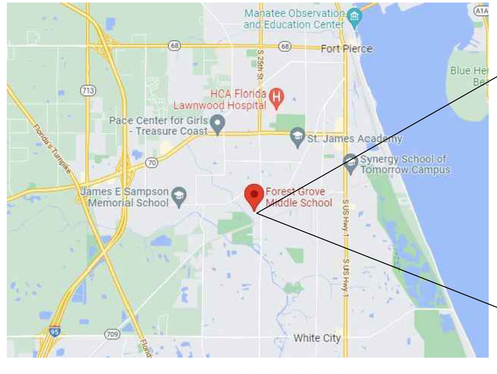
FGMS AHU RETROFIT

PROJECT LOCATION:
3201 S 25TH ST
FORT PIERCE, FL 34981

50% CD Owner Review
08/26/2022

St. Lucie
PUBLIC SCHOOLS

PROJECT LOCATION:



AREA MAP

VICINITY MAP

NOT FOR CONSTRUCTION

OCI ASSOCIATES, INC
Orlando. Fort Pierce. Fort Myers. West Palm Beach. Tampa. Washington DC. Miami. Dallas. San Francisco. Norfolk.
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www.ociassociates.com

No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
COVER SHEET

Date:	08/26/2022
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C0-1

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PRINT DATE:8/26/2022 1:35 PM SAVE DATE:8/25/2022 5:10 PM FILE LOCATION:X:\22 JOBS\22103 - SLPS FGMS AHU RETROFIT\DWGS\22103C0-1.DWG

DESIGN CRITERIA

D1 ALL WORK AND DESIGNS SHALL CONFORM TO AT LEAST THE MINIMUM STANDARDS OF THE 2020 FLORIDA BUILDING CODE (SEVENTH EDITION).

GENERAL

G1 THE GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, THE WORK PERSONS AND OTHER PEOPLE DURING CONSTRUCTION. HE SHALL SUPERVISE AND DIRECT THE WORK AND BE RESPONSIBLE FOR ALL CONSTRUCTION.

G2 NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE REDUCED IN STRENGTH.

G3 ALL SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED VIA ELECTRONIC MEDIA (i.e. PDF OR DWF FORMAT). HARD COPY SUBMITTALS WILL NOT BE ACCEPTED.

1. SUBMITTALS SHALL NOT BE SECURED IN ANY FORMAT THAT WILL PREVENT COMMENTS FROM BEING ADDED.

G4 ANY SUBMITTALS RECEIVED BY ARCH/ENG THAT HAVE NOT BEEN CHECKED BY THE GC AND HIS SUBCONTRACTOR SHALL BE RETURNED WITHOUT REVIEW.

G5 ALL SECTIONS AND DETAILS SHALL BE CONSTRUED TO BE TYPICAL OR SIMILAR UNLESS ANOTHER SECTION OR DETAIL IS NOTED.

G6 'BBM STRUCTURAL ENGINEERS' ASSUMES NO RISK OR LIABILITY FOR THE SITE SAFETY OR WELL-BEING OF ANY CONTRACTOR, SUBCONTRACTOR NOR THEIR EMPLOYEES DURING THE CONSTRUCTION OF THE PROJECT CONTAINED IN THESE DOCUMENTS.

G7 GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL SUPPLY ALL SUB-CONTRACTORS WITH THE STRUCTURAL GENERAL NOTE SHEETS AS WELL AS THE STRUCTURAL DRAWINGS.

G8 THE CONTRACTOR'S MEANS AND METHODS SHALL FULLY CONFORM TO THE REQUIREMENTS OF SEI/ASCE 37 (DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION) UNTIL ALL OF THE STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE RECEIVED THE INSPECTOR'S APPROVAL.

G9 DIMENSIONS AND ELEVATIONS SHOWN FOR EXISTING CONSTRUCTION ARE APPROXIMATE. DIMENSIONS AND ELEVATIONS SHOWN ARE NOT FIELD MEASURED. CONTRACTOR SHALL FIELD VERIFY AND/OR DETERMINE DIMENSIONS, ELEVATIONS AND GEOMETRY OF EXISTING CONSTRUCTION. REPORT DISCREPANCIES TO ENGINEER IMMEDIATELY.

SLAB ON GRADE

SOG1 COMPACT INTERIOR FILL TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557). SOIL COMPACTION SHALL BE FIELD-CONTROLLED BY A REPRESENTATIVE TECHNICIAN OF A QUALIFIED LABORATORY. EACH LAYER OF FILL SHALL NOT EXCEED 12" THICK AND SHALL BE COMPACTED PRIOR TO PLACEMENT OF NEXT LAYER.

SOG2 MAXIMUM SPACING OF CONTROL JOINTS (i.e. SAWCUT JOINT OR CONSTRUCTION JOINT) SHALL BE AS SET IN THE TABLE BELOW, OR AS NOTED ON PLANS. THE MORE STRINGENT SHALL APPLY. PATTERNS SHALL BE APPROXIMATELY SQUARE WITH A RATIO OF LONG SIDE TO SHORT SIDE NOT EXCEEDING 1.5 TO 1. SEE SLAB-ON-GRADE DETAILS FOR ADDITIONAL INFORMATION.

SLAB THICKNESS (IN)	* 3/4" OR LARGER AGGREGATE SPACING (FT)
4	12
5	13
6	14
7 AND GREATER	15

* MIX DESIGNS CONTAINING AGGREGATE LESS THAN 3/4" ARE NOT ACCEPTABLE.

SOG3 GENERAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF SJ'S AND CJ'S WITH ARCHITECTURAL FLOOR FINISHES TO ENSURE SLAB JOINTS DO NOT READ THROUGH.

CONCRETE AND REINFORCING

C1 A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY STANDARD TESTING INCLUDING SLUMP TESTS AND CYLINDER BREAKS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.

C2 CONCRETE WORK SHALL CONFORM TO ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

C3 ALL CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

LOCATION	28 DAY STRENGTH	SLUMP	COARSE AGGREGATE(S)	COMMENTS	EXPOSURE CATEGORIES & CLASSES (PER ACI 318-14 SECTION 19.3.1)			
					F	S	W	C
SLAB-ON-GRADE: FOOT TRAFFIC	3000 PSI	4" +/- 1"	1"		F0	S0	W0	C0

NOTES:
1. ALL CONC MIXES SHALL HAVE A MAXIMUM SAND TO TOTAL AGGREGATE RATIO OF 0.50.
2. READY MIX SUPPLIER SHALL DESIGN THE MIXES THAT CONTAIN MULTIPLE AGGREGATES TO BE WELL GRADATED.
3. SLABS SHALL NOT BE AIR ENTRAINED.

C4 CONCRETE MIX DESIGN SUBMITTALS:

1. EACH MIX DESIGN SHALL BE LABELED TO INDICATE THE AREA IN WHICH THE CONCRETE IS TO BE PLACED (i.E. FOUNDATIONS, SLAB-ON-GRADE, COLUMNS, ETC.). FAILURE TO DO SO WILL CAUSE DELAY AND/OR REJECTION OF SUBMITTALS.
2. PROPOSED MIX DESIGN SHALL BE IN ACCORDANCE WITH METHOD 1 OR METHOD 2 OF ACI 301. PROVIDE SUPPORTING DATA IN TABULAR FORM FOR EACH SEPARATE PROPOSED MIX.
3. SUBMIT CONCRETE MIX DESIGN FOR EACH PROPOSED CLASS OF CONCRETE.

C5 REBAR SHALL CONFORM TO ASTM A615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064 AND SHALL BE LAPPED MINIMUM ONE MESH + 2" WHERE SPLICED. ALL REINFORCING SHALL BE DOMESTICALLY PRODUCED. ALL REBAR THAT IS TO BE WELDED SHALL BE LOW ALLOY ASTM A706 GRADE 60.

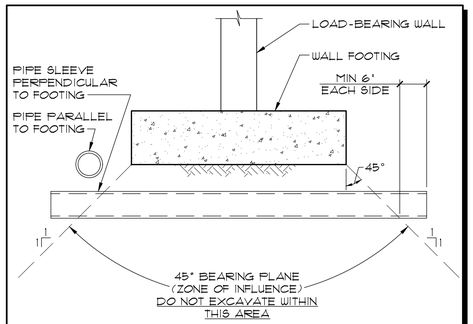
C6 SPLICES AND ANCHORAGE OF REINFORCING SHALL BE AS FOLLOWS (UNLESS OTHERWISE NOTED):

WELDED WIRE FABRIC: 8"
ALL OTHER (UNLESS SCHEDULED OTHERWISE: #6 BAR & SMALLER: 48 DIA (12" MIN)
#7 BAR & LARGER: 60 DIA

C7 COVER FOR REINFORCING SHALL BE AS FOLLOWS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THRU #18 BARS:	2"
#5 BAR, W31 OR D31 WIRE AND SMALLER:	1 1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	
SLABS:	
#11 BAR AND SMALLER:	3/4"

C8 FOOTING EXCAVATION DETAIL:



DETAIL – FOOTING EXCAVATIONS

STRUCTURAL STEEL

SS1 A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ENGINEER.

SS2 FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE WITH THE LATEST VERSION OF AISC 360-05 "STEEL CONSTRUCTION MANUAL, 13TH EDITION".

SS3 MATERIAL SPECIFICATIONS:

ALL STEEL SHALL BE PRODUCED DOMESTICALLY.

ROLLED SHAPES, PLATES AND BARS: ASTM A36.

THRU-BOLTS, NUTS AND WASHERS: ASTM F1554 (GRADE 36).

WELDED CONNECTIONS: ELECTRODES - E70XX UNO (LOW HYDROGEN). FILLET WELDS SHALL BE 3/16" UNO.

SS4 ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF "THE STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.

SS5 SUBMIT SHOP DRAWINGS INDICATING ALL SHOP AND ERECTION DETAILS INCLUDING PROFILES, SIZES, SPACING AND LOCATIONS OF STRUCTURAL MEMBERS, CONNECTION ATTACHMENTS, FASTENERS, LOADS AND TOLERANCES.

SS6 ALL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED PER ASTM A123.

WIND DESIGN CRITERIA

Ultimate Design Wind Speed	175 mph
Service Design Wind Speed	134 mph
Risk Category	III
Exposure Category	C
Enclosure Classif.	Enclosed Building
Internal pressure Coef.	+/-0.18

COMPONENT AND CLADDING ULTIMATE WIND PRESSURES

h = 15 Ft a = 6 Ft

Roof

Area	Surface Pressure (psf) 10 sf	20 sf	50 sf	100 sf	200 sf	350 sf	500 sf	1000 sf
Negative Zone 1	-103.9	-97.1	-88.0	-81.2	-74.3	-68.8	-65.2	-65.2
Negative Zone 1'	-84.1	-84.1	-84.1	-84.1	-81.4	-44.1	-40.4	-32.1
Negative Zone 2	-137.1	-128.3	-116.6	-107.8	-98.0	-91.9	-87.3	-87.3
Negative Zone 3	-186.9	-169.2	-145.9	-128.3	-110.7	-96.4	-87.3	-87.3
Positive All Zones	26.5	24.9	22.7	21.0	21.0	21.0	21.0	21.0
Overhang Zone 1(1)	-94.0	-92.3	-90.1	-88.5	-74.2	-62.6	-55.3	-55.3
Overhang Zone 2	-127.2	-115.4	-99.8	-88.1	-76.4	-66.9	-60.8	-60.8
Overhang Zone 3	-176.9	-156.3	-129.1	-108.6	-88.0	-71.4	-60.8	-60.8

Overhang soffit pressure equals adj wall pressure (which includes internal pressure of 10 psf)

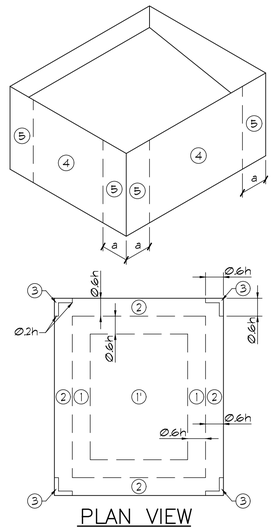
Parapet

	Area	Solid Parapet Pressure (psf) 10 sf	20 sf	50 sf	100 sf	200 sf	500 sf
CASE A:	Zone 2 :	183.8	171.9	156.2	144.3	132.4	116.6
	Zone 3 :	235.5	214.5	186.6	165.5	144.5	116.6
CASE B :	Interior zone :	-108.6	-103.1	-95.8	-90.3	-84.8	-77.6
	Corner zone :	-124.1	-115.8	-104.9	-96.7	-88.4	-77.6

Wall

Area	Surface Pressure (psf) 10 sf	100 sf	200 sf	500 sf
Negative Zone 4	-64.7	-55.9	-53.3	-49.8
Negative Zone 5	-79.6	-62.0	-56.7	-49.8
Positive Zone 4 & 5	54.7	50.9	48.3	44.8

NOTES:
1. A (Kd) OF 0.85 HAS BEEN USED IN THE DEVELOPMENT OF THESE VALUES. THE USE OF THESE VALUES SHALL ONLY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTIONS 2.3 & 2.4 OF ASCE 7-16.
2. PRESSURES AND SUCTIONS ON SOFFITS SHALL BE THE SAME AS CORRESPONDING WALL ZONES 4 & 5.
3. IF THE STRUCTURE IS AN EHPA OR IS INSURED BY FACTORY MUTUAL (FM) THE GROSS UPLIFT DESIGN PRESSURES SHOWN HEREIN SHALL BE DOUBLED FOR ROOF COVERINGS.
4. THE "ULTIMATE" WIND LOADS SHOWN IN THE COMPONENTS AND CLADDING SCHEDULE SHALL BE MULTIPLIED BY 0.6 TO REDUCE THEM DOWN TO "SERVICE" LEVEL FOR ALL TESTED ASSEMBLIES, INCLUDING BUT NOT LIMITED TO DOORS, WINDOWS AND ROOF ASSEMBLIES.
5. PARAPET WIND LOADS ARE BASED ON A "SOLID" PARAPET WITH NO INTERNAL PRESSURE. ACTUAL PARAPET CONSTRUCTION MAY DICTATE THAT INTERNAL PRESSURE BE ADDED TO THE EXTERNAL PRESSURE IN ACCORDANCE WITH ASCE 7-16 SECTION 30.8.
6. UPLIFT VALUES FOR ZONE 2 MAY BE USED IN LIEU OF ZONE 3 FOR CORNER ZONES IF PARAPET HEIGHT WITH RESPECT TO FINISHED ROOF IS GREATER THAN 3 ft.



PLAN VIEW (ROOF)

A S0-1 WIND SCHEDULE

NOT FOR CONSTRUCTION

BBM STRUCTURAL
2300 Maitland Center Parkway
Suite 201
Maitland, FL 32751
p. 407 - 645 - 3423
EB-5343
BBM PROJECT #22109

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Sheet Title:
STRUCTURAL GENERAL NOTES AND DETAILS

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	DB
Checked By:	LB
Project Number:	22103
File Date:	4/19/2019
File Name:	22109_S0-1.DWG

Drawing Number:

S0-1

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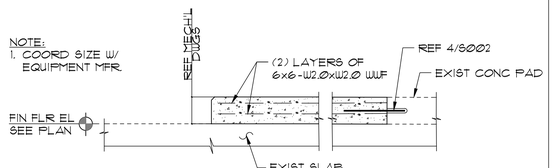
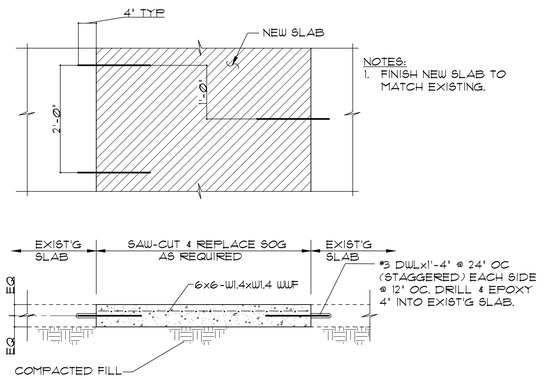
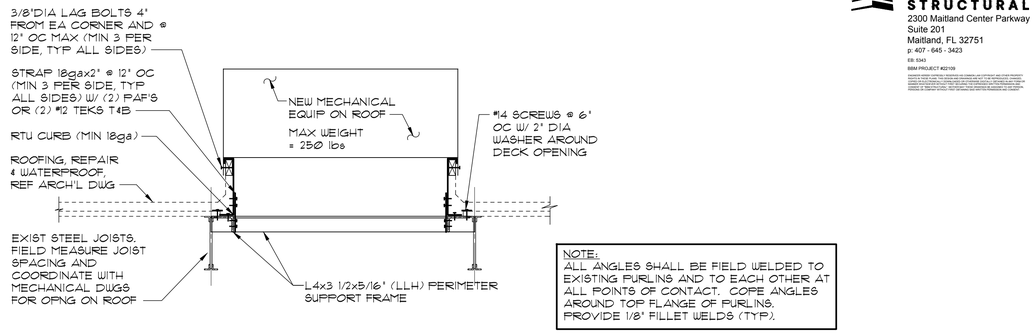


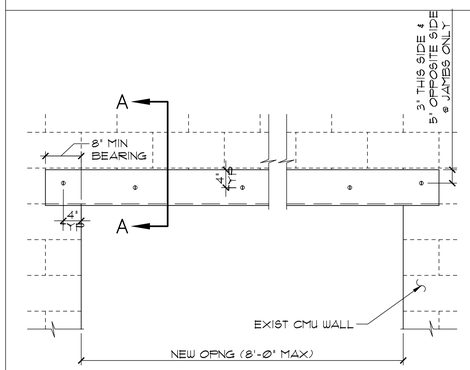
1 S0-2 HOUSE-KEEPING PAD DETAIL

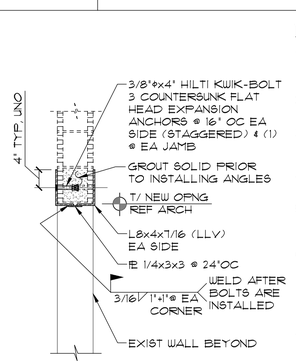


2 S0-2 SLAB REPLACEMENT DETAIL



3 S0-2 NEW MECH EQUIP ON EXISTING ROOF



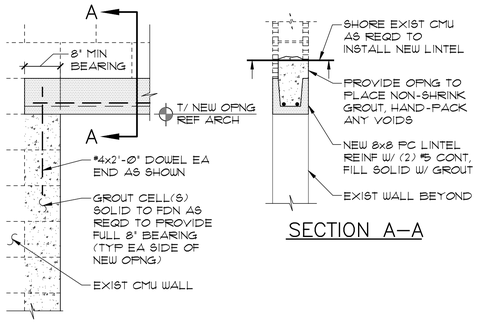


SECTION A-A

NOTES:

1. CONTRACTOR SHALL PROVIDE SHORING NECESSARY TO MAINTAIN THE STRUCTURAL INTEGRITY OF EXIST WALL.
2. REPAIR ALL FINISHES, AND MAINTAIN REQD FIRE RATING (IF APPLICABLE).
3. FILL EXIST JAMB CELLS SOLID W/ GROUT. PROVIDE CLEANOUT AT BASE OF EACH CELL TO ENSURE COMPLETE GROUT PENETRATION.
4. GROUT EXISTING COURSE OF CMU SOLID AT LINTEL OF NEW OPENING SOLID.
5. SAWCUT WALL 4" DEEP AT ONE SIDE OF WALL. INSTALL ANGLE AND BOLTS, THEN DO THE SAME TO THE OTHER SIDE OF WALL.
6. REMOVE LOOSE PIECES OF MASONRY AND MORTAR AND FILL ALL GAPS SOLID WITH NON-SHRINK STRUCTURAL PATCHING MORTAR WITH BONDING AGENT SO THAT THE LINTELS HAVE FULL BEARING AT THE JAMBS AND THE MASONRY HAS FULL BEARING ON THE LINTELS.
7. REMOVE EXISTING CMU WALL ONLY AFTER BOTH ANGLES HAVE BEEN INSTALLED.

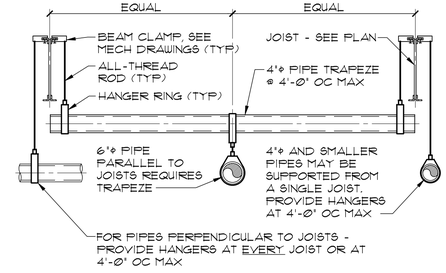
A S0-2 DETAIL - NEW OPNG IN EXIST CMU WALL - CONCEALED



MAX 8'-0" SPAN

SECTION A-A

B S0-2 DETAIL - NEW OPNG IN EXIST CMU WALL - EXPOSED



NOTES:

1. LOCATE HANGERS WITHIN 6" OF THE JOIST TOP CHORD PANEL POINTS.

C S0-2 TYPICAL PIPE HANGER DETAIL

POST-INSTALLED ANCHORS

P1A1 POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER-OF-RECORD (SEOR) PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED AND PRODUCT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE SAME STATE AS PROJECT LOCATION. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT OR BETTER PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

P1A2 THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS. ADDITIONALLY, INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION SHALL BE DONE BY CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH ACI 318-14 (SECTION 17.8.2.2). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED PRIOR TO COMMENCEMENT OF INSTALLATION.

P1A3 CONCRETE ANCHORS:

A. MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:

1. DEWALT "POWER-STUD+ SD1" (ICC-ES ESR-2818)
2. DEWALT "POWER-STUD+ SD2" (ICC-ES ESR-2502)
3. DEWALT "POWER-STUD+ SD6" (ICC-ES ESR-3471) (316 STAINLESS STEEL)
4. DEWALT "SCREW-BOLT+" (ICC-ES ESR-3889)
5. DEWALT "SNAKE+" (ICC-ES ESR-2272)
6. DEWALT "MINI-UNDERCUT+" (ICC-ES ESR-3912)

B. ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL BE INSPECTED AS FOLLOWS: AT THE ONSET OF EACH APPLICATION, A MANUFACTURER'S REPRESENTATIVE MUST BE PRESENT TO WITNESS AT LEAST FIVE COMPLETE INSTALLATIONS. INSTALLERS MUST BE TRAINED BY THE MANUFACTURER AND MANUFACTURER SHALL SUBMIT DOCUMENTATION TO THE CONTRACTOR INDICATING TRAINING HAS TAKEN PLACE. TRAINED INSTALLERS SHALL PROVIDE WRITTEN DOCUMENTATION TO THE CONTRACTOR THAT ALL ANCHORS HAVE BEEN INSTALLED PER THE MPII. CONTRACTOR SHALL SUBMIT THIS DOCUMENTATION TO THE SEOR. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING MINIMUM AGE OF 21 DAYS. HOLES SHALL BE DRY AT THE TIME OF INSTALLATION. ADHESIVES SHALL HAVE MAX IN-SERVICE SHORT-TERM TEMPERATURE OF 150°F, AND MAX IN-SERVICE LONG-TERM TEMPERATURE OF 110°F. PRIOR TO INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS RESISTING SUSTAINED TENSION LOADS, INSTALLERS ARE REQUIRED TO BE CERTIFIED IN ACCORDANCE WITH THE ACI / CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM AND MUST BE CONTINUOUSLY INSPECTED. ANCHORS SHALL ALSO HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308. PRE-APPROVED ADHESIVE ANCHORS INCLUDE THE FOLLOWING PRODUCTS:

1. DEWALT "PURE 110+" (ICC-ES ESR-3298)
2. DEWALT AC200+ (ICC-ES ESR-4027)
3. HILTI
   a. HILTI HIT-HY 200 SAFE SET SYSTEM WITH THE HILTI HIT-Z ROD PER ICC ESR-3187.
   b. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) WITH HAS-E THREADED ROD PER ICC ESR-3187.
   c. HILTI HY 200 ADHESIVE ANCHOR USING TRADITIONAL CLEANING METHOD, 2 BLOWS OF COMPRESSED AIR (90 PSI MINIMUM, OIL FREE COMPRESSOR), 2 BRUSHES WITH SAME SIZE AS HOLE WIRE BRUSH, AND 2 MORE BLOWS, (2x2x2 CLEANING METHOD) PER ICC ESR-3187.
   d. HILTI HIT-RE 500-V3 EPOXY ADHESIVE ANCHORING SYSTEM WITH HAS-E THREADED ROD PER ICC ESR-2322 FOR SLOW CURE APPLICATIONS.
4. SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
5. SIMPSON STRONG-TIE "AT-XP" (IAMPO UES ER-263)
6. SIMPSON STRONG-TIE "ET-HP" (ICC-ES ESR-3372)

P1A4 MASONRY ANCHORS:

A. ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY

1. MECHANICAL AND CONCRETE SCREW ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR AC106, RESPECTIVELY. PRE-APPROVED MECHANICAL AND CONCRETE SCREW ANCHORS INCLUDE:
   a. DEWALT "POWER-STUD+ SD1" (ICC-ES ESR-2966)
   b. DEWALT "SCREW-BOLT+" (ICC-ES ESR-4042)
   c. HILTI KWIK BOLT 3 (ICC-ES ESR-1385)
   d. SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAPMO UES ER-240)
   e. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)
2. ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
   a. DEWALT AC100+ GOLD (ICC-ES ESR-3200)
   b. HILTI HY 270 ADHESIVE ANCHOR (ICC-ES ESR-4143)
   c. SIMPSON STRONG-TIE "SET-XP" (IAPMO UES ER-265)
   d. SIMPSON STRONG-TIE "AT-XP" (IAPMO UES ER-281)
   e. SIMPSON STRONG-TIE "ET-HP" (IAPMO UES ER-241)

B. ANCHORAGE TO HOLLOW CONCRETE MASONRY / UNREINFORCED CLAY BRICK MASONRY

1. SCREW ANCHORS FOR USE IN HOLLOW CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED SCREW ANCHORS INCLUDE:
   a. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)
2. ADHESIVE ANCHORS WITH SCREEN TUBES FOR USE IN HOLLOW CONCRETE MASONRY / UNREINFORCED CLAY BRICK MASONRY SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC58 OR AC60, AS APPROPRIATE. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED ADHESIVE ANCHORS WITH SCREEN TUBES INCLUDE:
   a. DEWALT AC100+ GOLD (ICC-ES ESR-3200)-HOLLOW CONCRETE MASONRY
   b. DEWALT AC100+ GOLD (ICC-ES ESR-4105)-CLAY BRICK MASONRY
   c. HILTI HY 270 ADHESIVE ANCHOR (ICC-ES ESR-4143)
   d. SIMPSON STRONG-TIE "SET" (ICC-ES ESR-1172)
   e. SIMPSON STRONG-TIE "ACRYLIC-TIE" (ICC-ES ER-5791)

P1A5 POWDER-ACTUATED FASTENERS (PAF) SHALL BE BY SIMPSON STRONG-TIE (ICC-ES ESR-2138), HILTI (ICC-ES ESR-1663), DEWALT "POWER DRIVEN FASTENERS" (ICC-ES ESR-1995) OR ENGINEER-APPROVED EQUAL.

P1A6 GAS-ACTUATED FASTENERS (GAF) SHALL BE BY SIMPSON STRONG-TIE (ICC-ES ESR-2811), HILTI (ICC-ES ESR-1752), DEWALT "TRAK-IT C5 FASTENERS" (ICC-ES ESR-3275) OR ENGINEER-APPROVED EQUAL.

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No.	Date	Description

Client: St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

Sheet Title: STRUCTURAL GENERAL NOTES AND DETAILS

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	DB
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Project Number:	22103
File Date:	4/19/2019
File Name:	22109_S0-2.DWG

Drawing Number: S0-2

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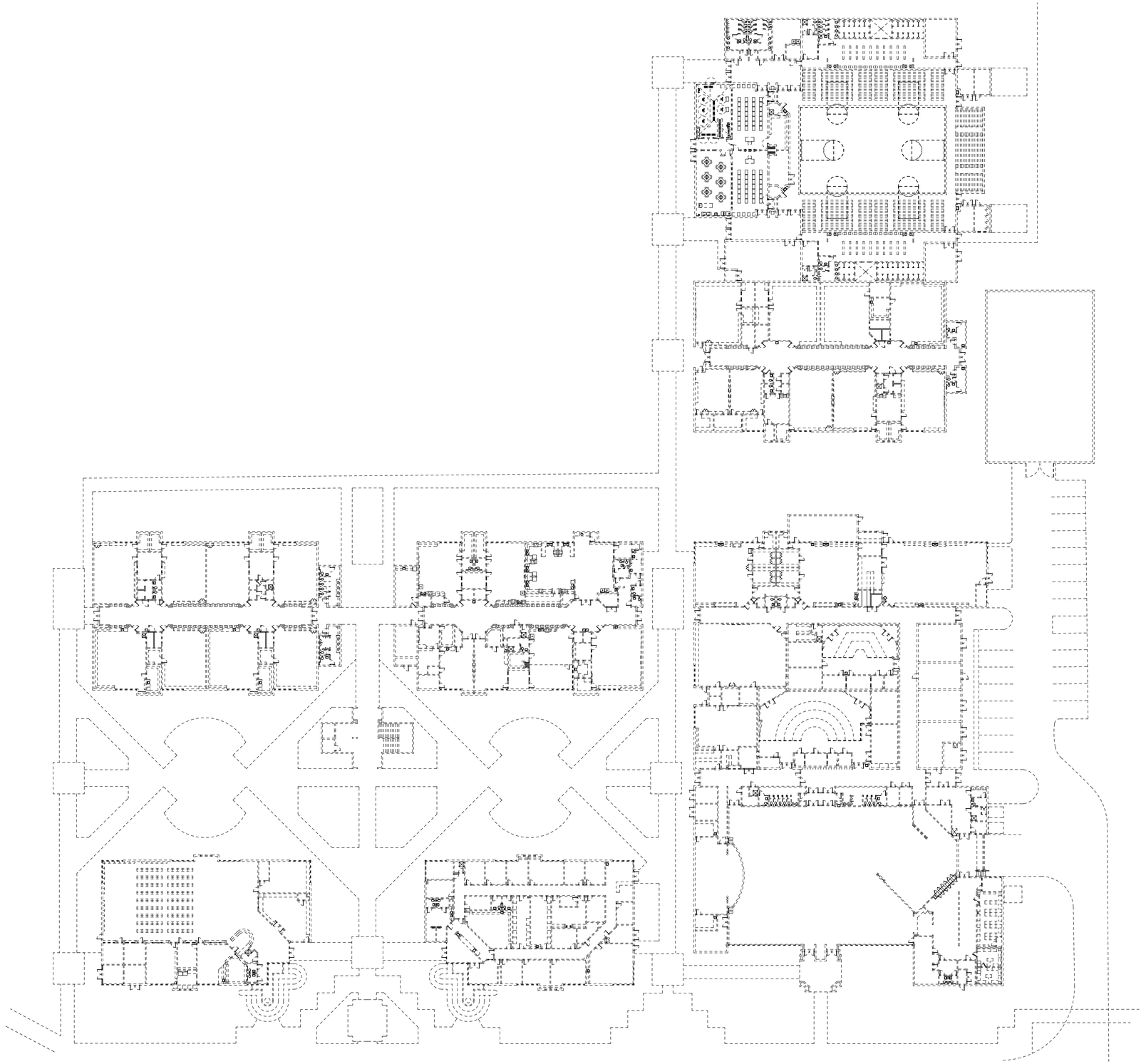

OVERALL STRUCTURAL PLAN

SCALE: 1"-30'-0"

PLAN NOTES:

1. FIELD VERIFY EXISTING CONDITIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY EXISTING FIELD CONDITIONS NOT SHOWN ON THESE DRAWINGS THAT MAY NEED STRUCTURAL REINFORCING FOR ENGINEER REVIEW.
2. SEE SHEET S0-1 & S0-2 FOR STRUCTURAL GENERAL NOTES.

PLAN KEY NOTES:

1. HANG CHILLED WATER PIPES FROM STRUCTURE PER C/S002.
2. NEW ROOF TOP EQUIPMENT ON EXISTING ROOF. REF 3/S0-2 FOR ADDITIONAL FRAMING REQUIRED FOR SUPPORT. MAKE OPENING IN ROOF DECK BETWEEN STEEL JOISTS.
3. SAW CUT SLAB AS REQUIRED FOR NEW PIPE INSTALLATION, REF 2/S0-2.
4. NEW OPENING IN EXISTING MASONRY WALL, REF A/S0-2 & B/S0-2.

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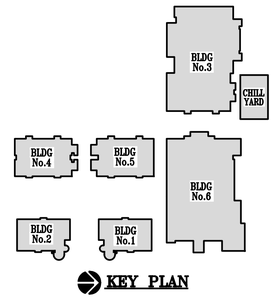

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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
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FORT PIERCE, FL 34981

Seal:

Sheet Title:
OVERALL STRUCTURAL PLAN

Date:	08/26/2022
Scale:	AS NOTED
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File Name:	22109_P2-S1-0.DWG

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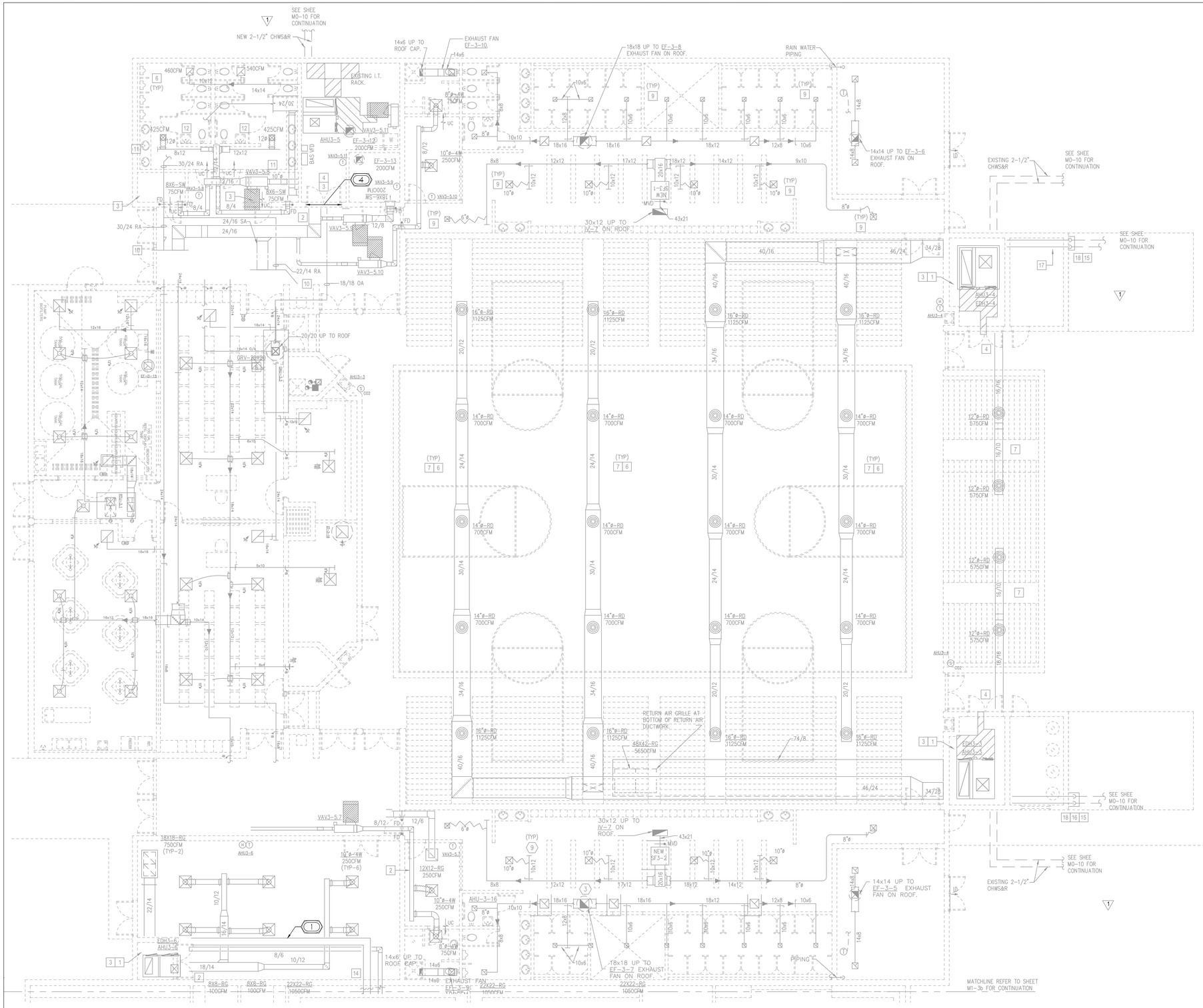
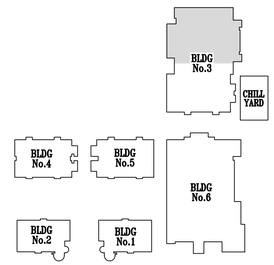


PHASE 2 - BUILDING 3 PARTIAL STRUCTURAL PLAN

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



PLAN NOTES:

1. REFERENCE SHEET S100 FOR PLAN NOTES.

PLAN KEY NOTES:

(1) REFERENCE SHEET S100 FOR PLAN KEY NOTES.

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Sheet Title:
PHASE 2 - BUILDING 3 PARTIAL STRUCTURAL PLAN

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	DB
Checked By:	LB
Project Number:	22103
File Date:	4/19/2019
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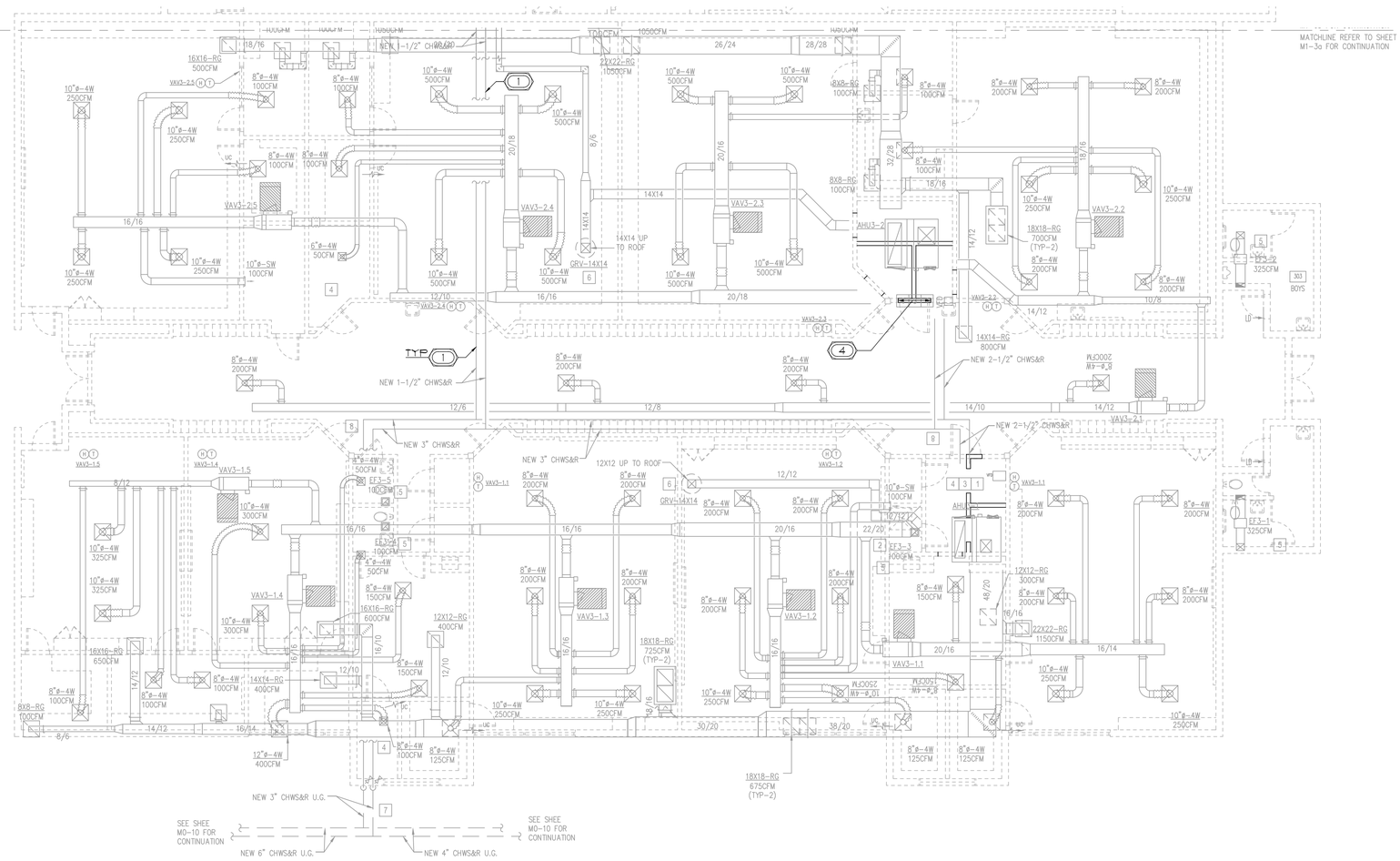

PHASE 2 - BUILDING 3 PARTIAL STRUCTURAL PLAN

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

PLAN NOTES:

1. REFERENCE SHEET S100 FOR PLAN NOTES.

PLAN KEY NOTES:

(1) REFERENCE SHEET S100 FOR PLAN KEY NOTES.

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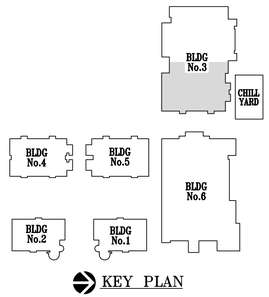

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Project Title:

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Seal:

Sheet Title:
PHASE 2 - BUILDING 3 PARTIAL STRUCTURAL PLAN

Date:	08/26/2022
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Drawn By:	DB
Checked By:	LB
Project Number:	22103
File Date:	4/19/2019
File Name:	22109_P2-S1-3B.DWG

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PLAN KEY NOTES:

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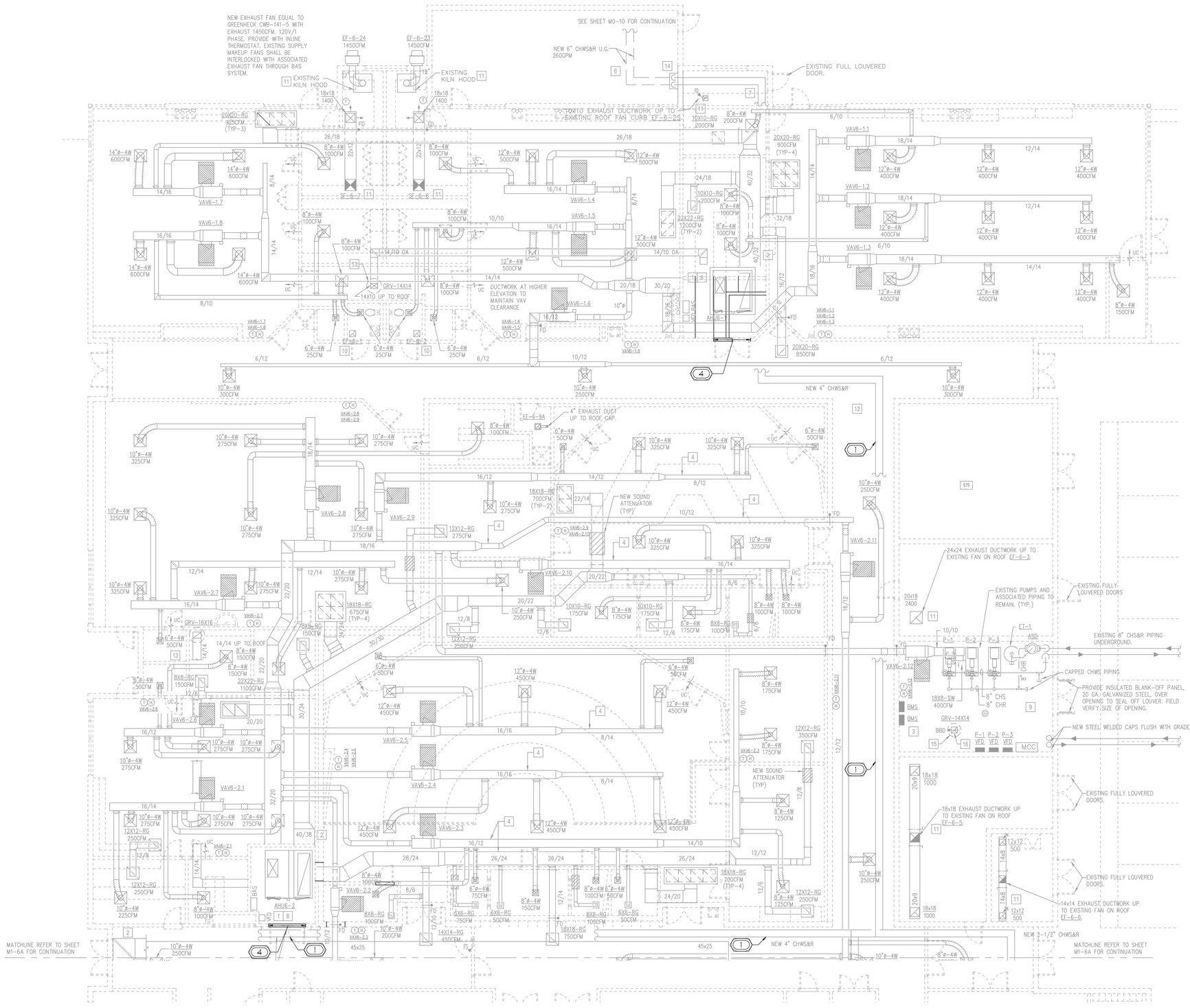
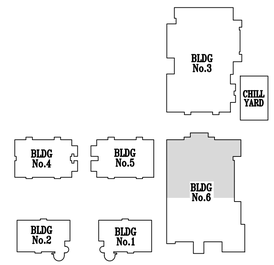


PHASE 2 - BUILDING 6 PARTIAL STRUCTURAL PLAN

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

NOT FOR CONSTRUCTION



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PHASE 2 - BUILDING 6 PARTIAL STRUCTURAL PLAN

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	DB
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Project Number:	22103
File Date:	4/19/2019
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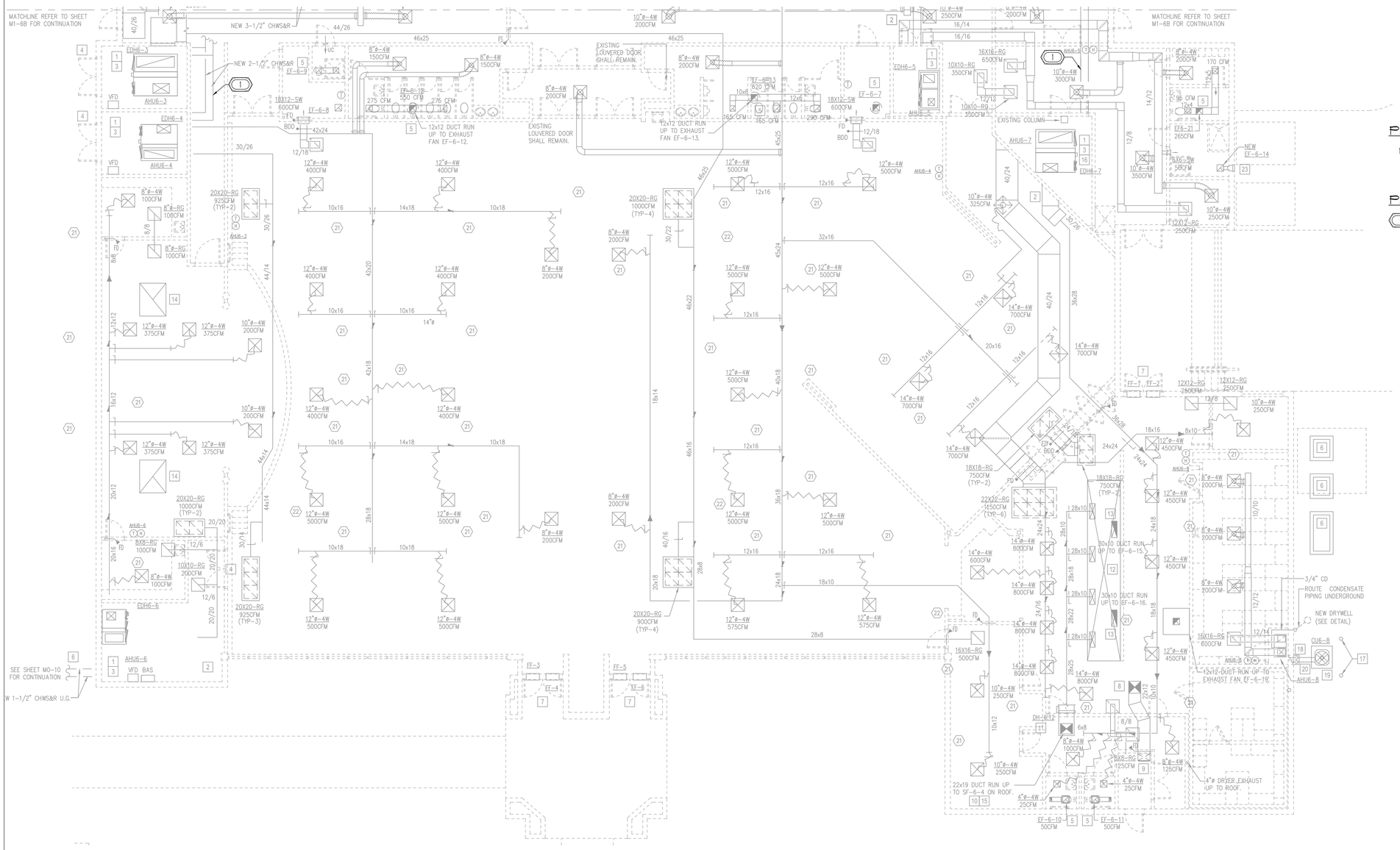

PHASE 2 - BUILDING 6 PARTIAL STRUCTURAL PLAN

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

PLAN NOTES:

1. REFERENCE SHEET S100 FOR PLAN NOTES.

PLAN KEY NOTES:

(1) REFERENCE SHEET S100 FOR PLAN KEY NOTES.

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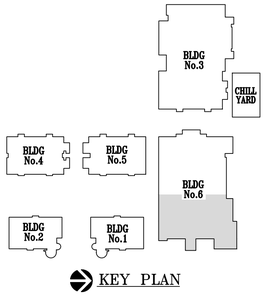

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Seal:

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PHASE 2 - BUILDING 6 PARTIAL STRUCTURAL PLAN

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File Name:	22109_P2-S1-6B.DWG

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GENERAL NOTES

1. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO INSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICTS WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
2. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING AND THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ARCHITECT.
3. ADVISE ARCHITECT OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC.. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATIONS BY WRITTEN ADDENDUM.
4. DEVIATIONS FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
5. OBSERVE ALL CURRENT APPLICABLE CURRENT CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY,COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC..)
6. INSTALL EQUIPMENT, MATERIALS, ETC.. IN STRICT ACCORD WITH MANUFACTURERS' RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INTENT IN CONTRACT DOCUMENTS, ADVISE THE ARCHITECT PRIOR TO INSTALLATION FOR CLARIFICATIONS.
7. ALL SYSTEMS, EQUIPMENT, AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ARCHITECT.
8. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ARCHITECT, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.
9. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK WITH ARCHITECT.
10. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVED AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ARCHITECT IN WRITING.
11. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRIC LINES. VERIFY THE LOCATION, SIZE TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
12. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, SUPPORT FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT AND CONSENT OF THE OTHER TRADE, IN WRITING.
13. WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED.
14. WHERE PENETRATING NEW ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING INSTALLER/ARCHITECT.
15. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, ETC..)
16. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ARCHITECT OR NOT SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
17. INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR, UTILITY COMPANY, ARCHITECT, AND OWNER AS NECESSARY, WITH AT LEAST ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN PARTIES MENTIONED, TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.
18. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLING ANY SUCH WORK.
19. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE, WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONED SUPPLIED TO THE CONTRACTOR.
20. WHERE PIPING PENETRATES FOOTING, REFER TO STRUCTURAL SHEET, FOR SLEEVING METHOD.
21. IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTING CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS' CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.
22. ALL WORK SHOWN ON DRAWINGS (EQUIPMENT, DUCTWORK, PIPING FIXTURES, RACEWAYS, WIRING, ETC.) ARE NEW, TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
23. ALL INTERIOR FLOOR DRAINS, FLOOR SINKS AND TRENCH DRAINS SHALL BE TRAP PRIMED TO THE NEAREST FAUCET OR TO AN ELECTRICAL TRAP SEAL PRIMER WITH AIR GAP (MIFAB MI-100, 200 OR 300), CONTRACTOR TO COORDINATE ELECTRICAL REQUIREMENTS. TRAP GUARDS ARE ACCEPTABLE IF ALLOWED BY OWNER AND LOCAL JURISDICTION, CONTRACTOR TO VERIFY.
24. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE. COORDINATION WITH ALL TRADES WILL BE REQUIRED.
25. REFER TO DOMESTIC WATER RISER DIAGRAM FOR LOCATIONS OF ALL VALVES AND ACCESSORIES TO BE INSTALLED.
26. WATER HAMMER ARRESTORS, TRAP PRIMERS, VALVES, AIR ADMITTANCE VALVES, ETC. SHALL BE ACCESSIBLE. PROVIDE ACCESS PANELS WHERE ANY ITEM IS INSTALLED IN AN INACCESSIBLE SPACE.
27. INSULATE HOT AND COLD WATER IN ACCORDANCE WITH FLORIDA ENERGY EFFICIENCY CODE. HOT WATER RETURN LINE INSULATION SHALL BE NO LESS THAN 1" IN THICKNESS.
28. METALLIC PIPING SHALL BE INSTALLED IN FIRE RATED WALL. (TYPICAL)
29. SEAL ALL PIPING PENETRATIONS WITH NON-SHRINK MASTIC.
30. WHEN NONMETALLIC PIPE IS USED IN COMBINATION SYSTEMS UTILIZING STEEL PIPING INTERNALLY COATED WITH CORROSION INHIBITORS AND NONMETALLIC PIPING, THE STEEL PIPE COATING SHALL BE INVESTIGATED FOR COMPATIBILITY WITH THE NONMETALLIC PIPING BY A TESTING LABORATORY.
31. WHEN FABRICATING STEEL PIPE FOR A COMBINATION (CPVC-STEEL) SYSTEM, THE CUTTING OIL AND LUBRICANTS CAN CAUSE PERFORMANCE DEGRADATION OF THE CPVC PIPING. CUTTING OILS AND LUBRICANTS FOUND TO BE COMPATIBLE ARE AVAILABLE AND SHALL BE USED.
32. WHEN NONMETALLIC PIPE IS USED IN COMBINATION SYSTEMS UTILIZING STEEL PIPE THAT IS NOT INTERNALLY COATED WITH CHEMICAL CORROSION INHIBITORS, NO ADDITIONAL EVALUATIONS SHALL BE REQUIRED.
33. WHEN NONMETALLIC PIPE IS USED IN COMBINATION SYSTEMS UTILIZING STEEL PIPE, CUTTING OILS AND LUBRICANTS USED FOR FABRICATION OF THE STEEL PIPING SHALL BE COMPATIBLE WITH THE NONMETALLIC PIPE MATERIALS.
34. FIRE-STOPPING MATERIALS INTENDED FOR USE ON NONMETALLIC PIPING PENETRATIONS SHALL BE INVESTIGATED FOR COMPATIBILITY WITH THE NONMETALLIC PIPE MATERIALS.
35. ALL CPVC PIPING, FITTINGS AND SOLVENTS SHALL BE FROM A SINGLE MANUFACTURERS. MIXING OF MANUFACTURERS IS NOT PERMITTED.
36. CPVC PIPING INSTALLATION SHALL BE IN CONFORMANCE WITH MANUFACTURES SPECIFICATIONS AND GUIDELINES.
37. DOMESTIC WATER PIPING WITHIN 5 FEET OF THE BUILDING SEWER/DRAIN PIPING IS TO BE A MINIMUM OF 12 INCHES ABOVE THE HIGHEST POINT OF THE BUILDING SEWER/DRAIN PIPING AND THE PIPE MATERIALS MUST CONFORM TO SECTION 703.1 OF THE FLORIDA BUILDING CODE 2020 – PLUMBING.
38. PLUMBING CONTRACTOR SHALL COORDINATE UNDERGROUND PIPING WITH BUILDING FOUNDATION.
39. WATER HAMMER TO BE INSTALLED IN ALL QUICK OPENING FIXTURES.

ABBREVIATIONS

APPROX	APPROXIMATELY
BFF	BELOW FINISHED FLOOR
BWV	BACK WATER VALVE
CFH	CUBIC FEET PER HOUR
CO	CLEAN-OUT
COND	CONDENSATE OR CONDENSER
CW	DOMESTIC COLD WATER
DF	DRINKING FOUNTAIN
DN	DOWN
ECO	EXTERIOR CLEANOUT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EL	ELEVATION
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
G	GAS (LP)
GPM	GALLONS PER MINUTE
GR	GREASE WASTE LINE
GWH	GAS WATER HEATER
HB	HOSE BIBB
HD	HUB DRAIN
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
IWH	INSTANTANEOUS WATER HEATER
L	LAVATORY
LP	LIQUID PROPANE GAS
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MS	MOP SINK
RCP	RECIRCULATING PUMP (HWR)
RM	ROOM
S	SINK
SH	SHOWER
ST	STORAGE TANK (HOT WATER)
TYP	TYPICAL
TV	TEMPERING VALVE (THERMOSTATIC)
VTR	VENT THRU ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WMB	WASHER WALL BOX
BSI	BEVERAGE SYSTEM INSTALLER

GENERAL LEGEND

- DIRECTION OF FLOW IN PIPE
- PIPE UP
- PIPE DOWN
- BALL VALVE
- CHECK VALVE, HORIZONTAL SWING
- GATE VALVE
- BALANCING VALVE
- GAS COCK, GAS STOP
- PRV — PRESSURE REDUCING VALVE
- VALVE IN SERVICE BOX WITH CAST IRON COVER
- SOLENOID VALVE, 24V
- FCO — FLOOR CLEANOUT
- ECO — EXTERIOR CLEANOUT
- EXTERIOR 2-WAY CLEANOUT
- WCO — WALL CLEANOUT
- CO — HORIZONTAL CLEANOUT
- CAPPED LINE
- HOT WATER RECIRCULATOR PUMP
- HOSE BIBB
- FLOOR DRAIN
- HUB DRAIN
- WATER HAMMER
- CW — DOMESTIC COLD WATER PIPING
- 115° — DOMESTIC HOT WATER PIPING (110°)
- 140° — DOMESTIC HOT WATER PIPING (140°)
- 115° — DOMESTIC HOT WATER RETURN PIPING
- SAN — SOIL, WASTE, OR SANITARY SEWER PIPING
- VENT PIPING
- POINT OF CONNECTION TO EXISTING
- 1 / P6.01 — DETAIL OR RISER DESIGNATION; SHEET WHERE DETAIL OR RISER APPEAR

GENERAL NOTES - PLUMBING

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

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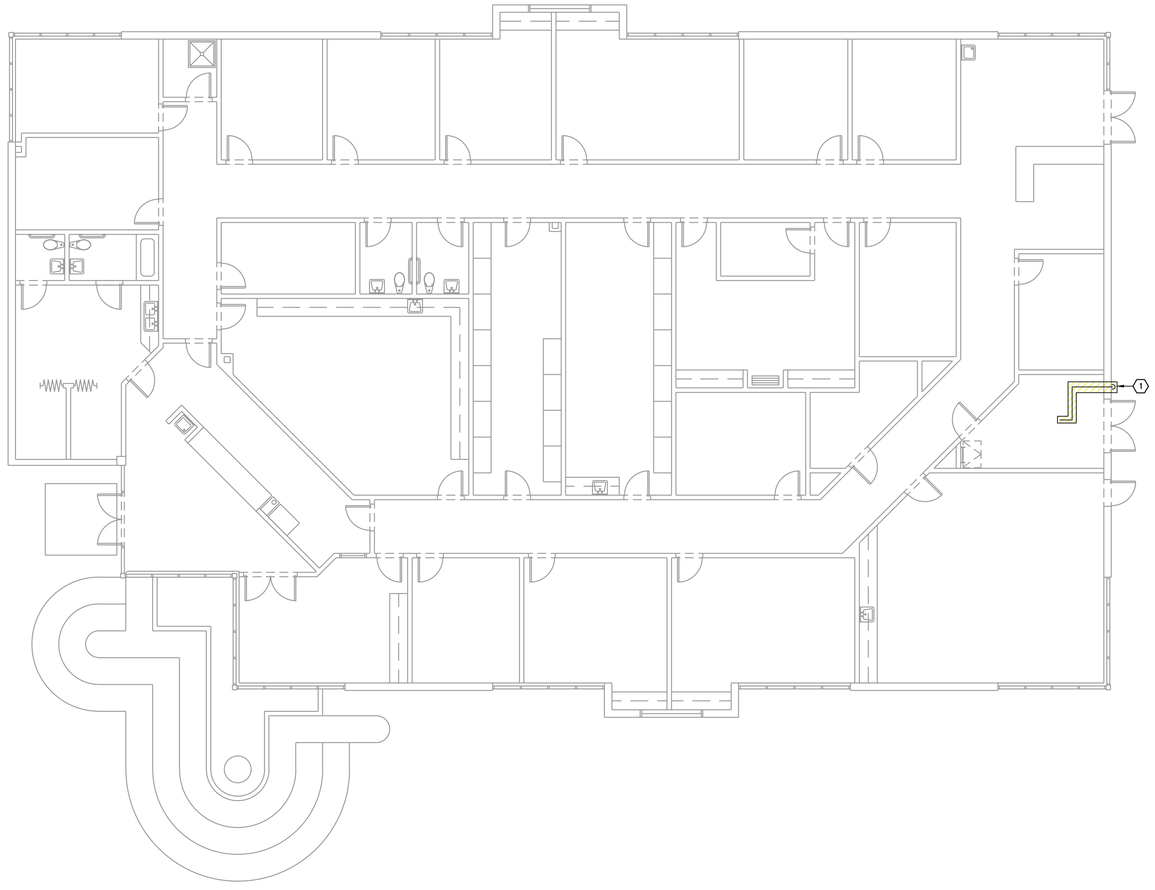

PHASE 1 - BUILDING 1 FLOOR PLAN - DEMO - PLUMBING

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

PLUMBING DEMO KEYNOTES (X):

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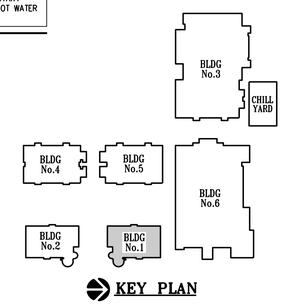

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Project Title:

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FORT PIERCE, FL 34981

Seal:

JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
PHASE 1 - BUILDING 1 FLOOR PLAN - DEMO - PLUMBING

Date:	08/26/2022
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Drawn By:	DZ
Checked By:	JLS
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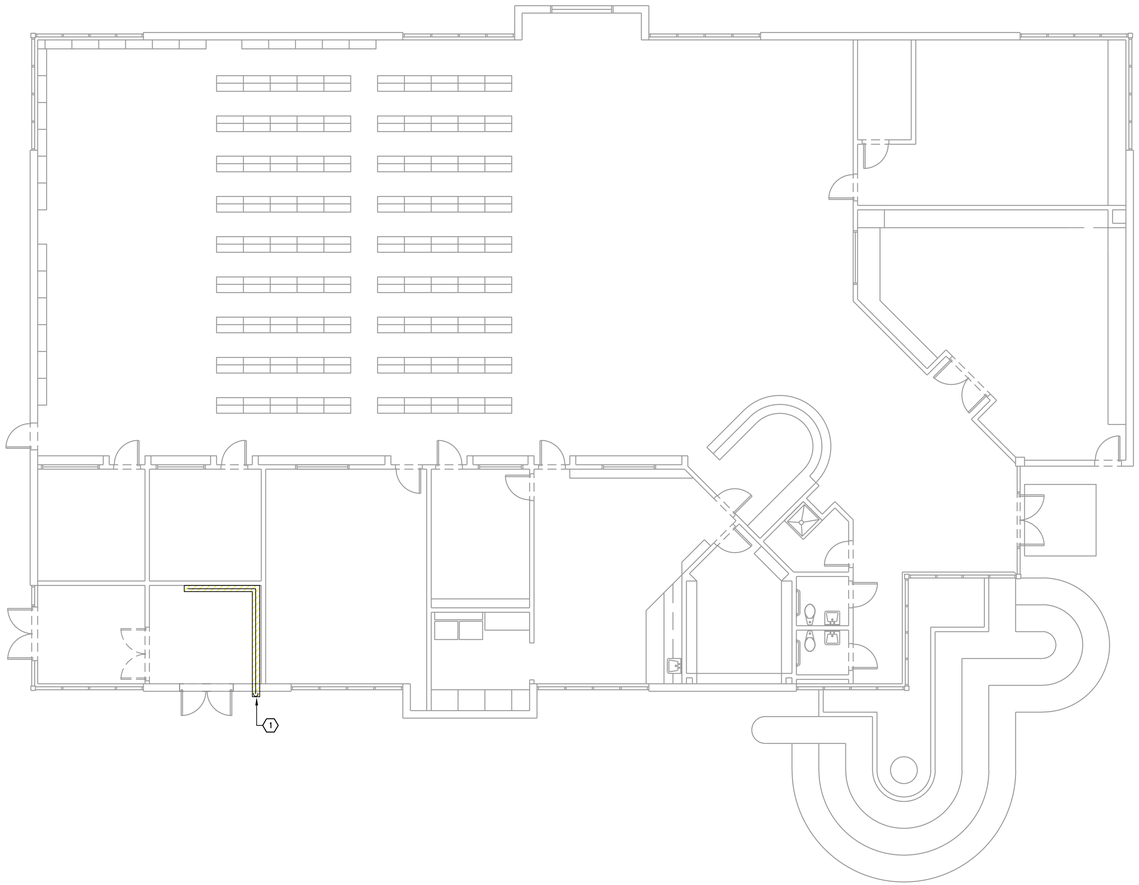

PHASE 1 - BUILDING 2 FLOOR PLAN - DEMO - PLUMBING

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

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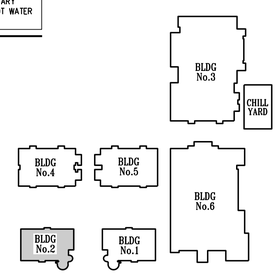

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FL. REG. NO.: PE57743

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PHASE 1 - BUILDING 2 FLOOR PLAN - DEMO - PLUMBING

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Drawn By:	DZ
Checked By:	JLS
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PLUMBING KEYNOTES [X]:

1. NEW 3" CONDENSATE PIPING, ROUTE AND TIE TO EXISTING DRYWELL. CONTRACTOR SHALL FIELD VERIFY EXISTING.
2. NEW 3/4" COLD WATER PIPING, ROUTE AND TIE TO EXISTING COLD WATER PIPING OF EQUAL OR GREATER PIPE SIZE. CONTRACTOR SHALL FIELD VERIFY EXISTING.

