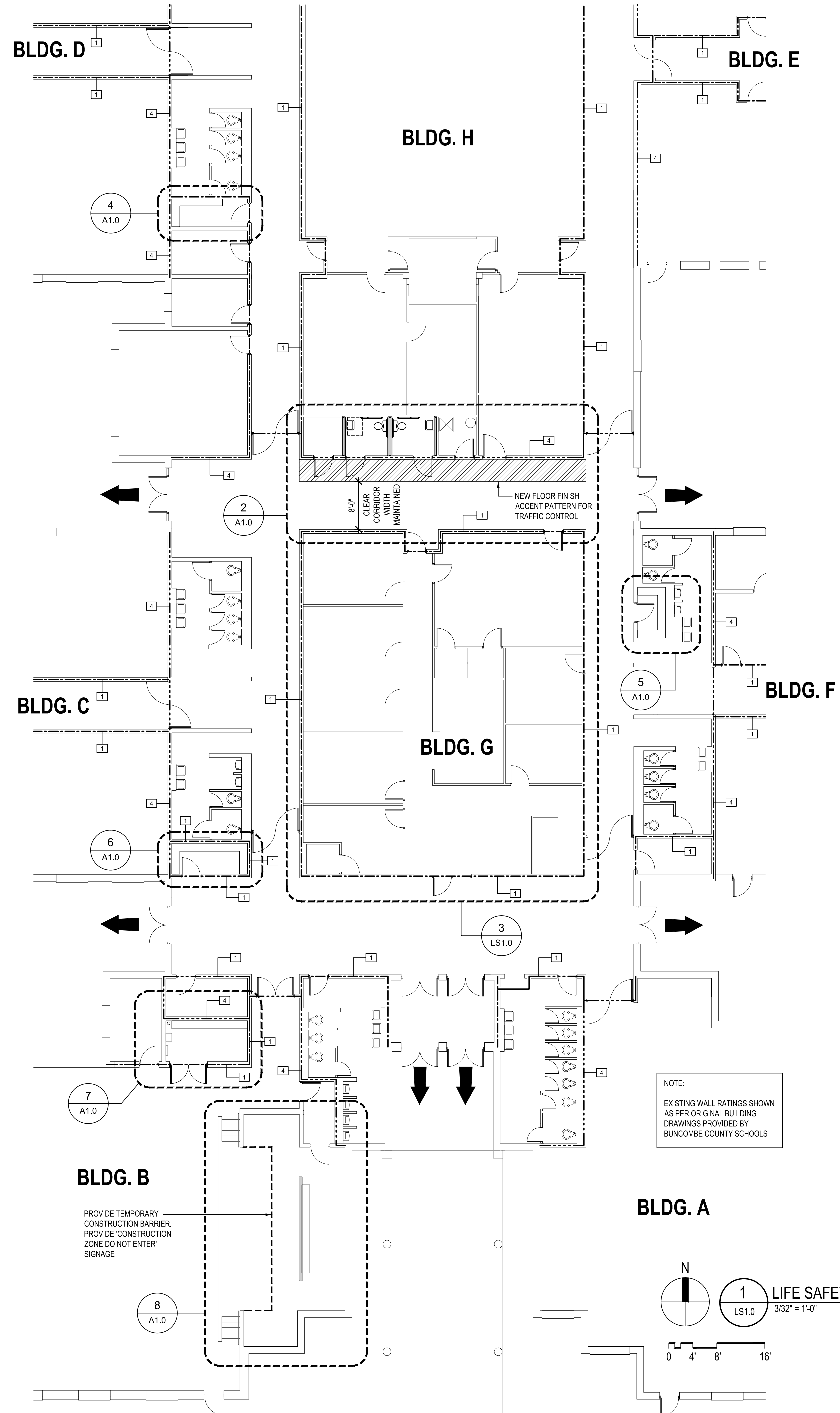


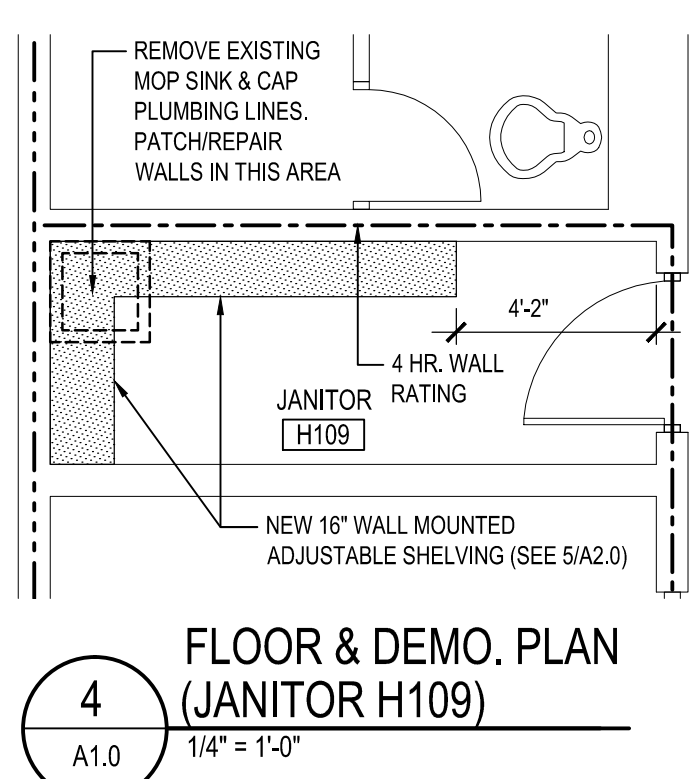
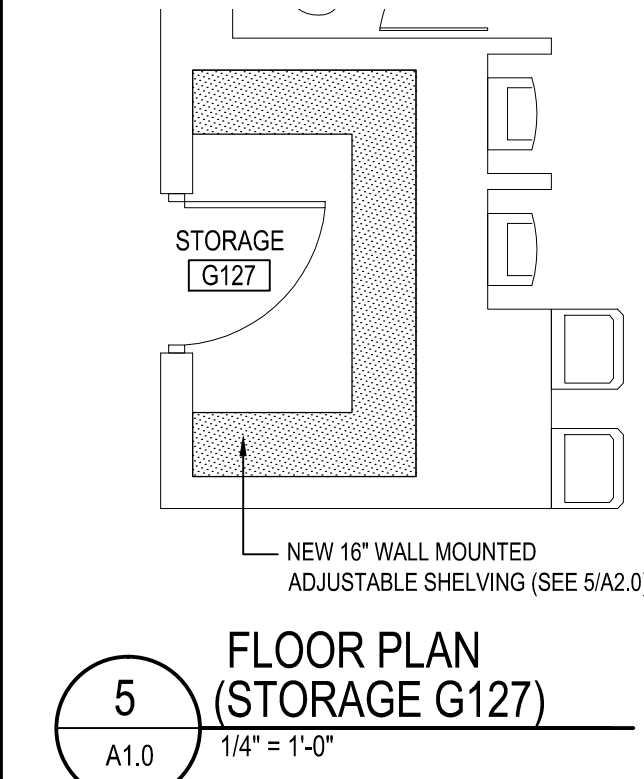
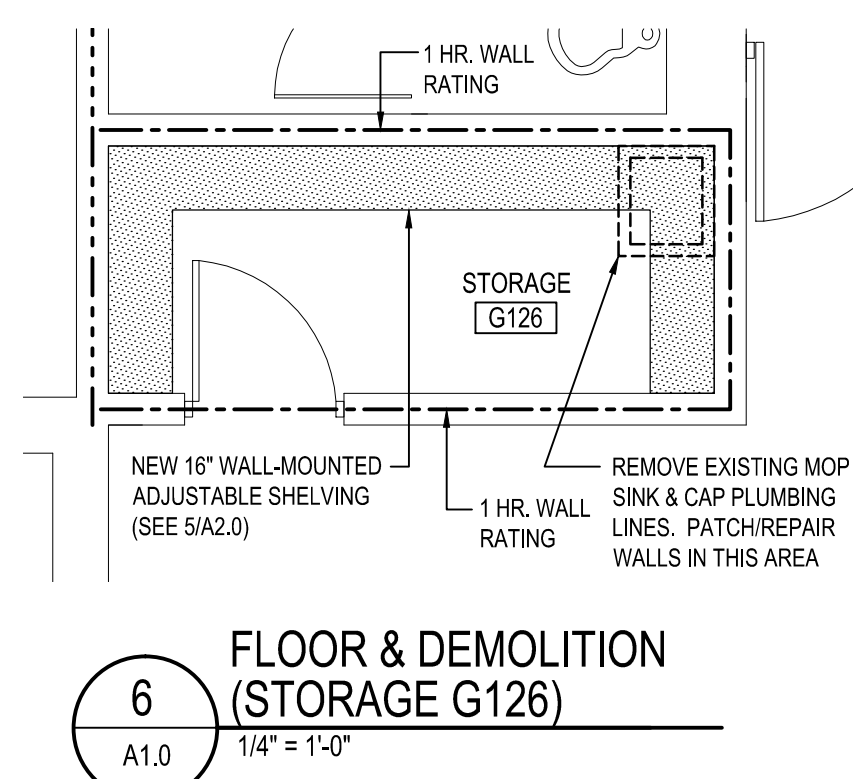
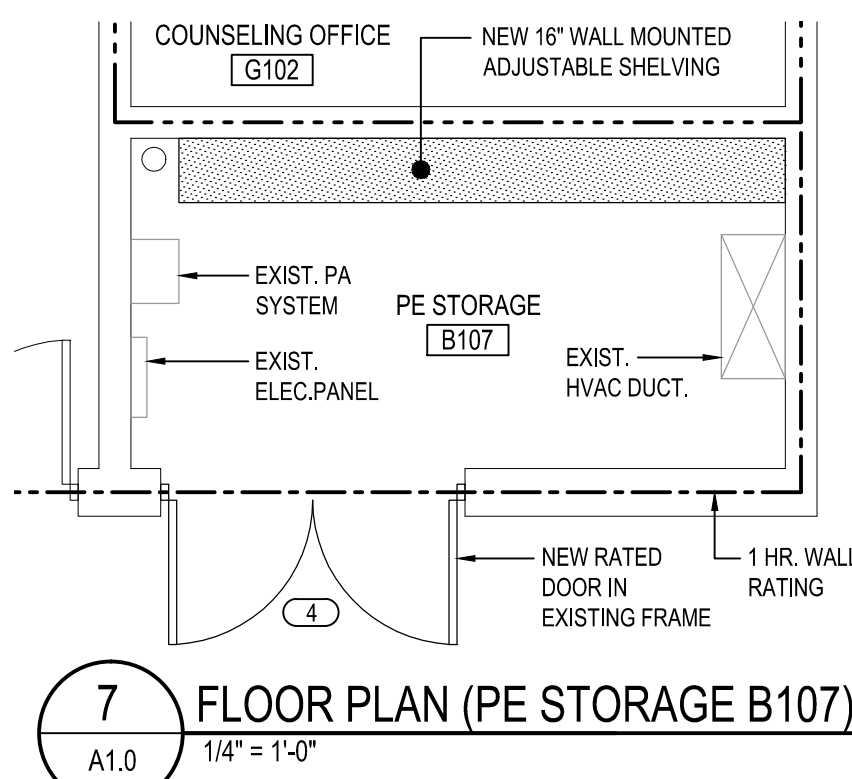
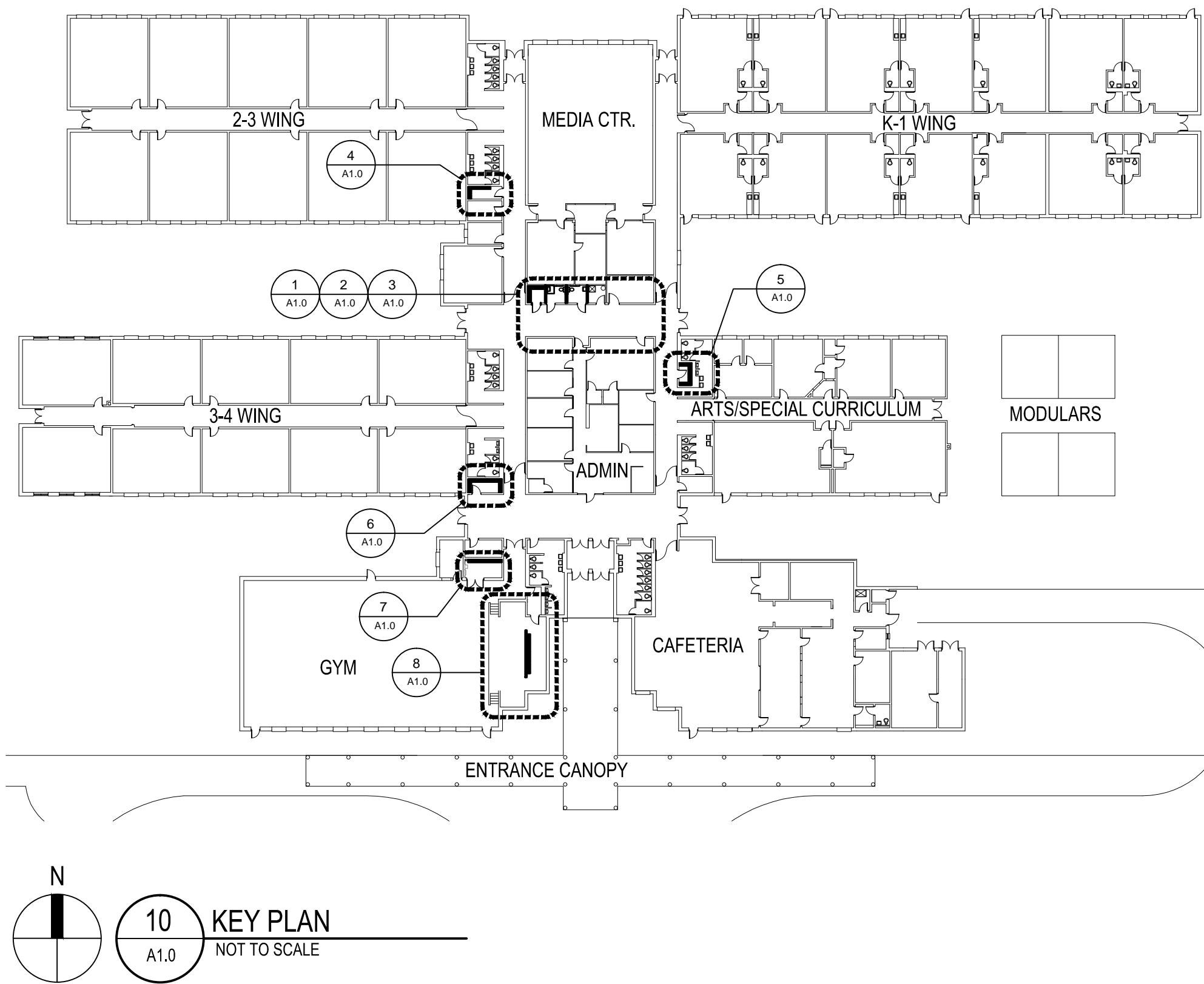
LIFE SAFETY NOTE:

RENOVATIONS TO FACILITY TO DO NOT CHANGE EXISTING CONDITIONS REGARDING FIRE RATINGS, TRAVEL DISTANCE, ALLOWABLE OCCUPANCY, OCCUPANT LOAD, EXIT CAPACITY OR REQUIRED EXITING.

