DOCUMENT 00 90 00 ADDENDUM

ADDENDUM:	1
DATE:	APRIL 14, 2025
PROJECT:	IOWA-GRANT SCHOOL DISTRICT LOCKER ROOM RENOVATION 462 IOWA GRANT ROAD LIVINGSTON, WISCONSIN 53554 PROJECT NO. 25007
FROM:	HSR Associates, Inc 100 Milwaukee Street La Crosse, WI 54603 (608) 784-1830
TO:	Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated APRIL 2025. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disgualification.

This Addendum consists of: 3 PAGES, 0 DOCUMENTS, 0 SECTIONS, and 16 DRAWINGS.

CHANGES TO SPECIFICATIONS:

- 1. Section 08 71 00 Finish Hardware
 - a. See the narrative, immediately below, describing revisions to the section.
 - b. Remove Hardware Group #6. Hardware for door 180 will be provided by the Owner and installed by the Contractor.

CHANGES TO DRAWINGS

- 2. Sheet A100 FIRST FLOOR 30"x42"
 - a. See the revised sheet included in this addendum. Disregard the previous version.
 - b. Reversed the orientation of door 180.
- 3. Sheet A101 PARTIAL SECOND FLOOR, ROOF PLAN 30"x42"
 - a. See the revised sheet included in this addendum. Disregard the previous version.
 - b. Added beam size information to framing in weight room 216.
 - c. Relocated mechanical equipment penetrations through roof.
- 4. Sheet A110 REFLECTED CEILING PLAN 30"x42"
 - a. See the revised sheet included in this addendum. Disregard the previous version.
 - b. Revise gypsum board soffit elevations and extents.
 - c. Remove suspended ceilings from room 170 & 185.

- 5. Sheet A400 ENLARGED PLANS, ELEVATIONS 30"x42"
 - a. See the revised sheet included in this addendum. Disregard the previous version.
 - b. Revise bench and soffit dimensions.
- 6. <u>Sheet A600 WALL TYPES, DOOR SCHEDULE 30"x42"</u>
 - a. See the revised sheet included in this addendum. Disregard the previous version.
 - b. Revised dimensions, source of supply of door 180 including frame, door & door hardware.
- 7. Sheet P001 PLUMBING COVER SHEET 30"x42"
 - a. See the revised sheet included in this addendum. Disregard the previous version.
 - b. Revise faucet in Plumbing Fixture Schedule for lavatory (L-1) to be Chicago Faucets 802-VE2805-765ABCP metering faucet.
- 8. <u>Sheet PD100 FIRST FLOOR BG PLUMBING DEMO PLANS 30"x42"</u>
 - a. See the revised sheet included in this addendum. Disregard the previous version.
 - b. Revise keyed note number for demolition instructions of existing drinking fountains.
- 9. Sheet PD101 FIRST FLOOR AG PLUMBING DEMO PLANS 30"x42"
 - a. See the revised sheet included in this addendum. Disregard the previous version.
 - b. Revise keyed note number for demolition instructions of existing drinking fountains.
- 10. Sheet MD101 FIRST FLOOR DUCTWORK DEMOLITION PLAN 30"x42"
 - a. See the revised sheet included in this addendum. Disregard the previous version.
 - b. Revise to add thermostat/switch to demolition removed fan.
- 11. Sheet M101 FIRST FLOOR DUCTWORK PLAN 30"x42"
 - a. See the revised sheet included in this addendum. Disregard the previous version.
 - b. Revise ductwork sizes and layout.
 - c. Revise grille locations for ERV-1 and ERV-2. Revise flows on ERV-2.
 - d. Relocate control panel for ERV-1 and AH-3 to first floor.
- 12. Sheet M102 SECOND FLOOR DUCTWORK PLAN 30"x42"
 - a. See the revised sheet included in this addendum. Disregard the previous version.
 - b. Revise ERV-1 vertical ductwork location down through second level floor, offset from wall.
 - c. Control panel for ERV-1 and AH-3 moved to first floor.
- 13. Sheet M601 MECHANICAL SCHEDULES 30"x42"
 - a. See the revised sheet included in this addendum. Disregard the previous version.
 - b. Revise ERV-2 supply/exhaust flow and exhaust external static pressure.
 - c. Revise CD-1 description and add note to RG-2 (Not Used).
- 14. Sheet E001 ELECTRICAL NOTES, LEGENDS & ABBREVIATIONS 30"x42"
 - a. See the revised sheet included in this addendum. Disregard the previous version.
 - b. Add bell symbol.
- 15. Sheet E111 FIRST FLOOR LIGHTING PLAN 30"x42"
 - a. See the revised sheet included in this addendum. Disregard the previous version.
 - b. Revise light layout.
 - c. Add light fixture.

16. Sheet E121 FIRST FLOOR POWER & SYSTEMS PLAN 30"x42"

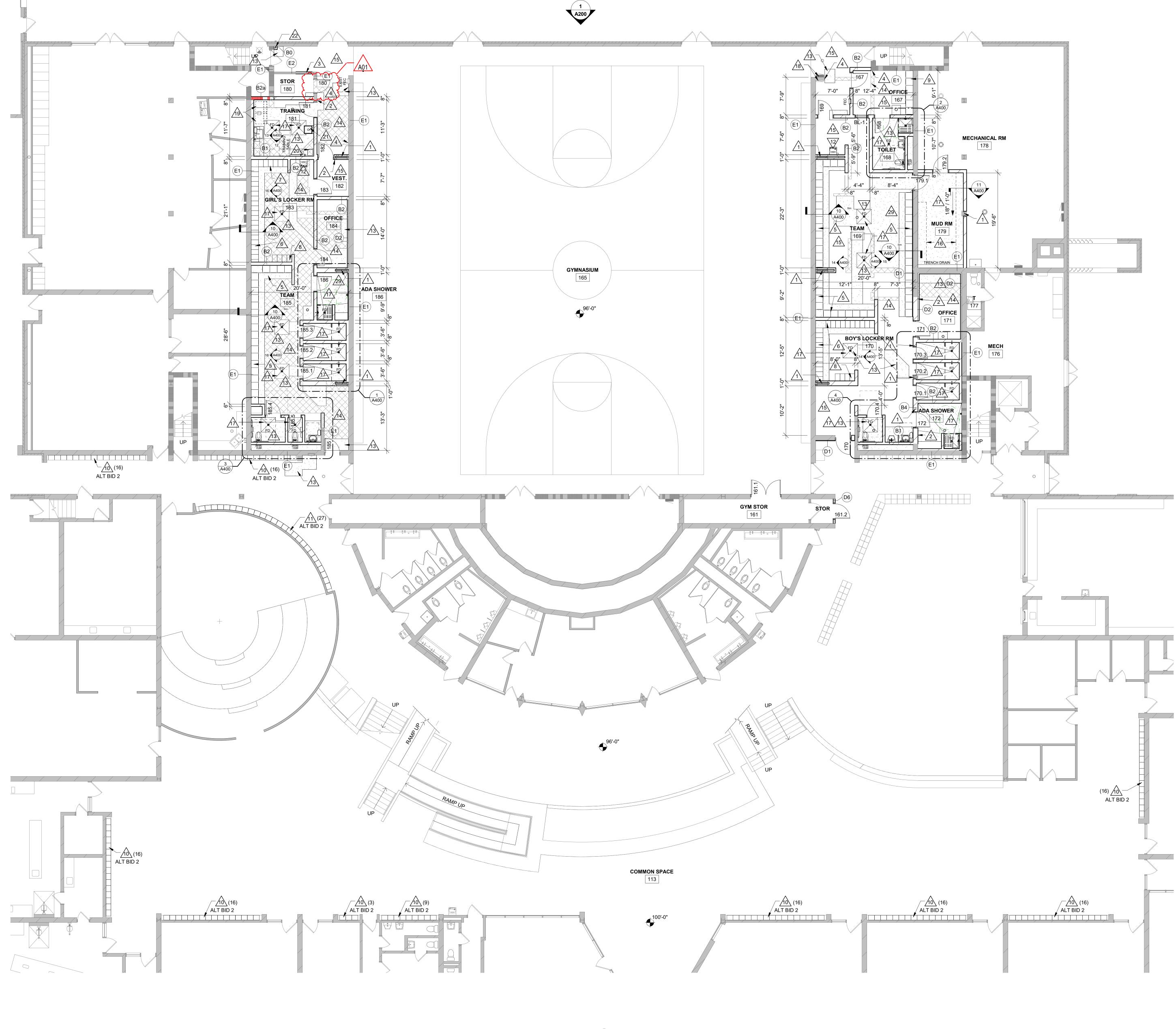
- a. See the revised sheet included in this addendum. Disregard the previous version.
- b. Revise location of control panel.
- c. Add scoreboard repeaters.

17. Sheet E212 SECOND FLOOR ELECTRICAL PLAN 30"x42"

- a. See the revised sheet included in this addendum. Disregard the previous version.
- b. Revise location of control panel.
- c. Demo / Add bell and speaker.

END OF DOCUMENT 00 90 00

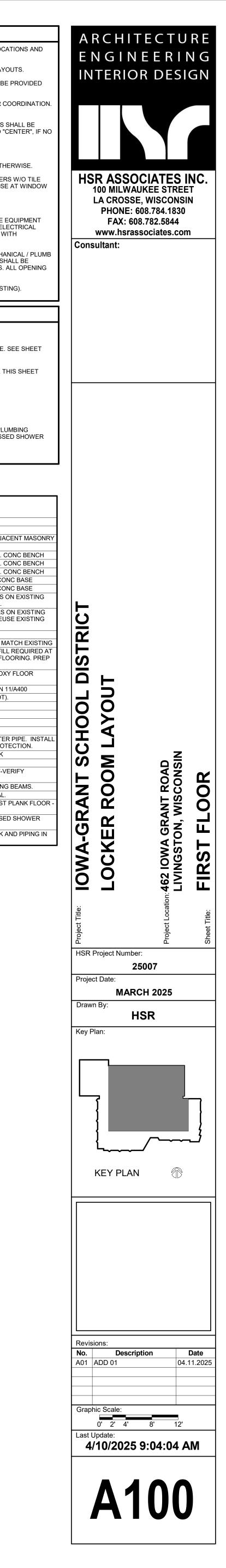
Page Intentionally Left Blank



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

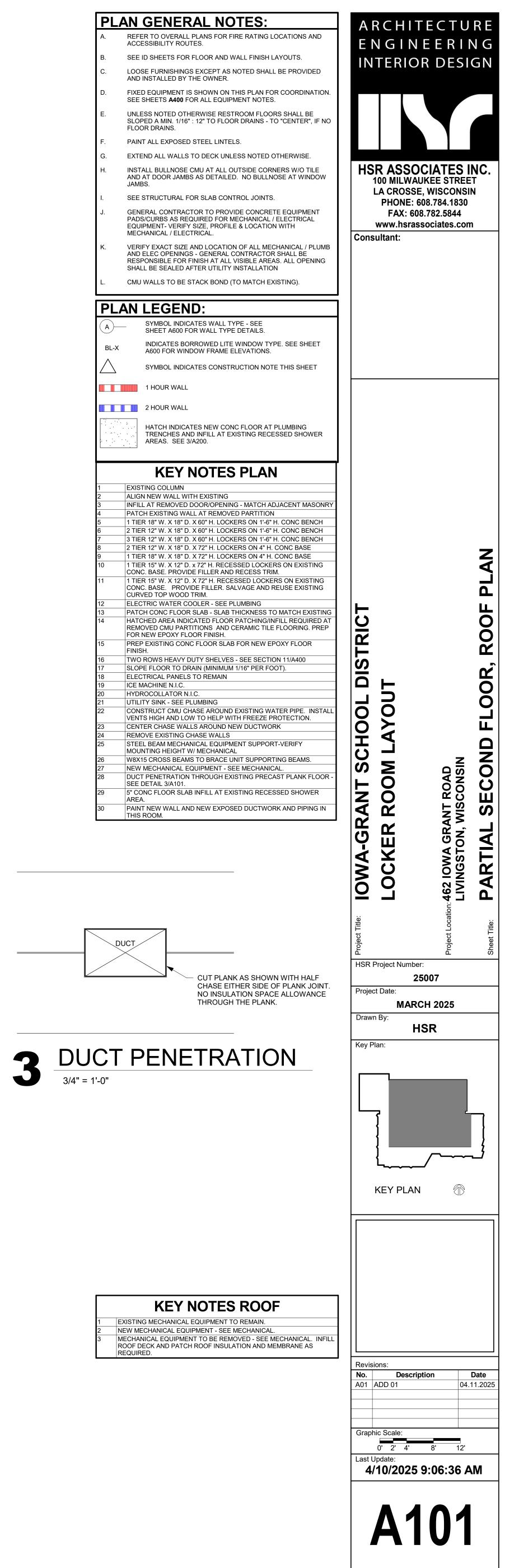
ים	AN CENEDAL NOTES							
PL/	AN GENERAL NOTES: REFER TO OVERALL PLANS FOR FIRE RATING LOCATIONS AN							
А.	ACCESSIBILITY ROUTES.							
В.	SEE ID SHEETS FOR FLOOR AND WALL FINISH LAYOUTS.							
C.	LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDE AND INSTALLED BY THE OWNER.							
D.	FIXED EQUIPMENT IS SHOWN ON THIS PLAN FOR COORDINAT SEE SHEETS A400 FOR ALL EQUIPMENT NOTES.							
E.	UNLESS NOTED OTHERWISE RESTROOM FLOORS SHALL BE SLOPED A MIN. 1/16" : 12" TO FLOOR DRAINS - TO "CENTER", II FLOOR DRAINS.							
F.	PAINT ALL EXPOSED STEEL LINTELS.							
G.	EXTEND ALL WALLS TO DECK UNLESS NOTED OTHERWISE.							
H.	INSTALL BULLNOSE CMU AT ALL OUTSIDE CORNERS W/O TILE AND AT DOOR JAMBS AS DETAILED. NO BULLNOSE AT WINDO JAMBS.							
I.	SEE STRUCTURAL FOR SLAB CONTROL JOINTS.							
J.	GENERAL CONTRACTOR TO PROVIDE CONCRETE EQUIPMEN PADS/CURBS AS REQUIRED FOR MECHANICAL / ELECTRICAL EQUIPMENT- VERIFY SIZE, PROFILE & LOCATION WITH MECHANICAL / ELECTRICAL.							
K.	VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL / PLI AND ELEC OPENINGS - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENII SHALL BE SEALED AFTER UTILITY INSTALLATION							
L.	CMU WALLS TO BE STACK BOND (TO MATCH EXISTING).							
PL/	AN LEGEND:							
(A)-	SYMBOL INDICATES WALL TYPE - SEE SHEET A600 FOR WALL TYPE DETAILS.							
BL-X	INDICATES BORROWED LITE WINDOW TYPE. SEE SHEE A600 FOR WINDOW FRAME ELEVATIONS.							
\triangle	SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET							
	1 HOUR WALL							
	2 HOUR WALL							
	HATCH INDICATES NEW CONC FLOOR AT PLUMBING TRENCHES AND INFILL AT EXISTING RECESSED SHOWE AREAS. SEE 3/A200.							

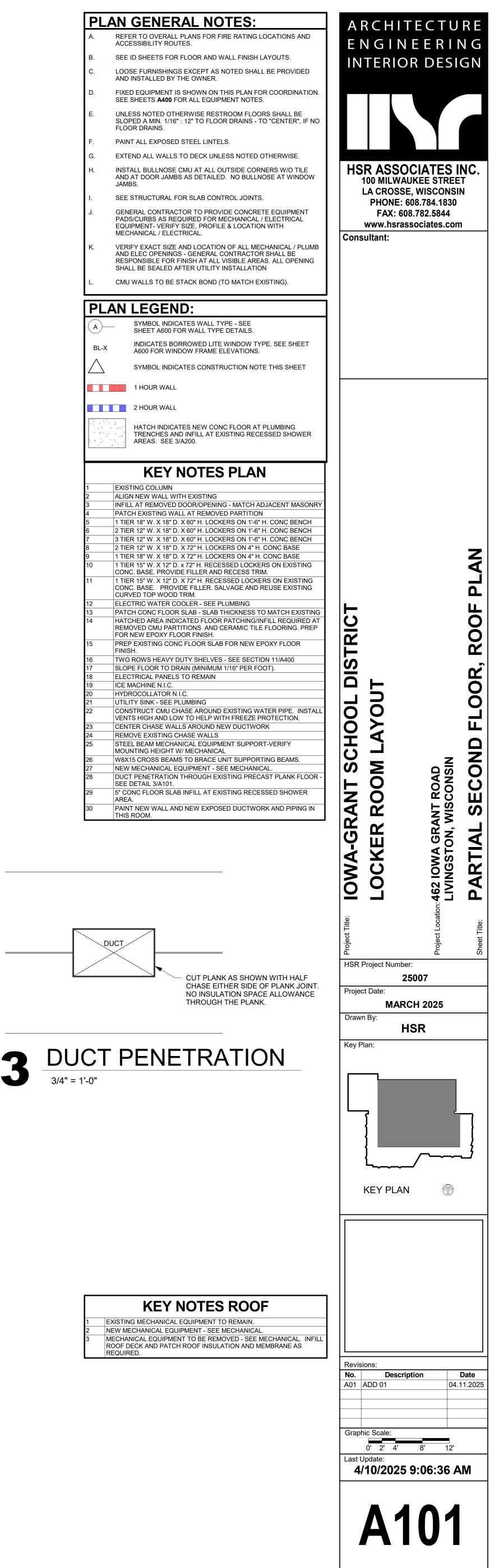
1	EXISTING COLUMN
2	ALIGN NEW WALL WITH EXISTING
3	INFILL AT REMOVED DOOR/OPENING - MATCH ADJACENT MASONRY
4	PATCH EXISTING WALL AT REMOVED PARTITION
5	1 TIER 18" W. X 18" D. X 60" H. LOCKERS ON 1'-6" H. CONC BENCH
6	2 TIER 12" W. X 18" D. X 60" H. LOCKERS ON 1'-6" H. CONC BENCH
7	3 TIER 12" W. X 18" D. X 60" H. LOCKERS ON 1'-6" H. CONC BENCH
8	2 TIER 12" W. X 18" D. X 72" H. LOCKERS ON 4" H. CONC BASE
9	1 TIER 18" W. X 18" D. X 72" H. LOCKERS ON 4" H. CONC BASE
10	1 TIER 15" W. X 12" D. X 72" H. RECESSED LOCKERS ON EXISTING CONC. BASE. PROVIDE FILLER AND RECESS TRIM.
11	1 TIER 15" W. X 12" D. X 72" H. RECESSED LOCKERS ON EXISTING CONC. BASE. PROVIDE FILLER. SALVAGE AND REUSE EXISTING CURVED TOP WOOD TRIM.
12	ELECTRIC WATER COOLER - SEE PLUMBING
13	PATCH CONC FLOOR SLAB - SLAB THICKNESS TO MATCH EXISTING
14	HATCHED AREA INDICATED FLOOR PATCHING/INFILL REQUIRED AT REMOVED CMU PARTITIONS AND CERAMIC TILE FLOORING. PREP FOR NEW EPOXY FLOOR FINISH.
15	PREP EXISTING CONC FLOOR SLAB FOR NEW EPOXY FLOOR FINISH.
16	TWO ROWS HEAVY DUTY SHELVES - SEE SECTION 11/A400
17	SLOPE FLOOR TO DRAIN (MINIMUM 1/16" PER FOOT).
18	ELECTRICAL PANELS TO REMAIN
19	ICE MACHINE N.I.C.
20	HYDROCOLLATOR N.I.C.
21	UTILITY SINK - SEE PLUMBING
22	CONSTRUCT CMU CHASE AROUND EXISTING WATER PIPE. INSTALL VENTS HIGH AND LOW TO HELP WITH FREEZE PROTECTION.
23	CENTER CHASE WALLS AROUND NEW DUCTWORK
24	REMOVE EXISTING CHASE WALLS
25	STEEL BEAM MECHANICAL EQUIPMENT SUPPORT-VERIFY MOUNTING HEIGHT W/ MECHANICAL
26	W8X15 CROSS BEAMS TO BRACE UNIT SUPPORTING BEAMS.
27	NEW MECHANICAL EQUIPMENT - SEE MECHANICAL.
28	DUCT PENETRATION THROUGH EXISTING PRECAST PLANK FLOOR - SEE DETAIL 3/A101.
29	5" CONC FLOOR SLAB INFILL AT EXISTING RECESSED SHOWER AREA.
30	PAINT NEW WALL AND NEW EXPOSED DUCTWORK AND PIPING IN THIS ROOM.