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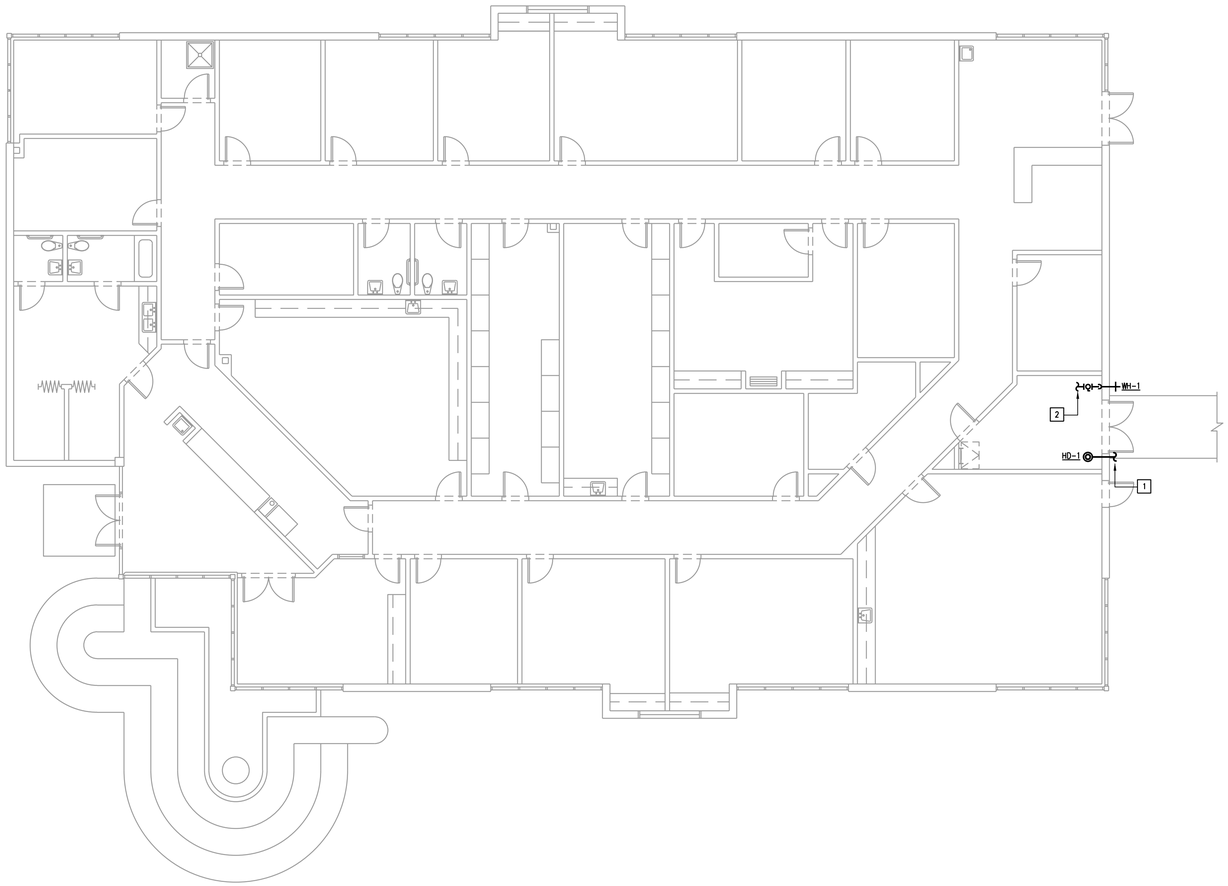

PHASE 1 - BUILDING 1 FLOOR PLAN - NEW - PLUMBING

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

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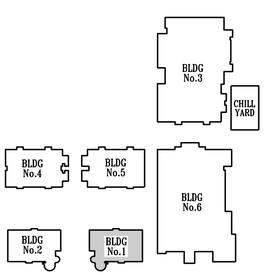

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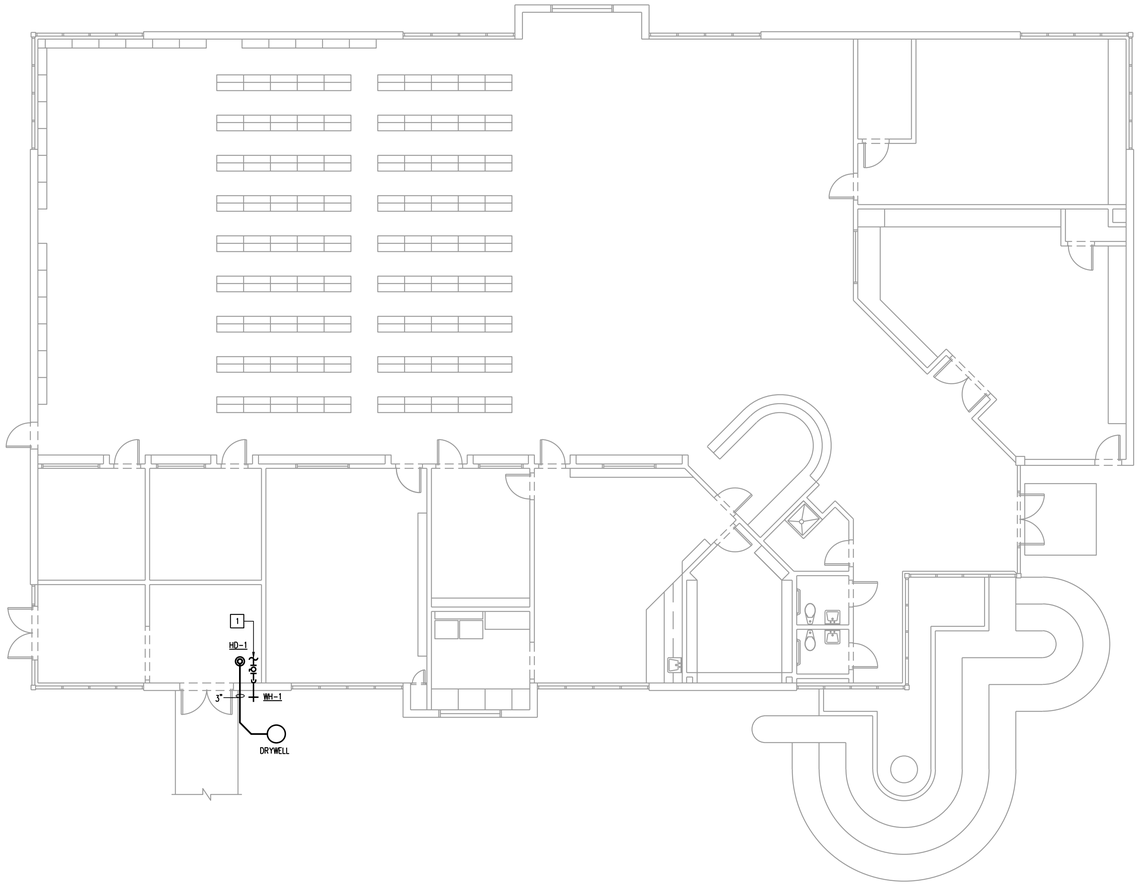

PHASE 1 - BUILDING 2 FLOOR PLAN - NEW - PLUMBING

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

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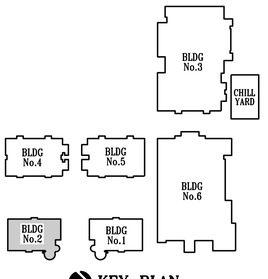

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PHASE 1 - BUILDING 2
FLOOR PLAN - NEW -
PLUMBING

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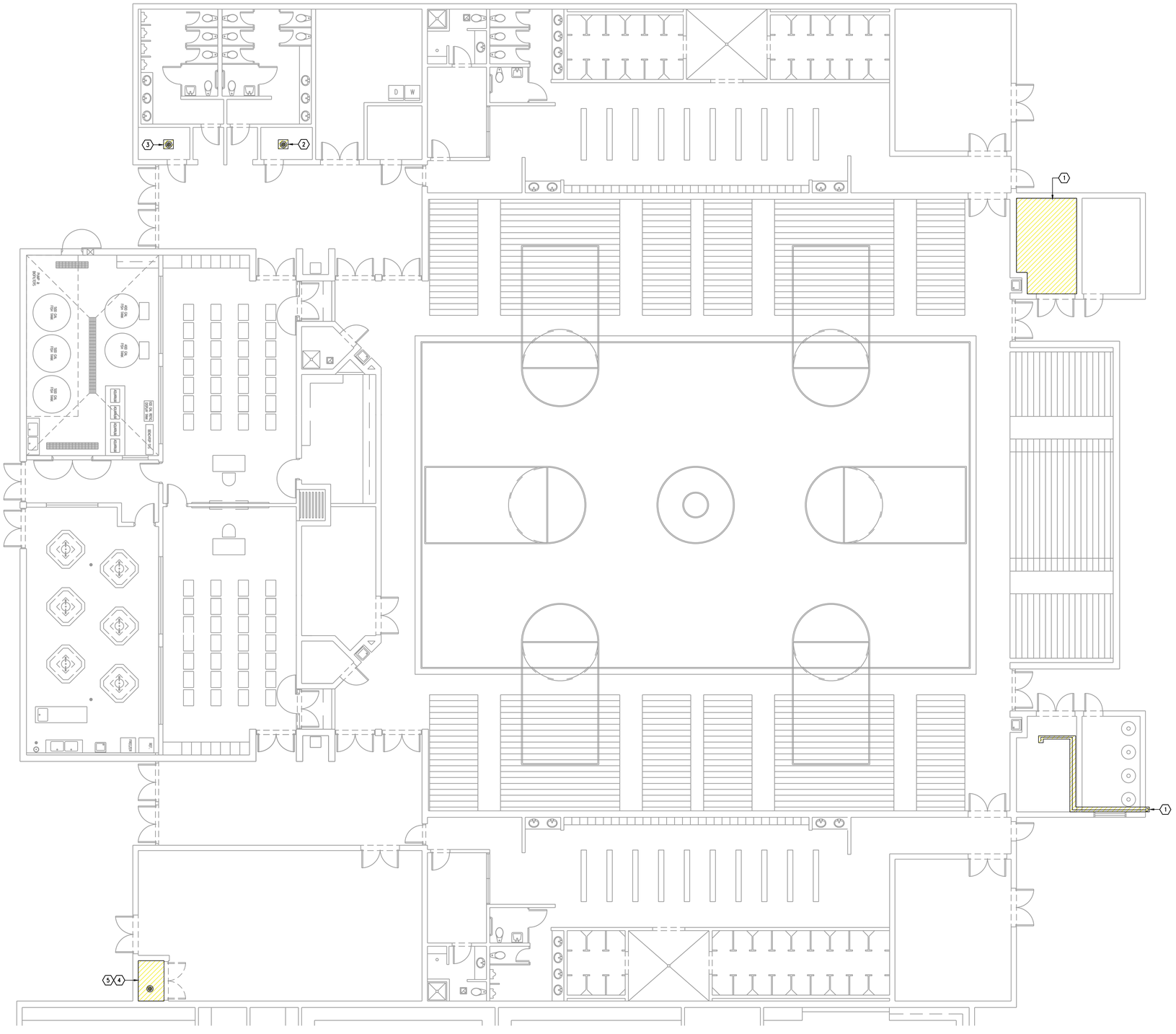

PHASE 2 - BUILDING 3 PARTIAL PLAN - DEMO - PLUMBING

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

KEY PLAN

PLUMBING DEMO KEYNOTES (X):

1. EXISTING CONDENSATE PIPING WITHIN HATCHED AREA SHALL BE REMOVED BACK TO OUTSIDE OF BUILDING. CONTRACTOR SHALL FIELD VERIFY EXISTING.
2. EXISTING FLOOR DRAIN AND ASSOCIATED MATERIALS WITHIN HATCHED AREA SHALL BE REMOVED AND CONVERTED INTO A FLOOR CLEAN OUT. CONTRACTOR SHALL ENSURE CLEAN OUT IS ACCESSIBLE. CONTRACTOR SHALL FIELD VERIFY EXISTING.
3. EXISTING FLOOR DRAIN AND ASSOCIATED MATERIALS WITHIN HATCHED AREA SHALL BE REMOVED AND PREPPED FOR CONNECTION TO NEW HUB DRAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING.
4. EXISTING FLOOR DRAIN AND ASSOCIATED MATERIALS WITHIN HATCHED AREA SHALL BE REMOVED. CONTRACTOR SHALL FIELD VERIFY EXISTING.
5. EXISTING CONDENSATE PIPING WITHIN HATCHED SHALL BE PREPPED FOR RECONNECTION TO NEW LOCATION OF HUB DRAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING.

GENERAL DEMO NOTES:

1. THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN EQUIPMENT ROUTING AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER MAY BE NECESSARY AND IT IS INTENDED THAT SUCH DEVIATIONS SHALL BE CONSIDERED AS PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL SITE UTILITIES, ETC., PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
2. ALL DEVICES AND EQUIPMENT NOT SHOWN AND IN AREAS OUTSIDE OF REMODELING SHALL REMAIN ACTIVE UNLESS OTHERWISE NOTED. INSTALL AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING DEVICES AND EQUIPMENT THAT REMAIN.
3. ALL PIPING SHALL BE CONCEALED, CONCEAL ALL PIPING ABOVE CEILING OR IN NEW WALLS. ALL PIPING SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE BUILDING WALLS/CEILINGS, ETC.
4. ALL EXISTING PLUMBING APPURTENANCES ARE NOT SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO BID. WORK TO BE PERFORMED DURING "NEW-STANDARD" WORKING HOURS, (NON-DISRUPTIVE TO OWNER/TENANT) IN STRICT COMPLIANCE WITH THE ESTABLISHED WORK SCHEDULE BEING SET FORTH BY OWNER/TENANT. COORDINATE ALL WORK WITH GENERAL CONTRACTOR. THIS CONTRACTOR SHALL FURNISH ADEQUATE FORCES, CONSTRUCTION PLANT, AND EQUIPMENT, AND SHALL WORK SUCH HOURS, INCLUDING NIGHT SHIFTS, OVERTIME OPERATIONS, SUNDAY, AND HOLIDAYS IN ACCORDANCE WITH THE OWNERS OPERATIONAL SCHEDULE. IF THE CONTRACTOR FALLS BEHIND PROGRESS REQUIRED IN THE OPERATIONAL SCHEDULE, THE CONTRACTOR SHALL TAKE SUCH STEPS AS MAY BE NECESSARY TO IMPROVE HIS PROGRESS, AND THE OWNER MAY REQUIRE HIM TO INCREASE THE NUMBER OF SHIFTS AND/OR OVERTIME OPERATIONS, DAY OF WORK AND/OR THE AMOUNT OF CONSTRUCTION PLANT, AT NO ADDITIONAL COST TO THE OWNER UNDER THIS CONTRACT.
5. ALL CONCRETE, WALL PATCHING, CEILING REPAIR, AND OTHER GENERAL WORK REQUIRED FOR INSTALLING PLUMBING SYSTEMS AND TO REPAIR TO "LIKE NEW CONDITION" TO BE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR. (COORDINATE WITH GENERAL CONTRACTOR).
6. EXISTING DRY WELL SHALL BE INSPECTED FOR EXISTING CONDITION. DRY WELL SHALL BE REPAIRED OR REPLACED IF FOUND IN POOR OR NON-WORKING CONDITION.

LOCATION OF EXISTING SANITARY PIPING, VENT PIPING AND DOMESTIC COLD AND HOT WATER PIPING WERE DETERMINED VIA SITE VISITS AND EXISTING AS-BUILT DRAWING INFORMATION. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO FIELD VERIFY ALL EXISTING SANITARY PIPING, VENT PIPING AND DOMESTIC COLD AND HOT WATER PIPING PRIOR TO DEMOLITION/RENOVATION.

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600 South Orlando Ave, Maitland, FL 32751 | p. 407-332-5110
www.ociassociates.com

No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
PHASE 2 - BUILDING 3
PARTIAL PLAN - DEMO -
PLUMBING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	DZ
Checked By:	JLS
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-PD1-3A.DWG

Drawing Number:

P2-PD1-3a

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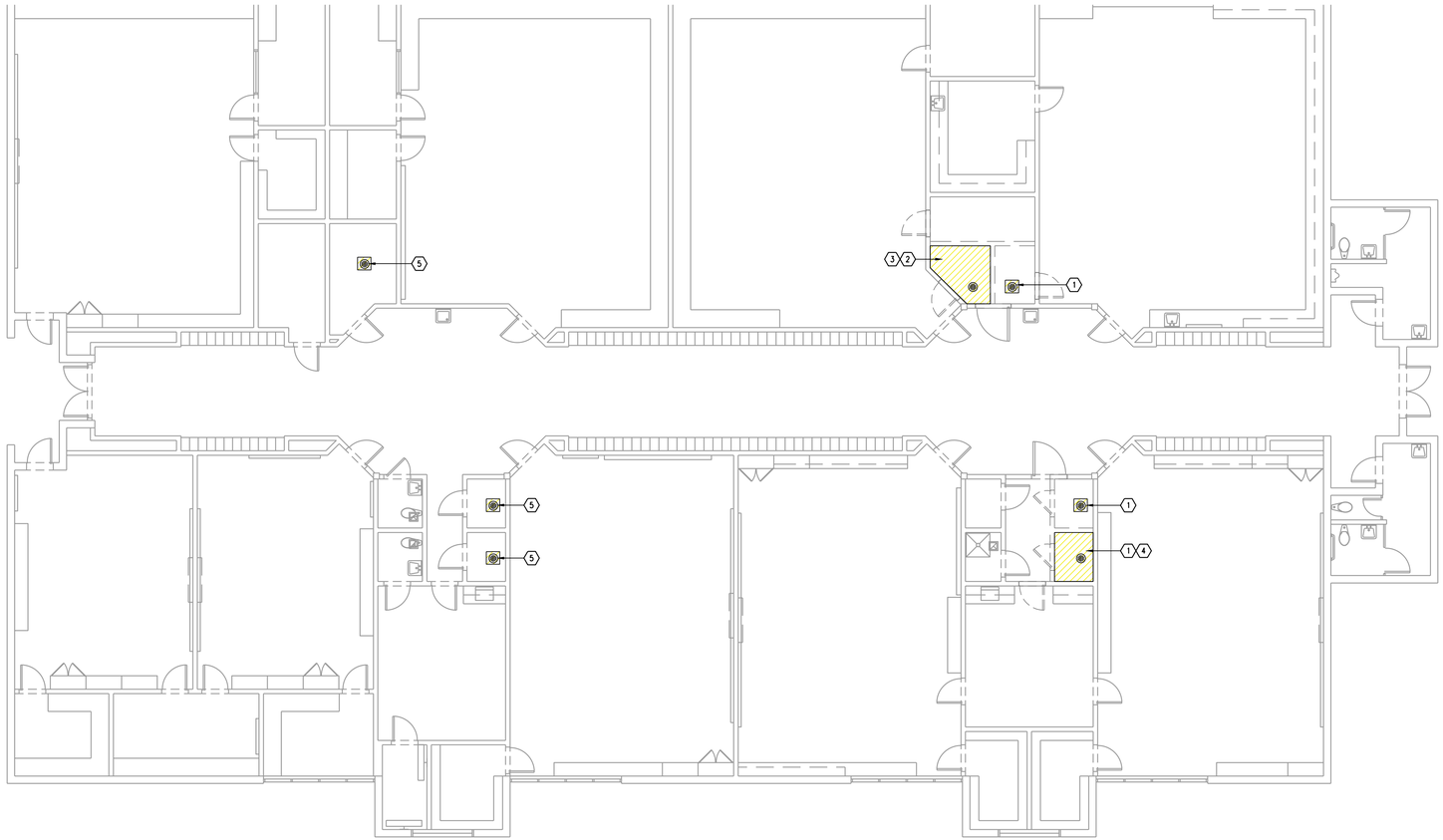

PHASE 2 - BUILDING 3 PARTIAL PLAN - DEMO - PLUMBING

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

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4. EXISTING CONDENSATE PIPING WITHIN HATCHED AREA SHALL REMOVED BACK TO BRANCH. EXISTING CONDENSATE PIPING SERVING ADJACENT HUB DRAIN SHALL REMAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING.
5. EXISTING FLOOR DRAIN AND ASSOCIATED MATERIALS WITHIN HATCHED AREA SHALL BE REMOVED AND CONVERTED INTO A FLOOR CLEAN OUT. CONTRACTOR SHALL ENSURE CLEAN OUT IS ACCESSIBLE. CONTRACTOR SHALL FIELD VERIFY EXISTING.

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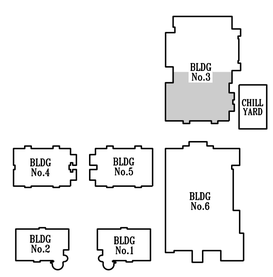

KEY PLAN

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No.	Date	Description

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St. Lucie PUBLIC SCHOOLS

Project Title:

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3201 S 25TH ST

FORT PIERCE, FL 34981

Seal:

JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:

PHASE 2 - BUILDING 3 PARTIAL PLAN - DEMO - PLUMBING

Date:	08/26/2022
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Drawn By:	DZ
Checked By:	JLS
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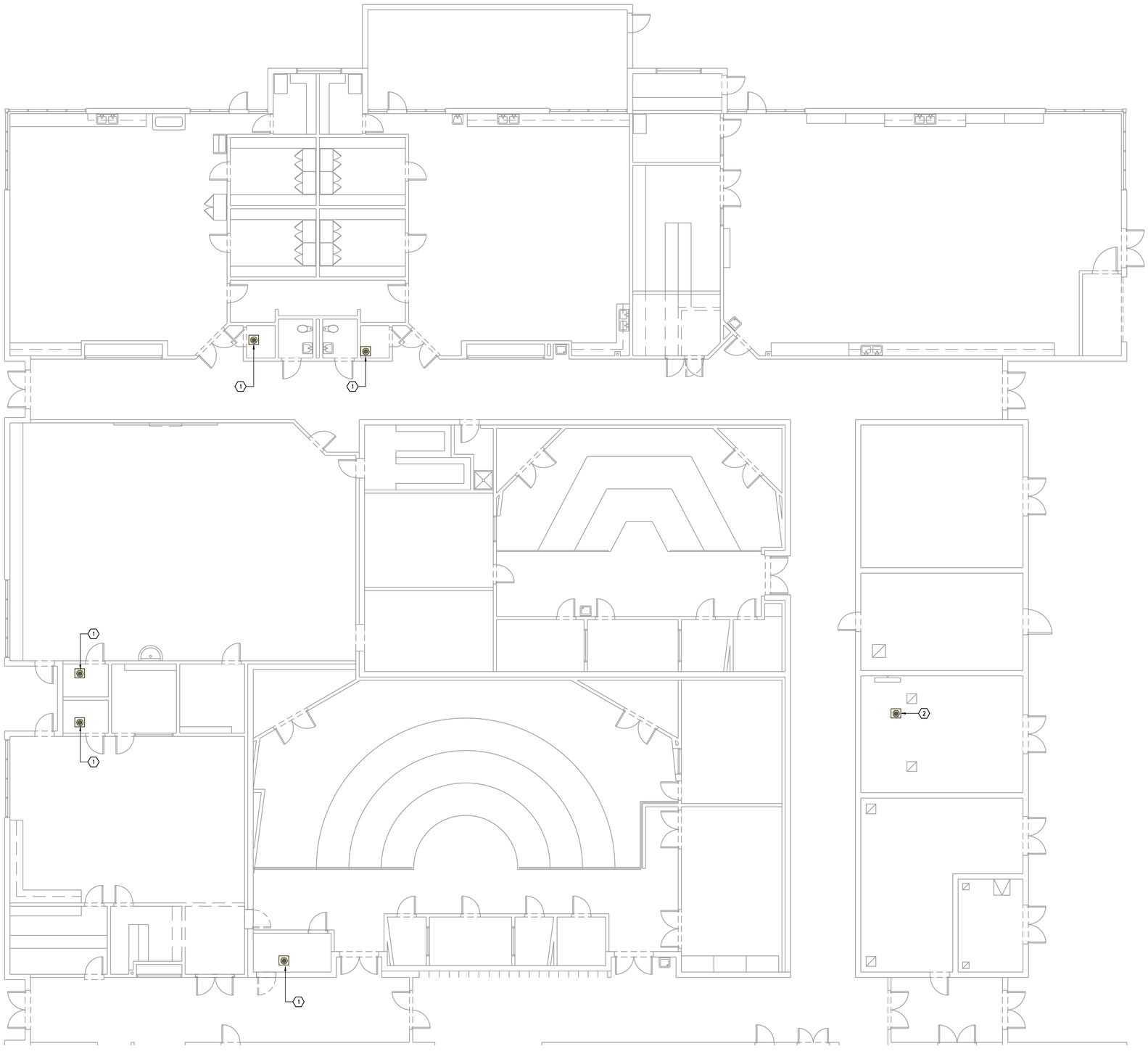

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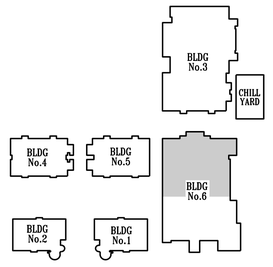
PHASE 2 - BUILDING 6 PARTIAL PLAN - DEMO - PLUMBING

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



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Seal:

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600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
PHASE 2 - BUILDING 6
PARTIAL PLAN - DEMO -
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Date:	08/26/2022
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Drawn By:	DZ
Checked By:	JLS
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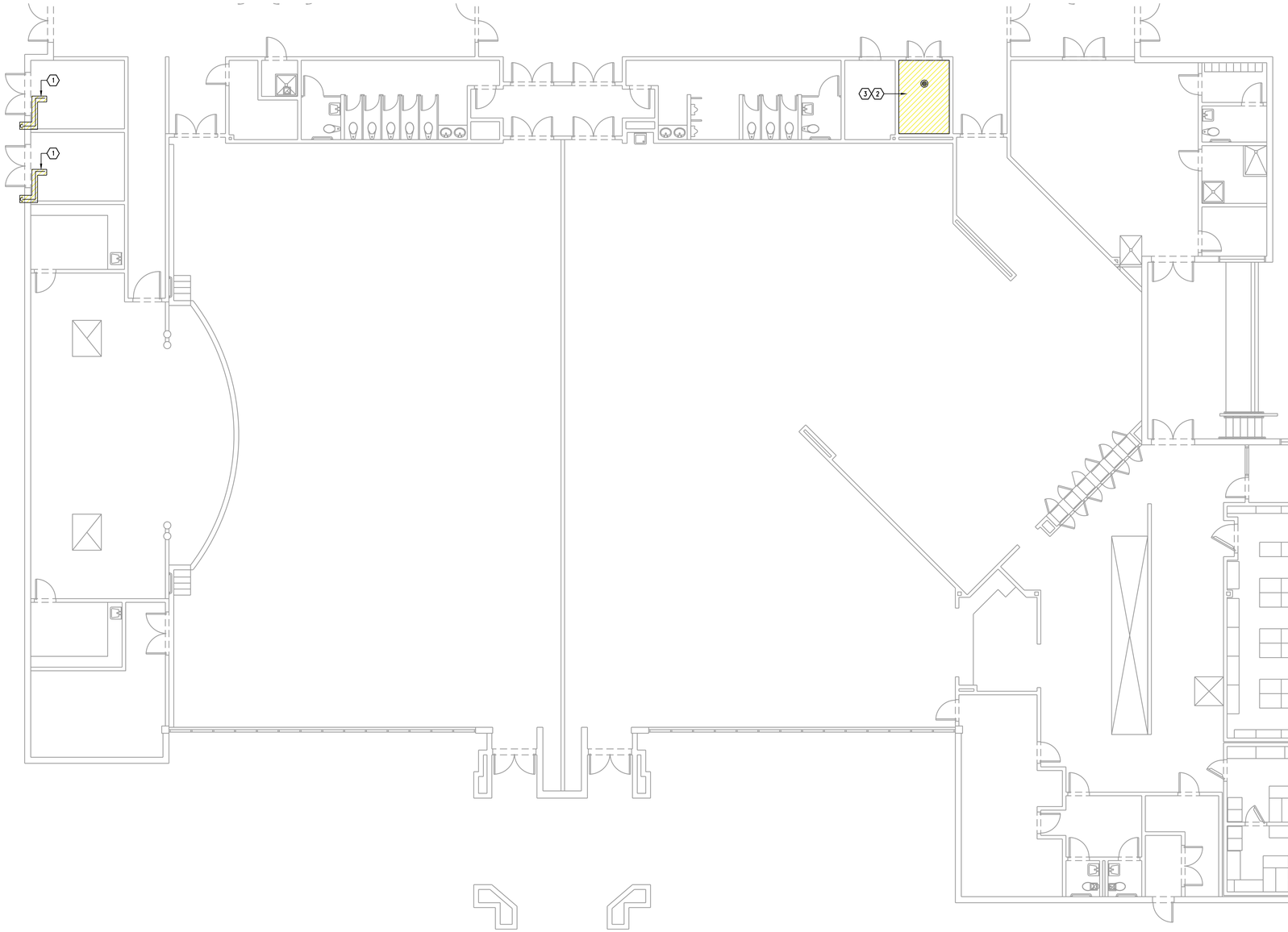

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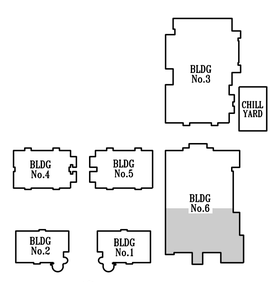

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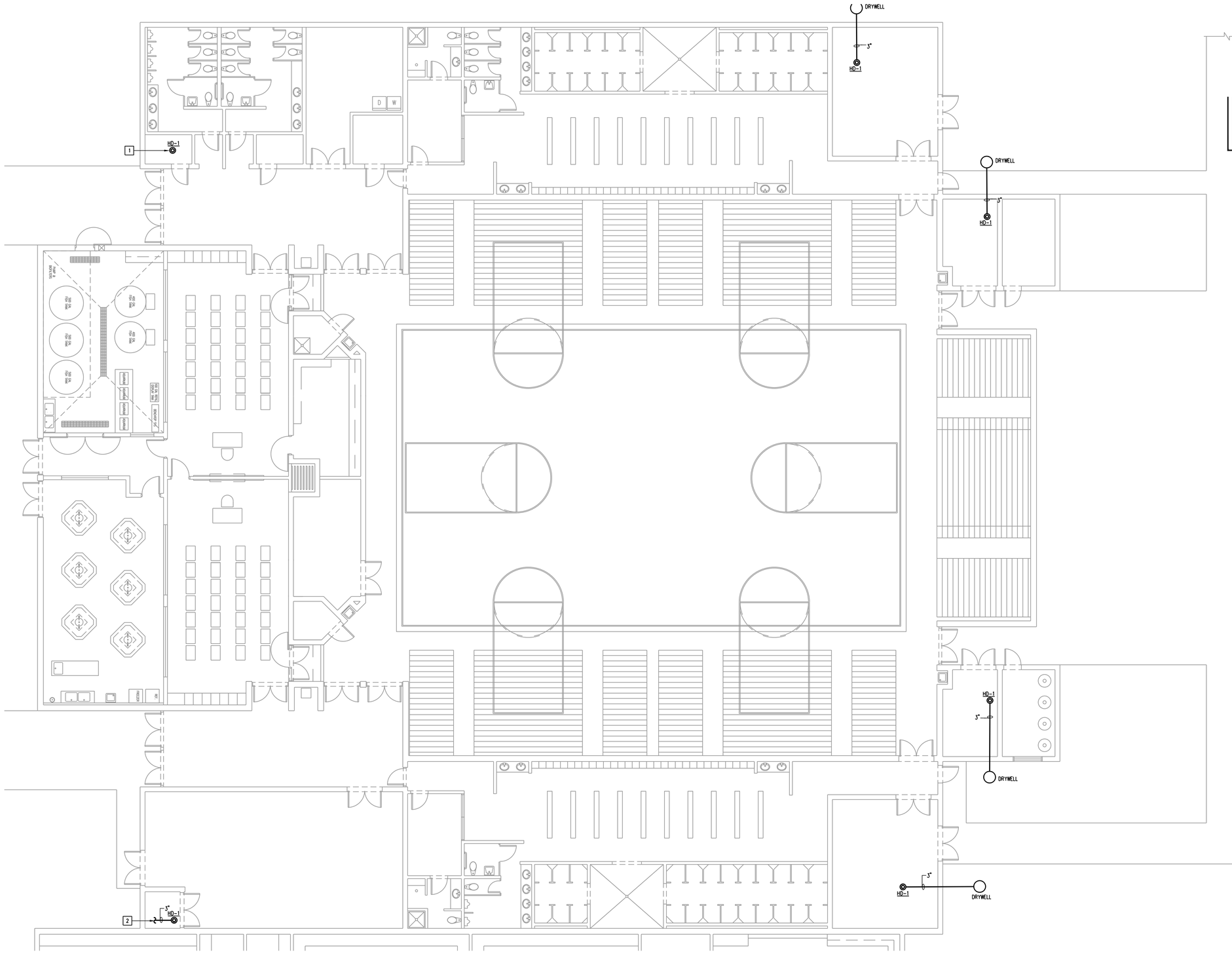

PLUMBING KEYNOTES [X]:

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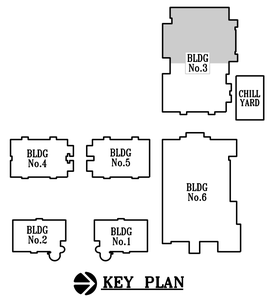
NOT FOR CONSTRUCTION

PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - PLUMBING

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



KEY PLAN

OCI ASSOCIATES, INC
Orlando. Fort Pierce. Fort Myers. West Palm Beach. Tampa. Washington DC. Miami. Dallas. San Francisco. Norfolk.
600 South Orlando Ave, Maitland, FL 32751 | p. 407-332-5110
www.ociassociates.com

No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - PLUMBING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	DZ
Checked By:	JLS
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-P1-3A.DWG

Drawing Number:

P2-P1-3a

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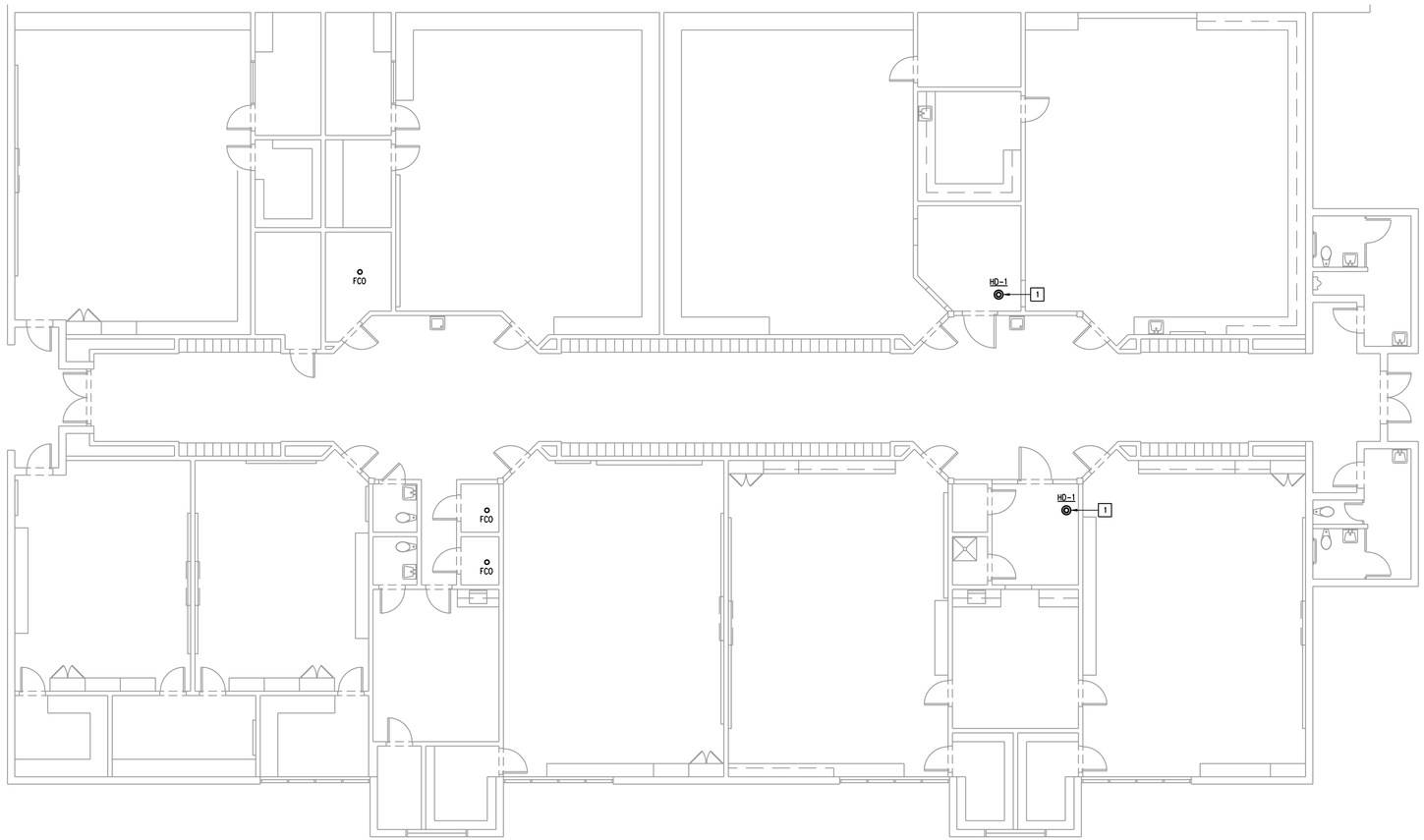

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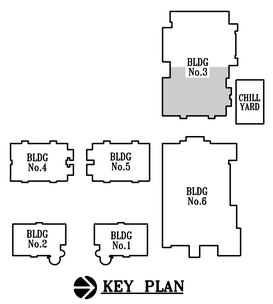
SCALE: 1/8" = 1'-0"



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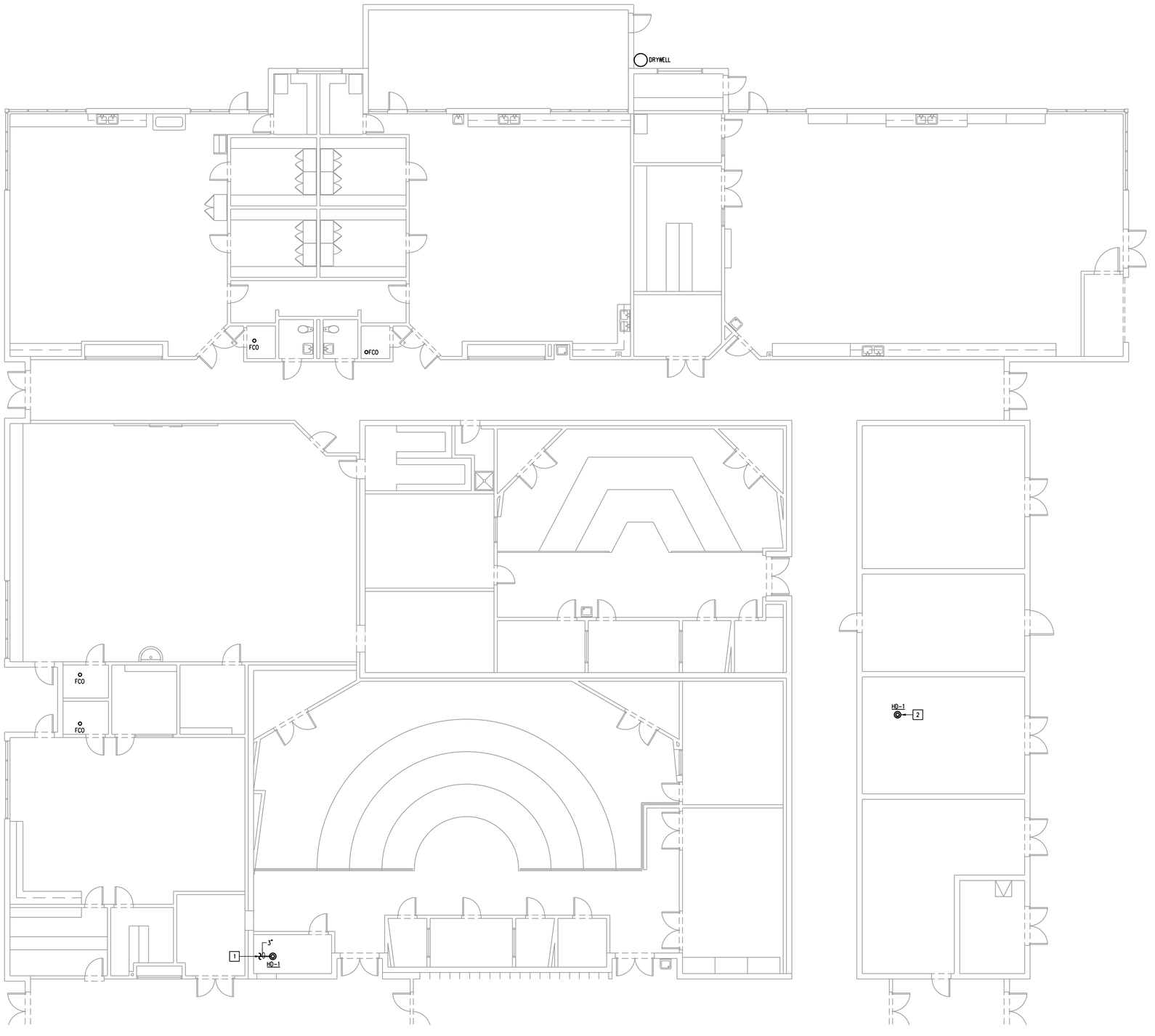

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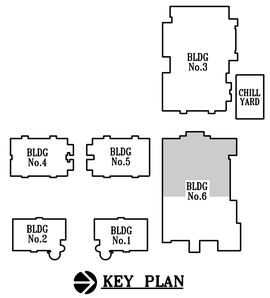
PHASE 2 - BUILDING 6 PARTIAL PLAN - NEW - PLUMBING

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

NOT FOR CONSTRUCTION



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Sheet Title:
PHASE 2 - BUILDING 6
PARTIAL PLAN - NEW -
PLUMBING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	DZ
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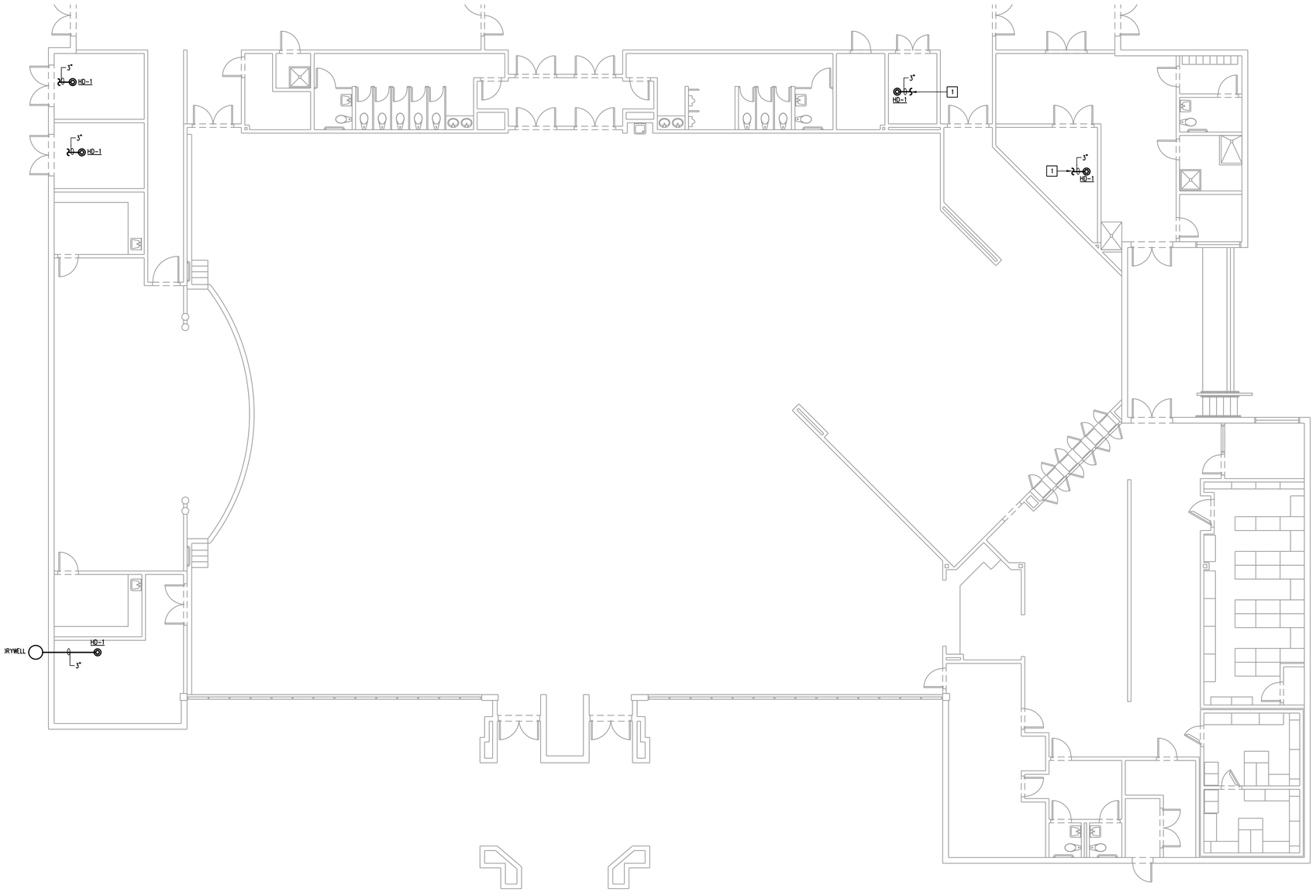

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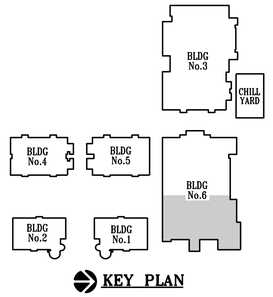

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PHASE 2 - BUILDING 6 PARTIAL PLAN - NEW - PLUMBING

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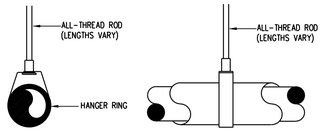
PLUMBING EQUIPMENT SCHEDULE

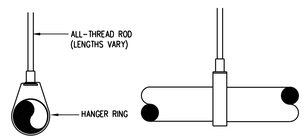
MARK	FIXTURE DESCRIPTION	MANUFACTURES MODEL	ACCESSORIES/ NOTES
HD-1	HUB DRAIN	WATTS FD-100-A-6	PROVIDE WITH WIFAB WI-GARD. COORDINATE SIZE WITH DRAIN SIZE.
HB-1	HOSE BIB	WATTS HY-430	REFER TO MANUFACTURE FOR INSTALLATION REQUIREMENTS.

CLEANOUT SCHEDULE

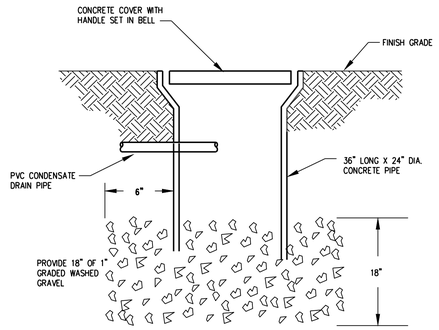
DESIGNATION	MANUFACTURER	SERIES
FCO	WATTS	C0200-R
WCO	WATTS	C0590-RD
ECO	WATTS	C0200-RX-4



INSULATED HANGER DETAIL
NTS



NON-INSULATED HANGER DETAIL
NTS



DRYWELL DETAIL
NTS

SCHEDULES AND DETAILS - PLUMBING
SCALE: 1/8" = 1'-0"

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File Date:	4/19/2019
File Name:	22103P6-1.DWG

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GENERAL LEGEND AND SYMBOLS

- PIPE SECTION-SUPPLY
- PIPE SECTION-RETURN
- DIRECTION OF FLOW IN PIPE
- PIPE UP
- PIPE DOWN
- PIPE GUIDE (G)
- FLEXIBLE PIPE CONNECTOR
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE, HORIZONTAL SWING
- GATE VALVE
- THREE WAY MODULATING CONTROL VALVE
- THREE-WAY CONTROL VALVE, MODULATING ACTUATOR
- TWO-WAY CONTROL VALVE, MODULATING ACTUATOR
- GLOBE VALVE
- BALANCING VALVE
- PLUG VALVE
- GAS COCK, GAS STOP
- STRAINER, Y-TYPE AND BLOWOFF VALVE
- PRESSURE RELIEF VALVE (WATER)
- PRESSURE REDUCING VALVE
- THERMOSTAT PORTS
- PRESSURE GAGE
- HYDRONIC TEMPERATURE SENSOR
- UNION
- VALVE IN SERVICE BOX WITH CAST IRON COVER
- SOLENOID VALVE
- CAPPED LINE
- DPS — DIFFERENTIAL PRESSURE SWITCH
- B. A. S. FLOW METER/MONITOR
- PUMP (ARROW INDICATES FLOW)
- THERMOMETER IN PIPE

- SUPPLY DIFFUSER
- SUPPLY PLAQUE DIFFUSER
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- x/x — RIGID DUCTWORK (WIDTH/DEPTH)
- ELBOW WITH TURNING VANES
- MANUAL SPLITTER DAMPER
- FLEXIBLE DUCT WITH SPIN-IN FITTING AND MANUAL VOLUME DAMPER
- MANUAL VOLUME DAMPER
- x/x — RIGID DUCTWORK (WIDTH/DEPTH)
- VD — MANUAL VOLUME DAMPER
- AREA TO DEMOLISH
- DUCTWORK/EQUIPMENT TO DEMOLISH
- POINT OF DEMOLITION OF EXISTING
- POINT OF CONNECTION OF NEW TO EXISTING
- 1 — DEMO KEYNOTE DESIGNATION
- 1 — KEYNOTE DESIGNATION
- ΔT — DELTA T (TEMPERATURE DIFFERENCE)
- —CD— CONDENSATE DRAIN LINE
- —CHWS— CHILLED WATER SUPPLY
- —CHWR— CHILLED WATER RETURN
- —CWS— CONDENSER WATER SUPPLY
- —CWR— CONDENSER WATER RETURN
- —R— REFRIGERANT LINES
- —GS— PRIMARY / GLYCOL SUPPLY
- —GR— PRIMARY / GLYCOL RETURN
- FD — FIRE DAMPER
- BDD — BACKDRAFT DAMPER
- MVD — MOTORIZED VOLUME DAMPER
- SD — SMOKE DAMPER
- T — THERMOSTAT
- H — HUMIDISTAT
- SD — DUCT MOUNTED SMOKE DETECTOR
- S_{CO} — CARBON MONOXIDE SENSOR (MOUNT @36" A.F.F.)
- S_{CO2} — CARBON DIOXIDE SENSOR (MOUNT @60" A.F.F.)
- T — THERMOSTAT
- BP — BIPOLAR IONIZATION UNIT
- —CD— CONDENSATE DRAIN LINE
- PVC CONDUIT
- 1 / M-0 — DETAIL OR RISER DESIGNATION / SHEET WHERE DETAIL OR RISER APPEAR

NOTE: ALL STANDARD SYMBOLS AND ABBREVIATIONS MAY NOT APPEAR ON THE PROJECT DRAWINGS.

ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AMP	AMPERES	HB	HOSE BIBB
AC	AIR CONDITIONING	H20	WATER
ACS	AUTOMATIC CONTROL SYSTEM	HC	HEATING COIL
ACU	AIR CONDITIONING UNIT	HD	HEAD
AD	ACCESS DOOR	HORIZ	HORIZONTAL
AFF	ABOVE FINISHED FLOOR	HP	HORSEPOWER
AHU	AIR HANDLING UNIT	HW	DOMESTIC HOT WATER
APPROX	APPROXIMATELY	HR	HOUR
AP	ACCESS PANEL	HRR	HEAT RECOVERY RETURN
ARCH	ARCHITECTURAL	HRS	HEAT RECOVERY SUPPLY
AUTO	AUTOMATIC	HZ	FREQUENCY
AUX	AUXILIARY	IN	INCH OR INCHES
BHP	BRAKE HORSEPOWER	INSUL	INSULATION
BLDG	BUILDING	IPS	IRON PIPE SIZE
BOD	BOTTOM OF DUCT	IST	ICE STORAGE TANKS
BP	BIPOLAR IONIZATION UNIT	KW	KILOWATT
BTU	BRITISH THERMAL UNIT	L	LENGTH
BTUH	BRITISH THERMAL UNITS PER HOUR	LAT	LEAVING AIR TEMPERATURE
BWV	BACK WATER VALVE	LBS/HR	POUNDS PER HOUR
CAM	COMMON AREA MAINTENANCE	LBS	POUNDS
CC	COOLING COIL	LCP	LOCAL CONTROL PANEL
CCP	CENTRAL CONTROL PANEL	LDB	LEAVING DRY BULB TEMPERATURE
CD	CONDENSATE DRAIN	LIN FT	LINEAR FEET
CFM	CUBIC FEET PER MINUTE	LWB	LEAVING WET BULB
CH	CHILLER	LWT	LEAVING WATER TEMPERATURE
CHR	CHILLED WATER RETURN	MAX	MAXIMUM
CHS	CHILLED WATER SUPPLY	MB	MIXING BOX
CHWP	CHILLED WATER PUMP	MBH	THOUSANDS, BTUH
CLG	CEILING	MC	MECHANICAL CONTRACTOR
CO	CLEAN-OUT	MIN	MINIMUM
COMB	COMBINATION	NC	NORMALLY CLOSED
COMPR	COMPRESSOR	NIC	NOT IN CONTRACT
COND	CONDENSATE OR CONDENSER	NO	NORMALLY OPEN
CONT	CONTINUATION	NO.	NUMBER
CMU	CONCRETE MASONRY UNIT	OA	OUTSIDE AIR
CU FT	CUBIC FEET	OD	OUTSIDE DIAMETER
CUH	CABINET UNIT HEATER	OV	OUTLET VELOCITY
CU IN	CUBIC INCHES	P	PRESSURE
CW	DOMESTIC COLD WATER	PC	PLUMBING CONTRACTOR
D	DRAIN LINE	PD	PRESSURE DROP
DB	DRY BULB	PSI	POUNDS PER SQUARE INCH
DG	DOOR GRILLE	PSIA	PSI ABSOLUTE
DHC	DUCT HEATING COIL	PSIG	PSI GAUGE
DIA	DIAMETER	PRESS	PRESSURE
DN	DOWN	PVC	POLYVINYL CHLORIDE
DWG	DRAWING	R	RISE
DX	DIRECT EXPANSION	RA	RETURN AIR
EAT	ENTERING AIR TEMPERATURE	RAF	RETURN AIR FAN
EC	ELECTRIC CONVECTOR	REQ'D	REQUIRED
ECO	EXTERIOR CLEANOUT	RHC	REHEAT COIL
EDB	ENTERING DRY BULB TEMPERATURE	R_{HG}	REFRIGERANT HOT GAS DISCHARGE
EF	EXHAUST FAN	R_{L}	REFRIGERANT LIQUID
EWH	ELECTRIC WATER HEATER	RM	ROOM
EL	ELEVATION	RPM	REVOLUTIONS PER MINUTE
ELEC	ELECTRIC	R_{S}	FLAT ON TOP
EQ	EQUAL	RV	RELIEF VALVE
EVAP	EVAPORATOR	S/FDPR	COMBINED SMOKE AND FIRE DAMPER
EWB	ENTERING WET BULB	SAN	SANITARY
EWT	ENTERING WATER TEMPERATURE	SAU	SOUND ATTENUATION UNIT
EXH	EXHAUST AIR	SCHS	SECONDARY GLYCOL CHILLED WATER SUPPLY
EXIST	EXISTING	SCHR	SECONDARY GLYCOL CHILLED WATER RETURN
EXP	EXPANSION	SPDR	SMOKE DAMPER
EEW	EYE WASH/SHOWER	SMH	STORM MANHOLE
F	FIRE SPRINKLER PIPING	SP	STATIC PRESSURE
°F	DEGREES FAHRENHEIT	SPEC	SPECIFICATION
AD	ACCESS DOOR	SCW	SOFT COLD WATER
FA	FREE AREA (SQ. FT.) OR FACE AREA	ST	STORM
FC	FLEXIBLE CONNECTION	TB	TERMINAL BOX
FCO	FLOOR CLEANOUT	TD	TRENCH DRAIN
FCU	FAN COIL UNIT	TDH	TOTAL DYNAMIC HEAD
FD	FLOOR DRAIN	TEMP	TEMPERATURE
FDPR	FIRE DAMPER	TES	THERMAL ENERGY STORAGE
FG	FINISHED GRADE	TS	TIPSPEED
FHC	FIRE HOSE CABINET	TYP	TYPICAL
FIN FL	FINISHED FLOOR	TX	TOILET EXHAUST
FLA	FULL LOAD AMPERES	UH	UNIT HEATER
FOB	FLAT ON BOTTOM	V	VENT LINE
FOT	FLAT ON TOP	VAV	VARIABLE AIR VOLUME UNIT
FPI	FINS PER INCH	VLV	VALVE
FPM	FEET PER MINUTE	VTR	VENT THRU ROOF
FPS	FEET PER SECOND	W	WIDTH
FTB	FAN POWERED TERMINAL BOX	W/	WITH
FV	FACE VELOCITY	W/O	WITHOUT
GA	GAUGE	WB	WET BULB
GAL	GALLONS	WC	WATER COLUMN
GCHS	GLYCOL CHILLED WATER SUPPLY	WCO	WALL CLEANOUT
GCHR	GLYCOL CHILLED WATER RETURN	WG	WATER GAUGE
GPH	GALLONS PER HOUR	WP	WORKING PRESSURE
GPM	GALLONS PER MINUTE	WMS	WIRE MESH SCREEN
GO	GAS OUTLET	RD	ROOF DRAIN
HGT	HEIGHT		

MECHANICAL GENERAL NOTES

1. ALL MECHANICAL WORK SHALL BE GOVERNED AND INSTALLED IN COMPLIANCE WITH THE LATEST EDITION AND APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS:
   A. STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES -SEC 453 OF FBC 2020.
   B. FLORIDA BUILDING CODE – 2020.
   C. FLORIDA MECHANICAL CODE – 2020.
   D. FLORIDA PLUMBING CODE – 2020.
   E. FLORIDA ENERGY EFFICIENCY CODE – 2020.
   F. FLORIDA FIRE PREVENTION CODE – 2020.
   G. FLORIDA EXISTING BUILDING CODE – 2020.
   H. NATIONAL ELECTRICAL CODE (NEC) – 2017.
   I. NFPA 90A – INSTALLATION OF AIR CONDITIONING & VENTILATING SYSTEMS
   J. NFPA 101 – LIFE SAFETY CODE
   K. ASHRAE STANDARDS (INCLUDING 15, 55, 62.1, 90.1 & 129)
   L. ANSI
   M. SMACNA DUCTWORK STANDARDS
   N. AMERICANS WITH DISABILITIES ACT (ADA)
   O. ALL OTHER APPLICABLE FEDERAL, COUNTY AND CITY CODES REQUIRED BY LOCAL JURISDICTIONS
2. THE CONTRACTOR SHALL READ THE SPECIFICATIONS. THE SPECIFICATIONS AND DRAWINGS TOGETHER DEFINE THE FULL CONTRACT REQUIREMENTS. IN THE EVENT OF A DISCREPANCY BETWEEN THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT APPLIES UNLESS DIRECTION HAS BEEN PROVIDED THROUGH A FORMAL REQUEST FOR INFORMATION OR CLARIFICATION PRIOR TO THE CLOSE OF THE BIDDING.
3. ANY PROPOSED EQUIPMENT OR MATERIAL SUBSTITUTIONS SHALL BE APPROVED BY THE OWNER AND ENGINEER OF RECORD PRIOR TO THE CLOSE OF BIDDING. NO EQUIPMENT OR MATERIAL SUBSTITUTIONS WILL BE CONSIDERED ONCE THE BIDDING HAS ENDED AND THE GMP HAS BEEN ESTABLISHED.
4. AIR HANDLING SYSTEMS SHALL NOT BE ENERGIZED UNTIL ALL OF THE DRYWALL FINISHING AND PAINTING SCOPES HAVE BEEN COMPLETED. CONFIRMATION THAT THOSE SCOPES ARE REQUIRED WITH WRITTEN APPROVAL FROM THE OWNER AND ENGINEER BEFORE AIR HANDLING UNIT AND FANS CAN BE ENERGIZED. FAILURE TO OBTAIN WRITTEN APPROVAL TO ENERGIZE THE FANS WILL RESULT IN THE CLEANING OF THE ENTIRE INTERIOR OF ANY AFFECTED AIR DISTRIBUTION SYSTEM BY A LICENSED THIRD-PARTY CONTRACTOR AT NO ADDITIONAL COST.
5. ALL TEMPORARY FILTRATION AT AIR HANDLING EQUIPMENT AND ANY RETURN AIR INTAKE GRILLE SHALL BE REPLACED A MINIMUM OF ONCE A MONTH DURING PERIODS OF OPERATION DURING CONSTRUCTION. A LOG MUST BE MAINTAINED AT EACH AIR HANDLING UNIT INDICATING DATES OF FILTER REPLACEMENTS FOR INSPECTION. FAILURE TO MAINTAIN THE REQUIRED LOGS WILL RESULT IN THE CLEANING OF THE ENTIRE INTERIOR OF ANY AFFECTED AIR DISTRIBUTION SYSTEM BY A LICENSED THIRD PARTY CONTRACTOR AT NO ADDITIONAL COST.
6. ALL EQUIPMENT, DUCTWORK AND MATERIALS STORED ON THE JOBSITE SHALL BE PROPERLY PROTECTED FROM THE ELEMENTS AND CONSTRUCTION DIRT AND DEBRIS. ANY MATERIAL EXPOSED TO THE ELEMENTS WITH EXPOSED INSULATION WILL BE REQUIRED TO BE REPLACED AT NO ADDITIONAL COST. ANY EQUIPMENT OR MATERIAL THAT IS EXPOSED TO THE ELEMENTS, DIRT AND DEBRIS THAT ARE DEEMED ACCEPTABLE TO REMAIN SHALL BE THOROUGHLY CLEANED AND DISINFECTED AND SIGNED OFF ON BY THE OWNER'S REPRESENTATIVE AND THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
7. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. VERIFY ALL REQUIREMENTS WITH EQUIPMENT SUPPLIED.
8. ALL EQUIPMENT HOUSINGS AND COMPONENTS INSTALLED OUTDOORS OR WITHIN UNCONDITIONED VENTILATED SPACES THAT ARE EXPOSED TO THE ELEMENTS SHALL BE SUITABLE FOR SEACOAST APPLICATION. ANY APPLIED CORROSION RESISTANT MATERIALS SHALL BE FACTORY APPLIED.
9. EVERY PIECE OF MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE WITH MINIMUM 1" HIGH LETTERS INDICATING EQUIPMENT DESIGNATION. ANY EQUIPMENT INSTALLED WHERE CONCEALED ABOVE CEILINGS SHALL BE NOTED WITH CLEAR ADHESIVE LABEL AT NEAREST T-GRID OR ON ACCESS PANEL IN ADDITION TO THE ENGRAVED NAMEPLATE.
10. ALL VARIABLE FREQUENCY DRIVES AND MOTOR STARTERS SHALL BE PROVIDED WITH ENGRAVED LABELS INDICATING ASSOCIATED EQUIPMENT THEY SERVE AS WELL AS THE ELECTRICAL PANEL AND CIRCUIT THAT FEEDS THE DEVICE.
11. ALL EXTERIOR MECHANICAL EQUIPMENT AND THEIR FRAMES, APPURTENANCES, COMPONENTS, SUPPORTS AND ANCHORING DEVICES SHALL BE ANCHORED TO RESIST THE FORCES DUE TO WIND PRESSURE AS REQUIRED BY THE FLORIDA BUILDING CODE.
12. ALL EQUIPMENT AND MATERIALS INSTALLED THAT INTERFACE WITH THE ROOFING SYSTEM SHALL BE COORDINATED WITH THE ROOFING SYSTEM BEING PROVIDED. ALL MECHANICAL EQUIPMENT INSTALLATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE ROOFING MANUFACTURER TO MAINTAIN CONTINUITY AND WARRANTIES.
13. COORDINATE LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLANS AND WORK OF ALL OTHER TRADES.
14. ALL LOW-PRESSURE SUPPLY, RETURN AND EXHAUST DUCTWORK ARE DESIGNED FROM A MINIMUM OF 0.05" TO A MAXIMUM OF 0.1" OF FRICTION PER 100 FT. OF DUCT.
15. UNLESS NOTED OTHERWISE, FLEXIBLE DUCT CONNECTORS AND RIGID DUCT RUNOUTS SERVING SINGLE DIFFUSER SHALL BE THE SAME SIZE AS DIFFUSER NECK.
16. UNLESS NOTED OTHERWISE, FLEXIBLE DUCT CONNECTORS FOR VAV BOXES AND FAN TERMINAL UNIT SHALL BE THE SAME SIZE AS UNIT INLET. VERIFY ACTUAL DIMENSIONS WITH EQUIPMENT SUPPLIED.
17. PAINT INTERNAL DUCTWORK VISIBLE THROUGH DIFFUSERS, GRILLE OR LOUVER FACE FLAT BLACK.
18. DUCTWORK LAYOUTS INDICATED ON PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO BE USED AS DUCT FABRICATION DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION EFFORTS BETWEEN TRADES AS OUTLINED IN THE SPECIFICATIONS.
19. ALL LOW-PRESSURE BRANCH DUCTS SHALL BE PROVIDED WITH A MANUAL VOLUME DAMPER FOR BALANCING. ALL MANUAL VOLUME DAMPERS SHALL BE PROVIDED WITH A MINIMUM 12" LENGTH OF FLUORESCENT ORANGE RIBBON TO AIDE IN VISIBILITY WHERE ABOVE CEILINGS.
20. ALL INSULATION / DUCT SEAMS SHALL BE SEALED WITH GLASS FAB, STAPLES AND MASTIC. PRESSURE SENSITIVE TAPE IS NOT AN APPROVED DUCT / INSULATION CLOSURE SYSTEM. ANY PRESSURE SENSITIVE TAPE USED WILL BE REQUIRED TO BE REMOVED AND REPLACED WITH A PROPER CLOSURE SYSTEM.
21. DUCT ACCESS DOORS SHALL BE PROVIDED WHERE ANY EQUIPMENT REQUIRING ACCESS IS INSTALLED ABOVE AN INACCESSIBLE CEILING. MINIMUM SIZE SHALL BE 12X12 OR AS LARGE AS NECESSARY TO ACCOMMODATE EQUIPMENT REPLACEMENT AND SERVICE.
22. ALL DUCT AND PIPING PENETRATIONS THROUGH TILT WALL PANELS SHALL BE COORDINATED BETWEEN THE TILT WALL AND MECHANICAL SUBCONTRACTORS PRIOR TO WALL PANEL FORMING OR DUCT FABRICATION.
23. THE FINISH OF ANY INTERIOR OR EXTERIOR EXPOSED MECHANICAL EQUIPMENT, DUCTWORK, FABRIC DUCT SYSTEMS, LOUVERS, ETC. SHALL BE CONFIRMED WITH THE ARCHITECT.
24. ALL DOORS TO INDIVIDUAL TOILETS, JANITORS CLOSETS AND OTHER SMALL SPACES WITHOUT RETURN GRILLS ARE TO BE UNDERCUT MINIMUM 1/2".
25. MOUNT SPACE MOUNTED SENSORS AT 48" TO THE CENTER UNLESS NOTED OTHERWISE.
26. ALL WALL SENSORS INSTALLED IN PUBLIC SPACES SUCH AS CORRIDORS, DINING AND GYMNASIUM SHALL BE PROVIDED WITH LOCKABLE VANDAL RESISTANT COVERS.
27. ALL WALL SENSORS SHALL BE PROVIDED WITH ENGRAVED NAMEPLATE WITH 1/4" HIGH LETTERS INDICATING THE ASSOCIATED MECHANICAL EQUIPMENT IT SERVES.
28. ALL THREE PHASE MOTORS SHALL HAVE PHASE LOSS / ROTATION MONITORS.
29. PROVIDE MOTOR STARTERS FOR ALL MOTORS THAT ARE REQUIRED TO BE CONTROLLED THAT ARE NOT BEING PROVIDED WITH A VARIABLE FREQUENCY DRIVE.
30. ALL REFRIGERANT LINE RUNS SHALL BE SIZED AND INSULATED PER THE MANUFACTURER'S RECOMMENDATIONS. UNLESS NOTED OTHERWISE, PROVIDE PVC CHASES UNDERGROUND WITH DIRECT PATH TO CONDENSING UNIT TO MINIMIZE LINE SET LENGTHS AS MUCH AS POSSIBLE. ALL REFRIGERANT LINES INSTALLED EXPOSED OUTDOORS SHALL BE NEATLY RACK MOUNTED AND PROVIDED WITH ALUMINUM JACKETING.
31. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL OF THE ROOF MOUNTED PLUMBING VENTS WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. THE CODE MINIMUM SEPARATION BETWEEN OUTDOOR AIR.
32. ALL PIECES OF MECHANICAL EQUIPMENT REQUIRING ACCESS LOCATED ABOVE HARD CEILINGS SHALL BE PROVIDED WITH ACCESS PANELS SIZED PER DRAWINGS AND/OR MANUFACTURER'S RECOMMENDATION, WHICHEVER IS LARGER. COORDINATE STYLE/COLOR/LOCATIONS OF PANEL WITH A/E/O.
33. CEILING CAVITY SHALL BE USED AS A RETURN PLENUM. ALL COMPONENTS (I.E., PIPING, WIRING, ETC.) INSTALLED WITHIN THE CEILING CAVITY SHALL BE PLENUM RATED, AS REQUIRED BY THE FLORIDA BUILDING CODE. MECHANICAL CONTRACTOR TO COORDINATE WITH OTHER TRADES TO ENSURE ALL COMPONENTS ARE PLENUM RATED.

