

ADDENDUM NO. 1

January 12, 2023

**DUNELAND BRUMMITT ELEMENTARY SCHOOL RENOVATIONS
Chesterton, IN 46304**

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated November 30, 2022 by Gibraltar Design. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 through ADD 1-2 and attached Addendum No. 1 from Gibraltar Design dated January 11, 2023 and consisting of 2 pages and 8 drawings.

A. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

Under 3.02 - General Requirements

1. Revise:

Clarification No. 2: Autodesk Build is replacing PlanGrid. Autodesk Build does not require users to purchase a license. Contractors will be invited to the project and required to use this tool. Autodesk Build will be used as the Current Set and As-Built Record Drawings. Additionally, it will be used to track Issues for Safety, QA/QC, Non-Compliance Issues, Work Completion List and Punch List. Autodesk Build along with the BIM Collaboration tool will facilitate overhead coordination and clash detection. Contractors shall participate and provide BIM Models of their work to facilitate this coordination.

B. SPECIFICATION SECTION 01 29 00 - PAYMENT APPLICATIONS

Under 1.03 - Applications for Payment

1. **Revise:**

H. Monthly Application for Payment: Contractors should be current on all aspects of the project. Payment should only be allowed for approved change orders and allowance authorizations. In addition, contractor shall be current on all responsibilities to include:

1. Submittals
2. Schedule
3. RFP responses
4. Autodesk Build Issues
5. Daily Cleaning
6. As Built mark ups in Autodesk Build

C. SPECIFICATION SECTION 01 77 00 - CLOSEOUT

Under 3.03 - Project Record Documents

1. **Revise:**

A. Project Record Documents include drawings, project manuals, addenda, changes, and submittals. Contractors shall maintain As-Built conditions in Autodesk Build which will become Project Record Drawings.

ADDENDUM ONE

Addendum One (AD.01) to the drawings and specifications prepared by Gibraltar Design for **Brummitt Elementary School Renovations** for Duneland School Corporation, Chesterton, Indiana.

All Contractors bidding on this project shall read all of the items covered below and shall comply with all of the requirements as set forth, including any necessary refinements or additions generated by this Addendum and required by the intent of the original contract documents. All Contractors shall acknowledge on their bid form that they have received this Addendum and include the appropriate content of same within their bid proposal.

SPECIFICATIONS

1. Specification Section 10 11 00 **Markerboards & Corkboards**

- A. Claridge Aspire Marker/Projection Boards is hereby approved to bid Markerboards and Projectable Markerboards for this project. All requirements of the Drawings and Specifications shall be met, including the color selections.

DRAWINGS

2. Sheet A-601

- A. Refer to revised full size drawings, included in this Addendum, for the following revisions:
 - 1. Add glazing markings to door elevations where noted.
 - 2. Add general door notes M and N.

3. Sheet FP-001

- A. Refer to revised full size drawings, included in this Addendum, for the following revisions:
 - 1. Revisions to the Fire Protection Service Diagram and general notes.

4. Sheet P-001

- A. Refer to revised full size drawings, included in this Addendum, for the following revisions:
 - 1. Revisions to Plumbing Equipment Schedule.

5. Sheet PD-101

- A. Refer to revised full size drawings, included in this Addendum, for the following revisions:
 - 1. Revisions in Boiler Room A-128 and Storage A-129.

6. Sheet P-101

- A. Refer to revised full size drawings, included in this Addendum, for the following

revisions:

1. Plumbing revisions in Storage A-157.

7. Sheet P-111

A. Refer to revised full size drawings, included in this Addendum, for the following revisions:

1. Revisions in Storage A-157 and Mechanical A-156.

8. Sheet P-501

A. Refer to revised full size drawings, included in this Addendum, for the following revisions:

1. Revisions to the Incoming Domestic Water Service Diagram and the Tankless Water Heater Diagram.

9. Sheet P-502

A. Refer to revised full size drawings, included in this Addendum, for the following revisions:

1. Revisions to Riser Diagram.

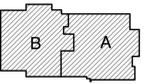
Pages 1 through 2 inclusive, Eight (8) Full-Size Drawings, constitute the total makeup of **Addendum One**.





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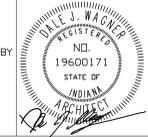
PROJECT
**BRUMMITT
ELEMENTARY
SCHOOL -
RENOVATIONS**
DUNELAND SCHOOL CORPORATION
CHESTERTON, INDIANA



KEY PLAN

GIBRALTAR DESIGN
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Indianapolis, IN 46260
Homepage: www.GibraltarDesign.com
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PROJECT
21-136
DATE
11/30/22
COORDINATED BY
DJW
DRAWN BY
JMG
CHECKED BY
DJW



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REVISIONS
MARK DATE ISSUED FOR
AD-1 01/11/23 ADDENDUM NO. 1

DRAWING
**DOOR SCHEDULE, FRAME
PROFILES, ELEVATIONS, AND
DETAILS**

PROJECT
BRUMMITT ES - RENOVATIONS

© GIBRALTAR DESIGN SHEET
A-601

DOOR AND FRAME SCHEDULE

NO	DESCRIPTION	TYPE	DOOR SIZE (WxH) (INCHES)	MATERIAL	LOU	GLASS			FRAME			ELEV	LABEL	EXIT DEVICE	CLOSER	NOTES		
						DOOR	TRA	MAT'L	WIDTH	JAMB	HEAD						SILL	
B-135A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	
B-136A	DOUBLE	5	PR 36 x 84	AL	---	B	B	B	AL	4 1/2"	SEE ELEV	SEE ELEV	SEE ELEV	SF4	---	YES	YES	1,2,4,5,6
B-136B	DOUBLE	5	PR 36 x 84	AL	---	A	A	A	AL	4 1/2"	SEE ELEV	SEE ELEV	SEE ELEV	SF5	---	DUMMY	YES	---
B-137A	SINGLE	1	36 x 84	WD	---	---	---	---	HM	5 3/4"	J2	H2	---	---	---	---	---	---
B-141A	SINGLE	1	36 x 84	WD	---	---	---	---	HM	5 3/4"	J2	H2	---	---	---	---	---	---
B-142A	DOUBLE	5	PR 36 x 84	AL	---	B	B	B	AL	4 1/2"	SEE ELEV	SEE ELEV	SEE ELEV	SF4	---	YES	YES	1,2,4,5,6
B-142A	DOUBLE	5	PR 36 x 84	AL	---	A	A	A	AL	4 1/2"	SEE ELEV	SEE ELEV	SEE ELEV	SF5	---	DUMMY	YES	---
B-143A	SINGLE	1	36 x 84	WD	---	---	---	---	HM	8 3/8"	J2	H2	---	---	---	YES	---	---
B-144A	SINGLE	1	36 x 84	WD	---	---	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---
B-146A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	0"	---	---	---	EXIST	---	---	---	---
B-147A	SINGLE	5	36 x 84	AL	---	B	B	---	AL	4 1/2"	J2	H2	---	---	---	YES	YES	1,2,4,6
B-148A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---
B-149A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---
B-150A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---
B-151A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---
B-152A	SINGLE	5	36 x 84	AL	---	B	B	---	AL	4 1/2"	J2	H2	---	---	---	YES	YES	1,2,4,6
B-153A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---
B-154A	SINGLE	1	36 x 84	WD	---	---	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---
B-155A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---
B-157A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---
B-158A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---