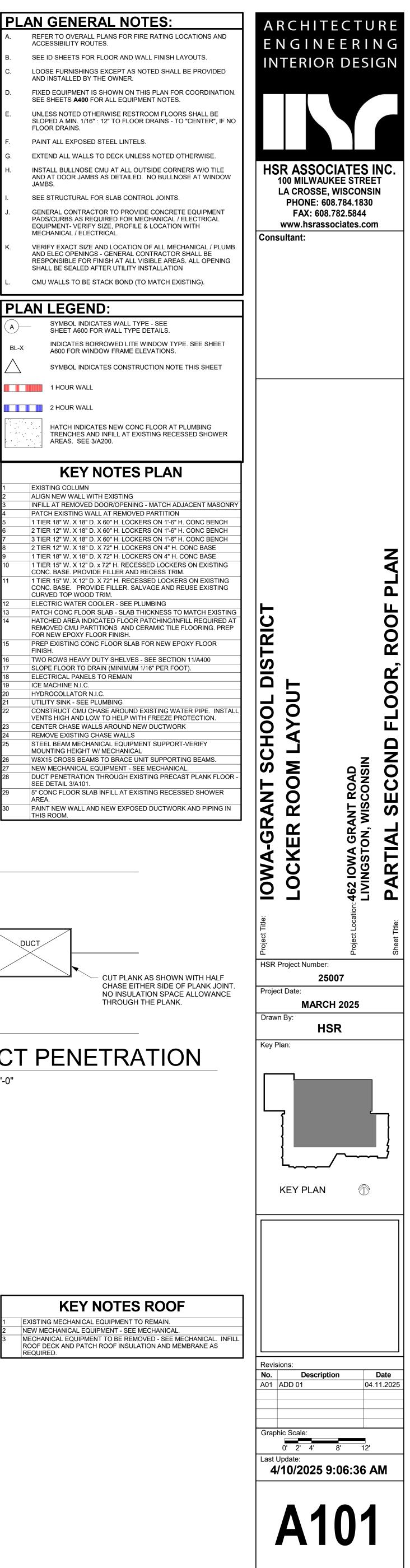


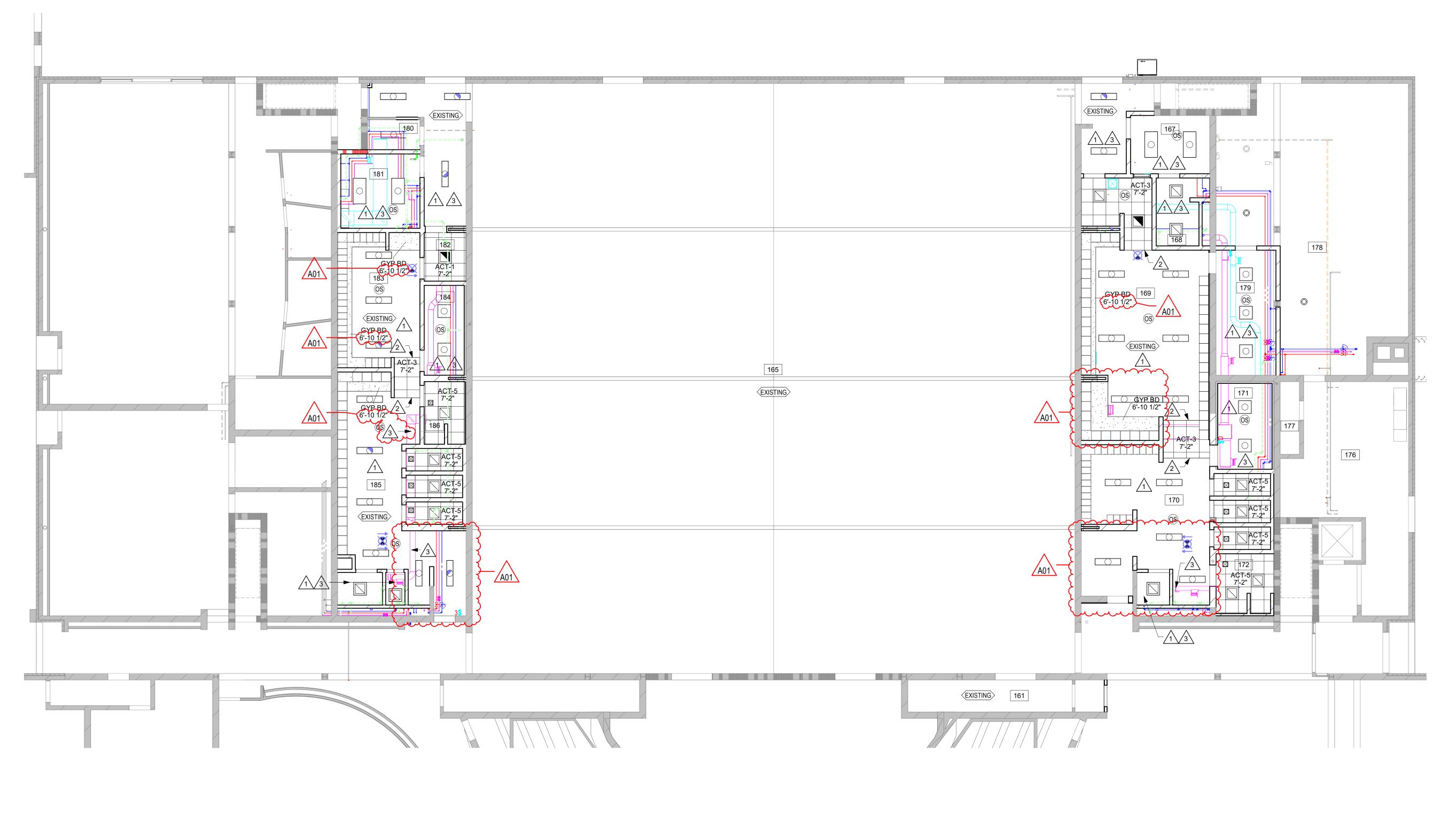


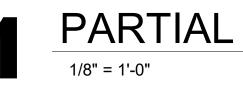
<u>PL/</u>	AN GENERAL NOTES:
A.	REFER TO OVERALL PLANS FOR FIRE RATING LOCA ACCESSIBILITY ROUTES.
В.	SEE ID SHEETS FOR FLOOR AND WALL FINISH LAYO
C.	LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE AND INSTALLED BY THE OWNER.
D.	FIXED EQUIPMENT IS SHOWN ON THIS PLAN FOR CO SEE SHEETS A400 FOR ALL EQUIPMENT NOTES.
E.	UNLESS NOTED OTHERWISE RESTROOM FLOORS S
	SLOPED A MIN. 1/16" : 12" TO FLOOR DRAINS - TO "CI FLOOR DRAINS.
F.	PAINT ALL EXPOSED STEEL LINTELS.
G.	EXTEND ALL WALLS TO DECK UNLESS NOTED OTHE
H.	INSTALL BULLNOSE CMU AT ALL OUTSIDE CORNERS AND AT DOOR JAMBS AS DETAILED. NO BULLNOSE JAMBS.
I.	SEE STRUCTURAL FOR SLAB CONTROL JOINTS.
J.	GENERAL CONTRACTOR TO PROVIDE CONCRETE EC PADS/CURBS AS REQUIRED FOR MECHANICAL / ELE EQUIPMENT- VERIFY SIZE, PROFILE & LOCATION WIT MECHANICAL / ELECTRICAL.
K.	VERIFY EXACT SIZE AND LOCATION OF ALL MECHAN AND ELEC OPENINGS - GENERAL CONTRACTOR SHA RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. A SHALL BE SEALED AFTER UTILITY INSTALLATION
L.	CMU WALLS TO BE STACK BOND (TO MATCH EXISTI
PL/	AN LEGEND:
(A)	_ SYMBOL INDICATES WALL TYPE - SEE SHEET A600 FOR WALL TYPE DETAILS.
BL-X	INDICATES BORROWED LITE WINDOW TYPE. S A600 FOR WINDOW FRAME ELEVATIONS.
\triangle	SYMBOL INDICATES CONSTRUCTION NOTE TH
	1 HOUR WALL
	2 HOUR WALL
	HATCH INDICATES NEW CONC FLOOR AT PLUI TRENCHES AND INFILL AT EXISTING RECESSE AREAS. SEE 3/A200.
	KEY NOTES PLAN
1	EXISTING COLUMN
2 3	ALIGN NEW WALL WITH EXISTING INFILL AT REMOVED DOOR/OPENING - MATCH ADJAC
4	PATCH EXISTING WALL AT REMOVED PARTITION
5 6	1 TIER 18" W. X 18" D. X 60" H. LOCKERS ON 1'-6" H. CO 2 TIER 12" W. X 18" D. X 60" H. LOCKERS ON 1'-6" H. CO
7	3 TIER 12" W. X 18" D. X 60" H. LOCKERS ON 1'-6" H. CO
8	2 TIER 12" W. X 18" D. X 72" H. LOCKERS ON 4" H. CON
9 10	1 TIER 18" W. X 18" D. X 72" H. LOCKERS ON 4" H. CON 1 TIER 15" W. X 12" D. x 72" H. RECESSED LOCKERS O
	CONC. BASE. PROVIDE FILLER AND RECESS TRIM.
11	1 TIER 15" W. X 12" D. X 72" H. RECESSED LOCKERS C CONC. BASE. PROVIDE FILLER. SALVAGE AND REUS
12	CURVED TOP WOOD TRIM. ELECTRIC WATER COOLER - SEE PLUMBING
13	PATCH CONC FLOOR SLAB - SLAB THICKNESS TO MA
14	HATCHED AREA INDICATED FLOOR PATCHING/INFILL REMOVED CMU PARTITIONS AND CERAMIC TILE FLO FOR NEW EPOXY FLOOR FINISH.
15	PREP EXISTING CONC FLOOR SLAB FOR NEW EPOXY FINISH.
16	TWO ROWS HEAVY DUTY SHELVES - SEE SECTION 1
17 18	SLOPE FLOOR TO DRAIN (MINIMUM 1/16" PER FOOT). ELECTRICAL PANELS TO REMAIN
19	ICE MACHINE N.I.C.
20	HYDROCOLLATOR N.I.C.
21 22	UTILITY SINK - SEE PLUMBING CONSTRUCT CMU CHASE AROUND EXISTING WATER
	VENTS HIGH AND LOW TO HELP WITH FREEZE PROTE
23 24	CENTER CHASE WALLS AROUND NEW DUCTWORK REMOVE EXISTING CHASE WALLS
25	STEEL BEAM MECHANICAL EQUIPMENT SUPPORT-VE MOUNTING HEIGHT W/ MECHANICAL
26	W8X15 CROSS BEAMS TO BRACE UNIT SUPPORTING
27	NEW MECHANICAL EQUIPMENT - SEE MECHANICAL.
28 29	DUCT PENETRATION THROUGH EXISTING PRECAST F SEE DETAIL 3/A101.
	5" CONC FLOOR SLAB INFILL AT EXISTING RECESSED











PARTIAL REFLECTED CEILING PLAN 1/8" = 1'-0"

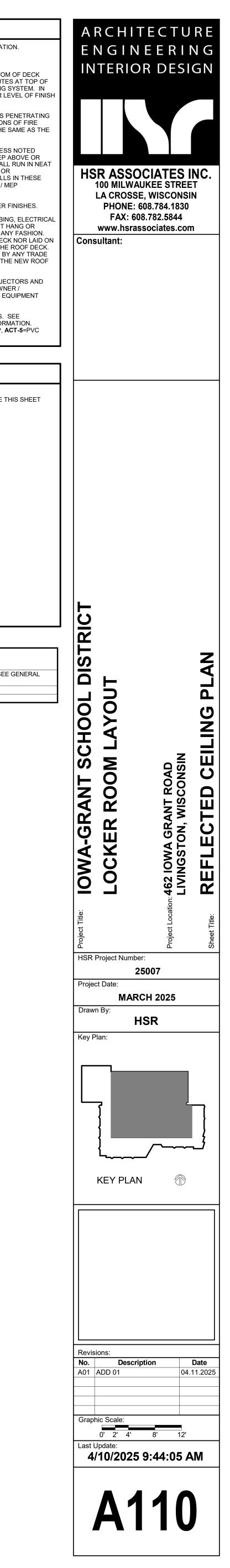
	RC	P GENERAL NOTES:
Γ	Α.	SEE MECHANICAL FOR CEILING GRILLE INFORMATIO
I	В.	SEE ELECTRICAL FOR LIGHTING TYPES.
	C.	ALL INTERIOR PARTITIONS TO EXTEND TO BOTTOM UNLESS OTHERWISE NOTED. CLOSE DECK FLUTES WALL WITH NEOPRENE FILLER OR FIRESTOPPING S GYP/STUD PARTITIONS SEE SPECIFICATION FOR LEY ABOVE FINISHED CEILING.
	D.	ALL REMAINING ANNULAR SPACE AROUND ITEMS PE WALLS SHALL BE NEATLY SEALED. PENETRATIONS RATED WALLS SHALL BE FIRESTOPPED WITH THE S WALL.
	E.	WHERE NO CEILING/EXPOSED STRUCTURE UNLESS OTHERWISE, CONTRACTOR SHALL KEEP ALL MEP A EVEN WITH THE LEVEL OF THE LIGHTS. MEP SHALL ORDERLY APPEARANCE GENERALLY PARALLEL OR PERPENDICULAR TO FINISHED STRUCTURE. WALLS ROOMS TO RUN TO DECK AND ALL STRUCTURE / ME COMPONENTS ARE TO BE PAINTED.
I	F.	REFER TO INTERIOR DESIGN SHEETS FOR OTHER F
	G.	HANGERS AND SUPPORTS: MECHANICAL, PLUMBING AND OTHER CABLING CONTRACTORS SHALL NOT HA SUPPORT THE WORK FROM THE ROOF DECK IN ANY CONDUIT RUNS SHALL NOT BE LAID ON ROOF DECK THE STRUCTURAL SUPPORT THAT SUPPORTS THE F NO FASTENERS SHALL PENETRATE ROOF DECK BY OTHER THAN THE ROOFING CONTRACTOR FOR THE SYSTEM.
	H.	CONFIRM EXACT LOCATION OF OVERHEAD PROJEC OTHER CEILING MOUNTED EQUIPMENT WITH OWNE MANUFACTURER PRIOR TO INSTALLATION. SEE EQU PLANS FOR ADDITIONAL EQUIPMENT.
	I.	CEILING TYPES INSTALLED AS NOTED ON PLANS. S SPECIFICATIONS FOR ADDITIONAL SYSTEM INFORM ACT-1 =SQUARE EDGE, ACT-3 =VINYL FACED GYP, AC

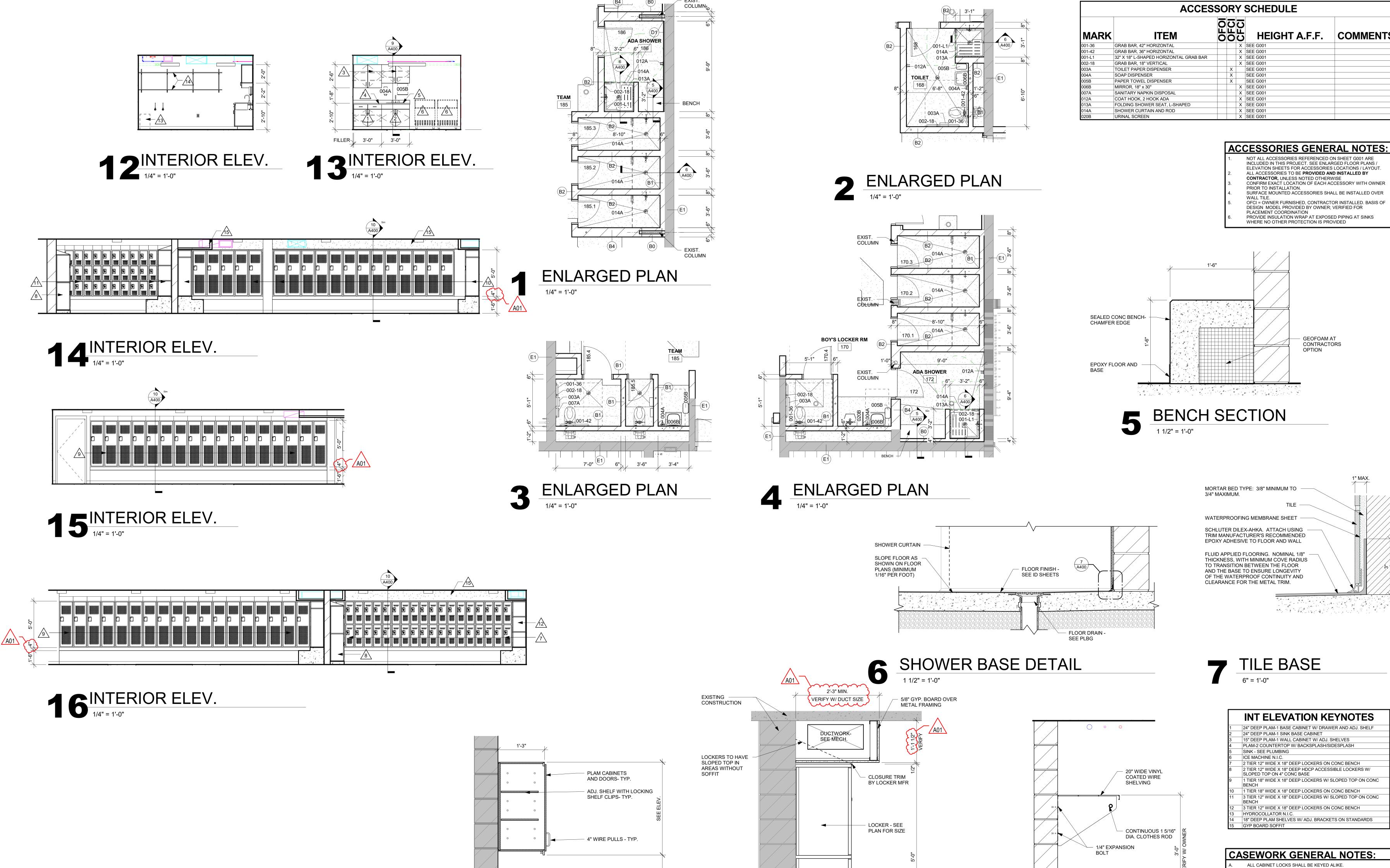
RCP LEGEND:

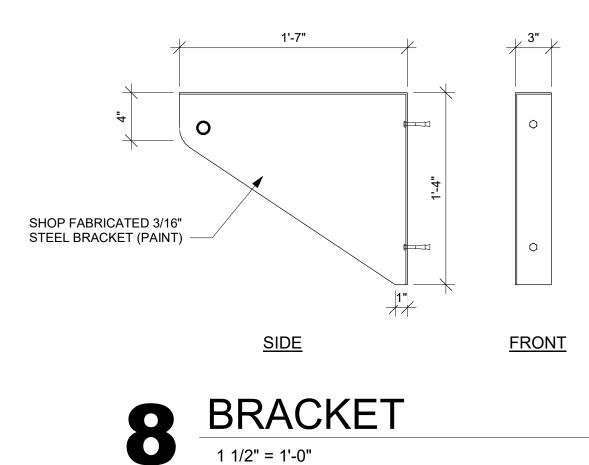
SYMBOL INDICATES CONSTRUCTION NOTE TH
LIGHT FIXTURE - SEE ELECTRICAL
LIGHT FIXTURE - SEE ELECTRICAL
LIGHT FIXTURE - SEE ELECTRICAL
EXIT LIGHT FIXTURE - SEE ELECTRICAL
EXIT LIGHT FIXTURE - SEE ELECTRICAL
LIGHT FIXTURE - SEE ELECTRICAL
OCCUPANCY SENSOR - SEE ELECTRICAL
SUPPLY - SEE MECHANICAL
RETURN - SEE MECHANICAL
EXHAUST - SEE MECHANICAL

KEY NOTES RCP

NO CEILING - EXPOSED STRUCTURE (PAINT PNT-1). SEE GENERAL NOTE E.
 ACOUSTIC TILE 10" EXTENDED PERIMETER TRIM
 PAINT EXPOSED DUCTWORK AND PIPING.



