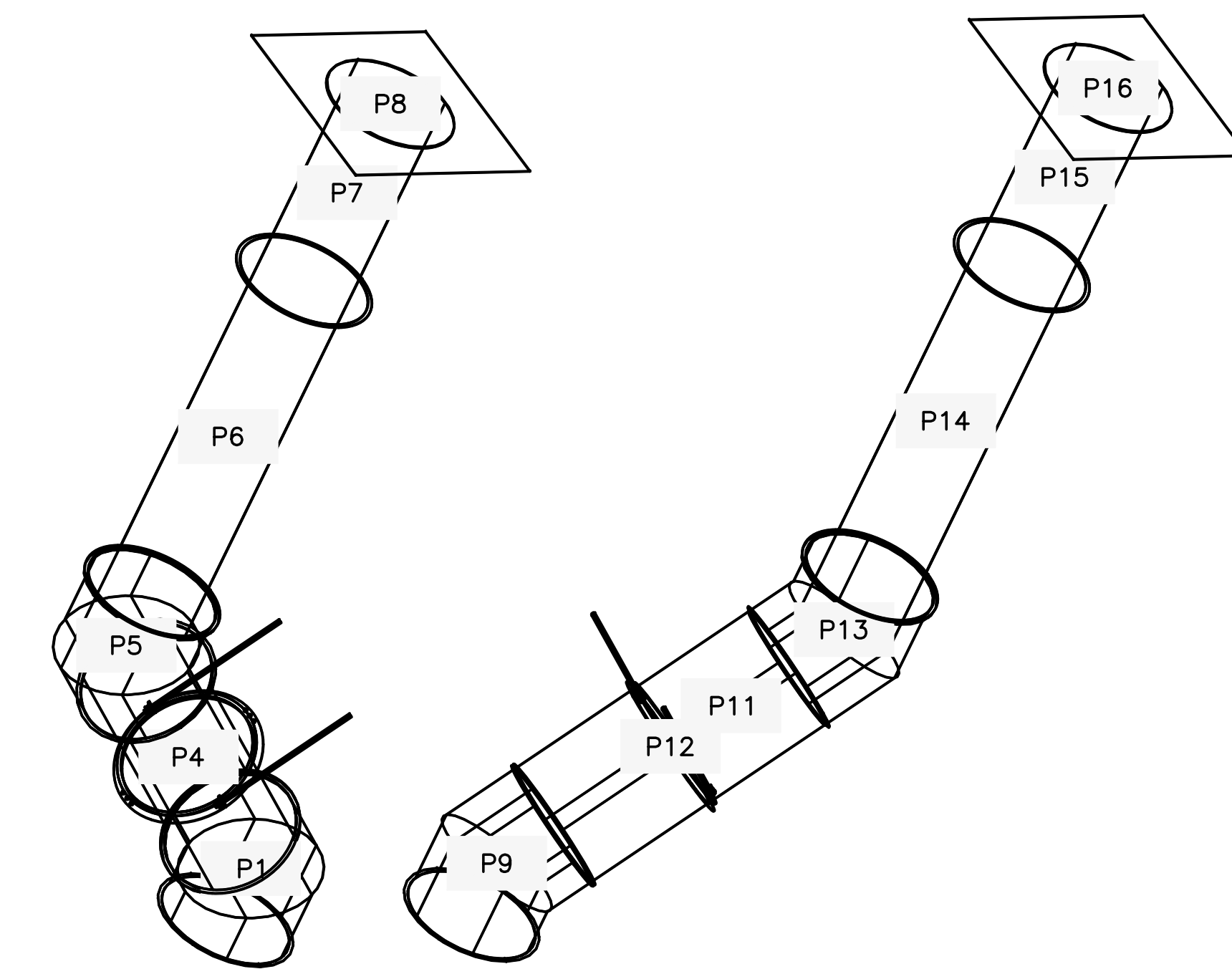
UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.
THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.
EFFICIENCY VS. PARTICLE DIAMETER



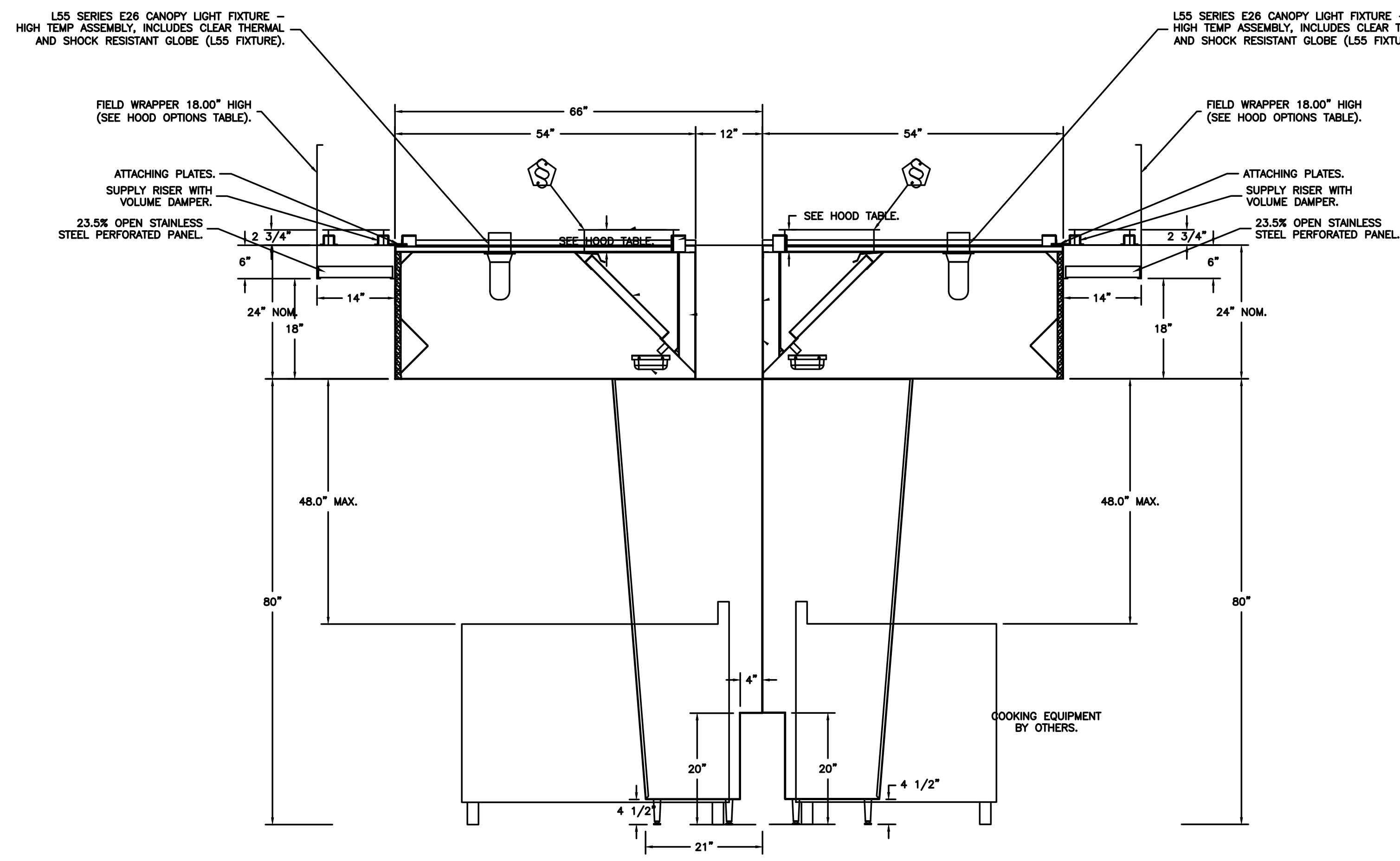
CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (M.C.)
ULC-5649.



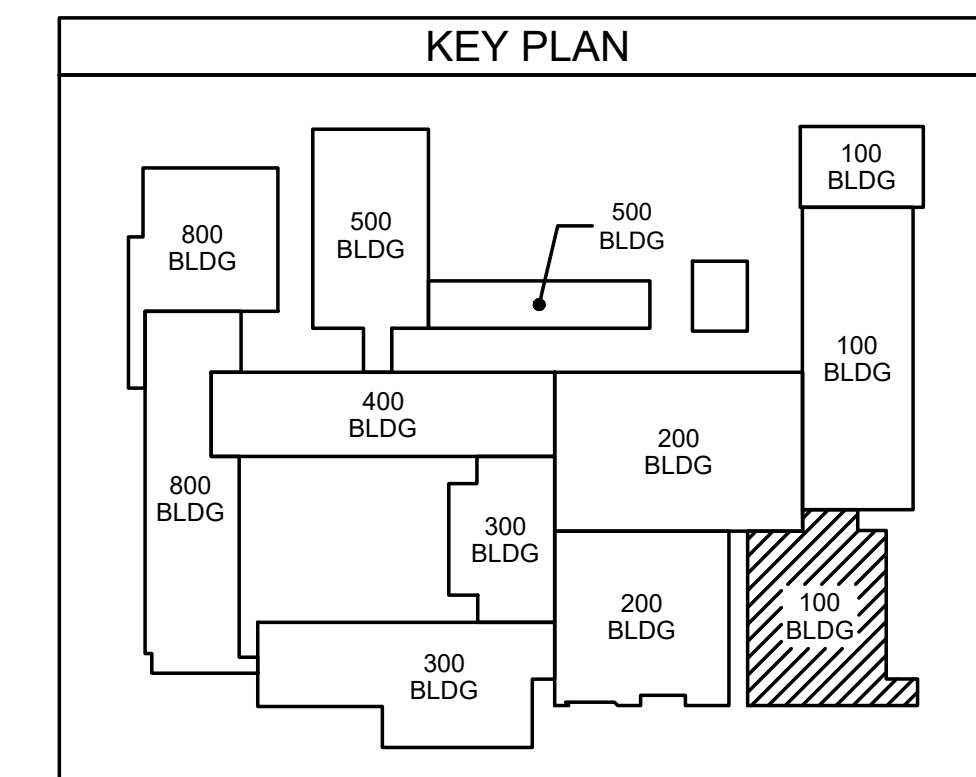
DUCTWORK #1 SE VIEW



NOTE: ALL INFORMATION AND DETAILS ON THIS SHEET WERE TAKEN FROM DRAWINGS PROVIDED BY CAPTIVE AIR.



SECTION VIEW - MODEL 5424ND-2-PSP-F
HOOD - #1 (FRONT)



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ENGINEERING
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D. Wilson
10/23/23
HITE ASSOCIATES, P.C.
REGISTERED PROFESSIONAL ENGINEER
NUMBER 418
GREENVILLE, NC

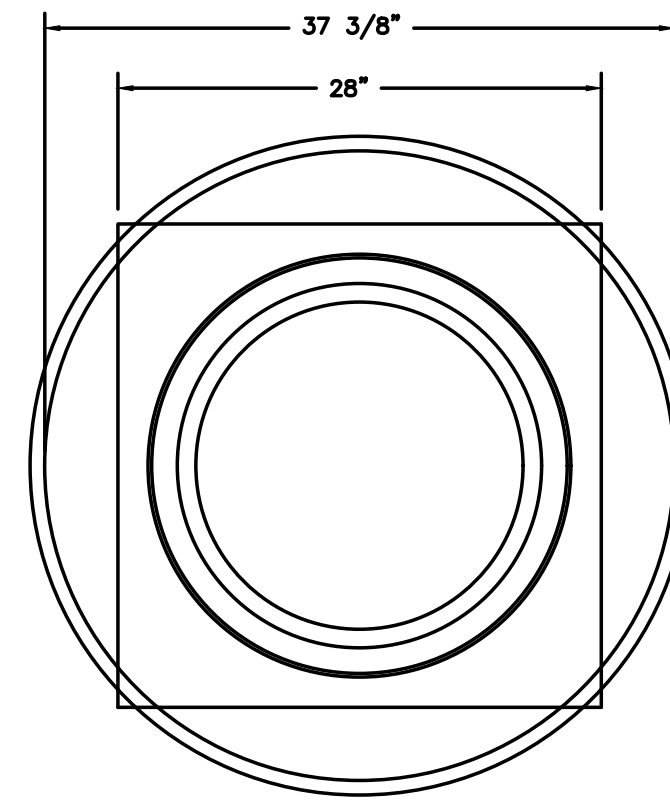
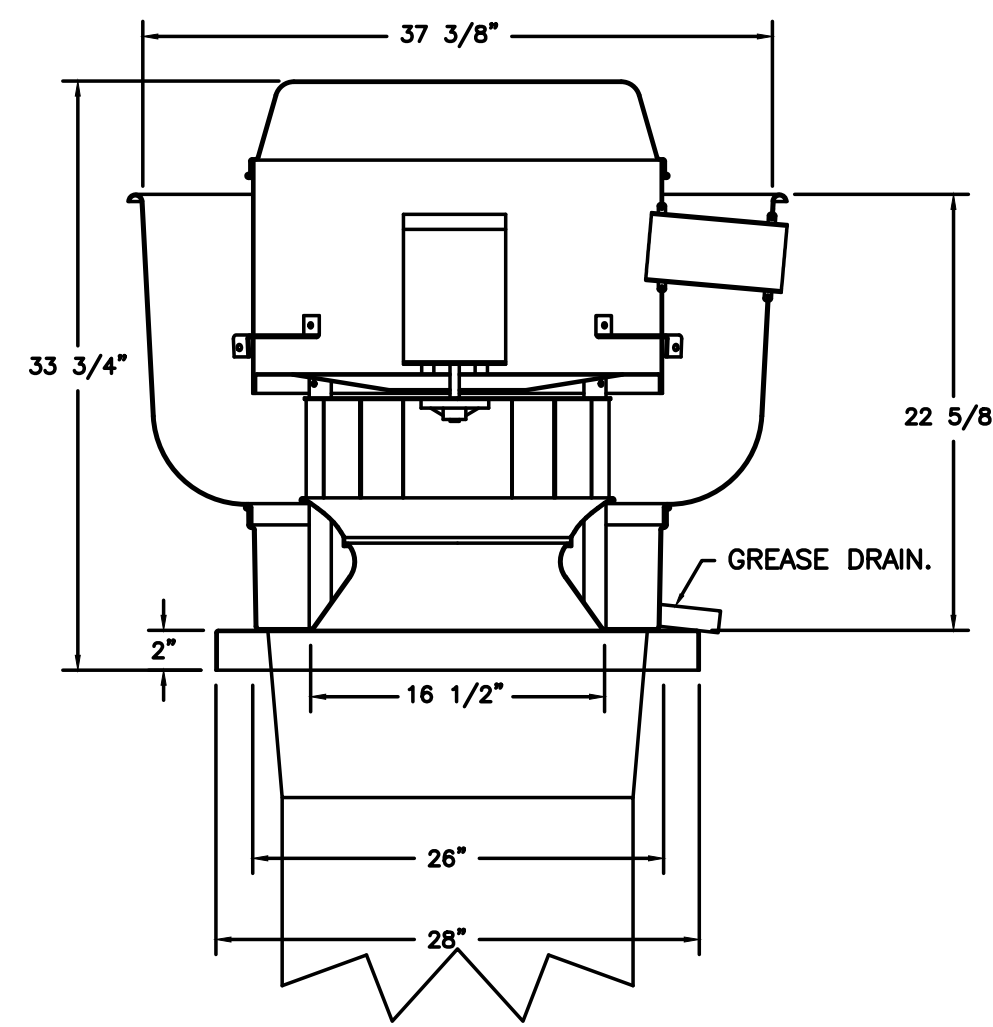
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HITE ASSOCIATES, P.C.
REGISTERED PROFESSIONAL ENGINEER
NUMBER 418
GREENVILLE, NC

New Additions & Renovations to
West Carteret High School
4700 Country Club Road, Morehead City, NC 28577
Carteret County Schools / North Carolina

Project No: 22112
Date: 03 Oct 2023
Drawing No: M 103

FANS #1 (KEF-1), #2 (KEF-2) - DU180HFA EXHAUST FAN



TOP VIEW

FEATURES:

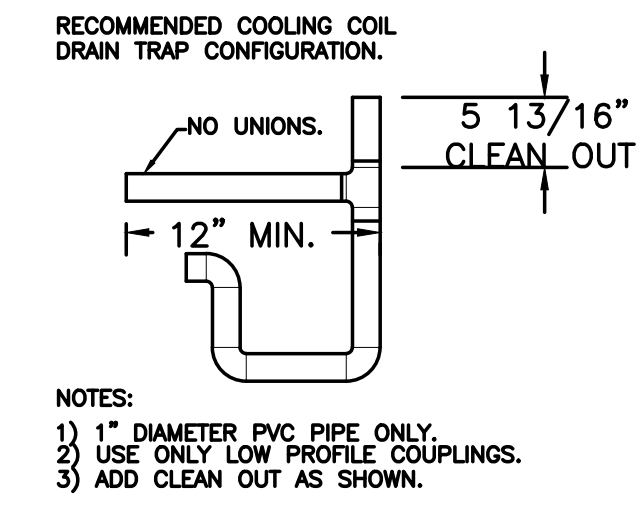
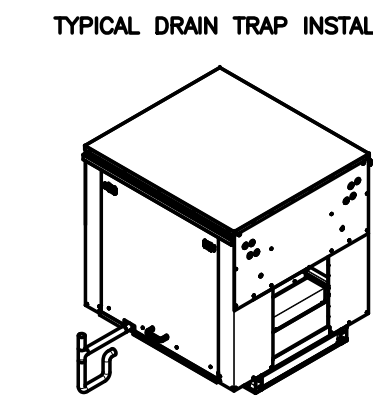
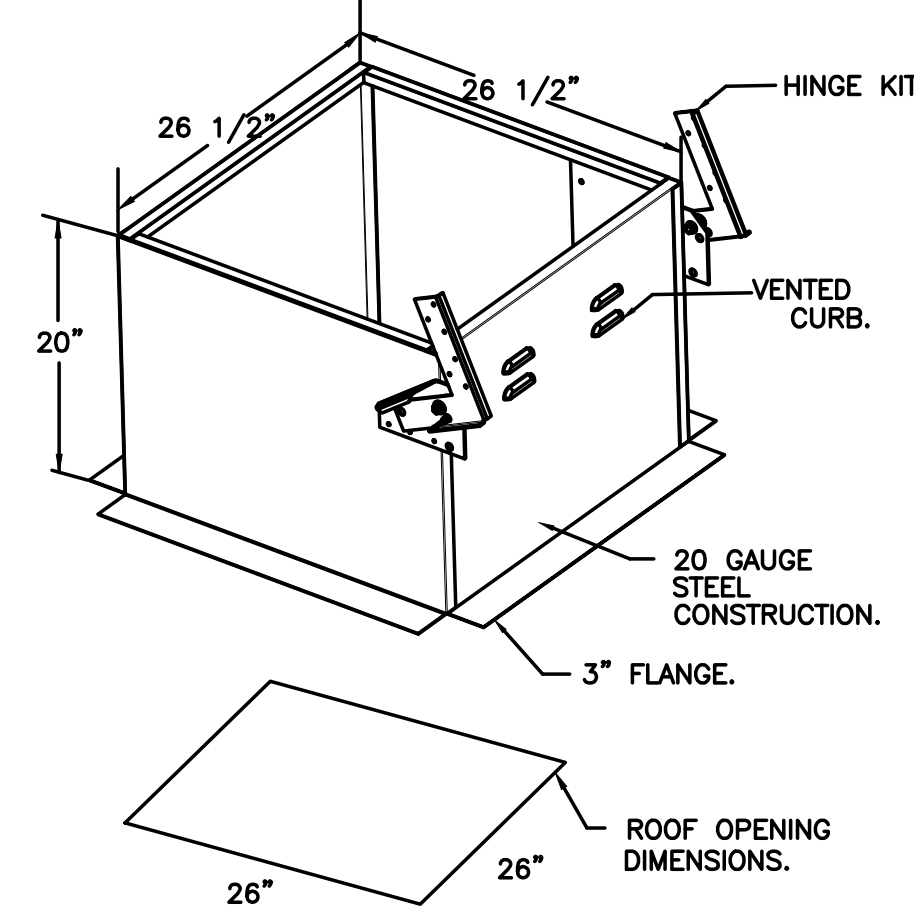
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300F (149C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300F (149C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETRIMENTAL EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600F (316C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- MIAMI DADE CERTIFICATION - NOA-1 ALUMINUM UPLAST.
- 2 YEAR PARTS WARRANTY.

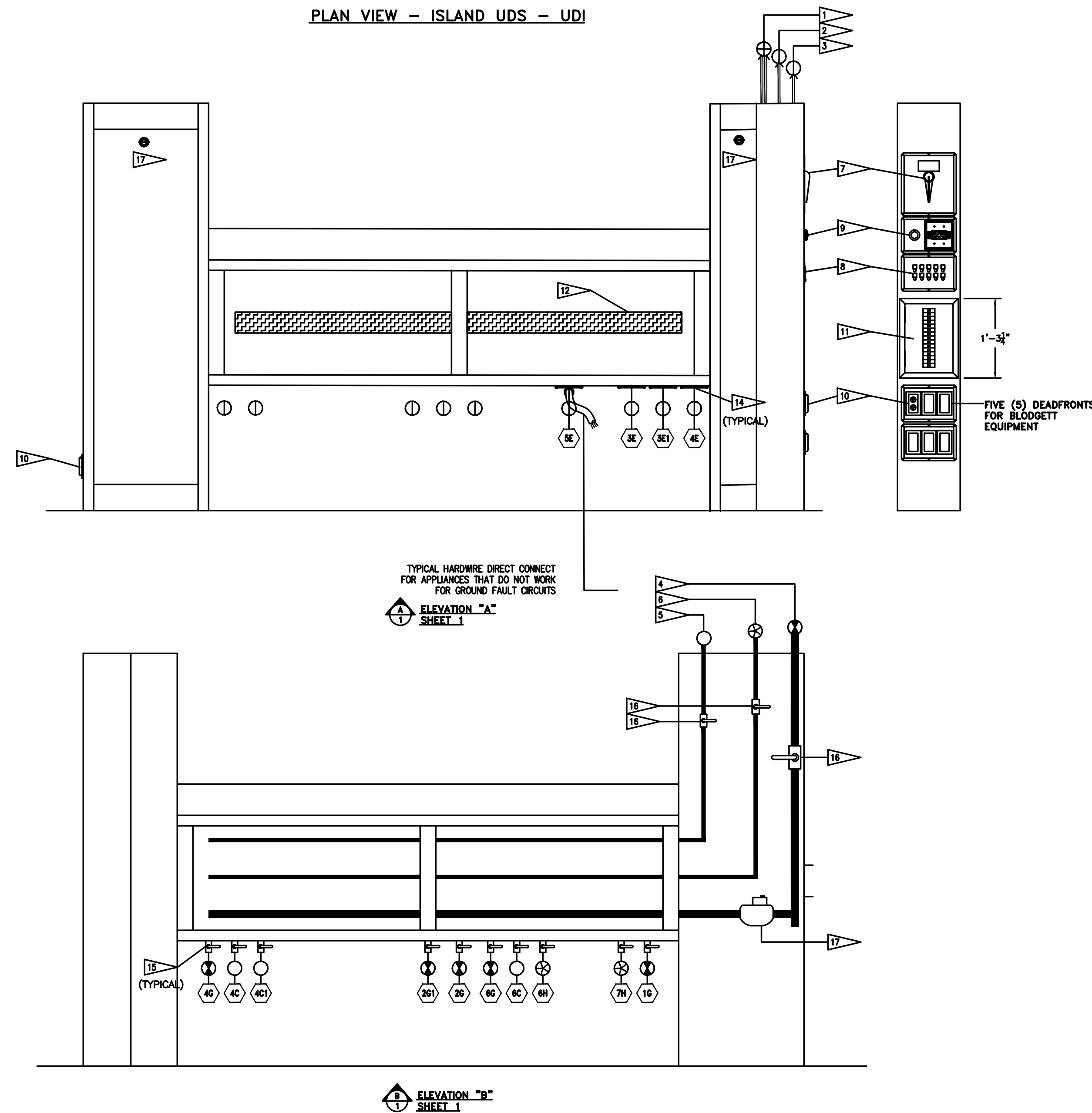


- NOTES:**
- 1) 1\"/>

NOTE: ALL INFORMATION AND DETAILS ON THIS SHEET WERE TAKEN FROM DRAWINGS PROVIDED BY CAPTIVE AIRE.

60% : UDS DETAIL- UTILITY DISTRIBUTION SYSTEM - *WAITING ON FINAL DETAILS.

PLAN VIEW - ISLAND UDS - UDI



SYMBOL SCHEDULE	
○	COLD WATER
⊕	HOT WATER
⊕	NATURAL GAS
⊕	PROPANE
⊕	120 VAC 1 PHASE
⊕	208 VAC 1 PHASE
⊕	208 VAC 3 PHASE
⊕	480 VAC 3 PHASE
⊕	STEAM SUPPLY
⊕	STEAM CONDENSATE RETURN

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

NSF
UL LISTED

NFPA #96
NSF
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001

NFPA
NFI

NSF

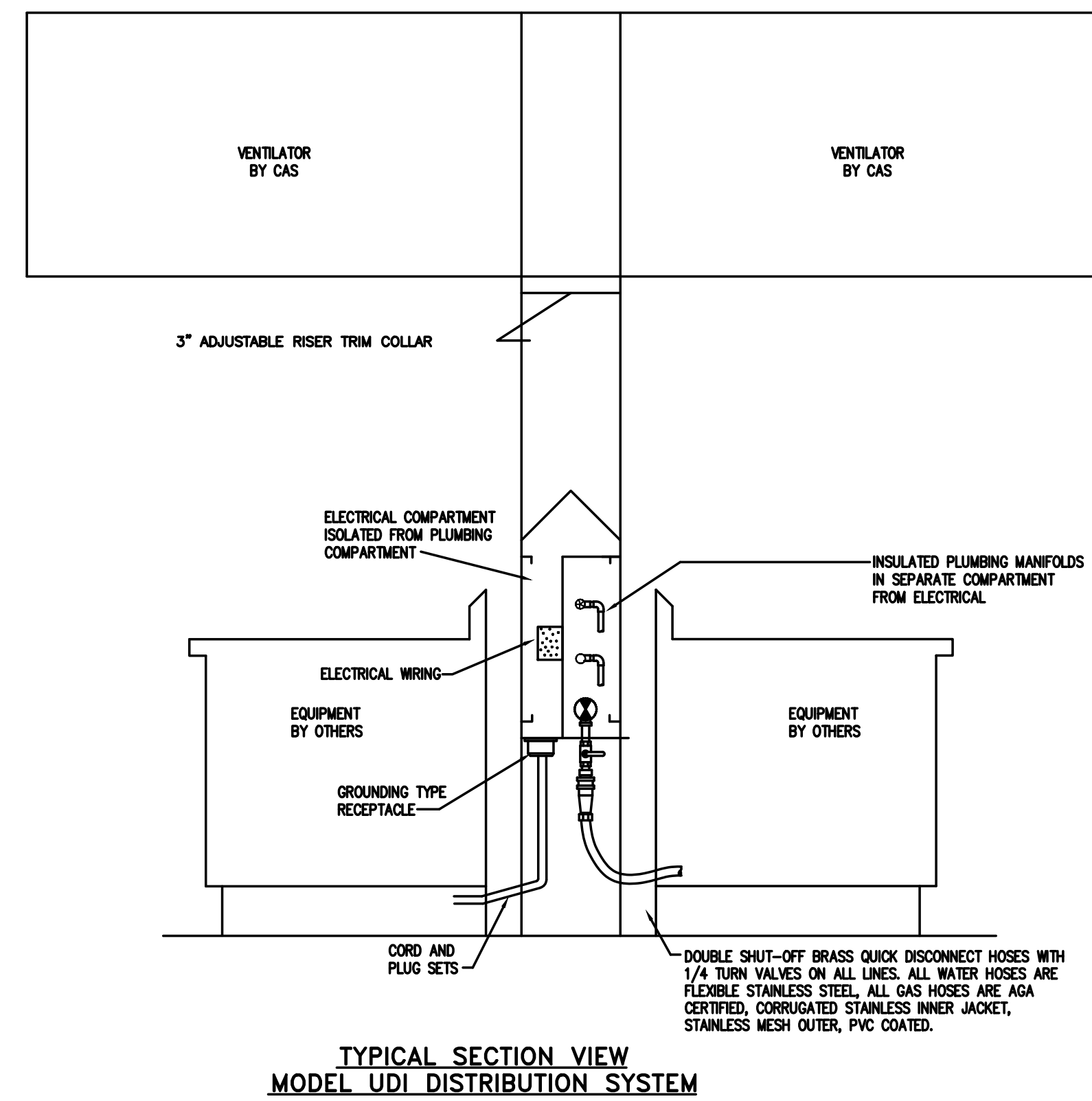
UDS CONSTRUCTION TO BE 16 GA., TYPE 304 STAINLESS STEEL

UTILITY DISTRIBUTION SYSTEM MODEL UDI IS LISTED UNDER ETL FILE NUMBER 3054803 CONFORMS TO UL STD 891 CERTIFIED TO CAN/CSA C22.2 No. 31-M89

PRIOR TO SCHEDULING UDS FOR PRODUCTION PLEASE PROVIDE APPROVED SUBMITTAL CUTSHEETS ON FINAL KITCHEN EQUIPMENT ASSOCIATED WITH THE UDS (NEW & USED) SO THAT CONNECTION SIZES, TYPES AND LOCATIONS CAN BE VERIFIED

ANY CHANGES TO SUBMITTAL DRAWING MAY AFFECT PRICE AND PRODUCTION TIME PLEASE FORWARD CHANGES ASAP

-----NOTE-----
NEC REQUIRES 36" OF FIELD CLEARANCE IN FRONT OF CIRCUIT BREAKERS FOR ACCESS



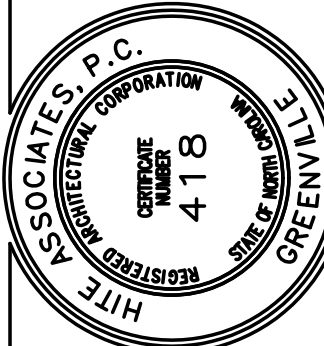
TYPICAL SECTION VIEW MODEL UDI DISTRIBUTION SYSTEM

ES Project No: ES21080

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D. Wilson
10/23/23



New Additions & Renovations to
West Carteret High School
4700 Country Club Road, Morehead City NC 28577
Carteret County Schools / North Carolina

Project No: 22112
Date: 03 Oct 2023
Drawing No: **M 106**

No.	Date	Revision

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DUCTWORK #1 PARTS - JOB#6210257

TAG	PART #	CFM	GPM	ZONE	COVEREDBY	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1645ASY	2400				-0.049	7.22	1718.87	1	SINGLE WALL DUCT 45 DEGREE ELBOW, 16" DUCT, ASSEMBLY.
P2	DW1617LT	2400				-0.0068	9.24	1718.87	1	SINGLE WALL DUCT 16" DIAMETER, 17" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P3	DW1624AJDKIT	2400				-0.0062	16.63	1718.87	1	SINGLE WALL DUCT ADJUSTABLE, 16" DIAMETER, 23.5" LONG, FLANGE AT ONE END WITH A 16" ADJUSTABLE COLLAR - STAINLESS STEEL.
P4	DW16SUBBRASY						3.18		1	DUCT SUPPORT BRACKET KIT, 16" DUCT, USED FOR HANGING DUCT. 12 GA STEEL, CLEAR ZINC COATING. - 2 RINGS, 4 BRACKETS, & HARDWARE BAG 2.
P5	DW1645ASY	2400				-0.056	7.22	1718.87	1	SINGLE WALL DUCT 45 DEGREE ELBOW, 16" DUCT, ASSEMBLY.
P6	DW1647LT	2400				-0.018	24.89	1718.87	1	SINGLE WALL DUCT 16" DIAMETER, 47" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P7	DW1648AJDKIT	2400				-0.01	30.39	1718.87	1	SINGLE WALL DUCT ADJUSTABLE, 16" DIAMETER, 47.5" LONG, FLANGE AT ONE END WITH A 16" ADJUSTABLE COLLAR - STAINLESS STEEL.
P8	DW2316TP	2400					8.03	1718.87	1	DUCT TO CURB TRANSITION, 23" CURB TO 16" DUCT, 16 GA ALUMINIZED. USED ON BDU15, DU75 & 85.
SYSTEM AT P8							-0.9425	0.00		
P9	DW1645ASY	2400				-0.049	7.22	1718.87	1	SINGLE WALL DUCT 45 DEGREE ELBOW, 16" DUCT, ASSEMBLY.
P10	DW1617LT	2400				-0.0068	9.24	1718.87	1	SINGLE WALL DUCT 16" DIAMETER, 17" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P11	DW1624AJDKIT	2400				-0.0062	16.63	1718.87	1	SINGLE WALL DUCT ADJUSTABLE, 16" DIAMETER, 23.5" LONG, FLANGE AT ONE END WITH A 16" ADJUSTABLE COLLAR - STAINLESS STEEL.
P12	DW16SUBBRASY						3.18		1	DUCT SUPPORT BRACKET KIT, 16" DUCT, USED FOR HANGING DUCT. 12 GA STEEL, CLEAR ZINC COATING. - 2 RINGS, 4 BRACKETS, & HARDWARE BAG 2.
P13	DW1645ASY	2400				-0.056	7.22	1718.87	1	SINGLE WALL DUCT 45 DEGREE ELBOW, 16" DUCT, ASSEMBLY.
P14	DW1647LT	2400				-0.018	24.89	1718.87	1	SINGLE WALL DUCT 16" DIAMETER, 47" LONG, FLANGE AT BOTH ENDS. STAINLESS STEEL.
P15	DW1648AJDKIT	2400				-0.01	30.39	1718.87	1	SINGLE WALL DUCT ADJUSTABLE, 16" DIAMETER, 47.5" LONG, FLANGE AT ONE END WITH A 16" ADJUSTABLE COLLAR - STAINLESS STEEL.
P16	DW2316TP	2400					8.03	1718.87	1	DUCT TO CURB TRANSITION, 23" CURB TO 16" DUCT, 16 GA ALUMINIZED. USED ON BDU15, DU75 & 85.
SYSTEM AT P16							-0.9425	0.00		
3M-2000PLUS							0.80		4	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
DW16CLASY							1.18		12	DUCT "V" CLAMP WITH NEW DESIGN 14 GA BRACKETS, 16" DUCT, ASSEMBLY.
TOTAL WEIGHT							230.96			

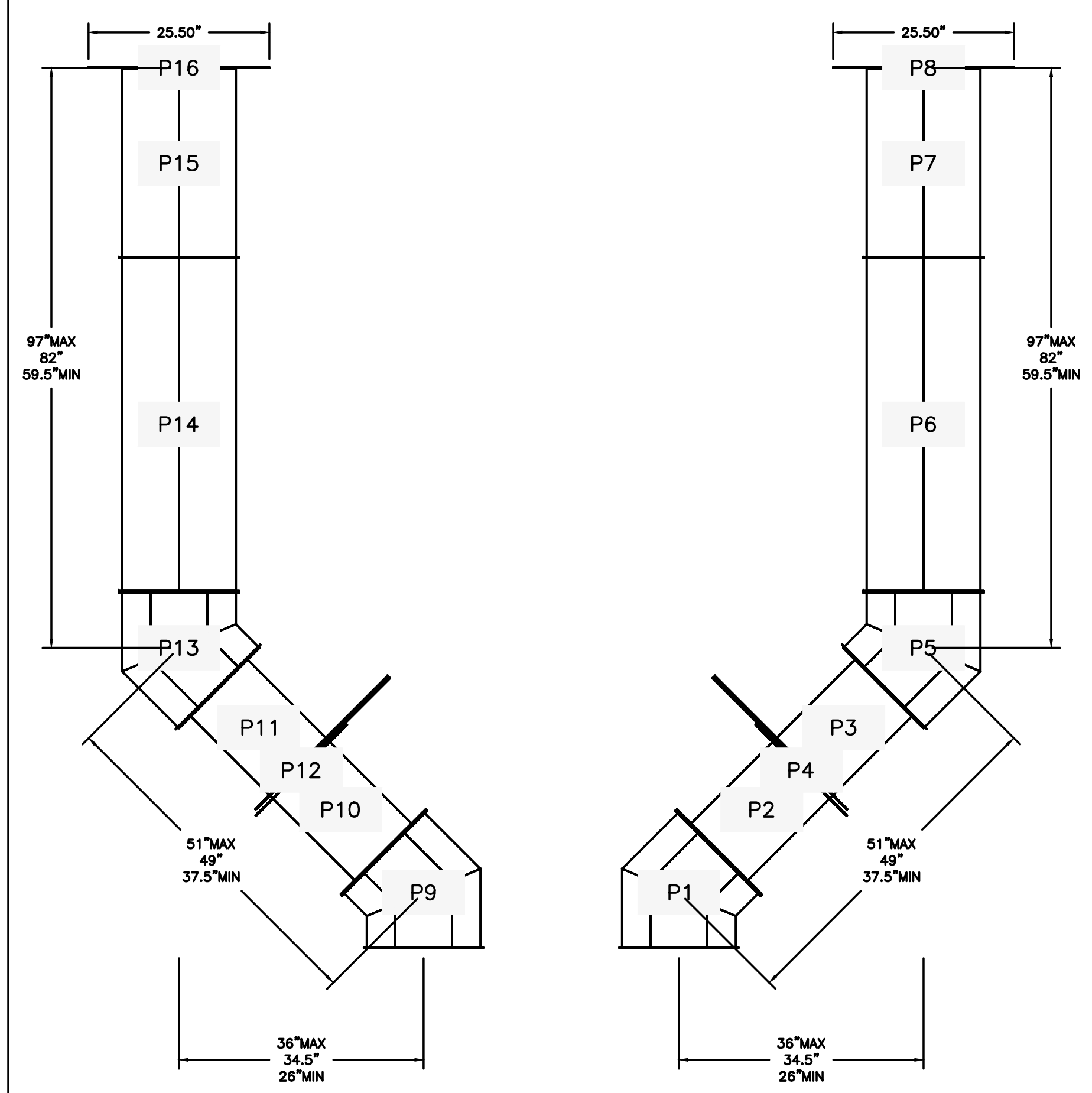
SINGLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

DUCT DIAMETER	HORIZONTAL SUPPORT (FT)	VERTICAL WALL SUPPORT (FT)	VERTICAL CURB SUPPORT (FT)
5"	10'	10'	24'
6"	10'	10'	24'
7"	10'	10'	24'
8"	10'	10'	24'
10"	10'	10'	24'
12"	10'	10'	24'
14"	10'	10'	24'
16"	10'	10'	24'
18"	10'	10'	24'
20"	10'	10'	24'
22"	10'	10'	24'
24"	10'	10'	24'
26"	10'	10'	24'
28"	10'	10'	24'
30"	10'	10'	24'
32"	10'	10'	24'
34"	10'	10'	24'
36"	10'	10'	24'

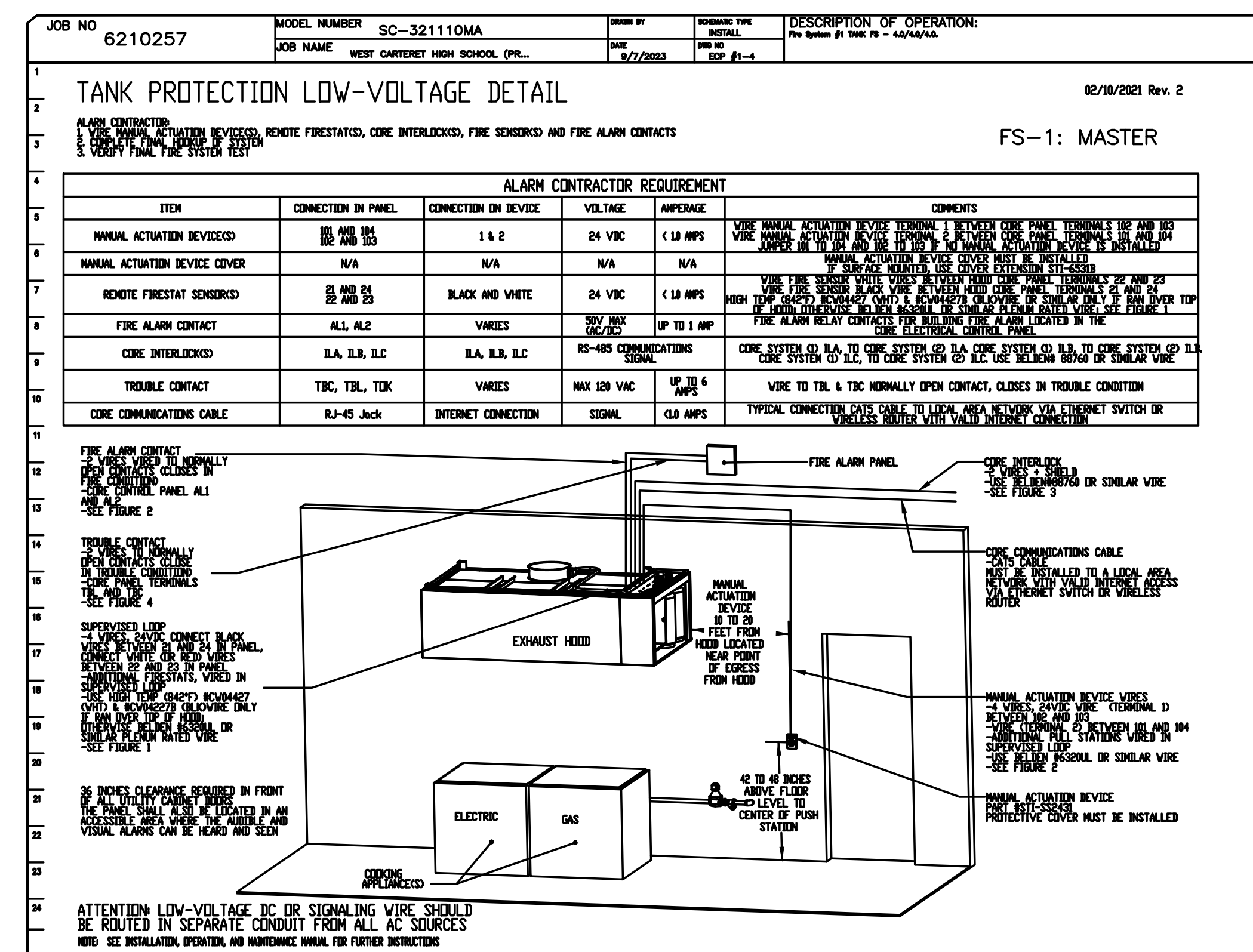
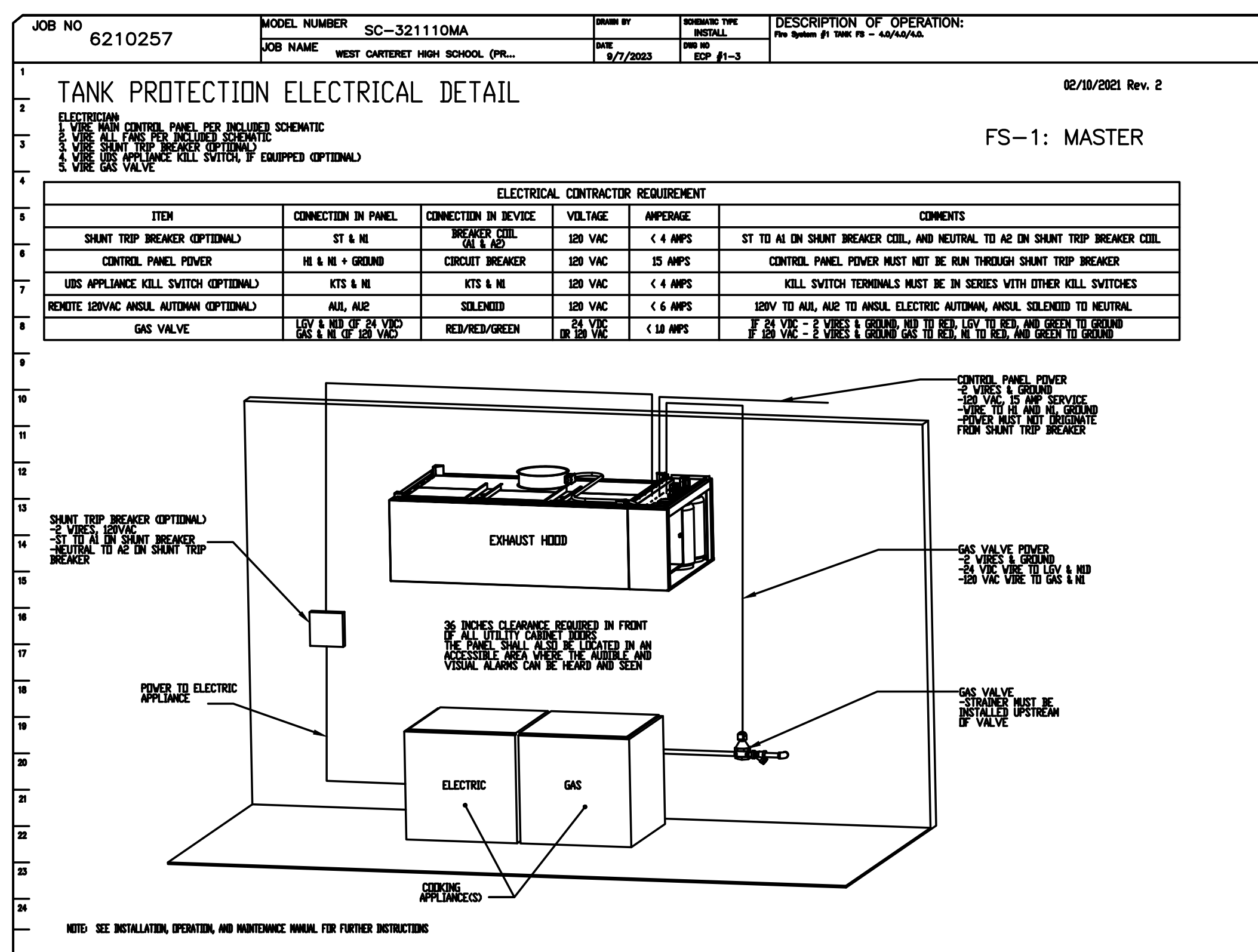
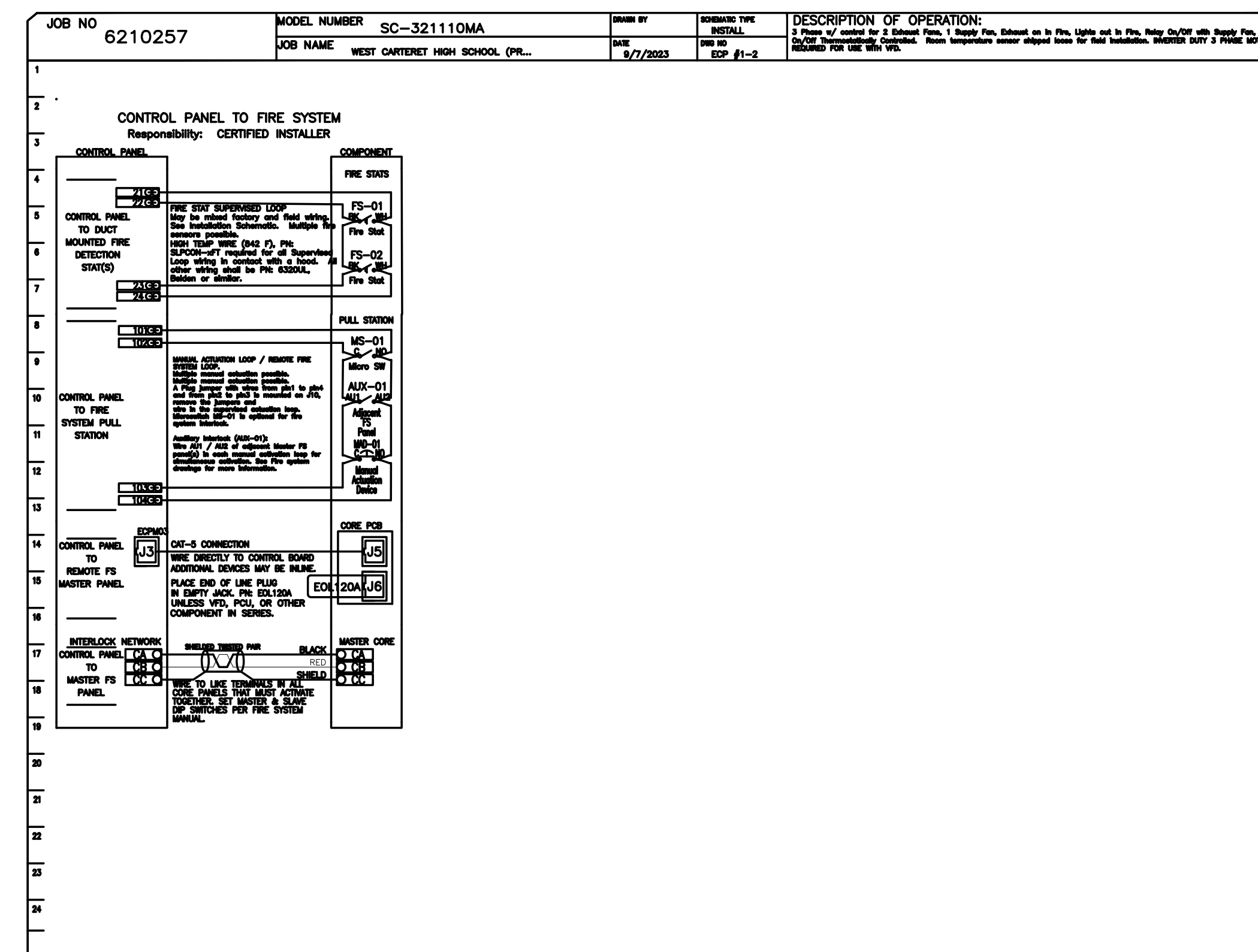
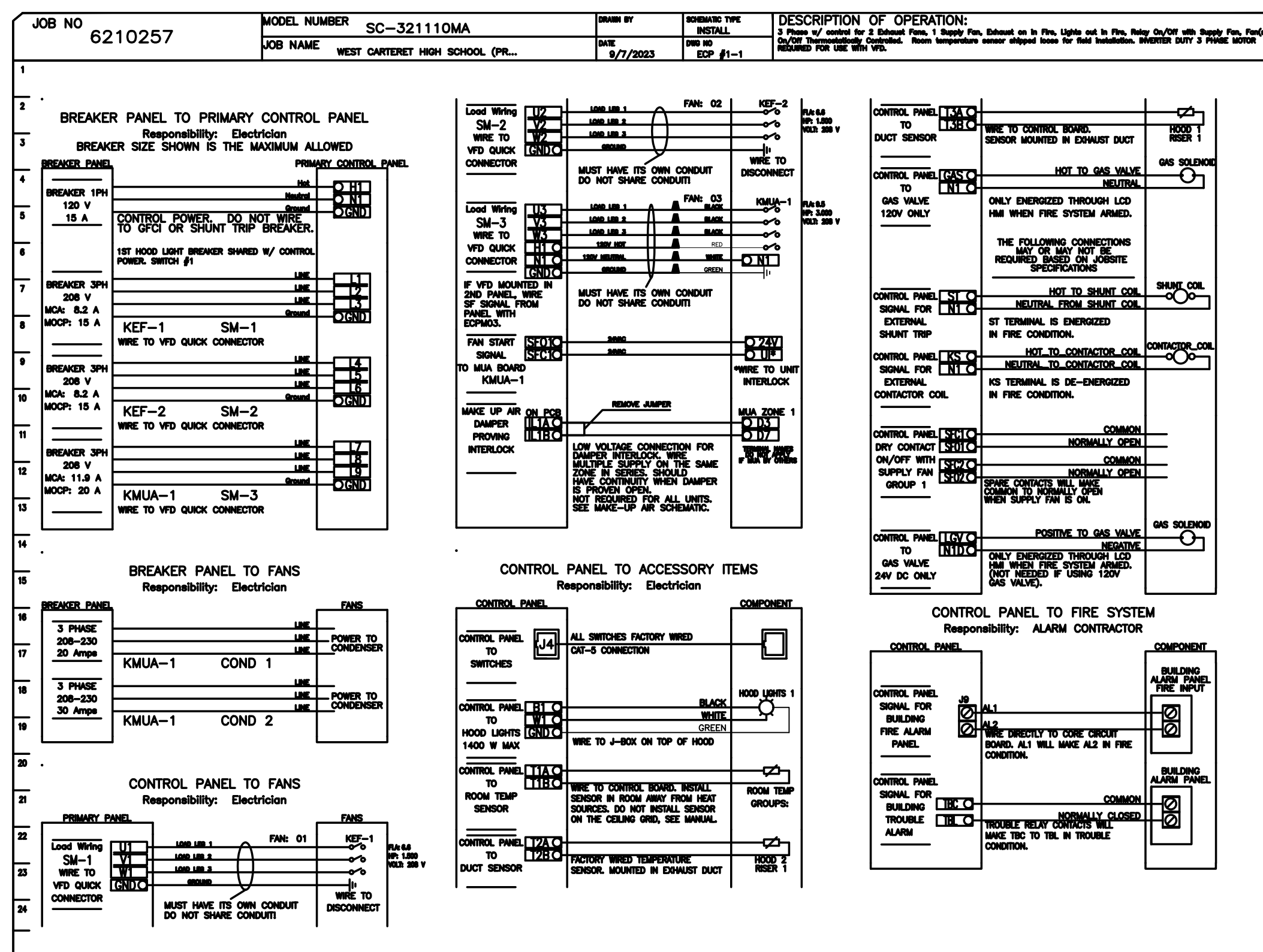
DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.

DUCTWORK #1 SIDE VIEW



ELECTRICAL PACKAGE - JOB#6210257

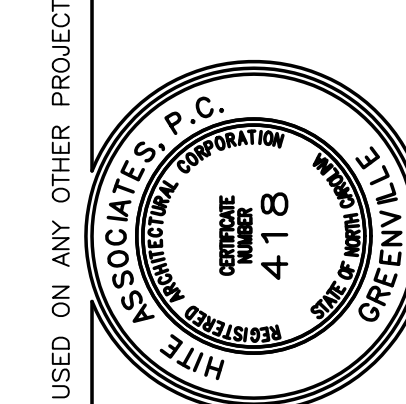
NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	#	HP	VOLT	FLA
1		SC-321110MA	UTILITY CABINET LEFT	UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	KEP-1	EXHAUST	3	1.500	208	6.6
				HOOD # 2	1 FAN		KMAA-1	SUPPLY	3	3.000	208	9.5



NOTE: ALL INFORMATION AND DETAILS ON THIS SHEET WERE TAKEN FROM DRAWINGS PROVIDED BY CAPTIVE AIRE.

Rev	Date	Description

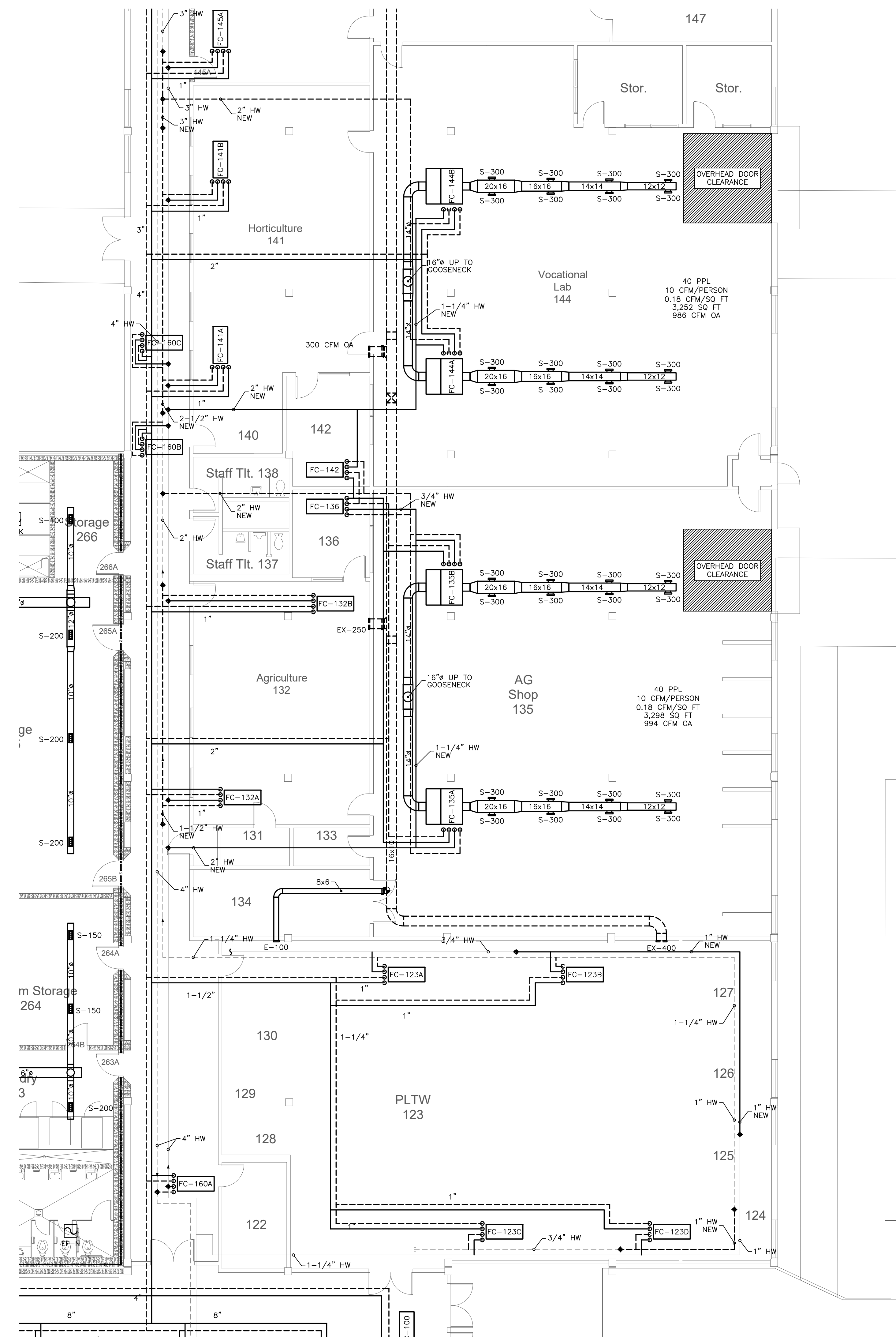
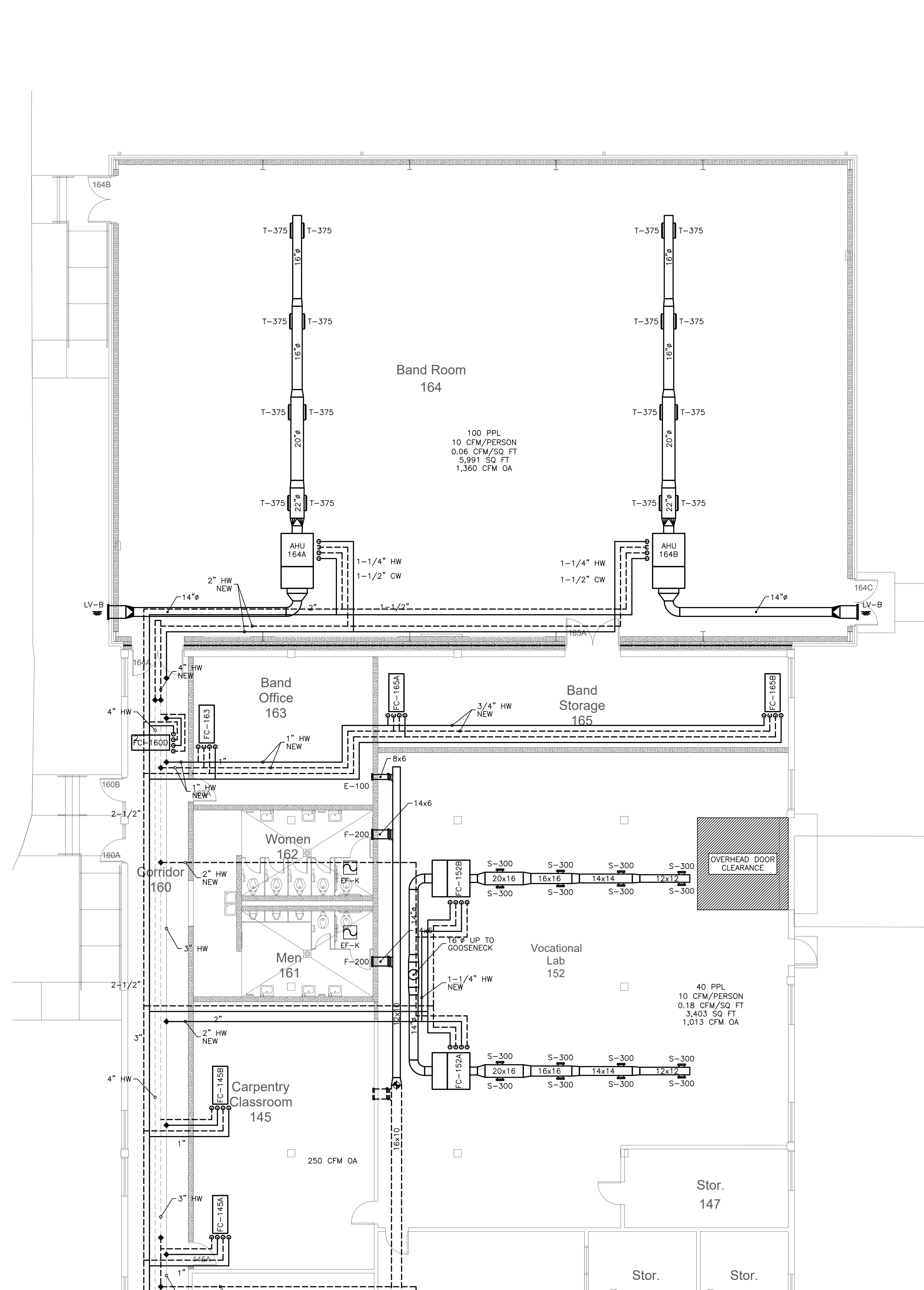
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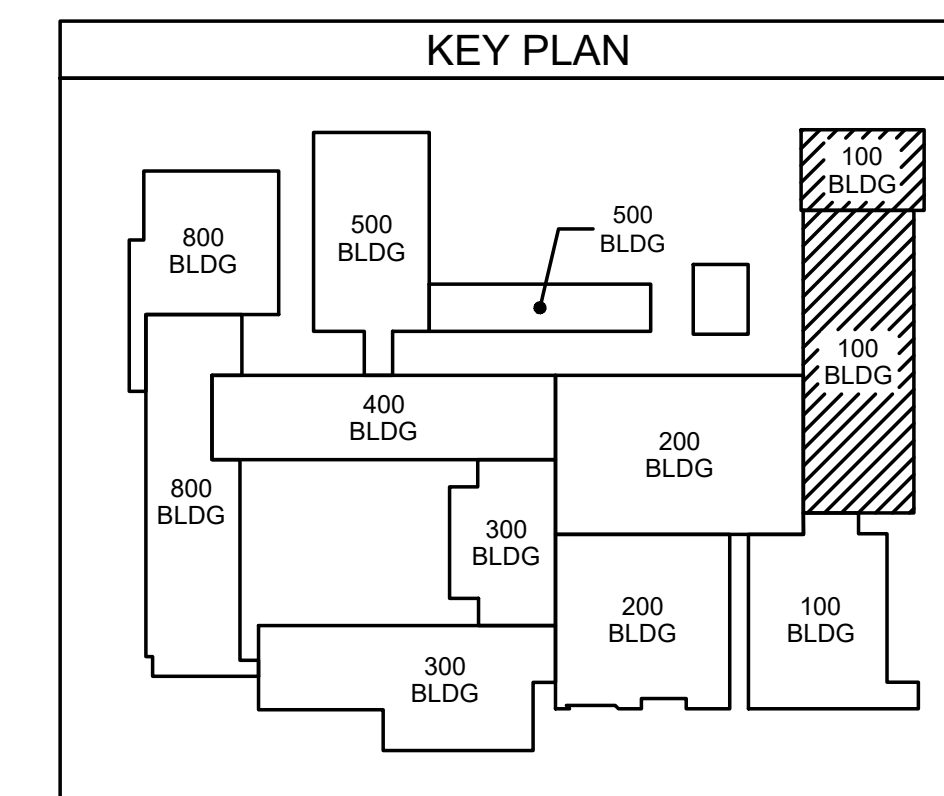
New Additions & Renovations to
West Carteret High School
4700 Country Club Road, Morehead City, NC 28577
Carteret County Schools / North Carolina

Project No: 22112
Date: 03 Oct 2023
Drawing No: **M 107**

ES Project No: ES21080
ENGINEERING
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E-Mail Address: general@hiteassociates.com
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111.1 100 CLASSROOM BUILDING
MECHANICAL PLAN
SCALE: 1/8" = 1'-0"



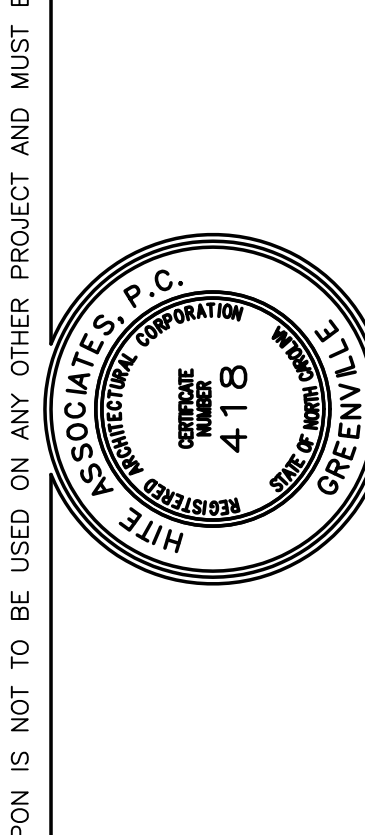
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 E-Mail Address: general@hiteassociates.com
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D. Hite
 10/23/23
 HITE ASSOCIATES, P.C.
 REGISTERED PROFESSIONAL ENGINEER
 NUMBER 4178
 GREENVILLE, NORTH CAROLINA