MECHANICAL RENOVATION NOTES:

1. THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSAL SO AS TO BECOME FAMILIAR WITH EXISTING WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE BY DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED. THE CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL EXISTING CONDITIONS, PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
2. THE CONTRACTOR SHALL FIELD VERIFY AND CONFIRM THE CONDITION AND FUNCTIONALITY OF ALL EXISTING FINISHES, EQUIPMENT AND SYSTEMS TO REMAIN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL EXISTING CONDITIONS SHALL BE DOCUMENTED WITH PHOTOGRAPHIC OR VIDEO RECORDS. ANY FINISHES, SYSTEMS OR EQUIPMENT DEFICIENCIES SHALL BE DOCUMENTED AND CONFIRMED WITH THE OWNER / ENGINEER UPON COMPLETION OF THE VERIFICATION EFFORT. UPON COMPLETION OF THE PROJECT, ALL EXISTING EQUIPMENT AND SYSTEMS SHALL BE FULLY FUNCTIONAL AND FREE OF ANY DEFECTS NOT DOCUMENTED IN PRE-CONSTRUCTION VERIFICATION EFFORTS. IT WILL BE ASSUMED THAT ALL EXISTING FINISHES, SYSTEMS OR EQUIPMENT WERE IN PROPER CONDITION PRIOR TO THE CONSTRUCTION AND WILL BE REQUIRED TO BE CORRECTED BY THE CONTRACTOR UNLESS DOCUMENTATION IS PROVIDED INDICATING OTHERWISE.
3. ALL DEVICES AND EQUIPMENT NOT SHOWN AND IN AREAS OUTSIDE OF REMODELING SHALL REMAIN ACTIVE UNLESS OTHERWISE NOTED. THE PROJECT CONSTRUCTION SHALL PROCEED AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING DEVICES AND EQUIPMENT THAT REMAIN.
4. ALL EQUIPMENT AND MATERIAL REMOVED AND NOT REUSED SHALL BE TURNED OVER TO THE OWNER OR AT THE OWNER'S REQUEST DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST.
5. ALL EXISTING HVAC EQUIPMENT IS NOT SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO BID, AND INCLUDE IN HIS BID THE REMOVAL OF ALL EQUIPMENT, PIPING AND DUCTWORK, ETC. THAT IS NOT BEING REUSED BACK TO ITS SOURCE.
6. ALL PATCHING AND REPAIR OF EXISTING WALLS, CEILINGS, ROOFS, EARTH, WALKWAYS, PAVEMENT, ETC. SHALL BE PROVIDED BY THE CONTRACTOR. ALL ELEMENTS OF THE PROJECT DISTURBED BY THE CONSTRUCTION SHALL BE RETURNED TO "LIKE NEW" CONDITION TO MATCH THE ADJACENT SURROUNDINGS.
7. AN ATTEMPT HAS BEEN MADE TO FULLY VERIFY ALL EXISTING CONDITIONS IMPACTED BY THIS PROJECT. HOWEVER, THE DESIGN IS DIAGRAMMATIC AND THERE MAY BE EXISTING CONDITIONS THAT WILL REQUIRE ADJUSTMENTS TO THE LAYOUTS DEPICTED IN THE DOCUMENTS. IN ADDITION, THERE MAY BE ADJUSTMENTS REQUIRED TO EXISTING CONDITIONS TO ACCOMMODATE THE NEW SYSTEMS SUCH AS EXISTING PLUMBING PIPING, WIRING AND CONDUITS, ETC. ANY ADJUSTMENT TO THE SYSTEMS AND / OR ADJUSTMENTS TO EXISTING CONDITIONS SHALL BE PROVIDED AS REQUIRED TO ACCOMMODATE THE PROJECT SCOPE.
8. PORTIONS OF THE EXISTING CEILINGS AND LIGHT FIXTURES ARE GOING TO HAVE TO BE REMOVED TO ACCOMPLISH THE HVAC RENOVATION. THE EXTENT OF THE CEILING AND LIGHT FIXTURE REMOVAL IS TO BE FIELD VERIFIED BY THE CONTRACTOR AND BE AS MINIMAL AS POSSIBLE TO ACHIEVE THE PROJECT SCOPE. ANY DAMAGED CEILING TILES, CEILING GRID OR LIGHT FIXTURES SHALL BE REPLACED WITH NEW TO MATCH THE EXISTING.

COMMISSIOINING SCOPE:

1. INDEPENDENT COMISSIONING SERVICES WILL BE PROVIDED BY THE OWNER. THE CONTRACTOR AND ASSOCIATED SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION AND SUPPORT REQUIRED FOR ALL COMMISSIONING PROCEDURES AND ACTIVITIES.
2. ALL DEFICIENCIES OR ADJUSTMENTS NOTED AS REQUIRING CORRECTION BY THE OWNER'S COMMISSIONING AUTHORITY (CXA) SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST WITHIN FIVE CALENDAR DAYS OF NOTIFICATION.
3. PRIOR TO PASSING THE FINAL MECHANICAL INSPECTION, EVIDENCE OF THE MECHANICAL SYSTEM'S COMMISSIONING AND COMPLETION SHALL BE PROVIDED.
4. OWNER'S COMMISSIONING SERVICES REQUIREMENTS: COMMISSIONING SERVICES SHALL BE PROVIDED THROUGH A REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY IN ACCORDANCE WITH THE PROVISIONS OF THE FLORIDA BUILDING CODE, ENERGY CONSERVATION CODE SECTION C408. PRIOR TO PASSING THE FINAL MECHANICAL INSPECTION, EVIDENCE OF THE MECHANICAL SYSTEM'S COMMISSIONING AND COMPLETION SHALL BE PROVIDED. COPIES OF THE REQUIRED COMMISSIONING DOCUMENTATION SHALL BE PROVIDED TO THE OWNER AND MADE AVAILABLE TO THE CODE OFFICIAL UPON REQUEST.

TEST AND BALANCE SCOPE:

1. THE GENERAL CONTRACTOR / CONSTRUCTION MANAGER SHALL PROVIDE INDEPENDENT THIRD PARTY TEST AND BALANCE SERVICES.
2. THE ASSOCIATED SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION AND SUPPORT REQUIRED FOR ALL TEST AND BALANCE PROCEDURES AND ACTIVITIES.
3. ALL DEFICIENCIES OR ADJUSTMENTS NOTED AS REQUIRING CORRECTION BY THE THIRD PARTY TEST AND BALANCE CONTRACTOR SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST WITHIN FIVE CALENDAR DAYS OF NOTIFICATION.
4. REFER TO SPECIFICATIONS FOR PRELIMINARY AND FINAL PERFORMANCE VERIFICATION REQUIREMENTS.
5. A TEST AND BALANCE SHALL BE PERFORMED ON ANY SYSTEMS TO REMAIN THAT ARE UNDERGOING RENOVATION. THE EXISTING SYSTEM PERFORMANCE SHALL BE CONFIRMED PRIOR TO THE START OF THE RENOVATION. ANY SYSTEM OR PERFORMANCE DEFICIENCIES NOTED SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER FOR DIRECTION ON HOW TO PROCEED.

NOT FOR CONSTRUCTION

GENERAL NOTES - H.V.A.C.

SCALE: NTS

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No.	Date	Description

Client: St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
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FL. REG. NO.: PE57743

Sheet Title: GENERAL NOTES - H.V.A.C.

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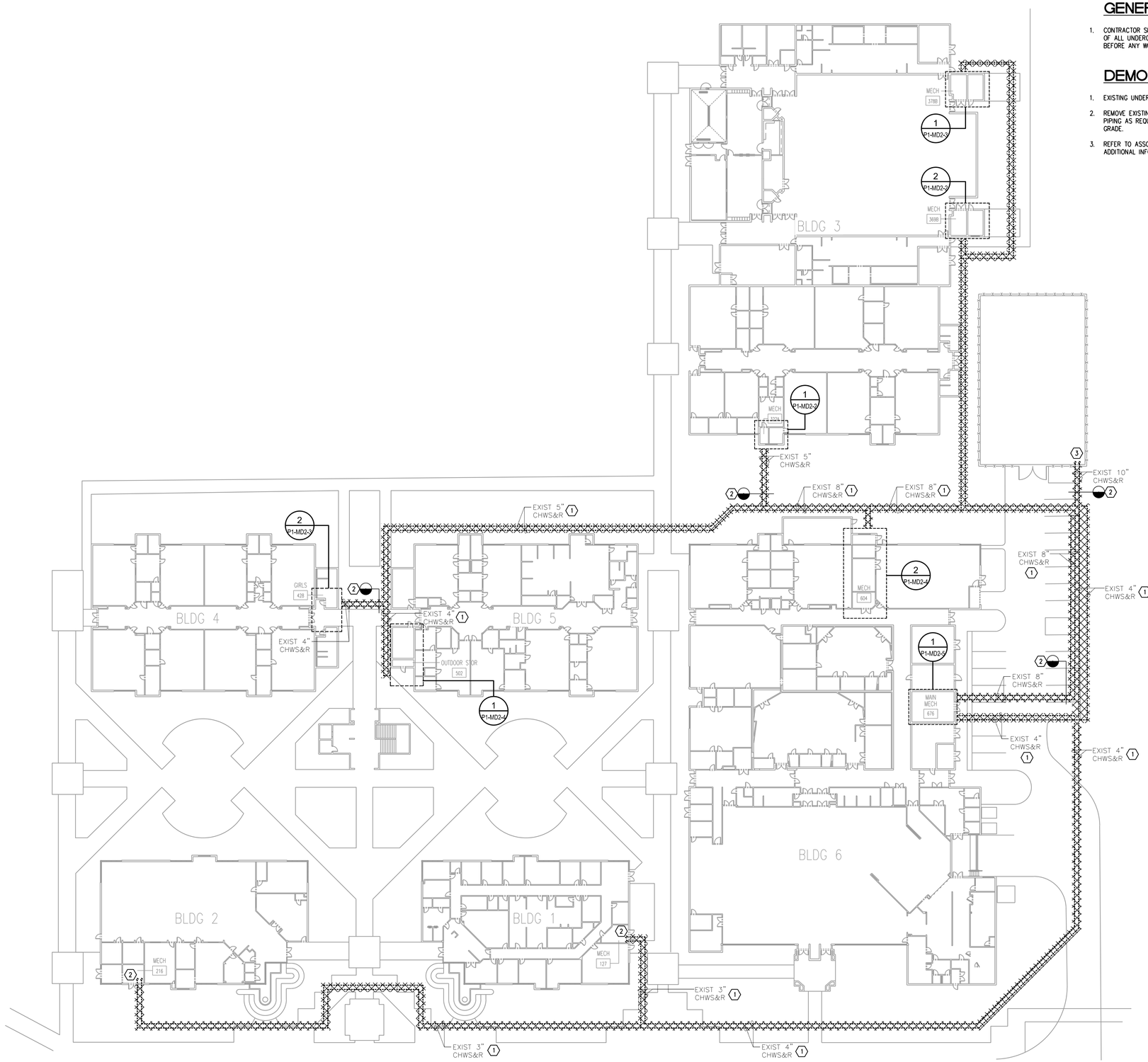
GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ROUTING OF ALL UNDERGROUND CHWS&R PIPING PRIOR TO BID AND BEFORE ANY WORK IS PERFORMED.

DEMO KEYNOTES (X):

1. EXISTING UNDERGROUND CHWS&R PIPING TO BE ABANDONED.
2. REMOVE EXISTING CHWS&R PIPING BELOW GRADE FROM MAIN PIPING AS REQUIRED. PROVIDE WITH STEEL WELDED CAPS BELOW GRADE.
3. REFER TO ASSOCIATED BUILDING PHASE 1 DEMO DRAWINGS FOR ADDITIONAL INFORMATION.



PHASE 1 - SITE PLAN -DEMO - H.V.A.C.
SCALE: 1" = 30'-0"

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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

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3201 S 25TH ST
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Seal:

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FL. REG. NO.: PE57743

Sheet Title:
SITE PLAN - DEMO - H.V.A.C.

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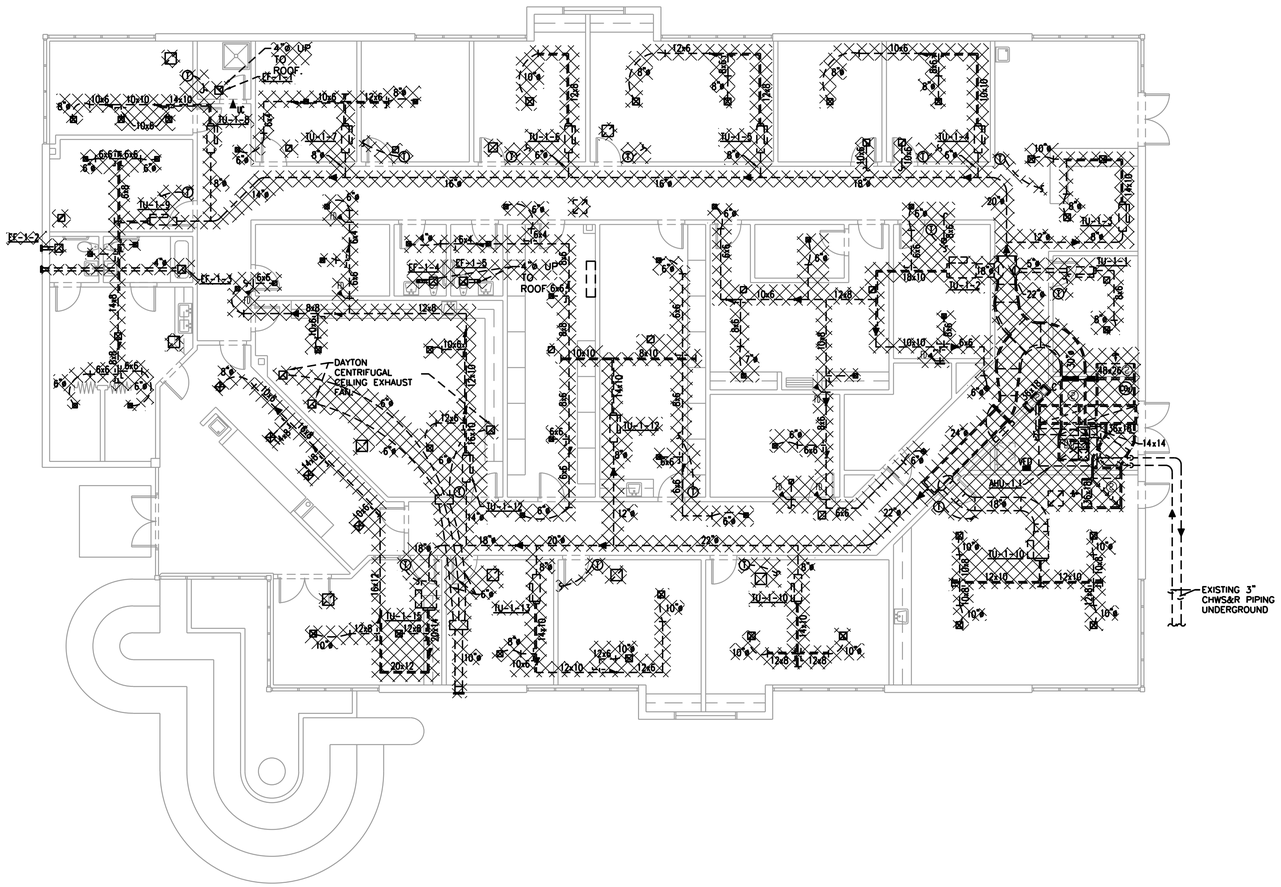
DEMO GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.

DEMO KEYNOTES ⓧ:

1. REMOVE EXISTING OUTSIDE AIR INTAKE UNIT, MOTORIZED DAMPER, AND ASSOCIATED DUCTWORK. EXISTING CURB SHALL REMAIN. PROVIDE AN INSULATED CURB CAP. (SEE DETAIL).
2. EXISTING 3" UNDERGROUND CHILLED WATER AND RETURN PIPING LINES TO BE ABANDONED AND FILLED WITH CONCRETE 20 FEET WITHIN UNDERGROUND PIPING. PROVIDE WITH STEEL WELDED CAPS FLUSH WITH GRADE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ROUTING OF UNDERGROUND CHILLED WATER SUPPLY AND RETURN PIPING. (PRIOR TO BID AND ANY WORK IS PERFORMED).
3. EXISTING MINI SPLIT SYSTEM MOUNTED HIGH ON WALL AND ASSOCIATED CONDENSING UNIT TO REMAIN. CONTRACTOR SHALL FIELD VERIFY CONDITION OF EXISTING UNIT AND CLEAN, REPAIR AND/OR REPLACE AS REQUIRED FOR PROPER WORKING OPERATION.
4. EXISTING GRILLE AND/OR REGISTER TO BE REMOVED. PATCH AND SEAL WEATHER TIGHT AND PAINT WALL TO MATCH EXISTING EXTERIOR COLOR AND TEXTURE.
5. REMOVE EXISTING AIR HANDLING UNIT, CONTROLS, VFD, ASSOCIATED PIPING, AND DUCTWORK AS SHOWN.
6. EXISTING EXHAUST FAN TO REMAIN. CONTRACTOR SHALL VERIFY CONDITION OF EXISTING EXHAUST FAN UNIT AND CLEAN, REPAIR AND/OR REPLACE AS REQUIRED FOR PROPER WORKING OPERATION.
7. EXISTING VACUUM SYSTEM SHALL BE REMOVED AND CAPPED FLUSH WITH WALL PENETRATION. VACUUM SYSTEM ROUTING WITHIN THE BUILDING SHALL BE ABANDONED IN PLACE.
8. REMOVE ALL DUCTWORK, AIR DISTRIBUTION DEVISES, SUPPORTS, VAV TERMINAL UNITS AND CONTROLS SHOWN IN CROSS-HATCH.
9. EXISTING GRILLE TO BE REMOVED. PATCH AND PAINT WALL TO MATCH EXISTING EXTERIOR COLOR AND TEXTURE.
10. REMOVE EXISTING CEILING EXHAUST FANS.
11. EXISTING FLOOR DRAIN SHALL BE REMOVED IN MECHANICAL ROOM. SEE PLUMBING PLANS FOR NEW FLOOR DRAIN LOCATION AND CONNECTION.
12. EXISTING CHILLED WATER SUPPLY AND RETURN PIPING WITHIN MECHANICAL ROOM SHALL BE REMOVED.



PHASE 1 - BUILDING 1 FLOOR PLAN - DEMO - H.V.A.C.

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

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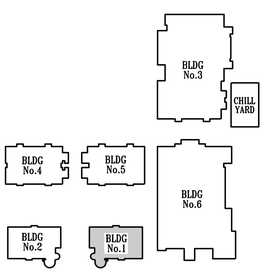

KEY PLAN

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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

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FORT PIERCE, FL 34981

Seal:

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Sheet Title:
PHASE 1 - BUILDING 1
FLOOR PLAN - DEMO -
H.V.A.C.

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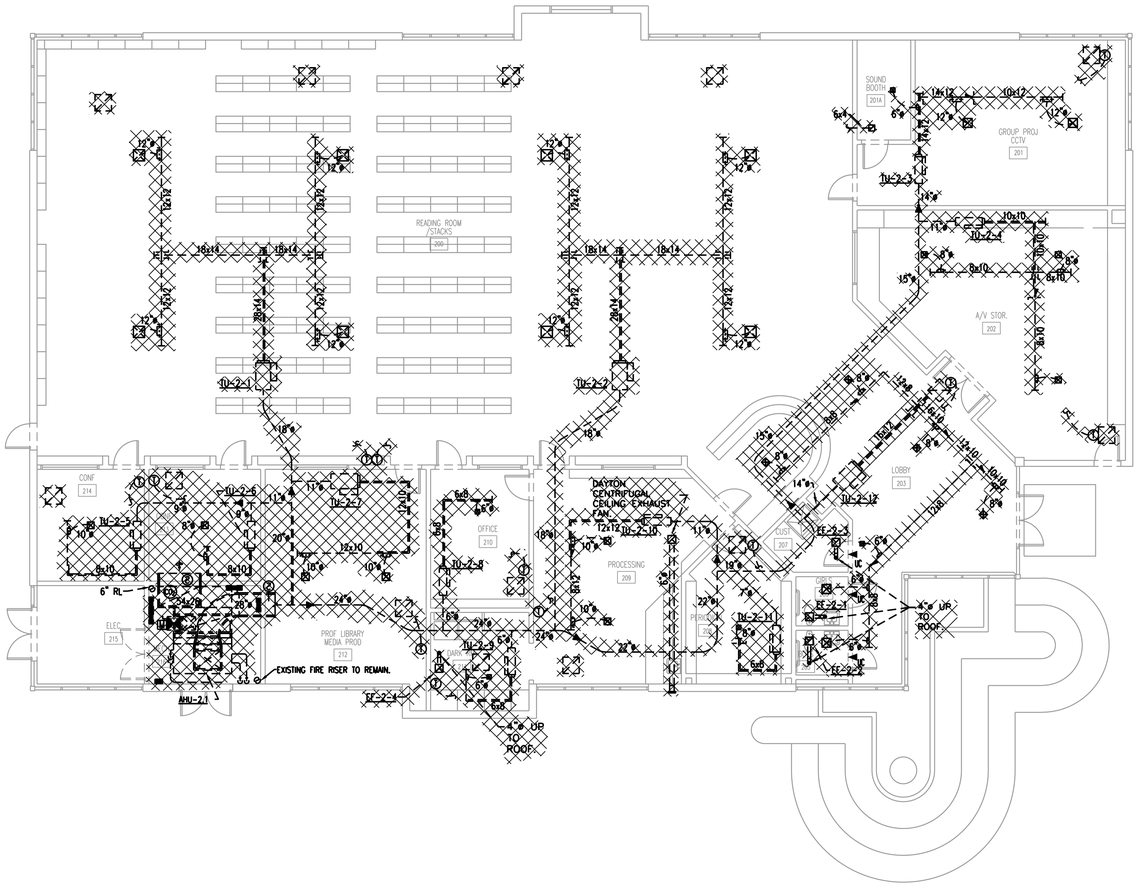
DEMO GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.

DEMO KEYNOTES (X):

1. REMOVE EXISTING OUTSIDE AIR INTAKE UNIT, MOTORIZED DAMPER, AND ASSOCIATED DUCTWORK. SEE RENOVATION PLANS FOR ADDITIONAL REQUIREMENTS.
2. EXISTING 3" UNDERGROUND CHILLED WATER AND RETURN PIPING LINES TO BE ABANDONED AND FILLED WITH CONCRETE 20 FEET WITHIN UNDERGROUND PIPING. PROVIDE WITH STEEL WELDED CAPS FLUSH WITH GRADE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ROUTING OF UNDERGROUND CHILLED WATER SUPPLY AND RETURN PIPING. (PRIOR TO BID AND ANY WORK IS PERFORMED).
3. EXISTING GRILLE AND/OR REGISTER TO BE REMOVED. PATCH AND PAINT WALL TO MATCH EXISTING EXTERIOR COLOR AND TEXTURE.
4. REMOVE EXISTING AIR HANDLING UNIT, CONTROLS, ASSOCIATED PIPING, AND DUCTWORK AS SHOWN.
5. REMOVE ALL DUCTWORK, AIR DISTRIBUTION DEVISES, SUPPORTS, AND CONTROLS SHOWN IN CROSS-HATCH.
6. EXISTING FLOOR DRAIN SHALL BE REMOVED IN MECHANICAL ROOM. SEE PLUMBING PLANS FOR NEW FLOOR DRAIN LOCATION AND CONNECTION.
7. EXISTING EXHAUST FAN TO REMAIN. CONTRACTOR SHALL VERIFY CONDITION OF EXISTING EXHAUST FAN UNIT AND CLEAN, REPAIR AND/OR REPLACE AS REQUIRED FOR PROPER WORKING OPERATION.
8. EXISTING VACUUM SYSTEM SHALL BE REMOVED AND CAPPED FLUSH WITH WALL PENETRATION. VACUUM SYSTEM ROUTING WITHIN THE BUILDING SHALL BE ABANDONED.
9. EXISTING CHILLED WATER SUPPLY AND RETURN PIPING WITHIN MECHANICAL ROOM SHALL BE REMOVED.



PHASE 1 - BUILDING 2 FLOOR PLAN - DEMO - H.V.A.C.

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

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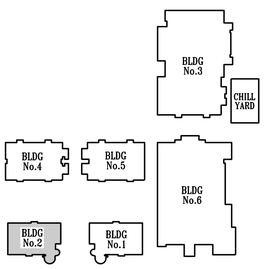

KEY PLAN

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Sheet Title:
PHASE 1 - BUILDING 2 FLOOR PLAN - DEMO - H.V.A.C.

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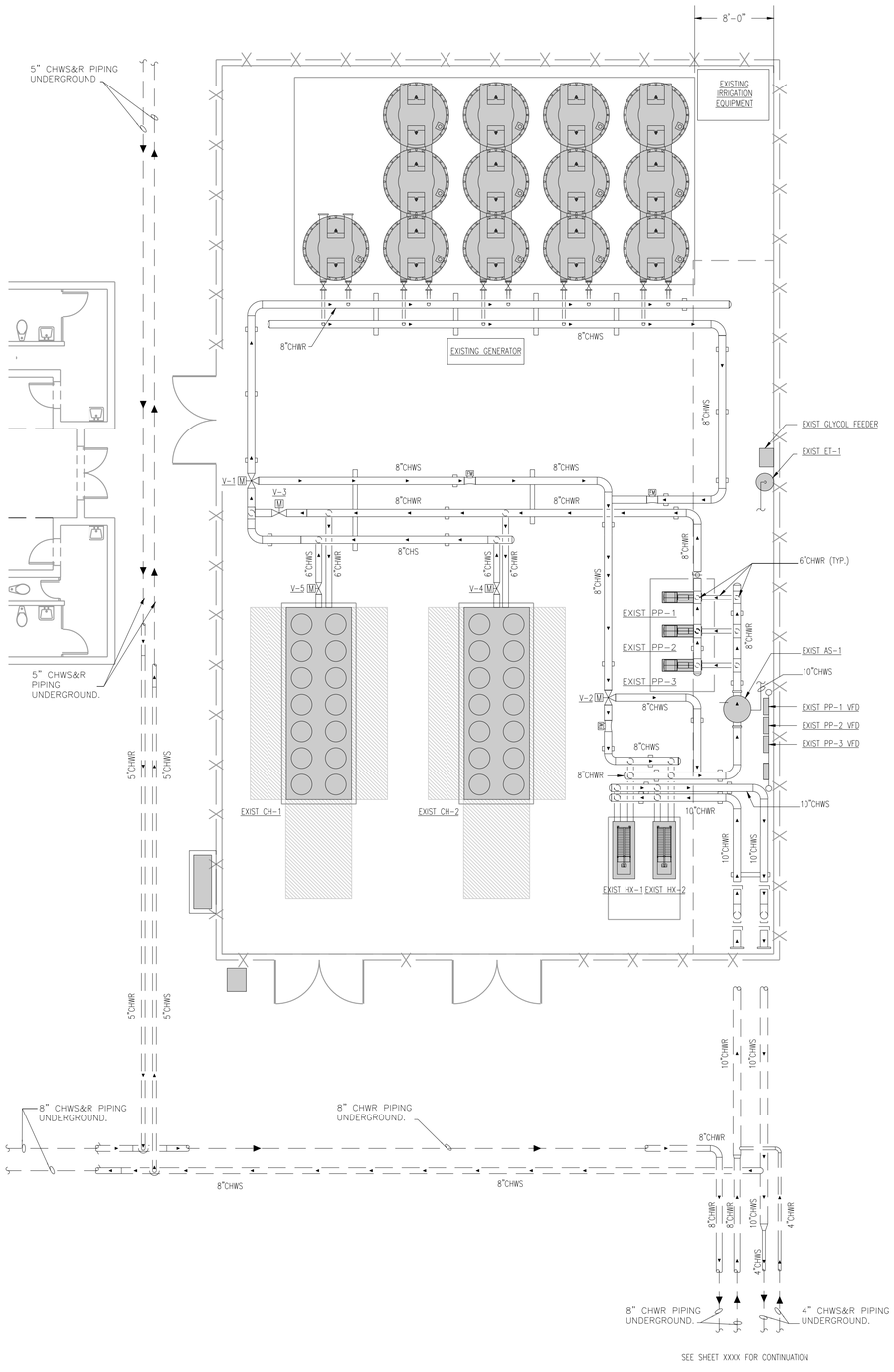
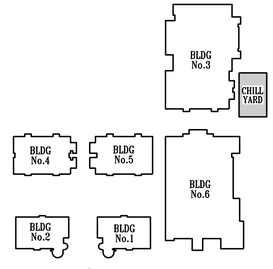


PHASE 1 - CHILLER YARD - DEMO - H.V.A.C.

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

NOT FOR CONSTRUCTION



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www.ociassociates.com

No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
PHASE 1 - CHILLER YARD - DEMO - H.V.A.C.

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	ML/RB
Checked By:	JLS
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P1-MD3-1.DWG

Drawing Number:

P1-MD3-1

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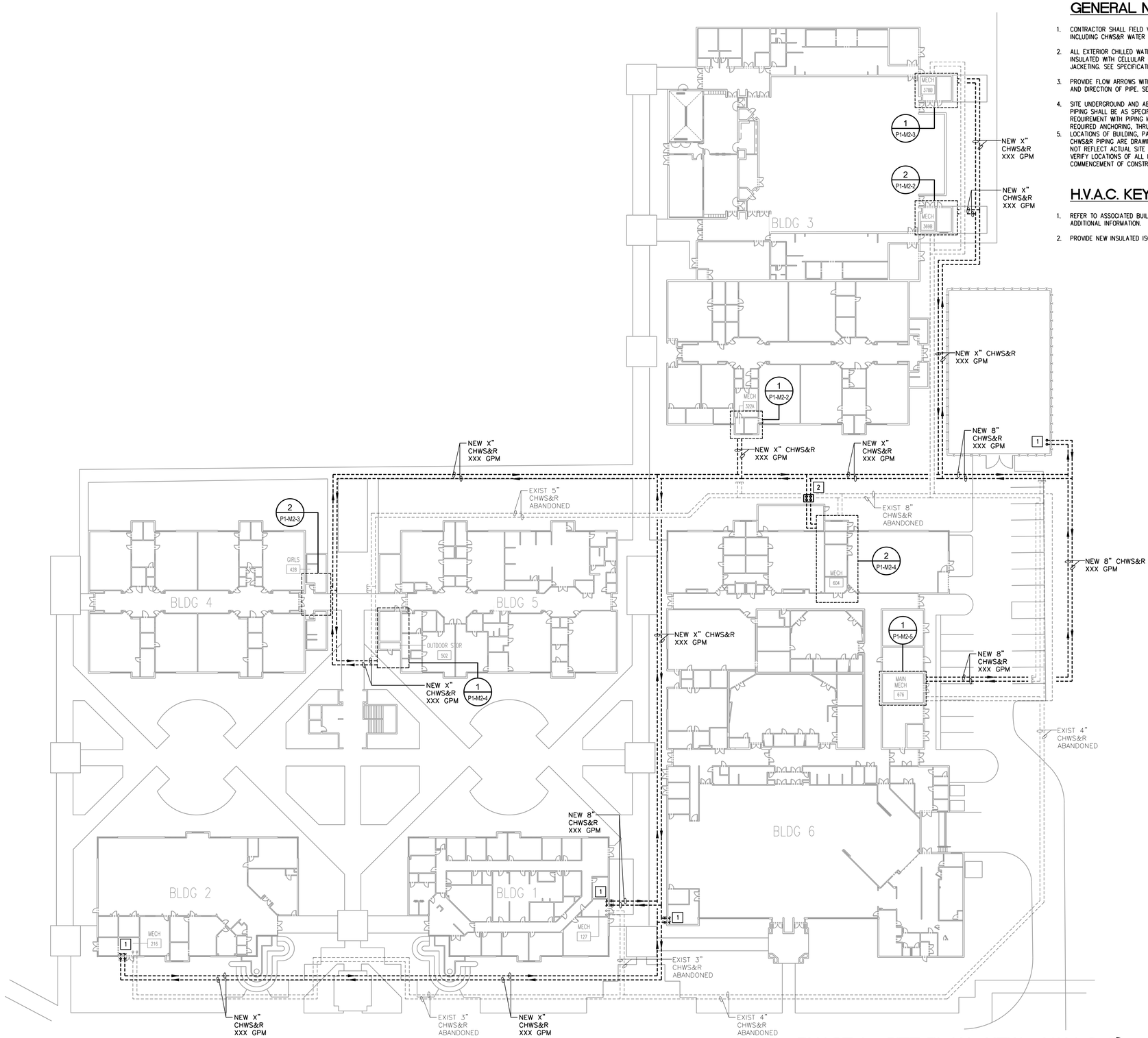
GENERAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING CHWS&R WATER FLOW DIRECTION PRIOR TO BID.
2. ALL EXTERIOR CHILLED WATER PIPING ABOVE GRADE SHALL BE INSULATED WITH CELLULAR GLASS AND PROTECTED WITH ALUMINUM JACKETING. SEE SPECIFICATIONS.
3. PROVIDE FLOW ARROWS WITH LETTERING INDICATING TYPE OF FLOW AND DIRECTION OF PIPE. SEE SPECIFICATIONS.
4. SITE UNDERGROUND AND ABOVE GROUND CHWS&R DISTRIBUTION PIPING SHALL BE AS SPECIFIED. COORDINATE ALL SYSTEMS REQUIREMENT WITH PIPING MANUFACTURER AND PROVIDE ALL REQUIRED ANCHORING, THRUST BLOCKING, EXPANSION LOOPS, ETC.
5. LOCATIONS OF BUILDING, PAVEMENT, UNDERGROUND UTILITIES AND CHWS&R PIPING ARE DRAWING PER AS-BUILT DRAWINGS AND MAY NOT REFLECT ACTUAL SITE CONDITIONS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL INFRASTRUCTURE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

H.V.A.C. KEYNOTES [X]:

1. REFER TO ASSOCIATED BUILDING PHASE 1 NEW DRAWINGS FOR ADDITIONAL INFORMATION.
2. PROVIDE NEW INSULATED ISOLATION VALVES WITHIN NEW VALVE BOX.



PHASE 1 - SITE PLAN- NEW - H.V.A.C.

SCALE: 1" = 30'-0"

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Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
SITE PLAN - NEW - H.V.A.C.

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	ML/RB
Checked By:	JLS
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P1-M1-0.DWG

Drawing Number:

P1-M2-1

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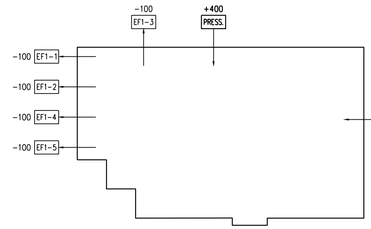
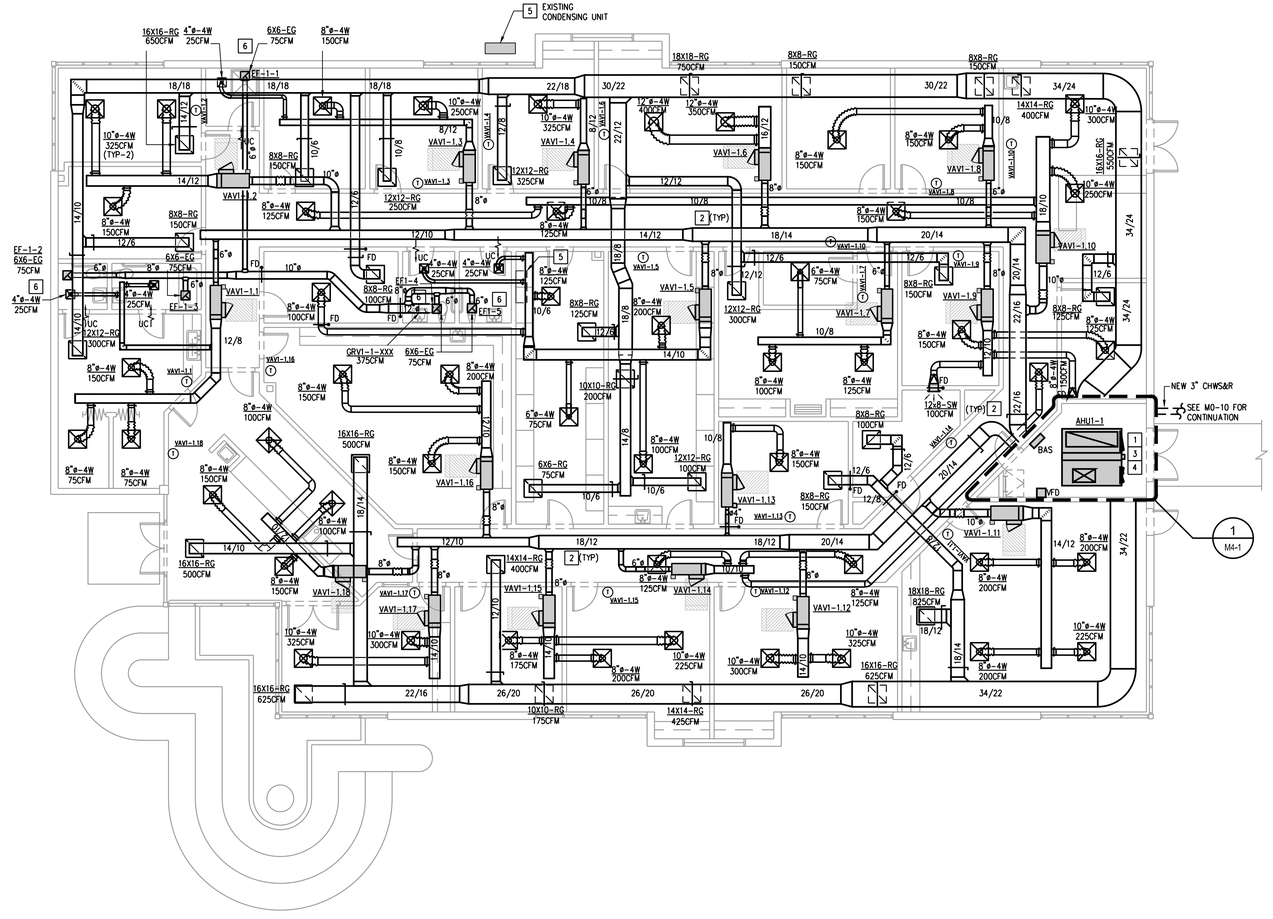


AIR BALANCE DIAGRAM - BLDG. 1

SCALE: NTS



PHASE 1 - BUILDING 1 FLOOR PLAN - NEW - H.V.A.C.

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

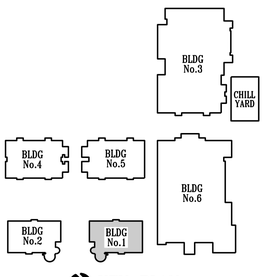
GENERAL NOTES:

1. INSTALL ALL VAV BOXES AT LOCATION AND ELEVATION TO PERMIT MAXIMUM ACCESS AND CLEARANCE SPACE FOR SERVICE.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
3. CONTRACTOR SHALL FIELD VERIFY ALL FIRE RATED WALLS AND PARTITIONS NEW AND EXISTING PRIOR TO BIDDING. PROVIDE UL LISTED FIRE STOP AND/OR UL LISTED FIRE DAMPER SYSTEMS PER LATEST CODE REQUIREMENTS. DRAWINGS HAVE BEEN DEVELOPED FROM EXISTING CONTRACT DOCUMENTS AND FIELD VERIFICATION, ALL FIRE/SMOKE RATINGS MAY NOT BE SHOWN.
4. CONTRACTOR SHALL COORDINATE CLEARANCE FOR DUCTWORK COORDINATE WITH EXISTING STRUCTURE AND CEILING HEIGHTS (TYP).
5. PROVIDE THERMOSTAT AND HUMIDISTAT IN ALL LOCATION WHERE A THERMOSTAT IS SHOWN.

H.V.A.C. KEYNOTES [X]:

1. REFER TO ENLARGED MECHANICAL ROOM PLANS ON SHEET M4-1 FOR ROUTING OF DUCTWORK AND PIPING IN MECHANICAL ROOM. REFER TO PLUMBING PLANS FOR ROUTING OF CONDENSATE DRAIN LINES.
2. ROUTE MAIN SUPPLY/RETURN AIR DUCTWORK TIGHT TO BOTTOM OF JOIST STRUCTURE. (TYP)
3. AFTER COMPLETE INSTALLATION OF ALL EQUIPMENT WITHIN MECHANICAL ROOM, THE EXISTING FLOOR SHALL BE STRIPED, CLEANED AND REPAINTED. THE EXISTING WALLS SHALL BE CLEANED, RESEALED, AND PAINTED.
4. AFTER COMPLETE INSTALLATION OF ALL EQUIPMENT AND RENOVATIONS OF FLOORS, WALLS, AND CEILINGS IN THE MECHANICAL ROOM, THE EXISTING MECHANICAL ROOM DOORS SHALL BE STRIPED, CLEANED, PRIMED, AND PAINTED. PAINT SHALL MATCH PREVIOUS EXISTING DOOR COLOR. CONTRACTOR SHALL PROVIDE WATERTIGHT SEAL BETWEEN EXTERIOR DOORS AND DOOR FRAME.
5. EXISTING MINI SPLIT SYSTEM FOR IT ROOM TO REMAIN. CONTRACTOR SHALL FIELD VERIFY CONDITION OF EXISTING UNIT. CLEAN, REPAIR, AND/OR REPLACE ANY COMPONENTS AS REQUIRED FOR PROPER OPERATION. REFER TO EXISTING UNIT MANUFACTURER FOR OPERATIONAL REQUIREMENTS.
6. EXISTING EXHAUST FAN TO REMAIN. CONTRACTOR SHALL VERIFY CONDITION OF EXISTING EXHAUST FAN UNIT AND CLEAN, REPAIR AND/OR REPLACE AS REQUIRED FOR PROPER WORKING OPERATION.

NOT FOR CONSTRUCTION



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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
PHASE 1 - BUILDING 1
FLOOR PLAN - NEW -
H.V.A.C.

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	ML/RB
Checked By:	JLS
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P1-M1-1.DWG

Drawing Number:

P1-M1-1

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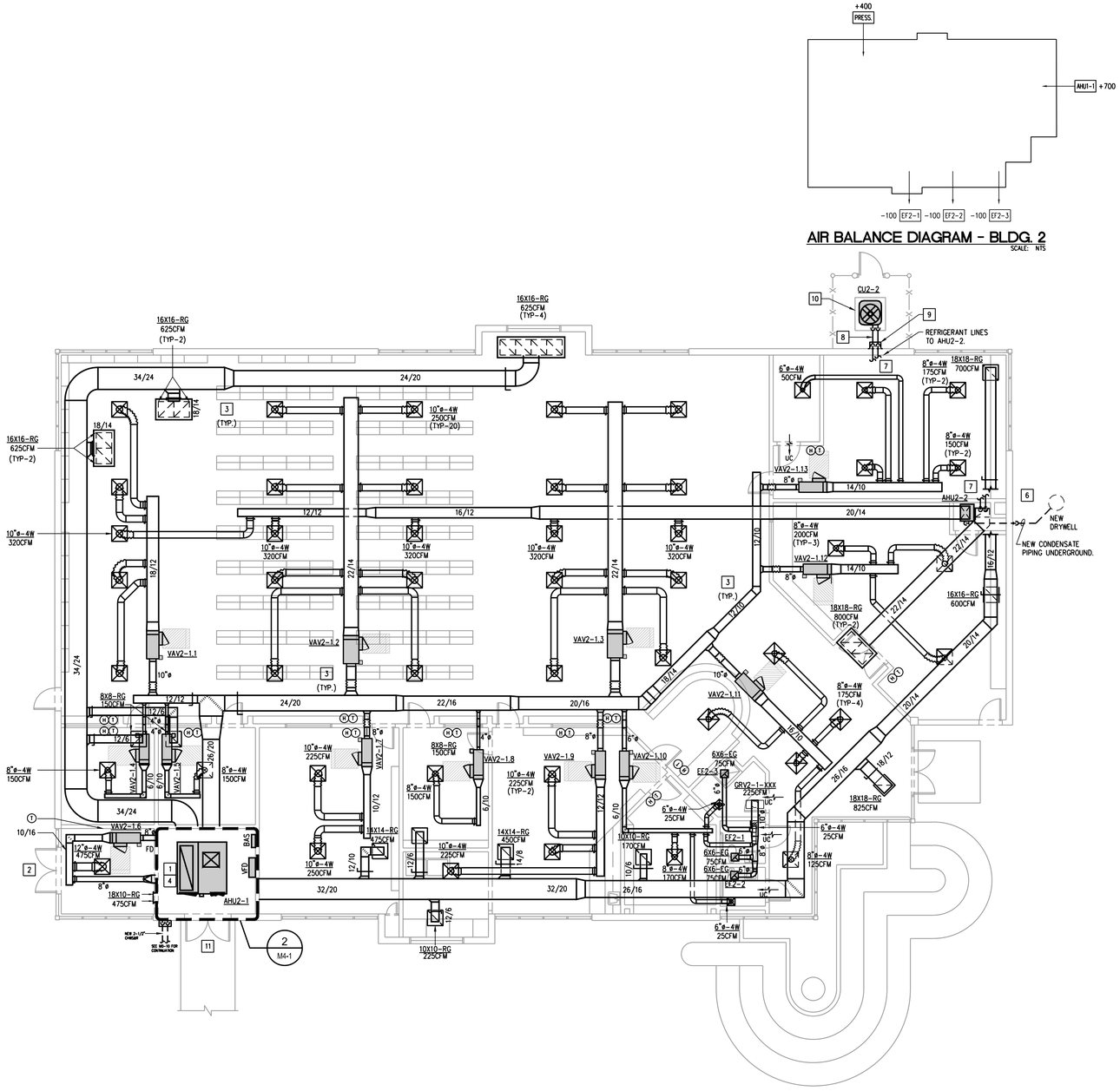


AIR BALANCE DIAGRAM - BLDG. 2

SCALE: NTS

PHASE 1 - BUILDING 2 FLOOR PLAN - NEW - H.V.A.C.

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

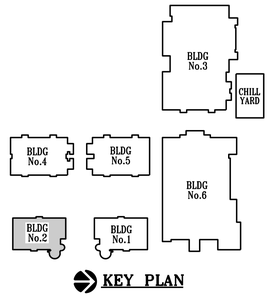
GENERAL NOTES:

1. INSTALL ALL VAV'S AT LOCATION AND ELEVATION TO PERMIT MAXIMUM ACCESS AND CLEARANCE SPACE FOR SERVICE.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
3. CONTRACTOR SHALL FIELD VERIFY ALL FIRE RATED WALLS AND PARTITIONS NEW AND EXISTING PRIOR TO BIDDING. PROVIDE UL LISTED FIRE STOP AND/OR UL LISTED FIRE DAMPER SYSTEMS PER LATEST CODE REQUIREMENTS. DRAWINGS HAVE BEEN DEVELOPED FROM EXISTING CONTRACT DOCUMENTS AND FIELD VERIFICATION, ALL FIRE/SMOKE RATINGS MAY NOT BE SHOWN.
4. CONTRACTOR SHALL COORDINATE CLEARANCE FOR DUCTWORK AND COORDINATE WITH EXISTING STRUCTURE AND CEILING HEIGHTS (TYP.).

H.V.A.C. KEYNOTES [X]:

1. REFER TO ENLARGED MECHANICAL ROOM PLANS FOR ROUTING OF DUCTWORK AND PIPING IN MECHANICAL ROOM. REFER TO PLUMBING PLANS FOR ROUTING OF CONDENSATE DRAIN LINES.
2. CONTRACTOR SHALL REPLACE EXISTING DOORS WITH NEW INSULATED SOLID STEEL DOORS WITH COMPLETE HARDWARE. PRIME AND PAINT TO OWNER'S COLOR SELECTION. SEE ARCHITECTURE PLANS.
3. ROUTE MAIN SUPPLY/RETURN AIR DUCTWORK TIGHT TO BOTTOM OF JOIST STRUCTURE. (TYP)
4. AFTER COMPLETE INSTALLATION OF ALL EQUIPMENT WITHIN MECHANICAL ROOM, THE EXISTING FLOOR SHALL BE STRIPED, CLEANED AND REPAINTED. THE EXISTING WALLS SHALL BE CLEANED, RESEALED, AND PAINTED.
5. EXISTING EXHAUST FAN TO REMAIN. CONTRACTOR SHALL VERIFY CONDITION OF EXISTING EXHAUST FAN UNIT AND CLEAN, REPAIR AND/OR REPLACE AS REQUIRED FOR PROPER WORKING OPERATION.
6. ROUTE NEW INSULATED CONDENSATE DRAIN LINE THRU EXTERIOR WALL, DOWN TO BELOW GRADE TO NEW DRYWELL LOCATION AS INDICATED (REFER TO DETAIL). PAINT ALL EXTERIOR INSULATION WITH WHITE ELECTROMETRIC UV PROTECTION PAINT.
7. ROUTE REFRIGERANT LINES ABOVE CEILING FROM AIR HANDLER UNIT TO CONDENSER UNIT ON GROUND. SIZE AND INSULATE PER MANUFACTURER RECOMMENDATIONS. (REFER TO DETAIL). SUPPORT PIPING AS REQUIRED PER SPECIFICATIONS.
8. REFRIGERANT PIPING TO CONDENSING UNIT SHALL BE INSULATED PER SPECIFICATIONS AND PAINTED WITH WHITE ELASTROMERIC UV PROTECTION PAINT.
9. CONTRACTOR SHALL PROVIDE 20 GAUGE GAVLVANIZED STEEL PIPING SHROUD, FASTENED TO EXTERIOR WALL WITH NO SHARP EXPOSED EDGES AND PAINTED TO MATCH EXISTING EXTERIOR WALL. ALL REFRIGERANT PIPING MOUNTED ON EXTERIOR SHALL BE RUN WITHIN SHROUD, SEAL ENDS WITH FOAM, AND WALL PENETRATIONS WITH CALKING.
10.
11. NEW CONDENSER UNIT CU2-2 MOUNTED ON 4" THICK CONCRETE PAD. CONTRACTOR SHALL LOCATE UNIT AWAY FROM EXTERIOR WALL MINIMUM OF 3'-0". REFRIGERANT LINES SHALL TERMINATE AT TOP OF PAD. CONTRACTOR SHALL INSTALL A MINIMUM 6'-0" HIGH CHAIN LEAK FENCE AROUND CU2-2 WITH 3'-0" ACCESS GATE. INSTALL FENCE POST WITHIN POURED PAD. LOCK SET TO BE PROVIDED BY OWNER.
12. PROVIDE NEW SOLID STEEL DOORS WITH COMPLETE HARDWARE. PRIME AND PAINT TO OWNER'S COLOR SELECTION. SEE ARCHITECTURAL PLANS.

NOT FOR CONSTRUCTION



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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
PHASE 1 - BUILDING 2
FLOOR PLAN - NEW -
H.V.A.C.

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	ML/RB
Checked By:	JLS
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P1-M1-2.DWG

Drawing Number:

P1-M1-2

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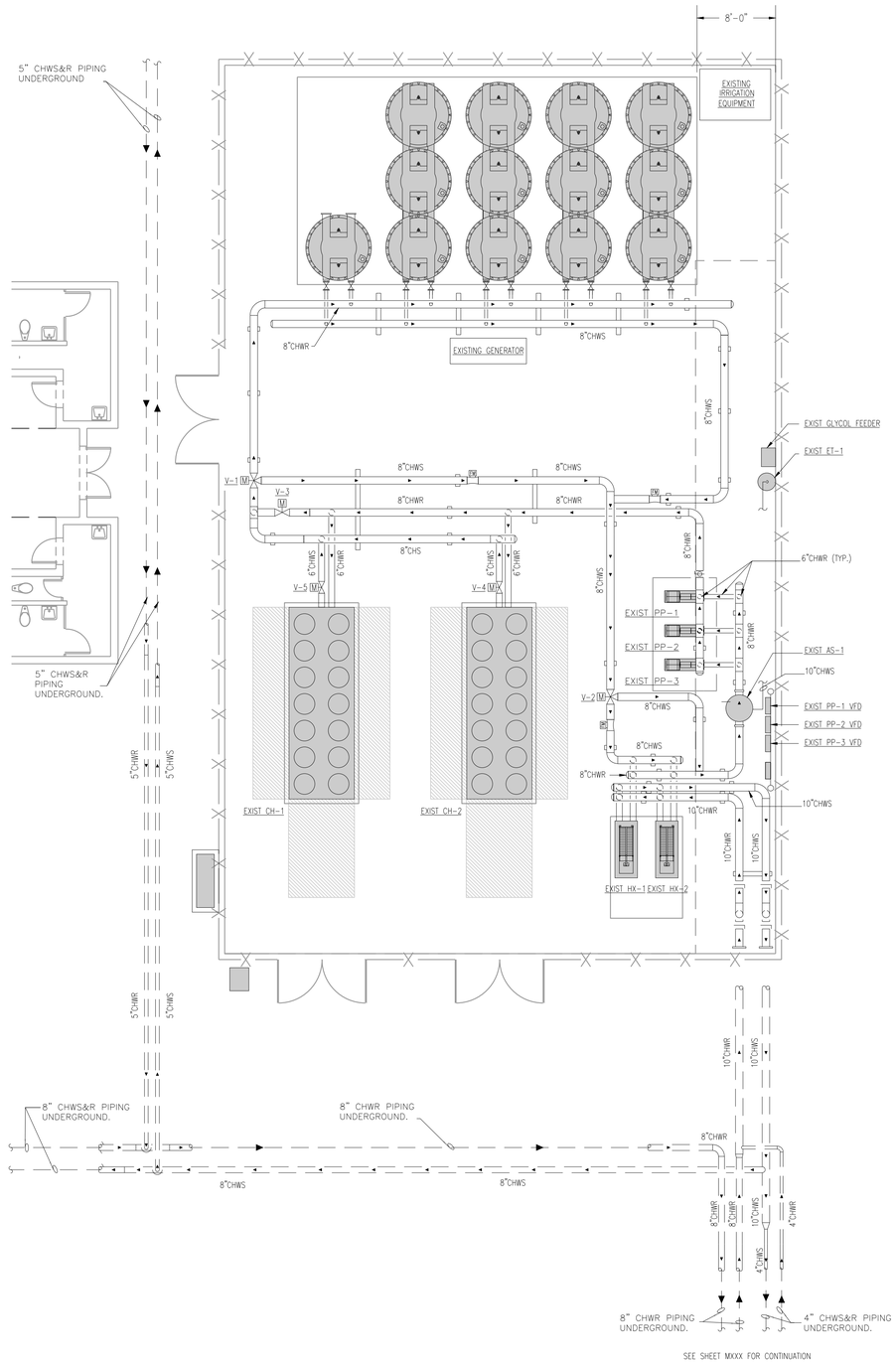
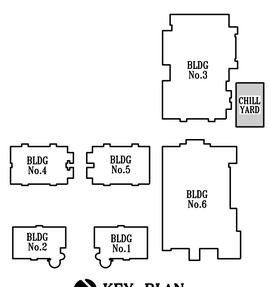


PHASE 1 - CHILLER YARD - NEW - H.V.A.C.

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

NOT FOR CONSTRUCTION



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Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	ML/RB
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Project Number:	22103
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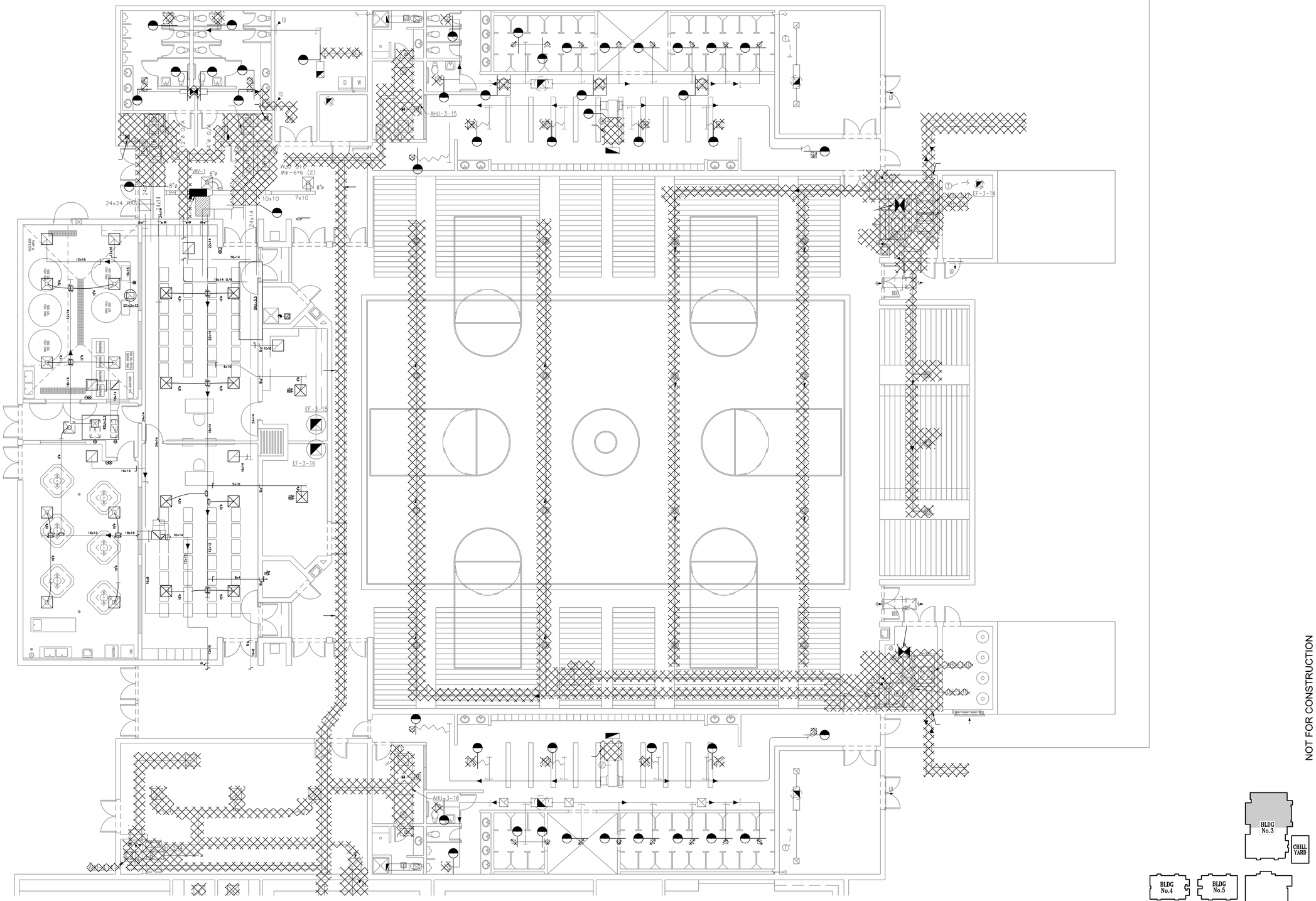
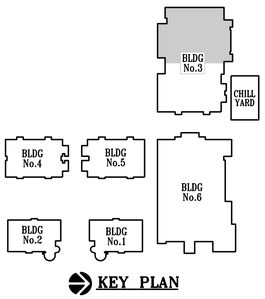


PHASE 2 - BUILDING 3 PARTIAL PLAN - DEMO - H.V.A.C.

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

NOT FOR CONSTRUCTION



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MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:

PHASE 2 - BUILDING 3
PARTIAL PLAN - DEMO -
H.V.A.C.

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	ML/RB
Checked By:	JLS
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-MD1-3A.DWG

Drawing Number:

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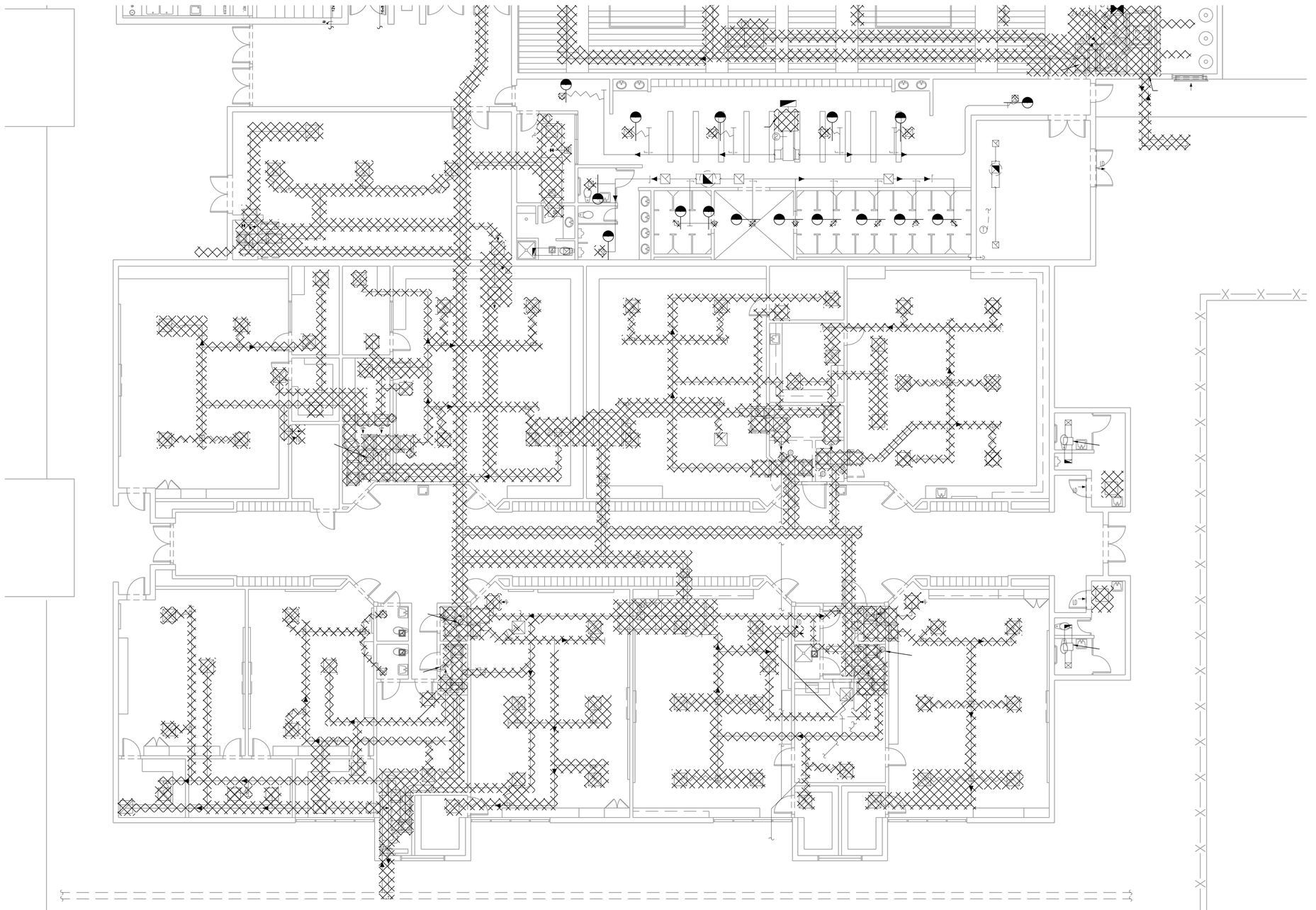
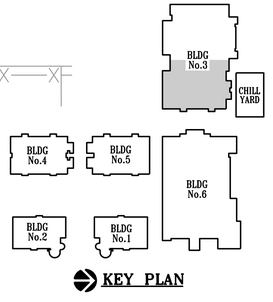


PHASE 2 - BUILDING 3 PARTIAL PLAN - DEMO - H.V.A.C.