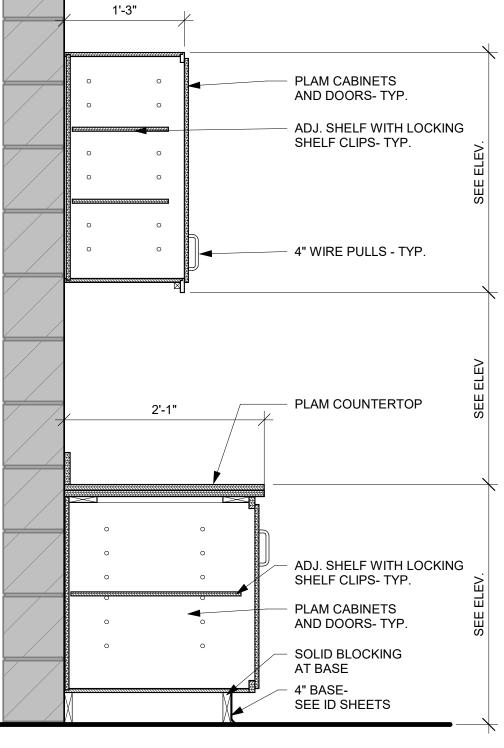


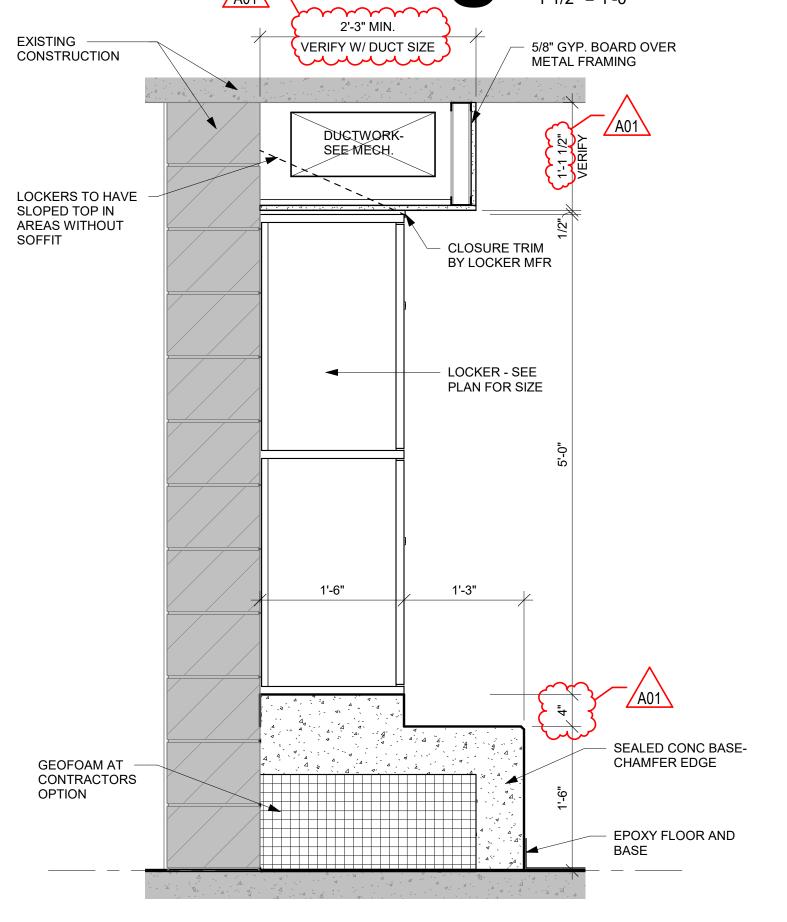


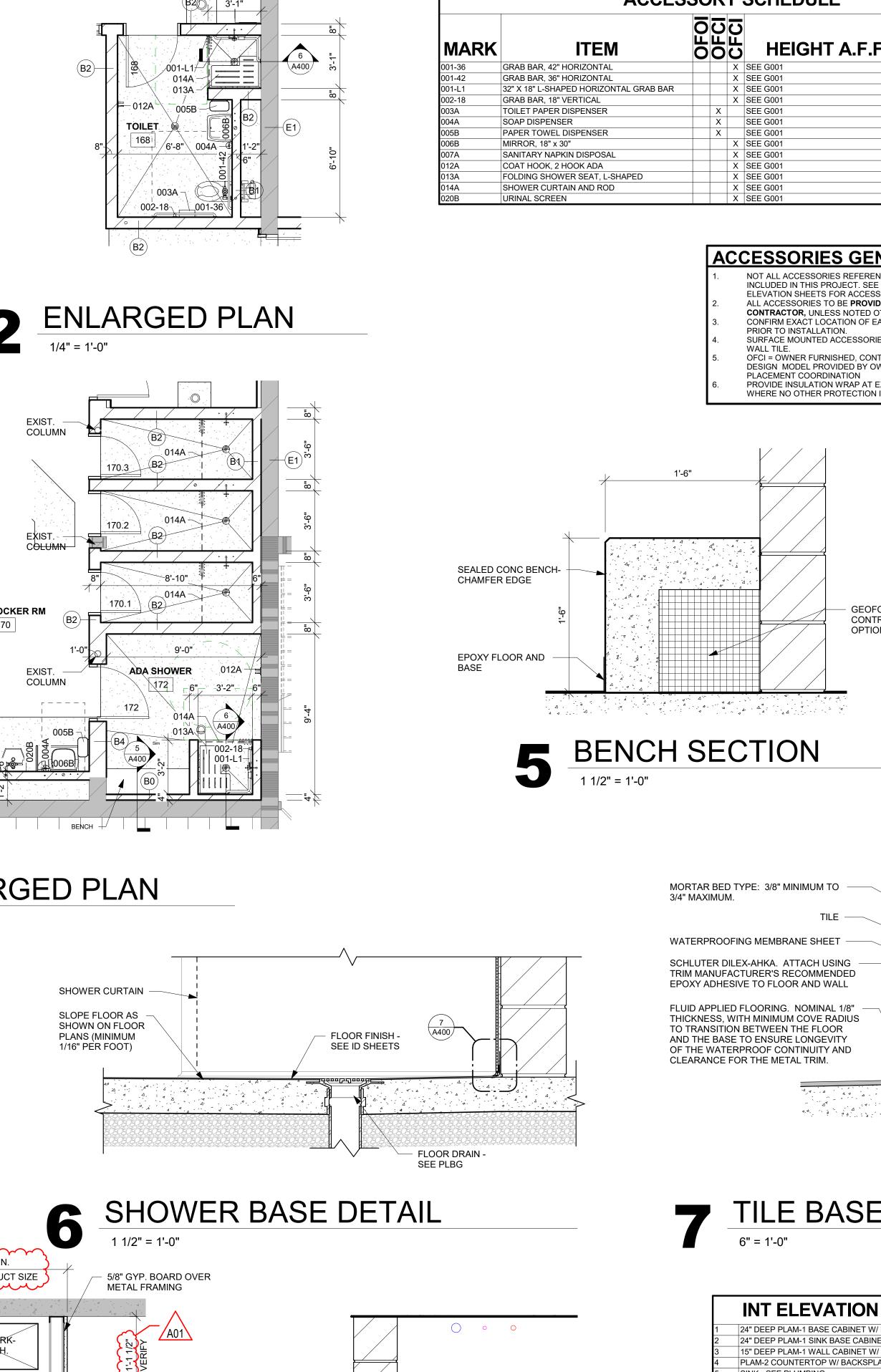


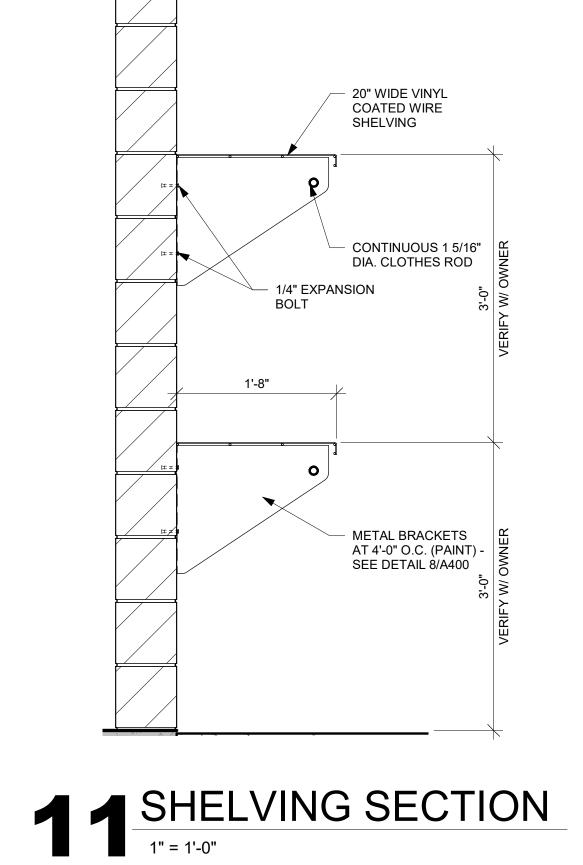




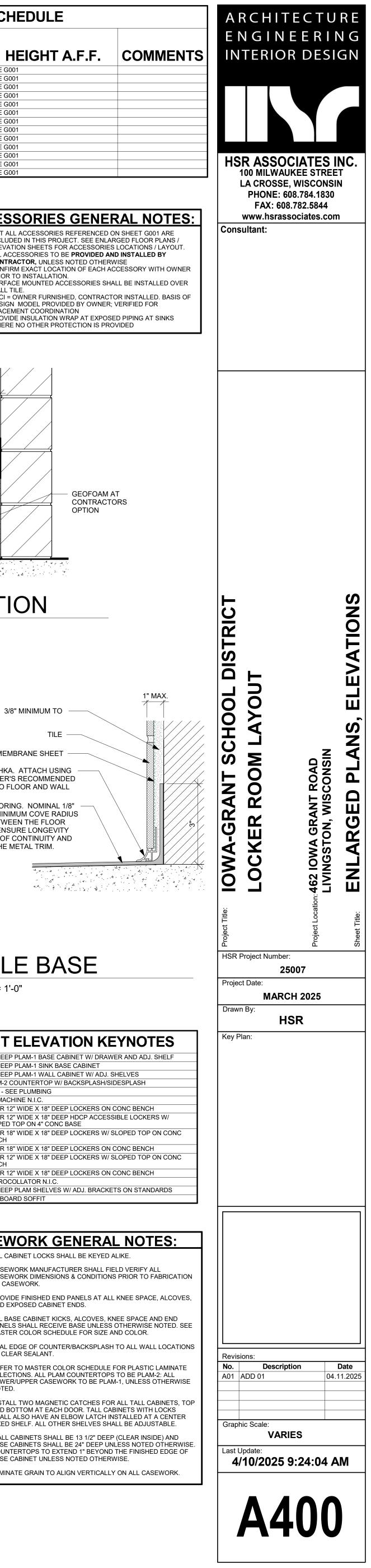


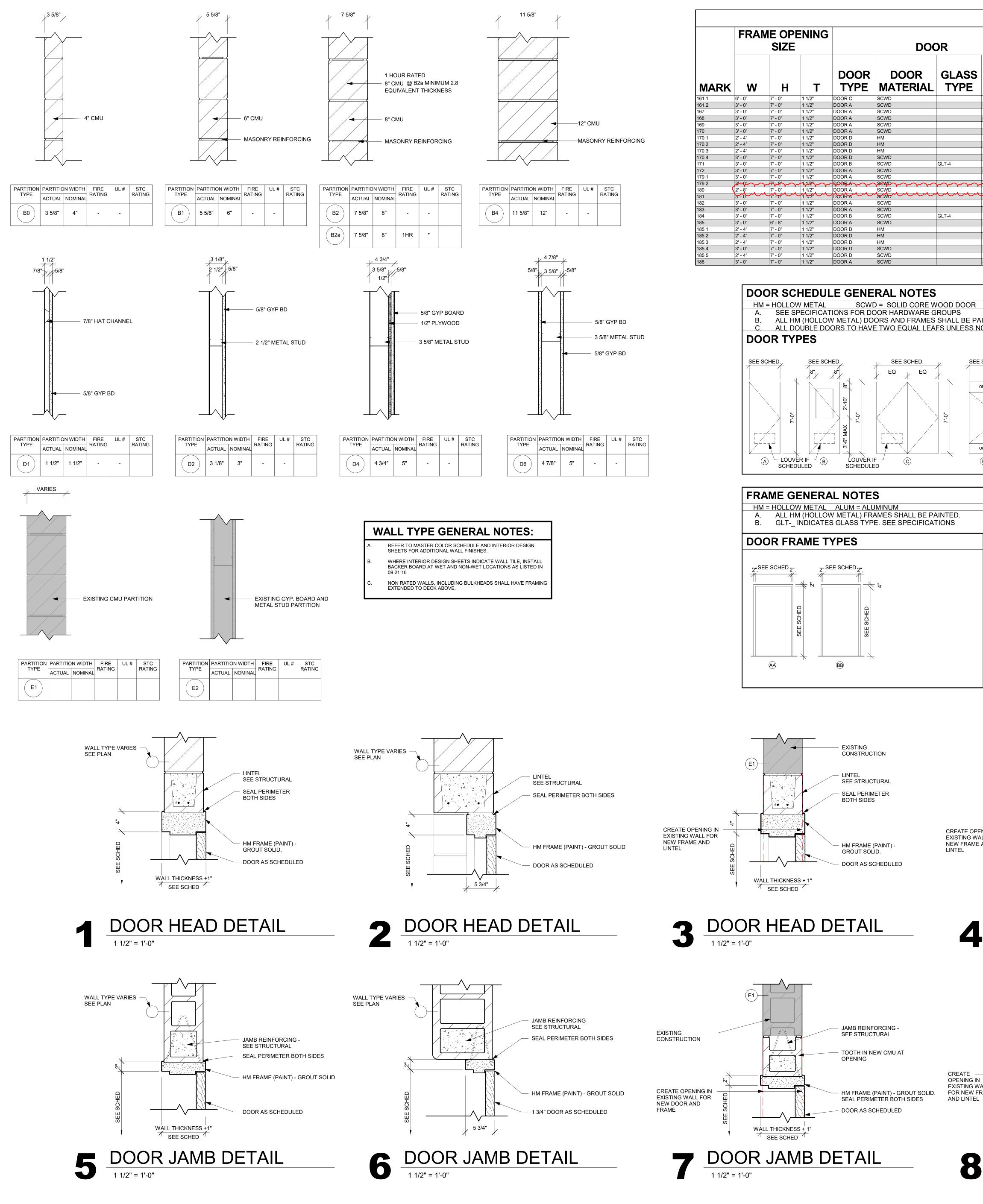






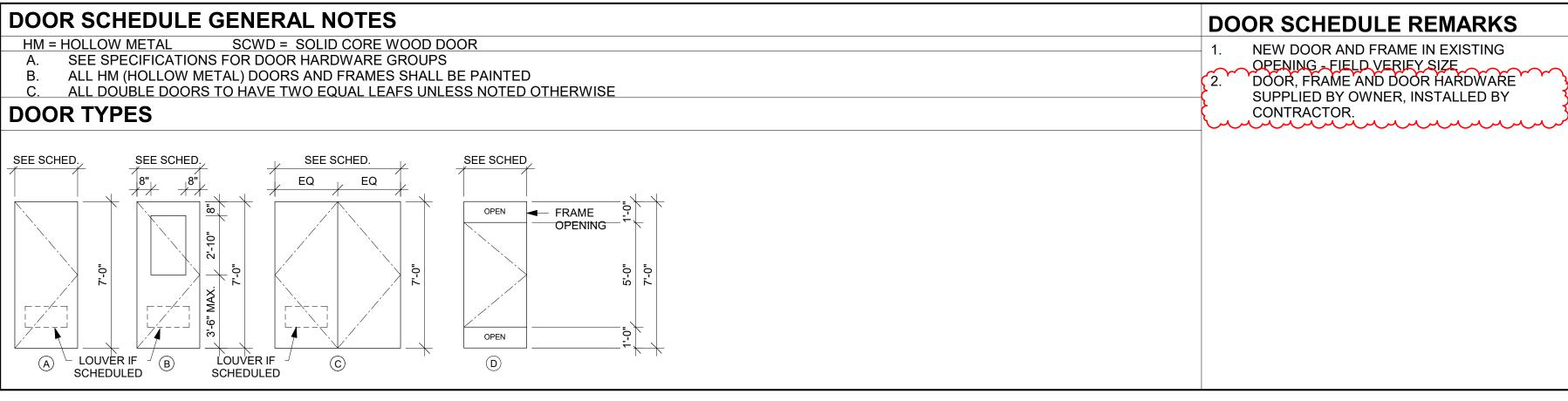
	BENGH
10	1 TIER 18" WIDE X 18" DEEP LOCKERS ON CONC BENCH
11	3 TIER 12" WIDE X 18" DEEP LOCKERS W/ SLOPED TOP ON BENCH
12	3 TIER 12" WIDE X 18" DEEP LOCKERS ON CONC BENCH
13	HYDROCOLLATOR N.I.C.
14	18" DEEP PLAM SHELVES W/ ADJ. BRACKETS ON STANDAR
15	GYP BOARD SOFFIT
	SEWORK GENERAL NOTE
Α.	ALL CABINET LOCKS SHALL BE KEYED ALIKE.
В.	CASEWORK MANUFACTURER SHALL FIELD VERIFY ALL CASEWORK DIMENSIONS & CONDITIONS PRIOR TO FAE OF CASEWORK.
C.	PROVIDE FINISHED END PANELS AT ALL KNEE SPACE, AND EXPOSED CABINET ENDS.
D.	ALL BASE CABINET KICKS, ALCOVES, KNEE SPACE AND PANELS SHALL RECEIVE BASE UNLESS OTHERWISE NO MASTER COLOR SCHEDULE FOR SIZE AND COLOR.
E.	SEAL EDGE OF COUNTER/BACKSPLASH TO ALL WALL L W/ CLEAR SEALANT.
F.	REFER TO MASTER COLOR SCHEDULE FOR PLASTIC L/ SELECTIONS. ALL PLAM COUNTERTOPS TO BE PLAM-2. LOWER/UPPER CASEWORK TO BE PLAM-1, UNLESS OT NOTED.
G.	INSTALL TWO MAGNETIC CATCHES FOR ALL TALL CAB AND BOTTOM AT EACH DOOR. TALL CABINETS WITH LO SHALL ALSO HAVE AN ELBOW LATCH INSTALLED AT A FIXED SHELF. ALL OTHER SHELVES SHALL BE ADJUST/
H.	WALL CABINETS SHALL BE 13 1/2" DEEP (CLEAR INSIDE BASE CABINETS SHALL BE 24" DEEP UNLESS NOTED O COUNTERTOPS TO EXTEND 1" BEYOND THE FINISHED BASE CABINET UNLESS NOTED OTHERWISE.
I.	LAMINATE GRAIN TO ALIGN VERTICALLY ON ALL CASE



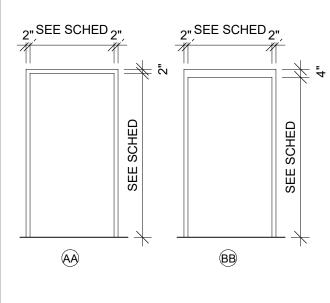


								DO	OR SCHE	DULE							
	FRAME OPENING SIZE DOOR								FRAME								
							U-CUT						DETAILS				
MARK	w	н	т	DOOR TYPE	DOOR MATERIAL	GLASS TYPE	OR LOUVER	FRAME TYPE	FRAME DEPTH	FRAME MATERIAL	GLASS TYPE	HEAD	JAMB	SILL	FIRE LABEL	HDWR GROUP	REMAR
161.1	6' - 0"	7' - 0"	1 1/2"	DOOR C	SCWD			FRAME BB	5 3/4"	НМ		4/A600	8/A600			1	
161.2	3' - 0"	7' - 0"	1 1/2"	DOOR A	SCWD			FRAME AA	5 7/8"	HM		9/A600				5	
167	3' - 0"	7' - 0"	1 1/2"	DOOR A	SCWD			FRAME BB	8 5/8"	HM		1/A600	5/A600			2	
168	3' - 0"	7' - 0"	1 1/2"	DOOR A	SCWD		8X8 GRILLE	FRAME BB	8 5/8"	HM		1/A600	5/A600			3	
169	3' - 0"	7' - 0"	1 1/2"	DOOR A	SCWD			FRAME BB	8 5/8"	HM		1/A600	5/A600			4	
170	3' - 0"	7' - 0"	1 1/2"	DOOR A	SCWD			FRAME BB	5 3/4"	HM		10/A600	E/A000			4	
170.1 170.2	2' - 4" 2' - 4"	7' - 0" 7' - 0"	1 1/2"	DOOR D DOOR D	HM HM			FRAME AA FRAME AA	8 5/8" 8 5/8"	HM HM		1/A600 SIM. 1/A600 SIM.	5/A600 5/A600			3	
170.2	2 - 4	7' - 0"	1 1/2"	DOOR D	HM			FRAME AA	8 5/8"	HM		1/A600 SIM.	5/A600			3	
170.4	3' - 0"	7' - 0"	1 1/2"	DOOR D	SCWD			FRAME AA	6 5/8"	HM		1/A600 SIM.	5/A600			3	
170.4	3' - 0"	7' - 0"	1 1/2"	DOOR B	SCWD	GLT-4		FRAME BB	5 3/4"	HM		2/A600	6/A600			2	
172	3' - 0"	7' - 0"	1 1/2"	DOOR A	SCWD		8X8 GRILLE	FRAME BB	5 3/4"	HM		2/A600	6/A600			3	
179.1	3' - 0"	7' - 0"	1 1/2"	DOOR A	SCWD			FRAME BB	5 3/4"	НМ		10/A600	0,7,6000			2	
179.2				DOOR A	SEWD			FRAMEBB	85/8					\sim		5	
180	2' - 8"	7' - 0"	1 1/2"	DOOR A	SCWD			FRAME BB	VERIEY	НМ		3/A600 SIM. 1/A600	7/A600 SIM.				2
181	3-0	1 June	1 1/2"	DOOR A	SCWD	h		FRAME BB	8 5/8"	AM	h	1/A800	7/A600 SIM. 5/A600	min	mu	2 Million	h
182	3' - 0"	7' - 0"	1 1/2"	DOOR A	SCWD			FRAME BB	5 3/4"	НМ		1/A600	5/A600			4	
183	3' - 0"	7' - 0"	1 1/2"	DOOR A	SCWD			FRAME BB	8 5/8"	HM		1/A600	5/A600			4	
184	3' - 0"	7' - 0"	1 1/2"	DOOR B	SCWD	GLT-4		FRAME BB	8 5/8"	HM		1/A600	5/A600			2	
185	3' - 0"	6' - 8"	1 1/2"	DOOR A	SCWD			FRAME AA	5 3/4"	HM						7	1
185.1	2' - 4"	7' - 0"	1 1/2"	DOOR D	HM			FRAME AA	8 5/8"	HM		1/A600 SIM.	5/A600			3	
185.2	2' - 4"	7' - 0"	1 1/2"	DOOR D	HM			FRAME AA	8 5/8"	HM		1/A600 SIM.	5/A600			3	
185.3	2' - 4"	7' - 0"	1 1/2"	DOOR D	HM			FRAME AA	8 5/8"	HM		1/A600 SIM.	5/A600			3	
185.4	3' - 0"	7' - 0"	1 1/2"	DOOR D	SCWD			FRAME AA	6 5/8"	HM		1/A600	5/A600			3	
185.5	2' - 4"	7' - 0"	1 1/2"	DOOR D	SCWD			FRAME AA	6 5/8"	HM		1/A600	5/A600			3	
186	3' - 0"	7' - 0"	1 1/2"	DOOR A	SCWD		8X8 GRILLE	FRAME BB	8 5/8"	HM		1/A600	5/A600			3	

A. SEE SPECIFICATIONS FOR DOOR HARDWARE GROUPS

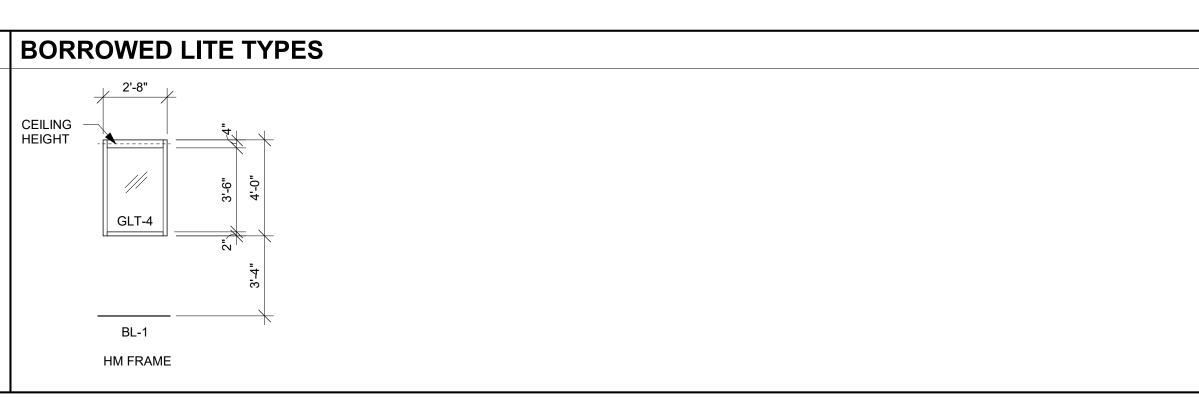


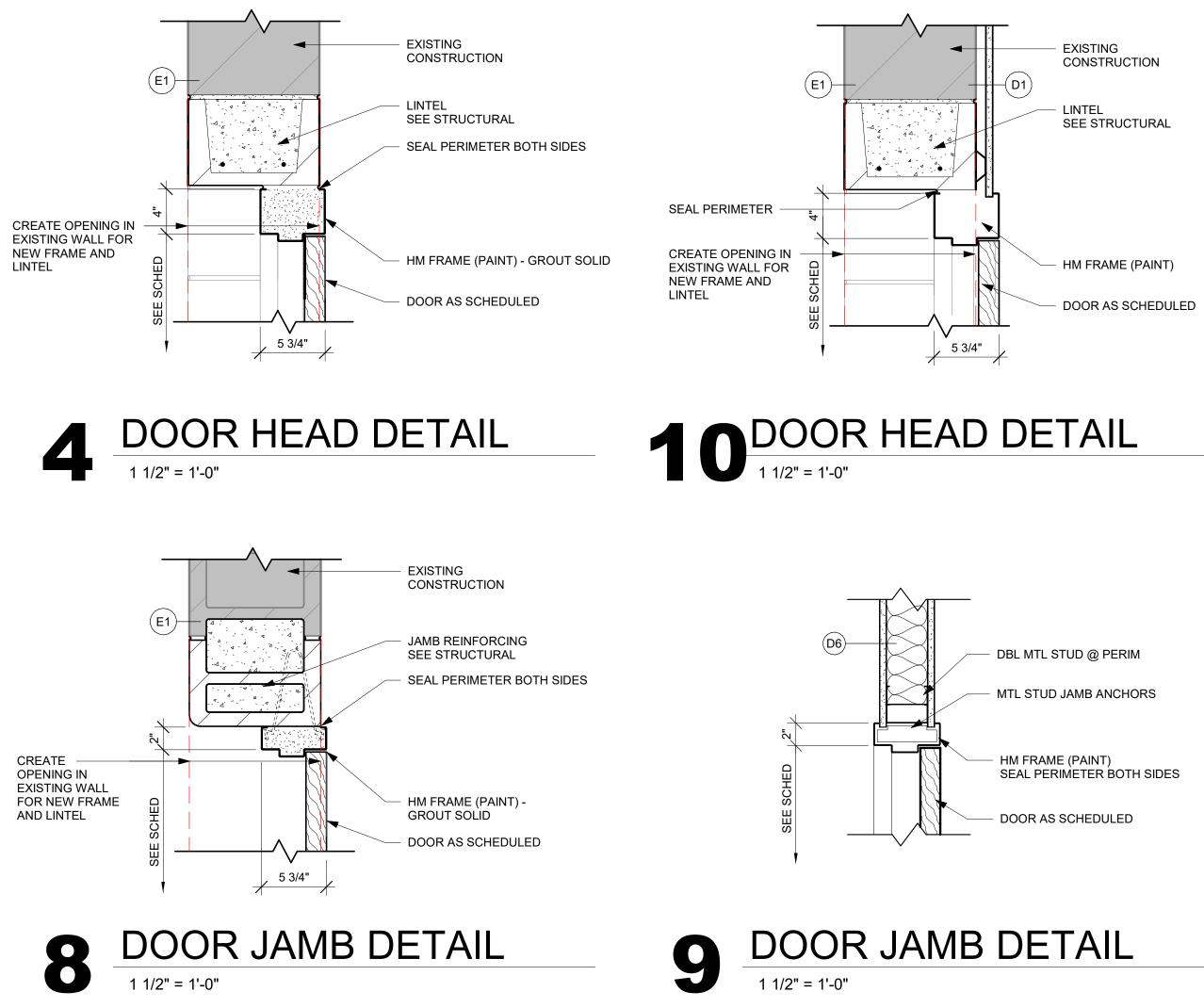
A. ALL HM (HOLLOW METAL) FRAMES SHALL BE PAINTED