DOOR AND FRAME SCHEDULE

NO	DESCRIPTION	TYPE	DOOR SIZE (WxH) (INCHES)	MATERIAL	LOU	GLASS			FRAME			ELEV	LABEL	EXIT DEVICE	CLOSER	NOTES			
						DOOR	TRA	MAT'L	WIDTH	JAMB	HEAD						SILL		
A-101A	SINGLE	3	36 x 84	WD	---	E	E	---	AL	4 1/2"	SEE ELEV	SEE ELEV	SEE ELEV	SF2	---	---	YES	1,2,6	
A-101B	SINGLE	3	36 x 84	WD	---	A	A	---	HM	8 3/8"	SEE ELEV	SEE ELEV	SEE ELEV	HM2	---	---	YES	1,2,6	
A-101C	BORROWED LIGHT	---	36 x 52	---	---	---	---	---	AL	4 1/2"	SEE ELEV	SEE ELEV	SEE ELEV	SF3	---	---	---	---	
A-102A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
A-102AA	SINGLE	1	36 x 84	WD	---	---	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
A-102B	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	YES	---
A-104A	SINGLE	1	36 x 84	WD	---	---	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	YES	---
A-105A	SINGLE	1	36 x 84	WD	---	---	---	---	HM	5 3/4"	J2	H2	---	---	---	---	---	---	
A-107A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	YES	---
A-108A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
A-108B	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
A-109A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
A-109B	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
A-110A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
A-112A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	0"	---	---	---	EXIST	---	---	---	---	
A-113A	SINGLE	2	36 x 84	WD	---	E	---	---	HM	7 1/8"	J2	H2	---	---	---	---	---	---	
A-115A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	5 3/4"	J2	H3	---	---	---	---	---	---	
A-122A	SINGLE	1	36 x 84	WD	---	---	---	---	HM	7 1/8"	J2	H2	---	---	---	---	---	---	
A-140A	SINGLE	5	36 x 84	AL	---	B	B	---	AL	4 1/2"	J2	H2	---	---	---	YES	YES	1,2,4,6	
A-141A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
A-142A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
A-143A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
A-143AA	SINGLE	1	36 x 84	WD	---	---	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
A-143B	BORROWED LIGHT	---	24 x 52	---	---	A	---	---	HM	8 3/8"	SEE ELEV	SEE ELEV	SEE ELEV	HM3	---	---	---	---	
A-144A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
A-146A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
A-146B	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
A-146C	SINGLE	1	36 x 84	WD	---	---	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	YES	---
A-148A	SINGLE	1	36 x 84	WD	---	---	---	---	HM	7 1/8"	J2	H2	---	---	---	---	---	YES	---
A-150A	SINGLE	1	36 x 84	WD	---	---	---	---	HM	8 3/8"	J2	H3	---	---	---	---	---	YES	---
A-153A	SINGLE	1	36 x 84	WD	---	---	---	---	HM	9 1/8"	J2	H2	---	---	---	---	---	YES	---
A-155A	SINGLE	1	36 x 84	WD	---	---	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	YES	---
B-103A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	9 1/8"	J2	H2	---	---	---	---	---	YES	---
B-105A	SINGLE	2	36 x 84	WD	---	E	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	YES	1,2,6
B-108B	BORROWED LIGHT	---	42 x 52	---	---	A	---	---	HM	8 3/8"	SEE ELEV	SEE ELEV	SEE ELEV	HM4	---	---	---	---	
B-116A	SINGLE	1	36 x 84	WD	---	---	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
B-117A	SINGLE	1	36 x 84	WD	---	---	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
B-118A	DOUBLE	---	34 x 52	---	---	---	---	---	EXIST	0"	---	---	---	---	---	---	---	7	
B-121A	SINGLE	5	36 x 84	AL	---	B	B	---	AL	4 1/2"	J2	H2	---	---	---	YES	YES	1,2,4,6	
B-122A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
B-123A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
B-123B	BORROWED LIGHT	---	24 x 52	---	---	A	---	---	HM	8 3/8"	SEE ELEV	SEE ELEV	SEE ELEV	HM3	---	---	---	---	
B-124A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
B-125A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
B-126A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
B-126B	BORROWED LIGHT	---	24 x 52	---	---	A	---	---	HM	8 3/8"	SEE ELEV	SEE ELEV	SEE ELEV	HM3	---	---	---	---	
B-127A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
B-129A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	0"	---	---	---	EXIST	---	---	---	---	
B-131A	SINGLE	5	36 x 84	AL	---	B	B	---	AL	4 1/2"	J2	H2	---	---	---	YES	YES	1,2,4,6	
B-132A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
B-133A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	
B-134A	SINGLE	2	36 x 84	WD	---	A	---	---	HM	8 3/8"	J2	H2	---	---	---	---	---	---	

GENERAL DOOR NOTES:
A. JAMB, HEAD, AND SILL DO NOT SHOW WALL CONSTRUCTION. SEE FLOOR PLAN FOR WALL MATERIALS. REFER TO A800 SERIES DRAWINGS FOR WALL FINISHES.
B. SEAL ALL JAMBS AND HEADS WHERE FRAMES MEET EXPOSED MASONRY AND/OR GYPSUM BOARD.
C. PROVIDE A SCRIBE MOLD AT ALL EXTERIOR DOOR FRAMES AND WHERE NOTED ON DRAWINGS. SCRIBE MOLD TO BE 3/4" X 3