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



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H.V.A.C.

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File Name:	22103P2-MD1-3B.DWG

Drawing Number:

P2-MD1-3b

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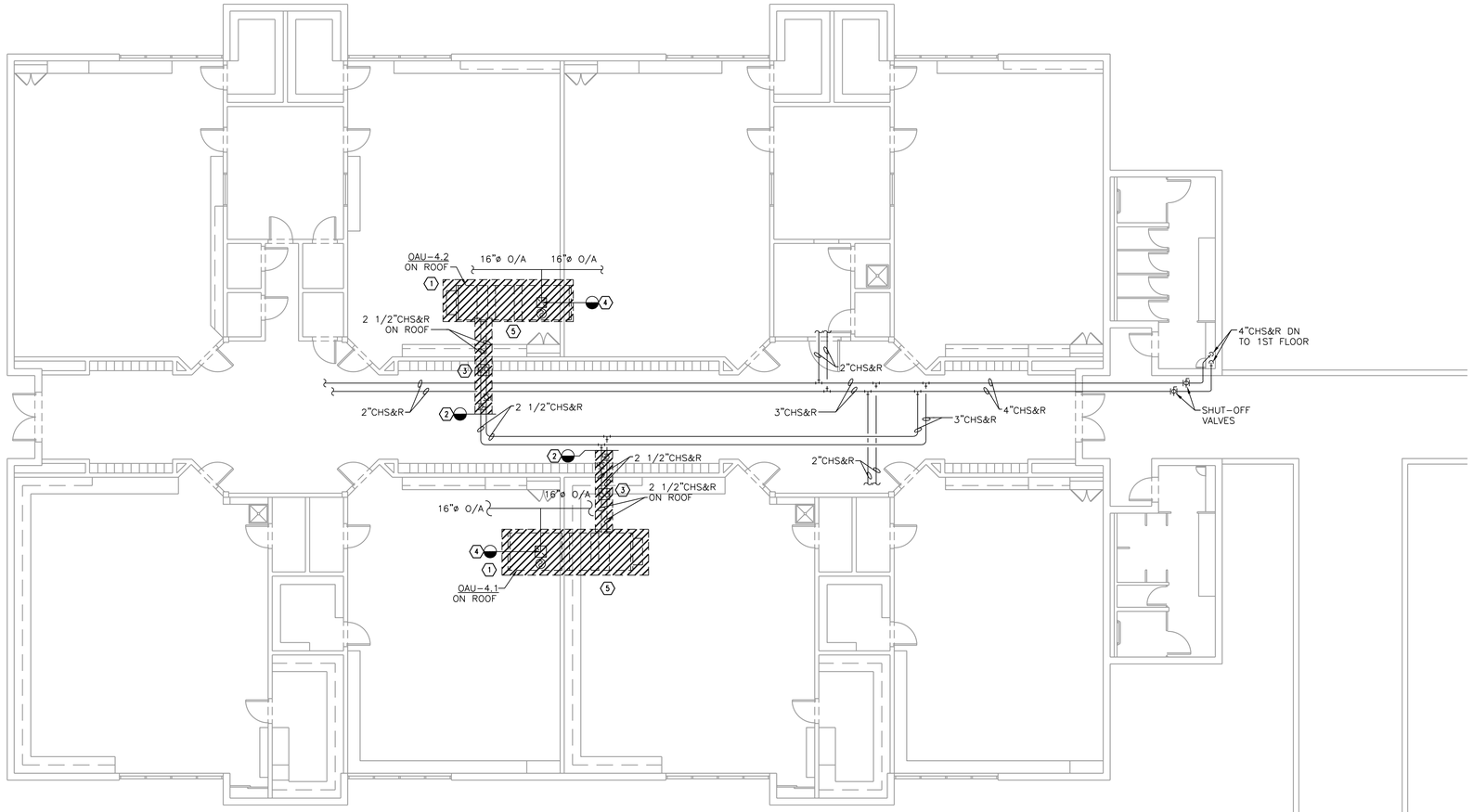
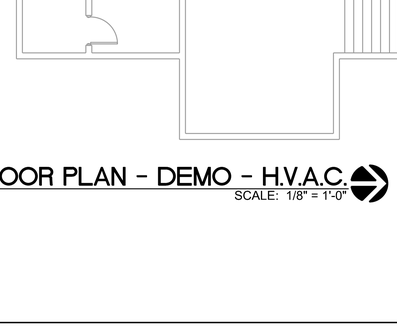
DEMO KEYNOTES ⓧ:

1. REMOVE EXISTING OUTSIDE AIR UNIT AND ASSOCIATED MATERIALS AND CONTROLS. EXISTING CURB SHALL REMAIN. PROVIDE INSULATED CURB CAP AND SEAL WEATHER TIGHT. SECURE FOR WIND LOAD OF 140 MPH (SEE DETAIL). EXISTING OPENING SHALL BE REUSED. SEE RENOVATION PLANS FOR ADDITIONAL REQUIREMENTS.
2. REMOVE EXISTING CHILLED WATER LINES AND SHUT OFF VALVES BACK TO POINT SHOWN. PROVIDE CHILLED WATER LINES WITH WELDED STEEL CAPS.
3. REMOVE CHILLED WATER PIPING HOOD FROM CURB. PROVIDE INSULATED CURB CAP AND SEAL WEATHER TIGHT TO EXISTING CURB. SECURE FOR WIND LOAD OF 140 MPH (SEE DETAIL).
4. DISCONNECT EXISTING OUTSIDE AIR DUCTWORK FROM OUTSIDE AIR UNIT. EXISTING OUTSIDE AIR DUCTWORK SHALL REMAIN. SEE RENOVATION PLAN FOR ADDITIONAL REQUIREMENTS.
5. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING FEEDERS TO OAU-4.1 AND OAU-4.2. CONTRACTOR SHALL REMOVE EXISTING FEEDERS SERVING UNITS BACK TO SOURCE.

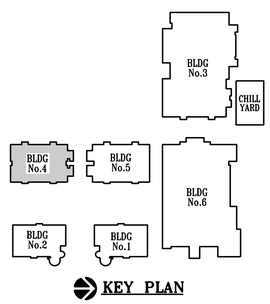




NOT FOR CONSTRUCTION

PHASE 2 - BUILDING 4 2ND FLOOR PLAN - DEMO - H.V.A.C.

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



KEY PLAN

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www.ociassociates.com

No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
PHASE 2 - BUILDING 4
2ND FLOOR PLAN - DEMO -
H.V.A.C.

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	ML/RB
Checked By:	JLS
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-MD1-4B.DWG

Drawing Number:

P2-MD1-4b

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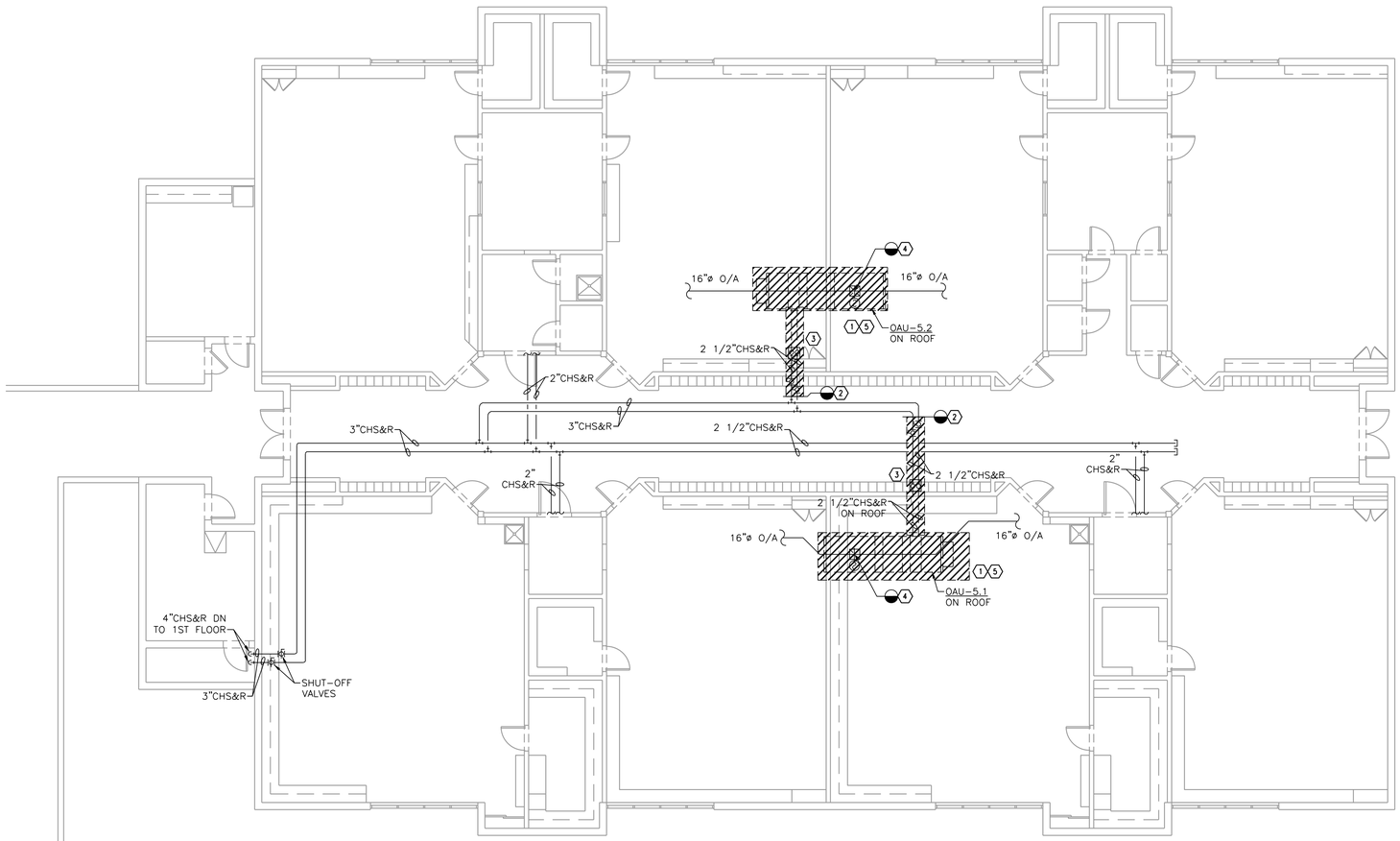
DEMO KEYNOTES ⓧ:

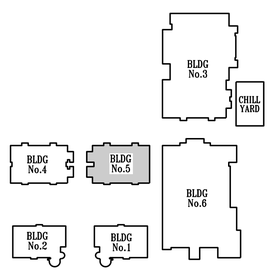
1. REMOVE EXISTING OUTSIDE AIR UNIT AND ASSOCIATED MATERIALS AND CONTROLS. EXISTING CURB SHALL REMAIN. PROVIDE INSULATED CURB CAP AND SEAL WEATHER TIGHT. SECURE FOR WIND LOAD OF 140 MPH (SEE DETAIL). EXISTING OPENING SHALL BE REUSED. SEE RENOVATION PLANS FOR ADDITIONAL REQUIREMENTS.
2. REMOVE EXISTING CHILLED WATER LINES AND SHUT OFF VALVES BACK TO POINT SHOWN. PROVIDE CHILLED WATER LINES WITH WELDED STEEL CAPS.
3. REMOVE CHILLED WATER PIPING HOOD FROM CURB. PROVIDE INSULATED CURB CAP AND SEAL WEATHER TIGHT TO EXISTING CURB. SECURE FOR WIND LOAD OF 140 MPH (SEE DETAIL).
4. DISCONNECT EXISTING OUTSIDE AIR DUCTWORK FROM OUTSIDE AIR UNIT. EXISTING OUTSIDE AIR DUCTWORK SHALL REMAIN. SEE RENOVATION PLAN FOR ADDITIONAL REQUIREMENTS.
5. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING FEEDERS TO OAU-4.1 AND OAU-4.2. CONTRACTOR SHALL REMOVE EXISTING FEEDERS SERVING UNITS BACK TO SOURCE.



PHASE 2 - BUILDING 5 2ND FLOOR PLAN - DEMO - H.V.A.C.

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

NOT FOR CONSTRUCTION



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Client:

St. Lucie PUBLIC SCHOOLS

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FGMS AHU RETROFIT

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FORT PIERCE, FL 34981

Seal:

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600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:

PHASE 2 - BUILDING 5
2ND FLOOR PLAN - DEMO -
H.V.A.C.

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	ML/RB
Checked By:	JLS
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-MD1-5B.DWG

Drawing Number:

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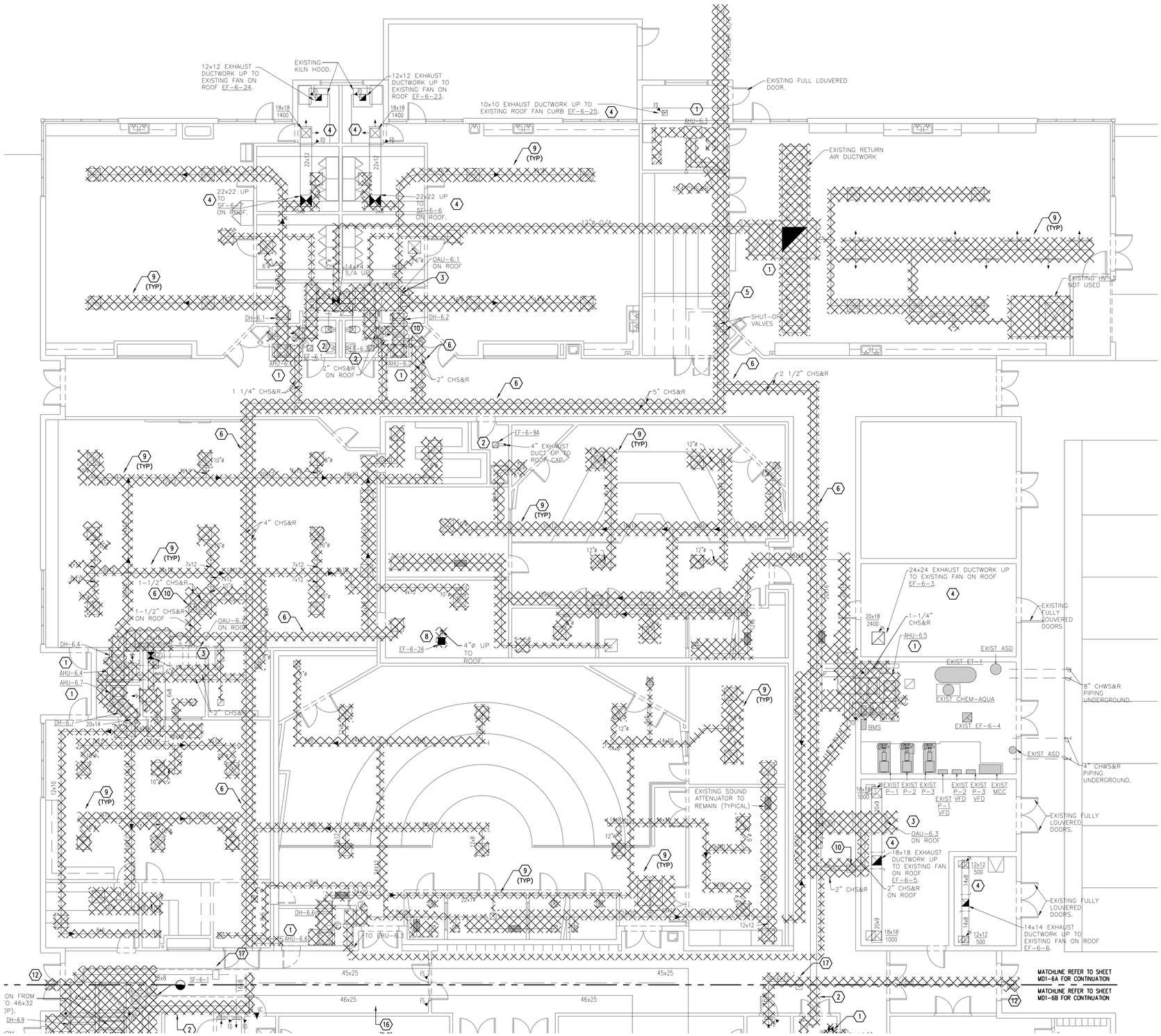
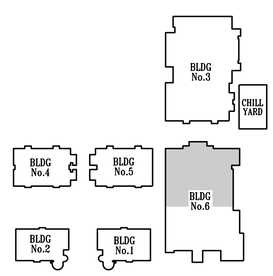


PHASE 2 - BUILDING 6 PARTIAL PLAN - DEMO - H.V.A.C.

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



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FORT PIERCE, FL 34981

Seal:

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FL. REG. NO.: PE57743

Sheet Title:
PHASE 2 - BUILDING 6
PARTIAL PLAN - DEMO -
H.V.A.C.

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	ML/RB
Checked By:	JLS
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-MD1-6A.DWG

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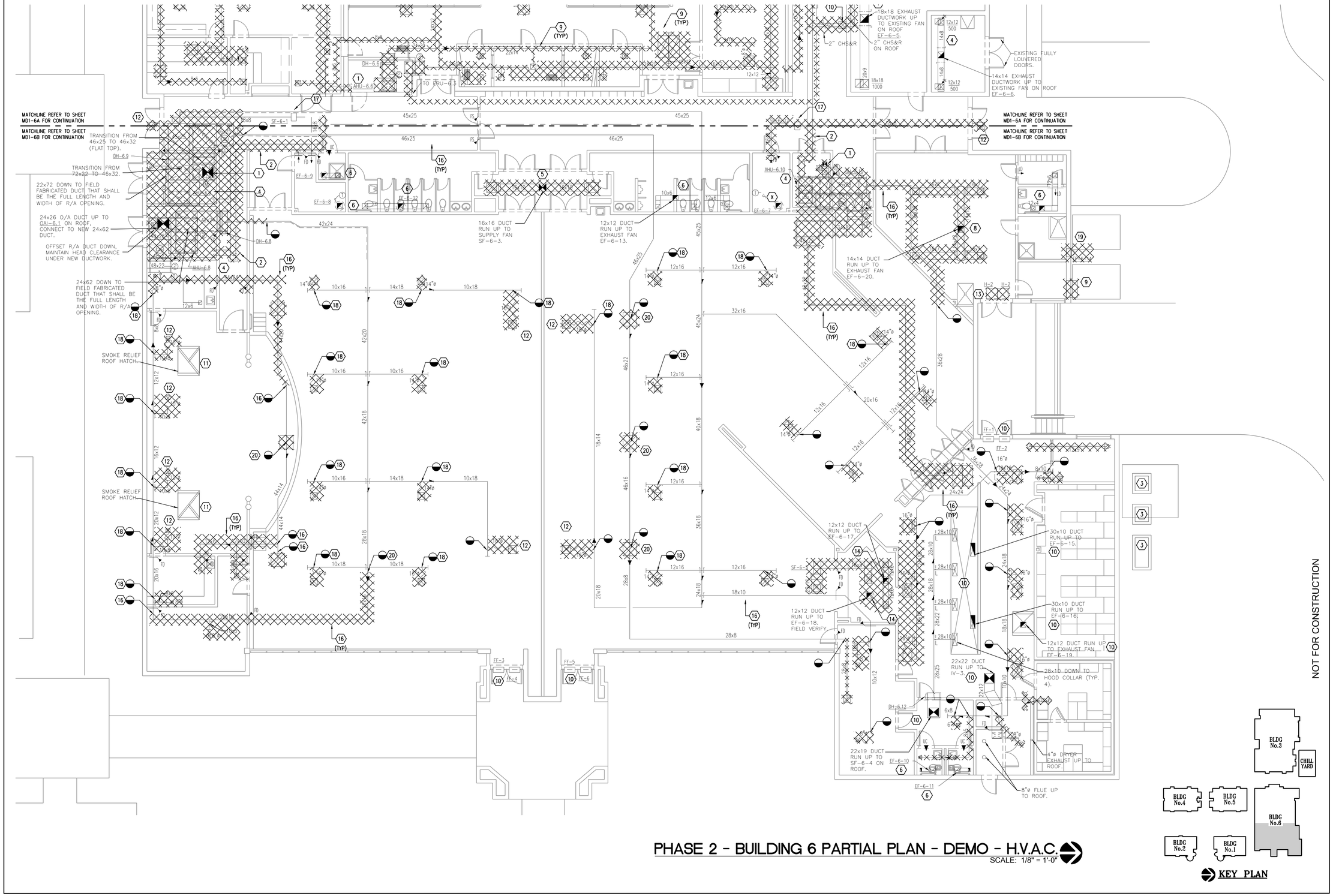

PHASE 2 - BUILDING 6 PARTIAL PLAN - DEMO - H.V.A.C.

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

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3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

JASON L. SMITH, P.E.
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MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
PHASE 2 - BUILDING 6 PARTIAL PLAN - DEMO - H.V.A.C.

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	ML/RB
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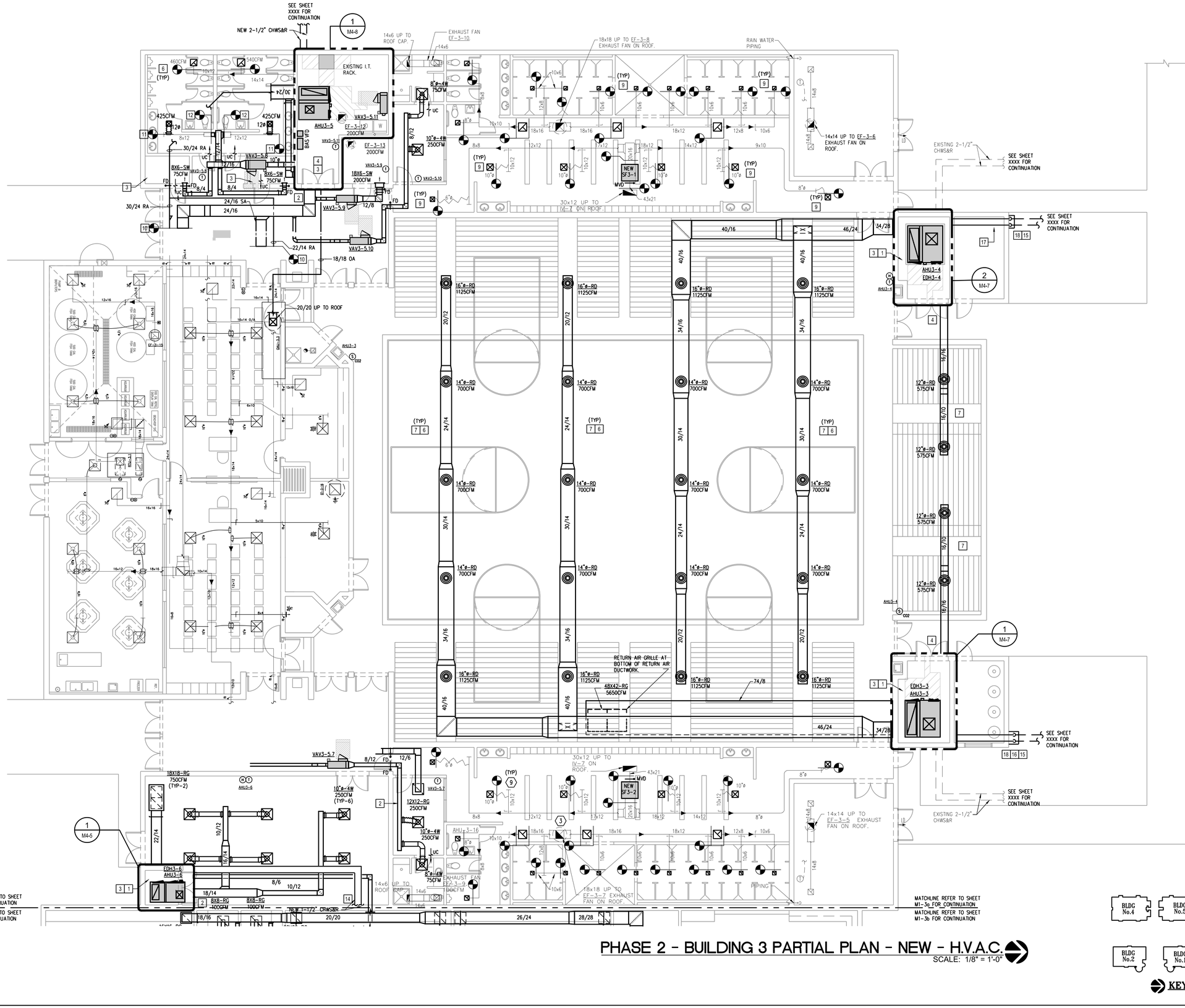

PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - H.V.A.C.

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

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No.	Date	Description

Client: St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - H.V.A.C.

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	ML/RB
Checked By:	JLS
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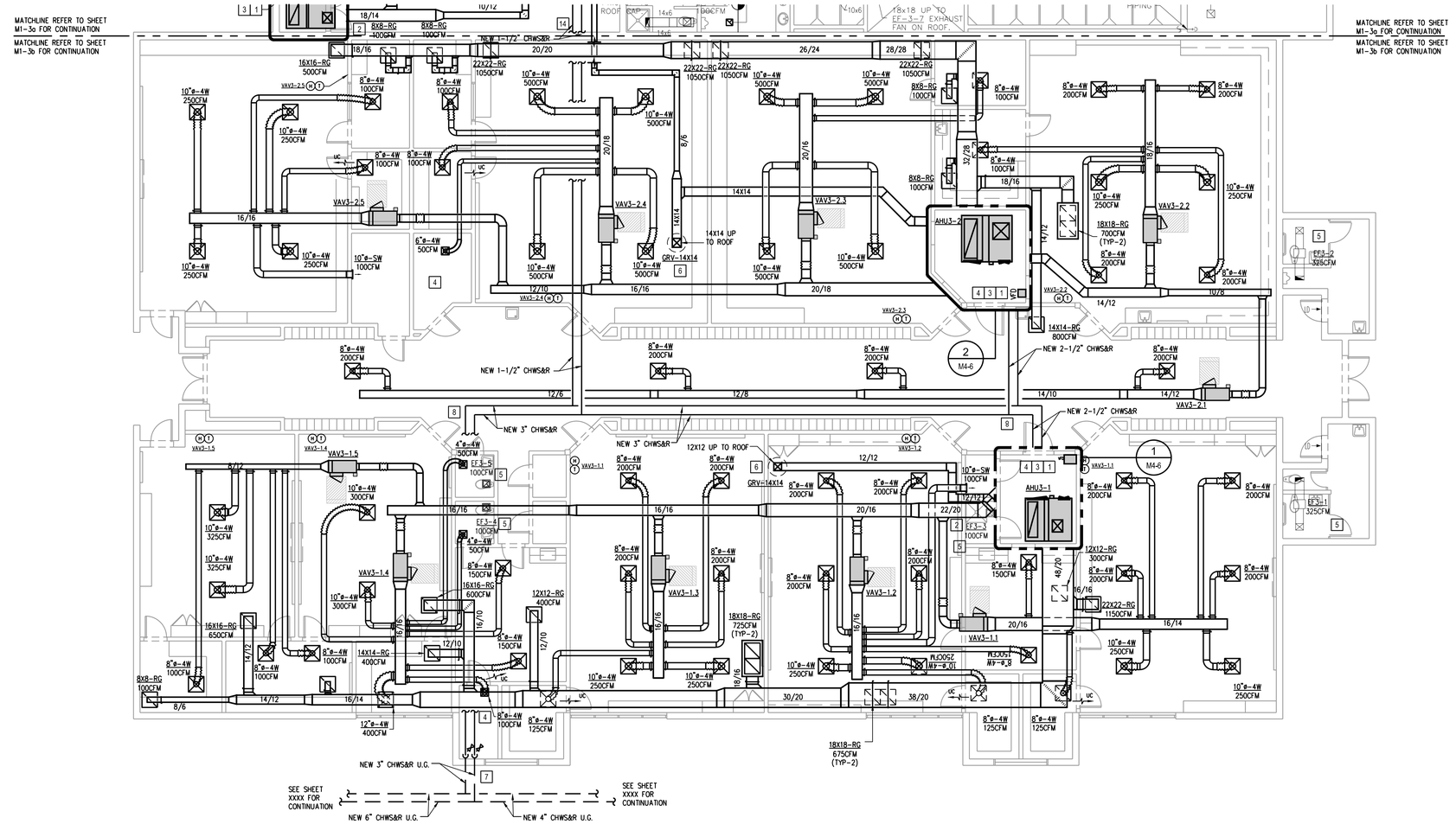
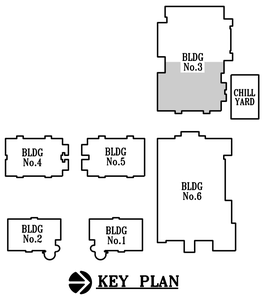


PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - H.V.A.C.

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



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MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - H.V.A.C.

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	ML/RB
Checked By:	JLS
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-M1-3B.DWG

Drawing Number:

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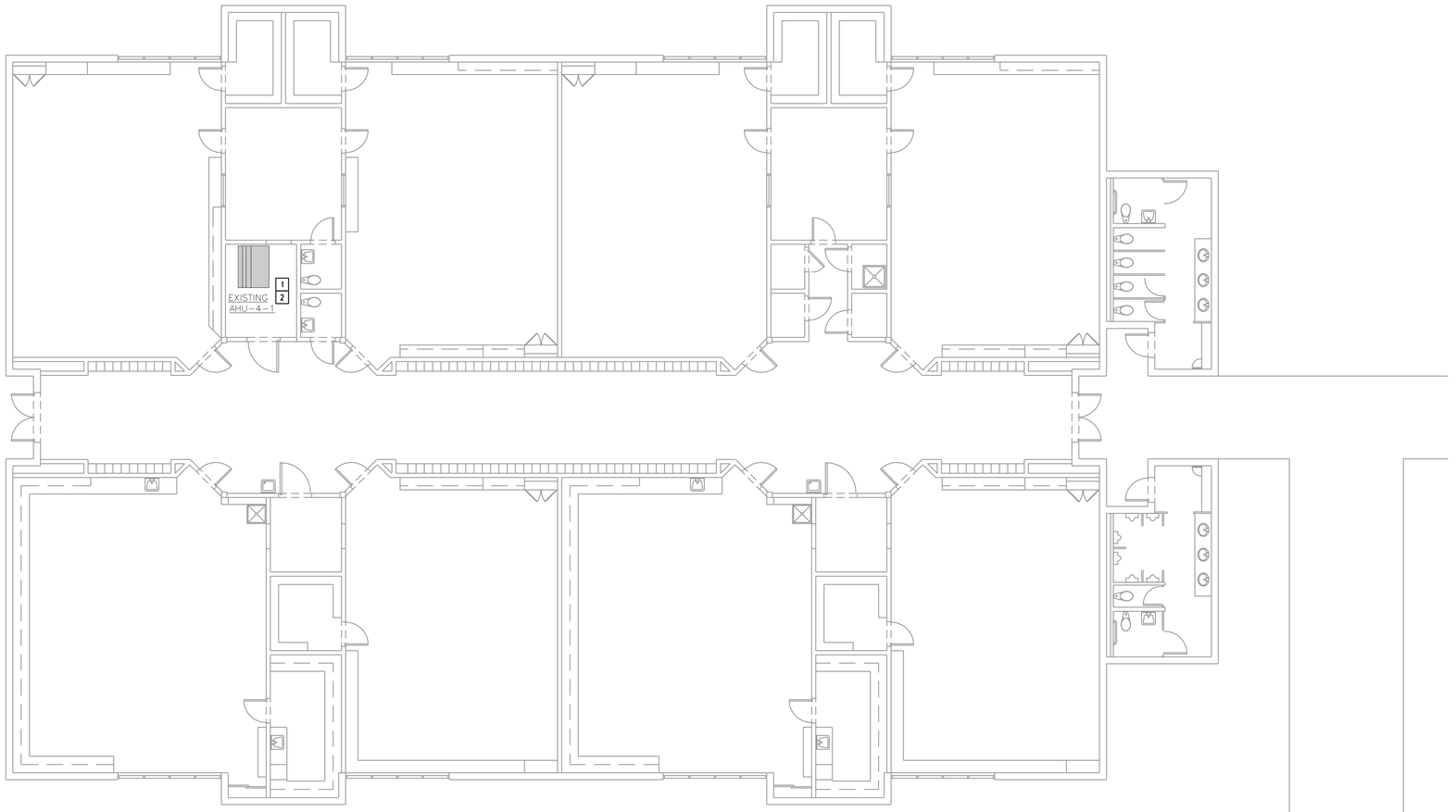
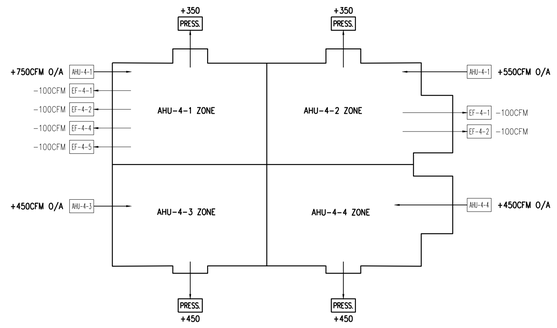
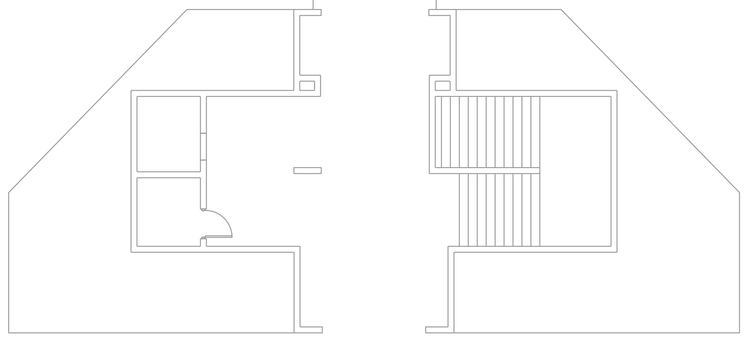
H.V.A.C. KEYNOTES [X]:

1. PROVIDE EXISTING AHU WITH PLASMA AIR BIPOLAR IONIZATION. SEE AIR PURIFICATION DEVICE SCHEDULE.
2. REBALANCE OUTSIDE AIR TO MATCH AIR FLOWS ON AIR BALANCE DIAGRAM.



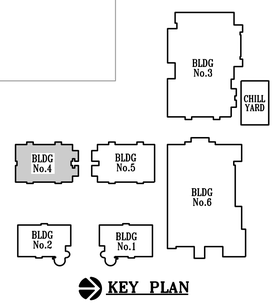


AIR BALANCE DIAGRAM FIRST AND SECOND FLOOR - BLDG. 4
SCALE: NTS



NOT FOR CONSTRUCTION

PHASE 2 - BUILDING 4 1ST FLOOR PLAN - NEW - H.V.A.C.
SCALE: 1/8" = 1'-0"



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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
PHASE 2 - BUILDING 4
1ST FLOOR PLAN - NEW -
H.V.A.C.

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	ML/RB
Checked By:	JLS
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-M1-4A.DWG

Drawing Number:

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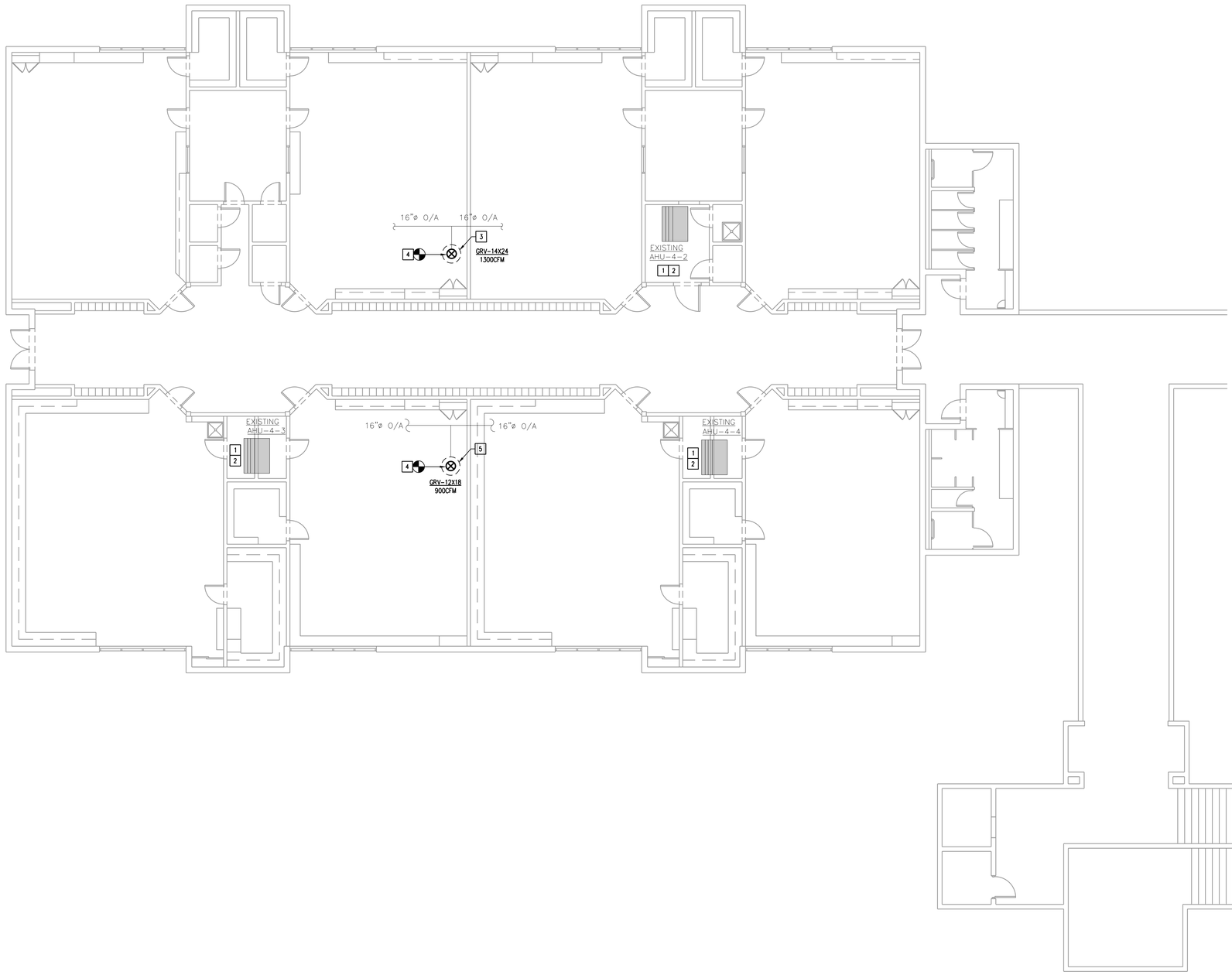


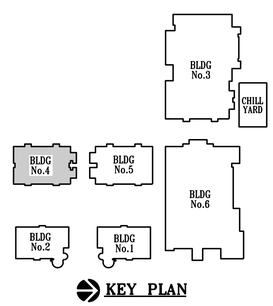
H.V.A.C. KEYNOTES [X]:

1. PROVIDE EXISTING AHU WITH PLASMA AIR BIPOLAR IONIZATION. SEE AIR PURIFICATION DEVICE SCHEDULE.
2. REBALANCE OUTSIDE AIR TO MATCH AIR FLOWS ON AIR BALANCE DIAGRAM ON SHEET M1-4A.
3. EXISTING OPENING SHALL BE REUSED. PROVIDE NEW GRAVITY VENTILATOR MOUNTED ON NEW INSULATED CURB CAP. GRAVITY VENTILATOR EQUAL TO GREENHECK MODEL FGI 14X24.
4. CONNECT EXISTING OUTSIDE AIR DUCTWORK TO NEW GRAVITY VENTILATOR.
5. EXISTING OPENING SHALL BE REUSED. PROVIDE NEW GRAVITY VENTILATOR MOUNTED ON NEW INSULATED CURB CAP. GRAVITY VENTILATOR EQUAL TO GREENHECK MODEL FGI 12X18.

NOT FOR CONSTRUCTION

PHASE 2 - BUILDING 4 2ND FLOOR PLAN - NEW - H.V.A.C.

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



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FORT PIERCE, FL 34981

Seal:

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600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
PHASE 2 - BUILDING 4
2ND FLOOR PLAN - NEW -
H.V.A.C.

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	ML/RB
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File Date:	4/19/2019
File Name:	22103P2-M1-4B.DWG

Drawing Number:

P2-M1-4b

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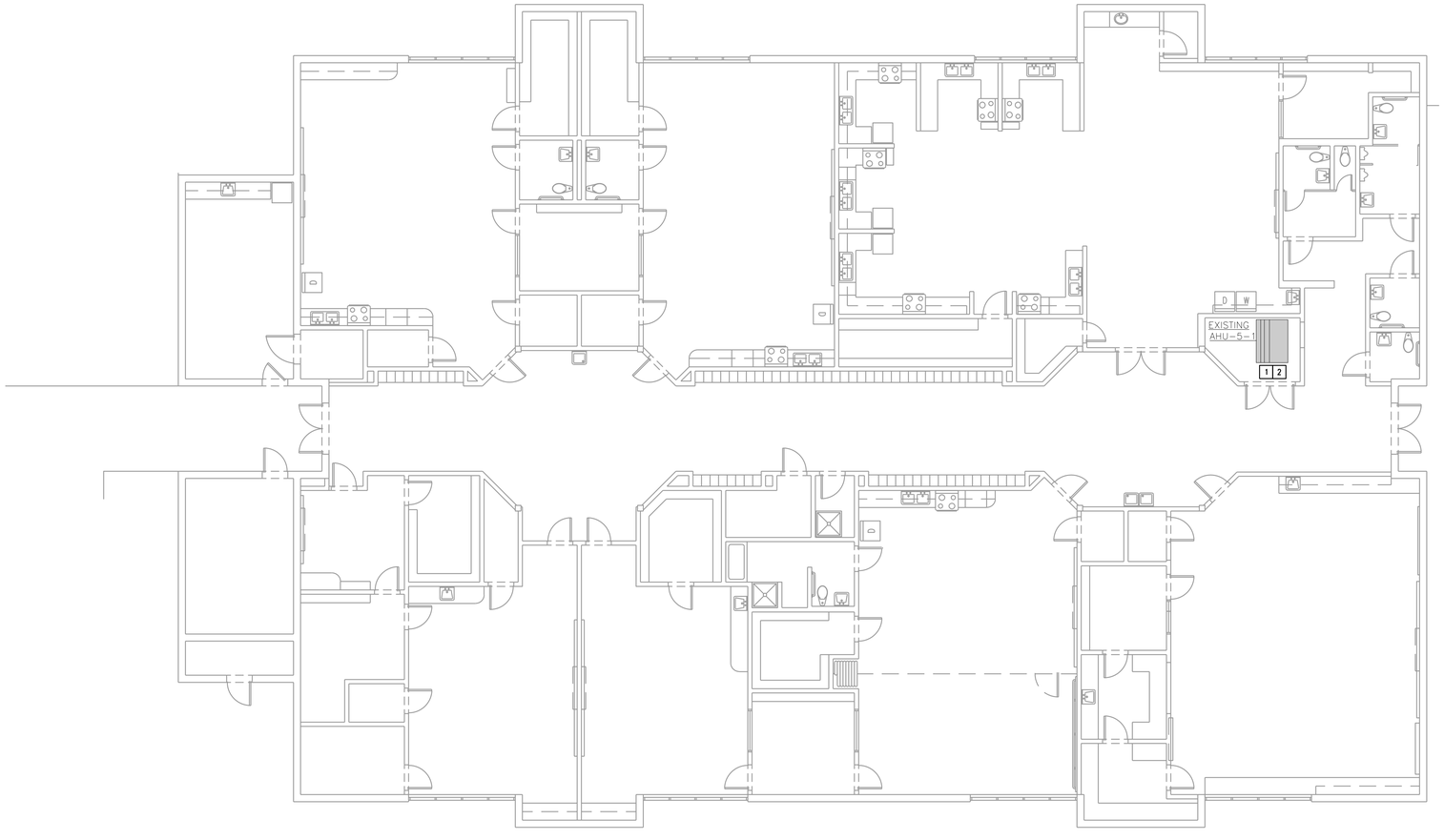
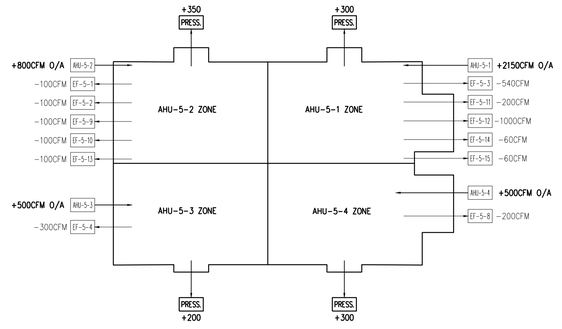
H.V.A.C. KEYNOTES [X]:

1. PROVIDE EXISTING AHU WITH PLASMA AIR BIPOLAR IONIZATION. SEE AIR PURIFICATION DEVICE SCHEDULE.
2. REBALANCE OUTSIDE AIR TO MATCH AIR FLOWS ON AIR BALANCE DIAGRAM.

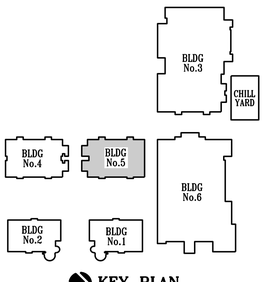




AIR BALANCE DIAGRAM FIRST AND SECOND FLOOR - BLDG. 5
SCALE: NTS

NOT FOR CONSTRUCTION

PHASE 2 - BUILDING 5 1ST FLOOR PLAN - NEW - H.V.A.C.
SCALE: 1/8" = 1'-0"



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MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
PHASE 2 - BUILDING 5
1ST FLOOR PLAN - NEW -
H.V.A.C.

Date:	08/26/2022
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Drawing Number:

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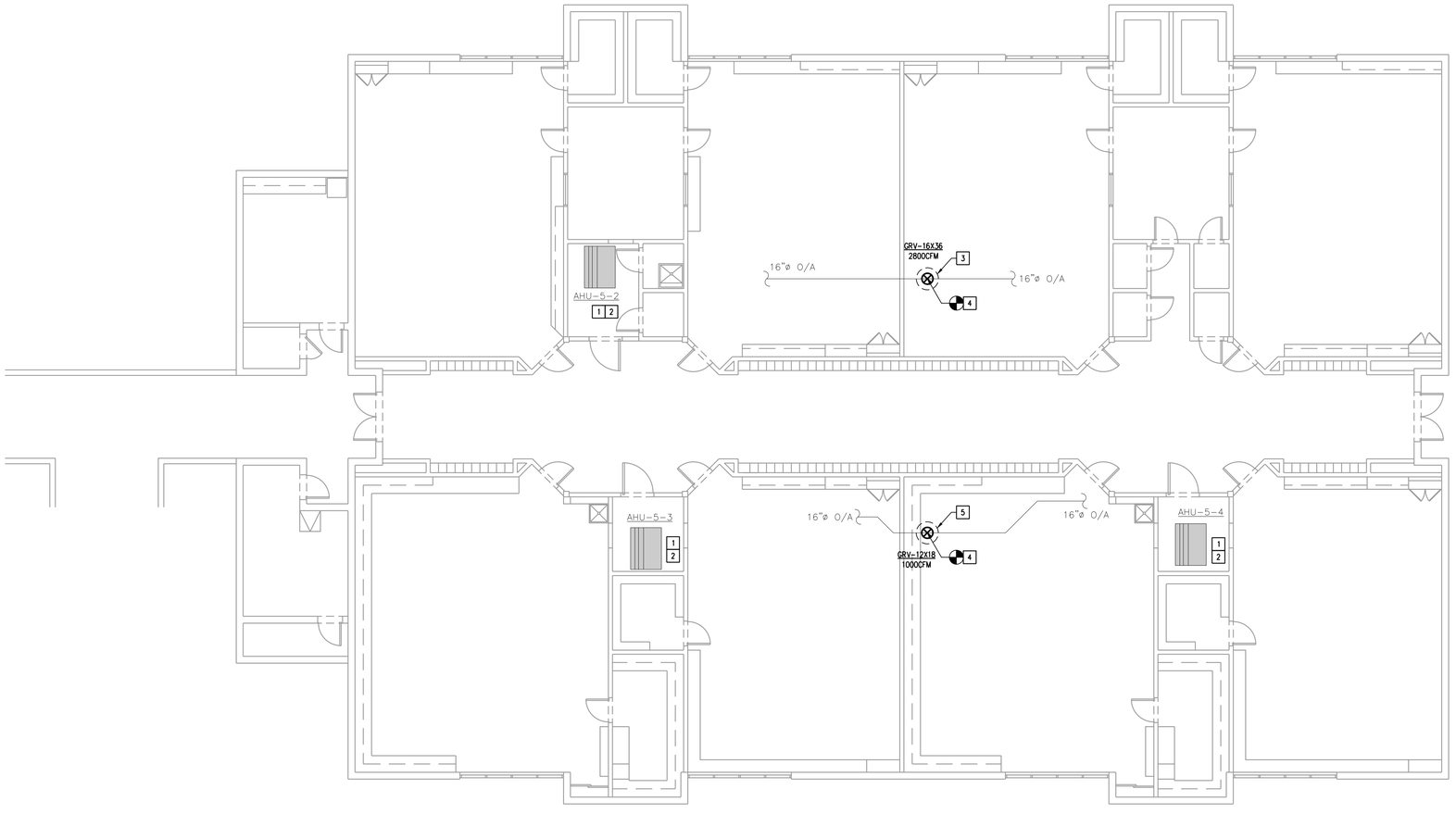


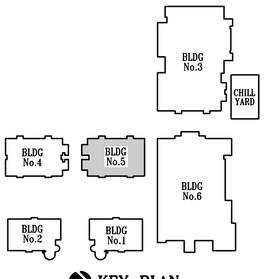
H.V.A.C. KEYNOTES [X]:

1. PROVIDE EXISTING AHU WITH PLASMA AIR BIPOLAR IONIZATION. SEE AIR PURIFICATION DEVICE SCHEDULE.
2. REBALANCE OUTSIDE AIR TO MATCH AIR FLOWS ON AIR BALANCE DIAGRAM ON SHEET M1-4A.
3. EXISTING OPENING SHALL BE REUSED. PROVIDE NEW GRAVITY VENTILATOR MOUNTED ON NEW INSULATED CURB CAP. GRAVITY VENTILATOR EQUAL TO GREENHECK MODEL FGI 16X36.
4. CONNECT EXISTING OUTSIDE AIR DUCTWORK TO NEW GRAVITY VENTILATOR.
5. EXISTING OPENING SHALL BE REUSED. PROVIDE NEW GRAVITY VENTILATOR MOUNTED ON NEW INSULATED CURB CAP. GRAVITY VENTILATOR EQUAL TO GREENHECK MODEL FGI 12X18.

PHASE 2 - BUILDING 5 2ND FLOOR PLAN - NEW - H.V.A.C.

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

NOT FOR CONSTRUCTION



KEY PLAN

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www.ociassociates.com

No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE57743

Sheet Title:
PHASE 2 - BUILDING 5
2ND FLOOR PLAN - NEW -
H.V.A.C.

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	ML/RB
Checked By:	JLS
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-M1-5B.DWG

Drawing Number:

P2-M1-5b

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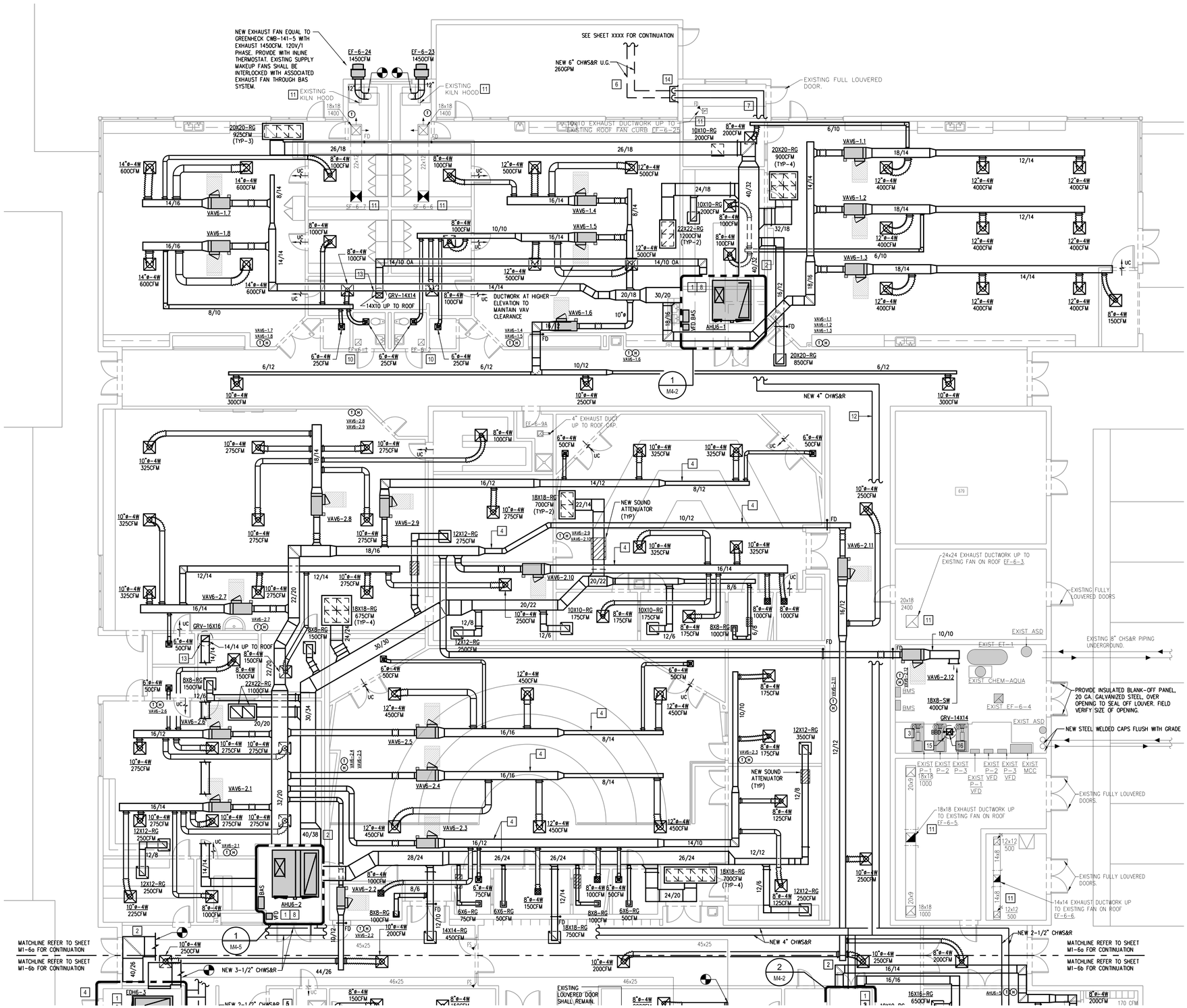

PHASE 2 - BUILDING 6 PARTIAL PLAN - NEW - H.V.A.C.

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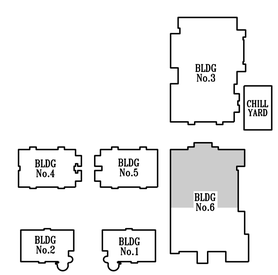

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FL. REG. NO.: PE57743

Sheet Title:
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Drawn By:	ML/RB
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Drawing Number:

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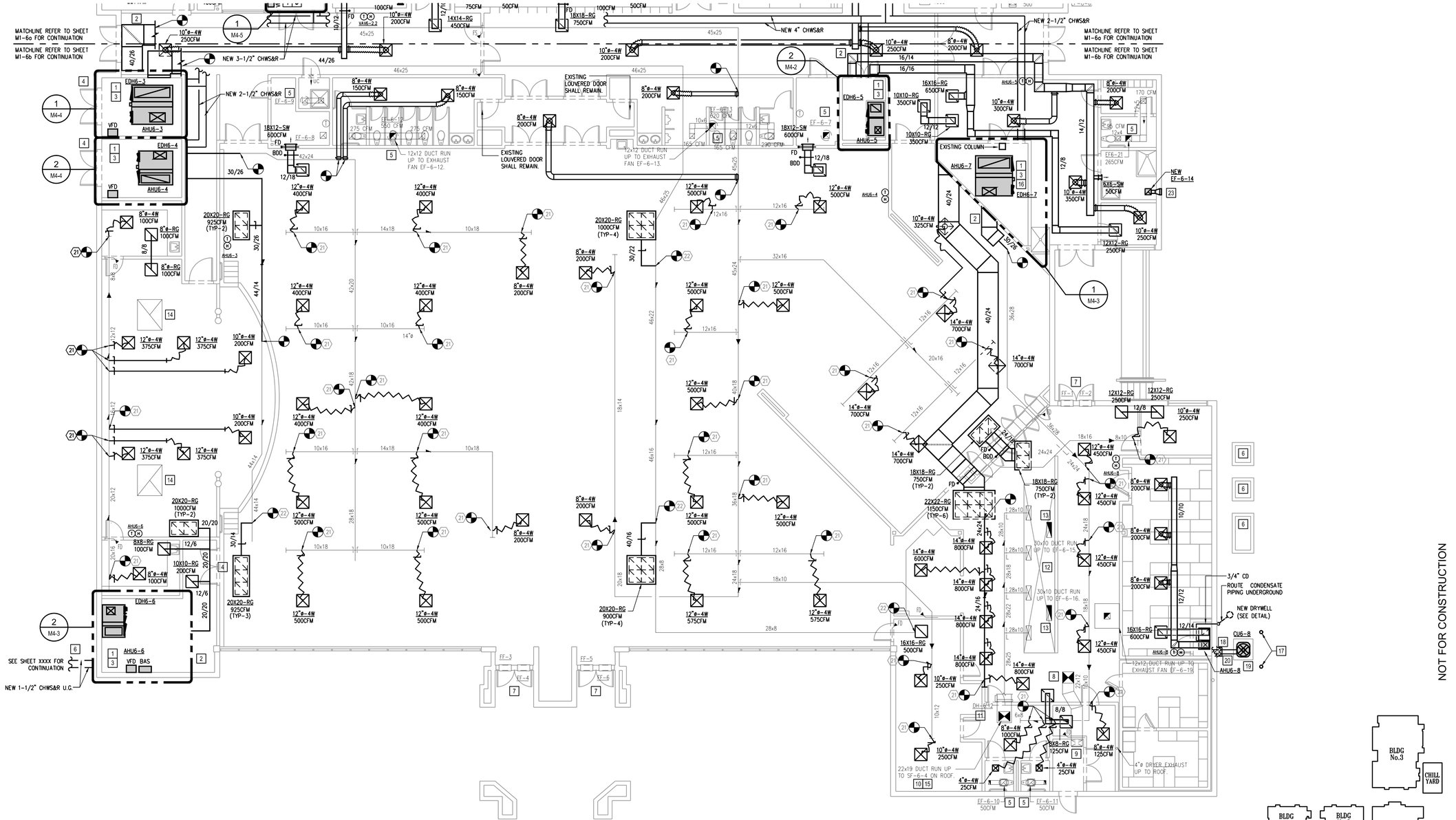

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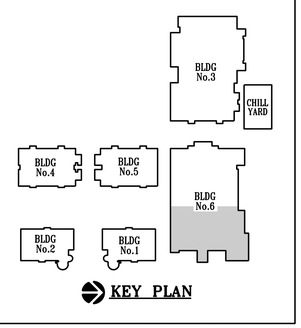
SCALE: 1/8" = 1'-0"



KEY PLAN

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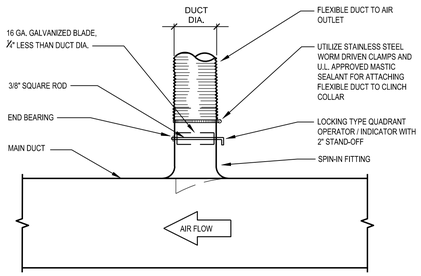
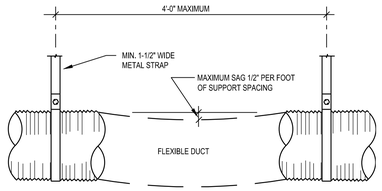


1 M5-1 TYPICAL SPIN-IN BRANCH CONNECTION

NTS

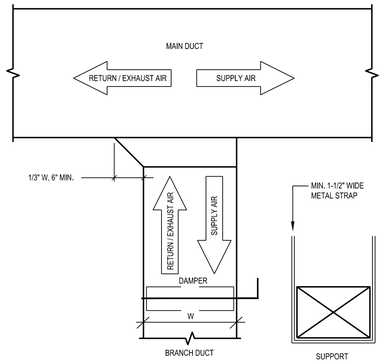


NOTES:

1. DUCT SHOULD EXTEND STRAIGHT FOR SEVERAL INCHES FROM A CONNECTION BEFORE BENDING.
2. SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE.

2 M5-1 FLEX DUCT SUPPORT

NTS

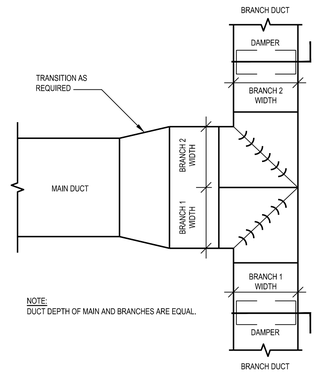


NOTE:

1. ALL LOW PRESSURE BRANCH DUCTS SHALL BE SUPPLIED WITH A MANUAL VOLUME DAMPER FOR BALANCING.
2. AIR FLOW ARROWS ABOVE INDICATE NEGATIVE (RETURN OR EXHAUST) OR POSITIVE AIR FLOW (SUPPLY) TO DELINEATE THE DUCT CONNECTION BOOT ORIENTATION FOR EACH DUCT SYSTEM.

3 M5-1 DAMPER AT SINGLE BRANCH

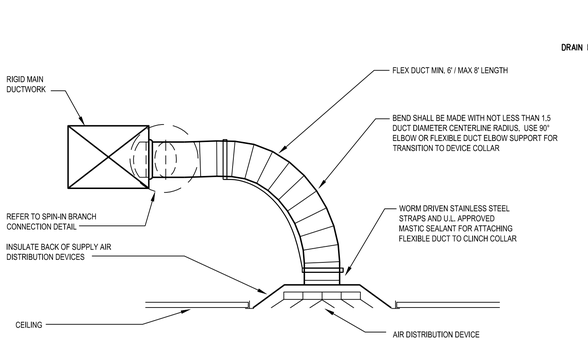
NTS



NOTE:
DUCT DEPTH OF MAIN AND BRANCHES ARE EQUAL.

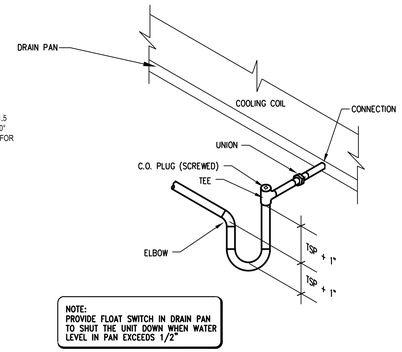
4 M5-1 DUCT WITH SPLITTER DAMPER

NTS



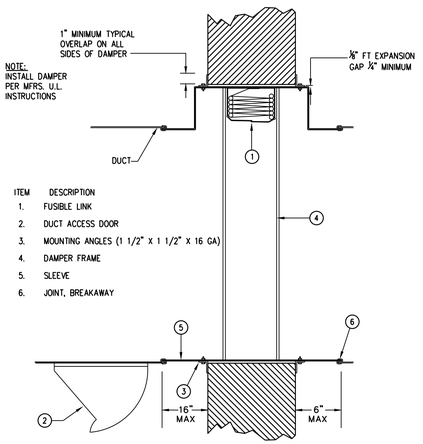
5 M5-1 DIFFUSER AND FLEX DUCT DETAIL

NTS



6 M5-1 CONDENSATE DRAIN DETAIL

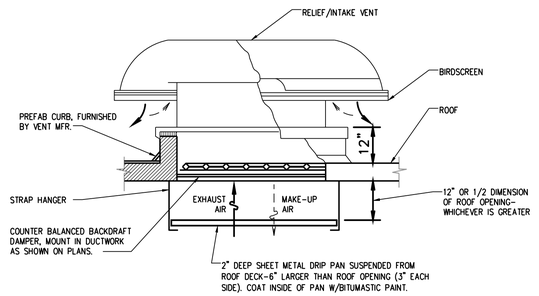
NTS



7 M5-1 FIRE DAMPER DETAIL

U.L. #520

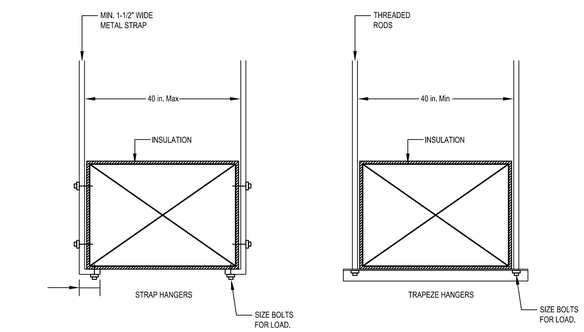
NTS



INSTALLATION DETAIL BASED ON GREENHECK MODEL FCJ/FGR. THE CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS WITH THE MANUFACTURER AND INSURE THE INSTALLATION MEETS THE CRITERIA REQUIRED FOR THE 150 MPH WIND LOAD AND IMPACT RATING REQUIRED.

8 M5-1 ROOF EXHAUST/INTAKE HOOD

NTS



NOTE:

1. DUCTWORK STRAP OR TRAPEZE HANGERS SHALL NOT BE COVERED BY DUCTWORK INSULATION.

9 M5-1 DUCTWORK SUPPORTS

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DETAILS - H.V.A.C.