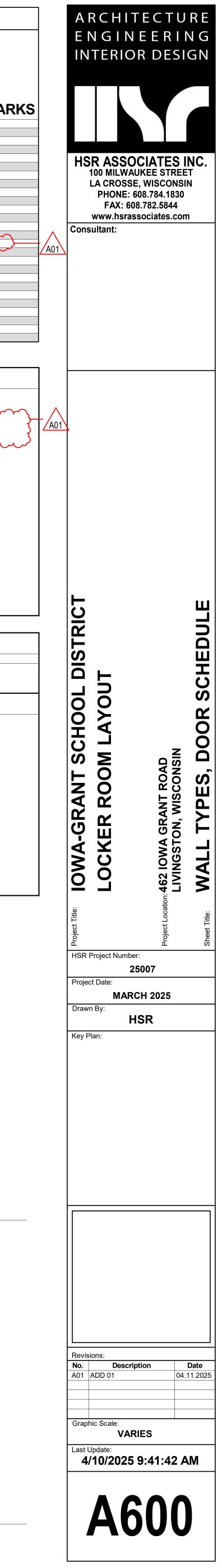


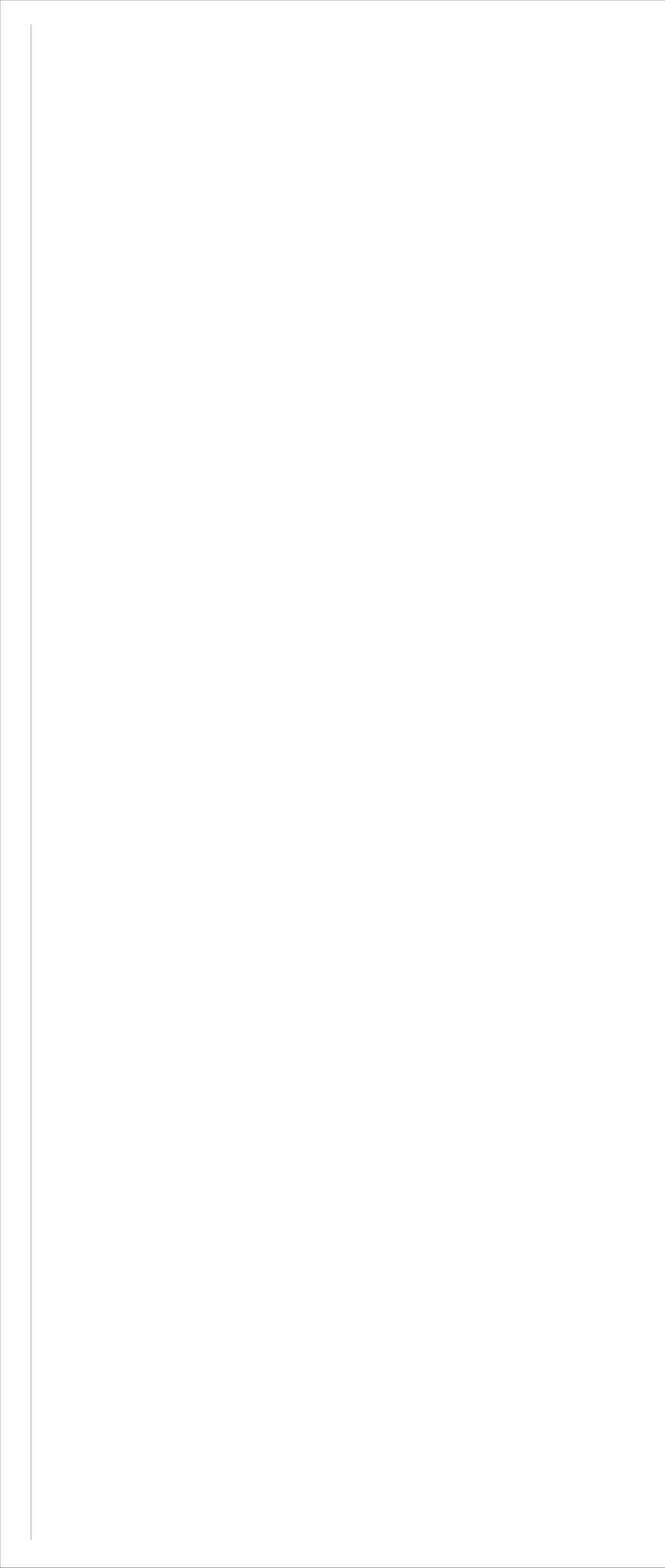


DOOD SCHEDIII E



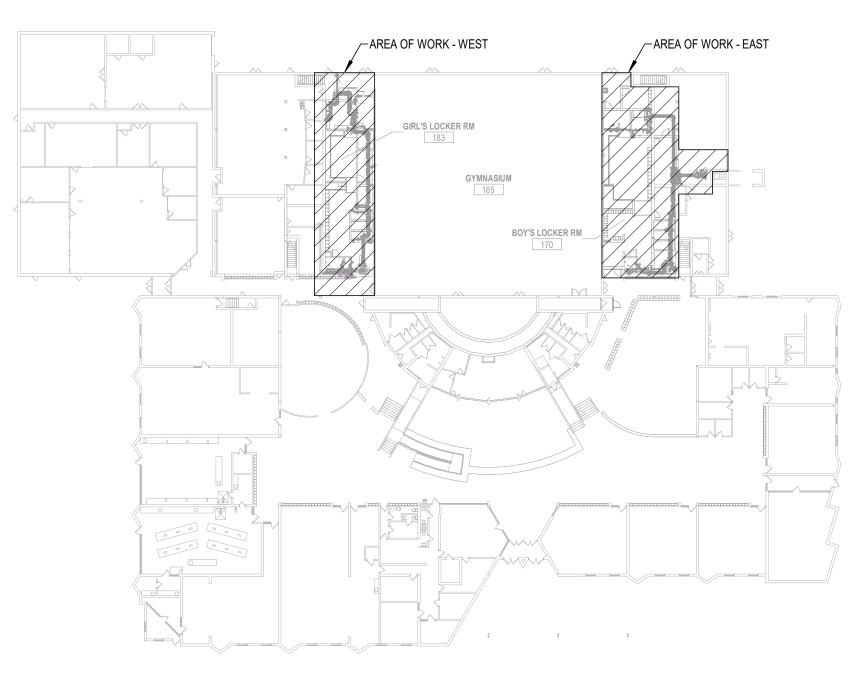






	PLUMBING FIXTURE SCHEDULE									
	ROUGH-IN SCHEDULE									
MARK	FIXTURE	MANUFACTURER	MODEL	MOUNT	COLD	НОТ	WASTE	VENT	FITTINGS AND REMARKS	
S-1	SINGLE COMPARTMENT SINK	ELKAY	LRADQ191865-3	COUNTER	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE CHICAGO 786-E29XKABCP FAUCET. PROVIDE MCGUIRE 8912 P-TRAP, 1151AWC OFFSET W/ 151 STRAINER, LAWLER 570 MIXING VALVE SET TO 110°F W/ WATTS 6 CHECK STOPS & LEBV2165CCSS SUPPLY STOPS PROVIDE HOT WATER CIRCULATION RER WISOONSWPLUMBING GODE.	
L-1	WALL MOUNT LAVATORY W/ MANUAL FAUCET	KOHLER	K-2032	WALL	1/2"	1/2"	1 1/2"	1/19"	PROVIDE CHICAGO FAUCETS 802-VE2805-765ABCP METERING FAUCET, MCGUIRE 8902 P-TRAP, MCGUIRE 155A STRAINER, MCGUIRE H2165CCLK STOPS, AND TRUEBRO LAV GUARD. PROVIDE LAWLER 570 MIXING VALVE SET TO 110°F W/ WATTS 6 CHECK STOPS. PROVIDE HOT WATER CIRCULATION PER WISCONSIN PLUMBING CODE.	
WC-1	ADA WALL MOUNT FLUSHOMETER WATER CLOSET - MANUAL	KOHLER	K-84325-0	WALL	1 1/2"	-	4"	-	PROVIDE BEMIS 1655SSCT SEAT COVER, SLOAN ROYAL TH-1.6 FLUSHOMETER W/ ZURN CARRIER. ADA INSTALLATION. SEE ARCHITECTURAL ELEVATION FOR MOUNTING HEIGHT. PROVIDE HAMMER ARRESTOR ON BRANCH PIPING TO WATER CLOSET.	
UR-1	FLOOR MOUNT URINAL - MANUAL FLUSHOMETER	KOHLER	K-4920-T	FLOOR	3/4"	-	2"	-	PROVIDE SLOAN ROYAL 186-0.5 FLUSHOMETER. OR EQUAL.	
SH-1	ADA SHOWER	TILE BY OTHER	TILE BY OTHER	WALL	1/2"	1/2"	2"	-	PROVIDE BRADLEY 1C-TMV-SF-A36 ADA SHOWER PACKAGE (1.5 GPM). PACKAGE INCLUDES ARM MOUNT BRACKET, VACUUM BREAKER, 60" METAL HOSE, & COMBINATION SLIDE BAR/GRAB BAR. SET MIXING VALVE TO 110°F. VERIFY SEAT AND VALVE ORIENTATION PRIOR TO ORDERING. PROVIDE 2"FD FOR SHOWER DRAIN. PROVIDE HOT WATER CIRCULATION PER WISCONSIN PLUMBING CODE.	
SH-2	SHOWER	TILE BY OTHER	TILE BY OTHER	WALL	1/2"	1/2"	2"	-	PROVIDE BRADLEY 1C-TMV-SF SHOWER PACKAGE (1.5 GPM). PACKAGE SHOWER HEAD AND VALVE. SET MIXING VALVE TO 110°F. VERIFY RIGHT HAND AND LEFT HAND VALVE LOCATIONS PRIOR TO ORDERING. PROVIDE 2"FD FOR SHOWER DRAIN. PROVIDE HOT WATER CIRCULATION PER WISCONSIN PLUMBING CODE.	
EWC-1	SINGLE ELECTRIC WATER COOLER W/ BOTTLE FILLER - ADA	ELKAY	LZS8WSSP	WALL	1/2"	-	1 1/2"	1 1/2"	MCGUIRE 8902 P-TRAP AND MCGUIRE H2165CCLK STOP. UNIT COMES WITH BOTTLE FILLING STATION. VERIFY UNIT HEIGHT WITH ARCHITECTURAL DRAWINGS.	
LT-1	LAUNDRY TUB	MUSTEE	18F	FLOOR	3/4"	3/4"	2"	1/12"	PROVIDE CHICAGO 1100-L9-317ABCP FAUCET, MCGUIRE 8912 P-TRAP W/ CONTINUING WASTE, MCGUIRE 151A STRAINER AND MCGUIRE H2165CCLK STOPS. PROVIDE WATTS 8AC HOSE CONNECTION VACUUM BREAKER. PROVIDE HOT WATER CIRCULATION PER WISCONSIN PLUMBING CODE.	
WP-1	FUTURE WHIRLPOOL	FUTURE (BY OTHER)	FUTURE (BY OTHER)	FLOOR	3/4"	3/4"	4"	-	COORDINATE LOCATION AND CONNECTIONS WITH OWNER AND ARCHITECT. TUB AND ALL ASSOCIATED COMPONENTS TO BE PROVIDED IN FUTURE BY OWNER. PROVIDE ACORN #8186 WATER SUPPLY & WASTE WALL BOX. PROVIDE PLATE SEALING OFF WASTE OPENING OF BOX. PROVIDE 4"FS FOR TUB DRAIN. PROVIDE HOT WATER CIRCULATION PER WISCONSIN PLUMBING CODE.	
HB-1	HOSE BIBB	WOODFORD	24	PIPE	3/4"	-	-	-	COORDINATE FINAL INSTALLATION LOCATION AND ELEVATION WITH OWNER. PROVIDE WATTS 8AC HOSE CONNECTION VACUUM BREAKER. OR EQUAL.	
FD	FLOOR DRAIN	JOSAM	30000-A	FLOOR	-	-	SEE PLANS	-	MOUNT STRAINER FLUSH WITH FINISH FLOOR.	
FS	FLOOR SINK	JOSAM	49300-4-43	FLOOR	-	-	SEE PLANS	-	MOUNT GRATE FLUSH WITH FINISH FLOOR. PROVIDE 3/4 GRATE.	
TD-1	TRENCH DRAIN	MEA-JOSAM	200 SERIES	FLOOR	-	-	4"	-	8" WIDE, 39.7 INCH (1 METER) PRE-SLOPED MODULAR DRAIN CHANNELS, PRE-SLOPED BOTTOM, HEAVY DUTY FRAME ASSEMBLY, 152411 CLASS C DUCTILE IRON SLOTTED GRATE, END CAPS AND CENTER OUTLET.	
FCO	FLOOR CLEANOUT	JOSAM	55000-1	FLOOR	-	-	SEE PLANS	-	MOUNT COVER FLUSH WITH FINISH FLOOR.	
HA-1	HAMMER ARRESTOR	WATTS	SS-C	PIPE	-	-	-	-	SEE ISOMETRIC FOR LOCATIONS. OR EQUAL.	
IM-1	ICE MAKER	BY OTHER	BY OTHER	FLOOR	1/2"	-	DRAIN TO FS	-	ICE MAKER BY OTHER, PC TO MAKE ALL FINAL PLUMBING CONNECTIONS. PROVIDE OATEY #39125 WATER SUPPLY WALL BOX WITH ASSE 1022 BACKFLOW PROTECTION ON ICE MAKER SUPPLY. INSTALL WALL BOX FLUSH WITH FINISHED WALL. INSTALL INLINE WATER FILTER SUPPLIED BY OTHER. DRAIN ICE MAKER TO NEW FLOOR SINK.	

	PLUMBING ABBREVIATIONS							
AG	ABOVE GRADE	FCO	FLOOR CLEANOUT	PSF	POUNDS PER SQUARE FOOT			
ADD	ADDENDUM	FD	FLOOR DRAIN	PSI	POUNDS PER SQUARE INCH			
ADDL	ADDITIONAL	FLR	FLOOR	PWR	POWER			
ADJ	ADJUSTABLE	FPM	FEET PER MINUTE	1 WIX	1 OWER			
AFF	ABOVE FINISH FLOOR	FS	FLOOR SINK	QTY	QUANTITY			
AFF	ABOVE FINISH GRADE	FT	FOOT (FEET)	QIT	QUANTIT			
	ALTERNATE		FOOT (FEET)		RADIUS			
ALT		<u> </u>		R				
APPRX		GA GAL	GAUGE/GAGE	RD	ROOF DRAIN			
ARCH	ARCHITECT, ARCHITECTURAL		GALLON	REQD	REQUIRED			
		GALV	GALVANIZED	REV	REVERSE OR REVISION			
BG	BELOW GRADE	GC	GENERAL CONTRACTOR	RO	REVERSE OSMOSIS			
BLDG	BUILDING	GPM	GALLONS PER MINUTE					
BI	BLACK IRON	GYP	GYPSUM	SAN	SANITARY			
BOP	BOTTOM OF PIPE			SCH	SCHEDULE			
BOT	BOTTOM	HB	HOSE BIB	SECT	SECTION			
BSMT	BASEMENT	HORIZ	HORIZONTAL	SF	SQUARE FEET			
BTWN	BETWEEN	HP	HORSEPOWER	SHT	SHEET			
		HT	HEIGHT	SHWR	SHOWER			
CI	CAST IRON	HW	HOT WATER	SIM	SIMILAR			
CL OR %9	61 53 ENTERLINE			SPEC	SPECIFICATIONS			
CLR	CLEAR	IE	INVERT ELEVATION	SQ	SQUARE			
CO	CLEANOUT	IN	INCH	SS	STAINLESS STEEL			
COL	COLUMN	INSUL	INSULATION					
COMP	COMPRESSOR			TD	TRENCH DRAIN			
CONC	CONCRETE	LB	POUND	TEMP	TEMPERATURE OR TEMPORARY			
COND	CONDENSATE	LOC	LOCATION	TW	TEPID WATER			
CONN	CONNECTION			TYP	TYPICAL			
CONT	CONTINUOUS	MAX	MAXIMUM					
CW	CHILLED/COLD WATER	MC	MECHANICAL CONTRACTOR	UNO	UNLESS NOTED OTHERWISE			
		MECH	MECHANICAL					
DEPT	DEPARTMENT	MIN	MINIMUM	V	VENT			
DET	DETAIL	MFR	MANUFACTURER	VAR	VARIABLE OR VARIES			
DF	DRINKING FOUNTAIN			VERT	VERTICAL			
DIA OR 🗆	DIAMETER	NFC	NOT FOR CONSTRUCTION	VOL	VOLUME			
DN	DOWN	NIC	NOT IN CONTRACT	VS	VENT STACK			
DW	DEIONIZED WATER	NTS	NOT TO SCALE	VTR	VENT THRU ROOF			
DWG	DRAWING	NPCW	NON-POTABLE COLD WATER					
		NPHW	NON-POTABLE HOT WATER	W/	WITH			
EC	ELECTRICAL CONTRACTOR	NPRO	NON-POTABLE RO WATER	W/IN	WITHIN			
ECO	EXTERIOR CLEANOUT			W/O	WITH OUT			
EL	ELEVATION	OC	ON CENTER	WC	WATER COLUMN (INCHES OF)			
ELEC	ELECTRICAL			WCO	WALL CLEANOUT			
EQ	EQUAL	PC	PLUMBING CONTRACTOR	WG	WATER GAUGE			
EQUIP	EQUIPMENT	PLB	PLUMBING	WP	WEATHER PROOF			
EXIST	EXISTING	PRES	PRESSURE	WT	WEIGHT			





PLUMBING RENOVATION NOTES WHERE EXISTING PIPING IS DESIGNATED TO BE REMOVED AND CAPPED, ALL PIPING SERVING THE DESIGNATED FIXTURE SHALL BE REMOVED FROM WITHIN WALLS TO THE POINT DESIGNATED ON THE DRAWINGS OR TO A CLEARLY VISIBLE POINT BELOW THE FLOOR IN THE CRAWL SPACE OR ABOVE THE CEILING. PIPING SHALL BE CAPPED BY APPROVED CAPPING METHODS UTILIZING PIPE CAPS INTENDED FOR SUCH USE. ALL CAPS SHALL BE AIRTIGHT AND WATERTIGHT. WHERE EXISTING SURFACES ARE DISRUPTED DUE TO THE REMOVAL OF EXISTING EQUIPMENT OR PIPING, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF DISRUPTED SURFACES TO MATCH EXISTING ADJACENT SURFACES. PLUMBING FIXTURES DESIGNATED TO BE REUSED SHALL BE CLEANED AND MAINTENANCE SERVICED TO OPERATE AS INTENDED. EXISTING CONDITIONS AS SHOWN ON THE DRAWINGS ARE TAKEN FROM ORIGINAL AND AS-BUILT DRAWINGS OF THE BUILDING AND IN PART ARE UNVERIFIED. FIELD CONDITIONS SHALL GOVERN. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO INITIATION OF WORK. ALL EXISTING PIPING, NOT REMAINING IN SERVICE AFTER NEW CONSTRUCTION, SHALL PROPERLY BE REMOVED. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EXISTING PLUMBING FIXTURES AND TRIM, PIPING, VALVES, ETC. IN AREAS TO BE DEMOLISHED. ALL EXISTING PLUMBING FIXTURES TO BE REMOVED AND ARE NOT TO BE REUSED SHALL REMAIN THE PROPERTY OF THE OWNER. DISCARD UNWANTED FIXTURES AT AT THE DISCRETION OF THE OWNER. PIPING WHICH IS TO REMAIN IN SERVICE SHALL NOT BE DISTURBED. EXISTING PIPING BROKEN DURING CONSTRUCTION SHALL BE REPLACED WITH NEW PIPING OF THE SAME SIZE AND MATERIAL. ALL EXISTING SANITARY, DOMESTIC WATER, AND RAINWATER PIPING THAT ARE LOCATED IN EXISTING WALLS TO BE DEMOLISHED AND REMAINING IN SERVICE AFTER CONSTRUCTION SHALL BE RELOCATED TO NEW WALLS, CHASES, ETC. COORDINATE WITH GENERAL CONTRACTOR TO PATCH ALL EXISTING WALLS,

- FLOORS, CEILINGS, ETC., AS REQUIRED BY NEW WORK.
- REMOVE ALL UNUSED TEES TO ELIMINATE DEAD ENDS IN PIPING. CONTRACTOR SHALL VERIFY EXISTING SHUTOFF VALVES FOR ALL PLUMBING SYSTEMS AND

GENERAL PLUMBING NOTES

ASSOCIATED AREAS SERVED BY EACH SHUTDOWN PRIOR TO ANY WORK AND SHUTDOWNS.

THESE DRAWINGS SHALL NOT BE SCALED. SEE ARCHITECTURAL/CIVIL DRAWINGS FOR DIMENSIONAL INFORMATION. THIS ENGINEER WILL NOT BE LIABLE FOR MISCALCULATED PRODUCT TAKE-OFFS DUE TO SCALING OF DRAWINGS.

- VENT PIPING SHOWN ON FLOOR PLANS IS DIAGRAMATIC EXCEPT FOR VENT THRU ROOF (VTR) LOCATIONS.
- VALVES AND FITTINGS SHALL BE OF SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
- CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY AND WASTE PIPING AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.
- ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH
- NO CHANGES IN SIZING. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES
- FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES, PIPING EXPOSED SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
- PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE INACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
- COORDINATE EXACT LOCATION OF FLOOR DRAINS FOR HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR.
- DO NOT PENETRATE WALL FOOTINGS WITH PIPING, COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER. PROVIDE LINK-SEALS IN ALL PENETRATIONS OF EXTERIOR
- 14. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE IN PROVIDED CEILING SPACE.

