

IDEA PUBLIC SCHOOLS

PLUMBING UPGRADES AT LOWER RGV CAMPUSES

RFP# 27-LRPU-0424

NO. REVISION: BY:

COPY NO:
CSP # 27-LRPU-0424



TEXAS

IDEA PUBLIC SCHOOLS
LOWER RGV PLUMBING UPGRADES

RIO GRANDE VALLEY



1128 SOUTH COMMERCE ST.
HARLINGEN, TX
PHONE: 361-205-2435
TEXAS REGISTERED
ENGINEERING FIRM
E-15598

DATE: APRIL 19, 2024
CHECKED BY: C.A.G.
DRAWN BY: M.O.V.
PROJECT NO.: 23v82
CAD FILE:
SHEET:

COVER

DATE OF ISSUE
APRIL 19, 2024

LIST OF DRAWINGS

COVER	COVER SHEET	
P2.01	RENOVATION PLUMBING PLAN "BROWNSVILLE BUILDING A - 1ST AND 2ND FLOOR".	P5.10 RENOVATION PLUMBING PLAN "FRONTIER PORTABLE BUILDING".
P2.02	RENOVATION PLUMBING PLAN "BROWNSVILLE BUILDING B - 1ST AND 2ND FLOOR".	P5.11 PLUMBING FIXTURES SCHEDULES AND FIXTURES IMAGES.
P2.03	RENOVATION PLUMBING PLAN "BROWNSVILLE BUILDING C".	P6.01 DEMOLITION AND RENOVATION PLUMBING PLAN "SAN BENITO BUILDING A".
P2.04	RENOVATION PLUMBING PLAN "BROWNSVILLE BUILDING D - 1ST AND 2ND FLOOR".	P6.02 DEMOLITION AND RENOVATION PLUMBING PLAN "SAN BENITO BUILDING B".
P3.01	PLUMBING FIXTURES SCHEDULES AND FIXTURES IMAGES.	P6.03 RENOVATION PLUMBING PLAN "SAN BENITO CAFETERIUM BUILDING".
P4.01	RENOVATION PLUMBING PLAN "DONNA SITE PLAN".	P6.04 RENOVATION PLUMBING PLAN "SAN BENITO BUILDING D".
P4.02	RENOVATION PLUMBING PLAN "DONNA SITE PLAN".	P6.05 PLUMBING FIXTURES SCHEDULES AND FIXTURES IMAGES.
P4.03	PLUMBING FIXTURES SCHEDULES AND FIXTURES IMAGES.	P7.01 DEMOLITION PLUMBING PLAN "WESLACO MAIN BUILDING 1ST FLOOR".
P5.01	DEMOLITION AND RENOVATION PLUMBING PLAN "FRONTIER BUILDING A".	P7.02 DEMOLITION PLUMBING PLAN "WESLACO MAIN BUILDING 2ND FLOOR".
P5.02	DEMOLITION AND RENOVATION PLUMBING PLAN "FRONTIER BUILDING B".	P7.03 RENOVATION PLUMBING PLAN "WESLACO MAIN BUILDING 1ST FLOOR".
P5.03	DEMOLITION AND RENOVATION PLUMBING PLAN "FRONTIER BUILDING C".	P7.04 RENOVATION PLUMBING PLAN "WESLACO MAIN BUILDING 2ND FLOOR".
P5.04	DEMOLITION AND RENOVATION PLUMBING PLAN "FRONTIER BUILDING D".	P7.05 PLUMBING FIXTURES SCHEDULES AND FIXTURES IMAGES.
P5.05	RENOVATION PLUMBING PLAN "FRONTIER BUILDING E".	
P5.06	DEMOLITION PLUMBING PLAN "FRONTIER BUILDING F".	
P5.07	RENOVATION PLUMBING PLAN "FRONTIER BUILDING F".	
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P5.09	RENOVATION PLUMBING PLAN "FRONTIER BUILDING H".	

SCOPE OF WORK

- a. DEMOLITION WORK:
- 1) DEMOLISH EXISTING PLUMBING AS INDICATED AND PREPARE SERVICES FOR NEW PLUMBING FIXTURES, OTHERWISE CAP AND SEAL SERVICES AT A CONCEALED LOCATION.
 - 2) WORK INCLUDES REPLACEMENT OF PLUMBING PIPING, WATER HEATERS, DRINKING FOUNTAINS, CONDENSATE DRAIN LINES, HOSE BIBS, ETC.
 - 3) COORDINATE WITH NEW WORK AND RETAIN EXISTING PLUMBING LINES THAT ARE TO BE REUSED.
 - 4) SEAL UNUSED OPENINGS IN FLOORS, ROOFS, AND WALLS, AS INDICATED IN THE DRAWINGS.
- b. NEW WORK:
- 1) PLUMBING FIXTURES AND APPLIANCES SUCH AS ELECTRIC WATER HEATERS, DRINKING FOUNTAINS, HOSE BIBS, VALVES, FITTINGS, HARDWARE, AND SPECIALTIES.
 - 2) POTABLE WATER DISTRIBUTION PIPING AND SERVICE CONNECTIONS TO SITE UTILITIES.
 - 3) SANITARY WASTEWATER AND VENT PIPING AND SERVICE LINE CONNECTIONS AS INDICATED.
 - 4) INSULATED, COPPER, CONDENSATE DRAIN PIPING.
 - 5) SITEWORK, TRENCHING, AND BACKFILLING, RELATED TO PLUMBING UTILITIES EXTENSION AND CONNECTIONS.
 - 6) PAINTING: SEE DIVISION 9 SPECIFICATIONS. PAINT ALL EXPOSED PIPING, INSULATION, HANGERS, ACCESSORIES IN INTERIOR EXPOSED AREAS. PAINT EXTERIOR PIPE SUPPORTS. COORDINATE PAINT TYPE, COLOR AND SCOPE OF WORK WITH ARCHITECT.

BOARD OF DIRECTORS

MICHAEL ADAMS	MEMBER
GARY LINDGREN	MEMBER
THERESA BARRERA -SHAW	MEMBER
NANETTE COCERO	MEMBER
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CODY GRINDLE	PRESIDENT
DR. ERNIE CANTU	CHIEF SCHOOLS OFFICER

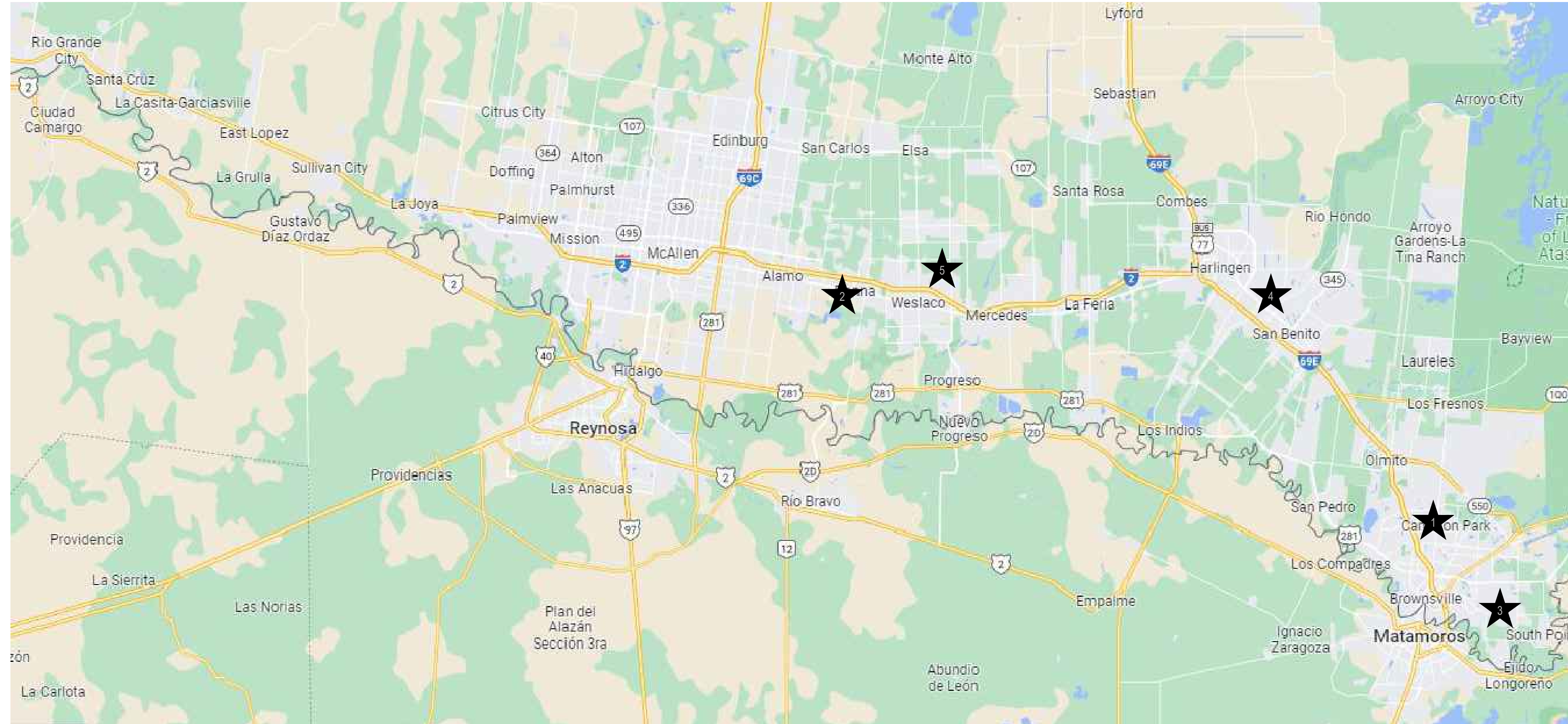
RIO GRANDE VALLEY REGIONAL BOARD

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SARAH GARZA	BOBBY SAENZ
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EXECUTIVE COMMITTEE

COLLIN SEWELL	CHAIR
ED RIVERA	VICE-CHAIR
ERICH HOLMSTEN	TREASURER
RYAN VAUGHAN	SECRETARY

VICINITY MAP - RIO GRANDE VALLEY



SCHOOL LIST:

1. IDEA BROWNSVILLE
4395 PAREDES LINE RD., BROWNSVILLE, TX
2. IDEA DONNA
401 S. 1ST, DONNA, TX
3. IDEA FRONTIER
2800 DAKOTA AVE., BROWNSVILLE, TX
4. IDEA SAN BENITO
2151 RUSSELL LN, SAN BENITO, TX
5. IDEA WESLACO
E SUGARCANE DR, WESLACO, TX



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GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
2. FOR ALL WALL HYDRANTS BEING REPLACED, CONTRACTOR SHALL RETAIN EXISTING BOX/ENCLOSURE AND SHALL REPLACE ALL INTERNAL COMPONENTS. IT WILL BE CONTRACTOR RESPONSIBILITY TO PROVIDE AN EQUAL/SIMILAR HYDRANT TO FIT INTO EXISTING BOX/ENCLOSURE.
3. PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

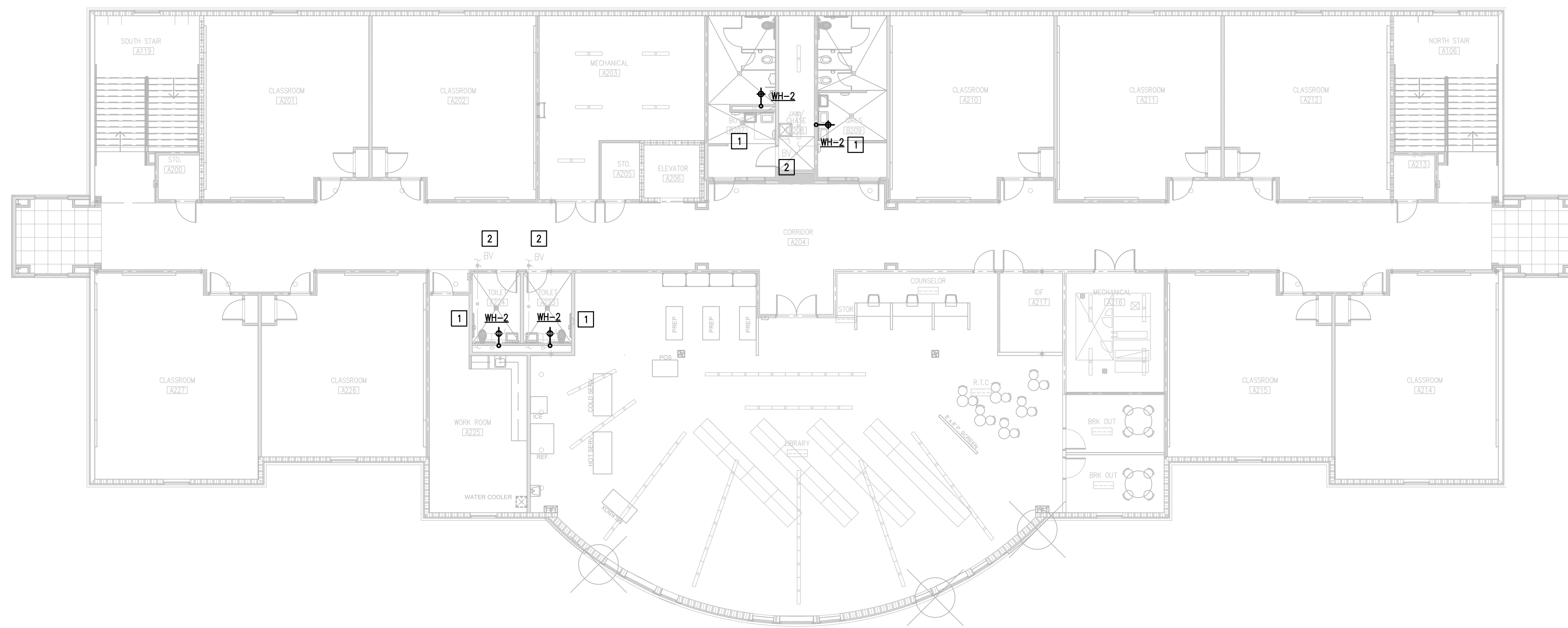
PLUMBING KEYED NOTES:

- 1 REMOVE AND REPLACE WALL HYDRANT AT THIS APPROXIMATE LOCATION. SEE SCHEDULE ON SHEET P3.01.
- 2 APPROXIMATE LOCATION OF EXISTING ISOLATION VALVE. FIELD VERIFY EXACT LOCATION.

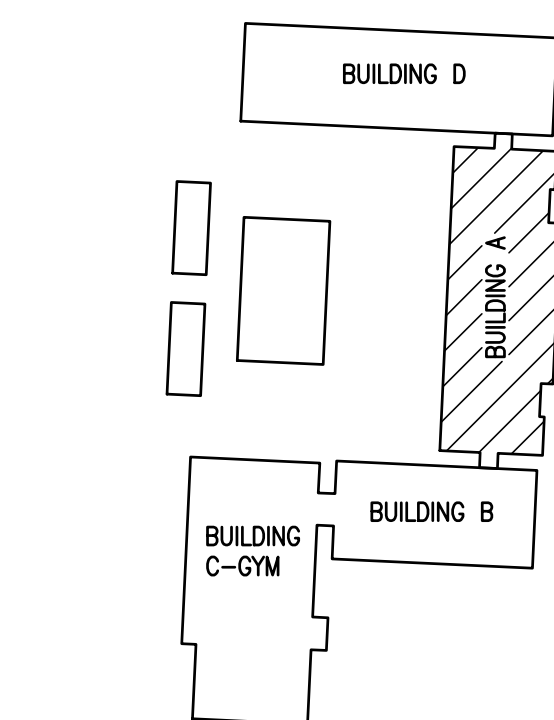
PLUMBING LEGEND	
	WALL HYDRANT TO BE REPLACED



IDEA BROWNSVILLE
01 PLUMBING PLAN (BUILDING A- 1ST FLOOR)
 SCALE : 3/32" = 1'-0"

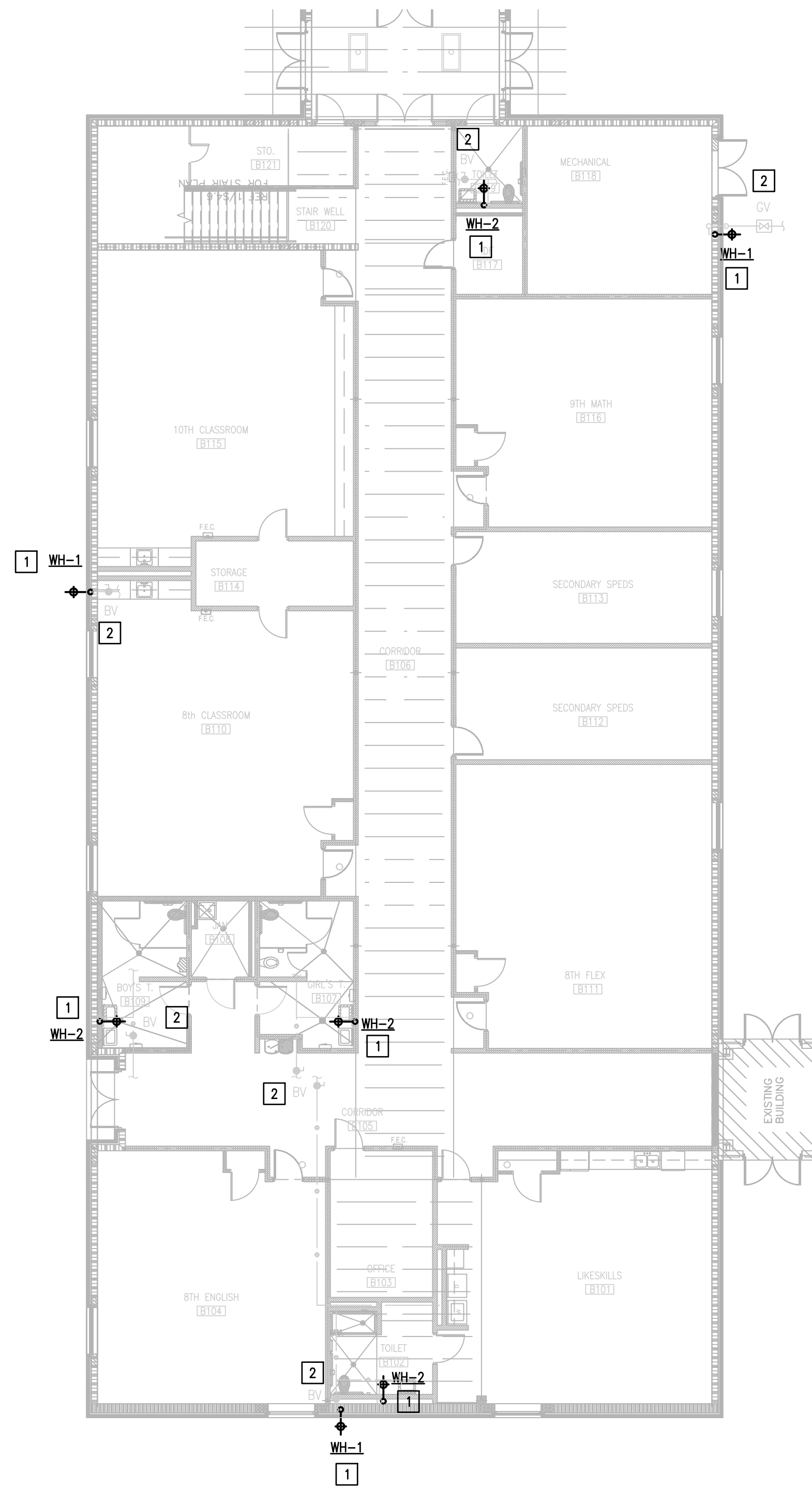



IDEA BROWNSVILLE
02 PLUMBING PLAN (BUILDING A- 2ND FLOOR)
 SCALE : 3/32" = 1'-0"

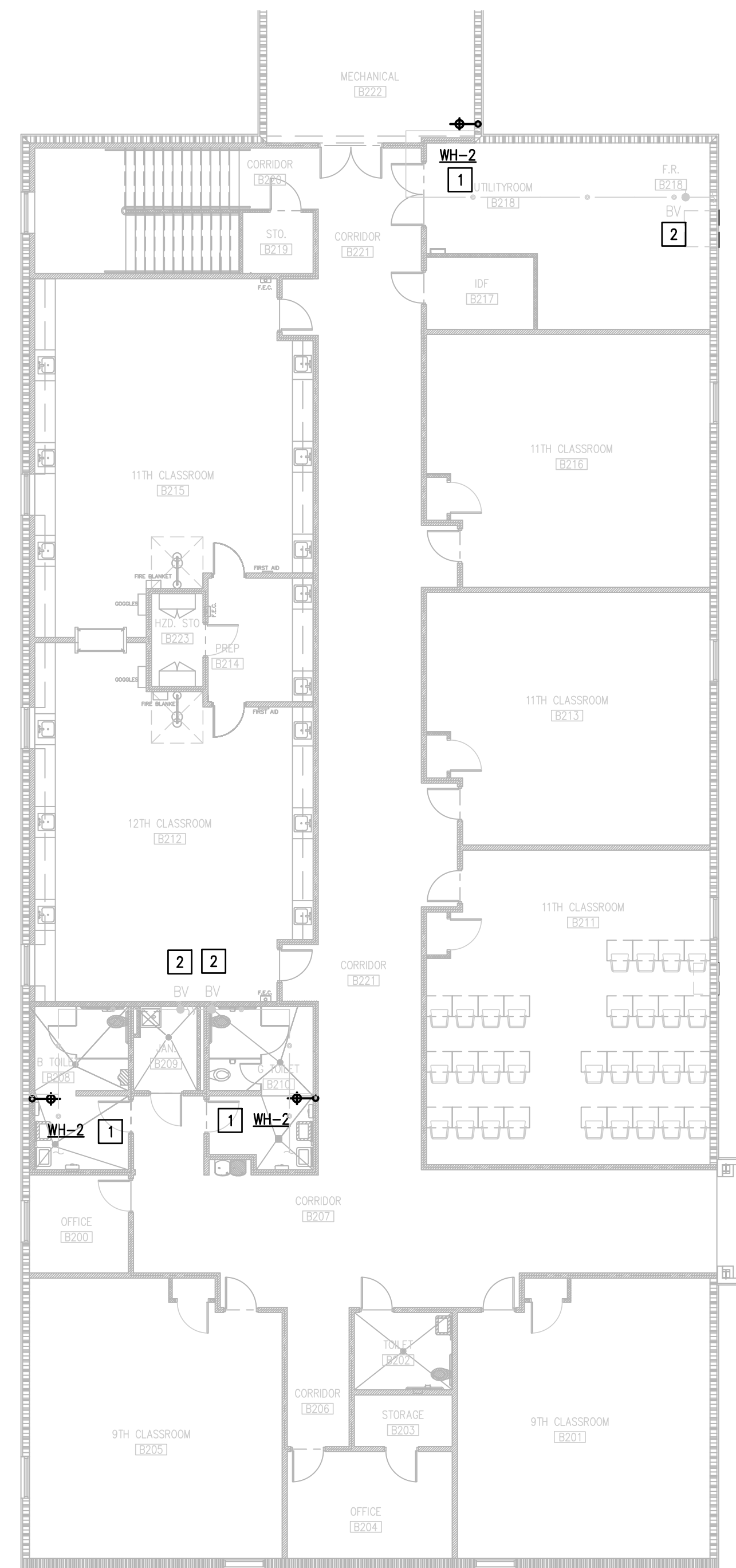


BROWNSVILLE IDEA ACADEMY
KEYPLAN

IDEA BROWNSVILLE
01 PLUMBING PLAN (BUILDING B - 1ST FLOOR) 
 SCALE : 3/32" = 1'-0"



IDEA BROWNSVILLE
02 PLUMBING PLAN (BUILDING B - 2ND FLOOR) 
 SCALE : 3/32" = 1'-0"



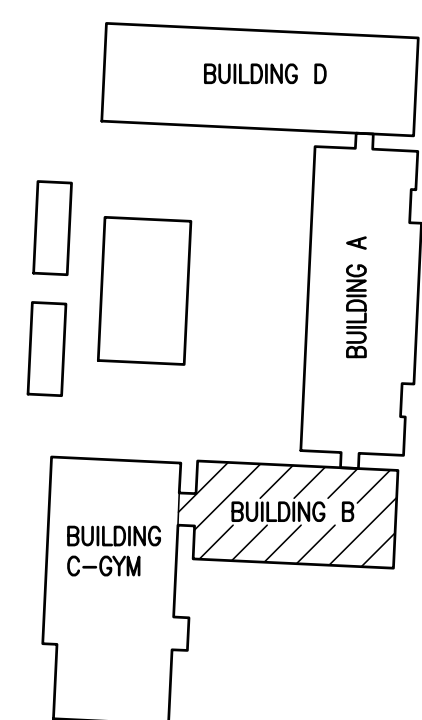
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PLUMBING LEGEND	
	WALL HYDRANT TO BE REPLACED



BROWNSVILLE IDEA ACADEMY
 KEYPLAN

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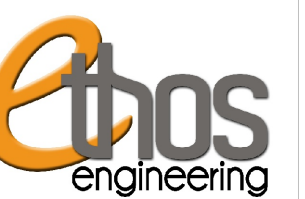
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P2.02



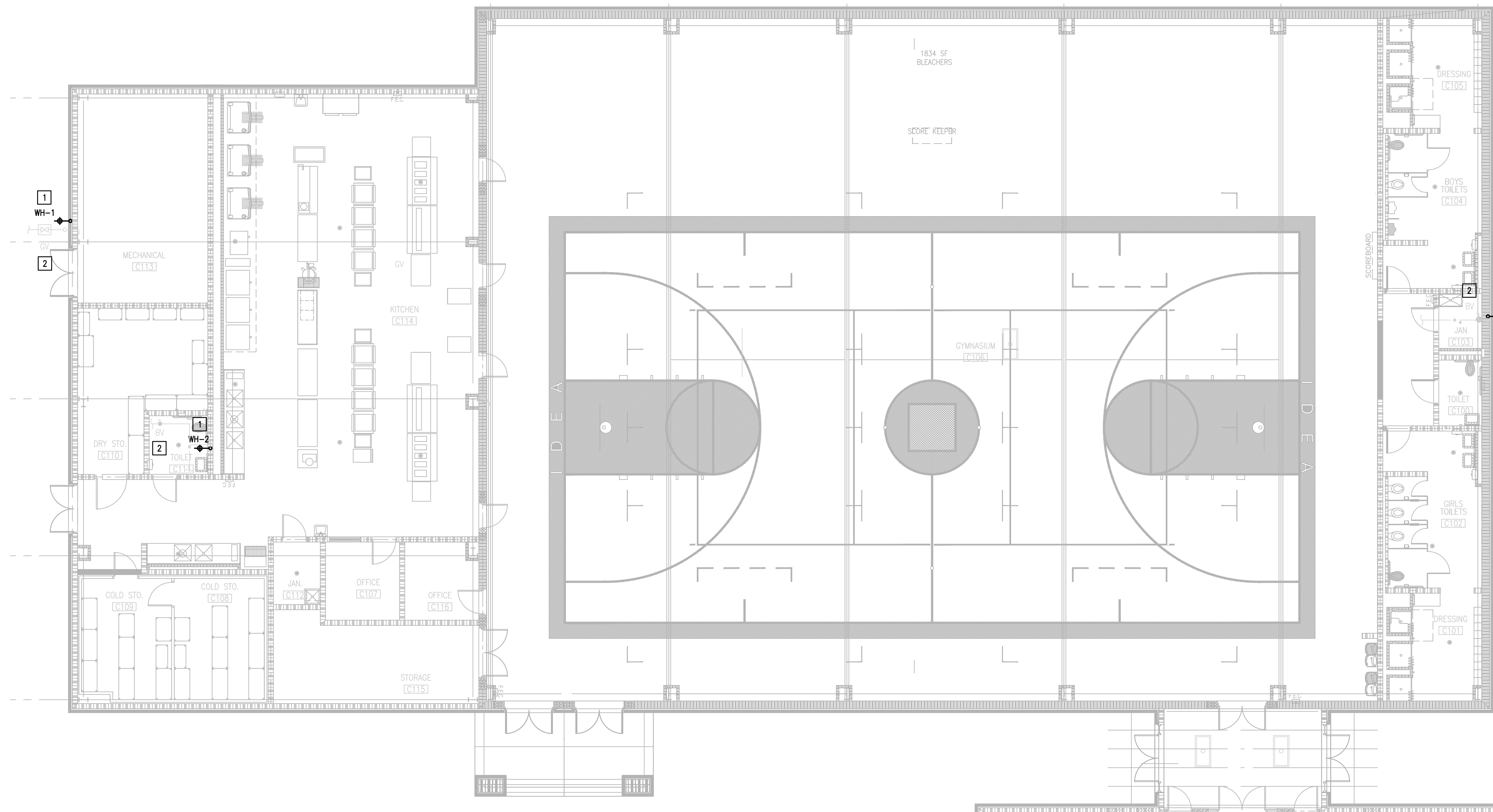
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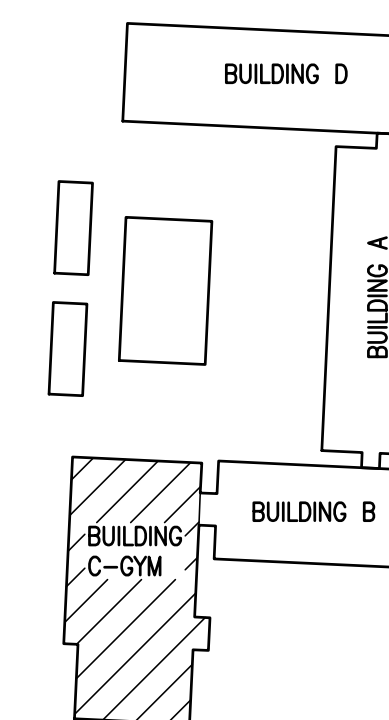
PLUMBING LEGEND	
	WALL HYDRANT TO BE REPLACED



IDEA BROWNSVILLE
 01 PLUMBING PLAN (BUILDING C- GYM)
 SCALE : 1/8" = 1'-0" NORTH

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RIO GRANDE VALLEY

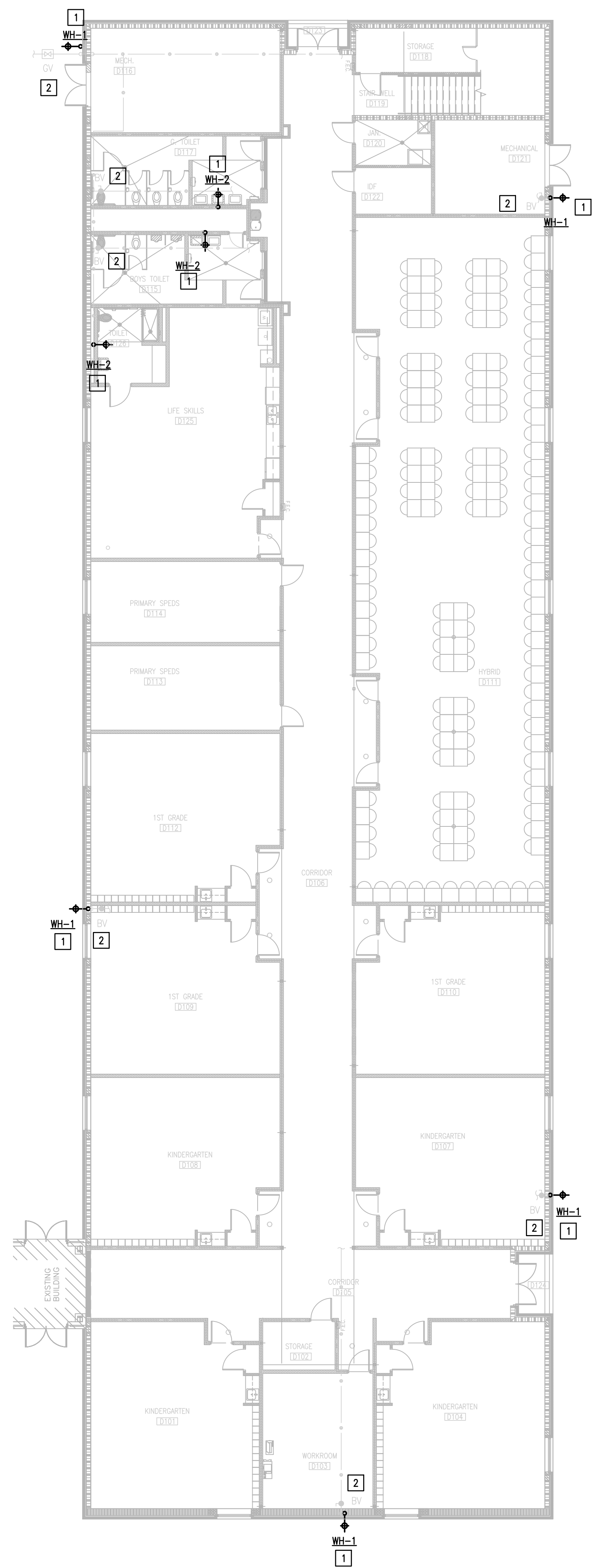


BROWNSVILLE IDEA ACADEMY
 KEYPLAN

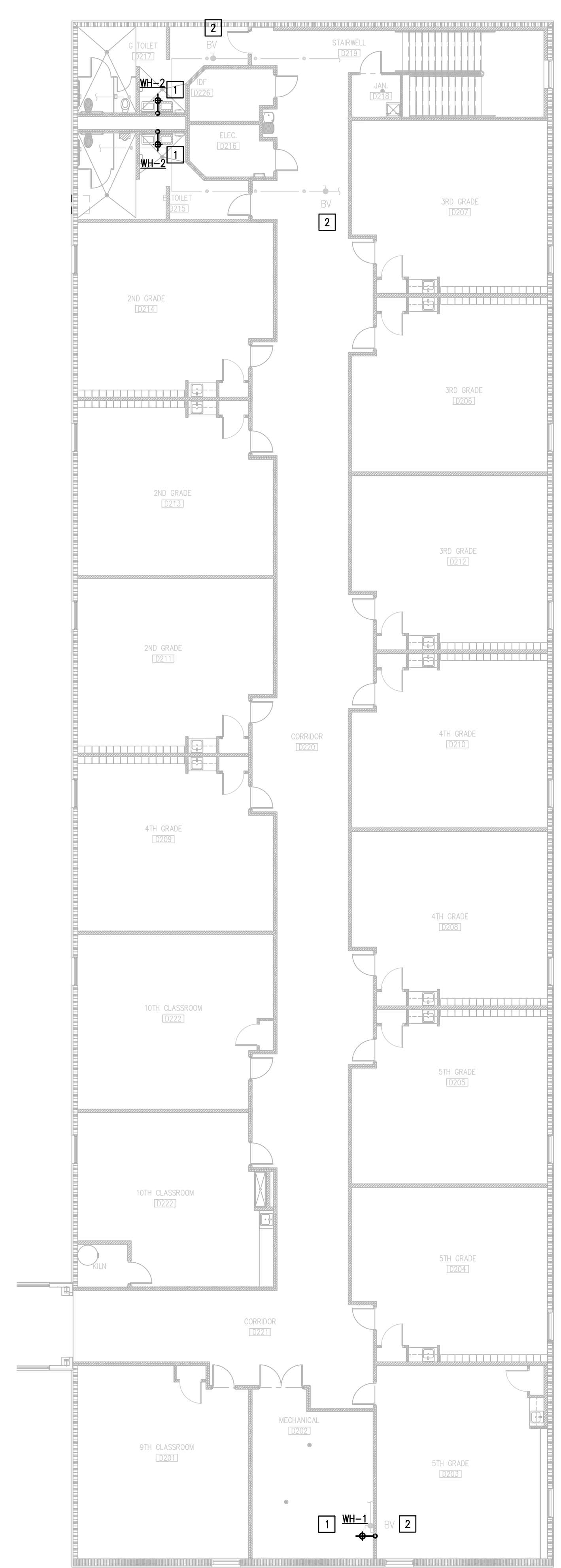


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IDEA BROWNSVILLE
01 PLUMBING PLAN (BUILDING D- 1ST FLOOR)
 SCALE : 3/32" = 1'-0"
 NORTH



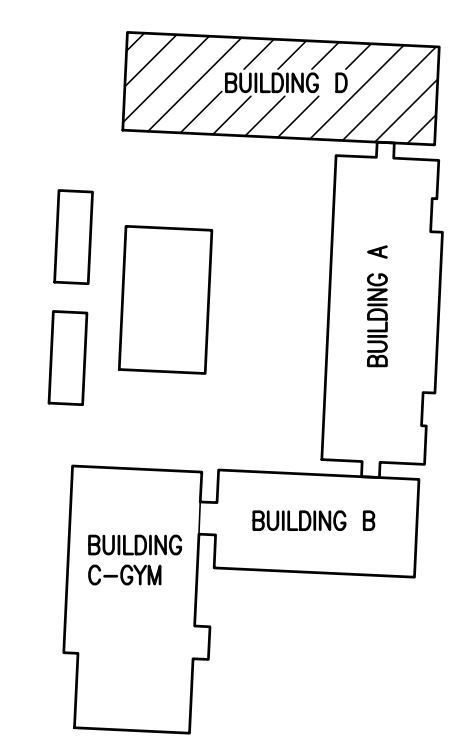
IDEA BROWNSVILLE
02 PLUMBING PLAN (BUILDING D- 2ND FLOOR)
 SCALE : 3/32" = 1'-0"
 NORTH

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BROWNSVILLE IDEA ACADEMY
 KEYPLAN

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P2.04

PLUMBING FIXTURE SCHEDULE

Project: IDEA PS PLUMBING UPGRADES AT LOWER RGV CAMPUSES

MARK	MANUFACTURER & MODEL NUMBER	DESCRIPTION	CONNECTIONS					REMARKS
			WASTE	VENT	CW	HW	NOTES	
WH-1	ZURN # Z1300-10	EXPOSED ECOLOTROL "ANTI-SIPHON" AUTOMATIC DRAINING WALL HYDRANT. COMPLETE WITH NONFREEZE INTEGRAL BACKFLOW PREVENTER, BRONZE CASING, ALL BRONZE INTERIOR PARTS, NON-TURNING OPERATING ROD WITH FREE-FLOATING COMPRESSION CLOSURE VALVE, REPLACEABLE BRONZE SEAT AND SEAT WASHER, AND COMBINATION 3/4" FEMALE OR 1" MALE STRAIGHT IP INLET. STAINLESS STEEL FACE WITH OPERATING KEY.	-	-	3/4"	-	-	
WH-2	ZURN # Z1349	WALL HYDRANT FOR NARROW WALL INSTALLATION, COMPLETE WITH BRONZE BODY, ALL BRONZE INTERIOR PARTS, REPLACEABLE SEAT WASHER, SCREWDRIVER-OPERATED STOP VALVE IN SUPPLY, KEY-OPERATED CONTROL VALVE, 3/4[19] FEMALE IP INLET CONNECTION STANDARD, AND 3/4[19] MALE HOSE CONNECTION. INCLUDES OPERATING KEY.	-	-	3/4"	-	-	