PLUMBING FIXTURE SCHEDULE

TAG NO.	FIXTURE/EQUIPMENT TYPE	FIXTURE/EQUIPMENT DESCRIPTION	FIXTURE/EQUIPMENT MANUFACTURER AND MODEL NO.	ACCEPTABLE MANUF.	FIXTURE VALVE/FAUCET TYPE	FIXTURE VALVE/FAUCET TYPE	ACCEPTABLE MANUF.	ACCESSORIES/REMARKS
								(SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)
WC-1	WATER CLOSET	VITREOUS CHINA, WALL MOUNTED ADA	AMERICAN STANDARD 2251J01	NOTE 1	BATTERY SENSOR FLUSH VALVE, 1/6 GPF	AMERICAN STANDARD 6065161002	NOTE 1	AMERICAN STANDARD 5301U00 SEAT
WC-2	WATER CLOSET	VITREOUS CHINA, WALL MOUNTED	AMERICAN STANDARD 2251J01	NOTE 1	BATTERY SENSOR FLUSH VALVE, 1/6 GPF	AMERICAN STANDARD 6065161002	NOTE 1	AMERICAN STANDARD 5301U00 SEAT
WC-3	WATER CLOSET	VITREOUS CHINA, WALL MOUNTED ADA KINDERGARTEN	AMERICAN STANDARD 3351J01	NOTE 1	BATTERY SENSOR FLUSH VALVE, 1/6 GPF	AMERICAN STANDARD 6065161002	NOTE 1	AMERICAN STANDARD 5301U00 SEAT, CHAIR CARRIER EQUIVALENT TO ZURN Z1212
UR-1	URINAL	VITREOUS CHINA, WALL MOUNTED, ADA	AMERICAN STANDARD 6590J01	NOTE 1	BATTERY SENSOR FLUSH VALVE, 0.125 GPF	AMERICAN STANDARD 6064013001	NOTE 1	-
L-1	LAVATORY	VITREOUS CHINA, WALL MOUNTED, 20"x18" ADA	AMERICAN STANDARD 0355J02	NOTE 1	0.5 GPM-BATTERY SENSOR, 4" CENTERS	AMERICAN STANDARD 6055B205	NOTE 2	PROVIDED WITH THERMOSTATIC MIXING VALVE, MCGUIRE PU-2150-UC 1-1/2" PROURAP, MCGUIRE H216TCCLK SUPPLIES, LAVATORY CHAIR CARRIER EQUIVALENT TO ZURN Z1212Z
FD-1	FLOOR DRAIN	CAST IRON BODY, ADJUSTABLE 6"x6" NICKEL BRONZE TOP	ZURN Z4150	NOTE 3	-	-	-	VANDALPROOF SCREWS
FD-2	FLOOR DRAIN	CAST IRON BODY, 8-1/4" DIA. CAST IRON TOP	ZURN Z5200	NOTE 3	-	-	-	SECONDARY STRAINER
FS-1	FLOOR SINK	CAST IRON, 8" DEEP, ACID RESISTING, 12"x12" TOP	ZURN ZN1301-4NH-15-32	NOTE 3	-	-	-	ALUMINUM DOME STRAINER, SECURED HINGED GRATE, SLOPED RIM, TOP TO BE MOUNTED FLUSH WITH FLOOR
S-1	SINK	1-COMPARTMENT STAINLESS STEEL SINK, 22"x15-1/2"x5"	ELKAY LRADQ 221950	NOTE 4	TWO HANDLE, 4" GOOSENECK, 15 GPM	ELKAY LK406GN04T4	NOTE 5	ELKAY P35 STRAINER, MCGUIRE P3-0912-C8DF P-TRAP, MCGUIRE H216TCCLK SUPPLIES
S-2	SINK	1-COMPARTMENT STAINLESS STEEL SINK, 15"x17-1/2"x5"	ELKAY LRAD151050	NOTE 4	TWO HANDLE, 4" GOOSENECK, 15 GPM	ELKAY LK406GN04T4	NOTE 5	ELKAY P35 STRAINER, MCGUIRE P3-0912-C8DF P-TRAP, MCGUIRE H216TCCLK SUPPLIES
S-3	SINK	TWO COMPARTMENT STAINLESS STEEL SINK, 29"x18"x5"	ELKAY LRAD 291850	NOTE 4	TWO HANDLE, 8" GOOSENECK, 15 GPM	ELKAY LK406GN08T4	NOTE 5	(2) ELKAY P35 STRAINER, ELKAY 4L-K-53 DRAIN ASSEMBLY, MCGUIRE H216TCCLK SUPPLIES
S-4	SINK	TWO COMPARTMENT STAINLESS STEEL SINK, 33"x19-1/2"x5"	ELKAY LRAD 331950	NOTE 4	TWO HANDLE, 8" GOOSENECK, 15 GPM	ELKAY LK406GN08T4	NOTE 5	(2) ELKAY P35 STRAINER, ELKAY 4L-K-53 DRAIN ASSEMBLY, MCGUIRE H216TCCLK SUPPLIES, PLASTER TRAP
S-5	SINK	1-COMPARTMENT STAINLESS STEEL SINK, 15"x15"x6-1/8"	ELKAY BLR 15601	NOTE 4	TWO HANDLE, 4" GOOSENECK, 15 GPM	ELKAY LK406GN04T4	NOTE 5	ELKAY P35 STRAINER, MCGUIRE P3-0912-C8DF P-TRAP, MCGUIRE H216TCCLK SUPPLIES
TW-1	TEMPERED WATER VALVE	TEMPERED WATER VALVE	BRADLEY 859-4000A	NOTE 6	-	-	-	VALVE RATED AT 2 GPM @ 5 PSI PRESSURE DROP (MIN. FLOW 0.2 GPM)
MB-1	MOP BASIN	24x24x10 HIGH DENSITY COMPOSITE MOP BASIN	ZURN Z1996-24	NOTE 7	WALL MOUNTED SERVICE FAUCET	ZURN Z84314	NOTE 8	W/ 3/4" HOSE THREAD, VACUUM BREAKER, WALL BRACE

NOTE 1: AMERICAN STANDARD, KOHLER, ZURN, SLOAN, TOTO
 NOTE 1: ZURN, DELTA, SLOAN, CHICAGO FAUCET CO., AMERICAN STANDARD, KOHLER
 NOTE 3: ZURN, JOSEPH, JR., SMITH, MIFAB, WADE, WATTS
 NOTE 4: ELKAY, JUST, KOHLER
 NOTE 5: ELKAY, ZURN, DELTA, SLOAN, CHICAGO FAUCET CO., AMERICAN STANDARD, KOHLER
 NOTE 6: LEONARD, POWERS, LAULLER, BRADLEY, SYMMONS
 NOTE 7: ZURN, FIAT, MUSTEE, SWAN, AGORN
 NOTE 8: ZURN, DELTA, T40 BRASS, CHICAGO FAUCET CO.

PLUMBING EQUIPMENT SCHEDULE

TAG NO.	FIXTURE/EQUIPMENT TYPE	FIXTURE/EQUIPMENT DESCRIPTION	FIXTURE/EQUIPMENT MANUFACTURER AND MODEL NO.	ACCEPTABLE MANUF.	ACCESSORIES/REMARKS (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)	ELECTRICAL DATA							
						HP	MCA	FLA	AMPS	MOCP	VOLT	PH	HZ
EWC-1	ELECTRIC WATER COOLER	ELECTRIC WALL MOUNTED, W/BOTTLE FILLER	ELKAY L2308LP	NOTE 1	-	-	-	5	-	-	120	1	60
TWH-1	TANKLESS WATER HEATER	199 MBH, 4.3 GPM @ 90 DEGREE RISE (GAS FIRED), 96% EFFICIENT	NAVIENT NFE-24062	NOTE 5	ISOLATION KIT, TEMP. RELIEF VALVE, DRAIN VALVE AND CONDENSATE PIPED TO FLOOR DRAIN	-	-	-	-	-	120	1	60
TWH-2	TANKLESS WATER HEATER	199 MBH, 4.3 GPM @ 90 DEGREE RISE (GAS FIRED), 96% EFFICIENT	NAVIENT NFE-24062	NOTE 5	ISOLATION KIT, TEMP. RELIEF VALVE, DRAIN VALVE AND CONDENSATE PIPED TO FLOOR DRAIN	-	-	-	-	-	120	1	60
TWH-3	TANKLESS WATER HEATER	199 MBH, 4.3 GPM @ 90 DEGREE RISE (GAS FIRED), 96% EFFICIENT	NAVIENT NFE-24062	NOTE 5	ISOLATION KIT, TEMP. RELIEF VALVE, DRAIN VALVE AND CONDENSATE PIPED TO FLOOR DRAIN	-	-	-	-	-	120	1	60
AD-1 WH-1	WATER HEATER (KITCHEN)	120 MBH, 15 GPM @ 120F, 60 GAL. STORAGE	A. O. SMITH BTH-120	NOTE 2	TEMP. RELIEF VALVE, DRAIN VALVE PIPED TO FLOOR DRAIN	-	-	-	-	-	120	1	60
DBP-1	DOMESTIC BOOSTER PUMP	130 GPM @ 91 PSI DISCHARGE W/ SUCTION @ 30 PSI	METROPOLITAN M10-MT111-13DF-PH1-91	NOTE 3	W/ 120 GAL. HYDROPNEUMATIC TANK, 3" SUCTION/ 3" DISCHARGE, (30 GPM @ 15' TDH EA. PUMP) 200' MIN. SHUT-OFF HEAD	(2)	1.5	-	-	-	480	3	60
WS-1	WATER SOFENTER	(EACH) CONT. FLOW 82 GPM, PEAK FLOW 109 GPM	CULLIGAN CTM-600-FF	-	PROVIDED WITH BRINE TANK - 39" RD, 48" HIGH	-	-	-	-	-	115	1	60
RCP-1	RECIRCULATION PUMP	9 GPM @ 21' HEAD, ALL BRONZE CONSTRUCTION	BELL 4 G088ETT PL-36	NOTE 4	WITH STRAP ON AQUASTAT	1/6	-	-	-	-	120	1	60
RCP-2	RECIRCULATION PUMP	1 GPM @ 5' HEAD, ALL BRONZE CONSTRUCTION	BELL 4 G088ETT PL-30	NOTE 4	WITH STRAP ON AQUASTAT	1/12	-	-	-	-	120	1	60