WALLS

15. COORDINATE PIPING INSTALLATION AS TO NOT INTERFERE WITH HVAC EQUIPMENT ACCESS.

—ঈ— | BALL VALVE OR SHUT-OFF VALVE PRESSURE REDUCING VALVE (PRV) RPZ VALVE OR BACKFLOW PREVENTER HAMMER ARRESTOR (PISTON TYPE) HAMMER ARRESTOR (BELLOWS TYPE) 9 PIPE REDUCER FITTING \rightarrow END CAP PIPE CONNECTION _____ I FLOW DIRECTION ARROW G PIPING ELBOW DOWN O PIPING ELBOW UP OR PIPING RISER UP & DOWN PIPING TEE DOWN \sim + HOSE BIB OR WALL HYDRANT FLOW METER M PRESSURE REGULATOR R CIRCULATING PUMP (HOT WATER RETURN) ۲ → I I NEW TO EXISTING PIPE CONNECTION NEW TO EXISTING POINT OF CONNECTION SYMBOL PIPING LINEWEIGHT: EXISTING PIPING LINEWEIGHT: NEW/DEMOLITION

PLUMBING PIPING LEGEND

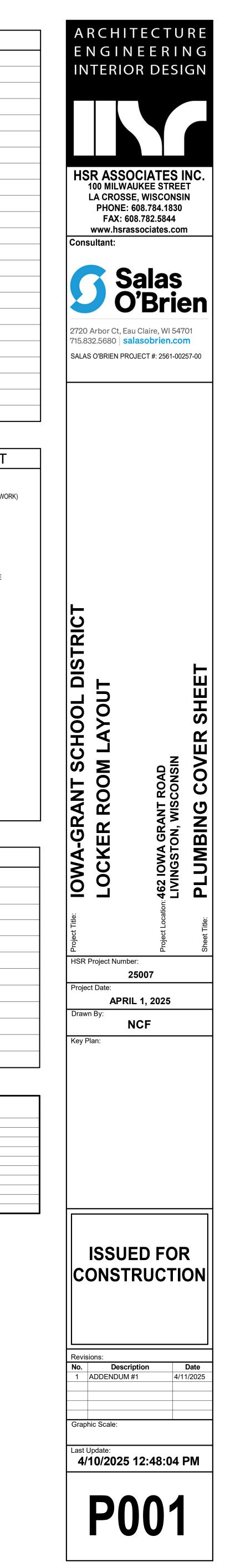
WATER CALCULATIONS WORKSHEET

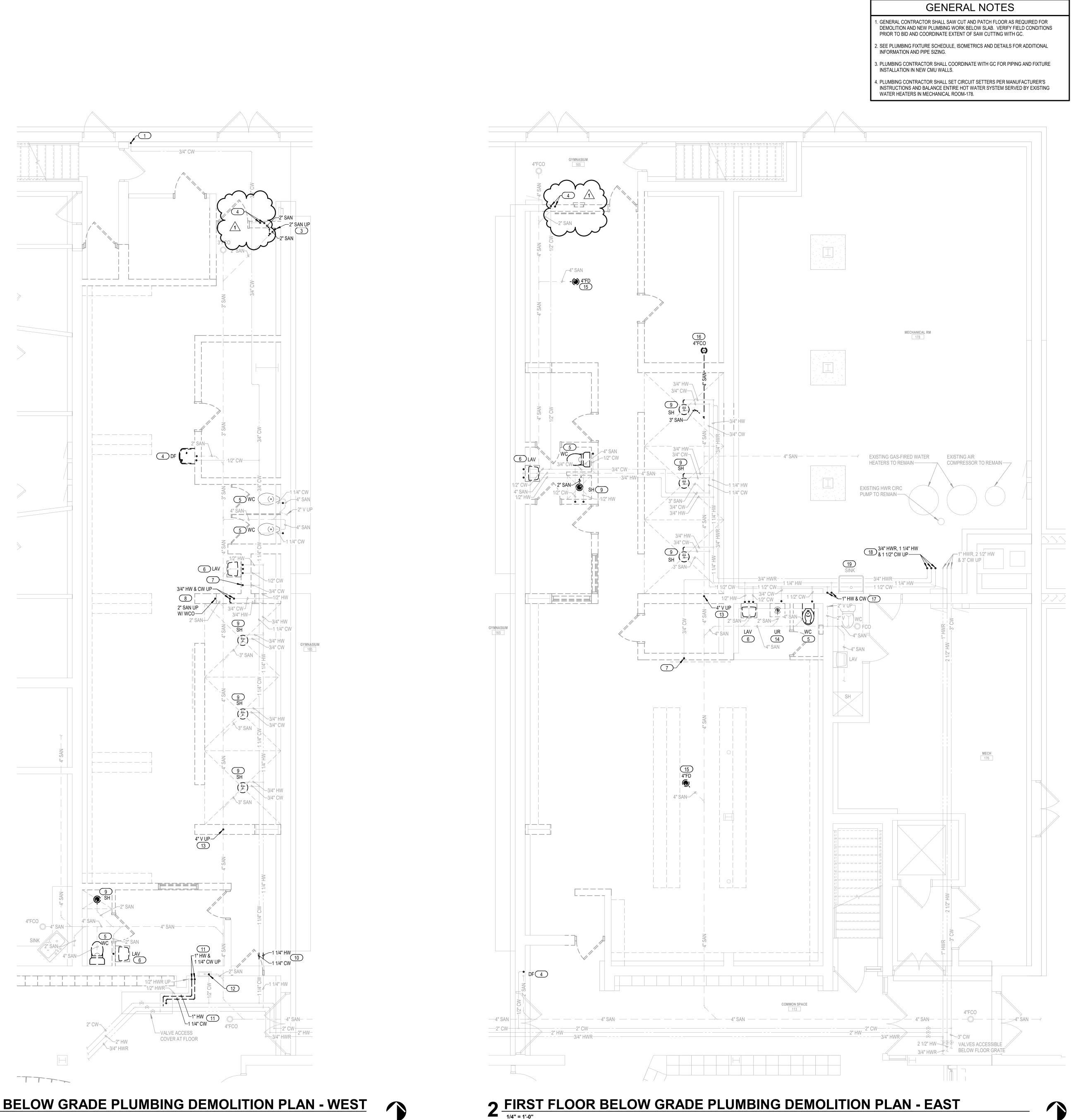
- 73 DEMAND OF BUILDING IN GALLONS PER MINUTE (REMODEL ONLY).
- 2. 55 LOW PRESSURE AT THE CURBSTOP OR AT EXTERNAL PRESSURE TANK. (AT AREA OF WORK)
- 3. N/A DIFFERENCE IN ELEVATION FROM MAIN TO METER.
- . N/A SIZE OF WATER METER IN INCHES.
- 5. N/A DEVELOPED LENGTH FROM CURBSTOP TO METER.
- . <u>N/A</u> FIND PRESSURE LOSS DUE TO FRICTION IN <u>N/A</u> WATER SERVICE. <u>N/A</u> (PSI/100 FT)
- N/A FIND PRESSURE LOSS DUE TO ELEVATION, MAIN TO METER (OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE). MULTIPLY THE DIFFERENCE BY .434 PSI/FT.
- N/A FIND THE PRESSURE LOSS DUE TO METER. 55 SUBTRACT THE LOSS DUE TO FRICTION (STEP 6), LOSS DUE TO ELEVATION (STEP 7), AND LOSS DUE TO METER (STEP 8) FROM THE LOW MAIN PRESSURE (OR LOW PRESSURE AT EXTERNAL PRESSURE TANK). THIS CALCULATION IS THE AVAILABLE PRESSURE AFTER THE WATER METER (OR AT THE BUILDING CONTROL VALVE). THIS
- ANSWER IS ENTERED IN LINE B, BELOW. INFORMATION NEEDED FOR WATER DISTRIBUTION SIZING:
- <u>FORMULA:</u> A = [B (C + D + E)] x 100 / F
- 3 PRESSURE AVAILABLE FOR UNIFORM LOSS (PSI/100' OF PIPE).
- 55 AVAILABLE PRESSURE AFTER WATER METER (SEE ITEM 9, ABOVE).
- C. 30 PRESSURE NEEDED AT CONTROLLING FIXTURE.
- D. 3.5 DIFFERENCE IN ELEVATION BETWEEN WATER METER (BUILDING CONTROL VALVE
- OR INTERNAL PRESSURE TANK) AND CONTROLLING FIXTURE IN FEET 8 x .434 PSI/FT
- PRESSURE LOSS DUE TO WATER SOFTNERS, WATER TREATMENT DEVICES, INSTANTANEOUS WATER HEATERS AND BACKFLOW PREVENTORS.
- 600 DEVELOPED LENGTH FROM WATER METER TO CONTROLLING FIXTURE IN
- FEET 400 x 1.5.

PLUMBING PIPING LINETYPES						
LINETYPE	DESCRIPTION					
G	GAS					
	SANITARY ABOVE GRADE					
	SANITARY BELOW GRADE					
	VENT ABOVE GRADE					
	VENT BELOW GRADE					
	COLD WATER					
	COLD WATER BELOW GRADE					
	HOT WATER					
	RECIRC WATER					
	BELOW GRADE STORM					
	ABOVE GRADE STORM					

	PLUMBING SHEET INDEX
P001	PLUMBING COVER SHEET
P002	PLUMBING SAW CUTTING PLAN
PD100	FIRST FLOOR BG PLUMBING DEMO PLANS
PD101	FIRST FLOOR AG PLUMBING DEMO PLANS
P100	FIRST FLOOR BG PLUMBING PLANS
P101	FIRST FLOOR AG PLUMBING PLANS
P102	SECOND FLOOR PLUMBING PLAN
P201	PLUMBING ISOMETRICS - SANITARY WASTE & VENT
P202	PLUMBING ISOMETRICS - DOMESTIC WATER
P301	PLUMBING DETAILS







1 FIRST FLOOR BELOW GRADE PLUMBING DEMOLITION PLAN - WEST



\bigcirc	KEYED NOTES
1	REMOVE EXISTING 3/4" CW SUPPLY TO EXTERIOR HOSE BIBB AND CAP BELOW GRADE. EXISTING HOSE BIBB SHALL BE SUPPLIED FROM ABOVE GRADE.
2	REMOVE EXISTING 1/2" CW, 2" SAN AND 1 1/2" VENT SERVING DRINKING FOUNT ALREADY REMOVED.
3	REMOVE EXISTING SANITARY PIPING UP, SERVING FLOOR DRAIN ON SECOND FLOOR.
4	REMOVE EXISTING DRINKING FOUNTAIN AND ALL ASSOCIATED PIPING AND COMPONENTS AS SHOWN.
5	REMOVE EXISTING WATER CLOSET AND ALL ASSOCIATED PIPING AND COMPONENTS AS SHOWN.
6	REMOVE EXISTING LAVATORY AND ALL ASSOCIATED PIPING AND COMPONENT SHOWN.
7	REMOVE EXISTING INTERIOR HOSE BIBB AND ALL ASSOCIATED PIPING AND COMPONENTS AS SHOWN.
8	REMOVE EXISTING ALL ASSOCIATED PIPING AND COMPONENTS AS SHOWN SERVING FIXTURES ON SECOND FLOOR. REMOVE DRINKING FOUNTAIN ON SECOND FLOOR.
9	REMOVE EXISTING SHOWER AND ALL ASSOCIATED PIPING AND COMPONENTS SHOWN.
(10)	REMOVE PORTION OF BELOW GRADE HOT AND COLD WATER MAINS AS SHOW AND CAP.
(11)	REMOVE EXISTING HOT AND COLD WATER MAINS AS SHOWN TO BE REPLACED LARGER PIPING DURING NEW CONSTRUCTION.
(12)	REMOVE EXISTING 1/2" CW SERVING DRINKING FOUNTAIN ALREADY REMOVED VENT PIPING SHALL BE CAPPED AND ABANDONED AT WALL.
(13)	REMOVE EXISTING 4" VENT PIPING IN WALL TO BE DEMOLISHED, AS SHOWN.
14	REMOVE EXISTING FLOOR MOUNTED URINAL AND ALL ASSOCIATED PIPING AND COMPONENTS AS SHOWN.
(15)	REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED PIPING AND COMPONE AS SHOWN.
(16)	REMOVE EXISTING FLOOR CLEANOUT AND ALL ASSOCIATED PIPING AND COMPONENTS AS SHOWN.
17	REMOVE EXISTING HOT WATER AND COLD WATER PIPING SERVING EXISTING RESTROOM TO REMAIN. RECONNECT NEW PIPING DURING NEW CONSTRUCTI
18	REMOVE EXISTING DOMESTIC HOT, HOT WATER RETURN AND COLD WATER M. AS SHOWN AND CAP AT FLOOR AND AT EXISTING MAINS TO REMAIN.
19	REMOVE SINK FAUCET AND REINSTALL. PROVIDE NEW HOT AND COLD WATER PIPING TO EXISTING SINK'S FAUCET. CLEAN AND MAINTAIN EXISTING SINK AND FAUCET.

NORTH

W NTAIN

NTS AS

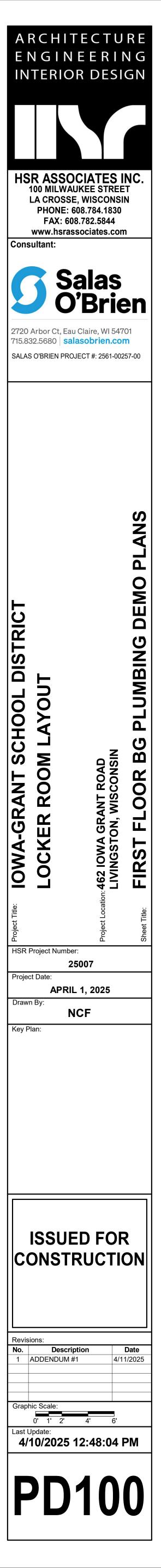
TS AS DWN

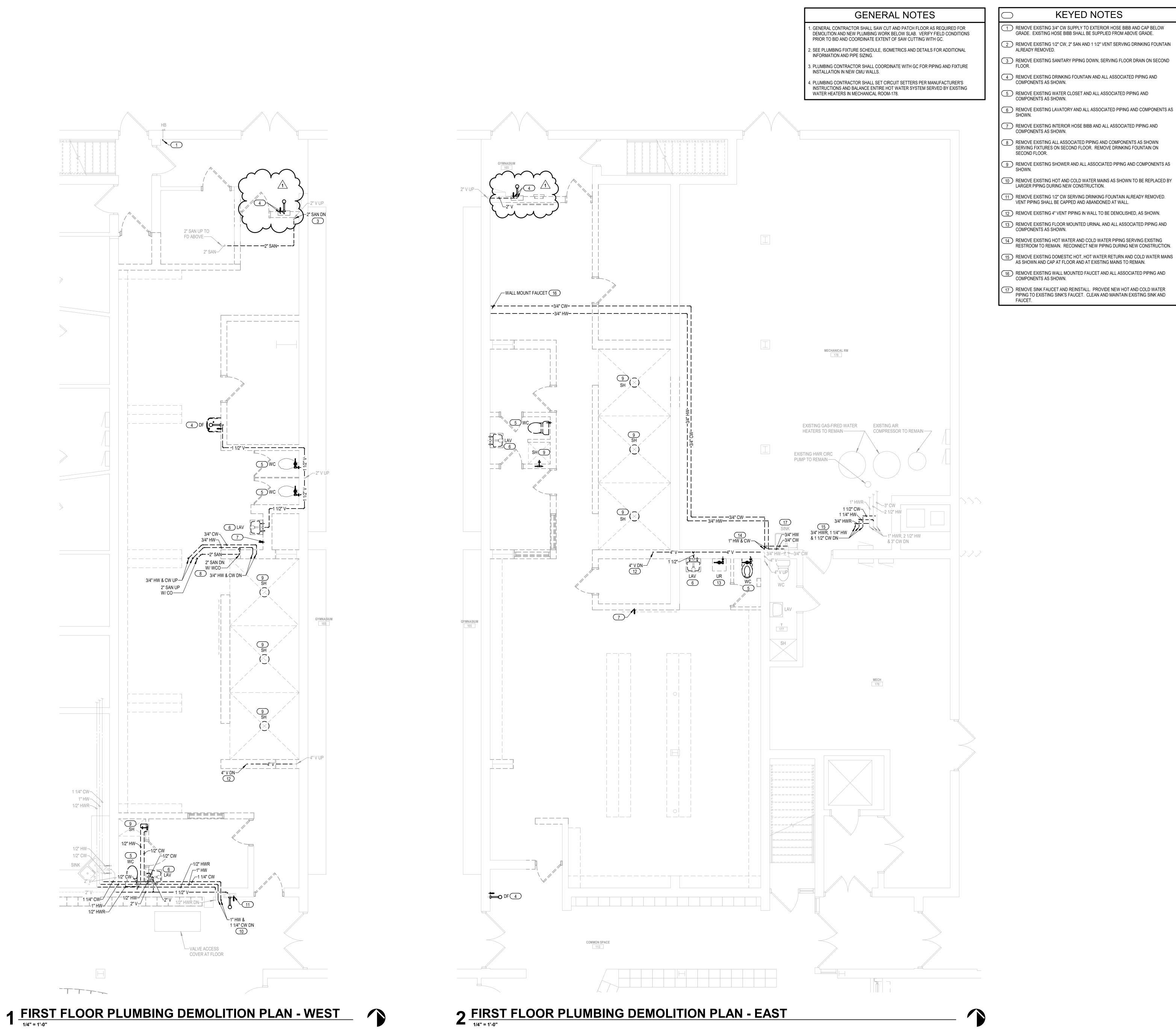
ED BY ED.