01 WH-1
SCALE : NOT TO SCALE



02 WH-2
SCALE : NOT TO SCALE

NO. REVISION: BY:

COPY NO:

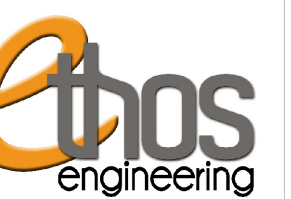
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P3.01



GENERAL NOTES:

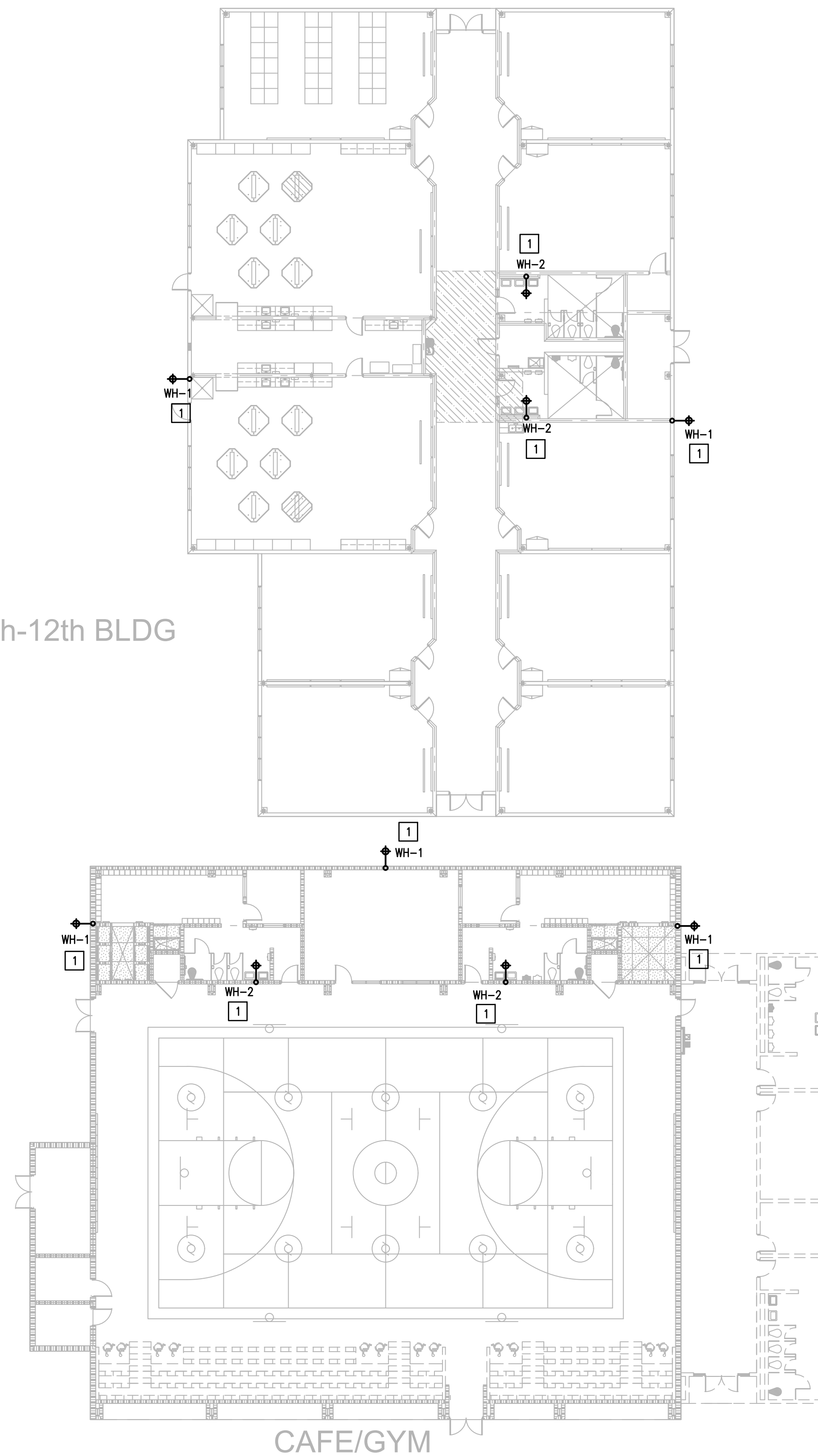
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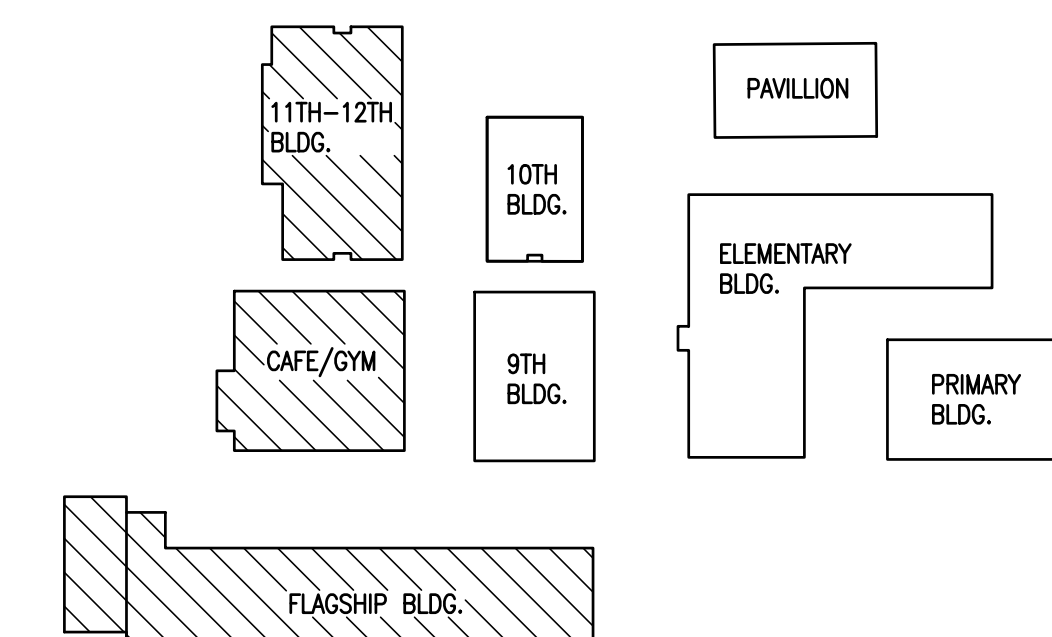
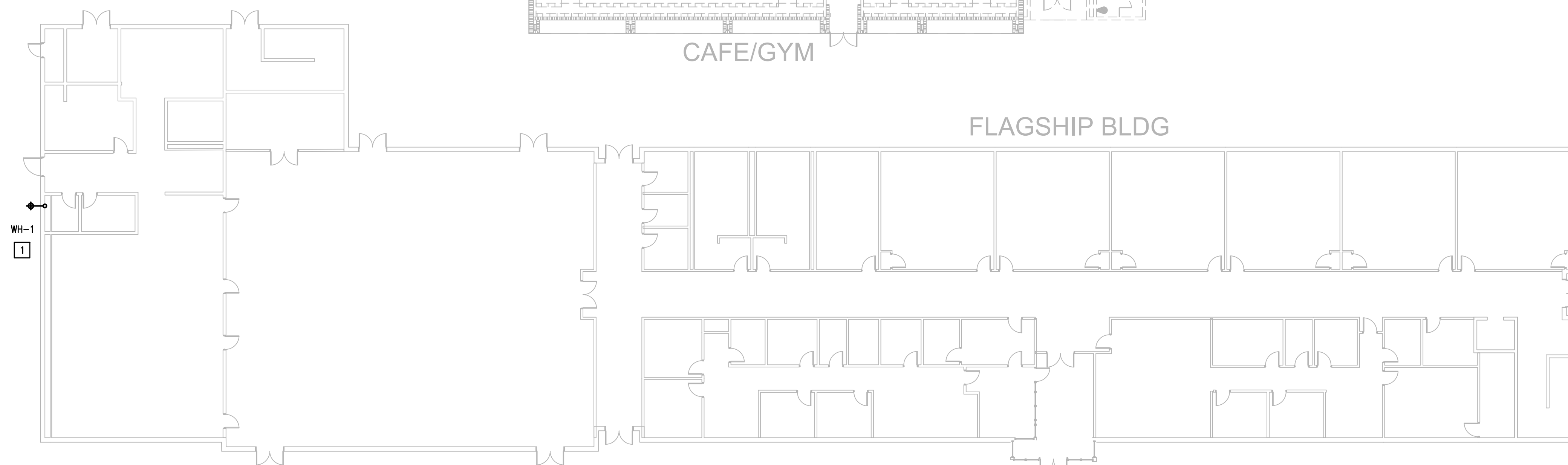
PLUMBING LEGEND	
	WALL HYDRANT TO BE REPLACED

11th-12th BLDG



CAFE/GYM

FLAGSHIP BLDG



DONNA IDEA ACADEMY
KEYPLAN

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LOWER RGV PLUMBING UPGRADES

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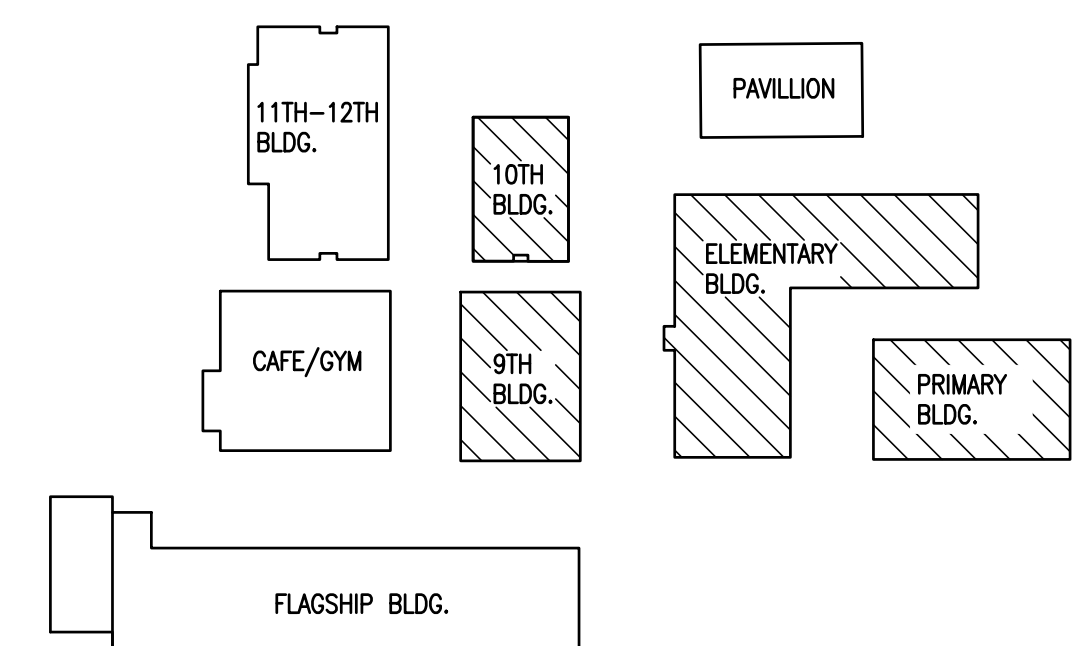
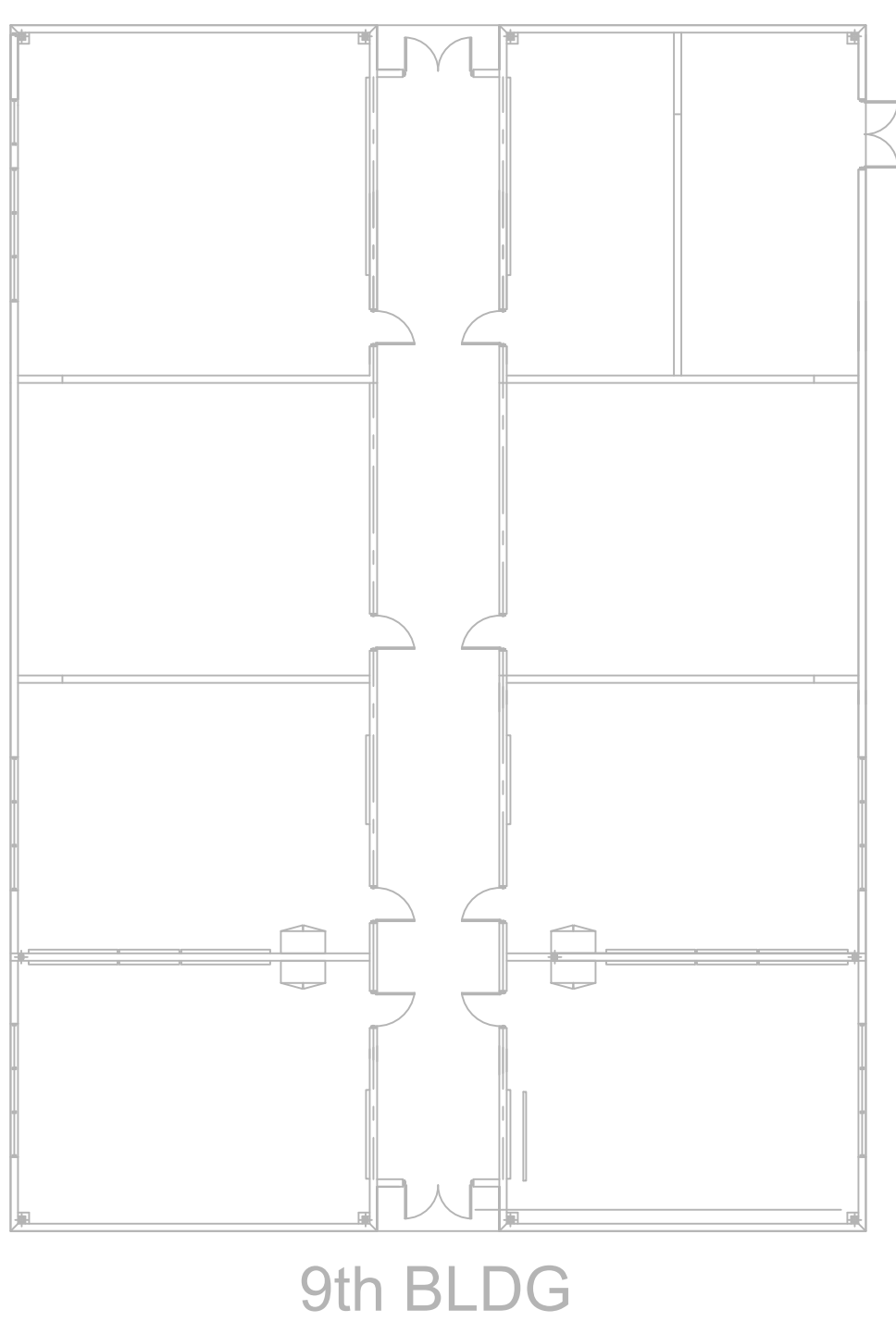
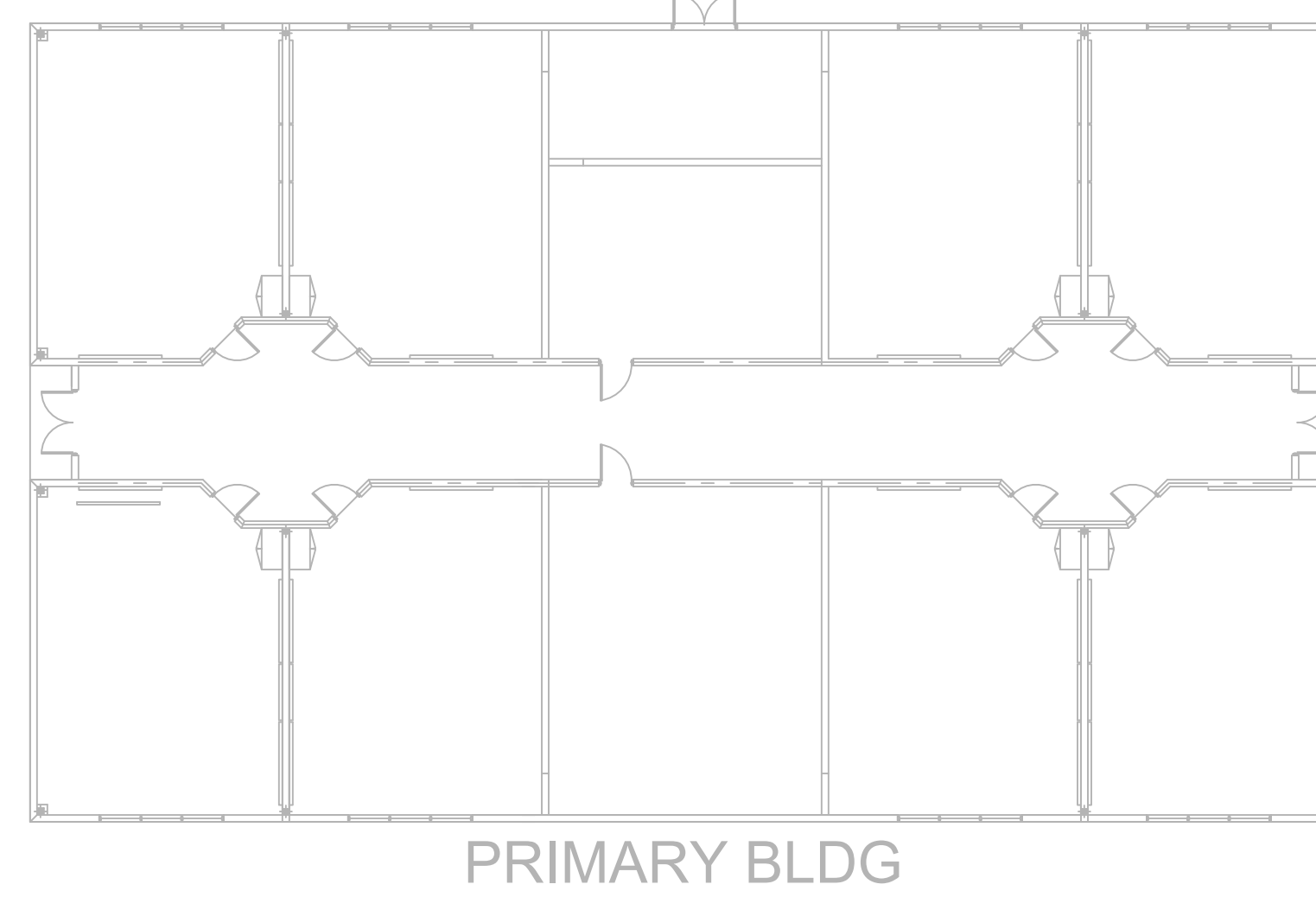
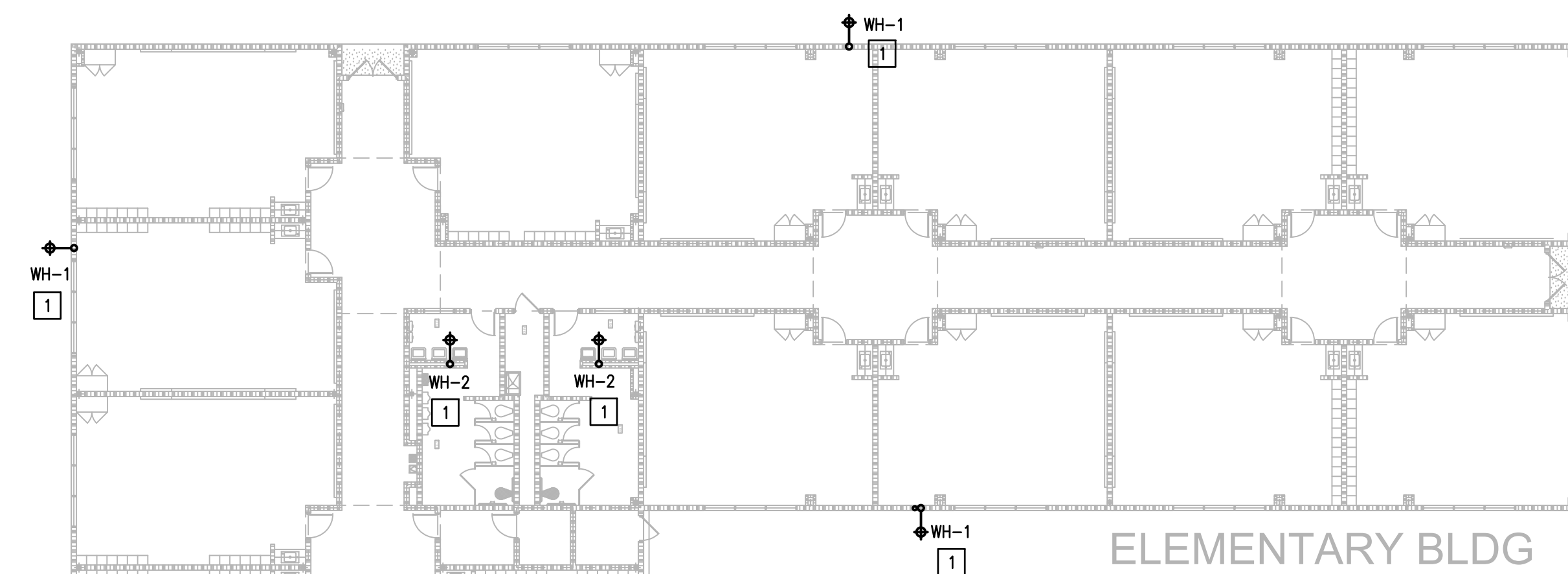
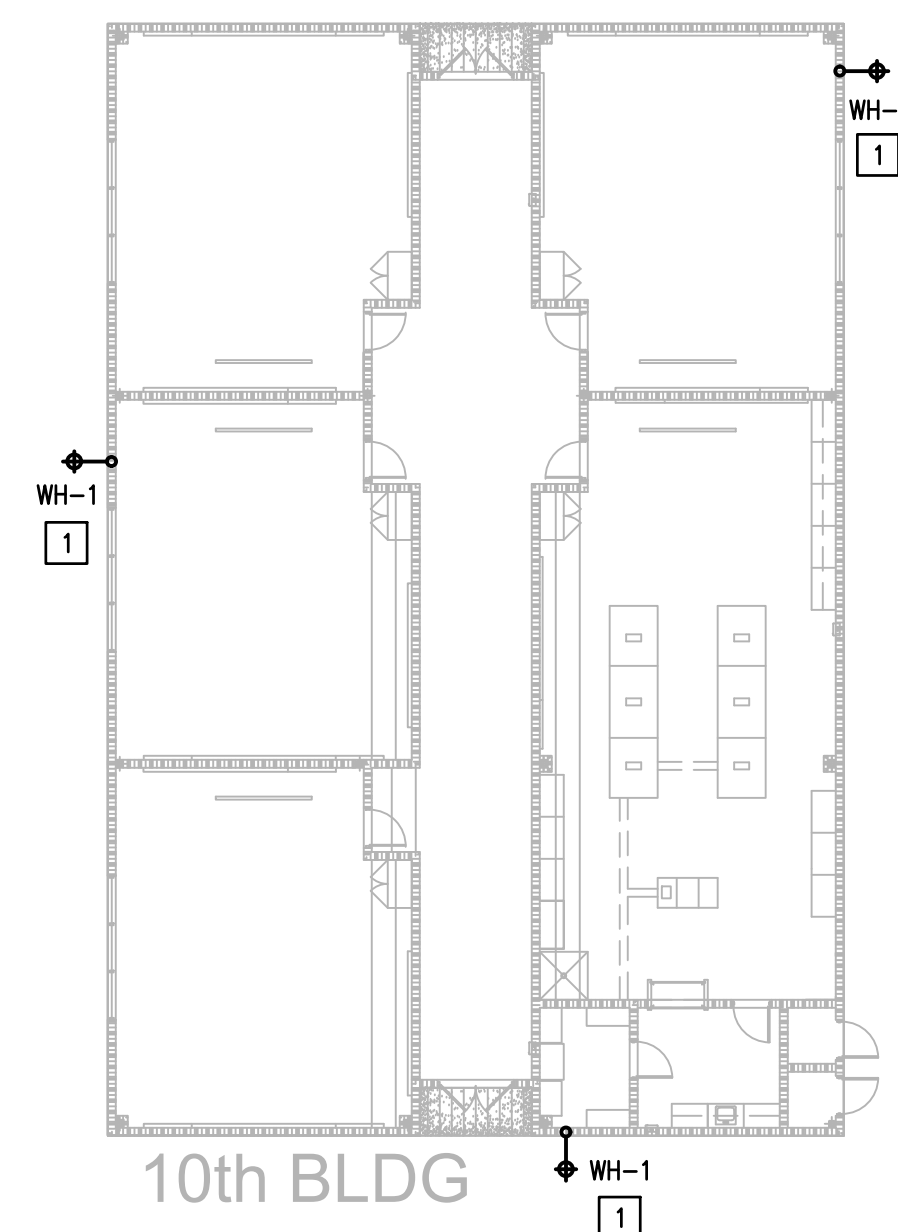
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PLUMBING KEYED NOTES:

- 1 REMOVE AND REPLACE WALL HYDRANT AT THIS APPROXIMATE LOCATION. SEE SCHEDULE ON SHEET P4.03.

PLUMBING LEGEND	
	WALL HYDRANT TO BE REPLACED



DONNA IDEA ACADEMY
KEYPLAN



PLUMBING FIXTURE SCHEDULE

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MARK	MANUFACTURER & MODEL NUMBER	DESCRIPTION	CONNECTIONS					REMARKS
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02 WH-2
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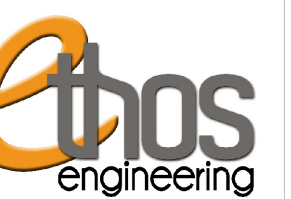
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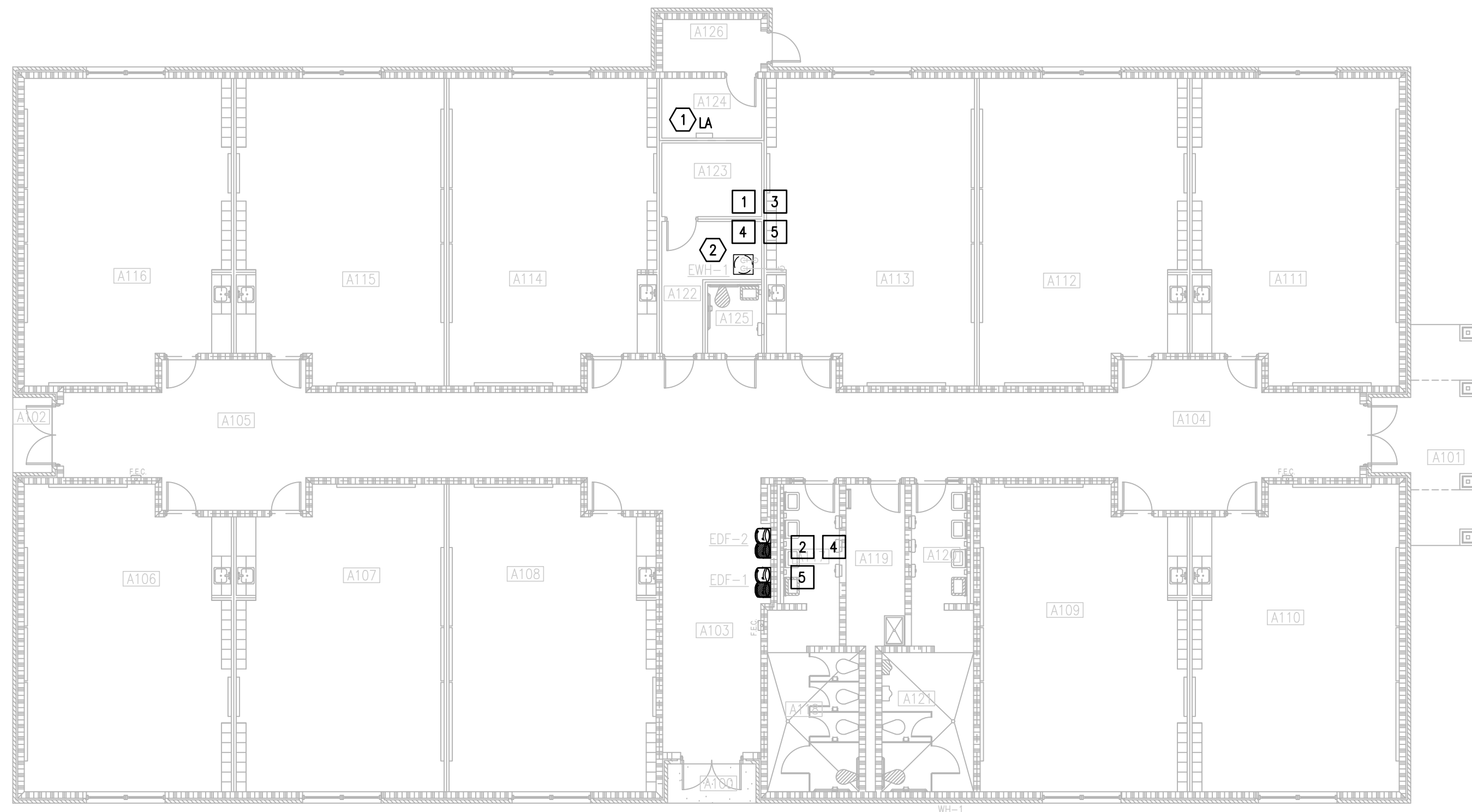
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SHEET:

P4.03



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DEMOLITION ELECTRICAL KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 DISCONNECT EXISTING ELECTRIC WATER HEATER FOR INSTALLATION OF NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT.

ELECTRICAL NEW KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 CONNECT NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT. IF EXISTING BRANCH CIRCUIT DOES NOT REACH NEW POINT OF CONNECTION PROVIDE A J-BOX AND EXTEND WIRING AS NECESSARY.

DEMOLITION GENERAL NOTES:

1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
2. A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION PLUMBING WORK. ALL INFORMATION SHOWN ON THE EXISTING CONSTRUCTION WILL BE REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR.
3. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF EXISTING NON REUSED PLUMBING EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
4. COORDINATE DEMOLITION OF DIVISION 22 SYSTEM AS REQUIRED WITH ALL OTHER TRADES.
5. ALL EXISTING EQUIPMENT AND MATERIALS REMOVED DURING CONSTRUCTION, THAT IS NOT TO BE REUSED, SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
6. COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT REMAIN.
7. PREPARE AREA FOR INSTALLATION OF NEW PLUMBING SYSTEMS. REFER TO NEW PLANS AND COORDINATE WITH DEMOLITION WORK.

DEMOLITION PLUMBING KEYED NOTES:

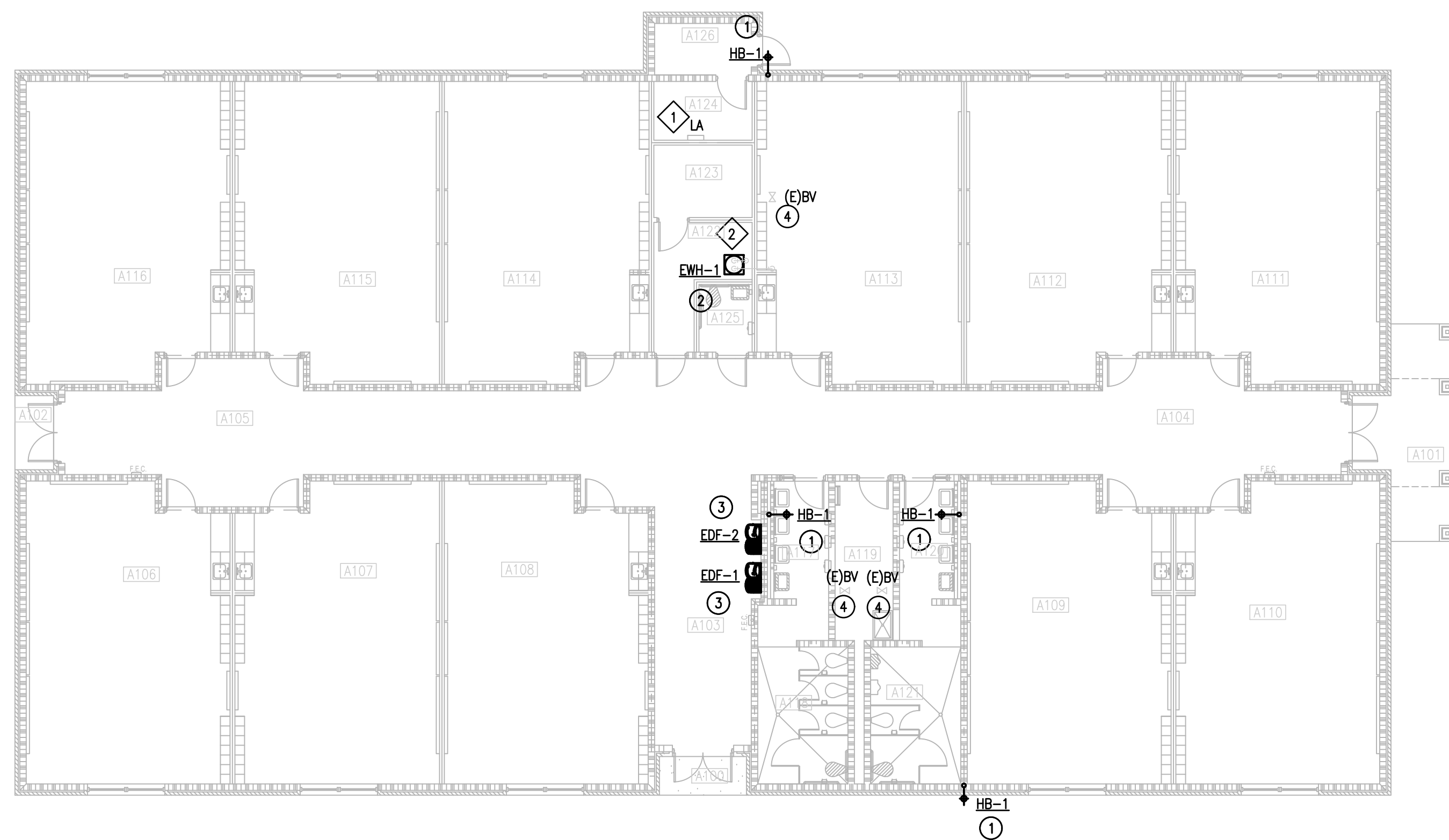
- 1 DEMOLISH EXISTING ELECTRIC WATER HEATER AT THIS APPROXIMATE LOCATION.
- 2 DEMOLISH EXISTING DRINKING FOUNTAINS AT THIS APPROXIMATE LOCATION.
- 3 ISOLATE AND DISCONNECT EXISTING COLD AND HOT WATER PIPES SERVING PLUMBING FIXTURE AT THIS APPROXIMATE LOCATION. CONNECT AFTER REPLACING.
- 4 DEMOLISH EXISTING PLUMBING FIXTURES MARKED ON PLANS.
- 5 PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

PLUMBING KEYED NOTES:

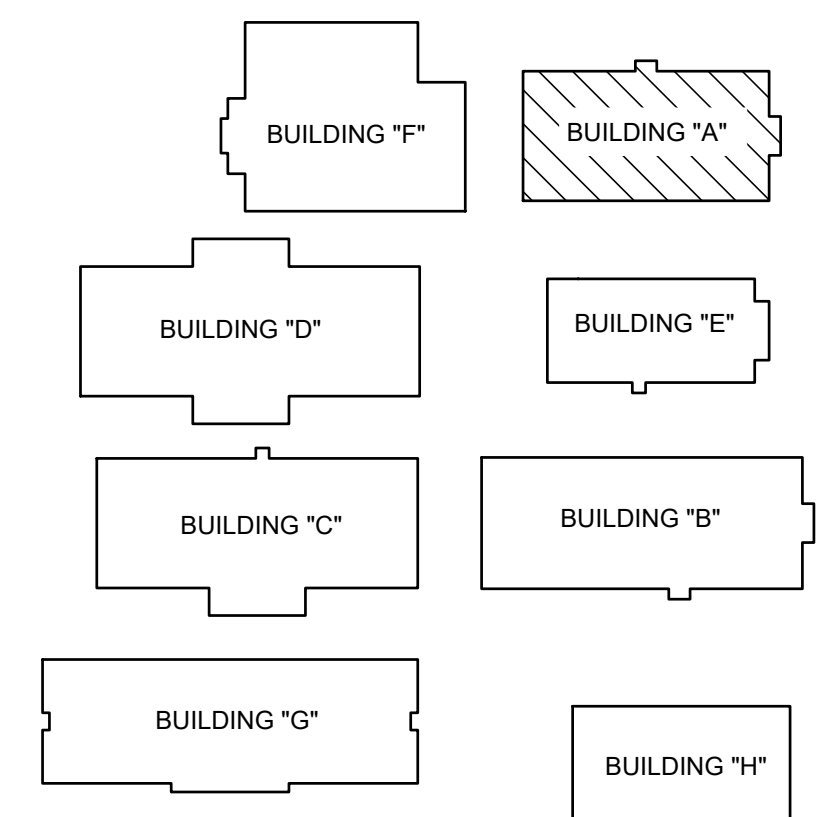
- 1 REMOVE AND REPLACE WALL HYDRANT AT THIS APPROXIMATE LOCATION. SEE SCHEDULE ON SHEET P5.11.
- 2 PROVIDE NEW ELECTRIC WATER HEATER EWH-1 AS PER SCHEDULE UNDER SCHEDULE SHEET P5.11 OR AN APPROVED EQUAL. ADJUST PLUMBING LINES AND FITTINGS TO THE NEW PLUMBING FIXTURE AS NECESSARY. REFER TO DETAIL ON DETAIL SHEET P5.11.
- 3 PROVIDE NEW DRINKING FOUNTAINS EDF-1&2 WITH NEW ONE INDICATED ON THE SCHEDULES. SEE P5.11 ADJUST PLUMBING LINES AND FITTINGS TO THE NEW PLUMBING FIXTURE AS NECESSARY AND REPAIR WALL TO MATCH EXISTING CONDITIONS IF NECESSARY.
- 4 APPROXIMATE LOCATION OF EXISTING ISOLATION VALVE. FIELD VERIFY EXACT LOCATION.