NOTE 1: ELKAY, OASIS, HAUS, SUNROC
 NOTE 2: STATE, LOCHINVAR, A.O. SMITH
 NOTE 3: BELL 4 G088ETT, AMT, METROPOLITAN
 NOTE 4: BELL 4 G088ETT, TACO, METROPOLITAN
 NOTE 5: NORITZ, NAVIENT, INTELLIHOT, LOCHINVAR



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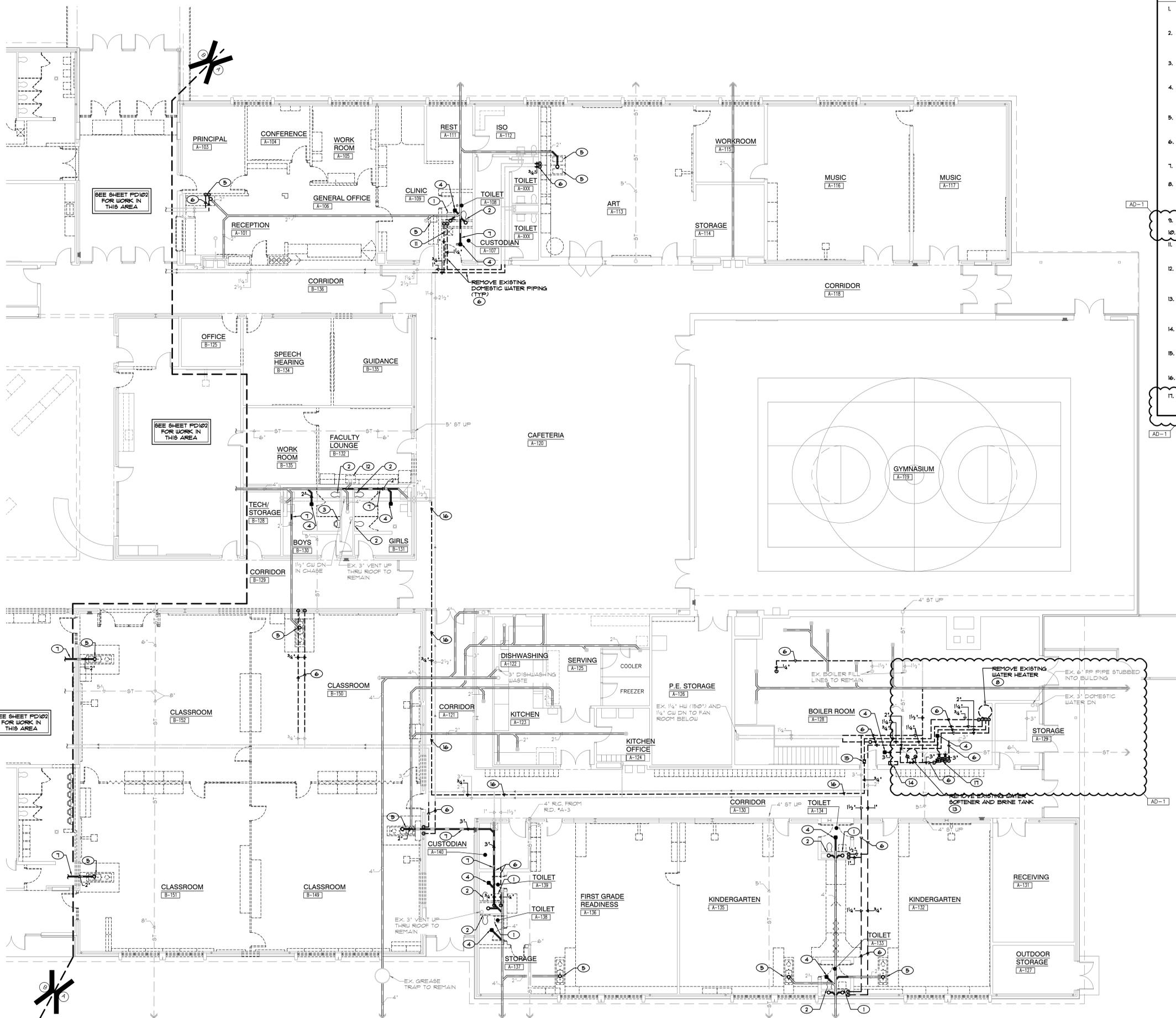
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DRAWING
PLUMBING SCHEDULES

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- ### SHEET NOTES
1. REMOVE EXISTING LAVATORY AND FAUCET AND ALL ASSOCIATED HOT/COLD WATER, SANITARY AND VENT PIPING COMPLETE AS REQUIRED.
 2. REMOVE EXISTING WATER CLOSET AND FLUSH VALVE, MODIFY ALL ASSOCIATED COLD WATER, SANITARY AND VENT PIPING FOR NEW PLUMBING FIXTURE COMPLETE AS REQUIRED.
 3. REMOVE EXISTING URINAL AND FLUSH VALVE AND ALL ASSOCIATED COLD WATER, SANITARY AND VENT PIPING COMPLETE AS REQUIRED.
 4. REMOVE EXISTING FLOOR DRAIN, ALL ASSOCIATED VENT PIPING AND SANITARY PIPING BELOW FLOOR TO BE MODIFIED FOR NEW PLUMBING FIXTURE COMPLETE AS REQUIRED.
 5. REMOVE EXISTING SINK AND FAUCET AND ALL ASSOCIATED HOT/COLD WATER, SANITARY AND VENT PIPING COMPLETE AS REQUIRED.
 6. REMOVE EXISTING DOMESTIC WATER PIPING AND ASSOCIATED VALVES, SUPPORTS, ETC. COMPLETE AS REQUIRED.
 7. REMOVE EXISTING BELOW GRADE SANITARY PIPING COMPLETE AS REQUIRED.
 8. REMOVE EXISTING GAS WATER HEATER AND ASSOCIATED FLUES COMPLETE AS REQUIRED. EXISTING DOMESTIC PIPING, GAS PIPING, AND ELECTRICAL CONNECTIONS TO REMAIN FOR CONNECTION TO NEW WATER HEATER.
 9. NOT USED
 10. NOT USED
 11. REMOVE EXISTING MOP BASIN AND FAUCET AND ALL ASSOCIATED HOT/COLD WATER, SANITARY AND VENT PIPING COMPLETE AS REQUIRED.
 12. REMOVE EXISTING SINK AND FAUCET, ALL ASSOCIATED HOT/COLD WATER, SANITARY AND VENT PIPING TO REMAIN FOR CONNECTION NEW PLUMBING FIXTURE COMPLETE AS REQUIRED.
 13. REMOVE EXISTING WATER SOFTENER AND ASSOCIATED BRINE TANK PIPING, VALVES, CONTROLS, SUPPORTS, ETC. COMPLETE AS REQUIRED.
 14. REMOVE EXISTING TEMPERED WATER MIXING VALVE AND ASSOCIATED HOT, COLD, AND TEMPERED WATER PIPING COMPLETE AS REQUIRED.
 15. REMOVE EXISTING HOT WATER RETURN PUMP AND ASSOCIATED ELECTRICAL CONNECTION, CONTROLS, PIPING, VALVES, ETC. COMPLETE AS REQUIRED.
 16. REMOVE EXISTING 3/4" DOMESTIC HOT WATER RETURN PIPING.
 17. DISCONNECT AND RELOCATE EXISTING BACKFLOW PREVENTOR COMPLETE AS REQUIRED. SEE SHEET P-III FOR NEW LOCATION.