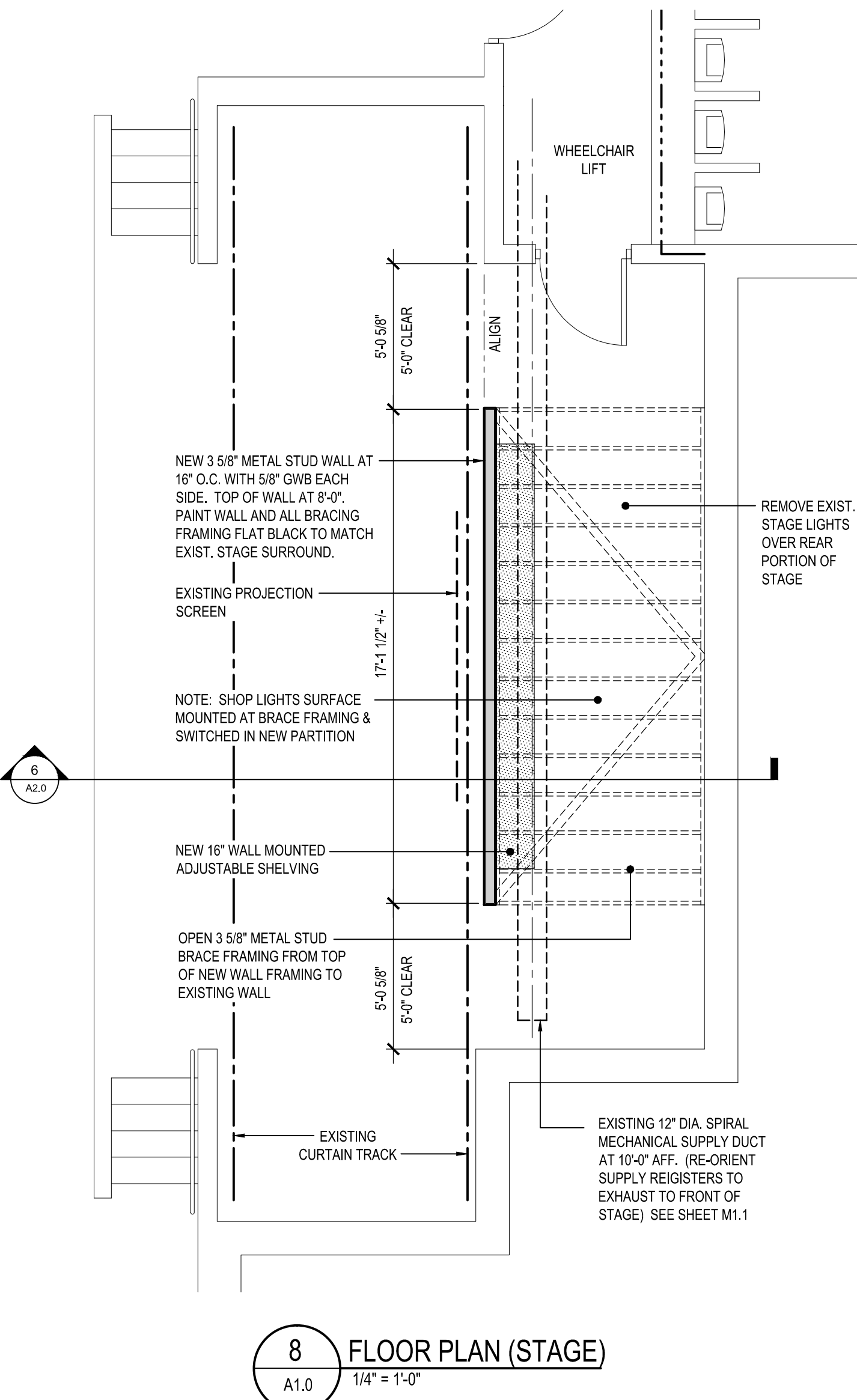
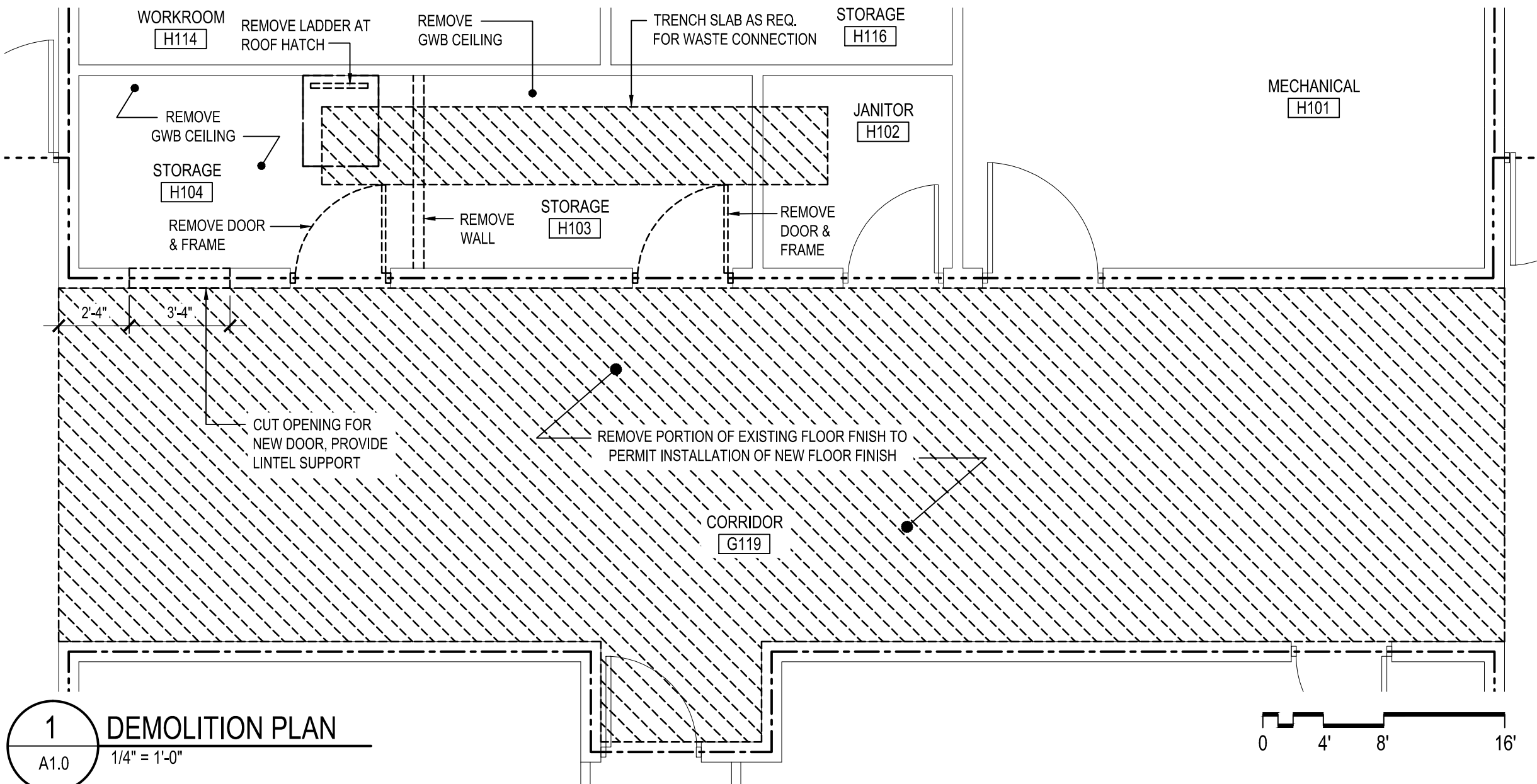
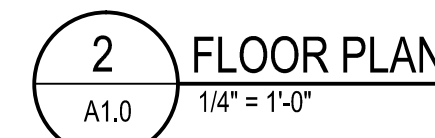
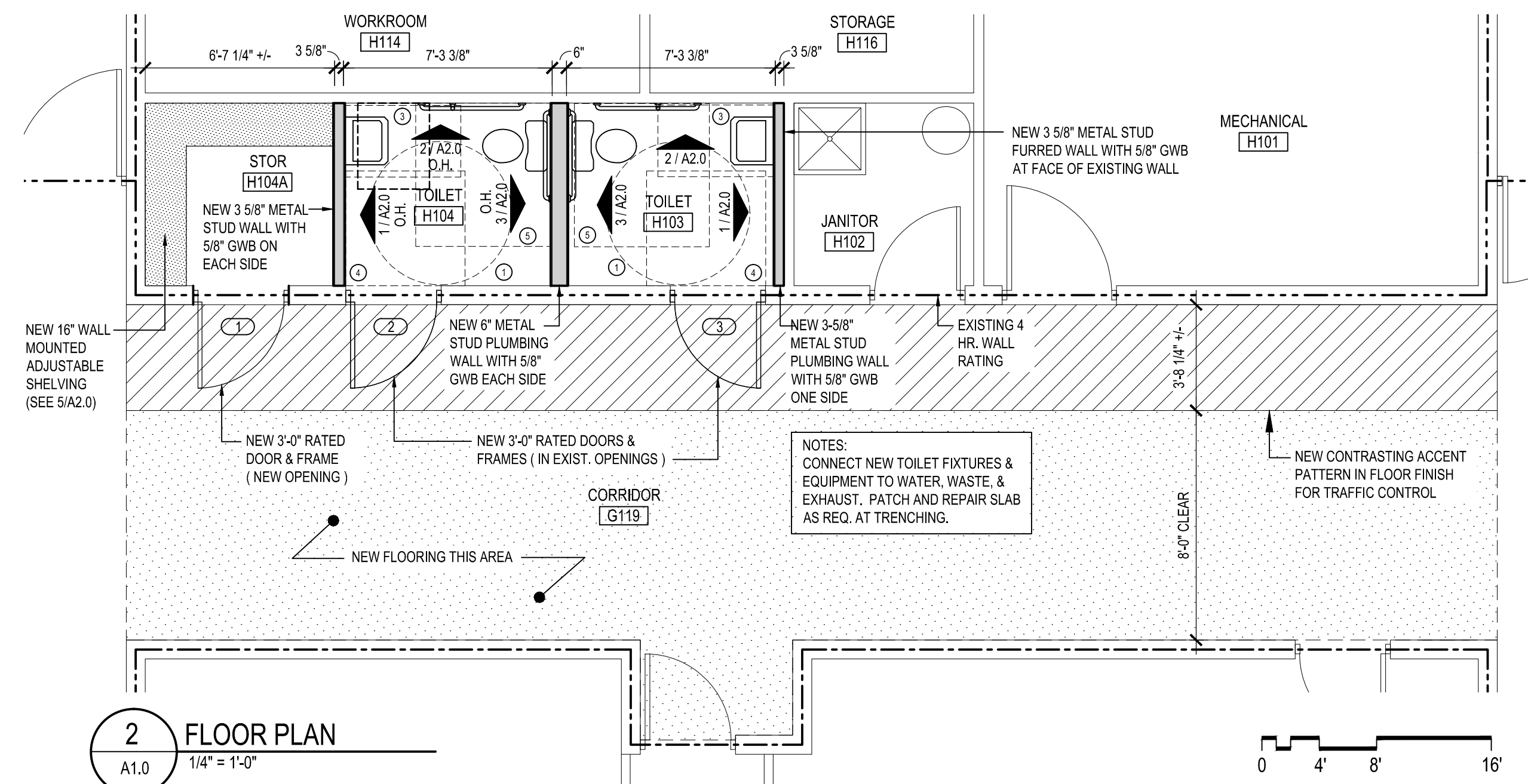
LIFE SAFETY SYMBOL LEGEND		
	F.E.C.	FIRE EXTINGUISHER CABINET
		EXIT LIGHT
		EXIT DISCHARGE TO EXTERIOR
		EGRESS WIDTH
	34 170	EXIT CAPACITY
	156	ANTICIPATED LOAD PER CLEAR OPENING
	OFFICE 103	RM NAME & NO.
	210 S.F. / 100 S.F. PER PERSON = 3 PERSONS	RM S.F., DIV. OCC. CT. FOR SPACE
		TOTAL ROOM OCC. LOAD
	58 SF	ROOM S.F. (MECH. ELEC. DATA, TOILET, OR STORAGE ONLY)
	20	TOTAL NUMBER OF PEOPLE THROUGH OPENING, EXIT, SPACE, OR STAIR
	75	EXIT ACCESS/ MAXIMUM TRAVEL DISTANCE TO AN EXIT

IBC WALL TYPES DESCRIPTION		
HOURLY RATINGS	LINE TYPE	SYMBOL
1 HOUR	---	1
2 HOUR	- - - - -	2
3 HOUR	3
4 HOUR	-----	4





ROOM FINISH SCHEDULE															
RM. NO.	ROOM NAME	FLOOR			BASE		WALLS			CEILING					
		HEAT-VEEDED SHEET VINYL	VINYL COMPOSITION TILE	EXISTING TO REMAIN	HEAT-VEEDED INTEGRAL BASE	EXISTING TO REMAIN	PAINTED GWB	FIBER-REINFORCED PLASTIC	EXISTING TO REMAIN	PAINT EXISTING	OPEN TO STRUCTURE	PAINT EXISTING-HARD CEILING	2 x 2 LAM.	EXISTING TO REMAIN	
		SV	VCT	EX	RB	IB	EX	PT	FRP	EX	PTX	OPEN	PTX	ACT1	EX
B103	STAGE			●	●			●							
B107	PE STORAGE												●	●	
H109	JANITOR												●	●	
G119	CORRIDOR			●	●	●							●	●	
G126	STORAGE			●	●	●							●	●	●
G127	STORAGE			●	●	●							●	●	
H102	JANITOR												●	●	
H103	TOILET														●
H104	TOILET								●	●				●	●
H104A	STORAGE	●			●						●			●	●



- ROOM FINISH NOTES**
- GENERAL FINISH NOTES: COLORS TO BE SELECTED BY ARCHITECT FROM STANDARD RANGE. PROVIDE LOWEST VOC CONTENT PRODUCTS AND ADHESIVES AVAILABLE FROM MANUFACTURERS LISTED. PROVIDE INSTALLATION ACCESSORIES AND ADHESIVES FROM SAME SOURCE AS FINISH PRODUCT OF TYPE RECOMMENDED FOR THE APPLICATION.
 - SV FLOORING: HEAT WELDED SHEET VINYL TO BE HOMOGENEOUS .080" THICK UV-CURED POLYURETHANE FINISH. MINIMIZE SEAMING, PROVIDE MATCHING PATTERNED WELD RODS. ACCEPTABLE PRODUCTS INCLUDE: ARMSTRONG MEDINETECH, GERFLOR MIPOLAM, MANNINGTON BIOSPEC.
 - VCT FLOORING: HOMOGENEOUS THROUGH-BODY COLOR 12X12X10.125" TILE, MARBELIZED PATTERN. MANUFACTURERS: ARMSTRONG, JOHNSONITE, MANNINGTON.
 - RB WALL BASE: TS RUBBER, VULCANIZED THERMOSET. TOP SET STYLE B, COVE. HEIGHT 4". SATIN FINISH. MANUFACTURERS: BURKE, JOHNSONITE, ROPPE.
 - IB WALL BASE: HEAT WELDED INTEGRAL WALL BASE: INTEGRAL HEAT WELDED SHEET VINYL FLASH COVE BASE, 6". PROVIDE TOP EDGE TRIM CAP OF ANODIZED ALUMINUM. PROVIDE A WOOD OR PLASTIC FILLET SUPPORT STRIP AT FLOOR/WALL INTERSECTION WITH A MINIMUM RADIUS OF 1". PROVIDE FLASH COVE ADHESIVE RECOMMENDED BY MANUFACTURER.
 - PT: MANUFACTURERS: BENJAMIN MOORE, GILDEN PROFESSIONAL, PPG, SHERWIN-WILLIAMS, VALSPAR. B.O.D. SHERWIN-WILLIAMS PROMAR 200 ZERO VOC INTERIOR LATEX. PROVIDE PAINT PRODUCTS FROM A SINGLE SOURCE.
 - NEW WALLS PROVIDE TWO TOP COATS AND ONE PRIMER COAT. TOP COAT: LOW ODOR/VOC INTERIOR LATEX. TOP COAT SHEEN: EGGSHELL OR LOW SHEEN. PRIMER AS RECOMMENDED BY MANUFACTURER.
 - EXISTING WALLS: PROVIDE PRIMER COAT AS REQUIRED BASED ON EXISTING PAINT FINISH. PROVIDE TWO TOP COATS.
 - EXISTING CORRIDOR WALLS: MATCH EXISTING PAINT PATTERN, FINISH AND COLORS.
 - FERROUS METAL DOORS AND TRIM: PROVIDE TWO TOP COATS OVER FACTORY PRIMED ITEMS. PROVIDE PRIMER COAT ON UNPRIMED ITEMS. TOP COATS: INTERIOR ACRYLIC ALKYL. FINIS: SEMI-GLOSS. PAINT EXISTING FRAMES AT NEW DOORS. PRIME AS REQUIRED FOR SUBSTRATE. TOP COATS SAME AS ABOVE.
 - EXISTING HARD CEILING: PROVIDE PRIMER COAT AS REQUIRED BASED ON EXISTING PAINT FINISH. PROVIDE TWO TOP COATS. TOP COAT SHEEN: FLAT.
 - FRP: GLASS FIBER REINFORCED PLASTIC PANELS. 4'X8'X10.10 INCH EMBOSSED. COLOR: WHITE. ADHESIVE ATTACHMENT WITH MATCHING VINYL TRIM JOINTS. MANUFACTURERS: MARLITE, NUDO, PANOLAM.
 - EXISTING JANITOR H102 PATCH AND REPAIR WALLS, FLOOR AND CEILING AS REQUIRED DUE TO NEW PLUMBING WORK. REPAINT WALLS AND CEILING (REMOVE WALL MOUNTED SHELVING TO PAINT, THEN REINSTALL). AT EXPOSED FLOOR SLAB PATCHING, GRIND SMOOTH TO BLEND WITH ADJACENT SLAB SURFACE, CLEAN ENTIRE FLOOR AND RESEAL WITH TWO COATS CONCRETE SEALER.

DEMOLITION NOTES

- REFER TO THE PLUMBING DRAWINGS FOR ALL REQUIRED NEW BELOW SLAB-ON-GRADE INSTALLATIONS AND THE EXTENTS OF EXISTING SLAB DEMO REQUIRED.
- PREPARE ALL EXISTING DEMO SURFACES FOR NEW FINISHES AS REQ'D BY THE CHOSEN FINISH MFG. SEE NEW FINISH SCHEDULE.
- PATCH & REPAIR ANY AREAS TO REMAIN THAT ARE DAMAGED OR AFFECTED BY DEMOLITION.
- PATCH AND REPAIR ANY REMAINING SURFACE AREAS WHICH PREVIOUSLY ABUTTED, TOUCHED, OR WAS OTHERWISE AFFECTED BY A DEMO ITEM.
- ALL EXISTING UNTOUCHED AREAS TO BE PROTECTED DURING DEMOLITION AND NEW CONSTRUCTION.
- THE CONTRACTOR IS TO SAFELY AND CLEANLY STORE ANY ITEM REMOVED WHICH IS INTENDED TO BE REINSTALLED OR RELOCATED DURING CONSTRUCTION (COORD. WITH COROR PLAN).
- EXISTING CEILING GRID IS TO REMAIN. CAREFULLY REMOVE ITEMS (TILES, GRILLES, DUCT, LIGHTS, ETC) TO BE DEMO. REPLACE ANY SECTIONS OR SEGMENTS OF CEILING GRID IN DISREPAIR OR DAMAGED DURING CONSTRUCTION.

GRAPHIC WALL TYPE LEGEND

- EXISTING WALL
- NEW MTL. STUD WALL (16" O.C. STUD SPACING) WITH 5/8" GWB FINISH

GENERAL CONSTRUCTION NOTES

- ALL NEW WALLS ARE DIMENSIONED TO THE FACE OF STUD, SIDE INDICATED. CLEAR DIMENSIONS, WHERE APPLICABLE, ARE DENOTED WITH "CL." ALL NEW WALLS LOCATED OFF EXISTING BUILDING IS FROM THE FACE OF EXISTING WALL FINISH.
- NEW TOILET ROOMS ARE FULLY ACCESSIBLE. ALL FIXTURES IN TOILET ROOMS H103 AND H104 ARE TO COMPLY WITH ACCESSIBILITY GUIDELINES.
- GWB/FRAMING: PROVIDE IMPACT RESISTANCE GWB AT ALL NEW WALLS TO RECEIVE PAINT FINISH. METAL FRAMING: GALVANIZED STEEL, OF SIZE AND PROPERTIES NECESSARY TO COMPLY WITH ASTM C754 FOR THE SPACING INDICATED, WITH MAX. DEFLECTION OF L/240 AT 5 PSF. SPACE STUDS AT 16" O.C. MAXIMUM.
- SEE DETAIL 5/A2.0 FOR ADJUSTABLE SHELVING DETAIL.

CEILING NOTES

- NEW LAY-IN CEILING TO BE LOCATED AT 8'-0" U.N.O.
- ACT. ACOUSTICAL CEILING TILE. 2 X 2 SQUARE EDGE WITH EXPOSED TEE GRID SYSTEM. COLOR: WHITE. MANUFACTURERS: ARMSTRONG, CERTANTEED, USG.