PLUMBING LEGEND	
---	TO BE DEMOLISHED
⊕	WALL HYDRANT TO BE REPLACED

IDEA FRONTIER
01 DEMOLITION ELECTRICAL AND PLUMBING PLAN (BUILDING A)
SCALE : 3/32" = 1'-0"



IDEA FRONTIER
02 NEW ELECTRICAL AND PLUMBING PLAN (BUILDING A)
SCALE : 3/32" = 1'-0"



FRONTIER IDEA ACADEMY
KEYPLAN

NO. REVISION: BY:

COPY NO:

CSP # 27-LRP-0424



TEXAS

IDEA PUBLIC SCHOOLS
LOWER RGV PLUMBING UPGRADES

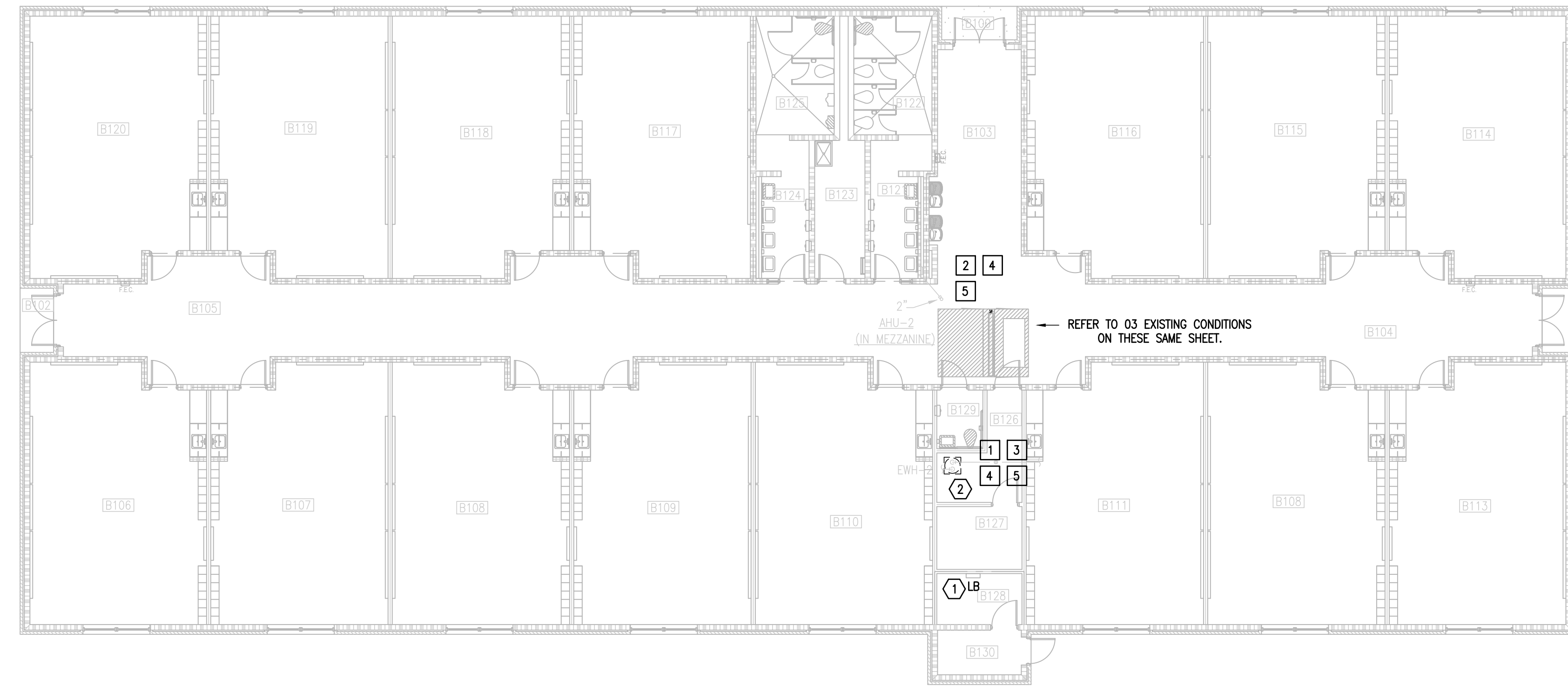
RIO GRANDE VALLEY



1128 SOUTH COMMERCE ST.
HARLINGEN, TX
PHONE: 361-205-3435
TEXAS REGISTERED
ENGINEERING FIRM
E-15998

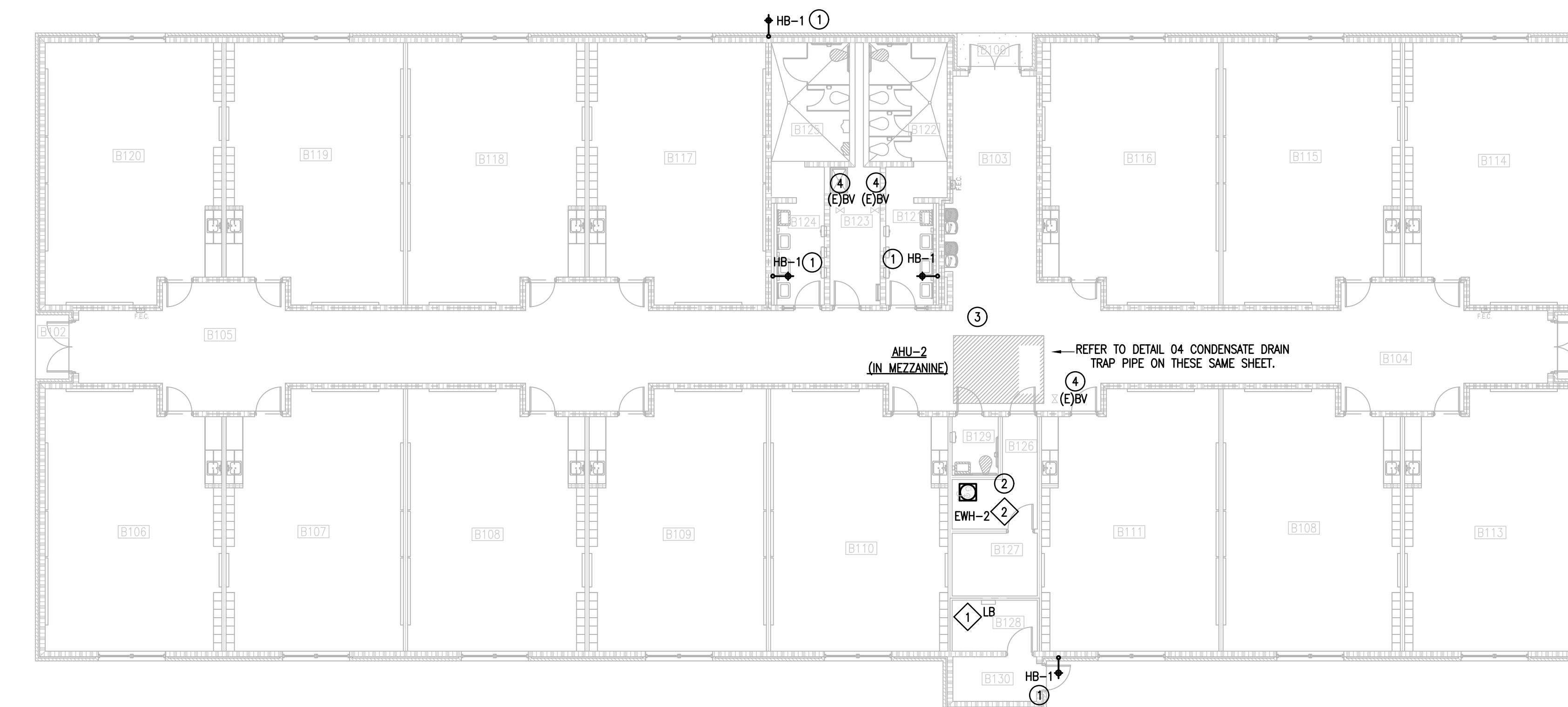
DATE: APRIL 19, 2024
CHECKED BY: C.A.G.
DRAWN BY: J.V.
PROJECT NO.: 23v82
CAD FILE:
SHEET:

P5.01



01 IDEA FRONTIER
DEMOLITION ELECTRICAL AND PLUMBING PLAN
SCALE : 3/32" = 1'-0"

(BUILDING B)



02 IDEA FRONTIER
NEW ELECTRICAL AND PLUMBING PLAN
SCALE : 3/32" = 1'-0"

(BUILDING B)

DEMOLITION ELECTRICAL KEYED NOTES:

- ① APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- ② DISCONNECT EXISTING ELECTRIC WATER HEATER FOR INSTALLATION OF NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT.

ELECTRICAL NEW KEYED NOTES:

- ① APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- ② CONNECT NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT. IF EXISTING BRANCH CIRCUIT DOES NOT REACH NEW POINT OF CONNECTION PROVIDE A J-BOX AND EXTEND WIRING AS NECESSARY.

PLUMBING LEGEND	
	TO BE DEMOLISHED
	WALL HYDRANT TO BE REPLACED

DEMOLITION GENERAL NOTES:

- 1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
- 2. A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION PLUMBING WORK. ALL INFORMATION SHOWN ON THE EXISTING CONSTRUCTION WILL BE REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR.
- 3. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF EXISTING NON REUSED PLUMBING EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
- 4. COORDINATE DEMOLITION OF DIVISION 22 SYSTEM AS REQUIRED WITH ALL OTHER TRADES.
- 5. ALL EXISTING EQUIPMENT AND MATERIALS REMOVED DURING CONSTRUCTION, THAT IS NOT TO BE REUSED, SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
- 6. COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT REMAIN.
- 7. PREPARE AREA FOR INSTALLATION OF NEW PLUMBING SYSTEMS. REFER TO NEW PLANS AND COORDINATE WITH DEMOLITION WORK.

GENERAL NOTES:

- 1. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
- 2. FOR ALL WALL HYDRANTS BEING REPLACED, CONTRACTOR SHALL RETAIN EXISTING BOX/ENCLOSURE AND SHALL REPLACE ALL INTERNAL COMPONENTS. IT WILL BE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AN EQUAL/SIMILAR HYDRANT TO FIT INTO EXISTING BOX/ENCLOSURE.
- 3. PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

DEMOLITION PLUMBING KEYED NOTES:

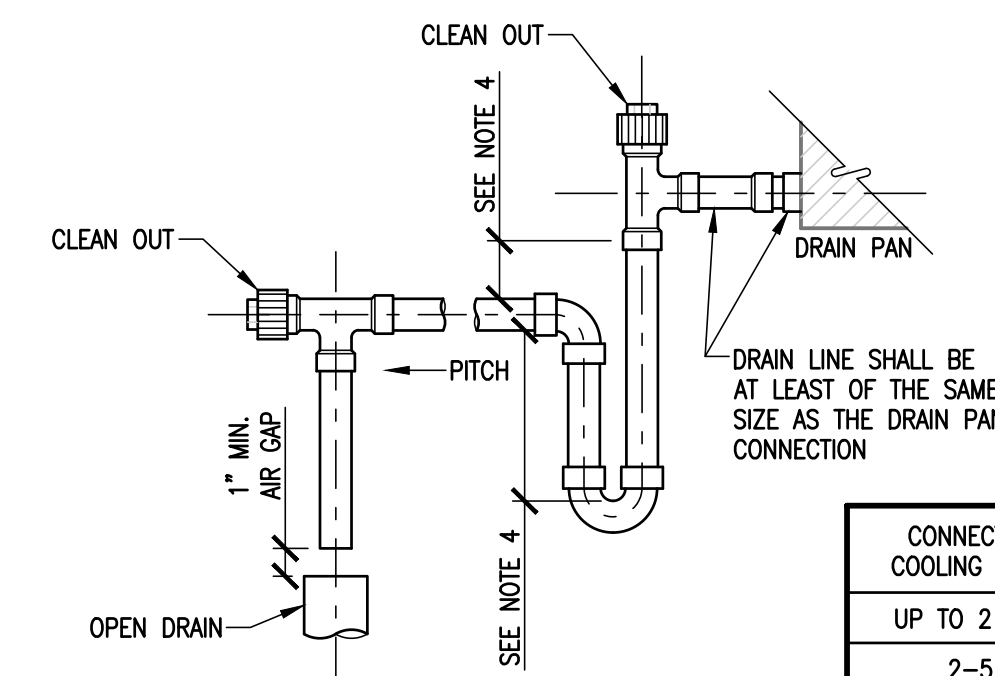
- ① DEMOLISH EXISTING ELECTRIC WATER HEATER AT THIS APPROXIMATE LOCATION.
- ② DEMOLISH EXISTING CONDENSATE PIPING SERVING HVAC EQUIPMENT AT THIS APPROXIMATE LOCATION.
- ③ ISOLATE AND DISCONNECT EXISTING COLD AND HOT WATER PIPES SERVING PLUMBING FIXTURE AT THIS APPROXIMATE LOCATION. CONNECT AFTER REPLACING.
- ④ DEMOLISH EXISTING PLUMBING FIXTURES MARKED ON PLANS.
- ⑤ PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

PLUMBING KEYED NOTES:

- ① REMOVE AND REPLACE WALL HYDRANT AT THIS APPROXIMATE LOCATION. SEE SCHEDULE ON SHEET P5.11.
- ② PROVIDE NEW ELECTRIC WATER HEATER EWH-2 AS PER SCHEDULE UNDER SCHEDULE SHEET P5.11 OR AN APPROVED EQUAL. ADJUST PLUMBING LINES AND FITTINGS TO THE NEW PLUMBING FIXTURE AS NECESSARY. REFER TO DETAIL ON DETAIL SHEET P5.11.
- ③ PROVIDE NEW 2" SOFT COPPER PIPING FOR CONDENSATE DRAIN LINE OF EXISTING AIR CONDITIONING UNIT AT THIS APPROXIMATE LOCATION. PROVIDE 1" THICK FLEXIBLE ELECTROMETRIC INSULATION FOR NEW CONDENSATE PIPING AND CONNECT INTO EXISTING HUB DRAIN. NEW CONDENSATE PIPE SHALL BE SIZED AS PER AIR CONDITIONING UNIT MANUFACTURER RECOMMENDATIONS. ENSURE TO NOT PROVIDE A SMALLER PIPE SIZE THAN EXISTING.
- ④ APPROXIMATE LOCATION OF EXISTING ISOLATION VALVE. FIELD VERIFY EXACT LOCATION.



03 IDEA FRONTIER
EXISTING CONDITIONS (BUILDING B - MEZZANINE)
SCALE : NOT TO SCALE

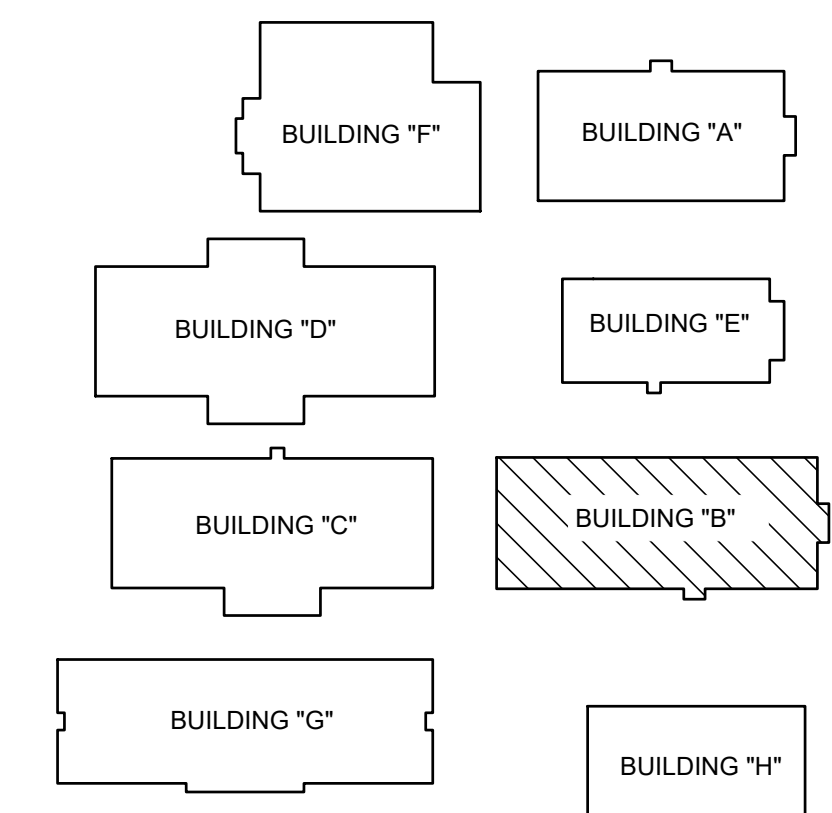


- NOTES:**
- 1. MANUALLY PRIME TRAP BEFORE START UP.
 - 2. SUPPORT DRAIN LINES TO PREVENT SAG.
 - 3. ALLOW SUFFICIENT SPACE BELOW PAN FOR TRAP AND PITCH TO DRAIN.
 - 4. COORDINATE WITH MANUFACTURER OF AHU.

CONNECTED COOLING LOAD	MIN. PIPE SIZE
UP TO 2 TON	3/4"
2-5	1"
5-30	1-1/4"
30-50	1-1/2"
50-160	2"
160-300	3"
300-430	4"

* NOT SMALLER THAN OUTLET SIZE.

04 CONDENSATE DRAIN
TRAP PIPE
SCALE : NOT TO SCALE



FRONTIER IDEA ACADEMY
KEYPLAN

NO. REVISION: BY:

COPY NO:

CSP # 27-LRP-0424



TEXAS

IDEA PUBLIC SCHOOLS
 LOWER RGV PLUMBING UPGRADES

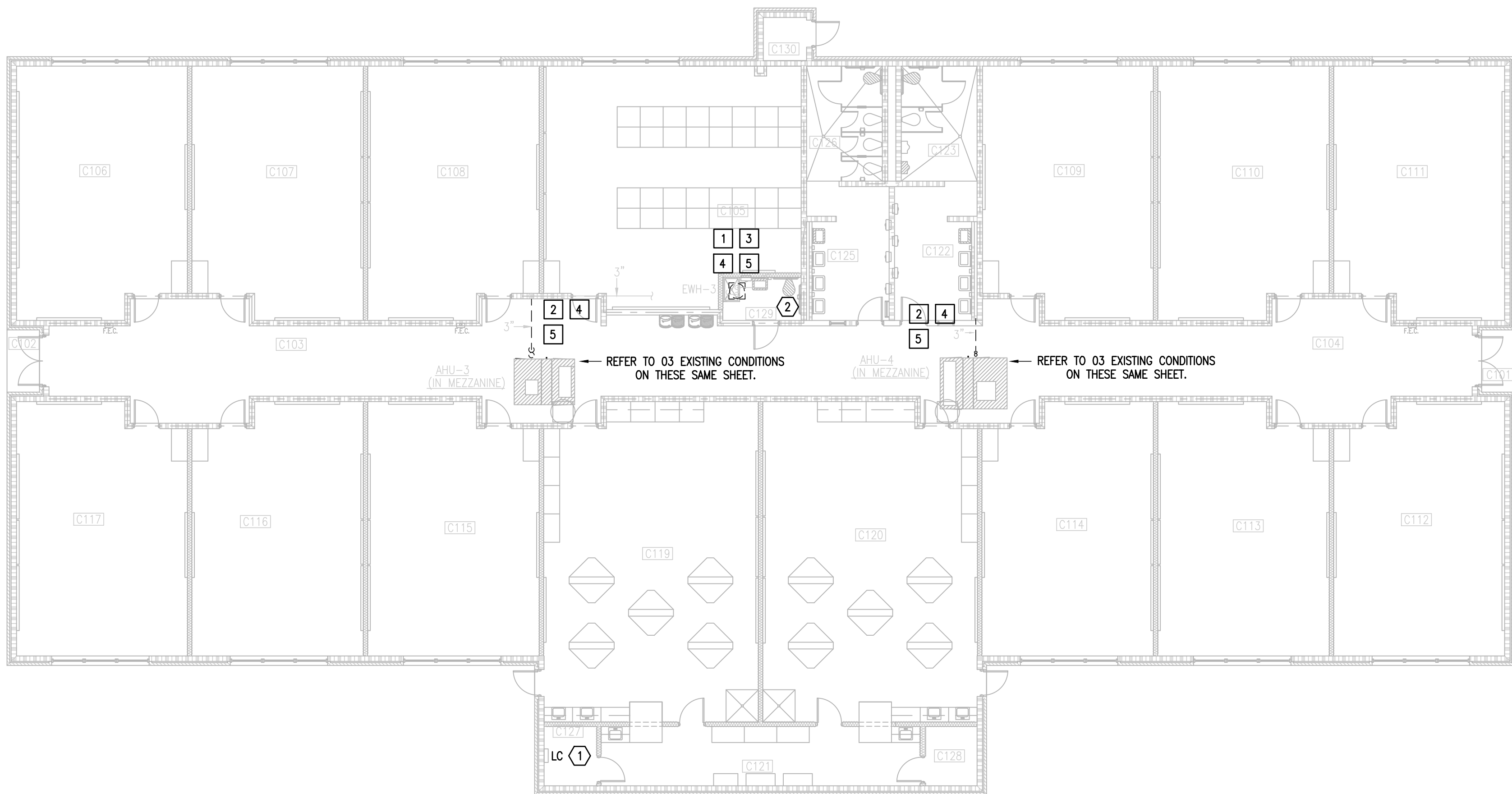
RIO GRANDE VALLEY



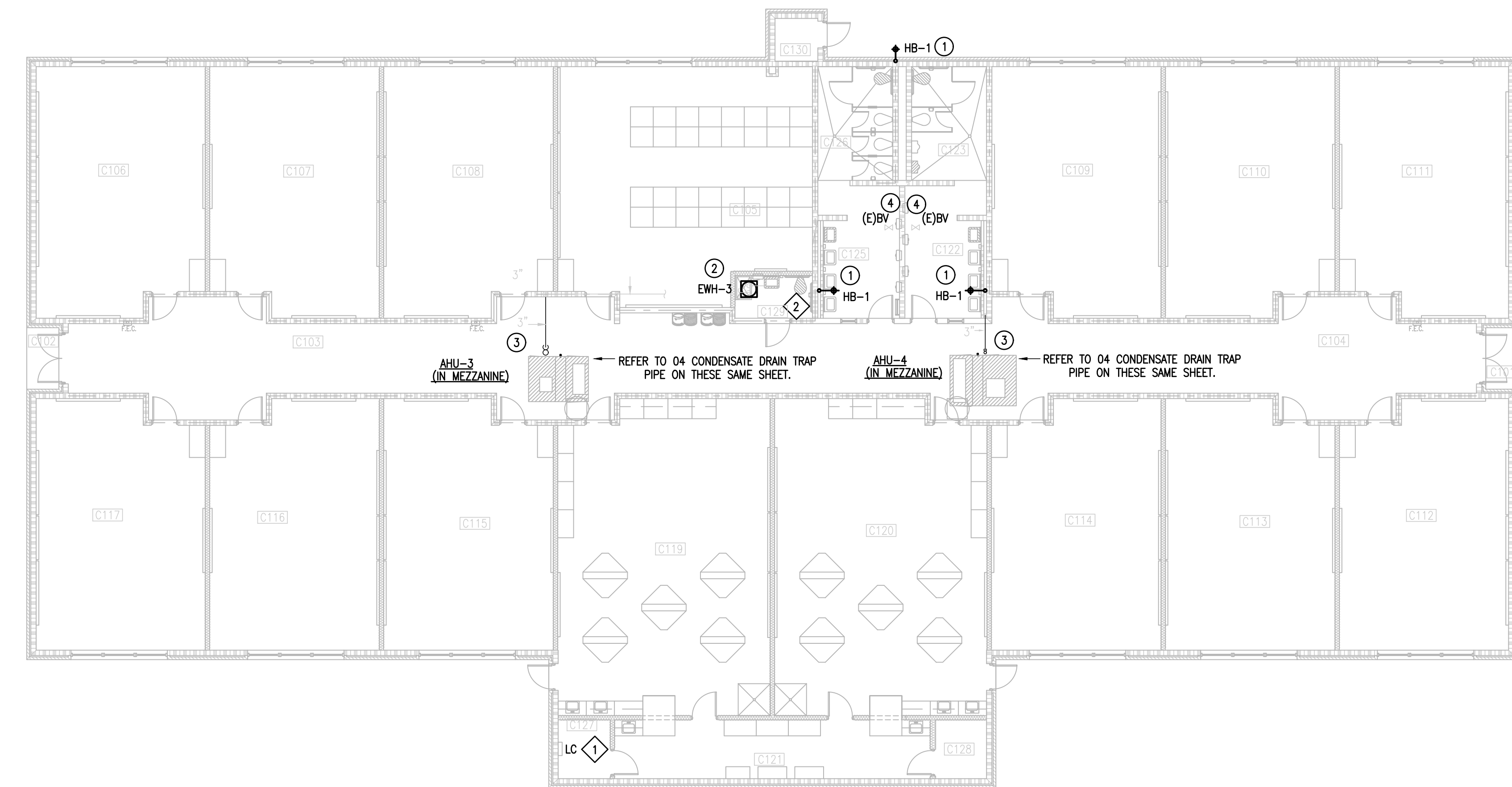
1128 SOUTH COMMERCE ST.
MARLINGTON, TX
PHONE: 855-205-2455
TEXAS REGISTERED
ENGINEERING FIRM
E-15998

DATE: APRIL 19, 2024
CHECKED BY: C.A.G.
DRAWN BY: J.V.
PROJECT NO.: 23v82
CAD FILE:
SHEET:

P5.02



IDEA FRONTIER
01 DEMOLITION ELECTRICAL AND PLUMBING PLAN (BUILDING C)
SCALE: 3/32" = 1'-0"



IDEA FRONTIER
02 NEW ELECTRICAL AND PLUMBING PLAN (BUILDING C)
SCALE: 3/32" = 1'-0"

GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
2. FOR ALL WALL HYDRANTS BEING REPLACED, CONTRACTOR SHALL RETAIN EXISTING BOX/ENCLOSURE AND SHALL REPLACE ALL INTERNAL COMPONENTS. IT WILL BE CONTRACTOR RESPONSIBILITY TO PROVIDE AN EQUAL/SIMILAR HYDRANT TO FIT INTO EXISTING BOX/ENCLOSURE.
3. PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

DEMOLITION ELECTRICAL KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 DISCONNECT EXISTING ELECTRIC WATER HEATER FOR INSTALLATION OF NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT.

ELECTRICAL NEW KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 CONNECT NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT. IF EXISTING BRANCH CIRCUIT DOES NOT REACH NEW POINT OF CONNECTION PROVIDE A J-BOX AND EXTEND WIRING AS NECESSARY.

DEMOLITION GENERAL NOTES:

1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
2. A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION PLUMBING WORK. ALL INFORMATION SHOWN ON THE EXISTING CONSTRUCTION WILL BE REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR.
3. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF EXISTING NON REUSED PLUMBING EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
4. COORDINATE DEMOLITION OF DIVISION 22 SYSTEM AS REQUIRED WITH ALL OTHER TRADES.
5. ALL EXISTING EQUIPMENT AND MATERIALS REMOVED DURING CONSTRUCTION, THAT IS NOT TO BE REUSED, SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
6. COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT REMAIN.
7. PREPARE AREA FOR INSTALLATION OF NEW PLUMBING SYSTEMS. REFER TO NEW PLANS AND COORDINATE WITH DEMOLITION WORK.

DEMOLITION PLUMBING KEYED NOTES:

- 1 DEMOLISH EXISTING ELECTRIC WATER HEATER AT THIS APPROXIMATE LOCATION.
- 2 DEMOLISH EXISTING CONDENSATE PIPING THAT WILL NO LONGER BE USED AT THIS APPROXIMATE LOCATION NEAR THE 2" HUB DRAIN ON THE MEZZANINE.
- 3 ISOLATE AND DISCONNECT EXISTING COLD AND HOT WATER PIPES SERVING PLUMBING FIXTURE AT THIS APPROXIMATE LOCATION. CONNECT AFTER REPLACING.
- 4 DEMOLISH EXISTING PLUMBING FIXTURES MARKED ON PLANS.
- 5 PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

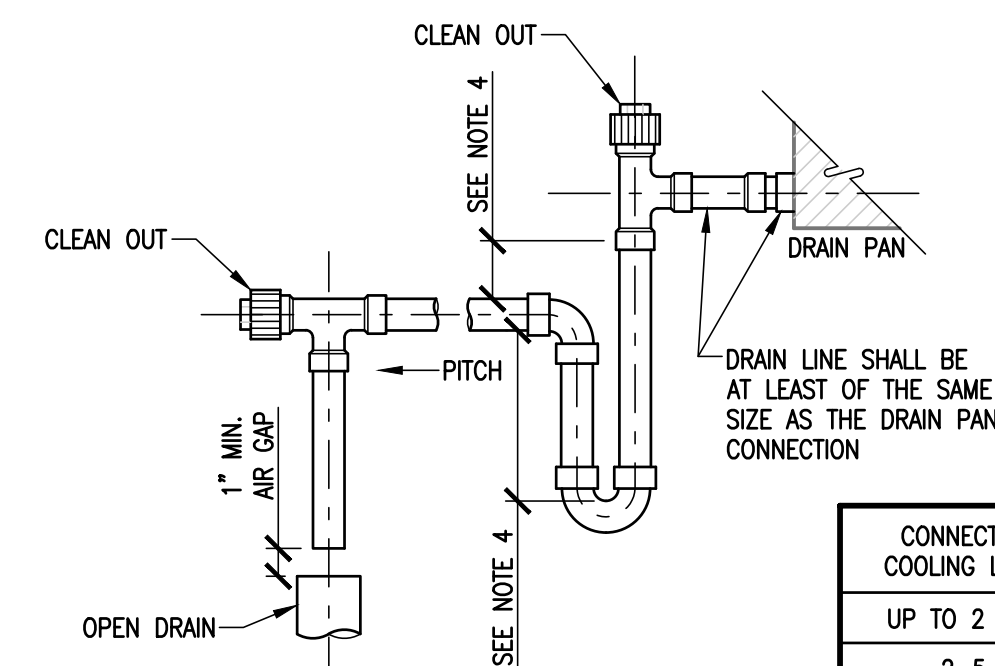
PLUMBING KEYED NOTES:

- 1 REMOVE AND REPLACE WALL HYDRANT AT THIS APPROXIMATE LOCATION. SEE SCHEDULE ON SHEET P5.11.
- 2 PROVIDE NEW ELECTRIC WATER HEATER EWH-3 AS PER SCHEDULE UNDER SCHEDULE SHEET P5.11 OR AN APPROVED EQUAL. ADJUST PLUMBING LINES AND FITTINGS TO THE NEW PLUMBING FIXTURE AS NECESSARY. REFER TO DETAIL ON DETAIL SHEET P5.11.
- 3 PROVIDE NEW 1-1/2" SOFT COPPER PIPING FOR CONDENSATE DRAIN LINE OF EXISTING AIR CONDITIONING UNIT AT THIS APPROXIMATE LOCATION. PROVIDE 1" THICK FLEXIBLE ELECTROMETRIC INSULATION FOR NEW CONDENSATE PIPING AND CONNECT INTO EXISTING HUB DRAIN. NEW CONDENSATE PIPE SHALL BE SIZED AS PER AIR CONDITIONING UNIT MANUFACTURER RECOMMENDATIONS. ENSURE TO NOT PROVIDE A SMALLER PIPE SIZE THAN EXISTING.
- 4 APPROXIMATE LOCATION OF EXISTING ISOLATION VALVE. FIELD VERIFY EXACT LOCATION.

EXISTING CONDENSATE PIPING TO BE REMOVED AND REPLACED



IDEA FRONTIER
03 EXISTING CONDITIONS AHU-3&4 (BUILDING C - MEZZANINE)
SCALE: NOT TO SCALE

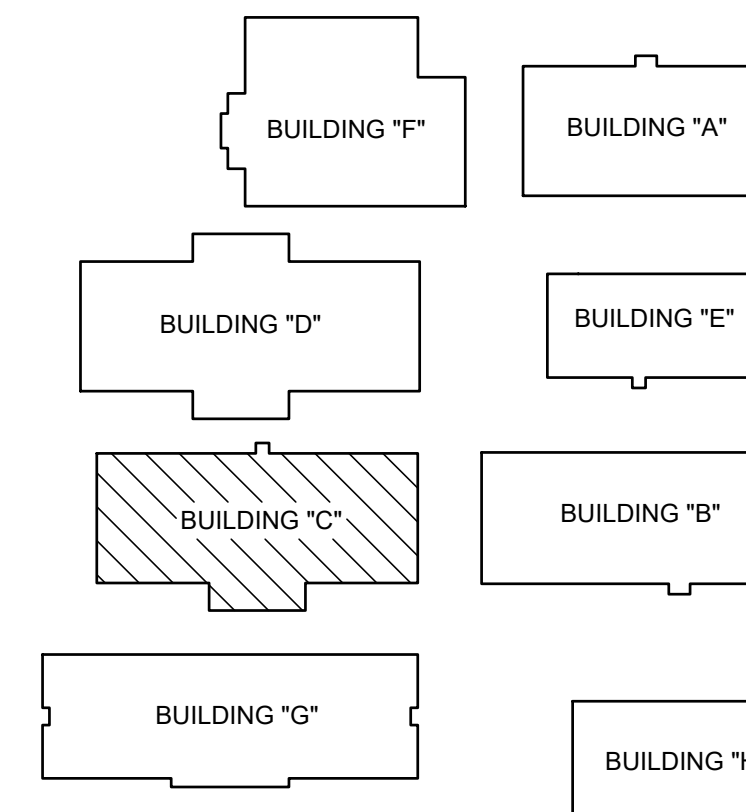


- NOTES:
1. MANUALLY PRIME TRAP BEFORE START UP.
 2. SUPPORT DRAIN LINES TO PREVENT SAG.
 3. ALLOW SUFFICIENT SPACE BELOW PAN FOR TRAP AND PITCH TO DRAIN.
 4. COORDINATE WITH MANUFACTURER OF AHU.

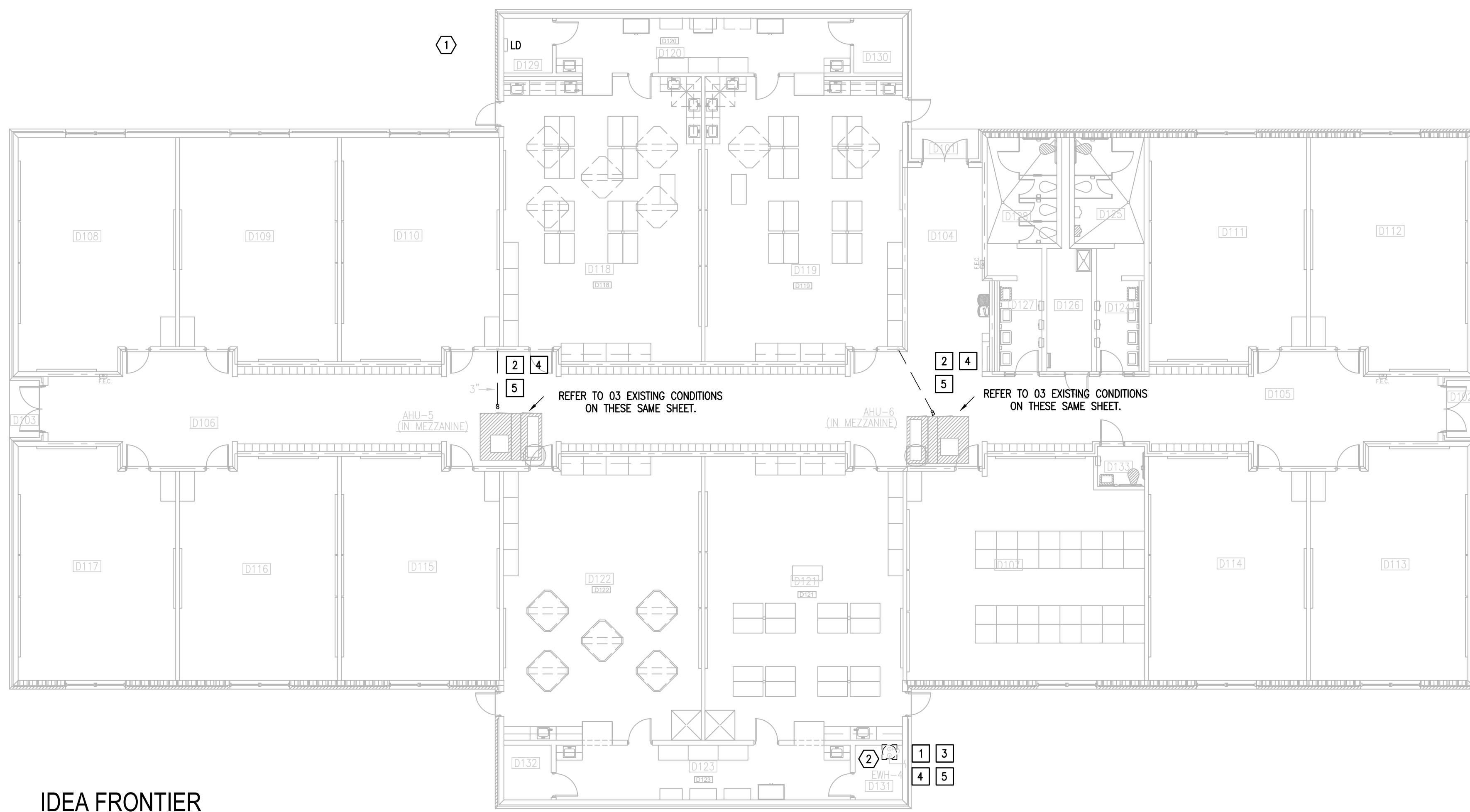
CONNECTED COOLING LOAD	MIN. * PIPE SIZE
UP TO 2 TON	3/4"
2-5	1"
5-30	1-1/4"
30-50	1-1/2"
50-160	2"
160-300	3"
300-430	4"

* NOT SMALLER THAN OUTLET SIZE.

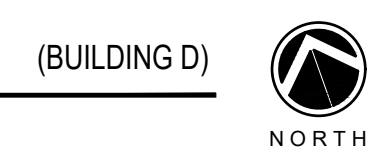
PLUMBING LEGEND	
---	TO BE DEMOLISHED
---	NEW CONDENSATE PIPE
⊕	WALL HYDRANT TO BE REPLACED



FRONTIER IDEA ACADEMY
KEYPLAN



01 IDEA FRONTIER
DEMOLITION ELECTRICAL AND PLUMBING PLAN (BUILDING D)
SCALE : 3/32" = 1'-0"



GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
2. FOR ALL WALL HYDRANTS BEING REPLACED, CONTRACTOR SHALL RETAIN EXISTING BOX/ENCLOSURE AND SHALL REPLACE ALL INTERNAL COMPONENTS. IT WILL BE CONTRACTOR RESPONSIBILITY TO PROVIDE AN EQUAL/SIMILAR HYDRANT TO FIT INTO EXISTING BOX/ENCLOSURE.
3. PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

DEMOLITION ELECTRICAL KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 DISCONNECT EXISTING ELECTRIC WATER HEATER FOR INSTALLATION OF NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT.