Project No. 22112
 Date: 03 Oct 2023
 Drawing No. **M 111**

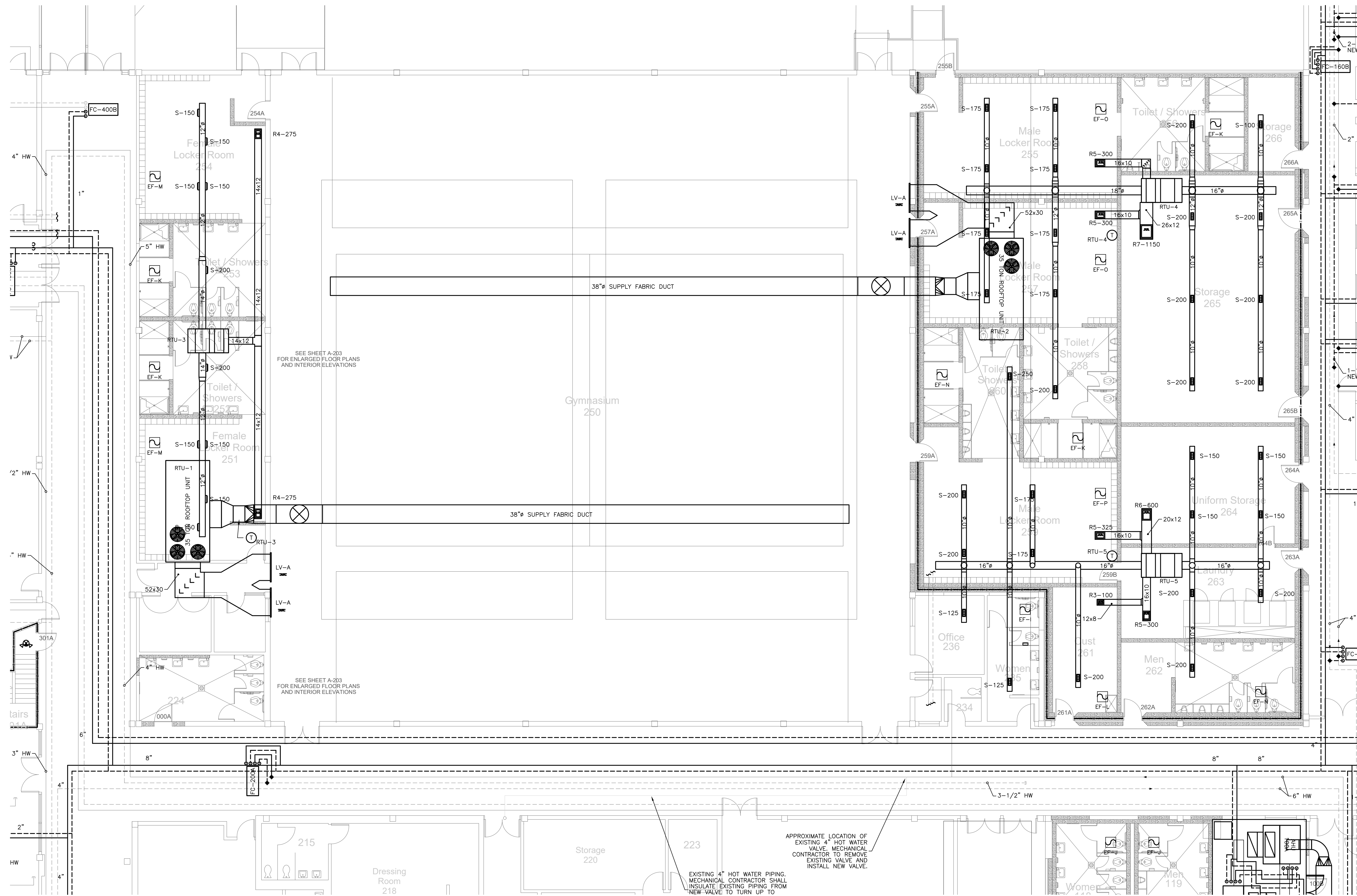
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No.	Date	Revision



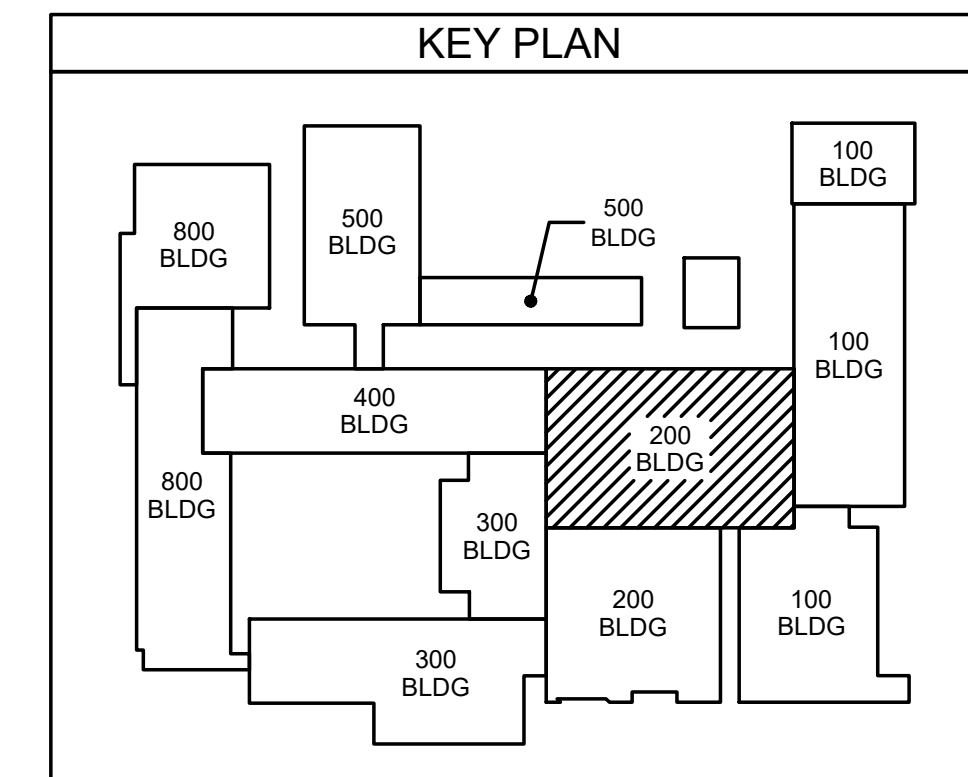
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201.1 GYM AND LOCKER ROOM MECHANICAL PLAN

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



ES Project No. ES21060

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DATE: 10/23/23

DR: [Signature]

SCALE: AS SHOWN

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Professional Seal: HITE ASSOCIATES, P.C. ARCHITECTURE, PLANNING & TECHNOLOGY No. 4178 GREENVILLE, NC

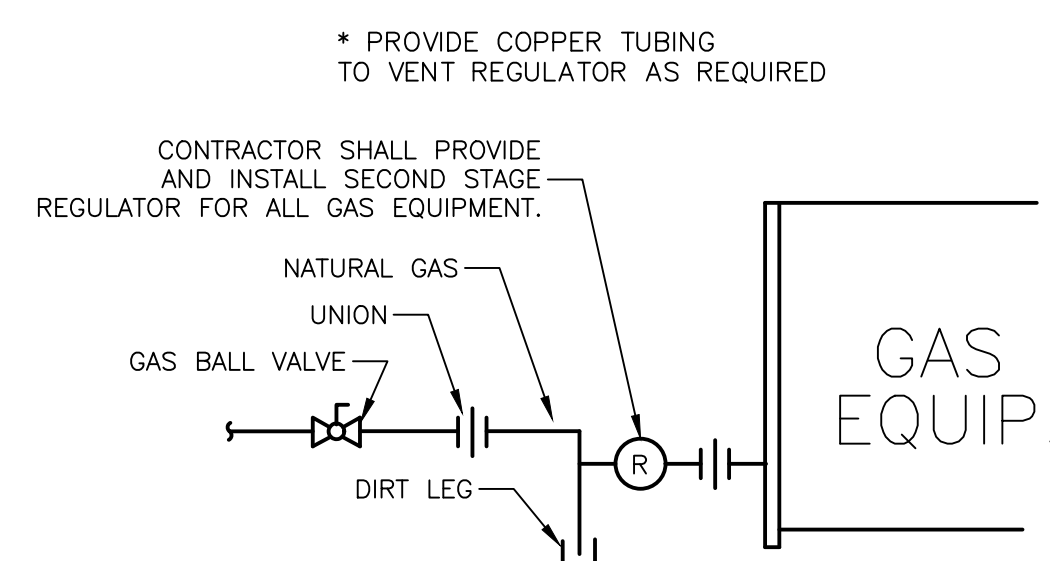
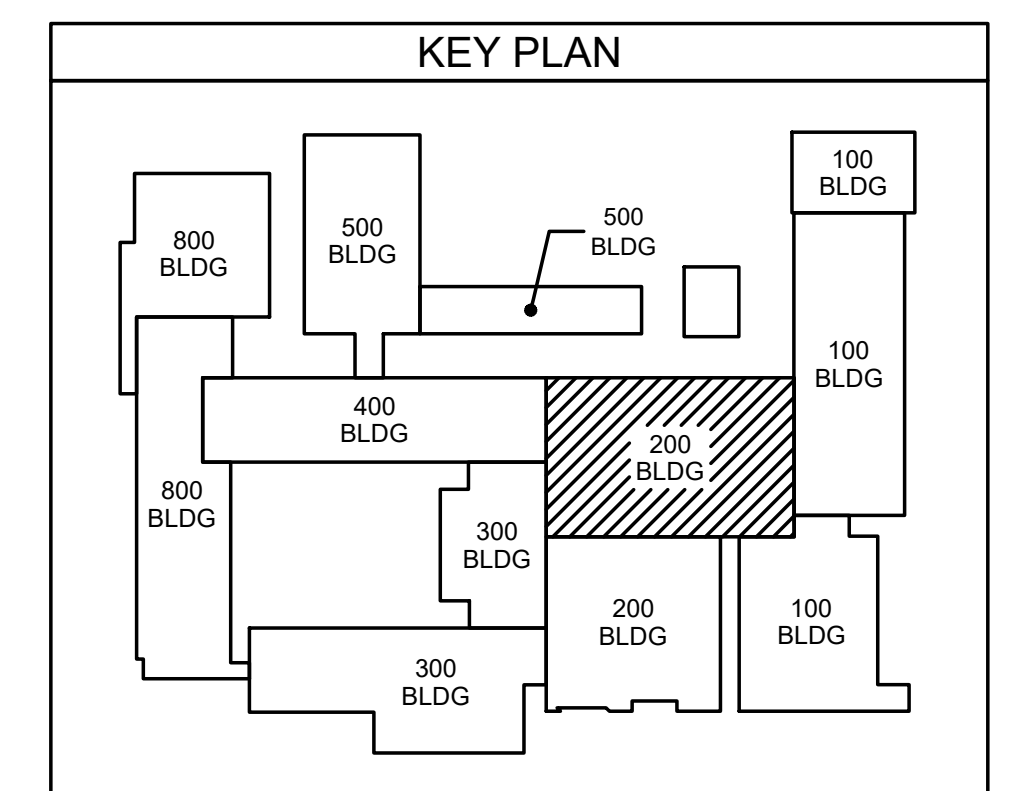
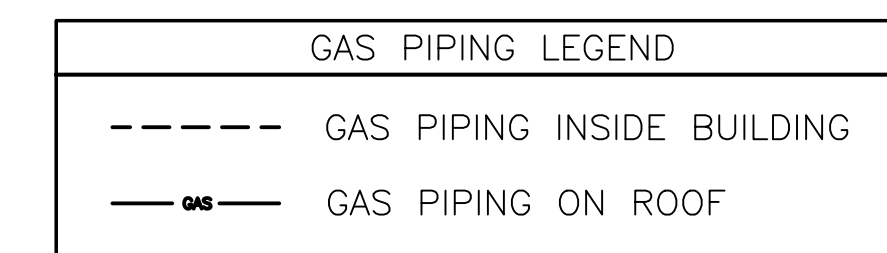
New Additions & Renovations to
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Carteret County Schools / North Carolina

Project No. 22112
Date: 03 Oct 2023
Drawing No. **M 201**

No.	Date	Revision

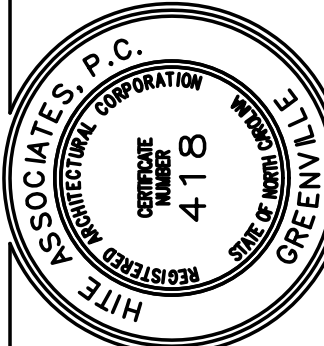


**202.1 GYM AND LOCKER ROOM
GAS & ROOF PLAN**
SCALE: 1/8" = 1'-0"



No.	Date	Revision

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West Carteret High School**
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Carteret County Schools / North Carolina

Project No. 22112

Date: 03 Oct 2023

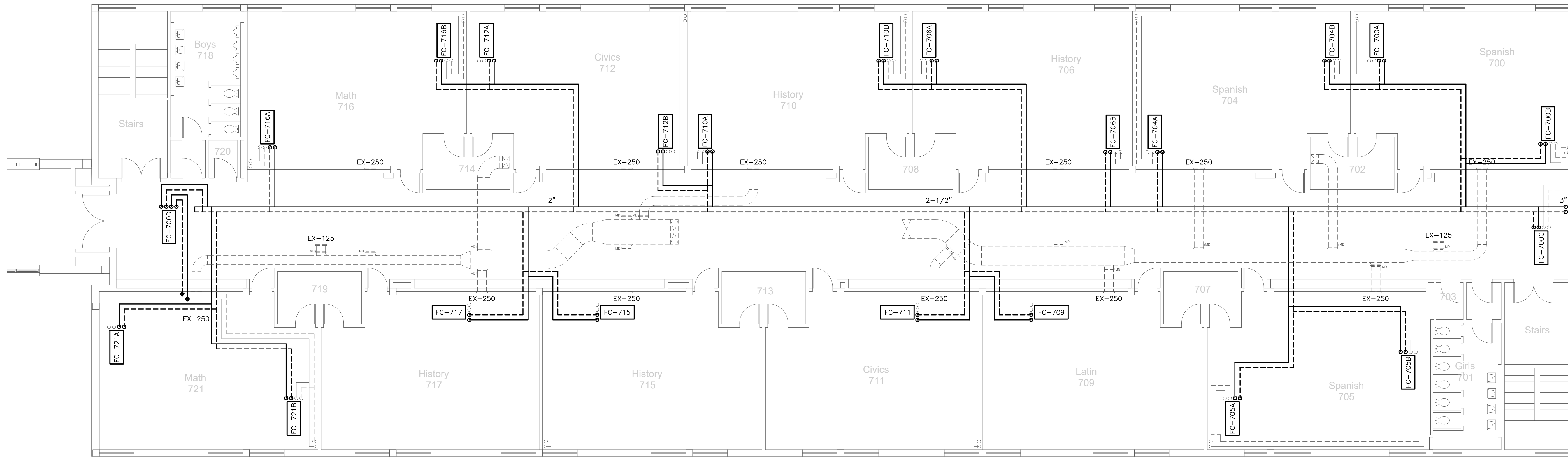
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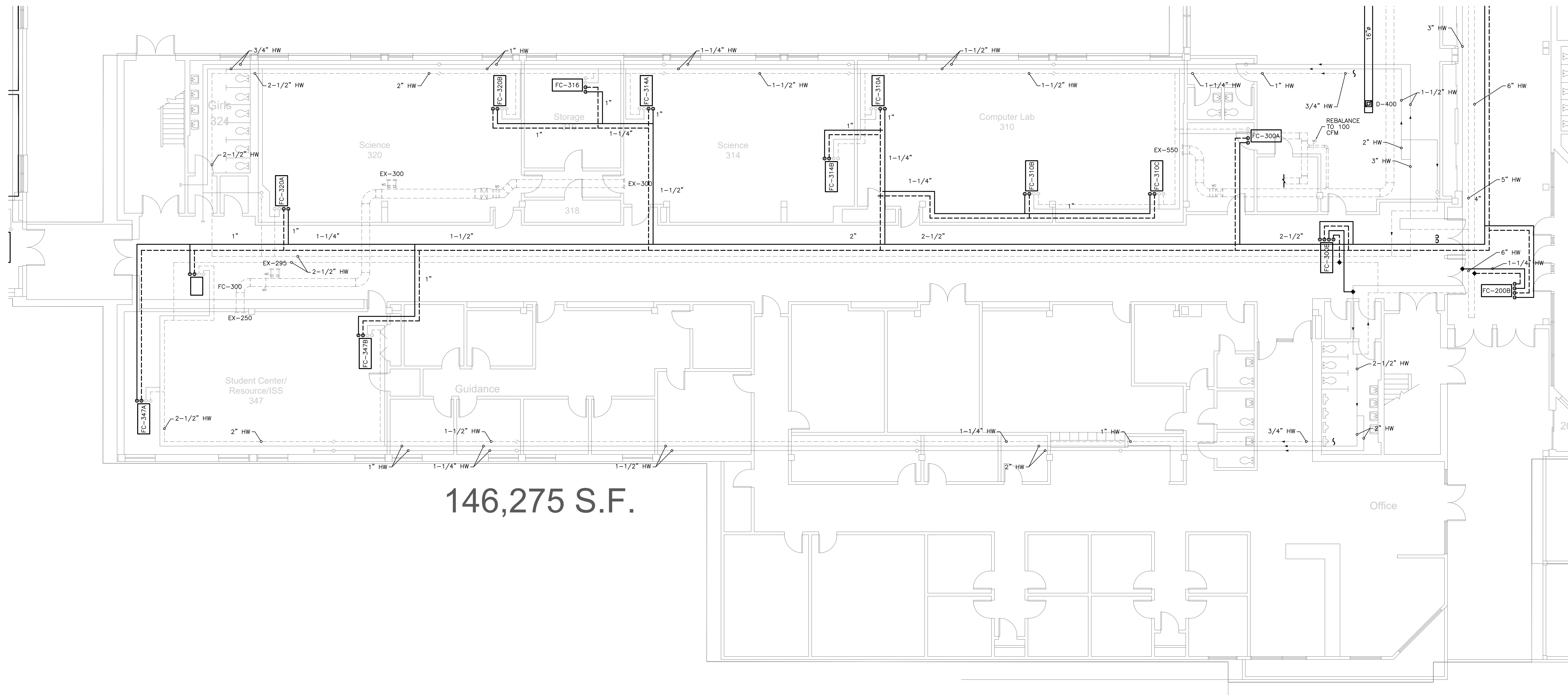
Project No. ES21080

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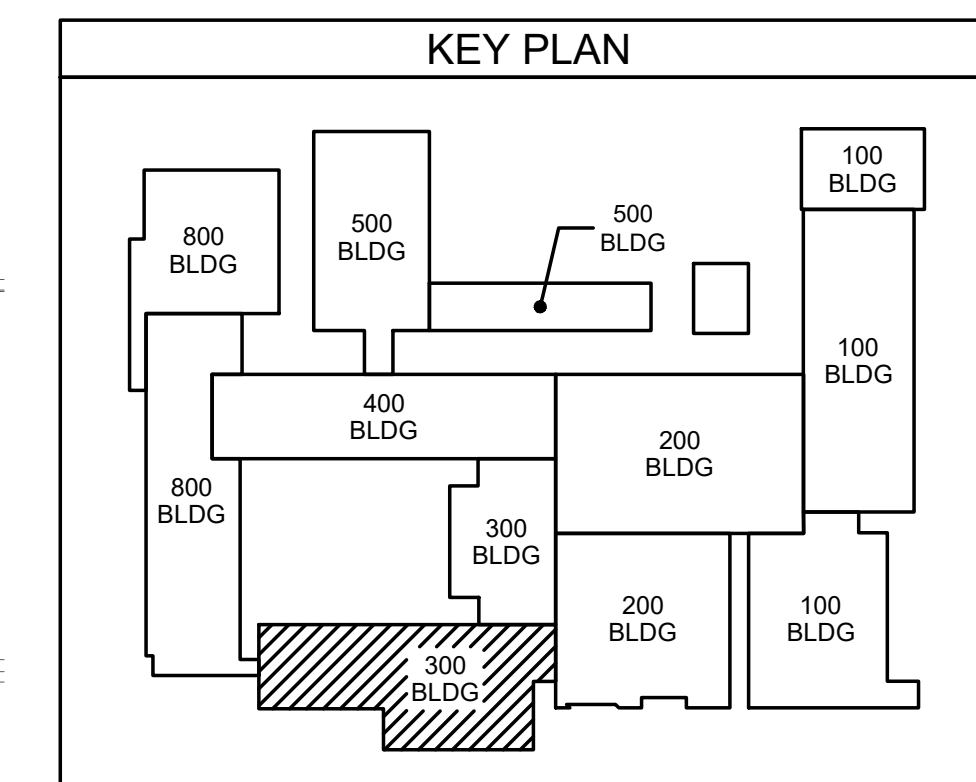


700 CLASSROOM WING (SECOND FLOOR)
301.2 MECHANICAL PLAN
 SCALE: 1/8" = 1'-0"



146,275 S.F.

ADMIN & 300 CLASSROOM WING (FIRST FLOOR)
301.1 MECHANICAL PLAN
 SCALE: 1/8" = 1'-0"

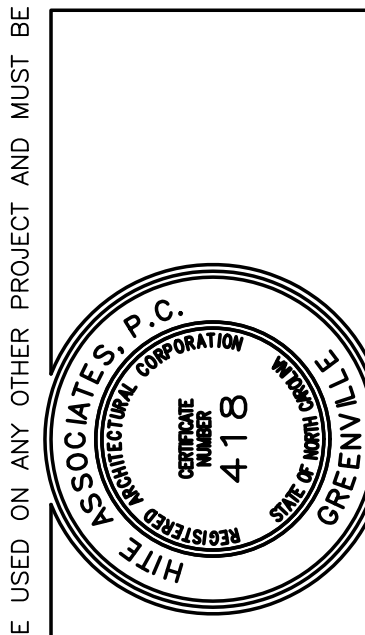


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No.	Date	Revision

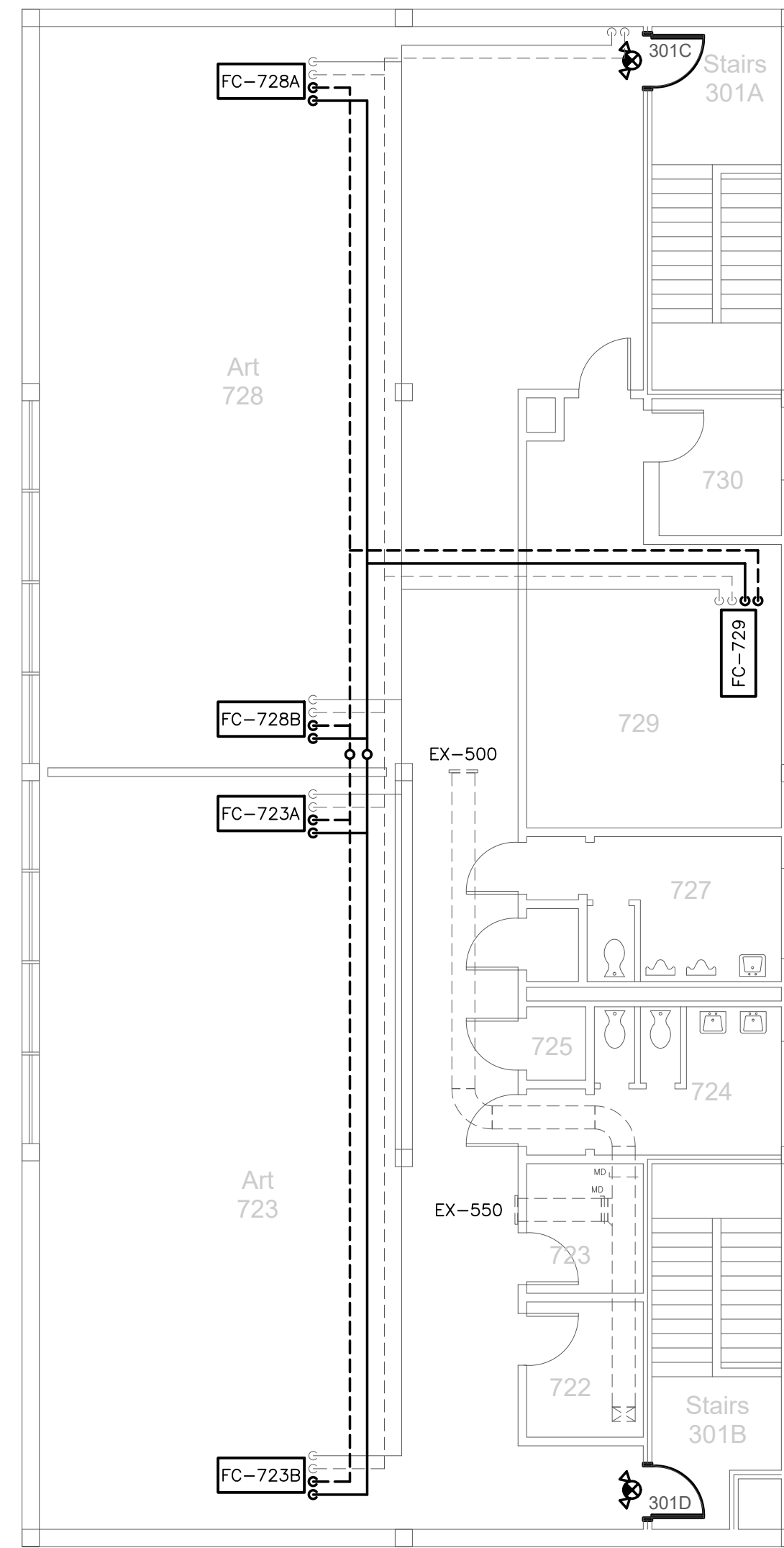
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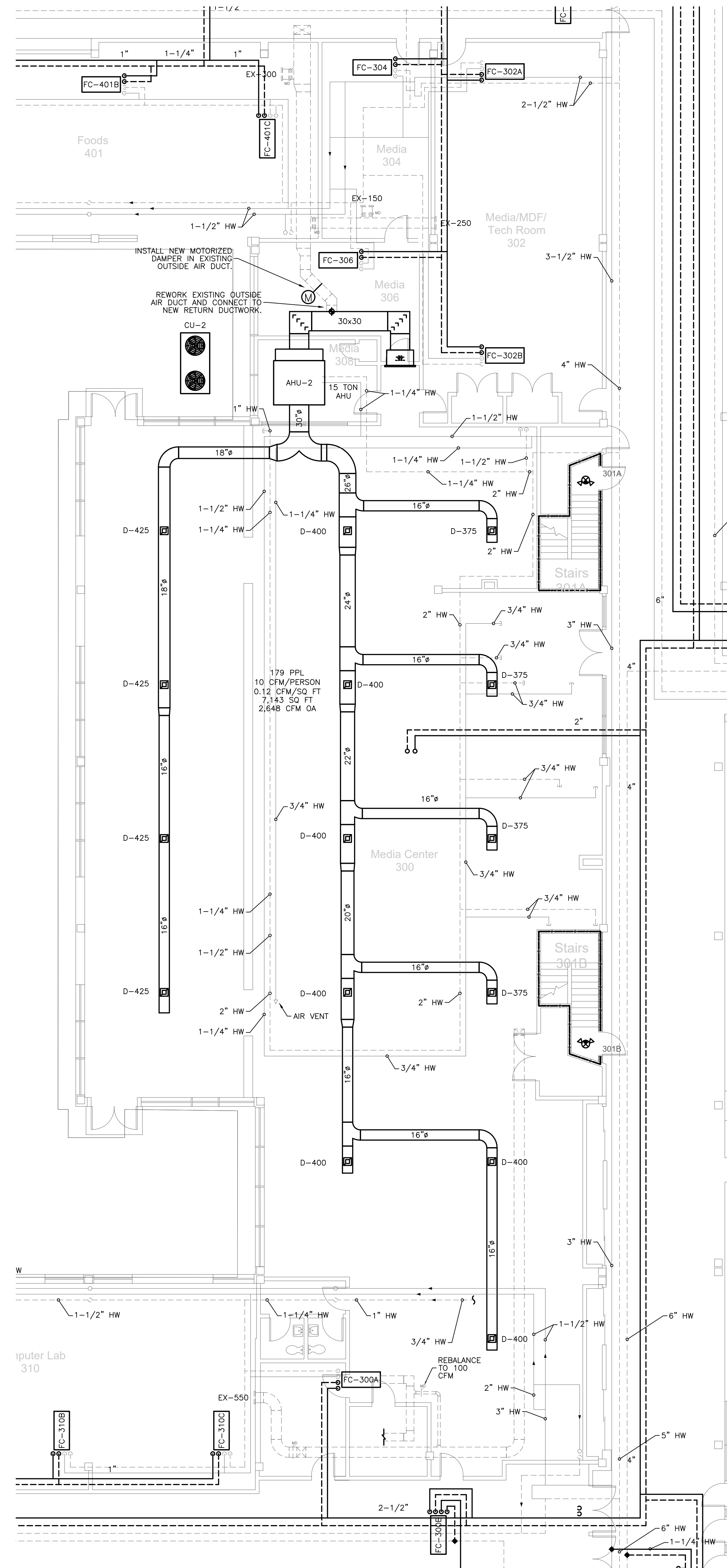
New Additions & Renovations to
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 Date: 03 Oct 2023
 Drawing No. **M 301**

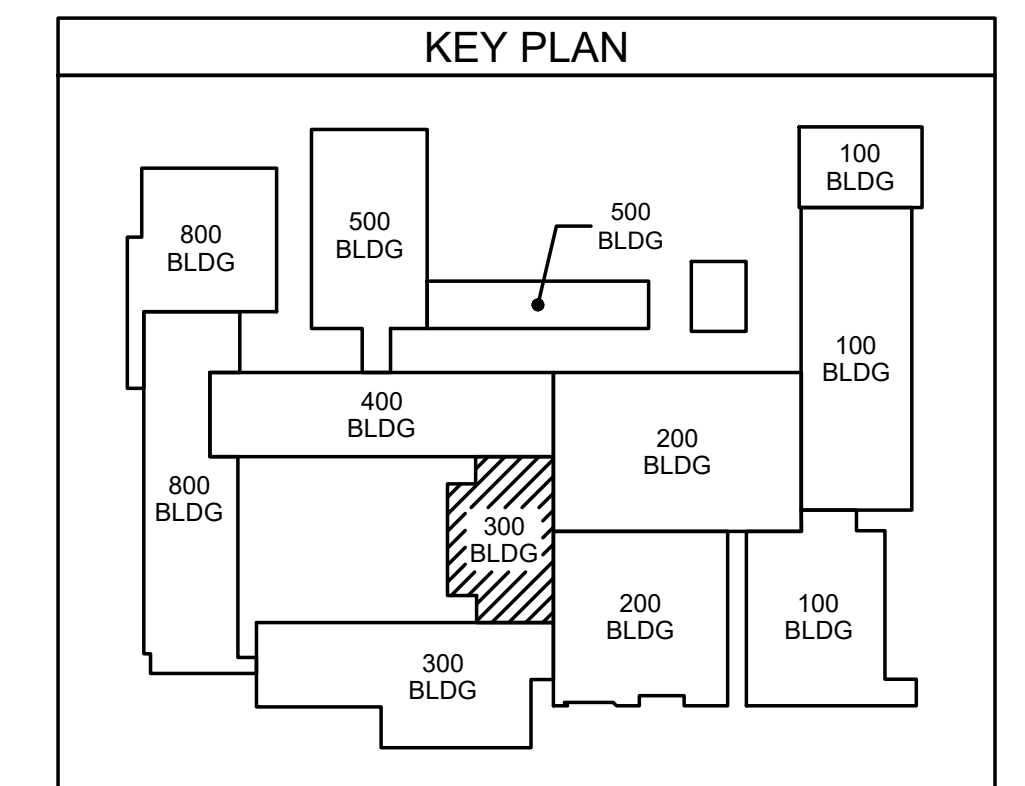
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311.2 MEDIA CENTER SECOND FLOOR
MECHANICAL PLAN
SCALE: 1/8" = 1'-0"



311.1 MEDIA CENTER
MECHANICAL PLAN
SCALE: 1/8" = 1'-0"



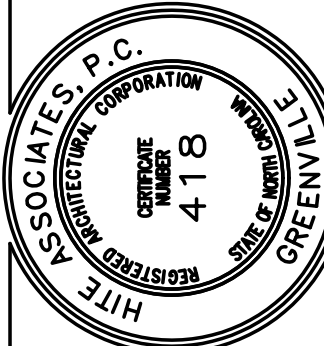
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Professional Engineer
D. Wilson
No. 22112
Exp. 10/23/23
WILSON FOU

No.	Date	Revision

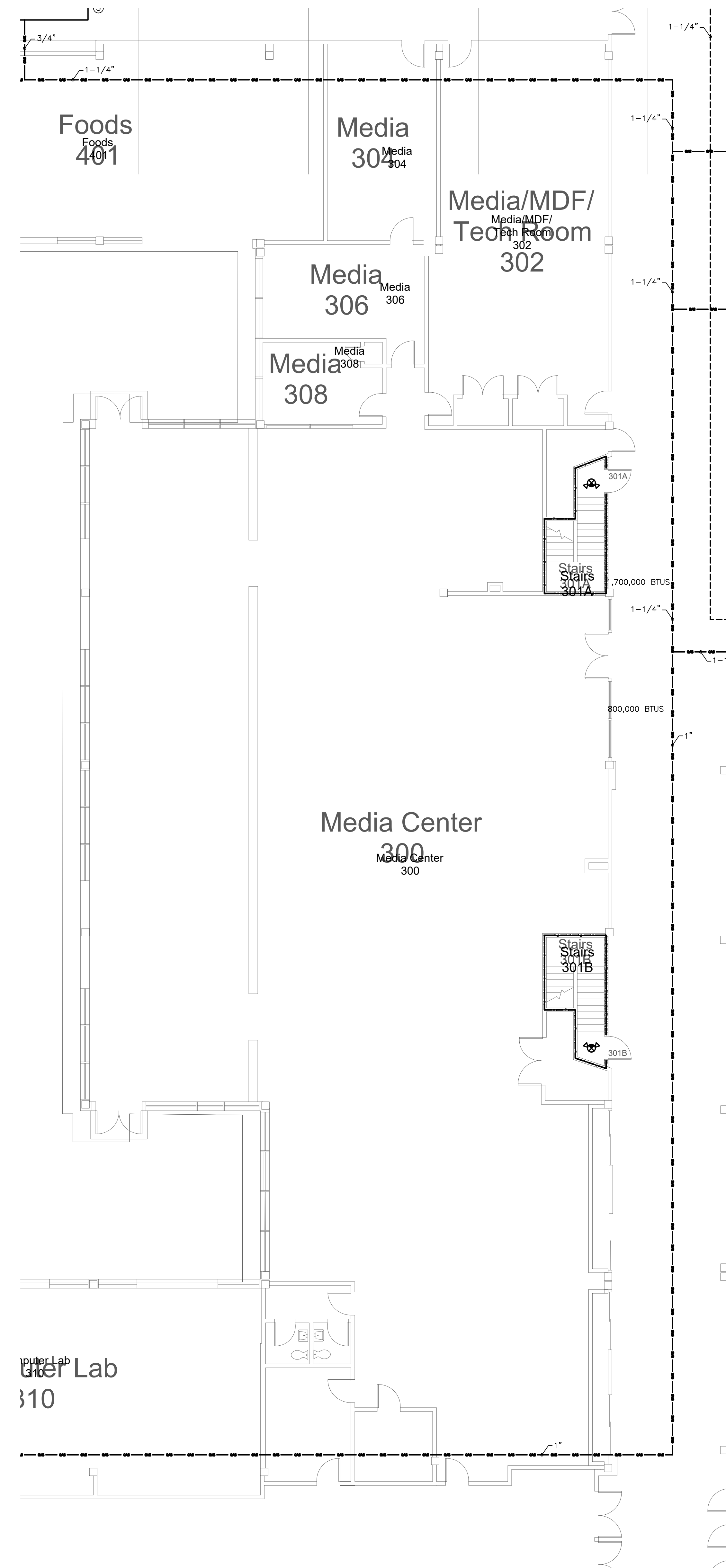
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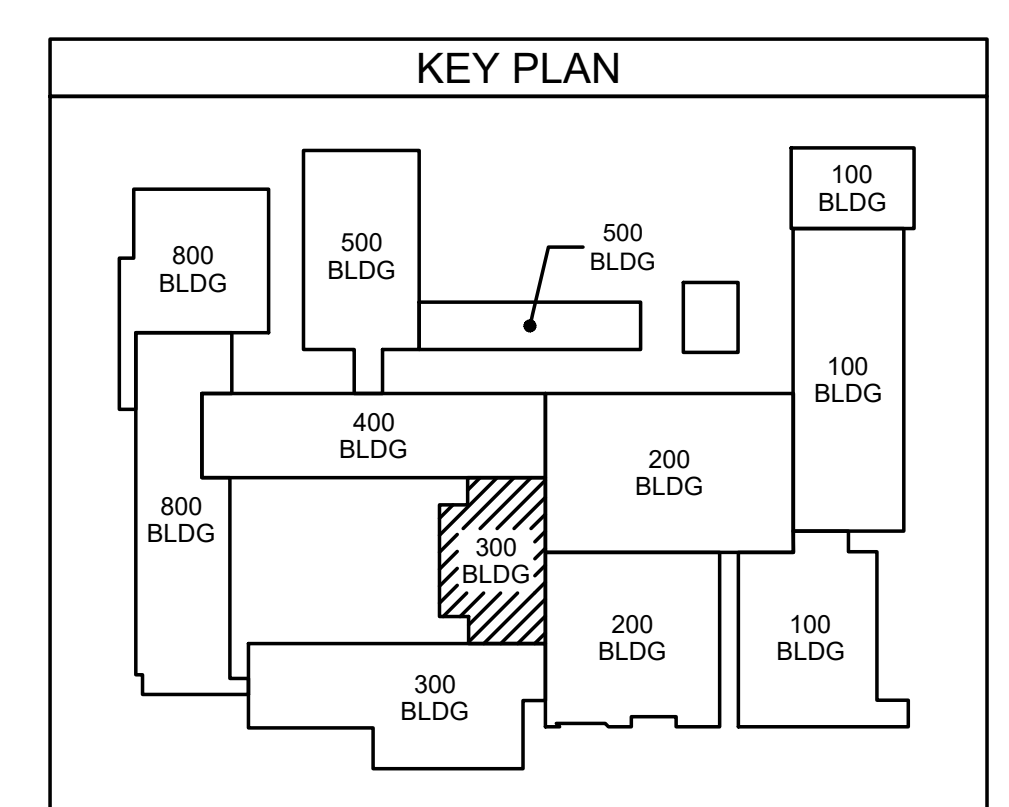
New Additions & Renovations to
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Date: 03 Oct 2023
Drawing No: **M 311**

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GAS PIPING LEGEND	
	GAS PIPING INSIDE BUILDING
	GAS PIPING ON ROOF



312.1 MEDIA CENTER GAS & ROOF PLAN
 SCALE: 1/8" = 1'-0"

ES Project No. ES21080

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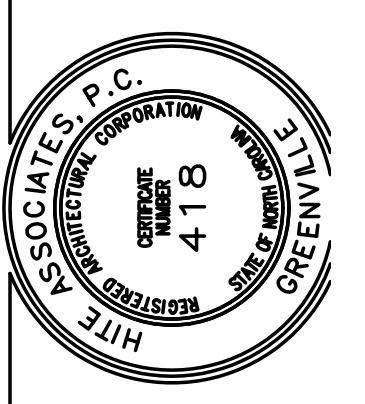
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D. Wilson
 10/23/23
 WILSON FOU

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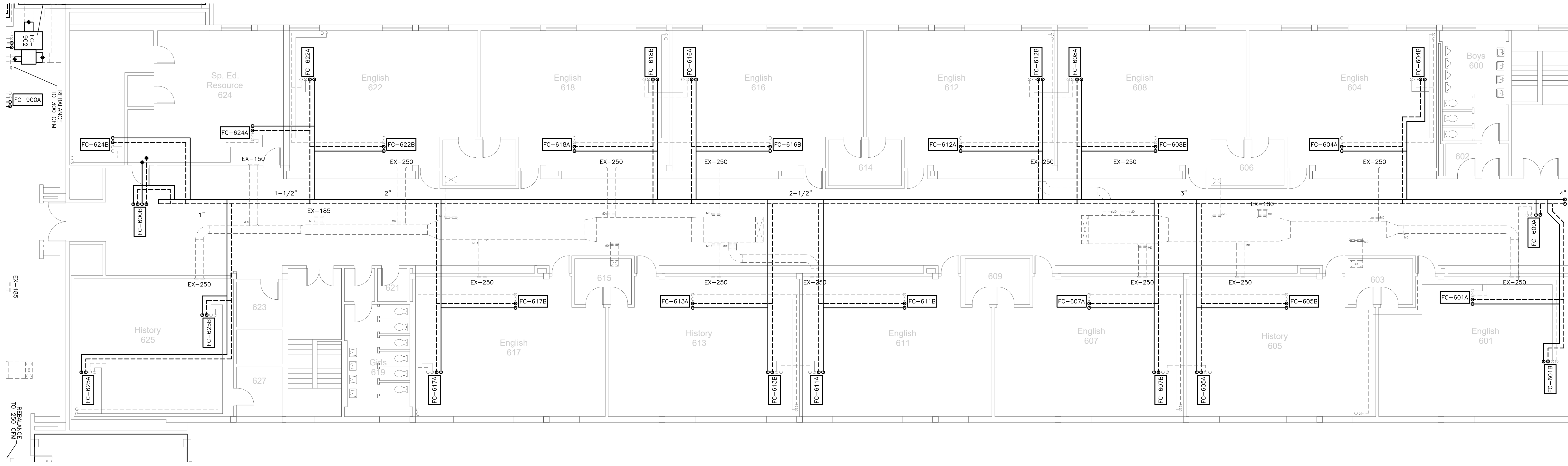
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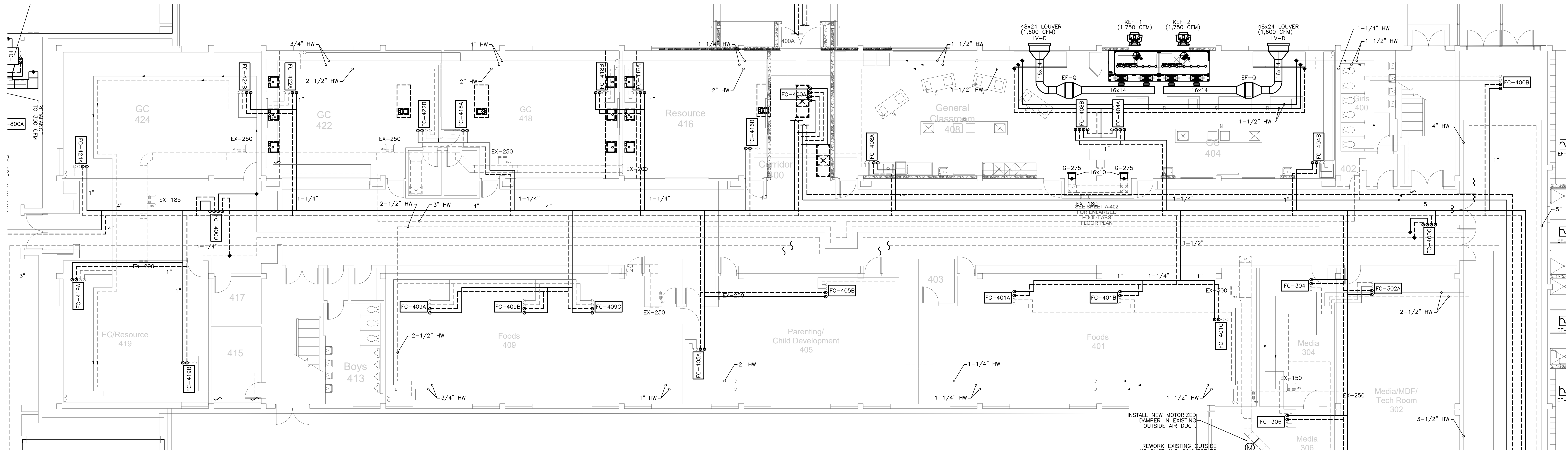


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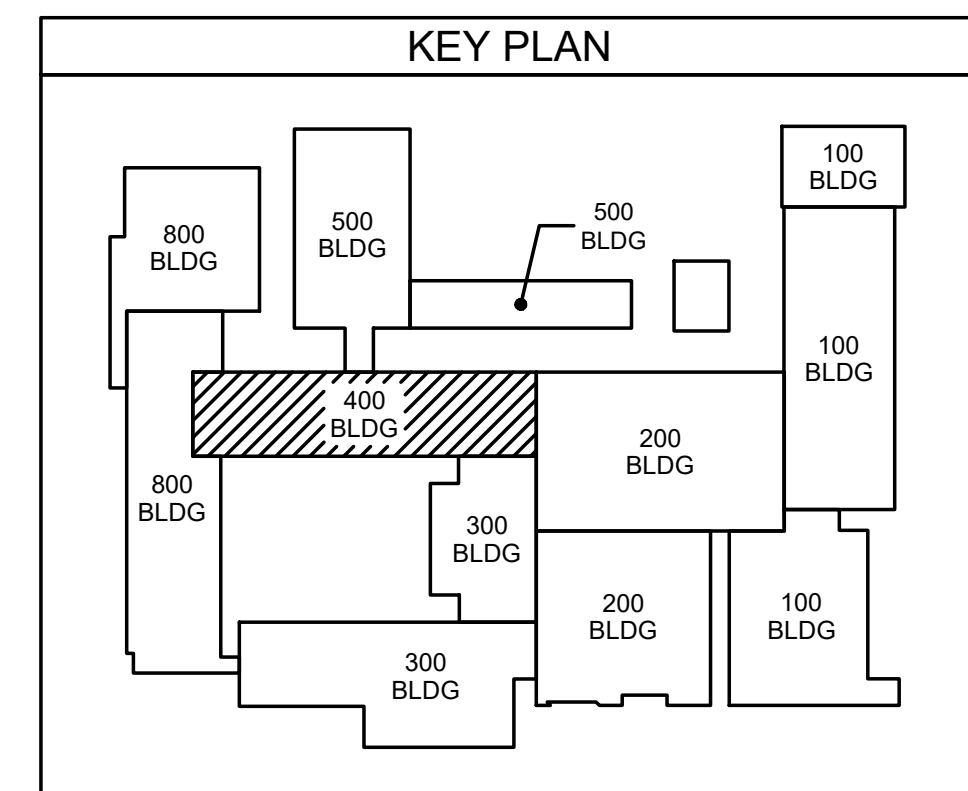
Project No. 22112
 Date: 03 Oct 2023
 Drawing No. **M 312**



600 CLASSROOM WING (SECOND FLOOR)
401.2 MECHANICAL PLAN
 SCALE: 1/8" = 1'-0"



400 CLASSROOM WING (FIRST FLOOR)
401.1 MECHANICAL PLAN
 SCALE: 1/8" = 1'-0"



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D. Hite Associates, P.C.
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HITE ASSOCIATES, P.C.
 REGISTERED PROFESSIONAL ENGINEER
 NUMBER 418
 GREENVILLE, NC

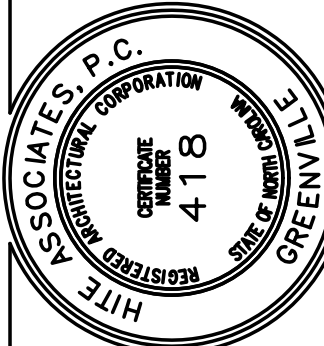
New Additions & Renovations to
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 4700 Country Club Road, Morehead City, NC 28577
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Project No: 22112
 Date: 03 Oct 2023
 Drawing no: **M 401**

No.	Date	Revision

No.	Date	Revision

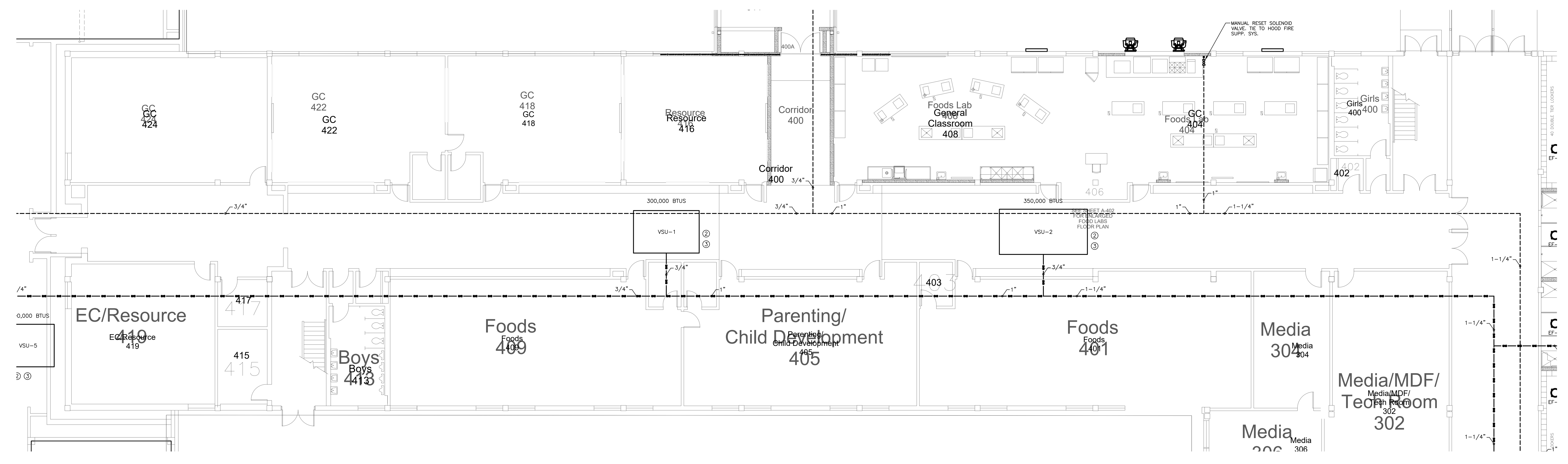
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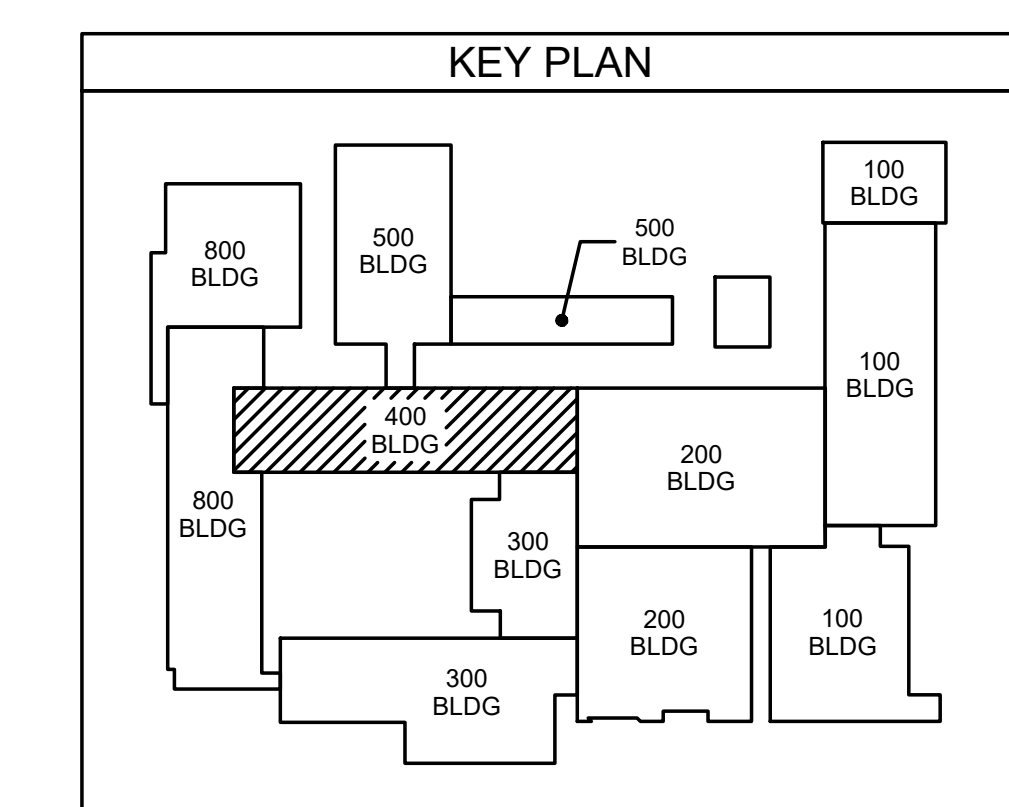
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 West Carteret High School**
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Project No: 22112
 Date: 03 Oct 2023
 Drawing No: **M 402**

GAS PIPING LEGEND	
---	GAS PIPING INSIDE BUILDING
—	GAS PIPING ON ROOF



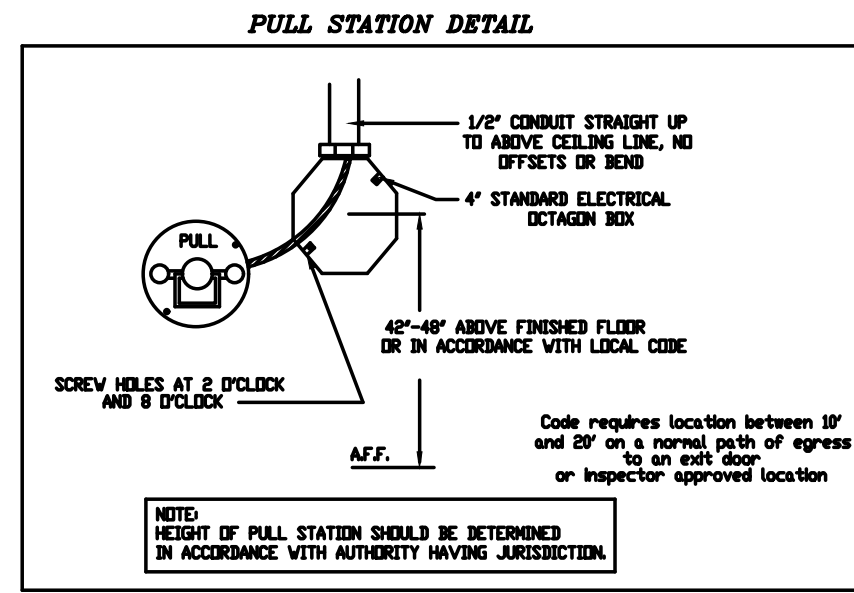
402.1 400 CLASSROOM WING (FIRST FLOOR)
 GAS & ROOF PLAN
 SCALE: 1/8" = 1'-0"



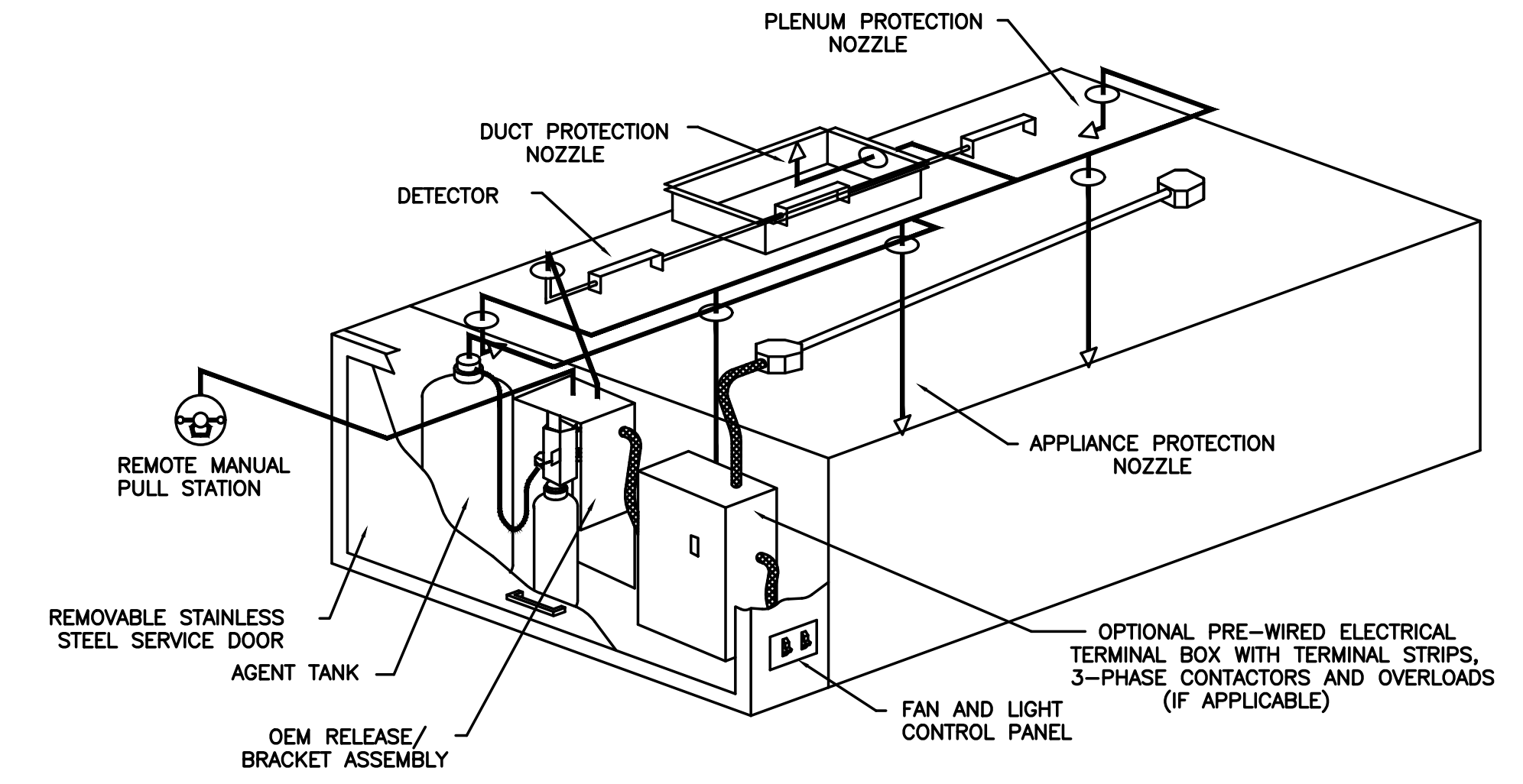
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UL 300 HOOD FIRE SUPPRESSION SYSTEM

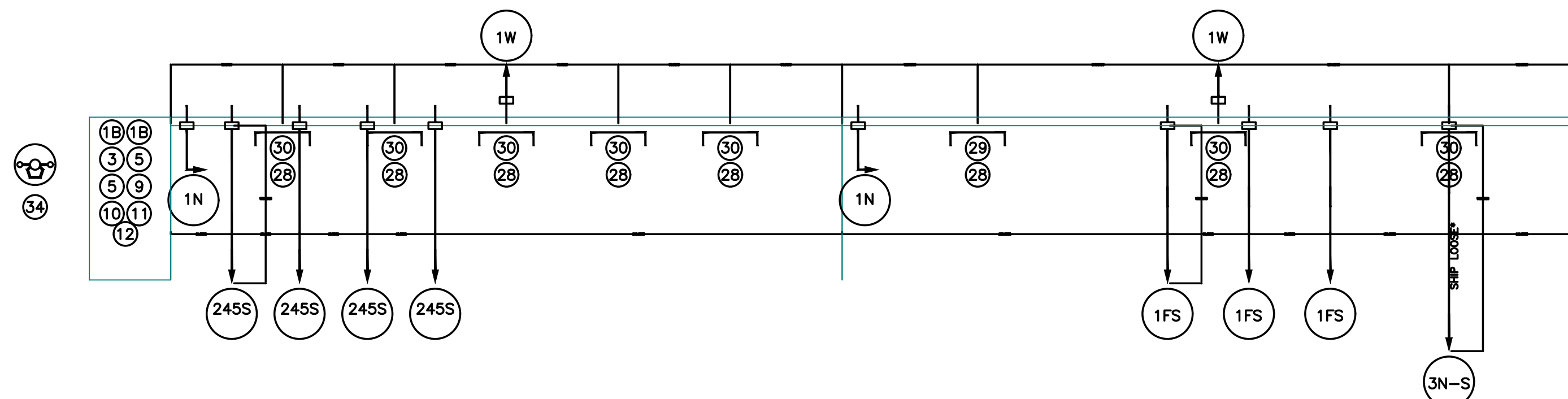
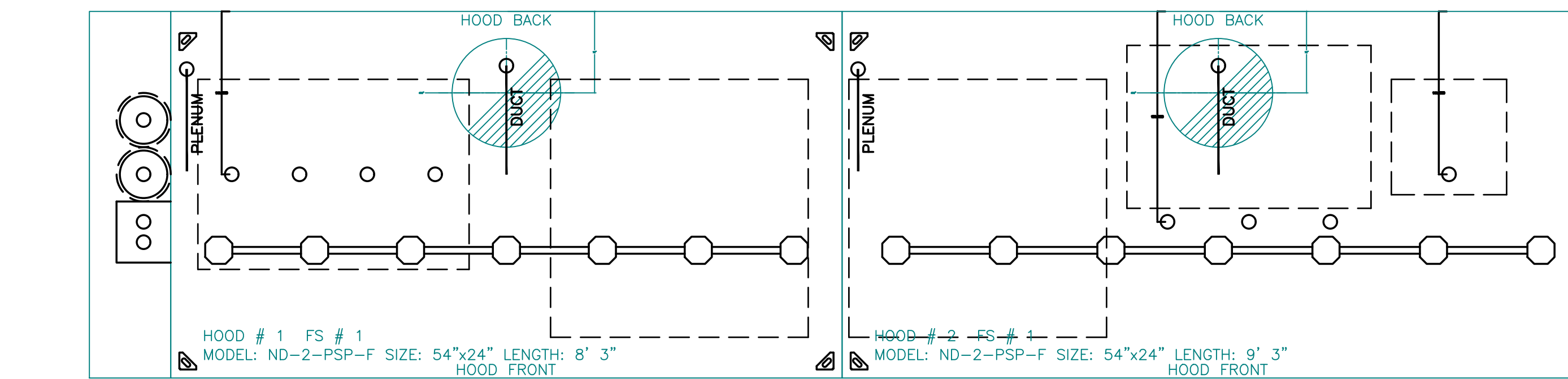


- FIRE SYSTEM OPERATION**
- Kitchen hood shall be constructed and installed per NFPA 96.
 - Hood Electrical Control Panel and Fire Control System shall shut down kitchen hood make up air fan upon activation of fire extinguishing system. Kitchen hood exhaust fan shall continue to operate or power on upon activation. The hood electrical panel and fire system will provide interlock for automatic operation of fire suppression system with:
 - Mechanical gas valve (installed by mechanical/plumbing contractor, if gas used)
 - Hood supply and exhaust fan (wiring by elec)
 - Remote manual pull station (by hood fire system distr)
 - Fire alarm system notification (if Bldg Fire Alarm present, by Fire alarm Contractor)
 - See Hood details for drawings
 - All exposed piping with fire suppression system shall be covered with a chrome sleeve.
 - Mechanical contractor shall install conduit in wall for manual pull station. Pull Station shall be located at or near a means of egress from the cooking area.
 - Fire suppression system shall be in accordance with UL 300.



NOTES

- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 1 60IN LONG PIECE OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVEING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE COVERING A RANGE, FRYER, OR WOK TO REFLECT GENERAL PIPING REQUIREMENTS.
- IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.



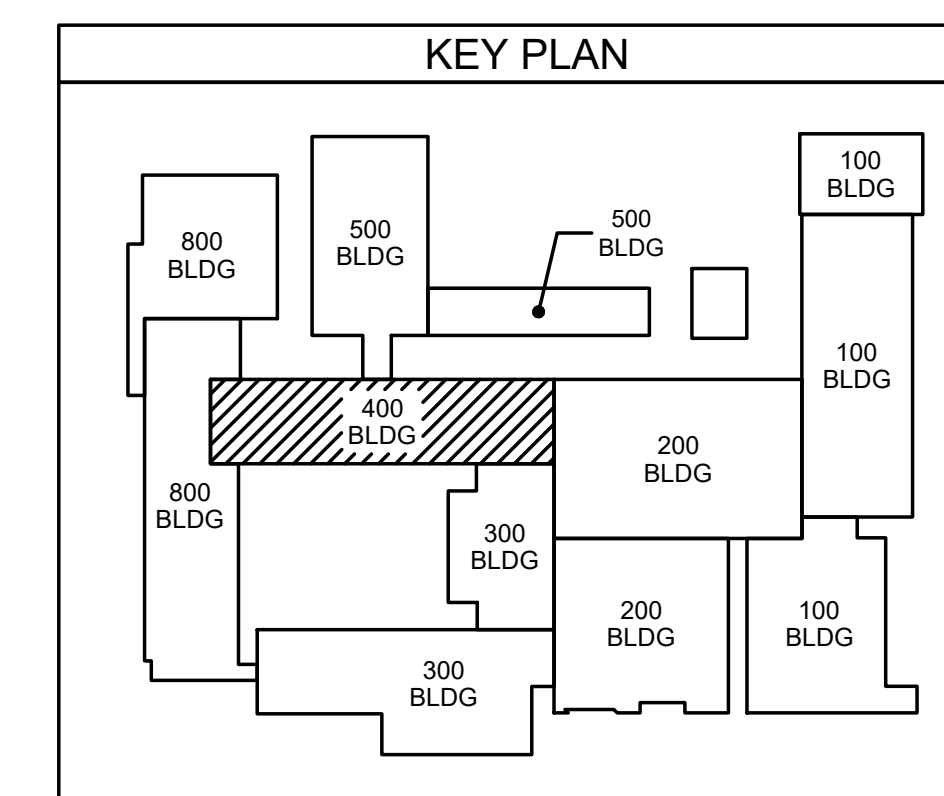
ANSUL OVERLAPPING COVERAGE HIGH PROXIMITY 40.00" L X 28.00" D	OVEN HIGH PROXIMITY 36.00" L X 38.00" D	OVEN HIGH PROXIMITY 36.00" L X 38.00" D	RANGE-SHELF (20" MIN FROM GRATE) HIGH PROXIMITY 36.00" L X 24.00" D	FRYER-W/DRIP BOARD HIGH PROXIMITY 17.00" L X 17.00" D
---------------------------------------------------------------------	-----------------------------------------------	-----------------------------------------------	---------------------------------------------------------------------------	-------------------------------------------------------------

JOB NAME: FOODS LAB HOOD 080322.