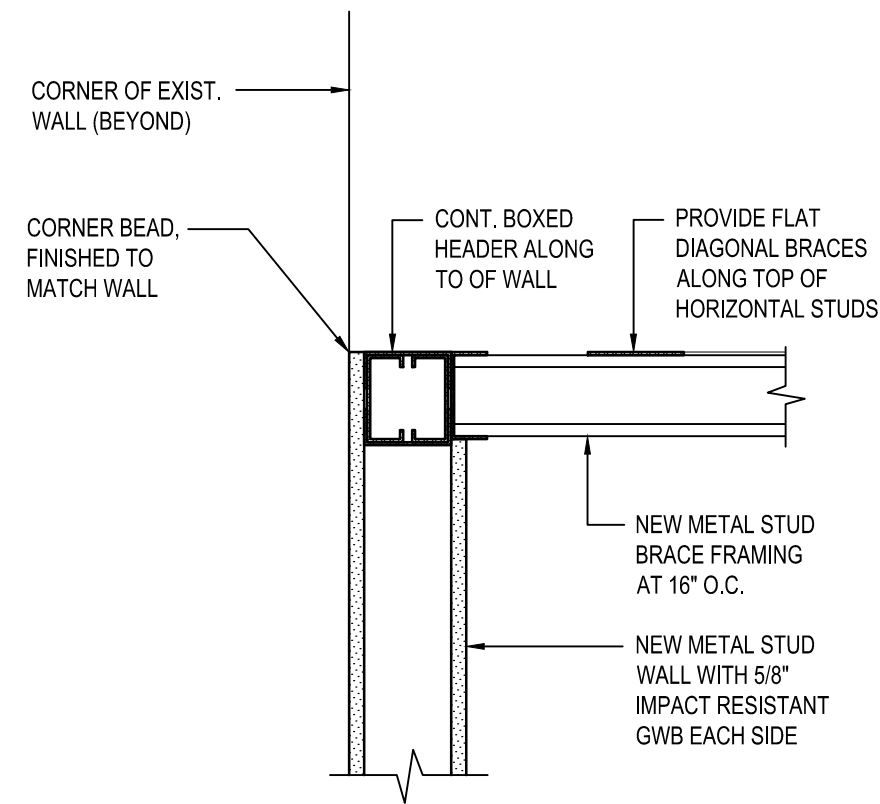
CEILING LEGEND

- GYP. BD. CLNG. (PAINTED)
- NEW 2'X2' LAY-IN SQUARE EDGE ACOUSTICAL TILE IN NEW SUSPENDED GRID
- NEW 2'X4' DROP-IN FLUORESCENT FIXTURE
- NEW 2'X2' DROP-IN FLUORESCENT FIXT.
- WALL MOUNTED LIGHT STRIP (NEW TOILET ROOM)
- EXHAUST GRILLE

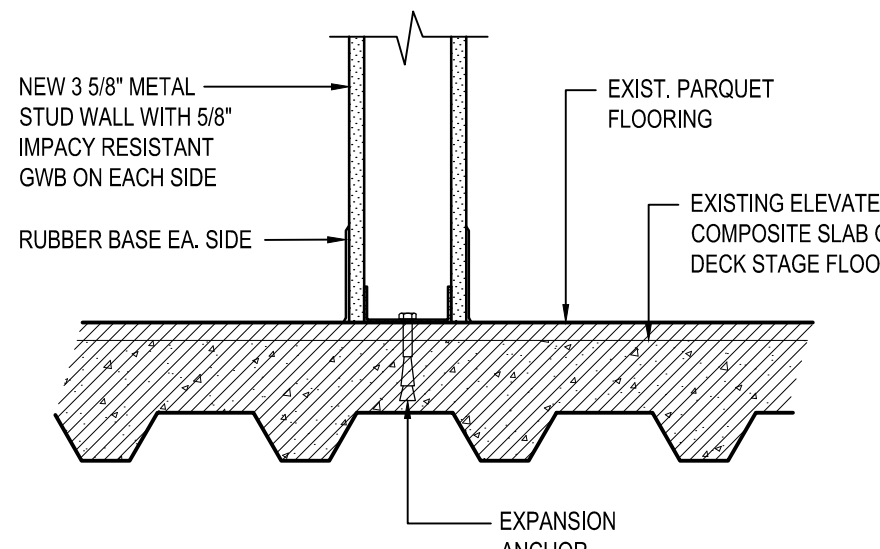
TOILET COMPARTMENT MANEUVERING SPACE LEGEND

- | SYM | DESCRIPTION |
|-----|---|
| ⊙ | 60" DIAMETER TURNING CIRCLE |
| ⊖ | 30" x 48" MANEUVERING SPACE PAST DOOR SWING |
| ⊕ | 30" x 48" APPROACH CLEARANCE. |
| ⊙ | 56" x 60" MANEUVERING CLEARANCE AT DOOR (18" CL. PULL SIDE), 48" x 48" IF PUSH SIDE (12" CL. PUSH SIDE WITH BOTH CLOSER & LATCH). |
| ⊙ | 60" x 56" CLEARANCE AT TOILET. |

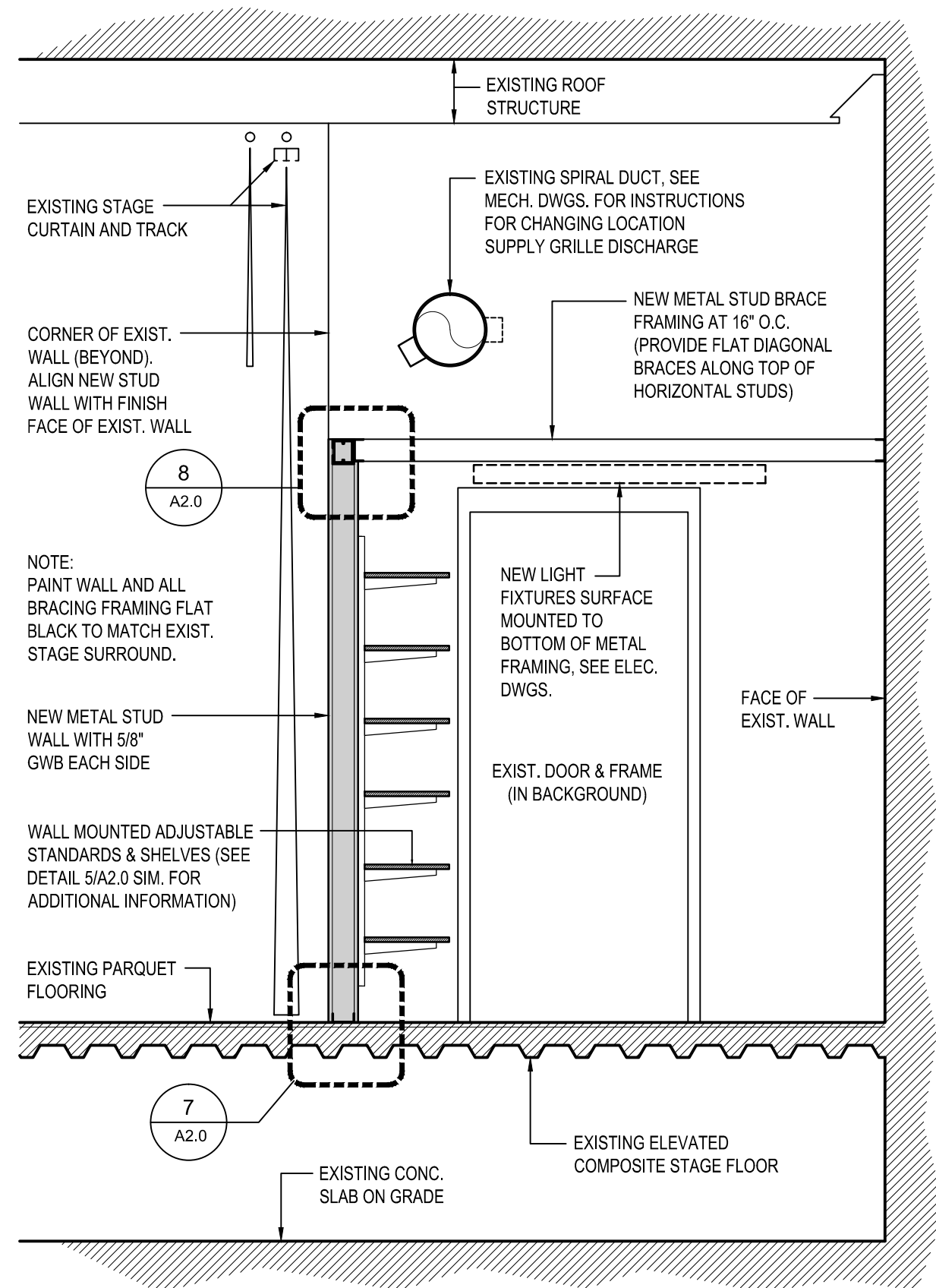
- NOTES:**
- SEE TOILET ROOM PLANS. CERTAIN REFERENCES MAY NOT APPLY.
 - MANEUVERING SPACES CAN OVERLAP.
 - A PLUMBING FIXTURE CANNOT BE IN THE MANEUVERING SPACE OF ANOTHER FIXTURE.



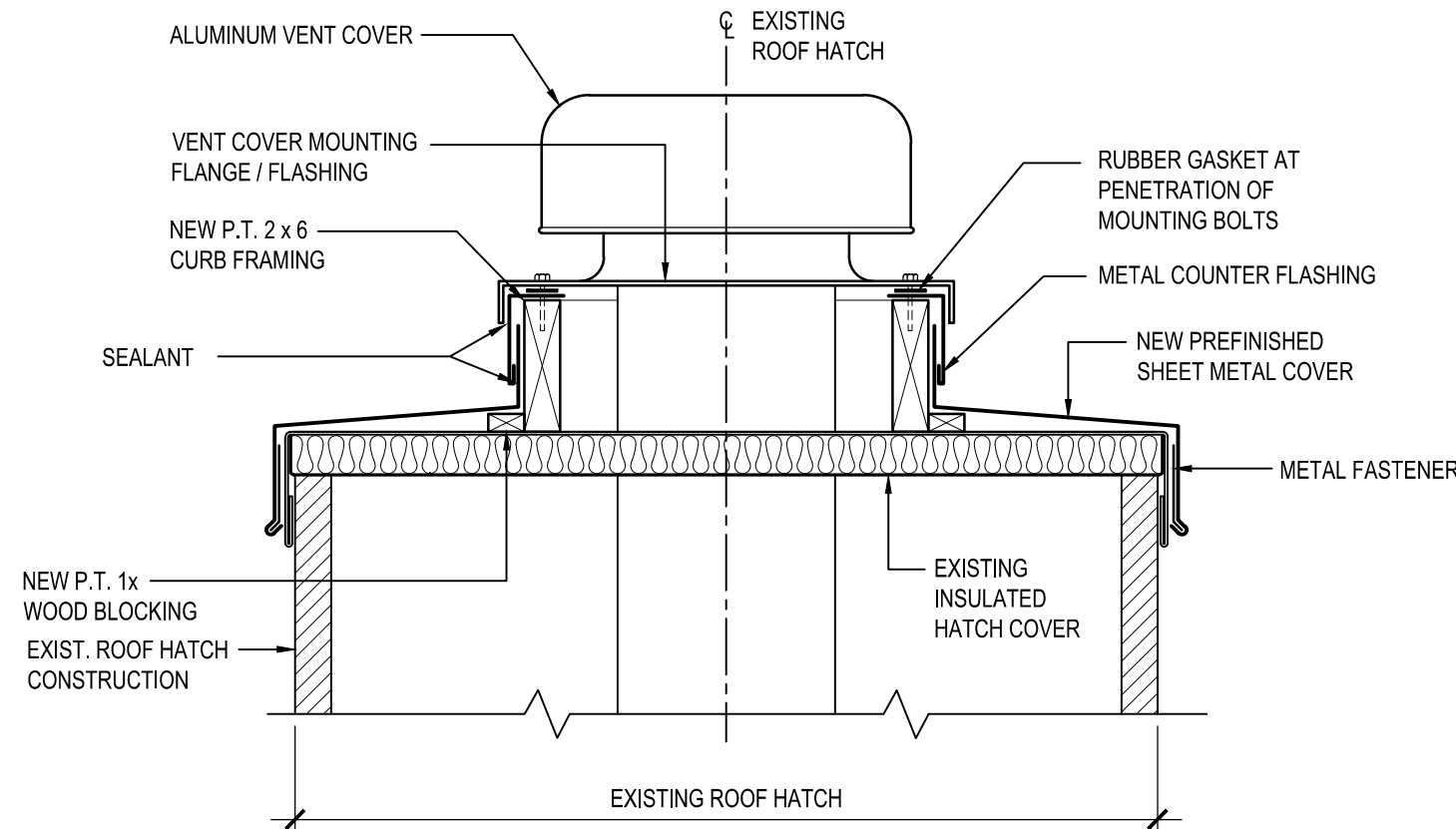
8 WALL FRAMING DETAIL
A2.0 1 1/2" = 1'-0"



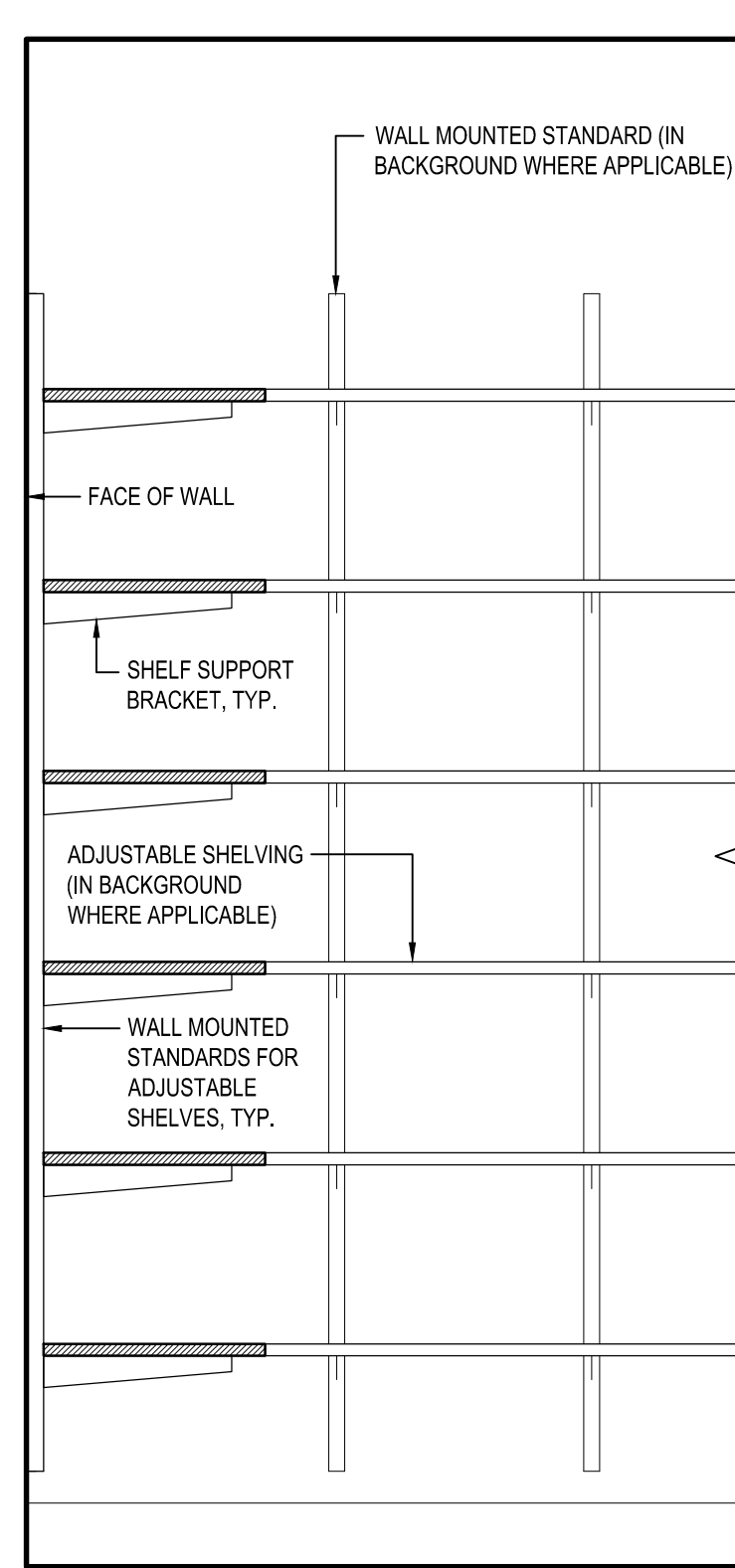
7 WALL ANCHOR DETAIL
A2.0 1 1/2" = 1'-0"



6 SECTION THRU NEW STAGE WALL
A2.0 1/2" = 1'-0"

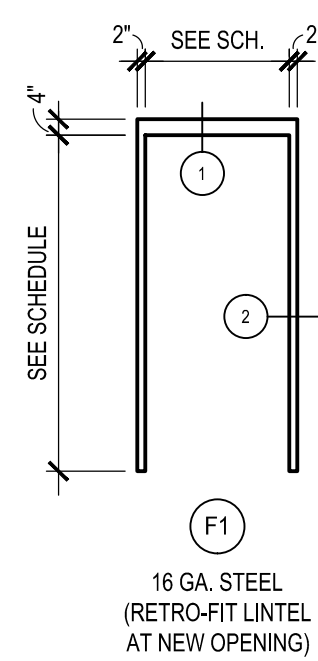


9 NEW EXHAUST VENT COVER DETAIL
A2.0 1 1/2" = 1'-0"

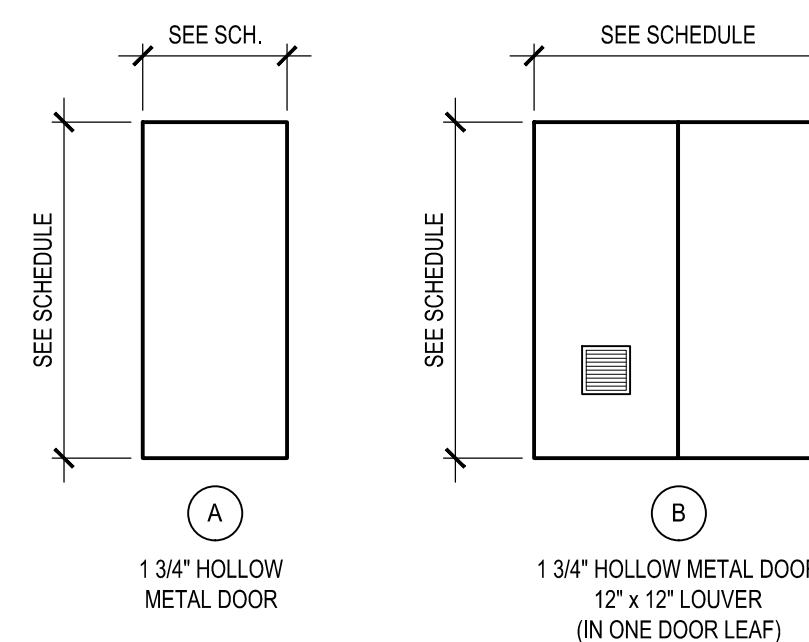


- NOTES:
- WALL STANDARDS, & BRACKETS TO BE HEAVY DUTY TO PROVIDE FOR MAX. LOADING. B.O.D.: K & V 85/185-ANO SERIES 14 GA. SHELVES. ACCEPTABLE MANUFACTURERS: ALLEN DISPLAY, KNAPE & VOGT, C.R. LAURENCE.
 - SHELVES: 3/4" BIRCH VENEER PLYWOOD, POLYURETHANE FINISH.
 - VERIFY MAXIMUM SPACING OF WALL STANDARDS WITH MFR'S. INSTALLATION RECOMMENDATIONS.
 - PROVIDE WOOD BLOCKING IN ALL STUD WALL CAVITIES AS REQUIRED FOR SECURE MOUNTING.
 - USE MANUFACTURER RECOMMENDED ATTACHMENT METHOD FOR THE SUBSTRATE CONDITION.
 - SEE ENLARGED PLANS FOR EXTENT OF NEW ADJUSTABLE SHELVING

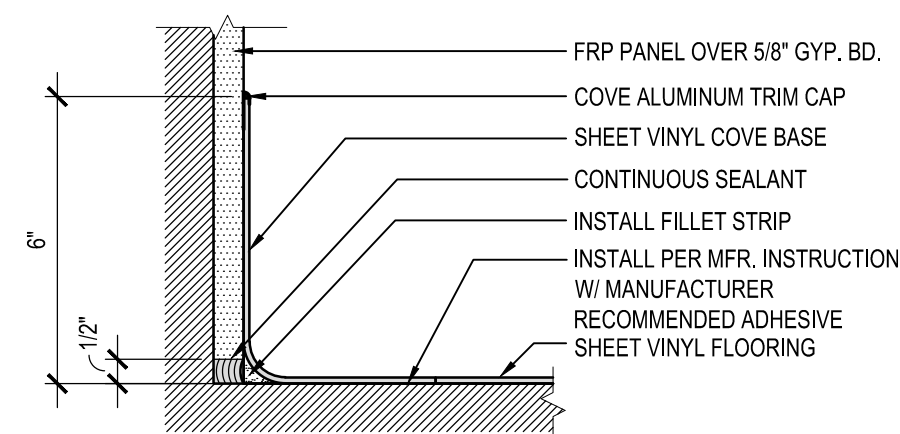
5 TYP. ADJUSTABLE SHELVING SECTION
A2.0 1" = 1'-0"