ELECTRICAL NEW KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 CONNECT NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT. IF EXISTING BRANCH CIRCUIT DOES NOT REACH NEW POINT OF CONNECTION PROVIDE A J-BOX AND EXTEND WIRING AS NECESSARY.

DEMOLITION GENERAL NOTES:

1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
2. A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION PLUMBING WORK. ALL INFORMATION SHOWN ON THE EXISTING CONSTRUCTION WILL BE REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR.
3. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF EXISTING NON REUSED PLUMBING EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
4. COORDINATE DEMOLITION OF DIVISION 22 SYSTEM AS REQUIRED WITH ALL OTHER TRADES.
5. ALL EXISTING EQUIPMENT AND MATERIALS REMOVED DURING CONSTRUCTION, THAT IS NOT TO BE REUSED, SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
6. COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT REMAIN.
7. PREPARE AREA FOR INSTALLATION OF NEW PLUMBING SYSTEMS. REFER TO NEW PLANS AND COORDINATE WITH DEMOLITION WORK.

DEMOLITION PLUMBING KEYED NOTES:

- 1 DEMOLISH EXISTING ELECTRIC WATER HEATER AT THIS APPROXIMATE LOCATION.
- 2 DEMOLISH EXISTING CONDENSATE PIPING THAT WILL NO LONGER BE USED AT THIS APPROXIMATE LOCATION NEAR THE 2" HUB DRAIN ON THE MEZZANINE.
- 3 ISOLATE AND DISCONNECT EXISTING COLD AND HOT WATER PIPES SERVING PLUMBING FIXTURE AT THIS APPROXIMATE LOCATION. CONNECT AFTER REPLACING.
- 4 DEMOLISH EXISTING PLUMBING FIXTURES MARKED ON PLANS.
- 5 PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

PLUMBING KEYED NOTES:

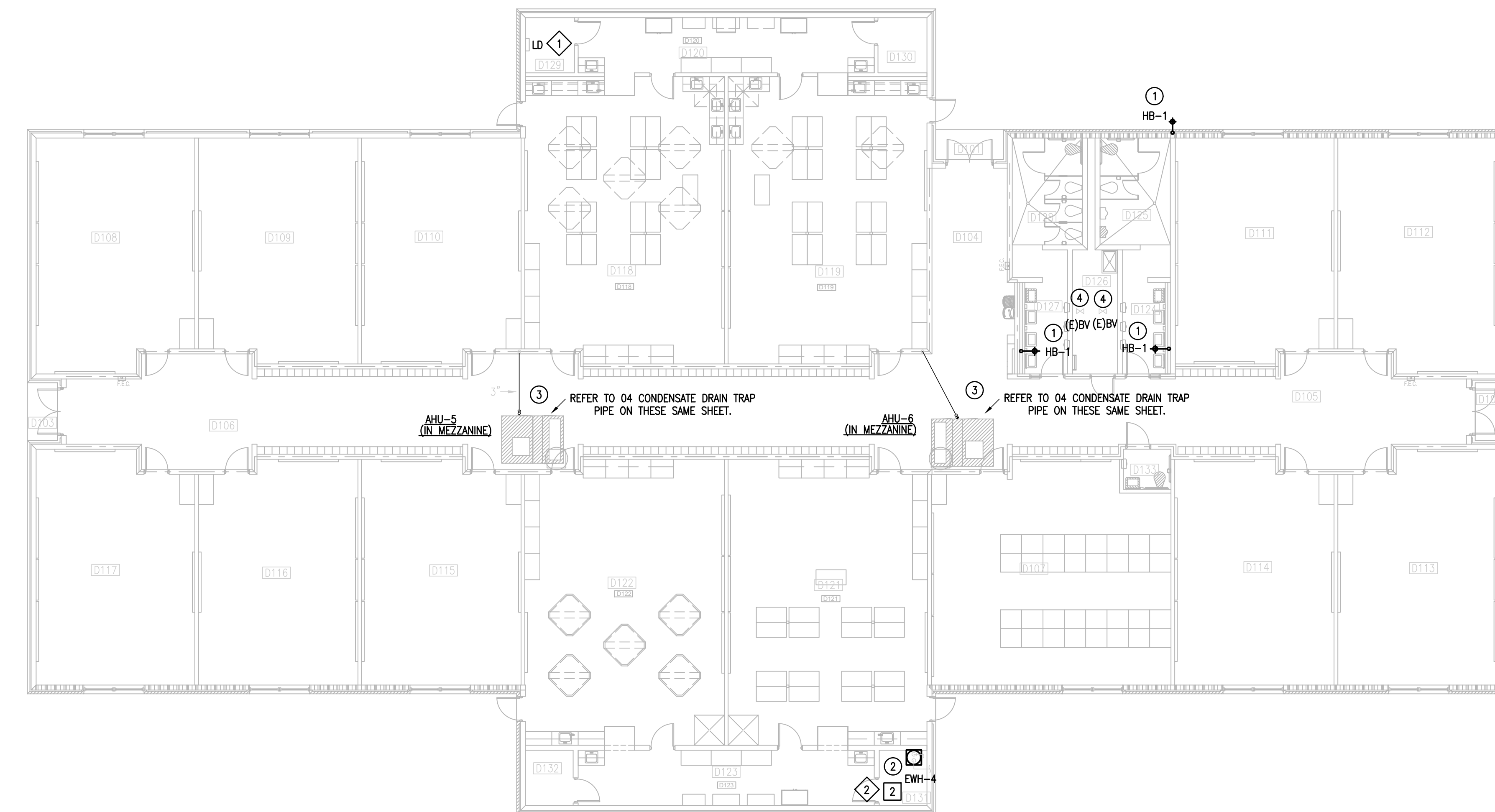
- 1 REMOVE AND REPLACE WALL HYDRANT AT THIS APPROXIMATE LOCATION. SEE SCHEDULE ON SHEET P5.11.
- 2 PROVIDE NEW ELECTRIC WATER HEATER EWH-4 AS PER SCHEDULE UNDER SCHEDULE SHEET P5.11 OR AN APPROVED EQUAL. ADJUST PLUMBING LINES AND FITTINGS TO THE NEW PLUMBING FIXTURE AS NECESSARY. REFER TO DETAIL ON DETAIL SHEET P5.11.
- 3 PROVIDE NEW 1-1/2" SOFT COPPER PIPING FOR CONDENSATE DRAIN LINE OF EXISTING AIR CONDITIONING UNIT AT THIS APPROXIMATE LOCATION. PROVIDE 1" THICK FLEXIBLE ELECTROMETRIC INSULATION FOR NEW CONDENSATE PIPING AND CONNECT INTO EXISTING HUB DRAIN. NEW CONDENSATE PIPE SHALL BE SIZED AS PER AIR CONDITIONING UNIT MANUFACTURER RECOMMENDATIONS. ENSURE TO NOT PROVIDE A SMALLER PIPE SIZE THAN EXISTING.
- 4 APPROXIMATE LOCATION OF EXISTING ISOLATION VALVE. FIELD VERIFY EXACT LOCATION.

PLUMBING LEGEND	
---	TO BE DEMOLISHED
---	NEW CONDENSATE PIPE
⊕	WALL HYDRANT TO BE REPLACED

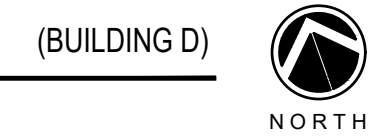


EXISTING CONDENSATE PIPING TO BE REMOVED AND REPLACED

03 IDEA FRONTIER
EXISTING CONDITIONS AHU-5&6 (BUILDING D - MEZZANINE)
SCALE : NOT TO SCALE

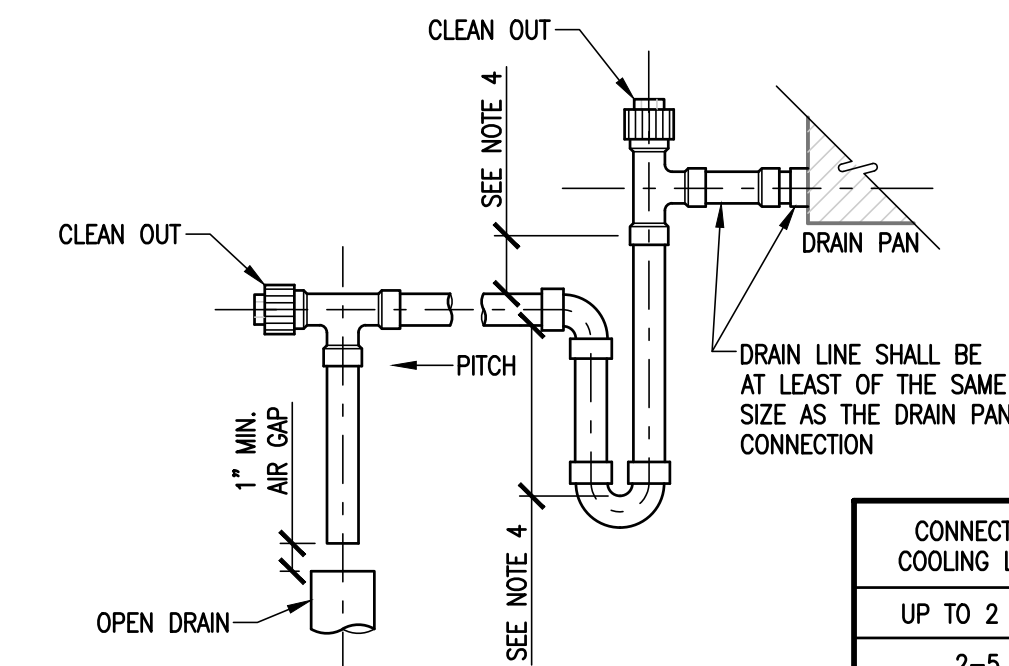


02 IDEA FRONTIER
NEW ELECTRICAL AND PLUMBING PLAN (BUILDING D)
SCALE : 3/32" = 1'-0"



CONDENSATE DRAIN TRAP PIPE

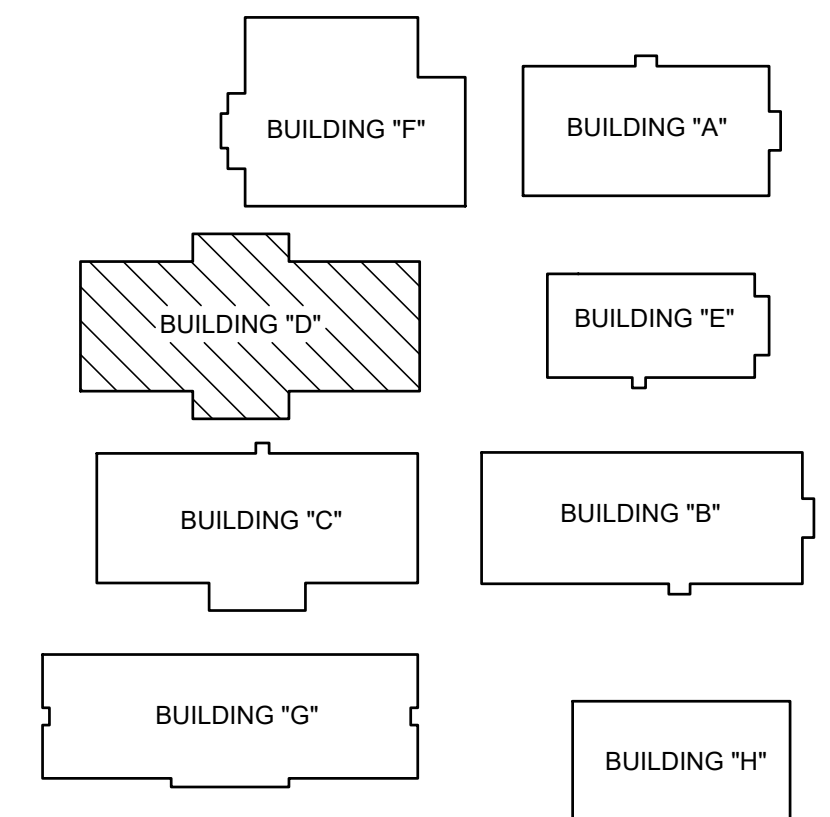
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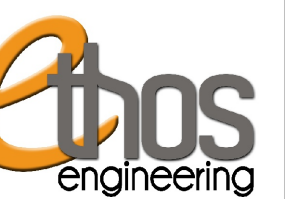
- NOTES:**
1. MANUALLY PRIME TRAP BEFORE START UP.
 2. SUPPORT DRAIN LINES TO PREVENT SAG.
 3. ALLOW SUFFICIENT SPACE BELOW PAN FOR TRAP AND PITCH TO DRAIN.
 4. COORDINATE WITH MANUFACTURER OF AHU.

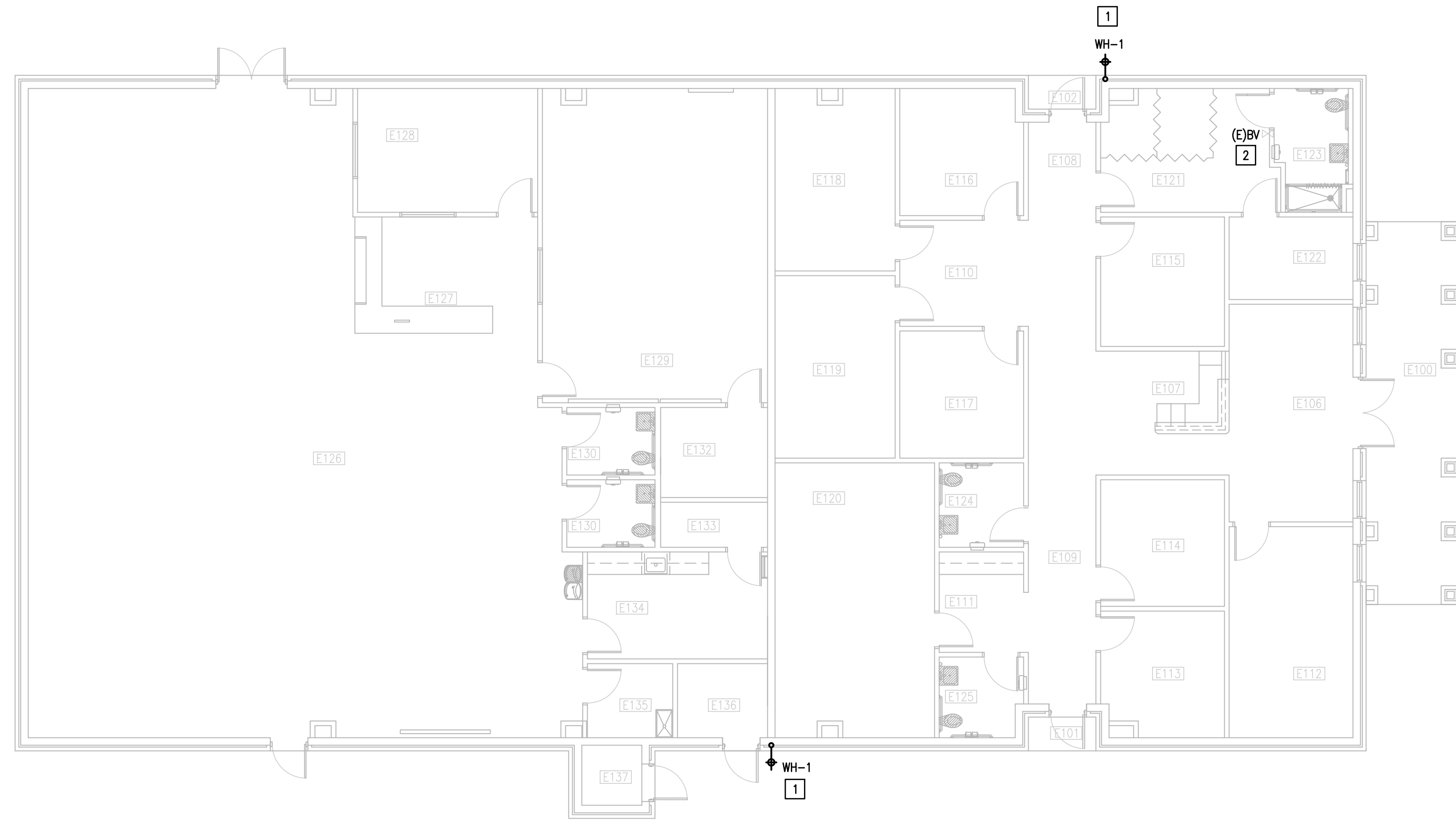
CONNECTED COOLING LOAD	MIN. * PIPE SIZE
UP TO 2 TON	3/4"
2-5	1"
5-30	1-1/4"
30-50	1-1/2"
50-160	2"
160-300	3"
300-430	4"

* NOT SMALLER THAN OUTLET SIZE.



FRONTIER IDEA ACADEMY
KEYPLAN





01 IDEA FRONTIER
PLUMBING PLAN

(BUILDING E)



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

GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
2. FOR ALL WALL HYDRANTS BEING REPLACED, CONTRACTOR SHALL RETAIN EXISTING BOX/ENCLOSURE AND SHALL REPLACE ALL INTERNAL COMPONENTS. IT WILL BE CONTRACTOR RESPONSIBILITY TO PROVIDE AN EQUAL/SIMILAR HYDRANT TO FIT INTO EXISTING BOX/ENCLOSURE.
3. PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

PLUMBING KEYED NOTES:

- 1 REMOVE AND REPLACE WALL HYDRANT/HOSE BIB, AT THIS APPROXIMATE LOCATION. SEE SCHEDULE ON SHEET P5.11.
- 2 APPROXIMATE LOCATION OF EXISTING ISOLATION VALVE. FIELD VERIFY EXACT LOCATION.

PLUMBING LEGEND	
	WALL HYDRANT TO BE REPLACED

NO. REVISION: BY:

COPY NO:

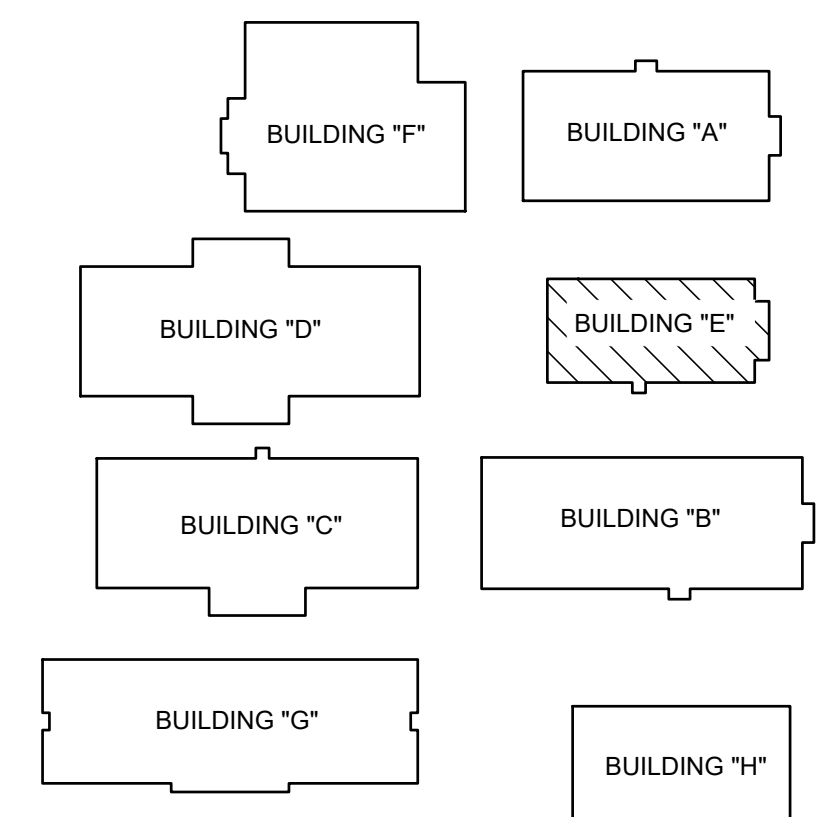
CSP # 27-LRPU-0424



TEXAS

IDEA PUBLIC SCHOOLS
LOWER RGV PLUMBING UPGRADES

RIO GRANDE VALLEY



FRONTIER IDEA ACADEMY
KEYPLAN



1128 SOUTH COMMERCE ST.
HARLINGEN, TX
PHONE: 361-205-3435
TEXAS REGISTERED
ENGINEERING FIRM
E-15598

DATE: APRIL 19, 2024

CHECKED BY: C.A.G.

DRAWN BY: J.V.

PROJECT NO.: 23v82

CAD FILE: .

SHEET:

P5.05



DEMOLITION GENERAL NOTES:

1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
2. THE EXTENT AND REQUIREMENTS OF DEMOLITION WORK IS INDICATED ON THE ARCHITECTURAL DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION WORK. ALL INFORMATION SHOWN ON THE EXISTING CONSTRUCTION WILL BE REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR.
3. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF EXISTING NON REUSED PLUMBING EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
4. COORDINATE DEMOLITION OF DIVISION 22 SYSTEM AS REQUIRED WITH ALL OTHER TRADES.
5. ALL EXISTING EQUIPMENT AND MATERIALS REMOVED DURING CONSTRUCTION, THAT IS NOT TO BE REUSED, SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
6. IT IS INTENDED THAT DEMOLITION WORK LEAVE THE ENTIRE AREA FREE OF ABOVE-GRADE ITEMS, INCLUDING PIPING, STRUCTURAL SUPPORTS MATERIALS AND MISCELLANEOUS ITEMS. ALL SUCH ITEMS ARE TO BE REMOVED UNLESS SPECIFICALLY INDICATED OTHERWISE.
7. OWNER MAY WISH TO KEEP DEMOLISHED EQUIPMENT AND MATERIALS. COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT REMAIN.
8. PREPARE AREA FOR INSTALLATION OF NEW PLUMBING SYSTEMS. REFER TO NEW PLANS AND COORDINATE WITH DEMOLITION WORK.

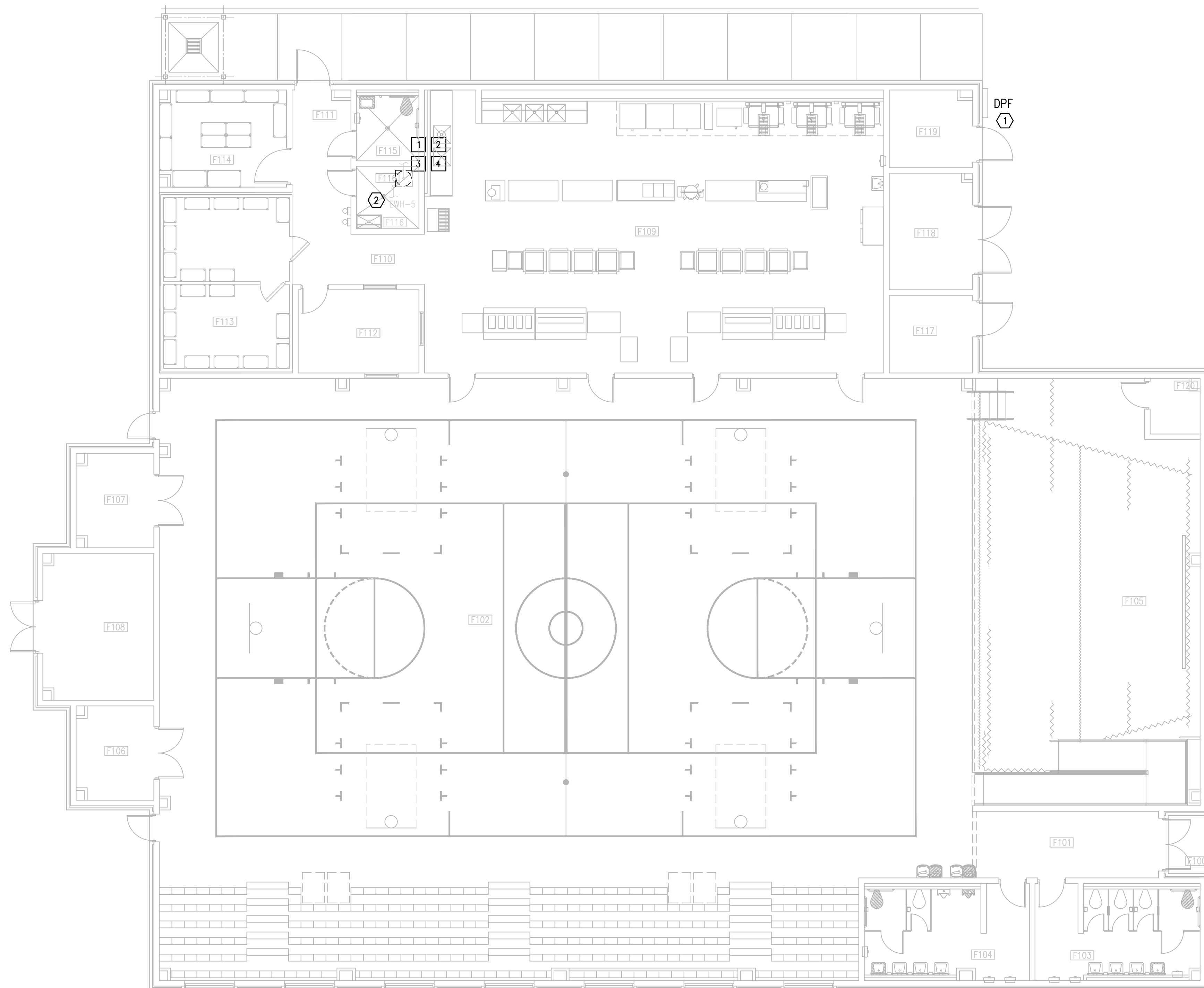
DEMOLITION PLUMBING KEYED NOTES:

- 1 DEMOLISH EXISTING ELECTRIC WATER HEATER AT THIS APPROXIMATE LOCATION.
- 2 ISOLATE AND DISCONNECT EXISTING COLD AND HOT WATER PIPES SERVING PLUMBING FIXTURE AT THIS APPROXIMATE LOCATION. CONNECT AFTER REPLACING.
- 3 DEMOLISH EXISTING PLUMBING FIXTURES MARKED ON PLANS.
- 4 PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

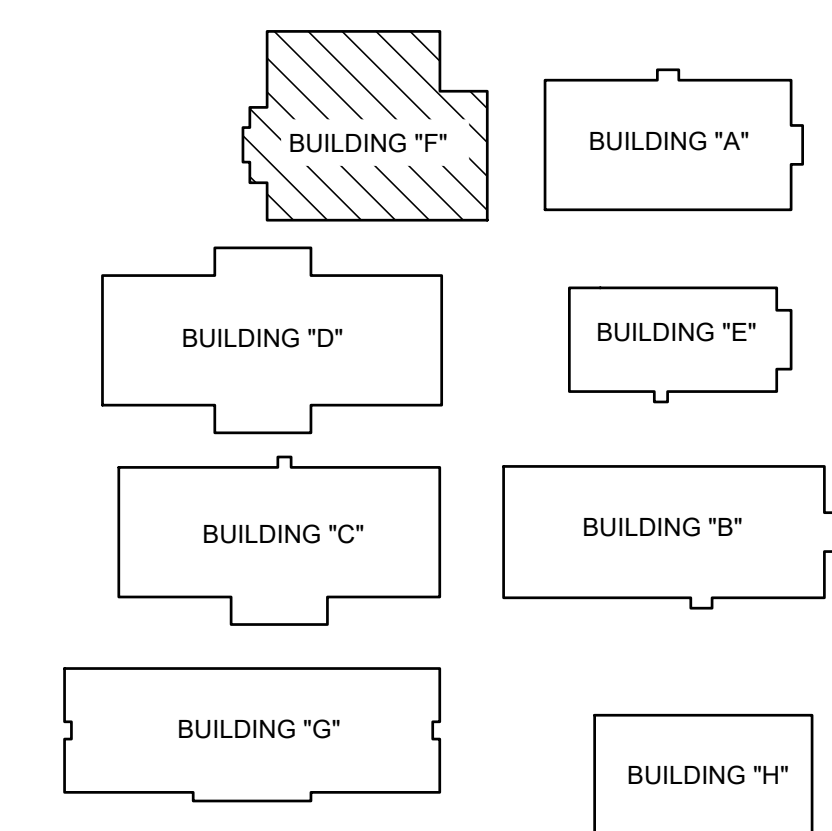
PLUMBING LEGEND	
	TO BE DEMOLISHED

DEMOLITION ELECTRICAL KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 DISCONNECT EXISTING ELECTRIC WATER HEATER FOR INSTALLATION OF NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT.



IDEA FRONTIER
 01 DEMOLITION ELECTRICAL AND PLUMBING PLAN (BUILDING F)
 SCALE: 1/8" = 1'-0" NORTH



FRONTIER IDEA ACADEMY
KEYPLAN



GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
2. FOR ALL WALL HYDRANTS BEING REPLACED, CONTRACTOR SHALL RETAIN EXISTING BOX/ENCLOSURE AND SHALL REPLACE ALL INTERNAL COMPONENTS. IT WILL BE CONTRACTOR RESPONSIBILITY TO PROVIDE AN EQUAL/SIMILAR HYDRANT TO FIT INTO EXISTING BOX/ENCLOSURE.
3. PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

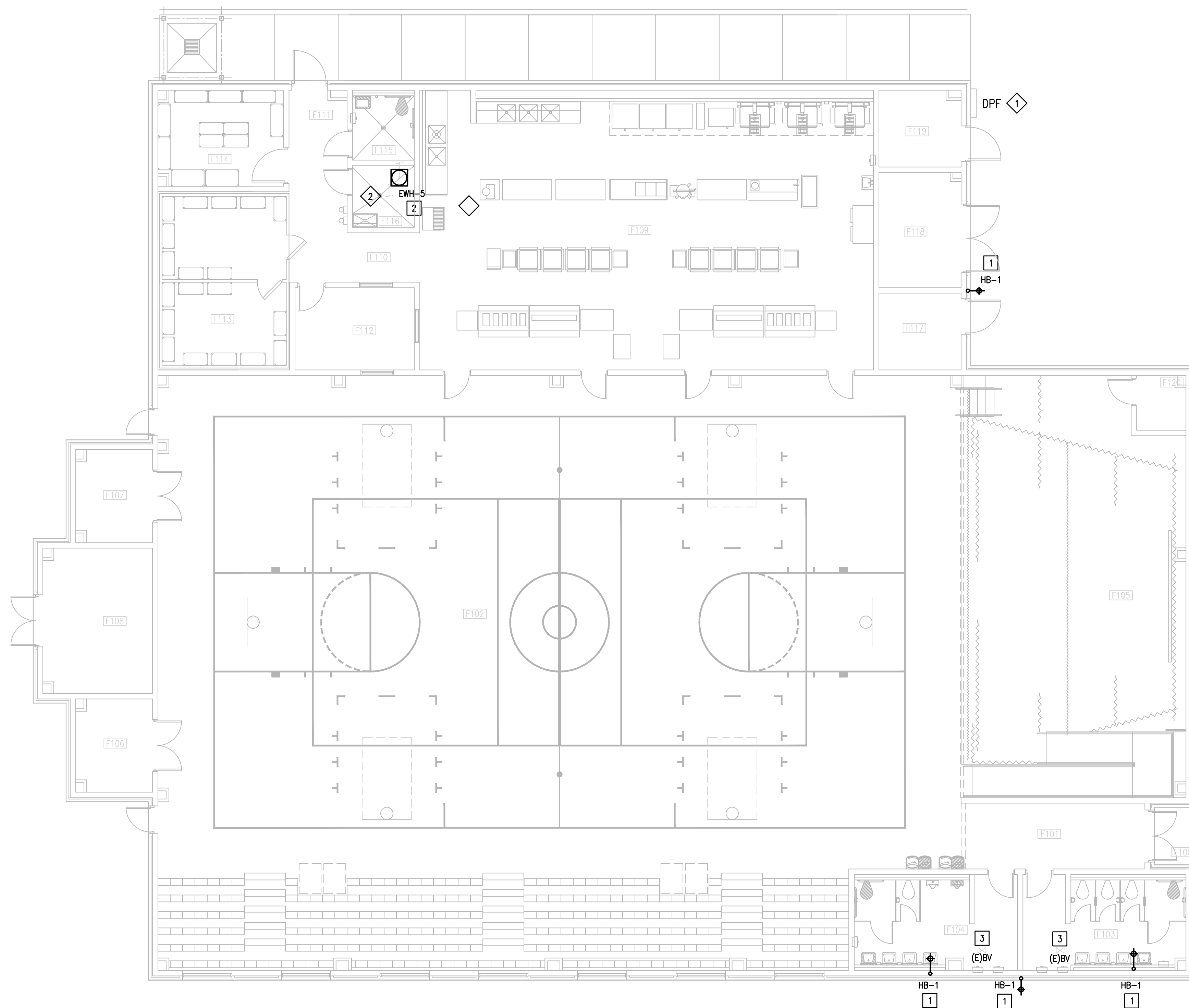
PLUMBING KEYED NOTES:

- 1 REMOVE AND REPLACE WALL HYDRANT AT THIS APPROXIMATE LOCATION. SEE SCHEDULE ON SHEET P5.11.
- 2 PROVIDE NEW ELECTRIC WATER HEATER EWH-5 AS PER SCHEDULE UNDER SCHEDULE SHEET P5.11 OR AN APPROVED EQUAL. ADJUST PLUMBING LINES AND FITTINGS TO THE NEW PLUMBING FIXTURE AS NECESSARY. REFER TO DETAIL ON DETAIL SHEET P5.11.
- 3 APPROXIMATE LOCATION OF EXISTING ISOLATION VALVE. FIELD VERIFY EXACT LOCATION.

ELECTRICAL NEW KEYED NOTES:

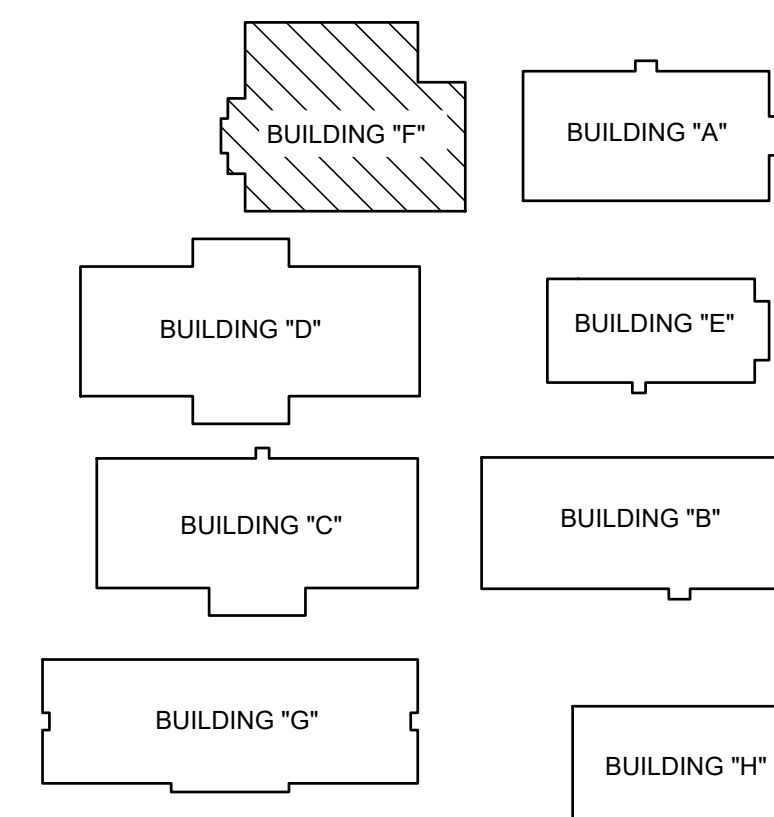
- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 CONNECT NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT. IF EXISTING BRANCH CIRCUIT DOES NOT REACH NEW POINT OF CONNECTION PROVIDE A J-BOX AND EXTEND WIRING AS NECESSARY.

PLUMBING LEGEND	
---	TO BE DEMOLISHED
⊕	WALL HYDRANT TO BE REPLACED



IDEA FRONTIER
01 NEW ELECTRICAL AND PLUMBING PLAN
SCALE: 1/8" = 1'-0"

(BUILDING F)



FRONTIER IDEA ACADEMY
KEYPLAN



TEXAS

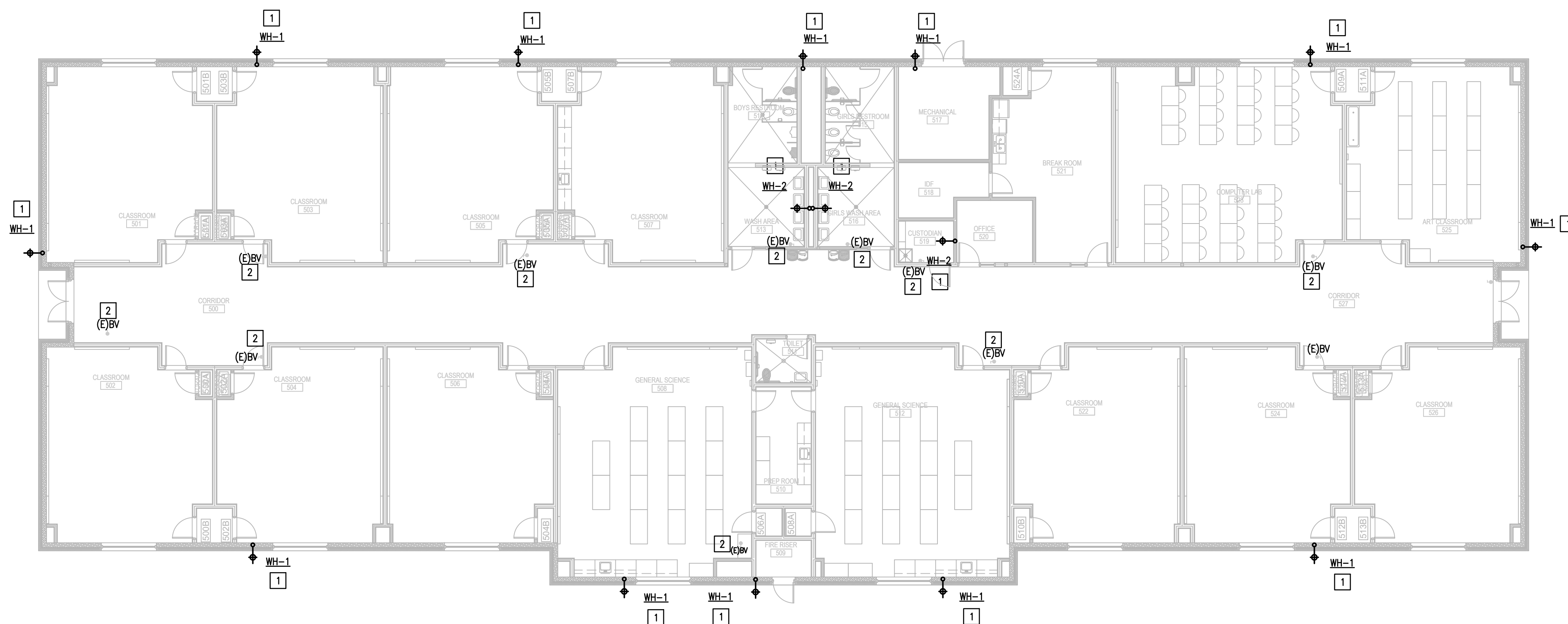
GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
2. FOR ALL WALL HYDRANTS BEING REPLACED, CONTRACTOR SHALL RETAIN EXISTING BOX/ENCLOSURE AND SHALL REPLACE ALL INTERNAL COMPONENTS. IT WILL BE CONTRACTOR RESPONSIBILITY TO PROVIDE AN EQUAL/SIMILAR HYDRANT TO FIT INTO EXISTING BOX/ENCLOSURE.
3. PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

PLUMBING KEYED NOTES:

- 1 REMOVE AND REPLACE WALL HYDRANT AT THIS APPROXIMATE LOCATION. SEE SCHEDULE ON SHEET P5.11.
- 2 APPROXIMATE LOCATION OF EXISTING ISOLATION VALVE. FIELD VERIFY EXACT LOCATION.