SYSTEM SIZE: ANSUL-3.0/3.0 TOTAL FP REQUIRED: 18.
 HOOD # 1 8' 3.00" LONG x 54" WIDE x 24" HIGH.
 RISER # 1 SIZE: 16" DIA.
 HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.
 HOOD # 2 9' 3.00" LONG x 54" WIDE x 24" HIGH.
 RISER # 1 SIZE: 16" DIA.
 HOOD # 2 METAL BLOW-OFF CAPS INCLUDED.

LEGEND - FIRE CABINET ANSUL SYSTEM

- 1A 1.5 GALLON TANK.
- 1B 3 GALLON TANK.
- 2 OEM AUTOMAN RELEASE.
- 3 OEM REGULATED RELEASE.
- 4 OEM REGULATED ACTUATOR.
- 5 ANSULEX LIQUID AGENT (3 GAL.).
- 6 ANSULEX LIQUID AGENT (1.5 GAL.).
- 7 CARTRIDGE (101-20).
- 8 CARTRIDGE (101-10).
- 9 CARTRIDGE (101-30).
- 9A CARTRIDGE (LT-A-101-30).
- 9B DOUBLE TANK CARTRIDGE.
- 10 TEST LINK.
- 11 DOUBLE MICROSWITCH.
- 12 HOSE ASSEMBLY.
- 1100 DUCT NOZZLE (430913).
- 2W DUCT NOZZLE (419337).
- 1W NOZZLE ASSEMBLY (419336).
- 1F NOZZLE ASSEMBLY (419333).
- 1N NOZZLE ASSEMBLY (419335).
- 1/2N NOZZLE ASSEMBLY (419334).
- 3N NOZZLE ASSEMBLY (419338).
- 245 NOZZLE ASSEMBLY (419340).
- 230 NOZZLE ASSEMBLY (419339).
- 2120 NOZZLE ASSEMBLY (419343).
- 290 NOZZLE ASSEMBLY (419342).
- 250 NOZZLE ASSEMBLY (419341).
- 28 DETECTOR BRACKET.
- 29 LOW TEMP FUSIBLE LINK.
- 30 HIGH TEMP FUSIBLE LINK.
- MGV MECHANICAL GAS VALVE.
- EGV ELECTRICAL GAS VALVE.
- 34 REMOTE MANUAL PULL STATION.
- S SWIVEL ADAPTOR.



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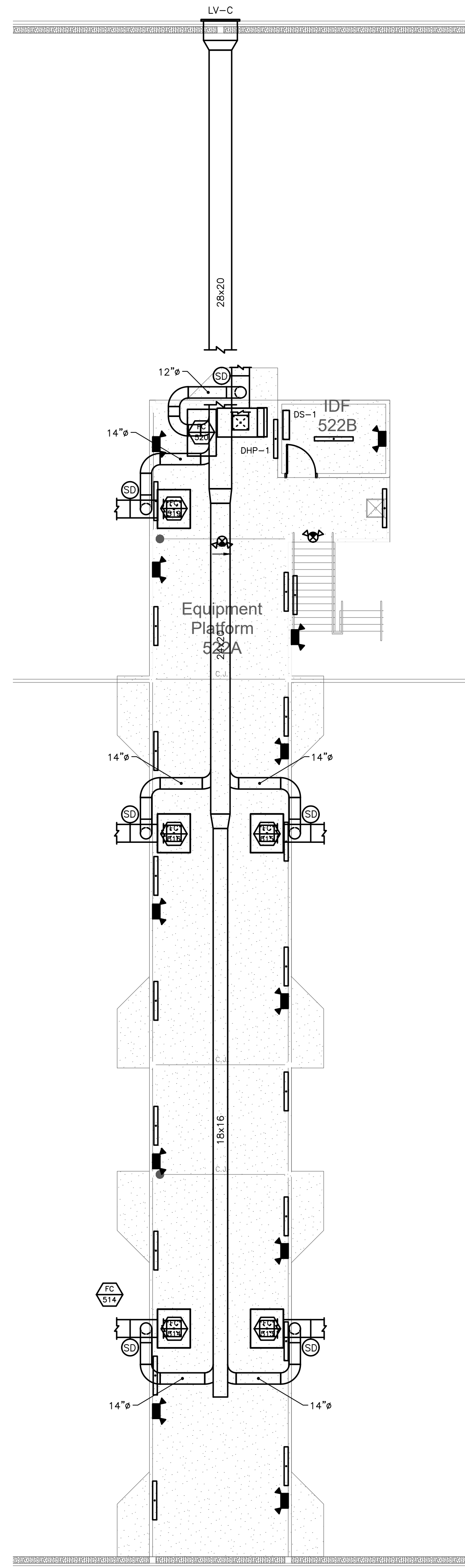
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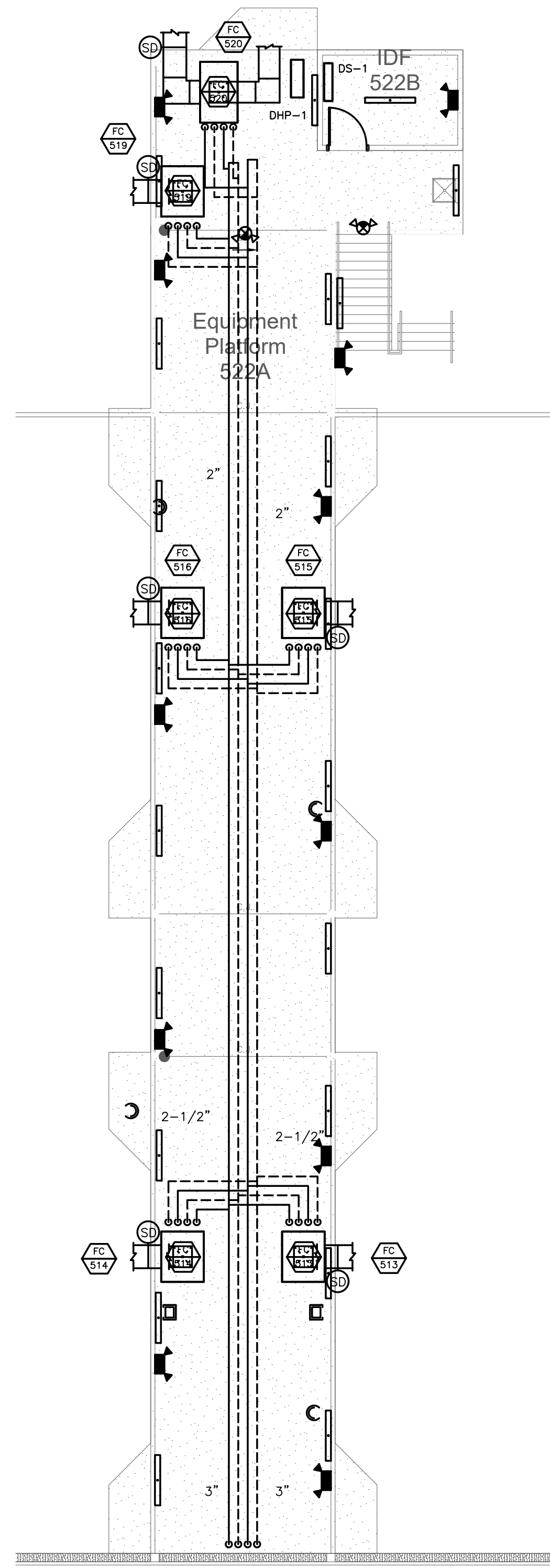
INFORMATION TAKEN FROM SIMILAR JOB BY CAPTIVE-AIRE, INCLUDED FOR REFERENCE ONLY

Project No. 22112
Date: 03 Oct 2023
Drawing No. M 405

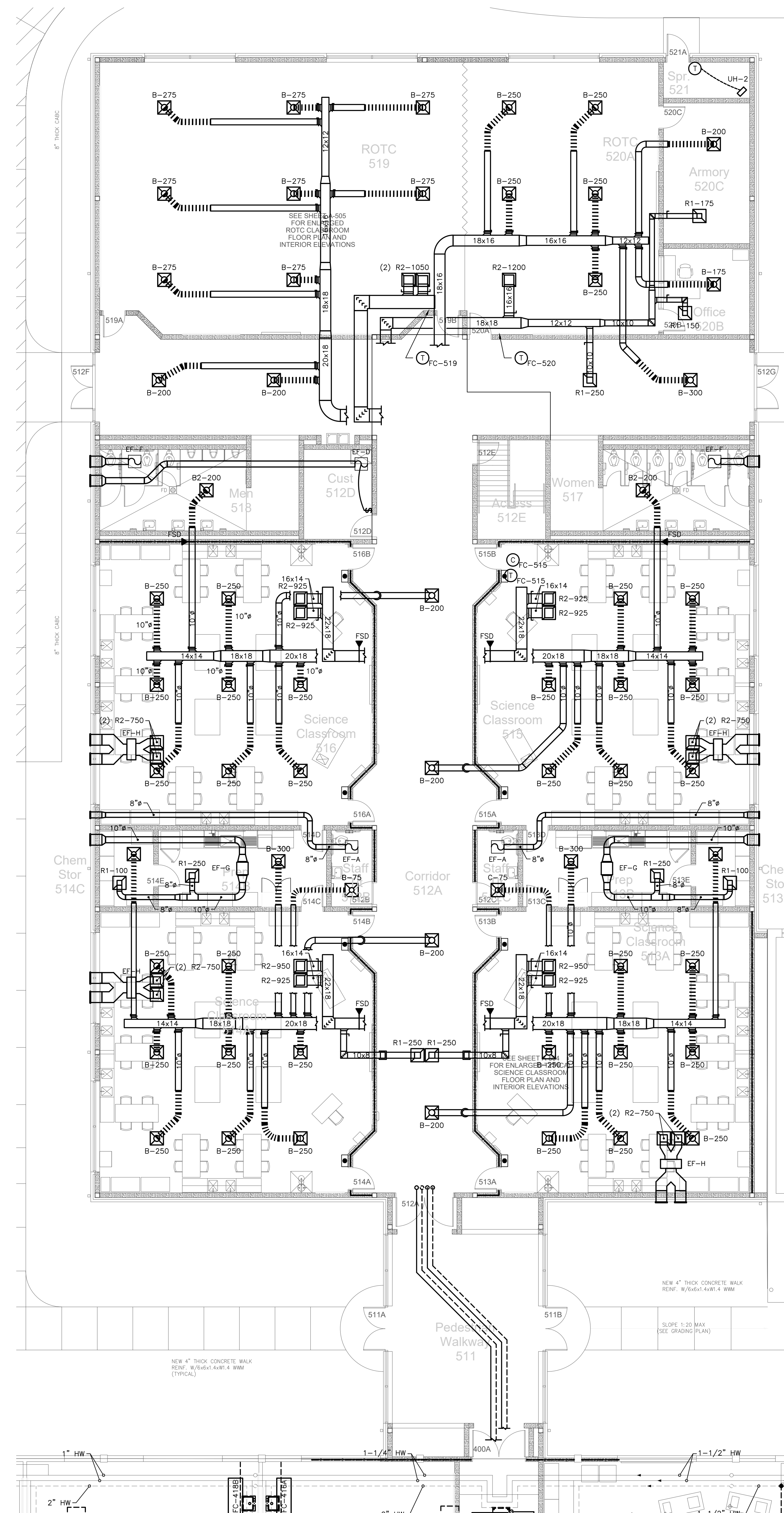
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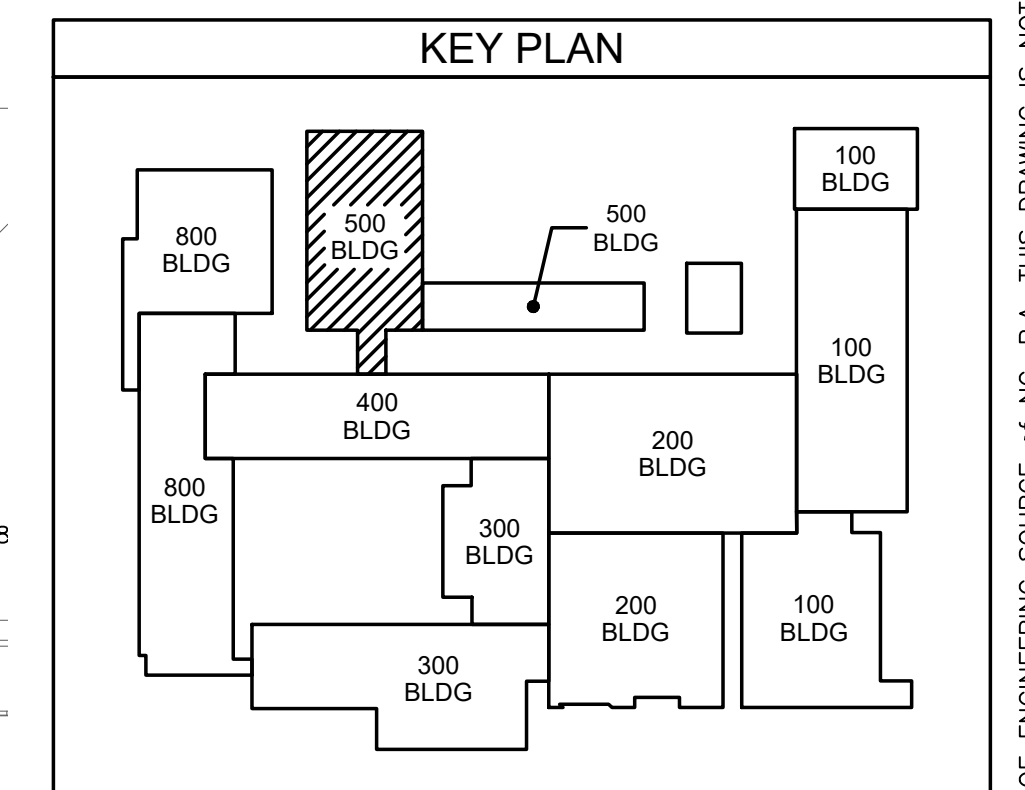
500 CLASSROOM WING
501.2 MECHANICAL PLATFORM PLAN
SCALE: 1/8" = 1'-0"



500 CLASSROOM WING
501.2 MECHANICAL PIPING PLAN
SCALE: 1/8" = 1'-0"



500 CLASSROOM WING
501.1 MECHANICAL PLAN
SCALE: 1/8" = 1'-0"



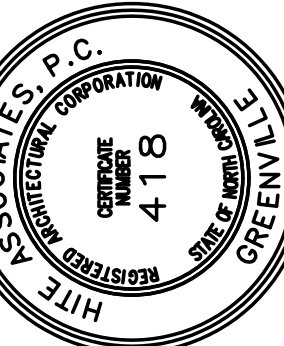
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D. Wilson
10/23/23
REGISTERED PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA
NO. 15089

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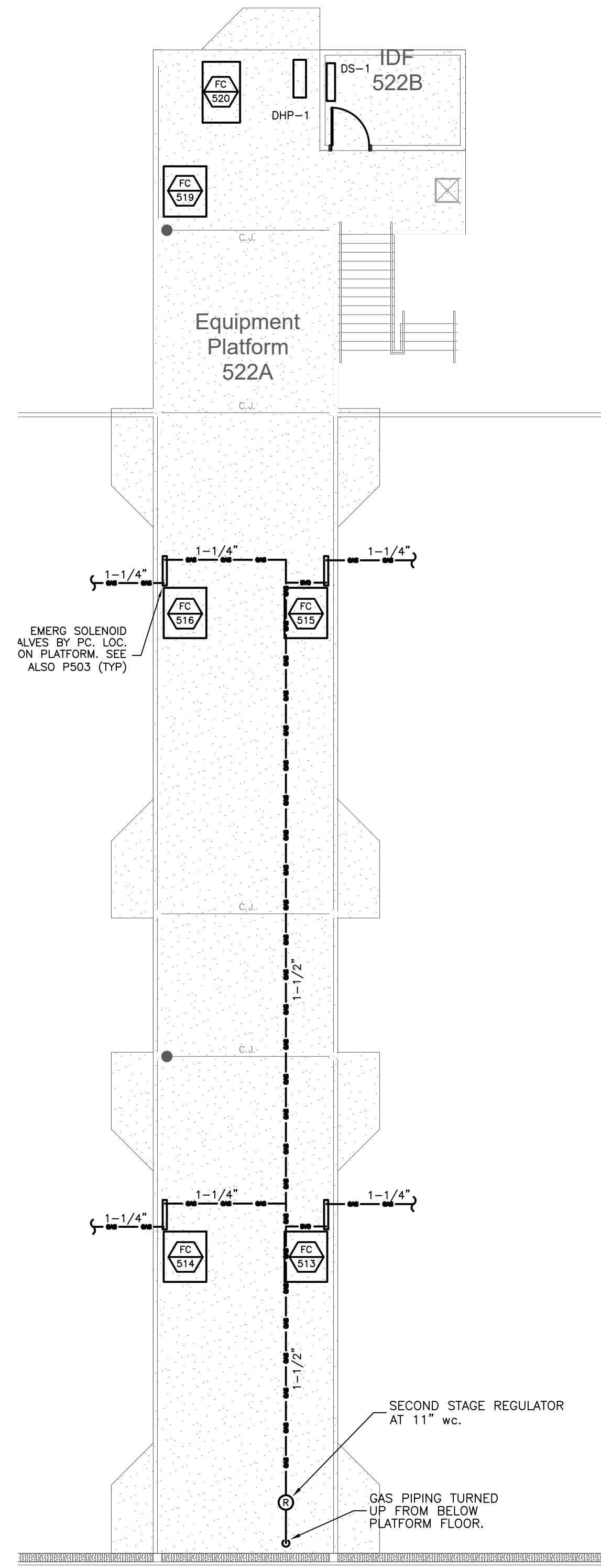
No.	Date	Revision

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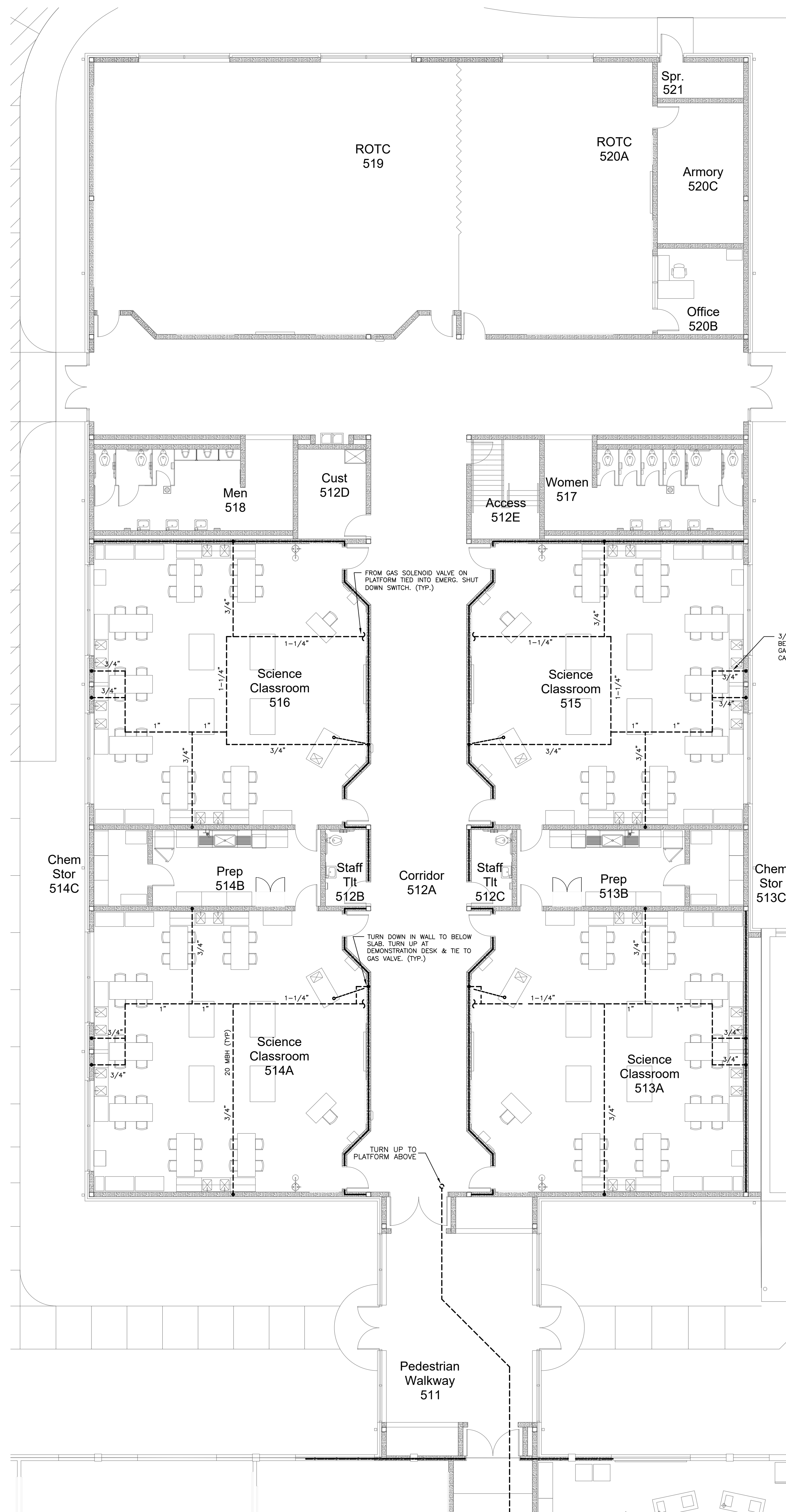


New Additions & Renovations to
West Carteret High School
4700 Country Club Road, Morehead City, NC 28577
Carteret County Schools / North Carolina

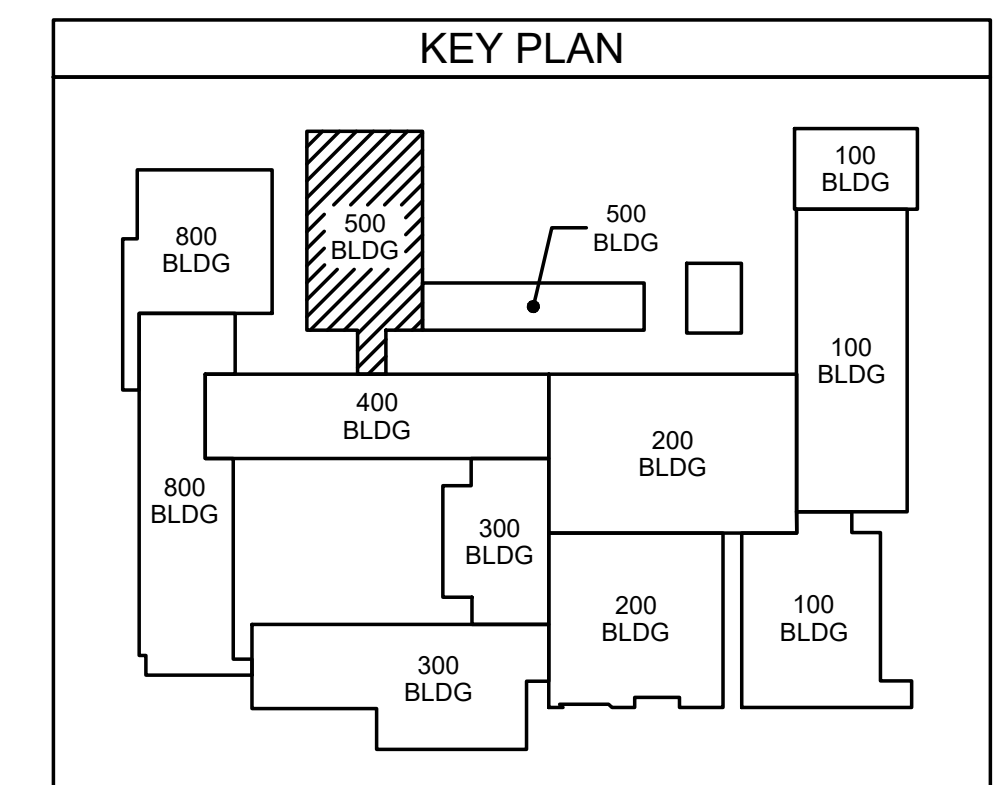
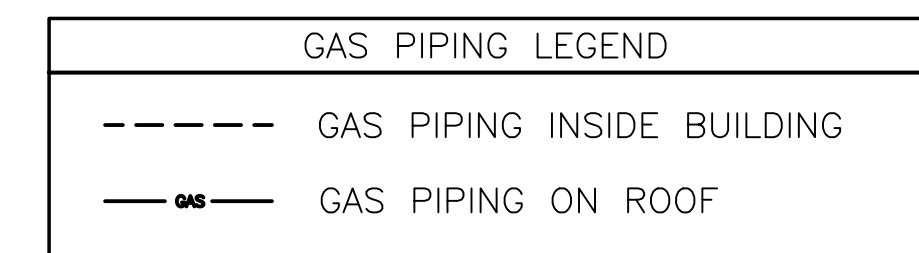
Project No. 22112
Date: 03 Oct 2023
Drawing No. **M 501**



500 CLASSROOM WING
502.2 PLATFORM GAS PIPING PLAN
SCALE: 1/8" = 1'-0"



500 CLASSROOM WING
502.1 GAS PIPING PLAN
SCALE: 1/8" = 1'-0"



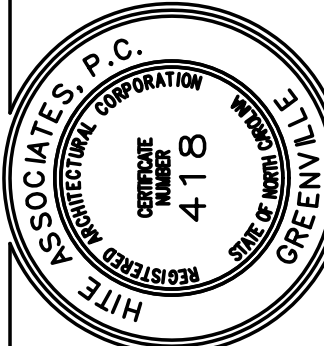
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D. Wilson
10/23/23
WILSON FOU

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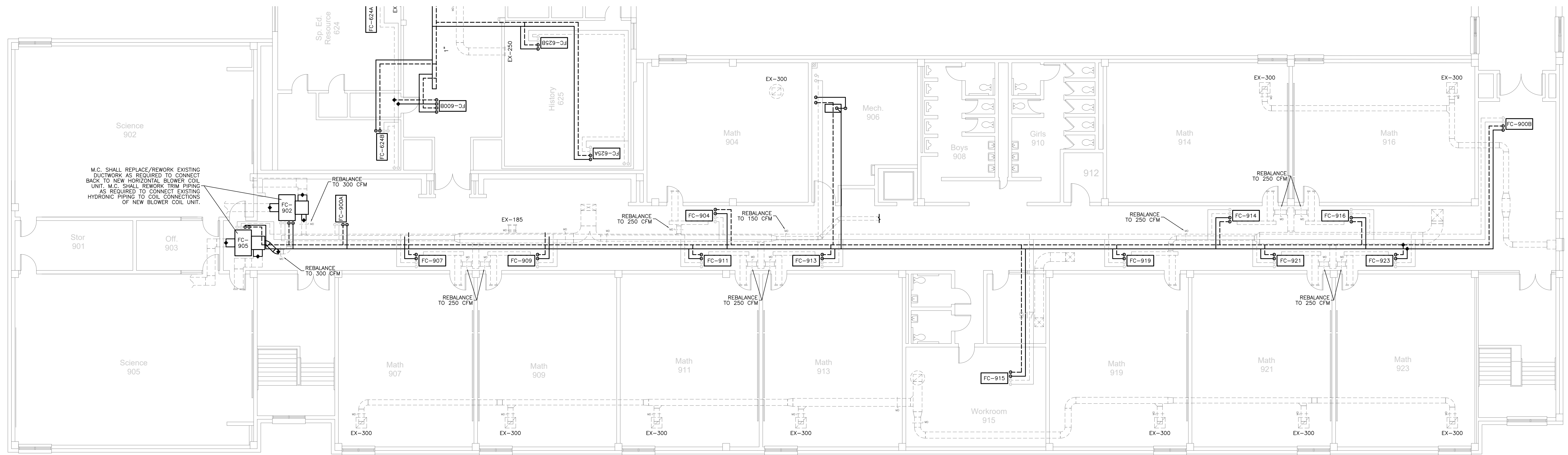
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Project No. 22112

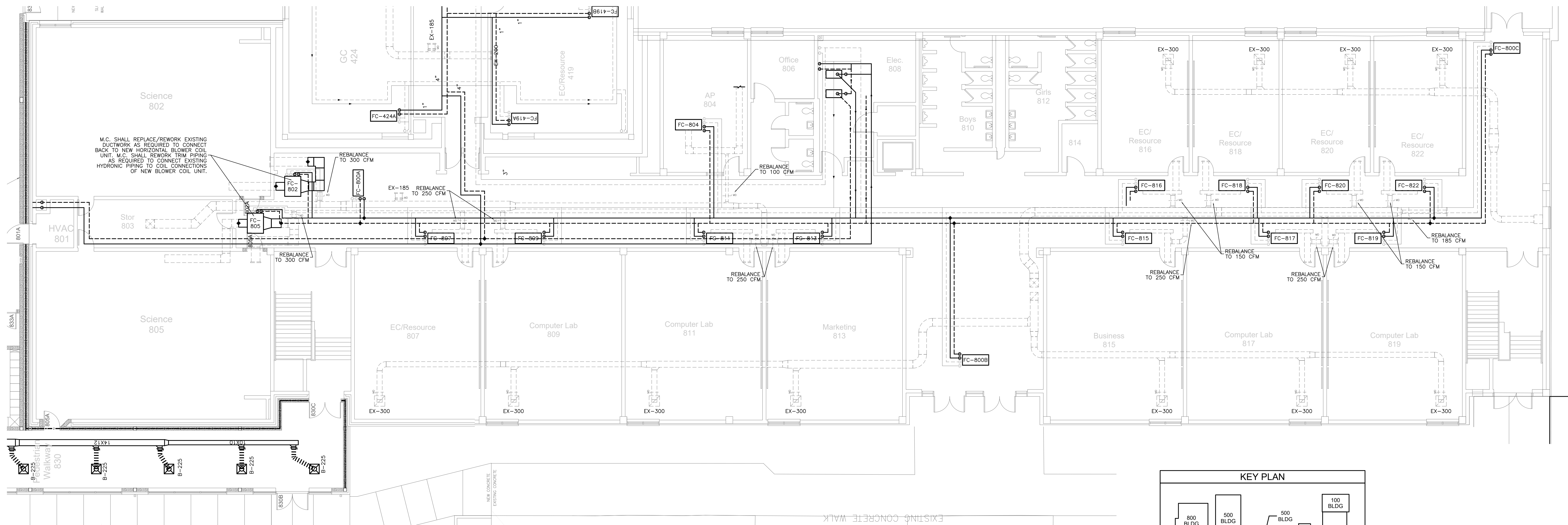
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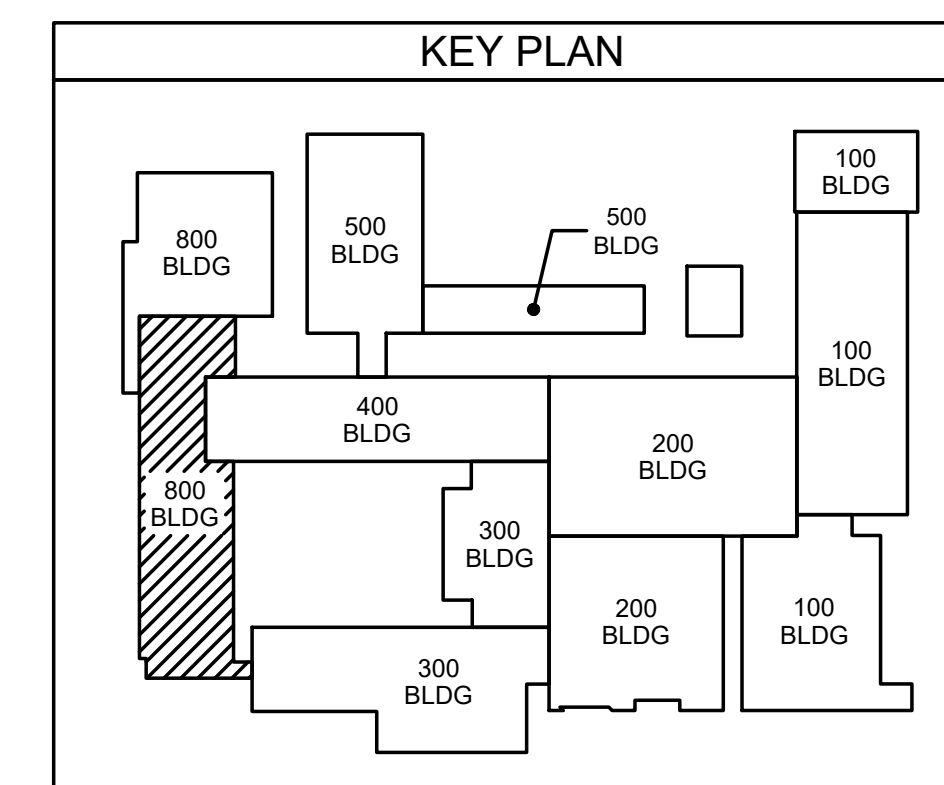
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900 CLASSROOM WING (SECOND FLOOR)
801.2 MECHANICAL PLAN
 SCALE: 1/8" = 1'-0"



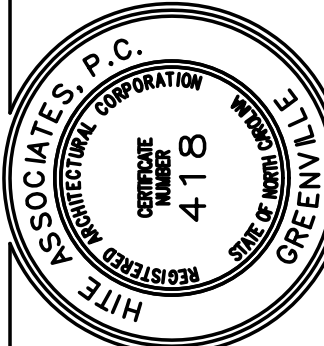
800 CLASSROOM WING (FIRST FLOOR)
801.1 MECHANICAL PLAN
 SCALE: 1/8" = 1'-0"



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D. Hite
 10/23/23
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 No. 50387

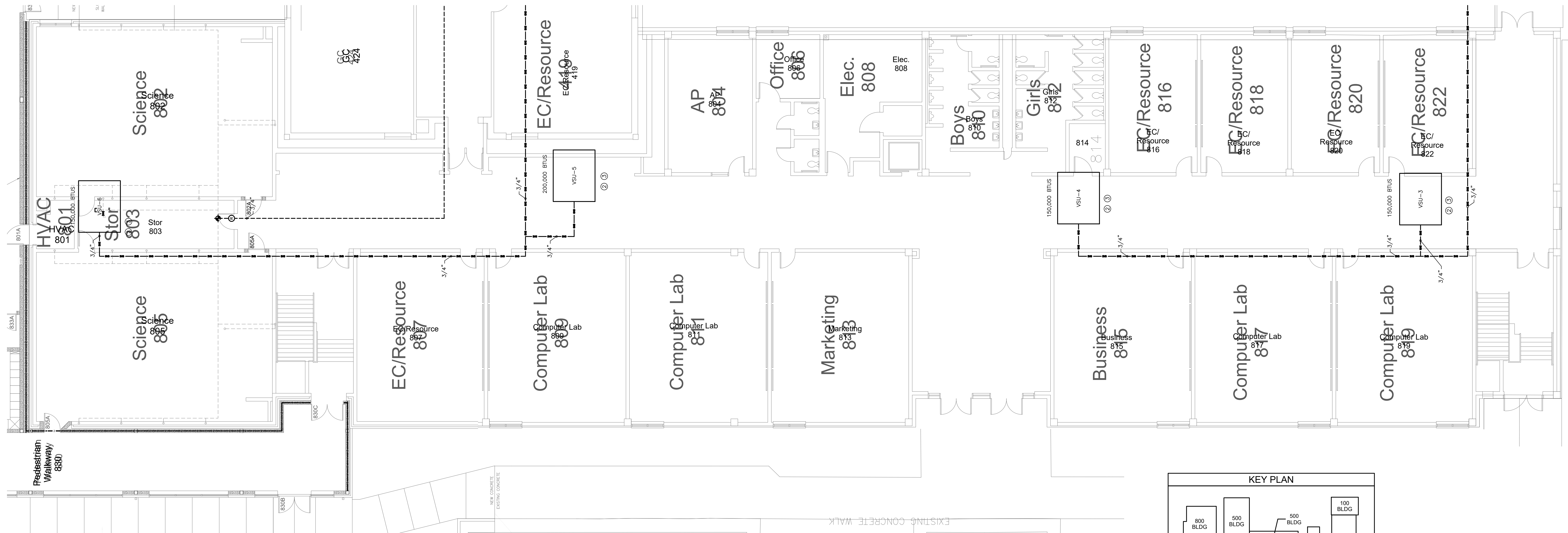


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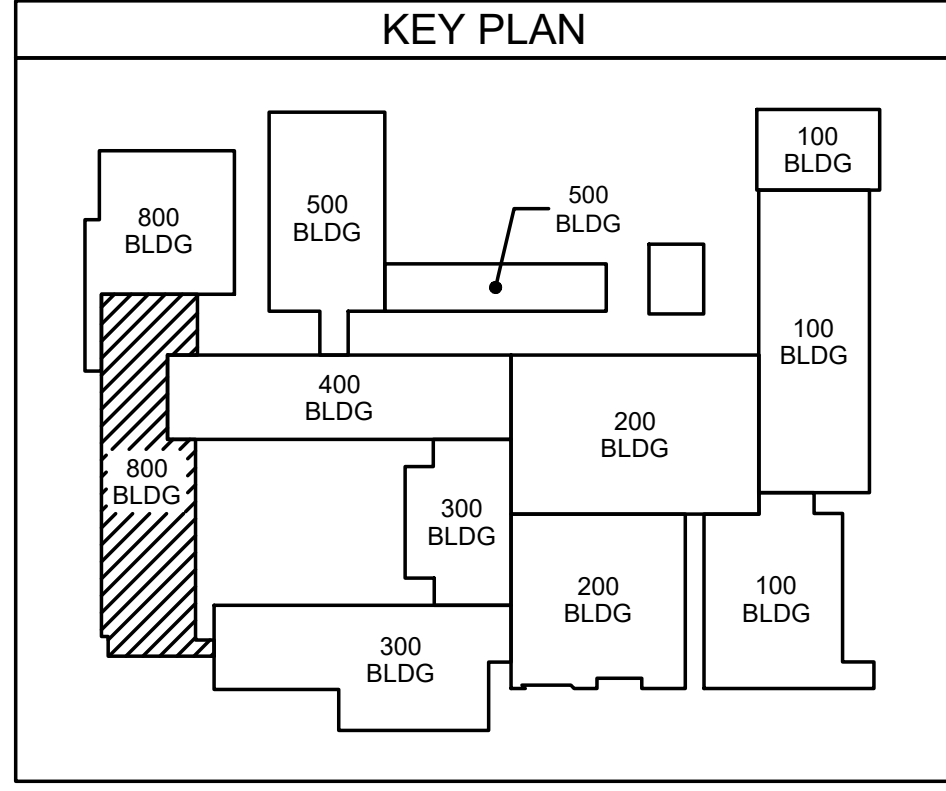
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GAS PIPING LEGEND	
---	GAS PIPING INSIDE BUILDING
—	GAS PIPING ON ROOF



802.1 800 CLASSROOM WING (FIRST FLOOR)
 GAS & ROOF PLAN
 SCALE: 1/8" = 1'-0"

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D. Wilson P.E.
 10/23/23
 HITE ASSOCIATES, P.C.
 GREENVILLE, NC

Project No: 22112
 Date: 03 Oct 2023
 Drawing No: **M 802**

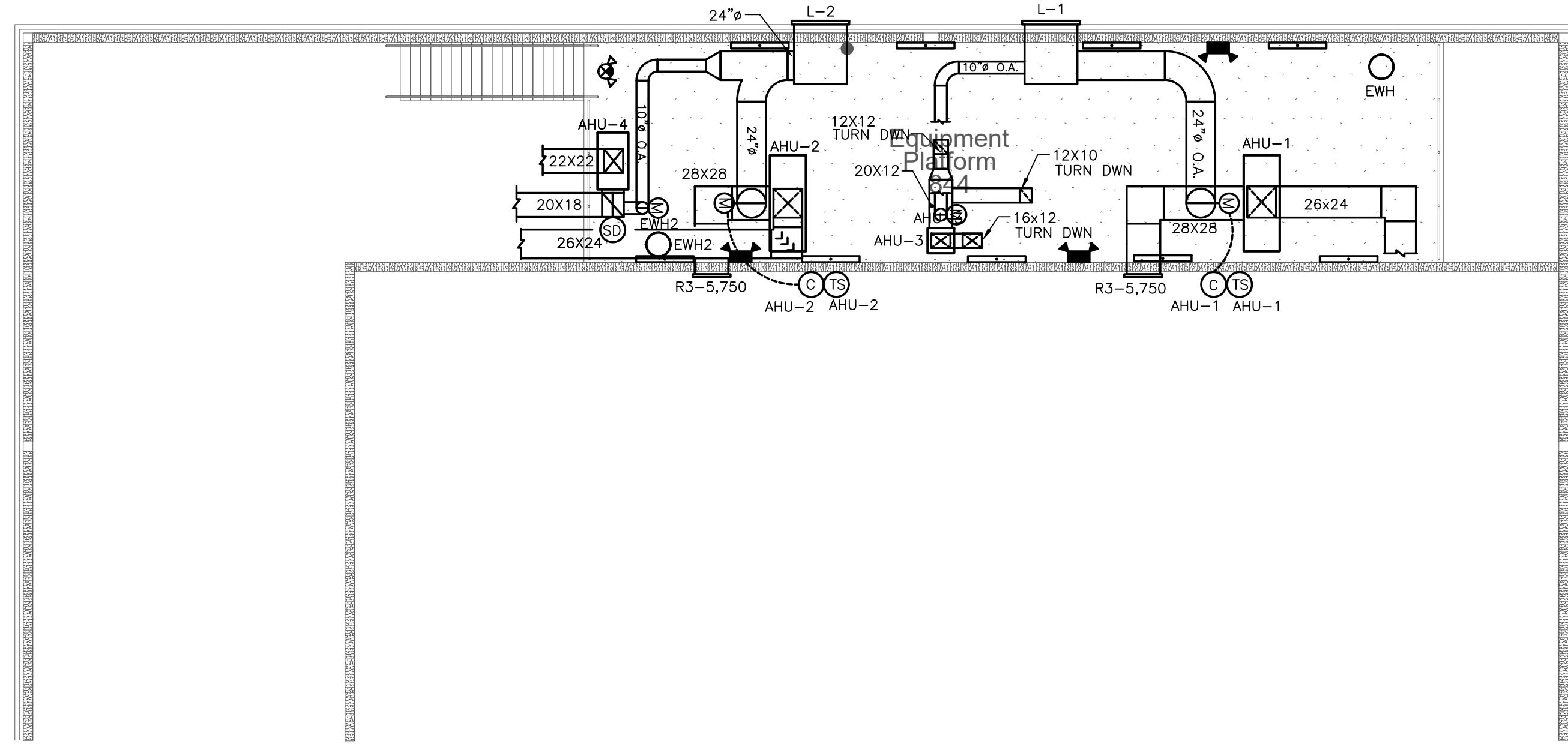
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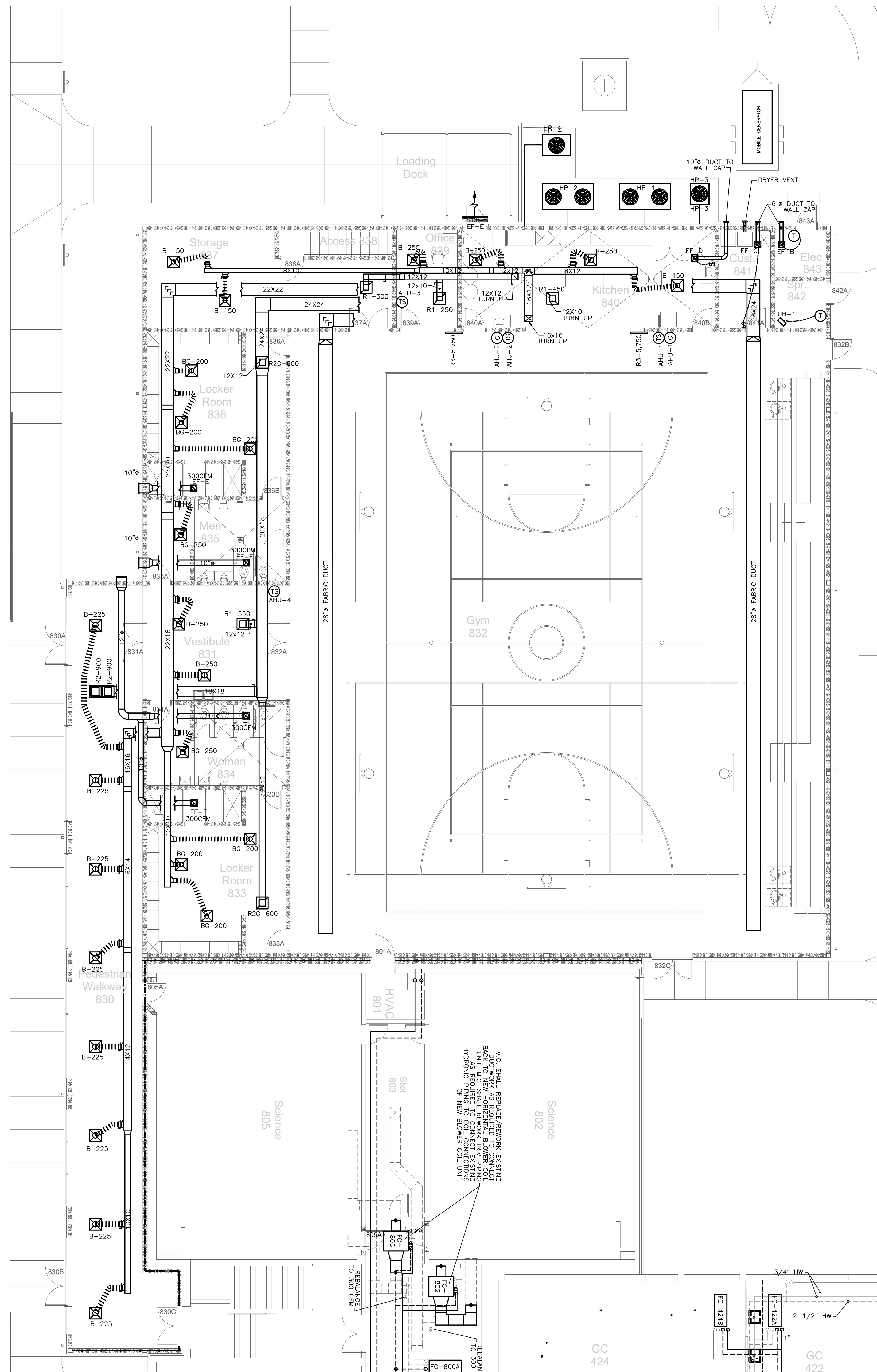
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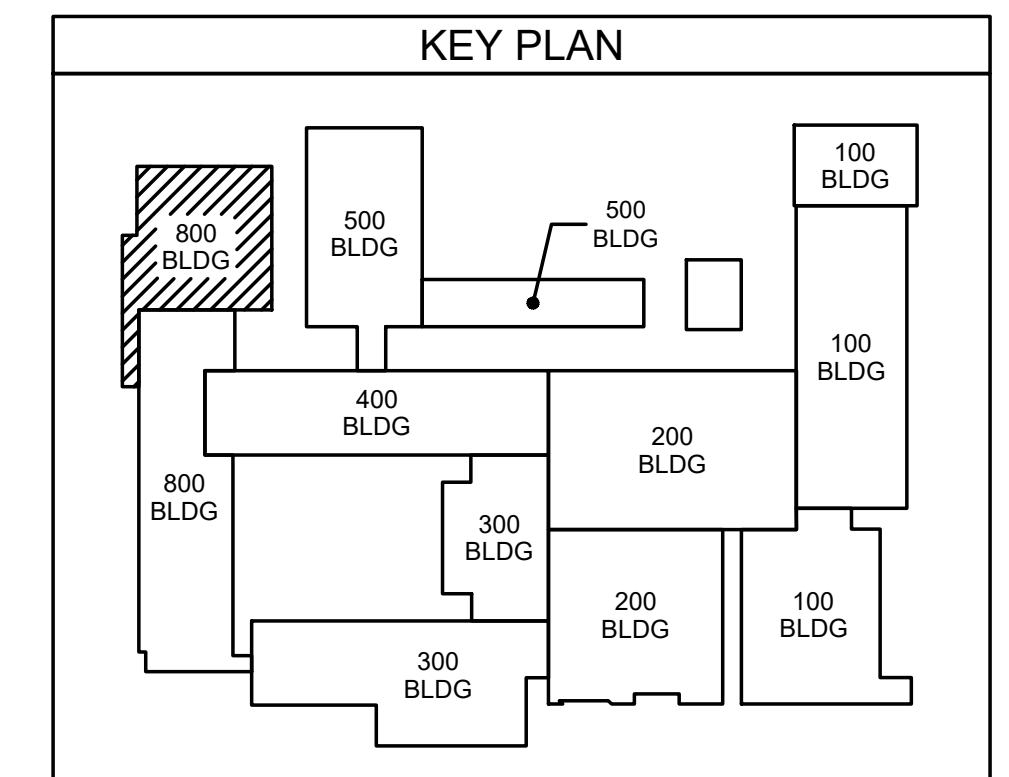
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NEW AUXILIARY GYM
811.2 MECHANICAL PLATFORM PLAN
SCALE: 1/8" = 1'-0"



NEW AUXILIARY GYM
811.1 MECHANICAL PLAN
SCALE: 1/8" = 1'-0"



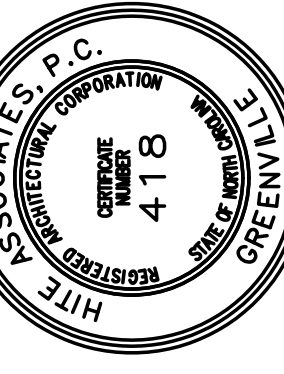
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E-Mail Address: generalmail@engsource.com
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Professional Engineer Seal: D. Hite, P.E., No. 22112, State of North Carolina, expires 10/23/23.

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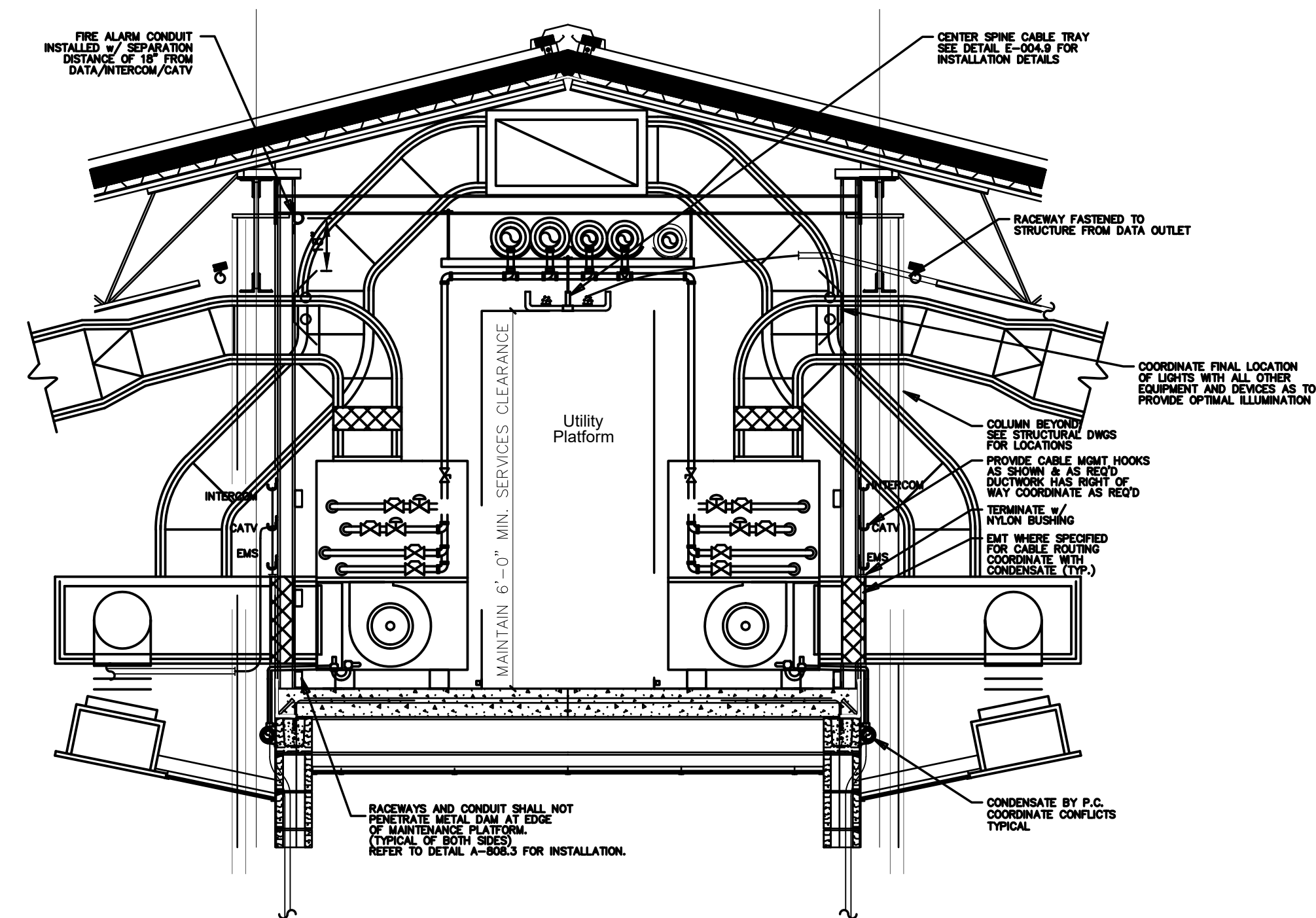
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Project No. 22112
Date: 03 Oct 2023
Drawing No. **M 811**

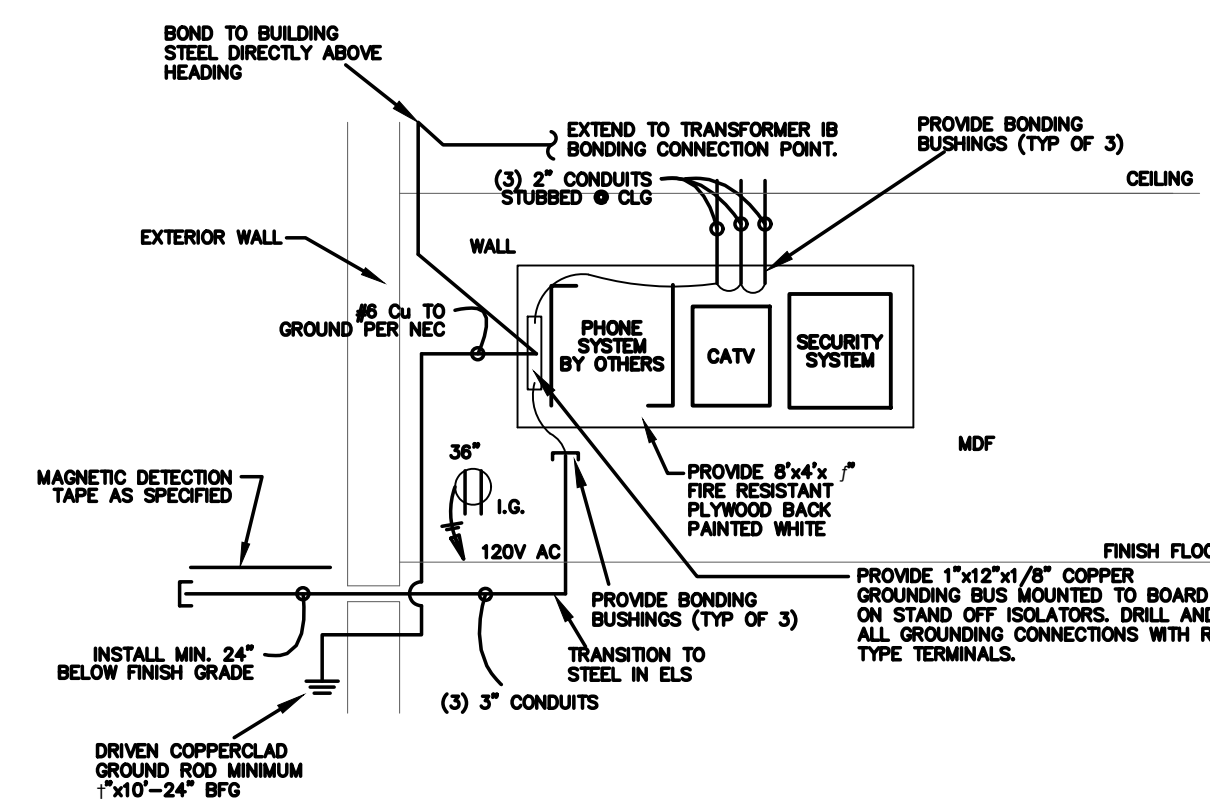


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No.	Date	Revision



002.1 UTILITY PLATFORM CABLE ROUTING DETAIL SCALE: N.T.S.



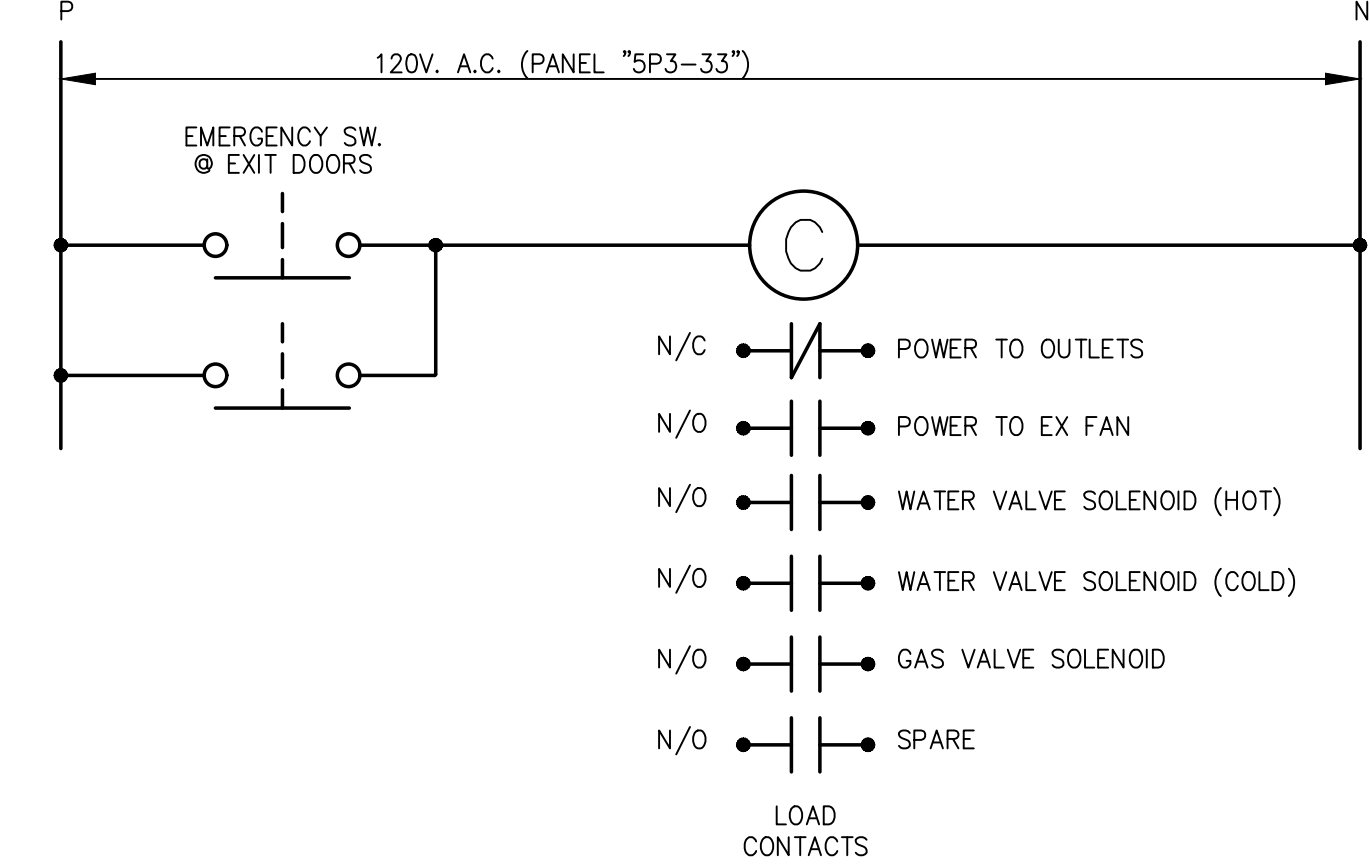
002.8 TELEPHONE SYSTEM RISER SCALE: N.T.S.

ICS SYMBOL LEGEND

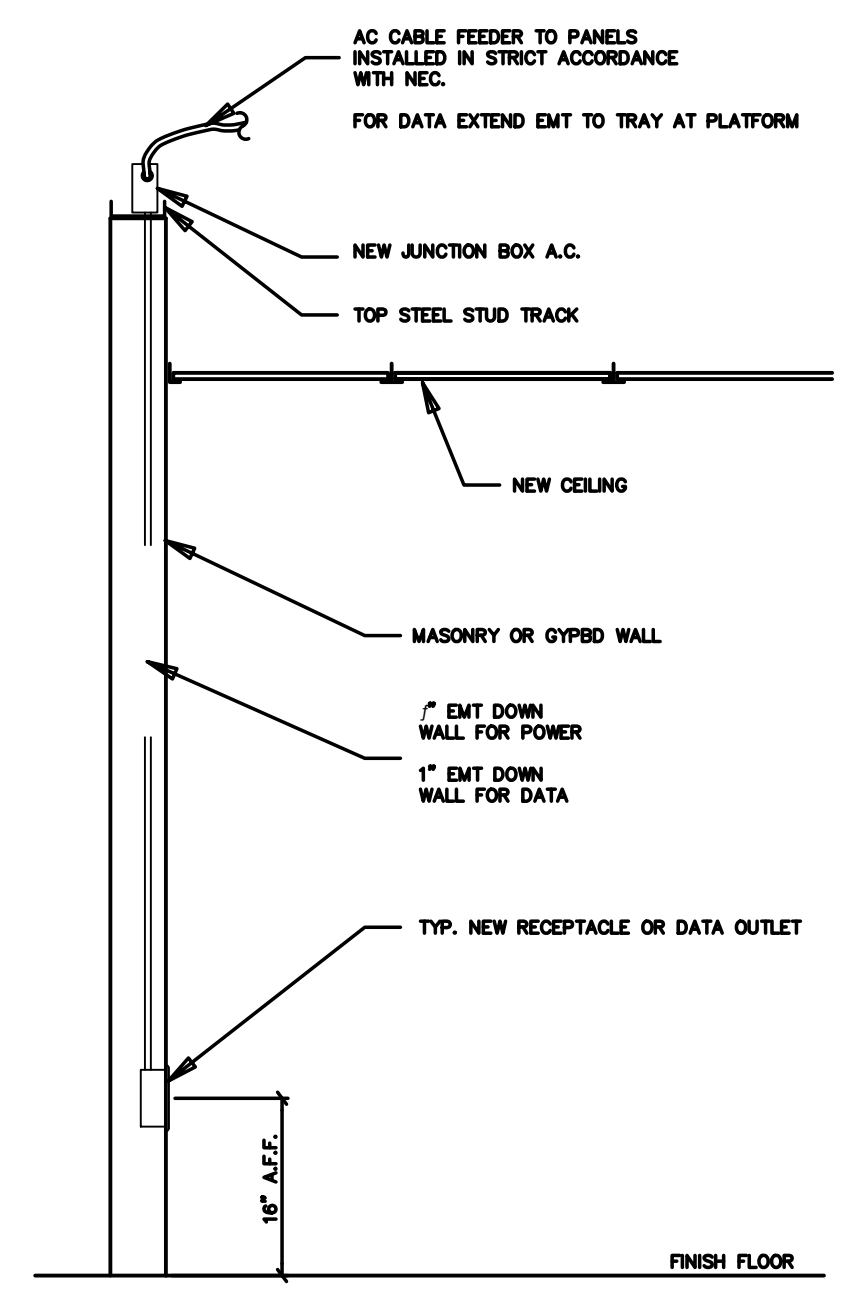
	4-PORT DATA OUTLET - SEE DETAIL
	2-PORT DATA OUTLET - SEE DETAIL
	2-PORT TEACHERS STATION - SEE DETAIL
	INTERACTIVE WHITE BOARD OUTLET - SEE DETAIL
	INTERCOM PHONE OUTLET - SEE DETAIL
	SINGLE PORT DATA OUTLET - SEE DETAIL
	MASTER ADMINISTRATIVE PHONE OUTLET
	CEILING MOUNTED SINGLE PORT DATA OUTLET
	2 PORT TEACHERS STATION OUTLET IN BUILTIN DESK WITH CONDUIT FEED FROM BELOW FLOOR SLAB-SEE DETAIL
	CEILING MOUNTED WIRELESS ACCESS POINT-SEE DETAIL
	DUPLEX OUTLET - 18\"/>

ABBREVIATIONS:
 A.C. ABOVE CEILING
 A.F.F. ABOVE FINISH FLOOR
 EF EXHAUST FAN
 EWH ELECTRIC WATER HEATER
 G.C. GENERAL CONTRACTOR
 P.C. PLUMBING CONTRACTOR
 M.C. MECHANICAL CONTRACTOR
 E.C. ELECTRICAL CONTRACTOR OR EMPTY CONDUIT
 T.C. TECHNOLOGY SYSTEM CONTRACTOR
 B-2 TYPICAL CIRCUIT DESIGNATION: PANEL 'B', BREAKER #2
 S CONDUIT AS SPECIFIED
 NL 24 HOUR NIGHT LIGHT
 U.O.N. UNLESS OTHERWISE NOTED
 U.G. UNDERGROUND

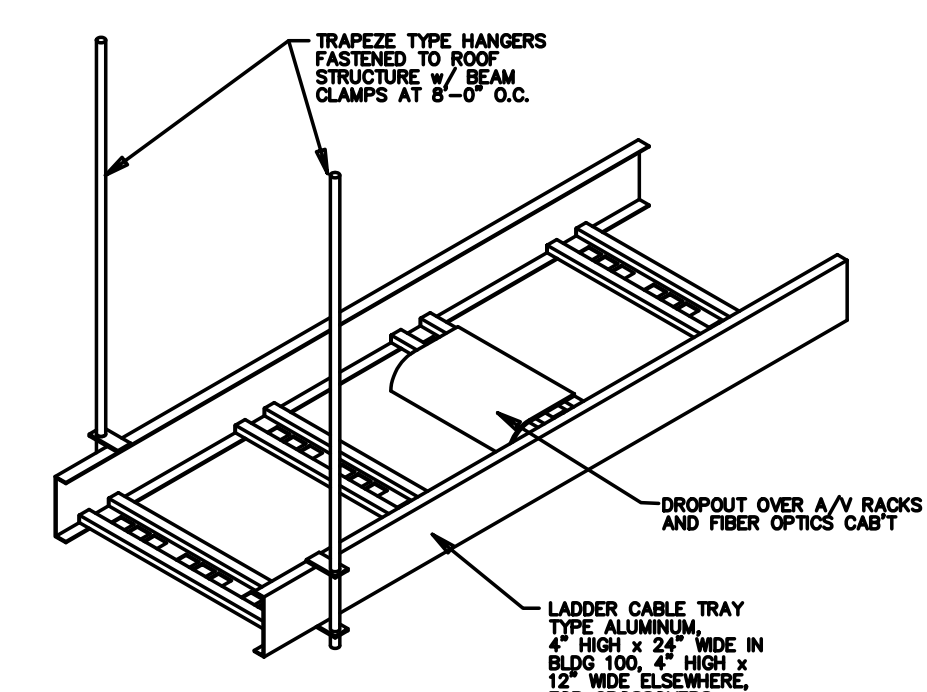
NOTE: LEGEND IS FOR REFERENCE ONLY - SYMBOLS/ABBREVIATIONS SHOWN DO NOT NECESSARILY APPLY TO THIS PROJECT.