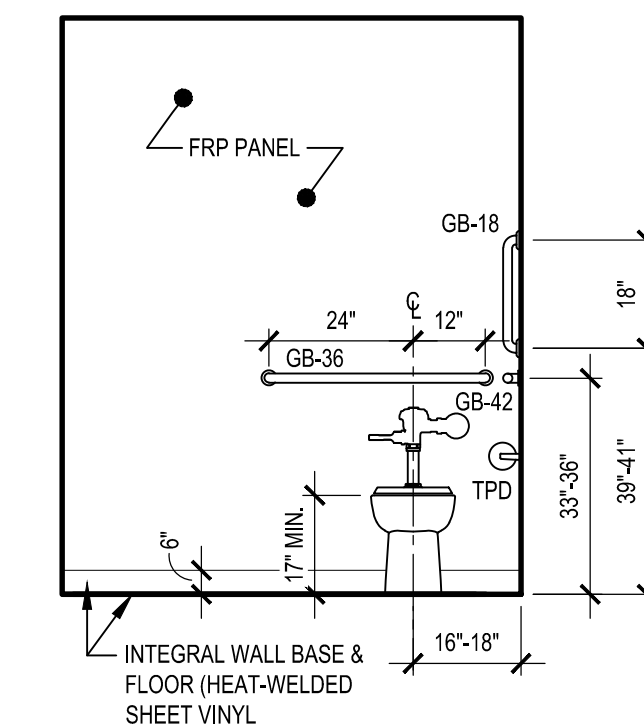
DOOR FRAME TYPE
SCALE: 1/4" = 1'-0"



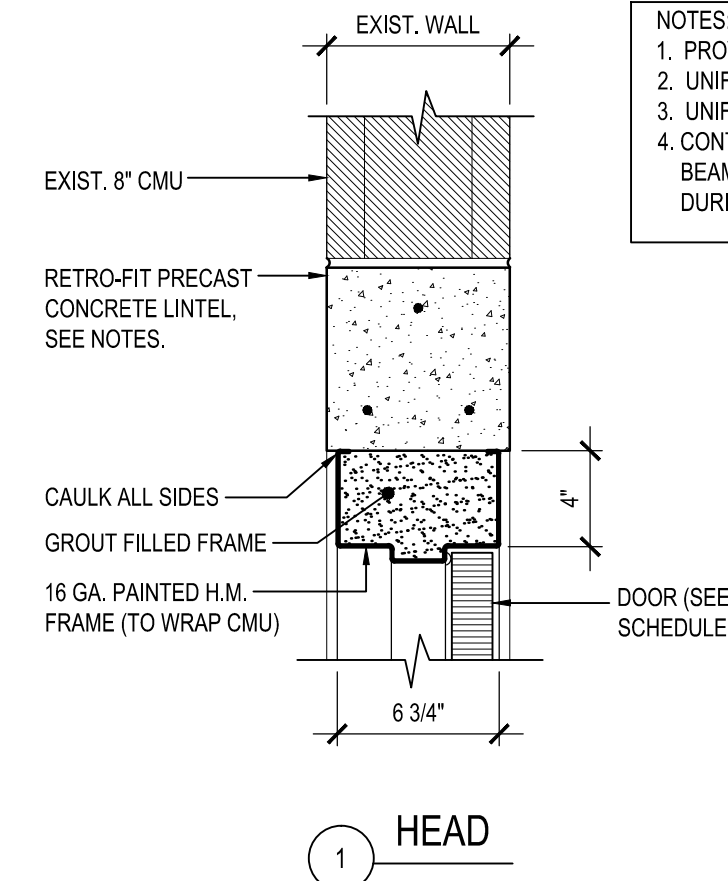
DOOR TYPES
SCALE: 1/4" = 1'-0"



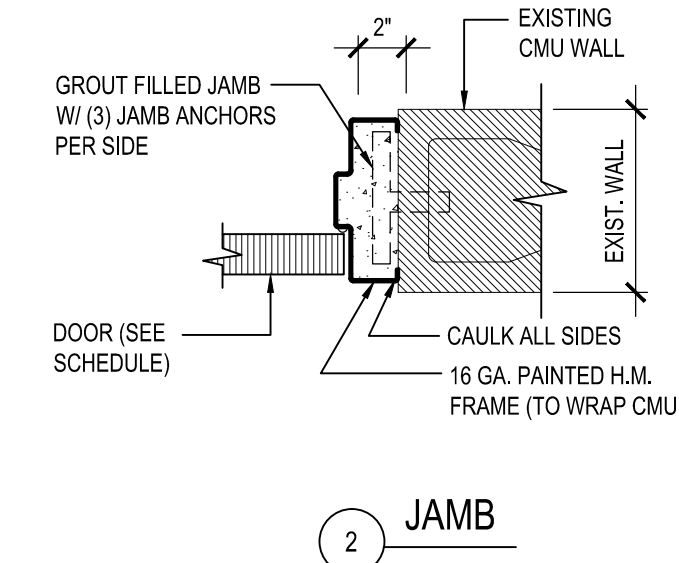
4 INTEGRAL BASE DETAIL
A2.0 1/4" = 1'-0"



3 TOILET ROOM ELEVATION
A2.0 1/4" = 1'-0"



- NOTES:
1. PROVIDE 8" MIN. BEARING EACH END.
 2. UNIFORM DEAD LOAD: 1.7 KIPS PER FOOT.
 3. UNIFORM LIVE LOAD: 1.2 KIPS PER FOOT.
 4. CONTRACTOR SHALL TEMPORARILY SHORE BEAM THAT BEARS ON WALL OVER NEW OPENING DURING INSTALLATION OF NEW LINTEL.



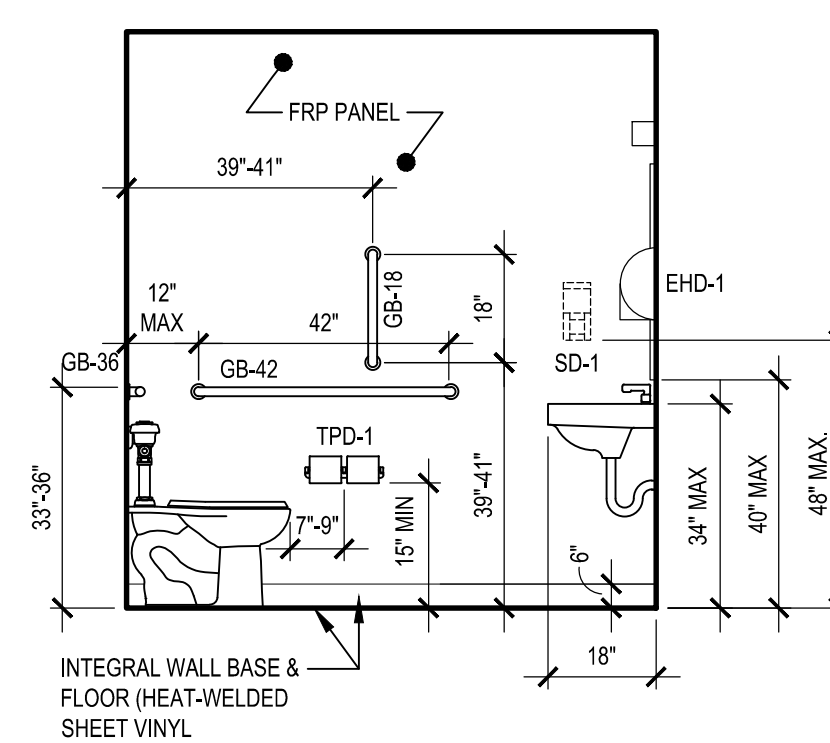
DOOR SCHEDULE										
ALL DOORS SHALL BE 1 3/4" THICK UNLESS OTHERWISE NOTED										
NO.	PR.	WIDTH	HEIGHT	DOOR TYPE	FRAME TYPE	HEAD	JAMB	RATING	HW SET	REMARKS
1	-	3'-0"	7'-0"	A	F1	-	-	3 HR	002	-
2	-	3'-0"	7'-0"	A	F1	-	-	3 HR	001	T
3	-	3'-0"	7'-0"	A	F1	-	-	3 HR	001	T
4	PR	6'-0"	7'-0"	B	B	-	-	45 MIN.	003	- KICK PLATE, LOUVERED VENT (WITH FUSIBLE LINKS) IN ONE DOOR LEAF. EXIST. FRAME TO REMAIN

- DOOR SCHEDULE NOTES:
1. ALL HARDWARE TO BE ADA COMPLIANT.
 2. PAINT NEW HOLLOW METAL DOOR/FRAMES
 3. WHERE EXISTING DOORS/FRAMES REMAIN IN AREA OF WORK, RE-PAINT FRAMES.
 4. SEE PLAN FOR DOOR HANDING & SWING DIRECTION.
 5. SIGNAGE TYPE "T": PROVIDE 8" X 6" UNISEX RESTROOM SIGN PER SECTION 703, ANSI 117.1 2009. B.O.D. MOHAWK SAND CARVED M 1000 SERIES. ACCEPTABLE MANUFACTURERS: APCO, MOHAWK, TAKEFORM.
 6. HOLLOW METAL DOORS AND FRAMES ACCEPTABLE MANUFACTURERS: ASSA ABLOY/CECO, REPUBLIC, STEELCRAFT.

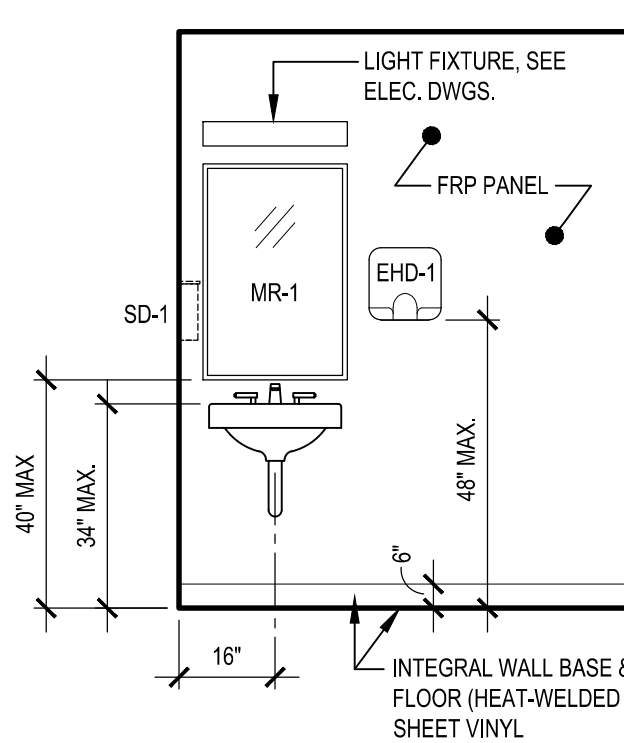
TOILET ACCESSORY SCHEDULE		
MARK	MODEL (Basis Of Design)	DESCRIPTION
GB-18	B-5006 x 18	GRAB BAR 18"
GB-36	B-5006 x 36	GRAB BAR 36"
GB-42	B-5006 x 42	GRAB BAR 42"
MR-1	B-165 24/36	MIRROR 24 x 36 (CHANNEL FRAME)
TPD-1	B-6699	SURFACE MOUNTED TOILET TISSUE DISP. W/ HOOD
RH-1	B-6707	SURFACE MOUNTED UTILITY (COAT) HOOK - (2) PER LOC.
EHD-1		ELECTRIC HAND DRYER: DYSON BLADE, EXCELEATOR OR PINNACLE P3-12S
SD-1	B-42	SURFACE MOUNTED SOAP DISPENSER (INSTALLED BY OWNER)

TOILET ROOM NOTES:

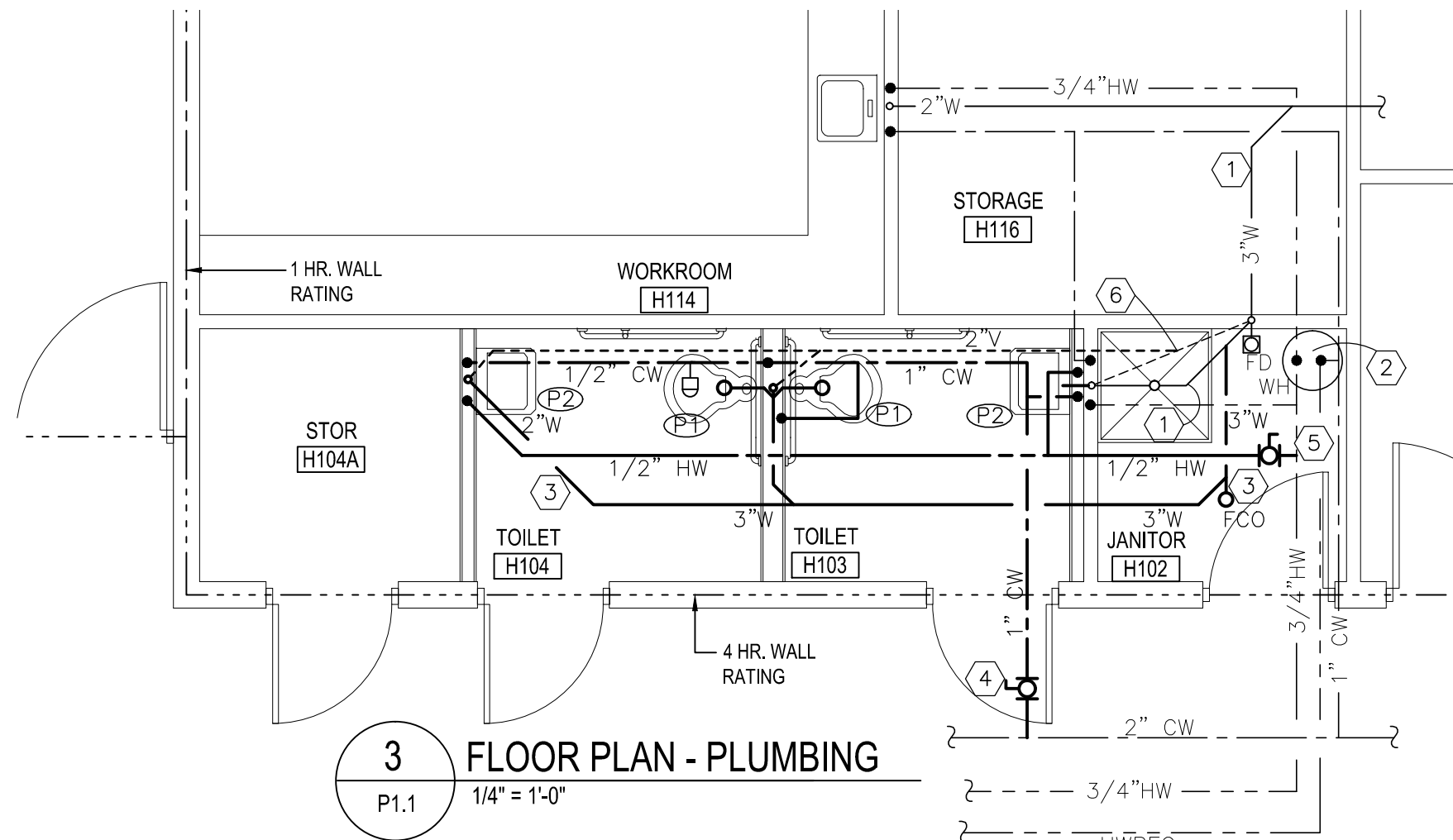
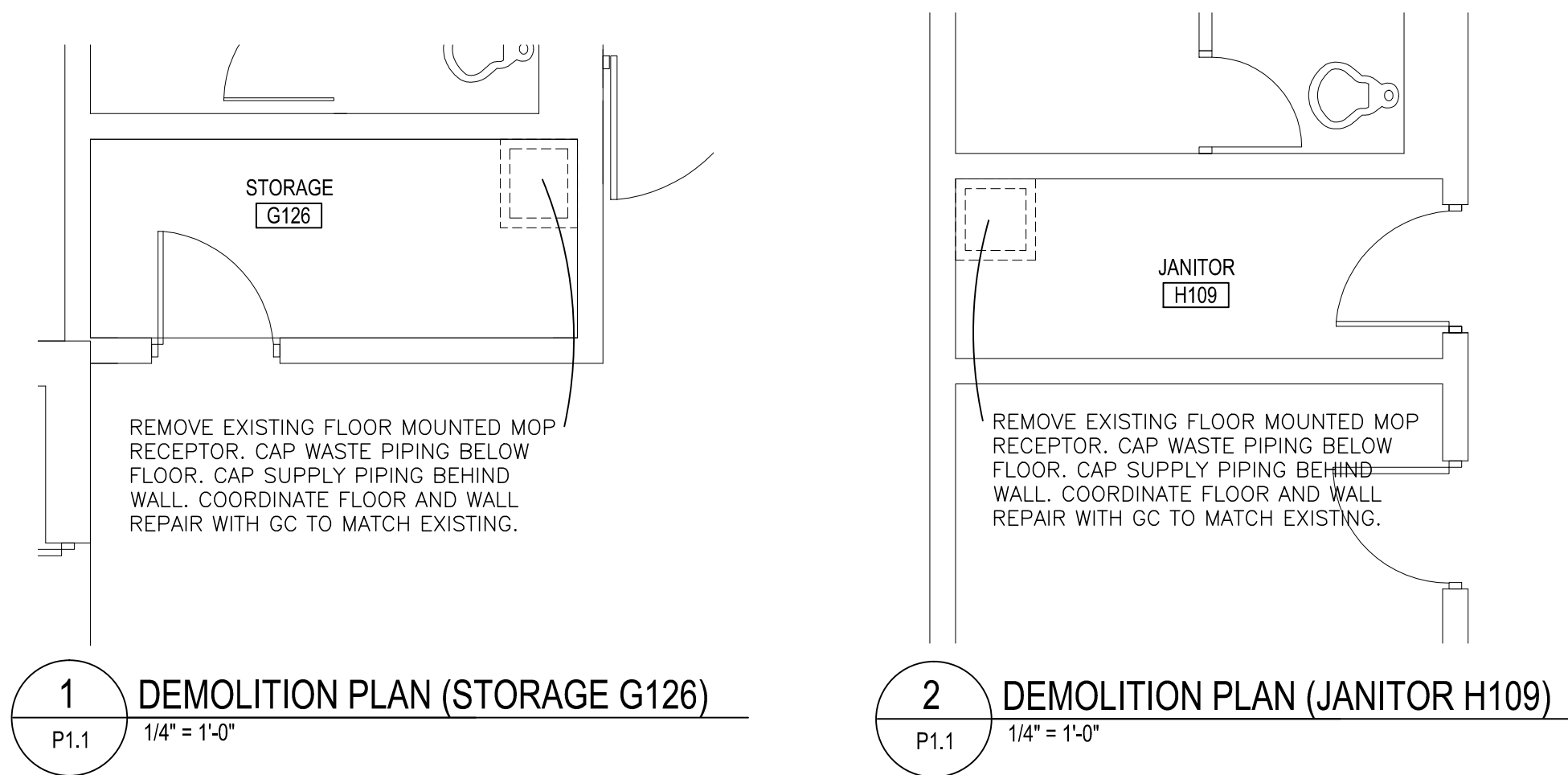
1. ALL MODEL NUMBERS ABOVE, EXCEPT WHERE NOTED OTHERWISE, ARE BOBRICK BRAND AS A BASIS OF DESIGN (U.N.O.). EQUIVALENT SELECTIONS BY AMERICAN SPECIALTIES, BRADLEY, OR MCKINNEY/PARKER ARE ACCEPTABLE.
2. SEE TYPICAL MOUNTING HEIGHT DETAILS FOR REQ'D DIMS & ELEVATIONS. ALL DIMS & ELEVATIONS TO CONFORM TO ANSI A117.1-2009.
3. PROVIDE WOOD BLOCKING AT ALL WALL-MOUNTED ACCESSORIES AT GWB WALLS.
3. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION NOT SHOWN HERE.