SCALE: NTS

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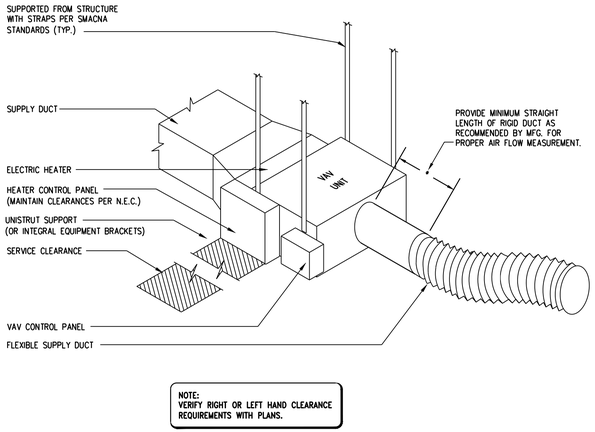
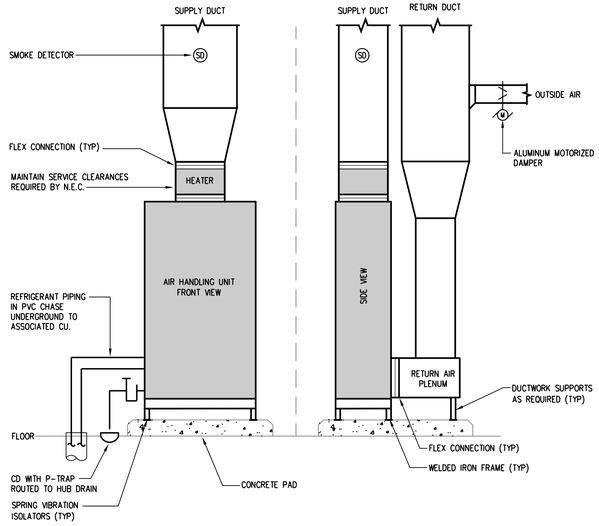
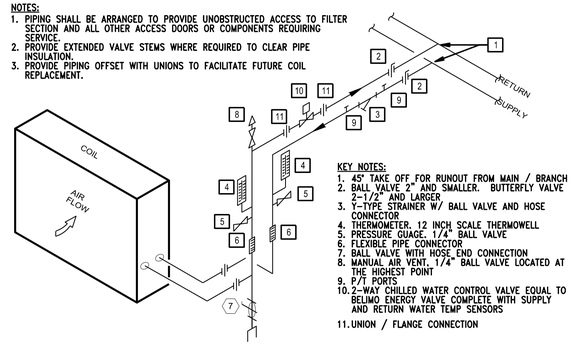


1 M5-2 VAV UNIT INSTALLATION DETAIL
NTS



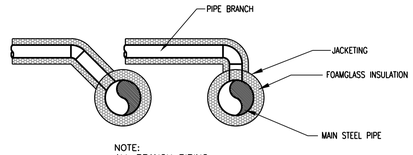
2 M5-2 AHU DX CV SPLIT SINGLE ZONE DETAIL
NTS

NOTES:
1. PIPING SHALL BE ARRANGED TO PROVIDE UNOBSTRUCTED ACCESS TO FILTER SECTION AND ALL OTHER ACCESS DOORS OR COMPONENTS REQUIRING SERVICE.
2. PROVIDE EXTENDED VALVE STEMS WHERE REQUIRED TO CLEAR PIPE INSULATION.
3. PROVIDE PIPING OFFSET WITH UNIONS TO FACILITATE FUTURE COIL REPLACEMENT.



KEY NOTES:
1. 45° TAKE OFF FOR RUNOUT FROM MAIN / BRANCH
2. BALL VALVE 2" AND SMALLER. BUTTERFLY VALVE 2-1/2" AND LARGER
3. Y-TYPE STRAINER W/ BALL VALVE AND HOSE CONNECTOR
4. THERMOMETER. 12 INCH SCALE THERMOWELL
5. PRESSURE GUAGE. 1/4" BALL VALVE
6. FLEXIBLE PIPE CONNECTOR
7. BALL VALVE WITH HOSE END CONNECTION
8. MANUAL AIR VENT. 1/4" BALL VALVE LOCATED AT THE HIGHEST POINT
9. P/T PORTS
10. 2-WAY CHILLED WATER CONTROL VALVE EQUAL TO BELIMO ENERGY VALVE COMPLETE WITH SUPPLY AND RETURN WATER TEMP SENSORS
11. UNION / FLANGE CONNECTION

3 M5-2 2-WAY CONTROL VALVE DETAIL
NTS



4 M5-2 CHILLED WATER BRANCH PIPING DETAIL
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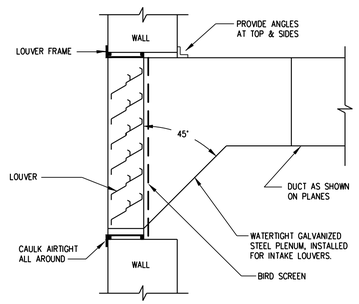

5 M5-2 WALL LOUVER DETAIL
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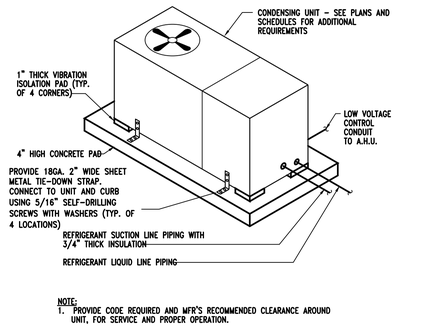

6 M5-2 CONDENSING UNIT SUPPORT DETAIL
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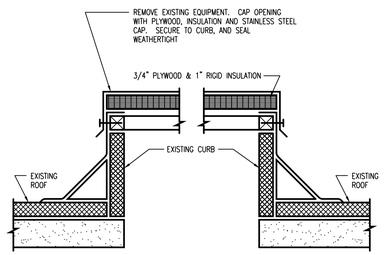

7 M5-2 ROOF CURB CAP DETAIL
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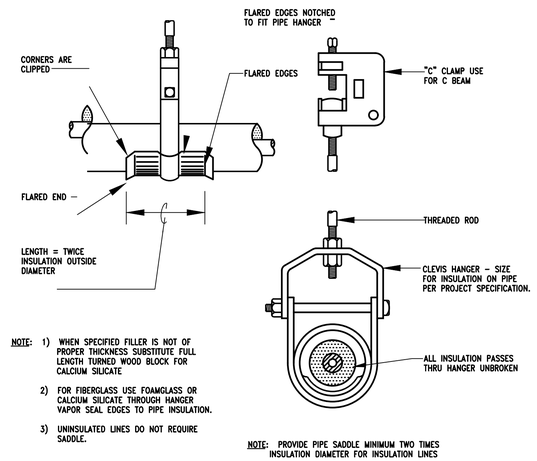

8 M5-2 PIPE HANGER / SUPPORT DETAIL
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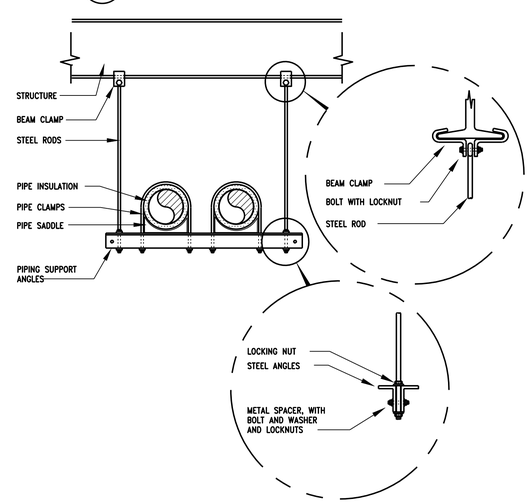
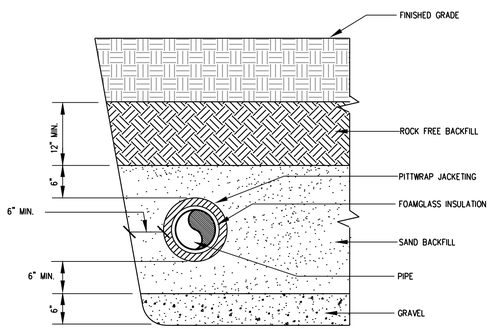


9 M5-2 TRAPEZE PIPE SUPPORT DETAIL
NTS



10 M5-2 UNDERGROUND CHILLED WATER PIPING INSTALLATION DETAIL
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DETAILS – H.V.A.C.
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AIR HANDLING UNIT SCHEDULE (SPLIT SYSTEM)

			MARK	AHU2-2 / CU2-2	AHU6-8 / CU6-8
			AREA SERVED	READING ROOM	DRY STORAGE
			AIR FLOW (CFM)	1600	600
			OUTSIDE AIR (CFM)	0	0
			TONNAGE	4	1.5
INDOOR UNIT	FAN DATA		AIR FLOW (CFM)	1430	600
			ESP (IN H20)	1.5	1.5
			FAN SPEED (RPM)	1050	1050
			HP [WATTS]	0.75	0.33
			FAN (FLA)	6	2.8
	HEATER				
			HEATING TYPE	COOLING ONLY	COOLING ONLY
			HEATING OUTPUT (KW)	-	-
			# OF STAGES	-	-
			MCA	8	4
			MOCP	15	15
			VOLTAGE/PHASE	208/1	208/1
			WEIGHT (LBS.)	166	120
			ENTERING AIR TEMP (WB)	67	67
			LEAVING AIR TEMP (DB)	55	55
			LEAVING AIR TEMP (WB)	54	54
			TOTAL CAPACITY (MBH)	49.5	19
			SENSIBLE CAPACITY (MBH)	36.6	14.1
OUTDOOR UNIT	CONDENSERS				
			QUANTITY OF FANS	1	1
			FLA (EACH.)	0.6	0.7
	COMPRESSORS				
			QUANTITY	1	1
			RLA (EACH)	6.4	6.7
			LRA (EACH)	41	38.6
			MCA	8	12
			MOCP	15	20
			VOLTAGE/PHASE	460/3	208/1
			WEIGHT (LBS.)	203	165
EFFICIENCY RATINGS			EER	12	12
DESIGN BASIS					
INDOOR UNIT			MANUFACTURER	TRANE	TRANE
			MODEL	GAM5A0C48M41SA	GAM5A0A18M11EA
OUTDOOR UNIT			MANUFACTURER	TRANE	TRANE
			MODEL	4TTA3048	4TTR3018
			NOTES	ALL	ALL

NOTES:	
1	PROVIDE WITH WALL MOUNTED, 7-DAY DIGITAL PROGRAMMABLE THERMOSTAT WITH CLEAR LOCKABLE COVER, INTERGRATION TO BAS IS REQUIRED.
2	COORDINATE REFRIGERANT PIPING LENGTH WITH MANUFACTURER.
3	PROVIDE WITH ALL REQUIRED ACCESSORIES FOR SPECIFIC INSTALLATION.
4	PROVIDE WITH SINGLE POINT CONNECTION FOR ELECTRIC HEATER AND FAN FOR INDOOR UNIT.
5	UNIT SHALL HAVE FULL ECONOMIZER FUNCTION DRY BULB SENSOR
6	PROVIDE WITH SMOKE DETECTORS IN SUPPLY AND RETURN DUCTWORK TO SHUT THE UNIT DOWN UNDER ALARM CONSITION AS REQUIRED BY LOCAL/STATE CODES.
7	SINGLE ZONE VAV SYSTEM WITH INTEGRATED VFD ON SUPPLY FAN. PROVIDE WITH ALL ACCESSORIES REQUIRED FOR PROPER OPERATION DOWN TO 38% OF TOTAL CAPACITY/AIRFLOW.
8	PROVIDE AIR FLOW MEASURING STATION IN OUTSIDE AIR DUCT EQUAL TO EBTRON GOLD SERIES FOR OUTSIDE AIR FLOW MONITORING AND CONTROL.
9	PROVIDE WITH INTEGRAL CONDENSAT PUMP AS REQUIRED.
10	CONDENSING UNIT COILS SHALL HAVE SEA COAST COATING
General:	
	EACH AIR HANDLER AND ASSOCIATED CONDENSING UNIT SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE SHOWING SPECIFIC UNIT DESIGNATION.
	PROVIDE WITH FACTORY INSTALLED THERMAL EXPANSION VALVE.
	PROVIDE WITH FACTORY INSTALLED CONDENSATE FLOAT SWITCHES.
	THERMOSTATS SHALL BE WIRED TO DISABLE "FAN ONLY" MODE OF OPERATION.

AIR DISTRIBUTION DEVICE SCHEDULE

MARK/LEGEND	TYPE	MANUFACTURER	MODEL	NOTES
NECK SIZE 10"Ø-4W THROW AIR QUANTITY 300CFM	CEILING MOUNTED SQUARE SUPPLY DIFFUSER	PRICE	ASCD	1,2,4,5,6,7
NECK SIZE 8X8-SW THROW AIR QUANTITY 200CFM	SIDEWALL MOUNTED RECTANGULAR SUPPLY DIFFUSER	PRICE	620D	1,6
NECK SIZE 8X8-RG THROW AIR QUANTITY 300CFM	CEILING OR SIDEWALL RETURN AIR GRILLE	PRICE	630	1,2,3,4,5,6
NECK SIZE 10"Ø-RG AIR QUANTITY 300CFM	CEILING MOUNTED ROUND SUPPLY DIFFUSER	PRICE	RCD	1,5,6
NECK SIZE 8X8-EG THROW AIR QUANTITY 300CFM	CEILING MOUNTED EXHAUST AIR GRILLE	PRICE	630	1,5
NECK SIZE 10"Ø-4W THROW AIR QUANTITY 300CFM	CEILING MOUNTED SQUARE SUPPLY DIFFUSER	PRICE	630	10
LOUVER SIZE 24X24-OAL	WALL MOUNTED OUTSIDE AIR LOUVER	GREENHECK	EHV-901D	6,8,10
LOUVER SIZE 24X24-EL	WALL MOUNTED EXHAUST DISCHARGE LOUVER	GREENHECK	EHV-901D	6,8,10

NOTES:

1 PROVIDE WITH OPPOSED BLADE VOLUME DAMPER.

2 PROVIDE 24X24 FULLY LOUVERED FACE LAYIN MODULE WHERE LOCATED IN LAYIN CEILING.

3 NECK SIZE IS 22X22 UNLESS NOTED OTHERWISE ON FLOOR PLANS.

4 PROVIDE SQUARE TO ROUND NECK TRANSITION WHERE APPLICABLE.

5 COORDINATE BORDER TYPES WITH ARCHITECTURAL FLOOR PLAN AND REFLECTED CEILING PLAN.

6 COORDINATE FINISH WITH ARCHITECT.

7 COORDINATE THROW PATTERN WITH FLOOR PLANS.

8 PROVIDE COMPLETE WITH WALL SLEEVE AND BIRDSCREEN.

9 PRIME AND PAINT TO MATCH ADJACENT SURFACES.

10 LOUVER SHALL HAVE FLORIDA PRODUCT APPROVAL FOR WIND LOAD, AMCA 550 AND MUST BE INSTALLED IN ACCORDANCE WITH ITS REQUIREMENTS.

DUCT HEATER SCHEDULE

MARK	SERVES	AIRFLOW	ELECTRICAL KW	ELECTRICAL STAGES	ELECTRICAL V/PH	DUCT SIZE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	NOTES
EDH3-3	AHU3-3	8700	50	2	480/3	34 X 28	INDEECO	QUA	1 ,2, 3, 4
EDH3-4	AHU3-4	8700	50	2	480/3	34 X 28	INDEECO	QUA	1 ,2, 3, 4
EDH3-6	AHU3-6	1500	7	2	480/3	18 X 14	INDEECO	QUA	1 ,2, 3, 4
EDH6-3	AHU6-3	9075	45	2	480/3	40 X 26	INDEECO	QUA	1 ,2, 3, 4
EDH6-4	AHU6-4	5000	25	2	480/3	30 X 22	INDEECO	QUA	1 ,2, 3, 4
EDH6-5	AHU6-5	1150	6	2	480/3	16 X 14	INDEECO	QUA	1 ,2, 3, 4
EDH6-6	AHU6-6	2525	12	2	480/3	20 X 20	INDEECO	QUA	1 ,2, 3, 4
EDH6-7	AHU6-7	6925	35	2	480/3	40 X 24	INDEECO	QUA	1 ,2, 3, 4

NOTES:

(1) FINNED TUBULAR SLIP IN STYLE DUCT HEATER.
(2) COORDINATE DUCT SIZES WITH DUCT FABRICATION SHOP DRAWINGS PRIOR TO ORDERING.
(3) SCR HEATING CONTROLLER.
(4) HEATER SIZES BASED ON 25 DEGREE ENTERING / 55 DEGREE LEAVING AIR TEMPS.

AIR PURIFICATION DEVICE SCHEDULE

Zone Tag	S/A Flow	Pressure Drop	Voltage	Watts	Mounting	Manufacturing	Model	Notes
AHU-4-1	6,000	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU-4-2	6,000	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU-4-3	5,000	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU-4-4	5,300	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU-5-1	7,200	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU-5-2	6,000	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU-5-3	5,500	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU-5-4	5,300	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8

Notes:
1. Max coil height per 1-BAR=60".If coil height exceeds 60" two I-Mod are required. Field verify existing coil height.
2. Mount IMOD to air inlet side of cooling coil, along top of cooling coil.
3. Unit to include power supply which will accept 24/120/208/240VAC input power.
4. Bi-polar ionization systems requiring perishable glass tubes are not acceptable
5. All manufacturers must pass UL-867-2007 ozone chamber testing by either UL or ETL
6. Provide stand alone ion detector to communicate with the BAS. For each AHU.
7. Ionization bar to have a minimm of 1 needlepoint every 0.75" of coil width.
8. Field verify coil widths.

VENTILATION

OUTDOOR AIRFLOW RATES WERE DETERMINED BASED ON ASHRAE 62.1 2010 UTILIZING THE IAQ PROCEDURE. BIPOLAR IONIZATION SYSTEMS WERE PROVIDED AS AN AIR CLEANING TECHNOLOGY TO ADDRESS ASHRAE 62.1 LISTED CONTAMINANTS OF CONCERN. OUTDOOR AIRFLOW RATES LISTED ARE THE MINIMUM FOR EACH OCCUPIED SPACE.

MINIMUM CFM OF OUTDOOR AIR PER PERSON	5

Duct Construction Schedule

Service	SMACNA Pressure Class	Material	Insulation	Notes
Supply Air Ducts				
From AHU connection to 20 feet downstream on supply side for VAV systems or exposed VAV supply beyond 20 feet.	+ 4"	Doublewall round / flat oval or rectangular complete with perforated inner liner and mylar film separating insulation from air stream	1" thick internally lined	(1)(2)
From 20 feet downstream of AHU to terminal unit for VAV systems where duct is concealed above ceilings	+ 4"	Single wall sheet metal round / flat oval or rectangular	Concealed - 2" thick external wrap Exposed - 1-1/2" rigid board	(1)
From AHU connection to 20 feet downstream on supply side for constant volume systems	+ 2"	Doublewall round / flat oval or rectangular complete with perforated inner liner and mylar film separating insulation from air stream	1" thick internally lined	(1)(2)
From 20 feet downstream of AHU to air distribution devices for constant volume systems	+ 2"	Single wall sheet metal	Concealed - 2" thick external wrap Exposed - 1-1/2" rigid board	(1)
Downstream of VAV terminals	+ 2"	Single wall sheet metal	Concealed - 2" thick external wrap Exposed - 1-1/2" rigid board	(1)
All low pressure exposed ductwork in public areas	+ 2"	Doublewall round complete with perforated inner liner and mylar film separating insulation from air stream	1" thick internally lined	(1)(2)
Return Air Ducts				
From AHU connection to 20 feet upstream on return side for all AHU's and all exposed return air ductwork	- 2"	Doublewall rectangular complete with perforated inner liner and mylar film separating insulation from air stream. Provide round or flat oval as shown on the drawings where ductwork is exposed.	1" thick internally lined	(1)(2)
All other return air ductwork	- 2"	Single wall sheet metal	Concealed - 2" thick external wrap Exposed - 1-1/2" rigid board	(1)
Outside Air Ducts				
All outside air ducts	- 2"	Single wall sheet metal	Concealed - 2" thick external wrap Exposed - 1-1/2" rigid board	(1)
Transfer Air Ducts				
All transfer air ducts	+ 1"	Single wall sheet metal	Concealed - 2" thick external wrap Exposed - 1-1/2" rigid board	(1)
Exhaust Air Ducts				
General bathroom exhaust ducts	- 2"	Single wall sheet metal. Spiral round duct where exposed.		(1)

Notes:
(1) All ductwork is to be fabricated, supported and installed per SMACNA standards.
(2) Refer to Specifications for material to be used for internal lining.

General note:
Where supply, return or outside air ductwork is called to be externally insulated and is exposed in mechanical rooms, blanket duct wrap may be used in lieu of rigid board insulation.

AIR PURIFICATION DEVICE SCHEDULE

Zone Tag	S/A Flow	Pressure Drop	Voltage	Watts	Mounting	Manufacturing	Model	Notes
AHU1-1	9,500	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU2-1	9,545	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU3-1	7,125	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU3-2	7,850	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU3-3	8,700	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU3-4	8,700	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU3-5	6,275	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU3-6	1,500	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU6-1	10,200	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU6-2	14,050	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU6-3	9,075	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU6-4	5,000	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU6-5	1,150	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU6-6	2,525	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8
AHU6-7	6,925	0.05" W.C.	115V	60	COIL	PLASMA AIR	PB	1 to 8

Notes:
1. Install all plasma bars at the air entering side of the cooling coil.
2. ION generators shall be powered from 24V fan control circuit.
3. Only low voltage wiring will be allowed between panel and bar. High voltage will not be accepted.
4. Ionizer shall be UL listed for Standard 867. Listing for any other standard will not be acceptable.
5. Fault reset shall be automatic. Manual fuse replacement will not be acceptable.
6. Ion generator needles shall be recessed. Exposed needles will not be acceptable.
7. If ionizer does not contain an integral feedback function, a separate duct mounted ion sensor shall be provided.
8. Field verify coil widths.

FAN SCHEDULE

MARK	SERVICE	TYPE	FAN DATA CFM	FAN DATA ESP (IN.)	FAN DATA DRIVE	FAN DATA RPM	MOTOR DATA HP [WATTS]	ELETRICAL V/PH	ELETRICAL MOCP	ELETRICAL MCA	ELECTRIC HEATING kW	ELECTRIC HEATING V/PH	ELECTRIC HEATING CONTROL	SOUND DATA SONES/[Db]	WEIGHT (LBS.)	MFG.	MODEL	NOTES
SF3-1	BOYS LOCKER	INLINE	2450	2.25	DIRECT	1810	3	460/3	70	61.1	35	460/3	SCR	27/[76]	999	GREENHECK	MSX-109-H12-II	1, 2, 3, 4, 6
SF3-2	GIRLS LOCKER	INLINE	2450	2.25	DIRECT	1810	3	460/3	70	61.1	35	460/3	SCR	27/[76]	999	GREENHECK	MSX-109-H12-II	1, 2, 3, 4, 6

NOTES
(1) PROVIDE DISCONNECT SWITCH MOUNTED AT THE UNIT.
(2) PROVIDE WITH BACKDRAFT DAMPER.
(3) DIRECT DRIVE HIGH EFFICIENCY DC MOTOR WITH INTEGRAL TRANSFORMER AND SPEED CONTROL DIAL.
(4) PROVIDE WITH MOTORIZED VOLUME DAMPER. FAN AND MOTORIZED DAMPER SHALL BE CONTROLLED THROUGH THE BAS TO OPERATE DURING OCCUPIED MODE AND INTERLOCKED WITH ASSOCIATED AIR HANDLING UNIT VENTILATION SCHEDULE.

SCHEDULES - H.V.A.C.

SCALE: NTS

NOT FOR CONSTRUCTION

OCI ASSOCIATES, INC
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No.	Date	Description

Client: St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
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FL. REG. NO.: PE57743

Sheet Title: SCHEDULES - H.V.A.C.

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	ML/RB
Checked By:	JLS
Project Number:	22103
File Date:	4/19/2019
File Name:	22103M6-1.DWG

Drawing Number:

M6-1

50% CD OWNER REVIEW

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FAN SCHEDULE

MARK	SERVICE	TYPE	FAN DATA				MOTOR DATA		SOUND DATA SONES/[Db]	WEIGHT (LBS.)	MFG.	MODEL	NOTES
			CFM	ESP (IN.)	DRIVE	RPM	HP [WATTS]	V/PH					
EF1-1	109 CUST	CEILING	100										
EF1-2	104A TOILET	CEILING	100										
EF1-3	104B TOILET	CEILING	100										
EF1-4	116 MEN	CEILING	100										
EF1-5	117 WOMEN	CEILING	100										
EF2-1	206 GIRLS	CEILING	100										
EF2-2	205 BOYS	CEILING	100										
EF2-3	207 CUST	CEILING	100										
EF2-4	211 DARK ROOM												
EF3-1	300 GIRLS	INLINE	325										
EF3-2	303 BOYS	INLINE	325										
EF3-3	310	CEILING	100										
EF3-4	326	CEILING	100										
EF3-5	327	CEILING	100										
EF3-6	367 PHYS ED STORAGE	ROOF	810										
EF3-6A	377 PHYS ED STORAGE	ROOF	810										
EF3-7	366B SHOWERS	ROOF	3500										
EF3-8	374 DRYING	ROOF	3500										
EF3-9	362 TOILET	INLINE	325										
EF3-10	371 TOILET	INLINE	325										
EF3-11	360B	CEILING	100										
EF3-12	356 LAUNDRY	ROOF	1440										
EF3-13	356A	ROOF	200										
EF3-14	378A ELEC	ROOF	810										
EF3-15	358B GYM STORAGE	ROOF	200										
EF3-16	358A GYM STORAGE	ROOF	200										
EF4-1	406 MEN	CEILING	100										
EF4-2	407 WOMEN	CEILING	100										
EF4-3	420 CUST	CEILING	100										
EF4-4	456 MEN	CEILING	100										
EF4-5	457 WOMEN	CEILING	100										
EF4-6	470 CUST	CEILING	100										
EF4-7	478 GIRLS	ROOF	500										
EF4-8	428 GIRLS	ROOF	500										
EF4-9	429 BOYS	ROOF	500										
EF4-10	479 BOYS	ROOF	500										
EF5-1	514 TOILET	CEILING	100										
EF5-2	513 TOILET	CEILING	100										
EF5-3	532 GIRLS	ROOF	540										
EF5-4	520 CUST	ROOF	305										
EF5-5	501 ELEC	CEILING	500										
EF5-6	579 ELEC	CEILING	500										
EF5-7	502 OUT STOR	CEILING	150										
EF5-8	520 CUST	ROOF	200										
EF5-9	517 CLASSROOM	ROOF	200										
EF5-10	510 CLASSROOM	ROOF	200										
EF5-11	528 HOME ECONOMICS	ROOF	200										
EF5-12	528 HOME ECONOMICS	ROOF	1000										
EF5-13	556 CUST	CEILING	60										
EF5-14	570 MEN	CEILING	60										
EF5-15	571 WOMEN	CEILING	60										
EF6-1	612 MEN	CEILING	60										
EF6-2	610 WOMEN	CEILING	60										
EF6-3	677 MAIN ELEC	ROOF	2400										
EF6-4	676 MAIN MECH	ROOF	3000										
EF6-5	674 EQUIP STORAGE	ROOF	2000										
EF6-6	675 FLAMMABLE STORAGE	ROOF	1000										
EF6-7	657 ELECTRICAL	ROOF	590										
EF6-8	652 B ELEC	ROOF	590										
EF6-9	652A CUST	CEILING	60										
EF6-9A	621 CUST	CEILING	60										
EF6-10	663B TOILET	CEILING	60										
EF6-11	663C TOILET	CEILING	60										
EF6-12	654 WOMEN	ROOF	550										
EF6-13	656 MEN	ROOF	620										
EF6-14	671 EXTRACTOR & CAN	WALL	315										
EF6-15	661 KITCHEN	ROOF	3900										
EF6-16	661 KITCHEN	ROOF	3900										
EF6-17	660 DISHWASH & DISH DROP	ROOF	640										
EF6-18	660 DISHWASH & DISH DROP	ROOF	350										
EF6-19	661 KITCHEN	ROOF	850										
EF6-20	673 CENTRAL RECEIVING	ROOF	1840										
EF6-21	672B TOILET	ROOF	270										
EF6-22	600 CONSTRUCTION	ROOF	15510										
EF6-23	606 KILN	ROOF	1450										
EF6-24	614 KILN	ROOF	1450										
EF6-25	601 FLAMMABLE STORAGE	ROOF	360										
EF6-26	619 DARK ROOM	CEILING	325										

NOTES

1 PROVIDE DISCONNECT SWITCH MOUNTED AT THE UNIT.
2 PROVIDE WITH BACKDRAFT DAMPER.
3 FAN SHALL BE INTERLOCKED WITH THE LIGHT SWITCH FOR CONTROL WITH 10 MINUTE TIME DELAY.
4 PROVIDE WITH SOLID STATE VARIABLE SPEED CONTROLLER MOUNTED AT THE UNIT.
5 FAN SHALL RUN CONTINUOUSLY
6 FAN SHALL BE INTERLOCKED WITH RTU3-2. FAN SHALL ENERGIZE WHEN RTU3-2 IS ENERGIZED.
7 PROVIDE WITH COMPLETE SYSTEM AS RECOMMENDED BY MANUFACTURE.
8 FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED MODE.
9 FAN SHALL BE CONTROLED WITH THERMOSTATIC LINE VOLTAGE CONTROLS TO TURN ON FAN WHEN TEMPERATURE EXCEEDS SET POINT 80°f (FIELD ADJUSTABLE)
10 DIRECT DRIVE HIGH EFFICIENCY DC MOTOR WITH INTEGRAL TRANSFORMER AND SPEED CONTROL DIAL.
11 FAN SHALL BE INTERLOCKED WITH ASSOCIATED EXISTING SUPPLY MAKE UP FANS THROUGH THE BAS SYSTEM
12 PROVIDE WITH INLINE THERMOSTAT
13 FAN SHALL OPERATE DURING OCCUPIED MODE AND BE TIED TO BAS SYSTEM.

VAV UNIT SCHEDULE

MARK	MANUFACTURER	MODEL NO.	INLET SIZE	PRIMARY AIR CFM		ΔP	ELECTRIC HEATING COIL				NOTES
				MAX.	MIN.		CFM	KW	V/PH	NO. STEPS	
VAV1-1.1	TRANE	VCEF	6	350	87.5	0.18	175	2	277/1	MULTI.	(1)(2)(3)
VAV1-1.2	TRANE	VCEF	10	800	200	0.18	400	4	277/1	MULTI.	(1)(2)(3)
VAV1-1.3	TRANE	VCEF	8	425	106.25	0.18	212.5	2.5	277/1	MULTI.	(1)(2)(3)
VAV1-1.4	TRANE	VCEF	6	325	81.25	0.18	162.5	2	277/1	MULTI.	(1)(2)(3)
VAV1-1.5	TRANE	VCEF	8	650	162.5	0.18	325	3.5	277/1	MULTI.	(1)(2)(3)
VAV1-1.6	TRANE	VCEF	8	750	187.5	0.18	375	4	277/1	MULTI.	(1)(2)(3)
VAV1-1.7	TRANE	VCEF	6	300	75	0.18	150	1.5	277/1	MULTI.	(1)(2)(3)
VAV1-1.8	TRANE	VCEF	6	300	75	0.18	150	1.5	277/1	MULTI.	(1)(2)(3)
VAV1-1.9	TRANE	VCEF	8	475	118.75	0.18	237.5	2.5	277/1	MULTI.	(1)(2)(3)
VAV1-1.10	TRANE	VCEF	10	950	237.5	0.18	475	5	277/1	MULTI.	(1)(2)(3)
VAV1-1.11	TRANE	VCEF	10	825	206.25	0.18	412.5	4	277/1	MULTI.	(1)(2)(3)
VAV1-1.12	TRANE	VCEF	8	625	156.25	0.18	312.5	3	277/1	MULTI.	(1)(2)(3)
VAV1-1.13	TRANE	VCEF	4	150	37.5	0.18	75	1	277/1	MULTI.	(1)(2)(3)
VAV1-1.14	TRANE	VCEF	6	400	100	0.18	200	2	277/1	MULTI.	(1)(2)(3)
VAV1-1.15	TRANE	VCEF	8	600	150	0.18	300	3	277/1	MULTI.	(1)(2)(3)
VAV1-1.16	TRANE	VCEF	8	500	125	0.18	250	2.5	277/1	MULTI.	(1)(2)(3)
VAV1-1.17	TRANE	VCEF	8	625	156.25	0.18	312.5	3	277/1	MULTI.	(1)(2)(3)
VAV1-1.18	TRANE	VCEF	8	500	125	0.18	250	2.5	277/1	MULTI.	(1)(2)(3)
VAV2-1.1	TRANE	VCEF	10	1000	250	0.18	500	5	277/3	MULTI.	(1)(2)(3)
VAV2-1.2	TRANE	VCEF	14	2000	500	0.18	1000	10	277/3	MULTI.	(1)(2)(3)
VAV2-1.3	TRANE	VCEF	14	2000	500	0.18	1000	10	277/3	MULTI.	(1)(2)(3)
VAV2-1.4	TRANE	VCEF	4	150	37.5	0.18	75	1	277/1	MULTI.	(1)(2)(3)
VAV2-1.5	TRANE	VCEF	4	150	37.5	0.18	75	1	277/1	MULTI.	(1)(2)(3)
VAV2-1.6	TRANE	VCEF	8	575	143.75	0.18	287.5	3	277/1	MULTI.	(1)(2)(3)
VAV2-1.7	TRANE	VCEF	8	475	118.75	0.18	237.5	2.5	277/1	MULTI.	(1)(2)(3)
VAV2-1.8	TRANE	VCEF	4	150	37.5	0.18	75	1	277/1	MULTI.	(1)(2)(3)
VAV2-1.9	TRANE	VCEF	8	675	168.75	0.18	337.5	3.5	277/1	MULTI.	(1)(2)(3)
VAV2-1.10	TRANE	VCEF	6	245	61.25	0.18	122.5	1.5	277/1	MULTI.	(1)(2)(3)
VAV2-1.11	TRANE	VCEF	10	825	206.25	0.18	412.5	4	277/1	MULTI.	(1)(2)(3)
VAV2-1.12	TRANE	VCEF	8	600	150	0.18	300	3	277/1	MULTI.	(1)(2)(3)
VAV2-1.13	TRANE	VCEF	8	700	175	0.18	350	3.5	277/1	MULTI.	(1)(2)(3)
VAV3-1.1	TRANE	VCEF	12	1575	393.75	0.18	787.5	7.5	277/3	MULTI.	(1)(2)(3)
VAV3-1.2	TRANE	VCEF	12	1675	418.75	0.18	837.5	8	277/3	MULTI.	(1)(2)(3)
VAV3-1.3	TRANE	VCEF	12	1425	356.25	0.18	712.5	7	277/3	MULTI.	(1)(2)(3)
VAV3-1.4	TRANE	VCEF	12	1500	375	0.18	750	7.5	277/3	MULTI.	(1)(2)(3)
VAV3-1.5	TRANE	VCEF	10	950	237.5	0.18	475	5	277/3	MULTI.	(1)(2)(3)
VAV3-2.1	TRANE	VCEF	10	800	200	0.18	400	4	277/1	MULTI.	(1)(2)(3)
VAV3-2.2	TRANE	VCEF	12	1400	350	0.18	700	7	277/3	MULTI.	(1)(2)(3)
VAV3-2.3	TRANE	VCEF	14	2100	525	0.18	1050	10	277/3	MULTI.	(1)(2)(3)
VAV3-2.4	TRANE	VCEF	14	2250	562.5	0.18	1125	11	277/3	MULTI.	(1)(2)(3)
VAV3-2.5	TRANE	VCEF	12	1300	325	0.18	650	6.5	277/3	MULTI.	(1)(2)(3)
VAV3-5.7	TRANE	VCEF	6	325	81.25	0.18	162.5	2	277/1	MULTI.	(1)(2)(3)
VAV3-5.8	TRANE	VCEF	10	1050	262.5	0.18	525	5	277/3	MULTI.	(1)(2)(3)
VAV3-5.9	TRANE	VCEF	6	200	50	0.18	100	1	277/1	MULTI.	(1)(2)(3)
VAV3-5.10	TRANE	VCEF	6	325	81.25	0.18	162.5	2	277/1	MULTI.	(1)(2)(3)
VAV3-5.11	TRANE	VCEF	8	450	112.5	0.18	225	2.5	277/1	MULTI.	(1)(2)(3)
VAV6-1.1	TRANE	VCEF	12	1200	300	0.18	600	6	277/3	MULTI.	(1)(2)(3)
VAV6-1.2	TRANE	VCEF	12	1200	300	0.18	600	6	277/3	MULTI.	(1)(2)(3)
VAV6-1.3	TRANE	VCEF	12	1350	337.5	0.18	675	6.5	277/3	MULTI.	(1)(2)(3)
VAV6-1.4	TRANE	VCEF	10	1100	275	0.18	550	5.5	277/3	MULTI.	(1)(2)(3)
VAV6-1.5	TRANE	VCEF	10	1250	312.5	0.18	625	6	277/3	MULTI.	(1)(2)(3)
VAV6-1.6	TRANE	VCEF	10	850	212.5	0.18	425	4.5	277/3	MULTI.	(1)(2)(3)
VAV6-1.7	TRANE	VCEF	12	1300	325	0.18	650	6.5	277/3	MULTI.	(1)(2)(3)
VAV6-1.8	TRANE	VCEF	12	1200	300	0.18	600	6	277/3	MULTI.	(1)(2)(3)
VAV6-2.1	TRANE	VCEF	10	1150	287.5	0.18	575	5.5	277/3	MULTI.	(1)(2)(3)
VAV6-2.2	TRANE	VCEF	8	450	112.5	0.18	225	2.5	277/1	MULTI.	(1)(2)(3)
VAV6-2.3	TRANE	VCEF	10	1075	268.75	0.18	537.5	5.5	277/3	MULTI.	(1)(2)(3)
VAV6-2.4	TRANE	VCEF	12	1350	337.5	0.18	675	6.5	277/3	MULTI.	(1)(2)(3)
VAV6-2.5	TRANE	VCEF	12	1450	362.5	0.18	725	7	277/3	MULTI.	(1)(2)(3)
VAV6-2.6	TRANE	VCEF	10	1025	256.25	0.18	512.5	5	277/3	MULTI.	(1)(2)(3)
VAV6-2.7	TRANE	VCEF	12	1650	412.5	0.18	825	8	277/3	MULTI.	(1)(2)(3)
VAV6-2.8	TRANE	VCEF	12	1525	381.25	0.18	762.5	7.5	277/3	MULTI.	(1)(2)(3)
VAV6-2.9	TRANE	VCEF	10	1025	256.25	0.18	512.5	5	277/3	MULTI.	(1)(2)(3)
VAV6-2.10	TRANE	VCEF	12	1200	300	0.18	600	6	277/3	MULTI.	(1)(2)(3)
VAV6-2.11	TRANE	VCEF	10	750	187.5	0.18	375	4	277/1	MULTI.	(1)(2)(3)
VAV6-2.12	TRANE	VCEF	8	400	100	0.18	200	2	277/3	MULTI.	(1)(2)(3)

NOTES:
(1) PROVIDE WITH INTEGRAL STEP DOWN TRANSFORMER FOR CONTROL POWER. COORDINATE VOLTAGE WITH ELECTRICAL CONTRACTOR.
(2) PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
(3) PROVIDE WITH OPTIONAL FUSES.

SCHEDULES - H.V.A.C.
SCALE: NTS

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No.	Date	Description

Client: St. Lucie PUBLIC SCHOOLS

Project Title:
FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:
JASON L. SMITH, P.E.
600 S. ORLANDO AVE.
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FL. REG. NO.: PE57743

Sheet Title:
SCHEDULES - H.V.A.C.

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AIR HANDLING UNIT SCHEDULE (CHILLED WATER)

	MARK	AHU1-1	AHU2-1	AHU3-1	AHU3-2	AHU3-3	AHU3-4	AHU3-5	AHU3-6	AHU6-1	AHU6-2	AHU6-3	AHU6-4	AHU6-5	AHU6-6	AHU6-7
	AREA SERVED	ADMIN	READING ROOM	CLASSROOMS	CLASSROOMS	GYM	GYM	CLASSROOM	WEIGHT ROOM	ART STUDIO	BAND	DINNING ROOM	DINNING ROOM	CENTRAL RECEIVING	ENCLOSED PLATFORM	KITCHEN
	AIR FLOW (CFM)	9500	9545	7125	7850	8700	8700	6275	1500	10200	13250	9075	5000	1150	2525	6925
	OUTSIDE AIR FLOW (CFM)	900	700	800	950	1200	1200	2075	150	720	1040	1875	1950	150	110	1200
FAN DATA	AIR FLOW (CFM)	9500	9545	7125	7850	8700	8700	6275	1500	10200	14050	9075	5000	1150	2525	6925
	ESP (IN H20)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	MOTOR HP (EACH)	10	10	10	7.5	7.5	7.5	7.5	1.5	15	15	10	5	1	3	7.5
	MOTOR RPM	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
	FAN RPM	1739	1805	2581	1622	1650	1650	2298	3118	1814	1389	1758	2070	2764	3198	1846
	VOLTAGE/PHASE	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3
	FAN TYPE	FC	FC	FC	FC	FC	FC	FC	FC	FC	FC	FC	FC	FC	FC	FC
MAIN / RETURN AIR COIL DATA	AIR FLOW (CFM)	9500	9545	7125	7850	7850	8700	6275	1500	10200	14050	9075	5000	1150	2525	6925
	TOTAL CAP (MBH)	352.4	322	272.6	303.9	344.7	344.7	294	49	358	499.9	394.4	261.5	42.5	87.75	275.4
	SENSIBLE CAP (MBH)	260.2	256.7	197.6	219.4	243.2	243.2	197	41	269.2	378.6	278.6	174	32.4	66.9	201.9
	ENTERING AIR DB (°F)	76.9	76.5	77.2	77.4	77.4	77.4	82.02	77	76	76.5	79.9	83.55	77.6	76.1	78.5
	ENTERING AIR WB (°F)	64.3	63.2	64.7	64.8	65	65	67.98	63	63.7	64.1	66.2	68.7	64.3	63.85	65.1
	LEAVING AIR DB (°F)	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
	LEAVING AIR WB (°F)	51	51	51	51	51	51	51.76	51	51	51	51	51	51	51	51
	WATER FLOW (GPM)	50.2	45.8	38.8	43.26	49	49	42	7	50.96	71.2	56.1	37.2	6	12.5	39.2
	EWT (°F)	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
	LWT (°F)	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56
	MIN. NO. OF ROWS	6	6	8	6	6	6	6	6	6	6	6	6	6	6	6
	MAX. FINS PER INCH	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	MAX. WPD (FT)	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
	MAX. FACE VEL. (FPM)	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
	MAX. APD (IN H20)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
FILTER DATA	THICKNESS (IN)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	FILTER EFFICIENCY	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8
	FILTER MID-LIFE APD (IN H20)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
DESIGN BASIS																
	MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
	MODEL	CSAA	CSAA	CSAA	CSAA	CSAA	CSAA	CSAA	CSAA	CSAA	CSAA	CSAA	CSAA	CSAA	CSAA	CSAA
	SIZE	21	21	12	17	21	21	12	4	21	30	21	12	3	6	17
	WEIGHT	2486.6	2481.3	1749	2101.5	2455.6	2455.6	1696	970	2575.2	3397.2	2491.8	1646.8	750.5	1074	2126.6
	NOTES	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL

NOTES:

1	PROVIDE VERTICAL CONFIGURATION UNIT. COORDINATE MODULES SECTIONS AND ACCESS DOORS WITH ENLARGED MECHANICAL ROOMS
2	PROVIDE BASE RAIL HEIGHT AS REQUIRED TO ACCOMMODATE P-TRAP DEPTH WITH 4" THICK CONCRETE HOUSEKEEPING PAD
3	PROVIDE WITH TWO SETS OF REPLACEMENT FILTER MEDIA.
4	PROVIDE WITH BI-POLAR IONIZATION UNITS AT COOLING COIL EQUAL TO GLOBAL PLASMA SOLUTIONS I-MOD WITH I-DETECT UNIT AND FLOW STATION
5	FAN SECTION TO HAVE PERFORATED INTERIOR METAL LINER WITH MYLAR SEPARATION BETWEEN AIR STREAM AND INSULATING MATERIAL.
6	PROVIDE WITH VARIABLE FREQUENCY DRIVE. COORDINATE VFD SIZING WITH FAN QUANTITY AND HORSEPOWER.
8	COORDINATE UNIT CONNECTION CONFIGURATION FOR CHILLED WATER AND CONDENSATE DRAIN WITH THE PLANS.
9	PROVIDE ACCESS DOORS AS INDICATED ON THE PLANS. DOORS TO POSITIVELY PRESSURIZED CABINETS TO HAVE MULTIPLE MOTION SAFETY LATCH.
10	AHU'S AND EF'S TO BE INTERLOCKED

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SCALE: NTS

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MASTER ELECTRICAL SYMBOLS LEGEND

NOTE: THESE ARE STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS. REFER TO SPECIFICATIONS FOR MOUNTING HEIGHTS.

LIGHTING

NOTE:
UPPER CASE LETTER INDICATES FIXTURE TYPE, SEE LIGHTING FIXTURE SCHEDULE AND DRAWINGS. LOWER CASE LETTER INDICATES SWITCH CIRCUIT.
(EM) DENOTES FIXTURE WITH BATTERY BALLAST

- 2X4 LUMINAIRE – CEILING MOUNTED
- 2X4 LUMINAIRE – CEILING MOUNTED, EMERGENCY POWER
- 2X2 LUMINAIRE – CEILING MOUNTED
- 2X2 LUMINAIRE – CEILING MOUNTED, EMERGENCY POWER
- INDUSTRIAL STRIP LUMINAIRE
- INDUSTRIAL STRIP LUMINAIRE – EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- LINEAR LIGHT LUMINAIRE – WALL MOUNTED
- LINEAR LIGHT LUMINAIRE – WALL MOUNTED, EMERGENCY POWER
- DOWNLIGHT LUMINAIRE – RECESSED
- DOWNLIGHT LUMINAIRE – SURFACE MOUNTED
- DOWNLIGHT LUMINAIRE – SURFACE MOUNTED, EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- WALL MOUNTED LUMINAIRE
- WALL MOUNTED LUMINAIRE, EMERGENCY POWER (VERIFY BRANCH OF ESSENTIAL ELECTRICAL SYSTEM WITH DRAWINGS)
- UNIVERSAL MOUNTING EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS
- WALL MOUNTED EXIT LIGHTS, SINGLE FACED
- END MOUNTED EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS
- EMERGENCY BATTERY LIGHTING UNIT, HEADS AS INDICATED

SWITCHES

- $S_{a,b}$ LOWER CASE SUBSCRIPTS INDICATE OUTLET CONTROLLED
- S SINGLE POLE SWITCH (UNLESS NOTED BY SUBSCRIPT)
  - * (2) DOUBLE POLE
  - (3) WAY
  - (4) WAY
  - (D) DIMMER SWITCH (LOW VOLTAGE), NUMBER OF ZONES AS INDICATED
  - (E) EMERGENCY SWITCH
  - (K) KEY OPERATED
  - (P) PILOT LIGHT INDICATION
  - (T) SINGLE PHASE MOTOR STARTING SWITCH
  - (EP) EXPLOSION PROOF
  - (OS) OCCUPANCY SENSOR
  - (WP) WEATHER PROOF
- (OS) OCCUPANCY SENSOR, DUAL TECHNOLOGY, LOW VOLTAGE WITH POWER PACKS. SENSOR SHALL BE PROVIDED WITH AN AUXILIARY RELAY FOR HVAC CONTROLS.
- (PC) PHOTOCELL FOR 0–10 V DIMMING OF ALL FIXTURES IN ROOM, OR WITHIN DAYLIGHT ZONE (DLZ) AS INDICATED BY DASHED LINE

POWER CONNECTIONS

- (J) JUNCTION BOX SIZED PER N.E.C. UNLESS NOTED
- (C) FLOOR JUNCTION BOX
- EF (M) MOTOR CONNECTION, MARK NUMBER WILL IDENTIFY EQUIPMENT, EF, AHU, CU, ETC. SEE MOTOR CONNECTION SCHEDULE.
- 30/3 NON FUSIBLE HEAVY DUTY SAFETY SWITCH, SIZE AND NUMBER OF POLES ARE INDICATED.
- 30/3 25 3R FUSIBLE HEAVY DUTY SAFETY SWITCH, SIZE AND NUMBER OF POLES ARE INDICATED.
  - ENCLOSURE NEMA RATING
  - DISCONNECT SIZE, #POLES FUSE SIZE
- MANUAL MOTOR STARTER
- * MAGNETIC STARTER. * (VFD) PROVIDE WITH VARIABLE FREQUENCY DRIVE CONTROLLER COMPATIBLE WITH VARIABLE FREQUENCY DRIVE.
- * COMBINATION MAGNETIC STARTER WITH A CIRCUIT BREAKER. * (VFD) PROVIDE WITH VARIABLE FREQUENCY DRIVE CONTROLLER COMPATIBLE WITH VARIABLE FREQUENCY DRIVE.
- * COMBINATION MAGNETIC STARTER WITH FUSIBLE HEAVY DUTY SAFETY SWITCH. * (VFD) PROVIDE WITH VARIABLE FREQUENCY DRIVE CONTROLLER COMPATIBLE WITH VARIABLE FREQUENCY DRIVE.
- ENCLOSED CIRCUIT BREAKER.
- ATS AUTOMATIC TRANSFER SWITCH – SEE RISER DIAGRAM
- PANELBOARD, LOW VOLTAGE (120/208V) – SEE PANELBOARD SCHEDULES AND RISER DIAGRAM
- PANELBOARD, HIGH VOLTAGE (277/480V) – SEE PANELBOARD SCHEDULES AND RISER DIAGRAM
- DISTRIBUTION PANEL, SEE RISER DIAGRAM
- M POWER COMPANY METERING.
- T DRY-TYPE TRANSFORMER, SEE RISER. FOR CHARACTERISTICS.
- SPD SURGE PROTECTION DEVICE.

CONDUIT AND WIRE

- CONDUIT CONCEALED IN WALLS OR ABOVE CEILINGS
- CONDUIT CONCEALED UNDERGROUND OR IN SLAB
- CONDUIT HOMERUN
- CONDUIT EXPOSED ON WALLS OR CEILINGS
- EXISTING CONDUIT
- CONDUIT TURNED UP OR DOWN IN WALL
- UE UTILITY COMPANY CONDUIT
- P POWER CONDUIT
- BUSWAY – FEEDER TYPE (UNLESS NOTED)

FIRE ALARM SYSTEM

NOTE:
(D) DENOTES DUCT MOUNTED
(C) DENOTES CEILING MOUNTED
(F) DENOTES FLUSH WALL MOUNTED
(UF) DENOTES UNDER FLOOR ACCESS
(WP) DENOTES WEATHERPROTECTED

- FD THERMAL DETECTOR, FIXED + RATE-OF-RISE
- FX THERMAL DETECTOR, FIXED TEMP.
- ID SMOKE DETECTOR – IONIZATION
- SD SYSTEM SMOKE DETECTOR – PHOTO
- CO CARBON MONOXIDE DETECTOR
- F MANUAL PULL STATION
- H MAGNETIC DOOR RELEASE
- CE CONTROL ELEMENT
- FS FLOW SWITCH (FIRE SPRINKLER)
- KB KNOX BOX, MOUNTED AT 7'-0" AFG OR @ HEIGHT INDICATED ON FLOOR PLAN.
- TS TAMPER SWITCH (VALVE SUPERVISION)
- RR CONTROL RELAY
- RI REMOTE TEST INDICATOR
- FSD FIRE SMOKE DAMPER
- SDH DOOR HOLDER/CLOSER WITH INTEGRAL SMOKE DETECTOR
- FIRE SPRINKLER SOLENOID VALVE
- GV GAS SOLENOID VALVE
- *F SIGNALING APPLIANCE – HORN * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED) – MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- *SF SIGNALING APPLIANCE – SPEAKER * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED) – MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- SIGNALING APPLIANCE – STROBE (75CD UNLESS NOTED) – MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- *CF SIGNALING APPLIANCE – CHIME * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED) – MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- *BF SIGNALING APPLIANCE – BELL * (V) WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED) – MOUNTED 80" A.F.F. TO BOTTOM OF STROBE
- FT FIREMAN'S TELEPHONE
- ELEVATOR WARNING LIGHT, "DO NOT USE ELEVATOR", MOUNTED 48" AFF LOCATE ADJACENT TO TO RECALL SWITCH OR ELEVATOR CALL BUTTON.
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FACP FIRE ALARM CONTROL PANEL
- FATC FIRE ALARM TERMINAL CABINET

SITE

- T POWER COMPANY TRANSFORMER – UNLESS NOTED
- POLE
- G GENERATOR – SEE RISER DIAGRAM

ABBREVIATIONS:

A	AMPERES
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ANNUN	ANNUNCIATOR
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
C	CONDUIT
CAT	CATALOG
CKT	CIRCUIT
CU	COPPER
C/B	CIRCUIT BREAKER
C/T	CURRENT TRANSFORMERS
△	DELTA
DWG	DRAWING
FT	FEET
G	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPT
IG	ISOLATED GROUND
KVA	KILOVOLT – AMPERES
KW	KILOWATTS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE
NC	NORMALLY CLOSED
NL	NIGHT LIGHT CIRCUIT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NIC	NOT IN CONTRACT
ø	PHASE
POS	POINT OF SALE
PVC	POLYVINYL CHLORIDE
P/T	POTENCIAL TRANSFORMER
R	RECESSED
SCA	SHORT CIRCUIT AMPERES
SURF	SURFACE
TEL	TELEPHONE
UG	UNDERGROUND
UNIV	UNIVERSAL
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WATTS
WP	WEATHERPROOF
WPG	WEATHERPROOF WITH GROUND FAULT INTERRUPT
XFMER	TRANSFORMER
Y	WYE

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	WATTS	LAMP TYPE	VOLTAGE	LUMEN OUTPUT	MOUNTING	NOTES
A	2'X4' RECESSED LED TUNABLE FLAT PANEL TUNED TO 3400 LUMENS 35K DESIGN SELECTION: COLUMBIA CAT# CFP24-LSCS-3400 LUMENS 35K	25	LED	UNV	3394	RECESSED	1,3
B	2'X2' RECESSED LED TUNABLE FLAT PANEL TUNED TO 2800 LUMENS / 35K DESIGN SELECTION: COLUMBIA CAT# CFP22-LSCS-2800 LUMENS 35K	24	LED	UNV	2800	RECESSED	1,3
C	4' LED STRIP W/ WIRE GUARD. DESIGN SELECTION: COLUMBIA CAT# LCL4-40ML-EU-LCLWC4	42	LED	UNV	5411	SURFACE, WALL, OR CHAIN SUSPENDED	2
D	2'X4' RECESSED LED LAY IN TROFFER, TRIPLE GASKETED, ALUMINUM DOOR AND INVERTED ACRYLIC LENS. DESIGN SELECTION: COLUMBIA CAT# LJT24-35MLG-FAA12F-EDU-G3	38	LED	UNV	4900	RECESSED	1,3
F	16" LED SURFACE MOUNTED ROUND. DESIGN SELECTION: LEGION CAT# 520LVX-16-020L-40-ACW-120	20	LED	120V	1500	SURFACE	1
G	1'X4' RECESSED LED TUNABLE FLAT PANEL TUNED TO 4100 LUMENS 35K WITH FLANGE KIT FOR HARD CEILING DESIGN SELECTION: COLUMBIA CAT# CFP14-LSCS-4100 LUMENS-35K-FK14	38	LED	UNV	4185	RECESSED	1,3
H	4' SURFACE MOUNTED LOW PROFILE LED WRAPAROUND DESIGN SELECTION: COLUMBIA CAT# LAW4-35MW-EU	36	LED	UNV	4204	SURFACE	1
I	2' SURFACE MOUNTED LOW PROFILE LED WRAPAROUND DESIGN SELECTION: COLUMBIA CAT# LAW2-35LW-EU	24	LED	UNV	2644	SURFACE	1
J	11" WALL MOUNTED COMPACT LED DESIGN SELECTION: LEGION CAT# 540L-11-LED-12W-40K-UNV	12	LED	UNV	1320	WALL	1
EM	LED EMERGENCY LIGHT FIXTURE SELF DIAGNOSTICS WHITE DESIGN SELECTION: COMPASS CAT# CU2SD	<5	LED	UNV	–	SURFACE	
X1/ X2	UNIVERSAL FACE GREEN LED EXIT SIGN, WHITE THERMOPLASTIC HOUSING W/ NICAD EMERGENCY BATTERY. DESIGN SELECTION: COMPASS CAT# CEG	1.88	LED	UNV	–	CEILING MOUNTED	

THE SPECIFIED FIXTURES HAVE BEEN SELECTED BASED ON PHOTOMETRIC PERFORMANCE, ELECTRICAL CHARACTERISTICS, VISUAL COMFORT AND AESTHETIC INTERPRETATION AND AS SUCH ANY CONTRACTOR WISHING TO PROPOSE ALTERNATE FIXTURES MUST SUBMIT SUCH REQUEST, IN WRITING, TEN (10) WORK DAYS PRIOR TO BID. THE REQUEST SHALL INCLUDE A COMPLETE SET OF CATALOG CUT SHEETS OF ALL FIXTURES FOR REVIEW. SAMPLES MAY BE REQUIRED. APPROVALS SHALL ONLY BE ISSUED BY THE ARCHITECT IN THE FORM OF AN ADDENDUM TO THE BID DOCUMENTS.

LUMINAIRE SCHEDULE NOTES:

1. CONTRACTOR SHALL CAREFULLY COORDINATE THE LIGHTING FIXTURE TRIM TYPES WITH THE TYPE OF CEILING WHERE LIGHTING FIXTURES ARE TO BE INSTALLED MODIFY FIXTURE CATALOG NUMBER FROM THAT SHOWN ABOVE TO THAT REQUIRED TO COORDINATE WITH CEILING TYPE/CONSTRUCTION.
2. MOUNTING TYPE TO BE DETERMINED PER FLOOR PLANS.
3. PROVIDE PLASTER FRAME FOR FIXTURES INSTALLED IN HARD CEILINGS. 1X4–FK14, 2X2–FK22, 2X4–FK24 REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

GENERAL NOTES:

1. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM WHETHER INDICATED OR NOT.
2. CODES AND STANDARDS: ALL ELECTRICAL WORK SHALL BE IN STRICT COMPLIANCE WITH OSHA REQUIREMENTS, THE 2017 NATIONAL ELECTRICAL CODE, THE FLORIDA ELECTRICAL CODE AND POWER COMPANY REQUIREMENTS AND STANDARDS. ALL MATERIALS SHALL BE NEW UNLESS SPECIFIED OTHERWISE AND FREE FROM DEFECTS, AND SHALL BEAR THE UNDERWRITER'S LABEL FOR ITS INTENDED USE AND PURPOSE.
3. CONTRACTOR SHALL THOROUGHLY INVESTIGATE SITE BEFORE BIDDING. NO CHANGES WILL BE ALLOWED IN CONTRACT PRICE FOR WORK REQUIRED TO COMPLY WITH EXISTING CONDITIONS.
4. WORKMANSHIP SHALL MEET N.E.C.A. GUIDELINES AND NEC 110.12.
5. IF, THROUGH ERRORS OR OMISSIONS, THE INTENT OF THE ARCHITECT OR ENGINEER, WITH REGARD TO ANY DETAIL, IS NOT CLEAR, OR IS CAPABLE OF MORE THAN ONE INTERPRETATION, SUCH MATTERS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IN WRITING BEFORE THE SUBMISSION OF BIDS, AND THE ARCHITECT OR ENGINEER SHALL MAKE THE NECESSARY CORRECTION OR EXPLANATION IN A WRITTEN FORMAL RESPONSE. OTHERWISE, NO EXTRA CHARGE WILL BE ALLOWED FOR THE WORK OR MATERIAL WHICH THE ARCHITECT OR ENGINEER MAY REQUIRE, PROVIDED THAT IT COMES WITHIN A REASONABLE INTERPRETATION OF THE DRAWINGS, SPECIFICATIONS, AND OVERALL INTENT OF THE CONTRACT DOCUMENTS.
6. THE PLANS AND SPECIFICATIONS ARE INTENDED AS A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED. ALL ITEMS NOT SPECIFICALLY MENTIONED OR SHOWN, BUT NECESSARY FOR THE COMPLETION OF THE INSTALLATION, SHALL BE FURNISHED AND INSTALLED AS PART OF THIS CONTRACT, BY THE SUB-CONTRACTOR. THIS SUB-CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE MECHANICAL, ARCHITECTURAL, PLUMBING, STRUCTURAL, AND ELECTRICAL PLANS PRIOR TO SUBMITTING HIS FINAL BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO FAMILIARIZE HIMSELF WITH THE PLANS AND HAVE ALL ITEMS OF WORK CLEARLY UNDERSTOOD AND ITEMIZED IN HIS BID PROPOSAL
7. PROVIDE LABOR, MATERIALS, TOOLS, EQUIPMENT AND SERVICES FOR ELECTRICAL WORK INDICATED ON DRAWINGS.
8. WHERE CONDUIT IS REQUIRED BELOW GRADE, IT SHALL BE SCHEDULE 40 PVC. PROVIDE NYLON PULL CORDS IN ALL EMPTY CONDUITS. SIZE CONDUIT PER N.E.C. FOR ENCLOSED WIRING.
9. WHERE CONDUIT IS REQUIRED WITHIN THE BUILDING, IT SHALL BE:
   - 9.1. WHERE EXPOSED TO PHYSICAL DAMAGE, RIGID OR INTERMEDIATE METAL CONDUIT.
   - 9.2. WHERE CONCEALED IN STRUCTURE OR CONCEALED BY FINISHES, EMT SHALL BE UTILIZED EXCEPT WHERE RIGID NONMETALLIC CONDUIT IS PERMITTED BY LOCAL AUTHORITY.
   - 9.3. MC CABLE WITHIN PARTITIONS. MC CABLE MAY NOT BE USED FOR ANY HOMERUN.
10. FITTINGS SHALL BE APPROVED AND U.L. LISTED FOR THE RACEWAY UTILIZED.
11. ALL CONDUCTORS SHALL BE COPPER (#12 MIN.), THHN/THWN INSULATION UNO. COMPLY WITH ALL N.E.C. ARTICLES. ALL CONDUCTORS SHALL BE NEW, FREE FROM KINKS AND OTHER DEFECTS AFTER INSTALLATION HAS BEEN MADE.
12. WHERE NEW CONDUCTORS AND/OR CONDUIT SYSTEM ARE INSTALLED, LENGTH AND ROUTING OF CONDUCTORS AND/OR CONDUIT SYSTEMS SHALL BE DETERMINED IN THE FIELD BY THE ELECTRICAL CONTRACTOR.
13. PROVIDE ALL ADDITIONAL AUXILIARY EQUIPMENT SUCH AS CONDUIT SUPPORT DEVICES, BOXES, CLAMPS, ETC., NOT SPECIFICALLY SHOWN ON THESE DRAWINGS, BUT NECESSARY FOR A COMPLETE INSTALLATION.
14. ALL PLATE FINISHES SHALL BE AS DESIGNATED BY THE ARCHITECT.
15. PROVIDE SILENT TYPE STANDARD GRADE 20 AMP, 120V FOR ALL SINGLE POLE, DOUBLE POLE, THREE-WAY AND FOUR-WAY SWITCHES.
16. LUMINAIRE SCHEDULE SHOWS FIXTURE TYPES. DETERMINE MODIFICATIONS REQUIRED TO MAKE FIXTURES SUITABLE FOR CEILINGS AS INSTALLED, AND FURNISH FIXTURES ADAPTED TO THE TYPE OF CEILING USED. FIXTURES SHALL BE U.L. APPROVED. THIS CONTRACTOR SHALL PROTECT THE FIXTURES AND LAMPS AND SHALL REPLACE ANY BROKEN PARTS. ALL LENSES AND LOUVERS IN ANY AREA SHALL BE CLEANED AFTER ALL TRADES HAVE COMPLETED THEIR WORK IN THAT AREA. PROTECT EACH FIXTURE WITH CLEAN, CLEAR PLASTIC UNTIL FINAL INSPECTION. PROVIDE NEW LAMPS FOR ALL LIGHTING FIXTURES.
17. DRIVERS FOR LED FIXTURES SHALL BE U.L. CLASS P, HIGH POWER FACTOR, RAPID START TYPE WITH CBM APPROVAL WHERE APPLICABLE. DRIVERS SHALL BE "A" SOUND RATING EXCEPT WHERE THIS RATING IS NOT AVAILABLE IN WHICH CASE THE RATING SHALL BE THE BEST AVAILABLE. ALL LED DRIVERS SHALL BE ELECTRONIC, ENERGY SAVING TYPE.
18. DISCONNECTS SHALL BE HEAVY DUTY SAFETY SWITCHES WITH 100,000A SHORT CIRCUIT RATING, AND SHALL BE LISTED IN ACCORDANCE WITH U.L. 98. THE COVER SHALL BE INTERLOCKED SO THAT THE DOOR CANNOT BE OPENED WITH THE HANDLE IN THE "ON" POSITION, EXCEPT BY THE INTENTIONAL OPERATION OF A CONCEALED RELEASE (DEFEATER) MECHANISM. PROVIDE FUSIBLE SWITCH FOR A/C UNITS AS PER U.L. LISTING AND LOCAL CODE REQUIREMENTS. PROVIDE DUAL ELEMENT, TIME DELAY FUSES IN ALL FUSIBLE SWITCHES.
19. A SEPARATE GROUNDING CONDUCTOR, SIZED IN ACCORDANCE WITH N.E.C. ARTICLE 250-122 SHALL BE PROVIDED IN THE CONDUIT WITH THE CIRCUIT CONDUCTORS FOR ALL LIGHTING, POWER AND FEEDER CIRCUITS.
20. ALL ELECTRICAL EQUIPMENT ENCLOSURES AND CONDUCTOR ENCLOSURES SHALL BE GROUNDED.
21. PROVIDE PROTECTIVE COVERING OVER PANELS AND EQUIPMENT DURING CONSTRUCTION.
22. THE CONTRACTOR SHALL INSTALL HIS WORK TO JOB CONDITIONS AND MAKE SUCH CHANGES AS REQUIRED AND PERMITTED BY THE ARCHITECT, SUCH AS MOVING HIS WORK TO CLEAR BEAMS, JOISTS, AND ADJUSTING OTHER APPARATUS TO AVOID INTERFERENCES WITH WINDOWS AND OPENINGS; OR RAISING OR LOWERING HIS WORK TO PERMIT THE PASSING OF DUCTWORK OR THE WORK OF OTHER TRADES; ALL AS REQUIRED OR AS JOB CONDITIONS DICTATE, WITHOUT ANY ADDITIONAL COSTS TO THE OWNER OR THE CONTRACT PRICE.
23. EXAMINE AREAS AND CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND PRODUCTS ARE TO BE INSTALLED AND NOTIFY ARCHITECT IN WRITING OF CONDITIONS DETRIMENTAL TO PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE INSTALLER.
24. DO NOT ALLOW OR CAUSE ANY OF THE WORK OF THIS DIVISION, OR CAUSE OTHER DIVISIONS OF WORK TO BE COVERED UP, OR ENCLOSED, UNTIL IT HAS BEEN INSPECTED, TESTED AND APPROVED BY THE ARCHITECT AND BY ALL OTHER AUTHORITIES HAVING JURISDICTION.
25. PROVIDE GROUND AND CONTINUITY TESTING ON ALL ELECTRICAL CIRCUIT WIRING PRIOR TO RECONNECTION/REINSTALLATION.
26. ALL SWITCHES, OUTLETS, COVER PLATES, SIGNS, LIGHTING FIXTURES, AND ANY AND ALL OTHER ELECTRICAL EQUIPMENT PROVIDED SHALL BE THOROUGHLY CLEANED OF ALL DIRT, OIL, CONCRETE, ETC. ANY DENTS, SCRATCHES OR OTHER VISIBLE BLEMISHES SHALL BE CORRECTED AND THE APPEARANCE AND CORROSION RESISTANCE OF THE EQUIPMENT MADE "LIKE NEW", TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.
27. PERFORM ALL ADJUSTMENTS NECESSARY TO ENSURE PROPER SYSTEM OPERATION IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

GENERAL ELECTRICAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSAL SO AS TO BECOME FAMILIAR WITH EXISTING WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE, THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE BY DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN EQUIPMENT ROUTING AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER MAY BE NECESSARY AND IT IS INTENDED THAT SUCH DEVIATIONS SHALL BE CONSIDERED AS PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL EXISTING CONDITIONS, PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
2. COORDINATE SEQUENCING WITH OWNER AND OTHER CONTRACTORS.
3. ALL EXISTING DEVICES AND EQUIPMENT NOT SHOWN AND IN AREAS OUTSIDE OF REMODELING SHALL REMAIN ACTIVE UNLESS OTHERWISE NOTED. PERFORM ALL WORK AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING DEVICES AND EQUIPMENT THAT REMAIN. ANY SUCH WORK SHALL BE CONCEALED UNLESS LOCATED IN UNFINISHED AREAS.
4. DISCONNECT, REMOVE OR RELOCATE ALL EXISTING ELECTRICAL MATERIAL AND EQUIPMENT THAT INTERFERES WITH NEW INSTALLATION. THIS INCLUDES BUT IS NOT LIMITED TO PANELS, LIGHTING FIXTURES, WIRING DEVICES, SIGNAL EQUIPMENT, EXHAUST FANS, BASEBOARD HEATERS, UNIT HEATERS, ETC.
5. SEE MECHANICAL DRAWINGS FOR HEATERS, EXHAUST FANS, ETC., WHICH MUST BE DISCONNECTED BY THIS CONTRACTOR FOR REMOVAL OR ABANDONMENT BY MECHANICAL CONTRACTOR.
6. ALL EQUIPMENT AND MATERIAL REMOVED AND NOT REUSED SHALL BE TURNED OVER TO THE OWNER OR AT THE OWNERS REQUEST DISPOSED OF BY THE CONTRACTOR.
7. WHERE WORK BY THE GENERAL CONTRACTOR (WALL REMOVAL, NEW OR RELOCATED WALL OPENINGS, ETC.) RESULTS IN THE REMOVAL, RELOCATION OR REFEEDINGS OF ELECTRICAL DEVICES OR LIGHTING FIXTURES, THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND RECONNECT AS REQUIRED ALL ACTIVE DEVICES REMAINING.
8. WHERE CONDUIT TO BE REMOVED STUBS THROUGH FLOORS, WALLS, AND CEILINGS, SUCH CONDUIT SHALL BE REMOVED TO THE POINT WHERE THE FINISH SURFACES CAN BE PATCHED ADEQUATELY SO THAT NO EVIDENCE OF THE FORMER INSTALLATION REMAINS.
9. ANY EXISTING PANEL HOME-RUNS, WHICH WILL REMAIN WITHIN THE AREA, MAY BE RETAINED AND USED AS PART OF THE NEW CIRCUITRY OR REMAIN AS SPARE EMPTY CONDUIT. SUCH EMPTY CONDUITS SHALL BE MARKED AS TO PANEL AND END LOCATIONS. EXISTING OUTLET BOXES CONDUIT WHICH ARE LOCATED PROPERLY FOR NEW WORK MAY BE REUSED FOR NEW DEVICES AND WIRE.
10. ALL CUTTING, CORING AND PATCHING REQUIRED FOR ELECTRICAL WORK SHALL BE BY THE ELECTRICAL CONTRACTOR.
11. THE EXISTING BUILDING IS TO REMAIN IN OPERATION DURING CONSTRUCTION. THIS CONTRACTOR SHALL COORDINATE ALL WORK THAT WILL INTERFERE WITH THE PRESENT OPERATION OF THE FACILITY WITH THE OWNER AND SHALL PROVIDE TEMPORARY POWER TO ALL EQUIPMENT THAT MUST REMAIN IN OPERATION.
12. ALL CONDUIT AND WIRE REMOVED SHALL BE TAKEN BACK TO THE SOURCE OF SUPPLY.
13. INSTALL BLANK COVER PLATES WHERE REQUIRED.