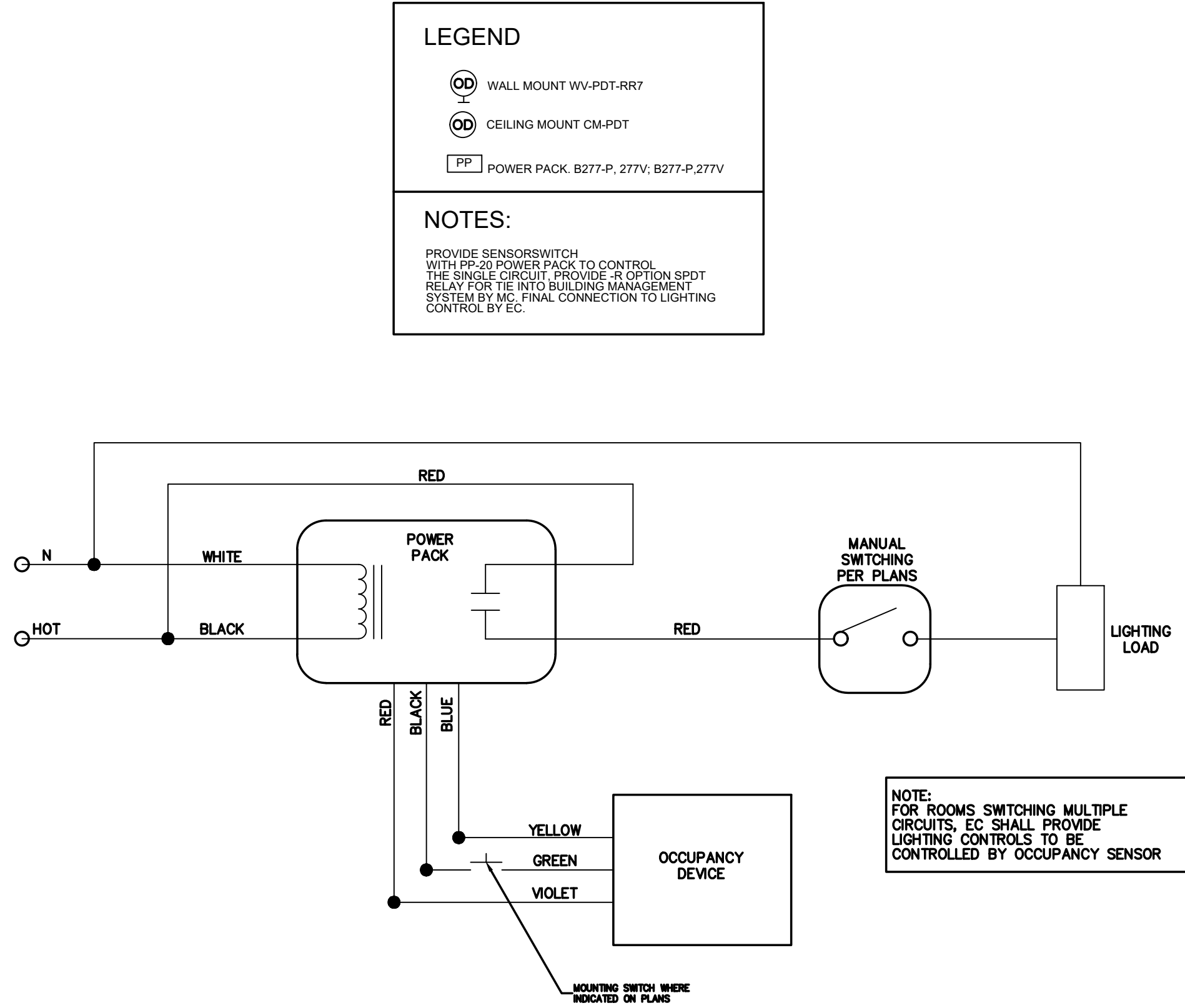
002.9 SCIENCE ROOM CONTACTOR SCALE: NONE



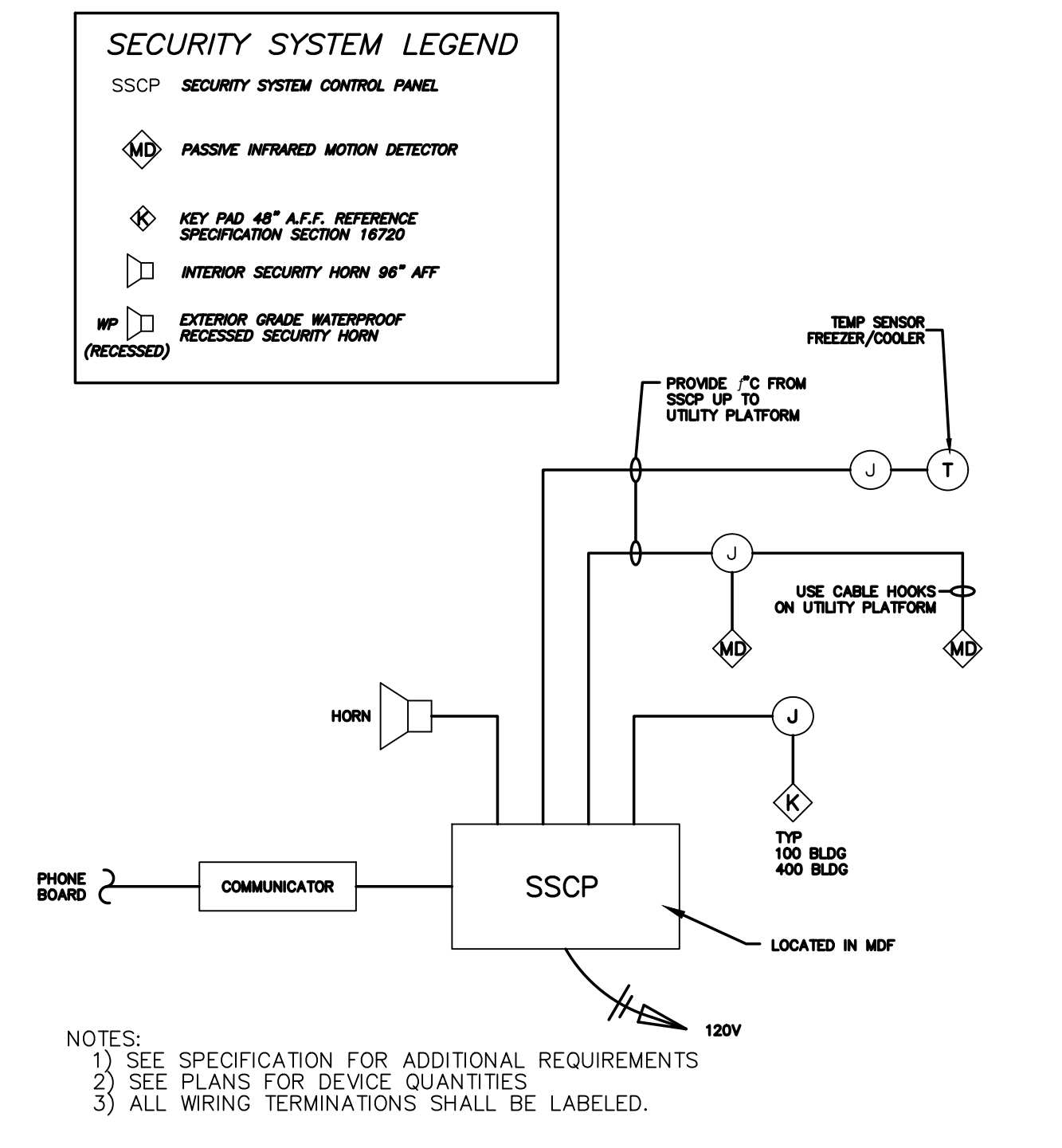
002.10 RACEWAY INSTALLATION SCALE: N.T.S.



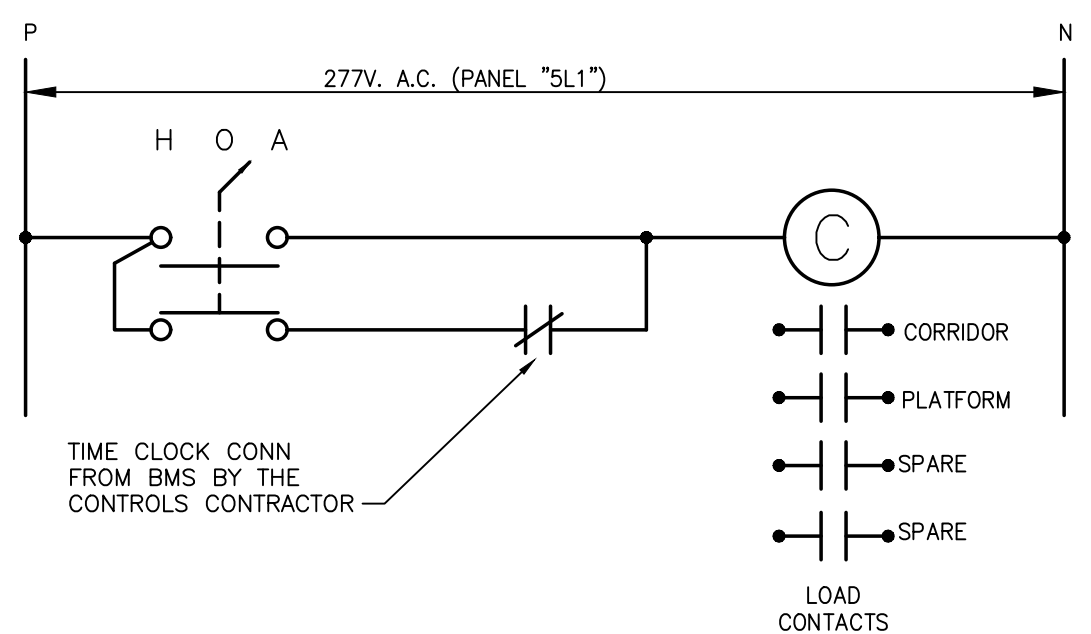
002.11 CABLE TRAY INSTALLATION DETAIL SCALE: N.T.S.



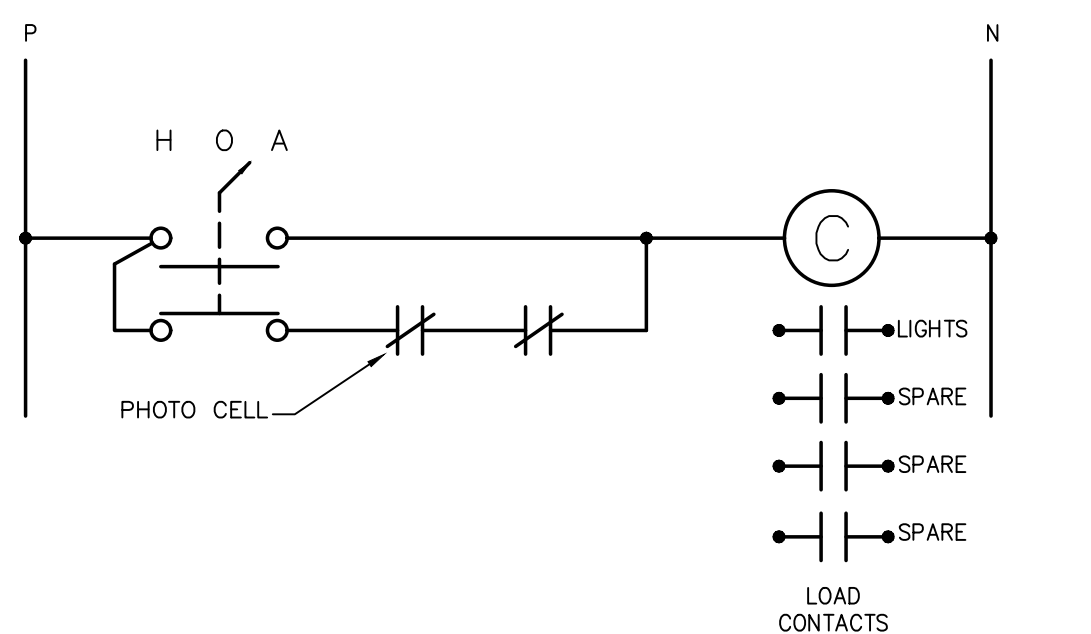
002.7 OCCUPANCY SENSOR CONTROL DIAGRAM SCALE: N.T.S.



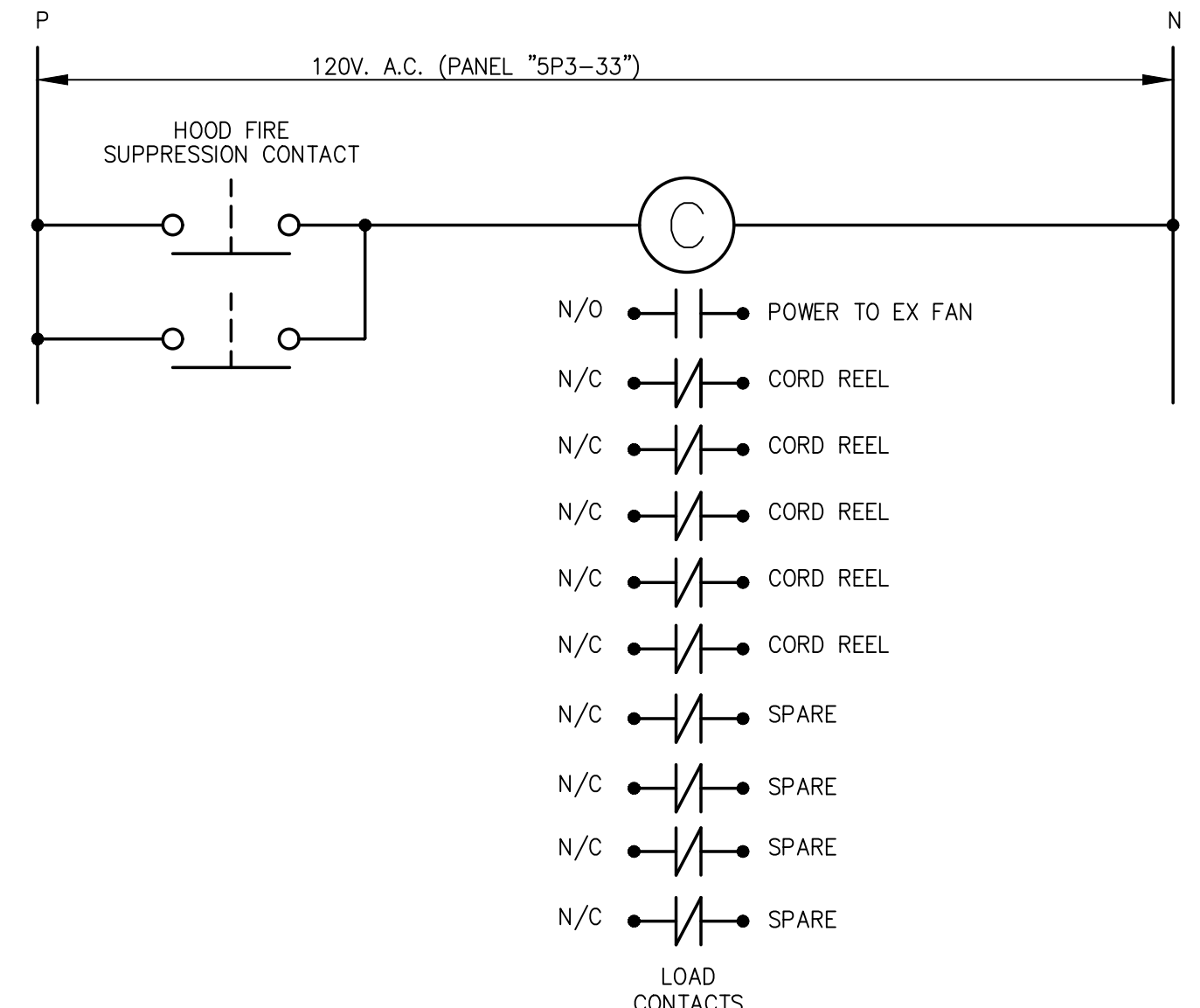
002.6 SECURITY ALARM RISER DIAGRAM SCALE: N.T.S.



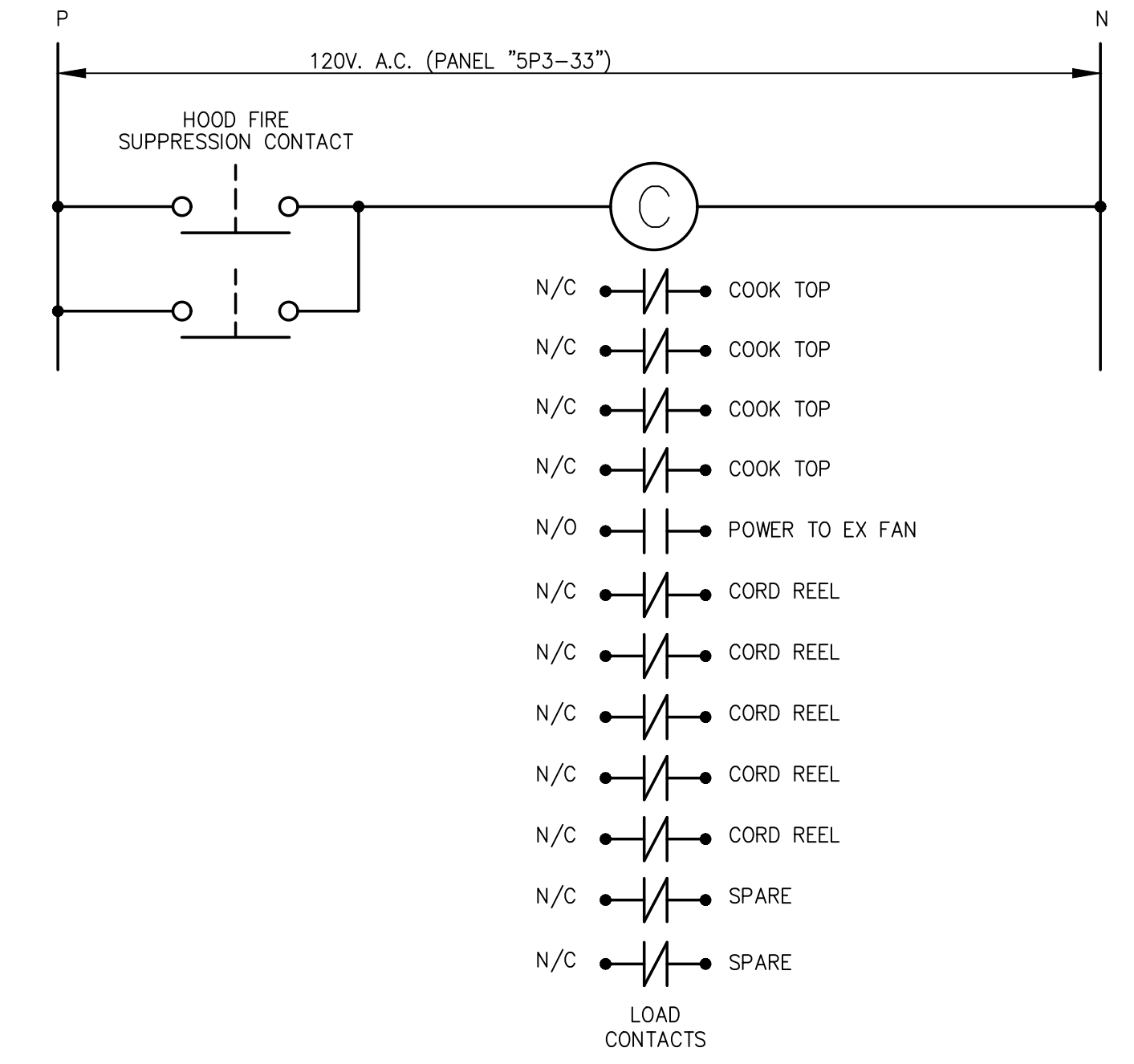
002.2 TYP INTERIOR LIGHTING CONTACTOR SCALE: N.T.S.



002.3 TYP EXTERIOR LIGHTING CONTACTOR SCALE: N.T.S.



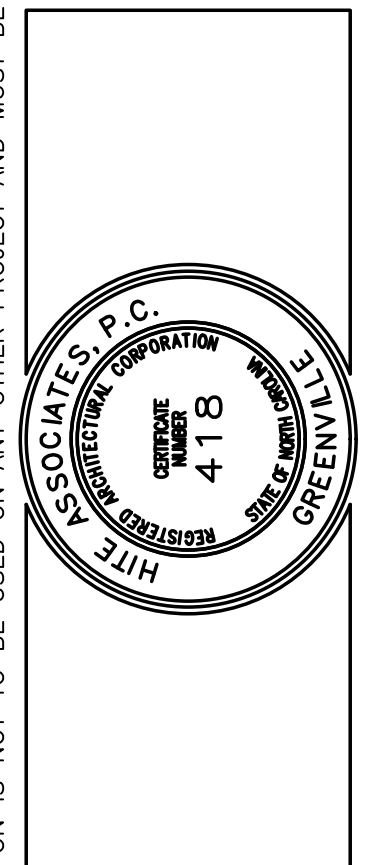
002.4 FOOD LAB 404 CONTACTOR SCALE: NONE



002.5 FOOD LAB 408 CONTACTOR SCALE: NONE

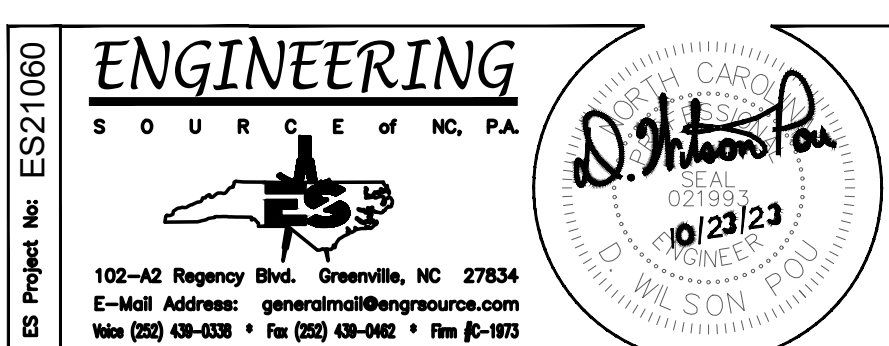
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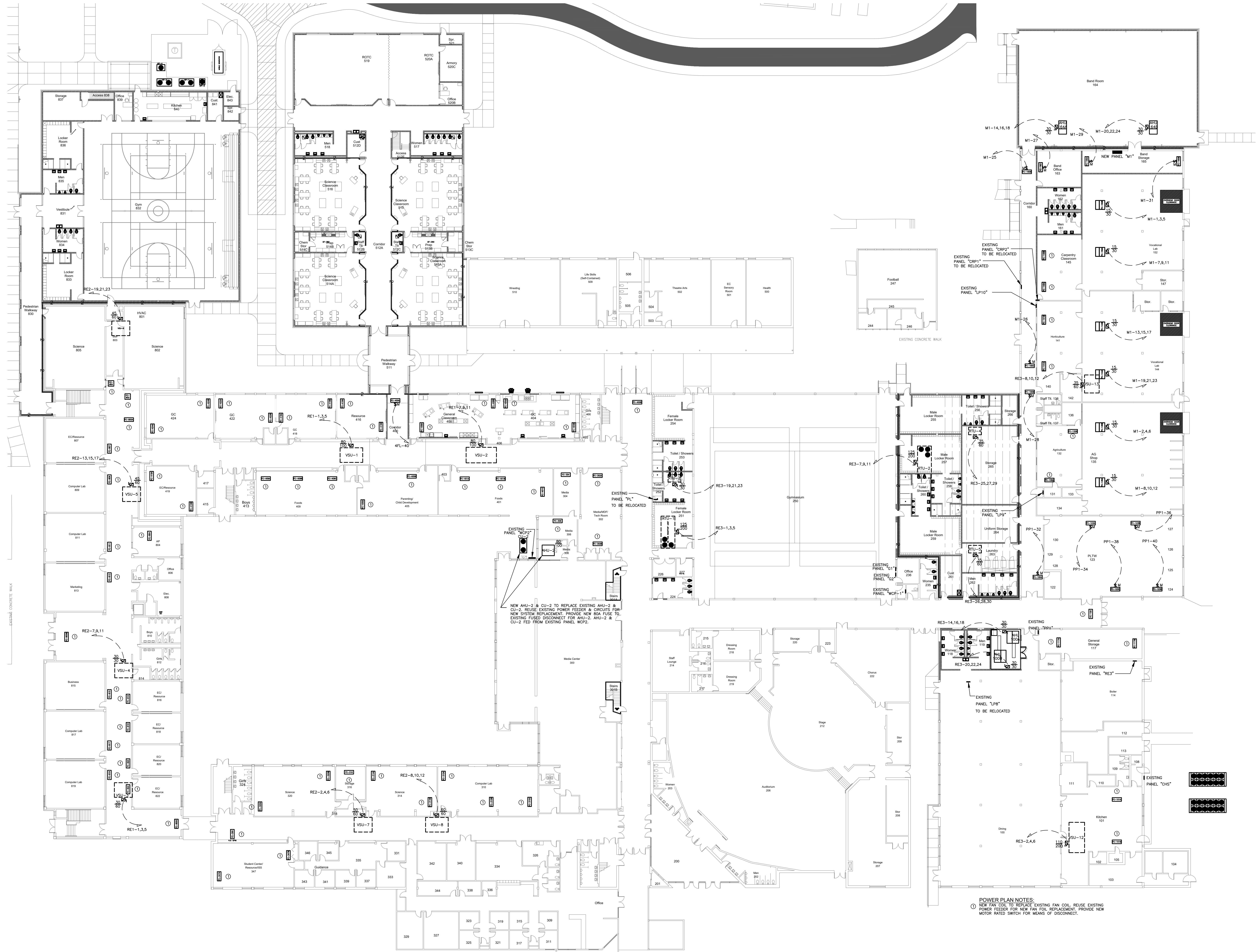


New Additions & Renovations to
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Project No.	22112
Date:	03 Oct 2023
Drawing no.	E 002



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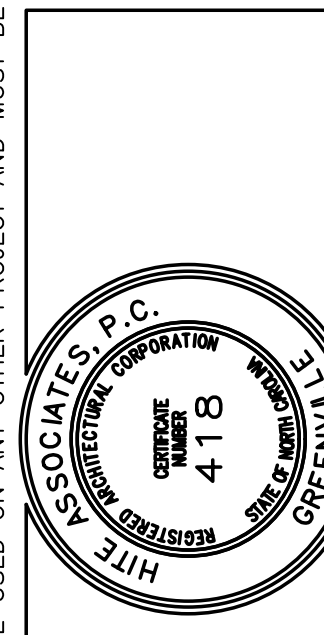
003.1 OVERALL 1ST FLOOR HVAC POWER PLAN
 SCALE: 1" = 20'-0"

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 102-40 Regency Blvd. Greensboro, NC 27434
 E-Mail Address: general@engsource.com
 Tel: (336) 439-0338 • Fax: (336) 439-0462 • TDD: (336) 439-0462

D. Johnson
 10/23/23
 WILSON

No.	Date	Revision

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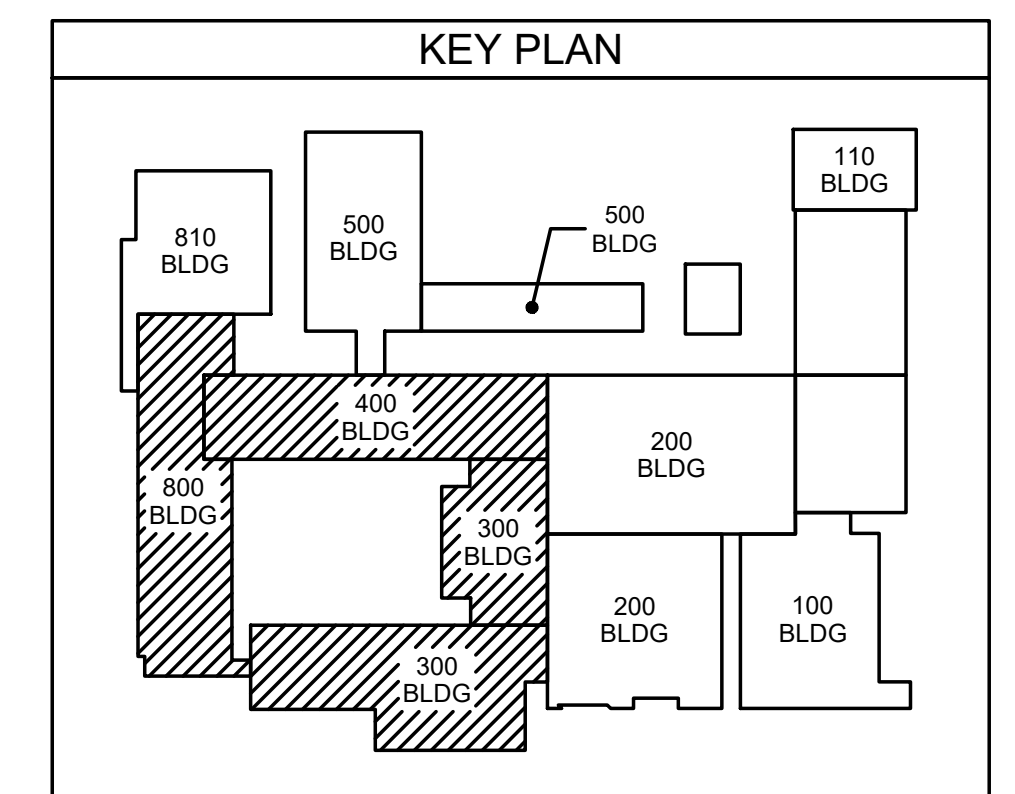
New Additions & Renovations to
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Project No.	22112
Date:	03 Oct 2023
Drawing no.	F 003

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004.1 OVERALL 2ND FLOOR PLAN
SCALE: 1/16" = 1'-0"



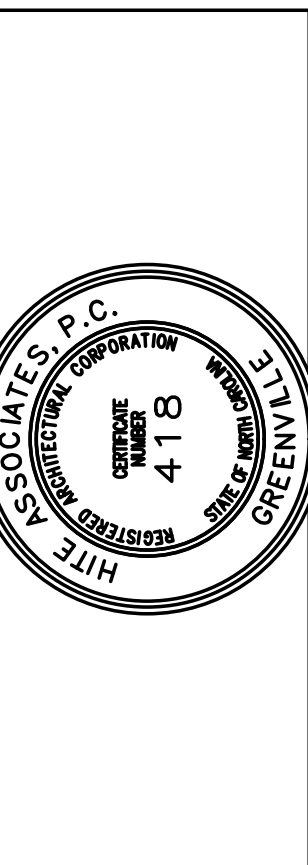
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10/23/23

No.	Date	Revision

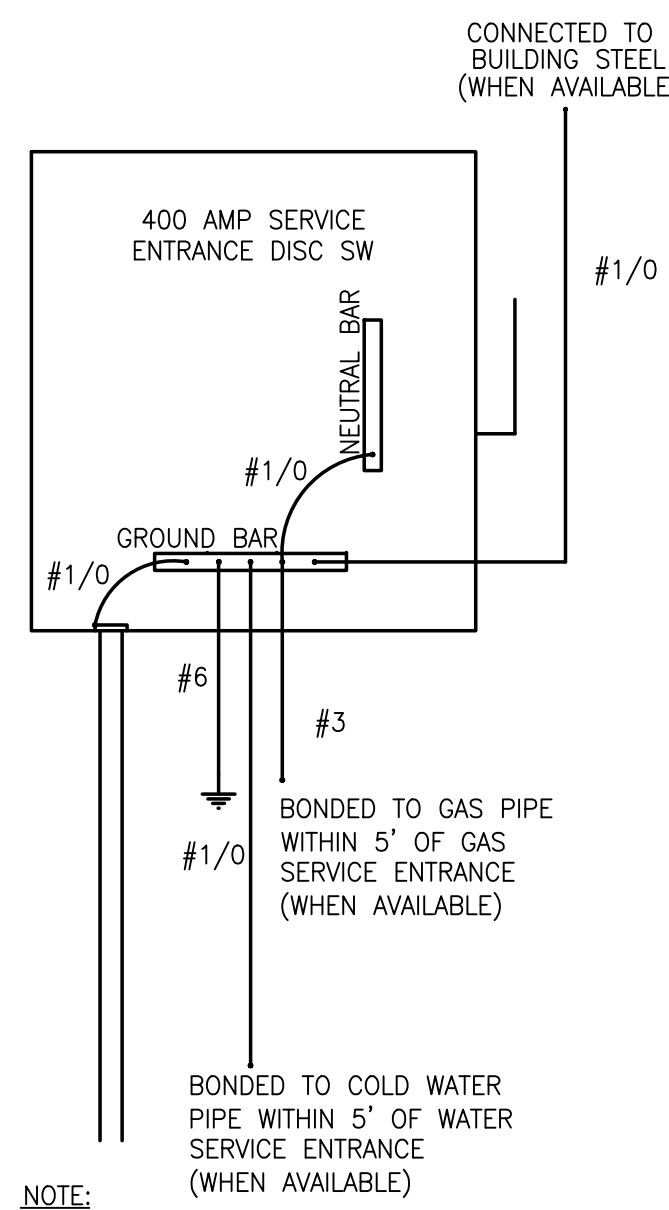
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New Additions & Renovations to
West Carteret High School
4700 Country Club Road, Morehead City NC 28577
Carteret County Schools / North Carolina

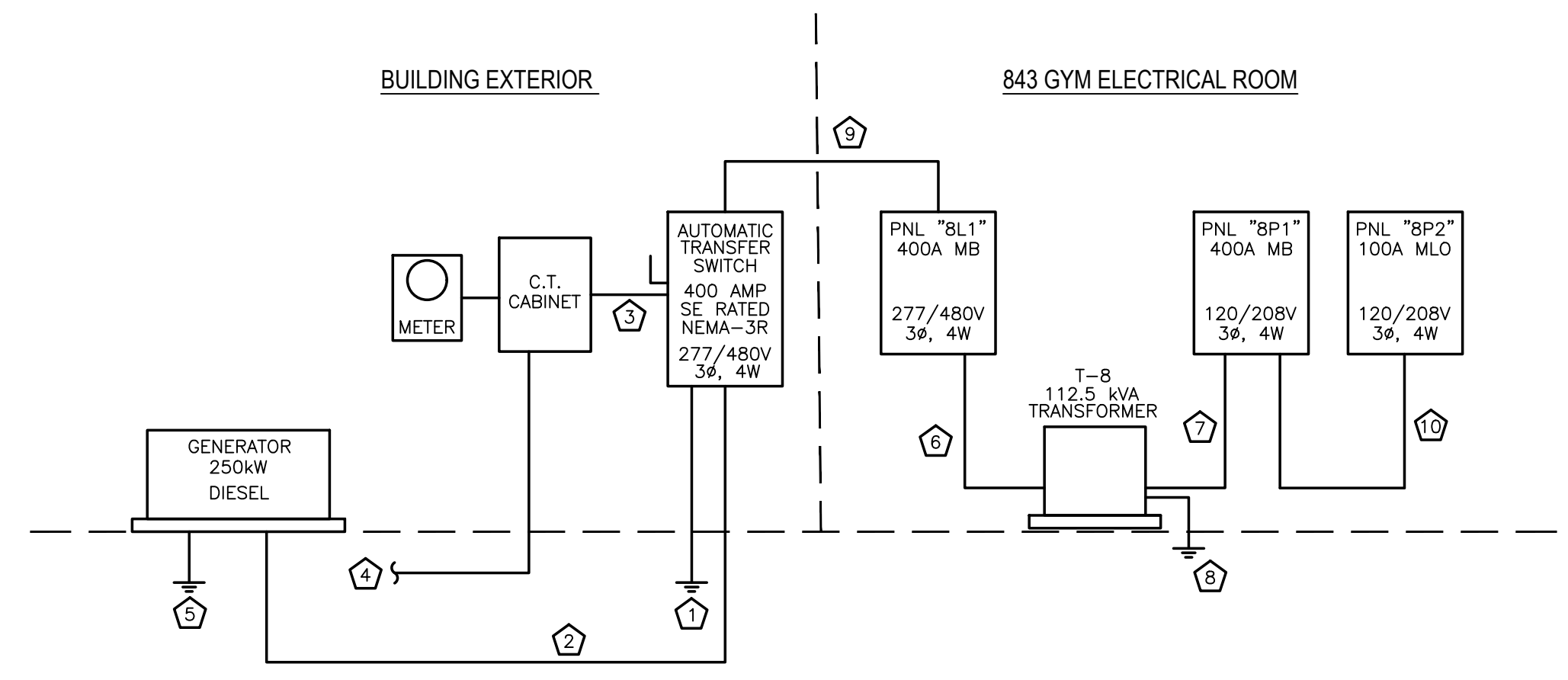
Project No. 22112
Date: 03 Oct 2023
Drawing no. **E 004**

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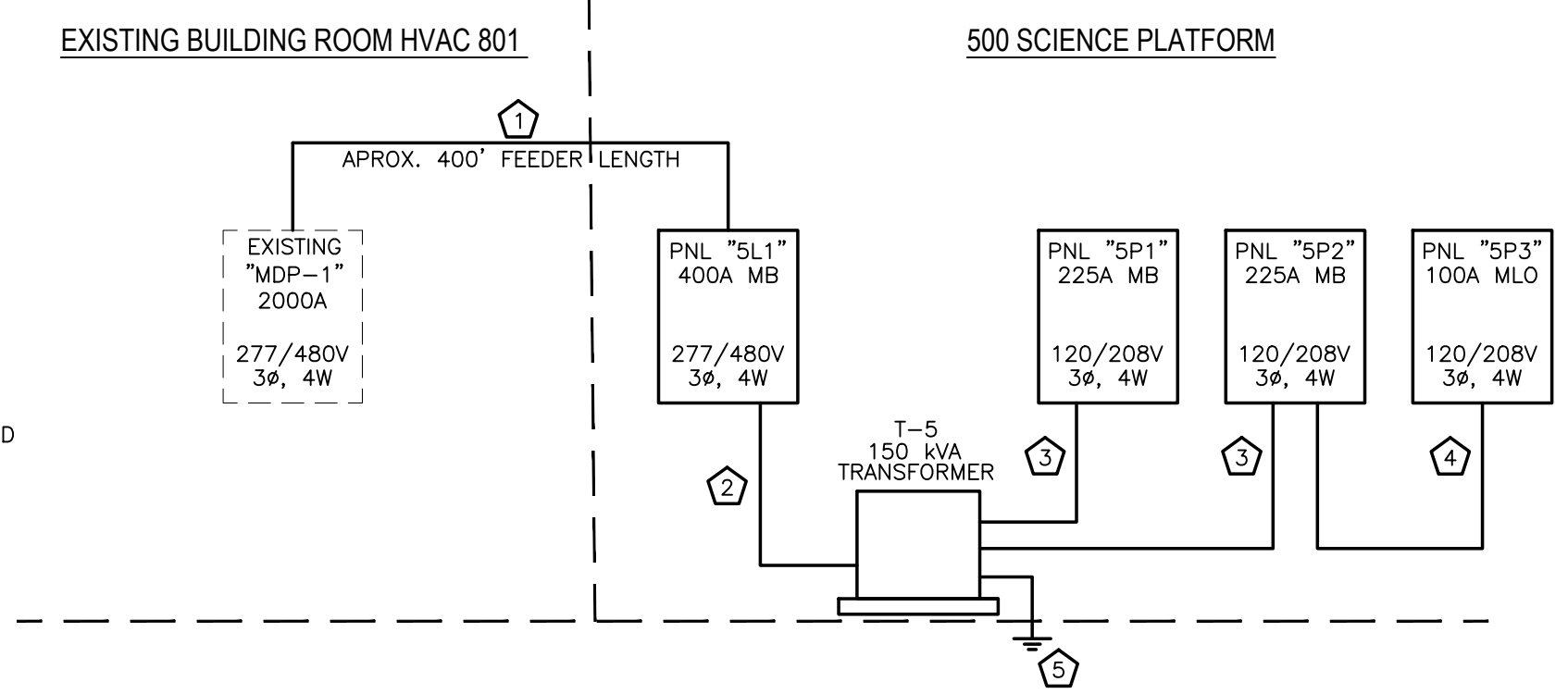
400A SERVICE ENTRANCE GROUNDING DETAIL
SCALE: N.T.S.

- GYM ELECTRICAL RISER NOTES:**
- ① SERVICE ENTRANCE GROUND PER DETAIL AND NEC ARTICLE 250 GROUNDING REQUIREMENTS.
 - ② (2 SETS) 4-#300 KCMIL & 1-#3G IN 2.5°C
 - ③ (2 SETS) 4-#250 KCMIL IN 2.5°C
 - ④ COORDINATE UNDERGROUND SERVICE WITH UTILITY CO. PROVIDE ALL CONDUIT, WIRING, LABOR, AND/OR OTHER WORK AS REQUIRED BY UTILITY CO.
 - ⑤ #6 G. DRIVEN GROUND FOR GENERATOR.
 - ⑥ 4-#4/0 & 1-#4G. IN 2.5°C
 - ⑦ (2 SETS) 4-#4/0 & 1-#1/0G IN 2.5°C
 - ⑧ GROUND PER TRANSFORMER GROUNDING DETAIL AND NEC ARTICLE 250 GROUNDING REQUIREMENTS.
 - ⑨ (2 SETS) 4-#250 KCMIL & 1-#3G IN 2.5°C
 - ⑩ 4-#3 & 1-#8G. IN 1.25°C



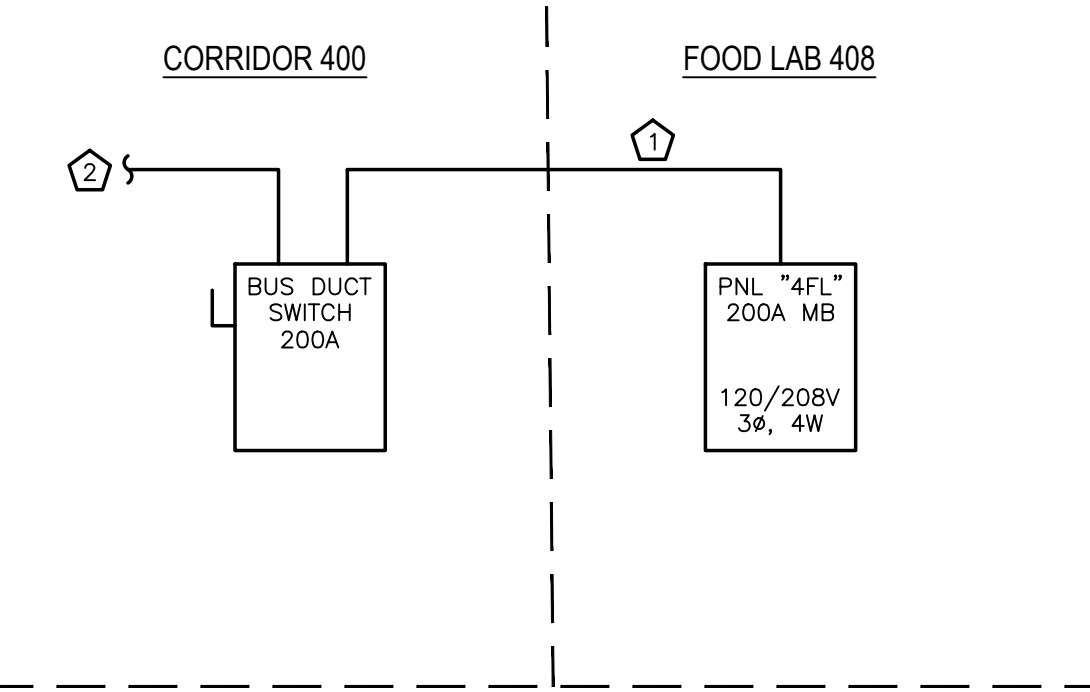
005.1 NEW 500 GYM ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.

- SCIENCE ELECTRICAL RISER NOTES:**
- ① (2 SETS) 4-#300 KCMIL & 1-#2/0G IN 3°C
 - ② 4-#4/0 & 1-#4G. IN 2.5°C
 - ③ 4-#4/0 & 1-#2G IN 2.5°C
 - ④ 4-#3 & 1-#8G. IN 1.25°C
 - ⑤ GROUND PER TRANSFORMER GROUNDING DETAIL AND NEC ARTICLE 250 GROUNDING REQUIREMENTS.



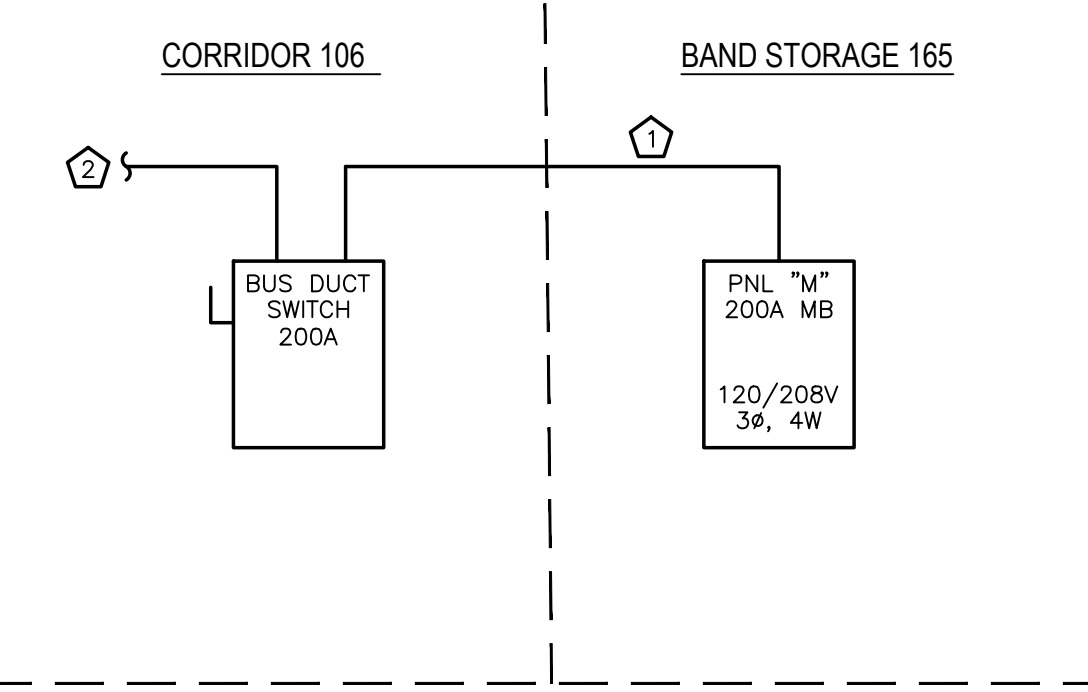
005.2 NEW 400 SCIENCE ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.

- SCIENCE ELECTRICAL RISER NOTES:**
- ① 4-#3/0 & 1-#4G. IN 2.5°C
 - ② TIE TO EXISTING 208V 3φ BUS DUCT LOCATED IN CEILING.



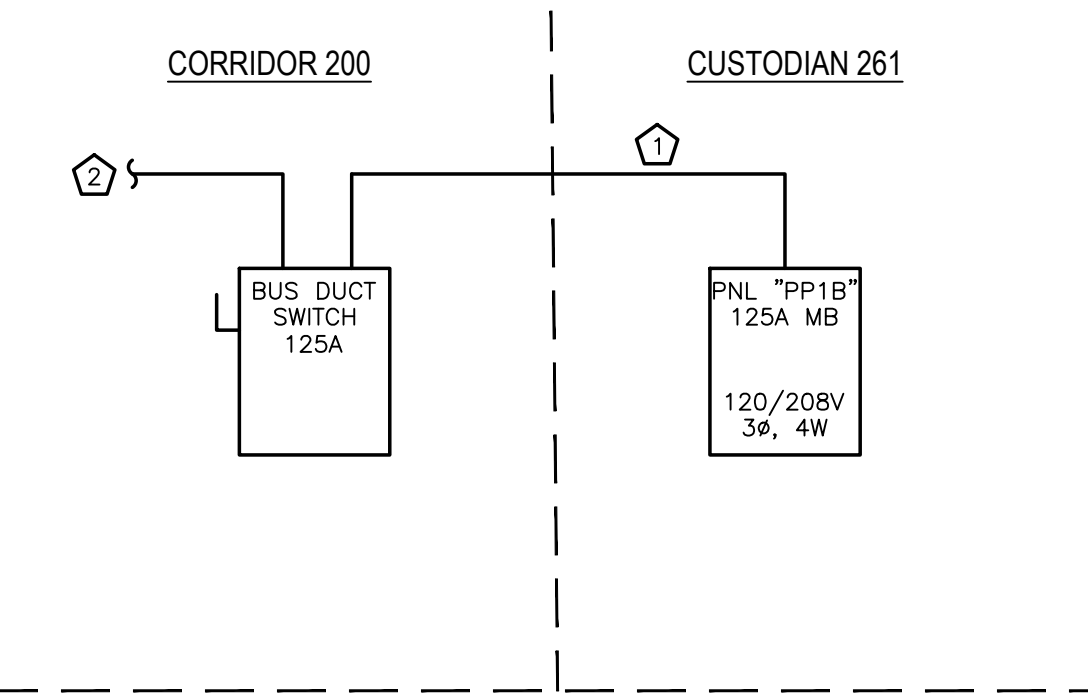
005.5 400 WING FOOD LAB ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.

- SCIENCE ELECTRICAL RISER NOTES:**
- ① 4-#3/0 & 1-#4G. IN 2.5°C
 - ② TIE TO EXISTING 208V 3φ BUS DUCT LOCATED IN CEILING.



005.3 100 WING ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.

- SCIENCE ELECTRICAL RISER NOTES:**
- ① 4-#1 & 1-#6G. IN 2°C
 - ② TIE TO EXISTING 208V 3φ BUS DUCT LOCATED IN CEILING.



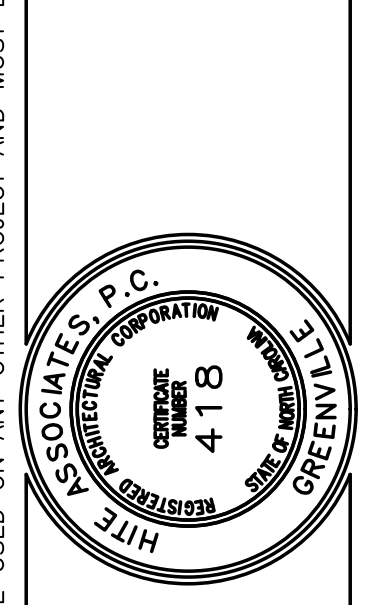
005.4 200 WING ELECTRICAL RISER DIAGRAM
SCALE: N.T.S.

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D. Wilson
10/23/23

Rev	Date	Revision

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New Additions & Renovations to
West Carteret High School
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Carteret County Schools / North Carolina

Project No.	22112
Date:	03 Oct 2023
Drawing no.	E 005

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PANELBOARD SCHEDULE - "8P2"
MAIN: 100 MLO
VOLTAGE: 208/120
PHASE: 3
WIRE: 4
MOUNTING SURFACE
AIC: 22,000
BUS BARS: COPPER

8L1 DEMAND CALCS
LIGHTING 9.00 KVA X 125 % = 11.2 KVA
RECEPTAC TOTAL 0.60 KVA
1ST 10.00 KVA X 100 % = 10.0 KVA
REMAIN 0.00 KVA X 50 % = 0.0 KVA

8P2 DEMAND CALCS
LIGHTING 0.00 KVA X 125 % = 0.0 KVA
RECEPTAC TOTAL 0.60 KVA
1ST 10.00 KVA X 100 % = 10.0 KVA
REMAIN 0.00 KVA X 50 % = 0.0 KVA

PANELBOARD SCHEDULE - "8L1"
MAIN: 400 MCB
VOLTAGE: 480/277
PHASE: 3
WIRE: 4
MOUNTING SURFACE
AIC: 62,000
BUS BARS: COPPER

T-8 DEMAND CALCS
LIGHTING 0.00 KVA X 125 % = 0.0 KVA
RECEPTAC TOTAL 8.00 KVA
1ST 10.00 KVA X 100 % = 10.0 KVA
REMAIN 0.00 KVA X 50 % = 0.0 KVA

PANELBOARD SCHEDULE - "TRANSFORMER T-8"
MAIN: 200
VOLTAGE: 208/120
PHASE: 3
WIRE: 4
MOUNTING SURFACE
AIC: 22,000
BUS BARS: COPPER

PANELBOARD SCHEDULE - "4FL"
MAIN: 200 MCB
VOLTAGE: 208/120
PHASE: 3
WIRE: 4
MOUNTING SURFACE
AIC: 22,000
BUS BARS: COPPER

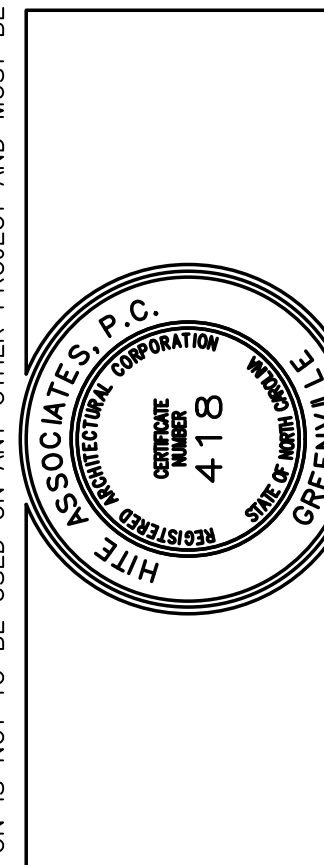
8P1 DEMAND CALCS
LIGHTING 0.00 KVA X 125 % = 0.0 KVA
RECEPTAC TOTAL 8.00 KVA
1ST 10.00 KVA X 100 % = 10.0 KVA
REMAIN 0.00 KVA X 50 % = 0.0 KVA

PANELBOARD SCHEDULE - "8P1"
MAIN: 400 MCB
VOLTAGE: 208/120
PHASE: 3
WIRE: 4
MOUNTING SURFACE
AIC: 22,000
BUS BARS: COPPER

4FL DEMAND CALCS
LIGHTING 0.00 KVA X 125 % = 0.0 KVA
RECEPTAC TOTAL 5.00 KVA
1ST 10.00 KVA X 100 % = 10.0 KVA
REMAIN 0.00 KVA X 50 % = 0.0 KVA

Revision table with columns for No., Date, and Description.

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New Additions & Renovations to West Carteret High School
4700 Country Club Road, Morehead City NC 28577
Carteret County Schools / North Carolina

Project No. 22112

Date: 03 Oct 2023

Drawing No. E 006

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PANELBOARD SCHEDULE - "5P3"
MAIN: 100 MLO
VOLTAGE: 208/120
PHASE: 3
WIRE: 4
MOUNTING SURFACE:
AIC: 22,000
BUS BARS: COPPER

5L1
LIGHTING 14.80 KVA X 125 % = 18.5 KVA
RECEPTAC TOTAL 23.40 KVA
1ST 10.00 KVA X 100 % = 10.0 KVA
REMAIN 13.40 KVA X 50 % = 6.7 KVA

PANELBOARD SCHEDULE - "5L1"
MAIN: 400 MCB
VOLTAGE: 480/277
PHASE: 3
WIRE: 4
MOUNTING SURFACE:
AIC: 22,000
BUS BARS: COPPER

5P3 DEMAND CALCS
LIGHTING 0.00 KVA X 125 % = 0.0 KVA
RECEPTAC TOTAL 2.00 KVA
1ST 10.00 KVA X 100 % = 2.0 KVA
REMAIN 0.00 KVA X 50 % = 0.0 KVA

PANELBOARD SCHEDULE - "TRANSFORMER T-5"
MAIN: 200
VOLTAGE: 480/277
PHASE: 3
WIRE: 4
MOUNTING SURFACE:
AIC: 22,000
BUS BARS: COPPER

1P1 DEMAND CALCS
LIGHTING 6.78 KVA X 125 % = 8.5 KVA
RECEPTAC TOTAL 9.80 KVA
1ST 10.00 KVA X 100 % = 9.8 KVA
REMAIN 0.00 KVA X 50 % = 0.0 KVA

EXISTING PANELBOARD SCHEDULE - "1P1"
MAIN: 100A MLO
VOLTAGE: 208/120
PHASE: 3
WIRE: 4
MOUNTING SURFACE:
AIC: 22,000
BUS BARS: COPPER

PANELBOARD SCHEDULE - "5P1"
MAIN: 225 MCB
VOLTAGE: 208/120
PHASE: 3
WIRE: 4
MOUNTING SURFACE:
AIC: 22,000
BUS BARS: COPPER

5P1 DEMAND CALCS
LIGHTING 4.50 KVA X 125 % = 5.6 KVA
RECEPTAC TOTAL 8.00 KVA
1ST 10.00 KVA X 100 % = 8.0 KVA
REMAIN 0.00 KVA X 50 % = 0.0 KVA

NEW PANELBOARD SCHEDULE - "M1"
MAIN: 200 MCB
VOLTAGE: 208/120
PHASE: 3
WIRE: 4
MOUNTING SURFACE:
AIC: 22,000
BUS BARS: COPPER

M1 DEMAND CALCS
LIGHTING 0.00 KVA X 125 % = 0.0 KVA
RECEPTAC TOTAL 0.00 KVA
1ST 10.00 KVA X 100 % = 0.0 KVA
REMAIN 0.00 KVA X 50 % = 0.0 KVA

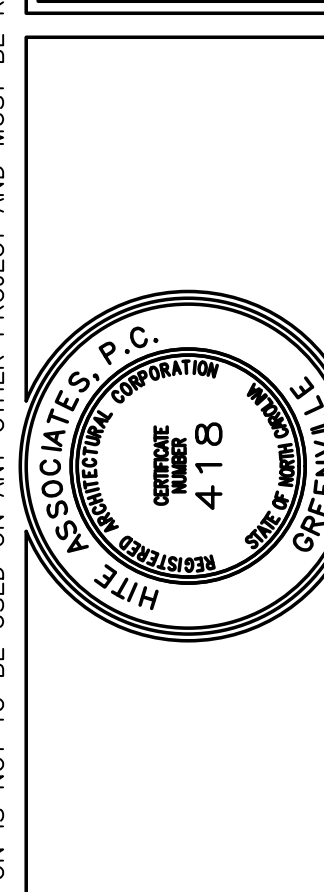
PANELBOARD SCHEDULE - "5P2"
MAIN: 225 MCB
VOLTAGE: 208/120
PHASE: 3
WIRE: 4
MOUNTING SURFACE:
AIC: 22,000
BUS BARS: COPPER

5P2 DEMAND CALCS
LIGHTING 0.00 KVA X 125 % = 0.0 KVA
RECEPTAC TOTAL 15.40 KVA
1ST 10.00 KVA X 100 % = 10.0 KVA
REMAIN 5.40 KVA X 50 % = 2.7 KVA

T-5 DEMAND CALCS
LIGHTING 4.50 KVA X 125 % = 5.6 KVA
RECEPTAC TOTAL 23.40 KVA
1ST 10.00 KVA X 100 % = 10.0 KVA
REMAIN 13.40 KVA X 50 % = 6.7 KVA

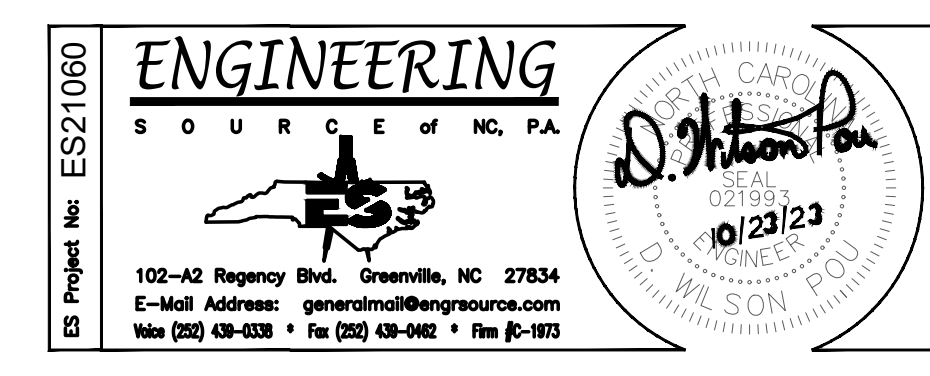
Revision table with columns for No. and Date.

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New Additions & Renovations to West Carteret High School
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Carteret County Schools / North Carolina

Project No. 22112
Date: 03 Oct 2023
Drawing No. E 007



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EXISTING PANELBOARD SCHEDULE - "RE1"
Table with columns for MAIN, MLO, VOLTAGE, PHASE, WIRE, MOUNTING SURFACE, AIC, BUS BARS, and detailed load descriptions for lighting, receptacles, motors, water heating, and future.

EXISTING PANELBOARD SCHEDULE - "RE2"
Table with columns for MAIN, MLO, VOLTAGE, PHASE, WIRE, MOUNTING SURFACE, AIC, BUS BARS, and detailed load descriptions for lighting, receptacles, motors, water heating, and future.

EXISTING PANELBOARD SCHEDULE - "RE3"
Table with columns for MAIN, MLO, VOLTAGE, PHASE, WIRE, MOUNTING SURFACE, AIC, BUS BARS, and detailed load descriptions for lighting, receptacles, motors, water heating, and future.

PP1B DEMAND CALCS
Summary of demand calculations for panel PP1B, including lighting, receptacles, motors, water heating, and future loads, resulting in 78.5 amps and 28.3 KVA.

RE1 DEMAND CALCS
Summary of demand calculations for panel RE1, including lighting, receptacles, motors, water heating, and future loads, resulting in 207 amps and 172.7 KVA.

PP1 DEMAND CALCS
Summary of demand calculations for panel PP1, including lighting, receptacles, motors, water heating, and future loads, resulting in 20.0 amps and 7.2 KVA.

RE2 DEMAND CALCS
Summary of demand calculations for panel RE2, including lighting, receptacles, motors, water heating, and future loads, resulting in 206.4 amps and 171.6 KVA.

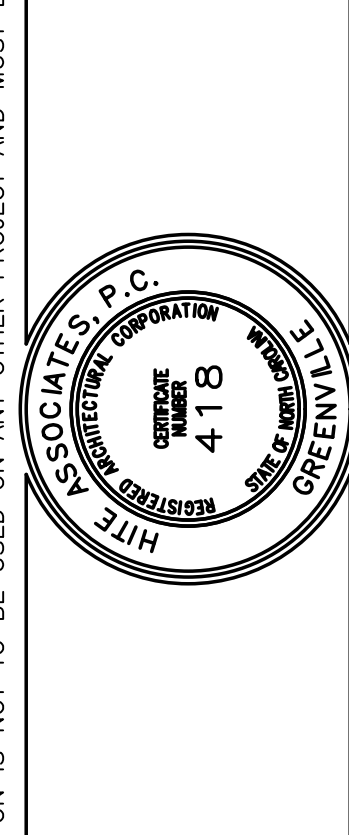
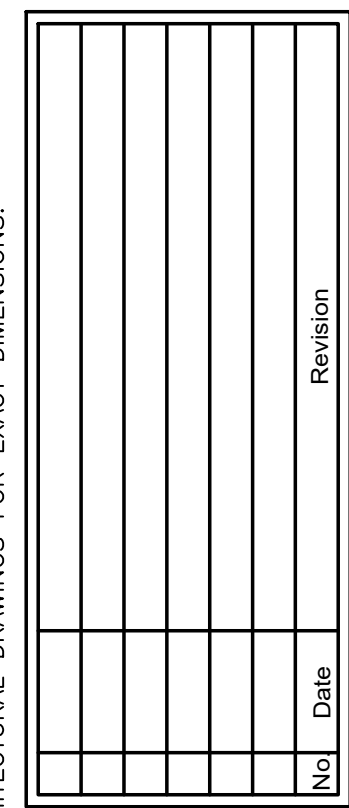
PP2 DEMAND CALCS
Summary of demand calculations for panel PP2, including lighting, receptacles, motors, water heating, and future loads, resulting in 43.2 amps and 15.6 KVA.

RE3 DEMAND CALCS
Summary of demand calculations for panel RE3, including lighting, receptacles, motors, water heating, and future loads, resulting in 442.6 amps and 367.9 KVA.

PANELBOARD SCHEDULE - "PP1B"
Table with columns for MAIN, MCB, VOLTAGE, PHASE, WIRE, MOUNTING SURFACE, AIC, BUS BARS, and detailed load descriptions for lighting, receptacles, motors, and water heating.

PANELBOARD SCHEDULE - "PP1"
Table with columns for MAIN, MLO, VOLTAGE, PHASE, WIRE, MOUNTING SURFACE, AIC, BUS BARS, and detailed load descriptions for lighting, receptacles, motors, water heating, and future.

EXISTING PANELBOARD SCHEDULE - "PP2"
Table with columns for MAIN, MCB, VOLTAGE, PHASE, WIRE, MOUNTING SURFACE, AIC, BUS BARS, and detailed load descriptions for lighting, receptacles, motors, water heating, and future.