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DAVID G. JANNEY
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 PROFESSIONAL ENGINEER

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DRAWING
UNIT 'A' PLUMBING FIRST FLOOR DEMOLITION PLAN

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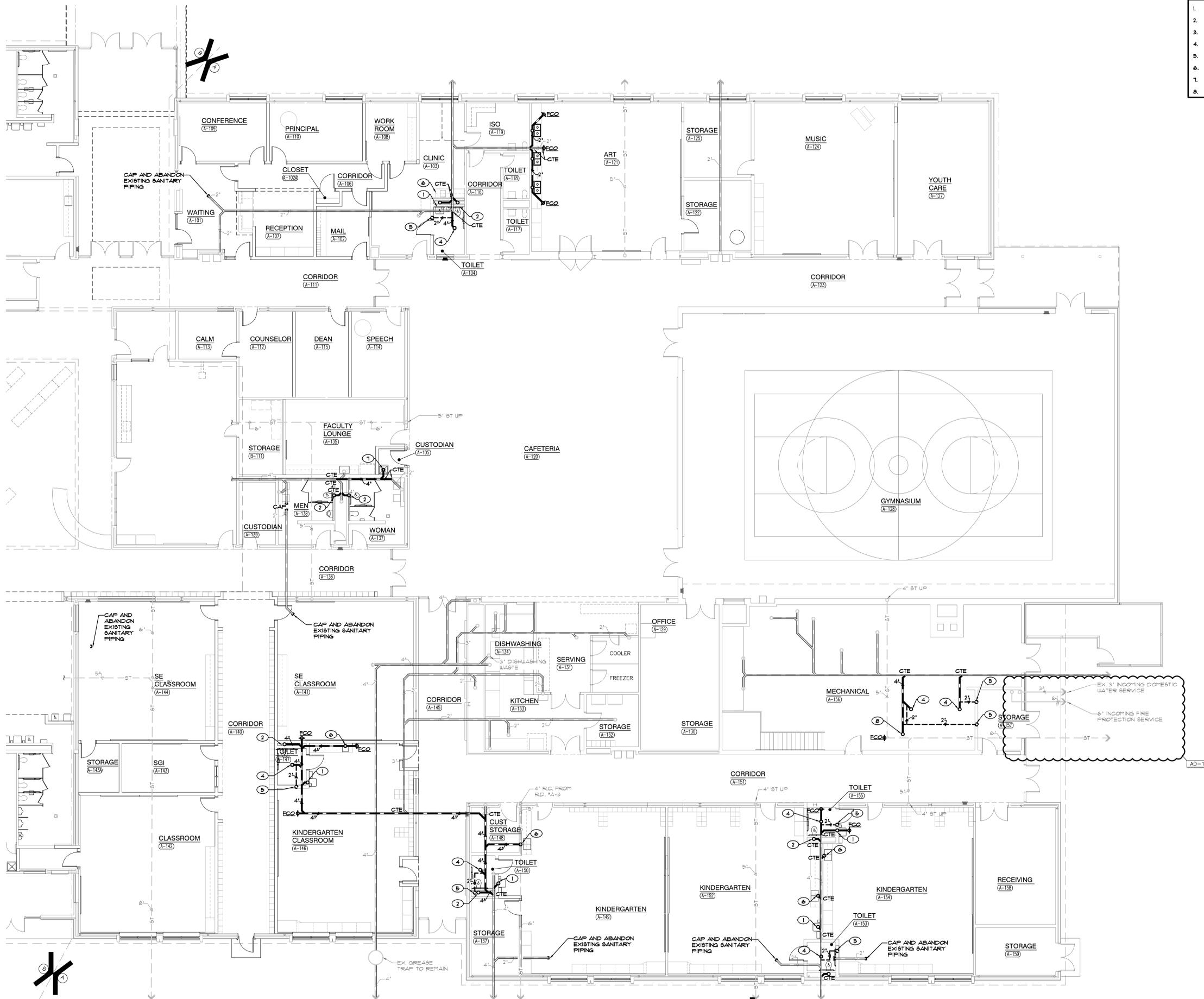
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UNIT 'A' PLUMBING FIRST FLOOR DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"



SHEET NOTES

1. 1 1/2" SANITARY UP TO LAVATORY
2. 4" SANITARY UP TO WATER CLOSET
3. 2" SANITARY UP TO URINAL
4. 4" UP TO FLOOR DRAIN
5. 2" VENT UP
6. 2" SANITARY UP TO SINK
7. 4" SANITARY UP TO MOP BASIN
8. 4" SANITARY UP TO FLOOR SINK



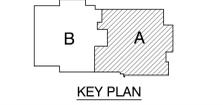
UNIT "A" PLUMBING UNDERFLOOR PLAN
SCALE: 1/8" = 1'-0"



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DRAWING
UNIT "A" PLUMBING UNDERFLOOR PLAN