APPLICABLE CODES:

1. FLORIDA BUILDING CODE 2020.
2. FLORIDA BUILDING CODE 2020 – ENERGY CONSERVATION 7TH EDITION.
3. NFPA 70 NATIONAL ELECTRICAL CODE – 2017 EDITION.
4. NFPA 72 NATIONAL FIRE ALARM & SIGNALING CODE – 2016 EDITION.
5. NFPA 101 LIFE SAFETY CODE – 2018 EDITION.

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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
GENERAL NOTES - ELECTRICAL

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103E0-1.DWG

Drawing Number:

E0-1

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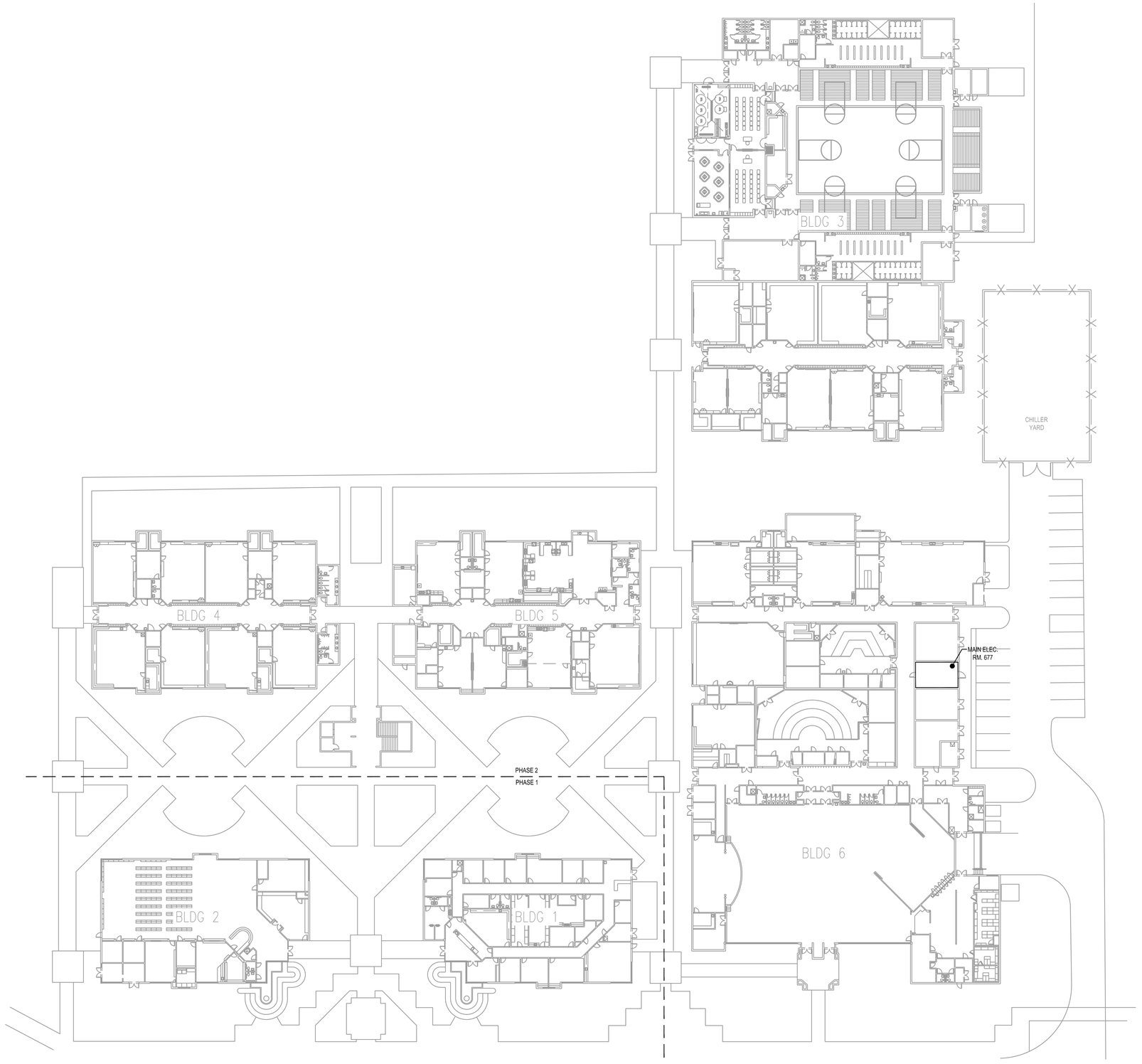

SITE PLAN - ELECTRICAL
SCALE: 1" = 30'-0"

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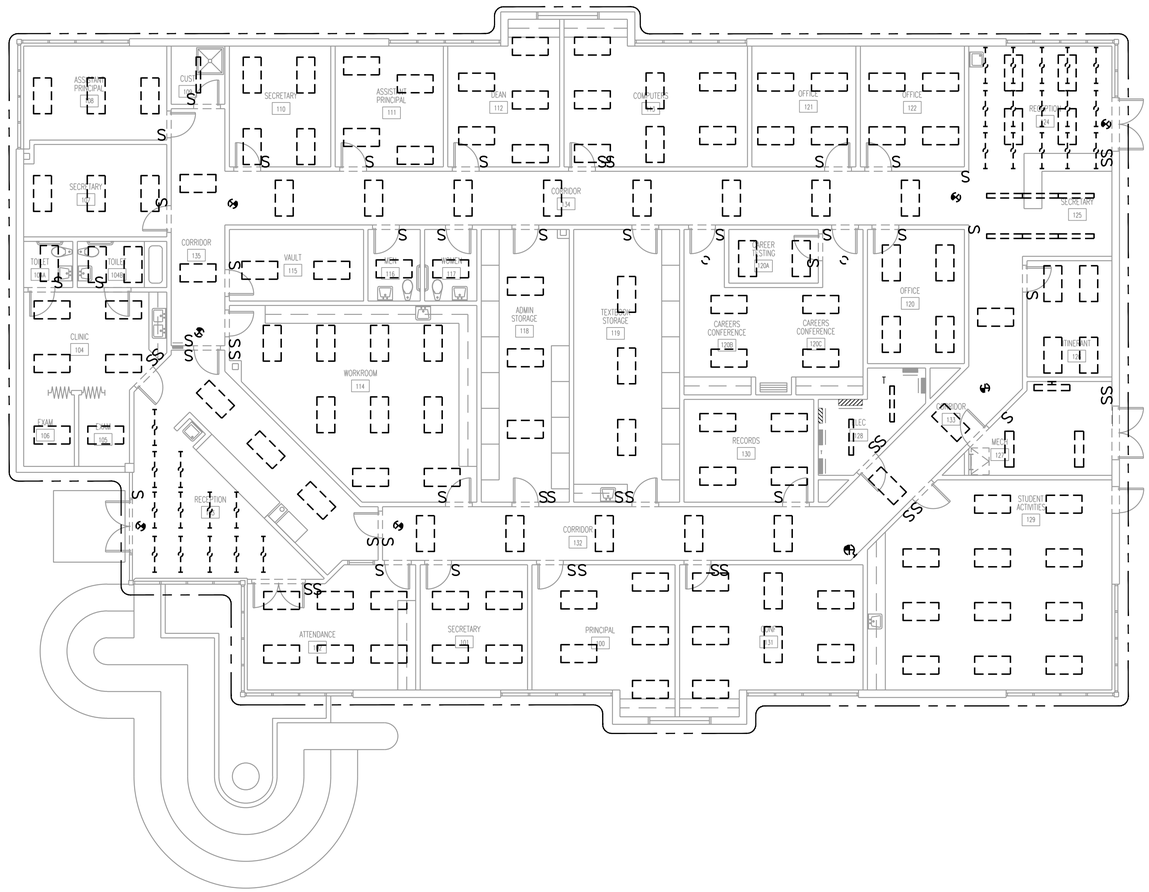

PHASE 1 - BUILDING 1 FLOOR PLAN - DEMO - LIGHTING

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

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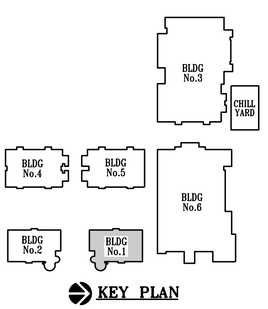

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PHASE 1 - BUILDING 1 FLOOR PLAN - DEMO - LIGHTING

Date:	08/26/2022
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Drawing Number:

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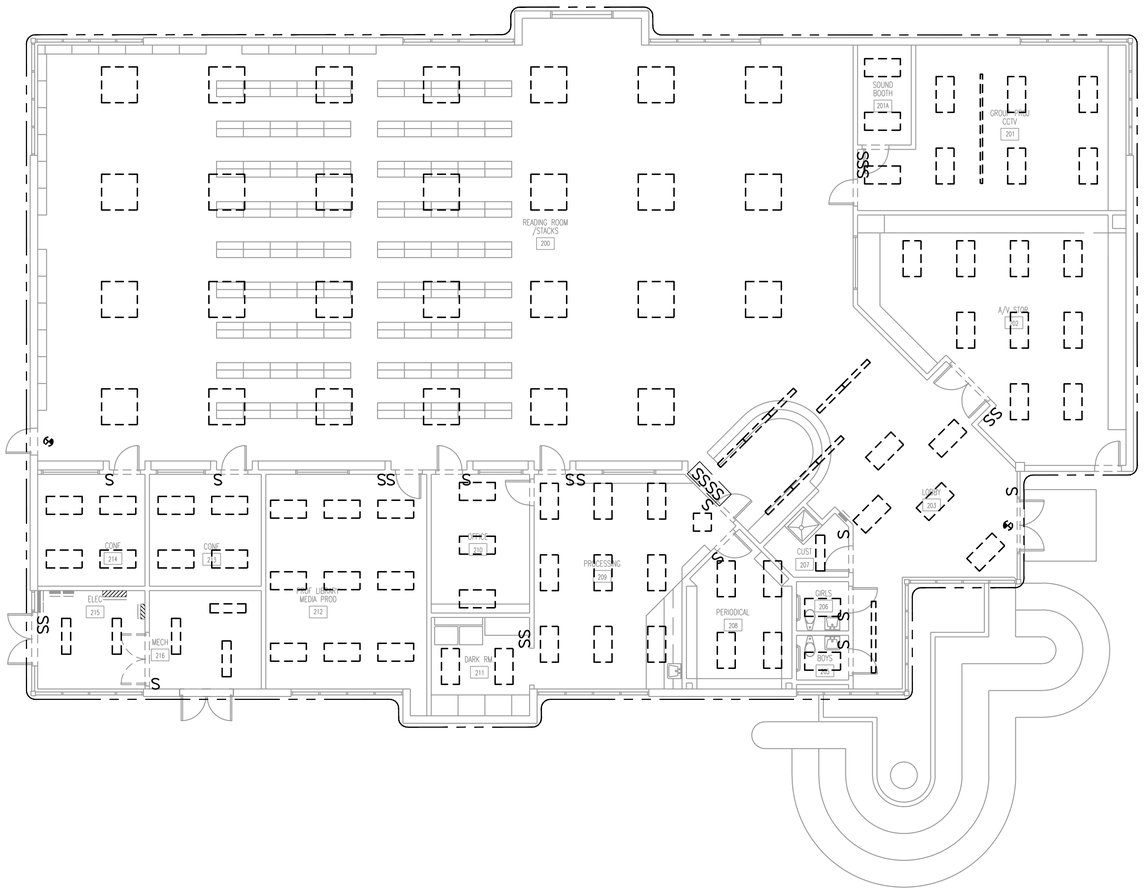
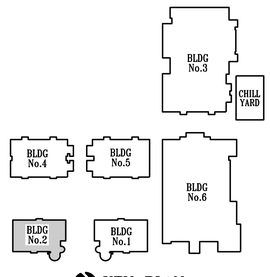


PHASE 1 - BUILDING 2 FLOOR PLAN - DEMO - LIGHTING

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



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Sheet Title:
PHASE 1 - BUILDING 2
FLOOR PLAN - DEMO -
LIGHTING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
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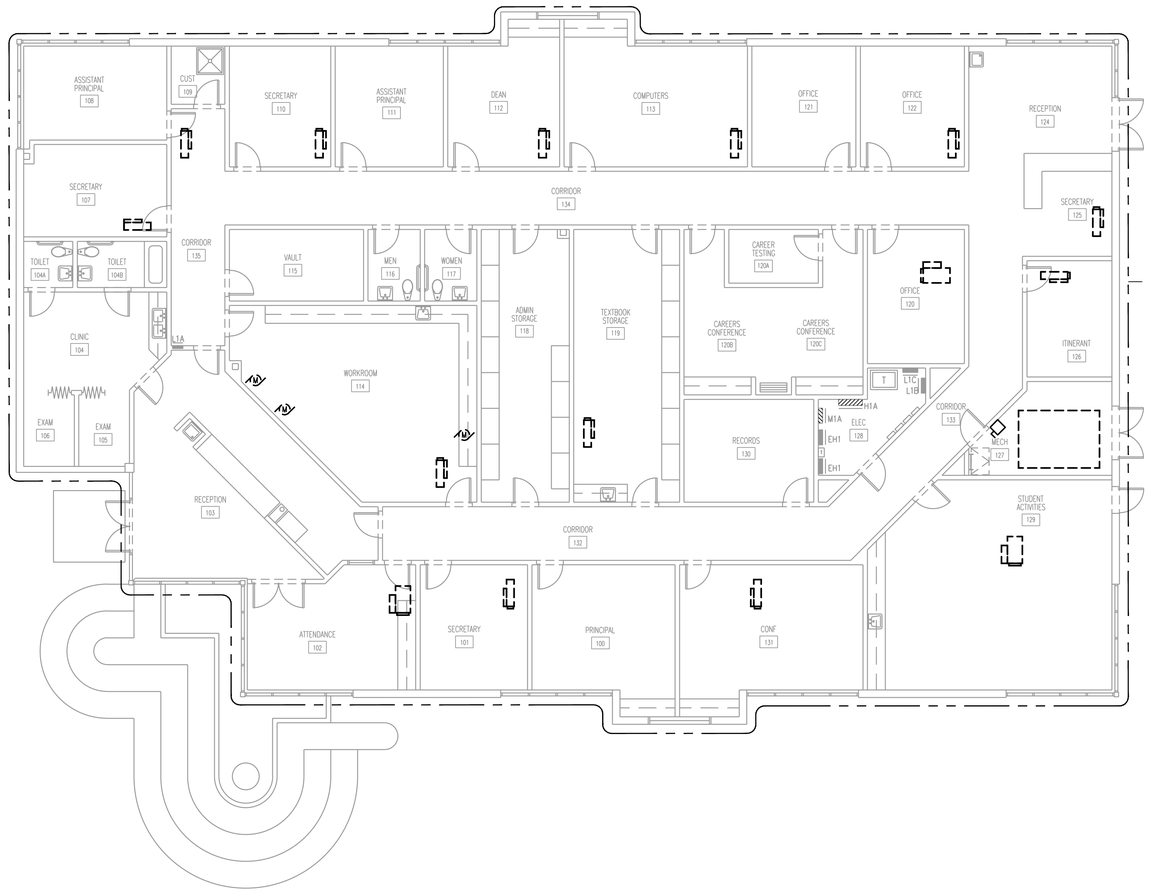

PHASE 1 - BUILDING 1 FLOOR PLAN - DEMO - POWER

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

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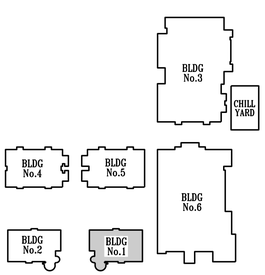

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Sheet Title:
PHASE 1 - BUILDING 1 FLOOR PLAN - DEMO - POWER

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
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Project Number:	22103
File Date:	4/19/2019
File Name:	22103P1-ED2-1.DWG

Drawing Number:

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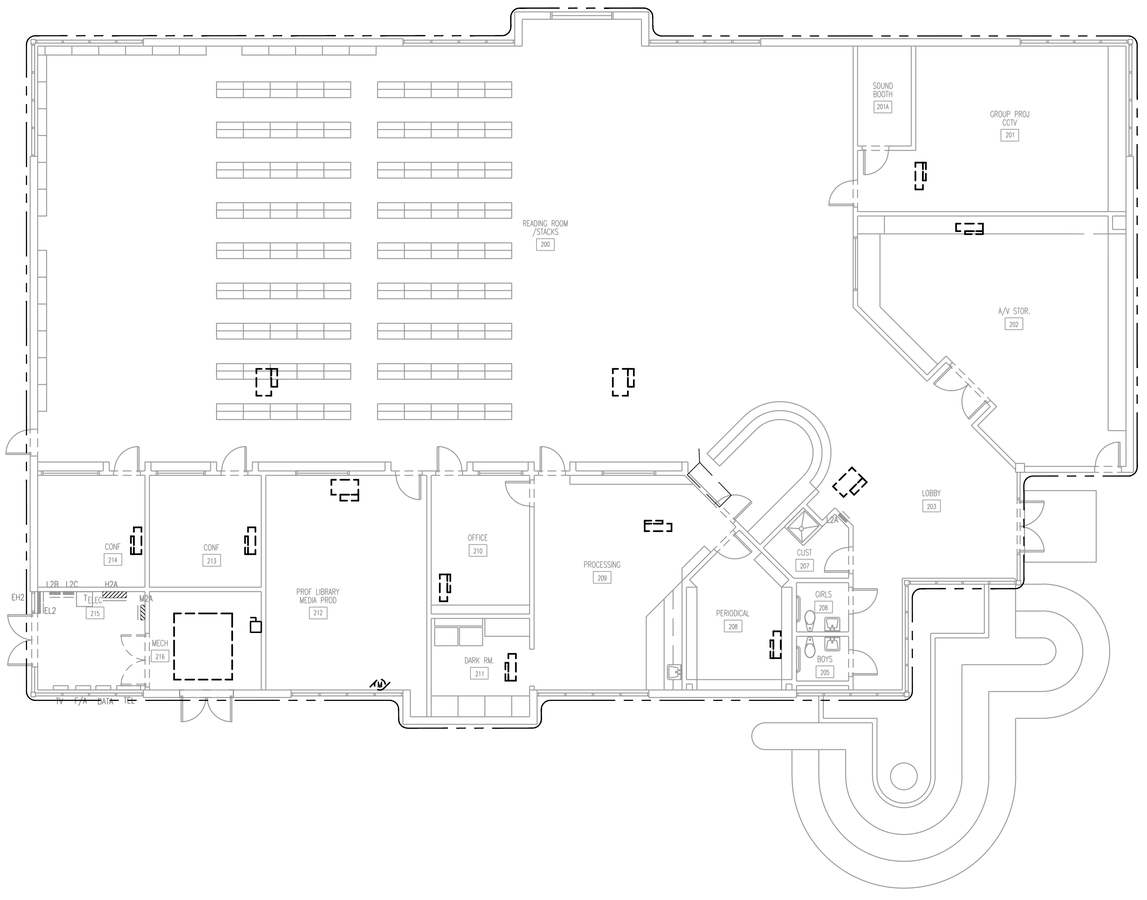
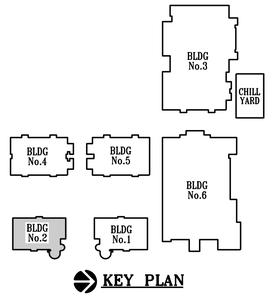


PHASE 1 - BUILDING 2 FLOOR PLAN - DEMO - POWER

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



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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL. 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 1 - BUILDING 2
FLOOR PLAN - DEMO - POWER

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P1-ED2-2.DWG

Drawing Number:

P1-ED2-2

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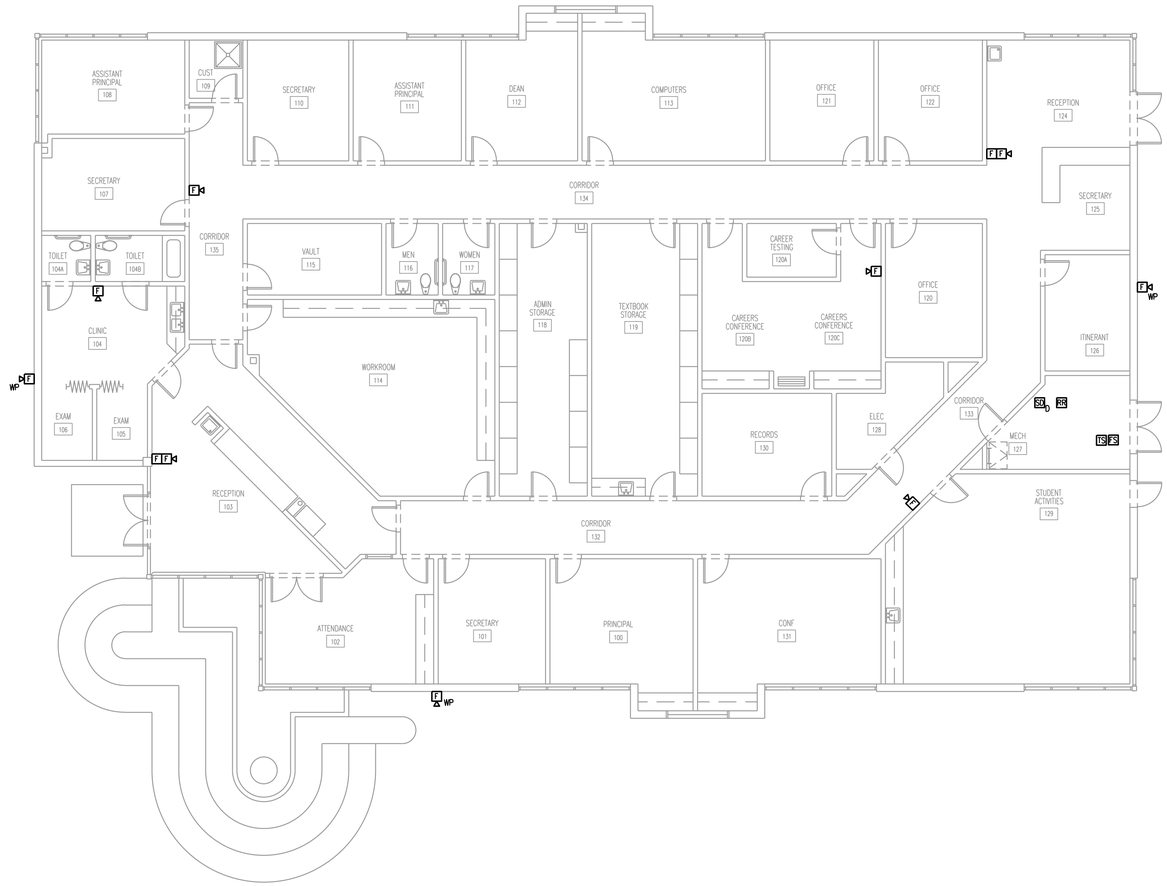
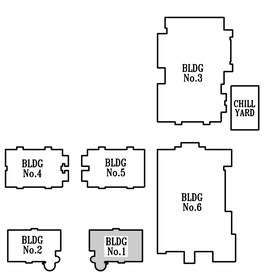
PRINT DATE:8/26/2022 3:12 PM SAVE DATE:8/25/2022 10:47 AM FILE LOCATION:J:\22 JOBS\22103 - SLPS FGMS AHU RETROFIT\DWGS\22103P1-ED2-2.DWG



PHASE 1 - BUILDING 1 FLOOR PLAN - DEMO - FIRE ALARM

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

NOT FOR CONSTRUCTION



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No.	Date	Description

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St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL. 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 1 - BUILDING 1
FLOOR PLAN - DEMO -
FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P1-ED3-1.DWG

Drawing Number:

P1-ED3-1

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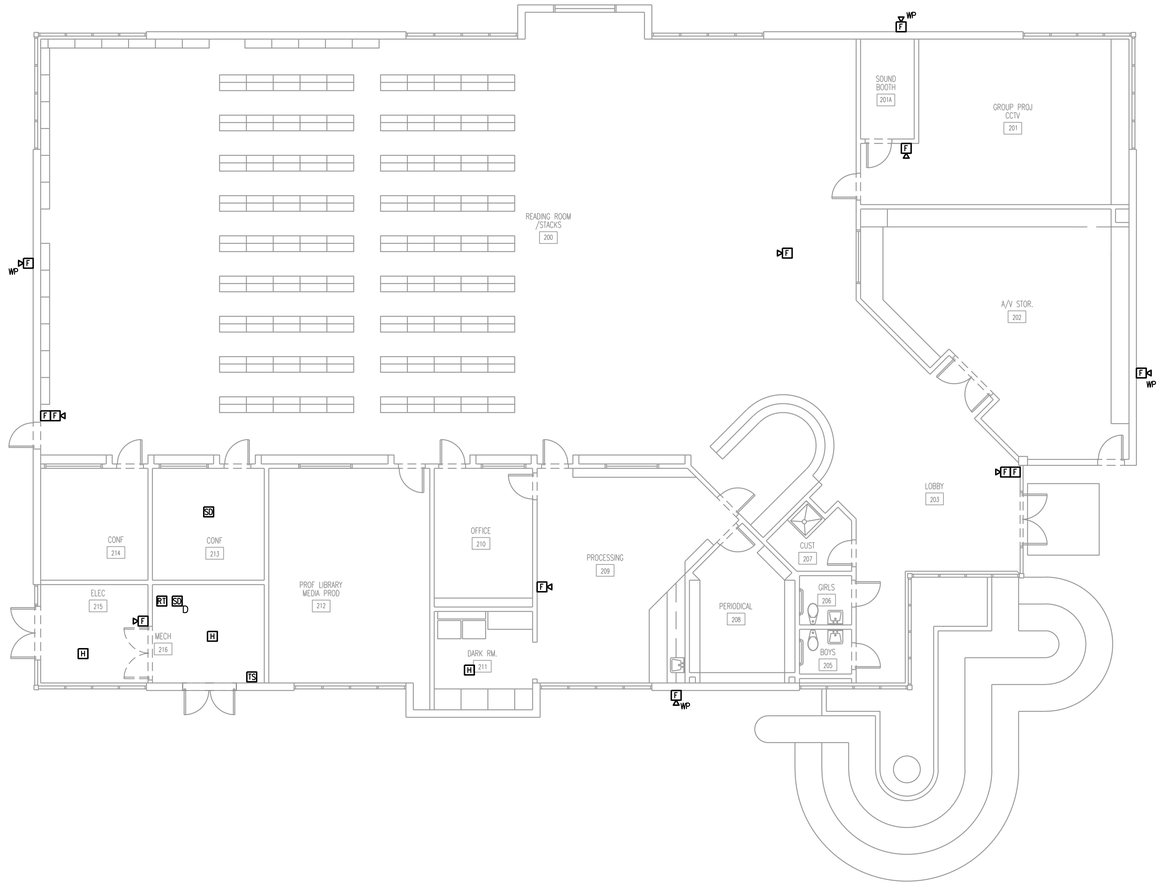
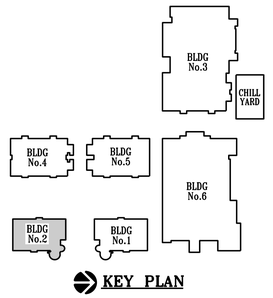


PHASE 1 - BUILDING 2 FLOOR PLAN - DEMO - FIRE ALARM

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

NOT FOR CONSTRUCTION



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3201 S 25TH ST
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Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 1 - BUILDING 2
FLOOR PLAN - DEMO -
FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P1-ED3-2.DWG

Drawing Number:

P1-ED3-2

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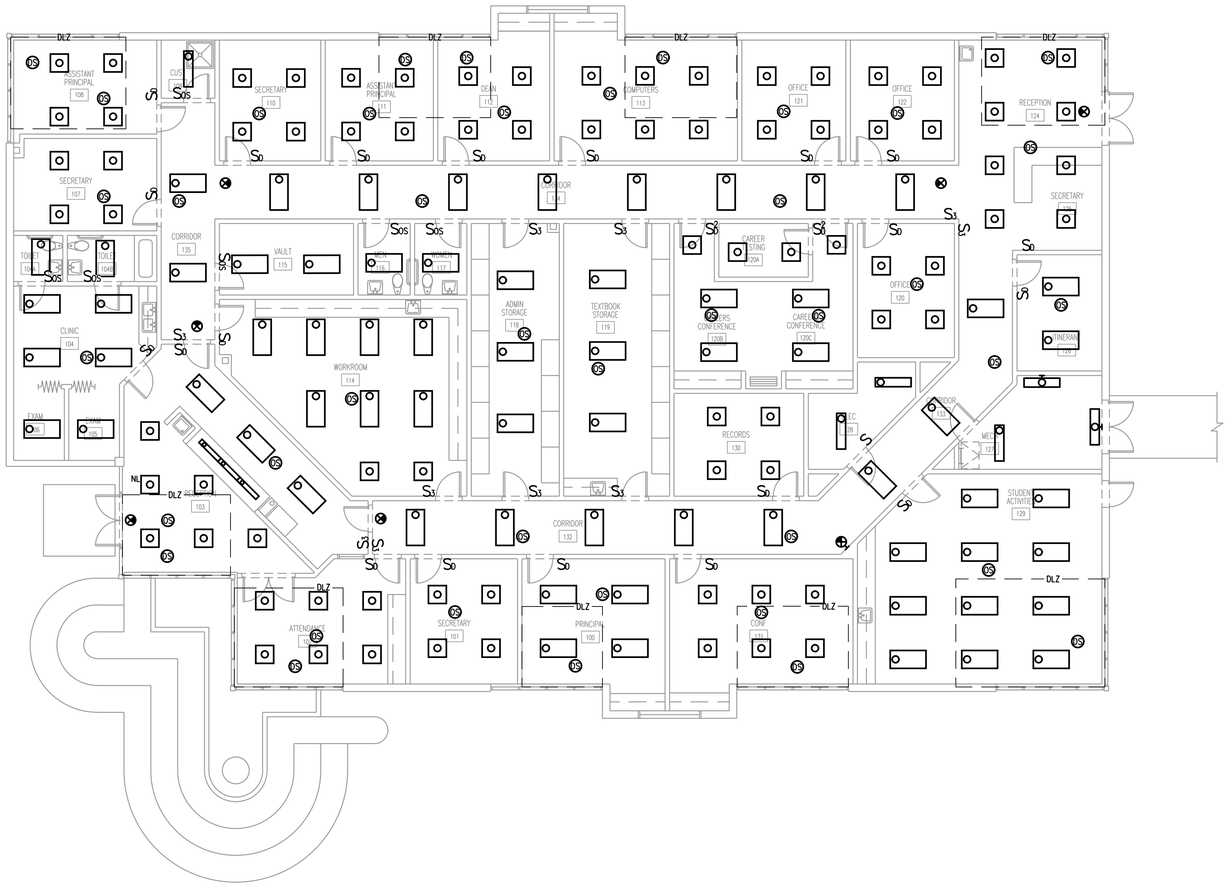
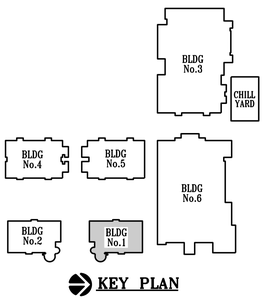


PHASE 1 - BUILDING 1 FLOOR PLAN - NEW - LIGHTING

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

NOT FOR CONSTRUCTION



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3201 S 25TH ST

FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL. 32751
FL. REG. NO.: PE66402

Sheet Title:

PHASE 1 - BUILDING 1 FLOOR PLAN - NEW - LIGHTING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P1-E1-1.DWG

Drawing Number:

P1-E1-1

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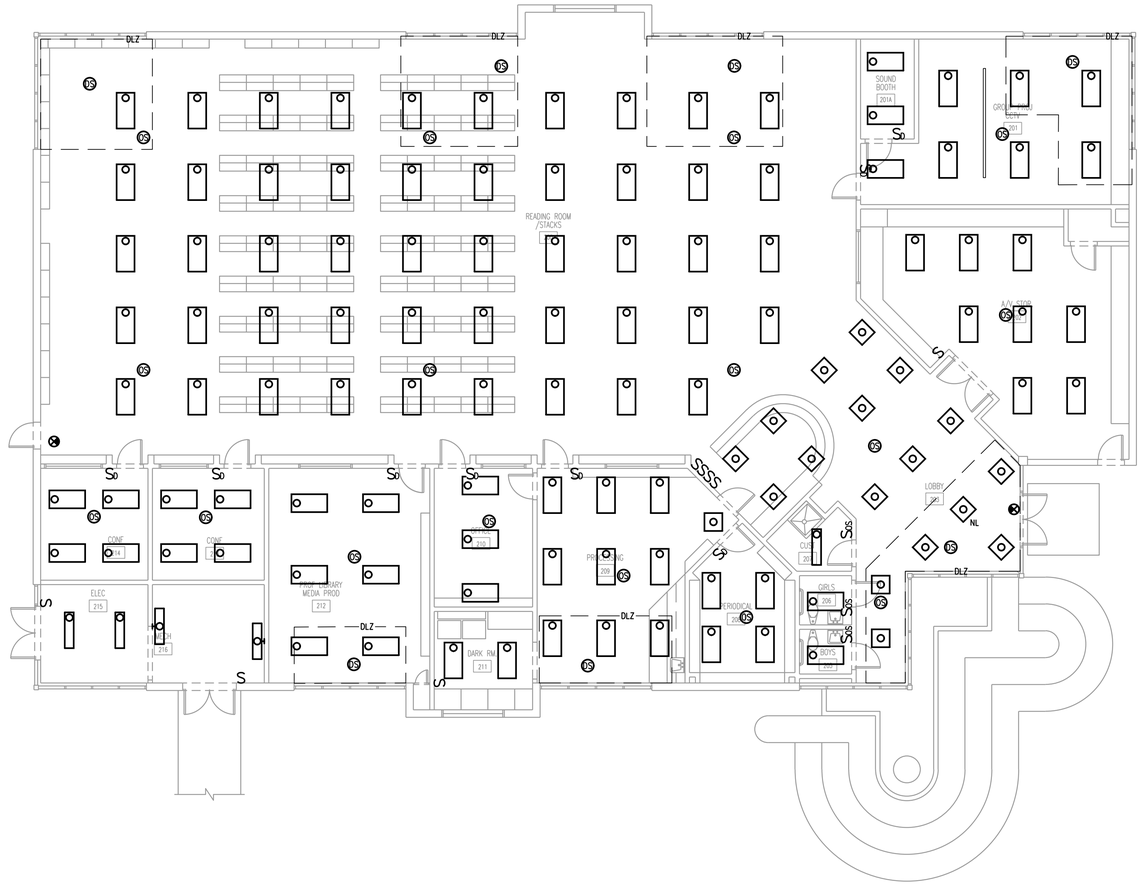
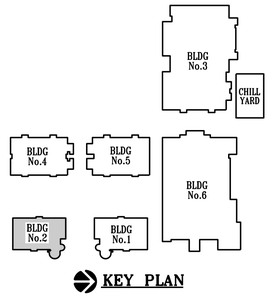


PHASE 1 - BUILDING 2 FLOOR PLAN - NEW - LIGHTING

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



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Seal:

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600 S. ORLANDO AVE.
MAITLAND, FL. 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 1 - BUILDING 2
FLOOR PLAN - NEW -
LIGHTING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P1-E1-2.DWG

Drawing Number:

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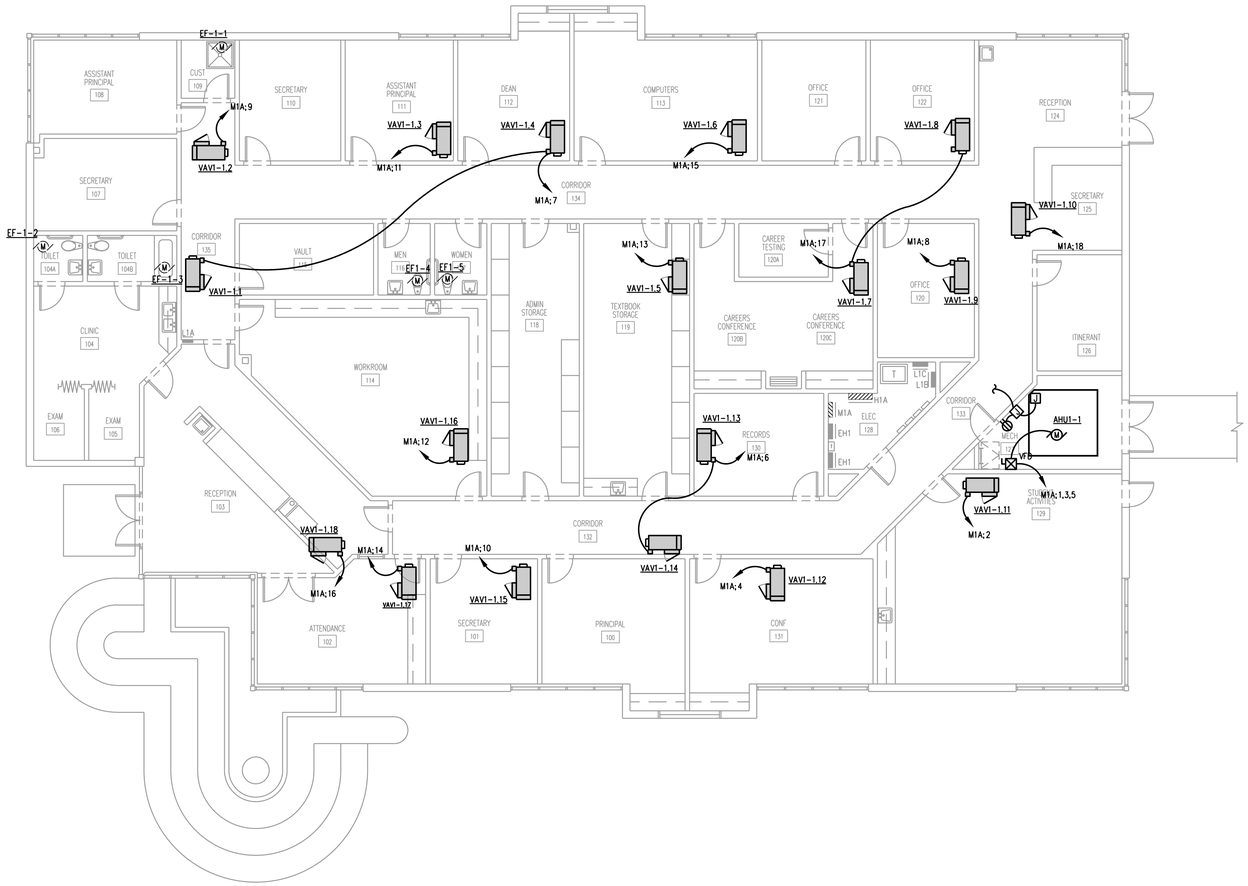
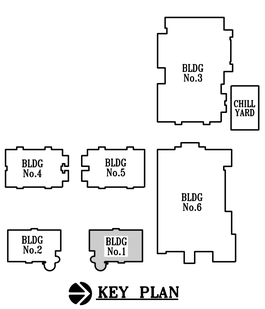


PHASE 1 - BUILDING 1 FLOOR PLAN - NEW - POWER

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



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Project Title:

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3201 S 25TH ST
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Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 1 - BUILDING 1
FLOOR PLAN - NEW -
POWER

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P1-E2-1.DWG

Drawing Number:

P1-E2-1

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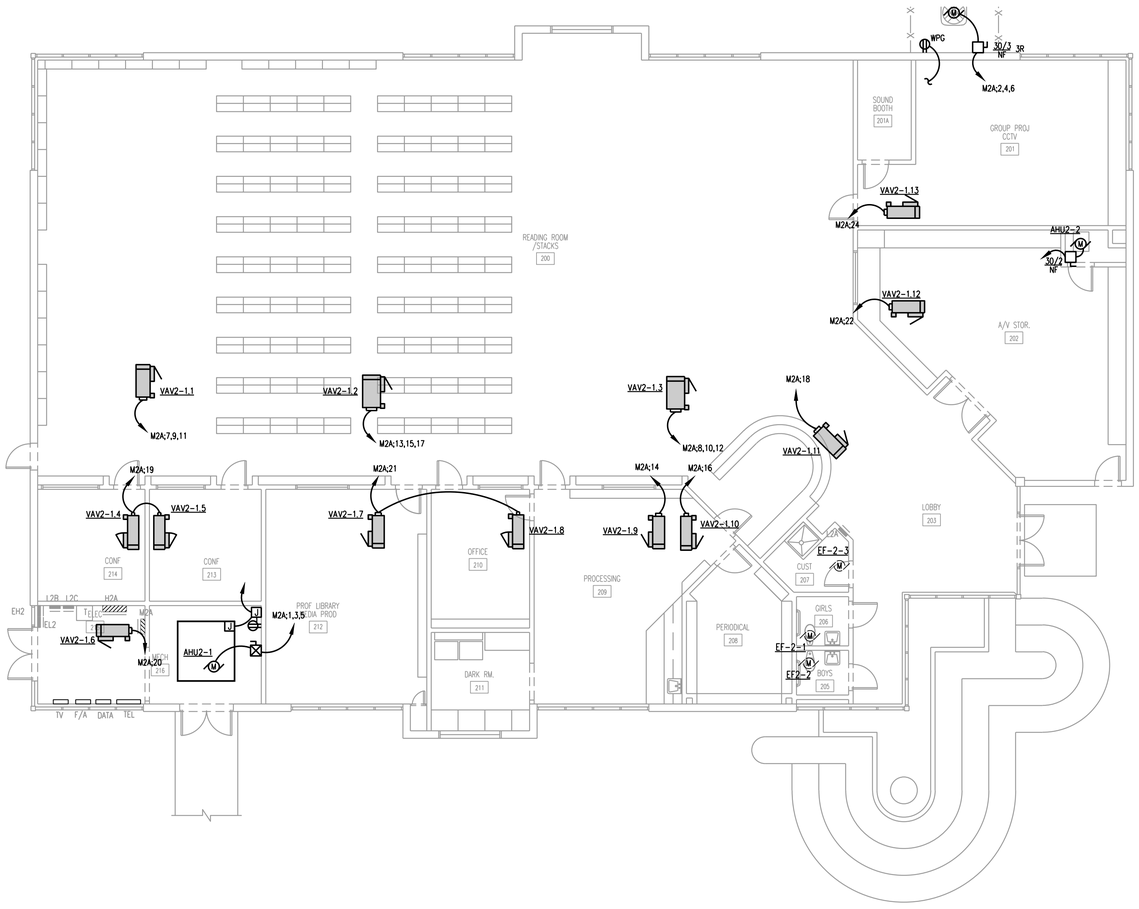
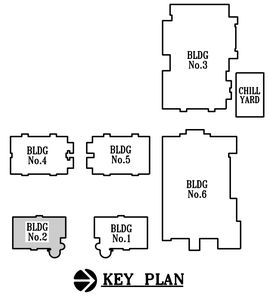


PHASE 1 - BUILDING 2 FLOOR PLAN - NEW - POWER

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

NOT FOR CONSTRUCTION



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Seal:

KYRIAKOS G. VLATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 1 - BUILDING 2
FLOOR PLAN - NEW -
POWER

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P1-E2-2.DWG

Drawing Number:

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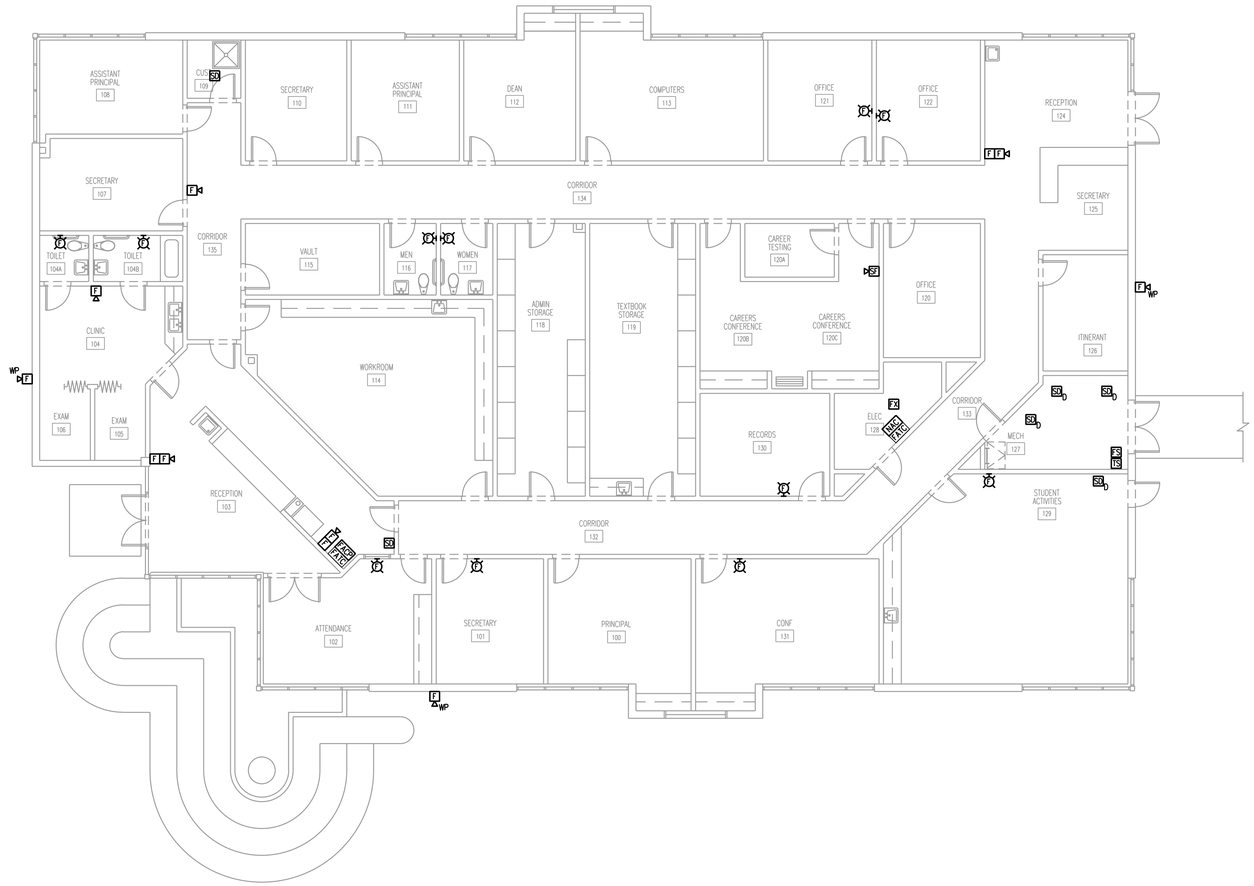
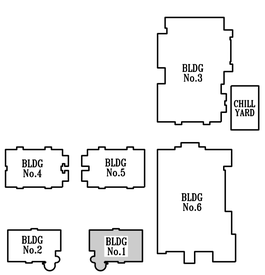


PHASE 1 - BUILDING 1 FLOOR PLAN - NEW - FIRE ALARM

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

NOT FOR CONSTRUCTION



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Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 1 - BUILDING 1
FLOOR PLAN - NEW -
FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P1-E3-1.DWG

Drawing Number:

P1-E3-1

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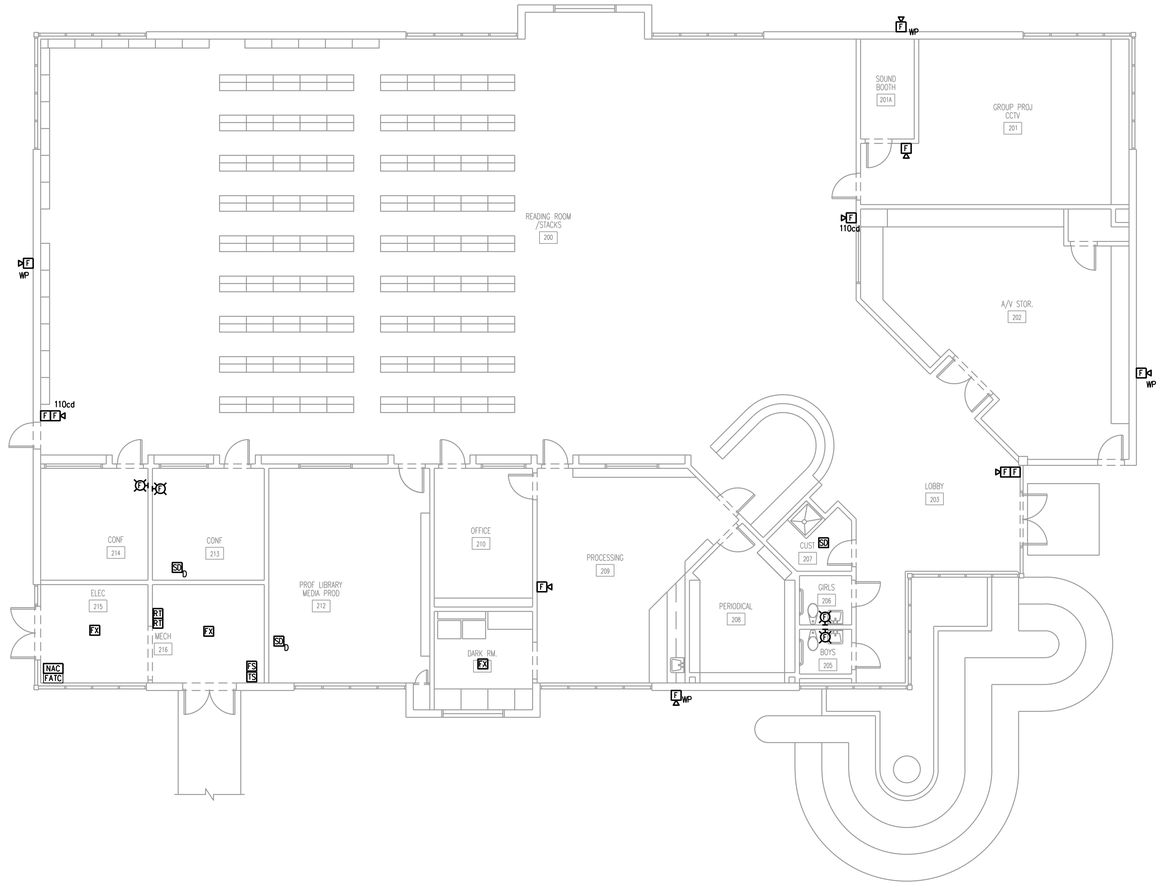
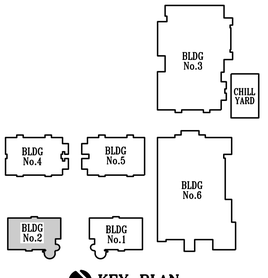


PHASE 1 - BUILDING 2 FLOOR PLAN - NEW - FIRE ALARM

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

NOT FOR CONSTRUCTION



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FL. REG. NO.: PE66402

Sheet Title:
PHASE 1 - BUILDING 2
FLOOR PLAN - NEW -
FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P1-E3-2.DWG

Drawing Number:

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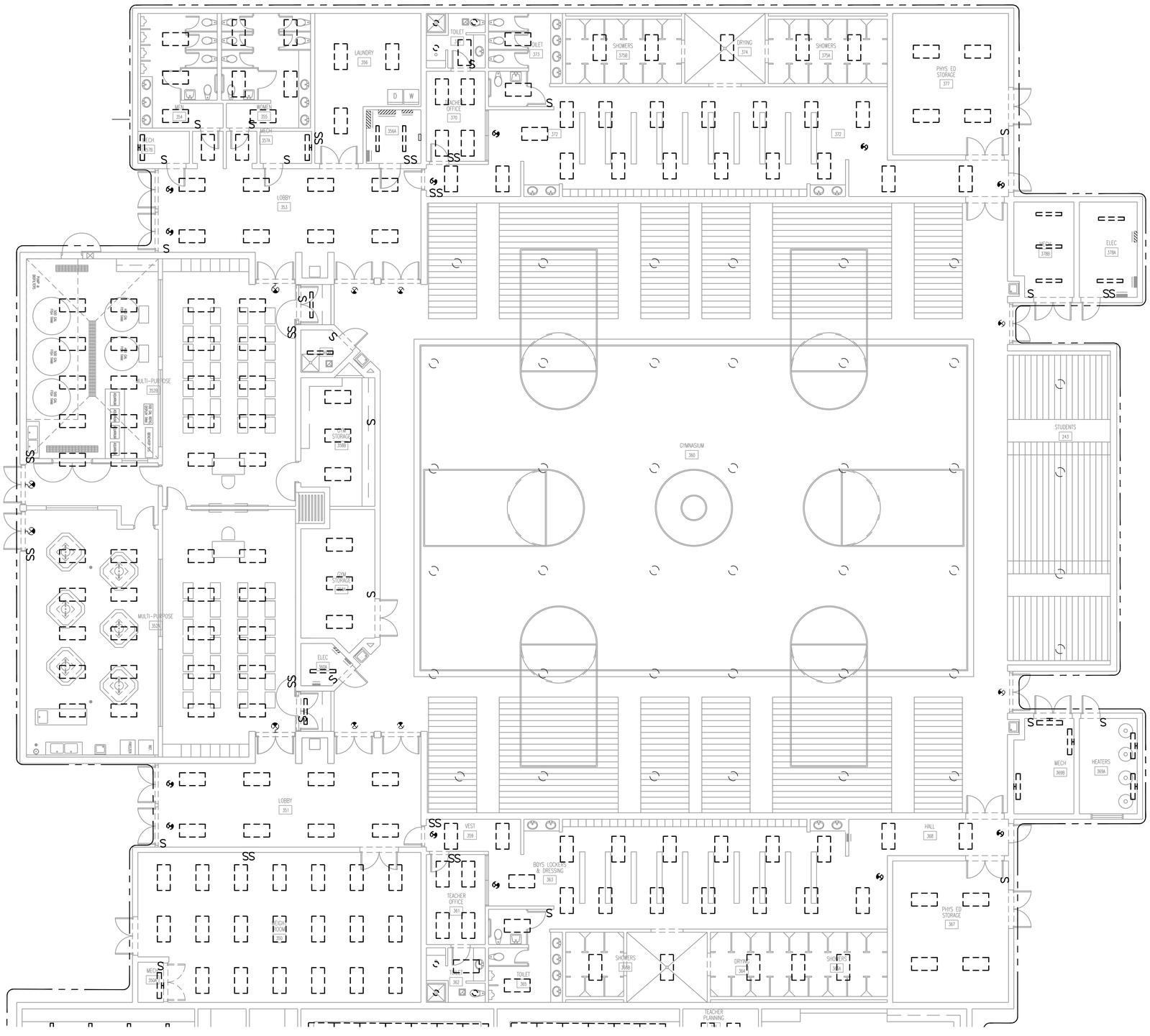
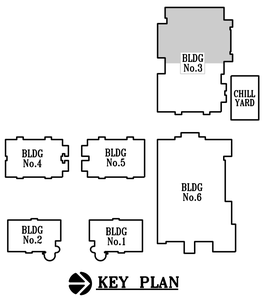


PHASE 2 - BUILDING 3 PARTIAL PLAN - DEMO - LIGHTING

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



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MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 3 PARTIAL PLAN - DEMO - LIGHTING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-ED1-3A.DWG

Drawing Number:

P2-ED1-3a

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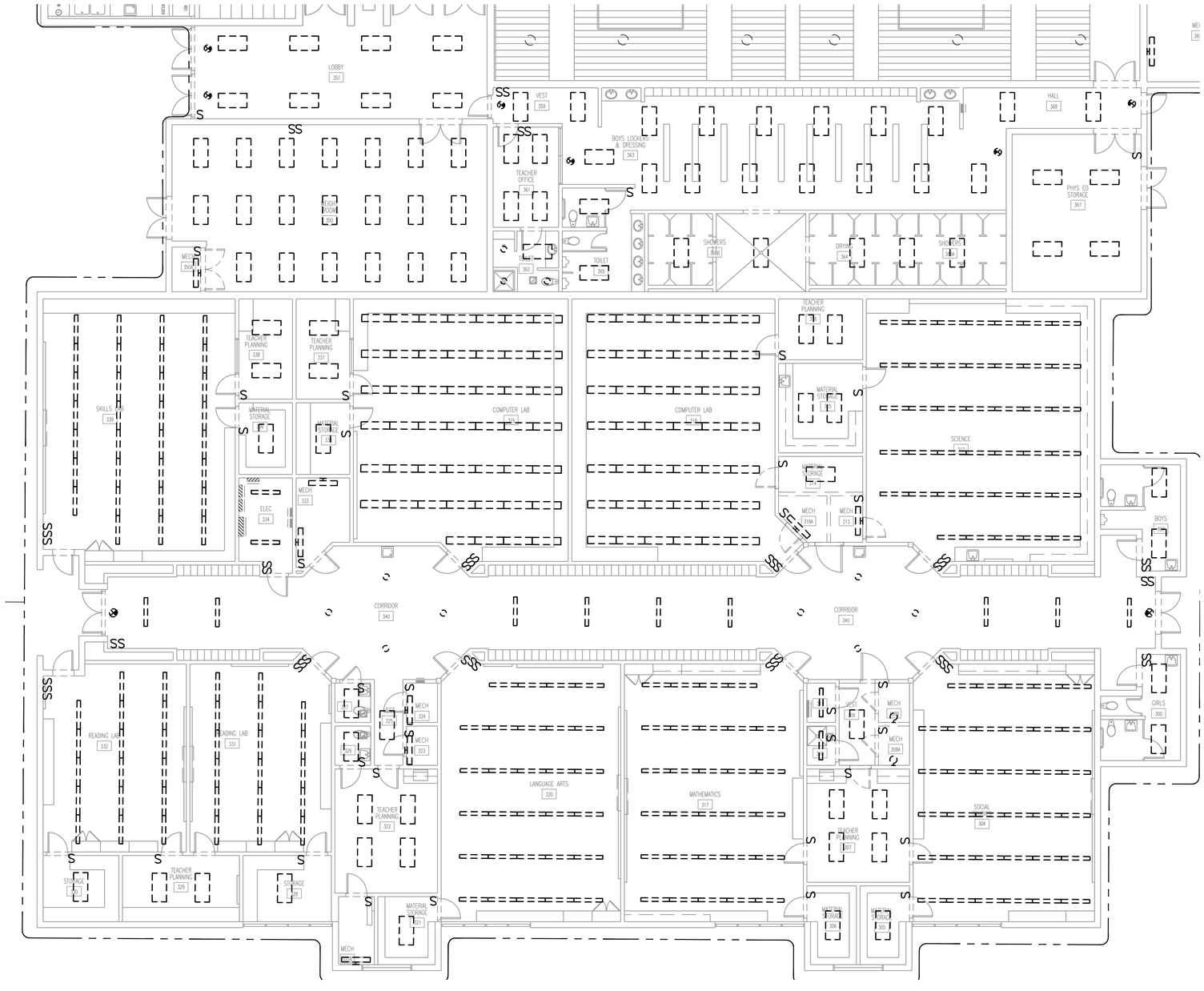
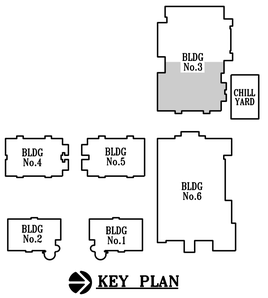


PHASE 2 - BUILDING 3 PARTIAL PLAN - DEMO - LIGHTING

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

NOT FOR CONSTRUCTION



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Client:

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FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 3
PARTIAL PLAN - DEMO - LIGHTING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-ED1-3B.DWG

Drawing Number:

P2-ED1-3b

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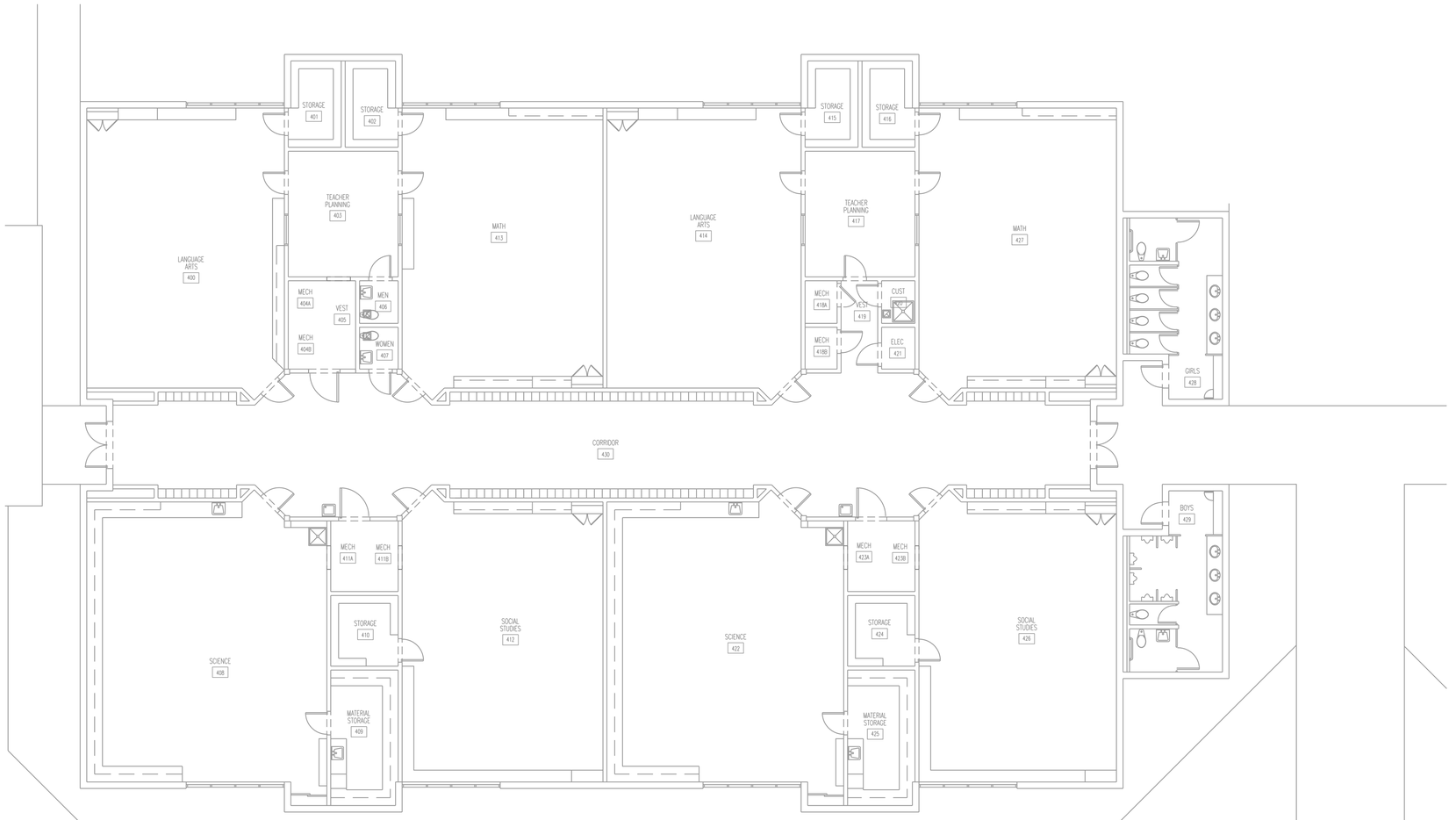
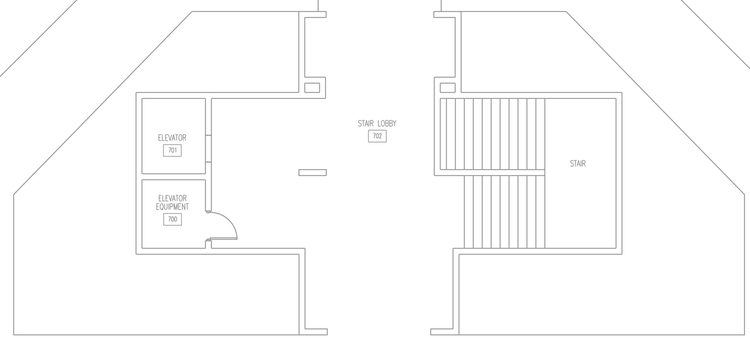
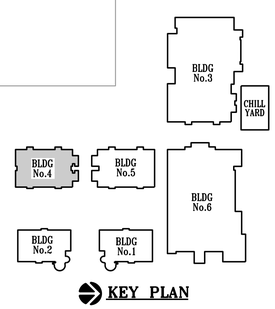




NOT FOR CONSTRUCTION

PHASE 2 - BUILDING 4 1ST FLOOR PLAN - DEMO - LIGHTING

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



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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 4
1ST FLOOR PLAN - DEMO - LIGHTING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-ED1-4.DWG

Drawing Number:

P2-ED1-4

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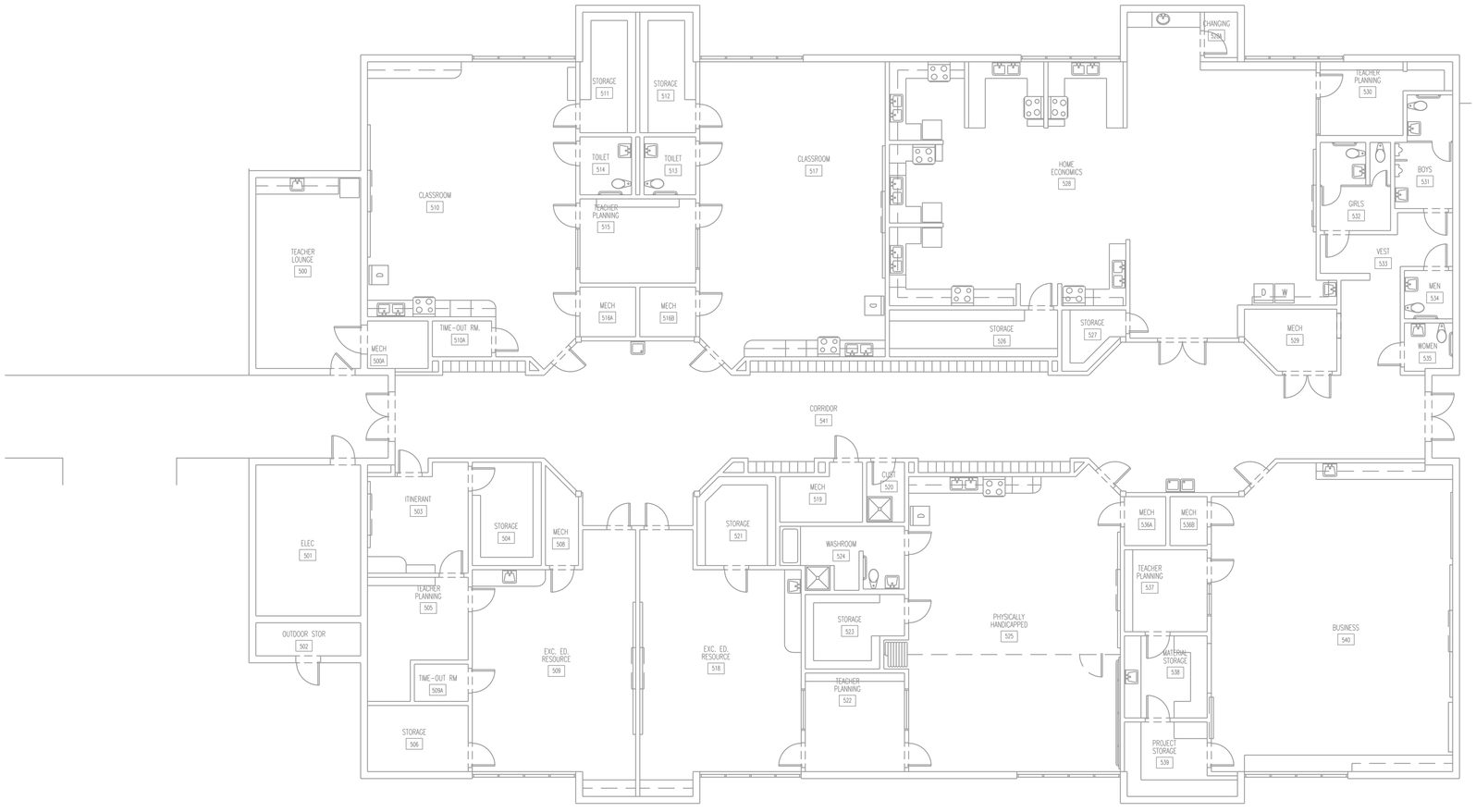
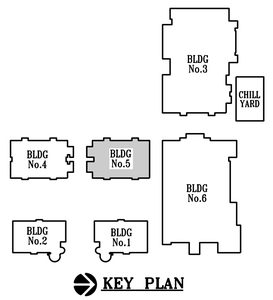


PHASE 2 - BUILDING 5 1ST FLOOR PLAN - DEMO - LIGHTING

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

NOT FOR CONSTRUCTION



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FORT PIERCE, FL 34981

Seal:

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MAITLAND, FL. 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 5
1ST FLOOR PLAN - DEMO - LIGHTING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-ED1-5.DWG

Drawing Number:

P2-ED1-5

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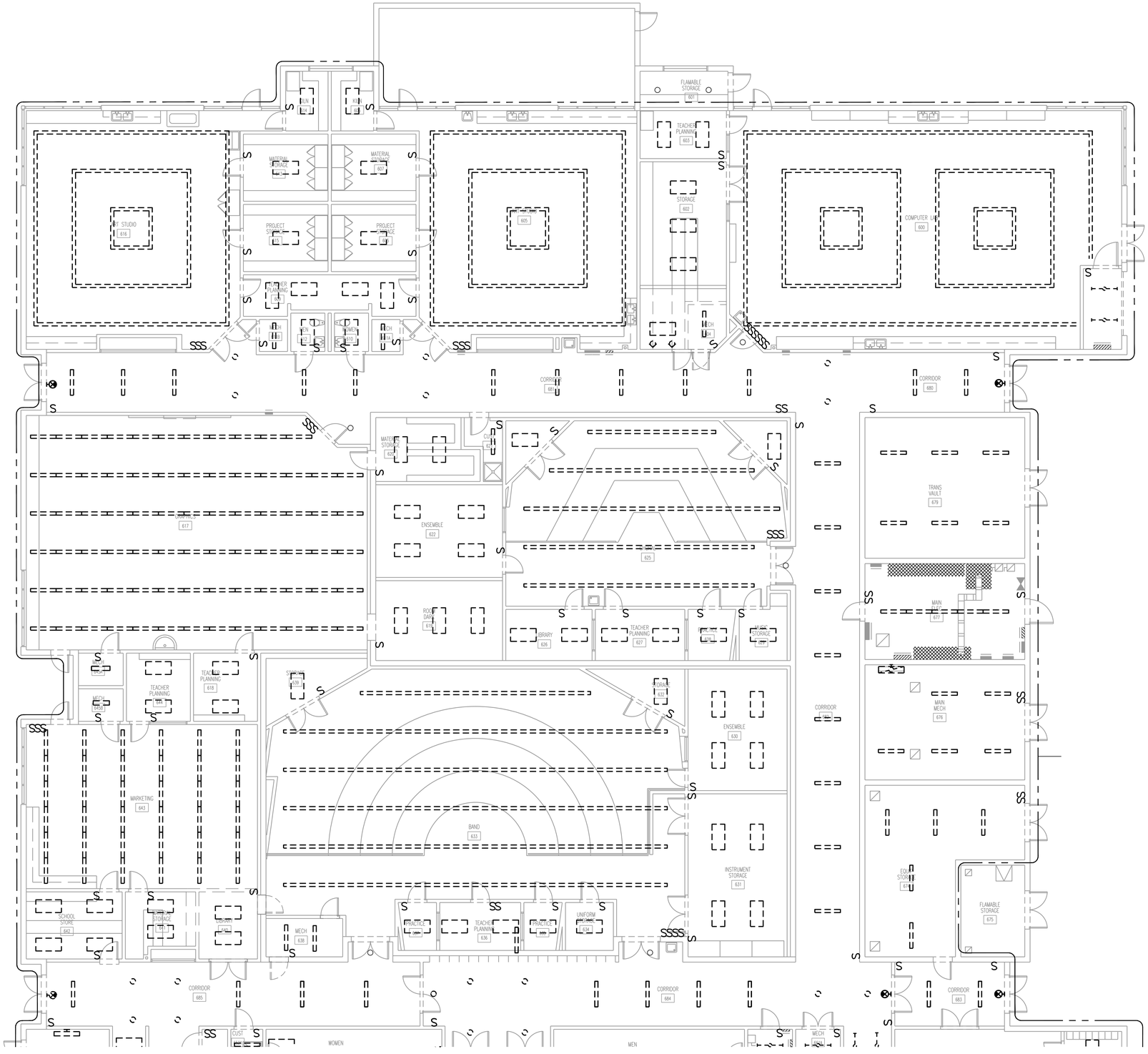
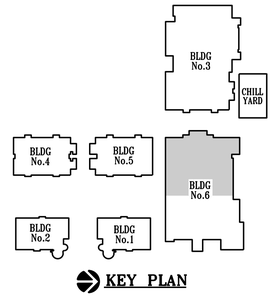


PHASE 2 - BUILDING 6 PARTIAL PLAN - DEMO - LIGHTING

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



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FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 6
PARTIAL PLAN - DEMO -
LIGHTING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-ED1-6A.DWG

Drawing Number:

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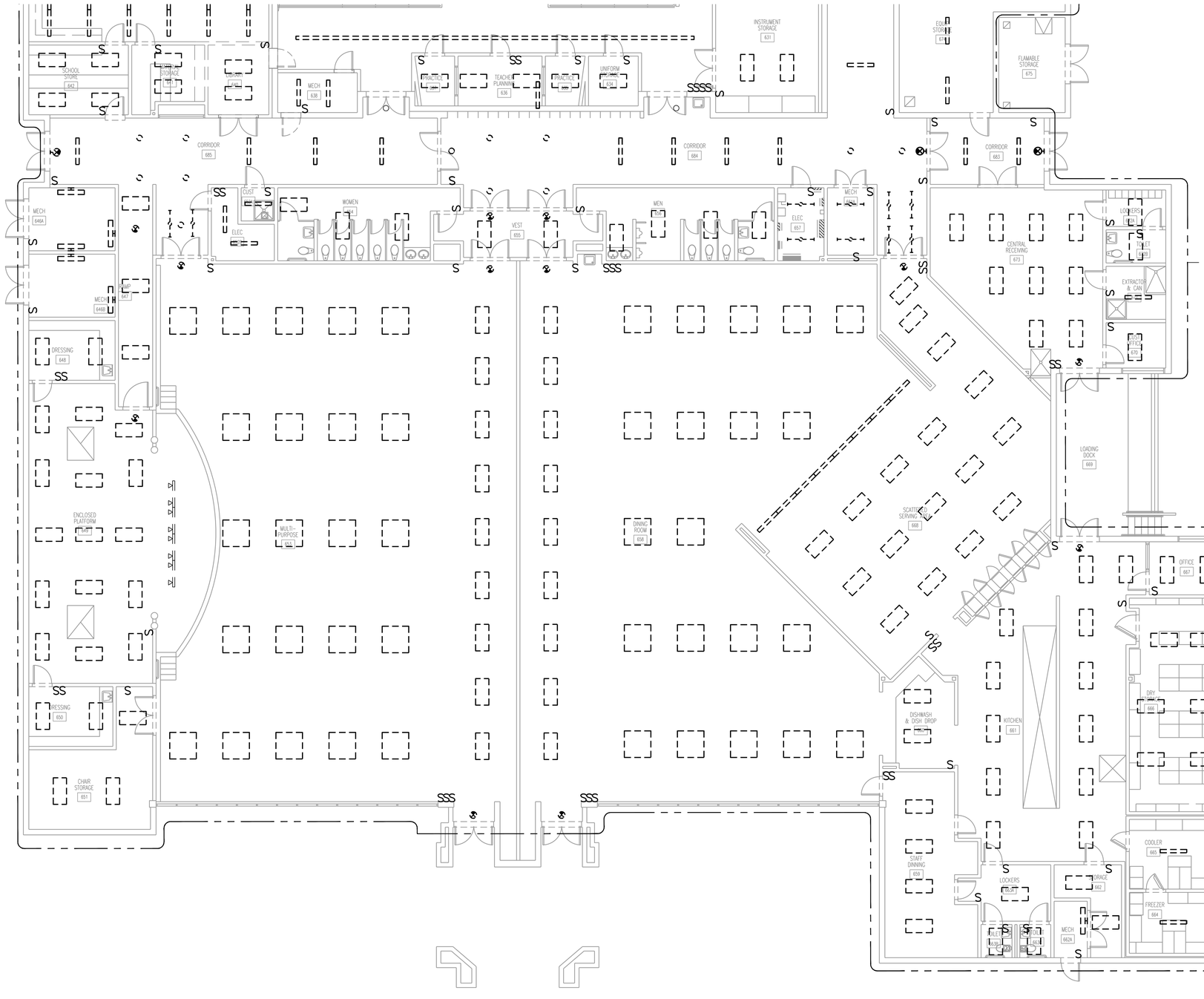
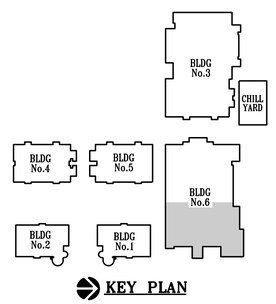


PHASE 2 - BUILDING 6 PARTIAL PLAN - DEMO - LIGHTING

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



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Sheet Title:
PHASE 2 - BUILDING 6
PARTIAL PLAN - DEMO -
LIGHTING

Date:	08/26/2022
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Drawn By:	AAK
Checked By:	KGL
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Drawing Number:

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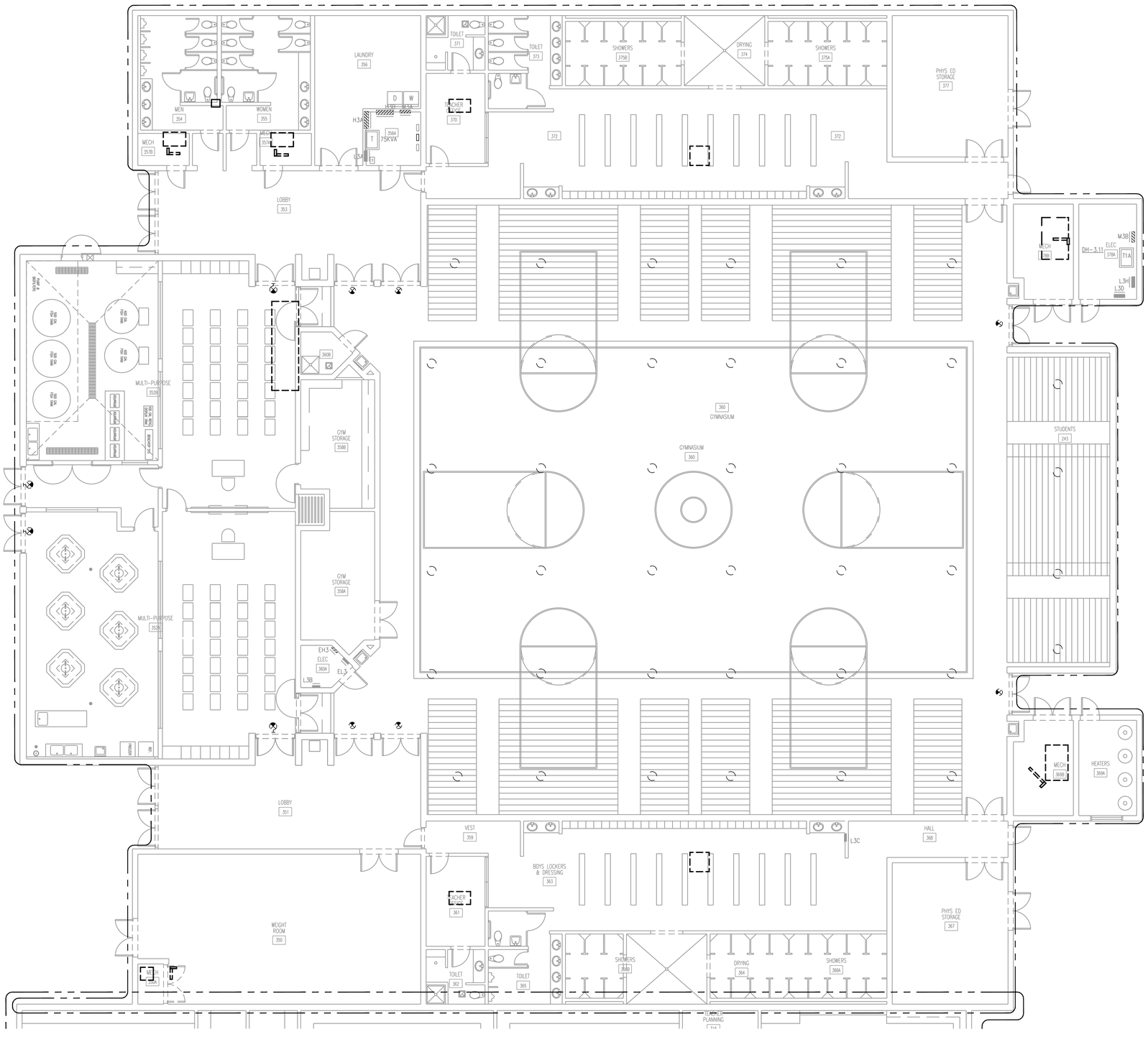
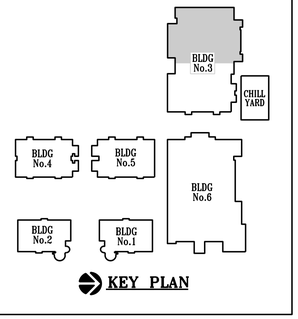


PHASE 2 - BUILDING 3 PARTIAL PLAN - DEMO - POWER

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

NOT FOR CONSTRUCTION



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FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 3
PARTIAL PLAN - DEMO - POWER

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-ED2-3A.DWG

Drawing Number:

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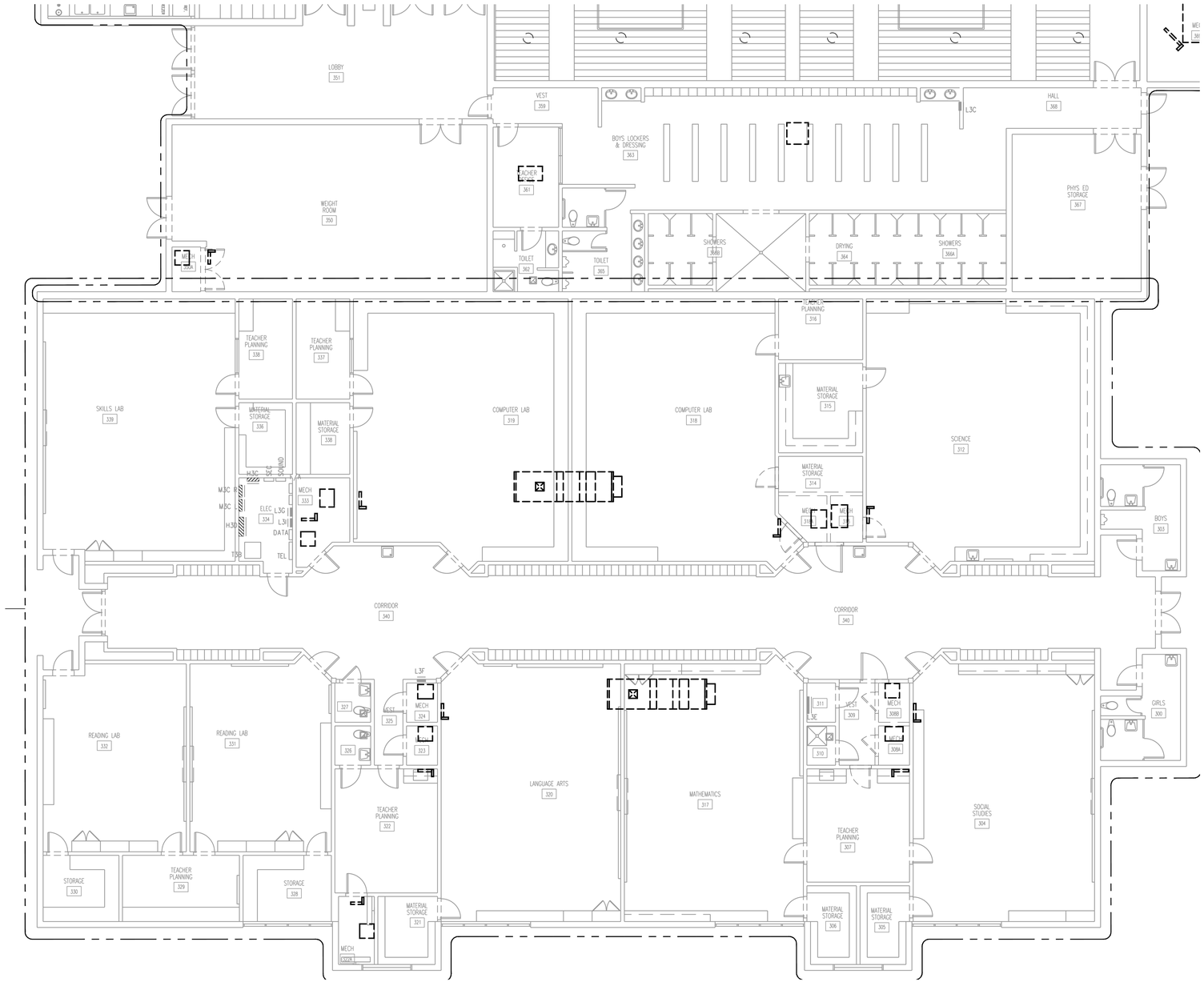

PHASE 2 - BUILDING 3 PARTIAL PLAN - DEMO - POWER

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

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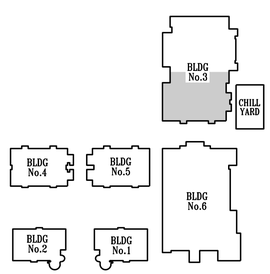

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PHASE 2 - BUILDING 3 PARTIAL PLAN - DEMO - POWER

Date:	08/26/2022
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Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-ED2-3B.DWG

Drawing Number:

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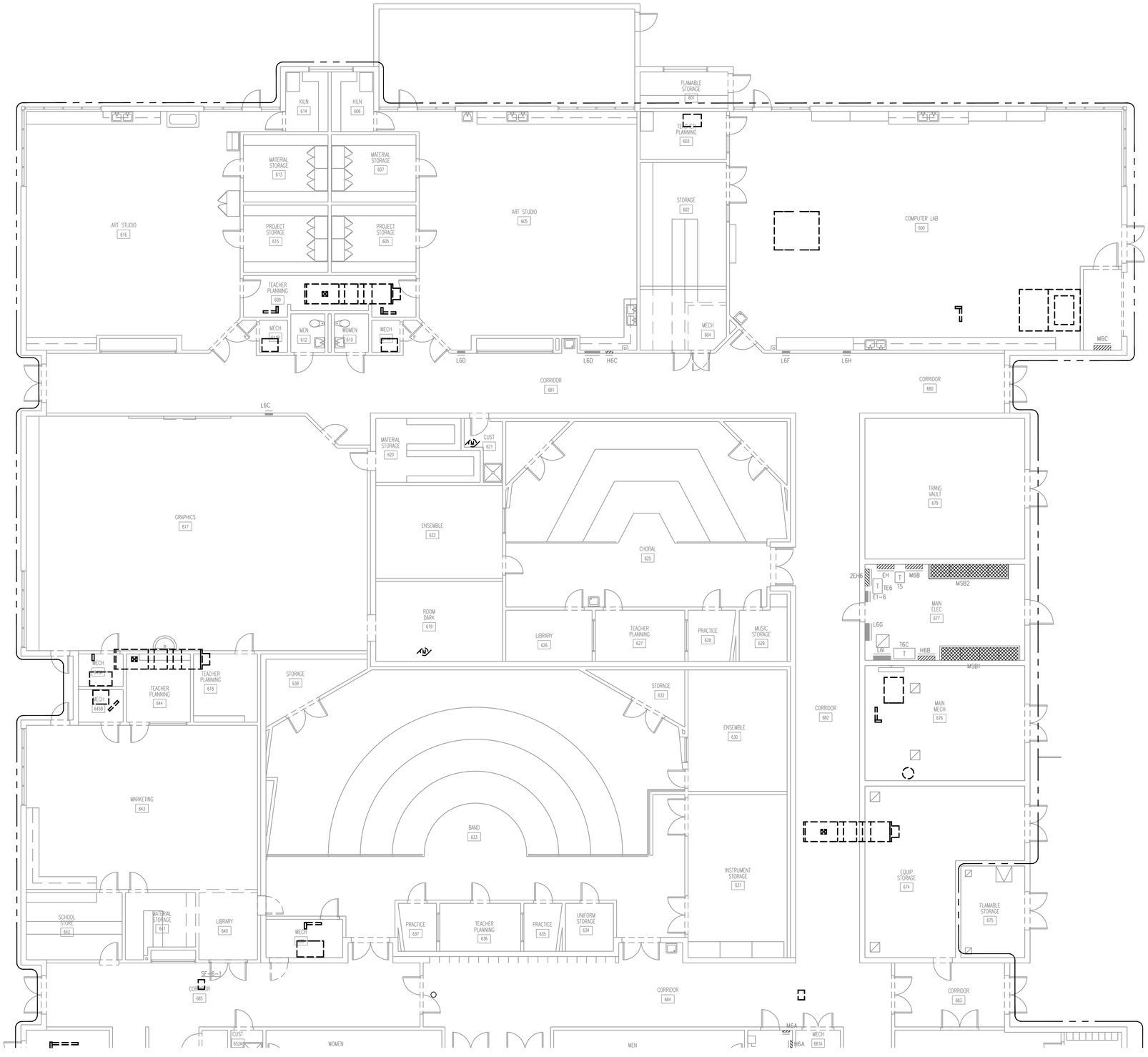
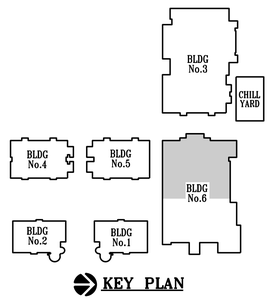


PHASE 2 - BUILDING 6 PARTIAL PLAN - DEMO - POWER

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



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FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 6
PARTIAL PLAN - DEMO -
POWER

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-ED2-6A.DWG

Drawing Number:

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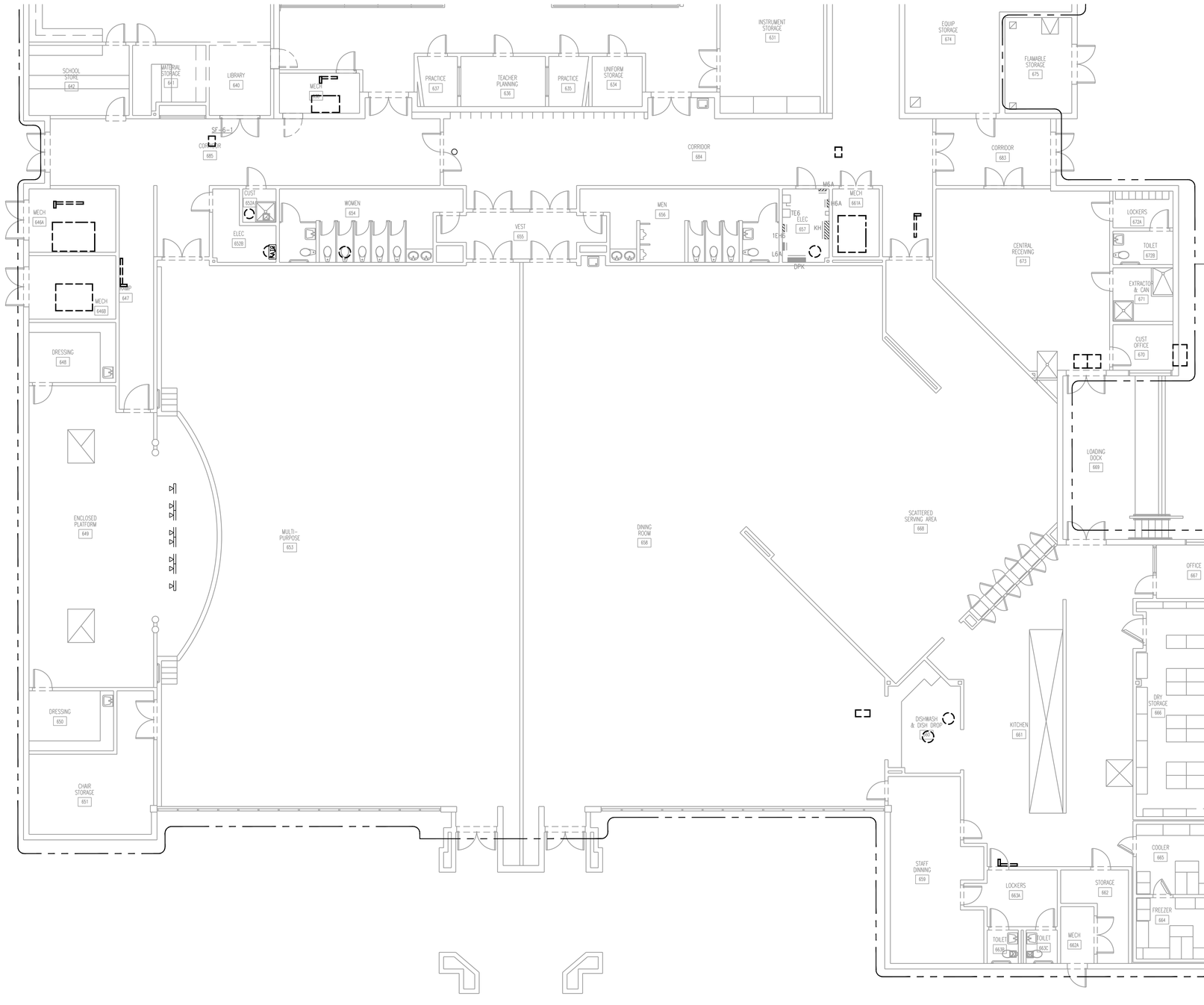

PHASE 2 - BUILDING 6 PARTIAL PLAN - DEMO - POWER

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

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Seal:

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FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 6
PARTIAL PLAN - DEMO - POWER

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
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Project Number:	22103
File Date:	4/19/2019
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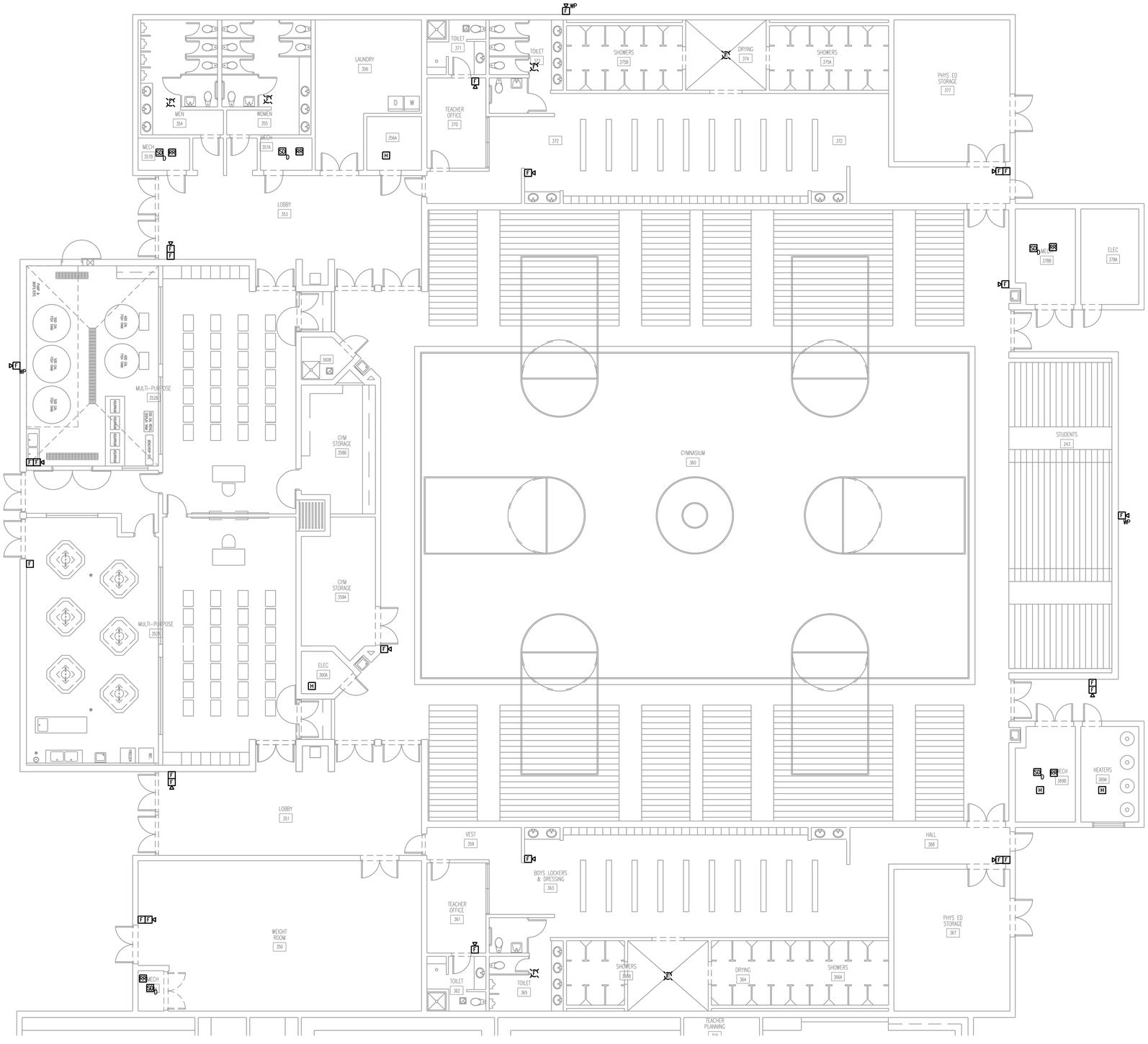
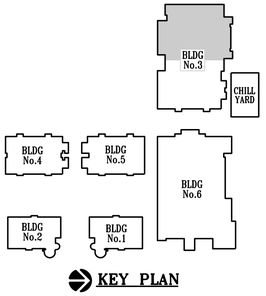


PHASE 2 - BUILDING 3 PARTIAL PLAN - DEMO - FIRE ALARM

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

NOT FOR CONSTRUCTION



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Seal:

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600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 3
PARTIAL PLAN - DEMO -
FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-ED3-3A.DWG

Drawing Number:

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PHASE 2 - BUILDING 3 PARTIAL PLAN - DEMO - FIRE ALARM

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

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FIRE ALARM

Date:	08/26/2022
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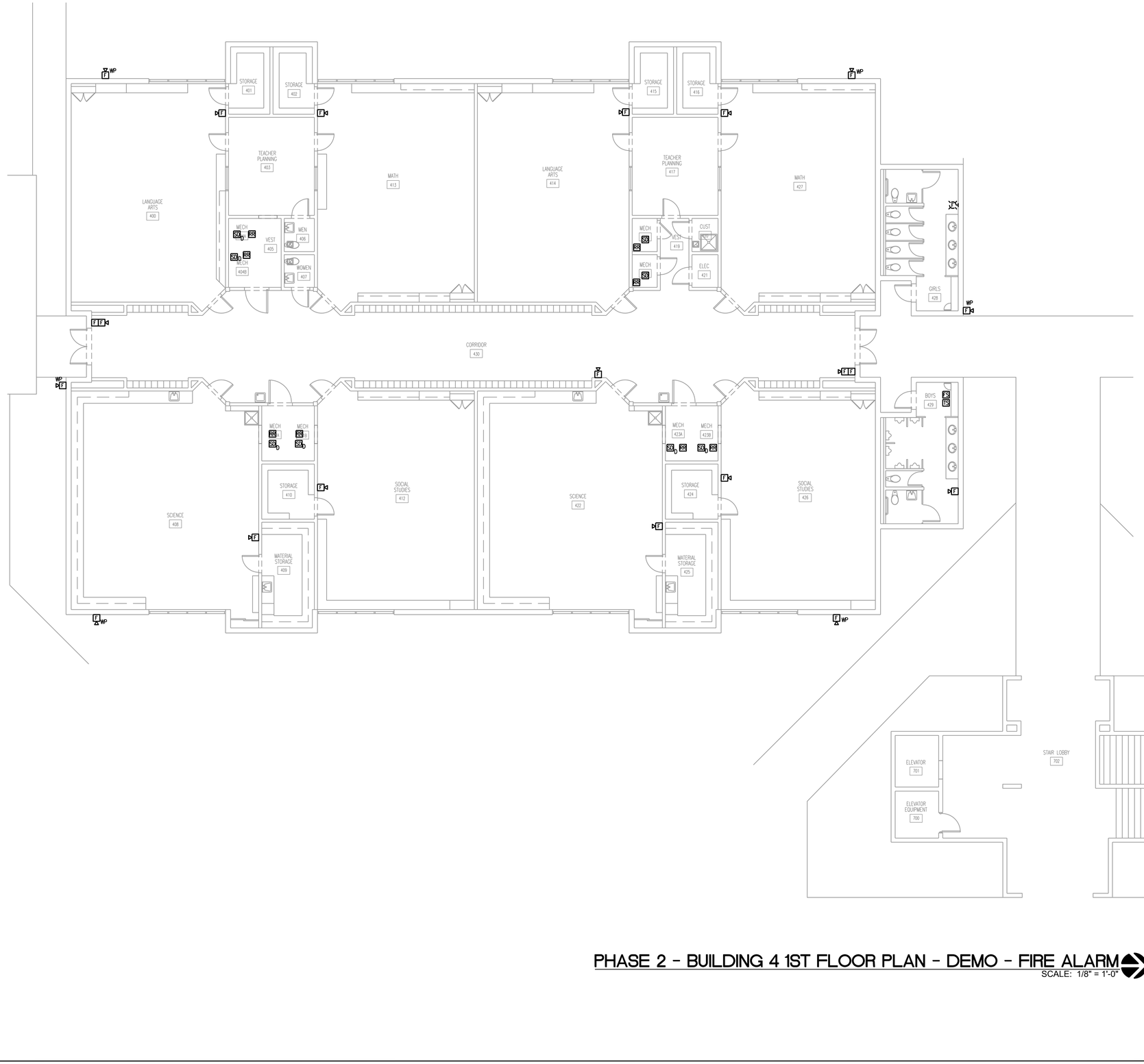

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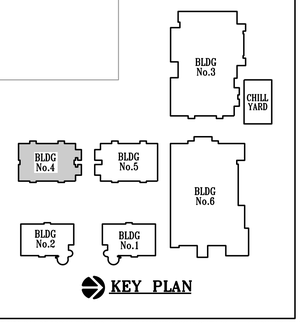
PHASE 2 - BUILDING 4 1ST FLOOR PLAN - DEMO - FIRE ALARM

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



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File Name:	22103P2-ED3-4A.DWG

Drawing Number:

P2-ED3-4a

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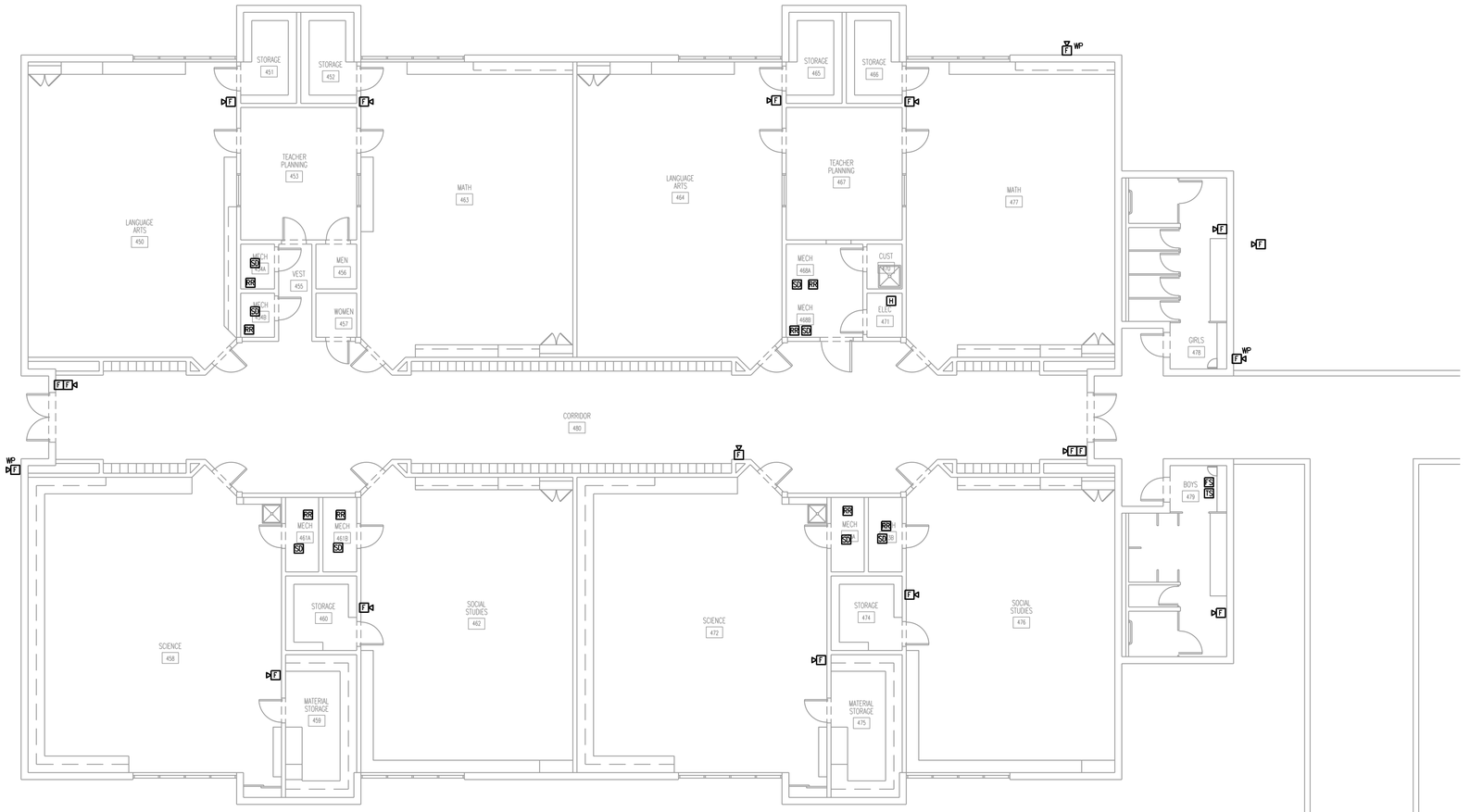
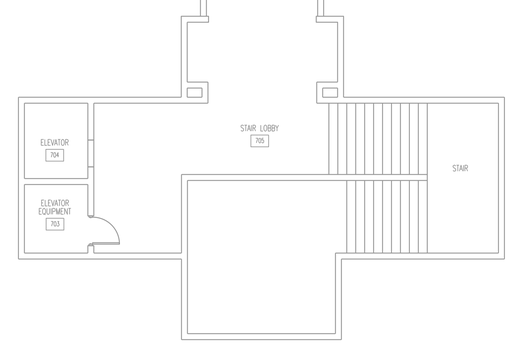
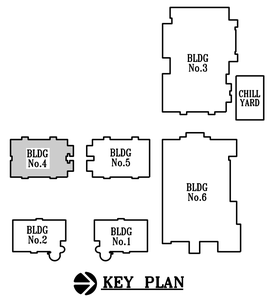




NOT FOR CONSTRUCTION

PHASE 2 - BUILDING 4 2ND FLOOR PLAN - DEMO - FIRE ALARM

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



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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL. 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 4
2ND FLOOR PLAN - DEMO -
FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-ED3-4B.DWG

Drawing Number:

P2-ED3-4b

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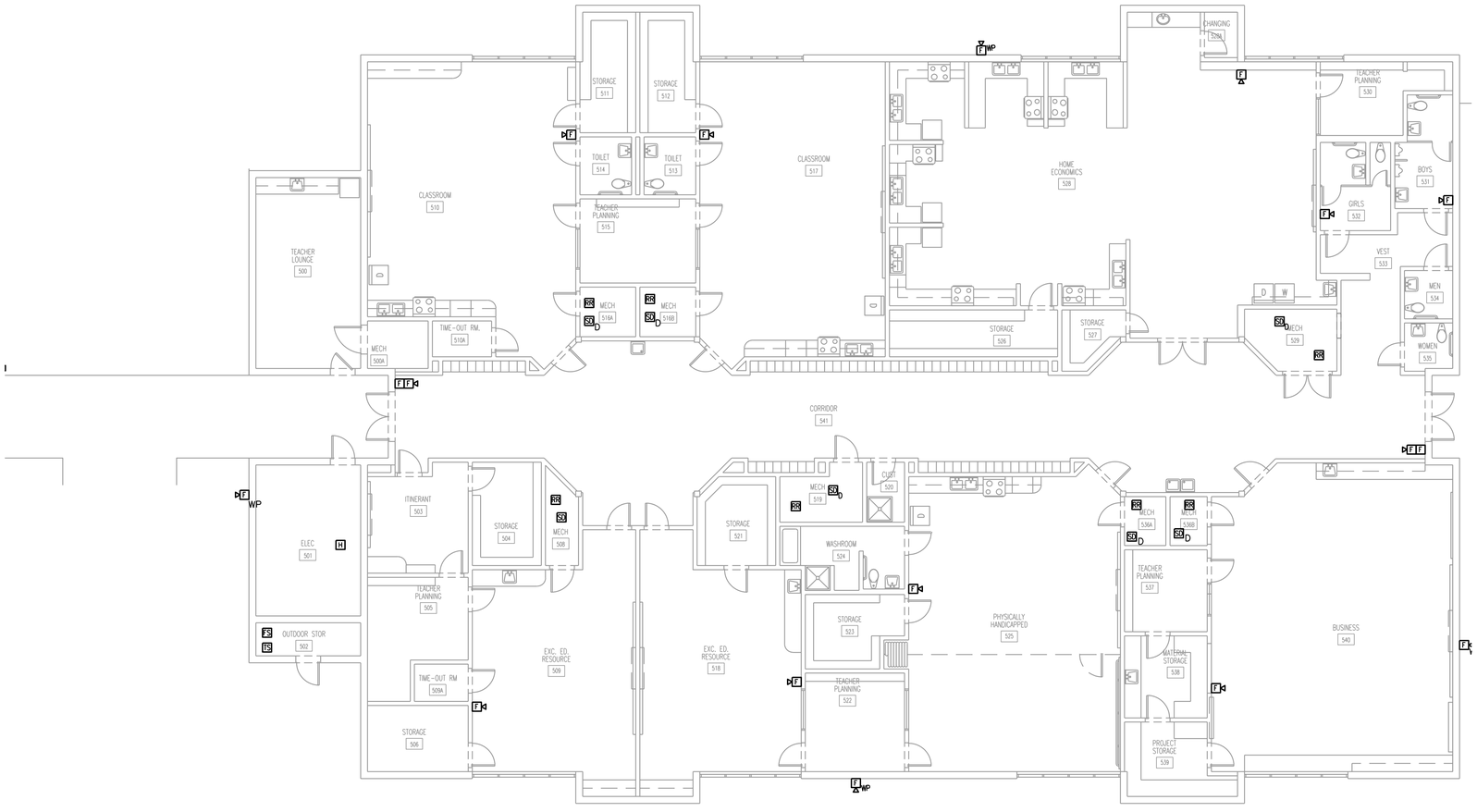
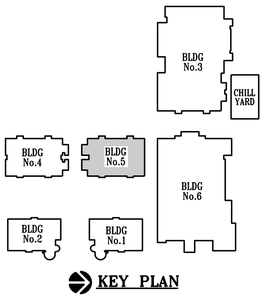


PHASE 2 - BUILDING 5 1ST FLOOR PLAN - DEMO - FIRE ALARM

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

NOT FOR CONSTRUCTION



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St. Lucie PUBLIC SCHOOLS

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FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL. 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 5
1ST FLOOR PLAN - DEMO -
FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-ED3-5A.DWG

Drawing Number:

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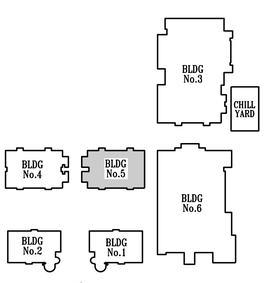
PHASE 2 - BUILDING 5 2ND FLOOR PLAN - DEMO - FIRE ALARM

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

NOT FOR CONSTRUCTION



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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL. 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 5
2ND FLOOR PLAN - DEMO -
FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-ED3-5B.DWG

Drawing Number:

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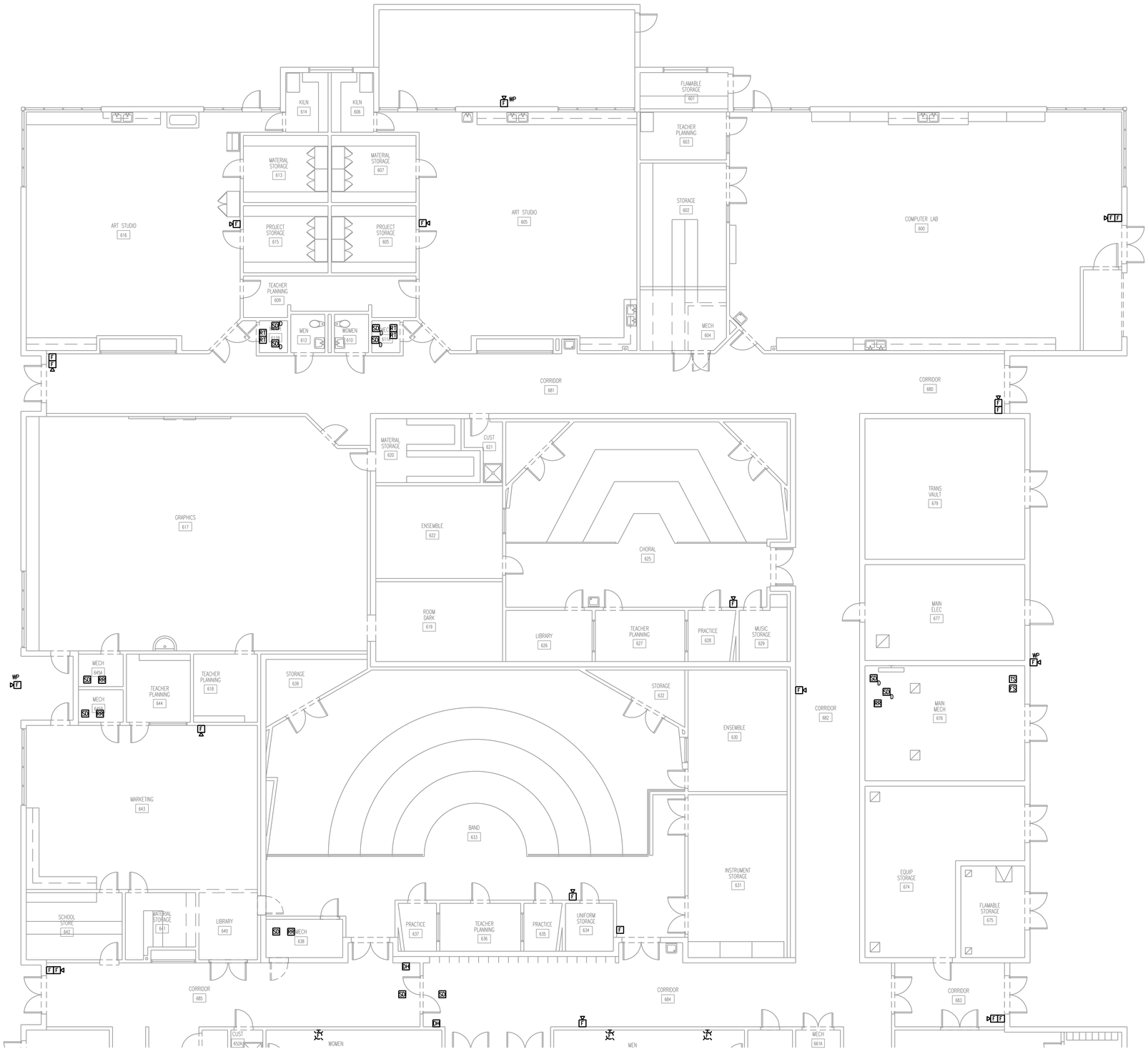
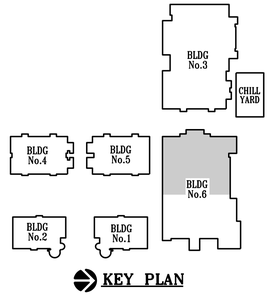


PHASE 2 - BUILDING 6 PARTIAL PLAN - DEMO - FIRE ALARM

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

NOT FOR CONSTRUCTION



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FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 6 PARTIAL PLAN - DEMO - FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-ED3-6A.DWG

Drawing Number:

P2-ED3-6a

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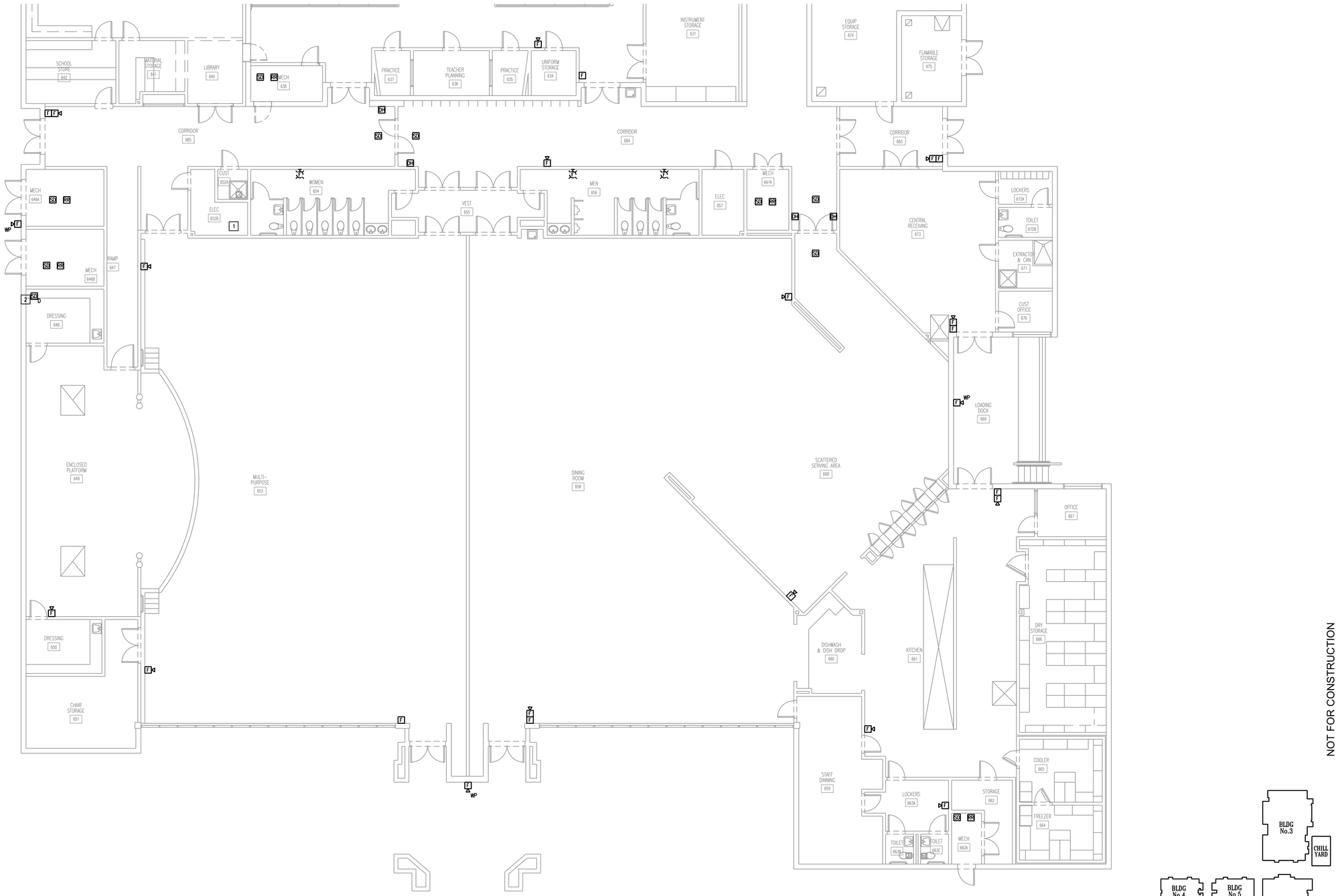

PHASE 2 - BUILDING 6 PARTIAL PLAN - DEMO - FIRE ALARM

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

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Seal:

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FL. REG. NO.: PE66402

Sheet Title:

PHASE 2 - BUILDING 6
PARTIAL PLAN - DEMO -
FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-ED3-6B.DWG

Drawing Number:

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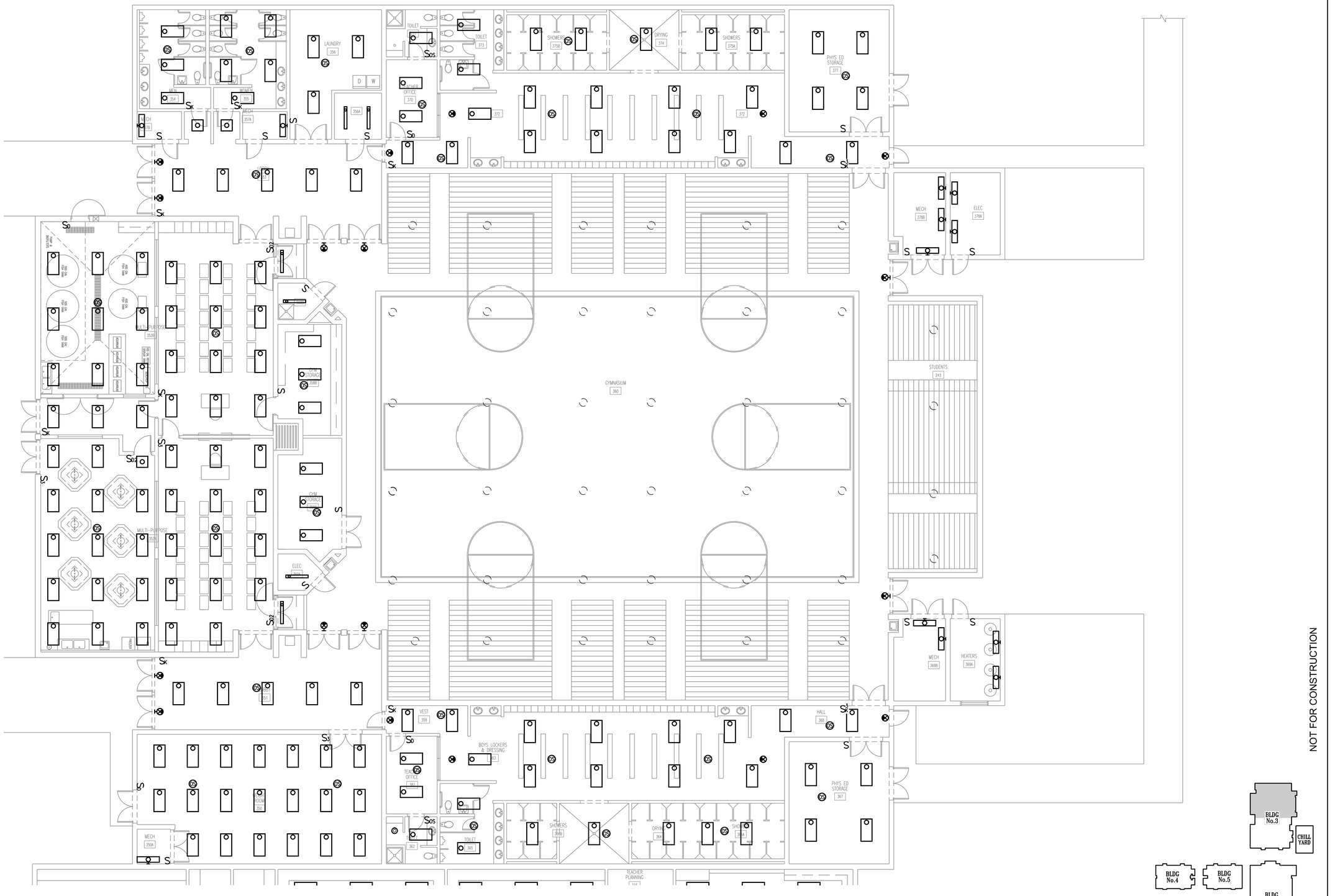

PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - LIGHTING

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

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Client:

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Project Title:

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3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - LIGHTING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E1-3A.DWG

Drawing Number:

P2-E1-3a

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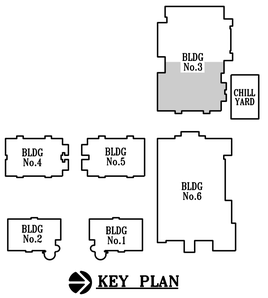
PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - LIGHTING

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

NOT FOR CONSTRUCTION



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Client:

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Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - LIGHTING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E1-3B.DWG

Drawing Number:

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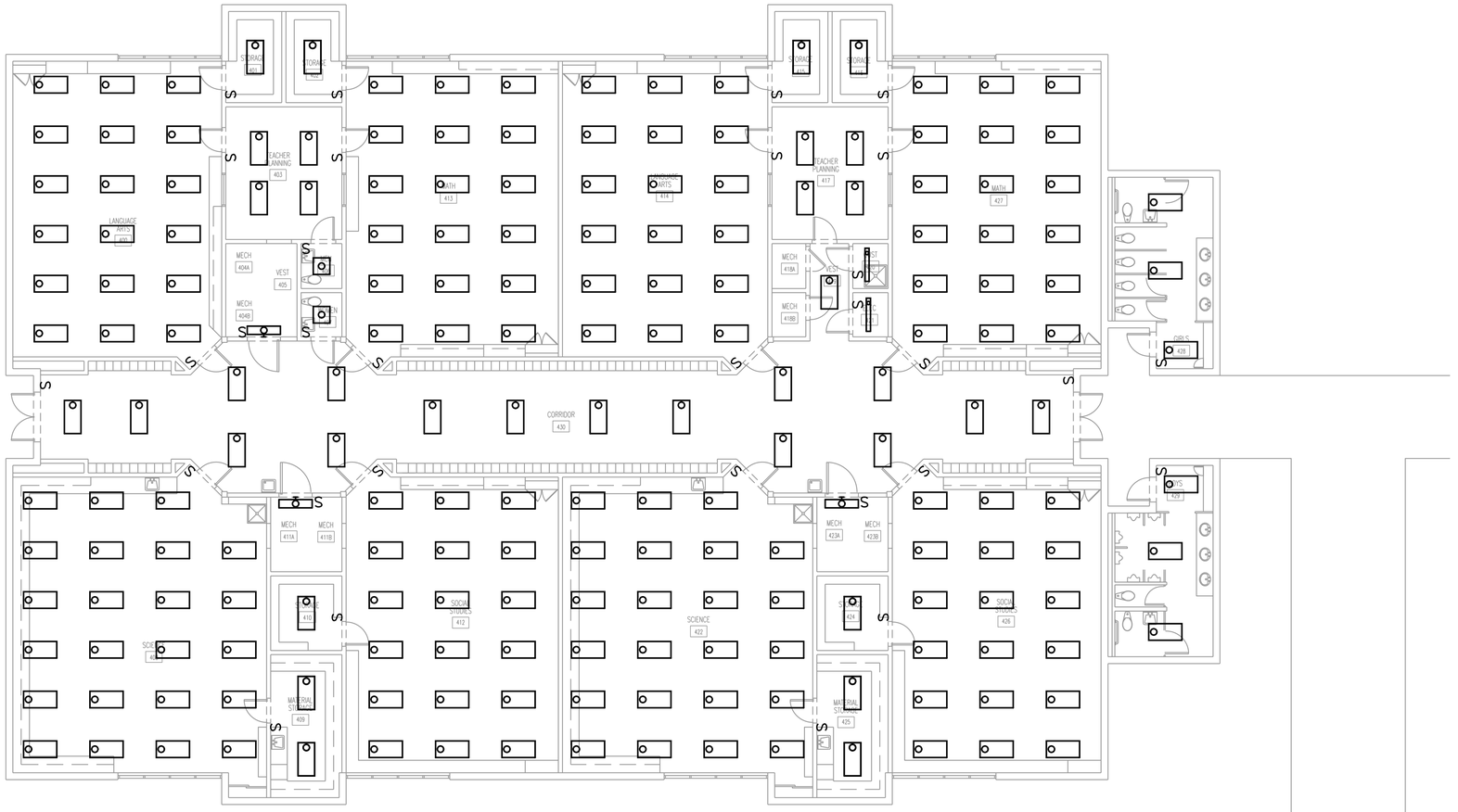
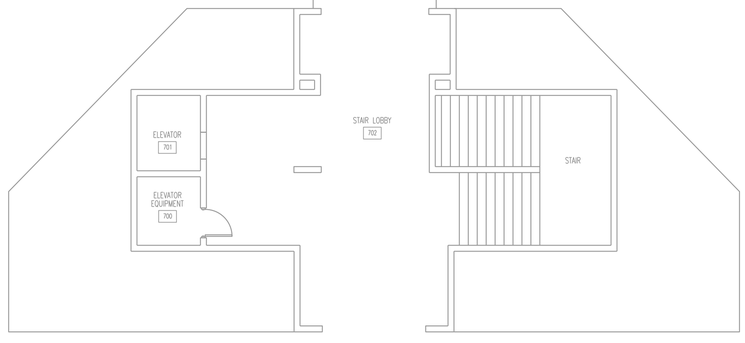
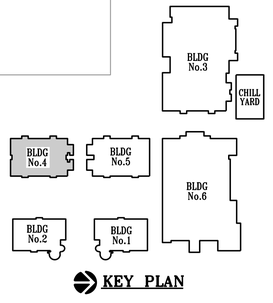




NOT FOR CONSTRUCTION

PHASE 2 - BUILDING 4 1ST FLOOR PLAN - NEW - LIGHTING

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



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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 4
1ST FLOOR PLAN - NEW - LIGHTING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E1-4A.DWG

Drawing Number:

P2-E1-4a

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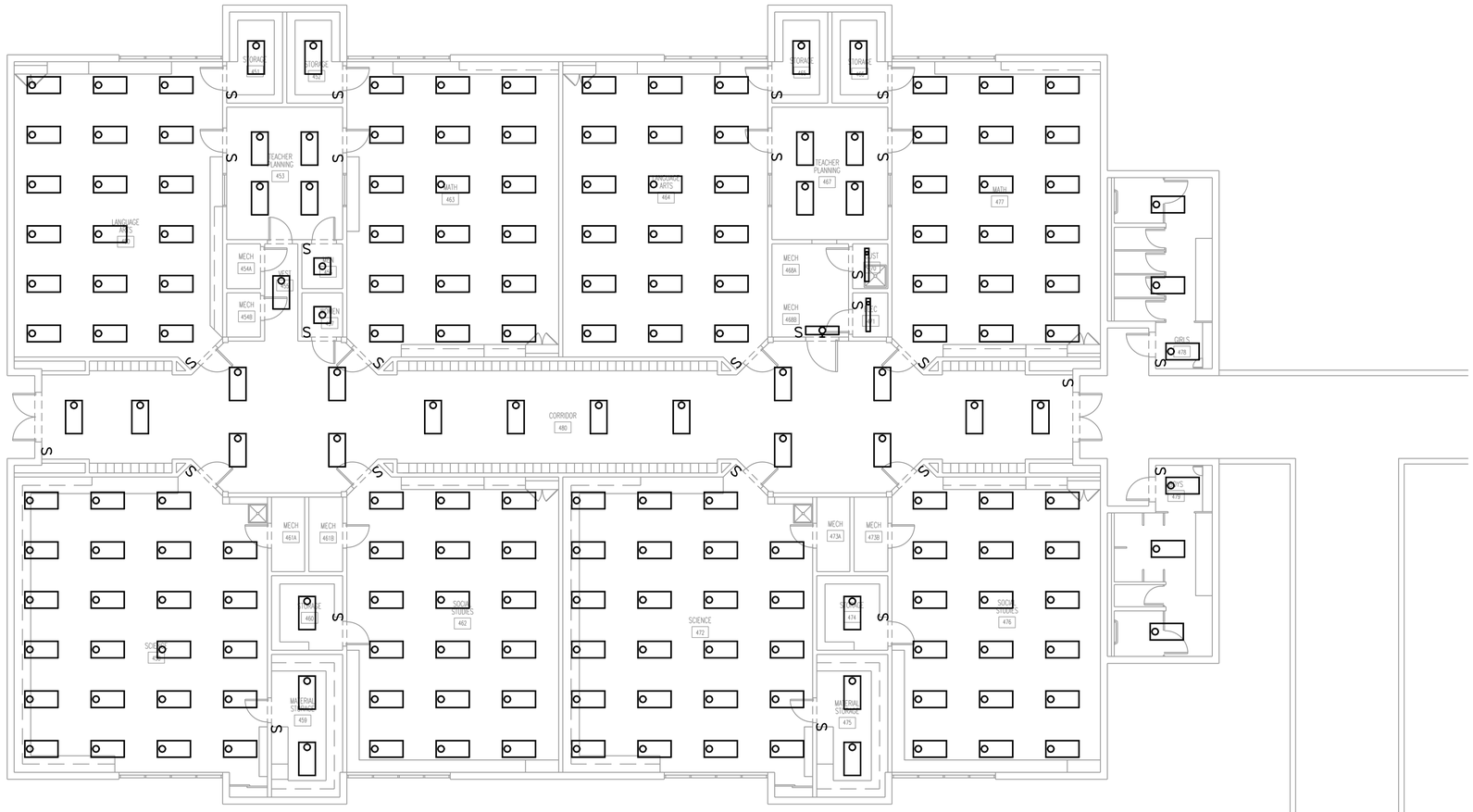
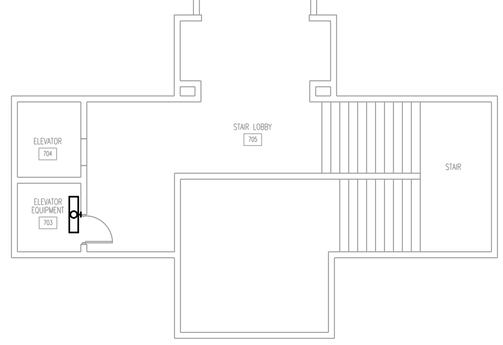
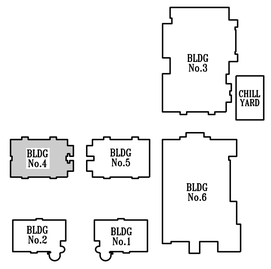




NOT FOR CONSTRUCTION

PHASE 2 - BUILDING 4 2ND FLOOR PLAN - NEW - LIGHTING

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



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No.	Date	Description

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3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL. 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 4
2ND FLOOR PLAN - NEW - LIGHTING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E1-4B.DWG

Drawing Number:

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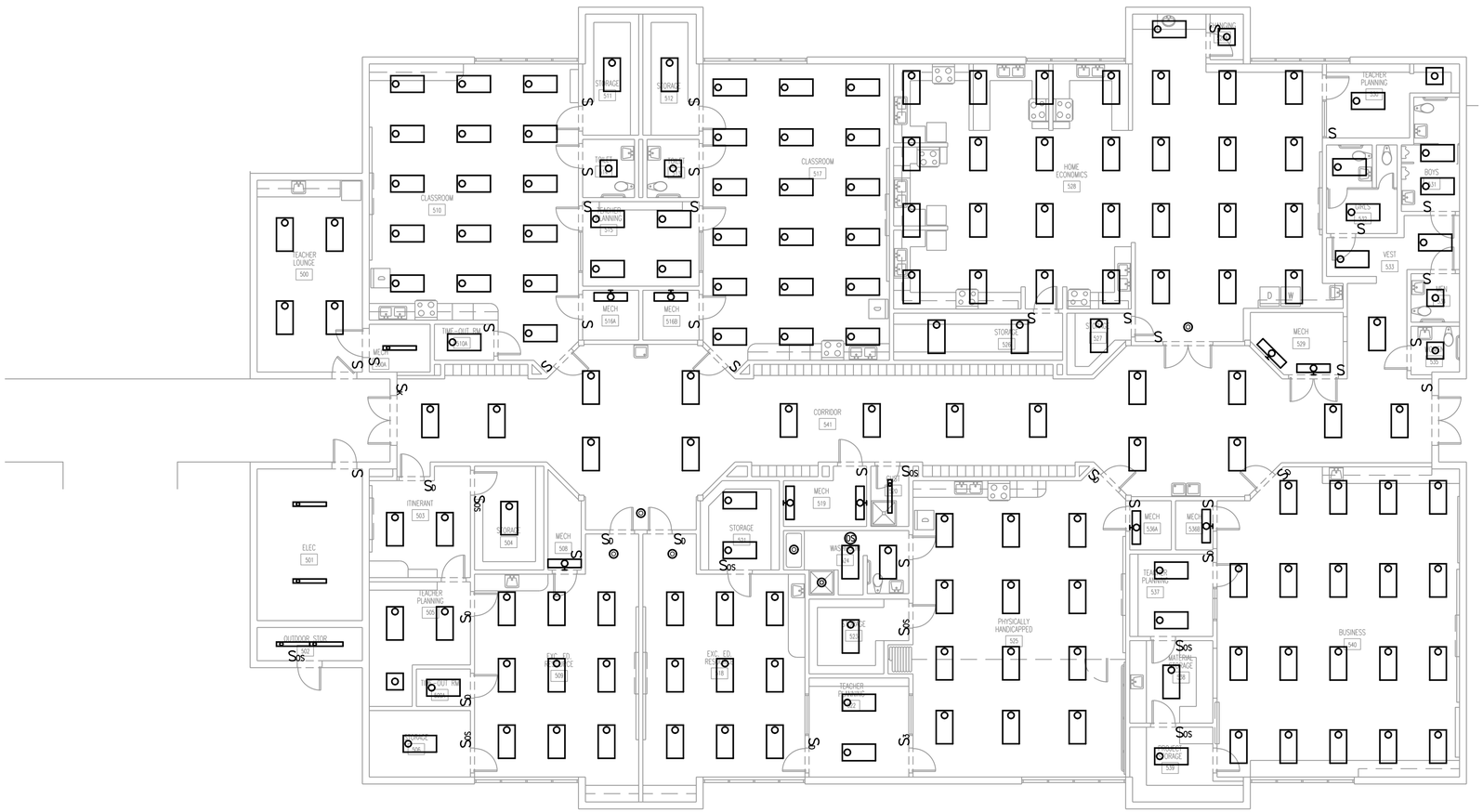
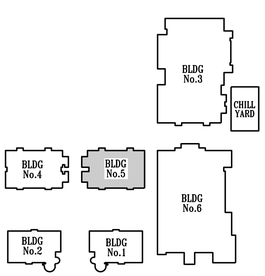


PHASE 2 - BUILDING 5 1ST FLOOR PLAN - NEW - LIGHTING

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



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FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 5
1ST FLOOR PLAN - NEW - LIGHTING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E1-5A.DWG

Drawing Number:

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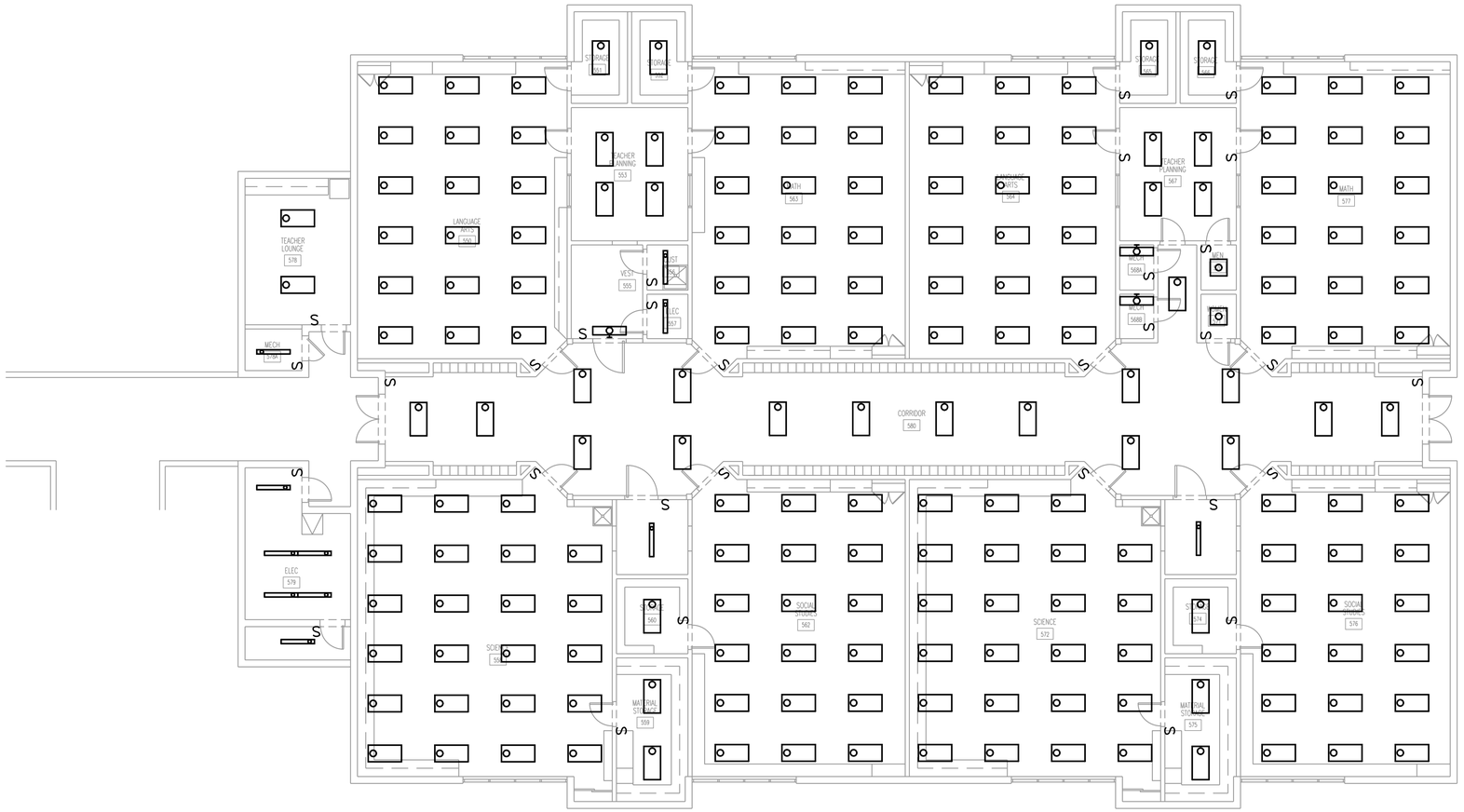
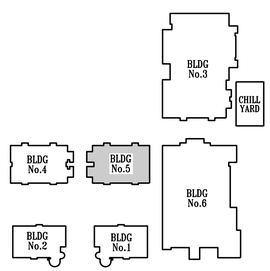


PHASE 2 - BUILDING 5 2ND FLOOR PLAN - NEW - LIGHTING

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

NOT FOR CONSTRUCTION



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St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 5
2ND FLOOR PLAN - NEW - LIGHTING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E1-5B.DWG

Drawing Number:

P2-E1-5b

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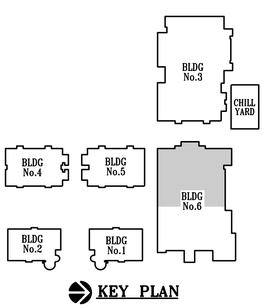
PRINT DATE:8/26/2022 3:13 PM SAVE DATE:8/25/2022 11:34 AM FILE LOCATION=J:\22 JOBS\22103 - SLPS FGMS AHU RETROFIT\DWGS\22103P2-E1-5B.DWG

PHASE 2 - BUILDING 6 PARTIAL PLAN - NEW - LIGHTING

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



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www.ociassociates.com

No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL - 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 6 PARTIAL PLAN - NEW - LIGHTING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E1-6A.DWG

Drawing Number:

P2-E1-6a

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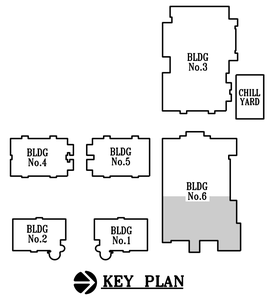
PHASE 2 - BUILDING 6 PARTIAL PLAN - NEW - LIGHTING

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



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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT

3201 S 25TH ST

FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:

PHASE 2 - BUILDING 6 PARTIAL PLAN - NEW - LIGHTING

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E1-6B.DWG

Drawing Number:

P2-E1-6b

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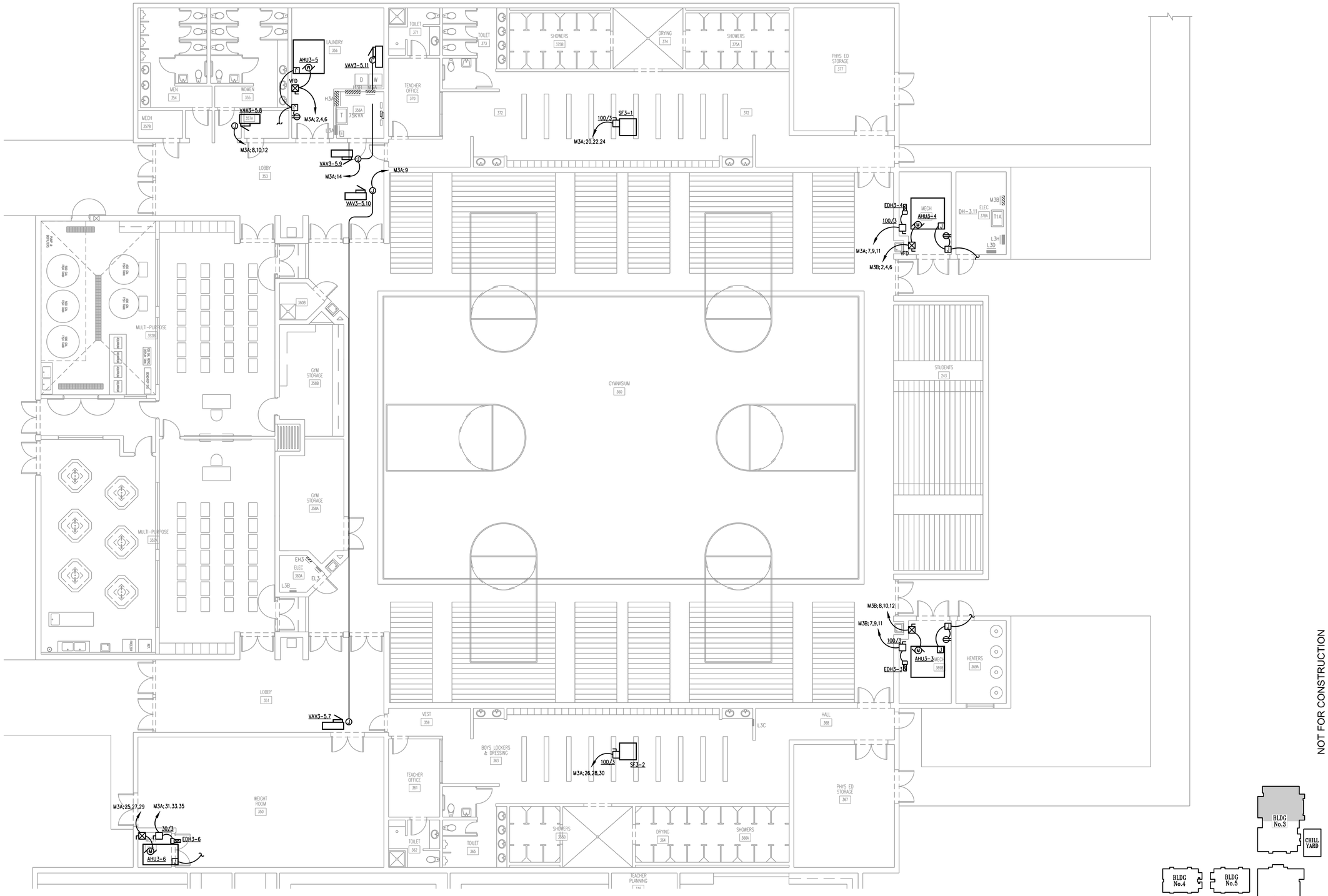

PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - POWER

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

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PRINT DATE:8/26/2022 3:14 PM SAVE DATE:8/25/2022 11:44 AM FILE LOCATION:J:\22 JOBS\22103 - SLPS FGMS AHU RETROFIT\DWGS\22103P2-E2-3A.DWG

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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - POWER

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E2-3A.DWG

Drawing Number:

P2-E2-3a

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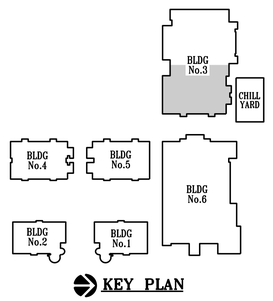
PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - POWER

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

NOT FOR CONSTRUCTION



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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL. 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - POWER

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E2-3B.DWG

Drawing Number:

P2-E2-3b

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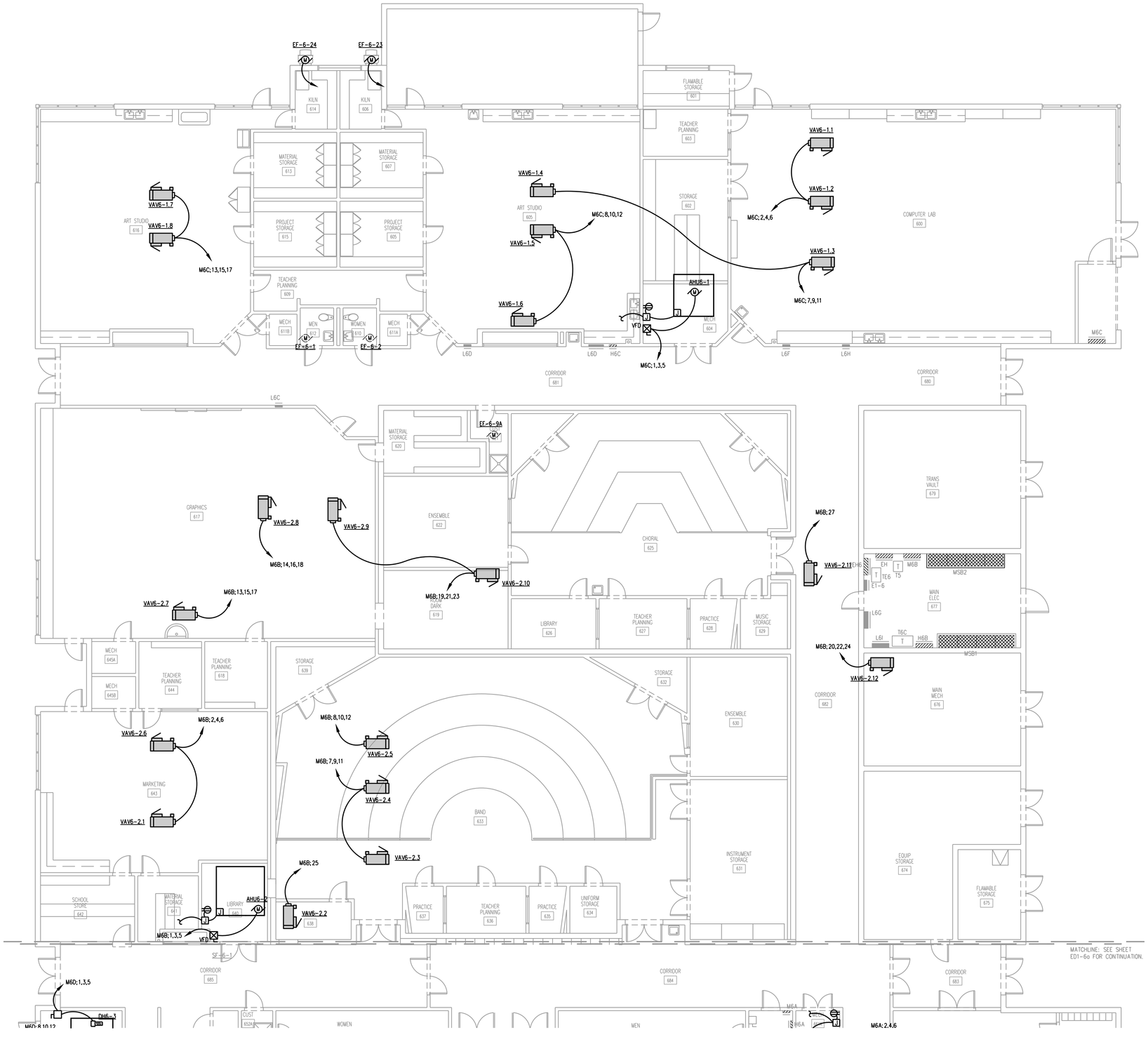
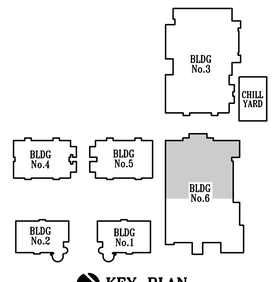


PHASE 2 - BUILDING 6 PARTIAL PLAN - NEW - POWER

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

NOT FOR CONSTRUCTION



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MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 6 PARTIAL PLAN - NEW - POWER

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E2-6A.DWG

Drawing Number:

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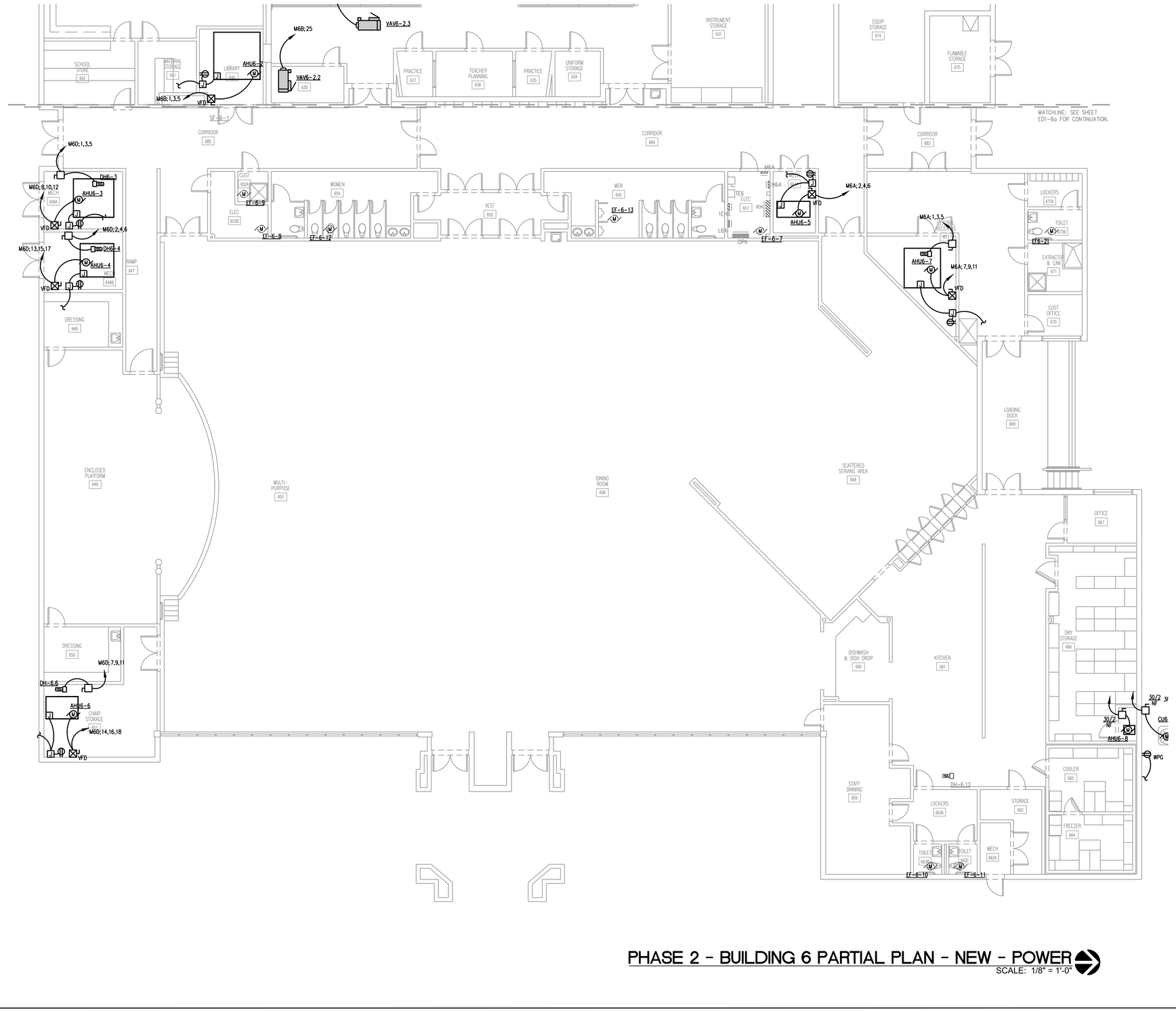

PHASE 2 - BUILDING 6 PARTIAL PLAN - NEW - POWER

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

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KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL. 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 6 PARTIAL PLAN - NEW - POWER

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E2-6B.DWG

Drawing Number:

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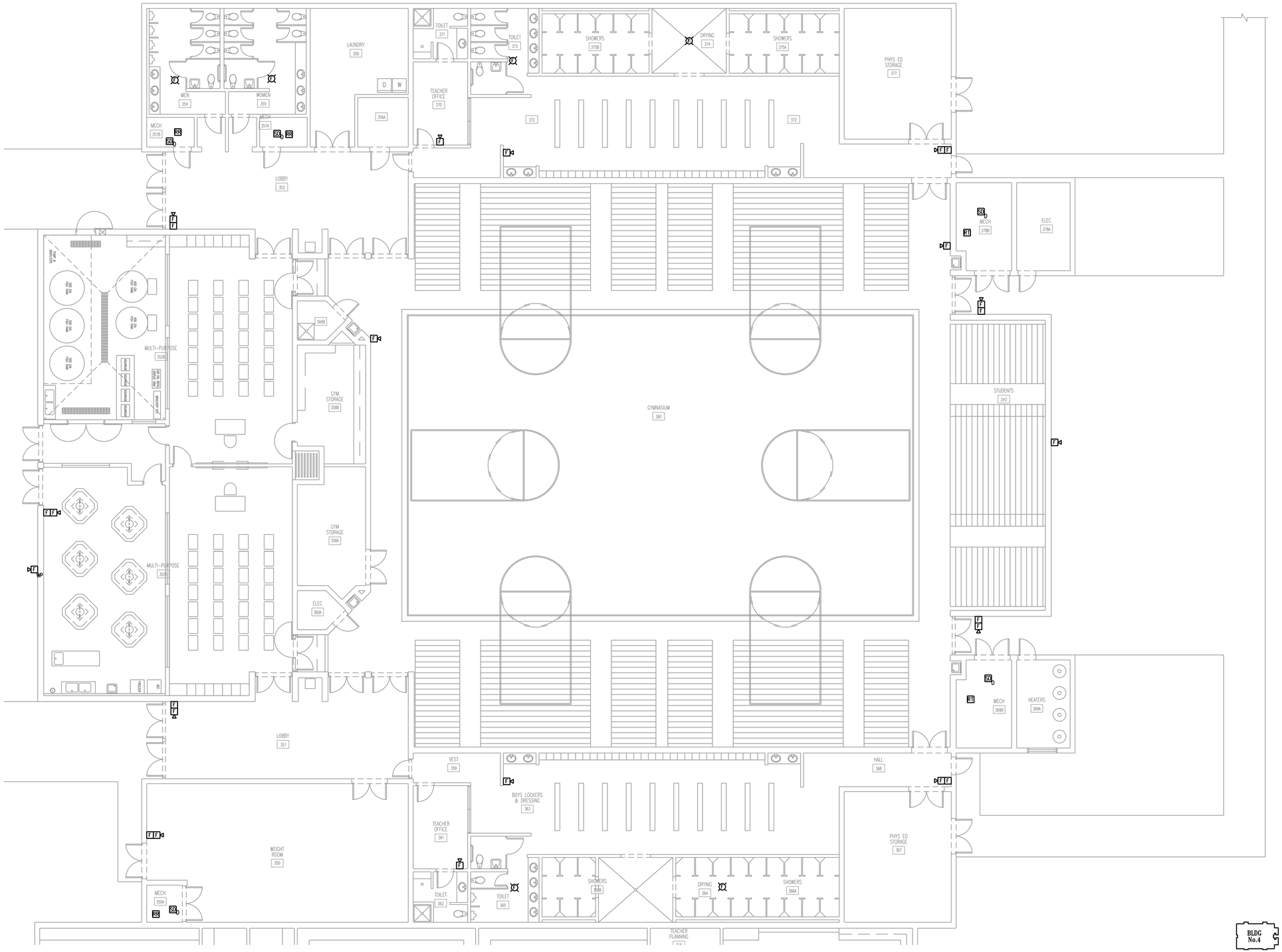
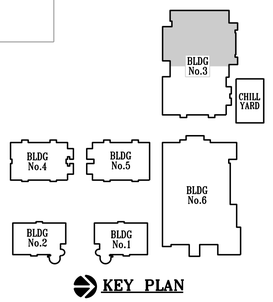


PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - FIRE ALARM

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



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3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

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600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E3-3A.DWG

Drawing Number:

P2-E3-3a

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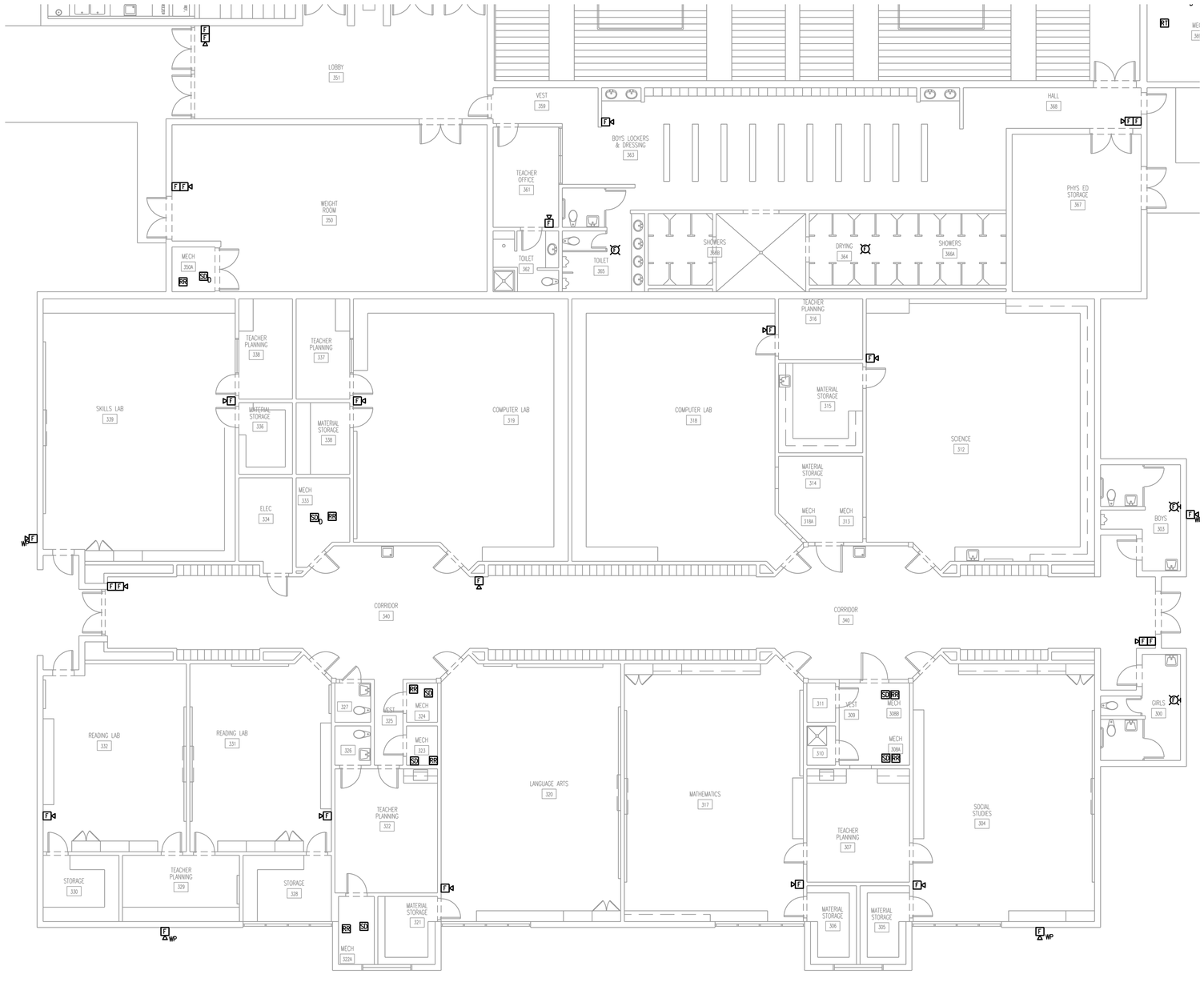
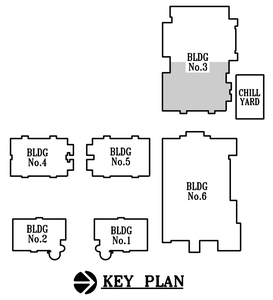


PHASE 2 - BUILDING 3 PARTIAL PLAN - NEW - FIRE ALARM

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

NOT FOR CONSTRUCTION



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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

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600 S. ORLANDO AVE.
MAITLAND, FL. 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 3
PARTIAL PLAN - NEW -
FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E3-3B.DWG

Drawing Number:

P2-E3-3b

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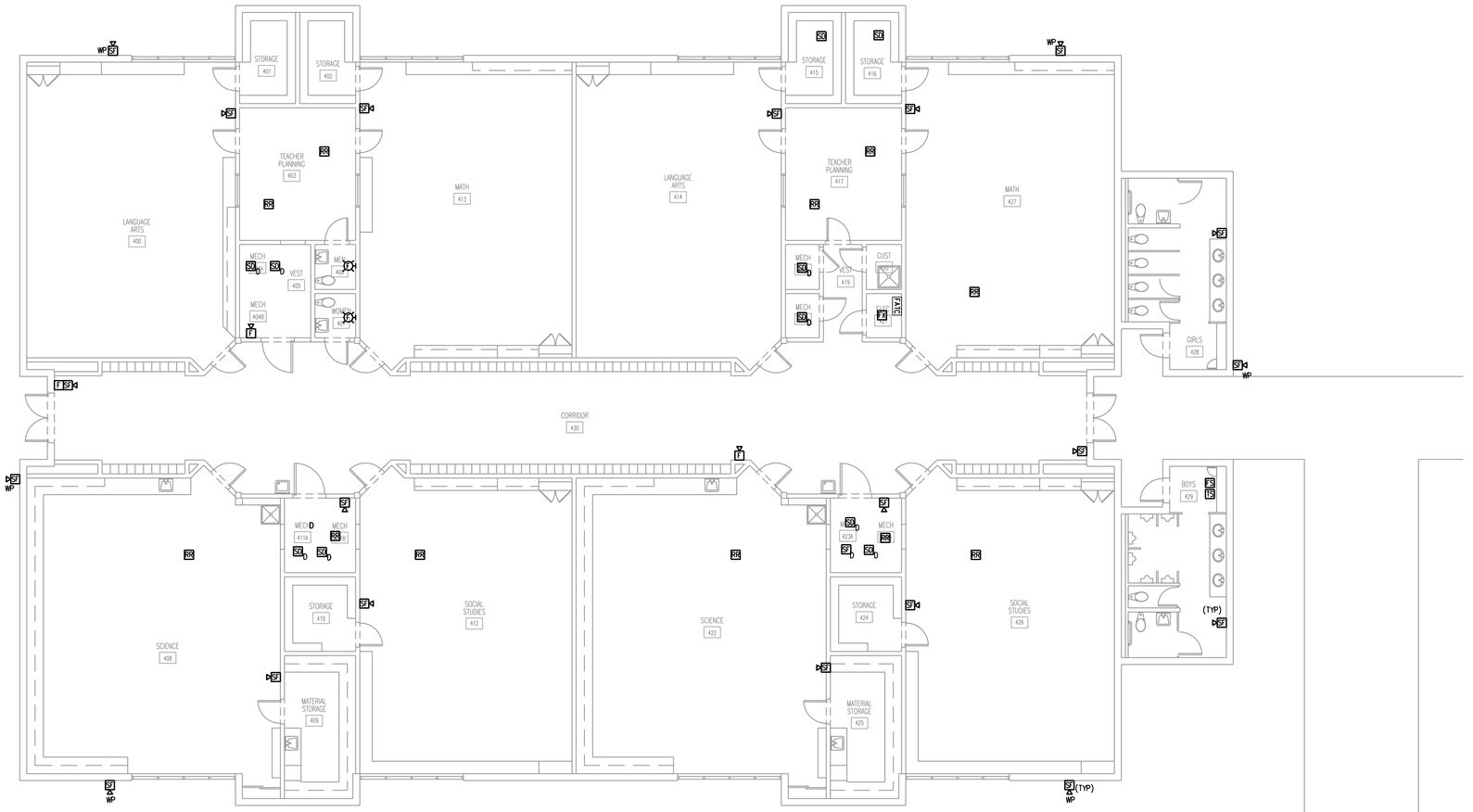
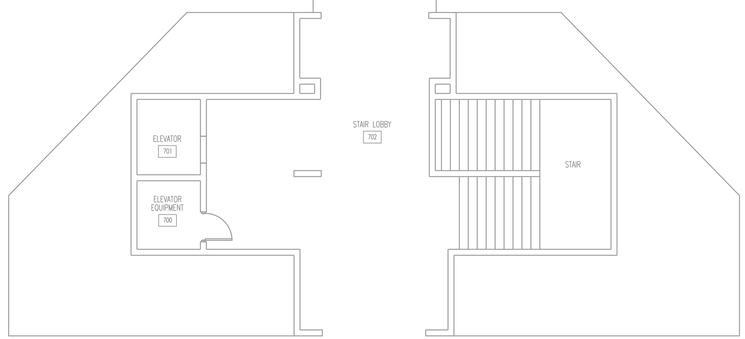
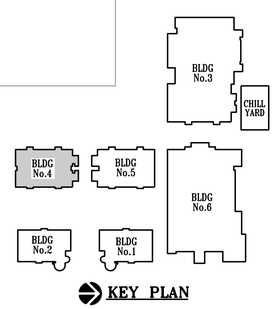




NOT FOR CONSTRUCTION

PHASE 2 - BUILDING 4 1ST FLOOR PLAN - NEW - FIRE ALARM

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



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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

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3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 4
1ST FLOOR PLAN - NEW -
FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E3-4A.DWG

Drawing Number:

P2-E3-4a

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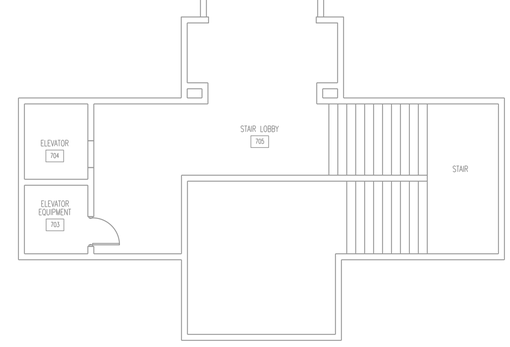
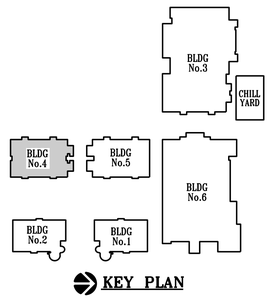


NOT FOR CONSTRUCTION

PHASE 2 - BUILDING 4 2ND FLOOR PLAN - NEW - FIRE ALARM

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



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MAITLAND, FL. 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 4
2ND FLOOR PLAN - NEW -
FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E3-4B.DWG

Drawing Number:

P2-E3-4b

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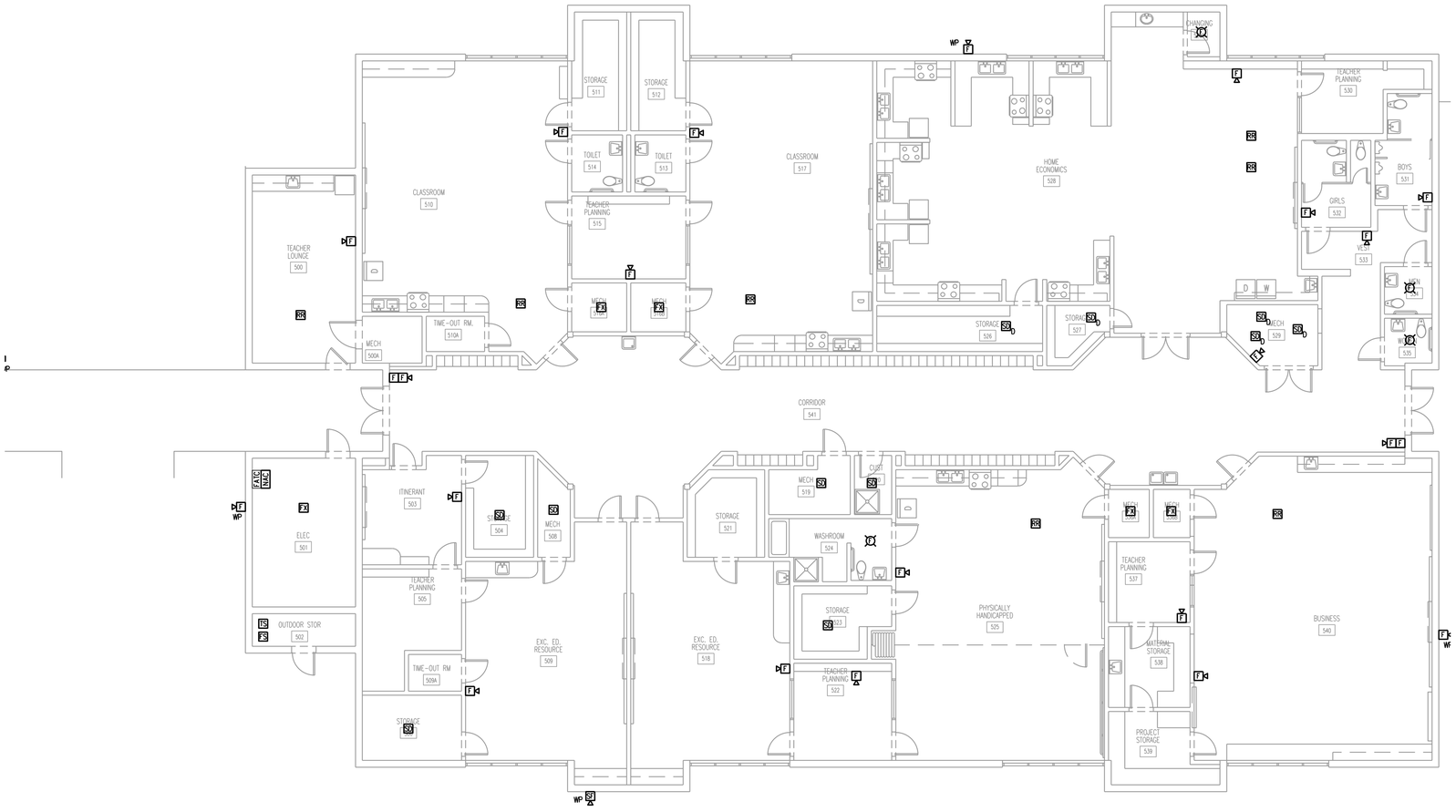
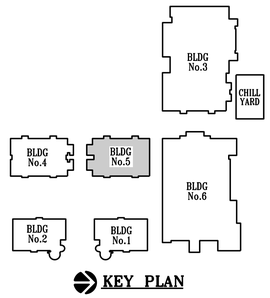


PHASE 2 - BUILDING 5 1ST FLOOR PLAN - NEW - FIRE ALARM

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



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Project Title:

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Seal:

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MAITLAND, FL. 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 5
1ST FLOOR PLAN - NEW -
FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E3-5A.DWG

Drawing Number:

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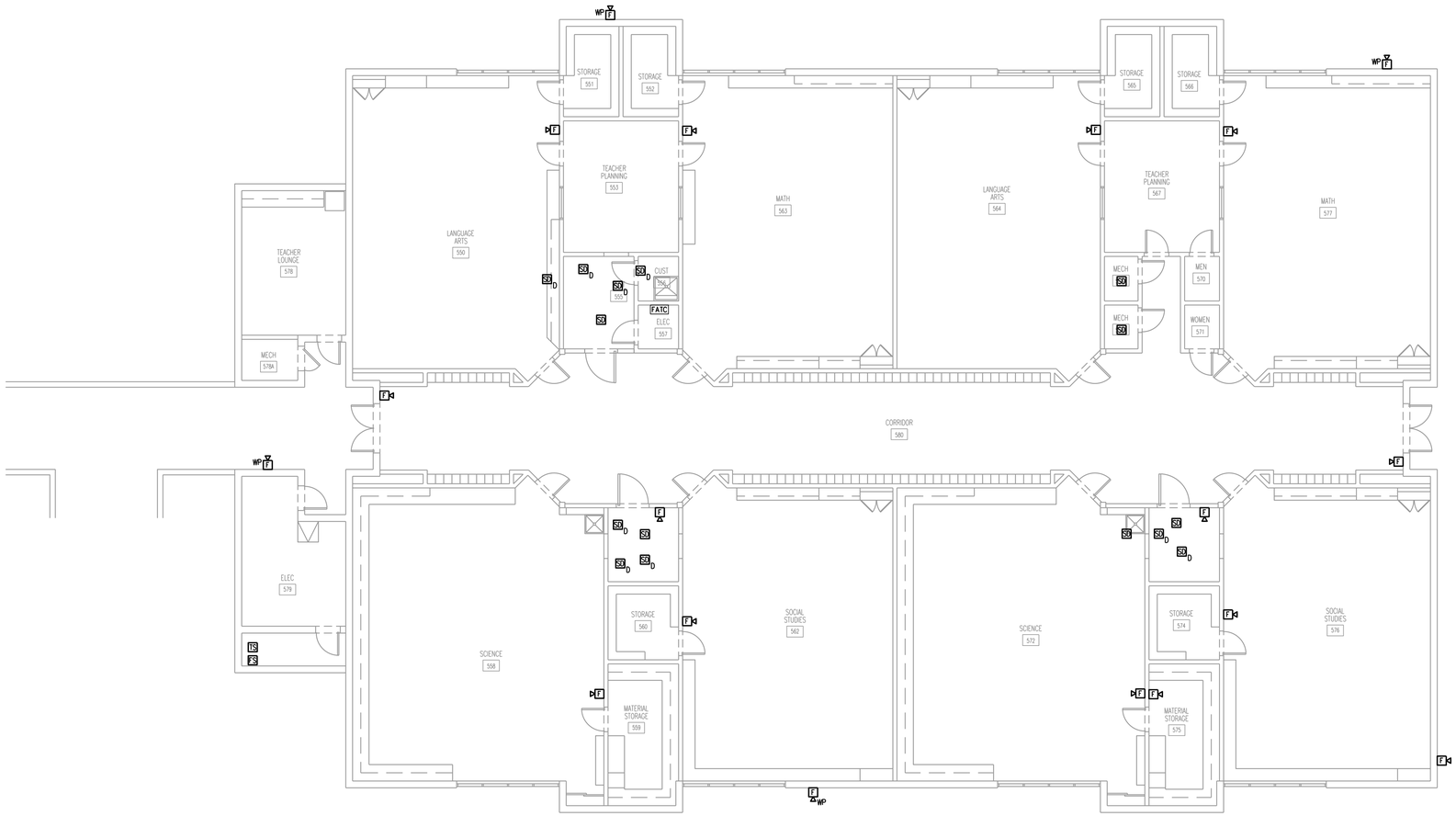
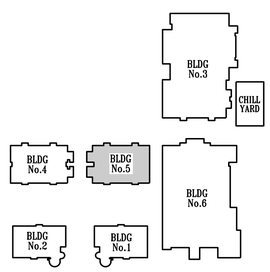
PRINT DATE:8/26/2022 3:15 PM SAVE DATE:8/25/2022 12:16 PM FILE LOCATION:J:\22 JOBS\22103 - SLPS FGMS AHU RETROFIT\DWGS\22103P2-E3-5A.DWG



PHASE 2 - BUILDING 5 2ND FLOOR PLAN - NEW - FIRE ALARM

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

NOT FOR CONSTRUCTION



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No.	Date	Description

Client:

St. Lucie PUBLIC SCHOOLS

Project Title:

FGMS AHU RETROFIT
3201 S 25TH ST
FORT PIERCE, FL 34981

Seal:

KYRIAKOS G. LIATSOS, P.E.
600 S. ORLANDO AVE.
MAITLAND, FL 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 5
2ND FLOOR PLAN - NEW -
FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E3-5B.DWG

Drawing Number:

P2-E3-5b

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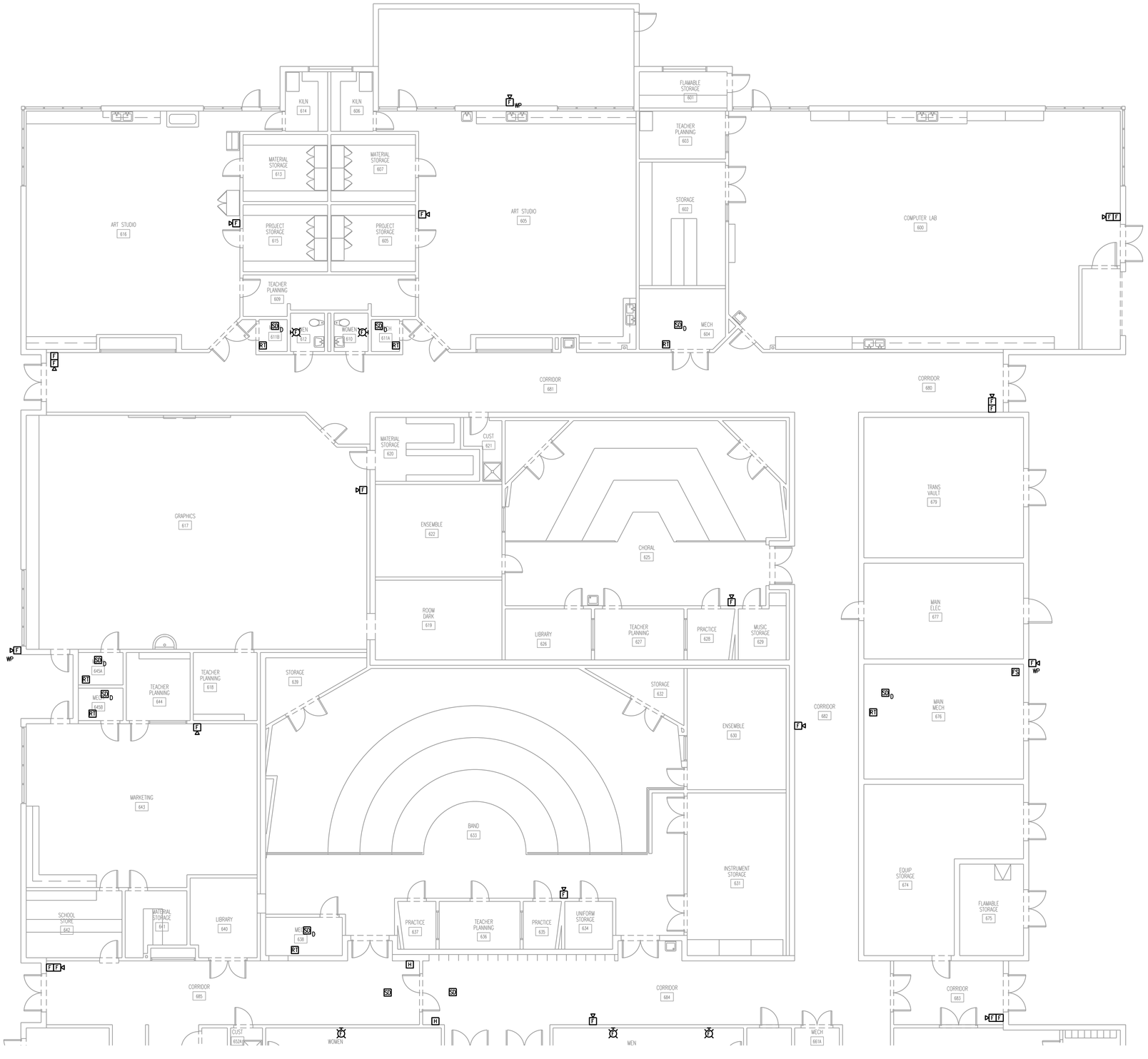
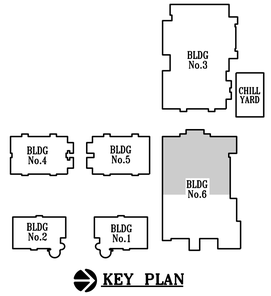


PHASE 2 - BUILDING 6 PARTIAL PLAN - NEW - FIRE ALARM

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

NOT FOR CONSTRUCTION



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MAITLAND, FL 32751
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Sheet Title:
PHASE 2 - BUILDING 6 PARTIAL PLAN - NEW - FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E3-6A.DWG

Drawing Number:

P2-E3-6a

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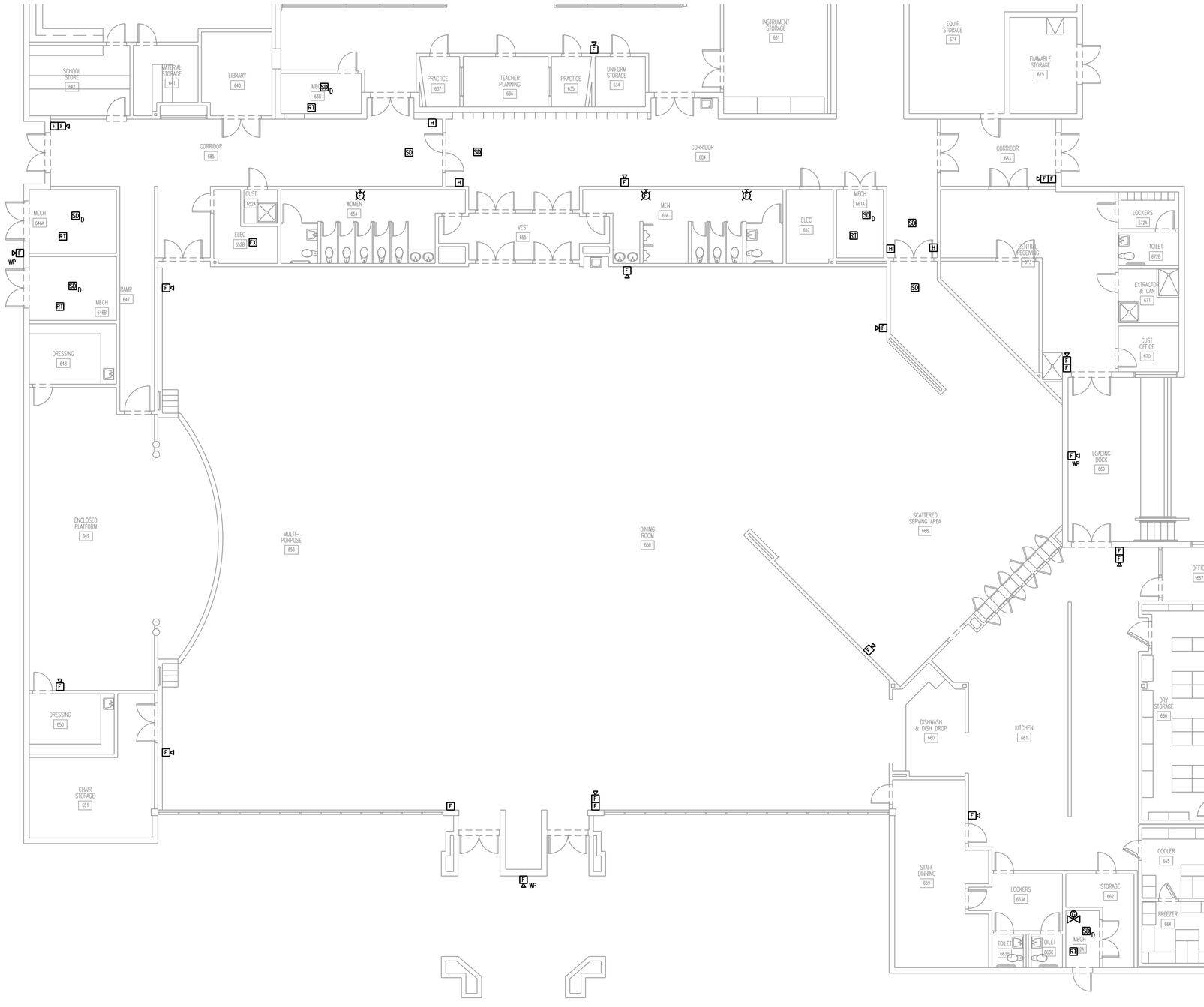
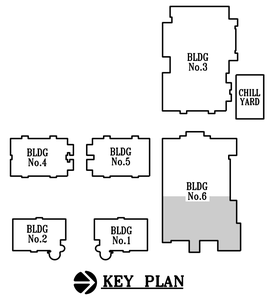


PHASE 2 - BUILDING 6 PARTIAL PLAN - NEW - FIRE ALARM

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

NOT FOR CONSTRUCTION



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Seal:

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MAITLAND, FL. 32751
FL. REG. NO.: PE66402

Sheet Title:
PHASE 2 - BUILDING 6
PARTIAL PLAN - NEW -
FIRE ALARM

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103P2-E3-6B.DWG

Drawing Number:

P2-E3-6b

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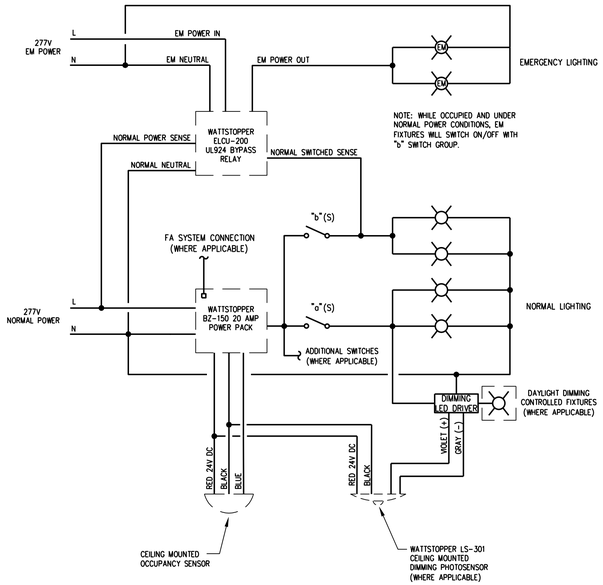
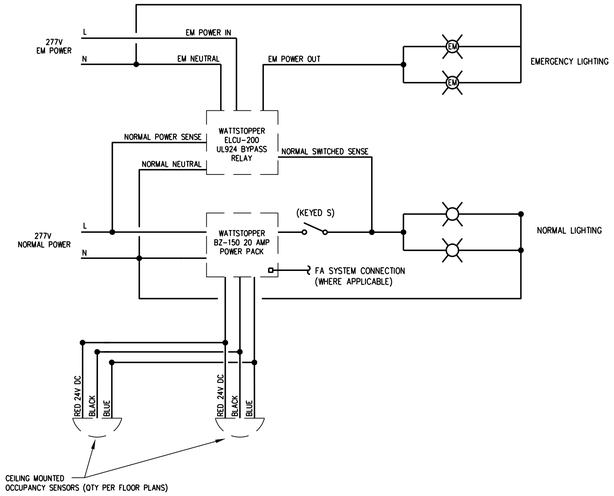


1 E501 TYPICAL "OS" MULTI-SWITCH WITH EMERGENCY RELAY WIRING DIAGRAM

N.T.S.



2 E501 TYPICAL CORRIDOR "OS" WIRING DIAGRAM (MULTI SENSOR)

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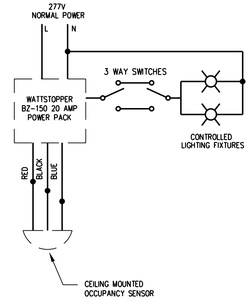

3 E501 TYPICAL 3 WAY SWITCH "OS" WIRING DIAGRAM

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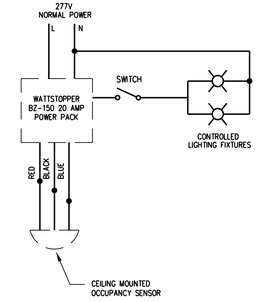

4 E501 TYPICAL SINGLE SWITCH "OS" SENSOR WIRING DIAGRAM

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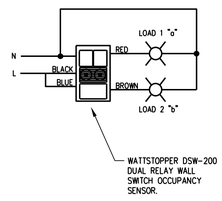

5 E501 DUAL RELAY "OS" WALL SWITCH WIRING DIAGRAM

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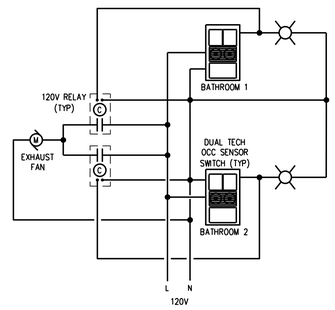

6 E501 TIME DELAY EXHAUST FAN OPERATION "OS" WALL SWITCH WIRING DIAGRAM

N.T.S.

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Sheet Title:
DETAILS - ELECTRICAL

Date:	08/26/2022
Scale:	AS NOTED
Drawn By:	AAK
Checked By:	KGL
Project Number:	22103
File Date:	4/19/2019
File Name:	22103E5-1.DWG

Drawing Number:

E5-1

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