2 TOILET ROOM ELEVATION
A2.0 1/4" = 1'-0"



1 TOILET ROOM ELEVATION
A2.0 1/4" = 1'-0"

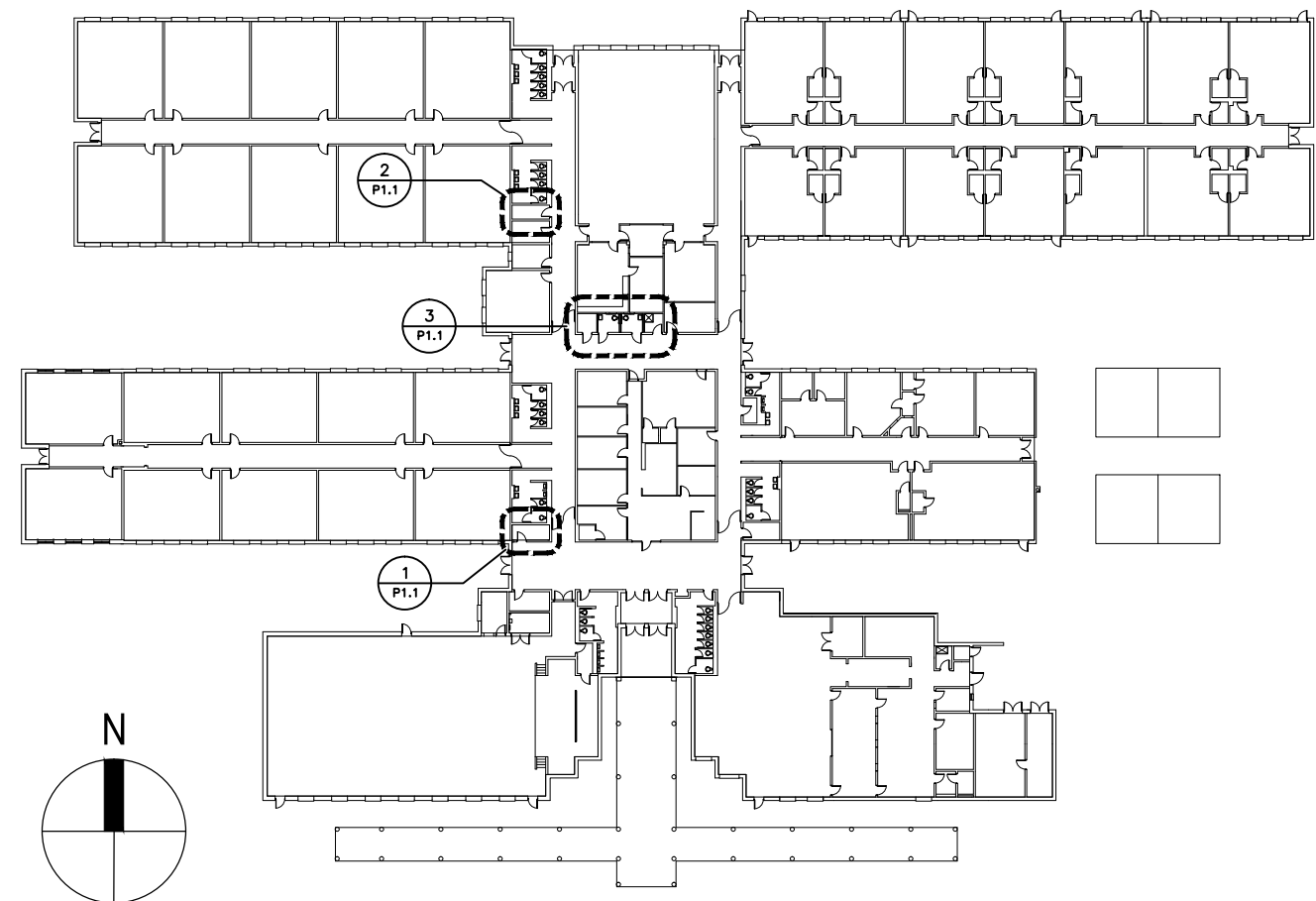


KEYED NOTES

- 1 PC SHALL CONFIRM EXISTING UNDER SLAB WASTE PIPE ROUTING AND SIZE TO ENSURE NEW CONNECTIONS CAN BE MADE.
- 2 TEMPORARILY REMOVE EXISTING WATER HEATER AND RECIRC PUMP. REINSTALL AND REWORK PIPING. SEE DETAIL SHEET P2.1.
- 3 TRENCH FLOOR AND ROUTE NEW WASTE PIPING TO EXISTING PIPING AS SHOWN.
- 4 TAP EXISTING 2" CW MAIN IN CORRIDOR. PROVIDE BALL VALVE AND 1" LINE ABOVE DROPPED CEILINGS TO FIXTURES AS SHOWN.
- 5 TAP EXISTING 3/4" HW MAIN IN JANITOR'S CLOSET. PROVIDE BALL VALVE AND 1/2" LINE ABOVE DROPPED CEILINGS TO LAVATORIES AS SHOWN.
- 6 CONNECT 2" VENT TO EXISTING 2" VENT IN THIS AREA.

PLUMBING GENERAL NOTES:

1. SYMBOLS AND ABBREVIATIONS MAY NOT ALL BE UTILIZED FOR THIS PROJECT.
2. ALL PIPING AND/OR CONDUIT PENETRATIONS THRU FIRE RATED FLOORS AND/OR PARTITIONS (WALLS) SHALL BE MADE/SEALED IN ACCORDANCE WITH UL LISTED SYSTEMS. COORDINATE FIRE RATED FLOORS, WALLS AND CEILINGS WITH ARCHITECTURAL DRAWINGS.
3. UNLESS OTHERWISE INDICATED PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, CORE-DRILLING AND PATCHING REQUIRED TO INSTALL PLUMBING WORK.
4. PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATING PLUMBING RELATED WORK WITH OTHER TRADES. PLUMBING CONTRACTOR IS CAUTIONED THAT IT IS TOTALLY HIS RESPONSIBILITY TO COORDINATE HANGERS AND SUPPORTS WITH OTHER TRADES.
5. VISIT THE SITE PRIOR TO BID DATE AND EXAMINE ALL AREAS TO BE RENOVATED. THOROUGHLY FAMILIARIZE YOURSELF WITH EXIST. CONDITIONS. NO EXTRA COMPENSATION WILL BE GIVEN FOR FAILURE TO THOROUGHLY EXAMINE EXIST. CONDITIONS TO DETERMINE THE EXACT SCOPE OF WORK. "KEYED" NOTES ON THE DRAWINGS ARE PROVIDED TO ASSIST BIDDERS TO DETERMINE THE SCOPE OF WORK.
6. EXISTING AREAS WHETHER WITHIN OR WITHOUT THE "GENERAL LIMITS OF CONSTRUCTION", SHALL BE REPAIRED WHERE ANY DAMAGE HAS OCCURRED DUE TO CONSTRUCTION BY THE CONTRACTOR.
7. ALL SHUTDOWNS OF THE EXISTING UTILITIES SHALL BE SCHEDULED IN ADVANCE WITH OWNER.
8. PLUMBING CONTRACTOR IS RESPONSIBLE FOR SEALING ALL PIPING PENETRATIONS THROUGH ALL NEW NON-RATED WALLS TO PREVENT SOUND TRANSFER. GYPSUM WALL BOARD "MUD" MAY BE USED. PLUMBING CONTRACTOR IS RESPONSIBLE FOR SEALING PIPING PENETRATIONS THROUGH ALL FIRE RATED WALLS AND/OR FLOORS.
9. REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES NOT SHOWN ON PLANS.
10. UNLESS OTHERWISE NOTED, WASTE PIPING SHOWN ON THE PLANS IS LOCATED BELOW THE FLOOR LEVEL OF THE PLAN SHOWN. WATER AND VENT PIPING IS LOCATED IN THE CEILING LEVEL OF THE PLAN SHOWN.
11. PLUMBER SHALL PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE AND PROPERLY FUNCTIONING PROJECT INCLUDING BUT NOT LIMITED TO; STOP VALVES, SUPPLY HOSES, AND P-TRAPS ETC. PC SHALL INSTALL ALL FIXTURES, FAUCETS AND ACCESSORIES REQUIRED TO PROVIDE A COMPLETE AND PROPERLY FUNCTIONING PROJECT. SEE FIXTURE SCHEDULE FOR PIPE SIZES AND PC SUPPLIED FIXTURES.
12. WARRANT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHOWN OR IMPLIED BY THESE DOCUMENTS TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM THE TIME OF ACCEPTANCE BY THE OWNER. IF WITHIN ONE YEAR AFTER THE OWNER'S ACCEPTANCE DATE ANY WORK OR EQUIPMENT IS FOUND TO BE DEFECTIVE, CORRECT IT PROMPTLY AT NO COST TO THE OWNER.
13. A PLUMBING INSPECTION CERTIFICATE SHALL BE ISSUED BY THE INSPECTION AUTHORITIES HAVING JURISDICTION BEFORE WORK WILL BE APPROVED FOR FINAL PAYMENT.
14. ALL DOMESTIC WATER PIPING SHALL BE TYPE L COPPER.
15. WASTE AND VENT PIPING ABOVE AND BELOW GRADE SHALL BE CAST IRON.
16. PLUMBING CONTRACTOR IS RESPONSIBLE FOR CUTTING OF ANY CONCRETE, TRENCHING AND BACKFILL REQUIRED TO INSTALL WASTE PIPING. GC IS RESPONSIBLE FOR CONCRETE REPAIR.



SUD ASSOCIATES, P.A.
CONSULTING ENGINEERS
LICENSE # C-1035

1813 CHAPEL HILL ROAD
DURHAM, NORTH CAROLINA
919-493-5277

FLAT IRON BUILDING SUITE 706
20 BATTERY PARK AVENUE
ASHEVILLE, NORTH CAROLINA
828-255-4691

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PROJECT NO. 15241

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PROGRESS DRAWING
NOT FOR
CONSTRUCTION

BUNCOMBE COUNTY SCHOOLS
MINOR RENOVATIONS TO AVERY'S CREEK
ELEMENTARY SCHOOL
ARDEN, NORTH CAROLINA

DSP NO: 110-4075 PROJECT #6782

Revision

Project number
1535
Drawn by
DCR
Name
PLUMBING
-
-
Date
10/30/15
Sheet

P1.1

PLUMBING FIXTURE SCHEDULE										
MARK	FIXTURE TYPE	MANUFACTURER	MODEL	MOUNTING	COLOR	DESCRIPTION	FIXTURE CONNECTION SIZES			
							C.W.	H.W.	Waste	Vent
P-1	WATER CLOSET (ACCESSIBLE)	KOHLER	K-4405	FLOOR RIM 17-1/2" AFF	WHITE	VITREOUS CHINA, FLOOR MOUNT, 17" HIGH, ELONGATED BOWL, SIPHON JET FLUSHING, 1-1/2" TOP SPUD, 1.28 GPF. SEAT: SOLID PLASTIC, ELONGATED OPEN FRONT, CHECK HINGE. ADA/NC ACCESSIBILITY CODE COMPLIANCE.	1"	-----	3"	2"
	FLUSH VALVE	HYDROTEK	HB-8-128	EXPOSED 1-1/2" TOP SPUD MIN. 26" AFF TO CL	CHROME	QUIET, EXPOSED, BATTERY POWERED, SENSOR ACTIVATED, DIAPHRAGM TYPE CLOSET FLUSHOMETER, 1.28 GPF, SCREW DRIVER STOP, VACUUM BREAKER, DUAL FILTERED BY-PASS FREE SPINNING VANDAL RESISTANT STOP CAP, CAST WALL FLANGE. ADA/NC ACCESSIBILITY CODE COMPLIANCE				
P-2	LAVATORY	KOHLER	K-2867	WALL	WHITE	20"x18", CAST IRON, WALL HUNG, CONCEALED ARM CARRIER, 2 HOLE, 1 1/4" CAST BRASS P-TRAP WITH C.O. PLUG, GRID DRAIN, PROVIDE INSULATION FOR EXPOSED SUPPLY AND WASTE PIPING BELOW LAVATORY. ADA/NC ACCESSIBILITY CODE COMPLIANCE	1"	-----	3"	2"
	FAUCET	CHICAGO	116.222.AB.1	DECK	CHROME	AUTOMATIC, BATTERY OPERATED FAUCET. SOLID BRASS CONSTRUCTION, BASE PLATE FOR 4" CENTER LAVATORY OR SINGLE HOLE MOUNTING TRIM AS NEEDED FOR EACH LAVATORY. FIELD VERIFY. CHROME FINISH, 0.5 MAX. GPM VANDAL RESISTANT AERATOR. ADA/NC ACCESSIBILITY CODE COMPLIANCE				

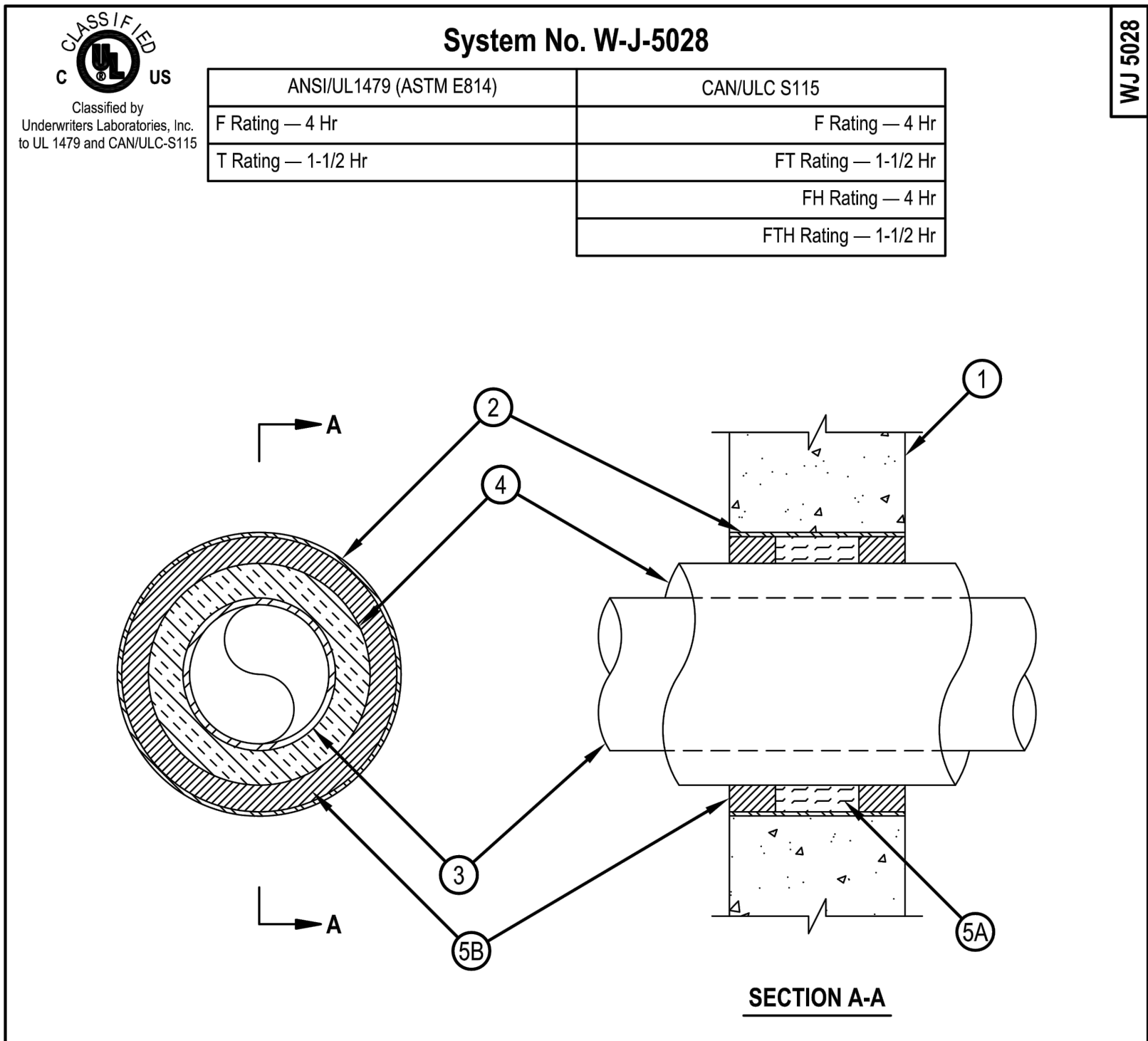
PLUMBING LEGEND	
SYMBOL	DESCRIPTION
----- CW -----	COLD WATER PIPING
----- HW -----	HOT WATER PIPING
-----	WASTE PIPING
-----	SANITARY VENT PIPING
	SHOCK ABSORBER
	FLOOR CLEANOUT
	FLOOR DRAIN WITH TRAP PRIMER
	BALL VALVE 1/2" - 2"
-----	1 HOUR FIRE WALL
-----	4 HOUR FIRE WALL

PLUMBING SPECIFICATIONS:

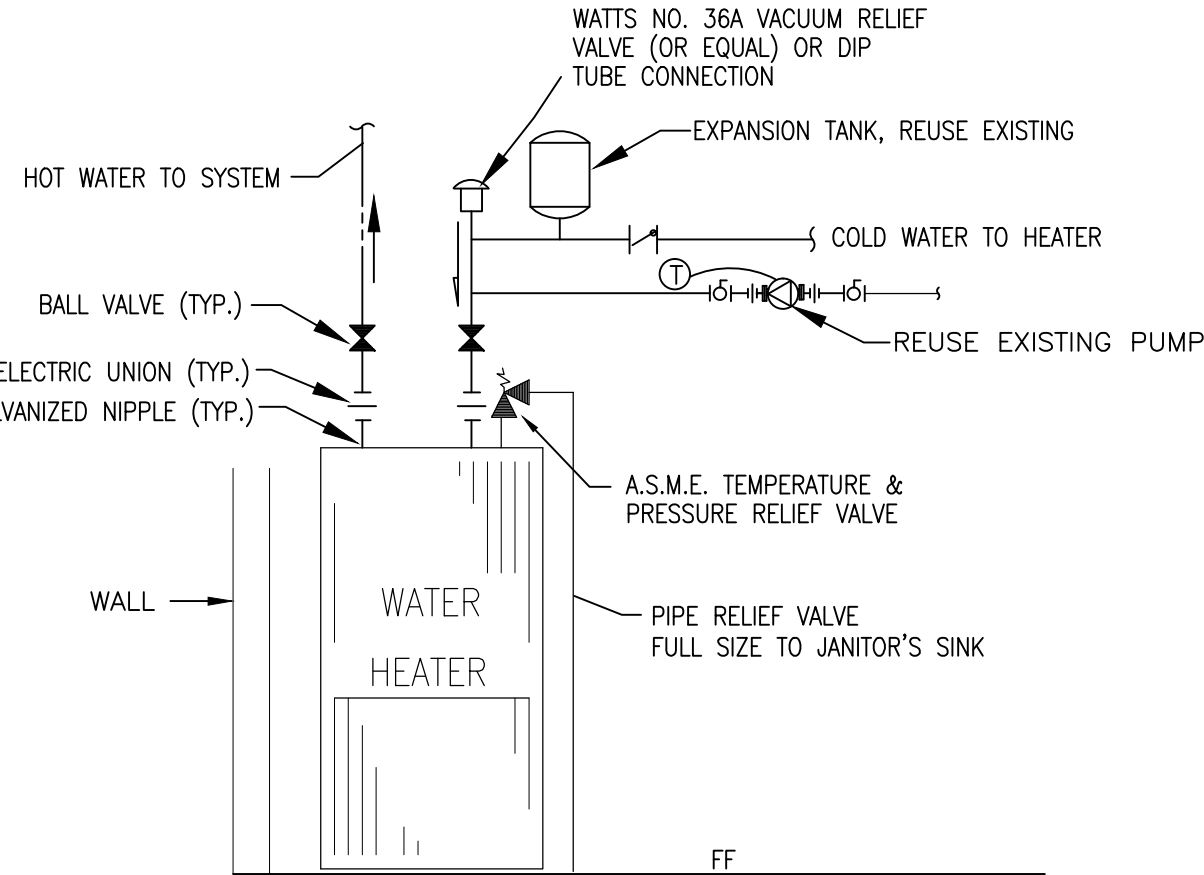
- INTENT:** THESE OUTLINE SPECIFICATIONS AND ACCOMPANYING DRAWINGS DESCRIBE SCOPE OF WORK REQUIRED FOR PLUMBING WORK. LABOR AND MATERIAL SHALL BE PROVIDED AS REQUIRED FOR A COMPLETE, WORKMANLIKE INSTALLATION OF ALL WORK SHOWN ON DIAGRAMMATIC DRAWINGS AND/OR AS SPECIFIED HEREIN.
 - CODES, PERMITS, AND INSPECTIONS:** ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES AND NFPA REQUIREMENTS. OBTAIN ALL PERMITS REQUIRED, GIVE ALL LEGAL NOTICES, AND HAVE ALL WORK INSPECTED AS REQUIRED BY LOCAL OR STATE LAW.
 - WORKMANSHIP:** COMPETENT SKILLFUL WORKMEN SHALL DO ALL WORK IN A FINISHED, THOROUGHLY SUBSTANTIAL AND CRAFTSMANLIKE MANNER. THIS IS INTENDED TO REFER PARTICULARLY TO SMALLER DETAILS NECESSARY BUT USUALLY NOT SPECIFIED OR INDICATED ON THE DRAWINGS. ALL SUB-STANDARD WORK, INSTALLED BY THIS CONTRACTOR, SHALL BE REPLACED BY THIS CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. IF THIS CONTRACTOR DAMAGES EXISTING WORK, HE SHALL PAY THE COST OF REPLACEMENT OF THE DAMAGED WORK AT NO ADDITIONAL EXPENSE TO THE OWNER. ENGINEER SHALL BE THE JUDGE OF WORKMANSHIP AND HIS OPINION SHALL BE FINAL.
 - SUPERVISION:** CONSTANTLY SUPERVISE THE WORK FROM THE BEGINNING TO COMPLETION AND FINAL REVIEW.
 - PROGRESS OF WORK:** DILIGENTLY PERFORM THE WORK AS RAPIDLY AS POSSIBLE AND MINIMIZE DISCOMFORT OF BUILDING OCCUPANTS.
 - EQUIPMENT LOCATIONS:** DETERMINE EXACT EQUIPMENT AND MATERIALS LOCATIONS TO PROVIDE BEST ARRANGEMENT AND TO FACILITATE PROPER MAINTENANCE AND SERVICING OF EQUIPMENT. COORDINATE CLOSELY WITH OWNER.
 - EQUIPMENT SUPPORTS:** PROVIDE ALL NECESSARY SUPPORTS FOR MOUNTING ALL EQUIPMENT AND PIPING, SUCH SUPPORTS TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
 - INTERFERENCES:** PLANS ARE GENERALLY DIAGRAMMATIC. CONTRACTOR SHALL AVOID INTERFERENCES WITH CONDUITS, PIPING, EQUIPMENT, ARCHITECTURAL AND STRUCTURAL WORK. NECESSARY OFFSETS IN FITTINGS, ETC., REQUIRED TO PROPERLY INSTALL EQUIPMENT SO AS TO TAKE UP A MINIMUM SPACE SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR WITH NO ADDITIONAL EXPENSE TO THE OWNER.
 - UNDERWRITER'S LABORATORIES APPROVAL:** ALL ELECTRICAL EQUIPMENT FURNISHED SHALL BE UL APPROVED AND SHALL BE LABELED OR LISTED BY UL. NO EQUIPMENT SHALL BE APPROVED WHICH FAILS TO MEET THESE CONDITIONS.
 - STORAGE OF MATERIAL:** CONSULT WITH THE OWNER FOR STORAGE SPACE AT THE JOB SITE IF REQUIRED. STORAGE SPACE MUST BE SECURED AND CONTRACTOR'S REPRESENTATIVE MUST BE ON JOB BEFORE ANY MATERIAL MAY BE RECEIVED. OWNER IS NOT RESPONSIBLE FOR SECURITY.
 - CLEAN-UP:** REMOVE ALL DEBRIS DUE TO THIS WORK AND REPAIR, CLEAN AND REPLACE ALL SURFACES DAMAGED OR SOILED AS A RESULT OF THIS WORK AT NO ADDITIONAL EXPENSE TO THE OWNER. REMOVAL OF DEBRIS SHALL BE DAILY OR AS REQUIRED TO MAINTAIN SAFE, CLEAN WORKING CONDITIONS.
 - SHOP DRAWINGS/SUBMITTAL DATA:** SUBMIT SIX (6) COPIES OF SHOP DRAWINGS/SUBMITTAL DATA FOR ALL EQUIPMENT AND MATERIALS FOR REVIEW. CLEARLY IDENTIFY ALL ITEMS.
 - PLACING IN SERVICE, TESTS, INSTRUCTIONS AND MAINTENANCE:** MAKE ALL NECESSARY TESTS, TRIAL OPERATIONS, ETC., REQUIRED AND DIRECTED BY APPLICABLE CODES AND STANDARDS AND THE DESIGNER TO PROVE THAT ALL SYSTEMS ARE IN COMPLETE SERVICEABLE CONDITION AND WILL FUNCTION AS INTENDED.
- WARRANTY CERTIFICATE FOR EQUIPMENT WILL COMMENCE UPON DATE OF ACCEPTANCE OF WORK BY OWNER. SUBMIT WRITTEN CERTIFICATE WITH MAINTENANCE DATA.**
 - WARRANTY:** CORRECT ANY DEFECTS IN WORKMANSHIP AND/OR MATERIAL WHICH OCCUR DURING THE FIRST YEAR OF OPERATION.
 - HANGERS, SUPPORTS AND ANCHORS:** SUPPORT AND FASTEN ALL CONDUIT, PIPING, DUCTWORK, EQUIPMENT, ETC., SECURELY IN PLACE. SPACE, SECURE AND ADJUST HANGERS WITHOUT DEFLECTION OR SAG. CHAIN, STRAP, PERFORATED STRAP, WIRE HANGERS, OR WOOD PLUGS ARE PROHIBITED. PROVIDE STEEL SUPPORTS, ANCHORS, FRAMES, BRACING, PLATES, BOLTS, NUTS, WASHERS, ETC., INCIDENTAL TO INSTALLATION OF WORK AS SPECIFIED OR REQUIRED. SUPPORT EQUIPMENT FROM THE STRUCTURE IN AN APPROVED MANNER. NO PORTION OF THE STRUCTURE SHALL BE OVERSTRESSED BY THE HANGING OPERATION OR BY THE FINAL SUPPORTS. PROVIDE AUXILIARY STRUCTURAL MEMBERS WHERE REQUIRED BETWEEN MEMBERS OF THE STRUCTURE. INSTALL IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC AND ANSI B31.9. ALL EQUIPMENT, UNLESS SHOWN OTHERWISE, SHALL BE SECURELY ATTACHED TO THE BUILDING STRUCTURE IN AN APPROVED MANNER. ATTACHMENTS THAT ARE, IN THE OPINION OF THE DESIGNER, INADEQUATE SHALL BE REPLACED AS DIRECTED.
 - BALL VALVES:** RATED FOR 150 PSI SATURATED STEAM PRESSURE, 400 PSI WOG PRESSURE; TWO-PIECE CONSTRUCTION; WITH BRONZE BODY CONFORMING TO ASTM B 62; FULL PORT; CHROME-PLATED BRASS BALL, REPLACEABLE "TEFLON" OR "TFE" SEATS AND SEALS, BLOWOUT-PROOF STEM, AND VINYL-COVERED STEEL HANDLE.
 - WATER HAMMER ARRESTERS:** BELLOWES TYPE, WITH STAINLESS STEEL CASING AND BELLOWES, PRESSURE RATED FOR 250 PSI, TESTED AND CERTIFIED IN ACCORDANCE WITH PDI STANDARD WH-201 OR PISTON OPERATED MEETING ANSI/ASME A112.26.1M-1984, OR ASSE STANDARD NO. 1010. SIZES TO MATCH FIXTURE UNITS SUPPLYING MAINS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE WATER DISTRIBUTION DIAGRAM FOR LOCATION. PROVIDE A BALL VALVE PRECEDING WATER HAMMER ARRESTER.
 - DOMESTIC WATER PIPE AND FITTINGS:** COPPER TUBE: ASTM B 88, TYPE L WATER TUBE, DRAWN TEMPER. WROUGHT COPPER SOLDER-JOINT FITTINGS: ANSI B 16.22, STREAMLINED PATTERN. SOLDER FILLER METAL: ASTM B 32, 95-5 TIN-ANTIMONY.
 - PIPE INSULATION:** PROVIDE 1/2" EXPANDED RUBBER INSULATION (ARMAFLEX) FOR COLD WATER AND 1" FOR HOT WATER.

PLUMBING GENERAL NOTES:

- SYMBOLS AND ABBREVIATIONS MAY NOT ALL BE UTILIZED FOR THIS PROJECT.
- ALL PIPING AND/OR CONDUIT PENETRATIONS THRU FIRE RATED FLOORS AND/OR PARTITIONS (WALLS) SHALL BE MADE/SEALED IN ACCORDANCE WITH UL LISTED SYSTEMS. COORDINATE FIRE RATED FLOORS, WALLS AND CEILINGS WITH ARCHITECTURAL DRAWINGS.
- UNLESS OTHERWISE INDICATED PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, CORE-DRILLING AND PATCHING REQUIRED TO INSTALL PLUMBING WORK.
- PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATING PLUMBING RELATED WORK WITH OTHER TRADES. PLUMBING CONTRACTOR IS CAUTIONED THAT IT IS TOTALLY HIS RESPONSIBILITY TO COORDINATE HANGERS AND SUPPORTS WITH OTHER TRADES.
- VISIT THE SITE PRIOR TO BID DATE AND EXAMINE ALL AREAS TO BE RENOVATED. THOROUGHLY FAMILIARIZE YOURSELF WITH EXIST. CONDITIONS. NO EXTRA COMPENSATION WILL BE GIVEN FOR FAILURE TO THOROUGHLY EXAMINE EXIST. CONDITIONS TO DETERMINE THE EXACT SCOPE OF WORK. "KEYED" NOTES ON THE DRAWINGS ARE PROVIDED TO ASSIST BIDDERS TO DETERMINE THE SCOPE OF WORK.
- EXISTING AREAS WHETHER WITHIN OR WITHOUT THE "GENERAL LIMITS OF CONSTRUCTION", SHALL BE REPAIRED WHERE ANY DAMAGE HAS OCCURRED DUE TO CONSTRUCTION BY THE CONTRACTOR.
- ALL SHUTDOWNS OF THE EXISTING UTILITIES SHALL BE SCHEDULED IN ADVANCE WITH OWNER.
- PLUMBING CONTRACTOR IS RESPONSIBLE FOR SEALING ALL PIPING PENETRATIONS THROUGH ALL NEW NON-RATED WALLS TO PREVENT SOUND TRANSFER. GYPSUM WALL BOARD "MUD" MAY BE USED. PLUMBING CONTRACTOR IS RESPONSIBLE FOR SEALING PIPING PENETRATIONS THROUGH ALL FIRE RATED WALLS AND/OR FLOORS.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPE SIZES NOT SHOWN ON PLANS.
- UNLESS OTHERWISE NOTED, WASTE PIPING SHOWN ON THE PLANS IS LOCATED BELOW THE FLOOR LEVEL OF THE PLAN SHOWN. WATER AND VENT PIPING IS LOCATED IN THE CEILING LEVEL OF THE PLAN SHOWN.
- PLUMBER SHALL PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE AND PROPERLY FUNCTIONING PROJECT INCLUDING BUT NOT LIMITED TO; STOP VALVES, SUPPLY HOSES, AND P-TRAPS ETC. PC SHALL INSTALL ALL FIXTURES, FAUCETS AND ACCESSORIES REQUIRED TO PROVIDE A COMPLETE AND PROPERLY FUNCTIONING PROJECT. SEE FIXTURE SCHEDULE FOR PIPE SIZES AND PC SUPPLIED FIXTURES.
- WARRANT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHOWN OR IMPLIED BY THESE DOCUMENTS TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM THE TIME OF ACCEPTANCE BY THE OWNER. IF WITHIN ONE YEAR AFTER THE OWNER'S ACCEPTANCE DATE ANY WORK OR EQUIPMENT IS FOUND TO BE DEFECTIVE, CORRECT IT PROMPTLY AT NO COST TO THE OWNER.
- A PLUMBING INSPECTION CERTIFICATE SHALL BE ISSUED BY THE INSPECTION AUTHORITIES HAVING JURISDICTION BEFORE WORK WILL BE APPROVED FOR FINAL PAYMENT.
- ALL DOMESTIC WATER PIPING SHALL BE TYPE L COPPER.
- WASTE AND VENT PIPING ABOVE AND BELOW GRADE SHALL BE CAST IRON.
- PLUMBING CONTRACTOR IS RESPONSIBLE FOR CUTTING OF ANY CONCRETE, TRENCHING AND BACKFILL REQUIRED TO INSTALL WASTE PIPING. GC IS RESPONSIBLE FOR CONCRETE REPAIR.



- System No. W-J-5028**
- Wall Assembly — Min 7-5/8 in. (194 mm) thick wall assembly constructed of any UL Classified Concrete Blocks*. Min 4 hr fire rated wall. Max diam of opening is 18-1/2 in. (470 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
 - Steel Sleeve — Cylindrical sleeve fabricated from min 0.035 in. (0.9 mm) thick (No. 20 gauge) galv steel sheet steel and having a min 2 in. (51 mm) lap along the longitudinal seam. Length of sleeve to be equal to thickness of wall. Sleeve to be installed by coiling the sheet metal to a diam smaller than the through opening, inserting the coil through the openings and releasing the coil to let it uncoil against the circular cutouts in the concrete blocks.
 - Through Penetrants — One metallic pipe or tubing to be installed concentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes or tubing may be used:
 - A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - B. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
 - Pipe Covering — Nom 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (3.5 pcf or 56 kg/m3) glass fiber units jacketed of the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the steel sleeve shall be min 1-1/4 in. (32 mm) to max 1-1/2 in. (38 mm). See Pipe Equipment Covering — Materials — (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
 - Firestop System — The fire stop system shall consist of the following:
 - A. Packing Material — Min 3-5/8 in. (92 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into the opening as a permanent form. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
 - B. Fill, Void or Cavity Material — Sealant — Min 2 in. (51 mm) thickness applied within the steel sleeve, flush with both surface of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FW-ONE MAX Intumescent Sealant
- * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



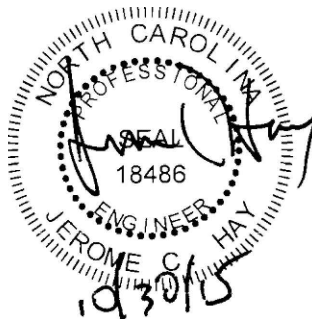
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1813 CHAPEL HILL ROAD
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1813 CHAPEL HILL ROAD
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PROJECT NO. 15241



PROGRESS DRAWING
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BUNCOMBE COUNTY SCHOOLS
MINOR RENOVATIONS TO AVERY'S CREEK
ELEMENTARY SCHOOL
ARDEN, NORTH CAROLINA