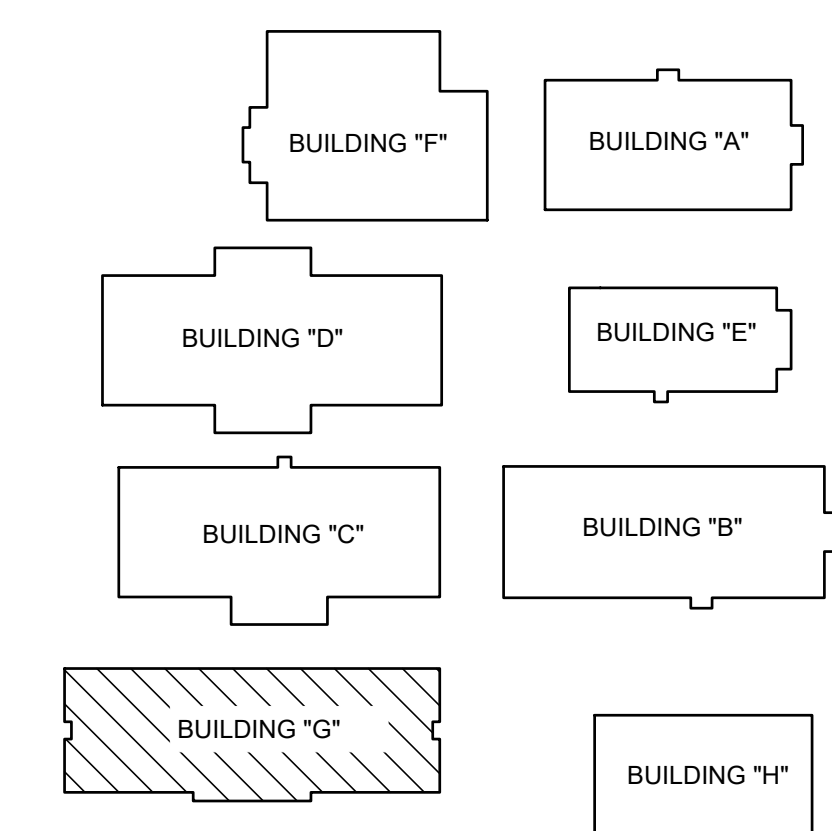
PLUMBING LEGEND	
	WALL HYDRANT TO BE REPLACED



IDEA FRONTIER
01 PLUMBING PLAN
 SCALE : 3/32" = 1'-0"
 (BUILDING G)
 NORTH

IDEA PUBLIC SCHOOLS
 LOWER RGV PLUMBING UPGRADES

RIO GRANDE VALLEY

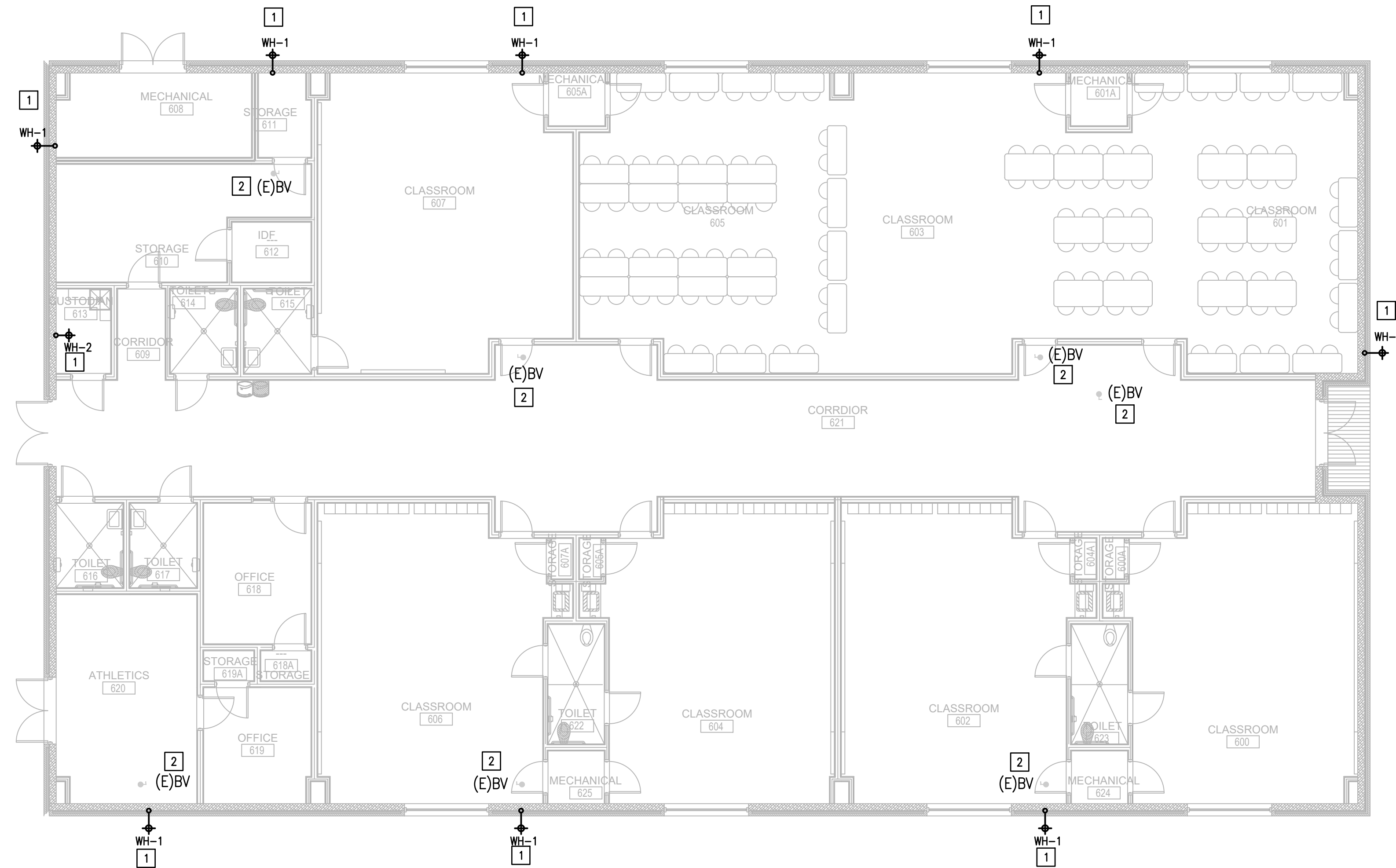


FRONTIER IDEA ACADEMY
 KEYPLAN



1128 SOUTH COMMERCE ST.
 MARLINGEN, TX
 PHONE: 956-205-3435
 TEXAS REGISTERED
 ENGINEERING FIRM
 E-15598

DATE: APRIL 19, 2024
 CHECKED BY: C.A.G.
 DRAWN BY: J.V.
 PROJECT NO.: 23v82
 CAD FILE:
 SHEET:



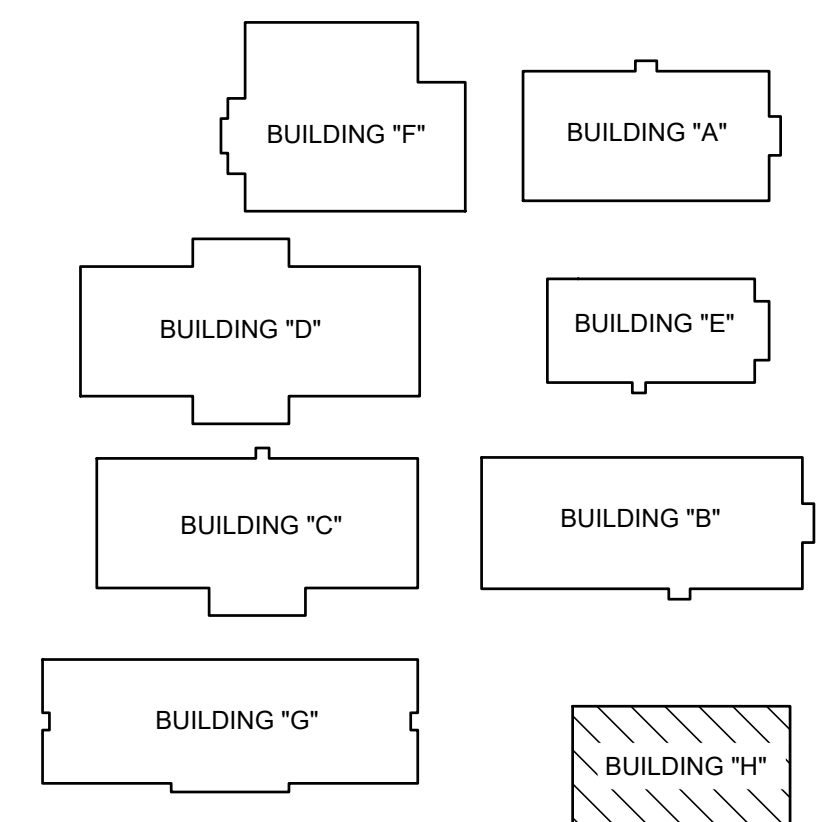
01 IDEA FRONTIER PLUMBING PLAN (BUILDING H) SCALE : 1/8" = 1'-0" NORTH

GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
2. FOR ALL WALL HYDRANTS BEING REPLACED, CONTRACTOR SHALL RETAIN EXISTING BOX/ENCLOSURE AND SHALL REPLACE ALL INTERNAL COMPONENTS. IT WILL BE CONTRACTOR RESPONSIBILITY TO PROVIDE AN EQUAL/SIMILAR HYDRANT TO FIT INTO EXISTING BOX/ENCLOSURE.
3. PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

PLUMBING KEYED NOTES:

- 1 REMOVE AND REPLACE WALL HYDRANT AT THIS APPROXIMATE LOCATION. SEE SCHEDULE ON SHEET P5.11.
- 2 APPROXIMATE LOCATION OF EXISTING ISOLATION VALVE. FIELD VERIFY EXACT LOCATION.



FRONTIER IDEA ACADEMY KEYPLAN

NO. REVISION: BY:

COPY NO:

CSP # 27-LRPV-0424

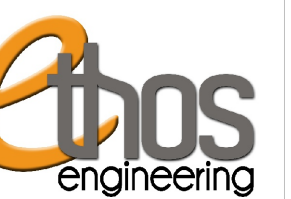


04.19.2023

TEXAS

IDEA PUBLIC SCHOOLS LOWER RGV PLUMBING UPGRADES

RIO GRANDE VALLEY



1128 SOUTH COMMERCE ST. MARLINGEN, TX PHONE: 956-205-2435 TEXAS REGISTERED ENGINEERING FIRM E-15998

DATE: APRIL 19, 2024

CHECKED BY: C.A.G.

DRAWN BY: J.V.

PROJECT NO.: 23v82

CAD FILE: SHEET:

P5.09



DEMOLITION GENERAL NOTES:

1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
2. A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION PLUMBING WORK. ALL INFORMATION SHOWN ON THE EXISTING CONSTRUCTION WILL BE REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR.
3. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF EXISTING NON REUSED PLUMBING EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
4. COORDINATE DEMOLITION OF DIVISION 22 SYSTEM AS REQUIRED WITH ALL OTHER TRADES.
5. COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT REMAIN.
6. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD AND HOT WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
7. PLUMBING CONTRACTOR SHALL PERFORM EXCAVATION/HAND DIG WITH CAUTION TO NOT DAMAGE ANY EXISTING UTILITIES. CONTRACTOR WILL BE RESPONSIBLE TO FIX OR REPAIR ANY ITEM THAT RESULT DAMAGED WHILE PERFORMING WORK.

DEMOLITION

PLUMBING KEYED NOTES (ALT#1):

- 1 DEMOLISH EXISTING 4" DOMESTIC COLD WATER BACK-FLOW PREVENTER AT THIS APPROXIMATE LOCATION.

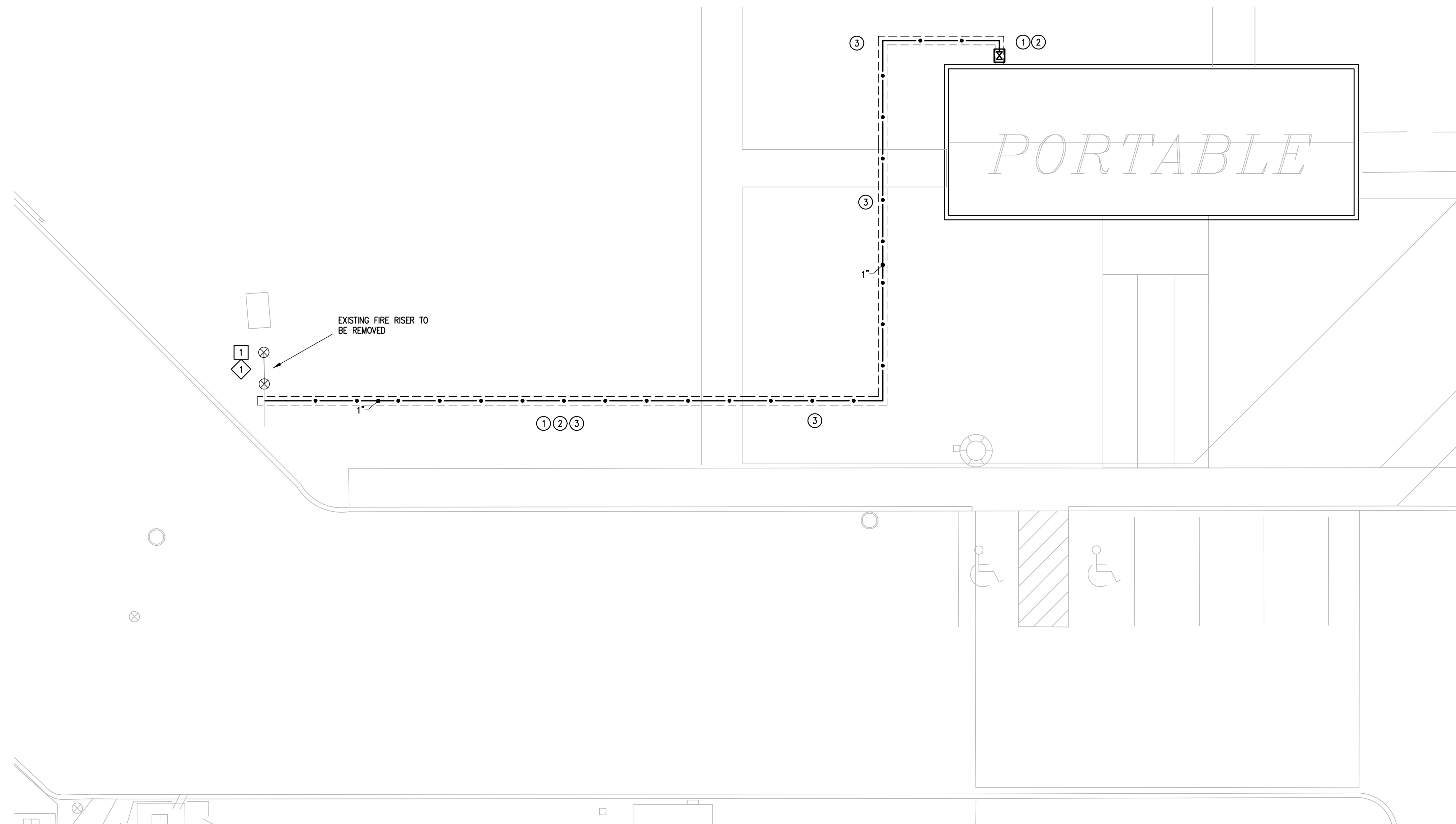
PLUMBING KEYED NOTES (ALT#1):

- 1 PROVIDE NEW 4" BACK FLOW PREVENTER WATTS MODEL-LF957RPDA-FS, WITH FLANGED ENDS, LEAD FREE AND NSF COMPLIANT OR AN APPROVED EQUAL.

PLUMBING KEYED NOTES:

- 1 RUN NEW 1" DOMESTIC COLD WATER PIPE FROM PORTABLE BUILDING AND CONNECT DOWNSTREAM THE DOMESTIC COLD WATER BACK-FLOW PREVENTER.
- 2 PROVIDE NEW GATE VALVE IN QUARTZITE BOX. SEE ASSOCIATED DETAIL ON DETAIL SHEET.
- 3 EXCAVATE AT THIS APPROXIMATE LOCATION AS NECESSARY TO ACCOMMODATE NEW UNDERGROUND COLD WATER LINE PIPING. HAND DIG AS NECESSARY TO AVOID ANY EXISTING UTILITIES. AREA TO BE BACKFILLED, COMPACTED, AND TO MATCH EXISTING CONDITIONS.

PLUMBING LEGEND	
---	EXCAVATION/HAND DIG AREA
---	EXISTING DOMESTIC COLD WATER LINE TO REMAIN
---	NEW DOMESTIC COLD WATER PIPE
☒	NEW ISOLATION VALVE
⊗	NEW BACK-FLOW PREVENTER



01 IDEA FRONTIER PLUMBING PLAN (SITE)
SCALE : 1" = 10'-0"
NORTH



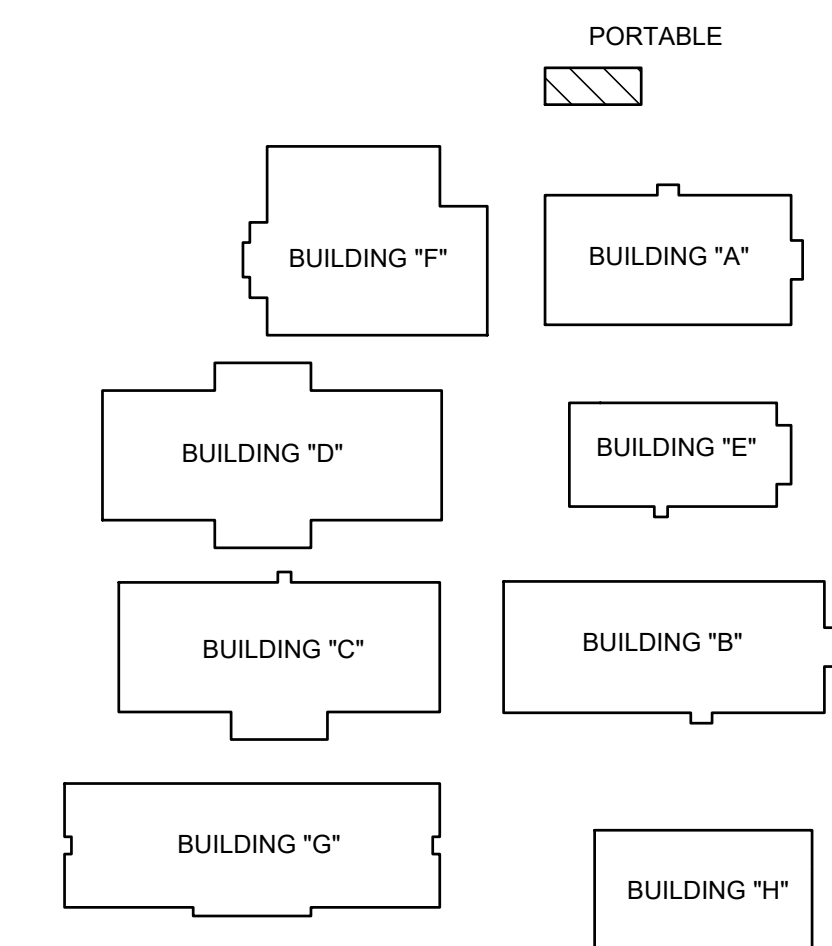
EXISTING DOMESTIC COLD WATER BACK-FLOW PREVENTER TO BE REPLACED (ALTERNATE #1)

02 IDEA FRONTIER DOMESTIC COLD WATER BACK-FLOW PREVENTER (ALTERNATE #1)
SCALE : NOT TO SCALE



EXISTING DOMESTIC COLD WATER MAIN VALVE SERVING PORTABLE.
CUT AND RUN NEW PIPING AS PER PLANS.

03 IDEA FRONTIER (PORTABLE) DOMESTIC COLD WATER ENTRANCE
SCALE : NOT TO SCALE



FRONTIER IDEA ACADEMY KEYPLAN



PLUMBING FIXTURE SCHEDULE

Project: IDEA PS PLUMBING UPGRADES AT LOWER RGV CAMPUSES

MARK	MANUFACTURER & MODEL NUMBER	DESCRIPTION	CONNECTIONS					REMARKS
			WASTE	VENT	CW	HW	NOTES	
EDF-1	ELKAY LVRCTL8SC APRON 98324C CARRIER ZURN Z1225-BL	WALL MOUNTED ADA VANDAL-RESISTANT FILTERED, 8.0 GPH STAINLESS STEEL, BI-LEVEL ELECTRIC DRINKING FOUNTAIN, VANDAL-RESISTANT BUBBLERS WITH CHROME PLATED INTEGRAL HOOD GUARD, PVC P-TRAP, INDOOR RATED, APRON AND CARRIER, ADULT STANDARD & ADULT ADA MOUNTING.	2"	2"	1/2"	-	-	-
EDF-2	ELKAY LVRCTL8WSK APRON 98324C CARRIER ZURN Z1225-BL	WALL MOUNTED ADA VANDAL-RESISTANT FILTERED, 8.0 GPH STAINLESS STEEL, BOTTLE FILLING STATION & BI-LEVEL ELECTRIC DRINKING FOUNTAIN, VANDAL-RESISTANT BUBBLERS WITH CHROME PLATED INTEGRAL HOOD GUARD, PVC P-TRAP, INDOOR RATED, APRON AND CARRIER, ADULT STANDARD & ADULT ADA MOUNTING.	2"	2"	1/2"	-	-	-
WH-1&2	WOODFORD MODEL 65	THE MODEL 65 ARE AUTOMATIC DRAINING, FREEZELESS WALL HYDRANTS WITH SINGLE CHECK HOSE CONNECTION ANTI-SIPHON VACUUM BREAKERS. HYDRANTS DRAIN AS HANDLE IS SHUT OFF, EVEN IF HOSE IS ATTACHED. ALL MODELS ARE DESIGNED FOR IRRIGATION PURPOSES TO BLEND IN WITH MODERN ARCHITECTURE FOR INSTALLATION ON RESTAURANTS, SCHOOLS, OFFICE BUILDINGS, CHURCHES, APARTMENTS, MOTELS, STORES, SHOPPING CENTERS AND INDUSTRIAL BUILDINGS.	-	-	3/4"	-	-	-
HB-1	WOODFORD MODEL 26	THE MODEL 26 ARE FIELD TESTABLE, BACKFLOW PROTECTED WALL FAUCETS INTENDED FOR IRRIGATION PURPOSES IN MILD CLIMATE AREAS. THE MODELS ARE DESIGNED TO BLEND WITH MODERN ARCHITECTURE FOR INSTALLATION ON OR IN HOMES, SERVICE STATIONS, CHURCHES, MOTELS, DRIVEIN RESTAURANTS, ETC.	-	-	3/4"	-	-	-

ELECTRIC WATER HEATER SCHEDULE

Project: IDEA PS PLUMBING UPGRADES AT LOWER RGV CAMPUSES

MARK	LOCATION	SERVING	GALLON CAPACITY	KW	NUMBER OF ELEMENTS	RECOVERY IN GPH AT 120°F RISE	ELECT. V/P/H	MANUFACTURER & MODEL	NOTES
EWH-1	SEE PLANS	SEE PLANS	6	3	1	10	208/1/60	A.O. SMITH DEL-6	ALL
EWH-2	SEE PLANS	SEE PLANS	6	3	1	10	208/1/60	A.O. SMITH DEL-6	ALL
EWH-3	SEE PLANS	SEE PLANS	6	3	1	10	208/1/60	A.O. SMITH DEL-6	ALL
EWH-4	SEE PLANS	SEE PLANS	6	3	1	10	208/1/60	A.O. SMITH DEL-6	ALL
EWH-5	SEE PLANS	SEE PLANS	120	54	3	185	480/3/60	A.O. SMITH DSE-120A	ALL

NOTES:

1. MANUFACTURER & MODEL NUMBER ARE "OR APPROVED EQUAL".
2. PROVIDE IMMERSION TYPE THERMOSTAT.



03 EDF-1
SCALE: NOT TO SCALE



04 EDF-2
SCALE: NOT TO SCALE



05 WH-1&2
SCALE: NOT TO SCALE



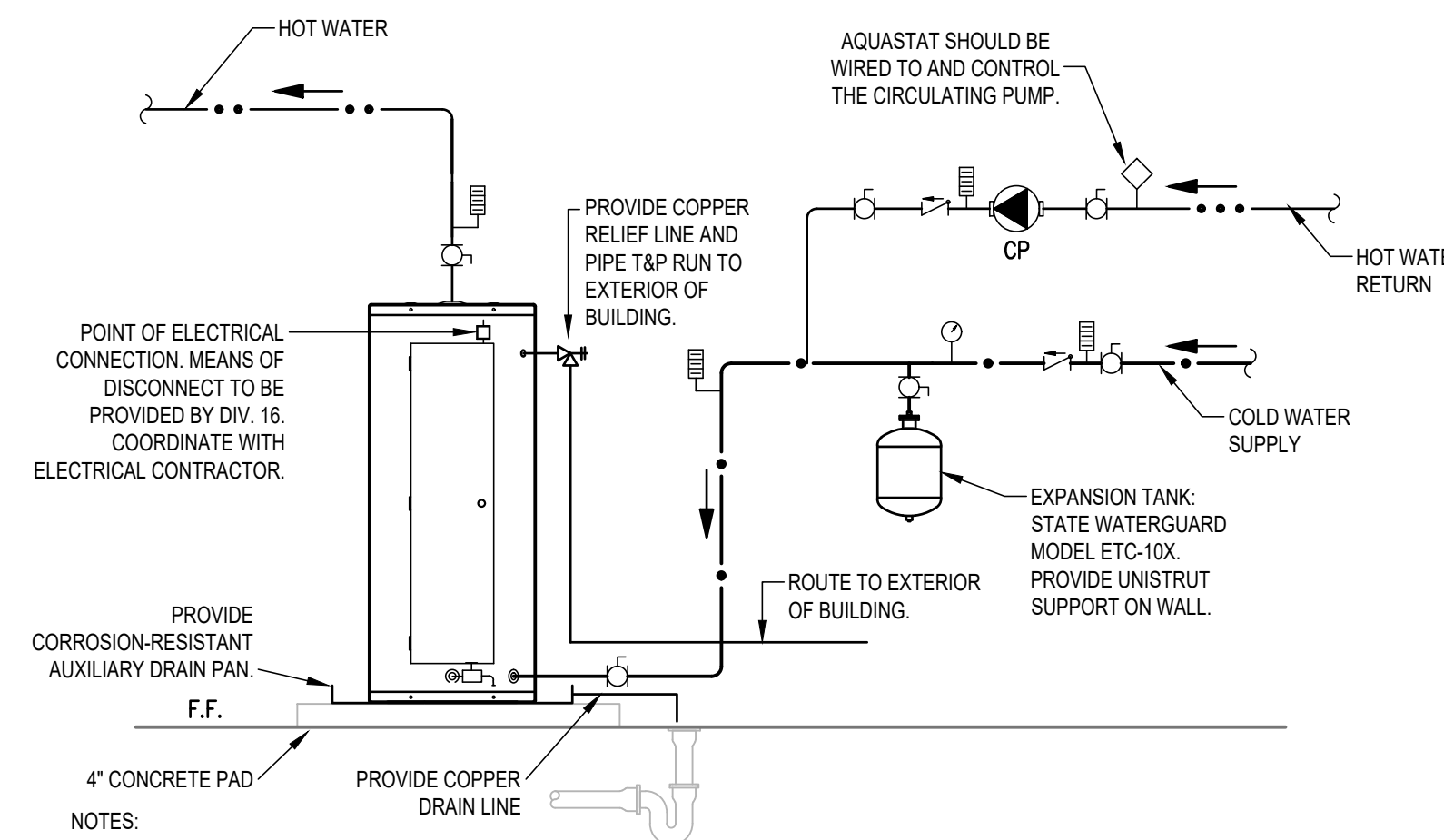
06 HB-1
SCALE: NOT TO SCALE



07 EWH-1,2,3&4
SCALE: NOT TO SCALE



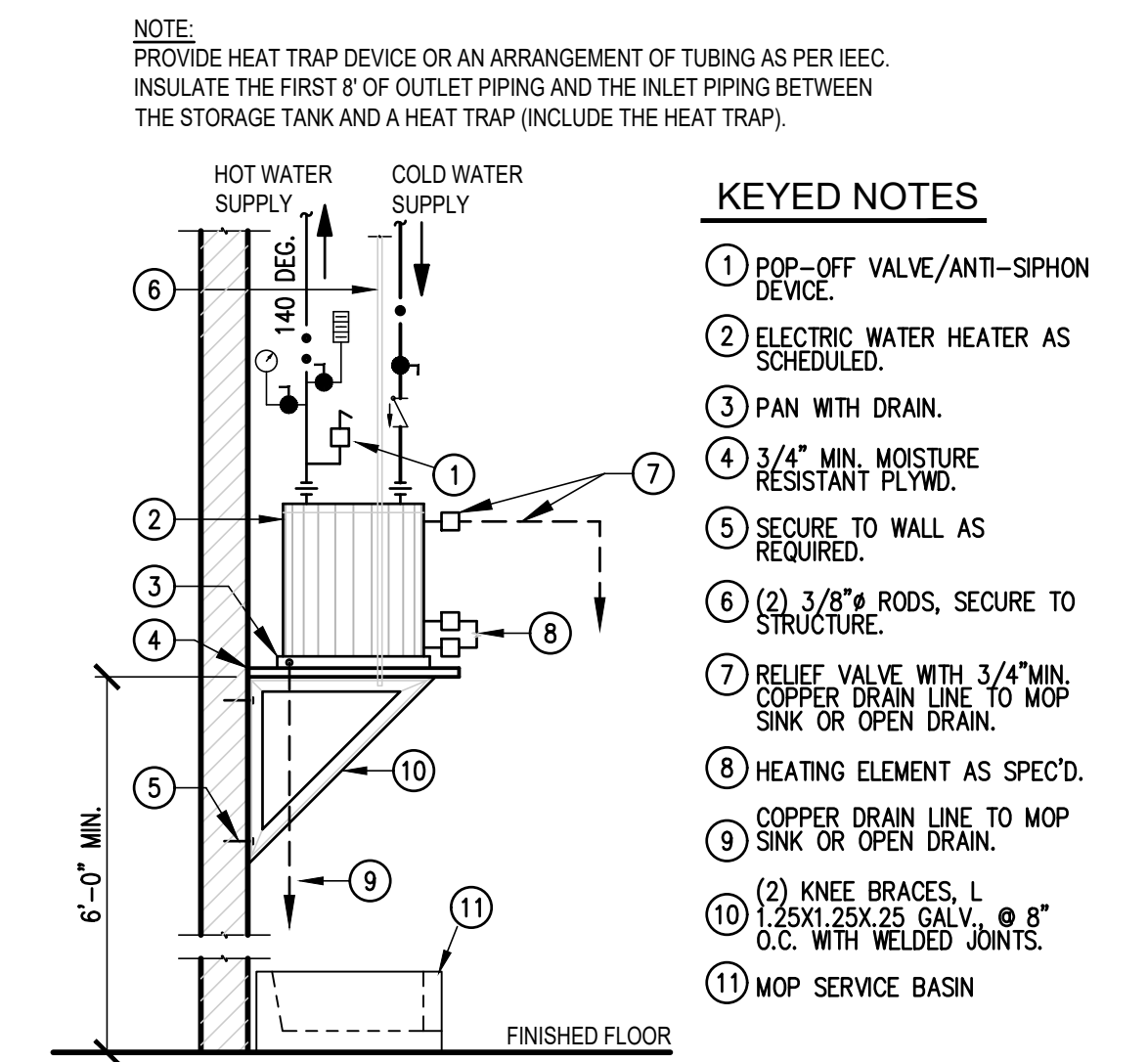
09 EWH-5
SCALE: NOT TO SCALE



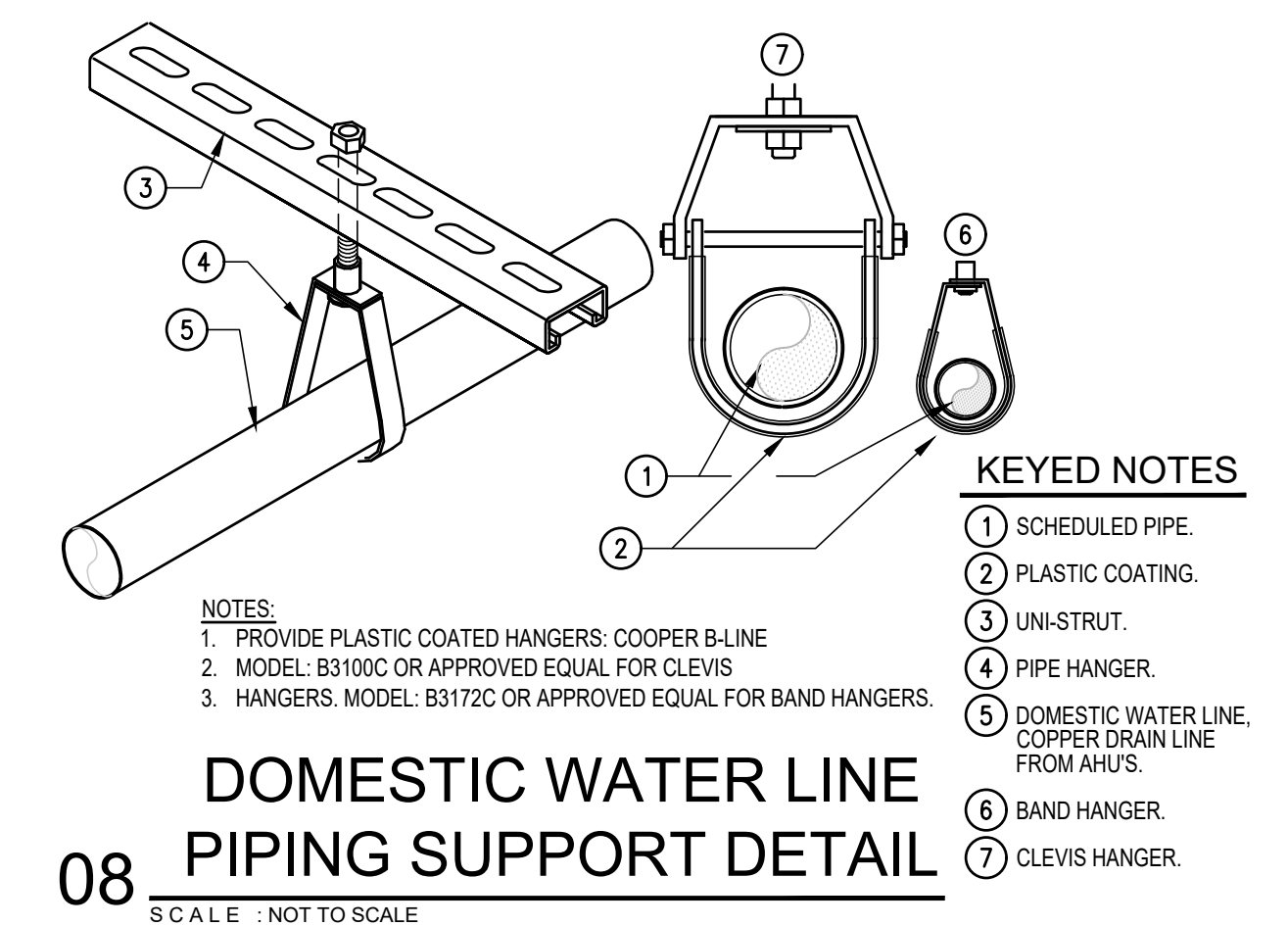
- NOTES:
1. PREFERRED PIPING DIAGRAM.
 2. THE TEMPERATURE AND PRESSURE RELIEF VALVE SETTING SHALL NOT EXCEED PRESSURE RATING OF ANY COMPONENT IN THE SYSTEM.
 3. PROVIDE HEAT TRAP DEVICE OR AN ARRANGEMENT OF TUBING AS PER IECC. INSULATE THE FIRST 8' OF OUTLET PIPING AND THE INLET PIPING BETWEEN THE STORAGE TANK AND HEAT TRAP (INCLUDE THE HEAT TRAP).
 4. WHERE WATER HEATER IS INSTALLED IN A ROOM WITH SUSPENDED CEILING, SHUT OFF VALVES MUST BE LOCATED BELOW SUSPENDED CEILING.