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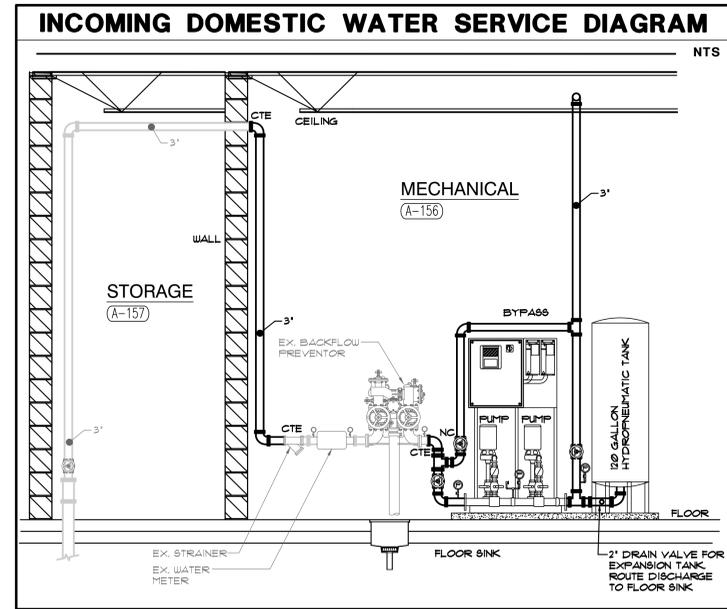
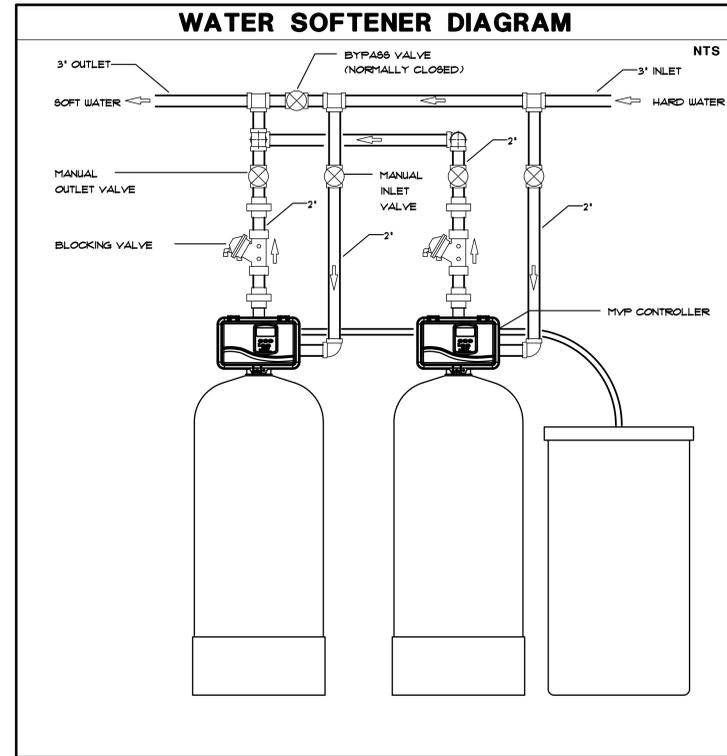
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DRAWING
**PLUMBING SYMBOLS,
NOTES, DETAILS &
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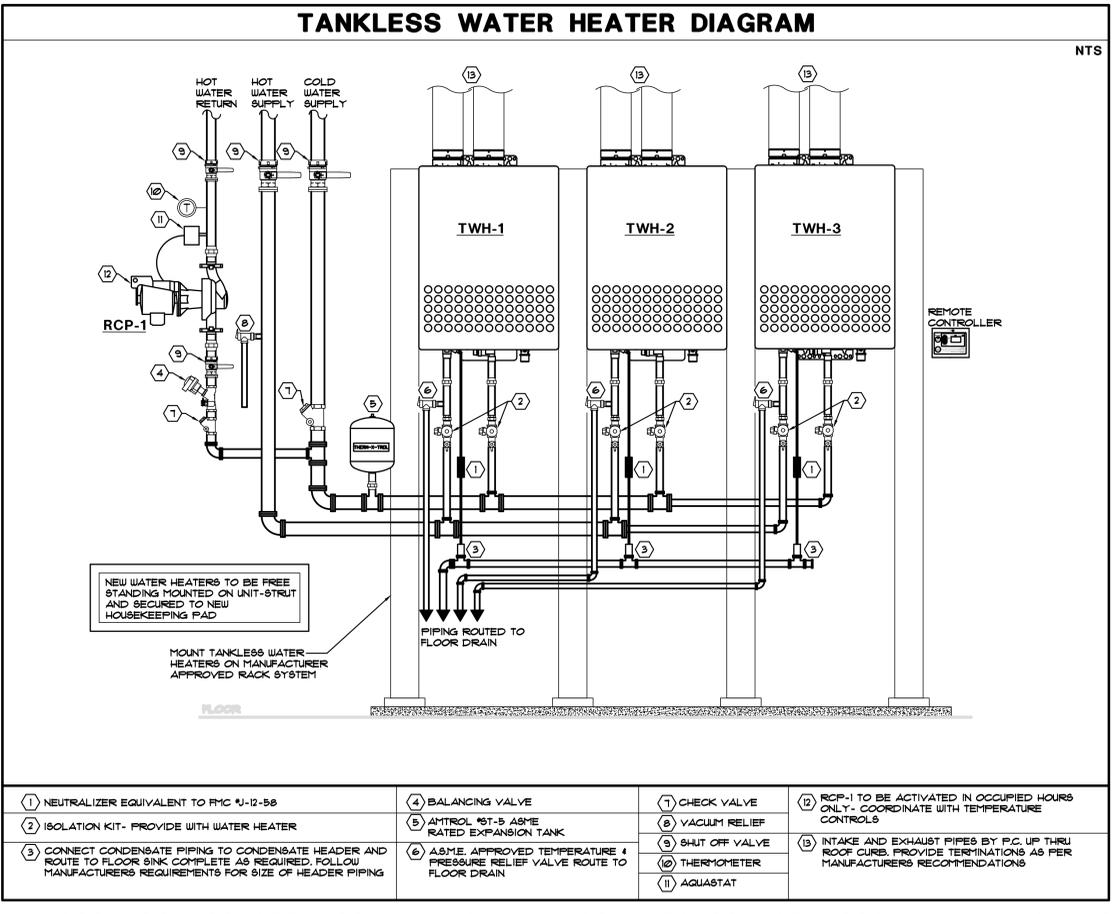
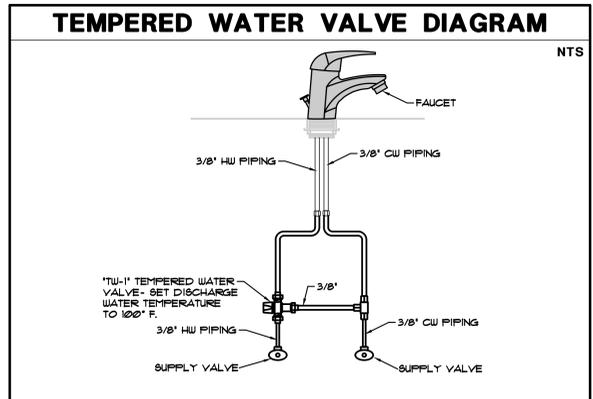
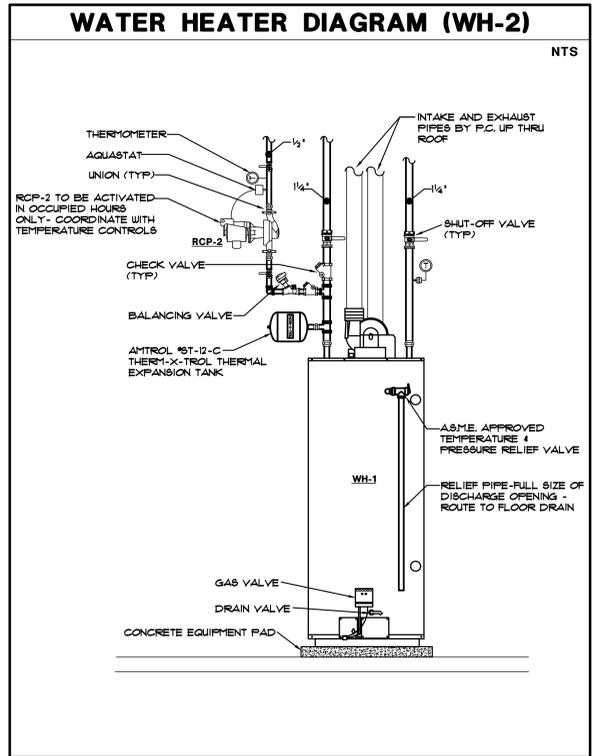
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SYMBOL LIST

—	EXISTING UNDERGROUND SANITARY PIPING	CTE	CONNECT TO EXISTING
—	EXISTING COLD WATER PIPING	CW	COLD WATER
—	EXISTING HOT WATER PIPING	DN	DOWN
—	EXISTING HOT WATER RECIRCULATION PIPING	EW	ELECTRIC WATER COOLER
—	EXISTING PIPING	EX	EXISTING
---	EXISTING PIPING TO BE REMOVED OR ABANDONED	FCO	FLOOR CLEANOUT
---	NEW UNDERGROUND SANITARY SEWER	FD	FLOOR DRAIN
---	NEW COLD WATER PIPING	HU	HOT WATER
---	NEW HOT WATER PIPING	HUR	HOT WATER RECIRCULATION
---	NEW HOT WATER RECIRCULATION PIPING	L	LAVATORY
---	NEW VENT PIPING	UR	URINAL
⌋	PIPE DOWN	V	VENT
⌋	PIPE UP	VTR	VENT THROUGH ROOF
⌋	SHUT-OFF VALVE	WC	WATER CLOSET
⌋	CHECK VALVE		
⌋	BALANCING COCK/MANUAL FLOW CONTROL VALVE		
⌋	SHEET NOTE TAG		