DSP NO: 110-4075 PROJECT #6782

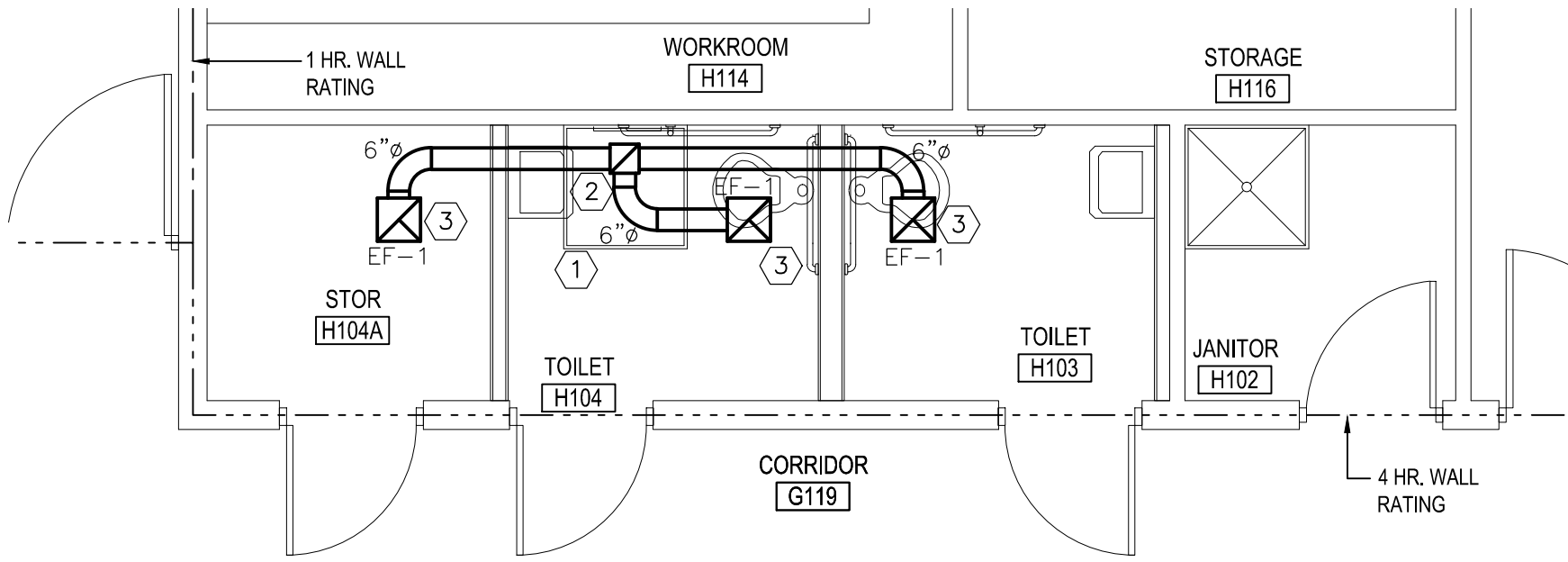
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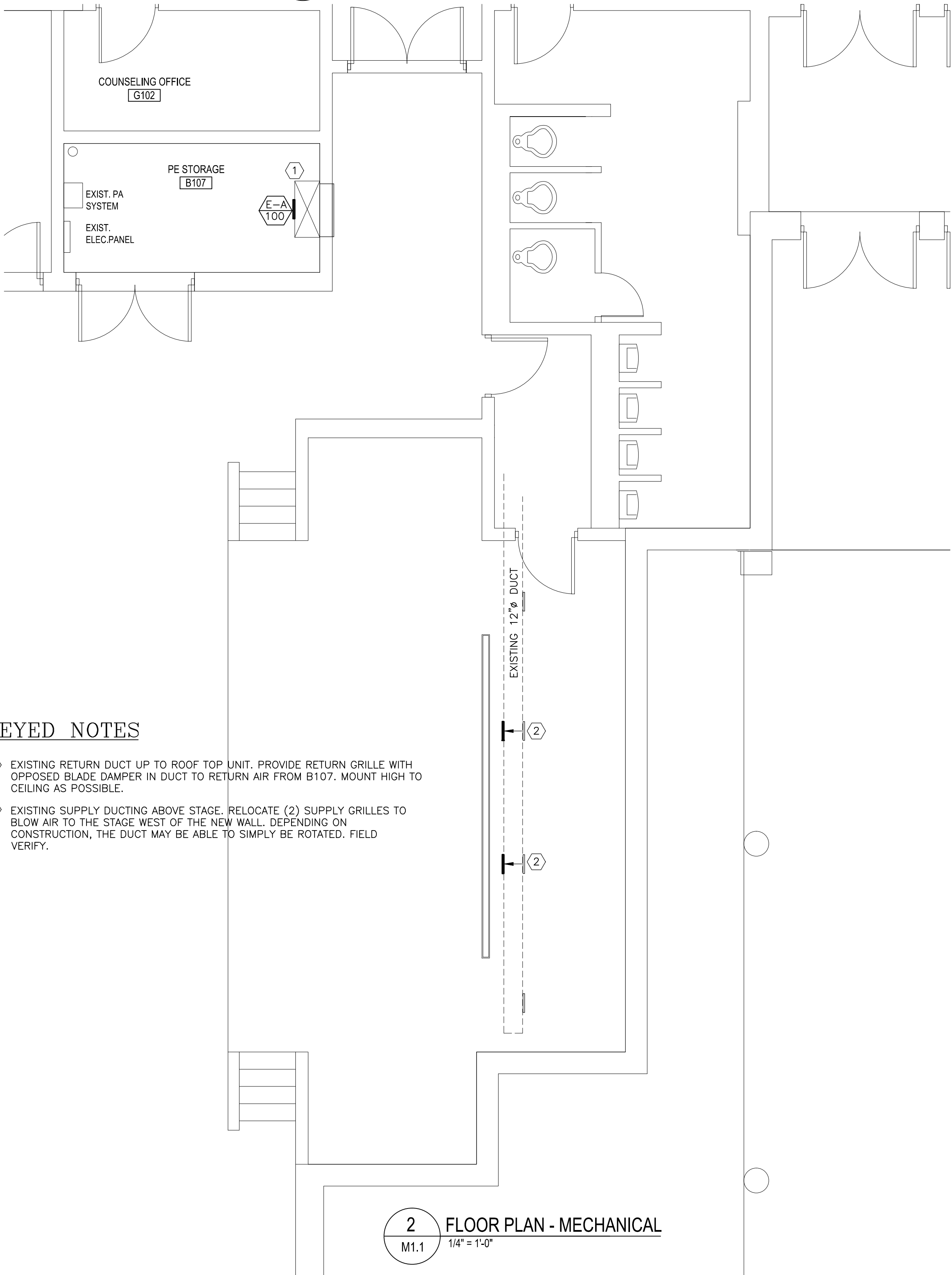
P2.1

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1 FLOOR PLAN - MECHANICAL
M1.1 1/4" = 1'-0"



KEYED NOTES

- EXISTING RETURN DUCT UP TO ROOF TOP UNIT. PROVIDE RETURN GRILLE WITH OPPOSED BLADE DAMPER IN DUCT TO RETURN AIR FROM B107. MOUNT HIGH TO CEILING AS POSSIBLE.
- EXISTING SUPPLY DUCTING ABOVE STAGE. RELOCATE (2) SUPPLY GRILLES TO BLOW AIR TO THE STAGE WEST OF THE NEW WALL. DEPENDING ON CONSTRUCTION, THE DUCT MAY BE ABLE TO SIMPLY BE ROTATED. FIELD VERIFY.

2 FLOOR PLAN - MECHANICAL
M1.1 1/4" = 1'-0"

KEYED NOTES

- EXISTING ROOF ACCESS DOOR TO REMAIN.
- PROVIDE 8x8 EXHAUST DUCT UP TO ROOF CAP. COORDINATE INSTALLATION WITH GC.
- PROVIDE EXHAUST FAN CENTERED IN 2x2 GRID. COORDINATE WITH GC.

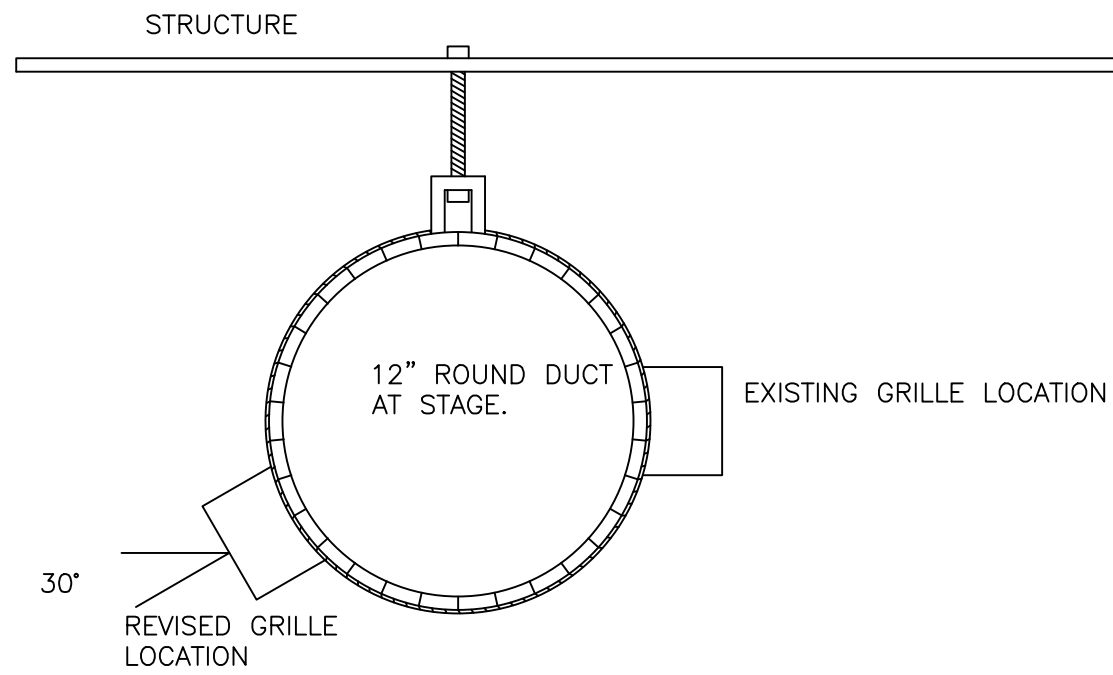
EXHAUST FAN SCHEDULE

MARK	AREA SERVED	TYPE	CFM	SP	MAX SONES	WATTS	VOLT/PHASE	DESCRIPTION	MANUFACTURER / MODEL
EF-1	TOILET ROOMS STORAGE	CEILING	75	.25	2.5	49.7	120-1	CEILING FAN	GREENHECK / SP-B90

NOTES:
1. PROVIDE GREENHECK ROOF CAP MODEL GRSR-10. PROVIDE FACTORY CURB. COORDINATE INSTALLATION WITH GC.
2. PROVIDE INTEGRAL BACKDRAFT DAMPER.
3. SWITCH WITH LIGHTS.

RETURN GRILLE SCHEDULE

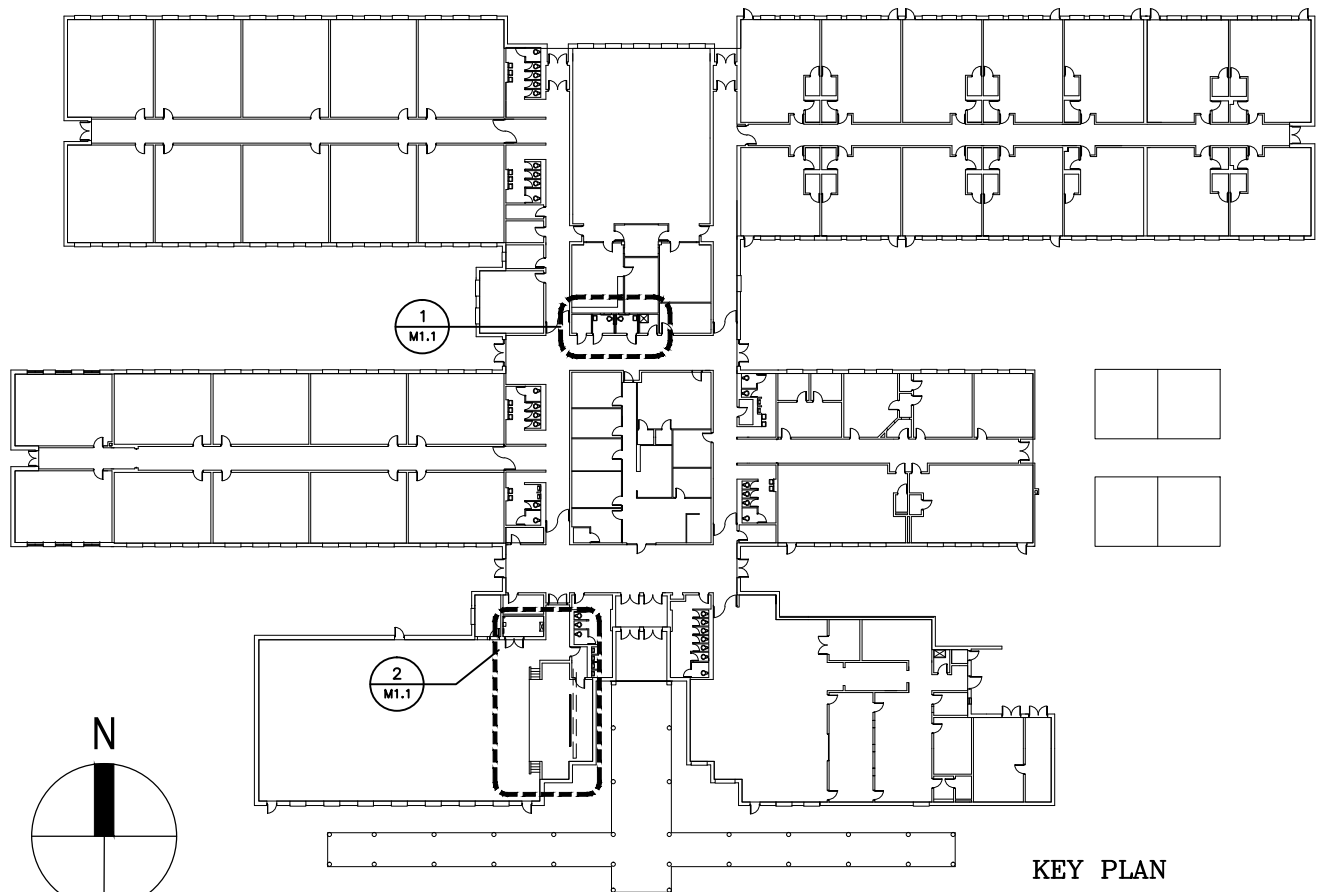
MARK	TYPE	CFM RANGE	FACE SIZE	NECK SIZE	MATERIAL	DAMPER	MANUFACTURER	MODEL	NOTES
E-A	DUCT	100	8 x 8	6 x 6	STEEL	OBD	PRICE	90	FIXED HORIZONTAL BLADES.



DUCTING AND GRILLES AT STAGE

MECHANICAL GENERAL NOTES:

- THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE APPROXIMATE LOCATION OF EQUIPMENT AND DUCTWORK. MINOR ADJUSTMENTS AND OFFSETS SHALL BE PROVIDED WHERE REQUIRED AT NO ADDITIONAL COST TO THE OWNER. COORDINATE CHANGES IN ROUTING OR OTHER WORK WITH THE ENGINEER PRIOR TO PROCEEDING.
- EXISTING AREAS WHETHER WITHIN OR WITHOUT THE "GENERAL LIMITS OF CONSTRUCTION", SHALL BE REPAIRED WHERE ANY DAMAGE HAS OCCURRED DUE TO CONSTRUCTION BY THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR SEALING ALL PENETRATIONS THROUGH ALL WALLS TO PREVENT SOUND TRANSFER. GROUT OR GYPSUM WALL BD. "MUD" MAY BE USED FOR NON RATED WALLS. PENETRATIONS THROUGH RATED WALLS SHALL BE MADE PER CODE.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE NORTH CAROLINA STATE MECHANICAL CODE.
- UNLESS OTHERWISE INDICATED MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, CORE-DRILLING AND PATCHING OF FLOORING AND WALLS AS REQUIRED TO MATCH EXISTING CONDITIONS.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING MECHANICAL RELATED WORK WITH OTHER TRADES. MECHANICAL CONTRACTOR IS CAUTIONED THAT IT IS TOTALLY HIS RESPONSIBILITY TO COORDINATE HANGERS AND SUPPORTS ETC. WITH OTHER TRADES.
- DUCT DIMENSIONS INDICATED ON THE PLANS ARE NET INSIDE DIMENSIONS. FIELD VERIFY ALL MEASUREMENTS AND DIMENSIONS BEFORE FABRICATING DUCTWORK.
- ALL SOLID DUCTWORK SHALL BE GALVANIZED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE CURRENT SMACNA DUCT CONSTRUCTION STANDARDS. DUCT SHALL BE CONSTRUCTED FOR ANTICIPATED STATIC PRESSURES. ALL JOINTS SHALL BE SEALED WITH MASTIC.
- ALL SUPPLY DUCT ELBOWS SHALL CONTAIN TURNING VANES.
- FIELD VERIFY DUCT LOCATIONS. COORDINATE DUCT SIZING AND LAYOUT WITH BUILDING STRUCTURE PRIOR TO INSTALLATION. REVISE DUCTS TO EQUIVALENT SIZES AS NEEDED.
- ALL EQUIPMENT SHALL BE LABELED WITH PERMANENT LABELS, PROPERLY AFFIXED TO THE EQUIPMENT.