LEGEND			
	TEMPERATURE & PRESSURE RELIEF VALVE		CHECK VALVE
	AQUASTAT		FULL PORT BALL VALVE
	DRAIN		TEMPERATURE GAGE
	PRESSURE GAUGE		CIRCULATING PUMP

01 EWH-5 FLOOR MOUNTED ELECTRIC WATER HEATER DETAIL
SCALE: NOT TO SCALE

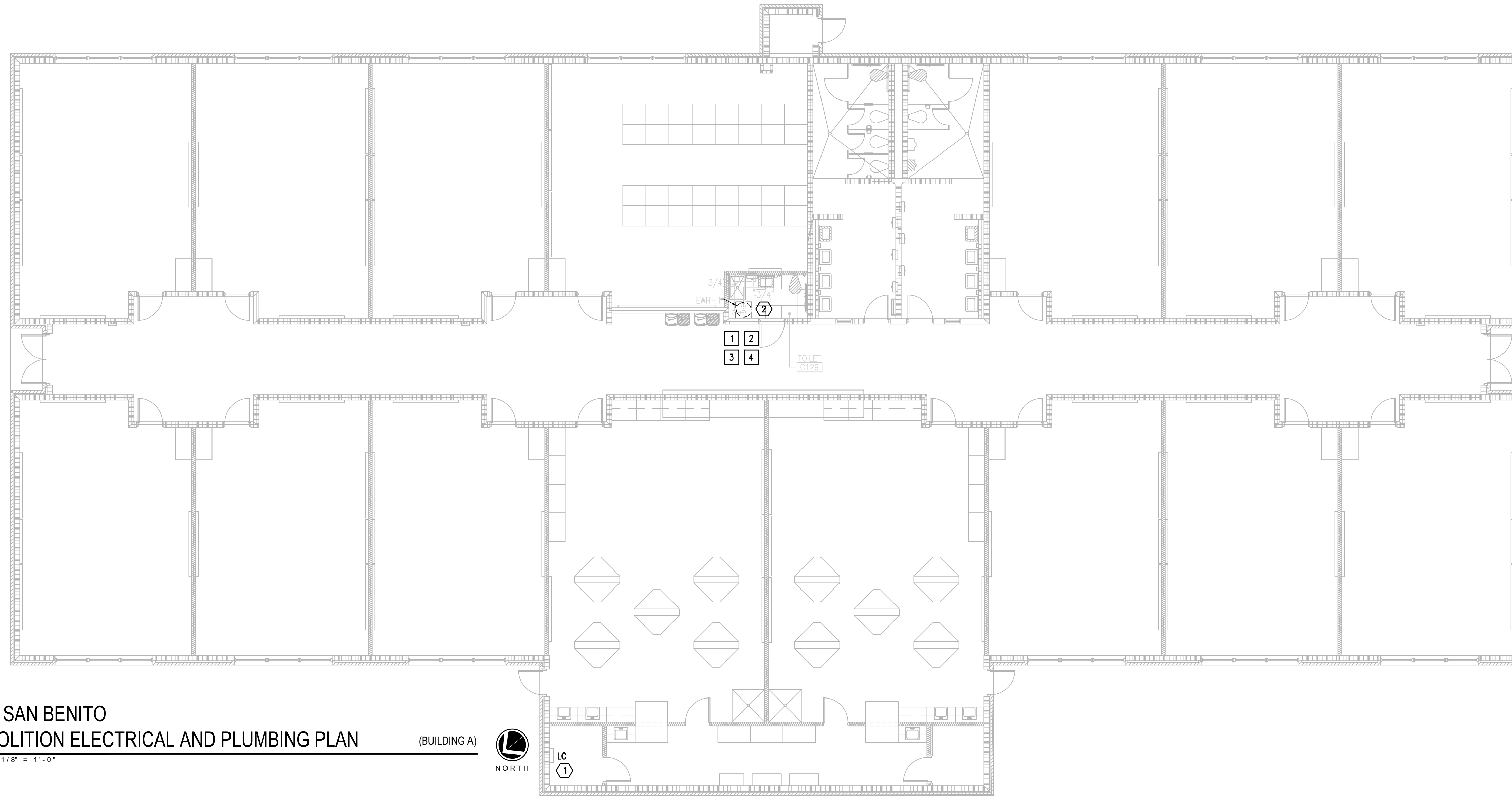


02 EWH-1,2,3&4 WALL MOUNTED ELECTRIC WATER HEATER DETAIL
SCALE: NOT TO SCALE

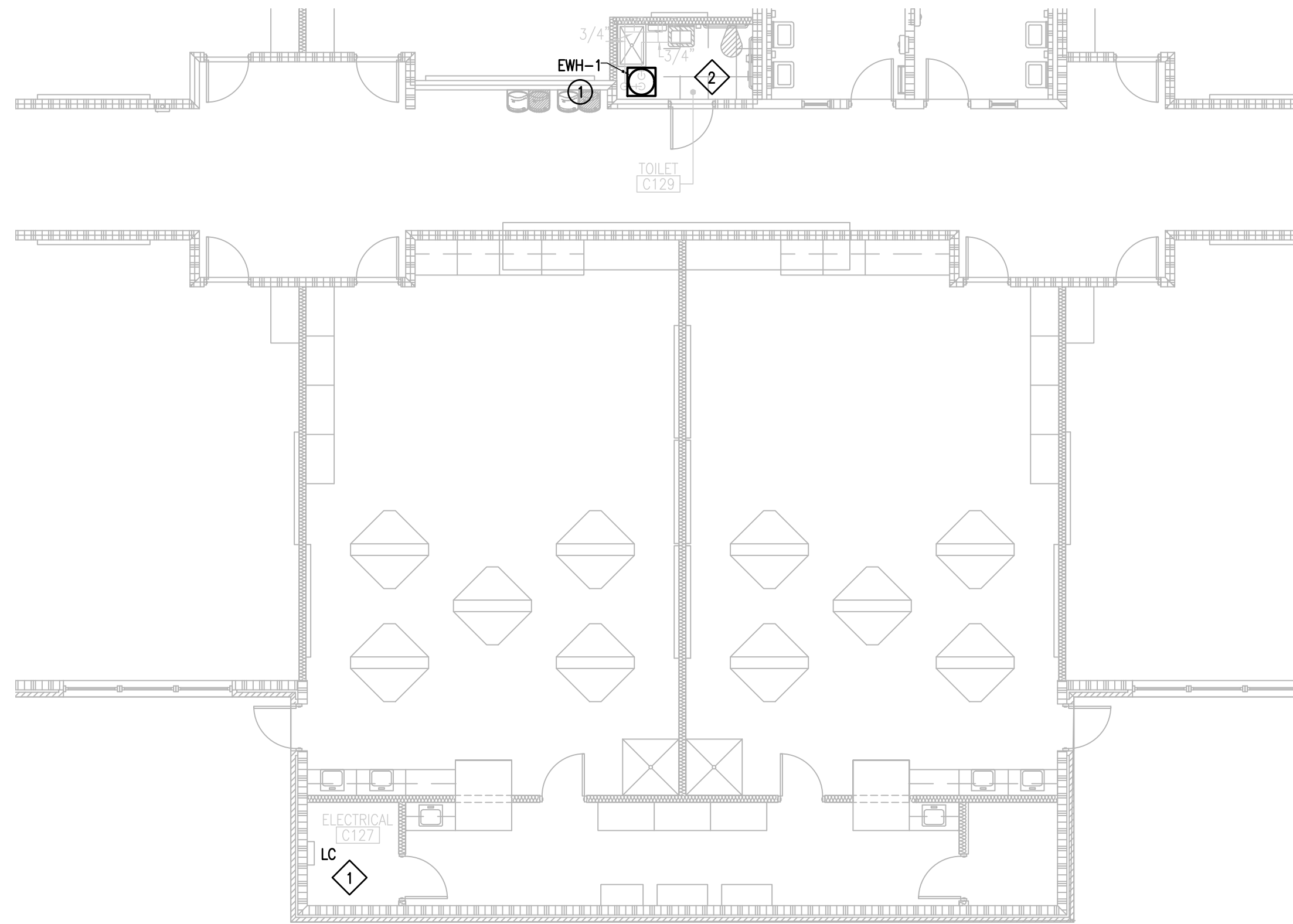


08 DOMESTIC WATER LINE PIPING SUPPORT DETAIL
SCALE: NOT TO SCALE





01 IDEA SAN BENITO
DEMOLITION ELECTRICAL AND PLUMBING PLAN (BUILDING A)
SCALE: 1/8" = 1'-0"



02 IDEA SAN BENITO
NEW ELECTRICAL PLUMBING PLAN (BUILDING A)
SCALE: 1/8" = 1'-0"

DEMOLITION GENERAL NOTES:

1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
2. A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION PLUMBING WORK. ALL INFORMATION SHOWN ON THE EXISTING CONSTRUCTION WILL BE REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR.
3. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF EXISTING NON REUSED PLUMBING EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
4. COORDINATE DEMOLITION OF DIVISION 22 SYSTEM AS REQUIRED WITH ALL OTHER TRADES.
5. ALL EXISTING EQUIPMENT AND MATERIALS REMOVED DURING CONSTRUCTION, THAT IS NOT TO BE REUSED, SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
6. COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT REMAIN.
7. PREPARE AREA FOR INSTALLATION OF NEW PLUMBING SYSTEMS. REFER TO NEW PLANS AND COORDINATE WITH DEMOLITION WORK.
8. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD AND HOT WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.

GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
2. PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

DEMOLITION PLUMBING KEYED NOTES:

- 1 DEMOLISH EXISTING ELECTRIC WATER HEATER AT THIS APPROXIMATE LOCATION.
- 2 ISOLATE AND DISCONNECT EXISTING COLD AND HOT WATER PIPES SERVING PLUMBING FIXTURE AT THIS APPROXIMATE LOCATION. CONNECT AFTER REPLACING.
- 3 DEMOLISH EXISTING PLUMBING FIXTURES MARKED ON PLANS.
- 4 PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

PLUMBING KEYED NOTES:

- 1 PROVIDE NEW ELECTRIC WATER HEATER EWH-1 AS PER SCHEDULE UNDER SCHEDULE SHEET P6.05 OR AN APPROVED EQUAL. ADJUST PLUMBING LINES AND FITTINGS TO THE NEW PLUMBING FIXTURE AS NECESSARY. REFER TO DETAIL ON DETAIL SHEET P5.11.

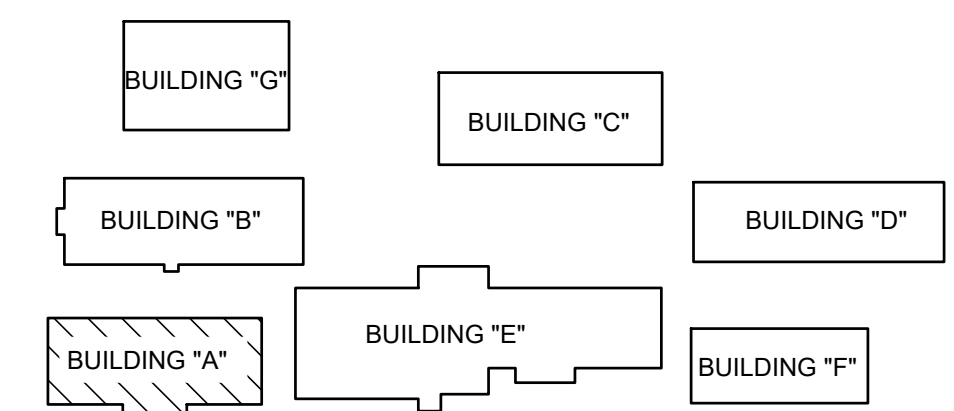
PLUMBING LEGEND	
---	TO BE DEMOLISHED

DEMOLITION ELECTRICAL KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 DISCONNECT EXISTING ELECTRIC WATER HEATER FOR INSTALLATION OF NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT.

ELECTRICAL NEW KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 CONNECT NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT. IF EXISTING BRANCH CIRCUIT DOES NOT REACH NEW POINT OF CONNECTION PROVIDE A J-BOX AND EXTEND WIRING AS NECESSARY.



SAN BENITO IDEA ACADEMY
KEYPLAN

NO. REVISION: BY:

COPY NO:

CSP # 27-LRP-0424



TEXAS

IDEA PUBLIC SCHOOLS
LOWER RGV PLUMBING UPGRADES

RIO GRANDE VALLEY



1128 SOUTH COMMERCE ST.
HARLINGEN, TX
PHONE: 361-205-2435
TEXAS REGISTERED
ENGINEERING FIRM
E-15598

DATE: APRIL 19, 2024

CHECKED BY: C.A.G.

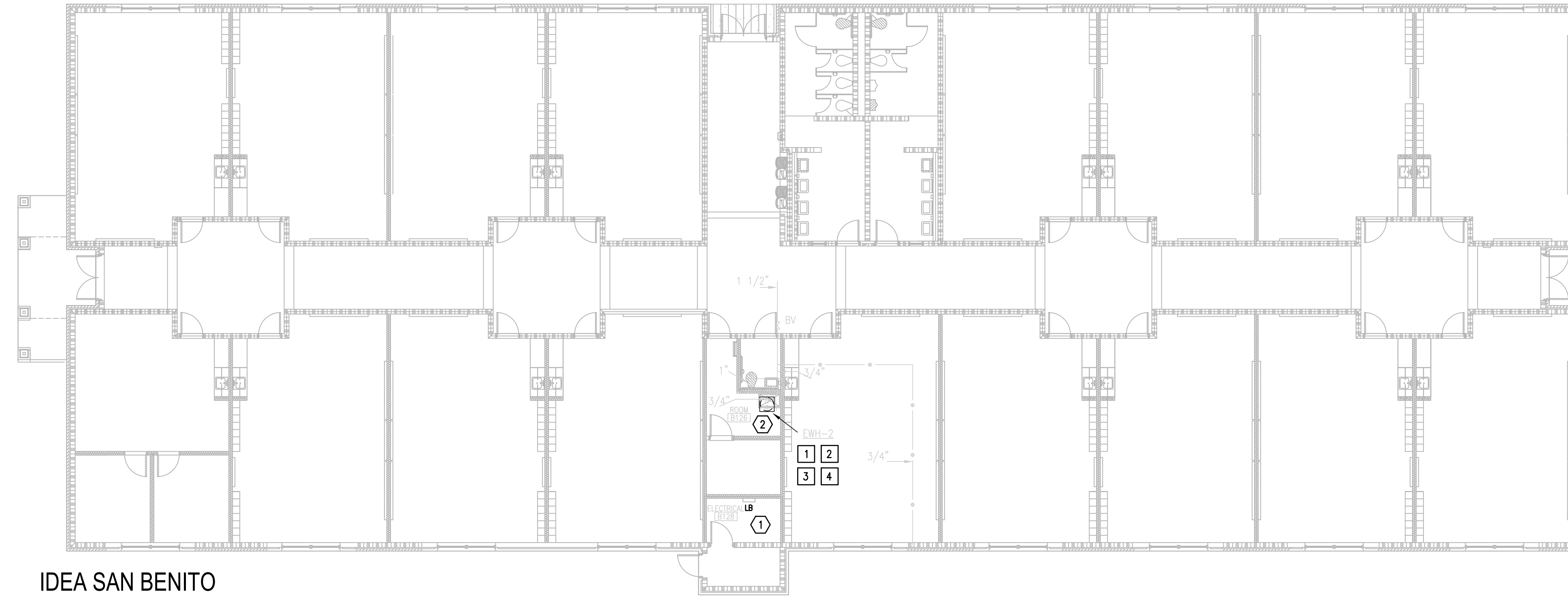
DRAWN BY: J.V.

PROJECT NO.: 23v82

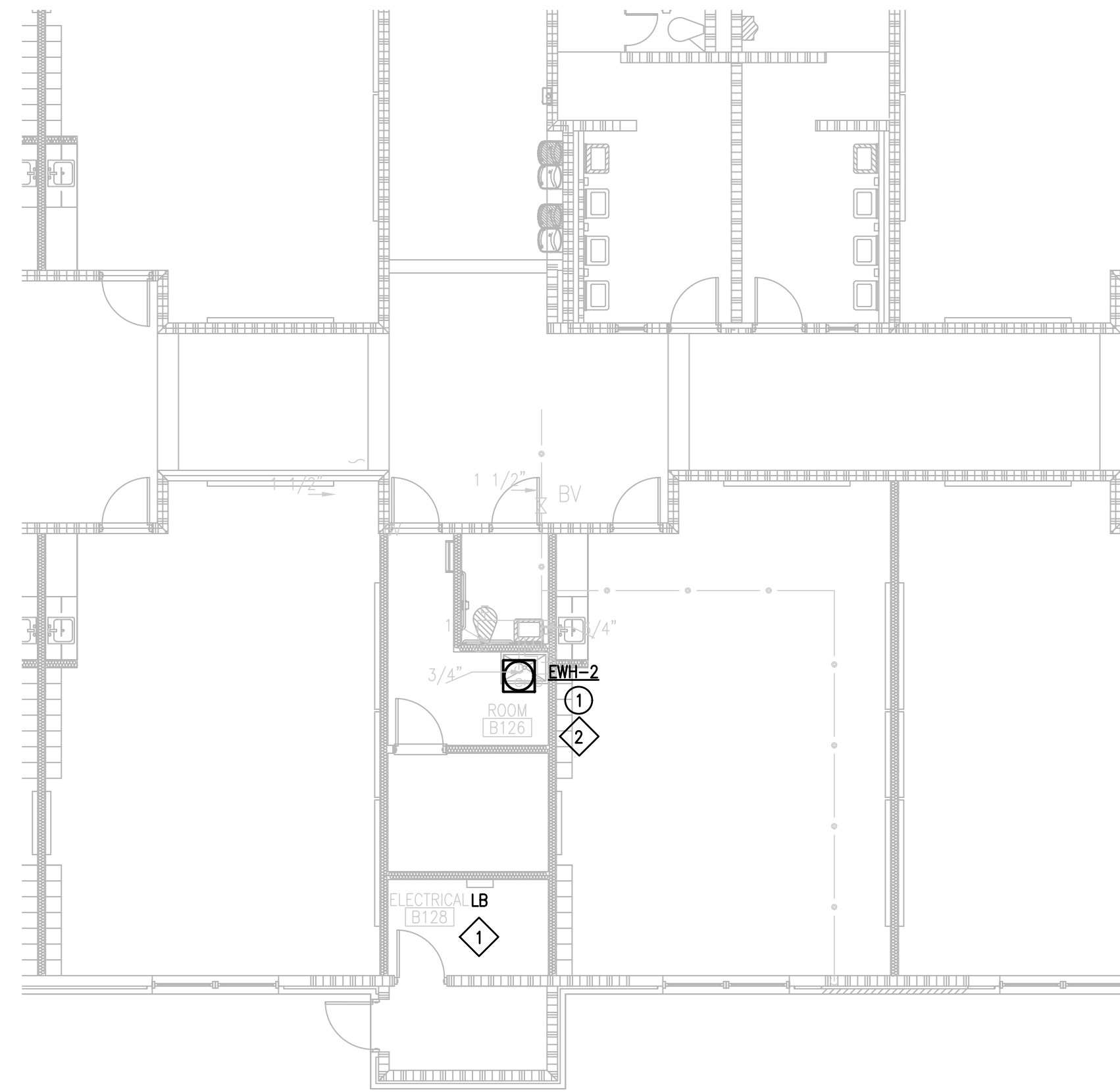
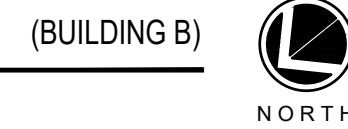
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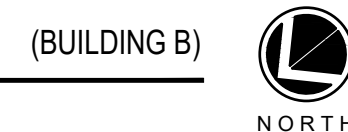
P6.01



01 IDEA SAN BENITO
DEMOLITION ELECTRICAL AND PLUMBING PLAN
SCALE : 3/32" = 1'-0"



02 IDEA SAN BENITO
NEW ELECTRICAL AND PLUMBING PLAN
SCALE : 1/8" = 1'-0"



DEMOLITION GENERAL NOTES:

1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
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7. PREPARE AREA FOR INSTALLATION OF NEW PLUMBING SYSTEMS. REFER TO NEW PLANS AND COORDINATE WITH DEMOLITION WORK.
8. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD AND HOT WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.

GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
2. PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

DEMOLITION PLUMBING KEYED NOTES:

- 1 DEMOLISH EXISTING ELECTRIC WATER HEATER AT THIS APPROXIMATE LOCATION.
- 2 ISOLATE AND DISCONNECT EXISTING COLD AND HOT WATER PIPES SERVING PLUMBING FIXTURE AT THIS APPROXIMATE LOCATION. CONNECT AFTER REPLACING.
- 3 DEMOLISH EXISTING PLUMBING FIXTURES MARKED ON PLANS.
- 4 PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

PLUMBING KEYED NOTES:

- 1 PROVIDE NEW ELECTRIC WATER HEATER EWH-2 AS PER SCHEDULE UNDER SCHEDULE SHEET P6.05 OR AN APPROVED EQUAL. ADJUST PLUMBING LINES AND FITTINGS TO THE NEW PLUMBING FIXTURE AS NECESSARY. REFER TO DETAIL ON DETAIL SHEET P5.11.

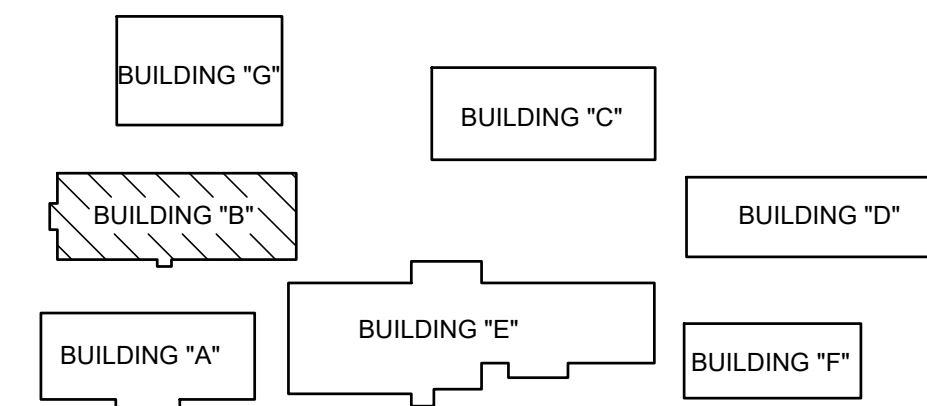
PLUMBING LEGEND	
---	TO BE DEMOLISHED

DEMOLITION ELECTRICAL KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 DISCONNECT EXISTING ELECTRIC WATER HEATER FOR INSTALLATION OF NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT.

ELECTRICAL NEW KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 CONNECT NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT. IF EXISTING BRANCH CIRCUIT DOES NOT REACH NEW POINT OF CONNECTION PROVIDE A J-BOX AND EXTEND WIRING AS NECESSARY.



SAN BENITO IDEA ACADEMY
KEYPLAN

NO. REVISION: BY:

COPY NO:

CSP # 27-LRP-0424



TEXAS

IDEA PUBLIC SCHOOLS
LOWER RGV PLUMBING UPGRADES

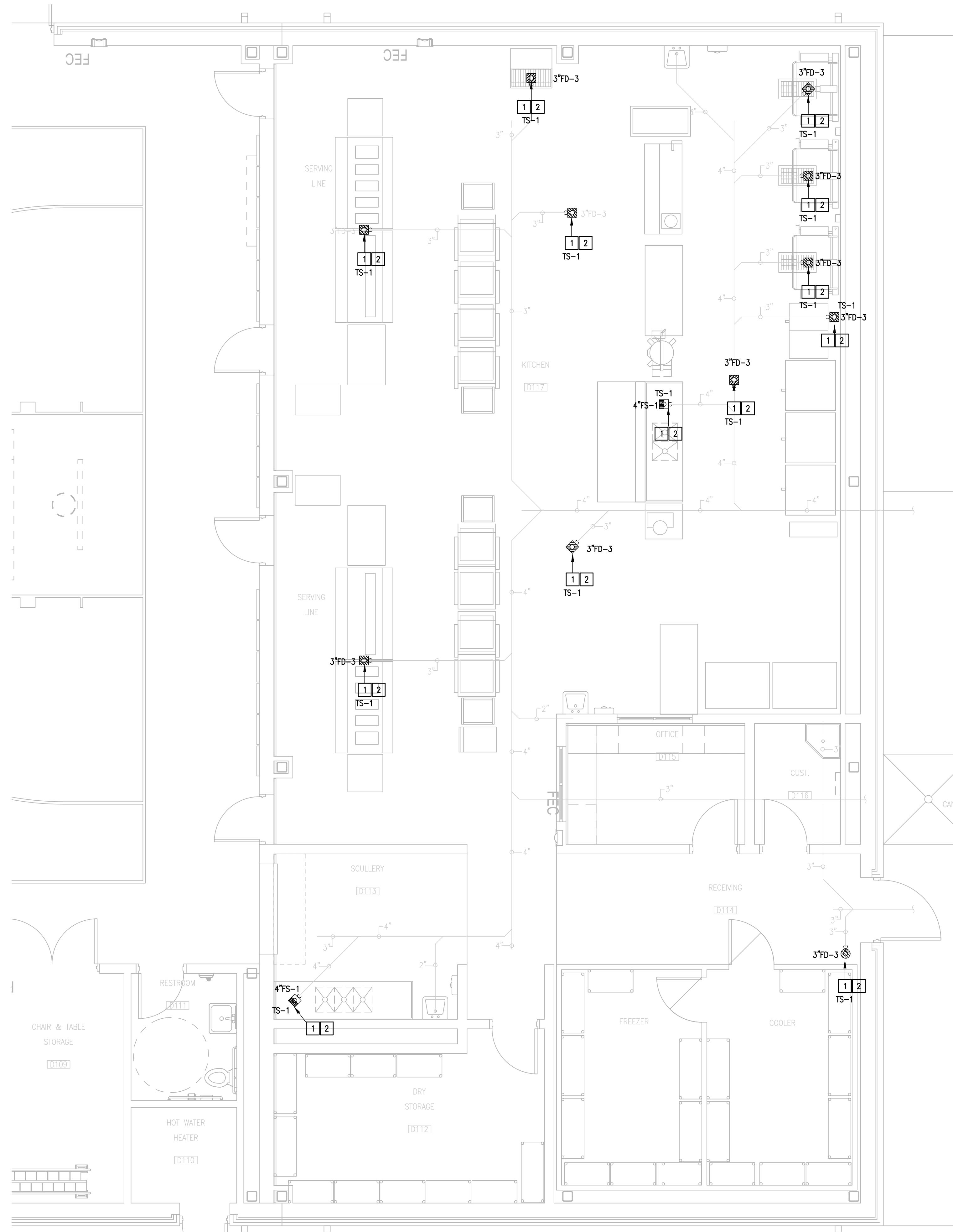
RIO GRANDE VALLEY



1128 SOUTH COMMERCE ST.
HARLINGEN, TX
PHONE: 361-205-2455
TEXAS REGISTERED
ENGINEERING FIRM
E-15998

DATE: APRIL 19, 2024
CHECKED BY: C.A.G.
DRAWN BY: J.V.
PROJECT NO.: 23v82
CAD FILE:
SHEET:

P6.02



PLUMBING KEYED NOTES:

- 1 REMOVE, STORE AND RE-INSTALL FLOOR SINK GRATE AFTER COMPLETING WORK.
- 2 PROVIDE NEW TRAP SEAL FOR EXISTING FLOOR SINK AT THIS APPROXIMATE LOCATION. ENSURE TO PROVIDE APPROPRIATE SIZE TO FIT INTO EXISTING PIPING. REFER TO SCHEDULE ON SHEET P6.05.

NO. REVISION: BY:

COPY NO:

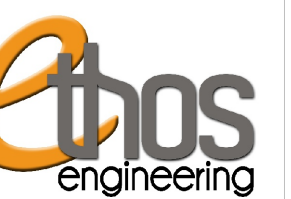
CSP # 27-LRPV-0424



TEXAS

**IDEA PUBLIC SCHOOLS
LOWER RGV PLUMBING UPGRADES**

RIO GRANDE VALLEY



1126 SOUTH COMMERCE ST.
MARLINGEN, TX
PHONE: 956-205-2455
TEXAS REGISTERED
ENGINEERING FIRM
E-15998

DATE: APRIL 19, 2024

CHECKED BY: C.A.G.

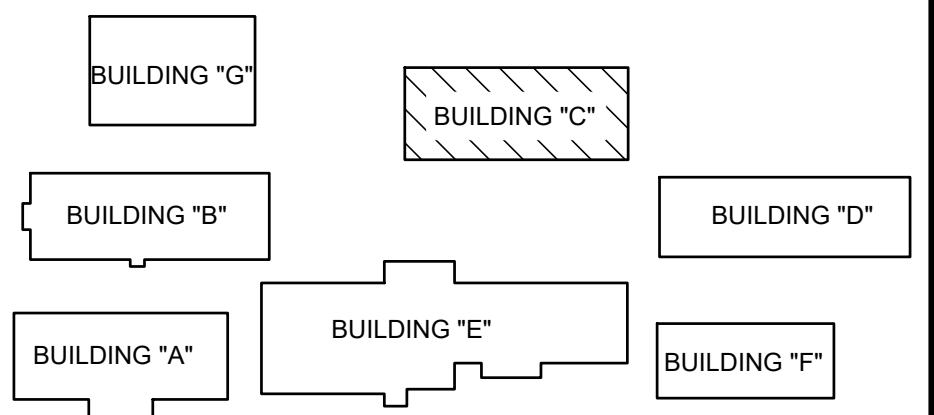
DRAWN BY: J.V.

PROJECT NO.: 23v82

CAD FILE:

SHEET:

P6.03



**FRONTIER IDEA ACADEMY
KEYPLAN**

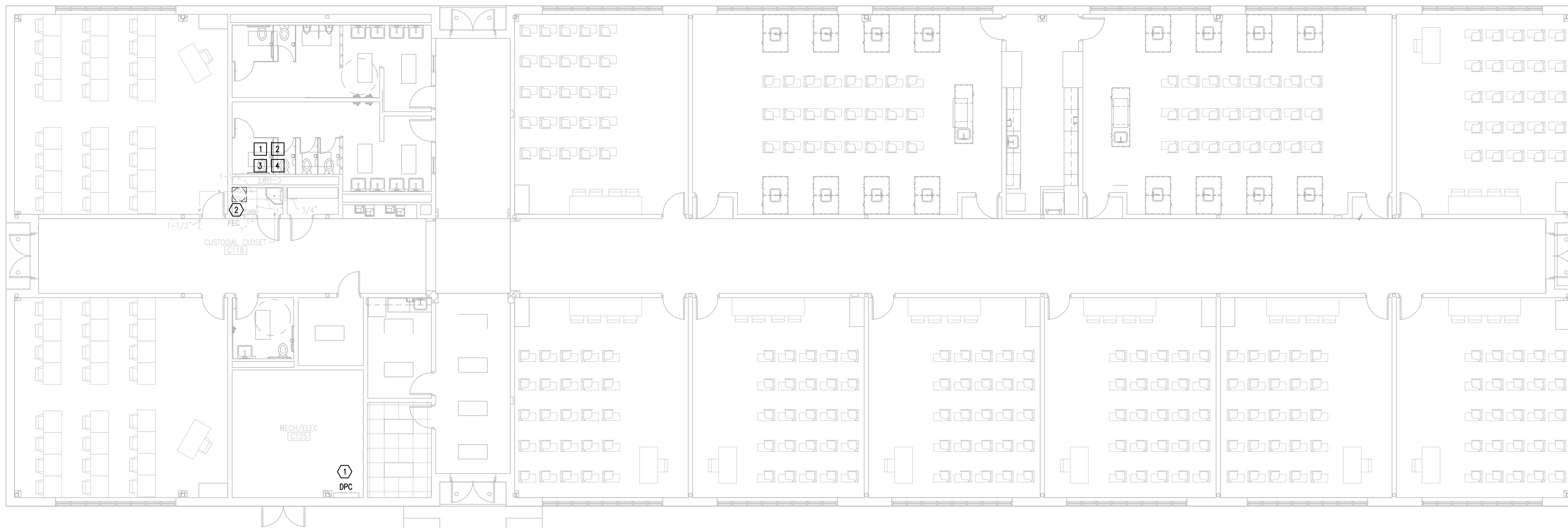
**IDEA SAN BENITO
01 PLUMBING PLAN**

(CAFETORIUM BUILDING)



NORTH

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



01 IDEA SAN BENITO
DEMOLITION ELECTRICAL AND PLUMBING PLAN (BUILDING D)
 SCALE : 1/8" = 1'-0" 



02 IDEA SAN BENITO
NEW ELECTRICAL AND PLUMBING PLAN (BUILDING D)
 SCALE : 1/8" = 1'-0" 

DEMOLITION GENERAL NOTES:

1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
2. A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION PLUMBING WORK. ALL INFORMATION SHOWN ON THE EXISTING CONSTRUCTION WILL BE REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR.
3. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF EXISTING NON REUSED PLUMBING EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
4. COORDINATE DEMOLITION OF DIVISION 22 SYSTEM AS REQUIRED WITH ALL OTHER TRADES.
5. ALL EXISTING EQUIPMENT AND MATERIALS REMOVED DURING CONSTRUCTION, THAT IS NOT TO BE REUSED, SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
6. COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT REMAIN.
7. PREPARE AREA FOR INSTALLATION OF NEW PLUMBING SYSTEMS. REFER TO NEW PLANS AND COORDINATE WITH DEMOLITION WORK.
8. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD AND HOT WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.

GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.
2. PLUMBING CONTRACTOR SHALL PERFORM ALL WORK CAREFULLY TO NOT DAMAGE BUILDING FACADE/STRUCTURE.

DEMOLITION PLUMBING KEYED NOTES:

- 1 DEMOLISH EXISTING ELECTRIC WATER HEATER AT THIS APPROXIMATE LOCATION.
- 2 ISOLATE AND DISCONNECT EXISTING COLD AND HOT WATER PIPES SERVING PLUMBING FIXTURE AT THIS APPROXIMATE LOCATION. CONNECT AFTER REPLACING.
- 3 DEMOLISH EXISTING PLUMBING FIXTURES MARKED ON PLANS.
- 4 PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

PLUMBING KEYED NOTES:

- 1 PROVIDE NEW ELECTRIC WATER HEATER EWH-3 AS PER SCHEDULE UNDER SCHEDULE SHEET P6.05 OR AN APPROVED EQUAL. ADJUST PLUMBING LINES AND FITTINGS TO THE NEW PLUMBING FIXTURE AS NECESSARY. REFER TO DETAIL ON DETAIL SHEET P5.11.

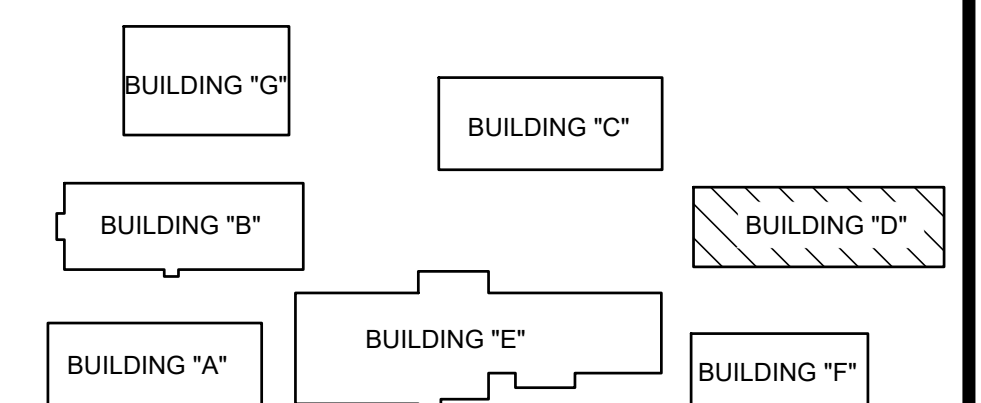
PLUMBING LEGEND	
---	TO BE DEMOLISHED

DEMOLITION ELECTRICAL KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 DISCONNECT EXISTING ELECTRIC WATER HEATER FOR INSTALLATION OF NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT.

ELECTRICAL NEW KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING ELECTRIC WATER HEATER.
- 2 CONNECT NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT. IF EXISTING BRANCH CIRCUIT DOES NOT REACH NEW POINT OF CONNECTION PROVIDE A J-BOX AND EXTEND WIRING AS NECESSARY.



FRONTIER IDEA ACADEMY
 KEYPLAN

NO. REVISION: BY:

COPY NO:

CSP # 27-LRP-0424



TEXAS

IDEA PUBLIC SCHOOLS
 LOWER RGV PLUMBING UPGRADES

RIO GRANDE VALLEY



1126 SOUTH COMMERCE ST.
 MARLINGEN, TX
 PHONE: 956-205-2435
 TEXAS REGISTERED
 ENGINEERING FIRM
 E-15598

DATE: APRIL 19, 2024

CHECKED BY: C.A.G.

DRAWN BY: J.V.