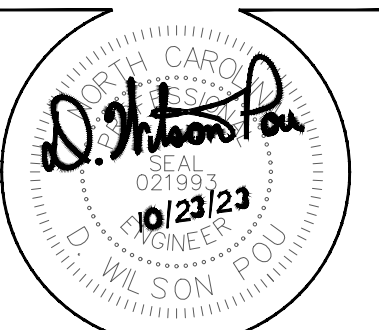
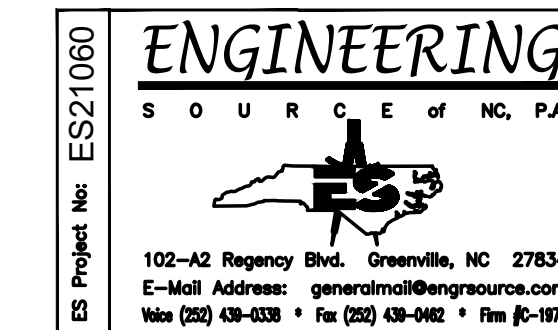
New Additions & Renovations to
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Carteret County Schools / North Carolina

Project No. 22112

Date: 03 Oct 2023

Drawing No. F

008



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PL DEMAND CALCS table with columns for category (LIGHTING, RECEPTAC TOTAL, MOTORS, A/C, WATER HEATING, FUTURE, KITCHEN, MISCELLANEOUS), KVA, and demand calculation results.

K2 DEMAND CALCS table with columns for category (LIGHTING, RECEPTAC TOTAL, MOTORS, A/C, WATER HEATING, FUTURE, KITCHEN, MISCELLANEOUS), KVA, and demand calculation results.

CRP1 DEMAND CALCS table with columns for category (ING, RECEPTAC TOTAL, RS, R HEATING, RE, EN, MISCELLANEOUS), KVA, and demand calculation results.

CRP2 DEMAND CALCS table with columns for category (LIGHTING, RECEPTAC TOTAL, MOTORS, A/C, WATER HEATING, FUTURE, KITCHEN, MISCELLANEOUS), KVA, and demand calculation results.

EXISTING PANELBOARD SCHEDULE - "PL" table with columns for Ckt #, Trip, Pole, Wire, Cond, Description, Load (kVA), Phase, Mounting, Surface, AIC, Bus Bars, Conductor, Wire, Pole, Breaker, Trip.

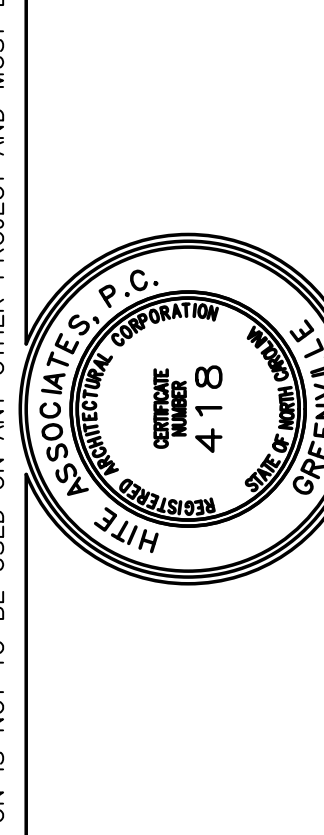
EXISTING PANELBOARD SCHEDULE - "K2" table with columns for Ckt #, Trip, Pole, Wire, Cond, Description, Load (kVA), Phase, Mounting, Surface, AIC, Bus Bars, Conductor, Wire, Pole, Breaker, Trip.

EXISTING RELOCATED PANELBOARD SCHEDULE - "CRP1" table with columns for Ckt #, Trip, Pole, Wire, Cond, Description, Load (kVA), Phase, Mounting, Surface, AIC, Bus Bars, Conductor, Wire, Pole, Breaker, Trip.

EXISTING RELOCATED PANELBOARD SCHEDULE - CRP2" table with columns for Ckt #, Trip, Pole, Wire, Cond, Description, Load (kVA), Phase, Mounting, Surface, AIC, Bus Bars, Conductor, Wire, Pole, Breaker, Trip.

Revision table with columns for No. and Date.

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Client information: New Additions & Renovations to West Carteret High School, 4700 Country Club Road, Morehead City NC 28577, Carteret County Schools / North Carolina.

Project No. 22112, Date: 03 Oct 2023, Drawing No. E 009.

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MDP-1 DEMAND CALCS

LIGHTING	0.00	KVA	X	125 %	=	0.0 KVA
RECEPTAC TOTAL	0.00	KVA				
1ST	10.00	KVA	X	100 %	=	0.0 KVA
REMAIN	0.00	KVA	X	50 %	=	0.0 KVA
MOTORS	0.00	KVA	X	100 %	=	0.0 KVA
LARGEST	0.00	KVA	X	125 %	=	0.0 KVA
A/C	0.00	KVA	X	100 %	=	0.0 KVA
WATER HEATING	0.00	KVA	X	125 %	=	0.0 KVA
FUTURE		KVA	X	100 %	=	0.0 KVA
KITCHEN	0.00	KVA	X	65 %	=	0.0 KVA
MISCELLANEOUS	0.00	KVA	X	100 %	=	0.0 KVA
TOTAL	=	0.0 amps	=			0.0 KVA

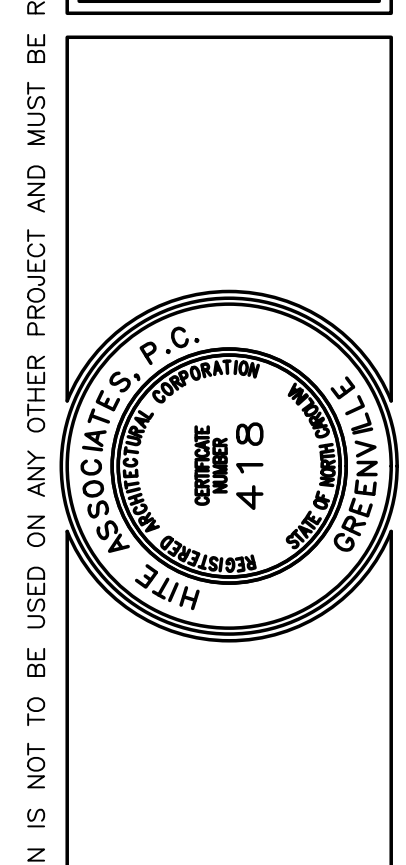
PANELBOARD SCHEDULE - "MDP-1"

MAN: 5000 VOLTAGE: 480/277 PHASE: 3 WIRE: 4 MOUNTING: SURFACE AIC: 42,000 BUS BARS: COPPER

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LOAD (KVA)						PHASE LOAD (KVA)						DESCRIPTION	COND WIRE SIZE	POLE	BKR TRIP	CKT #	
						LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC						MTR
1																			1	2			
3																			1	4			
5																			2	6			
7																			2	8			
9																			2	10			
11																			2	12			
13																			2	14			
15																							
16																							
17																			1	18			
19																							
21																			3	22			
23																							
25																							
27																			3	28			
29																							
31																			3	30			
33																							
35																			3	34			
37																							
39																							
41																			3	42			
LIGHTING (KVA)						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	CONNECTED LOAD (KVA)			0.0	
RECEPTACLES (KVA)						0.0														DEMAND LOAD (KVA)			0.0
MOTORS (KVA)						0.0													CONNECTED LOAD (AMPS)			0.0	
A/C (KVA)						0.0													DEMAND LOAD (AMPS)			0.0	
HEATING (KVA)						0.0													CONNECTED LOAD (AMPS)			0.0	
KITCHEN (KVA)						0.0													DEMAND LOAD (AMPS)			0.0	
MISCELLANEOUS (KVA)						0.0													CONNECTED LOAD (AMPS)			0.0	
NOTES: SQUARE D PANEL																							

Rev	Date	Revision

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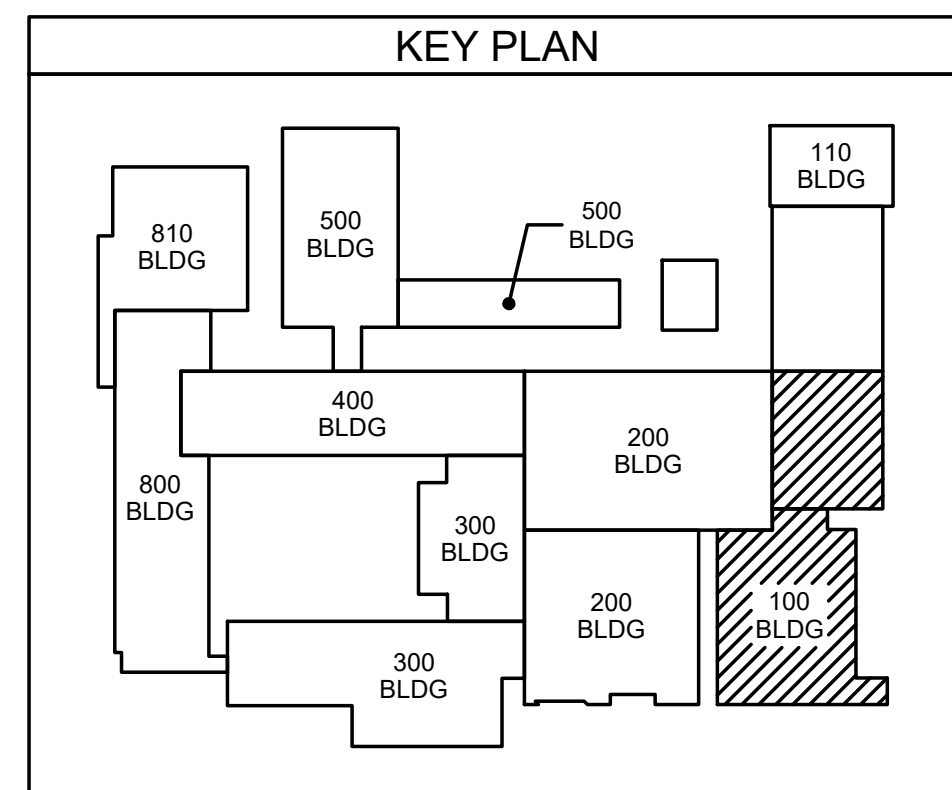
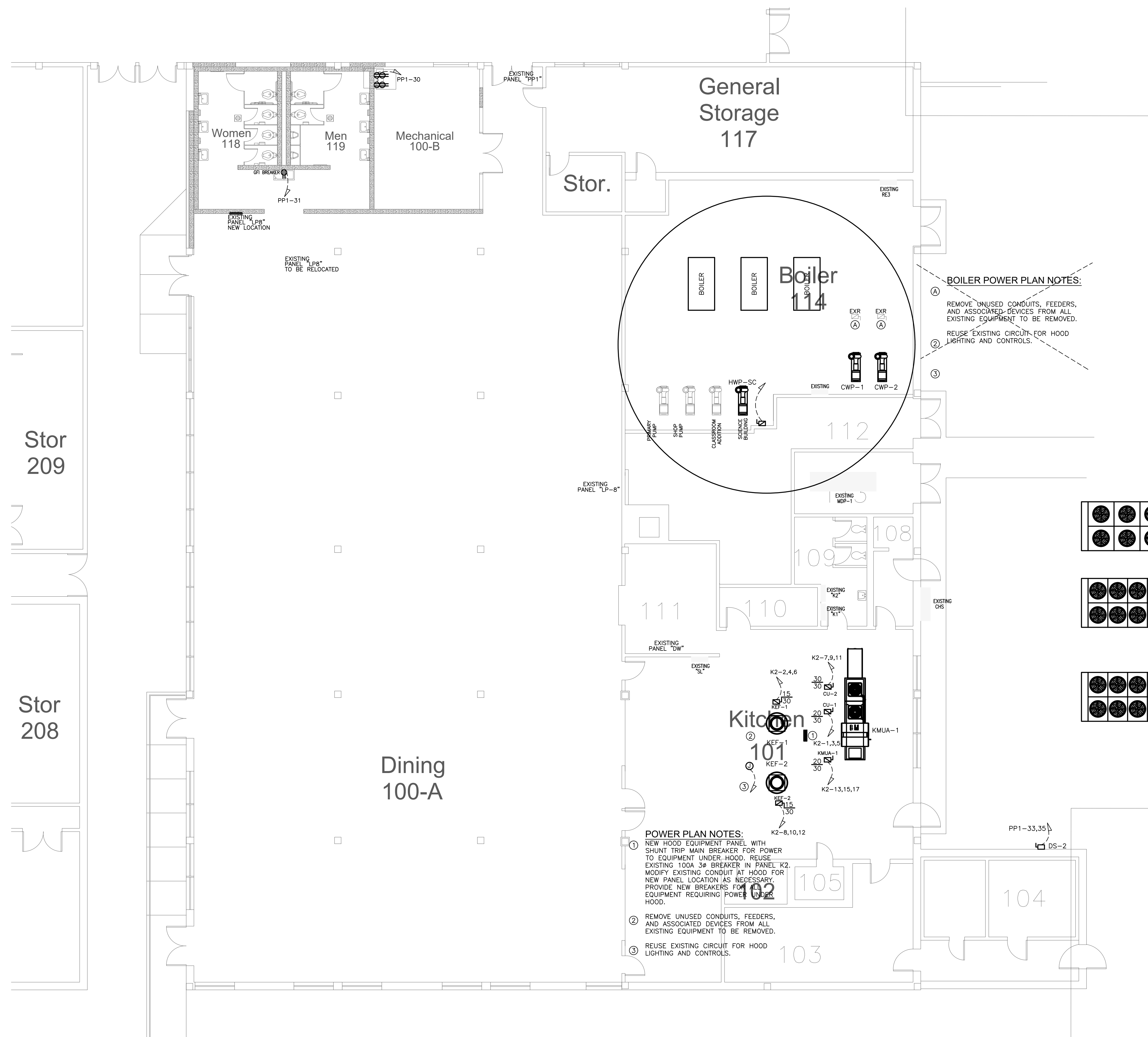
New Additions & Renovations to
West Carteret High School
 4700 Country Club Road, Morehead City, NC 28577
 Carteret County Schools / North Carolina

Project No.	22112
Date	03 Oct 2023
Drawing no.	E 010

ES21060
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10/23/23

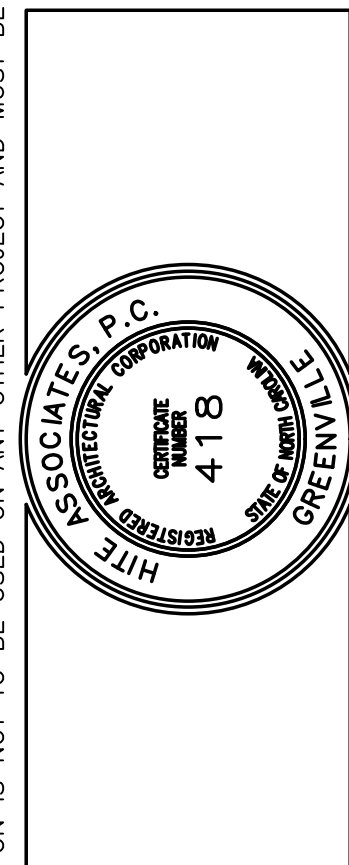
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101.1 DINING ROOM POWER PLAN
SCALE: 1/8" = 1'-0"

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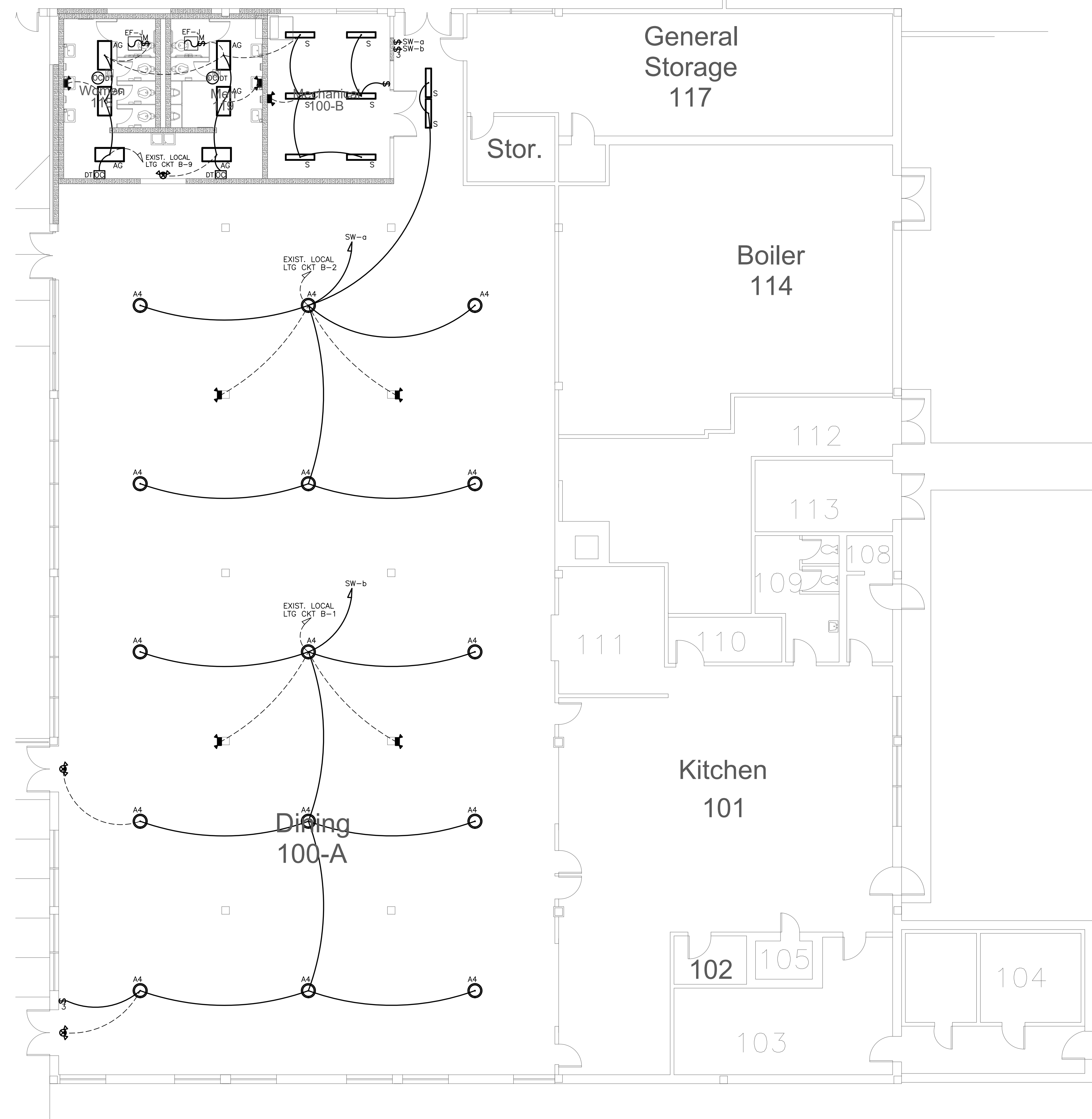
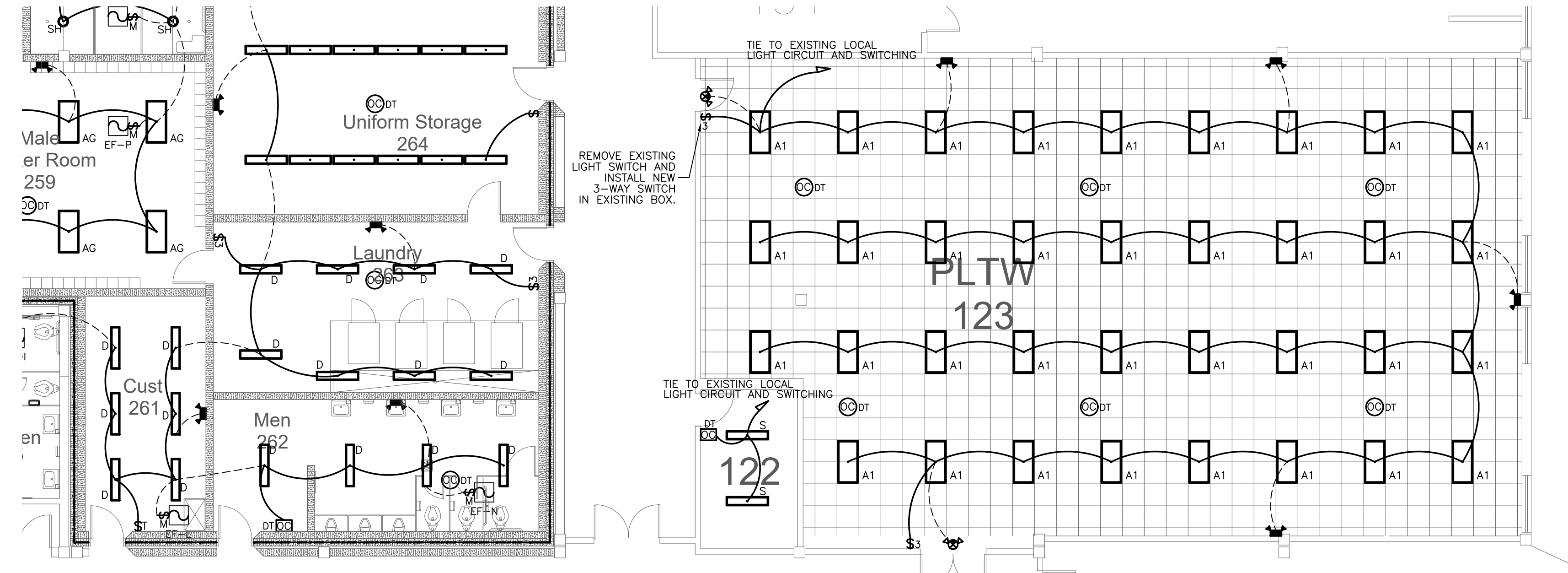
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Drawing no.	E 101

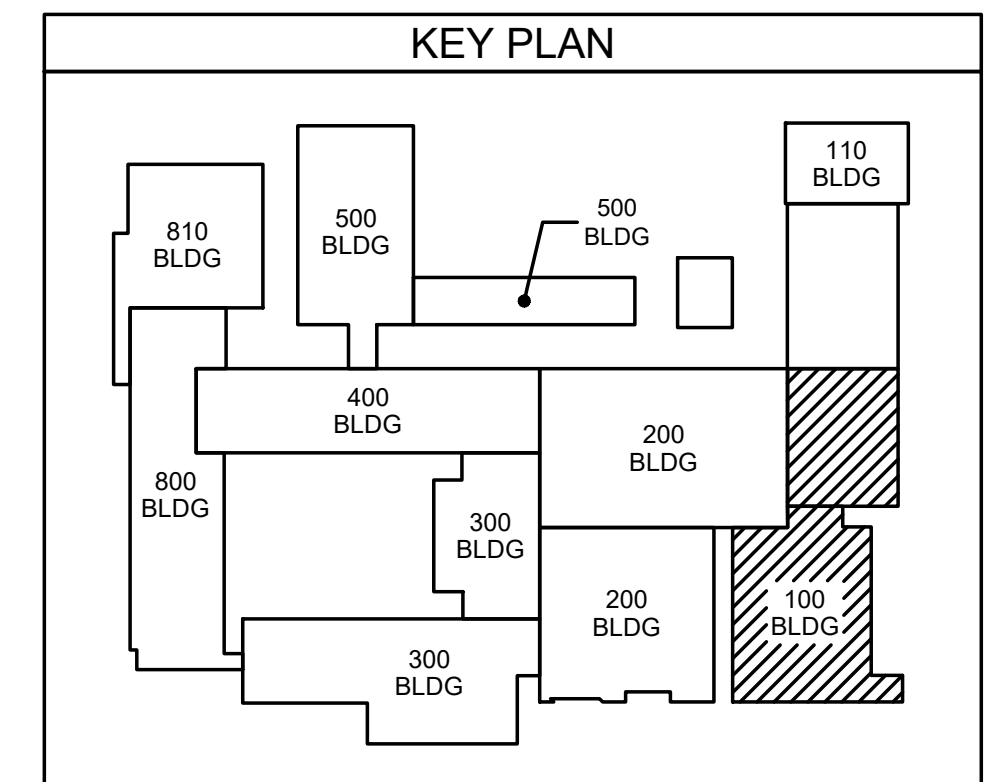
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102.1 DINING ROOM LIGHTING PLAN
SCALE: 1/8" = 1'-0"



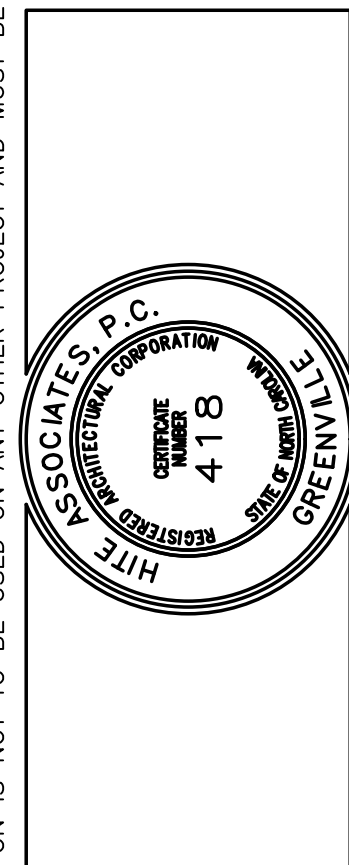
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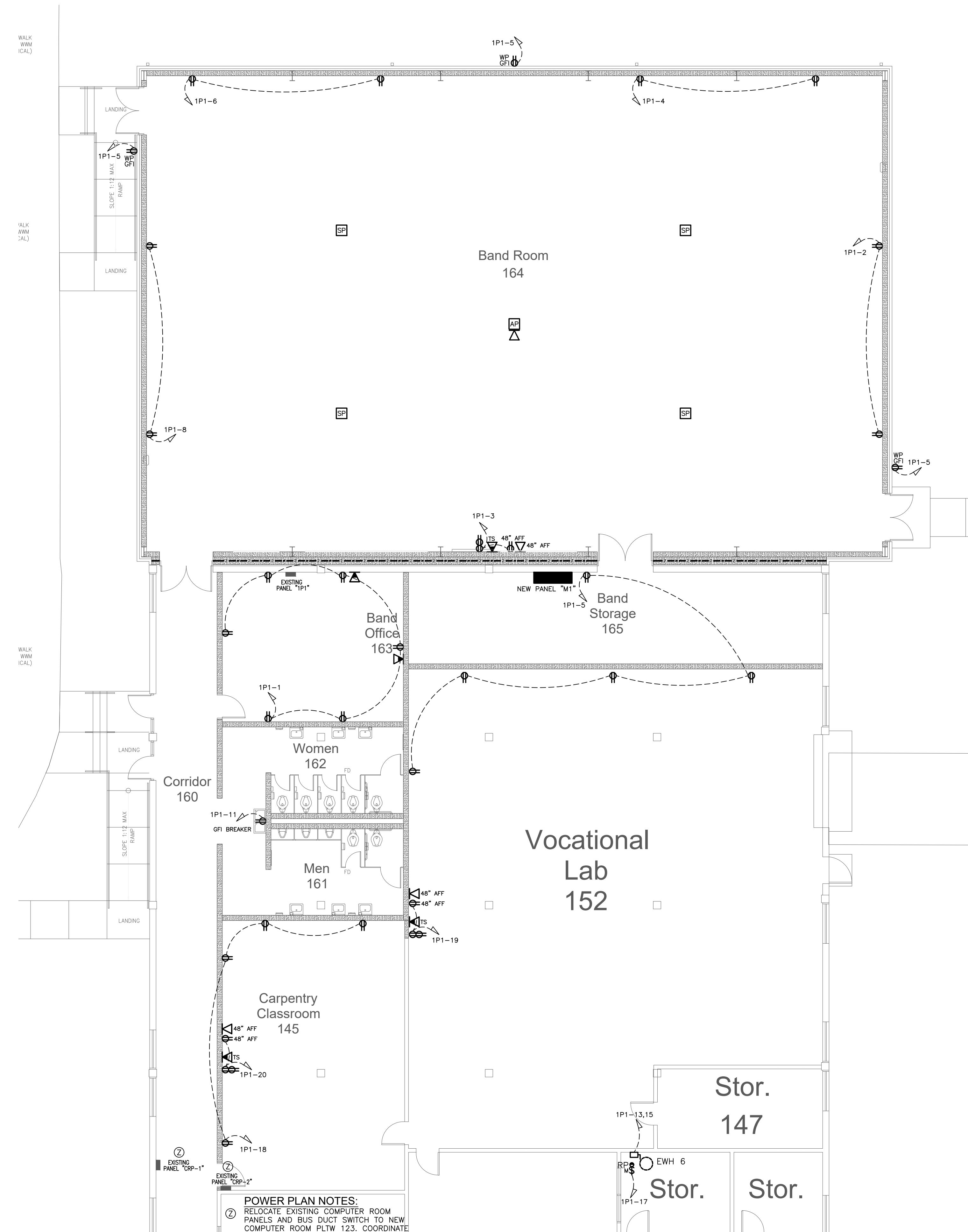
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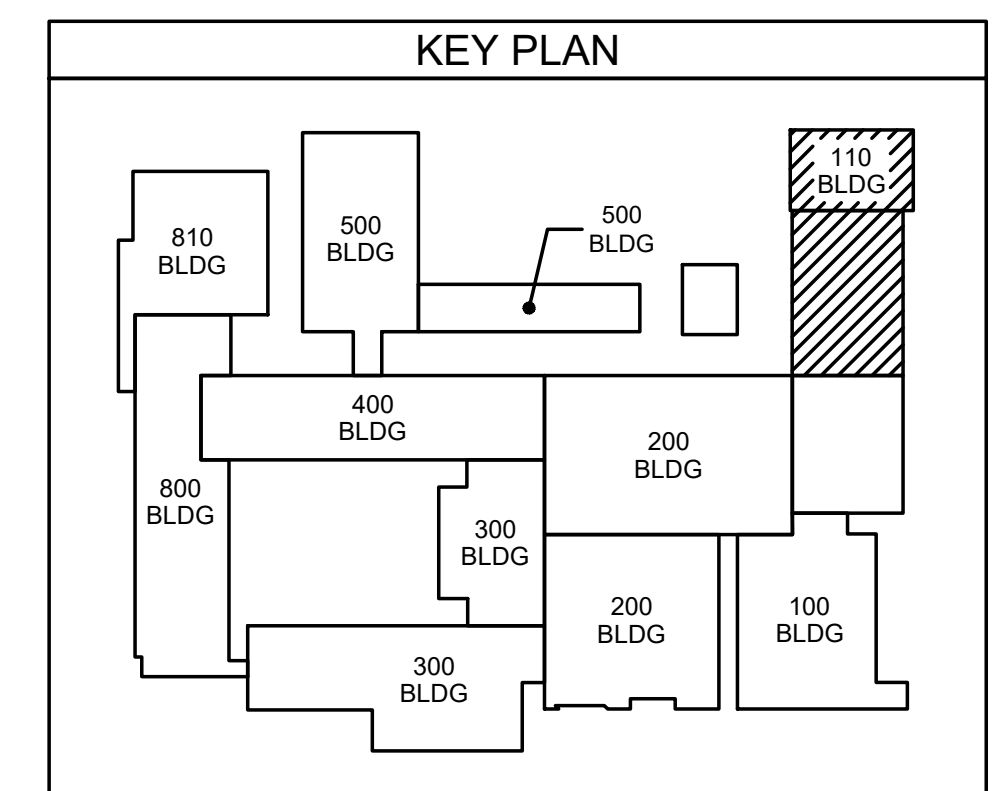
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111.1 BAND ROOM POWER PLAN
SCALE: 1/8" = 1'-0"

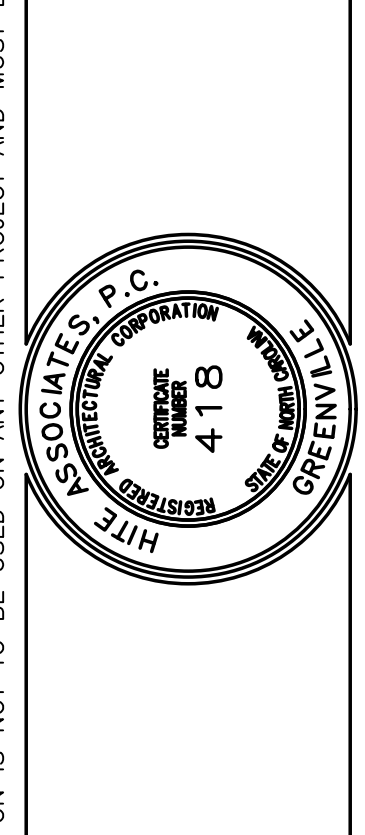
POWER PLAN NOTES:
 1 RELOCATE EXISTING COMPUTER ROOM PANELS AND BUS DUCT SWITCH TO NEW COMPUTER ROOM PLTW 123. COORDINATE
 2



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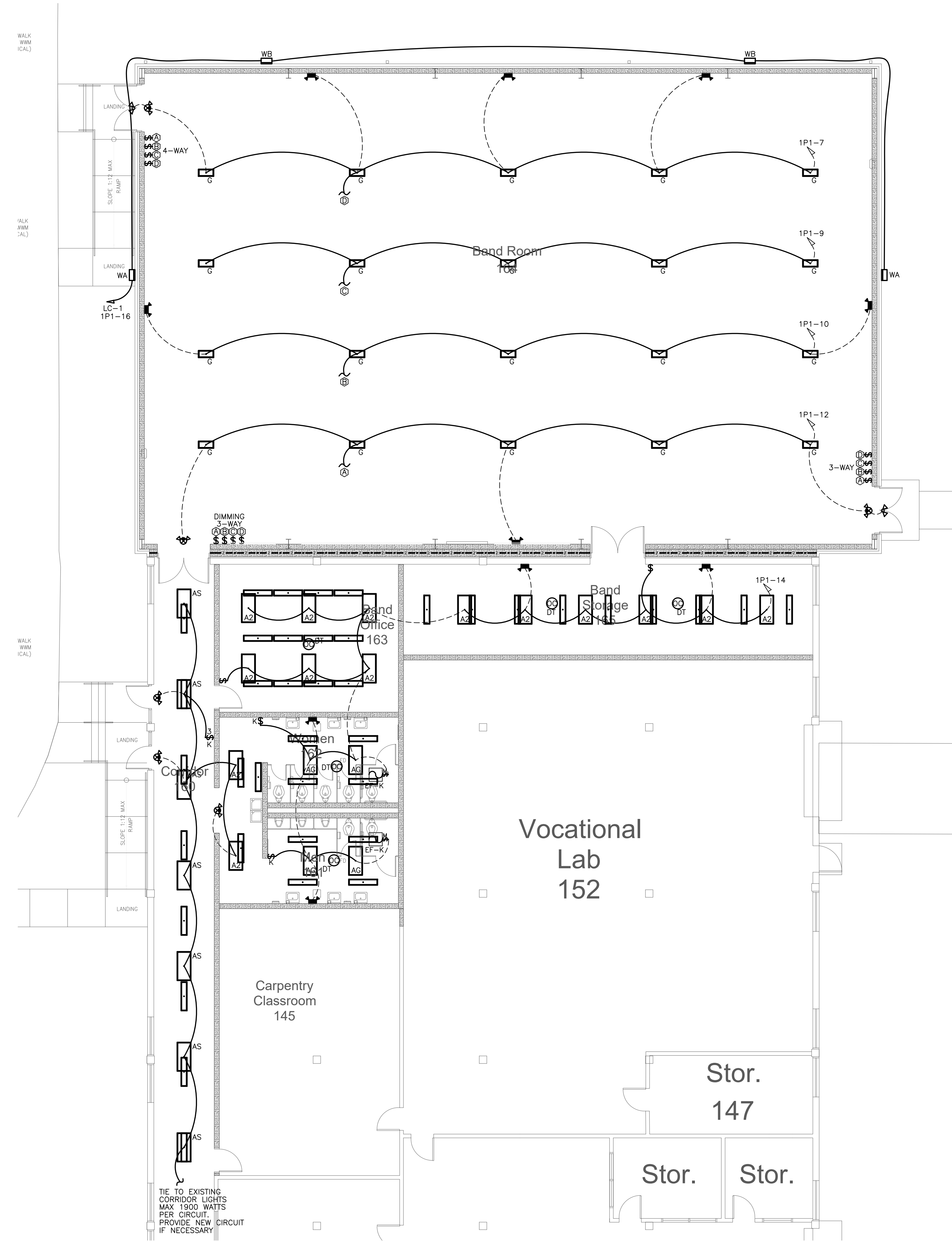
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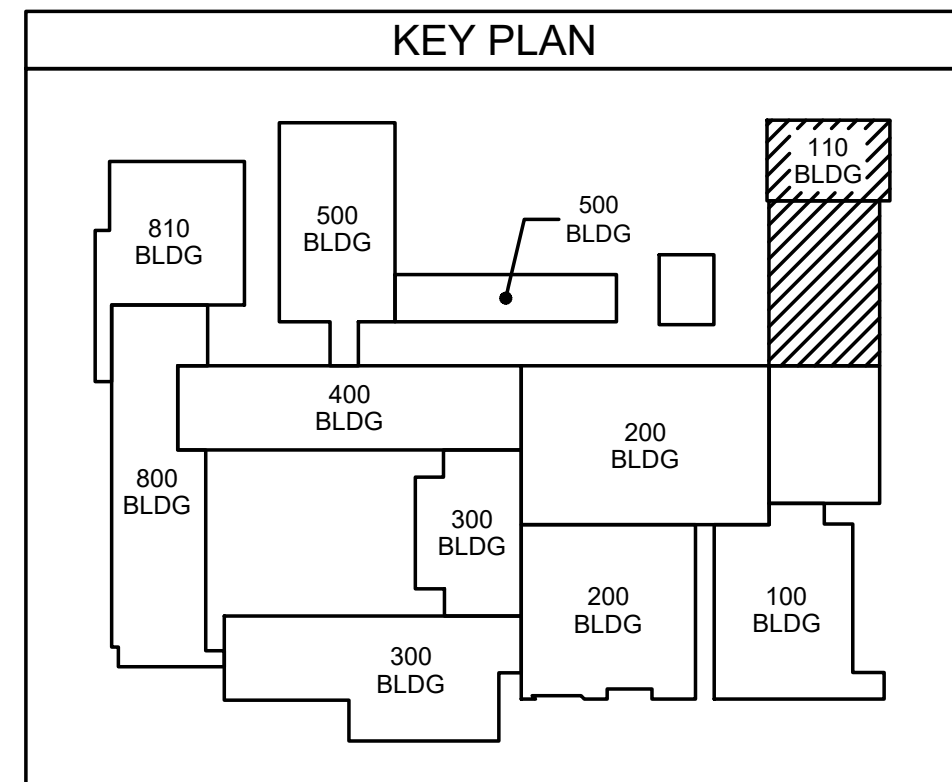
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112.1 BAND ROOM LIGHTING PLAN
SCALE: 1/8" = 1'-0"

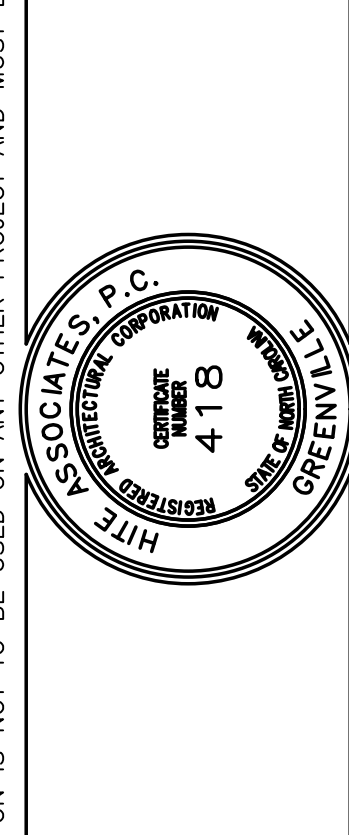


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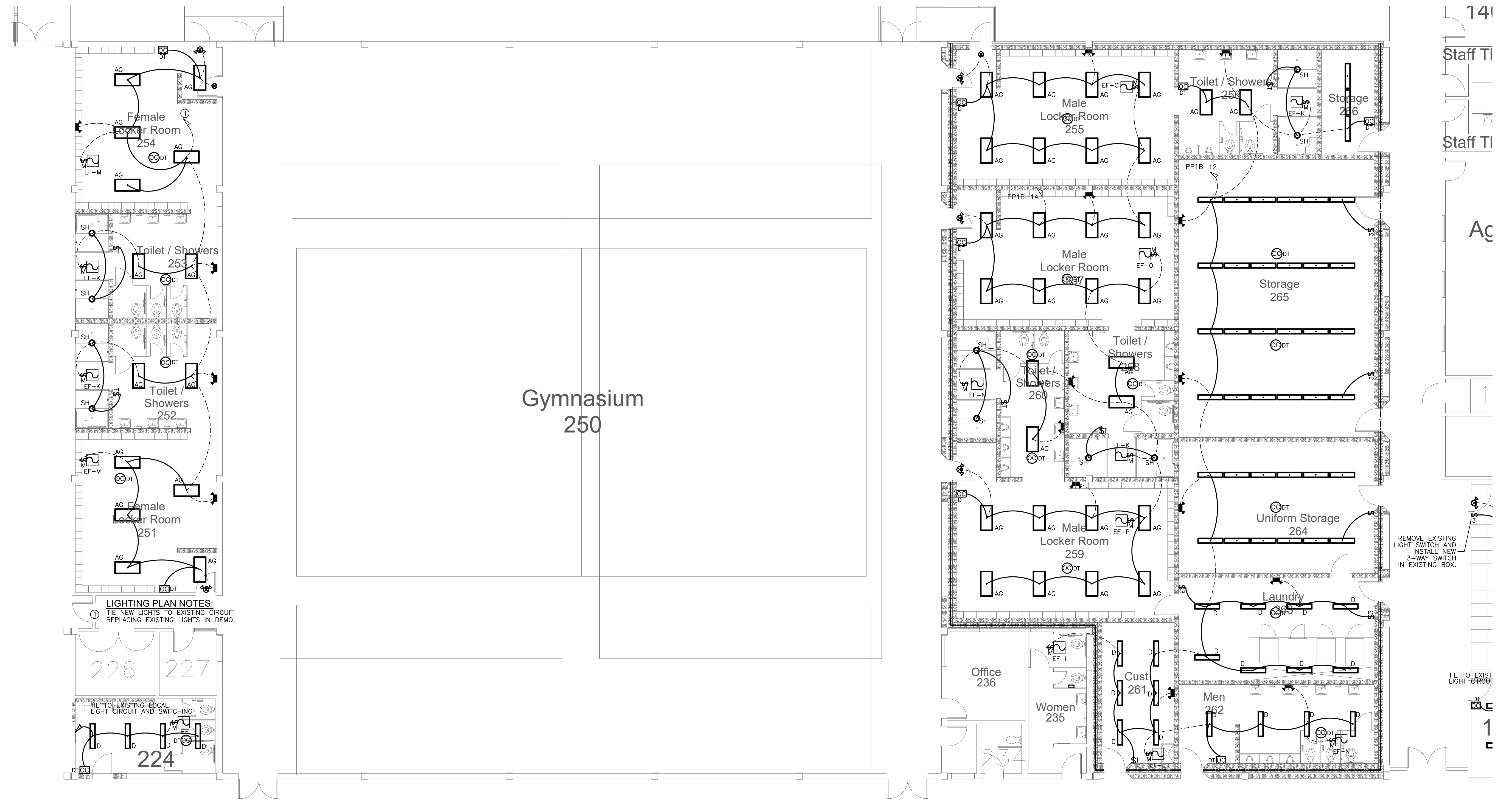
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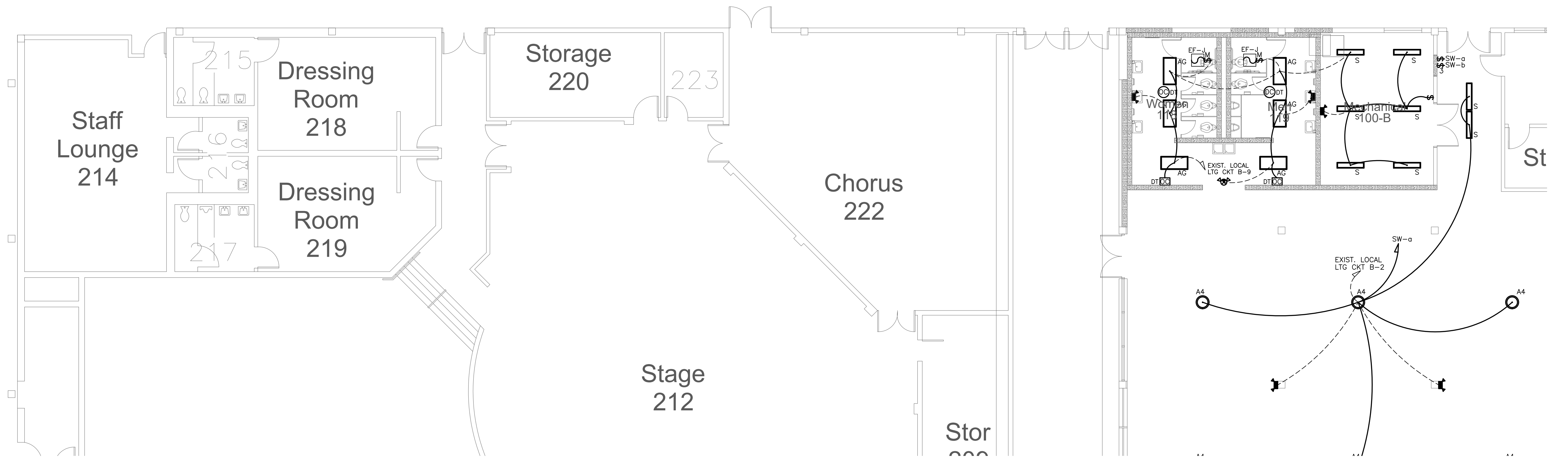
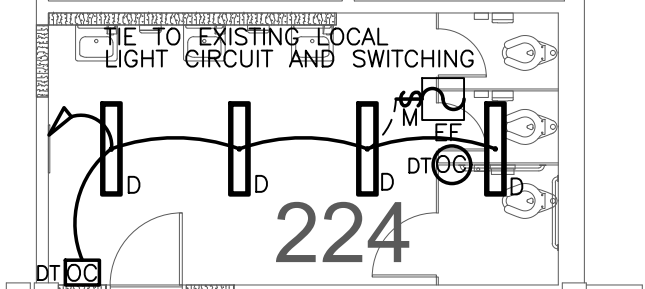
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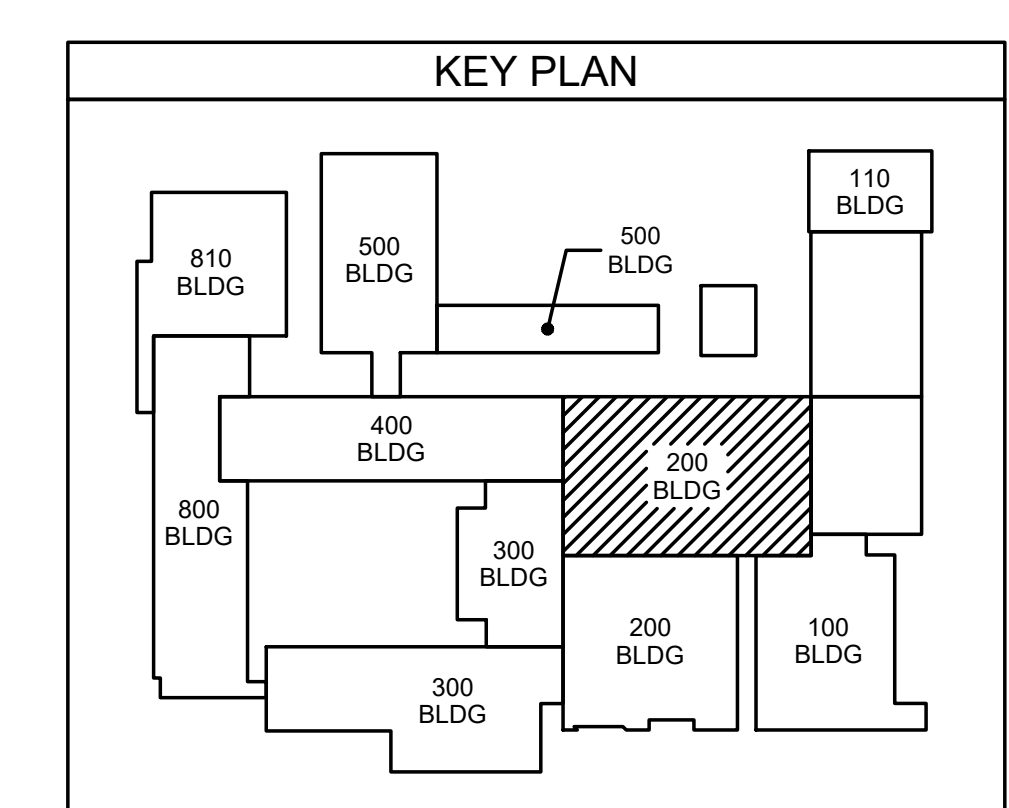
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LIGHTING PLAN NOTES:
 ① THE NEW LIGHTS TO EXISTING CIRCUIT
 ② REPLACING EXISTING LIGHTS IN DEMO.



202.1 EXISTING GYM LIGHTING PLAN
 SCALE: 1/8" = 1'-0"

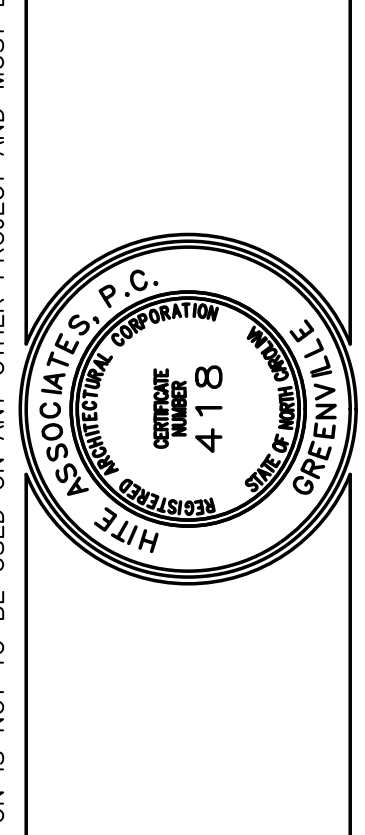


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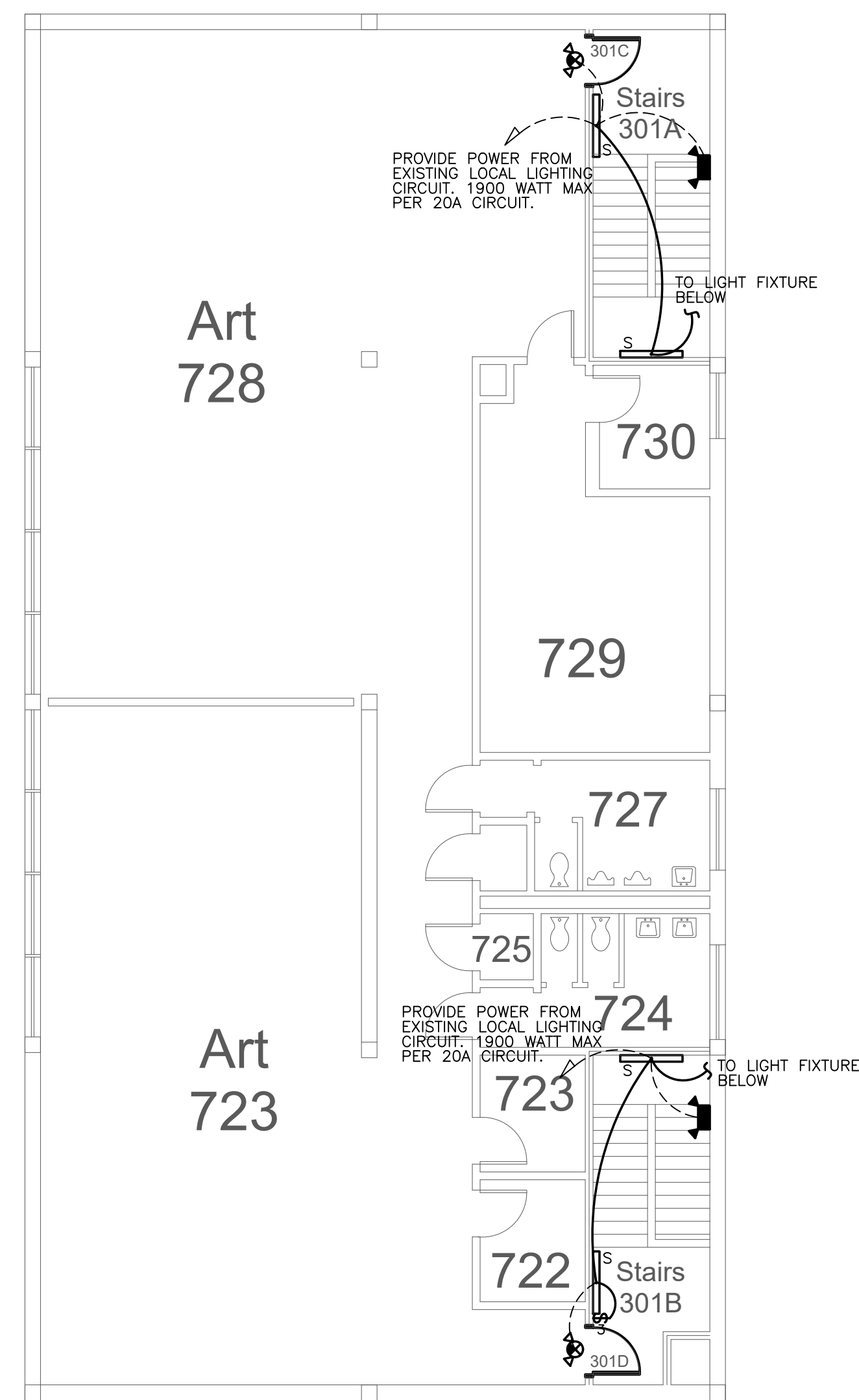
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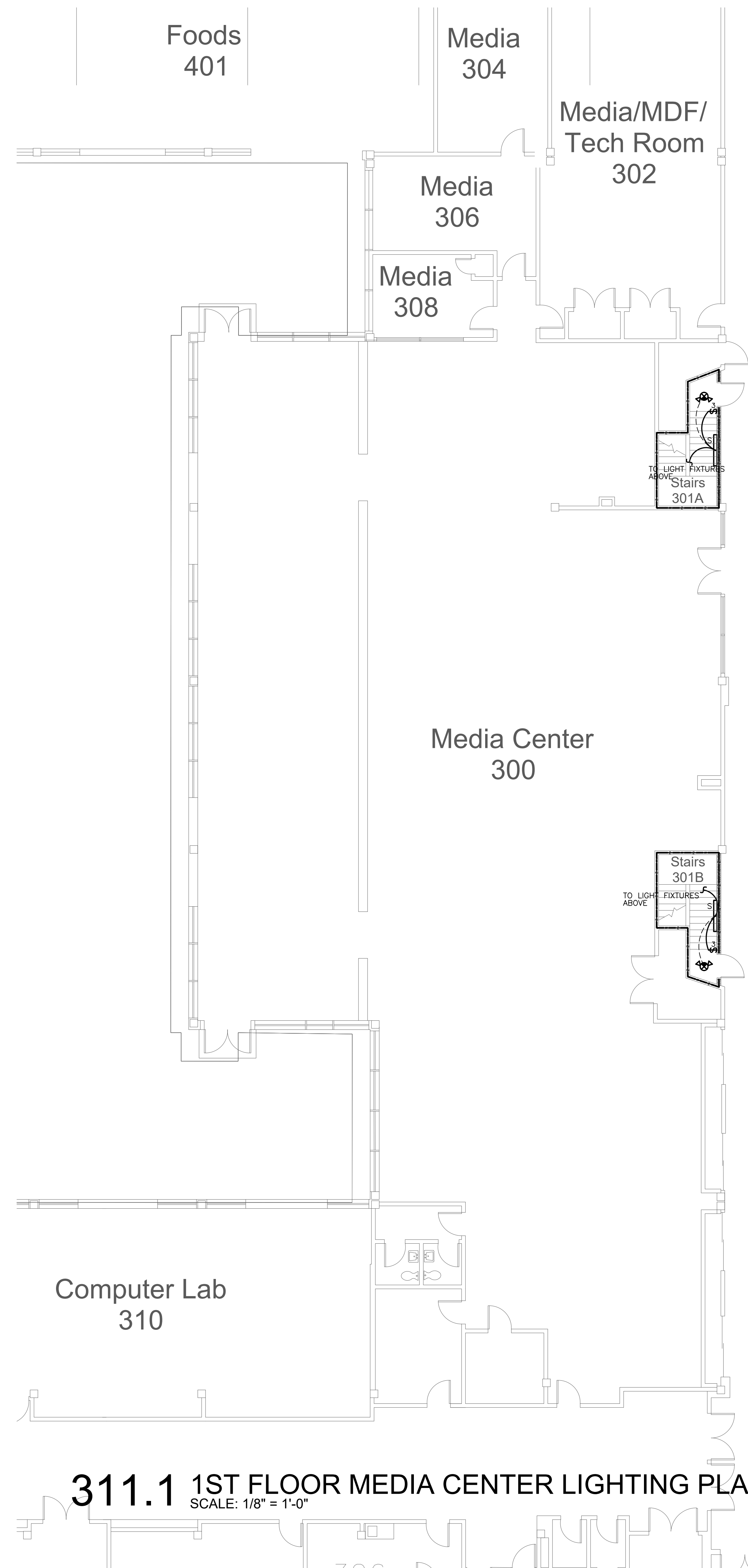
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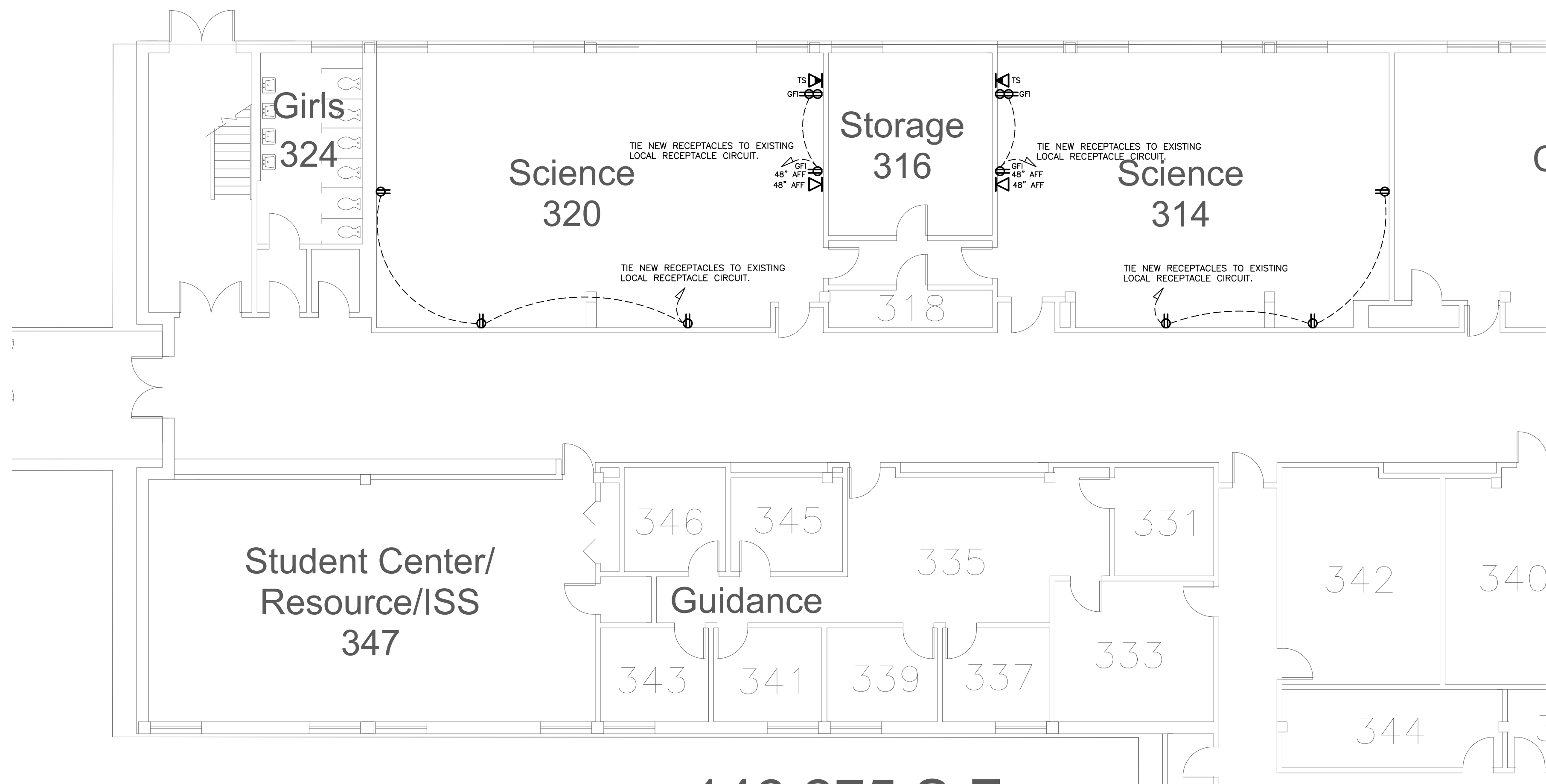
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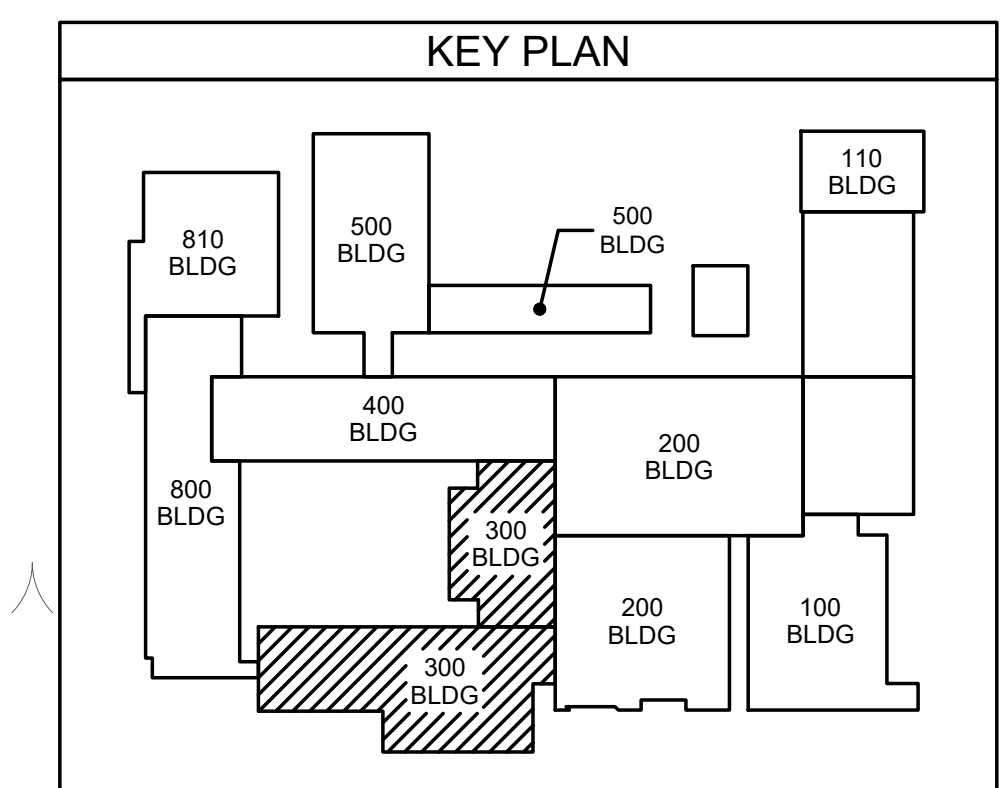
311.2 2ND FLOOR MEDIA CENTER LIGHTING PLAN
SCALE: 1/8" = 1'-0"



311.1 1ST FLOOR MEDIA CENTER LIGHTING PLAN
SCALE: 1/8" = 1'-0"



311.1 1ST FLOOR ROOM 320 314 POWER PLAN
SCALE: 1/8" = 1'-0"

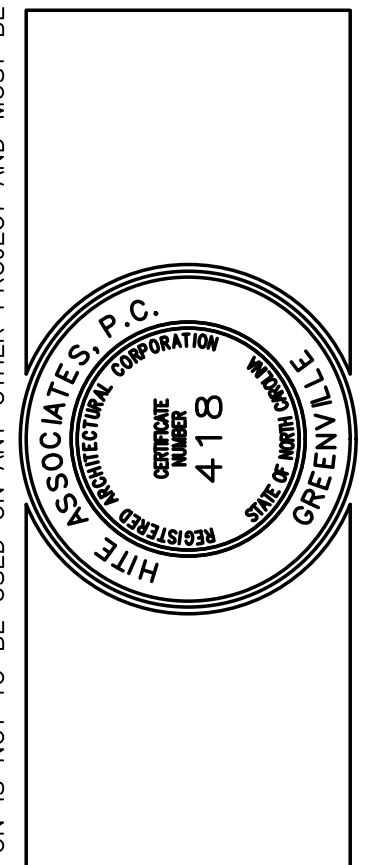


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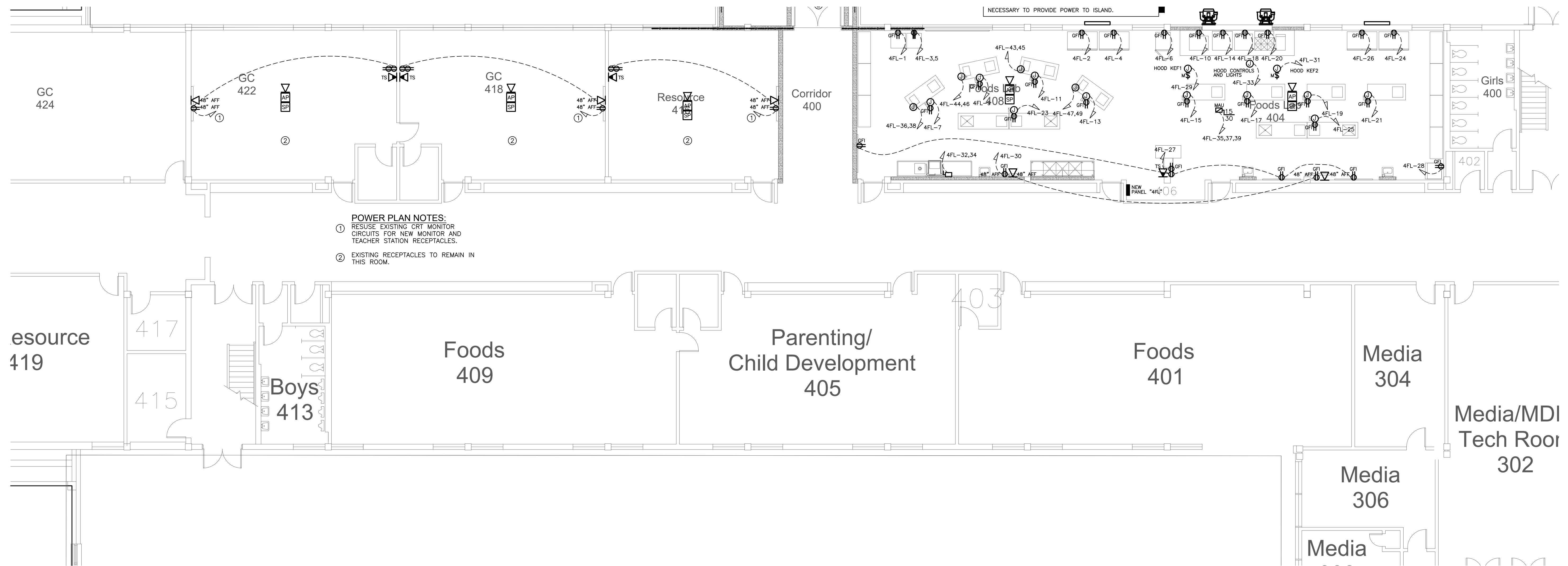
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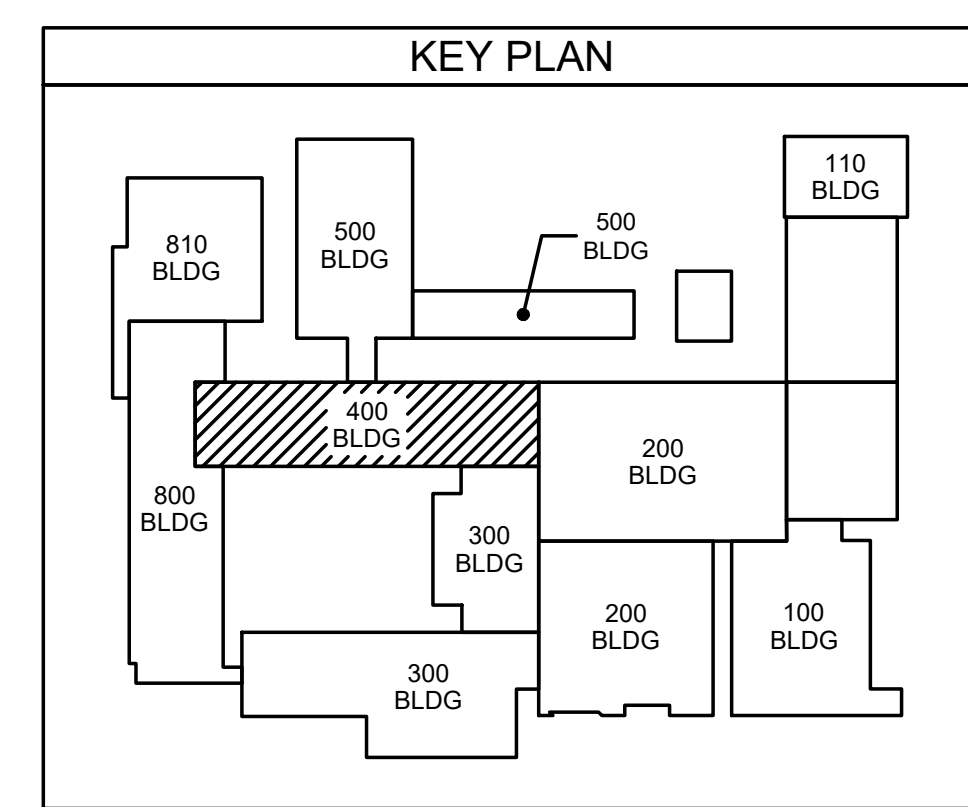
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POWER PLAN NOTES:
 ① RESUSE EXISTING CRT MONITOR CIRCUITS FOR NEW MONITOR AND TEACHER STATION RECEPTACLES.
 ② EXISTING RECEPTACLES TO REMAIN IN THIS ROOM.