AND

NENTS

CTION. MAINS

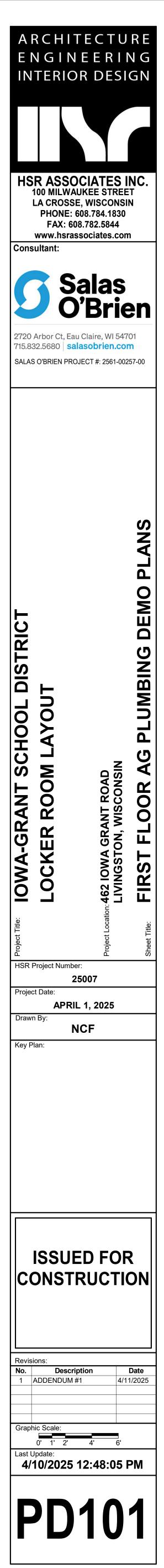


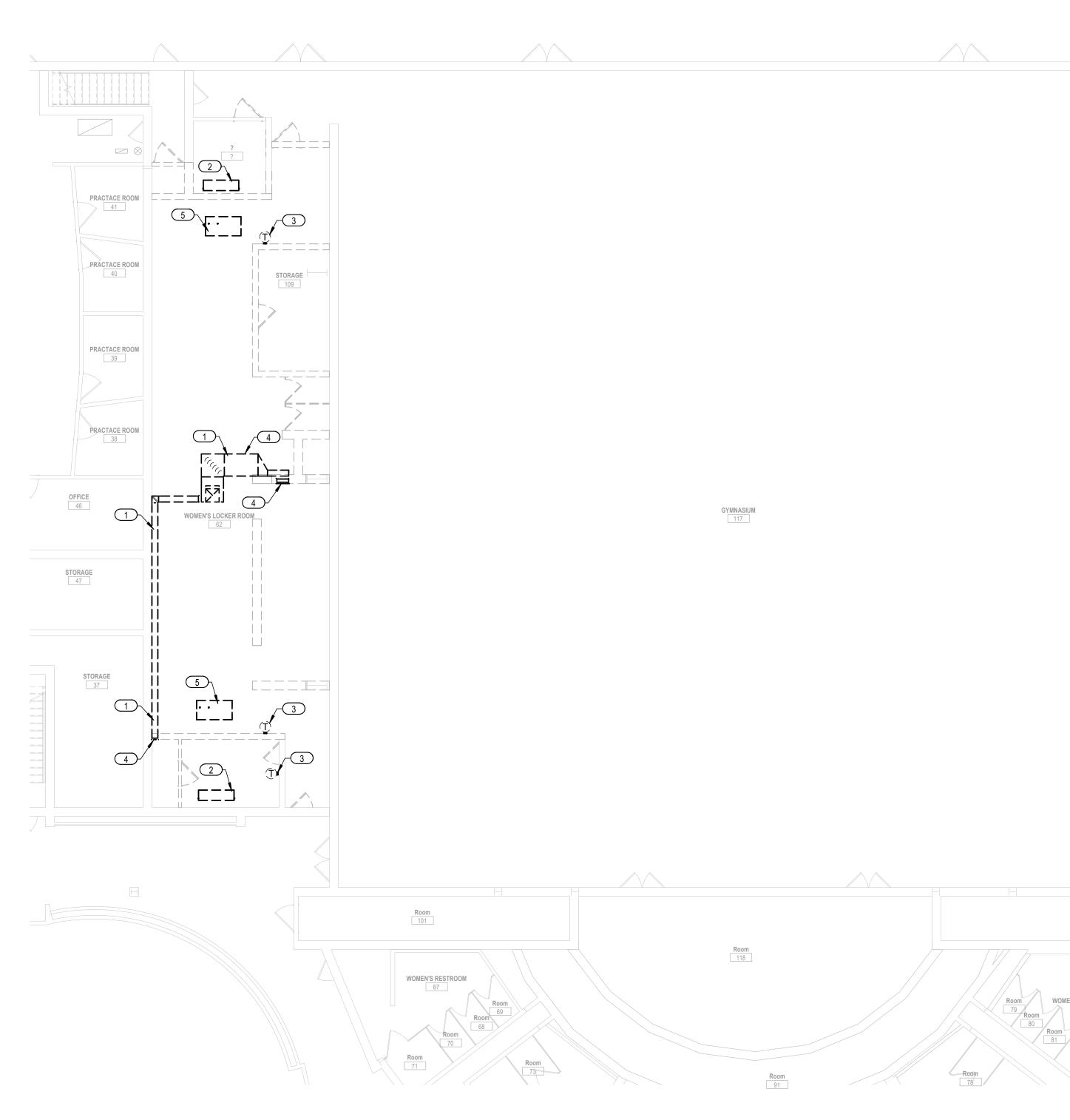


NORTH



NORTH

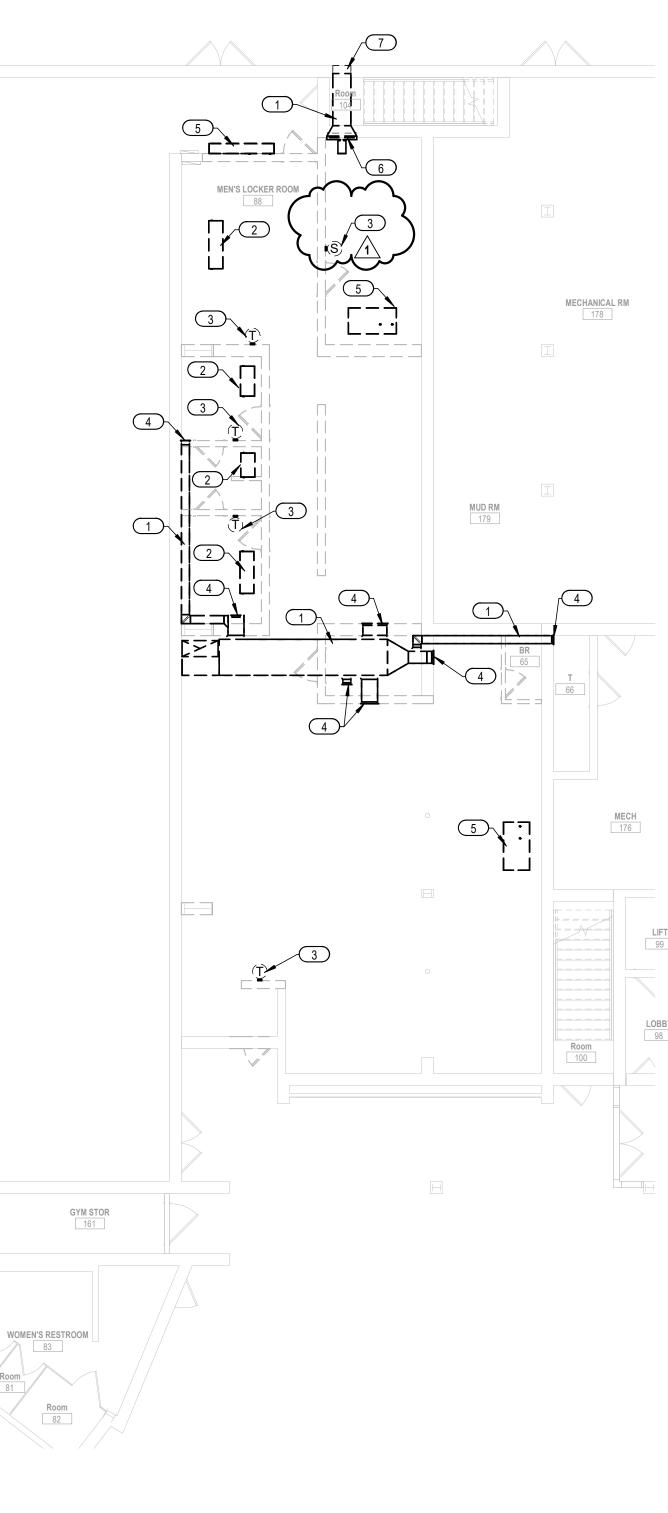


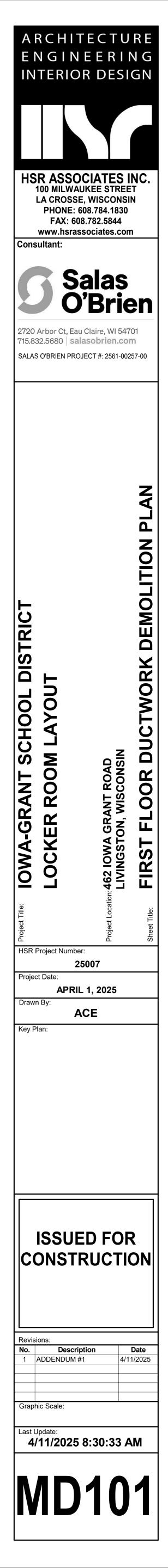


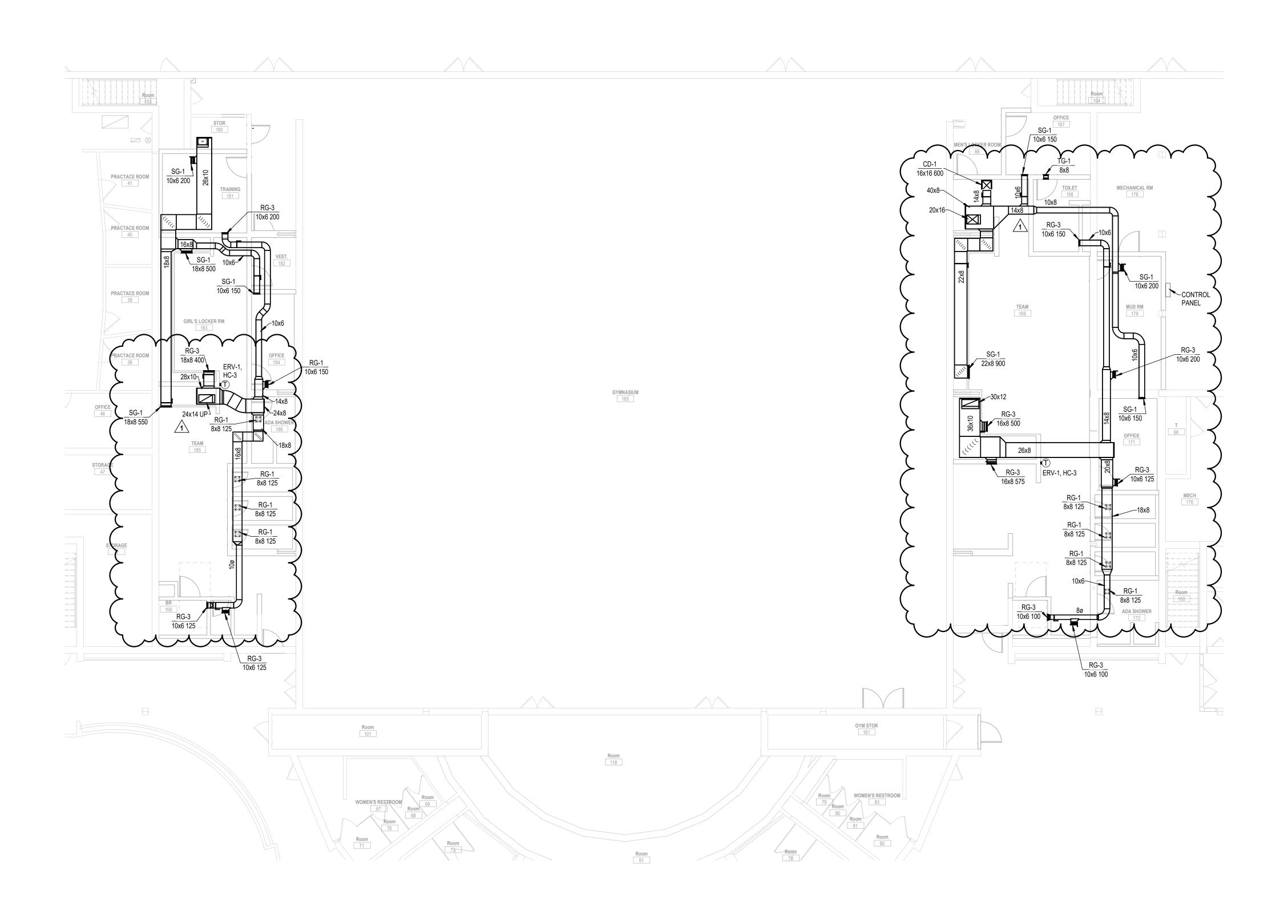


1 FIRST FLOOR DUCTWORK DEMOLITION PLAN

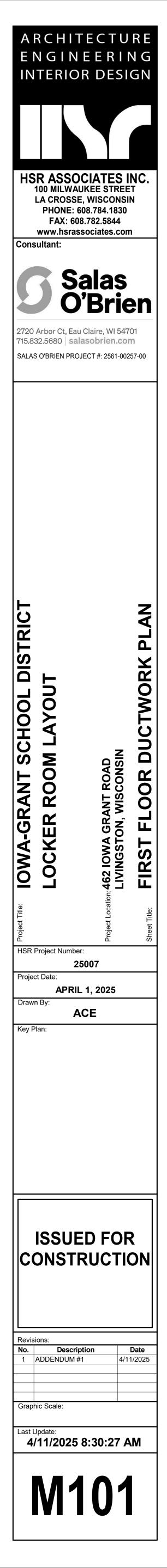
KEYED NOTES
1 REMOVE DUCTWORK AND ASSOCIATED HANGERS DASHED AND IN BOLD.
2 REMOVE RADIANT TERMINAL UNITS, HANGERS, AND ASSOCIATED CONTROLS DASHED AND IN BOLD.
3 REMOVE THERMOSTATS AND ASSOCIATED PNEUMATIC TUBING BACK TO MAINS DASHED AND IN BOLD.
4 REMOVE GRILLES DASHED AND IN BOLD.
5 REMOVE CABINET UNIT HEATERS AND ASSOCIATED PNEUMATIC CONTROLS DASHED AND IN BOLD. REMOVE PNEUMATIC TUBING BACK TO MAINTAINS AND CAI
6 REMOVE EXHAUST FAN AND ASSOCIATED CONTROLS DASHED AND IN BOLD.
7 REMOVE LOUVER DASHED AND IN BOLD.

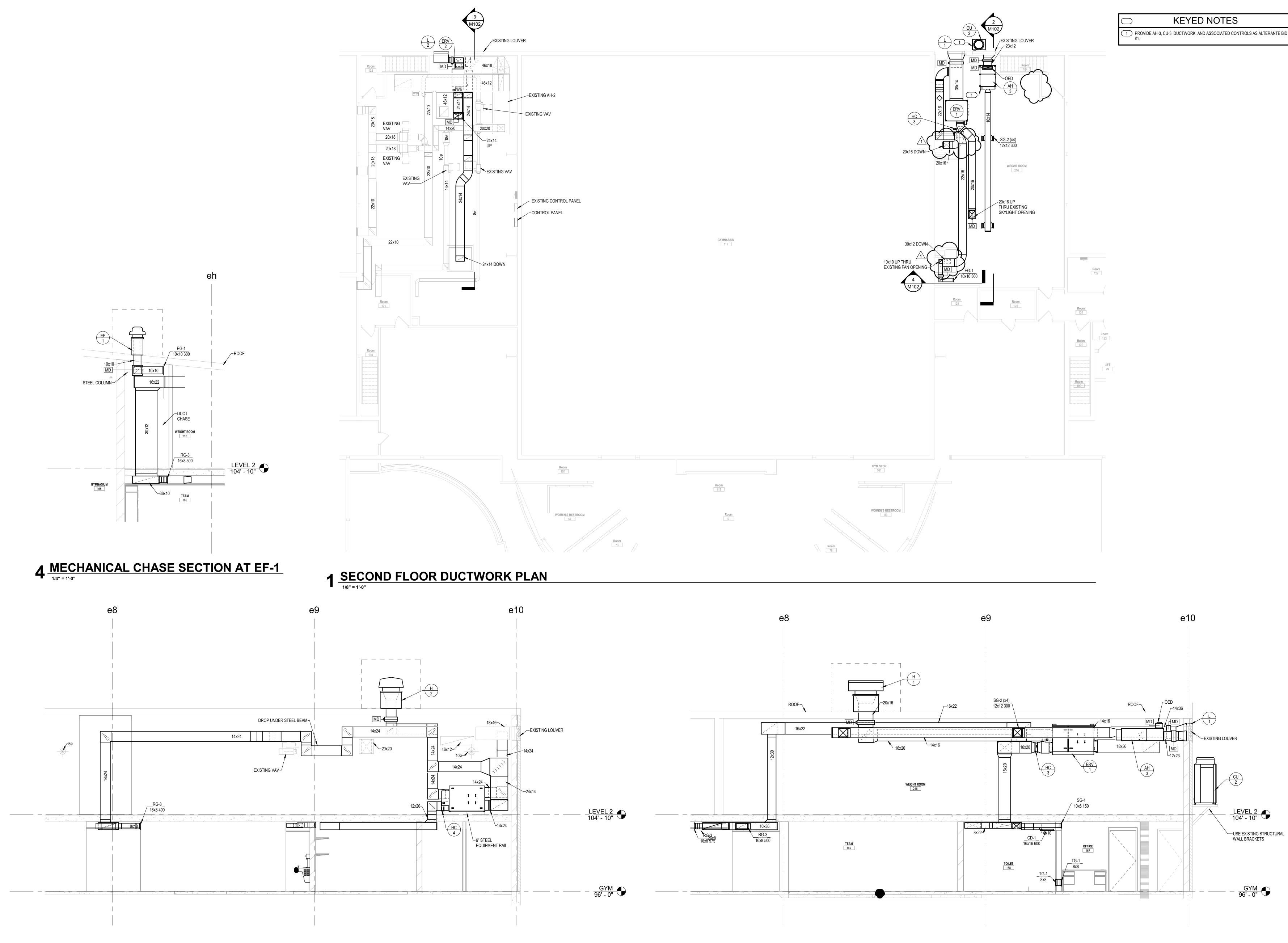






1 FIRST FLOOR DUCTWORK PLAN





3 MECHANICAL SECTION VIEW AT ERV-2

2 MECHANICAL SECTION VIEW AT ERV-1





FAN SCHEDULE

						FAN	I DATA								E	ELECTRICAL							
									S.P.	WHEEL DIA.	BACKDRAFT	CURB			FREQUENCY	DISCO	NNECT	CONTROLL	ER/STARTER				
TAG	AREA SERVED	SYSTEM	TYPE	CFM	BHP	MHP	RPM	DRIVE	(IN. W.C.)	(IN.)	DAMPER	TYPE	VOLT	PHASE	(HZ)	BY	TYPE	BY	TYPE	WEIGHT	MANUFACTURER	MODEL	NOTES
EF-1	WEIGHT ROOM	AH-3	ROOF	300	0.03	1/10	1,145	DIRECT	0.5	10.9	MOTORIZED	24" CURB	115	1	60	MFR	NF	MFR	ECM	41	GREENHECK	G-090-VG	1,2
	SEE SPECIFICATION PROVIDE SHAFT GR					05 13] [23 05 13].																	

PUMP SCHEDULE

								MOTOR					ELECTR	ICAL					
			PUMPED	DESIGN FLOW	DESIGN HEAD	DESIGN PUMP SPEED							DISCO	NNECT	STA	ARTER		SERIES/	
TAG	SERVES	PUMP TYPE	FLUID	(GPM)	(FT. HD)	(RPM)	BHP	HP	RPM	VOLT	PHASE	Hz	BY	TYPE	BY	ТҮРЕ	MANUFACTURER	MODEL	NOTES
HCP-3	AH-3	INLINE	WATER	4.2	15	3,939	0.17	0.17	3,600	115	1	60	EC	NF	MFR	ECM	BELL & GOSSETT	ECOCIRC XL 36-45	1
HCP-4	ERV-1	INLINE	WATER	3.7	15	2,939	0.17	0.17	3,600	115	1	60	EC	NF	MFR	ECM	BELL & GOSSETT	ECOCIRC XL 36-45	1
HCP-5	ERV-2	INLINE	WATER	2.8	15	2,935	0.17	0.17	3,600	115	1	60	EC	NF	MFR	ECM	BELL & GOSSETT	ECOCIRC XL 36-45	1
NOTES:			1	1		1	1		1	1	I			1	1	1	1	1	
1.	REFER TO SPECIFICATIO	ON SECTION 23 21 23 FOR	ADDITIONAL INFOR	RMATION AND F	REQUIREMEN	ΓS.													

CONDENSING UNIT SCHEDULE

									ELECTR	ICAL							
												DISCO	DNNECT	CONTROLLER/STARTER			
		NOMINAL DESIGN		SATURATED SUCTION	AMBIENT TEMP.	NO. OF	NO. OF										
TAG	SERVES	(TONS)	REFRIGERANT		(°F)	COMPRESSORS	FANS	VOLT	PHASE	MCA	MOCP AMPS	BY	TYPE	BY	MANUFACTURER	MODEL	NOTES
CU-2	AH-3	3	R-454B	45	95	1	1	208	3	16.6	25.0	EC	MFR	MOTOR STARTER	TRANE	STTA4036A3000A	1,2
NOTES:	1		-	1		1											
1.	SEE SPECIFICAT	ION SECTION [23	62 13] FOR ADDI	TIONAL INFORM	ATION.												
2.	PROVIDE AS ALT	ERNATE BID #1.															

COIL SCHEDULE - WATER

				AIR SIDE					WATER SIDE					COIL					
				EAT	LAT														
		FACE VEL.		DB	DB	A.P.D.	TOTAL		EWT	LWT	W.P.D.	SIZE	NO. OF ROWS			COIL			
TAG	SERVES	(FPM)	CFM	(°F)	(°F)	(IN. W.C.)	MBH	GPM	(°F)	(°F)	(FT. HD)	(L x H) (IN.)		FINS/IN.	FLUID TYPE	CONNECTION	MANUFACTURER	MODEL	NOTES
HC-3	ERV-1	873	2,000	46.8	81.8	0.5	73.6	3.69	140	100.0	7.0	22x15	2.0	150.0	WATER	0.75	TRANE	DT0B15022G0BA15 0BABA00B	1
HC-4	ERV-2	900	1,500	45.9	81.1	0.5	55.5	2.78	140	100.0	8.1	16x15	2.0	150.0	WATER	0.75	TRANE	DT0B15016G0BA15 0BABA0AB	1
NOTES:							•												•

1. SEE SPECIFICATION SECTION [23 73 12] FOR ADDITIONAL INFORMATION.

			FACE SIZE			γ~ 	
TAG	MATERIAL		(INCH)	FINISH	MANUFACTURER	MODEL	REMARKS
CD-1	STEEL	SINGLE DEFLECTION		WHITE	KRUEGER	580	
SG-1	STEEL	SINGLE DEFLECTION	SEE PLAN	WHITE	KRUEGER	580	45° HORIZONTAL FRONT BAR ALIGNMENT
RG-1	STEEL	EGG-CRATE	8x8	WHITE	KRUEGER	EGC-5	PROVIDE 3'-0" FLEXIBLE DUCT SECTION
RG-2	STEEL	EGG-CRATE	12x12	WHITE	KRUEGER	EGC-5	
RG-3	STEEL	SINGLE DEFLECTION	SEE PLAN	WHITE	KRUEGER	S580	35° HORIZONTAL FRONT BAR ALIGNMENT
EG-1	STEEL	SINGLE DEFLECTION	SEE PLAN	WHITE	KRUEGER	S580	35° HORIZONTAL FRONT BAR ALIGNMENT
TG-1	STEEL	DOUBLE SIDED DOOR GRILLE	8x8	WHITE	KRUEGER	5600A	V-SHAPED DEFLECTION VANES

ROOF HOO

TAG	LOCATION
RH-1	ROOF
RH-2	ROOF
<u>NOTES:</u> 1.	

_____ AIR SYMBOL

SYMBOL	ERV-1	ERV-2 /
LOCATION	EQUIPMENT STORAGE	
WEIGHT (LBS)	888	579
SUPPLY FAN (NOTE 6)	(`
CFM	2000	1400
EXTERNAL STATIC PRESSURE	1.0	1.0
ТҮРЕ	BELT-DRIVE PLENUM	BELT-DRIVE PLEN
FAN RPM	1512	1498
BHP	1.29	1.09
МНР	3	2
DISCONNECT BY	EC	EC
DISCONNECT TYPE	NF	NF
CONTROLLER/STARTER BY	MFR	MFR
CONTROLLER/STARTER TYPE	ECM	ЕСМ
EXHAUST FAN (NOTE 6)		
CFM	2,250	1,500
EXTERNAL STATIC PRESSURE	1.25	1.43
ТҮРЕ	BELT-DRIVE PLENUM	BELT-DRIVE PLEN
FAN RPM	1,689	1,694
ВНР	1.82	1.46
МНР	3	2
DISCONNECT BY	EC	EC
DISCONNECT TYPE	NF	NF
CONTROLLER/STARTER BY	MFR	MFR
CONTROLLER/STARTER TYPE	ECM	ЕСМ
FILTERS		
OUTSIDE AIR FILTER TYPE	2" PLEATED MERV 8	2" PLEATED MER
EXHAUST AIR FILTER FACE VELOCITY	2" PLEATED MERV 8	2" PLEATED MER
FIXED ENERGY RECOVERY CORE		
OUTSIDE AIR CFM	2,000	1,400
EXHAUST AIR CFM (NOTE 4)	2,200	1,500
SUMMER EFFECTIVENESS (%)	55.7%	54.2%
SUMMER EAT DB (°F) / WB (°F)	89.6 / 74.2	89.6 / 74.2
	78.8 / 68.0	79.0 / 68.2
	49.3	33.5
	73.8%	72.5%
WINTER EAT DB (°F) / WB (°F)	-20 / -20.1	-20 / -20.1
WINTER LAT DB (°F) / WB (°F)	46.8 / 39.3	45.6 / 38.6
HEAT RECOVERY (HEATING), MBH UNIT ELECTRICAL (SINGLE POINT POWER)	177	
VOLT/PHASE	208/3	208/3
MCA	16.4	10.1
MOP	20	15
DISCONNECT BY	EC	EC
	NF	NF
CONTROLLER/STARTER BY	MFR	MFR
CONTROLLER/STARTER TYPE	ЕСМ	ECM
MANUFACTURER	INTERTEK	
MODEL NUMBER	HE-3X	HE-2X
REMARKS	1-3	1-3
NOTES.	L	ζ
NOTES:		۱

SYMBOL	AH-3
SERVICE	WEIGHT ROOM
UNIT WEIGT (LBS)	325
SUPPLY FAN	
CFM	1,200
MINIMUM CFM	400
EXTERNAL STATIC PRESSURE	1.00
ТҮРЕ	CENTRIFUGAL
FAN RPM	1,748
ВНР	0.85
МНР	1.5
DISCONNECT BY	EC
DISCONNECT TYPE	NF
CONTROLLER/STARTER BY	MFR
CONTROLLER/STARTER TYPE	ECM
MINIMUM OUTSIDE AIR CFM	300
VOLT- PHASE	208/3
HEATING COIL - HOT WATER	
EAT °F	52
LAT °F	98.6
EWT °F	140
LWT °F	112
GPM	4.2
MBH	58.2
MAX. A.P.D. IN. W.C.	0.15
W.P.D. FEET HEAD	4.14
COOLING COIL - DX	
EAT °F DB	77.6
EAT °F WB	63.83
LAT °F WB	54.9
TOTAL MBH	53.6
MAX. A.P.D. IN. W.C.	0.37
SAT SUC °F	45
REFRIGERANT	R-454B
FILTER	
TYPE - PRE	MERV 8
	TRANE
	BCHE036
REMARKS	1,2

D	SCHEDU	LE	
			_

TION	SERVES	CFM	MAX. FACE VELOCITY (FPM)	PRESS. DROP (IN. W.C.)	THROAT SIZE (W x L) (IN.)	HOOD SIZE (W x L) (IN.)	THROAT AREA (SF)	ТҮРЕ	DAMPER TYPE	CURB	MANUFACTURER	MODEL	NOTES		
	ERV-1	2,200	450	0.033	440	24x30	5	ROOF HOOD	MOTORIZED	24"	GREENHECK	FGR-24x30	1		
	ERV-2	1,784	450	0.034	446	24x24	4	ROOF HOOD	MOTORIZED	24"	GREENHECK	FGR-24x24	1		
CIFICATION	N SECTION [23 33 00)] FOR ADDITIC	ONAL INFORMA	TION.	•				·						

LOUVER SCHEDULE

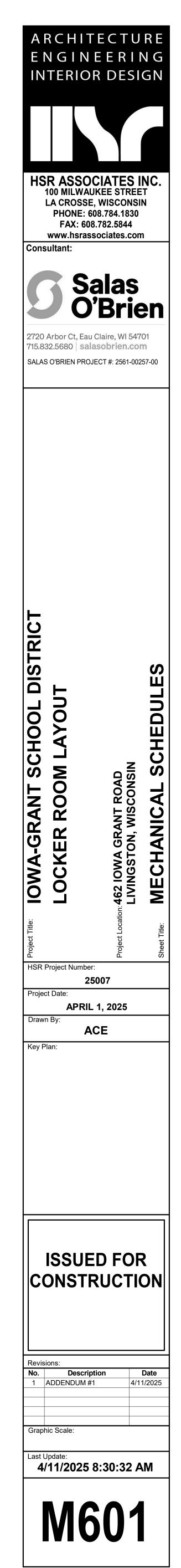
	1		1								
TAG	LOCATION	SERVICE	CFM	SIZE (W x H) (IN.)	FACE VELOCITY (FPM)	S.P. (IN. W.C.)	MIN. % FREE AREA	FINISH	MANUFACTURER	MODEL	NOTES
					. ,	. ,					
L-1	WEIGHT ROOM	ERV-1	2,000	48x32	344	0.018	55.0	APPROVED BY ARCHITECT	GREENHECK	ESD-635-48x32	1
L-2	EQUIPMENT STORAGE	ERV-2	1,500	40x32	314	0.015	55.0	APPROVED BY ARCHITECT	GREENHECK	ESD-635-40x32	1
FINISH TYPE:						•					
	MILL FINISH										
2	204 D4 SATIN ANODIZED	r									

2. 204-R1 SATIN ANODIZED 3. BAKED ENAMEL FINISH ON PRETREATED PRIME PAINT. STANDARD COLOR - SELECTION BY ARCHITECT.