PROJECT NO.: 23v82

CAD FILE:
 SHEET:

P6.04

PLUMBING FIXTURE SCHEDULE

Project: IDEA PS PLUMBING UPGRADES AT LOWER RGV CAMPUSES

MARK	MANUFACTURER & MODEL NUMBER	DESCRIPTION	CONNECTIONS					REMARKS
			WASTE	VENT	CW	HW	NOTES	
TS-1	ZURN 1072	TRAP SEAL DEVICE FOR USE WITH FLOOR DRAINS TO MINIMIZE TRAP EVAPORATION. PRODUCT IS COMPRISED OF AN ABS RIGID STRUCTURE, SILICONE GASKET AND SEAL FOR 2" [51 MM], 3" [76 MM], 3-1/2" [89 MM], AND 4" [102 MM] SIZES. DEVICE IS ENGINEERED TO COMPLY WITH THE PERFORMANCE REQUIREMENTS OF ASSE 1072 STANDARD AND IS THIRD PARTY LISTED WITH IAPMO (UPC), ICC (ICC CES PMG) AND ASSE	3"	-	-	-	-	

ELECTRIC WATER HEATER SCHEDULE

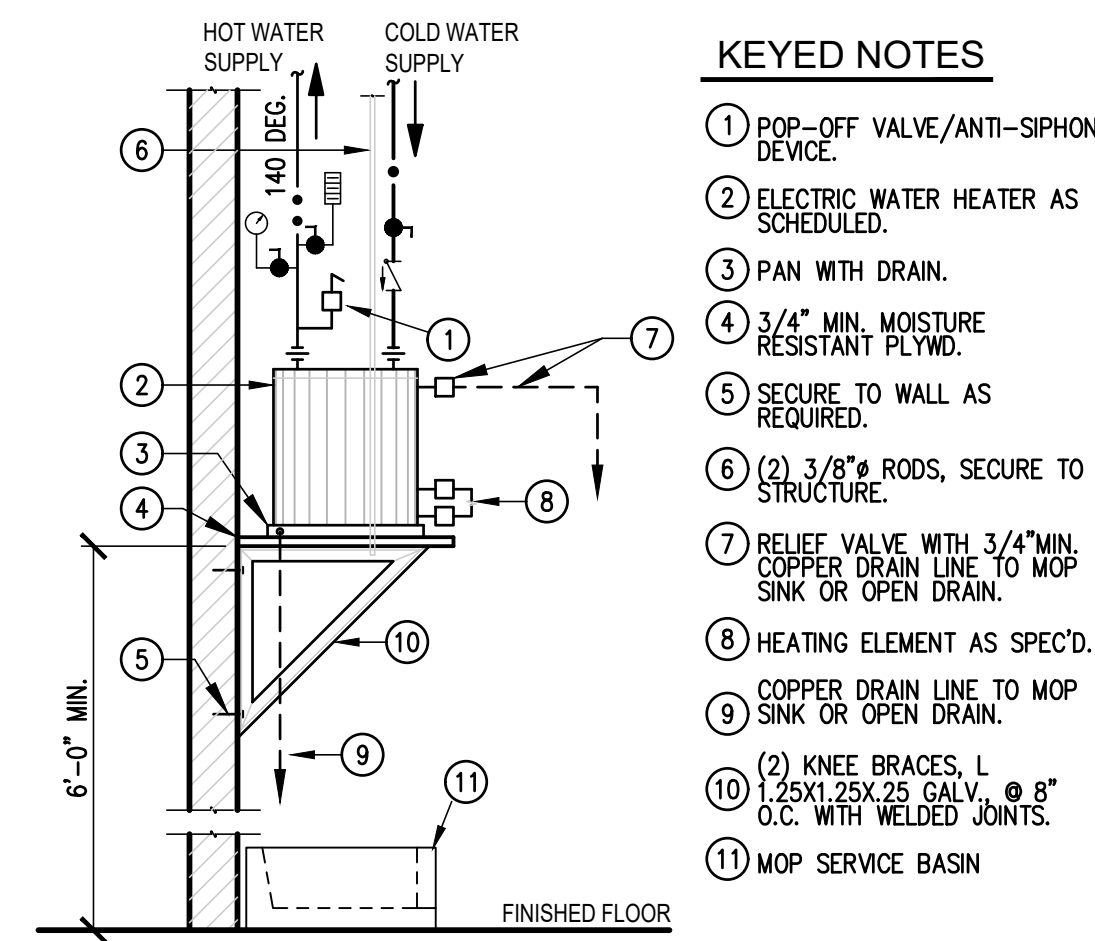
Project: IDEA PS PLUMBING UPGRADES AT LOWER RGV CAMPUSES

MARK	LOCATION	SERVING	GALLON CAPACITY	KW	NUMBER OF ELEMENTS	RECOVERY IN GPH AT 120°F RISE	ELECT. V/P/H	MANUFACTURER & MODEL	NOTES
EWH-1	SEE PLANS	SEE PLANS	6	3	1	10	208/1/60	A.O. SMITH DEL-6	ALL
EWH-2	SEE PLANS	SEE PLANS	6	3	1	10	208/1/60	A.O. SMITH DEL-6	ALL
EWH-3	SEE PLANS	SEE PLANS	6	3	1	10	208/1/60	A.O. SMITH DEL-6	ALL

NOTES:

1. MANUFACTURER & MODEL NUMBER ARE "OR APPROVED EQUAL".
2. PROVIDE IMMERSION TYPE THERMOSTAT.

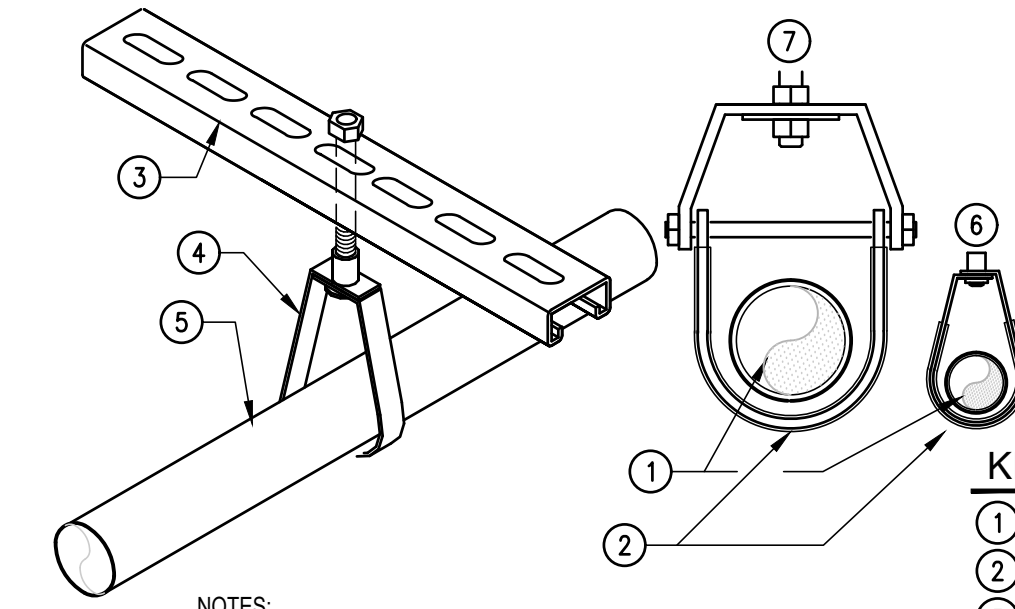
NOTE:
PROVIDE HEAT TRAP DEVICE OR AN ARRANGEMENT OF TUBING AS PER IECC.
INSULATE THE FIRST 8' OF OUTLET PIPING AND THE INLET PIPING BETWEEN THE STORAGE TANK AND A HEAT TRAP (INCLUDE THE HEAT TRAP).



**EWH-1,2&3
WALL MOUNTED
ELECTRIC WATER HEATER DETAIL**
03 SCALE: NOT TO SCALE

KEYED NOTES

- 1 POP-OFF VALVE/ANTI-SIPHON DEVICE.
- 2 ELECTRIC WATER HEATER AS SCHEDULED.
- 3 PAN WITH DRAIN.
- 4 3/4" MIN. MOISTURE RESISTANT PLYWD.
- 5 SECURE TO WALL AS REQUIRED.
- 6 (2) 3/8" RODS, SECURE TO STRUCTURE.
- 7 RELIEF VALVE WITH 3/4" MIN. COPPER DRAIN LINE TO MOP SINK OR OPEN DRAIN.
- 8 HEATING ELEMENT AS SPEC'D.
- 9 COPPER DRAIN LINE TO MOP SINK OR OPEN DRAIN.
- 10 (2) KNEE BRACES, 1 1/2"x1.25"x.25 GALV. Ø .8" O.C. WITH WELDED JOINTS.
- 11 MOP SERVICE BASIN



NOTES:
1. PROVIDE PLASTIC COATED HANGERS: COOPER B-LINE
2. MODEL: B3100C OR APPROVED EQUAL FOR CLEVIS
3. HANGERS: MODEL: B3172C OR APPROVED EQUAL FOR BAND HANGERS.

**DOMESTIC WATER LINE
PIPING SUPPORT DETAIL**
04 SCALE: NOT TO SCALE

KEYED NOTES

- 1 SCHEDULED PIPE.
- 2 PLASTIC COATING.
- 3 UNI-STRUT.
- 4 PIPE HANGER.
- 5 DOMESTIC WATER LINE, COPPER DRAIN LINE FROM AHU'S.
- 6 BAND HANGER.
- 7 CLEVIS HANGER.

NO. REVISION: BY:

COPY NO:

CSP # 27-LRPU-0424



TEXAS

IDEA PUBLIC SCHOOLS
LOWER RGV PLUMBING UPGRADES

RIO GRANDRE VALLEY



1128 SOUTH COMMERCE ST.
MCKINNEY, TX
PHONE: 956-235-2435
TEXAS REGISTERED
ENGINEERING FIRM
E-15598

DATE: APRIL 19, 2024

CHECKED BY: C.A.G.

DRAWN BY: J.V.

PROJECT NO.: 23v82

CAD FILE:

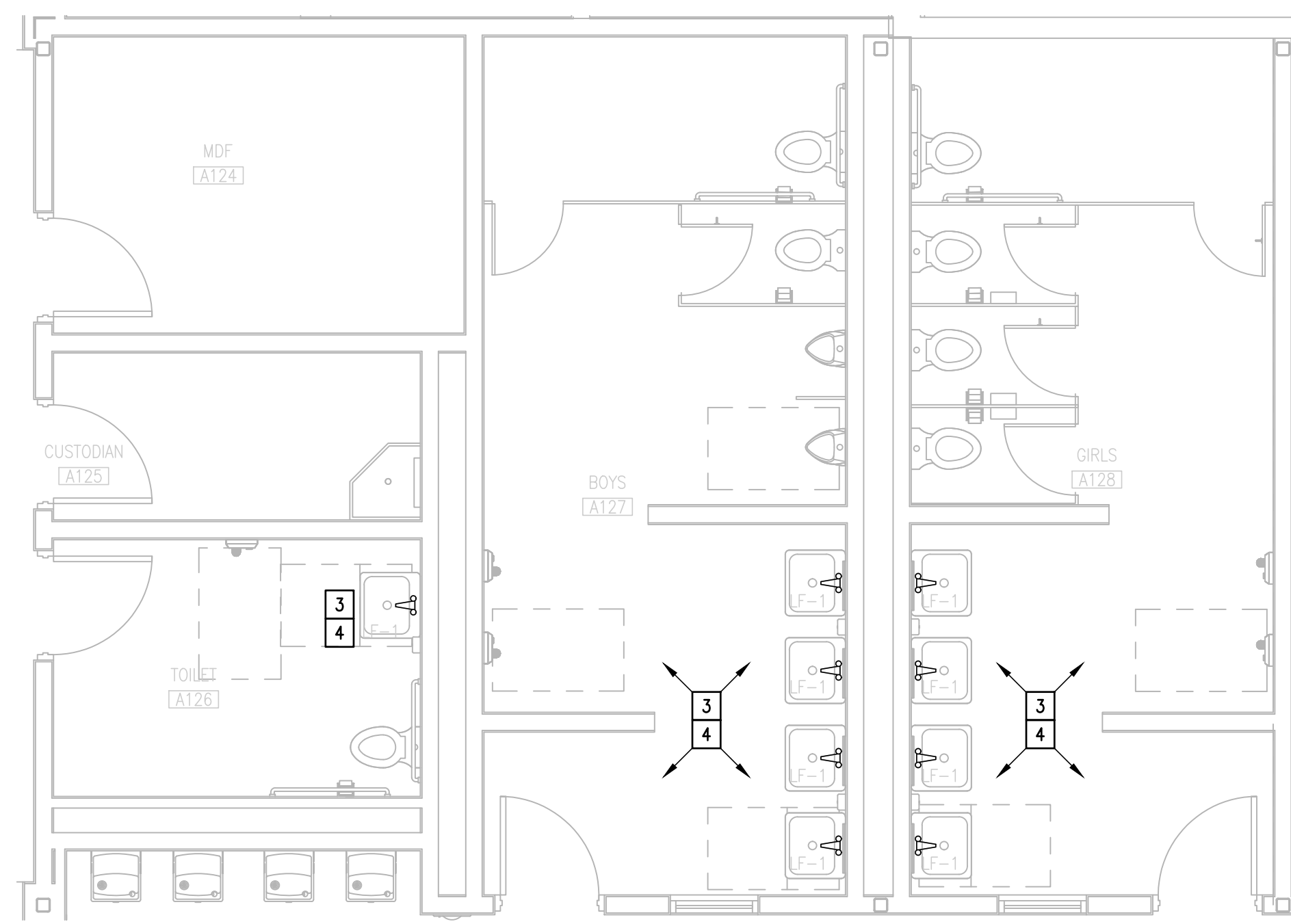
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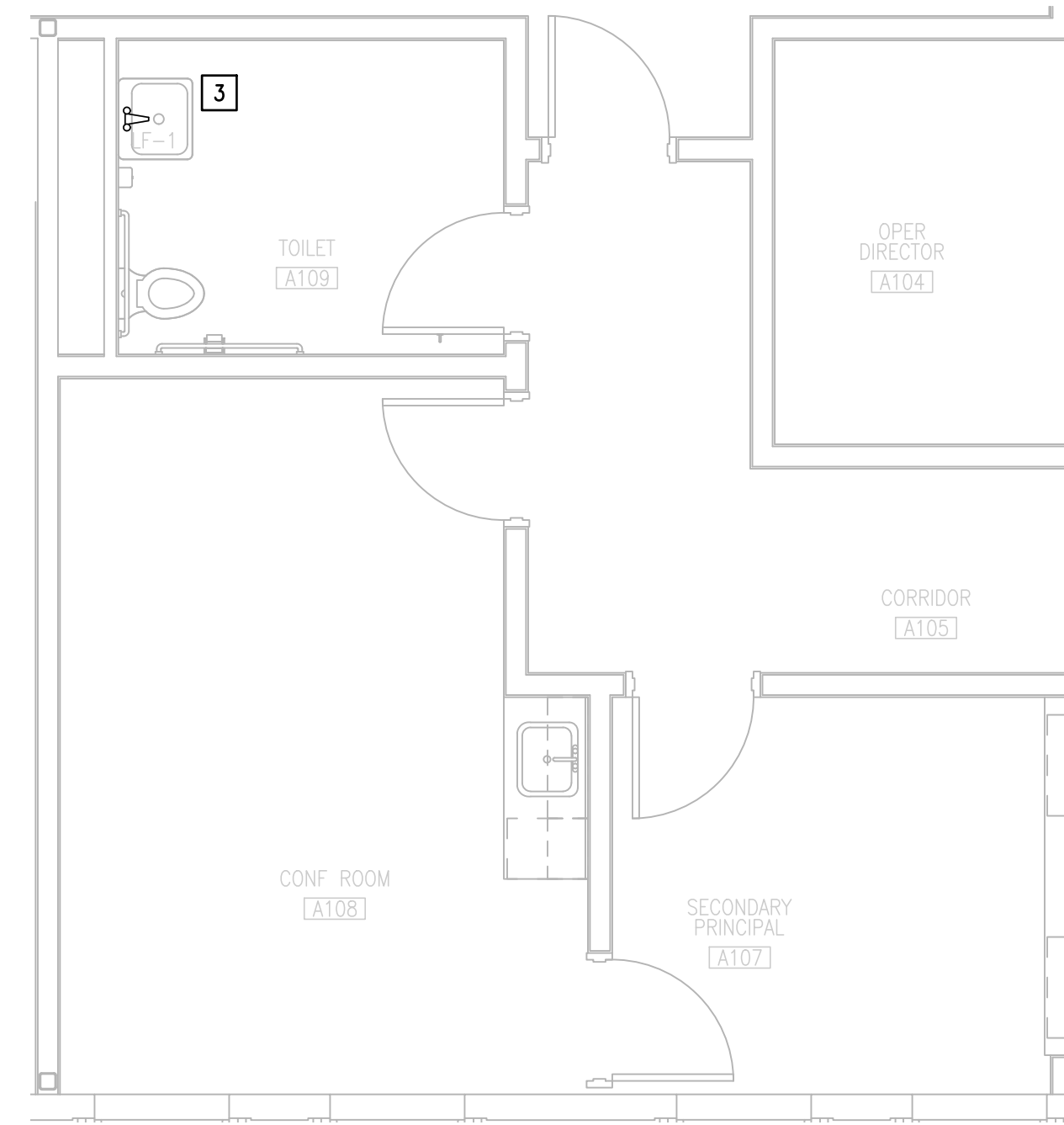
01 EWH-1,2&3
SCALE: NOT TO SCALE

02 TS-1
SCALE: NOT TO SCALE

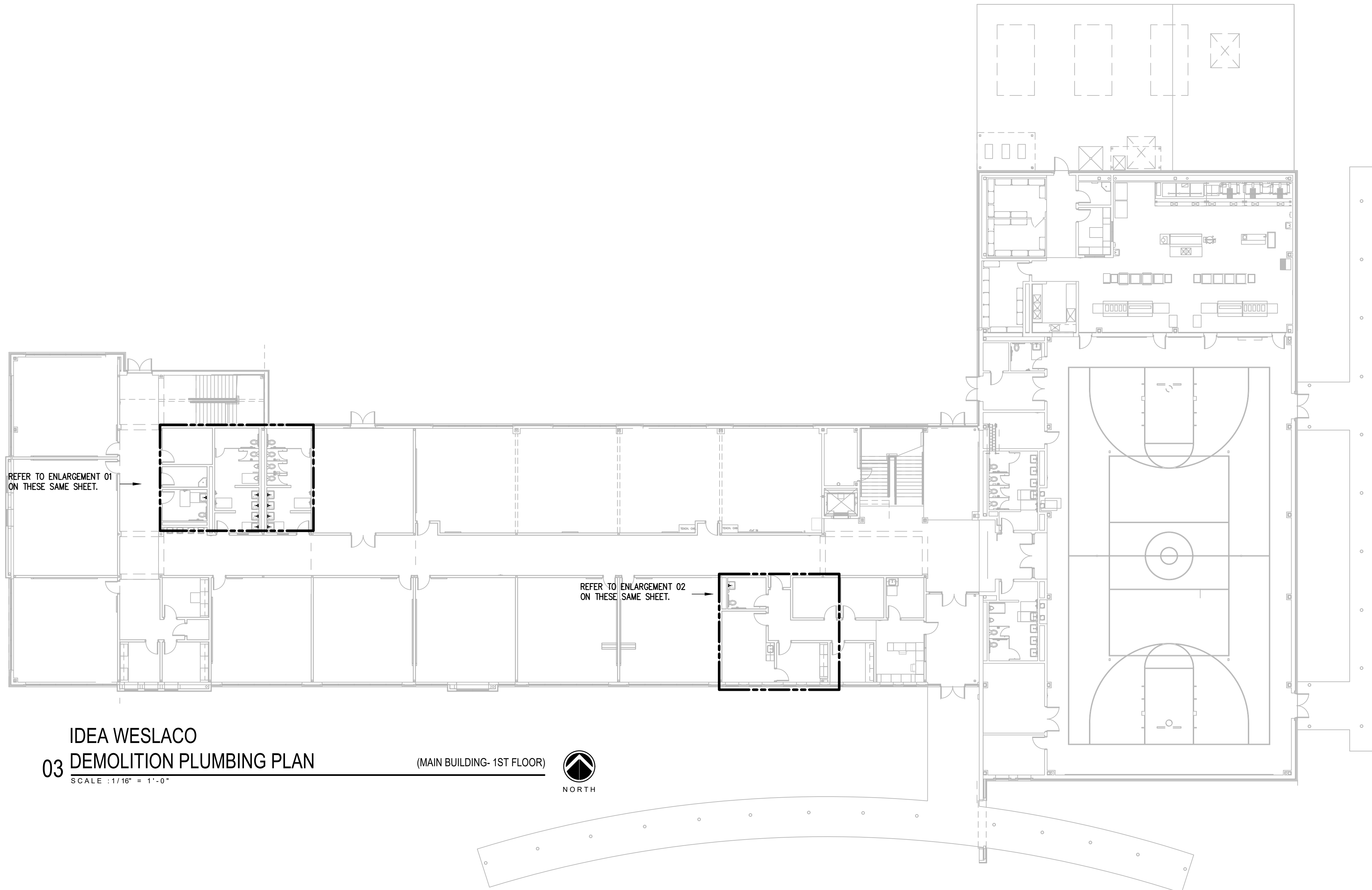




01 ENLARGEMENT IDEA WESLACO
DEMOLITION PLUMBING PLAN (MAIN BUILDING- 1ST FLOOR)
 SCALE : 1/4" = 1'-0" NORTH



02 ENLARGEMENT IDEA WESLACO
DEMOLITION PLUMBING PLAN (MAIN BUILDING- 1ST FLOOR)
 SCALE : 1/4" = 1'-0" NORTH



03 IDEA WESLACO
DEMOLITION PLUMBING PLAN (MAIN BUILDING- 1ST FLOOR)
 SCALE : 1/16" = 1'-0" NORTH

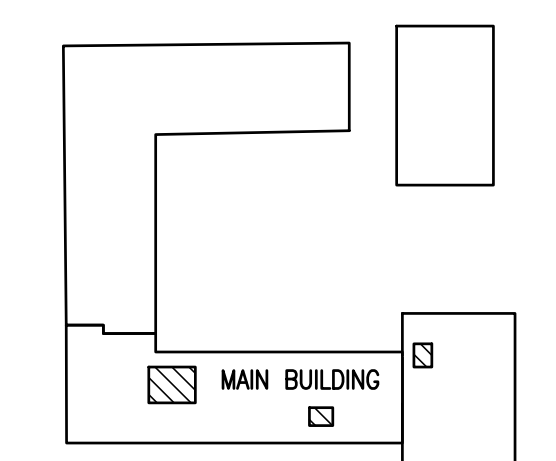
DEMOLITION GENERAL NOTES:

1. ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
2. A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION PLUMBING WORK. ALL INFORMATION SHOWN ON THE EXISTING CONSTRUCTION WILL BE REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR.
3. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF EXISTING NON REUSED PLUMBING EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
4. COORDINATE DEMOLITION OF DIVISION 22 SYSTEM AS REQUIRED WITH ALL OTHER TRADES.
5. ALL EXISTING EQUIPMENT AND MATERIALS REMOVED DURING CONSTRUCTION, THAT IS NOT TO BE REUSED, SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
6. COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT REMAIN.
7. PREPARE AREA FOR INSTALLATION OF NEW PLUMBING SYSTEMS. REFER TO NEW PLANS AND COORDINATE WITH DEMOLITION WORK.
8. PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD AND HOT WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.

DEMOLITION PLUMBING KEYED NOTES:

- 1 DEMOLISH EXISTING HOT WATER CIRCULATING PUMP AT THIS APPROXIMATE LOCATION (CP-1).
- 2 DEMOLISH EXISTING THERMOSTATIC MIXING VALVE (TMV-1) AT THIS APPROXIMATE LOCATION.
- 3 DEMOLISH EXISTING LAVATORY FAUCET AT THIS APPROXIMATE LOCATION (LF-1).
- 4 PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

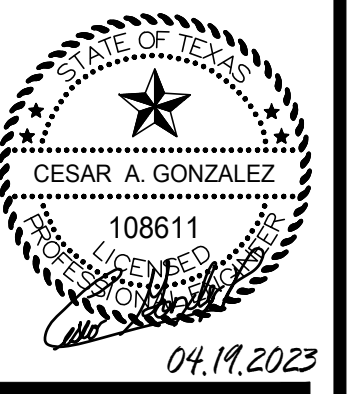
PLUMBING LEGEND	
---	TO BE DEMOLISHED



WESLACO IDEA ACADEMY
 KEYPLAN

NO. REVISION: BY:

COPY NO:
 CSP # 27-LRPV-0424



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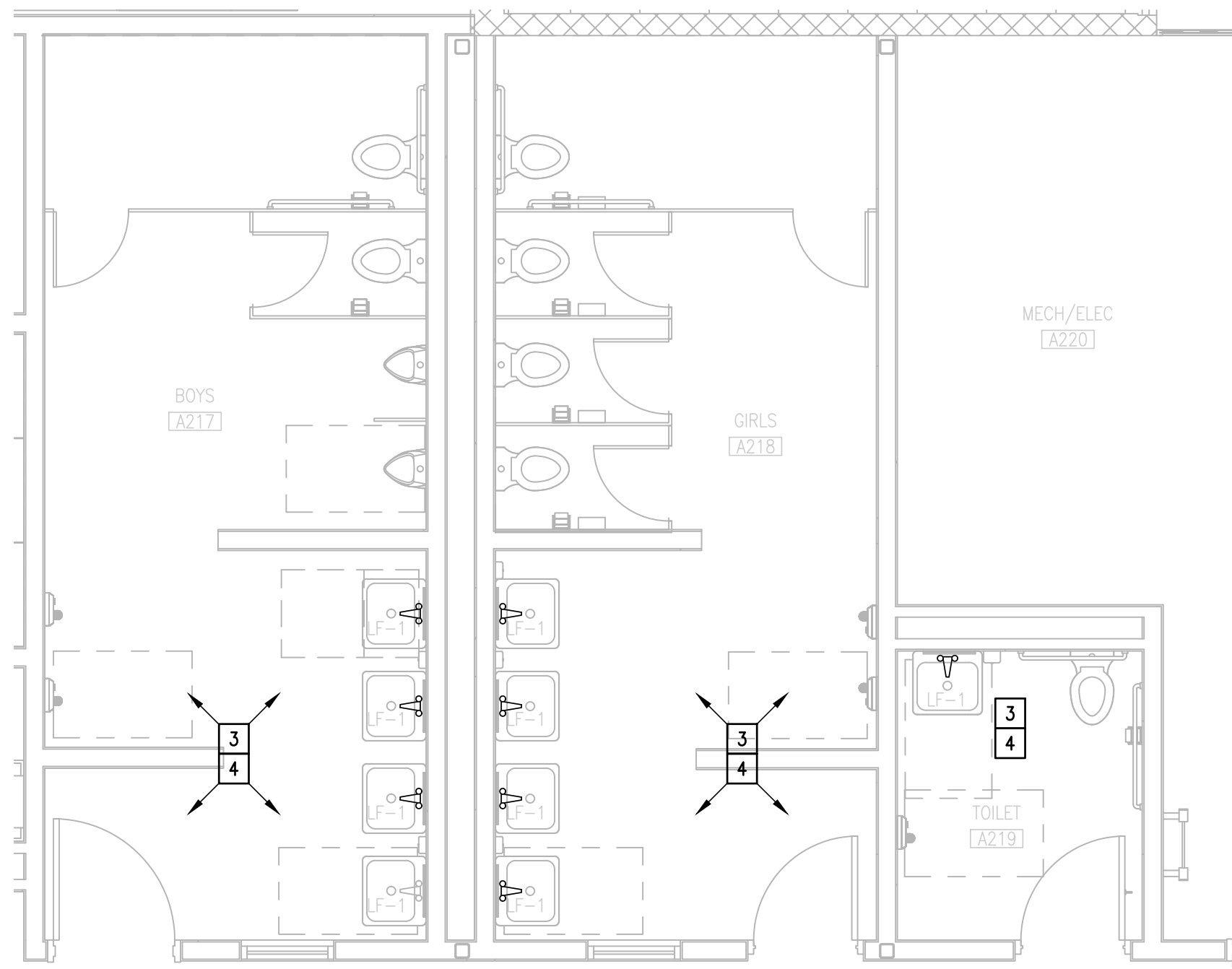
IDEA PUBLIC SCHOOLS
LOWER RGV PLUMBING UPGRADES

RIO GRANDE VALLEY

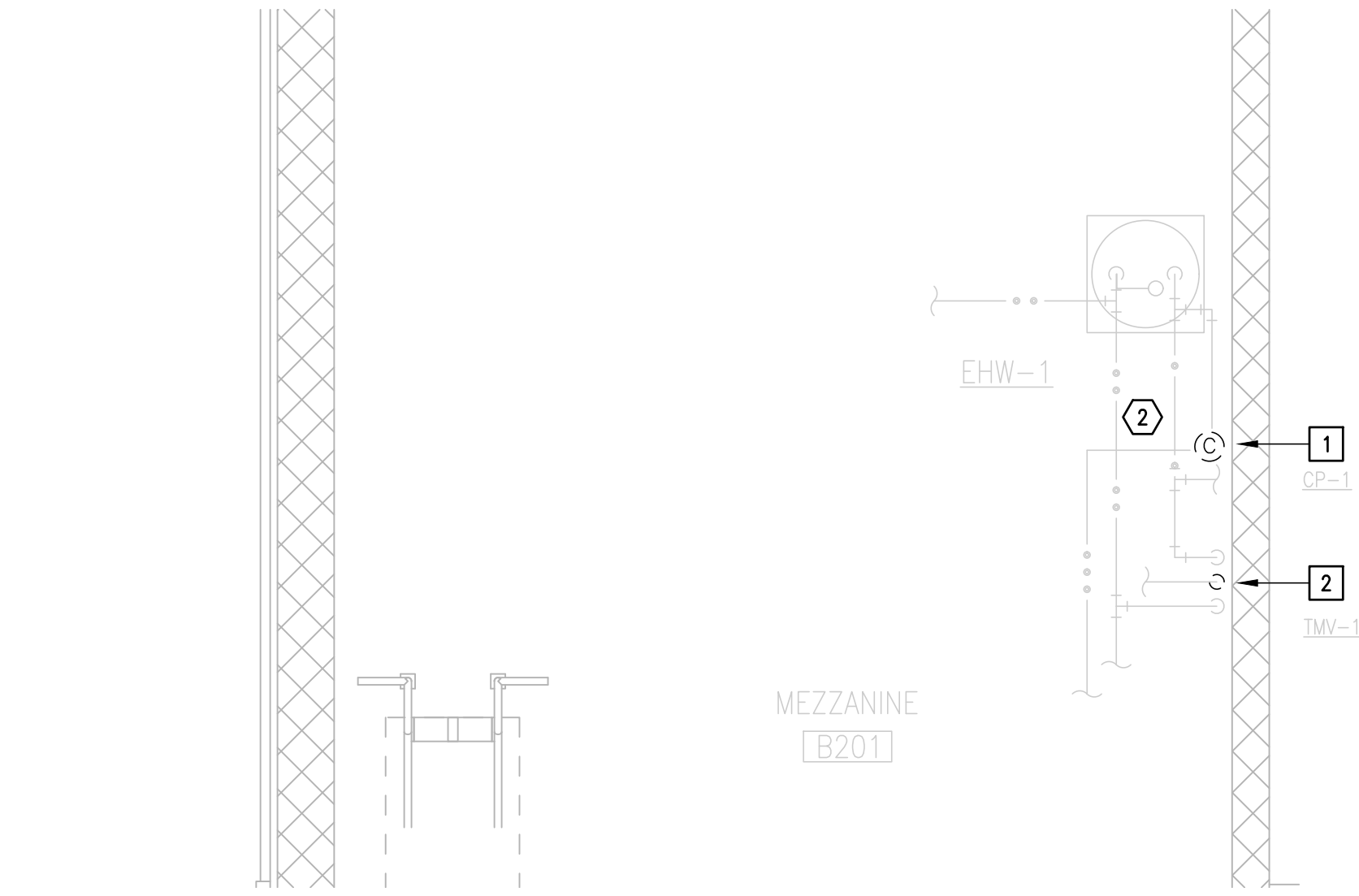


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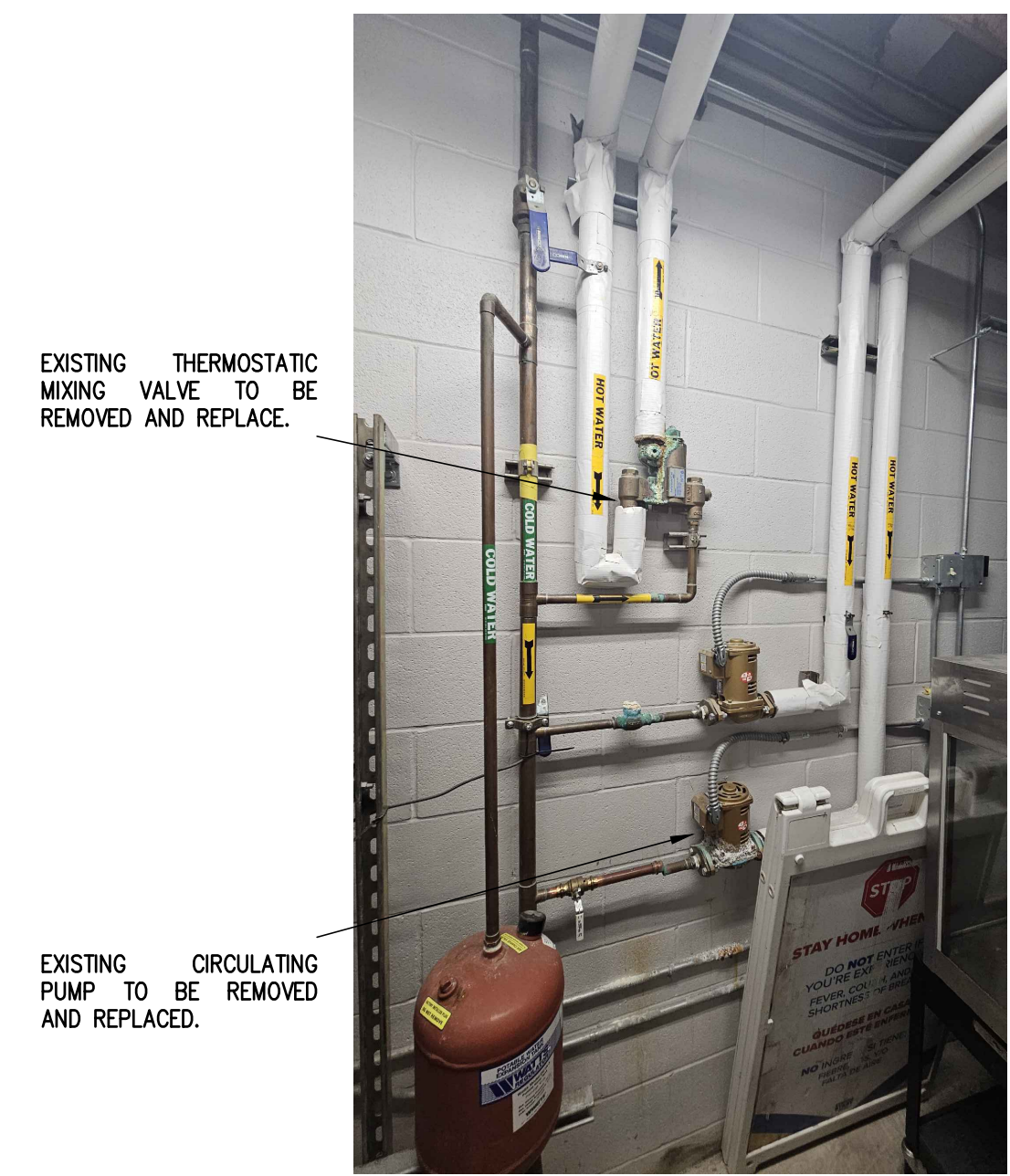
P7.01



01 ENLARGEMENT IDEA WESLACO DEMOLITION PLUMBING PLAN (MAIN BUILDING- 2ND FLOOR)
 SCALE : 1/4" = 1'-0"



02 ENLARGEMENT IDEA WESLACO DEMOLITION ELECTRICAL AND PLUMBING PLAN (MAIN BUILDING- 1ST FLOOR)
 SCALE : 3/8" = 1'-0"



EXISTING THERMOSTATIC MIXING VALVE TO BE REMOVED AND REPLACE.
 EXISTING CIRCULATING PUMP TO BE REMOVED AND REPLACED.

03 EXISTING CONDITIONS
 SCALE : NOT TO SCALE

DEMOLITION GENERAL NOTES:

- ALL DEMOLITION WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING THOSE PUBLISHED BY OSHA.
- A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION PLUMBING WORK. ALL INFORMATION SHOWN ON THE EXISTING CONSTRUCTION WILL BE REFERENCE ONLY AND WILL NEED TO BE FIELD VERIFIED BY THE CONTRACTOR.
- PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL OF EXISTING NON REUSED PLUMBING EQUIPMENT AND ASSOCIATED DEVICES. PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
- COORDINATE DEMOLITION OF DIVISION 22 SYSTEM AS REQUIRED WITH ALL OTHER TRADES.
- ALL EXISTING EQUIPMENT AND MATERIALS REMOVED DURING CONSTRUCTION, THAT IS NOT TO BE REUSED, SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
- COORDINATE WITH OWNER, AND DISPOSE OF EQUIPMENT AND MATERIALS THAT OWNER DOES NOT REMAIN.
- PREPARE AREA FOR INSTALLATION OF NEW PLUMBING SYSTEMS. REFER TO NEW PLANS AND COORDINATE WITH DEMOLITION WORK.
- PLUMBING CONTRACTOR SHALL ISOLATE DOMESTIC COLD AND HOT WATER SYSTEM AT THE WORKING AREAS PRIOR ANY WORK BEING DONE.

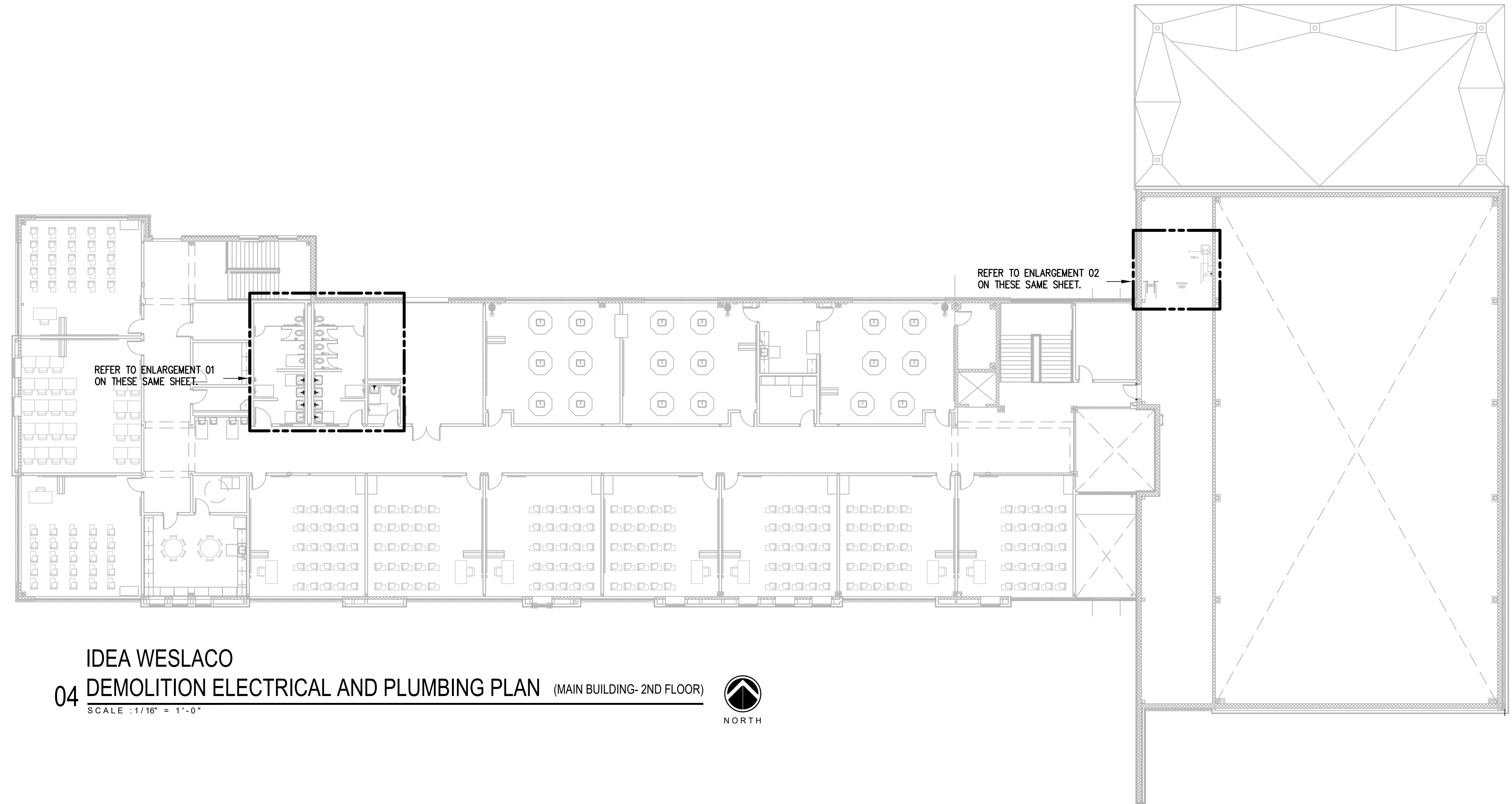
DEMOLITION PLUMBING KEYED NOTES:

- DEMOLISH EXISTING HOT WATER CIRCULATING PUMP AT THIS APPROXIMATE LOCATION (CP-1).
- DEMOLISH EXISTING THERMOSTATIC MIXING VALVE (TMV-1) AT THIS APPROXIMATE LOCATION.
- DEMOLISH EXISTING LAVATORY FAUCET AT THIS APPROXIMATE LOCATION (LF-1).
- PREPARE AREA FOR INSTALLATION OF NEW PLUMBING FIXTURES. COORDINATE WITH DEMOLITION.