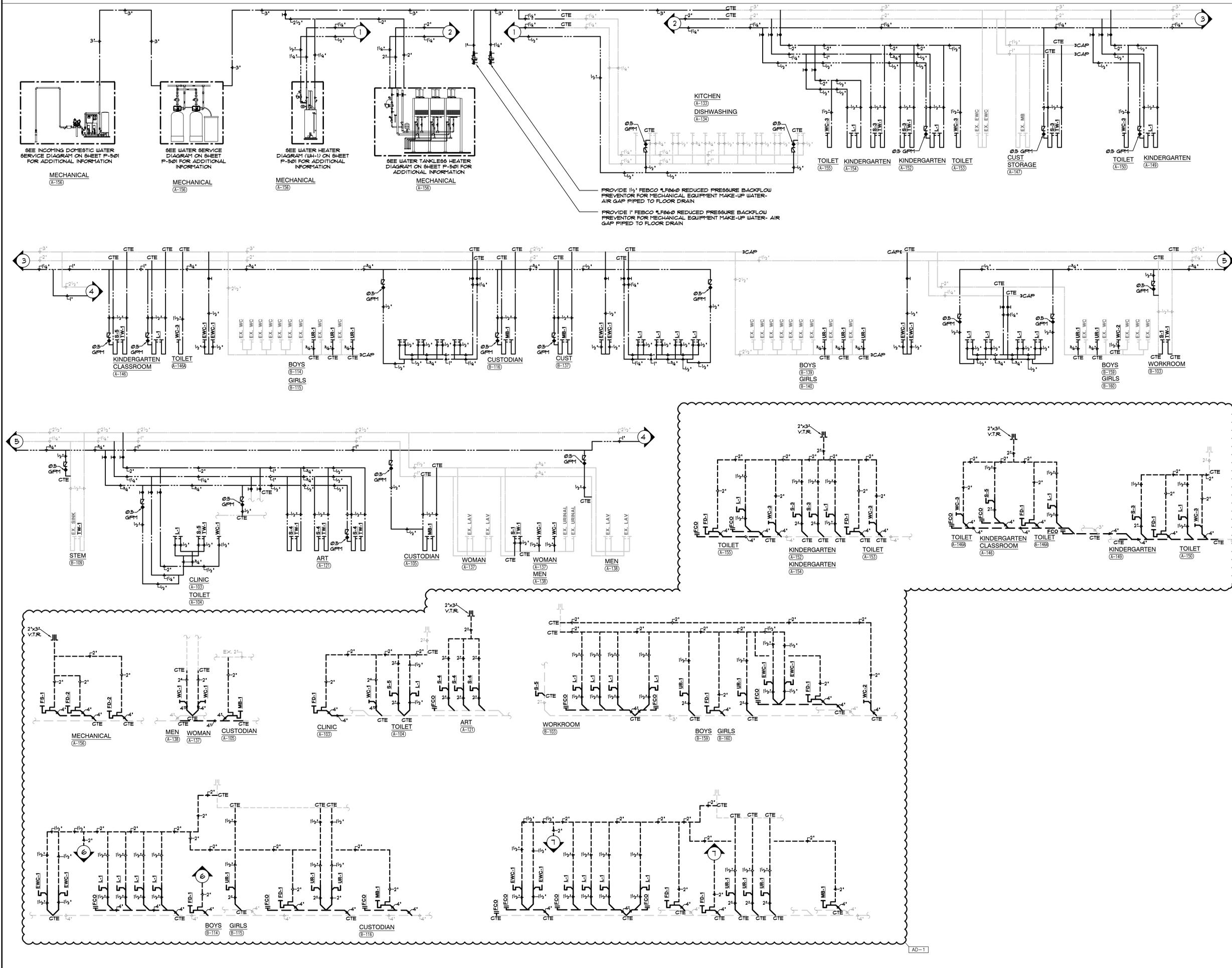
- ### GENERAL NOTES
- A. WORK SHALL COMPLY WITH LOCAL, MUNICIPAL, AND STATE PLUMBING CODES.
 - B. THE SCOPE OF WORK SPECIFIED HEREIN AND IN THE SPECIFICATIONS SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER - REFER TO THE SCOPE OF WORK FOR EACH TRADE. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND CONSTRUCTION MANAGER'S SCOPE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR CLARIFICATION. THE ARCHITECT/ENGINEER'S DECISION SHALL BE FINAL.
 - C. LAYOUT IS DIAGNOSTIC. INSTALL PIPING AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS. REVIEW PROJECT SPECIFICATIONS BEFORE STARTING ANY WORK. SUBMIT SHOP DRAWINGS OF WORK AS PER SPECIFICATIONS.
 - D. COORDINATE PHASING OF WORK AND PROVIDE TEMPORARY PIPING AND SERVICES AS REQUIRED FOR THE IMPLEMENTATION OF WORK WHILE MAINTAINING SERVICES TO PORTIONS OF BUILDING TO REMAIN OCCUPIED.
 - E. FIELD VERIFY IF EXISTING ASBESTOS WILL BE ENCOUNTERED PRIOR TO STARTING ANY WORK. IF ASBESTOS IS PRESENT, THE OWNER WILL PROVIDE FOR THE REMOVAL OF ANY MATERIAL CONTAINING ASBESTOS. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
 - F. LAYOUT WORK TO AVOID CONFLICTS BETWEEN DUCTWORK, LIGHTING, CEILING, PIPING AND BUILDING STRUCTURE.
 - G. SCHEDULE WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. EXISTING FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES. REQUIRED SHUTDOWN OF EXISTING UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL. NOTIFY OWNER'S REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO ANY SHUTDOWN OF EXISTING PLUMBING SYSTEMS.
 - H. COORDINATE VENT THROUGH ROOF LOCATIONS WITH OUTDOOR AIR INTAKE LOCATIONS TO MAINTAIN A MINIMUM SEPARATION OF TEN FEET.
 - I. VISIT SITE PRIOR TO BIDDING TO DETERMINE FIELD CONDITIONS. VERIFY EXISTING INTERIOR AND EXTERIOR PLUMBING SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE EXTENT OF NEW AND DEMOLITION WORK. VERIFY EXISTING INTERIOR AND EXTERIOR STORM AND SANITARY PIPING SYSTEMS AS TO ROUTING, SIZE AND INVERT ELEVATION PRIOR TO ANY INSTALLATION OF NEW AND REMOVAL OF ANY EXISTING.
 - J. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. ANY EXISTING CONDUIT, PIPING, DUCTWORK, EQUIPMENT, ETC. SHALL BE REWORKED AS REQUIRED TO AVOID CONFLICTS WITH THE INSTALLATION OF THE NEW PLUMBING SYSTEMS. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE ANY CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED. EXISTING EQUIPMENT, FIXTURES AND PIPING, ETC. SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK.
 - K. REMOVE EXISTING EQUIPMENT, FIXTURES, PIPING, ETC. PRESENTLY SERVING AREAS THAT ARE BEING RENOVATED AND THAT ARE NOT REQUIRED TO STAY IN SERVICE. NO EQUIPMENT, FIXTURES, PIPING, SUPPORTS, HANGERS, ETC. IS TO BE LEFT ABANDONED. VERIFY QUANTITY, LOCATION AND ELEVATION OF EXISTING TO BE REMOVED IN FIELD. REMOVE EXISTING ABANDONED EQUIPMENT, FIXTURES AND PIPING IN AREAS THAT ARE TO BE RENOVATED.
 - L. EXISTING INFORMATION IDENTIFIED ON THE CONTRACT DOCUMENTS IS SCHEMATIC ONLY AS AN AID TO THE CONTRACTOR. PROPERLY ADDRESS EXISTING CONDITIONS FOR A COMPLETE AND PROPER INSTALLATION OF NEW SYSTEMS. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE REPORTED IN WRITTEN FORM FOR REVIEW AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.
 - M. ANY HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPORTED IN WRITTEN FORM FOR REVIEW AND DIRECTION. FAILURE TO DO SO SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR ANY REQUIRED CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION.
 - N. REMOVED PIPING IS TO BE TERMINATED PROPERLY BACK TO EXISTING MAINS. CAP PIPING WATER-TIGHT. PROVIDE ADDITIONAL PIPING AS REQUIRED TO MAINTAIN CONTINUITY OF EXISTING SYSTEMS MODIFIED DUE TO REMOVAL OF PORTION OF SYSTEMS.
 - O. PATCH EXISTING CEILING, FLOOR, WALL AND ROOF OPENINGS AND SURROUNDING FINISHES RESULTING FROM REMOVAL OF EXISTING MATERIALS AND EQUIPMENT SO THAT FINISH WILL MATCH EXISTING IN SURROUNDING AREAS.
 - P. PROVIDE FINISHING OF EXISTING CEILING, FLOOR, AND WALL SURFACES AT LOCATIONS AFFECTED BY REMOVAL OF EXISTING MATERIALS AND EQUIPMENT SO THAT NEW FINISH WILL MATCH EXISTING IN SURROUNDING AREAS.
 - Q. REMOVE EXISTING CEILING REQUIRED FOR INSTALLATION OF NEW WORK. REINSTALL CEILING UPON COMPLETION OF WORK. REPLACE DAMAGED CEILING MATERIALS TO MATCH EXISTING.
 - R. PROVIDE CUTTING, CORE DRILLING AND PATCHING OF EXISTING FLOOR, WALL AND ROOF CONSTRUCTIONS REQUIRED FOR THE INSTALLATION OF NEW PIPING. SEAL PENETRATIONS THROUGH FLOOR, WALL AND ROOF STRUCTURE WATER-TIGHT AND WITH AN APPROVED FIRE STOPPING MATERIAL, INCLUDING APPROVED FIRE RATED SLEEVE.
 - S. PROVIDE AND INSTALL FLENUM WRAP, TESTED TO UL 84 AND UL 910, ON ALL EXISTING PVC PIPING IN NEW OR EXISTING RETURN AIR CEILING FLENUMS.
 - T. PROVIDE CUTTING, TRENCHING AND PATCHING OF EXISTING FLOOR SLAB REQUIRED FOR THE INSTALLATION OF NEW UNDERGROUND PIPING.
 - U. PROVIDE ROUGH-IN AND FINAL CONNECTIONS TO PLUMBING EQUIPMENT AND FIXTURES. SET FIXTURES/EQUIPMENT AND FURNISH AND INSTALL NECESSARY FITTINGS, TRAPS, STOPS, ETC. AS REQUIRED.
 - V. PLUMBING PIPING ROUTING TO BE FIELD COORDINATED WITH NEW AND EXISTING HVAC DUCTWORK, HVAC PIPING, FIRE PROTECTION PIPING, ELECTRICAL AND STRUCTURE TO ENSURE NO CONFLICTS WILL OCCUR DUE TO INTERFERENCE.
 - W. PIPING, EQUIPMENT, ETC. SHALL NOT BE SUPPORTED FROM THE BOTTOM CHORD OF ENGINEERED JOISTS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
 - X. ISOLATION VALVES SHALL BE INSTALLED OVER ACCESSIBLE CEILING. WHEN ISOLATION VALVES ARE INSTALLED OVER INACCESSIBLE CEILING AREAS, IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO FURNISH AND INSTALL 12" X 12" (MINIMUM) CEILING ACCESS DOORS. TYPE TO BE VANDALPROOF, TAMPERPROOF ASSEMBLIES. INSTALLATION TO BE COORDINATED WITH GENERAL CONTRACTOR.
 - Y. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR FINAL MOUNTING HEIGHTS OF PLUMBING FIXTURES.
 - Z. PROTECT NEW AND EXISTING DRAIN OPENINGS AND SANITARY LINES DURING CONSTRUCTION TO PREVENT BLOCKAGE. ROD-OUT EXISTING SANITARY PIPING. PIPING SHALL BE FREE OF BLOCKAGE.
 - AA. REPAIR AND/OR REPLACE DAMAGED PIPE INSULATION THAT OCCURS AS THE RESULT OF THIS CONSTRUCTION.
 - AB. PIPING PENETRATING AIR FLENUM CEILING AREAS SHALL BE PROPERLY SEALED TO MAKE AIR-TIGHT. REFER TO MECHANICAL DUCTWORK DRAWINGS FOR AIR FLENUM LOCATIONS.
 - AC. VIDEOTAPE EXISTING SANITARY MAIN TO CONFIRM EXISTING BRANCH SANITARY CONNECTION POINTS. INVERTS AND CONDITION OF PIPING AS REQUIRED TO COMPLETE WORK. PROVIDE REPORT INDICATING CONNECTION POINT LOCATIONS, INVERTS, AND ANY DEFICIENCIES IN EXISTING SANITARY PIPING SYSTEM PRIOR TO STARTING WORK.