401.1 400 WING POWER PLAN
 SCALE: 1/8" = 1'-0"



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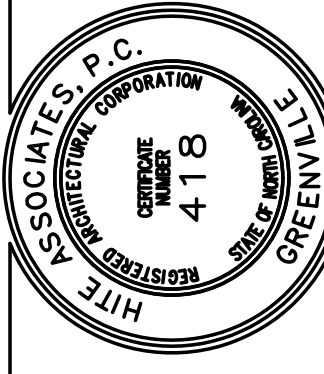
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 STATE OF NORTH CAROLINA
 No. 10242

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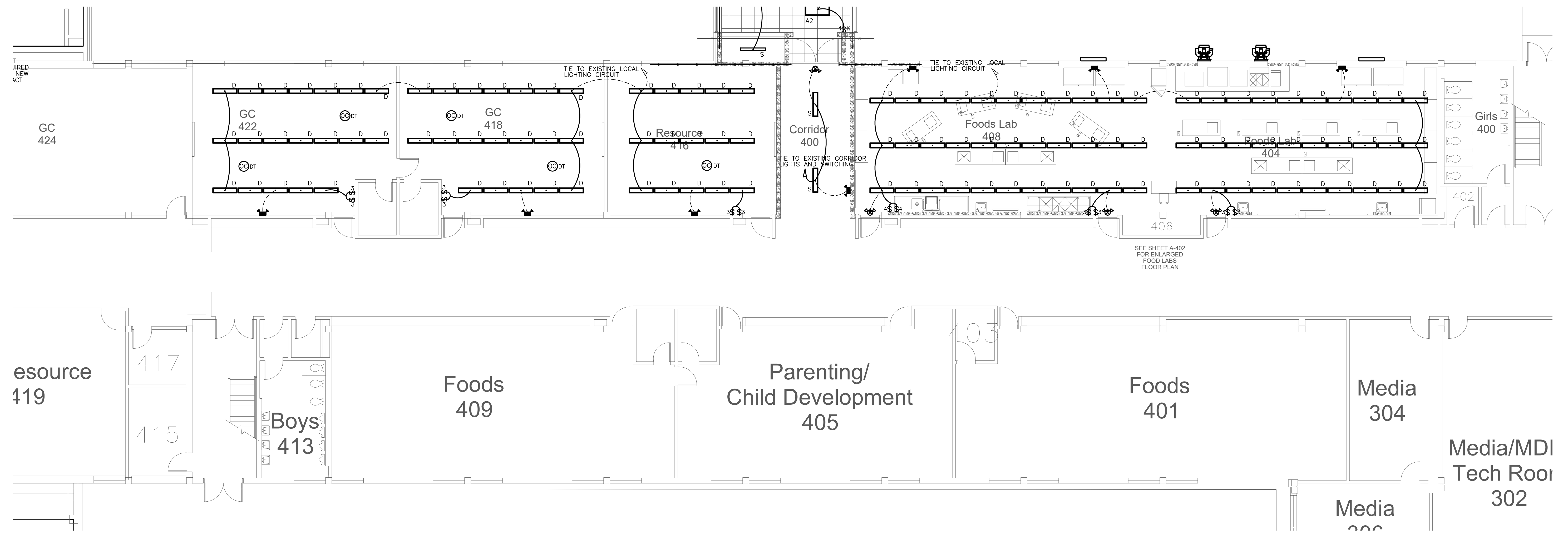
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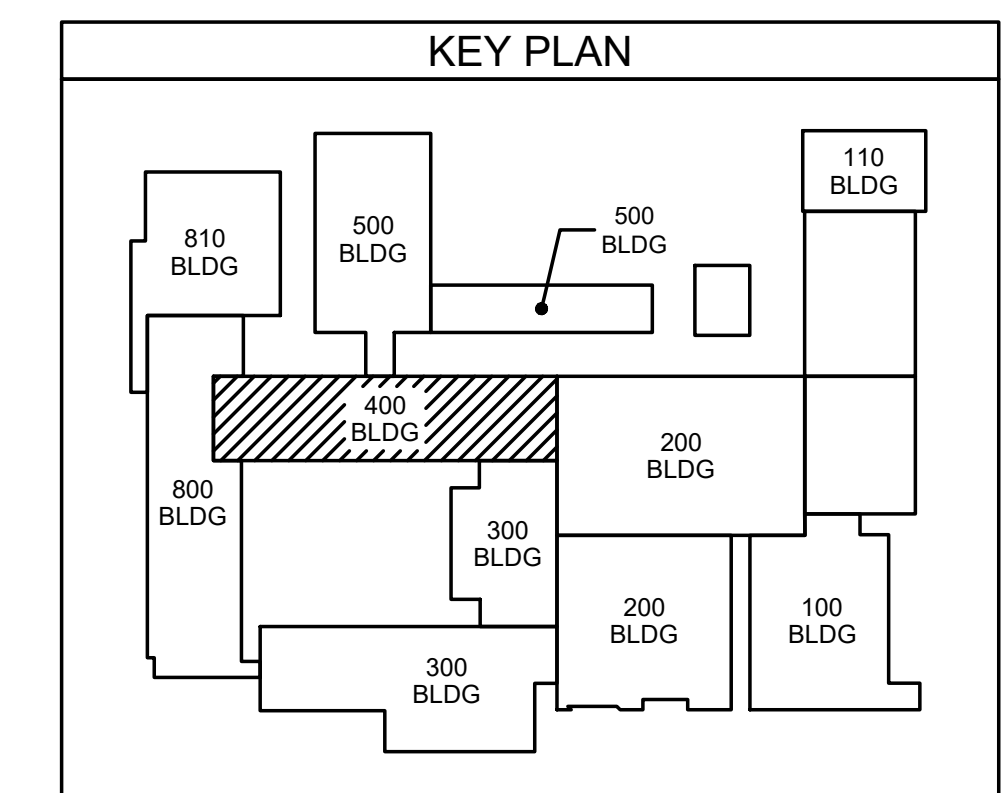


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402.1 400 WING LIGHTING PLAN
SCALE: 1/8" = 1'-0"



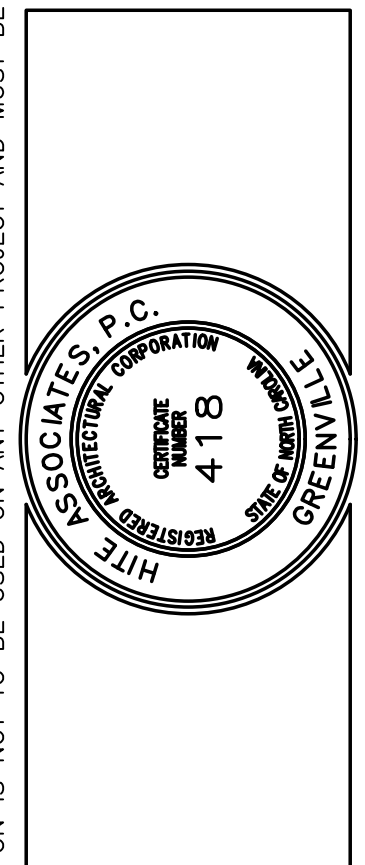
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10/23/23
D. WILSON, P.E.

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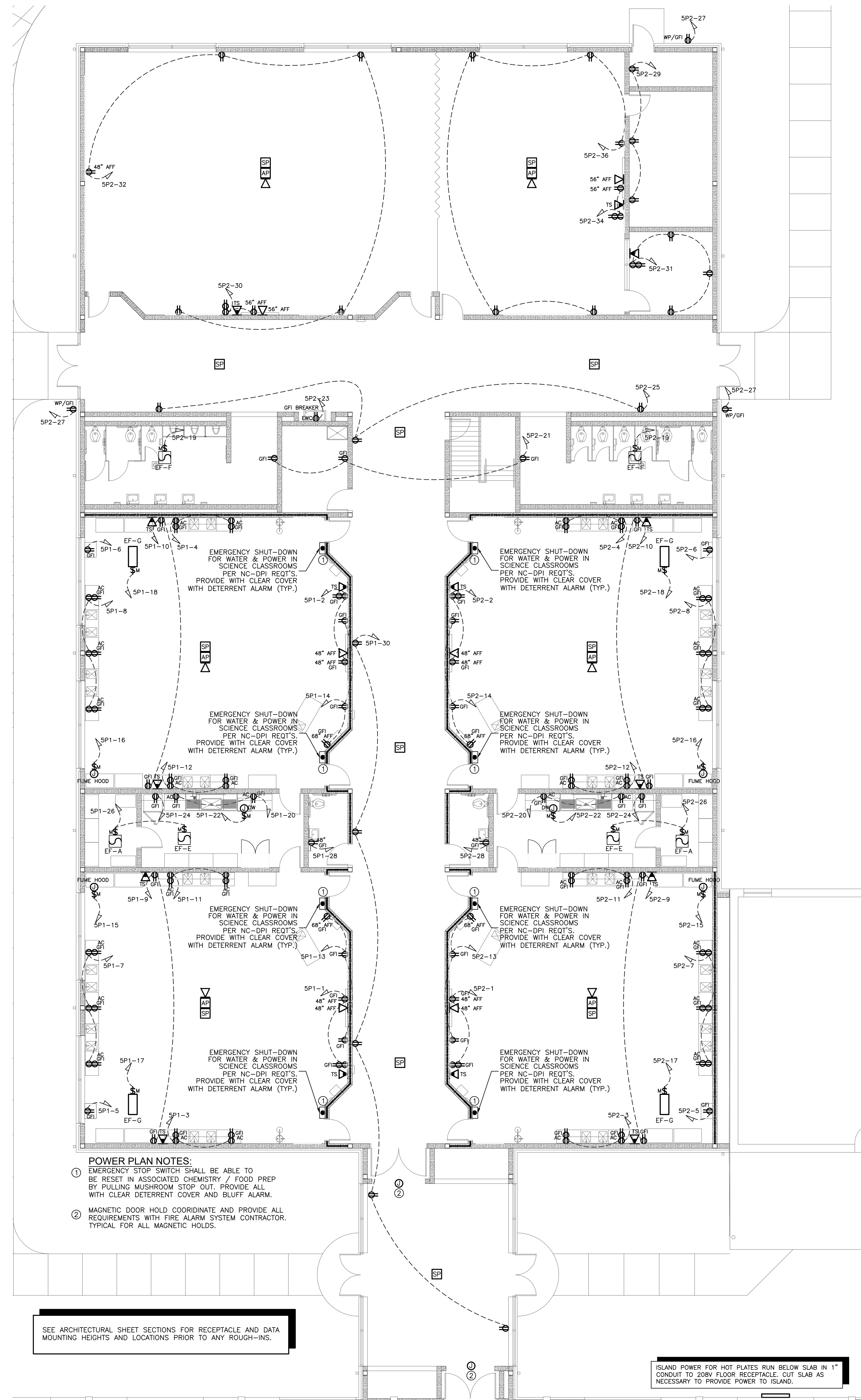
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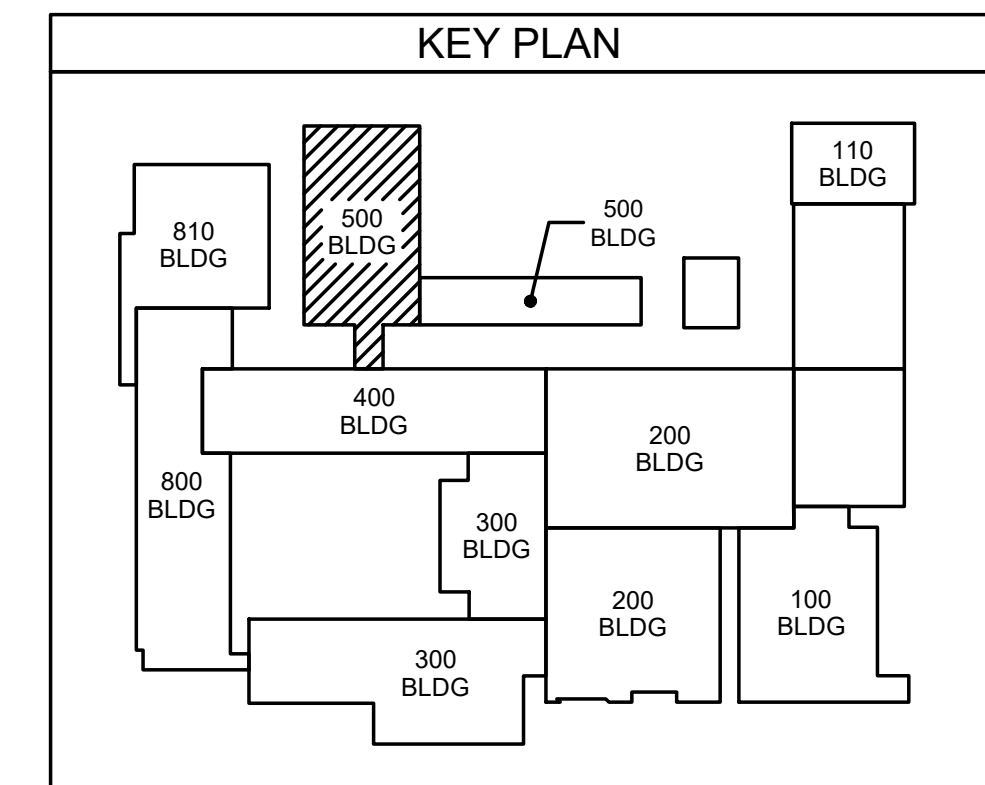
- POWER PLAN NOTES:**
- EMERGENCY STOP SWITCH SHALL BE ABLE TO BE RESET IN ASSOCIATED CHEMISTRY / FOOD PREP BY PULLING MUSHROOM STOP OUT. PROVIDE ALL WITH CLEAR DETERRENT COVER AND BLUFF ALARM.
 - MAGNETIC DOOR HOLD COORDINATE AND PROVIDE ALL REQUIREMENTS WITH FIRE ALARM SYSTEM CONTRACTOR. TYPICAL FOR ALL MAGNETIC HOLDS.

SEE ARCHITECTURAL SHEET SECTIONS FOR RECEPTACLE AND DATA MOUNTING HEIGHTS AND LOCATIONS PRIOR TO ANY ROUGH-INS.

ISLAND POWER FOR HOT PLATES RUN BELOW SLAB IN 1" CONDUIT TO 208V FLOOR RECEPTACLE, OUT SLAB AS NECESSARY TO PROVIDE POWER TO ISLAND.

501.1 500 WING POWER PLAN

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



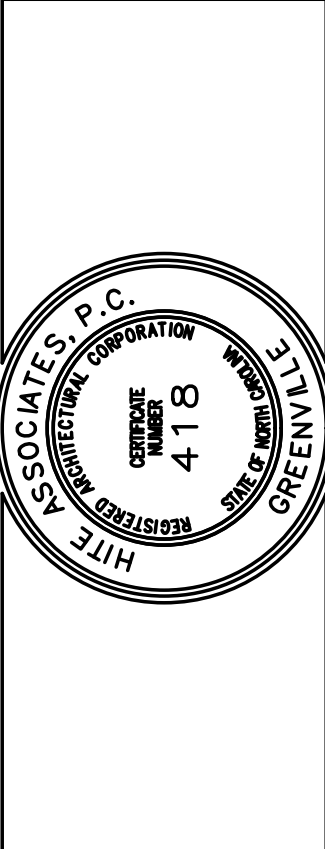
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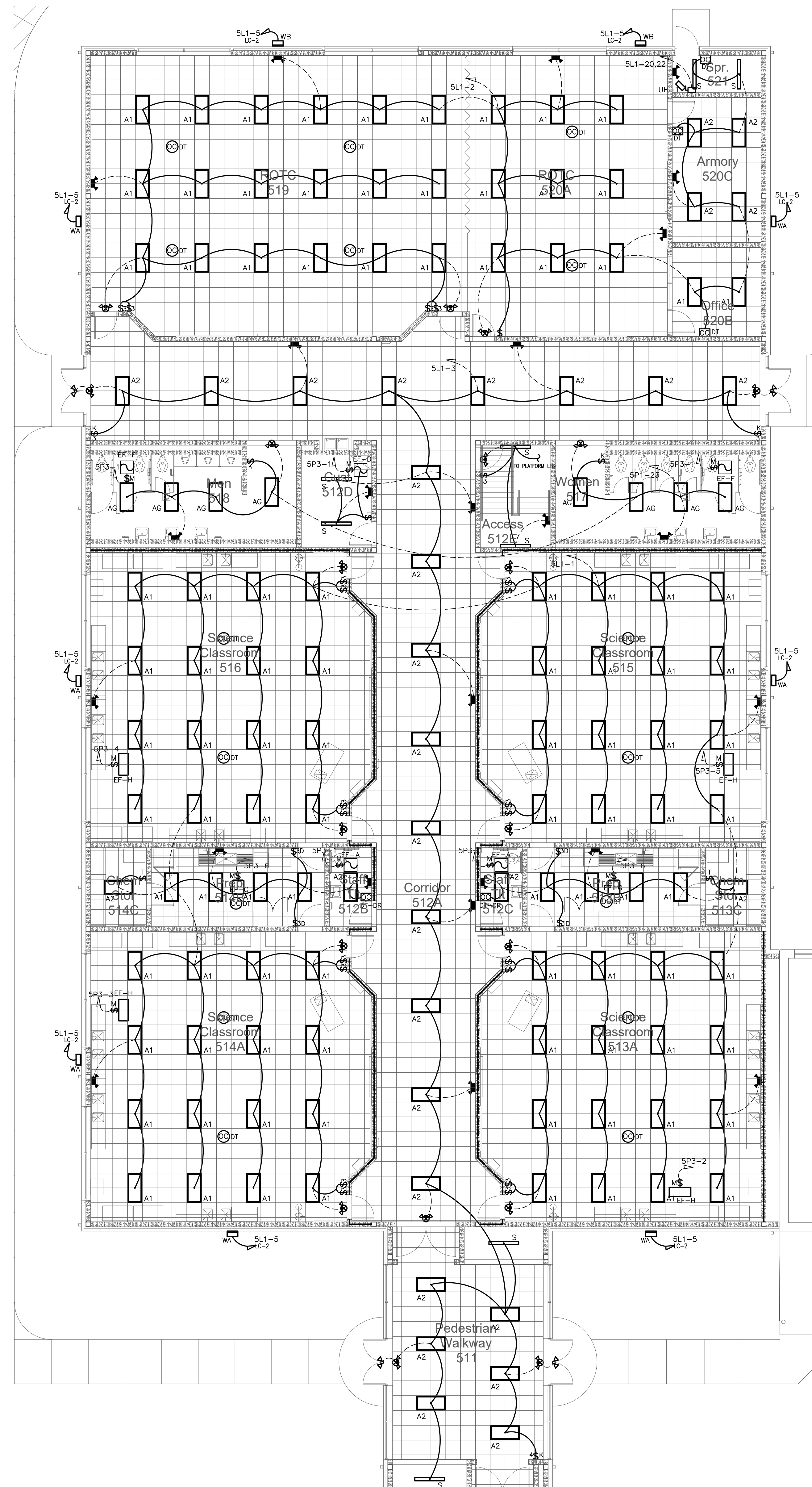
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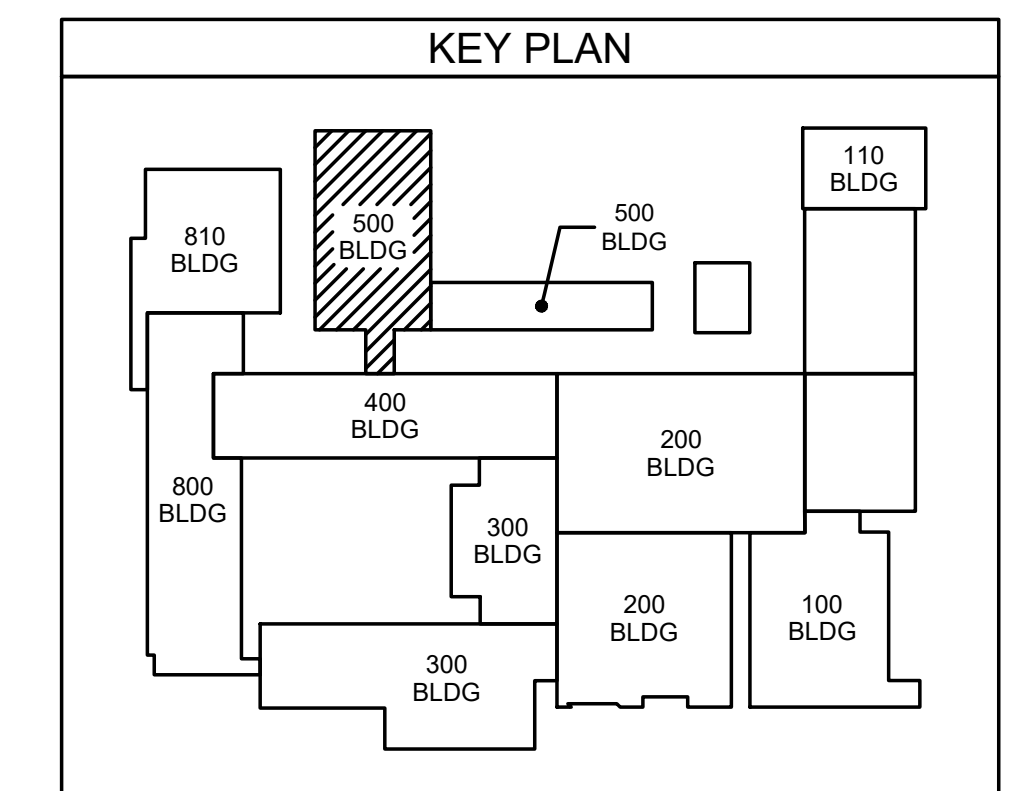
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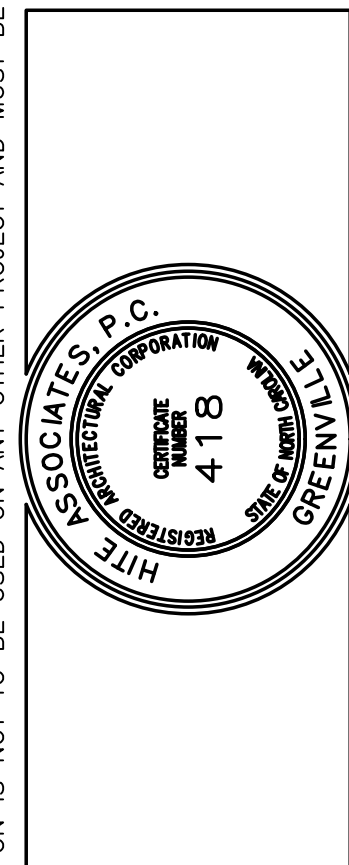
502.1 500 WING LIGHTING PLAN
SCALE: 1/8" = 1'-0"



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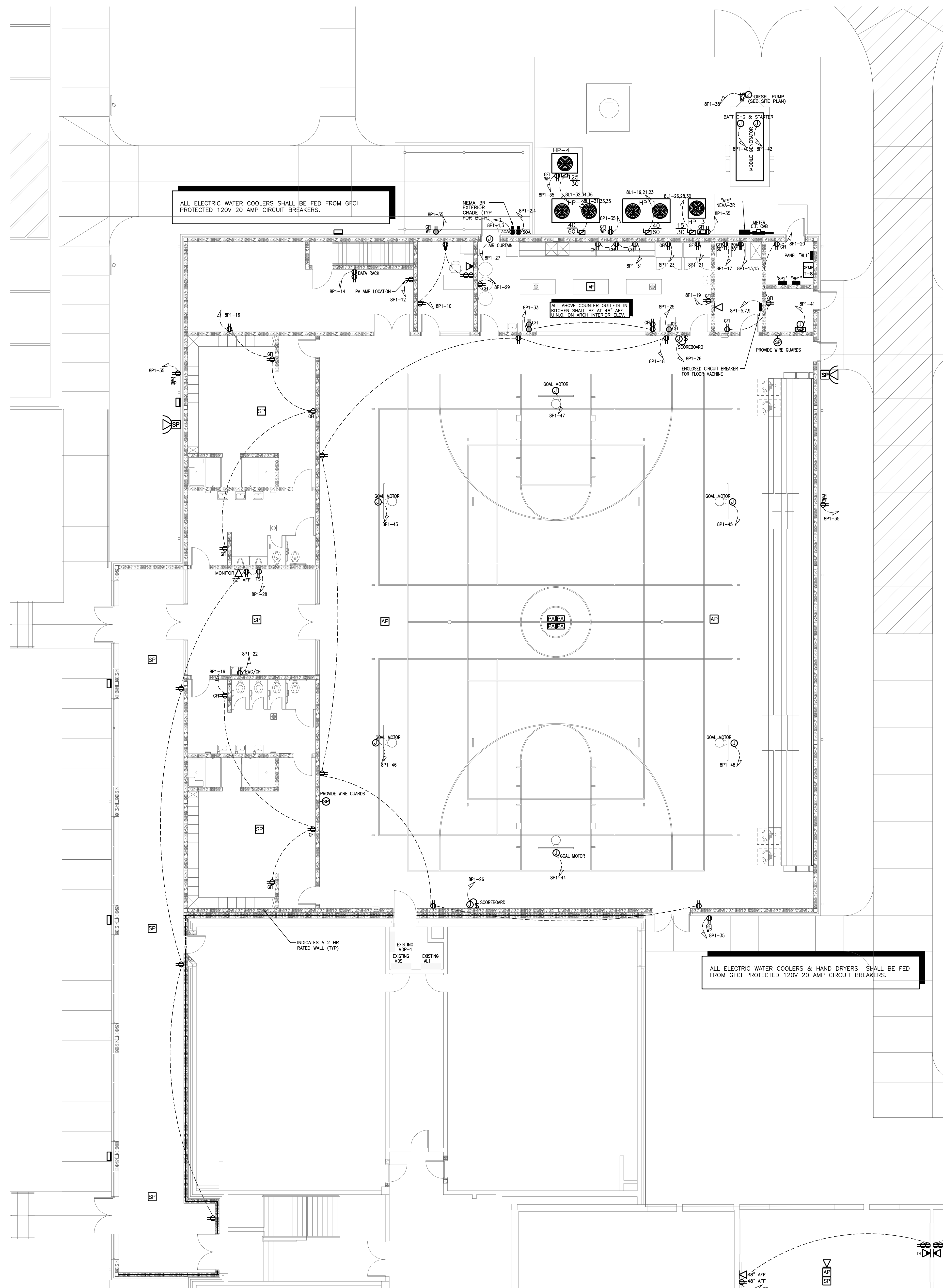
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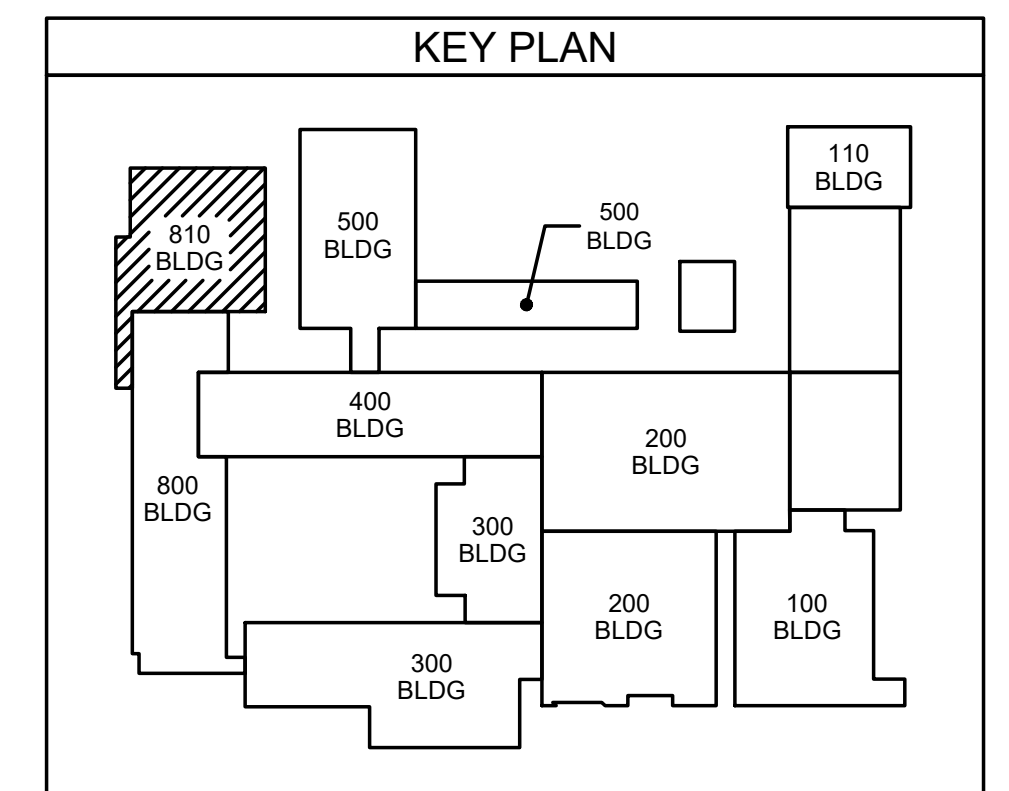
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811.1 NEW GYM POWER PLAN
SCALE: 1/8" = 1'-0"

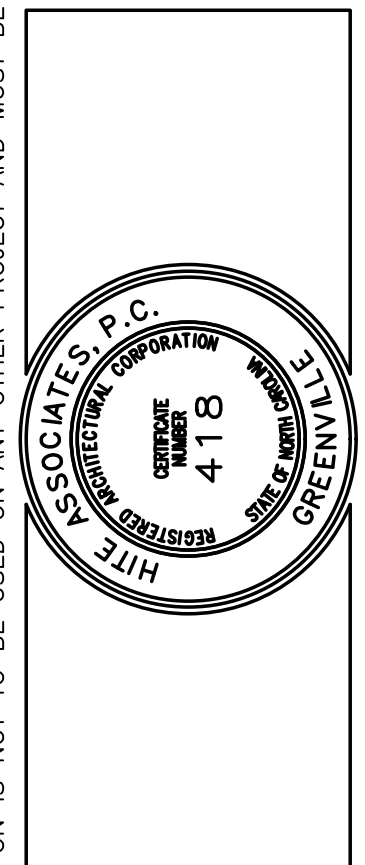


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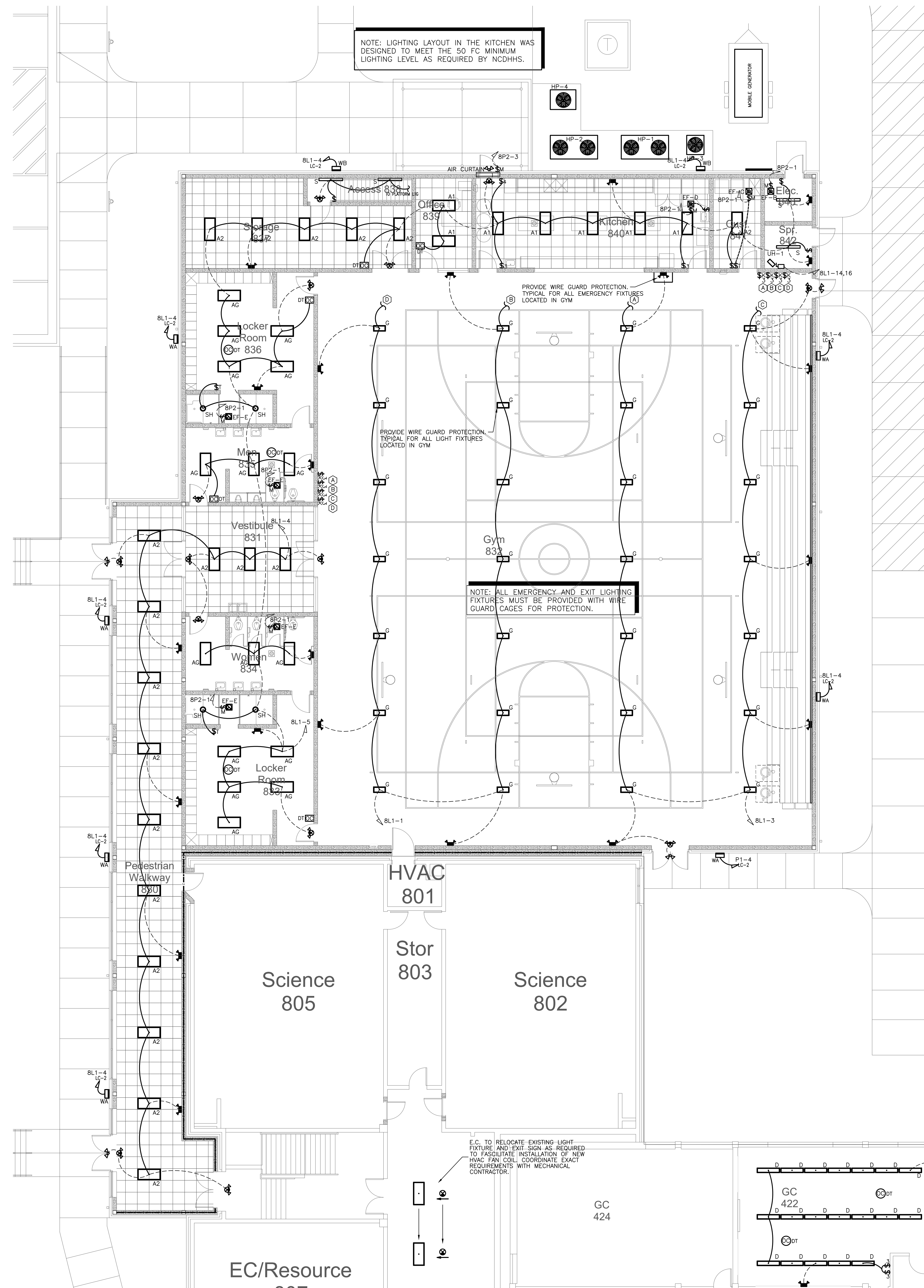
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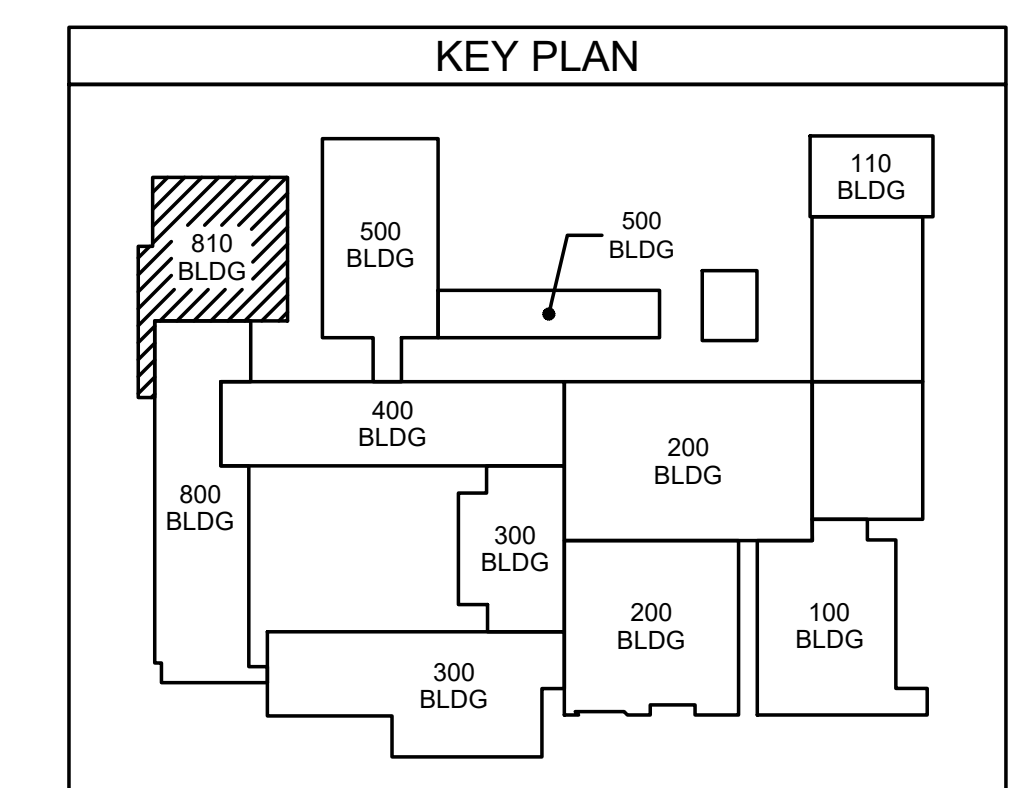
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812.1 NEW GYM LIGHTING PLAN
SCALE: 1/8" = 1'-0"



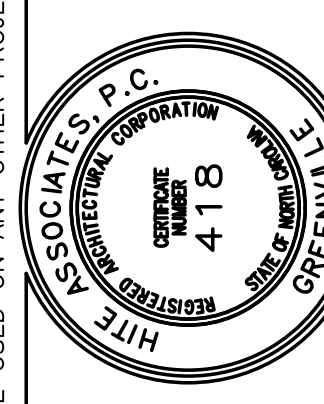
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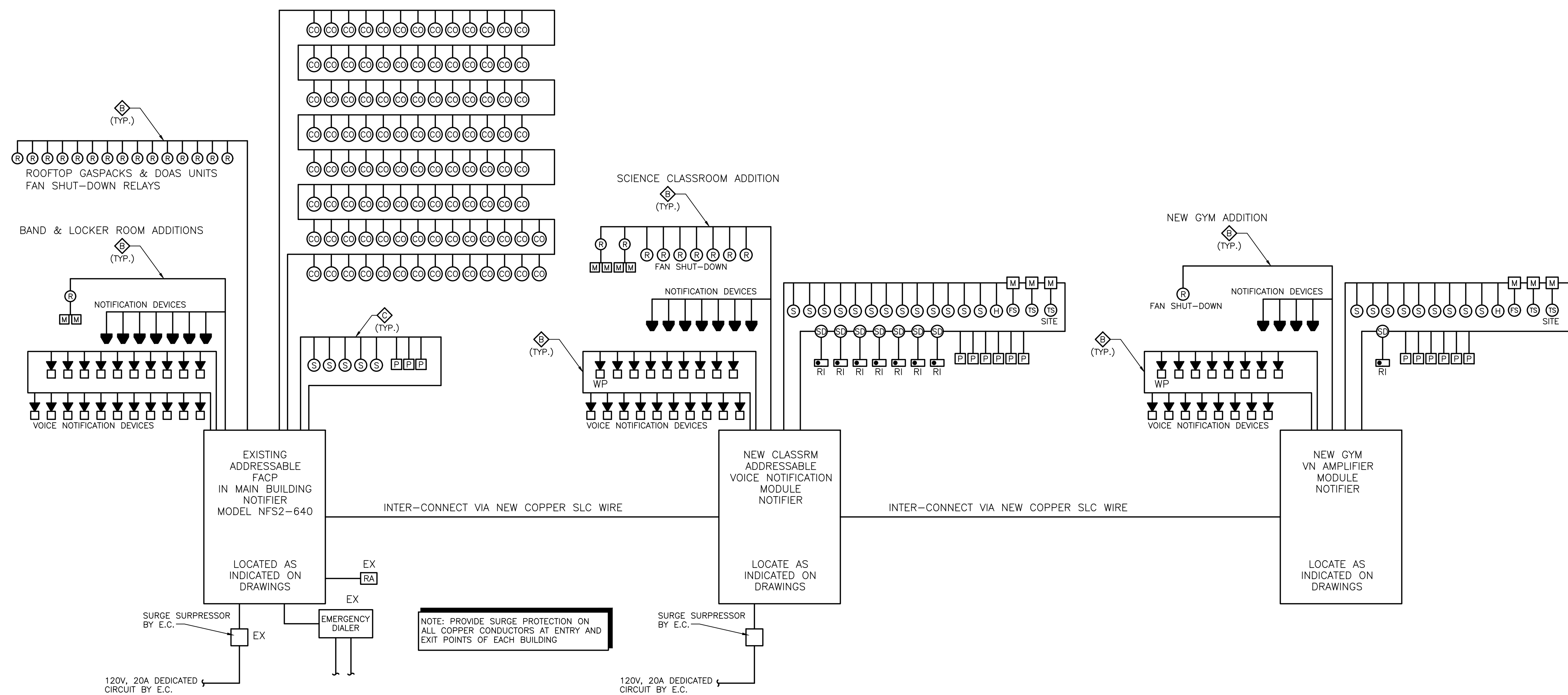
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No.	Date	Revision



FIRE ALARM SYMBOL LEGEND
(SEE MOUNTING HEIGHT SCHEDULE FOR MOUNTING INFORMATION UNLESS NOTED OTHERWISE)

- MANUAL PULL STATION WITH STOPPER II COVER
- WALL MOUNTED FIRE ALARM STROBE
- CEILING MOUNTED FIRE ALARM STROBE
- WALL MOUNTED FIRE ALARM VOICE/STROBE
- WALL MOUNTED FIRE ALARM STROBE
- CEILING MOUNTED FIRE ALARM STROBE
- WEATHERPROOF FIRE ALARM VOICE/STROBE
- SMOKE DETECTOR
- SMOKE DETECTOR - DUCT MOUNTED
- RATE OF RISE HEAT DETECTOR, CEILING MOUNTED
- CARBON MONOXIDE DETECTOR
- MAGNETIC DOOR HOLD OPEN DEVICE
- FIRE ALARM CONTROL PANEL, FLUSH MOUNTED
- REMOTE ANNUNCIATOR PANEL, FLUSH MOUNTED
- KNOX BOX (COORDINATE WITH LOCAL FIRE MARSHAL)
- BOOSTER POWER SUPPLY
- WATER FLOW SENSOR
- TAMPER SWITCH
- MONITOR MODULE
- RELAY
- DUCT MOUNTED SMOKE DETECTOR REMOTE INDICATOR LIGHT MOUNTED IN CEILING PROVIDED AND INSTALLED BY E.C., LABEL ACCORDING TO MECHANICAL UNIT SERVED.
- TELEPHONE OUTLET WITH COVER CONNECT TO EXISTING TELEPHONE SERVICE

FIRE ALARM INSTALLATION NOTES:

- FIRE ALARM SHALL BE INSTALLED BY A MANUFACTURER APPROVED INSTALLATION COMPANY.
- E.C. OR E.C.'S REPRESENTATIVE SHALL PERFORM THOROUGH TRAINING WITH OWNER'S REPRESENTATIVES PRIOR TO OWNER OCCUPANCY OF THE BUILDING.
- FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE TO ALL APPLICABLE STATE AND LOCAL LAWS AND IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 72.
- ALARM SHALL HAVE A SOUND LEVEL MEETING THE dB REQUIREMENTS OF 907.6.2.1.1 OF THE NC FIRE PREVENTION CODE AND NOT LESS THAN 20 dB ABOVE AMBIENT NOISE LEVELS. (TYPICALLY, 55 dB AMBIENT NOISE PER BUSINESS OCCUPANCY. ADJUST FOR NOISY CLASSRM ENVIRONMENTS).
- ANY WIRING INSTALLED IN RETURN AIR PLENUM SHALL BE EITHER PLENUM-RATED CABLE OR IN CONDUIT. WIRING INSTALLED IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.
- FIRE ALARM CONTRACTOR SHALL PROVIDE A FULL SET OF SHOP DRAWINGS, INCLUDING BATTERY CALCULATIONS, WIRING DIAGRAMS, AND DEVICE PRODUCT DATA TO THE AHJ FOR REVIEW AND APPROVAL PRIOR TO STARTING ROUGH-INS.
- E.C. SHALL PROVIDE FRAMED BUILDING LAYOUT NEXT TO REMOTE ANNUNCIATOR. BUILDING LAYOUT SHALL SHOW ALL FIRE ALARM DEVICE LOCATIONS AND THEIR RESPECTIVE ADDRESSES.
- PROVIDE TAMPER DEVICE AT SPRINKLER SYSTEM HOTBOX, IF APPLICABLE. COORD HOTBOX LOCATION WITH CIVIL SITE PLAN.
- E.C. SHALL BE RESPONSIBLE FOR DEMOLISHING EXISTING FIRE ALARM SYSTEM AND/OR ASSOCIATED DEVICES, WIRING, AND CONDUIT (AS REQUIRED) IF PLANS INDICATE A NEW FIRE ALARM SYSTEM AND DEVICES TO BE INSTALLED.
- IN EDUCATION FACILITIES, ALL PULL STATIONS SHALL HAVE PROTECTIVE POLYCARBONATE COVER PROVIDED AND INSTALLED. COVER SHALL BE STI STOPPER II OR EQUIVALENT APPROVED BY DESIGNER.
- NEW GYM FACP MUST BE CAPABLE OF FUNCTIONING INDEPENDENTLY OF THE GYM SYSTEM WHEN GYM IS USED AS A STORM SHELTER AND BE INTEGRAL TO THE MAIN SYSTEM WHEN FUNCTIONING AS PART OF THE SCHOOL.
- FIRE ALARM SYSTEM SHALL BE NOTIFIER TO MATCH WITH EXISTING CAMPUS SYSTEM. SEE RISER.
- FA CONTRACTOR SHALL INCLUDE BDA TESTING IN THEIR CONTRACT.
- REFER TO ALLOWANCES SECTION OF THE SPECIFICATIONS FOR BDA EQUIPMENT ALLOWANCE CARRIED BY G.C.

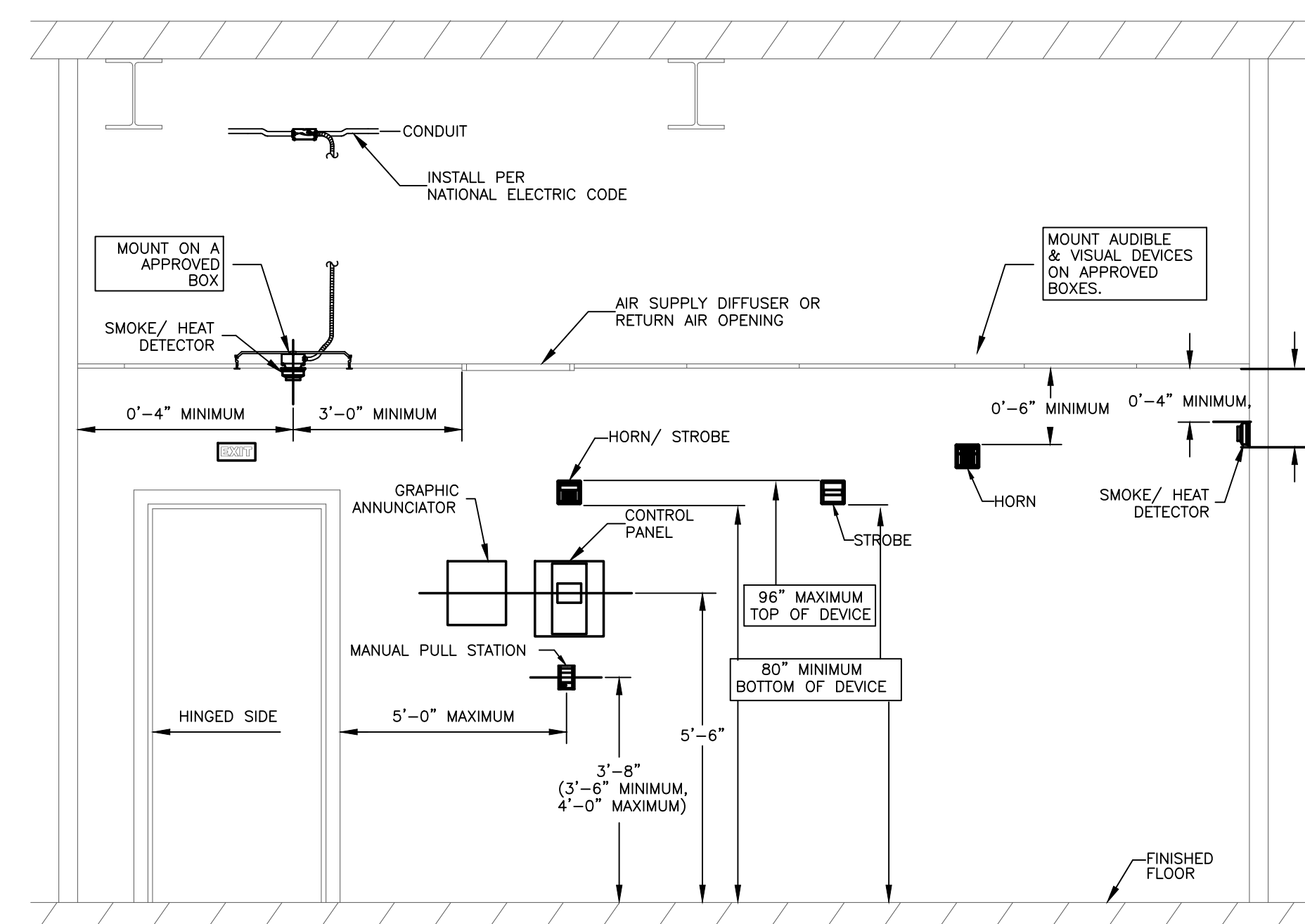
WIRE LEGEND

- 1 PAIR #16 SHIELDED CABLE
- 2 COND. #14 THHN
- 4 COND. #14 THHN
- 8 COND. #22
- 2 PAIR #18 SHIELDED + 2 COND. #14 THHN

WALL LEGEND

- 8" NON-RATED WALL
- SMOKE TIGHT CONSTRUCTION WALLS AND CEILING
- ONE HOUR RATED FIRE BARRIER
- TWO HOUR RATED FIRE BARRIER

NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS



001.2 FIRE ALARM DEVICE MOUNTING DETAIL
SCALE: NTS

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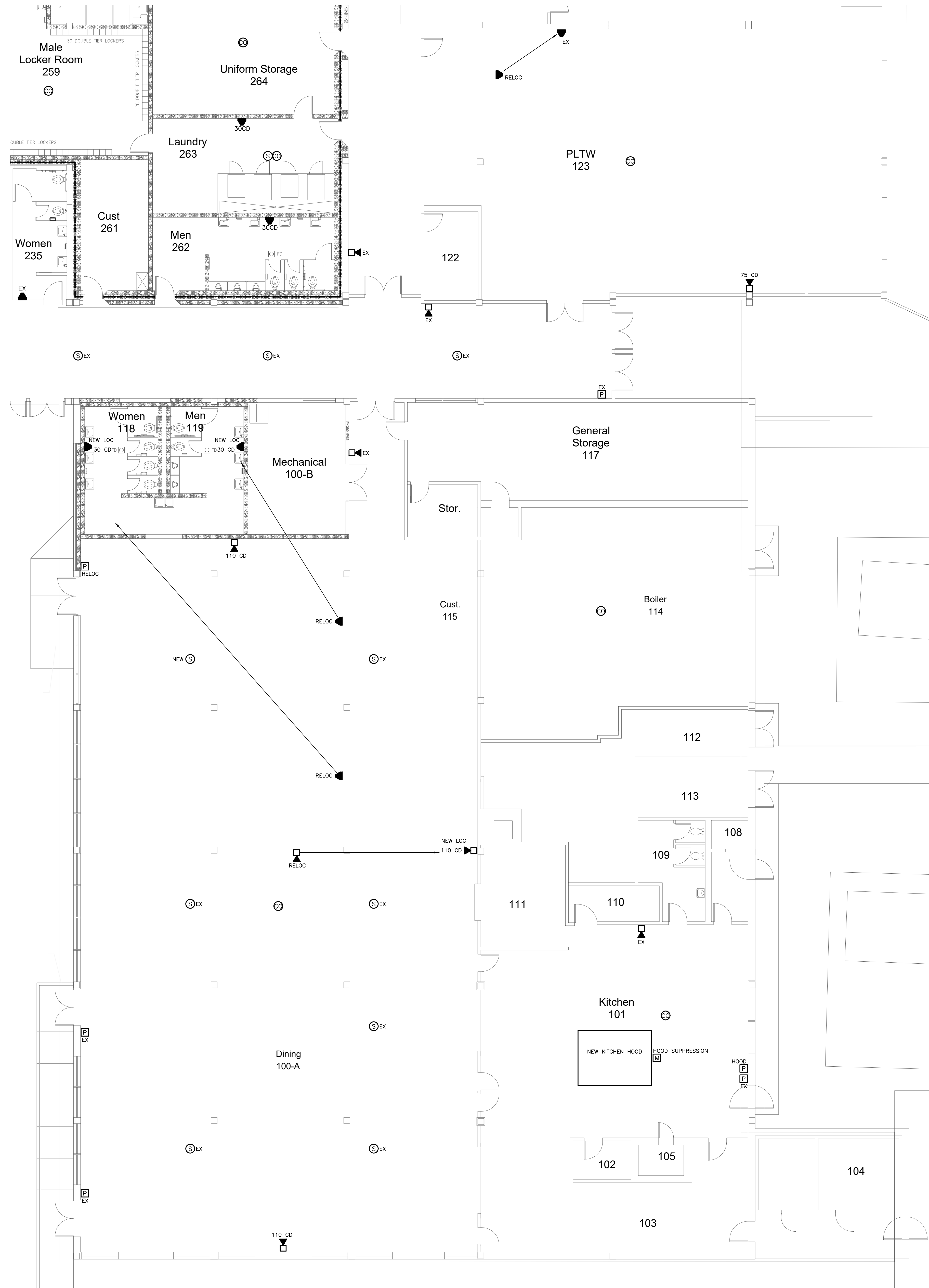
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New Additions & Renovations to
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Carteret County Schools / North Carolina

Project No. 22112
Date: 03 Oct 2023
Drawing no. FA 001

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DATE: 10/23/23
BY: [Signature]

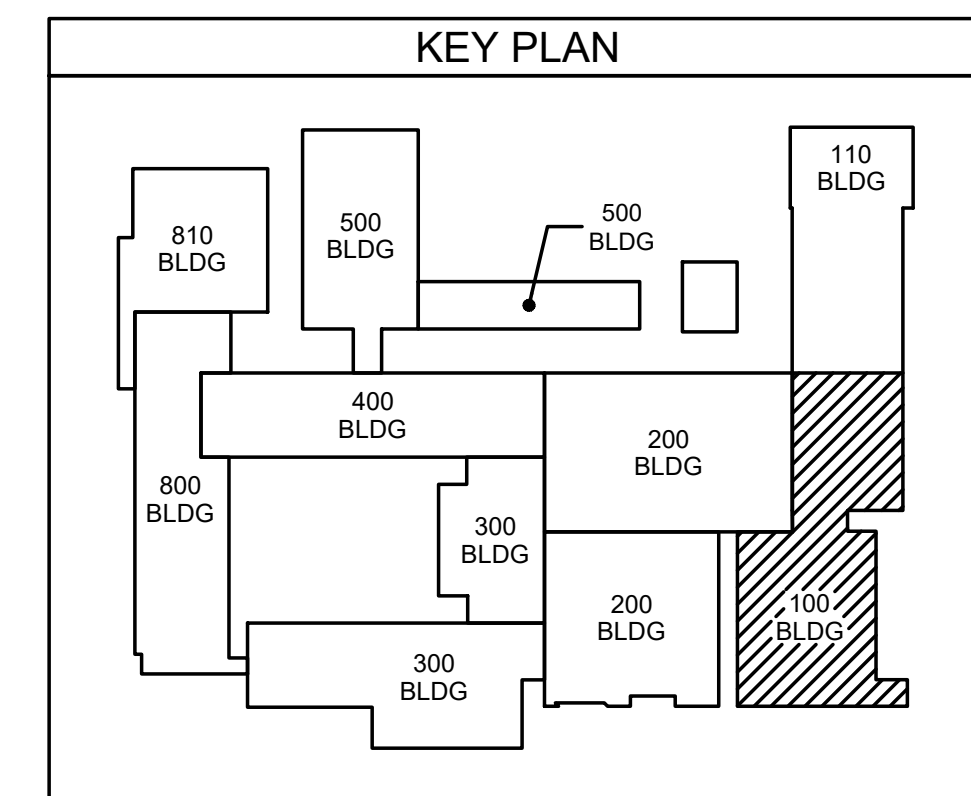


FIRE ALARM SYMBOL LEGEND
 (SEE MOUNTING HEIGHT SCHEDULE FOR MOUNTING INFORMATION UNLESS NOTED OTHERWISE)

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- WP WEATHERPROOF FIRE ALARM VOICE/STROBE
- SMOKE DETECTOR
- RATE OF RISE HEAT DETECTOR, CEILING MOUNTED
- CARBON MONOXIDE DETECTOR
- MAGNETIC DOOR HOLD OPEN DEVICE
- FACP FIRE ALARM CONTROL PANEL, FLUSH MOUNTED
- RA REMOTE ANNUNCIATOR PANEL, FLUSH MOUNTED
- KX KNOX BOX (COORDINATE WITH LOCAL FIRE MARSHALL)
- BPS BOOSTER POWER SUPPLY
- WS WATER FLOW SENSOR
- TS TAMPERSWITCH
- MM MONITOR MODULE
- R RELAY
- DUCT MOUNTED SMOKE DETECTOR REMOTE INDICATOR LIGHT MOUNTED IN CEILING PROVIDED AND INSTALLED BY E.C. LABEL ACCORDING TO MECHANICAL UNIT SERVED
- TELEPHONE OUTLET WITH COVER CONNECT TO EXISTING TELEPHONE SERVICE

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8. PROVIDE TAMPERSWITCH AT SPRINKLER SYSTEM HOTBOX, IF APPLICABLE. COORD HOTBOX LOCATION WITH CIVIL SITE PLAN.
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11. NEW CYM FACP MUST BE CAPABLE OF FUNCTIONING INDEPENDENTLY OF THE MAIN SYSTEM WHEN CYM IS USED AS A STORM SHELTER AND BE INTEGRAL TO THE MAIN SYSTEM WHEN FUNCTIONING AS PART OF THE SCHOOL.
12. FIRE ALARM SYSTEM SHALL BE NOTIFIER TO MATCH WITH EXISTING CAMPUS SYSTEM. SEE RISER.
13. FA CONTRACTOR SHALL INCLUDE BDA TESTING IN THEIR CONTRACT.
14. REFER TO ALLOWANCES SECTION OF THE SPECIFICATIONS FOR BDA EQUIPMENT ALLOWANCE CARRIED BY G.C.