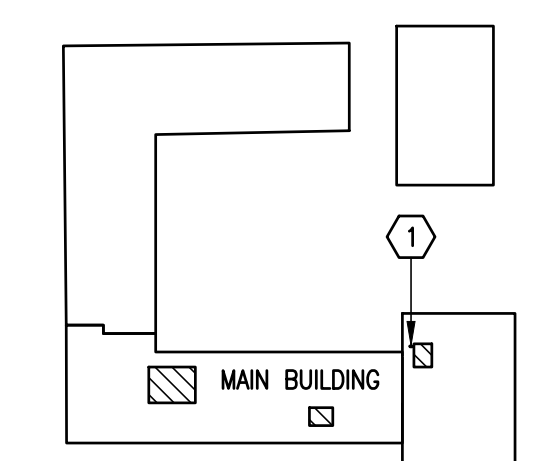
DEMOLITION ELECTRICAL KEYED NOTES:

- APPROXIMATE LOCATION OF EXISTING PANELBOARD AT FIRST FLOOR SERVING ELECTRIC CIRCULATING PUMP.
- DISCONNECT EXISTING ELECTRIC CIRCULATING PUMP FOR INSTALLATION OF NEW ELECTRIC CIRCULATING PUMP. RETAIN AND REUSE EXISTING BRANCH CIRCUIT.

PLUMBING LEGEND	
---	TO BE DEMOLISHED



04 IDEA WESLACO DEMOLITION ELECTRICAL AND PLUMBING PLAN (MAIN BUILDING- 2ND FLOOR)
 SCALE : 1/16" = 1'-0"



WESLACO IDEA ACADEMY KEYPLAN

NO. REVISION: BY:

COPY NO:
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TEXAS

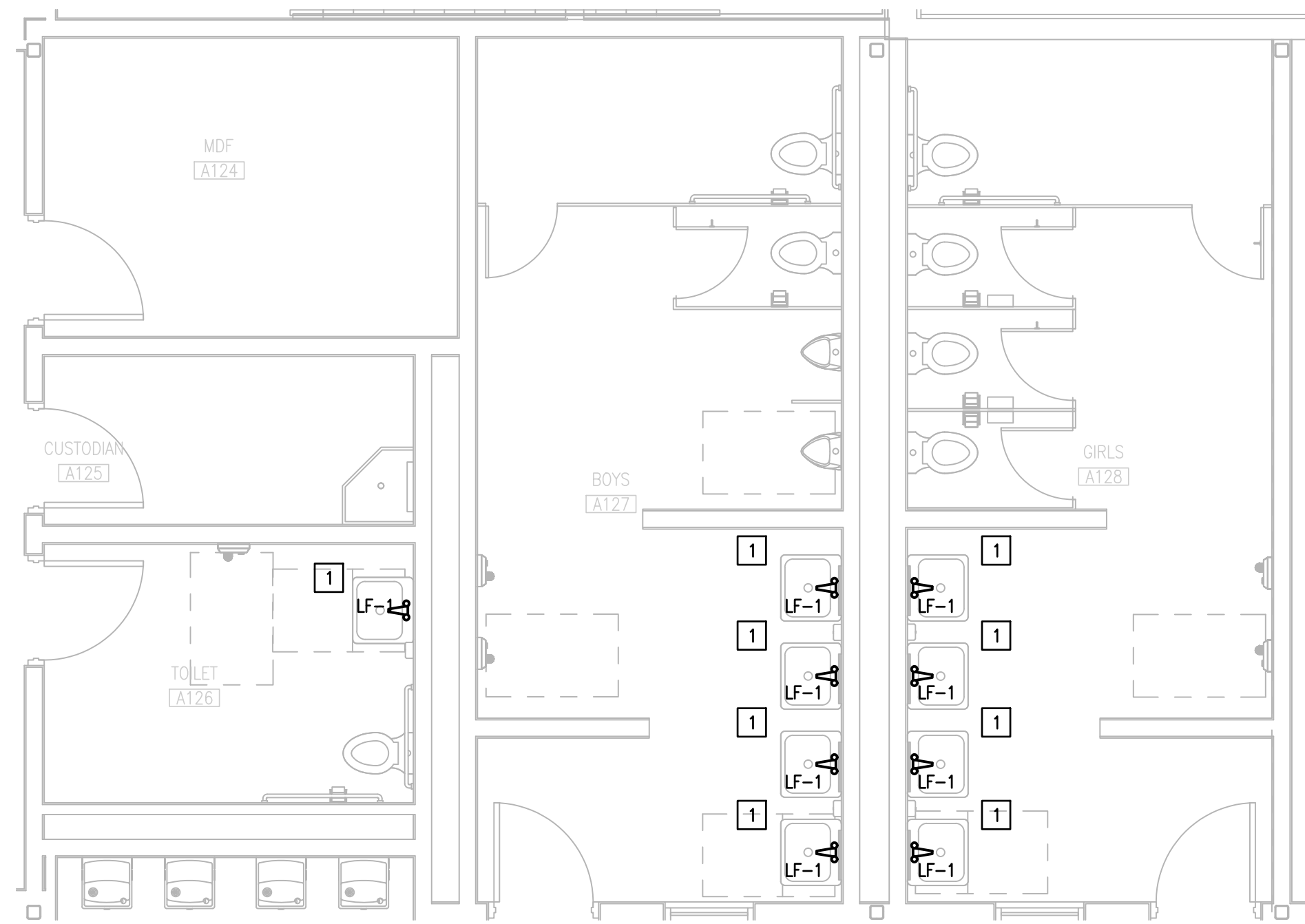
IDEA PUBLIC SCHOOLS
 LOWER RGV PLUMBING UPGRADES

RIO GRANDE VALLEY



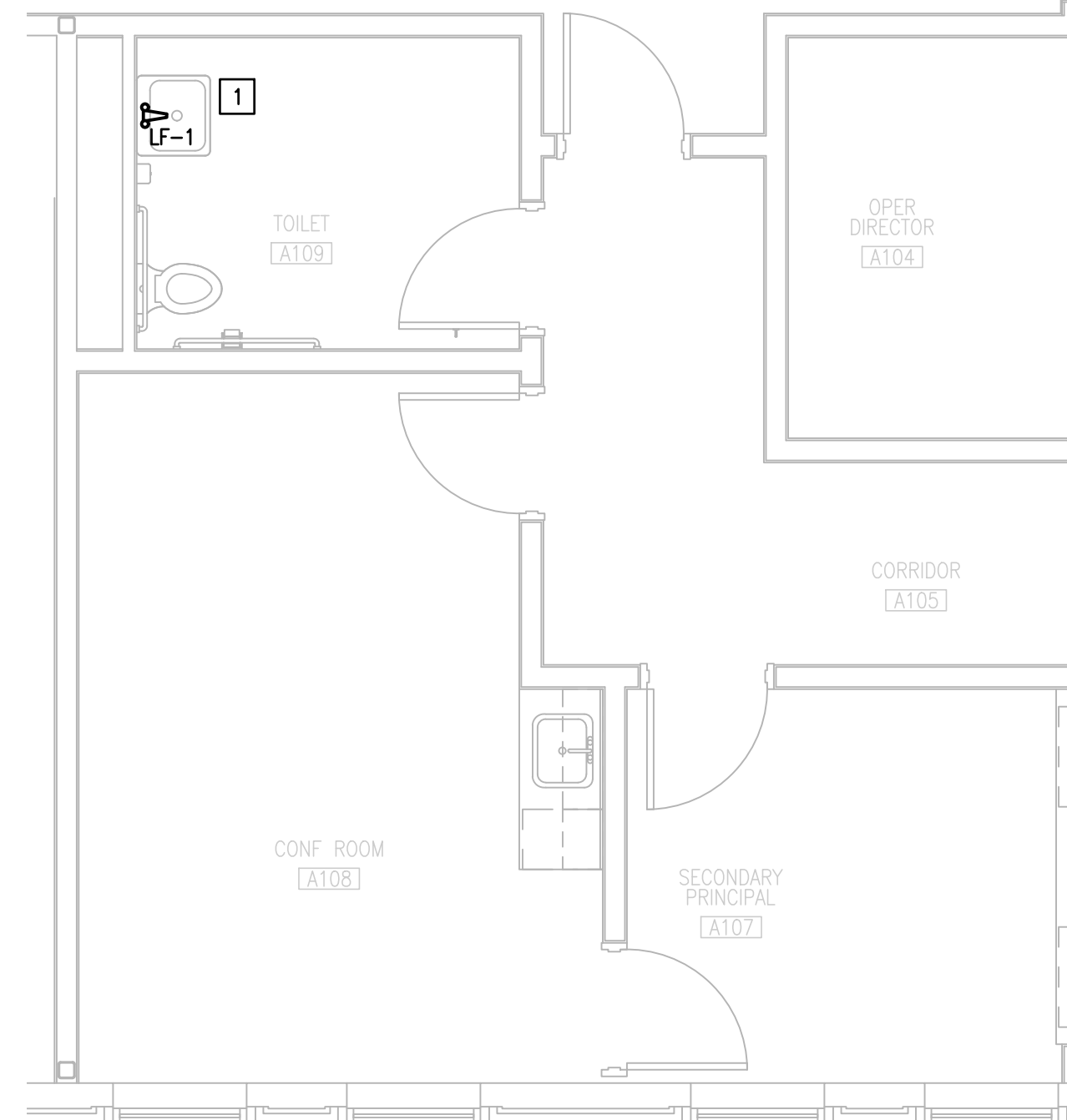
DATE: APRIL 19, 2024
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 DRAWN BY: J.V.
 PROJECT NO.: 23v82
 CAD FILE:
 SHEET:

P7.02



ENLARGEMENT IDEA WESLACO
01 NEW PLUMBING PLAN

(MAIN BUILDING- 1ST FLOOR)



ENLARGEMENT IDEA WESLACO
02 NEW PLUMBING PLAN

(MAIN BUILDING- 1ST FLOOR)

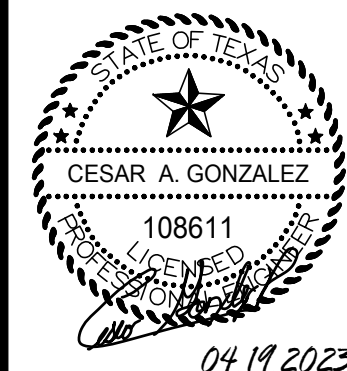


PLUMBING KEYED NOTES:

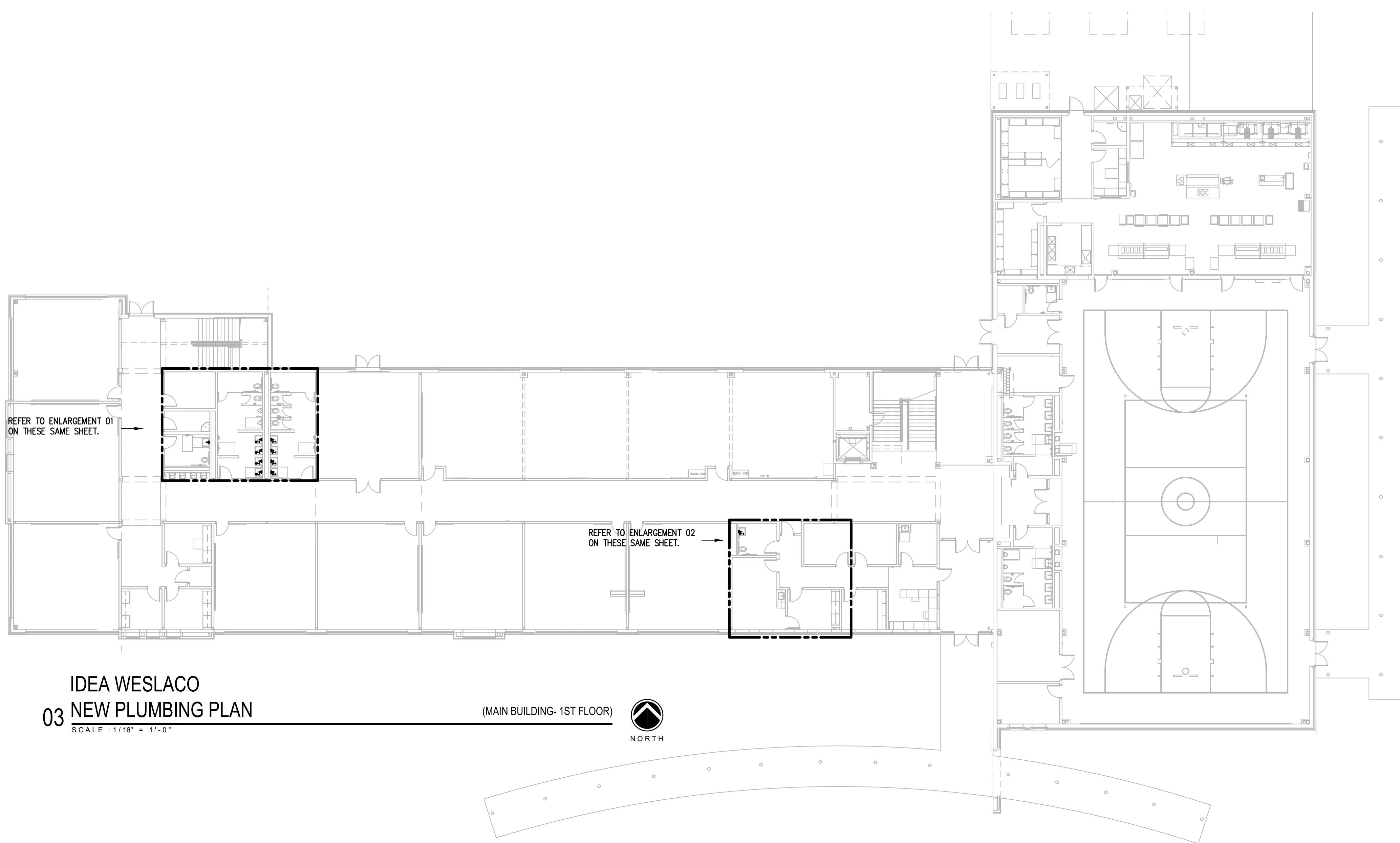
- 1 PROVIDE NEW FAUCET WITH NEW ONE INDICATED ON SCHEDULE ON SHEET P7.05. ADJUST PLUMBING LINES AND FITTINGS TO THE NEW PLUMBING FIXTURE AS NECESSARY.

NO. REVISION: BY:

COPY NO:
CSP # 27-LRPU-0424

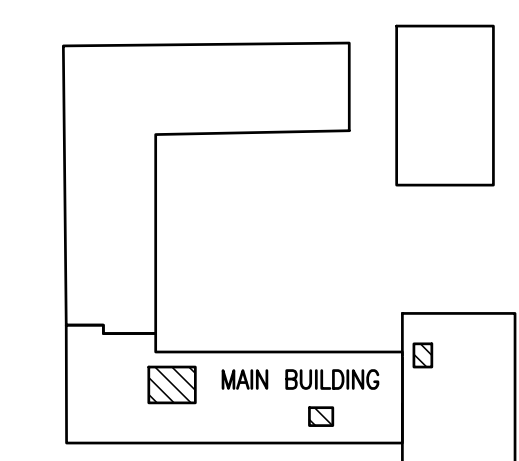


TEXAS



IDEA WESLACO
03 NEW PLUMBING PLAN

(MAIN BUILDING- 1ST FLOOR)



WESLACO IDEA ACADEMY
KEYPLAN

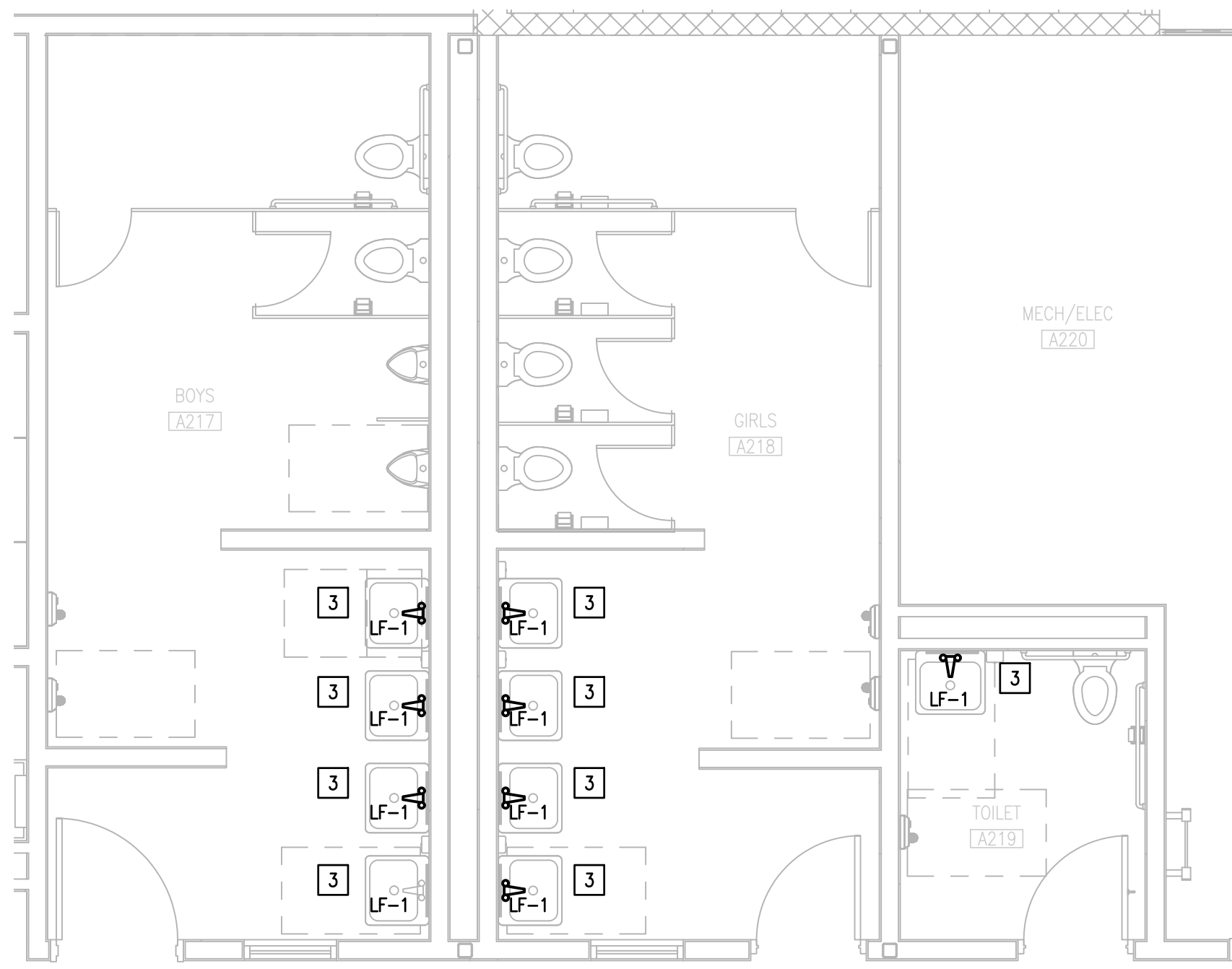
IDEA PUBLIC SCHOOLS
LOWER RGV PLUMBING UPGRADES

RIO GRANDE VALLEY



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DRAWN BY: J.V.
PROJECT NO.: 23v82
CAD FILE:
SHEET:

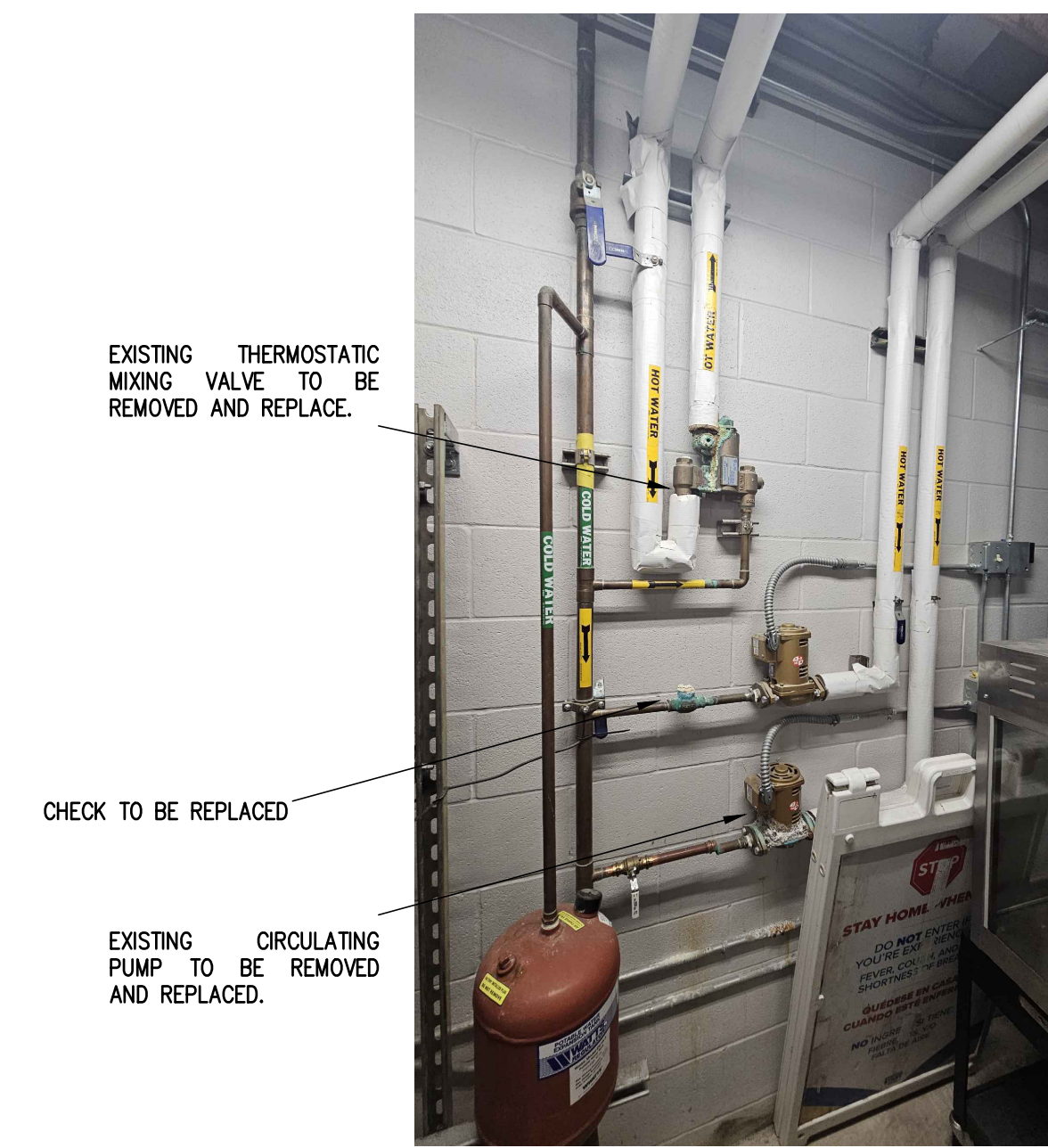
P7.03



01 ENLARGEMENT IDEA WESLACO
DEMOLITION PLUMBING PLAN (MAIN BUILDING- 2ND FLOOR)
 SCALE : 1/4" = 1'-0" NORTH



02 IDEA WESLACO
ENLARGED NEW ELECTRICAL AND PLUMBING PLAN (MAIN BUILDING- 1ST FLOOR)
 SCALE : 3/8" = 1'-0" NORTH



03 EXISTING CONDITIONS
 SCALE : NOT TO SCALE

GENERAL NOTES:

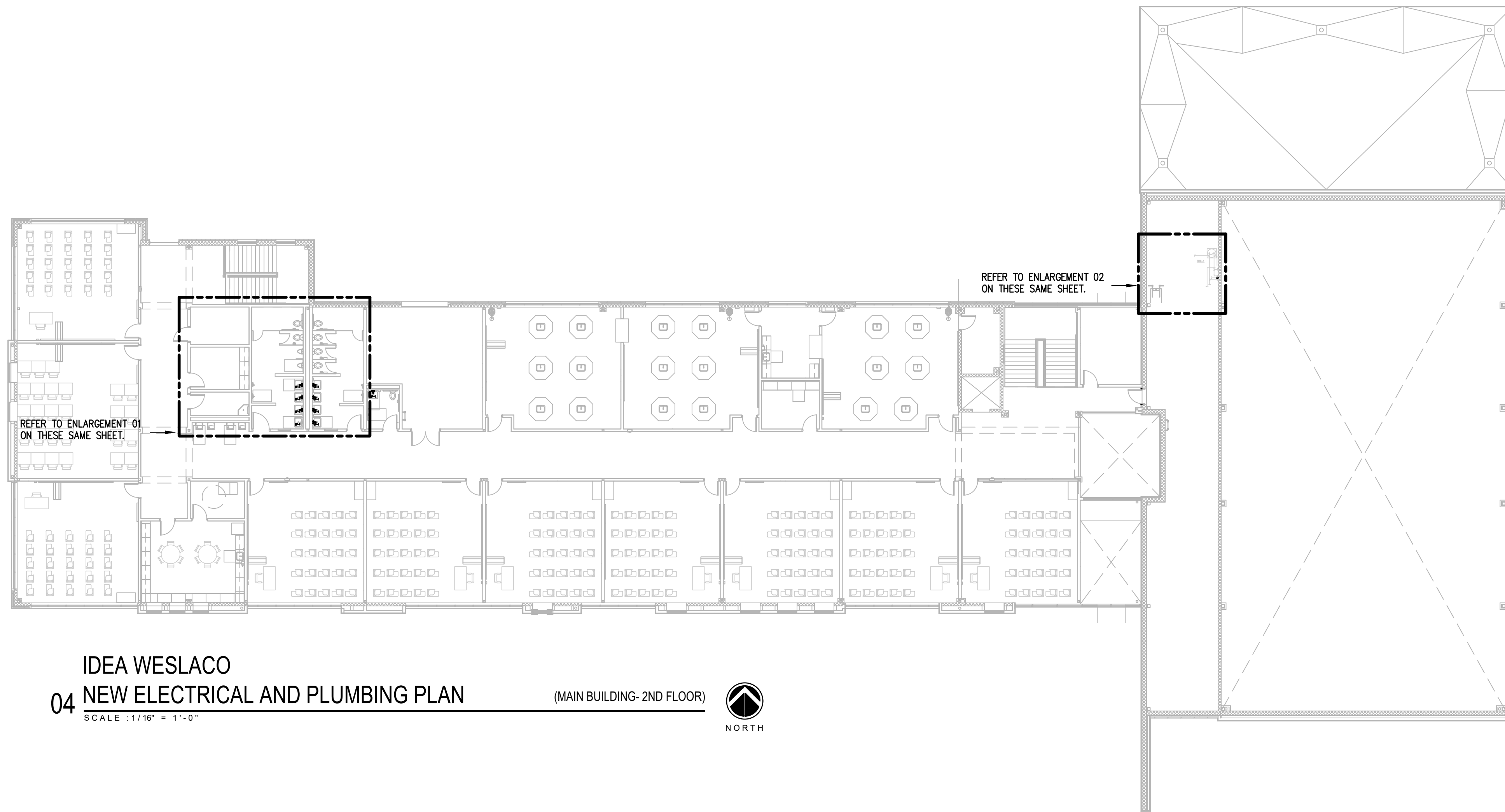
1. PLUMBING CONTRACTOR SHALL TURN ON TEMPERED WATER SYSTEM SERVING RESTROOMS AFTER REPLACING THERMOSTATIC MIXING VALVE, CIRCULATING PUMPS AND VALVES. CONTRACTOR SHALL PROVIDE INSULATION TO ALL HOT WATER AND TEMPERED WATER PIPING AS PER SPECIFICATIONS TO THE AREAS WHERE WORK IS BEING PERFORMED.

PLUMBING KEYED NOTES:

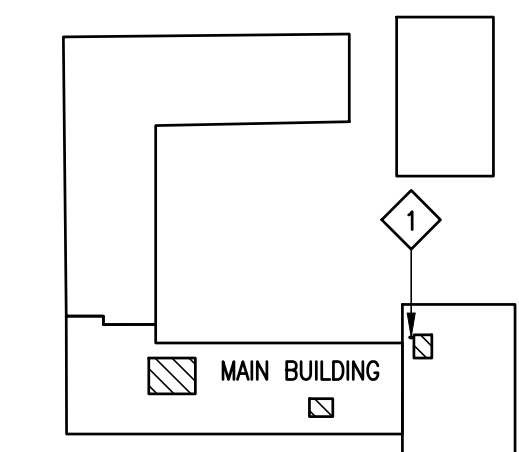
1. PROVIDE NEW CIRCULATING PUMP (CP-1), AS SCHEDULED OR AN APPROVED EQUAL. SEE ASSOCIATED DETAIL ON SHEET P7.05 ADJUST PLUMBING LINES AND FITTINGS TO THE NEW PLUMBING FIXTURE AS NECESSARY.
2. PROVIDE THERMOSTATIC MIXING VALVE (TMV-1) NAVIGATOR BRADLEY MODEL:SS9-2025 OR APPROVED EQUAL. ADJUST PLUMBING LINES AND FITTINGS TO NEW THERMOSTATIC MIXING VALVE AND SET TEMPERATURE TO 90 F . SEE SCHEDULE ON SHEET P7.05.
3. PROVIDE NEW FAUCET WITH NEW ONE INDICATED ON SCHEDULE ON SHEET P7.05. ADJUST PLUMBING LINES AND FITTINGS TO THE NEW PLUMBING FIXTURE AS NECESSARY.
4. PROVIDE NEW CHECK 1 1/2" CHECK VALVE AS PER SPECIFICATIONS AND INSTALL AT THIS APPROXIMATE LOCATION.

ELECTRICAL NEW KEYED NOTES:

1. APPROXIMATE LOCATION OF EXISTING PANELBOARD AT FIRST FLOOR SERVING ELECTRIC CIRCULATING PUMP.
2. CONNECT NEW ELECTRIC WATER HEATER. RETAIN AND REUSE EXISTING BRANCH CIRCUIT. IF EXISTING BRANCH CIRCUIT DOES NOT REACH NEW POINT OF CONNECTION PROVIDE A J-BOX AND EXTEND WIRING AS NECESSARY.



04 IDEA WESLACO
NEW ELECTRICAL AND PLUMBING PLAN (MAIN BUILDING- 2ND FLOOR)
 SCALE : 1/16" = 1'-0" NORTH



WESLACO IDEA ACADEMY
 KEYPLAN

NO. REVISION: BY:

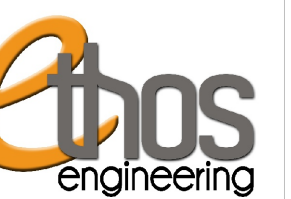
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 CSP # 27-LRPU-0424



TEXAS

IDEA PUBLIC SCHOOLS
LOWER RGV PLUMBING UPGRADES

RIO GRANDE VALLEY



1128 SOUTH COMMERCE ST.
 MARLINGEN, TX
 PHONE: 956-205-2455
 TEXAS REGISTERED
 ENGINEERING FIRM
 E-15998

DATE: APRIL 19, 2024

CHECKED BY: C.A.G.

DRAWN BY: J.V.

PROJECT NO.: 23v82

CAD FILE:

SHEET:

P7.04

PLUMBING FIXTURE SCHEDULE

Project: IDEA PS PLUMBING UPGRADES AT LOWER RGV CAMPUSES

MARK	MANUFACTURER & MODEL NUMBER	DESCRIPTION	CONNECTIONS					REMARKS
			WASTE	VENT	CW	HW	NOTES	
LF-1	SLOAN OPTIMA #EBF-615-4-BAT-BDM-CP-0.50GPM-MLM-FCT	MOUNTING TYPE: SINGLE HOLE, ADA COMPLIANT, WATER USAGE AND BATTERY STRENGTH REPORTING, WIRELESS SETTINGS ADJUSTMENT, COMMERCIAL GRADE FAUCET, POWER SUPPLY BATTERY, FLOW RATE 0.5GPM, SPRAY TIPS MULTILAMINAR, FINISH POLISHED CHROME, MIXER BELOW DECK MANUAL MIXING VALVE.	-	-	1/2"	1/2"	-	-
TMV-1	BRADLEY S59-2025 (TMV25)	LEAD-FREE BRASS DESIGN, RELIABLE LIQUID-FILLED THERMOSTAT, INTEGRAL STRAINER CHECKSTOPS ON INLETS, ADJUSTABLE SET POINT WITHIN TEMPERATURE RANGE, ACCURATE TEMPERATURE CONTROL, POSITIVE SHUTOFF OF HOT SUPPLY WHEN COLD SUPPLY IS LOST, EASY INSTALLATION AND SERVICEABILITY, DIRT AND LIME RESISTANT, FACTORY ASSEMBLED AND TESTED.	-	-	3/4"	3/4"	-	-

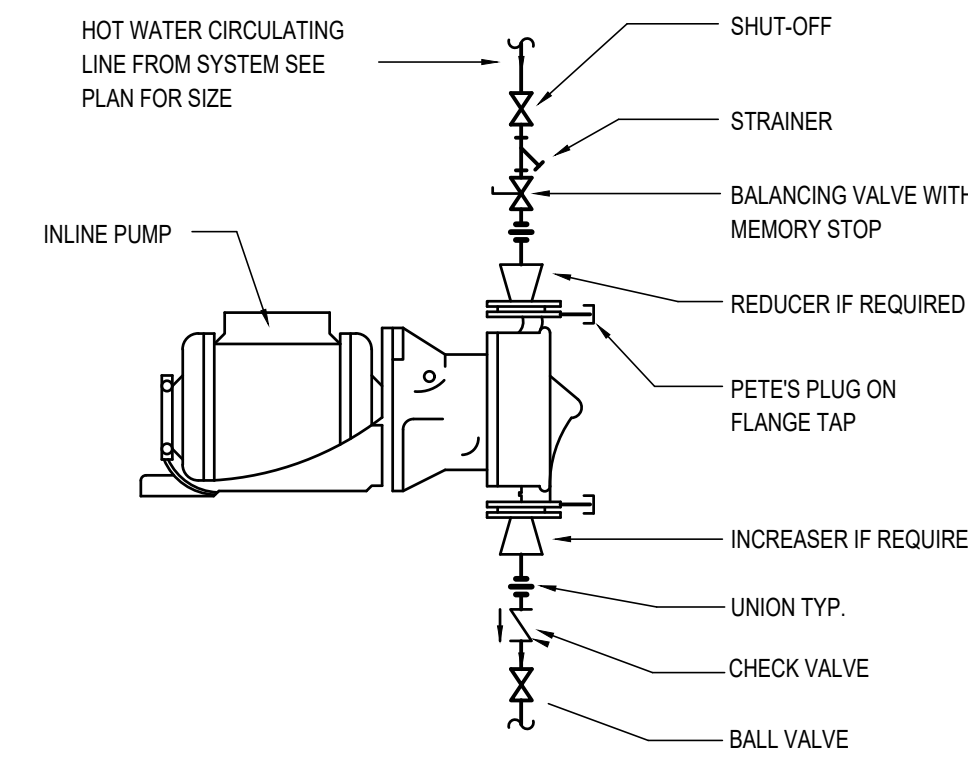
CIRCULATING PUMP SCHEDULE

Project: IDEA PS PLUMBING UPGRADES AT LOWER RGV CAMPUSES

MARK	TYPE	SERVES	LOCATION	GPM	HEAD FT WG	MIN. HP	RPM	SUCTION DIA. (IN.)	IMPELLER DIA. (IN.)	ELEC. V-PH-HZ	WEIGHT (LBS)	NOTES	MANUFACTURER AND MODEL
CP-1	CIRCULATING PUMP	EW-1	SEE PLAN	5	20	1/12	3300	1.5	3	115-1-60	13	ALL	BELL & GOSSETT PL-30B

NOTES:

1. PROVIDE BRONZE BOOSTER BODY.
2. PUMPS SHALL BE OPERATED AND CONTROLLED THRU TIME CLOCK AND THRU AQUASTAT. COORDINATE WITH REFER TO DETAIL SHEET FOR MORE INFORMATION.
- 3.



01 **CP-1 CIRCULATING PUMP SCHEMATIC & DETAIL**
SCALE: NOT TO SCALE



02 **TMV-1**
SCALE: NOT TO SCALE



03 **CP-1**
SCALE: NOT TO SCALE



04 **LF-1**
SCALE: NOT TO SCALE

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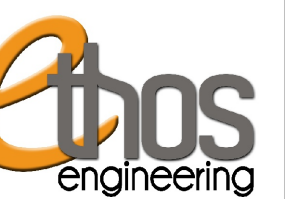
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IDEA PUBLIC SCHOOLS
LOWER RGV PLUMBING UPGRADES

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