① NEUTRALIZER EQUIVALENT TO RHC 4J-12-98	④ BALANCING VALVE	⑦ CHECK VALVE	⑩ RCP-1 TO BE ACTIVATED IN OCCUPIED HOURS ONLY - COORDINATE WITH TEMPERATURE CONTROLS
② ISOLATION KIT - PROVIDE WITH WATER HEATER	⑤ ANTIROL 8ST-5 ASME RATED EXPANSION TANK	⑧ VACUUM RELIEF	
③ CONNECT CONDENSATE PIPING TO CONDENSATE HEADER AND ROUTE TO FLOOR SINK COMPLETE AS REQUIRED. FOLLOW MANUFACTURER'S REQUIREMENTS FOR SIZE OF HEADER PIPING	⑥ ASME APPROVED TEMPERATURE & PRESSURE RELIEF VALVE ROUTE TO FLOOR DRAIN	⑨ SHUT OFF VALVE	⑬ INTAKE AND EXHAUST PIPES BY P.C. UP THRU ROOF CURB. PROVIDE TERMINATIONS AS PER MANUFACTURER'S RECOMMENDATIONS
		⑪ THERMOMETER	
		⑫ AQUASTAT	

AD-1

RISER DIAGRAMS



PROVIDE 1 1/2" FIBCO #1F860 REDUCED PRESSURE BACKFLOW PREVENTOR FOR MECHANICAL EQUIPMENT MAKE-UP WATER- AIR GAP PIPED TO FLOOR DRAIN

PROVIDE 1" FIBCO #1F860 REDUCED PRESSURE BACKFLOW PREVENTOR FOR MECHANICAL EQUIPMENT MAKE-UP WATER- AIR GAP PIPED TO FLOOR DRAIN



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