101.1 CAFETERIA FIRE ALARM PLAN
 SCALE: 1/8" = 1'-0"

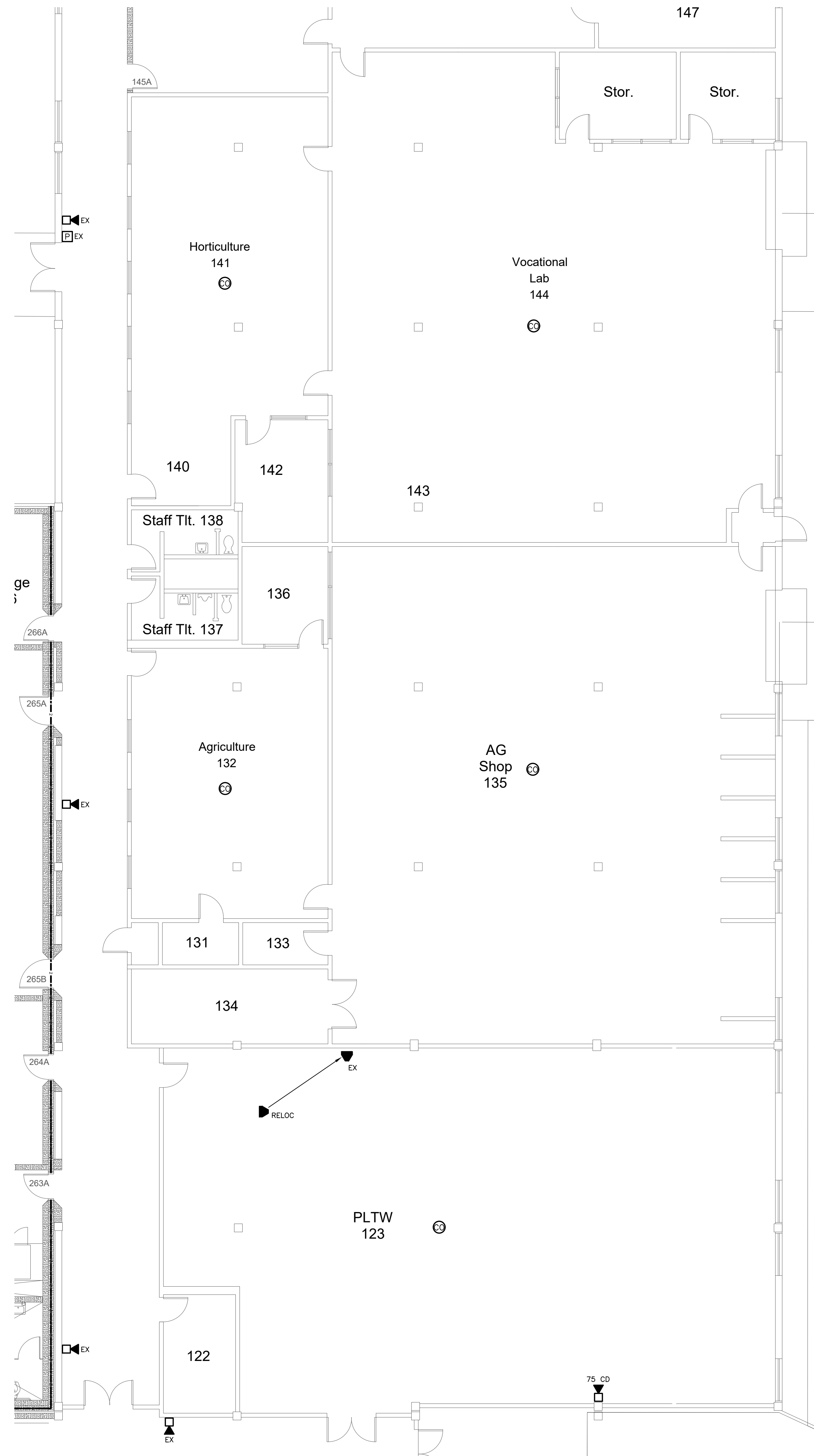
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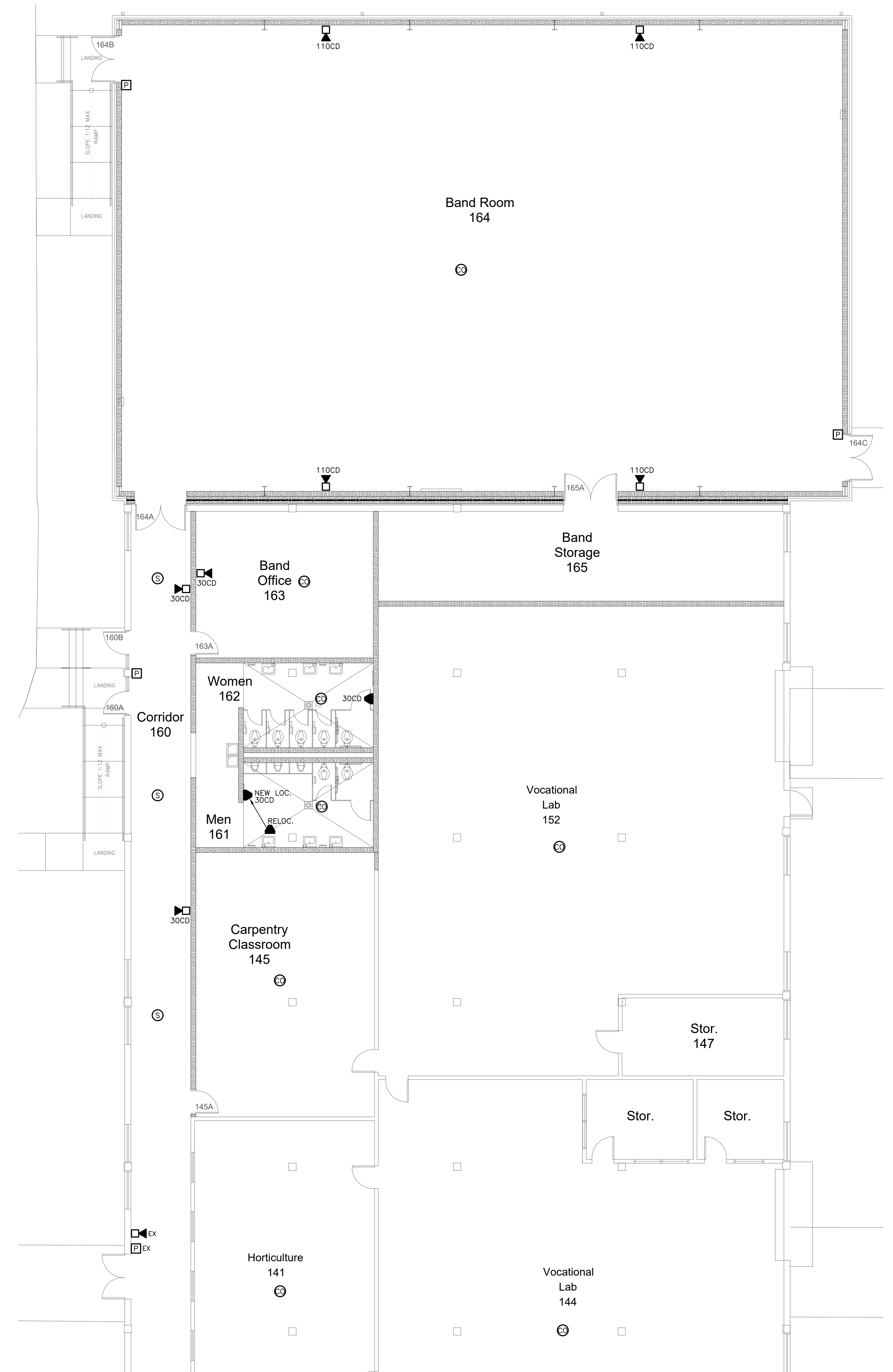
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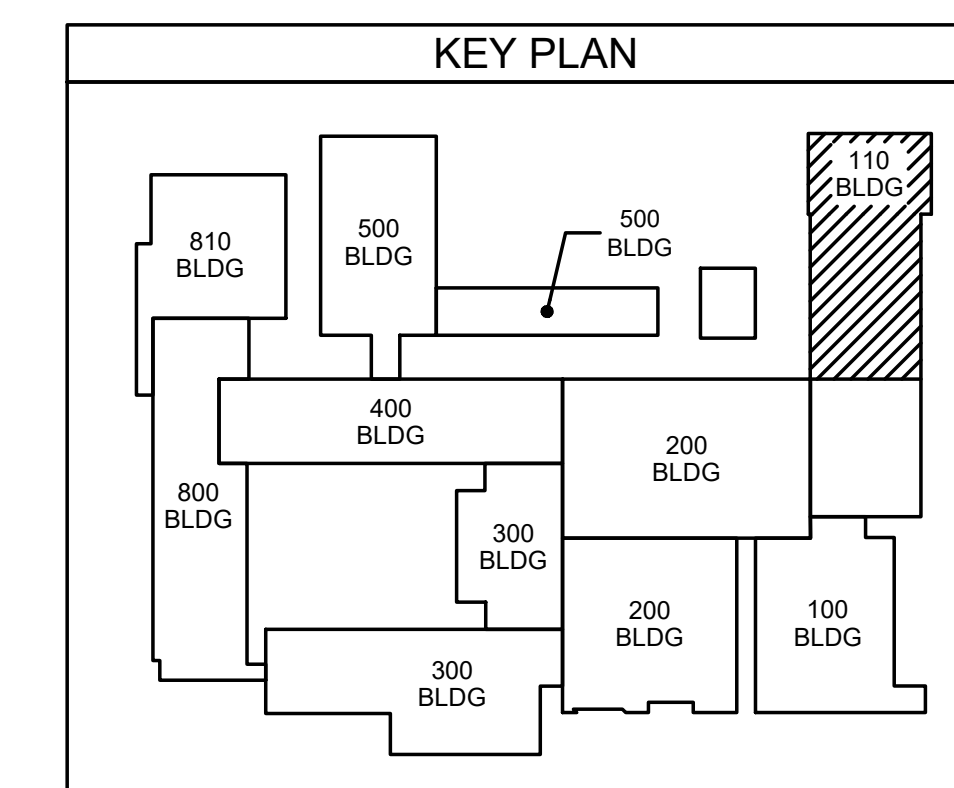
Project No. 22112	Date: 03 Oct 2023
Drawing no. FA 101	Revision:



111.2 VOCATIONAL BUILDING FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



111.1 BAND RM ADD'N FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



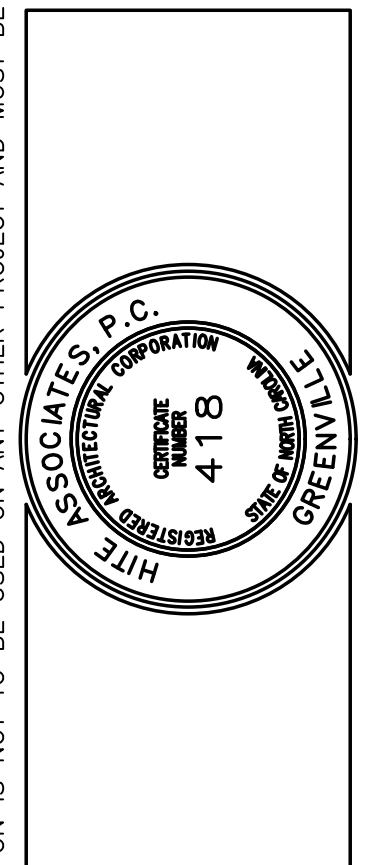
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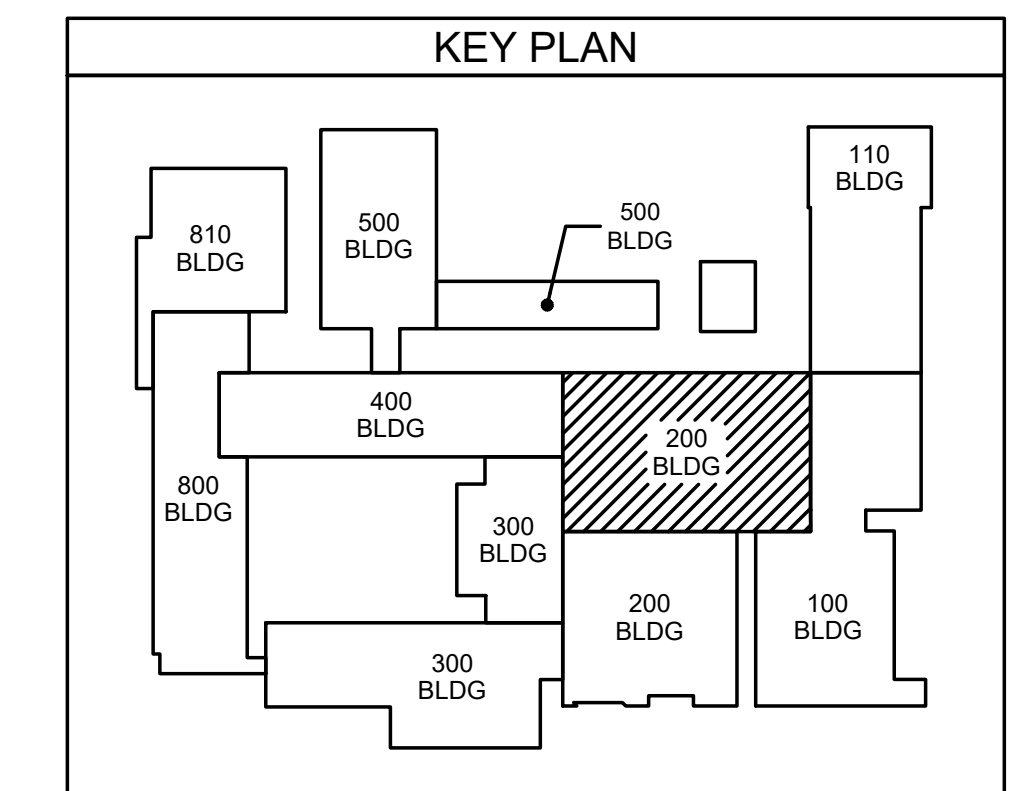
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201.1 LOCKER ROOM FIRE ALARM PLAN
 SCALE: 1/8" = 1'-0"



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 State of North Carolina
 License No. 4118
 Date: 10/23/23

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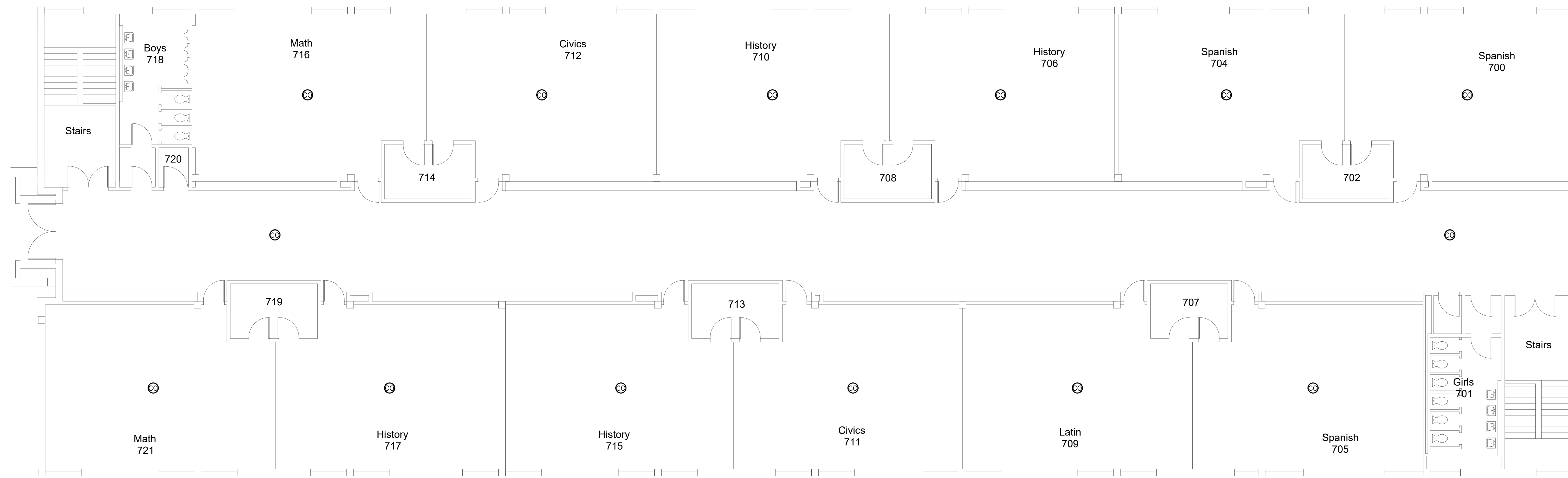
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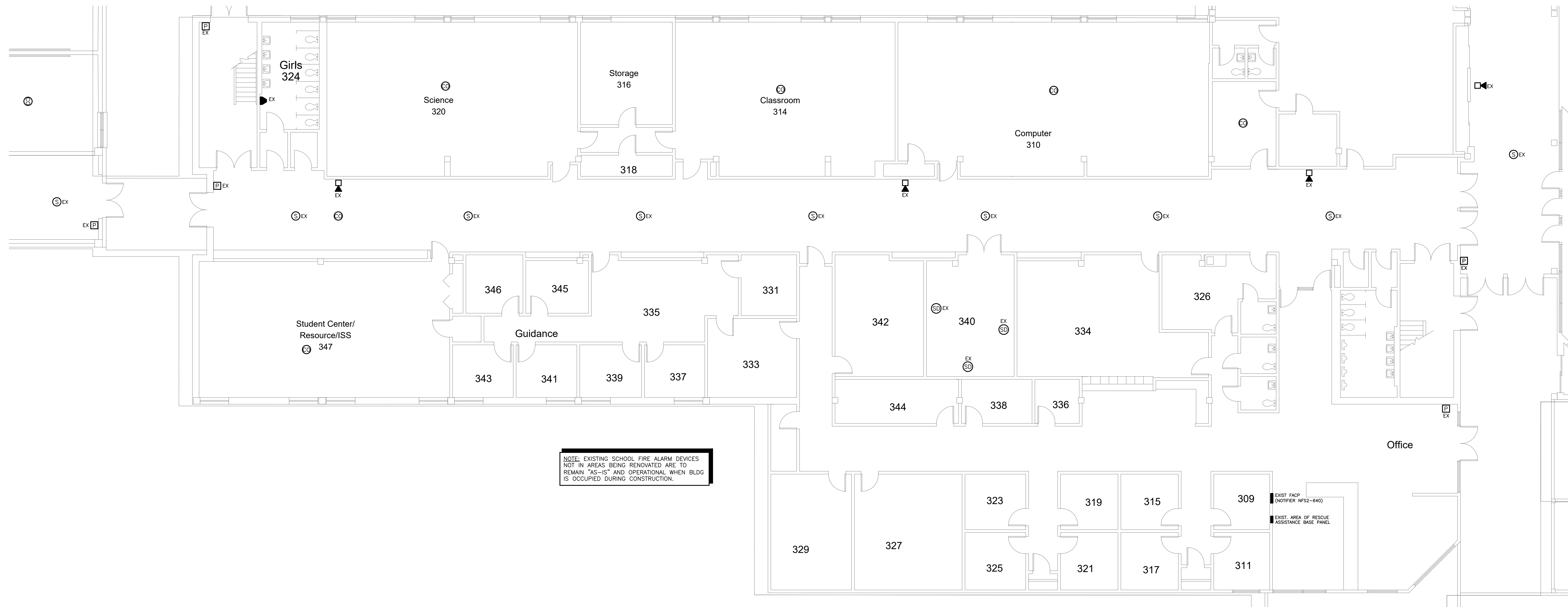
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 State of North Carolina
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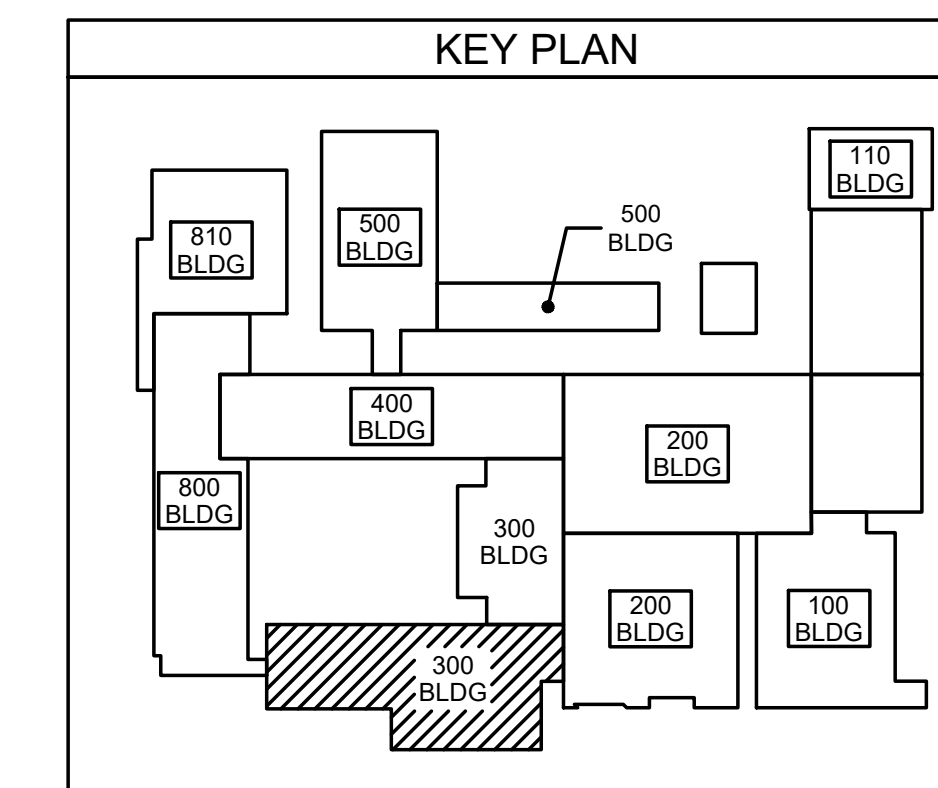
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 Date: 03 Oct 2023
 Drawing no. **FA 201**



301.2 700 BUILDING FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



301.1 300 BUILDING FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



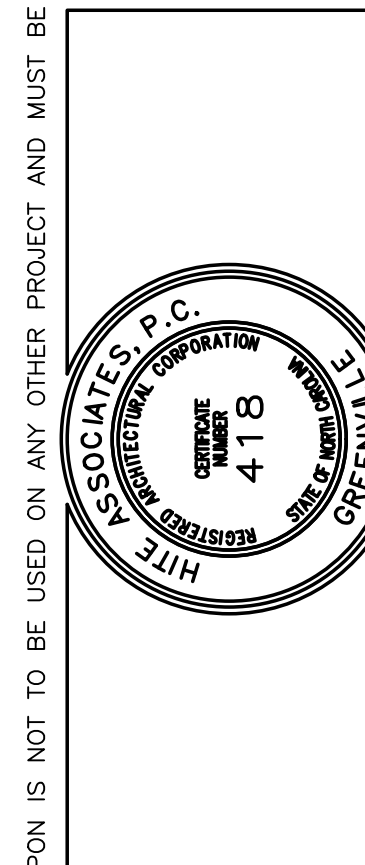
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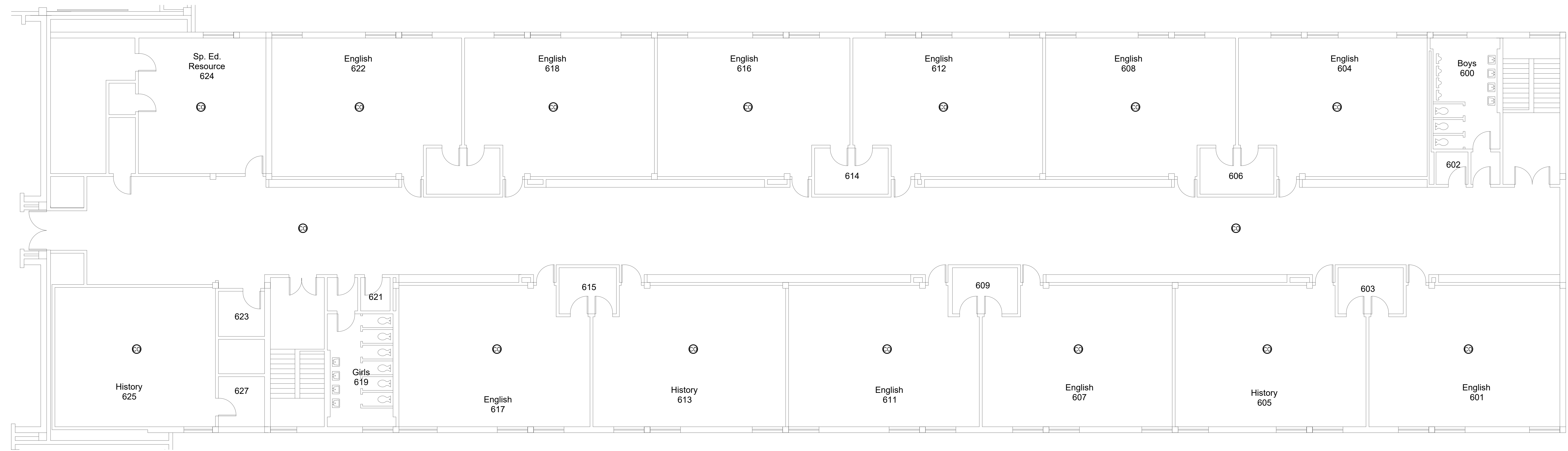
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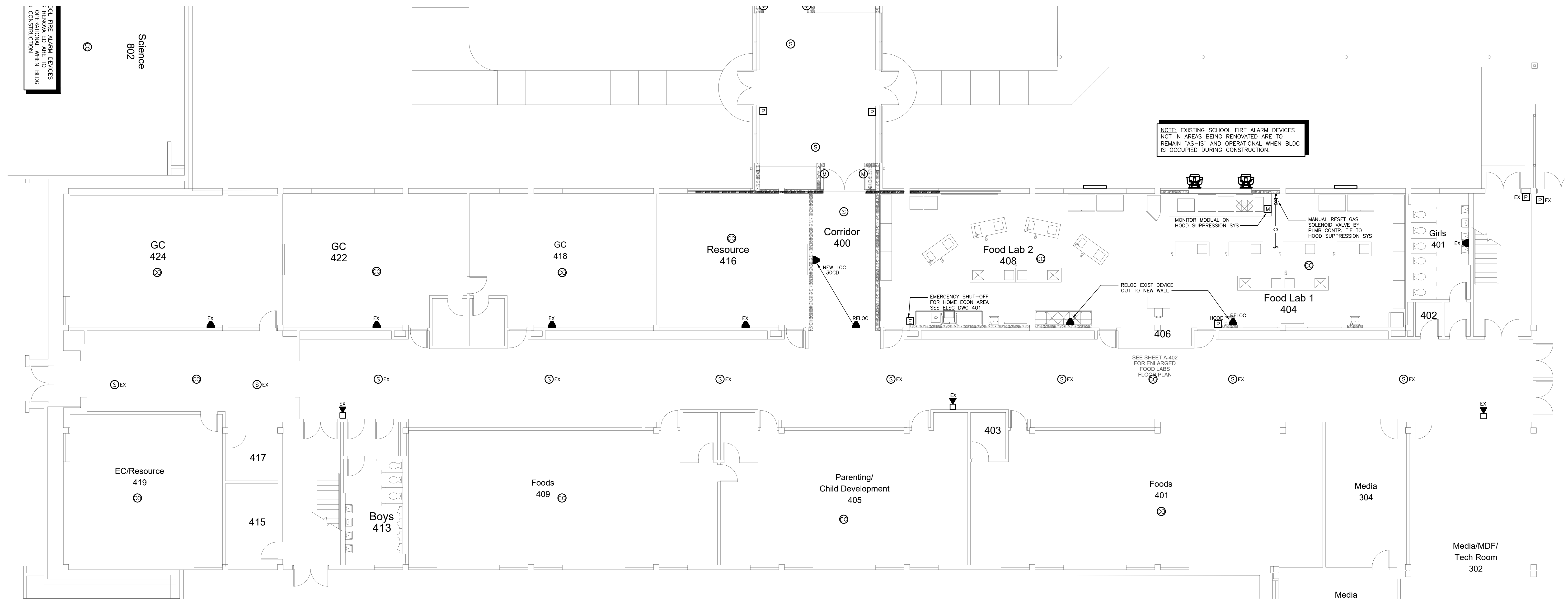
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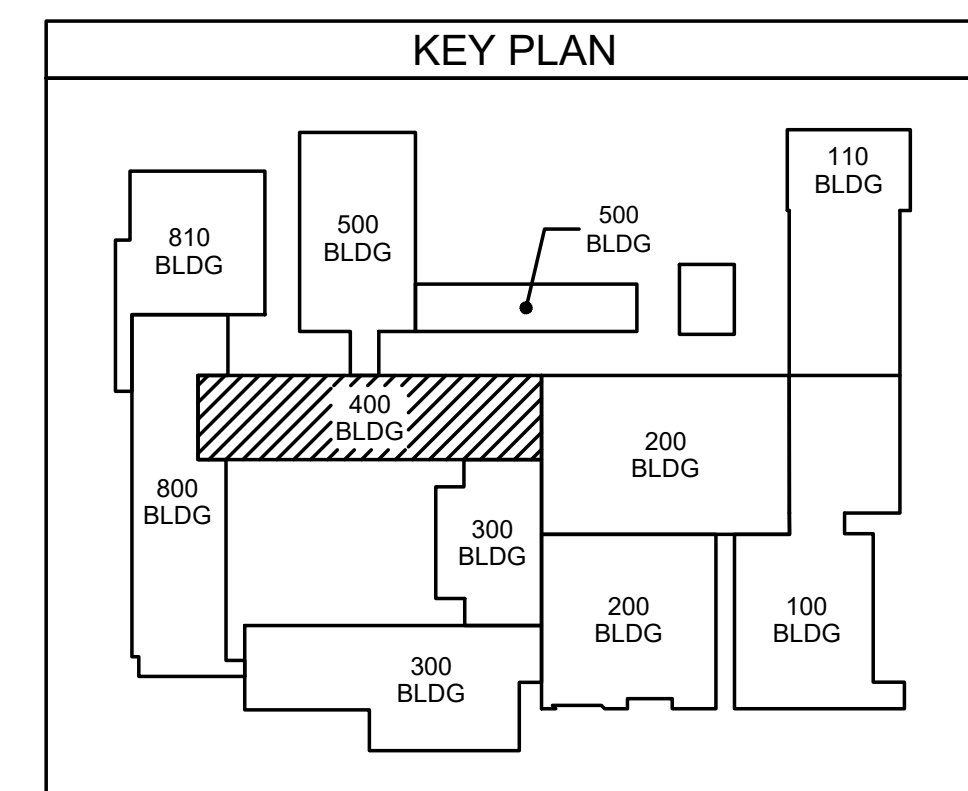
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401.2 600 WING FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



401.1 400 WING FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



DO NOT REMOVE FIRE ALARM DEVICES FROM AREAS BEING RENOVATED OR FROM AREAS TO REMAIN "AS-IS" AND OPERATIONAL WHEN BLDG IS OCCUPIED DURING CONSTRUCTION.

NOTE: EXISTING SCHOOL FIRE ALARM DEVICES NOT IN AREAS BEING RENOVATED ARE TO REMAIN "AS-IS" AND OPERATIONAL WHEN BLDG IS OCCUPIED DURING CONSTRUCTION.

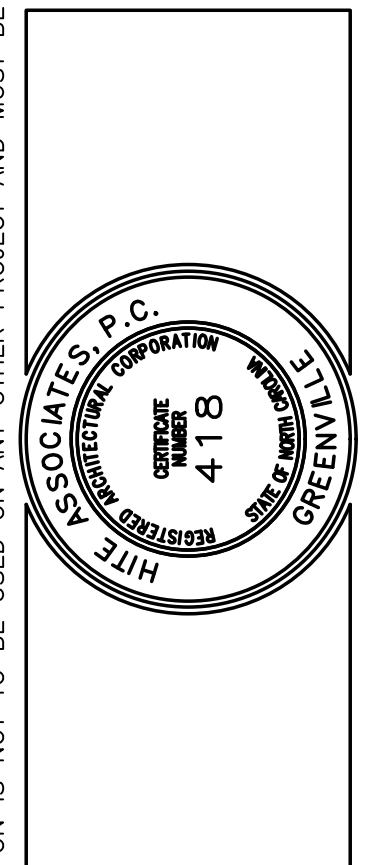
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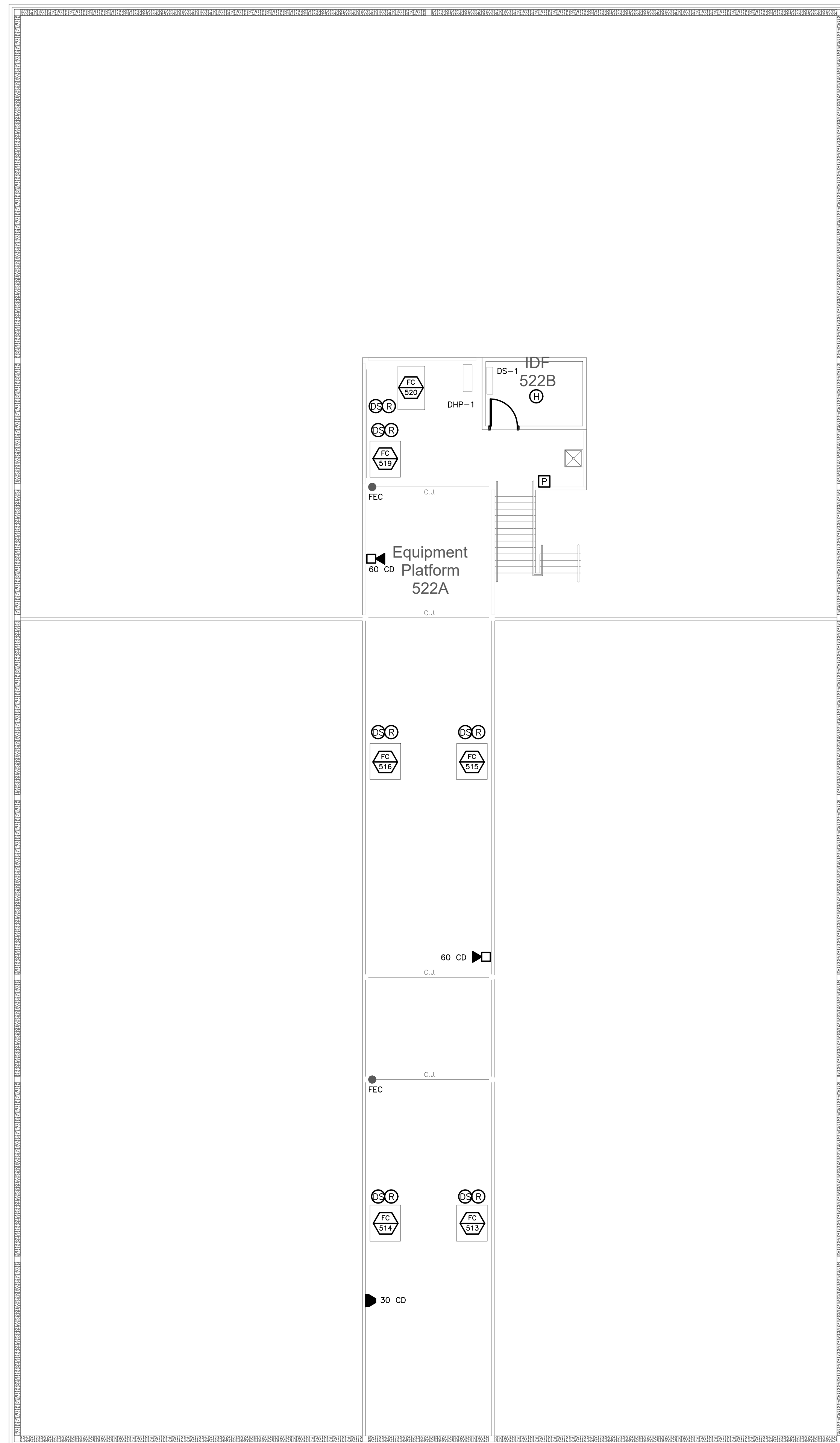
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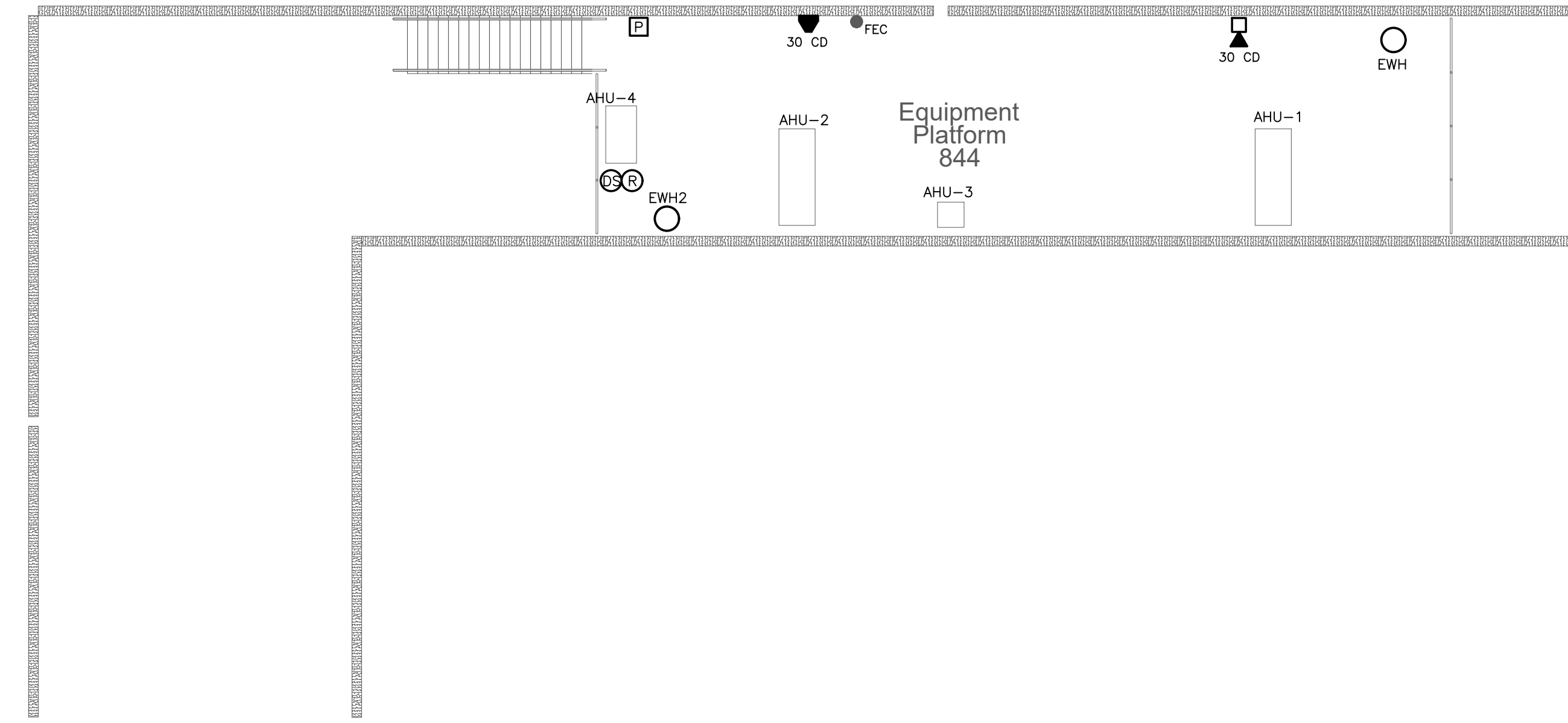
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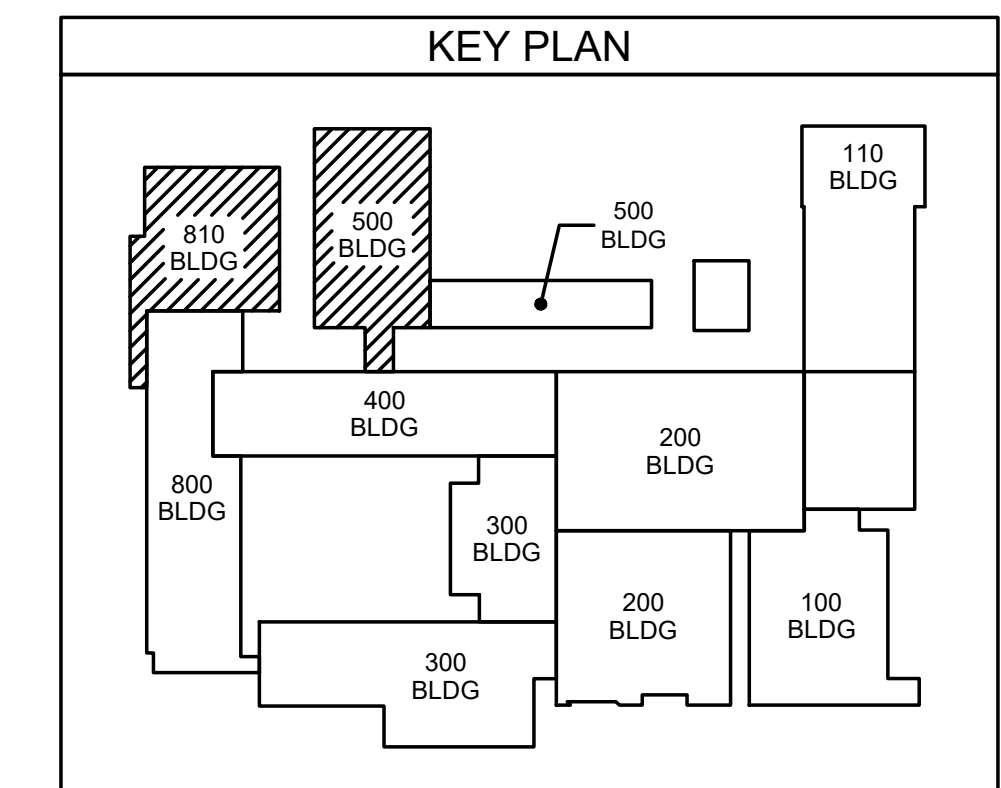
502.1 SCIENCE CLASSROOM PLATFORM PLAN
SCALE: 1/8" = 1'-0"



502.2 GYM PLATFORM PLAN
SCALE: 1/8" = 1'-0"

FIRE ALARM SYSTEM ACTION MATRIX		NEW SECONDARY PANEL (NEW GYM) - SYSTEM ACTION																				
		ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE VOICE NOTIFICATION	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE APPROPRIATE LOCATION INDICATOR	ACTUATE ALL AUDIBLE EVACUATION SIGNALS	ACTUATE ALL VISIBLE EVACUATION SIGNALS	DISPLAY / PRINT CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO PRIMARY FACP (ADMIN)	TRANSMIT SUPERVISORY SIGNAL TO PRIMARY FACP (ADMIN)	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	FAN SHUT DOWN (SPECIFIC UNITS WING)	FAN SHUT DOWN (UNIVERSAL)	GYM PA SYSTEM SHUT DOWN	DAMPER SHUT DOWN	RELEASE MAGNETIC DOORS	FIRE SHUTTERS	COMMENTS/REMARKS
INITIATING DEVICE OR CONDITION	MANUAL ALARM STATION	X	X	X				X	X	X	X	X					X	X	X	X	X	
	SMOKE SENSOR / DETECTOR	X	X	X				X	X	X	X	X								X	X	
	DUCT SENSOR / DETECTOR				X	X			X	X	X	X		X						X	X	
	WATERFLOW SWITCH	X	X	X					X	X	X	X			X					X	X	
	TAMPER SWITCH				X	X			X			X		X								X
	POST INDICATOR VALVE SWITCH				X	X			X			X		X								
	FIRE ALARM AC POWER FAILURE							X	X			X										
	FIRE ALARM SYSTEM LOW BATTERY							X	X			X										
	OPEN CIRCUIT							X	X			X										
	GROUND FAULT							X	X			X										
	NOTIFICATION APPLIANCE CIRCUIT							X	X			X										
	WIRE-TO-WIRE SHORT											X										

NOTE: IT IS THE INTENT OF THESE PLANS TO HAVE THE ENTIRE CAMPUS ALARM REGARDLESS OF WHICH PANEL INITIATES THE ALARM SIGNAL. THE NEW ADDITIONS SHALL BE VOICE NOTIFICATION (VOICE & STROBE) AND THE EXISTING SHALL REMAIN CONVENTIONAL NOTIFICATION (HORN & STROBE)



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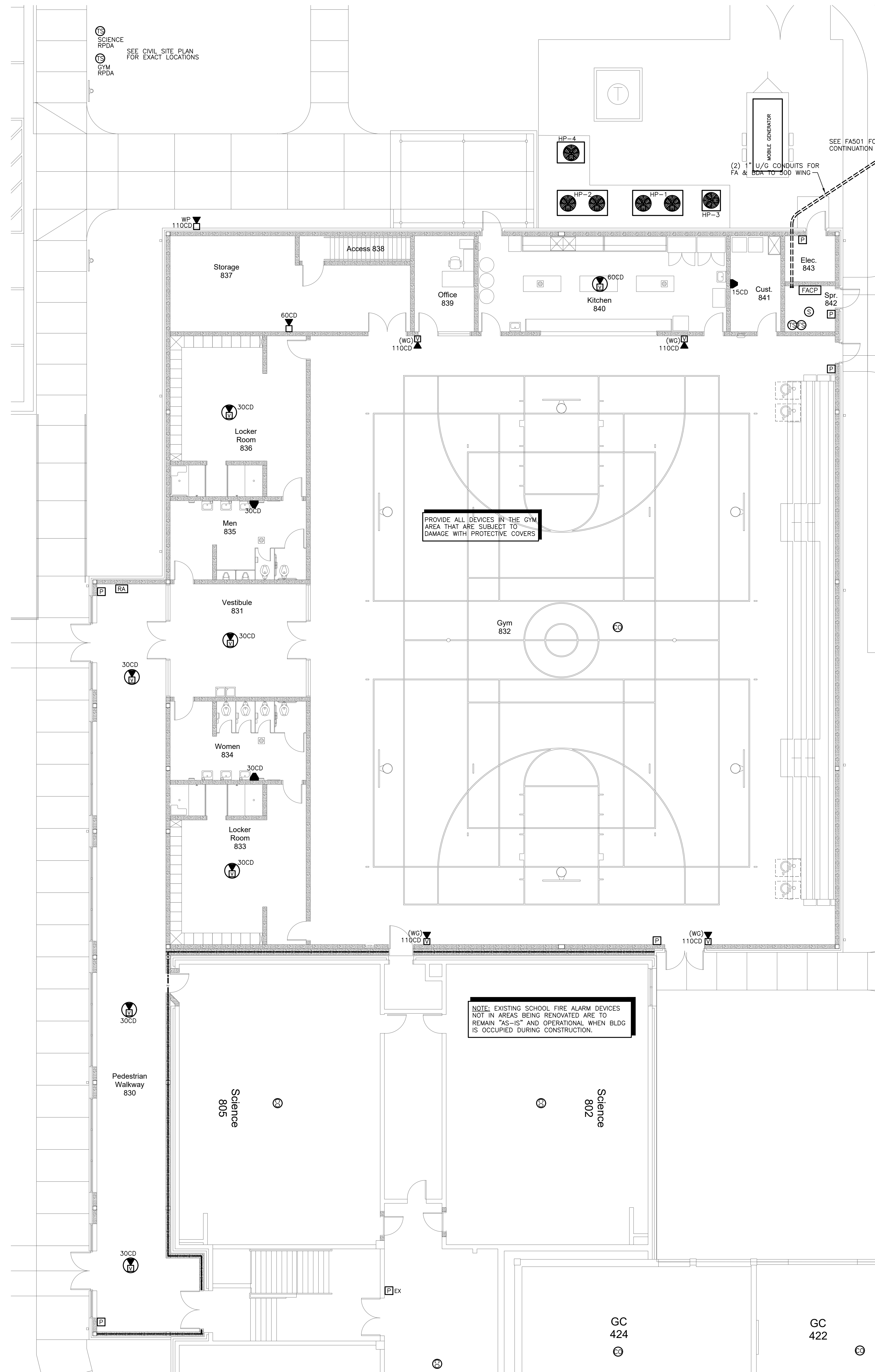
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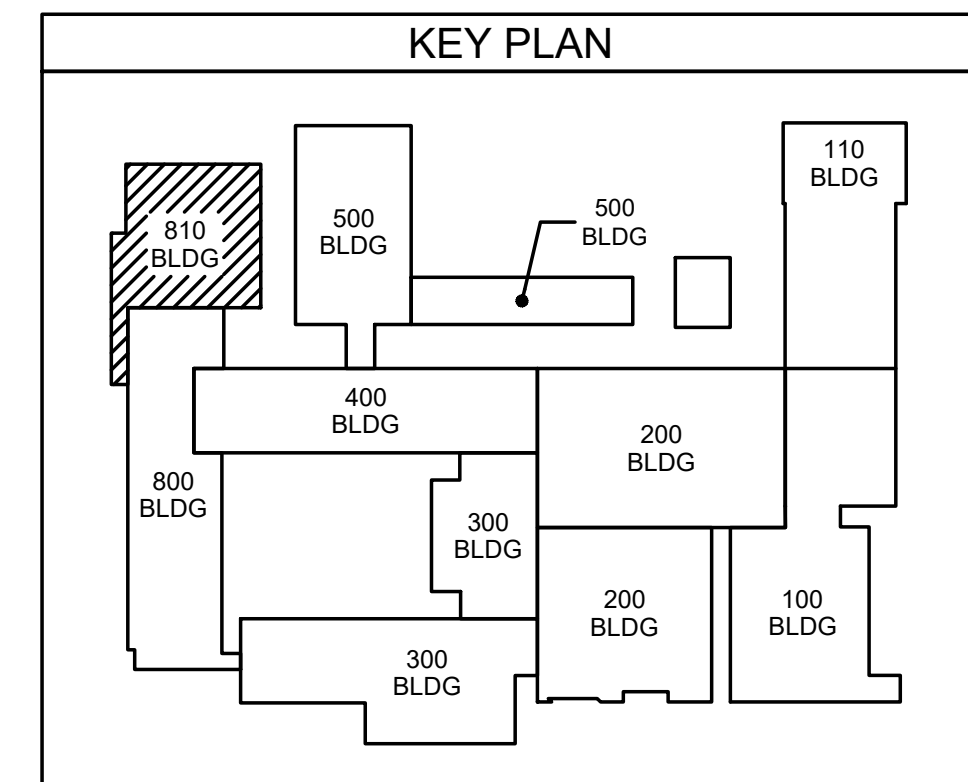
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811.1 GYM FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

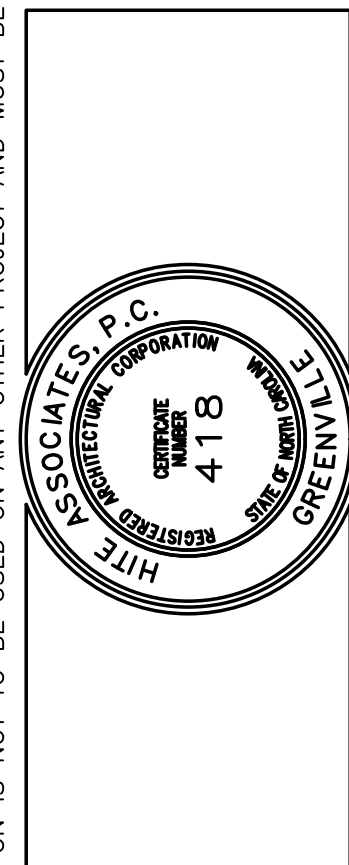


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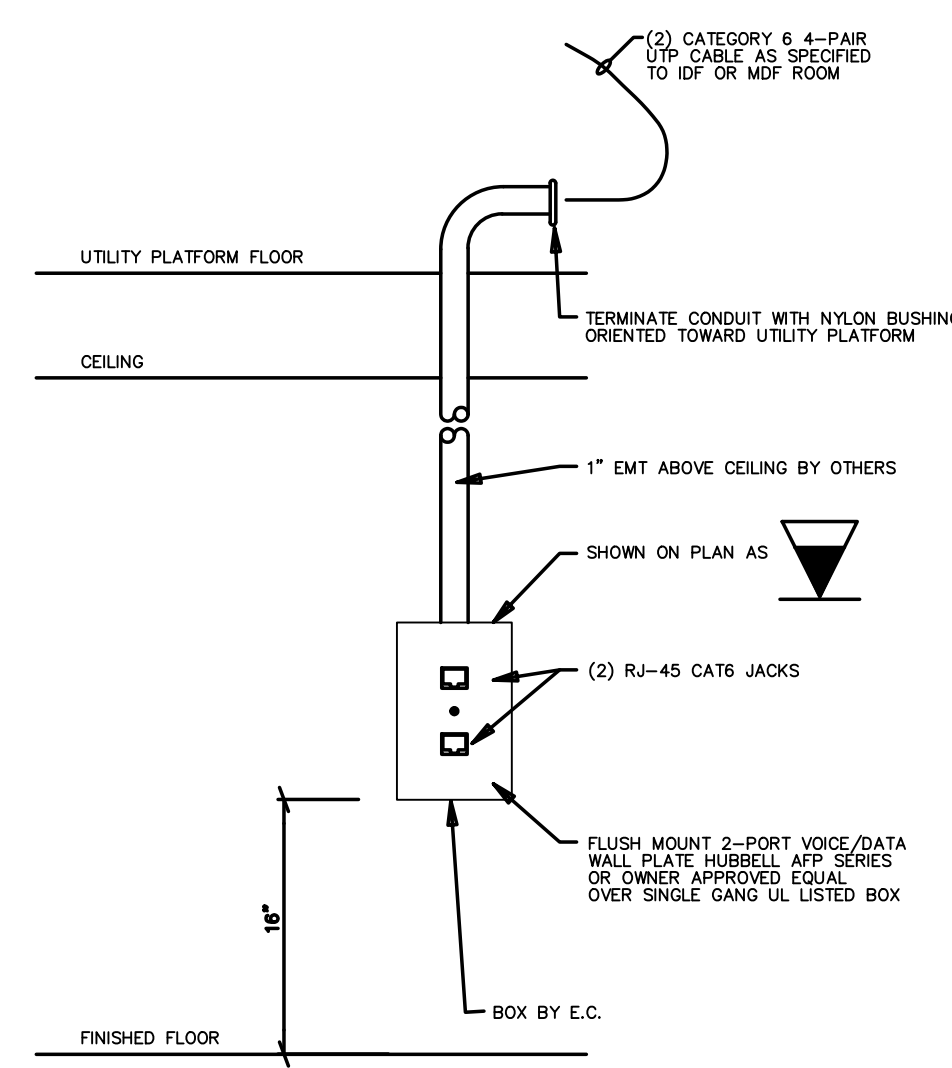
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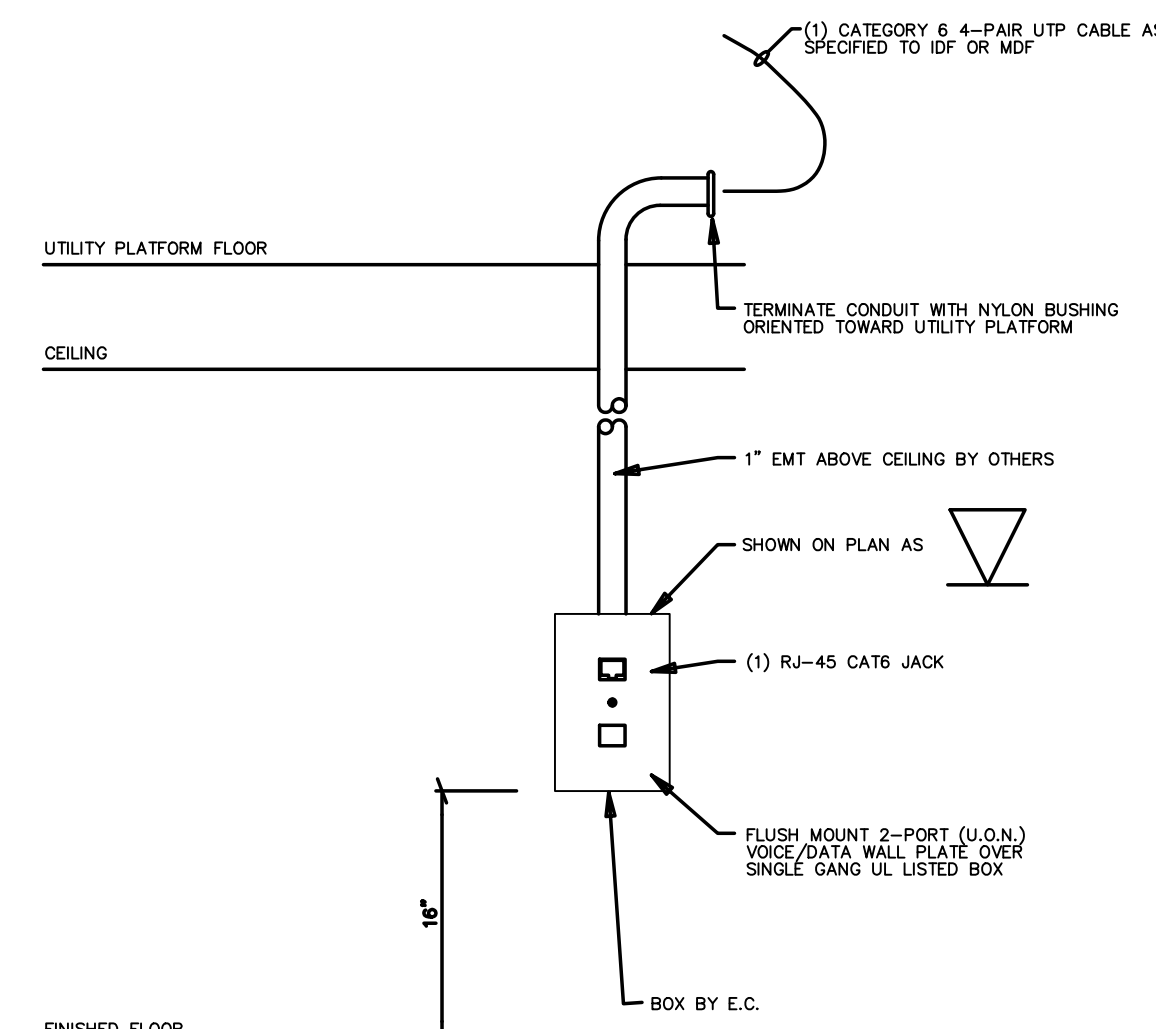
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Carteret County Schools / North Carolina

Project No. 22112
Date: 03 Oct 2023
Drawing no. **FA 811**

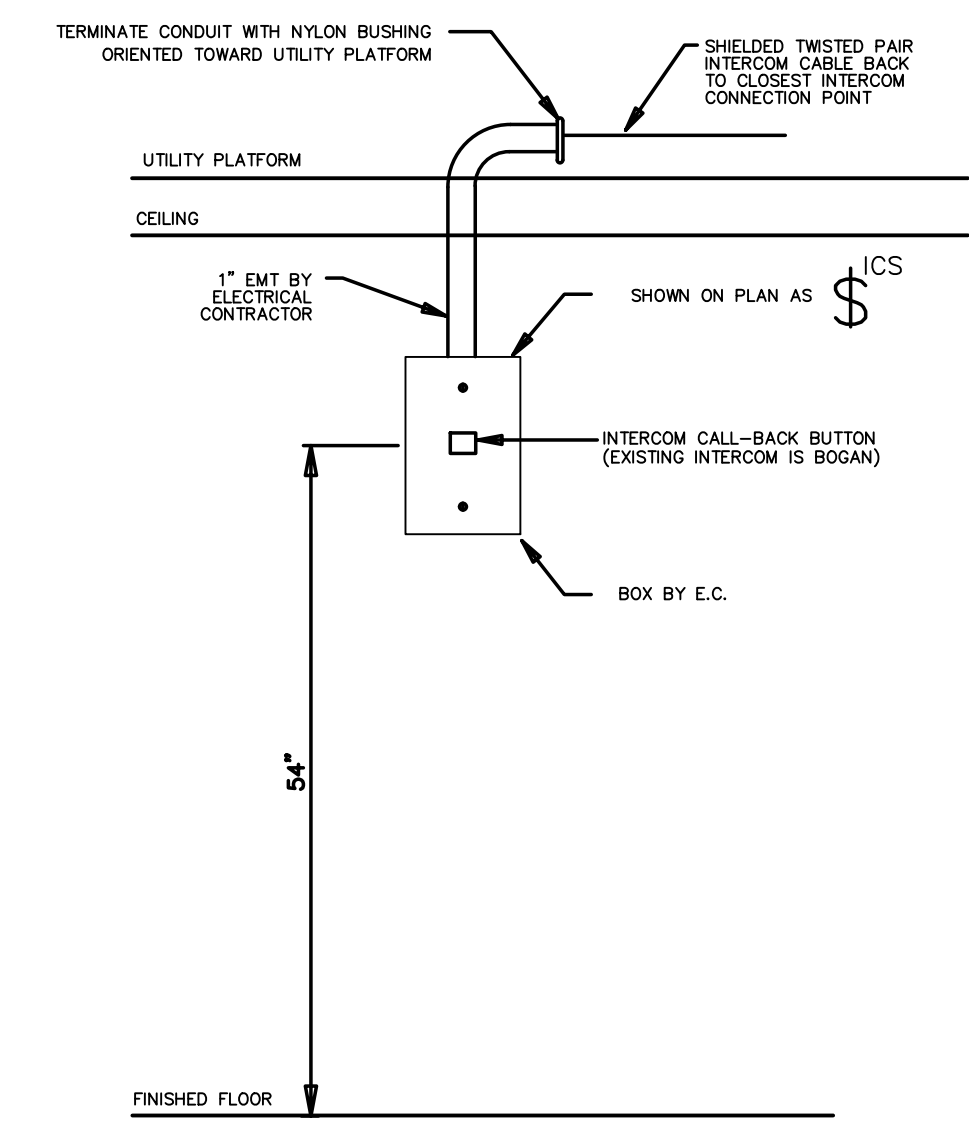
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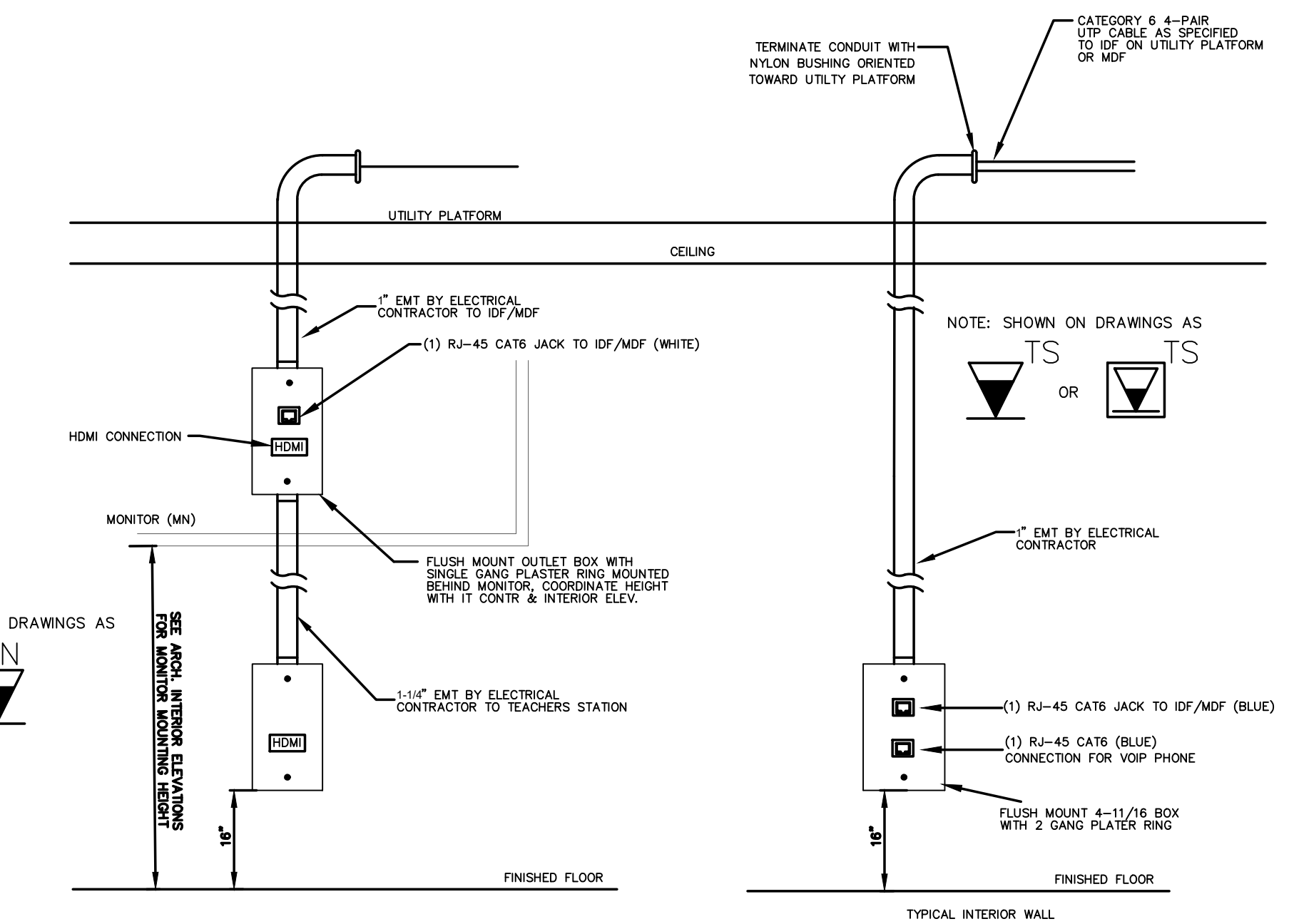
001.6 DUAL DATA OUTLET DETAIL
SCALE: NONE



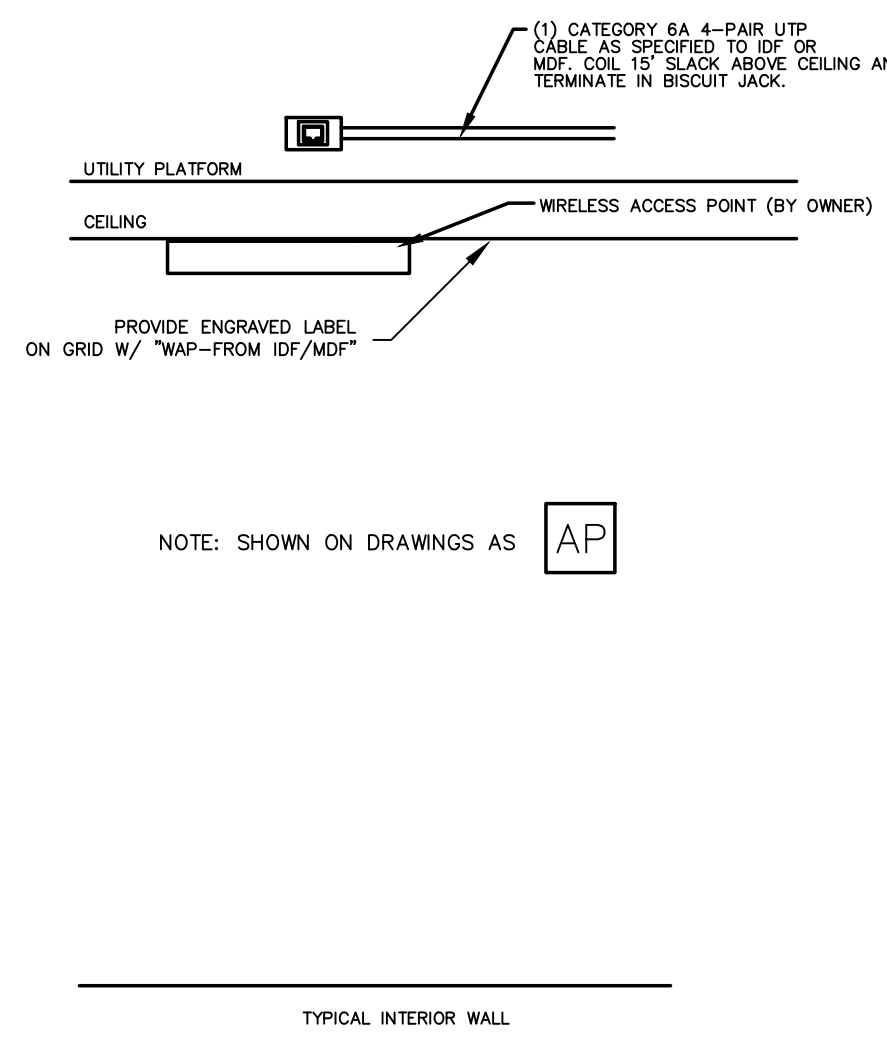
001.7 SINGLE DATA OUTLET DETAIL
SCALE: NONE