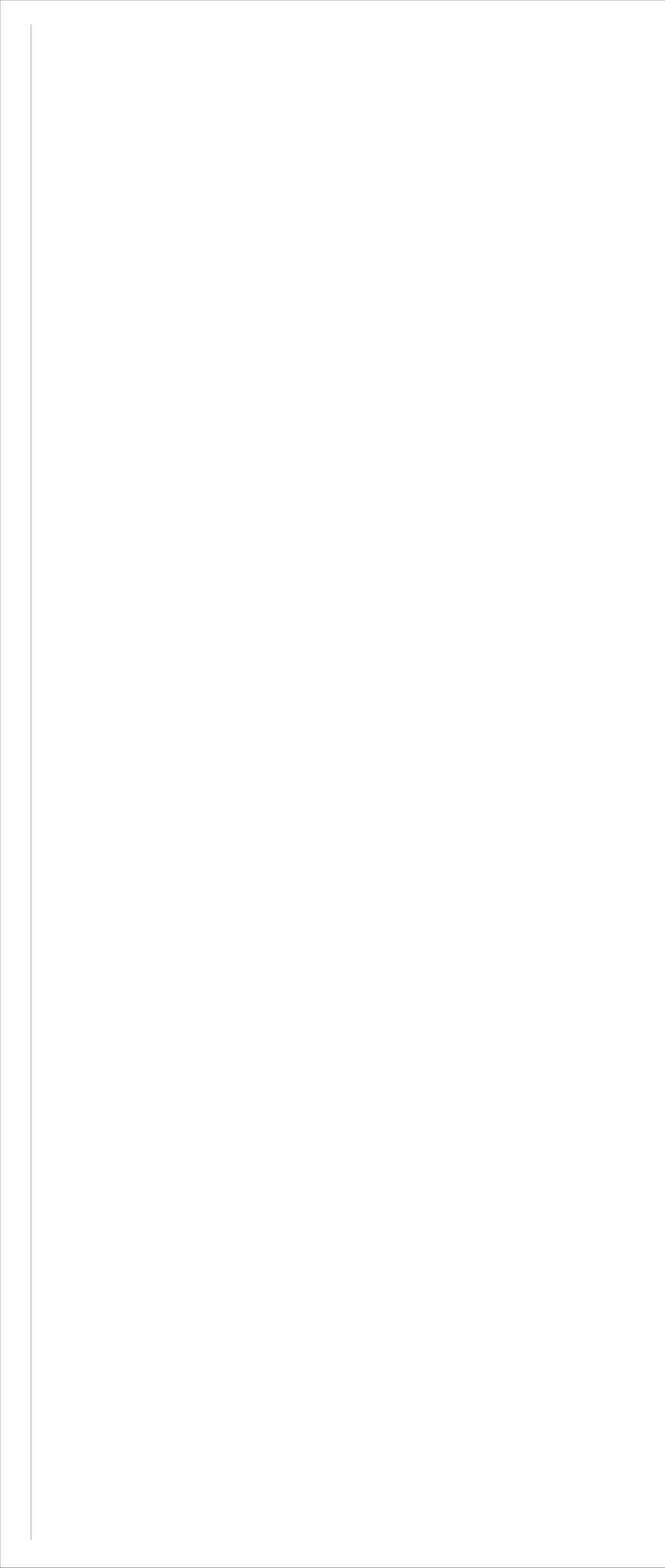
4. BAKED EPOXY FINISH ON PRIME COATED METAL. STANDARD COLOR - SELECTION BY ARCHITECT.

5. DURANODIC BRONZE - LIGHT, MEDIUM, DARK 6. PVDF (KYNAR 500, HYLAR 5000, OR DURANAR). STANDARD COLOR - SELECTION BY ARCHITECT.

NOTES: 1. SEE SPECIFICATION SECTION [23 33 00] FOR ADDITIONAL INFORMATION.



_____ ____≺ ENUM _____ _____ _____ _____ _____ _____ _____ ENUM _____ _____ _____ _____ ____≺ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____



GENERAL ELECTRICAL NOTES

- ALL WORK SHALL BE IN CONFORMANCE WITH NATIONAL, STATE, AND LOCAL CODES AND/OR ORDINANCES.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS & LOCAL UTILITY. E.C. SHALL CONTACT LOCAL UTILITY FOR EXACT SERVICE REQUIREMENTS TO INCLUDE BUT NOT LIMITED TO TRANSFORMER, METERING AND CABLING. LOCAL UTILITY REQUIREMENTS SUPERSEDE DRAWINGS AND SPECIFICATIONS.
- . SEE ARCHITECTURAL, MECHANICAL, & PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- 4. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO GIVE APPROXIMATE LOCATIONS AND OVERALL DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTS, MATERIALS, AND ELECTRICAL METHODS WHICH HAVE NOT BEEN SHOWN OR INDICATED BUT ARE REQUIRED FOR A COMPLETE SYSTEM TO THE STANDARDS OF THE INDUSTRY.
- INSTALL LIGHTING FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTING DEVICES FOR ADEQUATE SUPPORT OF FIXTURES FROM STRUCTURE.
- UPON COMPLETION OF THE ELECTRICAL WORK, THE INSTALLATION SHALL BE TESTED FOR CONTINUITY, GROUNDS, AND SHORT CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL DEMONSTRATE PROPER PERFORMANCE OF ALL SYSTEMS. ALL DEFECTIVE WORK OR MATERIALS SHALL BE REPLACED OR REPAIRED AS NECESSARY AND RETESTED.
- 7. ELECTRICAL RACEWAYS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED AS PER THE LOCAL BUILDING CODE.
- 8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A TEMPORARY ELECTRICAL SYSTEM FOR THE PROJECT. AT LEAST ONE 120 VOLT SINGLE PHASE RECEPTACLE SHALL BE PROVIDED FOR EACH 500 SQUARE FEET OF FLOOR SPACE. SUFFICIENT TEMPORARY LIGHTING SHALL BE PROVIDED TO ALLOW ALL CONTRACTORS TO COMPLETE THEIR WORK. TEMPORARY ELECTRICAL CIRCUITS SHALL BE EQUIPPED WITH COMBINATION GROUND FAULT INTERRUPTER AND CIRCUIT BREAKER PER NEC. TEMPORARY ELECTRICAL SYSTEM SHALL BE INCLUDED IN THIS BID. USAGE CHARGES SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.
- D. ELECTRICAL DEVICES/EQUIPMENT SHOWN AS DASHED AND BOLD ARE EXISTING TO BE REMOVED, ELECTRICAL DEVICES/EQUIPMENT SHOWN AS LIGHT AND SOLID ARE EXISTING TO REMAIN, AND ELECTRICAL DEVICES/EQUIPMENT SHOWN AS BOLD AND SOLID SHALL BE NEW.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN ONLY FOR COMMUNICATIONS DEVICES, INCLUDING 4" SQUARE, MINIMUM 2-1/8" DEEP BACKBOX WITH SINGLE GANG MUD RING AND 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING WITH 90 DEGREE BEND INTO THE ROOM AND PLASTIC BUSHING.
- 11. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED COSTS AND SCHEDULING OF REQUIRED ELECTRICAL INSPECTIONS.
- 12. ELECTRICAL CONTRACTOR SHALL SALVAGE DEVICES BEING REMOVED FOR SPECIALIZED SYSTEMS, INCLUDING BUT NOT LIMITED TO CARD READERS ALONG WITH ASSOCIATED EQUIPMENT, CAMERAS, AND ASSOCIATED EQUIPMENT. THESE ITEMS SHALL BE RETURNED TO THE OWNER.
- EC SHALL INCLUDE IN BID AN ALLOWANCE FOR OWNER TO ADD (6) RECEPTACLES DURING CONSTRUCTION WALK THROUGH. ASSUME NOT MORE THAN (1) NEW CIRCUITS. CIRCUITS WILL BE PULLED FROM THE NEAREST AVAILABLE NORMAL POWER PANEL.

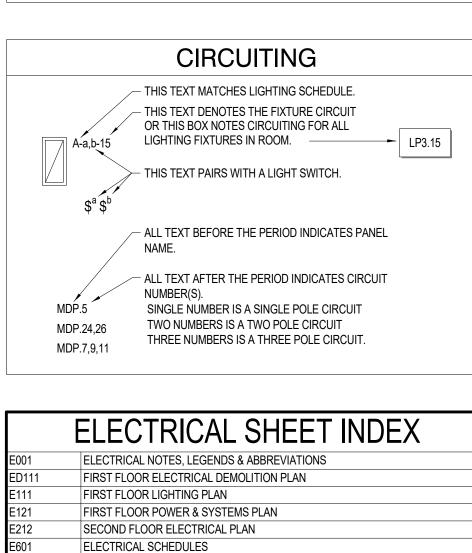
	ELECTRICAL RECEPTACLES		LIGHTING
	20A, 120V, 2P, 3W GROUNDING	FIXTURE T	YPE PER SCHEDULE
(((((((((((((((((((20A, 120V, 2P, 3W GROUNDING DUPLEX RECEPTACLE	A	TROFFER STYLE FIXTURE, TYPE AS NOTED
\bigoplus	QUADPLEX RECEPTACLE	SWITCH LEGS	
\square	GFCI RECEPTACLE		FIXTURE ON EMERGENCY POWER
♥♥♥₽	RECEPTACLE MTD. 6" ABOVE COUNTER OR HGT SHOWN		
HC	120V, 15A CLOCK OUTLET		STRIP LIGHT / SUSPENDED DIRECT/INDIRECT
	OMMUNICATIONS	0	SURFACE MTD FIXTURE
	TELEPHONE		PENDANT/SURFACE MTD UP/DOWN LIGHT
₹ ₹	TELEPHONE/DATA	-ф-	RECESSED/DOWNLIGHT FIXTURE
¥	DATA ONLY	- <u></u> -	WALL MOUNTED FIXTURE
+ ₹ ₹ ₹	COMMUNICATION DEVICE MTD. 6" ABOVE COUNTER OR HGT SHOWN	×	EXIT SIGN (ARROWS INDICATED AS SHOWN) - (SHADING INDICATES # OF FACES)
			CLG MTD EMERGENCY FIXTURE
WAP	WIRELESS ACCESS POINT	4	EMERGENCY FIXTURE
(SP)	CEILING MOUNTED SPEAKER		SWITCHING
⊢(SP)	WALL MOUNTED SPEAKER	\$	20A, 120/277V SPST SWITCH
VC		\$ ₃	20A, 120/277V 3-WAY SWITCH
		\$4	20A, 120/277V 4-WAY SWITCH
B \		\$ _D	DIMMER SWITCH
	POWER	\$κ	KEY OPERATED SWITCH
	PANEL BOARD	\$ _{MC}	MOMENTARY CONTACT SWITCH
	DISTRIBUTION PANEL BOARD	\$ _L	LOW VOLTAGE SWITCH
	DISCONNECT	\$ _{TO}	THERMAL OVERLOAD SWITCH
\square	FUSED DISCONNECT SWITCH	\$ _P	PILOT LIGHT
	EMERGENCY FUSED DISCONNECT SWITCH	\$ _{OR}	OCCUPANCY OVERRIDE SWITCH - DIS-ENGAGES OCCUPANCY SENSORS
T	TRANSFORMER		FOR PRESENTATIONS IN CONFERENCE ROOM
\boxtimes	MOTOR STARTER/CONTACTOR	OS a,b,c	CEILING MOUNTED OCCUPANCY SENSOR TEXT DENOTES SWITCH LEG(S) CONTROLLED
	COMBINATION MOTOR STARTER		BY SENSOR
H•	PUSH BUTTON STATION AS NOTED		FIRE ALARM
J	J-BOX		MANUAL PULL STATION 46" A.F.F. CENTER
\bigcirc	POWER CONNECTION		STROBE ONLY 84" A.F.F. TO CENTER 15CD, 30CD, 75CD, 110CD
\mathcal{A}	MOTOR CONNECTION		HORN/STROBE 84" A.F.F. TO CENTER 15CD, 30CD, 75CD, 110CD
		6	SMOKE DETECTOR — INDICATES ELEVATOR RECALL
		Ð	HEAT DETECTOR
		0	DUCT DETECTOR
		FB	FIRE BARRIER CONNECTION
		FS	SPRINKLER FLOW SWITCH
		TS	TAMPER FLOW SWITCH
		DH	MAGNETIC DOOR HOLD
		FACP	FIRE ALARM CONTROL PANEL
		FAAP	FIRE ALARM ANNUNCIATOR PANEL

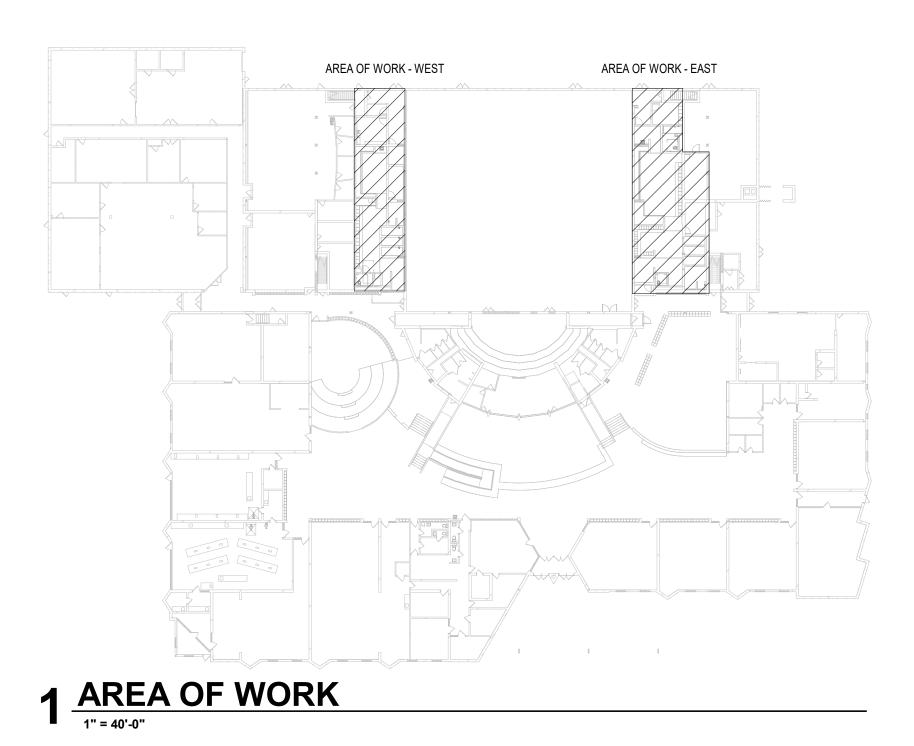
ELECTRICAL ABBREVIATIONS	
ALL ABBREVIATIONS MAY OR MAY NOT BE USED	

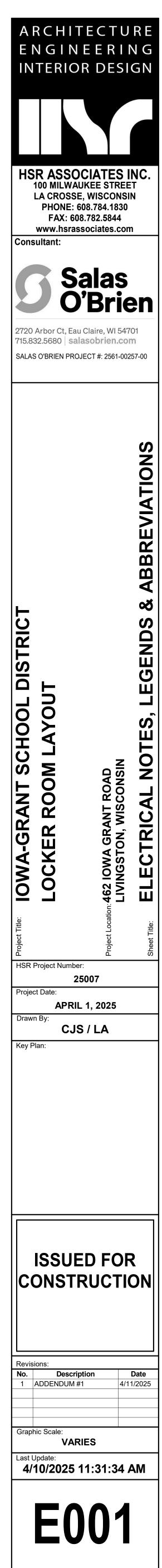
	-	-	
AC	ABOVE COUNTERTOP	MCA	MINIMUM CIRCUIT AMPS
AFF	ABOVE FINISH FLOOR	MDP	MAIN DISTRIBUTION PANEL
AFG	ABOVE FINISH GRADE	MTD	MOUNTED
ANNC	ANNUNICIATOR	NL	NIGHT LIGHT
CC	CONTROLS CONTRACTOR	000	OCCUPANCY
DED	DEDICATED CIRCUIT	PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR	PE	PHOTOELECTRIC CELL
EM	EMERGENCY	PNL	PANEL
EX	EXISTING	SPST	SINGLE POLE SINGLE THROW
EXR	EXISTING RELOCATED	тс	TIME CLOCK
GC	GENERAL CONTRACTOR	TCP	TIME CLOCK - PHOTOCELL
GFCI	GROUND FAULT CIRCUIT INTERRUPT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
IBC	INTERNATIONAL BUILDING CODE	UNO	UNLESS NOTED OTHERWISE
IG	ISOLATED GROUND	WP	WEATHER PROOF
HP	HORSEPOWER	20A	20 AMP
LV	LOW VOLTAGE	Ø	PHASE
MC	MECHANICAL CONTRACTOR	3W	3 WIRE
		20/1	20 AMP SINGLE PHASE