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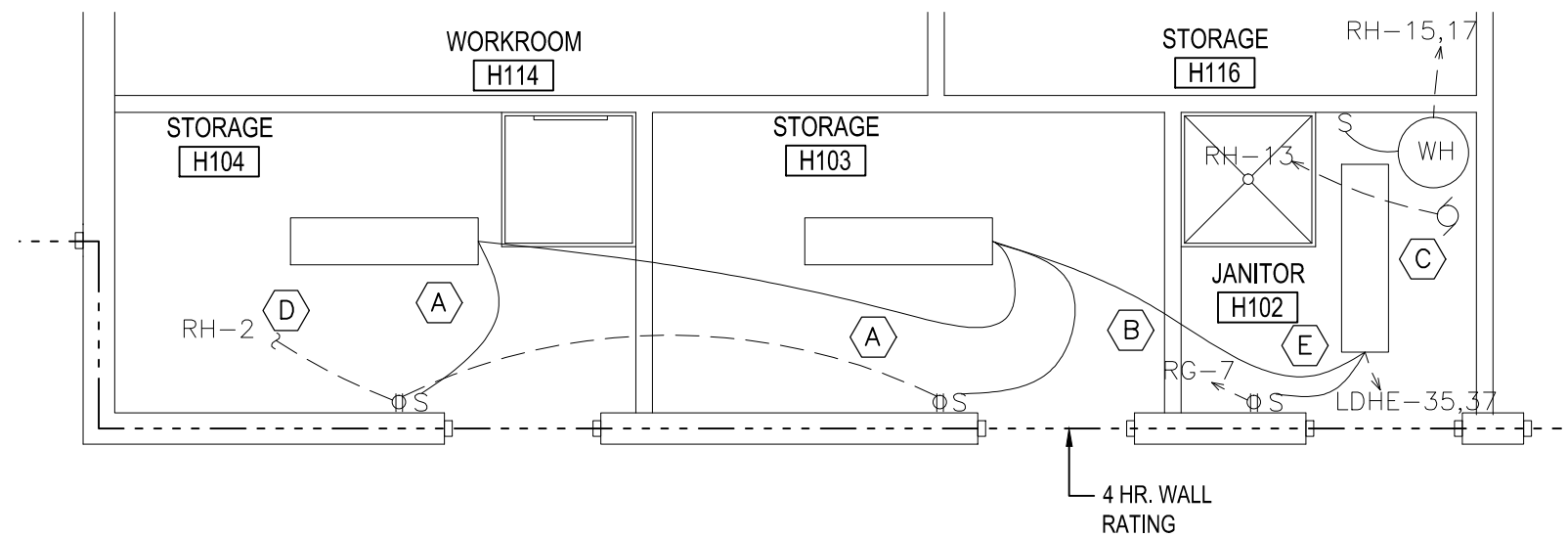
BUNCOMBE COUNTY SCHOOLS
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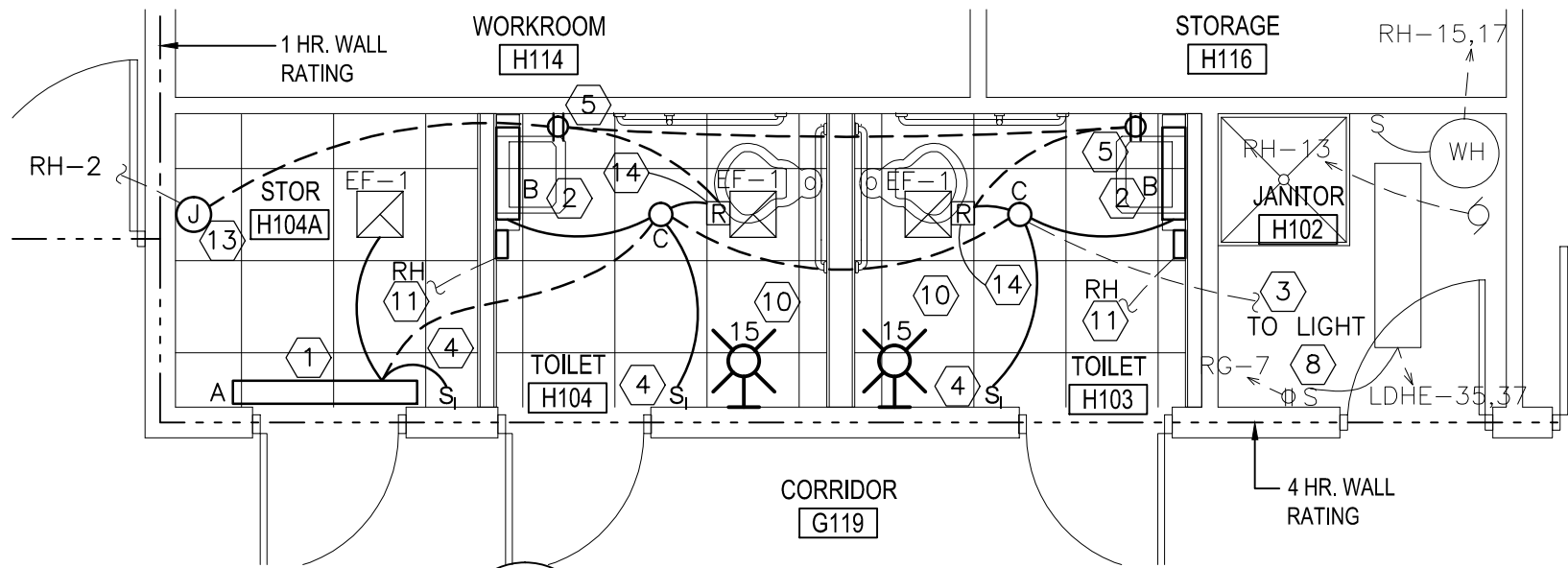
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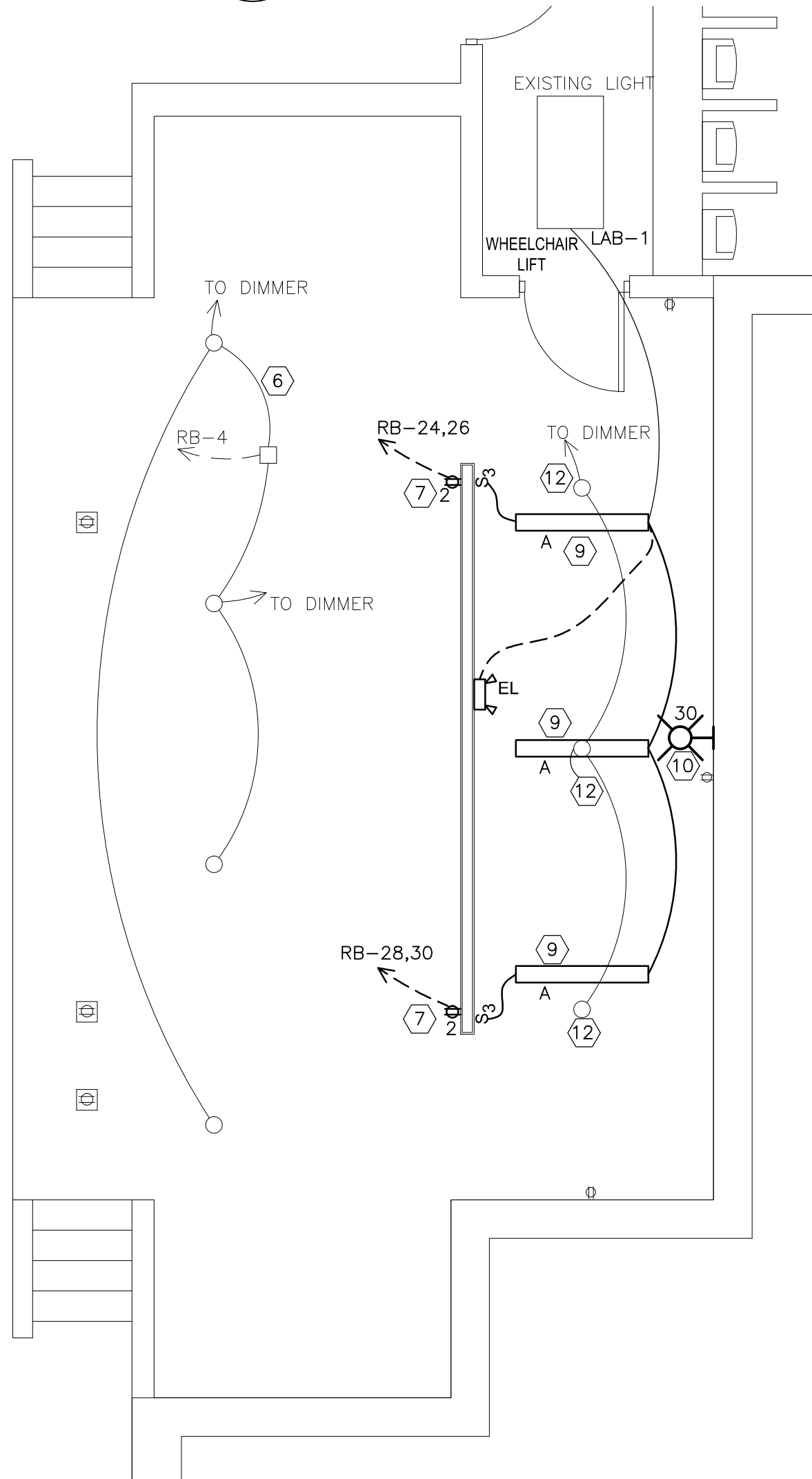
M1.1



1 EXISTING PLAN - STORAGE ROOMS (H103,H104)
E1.1 1/4" = 1'-0"



2 ELECTRICAL PLAN
E1.1 1/4" = 1'-0"



3 STAGE POWER AND LIGHTING PLAN
E1.1 1/4" = 1'-0"

KEYED DEMOLITION NOTES

- (A) REMOVE LIGHT SWITCHES AND CIRCUITING IN STORAGE ROOMS.
- (B) MAINTAIN CIRCUIT CONNECTION FOR NEW LIGHTING.
- (C) DISCONNECT WATER HEATER AND CIRCULATION PUMP POWER DURING DEMOLITION. RECONNECT WHEN RELOCATION WORK IS COMPLETED.
- (D) MAINTAIN CIRCUIT TO PANEL RH.
- (E) MAINTAIN EXISTING LIGHT, SWITCH AND CIRCUITING.

KEYED CONSTRUCTION NOTES

- 1 MOUNT 12" BELOW CEILING OR ON TOP OF DOOR FRAME.
- 2 PROVIDE LIGHT OVER SINK, MOUNT AT 6.5 TO 7' AFF. TYPICAL FOR "B" FIXTURES. PROVIDE (2) #12+12G MC CABLE TO EXISTING CIRCUIT RG-7.
- 3 REUSE EXISTING CIRCUIT LDHE-33 OR 35, 277VAC.
- 4 PROVIDE SWITCH BOXES, (2) #12+12G MC CABLE TO LIGHTS AND OCCUPANCY SENSOR SWITCHES. MOUNT BOXES AT 45" AFF. TYPICAL.
- 5 PROVIDE GFCI RECEPTACLES AT 36" AFF AND CONDUIT TO EXISTING CIRCUIT RH-2.
- 6 MAINTAIN EXISTING LIGHTING AND CONTROLS.
- 7 PROVIDE QUAD RECEPTACLES AT 18" AFF WITH COMMON NEUTRALS, (4) 20 AMP 1 POLE BREAKERS IN PANEL RB AND TIES ON HANDLES 24-26 AND 28-30.
- 8 PROVIDE GFCI RECEPTACLE AND CIRCUIT TO RH-2.
- 9 PROVIDE FIXTURES CENTERED BETWEEN BRACE FRAMING. SEE ARCHITECTS PLAN FOR FRAMING PLAN. PROVIDE (2) 3 WAY SWITCHES AT 48" AFF. ON NEW PARTITION. CIRCUIT TO ADJACENT HALL FIXTURE AND CIRCUIT LAB-1, 277VAC.
- 10 PROVIDE FIRE ALARM STROBE LIGHT COMPATIBLE WITH SIMPLEX.
- 11 PROVIDE 120 VOLT 1400 WATT CIRCUIT FOR HAND DRYER FROM PANEL RH. 3/4" C (2) #12, #12G, 20 AMP BREAKER.
- 12 REMOVE EXISTING LIGHTING AND DISCONNECT WIRING IN DIMMER BOX. PROVIDE BLANK PLATE OVER DIMMER BOX.
- 13 PROVIDE JUNCTION BOX ABOVE CEILING AS REQUIRED FOR SPLICING TO CIRCUIT RH-2.
- 14 PROVIDE 277VAC CONTROLLED RELAY IN NEMA 1 BOX WITH 120 VAC 10 AMP CONTACTS FOR EXHAUST FAN CONTROL. POWER FROM RECEPTACLE. DO NOT 'SERIES' WITH GFCI TRIP.

GENERAL NOTES (ALL ELECTRICAL SHEETS)

- 1 THIS DRAWING IS DIAGRAMMATIC AND INDICATES THE APPROXIMATE LOCATION OF DEVICES AND EQUIPMENT. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS ON SITE. MINOR ADJUSTMENTS AND OFFSETS SHALL BE PROVIDED WHERE REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- 2 PROVIDE ALL WORK IN COMPLIANCE WITH ALL STATE AND LOCAL CODES AND IN AN INDUSTRY STANDARD WORKMANLIKE MANNER.
- 3 RACEWAYS SHALL NOT BE RUN ON THE EXTERIOR OF BUILDING OR EXPOSED IN USER/PUBLIC AREAS. PVC SHALL NOT BE USED IN BUILDING ABOVE GRADE, UON.
- 4 ALL WALLS AND PENETRATIONS SHALL BE REPAIRED AND SEALED, SEE ARCHITECTURAL FOR WALL CONSTRUCTION.
- 5 ALL WIRE SIZES SHOWN ARE FOR COPPER, UNLESS OTHERWISE NOTED.
- 6 RECEPTACLE AND SWITCH COVER PLATES SHALL MATCH EXISTING DEVICES.
- 7 EC TO TEST EMERGENCY LIGHTS.
- 8 EC SHALL CONFIRM LOCATIONS OF ALL POWER PANEL AND CIRCUIT BREAKERS. LABEL ALL BREAKERS FOR DEVICES CONTROLLED AND DEVICES FOR BREAKER PANEL.
- 9 NMC ROMEX IS NOT ALLOWED. MC/AC CABLE IS ALLOWED FOR CONCEALED SPACES AND EXISTING WALLS. EMT CONDUIT SHALL BE USED IN ALL EXPOSED AREAS. CONDUITS/CIRCUITS SHALL NOT BE RUN EXPOSED EXCEPT WHEN THERE IS NO OTHER OPTION.
- 10 ALL FIRE ALARM DEVICES MAY BE CIRCUITED TO EXISTING CIRCUITS. TAPS/SPLICES SHALL USE TERMINAL BLOCKS IN JUNCTION BOX. PAINT BOX COVER RED. TEST ALL DEVICES.

LIGHTING FIXTURE SCHEDULE - AVERY'S CREEK ELEMENTARY								
TYPE	DESCRIPTION	OEM & MODEL # : BASIS OF DESIGN *	MOUNTING	VOLT	LAMPS	BALLAST /FIXT.	WATT/ FIXT.	NOTES
A	6"X4' WRAPAROUND FLUORESCENT, (2) 32 WATT T8 LAMPS, STANDARD BALLAST, SURFACE MOUNT, 277VAC.	DAY-BRITE # SWB-232-A-277-1/2-EB10I	SURFACE ON WALL OR CEILING	277	(2) 32W T8	1	60	1,2
B	ARCHITECTURAL WALL MOUNT, WHITE OPAL LENS, 2' FLUORESCENT, (2) 17 WATT T8, PROGRAM START BALLAST	OXYGEN # 2-S104-24	SURFACE ON WALL AT 6.5' AFF.	277	(2) 14W T5	1	30	1,3
C	6" ROUND LED DOWNLIGHT, 25 WATT, 3500°K WITH LENS	SPECTRUM LIGHTING INFINIUM #SGE6LEDOS-25W-35K-E1-xx-CR-AR6223OS-MW-SO	RECESSED AT 9' - 10' AFF	277	(1) 21W LED	1	25	-
EL	EMERGENCY LIGHT, (2) 6 WATT, 6 VOLT HEADS, 18 WATT BATTERY CAPACITY FOR 90 MINUTES	LIGHTALARMS # 2MCGELF3-M6-M	SURFACE ON WALL AT 8-9' AFF	277	(2) 6W MR16	1	25	-

1. FLUORESCENT LAMPS TO BE 3,500°K, 25 KHR LIFE MINIMUM, CRI-80
2. BALLASTS SHALL BE ELECTRONIC INSTANT START, CLASS A NOISE RATED, LESS THAN 10% HARMONICS, GREATER THAN 90+% POWER FACTOR.
3. BALLASTS SHALL BE PROGRAM START, CLASS A NOISE RATED, LESS THAN 10% HARMONICS, GREATER THAN 90+% POWER FACTOR.
X: FINISH/COLOR BY ARCHITECT
XX: MOUNTING BY EC
LIGHT FIXTURE MANUFACTURER AND MODEL LISTED ARE BASIS OF DESIGN, OTHER ACCEPTABLE MANUFACTURERS: GE, PHILLIPS, LITHONIA.

CLASSIFIED
C UL US

Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CANULC-S115

System No. W-J-1042

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 4 Hr	F Rating — 4 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 4 Hr
	FTH Rating — 0 Hr

WJ 1042

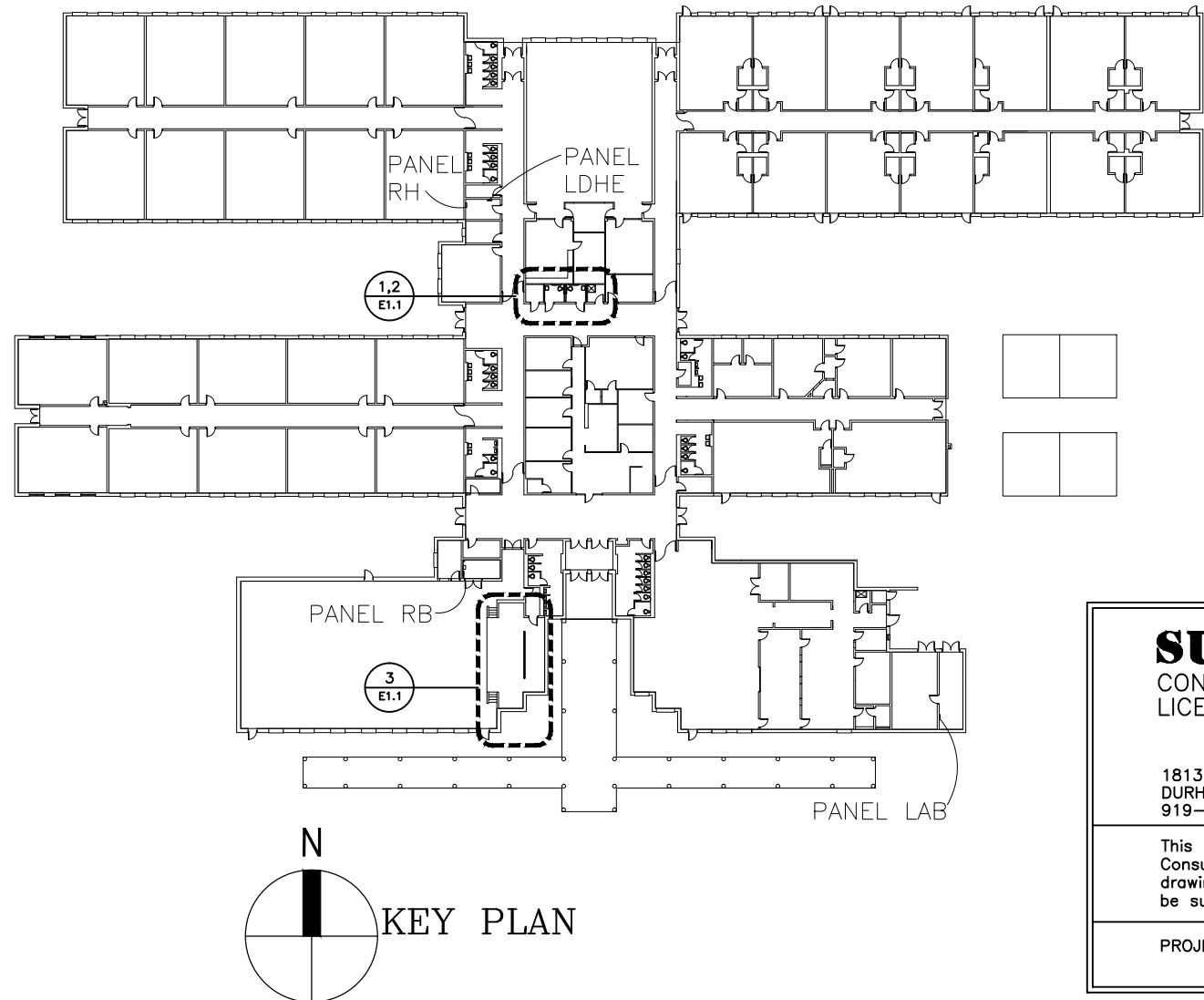
SECTION A-A

1. Wall Assembly — Min 7-5/8 in. (194 mm) thick wall assembly constructed of any UL Classified Concrete Blocks*. Min 4 hr fire rated wall. Max diam of opening is 13-5/8 in. (346 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through Penetrants — OOne metallic pipe, conduit or tubing to be installed concentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The annular space between pipe, conduit or tubing and the periphery of the opening shall be min 3/8 in. (5 mm) to 1/2 in. (13 mm) maximum. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electric metallic tubing or 6 in. (152 mm) diam steel conduit.
C. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
D. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Fill, Void or Cavity Material* — Sealant — Min 2 in. (51 mm) thickness applied within annulus flush with both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FX-ONE MAX Intumescent Sealant

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



SUD ASSOCIATES, P.A.
CONSULTING ENGINEERS
LICENSE # C-1035

1813 CHAPEL HILL ROAD
DURHAM, NORTH CAROLINA
919-483-5277

FLAT IRON BUILDING SUITE 706
20 BATTERY PARK AVENUE
ASHEVILLE, NORTH CAROLINA
828-255-4691

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PROJECT NO. 15241

PROGRESS DRAWING
 NOT FOR
 CONSTRUCTION

BUNCOMBE COUNTY SCHOOLS
 MINOR RENOVATIONS TO AVERY'S CREEK
 ELEMENTARY SCHOOL
 ARDEN, NORTH CAROLINA

DSP NO: 110-4075 PROJECT #6782

Revision

Project number
 1535
 Drawn by
 DCR
 Name
 ELECTRICAL
 Date
 10/30/15
 Sheet

E1.1

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