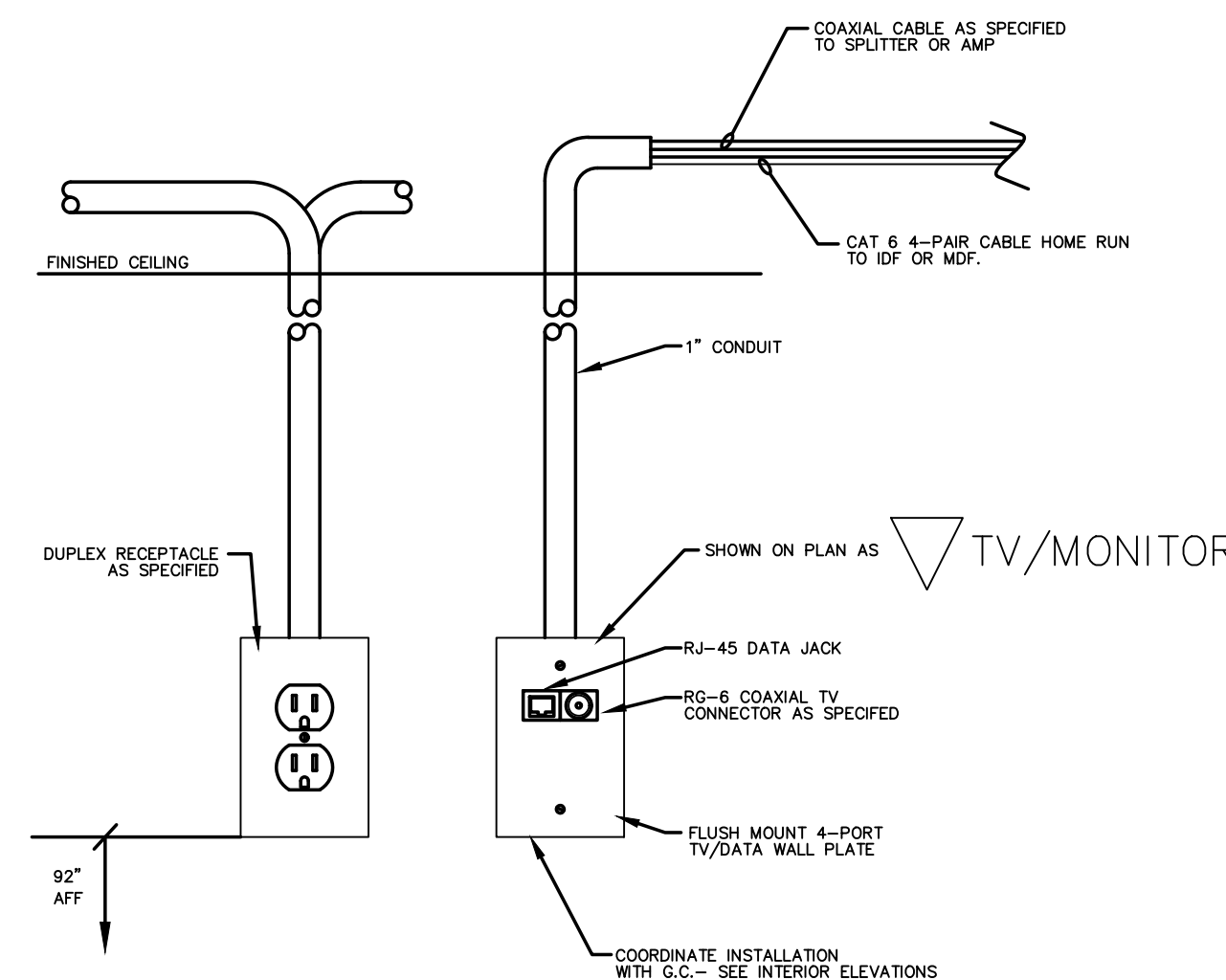
001.8 INTERCOM PHONE DETAIL
SCALE: NONE



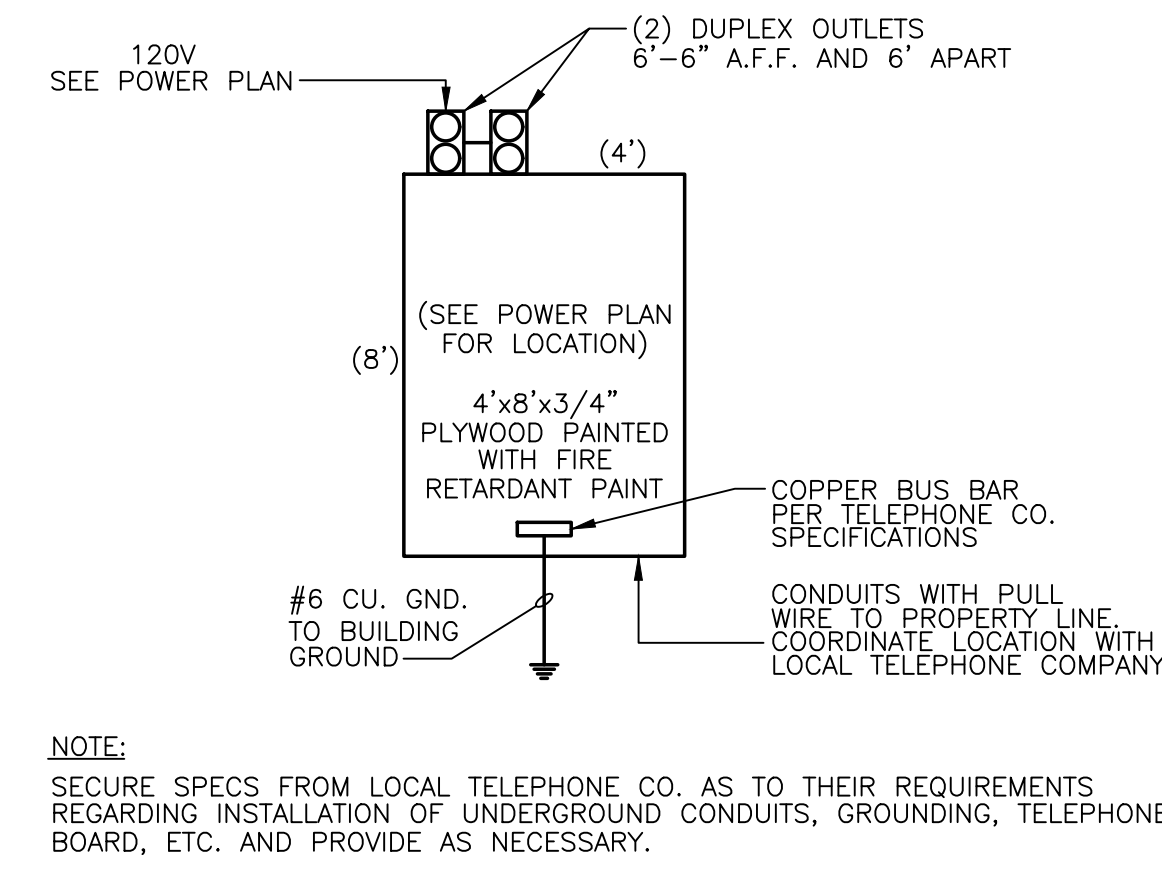
001.9 TEACHERS STATION/WB OUTLET DETAILS
SCALE: NONE



001.3 WAP OUTLET DETAIL
SCALE: NONE



001.4 POWER/TV/DATA WALL OUTLET DETAIL
SCALE: NONE



001.5 IDF ROOM EQUIPMENT BOARD
SCALE: NONE

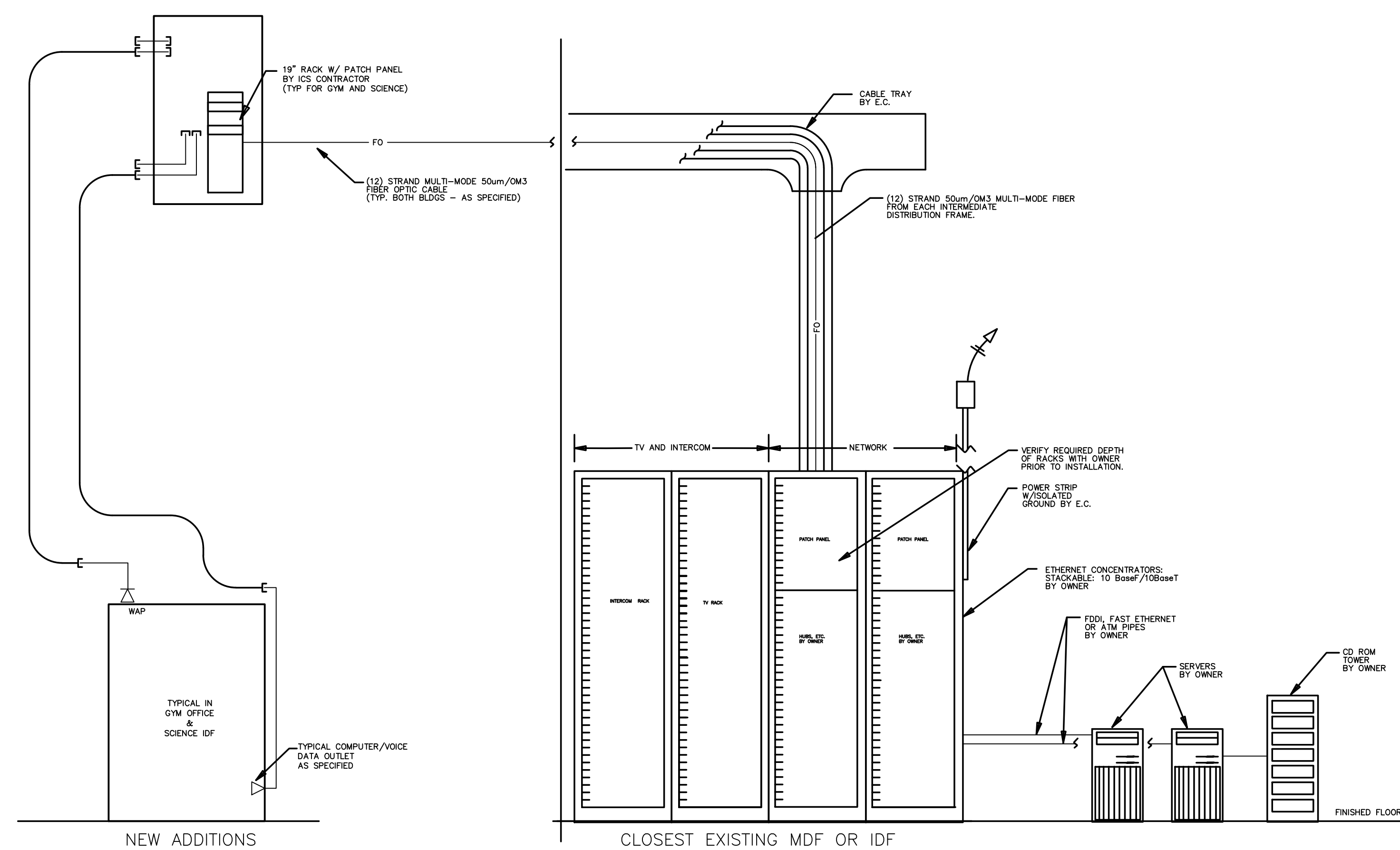
IT SYMBOL LEGEND

- CEILING MOUNTED WIRELESS ACCESS POINT-SEE DETAIL
- CIRCUIT CAMERA SG BOX BY E.C. (SINGLE DIRECTION)
- CIRCUIT CAMERA SG BOX BY E.C. (DOUBLE DIRECTION)
- 360 CIRCUIT CAMERA SG BOX BY E.C. (360 DIRECTION)
- CEILING MOUNTED INTERCOM SPEAKER
- CEILING MOUNTED SPEAKER - W/INTEGRAL AMPLIFIER
- RECESSED SPEAKER - WEATHERPROOF/VANDAL-RESISTANT
- SINGLE GANG MICROPHONE JACK
- DOOR CONTACT
- ELECTRIC DOOR STRIKE
- CEILING MOUNTED MOTION DETECTOR
- INTERCOM VOLUME SWITCH
- CIRCUIT CAMERA SG BOX BY E.C.
- SECURITY KEYPAD, SG BOX 54" A.F.F.
- WIDE ANGLE MOTION DETECTOR FOR SECURITY SYSTEM
- LONG RANGE MOTION DETECTOR FOR SECURITY SYSTEM
- 1 DATA DROP
- 2 DATA DROP
- 4 DATA DROP
- INTERCOM CALL SWITCH
- REQUEST TO EXIT
- DOOR POSITION SWITCH
- F08 READER

ABBREVIATIONS:

A.C.	ABOVE CEILING	T.C.	TECHNOLOGY SYSTEM CONTRACTOR
A.F.F.	ABOVE FINISH FLOOR	B-2	TRUCK ORBIT EXHAUST FAN, V, BREAKER #
EF	EXHAUST FAN	C	CONDUIT AS SPECIFIED
EMW	ELECTRIC WATER HEATER	NL	24 HOUR NIGHT LIGHT
G.C.	GENERAL CONTRACTOR	U.O.N.	UNLESS OTHERWISE NOTED
P.C.	PLUMBING CONTRACTOR	U.G.	UNDERGROUND
M.C.	MECHANICAL CONTRACTOR	E.C.	ELECTRICAL CONTRACTOR OR EMPTY CONDUIT

NOTE: LEGEND IS FOR REFERENCE ONLY - SYMBOLS/ABBREVIATIONS SHOWN DO NOT NECESSARILY APPLY TO THIS PROJECT.



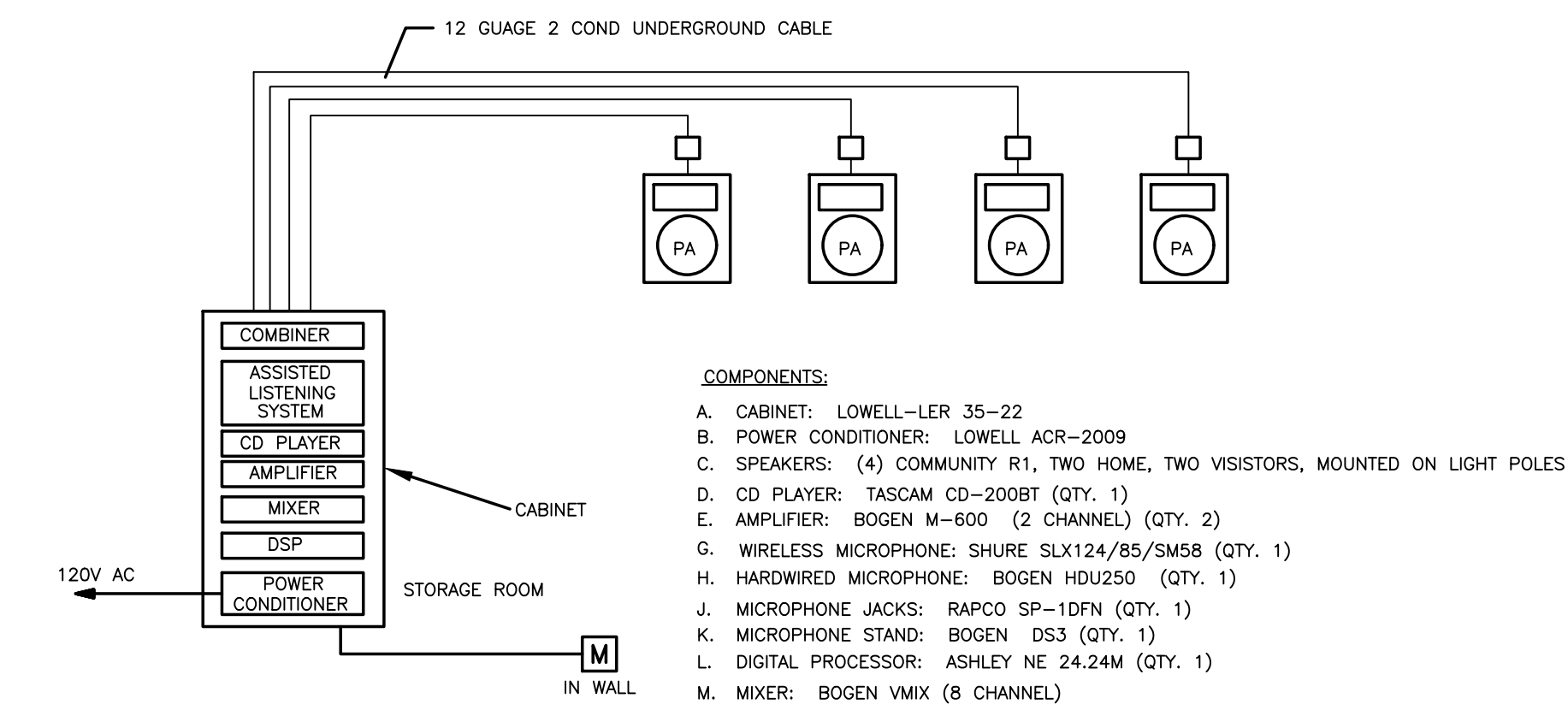
001.2 ICS CONNECTION DIAGRAM
SCALE: NONE

CABLE SEPARATION DISTANCE TABLE

	< 5kVA	2 TO 5kVA	> 5kVA
PANELS, MOTORS, XENONS, SIMILAR	18"	24"	36"
FLUORESCENT FIXT., HD BALLASTS, SM.	12"	18"	24"
UNSHIELDED CONDUCTORS & POWER CONDUCTORS IN GROUNDED METALLIC CONDUIT	6"	12"	18"
SHIELDED LOW TENSION CONDUCTORS	6"	8"	12"

NOTE:

- 1) ALL FIRE ALARM CONDUCTORS SHALL BE RUN IN CONDUIT ON OPPOSITE SIDE OF TELECOM CLOSET ON UTILITY PLATFORM
- 2) VOICE & DATA TELECOMMUNICATIONS CABLE SHALL NOT BE RUN PARALLEL TO POWER CABLE WHEN WITHIN 36", EVEN FOR SHORT DISTANCES
- 3) DUCTWORK & PIPING HAVE RIGHT-OF-WAY OVER CABLING

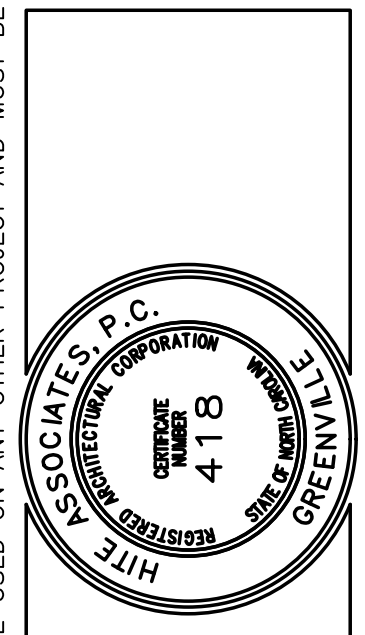


- GENERAL NOTES:**
1. SPEAKERS SHALL BE HUNG AT LOCATION SHOWN ON PLANS, NCS WILL PROVIDE FLYABLE SPEAKERS WITH SAFETY CHAINS, ETC.
 2. CONTRACTOR WILL PROVIDE OWNER PERSONNEL TRAINING & PROVIDE O&M MANUALS AS PART OF TURNOVER DOCUMENTATION.
 3. THE SOUND SYSTEM SHALL BE INTERCONNECTED WITH FIRE ALARM SYSTEM FOR SOUND OVERRIDE, PROVIDE RELAY AS NEEDED, THIS RELAY, CABLING, AND INTERCONNECTIONS SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR.
 4. OHMS SETTING WILL BE USED FOR BOTH CHANNELS ON THE AMPLIFIER.

001.1 SOUND SYSTEM RISER
SCALE: NONE

Project No.	22112
Date	03 Oct 2023
Drawing no.	IT 001

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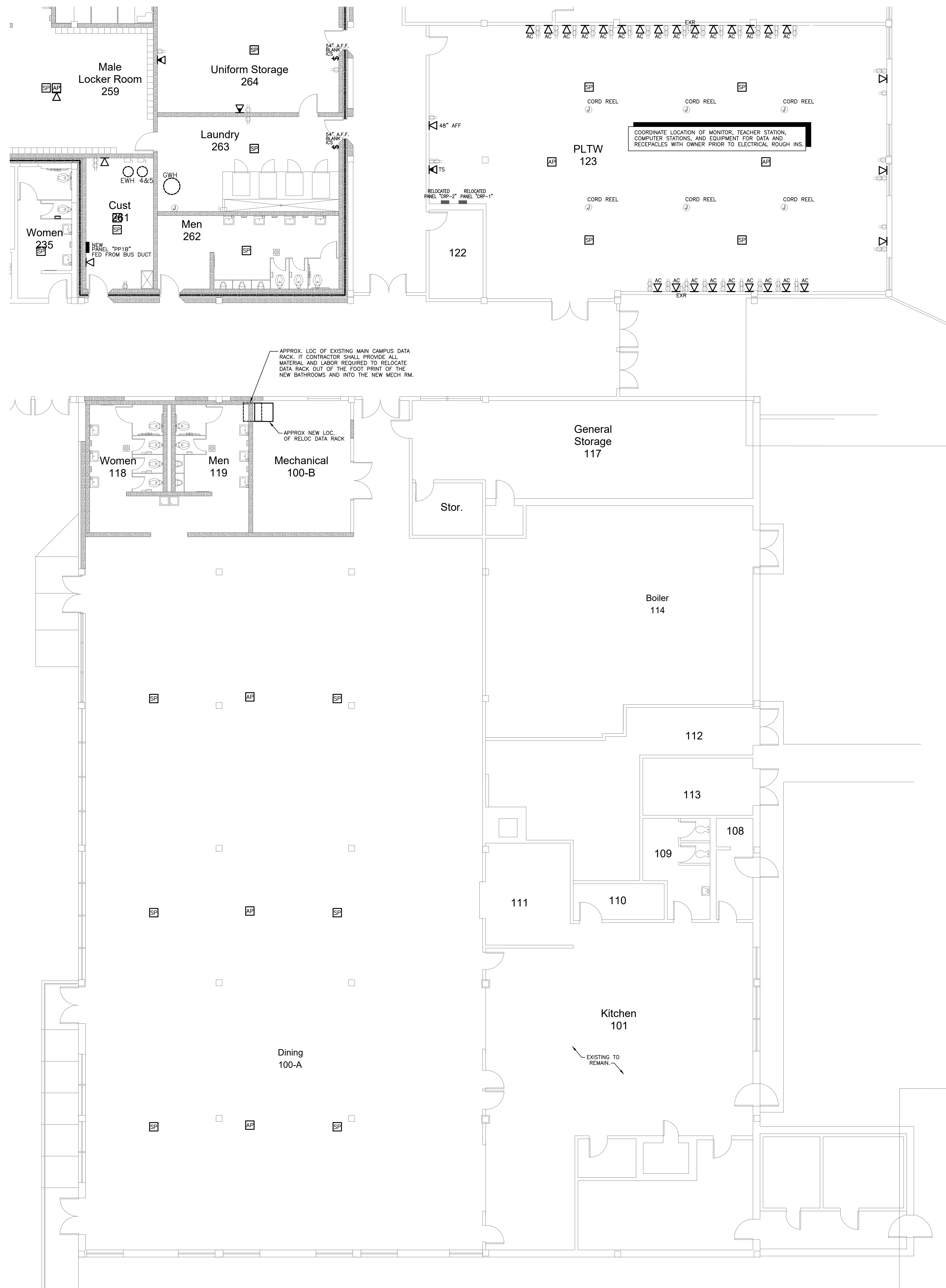


New Additions & Renovations to
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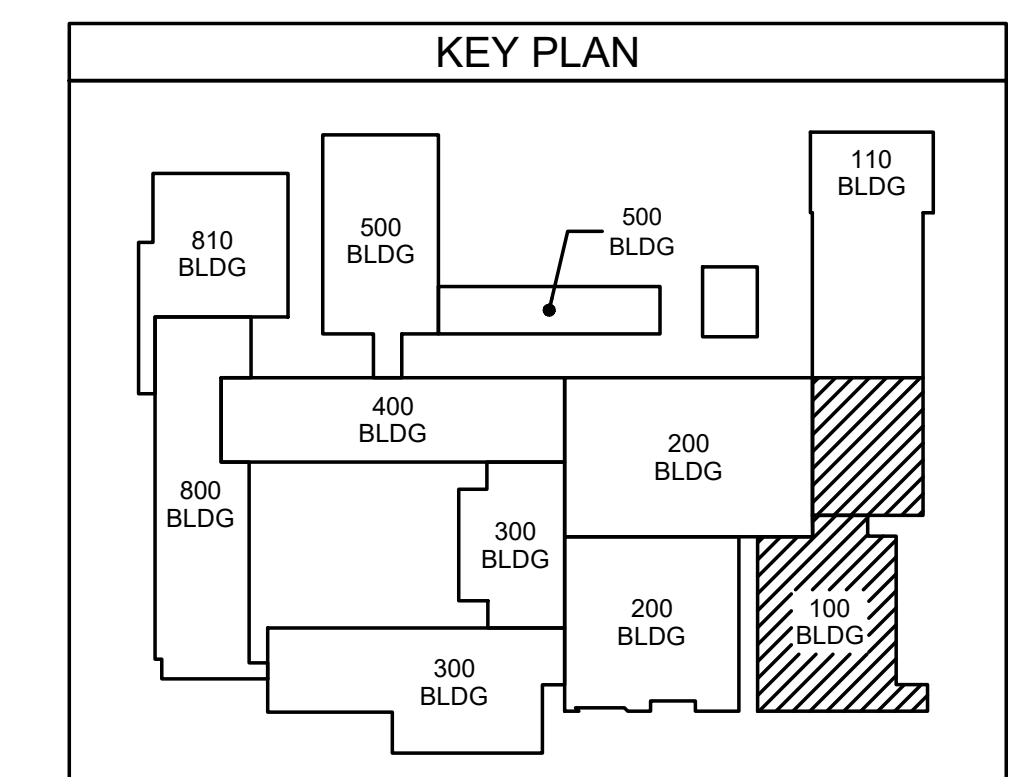
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Date: 03 Oct 2023
Drawing no. IT 001

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101.1 CAFETERIA TECHNOLOGY PLAN
SCALE: 1/8" = 1'-0"



Project No. 22112
Date: 03 Oct 2023
Drawing no. **IT 101**

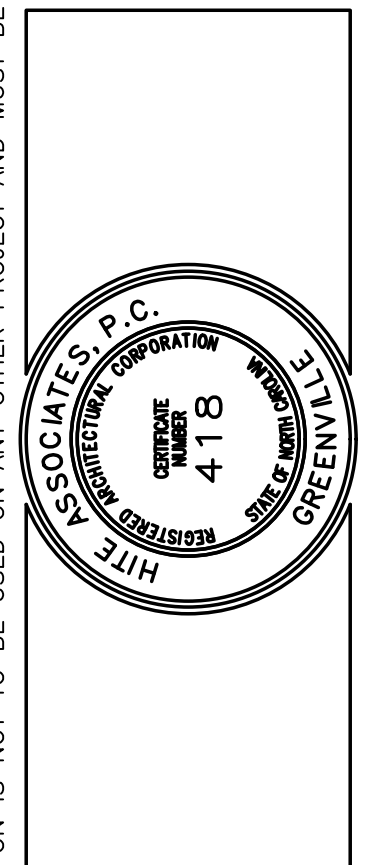
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102-A0 Regency Blvd., Greensboro, NC 27834
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Professional Engineer Seal: **David Wilson**, License No. 4118, State of North Carolina, expires 10/23/23.

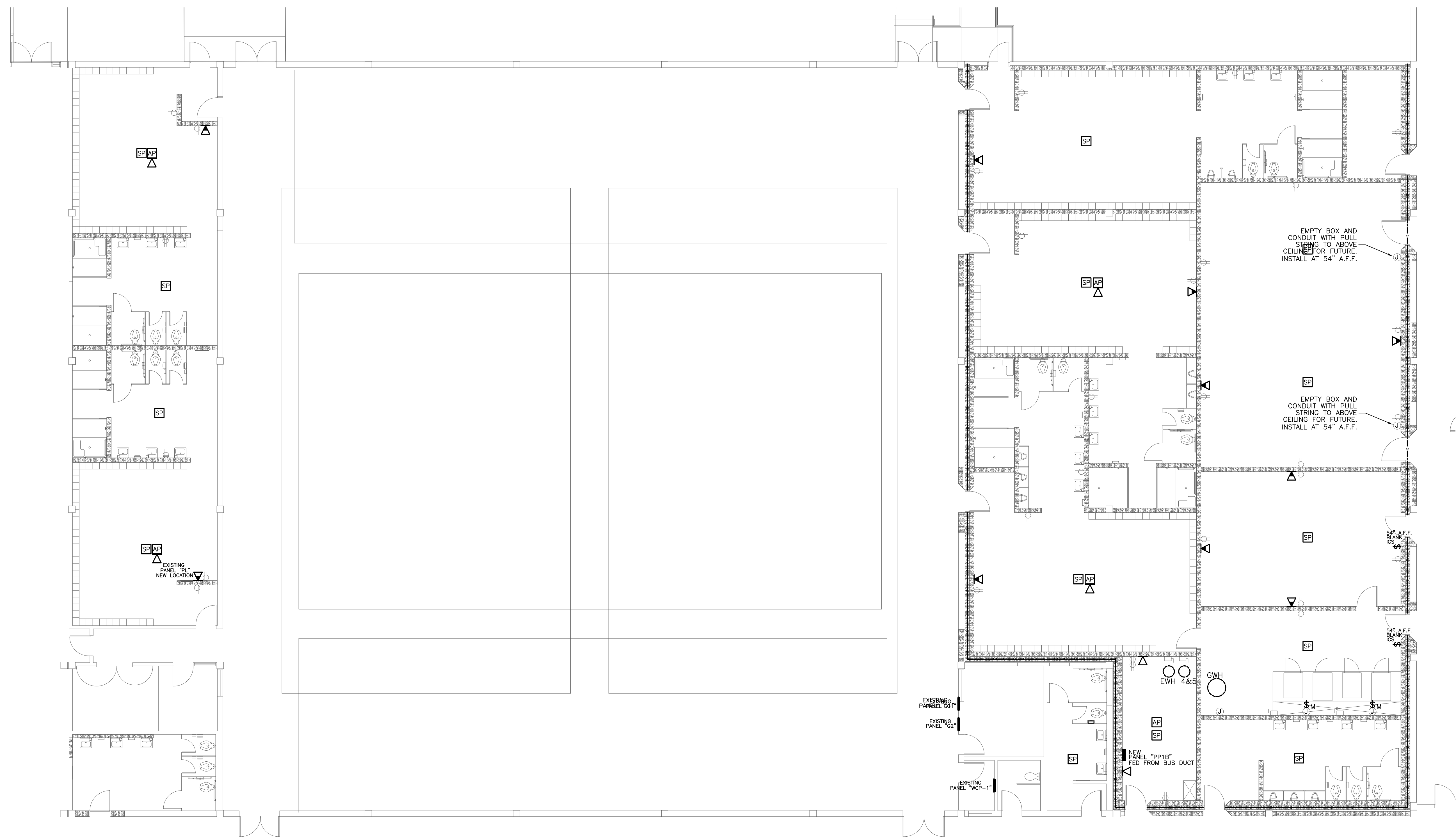
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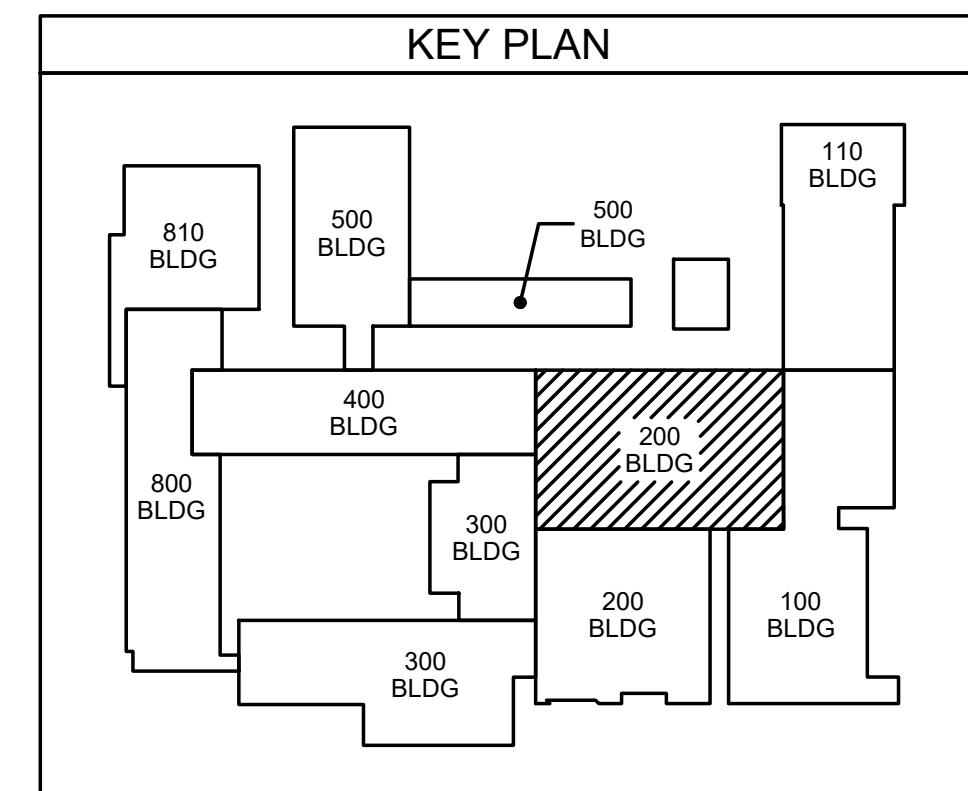
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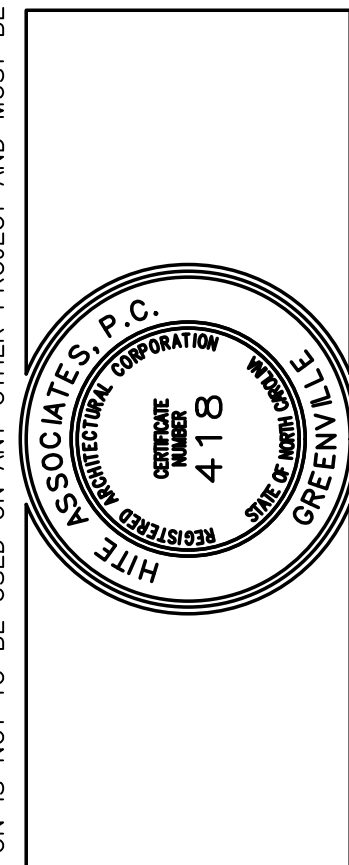
201.1 LOCKER ROOM TECHNOLOGY PLAN
SCALE: 1/8" = 1'-0"



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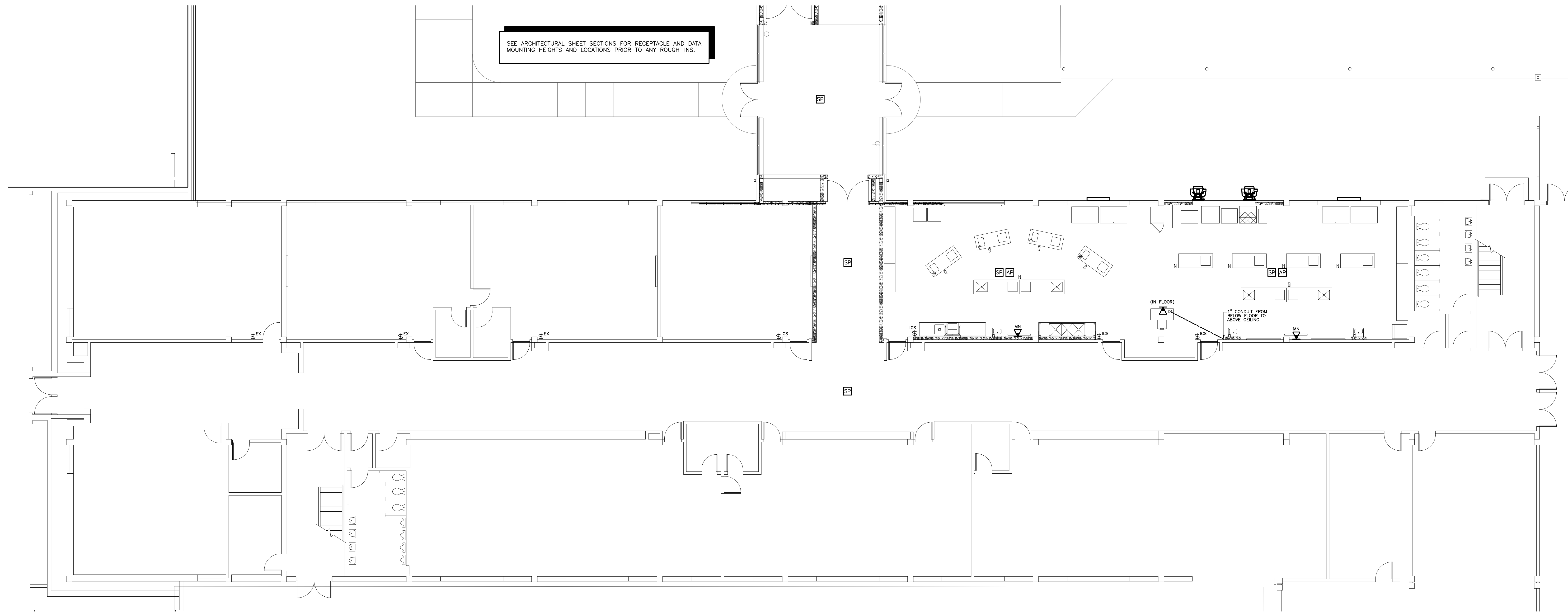
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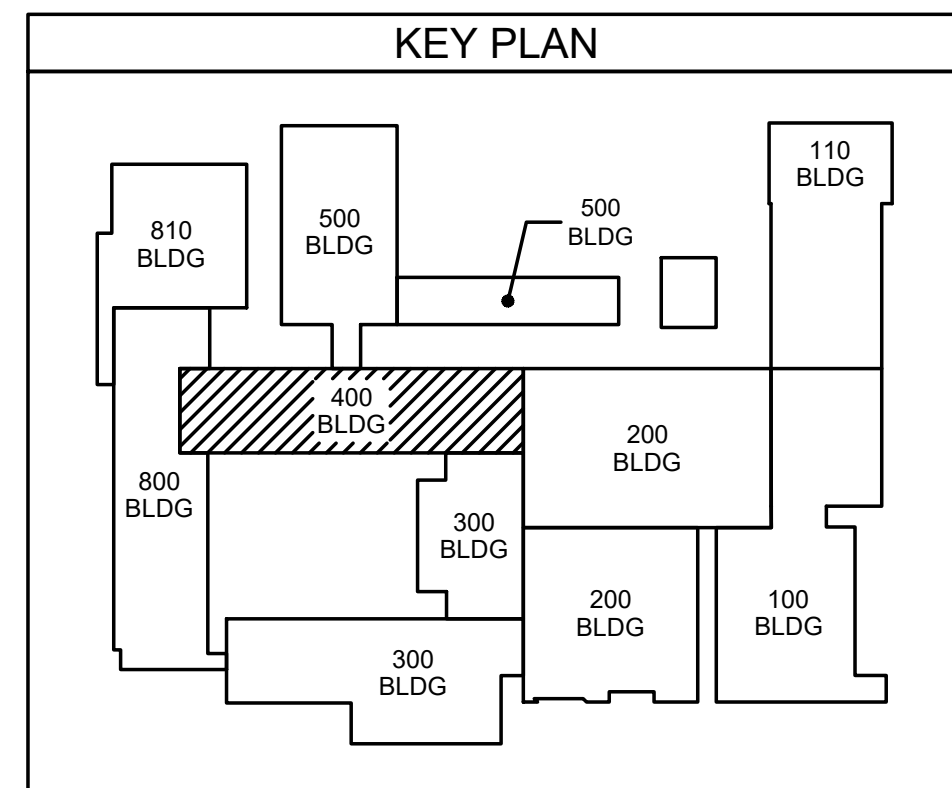
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401.1 400 WING CLASSROOM RENOV PLAN

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



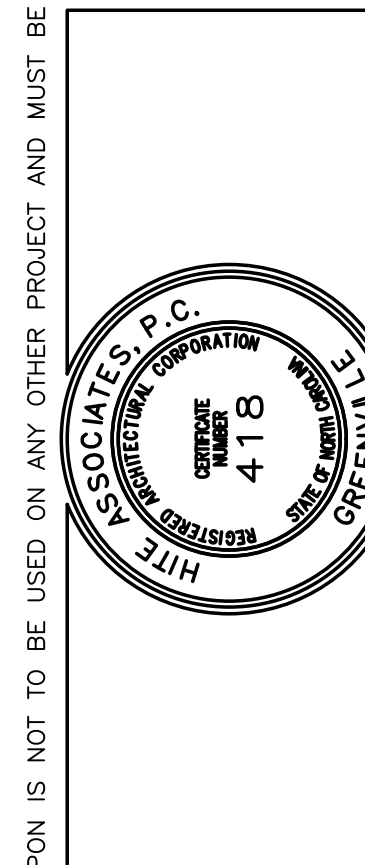
Project No. 22112
Date: 03 Oct 2023
Drawing no. IT 401

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D. Hite
10/23/23
WILSON

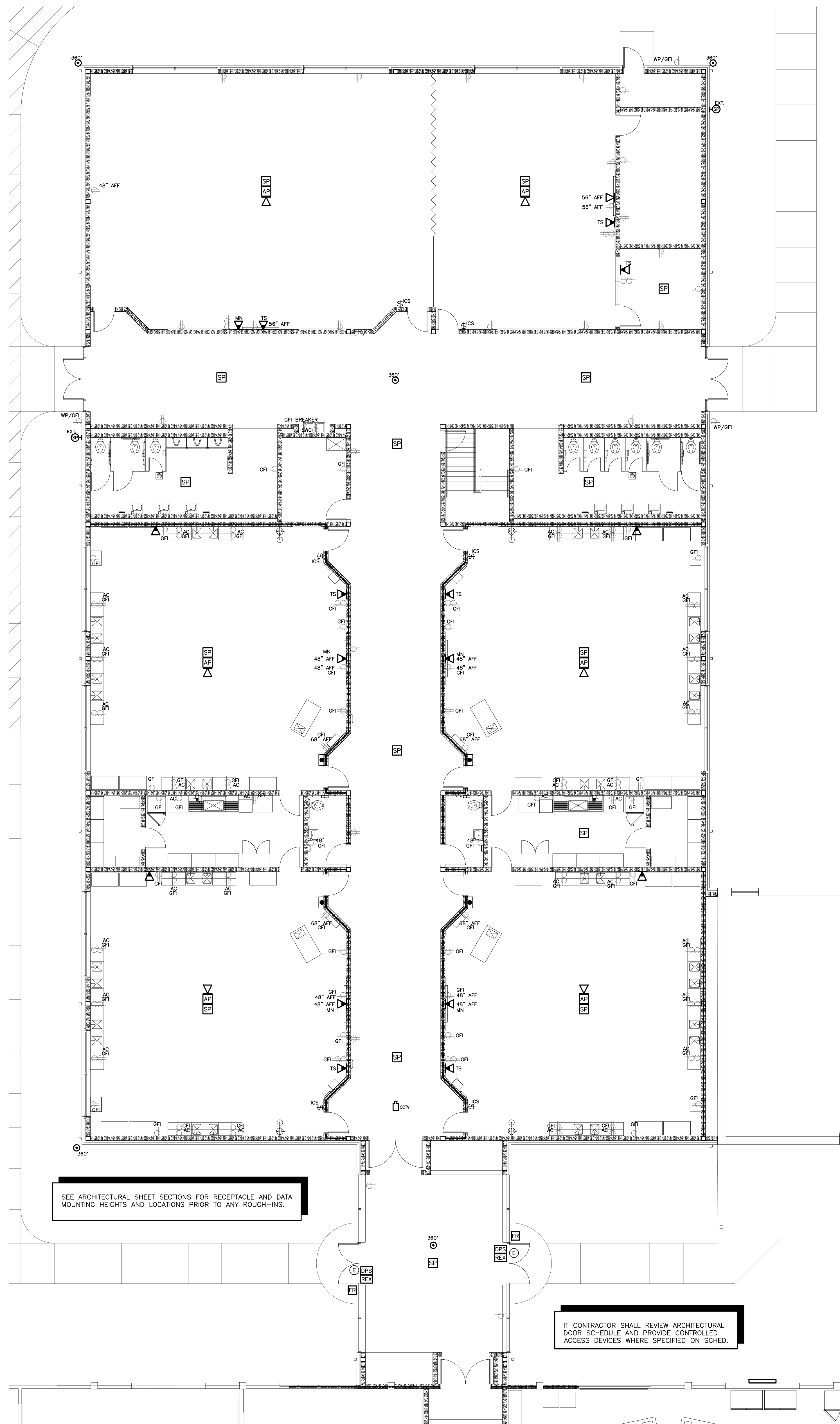
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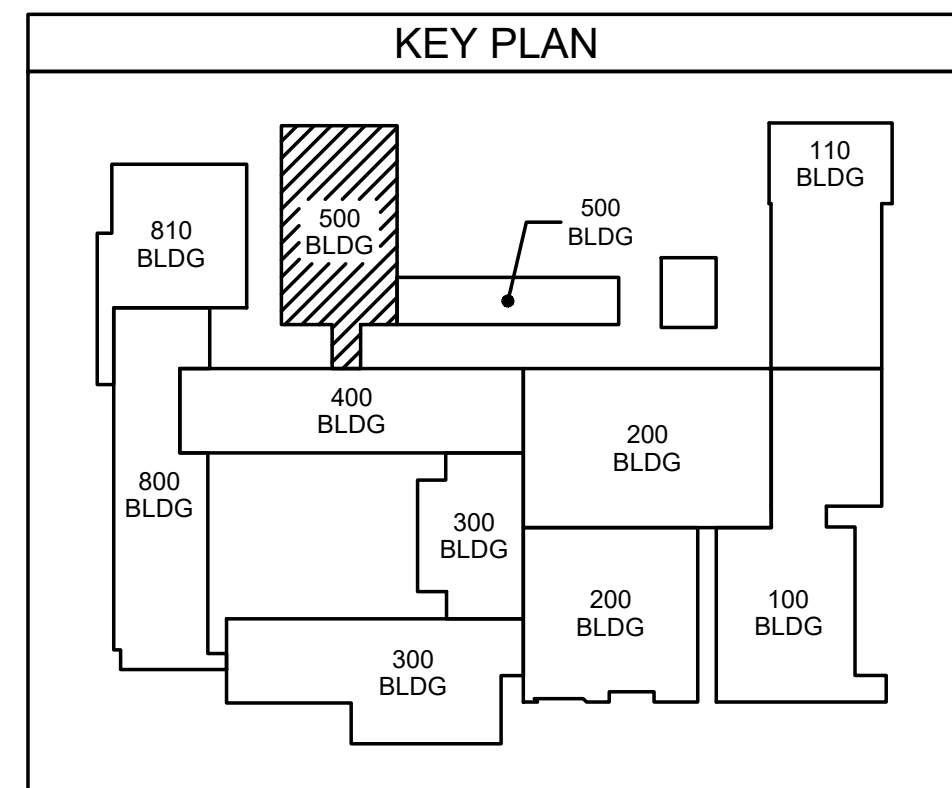


SEE ARCHITECTURAL SHEET SECTIONS FOR RECEPTACLE AND DATA MOUNTING HEIGHTS AND LOCATIONS PRIOR TO ANY ROUGH-INS.

IT CONTRACTOR SHALL REVIEW ARCHITECTURAL DOOR SCHEDULE AND PROVIDE CONTROLLED ACCESS DEVICES WHERE SPECIFIED ON SCHED.

501.1 SCIENCE ROOM TECHNOLOGY PLAN

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



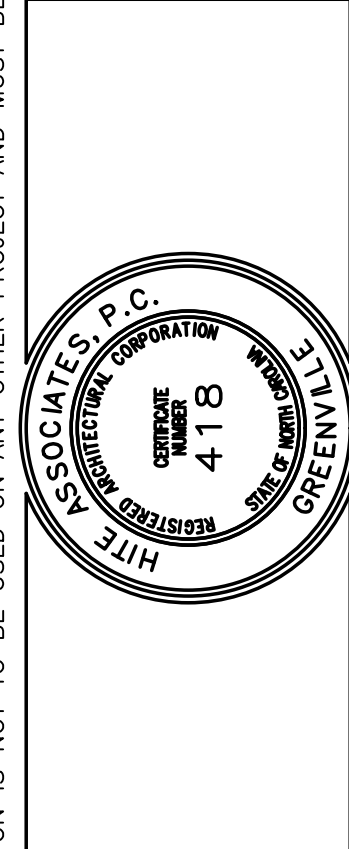
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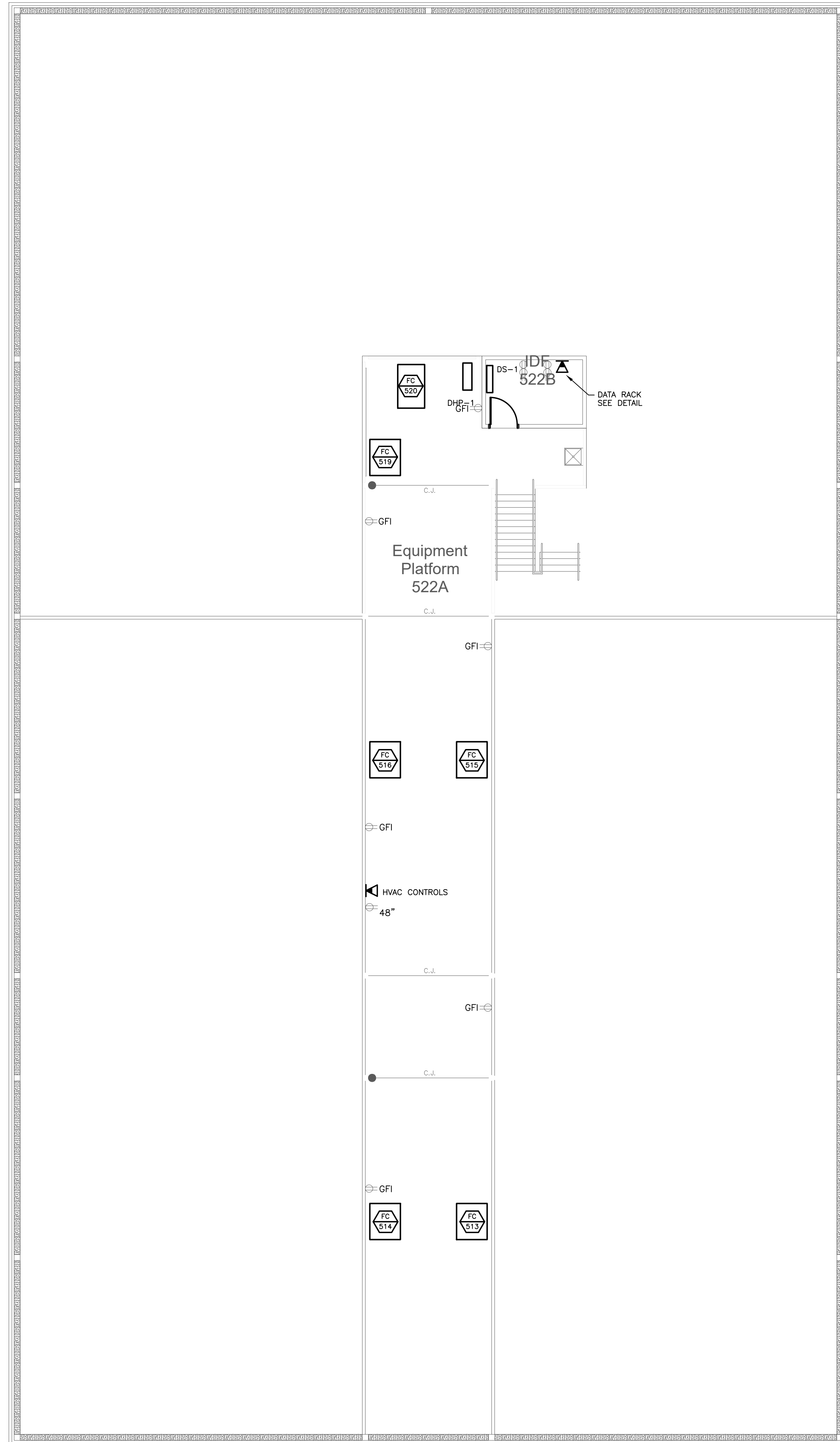
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Project No. 22112

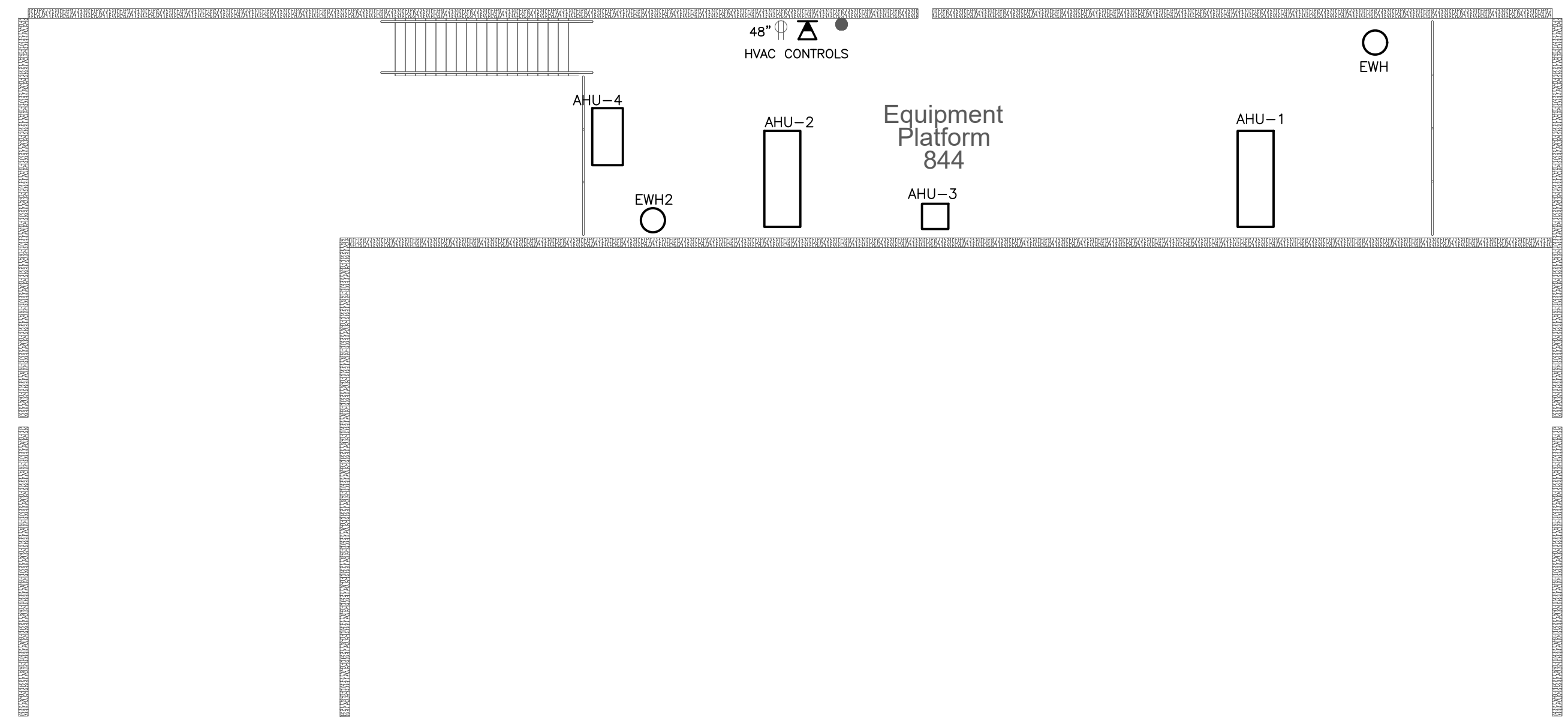
Date: 03 Oct 2023

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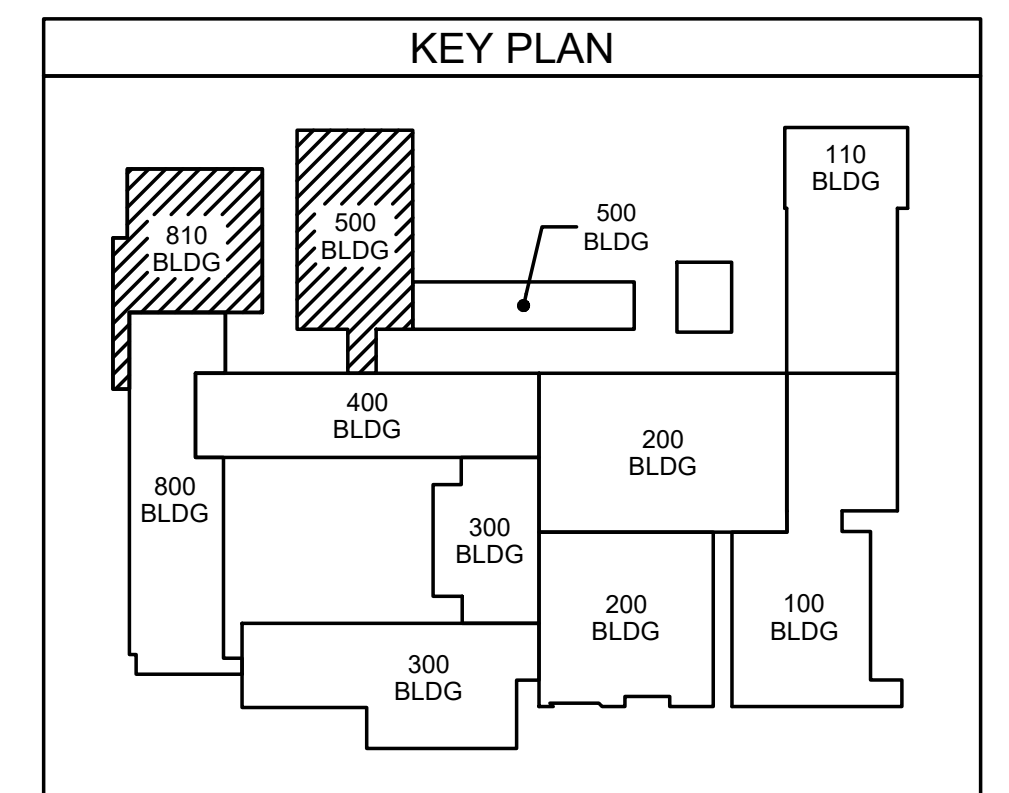
**IT
501**



502.1 SCIENCE CLASSROOM PLATFORM PLAN
SCALE: 1/8" = 1'-0"



502.2 GYM PLATFORM PLAN
SCALE: 1/8" = 1'-0"



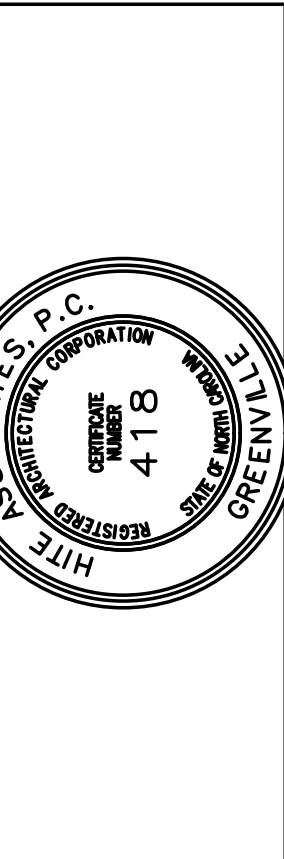
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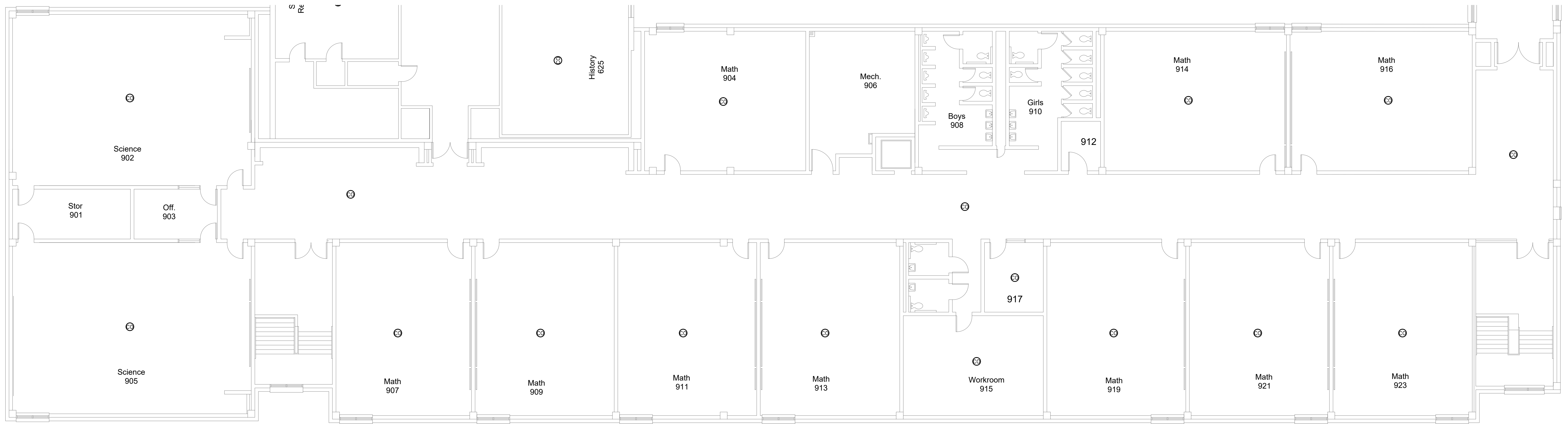
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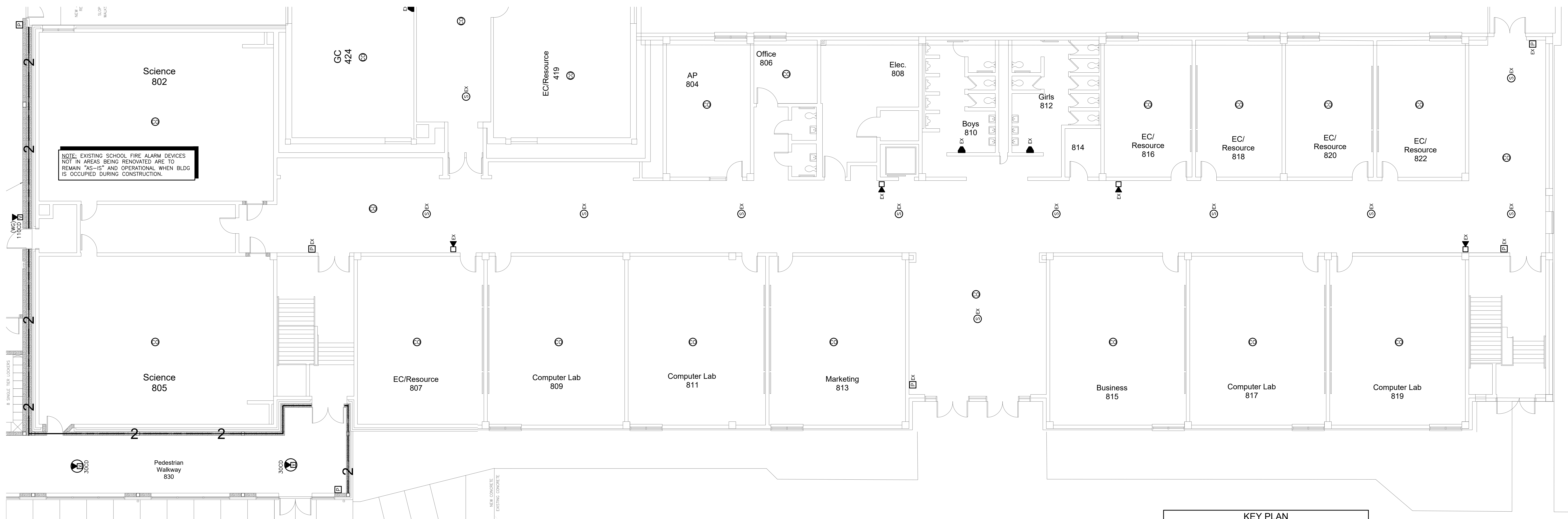
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Project No. 22112
Date: 03 Oct 2023
Drawing no. **IT 502**

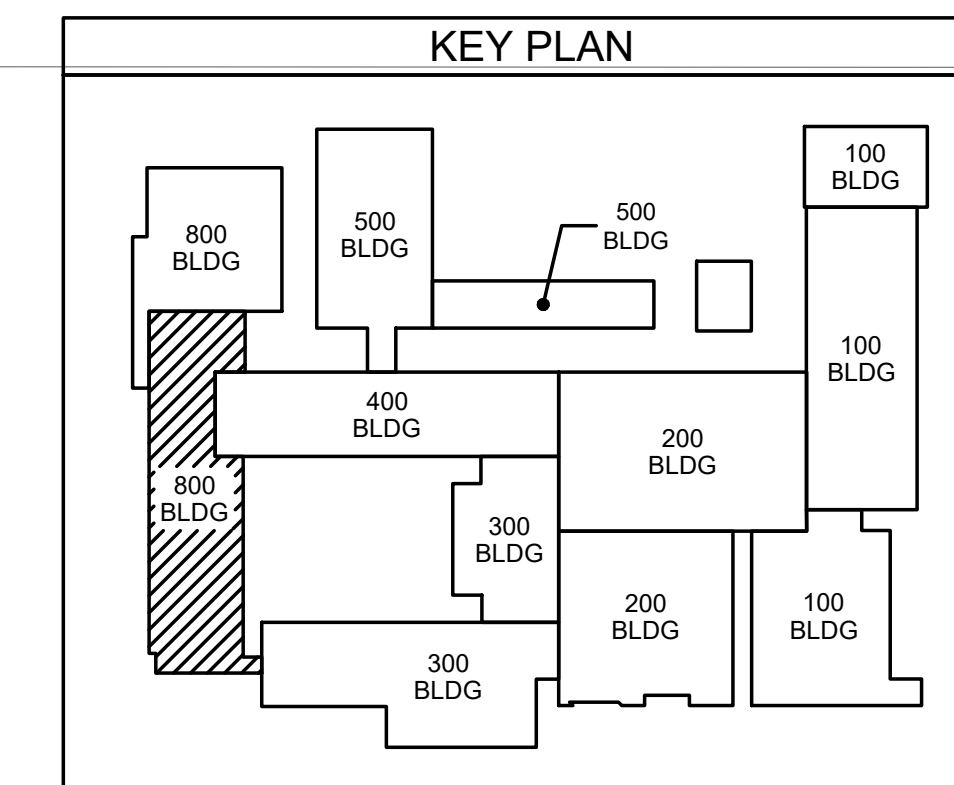
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801.2 900 BUILDING FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



801.1 800 BUILDING FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



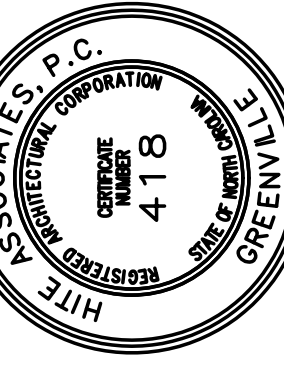
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4178
GREENVILLE, NC

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New Additions & Renovations to
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Project No: 22112
Date: 03 Oct 2023
Drawing No: **FA 801**

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