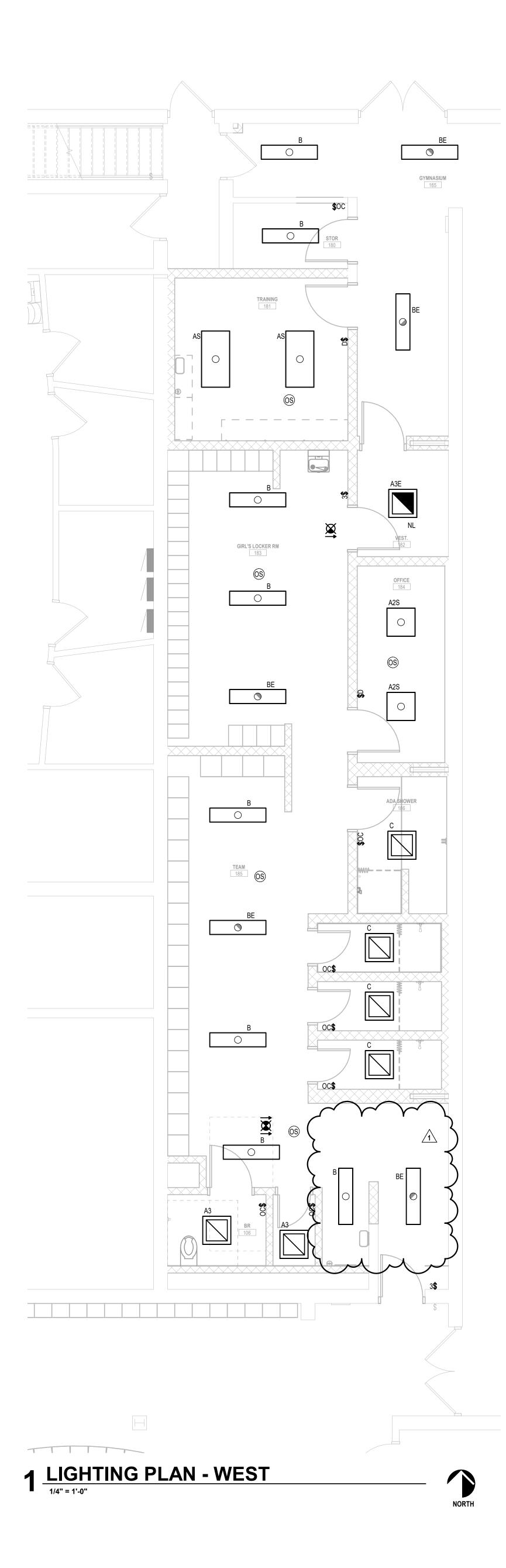
SYMBOL LINEWEIGHT LEGEND

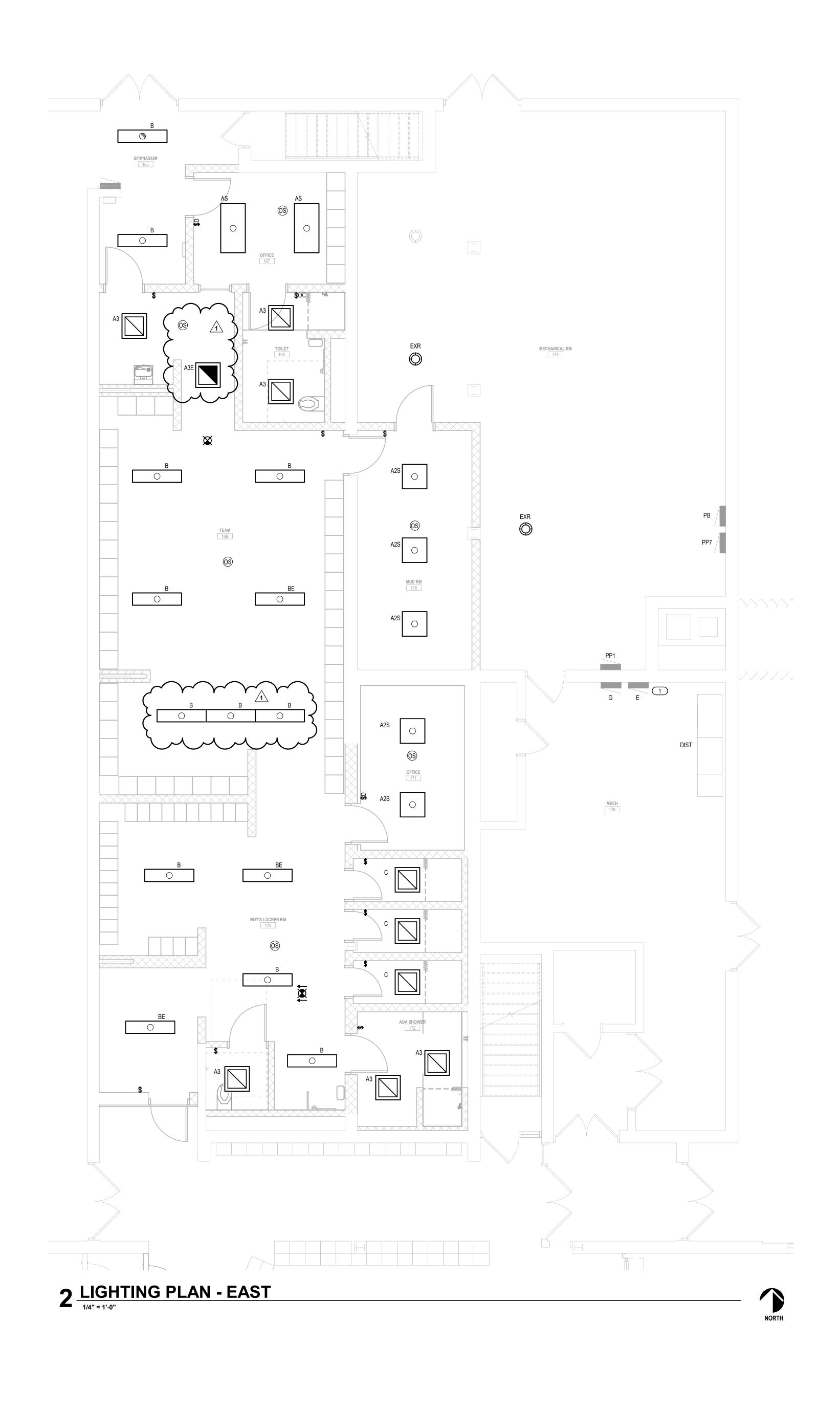
(f) = (f)	LIGHT SOLID LINES = EXISTING DEVICE(S) TO REMAIN
$(\overset{(h)}{\mathbb{T}},\checkmark)^{\prime}(\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T}},\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb{T},}\overset{(h)}{\mathbb$	HEAVY, DASHED LINES = EXISTING DEVICE(S) TO BE REMOVED
$(\bigcirc / \bigcirc) \bigcirc) \bigcirc) \bigcirc $	HEAVY, SOLID LINES = NEW DEVICE(S) TO BE INSTALLED







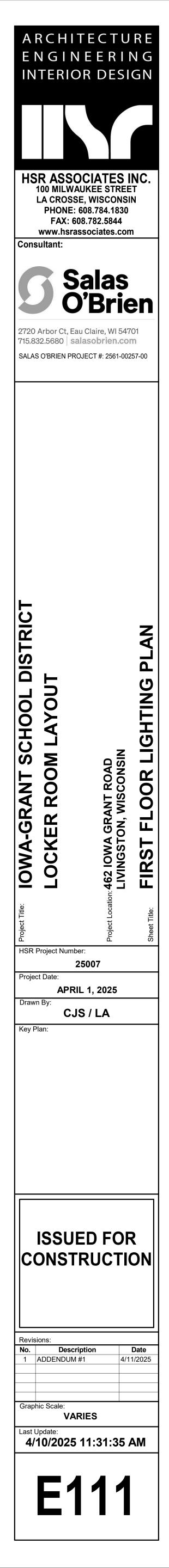


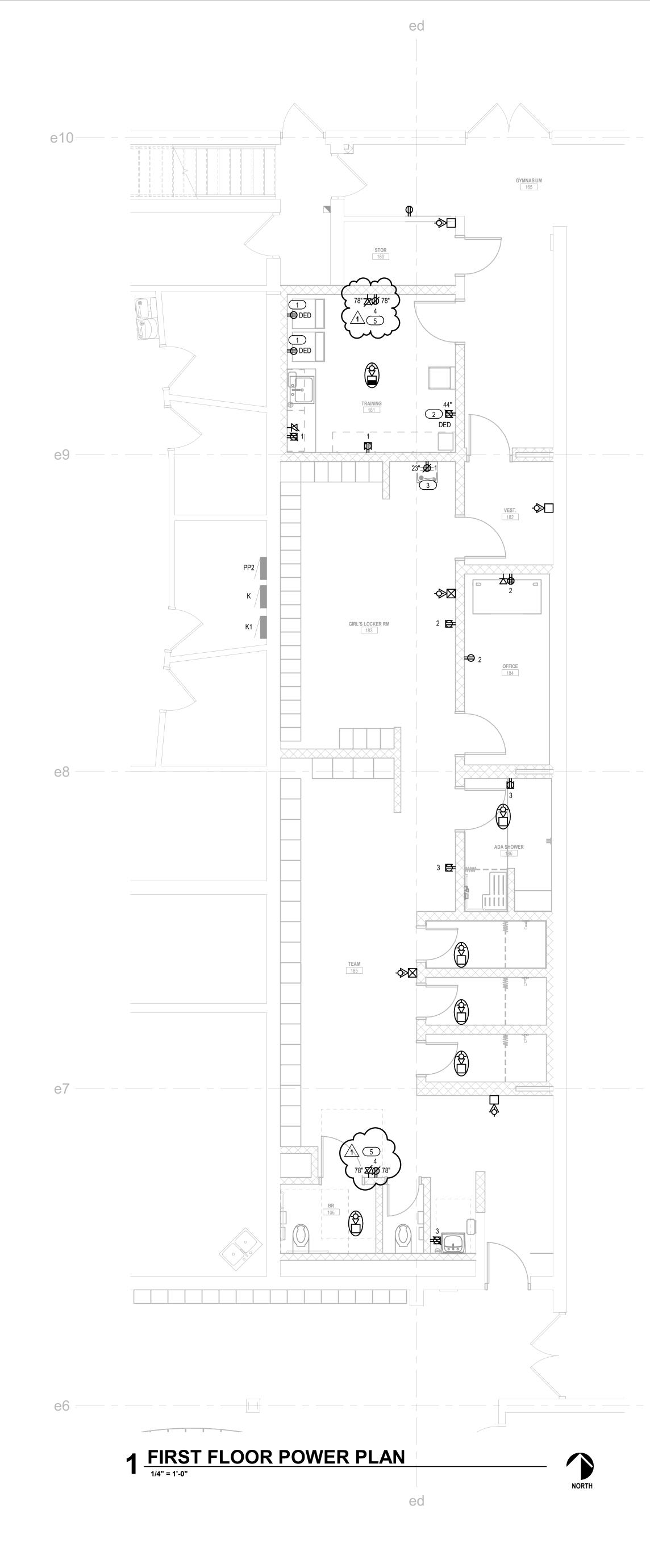


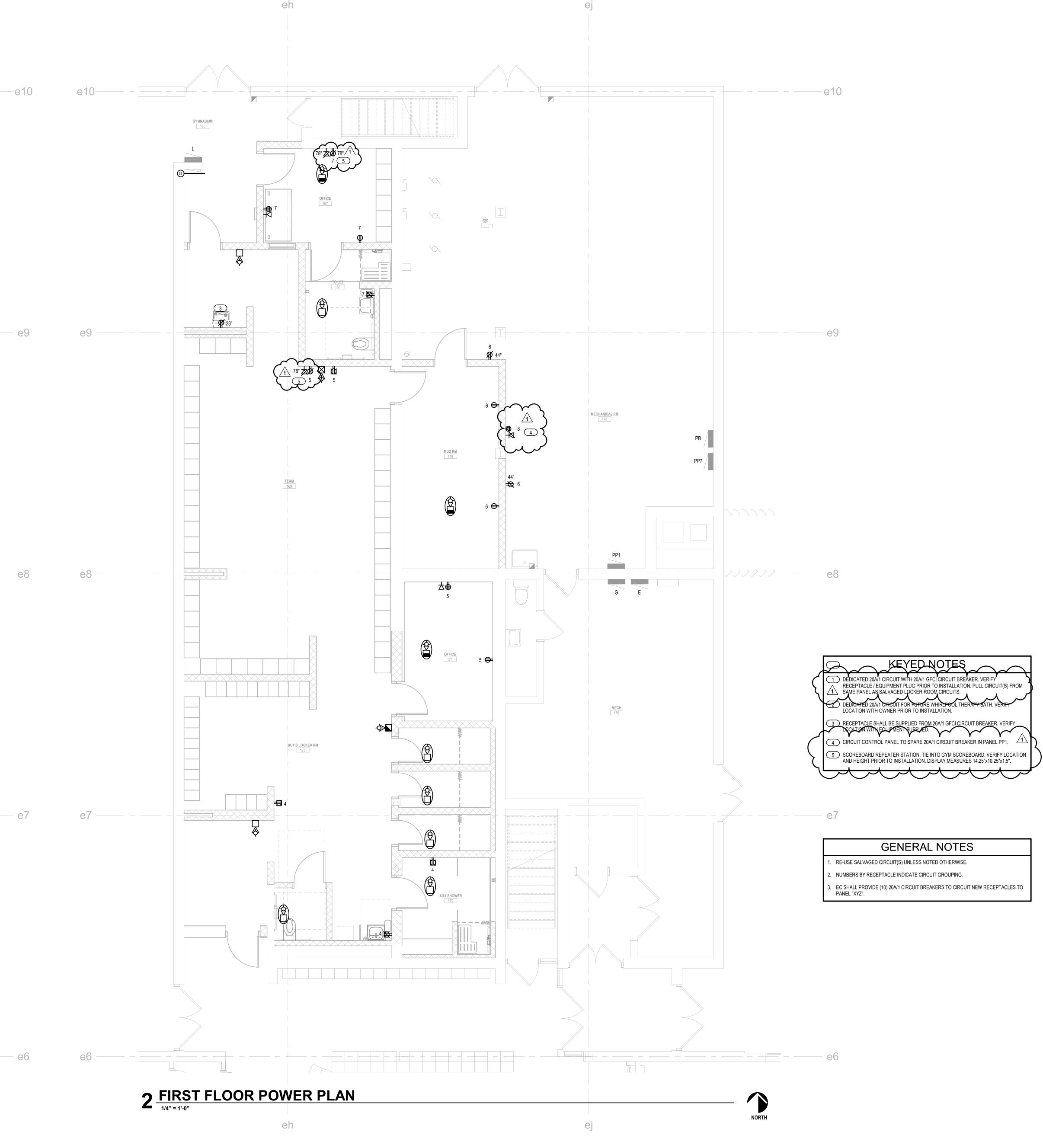
\bigcirc	KEYED NOTES
1	PROVIDE NEW 20A/1 CIRCUIT BREAKER FOR NEW EMERGENCY LIGHTING FIXTURES.

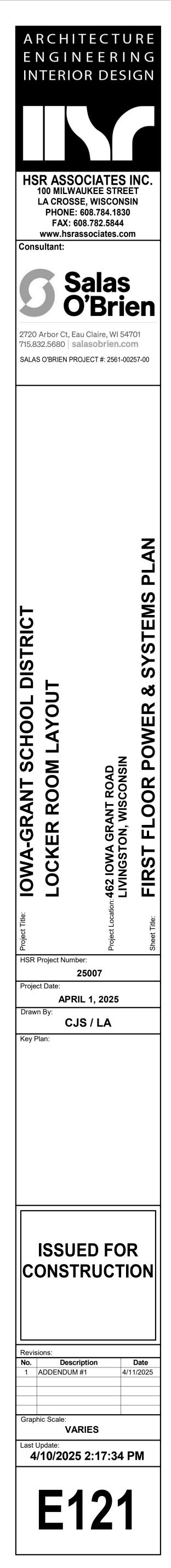
GENERAL NOTES

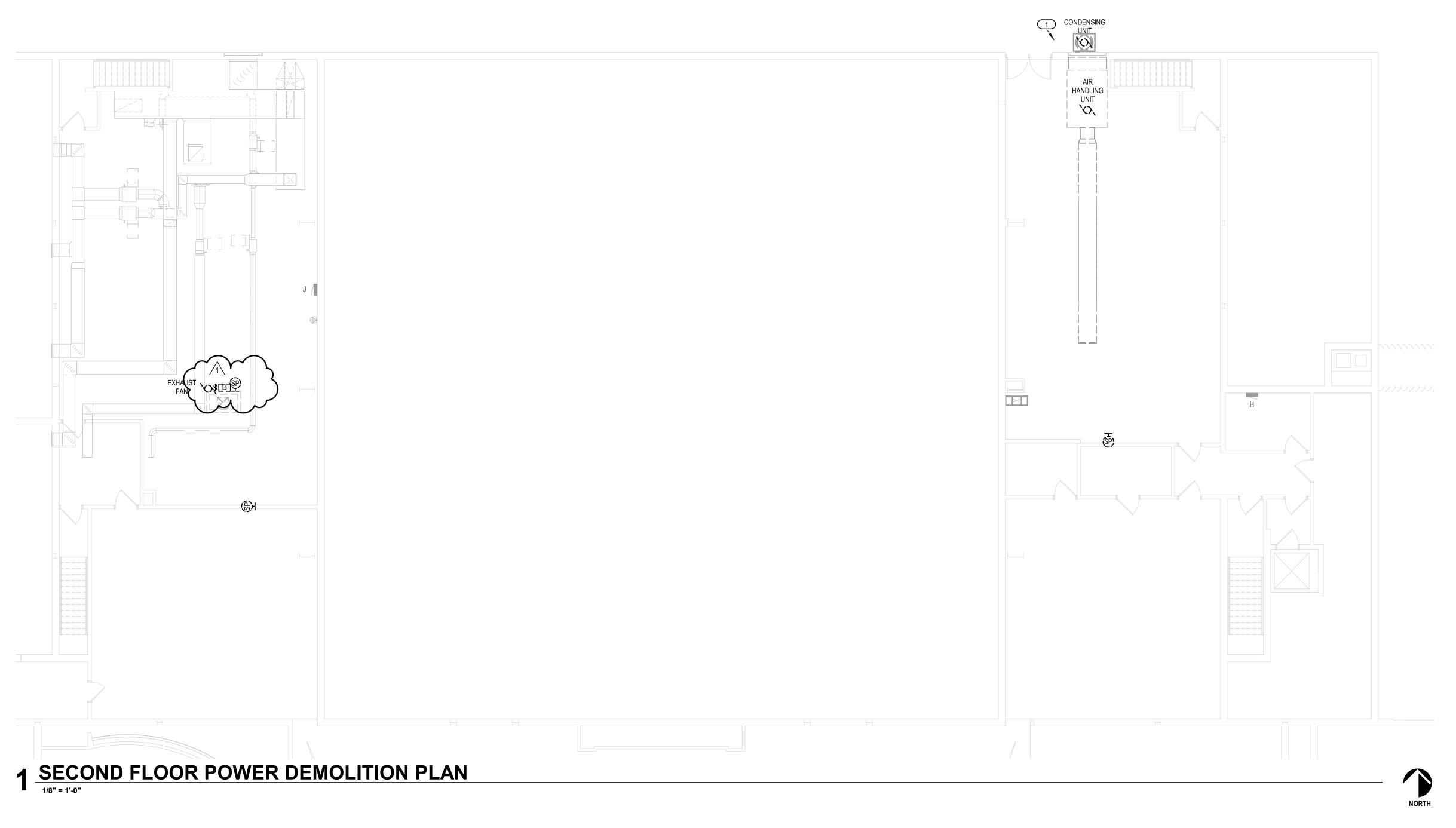
RE-USE SALVAGED CIRCUIT(S) UNLESS NOTED OTHERWISE.
 CIRCUIT EMERGECY LIGHTS AND EXIT SIGNAGE TO PANEL "E".

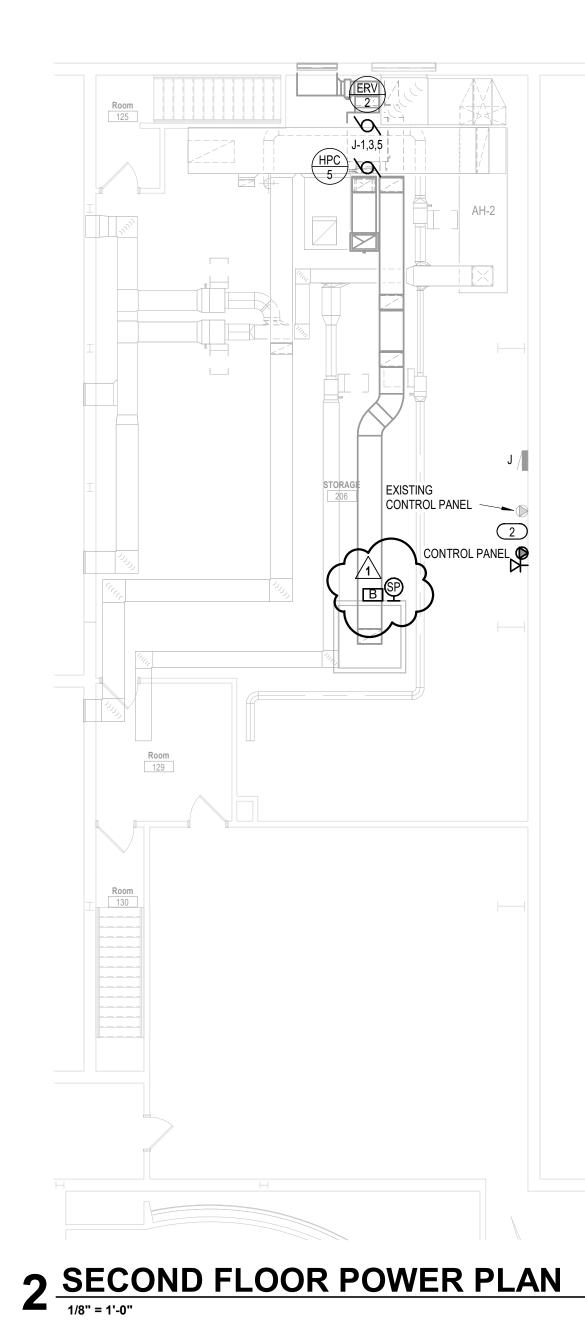


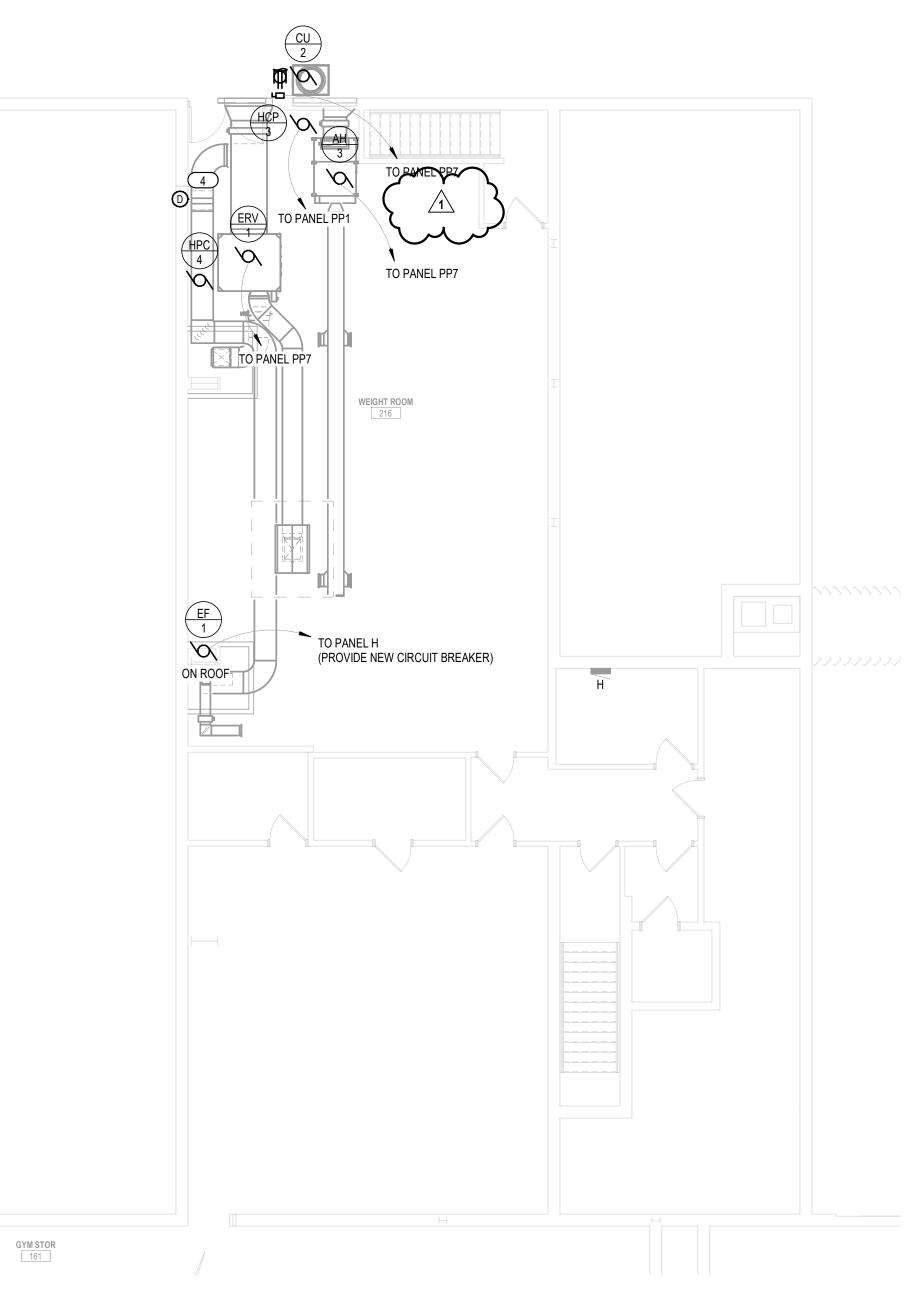












GYMNASIUM 117



